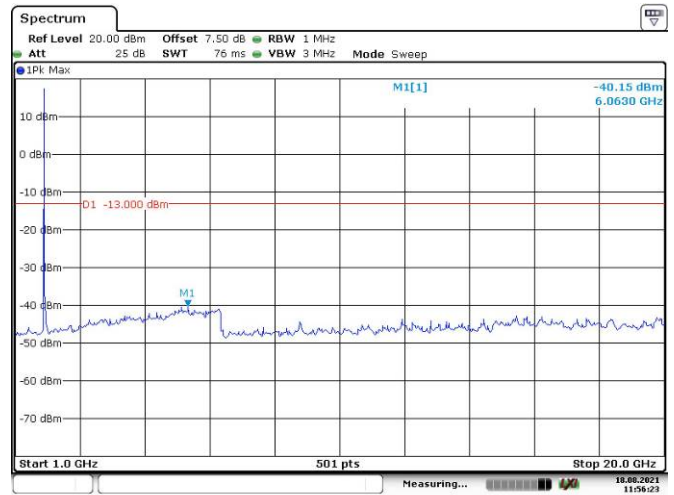
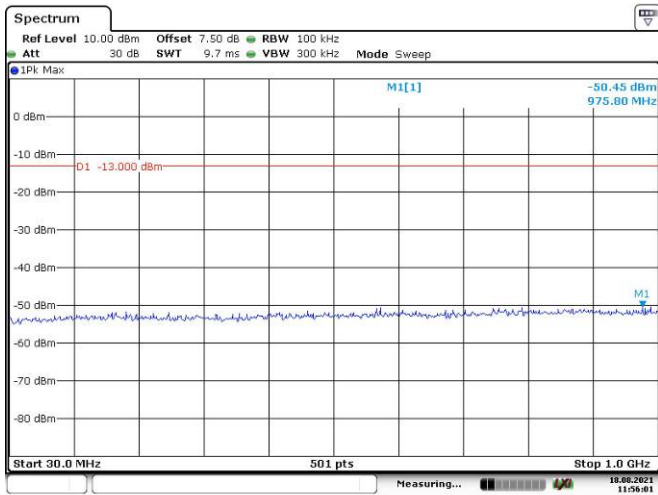
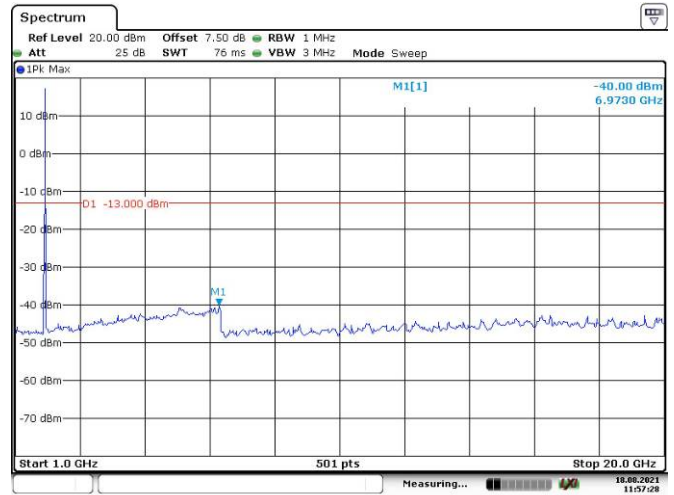
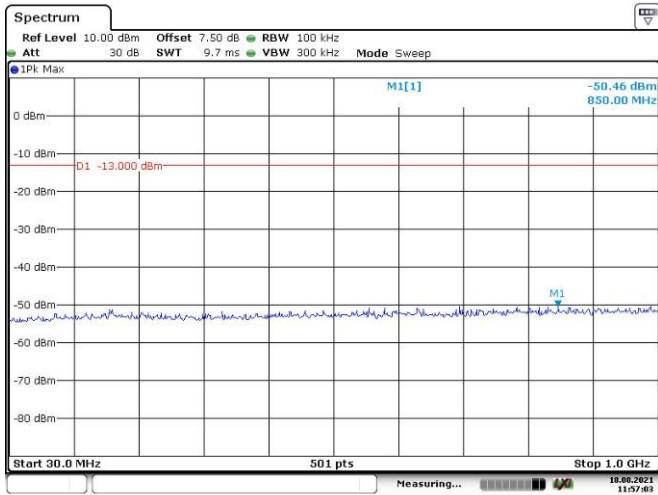


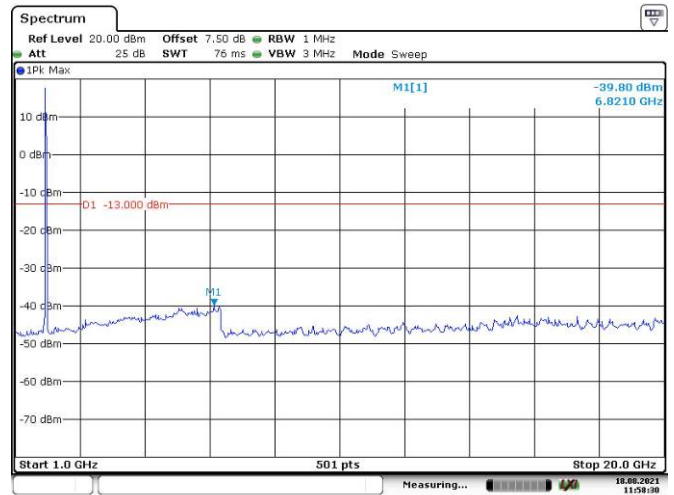
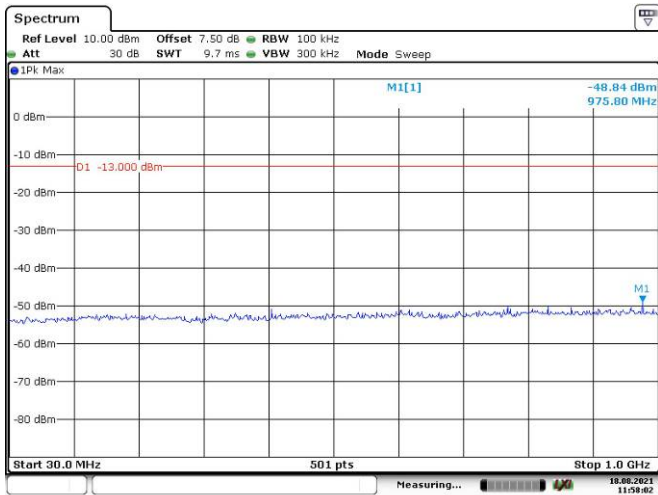
10M, QPSK, Low Channel



