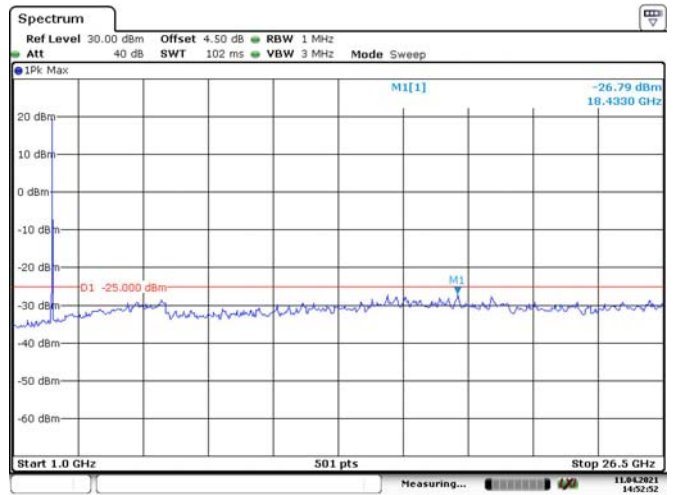
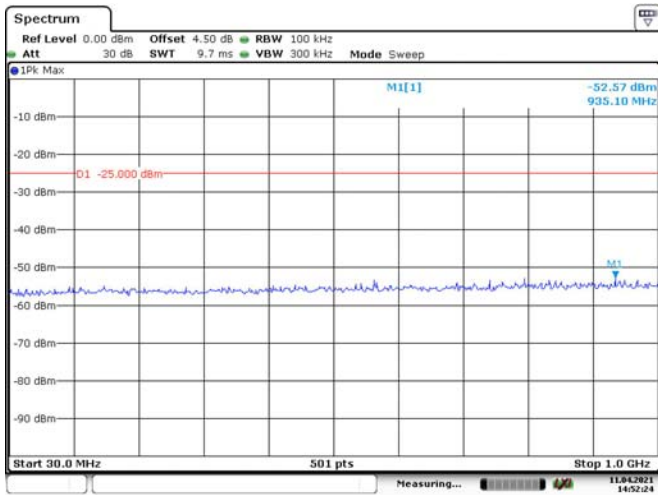
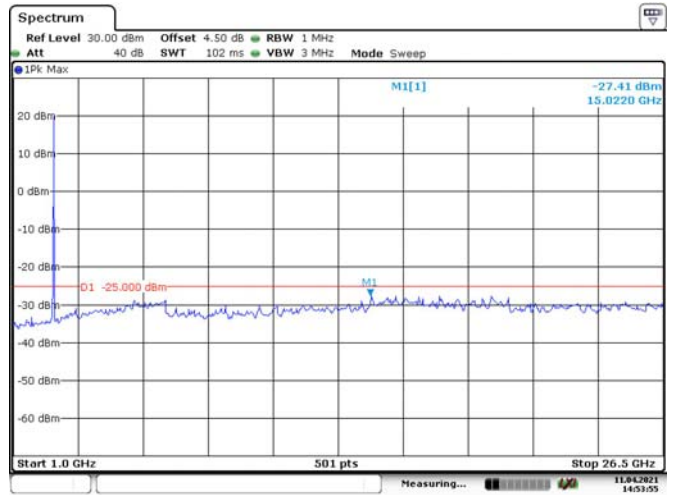
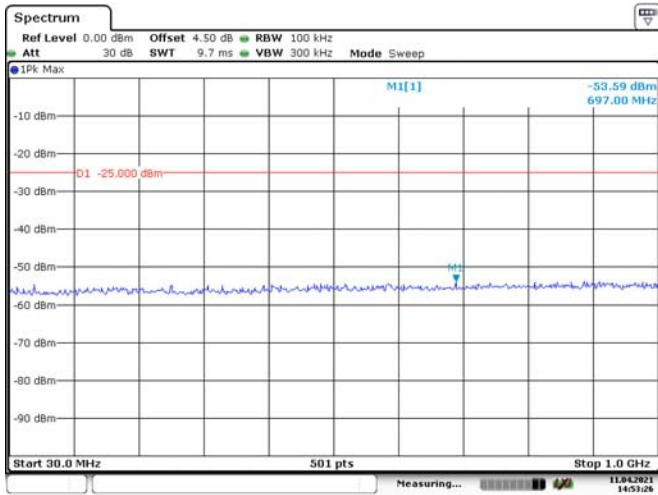


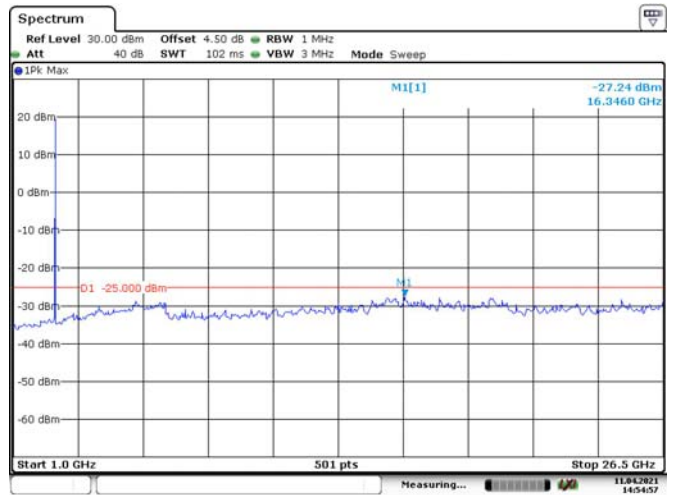
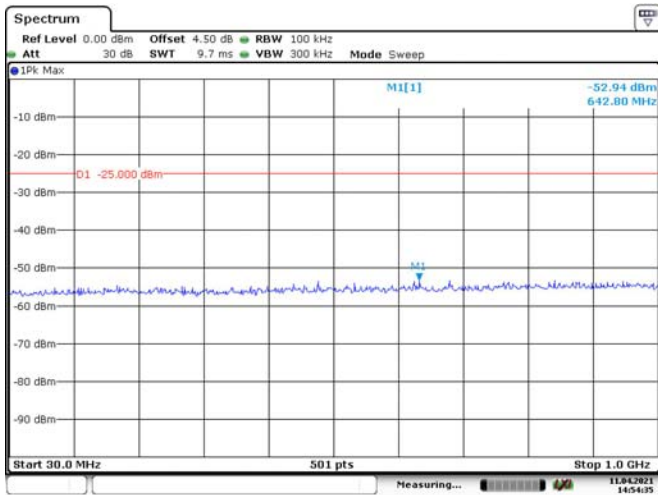
### 10M, QPSK, Low Channel



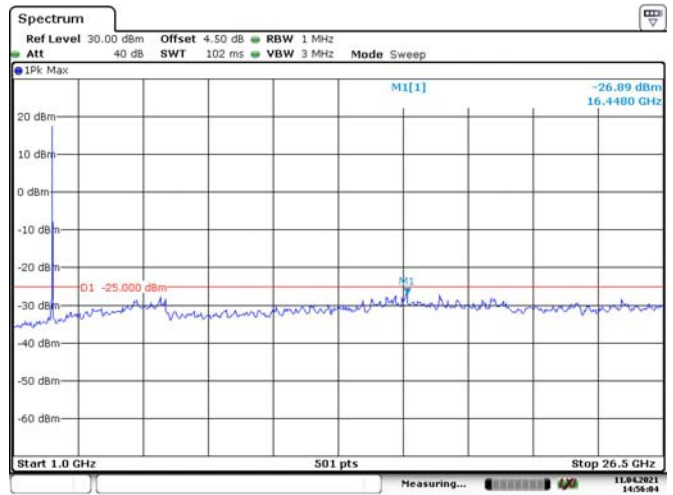
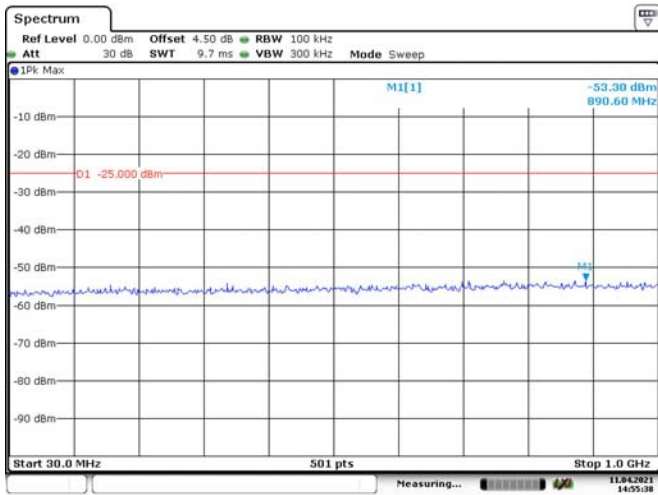
### 10M, QPSK, Middle Channel



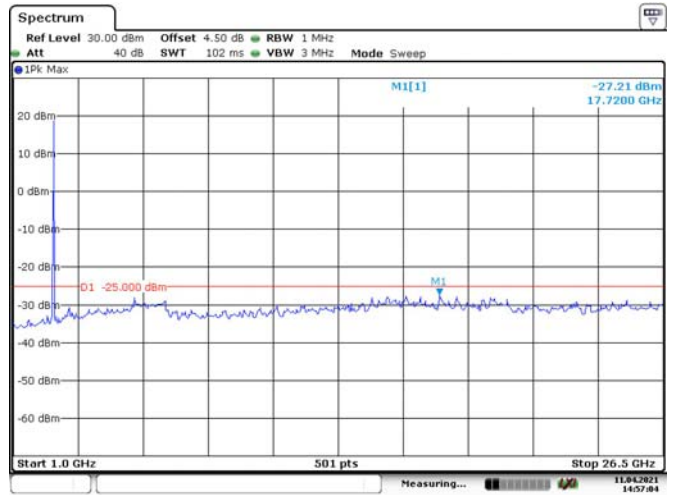
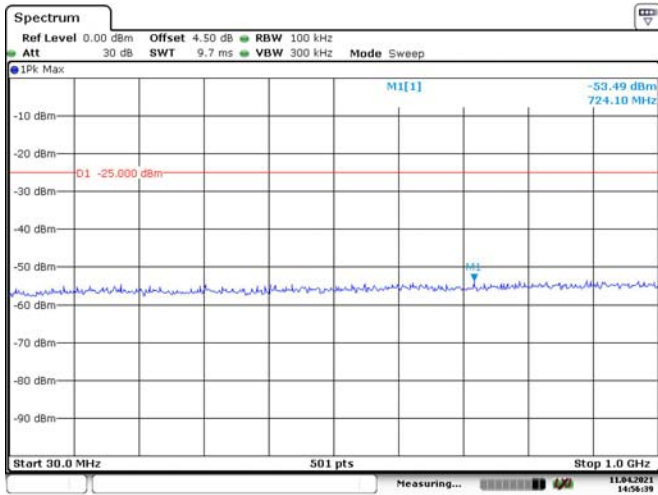
### 10M, QPSK, High Channel



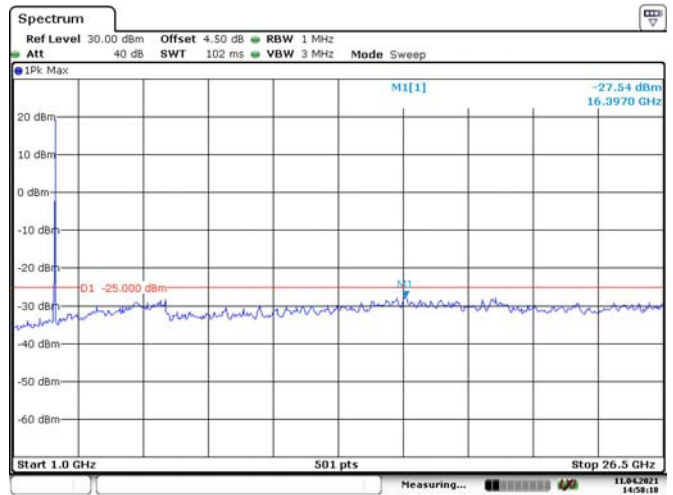
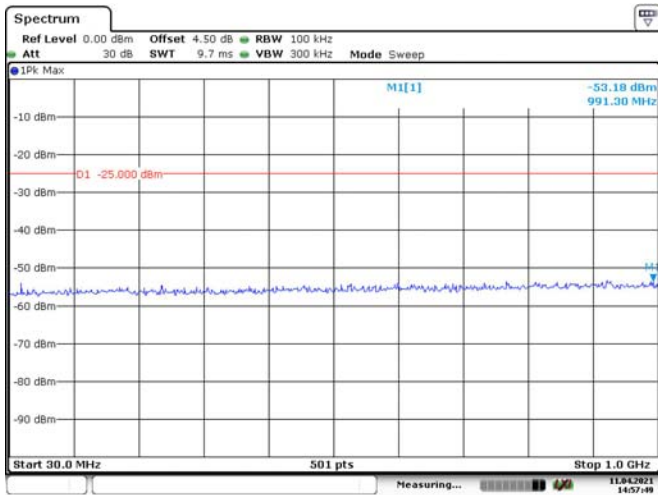
### 15M, QPSK, Low Channel



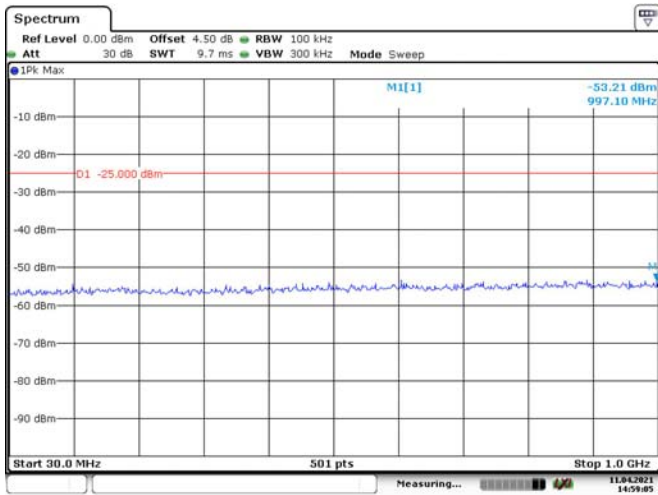
### 15M, QPSK, Middle Channel



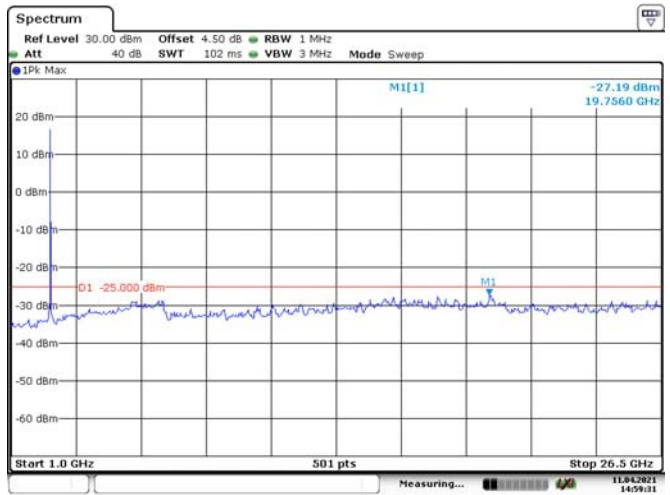
### 15M, QPSK, High Channel



### 20M, QPSK, Low Channel

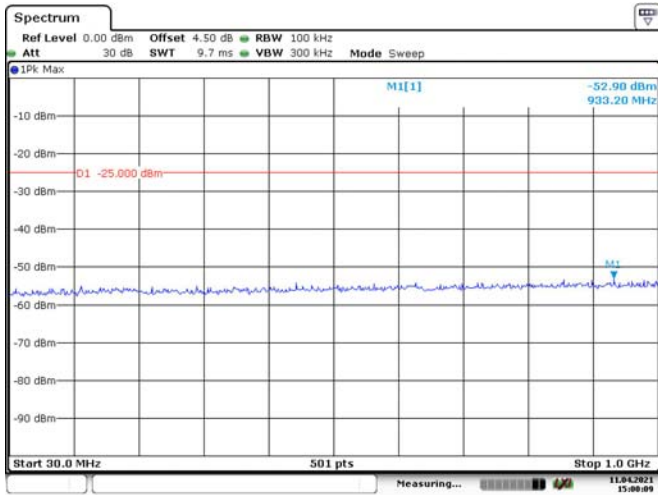


Date: 11.APR.2021 14:59:06

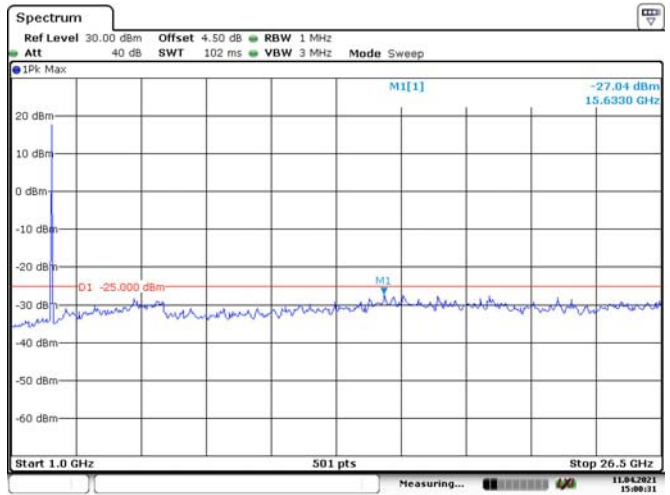


Date: 11.APR.2021 14:59:31

### 20M, QPSK, Middle Channel

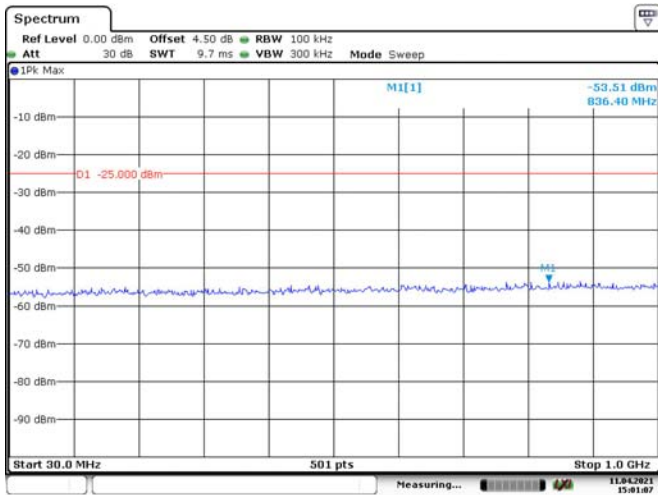


Date: 11.APR.2021 15:00:09

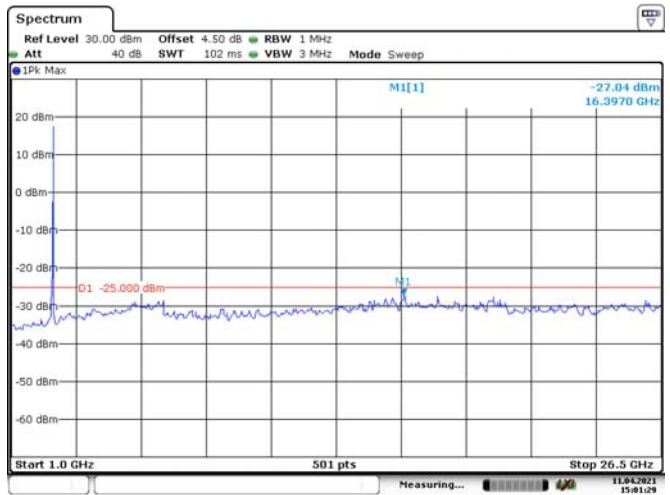


Date: 11.APR.2021 15:00:31

### 20M, QPSK, High Channel



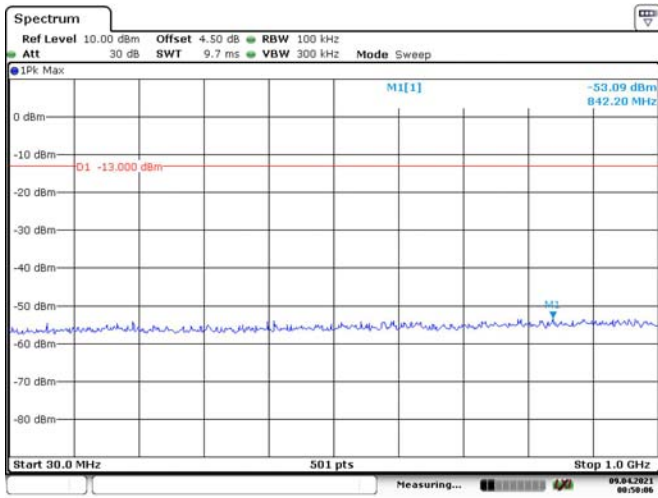
Date: 11.APR.2021 15:01:07



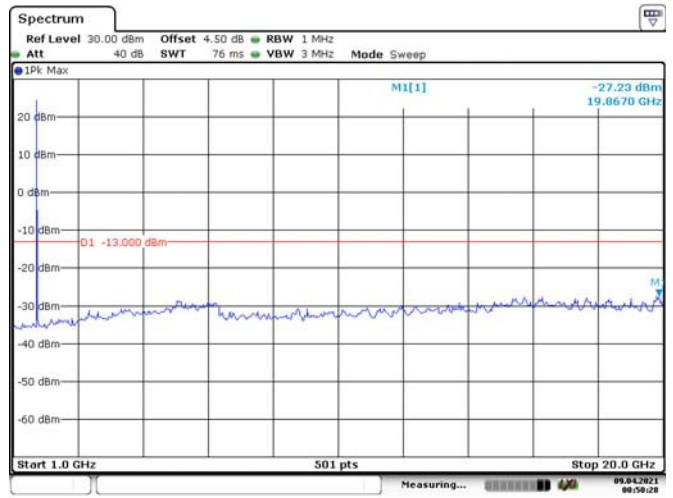
Date: 11.APR.2021 15:01:29

LTE Band 66:

1.4M, QPSK, Low Channel

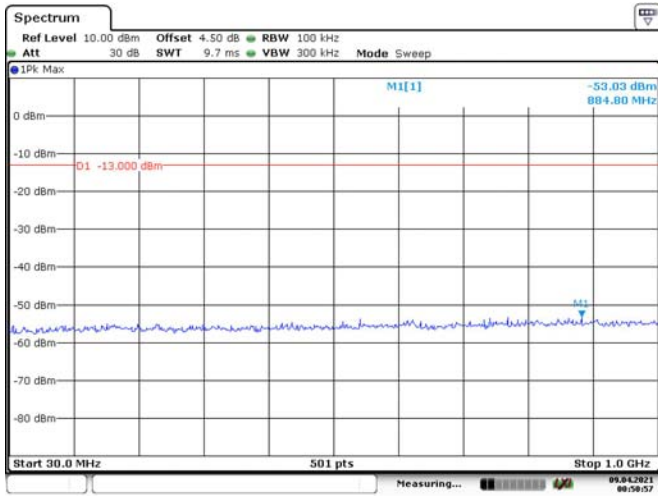


Date: 9.APR.2021 00:50:07

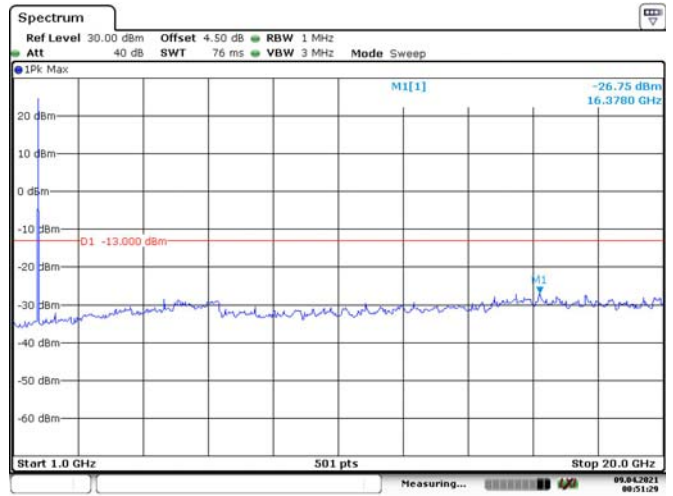


Date: 9.APR.2021 00:50:29

1.4M, QPSK, Middle Channel

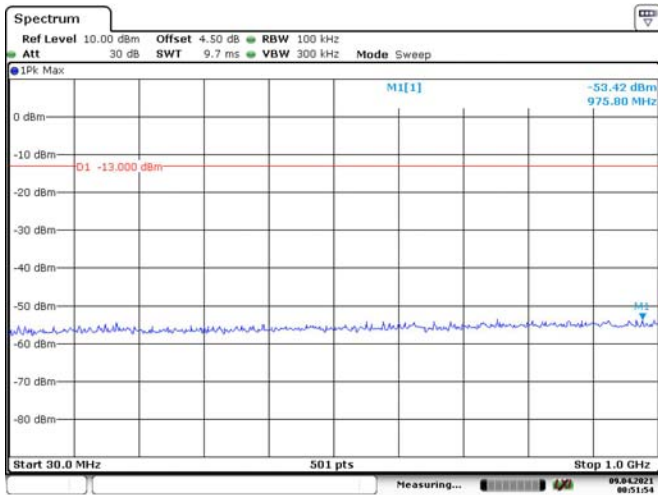


Date: 9.APR.2021 00:50:58

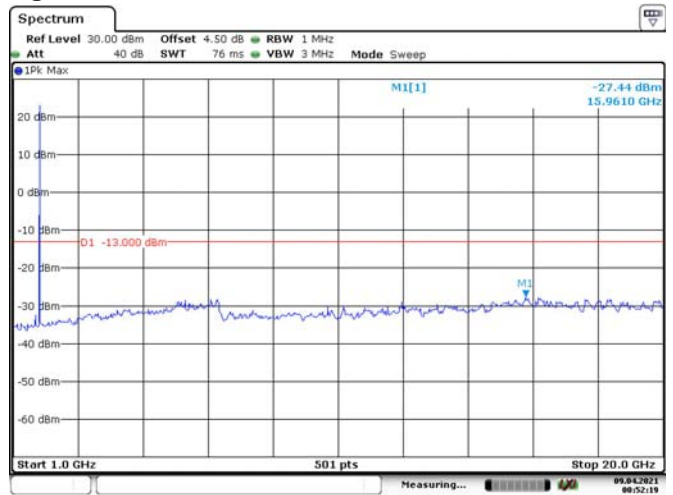


Date: 9.APR.2021 00:51:29

1.4M, QPSK, High Channel

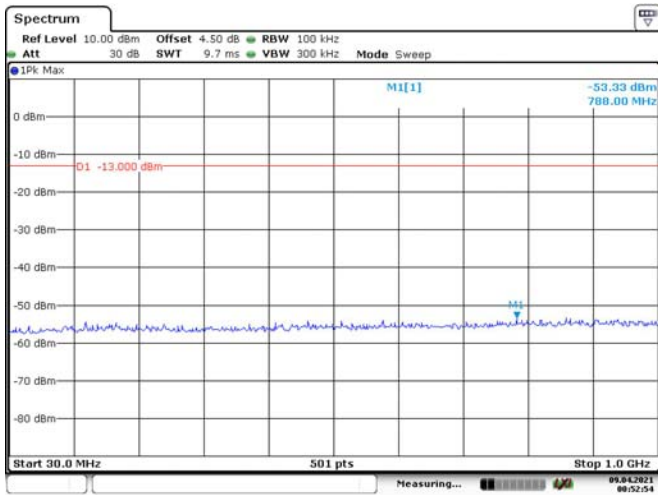


Date: 9.APR.2021 00:51:55

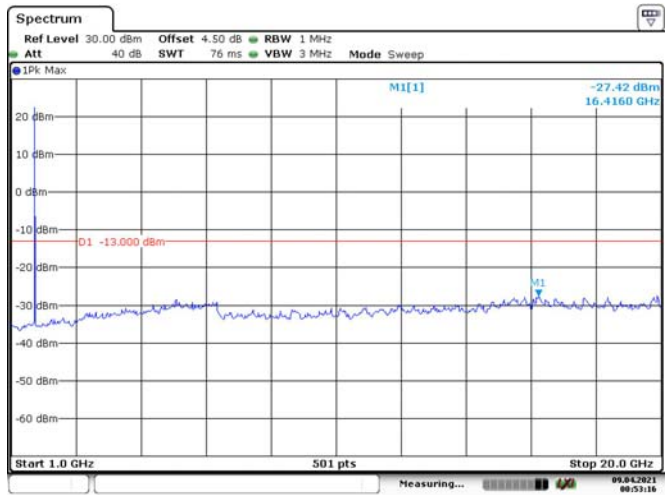


Date: 9.APR.2021 00:52:20

### 3M, QPSK, Low Channel

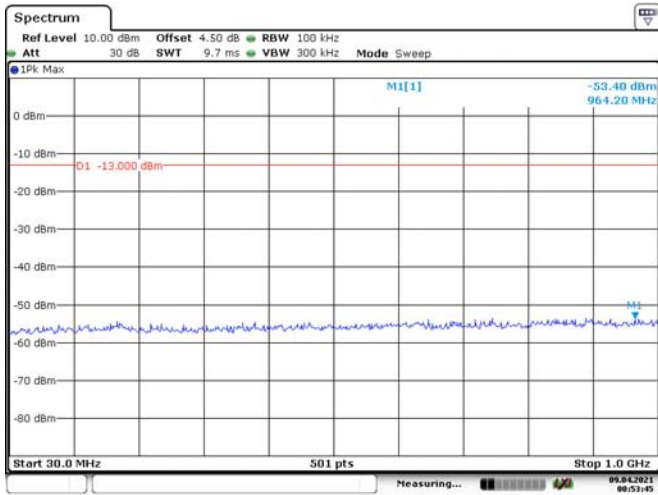


Date: 9.APR.2021 00:52:55

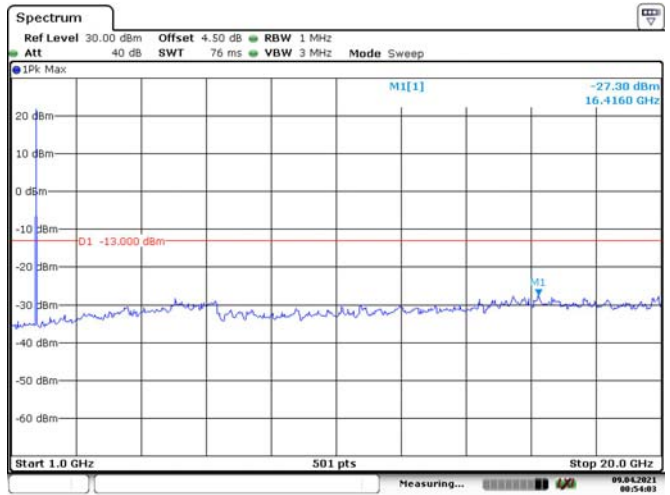


Date: 9.APR.2021 00:53:17

### 3M, QPSK, Middle Channel

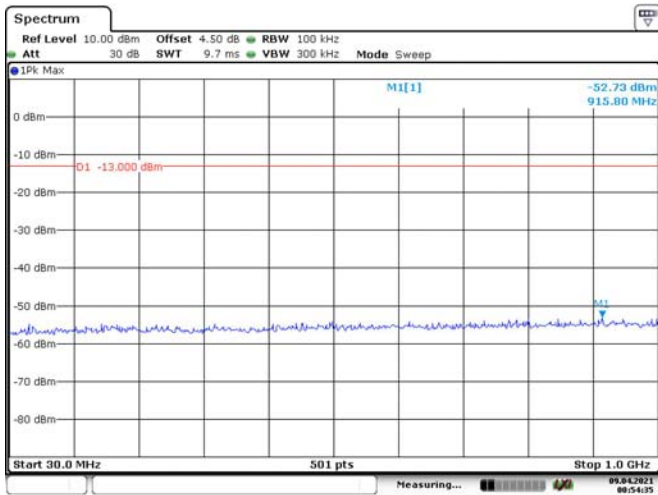


Date: 9.APR.2021 00:53:45

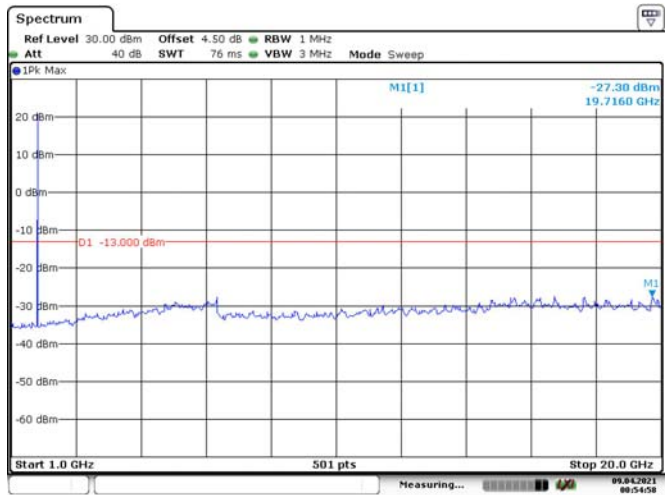


Date: 9.APR.2021 00:54:04

### 3M, QPSK, High Channel

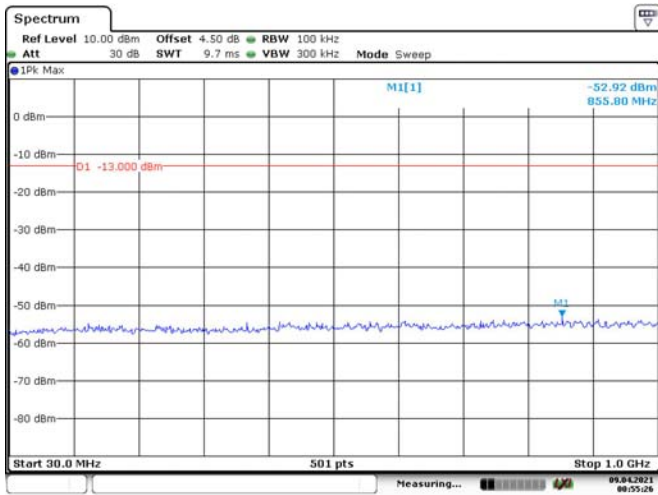


Date: 9.APR.2021 00:54:36

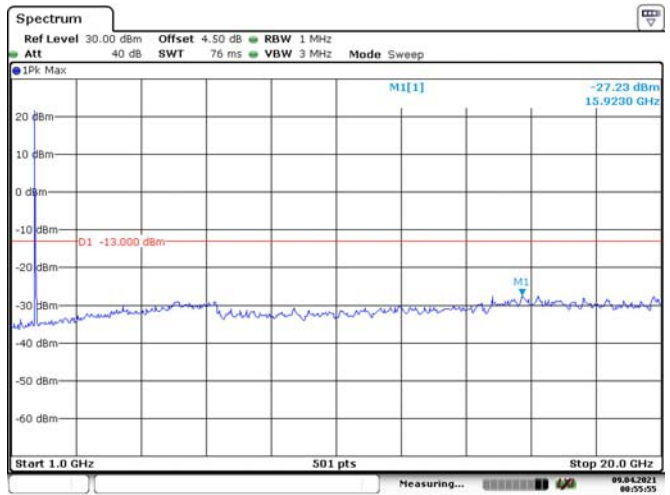


Date: 9.APR.2021 00:54:58

### 5M, QPSK, Low Channel

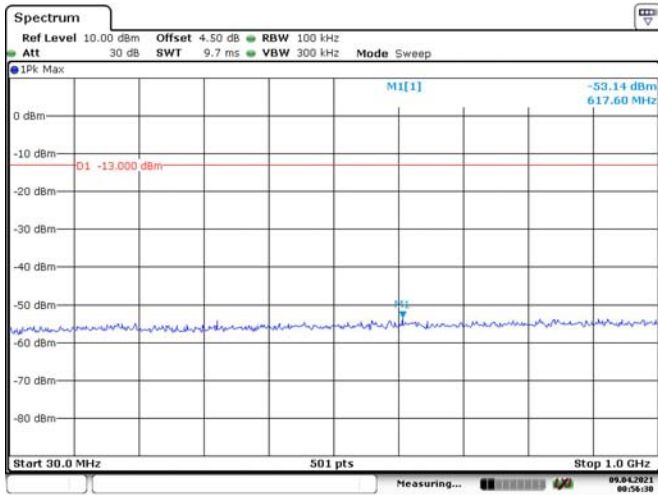


Date: 9.APR.2021 00:55:26

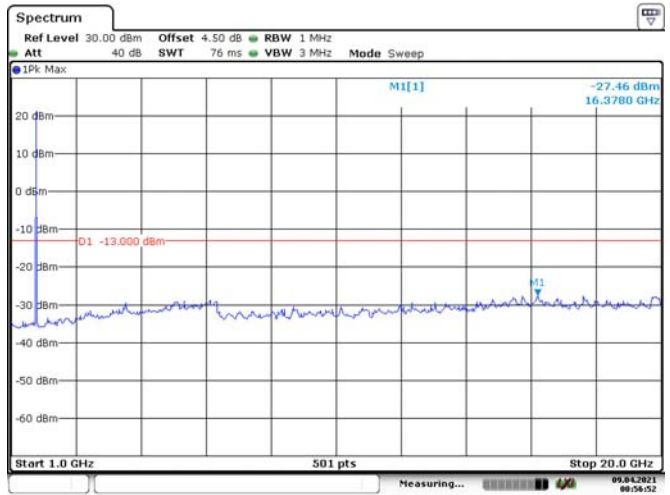


Date: 9.APR.2021 00:55:54

### 5M, QPSK, Middle Channel

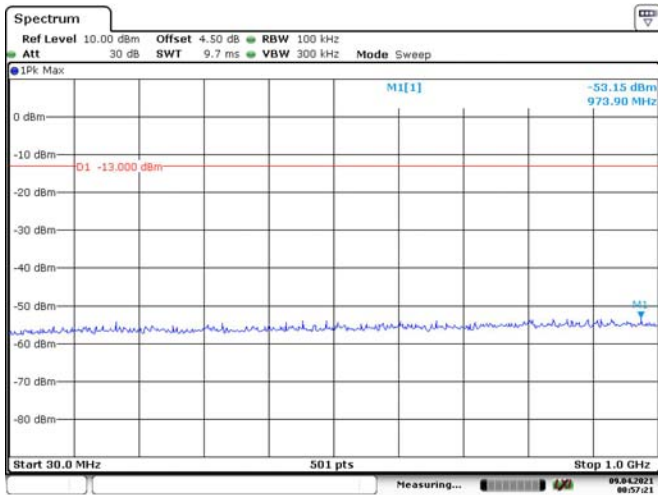


Date: 9.APR.2021 00:56:29

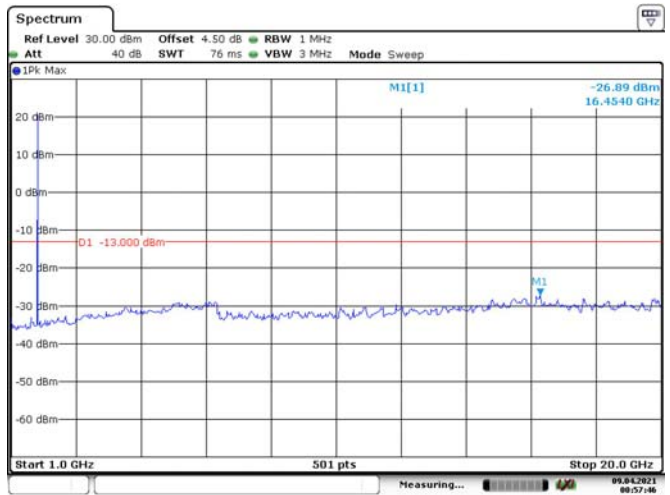


Date: 9.APR.2021 00:56:51

### 5M, QPSK, High Channel

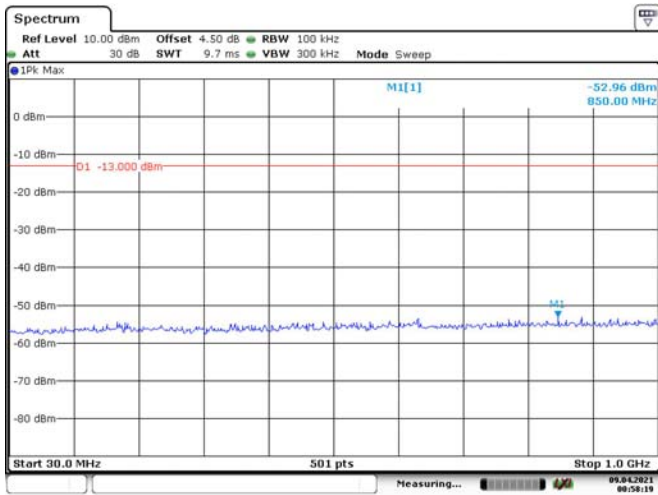


Date: 9.APR.2021 00:57:20

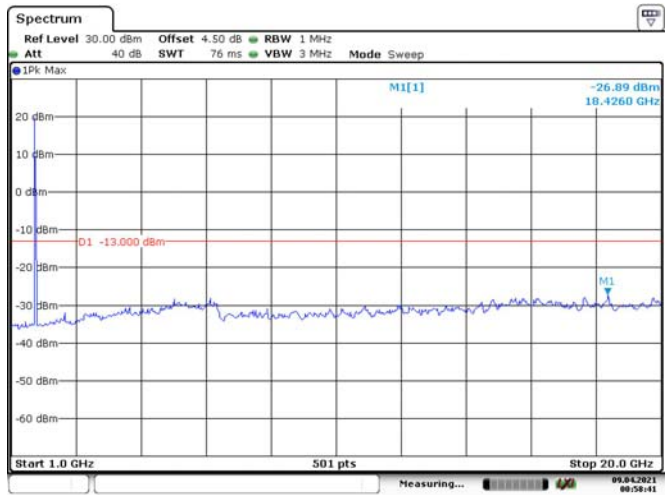


Date: 9.APR.2021 00:57:45

### 10M, QPSK, Low Channel

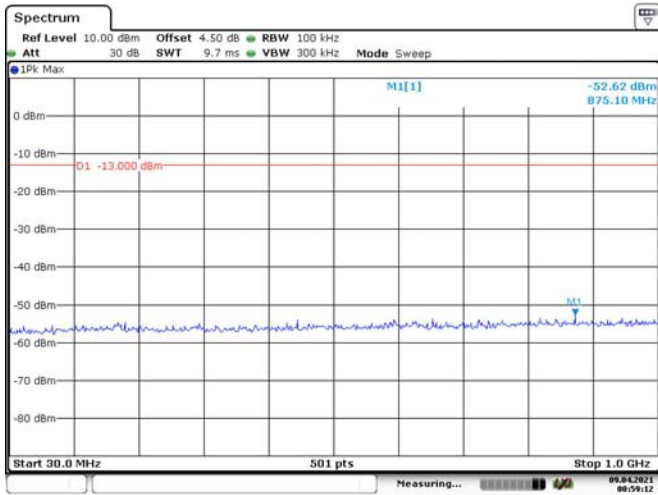


Date: 9.APR.2021 00:58:19

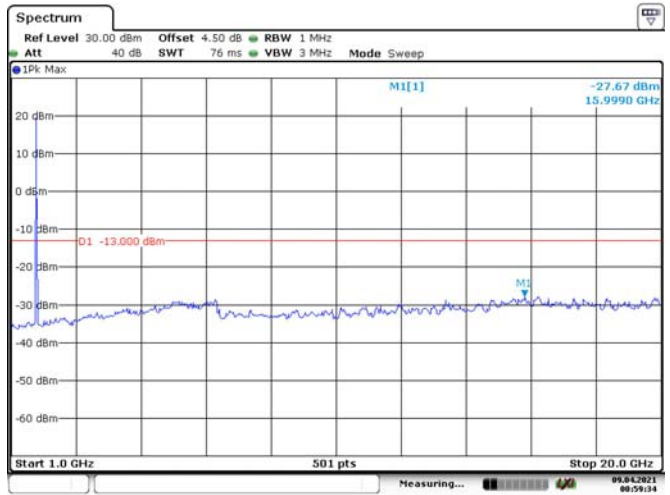


Date: 9.APR.2021 00:58:41

### 10M, QPSK, Middle Channel

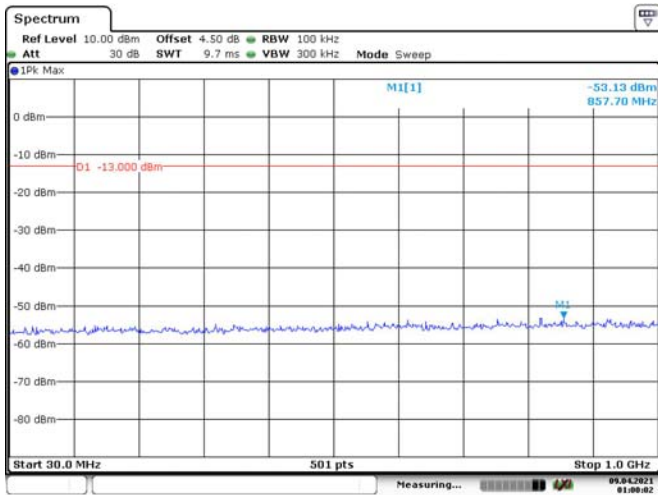


Date: 9.APR.2021 00:59:12

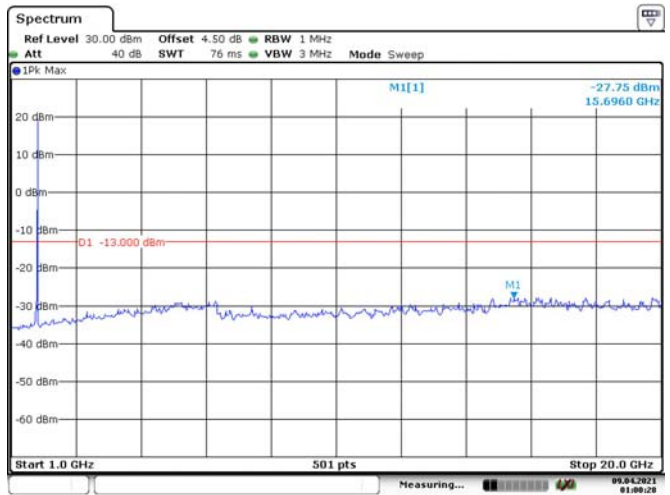


Date: 9.APR.2021 00:59:34

### 10M, QPSK, High Channel

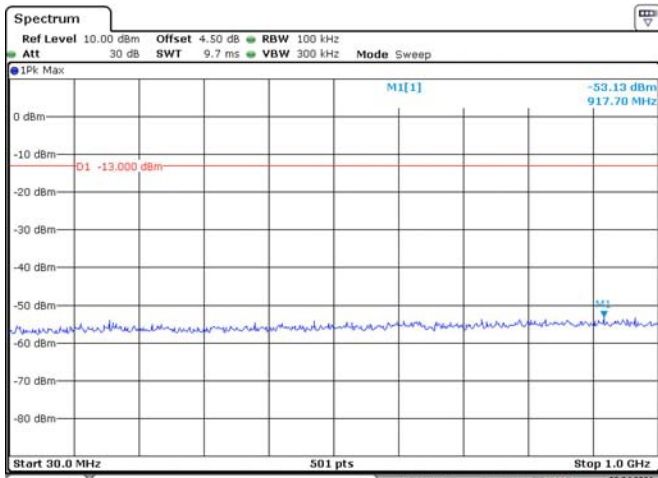


Date: 9.APR.2021 01:00:02

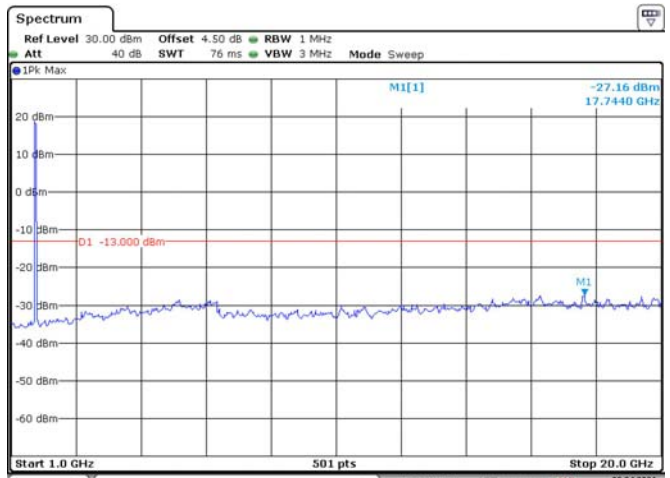


Date: 9.APR.2021 01:00:27

### 15M, QPSK, Low Channel

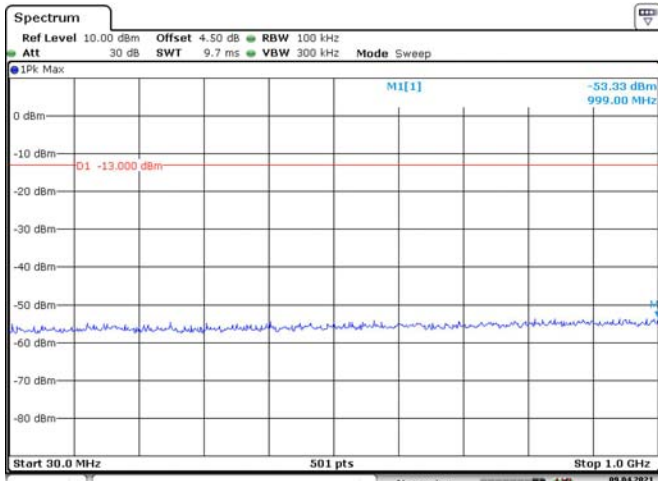


Date: 9.APR.2021 01:01:06

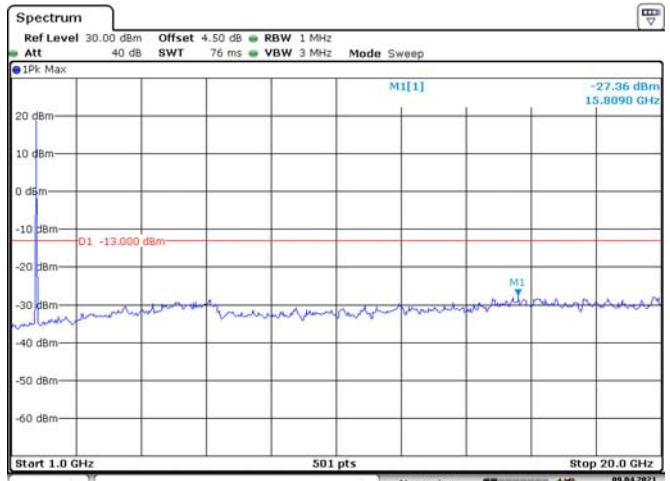


Date: 9.APR.2021 01:01:34

### 15M, QPSK, Middle Channel

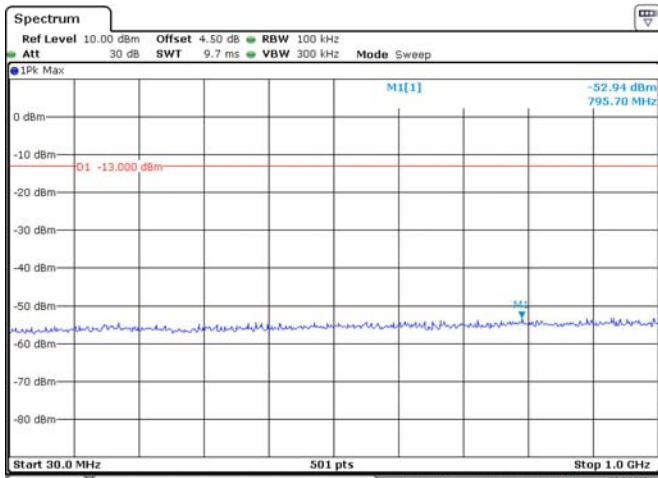


Date: 9.APR.2021 01:02:09

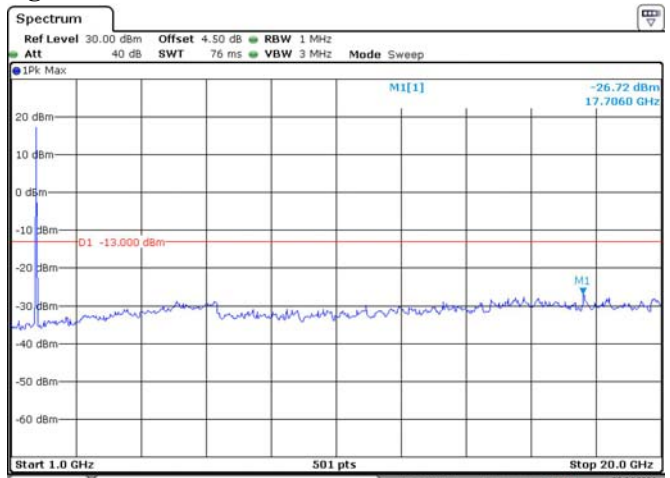


Date: 9.APR.2021 01:02:31

### 15M, QPSK, High Channel



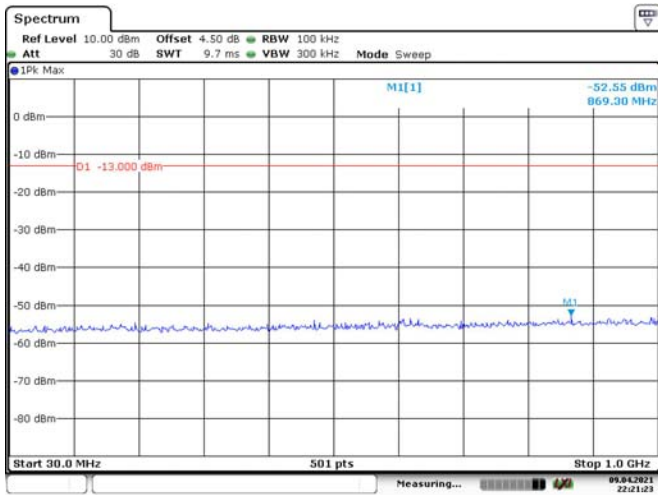
Date: 9.APR.2021 22:20:20



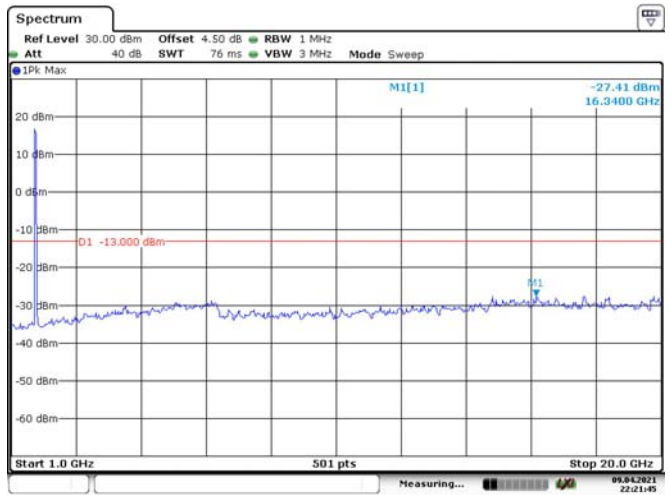
Date: 9.APR.2021 22:20:39



### 20M, QPSK, Low Channel

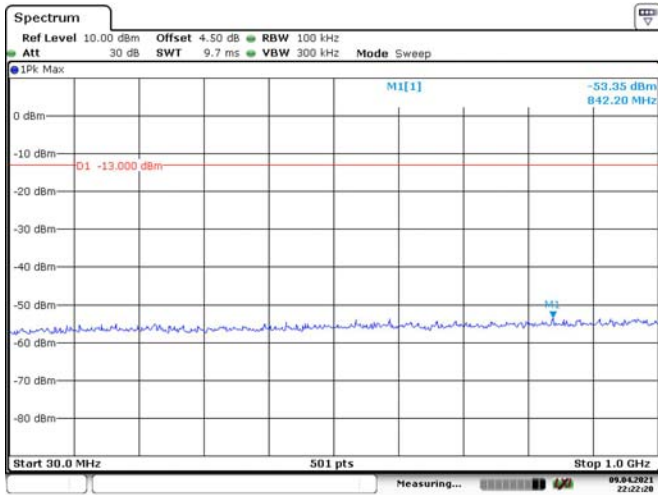


Date: 9.APR.2021 22:21:23

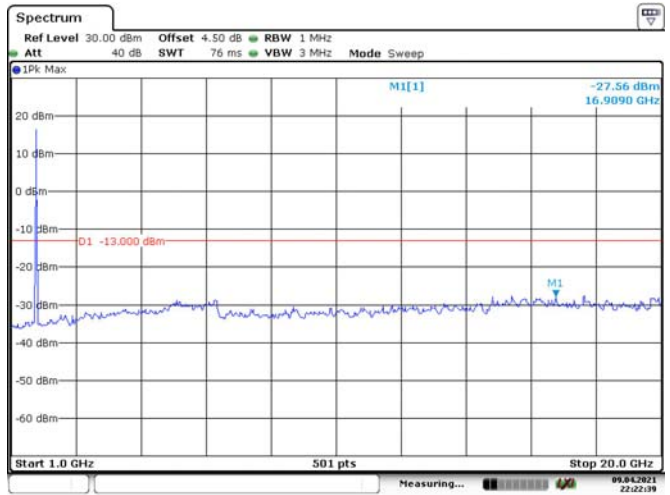


Date: 9.APR.2021 22:21:45

### 20M, QPSK, Middle Channel

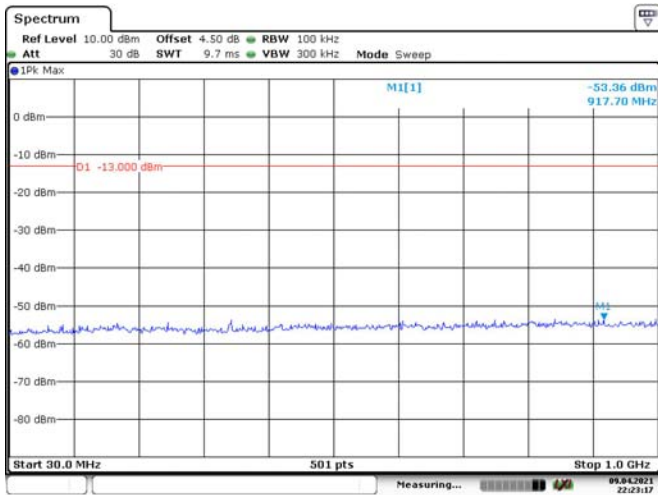


Date: 9.APR.2021 22:22:08

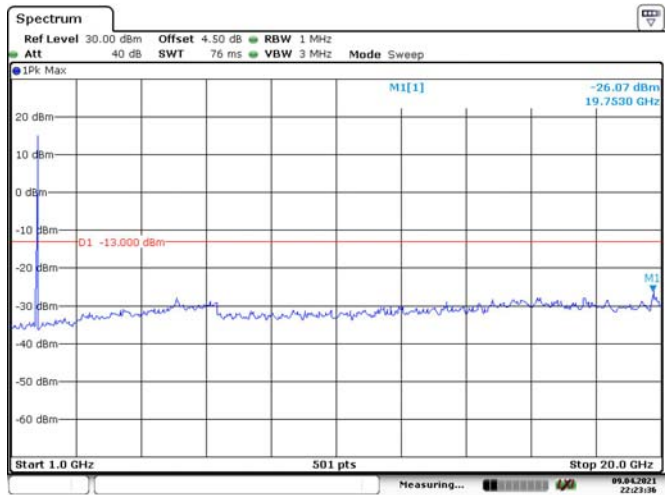


Date: 9.APR.2021 22:22:19

### 20M, QPSK, High Channel



Date: 9.APR.2021 22:23:17



Date: 9.APR.2021 22:23:36

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

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**Applicable Standard**

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

**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	A060611-2	2020-08-25	2023-08-25
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2020-09-24	2021-09-24
