

Scoring Matrix Multi Band Subscriber Units

Instructions:

Evaluate each criteria for radios within each of the streams being bid on (single band, dual band, multiband, DVRS)
For multi band radios, each bid should have one radio submission for all three bands and as such, all three bands criteria are evaluated.

Comparitive scores will be calculated as per the following:

If there is a comparative score to be evaluated, SUs from each respondent are scored against all other SUs section in the proposed band(s). The score(s) for each respondent is/are ranked highest to lowest based on value provided (related to the spec) and then compared amongst each other to provide a comparative score. This ensures that the total points awarded consistently across bids, radio types and streams.

Section 8 Scoring Examples

Multi Band:

Ex 1. Preferably should exceed Inter modulation rejection - 75 dB

Inter Modulation rejection Points Awarded = Max Points x

$$\frac{\{(\text{InterMod}_{\text{Rated SU}} - \text{InterMod}_{\text{Least Reject. SU}})\}}{(\text{InterMod}_{\text{MostReject. SU}} - \text{InterMod}_{\text{Least Reject. SU}})}$$

Fill in the values as appropriate in the red outlined boxes

6 Mandatory General Equipment Specifications

6.7 Quality

6.7.1.1	Offeror should be certified ISO 27001	<p>20 points awarded to the vendor which is certified ISO 27001</p> <p>0 points awarded to the vendor which is not certified ISO 27001</p>		
Article Score (Max 20 points)			=	20

6.8 Licenses

6.8.1.1	Radio equipment should have the capability to have their options and features be able to be transferred to another radio of same make and model during the minimum useful lifespan of the original radio.	<p>12 points awarded if the radio has the capability to have their options and features transferred to another radio of the same make and model during the useful lifespan of the original radio</p> <p>6 points awarded if the radio has the capability to have their options and features transferred to only a direct replacement radio either under warranty or paid repair</p> <p>0 points awarded if the radio does not have the capability of transferring their options and features to another radio or replacement radio</p>		
Article Score (Max 12 points)			=	12

6.8.2	Excluding new features or capabilities, Offeror should indicate if the proposed radio equipment is eligible for firmware/software upgrades at no cost to the Authorised User for the lifecycle of the radio.	<p>18 points awarded if the proposed radio equipment is eligible for firmware/software upgrades at no cost to the Authorised User for the lifecycle of the radio</p> <p>0 points awarded if the proposed radio equipment is eligible for firmware/software upgrades at no cost to the Authorised User for less than the lifecycle of the radio</p> <p>Points will be awarded for each piece of radio equipment. Scores from each of the 3 iterations will be added and divided by 3 to determine the overall Article Score.</p> <table border="1" data-bbox="667 527 1279 709"> <tr> <td>Portable Score</td> <td>=</td> <td>18</td> </tr> <tr> <td>Mobile Score</td> <td>=</td> <td>18</td> </tr> <tr> <td>Desk Mounted Score</td> <td>=</td> <td>18</td> </tr> <tr> <td colspan="3" style="text-align: center;">(Portable + Mobile + Desk) / 3</td> </tr> <tr> <td>Article Score (Max 18 points)</td> <td>=</td> <td></td> </tr> </table>	Portable Score	=	18	Mobile Score	=	18	Desk Mounted Score	=	18	(Portable + Mobile + Desk) / 3			Article Score (Max 18 points)	=		18
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Article Score (Max 18 points)	=																	
6.9 Identification																		
6.9.1.1	Radio equipment should have the option to add an RFID tag.	<p>6 points awarded if the radio can be supplied with an RFID tag.</p> <p>0 points awarded if the radio cannot be supplied with an RFID tag.</p> <p>Points will be awarded for each of the 3 radio equipment types. Scores from each of the 3 iterations will be added and divided by 3 to determine the overall Article Score.</p> <table border="1" data-bbox="667 1031 1279 1220"> <tr> <td>Portable Score</td> <td>=</td> <td>6</td> </tr> <tr> <td>Mobile Score</td> <td>=</td> <td>6</td> </tr> <tr> <td>Desk Mounted Score</td> <td>=</td> <td>6</td> </tr> <tr> <td colspan="3" style="text-align: center;">(Portable + Mobile + Desk) / 3</td> </tr> <tr> <td>Article Score (Max 6 points)</td> <td>=</td> <td></td> </tr> </table>	Portable Score	=	6	Mobile Score	=	6	Desk Mounted Score	=	6	(Portable + Mobile + Desk) / 3			Article Score (Max 6 points)	=		6
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(Portable + Mobile + Desk) / 3																		
Article Score (Max 6 points)	=																	
7 Mandatory Equipment Specifications																		
7.5 P25 Conventional Operation																		
7.5.6.1	The RSSI thresholds for the vote-scan algorithm should be adjustable using the radio configuration software.	<p>9 points awarded if the RSSI thresholds for the vote-scan algorithm can be adjusted using the radio configuration software</p> <p>0 points awarded if the RSSI thresholds for the vote-scan algorithm cannot be adjusted using the radio configuration software</p> <table border="1" data-bbox="667 1549 1279 1619"> <tr> <td>Article Score (Max 9 points)</td> <td>=</td> <td></td> </tr> </table>	Article Score (Max 9 points)	=		9												
Article Score (Max 9 points)	=																	
7.5.6.2	The radio should be configurable to enable the voted site to be displayed	<p>9 points awarded if the radio is configurable to enable the voted site to be displayed.</p> <p>0 points awarded if the radio is not configurable to enable the voted site to be displayed.</p> <table border="1" data-bbox="667 1801 1279 1871"> <tr> <td>Article Score (Max 9 points)</td> <td>=</td> <td></td> </tr> </table>	Article Score (Max 9 points)	=		9												
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7.8 Encryption Keys																		

