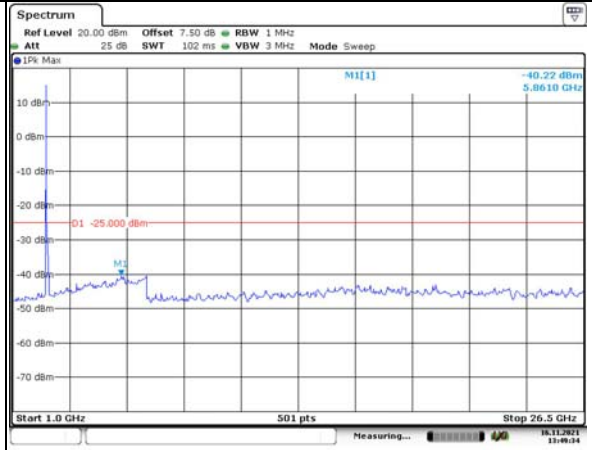
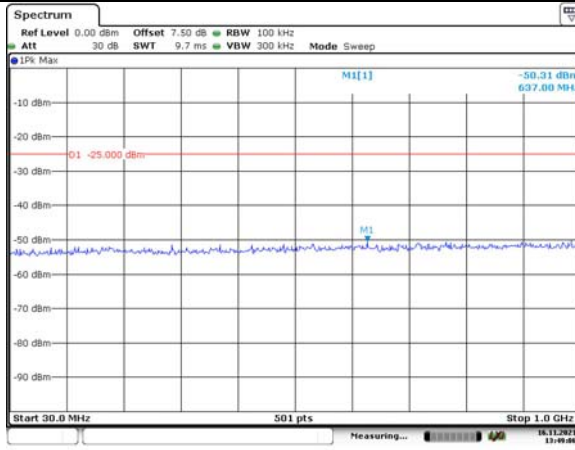


Spurious Emissions at Antenna Terminal

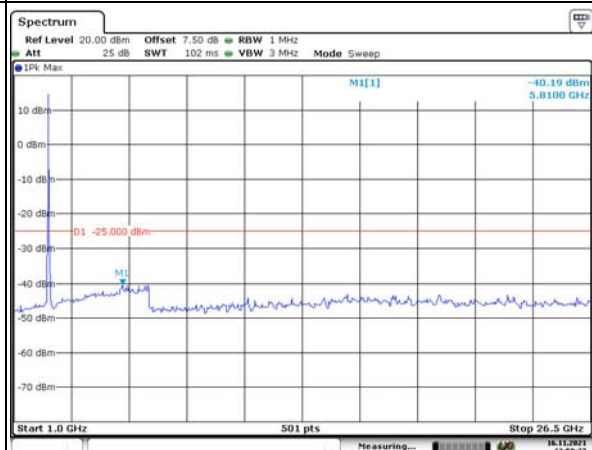
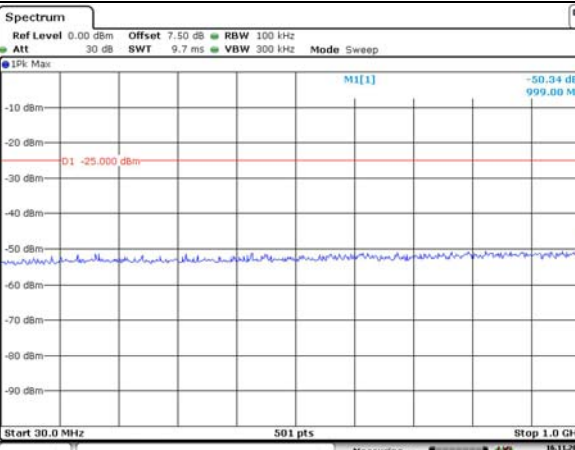
Channel

10MHz Bandwidth QPSK

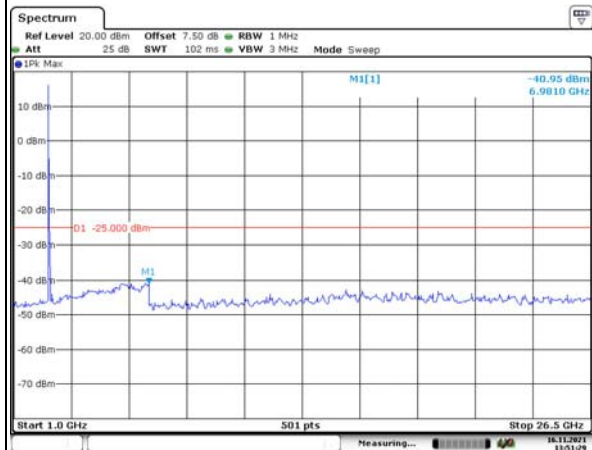
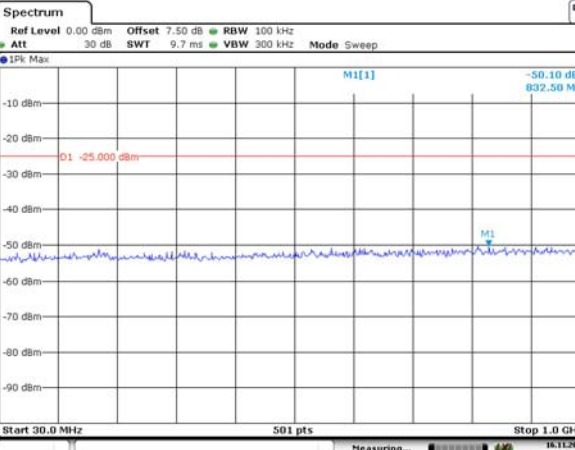
Lowest



Middle



Highest

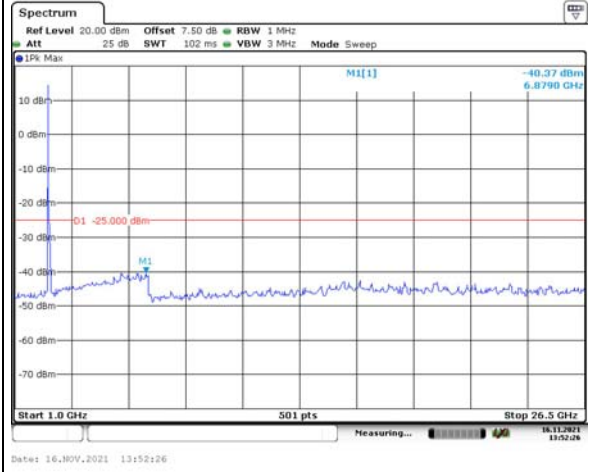
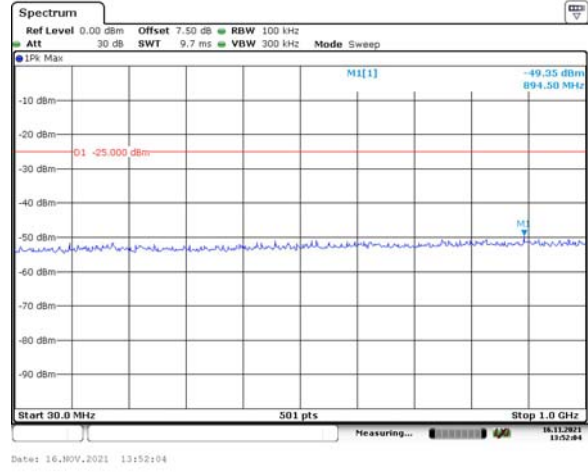


Spurious Emissions at Antenna Terminal

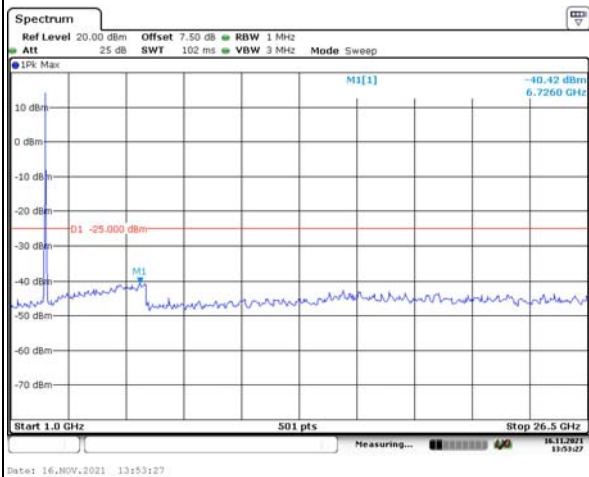
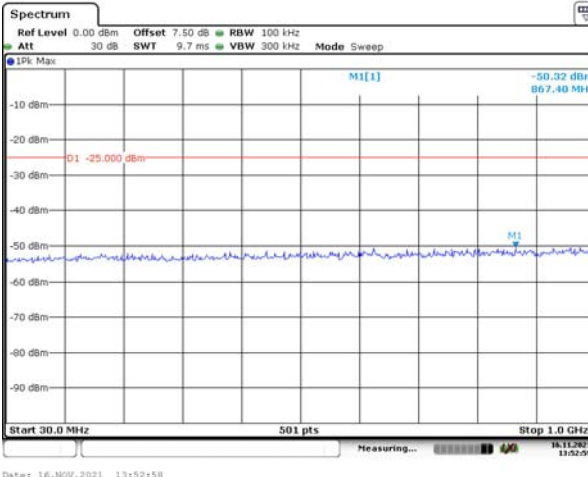
Channel

15MHz Bandwidth QPSK

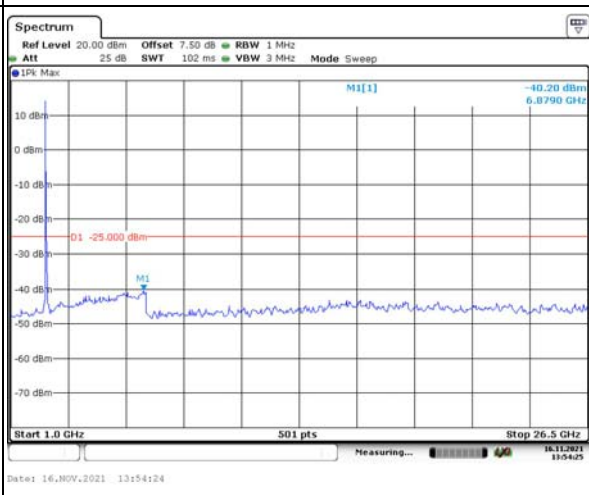
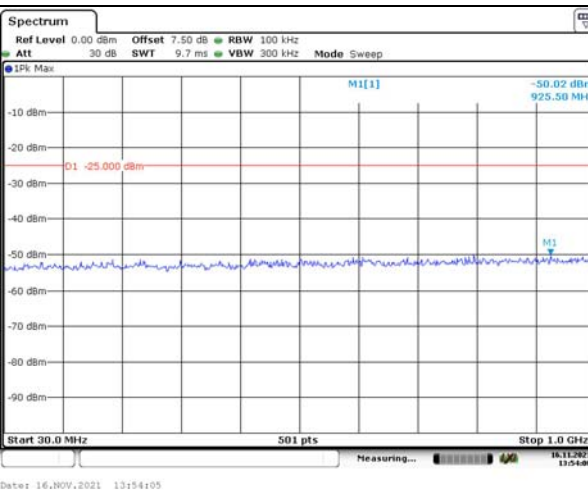
Lowest



Middle



Highest

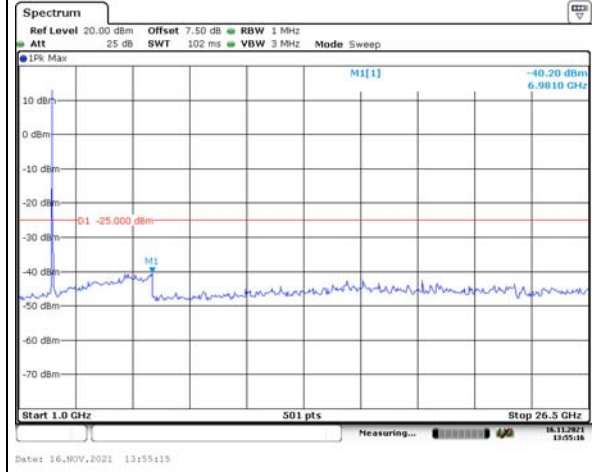
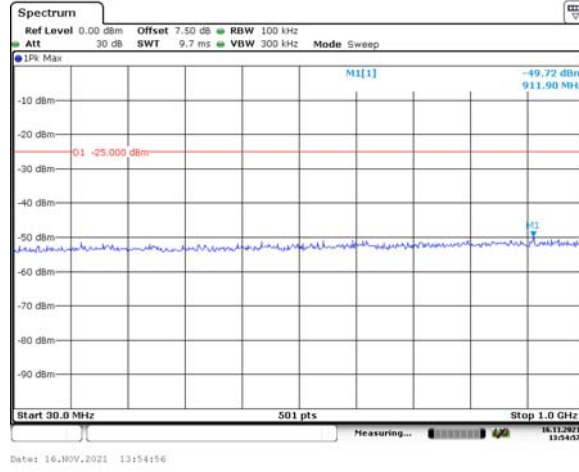


