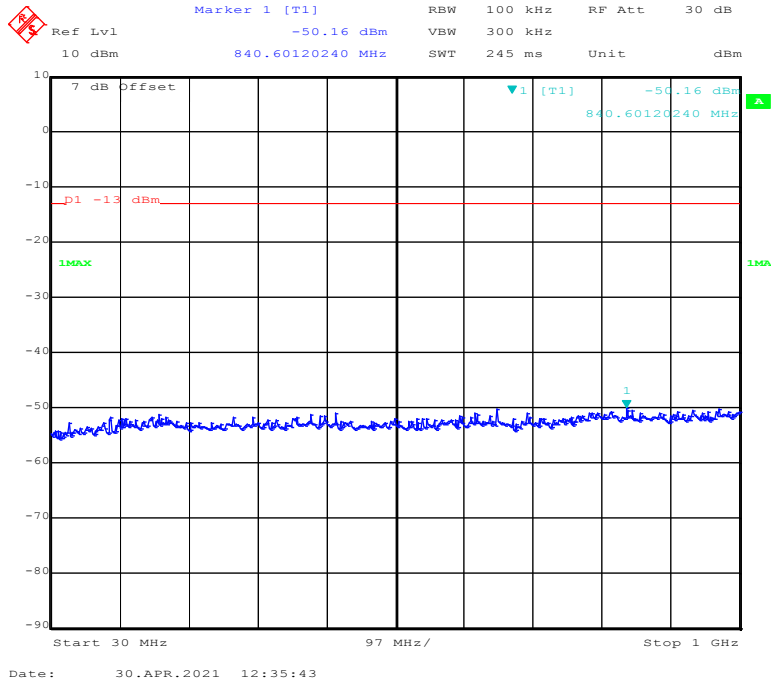
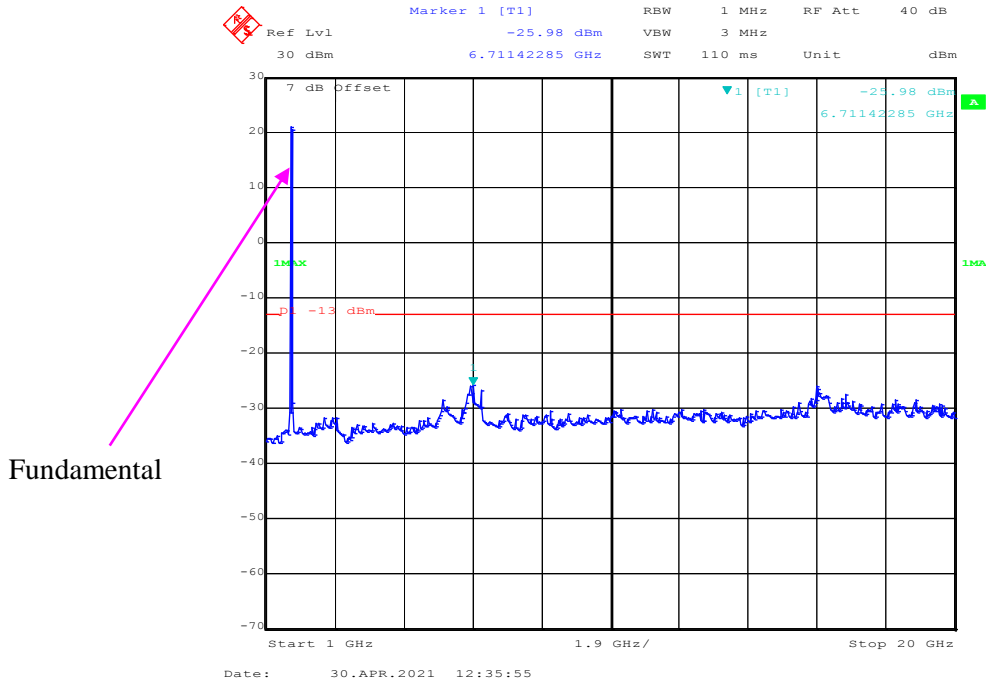


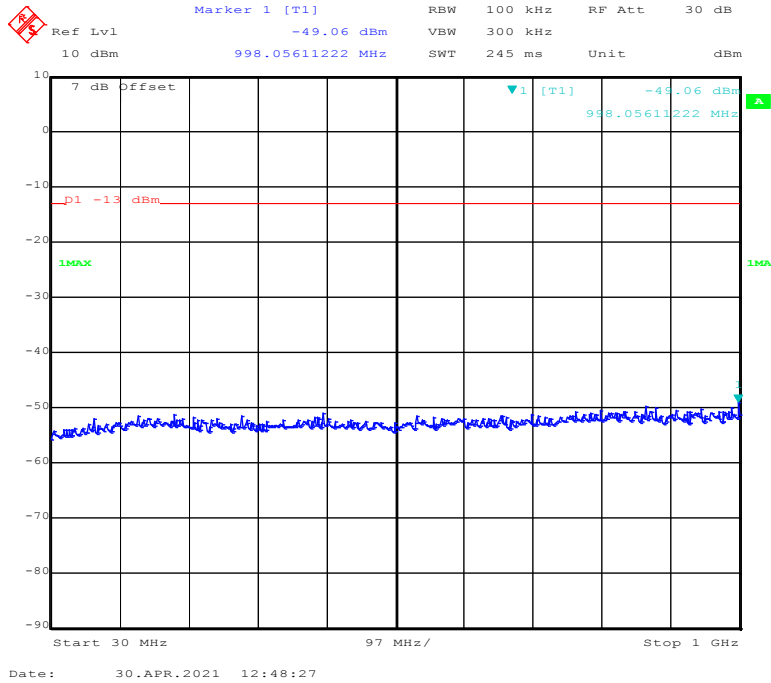
30 MHz – 1 GHz (15 MHz, QPSK, Low Channel)



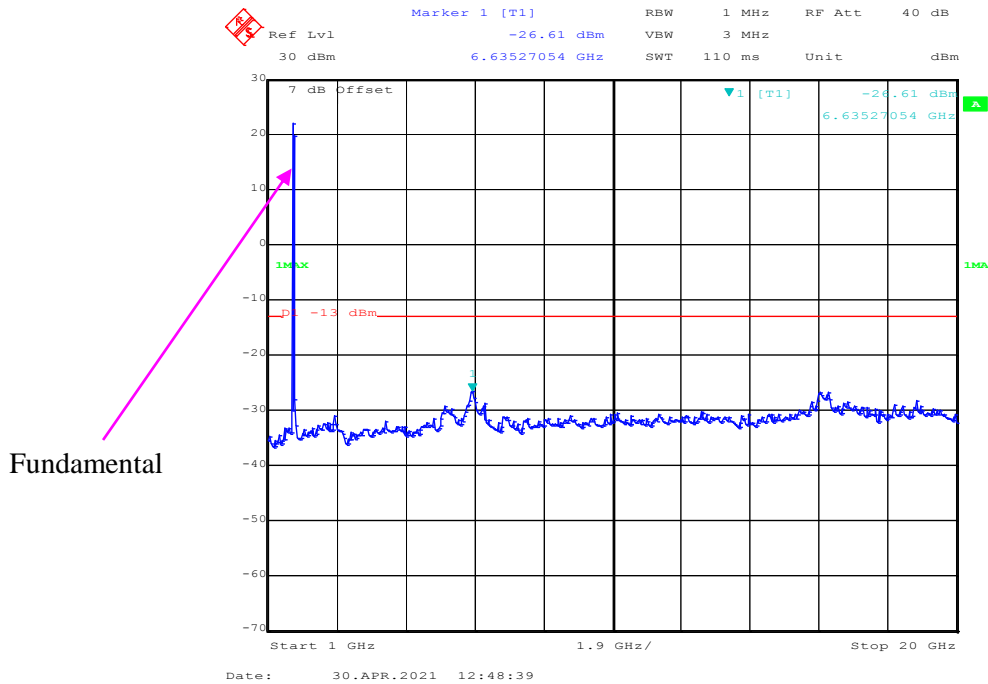
1 GHz – 20 GHz (15 MHz, QPSK, Low Channel)



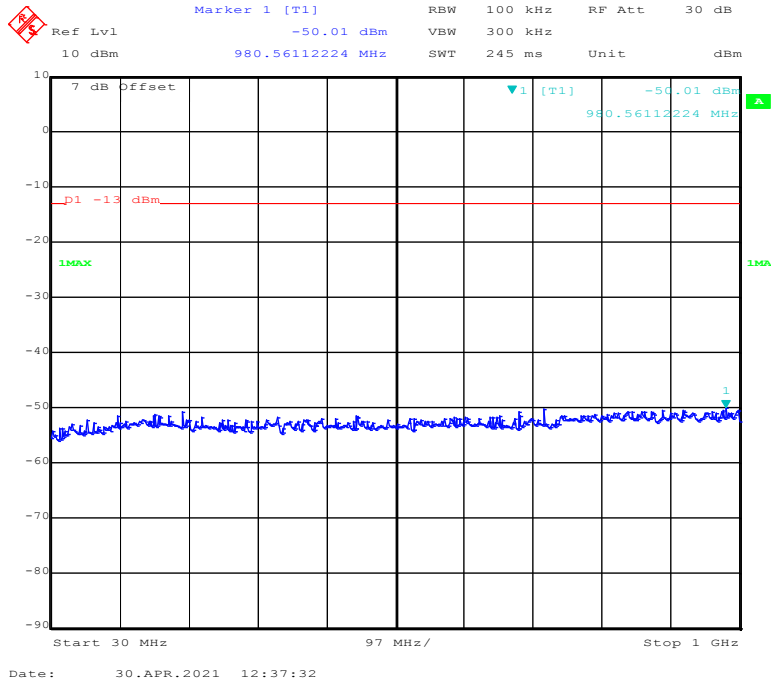
30 MHz – 1 GHz (15 MHz, 16-QAM, Low Channel)



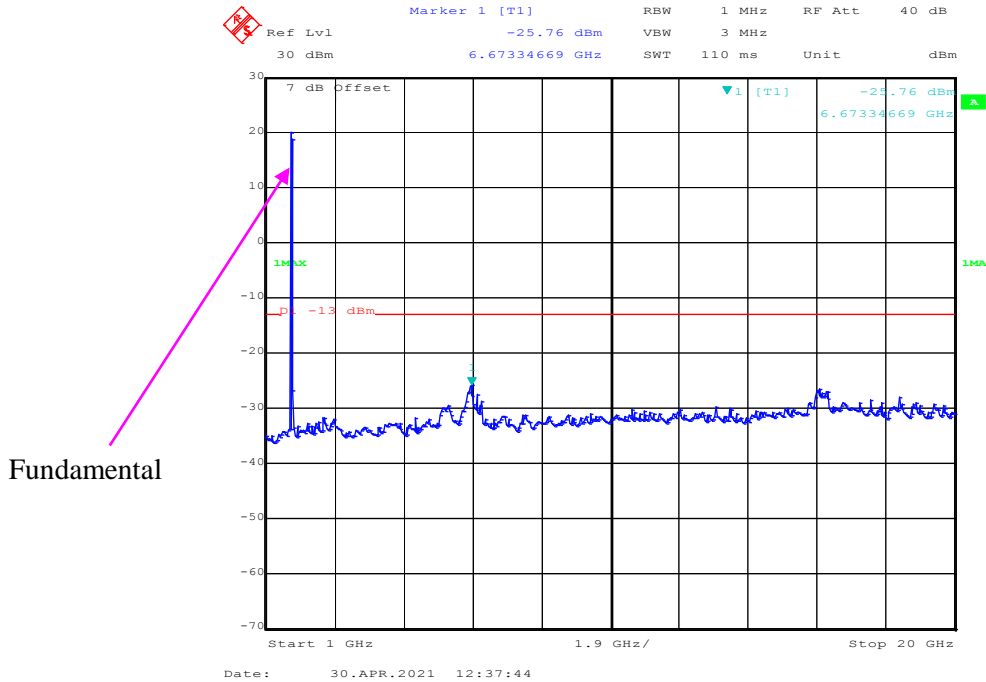
1 GHz – 20 GHz (15 MHz, 16-QAM, Low Channel)



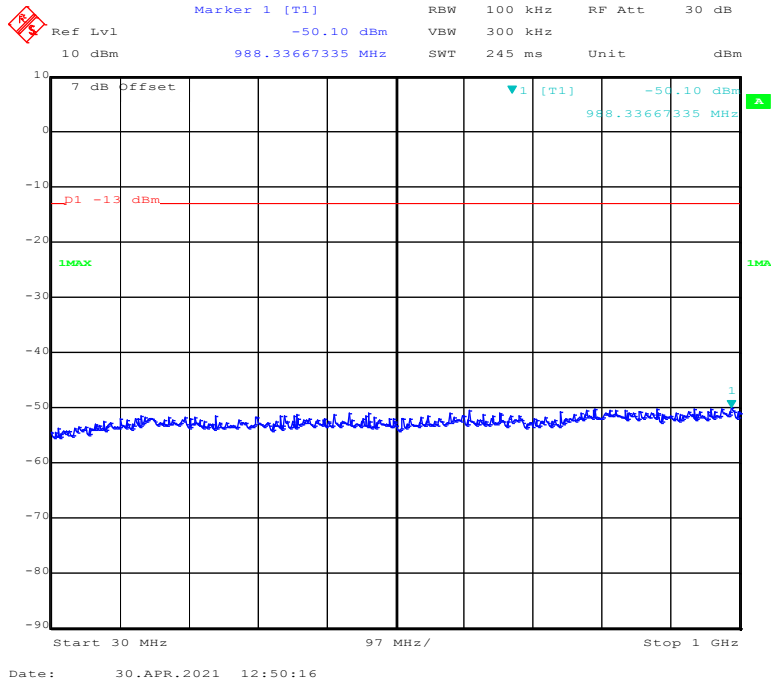
30 MHz – 1 GHz (20 MHz, QPSK, Low Channel)



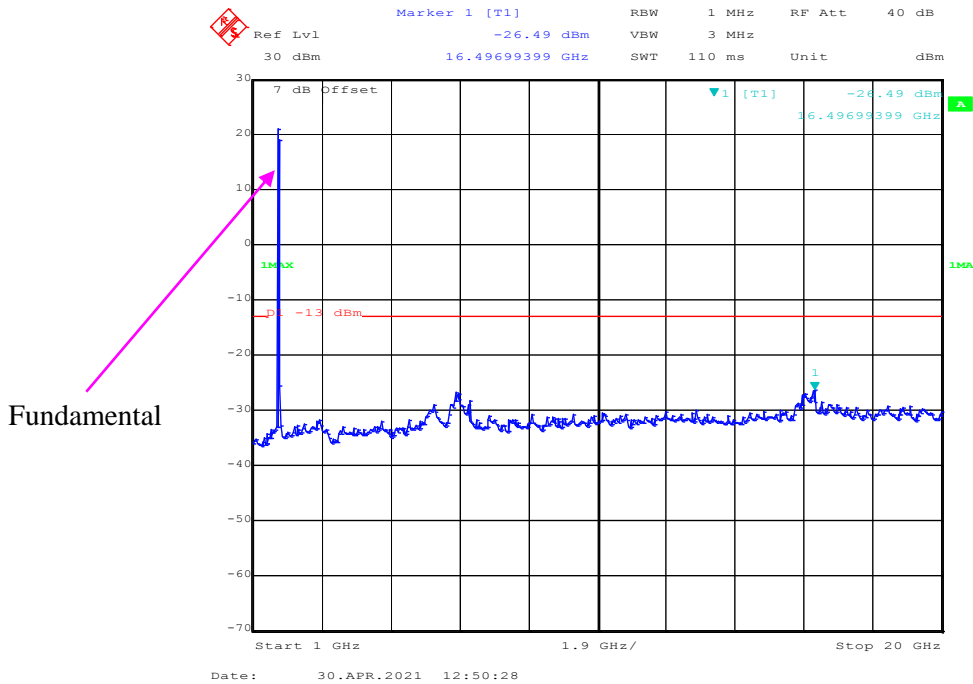
1 GHz – 20 GHz (20 MHz, QPSK, Low Channel)



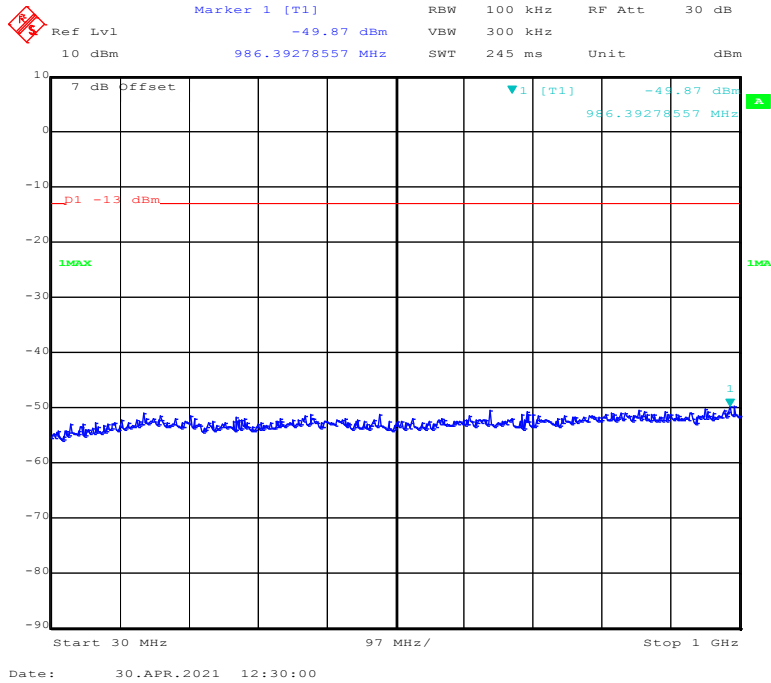
30 MHz – 1 GHz (20 MHz, 16-QAM, Low Channel)



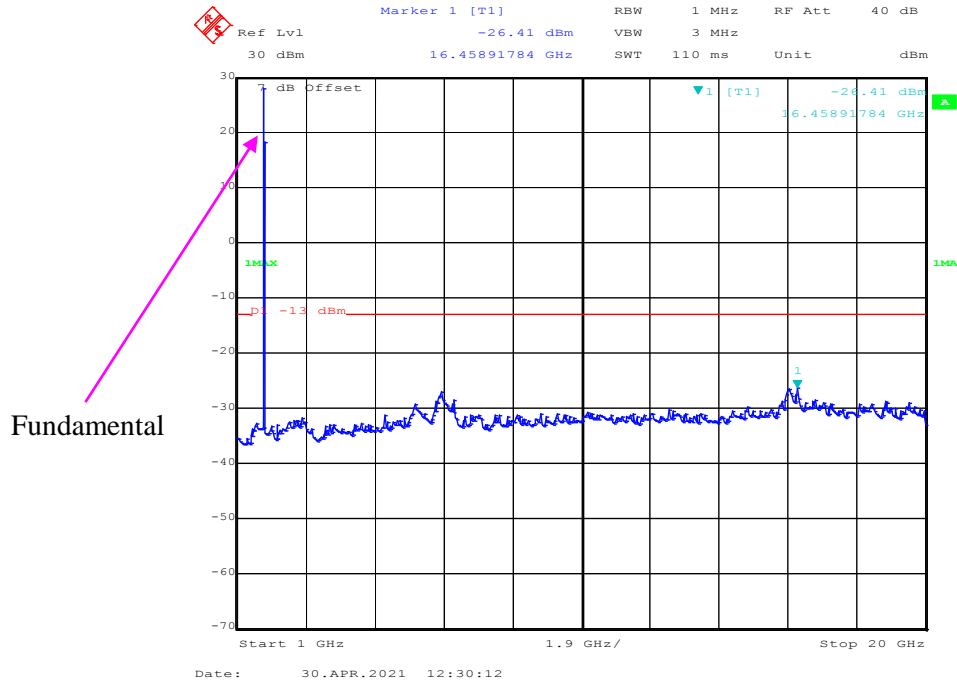
1 GHz – 20 GHz (20 MHz, 16-QAM, Low Channel)



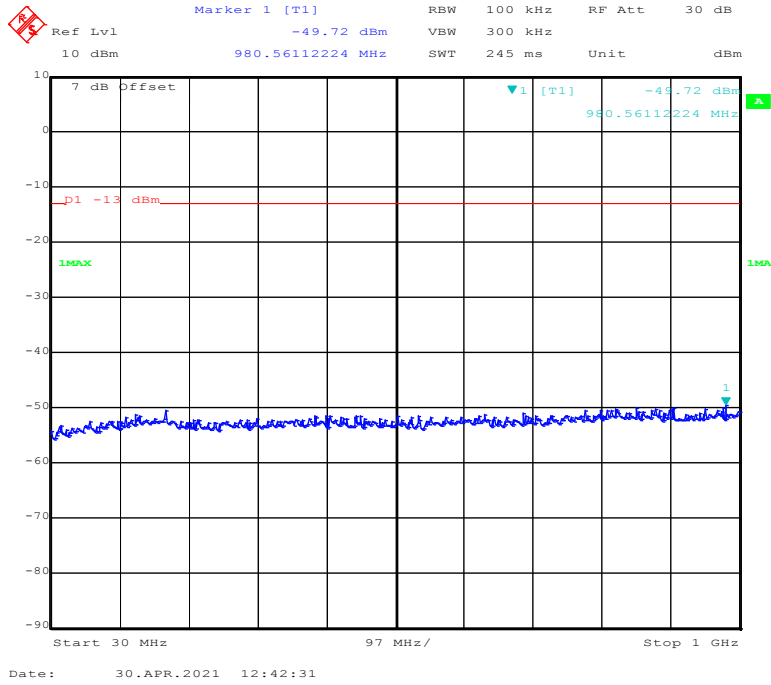
30 MHz – 1 GHz (1.4 MHz, QPSK, Middle Channel)



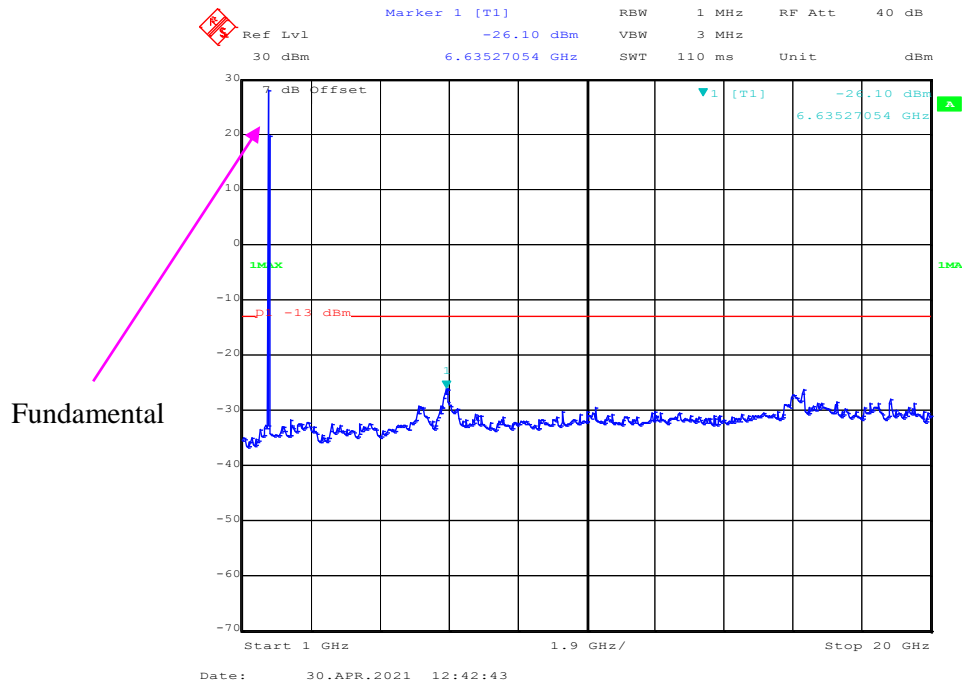
1 GHz – 20 GHz (1.4 MHz, QPSK, Middle Channel)



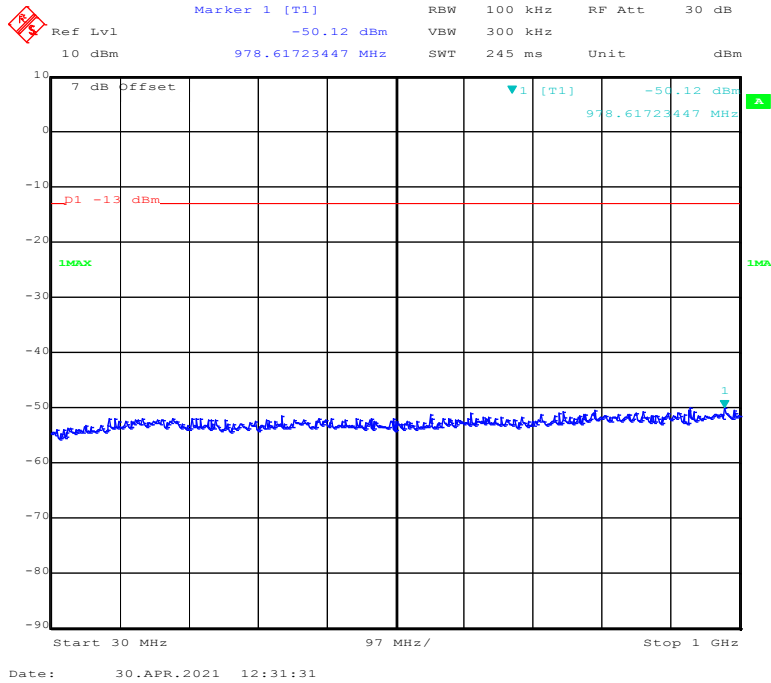
30 MHz – 1 GHz (1.4 MHz, 16-QAM, Middle Channel)



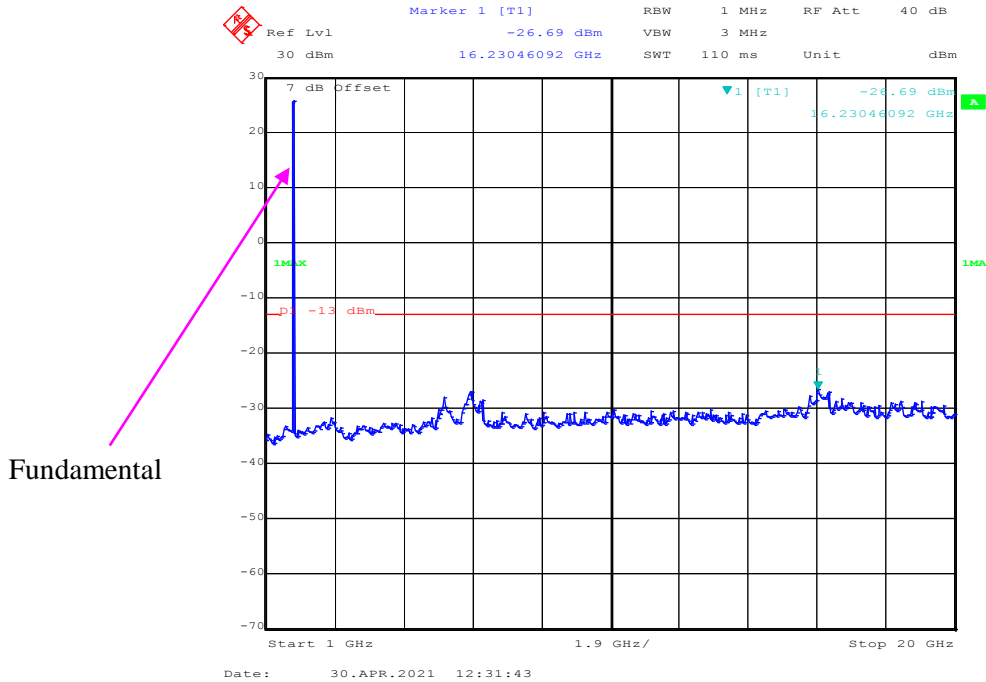
1 GHz – 20 GHz (1.4 MHz, 16-QAM, Middle Channel)



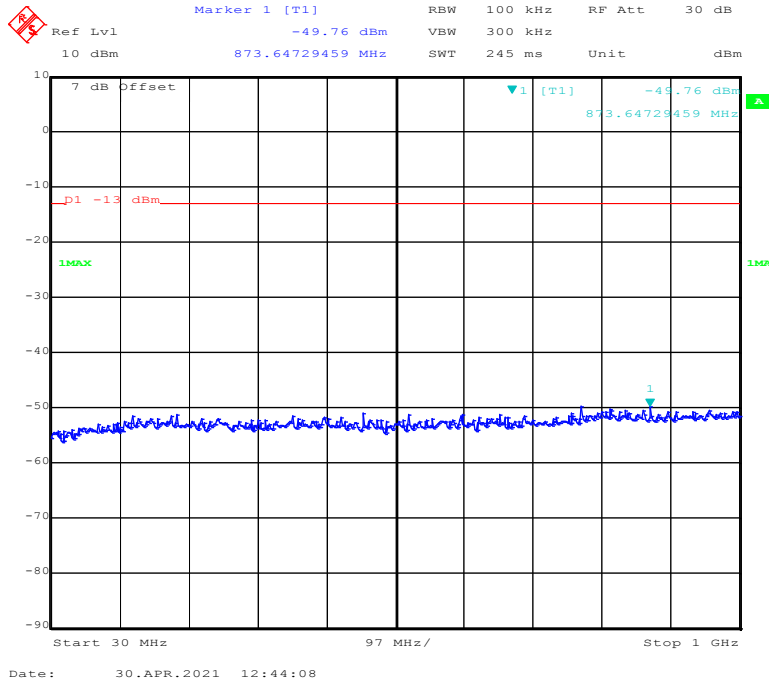
30 MHz – 1 GHz (3 MHz, QPSK, Middle Channel)



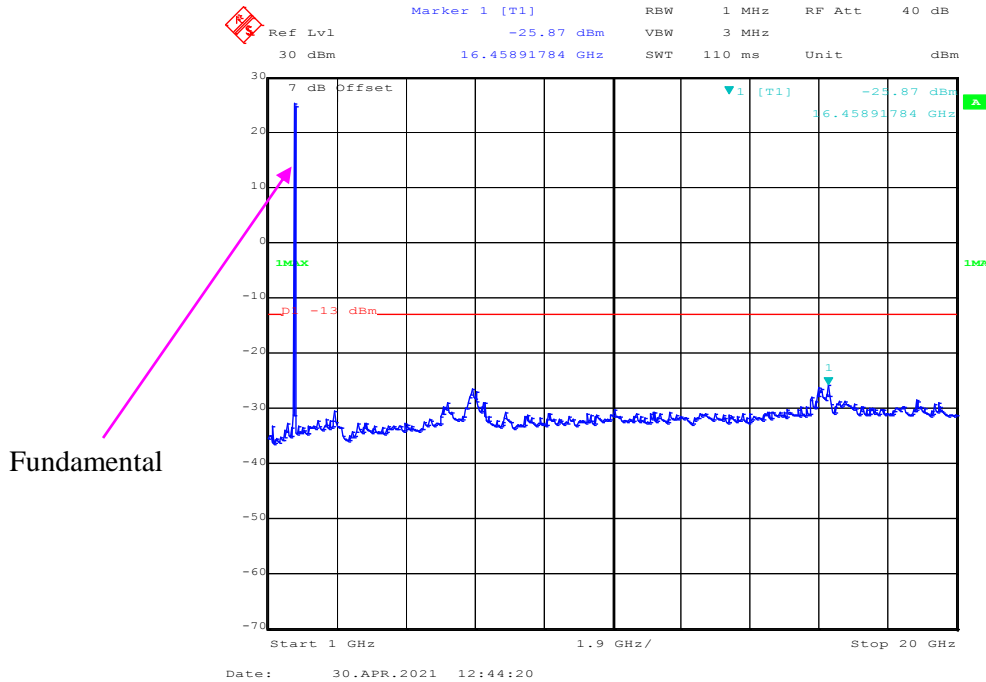
1 GHz – 20 GHz (3 MHz, QPSK, Middle Channel)



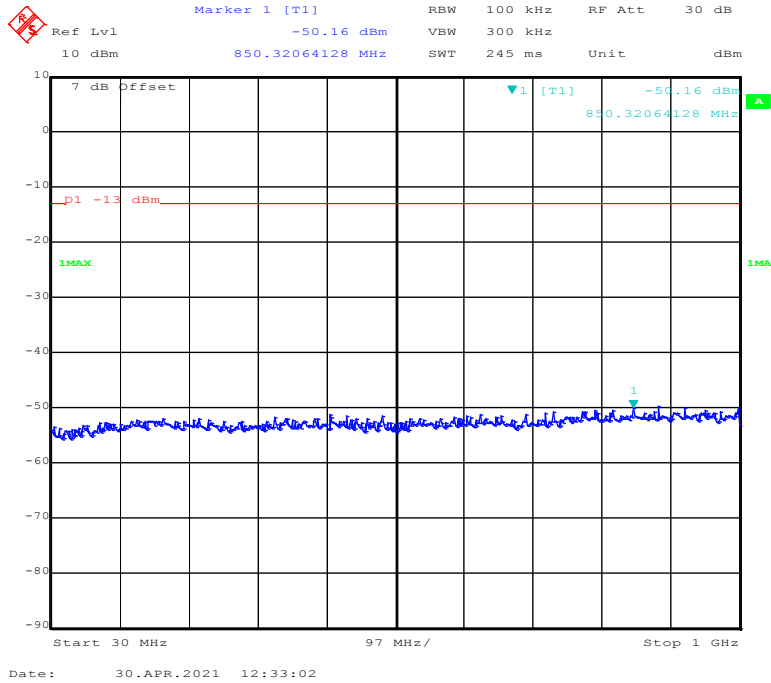
30 MHz – 1 GHz (3 MHz, 16-QAM, Middle Channel)



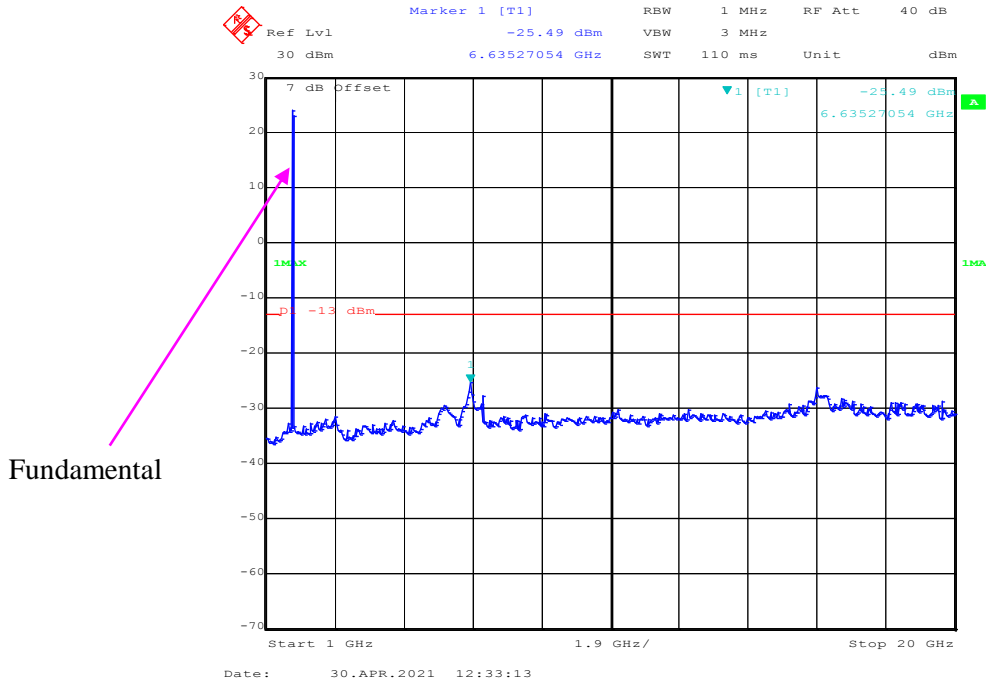
1 GHz – 20 GHz (3 MHz, 16-QAM, Middle Channel)



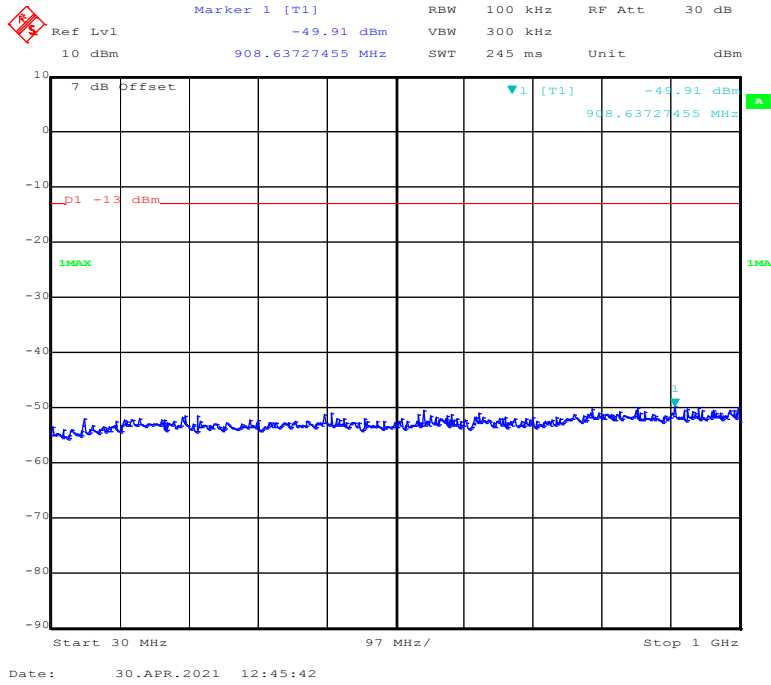
30 MHz – 1 GHz (5 MHz, QPSK, Middle Channel)



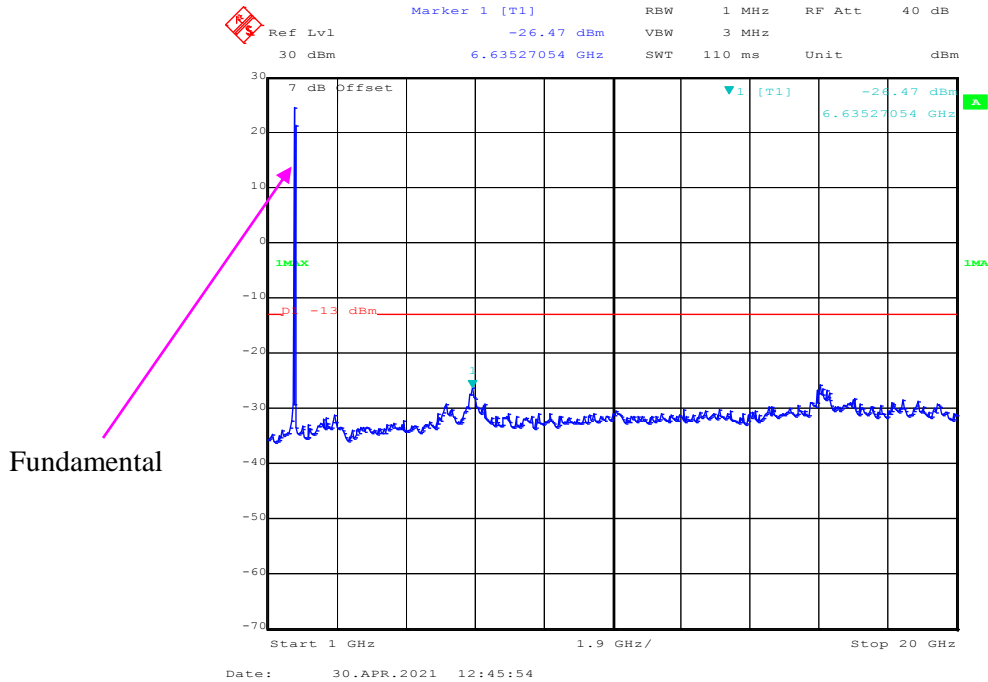
1 GHz – 20 GHz (5 MHz, QPSK, Middle Channel)