7.8.1.1	<p>The Keys should be stored within a cryptographic module in the radio equipment in a manner which conforms at FIPS 140-2 Level 2 or 3 security.</p>	<p>24 points awarded if the Keys are stored within a cryptographic module in the proposed Radio equipment in a manner which conforms at FIPS 140-2 Level 3.</p> <p>18 points awarded if the Keys are stored within a cryptographic module in the proposed Radio equipment in a manner which conforms at FIPS 140-2 Level 2.</p> <p>0 points awarded if the Keys are stored within a cryptographic module in the proposed Radio equipment in a manner which conforms at FIPS 140-2 Level 1.</p>	<table border="1"> <tr> <td colspan="2"></td> <td style="background-color: #00FF00; text-align: center;">24</td> </tr> <tr> <td colspan="2" style="text-align: right;">Article Score (Max 24 points)</td> <td style="text-align: center;">=</td> </tr> </table>			24	Article Score (Max 24 points)		=									
		24																
Article Score (Max 24 points)		=																
7.8.2.1	<p>Mobile Radio should be able to allow connection of the radio programming cable and the Key Fill Device cable via the control head, or connect through a cable that can be installed to permit accessibility from the driver's side of the vehicle.</p>	<p>10 points awarded if the mobile radio allows connection of the radio programming cable and the Key Fill Device cable via the control head</p> <p>5 points awarded if the mobile radio allows connection of the radio programming cable and the Key Fill Device cable through a cable that can be installed to permit accessibility from the driver's side of the vehicle.</p> <p>0 points awarded if the radio cannot allow connection of the radio programming cable and the Key Fill Device cable via the control head, or connect through a cable that can be installed to permit accessibility from the driver's side of the vehicle.</p>	<table border="1"> <tr> <td colspan="2"></td> <td style="background-color: #00FF00; text-align: center;">10</td> </tr> <tr> <td colspan="2" style="text-align: right;">Article Score (Max 10 points)</td> <td style="text-align: center;">=</td> </tr> </table>			10	Article Score (Max 10 points)		=									
		10																
Article Score (Max 10 points)		=																
7.8.3.1	<p>At least 64 or more unique active and 64 or more unique inactive traffic encryption keys should be supported in radio equipment units.</p>	<p>6 points awarded if 64 or more unique active and 64 or more unique inactive traffic encryption keys are supported in each proposed SU.</p> <p>0 points awarded if 64 unique active and 64 unique inactive traffic encryption keys are supported in each proposed SU.</p> <p>Points will be awarded for each of the 3 band iterations for each piece of radio equipment. Scores from each of the 3 iterations will be added and divided by 3 to determine the overall Article Score.</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: right;">Portable Score</td> <td style="text-align: center;">=</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: right;">Mobile Score</td> <td style="text-align: center;">=</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: right;">Desk Mounted Score</td> <td style="text-align: center;">=</td> <td style="text-align: center;">6</td> </tr> </table> <p style="text-align: center;">(Portable + Mobile + Desk) / 3</p>	Portable Score	=	6	Mobile Score	=	6	Desk Mounted Score	=	6	<table border="1"> <tr> <td colspan="2"></td> <td style="background-color: #00FF00; text-align: center;">6</td> </tr> <tr> <td colspan="2" style="text-align: right;">Article Score (Max 6 points)</td> <td style="text-align: center;">=</td> </tr> </table>			6	Article Score (Max 6 points)		=
Portable Score	=	6																
Mobile Score	=	6																
Desk Mounted Score	=	6																
		6																
Article Score (Max 6 points)		=																
7.12 Over-The-Air-Programming (OTAP)																		

7.12.2	<p>Offeror should describe the manner and medium that the OTAP process will occur (conventional, trunking, Wifi, Bluetooth, NFC etc)</p>	<p>1 point awarded if the Offeror describes the manner and medium that the OTAP process will occur for each radio technology: conventional, trunking, Wifi, Bluetooth, NFC</p> <p>0 points awarded if the Offeror does not describe the manner and medium that the OTAP process will occur (conventional, trunking, Wifi, Bluetooth, NFC etc)</p> <p>Points will be awarded for each piece of radio equipment. Scores from each of the 3 iterations will be added and divided by 3 to determine the overall Article Score.</p> <table border="1" data-bbox="667 682 1219 800"> <tr> <td>Portable Score</td> <td>=</td> <td>5</td> </tr> <tr> <td>Mobile Score</td> <td>=</td> <td>5</td> </tr> <tr> <td>Desk Mounted Score</td> <td>=</td> <td>5</td> </tr> </table> <table border="1" data-bbox="667 800 1279 871"> <tr> <td colspan="2">(Portable + Mobile + Desk) / 3</td> <td></td> </tr> <tr> <td>Article Score (Max 5 points)</td> <td>=</td> <td></td> </tr> </table>	Portable Score	=	5	Mobile Score	=	5	Desk Mounted Score	=	5	(Portable + Mobile + Desk) / 3			Article Score (Max 5 points)	=		5
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Article Score (Max 5 points)	=																	
7.12.3	<p>OTAP process should not apply radio programming changes, to the radio equipment, without notifying the radio equipment user of any impacts to radio equipment's operations and explicit radio equipment user intervention at the time of change if the OTAP is being executed over the radio network</p>	<p>6 points awarded if the proposed OTAP process does not apply radio programming changes, to the radio equipment, without notifying the radio equipment user of any impacts to radio equipment's operations and explicit radio equipment user intervention at the time of change if the OTAP is being executed over the radio network</p> <p>0 points awarded if the proposed OTAP process does apply radio programming changes, to the radio equipment, without notifying the radio equipment user of any impacts to radio equipment's operations and explicit radio equipment user intervention at the time of change if the OTAP is being executed over the radio network</p> <p>Points will be awarded for each piece of radio equipment. Scores from each of the 3 iterations will be added and divided by 3 to determine the overall Article Score.</p> <table border="1" data-bbox="667 1455 1219 1572"> <tr> <td>Portable Score</td> <td>=</td> <td>6</td> </tr> <tr> <td>Mobile Score</td> <td>=</td> <td>6</td> </tr> <tr> <td>Desk Mounted Score</td> <td>=</td> <td>6</td> </tr> </table> <table border="1" data-bbox="667 1572 1279 1642"> <tr> <td colspan="2">(Portable + Mobile + Desk) / 3</td> <td></td> </tr> <tr> <td>Article Score (Max 6 points)</td> <td>=</td> <td></td> </tr> </table>	Portable Score	=	6	Mobile Score	=	6	Desk Mounted Score	=	6	(Portable + Mobile + Desk) / 3			Article Score (Max 6 points)	=		6
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7.12.4	The OTAP application should maintain a log of all changes made, including who made the changes, radio(s) affected and configuration parameters affected.	<p>6 points awarded if the proposed OTAP application maintains a log of all changes made, including who made the changes, radio(s) affected and configuration parameter(s) affected.</p> <p>0 points awarded if the proposed OTAP application does not maintain a log of all changes made, including who made the changes, radio(s) affected and configuration parameter(s) affected.</p> <p>Points will be awarded for each piece of radio equipment. Scores from each of the 3 iterations will be added and divided by 3 to determine the overall Article Score.</p> <table border="1" data-bbox="667 583 1222 695"> <tr> <td>Portable Score</td> <td>=</td> <td>6</td> </tr> <tr> <td>Mobile Score</td> <td>=</td> <td>6</td> </tr> <tr> <td>Desk Mounted Score</td> <td>=</td> <td>6</td> </tr> </table> <table border="1" data-bbox="667 699 1279 766"> <tr> <td colspan="2" style="text-align: center;">(Portable + Mobile + Desk) / 3</td> </tr> <tr> <td>Article Score (Max 6 points)</td> <td style="text-align: center;">=</td> </tr> </table>	Portable Score	=	6	Mobile Score	=	6	Desk Mounted Score	=	6	(Portable + Mobile + Desk) / 3		Article Score (Max 6 points)	=	6
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Article Score (Max 6 points)	=															
7.14.1.1	The same radio programming software should be used to provision Portable, Mobile, and Desk Mount Radios.	<p>10 points awarded if the same radio programming software is used to provision Portable, Mobile, and Desk Mount Radios.</p> <p>0 points awarded if the same radio programming software cannot be used to provision Portable, Mobile, and Desk Mount Radios.</p> <table border="1" data-bbox="667 1014 1279 1087"> <tr> <td>Article Score (Max 10 points)</td> <td style="text-align: center;">=</td> </tr> </table>	Article Score (Max 10 points)	=	10											
Article Score (Max 10 points)	=															
7.14.8.2.1	Offeror should describe the database type proposed. If the programming software utilizes a SQL database, the Offeror must specify if it allows for external query and connection.	<p>6 points awarded if the Offeror describes the database type proposed and if the programming software utilizes a SQL database and the Offeror specifies that it allows for external query and connection.</p> <p>4 points awarded if the Offeror describes the database type proposed but does not describe if the programming software utilizes a SQL database and the Offeror does not specify that it allows for external query and connection.</p> <p>0 points awarded if the offeror does not describe the database type proposed and if the programming software utilizes a SQL database and specifies if it allows for external query and connection.</p> <table border="1" data-bbox="667 1556 1279 1623"> <tr> <td>Article Score (Max 6 Points)</td> <td style="text-align: center;">=</td> </tr> </table>	Article Score (Max 6 Points)	=	6											
Article Score (Max 6 Points)	=															

