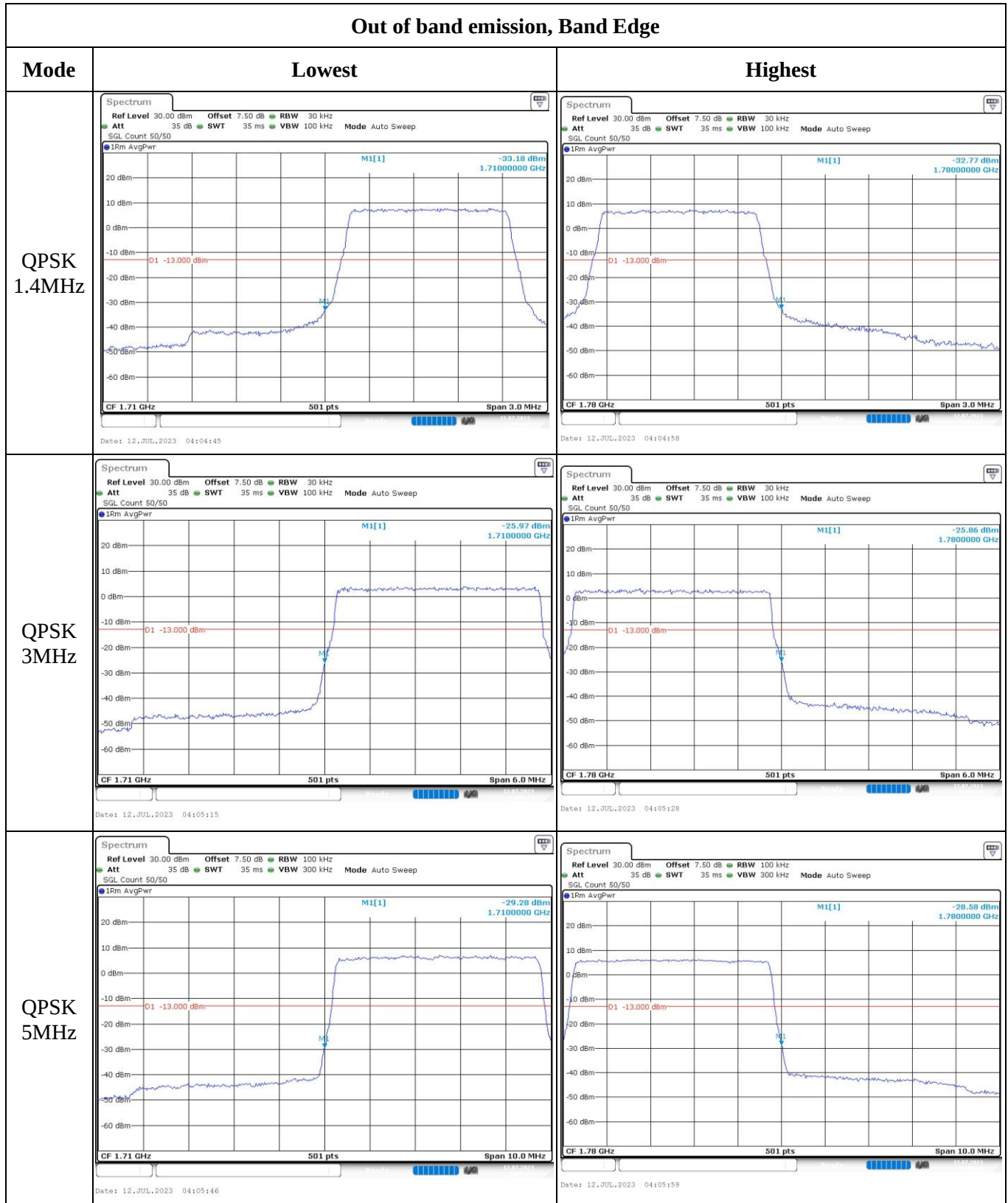