Sonoma	Amplifier	310N	185914	2020-10-13	2021-10-13
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	2020-12-09	2021-12-08
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	2020-07-07	2021-07-07
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	2020-06-27	2021-06-27
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536- JO	15964001001	2020-06-27	2021-06-27
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
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	2020-12-09	2021-12-08

\* **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°C	26.6°C
Relative Humidity:	46 %	59%
ATM Pressure:	100.3kPa	101.2kPa
Tester:	Asa Chen	Lee Li
Test Date:	2021.03.26	2021.03.28

Test Result: Compliance.

EUT Operation Mode: Transmitting

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
1648.40	H	53.05	-51.13	10.44	0.71	-41.40	-13.00	28.40
1648.40	V	55.65	-49.13	10.44	0.71	-39.40	-13.00	26.40
2472.60	H	36.56	-66.22	12.88	1.25	-54.59	-13.00	41.59
2472.60	V	42.45	-60.38	12.88	1.25	-48.75	-13.00	35.75
3296.80	H	37.03	-62.75	13.60	1.59	-50.74	-13.00	37.74
3296.80	V	42.34	-57.45	13.60	1.59	-45.44	-13.00	32.44
152.22	H	73.09	-37.41	0.00	0.24	-37.65	-13.00	24.65
222.06	V	71.24	-35.90	0.00	0.22	-36.12	-13.00	23.12
GSM 850 Frequency:836.6MHz								
1673.20	H	43.07	-60.87	10.61	0.73	-50.99	-13.00	37.99
1673.20	V	47.17	-57.37	10.61	0.73	-47.49	-13.00	34.49
2509.80	H	35.98	-66.93	13.11	1.25	-55.07	-13.00	42.07
2509.80	V	36.56	-66.38	13.11	1.25	-54.52	-13.00	41.52
3346.40	H	35.56	-64.12	13.83	1.61	-51.90	-13.00	38.90
3346.40	V	38.67	-61.05	13.83	1.61	-48.83	-13.00	35.83
156.10	H	61.57	-49.08	0.00	0.24	-49.32	-13.00	36.32
74.62	V	67.92	-37.93	-2.69	0.18	-40.80	-13.00	27.80
GSM 850 Frequency:848.8MHz								
1697.60	H	40.61	-63.09	10.78	0.75	-53.06	-13.00	40.06
1697.60	V	43.04	-61.26	10.78	0.75	-51.23	-13.00	38.23
2546.40	H	37.05	-65.90	13.15	1.27	-54.02	-13.00	41.02
2546.40	V	36.99	-66.10	13.15	1.27	-54.22	-13.00	41.22
3395.20	H	36.44	-63.08	14.08	1.64	-50.64	-13.00	37.64
3395.20	V	42.27	-57.35	14.08	1.64	-44.91	-13.00	31.91
72.68	H	73.27	-34.17	-3.66	0.18	-38.01	-13.00	25.01
159.98	V	64.35	-42.18	0.00	0.24	-42.42	-13.00	29.42

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
3700.40	H	35.49	-62.50	14.00	1.83	-50.33	-13.00	37.33
3700.40	V	35.22	-62.75	14.00	1.83	-50.58	-13.00	37.58
5550.60	H	38.24	-55.73	13.95	1.27	-43.05	-13.00	30.05
5550.60	V	41.39	-52.43	13.95	1.27	-39.75	-13.00	26.75
365.62	H	55.67	-51.76	0.00	0.36	-52.12	-13.00	39.12
53.28	V	61.27	-37.22	-13.39	0.18	-50.79	-13.00	37.79
GSM 1900 Frequency:1880MHz								
3760.00	H	35.70	-61.94	13.76	1.63	-49.81	-13.00	36.81
3760.00	V	35.11	-62.39	13.76	1.63	-50.26	-13.00	37.26
5640.00	H	37.99	-55.60	14.02	1.31	-42.89	-13.00	29.89
5640.00	V	42.73	-50.75	14.02	1.31	-38.04	-13.00	25.04
156.10	H	61.56	-49.09	0.00	0.24	-49.33	-13.00	36.33
156.10	V	65.25	-40.91	0.00	0.24	-41.15	-13.00	28.15
GSM 1900 Frequency:1909.8MHz								
3819.60	H	35.91	-61.34	13.56	1.50	-49.28	-13.00	36.28
3819.60	V	35.92	-61.15	13.56	1.50	-49.09	-13.00	36.09
5729.40	H	35.50	-58.21	13.96	1.31	-45.56	-13.00	32.56
5729.40	V	38.49	-55.19	13.96	1.31	-42.54	-13.00	29.54
156.10	H	60.40	-50.25	0.00	0.24	-50.49	-13.00	37.49
156.10	V	65.21	-40.95	0.00	0.24	-41.19	-13.00	28.19

