

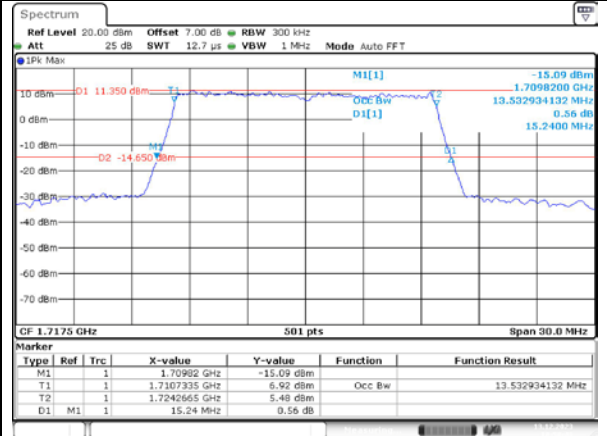
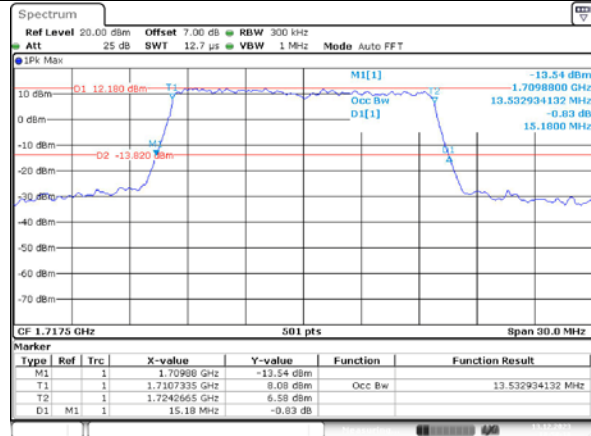
### Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

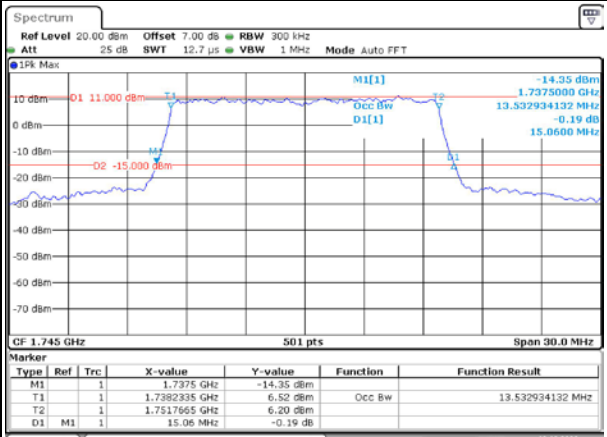
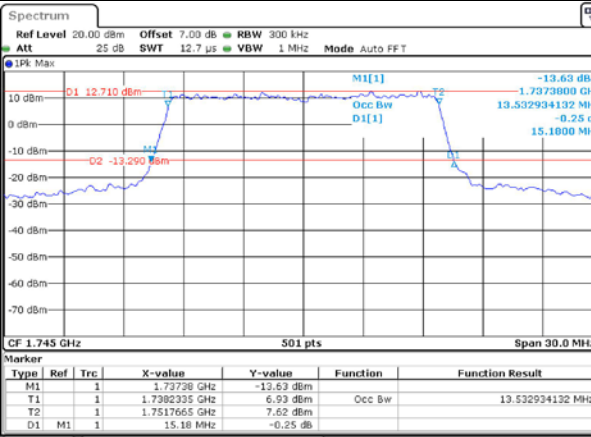
Lowest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 10:58:18

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 10:58:43

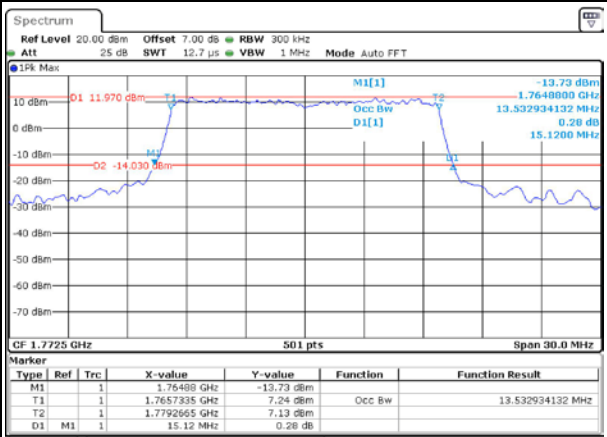
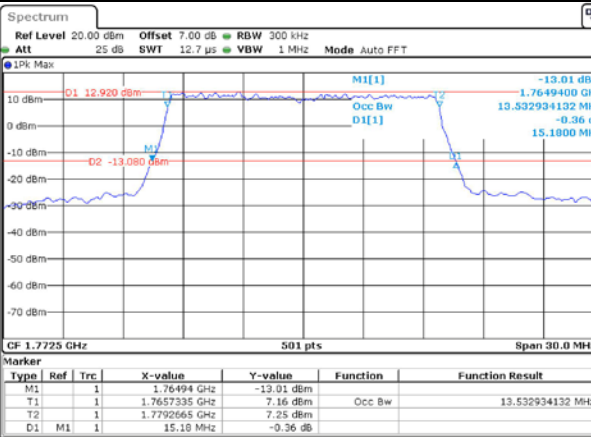
Middle



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 10:59:16

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 10:59:47

Highest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:00:16

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:00:47

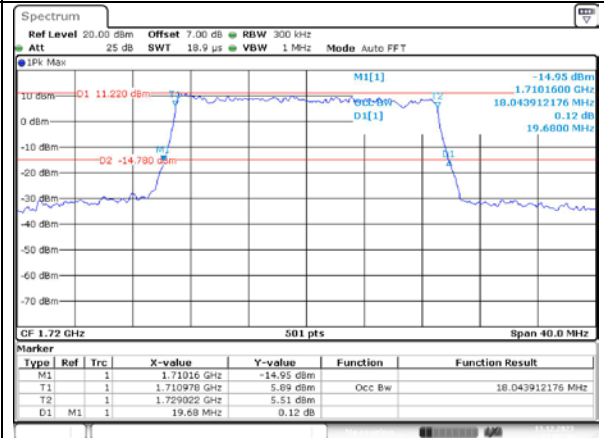
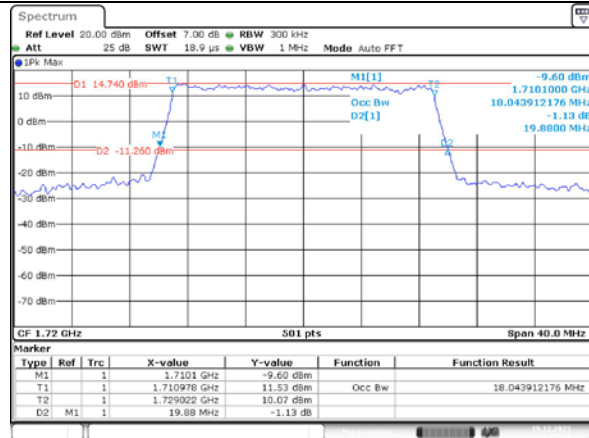
### Occupied Bandwidth

