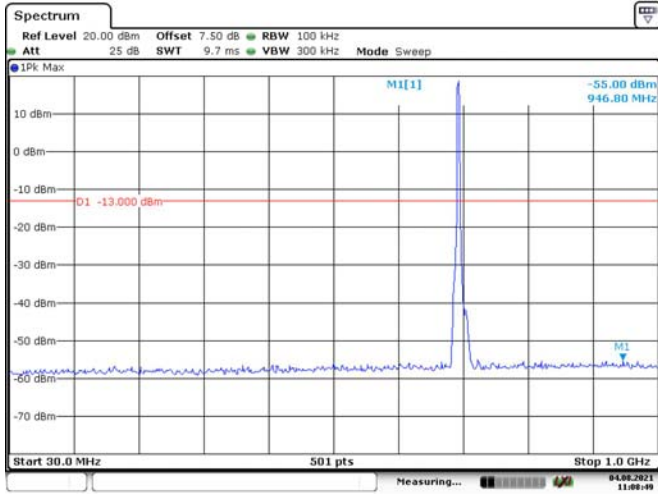
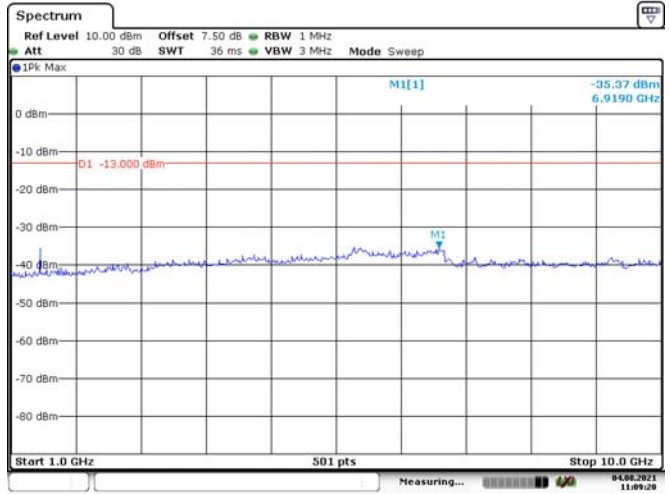


3M, QPSK, Low Channel

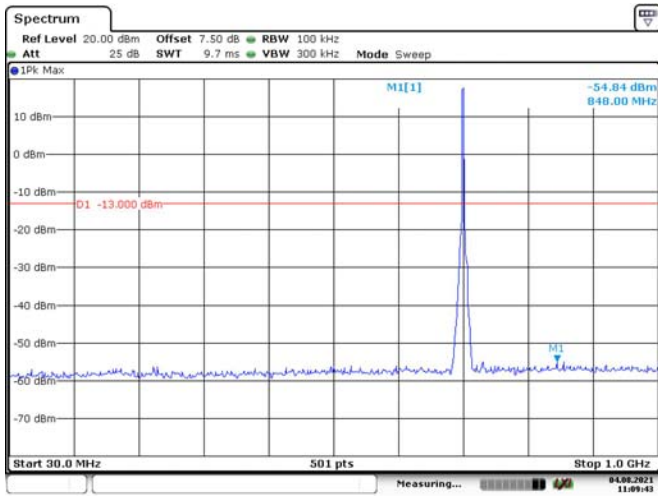


Date: 4.AUG.2021 11:08:49

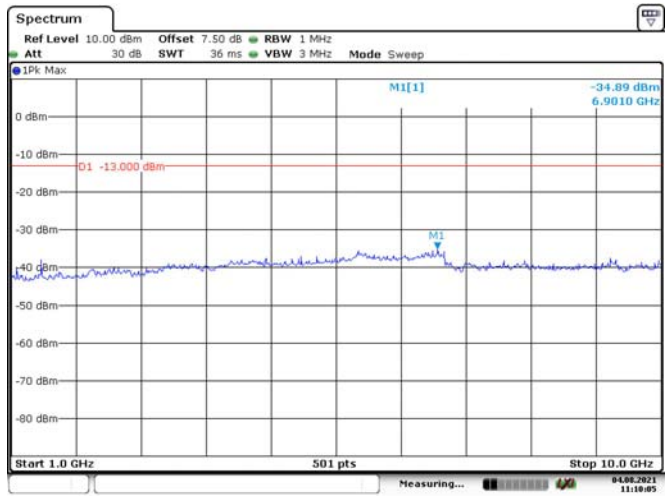


Date: 4.AUG.2021 11:09:21

3M, QPSK, Middle Channel

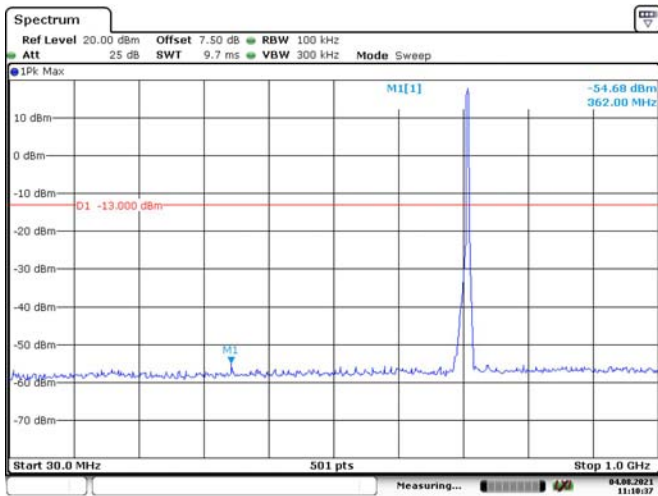


Date: 4.AUG.2021 11:09:44

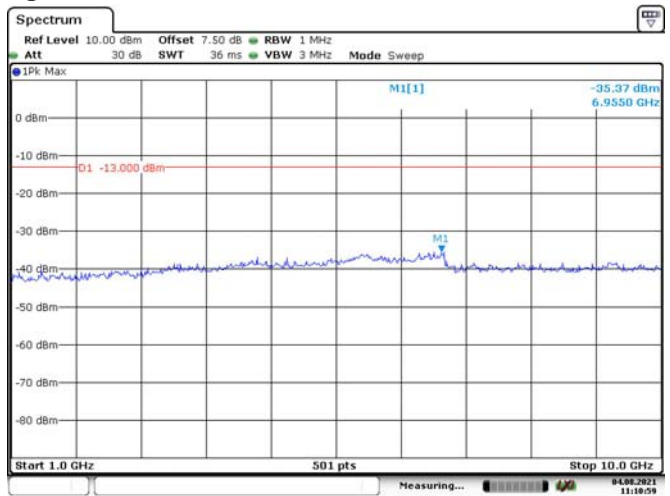


Date: 4.AUG.2021 11:10:06

3M, QPSK, High Channel

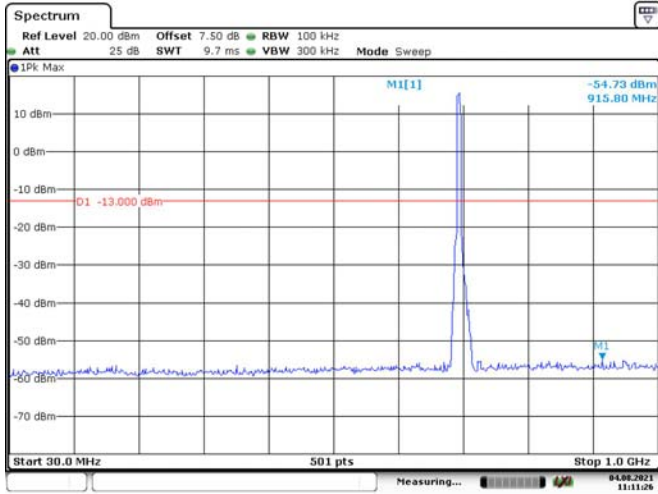


Date: 4.AUG.2021 11:10:38

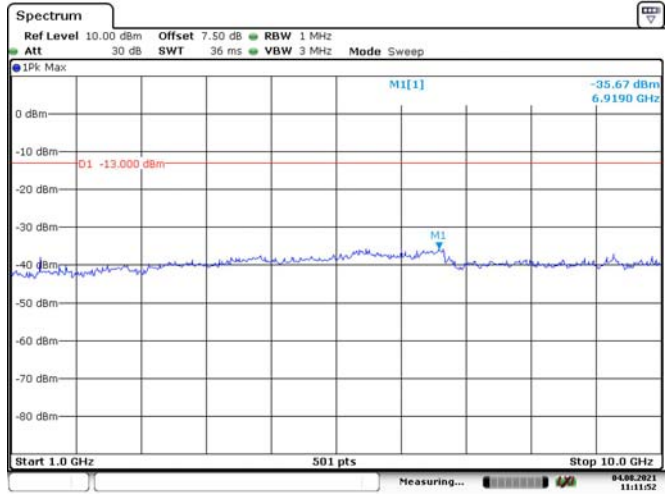


Date: 4.AUG.2021 11:11:00

5M, QPSK, Low Channel

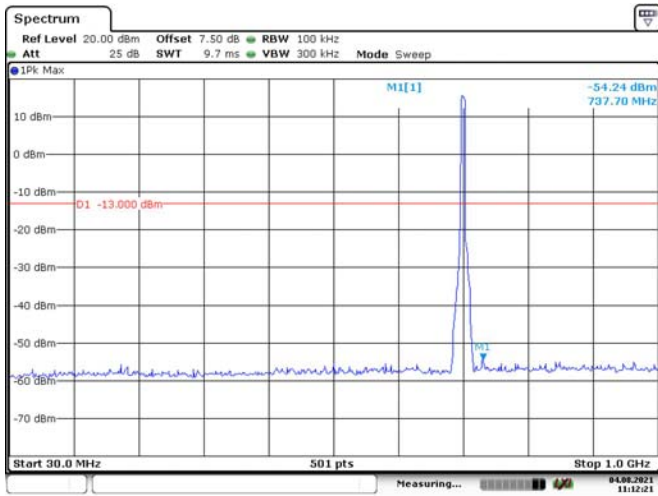


Date: 4.AUG.2021 11:11:27

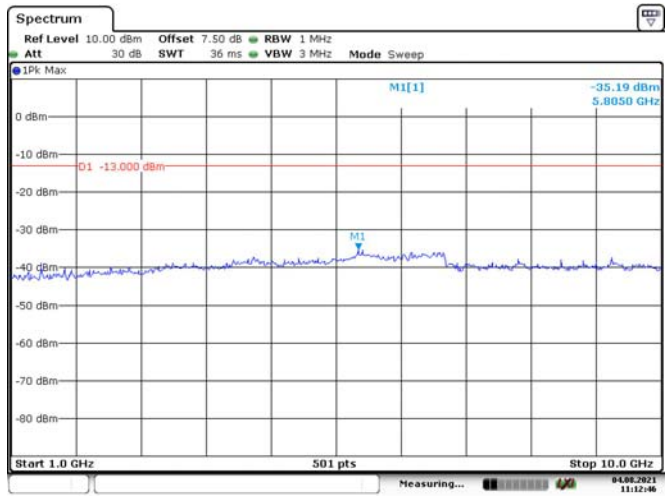


Date: 4.AUG.2021 11:11:52

5M, QPSK, Middle Channel

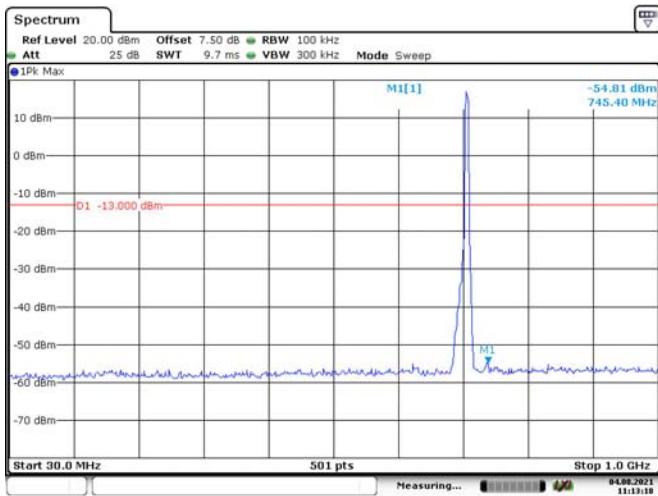


Date: 4.AUG.2021 11:12:21

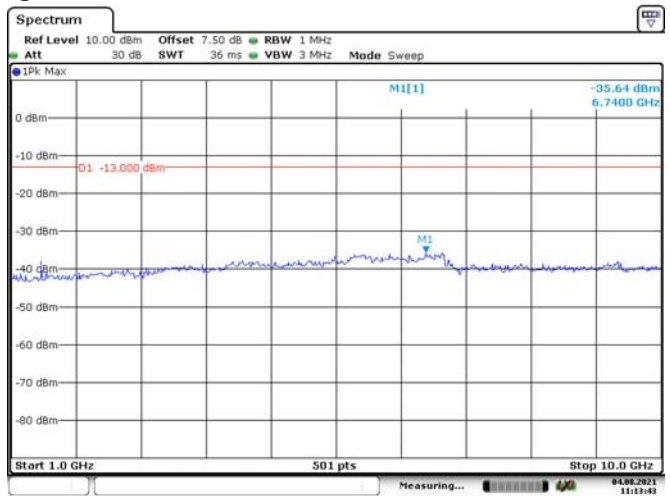


Date: 4.AUG.2021 11:12:46

5M, QPSK, High Channel

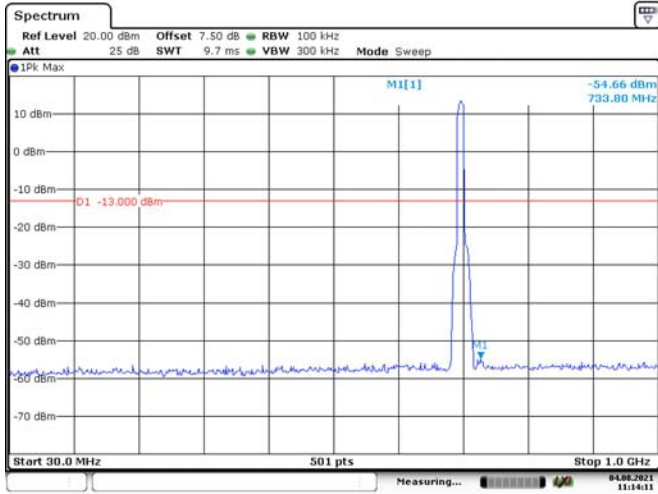


Date: 4.AUG.2021 11:13:19

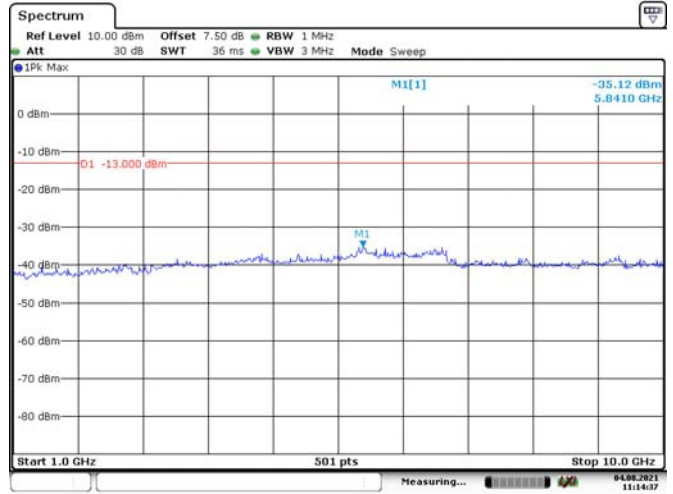


Date: 4.AUG.2021 11:13:44

10M, QPSK, Low Channel

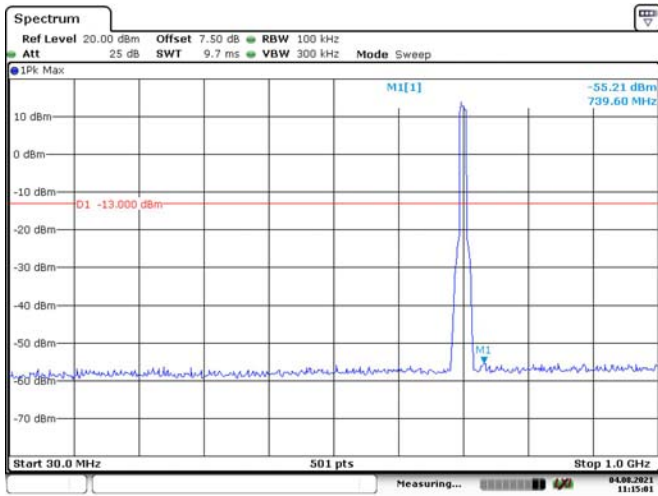


Date: 4.AUG.2021 11:14:12

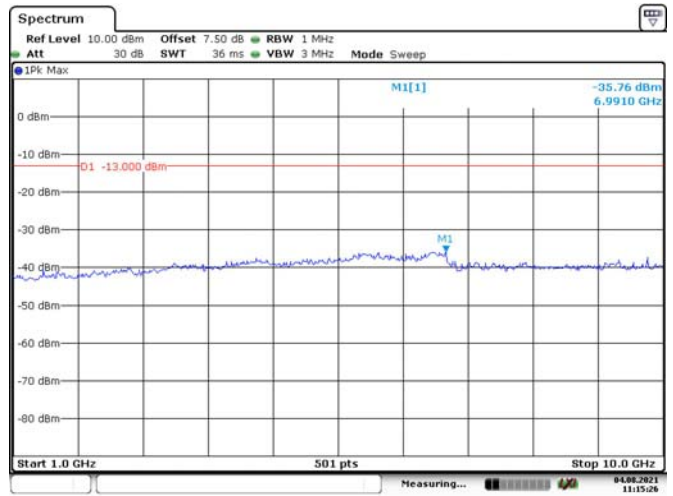


Date: 4.AUG.2021 11:14:37

10M, QPSK, Middle Channel

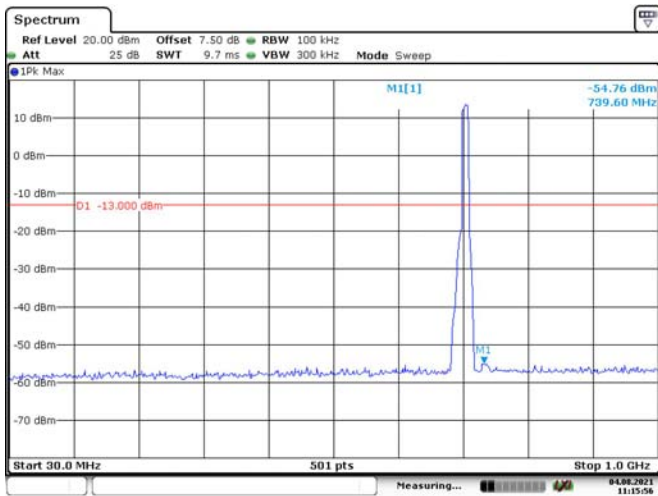


Date: 4.AUG.2021 11:15:02

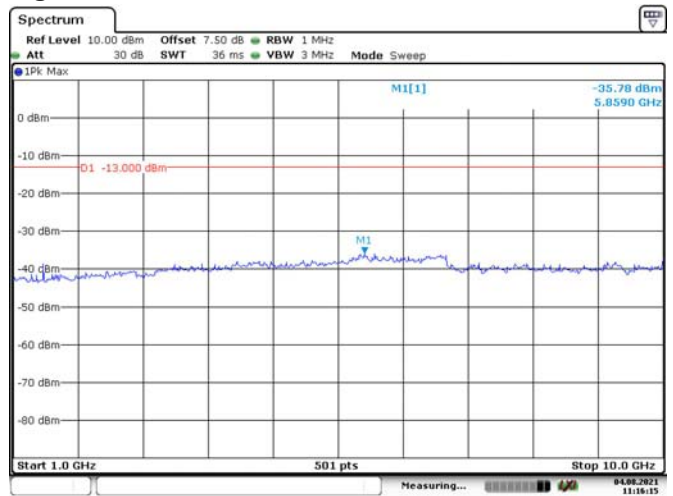


Date: 4.AUG.2021 11:15:27

10M, QPSK, High Channel



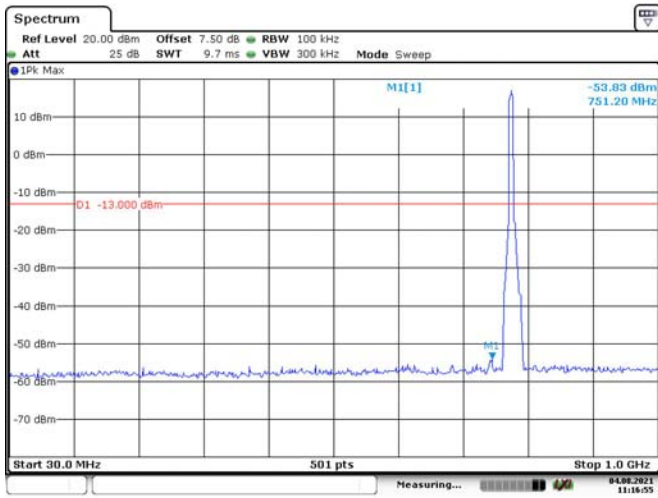
Date: 4.AUG.2021 11:15:57



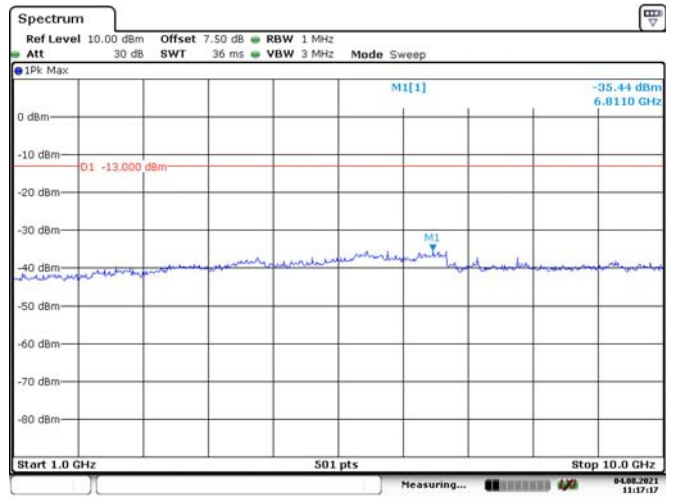
Date: 4.AUG.2021 11:16:16

LTE Band 13:

5M, QPSK, Low Channel

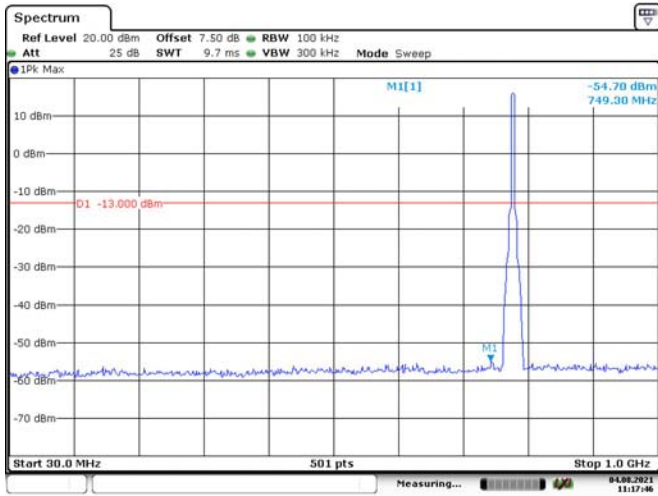


Date: 4.AUG.2021 11:16:56

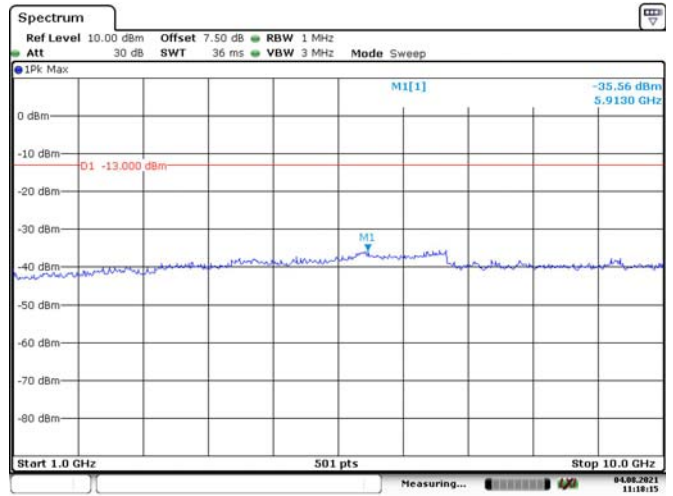


Date: 4.AUG.2021 11:17:18

5M, QPSK, Middle Channel

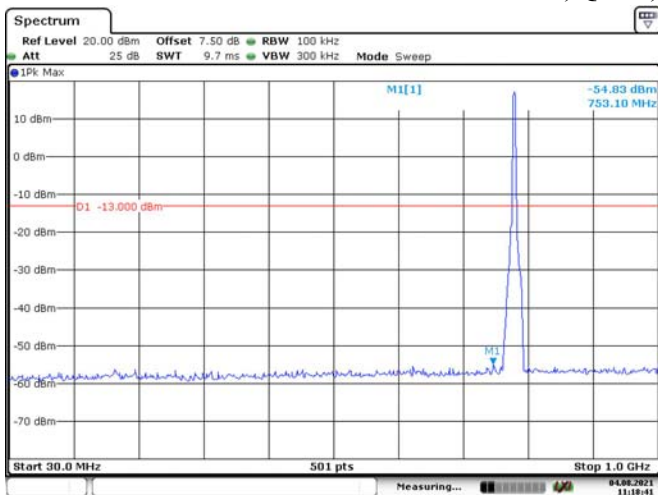


Date: 4.AUG.2021 11:17:47

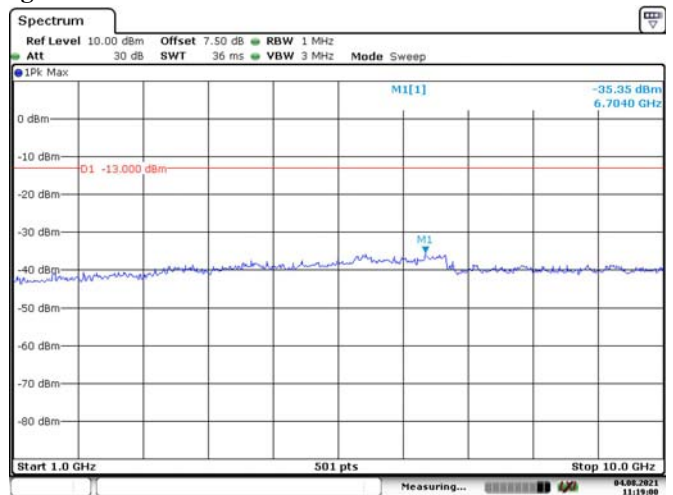


Date: 4.AUG.2021 11:18:15

5M, QPSK, High Channel

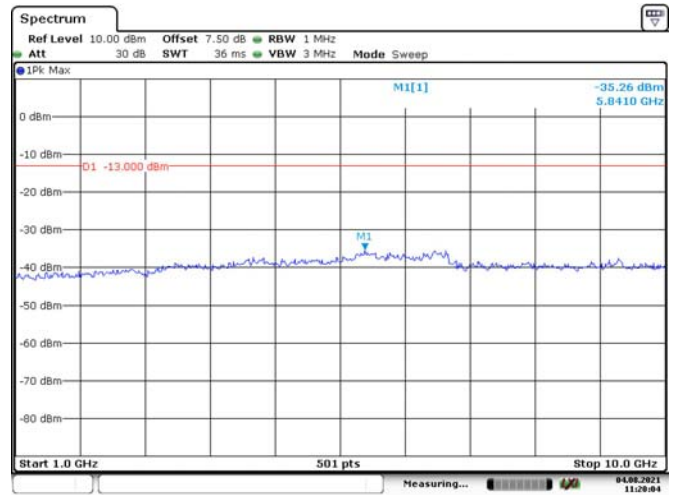
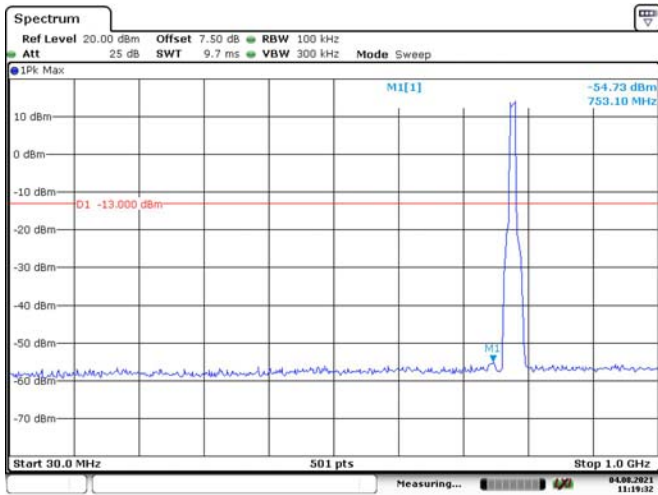