Spurious Emissions at Antenna Terminal

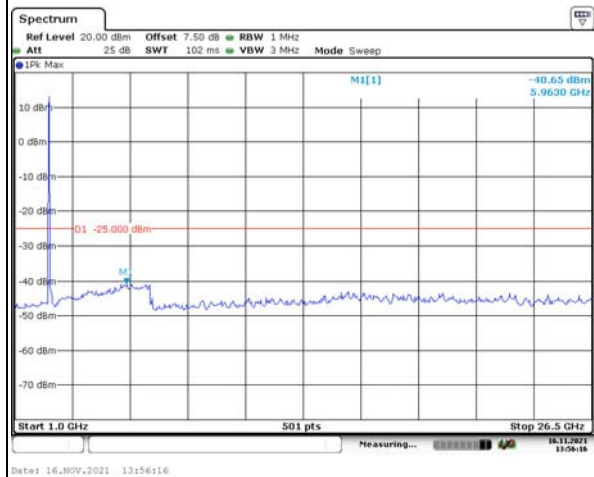
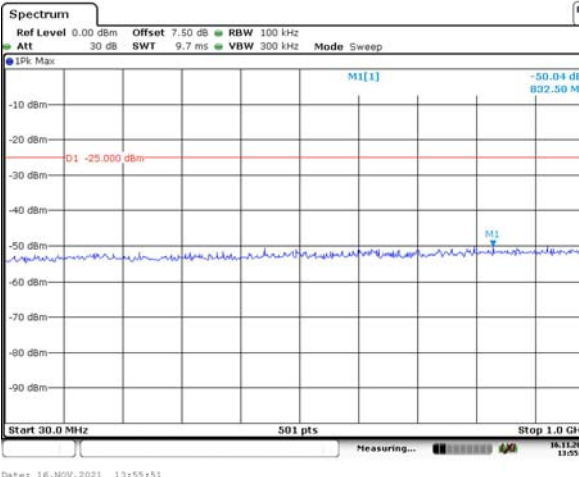
Channel

20MHz Bandwidth QPSK

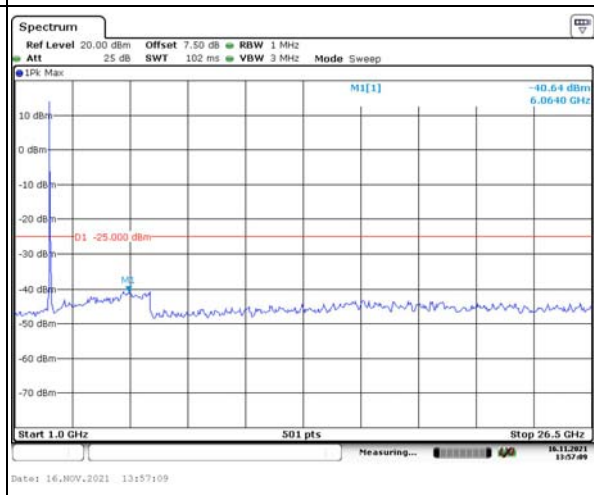
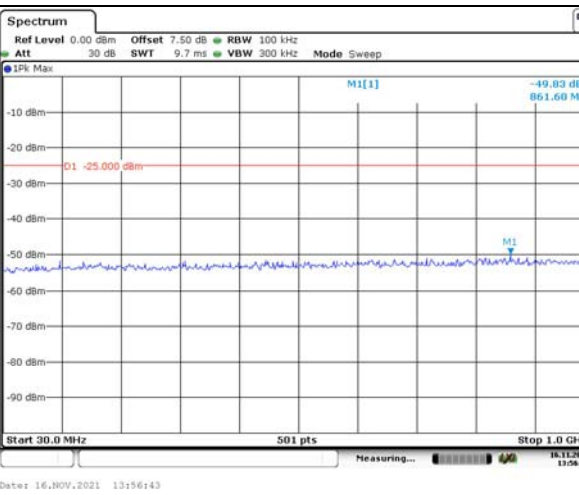
Lowest



Middle



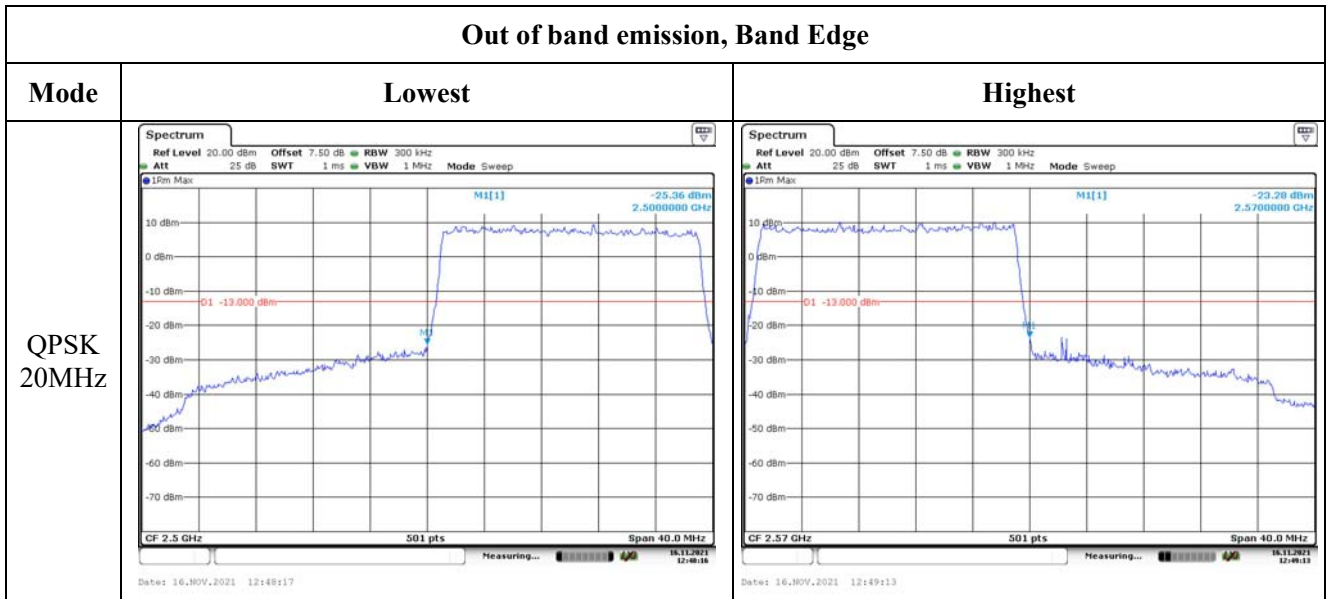
Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

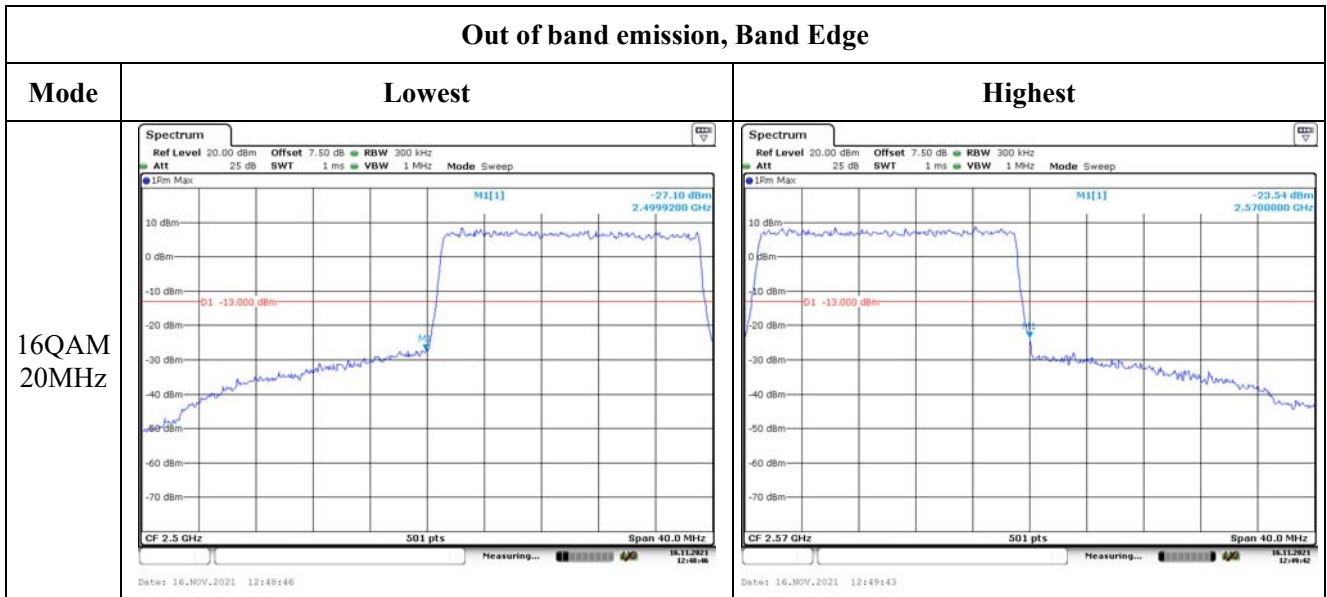
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -19.92 dBm 2.500000 GHz -13.000 dBm CF 2.5 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:42:52</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -17.47 dBm 2.570000 GHz -13.000 dBm CF 2.57 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:43:49</p>
16QAM 10MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -28.03 dBm 2.500000 GHz -13.000 dBm CF 2.5 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:44:52</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -25.13 dBm 2.570000 GHz -13.000 dBm CF 2.57 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:45:51</p>
16QAM 15MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep MI[1] -15.38 dBm 2.4999400 GHz -13.000 dBm CF 2.5 GHz 501 pts Span 30.0 MHz Date: 16.NOV.2021 12:46:47</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep MI[1] -18.45 dBm 2.5700600 GHz -13.000 dBm CF 2.57 GHz 501 pts Span 30.0 MHz Date: 16.NOV.2021 12:47:44</p>

Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 38:

Serial Number:	CR21100112-RF-S1	Test Date:	2021/11/11~2021/11/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Thor Lei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.8~27.7	Relative Humidity: (%)	48~53	ATM Pressure: (kPa)	101.4~101.5
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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	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
44834	Two-way Splitter	ODP-1-6	OE0120176	Each Time	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).

EUT Information@LTE Band 38▲:

Antenna Gain (dBi):	1	Cable Loss (dB):	0.5
Operation Voltage(V _{DC}):			
Lowest:	3.5	Normal:	3.85
		Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2572.5	2595	2617.5
10MHz	2575	2595	2615
15MHz	2577.5	2595	2612.5
20MHz	2580	2595	2610

Test Data:

FCC§2.1046;§ 27.50(h)(2)						
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		
5MHz QPSK	RB1#0	22.36	22.38	22.37	23.02	33
	RB1#13	22.45	22.51	22.52		
	RB1#24	22.18	22.4	22.33		
	RB15#0	21.51	21.5	21.39		
	RB15#10	21.46	21.52	21.41		
	RB25#0	21.53	21.51	21.44		
5MHz 16QAM	RB1#0	21.43	21.69	21.38	22.28	33
	RB1#13	21.56	21.78	21.51		
	RB1#24	21.38	21.71	21.33		
	RB15#0	20.5	20.54	20.34		
	RB15#10	20.48	20.61	20.34		
10MHz QPSK	RB1#0	22.39	22.51	22.47	23.3	33
	RB1#25	22.66	22.8	22.74		
	RB1#49	22.33	22.51	22.45		
	RB25#0	21.5	21.53	21.46		
	RB25#25	21.54	21.6	21.51		
	RB50#0	21.49	21.58	21.51		
10MHz 16QAM	RB1#0	21.56	21.41	21.62	22.36	33
	RB1#25	21.85	21.71	21.86		
	RB1#49	21.6	21.45	21.54		
	RB25#0	20.49	20.58	20.48		
	RB25#25	20.52	20.61	20.53		
	RB50#0	20.47	20.63	20.48		
15MHz QPSK	RB1#0	22.29	22.38	22.39	23.01	33
	RB1#38	22.33	22.51	22.49		
	RB1#74	22.28	22.45	22.29		
	RB36#0	21.44	21.36	21.46		
	RB36#39	21.51	21.57	21.47		
	RB75#0	21.49	21.55	21.42		
15MHz 16QAM	RB1#0	21.5	21.35	21.66	22.24	33
	RB1#38	21.56	21.48	21.74		
	RB1#74	21.51	21.43	21.58		
	RB36#0	20.37	20.47	20.45		
	RB36#39	20.46	20.5	20.49		
	RB75#0	20.43	20.49	20.41		
20MHz QPSK	RB1#0	22.18	22.19	22.33	23.23	33
	RB1#50	22.69	22.67	22.73		
	RB1#99	22.15	22.19	22.23		

	RB50#0	21.43	21.42	21.42		
	RB50#50	21.49	21.5	21.45		
	RB100#0	21.44	21.52	21.41		
20MHz 16QAM	RB1#0	21.31	21.23	21.58	22.46	33
	RB1#50	21.76	21.68	21.96		
	RB1#99	21.29	21.21	21.5		
	RB50#0	20.46	20.46	20.41		
	RB50#50	20.46	20.55	20.49		
	RB100#0	20.48	20.51	20.43		

Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(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	6.29	6.72	4.93	13
	RB100#0	5.39	6.32	6.87	13
20MHz 16QAM	RB1#0	7.59	6.52	7.65	13
	RB100#0	6.23	7.33	7.42	13
Result:					Pass

FCC §2.1049, §27.53: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
5MHz QPSK	4.491	4.511	4.511	4.960	5.220	5.080
5MHz 16QAM	4.511	4.511	4.511	5.080	5.160	4.980
10MHz QPSK	8.981	8.942	8.942	9.800	9.680	9.600
10MHz 16QAM	8.981	8.942	8.981	9.680	9.560	10.000
15MHz QPSK	13.593	13.473	13.473	15.540	15.300	15.540
15MHz 16QAM	13.593	13.593	13.593	16.380	16.440	16.380
20MHz QPSK	17.964	17.964	17.964	19.680	19.760	19.840
20MHz 16QAM	17.964	17.964	17.964	19.760	21.200	19.360

