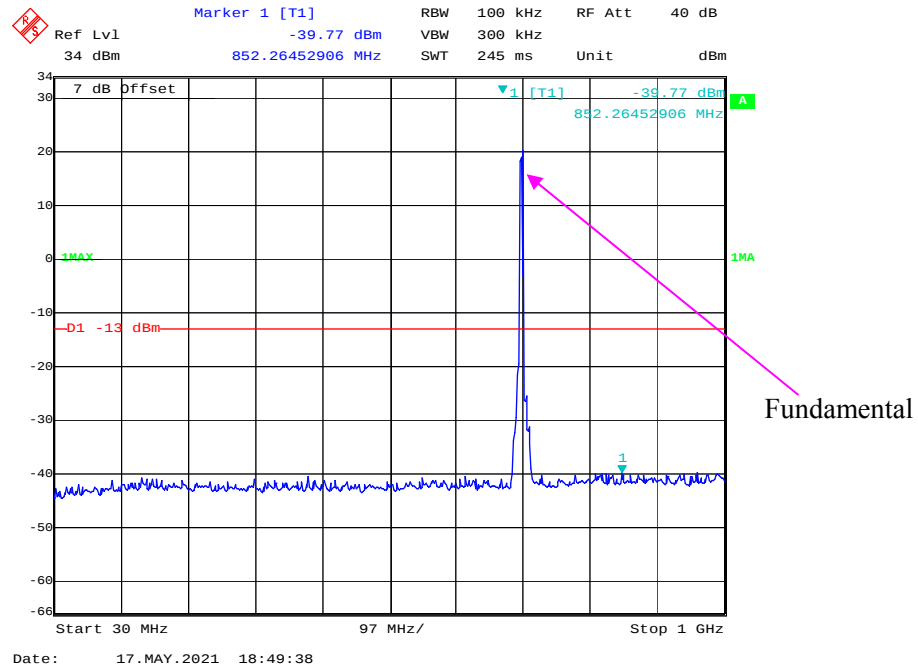
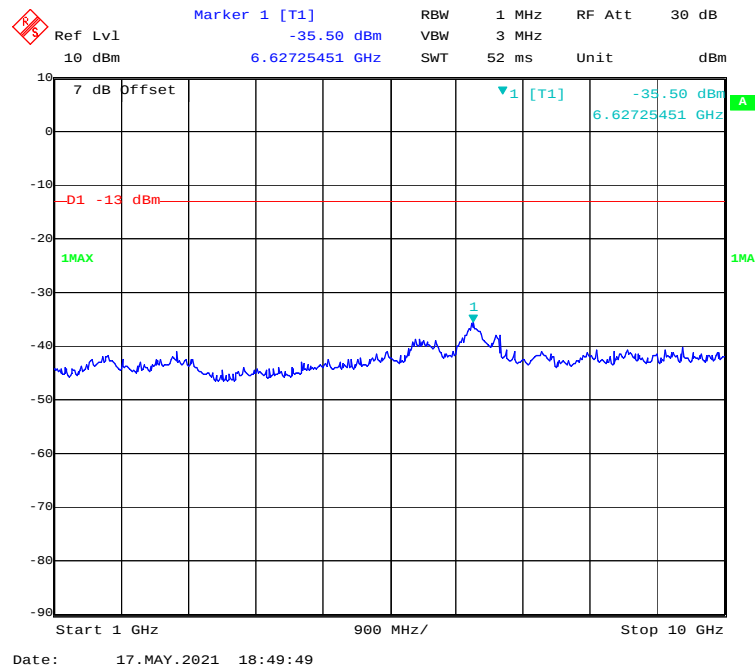
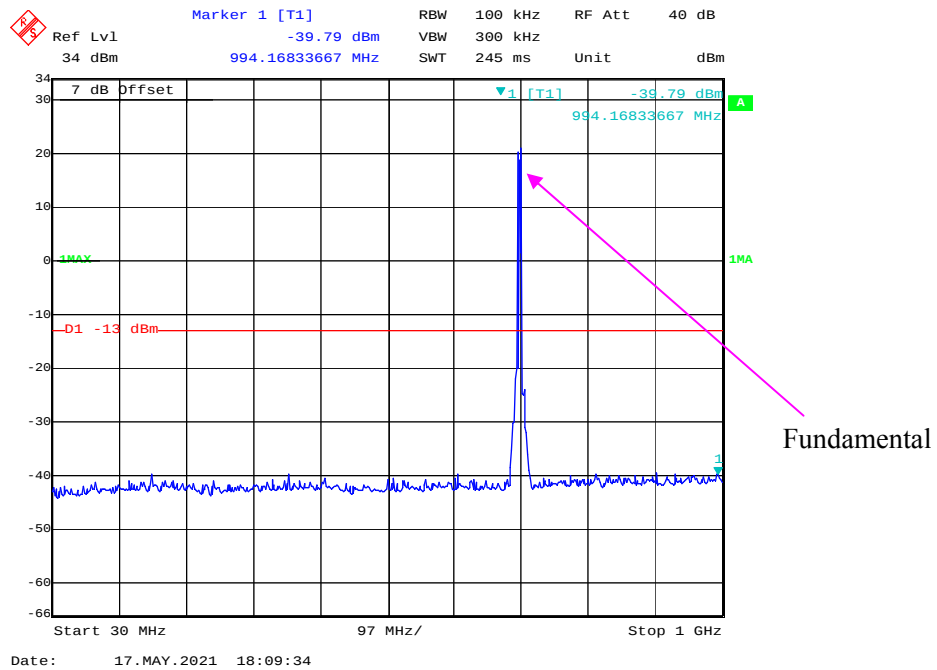
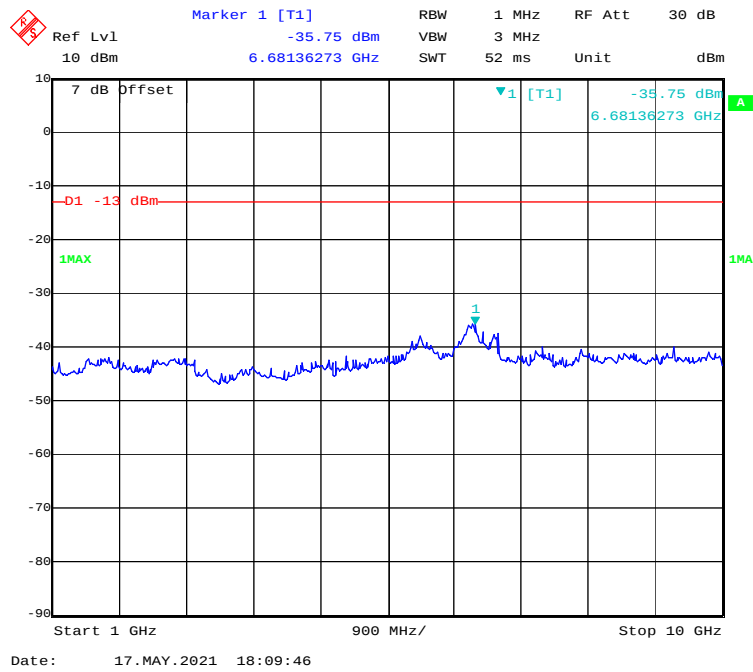


LTE Band 17:**30 MHz - 1 GHz (5 MHz, QPSK, Low Channel)****1 GHz - 10 GHz (5 MHz, QPSK, Low Channel)**

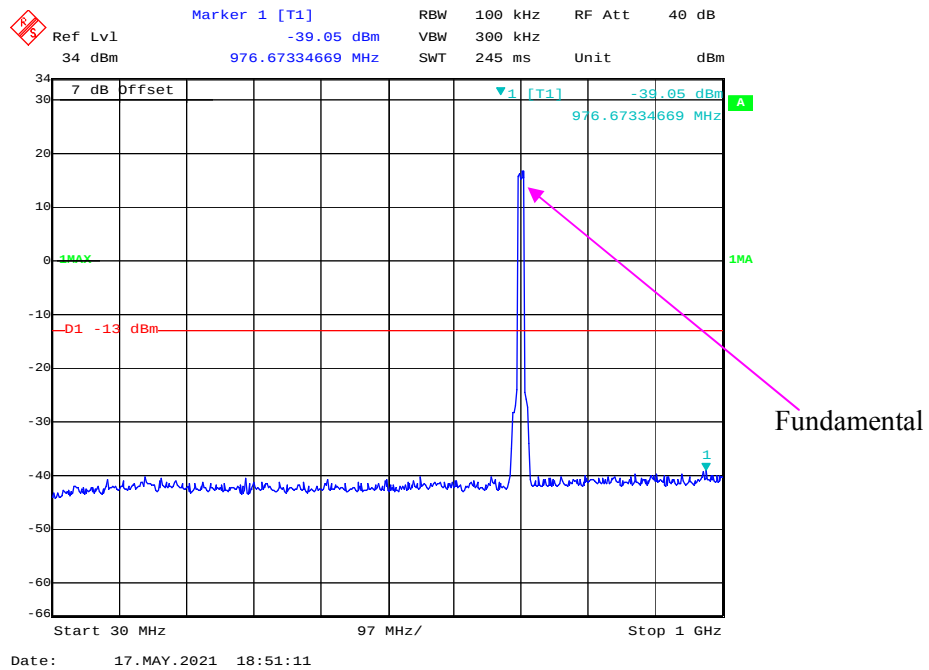
30 MHz - 1 GHz (5 MHz, 16-QAM, Low Channel)



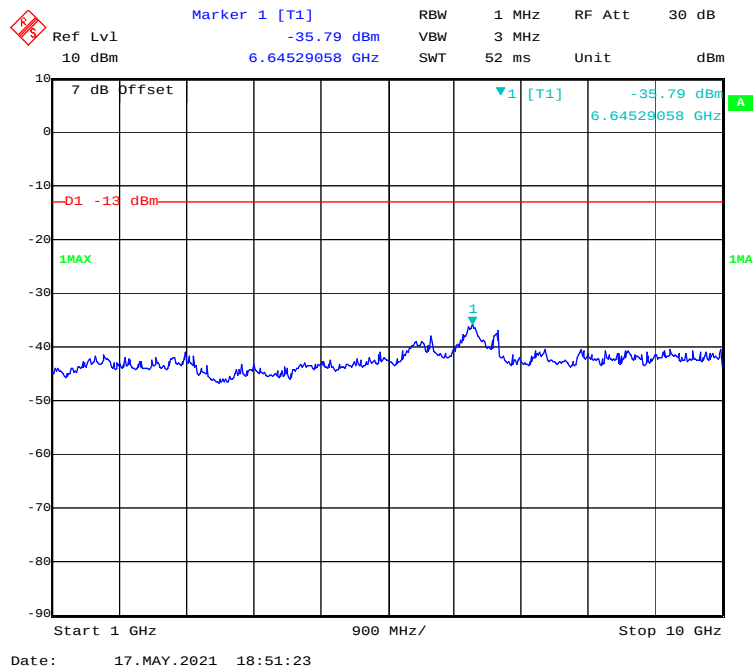
1 GHz - 10 GHz (5 MHz, 16-QAM, Low Channel)

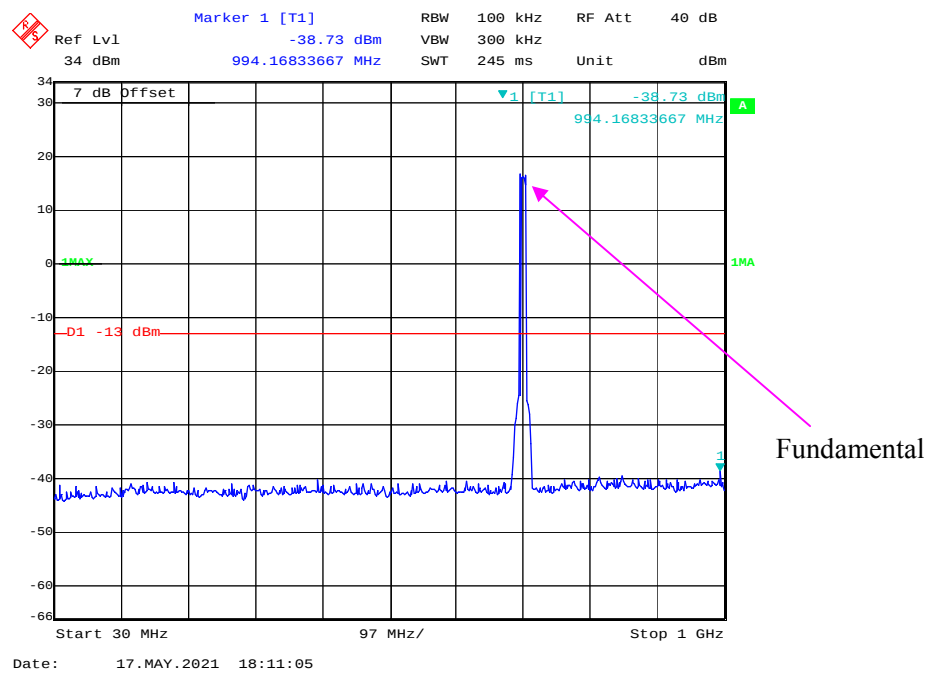
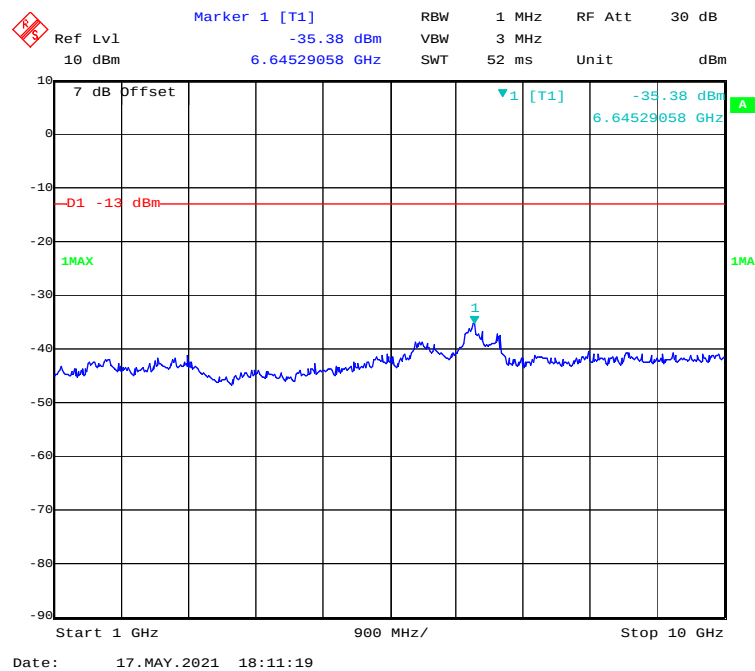


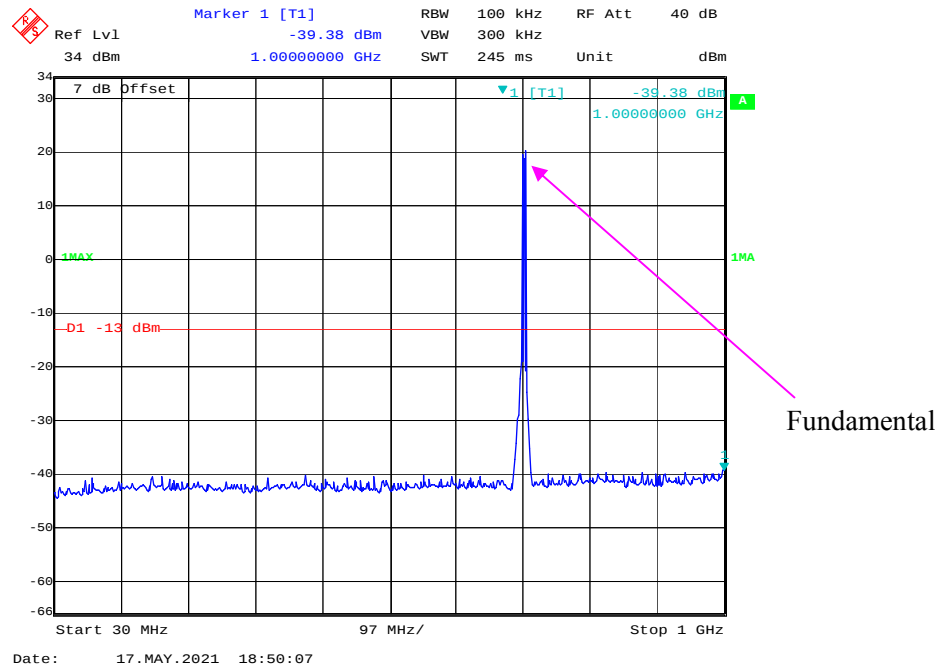
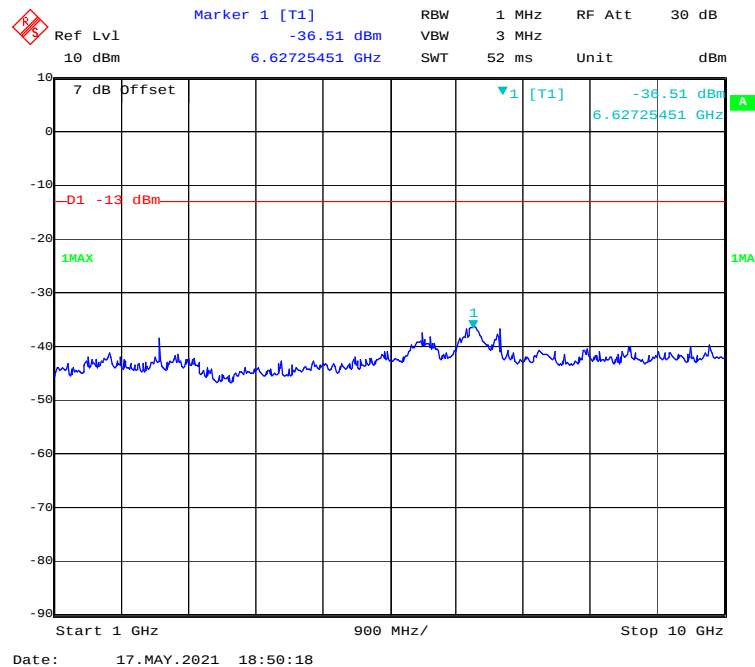
30 MHz - 1 GHz (10 MHz, QPSK, Low Channel)

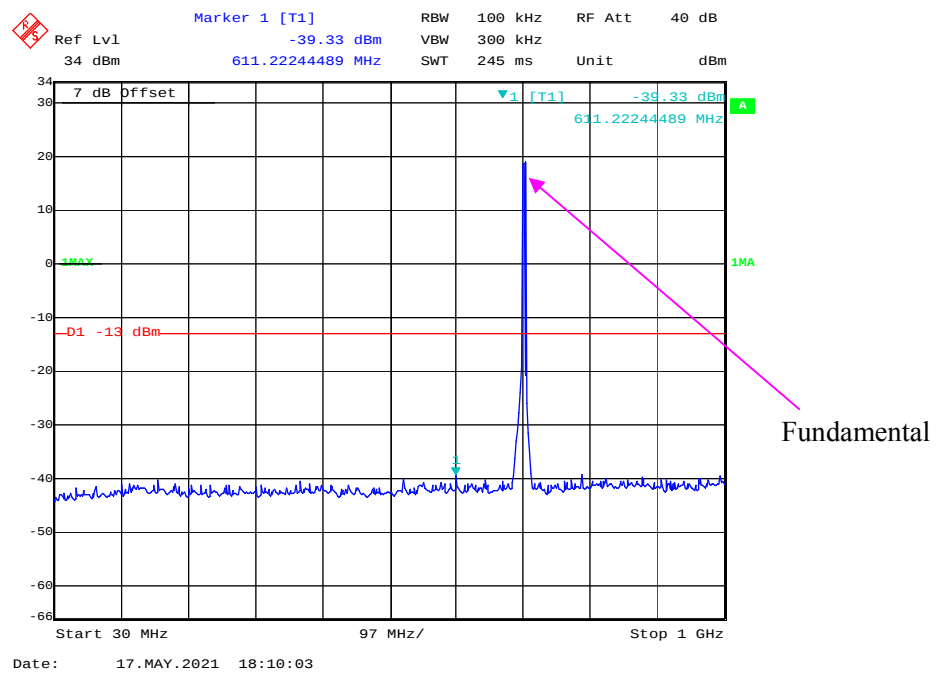
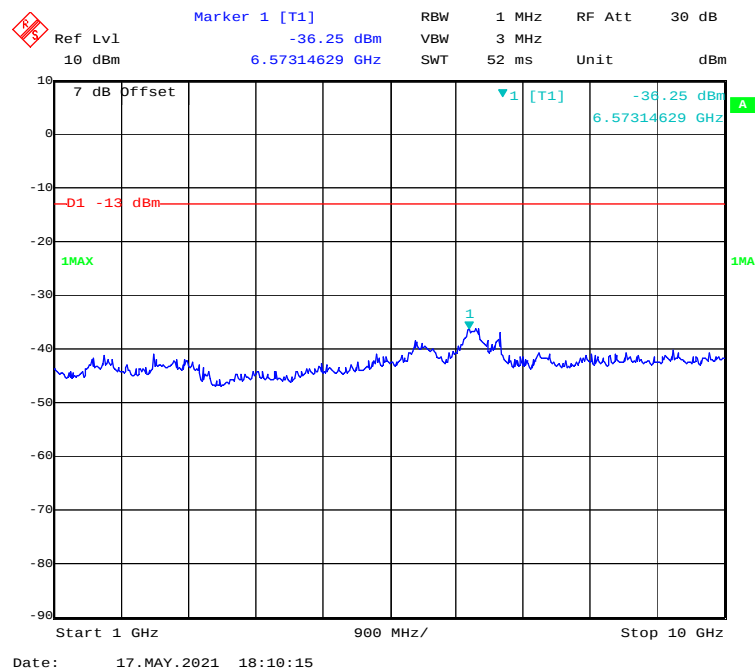


1 GHz – 10 GHz (10 MHz, QPSK, Low Channel)

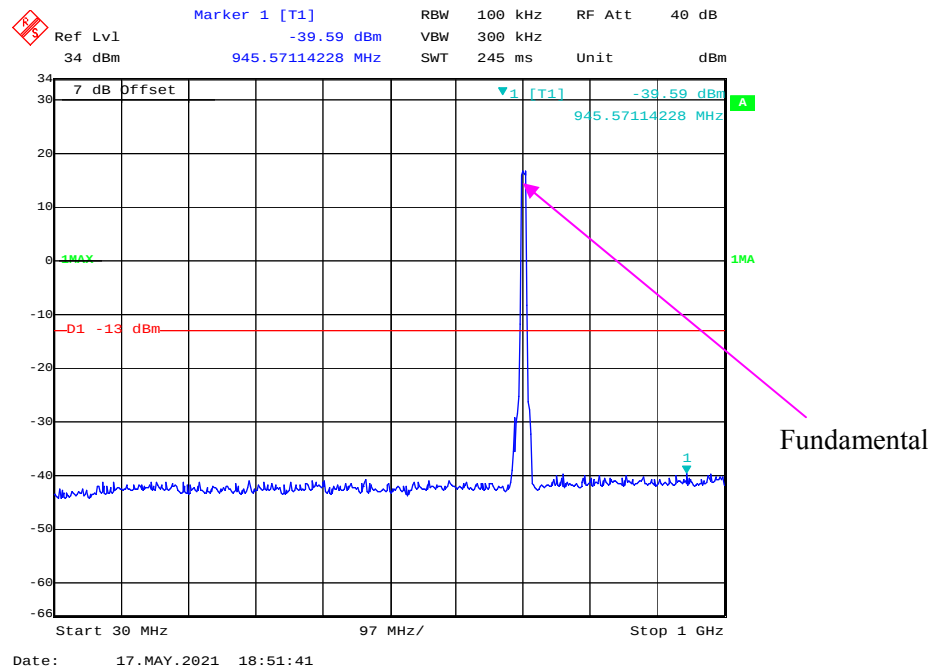


30 MHz - 1 GHz (10 MHz, 16-QAM, Low Channel)**1 GHz – 10 GHz (10 MHz, 16-QAM, Low Channel)**

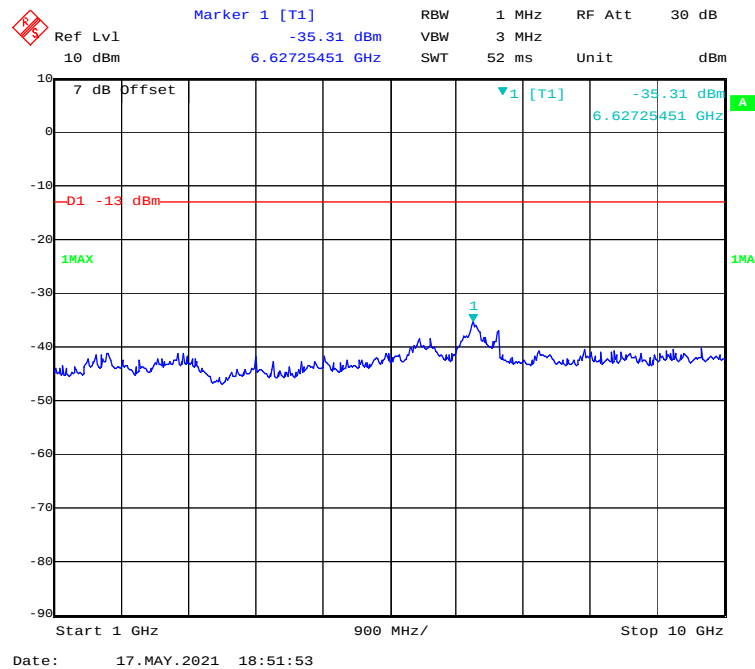
30 MHz - 1 GHz (5 MHz, QPSK, Middle Channel)**1 GHz – 10 GHz (5 MHz, QPSK, Middle Channel)**

30 MHz - 1 GHz (5 MHz, 16-QAM, Middle Channel)**1 GHz – 10 GHz (5 MHz, 16-QAM, Middle Channel)**

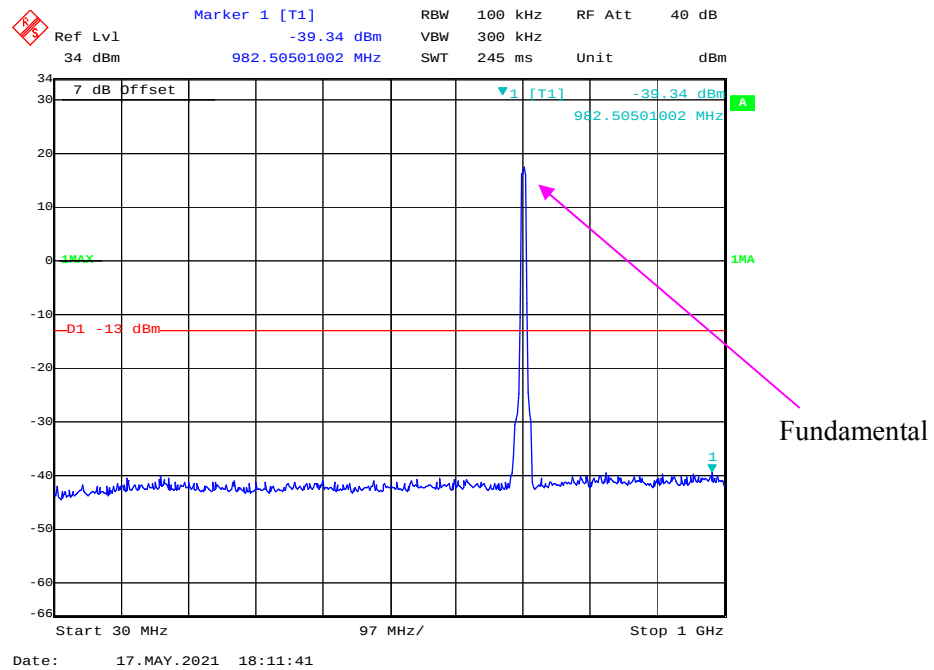
30 MHz - 1 GHz (10 MHz, QPSK, Middle Channel)



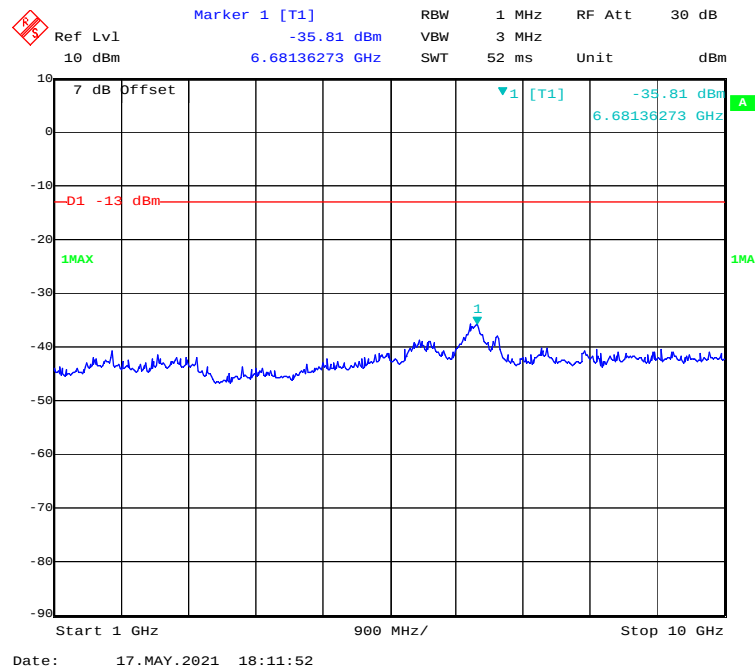
1 GHz – 10 GHz (10 MHz, QPSK, Middle Channel)