Date: 4.AUG.2021 11:18:41



Date: 4.AUG.2021 11:19:00

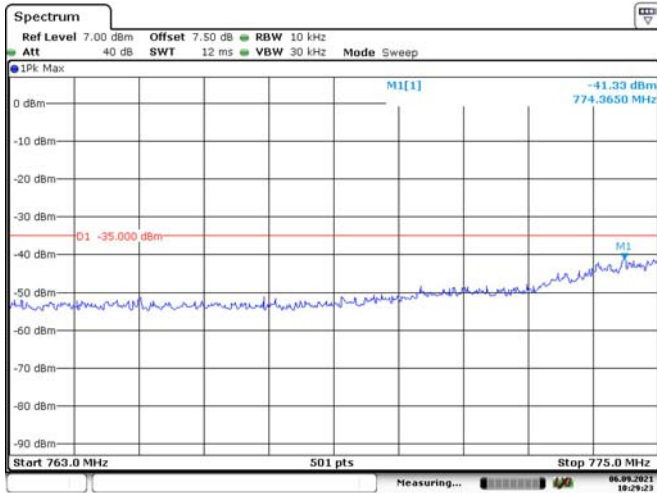
10M, QPSK, Middle Channel



Date: 4.AUG.2021 11:19:33

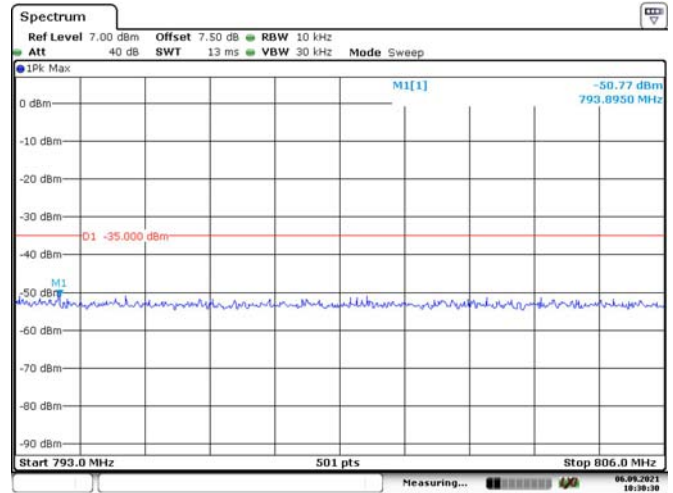
Date: 4.AUG.2021 11:20:04

5 MHz_Low_QPSK(763MHz-775M)



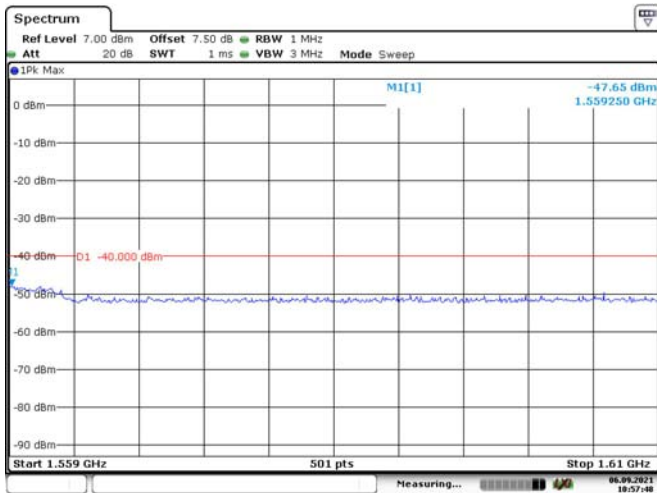
Date: 6.SEP.2021 10:29:24

5 MHz_Low_QPSK(793MHz-806M)



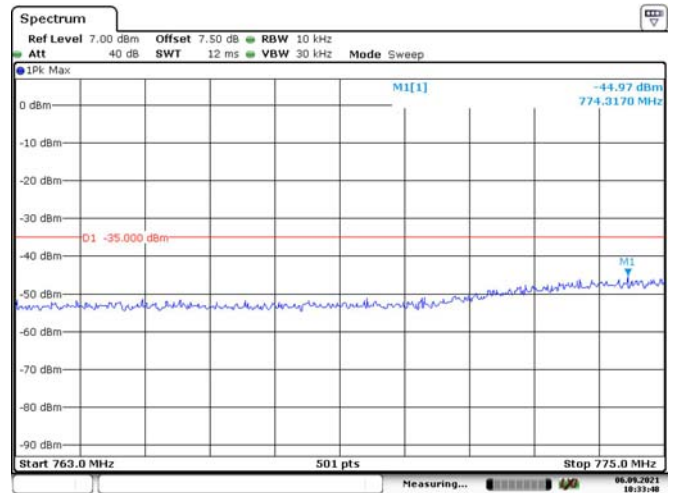
Date: 6.SEP.2021 10:30:30

5 MHz_Low_QPSK(1.559G-1.610G)



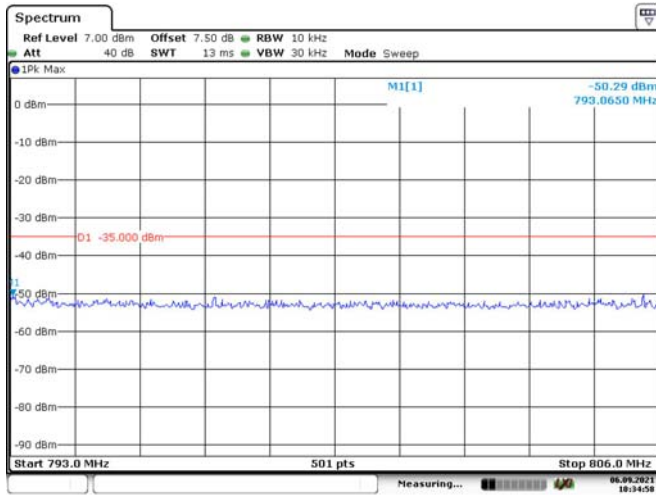
Date: 6.SEP.2021 10:57:49

5 MHz_Middle_QPSK(763MHz-775M)

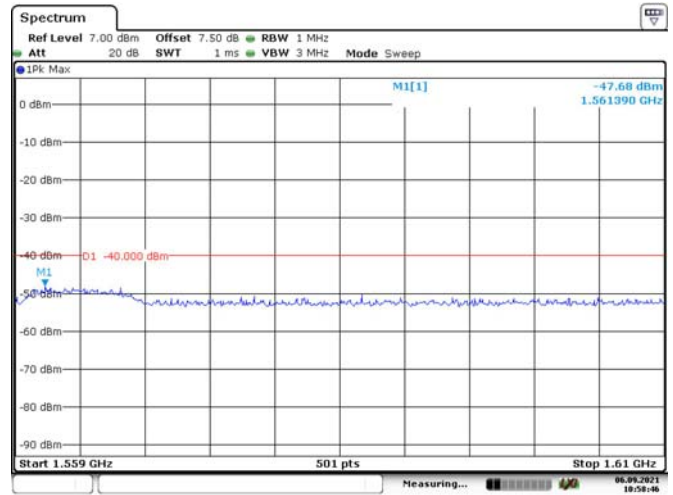


Date: 6.SEP.2021 10:33:49

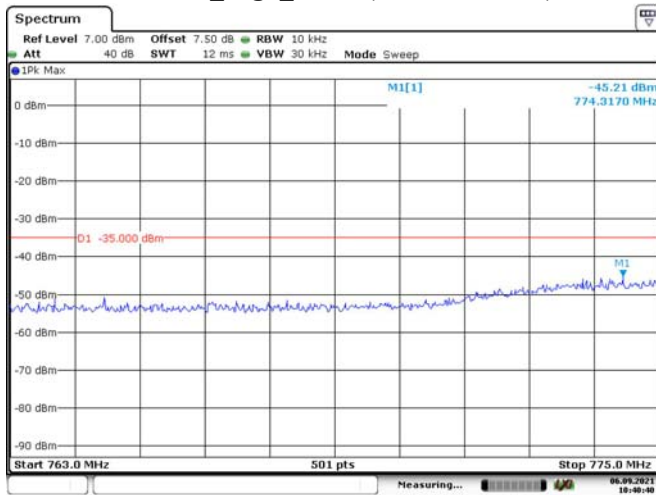
5 MHz_Middle_QPSK(793MHz-806M)



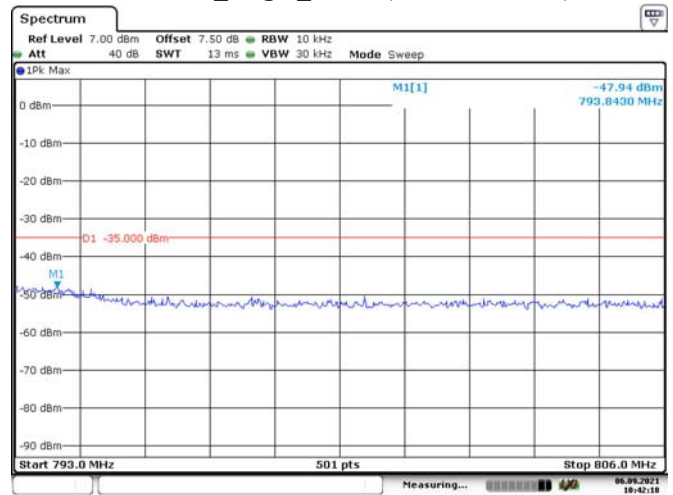
5 MHz_Middle_QPSK(1.559G-1.610G)



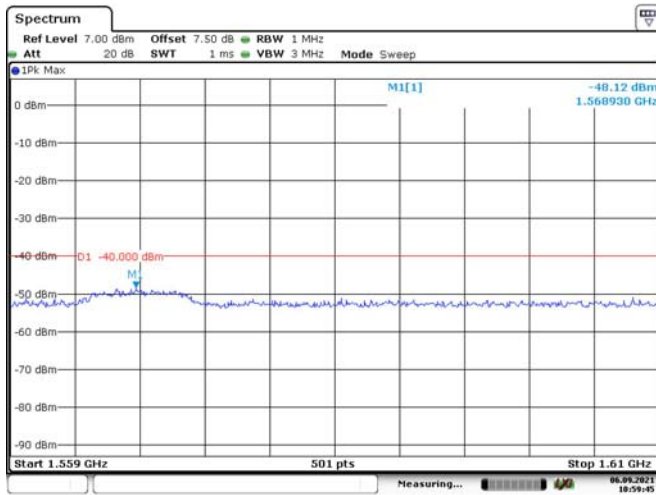
5 MHz_High_QPSK(763MHz-775M)



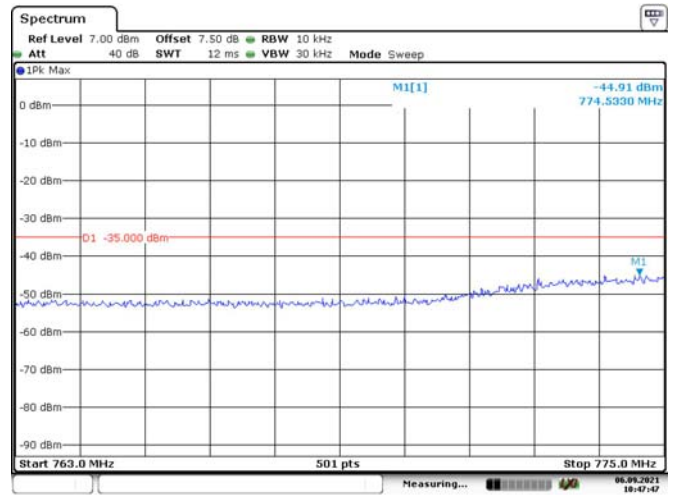
5 MHz_High_QPSK(793MHz-806M)



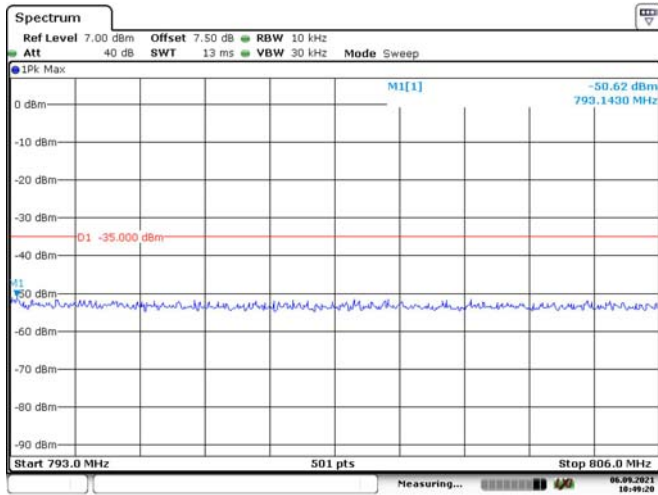
5 MHz_High_QPSK(1.559G-1.610G)



10 MHz_Middle_QPSK(763MHz-775M)

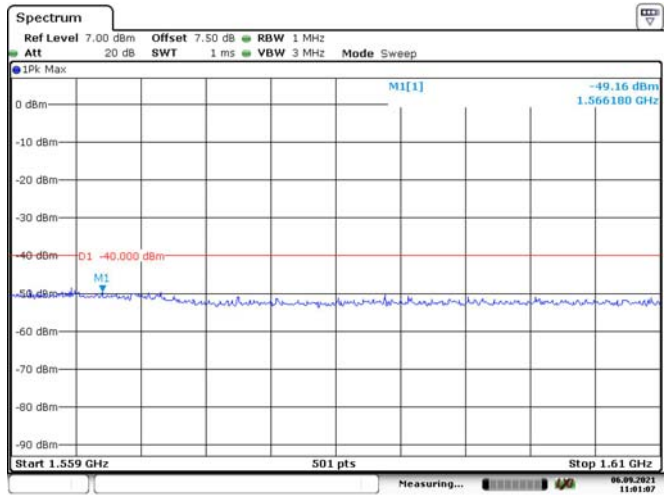


10 MHz_Middle_QPSK(793MHz-806M)



Date: 6.SEP.2021 10:49:21

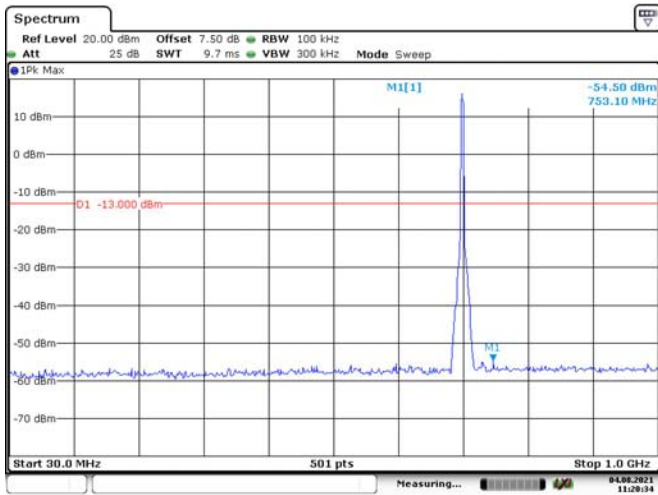
10 MHz_Middle_QPSK(1.559G-1.610G)



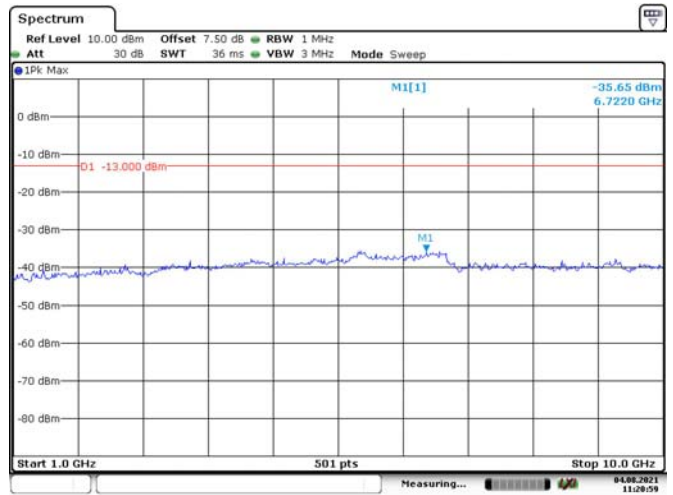
Date: 6.SEP.2021 11:01:08

LTE Band 17:

5M, QPSK, Low Channel

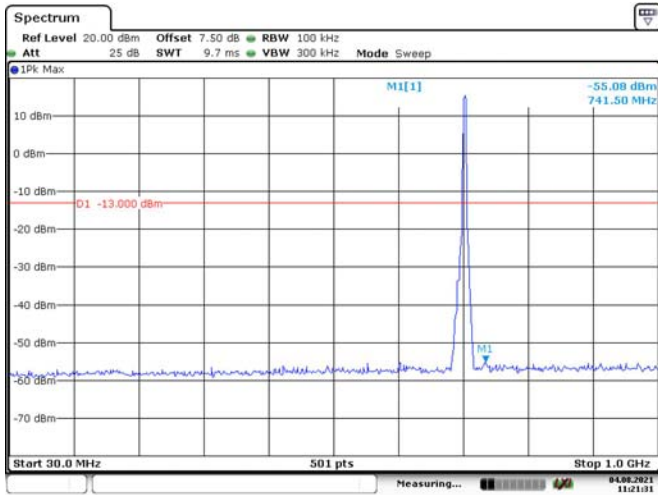


Date: 4.AUG.2021 11:20:14

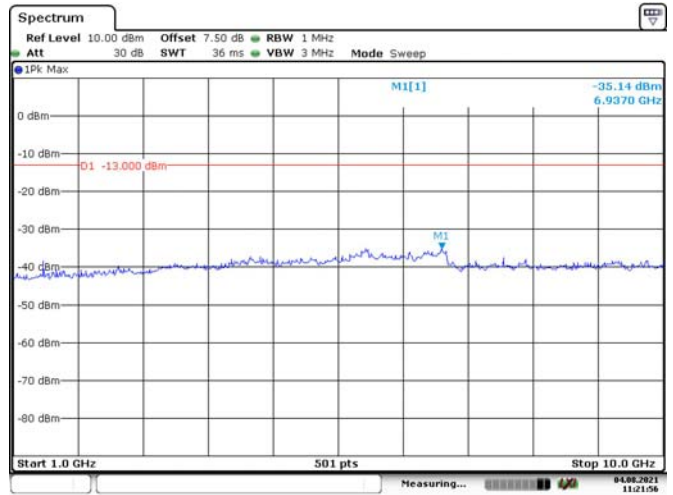


Date: 4.AUG.2021 11:21:00

5M, QPSK, Middle Channel

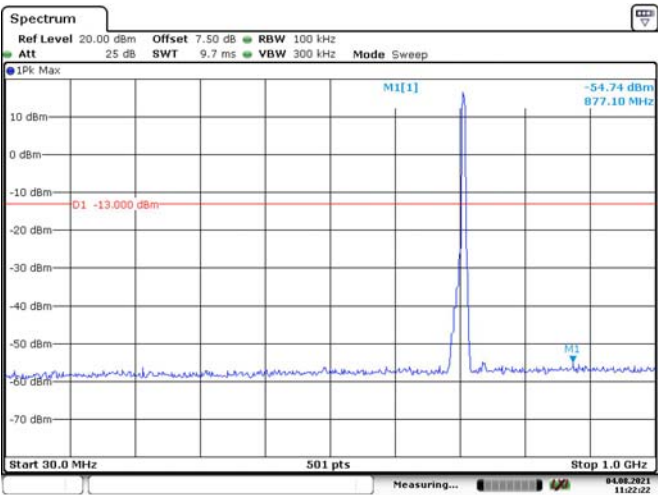


Date: 4.AUG.2021 11:21:32

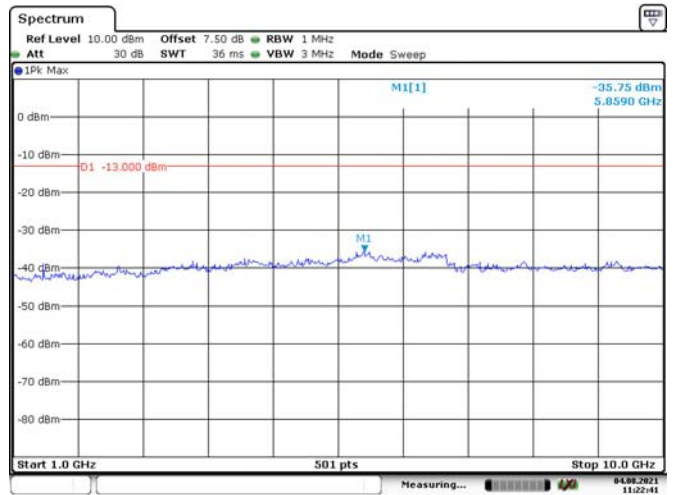


Date: 4.AUG.2021 11:21:57

5M, QPSK, High Channel

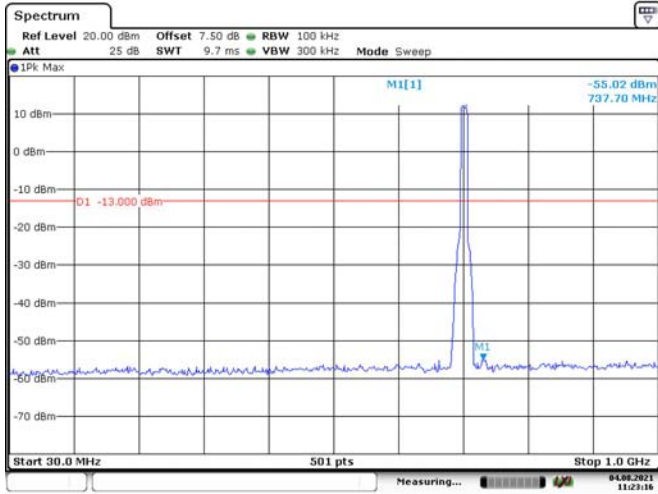


Date: 4.AUG.2021 11:22:23

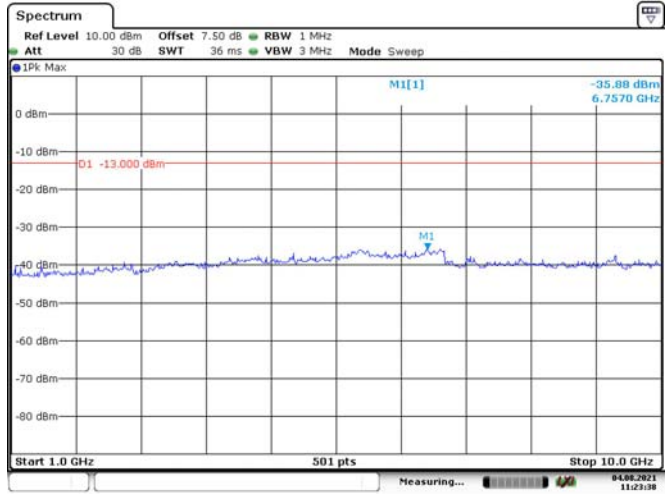


Date: 4.AUG.2021 11:22:42

10M, QPSK, Low Channel

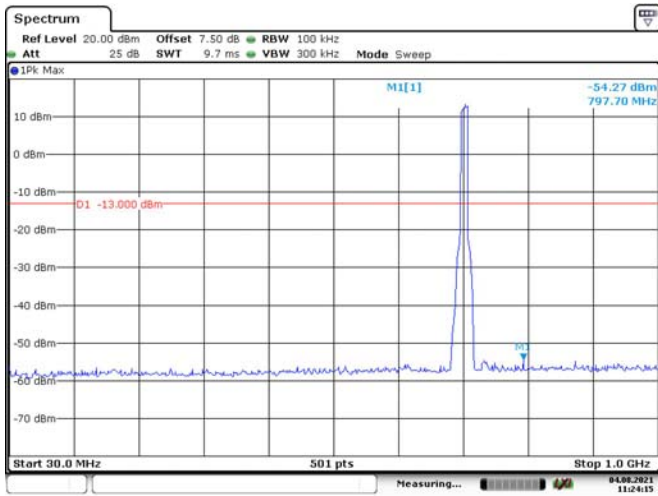


Date: 4.AUG.2021 11:23:17

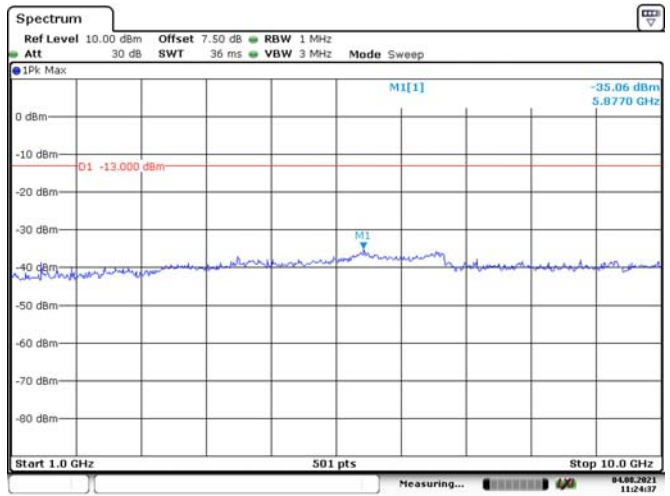


Date: 4.AUG.2021 11:23:39

10M, QPSK, Middle Channel

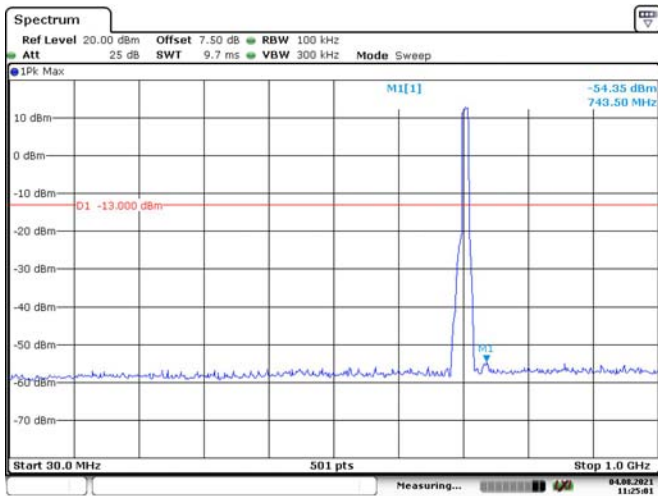


Date: 4.AUG.2021 11:24:16

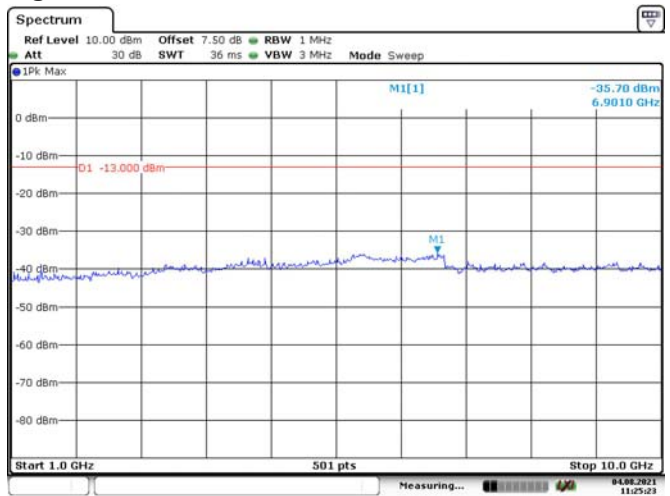


Date: 4.AUG.2021 11:24:38

10M, QPSK, High Channel



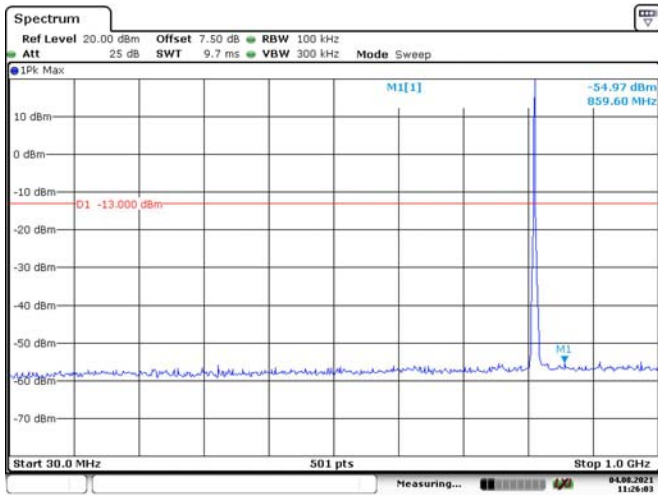
Date: 4.AUG.2021 11:25:02



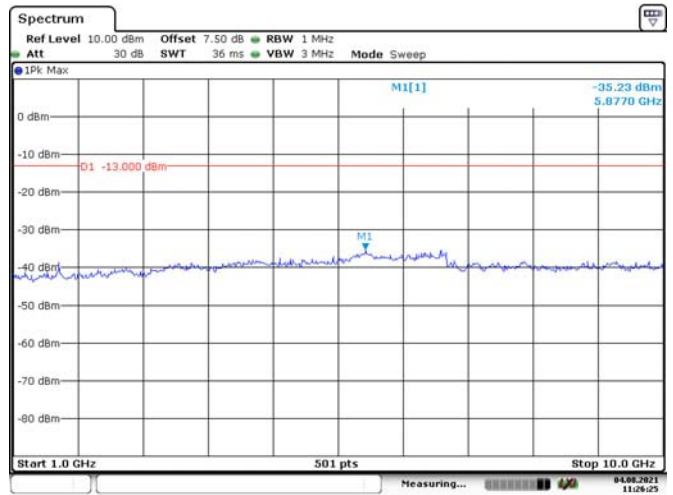
Date: 4.AUG.2021 11:25:24

LTE Band 26:

1.4M, QPSK, Low Channel

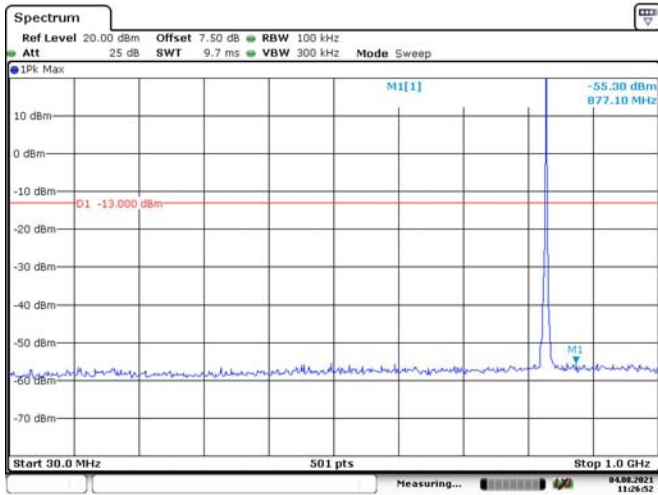


Date: 4.AUG.2021 11:26:04

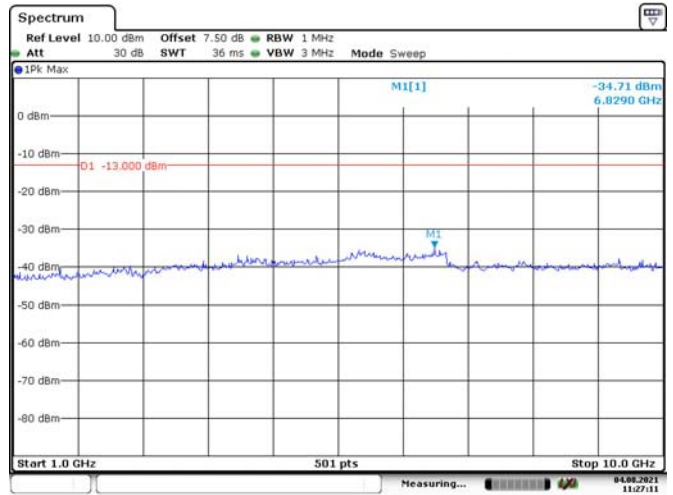


Date: 4.AUG.2021 11:26:26

1.4M, QPSK, Middle Channel

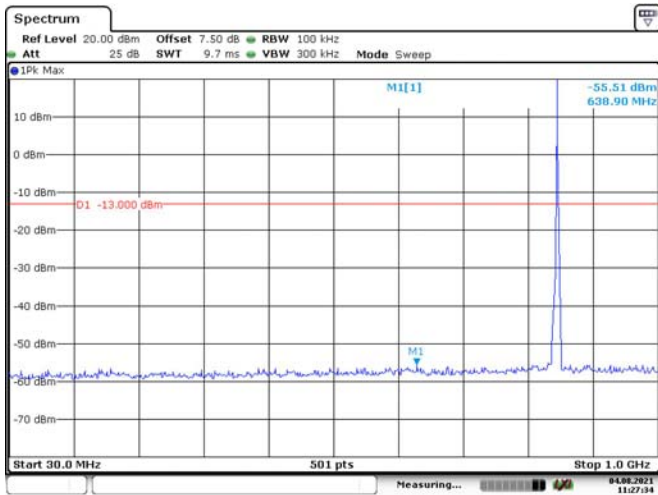


Date: 4.AUG.2021 11:26:52

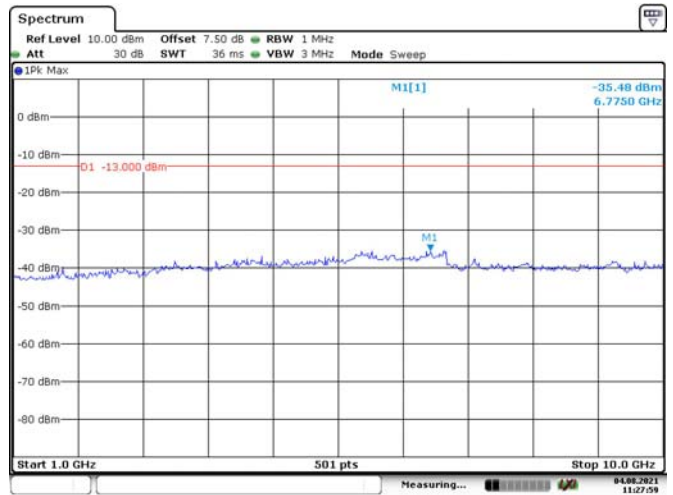


Date: 4.AUG.2021 11:27:11

1.4M, QPSK, High Channel

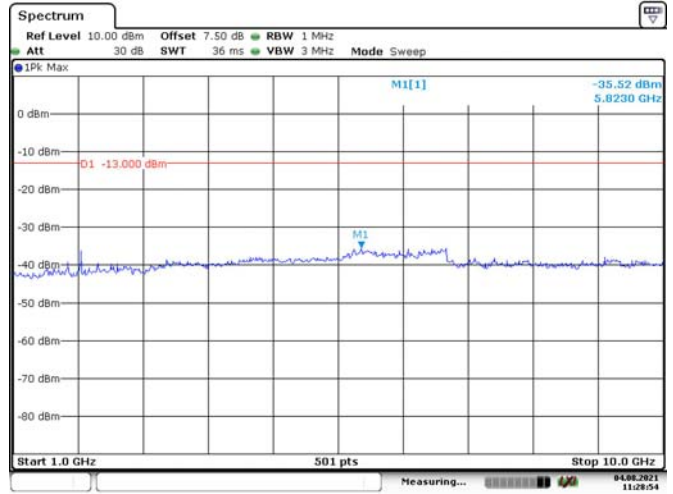
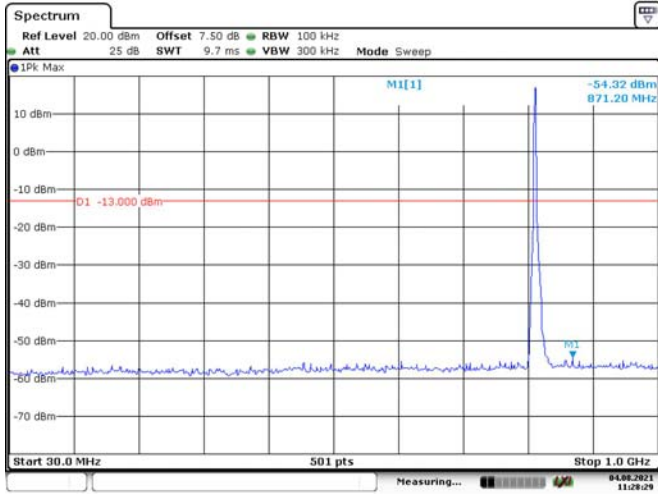


Date: 4.AUG.2021 11:27:34

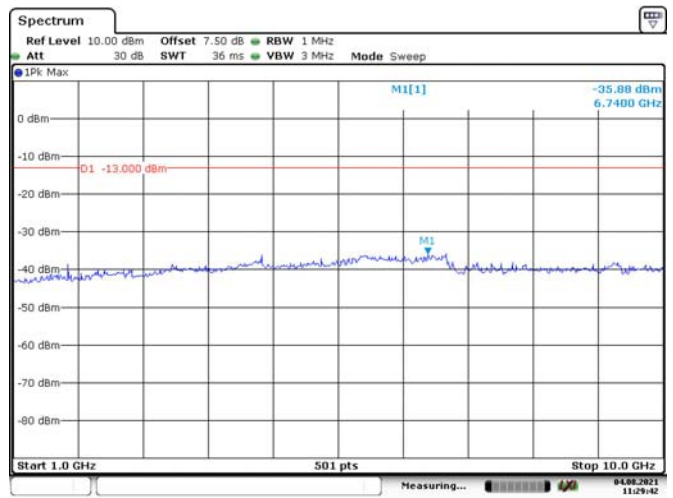
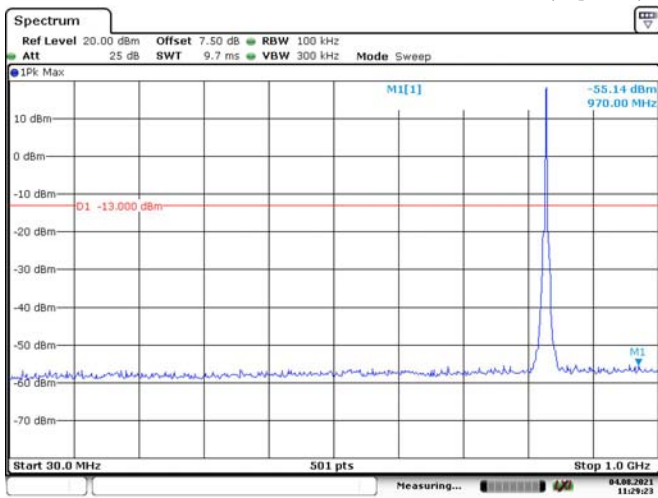


Date: 4.AUG.2021 11:27:59

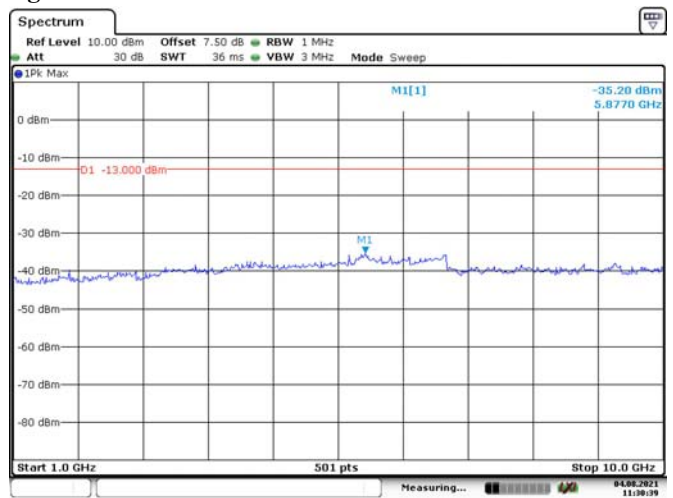
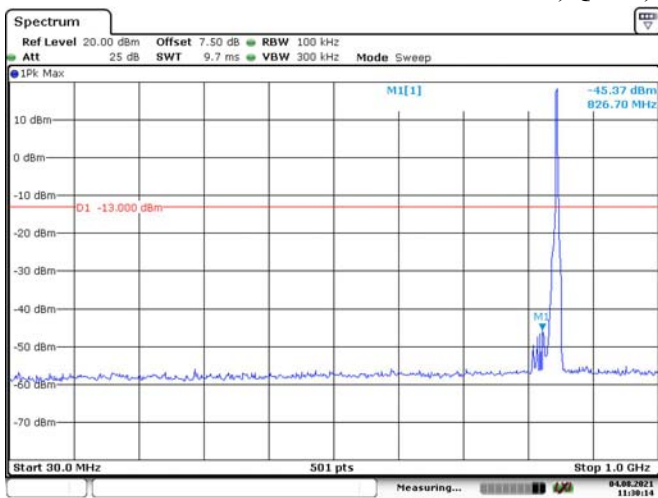
3M, QPSK, Low Channel



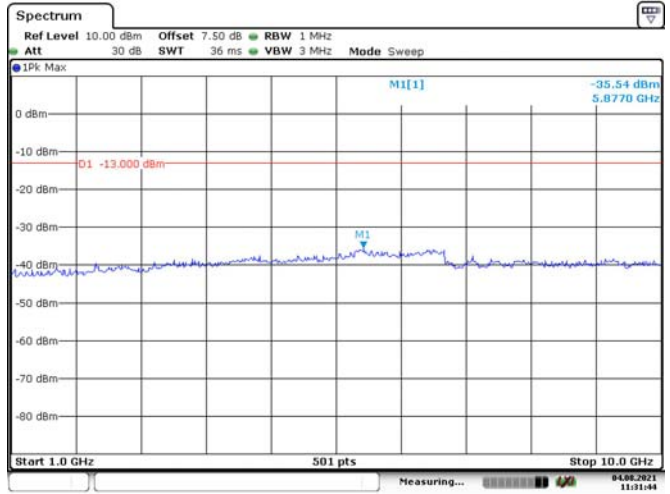
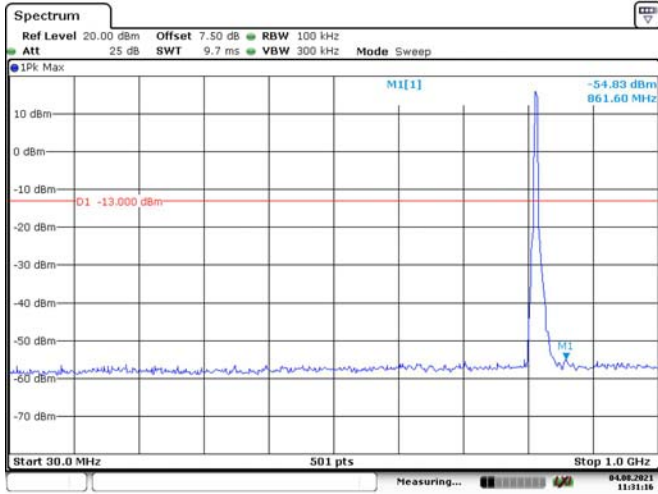
3M, QPSK, Middle Channel



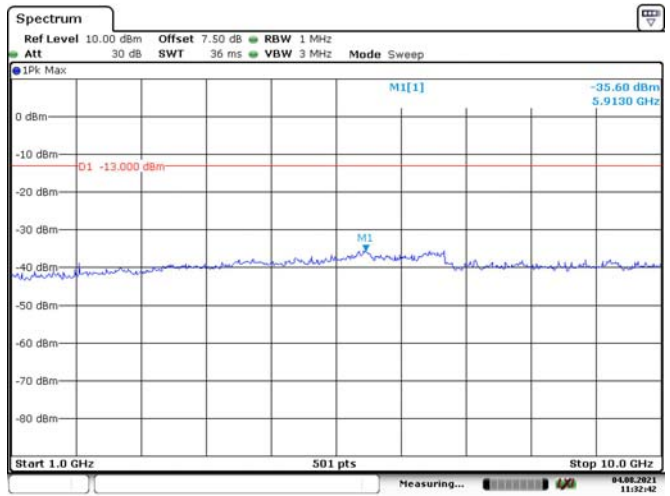
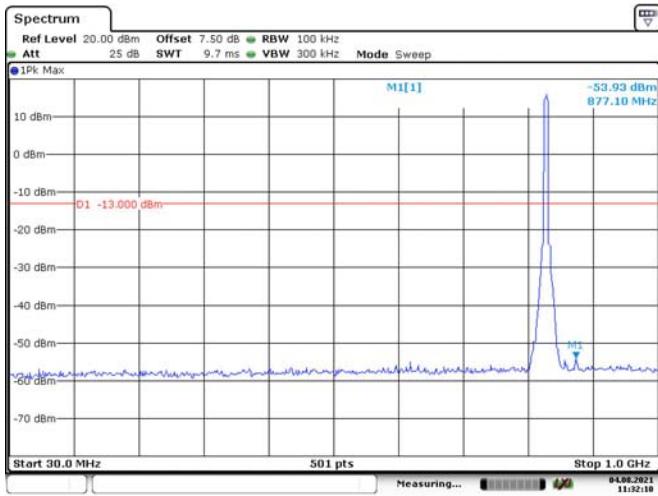
3M, QPSK, High Channel



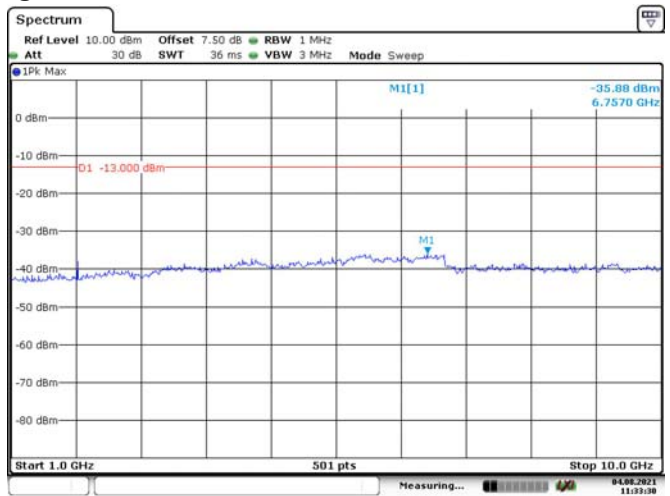
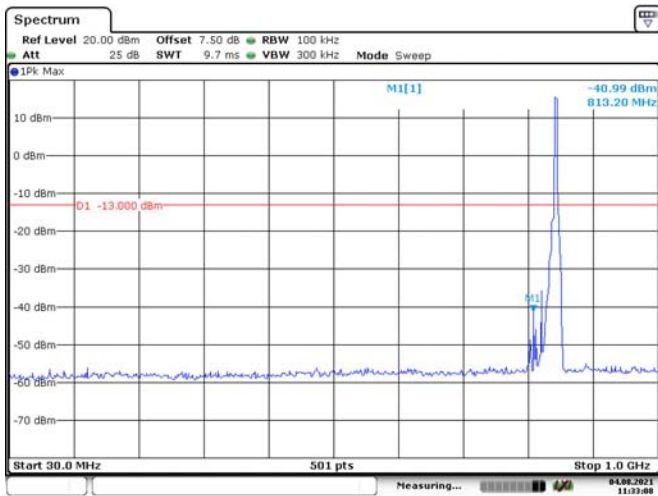
5M, QPSK, Low Channel