Channel

20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

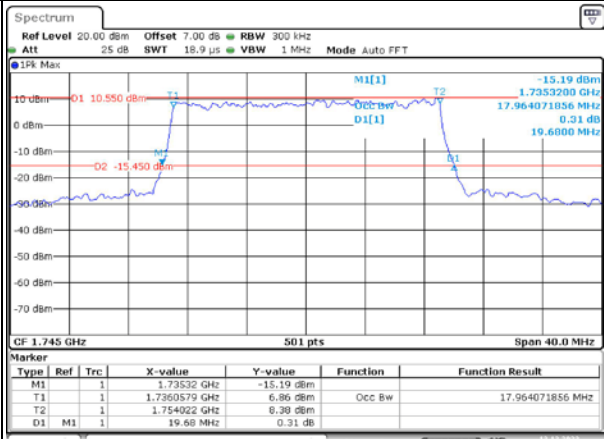
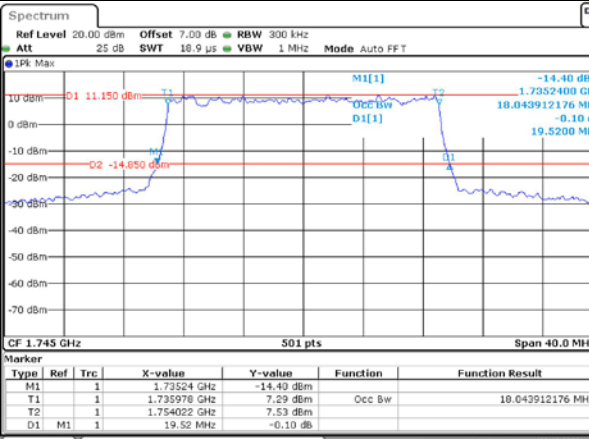
Lowest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 19.DEC.2023 16:37:41

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:02:44

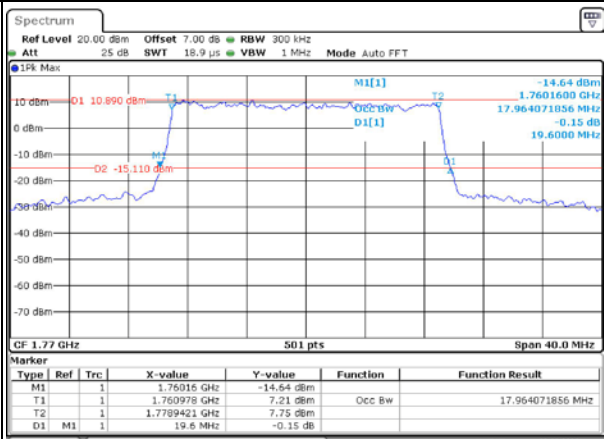
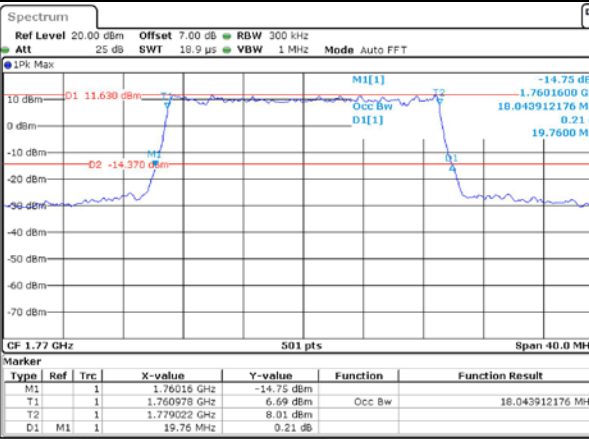
Middle



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:03:13

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:03:44

Highest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:04:23

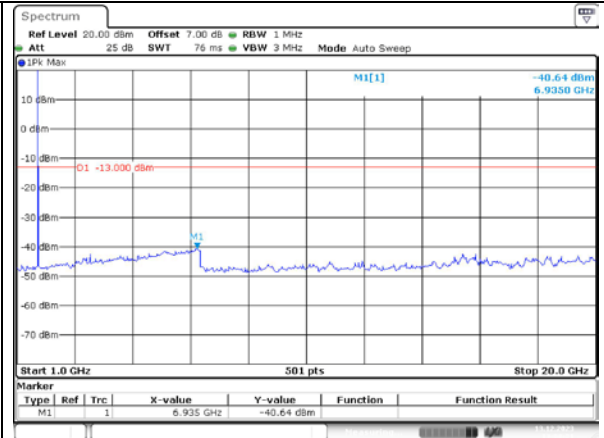
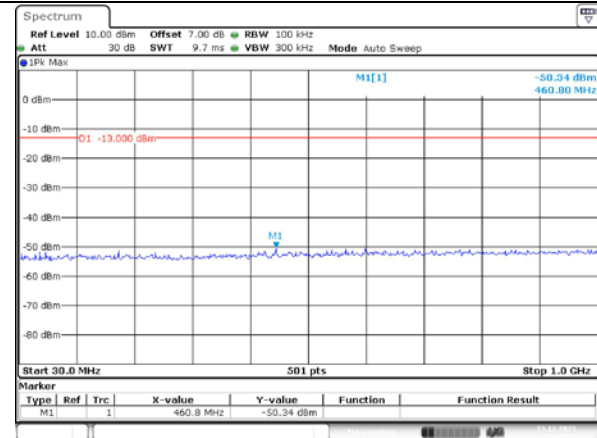
ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13.DEC.2023 11:04:54

### Spurious Emissions at Antenna Terminal

Channel

1.4MHz Bandwidth QPSK

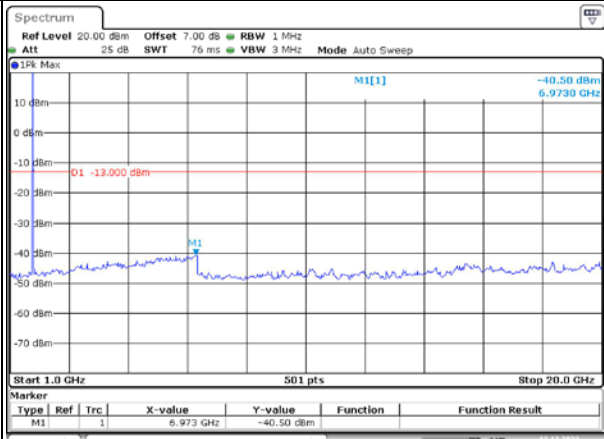
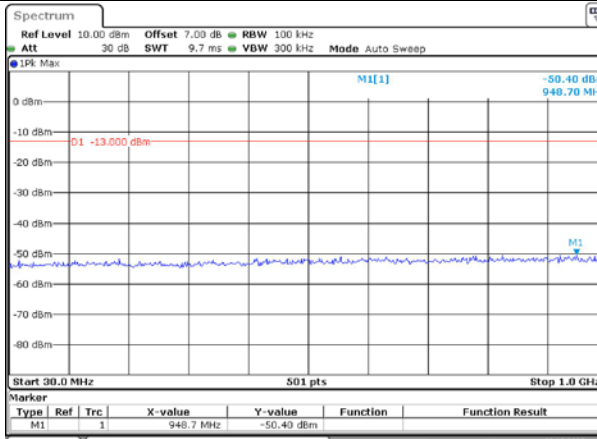
Lowest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:07:59