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

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, § 27.53: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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FCC §2.1055, §27.54: 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	3.85	2570.529	2570.00	2619.472	2620
	-20	3.85	2570.529	2570.00	2619.472	2620
	-10	3.85	2570.529	2570.00	2619.471	2620
	0	3.85	2570.528	2570.00	2619.472	2620
	10	3.85	2570.529	2570.00	2619.472	2620
	20	3.85	2570.529	2570.00	2619.471	2620
	30	3.85	2570.529	2570.00	2619.472	2620
	40	3.85	2570.528	2570.00	2619.472	2620
	50	3.85	2570.528	2570.00	2619.471	2620
Frequency Stability vs. Voltage	20	3.5	2570.528	2570.00	2619.472	2620
	20	4.4	2570.529	2570.00	2619.472	2620
					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	3.85	2570.529	2570.00	2619.471	2620
	-20	3.85	2570.529	2570.00	2619.472	2620
	-10	3.85	2570.528	2570.00	2619.472	2620
	0	3.85	2570.529	2570.00	2619.472	2620
	10	3.85	2570.529	2570.00	2619.472	2620
	20	3.85	2570.529	2570.00	2619.471	2620
	30	3.85	2570.528	2570.00	2619.472	2620
	40	3.85	2570.529	2570.00	2619.472	2620
	50	3.85	2570.528	2570.00	2619.472	2620
Frequency Stability vs. Voltage	20	3.5	2570.529	2570.00	2619.471	2620
	20	4.4	2570.528	2570.00	2619.472	2620
					Result:	Pass

Test Plots:

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -18.02 dBm 2.5702400 GHz Occ Bw 9.982035928 MHz 1.07 dB 9.6800 MHz CF 2.575 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 11:59:34</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -16.20 dBm 2.5702400 GHz Occ Bw 9.982035928 MHz -0.06 dB 9.6800 MHz CF 2.575 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:00:17</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -16.65 dBm 2.5901600 GHz Occ Bw 9.942115768 MHz -0.09 dB 9.6800 MHz CF 2.595 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:01:01</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -17.07 dBm 2.5902400 GHz Occ Bw 9.942115768 MHz -1.15 dB 9.5600 MHz CF 2.595 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:01:45</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -16.81 dBm 2.6102400 GHz Occ Bw 9.942115768 MHz -0.46 dB 9.6800 MHz CF 2.615 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:02:44</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -18.68 dBm 2.6102000 GHz Occ Bw 9.982035928 MHz -0.41 dB 10.0000 MHz CF 2.615 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:03:31</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

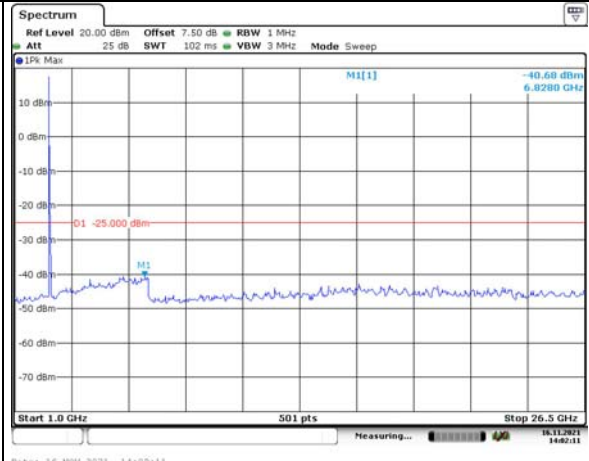
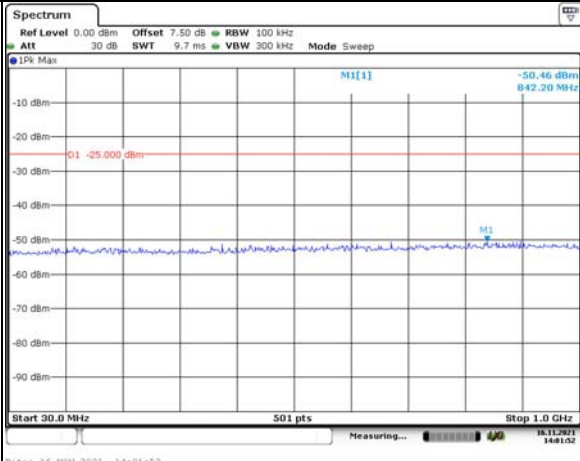
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

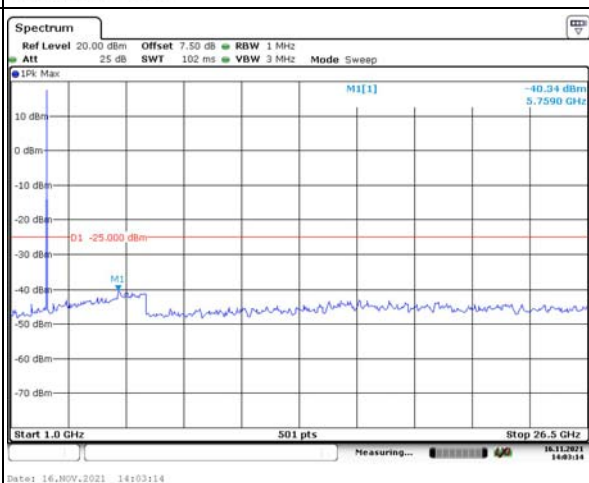
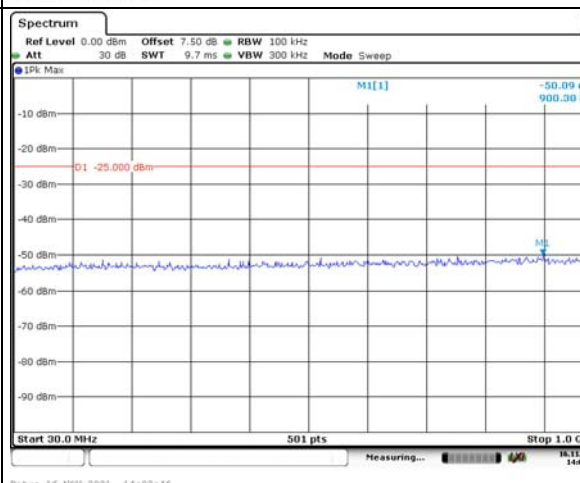
Channel

5MHz Bandwidth QPSK

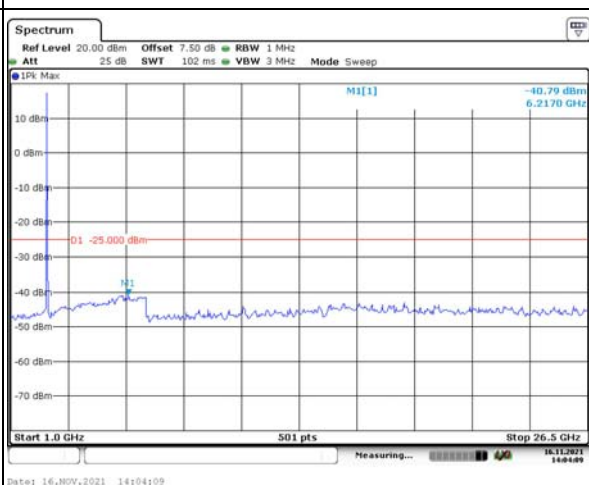
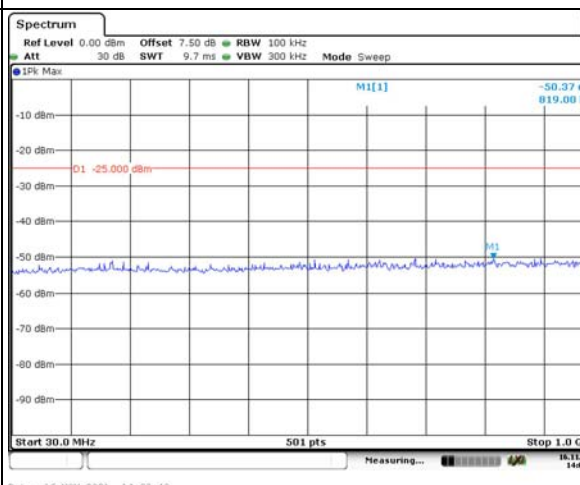
Lowest



Middle



Highest

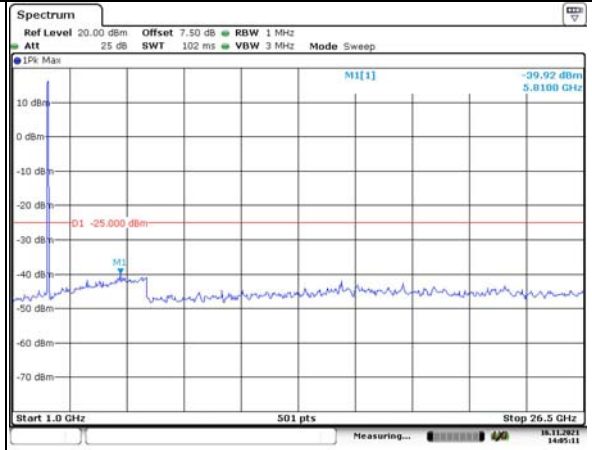
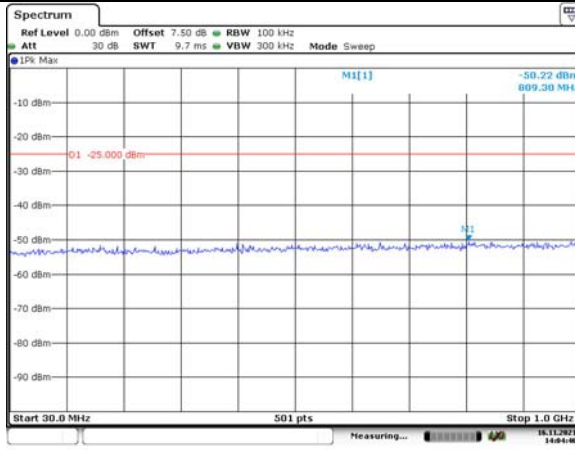


Spurious Emissions at Antenna Terminal

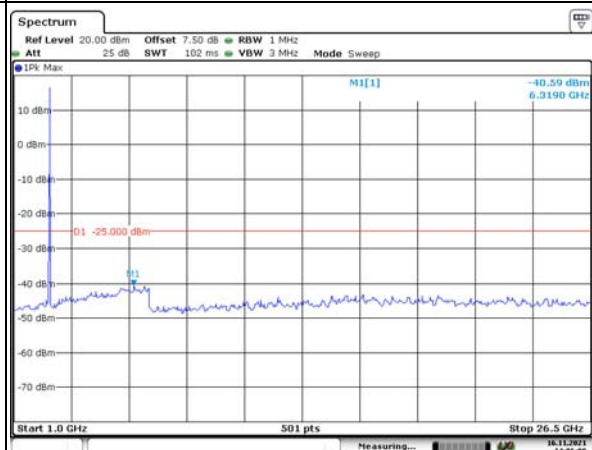
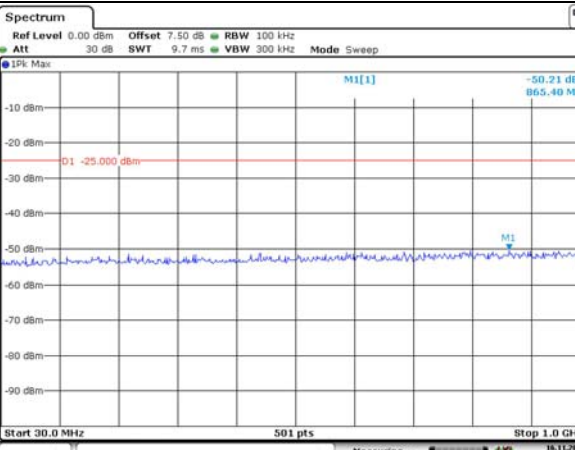
Channel

10MHz Bandwidth QPSK

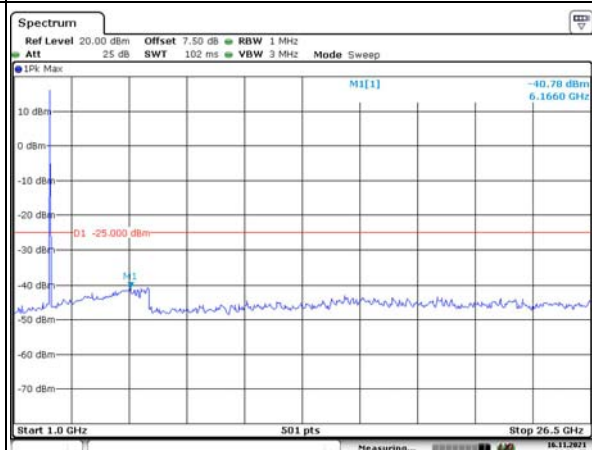
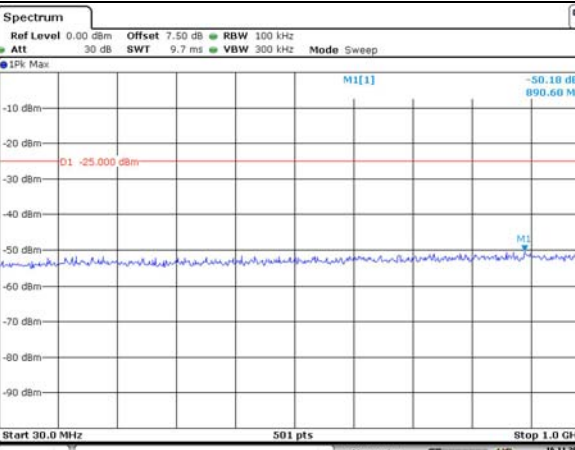
Lowest



