

Spurious Emissions at Antenna Terminal

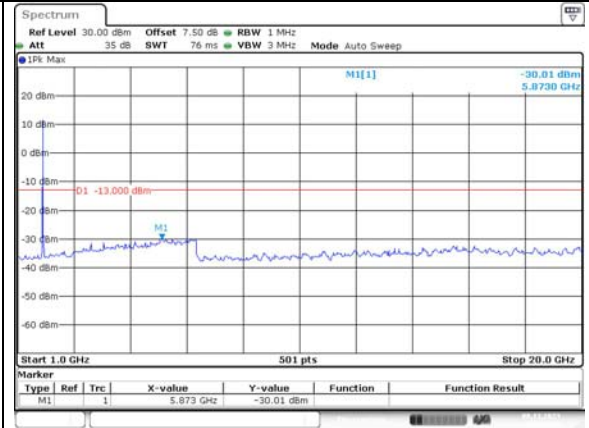
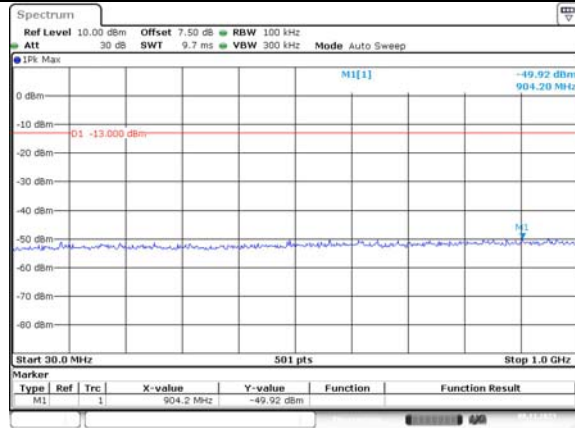
Channel	10MHz Bandwidth QPSK																													
Lowest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.37 dBm 888.70 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>888.7 MHz</td> <td>-49.37 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:43:20</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	888.7 MHz	-49.37 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -29.64 dBm 7.0110 GHz</p> <p>20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>7.011 GHz</td> <td>-29.64 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:43:57</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	7.011 GHz	-29.64 dBm		
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M1		1	888.7 MHz	-49.37 dBm																										
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M1		1	7.011 GHz	-29.64 dBm																										
Middle	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -50.11 dBm 898.40 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>898.4 MHz</td> <td>-50.11 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:44:29</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	898.4 MHz	-50.11 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -29.06 dBm 6.2150 GHz</p> <p>20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>6.215 GHz</td> <td>-29.06 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:45:02</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.215 GHz	-29.06 dBm		
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M1		1	6.215 GHz	-29.06 dBm																										
Highest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.50 dBm 950.60 MHz</p> <p>0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>950.6 MHz</td> <td>-49.50 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:45:39</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	950.6 MHz	-49.50 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -29.70 dBm 5.9110 GHz</p> <p>20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>5.911 GHz</td> <td>-29.70 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:46:16</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	5.911 GHz	-29.70 dBm		
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M1		1	950.6 MHz	-49.50 dBm																										
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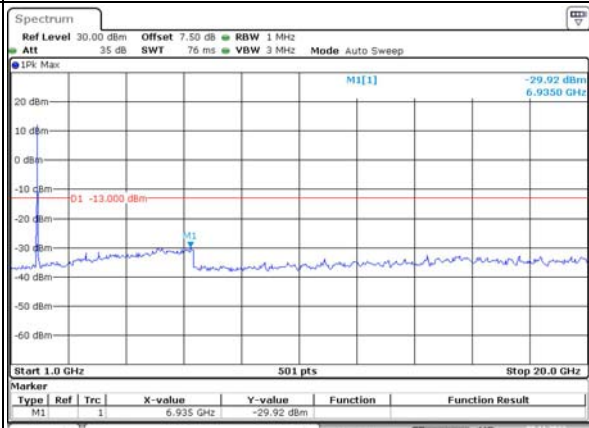
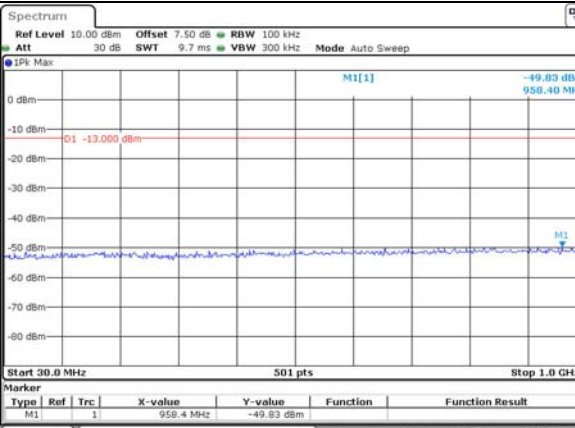
Channel

15MHz Bandwidth QPSK

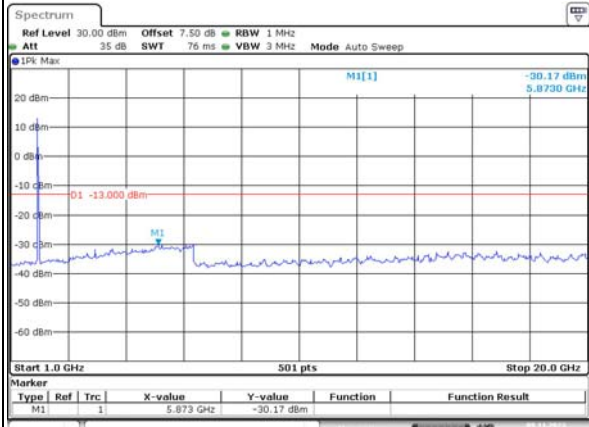
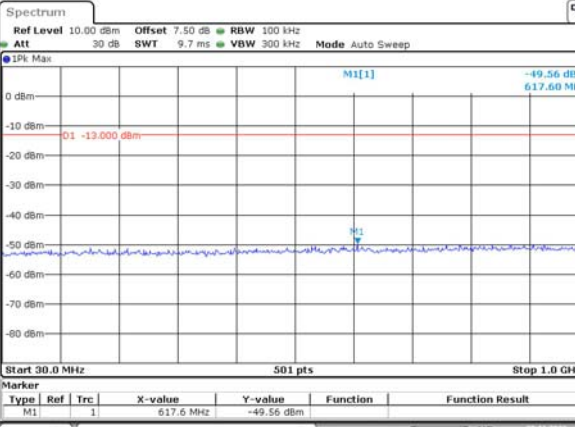
Lowest