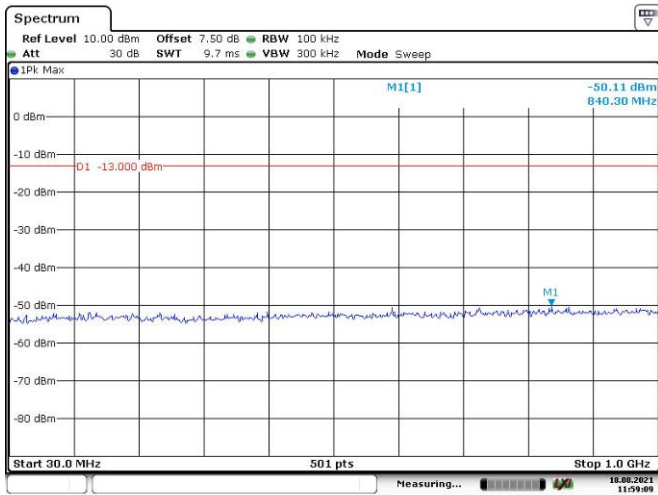
10M, QPSK, Middle Channel



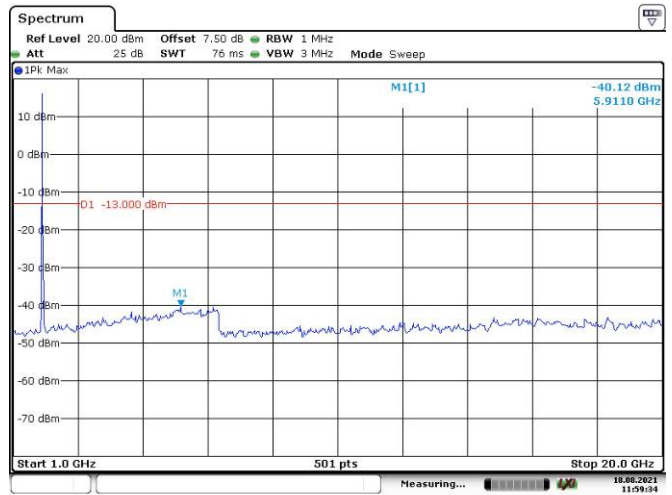
10M, QPSK, High Channel



15M, QPSK, Low Channel

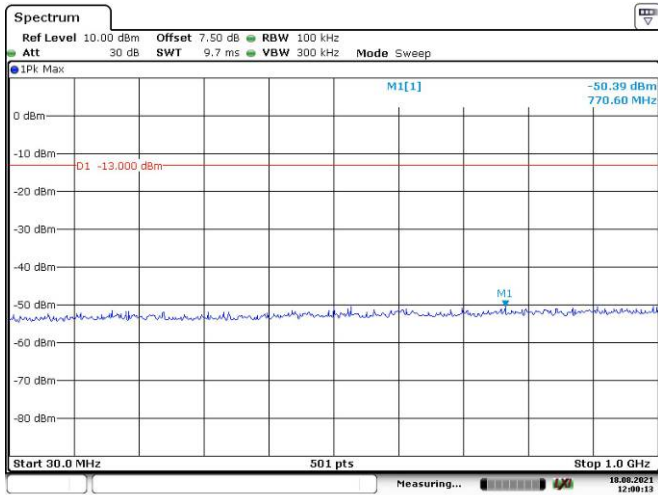


Date: 18.AUG.2021 11:59:09

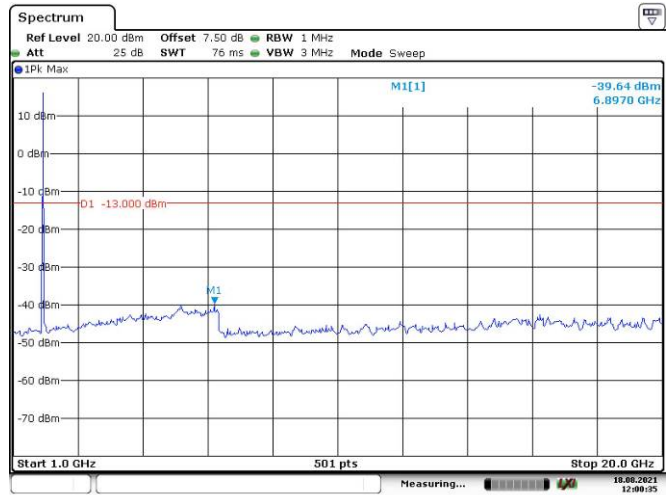


Date: 18.AUG.2021 11:59:34

15M, QPSK, Middle Channel

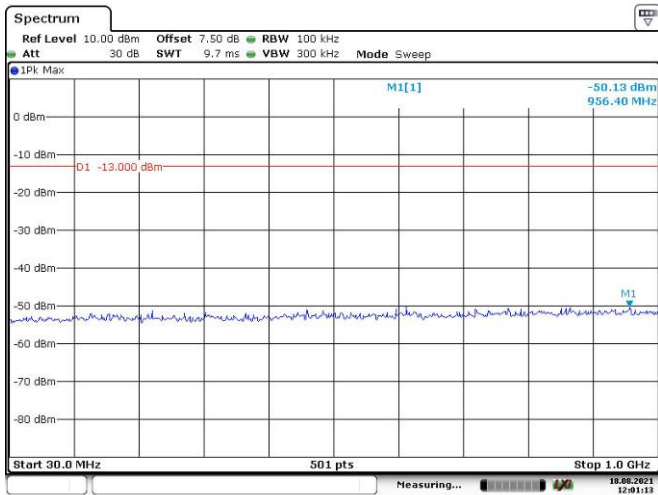


Date: 18.AUG.2021 12:00:13

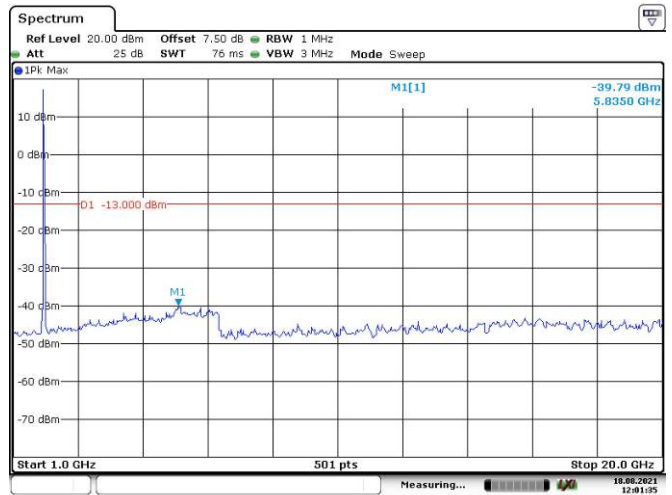


Date: 18.AUG.2021 12:00:35

15M, QPSK, High Channel

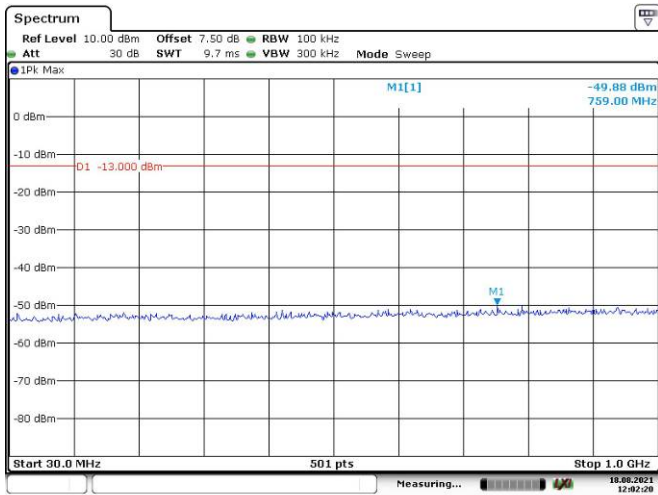


Date: 18.AUG.2021 12:01:13

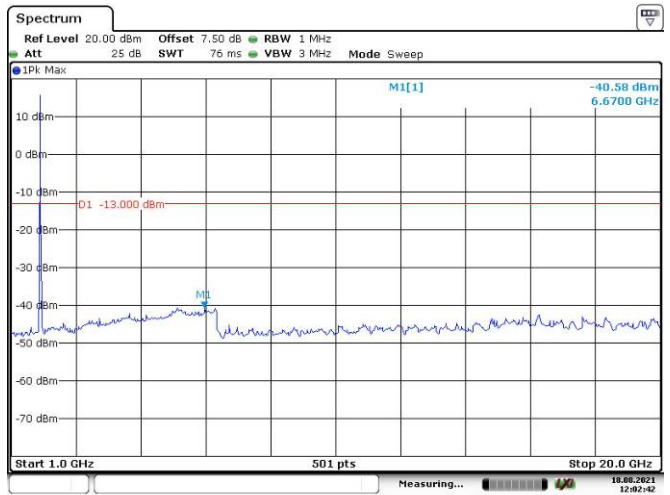


Date: 18.AUG.2021 12:01:35

20M, QPSK, Low Channel

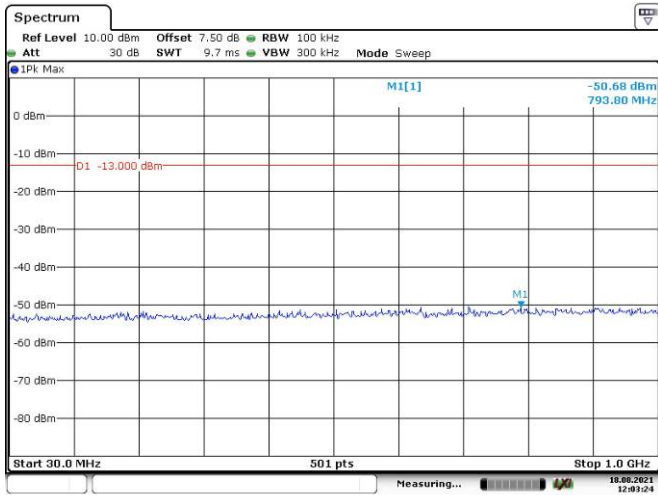


Date: 18.AUG.2021 12:02:20

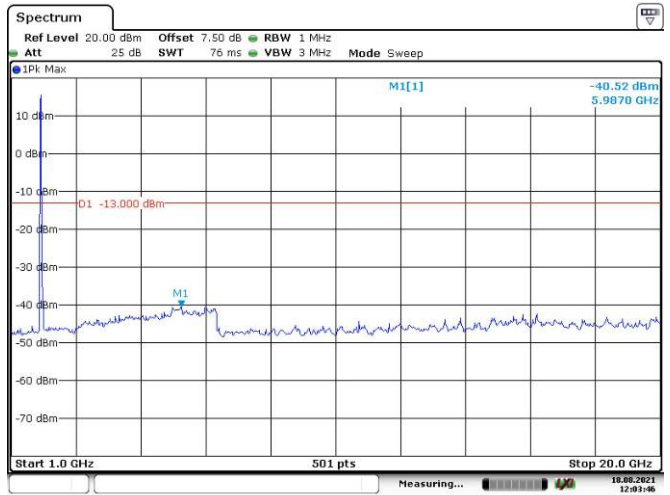


Date: 18.AUG.2021 12:02:42

20M, QPSK, Middle Channel

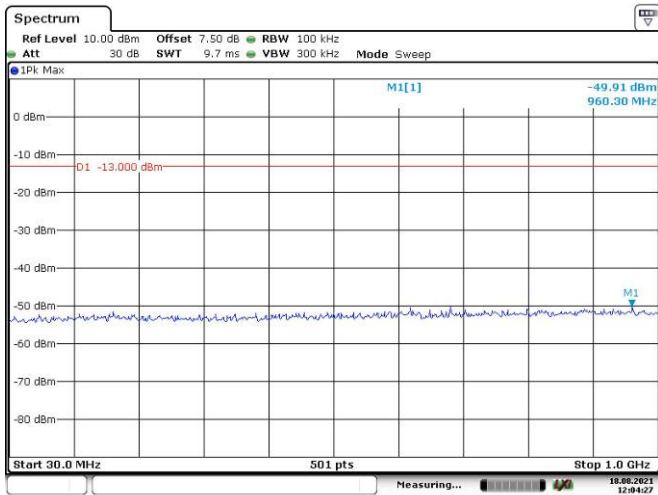


Date: 18.AUG.2021 12:03:24

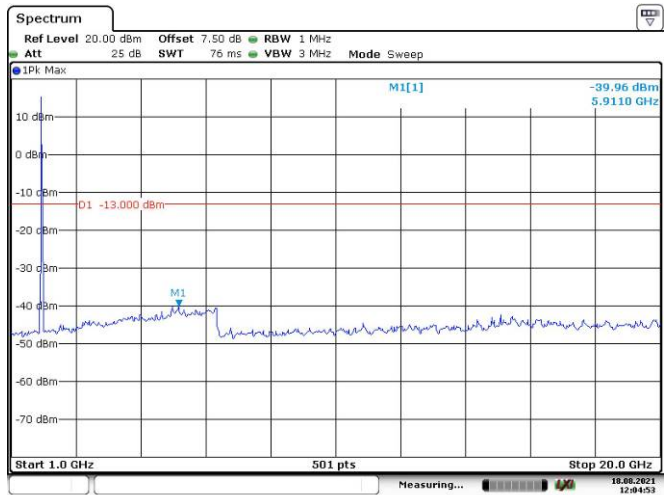


Date: 18.AUG.2021 12:03:46

20M, QPSK, High Channel



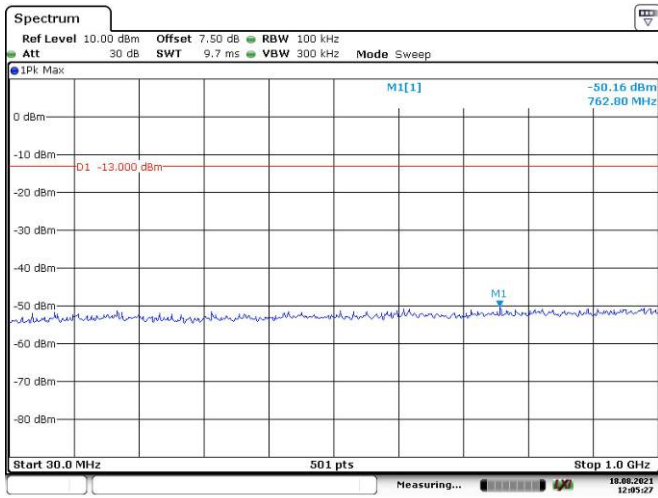
Date: 18.AUG.2021 12:04:27



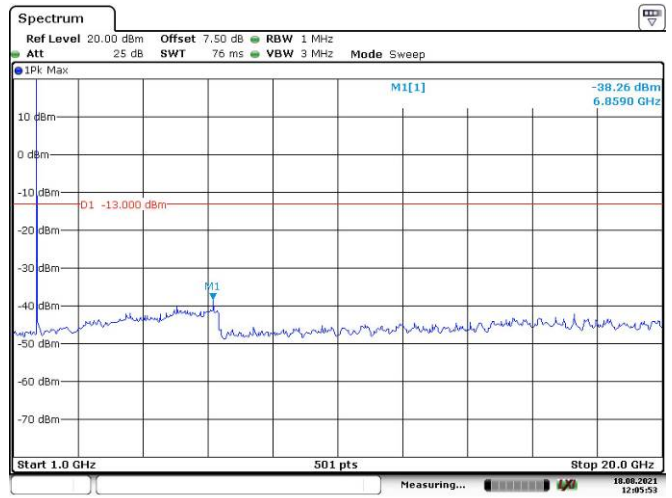
Date: 18.AUG.2021 12:04:53

LTE Band 4:

1.4M, QPSK, Low Channel

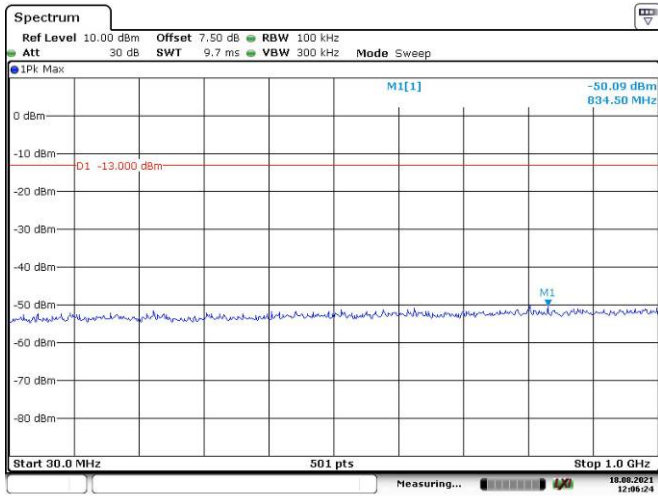


Date: 18.AUG.2021 12:05:28

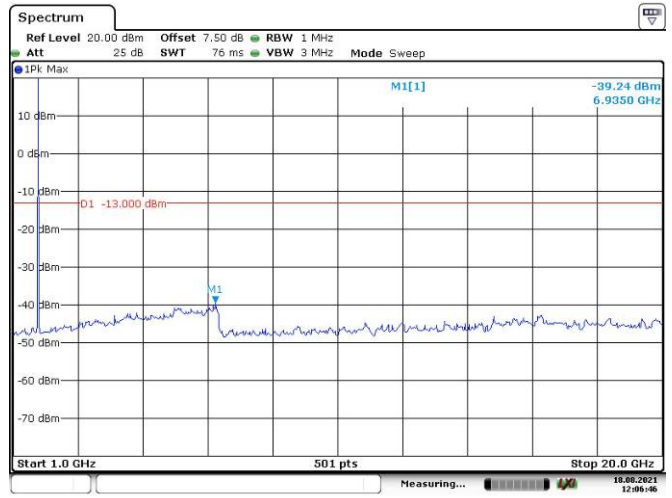


Date: 18.AUG.2021 12:05:53

1.4M, QPSK, Middle Channel

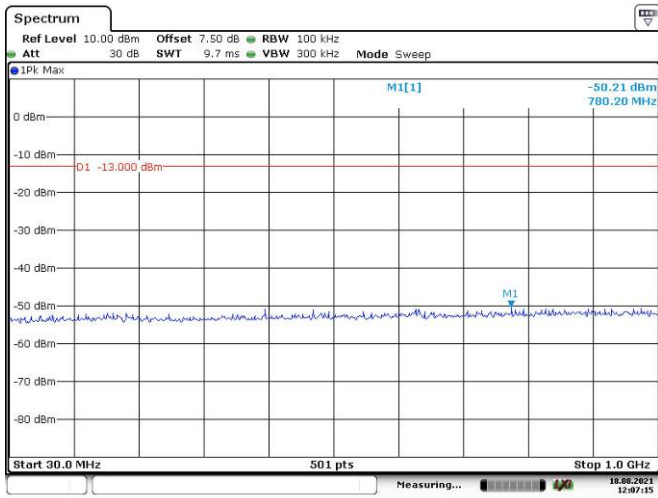


Date: 18.AUG.2021 12:06:24

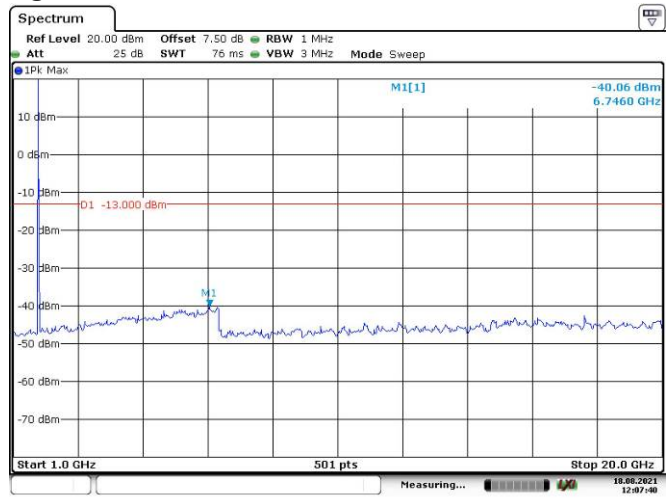


Date: 18.AUG.2021 12:06:46

1.4M, QPSK, High Channel

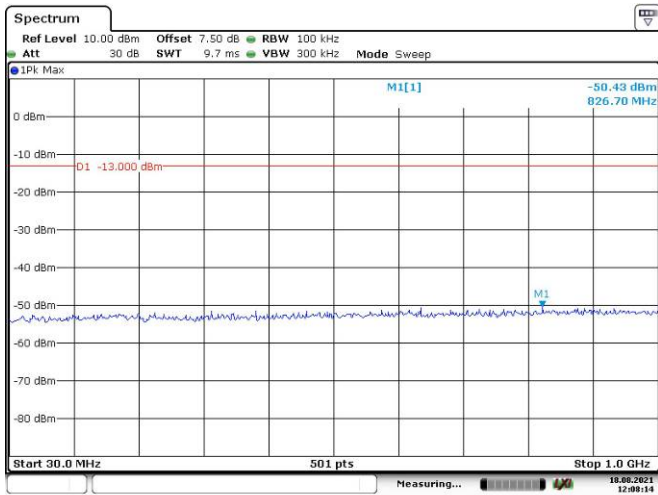


Date: 18.AUG.2021 12:07:15

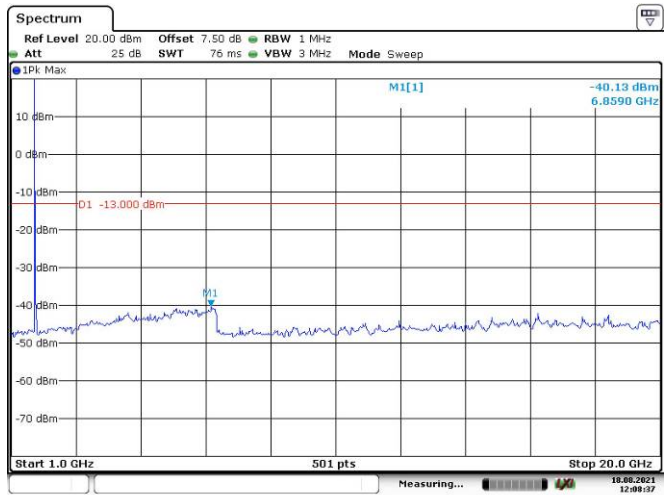


Date: 18.AUG.2021 12:07:40

3M, QPSK, Low Channel

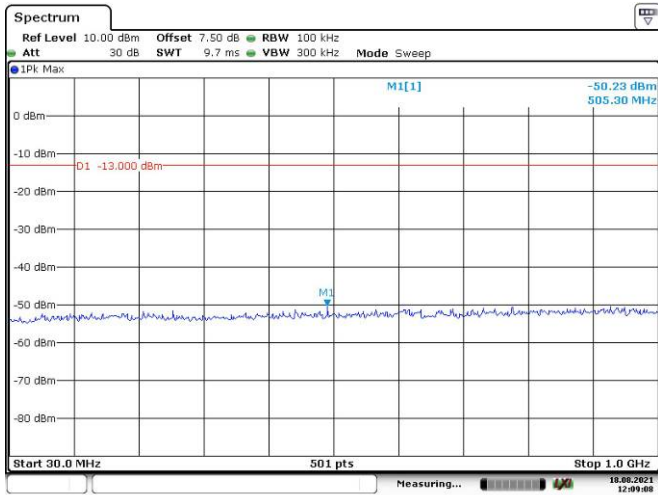


Date: 18.AUG.2021 12:08:15

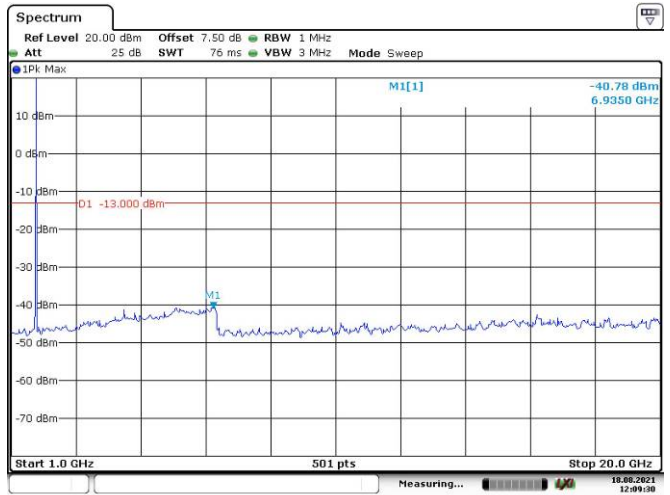


Date: 18.AUG.2021 12:08:37

3M, QPSK, Middle Channel

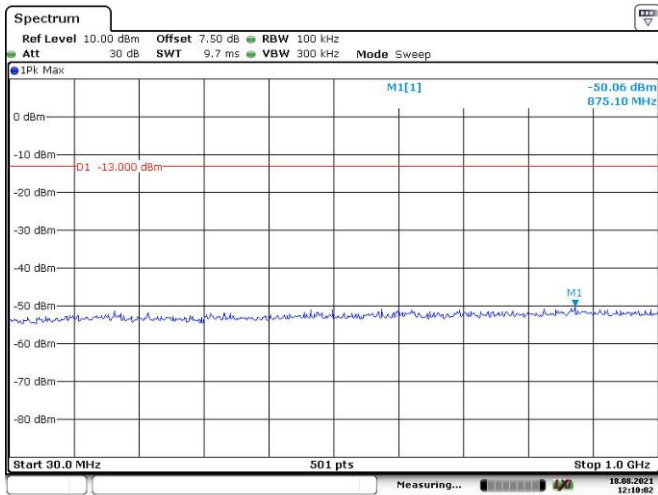


Date: 18.AUG.2021 12:09:08

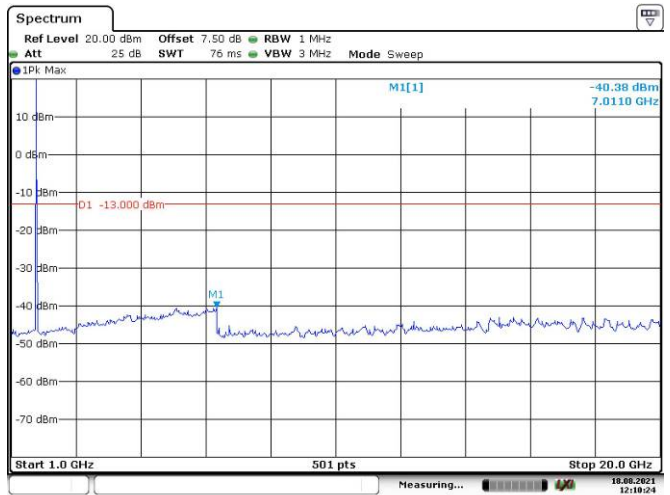


Date: 18.AUG.2021 12:09:31

3M, QPSK, High Channel

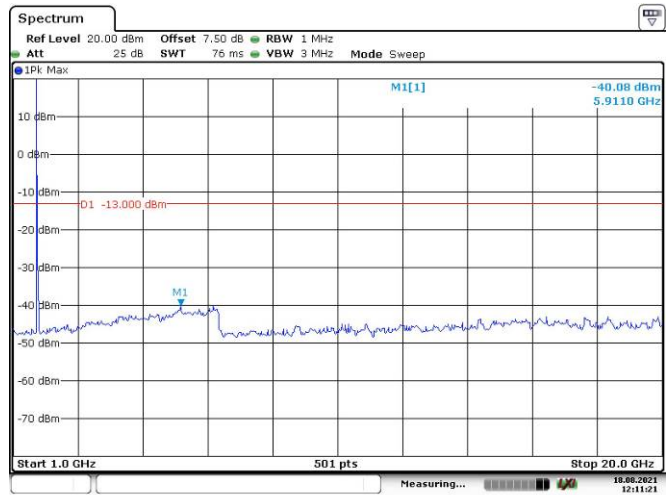
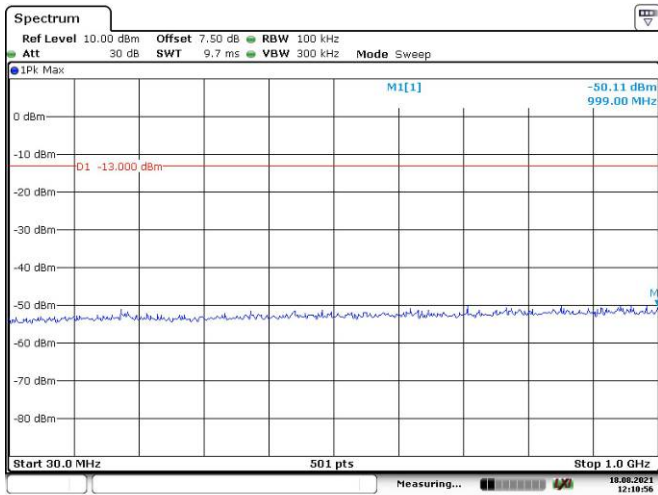