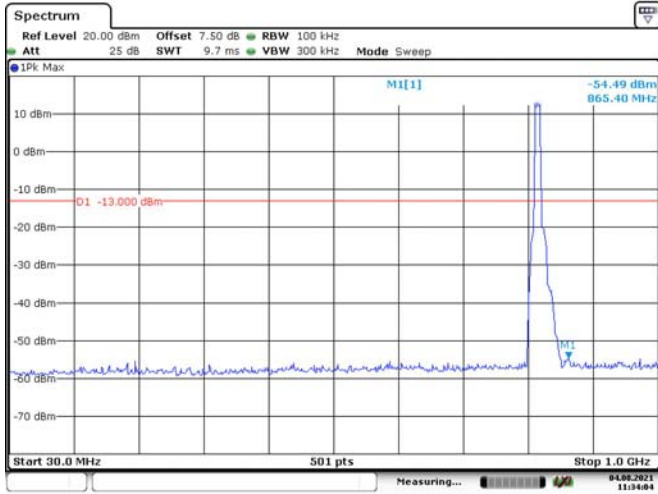
5M, QPSK, Middle Channel



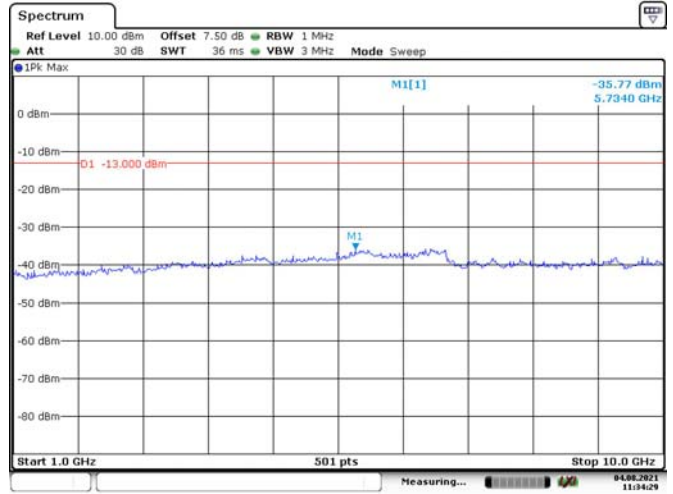
5M, QPSK, High Channel



10M, QPSK, Low Channel

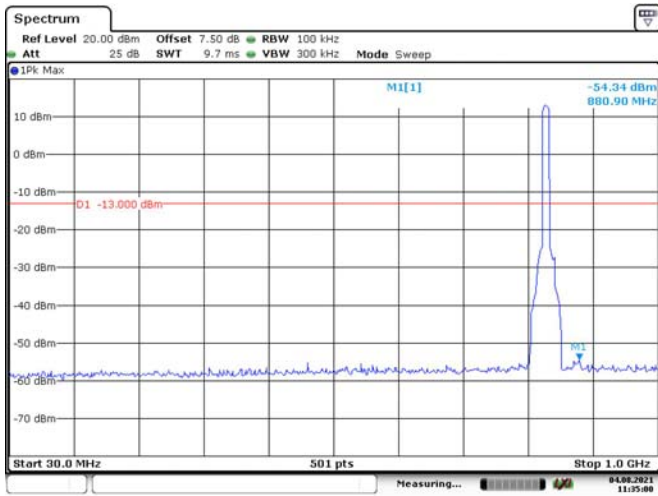


Date: 4.AUG.2021 11:34:05

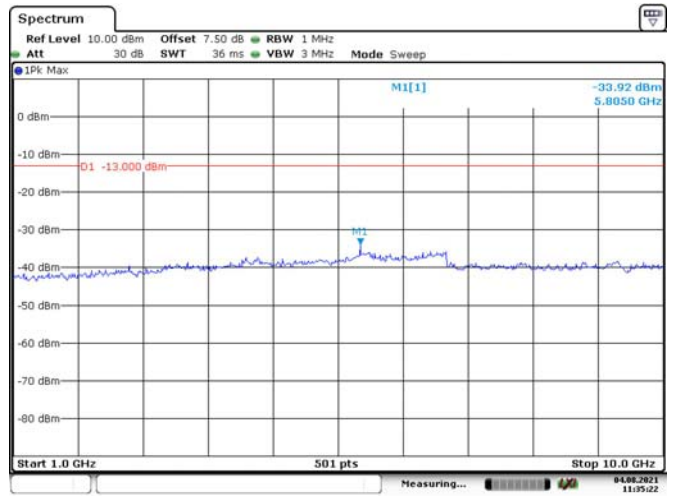


Date: 4.AUG.2021 11:34:30

10M, QPSK, Middle Channel

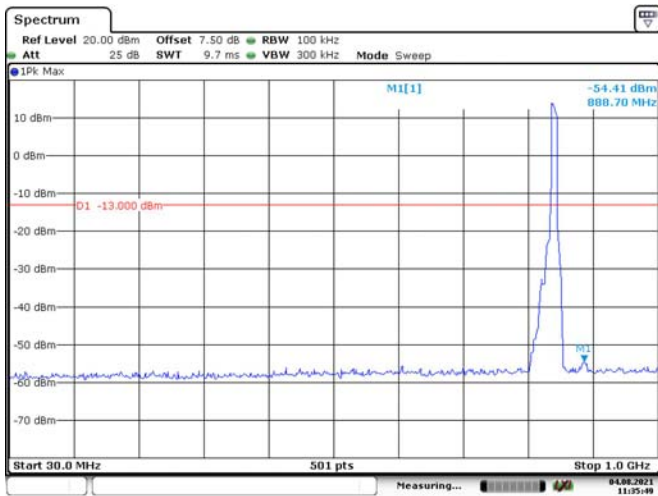


Date: 4.AUG.2021 11:35:00

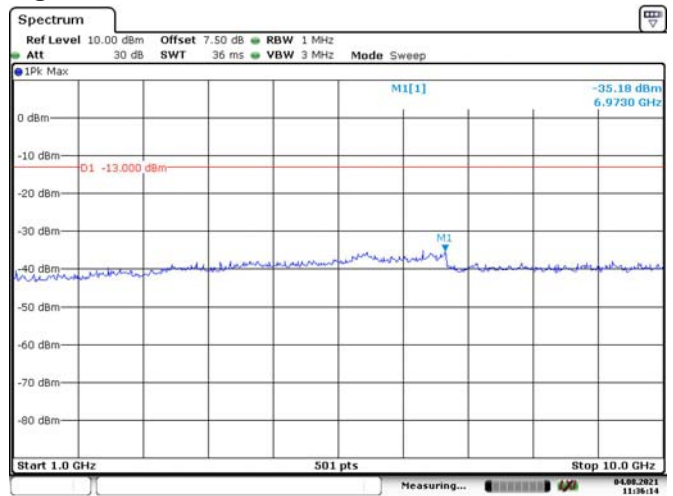


Date: 4.AUG.2021 11:35:22

10M, QPSK, High Channel

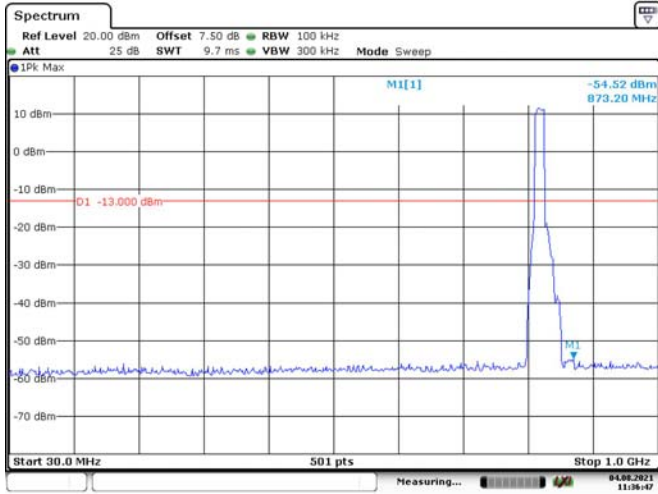


Date: 4.AUG.2021 11:35:49

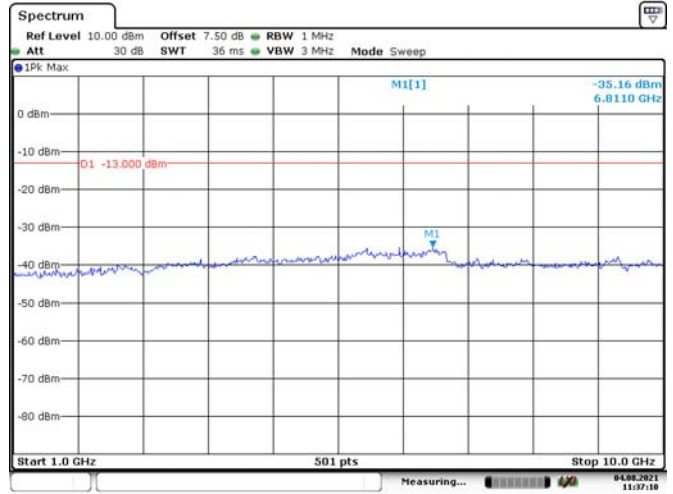


Date: 4.AUG.2021 11:36:15

15M, QPSK, Low Channel

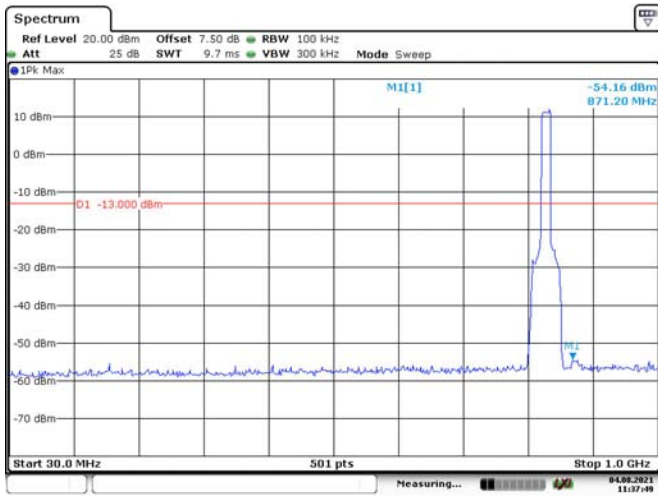


Date: 4.AUG.2021 11:36:48

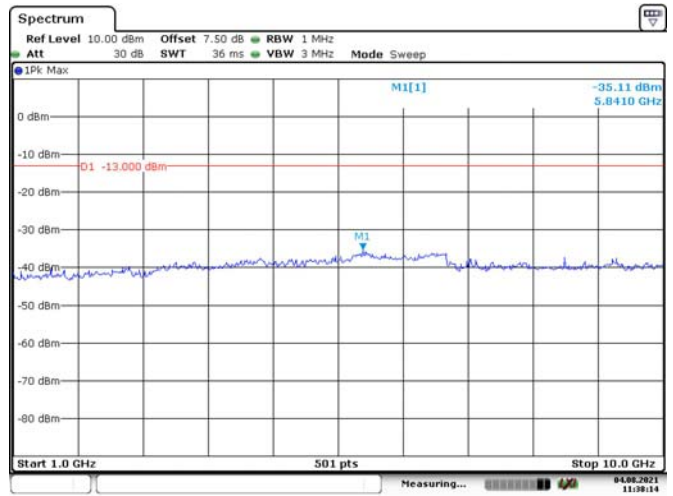


Date: 4.AUG.2021 11:37:10

15M, QPSK, Middle Channel

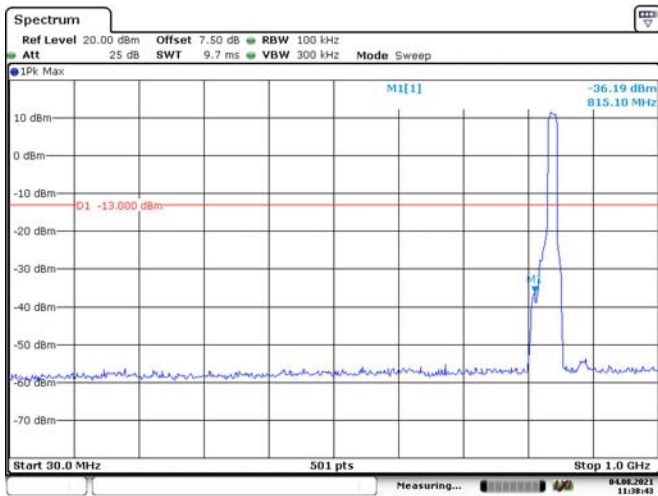


Date: 4.AUG.2021 11:37:49

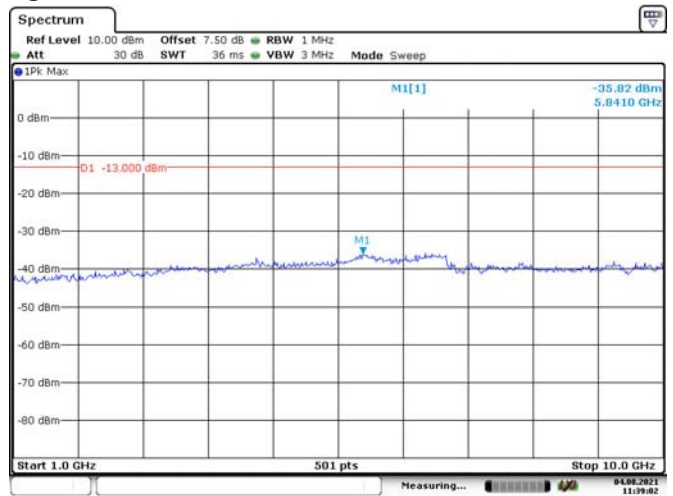


Date: 4.AUG.2021 11:38:14

15M, QPSK, High Channel



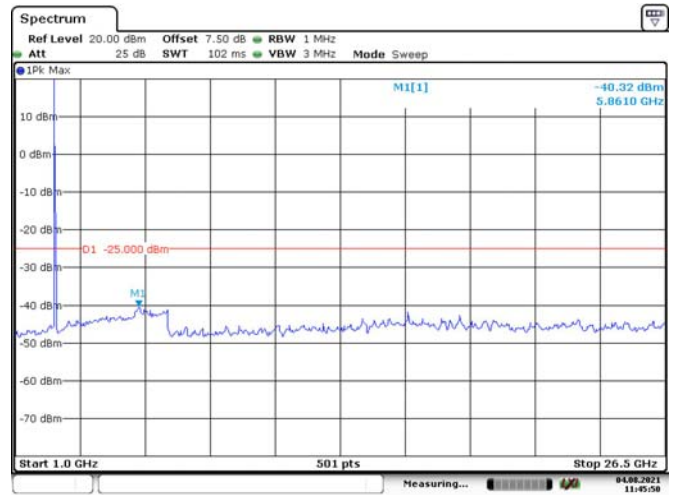
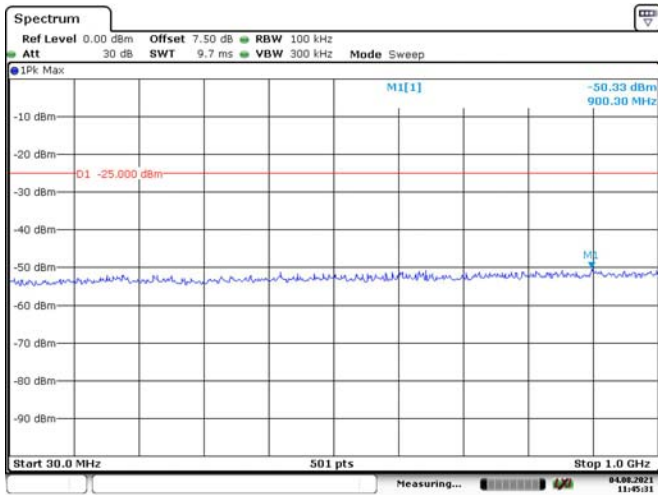
Date: 4.AUG.2021 11:38:44



Date: 4.AUG.2021 11:39:03

LTE Band 38:

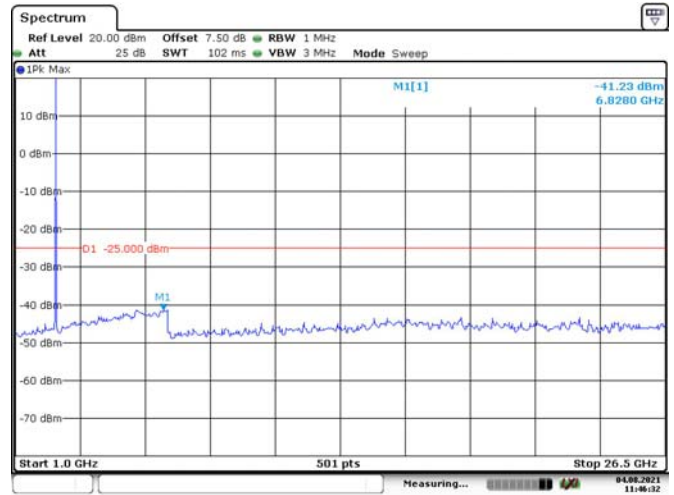
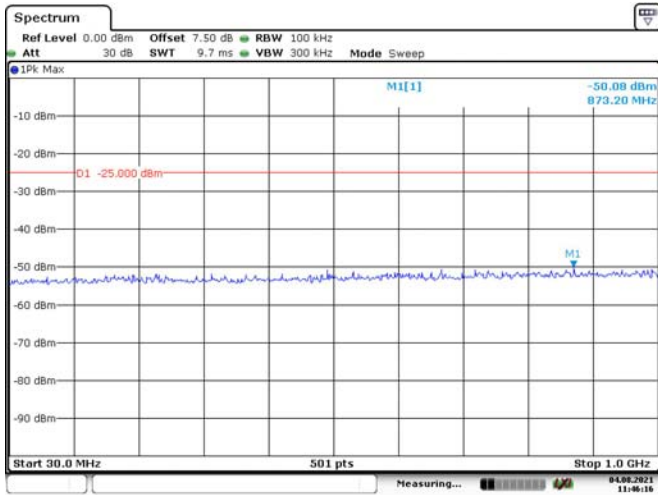
5M, QPSK, Low Channel



Date: 4.AUG.2021 11:45:13

Date: 4.AUG.2021 11:45:50

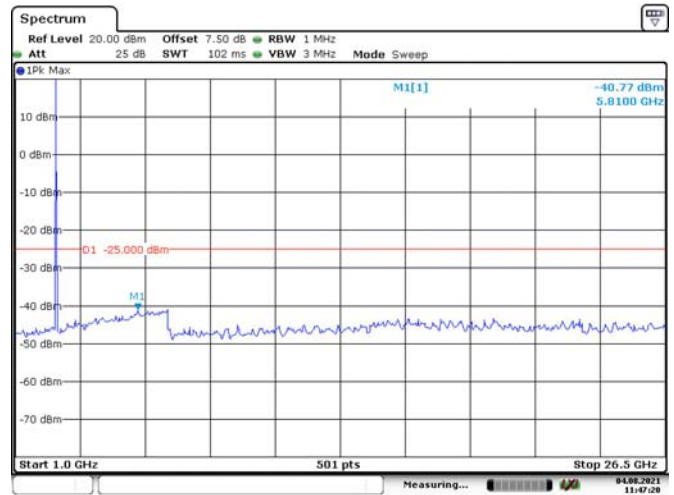
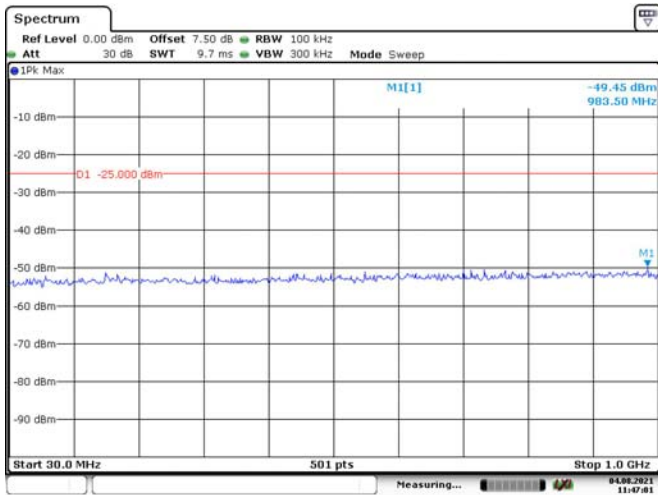
5M, QPSK, Middle Channel



Date: 4.AUG.2021 11:46:16

Date: 4.AUG.2021 11:46:32

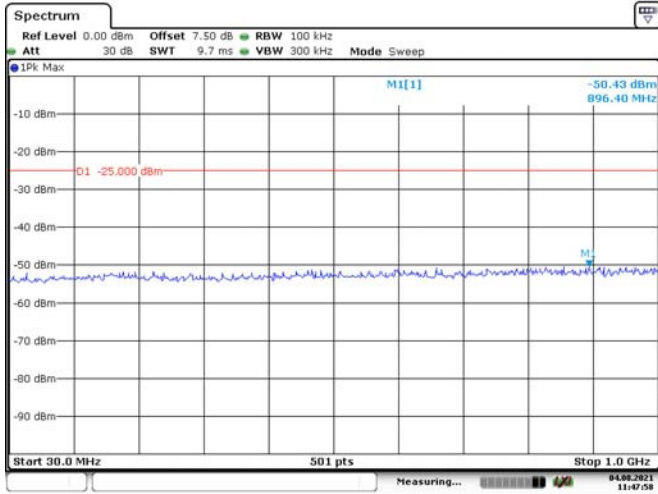
5M, QPSK, High Channel



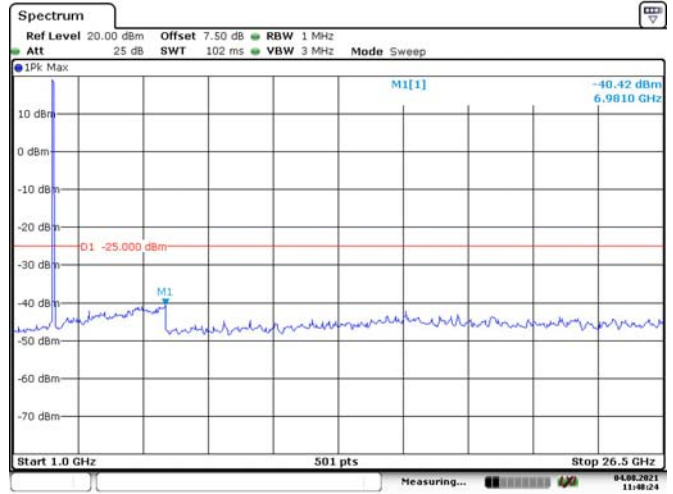
Date: 4.AUG.2021 11:47:02

Date: 4.AUG.2021 11:47:21

10M, QPSK, Low Channel

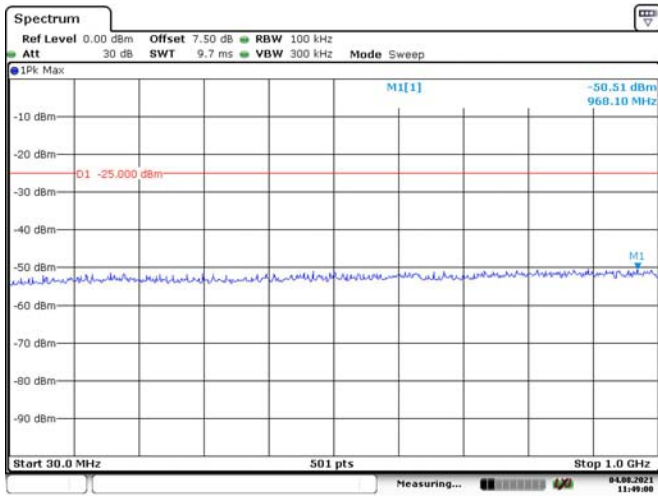


Date: 4.AUG.2021 11:47:59

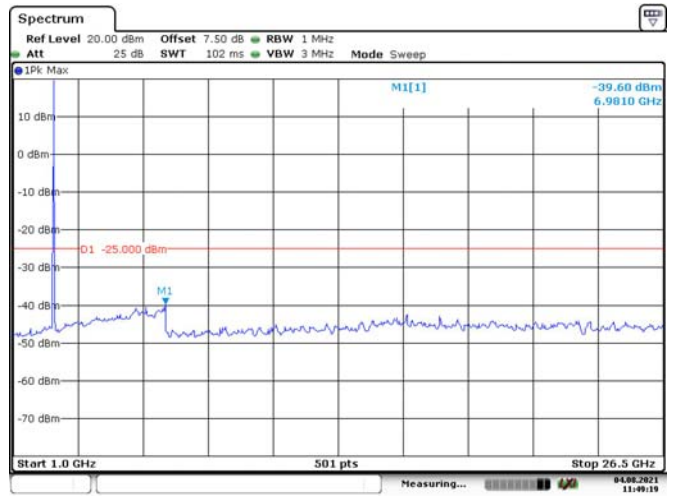


Date: 4.AUG.2021 11:48:24

10M, QPSK, Middle Channel

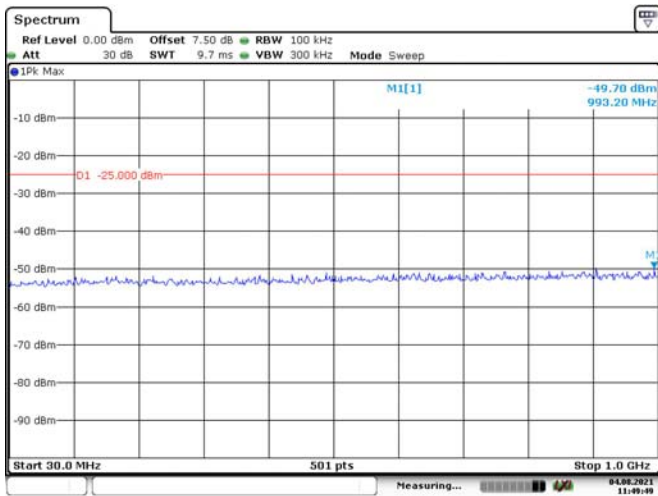


Date: 4.AUG.2021 11:49:01

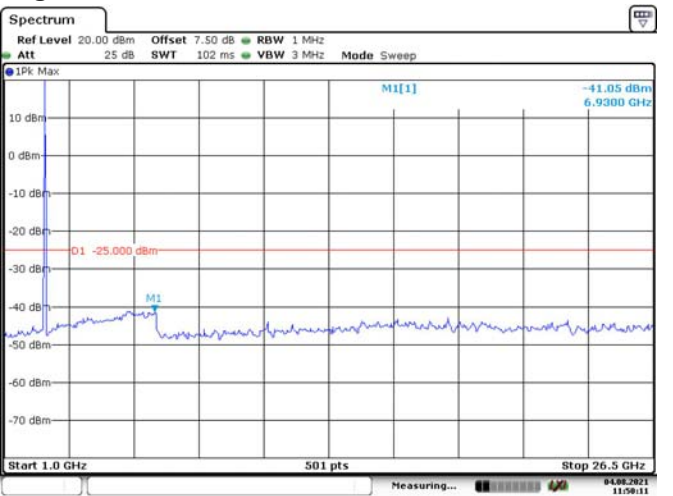


Date: 4.AUG.2021 11:49:20

10M, QPSK, High Channel

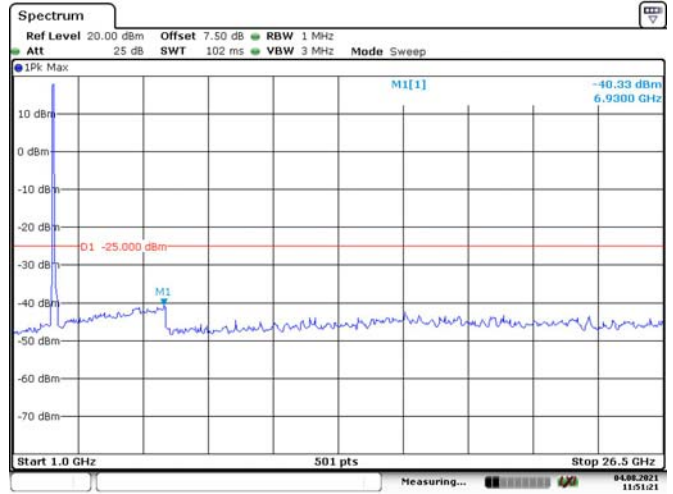
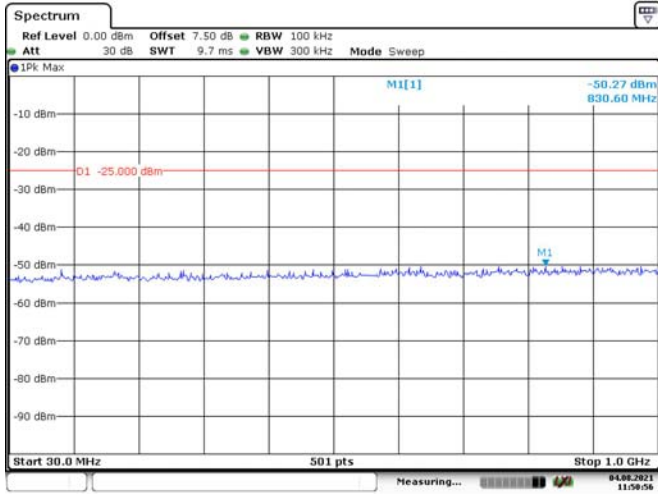


Date: 4.AUG.2021 11:49:50

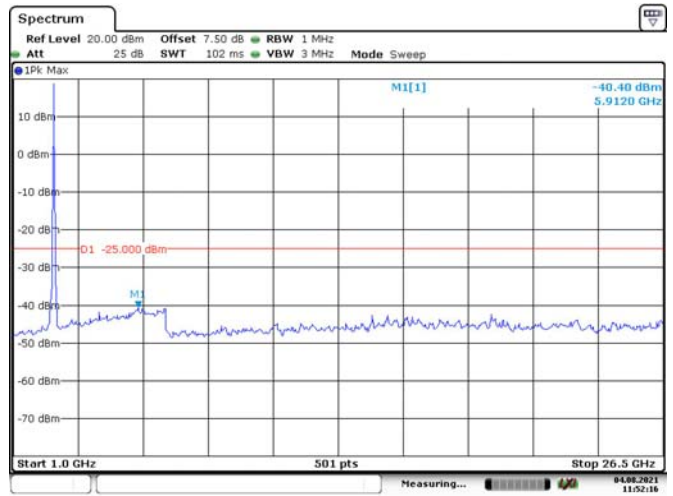
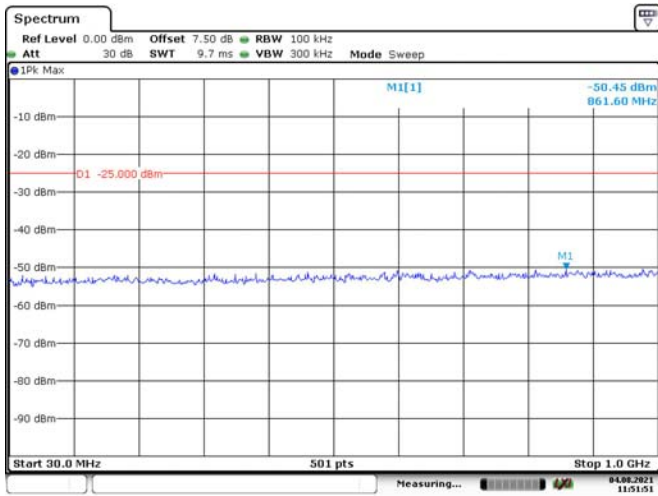


Date: 4.AUG.2021 11:50:12

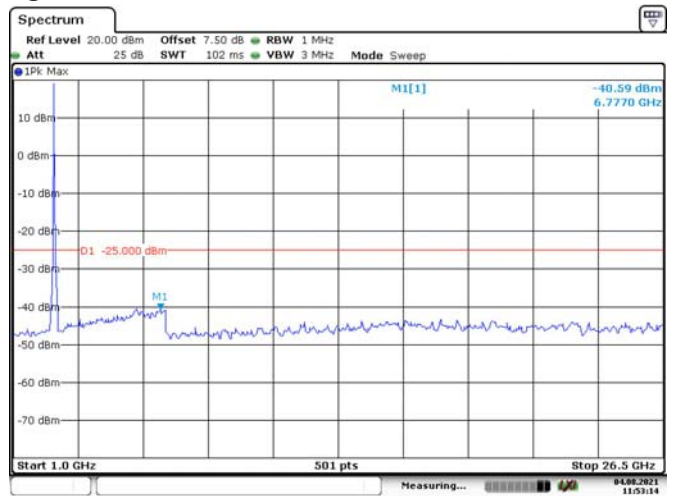
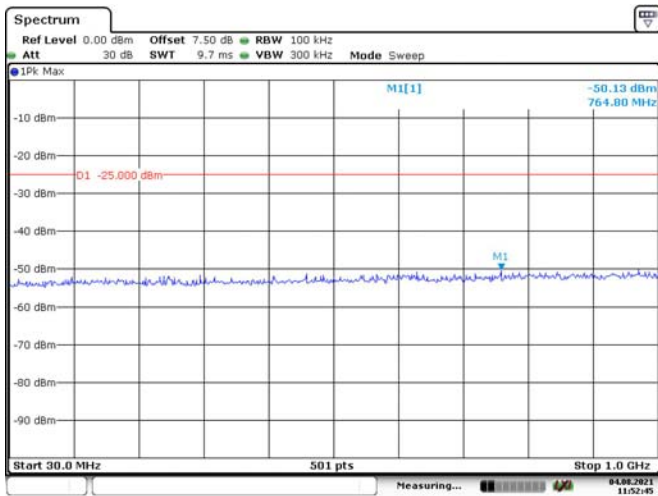
15M, QPSK, Low Channel