8 Band Specific Requirements

****NOTE** Refer to Section 4.2.2.1: For single band Radio equipment, the Offeror must supply radio equipment capable of single band operation in all 3 bands as identified in Section 8 of this SOR.**

Thus: 7/800 must meet Section 8.2	UHF must meet Section 8.3	VHF must meet Section 8.4
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8.2 768-776 MHz, 798-806 MHz, 806-824 MHz and 851-869 MHz (7/800) Band Specific SU Requirements

8.2.3.3		Portable Radio Radio Frequency (RF) - Receiver Specifications	
8.2.3.3.1.1	Preferably should exceed sensitivity (digital) 0.25 μv (-119 dBm) 5% BER	<p>10 points awarded to the most sensitive portable radio in category.</p> <p>0 points awarded for the least sensitive portable radio in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Sensitivity Points Awarded = Max Points x $\{(Sensitivity_{Rated\ SU} - Sensitivity_{Least\ Sens.\ SU}) / (Sensitivity_{Most\ Sens.\ SU} - Sensitivity_{Least\ Sens.\ SU})\}$</p>	
		-120	X = Rated SU
		-120	Y = Most Value
		-119	Z = Least Value
		10	Points awarded
		Article Score (Max 10 Points)	10
8.2.3.3.2.1	Preferably should exceed inter modulation rejection -70 dB (TIA/EIA 102)	<p>10 points awarded to the portable radio with the highest inter modulation rejection in category.</p> <p>0 points awarded for the portable radio with the lowest inter modulation rejection in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Inter Modulation rejection Points Awarded = Max Points x $\{(InterMod_{Rated\ SU} - InterMod_{Least\ Reject.\ SU}) / (InterMod_{Most\ Reject.\ SU} - InterMod_{Least\ Reject.\ SU})\}$</p>	
		-71	X = Rated SU
		-71	Y = Most Value
		-70	Z = Least Value
		10	Points awarded
		Article Score (Max 10 Points)	10
8.2.3.3.3.1	Preferably should exceed adjacent channel selectivity -60 dB (TIA/EIA 102)	<p>10 points awarded to the portable radio with the highest adjacent channel selectivity in category.</p> <p>0 points awarded to the portable radio with the lowest adjacent channel selectivity in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Adjacent channel selectivity Points Awarded = Max Points x $\{(Adjacency_{Rated\ SU} - Adjacency_{Least\ Adj.\ SU}) / (Adjacency_{Most\ Adj.\ SU} - Adjacency_{Least\ Adj.\ SU})\}$</p>	
		-61	X = Rated SU
		-61	Y = Most Value

			-60	Z = Least Value	
			10	Points awarded	
			Article Score (Max 10 Points)		=
					10
8.2.3.3.4.1	Preferably should exceed spurious response rejection -70 dB	<p>10 points awarded to the portable radio with the highest spurious response rejection in category.</p> <p>0 points awarded to the portable radio with the lowest spurious response rejection in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Spurious response rejection Points Awarded = Max Points x $\{(Rejection_{Rated\ SU} - Rejection_{Least\ Reject\ SU}) / (Rejection_{Highest\ Reject\ SU} - Rejection_{Least\ Reject\ SU})\}$</p>			
			-71	X = Rated SU	
			-71	Y = Most Value	
			-70	Z = Least Value	
			10	Points awarded	
			Article Score (Max 10 Points)		=
					10
Overall 7/800 Portable (Sensitivity+Inter Mod.+Adj. Ch. Select+Spurious Resp.) Score (Max Pts. 40):					40
8.2.4.3	Mobile Radio Radio Frequency (RF) - Receiver Specifications				
8.2.4.3.1.1	Preferably should exceed sensitivity (digital) 0.25 μv (-119 dBm) 5% BER	<p>10 points awarded to the most sensitive mobile radio in category.</p> <p>0 points awarded for the least sensitive mobile radio in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Sensitivity Points Awarded = Max Points x $\{(Sensitivity_{Rated\ SU} - Sensitivity_{Least\ Sens.\ SU}) / (Sensitivity_{Most\ Sens.\ SU} - Sensitivity_{Least\ Sens.\ SU})\}$</p>			
			-120	X = Rated SU	
			-120	Y = Most Value	
			-119	Z = Least Value	
			10	Points awarded	
			Article Score (Max 10 Points)		=
					10