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:08:21

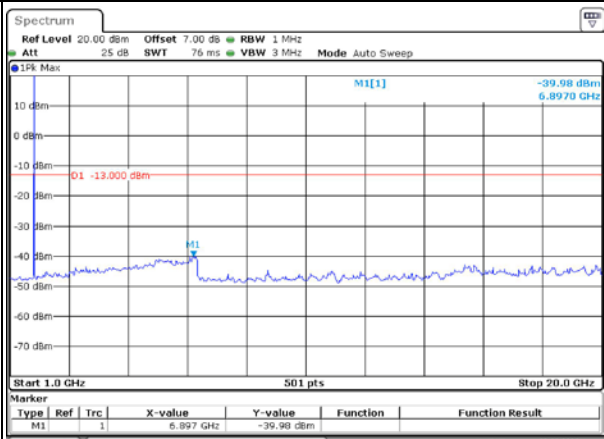
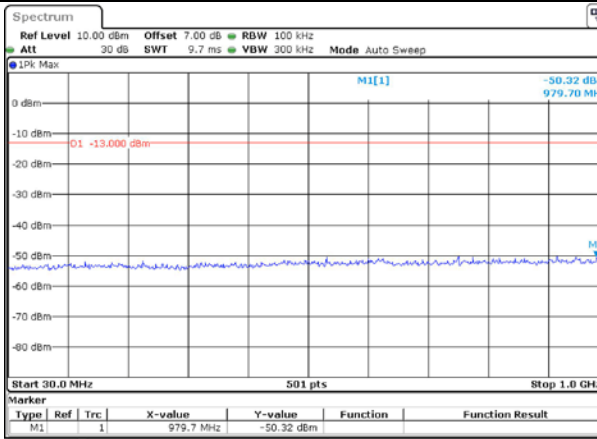
Middle



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:09:41

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:10:00

Highest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:10:29

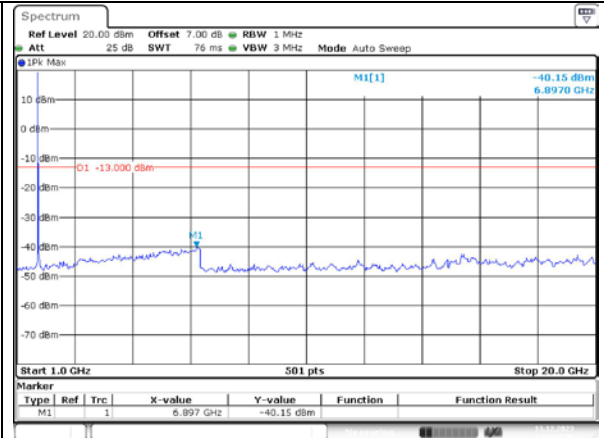
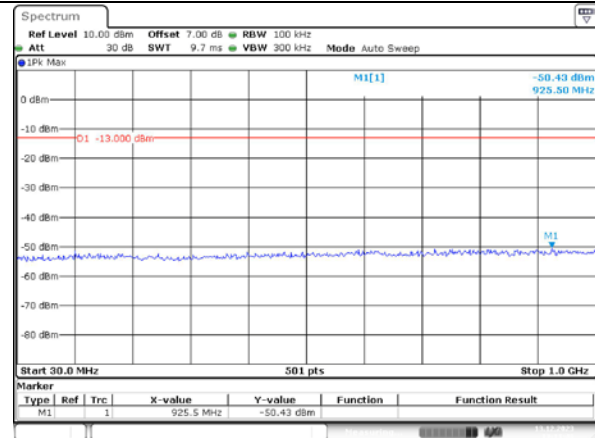
ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:10:51

### Spurious Emissions at Antenna Terminal

Channel

3MHz Bandwidth QPSK

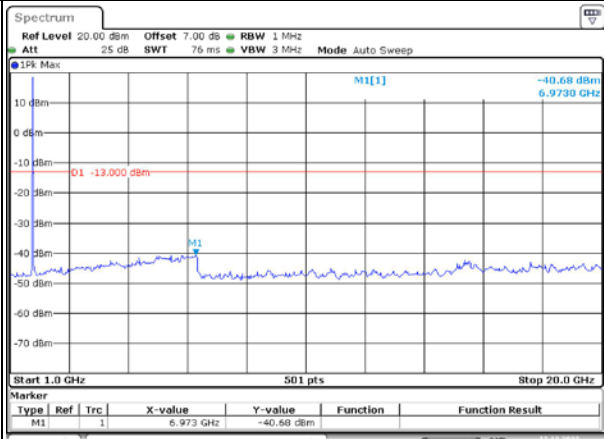
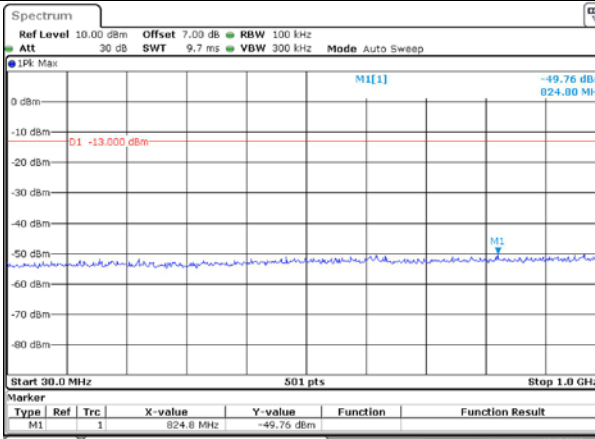
Lowest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:11:43

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:12:08

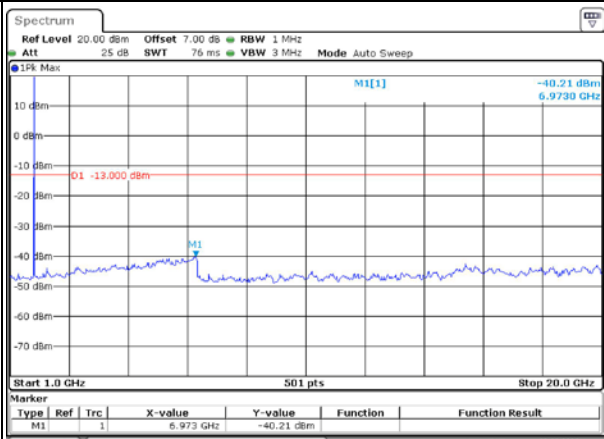
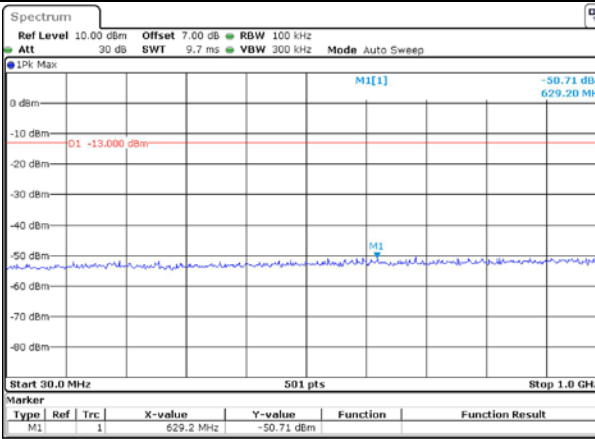
Middle