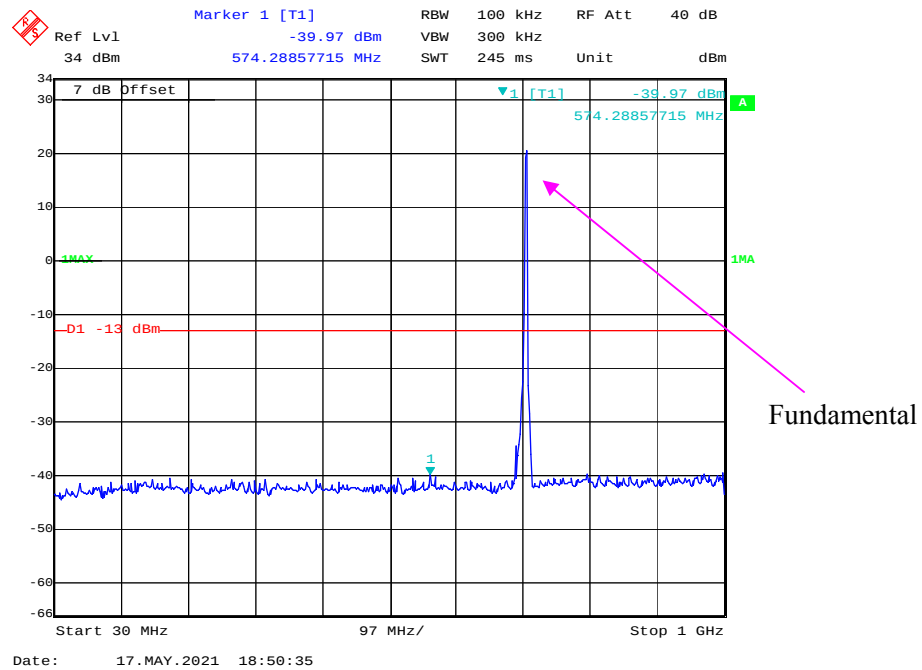
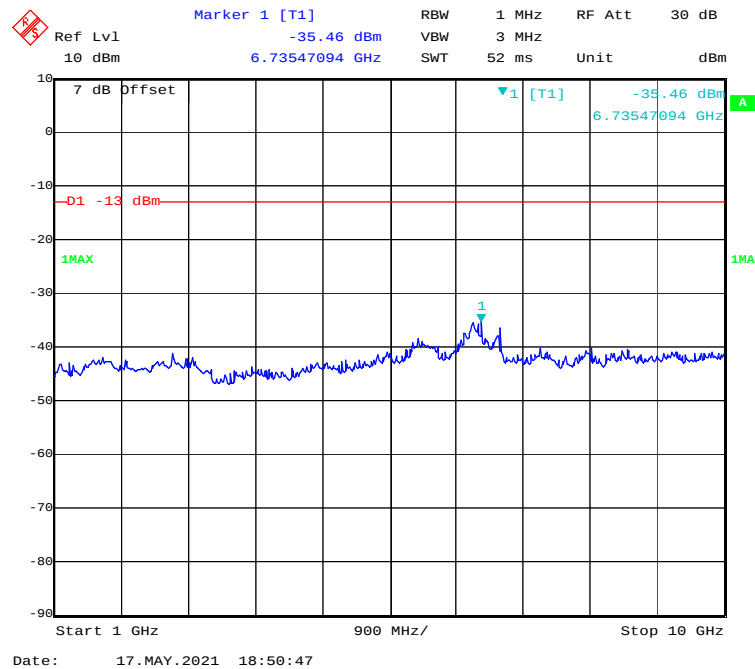


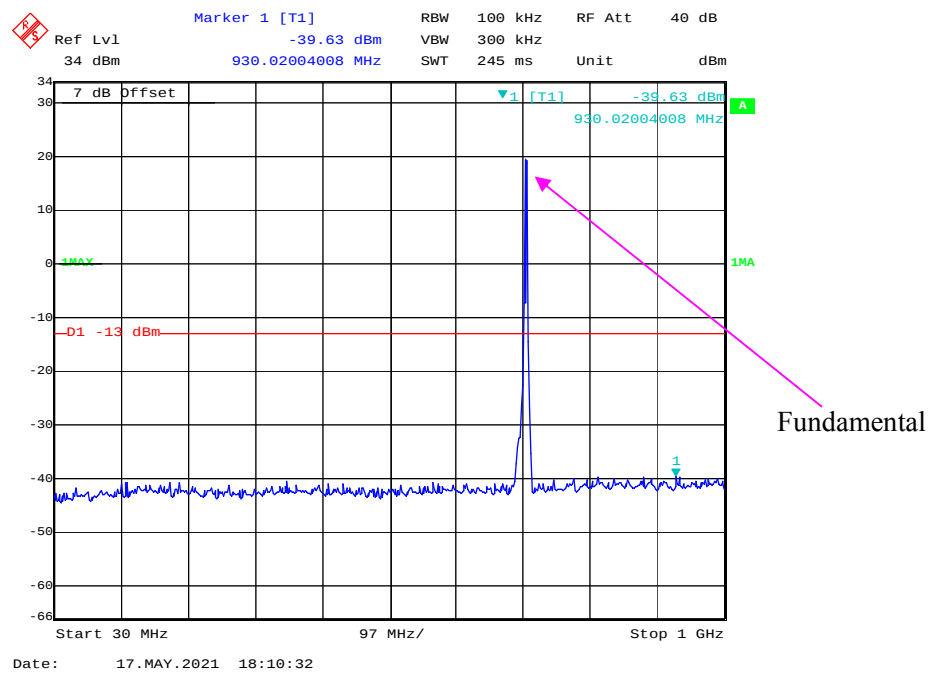
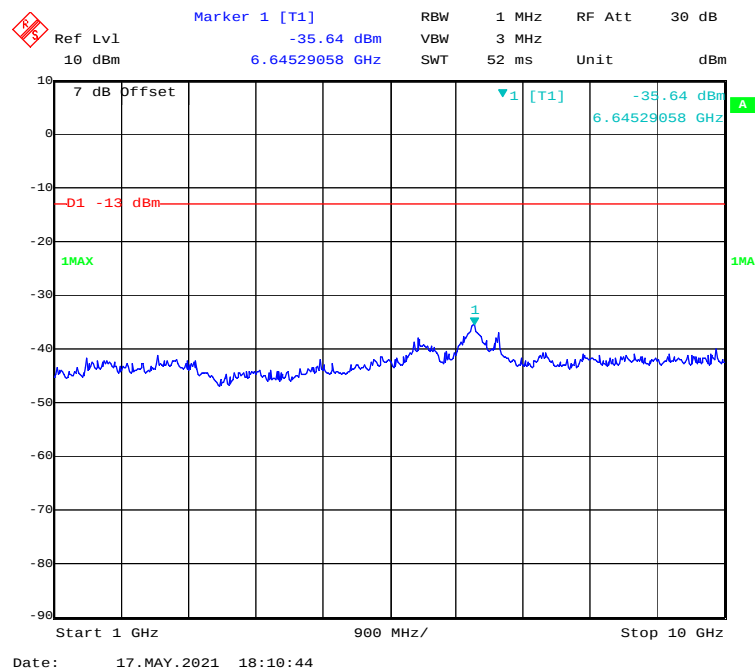
30 MHz - 1 GHz (10 MHz, 16-QAM, Middle Channel)



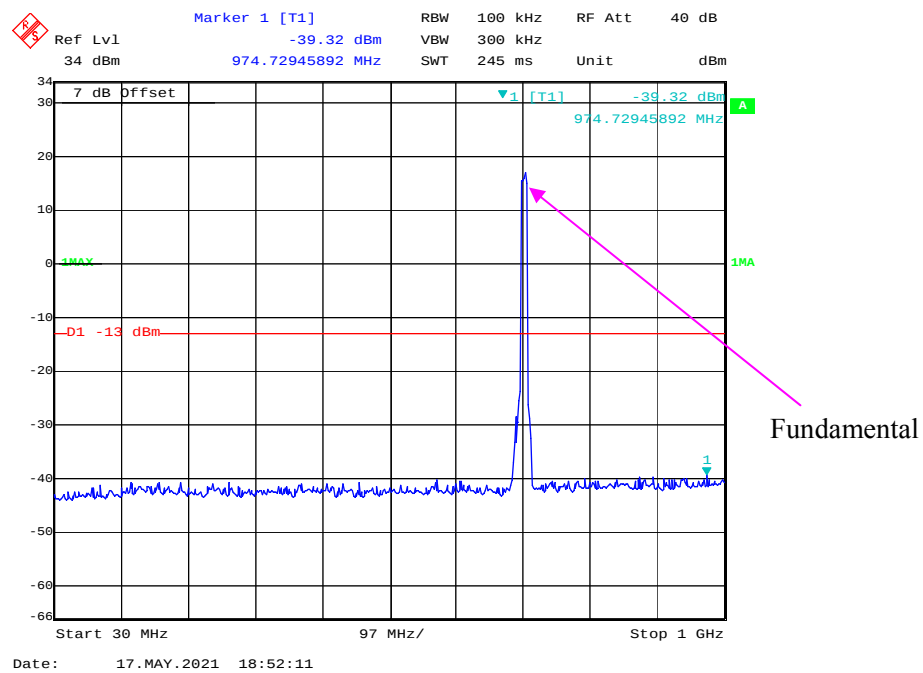
1 GHz – 10 GHz (10 MHz, 16-QAM, Middle Channel)



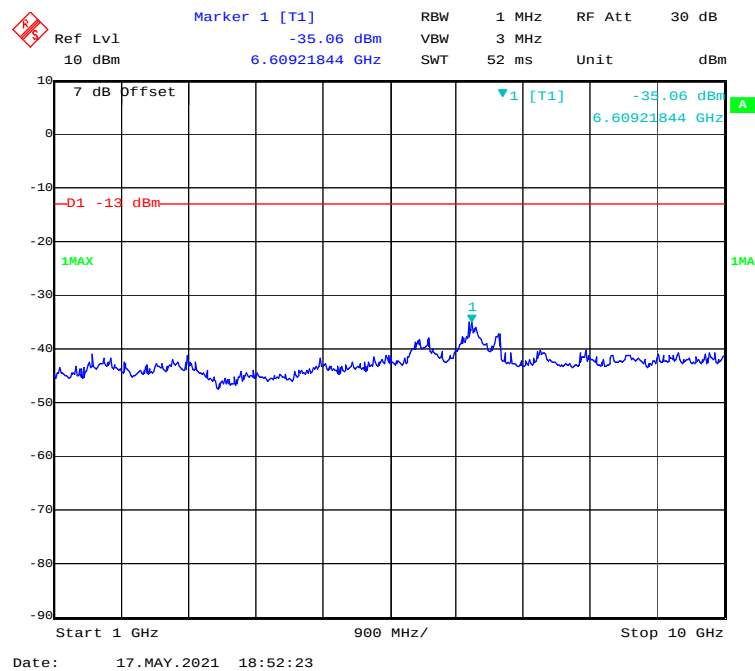
30 MHz - 1 GHz (5 MHz, QPSK, High Channel)**1 GHz – 10 GHz (5 MHz, QPSK, High Channel)**

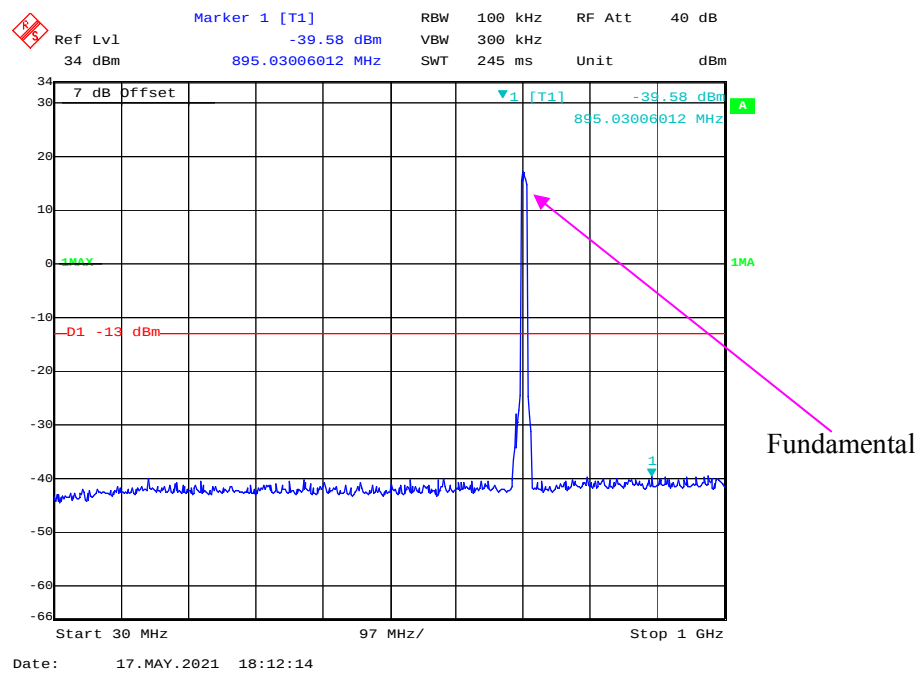
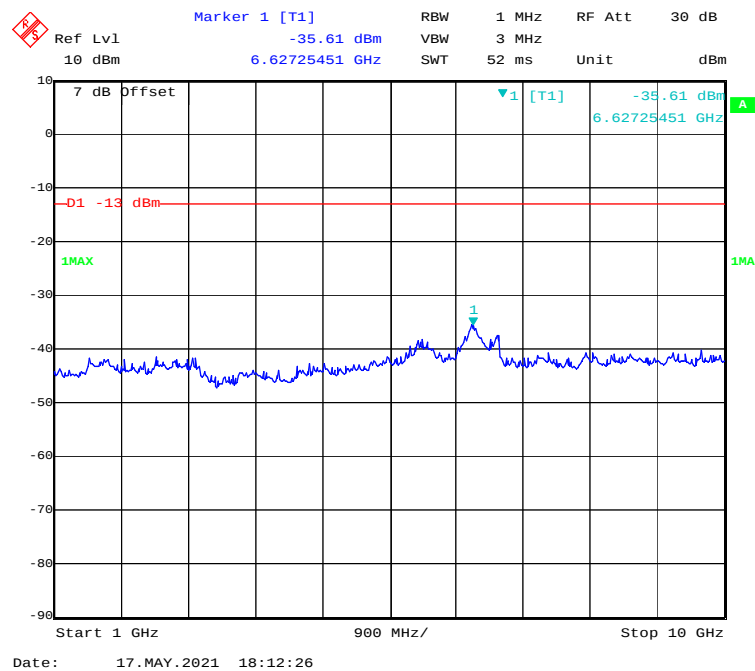
30 MHz - 1 GHz (5 MHz, 16-QAM, High Channel)**1 GHz – 10 GHz (5 MHz, 16-QAM, High Channel)**

30 MHz - 1 GHz (10 MHz, QPSK, High Channel)



1 GHz – 10 GHz (10 MHz, QPSK, High Channel)



30 MHz - 1 GHz (10 MHz, 16-QAM, High Channel)**1 GHz – 10 GHz (10 MHz, 16-QAM, High Channel)**

FCC § 2.1053; § 22.917 (a); § 24.238 (a) ; § 27.53 (g) (h) - SPURIOUS RADIATED EMISSIONS

Applicable Standards

FCC § 2.1053, §22.917(a) ,§ 24.238(a) and § 27.53 (g) (h)

22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.

(h) For operations in the 1710-1755 MHz, 1755-1780 MHz, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

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 = $10 \lg (\text{TX pwr in Watts}/0.001)$ – the absolute level

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

Test Data**Environmental Conditions**

Temperature:	23.5~24.9 °C
Relative Humidity:	50~52 %
ATM Pressure:	100.7~101.9 kPa

The testing was performed by Miller Xie on 2021-06-08.

Test mode: Transmitting (Pre-scan with low, middle and high channels, and the worse case data as below)

30 MHz ~ 10 GHz:

WCDMA Band V

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Mode, Low channel										
90.14	50.65	351	150	H	-52.13	0.32	-6.94	-59.39	-13	46.39
90.14	52.24	246	150	V	-50.54	0.32	-6.94	-57.80	-13	44.80
1652.80	58.56	5	100	H	-54.76	0.84	8.44	-47.16	-13	34.16
1652.80	55.90	73	100	V	-57.42	0.84	8.44	-49.82	-13	36.82
WCDMA Mode, Middle channel										
90.14	49.83	77	150	H	-52.95	0.32	-6.94	-60.21	-13	47.21
90.14	51.54	191	150	V	-51.24	0.32	-6.94	-58.50	-13	45.50
1673.20	58.21	314	100	H	-55.18	0.84	8.48	-47.54	-13	34.54
1673.20	56.29	297	100	V	-57.10	0.84	8.48	-49.46	-13	36.46
WCDMA Mode, High channel										
226.79	49.13	180	150	H	-53.65	0.32	-6.94	-60.91	-13	47.91
226.79	52.69	295	150	V	-50.09	0.32	-6.94	-57.35	-13	44.35
1693.20	58.17	285	100	H	-54.86	0.84	8.51	-47.19	-13	34.19
1693.20	56.53	312	100	V	-56.50	0.84	8.51	-48.83	-13	35.83

30 MHz ~ 20 GHz:**WCDMA Band II**

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Mode, Low channel										
90.50	50.16	353	150	H	-52.46	0.32	-6.91	-59.69	-13	46.69
90.50	52.89	219	150	V	-49.73	0.32	-6.91	-56.96	-13	43.96
3704.80	48.74	261	200	H	-58.22	0.95	9.78	-49.39	-13	36.39
3704.80	46.94	164	100	V	-60.02	0.95	9.78	-51.19	-13	38.19
WCDMA Mode, Middle channel										
90.50	51.05	345	150	H	-51.57	0.32	-6.91	-58.80	-13	45.80
90.50	53.19	118	150	V	-49.43	0.32	-6.91	-56.66	-13	43.66
3760.00	48.95	331	200	H	-57.83	0.95	9.74	-49.04	-13	36.04
3760.00	46.71	316	100	V	-60.07	0.95	9.74	-51.28	-13	38.28
WCDMA Mode, High channel										
90.50	50.19	45	150	H	-52.43	0.32	-6.91	-59.66	-13	46.66
90.50	52.76	68	150	V	-49.86	0.32	-6.91	-57.09	-13	44.09
3815.20	47.36	311	200	H	-59.24	0.96	9.71	-50.49	-13	37.49
3815.20	44.36	210	100	V	-62.24	0.96	9.71	-53.49	-13	40.49

Note:

- 1) Absolute Level (dBm) = Submitted Level (dBm) - Cable loss (dB) + Antenna Gain (dBd/dBi)
- 2) Margin (dB) = Limit (dBm) - Absolute Level (dBm)

Test mode: Transmitting (Pre-scan with all the bandwidth, and worse case as below)

30 MHz ~ 20 GHz:

LTE Band 2:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
32.06	38.03	294	100	H	-42.71	0.15	-26.89	-69.75	-13	56.75
32.06	38.15	9	200	V	-42.59	0.15	-26.89	-69.63	-13	56.63
3701.40	48.69	66	150	H	-58.27	0.95	9.78	-49.44	-13	36.44
3701.40	49.08	249	100	V	-57.88	0.95	9.78	-49.05	-13	36.05
16-QAM 1.4MHz Bandwidth Low Channel										
32.06	38.35	272	150	H	-42.39	0.15	-26.89	-69.43	-13	56.43
32.06	38.04	153	150	V	-42.70	0.15	-26.89	-69.74	-13	56.74
3701.40	49.56	47	200	H	-57.40	0.95	9.78	-48.57	-13	35.57
3701.40	49.55	307	200	V	-57.41	0.95	9.78	-48.58	-13	35.58

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Middle Channel										
32.06	37.53	302	100	H	-43.21	0.15	-26.89	-70.25	-13	57.25
32.06	37.86	136	100	V	-42.88	0.15	-26.89	-69.92	-13	56.92
3760.00	47.86	210	150	H	-58.92	0.95	9.74	-50.13	-13	37.13
3760.00	48.48	16	100	V	-58.30	0.95	9.74	-49.51	-13	36.51
16-QAM 1.4MHz Bandwidth Middle Channel										
32.06	38.14	294	150	H	-42.60	0.15	-26.89	-69.64	-13	56.64
32.06	37.75	210	150	V	-42.99	0.15	-26.89	-70.03	-13	57.03
3760.00	48.66	72	200	H	-58.12	0.95	9.74	-49.33	-13	36.33
3760.00	48.76	60	200	V	-58.02	0.95	9.74	-49.23	-13	36.23

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth High Channel										
32.06	37.65	329	100	H	-43.09	0.15	-26.89	-70.13	-13	57.13
32.06	38.17	293	200	V	-42.57	0.15	-26.89	-69.61	-13	56.61
3818.60	48.97	124	150	H	-57.63	0.96	9.71	-48.88	-13	35.88
3818.60	49.68	74	100	V	-56.92	0.96	9.71	-48.17	-13	35.17
16-QAM 1.4MHz Bandwidth High Channel										
32.06	38.99	181	150	H	-41.75	0.15	-26.89	-68.79	-13	55.79
32.06	38.37	93	150	V	-42.37	0.15	-26.89	-69.41	-13	56.41
3818.60	49.84	71	200	H	-56.76	0.96	9.71	-48.01	-13	35.01
3818.60	50.09	93	200	V	-56.51	0.96	9.71	-47.76	-13	34.76

30 MHz ~ 20 GHz:**LTE Band 4:**

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
32.43	41.90	148	100	H	-39.32	0.15	-26.59	-66.06	-13	53.06
32.43	41.95	312	200	V	-39.27	0.15	-26.59	-66.01	-13	53.01
3421.40	49.36	52	150	H	-58.58	0.93	9.82	-49.69	-13	36.69
3421.40	50.92	39	100	V	-57.02	0.93	9.82	-48.13	-13	35.13
16-QAM 1.4MHz Bandwidth Low Channel										
32.43	41.96	100	150	H	-39.26	0.15	-26.59	-66.00	-13	53.00
32.43	41.40	123	150	V	-39.82	0.15	-26.59	-66.56	-13	53.56
3421.40	51.72	280	200	H	-56.22	0.93	9.82	-47.33	-13	34.33
3421.40	49.60	262	200	V	-58.34	0.93	9.82	-49.45	-13	36.45

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Middle Channel										
32.43	41.24	54	100	H	-39.98	0.15	-26.59	-66.72	-13	53.72
32.43	42.20	175	200	V	-39.02	0.15	-26.59	-65.76	-13	52.76
3465.00	49.10	241	150	H	-58.65	0.93	9.87	-49.71	-13	36.71
3465.00	49.90	217	100	V	-57.85	0.93	9.87	-48.91	-13	35.91
16-QAM 1.4MHz Bandwidth Middle Channel										
32.43	42.23	200	150	H	-38.99	0.15	-26.59	-65.73	-13	52.73
32.43	42.00	151	150	V	-39.22	0.15	-26.59	-65.96	-13	52.96
3465.00	49.49	342	200	H	-58.26	0.93	9.87	-49.32	-13	36.32
3465.00	50.73	312	200	V	-57.02	0.93	9.87	-48.08	-13	35.08

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth High Channel										
32.43	41.97	26	100	H	-39.25	0.15	-26.59	-65.99	-13	52.99
32.43	42.17	153	200	V	-39.05	0.15	-26.59	-65.79	-13	52.79
3508.60	49.53	200	150	H	-58.04	0.93	9.90	-49.07	-13	36.07
3508.60	51.36	140	100	V	-56.21	0.93	9.90	-47.24	-13	34.24
16-QAM 1.4MHz Bandwidth High Channel										
32.43	42.83	209	150	H	-38.39	0.15	-26.59	-65.13	-13	52.13
32.43	42.04	285	150	V	-39.18	0.15	-26.59	-65.92	-13	52.92
3508.60	52.10	127	200	H	-55.47	0.93	9.90	-46.50	-13	33.50
3508.60	49.34	67	200	V	-58.23	0.93	9.90	-49.26	-13	36.26

LTE Band 5:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
35.34	44.94	63	100	H	-40.07	0.17	-24.25	-64.49	-13	51.49
35.34	44.47	106	200	V	-40.54	0.17	-24.25	-64.96	-13	51.96
1649.40	74.38	38	150	H	-38.96	0.84	8.44	-31.36	-13	18.36
1649.40	74.51	249	100	V	-38.83	0.84	8.44	-31.23	-13	18.23
16-QAM 1.4MHz Bandwidth Low Channel										
35.34	45.02	329	150	H	-39.99	0.17	-24.25	-64.41	-13	51.41
35.34	44.78	12	150	V	-40.23	0.17	-24.25	-64.65	-13	51.65
1649.40	75.35	360	200	H	-37.99	0.84	8.44	-30.39	-13	17.39
1649.40	74.85	333	200	V	-38.49	0.84	8.44	-30.89	-13	17.89

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Middle Channel										
35.34	44.36	275	100	H	-40.65	0.17	-24.25	-65.07	-13	52.07
35.34	44.57	208	200	V	-40.44	0.17	-24.25	-64.86	-13	51.86
1673.00	73.59	289	150	H	-39.80	0.84	8.48	-32.16	-13	19.16
1673.00	74.35	125	100	V	-39.04	0.84	8.48	-31.40	-13	18.40
16-QAM 1.4MHz Bandwidth Middle Channel										
35.34	45.06	157	150	H	-39.95	0.17	-24.25	-64.37	-13	51.37
35.34	44.91	334	150	V	-40.10	0.17	-24.25	-64.52	-13	51.52
1673.00	73.77	42	200	H	-39.62	0.84	8.48	-31.98	-13	18.98
1673.00	75.23	315	200	V	-38.16	0.84	8.48	-30.52	-13	17.52

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth High Channel										
35.34	44.46	228	100	H	-40.55	0.17	-24.25	-64.97	-13	51.97
35.34	45.34	235	200	V	-39.67	0.17	-24.25	-64.09	-13	51.09
1696.60	74.06	10	150	H	-38.95	0.84	8.51	-31.28	-13	18.28
1696.60	74.77	192	100	V	-38.24	0.84	8.51	-30.57	-13	17.57
16-QAM 1.4MHz Bandwidth High Channel										
35.34	45.52	6	150	H	-39.49	0.17	-24.25	-63.91	-13	50.91
35.34	45.18	319	150	V	-39.83	0.17	-24.25	-64.25	-13	51.25
1696.60	75.93	171	200	H	-37.08	0.84	8.51	-29.41	-13	16.41
1696.60	74.85	1	200	V	-38.16	0.84	8.51	-30.49	-13	17.49

30 MHz ~ 10 GHz:
LTE Band 12:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Low Channel										
90.14	44.12	154	100	H	-58.66	0.32	-6.94	-65.92	-13	52.92
90.14	45.05	24	200	V	-57.73	0.32	-6.94	-64.99	-13	51.99
1399.40	58.39	196	150	H	-55.78	0.82	7.92	-48.68	-13	35.68
1399.40	58.89	357	100	V	-55.28	0.82	7.92	-48.18	-13	35.18
16-QAM 1.4MHz Bandwidth Low Channel										
223.63	43.89	160	150	H	-59.75	0.43	-3.15	-63.33	-13	50.33
223.63	44.30	148	150	V	-59.34	0.43	-3.15	-62.92	-13	49.92
1399.40	58.91	320	200	H	-55.26	0.82	7.92	-48.16	-13	35.16
1399.40	59.28	57	200	V	-54.89	0.82	7.92	-47.79	-13	34.79

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth Middle Channel										
90.14	43.28	63	100	H	-59.50	0.32	-6.94	-66.76	-13	53.76
90.14	43.57	162	200	V	-59.21	0.32	-6.94	-66.47	-13	53.47
1415.00	57.10	23	150	H	-57.10	0.82	7.96	-49.96	-13	36.96
1415.00	57.42	203	100	V	-56.78	0.82	7.96	-49.64	-13	36.64
16-QAM 1.4MHz Bandwidth Middle Channel										
90.14	43.43	329	150	H	-59.35	0.32	-6.94	-66.61	-13	53.61
90.14	44.19	69	150	V	-58.59	0.32	-6.94	-65.85	-13	52.85
1415.00	58.02	208	200	H	-56.18	0.82	7.96	-49.04	-13	36.04
1415.00	57.81	269	200	V	-56.39	0.82	7.96	-49.25	-13	36.25

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4MHz Bandwidth High Channel										
90.14	44.16	307	100	H	-58.62	0.32	-6.94	-65.88	-13	52.88
90.14	43.29	187	200	V	-59.49	0.32	-6.94	-66.75	-13	53.75
1430.60	57.94	85	150	H	-56.29	0.82	8	-49.11	-13	36.11
1430.60	58.16	328	100	V	-56.07	0.82	8	-48.89	-13	35.89
16-QAM 1.4MHz Bandwidth High Channel										
90.14	43.92	312	150	H	-58.86	0.32	-6.94	-66.12	-13	53.12
90.14	43.68	272	150	V	-59.10	0.32	-6.94	-66.36	-13	53.36
1430.60	58.87	61	200	H	-55.36	0.82	8	-48.18	-13	35.18
1430.60	58.94	328	200	V	-55.29	0.82	8	-48.11	-13	35.11

30 MHz ~ 10 GHz:
LTE Band 17:

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Low Channel										
89.90	44.44	117	100	H	-58.45	0.31	-6.96	-65.72	-13	52.72
89.90	44.09	70	200	V	-58.80	0.31	-6.96	-66.07	-13	53.07
1413.00	64.93	218	150	H	-50.04	0.83	8.06	-42.81	-13	29.81
1413.00	64.81	264	100	V	-50.16	0.83	8.06	-42.93	-13	29.93
16-QAM 5MHz Bandwidth Low Channel										
89.90	44.35	339	100	H	-58.54	0.31	-6.96	-65.81	-13	52.81
89.90	44.01	117	200	V	-58.88	0.31	-6.96	-66.15	-13	53.15
1413.00	65.87	206	200	H	-49.10	0.83	8.06	-41.87	-13	28.87
1413.00	65.35	113	200	V	-49.62	0.83	8.06	-42.39	-13	29.39

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth Middle Channel										
89.90	43.77	118	100	H	-59.12	0.31	-6.96	-66.39	-13	53.39
89.90	44.05	320	200	V	-58.84	0.31	-6.96	-66.11	-13	53.11
1420.00	63.42	335	150	H	-51.50	0.83	8.07	-44.26	-13	31.26
1420.00	63.99	216	100	V	-50.93	0.83	8.07	-43.69	-13	30.69
16-QAM 5MHz Bandwidth Middle Channel										
89.90	43.86	162	100	H	-59.03	0.31	-6.96	-66.3	-13	53.30
89.90	43.79	197	200	V	-59.1	0.31	-6.96	-66.37	-13	53.37
1420.00	64.02	137	200	H	-50.90	0.83	8.07	-43.66	-13	30.66
1420.00	64.54	72	200	V	-50.38	0.83	8.07	-43.14	-13	30.14

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5MHz Bandwidth High Channel										
89.90	44.44	117	100	H	-58.45	0.31	-6.96	-65.72	-13	52.72
89.90	44.09	70	200	V	-58.80	0.31	-6.96	-66.07	-13	53.07
1427.00	64.36	8	150	H	-50.52	0.83	8.08	-43.27	-13	30.27
1427.00	64.07	305	100	V	-50.81	0.83	8.08	-43.56	-13	30.56
16-QAM 5MHz Bandwidth High Channel										
89.90	44.35	339	100	H	-58.54	0.31	-6.96	-65.81	-13	52.81
89.90	44.01	117	200	V	-58.88	0.31	-6.96	-66.15	-13	53.15
1427.00	64.99	128	200	H	-49.89	0.83	8.08	-42.64	-13	29.64
1427.00	65.07	136	200	V	-49.81	0.83	8.08	-42.56	-13	29.56

Note:

- 1) Absolute Level (dBm) = Submitted Level (dBm) - Cable loss (dB) + Antenna Gain (dBd/dBi)
- 2) Margin (dB) = Limit (dBm) - Absolute Level (dBm)

FCC § 22.917 (a); § 24.238 (a); §27.53 (g) (h)- BAND EDGES

Applicable Standards

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

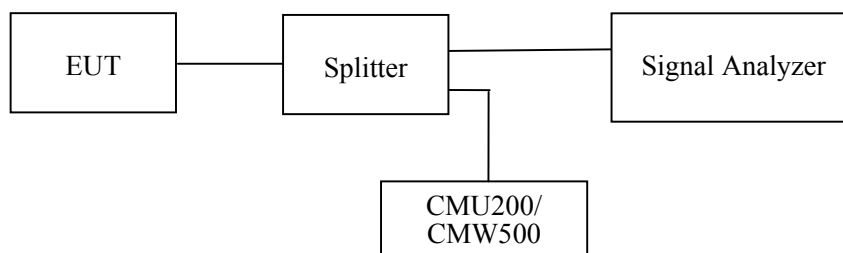
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC §2.1051. The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth.