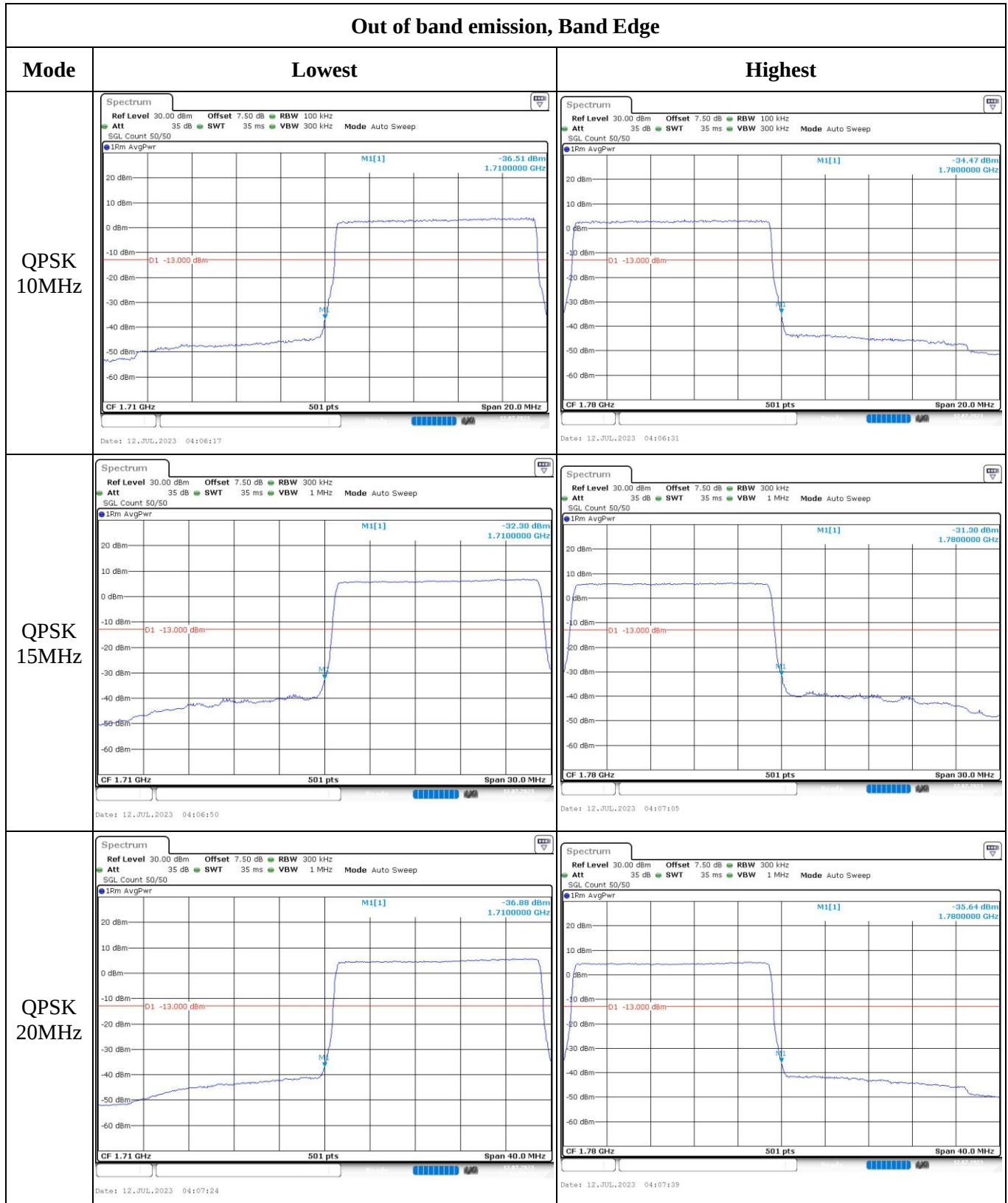