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:12:37

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:13:06

Highest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:13:38

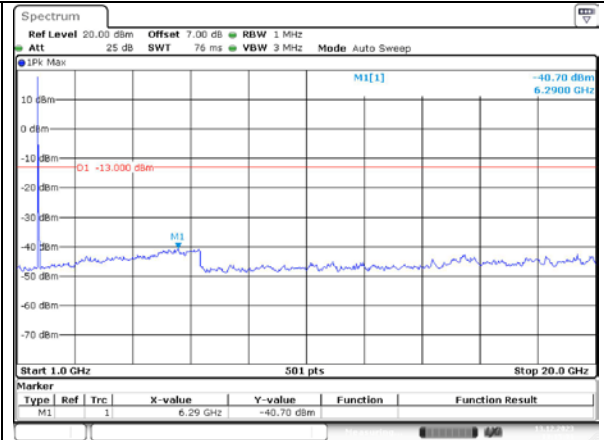
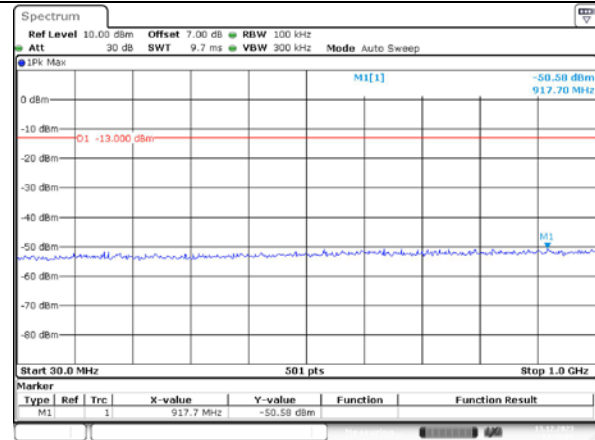
ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:14:07

### Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

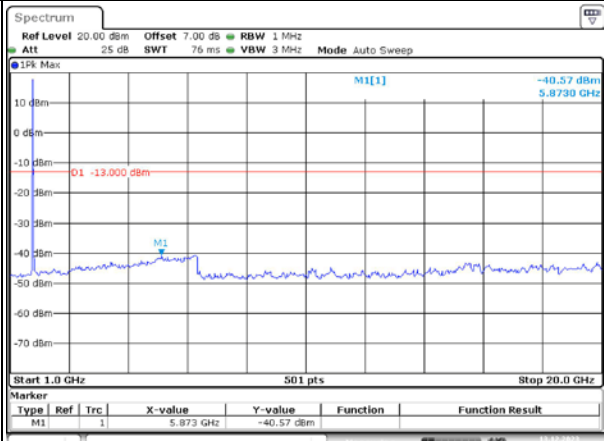
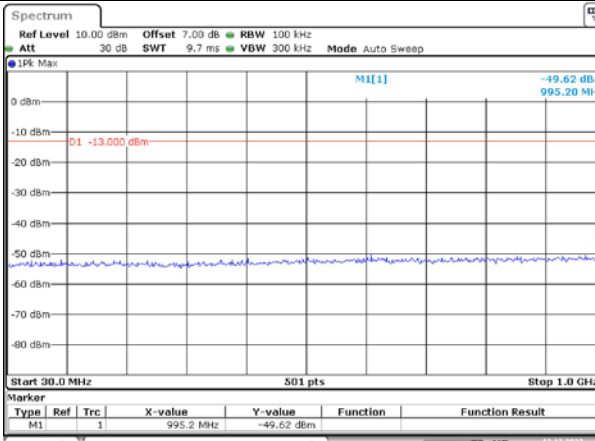
Lowest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:15:05

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:15:33

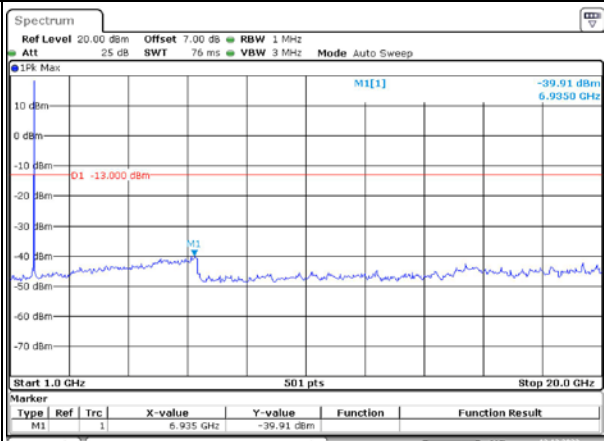
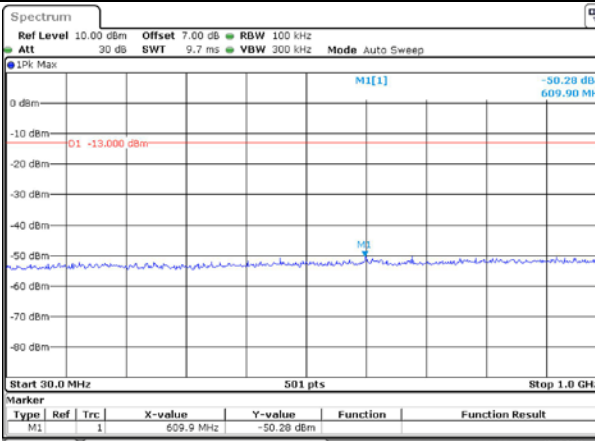
Middle



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:16:06

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:16:28

Highest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:17:01

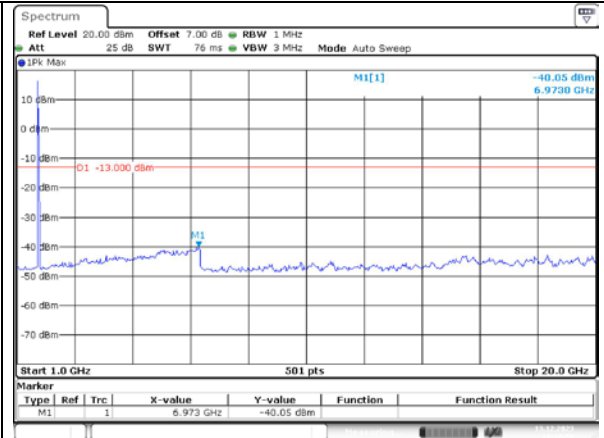
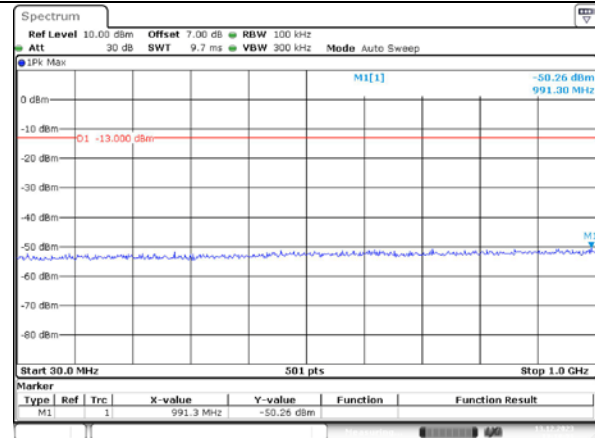
ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:17:29

### Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

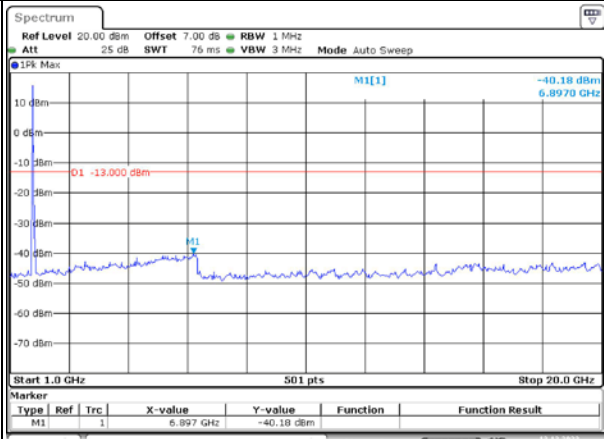
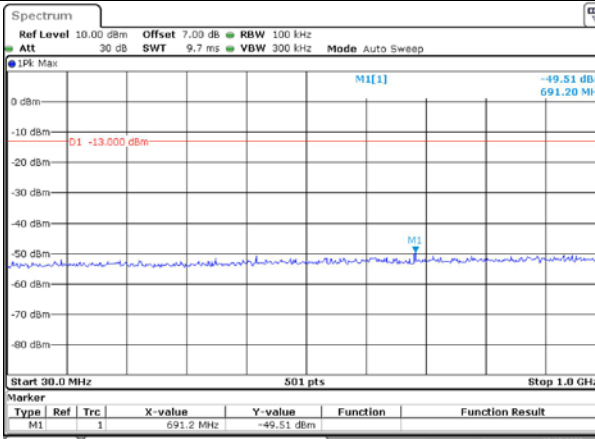
Lowest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:18:14

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:18:59

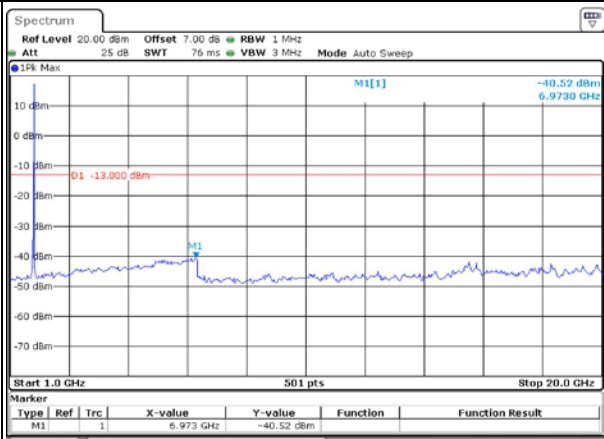
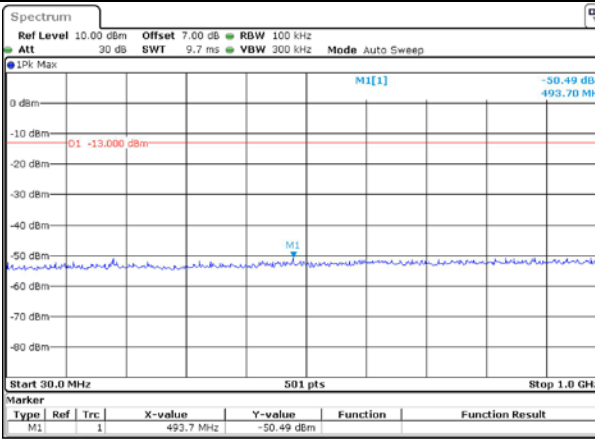
Middle



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:19:29

ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:19:54

Highest



ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:20:21

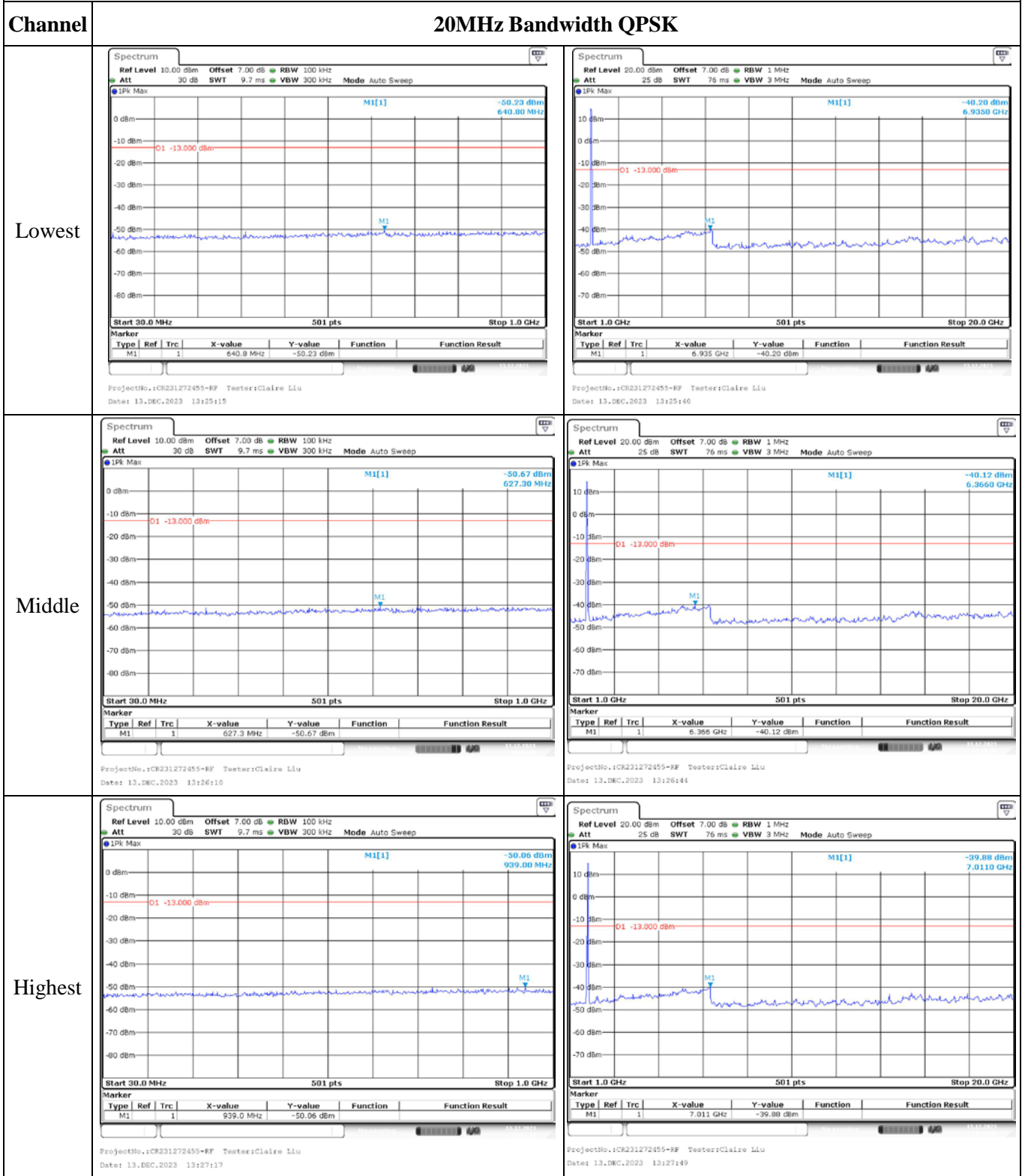
ProjectNo.:CR231272455-RF Tester: Claire Liu  
Date: 13. DEC. 2023 13:20:44