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 Data

Environmental Conditions

Temperature:	24.9~25.3 °C
Relative Humidity:	50~52 %
ATM Pressure:	100.7~102.9 kPa

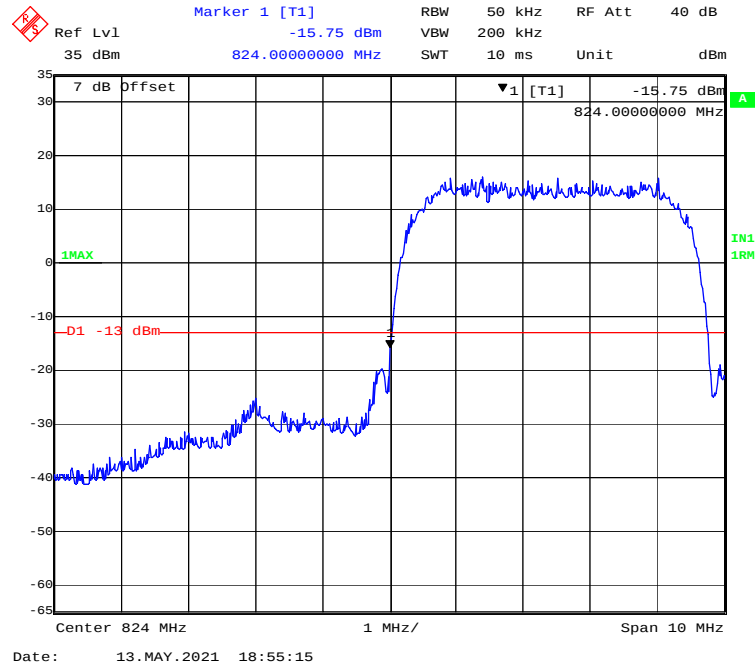
The testing was performed by Miller Xie from 2021-05-13 to 2021-05-23.

EUT operation mode: Transmitting

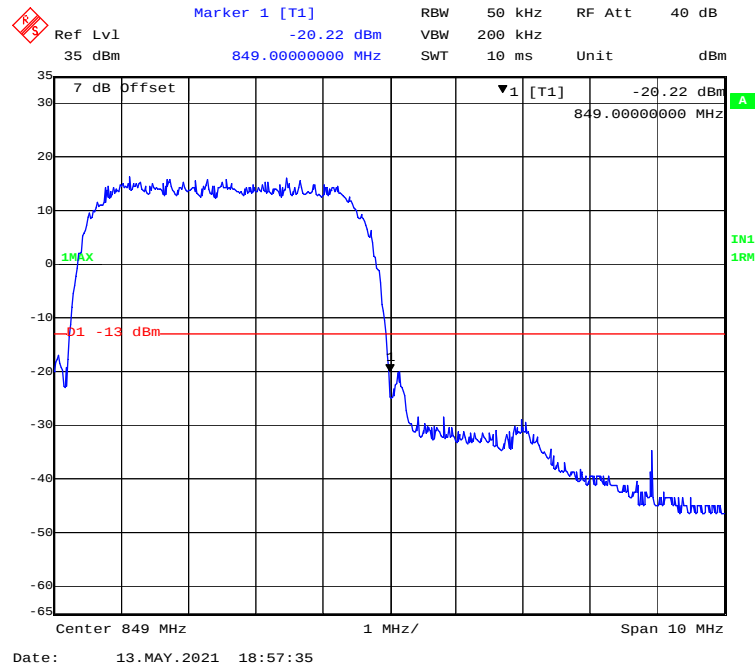
Test Result: Compliance.

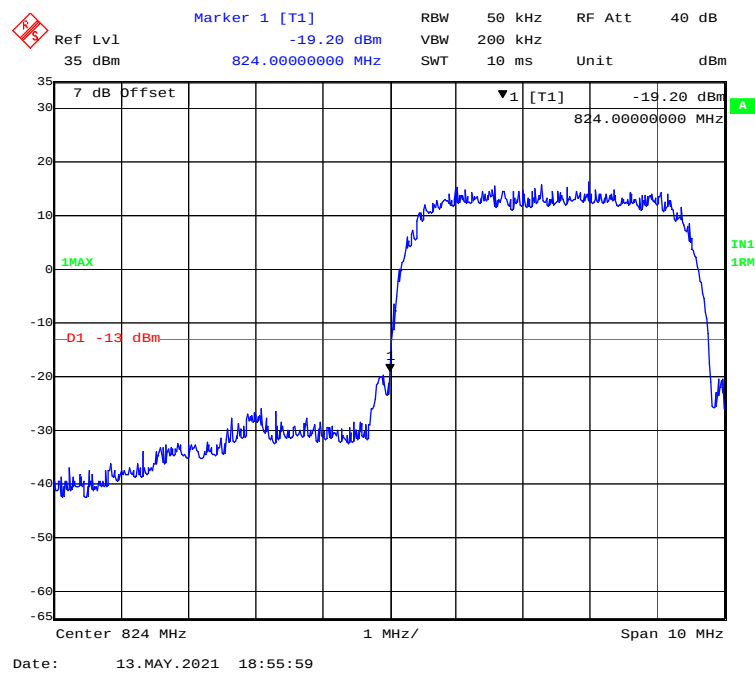
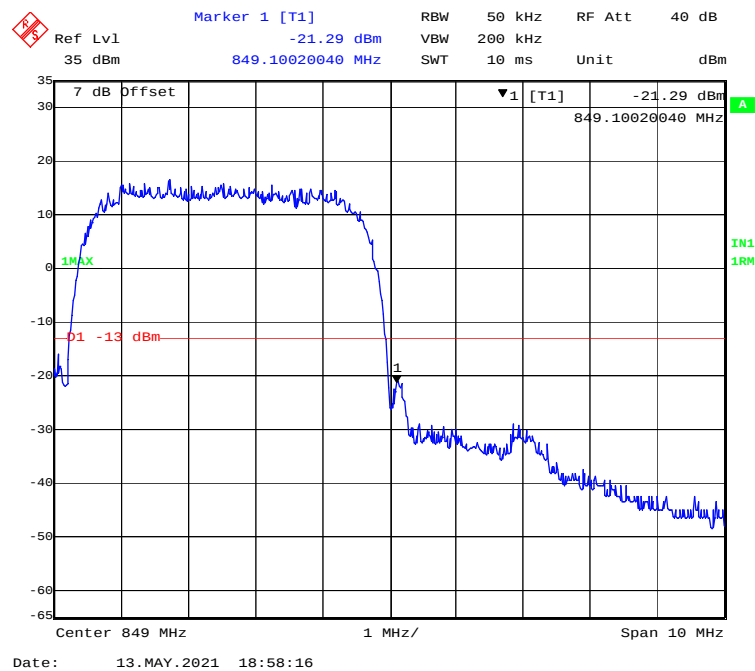
WCDMA Band V

WCDMA (Rel 99) Mode, Left Band Edge

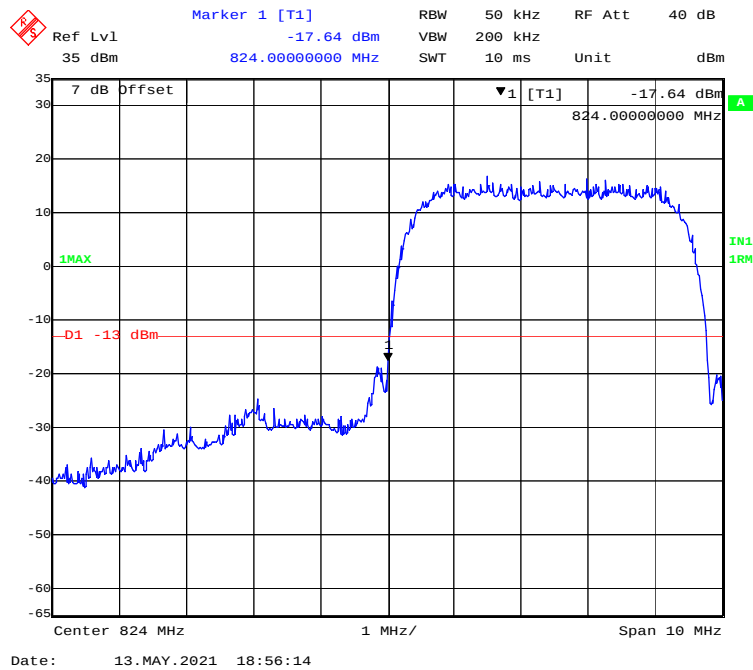


WCDMA (Rel 99) Mode, Right Band Edge

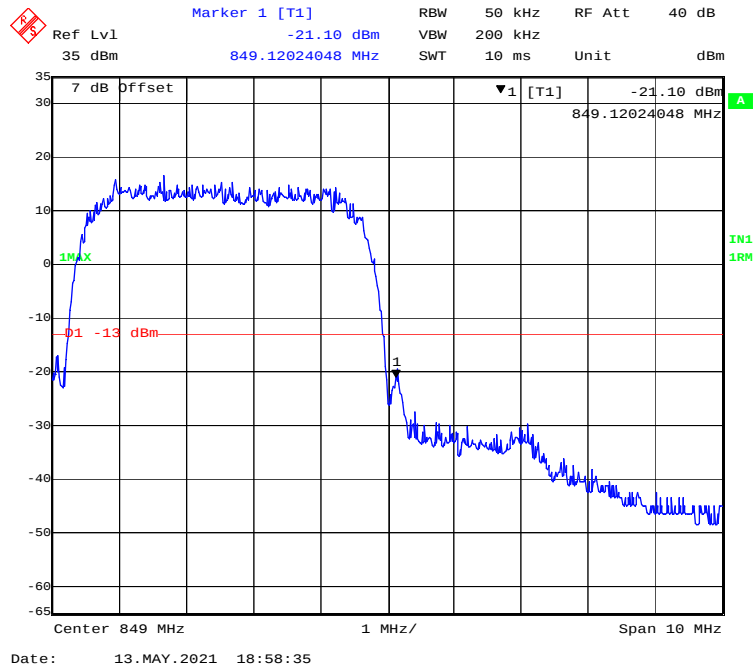


WCDMA (HSDPA) Mode, Left Band Edge**WCDMA (HSDPA) Mode, Right Band Edge**

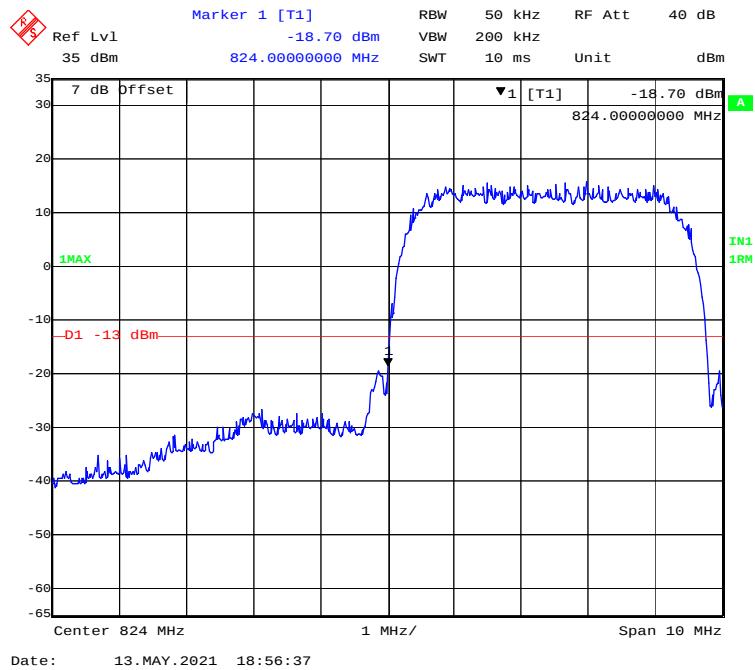
WCDMA (HSUPA) Mode, Left Band Edge



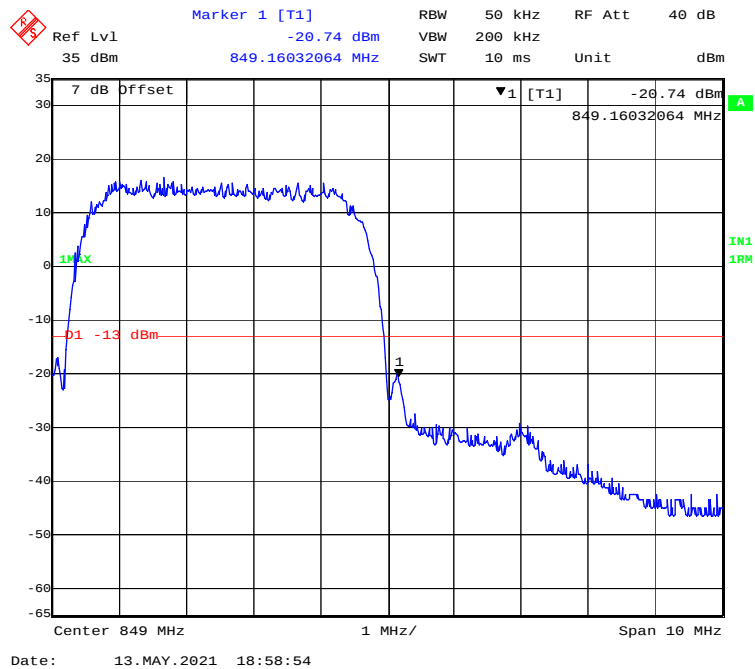
WCDMA (HSUPA) Mode, Right Band Edge

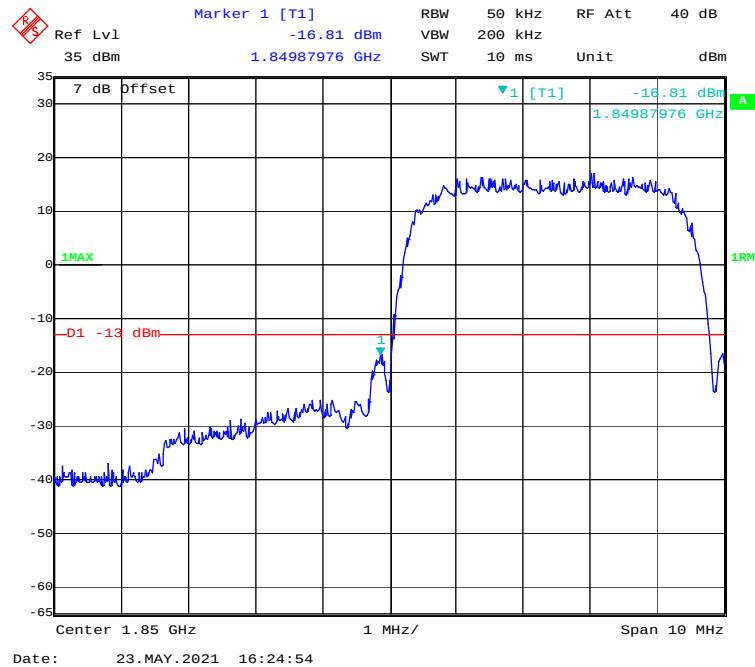
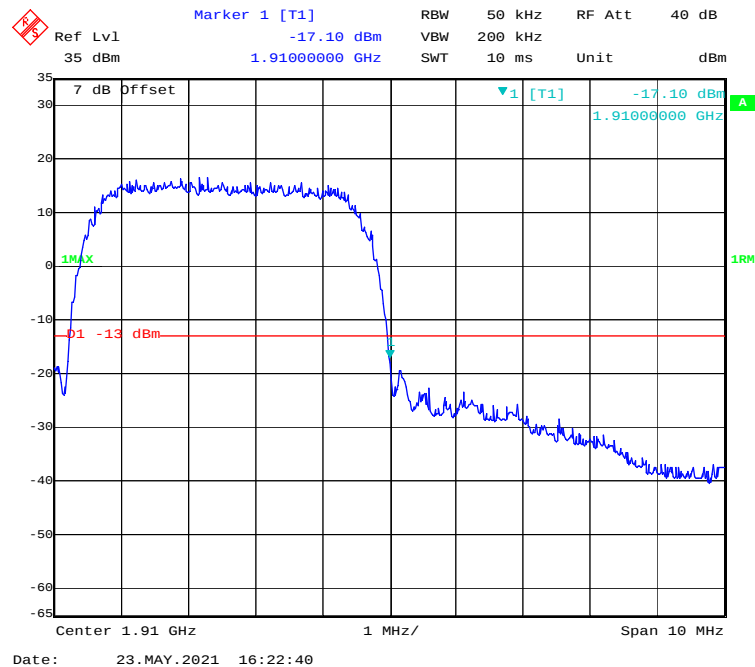


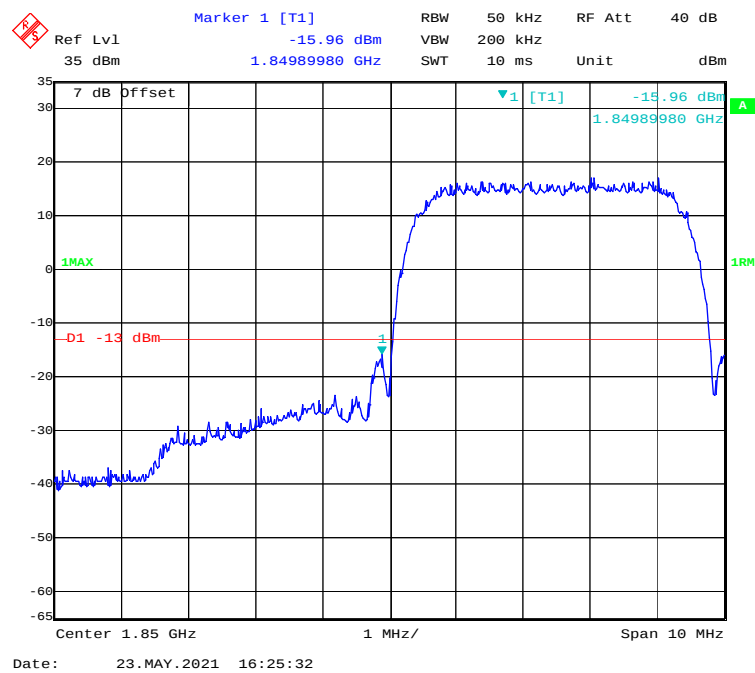
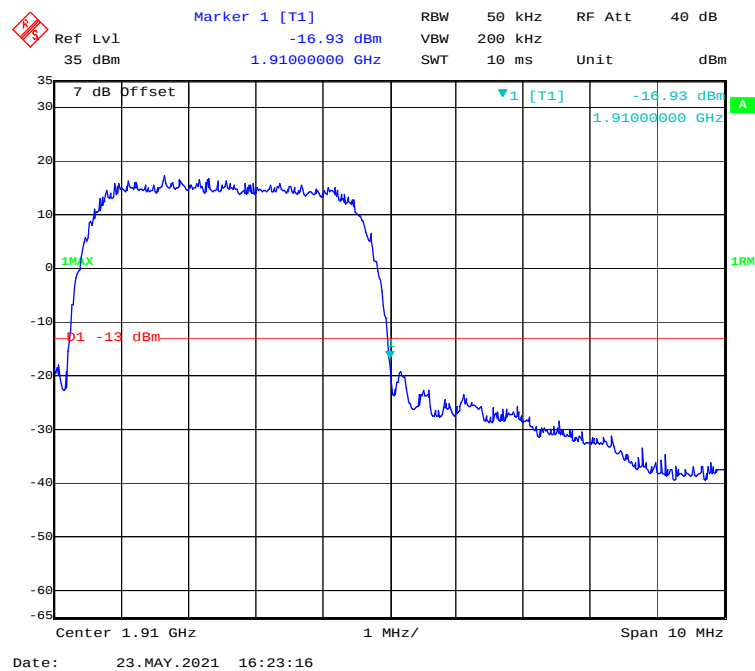
WCDMA (HSPA+) Mode, Left Band Edge



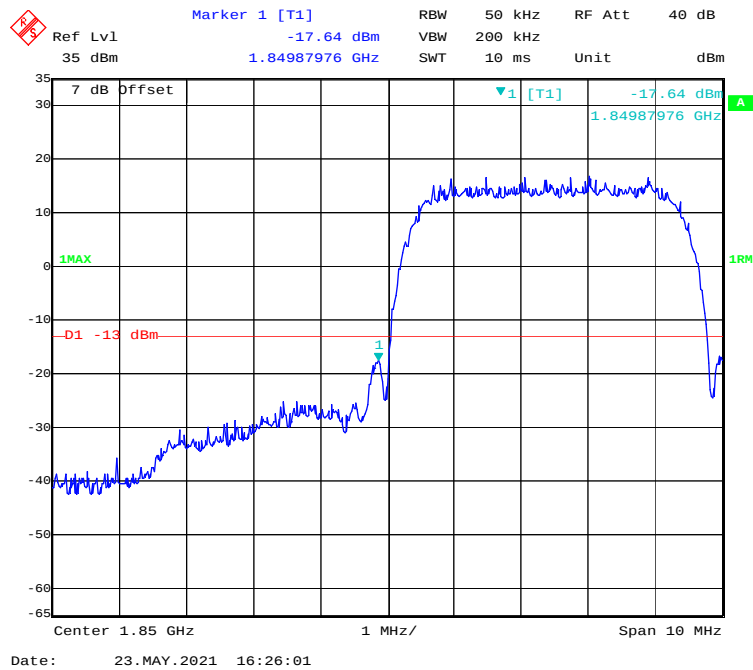
WCDMA (HSPA+) Mode, Right Band Edge



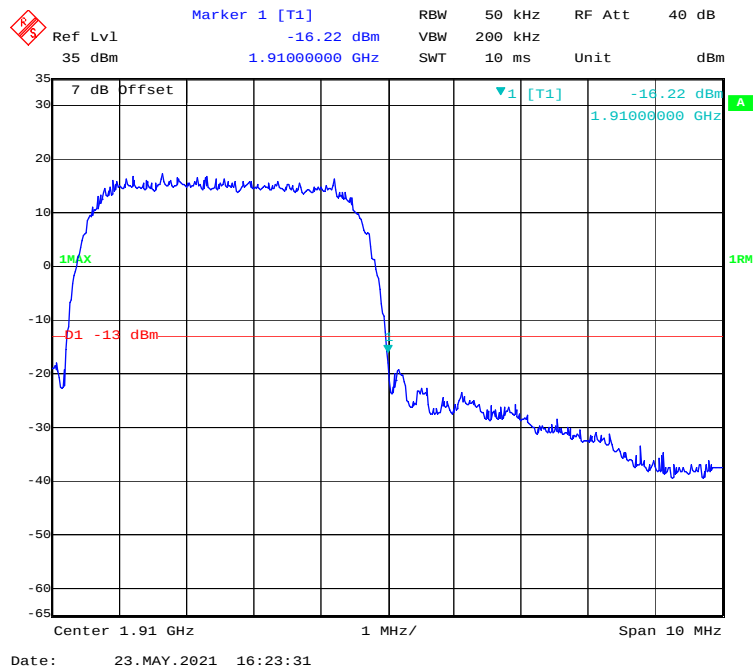
WCDMA Band II**WCDMA (Rel 99) Mode, Left Band Edge****WCDMA (Rel 99) Mode, Right Band Edge**

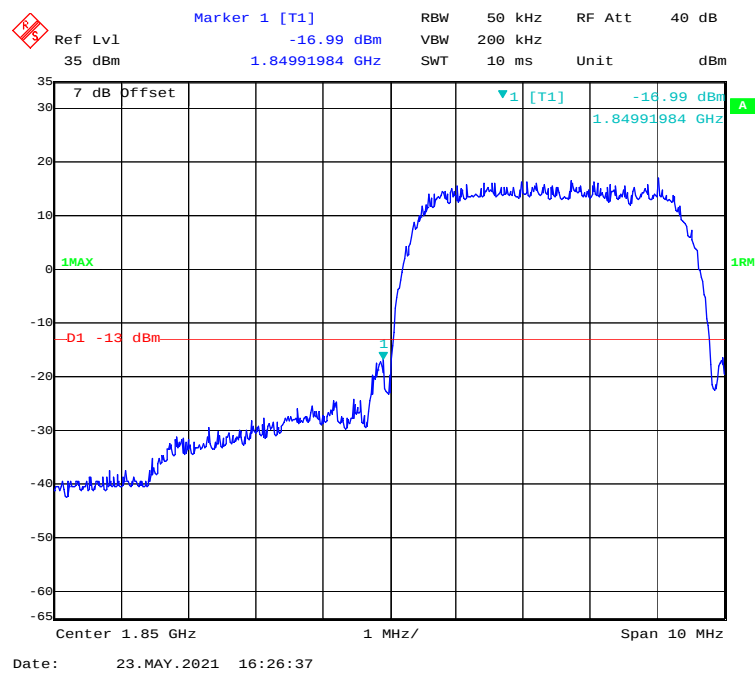
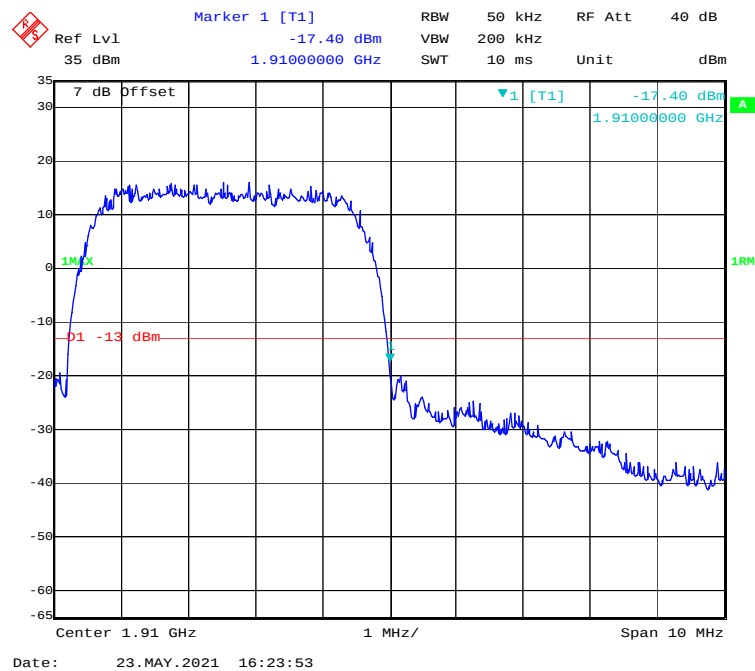
WCDMA (HSDPA) Mode, Left Band Edge**WCDMA (HSDPA) Mode, Right Band Edge**