Middle



Highest

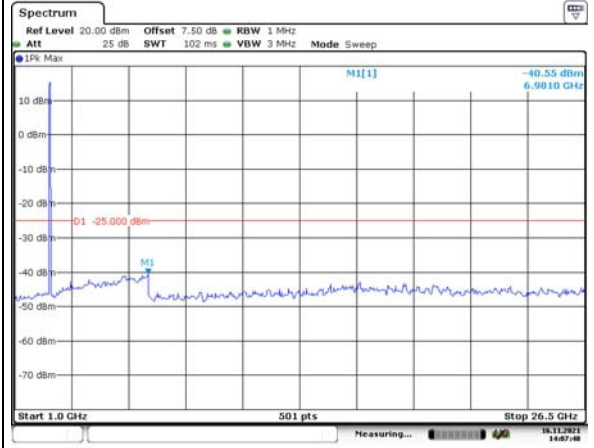
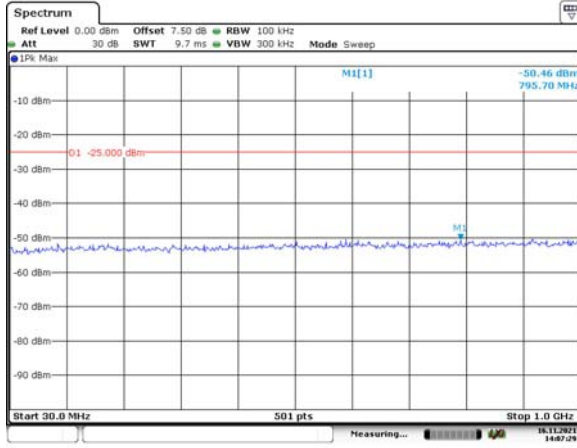


Spurious Emissions at Antenna Terminal

Channel

15MHz Bandwidth QPSK

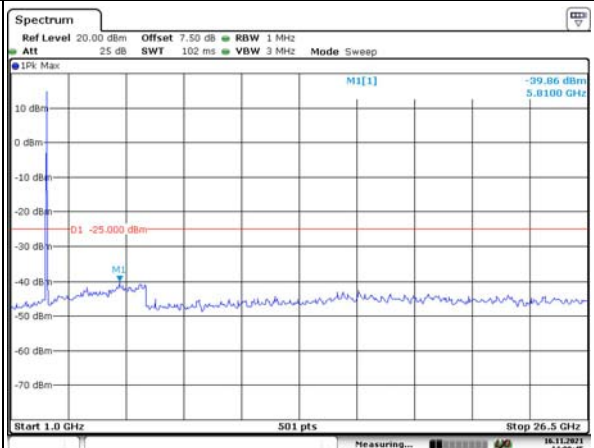
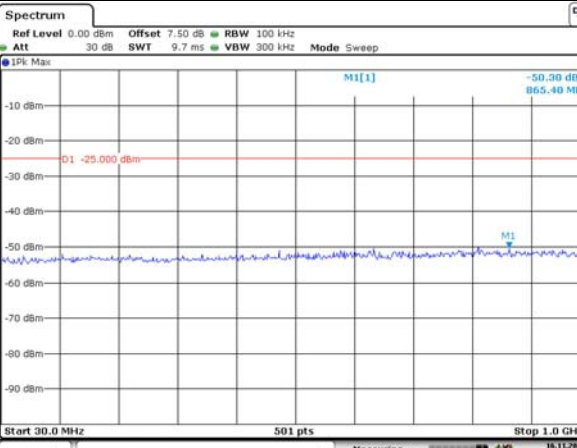
Lowest



Date: 16.NOV.2021 14:07:29

Date: 16.NOV.2021 14:07:48

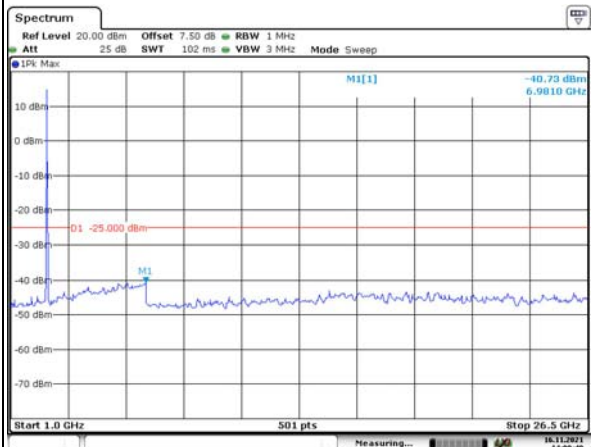
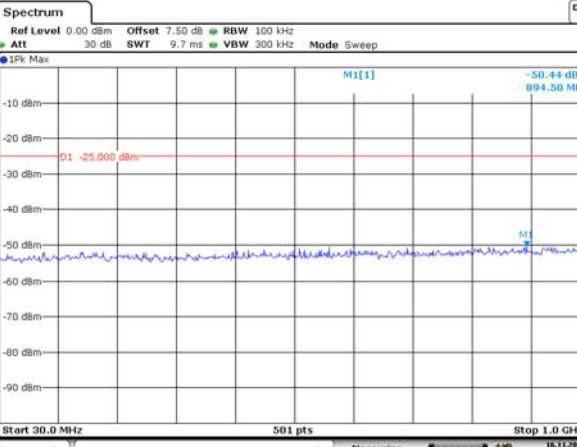
Middle



Date: 16.NOV.2021 14:08:20

Date: 16.NOV.2021 14:08:45

Highest



Date: 16.NOV.2021 14:09:15

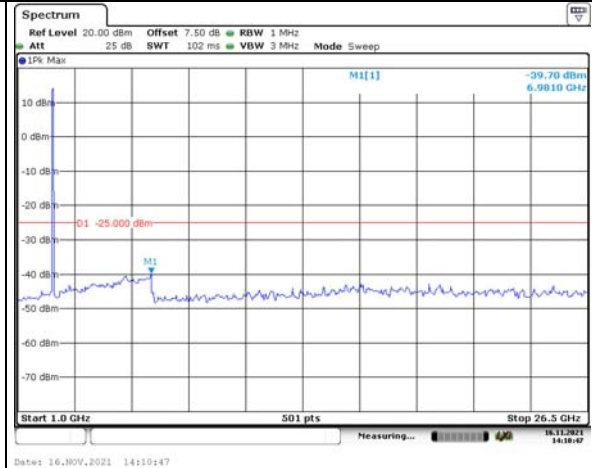
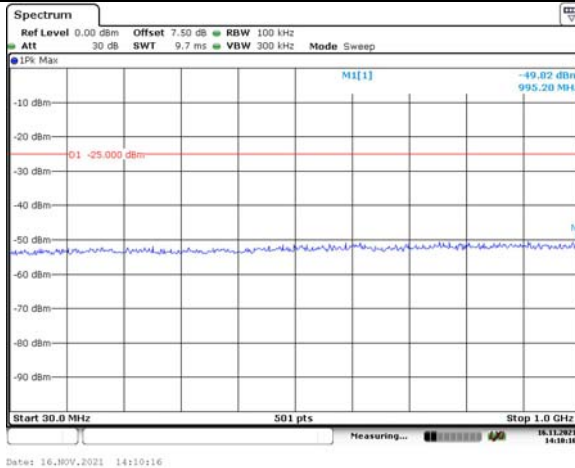
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Spurious Emissions at Antenna Terminal

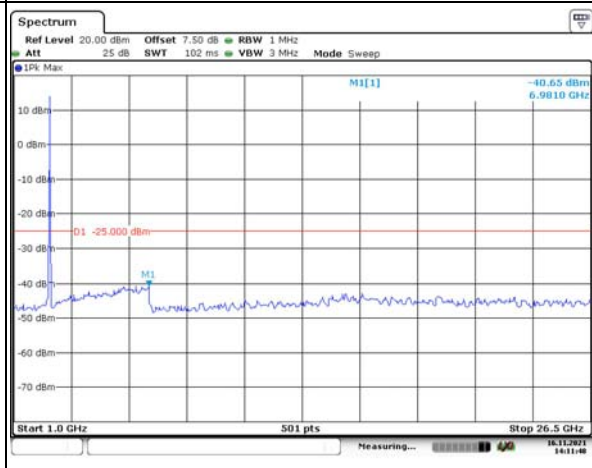
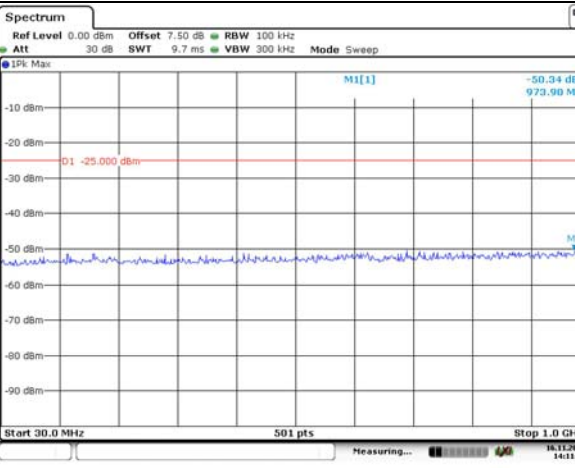
Channel

20MHz Bandwidth QPSK

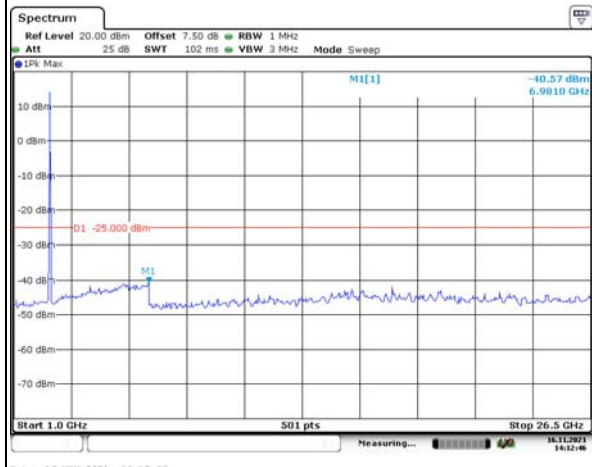
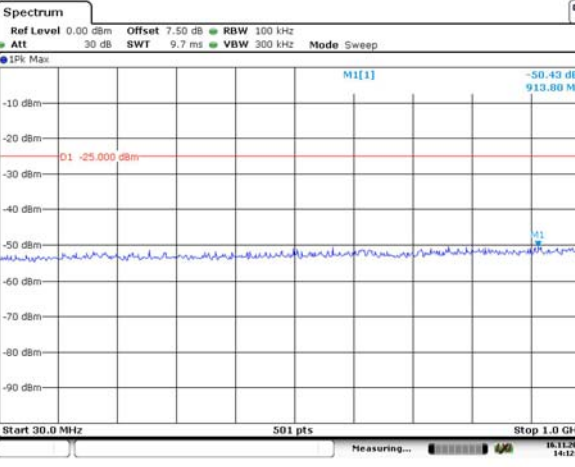
Lowest



Middle



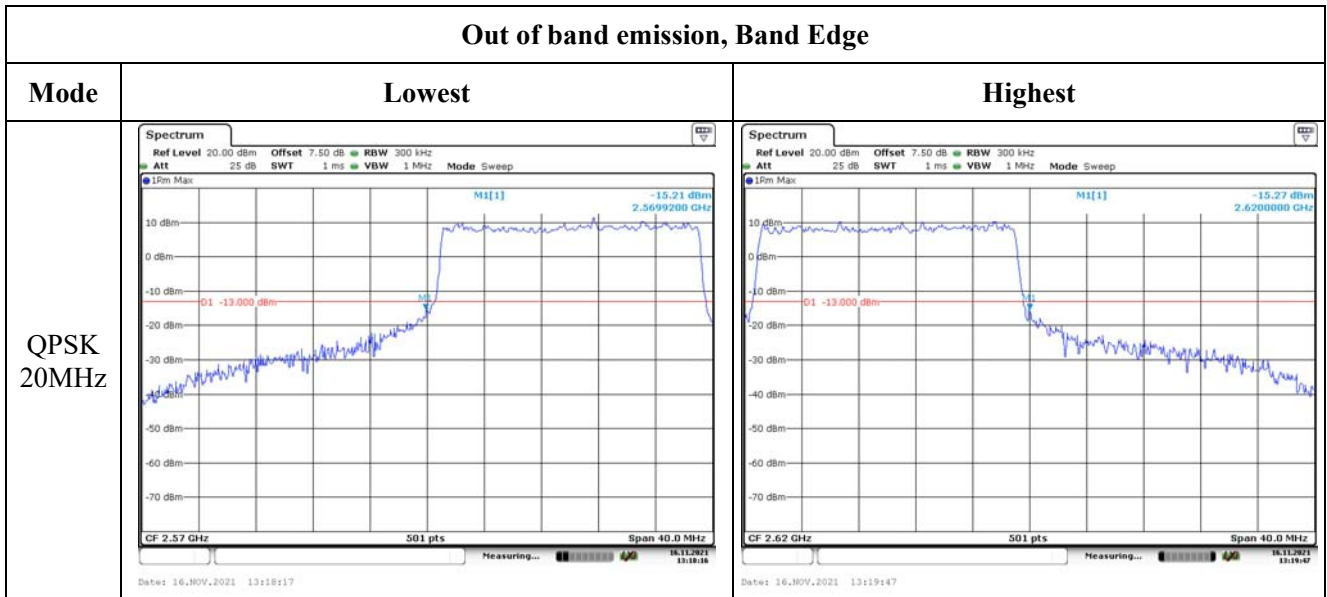
Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