### Spurious Emissions at Antenna Terminal

Channel	15MHz Bandwidth QPSK																													
Lowest	<p>Ref Level 10.00 dBm Offset 7.00 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</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>688.7 MHz</td> <td>-50.44 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13. DEC. 2023 13:21:50</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	688.7 MHz	-50.44 dBm			<p>Ref Level 20.00 dBm Offset 7.00 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</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>7.911 GHz</td> <td>-39.68 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13. DEC. 2023 13:22:06</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	7.911 GHz	-39.68 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	688.7 MHz	-50.44 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	7.911 GHz	-39.68 dBm																										
Middle	<p>Ref Level 10.00 dBm Offset 7.00 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</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>640.8 MHz</td> <td>-50.62 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13. DEC. 2023 13:22:41</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	640.8 MHz	-50.62 dBm			<p>Ref Level 20.00 dBm Offset 7.00 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</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>6.973 GHz</td> <td>-40.22 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13. DEC. 2023 13:23:07</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.973 GHz	-40.22 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	640.8 MHz	-50.62 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.973 GHz	-40.22 dBm																										
Highest	<p>Ref Level 10.00 dBm Offset 7.00 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</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>606.0 MHz</td> <td>-50.19 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13. DEC. 2023 13:23:42</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	606.0 MHz	-50.19 dBm			<p>Ref Level 20.00 dBm Offset 7.00 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</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>6.973 GHz</td> <td>-39.86 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13. DEC. 2023 13:24:01</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	6.973 GHz	-39.86 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	606.0 MHz	-50.19 dBm																										
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	6.973 GHz	-39.86 dBm																										



### Spurious Emissions at Antenna Terminal





Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:40:14</p>	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:41:11</p>
QPSK 15MHz	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:42:05</p>	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:42:25</p>
QPSK 20MHz	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:43:23</p>	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:43:43</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:37:46</p>	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:37:59</p>
16QAM 3MHz	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:38:40</p>	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:38:54</p>
16QAM 5MHz	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:39:51</p>	<p>ProjectNo.:CR231272455-RF Tester: Claire Liu Date: 13.DEC.2023 11:40:06</p>

Out of band emission, Band Edge

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

**4.10 Radiated Spurious Emissions**

Serial Number:	2EOC-3	Test Date:	2023/12/16~2023/12/30
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Tao Zhu	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	24.6~25.5	Relative Humidity: (%)	42~58	ATM Pressure: (kPa)	101~101.4
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362- 300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2023/7/16	2024/7/15
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2023/8/6	2024/8/5

\* **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 Data:**

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**Cellular Band (PART 22H)****GSM850(Test frequency range:30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			824.2	MHz				
721.90	H	20.83	-52.05	0.00	0.50	-52.55	-13.00	39.55
625.07	V	20.92	-50.36	0.00	0.48	-50.84	-13.00	37.84
1648.400	H	48.16	-56.17	8.68	0.80	-48.29	-13.00	35.29
1648.400	V	36.73	-67.68	8.68	0.80	-59.80	-13.00	46.80
2472.600	H	51.03	-49.75	9.38	1.00	-41.37	-13.00	28.37
2472.600	V	42.30	-58.43	9.38	1.00	-50.05	-13.00	37.05
3296.800	H	35.33	-61.35	10.32	1.15	-52.18	-13.00	39.18
3296.800	V	34.27	-62.17	10.32	1.15	-53.00	-13.00	40.00
Frequency:			836.6	MHz				
704.43	H	20.91	-52.32	0.00	0.55	-52.87	-13.00	39.87
694.34	V	20.84	-49.18	0.00	0.55	-49.73	-13.00	36.73
1673.200	H	46.50	-57.81	8.71	0.85	-49.95	-13.00	36.95
1673.200	V	37.83	-66.58	8.71	0.85	-58.72	-13.00	45.72
2509.800	H	46.23	-54.38	9.42	1.01	-45.97	-13.00	32.97
2509.800	V	42.33	-58.29	9.42	1.01	-49.88	-13.00	36.88
3346.400	H	35.17	-62.00	10.34	1.16	-52.82	-13.00	39.82
3346.400	V	34.55	-62.48	10.34	1.16	-53.30	-13.00	40.30
Frequency:			848.8	MHz				
618.79	H	20.97	-52.79	0.00	0.49	-53.28	-13.00	40.28
706.61	V	20.81	-48.97	0.00	0.54	-49.51	-13.00	36.51
1697.600	H	45.90	-58.39	8.74	0.90	-50.55	-13.00	37.55
1697.600	V	38.23	-66.19	8.74	0.90	-58.35	-13.00	45.35
2546.400	H	45.53	-54.80	9.47	1.01	-46.34	-13.00	33.34
2546.400	V	39.45	-60.83	9.47	1.01	-52.37	-13.00	39.37
3395.200	H	37.12	-60.57	10.36	1.19	-51.40	-13.00	38.40
3395.200	V	35.80	-61.86	10.36	1.19	-52.69	-13.00	39.69

**WCDMA Band 5(Test frequency range:30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			826.4	MHz				
668.14	H	21.03	-52.46	0.00	0.50	-52.96	-13.00	39.96
574.67	V	20.87	-50.82	0.00	0.46	-51.28	-13.00	38.28
1652.800	H	36.52	-67.81	8.68	0.81	-59.94	-13.00	46.94
1652.800	V	35.42	-68.99	8.68	0.81	-61.12	-13.00	48.12
2479.200	H	37.43	-63.33	9.39	1.01	-54.95	-13.00	41.95
2479.200	V	35.78	-64.95	9.39	1.01	-56.57	-13.00	43.57
3305.600	H	39.70	-57.03	10.32	1.15	-47.86	-13.00	34.86
3305.600	V	36.12	-60.38	10.32	1.15	-51.21	-13.00	38.21
Frequency:			836.4	MHz				
714.12	H	20.75	-52.28	0.00	0.50	-52.78	-13.00	39.78
656.49	V	20.72	-49.99	0.00	0.52	-50.51	-13.00	37.51
1672.800	H	37.52	-66.79	8.71	0.85	-58.93	-13.00	45.93
1672.800	V	36.71	-67.70	8.71	0.85	-59.84	-13.00	46.84
2509.200	H	37.33	-63.28	9.42	1.01	-54.87	-13.00	41.87
2509.200	V	36.59	-64.03	9.42	1.01	-55.62	-13.00	42.62
3345.600	H	44.56	-52.61	10.34	1.16	-43.43	-13.00	30.43
3345.600	V	43.62	-53.41	10.34	1.16	-44.23	-13.00	31.23
Frequency:			846.6	MHz				
537.70	H	20.82	-54.27	0.00	0.46	-54.73	-13.00	41.73
687.08	V	20.93	-49.22	0.00	0.53	-49.75	-13.00	36.75
1693.200	H	35.72	-68.58	8.73	0.89	-60.74	-13.00	47.74
1693.200	V	36.32	-68.10	8.73	0.89	-60.26	-13.00	47.26
2539.800	H	34.54	-65.84	9.46	1.01	-57.39	-13.00	44.39
2539.800	V	37.41	-62.93	9.46	1.01	-54.48	-13.00	41.48
3386.400	H	34.01	-63.58	10.35	1.18	-54.41	-13.00	41.41
3386.400	V	46.32	-51.22	10.35	1.18	-42.05	-13.00	29.05