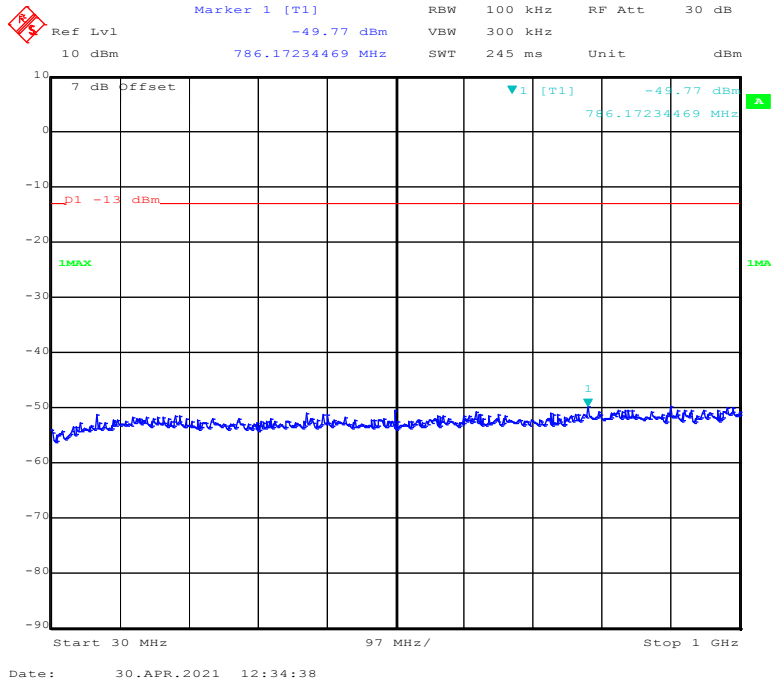
30 MHz – 1 GHz (5 MHz, 16-QAM, Middle Channel)



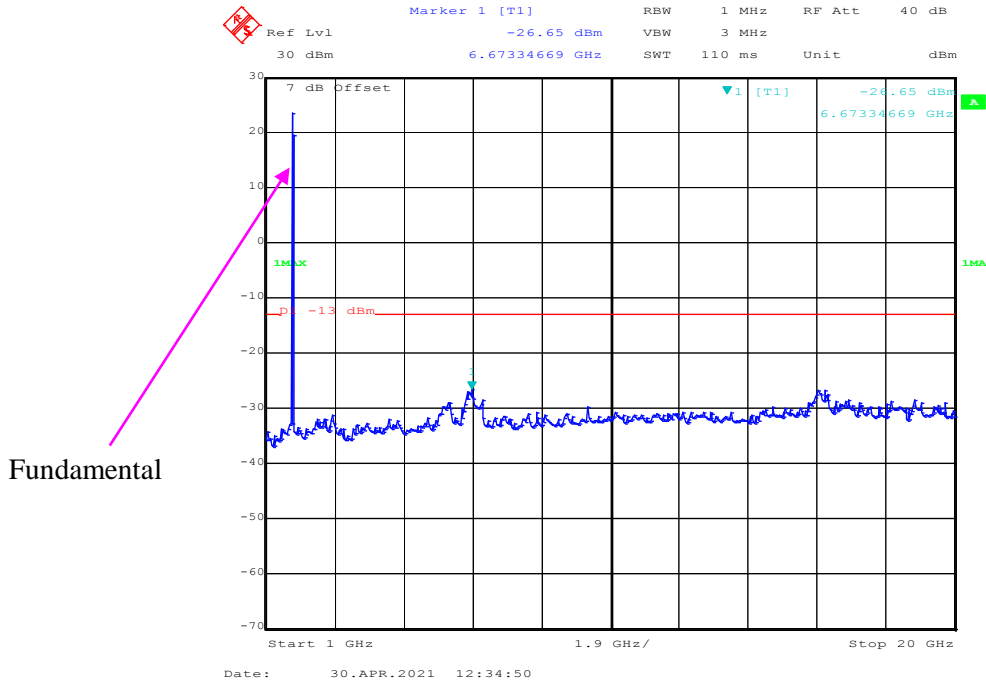
1 GHz – 20 GHz (5 MHz, 16-QAM, Middle Channel)



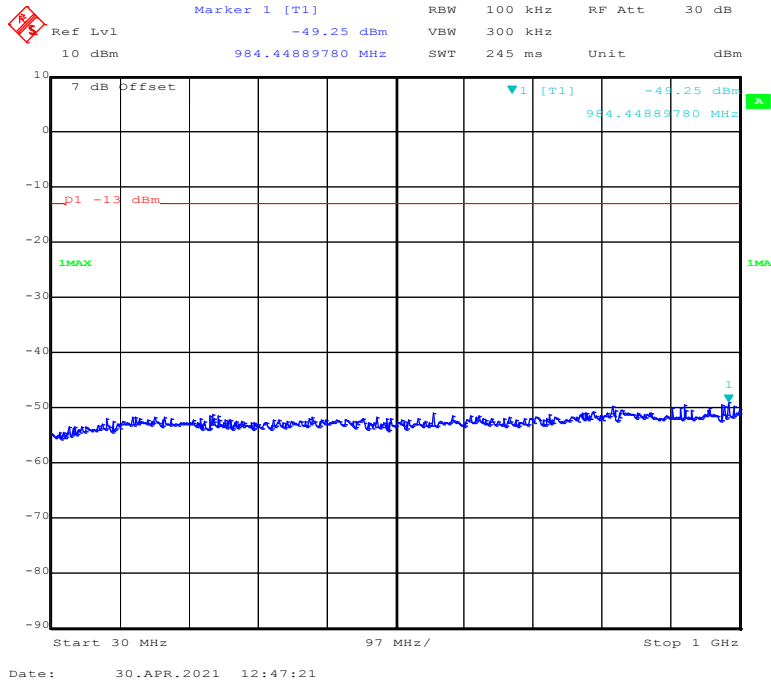
30 MHz – 1 GHz (10 MHz, QPSK, Middle Channel)



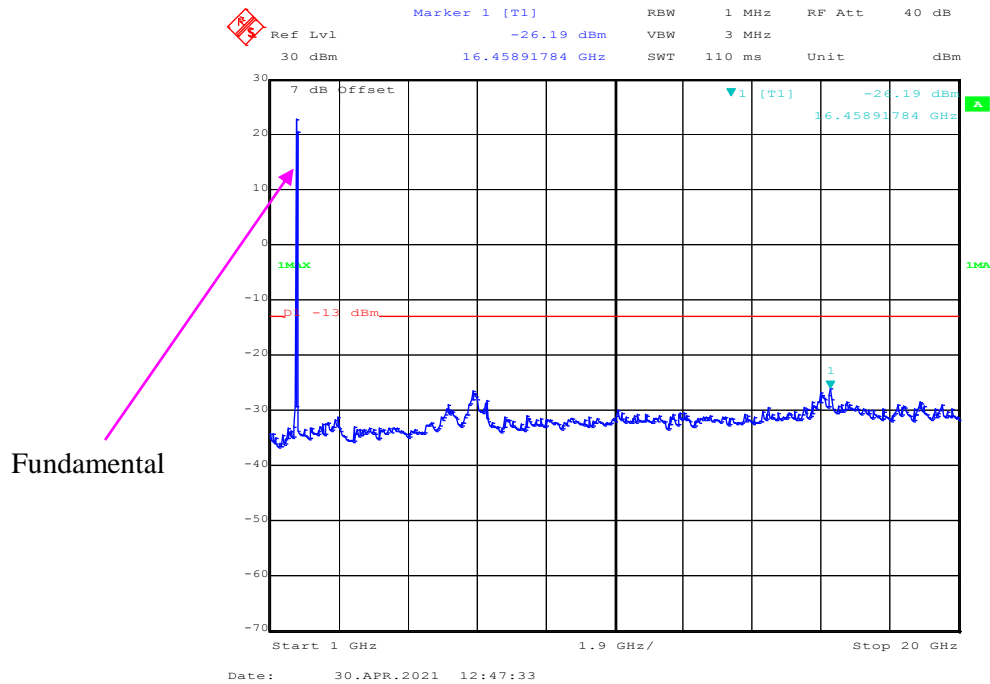
1 GHz – 20 GHz (10 MHz, QPSK, Middle Channel)



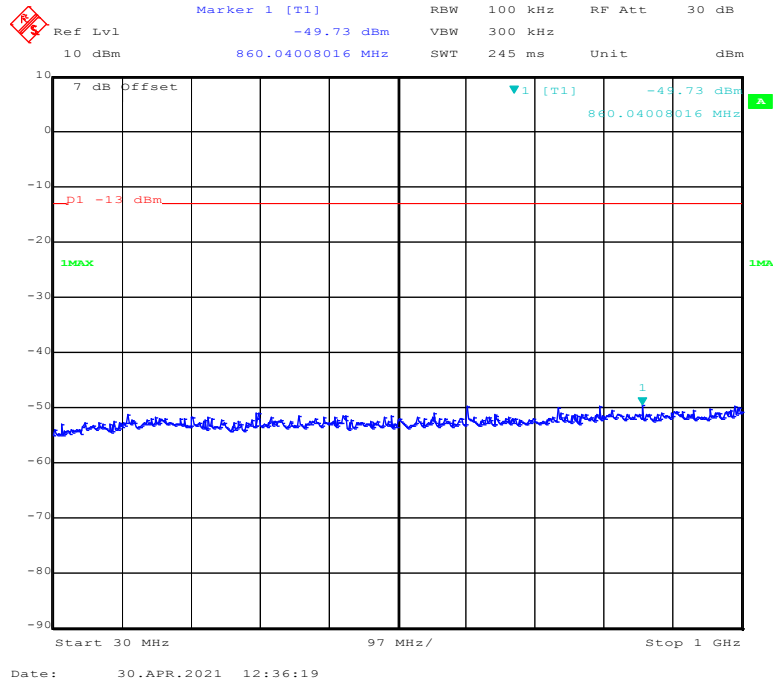
30 MHz – 1 GHz (10 MHz, 16-QAM, Middle Channel)



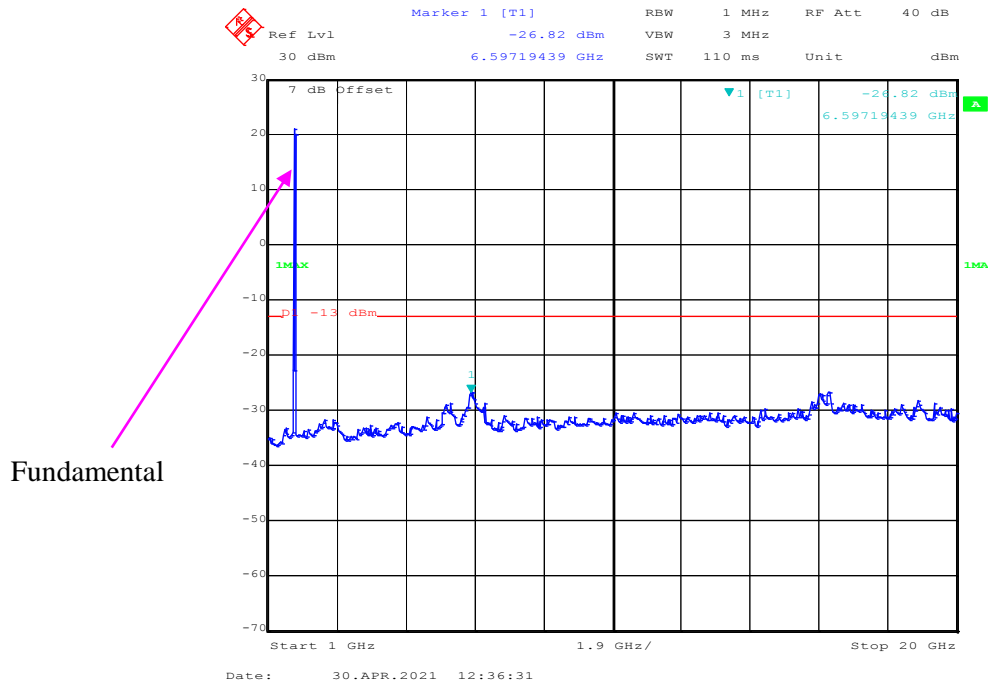
1 GHz – 20 GHz (10 MHz, 16-QAM, Middle Channel)



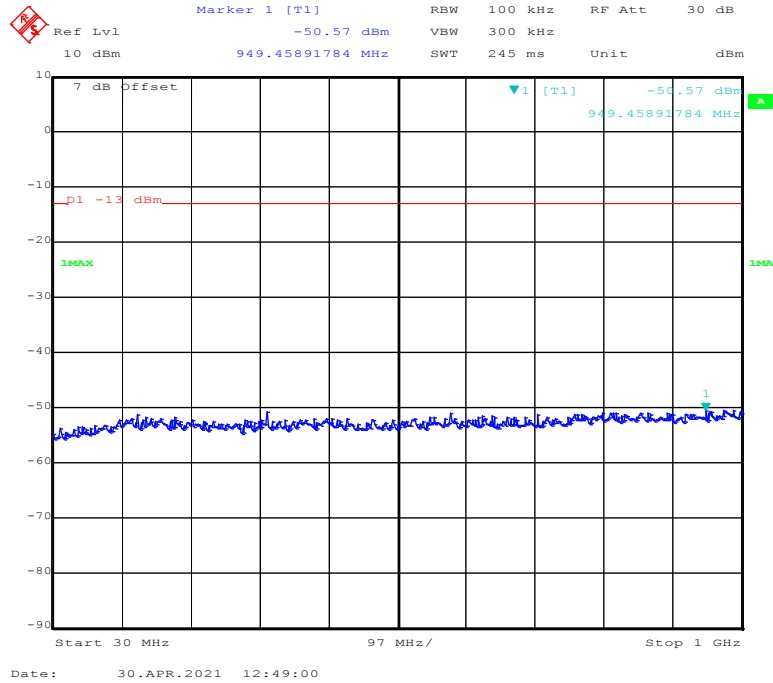
30 MHz – 1 GHz (15 MHz, QPSK, Middle Channel)



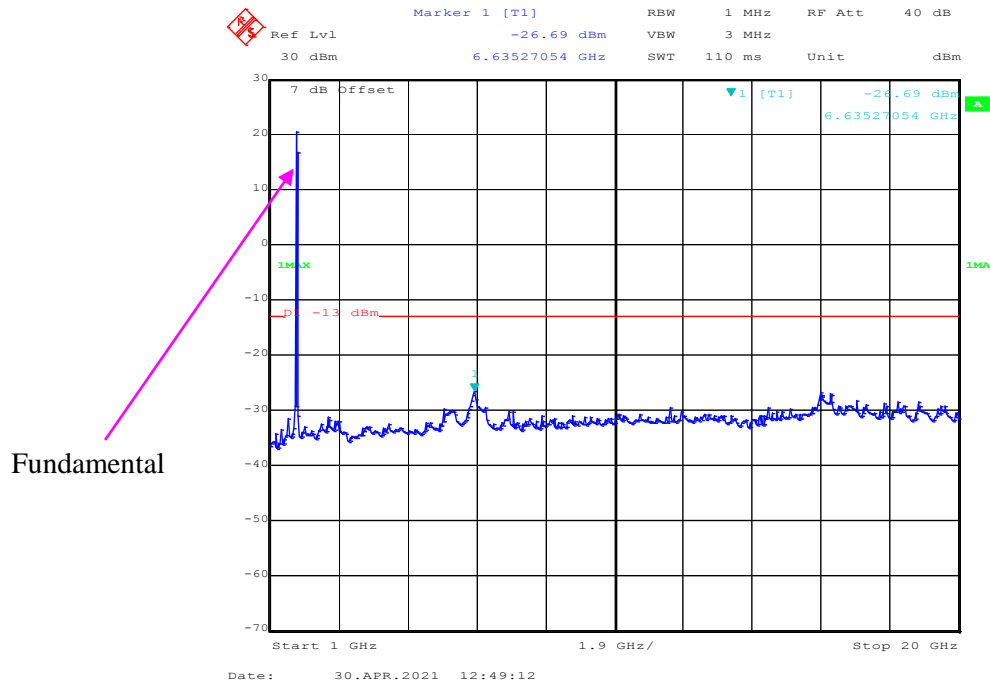
1 GHz – 20 GHz (15 MHz, QPSK, Middle Channel)



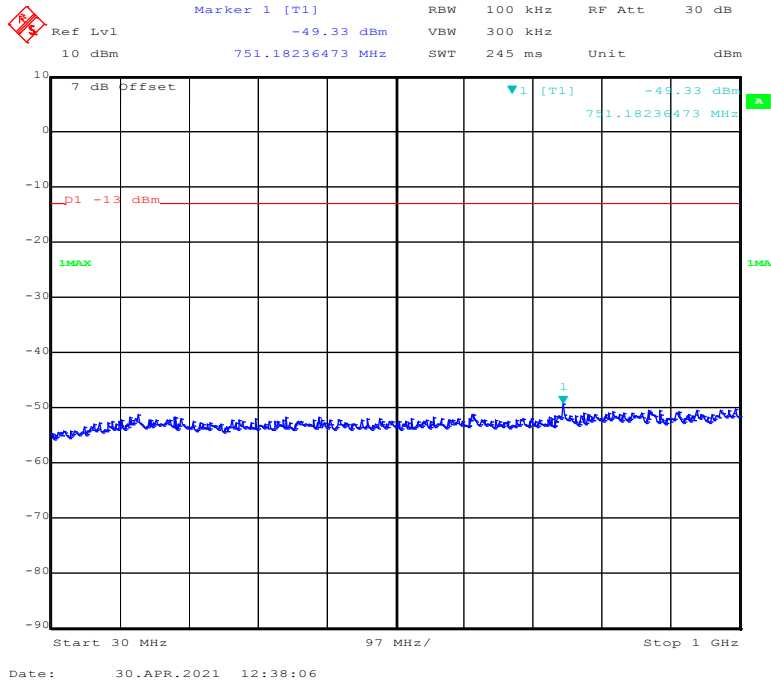
30 MHz – 1 GHz (15 MHz, 16-QAM, Middle Channel)



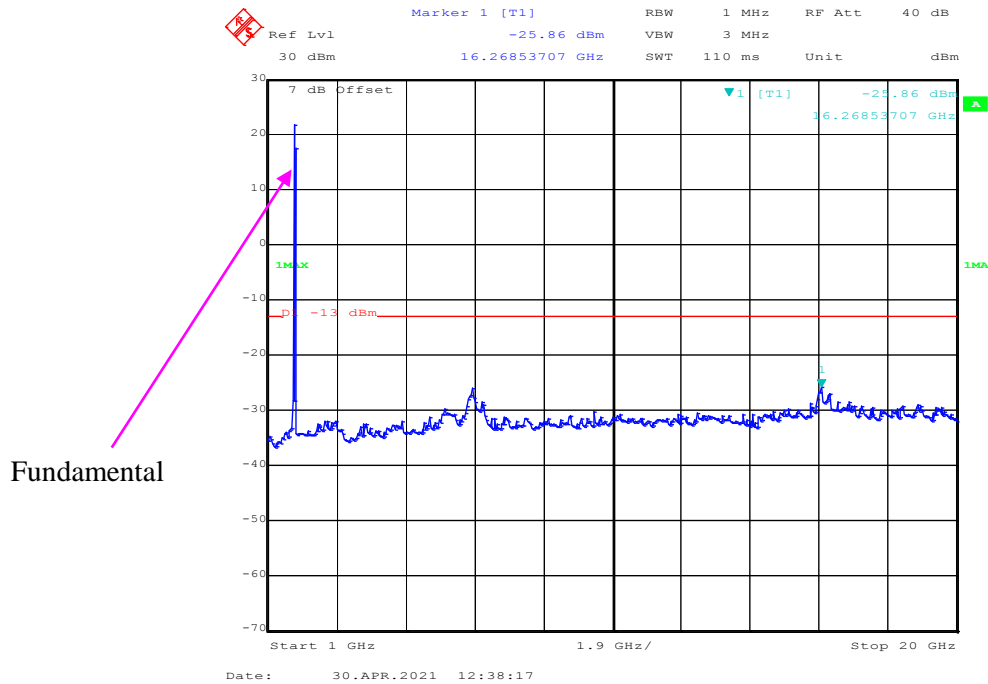
1 GHz – 20 GHz (15 MHz, 16-QAM, Middle Channel)



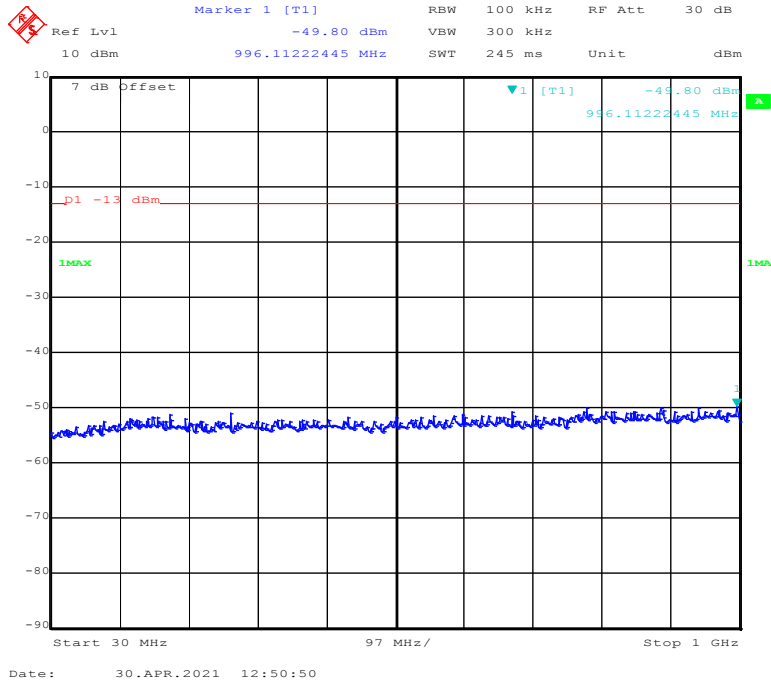
30 MHz – 1 GHz (20 MHz, QPSK, Middle Channel)



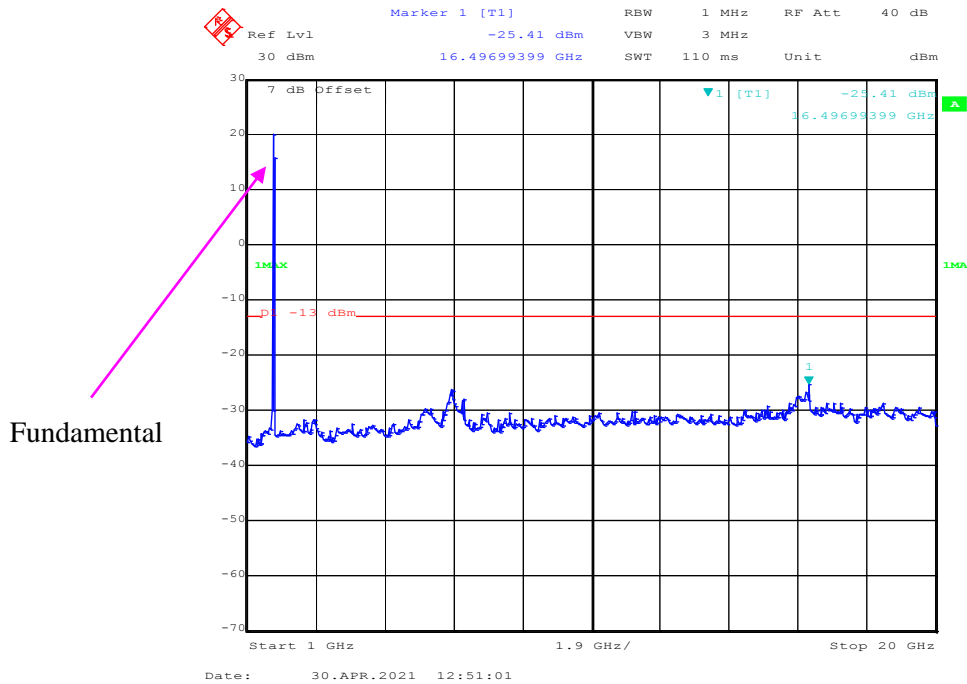
1 GHz – 20 GHz (20 MHz, QPSK, Middle Channel)



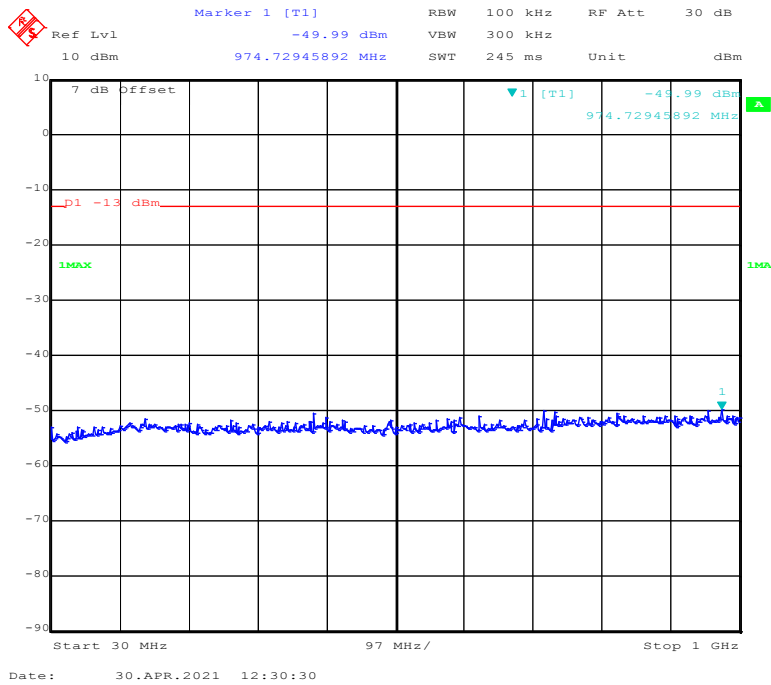
30 MHz – 1 GHz (20 MHz, 16-QAM, Middle Channel)



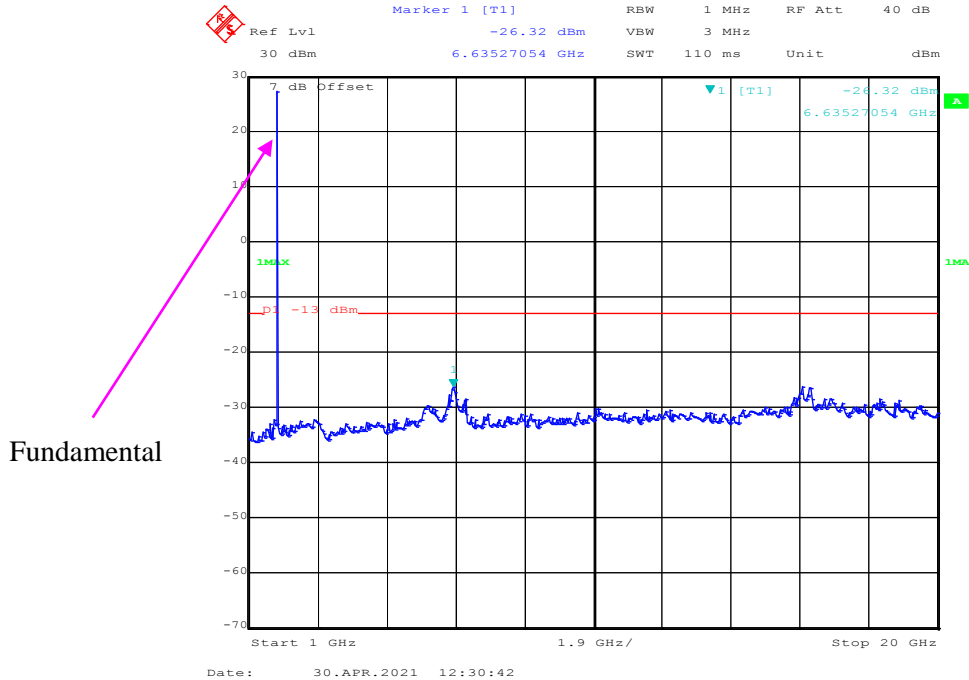
1 GHz – 20 GHz (20 MHz, 16-QAM, Middle Channel)



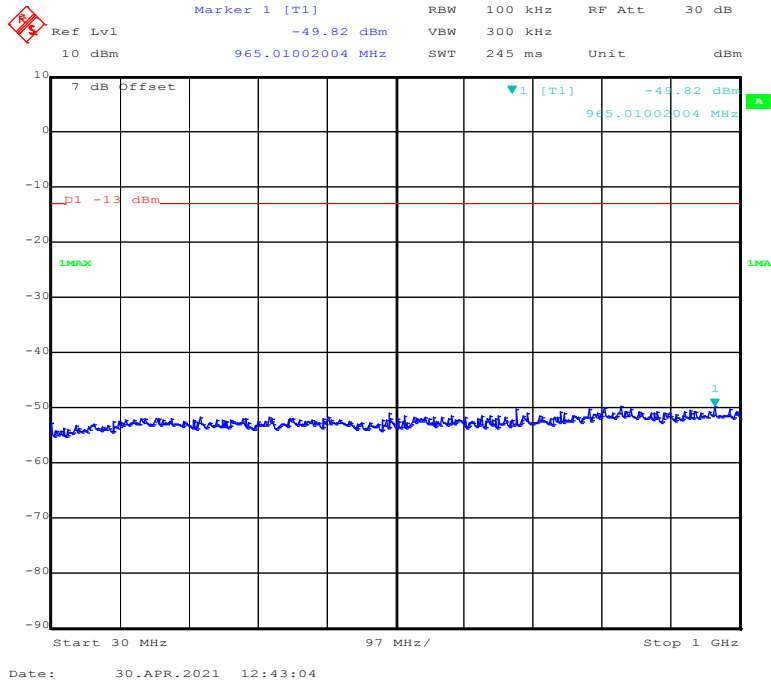
30 MHz – 1 GHz (1.4 MHz, QPSK, High Channel)



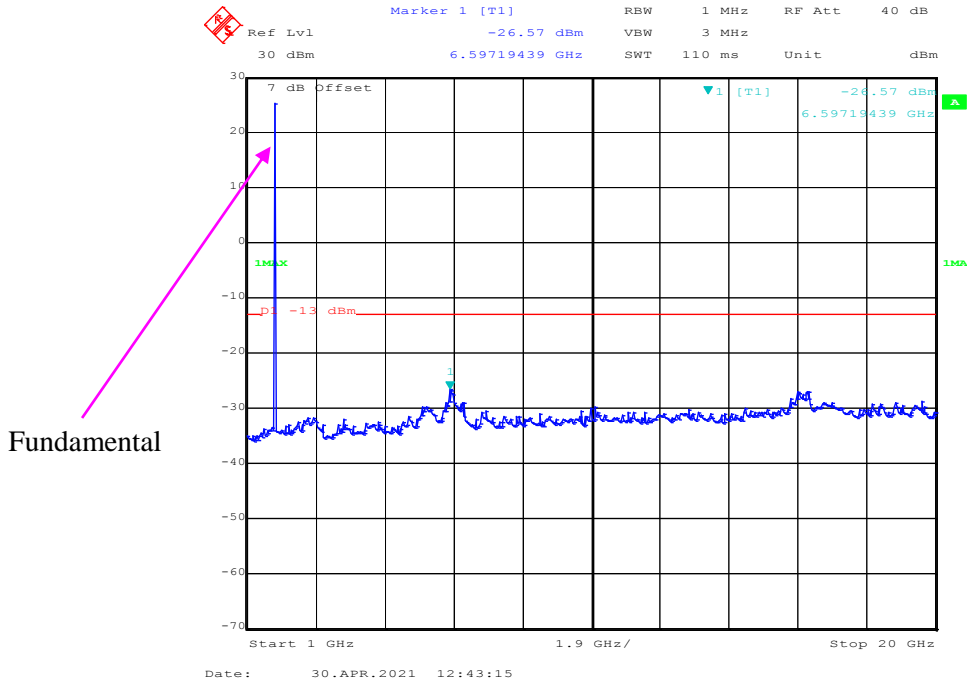
1 GHz – 20 GHz (1.4 MHz, QPSK, High Channel)



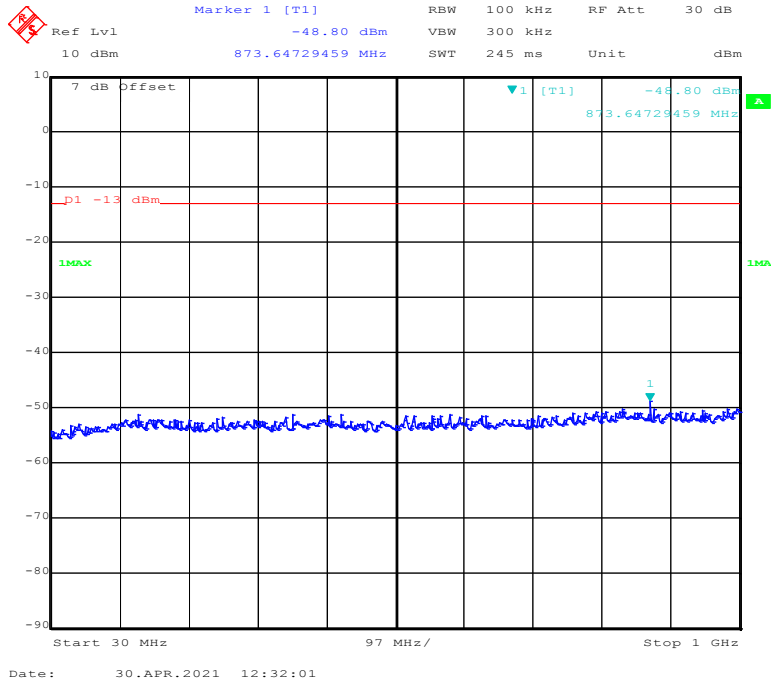
30 MHz – 1 GHz (1.4 MHz, 16-QAM, High Channel)



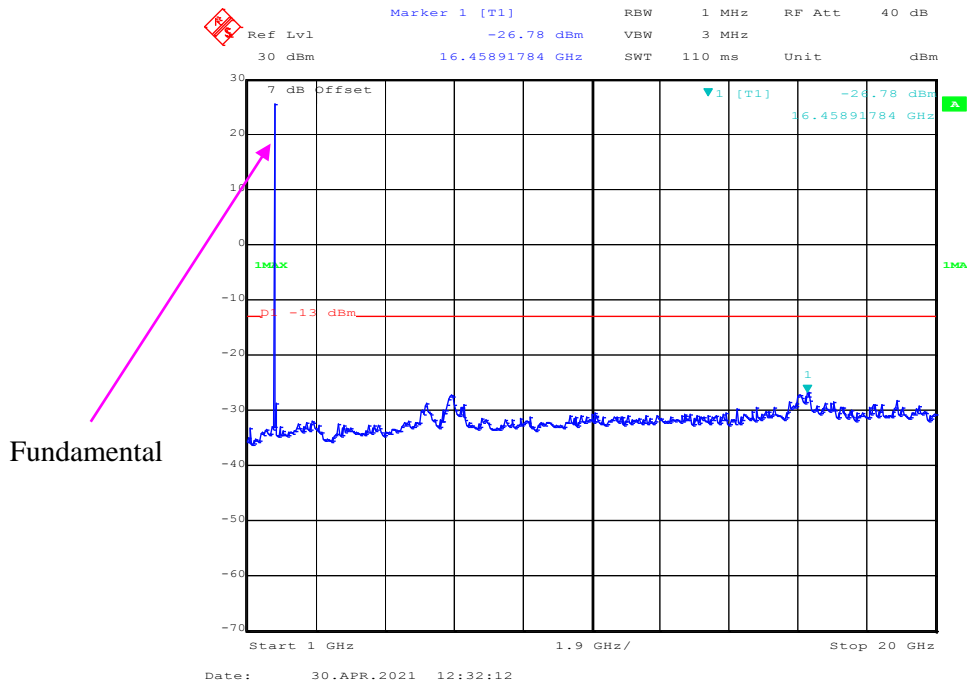
1 GHz – 20 GHz (1.4 MHz, 16-QAM, High Channel)



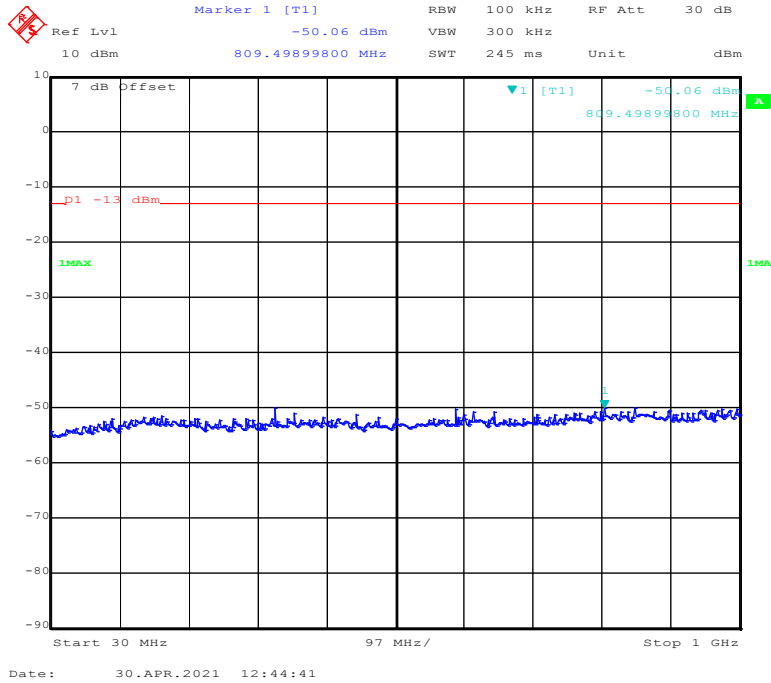
30 MHz – 1 GHz (3 MHz, QPSK, High Channel)



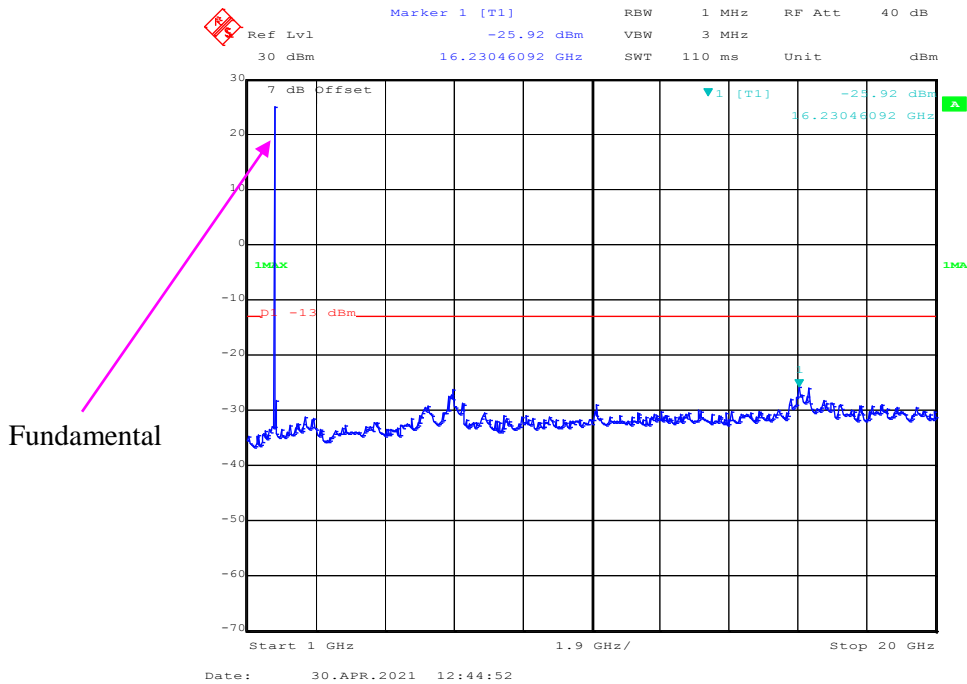
1 GHz – 20 GHz (3 MHz, QPSK, High Channel)



