

Project No.	SHT2203089001EW		
Test sample No.	YPHT22040479007	Model No.	RM20
Start test date	2022/5/23	Finish date	2022/6/1
Temperature	22.8°C	Humidity	47%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhao</i>

Appendix clause	Test Item	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	PASS
B	Occupied Bandwidth	PASS
C	Emission Mask	PASS
D	Modulation Limit	PASS
E	Aduio Frequency Response	PASS
F	Audio Low Pass Filter Response	PASS
G	Frequency Stability Test & Temperature	PASS
H	Frequency Stability Test & Voltage	PASS
I	Spurious Emission On Antenna Port	PASS

Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Limit(W)	Result
TX-AWH	FM	CH _L	43.96	24.89	25	PASS
TX-AWH	FM	CH _M	43.72	23.55	25	PASS
TX-AWH	FM	CH _H	43.87	24.37	25	PASS
TX-AWL	FM	CH _L	28.89	0.78	1	PASS
TX-AWL	FM	CH _M	28.85	0.77	1	PASS
TX-AWL	FM	CH _H	28.89	0.77	1	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-AWH	FM	CH _L	10.708	15.59	≤20	PASS
TX-AWH	FM	CH _M	10.668	15.61	≤20	PASS
TX-AWH	FM	CH _H	10.515	15.53	≤20	PASS
TX-AWL	FM	CH _L	10.646	15.60	≤20	PASS
TX-AWL	FM	CH _M	10.651	15.58	≤20	PASS
TX-AWL	FM	CH _H	10.531	15.51	≤20	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Trig: Free Run Avg Hold>10/10</p> <p>#IFGain:Low #Atten: 38 dB Radio Device: BTS</p> <p>10 dB/div Ref 48.18 dBm</p> <p>Center 156 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 10.708 kHz Total Power 45.8 dBm</p> <p>Transmit Freq Error -328 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.59 kHz x dB -26.00 dB</p> <p>Frequency 156.025000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-AWH	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Trig: Free Run Avg Hold>10/10</p> <p>#IFGain:Low #Atten: 38 dB Radio Device: BTS</p> <p>10 dB/div Ref 48.15 dBm</p> <p>Center 156.8 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 10.668 kHz Total Power 45.7 dBm</p> <p>Transmit Freq Error -371 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.61 kHz x dB -26.00 dB</p> <p>Frequency 156.800000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-AWH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None</p> <p>Trig: Free Run Avg Hold>10/10</p> <p>#IFGain:Low #Atten: 38 dB Radio Device: BTS</p> <p>10 dB/div Ref 48.14 dBm</p> <p>Center 157.4 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 10.515 kHz Total Power 45.7 dBm</p> <p>Transmit Freq Error -77 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.53 kHz x dB -26.00 dB</p> <p>Frequency 157.425000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Trig: Free Run Avg Hold> 10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 33.18 dBm</p> <p>Center 156 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 10.646 kHz Total Power 30.9 dBm</p> <p>Transmit Freq Error -357 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.60 kHz x dB -26.00 dB</p> <p>Frequency 156.025000 MHz</p> <p>Center Freq 156.025000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-AWL	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Trig: Free Run Avg Hold> 10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 33.20 dBm</p> <p>Center 156.8 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 10.651 kHz Total Power 30.6 dBm</p> <p>Transmit Freq Error -8 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.58 kHz x dB -26.00 dB</p> <p>Frequency 156.800000 MHz</p> <p>Center Freq 156.800000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-AWL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None</p> <p>Trig: Free Run Avg Hold> 10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 33.20 dBm</p> <p>Center 157.4 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 10.531 kHz Total Power 30.5 dBm</p> <p>Transmit Freq Error 290 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.51 kHz x dB -26.00 dB</p> <p>Frequency 157.425000 MHz</p> <p>Center Freq 157.425000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>