**PCS Band (PART 24E)****GSM1900(Test frequency range:30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1850.2	MHz				
235.81	H	54.07	-58.11	0.00	0.29	-58.40	-13.00	45.40
234.16	V	46.17	-64.27	0.00	0.29	-64.56	-13.00	51.56
3700.400	H	37.02	-60.30	10.60	1.25	-50.95	-13.00	37.95
3700.400	V	35.61	-61.69	10.60	1.25	-52.34	-13.00	39.34
5550.600	H	35.02	-58.24	11.44	1.49	-48.29	-13.00	35.29
5550.600	V	34.08	-59.02	11.44	1.49	-49.07	-13.00	36.07
Frequency:			1880	MHz				
232.53	H	53.99	-58.26	0.00	0.29	-58.55	-13.00	45.55
234.16	V	46.07	-64.37	0.00	0.29	-64.66	-13.00	51.66
3760.000	H	37.30	-59.11	10.66	1.24	-49.69	-13.00	36.69
3760.000	V	35.21	-61.08	10.66	1.24	-51.66	-13.00	38.66
5640.000	H	35.53	-57.92	11.33	1.54	-48.13	-13.00	35.13
5640.000	V	34.98	-58.35	11.33	1.54	-48.56	-13.00	35.56
Frequency:			1909.8	MHz				
237.47	H	53.79	-58.36	0.00	0.29	-58.65	-13.00	45.65
235.81	V	45.94	-64.56	0.00	0.29	-64.85	-13.00	51.85
3819.600	H	35.62	-60.24	10.72	1.29	-50.81	-13.00	37.81
3819.600	V	34.13	-61.59	10.72	1.29	-52.16	-13.00	39.16
5729.400	H	35.63	-57.85	11.22	1.59	-48.22	-13.00	35.22
5729.400	V	34.63	-58.73	11.22	1.59	-49.10	-13.00	36.10

**WCDMA Band 2(Test frequency range:30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:			1852.4	MHz				
234.16	H	53.91	-58.30	0.00	0.29	-58.59	-13.00	45.59
234.16	V	46.26	-64.18	0.00	0.29	-64.47	-13.00	51.47
3704.800	H	35.72	-61.54	10.60	1.25	-52.19	-13.00	39.19
3704.800	V	36.12	-61.11	10.60	1.25	-51.76	-13.00	38.76
5557.200	H	34.08	-59.20	11.43	1.49	-49.26	-13.00	36.26
5557.200	V	35.15	-57.98	11.43	1.49	-48.04	-13.00	35.04
Frequency:			1880	MHz				
235.81	H	54.05	-58.13	0.00	0.29	-58.42	-13.00	45.42
235.81	V	46.20	-64.30	0.00	0.29	-64.59	-13.00	51.59
3760.000	H	35.17	-61.24	10.66	1.24	-51.82	-13.00	38.82
3760.000	V	36.43	-59.86	10.66	1.24	-50.44	-13.00	37.44
5640.000	H	35.60	-57.85	11.33	1.54	-48.06	-13.00	35.06
5640.000	V	35.41	-57.92	11.33	1.54	-48.13	-13.00	35.13
Frequency:			1907.6	MHz				
236.64	H	53.72	-58.44	0.00	0.29	-58.73	-13.00	45.73
235.81	V	46.19	-64.31	0.00	0.29	-64.60	-13.00	51.60
3815.200	H	36.66	-59.19	10.72	1.29	-49.76	-13.00	36.76
3815.200	V	34.05	-61.64	10.72	1.29	-52.21	-13.00	39.21
5722.800	H	35.46	-58.03	11.23	1.58	-48.38	-13.00	35.38
5722.800	V	34.09	-59.26	11.23	1.58	-49.61	-13.00	36.61

**1710-1780 MHz Band (PART 27)****WCDMA Band 4 (Test frequency range:30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
			Frequency: 1712.4 MHz					
237.47	H	54.15	-58.00	0.00	0.29	-58.29	-13.00	45.29
234.16	V	46.18	-64.26	0.00	0.29	-64.55	-13.00	51.55
3424.800	H	34.10	-63.67	10.37	1.17	-54.47	-13.00	41.47
3424.800	V	35.19	-62.55	10.37	1.17	-53.35	-13.00	40.35
5137.200	H	34.71	-58.91	11.28	1.46	-49.09	-13.00	36.09
5137.200	V	35.20	-58.30	11.28	1.46	-48.48	-13.00	35.48
			Frequency: 1732.6 MHz					
234.16	H	53.83	-58.38	0.00	0.29	-58.67	-13.00	45.67
234.16	V	46.46	-63.98	0.00	0.29	-64.27	-13.00	51.27
3465.200	H	35.07	-62.74	10.39	1.15	-53.50	-13.00	40.50
3465.200	V	34.23	-63.54	10.39	1.15	-54.30	-13.00	41.30
5197.800	H	34.07	-60.06	11.32	1.44	-50.18	-13.00	37.18
5197.800	V	35.03	-58.95	11.32	1.44	-49.07	-13.00	36.07
			Frequency: 1752.6 MHz					
235.81	H	54.02	-58.16	0.00	0.29	-58.45	-13.00	45.45
229.29	V	46.05	-64.23	0.00	0.29	-64.52	-13.00	51.52
3505.200	H	34.80	-63.03	10.41	1.18	-53.80	-13.00	40.80
3505.200	V	35.48	-62.29	10.41	1.18	-53.06	-13.00	40.06
5257.800	H	35.18	-58.55	11.35	1.47	-48.67	-13.00	35.67
5257.800	V	34.62	-58.89	11.35	1.47	-49.01	-13.00	36.01

**LTE Bands:**

(The Worst modulation and bandwidth was below)