8.2.4.3.2.1	<p>Preferably should exceed inter modulation rejection -75 dB (TIA/EIA 102)</p>	<p>10 points awarded to the mobile radio with the highest inter modulation rejection in category. 0 points awarded for the mobile radio with the lowest inter modulation rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Inter Modulation rejection Points Awarded = Max Points x $\{(InterMod_{Rated\ SU} - InterMod_{Least\ Reject.\ SU}) / (InterMod_{Most\ Reject.\ SU} - InterMod_{Least\ Reject.\ SU})\}$</p> <table border="1" data-bbox="870 531 1279 684"> <tr><td>-76</td><td>X = Rated SU</td></tr> <tr><td>-76</td><td>Y = Most Value</td></tr> <tr><td>-75</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 688 1409 758"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-76	X = Rated SU	-76	Y = Most Value	-75	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
-76	X = Rated SU													
-76	Y = Most Value													
-75	Z = Least Value													
10	Points awarded													
Article Score (Max 10 Points)		=	10											
8.2.4.3.3.1	<p>Preferably should exceed Adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the mobile radio with the highest adjacent channel selectivity in category. 0 points awarded to the mobile radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Adjacent channel selectivity Points Awarded = Max Points x $\{(Adjacency_{Rated\ SU} - Adjacency_{Least\ Adj.\ SU}) / (Adjacency_{Most\ Adj.\ SU} - Adjacency_{Least\ Adj.\ SU})\}$</p> <table border="1" data-bbox="870 1140 1279 1293"> <tr><td>-61</td><td>X = Rated SU</td></tr> <tr><td>-61</td><td>Y = Most Value</td></tr> <tr><td>-60</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 1297 1409 1367"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
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Article Score (Max 10 Points)		=	10											
8.2.4.3.4.1	<p>Preferably should exceed spurious response rejection -80 dB</p>	<p>10 points awarded to the mobile radio with the highest spurious response rejection in category. 0 points awarded to the mobile radio with the lowest spurious response rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Spurious response rejection Points Awarded = Max Points x $\{(Rejection_{Rated\ SU} - Rejection_{Least\ Reject\ SU}) / (Rejection_{Highest\ Reject\ SU} - Rejection_{Least\ Reject\ SU})\}$</p> <table border="1" data-bbox="870 1770 1279 1923"> <tr><td>-81</td><td>X = Rated SU</td></tr> <tr><td>-81</td><td>Y = Most Value</td></tr> <tr><td>-80</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table>	-81	X = Rated SU	-81	Y = Most Value	-80	Z = Least Value	10	Points awarded				
-81	X = Rated SU													
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-80	Z = Least Value													
10	Points awarded													

8.2.5.3.3.1	<p>Preferably should exceed adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the desk-mounted radio with the highest adjacent channel selectivity in category. 0 points awarded to the desk-mounted radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: ((Desk-Mounted Unit Max. Points 10)</p> $\text{Adjacent channel selectivity Points Awarded} = \text{Max Points} \times \left\{ \frac{\text{Adjacency}_{\text{Rated SU}} - \text{Adjacency}_{\text{Least Adj. SU}}}{\text{Adjacency}_{\text{Most Adj. SU}} - \text{Adjacency}_{\text{Least Adj. SU}}} \right\}$ <table border="1" data-bbox="868 569 1279 722"> <tr><td>-61</td><td>X = Rated SU</td></tr> <tr><td>-61</td><td>Y = Most Value</td></tr> <tr><td>-60</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 722 1414 793"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
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10	Points awarded													
Article Score (Max 10 Points)		=	10											
8.2.5.3.4.1	<p>Preferably should exceed spurious response rejection -80 dB</p>	<p>10 points awarded to the desk-mounted radio with the highest spurious response rejection in category. 0 points awarded to the desk-mounted radio with the lowest spurious response rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Desk-Mounted Unit Max. Points 10)</p> $\text{Spurious response rejection Points Awarded} = \text{Max Points} \times \left\{ \frac{\text{Rejection}_{\text{Rated SU}} - \text{Rejection}_{\text{Least Reject SU}}}{\text{Rejection}_{\text{Highest Reject SU}} - \text{Rejection}_{\text{Least Reject SU}}} \right\}$ <table border="1" data-bbox="868 1220 1279 1373"> <tr><td>-81</td><td>X = Rated SU</td></tr> <tr><td>-81</td><td>Y = Most Value</td></tr> <tr><td>-80</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 1373 1414 1444"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-81	X = Rated SU	-81	Y = Most Value	-80	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
-81	X = Rated SU													
-81	Y = Most Value													
-80	Z = Least Value													
10	Points awarded													
Article Score (Max 10 Points)		=	10											
<p>Overall 7/800 Desk-Mounted (Sensitivity+Inter Mod.+Adj. Ch. Select+Spurious Resp.) Score (Max Points: 40)</p>			<p>40</p>											
<p>Overall 7/800 Band Receiver ((Overall 7/800 Portable + Overall 7/800 Mobile + Overall 7/800 Desk-Mounted) / 3) Score (Max Points: 40)</p>			<p>40</p>											
<p>8.3 380-430 MHz and 450-470 MHz (UHF) Band Specific SU Requirements</p>														
8.3.3.3	<p>Portable Radio Radio Frequency (RF) - Receiver Specifications</p>													

<p>8.3.3.3.1.1</p>	<p>Preferably should exceed sensitivity (digital) 0.25 μv (-119 dBm) 5% BER</p>	<p>10 points awarded to the most sensitive portable radio in category. 0 points awarded for the least sensitive portable radio in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Sensitivity Points Awarded = Max Points x $\{(Sensitivity_{Rated\ SU} - Sensitivity_{Least\ Sens.\ SU}) / (Sensitivity_{Most\ Sens.\ SU} - Sensitivity_{Least\ Sens.\ SU})\}$</p> <table border="1" data-bbox="868 541 1279 695"> <tr> <td>-120</td> <td>X = Rated SU</td> </tr> <tr> <td>-120</td> <td>Y = Most Value</td> </tr> <tr> <td>-119</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table> <p style="text-align: right;">10</p> <p>Article Score (Max 10 Points) =</p>	-120	X = Rated SU	-120	Y = Most Value	-119	Z = Least Value	10	Points awarded
-120	X = Rated SU									
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10	Points awarded									
<p>8.3.3.3.2.1</p>	<p>Preferably should exceed inter modulation rejection -70 dB (TIA/EIA 102)</p>	<p>10 points awarded to the portable radio with the highest inter modulation rejection in category. 0 points awarded for the portable radio with the lowest inter modulation rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Inter Modulation rejection Points Awarded = Max Points x $\{(InterMod_{Rated\ SU} - InterMod_{Least\ Reject.\ SU}) / (InterMod_{Most\ Reject.\ SU} - InterMod_{Least\ Reject.\ SU})\}$</p> <table border="1" data-bbox="868 1150 1279 1304"> <tr> <td>-71</td> <td>X = Rated SU</td> </tr> <tr> <td>-71</td> <td>Y = Most Value</td> </tr> <tr> <td>-70</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table> <p style="text-align: right;">10</p> <p>Article Score (Max 10 Points) =</p>	-71	X = Rated SU	-71	Y = Most Value	-70	Z = Least Value	10	Points awarded
-71	X = Rated SU									
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-70	Z = Least Value									
10	Points awarded									
<p>8.3.3.3.3.1</p>	<p>Preferably should exceed adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the portable radio with the highest adjacent channel selectivity in category. 0 points awarded to the portable radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Adjacent channel selectivity Points Awarded = Max Points x $\{(Adjacency_{Rated\ SU} - Adjacency_{Least\ Adj.\ SU}) / (Adjacency_{Most\ Adj.\ SU} - Adjacency_{Least\ Adj.\ SU})\}$</p> <table border="1" data-bbox="868 1766 1279 1919"> <tr> <td>-61</td> <td>X = Rated SU</td> </tr> <tr> <td>-61</td> <td>Y = Most Value</td> </tr> <tr> <td>-60</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded
-61	X = Rated SU									
-61	Y = Most Value									
-60	Z = Least Value									
10	Points awarded									