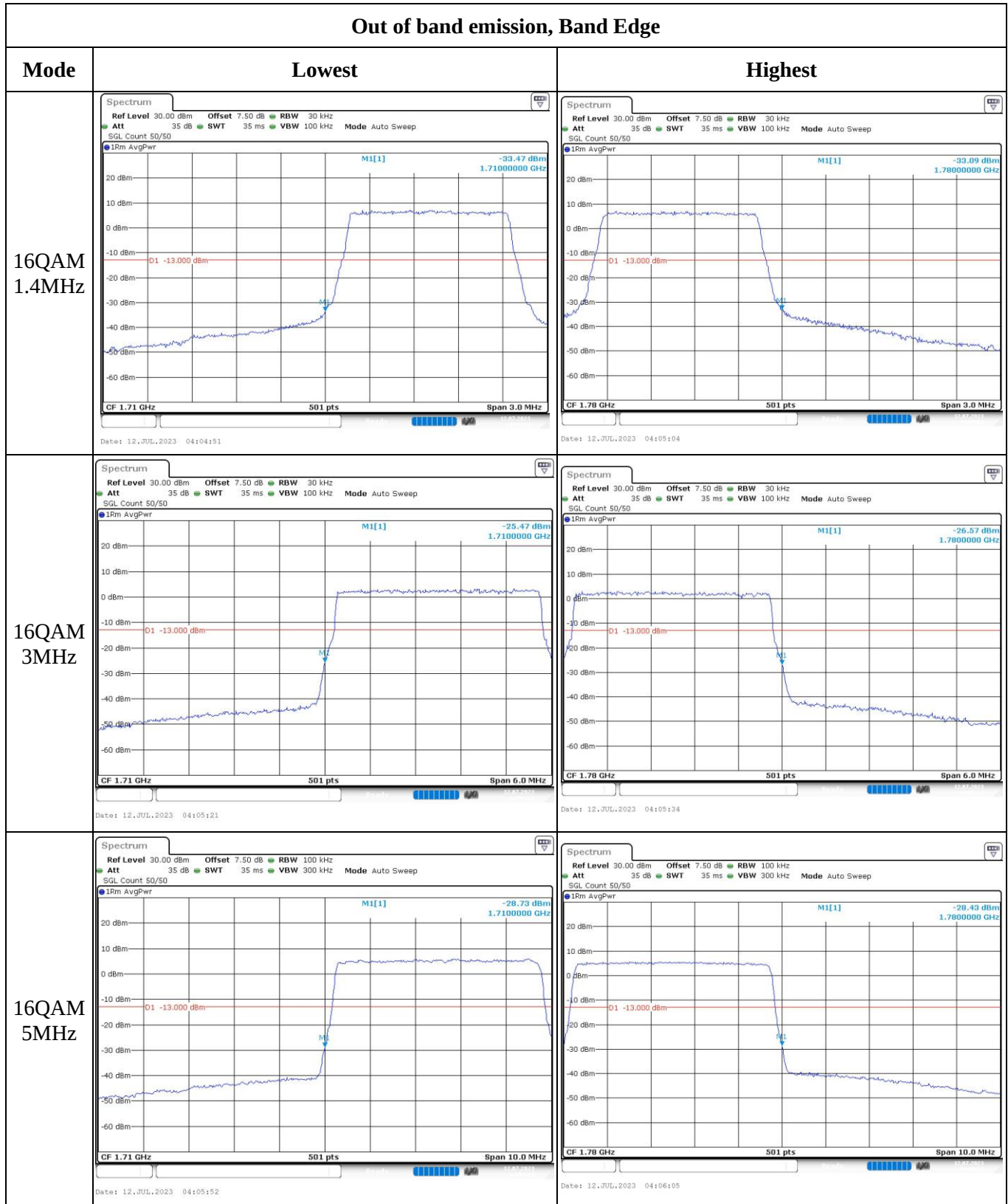
Out of band emission, Band Edge



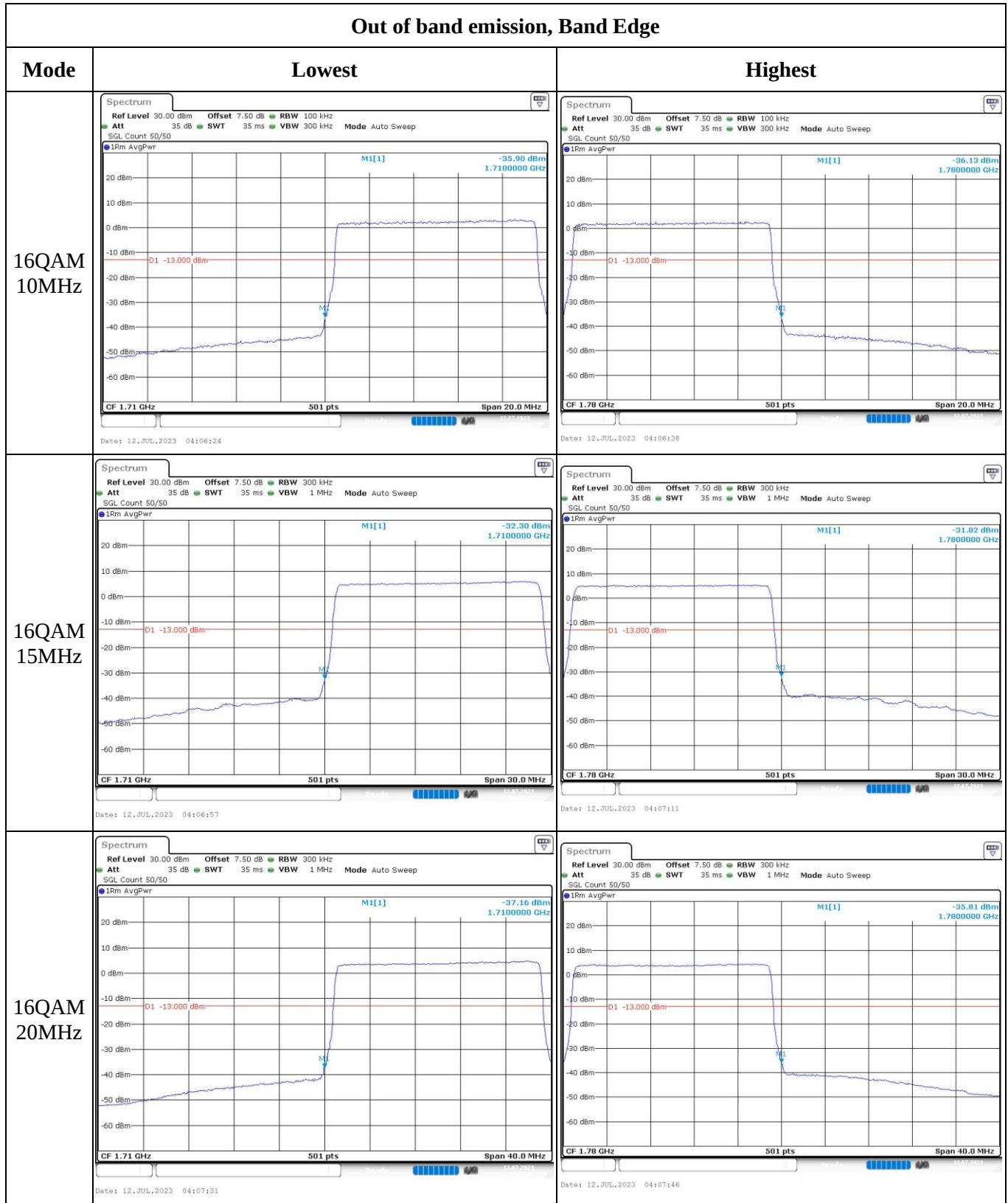
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.11 Radiated Spurious Emissions

Serial Number:	27W6-4	Test Date:	2023/07/17~2023/08/01
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Vic Du, Tao Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.3~29	Relative Humidity: (%)	59~64	ATM Pressure: (kPa)	99.1~99.9
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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	2023/03/31	2024/03/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/07/16	2024/07/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/07/16	2024/07/15
Sonoma	Amplifier	310N	186165	2023/07/16	2024/07/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2023/07/16	2024/07/15
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/08/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/08/16
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/09/16	2023/09/15
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/02/05	2024/02/04
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

*** 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)**30 MHz-10 GHz:**

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)			
GSM 850 Frequency:824.2MHz								