**LTE Band 2(Test frequency range:30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			1850.7	MHz				
234.17	H	54.39	-57.82	0.00	0.29	-58.11	-13.00	45.11
235.81	V	46.10	-64.40	0.00	0.29	-64.69	-13.00	51.69
3701.400	H	34.72	-62.59	10.60	1.25	-53.24	-13.00	40.24
3701.400	V	34.90	-62.39	10.60	1.25	-53.04	-13.00	40.04
5552.100	H	34.52	-58.75	11.44	1.49	-48.80	-13.00	35.80
5552.100	V	35.98	-57.12	11.44	1.49	-47.17	-13.00	34.17
1.4MHz QPSK, Frequency:			1880	MHz				
230.91	H	53.98	-58.30	0.00	0.29	-58.59	-13.00	45.59
235.81	V	46.21	-64.29	0.00	0.29	-64.58	-13.00	51.58
3760.000	H	35.64	-60.77	10.66	1.24	-51.35	-13.00	38.35
3760.000	V	34.53	-61.76	10.66	1.24	-52.34	-13.00	39.34
5640.000	H	34.93	-58.52	11.33	1.54	-48.73	-13.00	35.73
5640.000	V	35.30	-58.03	11.33	1.54	-48.24	-13.00	35.24
1.4MHz QPSK, Frequency:			1909.3	MHz				
232.53	H	54.23	-58.02	0.00	0.29	-58.31	-13.00	45.31
232.53	V	45.89	-64.50	0.00	0.29	-64.79	-13.00	51.79
3818.600	H	35.60	-60.26	10.72	1.29	-50.83	-13.00	37.83
3818.600	V	34.75	-60.96	10.72	1.29	-51.53	-13.00	38.53
5727.900	H	34.93	-58.55	11.23	1.59	-48.91	-13.00	35.91
5727.900	V	35.93	-57.43	11.23	1.59	-47.79	-13.00	34.79

**LTE Band 4(Test frequency range:30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency:			1710.7	MHz				
234.60	H	53.83	-58.37	0.00	0.29	-58.66	-13.00	45.66
235.81	V	45.80	-64.70	0.00	0.29	-64.99	-13.00	51.99
3421.400	H	34.94	-62.82	10.37	1.17	-53.62	-13.00	40.62
3421.400	V	35.27	-62.46	10.37	1.17	-53.26	-13.00	40.26
5132.100	H	34.32	-59.25	11.28	1.47	-49.44	-13.00	36.44
5132.100	V	34.83	-58.63	11.28	1.47	-48.82	-13.00	35.82
1.4MHz QPSK, Frequency:			1732.5	MHz				
235.81	H	54.16	-58.02	0.00	0.29	-58.31	-13.00	45.31
234.16	V	46.17	-64.27	0.00	0.29	-64.56	-13.00	51.56
3465.000	H	40.76	-57.05	10.39	1.15	-47.81	-13.00	34.81
3465.000	V	36.29	-61.48	10.39	1.15	-52.24	-13.00	39.24
5197.500	H	35.83	-58.30	11.32	1.44	-48.42	-13.00	35.42
5197.500	V	35.80	-58.18	11.32	1.44	-48.30	-13.00	35.30
1.4MHz QPSK, Frequency:			1754.3	MHz				
234.17	H	54.02	-58.19	0.00	0.29	-58.48	-13.00	45.48
234.16	V	45.98	-64.46	0.00	0.29	-64.75	-13.00	51.75
3508.600	H	35.28	-62.54	10.41	1.19	-53.32	-13.00	40.32
3508.600	V	35.28	-62.48	10.41	1.19	-53.26	-13.00	40.26
5262.900	H	34.30	-59.40	11.36	1.47	-49.51	-13.00	36.51
5262.900	V	36.05	-57.42	11.36	1.47	-47.53	-13.00	34.53

**LTE Band 7(Test frequency range:30MHz-30GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency:			2502.5	MHz				
230.91	H	53.90	-58.38	0.00	0.29	-58.67	-25.00	33.67
235.81	V	46.35	-64.15	0.00	0.29	-64.44	-25.00	39.44
5005.000	H	34.39	-58.57	11.20	1.47	-48.84	-25.00	23.84
5005.000	V	35.85	-56.97	11.20	1.47	-47.24	-25.00	22.24
7507.500	H	43.42	-46.37	10.90	1.95	-37.42	-25.00	12.42
7507.500	V	42.74	-47.55	10.90	1.95	-38.60	-25.00	13.60
5MHz QPSK, Frequency:			2535	MHz				
232.53	H	53.86	-58.39	0.00	0.29	-58.68	-25.00	33.68
235.81	V	46.48	-64.02	0.00	0.29	-64.31	-25.00	39.31
5070.000	H	36.80	-56.39	11.24	1.47	-46.62	-25.00	21.62
5070.000	V	36.69	-56.40	11.24	1.47	-46.63	-25.00	21.63
7605.000	H	37.24	-52.23	10.88	2.01	-43.36	-25.00	18.36
7605.000	V	39.03	-51.16	10.88	2.01	-42.29	-25.00	17.29
5MHz QPSK, Frequency:			2567.5	MHz				
234.16	H	54.23	-57.98	0.00	0.29	-58.27	-25.00	33.27
234.16	V	45.94	-64.50	0.00	0.29	-64.79	-25.00	39.79
5135.000	H	39.49	-54.11	11.28	1.47	-44.30	-25.00	19.30
5135.000	V	36.22	-57.27	11.28	1.47	-47.46	-25.00	22.46
7702.500	H	40.51	-49.01	10.86	1.97	-40.12	-25.00	15.12
7702.500	V	40.85	-49.33	10.86	1.97	-40.44	-25.00	15.44

**LTE Band 66(Test frequency range:30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency:			1710.7	MHz				
230.91	H	54.15	-58.13	0.00	0.29	-58.42	-13.00	45.42
232.53	V	46.68	-63.71	0.00	0.29	-64.00	-13.00	51.00
3421.400	H	37.26	-60.50	10.37	1.17	-51.30	-13.00	38.30
3421.400	V	37.49	-60.24	10.37	1.17	-51.04	-13.00	38.04
5132.100	H	40.39	-53.18	11.28	1.47	-43.37	-13.00	30.37
5132.100	V	39.29	-54.17	11.28	1.47	-44.36	-13.00	31.36
5MHz QPSK, Frequency:			1745	MHz				
229.29	H	54.06	-58.25	0.00	0.29	-58.54	-13.00	45.54
235.81	V	46.17	-64.33	0.00	0.29	-64.62	-13.00	51.62
3490.000	H	41.22	-56.62	10.40	1.17	-47.39	-13.00	34.39
3490.000	V	36.45	-61.33	10.40	1.17	-52.10	-13.00	39.10
5235.000	H	44.95	-48.95	11.34	1.46	-39.07	-13.00	26.07
5235.000	V	42.66	-51.05	11.34	1.46	-41.17	-13.00	28.17
5MHz QPSK, Frequency:			1779.3	MHz				
234.16	H	53.85	-58.36	0.00	0.29	-58.65	-13.00	45.65
237.47	V	45.86	-64.69	0.00	0.29	-64.98	-13.00	51.98
3558.600	H	47.40	-50.27	10.46	1.22	-41.03	-13.00	28.03
3558.600	V	38.97	-58.60	10.46	1.22	-49.36	-13.00	36.36
5337.900	H	48.05	-45.42	11.40	1.47	-35.49	-13.00	22.49
5337.900	V	43.86	-49.47	11.40	1.47	-39.54	-13.00	26.54

**Note:**

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level



## **5. EUT PHOTOGRAPHS**

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Please refer to the attachment CR231272455-EXP EUT EXTERNAL PHOTOGRAPHS and  
CR231272455-INP EUT INTERNAL PHOTOGRAPHS

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## **6. TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment CR231272455-00E-TSP TEST SETUP PHOTOGRAPHS.

**==== END OF REPORT =====**