8.3.4.3.2.1	<p>Preferably should exceed inter modulation rejection -75 dB (TIA/EIA 102)</p>	<p>10 points awarded to the mobile radio with the highest inter modulation rejection in category. 0 points awarded for the mobile radio with the lowest inter modulation rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Inter Modulation rejection Points Awarded = Max Points x $\{(InterMod_{Rated\ SU} - InterMod_{Least\ Reject.\ SU}) / (InterMod_{MostReject.\ SU} - InterMod_{Least\ Reject.\ SU})\}$</p> <table border="1" data-bbox="870 533 1279 688"> <tr><td>-76</td><td>X = Rated SU</td></tr> <tr><td>-76</td><td>Y = Most Value</td></tr> <tr><td>-75</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 688 1414 758"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-76	X = Rated SU	-76	Y = Most Value	-75	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
-76	X = Rated SU													
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Article Score (Max 10 Points)		=	10											
8.3.4.3.3.1	<p>Preferably should exceed Adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the mobile radio with the highest adjacent channel selectivity in category. 0 points awarded to the mobile radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Adjacent channel selectivity Points Awarded = Max Points x $\{(Adjacency_{Rated\ SU} - Adjacency_{Least\ Adj.\ SU}) / (Adjacency_{Most\ Adj.\ SU} - Adjacency_{Least\ Adj.\ SU})\}$</p> <table border="1" data-bbox="870 1150 1279 1306"> <tr><td>-61</td><td>X = Rated SU</td></tr> <tr><td>-61</td><td>Y = Most Value</td></tr> <tr><td>-60</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 1306 1414 1379"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
-61	X = Rated SU													
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10	Points awarded													
Article Score (Max 10 Points)		=	10											
8.3.4.3.4.1	<p>Preferably should exceed spurious response rejection -80 dB</p>	<p>10 points awarded to the mobile radio with the highest spurious response rejection in category. 0 points awarded to the mobile radio with the lowest spurious response rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Spurious response rejection Points Awarded = Max Points x $\{(Rejection_{Rated\ SU} - Rejection_{Least\ Reject\ SU}) / (Rejection_{Highest\ Reject\ SU} - Rejection_{Least\ Reject\ SU})\}$</p> <table border="1" data-bbox="870 1772 1279 1927"> <tr><td>-81</td><td>X = Rated SU</td></tr> <tr><td>-81</td><td>Y = Most Value</td></tr> <tr><td>-80</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table>	-81	X = Rated SU	-81	Y = Most Value	-80	Z = Least Value	10	Points awarded				
-81	X = Rated SU													
-81	Y = Most Value													
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8.3.5.3.3.1	<p>Preferably should exceed adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the desk-mounted radio with the highest adjacent channel selectivity in category. 0 points awarded to the desk-mounted radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: ((Desk-Mounted Unit Max. Points 10)</p> $\text{Adjacent channel selectivity Points Awarded} = \text{Max Points} \times \left\{ \frac{(\text{Adjacency}_{\text{Rated SU}} - \text{Adjacency}_{\text{Least Adj. SU}})}{(\text{Adjacency}_{\text{Most Adj. SU}} - \text{Adjacency}_{\text{Least Adj. SU}})} \right\}$ <table border="1" data-bbox="868 562 1279 716"> <tr> <td>-61</td> <td>X = Rated SU</td> </tr> <tr> <td>-61</td> <td>Y = Most Value</td> </tr> <tr> <td>-60</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table> <p style="text-align: right;">10</p> <p>Article Score (Max 10 Points) =</p>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded
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10	Points awarded									
<p>Overall UHF Desk-Mounted (Sensitivity+Inter Mod.+Adj. Ch. Select+Spurious Resp.) Score (Max Points: 40)</p>		40								
<p>Overall UHF Band Reciever ((Overall UHF Portable + Overall UHF Mobile + Overall UHF Desk-Mounted) / 3) Score (Max Points: 40)</p>		40								
<p>8.4 138-144 MHz and 148-174 MHz (VHF) Band Specific SU Requirements</p>										
<p>8.4.3.3 Portable Radio Radio Frequency (RF) - Receiver Specifications</p>										