Middle



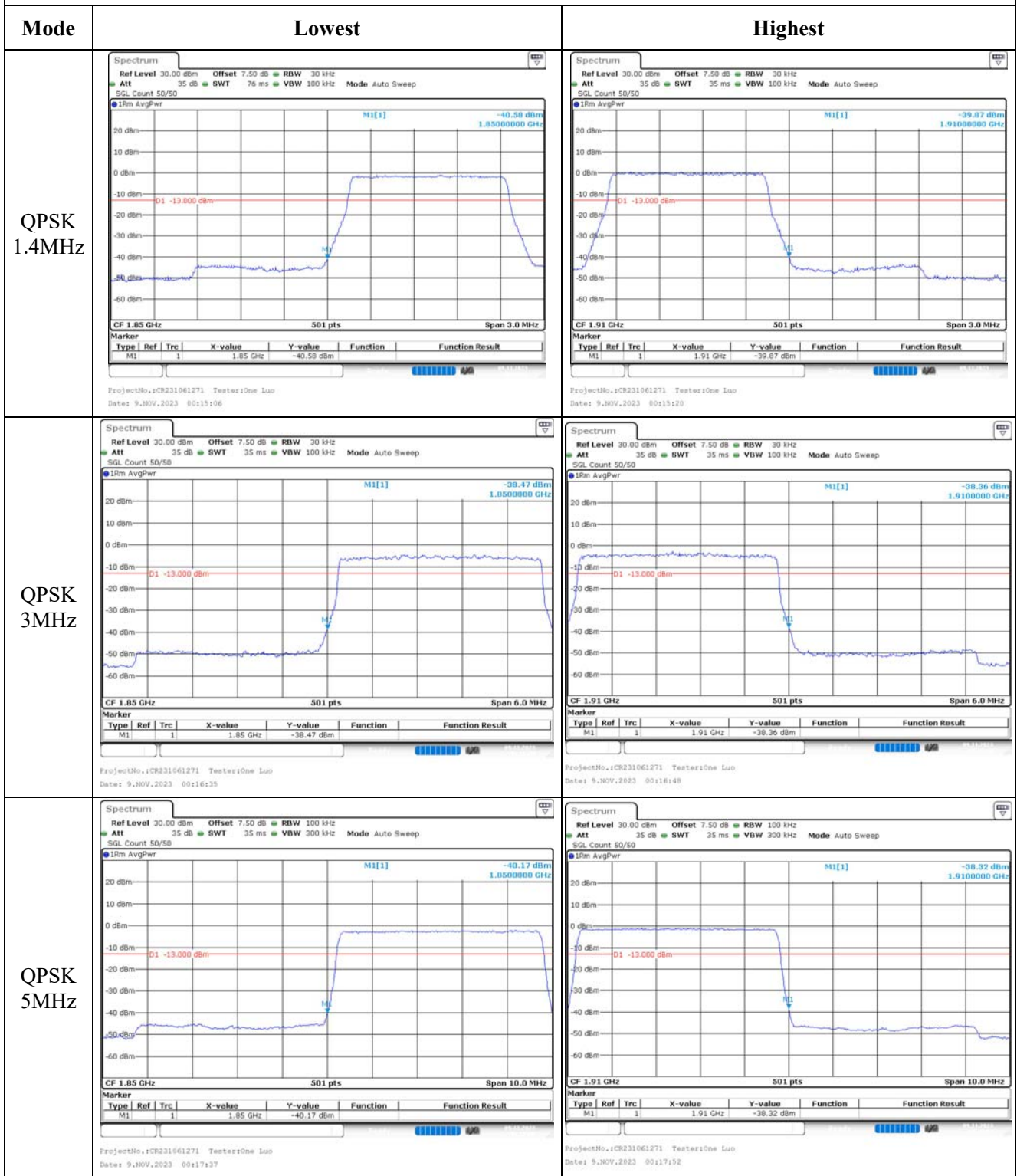
Highest



Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK																																	
Lowest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPK Max M1[1] -49.46 dBm 017.00 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td></td> <td>1</td> <td>017.0 MHz</td> <td>-49.46 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:55:16</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1			1	017.0 MHz	-49.46 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPK Max M1[1] -29.61 dBm 6.366 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td></td> <td>1</td> <td>6.366 GHz</td> <td>-29.61 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:55:42</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1			1	6.366 GHz	-29.61 dBm		
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Middle	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPK Max M1[1] -49.40 dBm 633.10 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td></td> <td>1</td> <td>633.1 MHz</td> <td>-49.40 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:56:13</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1			1	633.1 MHz	-49.40 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPK Max M1[1] -29.52 dBm 5.873 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td></td> <td>1</td> <td>5.873 GHz</td> <td>-29.52 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 23:56:40</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1			1	5.873 GHz	-29.52 dBm		
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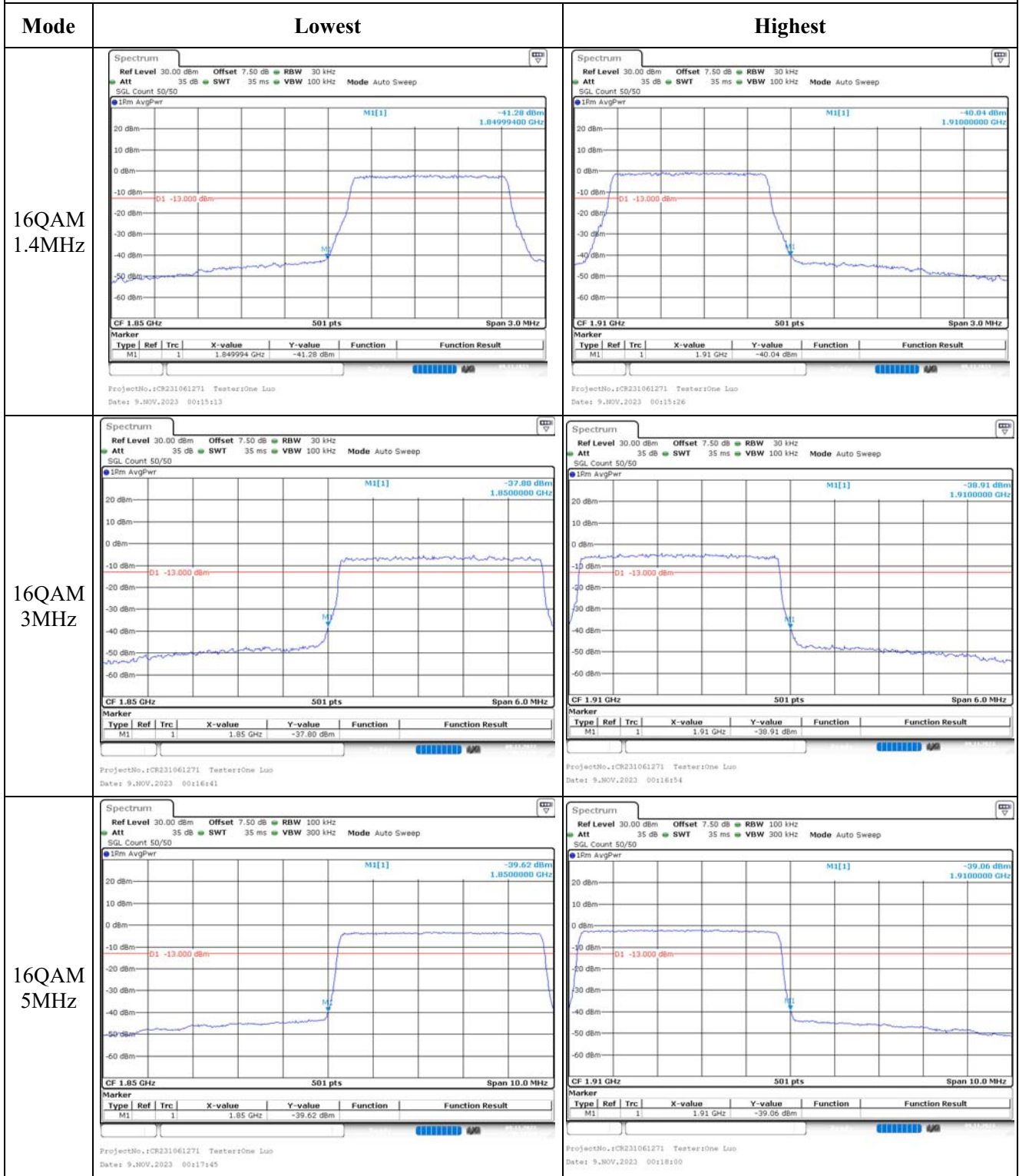
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:18:43</p>	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:18:59</p>
QPSK 15MHz	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:20:58</p>	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:21:14</p>
QPSK 20MHz	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:21:58</p>	<p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:22:15</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 9.NOV.2023 00:18:51</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 9.NOV.2023 00:19:07</p>
16QAM 15MHz	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 9.NOV.2023 00:21:06</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 9.NOV.2023 00:21:21</p>
16QAM 20MHz	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 9.NOV.2023 00:22:06</p>	<p>ProjectNo.:CR231061271 Testers:One Luo Date: 9.NOV.2023 00:22:22</p>

4.7 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	2CGI-2	Test Date:	2023/11/7~2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

Test Data:**RF Output Power**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	17.98	18.17	18.22	15.52	30
	RB1#3	17.81	17.78	18.2		
	RB1#5	17.8	17.75	17.84		
	RB3#0	17.73	17.99	18.22		
	RB3#3	17.62	17.96	18.13		
	RB6#0	17.47	17.94	17.82		
1.4MHz 16QAM	RB1#0	17.34	17.38	17.48	15.03	30
	RB1#3	17.31	17.64	17.67		
	RB1#5	17.28	17.61	17.72		
	RB3#0	17.26	17.73	17.39		
	RB3#3	17.24	17.66	17.55		
	RB6#0	17.06	17.57	17.33		
3MHz QPSK	RB1#0	17.98	18.24	18.43	15.73	30
	RB1#8	17.82	18.3	17.96		
	RB1#14	17.76	18.05	17.99		
	RB6#0	17.6	18.07	17.76		
	RB6#9	17.57	17.95	18.07		
	RB15#0	17.37	17.87	17.91		
3MHz 16QAM	RB1#0	17.3	17.64	17.44	15.13	30
	RB1#8	17.24	17.42	17.83		
	RB1#14	17.07	17.28	17.64		
	RB6#0	16.97	17.29	16.98		
	RB6#9	16.78	17.29	16.94		
	RB15#0	16.78	16.77	16.89		
5MHz QPSK	RB1#0	17.98	18.03	18.07	15.72	30
	RB1#13	17.89	17.88	18.42		
	RB1#24	17.78	17.98	18.12		
	RB15#0	17.78	18.25	18.26		
	RB15#10	17.72	18.02	17.75		
	RB25#0	17.65	17.84	18.16		
5MHz 16QAM	RB1#0	17.56	18.01	18.02	15.32	30
	RB1#13	17.4	17.67	17.56		
	RB1#24	17.27	17.35	17.64		
	RB15#0	17.1	17.46	17.48		
	RB15#10	16.95	16.96	17		
	RB25#0	16.94	17.34	17.3		
10MHz QPSK	RB1#0	17.98	18.26	18.25	15.56	30
	RB1#25	17.92	18.07	18.23		

	RB1#49	17.76	18.17	18.06		
	RB25#0	17.74	18.03	17.83		
	RB25#25	17.56	18.09	18.08		
	RB50#0	17.38	17.57	17.98		
10MHz 16QAM	RB1#0	17.19	17.62	17.67	14.97	30
	RB1#25	17.1	17.06	17.61		
	RB1#49	17.02	17.44	17.51		
	RB25#0	16.92	17.27	17.01		
	RB25#25	16.86	16.93	16.91		
	RB50#0	16.68	17.11	16.88		
15MHz QPSK	RB1#0	17.98	18.09	18.22	15.61	30
	RB1#38	17.78	18.31	18.23		
	RB1#74	17.77	17.8	18.05		
	RB36#0	17.6	17.77	18.17		
	RB36#39	17.43	17.96	17.8		
	RB75#0	17.41	17.56	17.52		
15MHz 16QAM	RB1#0	17.28	17.39	17.64	14.94	30
	RB1#38	17.11	17.17	17.26		
	RB1#74	17.03	17.04	17.48		
	RB36#0	16.95	16.97	17.19		
	RB36#39	16.76	16.76	16.97		
	RB75#0	16.63	16.83	17.18		
20MHz QPSK	RB1#0	17.98	18.41	18.17	15.71	30
	RB1#50	17.9	18.15	18.02		
	RB1#99	17.71	18.01	18.25		
	RB50#0	17.51	17.93	17.99		
	RB50#50	17.45	17.54	17.77		
	RB100#0	17.28	17.73	17.68		
20MHz 16QAM	RB1#0	17.23	17.4	17.8	15.1	30
	RB1#50	17.22	17.74	17.51		
	RB1#99	17.04	17.12	17.38		
	RB50#0	17.02	17.57	17.35		
	RB50#50	16.83	16.91	17.36		
	RB100#0	16.79	17.21	17.03		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(dBi)

Result:

Pass

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	5.74	6.09	6.12	13
	RB100#0	4.41	4.41	4.49	13
20MHz 16QAM	RB1#0	6.17	6.64	7.13	13
	RB100#0	5.97	6.03	6.06	13
Result:					Pass

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.102	1.108	1.096	1.302	1.278	1.284
1.4MHz 16QAM	1.096	1.096	1.102	1.284	1.296	1.308
3MHz QPSK	2.695	2.695	2.683	2.916	2.928	2.94
3MHz 16QAM	2.671	2.683	2.683	2.952	2.94	2.94
5MHz QPSK	4.491	4.511	4.511	4.92	4.94	4.92
5MHz 16QAM	4.511	4.491	4.511	4.92	4.9	4.94
10MHz QPSK	8.942	8.942	8.942	9.68	9.6	9.68
10MHz 16QAM	8.942	8.942	8.942	9.6	9.68	9.64
15MHz QPSK	13.473	13.413	13.413	14.64	14.58	14.58
15MHz 16QAM	13.473	13.473	13.473	14.58	14.58	14.64
20MHz QPSK	17.964	17.884	17.884	19.28	19.36	19.28
20MHz 16QAM	17.964	17.884	17.964	19.36	19.28	19.28

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

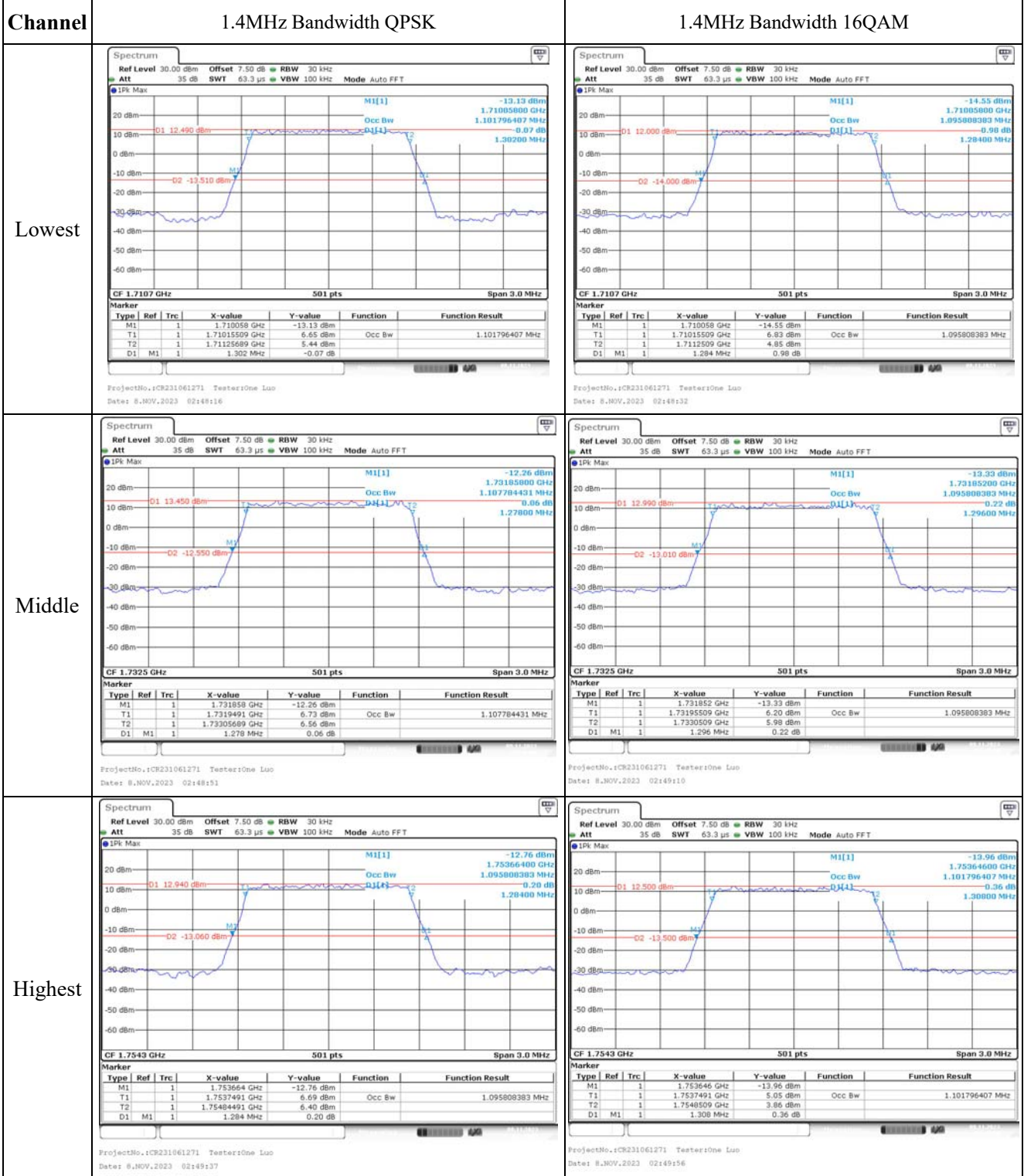
Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1711.069	1710.00	1753.980	1755
	-20	3.91	1711.089	1710.00	1754.000	1755
	-10	3.91	1711.014	1710.00	1753.931	1755
	0	3.91	1711.057	1710.00	1753.967	1755
	10	3.91	1711.033	1710.00	1754.000	1755
	20	3.91	1711.058	1710.00	1753.942	1755
	30	3.91	1711.088	1710.00	1753.901	1755
	40	3.91	1711.029	1710.00	1753.928	1755
	50	3.91	1711.003	1710.00	1753.988	1755
Frequency Stability vs. Voltage	20	3.45	1711.009	1710.00	1753.956	1755
	20	4.5	1711.089	1710.00	1753.968	1755
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1711.082	1710.00	1754.054	1755
	-20	3.91	1711.076	1710.00	1754.004	1755
	-10	3.91	1711.024	1710.00	1754.038	1755
	0	3.91	1711.072	1710.00	1754.062	1755
	10	3.91	1711.038	1710.00	1754.083	1755
	20	3.91	1711.058	1710.00	1754.022	1755
	30	3.91	1711.008	1710.00	1754.048	1755
	40	3.91	1711.022	1710.00	1754.061	1755
	50	3.91	1711.076	1710.00	1754.013	1755
Frequency Stability vs. Voltage	20	3.45	1711.027	1710.00	1754.081	1755
	20	4.5	1711.043	1710.00	1754.046	1755
					Result:	Pass