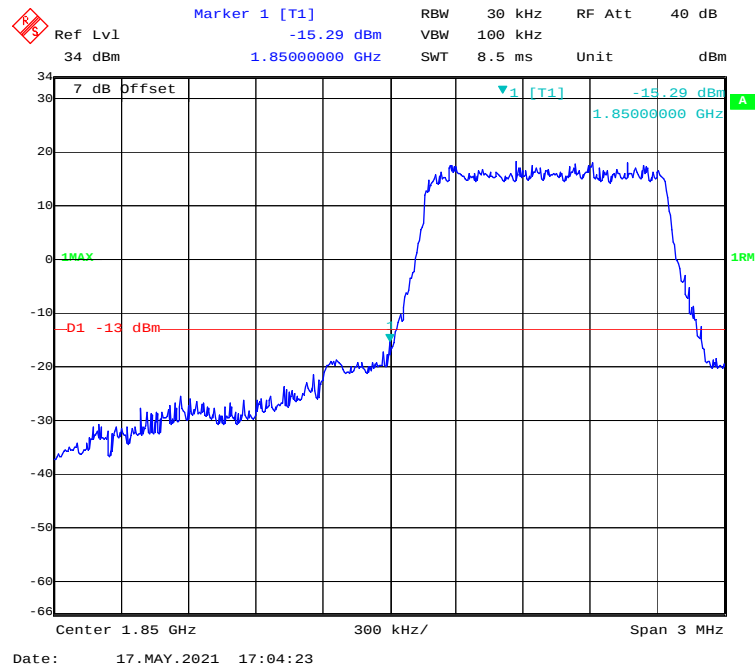
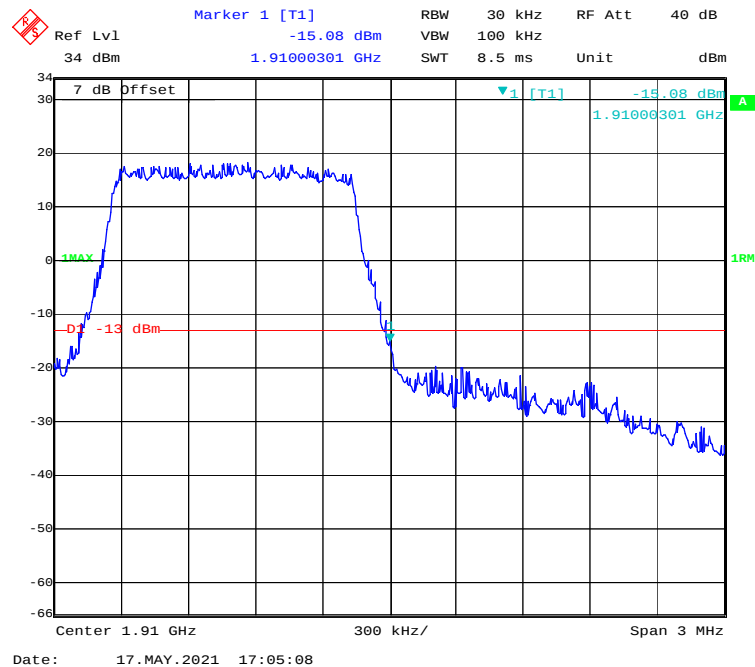
WCDMA (HSUPA) Mode, Left Band Edge



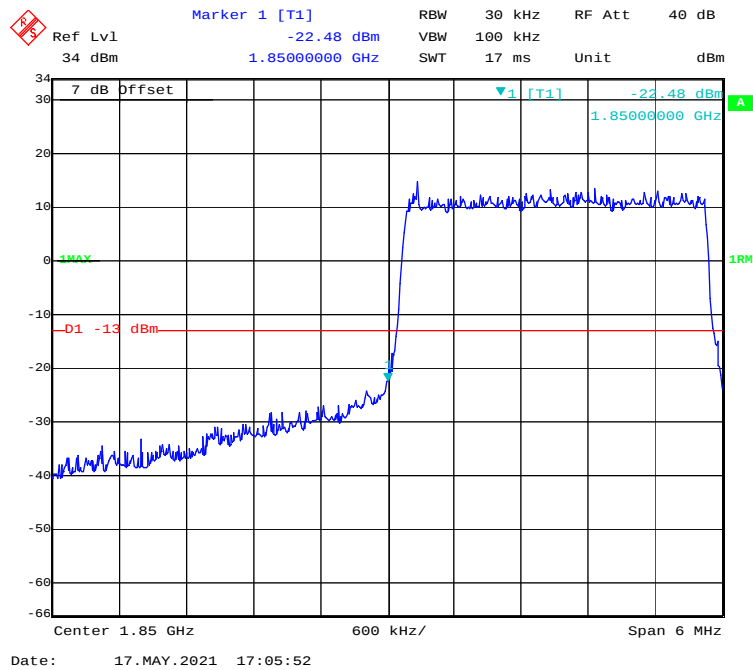
WCDMA (HSUPA) Mode, Right Band Edge



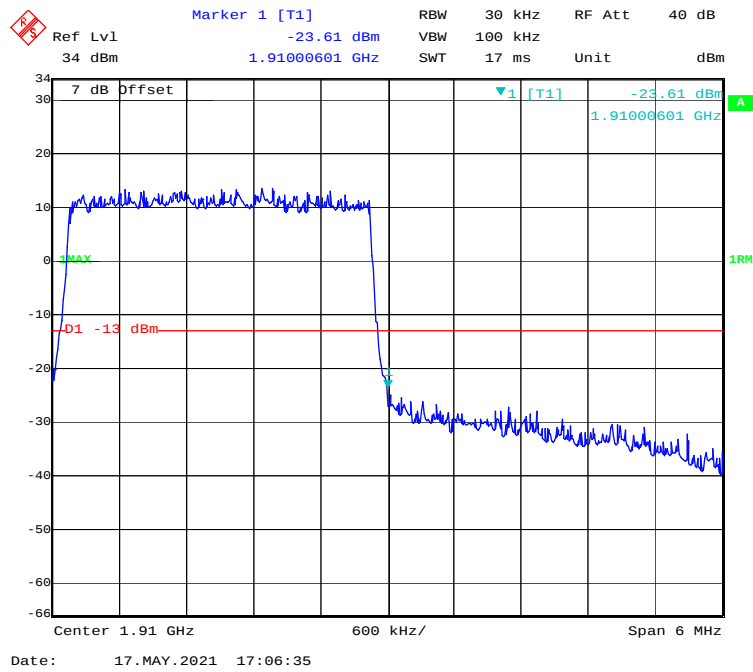
WCDMA (HSPA+) Mode, Left Band Edge**WCDMA (HSPA+) Mode, Right Band Edge**

LTE Band 2:**QPSK (1.4 MHz, FULL RB) - Left Band Edge****QPSK (1.4 MHz, FULL RB) - Right Band Edge**

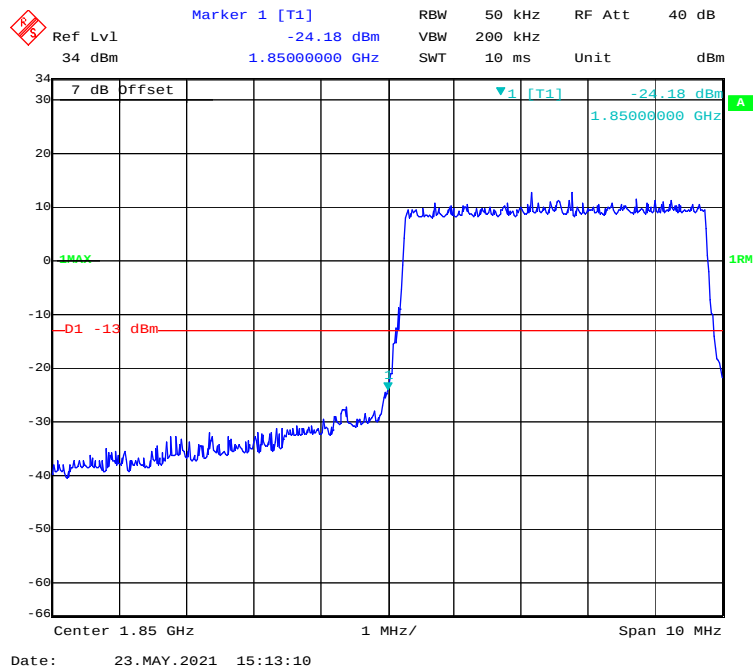
QPSK (3 MHz, FULL RB) - Left Band Edge



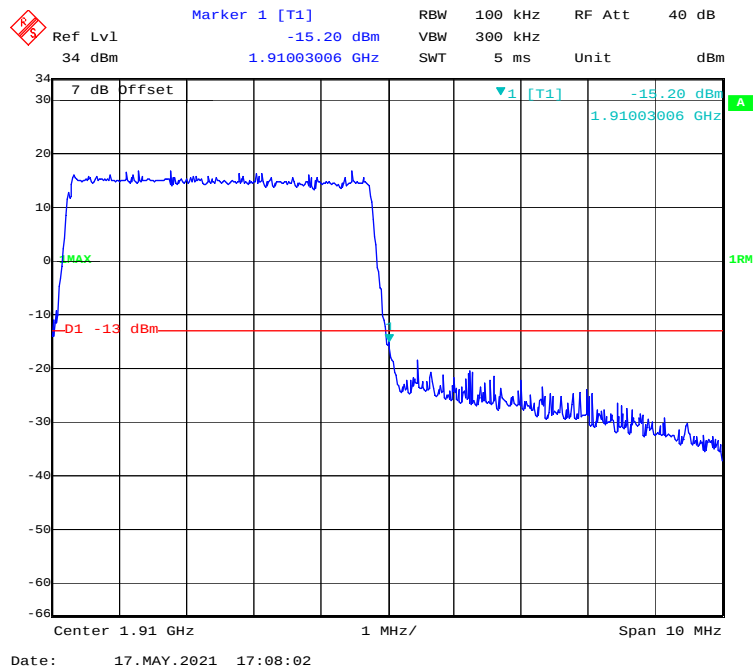
QPSK (3 MHz, FULL RB) - Right Band Edge

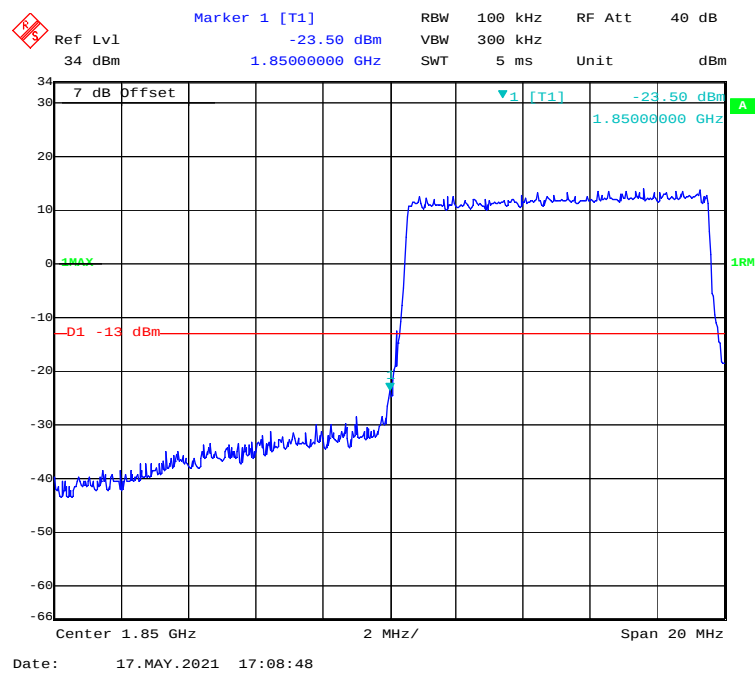
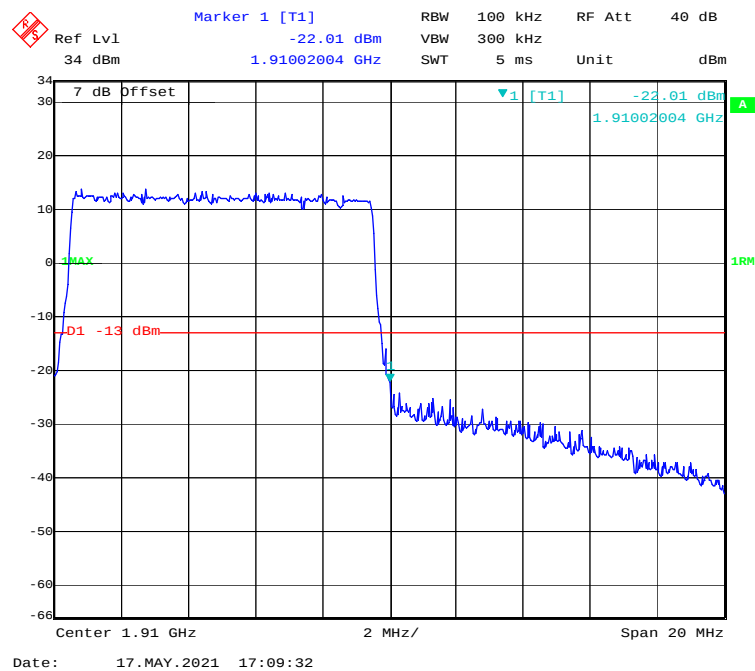


QPSK (5 MHz, FULL RB) - Left Band Edge

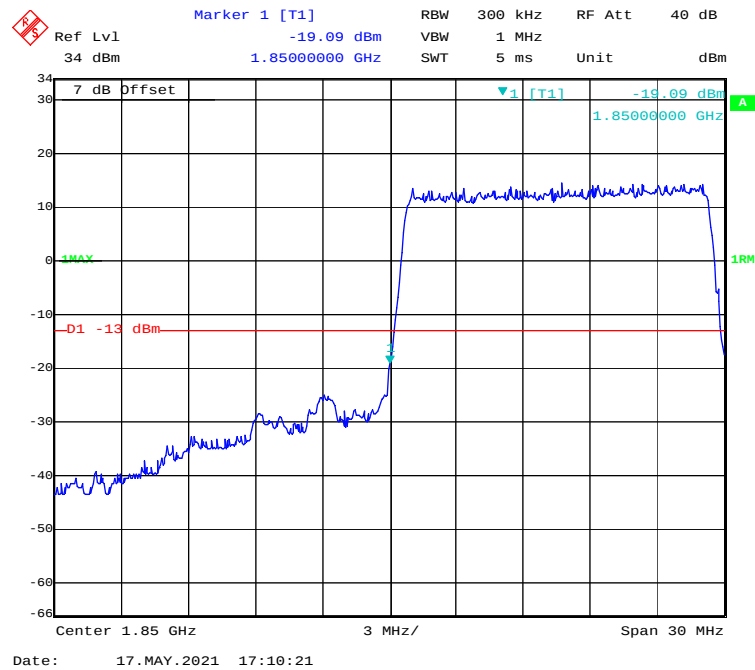


QPSK (5 MHz, FULL RB) - Right Band Edge

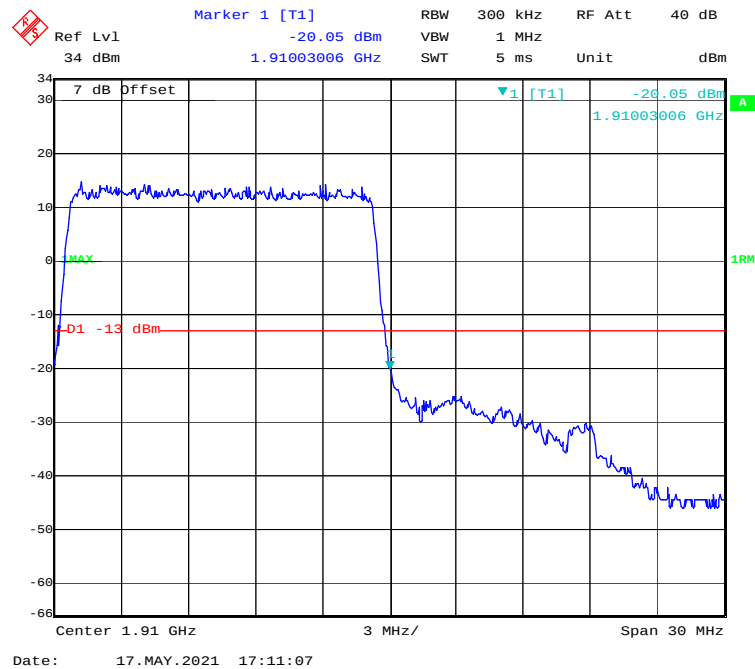


QPSK (10 MHz, FULL RB) - Left Band Edge**QPSK (10 MHz, FULL RB) - Right Band Edge**

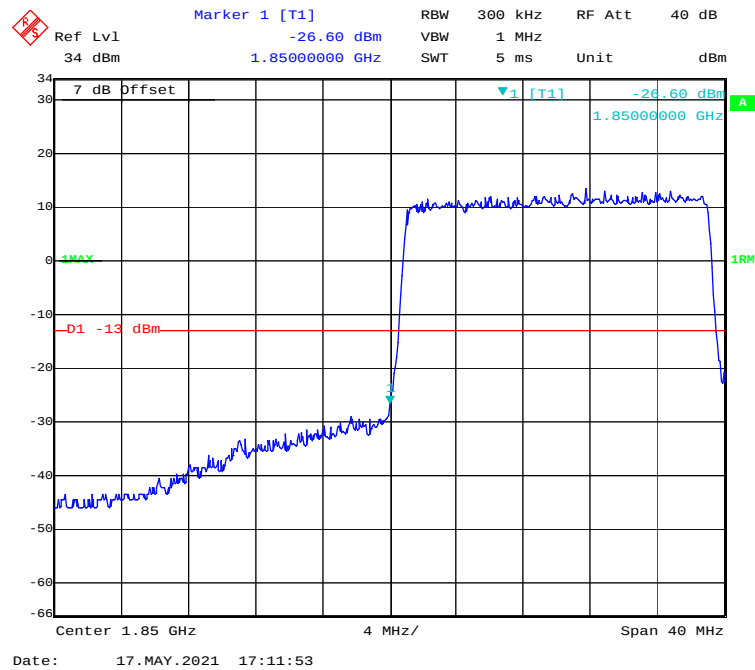
QPSK (15 MHz, FULL RB) - Left Band Edge



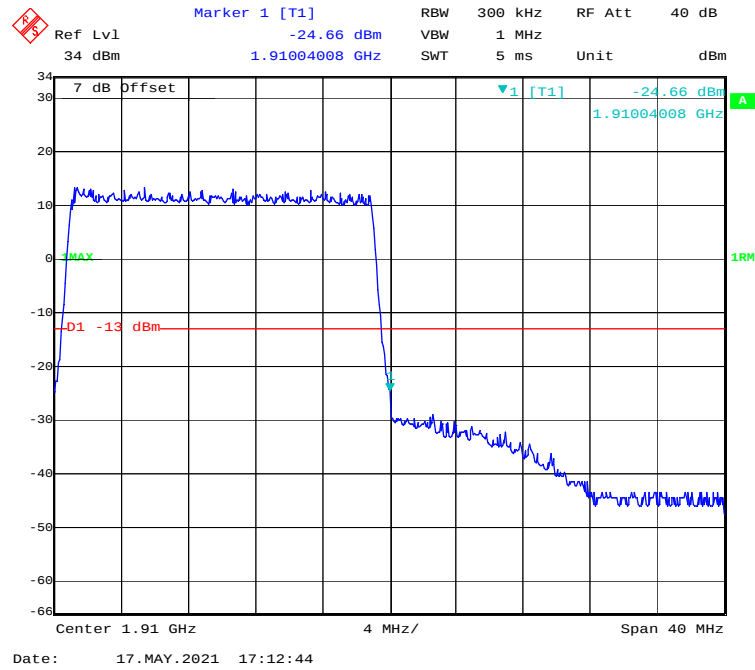
QPSK (15 MHz, FULL RB) - Right Band Edge



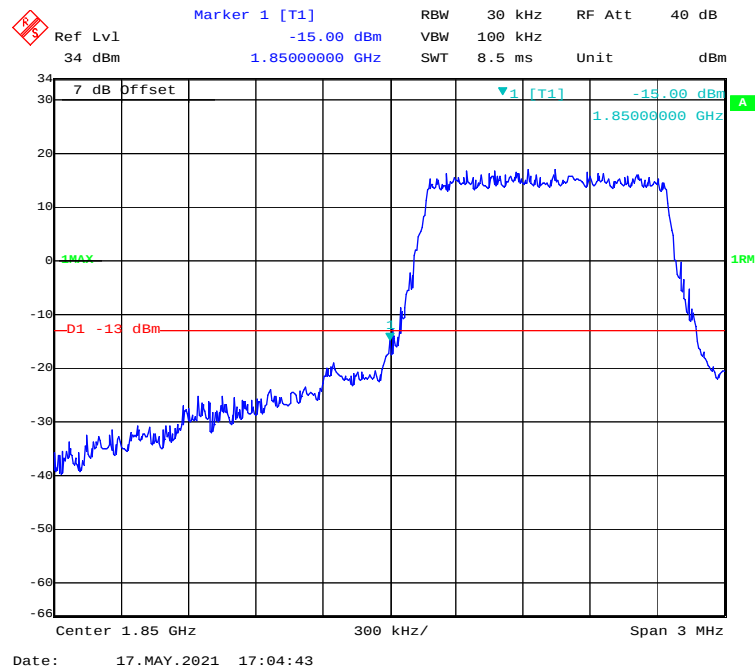
QPSK (20 MHz, FULL RB) - Left Band Edge



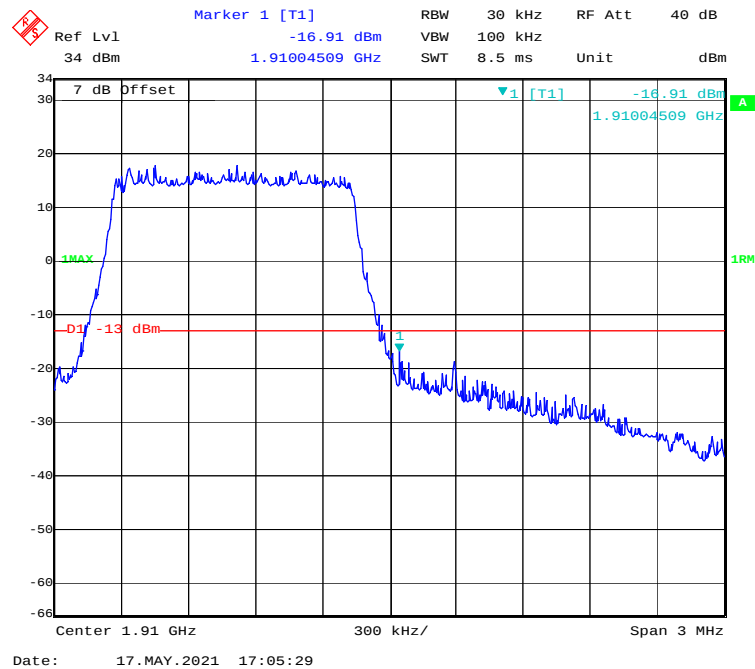
QPSK (20 MHz, FULL RB) - Right Band Edge



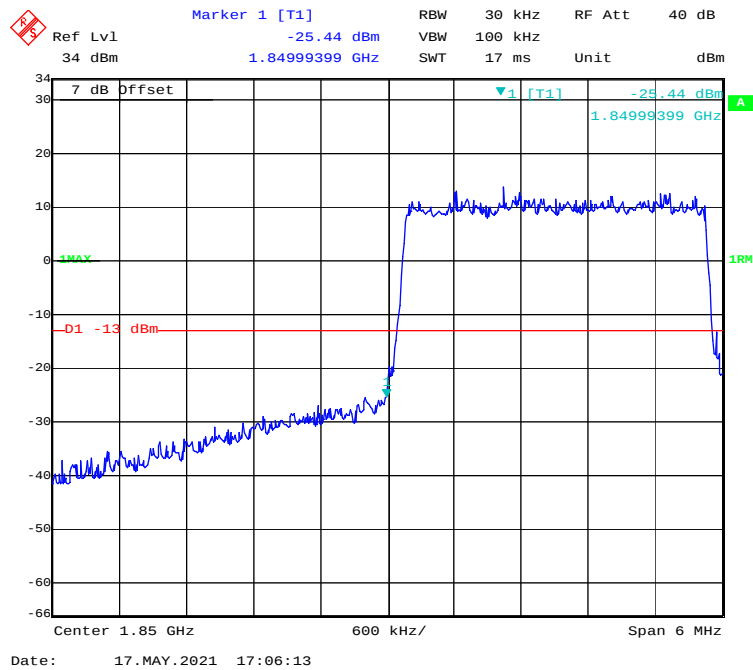
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



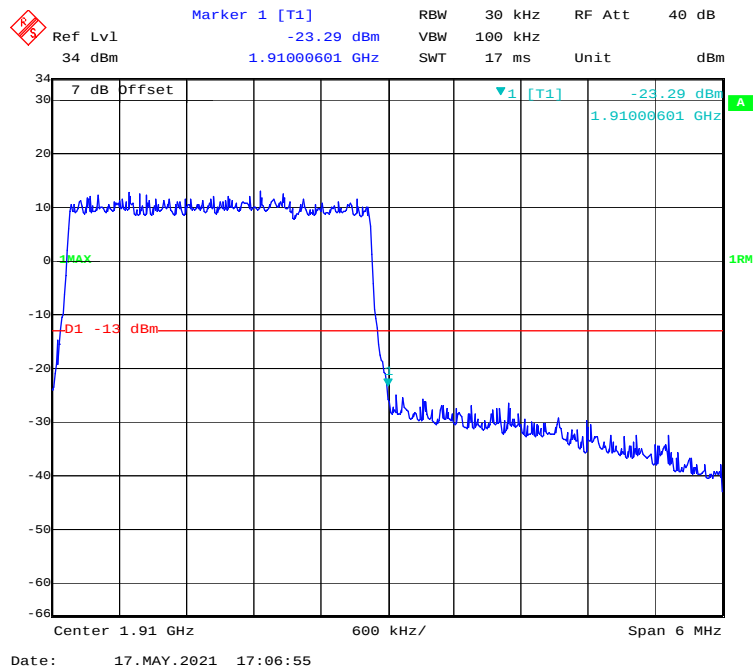
16-QAM (1.4 MHz, FULL RB) - Right Band Edge



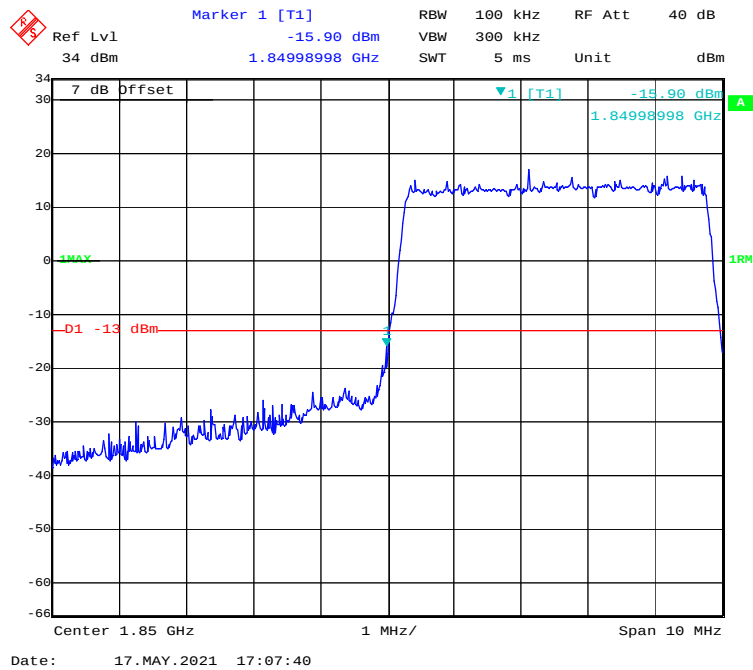
16-QAM (3 MHz, FULL RB) - Left Band Edge



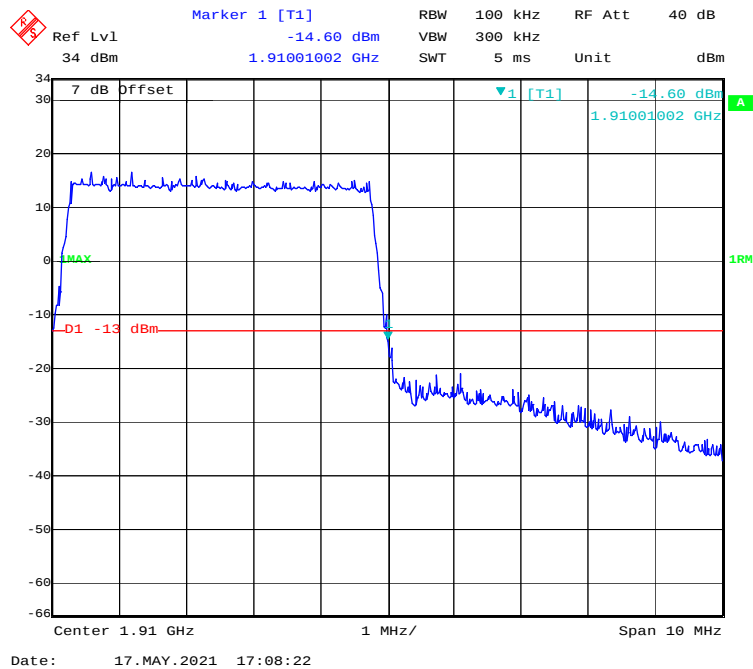
16-QAM (3 MHz, FULL RB) - Right Band Edge