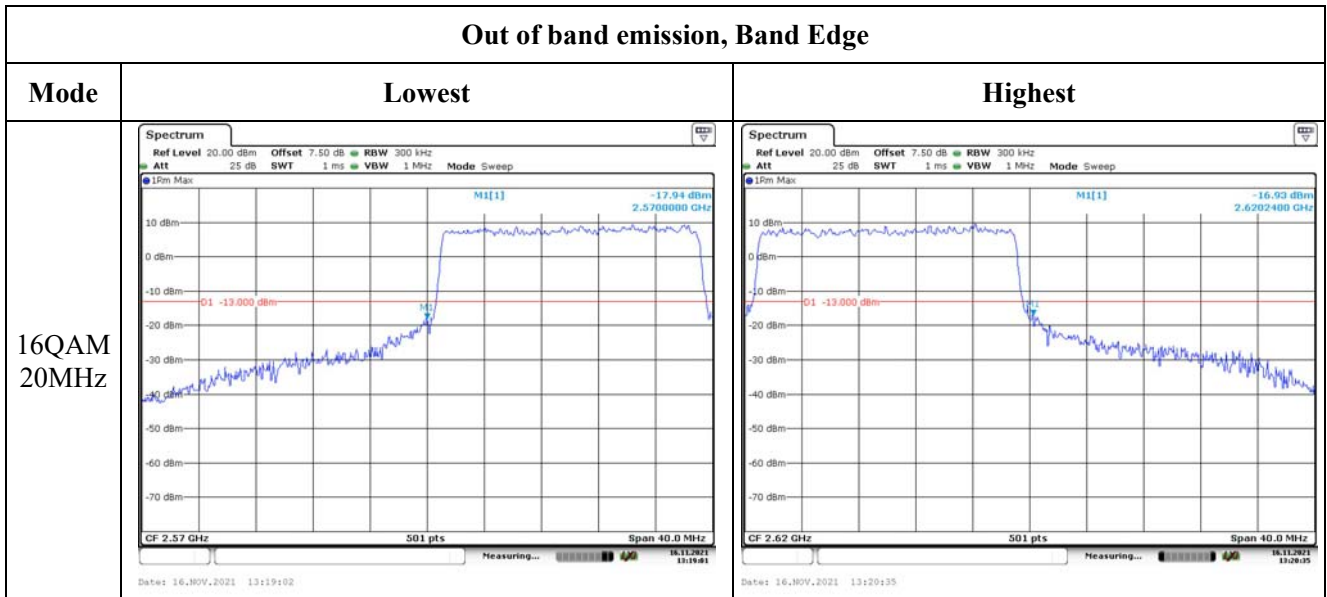
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz		
16QAM 10MHz		
16QAM 15MHz		

Out of band emission, Band Edge



4.8 Antenna Port Test Data and Results for LTE Band 41:

Serial Number:	CR21100112-RF-S1	Test Date:	2021/11/11~2021/11/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Thor Lei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.8~27.7	Relative Humidity: (%)	48~53	ATM Pressure: (kPa)	101.4~101.5
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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	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
44834	Two-way Splitter	ODP-1-6	OE0120176	Each Time	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).

EUT Information@LTE Band 41▲:

Antenna Gain (dBi):	1.0	Cable Loss (dB):	0.5
Operation Voltage(V _{DC}):			
Lowest:	3.5	Normal:	3.85
		Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2557.5	2605	2652.5
10MHz	2560	2605	2650
15MHz	2562.5	2605	2647.5
20MHz	2565	2605	2645

Test Data:**FCC§2.1046;§ 27.50(h)(2)****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		
5MHz QPSK	RB1#0	22.23	22.37	22.21	22.99	33
	RB1#13	22.37	22.49	22.30		
	RB1#24	22.30	22.39	22.13		
	RB15#0	21.27	21.45	21.25		
	RB15#10	21.34	21.46	21.23		
	RB25#0	21.33	21.46	21.23		
5MHz 16QAM	RB1#0	21.21	21.46	21.47	22.08	33
	RB1#13	21.36	21.58	21.55		
	RB1#24	21.28	21.48	21.44		
	RB15#0	20.30	20.46	20.29		
	RB15#10	20.31	20.48	20.28		
	RB25#0	20.39	20.51	20.22		
10MHz QPSK	RB1#0	22.31	22.51	22.31	23.31	33
	RB1#25	22.65	22.81	22.6		
	RB1#49	22.26	22.49	22.25		
	RB25#0	21.41	21.52	21.35		
	RB25#25	21.48	21.56	21.27		
	RB50#0	21.44	21.53	21.3		
10MHz 16QAM	RB1#0	21.49	21.46	21.45	22.33	33
	RB1#25	21.83	21.74	21.7		
	RB1#49	21.46	21.47	21.38		
	RB25#0	20.37	20.54	20.41		
	RB25#25	20.47	20.58	20.31		
	RB50#0	20.43	20.53	20.32		
15MHz QPSK	RB1#0	22.29	22.45	22.3	23.03	33
	RB1#38	22.36	22.53	22.37		
	RB1#74	22.37	22.45	22.22		
	RB36#0	21.31	21.52	21.41		
	RB36#39	21.56	21.56	21.3		
	RB75#0	21.5	21.52	21.35		
15MHz 16QAM	RB1#0	21.43	21.41	21.51	22.11	33
	RB1#38	21.6	21.53	21.61		
	RB1#74	21.59	21.41	21.45		
	RB36#0	20.45	20.41	20.42		
	RB36#39	20.53	20.5	20.33		
	RB75#0	20.44	20.54	20.33		
20MHz QPSK	RB1#0	22.1	22.23	22.2	23.23	33
	RB1#50	22.59	22.73	22.65		
	RB1#99	22.24	22.23	22.12		

	RB50#0	21.4	21.44	21.38		
	RB50#50	21.5	21.53	21.24		
	RB100#0	21.45	21.53	21.32		
20MHz 16QAM	RB1#0	21.15	21.31	21.43	22.39	33
	RB1#50	21.66	21.76	21.89		
	RB1#99	21.33	21.27	21.35		
	RB50#0	20.44	20.49	20.43		
	RB50#50	20.52	20.63	20.26		
	RB100#0	20.49	20.53	20.36		

Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(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	6.75	6.64	4.99	13
	RB100#0	5.83	6.29	6.70	13
20MHz 16QAM	RB1#0	5.59	6.41	5.68	13
	RB100#0	6.55	6.29	6.14	13
Result:					Pass

FCC §2.1049, §27.53: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
5MHz QPSK	4.491	4.511	4.511	4.960	4.860	5.080
5MHz 16QAM	4.491	4.491	4.511	5.220	5.140	4.980
10MHz QPSK	8.981	8.942	8.942	9.600	9.640	9.760
10MHz 16QAM	8.942	8.942	8.942	9.560	9.560	10.320
15MHz QPSK	13.533	13.473	13.473	15.420	15.480	15.780
15MHz 16QAM	13.533	13.593	13.533	16.380	16.020	17.160
20MHz QPSK	17.964	17.964	17.884	19.520	19.680	20.240
20MHz 16QAM	17.964	17.964	17.884	19.520	20.880	19.680

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

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, § 27.53: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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FCC §2.1055, §27.54: 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	3.85	2555.529	2555.00	2654.471	2655
	-20	3.85	2555.528	2555.00	2654.472	2655
	-10	3.85	2555.528	2555.00	2654.472	2655
	0	3.85	2555.529	2555.00	2654.471	2655
	10	3.85	2555.528	2555.00	2654.472	2655
	20	3.85	2555.529	2555.00	2654.471	2655
	30	3.85	2555.528	2555.00	2654.472	2655
	40	3.85	2555.529	2555.00	2654.472	2655
	50	3.85	2555.528	2555.00	2654.471	2655
Frequency Stability vs. Voltage	20	3.5	2555.528	2555.00	2654.471	2655
	20	4.4	2555.529	2555.00	2654.472	2655
					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	3.85	2555.528	2555.00	2654.471	2655
	-20	3.85	2555.529	2555.00	2654.472	2655
	-10	3.85	2555.528	2555.00	2654.472	2655
	0	3.85	2555.529	2555.00	2654.472	2655
	10	3.85	2555.528	2555.00	2654.471	2655
	20	3.85	2555.529	2555.00	2654.471	2655
	30	3.85	2555.528	2555.00	2654.471	2655
	40	3.85	2555.528	2555.00	2654.472	2655
	50	3.85	2555.529	2555.00	2654.472	2655
Frequency Stability vs. Voltage	20	3.5	2555.529	2555.00	2654.472	2655
	20	4.4	2555.529	2555.00	2654.472	2655
					Result:	Pass

Test Plots:

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -14.53 dBm 2.5575000 GHz D1[1] 4.491017964 MHz 0.47 dB D2 -14.340 dBm 4.9600 MHz CF 2.5575 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:12:34</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -15.77 dBm 2.5575000 GHz D1[1] 4.491017964 MHz 0.91 dB D2 -15.710 dBm 5.2200 MHz CF 2.5575 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:13:06</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -14.13 dBm 2.6025000 GHz D1[1] 4.510978044 MHz 0.54 dB D2 -14.650 dBm 4.8600 MHz CF 2.605 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:13:43</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -15.29 dBm 2.6025000 GHz D1[1] 4.491017964 MHz -0.52 dB D2 -15.770 dBm 5.1400 MHz CF 2.605 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:14:16</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -13.63 dBm 2.6499200 GHz D1[1] 4.510978044 MHz -0.32 dB D2 -13.660 dBm 5.0800 MHz CF 2.6525 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:14:56</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep IPk Max M1[1] -15.70 dBm 2.6500000 GHz D1[1] 4.510978044 MHz 0.48 dB D2 -15.510 dBm 4.9800 MHz CF 2.6525 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 12:15:23</p>

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -17.53 dBm 2.55520800 GHz 8.982035928 MHz 1.53 dB 9.6000 MHz CF 2.56 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:16:00</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -16.75 dBm 2.55524800 GHz 8.942115768 MHz 0.48 dB 9.5600 MHz CF 2.56 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:16:56</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -10.09 dBm 2.60016000 GHz 8.942115768 MHz 0.78 dB 9.6400 MHz CF 2.605 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:17:43</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -17.56 dBm 2.60024000 GHz 8.942115768 MHz -1.07 dB 9.5600 MHz CF 2.605 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:18:14</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -16.96 dBm 2.64504000 GHz 8.942115768 MHz -0.10 dB 9.7600 MHz CF 2.65 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:18:58</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -18.58 dBm 2.64484000 GHz 8.942115768 MHz -0.58 dB 10.3200 MHz CF 2.65 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 12:19:32</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>CF 2.5625 GHz 501 pts Span 30.0 MHz</p>	<p>CF 2.5625 GHz 501 pts Span 30.0 MHz</p>
Middle	<p>CF 2.605 GHz 501 pts Span 30.0 MHz</p>	<p>CF 2.605 GHz 501 pts Span 30.0 MHz</p>
Highest	<p>CF 2.6475 GHz 501 pts Span 30.0 MHz</p>	<p>CF 2.6475 GHz 501 pts Span 30.0 MHz</p>

Occupied Bandwidth

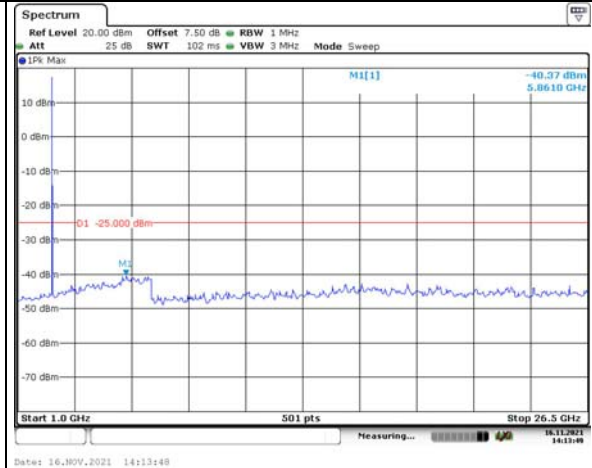
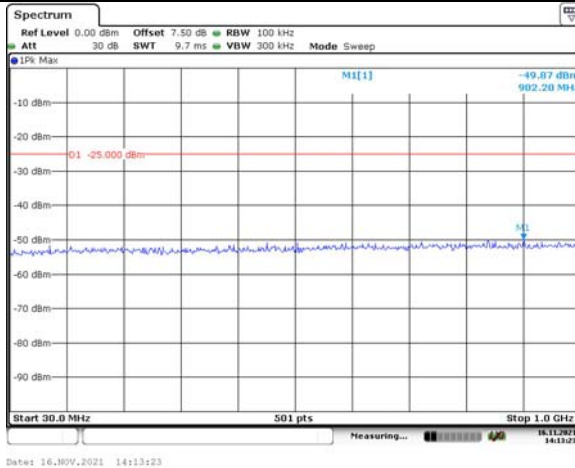
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

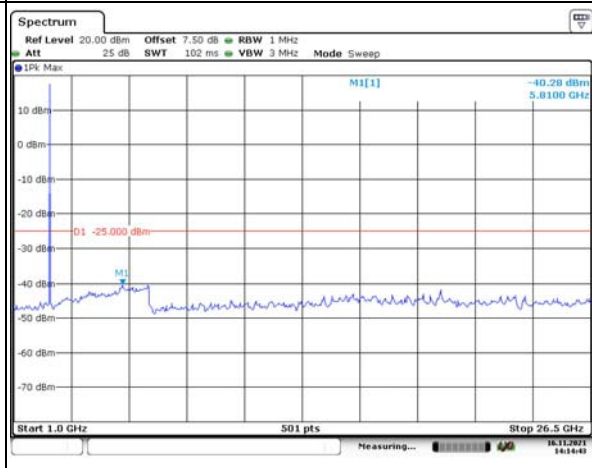
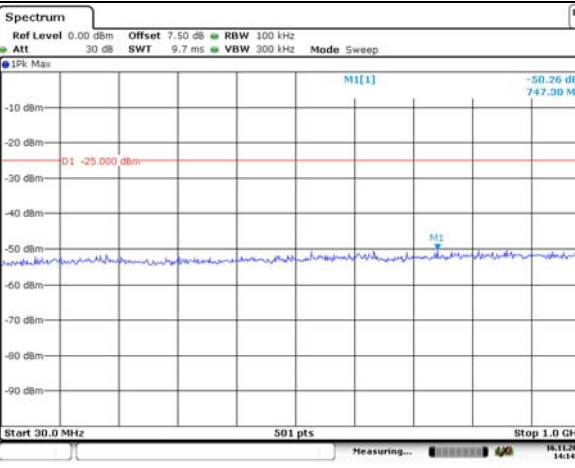
Channel