Appendix C:Emission Mask

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TX-AWH	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 156.025000 MHz</p> <p>Ref Offset 21 dB, Ref 50.0 dBm</p> <p>Total Power Ref: 44.70 dBm @ 0.125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>44.93</td> <td>(-0.76)</td> <td>-299.4</td> <td>23.72</td> <td>(-21.96)</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-23.85</td> <td>(-43.03)</td> <td>-12.58 k</td> <td>-24.58</td> <td>(-43.76)</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-29.15</td> <td>(-38.34)</td> <td>-26.67 k</td> <td>-27.10</td> <td>(-36.28)</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-34.09</td> <td>(-)</td> <td>-53.29 k</td> <td>-34.40</td> <td>(-21.40)</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak Freq (Hz)	Peak dBm	0.0 Hz	10.00 kHz	300.0 Hz	44.93	(-0.76)	-299.4	23.72	(-21.96)	10.00 kHz	20.00 kHz	300.0 Hz	-23.85	(-43.03)	-12.58 k	-24.58	(-43.76)	20.00 kHz	50.00 kHz	300.0 Hz	-29.15	(-38.34)	-26.67 k	-27.10	(-36.28)	50.00 kHz	60.00 kHz	300.0 Hz	-34.09	(-)	-53.29 k	-34.40	(-21.40)	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)
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Appendix C:Emission Mask

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Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-AWH	FM	CH _M	-20	0.174	0.368	0.511	0.710	5	PASS
TX-AWH	FM	CH _M	-15	0.252	0.581	0.862	1.213	5	PASS
TX-AWH	FM	CH _M	-10	0.378	0.974	1.495	2.121	5	PASS
TX-AWH	FM	CH _M	-5	0.598	1.692	2.603	3.517	5	PASS
TX-AWH	FM	CH _M	0	1.034	3.045	4.176	3.770	5	PASS
TX-AWH	FM	CH _M	5	1.771	4.375	4.318	3.826	5	PASS
TX-AWH	FM	CH _M	10	3.079	4.432	4.351	3.845	5	PASS
TX-AWH	FM	CH _M	15	4.432	4.440	4.352	3.878	5	PASS
TX-AWH	FM	CH _M	20	4.659	4.456	4.365	3.889	5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