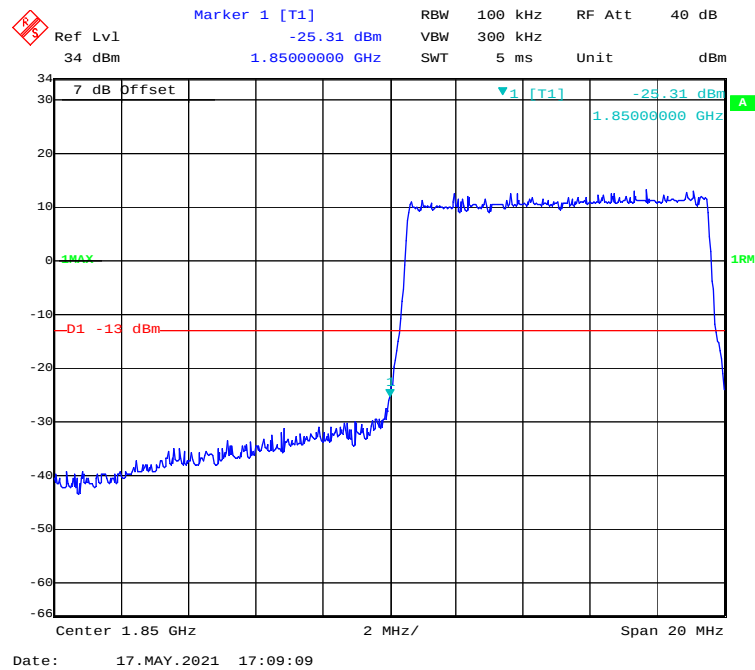
16-QAM (5 MHz, FULL RB) - Left Band Edge



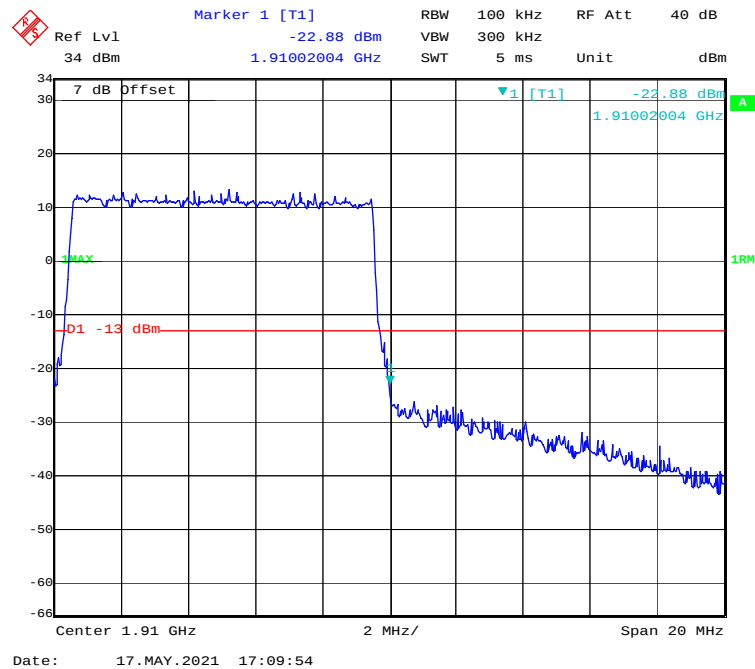
16-QAM (5 MHz, FULL RB) - Right Band Edge



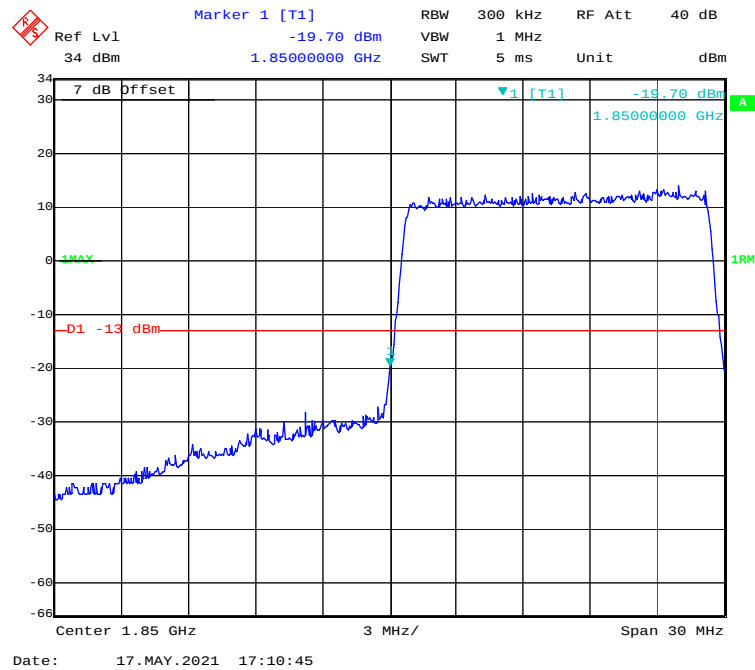
16-QAM (10 MHz, FULL RB) - Left Band Edge



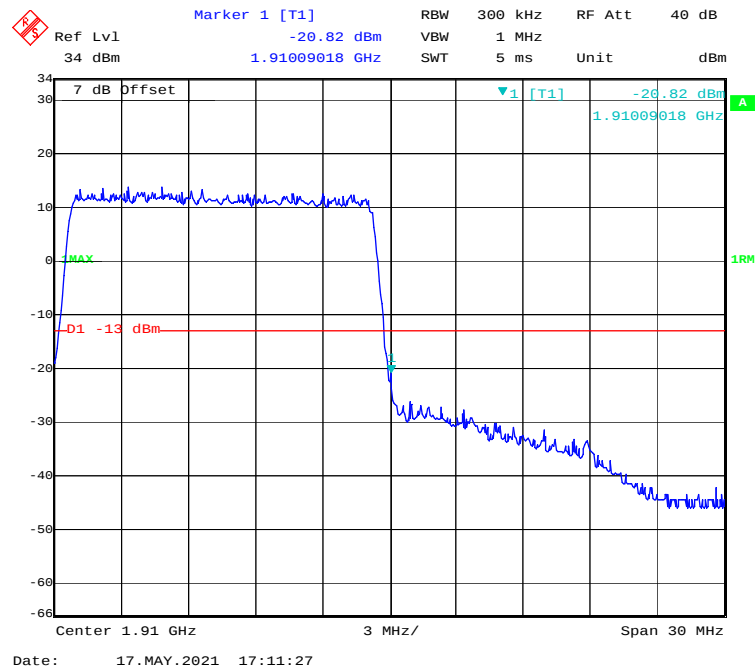
16-QAM (10 MHz, FULL RB) - Right Band Edge



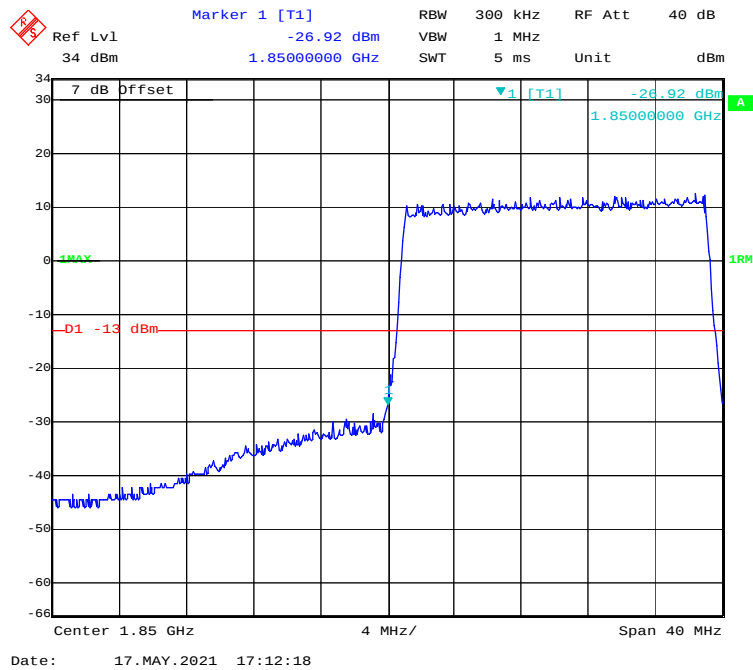
16-QAM (15 MHz, FULL RB) - Left Band Edge



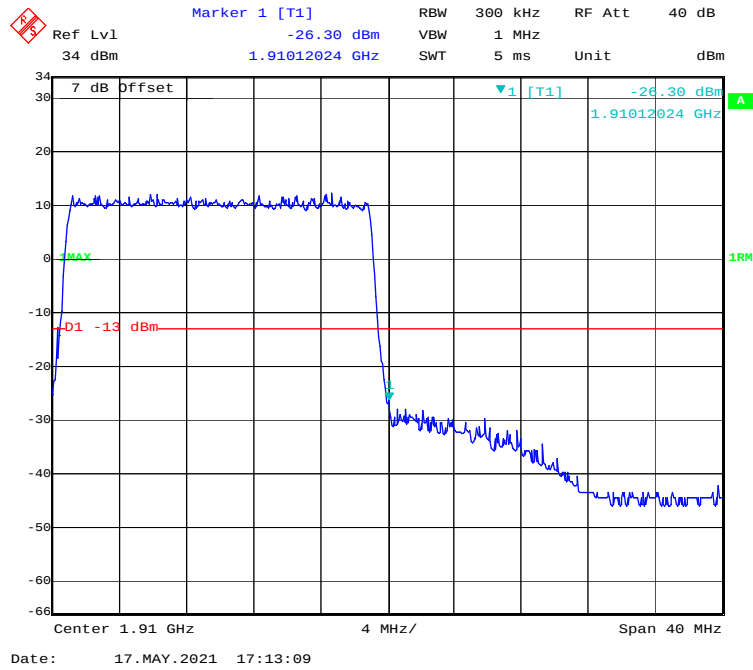
16-QAM (15 MHz, FULL RB) - Right Band Edge



16-QAM (20 MHz, FULL RB) - Left Band Edge

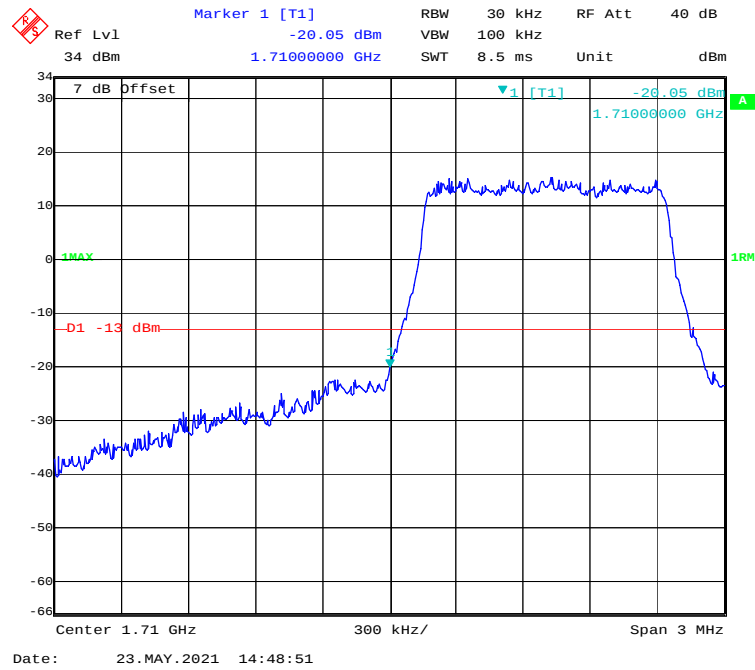


16-QAM (20 MHz, FULL RB) - Right Band Edge

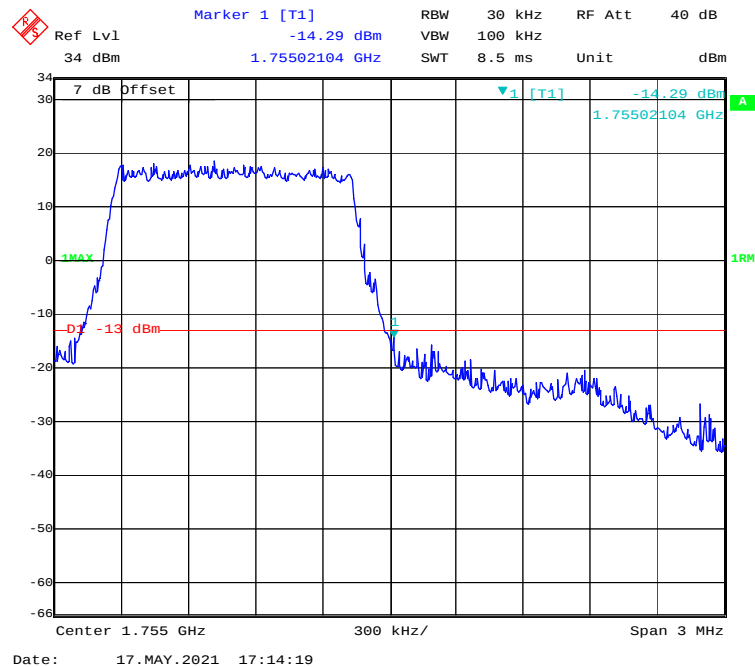


LTE Band 4:

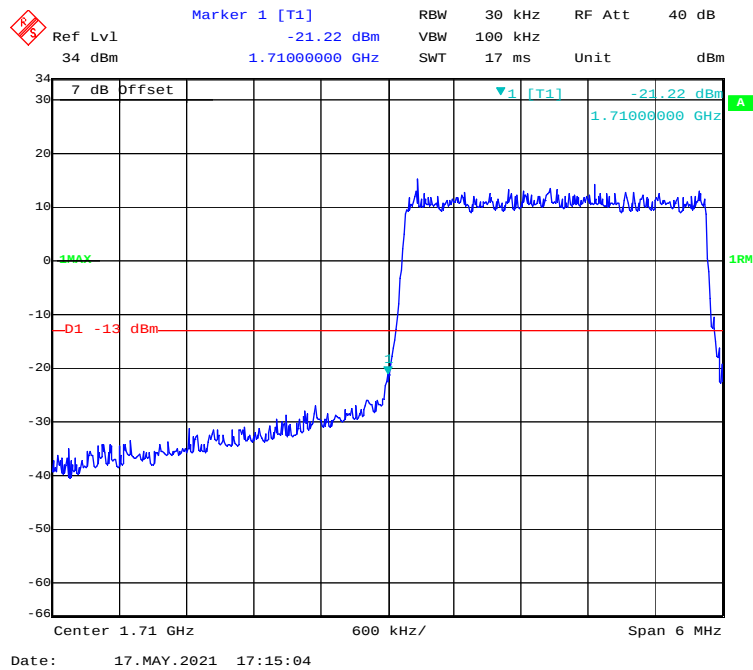
QPSK (1.4 MHz, FULL RB) - Left Band Edge



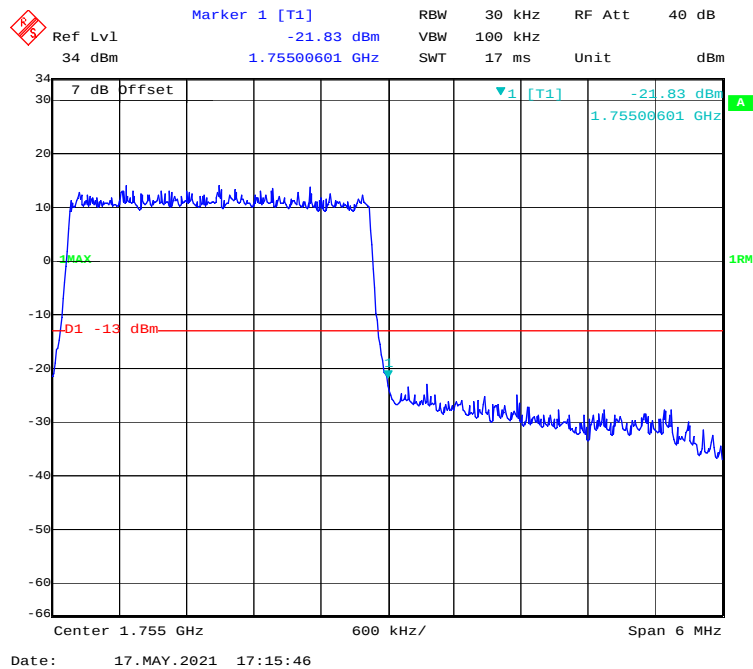
QPSK (1.4 MHz, FULL RB) - Right Band Edge

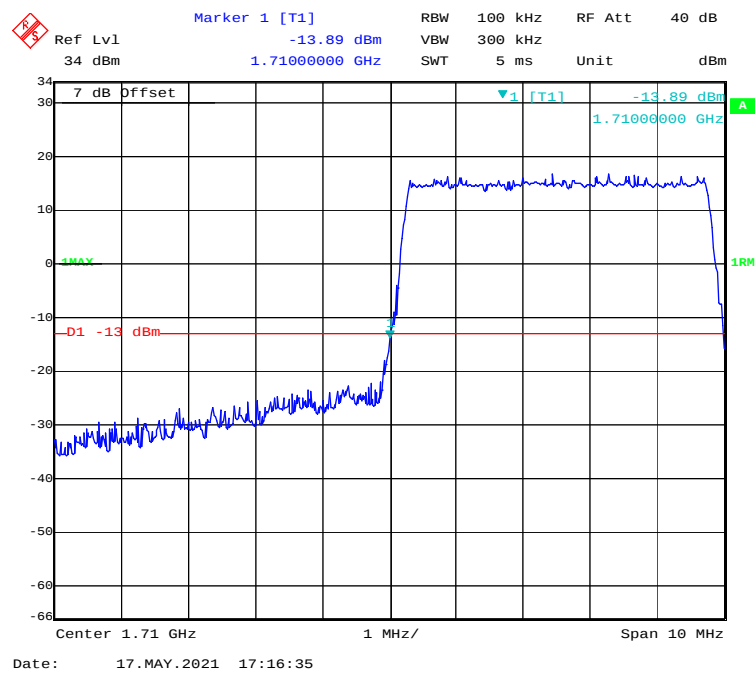
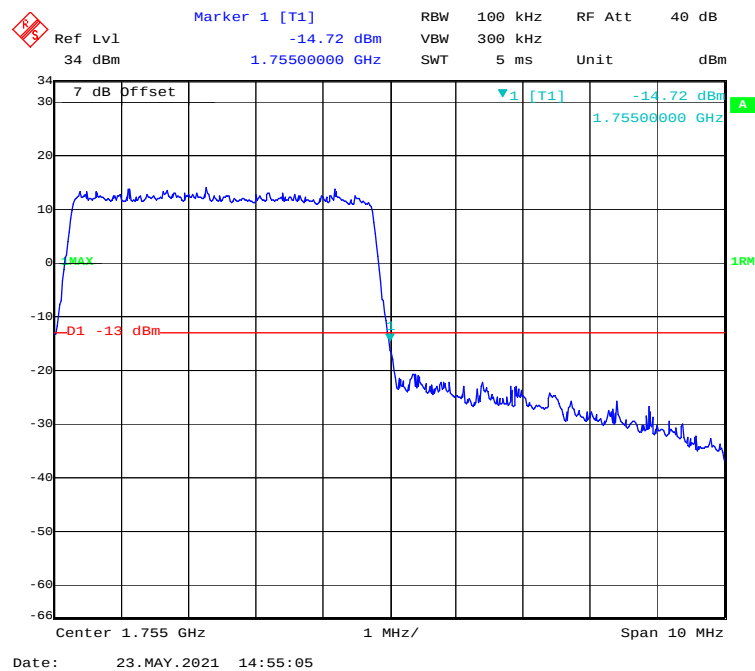


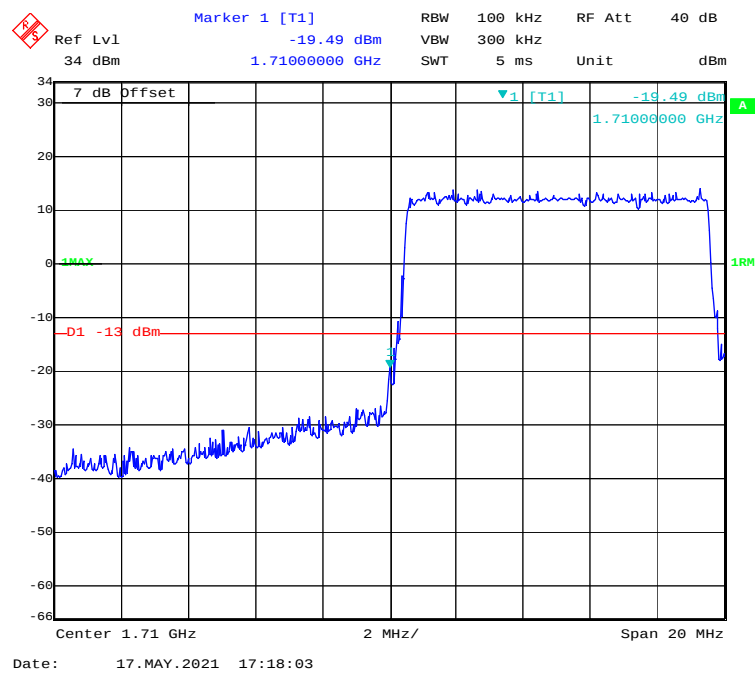
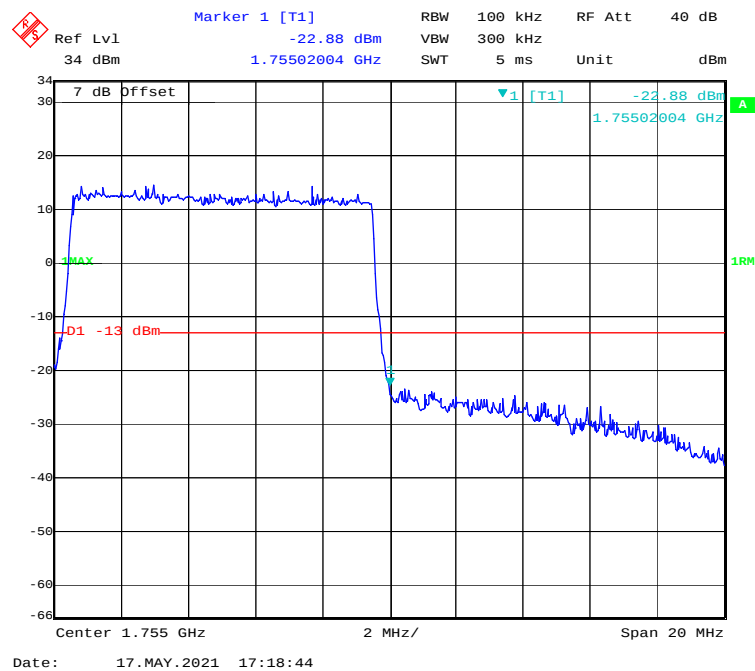
QPSK (3 MHz, FULL RB) - Left Band Edge



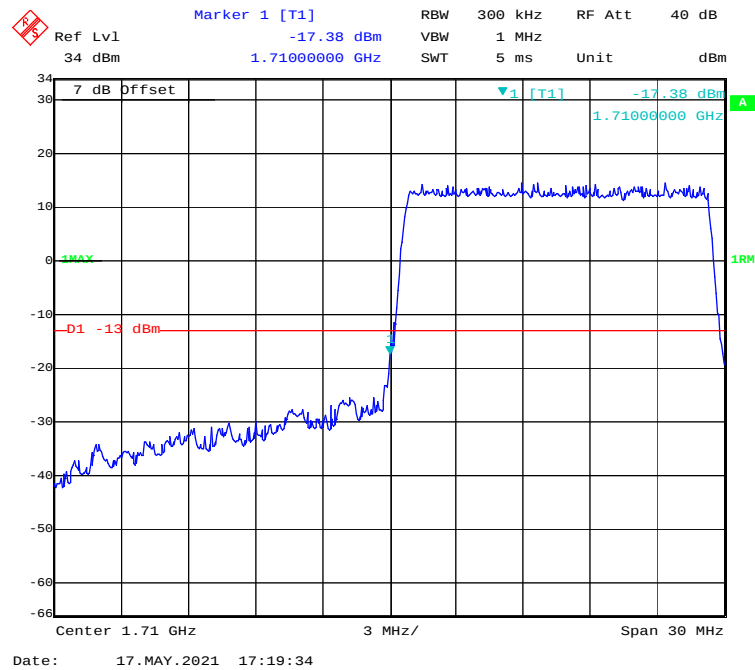
QPSK (3 MHz, FULL RB) - Right Band Edge



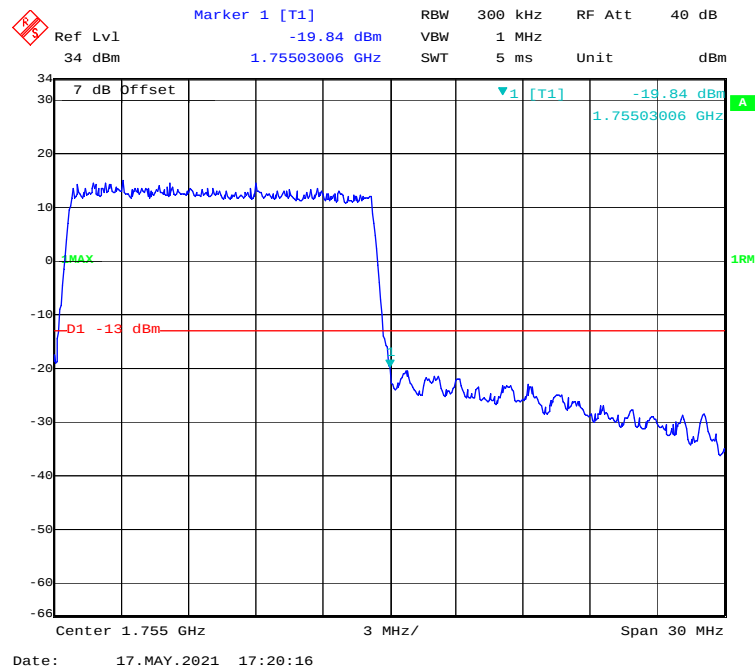
QPSK (5 MHz, FULL RB) - Left Band Edge**QPSK (5 MHz, FULL RB) - Right Band Edge**

QPSK (10 MHz, FULL RB) - Left Band Edge**QPSK (10 MHz, FULL RB) - Right Band Edge**

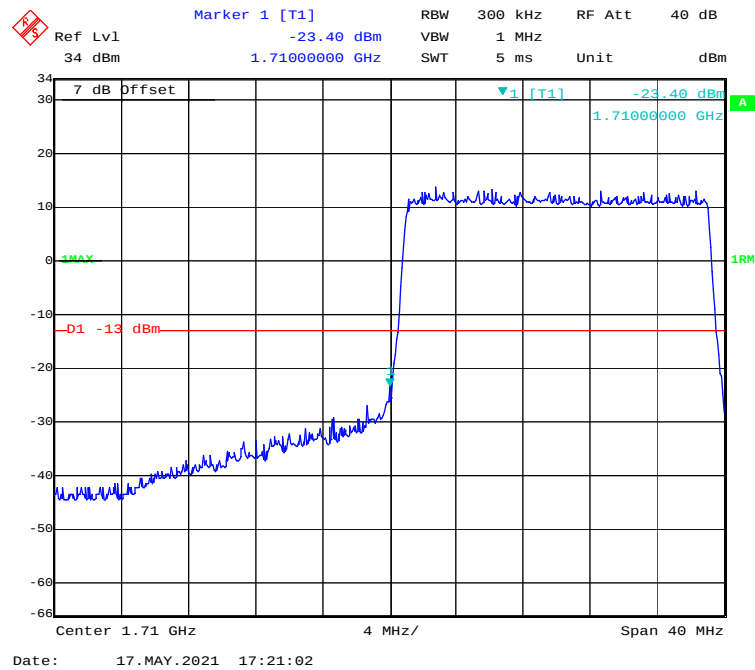
QPSK (15 MHz, FULL RB) - Left Band Edge



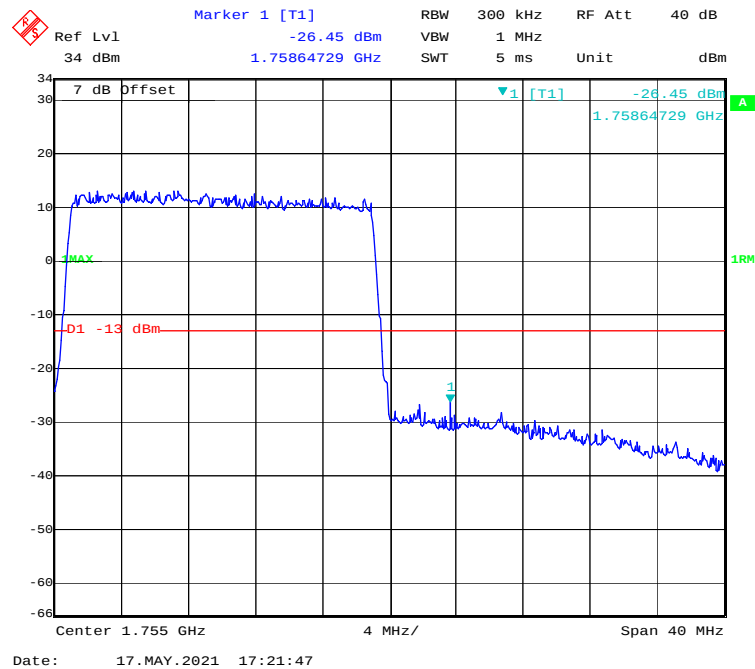
QPSK (15 MHz, FULL RB) - Right Band Edge