Test Plots (Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth

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Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.75004 GHz</td> <td>-12.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7502445 GHz</td> <td>7.91 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7547555 GHz</td> <td>7.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.92 MHz</td> <td>-0.27 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.75004 GHz	-12.79 dBm			T1	1		1.7502445 GHz	7.91 dBm	Occ Bw	4.510978044 MHz	T2	1		1.7547555 GHz	7.84 dBm			D1	M1	1	4.92 MHz	-0.27 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.75004 GHz</td> <td>-13.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7502445 GHz</td> <td>6.56 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7547555 GHz</td> <td>8.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.94 MHz</td> <td>-1.25 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.75004 GHz	-13.47 dBm			T1	1		1.7502445 GHz	6.56 dBm	Occ Bw	4.510978044 MHz	T2	1		1.7547555 GHz	8.10 dBm			D1	M1	1	4.94 MHz	-1.25 dB		
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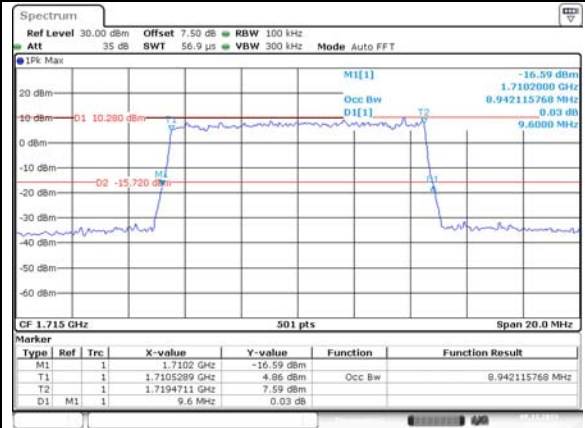
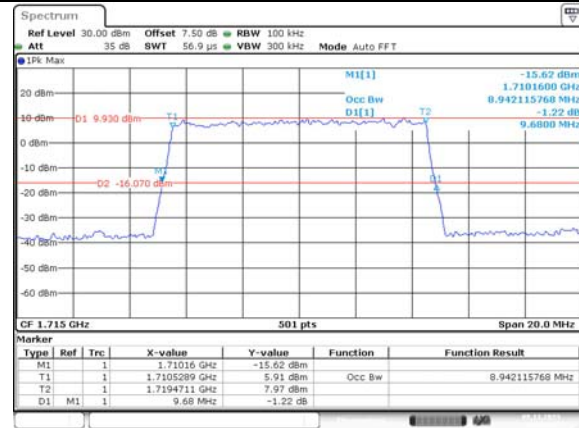
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

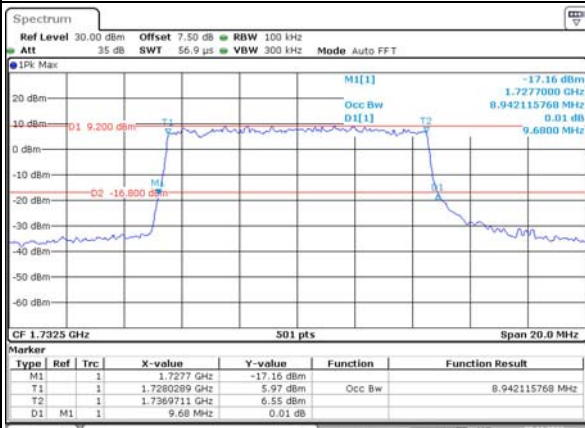
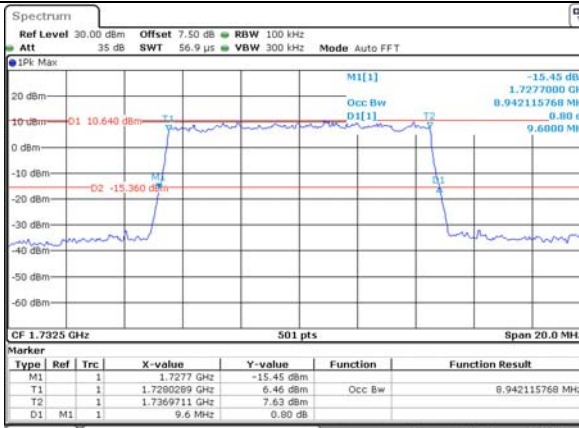
Lowest



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Date: 8.NOV.2023 03:32:58

ProjectNo.:CR231061271 Testers:One Luo
Date: 8.NOV.2023 03:33:23

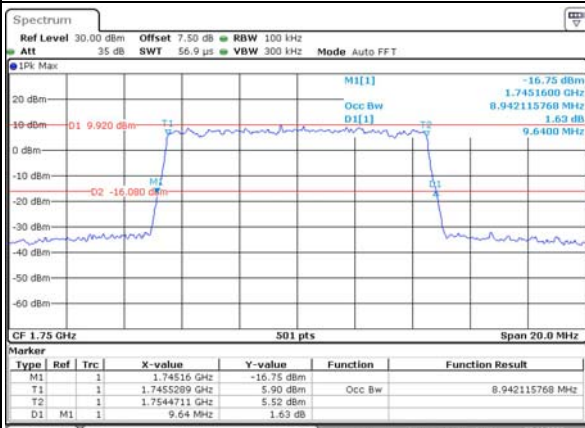
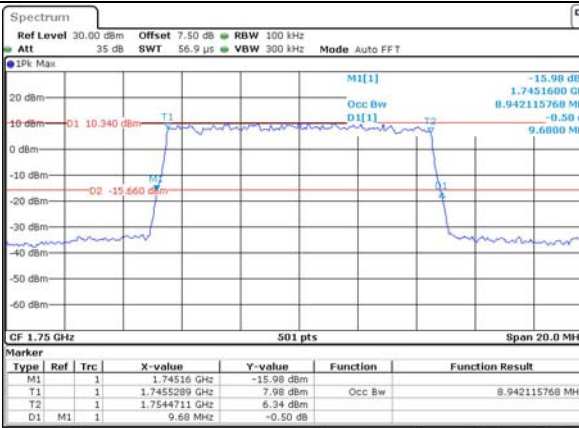
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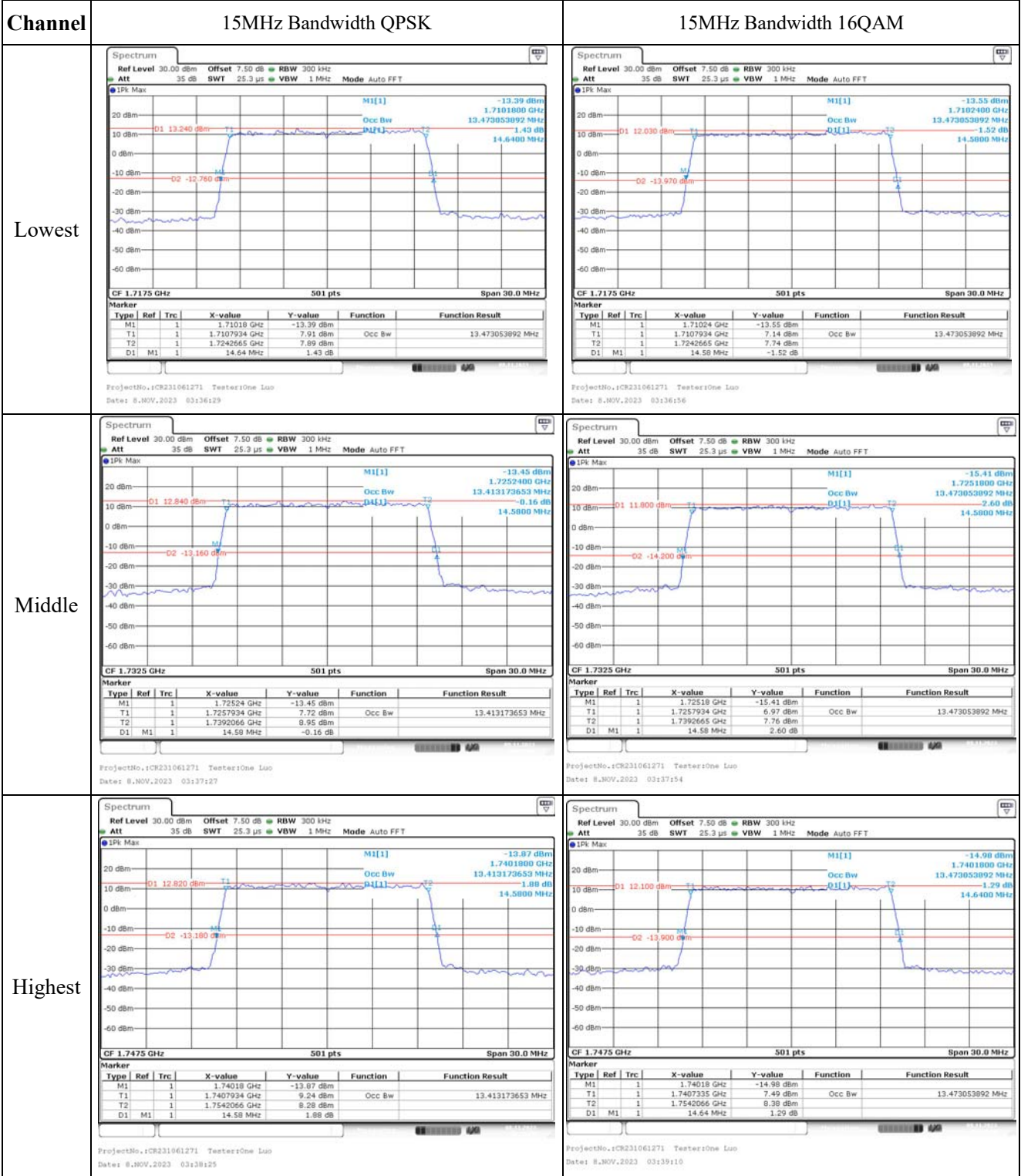
Highest