Date: 18.AUG.2021 12:10:02

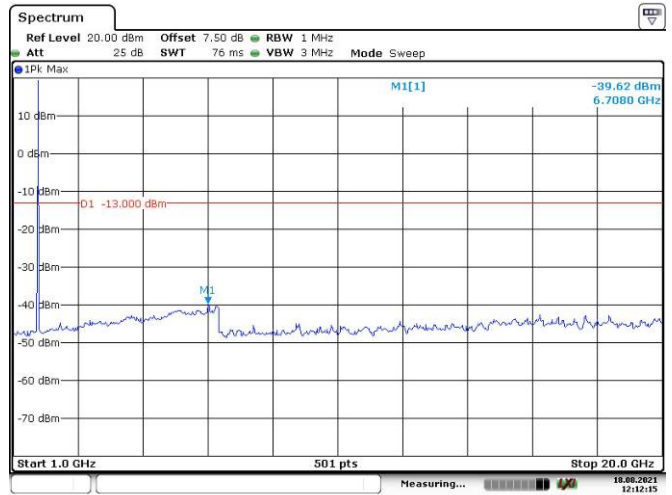
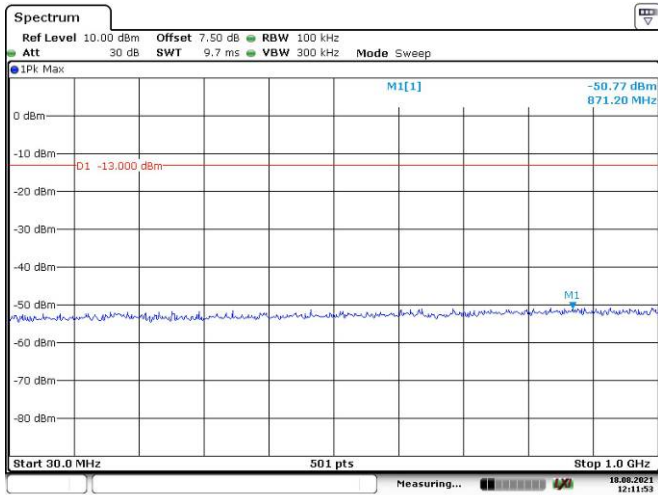


Date: 18.AUG.2021 12:10:24

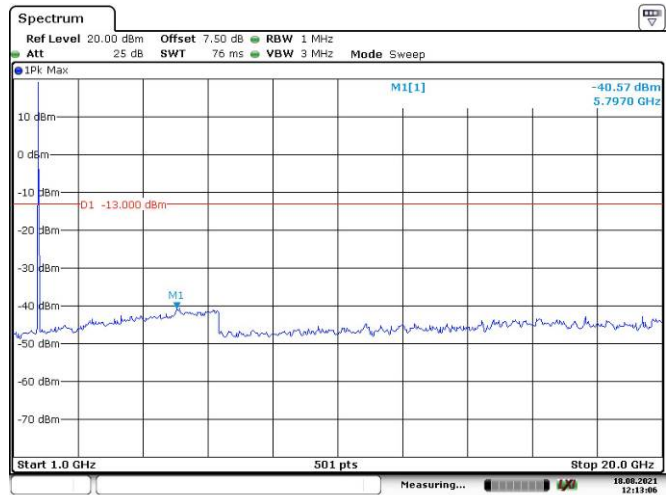
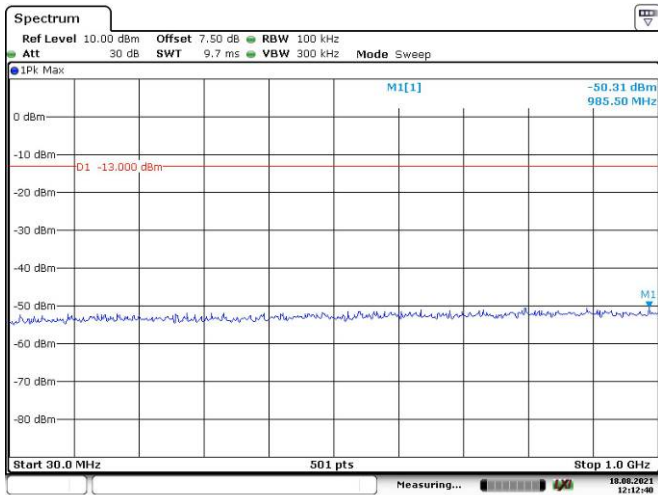
5M, QPSK, Low Channel



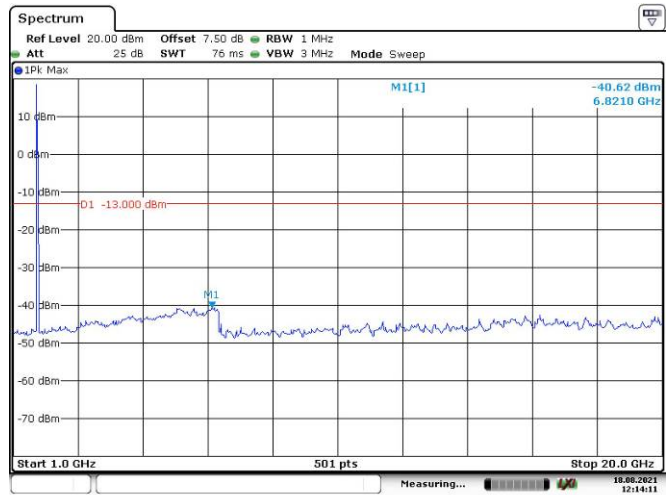
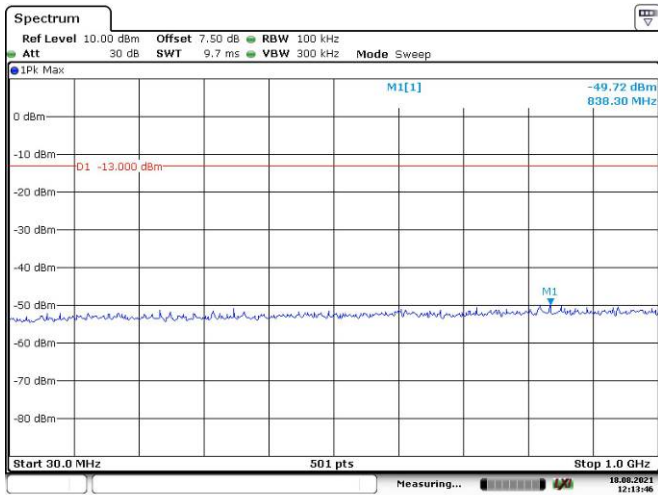
5M, QPSK, Middle Channel



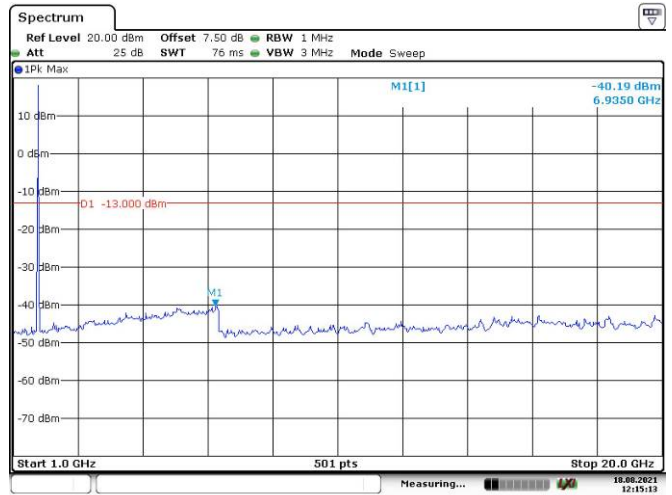
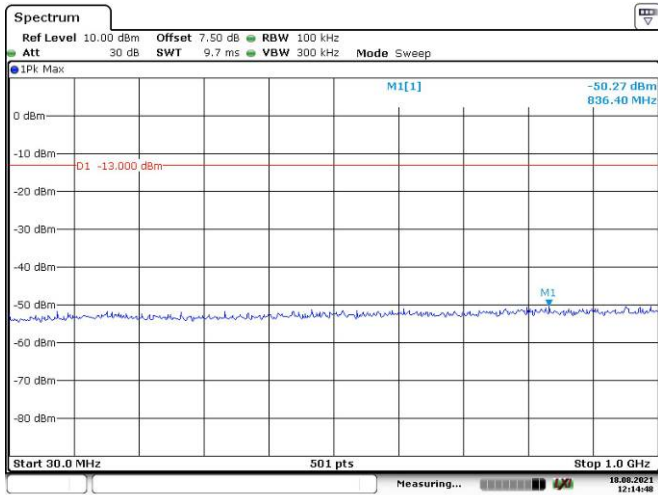
5M, QPSK, High Channel



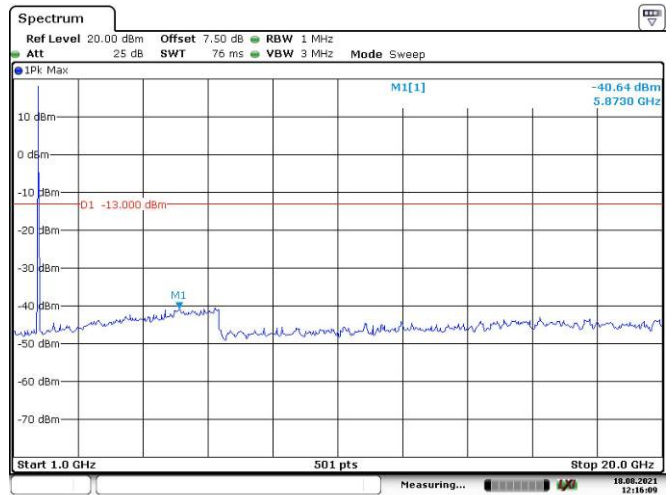
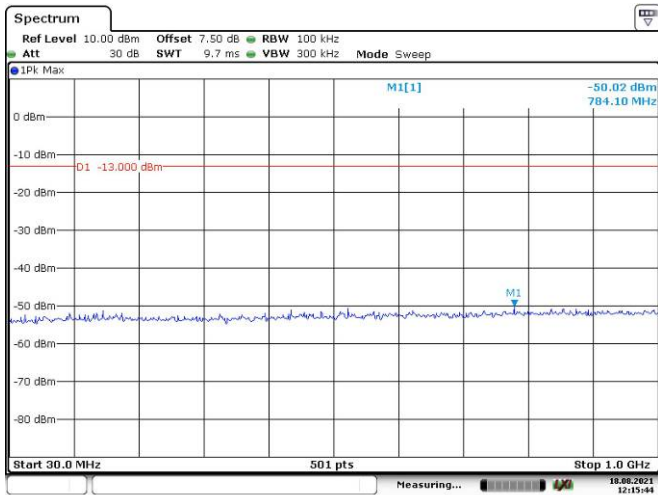
10M, QPSK, Low Channel