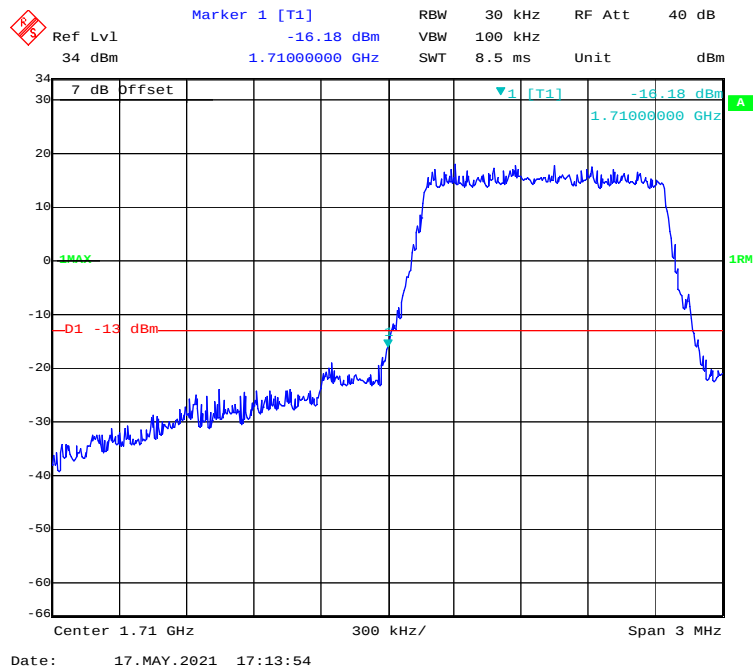
QPSK (20 MHz, FULL RB) - Left Band Edge



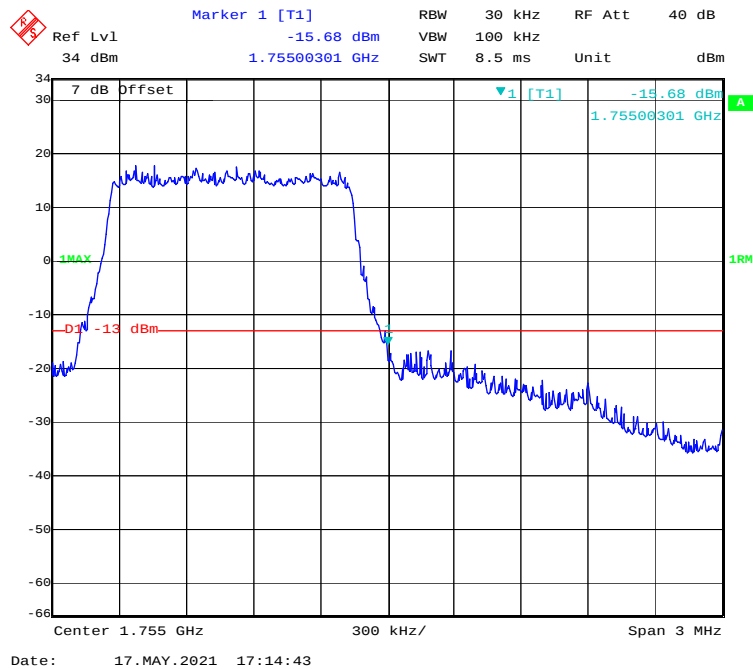
QPSK (20 MHz, FULL RB) - Right Band Edge

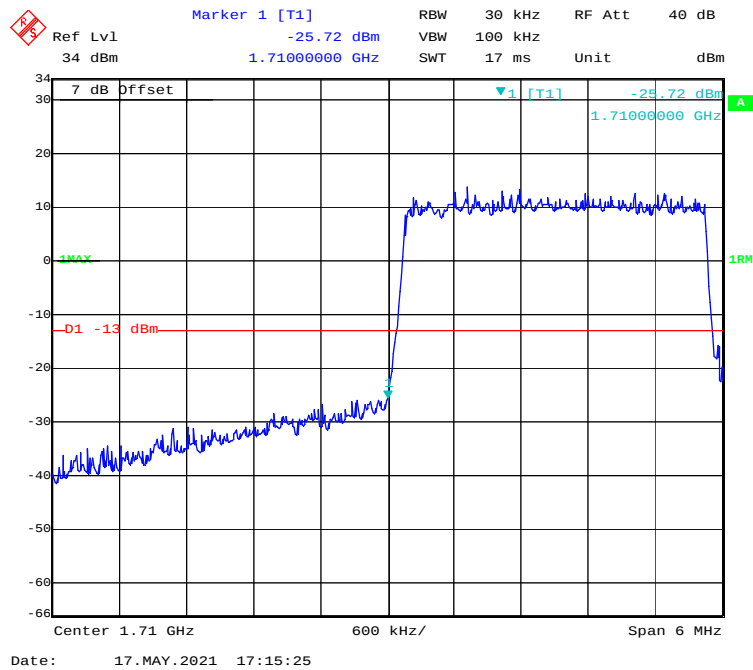
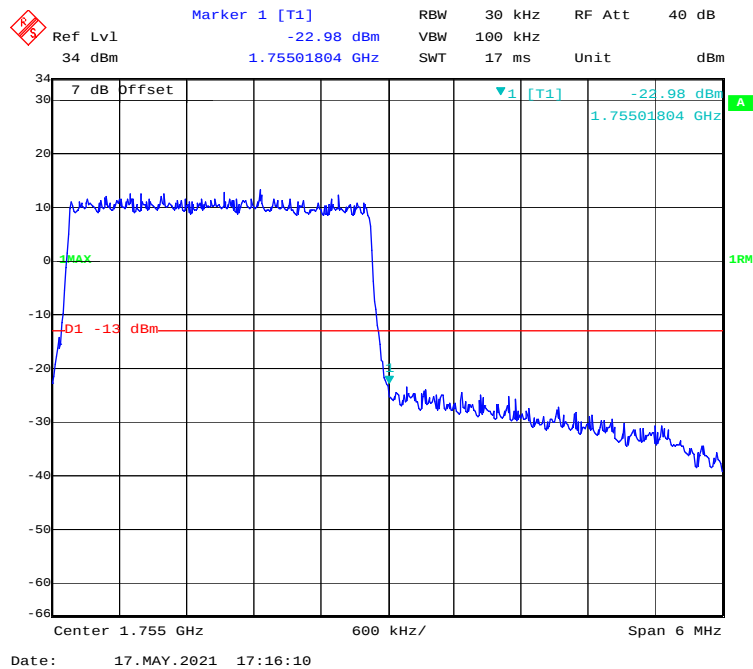


16-QAM (1.4 MHz, FULL RB) - Left Band Edge

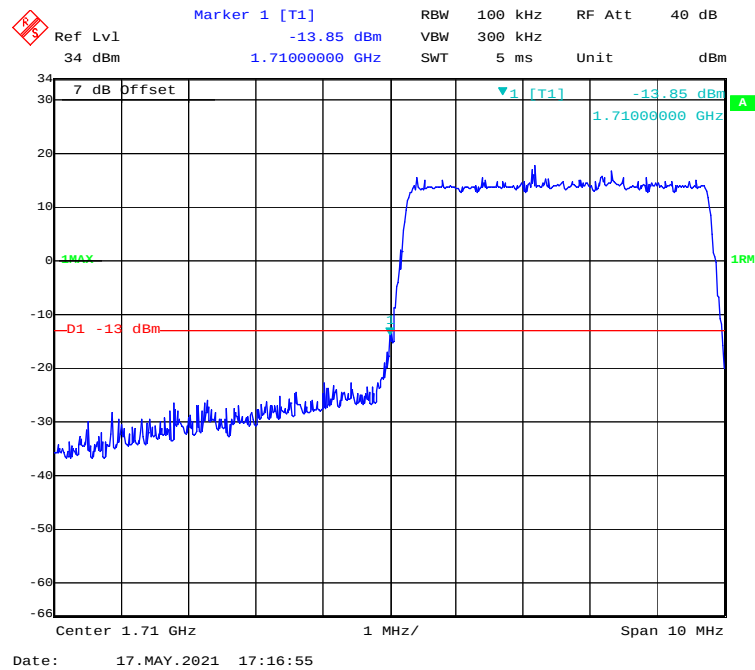


16-QAM (1.4 MHz, FULL RB) - Right Band Edge

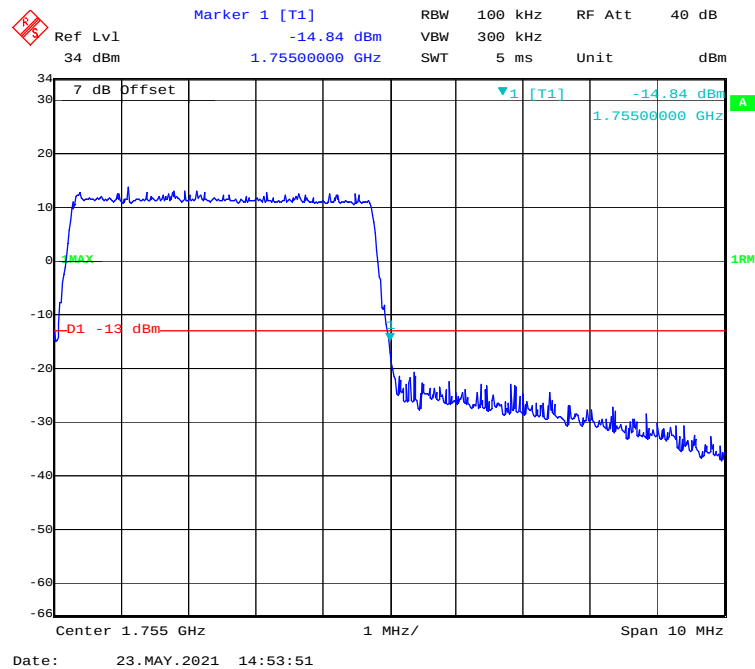


16-QAM (3 MHz, FULL RB) - Left Band Edge**16-QAM (3 MHz, FULL RB) - Right Band Edge**

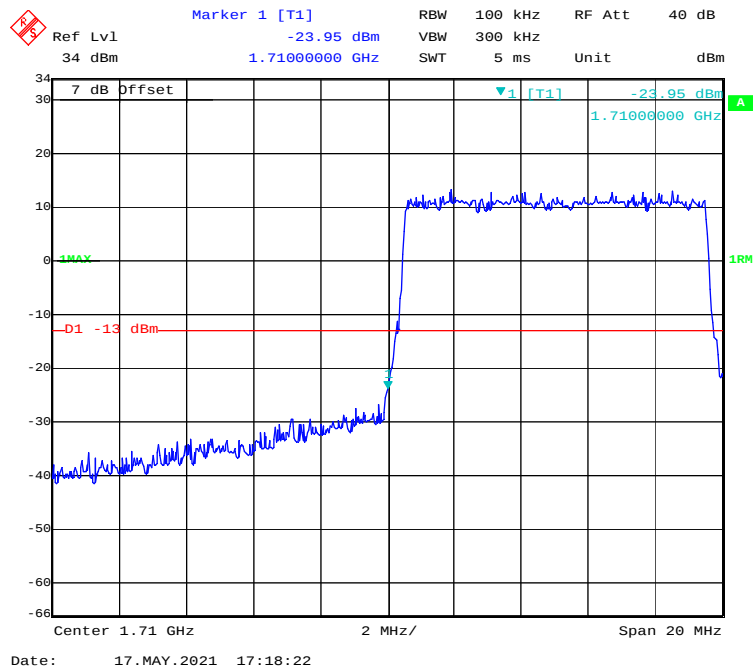
16-QAM (5 MHz, FULL RB) - Left Band Edge



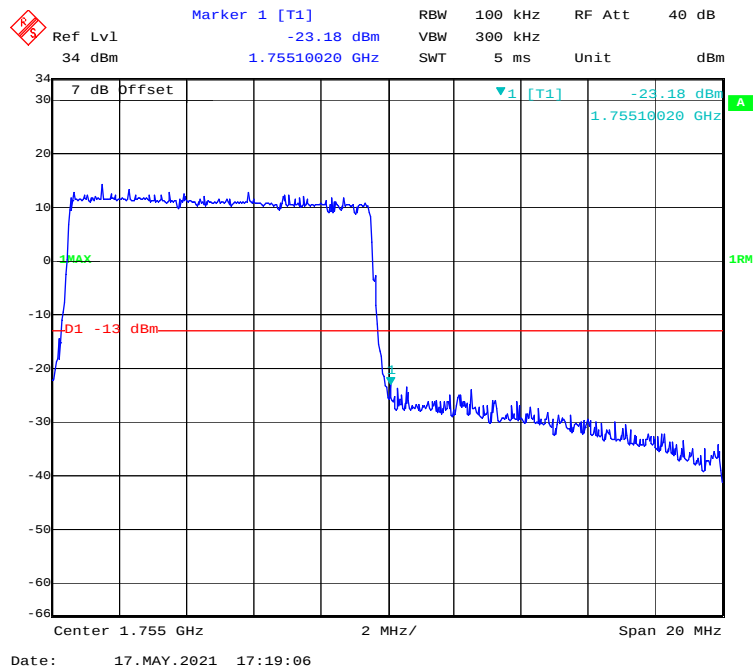
16-QAM (5 MHz, FULL RB) - Right Band Edge



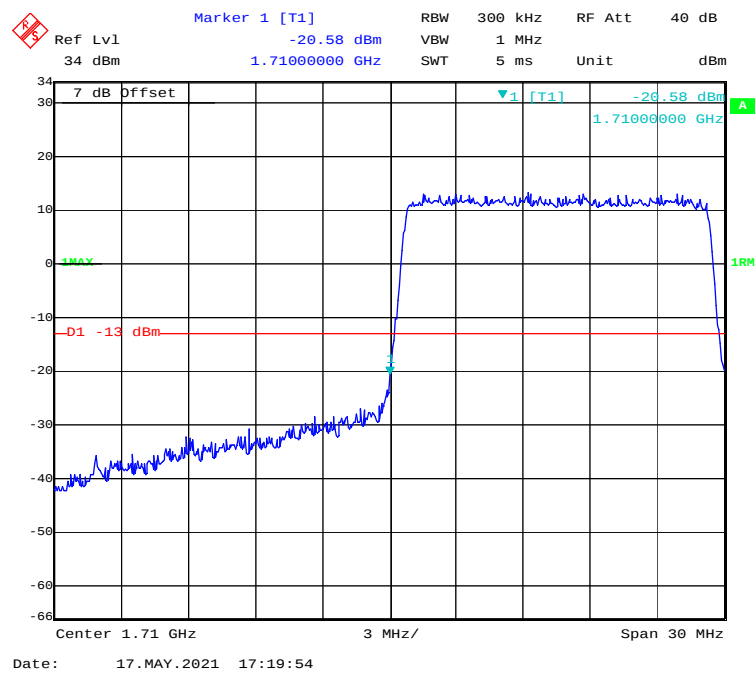
16-QAM (10 MHz, FULL RB) - Left Band Edge



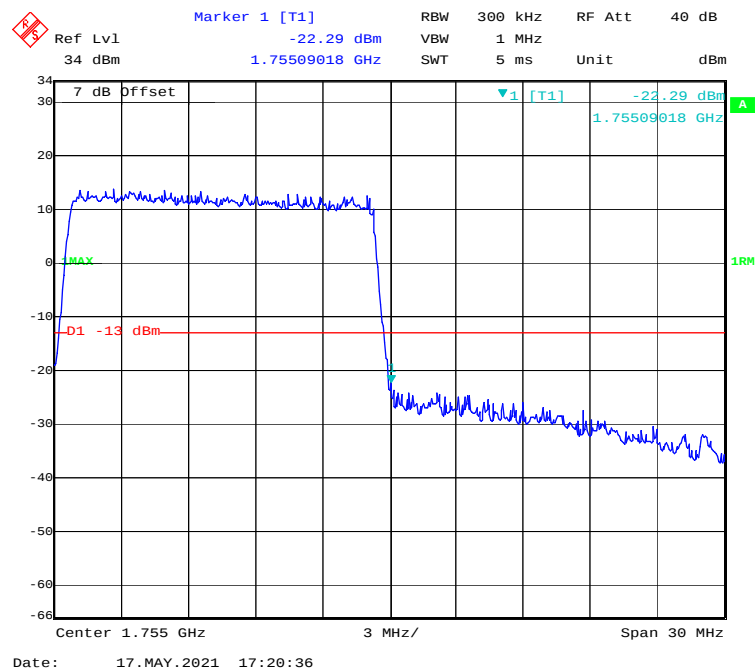
16-QAM (10 MHz, FULL RB) - Right Band Edge



16-QAM (15 MHz, FULL RB) - Left Band Edge



16-QAM (15 MHz, FULL RB) - Right Band Edge



Marker 1 [T1] RBW 300 kHz RF Att 40 dB
 Ref Lvl -24.66 dBm VBW 1 MHz
 34 dBm SWT 5 ms Unit dBm
 1.71000000 GHz

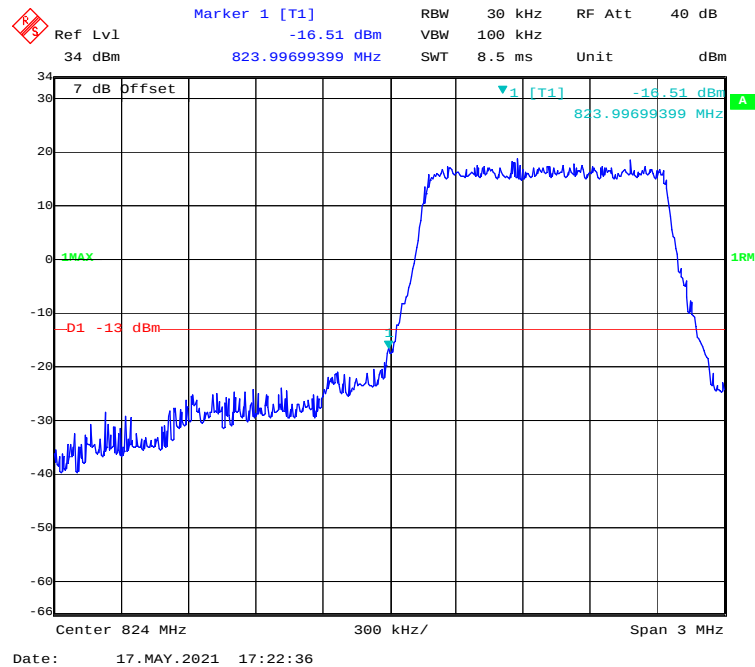
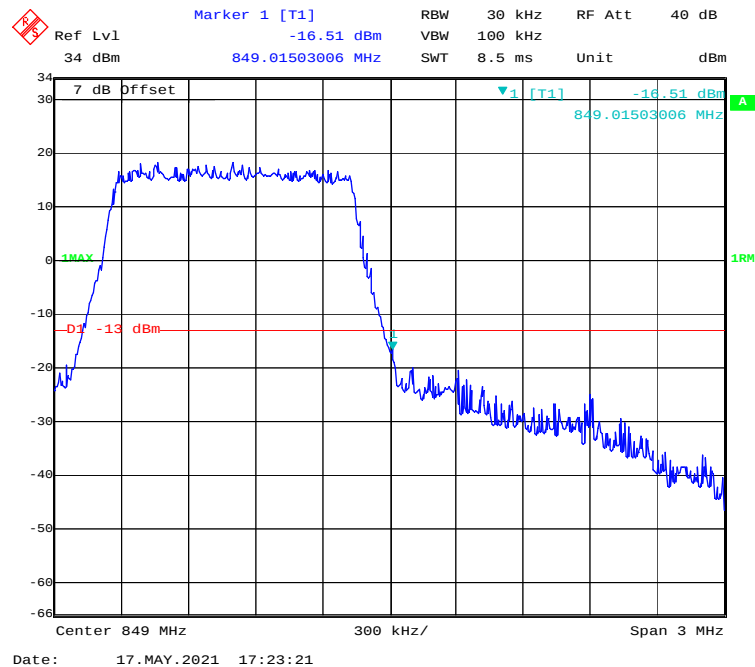
7 dB Offset ▼1 [T1] -24.66 dBm
 1.71000000 GHz A
 4 MAX 1RM
 -D1 -13 dBm
 Center 1.71 GHz 4 MHz/ Span 40 MHz
 Date: 17.MAY.2021 17:21:24

Ref Lvl 34 dBm
 Marker 1 [T1] -27.08 dBm
 1.75888778 GHz
 RBW 300 kHz
 VBW 1 MHz
 SWT 5 ms
 RF Att 40 dB
 Unit dBm

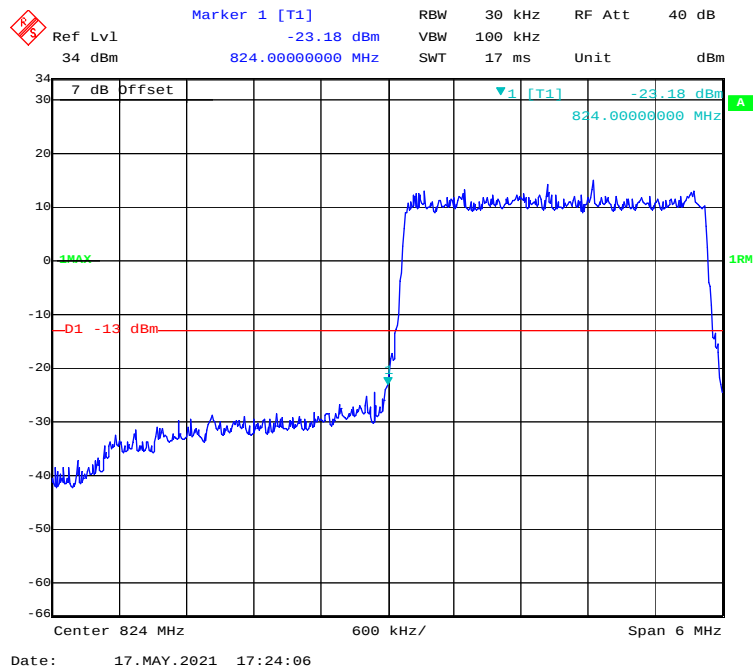
7 dB Offset
 -13 dBm
 -27.08 dBm
 1.75888778 GHz

Center 1.75 GHz
 4 MHz/
 Span 40 MHz

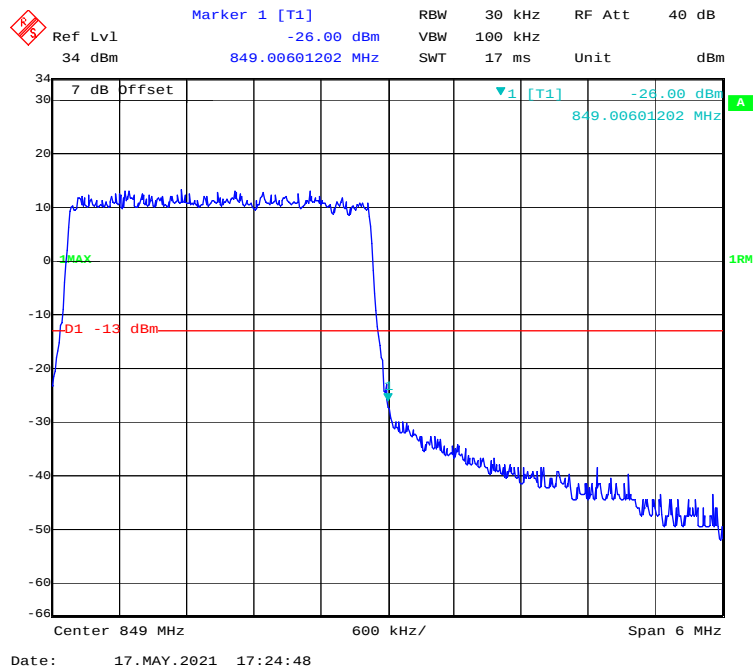
Date: 17.MAY.2021 17:22:08

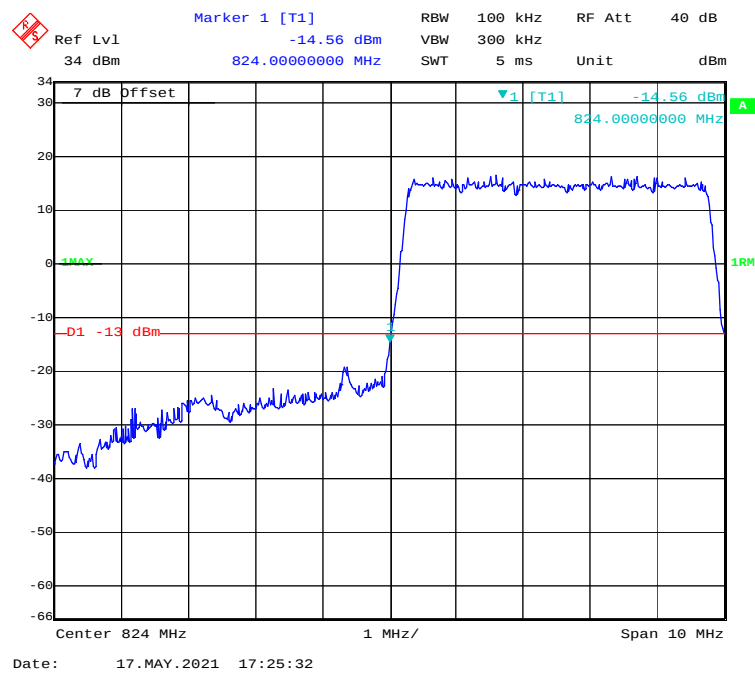
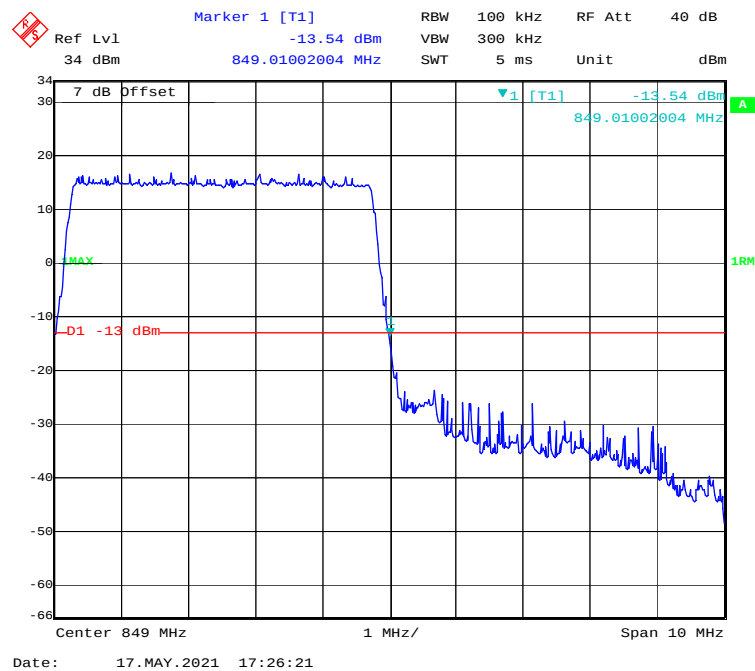
LTE Band 5:**QPSK (1.4 MHz, FULL RB) - Left Band Edge****QPSK (1.4 MHz, FULL RB) - Right Band Edge**

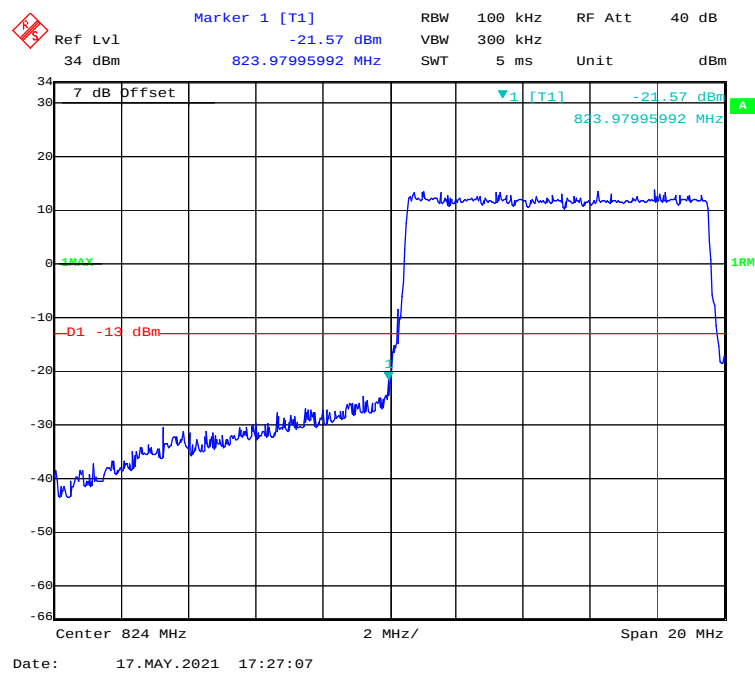
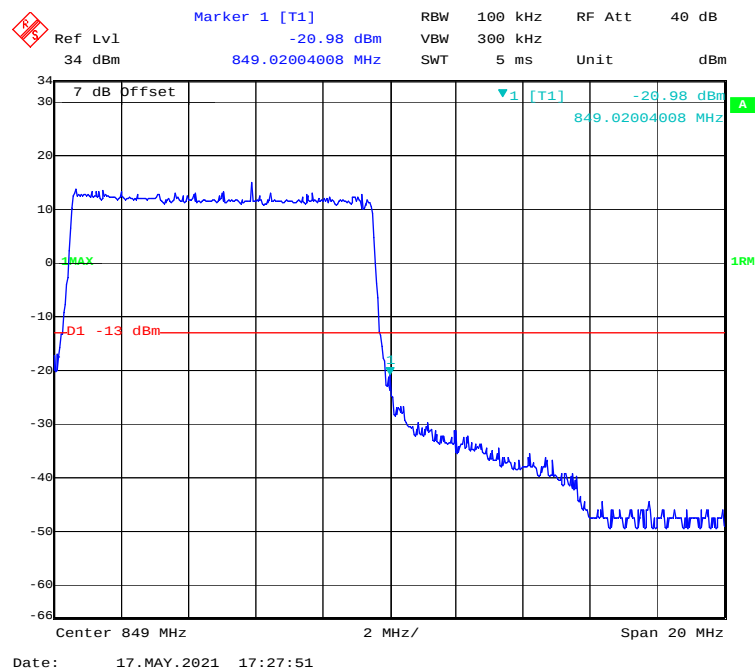
QPSK (3.0 MHz, FULL RB) - Left Band Edge