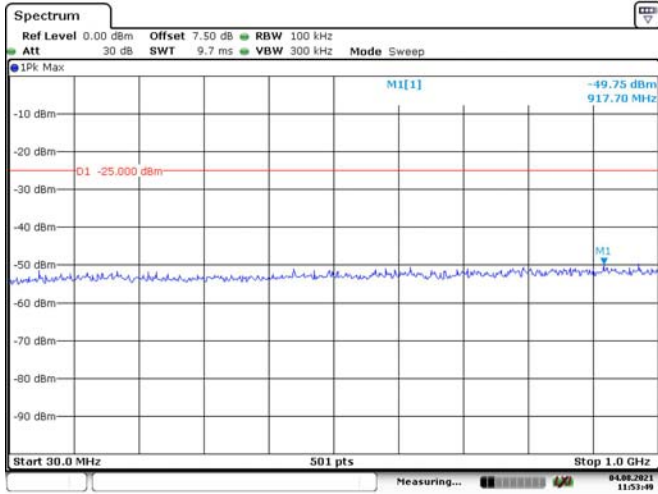
15M, QPSK, Middle Channel



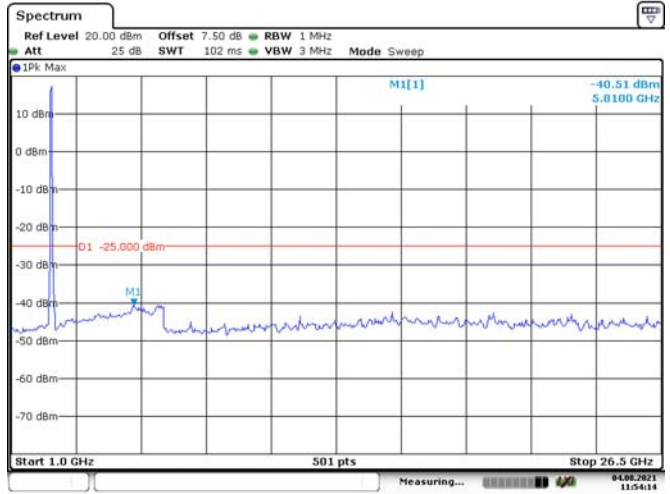
15M, QPSK, High Channel



20M, QPSK, Low Channel

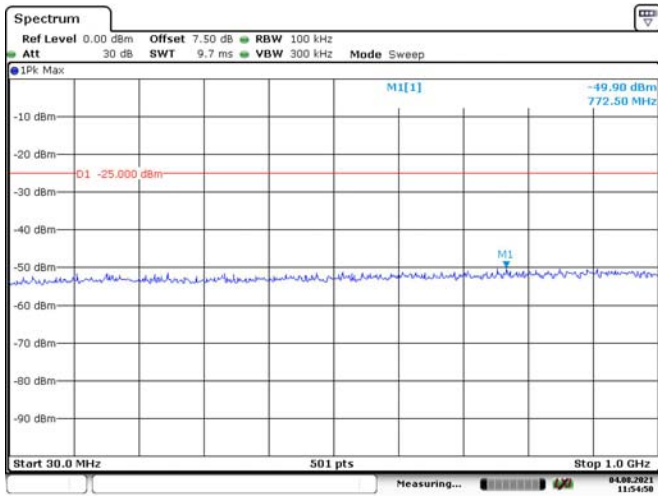


Date: 4.AUG.2021 11:53:50

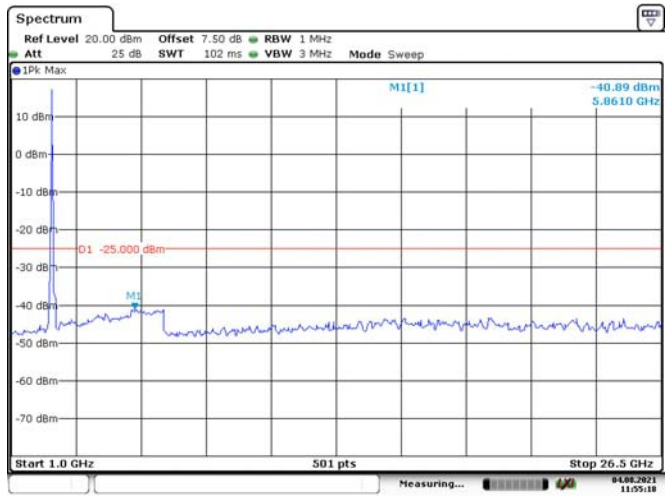


Date: 4.AUG.2021 11:54:15

20M, QPSK, Middle Channel

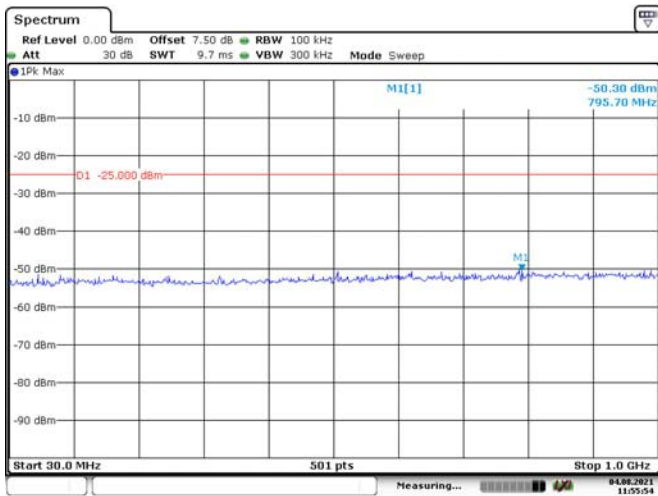


Date: 4.AUG.2021 11:54:51

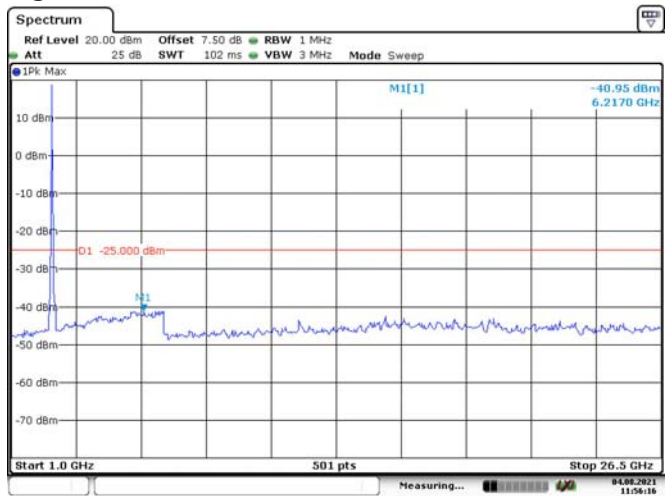


Date: 4.AUG.2021 11:55:19

20M, QPSK, High Channel



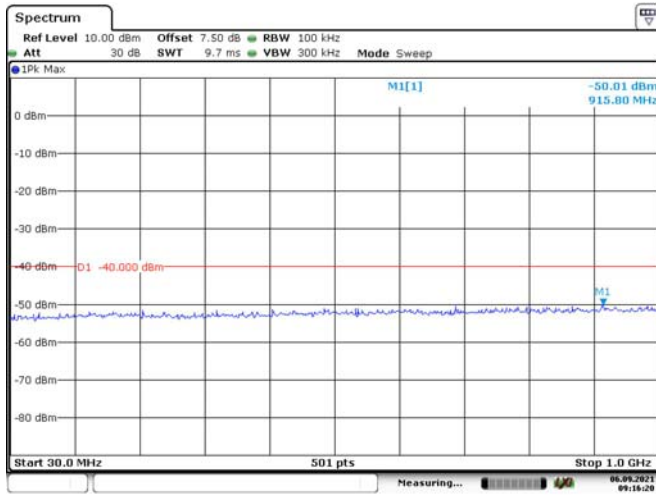
Date: 4.AUG.2021 11:55:54



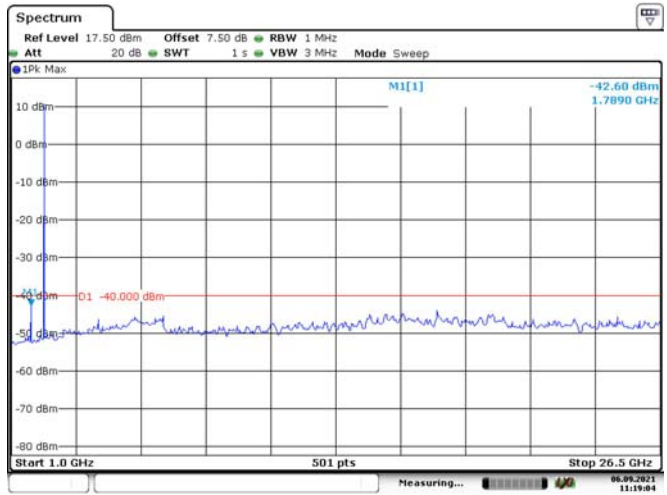
Date: 4.AUG.2021 11:56:17

LTE Band 40 Lower:

5M, QPSK, Low Channel

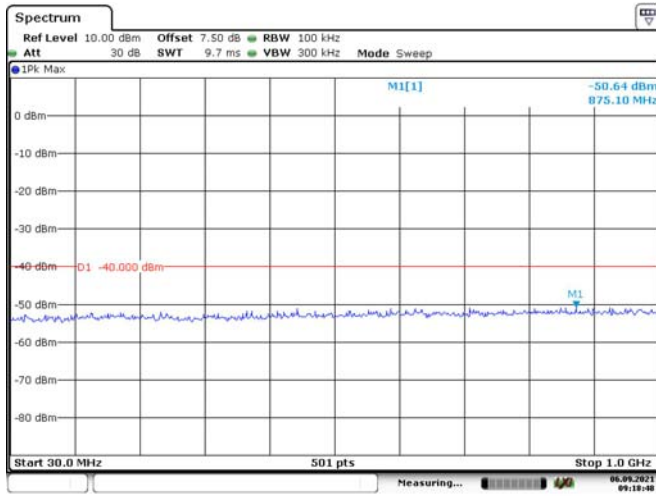


Date: 6.SEP.2021 09:16:21

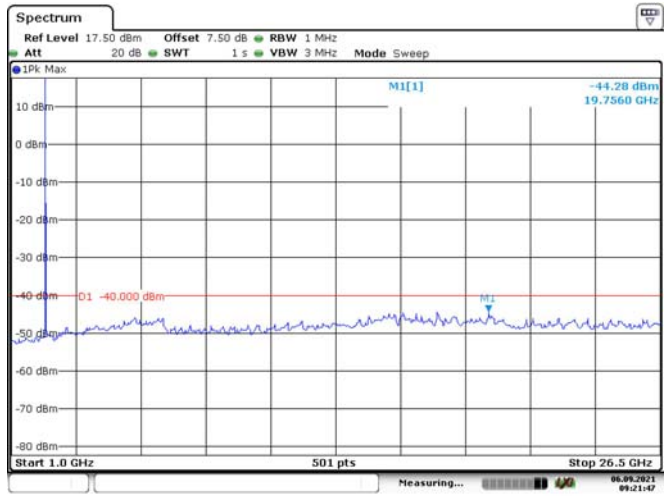


Date: 6.SEP.2021 11:19:05

5M, QPSK, Middle Channel

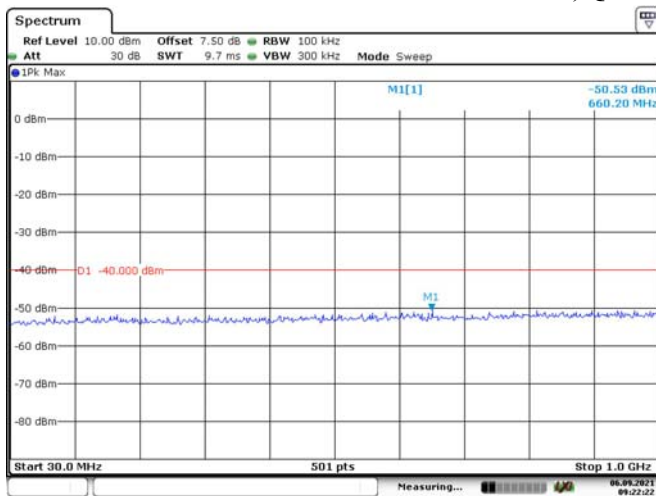


Date: 6.SEP.2021 09:18:49

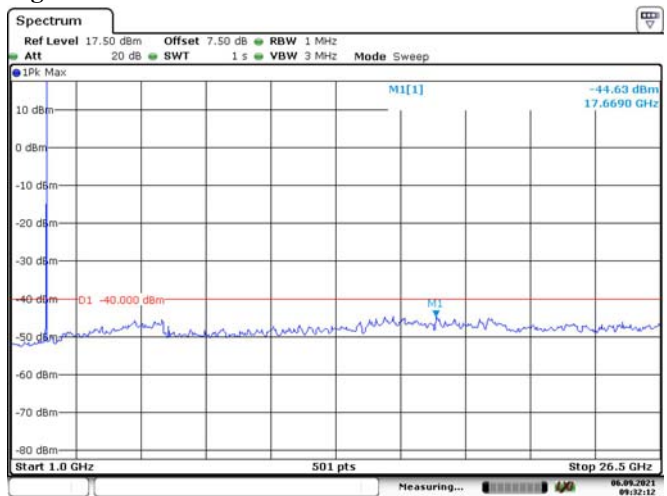


Date: 6.SEP.2021 09:21:48

5M, QPSK, High Channel

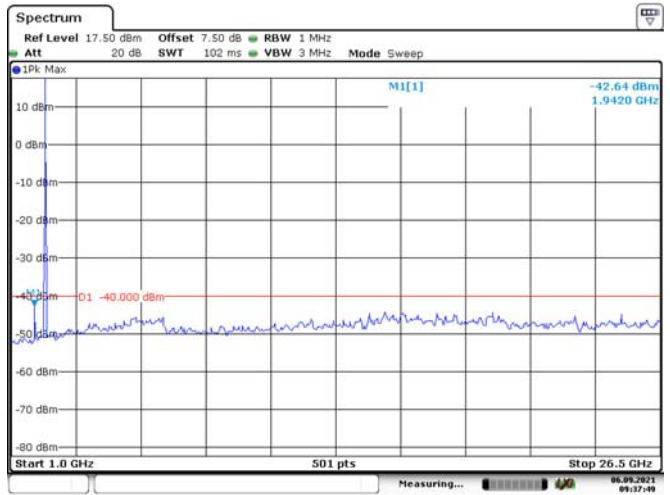
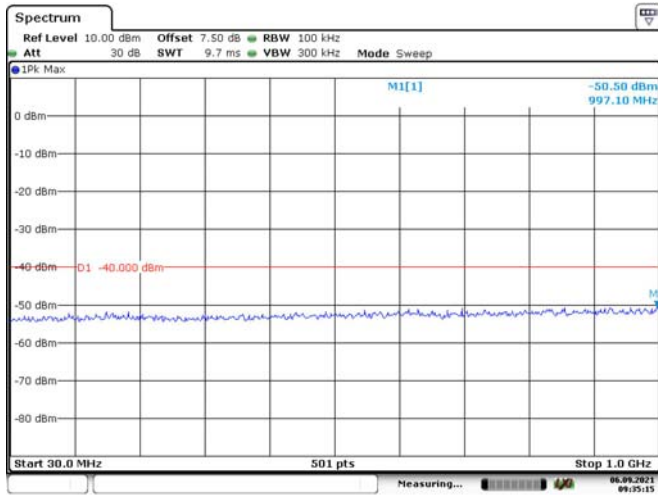


Date: 6.SEP.2021 09:22:23



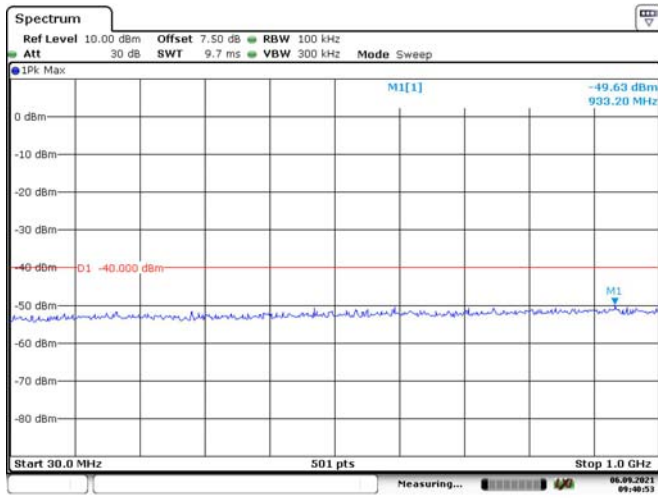
Date: 6.SEP.2021 09:32:12

10M, QPSK, Middle Channel

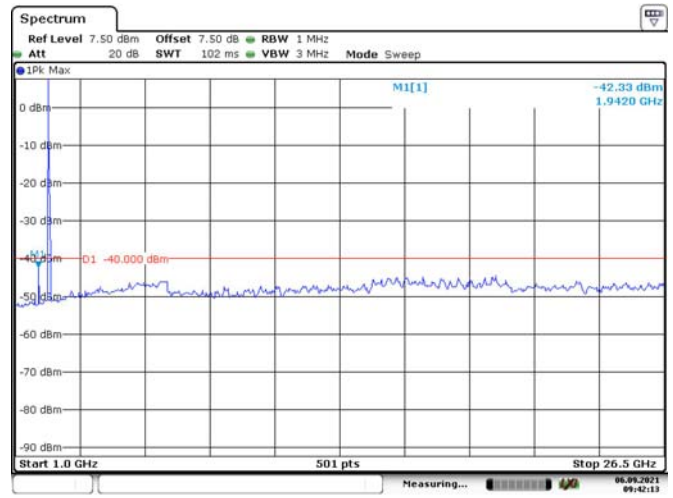


LTE Band 40 Upper:

5M, QPSK, Low Channel

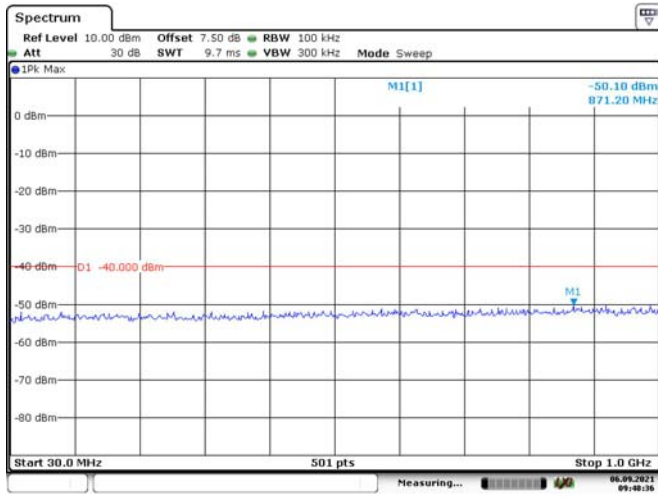


Date: 6.SEP.2021 09:40:53

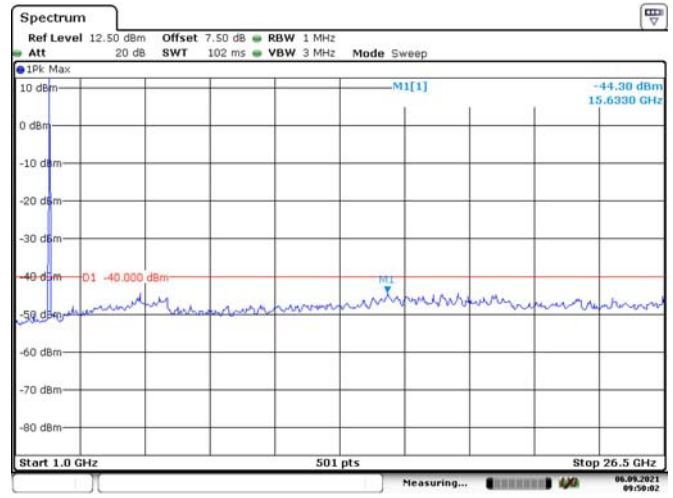


Date: 6.SEP.2021 09:42:14

5M, QPSK, Middle Channel

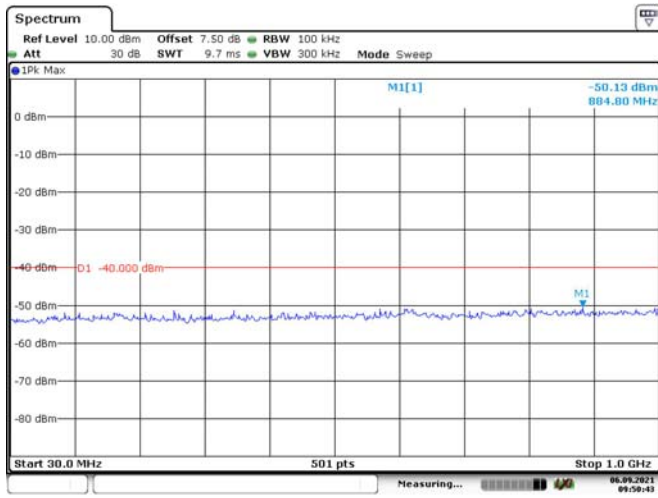


Date: 6.SEP.2021 09:48:37

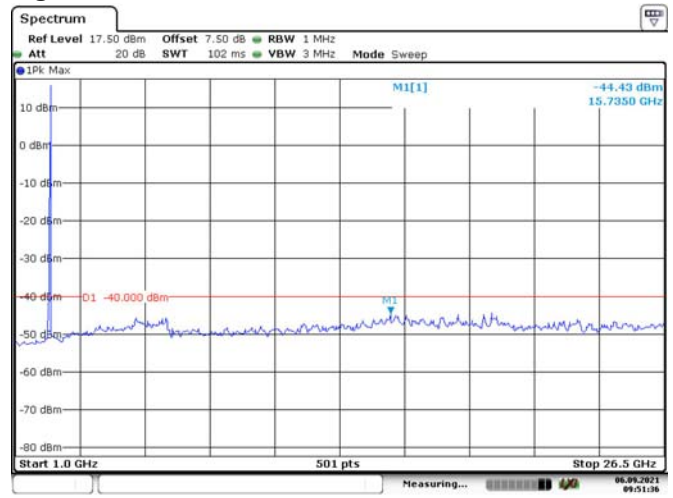


Date: 6.SEP.2021 09:50:02

5M, QPSK, High Channel

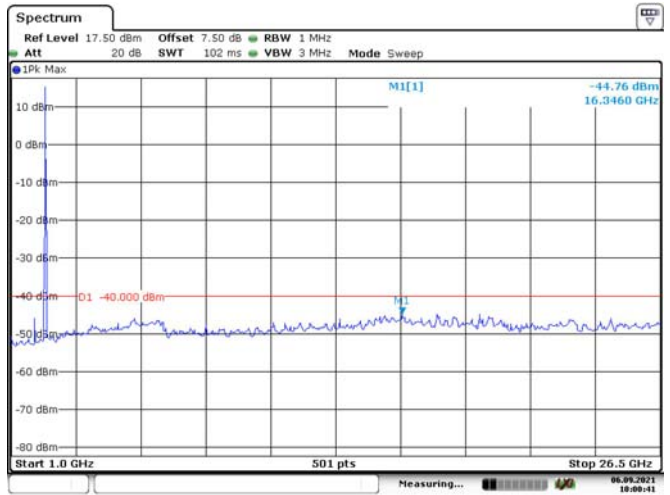
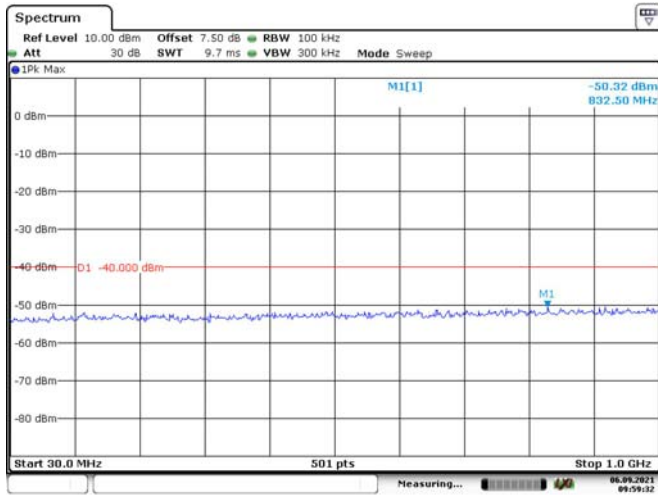


Date: 6.SEP.2021 09:50:43



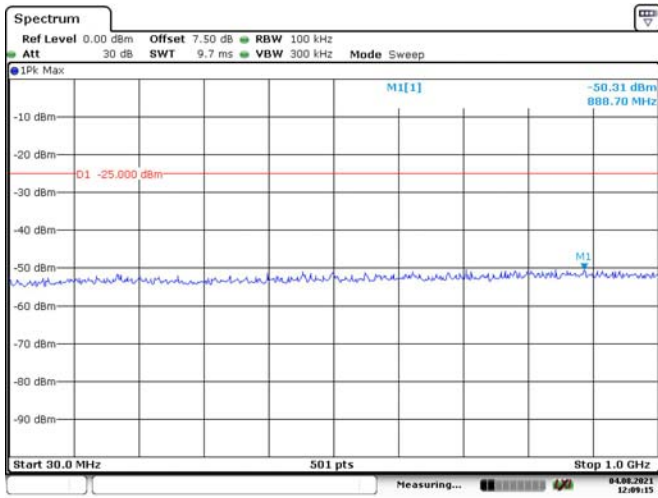
Date: 6.SEP.2021 09:51:36

10M, QPSK, Middle Channel

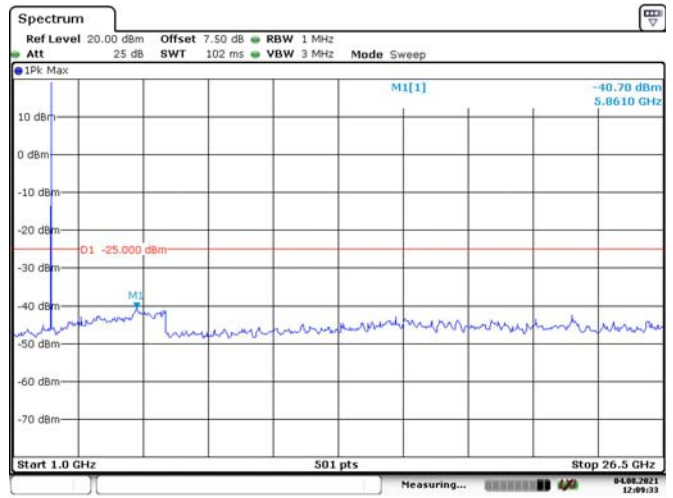


LTE Band 41:

5M, QPSK, Low Channel

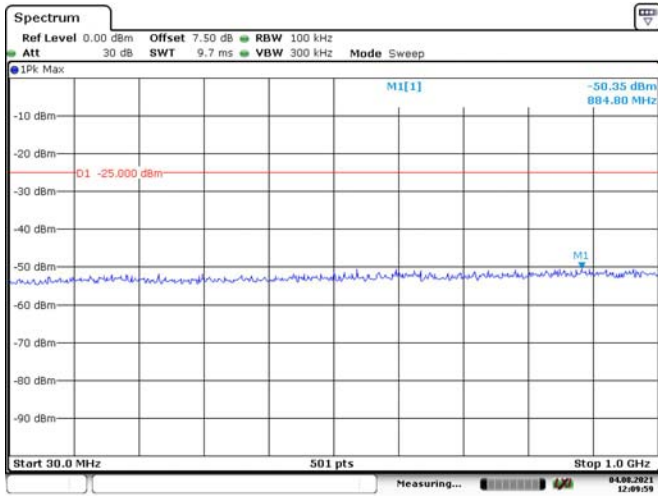


Date: 4.AUG.2021 12:09:14

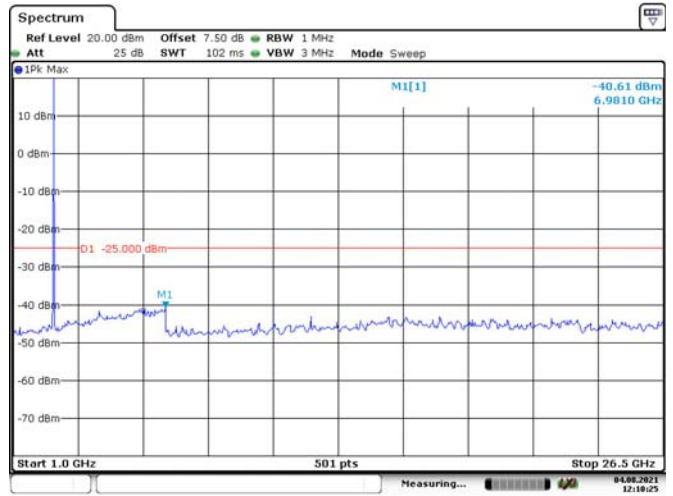


Date: 4.AUG.2021 12:09:33

5M, QPSK, Middle Channel

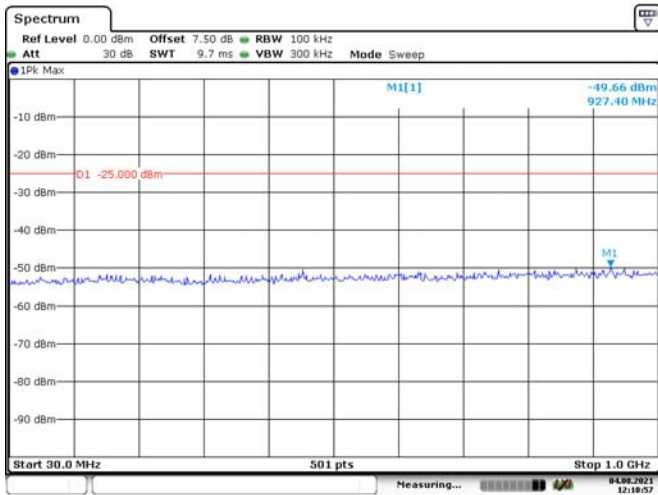


Date: 4.AUG.2021 12:09:59

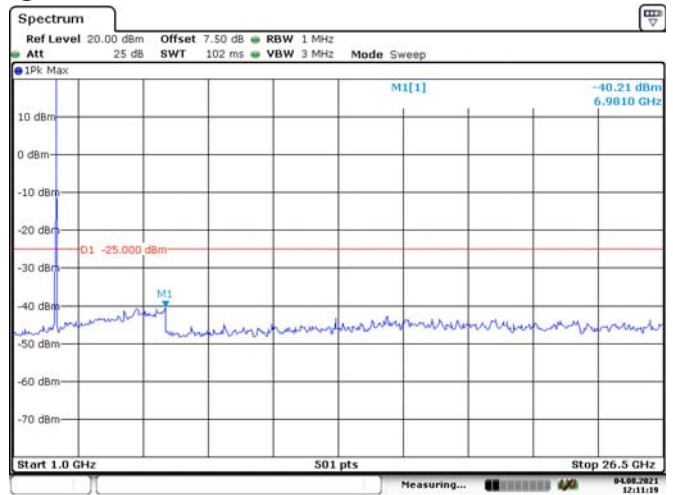


Date: 4.AUG.2021 12:10:24

5M, QPSK, High Channel

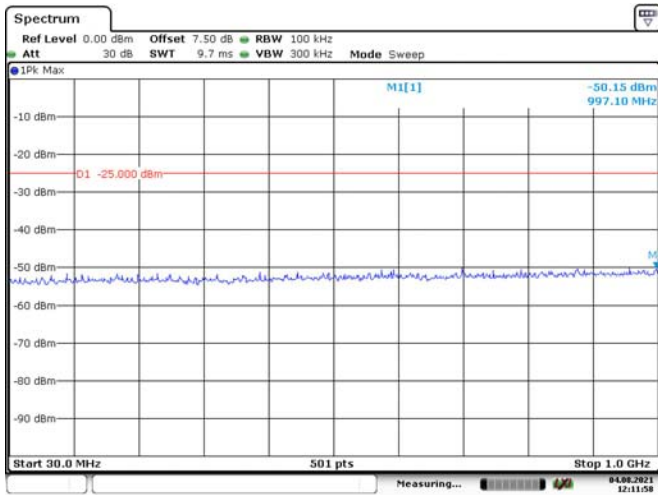


Date: 4.AUG.2021 12:10:57

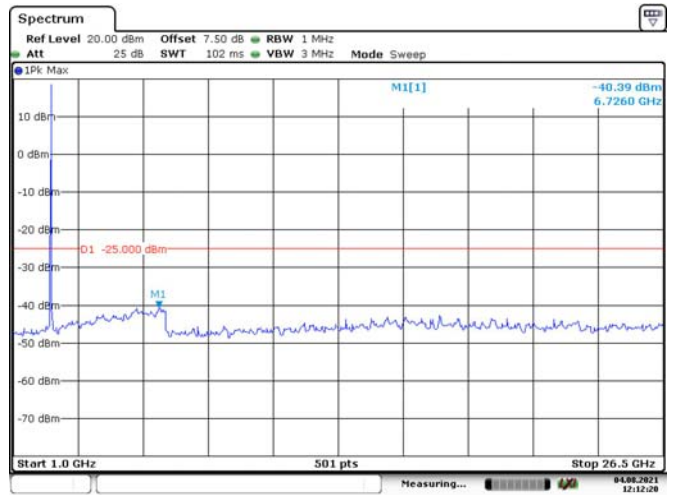


Date: 4.AUG.2021 12:11:19

10M, QPSK, Low Channel

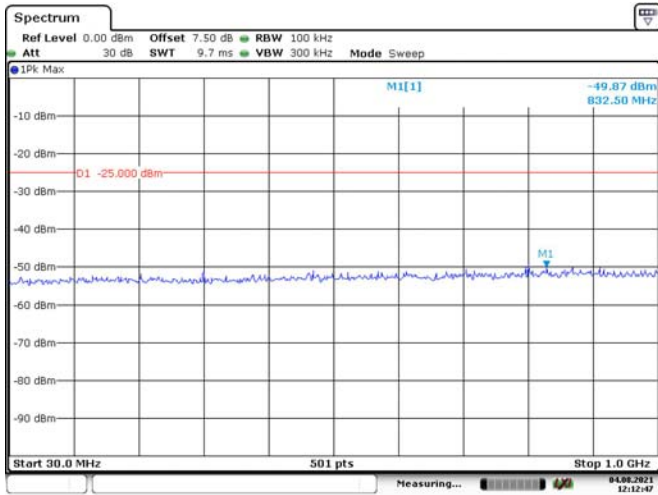


Date: 4.AUG.2021 12:11:58

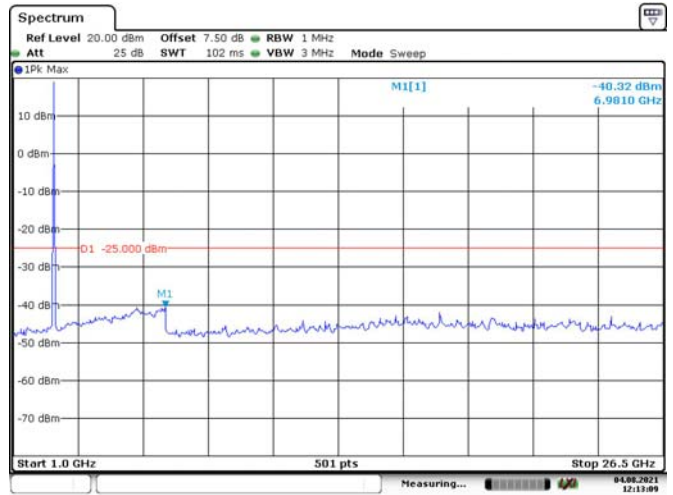


Date: 4.AUG.2021 12:12:20

10M, QPSK, Middle Channel

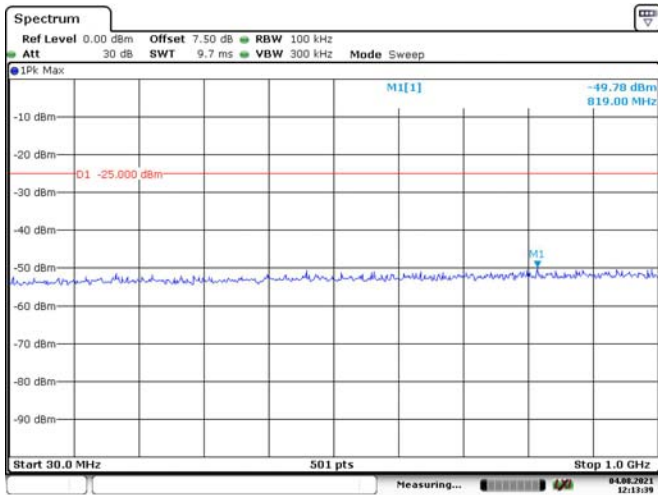


Date: 4.AUG.2021 12:12:47

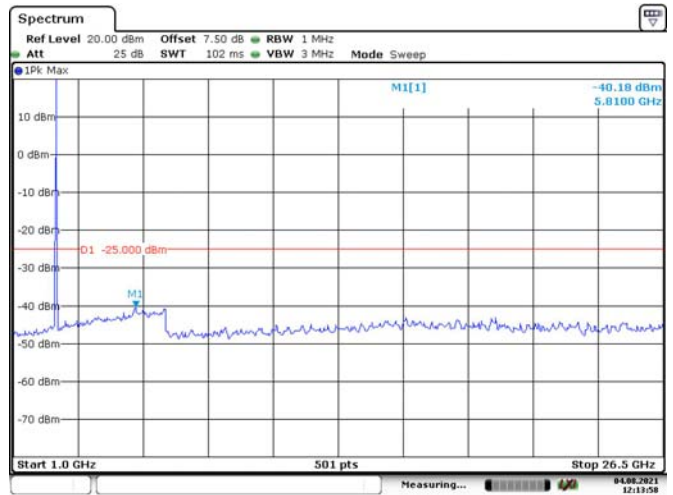


Date: 4.AUG.2021 12:13:09

10M, QPSK, High Channel

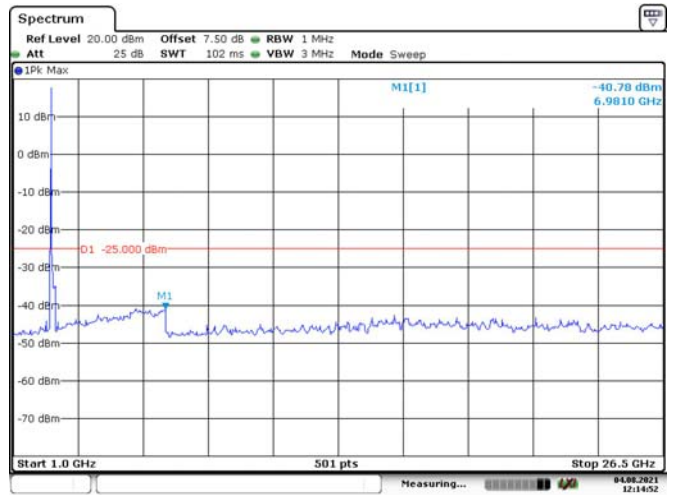
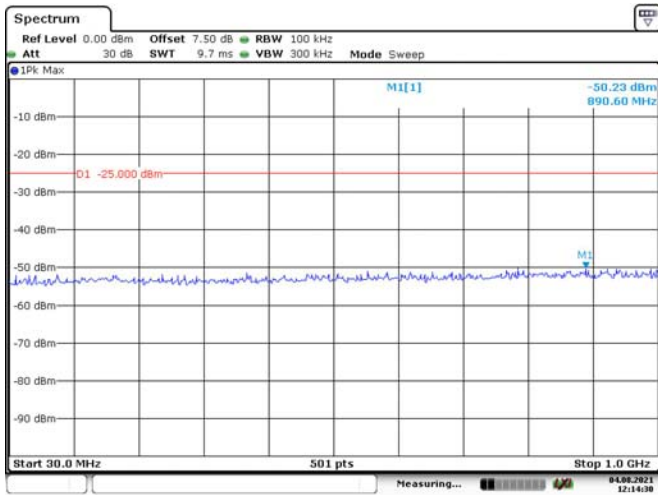


Date: 4.AUG.2021 12:13:39

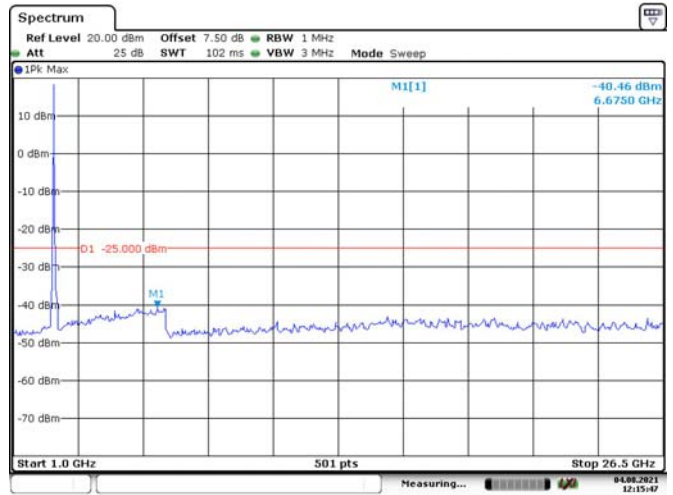
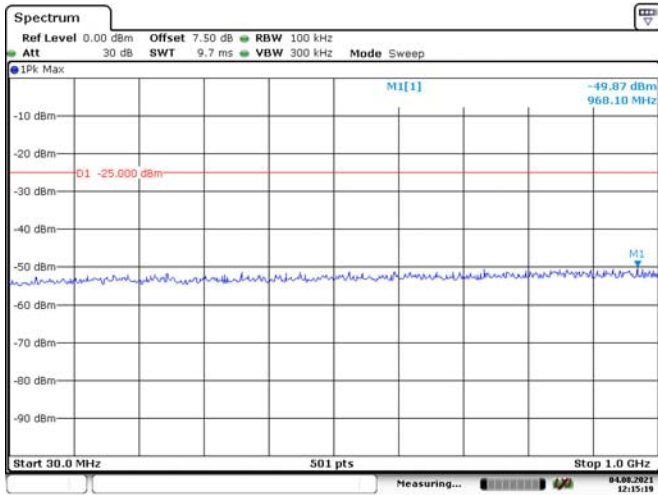


Date: 4.AUG.2021 12:13:58

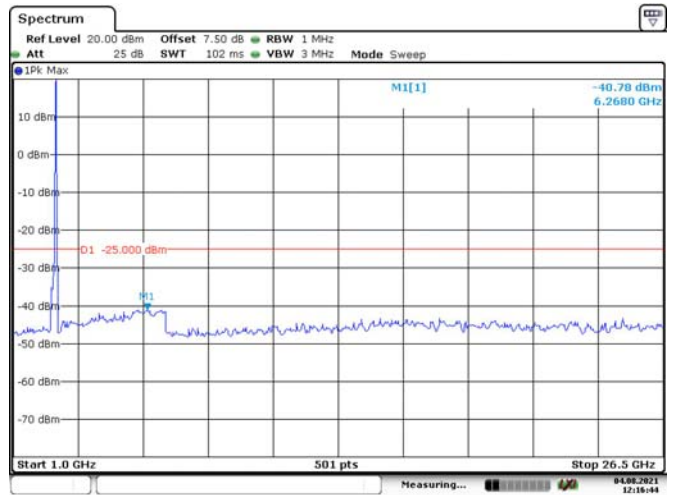
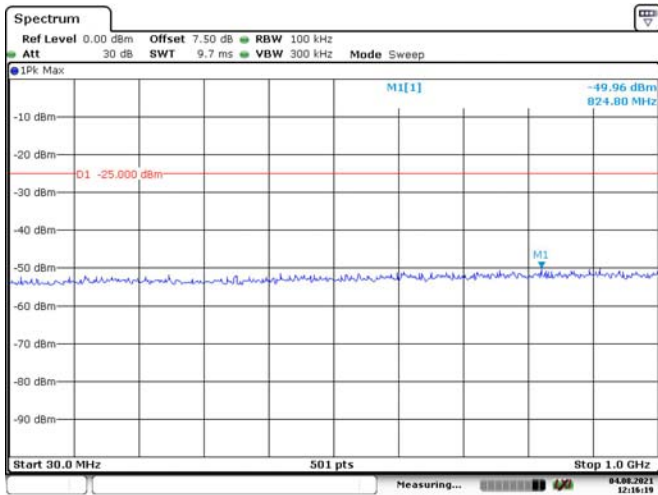
15M, QPSK, Low Channel



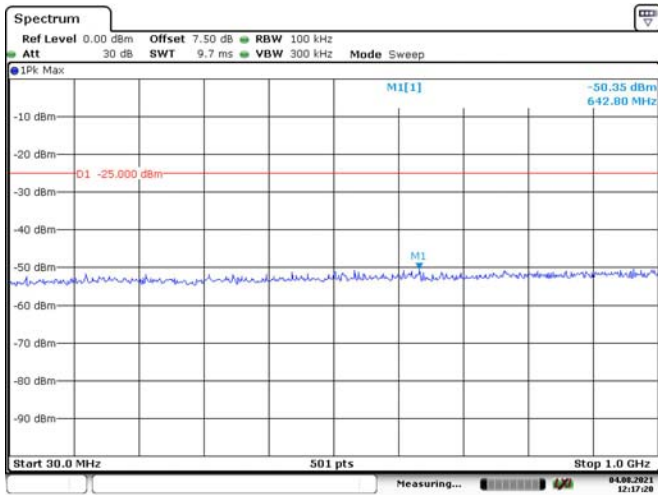
15M, QPSK, Middle Channel



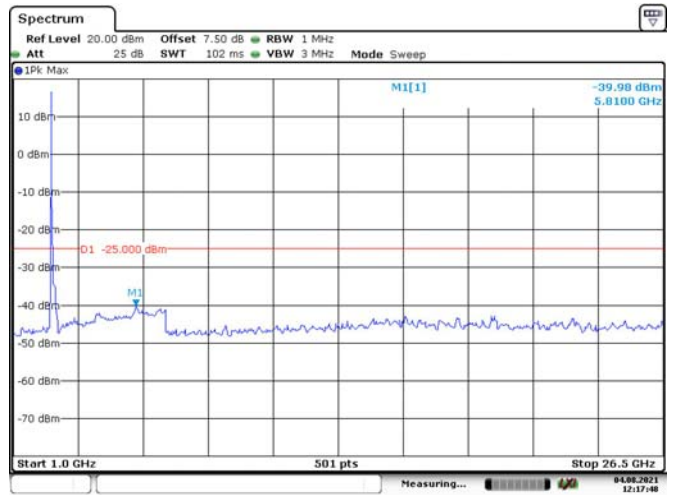
15M, QPSK, High Channel



20M, QPSK, Low Channel

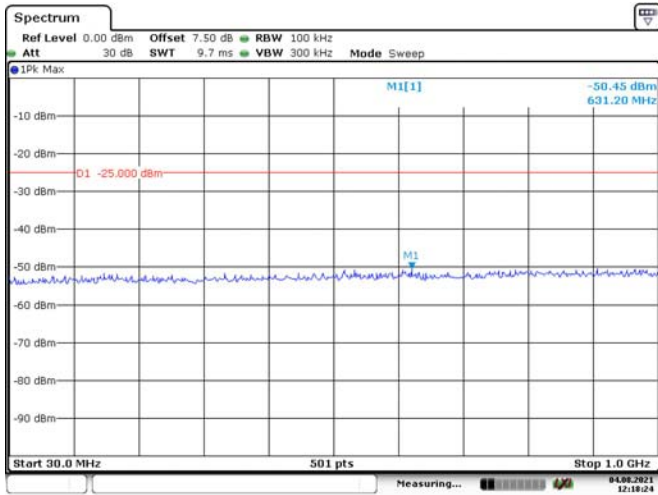


Date: 4.AUG.2021 12:17:20

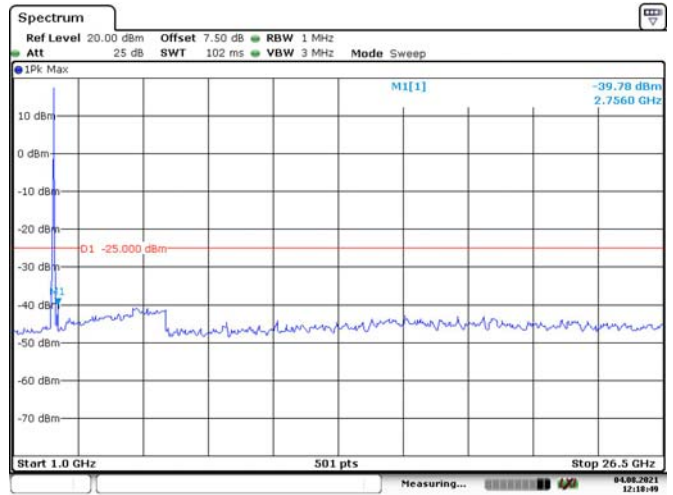


Date: 4.AUG.2021 12:17:48

20M, QPSK, Middle Channel

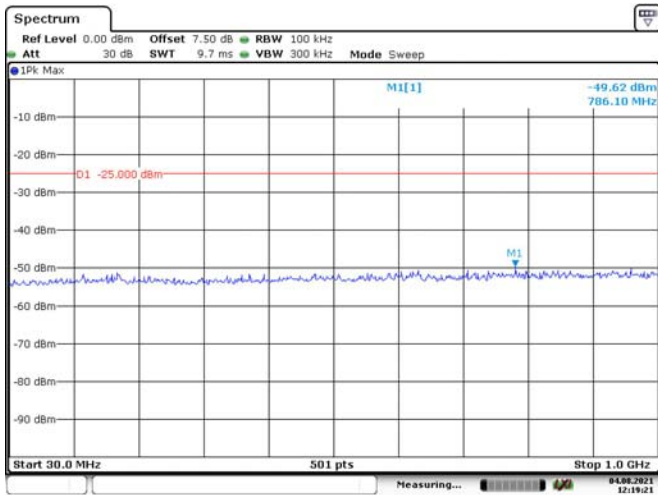


Date: 4.AUG.2021 12:18:23

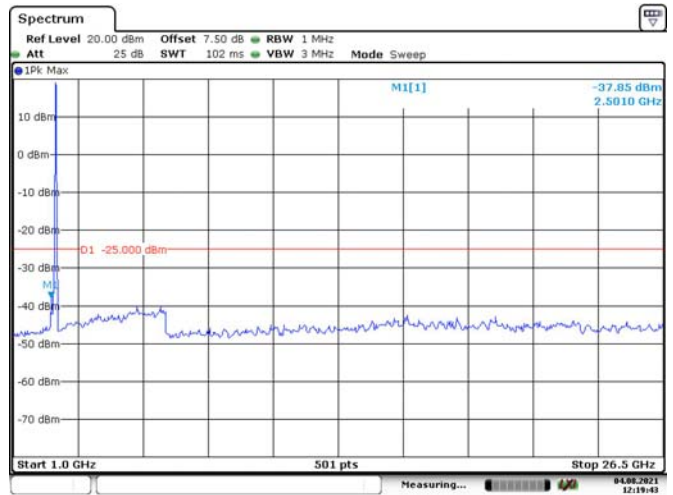


Date: 4.AUG.2021 12:18:49

20M, QPSK, High Channel



Date: 4.AUG.2021 12:19:21



Date: 4.AUG.2021 12:19:43

FCC §2.1053, §22.917 & §24.238 & §27.53 & §90.691 - SPURIOUS RADIATED EMISSIONS

Applicable Standard

FCC § 2.1053, §22.917, § 24.238, § 27.53 and §90.691

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-07-19	2022-07-18
Sonoma	Amplifier	310N	372193	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Agilent	Spectrum Analyzer	E4440A	SG43360054	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2021-06-27	2022-06-26
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536- JO	15964001001	2021-06-27	2022-06-26
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2020-12-05	2023-12-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	26.1°C	26.1°C
Relative Humidity:	49%	57
ATM Pressure:	100.3Pa	100.4kPa
Tester:	Joker Chen	Alex Hu, Jeremy Liang
Test Date:	2021-08-11	2021-08-12

Test Result: Compliance.

EUT Operation Mode: Transmitting

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	74.99	-43.53	8.68	0.80	-35.65	-13.00	22.65
1648.40	V	76.28	-42.32	8.68	0.80	-34.44	-13.00	21.44
2472.60	H	58.54	-56.30	9.38	1.00	-47.92	-13.00	34.92
2472.60	V	58.69	-56.10	9.38	1.00	-47.72	-13.00	34.72
3296.80	H	57.77	-53.38	10.32	1.15	-44.21	-13.00	31.21
3296.80	V	58.74	-52.17	10.32	1.15	-43.00	-13.00	30.00
646.60	H	32.56	-45.83	0.00	0.84	-46.67	-13.00	33.67
735.20	V	34.96	-38.78	0.00	0.94	-39.72	-13.00	26.72
GSM 850 Frequency:836.6MHz								
1673.20	H	71.63	-46.86	8.71	0.85	-39.00	-13.00	26.00
1673.20	V	72.76	-45.83	8.71	0.85	-37.97	-13.00	24.97
2509.80	H	55.74	-58.92	9.42	1.01	-50.51	-13.00	37.51
2509.80	V	55.31	-59.36	9.42	1.01	-50.95	-13.00	37.95
3346.40	H	61.54	-50.05	10.34	1.16	-40.87	-13.00	27.87
3346.40	V	62.24	-49.22	10.34	1.16	-40.04	-13.00	27.04
693.60	H	32.03	-45.13	0.00	0.93	-46.06	-13.00	33.06
735.10	V	34.61	-39.14	0.00	0.94	-40.08	-13.00	27.08
GSM 850 Frequency:848.8MHz								
1697.60	H	71.15	-47.31	8.74	0.90	-39.47	-13.00	26.47
1697.60	V	72.01	-46.58	8.74	0.90	-38.74	-13.00	25.74
2546.40	H	54.65	-59.73	9.47	1.01	-51.27	-13.00	38.27
2546.40	V	53.67	-60.66	9.47	1.01	-52.20	-13.00	39.20
3395.20	H	59.94	-52.14	10.36	1.19	-42.97	-13.00	29.97
3395.20	V	60.16	-51.89	10.36	1.19	-42.72	-13.00	29.72
662.40	H	31.97	-46.01	0.00	0.87	-46.88	-13.00	33.88
747.70	V	34.52	-38.92	0.00	0.94	-39.86	-13.00	26.86

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)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	51.22	-67.29	8.68	0.81	-59.42	-13.00	46.42
1652.80	V	50.13	-68.46	8.68	0.81	-60.59	-13.00	47.59
2479.20	H	50.85	-63.97	9.39	1.01	-55.59	-13.00	42.59
2479.20	V	50.05	-64.73	9.39	1.01	-56.35	-13.00	43.35
3305.60	H	49.91	-61.28	10.32	1.15	-52.11	-13.00	39.11
3305.60	V	50.68	-60.28	10.32	1.15	-51.11	-13.00	38.11
693.30	H	36.91	-70.16	0.00	0.93	-71.09	-13.00	58.09
724.20	V	36.69	-72.40	0.00	0.94	-73.34	-13.00	60.34
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	50.26	-68.23	8.71	0.85	-60.37	-13.00	47.37
1673.20	V	49.88	-68.71	8.71	0.85	-60.85	-13.00	47.85
2509.80	H	51.23	-63.43	9.42	1.01	-55.02	-13.00	42.02
2509.80	V	50.95	-63.72	9.42	1.01	-55.31	-13.00	42.31
3346.40	H	49.87	-61.72	10.34	1.16	-52.54	-13.00	39.54
3346.40	V	49.67	-61.79	10.34	1.16	-52.61	-13.00	39.61
705.90	H	36.10	-70.76	0.00	0.94	-71.70	-13.00	58.70
572.60	V	36.32	-75.03	0.00	0.75	-75.78	-13.00	62.78
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	50.37	-68.10	8.73	0.89	-60.26	-13.00	47.26
1693.20	V	49.84	-68.75	8.73	0.89	-60.91	-13.00	47.91
2539.80	H	51.22	-63.21	9.46	1.01	-54.76	-13.00	41.76
2539.80	V	50.85	-63.54	9.46	1.01	-55.09	-13.00	42.09
3386.40	H	49.76	-62.23	10.35	1.18	-53.06	-13.00	40.06
3386.40	V	50.24	-61.70	10.35	1.18	-52.53	-13.00	39.53
649.80	H	36.77	-70.53	0.00	0.85	-71.38	-13.00	58.38
791.50	V	36.85	-71.09	0.00	0.93	-72.02	-13.00	59.02