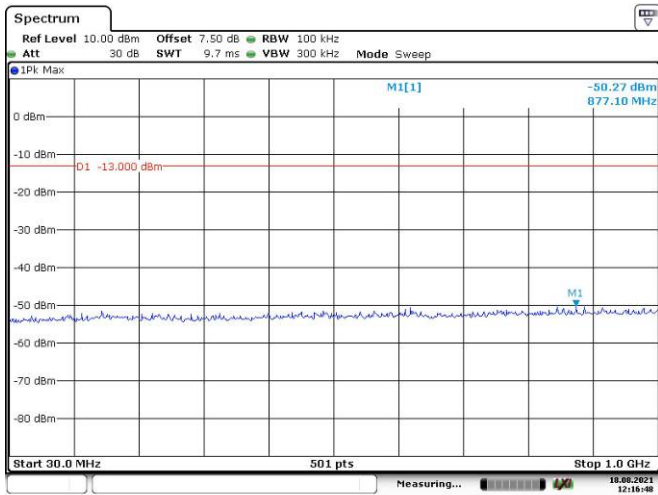
10M, QPSK, Middle Channel



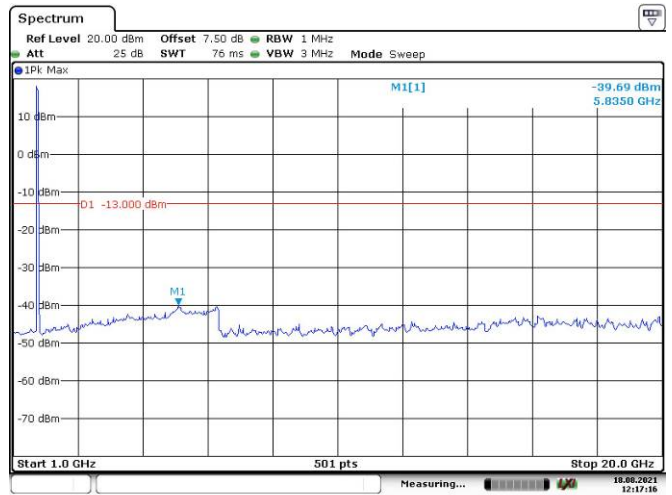
10M, QPSK, High Channel



15M, QPSK, Low Channel

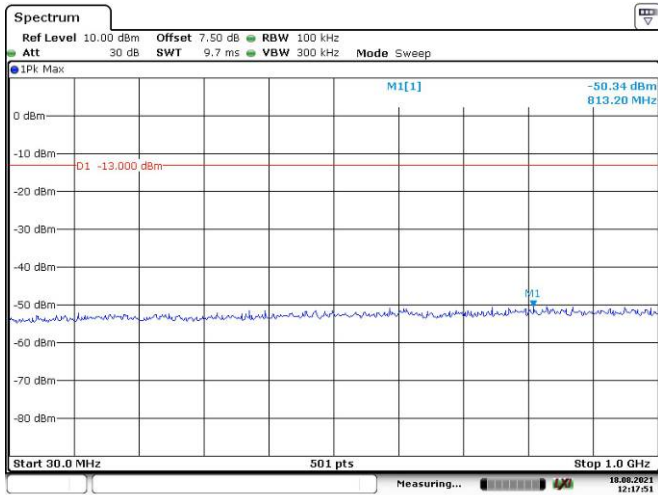


Date: 18.AUG.2021 12:16:48

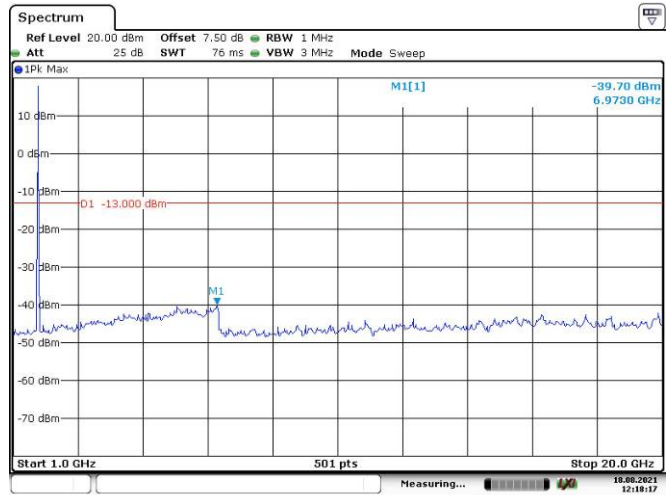


Date: 18.AUG.2021 12:17:16

15M, QPSK, Middle Channel

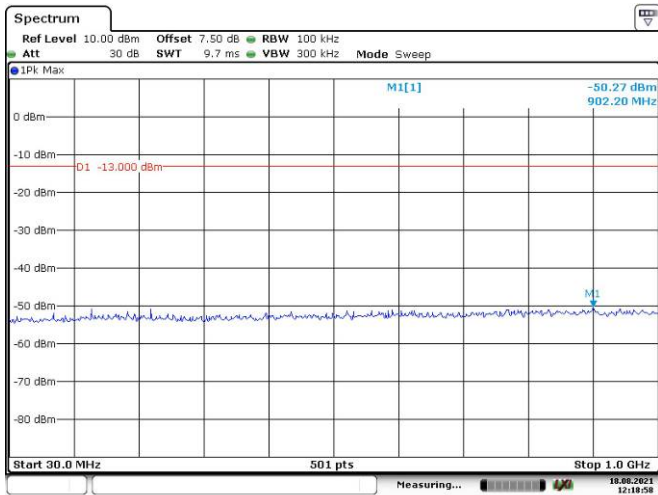


Date: 18.AUG.2021 12:17:52

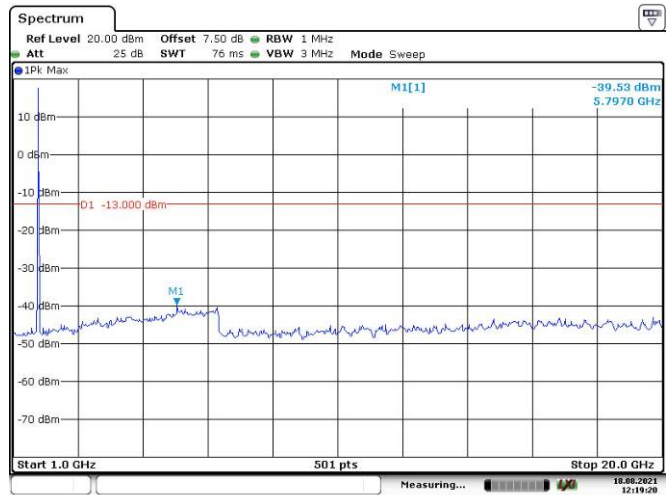


Date: 18.AUG.2021 12:18:17

15M, QPSK, High Channel

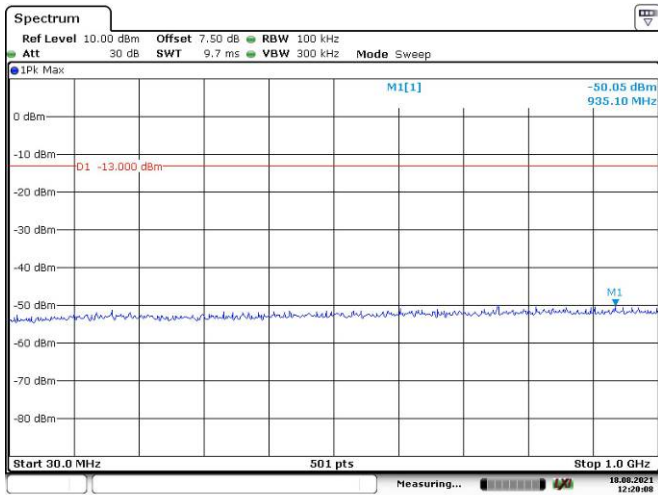


Date: 18.AUG.2021 12:18:58

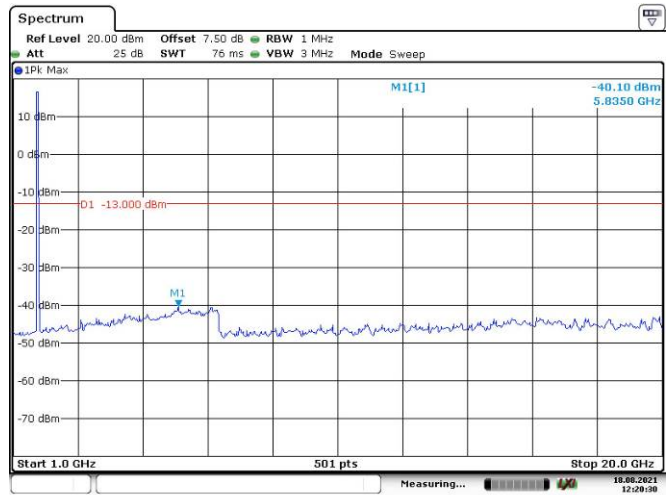


Date: 18.AUG.2021 12:19:29

20M, QPSK, Low Channel

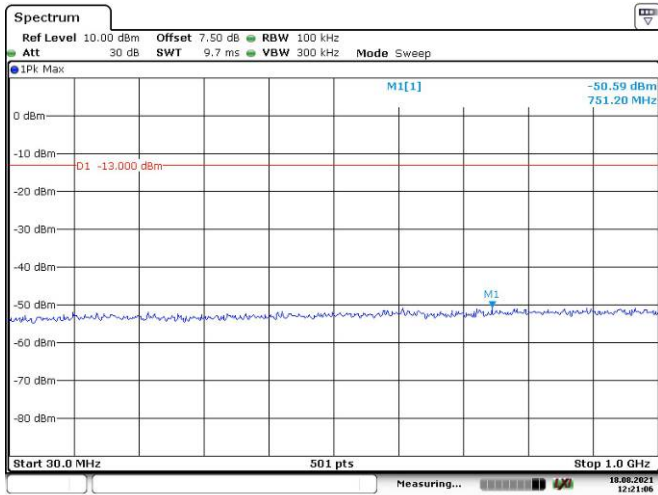


Date: 18.AUG.2021 12:20:09

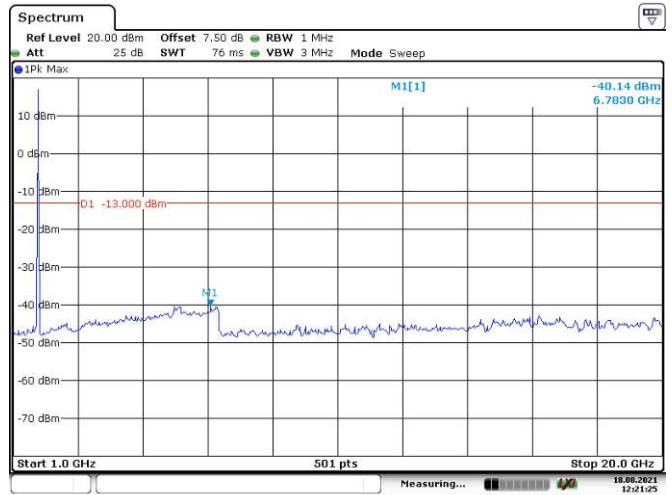


Date: 18.AUG.2021 12:20:31

20M, QPSK, Middle Channel

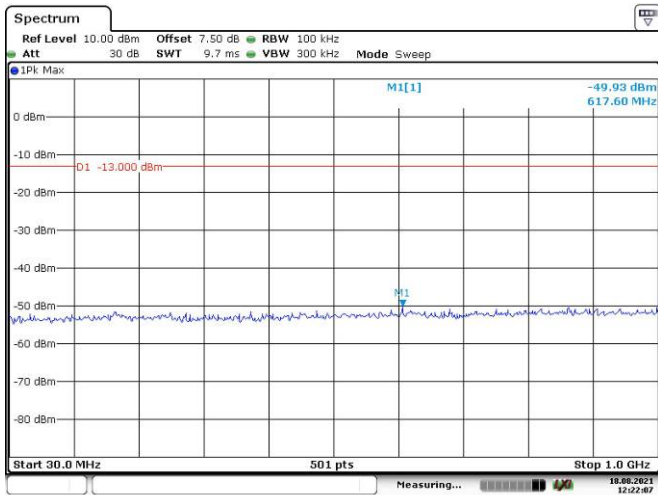


Date: 18.AUG.2021 12:21:06

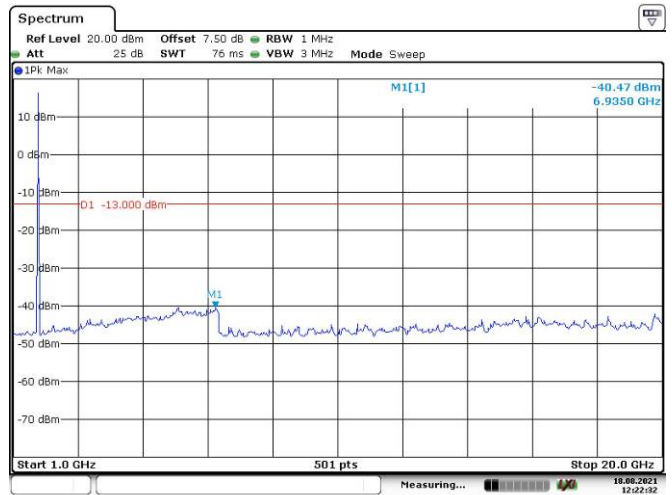


Date: 18.AUG.2021 12:21:25

20M, QPSK, High Channel



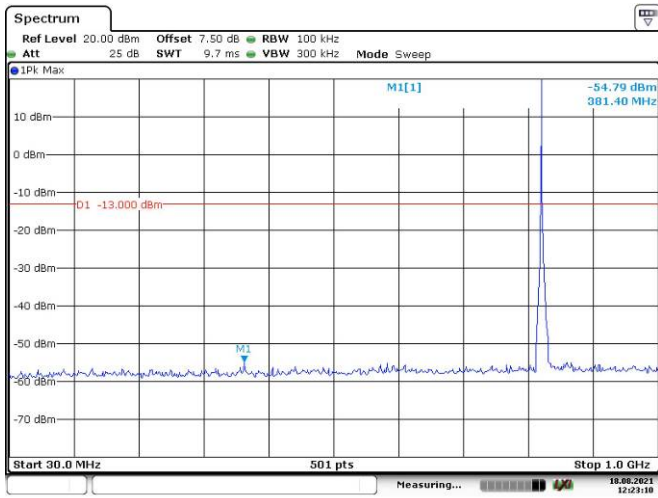
Date: 18.AUG.2021 12:22:07



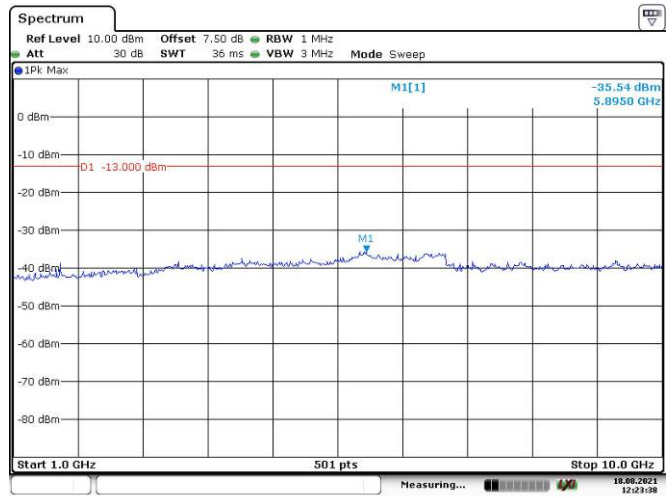
Date: 18.AUG.2021 12:22:32

LTE Band 5:

1.4M, QPSK, Low Channel

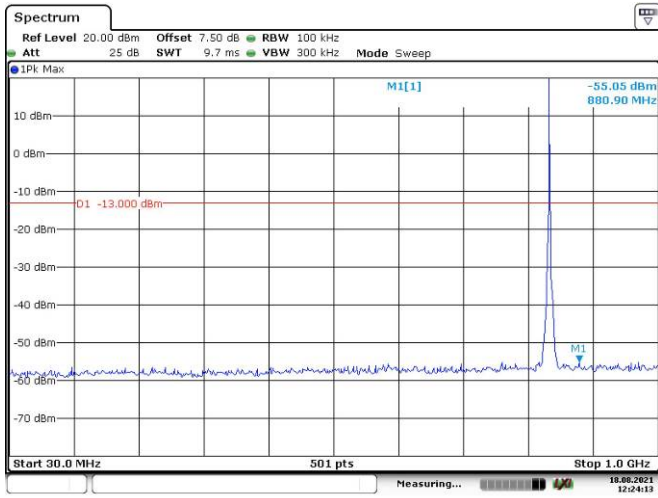


Date: 18.AUG.2021 12:23:10

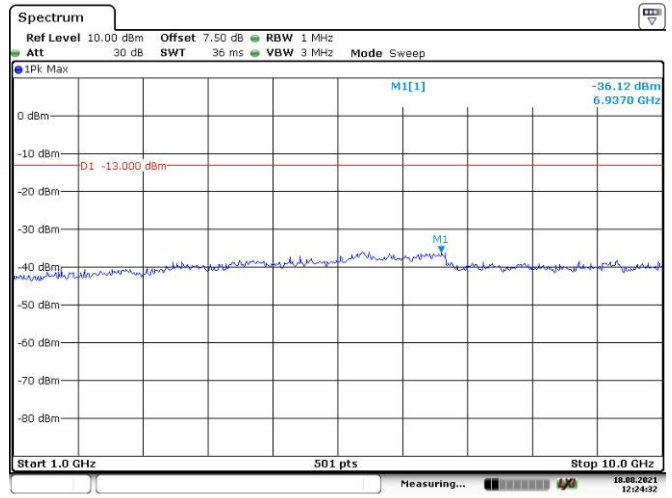


Date: 18.AUG.2021 12:23:08

1.4M, QPSK, Middle Channel

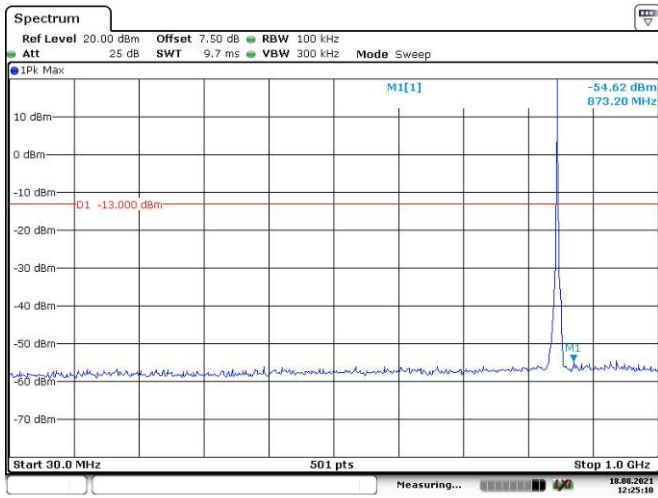


Date: 18.AUG.2021 12:24:13

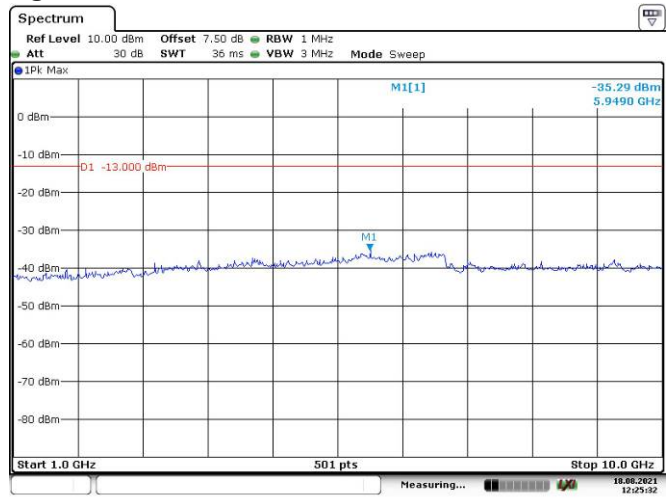


Date: 18.AUG.2021 12:24:32

1.4M, QPSK, High Channel

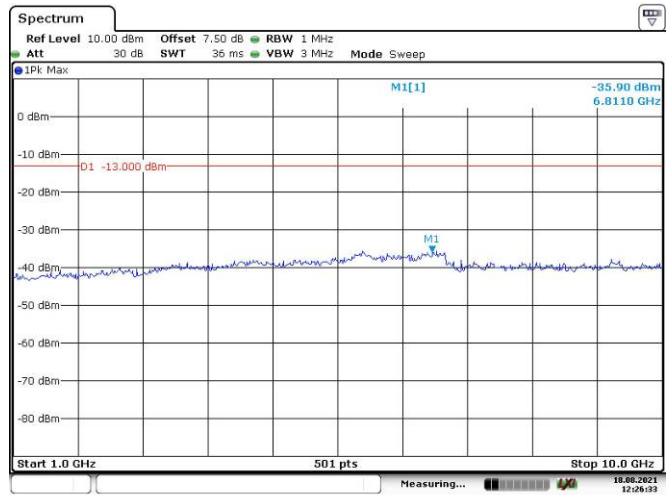
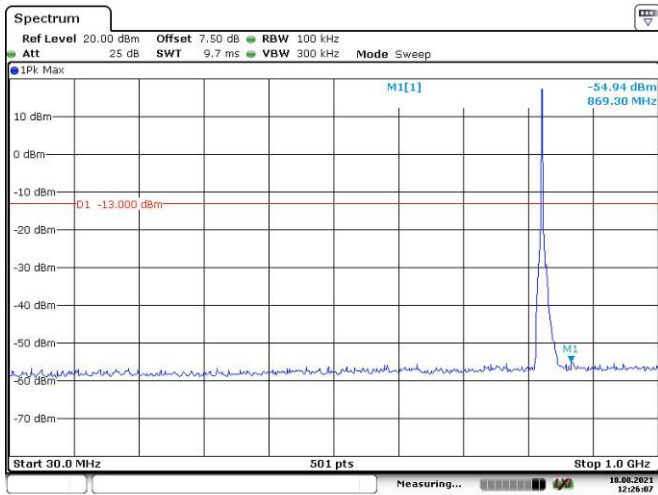