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Occupied Bandwidth



Occupied Bandwidth

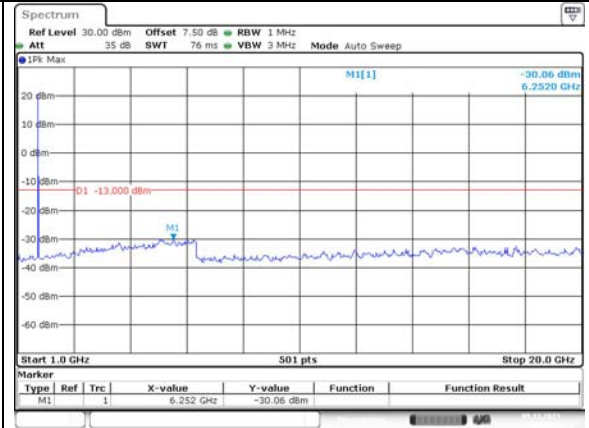
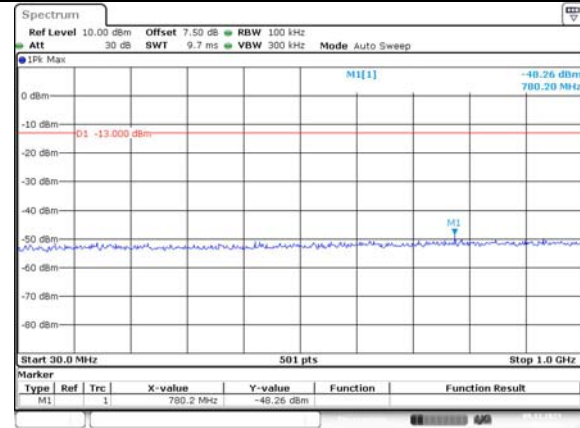
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Middle	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 03:53:32</p>	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 03:54:06</p>
Highest	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 03:54:41</p>	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 8.NOV.2023 03:55:21</p>

Spurious Emissions at Antenna Terminal

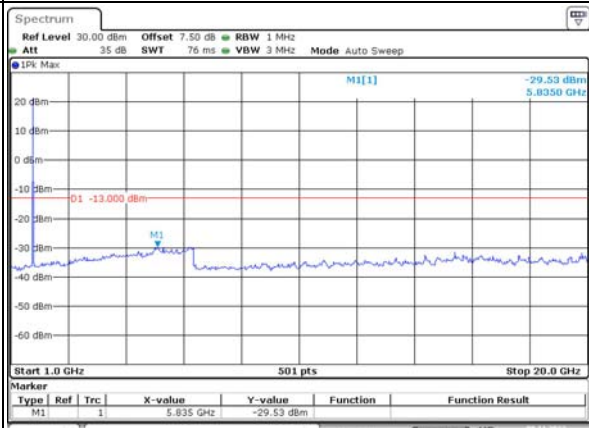
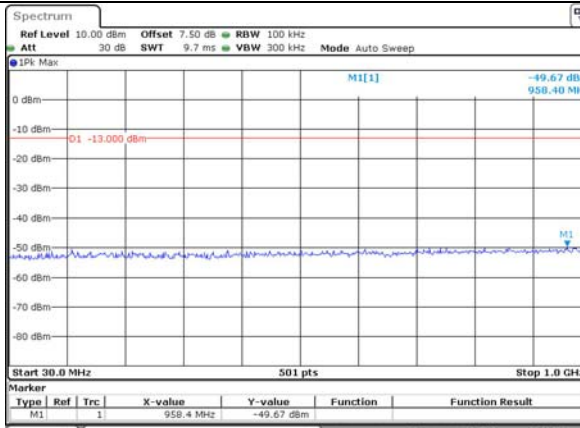
Channel

1.4MHz Bandwidth QPSK

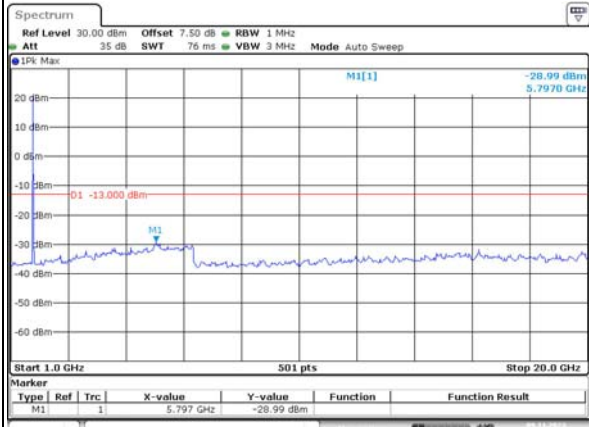
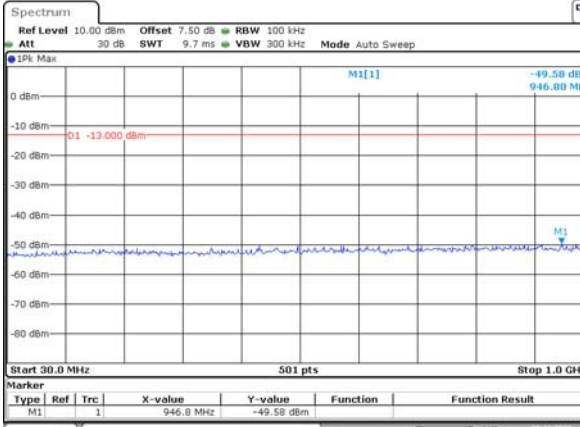
Lowest



Middle



Highest

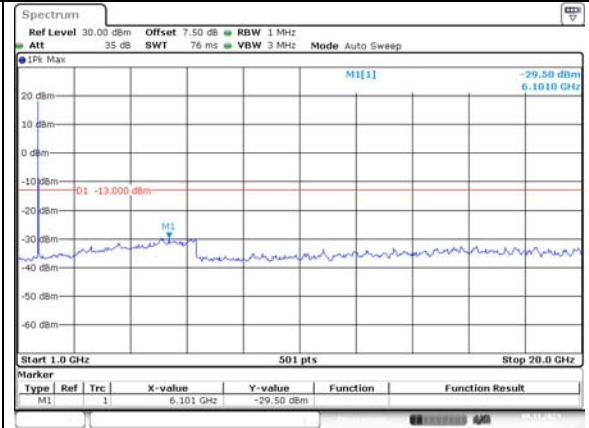
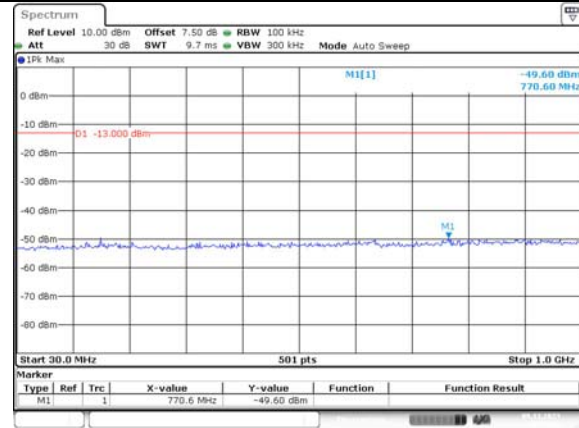


Spurious Emissions at Antenna Terminal

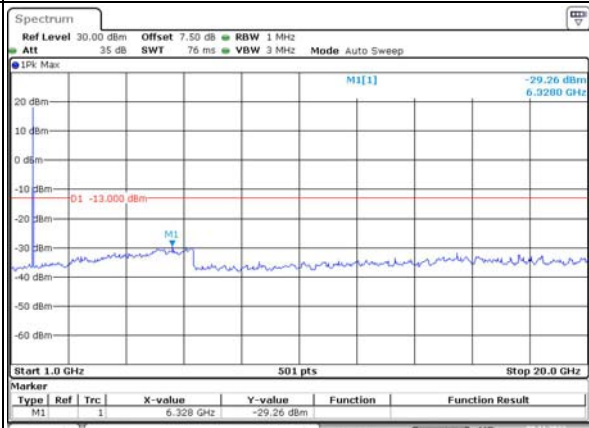
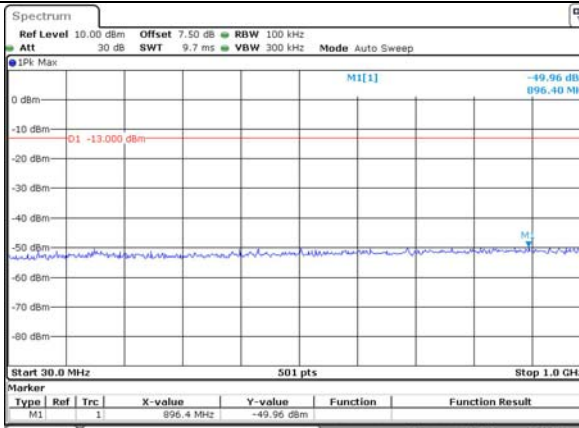
Channel

3MHz Bandwidth QPSK

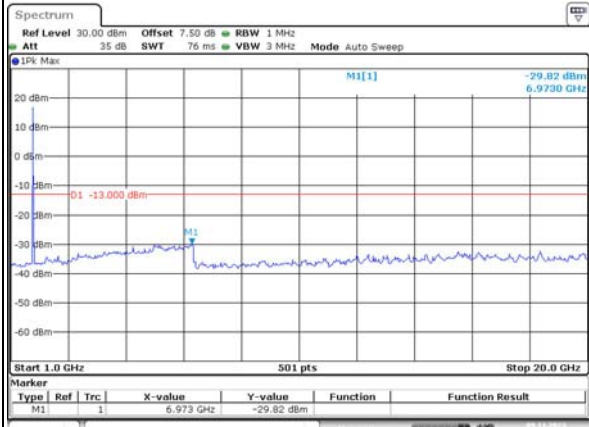
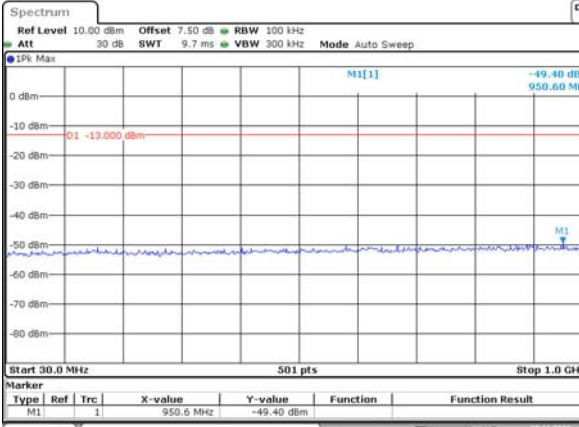
Lowest



Middle



Highest

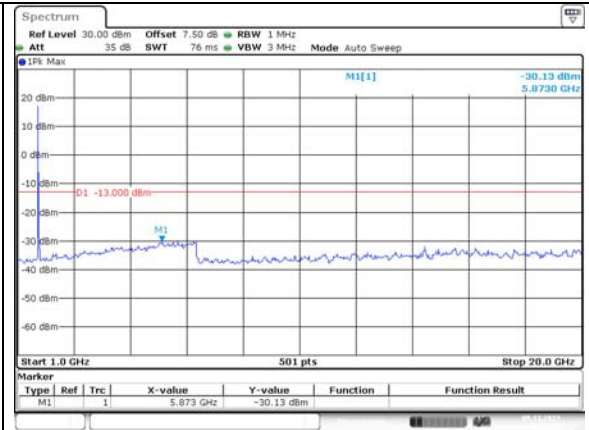
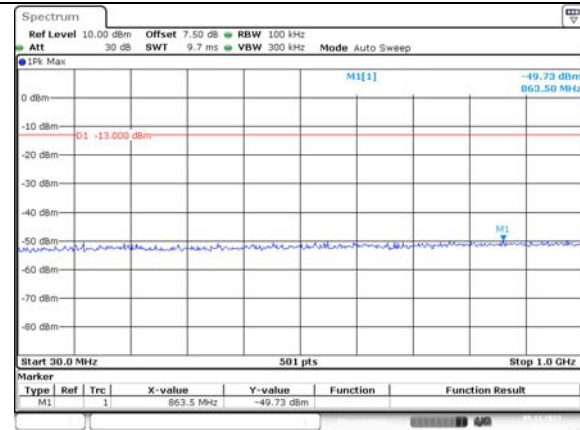