5MHz Bandwidth QPSK

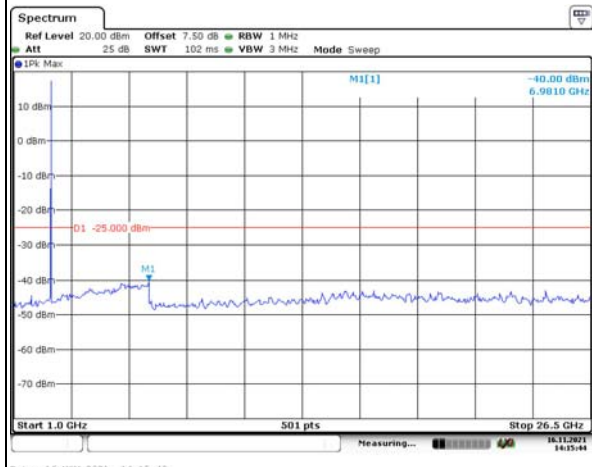
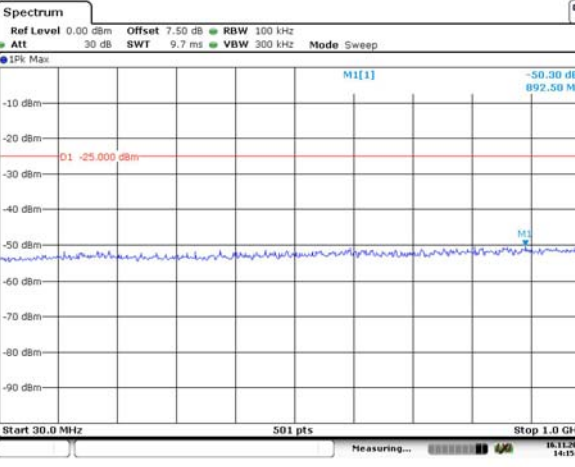
Lowest



Middle



Highest

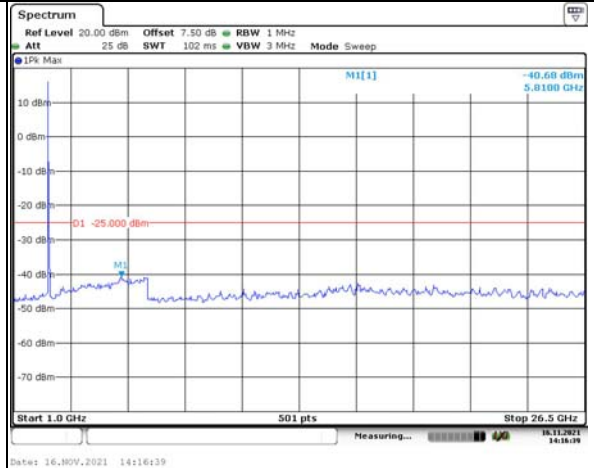
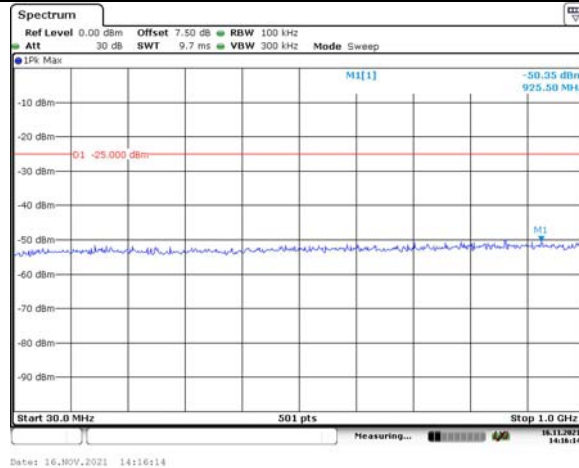


Spurious Emissions at Antenna Terminal

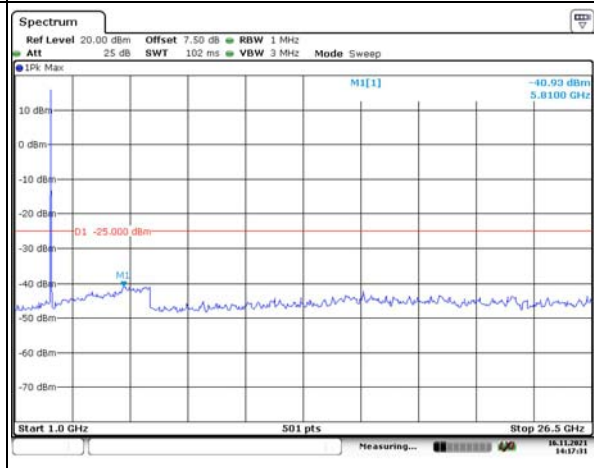
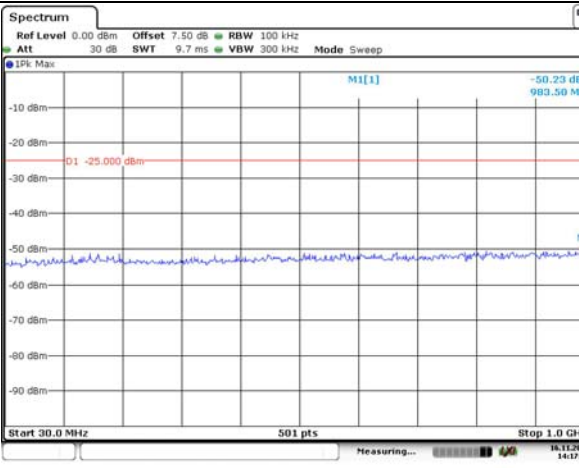
Channel

10MHz Bandwidth QPSK

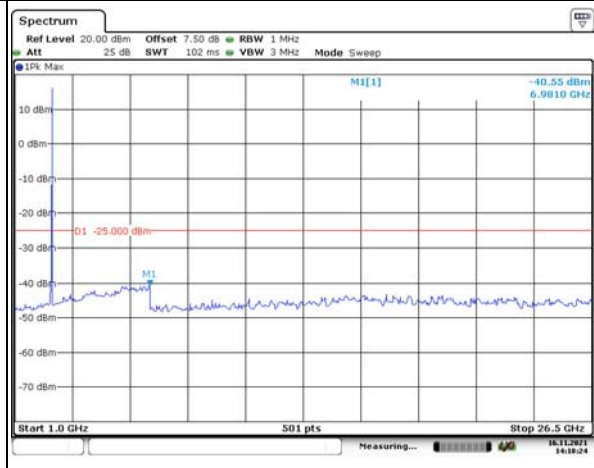
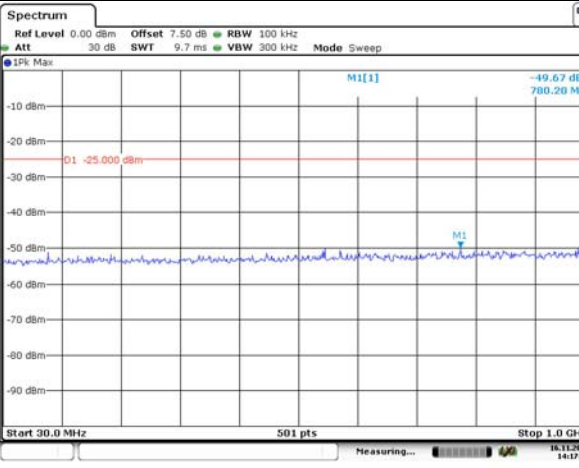
Lowest



Middle



Highest

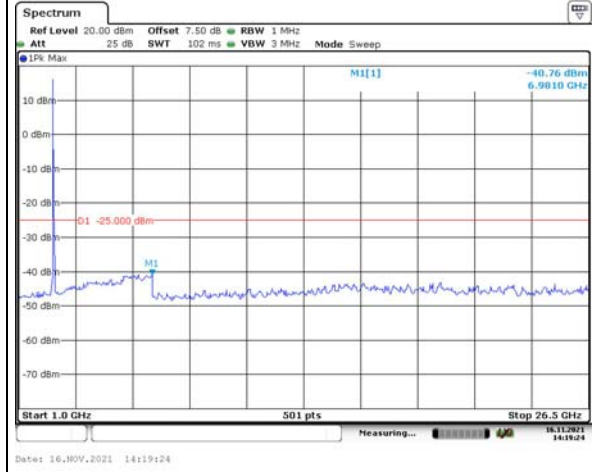
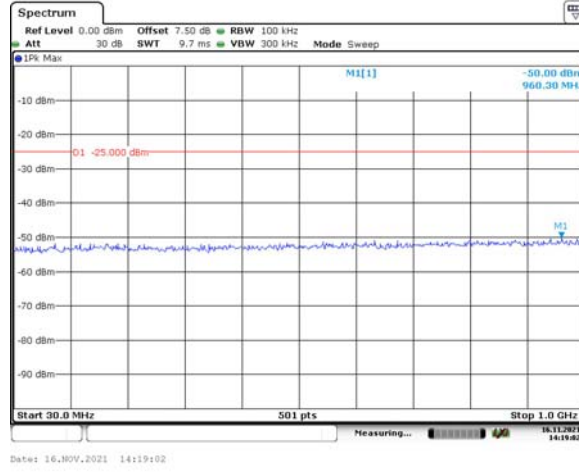


Spurious Emissions at Antenna Terminal

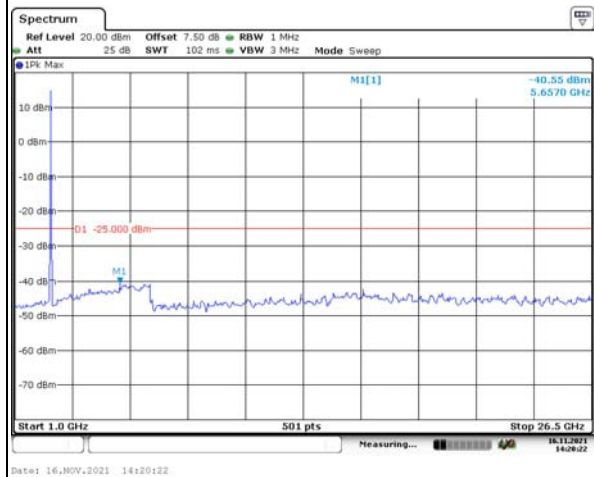
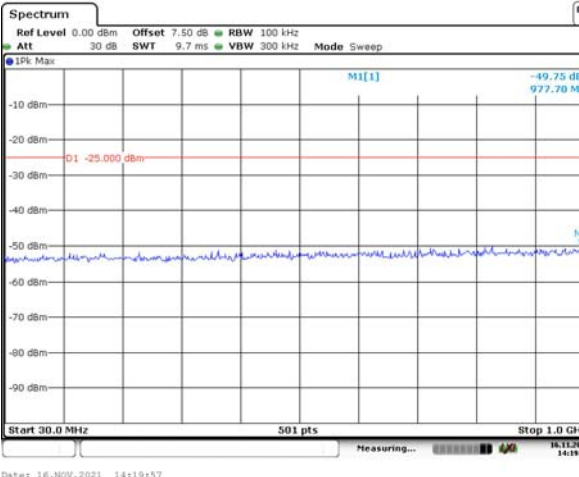
Channel

15MHz Bandwidth QPSK

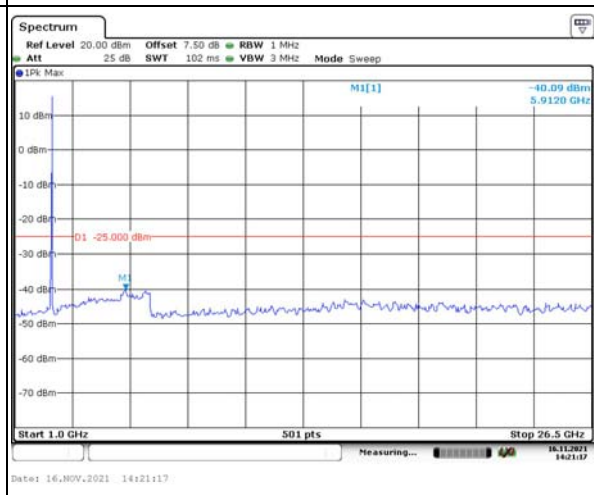
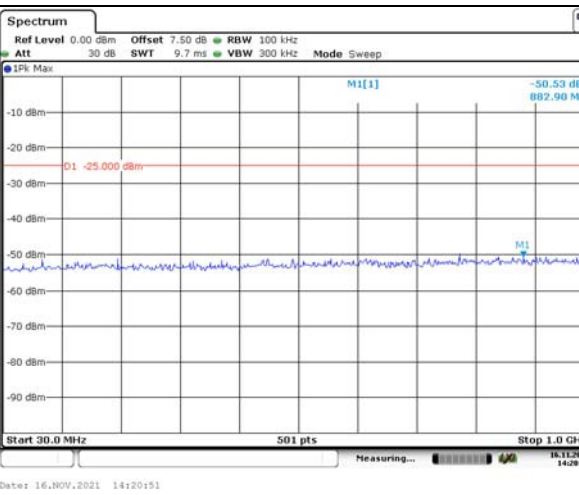
Lowest