Date: 18.AUG.2021 12:25:11

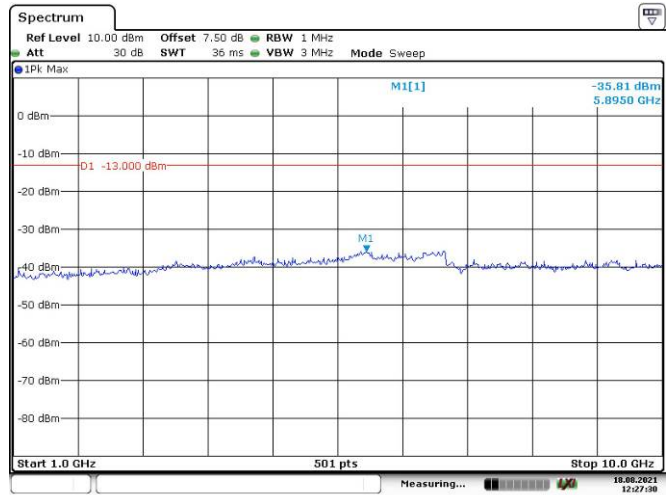
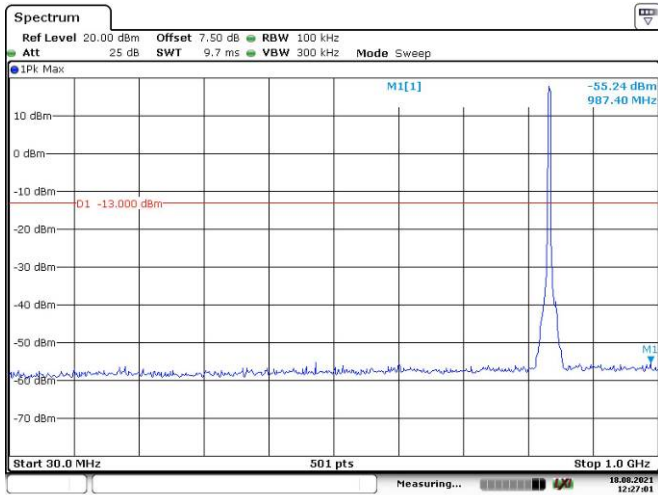


Date: 18.AUG.2021 12:25:03

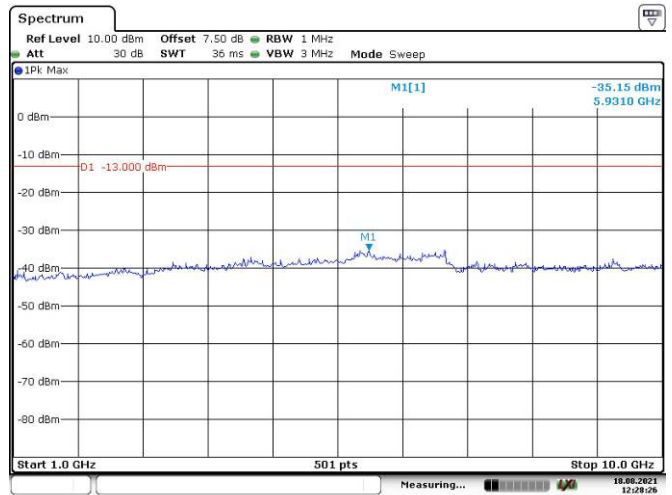
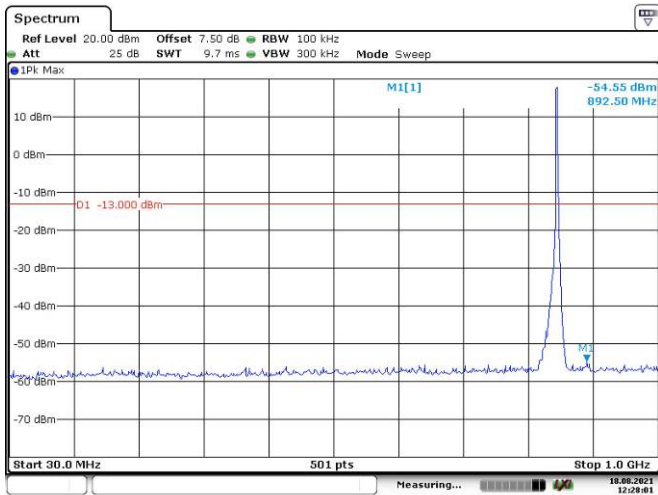
3M, QPSK, Low Channel



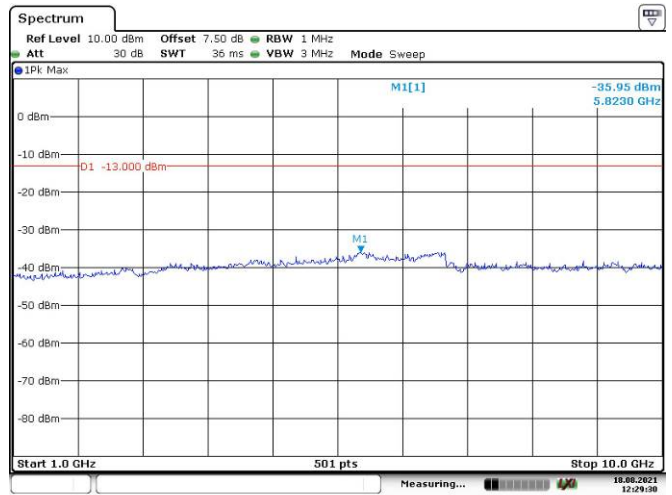
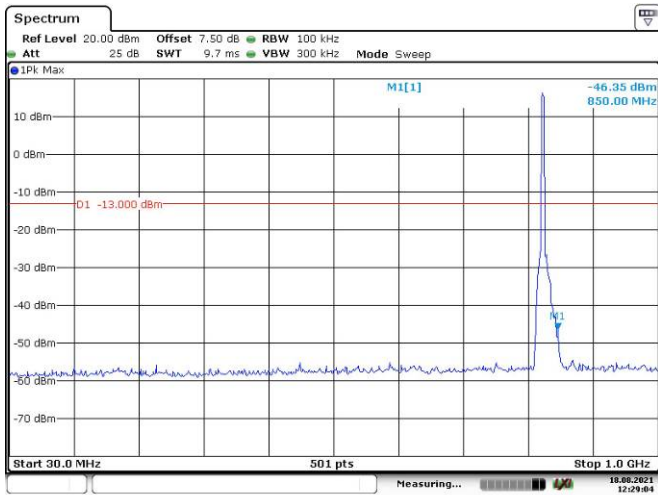
3M, QPSK, Middle Channel



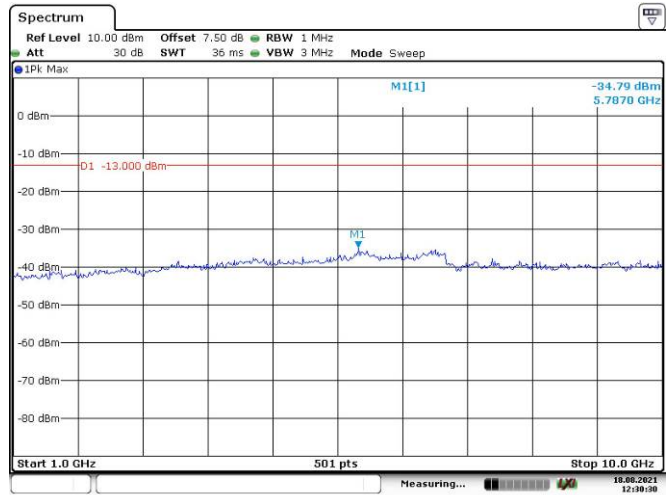
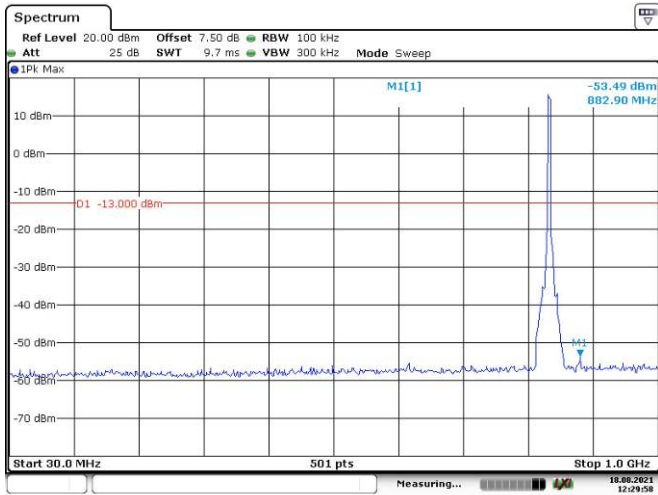
3M, QPSK, High Channel



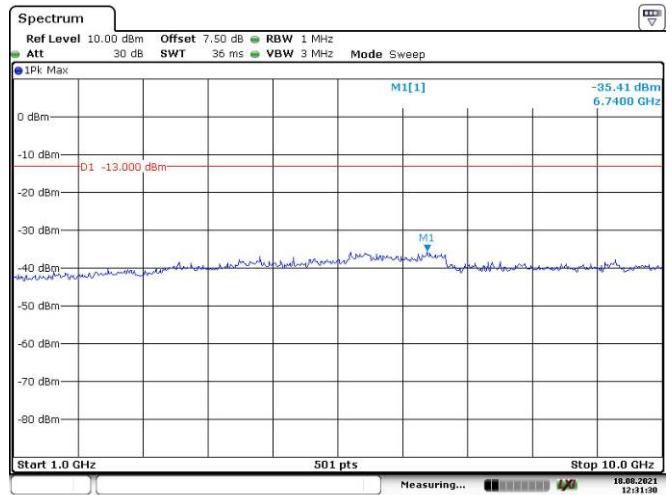
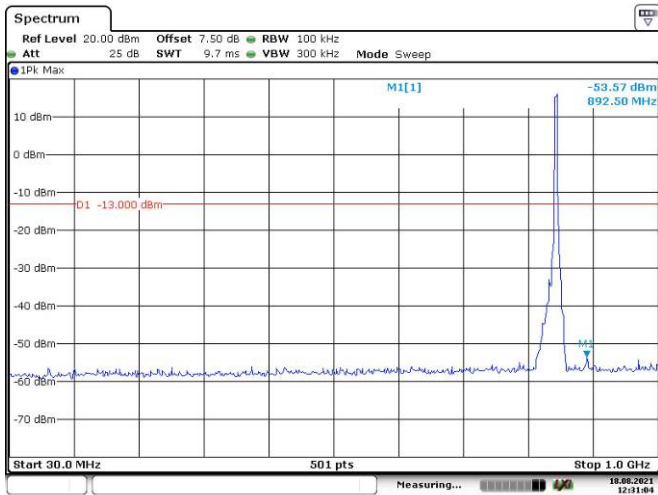
5M, QPSK, Low Channel