Spurious Emissions at Antenna Terminal

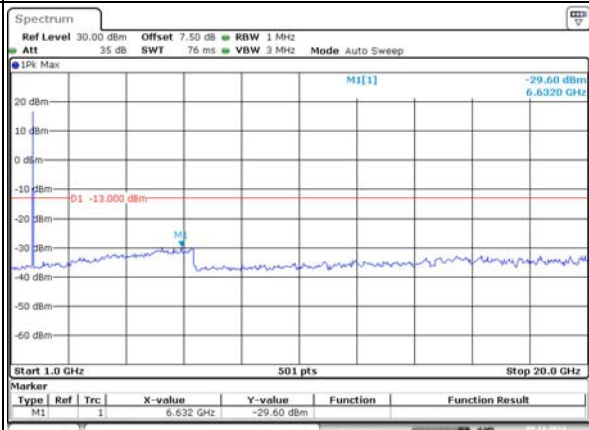
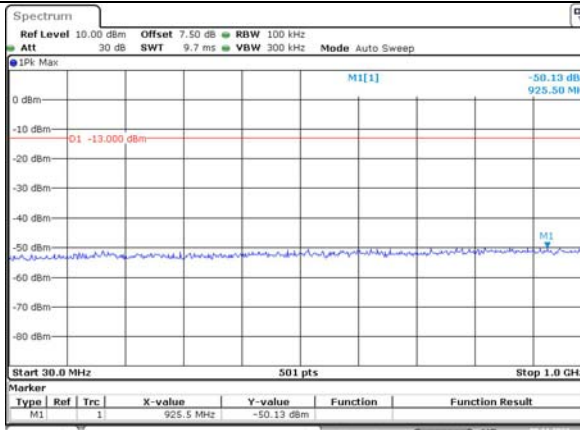
Channel

5MHz Bandwidth QPSK

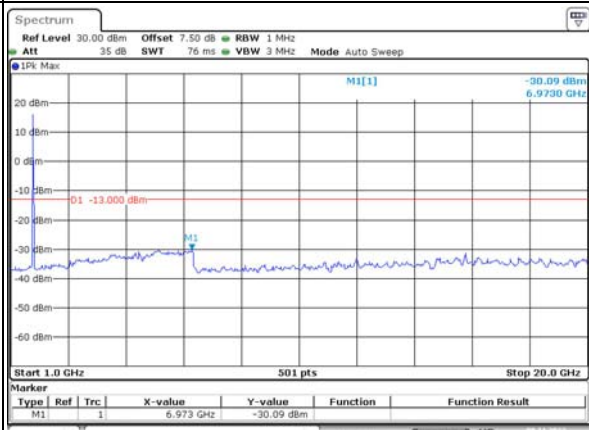
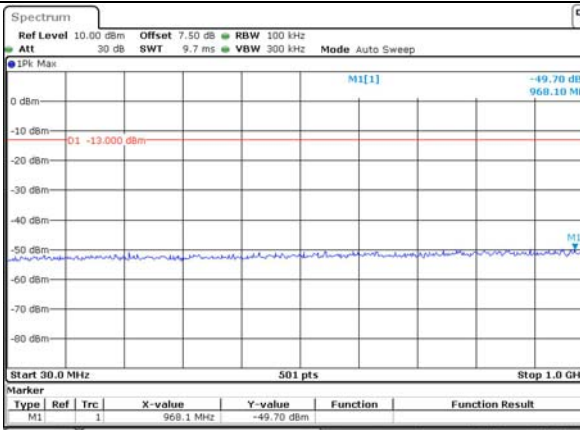
Lowest



Middle



Highest

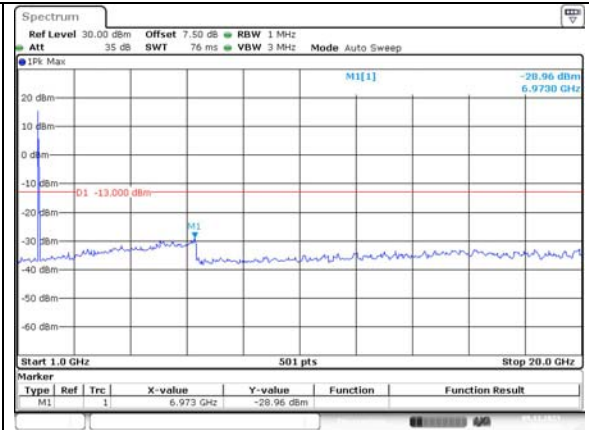
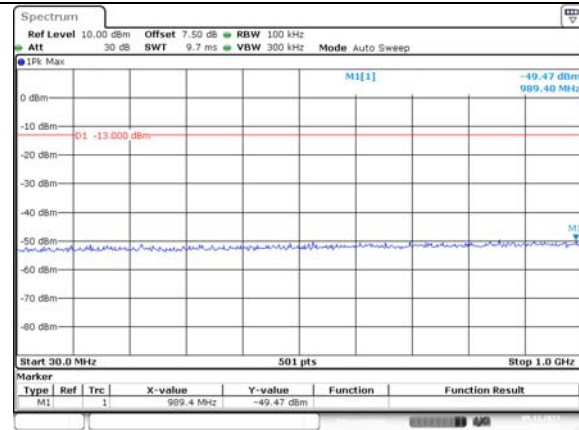


Spurious Emissions at Antenna Terminal

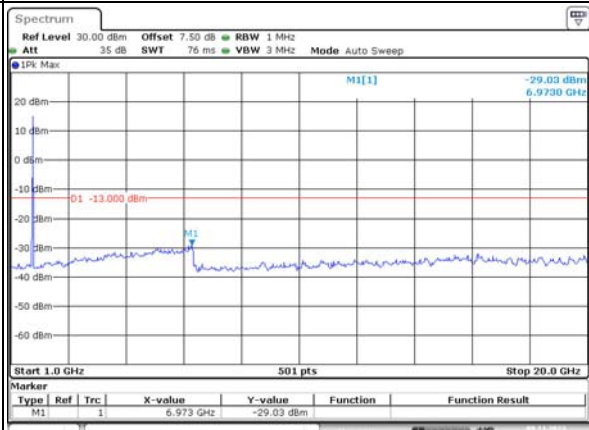
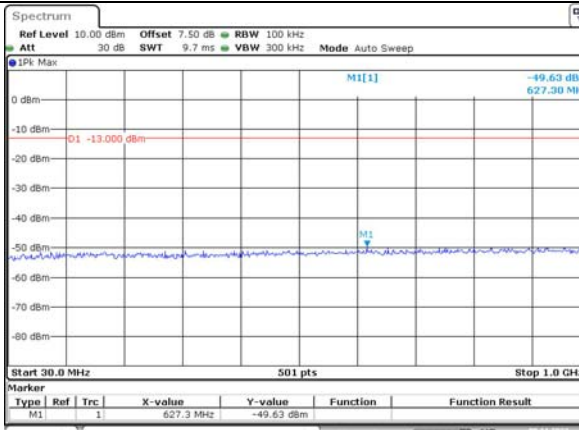
Channel

10MHz Bandwidth QPSK

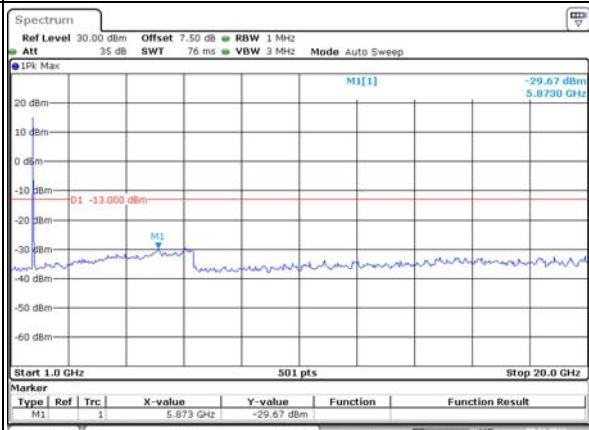
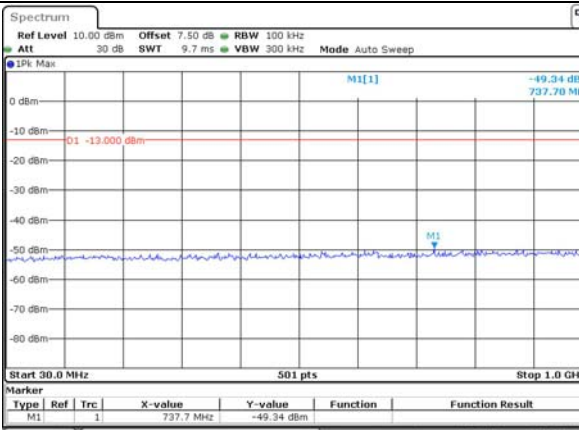
Lowest



Middle



Highest



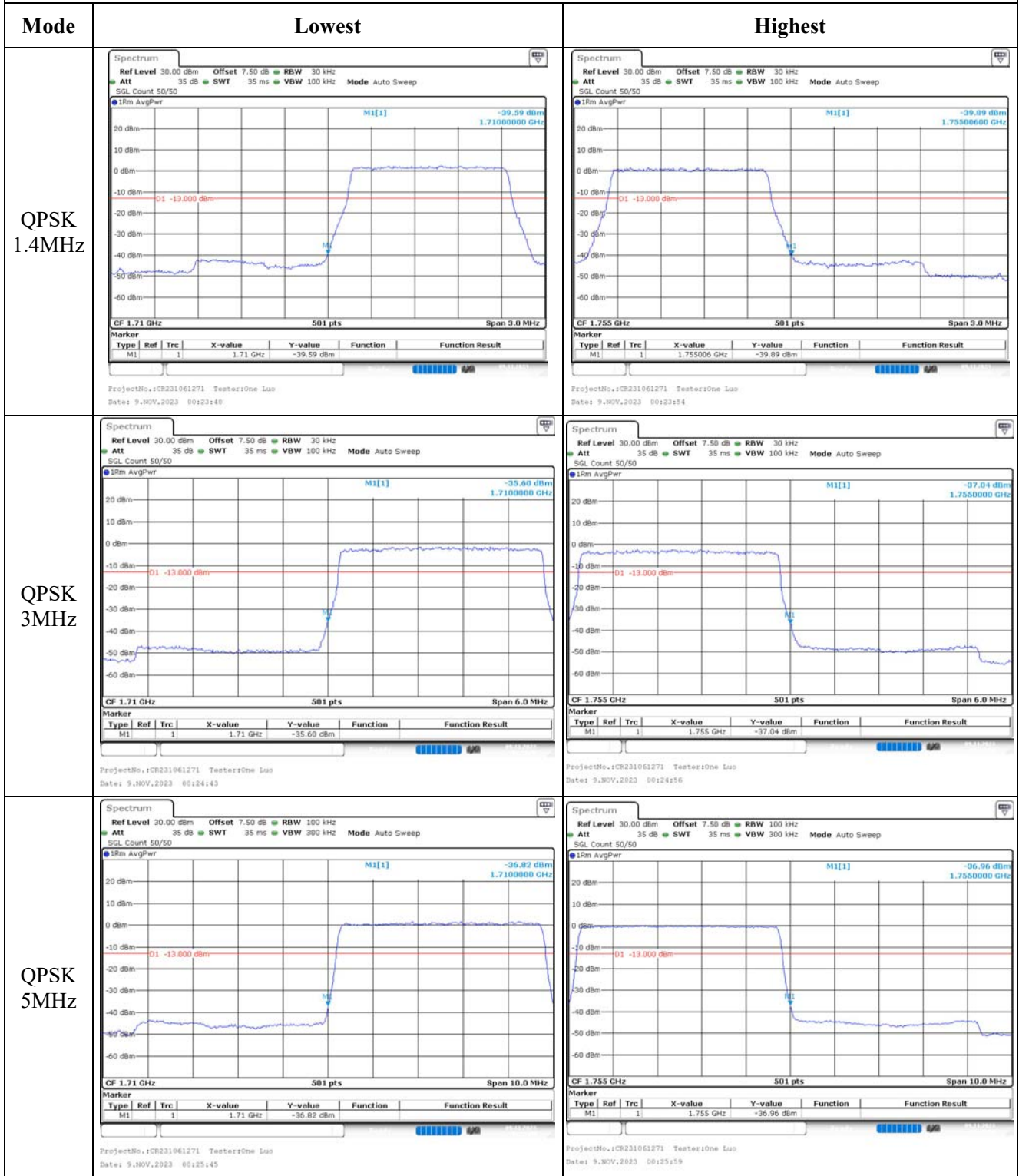
Spurious Emissions at Antenna Terminal

Channel	15MHz Bandwidth QPSK																													
Lowest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.76 dBm 753.19 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>753.1 MHz</td> <td>-49.70 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:54:12</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	753.1 MHz	-49.70 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -29.67 dBm 5.873 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>5.873 GHz</td> <td>-29.67 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:54:13</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	5.873 GHz	-29.67 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	753.1 MHz	-49.70 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
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Middle	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.95 dBm 915.80 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>915.8 MHz</td> <td>-49.95 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:55:01</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	915.8 MHz	-49.95 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.26 dBm 6.783 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>6.783 GHz</td> <td>-30.26 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:55:26</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.783 GHz	-30.26 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	915.8 MHz	-49.95 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.783 GHz	-30.26 dBm																										
Highest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.92 dBm 760.9 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>760.9 MHz</td> <td>-49.92 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:56:02</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	760.9 MHz	-49.92 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.31 dBm 6.759 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>6.759 GHz</td> <td>-30.31 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 TestersOne Luo Date: 9.NOV.2023 00:56:24</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.759 GHz	-30.31 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.759 GHz	-30.31 dBm																										