## 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

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1850.7 MHz								
3701.40	H	39.30	-58.68	13.99	1.83	-46.52	-13.00	33.52
3701.40	V	38.65	-59.31	13.99	1.83	-47.15	-13.00	34.15
5552.10	H	38.72	-55.23	13.96	1.27	-42.54	-13.00	29.54
5552.10	V	38.04	-55.76	13.96	1.27	-43.07	-13.00	30.07
64.92	H	56.25	-49.45	-7.69	0.17	-57.31	-13.00	44.31
64.92	V	59.93	-46.00	-7.69	0.17	-53.86	-13.00	40.86
QPSK, Frequency: 1880 MHz								
3760.00	H	39.59	-58.05	13.76	1.63	-45.92	-13.00	32.92
3760.00	V	38.71	-58.79	13.76	1.63	-46.66	-13.00	33.66
5640.00	H	38.08	-55.51	14.02	1.31	-42.80	-13.00	29.80
5640.00	V	38.25	-55.23	14.02	1.31	-42.52	-13.00	29.52
206.54	H	51.58	-58.52	0.00	0.19	-58.71	-13.00	45.71
64.92	V	59.72	-46.21	-7.69	0.17	-54.07	-13.00	41.07
QPSK, Frequency: 1909.3 MHz								
3818.60	H	39.08	-58.18	13.56	1.50	-46.12	-13.00	33.12
3818.60	V	39.56	-57.51	13.56	1.50	-45.45	-13.00	32.45
5727.90	H	38.41	-55.31	13.96	1.31	-42.66	-13.00	29.66
5727.90	V	38.78	-54.91	13.96	1.31	-42.26	-13.00	29.26
64.92	H	55.34	-50.36	-7.69	0.17	-58.22	-13.00	45.22
64.92	V	59.90	-46.03	-7.69	0.17	-53.89	-13.00	40.89

**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								
3421.40	H	35.17	-64.23	14.04	1.63	-51.82	-13.00	38.82
3421.40	V	35.77	-63.71	14.04	1.63	-51.30	-13.00	38.30
5132.10	H	33.59	-61.09	13.93	1.37	-48.53	-13.00	35.53
5132.10	V	34.16	-60.43	13.93	1.37	-47.87	-13.00	34.87
64.92	H	55.26	-50.44	-7.69	0.17	-58.30	-13.00	45.30
64.92	V	59.93	-46.00	-7.69	0.17	-53.86	-13.00	40.86
QPSK, Frequency: 1732.5 MHz								
3465.00	H	35.64	-63.55	13.91	1.62	-51.26	-13.00	38.26
3465.00	V	35.57	-63.65	13.91	1.62	-51.36	-13.00	38.36
5197.50	H	34.08	-60.61	14.00	1.52	-48.13	-13.00	35.13
5197.50	V	33.47	-61.29	14.00	1.52	-48.81	-13.00	35.81
64.92	H	55.49	-50.21	-7.69	0.17	-58.07	-13.00	45.07
64.92	V	59.91	-46.02	-7.69	0.17	-53.88	-13.00	40.88
QPSK, Frequency: 1754.3 MHz								
3508.60	H	34.41	-64.60	13.83	1.60	-52.37	-13.00	39.37
3508.60	V	35.24	-63.77	13.83	1.60	-51.54	-13.00	38.54
5262.90	H	33.63	-61.46	14.19	1.29	-48.56	-13.00	35.56
5262.90	V	32.01	-63.16	14.19	1.29	-50.26	-13.00	37.26
64.92	H	55.54	-50.16	-7.69	0.17	-58.02	-13.00	45.02
64.92	V	59.91	-46.02	-7.69	0.17	-53.88	-13.00	40.88

**LTE Band 5(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	45.92	-58.25	10.45	0.71	-48.51	-13.00	35.51
1649.40	V	48.97	-55.80	10.45	0.71	-46.06	-13.00	33.06
2474.10	H	35.93	-66.86	12.89	1.25	-55.22	-13.00	42.22
2474.10	V	35.05	-67.79	12.89	1.25	-56.15	-13.00	43.15
3298.80	H	35.48	-64.33	13.60	1.59	-52.32	-13.00	39.32
3298.80	V	34.95	-64.86	13.60	1.59	-52.85	-13.00	39.85
4123.50	H	40.00	-58.02	13.77	1.40	-45.65	-13.00	32.65
4123.50	V	50.69	-47.42	13.77	1.40	-35.05	-13.00	22.05
64.92	H	55.99	-49.71	-7.69	0.17	-57.57	-13.00	44.57
64.92	V	60.47	-45.46	-7.69	0.17	-53.32	-13.00	40.32
QPSK, Frequency: 836.5 MHz								
1673.00	H	39.83	-64.11	10.61	0.73	-54.23	-13.00	41.23
1673.00	V	43.85	-60.69	10.61	0.73	-50.81	-13.00	37.81
2509.50	H	36.32	-66.59	13.11	1.25	-54.73	-13.00	41.73
2509.50	V	34.49	-68.45	13.11	1.25	-56.59	-13.00	43.59
3346.00	H	35.11	-64.57	13.83	1.61	-52.35	-13.00	39.35
3346.00	V	35.25	-64.47	13.83	1.61	-52.25	-13.00	39.25
4182.50	H	38.49	-59.24	13.95	1.56	-46.85	-13.00	33.85
4182.50	V	49.11	-48.62	13.95	1.56	-36.23	-13.00	23.23
64.92	H	55.89	-49.81	-7.69	0.17	-57.67	-13.00	44.67
64.92	V	59.94	-45.99	-7.69	0.17	-53.85	-13.00	40.85
QPSK, Frequency: 848.3 MHz								
1696.60	H	39.97	-63.74	10.78	0.75	-53.71	-13.00	40.71
1696.60	V	46.67	-57.64	10.78	0.75	-47.61	-13.00	34.61
2544.90	H	35.13	-67.82	13.14	1.27	-55.95	-13.00	42.95
2544.90	V	35.93	-67.15	13.14	1.27	-55.28	-13.00	42.28
3393.20	H	35.79	-63.74	14.07	1.64	-51.31	-13.00	38.31
3393.20	V	36.27	-63.35	14.07	1.64	-50.92	-13.00	37.92
4241.50	H	38.65	-59.03	13.96	1.24	-46.31	-13.00	33.31
4241.50	V	48.31	-49.37	13.96	1.24	-36.65	-13.00	23.65
64.92	H	55.95	-49.75	-7.69	0.17	-57.61	-13.00	44.61
64.92	V	60.28	-45.65	-7.69	0.17	-53.51	-13.00	40.51



**LTE Band 7(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2502.5 MHz								
5005.00	H	33.91	-62.16	14.00	1.43	-49.59	-25.00	24.59
5005.00	V	33.77	-62.06	14.00	1.43	-49.49	-25.00	24.49
7507.50	H	34.07	-54.57	13.20	1.33	-42.70	-25.00	17.70
7507.50	V	35.12	-54.00	13.20	1.33	-42.13	-25.00	17.13
64.92	H	55.96	-49.74	-7.69	0.17	-57.60	-25.00	32.60
64.92	V	59.87	-46.06	-7.69	0.17	-53.92	-25.00	28.92
QPSK, Frequency: 2535 MHz								
5070.00	H	33.52	-61.59	13.93	1.34	-49.00	-25.00	24.00
5070.00	V	33.92	-61.00	13.93	1.34	-48.41	-25.00	23.41
7605.00	H	34.88	-54.00	13.21	1.40	-42.19	-25.00	17.19
7605.00	V	35.47	-53.81	13.21	1.40	-42.00	-25.00	17.00
64.92	H	55.77	-49.93	-7.69	0.17	-57.79	-25.00	32.79
64.92	V	59.88	-46.05	-7.69	0.17	-53.91	-25.00	28.91
QPSK, Frequency: 2567.5 MHz								
5135.00	H	33.23	-61.45	13.94	1.38	-48.89	-25.00	23.89
5135.00	V	35.41	-59.18	13.94	1.38	-46.62	-25.00	21.62
7702.50	H	35.48	-53.64	13.40	1.47	-41.71	-25.00	16.71
7702.50	V	34.75	-54.69	13.40	1.47	-42.76	-25.00	17.76
64.92	H	55.87	-49.83	-7.69	0.17	-57.69	-25.00	32.69
64.92	V	59.96	-45.97	-7.69	0.17	-53.83	-25.00	28.83

**LTE Band 38(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2572.5 MHz								
5145.00	H	34.20	-60.48	13.95	1.40	-47.93	-25.00	22.93
5145.00	V	35.44	-59.18	13.95	1.40	-46.63	-25.00	21.63
7717.50	H	35.42	-53.74	13.38	1.48	-41.84	-25.00	16.84
7717.50	V	34.41	-55.05	13.38	1.48	-43.15	-25.00	18.15
64.92	H	55.65	-50.05	-7.69	0.17	-57.91	-25.00	32.91
64.92	V	61.28	-44.65	-7.69	0.17	-52.51	-25.00	27.51
QPSK, Frequency: 2595 MHz								
5190.00	H	34.03	-60.66	13.99	1.51	-48.18	-25.00	23.18
5190.00	V	36.26	-58.48	13.99	1.51	-46.00	-25.00	21.00
7785.00	H	34.00	-55.32	13.32	1.53	-43.53	-25.00	18.53
7785.00	V	36.30	-53.27	13.32	1.53	-41.48	-25.00	16.48
66.86	H	56.14	-50.23	-6.66	0.18	-57.07	-25.00	32.07
64.92	V	61.81	-44.12	-7.69	0.17	-51.98	-25.00	26.98
QPSK, Frequency: 2617.5 MHz								
5235.00	H	33.59	-61.32	14.11	1.40	-48.61	-25.00	23.61
5235.00	V	34.53	-60.46	14.11	1.40	-47.75	-25.00	22.75
7852.50	H	35.00	-54.49	13.25	1.58	-42.82	-25.00	17.82
7852.50	V	37.42	-52.26	13.25	1.58	-40.59	-25.00	15.59
64.92	H	54.92	-50.78	-7.69	0.17	-58.64	-25.00	33.64
66.86	V	61.37	-44.79	-6.66	0.18	-51.63	-25.00	26.63

**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	34.22	-62.87	14.23	1.82	-50.46	-40.00	10.46
4615.00	V	34.81	-62.38	14.23	1.82	-49.97	-40.00	9.97
6922.50	H	33.94	-56.78	13.66	1.81	-44.93	-40.00	4.93
6922.50	V	34.33	-56.26	13.66	1.81	-44.41	-40.00	4.41
64.92	H	55.87	-49.83	-7.69	0.17	-57.69	-40.00	17.69
64.92	V	61.61	-44.32	-7.69	0.17	-52.18	-40.00	12.18
QPSK, Frequency:2310 MHz								
4620.00	H	34.29	-62.81	14.24	1.81	-50.38	-40.00	10.38
4620.00	V	34.43	-62.77	14.24	1.81	-50.34	-40.00	10.34
6930.00	H	34.32	-56.37	13.64	1.81	-44.54	-40.00	4.54
6930.00	V	34.04	-56.52	13.64	1.81	-44.69	-40.00	4.69
64.26	H	55.59	-49.88	-8.04	0.17	-58.09	-40.00	18.09
66.38	V	60.91	-45.19	-6.92	0.18	-52.29	-40.00	12.29
QPSK, Frequency:2312.5 MHz								
4625.00	H	34.18	-62.93	14.25	1.81	-50.49	-40.00	10.49
4625.00	V	34.97	-62.24	14.25	1.81	-49.80	-40.00	9.80
6937.50	H	34.29	-56.38	13.63	1.81	-44.56	-40.00	4.56
6937.50	V	33.91	-56.62	13.63	1.81	-44.80	-40.00	4.80
64.92	H	55.83	-49.87	-7.69	0.17	-57.73	-40.00	17.73
66.86	V	60.91	-45.25	-6.66	0.18	-52.09	-40.00	12.09

**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	34.30	-62.88	14.40	1.67	-50.15	-40.00	10.15
4705.00	V	34.65	-62.62	14.40	1.67	-49.89	-40.00	9.89
7057.50	H	34.15	-56.12	13.33	1.77	-44.56	-40.00	4.56
7057.50	V	34.50	-55.67	13.33	1.77	-44.11	-40.00	4.11
64.92	H	55.98	-49.72	-7.69	0.17	-57.58	-40.00	17.58
66.86	V	61.00	-45.16	-6.66	0.18	-52.00	-40.00	12.00
QPSK, Frequency: 2355 MHz								
4710.00	H	34.16	-62.96	14.39	1.66	-50.23	-40.00	10.23
4710.00	V	34.33	-62.88	14.39	1.66	-50.15	-40.00	10.15
7065.00	H	34.28	-55.96	13.31	1.76	-44.41	-40.00	4.41
7065.00	V	34.37	-55.78	13.31	1.76	-44.23	-40.00	4.23
64.73	H	55.64	-49.99	-7.79	0.17	-57.95	-40.00	17.95
66.92	V	61.29	-44.88	-6.63	0.18	-51.69	-40.00	11.69
QPSK, Frequency: 2357.5 MHz								
4715.00	H	34.01	-63.06	14.39	1.66	-50.33	-40.00	10.33
4715.00	V	34.32	-62.84	14.39	1.66	-50.11	-40.00	10.11
7072.50	H	34.30	-55.91	13.28	1.76	-44.39	-40.00	4.39
7072.50	V	34.19	-55.95	13.28	1.76	-44.43	-40.00	4.43
64.92	H	55.47	-50.23	-7.69	0.17	-58.09	-40.00	18.09
64.92	V	61.24	-44.69	-7.69	0.17	-52.55	-40.00	12.55

**LTE Band 41(30MHz-26.5GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2537.5 MHz								
5075.00	H	34.80	-60.24	13.93	1.34	-47.65	-25.00	22.65
5075.00	V	34.73	-60.12	13.93	1.34	-47.53	-25.00	22.53
7612.50	H	34.31	-54.59	13.23	1.40	-42.76	-25.00	17.76
7612.50	V	35.12	-54.17	13.23	1.40	-42.34	-25.00	17.34
64.92	H	55.08	-50.62	-7.69	0.17	-58.48	-25.00	33.48
61.04	V	61.77	-43.68	-9.75	0.17	-53.60	-25.00	28.60
QPSK, Frequency:2595 MHz								
5190.00	H	34.84	-59.85	13.99	1.51	-47.37	-25.00	22.37
5190.00	V	36.09	-58.65	13.99	1.51	-46.17	-25.00	21.17
7785.00	H	35.22	-54.10	13.32	1.53	-42.31	-25.00	17.31
7785.00	V	35.86	-53.71	13.32	1.53	-41.92	-25.00	16.92
66.86	H	55.94	-50.43	-6.66	0.18	-57.27	-25.00	32.27
64.92	V	61.13	-44.80	-7.69	0.17	-52.66	-25.00	27.66
QPSK, Frequency: 2652.5 MHz								
5305.00	H	34.02	-61.23	14.29	1.17	-48.11	-25.00	23.11
5305.00	V	36.91	-58.42	14.29	1.17	-45.30	-25.00	20.30
7957.50	H	34.41	-55.34	13.32	1.66	-43.68	-25.00	18.68
7957.50	V	39.18	-50.67	13.32	1.66	-39.01	-25.00	14.01
66.86	H	55.89	-50.48	-6.66	0.18	-57.32	-25.00	32.32
64.92	V	61.58	-44.35	-7.69	0.17	-52.21	-25.00	27.21

**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: 1710.7 MHz								
3421.40	H	35.96	-63.44	14.04	1.63	-51.03	-13.00	38.03
3421.40	V	35.71	-63.77	14.04	1.63	-51.36	-13.00	38.36
5132.10	H	34.87	-59.81	13.93	1.37	-47.25	-13.00	34.25
5132.10	V	34.10	-60.49	13.93	1.37	-47.93	-13.00	34.93
64.92	H	55.98	-49.72	-7.69	0.17	-57.58	-13.00	44.58
64.90	V	60.80	-45.12	-7.70	0.17	-52.99	-13.00	39.99
3421.40	H	35.96	-63.44	14.04	1.63	-51.03	-13.00	38.03
3421.40	V	35.71	-63.77	14.04	1.63	-51.36	-13.00	38.36
QPSK, Frequency: 1745 MHz								
3490.00	H	35.17	-63.89	13.83	1.61	-51.67	-13.00	38.67
3490.00	V	35.12	-63.95	13.83	1.61	-51.73	-13.00	38.73
5235.00	H	34.42	-60.49	14.11	1.40	-47.78	-13.00	34.78
5235.00	V	34.09	-60.90	14.11	1.40	-48.19	-13.00	35.19
64.92	H	55.21	-50.49	-7.69	0.17	-58.35	-13.00	45.35
64.92	V	60.32	-45.61	-7.69	0.17	-53.47	-13.00	40.47
QPSK, Frequency: 1779.3 MHz								
3558.60	H	36.52	-62.50	13.98	1.55	-50.07	-13.00	37.07
3558.60	V	39.39	-59.63	13.98	1.55	-47.20	-13.00	34.20
5337.90	H	34.10	-60.72	14.22	1.26	-47.76	-13.00	34.76
5337.90	V	34.63	-60.22	14.22	1.26	-47.26	-13.00	34.26
64.92	H	55.96	-49.74	-7.69	0.17	-57.60	-13.00	44.60
64.92	V	60.14	-45.79	-7.69	0.17	-53.65	-13.00	40.65

## 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

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

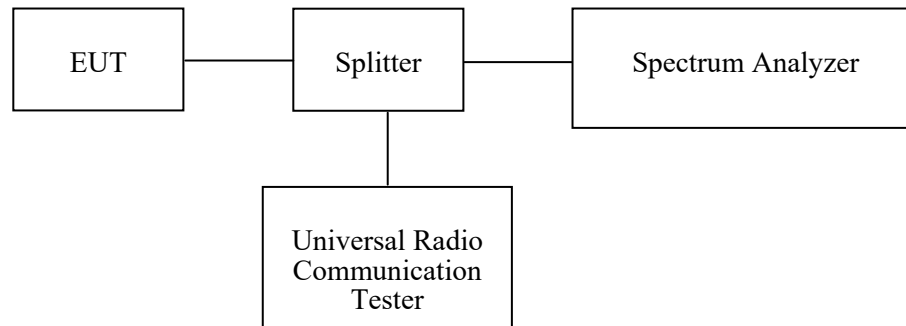
### Applicable Standard

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

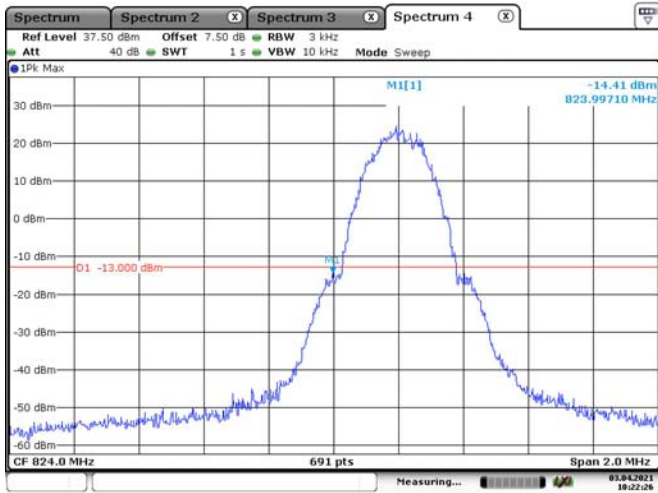
#### Environmental Conditions

Temperature:	23.6~26.2 °C
Relative Humidity:	54~67 %
ATM Pressure:	100.8~101.9kPa
Tester:	Theshy Xie
Test Date:	2021-04.03~2021.05.06