193.90	H	19.24	-62.03	0.00	0.26	-62.29	-13.00	49.29
318.88	V	20.09	-57.09	0.00	0.34	-57.43	-13.00	44.43
1648.400	H	40.05	-64.28	8.68	0.80	-56.40	-13.00	43.40
1648.400	V	38.84	-65.57	8.68	0.80	-57.69	-13.00	44.69
2472.600	H	43.64	-57.14	9.38	1.00	-48.76	-13.00	35.76
2472.600	V	45.25	-55.48	9.38	1.00	-47.10	-13.00	34.10
3296.800	H	34.25	-62.43	10.32	1.15	-53.26	-13.00	40.26
3296.800	V	34.33	-62.11	10.32	1.15	-52.94	-13.00	39.94
GSM 850 Frequency:836.6MHz								
279.35	H	19.39	-60.58	0.00	0.32	-60.90	-13.00	47.90
721.82	V	20.66	-48.78	0.00	0.50	-49.28	-13.00	36.28
1673.200	H	37.66	-66.65	8.71	0.85	-58.79	-13.00	45.79
1673.200	V	37.57	-66.84	8.71	0.85	-58.98	-13.00	45.98
2509.800	H	45.21	-55.40	9.42	1.01	-46.99	-13.00	33.99
2509.800	V	45.47	-55.15	9.42	1.01	-46.74	-13.00	33.74
3346.400	H	34.52	-62.65	10.34	1.16	-53.47	-13.00	40.47
3346.400	V	34.10	-62.93	10.34	1.16	-53.75	-13.00	40.75
GSM 850 Frequency:848.8MHz								
932.16	H	21.24	-46.74	0.00	0.64	-47.38	-13.00	34.38
537.82	V	20.92	-50.72	0.00	0.46	-51.18	-13.00	38.18
1697.600	H	41.25	-63.04	8.74	0.90	-55.20	-13.00	42.20
1697.600	V	40.42	-64.00	8.74	0.90	-56.16	-13.00	43.16
2546.400	H	50.27	-50.06	9.47	1.01	-41.60	-13.00	28.60
2546.400	V	51.05	-49.23	9.47	1.01	-40.77	-13.00	27.77
3395.200	H	34.18	-63.51	10.36	1.19	-54.34	-13.00	41.34
3395.200	V	34.60	-63.06	10.36	1.19	-53.89	-13.00	40.89