<p>8.4.3.3.1.1</p>	<p>Preferably should exceed sensitivity (digital) 0.22 μv (-120dBm) 5% BER</p>	<p>10 points awarded to the most sensitive portable radio in category. 0 points awarded for the least sensitive portable radio in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Sensitivity Points Awarded = Max Points x $\{(Sensitivity_{Rated\ SU} - Sensitivity_{Least\ Sens.\ SU}) / (Sensitivity_{Most\ Sens.\ SU} - Sensitivity_{Least\ Sens.\ SU})\}$</p> <table border="1" data-bbox="868 535 1279 688"> <tr><td>-120</td><td>X = Rated SU</td></tr> <tr><td>-120</td><td>Y = Most Value</td></tr> <tr><td>-119</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 688 1414 762"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-120	X = Rated SU	-120	Y = Most Value	-119	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
-120	X = Rated SU													
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Article Score (Max 10 Points)		=	10											
<p>8.4.3.3.2.1</p>	<p>Preferably should exceed inter modulation rejection -70 dB (TIA/EIA 102)</p>	<p>10 points awarded to the portable radio with the highest inter modulation rejection in category. 0 points awarded for the portable radio with the lowest inter modulation rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Inter Modulation rejection Points Awarded = Max Points x $\{(InterMod_{Rated\ SU} - InterMod_{Least\ Reject.\ SU}) / (InterMod_{Most\ Reject.\ SU} - InterMod_{Least\ Reject.\ SU})\}$</p> <table border="1" data-bbox="868 1150 1279 1304"> <tr><td>-71</td><td>X = Rated SU</td></tr> <tr><td>-71</td><td>Y = Most Value</td></tr> <tr><td>-70</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table> <table border="1" data-bbox="667 1304 1414 1377"> <tr><td colspan="2">Article Score (Max 10 Points)</td><td>=</td><td>10</td></tr> </table>	-71	X = Rated SU	-71	Y = Most Value	-70	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
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Article Score (Max 10 Points)		=	10											
<p>8.4.3.3.3.1</p>	<p>Preferably should exceed adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the portable radio with the highest adjacent channel selectivity in category. 0 points awarded to the portable radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Adjacent channel selectivity Points Awarded = Max Points x $\{(Adjacency_{Rated\ SU} - Adjacency_{Least\ Adj.\ SU}) / (Adjacency_{Most\ Adj.\ SU} - Adjacency_{Least\ Adj.\ SU})\}$</p> <table border="1" data-bbox="868 1766 1279 1917"> <tr><td>-61</td><td>X = Rated SU</td></tr> <tr><td>-61</td><td>Y = Most Value</td></tr> <tr><td>-60</td><td>Z = Least Value</td></tr> <tr><td>10</td><td>Points awarded</td></tr> </table>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded				
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		Article Score (Max 10 Points)		=	10								
8.4.3.3.4.1	Preferably should exceed spurious response rejection -70 dB	<p>10 points awarded to the portable radio with the highest spurious response rejection in category. 0 points awarded to the portable radio with the lowest spurious response rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Portable Unit Max. Points 10)</p> <p>Spurious response rejection Points Awarded = Max Points x $\{(Rejection_{Rated\ SU} - Rejection_{Least\ Reject\ SU}) / (Rejection_{Highest\ Reject\ SU} - Rejection_{Least\ Reject\ SU})\}$</p> <table border="1"> <tr> <td>-71</td> <td>X = Rated SU</td> </tr> <tr> <td>-71</td> <td>Y = Most Value</td> </tr> <tr> <td>-70</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>				-71	X = Rated SU	-71	Y = Most Value	-70	Z = Least Value	10	Points awarded
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10	Points awarded												
		Article Score (Max 10 Points)		=	10								
Overall VHF Portable (Sensitivity+Inter Mod.+Adj. Ch. Select+Spurious Resp.) Score (Max Pts. 40):					40								
8.2.4.3 Mobile Radio Radio Frequency (RF) - Receiver Specifications													
8.2.4.3.1.1	Preferably should exceed sensitivity (digital) 0.25 μv (-119 dBm) 5% BER	<p>10 points awarded to the most sensitive mobile radio in category. 0 points awarded for the least sensitive mobile radio in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Sensitivity Points Awarded = Max Points x $\{(Sensitivity_{Rated\ SU} - Sensitivity_{Least\ Sens.\ SU}) / (Sensitivity_{Most\ Sens.\ SU} - Sensitivity_{Least\ Sens.\ SU})\}$</p> <table border="1"> <tr> <td>-120</td> <td>X = Rated SU</td> </tr> <tr> <td>-120</td> <td>Y = Most Value</td> </tr> <tr> <td>-119</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>				-120	X = Rated SU	-120	Y = Most Value	-119	Z = Least Value	10	Points awarded
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<p>8.2.4.3.2.1</p>	<p>Preferably should exceed inter modulation rejection -75 dB (TIA/EIA 102)</p>	<p>10 points awarded to the mobile radio with the highest inter modulation rejection in category. 0 points awarded for the mobile radio with the lowest inter modulation rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Inter Modulation rejection Points Awarded = Max Points x $\{(InterMod_{Rated\ SU} - InterMod_{Least\ Reject.\ SU}) / (InterMod_{Most\ Reject.\ SU} - InterMod_{Least\ Reject.\ SU})\}$</p> <table border="1" data-bbox="870 543 1279 699"> <tr> <td>-76</td> <td>X = Rated SU</td> </tr> <tr> <td>-76</td> <td>Y = Most Value</td> </tr> <tr> <td>-75</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table> <table border="1" data-bbox="667 699 1414 772"> <tr> <td colspan="2">Article Score (Max 10 Points)</td> <td>=</td> <td>10</td> </tr> </table>	-76	X = Rated SU	-76	Y = Most Value	-75	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
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<p>8.2.4.3.3.1</p>	<p>Preferably should exceed Adjacent channel selectivity -60 dB (TIA/EIA 102)</p>	<p>10 points awarded to the mobile radio with the highest adjacent channel selectivity in category. 0 points awarded to the mobile radio with the lowest adjacent channel selectivity in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Adjacent channel selectivity Points Awarded = Max Points x $\{(Adjacency_{Rated\ SU} - Adjacency_{Least\ Adj.\ SU}) / (Adjacency_{Most\ Adj.\ SU} - Adjacency_{Least\ Adj.\ SU})\}$</p> <table border="1" data-bbox="870 1165 1279 1320"> <tr> <td>-61</td> <td>X = Rated SU</td> </tr> <tr> <td>-61</td> <td>Y = Most Value</td> </tr> <tr> <td>-60</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table> <table border="1" data-bbox="667 1320 1414 1394"> <tr> <td colspan="2">Article Score (Max 10 Points)</td> <td>=</td> <td>10</td> </tr> </table>	-61	X = Rated SU	-61	Y = Most Value	-60	Z = Least Value	10	Points awarded	Article Score (Max 10 Points)		=	10
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<p>8.2.4.3.4.1</p>	<p>Preferably should exceed spurious response rejection -80 dB</p>	<p>10 points awarded to the mobile radio with the highest spurious response rejection in category. 0 points awarded to the mobile radio with the lowest spurious response rejection in category. 0 to 10 points awarded based on equation below and all offeror's responses. Comparison based rating: (Mobile Unit Max. Points 10)</p> <p>Spurious response rejection Points Awarded = Max Points x $\{(Rejection_{Rated\ SU} - Rejection_{Least\ Reject\ SU}) / (Rejection_{Highest\ Reject\ SU} - Rejection_{Least\ Reject\ SU})\}$</p> <table border="1" data-bbox="870 1787 1279 1942"> <tr> <td>-81</td> <td>X = Rated SU</td> </tr> <tr> <td>-81</td> <td>Y = Most Value</td> </tr> <tr> <td>-80</td> <td>Z = Least Value</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>	-81	X = Rated SU	-81	Y = Most Value	-80	Z = Least Value	10	Points awarded				
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Article Score (Max 10 Points)		=	10											
<p>Overall VHF Desk-Mounted (Sensitivity+Inter Mod.+Adj. Ch. Select+Spurious Resp.) Score (Max Points: 40)</p>		<p>40</p>												
<p>Overall VHF Band Receiver ((Overall VHF Portable + Overall VHF Mobile + Overall VHF Desk-Mounted) / 3) Score (Max Points: 40)</p>		<p>40</p>												
<p>Total Band Specific Requirements ((Overall 7/800 Band Receiver + Overall UHF Band Receiver + Overall VHF Band Receiver) / 3) Score (Max Pts. 40):</p>		<p>40</p>												
<p>9 Portable Radio Specific Specifications</p>														
<p>9.1 General</p>														