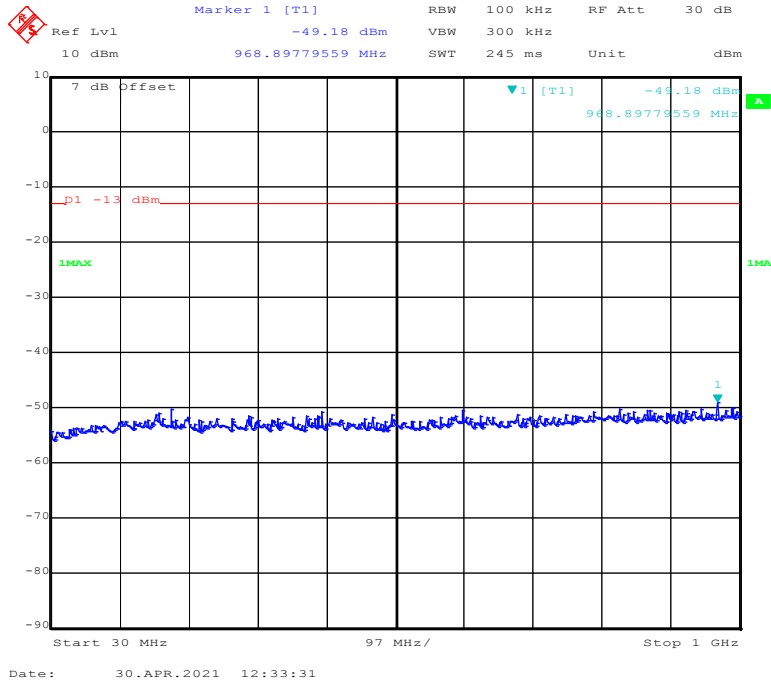
30 MHz – 1 GHz (3 MHz, 16-QAM, High Channel)



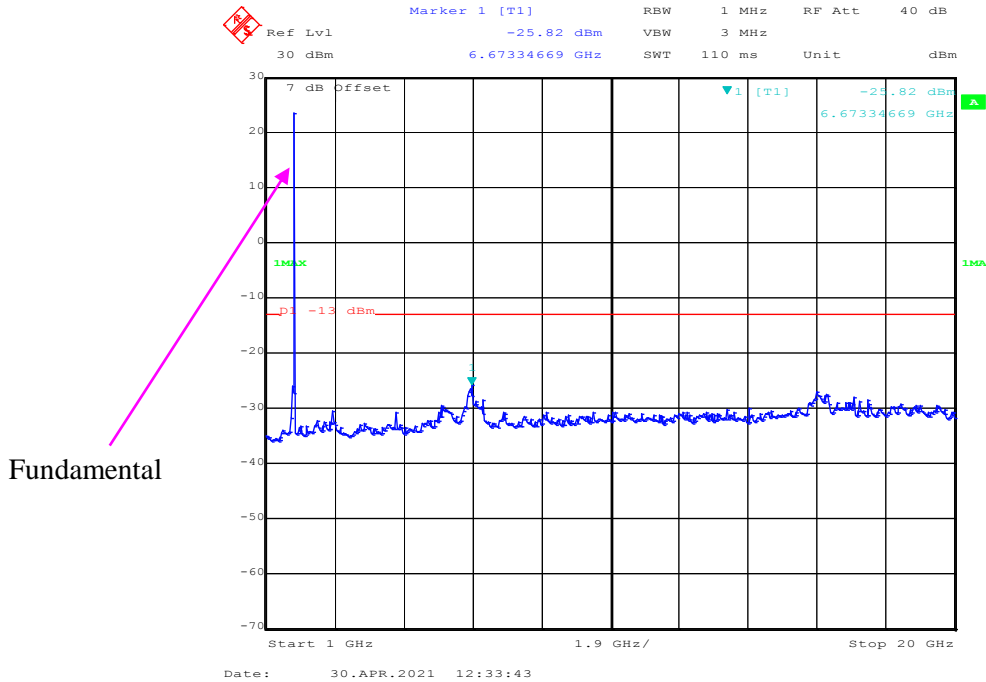
1 GHz – 20 GHz (3 MHz, 16-QAM, High Channel)



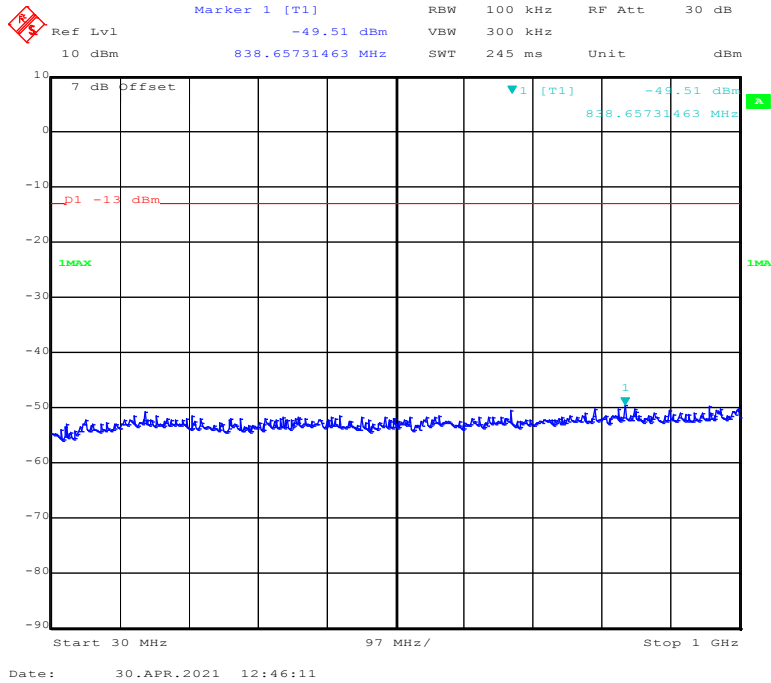
30 MHz – 1 GHz (5 MHz, QPSK, High Channel)



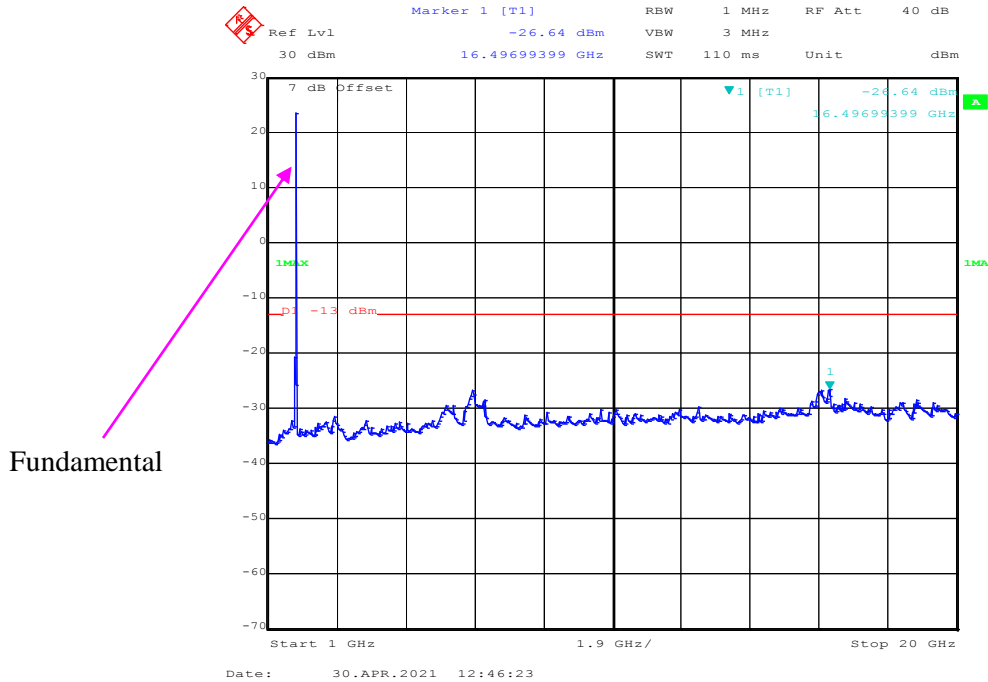
1 GHz – 20 GHz (5 MHz, QPSK, High Channel)



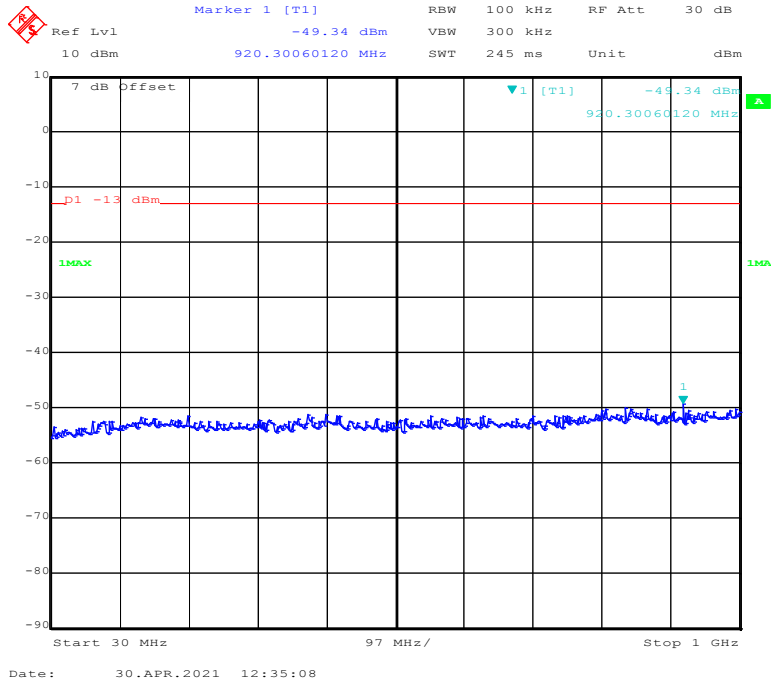
30 MHz – 1 GHz (5 MHz, 16-QAM, High Channel)



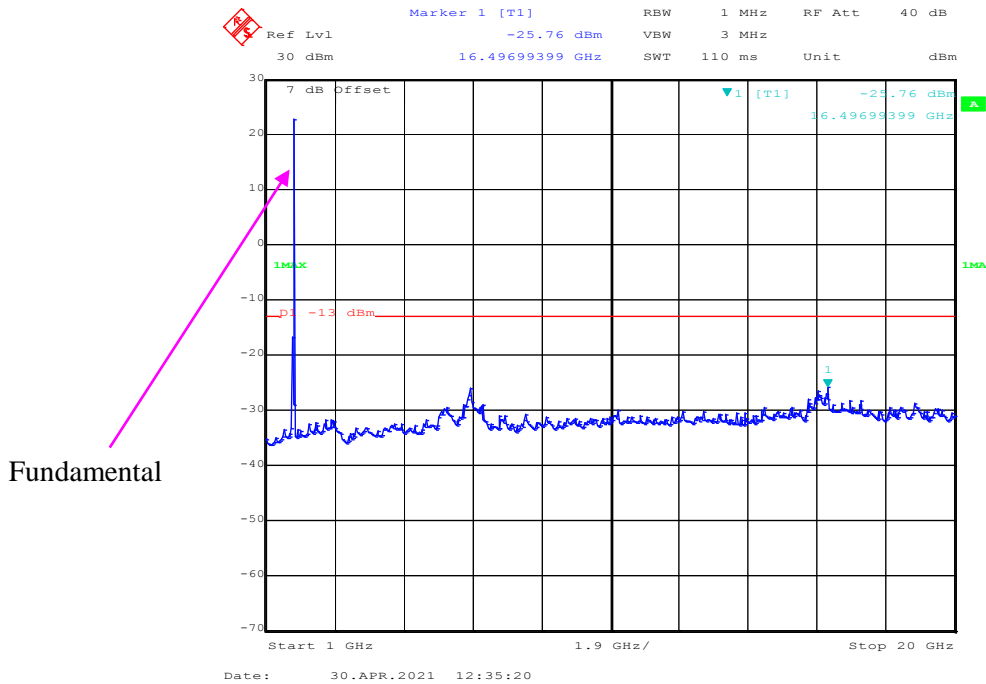
1 GHz – 20 GHz (5 MHz, 16-QAM, High Channel)



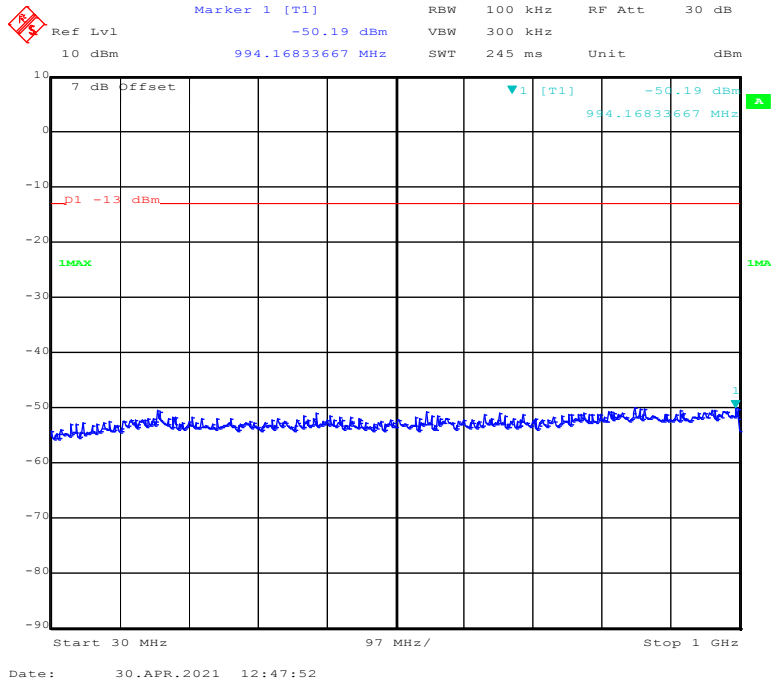
30 MHz – 1 GHz (10 MHz, QPSK, High Channel)



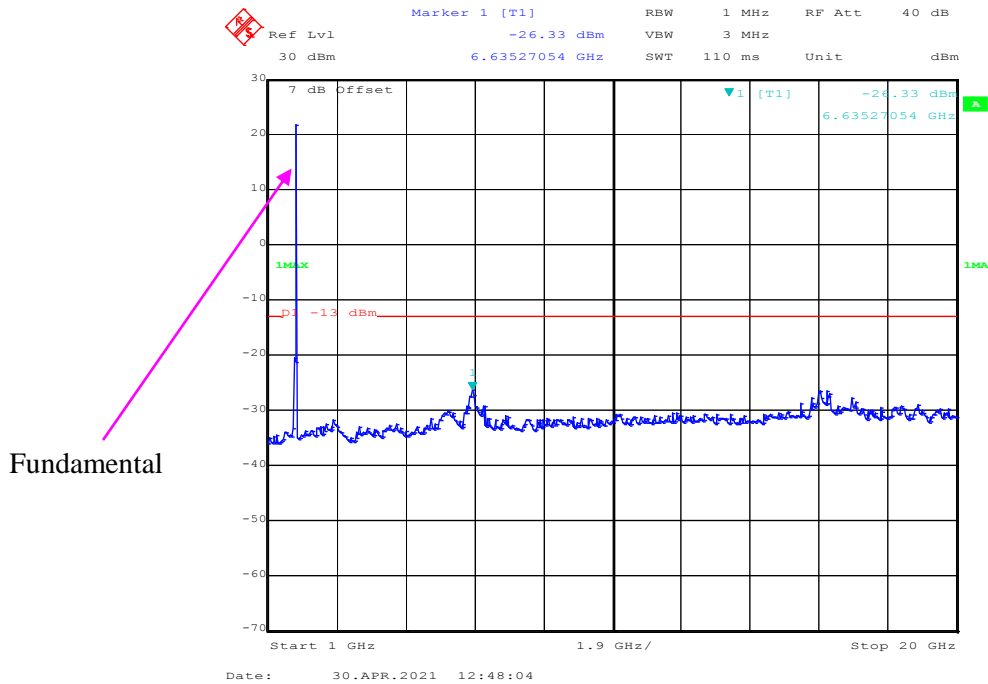
1 GHz – 20 GHz (10 MHz, QPSK, High Channel)



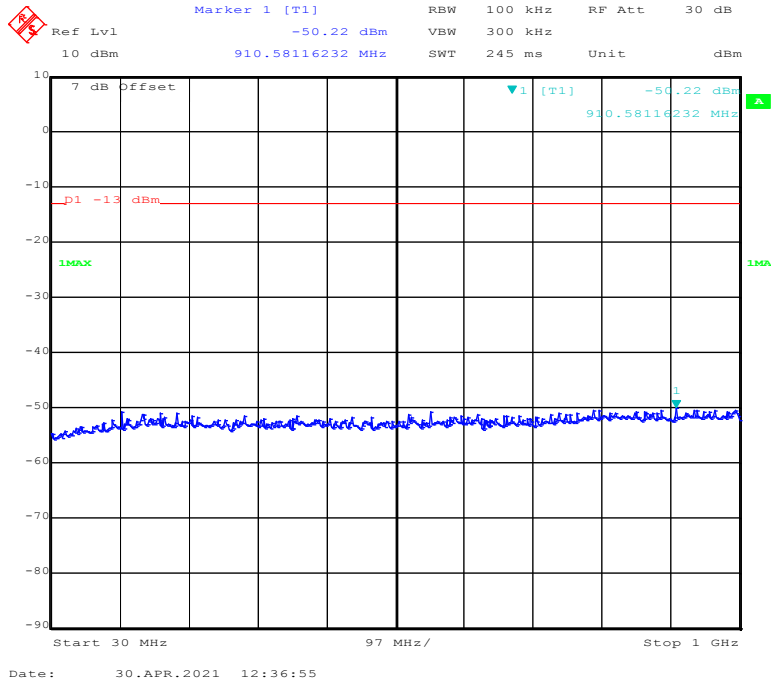
30 MHz – 1 GHz (10 MHz, 16-QAM, High Channel)



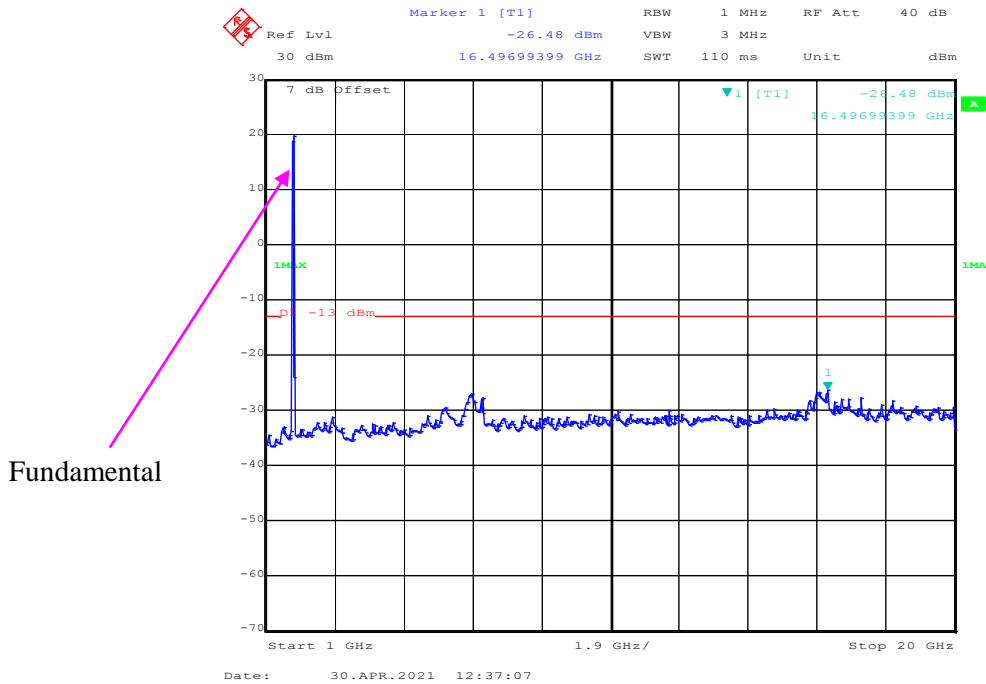
1 GHz – 20 GHz (10 MHz, 16-QAM, High Channel)



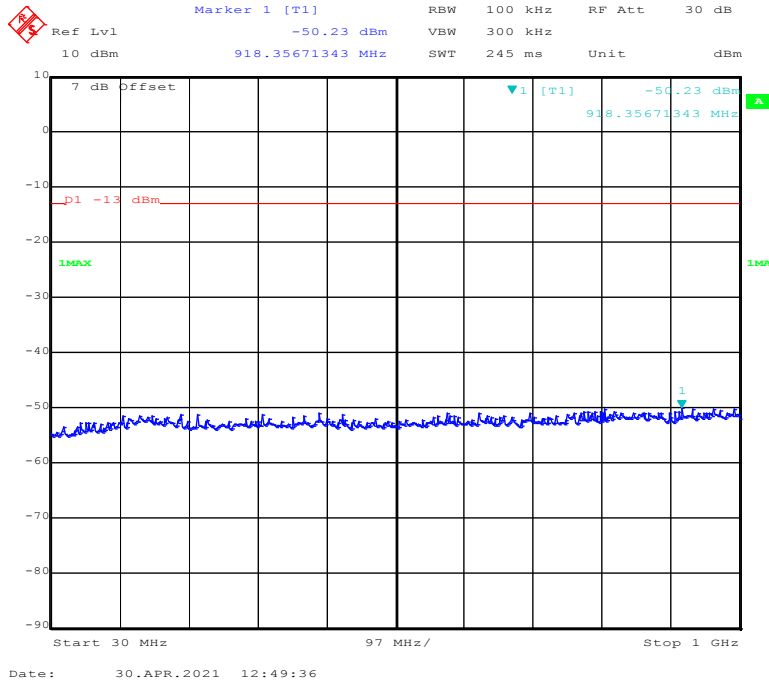
30 MHz – 1 GHz (15 MHz, QPSK, High Channel)



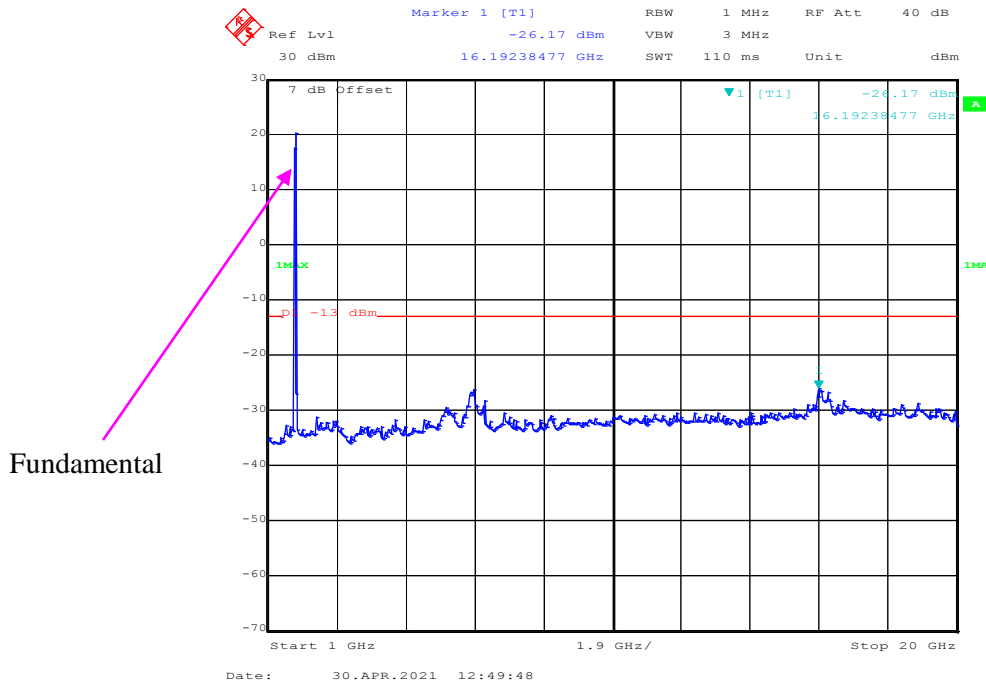
1 GHz – 20 GHz (15 MHz, QPSK, High Channel)



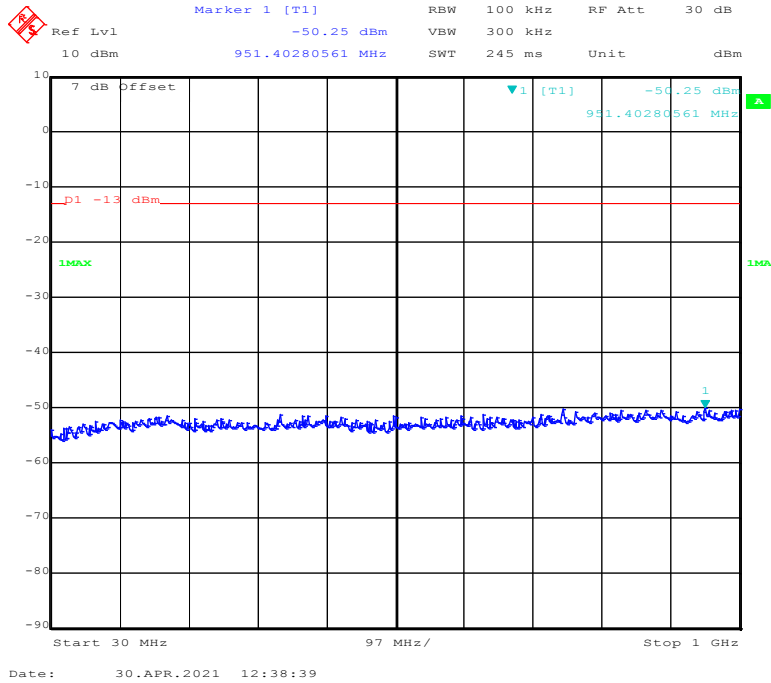
30 MHz – 1 GHz (15 MHz, 16-QAM, High Channel)



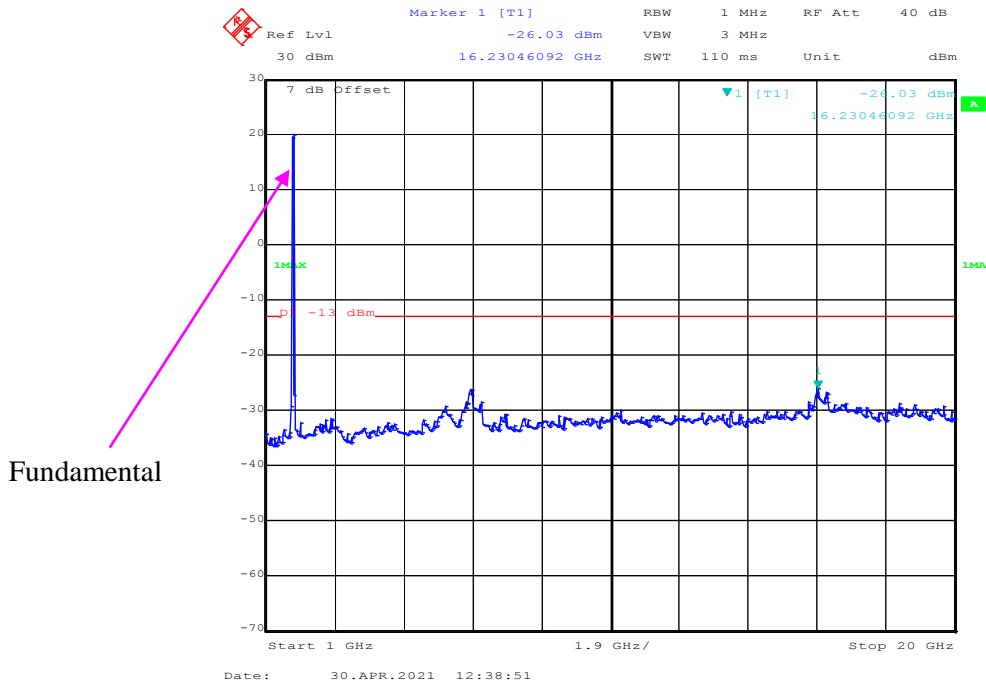
1 GHz – 20 GHz (15 MHz, 16-QAM, High Channel)



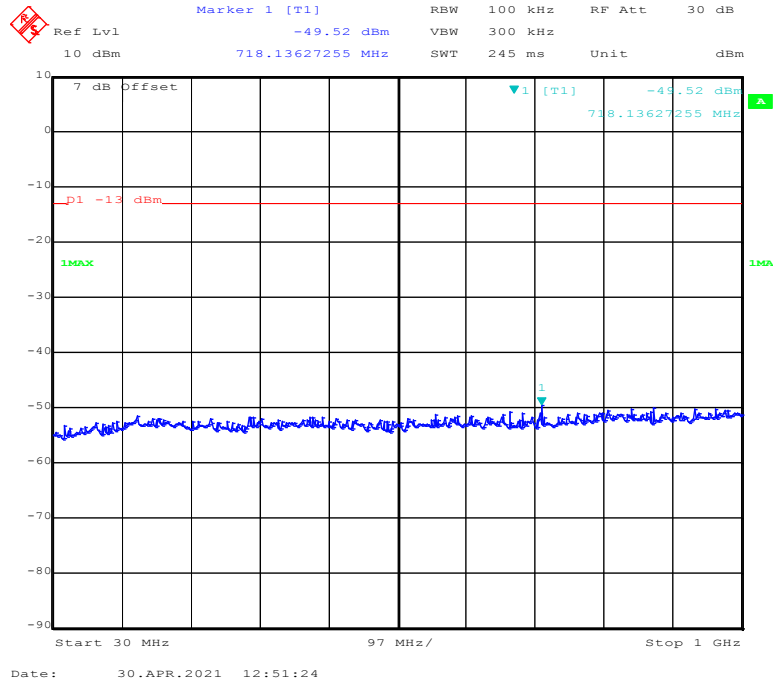
30 MHz – 1 GHz (20 MHz, QPSK, High Channel)



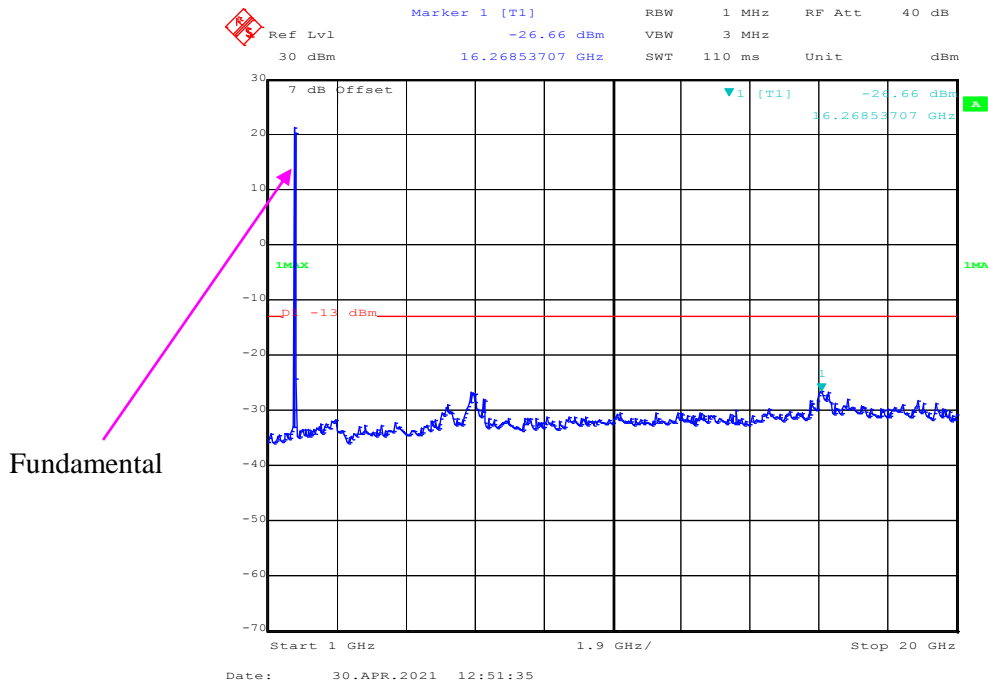
1 GHz – 20 GHz (20 MHz, QPSK, High Channel)



30 MHz – 1 GHz (20 MHz, 16-QAM, High Channel)



1 GHz – 20 GHz (20 MHz, 16-QAM, High Channel)



FCC §2.1053; § 22.917 (a); § 24.238 (a)& §27.53(a) (g) (h) (m); § 90.691 - SPURIOUS RADIATED EMISSIONS

Applicable Standards

FCC § 2.1053, §22.917(a) and § 24.238(a), §90.691 and § 27.53(a) (g) (h) (m)

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.

27.53(h) (m), 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.

Rule Part 90.691 specifies that “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.

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:	22.5~23.6 °C
Relative Humidity:	50~52 %
ATM Pressure:	100.7~101.5 kPa

The testing was performed by Tyrone Wang from 2021-05-13 to 2021-06-02.

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

30 MHz ~ 10 GHz:**GSM 850 Band**

Frequency (MHz)	Receiver Reading (dB μ V)	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)			
GPRS Mode, Low channel										
199.50	38.63	195	100	H	-66.99	0.42	-3.97	-71.38	-13	58.38
199.50	38.85	56	200	V	-66.77	0.42	-3.97	-71.16	-13	58.16
1648.40	46.14	78	150	H	-67.21	0.84	8.44	-59.61	-13	46.61
1648.40	46.32	96	150	V	-67.03	0.84	8.44	-59.43	-13	46.43
GPRS Mode, Middle channel										
199.50	37.86	100	100	H	-67.76	0.42	-3.97	-72.15	-13	59.15
199.50	38.32	21	100	V	-67.3	0.42	-3.97	-71.69	-13	58.69
1673.20	45.46	171	150	H	-67.89	0.84	8.48	-60.25	-13	47.25
1673.20	46.20	95	200	V	-67.15	0.84	8.48	-59.51	-13	46.51
GPRS Mode, High channel										
199.50	39.47	192	200	H	-66.15	0.42	-3.97	-70.54	-13	57.54
199.50	39.20	255	100	V	-66.42	0.42	-3.97	-70.81	-13	57.81
1697.60	45.80	74	150	H	-67.21	0.84	8.52	-59.53	-13	46.53
1697.60	46.65	121	150	V	-66.36	0.84	8.52	-58.68	-13	45.68

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										
335.3	43.76	211	150	H	-64.32	0.48	-1.87	-66.67	-13	53.67
335.3	43.79	29	150	V	-64.29	0.48	-1.87	-66.64	-13	53.64
1652.80	45.80	37	100	H	-67.52	0.84	8.44	-59.92	-13	46.92
1652.80	46.46	328	100	V	-66.86	0.84	8.44	-59.26	-13	46.26
WCDMA Mode, Middle channel										
335.3	43.76	185	150	H	-64.32	0.48	-1.87	-66.67	-13	53.67
335.3	44.04	96	150	V	-64.04	0.48	-1.87	-66.39	-13	53.39
1673.20	45.37	277	150	H	-67.95	0.84	8.48	-60.31	-13	47.31
1673.20	45.56	212	100	V	-67.76	0.84	8.48	-60.12	-13	47.12
WCDMA Mode, High channel										
335.3	44.08	166	150	H	-64	0.48	-1.87	-66.35	-13	53.35
335.3	45.05	212	150	V	-63.03	0.48	-1.87	-65.38	-13	52.38
1693.20	45.62	82	100	H	-67.41	0.84	8.51	-59.74	-13	46.74
1693.20	46.48	193	100	V	-66.55	0.84	8.51	-58.88	-13	45.88

30 MHz ~ 20 GHz:**PCS 1900 Band**

Frequency (MHz)	Receiver Reading (dB μ V)	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)			
GPRS Mode, Low channel										
756.04	38.20	55	150	H	-62.65	0.62	-1.47	-64.74	-13	64.74
756.04	39.46	302	150	V	-61.39	0.62	-1.47	-63.48	-13	63.48
3700.40	40.71	225	100	H	-66.26	0.95	9.78	-57.43	-13	57.43
3700.40	40.90	110	200	V	-66.07	0.95	9.78	-57.24	-13	57.24
GPRS Mode, Middle channel										
756.04	38.06	52	100	H	-62.79	0.62	-1.47	-64.88	-13	64.88
756.04	38.82	312	100	V	-62.03	0.62	-1.47	-64.12	-13	64.12
3760.00	40.65	202	150	H	-66.32	0.95	9.74	-57.53	-13	57.53
3760.00	40.88	112	150	V	-66.09	0.95	9.74	-57.30	-13	57.30
GPRS Mode, High channel										
756.04	38.57	15	100	H	-62.28	0.62	-1.47	-64.37	-13	64.37
756.04	39.73	352	200	V	-61.12	0.62	-1.47	-63.21	-13	63.21
3819.60	40.81	225	150	H	-65.78	0.96	9.71	-57.03	-13	57.03
3819.60	41.34	113	100	V	-65.25	0.96	9.71	-56.50	-13	56.50

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										
557.43	44.06	301	150	H	-60.57	0.58	-1.2	-62.35	-13	49.35
557.43	44.22	248	150	V	-60.41	0.58	-1.2	-62.19	-13	49.19
3704.80	38.24	263	200	H	-68.72	0.95	9.78	-59.89	-13	46.89
3704.80	39.13	108	100	V	-67.83	0.95	9.78	-59.00	-13	46.00
WCDMA Mode, Middle channel										
557.43	43.76	331	150	H	-60.87	0.58	-1.2	-62.65	-13	49.65
557.43	43.78	197	150	V	-60.85	0.58	-1.2	-62.63	-13	49.63
3760.0	37.68	359	200	H	-69.10	0.95	9.74	-60.31	-13	47.31
3760.00	38.61	17	100	V	-68.17	0.95	9.74	-59.38	-13	46.38
WCDMA Mode, High channel										
557.43	44.98	344	150	H	-59.65	0.58	-1.2	-61.43	-13	48.43
557.43	44.68	120	150	V	-59.95	0.58	-1.2	-61.73	-13	48.73
3815.20	38.17	123	200	H	-68.43	0.96	9.71	-59.68	-13	46.68
3815.20	39.11	351	100	V	-67.49	0.96	9.71	-58.74	-13	45.74

WCDMA Band IV

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										
711.18	44.08	74	150	H	-56.49	0.62	-1.69	-58.8	-13	45.8
711.18	44.77	266	150	V	-55.8	0.62	-1.69	-58.11	-13	45.11
3424.8	39.47	220	200	H	-68.43	0.93	9.83	-59.53	-13	46.53
3424.8	40.14	50	100	V	-67.76	0.93	9.83	-58.86	-13	45.86
WCDMA Mode, Middle channel										
711.18	43.76	41	150	H	-56.81	0.62	-1.69	-59.12	-13	46.12
711.18	44.6	354	150	V	-55.97	0.62	-1.69	-58.28	-13	45.28
3465.2	38.50	325	200	H	-69.25	0.93	9.87	-60.31	-13	47.31
3465.2	39.30	130	100	V	-68.45	0.93	9.87	-59.51	-13	46.51
WCDMA Mode, High channel										
711.18	45.04	160	150	H	-55.53	0.62	-1.69	-57.84	-13	44.84
711.18	45.25	26	150	V	-55.32	0.62	-1.69	-57.63	-13	44.63
3505.2	40.03	328	200	H	-67.57	0.93	9.9	-58.6	-13	45.6
3505.2	40.50	38	100	V	-67.1	0.93	9.9	-58.13	-13	45.13

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 worst 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										
214.75	41.14	117	100	H	-63.25	0.43	-3.45	-59.37	-13	46.37
214.75	41.39	120	200	V	-63.00	0.43	-3.45	-59.12	-13	46.12
3701.40	40.80	14	150	H	-66.16	0.95	9.78	-57.33	-13	44.33
3701.40	40.73	106	100	V	-66.23	0.95	9.78	-57.4	-13	44.40
16-QAM 1.4MHz Bandwidth Low Channel										
214.75	41.40	10	150	H	-62.99	0.43	-3.45	-59.11	-13	46.11
214.75	41.96	140	150	V	-62.43	0.43	-3.45	-58.55	-13	45.55
3701.40	41.68	267	200	H	-65.28	0.95	9.78	-56.45	-13	43.45
3701.40	41.12	213	200	V	-65.84	0.95	9.78	-57.01	-13	44.01