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								
244.53	H	19.42	-61.41	0.00	0.30	-61.71	-13.00	48.71
719.31	V	20.88	-48.62	0.00	0.49	-49.11	-13.00	36.11
1652.800	H	36.27	-68.06	8.68	0.81	-60.19	-13.00	47.19
1652.800	V	36.61	-67.80	8.68	0.81	-59.93	-13.00	46.93
2479.200	H	35.03	-65.73	9.39	1.01	-57.35	-13.00	44.35
2479.200	V	35.33	-65.40	9.39	1.01	-57.02	-13.00	44.02
3305.600	H	34.16	-62.57	10.32	1.15	-53.40	-13.00	40.40
3305.600	V	34.71	-61.79	10.32	1.15	-52.62	-13.00	39.62
WCDMA Band 5 Frequency:836.6MHz								
719.30	H	21.34	-51.59	0.00	0.49	-52.08	-13.00	39.08
975.59	V	22.00	-42.65	0.00	0.61	-43.26	-13.00	30.26
1673.200	H	38.66	-65.65	8.71	0.85	-57.79	-13.00	44.79
1673.200	V	39.08	-65.33	8.71	0.85	-57.47	-13.00	44.47
2509.800	H	35.54	-65.07	9.42	1.01	-56.66	-13.00	43.66
2509.800	V	35.66	-64.96	9.42	1.01	-56.55	-13.00	43.55
3346.400	H	35.72	-61.45	10.34	1.16	-52.27	-13.00	39.27
3346.400	V	34.76	-62.27	10.34	1.16	-53.09	-13.00	40.09
WCDMA Band 5 Frequency:846.6MHz								
706.83	H	20.96	-52.22	0.00	0.54	-52.76	-13.00	39.76
524.81	V	20.64	-50.98	0.00	0.42	-51.40	-13.00	38.40
1693.200	H	40.62	-63.68	8.73	0.89	-55.84	-13.00	42.84
1693.200	V	39.82	-64.60	8.73	0.89	-56.76	-13.00	43.76
2539.800	H	36.21	-64.17	9.46	1.01	-55.72	-13.00	42.72
2539.800	V	35.47	-64.87	9.46	1.01	-56.42	-13.00	43.42
3386.400	H	34.46	-63.13	10.35	1.18	-53.96	-13.00	40.96
3386.400	V	35.59	-61.95	10.35	1.18	-52.78	-13.00	39.78