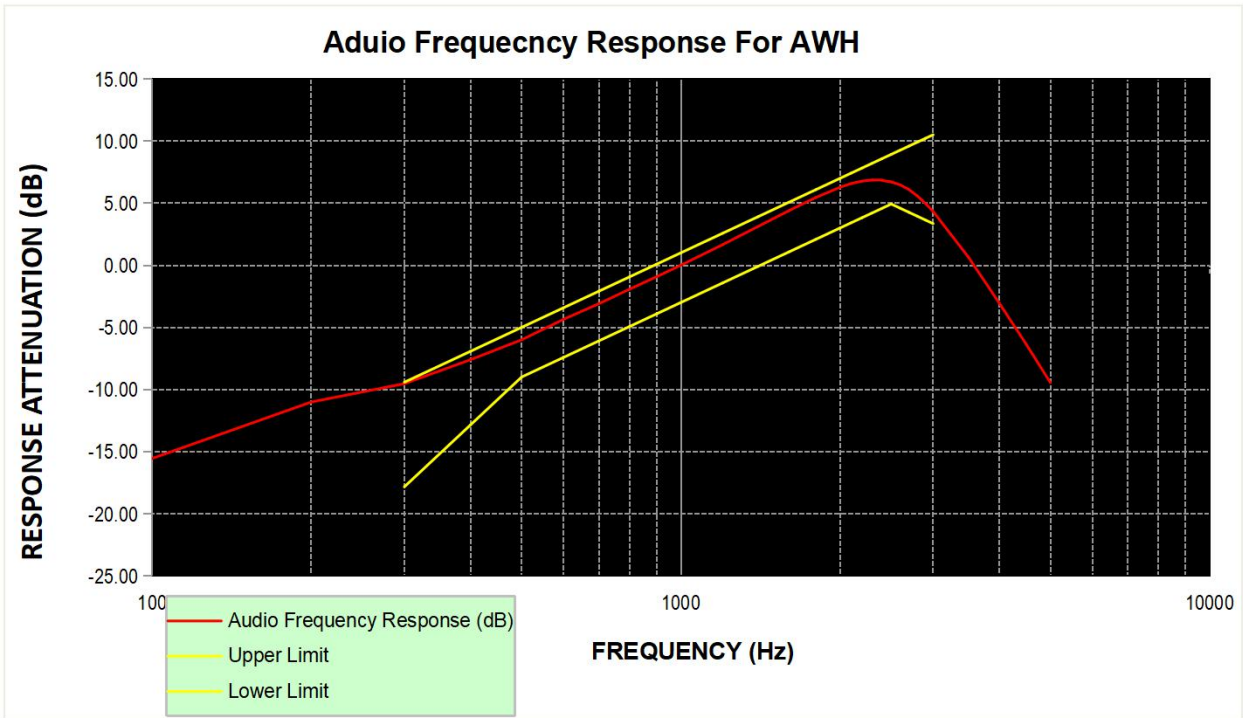


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH _M	100	-15.56			PASS
TX-AWH	FM	CH _M	200	-11.02			PASS
TX-AWH	FM	CH _M	300	-9.53	-17.84	-9.42	PASS
TX-AWH	FM	CH _M	400	-7.61	-12.86	-6.93	PASS
TX-AWH	FM	CH _M	500	-6.00	-9.00	-5.00	PASS
TX-AWH	FM	CH _M	600	-4.35	-7.42	-3.42	PASS
TX-AWH	FM	CH _M	700	-3.10	-6.09	-2.09	PASS
TX-AWH	FM	CH _M	800	-1.92	-4.93	-0.93	PASS
TX-AWH	FM	CH _M	900	-0.92	-3.91	0.09	PASS
TX-AWH	FM	CH _M	1000	0.00	-3.00	1.00	PASS
TX-AWH	FM	CH _M	1200	1.66	-1.42	2.58	PASS
TX-AWH	FM	CH _M	1400	3.13	-0.09	3.91	PASS
TX-AWH	FM	CH _M	1600	4.39	1.07	5.07	PASS
TX-AWH	FM	CH _M	1800	5.46	2.09	6.09	PASS
TX-AWH	FM	CH _M	2000	6.28	3.00	7.00	PASS
TX-AWH	FM	CH _M	2100	6.58	3.42	7.42	PASS
TX-AWH	FM	CH _M	2200	6.77	3.83	7.83	PASS
TX-AWH	FM	CH _M	2300	6.87	4.21	8.21	PASS
TX-AWH	FM	CH _M	2400	6.83	4.58	8.58	PASS
TX-AWH	FM	CH _M	2500	6.71	4.93	8.93	PASS
TX-AWH	FM	CH _M	2600	6.47	4.59	9.27	PASS
TX-AWH	FM	CH _M	2700	6.10	4.27	9.60	PASS
TX-AWH	FM	CH _M	2800	5.59	3.95	9.91	PASS
TX-AWH	FM	CH _M	2900	4.99	3.65	10.22	PASS
TX-AWH	FM	CH _M	3000	4.33	3.35	10.51	PASS
TX-AWH	FM	CH _M	3500	0.64			PASS
TX-AWH	FM	CH _M	4000	-3.04			PASS
TX-AWH	FM	CH _M	4500	-6.36			PASS
TX-AWH	FM	CH _M	5000	-9.46			PASS

Appendix E:Aduio Frequency Response

TEST PLOT RESULT



Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	Frequency (KHz)	dB relative to 1 KHz	Limit	Result
TX-AWH	FM	CH _M	1	-13.88	0.00	PASS
TX-AWH	FM	CH _M	3	-23.70	0.00	PASS
TX-AWH	FM	CH _M	4	-39.38	-7.50	PASS
TX-AWH	FM	CH _M	5	-51.14	-13.30	PASS
TX-AWH	FM	CH _M	6	-52.48	-18.10	PASS
TX-AWH	FM	CH _M	8	-53.61	-25.60	PASS
TX-AWH	FM	CH _M	10	-54.59	-31.40	PASS
TX-AWH	FM	CH _M	15	-54.71	-41.90	PASS
TX-AWH	FM	CH _M	20	-54.87	-50.00	PASS
TX-AWH	FM	CH _M	30	-55.49	-50.00	PASS
TX-AWH	FM	CH _M	40	-55.51	-50.00	PASS
TX-AWH	FM	CH _M	50	-55.51	-50.00	PASS
TX-AWH	FM	CH _M	60	-55.52	-50.00	PASS
TX-AWH	FM	CH _M	70	-55.51	-50.00	PASS
TX-AWH	FM	CH _M	80	-55.50	-50.00	PASS
TX-AWH	FM	CH _M	90	-55.51	-50.00	PASS
TX-AWH	FM	CH _M	100	-55.52	-50.00	PASS

Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH _M	<p>The graph displays the audio low pass filter response. The y-axis represents the gain in dB relative to 1 kHz, ranging from -70.00 to 10.00. The x-axis represents the frequency in kHz on a logarithmic scale from 1 to 100. A red line shows the measured response, and a yellow line shows the limit. The measured response starts at approximately -15 dB at 1 kHz, drops to -25 dB at 2 kHz, then to -50 dB at 3 kHz, and levels off around -55 dB for frequencies above 10 kHz. The limit line starts at 0 dB at 1 kHz, remains flat until 2 kHz, then drops to -50 dB at 10 kHz and remains flat thereafter.</p>

Appendix G:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-AWH	FM	V _N	-20	-0.436	-0.644	-0.904	±10	PASS
TX-AWH	FM	V _N	-10	-0.413	-0.694	-0.928	±10	PASS
TX-AWH	FM	V _N	0	-0.410	-0.670	-0.934	±10	PASS
TX-AWH	FM	V _N	10	-0.434	-0.634	-0.854	±10	PASS
TX-AWH	FM	V _N	20	-0.403	-0.633	-0.851	±10	PASS
TX-AWH	FM	V _N	30	-0.407	-0.635	-0.915	±10	PASS
TX-AWH	FM	V _N	40	-0.407	-0.685	-0.889	±10	PASS
TX-AWH	FM	V _N	50	-0.404	-0.675	-0.882	±10	PASS
TX-AWL	FM	V _N	-20	-0.416	-0.632	-0.927	±10	PASS
TX-AWL	FM	V _N	-10	-0.408	-0.650	-0.932	±10	PASS
TX-AWL	FM	V _N	0	-0.437	-0.642	-0.859	±10	PASS
TX-AWL	FM	V _N	10	-0.402	-0.647	-0.891	±10	PASS
TX-AWL	FM	V _N	20	-0.398	-0.629	-0.847	±10	PASS
TX-AWL	FM	V _N	30	-0.417	-0.647	-0.893	±10	PASS
TX-AWL	FM	V _N	40	-0.428	-0.632	-0.892	±10	PASS
TX-AWL	FM	V _N	50	-0.409	-0.688	-0.861	±10	PASS

Appendix H:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-AWH	FM	V _N	T _N	-0.403	-0.633	-0.851	±10	PASS
TX-AWH	FM	V _L	T _N	-0.408	-0.634	-0.866	±10	PASS
TX-AWH	FM	V _H	T _N	-0.420	-0.644	-0.894	±10	PASS
TX-AWL	FM	V _N	T _N	-0.398	-0.629	-0.847	±10	PASS
TX-AWL	FM	V _L	T _N	-0.399	-0.639	-0.849	±10	PASS
TX-AWL	FM	V _H	T _N	-0.414	-0.643	-0.861	±10	PASS

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-AWH	FM	CHL	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Mkr3 779.81 MHz -60.302 dBm</p> <table border="1"> <thead> <tr> <th>MFR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>156.10 MHz</td> <td>-0.681 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>488.44 MHz</td> <td>-59.175 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>779.81 MHz</td> <td>-60.302 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MFR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	156.10 MHz	-0.681 dBm				2	N	1	f	488.44 MHz	-59.175 dBm				3	N	1	f	779.81 MHz	-60.302 dBm			
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TX-AWH	FM	CHL	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.280125000 GHz</p> <p>Mkr1 1.5014 GHz -53.973 dBm</p> <table border="1"> <thead> <tr> <th>MFR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.5014 GHz</td> <td>-53.973 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MFR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.5014 GHz	-53.973 dBm																					
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TX-AWH	FM	CH _M	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Mkr3 837.04 MHz -60.650 dBm</p> <table border="1"> <thead> <tr> <th>MFR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>187.07 MHz</td> <td>-2.228 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>127.00 MHz</td> <td>-60.440 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>837.04 MHz</td> <td>-60.650 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MFR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	187.07 MHz	-2.228 dBm				2	N	1	f	127.00 MHz	-60.440 dBm				3	N	1	f	837.04 MHz	-60.650 dBm			
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
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