Middle



Highest

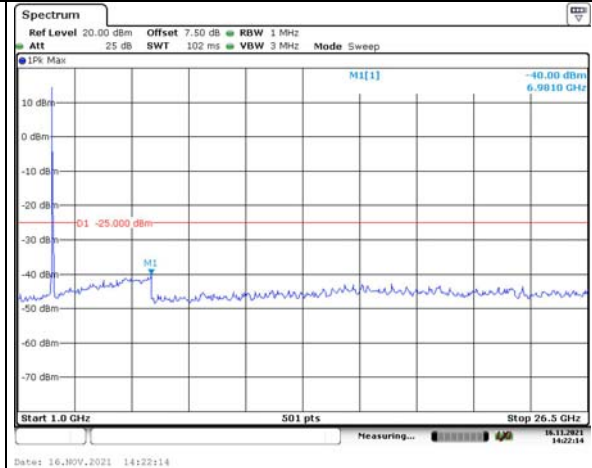
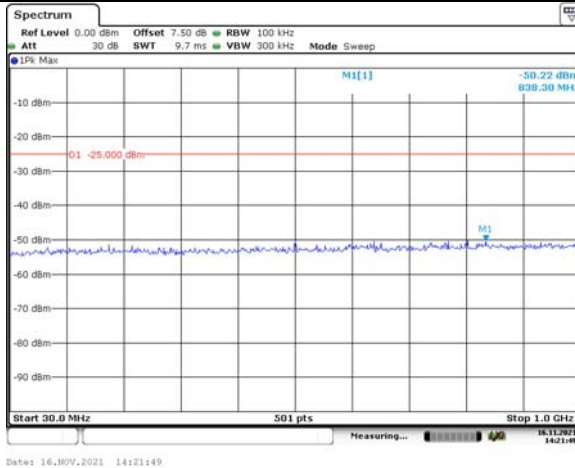


Spurious Emissions at Antenna Terminal

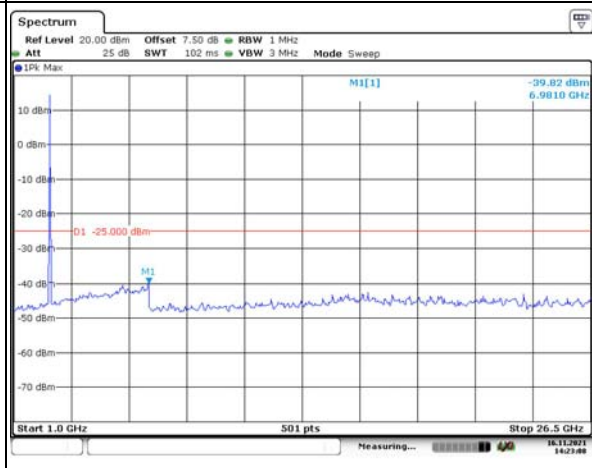
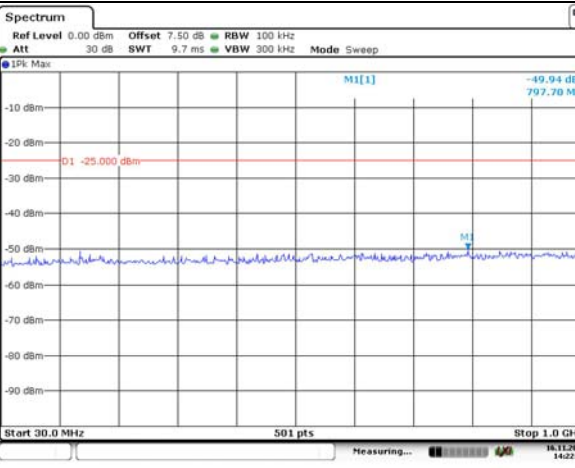
Channel

20MHz Bandwidth QPSK

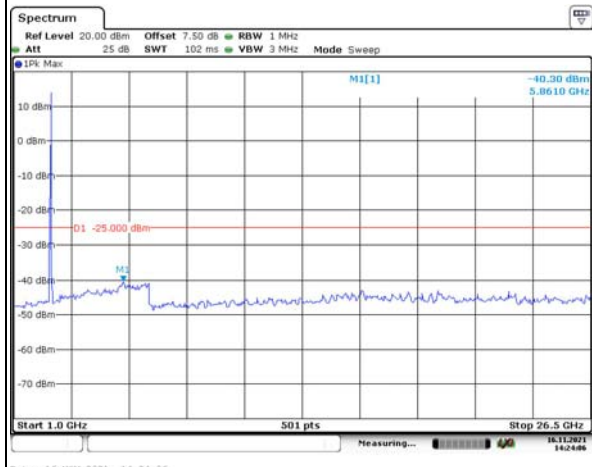
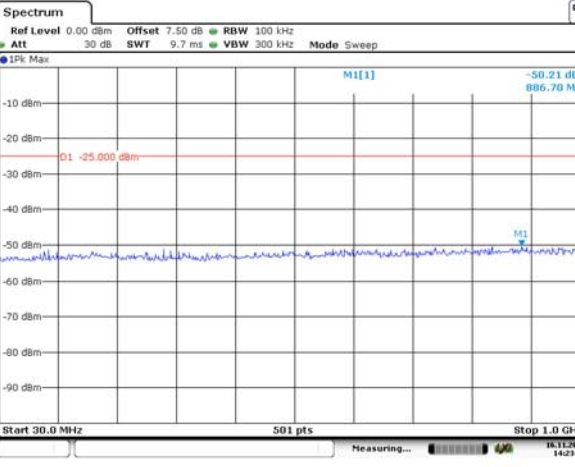
Lowest



Middle



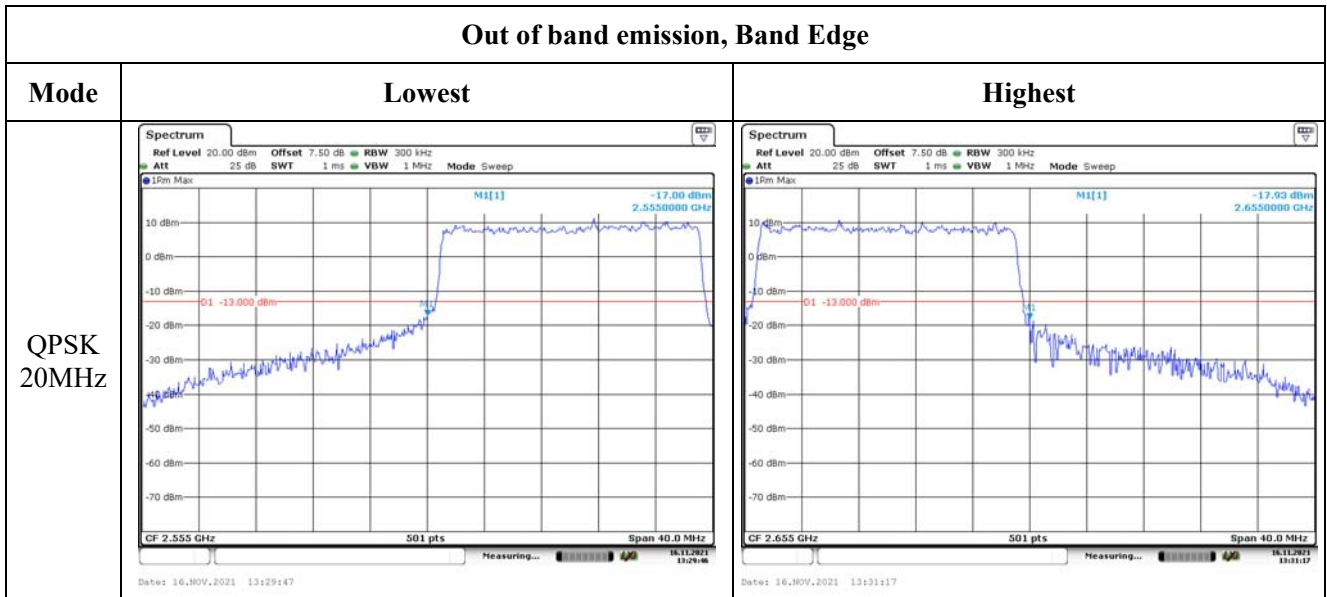
Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -15.98 dBm 2.5549400 GHz -13.000 dBm CF 2.555 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 13:21:11</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -17.25 dBm 2.6550200 GHz -13.000 dBm CF 2.655 GHz 501 pts Span 10.0 MHz Date: 16.NOV.2021 13:22:35</p>
QPSK 10MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -16.98 dBm 2.5550000 GHz -13.000 dBm CF 2.555 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 13:23:45</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep MI[1] -22.10 dBm 2.6552000 GHz -13.000 dBm CF 2.655 GHz 501 pts Span 20.0 MHz Date: 16.NOV.2021 13:24:49</p>
QPSK 15MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 10 ms VBW 1 MHz Mode Sweep MI[1] -29.14 dBm 2.5549400 GHz -13.000 dBm CF 2.555 GHz 501 pts Span 30.0 MHz Date: 16.NOV.2021 13:26:24</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 10 ms VBW 1 MHz Mode Sweep MI[1] -22.42 dBm 2.6550600 GHz -13.000 dBm CF 2.655 GHz 501 pts Span 30.0 MHz Date: 16.NOV.2021 13:28:12</p>

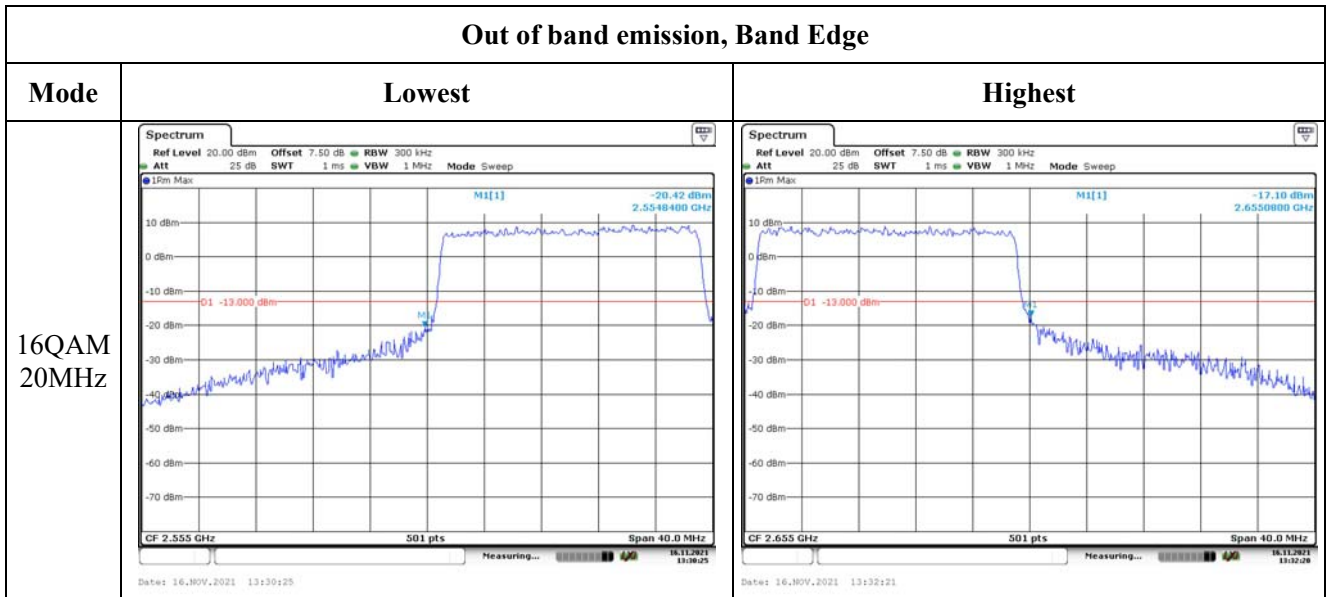
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz		
16QAM 10MHz		
16QAM 15MHz		

Out of band emission, Band Edge



4.9 Spurious Emissions

Serial Number:	CR21100112-RF-S1	Test Date:	2021-11-01~2021-11-05
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Great Qiao, Carl Laing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.6~25.4	Relative Humidity: (%)	60~70	ATM Pressure: (kPa)	101.1~101.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2023-02-04
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-08-08	2022-08-07
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021-10-18	2023-10-17
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021-02-05	2023-02-04
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24

Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-3100+	31251	2021-08-08	2022-08-07

** 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:

Cellular Band (PART 22H)**30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
1648.40	H	55.36	-56.93	8.68	0.80	-49.05	-13.00	36.05
1648.40	V	72.56	-39.81	8.68	0.80	-31.93	-13.00	18.93
2472.60	H	44.87	-64.43	9.38	1.00	-56.05	-13.00	43.05
2472.60	V	49.48	-59.78	9.38	1.00	-51.40	-13.00	38.40
3296.80	H	45.26	-60.95	10.32	1.15	-51.78	-13.00	38.78
3296.80	V	51.16	-54.81	10.32	1.15	-45.64	-13.00	32.64
941.70	H	42.72	-55.32	0.00	0.63	-55.95	-13.00	42.95
56.00	V	46.29	-57.81	-12.14	0.14	-70.09	-13.00	57.09
GSM 850 Frequency:836.6MHz								
1673.20	H	55.42	-56.86	8.71	0.85	-49.00	-13.00	36.00
1673.20	V	67.24	-45.14	8.71	0.85	-37.28	-13.00	24.28
2509.80	H	48.89	-60.32	9.42	1.01	-51.91	-13.00	38.91
2509.80	V	53.69	-55.54	9.42	1.01	-47.13	-13.00	34.13
3346.40	H	45.95	-60.76	10.34	1.16	-51.58	-13.00	38.58
3346.40	V	51.37	-55.21	10.34	1.16	-46.03	-13.00	33.03
941.70	H	42.65	-55.39	0.00	0.63	-56.02	-13.00	43.02
778.90	V	45.92	-53.36	0.00	0.54	-53.90	-13.00	40.90
GSM 850 Frequency:848.8MHz								
1697.60	H	56.38	-55.89	8.74	0.90	-48.05	-13.00	35.05
1697.60	V	69.94	-42.46	8.74	0.90	-34.62	-13.00	21.62
2546.40	H	50.73	-58.34	9.47	1.01	-49.88	-13.00	36.88
2546.40	V	56.03	-52.99	9.47	1.01	-44.53	-13.00	31.53
3395.20	H	45.88	-61.39	10.36	1.19	-52.22	-13.00	39.22
3395.20	V	50.36	-56.88	10.36	1.19	-47.71	-13.00	34.71
221.60	H	41.87	-70.59	0.00	0.27	-70.86	-13.00	57.86
57.40	V	45.06	-59.71	-11.50	0.14	-71.35	-13.00	58.35