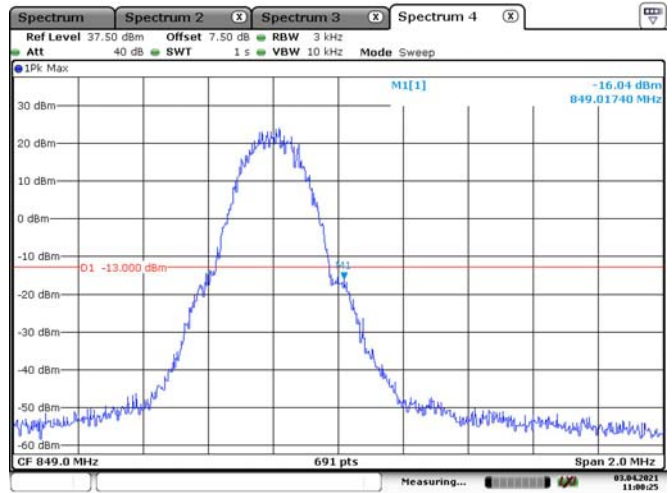
*Test Mode: Transmitting*

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

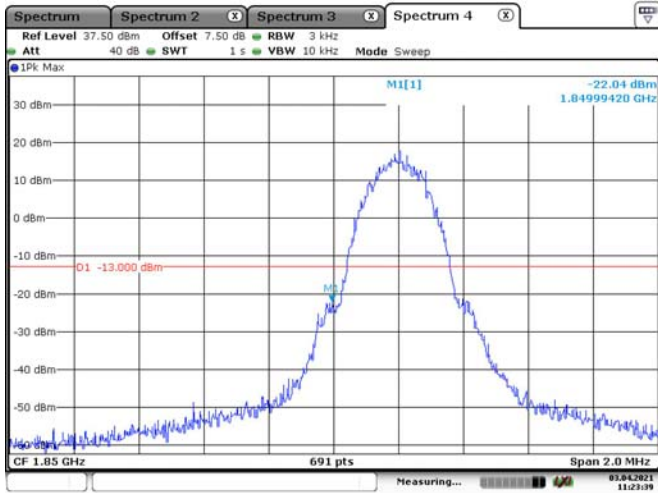
GSM 850, Left Band Edge



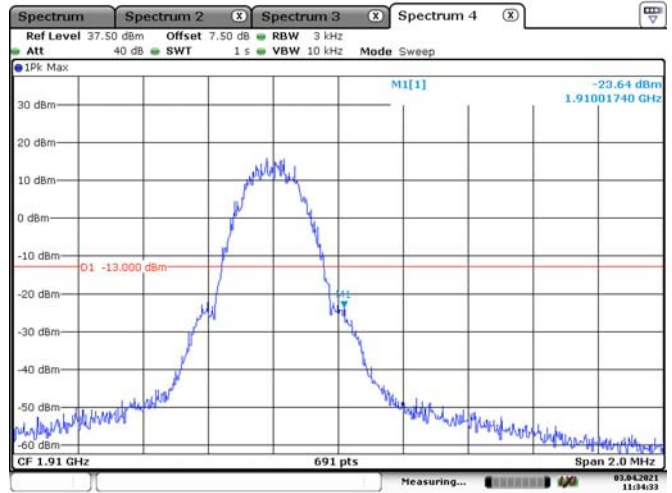
GSM 850, Right Band Edge



GSM 1900, Left Band Edge

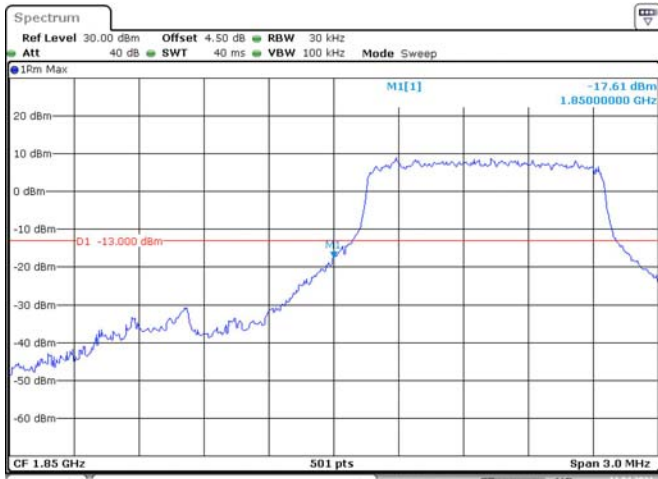


GSM 1900, Right Band Edge



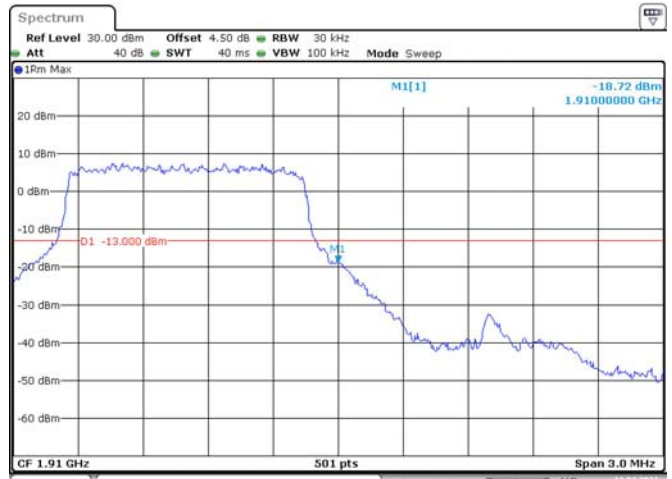
**LTE Band 2:**

**1.4M, QPSK, Left Band Edge**



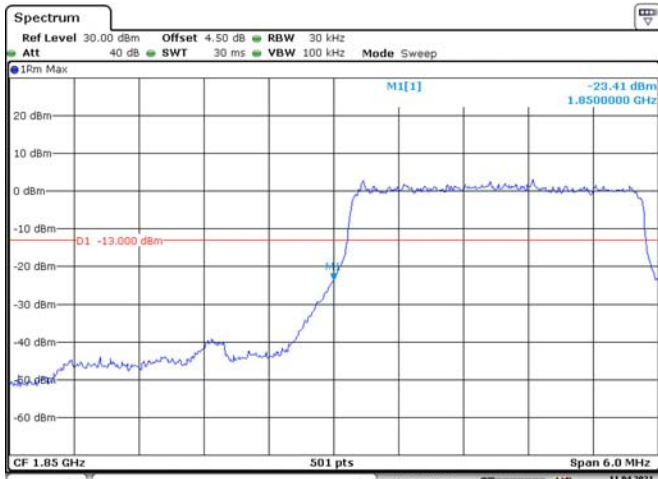
Date: 11.APR.2021 14:43:37

**1.4M, QPSK, Right Band Edge**



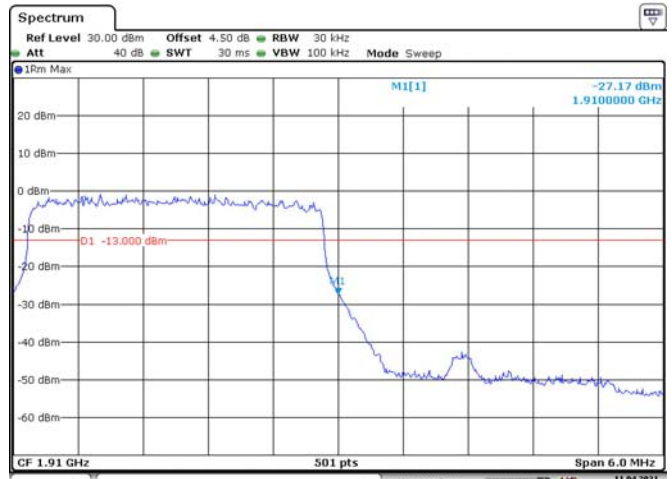
Date: 11.APR.2021 14:44:48

**3M, QPSK, Left Band Edge**



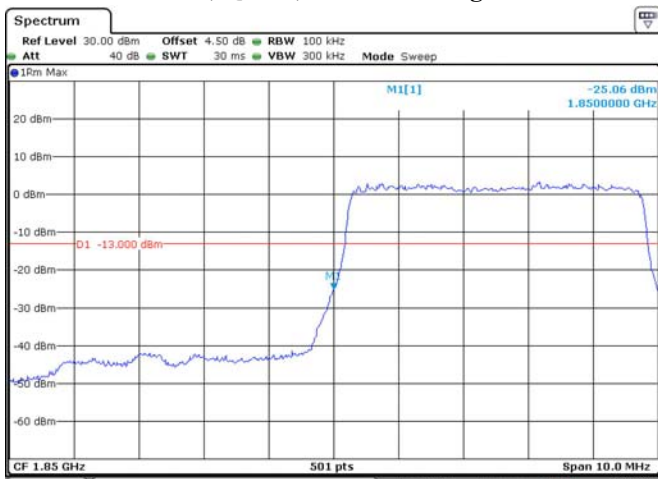
Date: 11.APR.2021 10:43:40

**3M, QPSK, Right Band Edge**



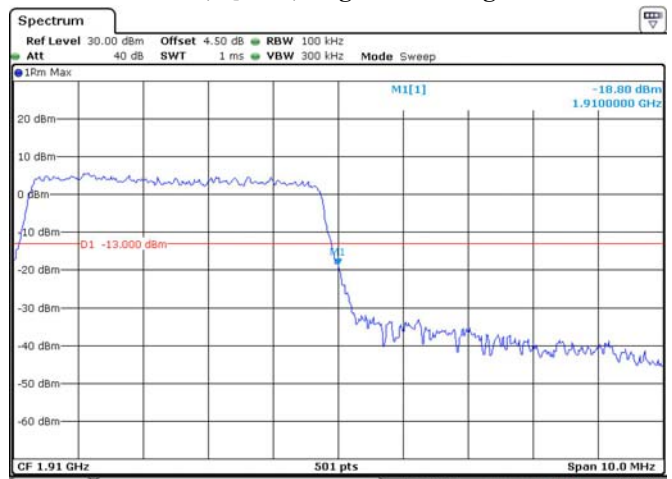
Date: 11.APR.2021 10:44:25

**5M, QPSK, Left Band Edge**



Date: 11.APR.2021 10:44:57

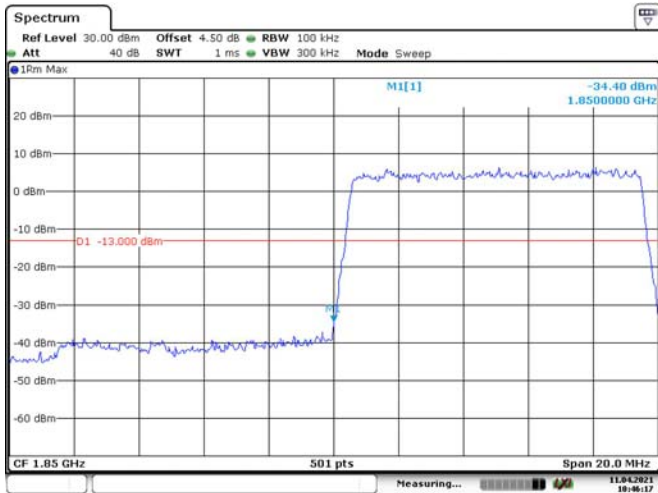
**5M, QPSK, Right Band Edge**



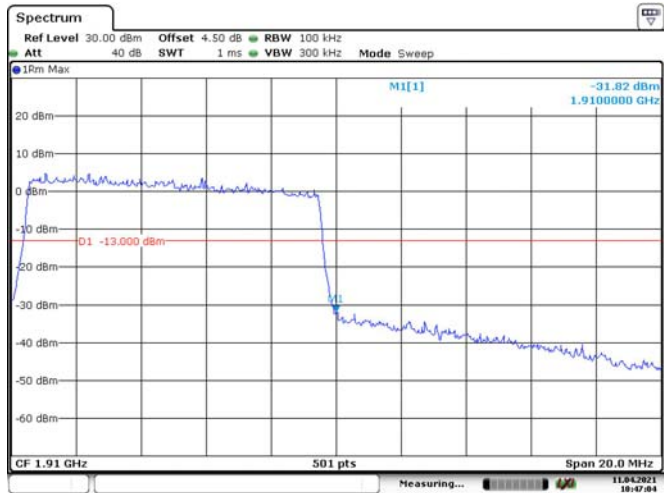
Date: 11.APR.2021 10:45:38



### 10M, QPSK, Left Band Edge



### 10M, QPSK, Right Band Edge



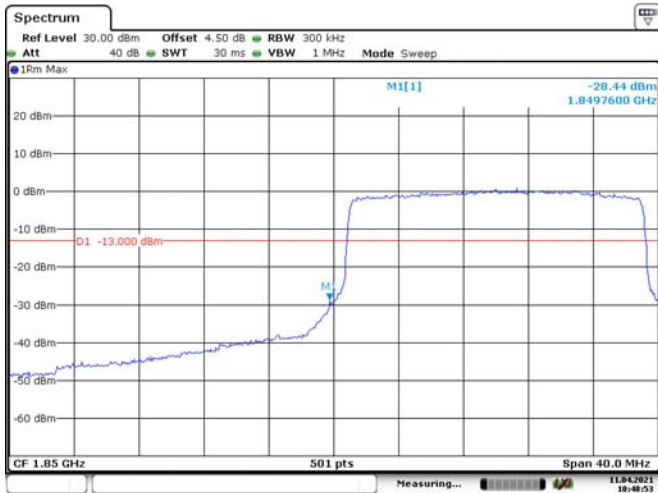
### 15M, QPSK, Left Band Edge



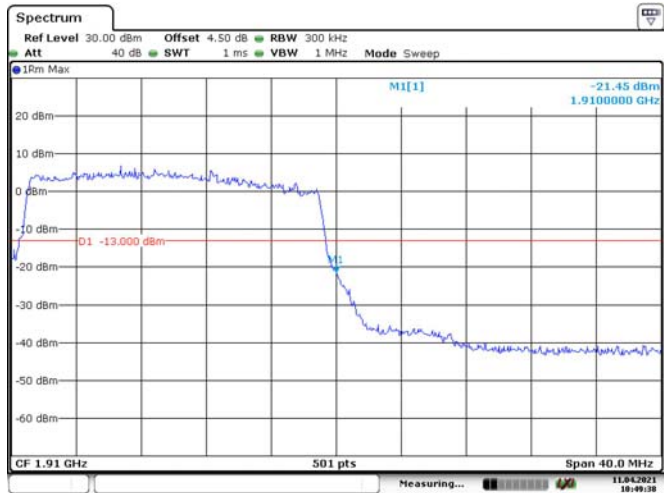
### 15M, QPSK, Right Band Edge



### 20M, QPSK, Left Band Edge

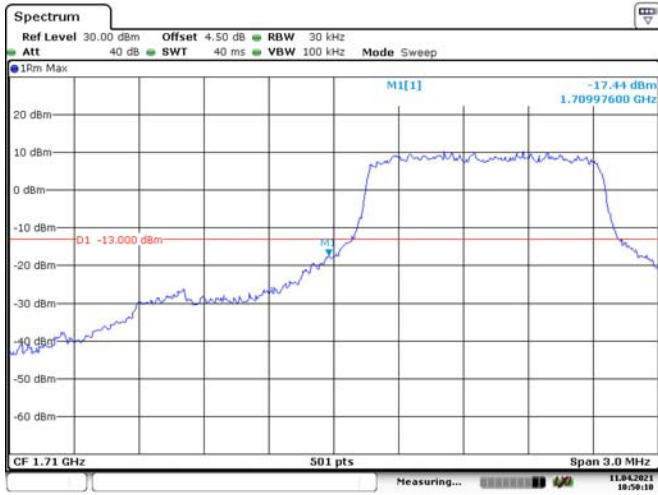


### 20M, QPSK, Right Band Edge



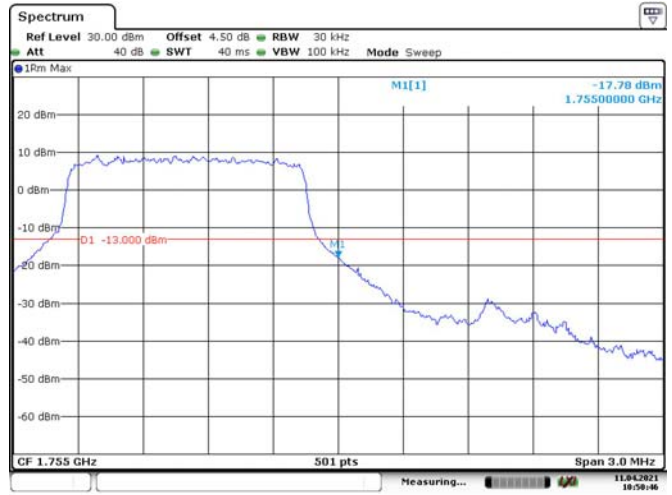
**LTE Band 4:**

**1.4M, QPSK, Left Band Edge**



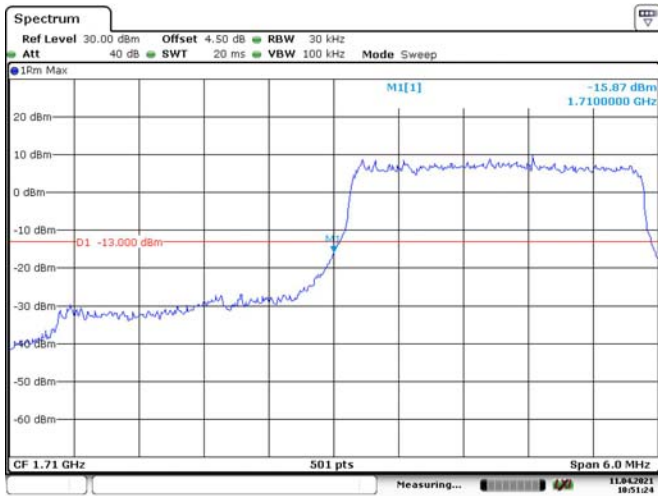
Date: 11.APR.2021 10:50:11

**1.4M, QPSK, Right Band Edge**



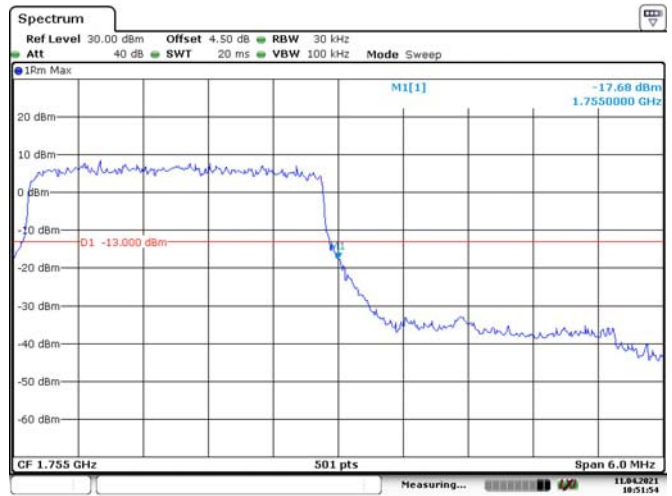
Date: 11.APR.2021 10:50:47

**3M, QPSK, Left Band Edge**



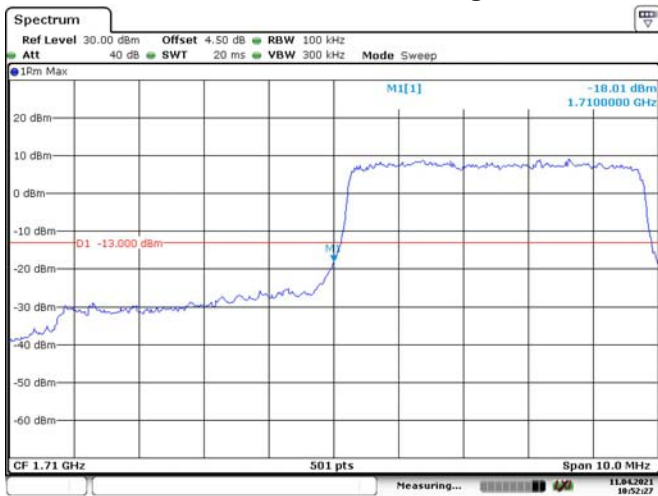