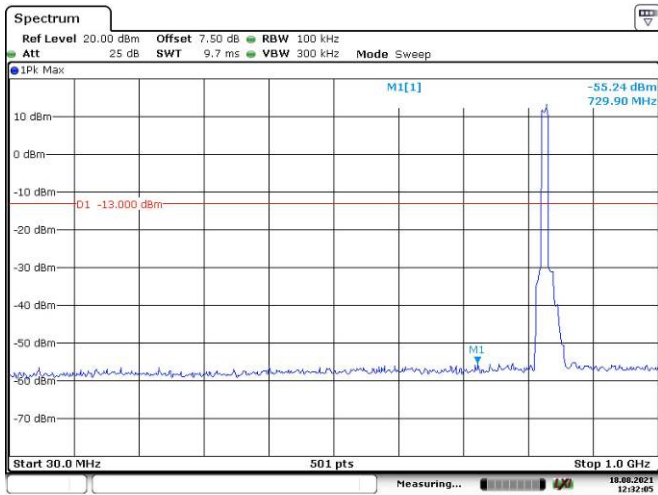
5M, QPSK, Middle Channel



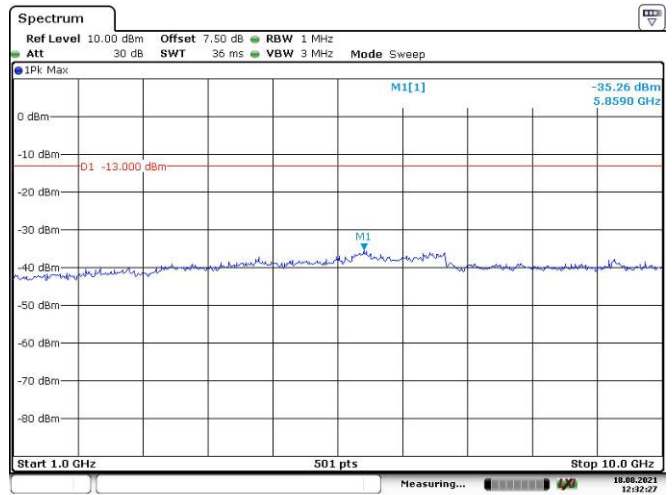
5M, QPSK, High Channel



10M, QPSK, Low Channel

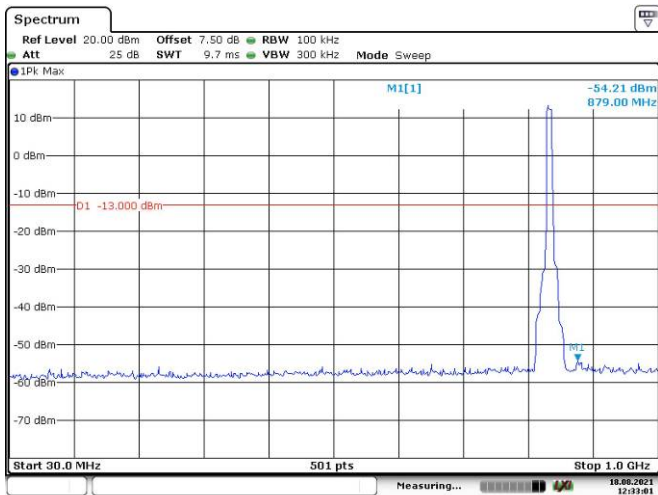


Date: 18.AUG.2021 12:32:06

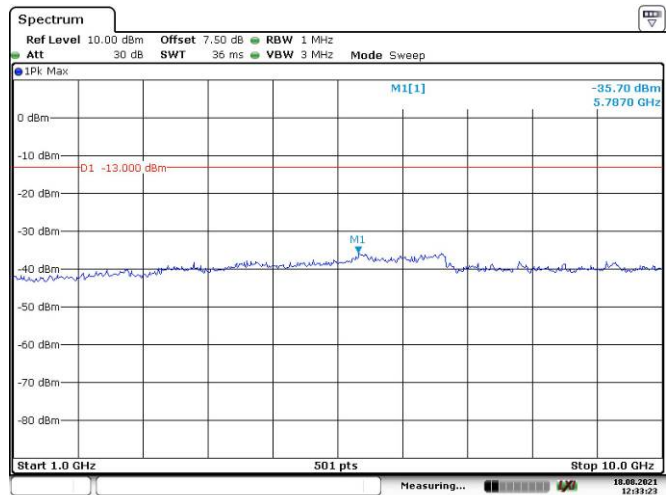


Date: 18.AUG.2021 12:32:28

10M, QPSK, Middle Channel

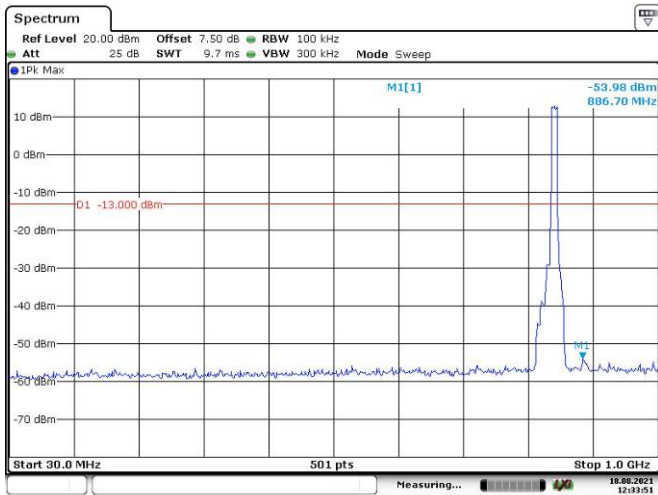


Date: 18.AUG.2021 12:33:02

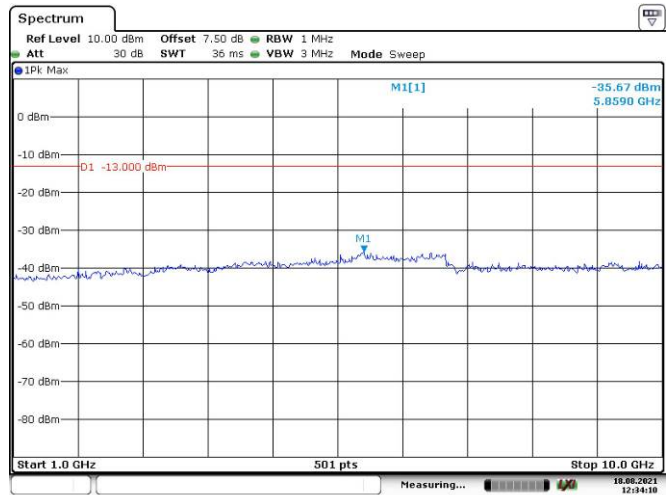


Date: 18.AUG.2021 12:33:24

10M, QPSK, High Channel



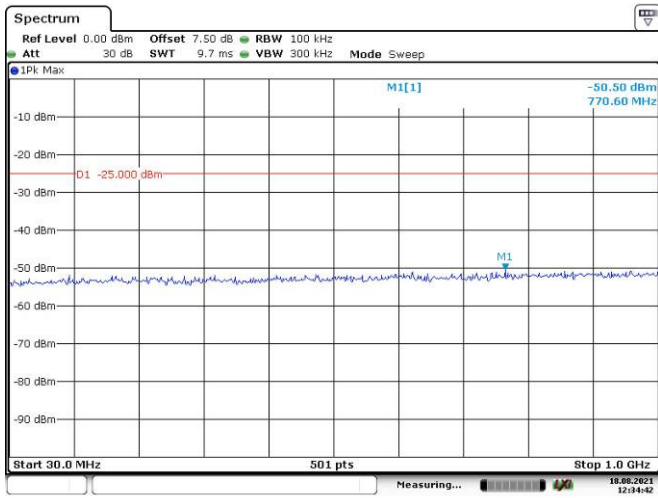
Date: 18.AUG.2021 12:33:52



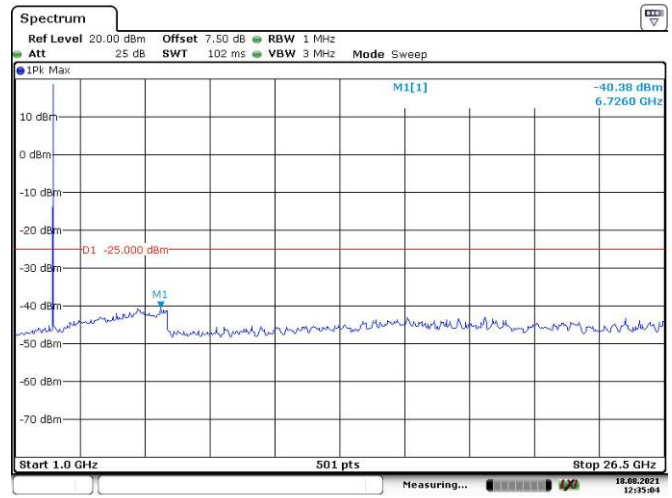
Date: 18.AUG.2021 12:34:11

LTE Band 7:

5M, QPSK, Low Channel

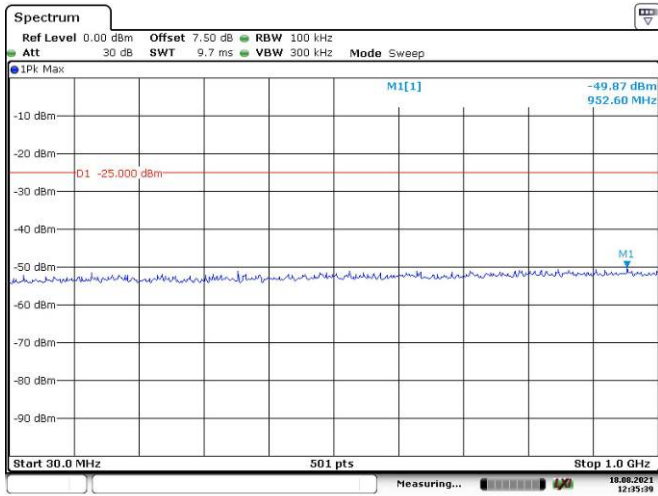


Date: 18.AUG.2021 12:34:42

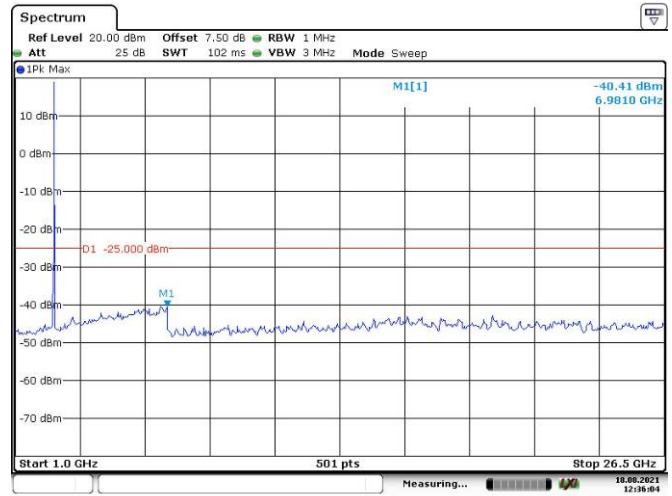


Date: 18.AUG.2021 12:35:04

5M, QPSK, Middle Channel

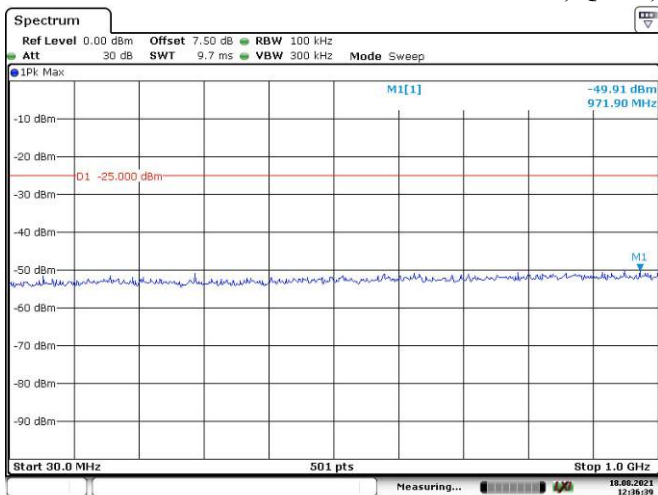


Date: 18.AUG.2021 12:35:39

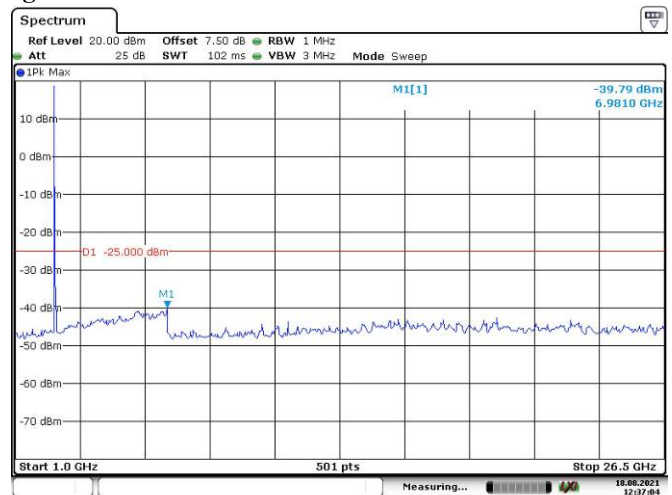


Date: 18.AUG.2021 12:36:04

5M, QPSK, High Channel

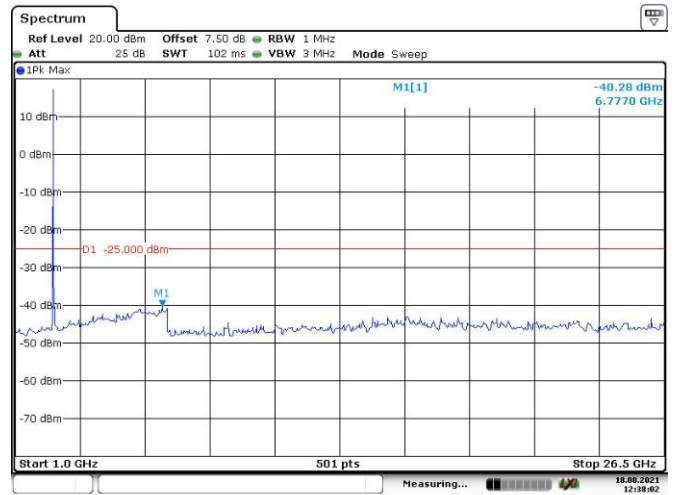
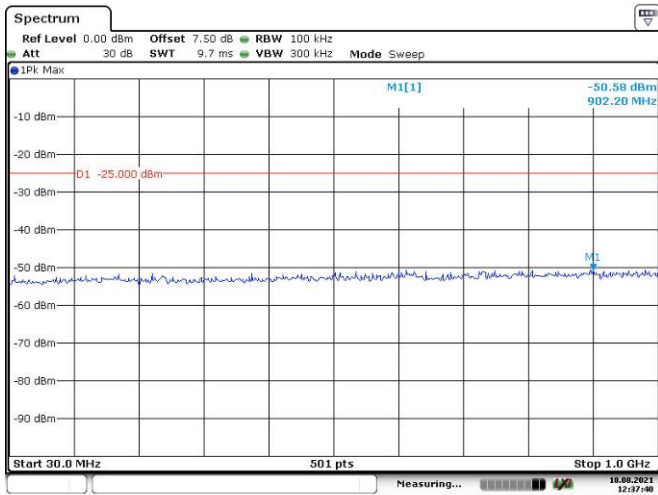


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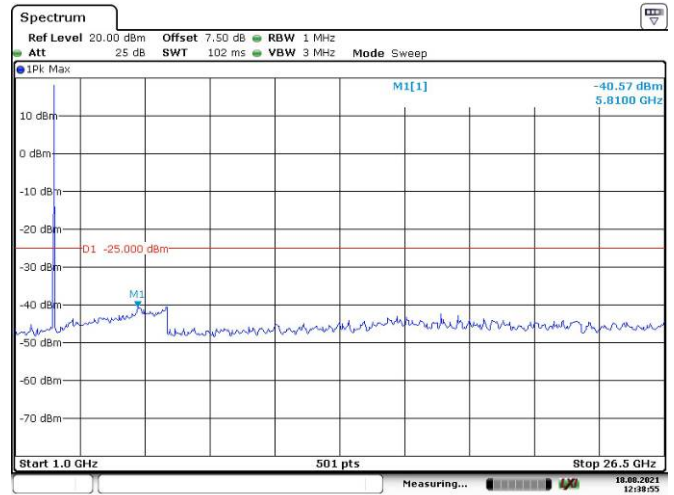
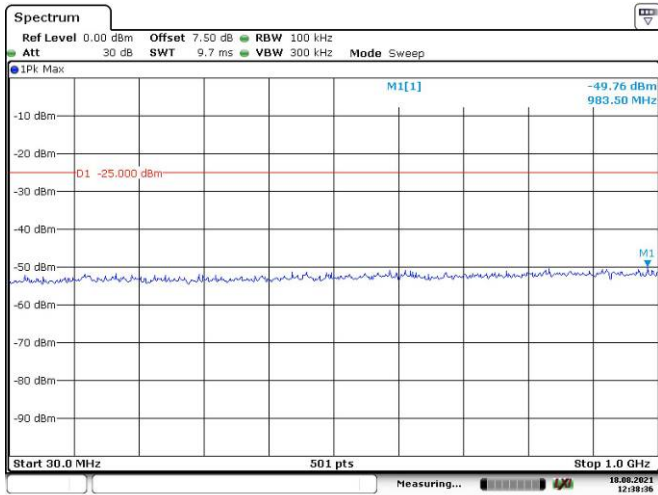


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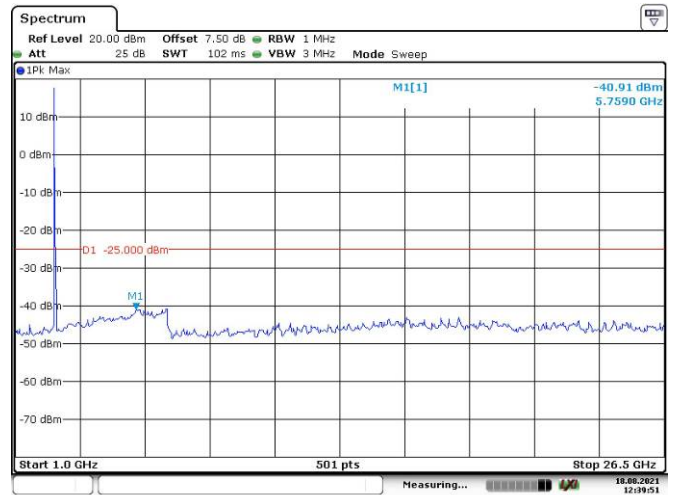
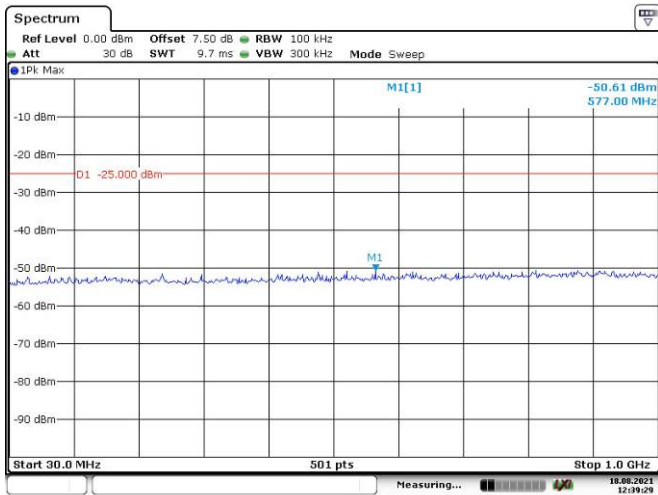
10M, QPSK, Low Channel



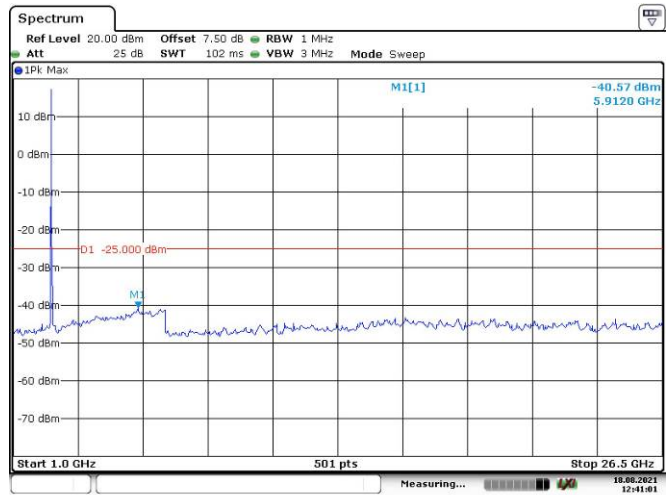
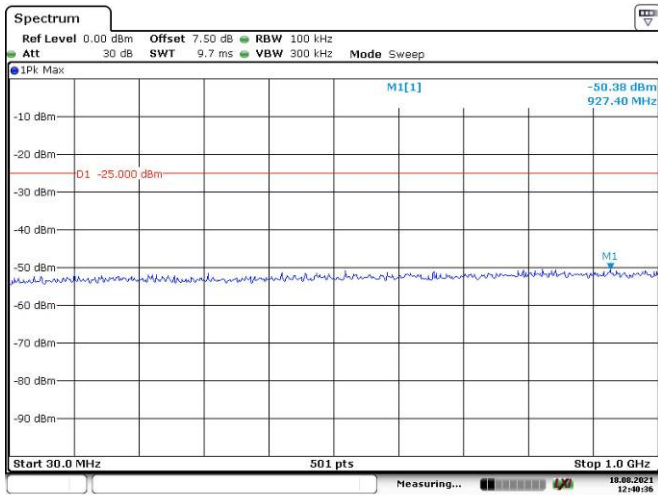
10M, QPSK, Middle Channel