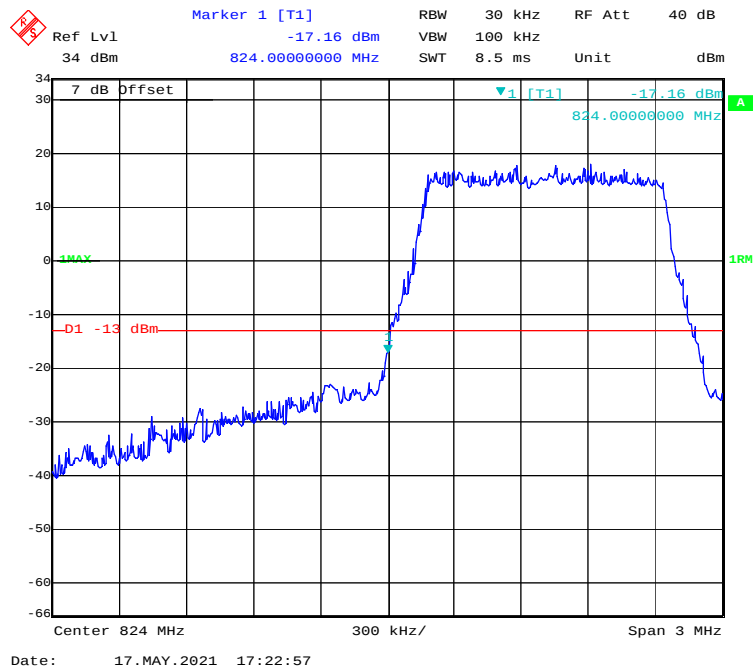
QPSK (3.0 MHz, FULL RB) - Right Band Edge



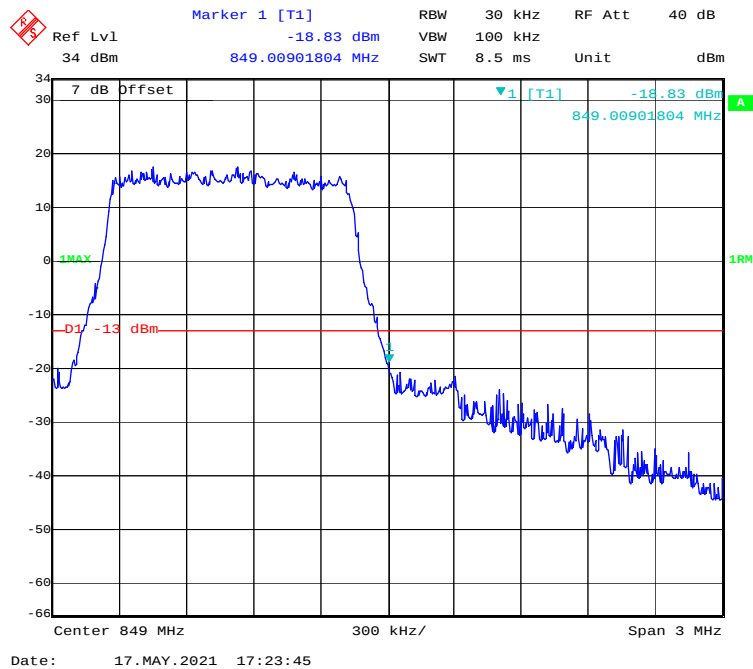
QPSK (5.0 MHz, FULL RB) - Left Band Edge**QPSK (5.0 MHz, FULL RB) - Right Band Edge**

QPSK (10.0 MHz, FULL RB) - Left Band Edge**QPSK (10.0 MHz, FULL RB) - Right Band Edge**

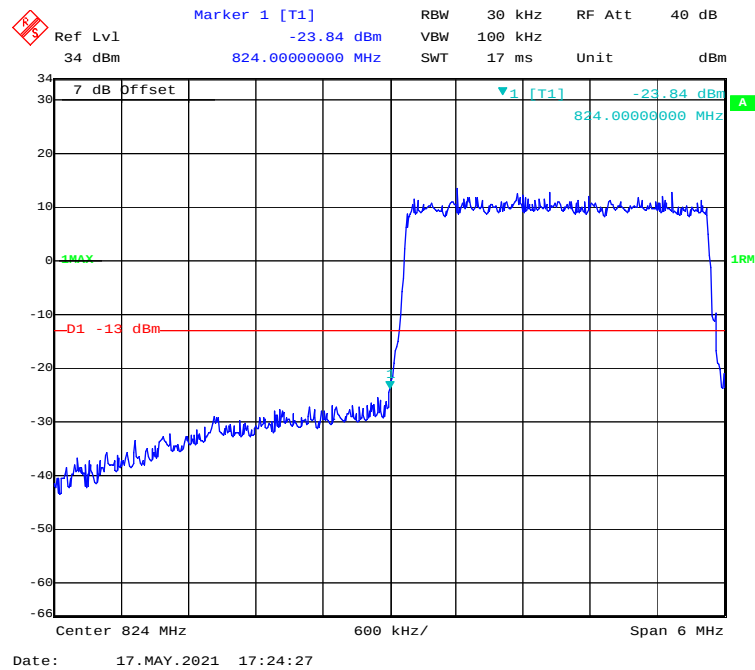
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



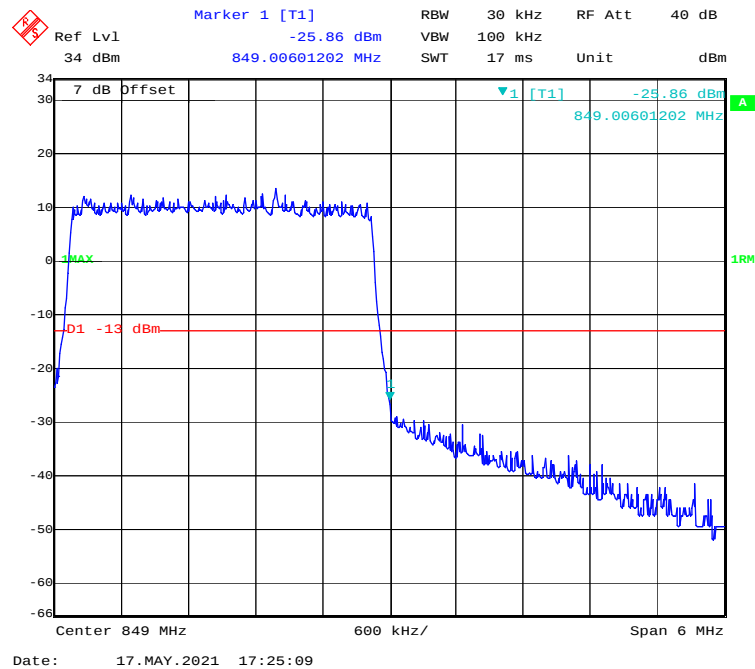
16-QAM (1.4 MHz, FULL RB) - Right Band Edge

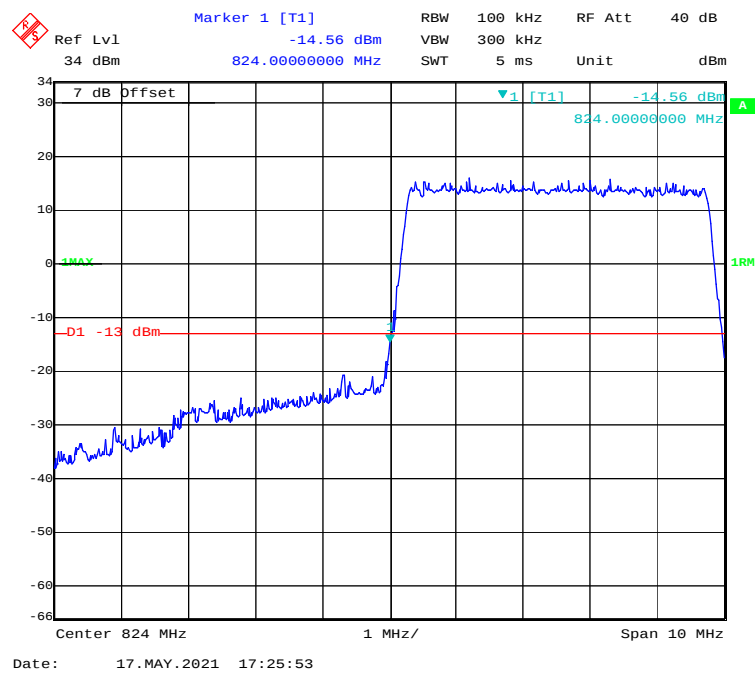
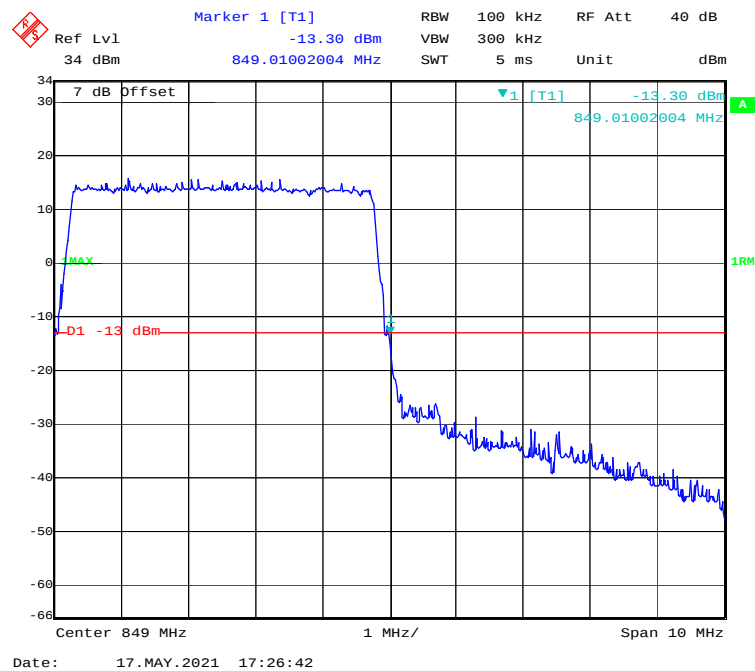


16-QAM (3.0 MHz, FULL RB) - Left Band Edge

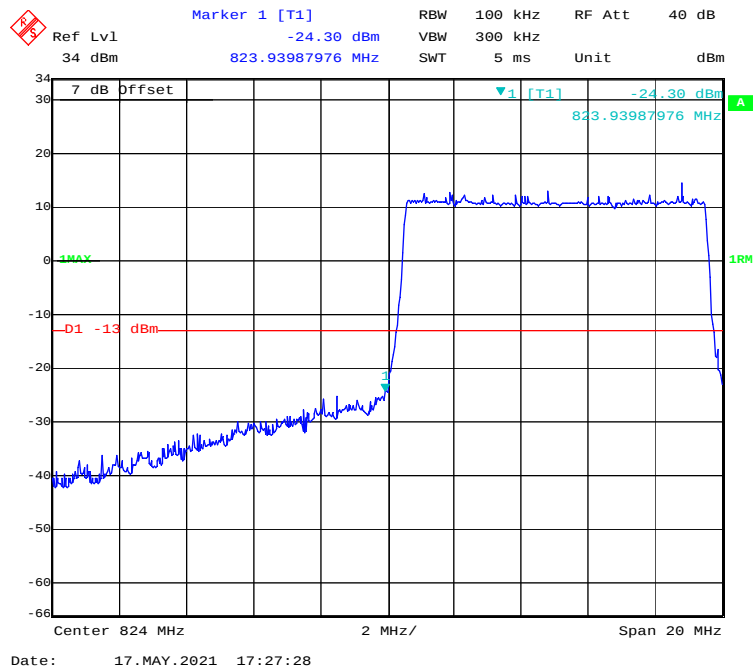


16-QAM (3.0 MHz, FULL RB) - Right Band Edge

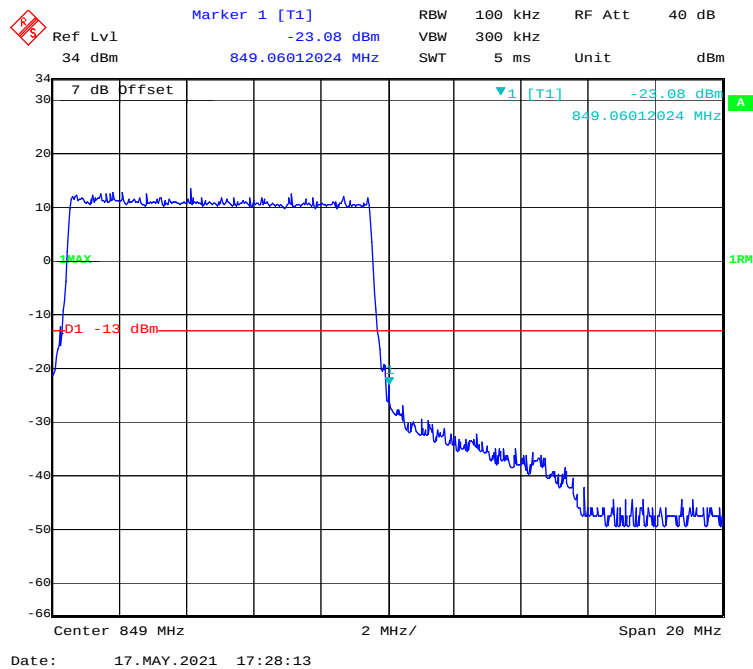


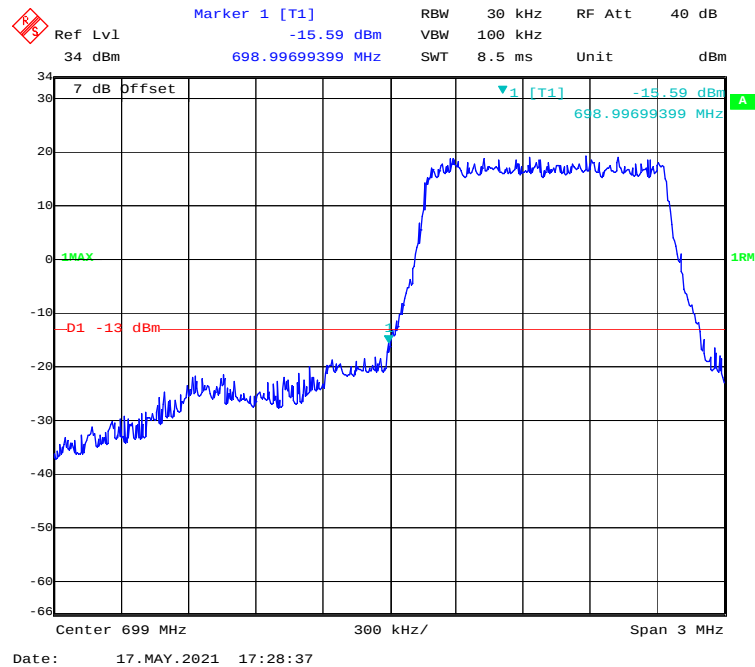
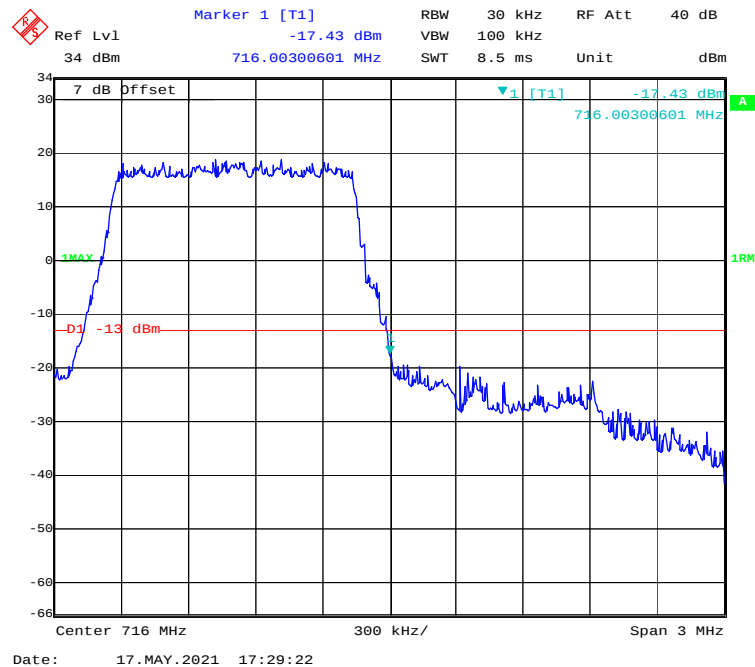
16-QAM (5.0 MHz, FULL RB) - Left Band Edge**16-QAM (5.0 MHz, FULL RB) - Right Band Edge**

16-QAM (10.0 MHz, FULL RB) - Left Band Edge

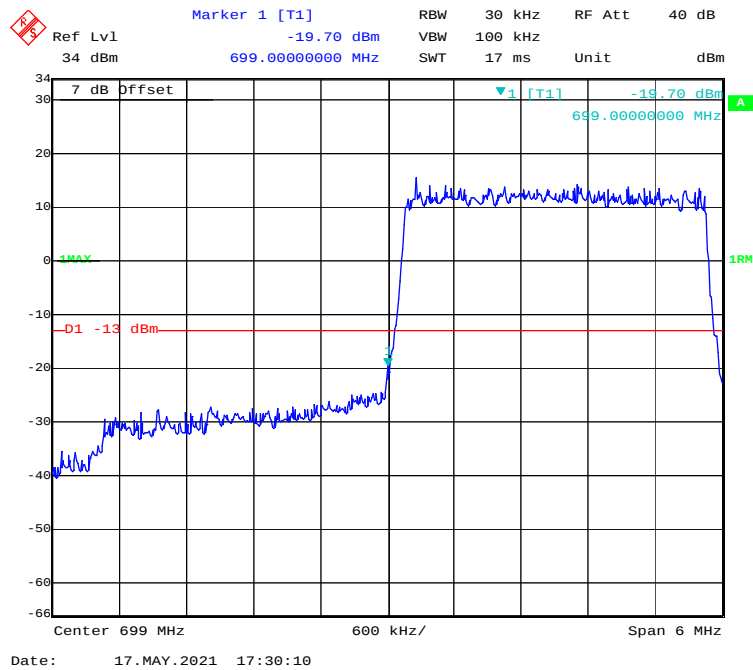


16-QAM (10.0 MHz, FULL RB) - Right Band Edge

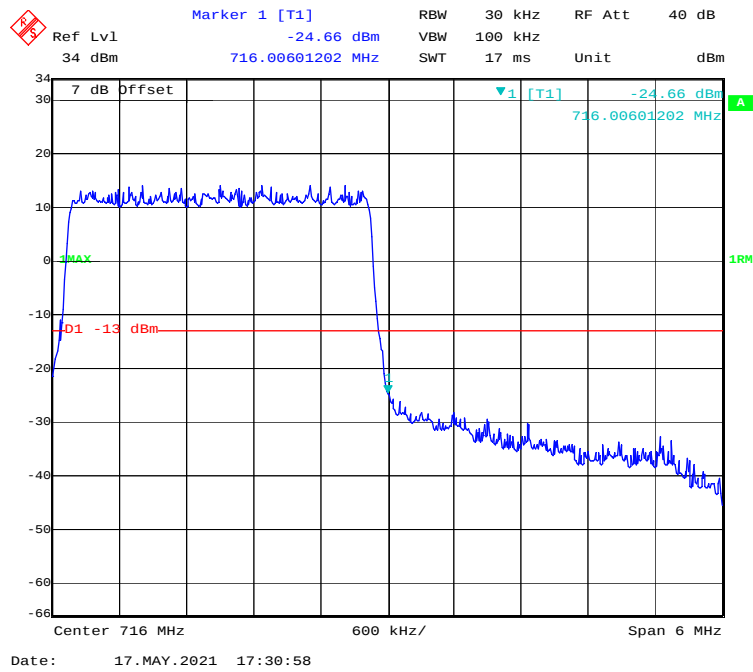


LTE Band 12:**QPSK (1.4 MHz, FULL RB) - Left Band Edge****QPSK (1.4 MHz, FULL RB) - Right Band Edge**

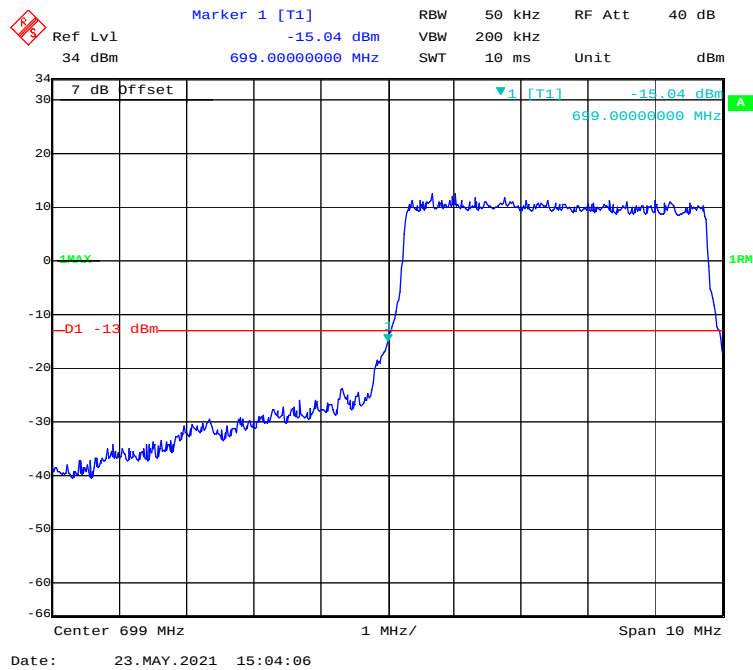
QPSK (3 MHz, FULL RB) - Left Band Edge



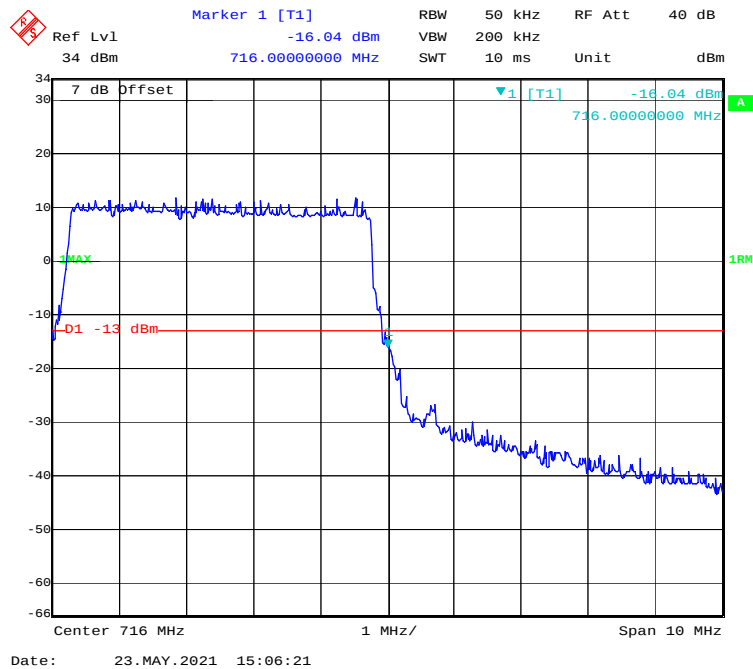
QPSK (3 MHz, FULL RB) - Right Band Edge



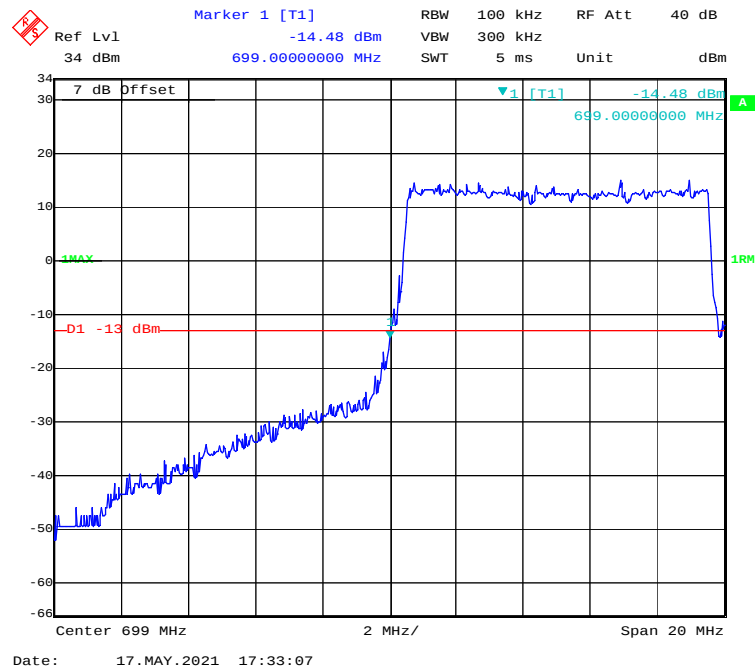
QPSK (5 MHz, FULL RB) - Left Band Edge



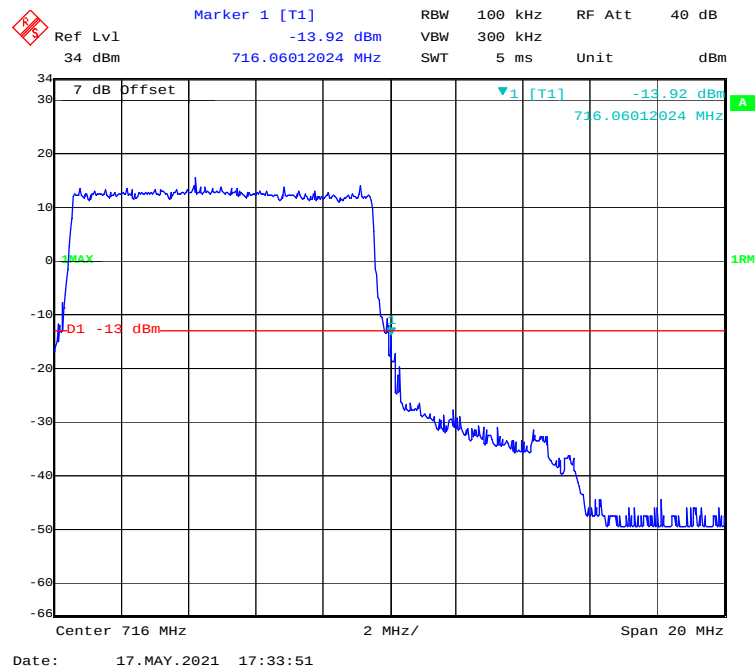
QPSK (5 MHz, FULL RB) - Right Band Edge



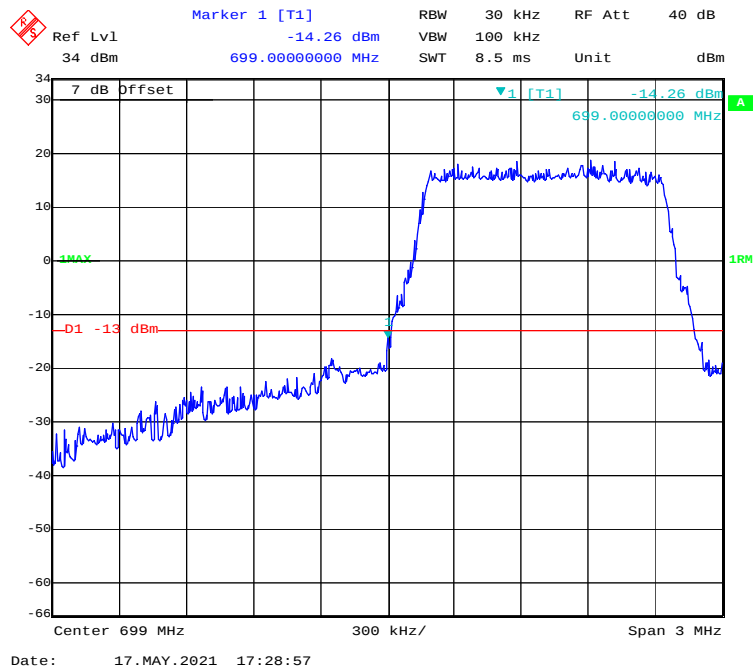
QPSK (10 MHz, FULL RB) - Left Band Edge



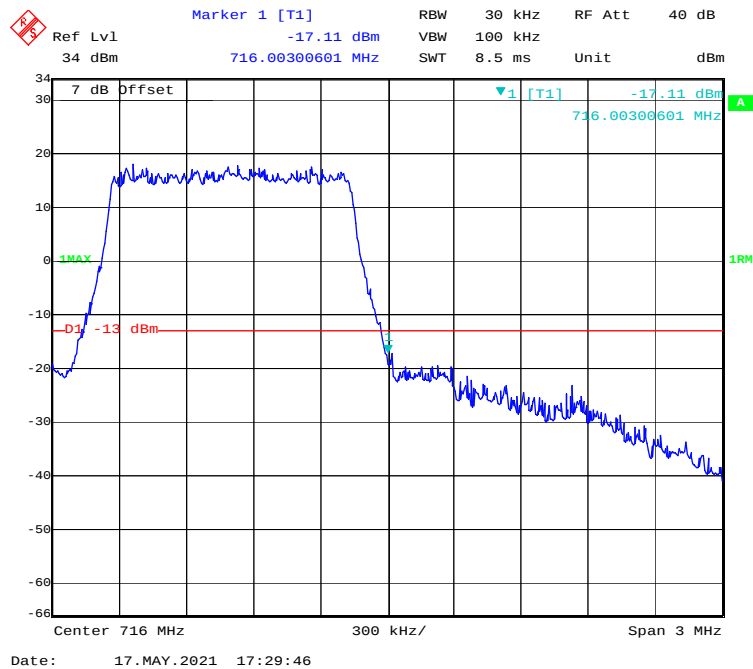
QPSK (10 MHz, FULL RB) - Right Band Edge