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

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)			
GSM 1900 Frequency:1850.2MHz								
545.00	H	28.65	-77.29	0.00	0.47	-77.76	-13.00	64.76
38.22	V	44.24	-43.84	-25.55	0.11	-69.50	-13.00	56.50
3700.400	H	40.12	-57.20	10.60	1.25	-47.85	-13.00	34.85
3700.400	V	37.25	-60.05	10.60	1.25	-50.70	-13.00	37.70
5550.600	H	46.80	-46.46	11.44	1.49	-36.51	-13.00	23.51
5550.600	V	48.36	-44.74	11.44	1.49	-34.79	-13.00	21.79
GSM 1900 Frequency:1880MHz								
701.94	H	28.33	-76.24	0.00	0.55	-76.79	-13.00	63.79
43.97	V	37.85	-57.11	-21.17	0.12	-78.40	-13.00	65.40
3760.000	H	35.65	-60.76	10.66	1.24	-51.34	-13.00	38.34
3760.000	V	37.50	-58.79	10.66	1.24	-49.37	-13.00	36.37
5640.000	H	46.87	-46.58	11.33	1.54	-36.79	-13.00	23.79
5640.000	V	46.15	-47.18	11.33	1.54	-37.39	-13.00	24.39
GSM 1900 Frequency:1909.8MHz								
216.15	H	28.91	-83.66	0.00	0.27	-83.93	-13.00	70.93
43.81	V	38.39	-56.37	-21.37	0.12	-77.86	-13.00	64.86
3819.600	H	37.34	-58.52	10.72	1.29	-49.09	-13.00	36.09
3819.600	V	38.37	-57.35	10.72	1.29	-47.92	-13.00	34.92
5729.400	H	47.97	-45.51	11.22	1.59	-35.88	-13.00	22.88
5729.400	V	44.63	-48.73	11.22	1.59	-39.10	-13.00	26.10

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								
908.89	H	28.72	-70.31	0.00	0.54	-70.85	-13.00	57.85
44.12	V	37.80	-57.36	-20.96	0.12	-78.44	-13.00	65.44
3704.800	H	35.39	-61.87	10.60	1.25	-52.52	-13.00	39.52
3704.800	V	34.45	-62.78	10.60	1.25	-53.43	-13.00	40.43
5557.200	H	43.21	-50.07	11.43	1.49	-40.13	-13.00	27.13
5557.200	V	41.85	-51.28	11.43	1.49	-41.34	-13.00	28.34
WCDMA Band II, Frequency:1880 MHz								
642.54	H	28.80	-75.92	0.00	0.52	-76.44	-13.00	63.44
45.06	V	39.95	-56.41	-19.74	0.12	-76.27	-13.00	63.27
3760.000	H	34.63	-61.78	10.66	1.24	-52.36	-13.00	39.36
3760.000	V	34.52	-61.77	10.66	1.24	-52.35	-13.00	39.35
5640.000	H	44.33	-49.12	11.33	1.54	-39.33	-13.00	26.33
5640.000	V	42.92	-50.41	11.33	1.54	-40.62	-13.00	27.62
WCDMA Band II, Frequency:1907.6MHz								
804.02	H	26.24	-75.97	0.00	0.56	-76.53	-13.00	63.53
45.22	V	37.83	-58.68	-19.59	0.12	-78.39	-13.00	65.39
3815.200	H	35.47	-60.38	10.72	1.29	-50.95	-13.00	37.95
3815.200	V	35.81	-59.88	10.72	1.29	-50.45	-13.00	37.45
5722.800	H	46.18	-47.31	11.23	1.58	-37.66	-13.00	24.66
5722.800	V	42.25	-51.10	11.23	1.58	-41.45	-13.00	28.45

LTE Bands:
(The Worst modulation and bandwidth was below)

LTE Band 2 (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)			
QPSK,Frequency:1850.7 MHz								
99.88	H	30.98	-81.40	0.00	0.19	-81.59	-13.00	68.59
45.06	V	39.32	-57.04	-19.74	0.12	-76.90	-13.00	63.90
3701.400	H	34.71	-62.60	10.60	1.25	-53.25	-13.00	40.25
3701.400	V	34.35	-62.94	10.60	1.25	-53.59	-13.00	40.59
5552.100	H	52.58	-40.69	11.44	1.49	-30.74	-13.00	17.74
5552.100	V	51.92	-41.18	11.44	1.49	-31.23	-13.00	18.23
QPSK,Frequency:1880 MHz								
89.59	H	30.37	-82.53	0.00	0.18	-82.71	-13.00	69.71
45.22	V	38.50	-58.01	-19.59	0.12	-77.72	-13.00	64.72
3760.000	H	38.54	-57.87	10.66	1.24	-48.45	-13.00	35.45
3760.000	V	36.58	-59.71	10.66	1.24	-50.29	-13.00	37.29
5640.000	H	51.67	-41.78	11.33	1.54	-31.99	-13.00	18.99
5640.000	V	48.28	-45.05	11.33	1.54	-35.26	-13.00	22.26
QPSK,Frequency:1909.3 MHz								
72.36	H	30.14	-75.06	-3.82	0.15	-79.03	-13.00	66.03
44.59	V	33.73	-62.03	-20.35	0.12	-82.50	-13.00	69.50
3818.600	H	41.05	-54.81	10.72	1.29	-45.38	-13.00	32.38
3818.600	V	39.32	-56.39	10.72	1.29	-46.96	-13.00	33.96
5727.900	H	55.81	-37.67	11.23	1.59	-28.03	-13.00	15.03
5727.900	V	52.16	-41.20	11.23	1.59	-31.56	-13.00	18.56