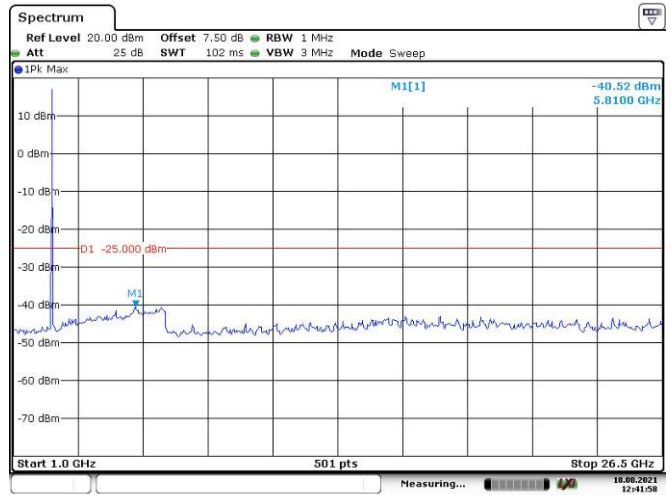
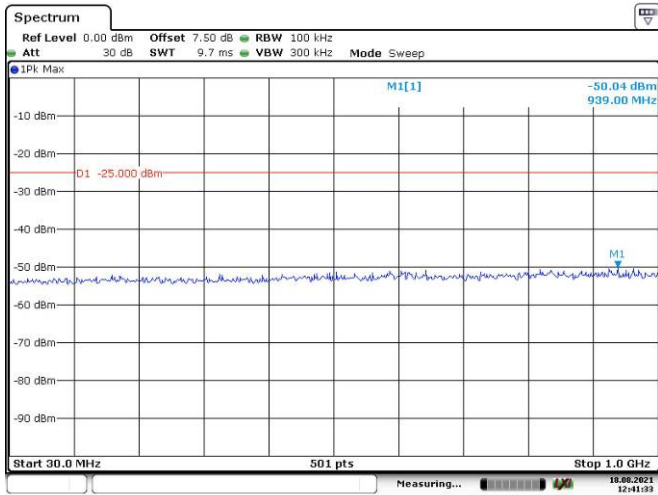
10M, QPSK, High Channel



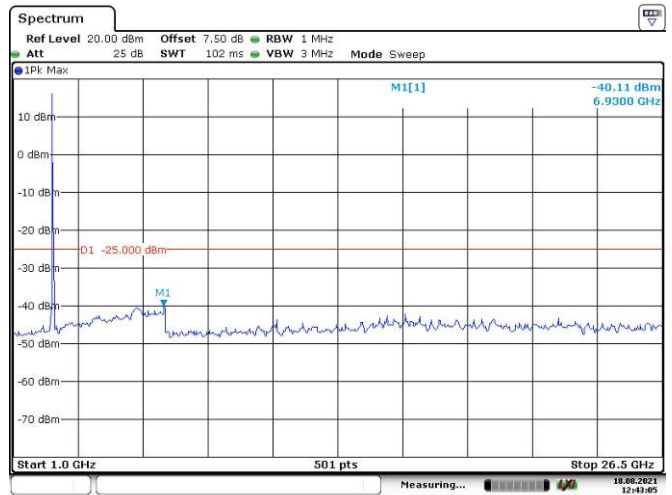
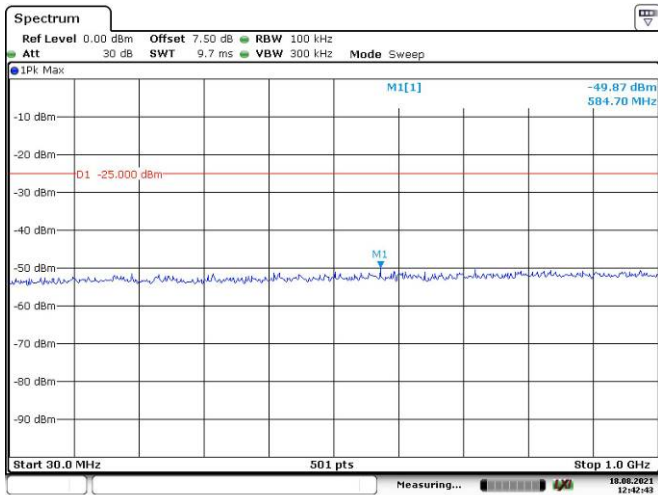
15M, QPSK, Low Channel



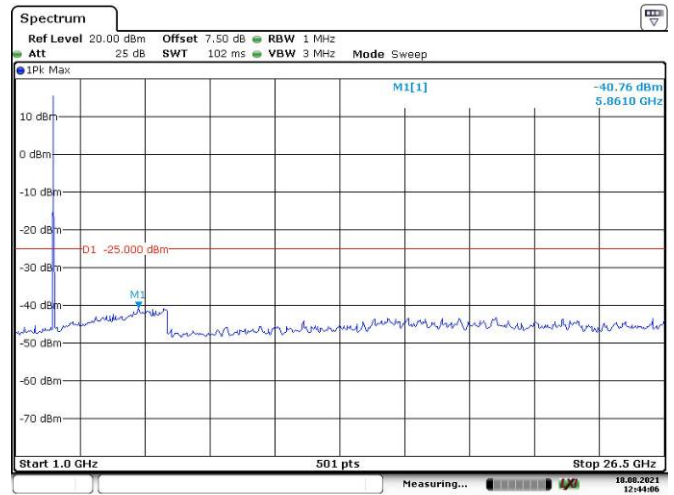
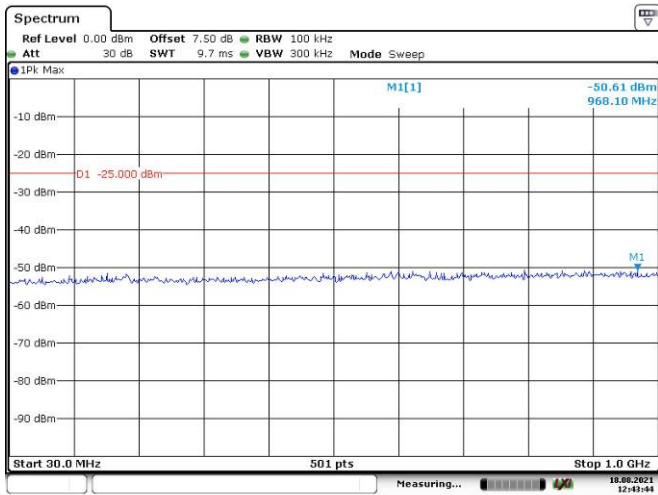
15M, QPSK, Middle Channel



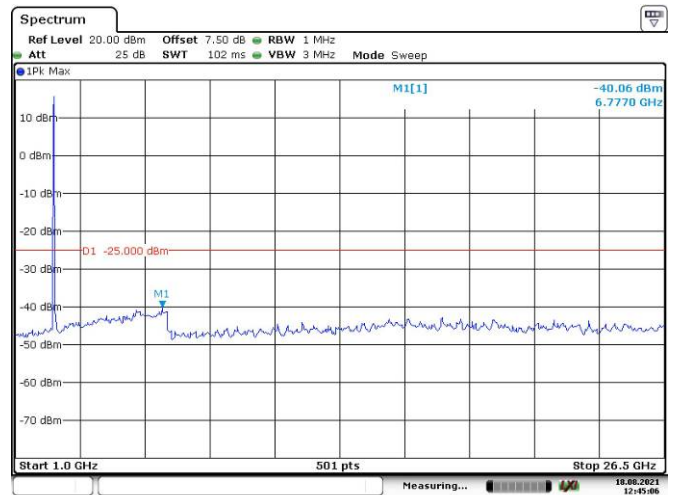
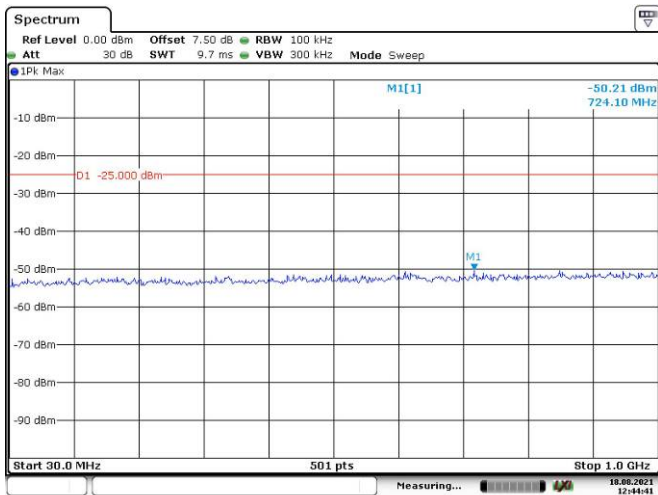
15M, QPSK, High Channel



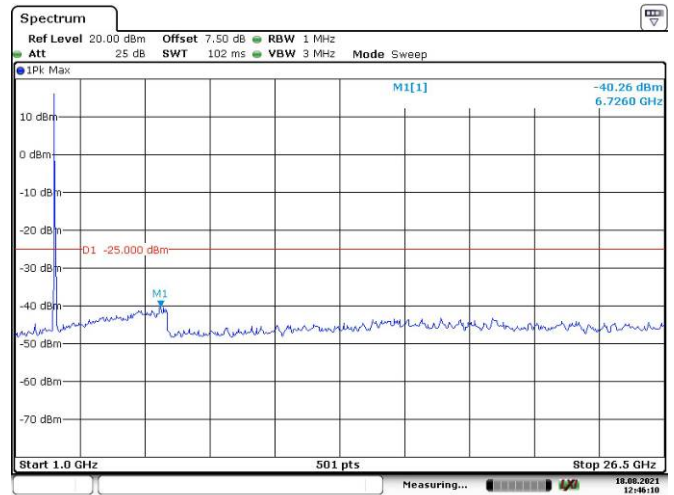
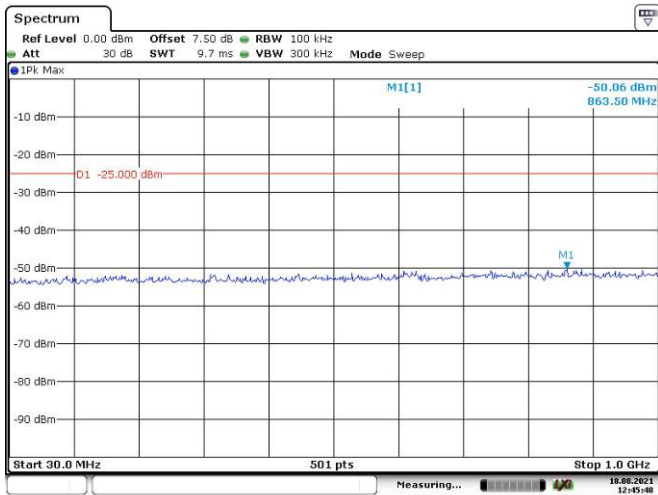
20M, QPSK, Low Channel



20M, QPSK, Middle Channel



20M, QPSK, High Channel



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

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	A060611-1	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	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-05-06	2022-05-05
Sonoma	Amplifier	310N	372193	N/A	N/A
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	9912-5985	2020-10-13	2023-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Agilent	Spectrum Analyzer	E4440A	MY44303352	2021-04-25	2022-04-24
HUBER+SUHNER	Coaxial Cable	SUCOFLEX 126EA	MY369/26/26E A	2020-09-25	2021-09-25
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2020-09-05	2021-09-05
ETS-Lindgren	Horn Antenna	3115	000 527 35	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
Quinstar	Amplifier	QLW-18405536- JO	15964001001	2021-06-27	2022-06-27
Sinoscite	Band-stop filter	BSF1710- 1785MN-0383- 003	0383003	2021-06-16	2022-06-16
Sinoscite	Band-stop filter	BSF1850- 1910MS-0935V2	0935V2	2021-06-16	2022-06-16
Sinoscite	Band-stop filter	BSF824-862MS- 1438-001	1438001	2021-06-16	2022-06-16
Sinoscite	Band-stop filter	BSF2500- 2690MS-1438-002	145841	2021-06-16	2022-06-16

* **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:	27°C	28.3°C
Relative Humidity:	59 %	57%
ATM Pressure:	100.3kPa	99.5kPa
Tester:	Joker Chen	Alex Hu
Test Date:	2021-08-18	2021-08-15

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	67.09	-51.43	8.68	0.80	-43.55	-13.00	30.55
1648.40	V	69.70	-48.90	8.68	0.80	-41.02	-13.00	28.02
2472.60	H	62.15	-52.69	9.38	1.00	-44.31	-13.00	31.31
2472.60	V	65.34	-49.45	9.38	1.00	-41.07	-13.00	28.07
3296.80	H	57.50	-53.65	10.32	1.15	-44.48	-13.00	31.48
3296.80	V	61.22	-49.69	10.32	1.15	-40.52	-13.00	27.52
776.10	H	46.75	-56.12	0.00	0.55	-56.67	-13.00	43.67
776.10	V	46.63	-52.72	0.00	0.55	-53.27	-13.00	40.27
GSM 850 Frequency:836.6MHz								
1673.20	H	65.81	-52.68	8.71	0.85	-44.82	-13.00	31.82
1673.20	V	66.29	-52.30	8.71	0.85	-44.44	-13.00	31.44
2509.80	H	61.89	-52.77	9.42	1.01	-44.36	-13.00	31.36
2509.80	V	61.24	-53.43	9.42	1.01	-45.02	-13.00	32.02
3346.40	H	58.12	-53.47	10.34	1.16	-44.29	-13.00	31.29
3346.40	V	55.83	-55.63	10.34	1.16	-46.45	-13.00	33.45
778.90	H	42.55	-60.26	0.00	0.54	-60.80	-13.00	47.80
545.90	V	46.12	-57.04	0.00	0.47	-57.51	-13.00	44.51
GSM 850 Frequency:848.8MHz								
1697.60	H	64.23	-54.23	8.74	0.90	-46.39	-13.00	33.39
1697.60	V	66.97	-51.62	8.74	0.90	-43.78	-13.00	30.78
2546.40	H	61.33	-53.05	9.47	1.01	-44.59	-13.00	31.59
2546.40	V	61.14	-53.19	9.47	1.01	-44.73	-13.00	31.73
3395.20	H	58.04	-54.04	10.36	1.19	-44.87	-13.00	31.87
3395.20	V	57.99	-54.06	10.36	1.19	-44.89	-13.00	31.89
767.70	H	42.90	-60.17	0.00	0.54	-60.71	-13.00	47.71
545.90	V	47.80	-55.36	0.00	0.47	-55.83	-13.00	42.83

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	46.85	-71.66	8.68	0.81	-63.79	-13.00	50.79
1652.80	V	48.65	-69.94	8.68	0.81	-62.07	-13.00	49.07
2479.20	H	47.58	-67.24	9.39	1.01	-58.86	-13.00	45.86
2479.20	V	46.39	-68.39	9.39	1.01	-60.01	-13.00	47.01
3305.60	H	47.13	-64.06	10.32	1.15	-54.89	-13.00	41.89
3305.60	V	48.43	-62.53	10.32	1.15	-53.36	-13.00	40.36
32.10	H	38.50	-35.38	-25.33	0.10	-60.81	-13.00	47.81
30.70	V	43.90	-36.72	-25.98	0.10	-62.80	-13.00	49.80
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	47.25	-71.24	8.71	0.85	-63.38	-13.00	50.38
1673.20	V	47.10	-71.49	8.71	0.85	-63.63	-13.00	50.63
2509.80	H	47.31	-67.35	9.42	1.01	-58.94	-13.00	45.94
2509.80	V	47.27	-67.40	9.42	1.01	-58.99	-13.00	45.99
3346.40	H	48.18	-63.41	10.34	1.16	-54.23	-13.00	41.23
3346.40	V	47.45	-64.01	10.34	1.16	-54.83	-13.00	41.83
30.70	H	38.98	-33.22	-25.98	0.10	-59.30	-13.00	46.30
30.70	V	43.49	-37.13	-25.98	0.10	-63.21	-13.00	50.21
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	48.52	-69.95	8.73	0.89	-62.11	-13.00	49.11
1693.20	V	48.25	-70.34	8.73	0.89	-62.50	-13.00	49.50
2539.80	H	47.06	-67.37	9.46	1.01	-58.92	-13.00	45.92
2539.80	V	47.40	-66.99	9.46	1.01	-58.54	-13.00	45.54
3386.40	H	47.28	-64.71	10.35	1.18	-55.54	-13.00	42.54
3386.40	V	47.24	-64.70	10.35	1.18	-55.53	-13.00	42.53
30.70	H	39.47	-32.73	-25.98	0.10	-58.81	-13.00	45.81
54.60	V	44.85	-58.58	-12.78	0.13	-71.49	-13.00	58.49