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										
214.75	41.04	69	100	H	-63.35	0.43	-3.45	-59.47	-13	46.47
214.75	41.96	70	100	V	-62.43	0.43	-3.45	-58.55	-13	45.55
3760.00	40.51	256	150	H	-66.27	0.95	9.74	-57.48	-13	44.48
3760.00	40.53	251	100	V	-66.25	0.95	9.74	-57.46	-13	44.46
16-QAM 1.4MHz Bandwidth Middle Channel										
214.75	41.42	234	150	H	-62.97	0.43	-3.45	-59.09	-13	46.09
214.75	41.80	153	150	V	-62.59	0.43	-3.45	-58.71	-13	45.71
3760.00	41.22	173	200	H	-65.56	0.95	9.74	-56.77	-13	43.77
3760.00	41.48	359	200	V	-65.30	0.95	9.74	-56.51	-13	43.51

Frequency (MHz)	Receiver Reading (dB μ V)	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										
214.75	41.52	57	100	H	-62.87	0.43	-3.45	-58.99	-13	45.99
214.75	41.40	304	200	V	-62.99	0.43	-3.45	-59.11	-13	46.11
3818.60	41.26	279	150	H	-65.34	0.96	9.71	-56.59	-13	43.59
3818.60	41.33	72	100	V	-65.27	0.96	9.71	-56.52	-13	43.52
16-QAM 1.4MHz Bandwidth High Channel										
214.75	42.02	44	150	H	-62.37	0.43	-3.45	-58.49	-13	45.49
214.75	42.23	155	150	V	-62.16	0.43	-3.45	-58.28	-13	45.28
3818.60	42.11	217	200	H	-64.49	0.96	9.71	-55.74	-13	42.74
3818.60	41.25	330	200	V	-65.35	0.96	9.71	-56.6	-13	43.60

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										
213.81	41.22	173	100	H	-63.25	0.43	-3.48	-59.34	-13	46.34
213.81	41.60	250	200	V	-62.87	0.43	-3.48	-58.96	-13	45.96
3421.40	43.08	201	150	H	-64.86	0.93	9.82	-55.97	-13	42.97
3421.40	43.98	320	100	V	-63.96	0.93	9.82	-55.07	-13	42.07
16-QAM 1.4MHz Bandwidth Low Channel										
213.81	41.28	85	150	H	-63.19	0.43	-3.48	-59.28	-13	46.28
213.81	41.59	295	150	V	-62.88	0.43	-3.48	-58.97	-13	45.97
3421.40	44.56	24	200	H	-63.38	0.93	9.82	-54.49	-13	41.49
3421.40	43.57	87	200	V	-64.37	0.93	9.82	-55.48	-13	42.48

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										
213.81	41.04	312	100	H	-63.43	0.43	-3.48	-59.52	-13	46.52
213.81	41.29	81	200	V	-63.18	0.43	-3.48	-59.27	-13	46.27
3465.00	42.65	37	150	H	-65.10	0.93	9.87	-56.16	-13	43.16
3465.00	42.83	25	100	V	-64.92	0.93	9.87	-55.98	-13	42.98
16-QAM 1.4MHz Bandwidth Middle Channel										
213.81	41.89	186	150	H	-62.58	0.43	-3.48	-58.67	-13	45.67
213.81	41.29	56	150	V	-63.18	0.43	-3.48	-59.27	-13	46.27
3465.00	42.77	274	200	H	-64.98	0.93	9.87	-56.04	-13	43.04
3465.00	43.04	158	200	V	-64.71	0.93	9.87	-55.77	-13	42.77

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										
213.81	41.64	34	100	H	-62.83	0.43	-3.48	-58.92	-13	45.92
213.81	41.90	176	200	V	-62.57	0.43	-3.48	-58.66	-13	45.66
3508.60	43.35	308	150	H	-64.22	0.93	9.90	-55.25	-13	42.25
3508.60	43.77	170	100	V	-63.80	0.93	9.90	-54.83	-13	41.83
16-QAM 1.4MHz Bandwidth High Channel										
213.81	42.79	278	150	H	-61.68	0.43	-3.48	-57.77	-13	44.77
213.81	41.51	203	150	V	-62.96	0.43	-3.48	-59.05	-13	46.05
3508.60	44.86	125	200	H	-62.71	0.93	9.90	-53.74	-13	40.74
3508.60	43.80	324	200	V	-63.77	0.93	9.90	-54.80	-13	41.80

30 MHz ~ 10 GHz:

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										
222.78	45.01	129	100	H	-58.70	0.43	-3.18	-55.09	-13	42.09
222.78	44.94	57	200	V	-58.77	0.43	-3.18	-55.16	-13	42.16
1649.40	40.14	263	150	H	-73.20	0.84	8.44	-65.60	-13	52.60
1649.40	41.25	19	100	V	-72.09	0.84	8.44	-64.49	-13	51.49
16-QAM 1.4MHz Bandwidth Low Channel										
222.78	45.18	81	150	H	-58.53	0.43	-3.18	-54.92	-13	41.92
222.78	44.75	103	150	V	-58.96	0.43	-3.18	-55.35	-13	42.35
1649.40	42.09	80	200	H	-71.25	0.84	8.44	-63.65	-13	50.65
1649.40	40.96	123	200	V	-72.38	0.84	8.44	-64.78	-13	51.78

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										
222.78	44.63	125	100	H	-59.08	0.43	-3.18	-55.47	-13	42.47
222.78	44.87	38	200	V	-58.84	0.43	-3.18	-55.23	-13	42.23
1673.00	39.81	91	150	H	-73.58	0.84	8.48	-65.94	-13	52.94
1673.00	40.27	315	100	V	-73.12	0.84	8.48	-65.48	-13	52.48
16-QAM 1.4MHz Bandwidth Middle Channel										
222.78	44.78	278	150	H	-58.93	0.43	-3.18	-55.32	-13	42.32
222.78	45.36	206	150	V	-58.35	0.43	-3.18	-54.74	-13	41.74
1673.00	39.94	42	200	H	-73.45	0.84	8.48	-65.81	-13	52.81
1673.00	40.95	83	200	V	-72.44	0.84	8.48	-64.8	-13	51.80

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										
222.78	45.48	171	100	H	-58.23	0.43	-3.18	-54.62	-13	41.62
222.78	45.26	268	200	V	-58.45	0.43	-3.18	-54.84	-13	41.84
1696.60	40.64	271	150	H	-72.37	0.84	8.51	-64.70	-13	51.70
1696.60	40.96	68	100	V	-72.05	0.84	8.51	-64.38	-13	51.38
16-QAM 1.4MHz Bandwidth High Channel										
222.78	44.95	231	150	H	-58.76	0.43	-3.18	-55.15	-13	42.15
222.78	45.54	263	150	V	-58.17	0.43	-3.18	-54.56	-13	41.56
1696.60	41.85	168	200	H	-71.16	0.84	8.51	-63.49	-13	50.49
1696.60	40.72	172	200	V	-72.29	0.84	8.51	-64.62	-13	51.62

30MHz~26.5GHz:

LTE Band 7:

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										
222.66	44.79	253	200	H	-58.93	0.43	-3.18	-55.32	-25	30.32
222.66	45.07	300	200	V	-58.65	0.43	-3.18	-55.04	-25	30.04
5005.00	41.83	277	100	H	-64.16	1.08	10.30	-54.94	-25	29.94
5005.00	42.45	310	150	V	-63.54	1.08	10.30	-54.32	-25	29.32
16-QAM 5MHz Bandwidth Low Channel										
222.66	44.91	21	100	H	-58.81	0.43	-3.18	-55.20	-25	30.20
222.66	44.75	136	150	V	-58.97	0.43	-3.18	-55.36	-25	30.36
5005.00	42.75	93	150	H	-63.24	1.08	10.30	-54.02	-25	29.02
5005.00	41.86	183	200	V	-64.13	1.08	10.30	-54.91	-25	29.91

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										
222.66	44.34	50	200	H	-59.38	0.43	-3.18	-55.77	-25	30.77
222.66	44.49	83	200	V	-59.23	0.43	-3.18	-55.62	-25	30.62
5070.00	41.39	163	100	H	-64.60	1.09	10.30	-55.39	-25	30.39
5070.00	42.00	324	150	V	-63.99	1.09	10.30	-54.78	-25	29.78
16-QAM 5MHz Bandwidth Middle Channel										
222.66	45.33	241	100	H	-58.39	0.43	-3.18	-54.78	-25	29.78
222.66	45.32	241	150	V	-58.40	0.43	-3.18	-54.79	-25	29.79
5070.00	41.96	118	150	H	-64.03	1.09	10.30	-54.82	-25	29.82
5070.00	42.53	103	200	V	-63.46	1.09	10.30	-54.25	-25	29.25

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 5MHz Bandwidth High Channel										
222.66	45.21	77	200	H	-58.51	0.43	-3.18	-54.90	-25	29.90
222.66	45.39	95	200	V	-58.33	0.43	-3.18	-54.72	-25	29.72
5135.00	41.36	233	100	H	-63.91	1.1	10.30	-54.71	-25	29.71
5135.00	42.16	127	150	V	-63.11	1.1	10.30	-53.91	-25	28.91
16-QAM 5MHz Bandwidth High Channel										
222.66	45.35	213	100	H	-58.37	0.43	-3.18	-54.76	-25	29.76
222.66	45.86	243	150	V	-57.86	0.43	-3.18	-54.25	-25	29.25
5135.00	42.40	281	150	H	-62.87	1.1	10.30	-53.67	-25	28.67
5135.00	41.90	218	200	V	-63.37	1.1	10.30	-54.17	-25	29.17

30MHz~10GHz:

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										
223.63	44.40	68	100	H	-59.24	0.43	-3.15	-55.66	-13	42.66
223.63	43.98	171	200	V	-59.66	0.43	-3.15	-56.08	-13	43.08
1399.40	52.63	305	150	H	-61.54	0.82	7.92	-54.44	-13	41.44
1399.40	53.86	321	100	V	-60.31	0.82	7.92	-53.21	-13	40.21
16-QAM 1.4MHz Bandwidth Low Channel										
223.63	44.10	51	150	H	-59.54	0.43	-3.15	-55.96	-13	42.96
223.63	44.62	288	150	V	-59.02	0.43	-3.15	-55.44	-13	42.44
1399.40	54.22	251	200	H	-59.95	0.82	7.92	-52.85	-13	39.85
1399.40	53.45	53	200	V	-60.72	0.82	7.92	-53.62	-13	40.62

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										
223.63	43.58	77	100	H	-60.06	0.43	-3.15	-56.48	-13	43.48
223.63	43.81	157	200	V	-59.83	0.43	-3.15	-56.25	-13	43.25
1415.00	51.67	307	150	H	-62.53	0.82	7.96	-55.39	-13	42.39
1415.00	52.48	349	100	V	-61.72	0.82	7.96	-54.58	-13	41.58
16-QAM 1.4MHz Bandwidth Middle Channel										
223.63	43.66	183	150	H	-59.98	0.43	-3.15	-56.4	-13	43.40
223.63	44.18	61	150	V	-59.46	0.43	-3.15	-55.88	-13	42.88
1415.00	52.31	210	200	H	-61.89	0.82	7.96	-54.75	-13	41.75
1415.00	53.19	331	200	V	-61.01	0.82	7.96	-53.87	-13	40.87

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										
223.63	43.77	73	100	H	-59.87	0.43	-3.15	-56.29	-13	43.29
223.63	44.18	200	200	V	-59.46	0.43	-3.15	-55.88	-13	42.88
1430.60	52.54	62	150	H	-61.69	0.82	8	-54.51	-13	41.51
1430.60	52.88	135	100	V	-61.35	0.82	8	-54.17	-13	41.17
16-QAM 1.4MHz Bandwidth High Channel										
223.63	43.84	181	150	H	-59.80	0.43	-3.15	-56.22	-13	43.22
223.63	44.29	104	150	V	-59.35	0.43	-3.15	-55.77	-13	42.77
1430.60	53.22	76	200	H	-61.01	0.82	8	-53.83	-13	40.83
1430.60	53.28	141	200	V	-60.95	0.82	8	-53.77	-13	40.77

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										
219.99	43.96	352	100	H	-59.99	0.43	-3.27	-63.69	-13	50.69
219.99	43.82	273	200	V	-60.13	0.43	-3.27	-63.83	-13	50.83
1413.00	47.64	218	150	H	-67.33	0.83	8.06	-60.10	-13	47.10
1413.00	48.71	264	100	V	-66.26	0.83	8.06	-59.03	-13	46.03
16-QAM 5MHz Bandwidth Low Channel										
219.99	44.33	302	100	H	-59.62	0.43	-3.27	-63.32	-13	50.32
219.99	44.87	305	200	V	-59.08	0.43	-3.27	-62.78	-13	49.78
1413.00	49.18	206	200	H	-65.79	0.83	8.06	-58.56	-13	45.56
1413.00	47.93	113	200	V	-67.04	0.83	8.06	-59.81	-13	46.81

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										
219.99	43.67	118	100	H	-60.28	0.43	-3.27	-63.98	-13	50.98
219.99	44.36	320	200	V	-59.59	0.43	-3.27	-63.29	-13	50.29
1420.00	46.85	335	150	H	-68.07	0.83	8.07	-60.83	-13	47.83
1420.00	46.89	216	100	V	-68.03	0.83	8.07	-60.79	-13	47.79
16-QAM 5MHz Bandwidth Middle Channel										
219.99	43.79	162	100	H	-60.16	0.43	-3.27	-63.86	-13	50.86
219.99	44.09	197	200	V	-59.86	0.43	-3.27	-63.56	-13	50.56
1420.00	47.17	137	200	H	-67.75	0.83	8.07	-60.51	-13	47.51
1420.00	47.13	72	200	V	-67.79	0.83	8.07	-60.55	-13	47.55

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										
219.99	43.74	117	100	H	-60.21	0.43	-3.27	-63.91	-13	50.91
219.99	44.60	70	200	V	-59.35	0.43	-3.27	-63.05	-13	50.05
1427.00	46.83	8	150	H	-68.05	0.83	8.08	-60.80	-13	47.80
1427.00	47.79	305	100	V	-67.09	0.83	8.08	-59.84	-13	46.84
16-QAM 5MHz Bandwidth High Channel										
219.99	44.31	339	100	H	-59.64	0.43	-3.27	-63.34	-13	50.34
219.99	44.32	117	200	V	-59.63	0.43	-3.27	-63.33	-13	50.33
1427.00	48.26	128	200	H	-66.62	0.83	8.08	-59.37	-13	46.37
1427.00	47.35	136	200	V	-67.53	0.83	8.08	-60.28	-13	47.28

30 MHz ~ 20 GHz:

LTE Band 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 Low Channel										
215.63	42.06	267	100	H	-62.25	0.43	-3.42	-66.1	-13	53.10
215.63	43.12	346	200	V	-61.19	0.43	-3.42	-65.04	-13	52.04
3611.40	43.01	249	150	H	-64.24	0.94	9.83	-55.35	-13	42.35
3611.40	43.64	1	100	V	-63.61	0.94	9.83	-54.72	-13	41.72
16-QAM 1.4MHz Bandwidth Low Channel										
215.63	42.37	141	100	H	-61.94	0.43	-3.42	-65.79	-13	52.79
215.63	42.84	143	200	V	-61.47	0.43	-3.42	-65.32	-13	52.32
3611.40	44.49	317	200	H	-62.76	0.94	9.83	-53.87	-13	40.87
3611.40	43.99	85	200	V	-63.26	0.94	9.83	-54.37	-13	41.37

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										
215.63	41.69	162	100	H	-62.62	0.43	-3.42	-66.47	-13	53.47
215.63	42.13	22	200	V	-62.18	0.43	-3.42	-66.03	-13	53.03
3765.00	42.44	321	150	H	-64.32	0.95	9.74	-55.53	-13	42.53
3765.00	42.90	287	100	V	-63.86	0.95	9.74	-55.07	-13	42.07
16-QAM 1.4MHz Bandwidth Middle Channel										
215.63	41.94	243	100	H	-62.37	0.43	-3.42	-66.22	-13	53.22
215.63	42.37	44	200	V	-61.94	0.43	-3.42	-65.79	-13	52.79
3765.00	42.92	156	200	H	-63.84	0.95	9.74	-55.05	-13	42.05
3765.00	43.02	29	200	V	-63.74	0.95	9.74	-54.95	-13	41.95

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										
215.63	42.16	108	100	H	-62.15	0.43	-3.42	-66.00	-13	53.00
215.63	42.32	355	200	V	-61.99	0.43	-3.42	-65.84	-13	52.84
3828.60	42.40	140	150	H	-64.16	0.96	9.7	-55.42	-13	42.42
3828.60	42.84	224	100	V	-63.72	0.96	9.7	-54.98	-13	41.98
16-QAM 1.4MHz Bandwidth High Channel										
215.63	42.51	349	100	H	-61.80	0.43	-3.42	-65.65	-13	52.65
215.63	42.55	163	200	V	-61.76	0.43	-3.42	-65.61	-13	52.61
3828.60	43.01	183	200	H	-63.55	0.96	9.7	-54.81	-13	41.81
3828.60	42.50	351	200	V	-64.06	0.96	9.7	-55.32	-13	42.32

30 MHz ~ 10 GHz:

LTE Band 26:

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										
221.71	44.15	137	100	H	-59.65	0.43	-3.21	-63.29	-13	50.29
221.71	44.56	137	200	V	-59.24	0.43	-3.21	-62.88	-13	49.88
1629.40	39.92	193	100	H	-73.55	0.84	8.41	-65.98	-13	52.98
1629.40	41.29	234	150	V	-72.18	0.84	8.41	-64.61	-13	51.61
16-QAM 1.4MHz Bandwidth Low Channel										
221.71	43.55	352	100	H	-60.25	0.43	-3.21	-63.89	-13	50.89
221.71	45.15	197	150	V	-58.65	0.43	-3.21	-40.35	-13	27.35
1629.40	42.06	156	150	H	-71.41	0.84	8.41	-63.84	-13	50.84
1629.40	40.85	227	200	V	-72.62	0.84	8.41	-65.05	-13	52.05

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										
221.71	43.33	7	100	H	-60.47	0.43	-3.21	-64.11	-13	51.11
221.71	44.27	135	200	V	-59.53	0.43	-3.21	-63.17	-13	50.17
1663.00	38.77	116	100	H	-74.47	0.84	8.46	-66.85	-13	53.85
1663.00	39.56	333	150	V	-73.68	0.84	8.46	-66.06	-13	53.06
16-QAM 1.4MHz Bandwidth Middle Channel										
221.71	43.54	36	100	H	-60.26	0.43	-3.21	-63.90	-13	50.90
221.71	44.16	119	200	V	-59.64	0.43	-3.21	-63.28	-13	50.28
1663.00	39.66	262	150	H	-73.58	0.84	8.46	-65.96	-13	52.96
1663.00	40.42	232	200	V	-72.82	0.84	8.46	-65.20	-13	52.20

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										
221.71	43.90	305	100	H	-59.90	0.43	-3.21	-63.54	-13	50.54
221.71	44.27	344	200	V	-59.53	0.43	-3.21	-63.17	-13	50.17
1696.60	39.09	317	100	H	-73.92	0.84	8.51	-66.25	-13	53.25
1696.60	39.85	224	150	V	-73.16	0.84	8.51	-65.49	-13	52.49
16-QAM 1.4MHz Bandwidth High Channel										
221.71	44.33	111	100	H	-59.47	0.43	-3.21	-63.11	-13	50.11
221.71	43.59	5	200	V	-60.21	0.43	-3.21	-63.85	-13	50.85
1696.60	40.66	6	150	H	-72.35	0.84	8.51	-64.68	-13	51.68
1696.60	39.81	140	200	V	-73.20	0.84	8.51	-65.53	-13	52.53

LTE Band 40:

2305-2315MHz

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										
221.69	45.12	60	150	H	-58.68	0.43	-3.21	-55.04	-40	15.04
221.69	44.94	35	200	V	-58.86	0.43	-3.21	-55.22	-40	15.22
4615.00	41.55	268	100	H	-65.37	1.03	9.99	-56.41	-40	16.41
4615.00	42.81	142	100	V	-64.11	1.03	9.99	-55.15	-40	15.15
16-QAM 5MHz Bandwidth Low Channel										
221.69	45.05	0	200	H	-58.75	0.43	-3.21	-55.11	-40	15.11
221.69	45.67	171	150	V	-58.13	0.43	-3.21	-54.49	-40	14.49
4615.00	43.20	149	150	H	-63.72	1.03	9.99	-54.76	-40	14.76
4615.00	42.51	123	100	V	-64.41	1.03	9.99	-55.45	-40	15.45

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 5MHz Bandwidth Middle Channel										
221.69	44.88	337	150	H	-58.92	0.43	-3.21	-55.28	-40	15.28
221.69	45.31	283	200	V	-58.49	0.43	-3.21	-54.85	-40	14.85
4620.00	41.47	50	100	H	-65.44	1.03	10.00	-56.47	-40	16.47
4620.00	42.24	114	100	V	-64.67	1.03	10.00	-55.70	-40	15.70
16-QAM 5MHz Bandwidth Middle Channel										
221.69	45.52	249	200	H	-58.28	0.43	-3.21	-54.64	-40	14.64
221.69	45.44	178	150	V	-58.36	0.43	-3.21	-54.72	-40	14.72
4620.00	41.53	139	150	H	-65.38	1.03	10.00	-56.41	-40	16.41
4620.00	43.19	253	100	V	-63.72	1.03	10.00	-54.75	-40	14.75

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										
221.69	45.14	122	150	H	-58.66	0.43	-3.21	-55.02	-40	15.02
221.69	45.76	192	200	V	-58.04	0.43	-3.21	-54.40	-40	14.40
4625.00	42.13	3	100	H	-64.77	1.04	10.00	-55.81	-40	15.81
4625.00	43.28	87	100	V	-63.62	1.04	10.00	-54.66	-40	14.66
16-QAM 5MHz Bandwidth High Channel										
221.69	46.43	249	200	H	-57.37	0.43	-3.21	-53.73	-40	13.73
221.69	46.00	91	150	V	-57.80	0.43	-3.21	-54.16	-40	14.16
4625.00	43.73	66	150	H	-63.17	1.04	10.00	-54.21	-40	14.21
4625.00	42.91	195	100	V	-63.99	1.04	10.00	-55.03	-40	15.03

2350-2360MHz

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										
221.69	46.06	146	150	H	-57.74	0.43	-3.21	-54.1	-40	14.10
221.69	46.16	350	200	V	-57.64	0.43	-3.21	-54	-40	14.00
4705.00	42.18	174	100	H	-64.53	1.04	10.06	-55.51	-40	15.51
4705.00	42.71	327	100	V	-64.00	1.04	10.06	-54.98	-40	14.98
16-QAM 5MHz Bandwidth Low Channel										
221.69	45.89	39	200	H	-57.91	0.43	-3.21	-54.27	-40	14.27
221.69	46.51	117	150	V	-57.29	0.43	-3.21	-53.65	-40	13.65
4705.00	43.45	142	150	H	-63.26	1.04	10.06	-54.24	-40	14.24
4705.00	43.11	286	100	V	-63.60	1.04	10.06	-54.58	-40	14.58

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 5MHz Bandwidth Middle Channel										
221.69	45.88	214	150	H	-57.92	0.43	-3.21	-54.28	-40	14.28
221.69	46.13	80	200	V	-57.67	0.43	-3.21	-54.03	-40	14.03
4710.00	41.49	317	100	H	-65.21	1.05	10.07	-56.19	-40	16.19
4710.00	42.14	75	100	V	-64.56	1.05	10.07	-55.54	-40	15.54
16-QAM 5MHz Bandwidth Middle Channel										
221.69	46.45	156	200	H	-57.35	0.43	-3.21	-53.71	-40	13.71
221.69	46.58	73	150	V	-57.22	0.43	-3.21	-53.58	-40	13.58
4710.00	41.87	221	150	H	-64.83	1.05	10.07	-55.81	-40	15.81
4710.00	42.25	98	100	V	-64.45	1.05	10.07	-55.43	-40	15.43

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										
221.69	46.55	297	150	H	-57.25	0.43	-3.21	-53.61	-40	13.61
221.69	46.25	290	200	V	-57.55	0.43	-3.21	-53.91	-40	13.91
4715.00	42.56	222	100	H	-64.13	1.05	10.07	-55.11	-40	15.11
4715.00	43.19	349	100	V	-63.50	1.05	10.07	-54.48	-40	14.48
16-QAM 5MHz Bandwidth High Channel										
221.69	47.17	315	200	H	-56.63	0.43	-3.21	-52.99	-40	12.99
221.69	46.29	321	150	V	-57.51	0.43	-3.21	-53.87	-40	13.87
4715.00	44.20	174	150	H	-62.49	1.05	10.07	-53.47	-40	13.47
4715.00	43.12	89	100	V	-63.57	1.05	10.07	-54.55	-40	14.55

LTE Band 41:

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										
219.99	44.88	286	150	H	-59.07	0.43	-3.27	-55.37	-25	30.37
219.99	44.95	332	200	V	-59.00	0.43	-3.27	-55.30	-25	30.30
5115.00	42.29	130	100	H	-63.09	1.09	10.3	-53.88	-25	28.88
5115.00	42.82	334	100	V	-62.56	1.09	10.3	-53.35	-25	28.35
16-QAM 5MHz Bandwidth Low Channel										
219.99	45.18	80	200	H	-58.77	0.43	-3.27	-55.07	-25	30.07
219.99	44.95	331	150	V	-59.00	0.43	-3.27	-55.30	-25	30.30
5115.00	43.20	329	150	H	-62.18	1.09	10.3	-52.97	-25	27.97
5115.00	42.89	18	100	V	-62.49	1.09	10.3	-53.28	-25	28.28

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										
219.99	44.27	119	150	H	-59.68	0.43	-3.27	-55.98	-25	30.98
219.99	45.04	168	200	V	-58.91	0.43	-3.27	-55.21	-25	30.21
5210.00	42.06	32	100	H	-63.32	1.11	10.3	-54.13	-25	29.13
5210.00	42.24	292	100	V	-63.14	1.11	10.3	-53.95	-25	28.95
16-QAM 5MHz Bandwidth Middle Channel										
219.99	44.69	255	200	H	-59.26	0.43	-3.27	-55.56	-25	30.56
219.99	44.98	135	150	V	-58.97	0.43	-3.27	-55.27	-25	30.27
5210.00	42.39	297	150	H	-62.99	1.11	10.3	-53.8	-25	28.80
5210.00	42.85	301	100	V	-62.53	1.11	10.3	-53.34	-25	28.34

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										
219.99	45.24	166	150	H	-58.71	0.43	-3.27	-55.01	-25	30.01
219.99	45.47	219	200	V	-58.48	0.43	-3.27	-54.78	-25	29.78
5305.00	41.63	71	100	H	-62.69	1.12	10.3	-53.51	-25	28.51
5305.00	42.42	307	100	V	-61.9	1.12	10.3	-52.72	-25	27.72
16-QAM 5MHz Bandwidth High Channel										
219.99	45.23	174	200	H	-58.72	0.43	-3.27	-55.02	-25	30.02
219.99	46.04	337	150	V	-57.91	0.43	-3.27	-54.21	-25	29.21
5305.00	42.49	94	150	H	-61.83	1.12	10.3	-52.65	-25	27.65
5305.00	42.56	61	100	V	-61.76	1.12	10.3	-52.58	-25	27.58

30 MHz ~ 20 GHz:

LTE Band 66:

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										
222.06	44.57	309	150	H	-59.20	0.43	-3.20	-55.57	-13	42.57
222.06	45.47	262	200	V	-58.30	0.43	-3.20	-54.67	-13	41.67
3421.40	42.30	13	100	H	-65.64	0.93	9.82	-56.75	-13	43.75
3421.40	43.18	162	100	V	-64.76	0.93	9.82	-55.87	-13	42.87
16-QAM 1.4MHz Bandwidth Low Channel										
222.06	45.01	162	200	H	-58.76	0.43	-3.20	-55.13	-13	42.13
222.06	44.70	73	150	V	-59.07	0.43	-3.20	-55.44	-13	42.44
3421.40	43.24	268	150	H	-64.70	0.93	9.82	-55.81	-13	42.81
3421.40	43.43	6	100	V	-64.51	0.93	9.82	-55.62	-13	42.62

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										
222.06	44.23	134	150	H	-59.54	0.43	-3.20	-55.91	-13	42.91
222.06	44.35	329	200	V	-59.42	0.43	-3.20	-55.79	-13	42.79
3490.00	41.42	146	100	H	-66.22	0.93	9.89	-57.26	-13	44.26
3490.00	41.78	296	100	V	-65.86	0.93	9.89	-56.90	-13	43.90
16-QAM 1.4MHz Bandwidth Middle Channel										
222.06	44.26	54	200	H	-59.51	0.43	-3.20	-55.88	-13	42.88
222.06	44.51	314	150	V	-59.26	0.43	-3.20	-55.63	-13	42.63
3490.00	42.12	223	150	H	-65.52	0.93	9.89	-56.56	-13	43.56
3490.00	41.83	279	100	V	-65.81	0.93	9.89	-56.85	-13	43.85

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										
222.06	44.51	92	150	H	-59.26	0.43	-3.20	-55.63	-13	42.63
222.06	44.46	90	200	V	-59.31	0.43	-3.20	-55.68	-13	42.68
3558.60	41.53	8	100	H	-65.89	0.93	9.87	-56.95	-13	43.95
3558.60	41.74	248	100	V	-65.68	0.93	9.87	-56.74	-13	43.74
16-QAM 1.4MHz Bandwidth High Channel										
222.06	44.53	101	200	H	-59.24	0.43	-3.20	-55.61	-13	42.61
222.06	44.41	177	150	V	-59.36	0.43	-3.20	-55.73	-13	42.73
3558.60	41.76	174	150	H	-65.66	0.93	9.87	-56.72	-13	43.72
3558.60	42.38	140	100	V	-65.04	0.93	9.87	-56.10	-13	43.10

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 (a) (g) (h) (m); § 90.691 - 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.

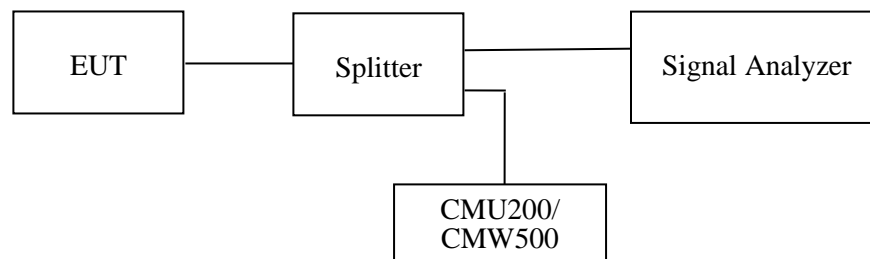
According to FCC §27.53 (a) (g) (h) (m), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ 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 that $43 + 10 \log(P)$ 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 and §90.691(a).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:	24.3~24.7 °C
Relative Humidity:	49~50 %
ATM Pressure:	100.7~102.5 kPa

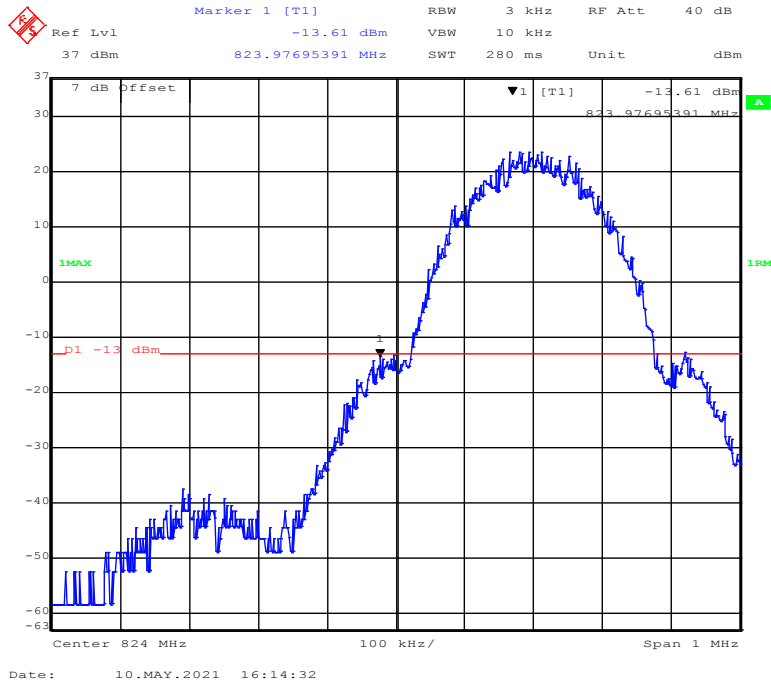
The testing was performed by Tyrone Wang from 2021-04-27 to 2021-05-10.

EUT operation mode: Transmitting

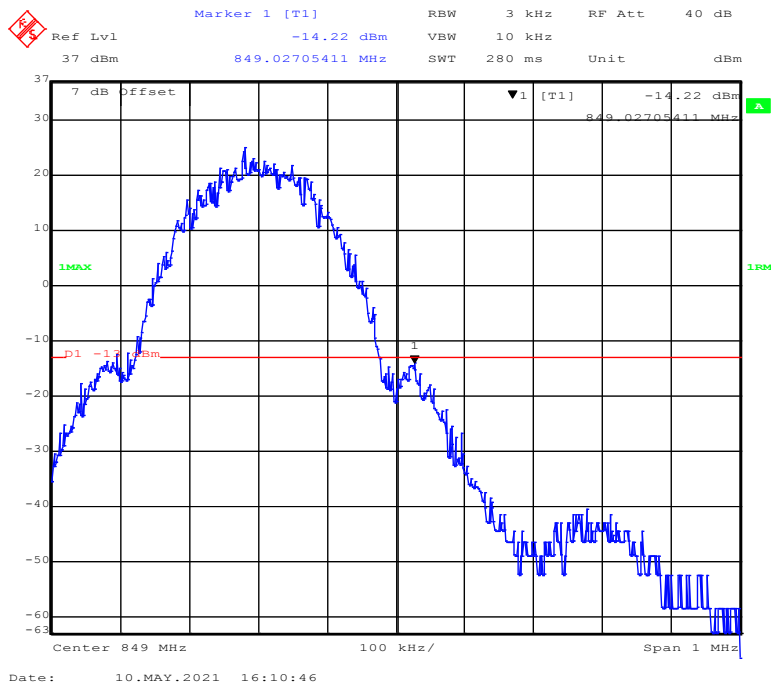
Test Result: Compliant.