9.1.2.1	Portable radio should have an audio output of 1 Watt at no more than 1.5% audio distortion level.	<p>6 points awarded if proposed Portable Radio has an audio output of 1 Watt or more at no more than 1.5% audio distortion level.</p> <p>0 points awarded if proposed Portable Radio has an audio output of less than 1 Watt or more than 1.5% audio distortion level.</p>	6
9.2 Environmental Requirements			
9.2.4	Offeror should provide details of any available options of versions of their radio equipment that comply with UL Division 1 specifications operating in environments that contain ignitable concentrations of flammable gases, flammable liquid-produced vapours, or combustible liquid-produced vapours can exist under normal operating conditions (HazLoc).	<p>Points awarded if the offeror provide details of any available options of versions of their radio equipment that comply with UL Division 1 specifications operating in environments that contain ignitable concentrations of flammable gases, flammable liquid-produced vapours, or combustible liquid-produced vapours can exist under normal operating conditions (HazLoc).</p> <p>10 Points awarded if the Offeror indicates the option for Class I, Div 1, Groups C, D; Class I, Div 2, Groups A, B, C, D;</p> <p>5 points awarded if the offeror indicates the option for Class I, Div 2, Groups A, B, C, D;</p> <p>0 points awarded if the offeror provides no details of any available options of versions of their radio equipment that comply with UL Division 1 specifications operating in environments that contain ignitable concentrations of flammable gases, flammable liquid-produced vapours, or combustible liquid-produced vapours can exist under normal operating conditions (HazLoc).</p>	10
9.3 Battery (portable)			
9.3.2.1	Offeror should provide an extra high capacity rechargeable battery that will last in excess of 12 hours in encrypted mode, based on 5-5-90 duty cycle. On P25 channels stand-by time is defined as the period of time that the SU is monitoring the assigned control channel.	<p>10 points awarded if the offeror can provide an extra high capacity rechargeable battery that will last in excess of 12 hours in encrypted mode, based on 5-5-90 duty cycle. On P25 channels stand-by time is defined as the period of time that the SU is monitoring the assigned control channel.</p> <p>0 points awarded if the offeror cannot provide an extra high capacity rechargeable battery that will last in excess of 12 hours in encrypted mode, based on 5-5-90 duty cycle. On P25 channels stand-by time is defined as the period of time that the SU is monitoring the assigned control channel.</p>	10
9.4 Physical Specifications (portable)			

<p>9.4.1.1</p>	<p>Offeror should specify the weight in grams of their portable radio with standard antenna and high capacity Li-Ion battery as per section 9.3.2 of this SOR.</p>	<p>10 points awarded to the lightest portable radio in category.</p> <p>0 points awarded for the heaviest portable radio in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Max. Points 10)</p> <p>Points Awarded = $\text{Max Points} \times ((\text{Weight Heaviest SU} - \text{Weight Rated SU}) / (\text{Weight Heaviest SU} - \text{Weight Lightest SU})) \text{ in grams}$</p> <table border="1" data-bbox="868 604 1279 758"> <tr> <td>1150</td> <td>X = Rated SU</td> </tr> <tr> <td>1150</td> <td>Y = Lightest SU</td> </tr> <tr> <td>1500</td> <td>Z = Heaviest SU</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>	1150	X = Rated SU	1150	Y = Lightest SU	1500	Z = Heaviest SU	10	Points awarded	<p style="text-align: center;">10</p>
1150	X = Rated SU										
1150	Y = Lightest SU										
1500	Z = Heaviest SU										
10	Points awarded										
<p>9.4.1.2</p>	<p>Offeror should specify in centimetres cubed (cm³) the volume of their portable radio(s), excluding clips and antenna, with high-capacity Li-Ion battery attached as per section 9.3.2 of this SOR.</p>	<p>10 points awarded to the smallest portable radio in category.</p> <p>0 points awarded for the biggest portable radio in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Max. Points 10)</p> <p>Points Awarded = Max Points x ((Volume Biggest SU - Volume Rated SU) / (Volume Biggest SU - Volume Smallest SU)) cm³</p> <table border="1" data-bbox="868 1262 1279 1415"> <tr> <td>1150</td> <td>X = Rated SU</td> </tr> <tr> <td>1150</td> <td>Y = Smallest SU</td> </tr> <tr> <td>1500</td> <td>Z = Biggest SU</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>	1150	X = Rated SU	1150	Y = Smallest SU	1500	Z = Biggest SU	10	Points awarded	<p style="text-align: center;">10</p>
1150	X = Rated SU										
1150	Y = Smallest SU										
1500	Z = Biggest SU										
10	Points awarded										

9.4.1.3	<p>Offeror should specify in millimetres (mm) the height of their portable radio(s), with standard antenna and high capacity Li-Ion battery attached as per section 9.3.2 of this SOR.</p>	<p>10 points awarded to the smallest height portable radio in category.</p> <p>0 points awarded for the tallest height portable radio in category.</p> <p>0 to 10 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Max. Points 10)</p> <p>Points Awarded = Max Points x ((Height Biggest SU - Height Rated SU) / Height Biggest SU - Height Smallest SU)) in mm</p> <table border="1" data-bbox="870 621 1281 779"> <tr> <td>750</td> <td>X = Rated SU</td> </tr> <tr> <td>750</td> <td>Y = Smallest SU</td> </tr> <tr> <td>950</td> <td>Z = Biggest SU</td> </tr> <tr> <td>10</td> <td>Points awarded</td> </tr> </table>	750	X = Rated SU	750	Y = Smallest SU	950	Z = Biggest SU	10	Points awarded	<table border="1" data-bbox="1419 779 1578 850"> <tr> <td style="background-color: #00FF00; text-align: center;">10</td> </tr> </table>	10
750	X = Rated SU											
750	Y = Smallest SU											
950	Z = Biggest SU											
10	Points awarded											
10												
<p>9.8 Visual Display and Audible Indicators</p>												
9.8.3.1	<p>The number of characters per line that can be displayed on the alphanumeric screen of the portable radio should be higher than 8.</p>	<p>15 points awarded if number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is 11 or more.</p> <p>10 points awarded if number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is between 9 and 10.</p> <p>0 points awarded if the number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is 8.</p>	<table border="1" data-bbox="1419 1272 1578 1346"> <tr> <td style="background-color: #00FF00; text-align: center;">15</td> </tr> </table>	15								
15												
9.8.12	<p>Portable radio should be equipped with a top facing alphanumeric display.</p>	<p>15 points awarded if number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is 11 or more.</p> <p>10 points awarded if number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is between 9 and 10.</p> <p>0 points awarded if the number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is 8.</p>	<table border="1" data-bbox="1419 1730 1578 1801"> <tr> <td style="background-color: #00FF00; text-align: center;">15</td> </tr> </table>	15								
15												