LTE Band 4 (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)			
QPSK,Frequency:1710.7 MHz								
121.53	H	28.37	-83.74	0.00	0.20	-83.94	-13.00	70.94
45.06	V	38.47	-57.89	-19.74	0.12	-77.75	-13.00	64.75
3421.400	H	39.68	-58.08	10.37	1.17	-48.88	-13.00	35.88
3421.400	V	39.48	-58.25	10.37	1.17	-49.05	-13.00	36.05
5132.100	H	47.15	-46.42	11.28	1.47	-36.61	-13.00	23.61
5132.100	V	40.39	-53.07	11.28	1.47	-43.26	-13.00	30.26
QPSK,Frequency:1732.5 MHz								
55.22	H	34.12	-68.32	-12.50	0.13	-80.95	-13.00	67.95
45.06	V	37.52	-58.84	-19.74	0.12	-78.70	-13.00	65.70
3465.000	H	37.75	-60.06	10.39	1.15	-50.82	-13.00	37.82
3465.000	V	37.72	-60.05	10.39	1.15	-50.81	-13.00	37.81
5197.500	H	47.48	-46.65	11.32	1.44	-36.77	-13.00	23.77
5197.500	V	40.33	-53.65	11.32	1.44	-43.77	-13.00	30.77
QPSK,Frequency:1754.3MHz								
108.41	H	34.70	-77.55	0.00	0.19	-77.74	-13.00	64.74
45.22	V	39.19	-57.32	-19.59	0.12	-77.03	-13.00	64.03
3505.200	H	34.52	-63.31	10.41	1.18	-54.08	-13.00	41.08
3505.200	V	34.15	-63.62	10.41	1.18	-54.39	-13.00	41.39
5257.800	H	47.00	-46.73	11.35	1.47	-36.85	-13.00	23.85
5257.800	V	43.22	-50.29	11.35	1.47	-40.41	-13.00	27.41

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								
200.99	H	20.33	-61.02	0.00	0.26	-61.28	-13.00	48.28
369.70	V	20.06	-56.10	0.00	0.37	-56.47	-13.00	43.47
1649.400	H	36.23	-68.10	8.68	0.80	-60.22	-13.00	47.22
1649.400	V	36.77	-67.64	8.68	0.80	-59.76	-13.00	46.76
2474.100	H	43.98	-56.80	9.38	1.00	-48.42	-13.00	35.42
2474.100	V	41.86	-58.87	9.38	1.00	-50.49	-13.00	37.49
3298.800	H	35.17	-61.51	10.32	1.15	-52.34	-13.00	39.34
3298.800	V	34.88	-61.56	10.32	1.15	-52.39	-13.00	39.39
QPSK, Frequency: 836.5 MHz								
724.37	H	21.65	-51.18	0.00	0.51	-51.69	-13.00	38.69
236.94	V	21.11	-58.30	0.00	0.29	-58.59	-13.00	45.59
1673.000	H	41.22	-63.09	8.71	0.85	-55.23	-13.00	42.23
1673.000	V	40.57	-63.84	8.71	0.85	-55.98	-13.00	42.98
2509.500	H	42.98	-57.63	9.42	1.01	-49.22	-13.00	36.22
2509.500	V	45.16	-55.46	9.42	1.01	-47.05	-13.00	34.05
3346.000	H	34.78	-62.38	10.34	1.16	-53.20	-13.00	40.20
3346.000	V	35.46	-61.56	10.34	1.16	-52.38	-13.00	39.38
QPSK, Frequency: 848.3 MHz								
692.13	H	22.14	-51.22	0.00	0.54	-51.76	-13.00	38.76
574.85	V	20.49	-51.20	0.00	0.46	-51.66	-13.00	38.66
1696.600	H	44.24	-60.05	8.74	0.89	-52.20	-13.00	39.20
1696.600	V	43.25	-61.17	8.74	0.89	-53.32	-13.00	40.32
2544.900	H	43.39	-56.95	9.47	1.01	-48.49	-13.00	35.49
2544.900	V	42.96	-57.34	9.47	1.01	-48.88	-13.00	35.88
3393.200	H	34.71	-62.96	10.36	1.19	-53.79	-13.00	40.79
3393.200	V	35.47	-62.16	10.36	1.19	-52.99	-13.00	39.99