GSM 850 Band:

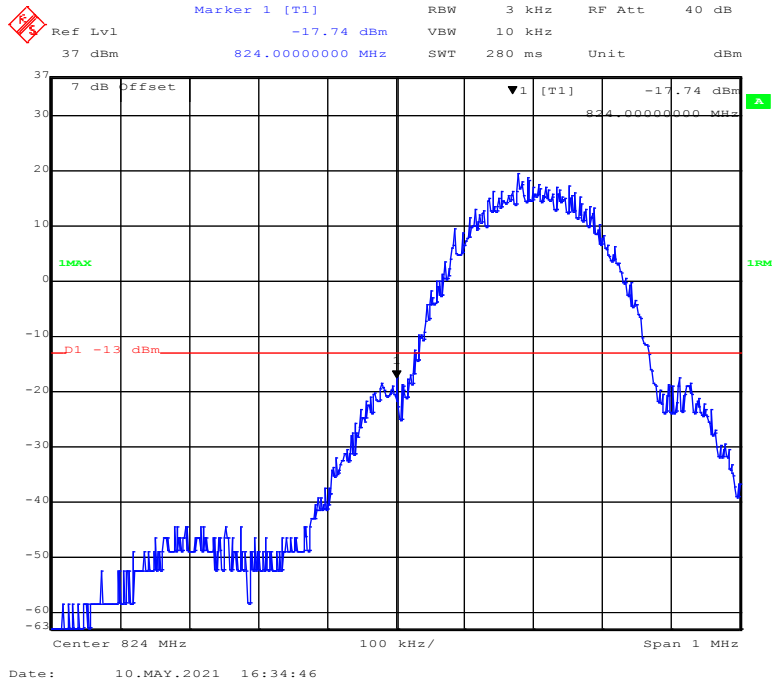
GPRS Mode, Left Band Edge



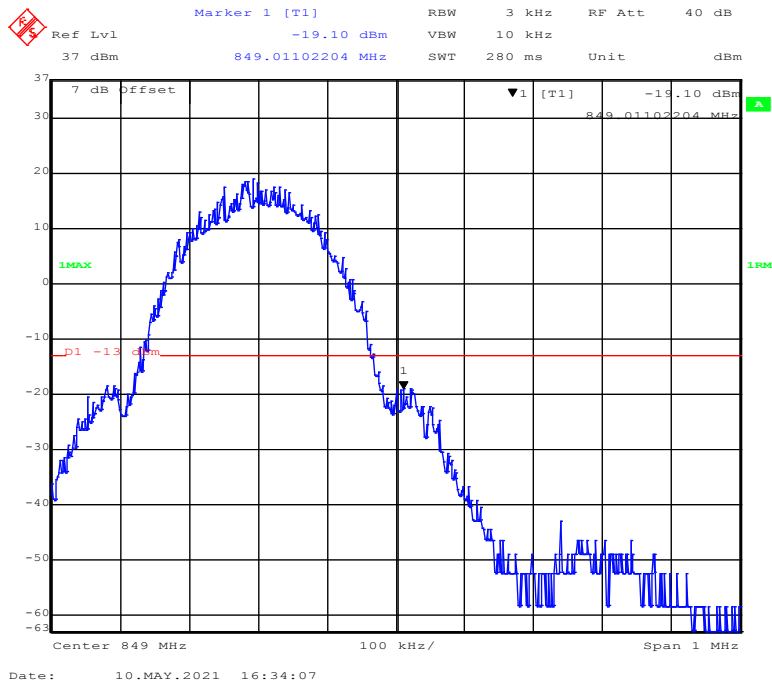
GPRS Mode, Right Band Edge



EGPRS Mode, Left Band Edge

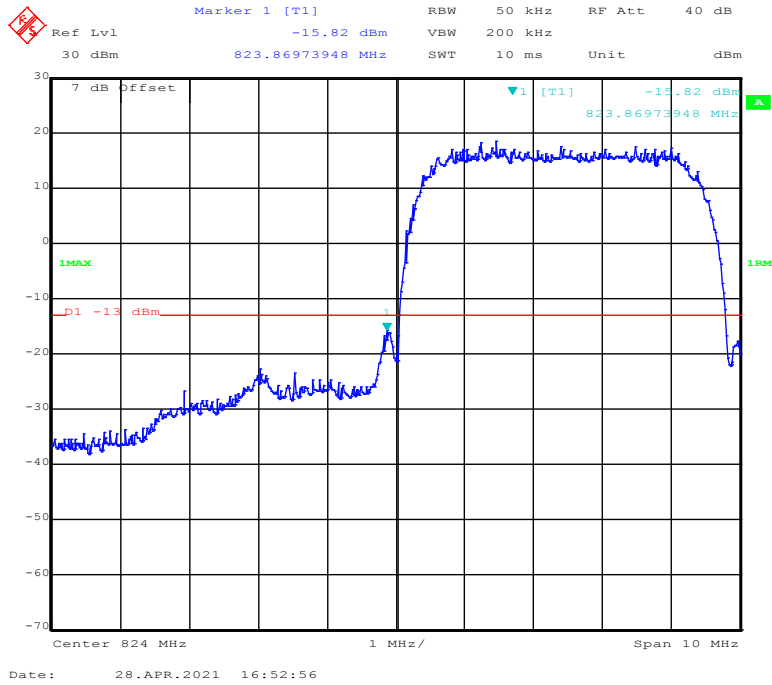


EGPRS Mode, Right Band Edge

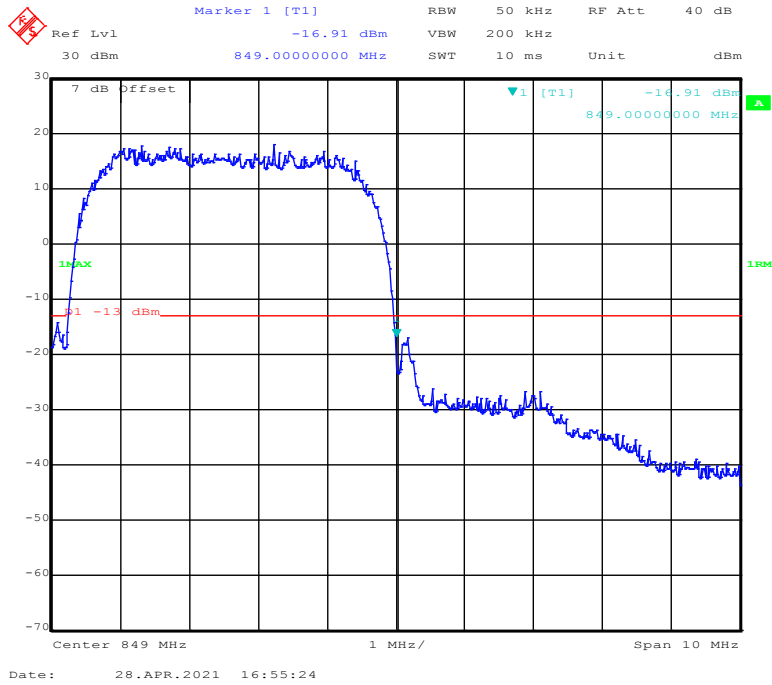


WCDMA Band V

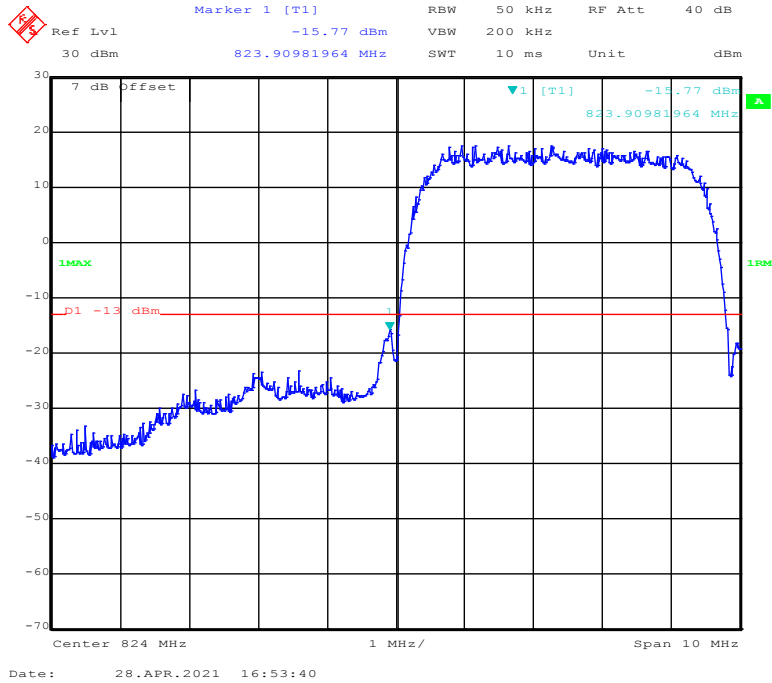
WCDMA (Rel 99) Mode, Left Band Edge



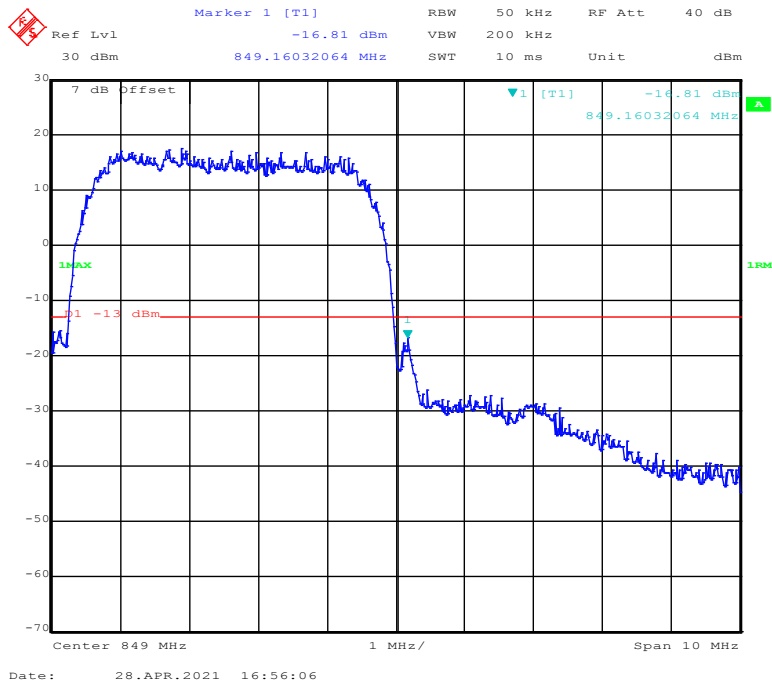
WCDMA (Rel 99) Mode, Right Band Edge



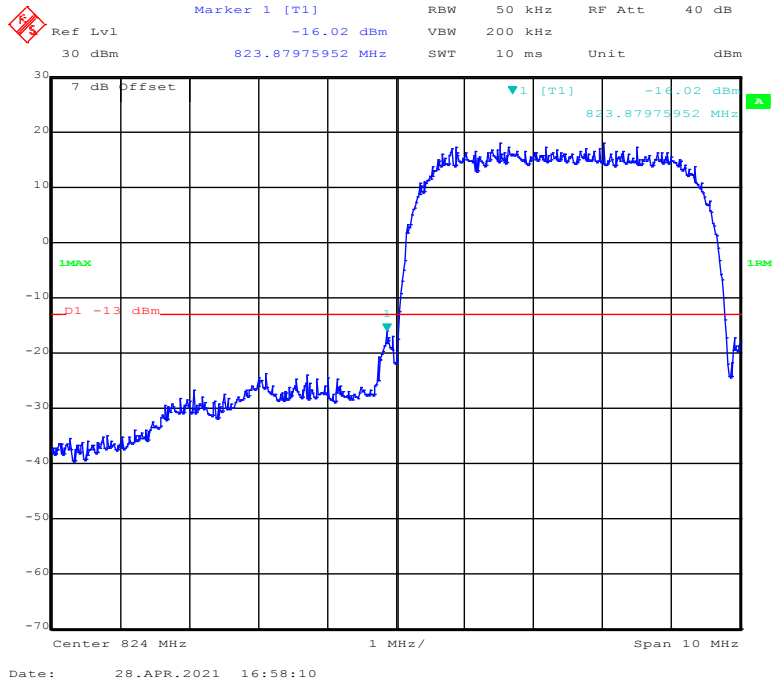
WCDMA (HSDPA) Mode, Left Band Edge



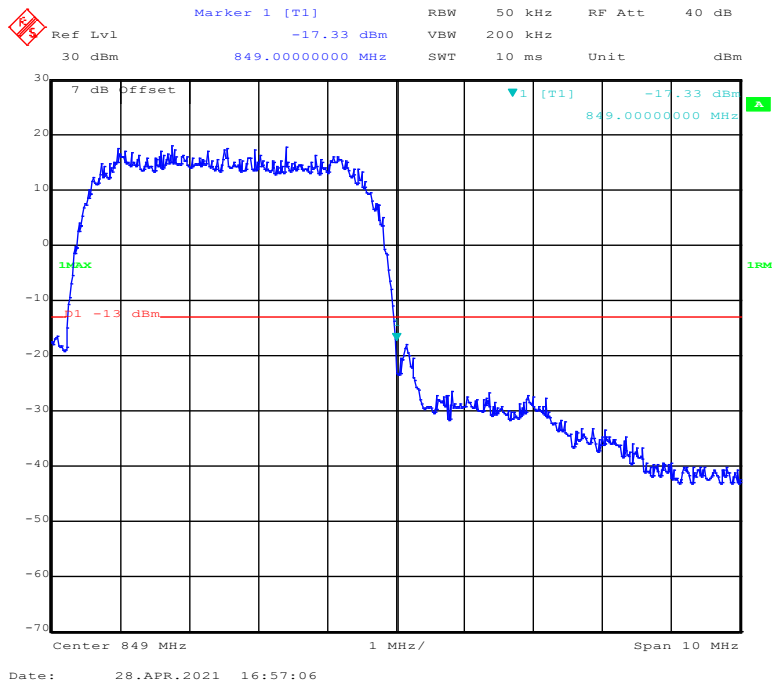
WCDMA (HSDPA) Mode, Right Band Edge



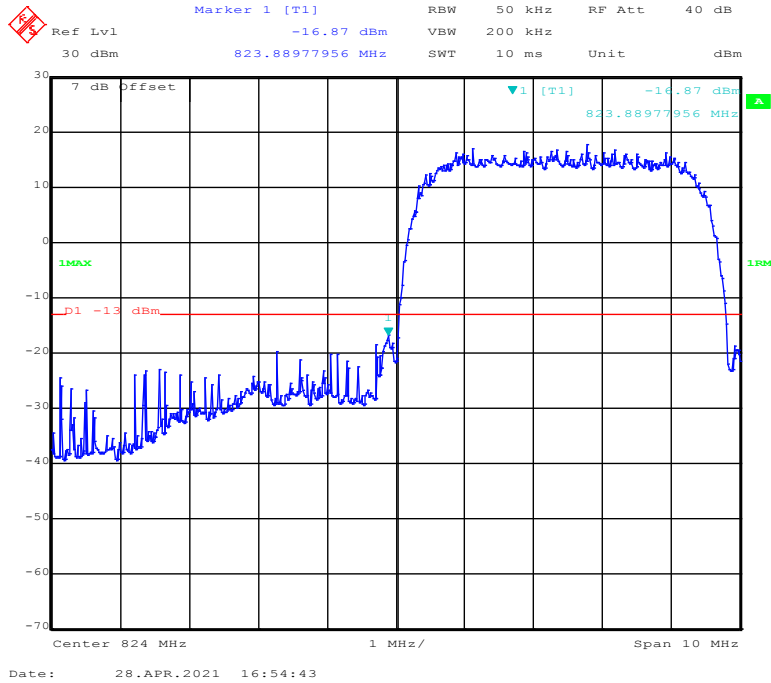
WCDMA (HSUPA) Mode, Left Band Edge



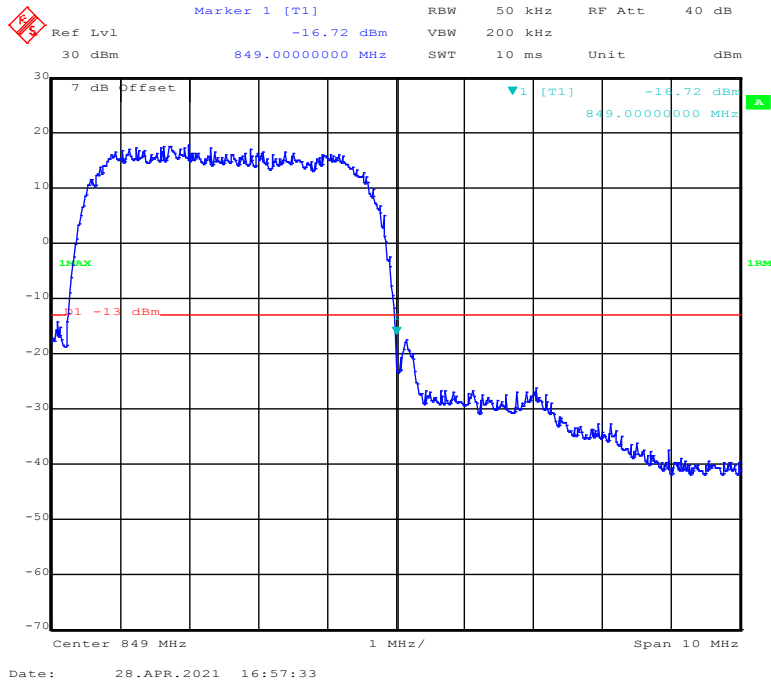
WCDMA (HSUPA) Mode, Right Band Edge



WCDMA (HSPA+) Mode, Left Band Edge

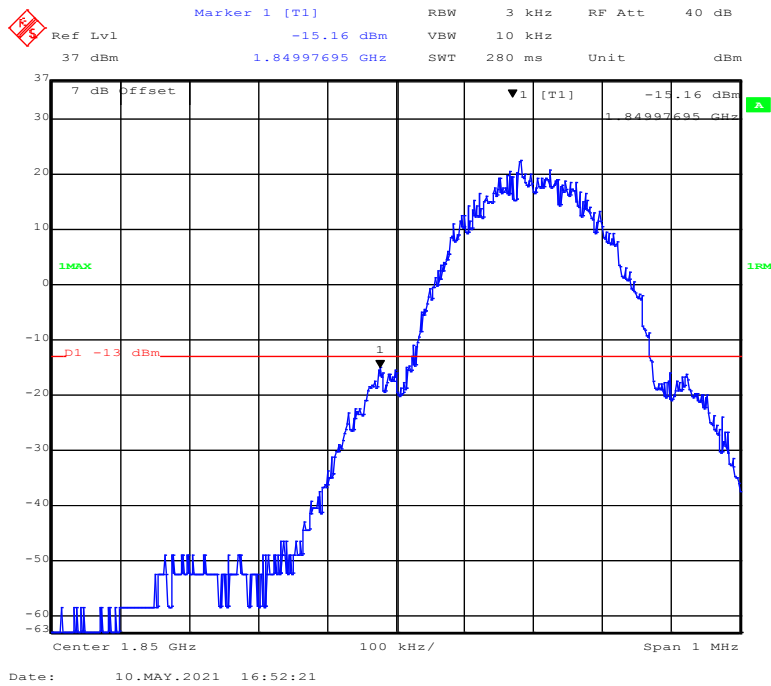


WCDMA (HSPA+) Mode, Right Band Edge

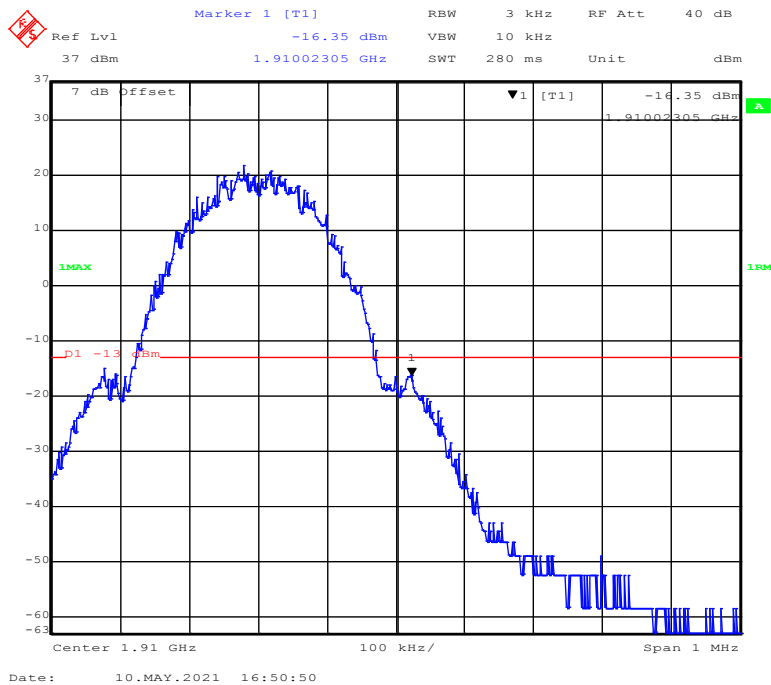


PCS 1900 Band:

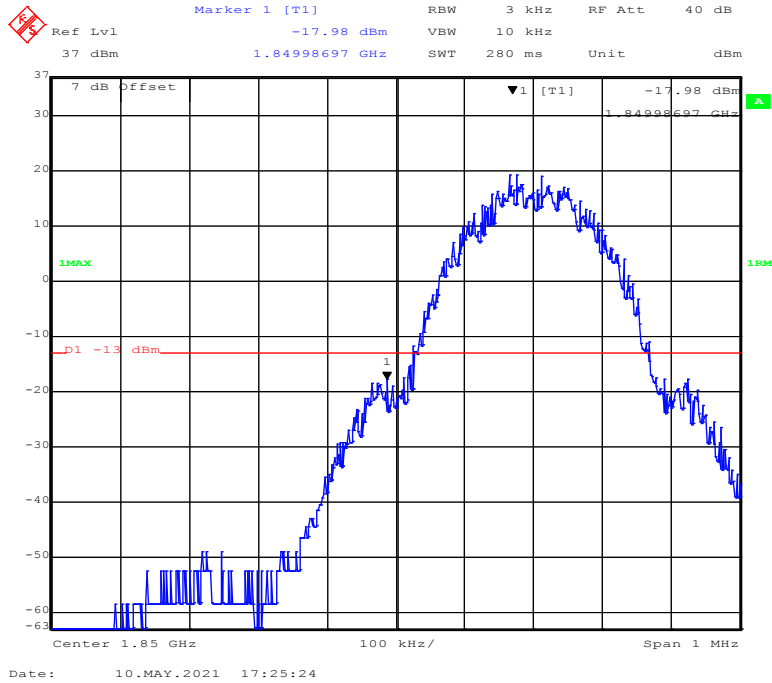
GPRS Mode, Left Band Edge



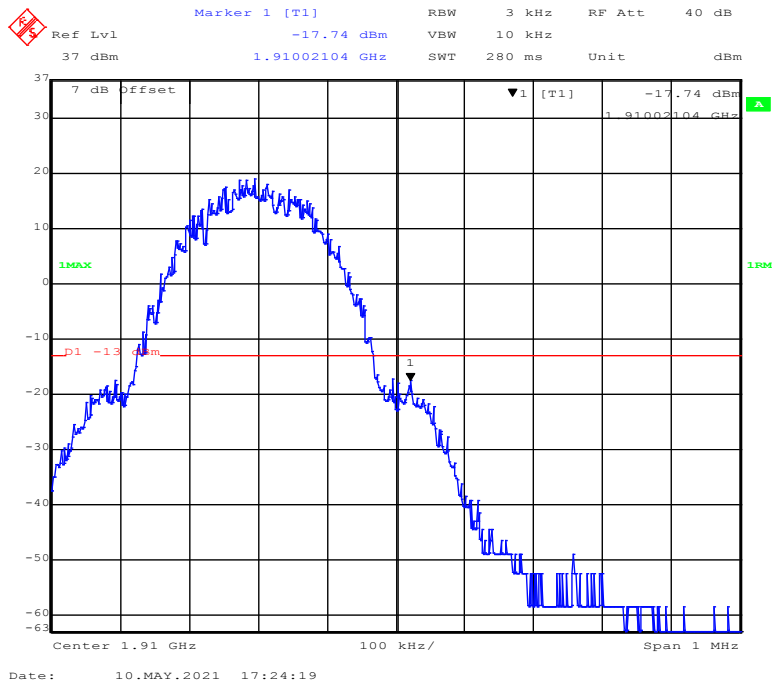
GPRS Mode, Right Band Edge



EGPRS Mode, Left Band Edge

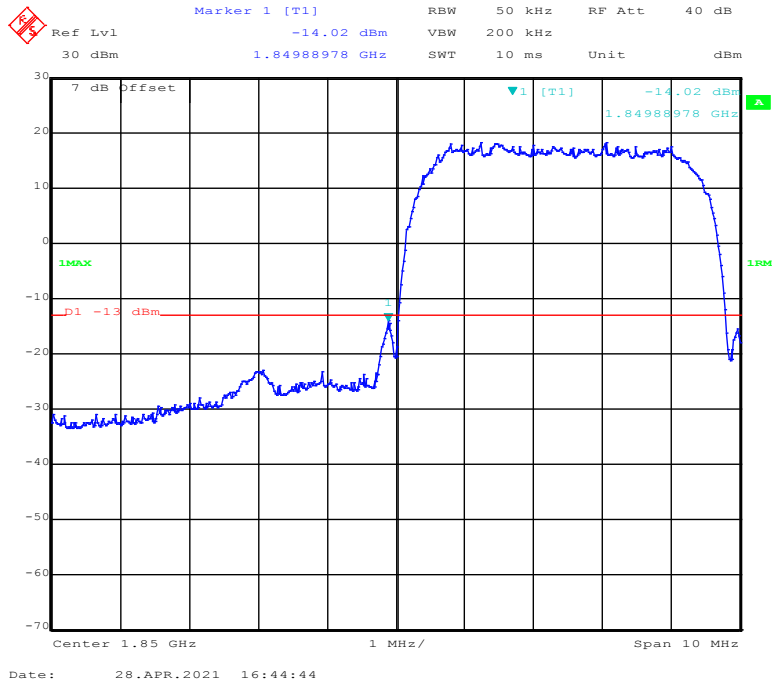


EGPRS Mode, Right Band Edge

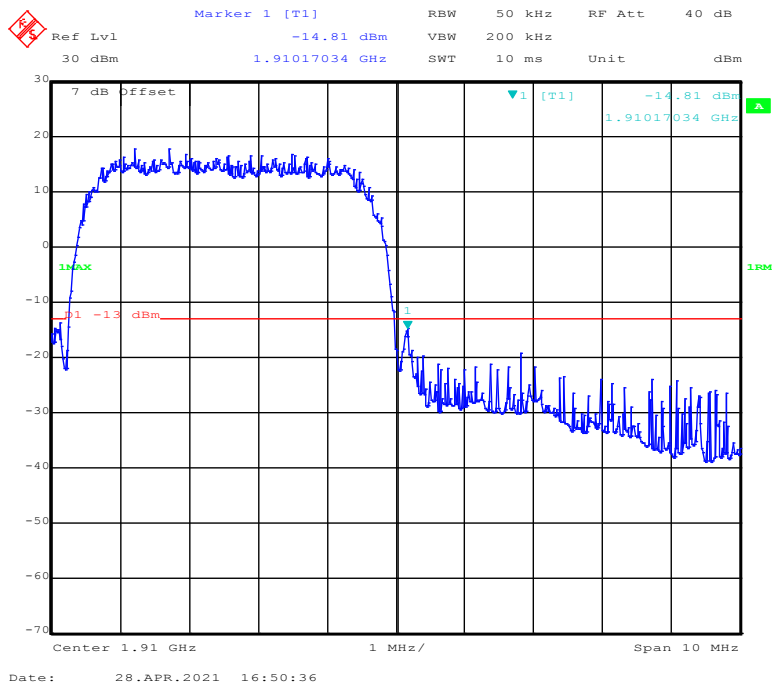


WCDMA Band II

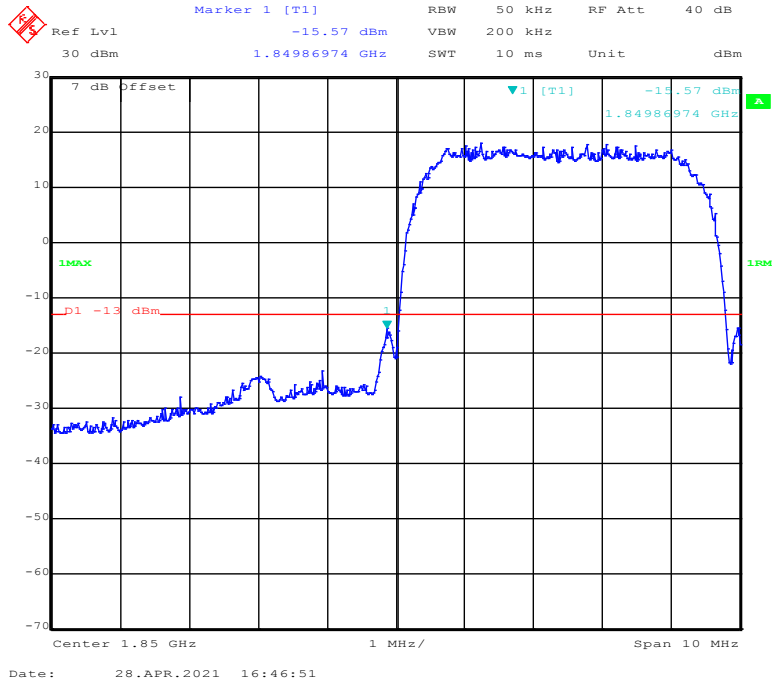
WCDMA (Rel 99) Mode, Left Band Edge



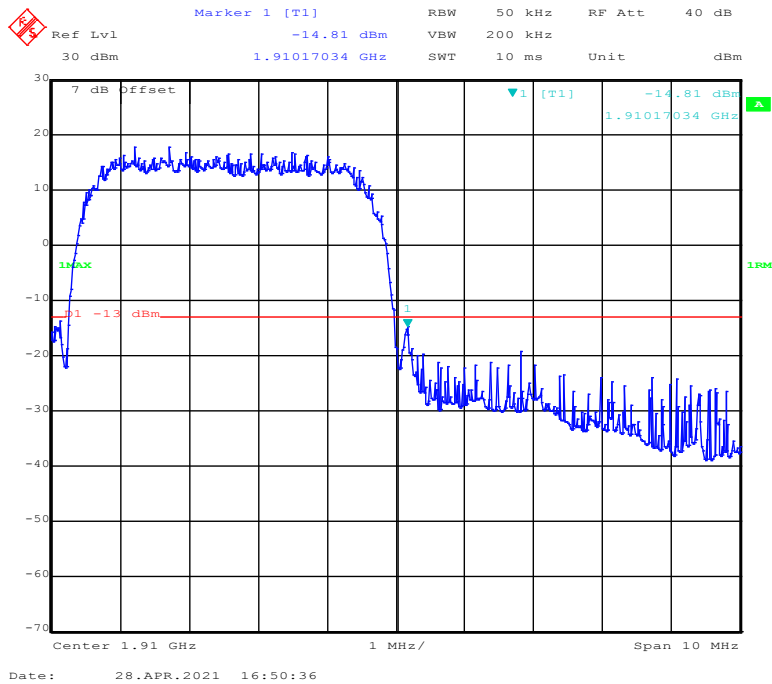
WCDMA (Rel 99) Mode, Right Band Edge



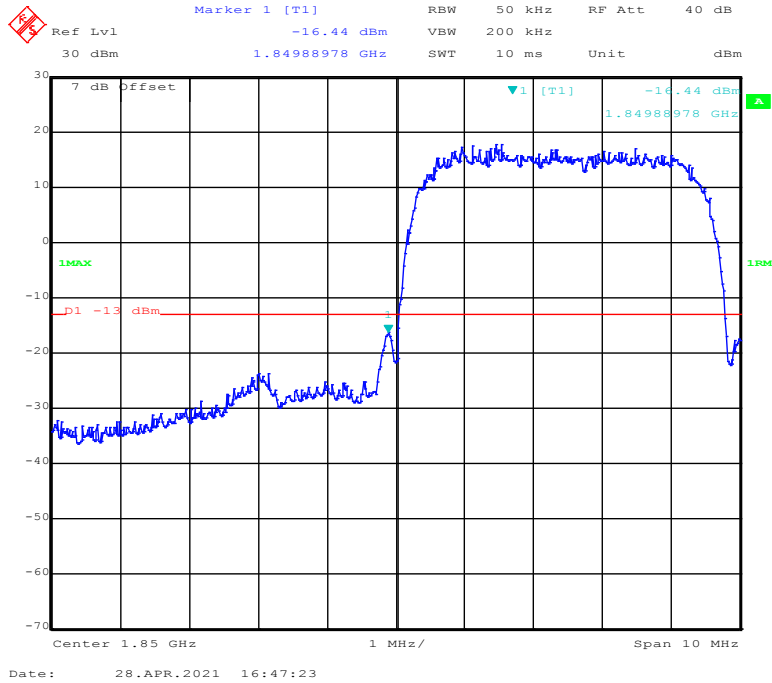
WCDMA (HSDPA) Mode, Left Band Edge



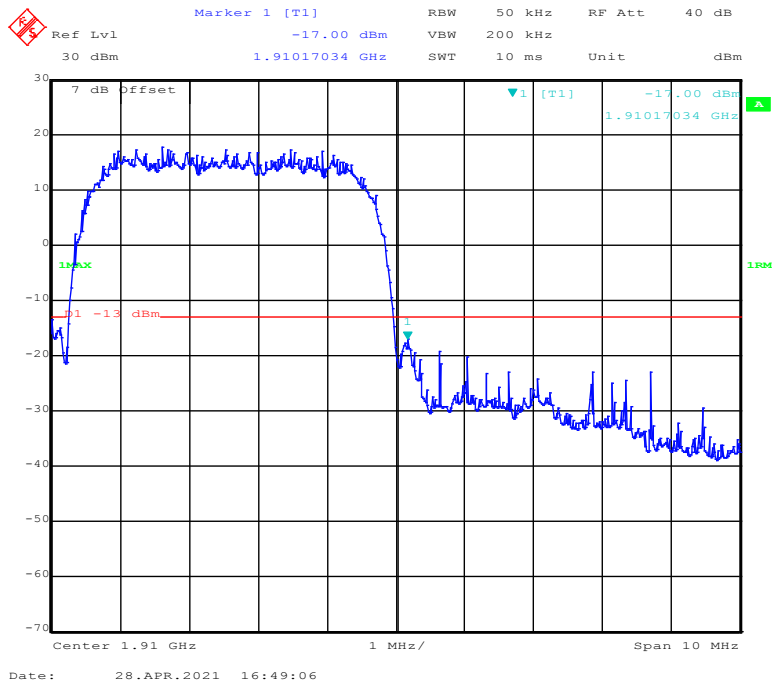
WCDMA (HSDPA) Mode, Right Band Edge



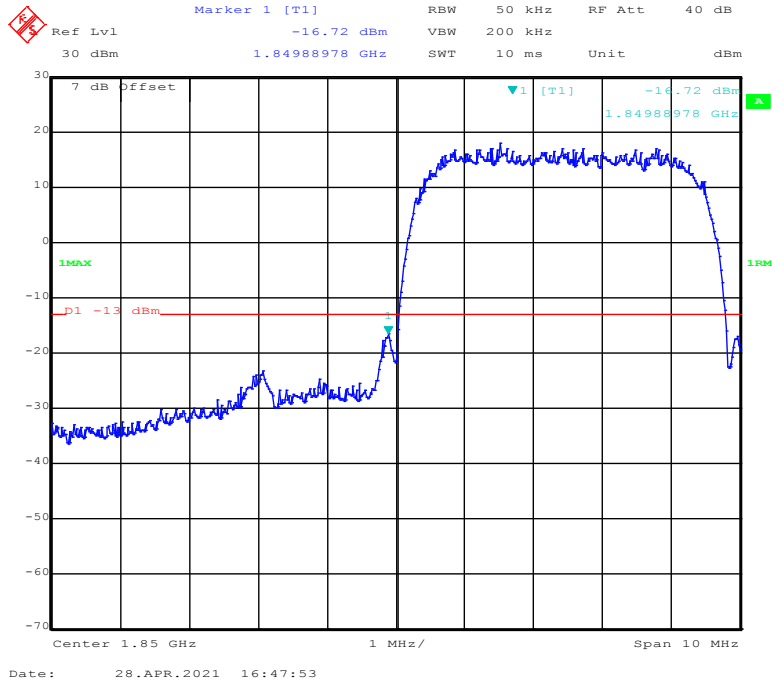
WCDMA (HSUPA) Mode, Left Band Edge



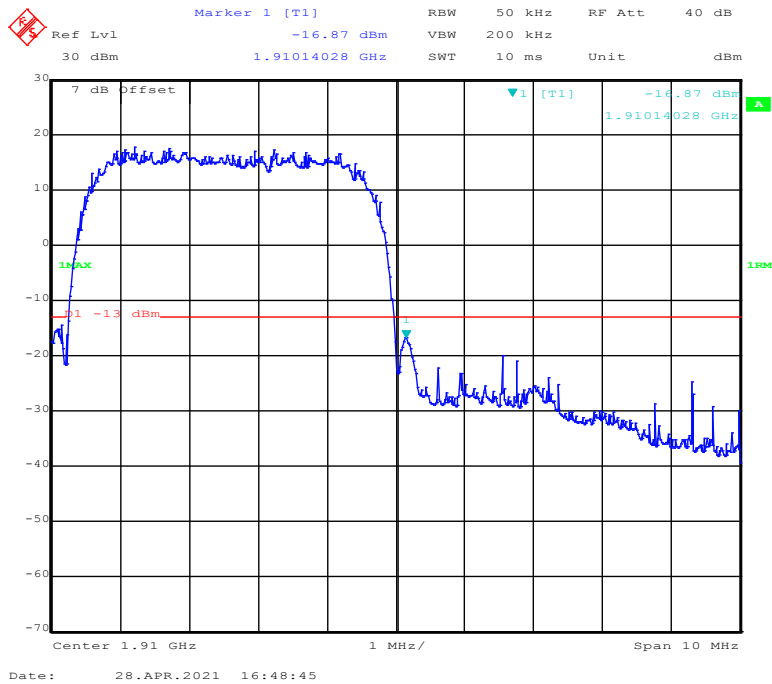
WCDMA (HSUPA) Mode, Right Band Edge



WCDMA (HSPA+) Mode, Left Band Edge

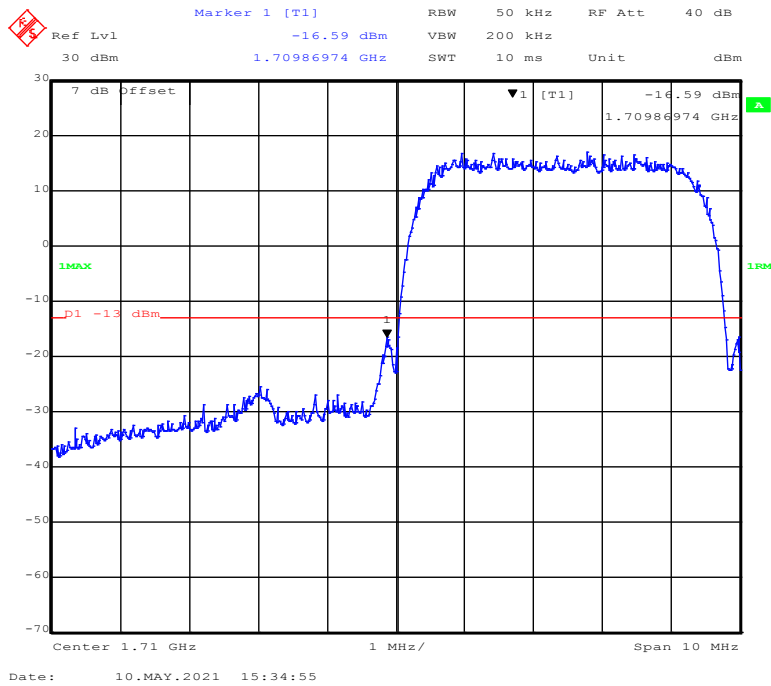


WCDMA (HSPA+) Mode, Right Band Edge

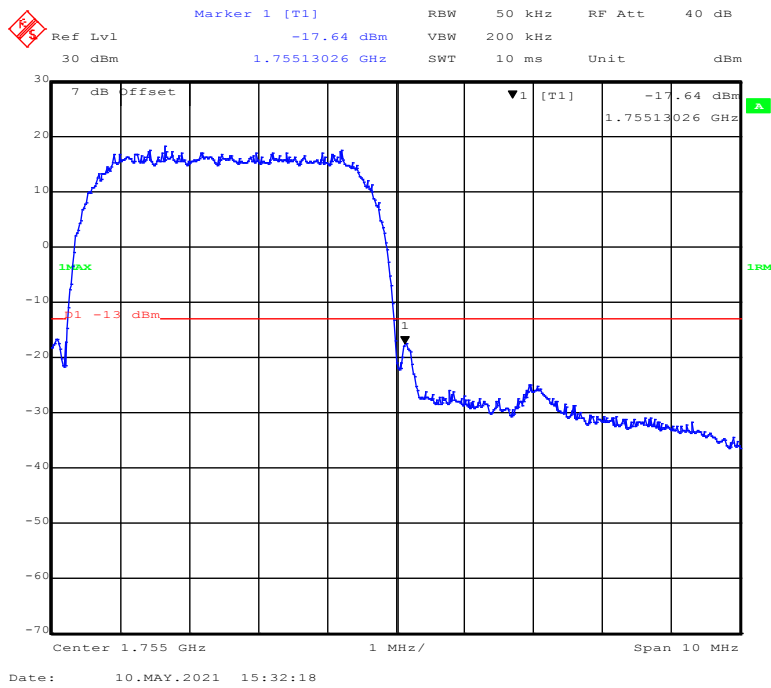


WCDMA Band IV

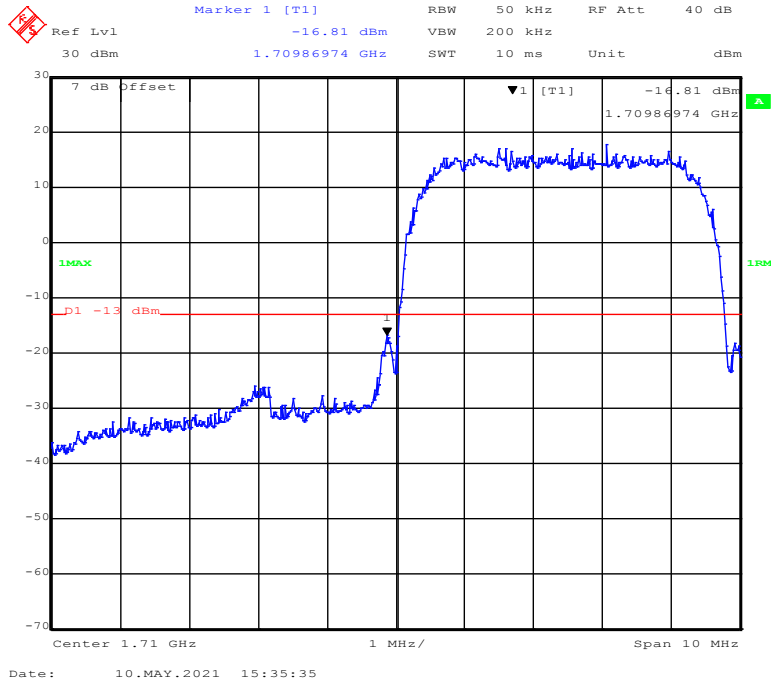
WCDMA (Rel99) Mode, Left Band Edge



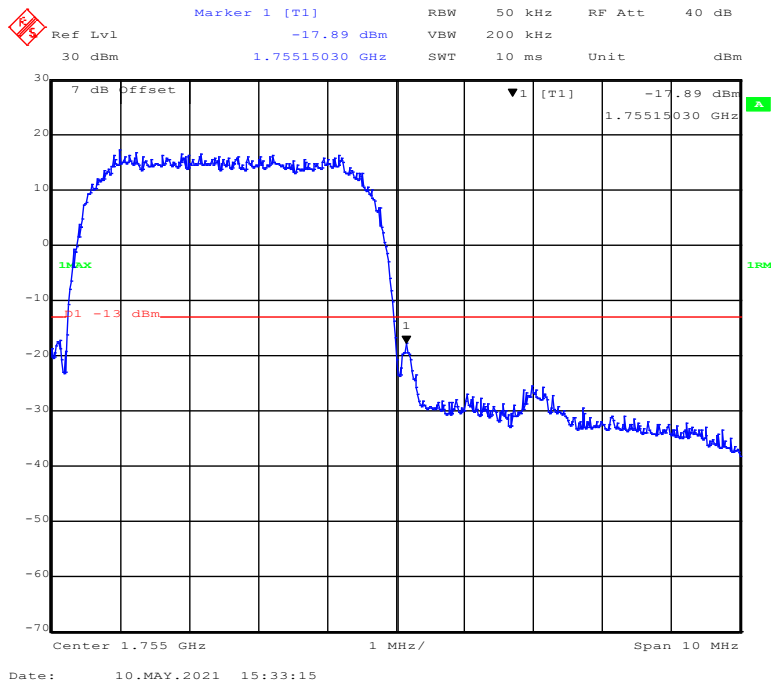
WCDMA (Rel99) Mode, Right Band Edge



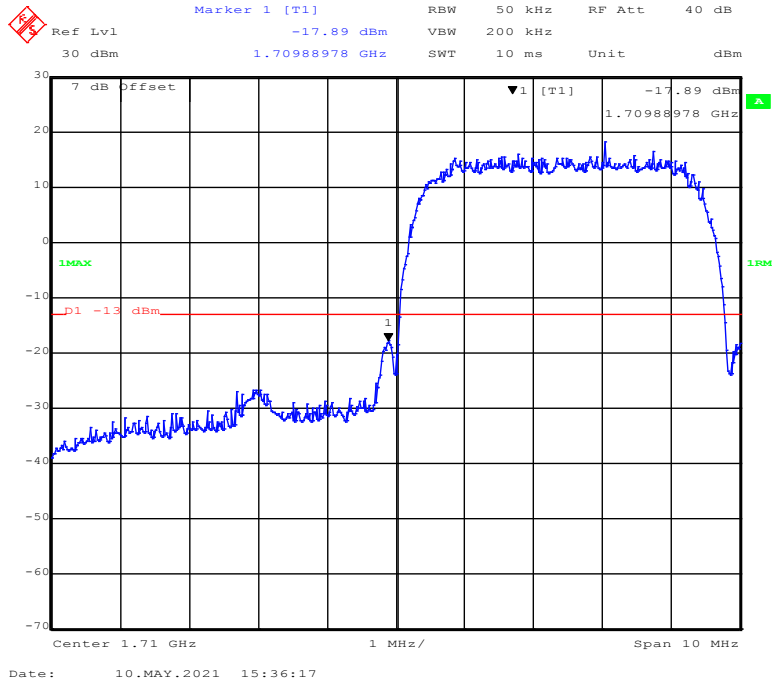
WCDMA (HSDPA) Mode, Left Band Edge



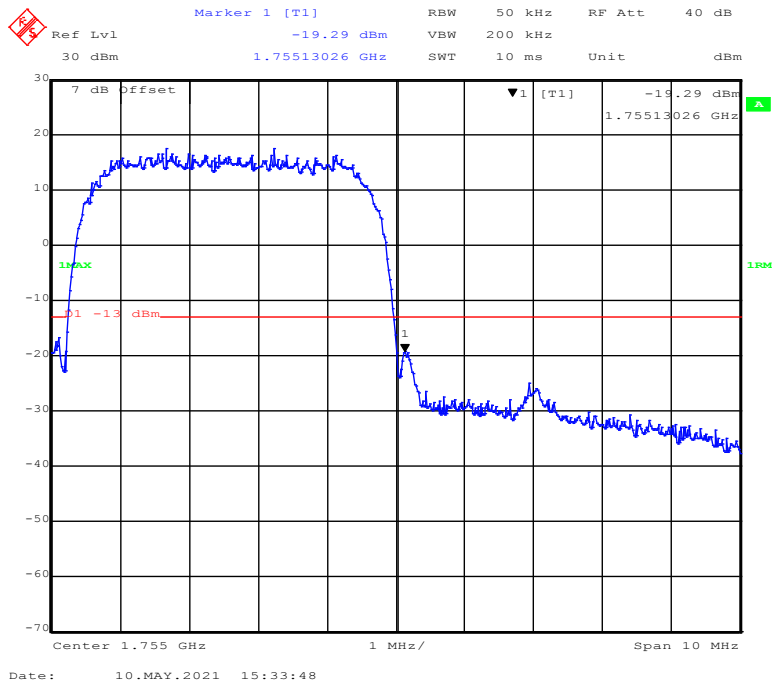
WCDMA (HSDPA) Mode, Right Band Edge



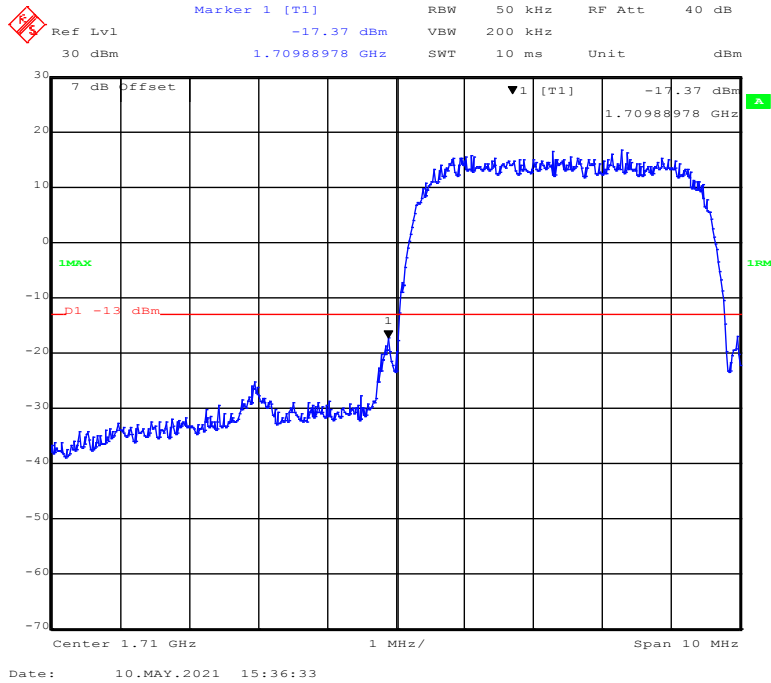
WCDMA (HSUPA) Mode, Left Band Edge



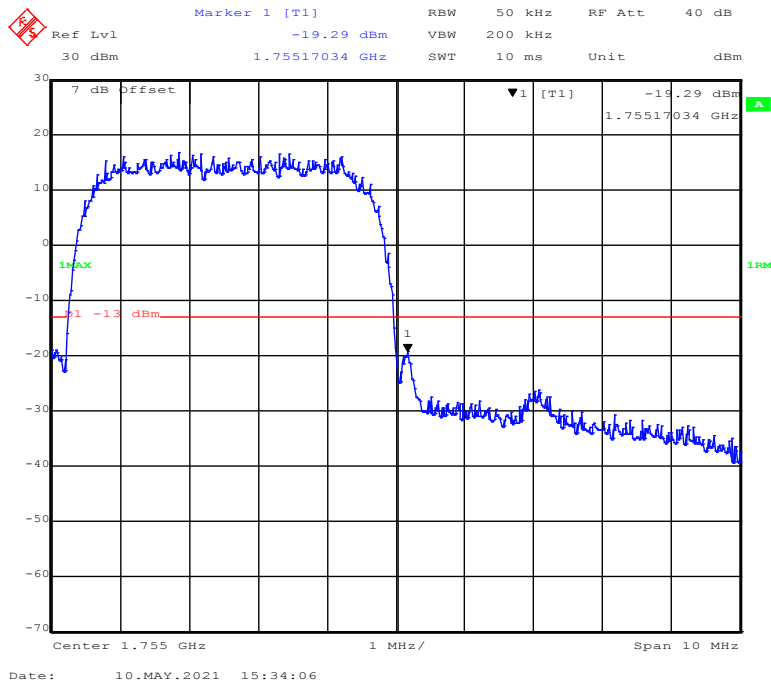
WCDMA (HSUPA) Mode, Right Band Edge



WCDMA (HSPA+) Mode, Left Band Edge

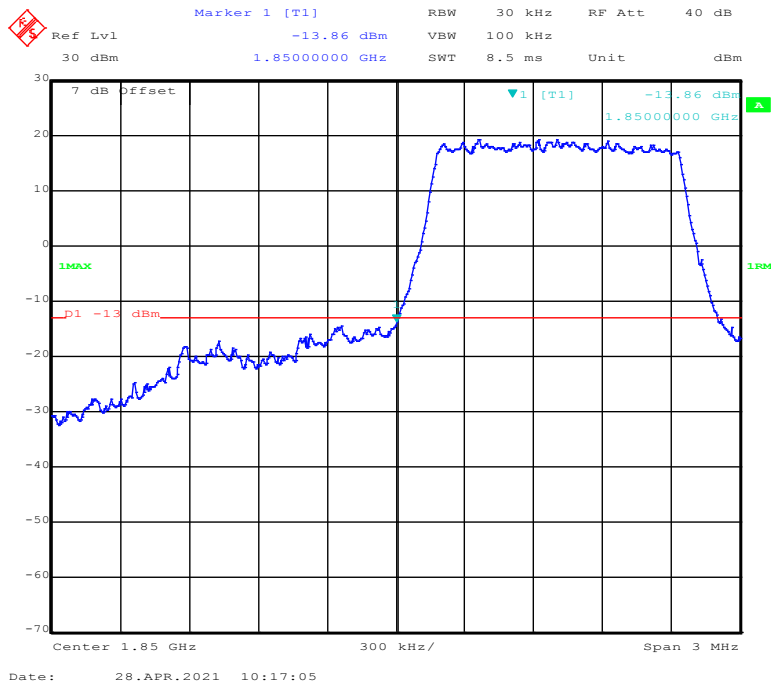


WCDMA (HSPA+) Mode, Right Band Edge

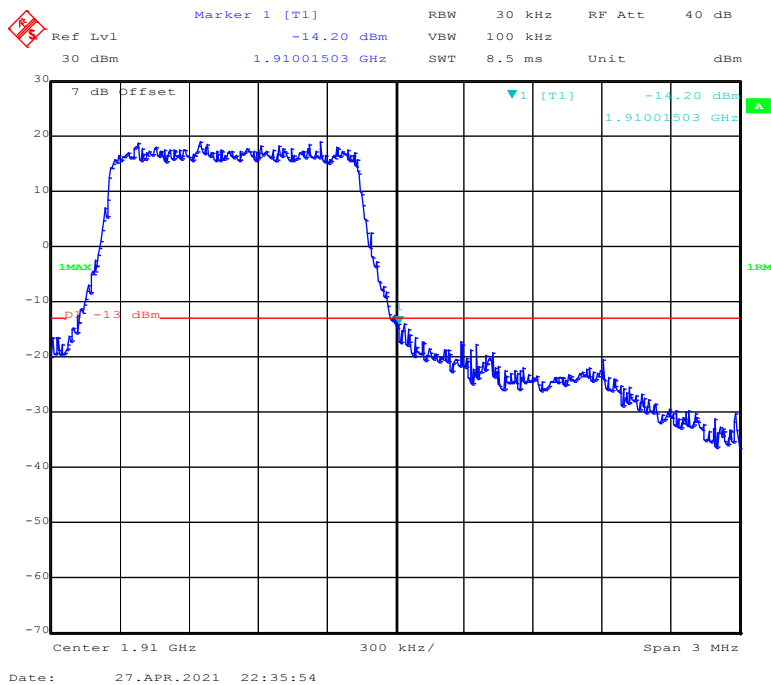


LTE Band 2:

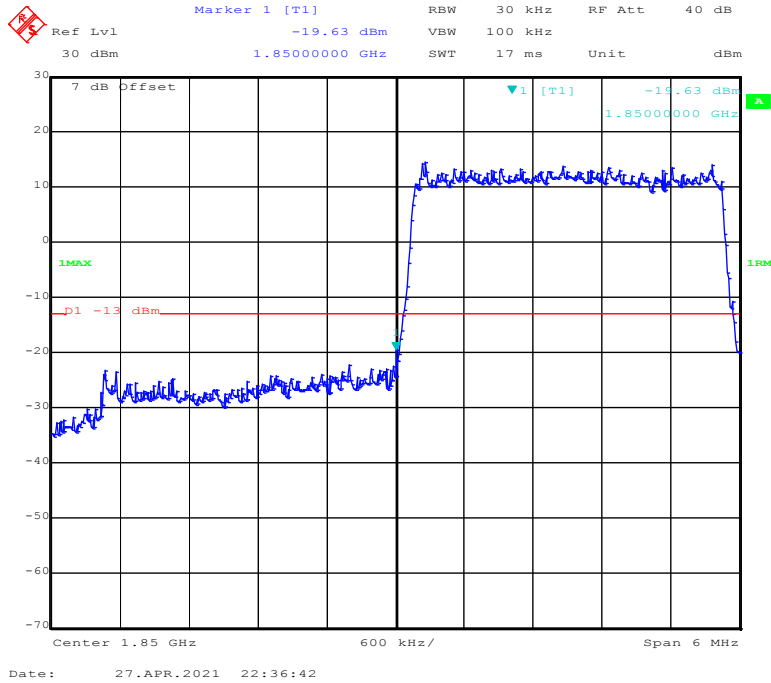
QPSK (1.4 MHz, FULL RB) - Left Band Edge



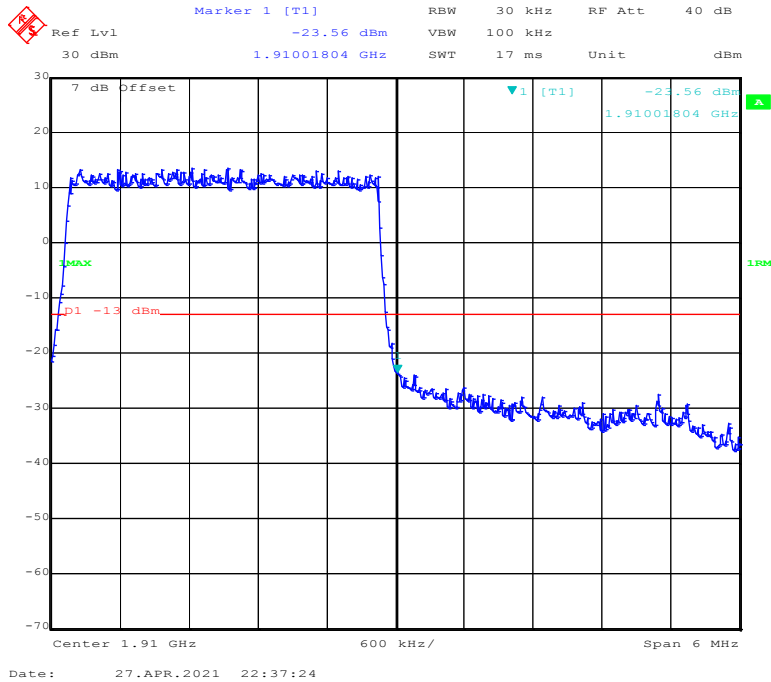
QPSK (1.4 MHz, FULL RB) - Right Band Edge



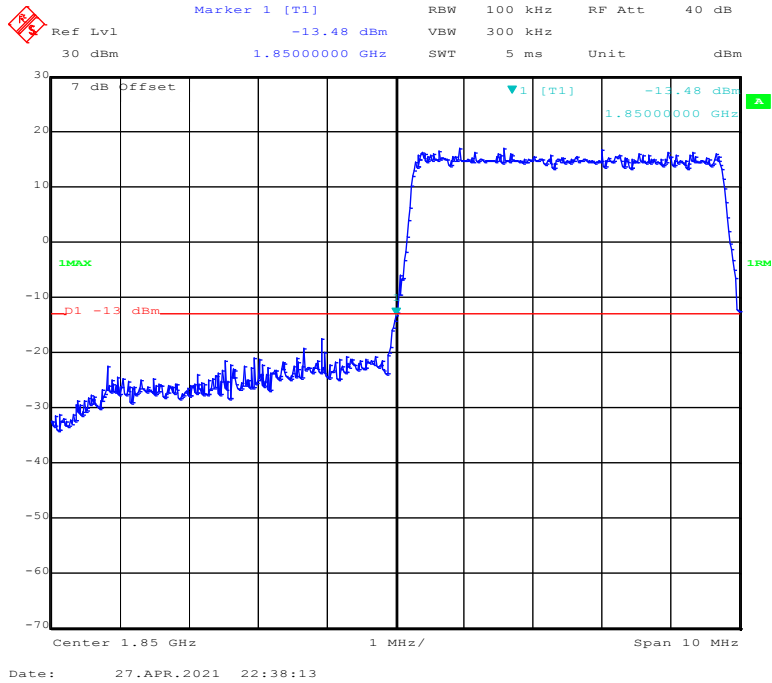
QPSK (3 MHz, FULL RB) - Left Band Edge



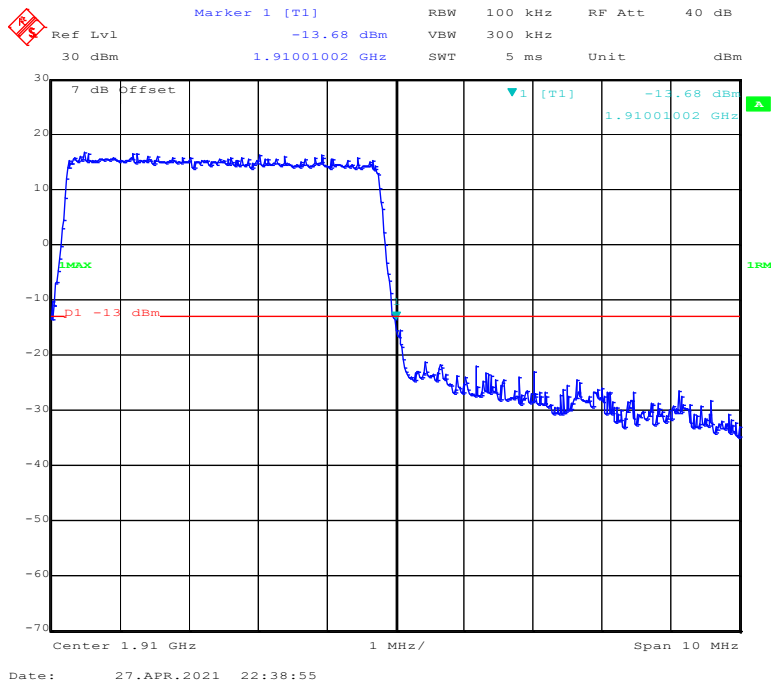
QPSK (3 MHz, FULL RB) - Right Band Edge



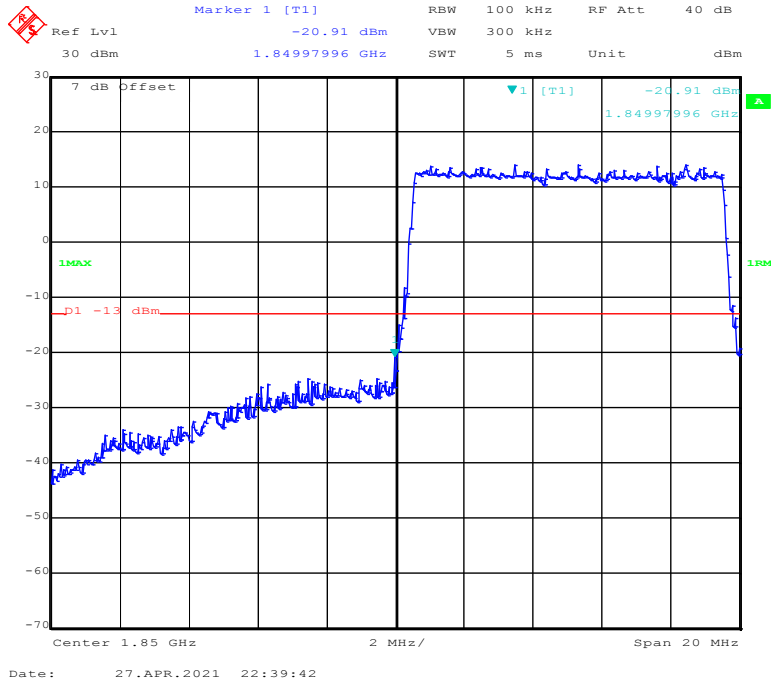
QPSK (5 MHz, FULL RB) - Left Band Edge



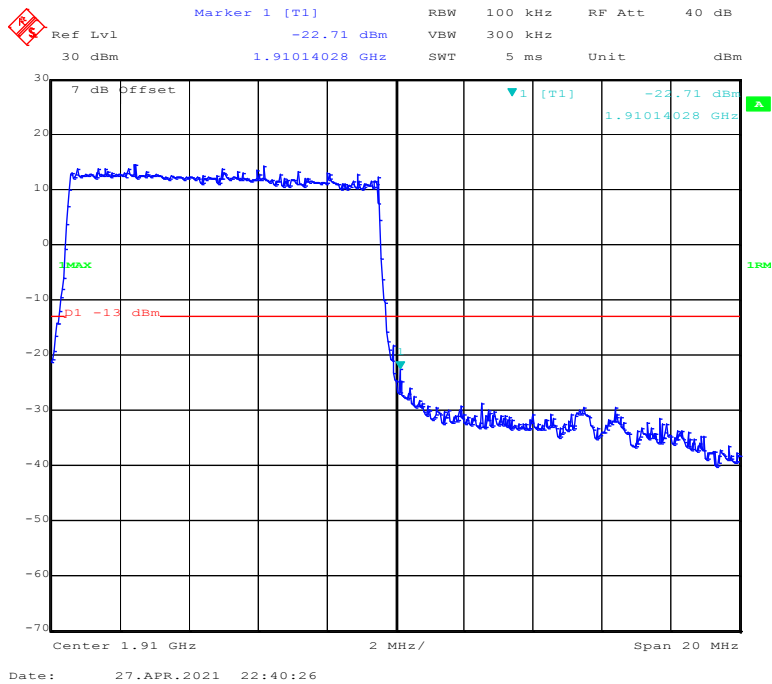
QPSK (5 MHz, FULL RB) - Right Band Edge



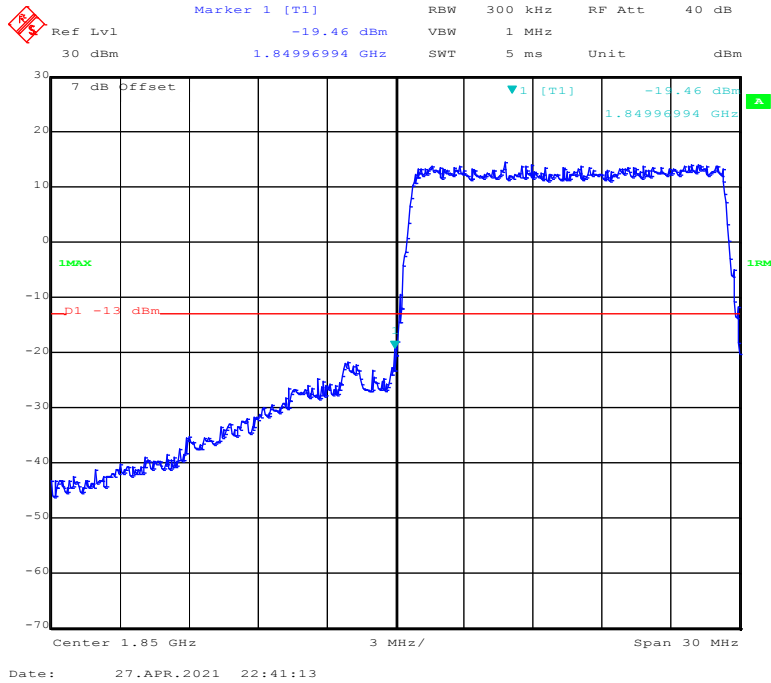
QPSK (10 MHz, FULL RB) - Left Band Edge



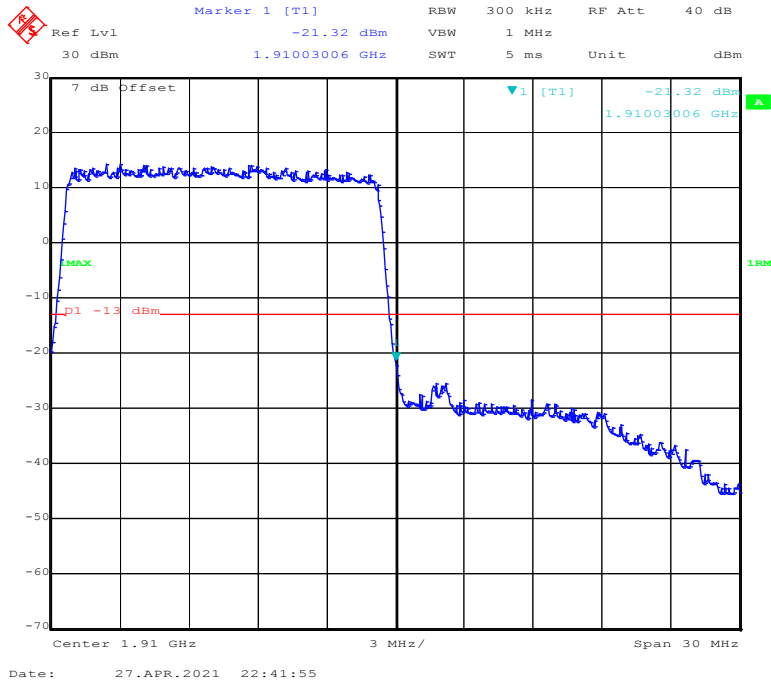
QPSK (10 MHz, FULL RB) - Right Band Edge



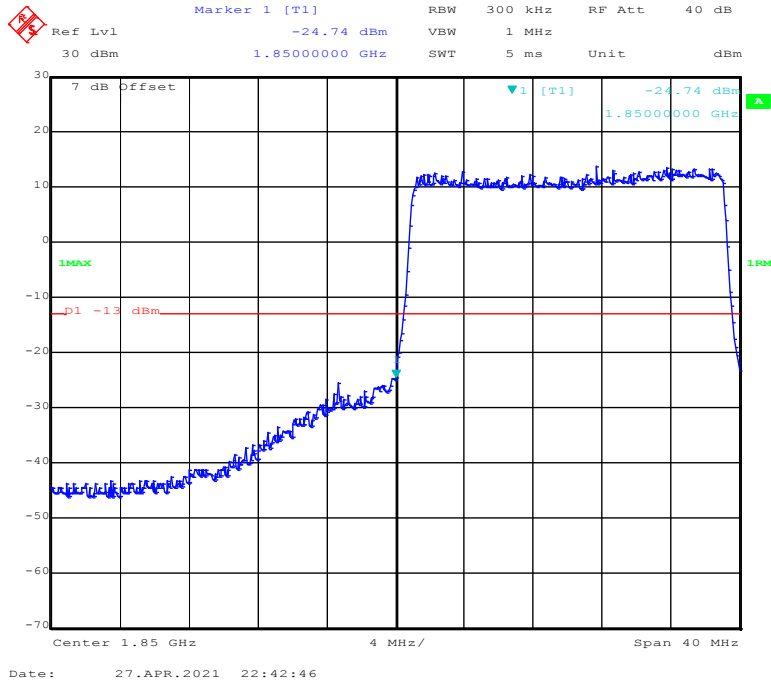
QPSK (15 MHz, FULL RB) - Left Band Edge



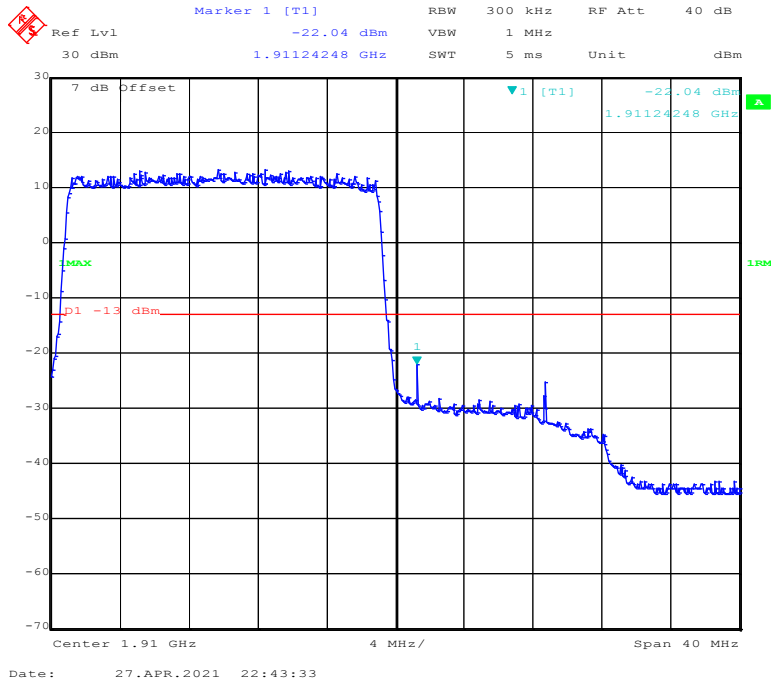
QPSK (15 MHz, FULL RB) - Right Band Edge



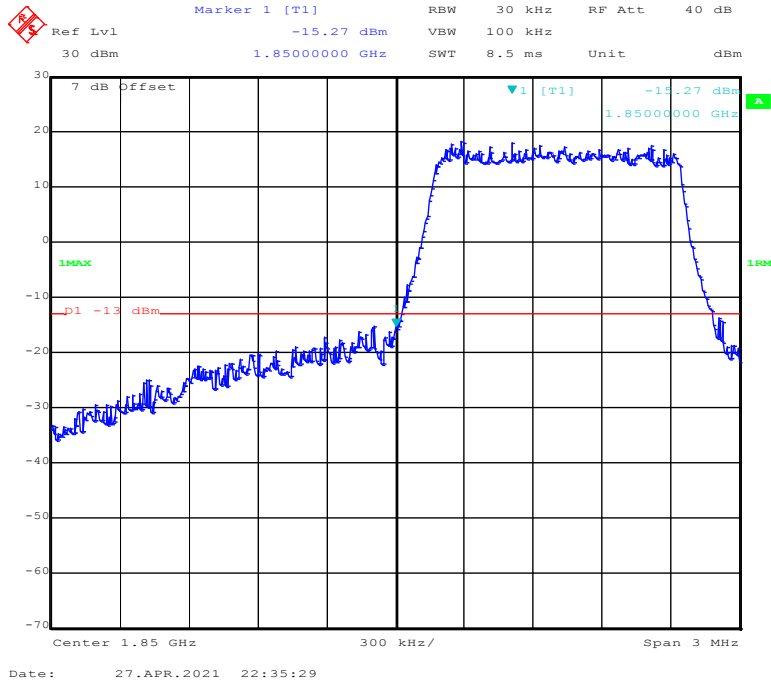
QPSK (20 MHz, FULL RB) - Left Band Edge



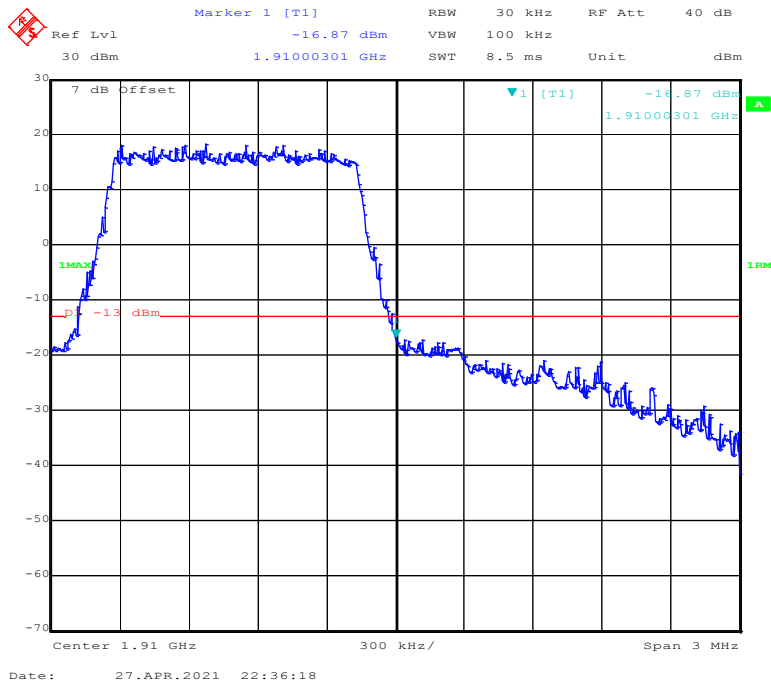
QPSK (20 MHz, FULL RB) - Right Band Edge



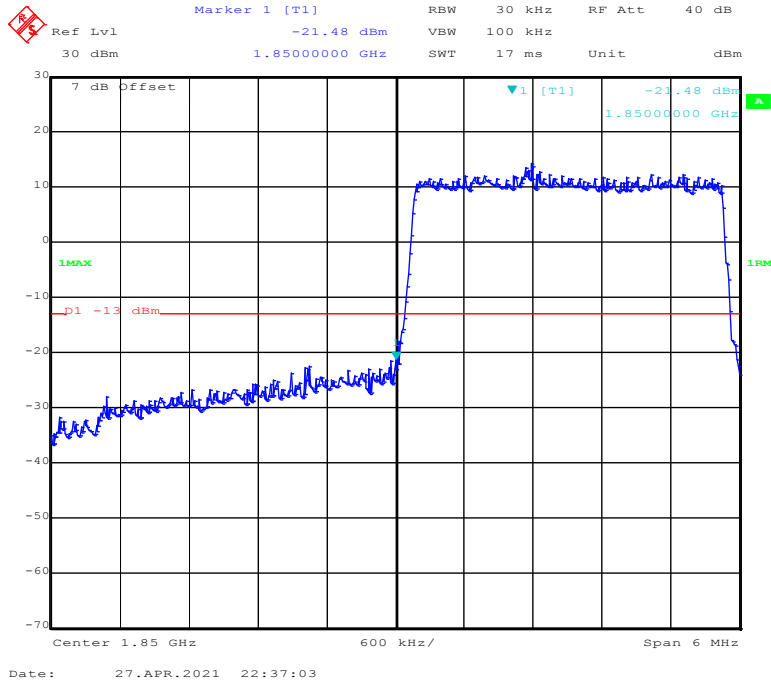
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



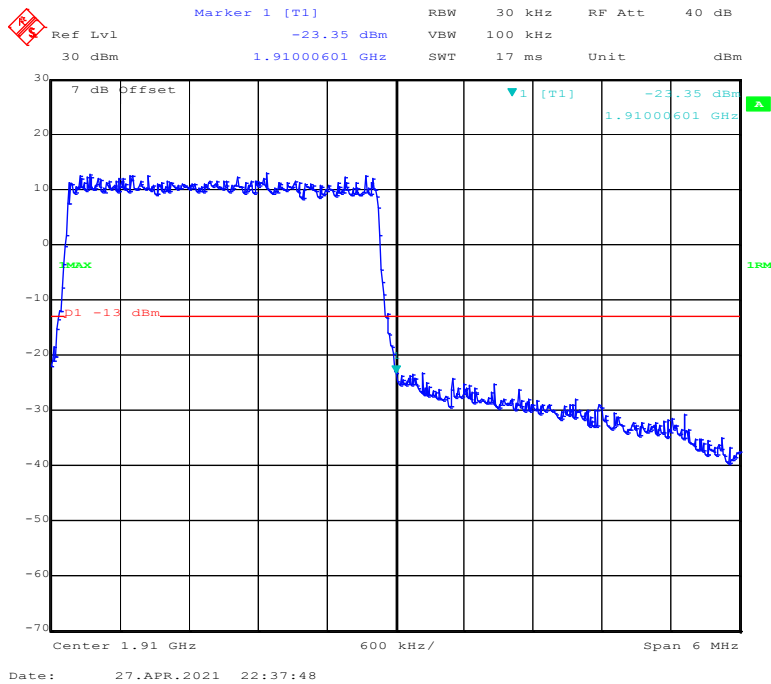
16-QAM (1.4 MHz, FULL RB) - Right Band Edge



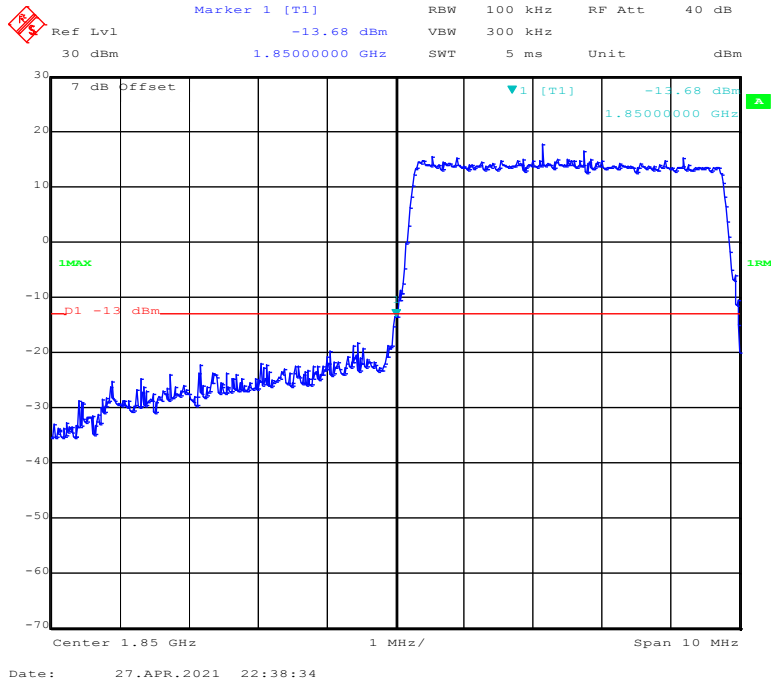
16-QAM (3 MHz, FULL RB) - Left Band Edge



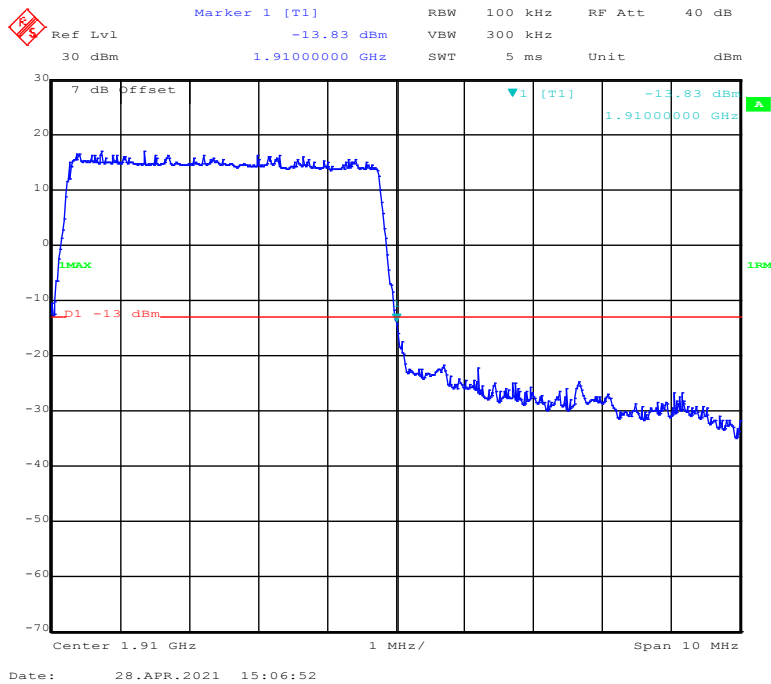
16-QAM (3 MHz, FULL RB) - Right Band Edge