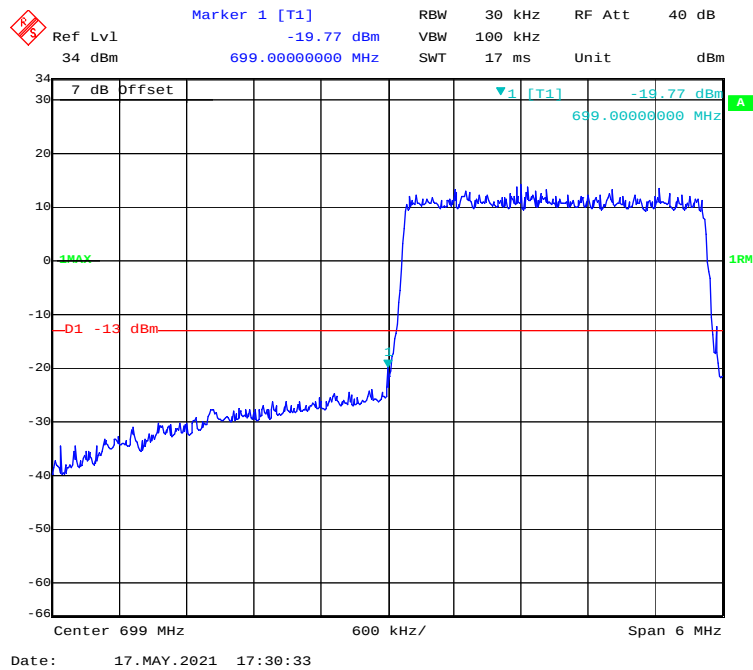
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



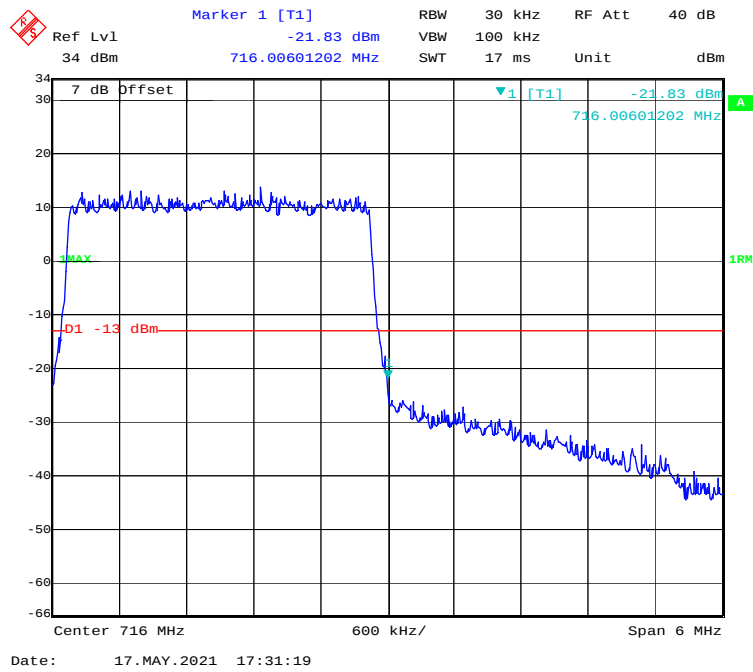
16-QAM (1.4 MHz, FULL RB) - Right Band Edge

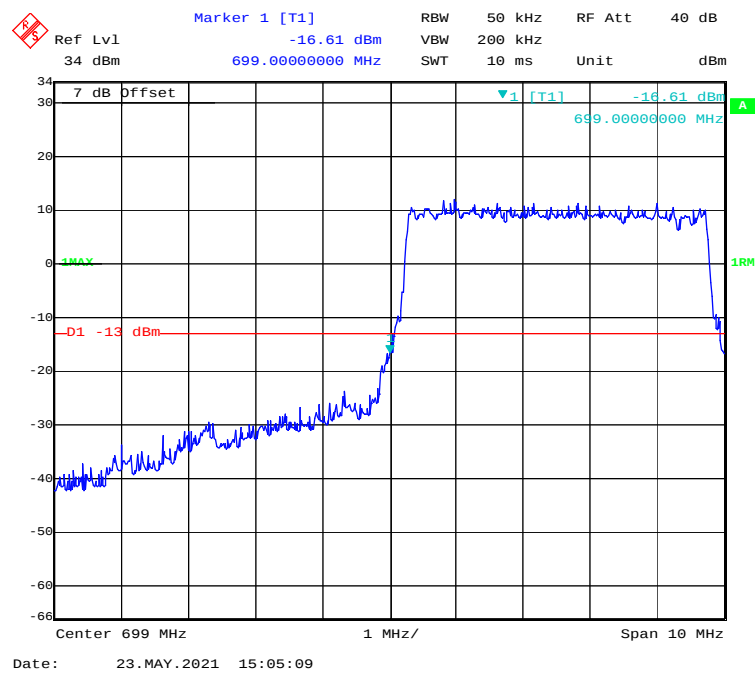
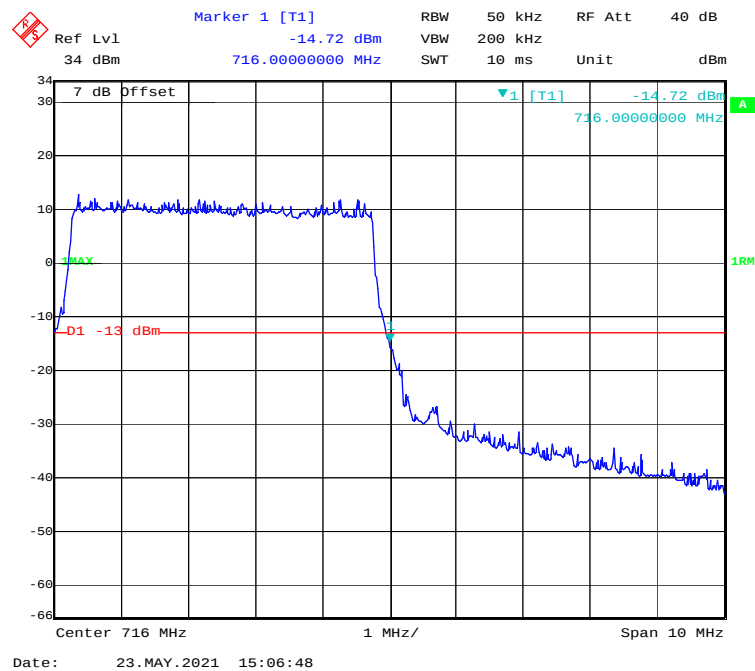


16-QAM (3 MHz, FULL RB) - Left Band Edge



16-QAM (3 MHz, FULL RB) - Right Band Edge



16-QAM (5 MHz, FULL RB) - Left Band Edge**16-QAM (5 MHz, FULL RB) - Right Band Edge**

Ref Lvl 34 dBm
 RBW 100 kHz RF Att 40 dB
 Marker 1 [T1] -16.22 dBm
 VBW 300 kHz
 SWT 5 ms Unit dBm

7 dB Offset
 -MAX
 -D1 -13 dBm
 -16.22 dBm
 698.97995992 MHz
 -1
 [T1]

Center 699 MHz 2 MHz/ Span 20 MHz

Date: 17.MAY.2021 17:33:29

Marker 1 [T1]
 -15.29 dBm
 716.06012024 MHz

RBW 100 kHz
 VBW 300 kHz
 SWT 5 ms

Ref Lvl 34 dBm
 RF Att 40 dB
 Unit dBm

7 dB Offset

▼1 [T1] -15.29 dBm
 716.06012024 MHz

1MAX

1RM

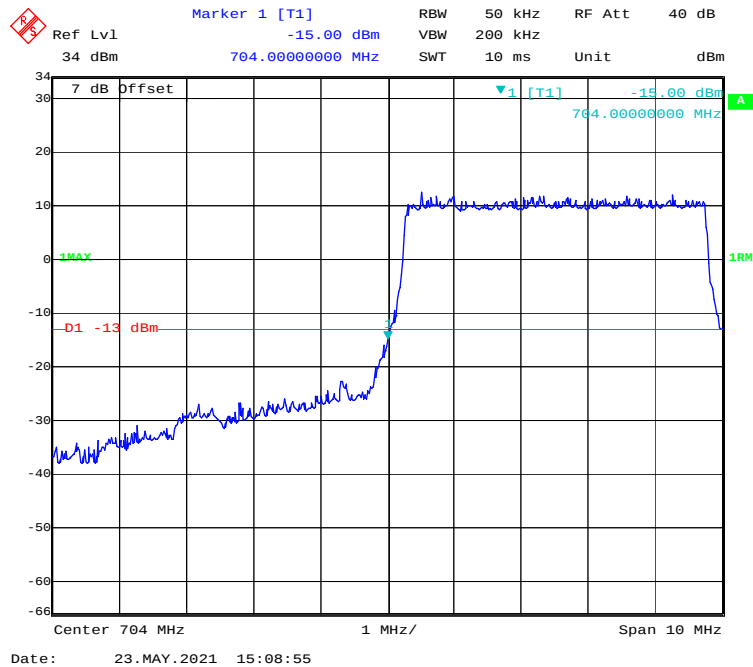
D1 -13 dBm

Center 716 MHz 2 MHz/ Span 20 MHz

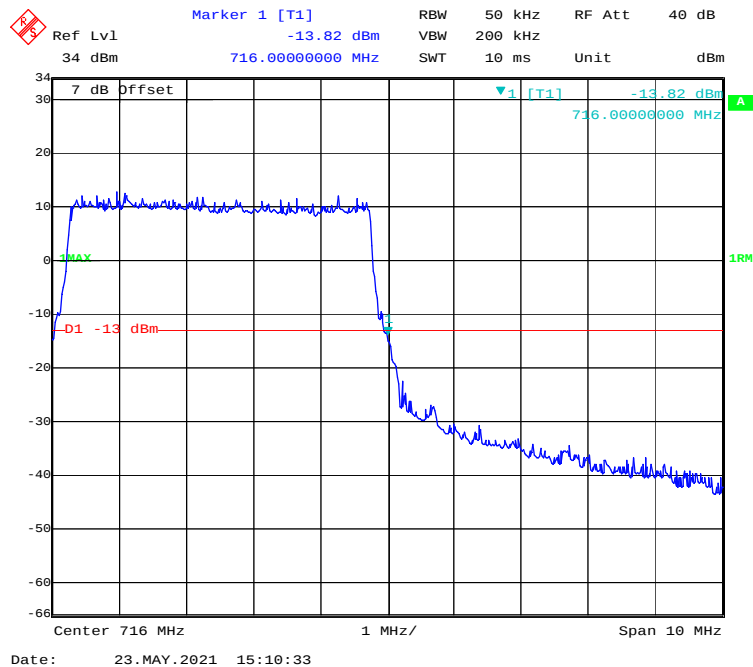
Date: 17.MAY.2021 17:34:13

LTE Band 17:

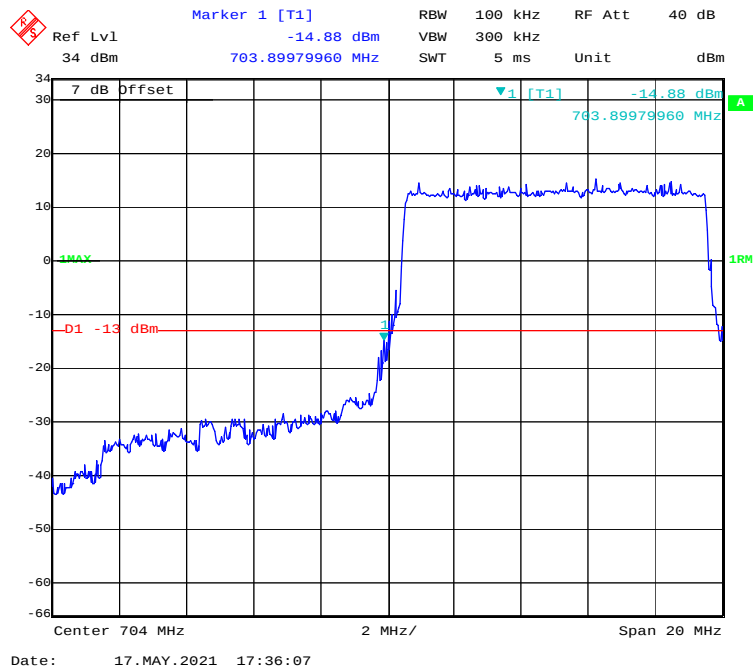
QPSK (5 MHz, FULL RB) - Left Band Edge



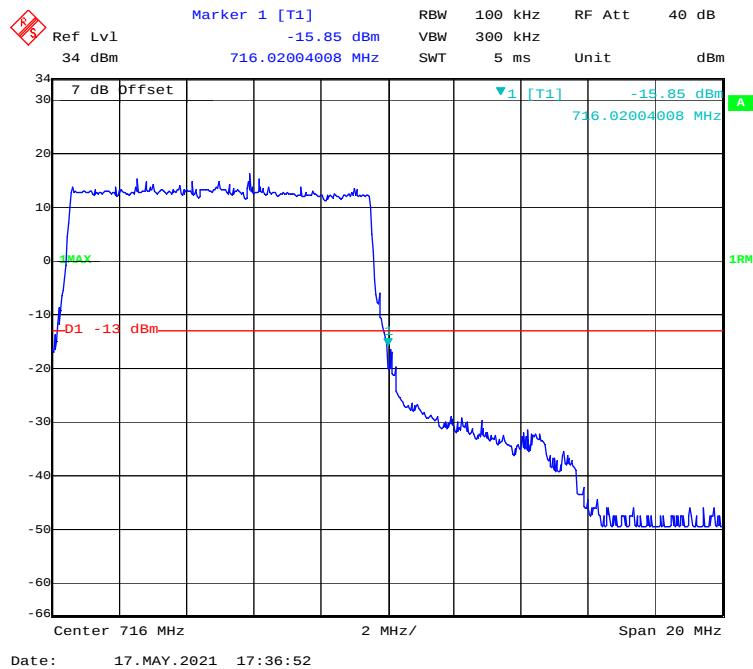
QPSK (5 MHz, FULL RB) - Right Band Edge



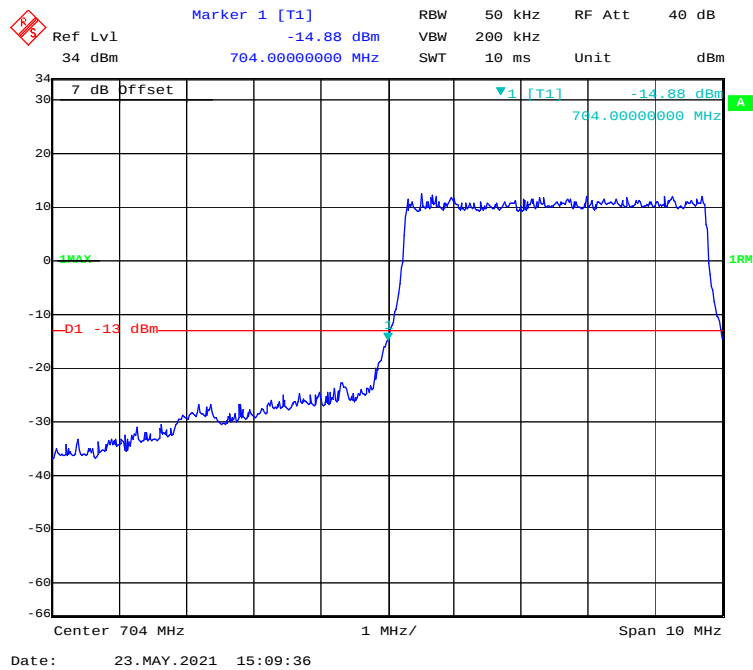
QPSK (10 MHz, FULL RB) - Left Band Edge



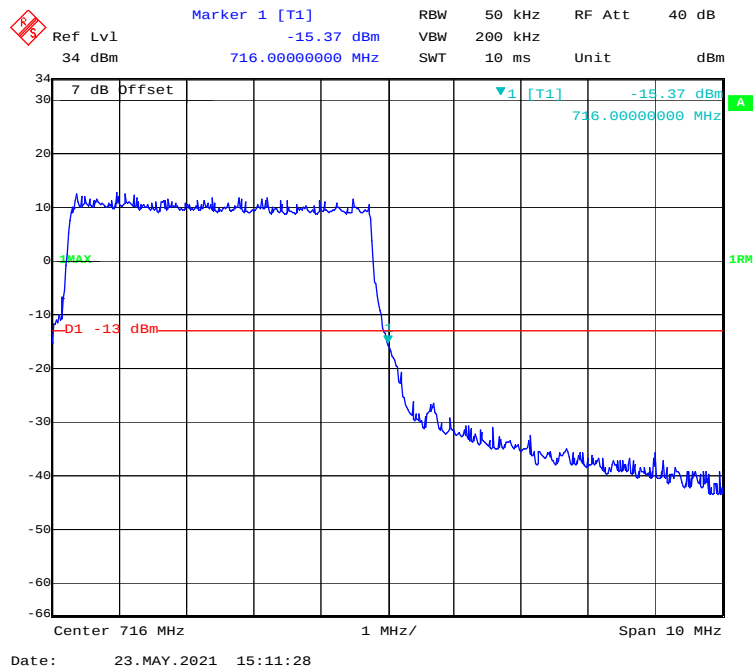
QPSK (10 MHz, FULL RB) - Right Band Edge



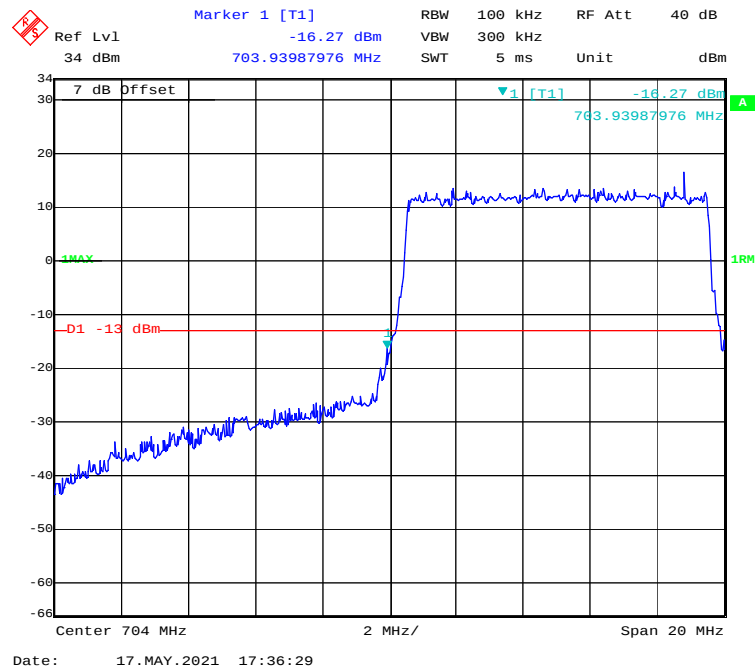
16-QAM (5 MHz, FULL RB) - Left Band Edge



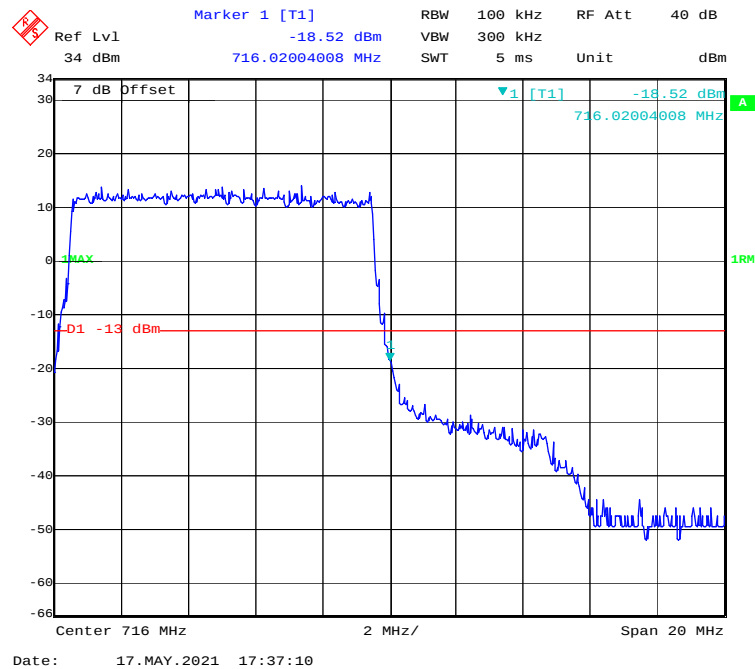
16-QAM (5 MHz, FULL RB) - Right Band Edge



16-QAM (10 MHz, FULL RB) - Left Band Edge



16-QAM (10 MHz, FULL RB) - Right Band Edge



FCC § 2.1055; § 22.355; § 24.235; §27.54 - FREQUENCY STABILITY**Applicable Standards**

FCC § 2.1055, §22.355, §24.235 and §27.54.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

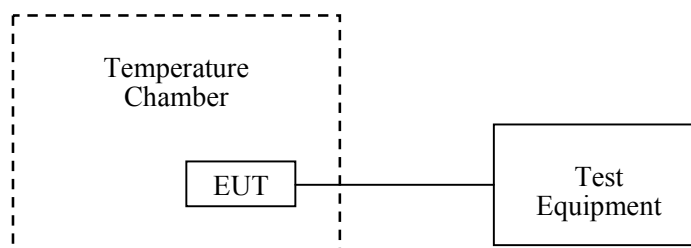
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

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 DC 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: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data**Environmental Conditions**

Temperature:	24.9 °C
Relative Humidity:	52 %
ATM Pressure:	101.9 kPa

The testing was performed by Miller Xie on 2021-06-08.

EUT operation mode: Transmitting

Test Result: Compliance.

WCDMA Band V:

WCDMA Mode, Middle Channel, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.63	25	0.0299	2.5
-20		27	0.0323	2.5
-10		18	0.0215	2.5
0		15	0.0179	2.5
10		13	0.0155	2.5
20		10	0.0120	2.5
30		8	0.0096	2.5
40		7	0.0084	2.5
50		10	0.0120	2.5
20	V min.= 3.27	13	0.0155	2.5
20	V max.= 3.99	9	0.0108	2.5

WCDMA Band II:

WCDMA Mode, Middle Channel, $f_0 = 1880.0$ MHz				
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	3.63	27	0.0144	pass
-20		16	0.0085	pass
-10		17	0.0090	pass
0		16	0.0085	pass
10		15	0.0080	pass
20		6	0.0032	pass
30		13	0.0069	pass
40		10	0.0053	pass
50		15	0.0080	pass
20	V min.= 3.27	13	0.0069	pass
20	V max.= 3.99	18	0.0096	pass

LTE Band 2:

Middle Channel, $f_0=1880.0$ MHz (QPSK) /Channel Bandwidth:20MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Result
-30	3.63	14	0.0074	pass
-20		12	0.0064	pass
-10		9	0.0048	pass
0		14	0.0074	pass
10		16	0.0085	pass
20		20	0.0106	pass
30		7	0.0037	pass
40		16	0.0085	pass
50		13	0.0069	pass
20	V min.= 3.27	16	0.0085	pass
20	V max.= 3.99	15	0.0080	pass

Middle Channel, $f_0=1880.0$ MHz (16-QAM) /Channel Bandwidth:20MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.63	21	0.0112	pass
-20		10	0.0053	pass
-10		13	0.0069	pass
0		16	0.0085	pass
10		18	0.0096	pass
20		16	0.0085	pass
30		13	0.0069	pass
40		13	0.0069	pass
50		13	0.0069	pass
20	V min.= 3.27	12	0.0064	pass
20	V max.= 3.99	14	0.0074	pass

LTE Band 4:

Low Channel & High Channel (QPSK) /Channel Bandwidth:20MHz					
Temperature	Power Supplied	F _L	F _H	F _L Limit	F _H Limit
(°C)	(V _{DC})	(MHz)	(MHz)	(MHz)	(MHz)
-30	3.63	1710.0404	1754.9430	1710	1755
-20		1710.0469	1754.9412	1710	1755
-10		1710.0437	1754.9412	1710	1755
0		1710.0450	1754.9470	1710	1755
10		1710.0414	1754.9456	1710	1755
20		1710.0416	1754.9461	1710	1755
30		1710.0424	1754.9481	1710	1755
40		1710.0441	1754.9412	1710	1755
50		1710.0448	1754.9487	1710	1755
20	V min.= 3.27	1710.0440	1754.9496	1710	1755
20	V max.= 3.99	1710.0436	1754.9472	1710	1755

Low Channel & High Channel (16-QAM) /Channel Bandwidth:20MHz					
Temperature	Power Supplied	F _L	F _H	F _L Limit	F _H Limit
(°C)	(V _{DC})	(MHz)	(MHz)	(MHz)	(MHz)
-30	3.63	1710.0459	1754.9450	1710	1755
-20		1710.0436	1754.9430	1710	1755
-10		1710.0498	1754.9499	1710	1755
0		1710.0403	1754.9418	1710	1755
10		1710.0452	1754.9493	1710	1755
20		1710.0422	1754.9415	1710	1755
30		1710.0453	1754.9401	1710	1755
40		1710.0425	1754.9487	1710	1755
50		1710.0438	1754.9481	1710	1755
20	V min.= 3.27	1710.0436	1754.9444	1710	1755
20	V max.= 3.99	1710.0436	1754.9482	1710	1755

LTE Band 5:

Middle Channel, $f_0 = 836.5$ MHz (QPSK) /Channel Bandwidth:10MHz				
Temperature	Power Supplied	Frequency Error	Frequency Error	Limit
(°C)	(V _{DC})	(Hz)	(ppm)	(ppm)
-30	3.63	11	0.0132	2.5
-20		11	0.0132	2.5
-10		15	0.0179	2.5
0		16	0.0191	2.5
10		9	0.0108	2.5
20		11	0.0132	2.5
30		19	0.0227	2.5
40		15	0.0179	2.5
50		15	0.0179	2.5
20	V min.= 3.27	18	0.0215	2.5
20	V max.= 3.99	10	0.0120	2.5

Middle Channel, $f_0 = 836.5$ MHz (16-QAM) /Channel Bandwidth:10MHz				
Temperature	Power Supplied	Frequency Error	Frequency Error	Limit
(°C)	(V _{DC})	(Hz)	(ppm)	(ppm)
-30	3.63	22	0.0263	2.5
-20		18	0.0215	2.5
-10		16	0.0191	2.5
0		21	0.0251	2.5
10		18	0.0215	2.5
20		11	0.0132	2.5
30		14	0.0167	2.5
40		17	0.0203	2.5
50		13	0.0155	2.5
20	V min.= 3.27	13	0.0155	2.5
20	V max.= 3.99	12	0.0143	2.5

LTE Band 12:

Low Channel & High Channel (QPSK) /Channel Bandwidth:10MHz					
Temperature	Power Supplied	F _L	F _H	F _L Limit	F _H Limit
(°C)	(V _{DC})	(MHz)	(MHz)	(MHz)	(MHz)
-30	3.63	699.9539	715.9423	699	716
-20		699.9530	715.9473	699	716
-10		699.9558	715.9418	699	716
0		699.9575	715.9431	699	716
10		699.9547	715.9464	699	716
20		699.9538	715.9453	699	716
30		699.9556	715.9443	699	716
40		699.9541	715.9484	699	716
50		699.9566	715.9412	699	716
20	V min.= 3.27	699.9507	715.9487	699	716
20	V max.= 3.99	699.9599	715.9444	699	716

Low Channel & High Channel (16-QAM) /Channel Bandwidth:10MHz					
Temperature	Power Supplied	F _L	F _H	F _L Limit	F _H Limit
(°C)	(V _{DC})	(MHz)	(MHz)	(MHz)	(MHz)
-30	3.63	699.9515	715.9421	699	716
-20		699.9550	715.944	699	716
-10		699.9503	715.944	699	716
0		699.9521	715.9437	699	716
10		699.9537	715.9496	699	716
20		699.9534	715.9497	699	716
30		699.9577	715.9482	699	716
40		699.9568	715.9473	699	716
50		699.9524	715.9475	699	716
20	V min.= 3.27	699.9575	715.9477	699	716
20	V max.= 3.99	699.9521	715.9449	699	716

LTE Band 17:

Low Channel & High Channel (QPSK) /Channel Bandwidth:10MHz					
Temperature	Power Supplied	F _L	F _H	F _L Limit	F _H Limit
(°C)	(V _{DC})	(MHz)	(MHz)	(MHz)	(MHz)
-30	3.63	704.9513	715.9411	704	716
-20		704.9538	715.9454	704	716
-10		704.9546	715.9477	704	716
0		704.9571	715.9489	704	716
10		704.9511	715.9478	704	716
20		704.9571	715.9418	704	716
30		704.9578	715.9493	704	716
40		704.9576	715.9464	704	716
50		704.9580	715.9429	704	716
20	V min.= 3.27	704.9582	715.9490	704	716
20	V max.= 3.99	704.9544	715.9464	704	716

Low Channel & High Channel (16-QAM) /Channel Bandwidth:10MHz					
Temperature	Power Supplied	F _L	F _H	F _L Limit	F _H Limit
(°C)	(V _{DC})	(MHz)	(MHz)	(MHz)	(MHz)
-30	3.63	704.9505	715.9421	704	716
-20		704.9503	715.9478	704	716
-10		704.9540	715.9487	704	716
0		704.9549	715.9471	704	716
10		704.9561	715.9437	704	716
20		704.9531	715.9442	704	716
30		704.9597	715.9431	704	716
40		704.9581	715.9483	704	716
50		704.9503	715.9494	704	716
20	V min.= 3.27	704.9545	715.9407	704	716
20	V max.= 3.99	704.9515	715.9479	704	716

Declarations

- 1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.
- 2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- 3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
- 5: This report cannot be reproduced except in full, without prior written approval of the Company.
- 6: This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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