Date: 11.APR.2021 10:51:25

**3M, QPSK, Right Band Edge**



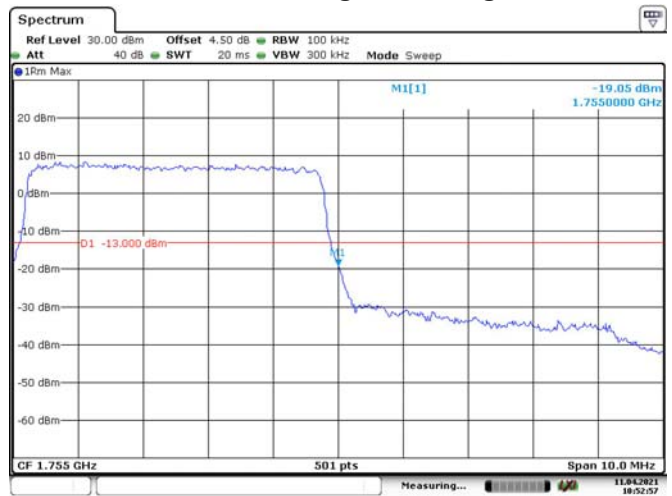
Date: 11.APR.2021 10:51:55

**5M, QPSK, Left Band Edge**



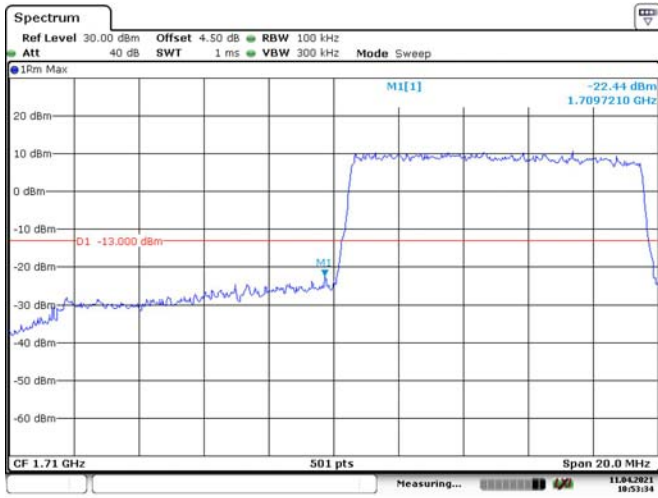
Date: 11.APR.2021 10:52:28

**5M, QPSK, Right Band Edge**

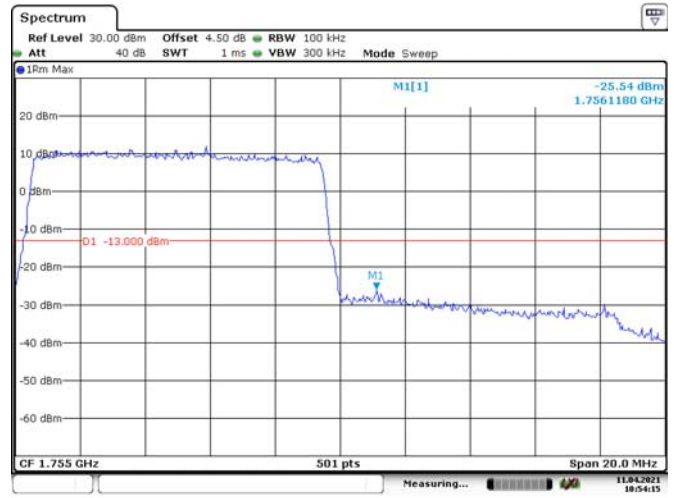


Date: 11.APR.2021 10:52:57

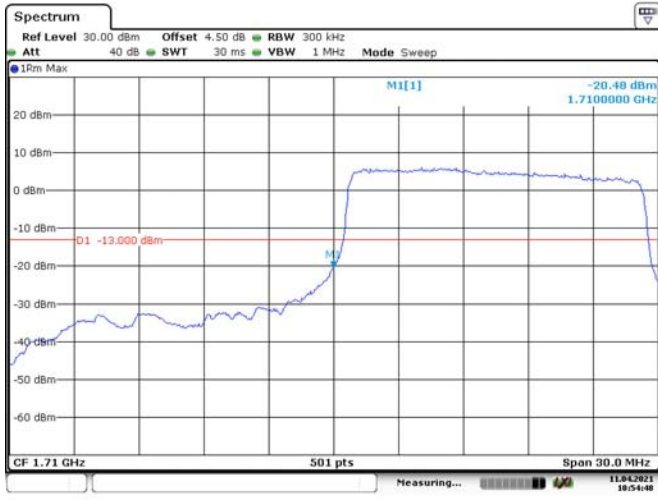
10M, QPSK, Left Band Edge



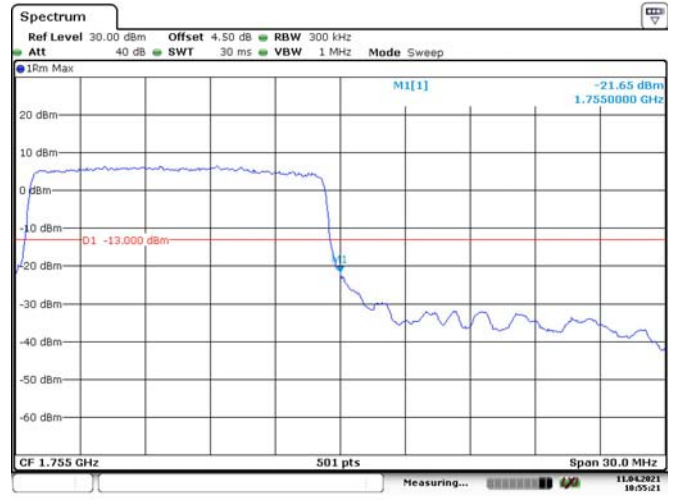
10M, QPSK, Right Band Edge



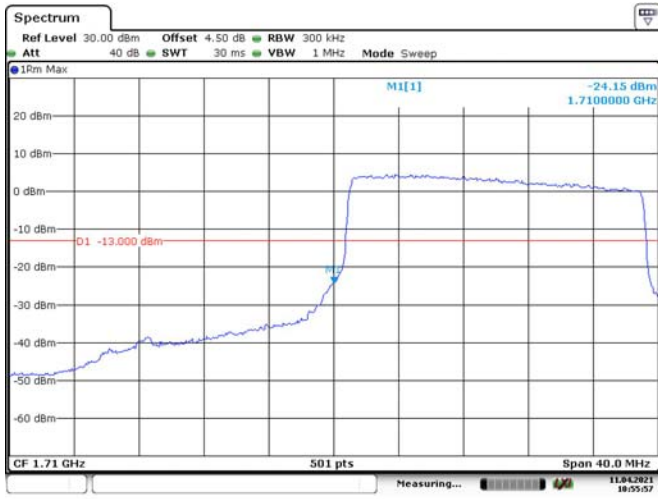
15M, QPSK, Left Band Edge



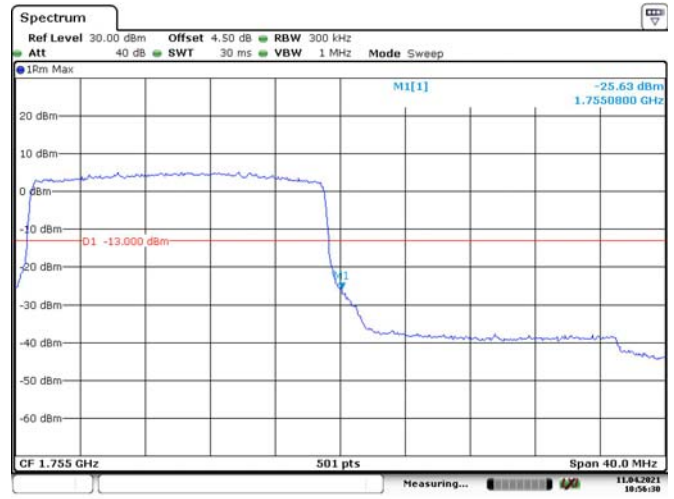
15M, QPSK, Right Band Edge



20M, QPSK, Left Band Edge

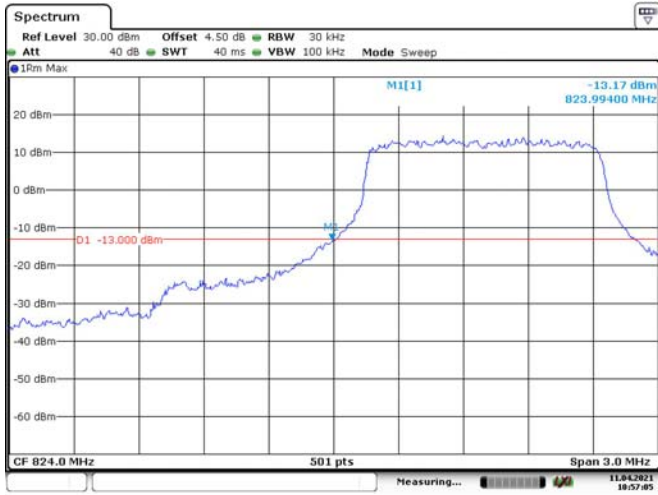


20M, QPSK, Right Band Edge



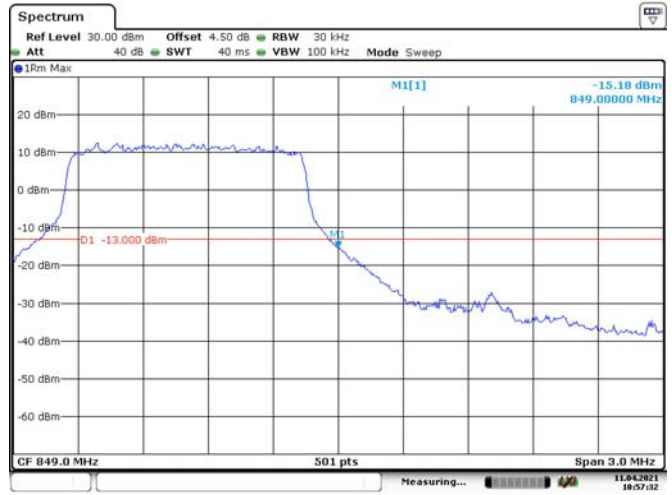
**LTE Band 5:**

**1.4M, QPSK, Left Band Edge**



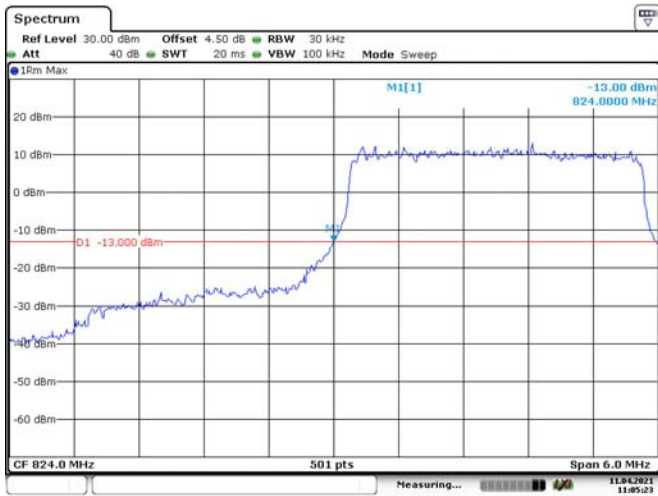
Date: 11.APR.2021 10:57:06

**1.4M, QPSK, Right Band Edge**



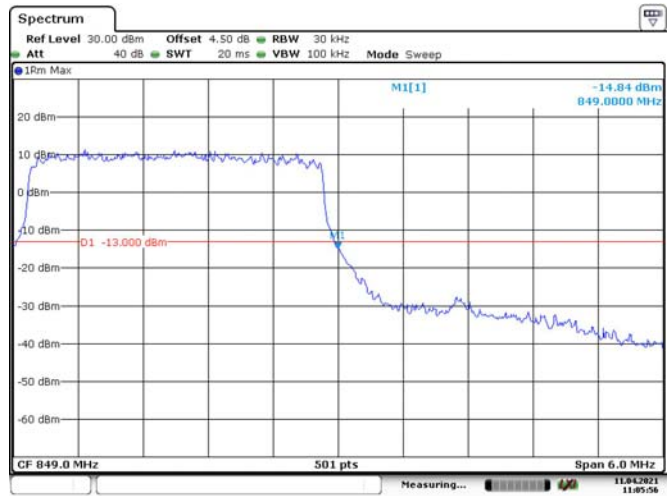
Date: 11.APR.2021 10:57:32

**3M, QPSK, Left Band Edge**



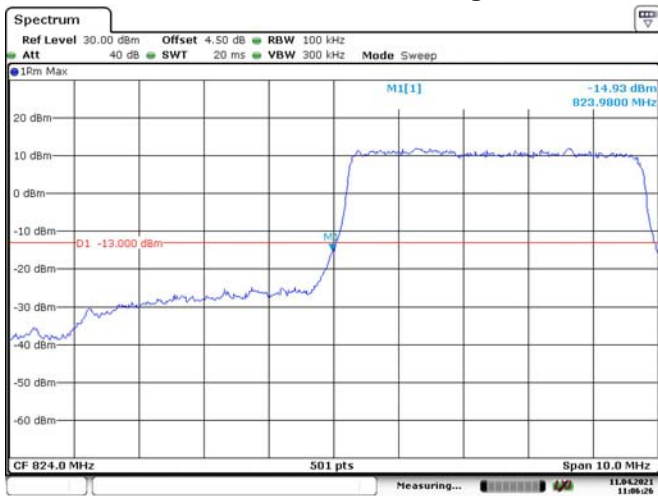
Date: 11.APR.2021 11:05:24

**3M, QPSK, Right Band Edge**



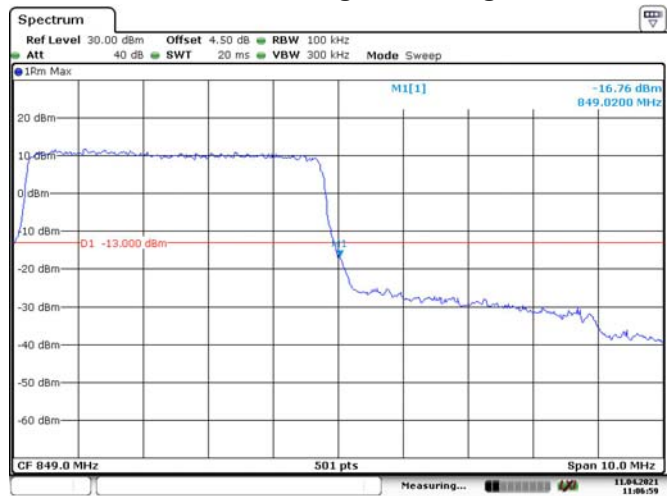
Date: 11.APR.2021 11:05:57

**5M, QPSK, Left Band Edge**



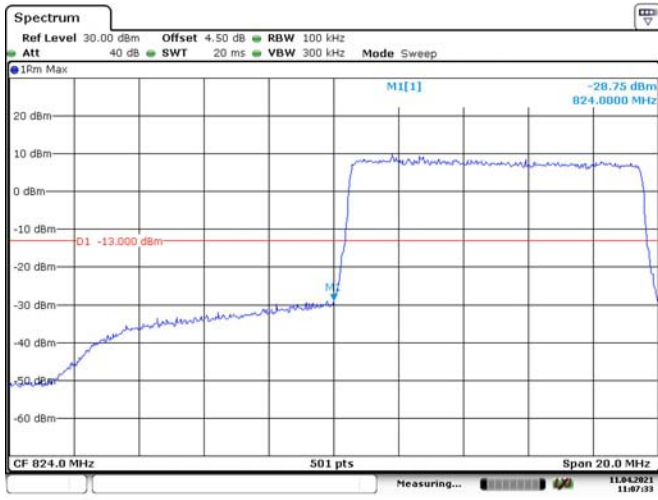
Date: 11.APR.2021 11:06:27

**5M, QPSK, Right Band Edge**



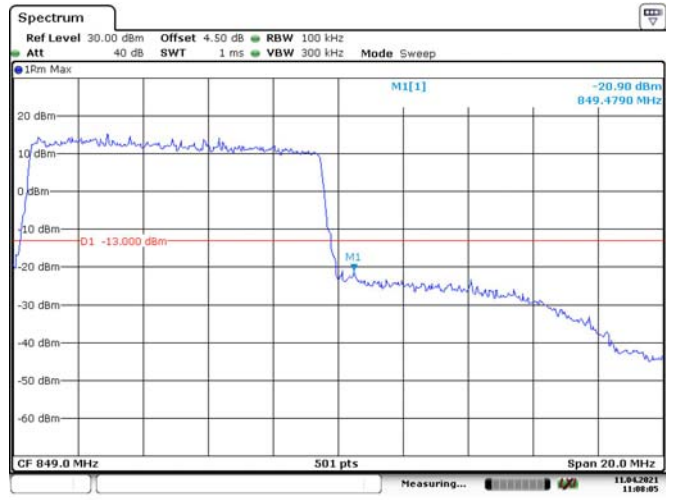
Date: 11.APR.2021 11:07:00

### 10M, QPSK, Left Band Edge



Date: 11.APR.2021 11:07:34

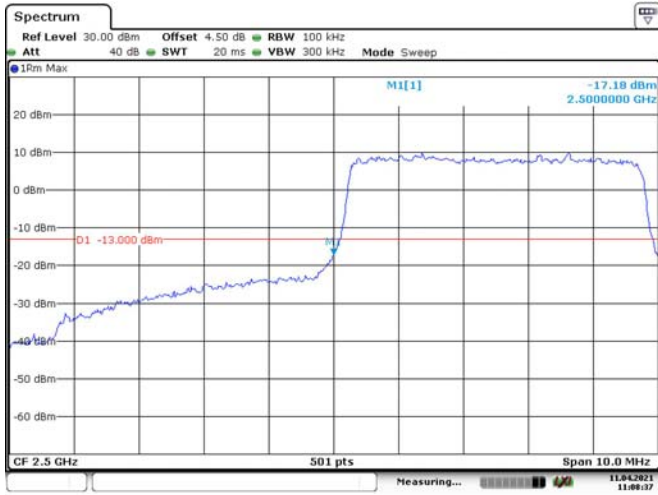
### 10M, QPSK, Right Band Edge



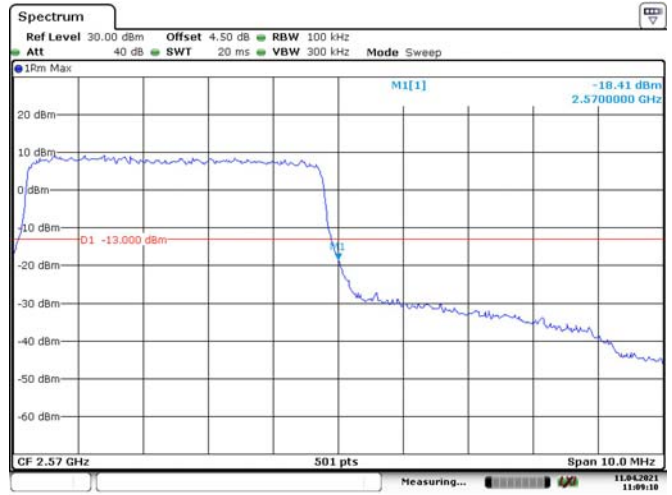
Date: 11.APR.2021 11:08:06

**LTE Band 7:**

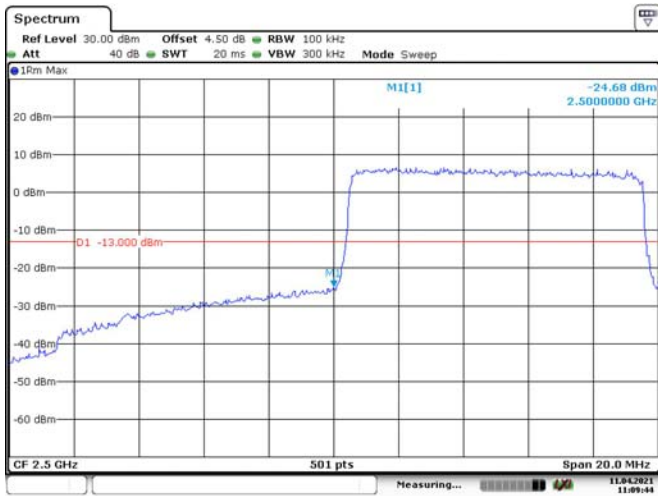
**5M, QPSK, Left Band Edge**



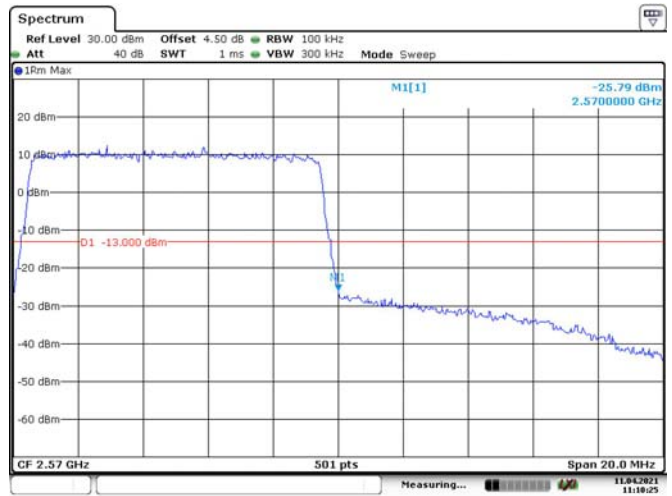