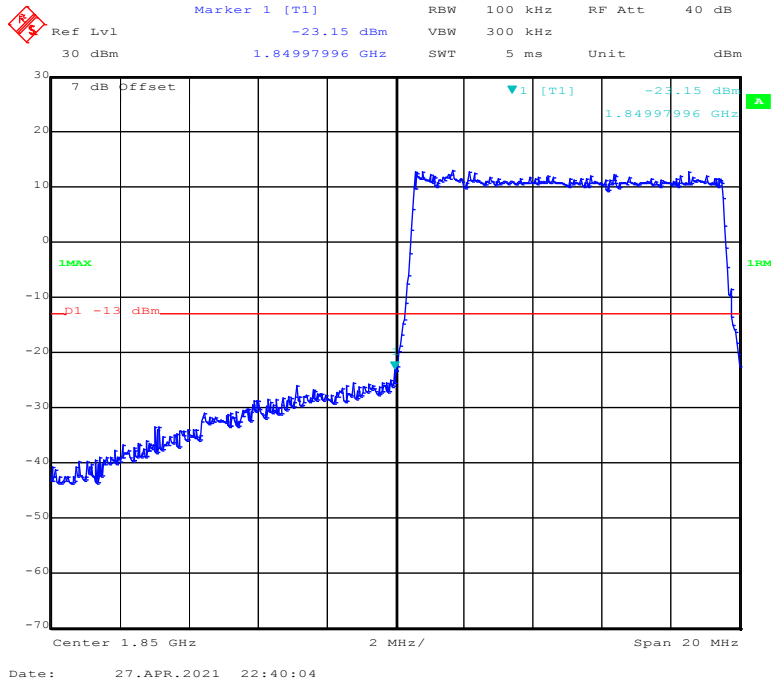
16-QAM (5 MHz, FULL RB) - Left Band Edge



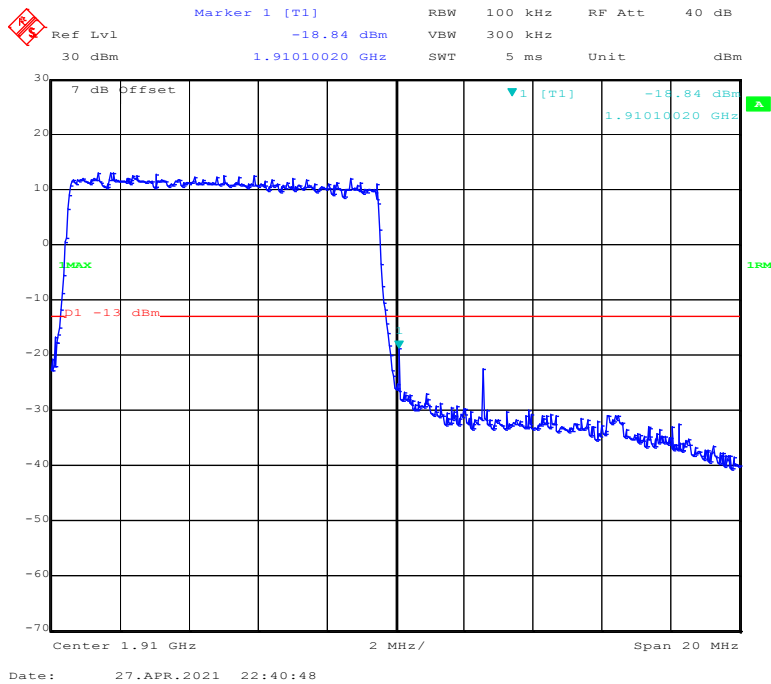
16-QAM (5 MHz, FULL RB) - Right Band Edge



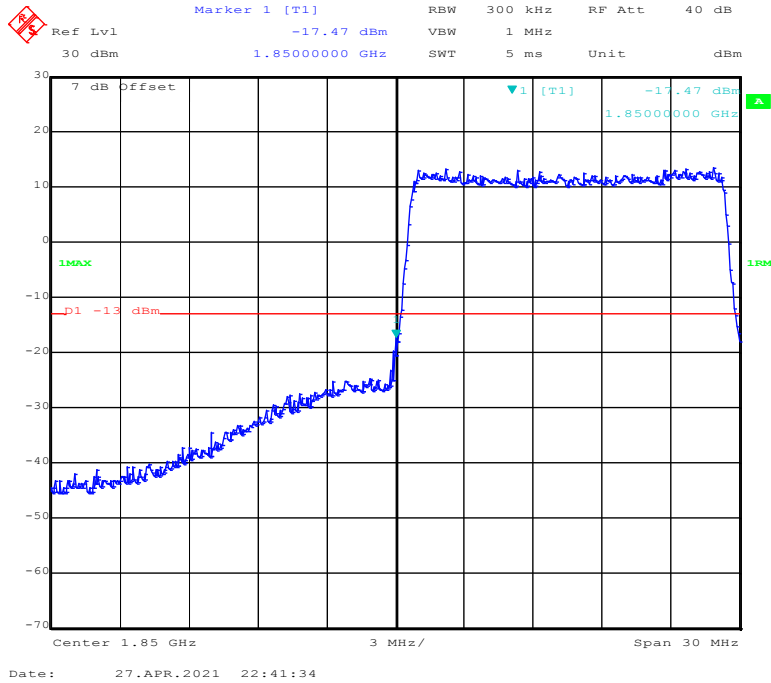
16-QAM (10 MHz, FULL RB) - Left Band Edge



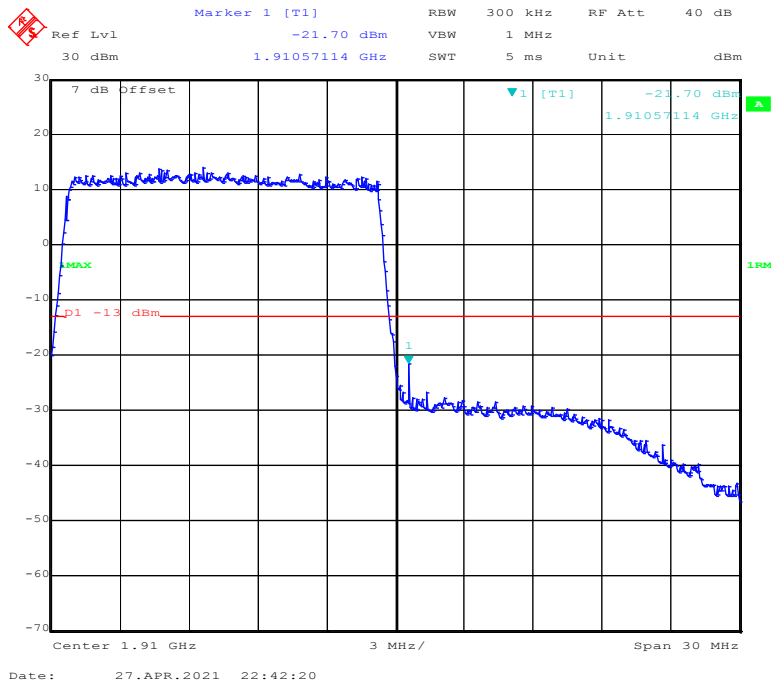
16-QAM (10 MHz, FULL RB) - Right Band Edge



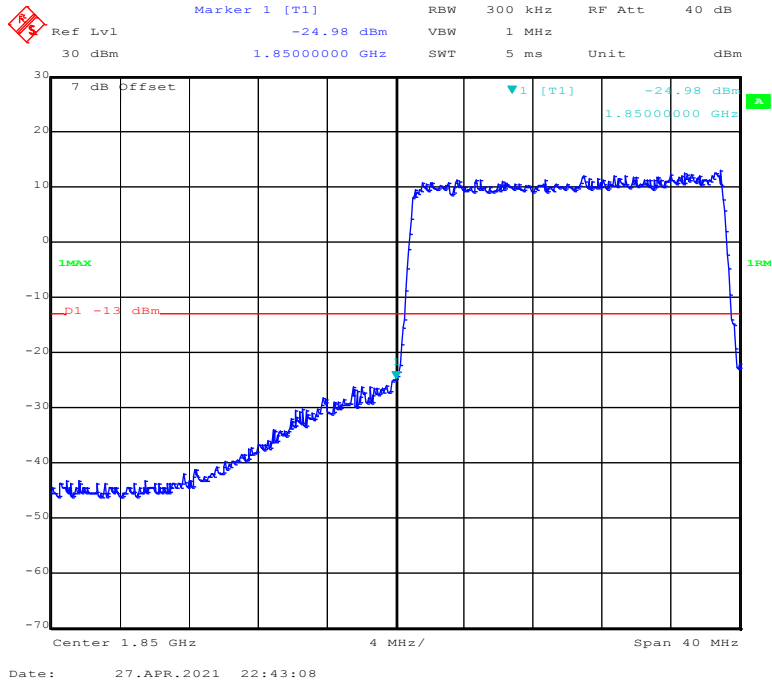
16-QAM (15 MHz, FULL RB) - Left Band Edge



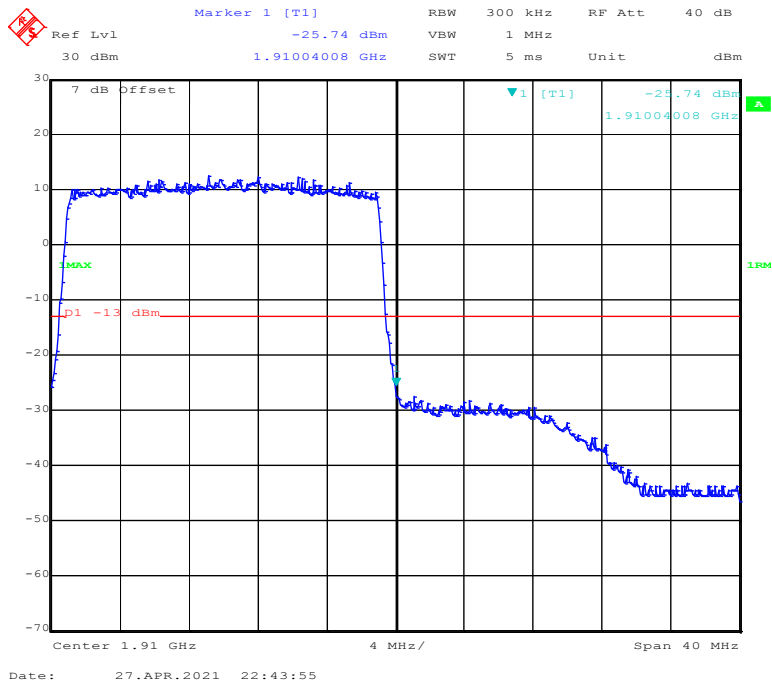
16-QAM (15 MHz, FULL RB) - Right Band Edge



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

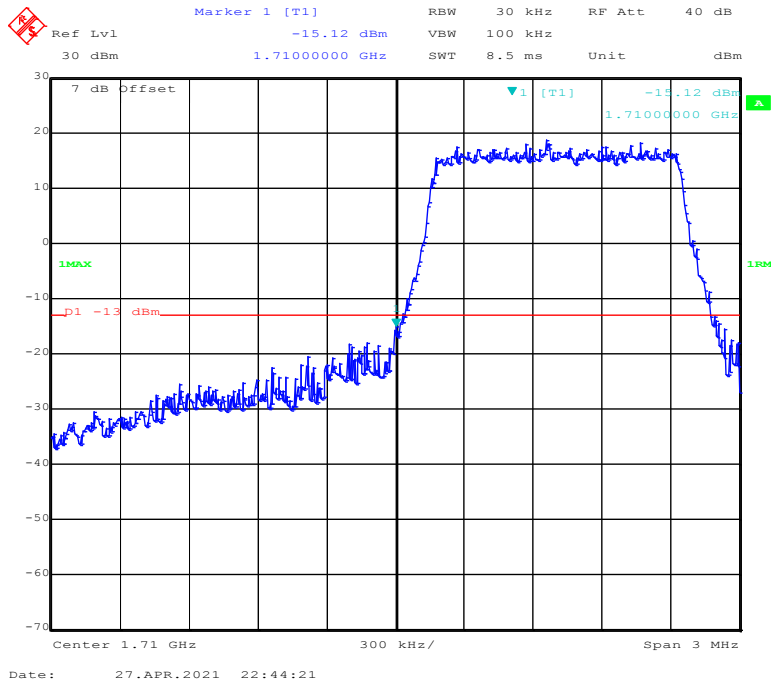


16-QAM (20 MHz, FULL RB) - Right Band Edge

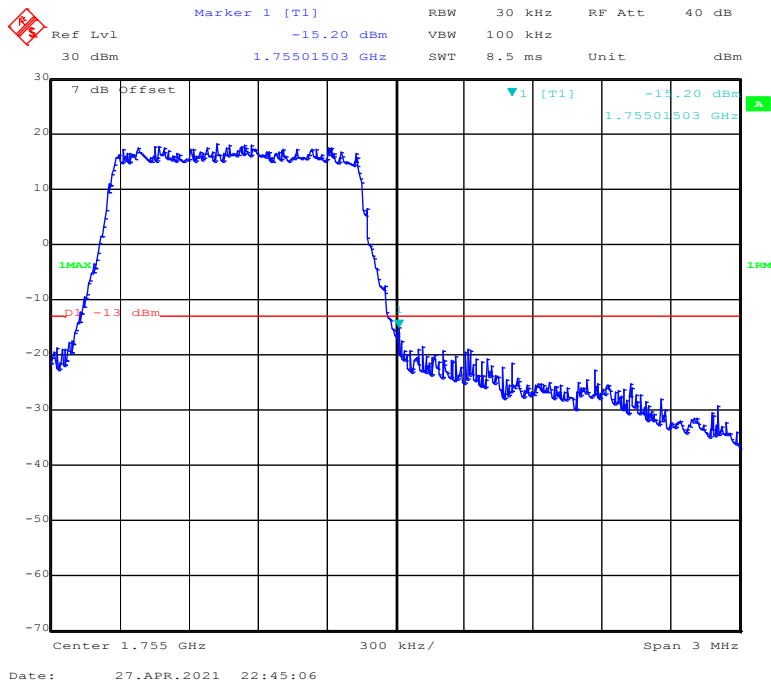


LTE Band 4:

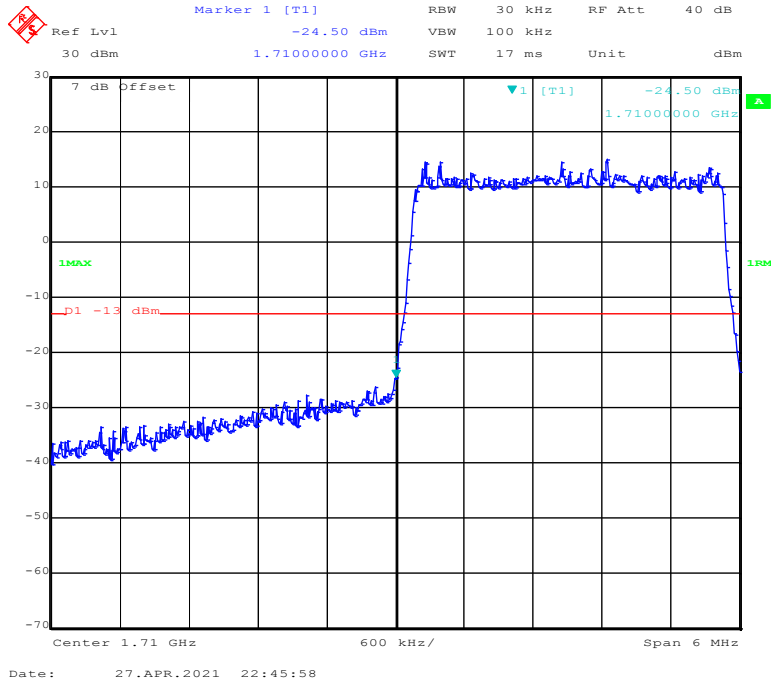
QPSK (1.4 MHz, FULL RB) - Left Band Edge



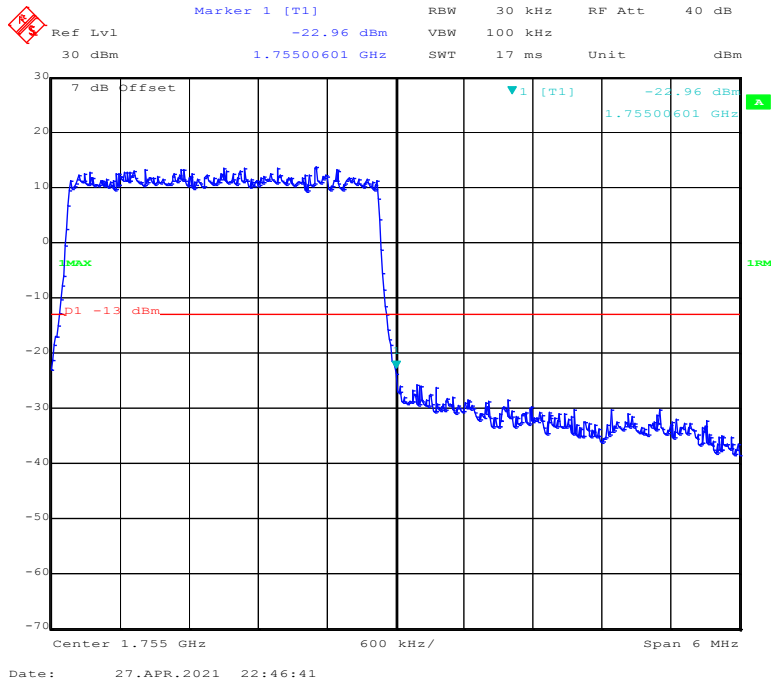
QPSK (1.4 MHz, FULL RB) - Right Band Edge



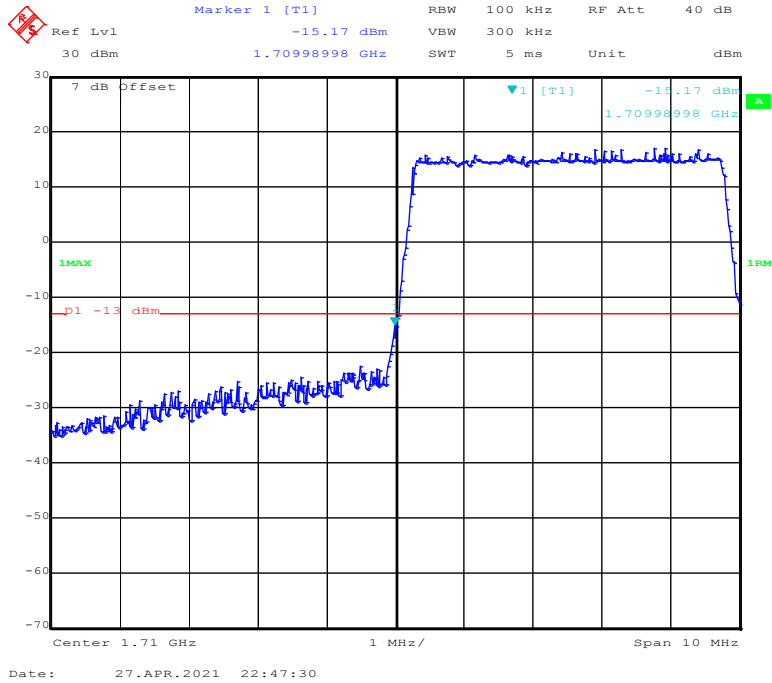
QPSK (3 MHz, FULL RB) - Left Band Edge



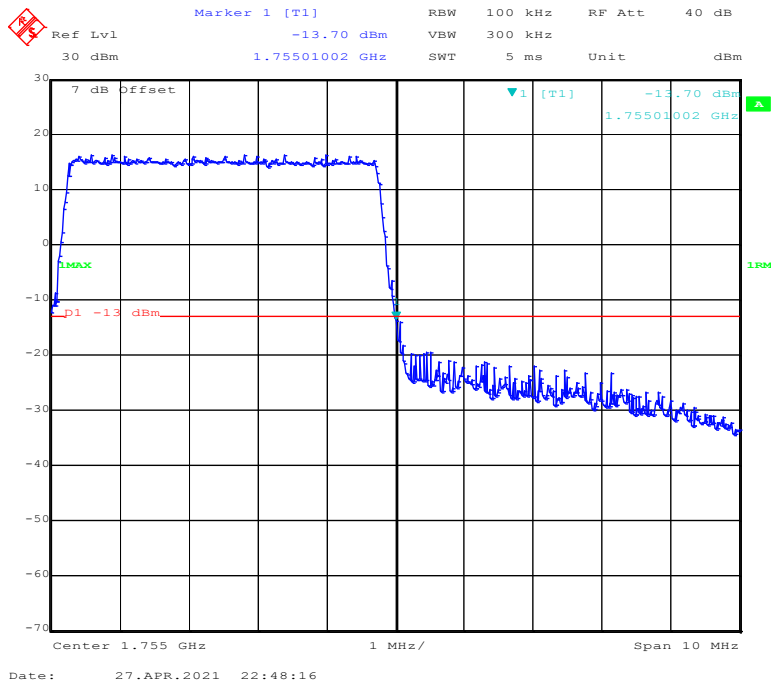
QPSK (3 MHz, FULL RB) - Right Band Edge



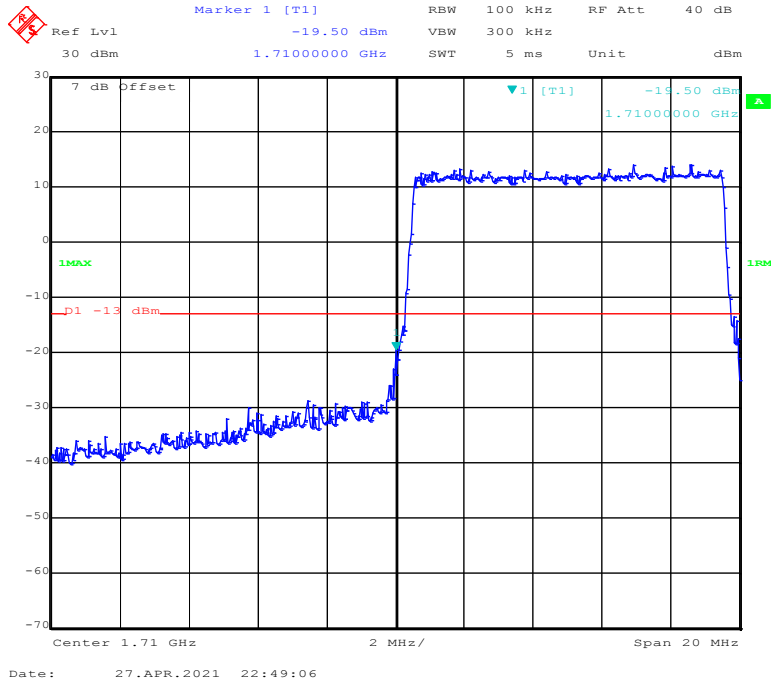
QPSK (5 MHz, FULL RB) - Left Band Edge



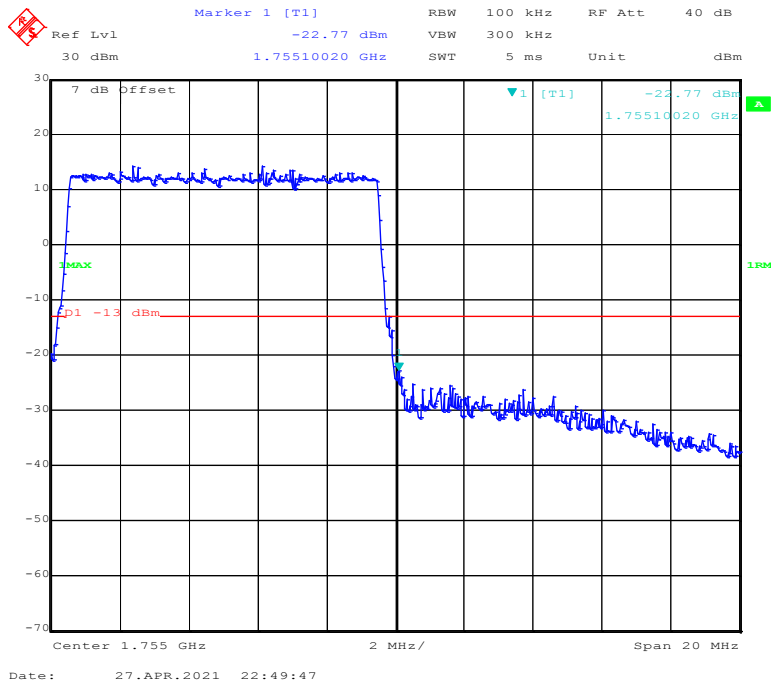
QPSK (5 MHz, FULL RB) - Right Band Edge



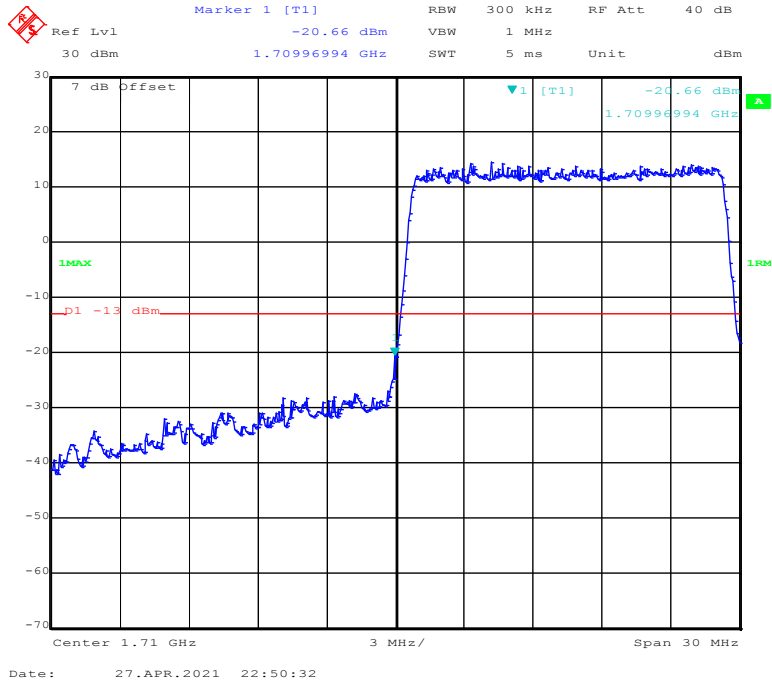
QPSK (10 MHz, FULL RB) - Left Band Edge



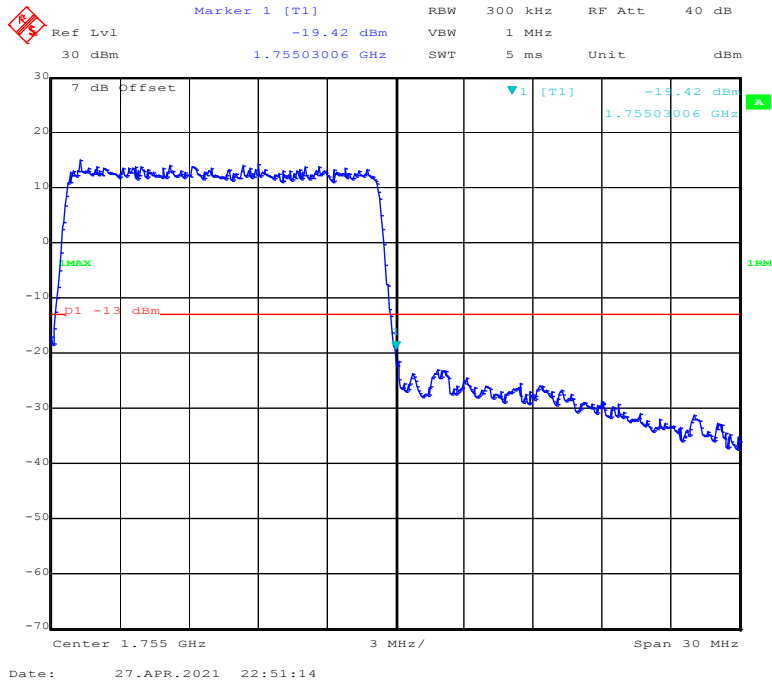
QPSK (10 MHz, FULL RB) - Right Band Edge



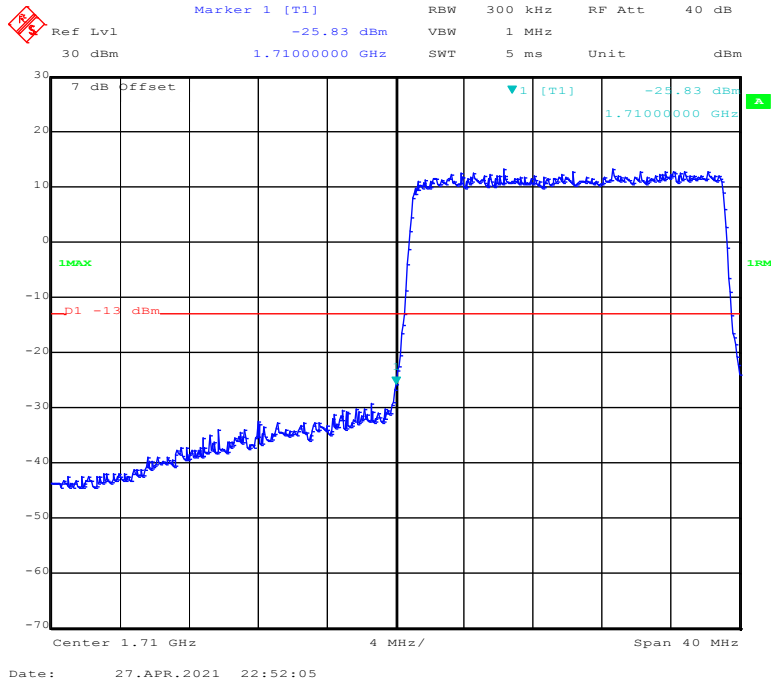
QPSK (15 MHz, FULL RB) - Left Band Edge



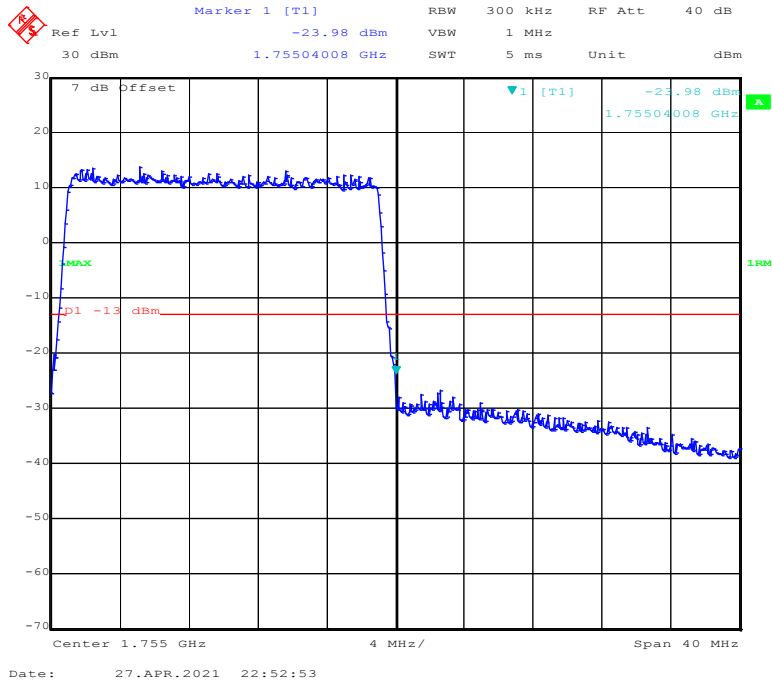
QPSK (15 MHz, FULL RB) - Right Band Edge



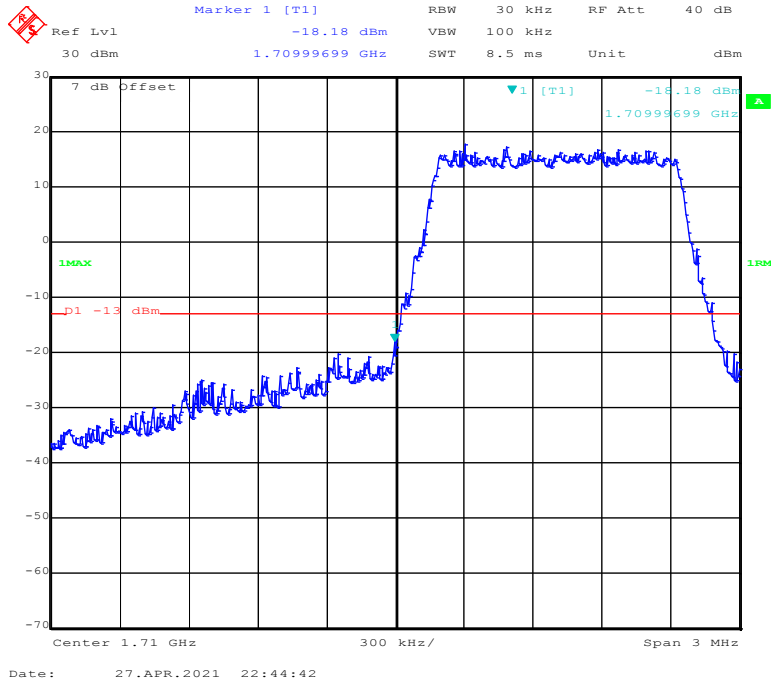
QPSK (20 MHz, FULL RB) - Left Band Edge



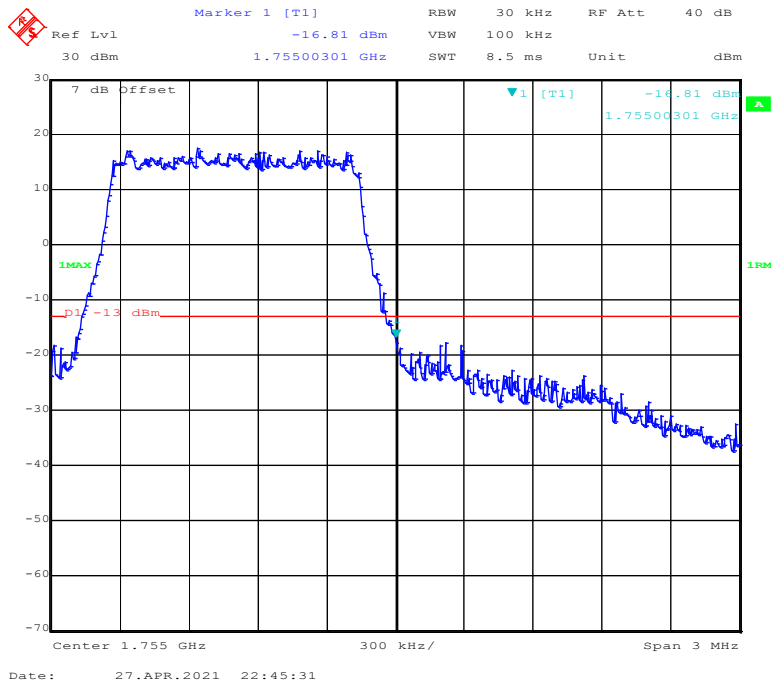
QPSK (20 MHz, FULL RB) - Right Band Edge



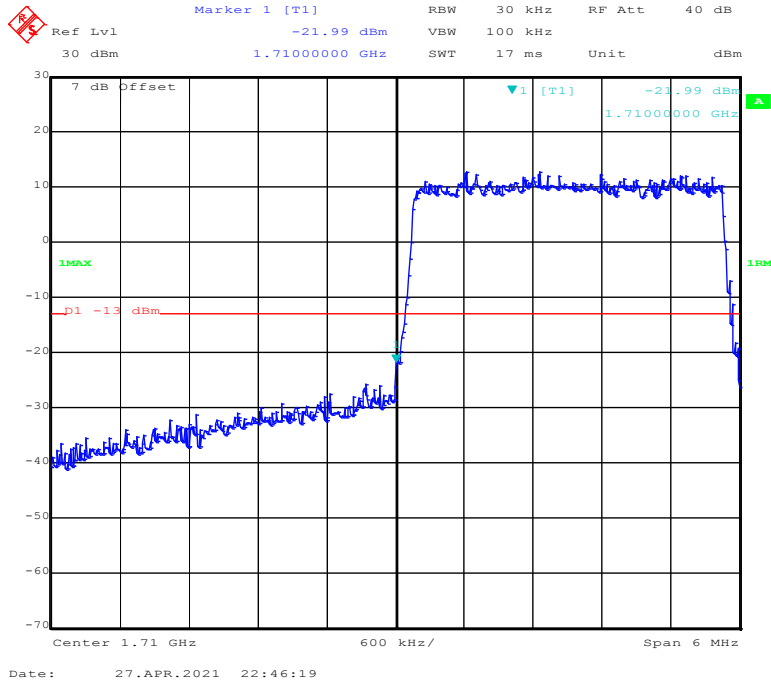
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



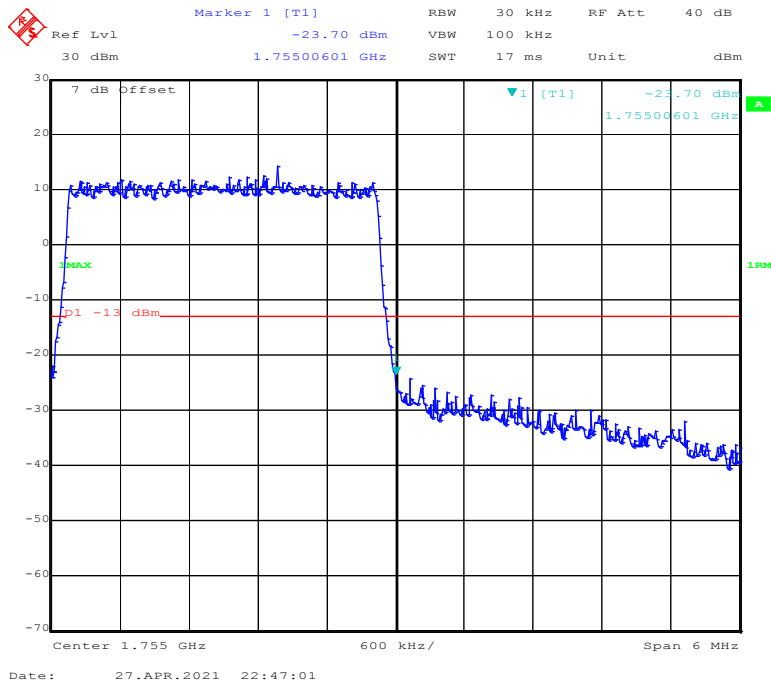
16-QAM (1.4 MHz, FULL RB) - Right Band Edge



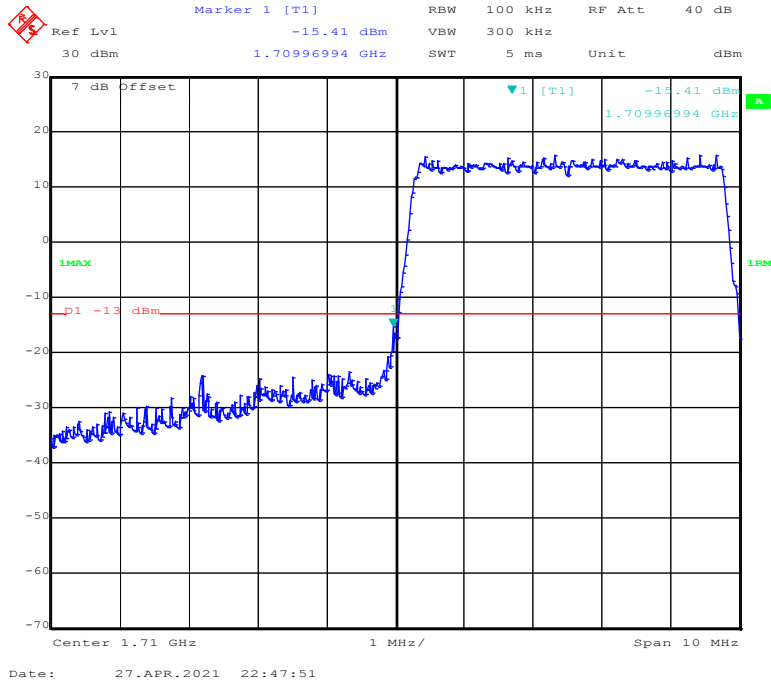
16-QAM (3 MHz, FULL RB) - Left Band Edge