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	54.48	-57.60	10.60	1.25	-48.25	-13.00	35.25
3700.40	V	58.29	-53.77	10.60	1.25	-44.42	-13.00	31.42
5550.60	H	57.33	-51.83	11.44	1.49	-41.88	-13.00	28.88
5550.60	V	59.26	-49.74	11.44	1.49	-39.79	-13.00	26.79
41.90	H	44.49	-42.91	-23.89	0.12	-66.92	-13.00	53.92
30.70	V	44.07	-36.55	-25.98	0.10	-62.63	-13.00	49.63
GSM 1900 Frequency:1880MHz								
3760.00	H	53.47	-57.69	10.66	1.24	-48.27	-13.00	35.27
3760.00	V	54.38	-56.66	10.66	1.24	-47.24	-13.00	34.24
5640.00	H	59.18	-50.16	11.33	1.54	-40.37	-13.00	27.37
5640.00	V	53.93	-55.29	11.33	1.54	-45.50	-13.00	32.50
145.80	H	38.87	-73.23	0.00	0.22	-73.45	-13.00	60.45
39.10	V	47.79	-41.15	-25.97	0.11	-67.23	-13.00	54.23
GSM 1900 Frequency:1909.8MHz								
3819.60	H	52.47	-58.10	10.72	1.29	-48.67	-13.00	35.67
3819.60	V	52.38	-58.05	10.72	1.29	-48.62	-13.00	35.62
5729.40	H	64.56	-44.87	11.22	1.59	-35.24	-13.00	22.24
5729.40	V	55.94	-53.36	11.22	1.59	-43.73	-13.00	30.73
172.50	H	39.89	-72.27	0.00	0.24	-72.51	-13.00	59.51
145.80	V	53.64	-54.45	0.00	0.22	-54.67	-13.00	41.67

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	47.89	-64.13	10.60	1.25	-54.78	-13.00	41.78
3704.80	V	47.30	-64.69	10.60	1.25	-55.34	-13.00	42.34
5557.20	H	47.46	-61.72	11.43	1.49	-51.78	-13.00	38.78
5557.20	V	47.47	-61.55	11.43	1.49	-51.61	-13.00	38.61
30.70	H	38.98	-33.22	-25.98	0.10	-59.30	-13.00	46.30
30.70	V	43.86	-36.76	-25.98	0.10	-62.84	-13.00	49.84
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	47.34	-63.82	10.66	1.24	-54.40	-13.00	41.40
3760.00	V	47.89	-63.15	10.66	1.24	-53.73	-13.00	40.73
5640.00	H	47.70	-61.64	11.33	1.54	-51.85	-13.00	38.85
5640.00	V	48.04	-61.18	11.33	1.54	-51.39	-13.00	38.39
32.10	H	37.97	-35.91	-25.33	0.10	-61.34	-13.00	48.34
30.70	V	44.87	-35.75	-25.98	0.10	-61.83	-13.00	48.83
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	47.08	-63.49	10.72	1.29	-54.06	-13.00	41.06
3815.20	V	48.40	-62.01	10.72	1.29	-52.58	-13.00	39.58
5722.80	H	48.41	-61.02	11.23	1.58	-51.37	-13.00	38.37
5722.80	V	47.22	-62.08	11.23	1.58	-52.43	-13.00	39.43
30.70	H	39.40	-32.80	-25.98	0.10	-58.88	-13.00	45.88
30.70	V	44.06	-36.56	-25.98	0.10	-62.64	-13.00	49.64

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 (dB μ 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	47.79	-64.28	10.60	1.25	-54.93	-13.00	41.93
3701.40	V	50.35	-61.70	10.60	1.25	-52.35	-13.00	39.35
5552.10	H	47.73	-61.44	11.44	1.49	-51.49	-13.00	38.49
5552.10	V	48.15	-60.85	11.44	1.49	-50.90	-13.00	37.90
30.70	H	37.71	-34.49	-25.98	0.10	-60.57	-13.00	47.57
30.70	V	44.44	-36.18	-25.98	0.10	-62.26	-13.00	49.26
QPSK, Frequency: 1880 MHz								
3760.00	H	47.63	-63.53	10.66	1.24	-54.11	-13.00	41.11
3760.00	V	50.02	-61.02	10.66	1.24	-51.60	-13.00	38.60
5640.00	H	47.87	-61.47	11.33	1.54	-51.68	-13.00	38.68
5640.00	V	48.23	-60.99	11.33	1.54	-51.20	-13.00	38.20
32.10	H	38.76	-35.12	-25.33	0.10	-60.55	-13.00	47.55
30.70	V	45.27	-35.35	-25.98	0.10	-61.43	-13.00	48.43
QPSK, Frequency: 1909.3 MHz								
3818.60	H	47.70	-62.87	10.72	1.29	-53.44	-13.00	40.44
3818.60	V	49.76	-60.66	10.72	1.29	-51.23	-13.00	38.23
5727.90	H	49.84	-59.59	11.23	1.59	-49.95	-13.00	36.95
5727.90	V	49.21	-60.09	11.23	1.59	-50.45	-13.00	37.45
30.70	H	38.85	-33.35	-25.98	0.10	-59.43	-13.00	46.43
30.70	V	44.93	-35.69	-25.98	0.10	-61.77	-13.00	48.77

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	48.05	-64.08	10.37	1.17	-54.88	-13.00	41.88
3421.40	V	47.64	-64.46	10.37	1.17	-55.26	-13.00	42.26
5132.10	H	47.52	-61.38	11.28	1.47	-51.57	-13.00	38.57
5132.10	V	47.60	-61.19	11.28	1.47	-51.38	-13.00	38.38
30.70	H	39.16	-33.04	-25.98	0.10	-59.12	-13.00	46.12
30.70	V	43.73	-36.89	-25.98	0.10	-62.97	-13.00	49.97
QPSK, Frequency: 1732.5 MHz								
3465.00	H	47.50	-64.62	10.39	1.15	-55.38	-13.00	42.38
3465.00	V	50.20	-61.88	10.39	1.15	-52.64	-13.00	39.64
5197.50	H	48.62	-60.71	11.32	1.44	-50.83	-13.00	37.83
5197.50	V	47.51	-61.67	11.32	1.44	-51.79	-13.00	38.79
30.70	H	38.89	-33.31	-25.98	0.10	-59.39	-13.00	46.39
30.70	V	44.83	-35.79	-25.98	0.10	-61.87	-13.00	48.87
QPSK, Frequency: 1754.3 MHz								
3508.60	H	48.85	-63.26	10.41	1.19	-54.04	-13.00	41.04
3508.60	V	51.34	-60.70	10.41	1.19	-51.48	-13.00	38.48
5262.90	H	46.79	-62.41	11.36	1.47	-52.52	-13.00	39.52
5262.90	V	48.26	-60.71	11.36	1.47	-50.82	-13.00	37.82
30.70	H	40.55	-31.65	-25.98	0.10	-57.73	-13.00	44.73
30.70	V	43.95	-36.67	-25.98	0.10	-62.75	-13.00	49.75

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	57.25	-61.27	8.68	0.80	-53.39	-13.00	40.39
1649.40	V	56.89	-61.71	8.68	0.80	-53.83	-13.00	40.83
2474.10	H	53.18	-61.66	9.38	1.00	-53.28	-13.00	40.28
2474.10	V	53.17	-61.62	9.38	1.00	-53.24	-13.00	40.24
3298.80	H	48.90	-62.24	10.32	1.15	-53.07	-13.00	40.07
3298.80	V	54.29	-56.61	10.32	1.15	-47.44	-13.00	34.44
782.43	H	42.07	-60.66	0.00	0.55	-61.21	-13.00	48.21
782.43	V	48.07	-51.12	0.00	0.55	-51.67	-13.00	38.67
QPSK, Frequency: 836.5 MHz								
1673.00	H	57.14	-61.35	8.71	0.85	-53.49	-13.00	40.49
1673.00	V	54.80	-63.79	8.71	0.85	-55.93	-13.00	42.93
2509.50	H	55.03	-59.63	9.42	1.01	-51.22	-13.00	38.22
2509.50	V	54.36	-60.31	9.42	1.01	-51.90	-13.00	38.90
3346.00	H	48.85	-62.74	10.34	1.16	-53.56	-13.00	40.56
3346.00	V	48.40	-63.05	10.34	1.16	-53.87	-13.00	40.87
791.50	H	40.39	-62.13	0.00	0.61	-62.74	-13.00	49.74
791.50	V	46.22	-52.74	0.00	0.61	-53.35	-13.00	40.35
QPSK, Frequency: 848.3 MHz								
1696.60	H	53.50	-64.96	8.74	0.89	-57.11	-13.00	44.11
1696.60	V	58.37	-60.22	8.74	0.89	-52.37	-13.00	39.37
2544.90	H	56.62	-57.77	9.47	1.01	-49.31	-13.00	36.31
2544.90	V	57.36	-56.98	9.47	1.01	-48.52	-13.00	35.52
3393.20	H	53.91	-58.15	10.36	1.19	-48.98	-13.00	35.98
3393.20	V	50.81	-61.22	10.36	1.19	-52.05	-13.00	39.05
802.80	H	39.35	-62.90	0.00	0.57	-63.47	-13.00	50.47
802.80	V	45.45	-53.23	0.00	0.57	-53.80	-13.00	40.80

LTE Band 7(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2502.5 MHz								
5005.00	H	48.31	-60.66	11.20	1.47	-50.93	-25.00	25.93
5005.00	V	48.40	-60.44	11.20	1.47	-50.71	-25.00	25.71
7507.50	H	48.69	-57.34	10.90	1.95	-48.39	-25.00	23.39
7507.50	V	48.26	-58.27	10.90	1.95	-49.32	-25.00	24.32
763.50	H	36.53	-66.63	0.00	0.53	-67.16	-25.00	42.16
47.50	V	42.02	-56.75	-17.35	0.12	-74.22	-25.00	49.22
QPSK, Frequency: 2535 MHz								
5070.00	H	48.28	-60.49	11.24	1.47	-50.72	-25.00	25.72
5070.00	V	47.47	-61.20	11.24	1.47	-51.43	-25.00	26.43
7605.00	H	49.08	-56.98	10.88	2.01	-48.11	-25.00	23.11
7605.00	V	48.71	-58.06	10.88	2.01	-49.19	-25.00	24.19
147.20	H	36.63	-75.42	0.00	0.23	-75.65	-25.00	50.65
47.50	V	43.97	-54.80	-17.35	0.12	-72.27	-25.00	47.27
QPSK, Frequency: 2567.5 MHz								
5135.00	H	50.06	-58.85	11.28	1.47	-49.04	-25.00	24.04
5135.00	V	48.54	-60.26	11.28	1.47	-50.45	-25.00	25.45
7702.50	H	49.19	-56.60	10.86	1.97	-47.71	-25.00	22.71
7702.50	V	49.77	-56.68	10.86	1.97	-47.79	-25.00	22.79
624.50	H	37.24	-67.52	0.00	0.48	-68.00	-25.00	43.00
47.50	V	44.07	-54.70	-17.35	0.12	-72.17	-25.00	47.17

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 - BAND EDGES

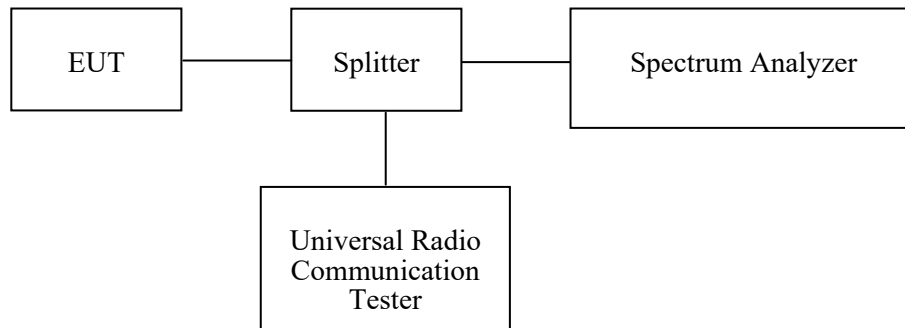
Applicable Standard

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

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	2021/7/22	2022/7/21
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005011	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	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

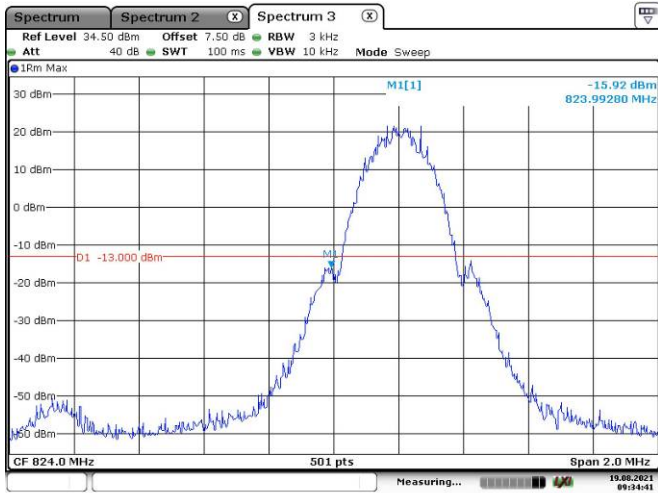
Environmental Conditions

Temperature:	27.2°C ~28.2°C
Relative Humidity:	51 %~56 %
ATM Pressure:	100.1kPa~100.3kPa
Tester:	Lay Lei
Test Date:	2021.08.18~2021.08.19

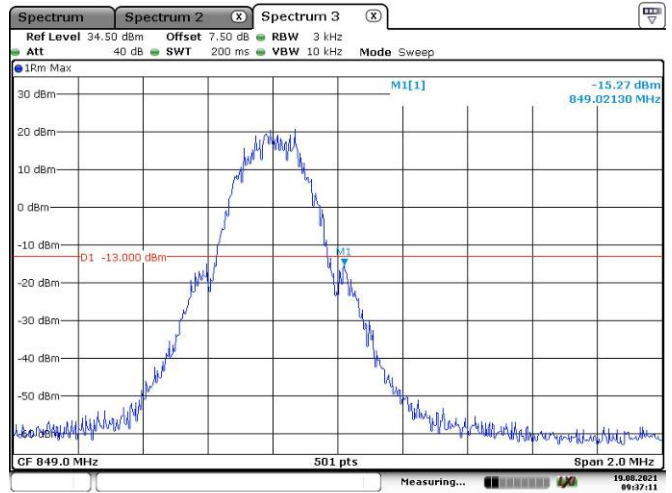
Test Mode: Transmitting

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

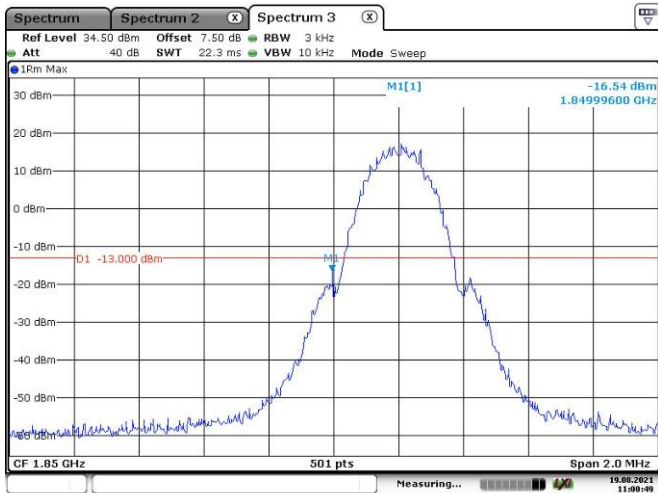
GSM 850, Left Band Edge



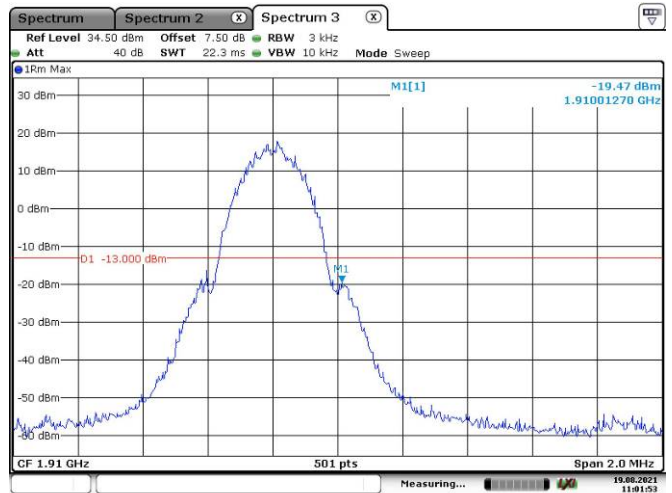
GSM 850, Right Band Edge



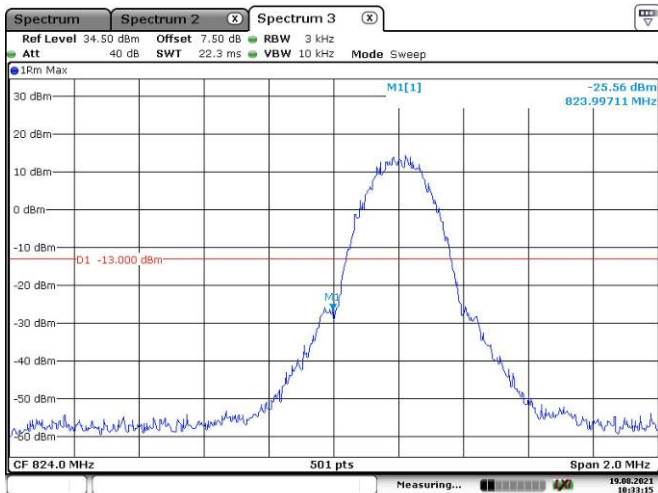
GSM 1900, Left Band Edge



GSM 1900, Right Band Edge



EGPRS 850, Left Band Edge



EGPRS 850, Right Band Edge