**5M, QPSK, Right Band Edge**



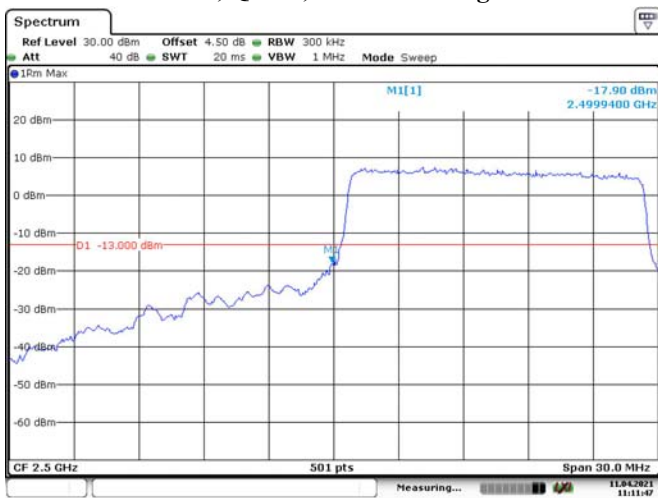
**10M, QPSK, Left Band Edge**



**10M, QPSK, Right Band Edge**



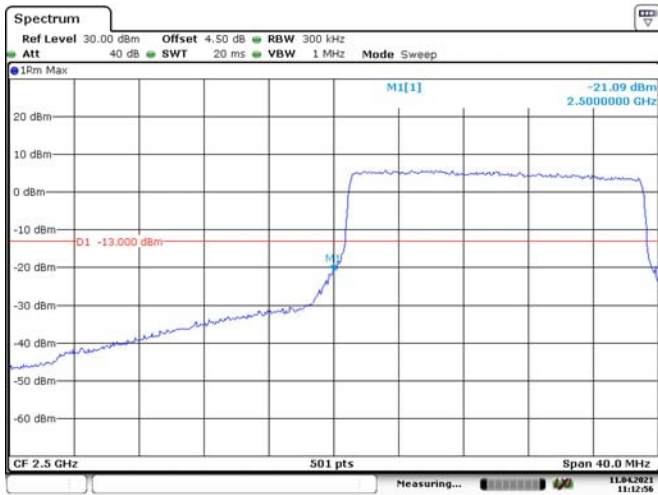
**15M, QPSK, Left Band Edge**



**15M, QPSK, Right Band Edge**

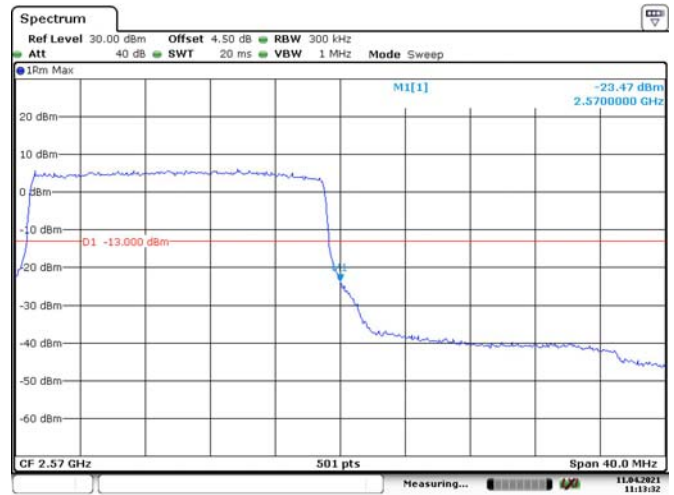


### 20M, QPSK, Left Band Edge



Date: 11.APR.2021 11:12:56

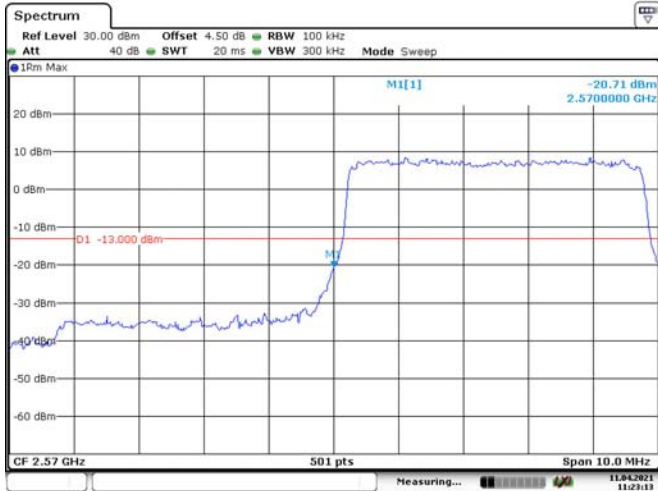
### 20M, QPSK, Right Band Edge



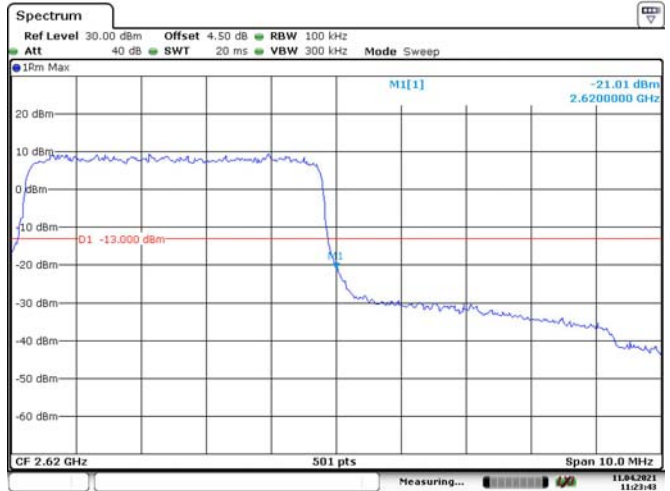
Date: 11.APR.2021 11:13:33

LTE Band 38:

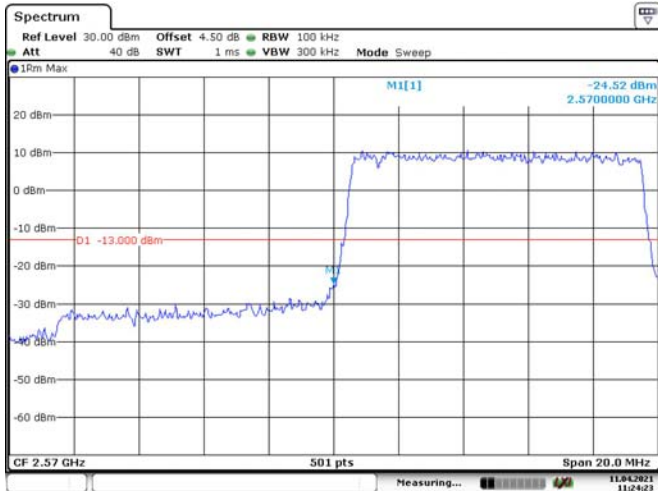
5M, QPSK, Left Band Edge



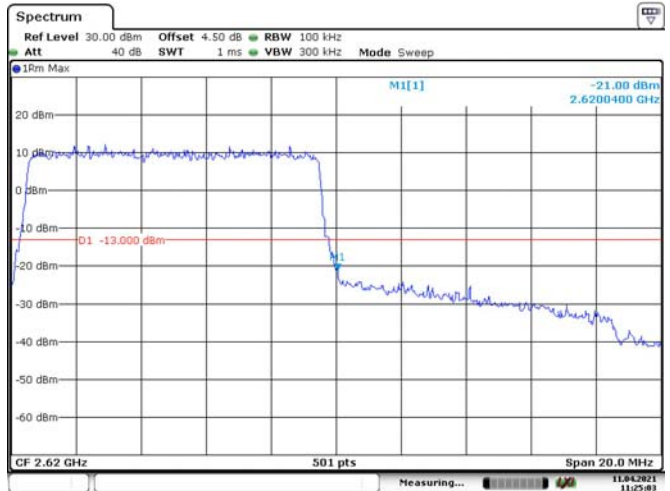
5M, QPSK, Right Band Edge



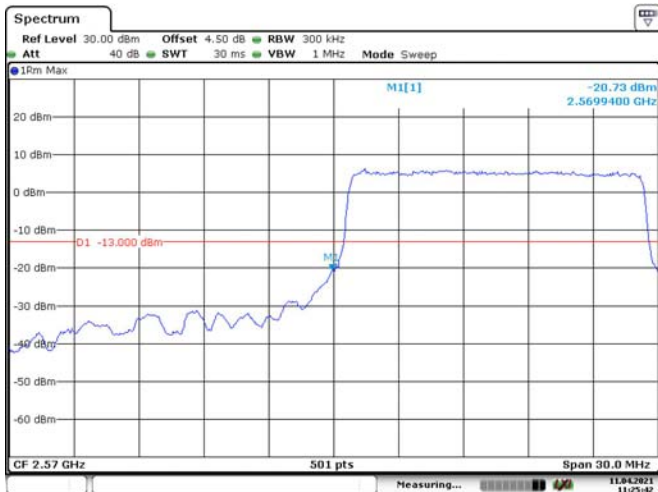
10M, QPSK, Left Band Edge



10M, QPSK, Right Band Edge



15M, QPSK, Left Band Edge

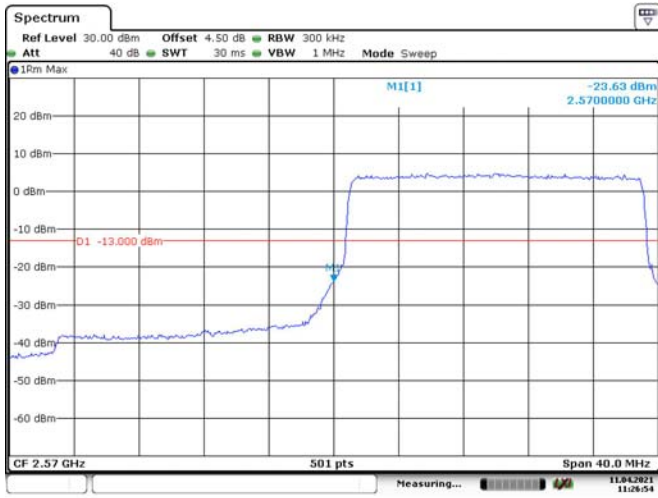


15M, QPSK, Right Band Edge





20M, QPSK, Left Band Edge



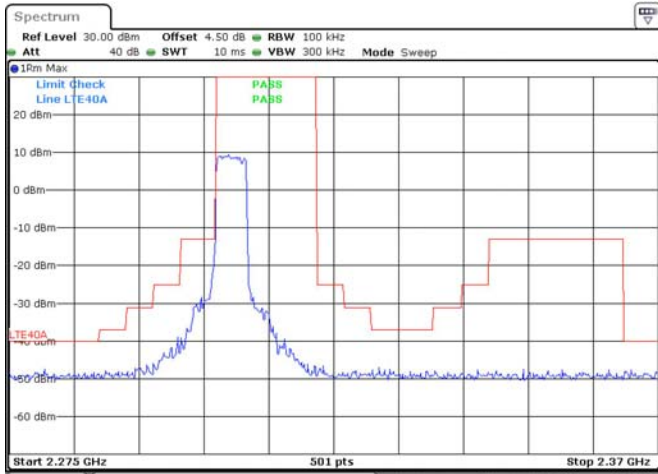
Date: 11.APR.2021 11:26:54

20M, QPSK, Right Band Edge

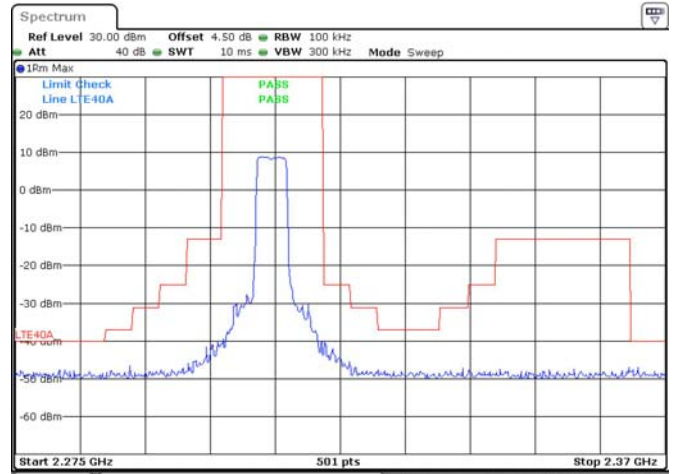


Date: 11.APR.2021 11:27:42

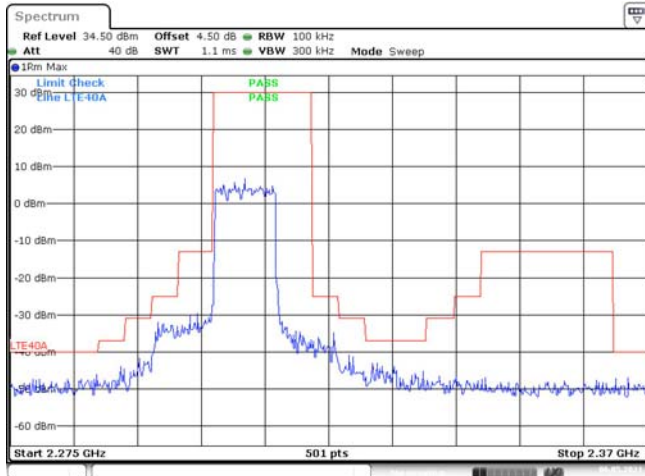
### LTE Band 40 Lower: 5M, QPSK, Left Band Edge



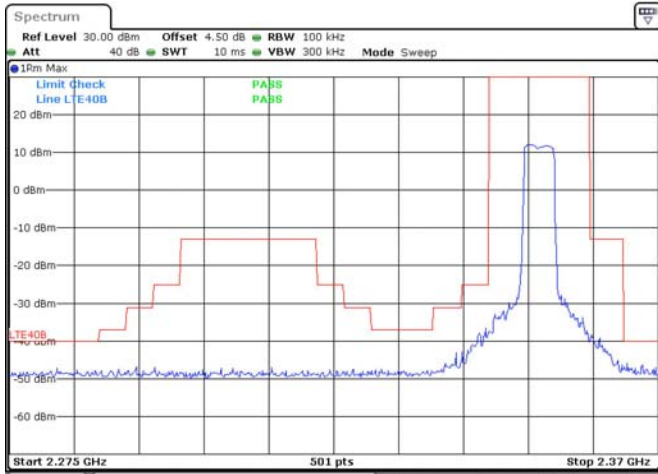
### 5M, QPSK, Right Band Edge



### 10M, QPSK

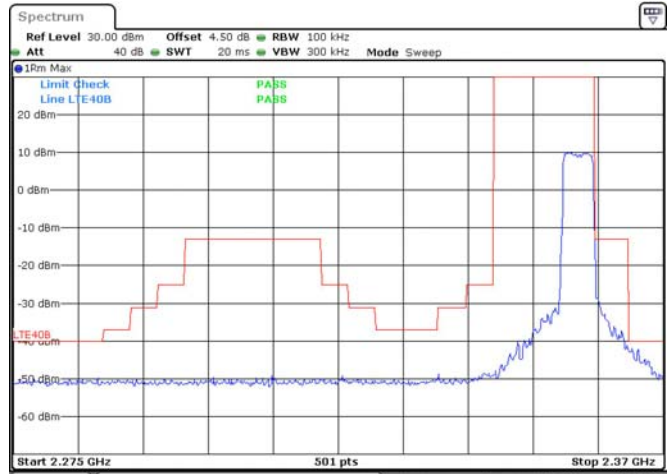


### LTE Band 40 Upper: 5M, QPSK, Left Band Edge



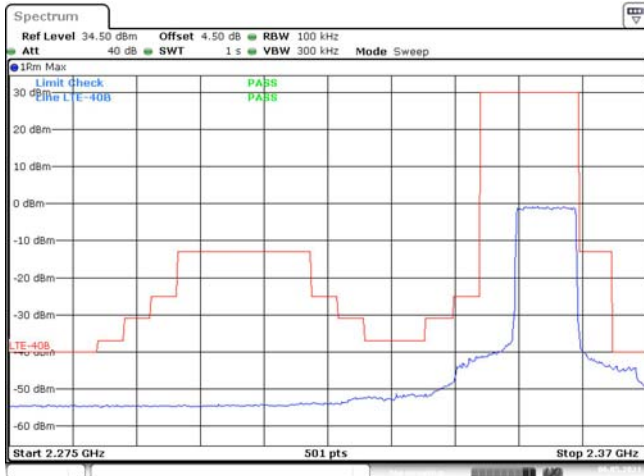
Date: 11.APR.2021 15:52:02

### 5M, QPSK, Right Band Edge



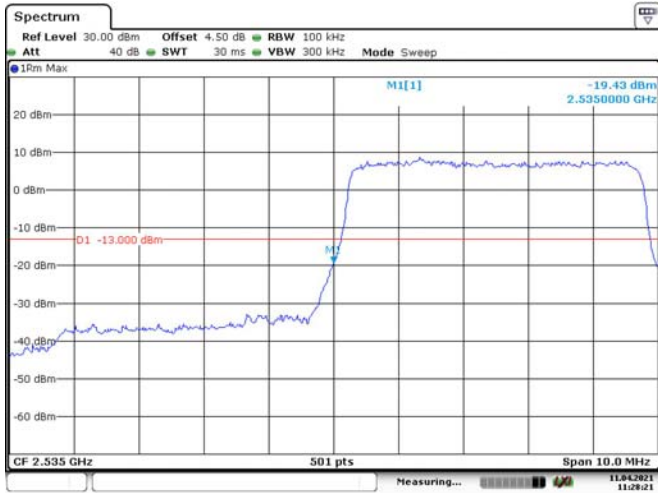
Date: 11.APR.2021 15:52:57

### 10M, QPSK

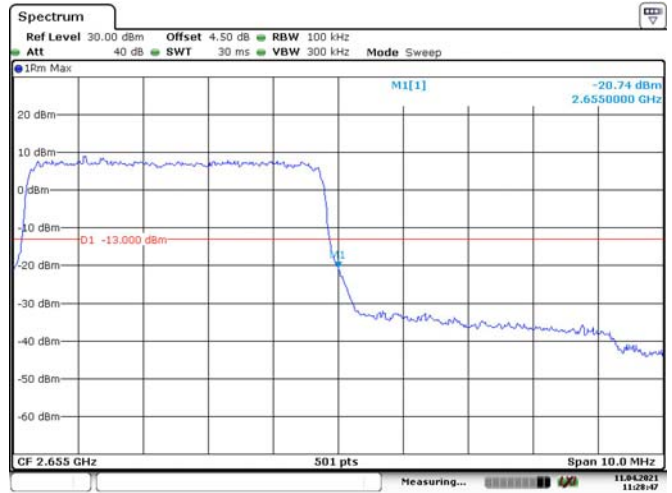


Date: 6.MAY.2021 14:31:18

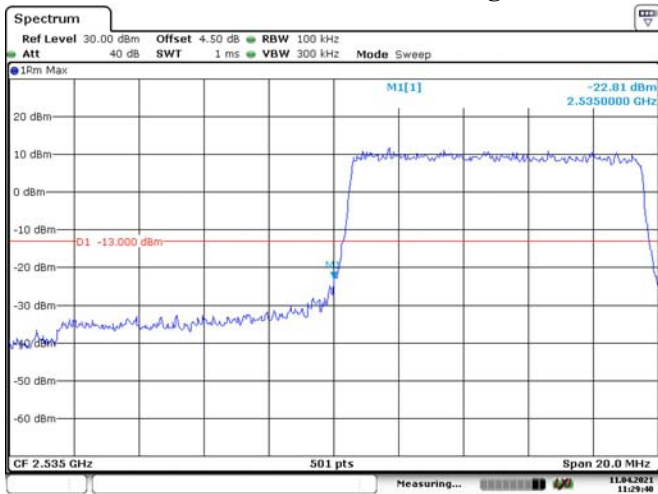
### LTE Band 41: 5M, QPSK, Left Band Edge