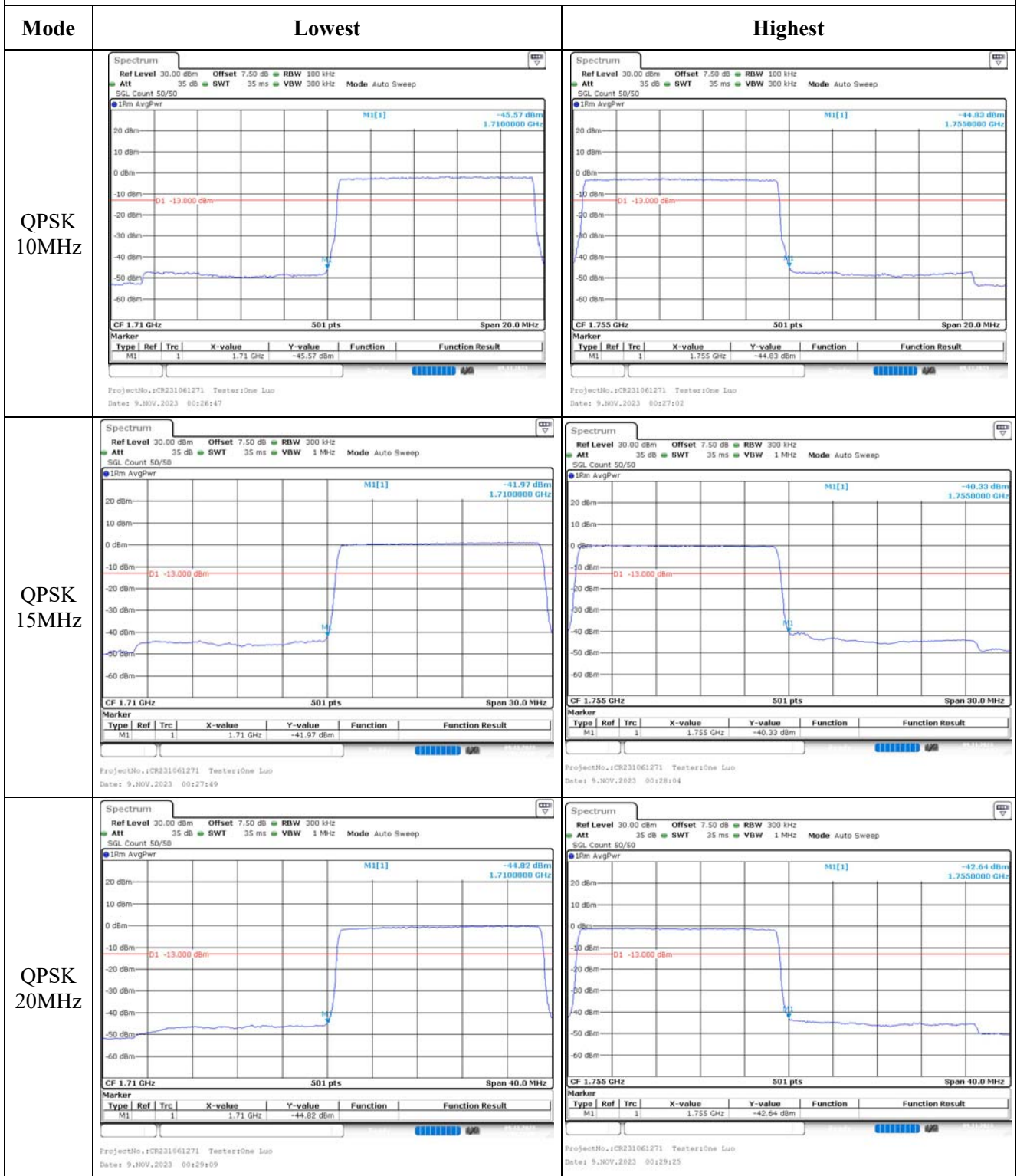
Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK																													
Lowest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.49 dBm 983.59 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>983.5 MHz</td> <td>-49.49 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 00:57:30</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	983.5 MHz	-49.49 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -29.44 dBm 6.8590 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>6.859 GHz</td> <td>-29.44 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 00:57:58</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.859 GHz	-29.44 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
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Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.859 GHz	-29.44 dBm																										
Middle	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -50.12 dBm 898.40 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>898.4 MHz</td> <td>-50.12 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 00:58:25</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	898.4 MHz	-50.12 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.16 dBm 6.7460 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>6.746 GHz</td> <td>-30.16 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 00:58:50</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.746 GHz	-30.16 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	898.4 MHz	-50.12 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.746 GHz	-30.16 dBm																										
Highest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -49.59 dBm 629.20 MHz</p> <p>01 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>629.2 MHz</td> <td>-49.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 00:59:17</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	629.2 MHz	-49.59 dBm			<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.01 dBm 6.8970 GHz</p> <p>01 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>6.897 GHz</td> <td>-30.01 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 00:59:36</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.897 GHz	-30.01 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	629.2 MHz	-49.59 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.897 GHz	-30.01 dBm																										

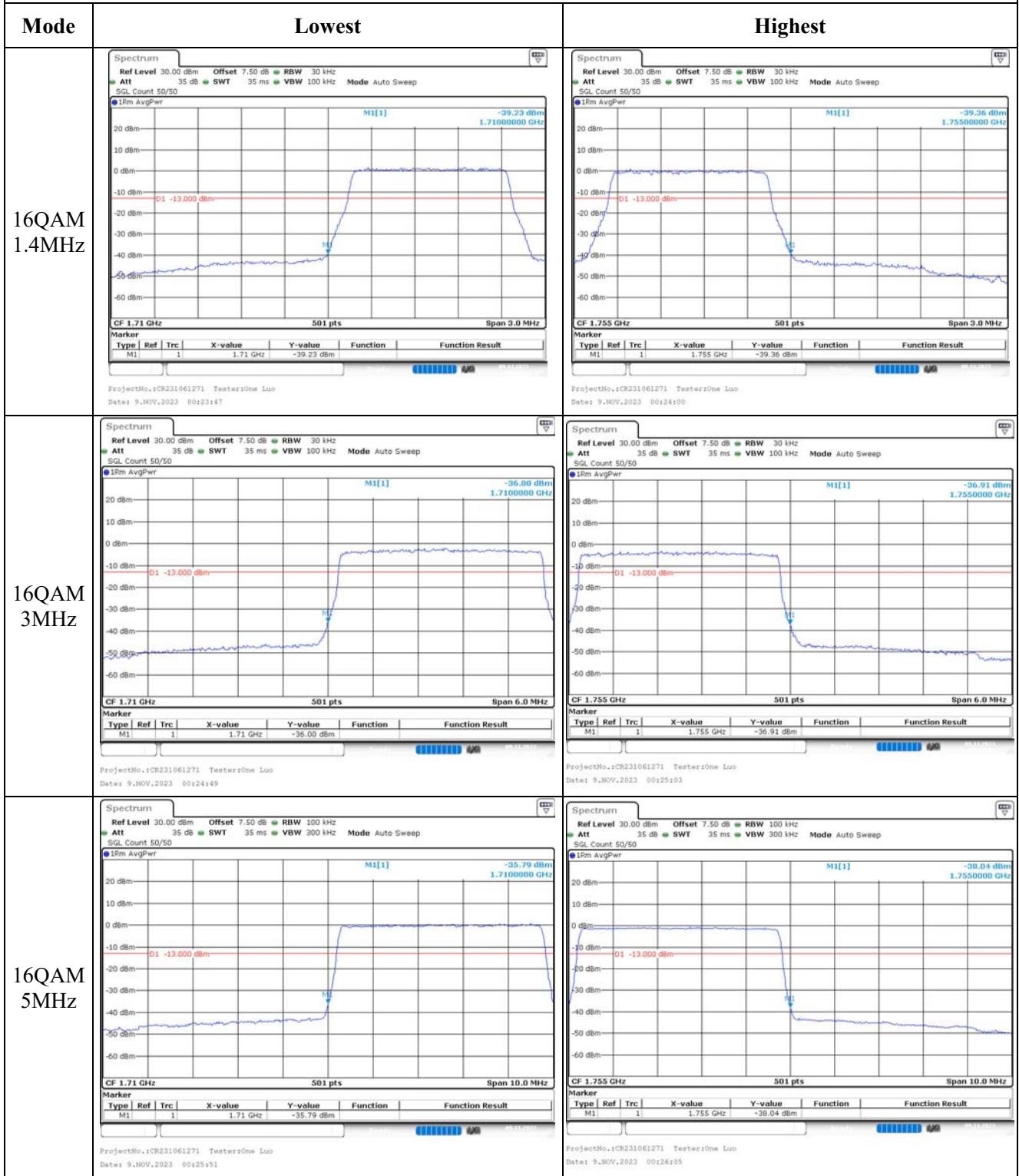
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

4.8 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	2CGI-2	Test Date:	2023/11/7~2023/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	42~49	ATM Pressure: (kPa)	101~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

Test Data:

RF Output Power						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	21.88	22.07	22.06	12.87	38.45
	RB1#3	21.71	22.11	21.96		
	RB1#5	21.55	21.66	21.58		
	RB3#0	21.52	21.93	22.06		
	RB3#3	21.52	21.56	21.85		
	RB6#0	21.38	21.48	21.73		
1.4MHz 16QAM	RB1#0	21.35	21.76	21.62	12.52	38.45
	RB1#3	21.16	21.7	21.61		
	RB1#5	20.99	21.33	21.56		
	RB3#0	20.86	21.19	21.18		
	RB3#3	20.77	20.83	21.28		
	RB6#0	20.75	21.28	20.97		
3MHz QPSK	RB1#0	20.65	20.78	21.15	13.08	38.45
	RB1#8	20.53	20.5	20.76		
	RB1#14	20.49	20.63	20.7		
	RB6#0	21.88	21.95	22.32		
	RB6#9	21.72	21.74	22.23		
	RB15#0	21.64	21.87	22.02		
3MHz 16QAM	RB1#0	21.49	21.68	21.7	12.72	38.45
	RB1#8	21.44	21.93	21.56		
	RB1#14	21.4	21.83	21.96		
	RB6#0	21.36	21.58	21.59		
	RB6#9	21.32	21.5	21.72		
	RB15#0	21.27	21.47	21.46		
5MHz QPSK	RB1#0	21.16	21.2	21.59	12.35	38.45
	RB1#13	21.06	21.33	21.12		
	RB1#24	20.92	20.88	21.2		
	RB15#0	20.73	21.04	20.81		
	RB15#10	20.67	20.68	21.07		
	RB25#0	20.55	20.66	21.06		
5MHz 16QAM	RB1#0	21.88	21.85	22.46	13.24	38.45
	RB1#13	21.82	21.93	21.93		
	RB1#24	21.88	22.28	22.48		
	RB15#0	21.88	21.95	22.02		
	RB15#10	21.85	22.03	21.87		
	RB25#0	21.7	22.15	22.09		
10MHz QPSK	RB1#0	21.69	21.89	21.7	12.7	38.45
	RB1#25	21.54	21.75	21.86		

	RB1#49	21.53	21.68	21.58		
	RB25#0	21.45	21.52	21.94		
	RB25#25	21.35	21.83	21.74		
	RB50#0	21.17	21.35	21.49		
10MHz 16QAM	RB1#0	21.12	21.17	21.48	12.24	38.45
	RB1#25	20.98	21.28	21.14		
	RB1#49	20.94	20.94	21.04		
	RB25#0	20.79	21.02	21.19		
	RB25#25	20.77	20.96	20.8		
	RB50#0	20.76	20.78	20.92		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