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								
89.09	H	28.44	-84.30	0.00	0.18	-84.48	-25.00	59.48
44.28	V	34.86	-60.50	-20.76	0.12	-81.38	-25.00	56.38
5005.000	H	34.47	-58.49	11.20	1.47	-48.76	-25.00	23.76
5005.000	V	34.59	-58.23	11.20	1.47	-48.50	-25.00	23.50
7507.500	H	42.18	-47.61	10.90	1.95	-38.66	-25.00	13.66
7507.500	V	38.86	-51.43	10.90	1.95	-42.48	-25.00	17.48
QPSK, Frequency:2535 MHz								
90.04	H	31.14	-81.89	0.00	0.18	-82.07	-25.00	57.07
44.53	V	37.09	-58.60	-20.42	0.12	-79.14	-25.00	54.14
5070.000	H	38.66	-54.53	11.24	1.47	-44.76	-25.00	19.76
5070.000	V	42.84	-50.25	11.24	1.47	-40.48	-25.00	15.48
7605.000	H	43.54	-45.93	10.88	2.01	-37.06	-25.00	12.06
7605.000	V	38.42	-51.77	10.88	2.01	-42.90	-25.00	17.90
QPSK, Frequency: 2567.5 MHz								
54.37	H	30.57	-71.61	-12.89	0.13	-84.63	-25.00	59.63
44.59	V	35.49	-60.27	-20.35	0.12	-80.74	-25.00	55.74
5135.000	H	40.50	-53.10	11.28	1.47	-43.29	-25.00	18.29
5135.000	V	48.93	-44.56	11.28	1.47	-34.75	-25.00	9.75
7702.500	H	41.90	-47.62	10.86	1.97	-38.73	-25.00	13.73
7702.500	V	39.36	-50.82	10.86	1.97	-41.93	-25.00	16.93

LTE Band 66 (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)			
QPSK, Frequency: 1710.7MHz								
90.35	H	29.84	-83.17	0.00	0.18	-83.35	-13.00	70.35
68.15	V	35.48	-67.76	-5.98	0.15	-73.89	-13.00	60.89
3421.400	H	41.34	-56.42	10.37	1.17	-47.22	-13.00	34.22
3421.400	V	41.58	-56.15	10.37	1.17	-46.95	-13.00	33.95
5132.100	H	47.03	-46.54	11.28	1.47	-36.73	-13.00	23.73
5132.100	V	42.74	-50.72	11.28	1.47	-40.91	-13.00	27.91
QPSK, Frequency:1745 MHz								
71.08	H	32.68	-71.75	-4.46	0.15	-76.36	-13.00	63.36
44.59	V	38.20	-57.56	-20.35	0.12	-78.03	-13.00	65.03
3490.000	H	35.08	-62.76	10.40	1.17	-53.53	-13.00	40.53
3490.000	V	34.91	-62.87	10.40	1.17	-53.64	-13.00	40.64
5235.000	H	47.64	-46.26	11.34	1.46	-36.38	-13.00	23.38
5235.000	V	44.82	-48.89	11.34	1.46	-39.01	-13.00	26.01
QPSK, Frequency: 1779.3 MHz								
70.83	H	33.07	-71.21	-4.58	0.15	-75.94	-13.00	62.94
44.43	V	39.70	-55.86	-20.55	0.12	-76.53	-13.00	63.53
3558.600	H	36.67	-61.00	10.46	1.22	-51.76	-13.00	38.76
3558.600	V	34.84	-62.73	10.46	1.22	-53.49	-13.00	40.49
5337.900	H	49.10	-44.37	11.40	1.47	-34.44	-13.00	21.44
5337.900	V	43.93	-49.40	11.40	1.47	-39.47	-13.00	26.47

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

Please refer to the attachment CR230738751-EXP EUT EXTERNAL PHOTOGRAPHS and
CR230738751-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230738751-00G-TSP TEST SETUP PHOTOGRAPHS.

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