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)			
WCDMA Band 4 Frequency:1712.4 MHz								
3424.80	H	49.88	-62.25	10.37	1.17	-53.05	-13.00	40.05
3424.80	V	48.77	-63.33	10.37	1.17	-54.13	-13.00	41.13
5137.20	H	49.61	-59.32	11.28	1.46	-49.50	-13.00	36.50
5137.20	V	49.38	-59.44	11.28	1.46	-49.62	-13.00	36.62
778.60	H	36.52	-68.15	0.00	0.93	-69.08	-13.00	56.08
748.54	V	36.87	-71.81	0.00	0.94	-72.75	-13.00	59.75
WCDMA Band 4 Frequency:1732.6MHz								
3465.20	H	50.22	-61.90	10.39	1.15	-52.66	-13.00	39.66
3465.20	V	49.21	-62.87	10.39	1.15	-53.63	-13.00	40.63
5197.80	H	49.87	-59.47	11.32	1.44	-49.59	-13.00	36.59
5197.80	V	49.71	-59.48	11.32	1.44	-49.60	-13.00	36.60
779.61	H	36.41	-68.23	0.00	0.93	-69.16	-13.00	56.16
746.85	V	36.87	-71.83	0.00	0.94	-72.77	-13.00	59.77
WCDMA Band 4 Frequency:1752.6MHz								
3505.20	H	51.53	-60.58	10.41	1.18	-51.35	-13.00	38.35
3505.20	V	51.63	-60.42	10.41	1.18	-51.19	-13.00	38.19
5257.80	H	50.93	-58.28	11.35	1.47	-48.40	-13.00	35.40
5257.80	V	50.33	-58.66	11.35	1.47	-48.78	-13.00	35.78
785.47	H	36.28	-68.19	0.00	0.93	-69.12	-13.00	56.12
748.90	V	36.47	-72.20	0.00	0.94	-73.14	-13.00	60.14

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	67.84	-44.24	10.60	1.25	-34.89	-13.00	21.89
3700.40	V	70.48	-41.58	10.60	1.25	-32.23	-13.00	19.23
5550.60	H	58.54	-50.62	11.44	1.49	-40.67	-13.00	27.67
5550.60	V	60.07	-48.93	11.44	1.49	-38.98	-13.00	25.98
768.85	H	32.99	-42.77	0.00	0.93	-43.70	-13.00	30.70
685.18	V	34.15	-40.82	0.00	0.91	-41.73	-13.00	28.73
GSM 1900 Frequency:1880MHz								
3760.00	H	64.15	-47.01	10.66	1.24	-37.59	-13.00	24.59
3760.00	V	71.12	-39.92	10.66	1.24	-30.50	-13.00	17.50
5640.00	H	46.79	-62.55	11.33	1.54	-52.76	-13.00	39.76
5640.00	V	60.25	-48.97	11.33	1.54	-39.18	-13.00	26.18
659.88	H	33.88	-44.16	0.00	0.87	-45.03	-13.00	32.03
725.66	V	32.44	-41.54	0.00	0.94	-42.48	-13.00	29.48
GSM 1900 Frequency:1909.8MHz								
3819.60	H	66.74	-43.83	10.72	1.29	-34.40	-13.00	21.40
3819.60	V	68.32	-42.11	10.72	1.29	-32.68	-13.00	19.68
5729.40	H	61.33	-48.10	11.22	1.59	-38.47	-13.00	25.47
5729.40	V	59.74	-49.56	11.22	1.59	-39.93	-13.00	26.93
664.25	H	32.44	-45.49	0.00	0.88	-46.37	-13.00	33.37
762.00	V	31.78	-41.31	0.00	0.93	-42.24	-13.00	29.24

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)			
WCDMA Band II, Frequency:1852.4 MHz								
3704.80	H	64.98	-47.04	10.60	1.25	-37.69	-13.00	24.69
3704.80	V	57.65	-54.34	10.60	1.25	-44.99	-13.00	31.99
5557.20	H	57.34	-51.84	11.43	1.49	-41.90	-13.00	28.90
5557.20	V	54.79	-54.23	11.43	1.49	-44.29	-13.00	31.29
776.10	H	35.53	-69.22	0.00	0.93	-70.15	-13.00	57.15
836.50	V	35.85	-70.68	0.00	0.97	-71.65	-13.00	58.65
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	64.91	-46.25	10.66	1.24	-36.83	-13.00	23.83
3760.00	V	58.44	-52.60	10.66	1.24	-43.18	-13.00	30.18
5640.00	H	54.34	-55.00	11.33	1.54	-45.21	-13.00	32.21
5640.00	V	54.56	-54.66	11.33	1.54	-44.87	-13.00	31.87
760.70	H	35.54	-69.67	0.00	0.93	-70.60	-13.00	57.60
798.60	V	36.17	-71.64	0.00	0.93	-72.57	-13.00	59.57
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	79.65	-30.92	10.72	1.29	-21.49	-13.00	8.49
3815.20	V	66.98	-43.43	10.72	1.29	-34.00	-13.00	21.00
5722.80	H	76.38	-33.05	11.23	1.58	-23.40	-13.00	10.40
5722.80	V	66.43	-42.87	11.23	1.58	-33.22	-13.00	20.22
802.80	H	36.12	-67.86	0.00	0.93	-68.79	-13.00	55.79
694.70	V	36.22	-73.36	0.00	0.93	-74.29	-13.00	61.29

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 + Antenna Gain
- 3) Margin = Limit-Absolute Level

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								
3701.40	H	63.22	-48.85	10.60	1.25	-39.50	-13.00	26.50
3701.40	V	61.60	-50.45	10.60	1.25	-41.10	-13.00	28.10
5552.10	H	72.13	-37.04	11.44	1.49	-27.09	-13.00	14.09
5552.10	V	71.40	-37.60	11.44	1.49	-27.65	-13.00	14.65
774.70	H	35.77	-69.02	0.00	0.93	-69.95	-13.00	56.95
877.20	V	35.93	-69.19	0.00	1.02	-70.21	-13.00	57.21
QPSK, Frequency: 1880 MHz								
3760.00	H	58.67	-52.49	10.66	1.24	-43.07	-13.00	30.07
3760.00	V	57.67	-53.37	10.66	1.24	-43.95	-13.00	30.95
5640.00	H	64.46	-44.88	11.33	1.54	-35.09	-13.00	22.09
5640.00	V	62.58	-46.64	11.33	1.54	-36.85	-13.00	23.85
800.00	H	35.30	-68.73	0.00	0.93	-69.66	-13.00	56.66
870.20	V	35.87	-69.49	0.00	1.01	-70.50	-13.00	57.50
QPSK, Frequency: 1909.3 MHz								
3818.60	H	59.37	-51.20	10.72	1.29	-41.77	-13.00	28.77
3818.60	V	59.58	-50.84	10.72	1.29	-41.41	-13.00	28.41
5727.90	H	69.54	-39.89	11.23	1.59	-30.25	-13.00	17.25
5727.90	V	65.81	-43.49	11.23	1.59	-33.85	-13.00	20.85
743.80	H	36.08	-69.64	0.00	0.94	-70.58	-13.00	57.58
808.40	V	36.25	-71.25	0.00	0.94	-72.19	-13.00	59.19

LTE Band 4 (30MHz-20GHz):

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)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	69.11	-43.02	10.37	1.17	-33.82	-13.00	20.82
3421.40	V	65.63	-46.47	10.37	1.17	-37.27	-13.00	24.27
5132.10	H	70.73	-38.17	11.28	1.47	-28.36	-13.00	15.36
5132.10	V	67.26	-41.53	11.28	1.47	-31.72	-13.00	18.72
857.50	H	35.70	-67.35	0.00	1.00	-68.35	-13.00	55.35
774.70	V	36.29	-71.94	0.00	0.93	-72.87	-13.00	59.87
QPSK, Frequency: 1732.5 MHz								
3465.00	H	62.11	-50.01	10.39	1.15	-40.77	-13.00	27.77
3465.00	V	62.66	-49.42	10.39	1.15	-40.18	-13.00	27.18
5197.50	H	67.25	-42.08	11.32	1.44	-32.20	-13.00	19.20
5197.50	V	68.25	-40.93	11.32	1.44	-31.05	-13.00	18.05
830.80	H	35.51	-67.99	0.00	0.97	-68.96	-13.00	55.96
809.80	V	35.70	-71.75	0.00	0.94	-72.69	-13.00	59.69
QPSK, Frequency: 1754.3 MHz								
3508.60	H	66.44	-45.67	10.41	1.19	-36.45	-13.00	23.45
3508.60	V	67.62	-44.42	10.41	1.19	-35.20	-13.00	22.20
5262.90	H	66.04	-43.16	11.36	1.47	-33.27	-13.00	20.27
5262.90	V	65.71	-43.26	11.36	1.47	-33.37	-13.00	20.37
728.40	H	36.05	-70.14	0.00	0.94	-71.08	-13.00	58.08
864.50	V	36.49	-69.07	0.00	1.01	-70.08	-13.00	57.08

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	47.89	-70.63	8.68	0.80	-62.75	-13.00	49.75
1649.40	V	47.68	-70.92	8.68	0.80	-63.04	-13.00	50.04
2474.10	H	48.26	-66.58	9.38	1.00	-58.20	-13.00	45.20
2474.10	V	48.35	-66.44	9.38	1.00	-58.06	-13.00	45.06
3298.80	H	48.17	-62.97	10.32	1.15	-53.80	-13.00	40.80
3298.80	V	48.25	-62.65	10.32	1.15	-53.48	-13.00	40.48
668.00	H	36.02	-71.19	0.00	0.88	-72.07	-13.00	59.07
777.50	V	36.52	-71.66	0.00	0.93	-72.59	-13.00	59.59
QPSK, Frequency: 836.5 MHz								
1673.00	H	47.95	-70.54	8.71	0.85	-62.68	-13.00	49.68
1673.00	V	48.35	-70.24	8.71	0.85	-62.38	-13.00	49.38
2509.50	H	47.65	-67.01	9.42	1.01	-58.60	-13.00	45.60
2509.50	V	47.25	-67.42	9.42	1.01	-59.01	-13.00	46.01
3346.00	H	48.59	-63.00	10.34	1.16	-53.82	-13.00	40.82
3346.00	V	48.95	-62.50	10.34	1.16	-53.32	-13.00	40.32
728.40	H	35.83	-70.36	0.00	0.94	-71.30	-13.00	58.30
776.10	V	35.54	-72.66	0.00	0.93	-73.59	-13.00	60.59
QPSK, Frequency: 848.3 MHz								
1696.60	H	47.59	-70.87	8.74	0.89	-63.02	-13.00	50.02
1696.60	V	48.91	-69.68	8.74	0.89	-61.83	-13.00	48.83
2544.90	H	47.28	-67.11	9.47	1.01	-58.65	-13.00	45.65
2544.90	V	47.69	-66.65	9.47	1.01	-58.19	-13.00	45.19
3393.20	H	49.35	-62.71	10.36	1.19	-53.54	-13.00	40.54
3393.20	V	48.63	-63.40	10.36	1.19	-54.23	-13.00	41.23
555.70	H	36.59	-71.92	0.00	0.74	-72.66	-13.00	59.66
741.00	V	36.00	-72.80	0.00	0.94	-73.74	-13.00	60.74

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	59.76	-49.21	11.20	1.47	-39.48	-25.00	14.48
5005.00	V	55.88	-52.96	11.20	1.47	-43.23	-25.00	18.23
7507.50	H	64.29	-41.74	10.90	1.95	-32.79	-25.00	7.79
7507.50	V	64.69	-41.84	10.90	1.95	-32.89	-25.00	7.89
878.60	H	36.39	-66.30	0.00	1.02	-67.32	-25.00	42.32
760.70	V	35.52	-72.95	0.00	0.93	-73.88	-25.00	48.88
QPSK, Frequency: 2535 MHz								
5070.00	H	63.58	-45.19	11.24	1.47	-35.42	-25.00	10.42
5070.00	V	60.47	-48.20	11.24	1.47	-38.43	-25.00	13.43
7605.00	H	63.05	-43.01	10.88	2.01	-34.14	-25.00	9.14
7605.00	V	63.10	-43.67	10.88	2.01	-34.80	-25.00	9.80
854.70	H	35.43	-67.66	0.00	1.00	-68.66	-25.00	43.66
816.80	V	35.95	-71.26	0.00	0.95	-72.21	-25.00	47.21
QPSK, Frequency: 2567.5 MHz								
5135.00	H	61.88	-47.03	11.28	1.47	-37.22	-25.00	12.22
5135.00	V	58.32	-50.48	11.28	1.47	-40.67	-25.00	15.67
7702.50	H	64.99	-40.80	10.86	1.97	-31.91	-25.00	6.91
7702.50	V	68.96	-37.49	10.86	1.97	-28.60	-25.00	3.60
788.70	H	36.74	-67.63	0.00	0.93	-68.56	-25.00	43.56
659.60	V	36.95	-73.09	0.00	0.87	-73.96	-25.00	48.96

LTE Band 12(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: 699.7 MHz								
1399.40	H	50.58	-67.40	8.22	0.71	-59.89	-13.00	46.89
1399.40	V	52.86	-65.17	8.22	0.71	-57.66	-13.00	44.66
2099.10	H	51.73	-64.30	9.16	0.91	-56.05	-13.00	43.05
2099.10	V	52.28	-63.70	9.16	0.91	-55.45	-13.00	42.45
2798.80	H	59.48	-54.53	9.88	1.04	-45.69	-13.00	32.69
2798.80	V	56.35	-57.53	9.88	1.04	-48.69	-13.00	35.69
894.00	H	35.88	-66.54	0.00	1.04	-67.58	-13.00	54.58
604.80	V	36.05	-74.71	0.00	0.77	-75.48	-13.00	62.48
QPSK, Frequency:707.5 MHz								
1415.00	H	52.75	-65.19	8.26	0.72	-57.65	-13.00	44.65
1415.00	V	54.71	-63.28	8.26	0.72	-55.74	-13.00	42.74
2122.50	H	51.89	-64.25	9.17	0.92	-56.00	-13.00	43.00
2122.50	V	51.29	-64.83	9.17	0.92	-56.58	-13.00	43.58
2830.00	H	50.96	-62.95	9.93	1.06	-54.08	-13.00	41.08
2830.00	V	50.89	-62.96	9.93	1.06	-54.09	-13.00	41.09
843.50	H	35.61	-67.68	0.00	0.98	-68.66	-13.00	55.66
635.70	V	35.72	-74.63	0.00	0.82	-75.45	-13.00	62.45
QPSK, Frequency:715.3 MHz								
1430.60	H	54.48	-63.41	8.31	0.73	-55.83	-13.00	42.83
1430.60	V	54.93	-63.02	8.31	0.73	-55.44	-13.00	42.44
2145.90	H	47.65	-68.60	9.19	0.93	-60.34	-13.00	47.34
2145.90	V	52.07	-64.19	9.19	0.93	-55.93	-13.00	42.93
2861.20	H	58.95	-54.86	9.98	1.07	-45.95	-13.00	32.95
2861.20	V	58.12	-55.70	9.98	1.07	-46.79	-13.00	33.79
618.90	H	36.37	-71.09	0.00	0.79	-71.88	-13.00	58.88
832.50	V	36.01	-70.66	0.00	0.97	-71.63	-13.00	58.63

LTE Band 13(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: 779.5 MHz								
1559.00	H	48.65	-69.55	8.57	0.80	-61.78	-40.00	21.78
1559.00	V	50.77	-67.49	8.57	0.80	-59.72	-40.00	19.72
2338.50	H	48.77	-66.94	9.30	0.97	-58.61	-13.00	45.61
2338.50	V	49.65	-65.83	9.30	0.97	-57.50	-13.00	44.50
3118.00	H	49.53	-62.35	10.25	1.13	-53.23	-13.00	40.23
3118.00	V	50.14	-61.60	10.25	1.13	-52.48	-13.00	39.48
637.10	H	35.38	-71.99	0.00	0.83	-72.82	-13.00	59.82
680.60	V	35.79	-73.97	0.00	0.91	-74.88	-13.00	61.88
QPSK, Frequency:782 MHz								
1564.00	H	48.69	-69.56	8.58	0.80	-61.78	-40.00	21.78
1564.00	V	50.62	-67.68	8.58	0.80	-59.90	-40.00	19.90
2346.00	H	51.44	-64.20	9.31	0.97	-55.86	-13.00	42.86
2346.00	V	51.91	-63.50	9.31	0.97	-55.16	-13.00	42.16
3128.00	H	49.16	-62.70	10.25	1.13	-53.58	-13.00	40.58
3128.00	V	49.65	-62.05	10.25	1.13	-52.93	-13.00	39.93
635.50	H	36.32	-71.06	0.00	0.82	-71.88	-13.00	58.88
652.30	V	35.21	-74.92	0.00	0.85	-75.77	-13.00	62.77
QPSK, Frequency:784.5 MHz								
1569.00	H	48.65	-69.64	8.58	0.81	-61.87	-40.00	21.87
1569.00	V	48.97	-69.37	8.58	0.81	-61.60	-40.00	21.60
2353.50	H	50.31	-65.26	9.31	0.97	-56.92	-13.00	43.92
2353.50	V	51.06	-64.28	9.31	0.97	-55.94	-13.00	42.94
3138.00	H	48.65	-63.18	10.26	1.14	-54.06	-13.00	41.06
3138.00	V	49.57	-62.09	10.26	1.14	-52.97	-13.00	39.97
666.60	H	35.71	-71.50	0.00	0.88	-72.38	-13.00	59.38
627.30	V	35.64	-74.82	0.00	0.81	-75.63	-13.00	62.63

LTE Band 17(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: 706.5 MHz								
1413.00	H	50.16	-67.79	8.26	0.72	-60.25	-13.00	47.25
1413.00	V	48.27	-69.73	8.26	0.72	-62.19	-13.00	49.19
2119.50	H	48.63	-67.49	9.17	0.92	-59.24	-13.00	46.24
2119.50	V	50.23	-65.87	9.17	0.92	-57.62	-13.00	44.62
2826.00	H	55.21	-58.71	9.92	1.06	-49.85	-13.00	36.85
2826.00	V	51.54	-62.31	9.92	1.06	-53.45	-13.00	40.45
579.60	H	35.85	-72.15	0.00	0.75	-72.90	-13.00	59.90
509.40	V	36.72	-75.84	0.00	0.71	-76.55	-13.00	63.55
QPSK, Frequency:710 MHz								
1420.00	H	49.35	-68.58	8.28	0.73	-61.03	-13.00	48.03
1420.00	V	49.36	-68.62	8.28	0.73	-61.07	-13.00	48.07
2130.00	H	49.52	-66.65	9.18	0.92	-58.39	-13.00	45.39
2130.00	V	48.27	-67.90	9.18	0.92	-59.64	-13.00	46.64
2840.00	H	53.39	-60.49	9.94	1.06	-51.61	-13.00	38.61
2840.00	V	48.65	-65.19	9.94	1.06	-56.31	-13.00	43.31
606.20	H	36.10	-71.43	0.00	0.77	-72.20	-13.00	59.20
632.90	V	36.07	-74.32	0.00	0.82	-75.14	-13.00	62.14
QPSK, Frequency:713.5 MHz								
1427.00	H	51.87	-66.03	8.30	0.73	-58.46	-13.00	45.46
1427.00	V	53.98	-63.98	8.30	0.73	-56.41	-13.00	43.41
2140.50	H	48.57	-67.65	9.18	0.93	-59.40	-13.00	46.40
2140.50	V	50.31	-65.92	9.18	0.93	-57.67	-13.00	44.67
2854.00	H	56.32	-57.51	9.97	1.07	-48.61	-13.00	35.61
2854.00	V	52.98	-60.85	9.97	1.07	-51.95	-13.00	38.95
574.00	H	35.77	-72.35	0.00	0.75	-73.10	-13.00	60.10
565.50	V	35.86	-75.62	0.00	0.74	-76.36	-13.00	63.36

LTE Band 26(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: 814.7MHz								
1629.40	H	56.96	-61.58	8.66	0.81	-53.73	-13.00	40.73
1629.40	V	57.87	-60.73	8.66	0.81	-52.88	-13.00	39.88
2444.10	H	63.84	-51.12	9.37	1.00	-42.75	-13.00	29.75
2444.10	V	59.16	-55.67	9.37	1.00	-47.30	-13.00	34.30
3258.80	H	49.33	-62.03	10.30	1.17	-52.90	-13.00	39.90
3258.80	V	50.93	-60.19	10.30	1.17	-51.06	-13.00	38.06
707.30	H	35.64	-71.18	0.00	0.94	-72.12	-13.00	59.12
937.50	V	35.25	-67.15	0.00	0.93	-68.08	-13.00	55.08
QPSK, Frequency: 831.5 MHz								
1663.00	H	56.61	-61.89	8.70	0.83	-54.02	-13.00	41.02
1663.00	V	49.18	-69.41	8.70	0.83	-61.54	-13.00	48.54
2494.50	H	60.07	-54.68	9.40	1.01	-46.29	-13.00	33.29
2494.50	V	59.36	-55.41	9.40	1.01	-47.02	-13.00	34.02
3326.00	H	48.95	-62.44	10.33	1.16	-53.27	-13.00	40.27
3326.00	V	51.24	-59.97	10.33	1.16	-50.80	-13.00	37.80
728.40	H	35.79	-70.40	0.00	0.94	-71.34	-13.00	58.34
741.00	V	35.80	-73.00	0.00	0.94	-73.94	-13.00	60.94
QPSK, Frequency: 848.3 MHz								
1696.60	H	55.08	-63.38	8.74	0.89	-55.53	-13.00	42.53
1696.60	V	57.89	-60.70	8.74	0.89	-52.85	-13.00	39.85
2544.90	H	57.97	-56.42	9.47	1.01	-47.96	-13.00	34.96
2544.90	V	54.01	-60.33	9.47	1.01	-51.87	-13.00	38.87
3393.20	H	48.65	-63.41	10.36	1.19	-54.24	-13.00	41.24
3393.20	V	48.27	-63.76	10.36	1.19	-54.59	-13.00	41.59
784.50	H	36.09	-68.41	0.00	0.93	-69.34	-13.00	56.34
746.60	V	35.74	-72.97	0.00	0.94	-73.91	-13.00	60.91

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	62.51	-46.47	11.29	1.44	-36.62	-25.00	11.62
5145.00	V	65.03	-43.83	11.29	1.44	-33.98	-25.00	8.98
7717.50	H	59.03	-46.75	10.86	1.99	-37.88	-25.00	12.88
7717.50	V	60.73	-45.68	10.86	1.99	-36.81	-25.00	11.81
743.80	H	36.27	-69.45	0.00	0.94	-70.39	-25.00	45.39
836.50	V	36.21	-70.32	0.00	0.97	-71.29	-25.00	46.29
QPSK, Frequency: 2595 MHz								
5190.00	H	62.45	-46.83	11.31	1.44	-36.96	-25.00	11.96
5190.00	V	64.84	-44.30	11.31	1.44	-34.43	-25.00	9.43
7785.00	H	58.50	-47.26	10.84	1.99	-38.41	-25.00	13.41
7785.00	V	60.01	-46.19	10.84	1.99	-37.34	-25.00	12.34
858.90	H	35.69	-67.33	0.00	1.00	-68.33	-25.00	43.33
746.60	V	36.20	-72.51	0.00	0.94	-73.45	-25.00	48.45
QPSK, Frequency: 2617.5 MHz								
5235.00	H	62.11	-47.16	11.34	1.46	-37.28	-25.00	12.28
5235.00	V	64.48	-44.59	11.34	1.46	-34.71	-25.00	9.71
7852.50	H	57.97	-47.76	10.83	2.03	-38.96	-25.00	13.96
7852.50	V	59.49	-46.63	10.83	2.03	-37.83	-25.00	12.83
823.80	H	35.50	-68.12	0.00	0.96	-69.08	-25.00	44.08
898.20	V	35.55	-68.84	0.00	1.05	-69.89	-25.00	44.89

LTE Band 40 Lower(30MHz-25GHz):

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: 2307.5 MHz								
4615.00	H	46.25	-64.47	10.74	1.41	-55.14	-40.00	15.14
4615.00	V	48.88	-61.70	10.74	1.41	-52.37	-40.00	12.37
6922.50	H	46.48	-60.48	11.22	1.88	-51.14	-40.00	11.14
6922.50	V	47.31	-59.52	11.22	1.88	-50.18	-40.00	10.18
839.30	H	35.36	-68.00	0.00	0.98	-68.98	-40.00	28.98
844.90	V	35.54	-70.70	0.00	0.98	-71.68	-40.00	31.68
QPSK, Frequency: 2310 MHz								
4620.00	H	46.11	-64.58	10.74	1.41	-55.25	-40.00	15.25
4620.00	V	48.11	-62.45	10.74	1.41	-53.12	-40.00	13.12
6930.00	H	46.35	-60.62	11.21	1.89	-51.30	-40.00	11.30
6930.00	V	47.02	-59.81	11.21	1.89	-50.49	-40.00	10.49
846.50	H	35.21	-68.02	0.00	0.99	-69.01	-40.00	29.01
845.20	V	35.69	-70.54	0.00	0.98	-71.52	-40.00	31.52
QPSK, Frequency: 2312.5 MHz								
4625.00	H	46.37	-64.28	10.75	1.41	-54.94	-40.00	14.94
4625.00	V	48.23	-62.30	10.75	1.41	-52.96	-40.00	12.96
6937.50	H	45.94	-61.03	11.21	1.90	-51.72	-40.00	11.72
6937.50	V	46.60	-60.24	11.21	1.90	-50.93	-40.00	10.93
690.50	H	35.83	-71.26	0.00	0.92	-72.18	-40.00	32.18
731.20	V	35.97	-73.00	0.00	0.94	-73.94	-40.00	33.94

LTE Band 40 Upper(30MHz-25GHz):

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: 2352.5 MHz								
4705.00	H	46.05	-64.03	10.85	1.41	-54.59	-40.00	14.59
4705.00	V	48.26	-61.84	10.85	1.41	-52.40	-40.00	12.40
7057.50	H	43.95	-62.38	11.17	1.92	-53.13	-40.00	13.13
7057.50	V	45.02	-61.21	11.17	1.92	-51.96	-40.00	11.96
882.80	H	35.39	-67.22	0.00	1.03	-68.25	-40.00	28.25
718.50	V	36.21	-72.98	0.00	0.94	-73.92	-40.00	33.92
QPSK, Frequency: 2355 MHz								
4710.00	H	47.56	-62.49	10.85	1.41	-53.05	-40.00	13.05
4710.00	V	48.80	-61.25	10.85	1.41	-51.81	-40.00	11.81
7065.00	H	44.91	-61.33	11.16	1.92	-52.09	-40.00	12.09
7065.00	V	46.73	-59.42	11.16	1.92	-50.18	-40.00	10.18
846.37	H	35.96	-67.28	0.00	0.99	-68.27	-40.00	28.27
720.89	V	36.64	-72.51	0.00	0.94	-73.45	-40.00	33.45
QPSK, Frequency: 2357.5 MHz								
4715.00	H	46.02	-64.00	10.86	1.41	-54.55	-40.00	14.55
4715.00	V	48.27	-61.74	10.86	1.41	-52.29	-40.00	12.29
7072.50	H	43.92	-62.23	11.16	1.91	-52.98	-40.00	12.98
7072.50	V	45.90	-60.16	11.16	1.91	-50.91	-40.00	10.91
804.20	H	35.51	-68.45	0.00	0.94	-69.39	-40.00	29.39
795.80	V	35.91	-71.95	0.00	0.93	-72.88	-40.00	32.88

LTE Band 41(30MHz-27GHz):