Result:**Pass****Peak-to-average Ratio(PAR)**

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	4.14	4.67	4.96	13
	RB50#0	5.1	5.07	5.04	13
10MHz 16QAM	RB1#0	5.01	5.62	5.65	13
	RB50#0	6.06	6.03	6.06	13
				Result:	Pass

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.09	1.102	1.102	1.29	1.296	1.308
1.4MHz 16QAM	1.102	1.09	1.096	1.302	1.272	1.284
3MHz QPSK	2.683	2.683	2.683	2.916	2.928	2.94
3MHz 16QAM	2.671	2.683	2.683	2.94	2.928	2.928
5MHz QPSK	4.511	4.511	4.491	4.94	4.96	4.94
5MHz 16QAM	4.511	4.531	4.531	4.92	4.92	4.94
10MHz QPSK	8.942	8.942	8.942	9.64	9.6	9.6
10MHz 16QAM	8.942	8.942	8.942	9.6	9.64	9.64

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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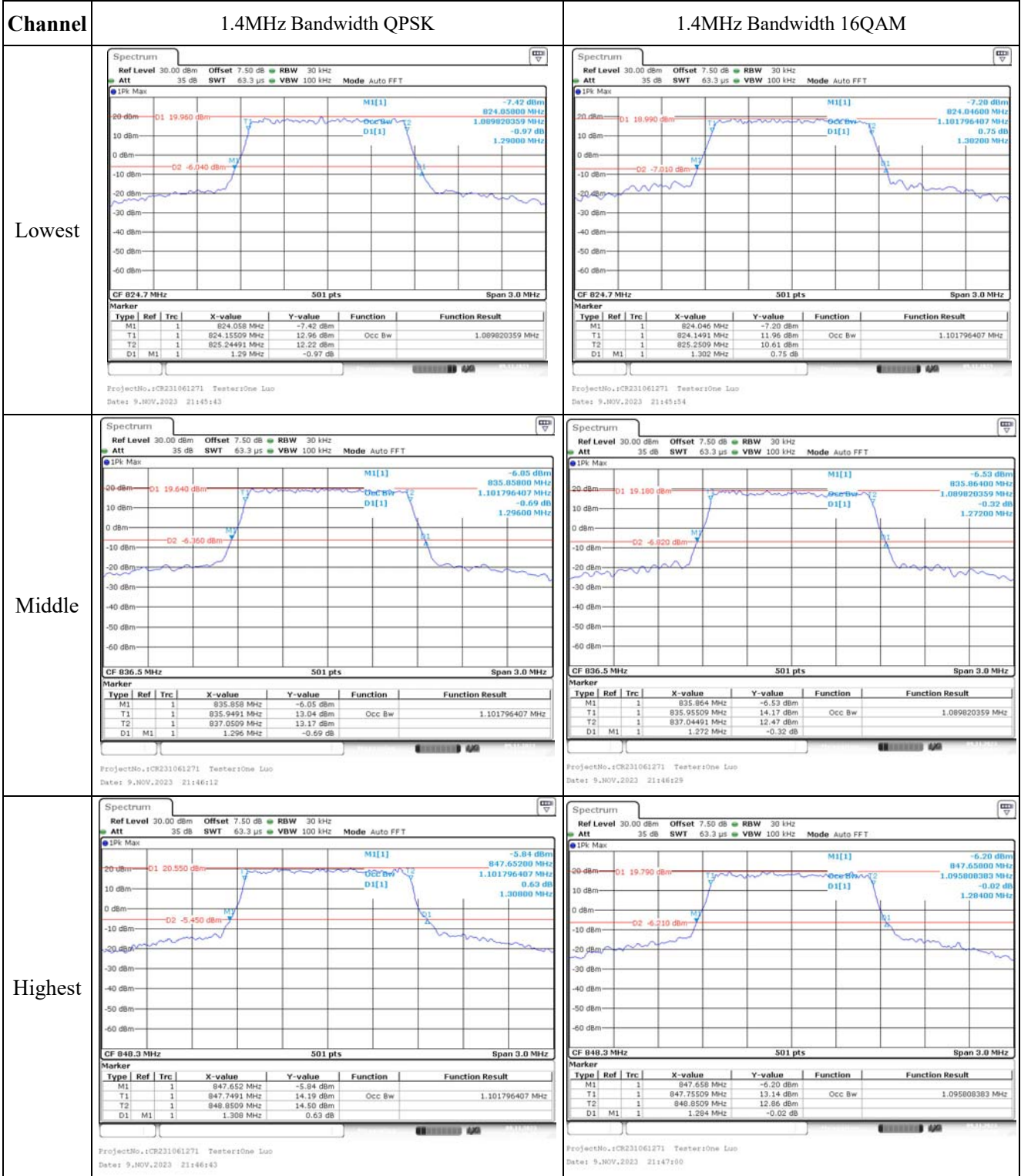
Frequency Stability

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	-3.2	-0.004	2.5
	-20	3.91	-9.97	-0.012	2.5
	-10	3.91	-6.13	-0.007	2.5
	0	3.91	6.17	0.007	2.5
	10	3.91	7.92	0.009	2.5
	20	3.91	6.46	0.008	2.5
	30	3.91	-6.52	-0.008	2.5
	40	3.91	7.18	0.009	2.5
Frequency Stability vs. Voltage	50	3.91	-9.69	-0.012	2.5
	20	3.45	-8.17	-0.010	2.5
	20	4.5	-7.05	-0.008	2.5
				Result:	Pass

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	-1.53	-0.002	2.5
	-20	3.91	-6.68	-0.008	2.5
	-10	3.91	9.77	0.012	2.5
	0	3.91	-7.62	-0.009	2.5
	10	3.91	-9.91	-0.012	2.5
	20	3.91	-9.82	-0.012	2.5
	30	3.91	-6.68	-0.008	2.5
	40	3.91	-8.85	-0.011	2.5
Frequency Stability vs. Voltage	50	3.91	5.67	0.007	2.5
	20	3.45	6.05	0.007	2.5
	20	4.5	7.52	0.009	2.5
				Result:	Pass

Test Plots (Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

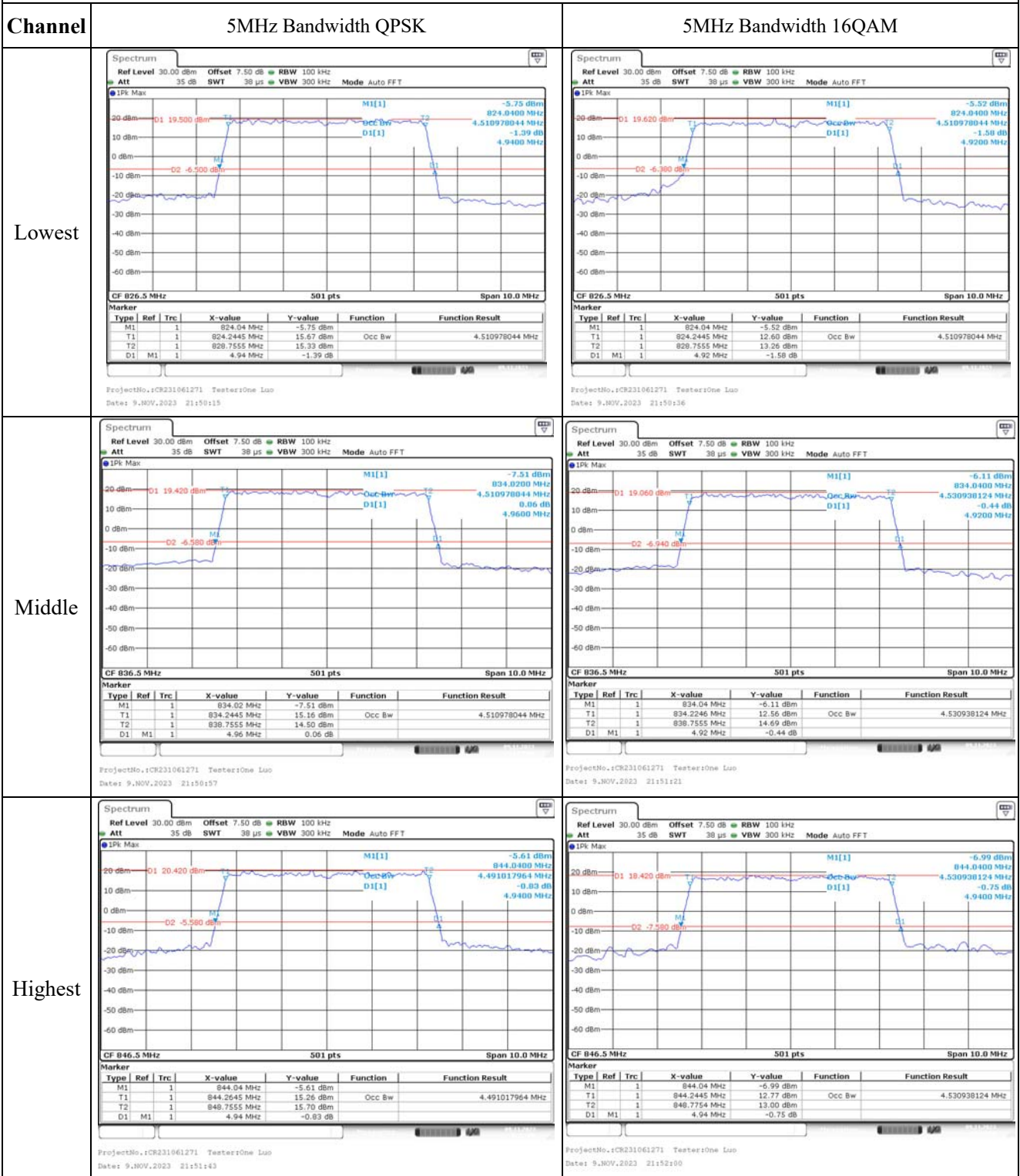
Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
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Middle	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 21:48:34</p>	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 21:48:48</p>
Highest	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 21:49:03</p>	<p>ProjectNo.:CR231061271 Tester:One Luo Date: 9.NOV.2023 21:49:20</p>

Occupied Bandwidth



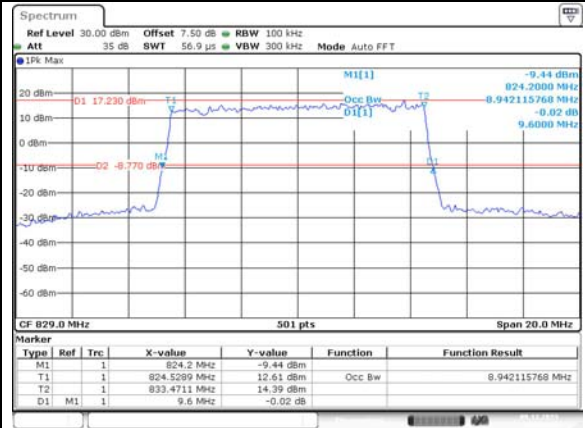
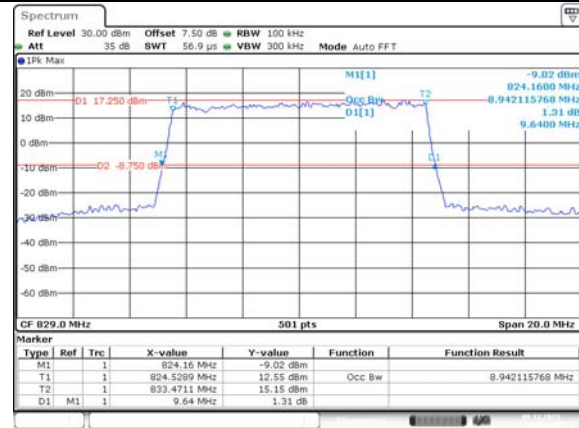
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