9.8.17	It should be possible to enable, disable and configure the audible alert and useable threshold level defined in 9.8.16 through the radio programming software.	<p>15 points awarded if it is possible to enable, disable and configure the audible alert and useable threshold level defined in 9.8.16 through the radio programming software.</p> <p>0 points awarded if it is not possible to enable, disable and configure the audible alert and useable threshold level defined in 9.8.16 through the radio programming software.</p>	15
		Article Score (Max 15 Points) =	

9.9 Capacity

9.9.1.1	Portable radio should have a capacity of 513 or more modes of operation (talkgroups/channels) that permit programming of various frequency channels, modes of modulation.	<p>6 points awarded if the Portable radio has a capacity of 513 or more modes of operation.</p> <p>0 points awarded if the Portable radio has a capacity of 512 modes of operation.</p>	6
		Article Score (Max 6 Points) =	

10 Mobile Radio Specific Specifications

10.1 General

10.1.7.1	Mobile radio mode/primary talkgroup selection should be via a single rotary control that is physically separate from the volume adjustment rotary control mentioned in Section 10.1.6.	<p>6 points awarded if the Mobile radio has a rotary mode/primary talkgroup selector that is physically separate from the volume adjustment rotary control.</p> <p>0 points awarded if the Mobile radio does not have a rotary mode/primary talkgroup selector that is physically separate from the volume adjustment rotary control.</p>	6
		Article Score (Max 6 Points) =	

10.3 Physical Specifications (mobile)

10.3.2	Offeror should specify in centimetres (cm) the height, length and depth with mounting bracket attached for each mobile radio(s).	<p>15 points awarded to the smallest mobile radio by volume in category.</p> <p>0 points awarded for the biggest mobile radio by volume in category.</p> <p>0 to 15 points awarded based on equation below and all offeror's responses.</p> <p>Comparison based rating: (Max. Points 15)</p> <p>Points Awarded = Max Points x ((Volume Largest SU - Volume Rated SU) / (Volume Largest SU - Volume Smallest SU))</p> <p>Calculation for volume = Length x Depth x Height = Volume cm³</p> <table border="1" data-bbox="868 1745 1279 1898" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">750</td> <td style="text-align: center;">X = Rated SU</td> </tr> <tr> <td style="text-align: center;">750</td> <td style="text-align: center;">Y = Smallest SU</td> </tr> <tr> <td style="text-align: center;">950</td> <td style="text-align: center;">Z = Biggest SU</td> </tr> <tr> <td style="text-align: center;">15</td> <td style="text-align: center;">Points awarded</td> </tr> </table>	750	X = Rated SU	750	Y = Smallest SU	950	Z = Biggest SU	15	Points awarded	15
750	X = Rated SU										
750	Y = Smallest SU										
950	Z = Biggest SU										
15	Points awarded										

		Article Score (Max 15 points)	=	
10.5 Mobile Radio Component Configurations				
10.5.2.2.4	A single control head should be capable of controlling multiple Mobile Radios.	6 points awarded if a single control head is capable of controlling multiple Mobile Radios. 0 points awarded if a single control head is not capable of controlling multiple Mobile Radios.		
		Article Score (Max 6 Points)	=	6
10.7 Visual Display and Audible Indicators				
10.7.10.1	It should be possible to enable, disable and configure the audible alert and useable threshold level defined in 10.7.10 through the radio programming software.	15 points awarded if it is possible to enable, disable and configure the audible alert and useable threshold level defined in 10.7.10 through the radio programming software. 0 points awarded if it is not possible to enable, disable and configure the audible alert and useable threshold level defined in 10.7.10 through the radio programming software.		
		Article Score (Max 15 Points)	=	15
11 Desk Mounted Radio Specific Specifications				
11.1 General				
11.1.8.1	Desk Mounted Radio mode/primary talkgroup selection should be via a single rotary control that is physically separate from the volume adjustment rotary control mentioned in section 11.1.8	6 points awarded if the Desk Mounted radio has a rotary mode/primary talkgroup selector that is physically separate from the volume adjustment rotary control. 0 points awarded if the Desk Mounted radio does not have a rotary mode/primary talkgroup selector that is physically separate from the volume adjustment rotary control.		
		Article Score (Max 6 Points)	=	6
11.5 Visual Display and Audible Indicators				
11.5.6	Desk Mounted Radio user should be able to turn off all illuminations, status lights and all audible indicators on radio while still able to operate the radio in a normal fashion otherwise.	5 points awarded if the Desk Mounted radio is able to turn off all illuminations, status lights and all audible indicators on radio while still able to operate the radio in a normal fashion otherwise 0 points awarded if the Desk Mounted cannot able turn off all illuminations, status lights and all audible indicators on radio while still able to operate the radio in a normal fashion otherwise		
		Article Score (Max 5 Points)	=	5

11.5.11	It should be possible to enable, disable and configure the audible alert and useable threshold level defined in section 11.5.10 through the radio programming software.	<p>15 points awarded if it is possible to enable, disable and configure the audible alert and useable threshold level defined in section 11.5.10 through the radio programming software.</p> <p>0 points awarded if it is not possible to enable, disable and configure the audible alert and useable threshold level defined in section 11.5.10 through the radio programming software.</p>	15
Article Score (Max 15 Points) =			
11.7 External Ports			
11.7.4.1	Strain relief cords or connections should be used where applicable to reduce risk of damage.	<p>3 points awarded if strain relief cords or connections are used where applicable to reduce risk of damage.</p> <p>0 points awarded if no strain relief cords or connections are used where applicable to reduce risk of damage</p>	3
Article Score (Max 3 Points) =			
13 Appendix A – Request To Talk Baseline Requirements			
13.1 Physical			
13.1.3	Speaker Mic accessories for portable Subscriber Unit (SU) for use by the RCMP should have a dedicated button for initiation of a RTT.	<p>15 points awarded if the Speaker Mic accessories for portable Subscriber Unit (SU) for use by the RCMP has a dedicated button for initiation of a RTT.</p> <p>0 points awarded if the Speaker Mic accessories for portable Subscriber Unit (SU) for use by the RCMP does not have a dedicated button for initiation of a RTT.</p>	15
Article Score (Max 15 Points) =			
Total Stream Score (Max 380 Points)			380