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)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	42.65	-69.64	8.68	0.81	-61.77	-13.00	48.77
1652.80	V	42.79	-69.58	8.68	0.81	-61.71	-13.00	48.71
2479.20	H	45.69	-63.60	9.39	1.01	-55.22	-13.00	42.22
2479.20	V	44.19	-65.07	9.39	1.01	-56.69	-13.00	43.69
3305.60	H	43.67	-62.58	10.32	1.15	-53.41	-13.00	40.41
3305.60	V	43.17	-62.86	10.32	1.15	-53.69	-13.00	40.69
703.10	H	37.22	-67.32	0.00	0.55	-67.87	-13.00	54.87
894.00	V	48.62	-47.95	0.00	0.66	-48.61	-13.00	35.61
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	43.65	-68.63	8.71	0.85	-60.77	-13.00	47.77
1673.20	V	42.56	-69.82	8.71	0.85	-61.96	-13.00	48.96
2509.80	H	43.59	-65.62	9.42	1.01	-57.21	-13.00	44.21
2509.80	V	44.18	-65.05	9.42	1.01	-56.64	-13.00	43.64
3346.40	H	43.78	-62.93	10.34	1.16	-53.75	-13.00	40.75
3346.40	V	45.81	-60.77	10.34	1.16	-51.59	-13.00	38.59
571.20	H	37.80	-67.60	0.00	0.46	-68.06	-13.00	55.06
60.20	V	46.20	-59.74	-10.19	0.14	-70.07	-13.00	57.07
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	42.65	-69.62	8.73	0.89	-61.78	-13.00	48.78
1693.20	V	42.87	-69.53	8.73	0.89	-61.69	-13.00	48.69
2539.80	H	43.66	-65.44	9.46	1.01	-56.99	-13.00	43.99
2539.80	V	44.34	-64.72	9.46	1.01	-56.27	-13.00	43.27
3386.40	H	44.25	-62.92	10.35	1.18	-53.75	-13.00	40.75
3386.40	V	44.65	-62.47	10.35	1.18	-53.30	-13.00	40.30
566.90	H	37.33	-68.16	0.00	0.46	-68.62	-13.00	55.62
85.40	V	46.17	-62.82	0.00	0.17	-62.99	-13.00	49.99

PCS Band (PART 24E)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
3700.40	H	47.76	-58.89	10.60	1.25	-49.54	-13.00	36.54
3700.40	V	45.42	-61.21	10.60	1.25	-51.86	-13.00	38.86
5550.60	H	48.02	-56.29	11.44	1.49	-46.34	-13.00	33.34
5550.60	V	49.87	-54.27	11.44	1.49	-44.32	-13.00	31.32
171.10	H	38.67	-73.42	0.00	0.24	-73.66	-13.00	60.66
43.30	V	45.76	-48.34	-22.04	0.12	-70.50	-13.00	57.50
GSM 1900 Frequency:1880MHz								
3760.00	H	47.86	-58.21	10.66	1.24	-48.79	-13.00	35.79
3760.00	V	46.38	-59.58	10.66	1.24	-50.16	-13.00	37.16
5640.00	H	46.63	-58.08	11.33	1.54	-48.29	-13.00	35.29
5640.00	V	51.44	-53.14	11.33	1.54	-43.35	-13.00	30.35
36.30	H	38.96	-40.23	-24.62	0.11	-64.96	-13.00	51.96
43.30	V	45.37	-48.73	-22.04	0.12	-70.89	-13.00	57.89
GSM 1900 Frequency:1909.8MHz								
3819.60	H	47.21	-58.54	10.72	1.29	-49.11	-13.00	36.11
3819.60	V	51.16	-54.44	10.72	1.29	-45.01	-13.00	32.01
5729.40	H	47.03	-57.72	11.22	1.59	-48.09	-13.00	35.09
5729.40	V	49.46	-55.16	11.22	1.59	-45.53	-13.00	32.53
36.30	H	38.95	-40.24	-24.62	0.11	-64.97	-13.00	51.97
30.70	V	48.87	-31.75	-25.98	0.10	-57.83	-13.00	44.83

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)			
WCDMA Band II, Frequency: 1852.4 MHz								
3704.80	H	49.52	-57.08	10.60	1.25	-47.73	-13.00	34.73
3704.80	V	46.98	-59.60	10.60	1.25	-50.25	-13.00	37.25
5557.20	H	43.99	-60.35	11.43	1.49	-50.41	-13.00	37.41
5557.20	V	44.12	-60.07	11.43	1.49	-50.13	-13.00	37.13
230.75	H	37.35	-74.93	0.00	0.29	-75.22	-13.00	62.22
54.60	V	43.65	-59.78	-12.78	0.13	-72.69	13.00	85.69
WCDMA Band II, Frequency: 1880 MHz								
3760.00	H	50.35	-55.72	10.66	1.24	-46.30	-13.00	33.30
3760.00	V	47.85	-58.11	10.66	1.24	-48.69	-13.00	35.69
5640.00	H	43.76	-60.95	11.33	1.54	-51.16	-13.00	38.16
5640.00	V	44.75	-59.83	11.33	1.54	-50.04	-13.00	37.04
783.10	H	37.12	-65.60	0.00	0.55	-66.15	-13.00	53.15
54.60	V	42.96	-60.47	-12.78	0.13	-73.38	-13.00	60.38
WCDMA Band II, Frequency: 1907.6MHz								
3815.20	H	51.50	-54.23	10.72	1.29	-44.80	-13.00	31.80
3815.20	V	47.56	-58.02	10.72	1.29	-48.59	-13.00	35.59
5722.80	H	44.27	-60.52	11.23	1.58	-50.87	-13.00	37.87
5722.80	V	44.25	-60.41	11.23	1.58	-50.76	-13.00	37.76
405.50	H	37.56	-71.52	0.00	0.41	-71.93	-13.00	58.93
54.60	V	43.71	-59.72	-12.78	0.13	-72.63	-13.00	59.63

LTE Band 5(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)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	45.72	-66.57	8.68	0.80	-58.69	-13.00	45.69
1649.40	V	61.25	-51.12	8.68	0.80	-43.24	-13.00	30.24
2474.10	H	56.25	-53.05	9.38	1.00	-44.67	-13.00	31.67
2474.10	V	54.96	-54.30	9.38	1.00	-45.92	-13.00	32.92
3298.80	H	47.46	-58.74	10.32	1.15	-49.57	-13.00	36.57
3298.80	V	45.18	-60.78	10.32	1.15	-51.61	-13.00	38.61
32.10	H	40.38	-33.50	-25.33	0.10	-58.93	-13.00	45.93
60.20	V	51.38	-54.56	-10.19	0.14	-64.89	-13.00	51.89
QPSK, Frequency: 836.5 MHz								
1673.00	H	43.68	-68.60	8.71	0.85	-60.74	-13.00	47.74
1673.00	V	52.25	-60.13	8.71	0.85	-52.27	-13.00	39.27
2509.50	H	57.58	-51.63	9.42	1.01	-43.22	-13.00	30.22
2509.50	V	56.78	-52.45	9.42	1.01	-44.04	-13.00	31.04
3346.00	H	48.27	-58.44	10.34	1.16	-49.26	-13.00	36.26
3346.00	V	46.95	-59.62	10.34	1.16	-50.44	-13.00	37.44
36.30	H	38.67	-40.52	-24.62	0.11	-65.25	-13.00	52.25
60.20	V	53.67	-52.27	-10.19	0.14	-62.60	-13.00	49.60
QPSK, Frequency: 848.3 MHz								
1696.60	H	47.55	-64.72	8.74	0.89	-56.87	-13.00	43.87
1696.60	V	56.64	-55.76	8.74	0.89	-47.91	-13.00	34.91
2544.90	H	59.23	-49.85	9.47	1.01	-41.39	-13.00	28.39
2544.90	V	59.08	-49.95	9.47	1.01	-41.49	-13.00	28.49
3393.20	H	50.37	-56.87	10.36	1.19	-47.70	-13.00	34.70
3393.20	V	47.21	-60.00	10.36	1.19	-50.83	-13.00	37.83
35.70	H	38.46	-39.88	-24.34	0.11	-64.33	-13.00	51.33
60.20	V	51.95	-53.99	-10.19	0.14	-64.32	-13.00	51.32

LTE Band 7(30MHz-26.5GHz):

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)			
QPSK, Frequency: 2502.5 MHz								
5005.00	H	48.07	-54.32	11.20	1.47	-44.59	-25.00	19.59
5005.00	V	51.52	-50.73	11.20	1.47	-41.00	-25.00	16.00
7507.50	H	42.35	-57.14	10.90	1.95	-48.19	-25.00	23.19
7507.50	V	42.61	-57.38	10.90	1.95	-48.43	-25.00	23.43
234.20	H	40.54	-71.67	0.00	0.29	-71.96	-25.00	46.96
78.40	V	46.12	-61.50	-0.80	0.16	-62.46	-25.00	37.46
QPSK, Frequency:2535 MHz								
5070.00	H	47.85	-54.39	11.24	1.47	-44.62	-25.00	19.62
5070.00	V	49.11	-53.02	11.24	1.47	-43.25	-25.00	18.25
7605.00	H	43.15	-56.09	10.88	2.01	-47.22	-25.00	22.22
7605.00	V	42.63	-57.32	10.88	2.01	-48.45	-25.00	23.45
234.20	H	43.46	-68.75	0.00	0.29	-69.04	-25.00	44.04
53.20	V	47.81	-54.95	-13.43	0.13	-68.51	-25.00	43.51
QPSK, Frequency: 2567.5 MHz								
5135.00	H	50.14	-52.15	11.28	1.47	-42.34	-25.00	17.34
5135.00	V	52.75	-49.42	11.28	1.47	-39.61	-25.00	14.61
7702.50	H	43.26	-56.08	10.86	1.97	-47.19	-25.00	22.19
7702.50	V	43.42	-56.58	10.86	1.97	-47.69	-25.00	22.69
234.20	H	41.95	-70.26	0.00	0.29	-70.55	-25.00	45.55
54.60	V	47.53	-55.90	-12.78	0.13	-68.81	-25.00	43.81

LTE Band 38 (30MHz-26.5GHz):

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)			
QPSK, Frequency: 2572.5 MHz								
5145.00	H	51.42	-50.90	11.29	1.44	-41.05	-25.00	16.05
5145.00	V	55.48	-46.72	11.29	1.44	-36.87	-25.00	11.87
7717.50	H	48.19	-51.13	10.86	1.99	-42.26	-25.00	17.26
7717.50	V	44.72	-55.22	10.86	1.99	-46.35	-25.00	21.35
748.00	H	37.18	-66.34	0.00	0.54	-66.88	-25.00	41.88
54.60	V	47.60	-55.83	-12.78	0.13	-68.74	-25.00	43.74
QPSK, Frequency: 2595 MHz								
5190.00	H	54.19	-48.28	11.31	1.44	-38.41	-25.00	13.41
5190.00	V	54.26	-48.06	11.31	1.44	-38.19	-25.00	13.19
7785.00	H	45.26	-53.97	10.84	1.99	-45.12	-25.00	20.12
7785.00	V	44.56	-55.10	10.84	1.99	-46.25	-25.00	21.25
540.00	H	37.83	-68.21	0.00	0.46	-68.67	-25.00	43.67
54.60	V	47.92	-55.51	-12.78	0.13	-68.42	-25.00	43.42
QPSK, Frequency: 2617.5 MHz								
5235.00	H	56.38	-46.40	11.34	1.46	-36.52	-25.00	11.52
5235.00	V	54.06	-48.53	11.34	1.46	-38.65	-25.00	13.65
7852.50	H	44.56	-54.47	10.83	2.03	-45.67	-25.00	20.67
7852.50	V	43.75	-55.67	10.83	2.03	-46.87	-25.00	21.87
32.10	H	39.74	-34.14	-25.33	0.10	-59.57	-25.00	34.57
60.20	V	52.40	-53.54	-10.19	0.14	-63.87	-25.00	38.87

LTE Band 41 (30MHz-26.5GHz):

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)			
QPSK, Frequency: 2557.5 MHz								
5115.00	H	53.56	-48.66	11.27	1.51	-38.90	-25.00	13.90
5115.00	V	53.22	-48.90	11.27	1.51	-39.14	-25.00	14.14
7672.50	H	40.86	-58.45	10.87	2.03	-49.61	-25.00	24.61
7672.50	V	41.83	-58.16	10.87	2.03	-49.32	-25.00	24.32
291.80	H	38.94	-71.97	0.00	0.33	-72.30	-25.00	47.3
54.60	V	45.31	-58.12	-12.78	0.13	-71.03	-25.00	46.03
QPSK, Frequency:2605 MHz								
5210.00	H	52.77	-49.81	11.33	1.45	-39.93	-25.00	14.93
5210.00	V	54.52	-47.90	11.33	1.45	-38.02	-25.00	13.02
7815.00	H	48.56	-50.60	10.84	1.99	-41.75	-25.00	16.75
7815.00	V	44.53	-55.02	10.84	1.99	-46.17	-25.00	21.17
669.40	H	38.61	-66.06	0.00	0.50	-66.56	-25.00	41.56
54.60	V	44.28	-59.15	-12.78	0.13	-72.06	-25.00	47.06
QPSK, Frequency: 2652.5 MHz								
5305.00	H	50.84	-52.52	11.38	1.46	-42.60	-25.00	17.60
5305.00	V	55.72	-47.39	11.38	1.46	-37.47	-25.00	12.47
7957.50	H	52.47	-45.85	10.81	2.09	-37.13	-25.00	12.13
7957.50	V	47.88	-50.89	10.81	2.09	-42.17	-25.00	17.17
630.10	H	38.56	-66.19	0.00	0.48	-66.67	-25.00	41.67
54.60	V	45.27	-58.16	-12.78	0.13	-71.07	-25.00	46.07

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

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