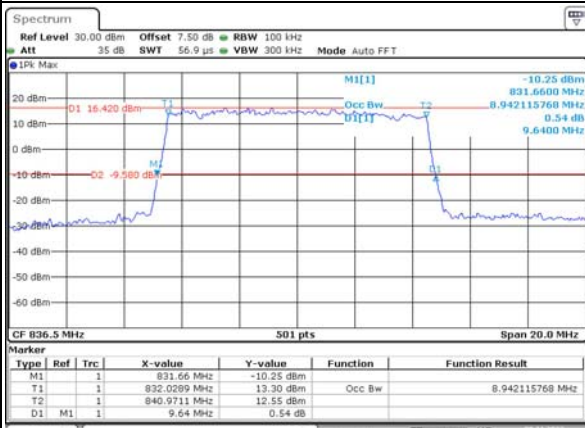
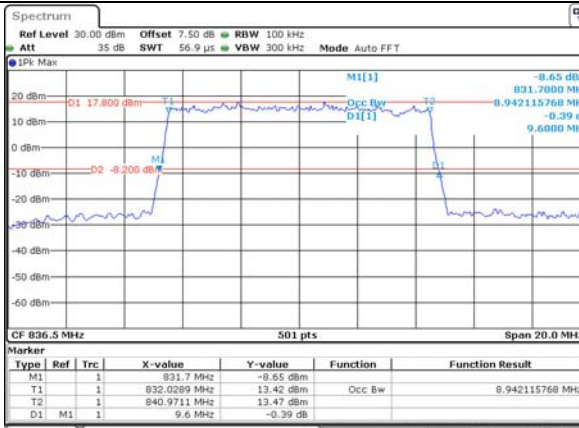
Lowest



ProjectNo.:CR231061271 Testers:One Luo
Date: 9.NOV.2023 21:53:25

ProjectNo.:CR231061271 Testers:One Luo
Date: 9.NOV.2023 21:53:49

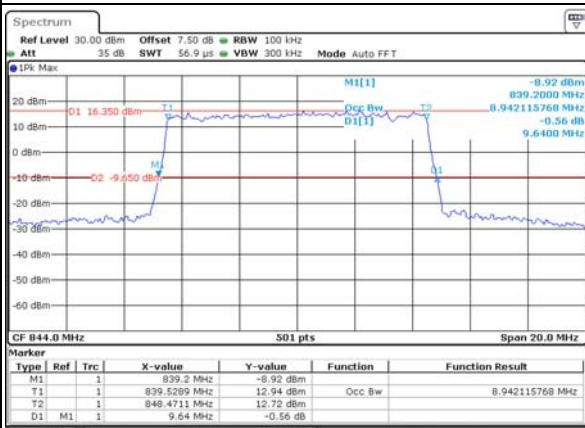
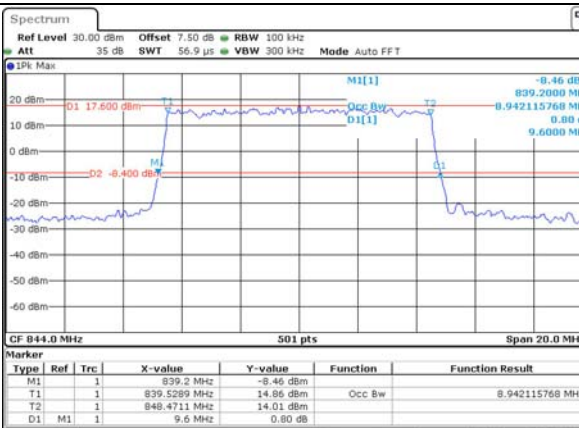
Middle



ProjectNo.:CR231061271 Testers:One Luo
Date: 9.NOV.2023 21:54:12

ProjectNo.:CR231061271 Testers:One Luo
Date: 9.NOV.2023 21:54:33

Highest



ProjectNo.:CR231061271 Testers:One Luo
Date: 9.NOV.2023 21:54:53

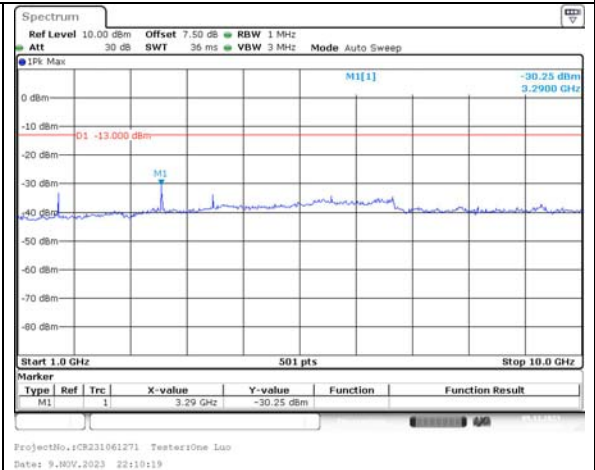
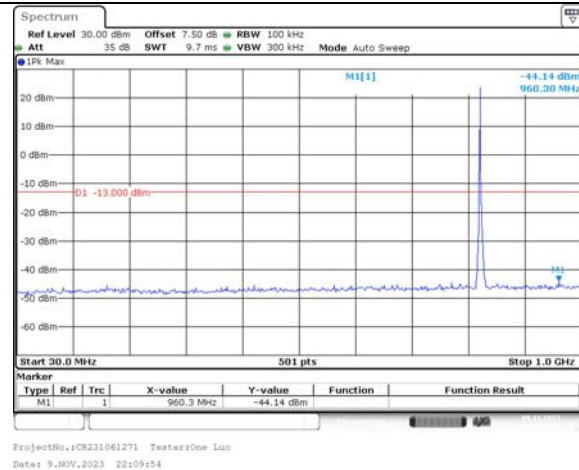
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Spurious Emissions at Antenna Terminal

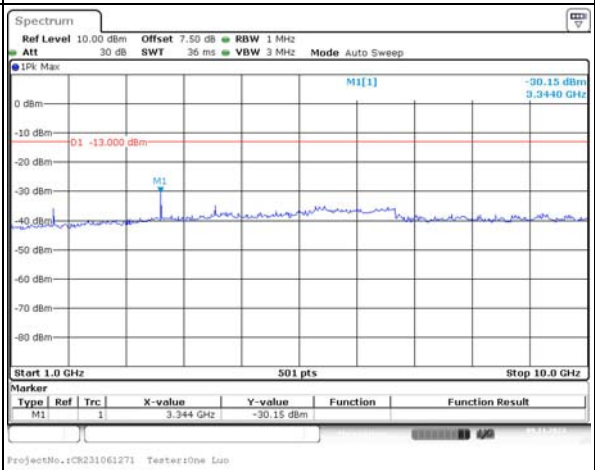
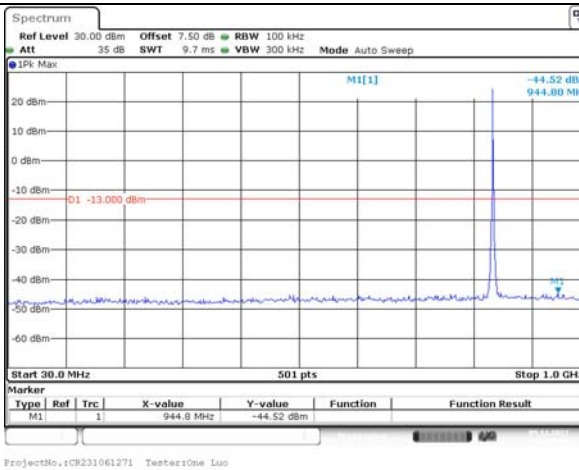
Channel

1.4MHz Bandwidth QPSK

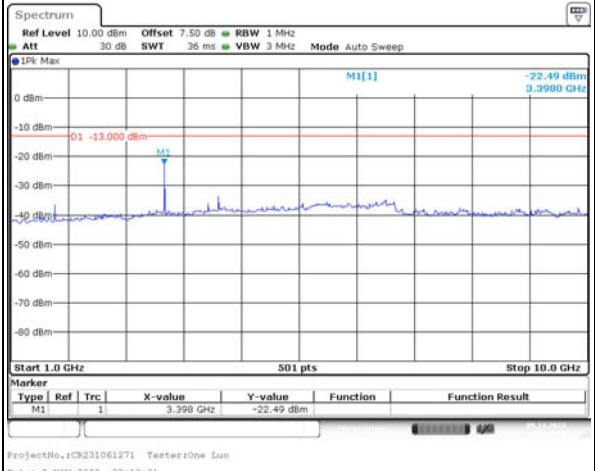
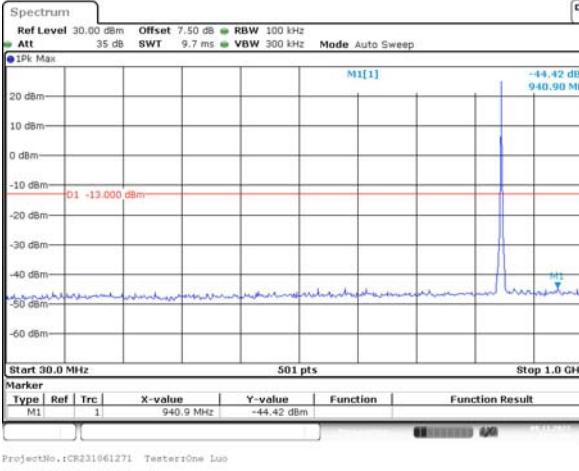
Lowest



Middle



Highest

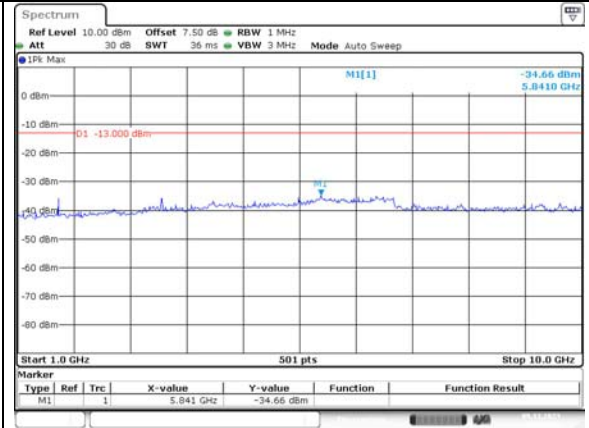
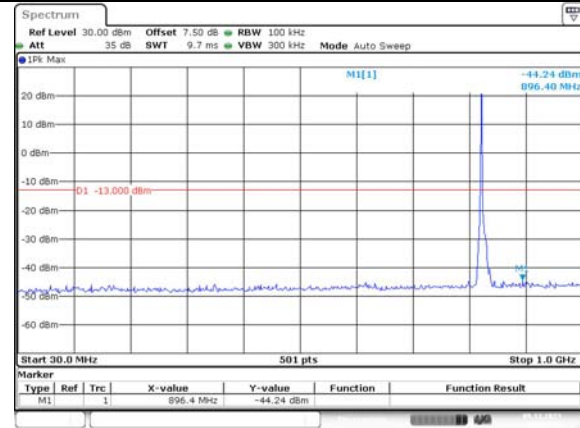


Spurious Emissions at Antenna Terminal

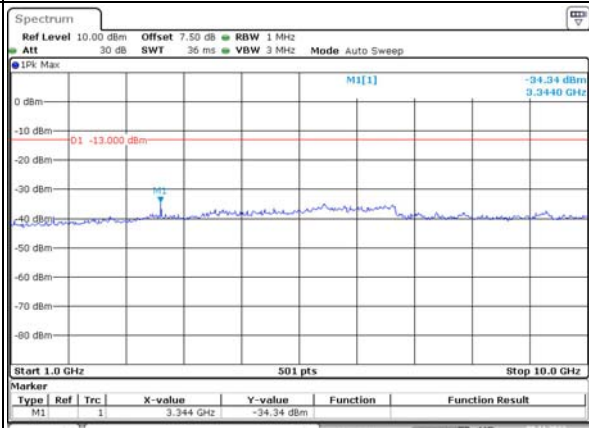
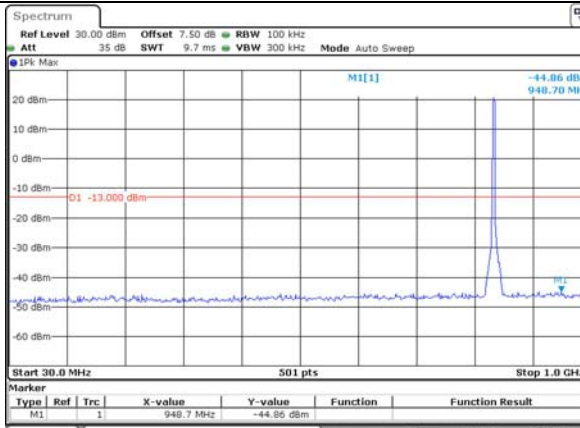
Channel

3MHz Bandwidth QPSK

Lowest



Middle



Highest