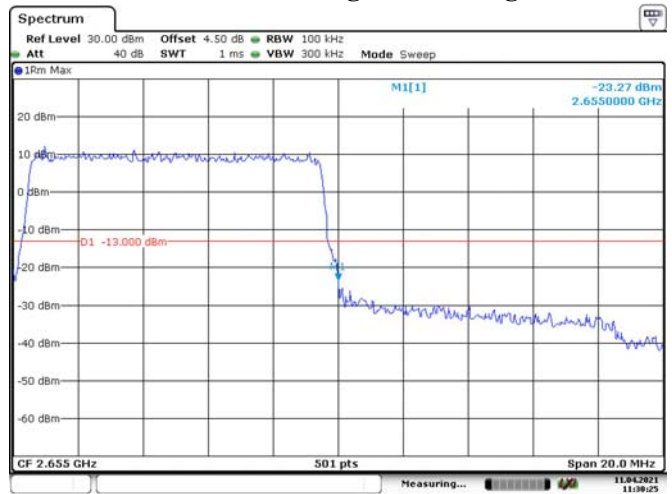
### 5M, QPSK, Right Band Edge



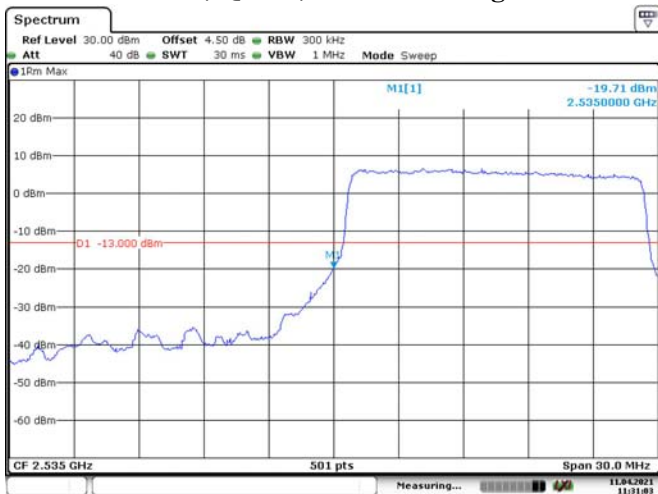
### 10M, QPSK, Left Band Edge



### 10M, QPSK, Right Band Edge



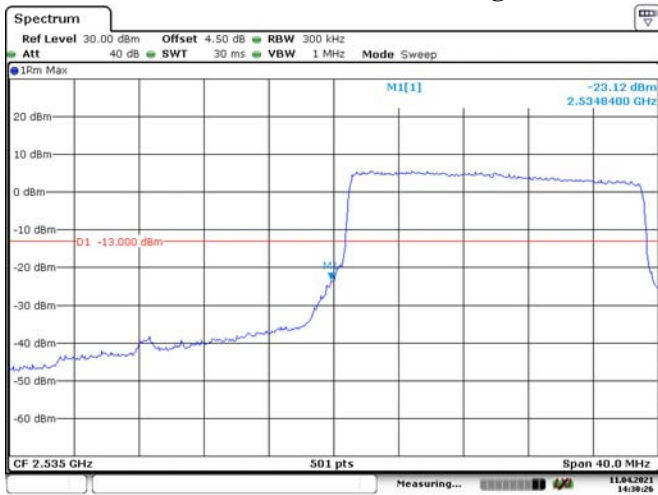
### 15M, QPSK, Left Band Edge



### 15M, QPSK, Right Band Edge

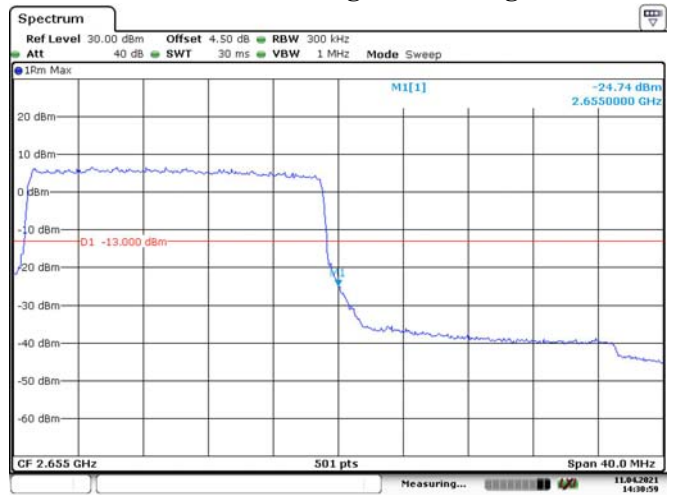


### 20M, QPSK, Left Band Edge



Date: 11.APR.2021 14:30:26

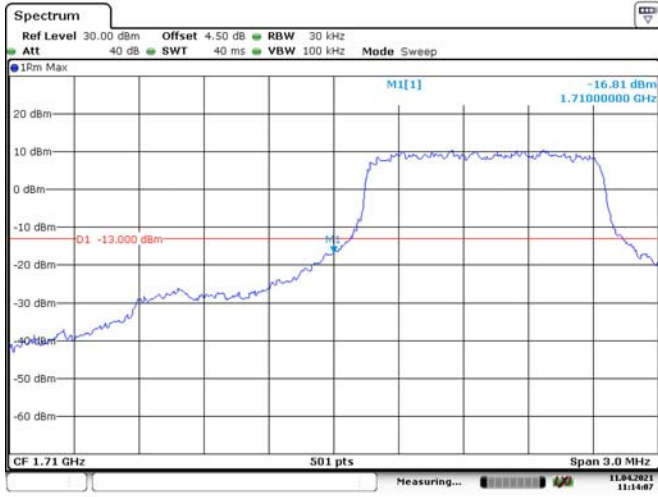
### 20M, QPSK, Right Band Edge



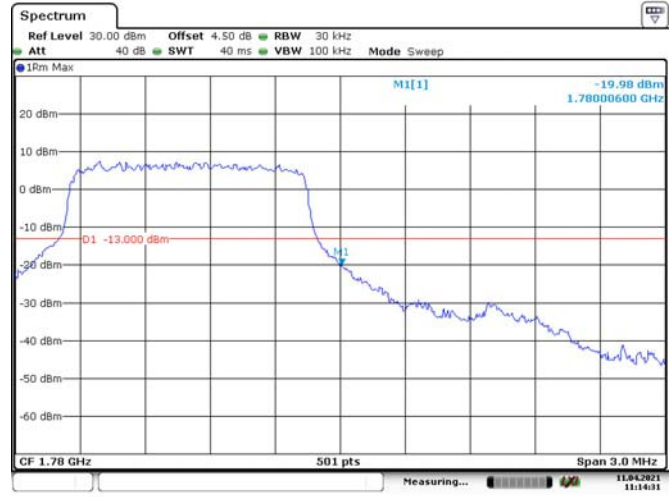
Date: 11.APR.2021 14:30:59

**LTE Band 66:**

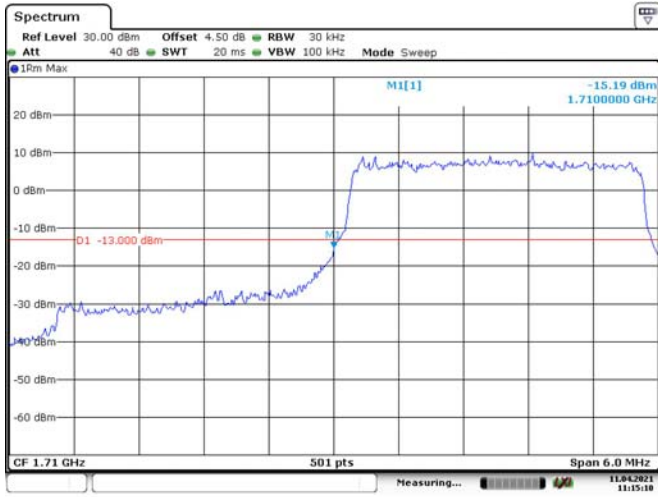
**1.4M, QPSK, Left Band Edge**



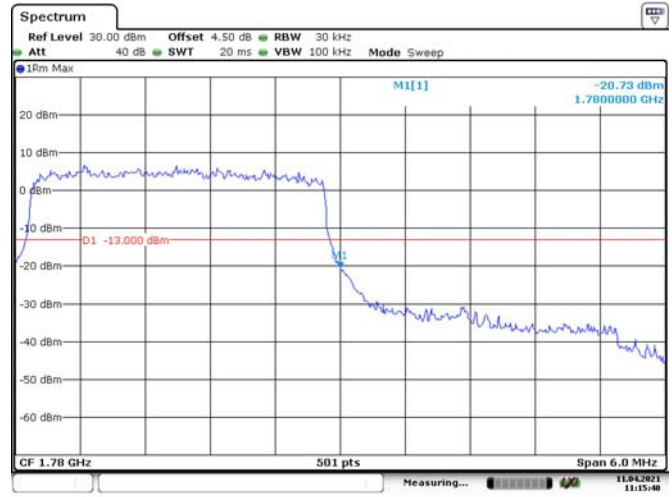
**1.4M, QPSK, Right Band Edge**



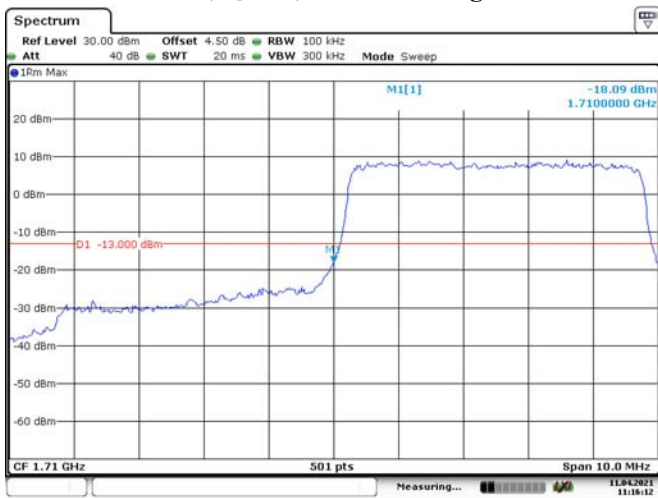
**3M, QPSK, Left Band Edge**



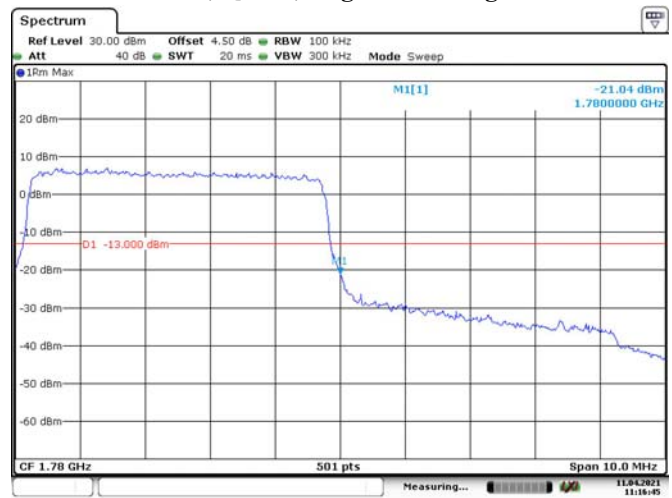
**3M, QPSK, Right Band Edge**



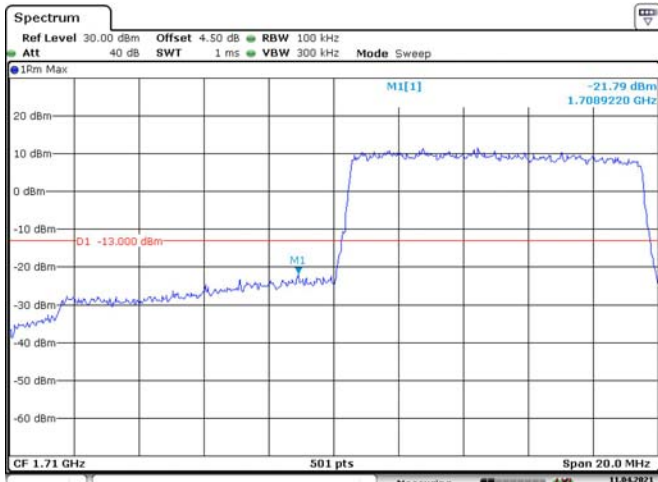
**5M, QPSK, Left Band Edge**



**5M, QPSK, Right Band Edge**

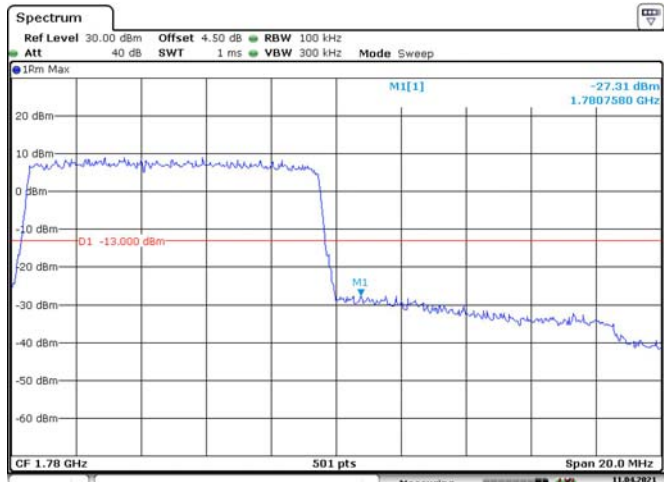


10M, QPSK, Left Band Edge



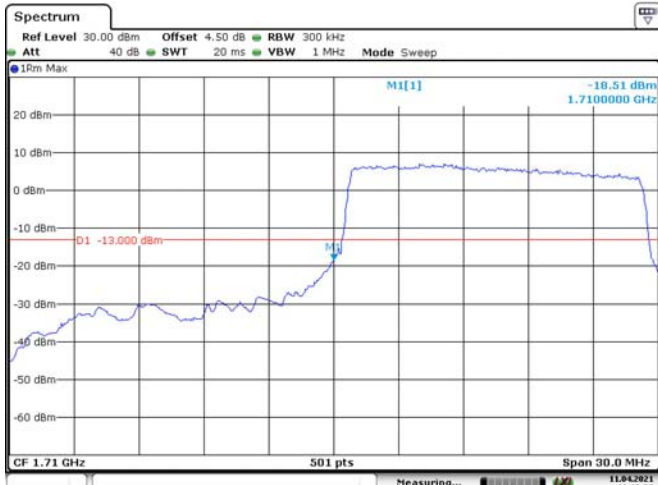
Date: 11.APR.2021 11:17:22

10M, QPSK, Right Band Edge



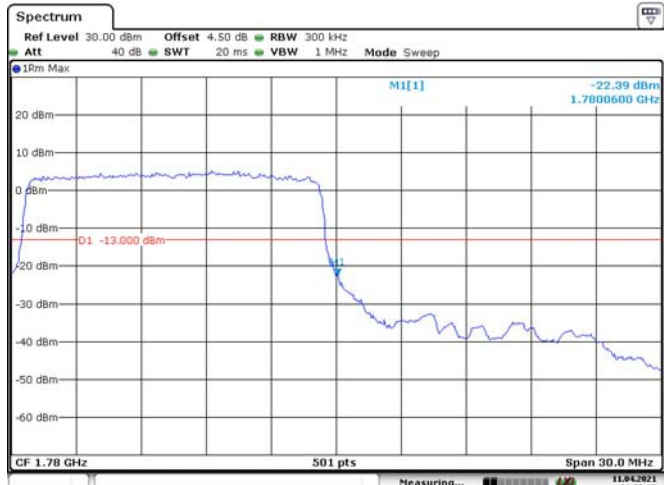
Date: 11.APR.2021 11:17:57

15M, QPSK, Left Band Edge



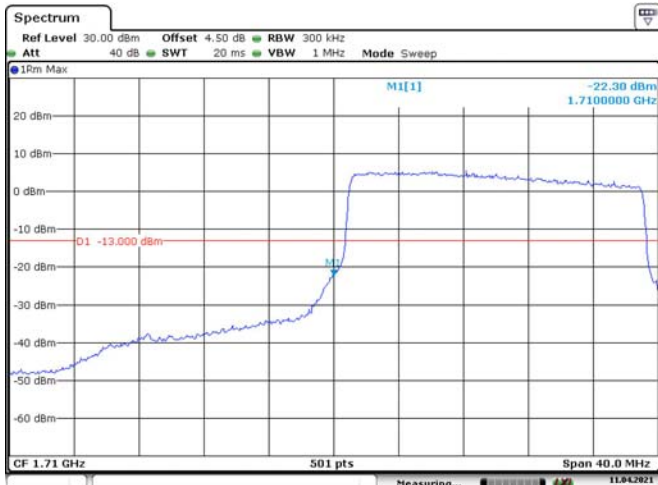
Date: 11.APR.2021 11:18:33

15M, QPSK, Right Band Edge



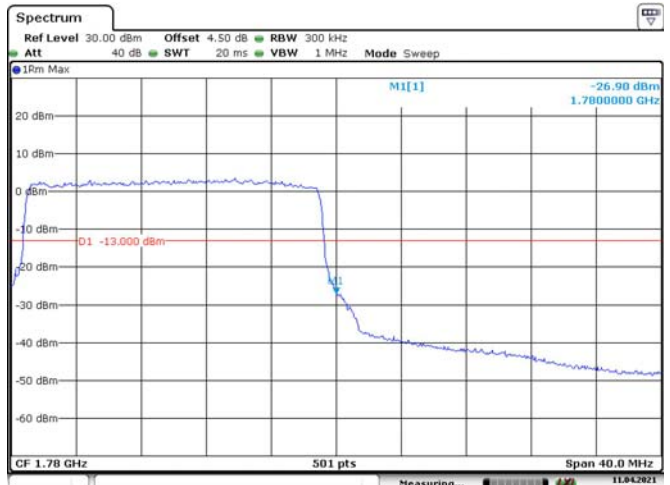
Date: 11.APR.2021 11:20:15

20M, QPSK, Left Band Edge



Date: 11.APR.2021 11:20:51

20M, QPSK, Right Band Edge



Date: 11.APR.2021 11:21:24

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**FCC §2.1055, §22.355 & §24.235 & §27.54 - FREQUENCY STABILITY**

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**Applicable Standard**

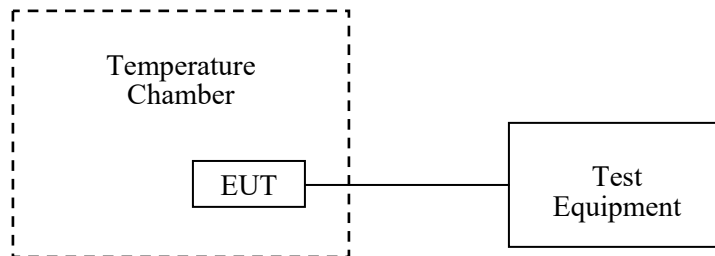
FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54

**Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set from 85% to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.





**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2020-07-07	2021-07-07
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	147473	2020-09-23	2021-09-22
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-12	2021-09-12
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2021-03-10	2022-03-09
UNI-T	Multimeter	UT39A	M130199938	2020-07-24	2021-07-24
Pro instrument	DC Power Supply	pps3300	3300012	N/A	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**

<b>Temperature:</b>	23.6~26.2 °C
<b>Relative Humidity:</b>	54~67 %
<b>ATM Pressure:</b>	100.8~101.9kPa
<b>Tester:</b>	Theshy Xie
<b>Test Date:</b>	2021-04-03~2021.04-13

*Test Result: Compliance.*

<b>GMSK, Middle Channel, <math>f_c = 836.6</math> MHz</b>				
<b>Temperature</b>	<b>Voltage</b>	<b>Frequency Error</b>	<b>Frequency Error</b>	<b>Limit</b>
<b>°C</b>	<b>V<sub>DC</sub></b>	<b>Hz</b>	<b>ppm</b>	<b>ppm</b>
-30	3.8	6	0.00717	2.5
-20		-8	-0.00956	
-10		-9	-0.01076	
0		3	0.00359	
10		1	0.00120	
20		2	0.00239	
30		3	0.00359	
40		9	0.01076	
50		8	0.00956	
20		3.4	4	
20	4.2	-2	-0.00239	

<b>GMSK, Middle Channel, <math>f_c = 1880</math> MHz</b>				
<b>Temperature</b>	<b>Voltage</b>	<b>Frequency Error</b>	<b>Frequency Error</b>	<b>Result</b>
<b>°C</b>	<b>V<sub>DC</sub></b>	<b>Hz</b>	<b>ppm</b>	
-30	3.8	4	0.00213	Pass
-20		1	0.00053	
-10		-5	-0.00266	
0		-9	-0.00479	
10		1	0.00053	
20		-4	-0.00213	
30		5	0.00266	
40		-3	-0.00160	
50		-7	-0.00372	
20		3.4	0	
20	4.2	-4	-0.00213	

**LTE Band 2:**

QPSK, Channel Bandwidth:20MHz Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V <sub>DC</sub>	Hz	ppm	
-30	3.8	-3.46	-0.0018	Pass
-20		-7.66	-0.0041	
-10		-6.29	-0.0033	
0		-7.64	-0.0041	
10		-8.64	-0.0046	
20		9.69	0.0052	
30		7.70	0.0041	
40		7.44	0.004	
50		-9.28	-0.0049	
20		3.4	-9.19	
20	4.2	6.82	0.0036	

**LTE Band 4**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.435100	1710	1754.429800	1755
	-20	1710.493600		1754.459600	
	-10	1710.513400		1754.483000	
	0	1710.570200		1754.459600	
	10	1710.540400		1754.453200	
	20	1710.528900		1754.471100	
	30	1710.523400		1754.459600	
	40	1710.511700		1754.459600	
	50	1710.521700		1754.259600	
3.4	20	1710.513400		1754.476600	
4.2	20	1710.523400		1754.259600	

**LTE Band 5:**

Middle Channel, $f_c = 836.5$ MHz, Channel Bandwidth:10MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V <sub>DC</sub>	Hz	ppm	ppm
-30	3.8	0.30	0.0004	2.5
-20		8.60	0.0103	
-10		-9.50	-0.0114	
0		6.95	0.0083	
10		-7.03	-0.0084	
20		-9.47	-0.0113	
30		7.54	0.009	
40		6.74	0.0081	
50		5.69	0.0068	
20		3.4	5.85	
20	4.2	8.56	0.0102	

**LTE Band 7**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2500.505600	2500	2569.476600	2570
	-20	2500.538400		2569.483000	
	-10	2500.579200		2569.429800	
	0	2500.632000		2569.483000	
	10	2500.505600		2569.453200	
	20	2500.568900		2569.431100	
	30	2500.558400		2569.459600	
	40	2500.555600		2569.429800	
50	2500.505600	2569.459600			
3.4	20	2500.515600		2569.476600	
4.2	20	2500.584800		2569.459600	

**LTE Band 38**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2570.558400	2570	2619.506400	2620
	-20	2570.548400		2619.459600	
	-10	2570.534200		2619.483000	
	0	2570.547200		2619.506400	
	10	2570.558400		2619.453200	
	20	2570.528900		2619.471100	
	30	2570.539200		2619.383000	
	40	2570.519200		2619.429800	
50	2570.523200	2619.476600			
3.4	20	2570.579200		2619.483000	
4.2	20	2570.579200		2619.459600	

**LTE Band 40 Lower:**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2305.569300	2305	2314.464000	2315
	-20	2305.246200		2314.482000	
	-10	2305.492400		2314.405000	
	0	2305.569300		2314.423000	
	10	2305.492400		2314.405000	
	20	2305.568900		2314.471100	
	30	2305.492400		2314.423000	
	40	2305.569300		2314.423000	
50	2305.515500	2314.423000			
3.4	20	2305.538600		2314.482000	
4.2	20	2305.525500		2314.423000	

**LTE Band 40 Upper:**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2350.569300	2350	2359.405000	2360
	-20	2350.492400		2359.423000	
	-10	2350.515500		2359.423000	
	0	2350.538600		2359.482000	
	10	2350.515500		2359.441300	
	20	2350.528900		2359.431100	
	30	2350.515500		2359.414600	
	40	2350.515500		2359.417050	
3.4	20	2350.515500		2359.416400	
4.2	20	2350.492400		2359.428200	
				2359.410500	

**LTE Band 41:**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2535.492400	2535.00	2654.421400	2655
	-20	2535.546200		2654.412700	
	-10	2535.738600		2654.413100	
	0	2535.492400		2654.412500	
	10	2535.491400		2654.454500	
	20	2535.528900		2654.548900	
	30	2535.369300		2654.516500	
	40	2535.492400		2654.413500	
3.4	20	2535.538600		2654.410200	
4.2	20	2535.493400		2654.542700	
				2654.541700	

**LTE Band 66:**

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F <sub>L</sub>	Limit	F <sub>H</sub>	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.563300	1710.00	1779.416500	1780
	-20	1710.546300		1779.437500	
	-10	1710.546600		1779.435500	
	0	1710.581500		1779.421700	
	10	1710.547600		1779.550000	
	20	1710.568900		1779.431100	
	30	1710.561500		1779.426500	
	40	1710.554500		1779.421600	
3.4	20	1710.564300		1779.427500	
4.2	20	1710.562300		1779.427000	
				1779.612500	

Note: The fundamental emissions stay within the authorized bands of operation based on the frequency deviation measured is small, the extreme voltage was declared by applicant.

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