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)			
QPSK, Frequency: 2498.5 MHz								
4997.00	H	62.26	-46.72	11.20	1.48	-37.00	-25.00	12.00
4997.00	V	62.75	-46.10	11.20	1.48	-36.38	-25.00	11.38
7495.50	H	64.38	-41.62	10.90	1.94	-32.66	-25.00	7.66
7495.50	V	62.95	-43.54	10.90	1.94	-34.58	-25.00	9.58
662.40	H	36.08	-71.16	0.00	0.87	-72.03	-25.00	47.03
781.00	V	35.86	-72.26	0.00	0.93	-73.19	-25.00	48.19
QPSK, Frequency:2593 MHz								
5186.00	H	64.83	-44.43	11.31	1.44	-34.56	-25.00	9.56
5186.00	V	63.47	-45.64	11.31	1.44	-35.77	-25.00	10.77
7779.00	H	63.58	-42.19	10.84	1.99	-33.34	-25.00	8.34
7779.00	V	61.42	-44.80	10.84	1.99	-35.95	-25.00	10.95
778.90	H	35.69	-68.98	0.00	0.93	-69.91	-25.00	44.91
682.00	V	35.74	-74.01	0.00	0.91	-74.92	-25.00	49.92
QPSK, Frequency: 2687.5 MHz								
5375.00	H	62.10	-47.22	11.43	1.49	-37.28	-25.00	12.28
5375.00	V	61.44	-47.87	11.43	1.49	-37.93	-25.00	12.93
8062.50	H	60.22	-45.08	10.81	2.12	-36.39	-25.00	11.39
8062.50	V	59.42	-46.38	10.81	2.12	-37.69	-25.00	12.69
748.00	H	35.67	-69.93	0.00	0.94	-70.87	-25.00	45.87
745.20	V	35.89	-72.84	0.00	0.94	-73.78	-25.00	48.78

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 + Antenna Gain
- 3) Margin = Limit-Absolute Level

FCC §22.917(a) & §24.238(a) & §27.53 & §90.691 - BAND EDGES

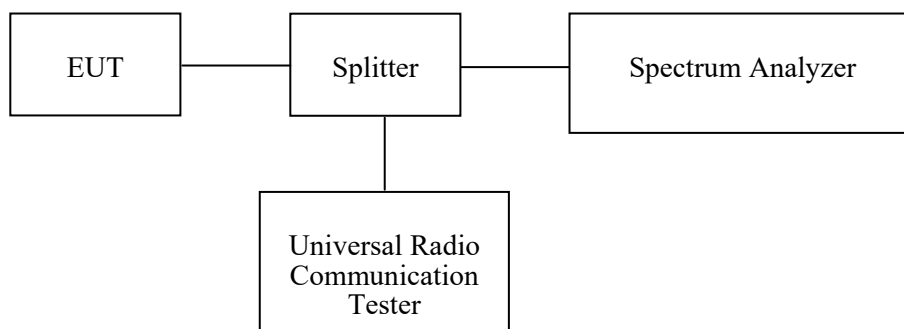
Applicable Standard

FCC § 2.1053, §22.917, § 24.238, § 27.53 and §90.691

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2021-07-07	2022-07-07
R&S	Spectrum Analyzer	FSV40	101474	2021-01-09	2022-01-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	Each Time	N/A
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

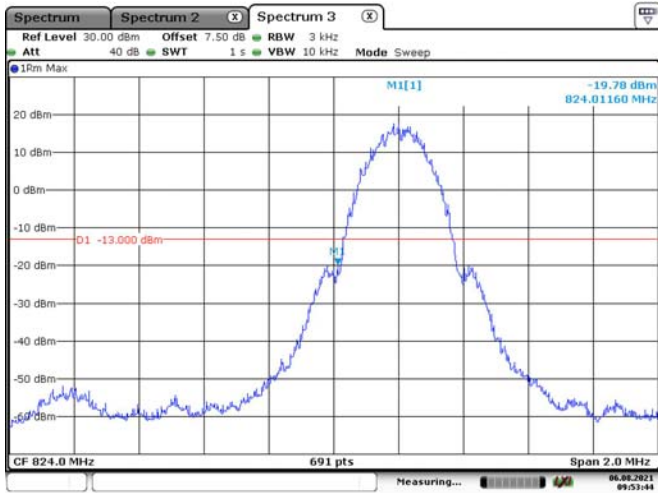
Environmental Conditions

Temperature:	26.7~29.8 °C
Relative Humidity:	46~62 %
ATM Pressure:	99.3~100.7 kPa
Tester:	Lay Lei
Test Date:	2021-08-03~2021-08-20

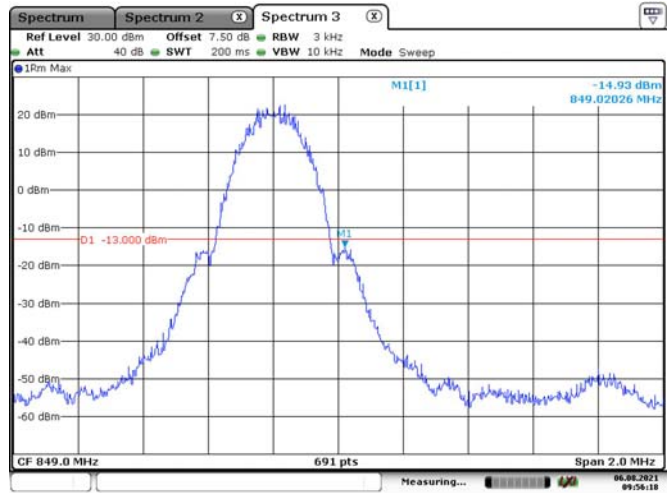
Test Mode: Transmitting

Test Result: Compliance. Please refer to the following plots.

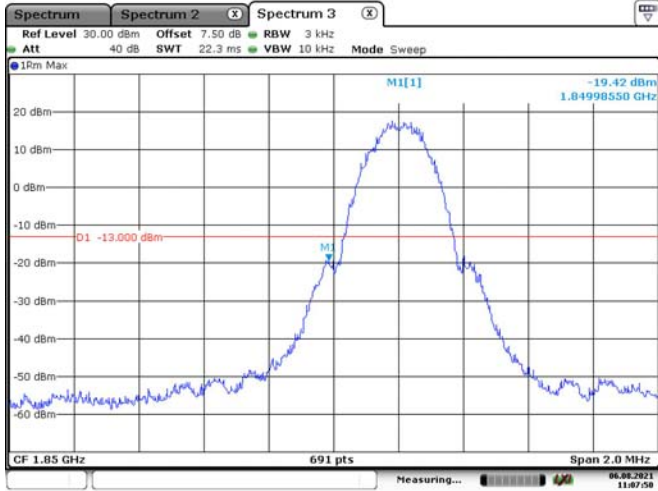
GPRS 850, Left Band Edge



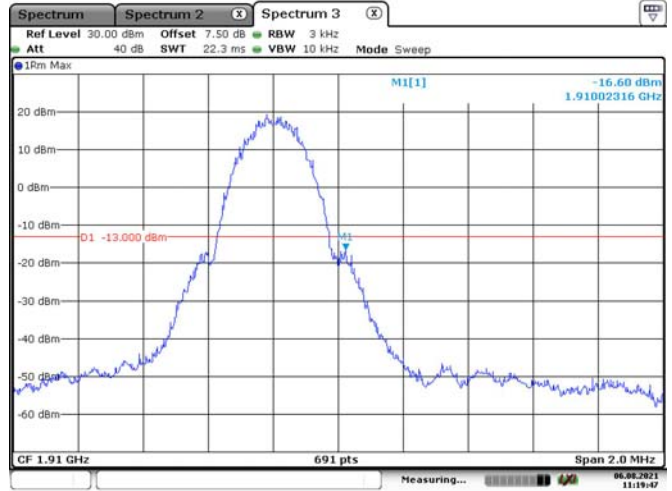
GPRS 850, Right Band Edge



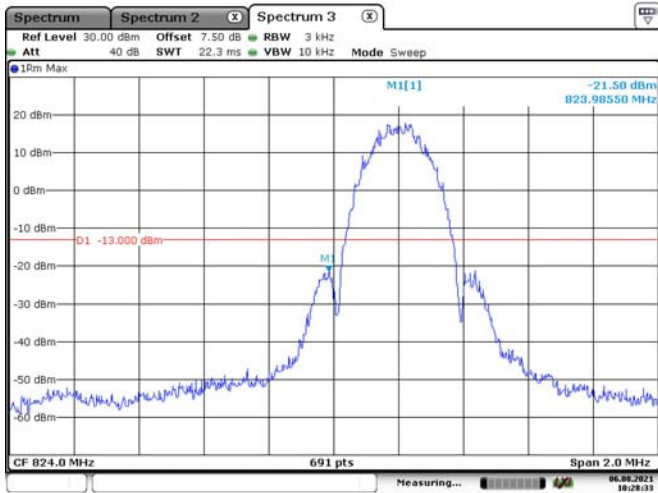
GPRS 1900, Left Band Edge



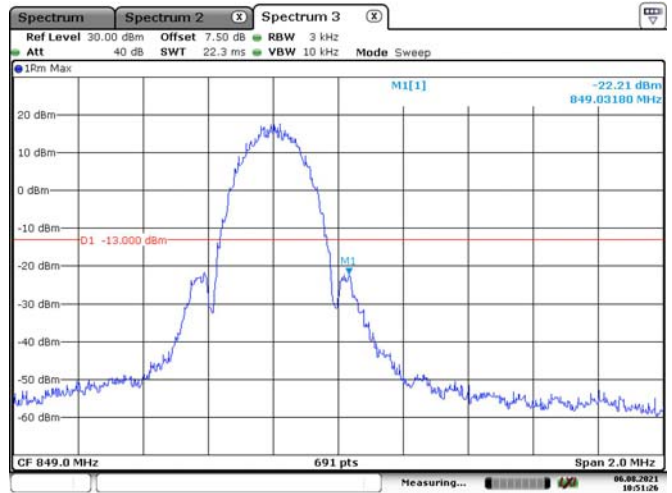
GPRS 1900, Right Band Edge



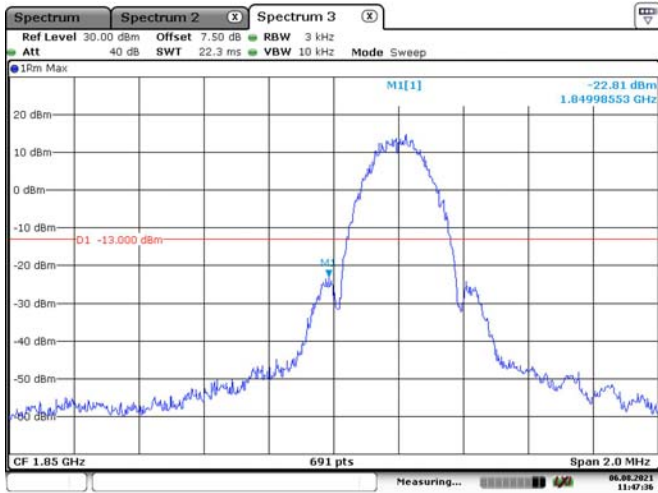
EGPRS 850, Left Band Edge



EGPRS 850, Right Band Edge

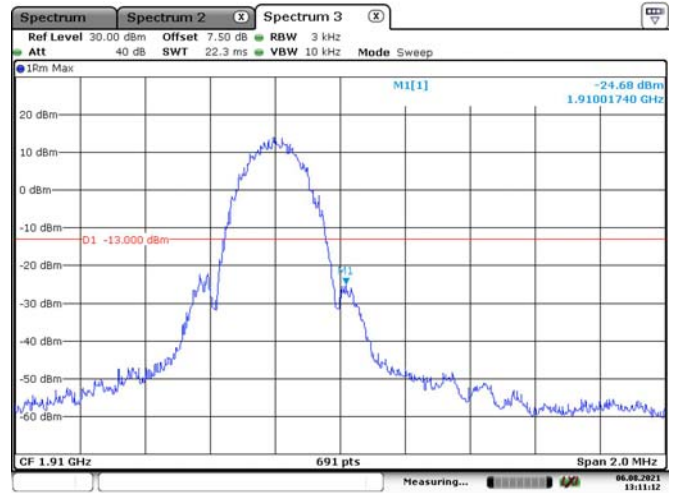


EGPRS 1900, Left Band Edge



Date: 6.AUG.2021 11:47:36

EGPRS 1900, Right Band Edge

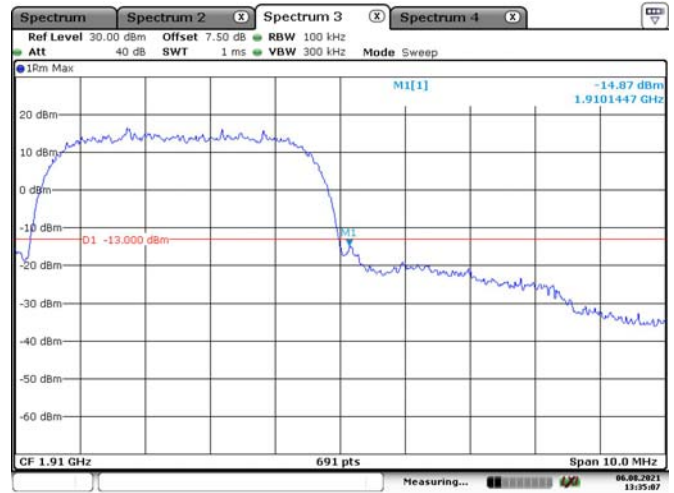


Date: 6.AUG.2021 13:11:12

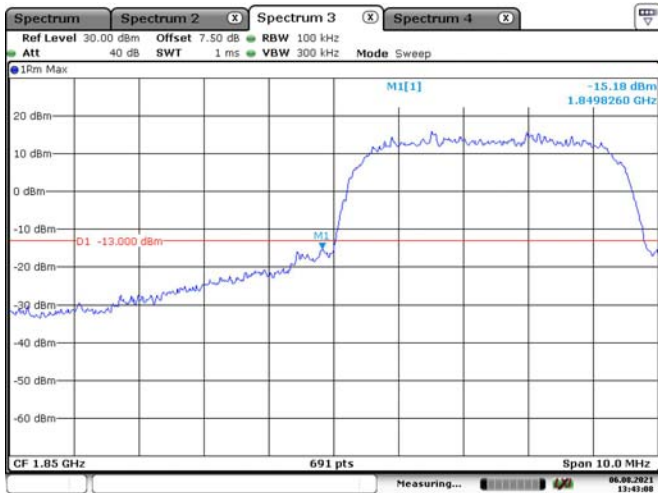
WCDMA Band II,Rel99, Left Band Edge



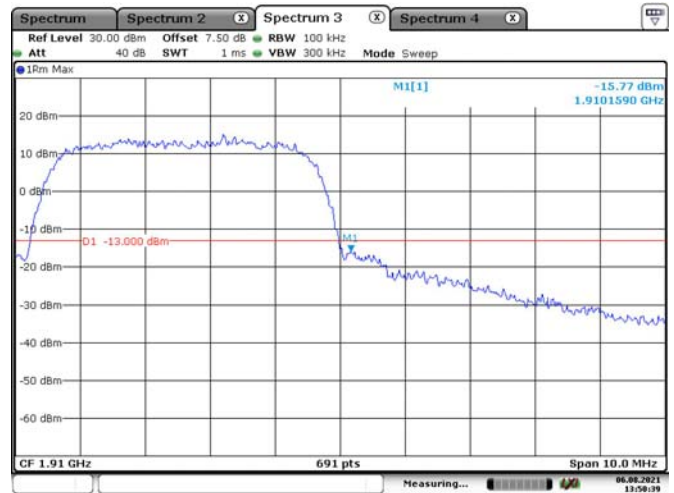
WCDMA Band II,Rel99, Right Band Edge



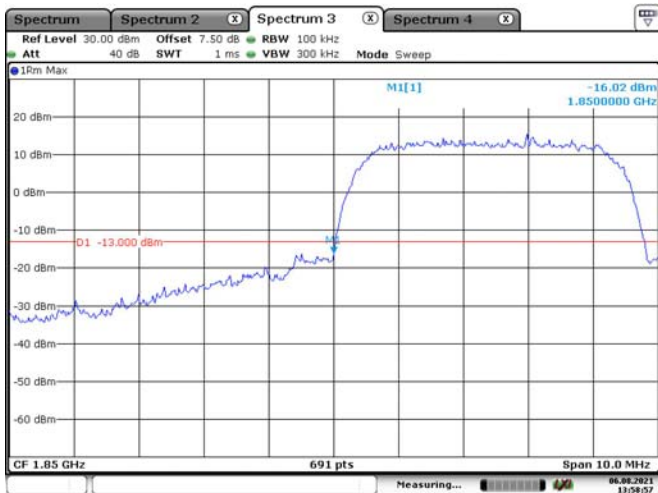
WCDMA Band II,HSDPA, Left Band Edge



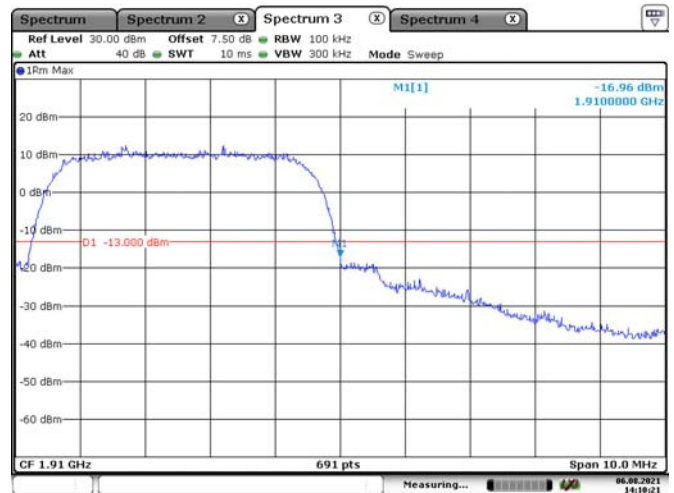
WCDMA Band II,HSDPA,Right Band Edge



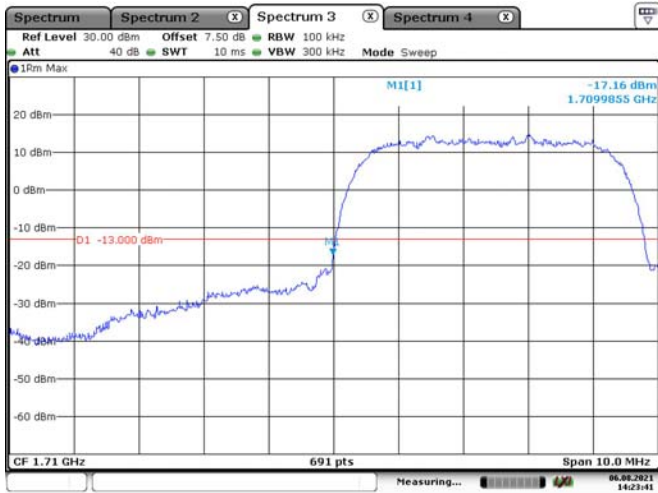
WCDMA Band II,HSUPA, Left Band Edge



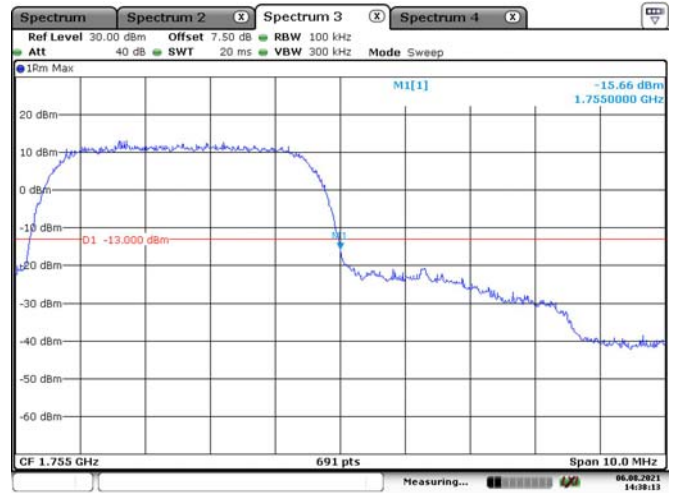
WCDMA Band II,HSUPA, Right Band Edge



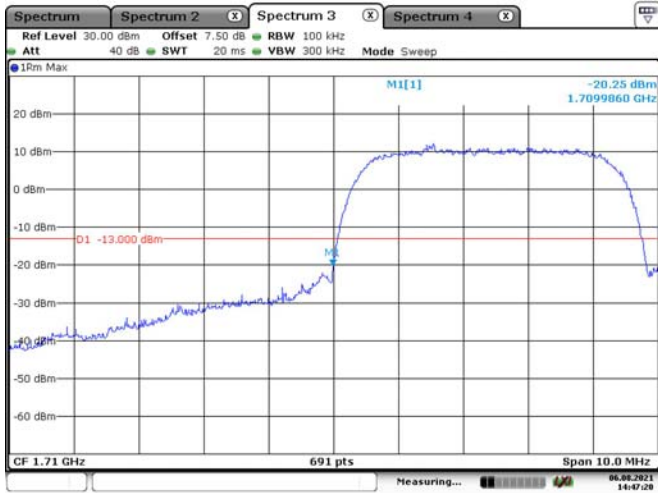
WCDMA Band IV,Rel99, Left Band Edge



WCDMA Band IV,Rel99, Right Band Edge



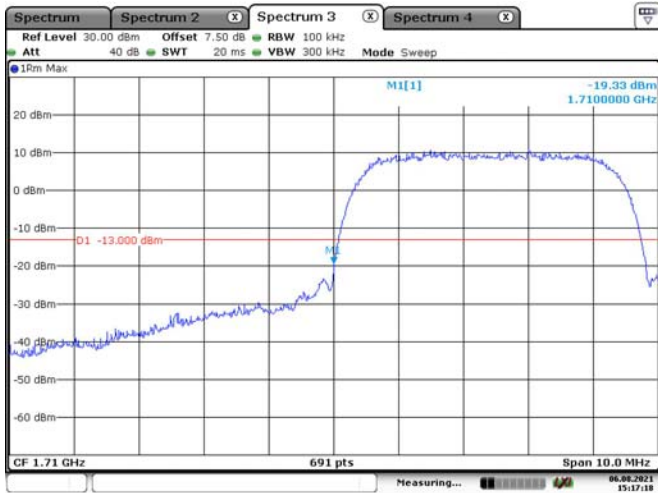
WCDMA Band IV,HSDPA, Left Band Edge



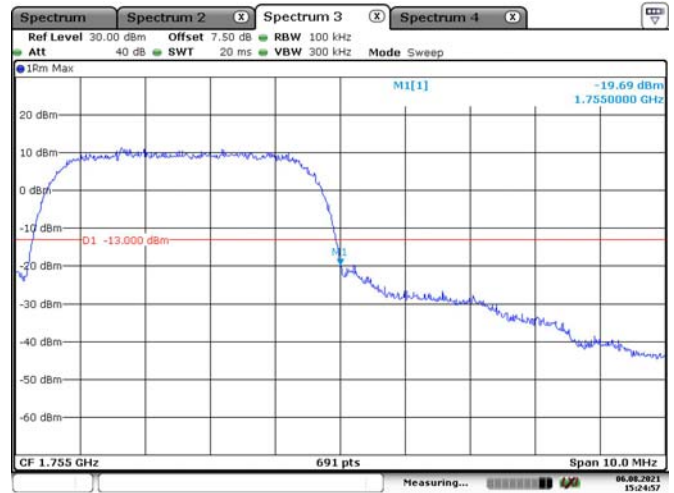
WCDMA Band IV,HSDPA,Right Band Edge



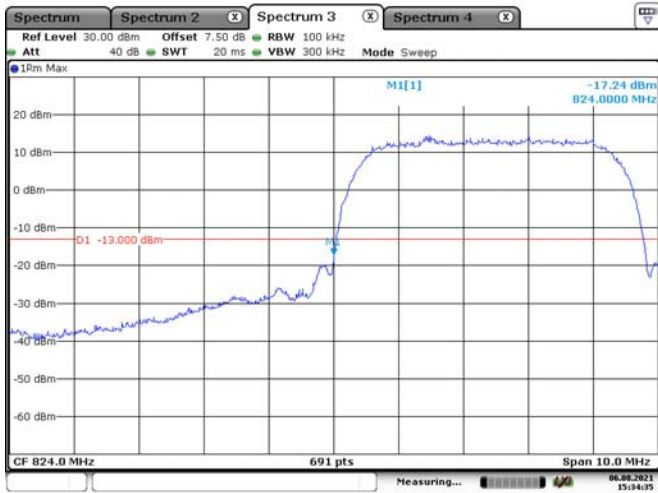
WCDMA Band IV,HSUPA, Left Band Edge



WCDMA Band IV,HSUPA, Right Band Edge



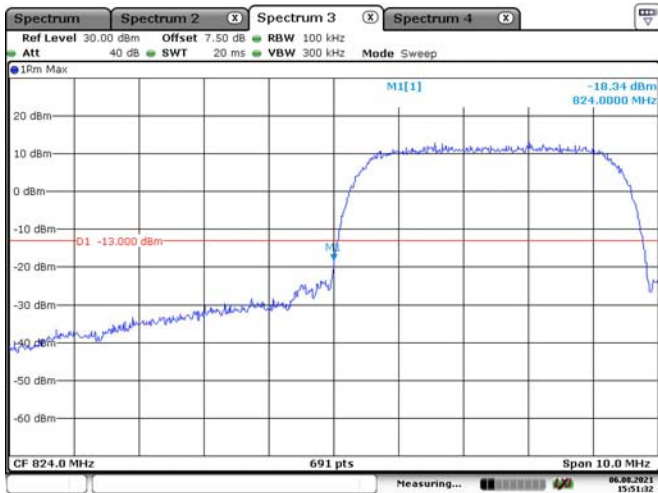
WCDMA Band V,Rel99, Left Band Edge



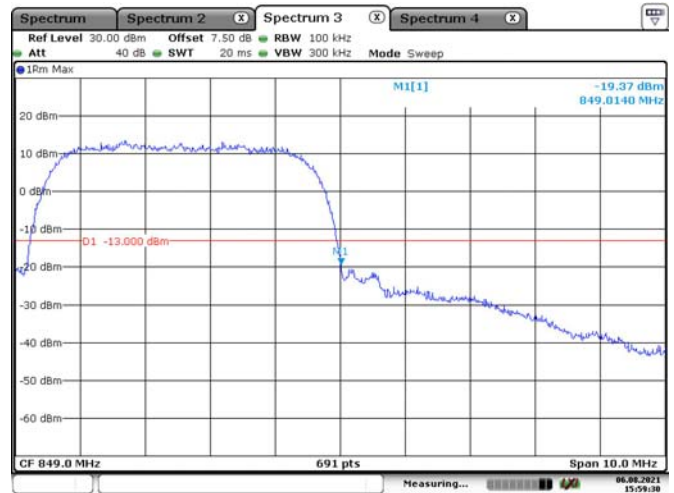
WCDMA Band V,Rel99, Right Band Edge



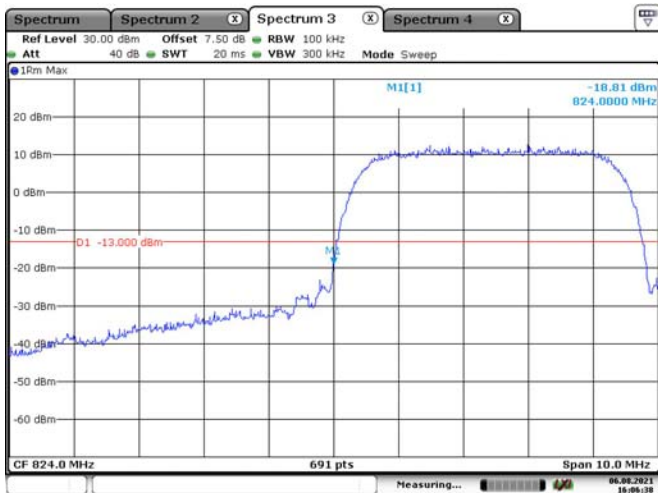
WCDMA Band V,HSDPA, Left Band Edge



WCDMA Band V,HSDPA,Right Band Edge



WCDMA Band V,HSUPA, Left Band Edge



WCDMA Band V,HSUPA, Right Band Edge