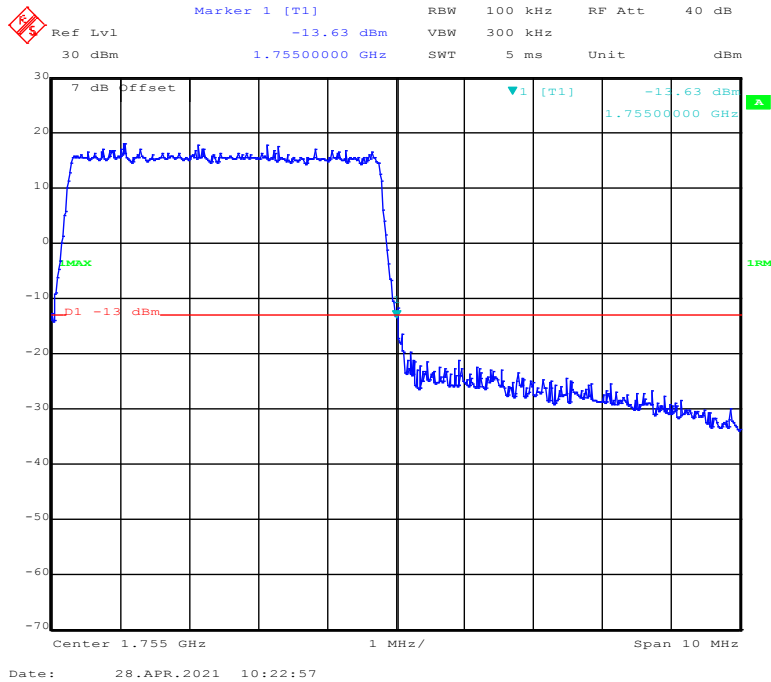
16-QAM (3 MHz, FULL RB) - Right Band Edge



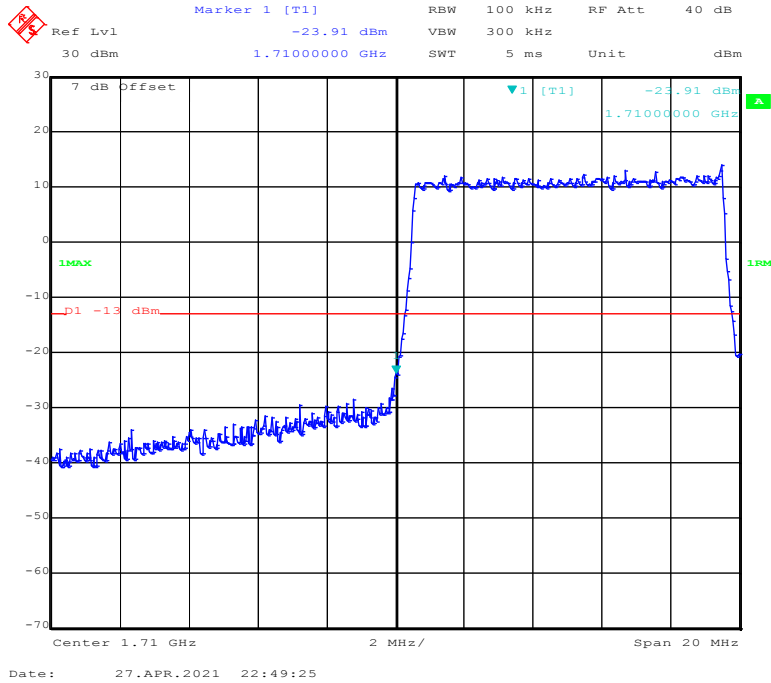
16-QAM (5 MHz, FULL RB) - Left Band Edge



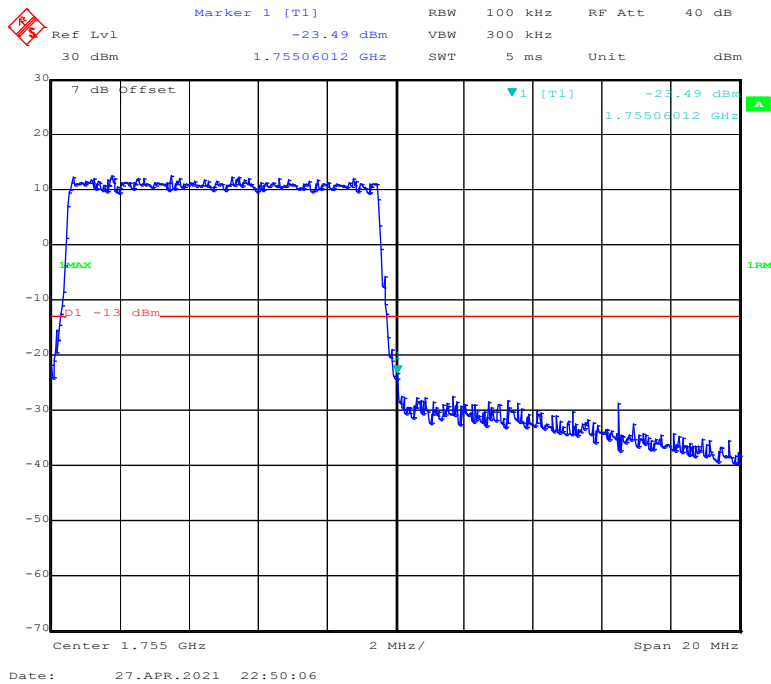
16-QAM (5 MHz, FULL RB) - Right Band Edge



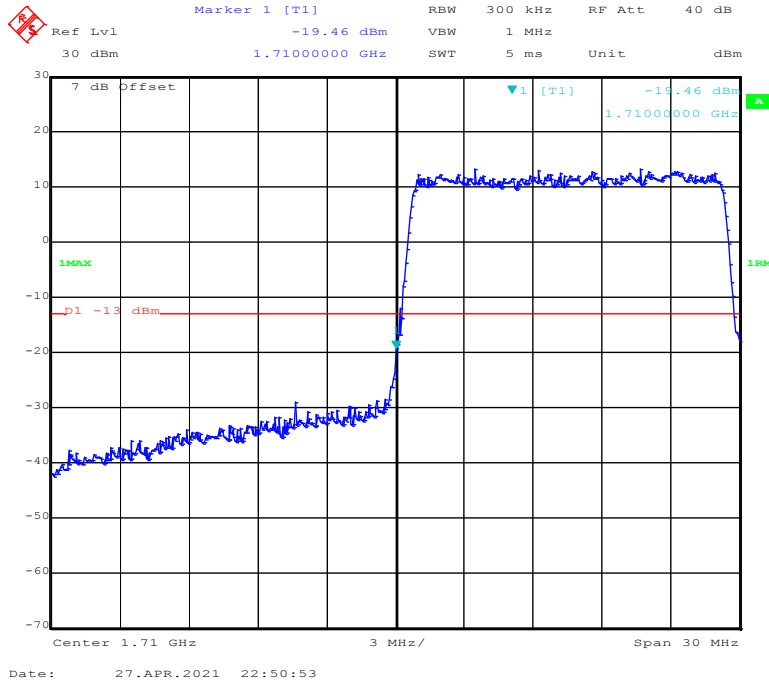
16-QAM (10 MHz, FULL RB) - Left Band Edge



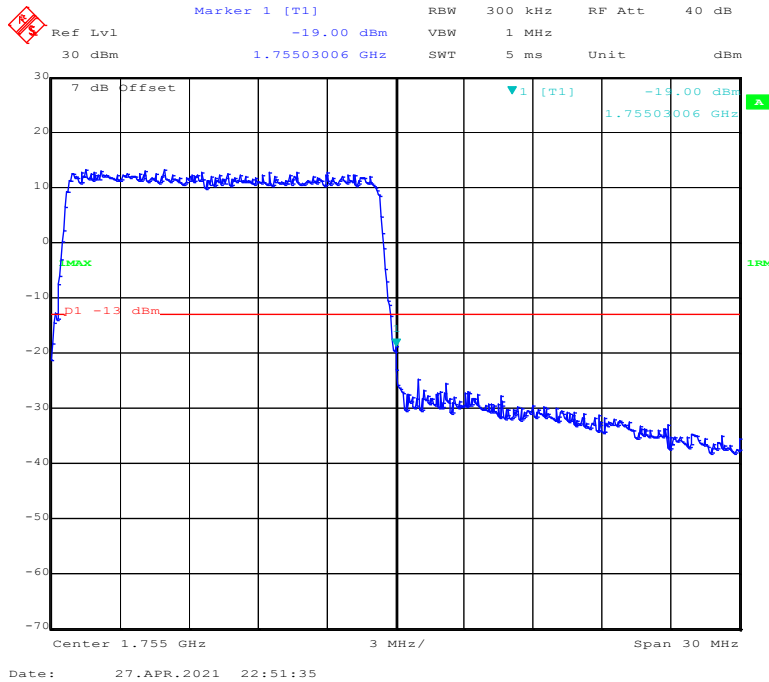
16-QAM (10 MHz, FULL RB) - Right Band Edge



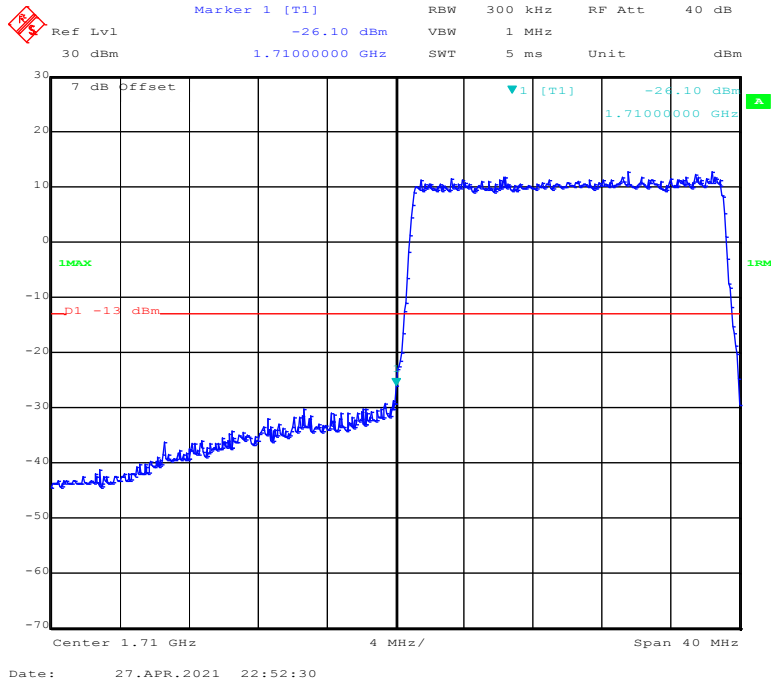
16-QAM (15 MHz, FULL RB) - Left Band Edge



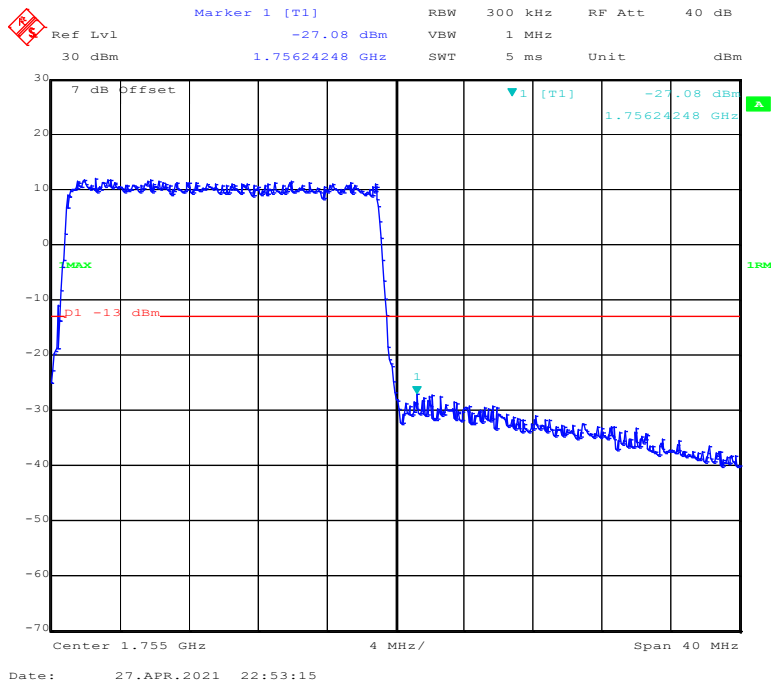
16-QAM (15 MHz, FULL RB) - Right Band Edge



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

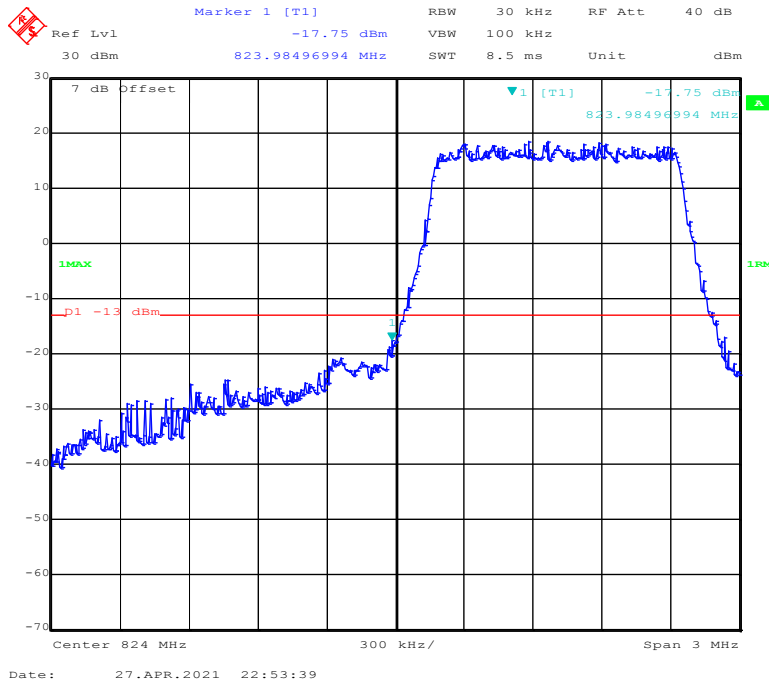


16-QAM (20 MHz, FULL RB) - Right Band Edge

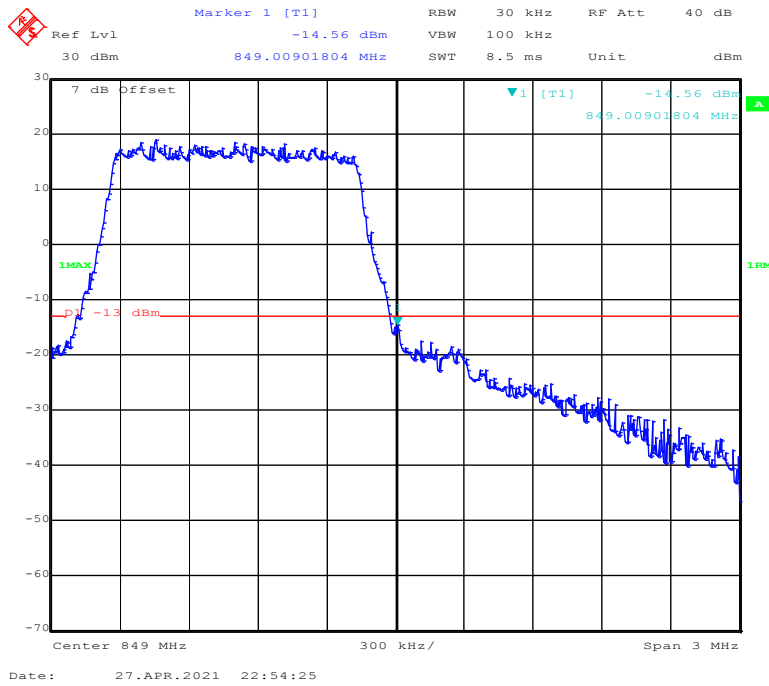


LTE Band 5:

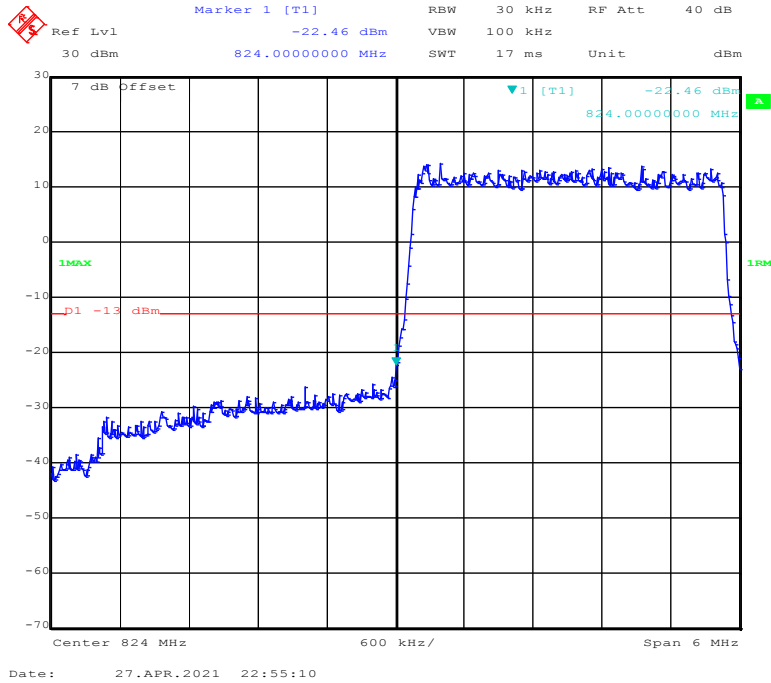
QPSK (1.4 MHz, FULL RB) - Left Band Edge



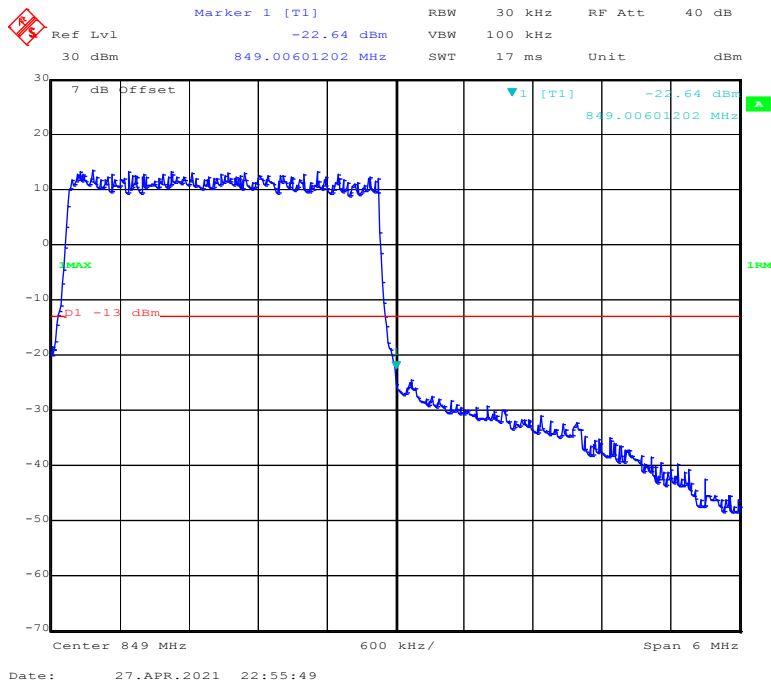
QPSK (1.4 MHz, FULL RB) - Right Band Edge



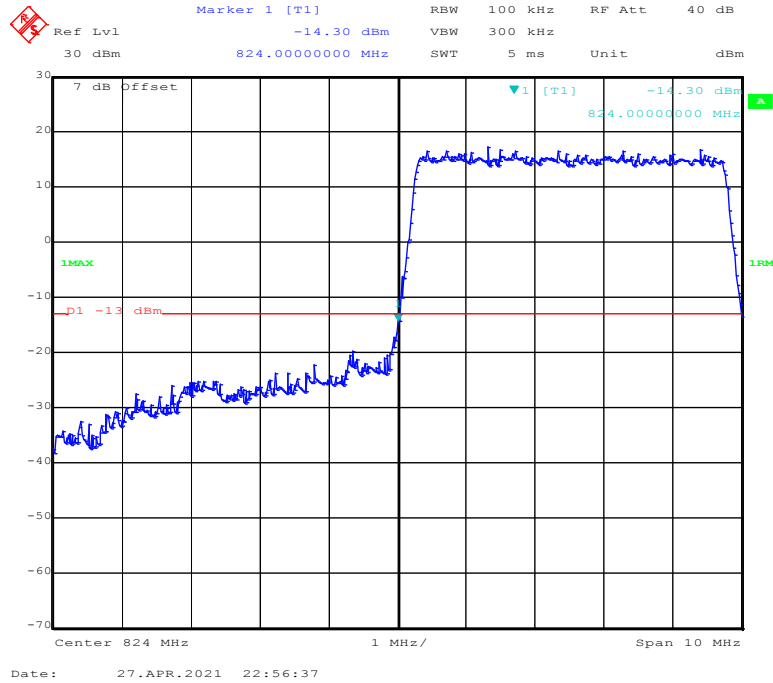
QPSK (3.0 MHz, FULL RB) - Left Band Edge



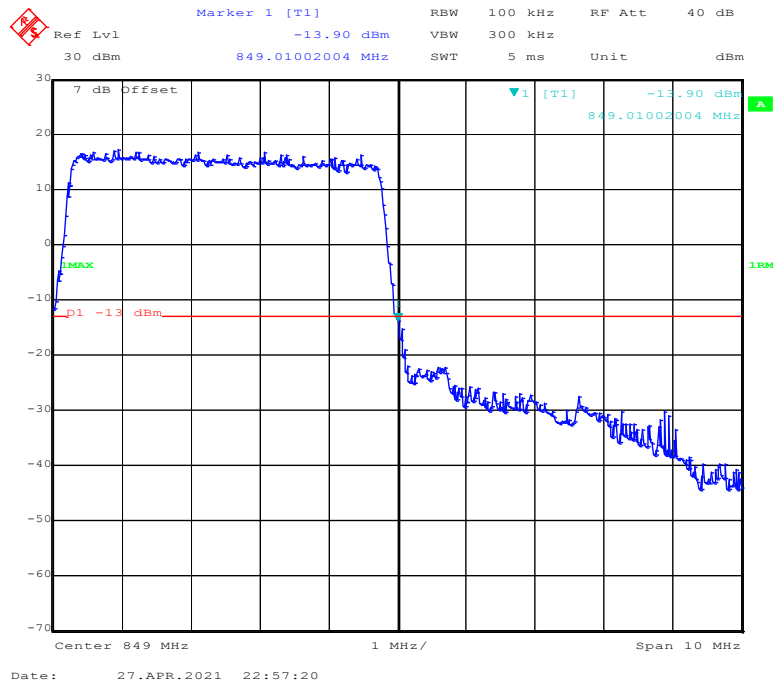
QPSK (3.0 MHz, FULL RB) - Right Band Edge



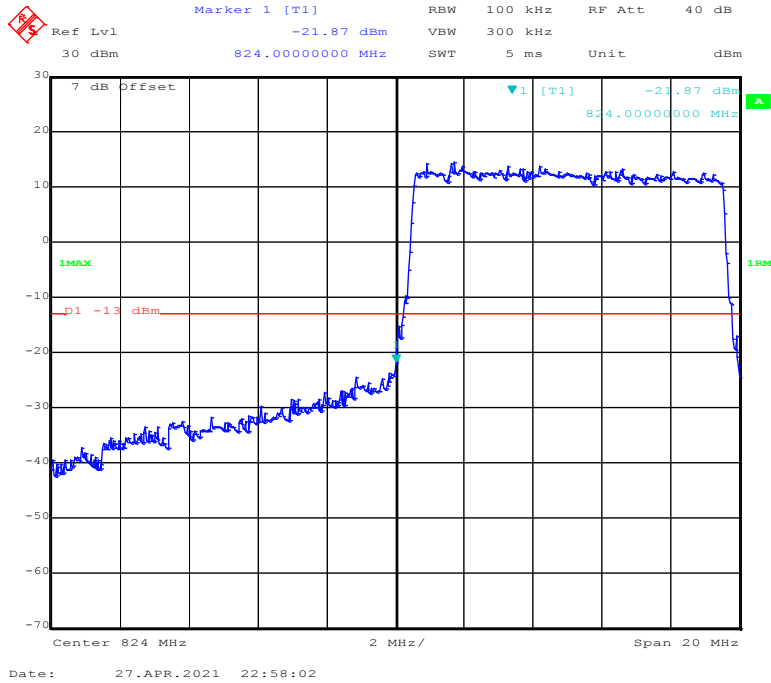
QPSK (5.0 MHz, FULL RB) - Left Band Edge



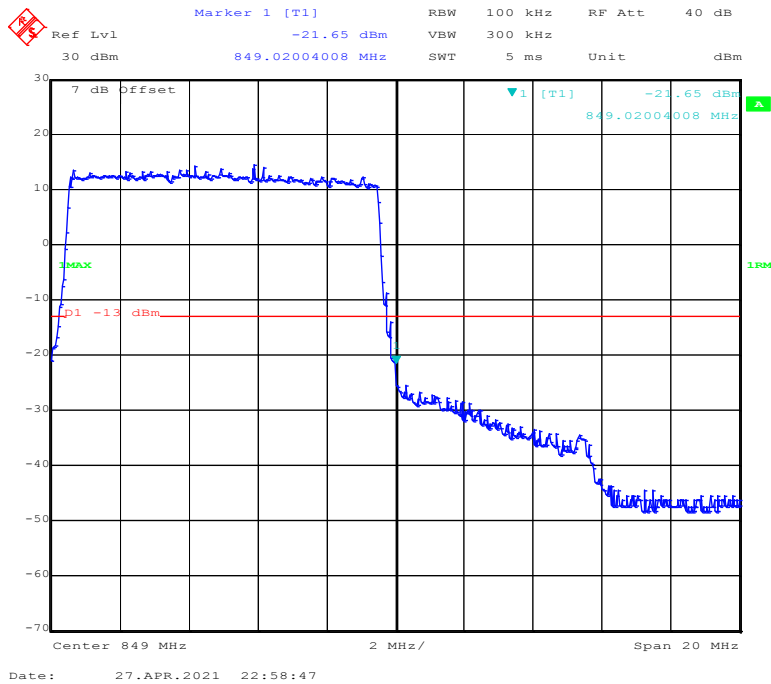
QPSK (5.0 MHz, FULL RB) - Right Band Edge



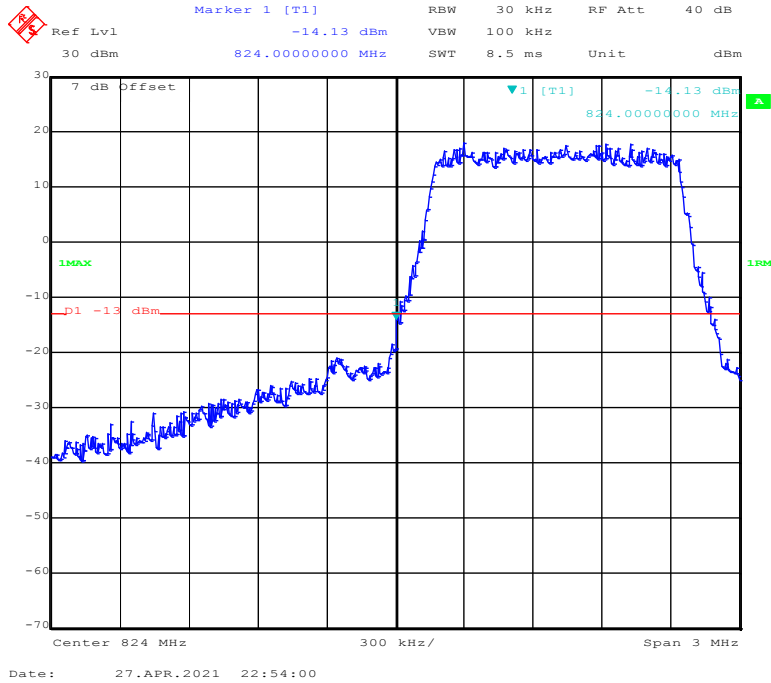
QPSK (10.0 MHz, FULL RB) - Left Band Edge



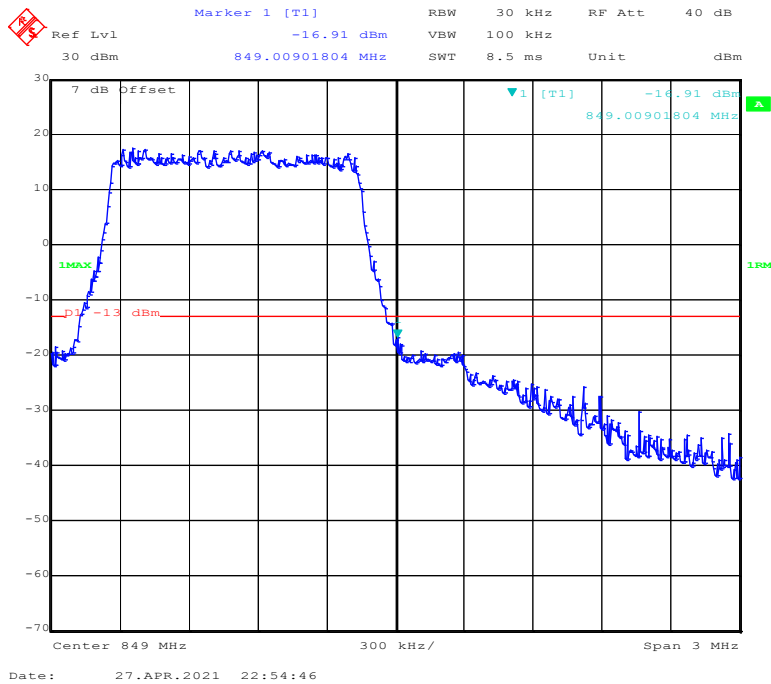
QPSK (10.0 MHz, FULL RB) - Right Band Edge



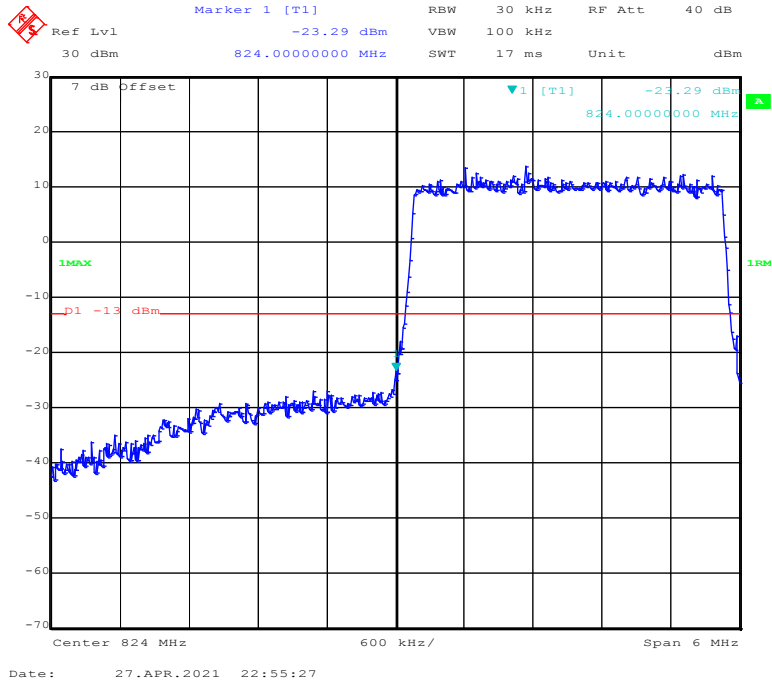
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



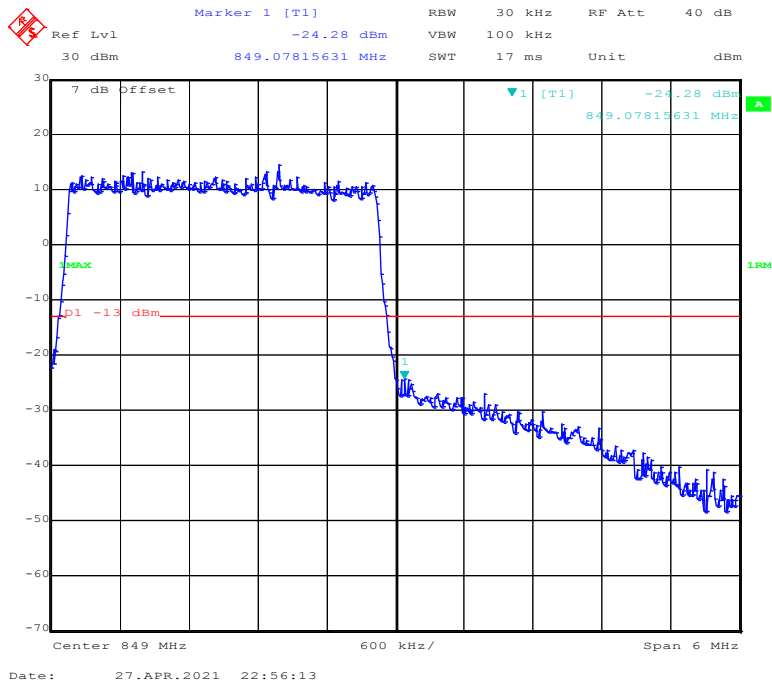
16-QAM (1.4 MHz, FULL RB) - Right Band Edge



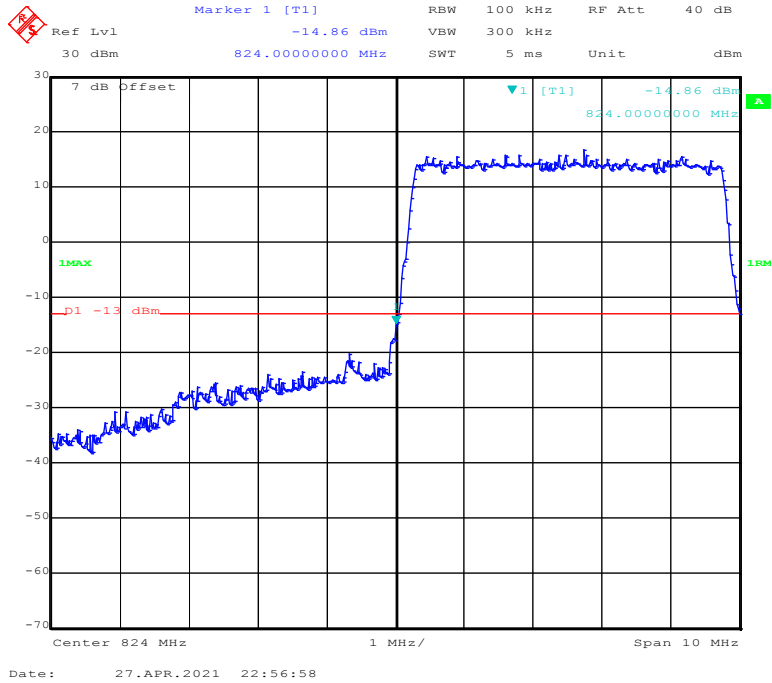
16-QAM (3.0 MHz, FULL RB) - Left Band Edge



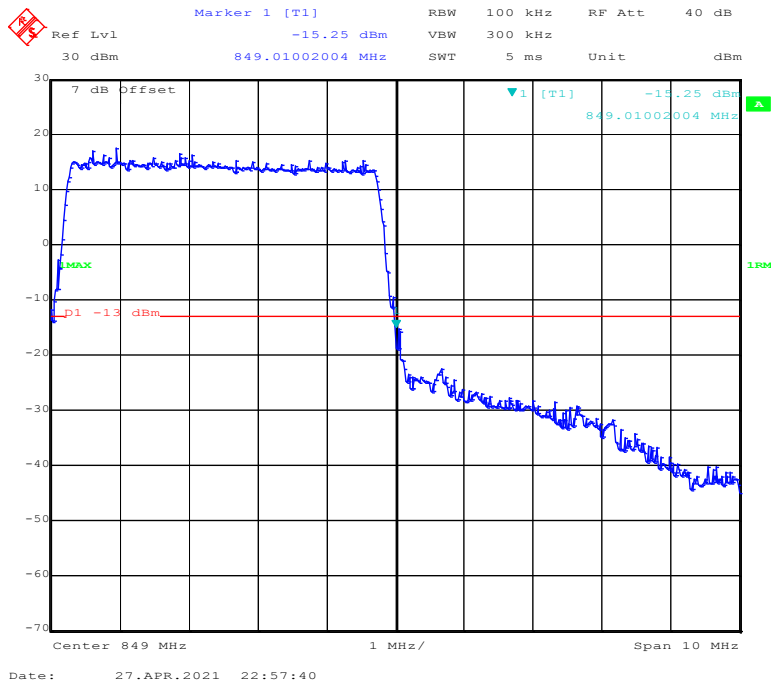
16-QAM (3.0 MHz, FULL RB) - Right Band Edge



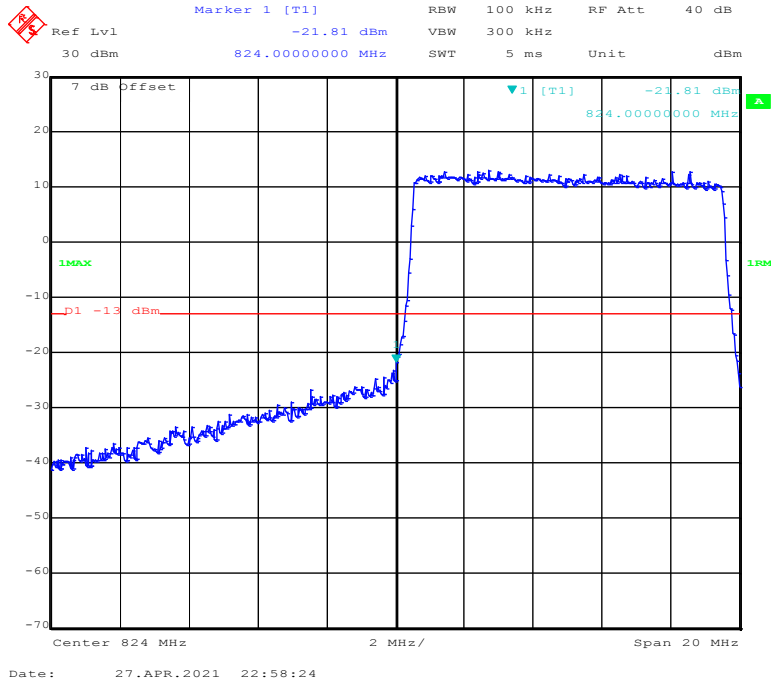
16-QAM (5.0 MHz, FULL RB) - Left Band Edge



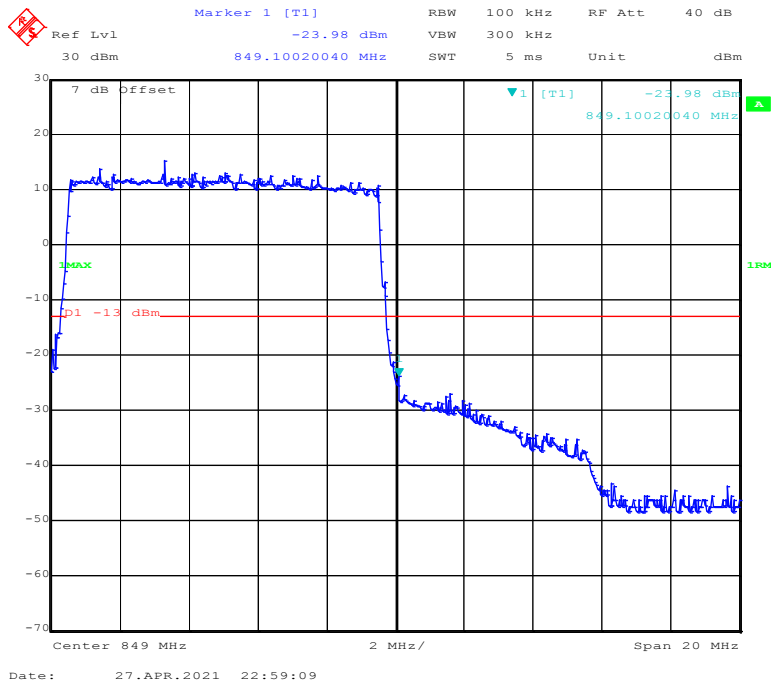
16-QAM (5.0 MHz, FULL RB) - Right Band Edge



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

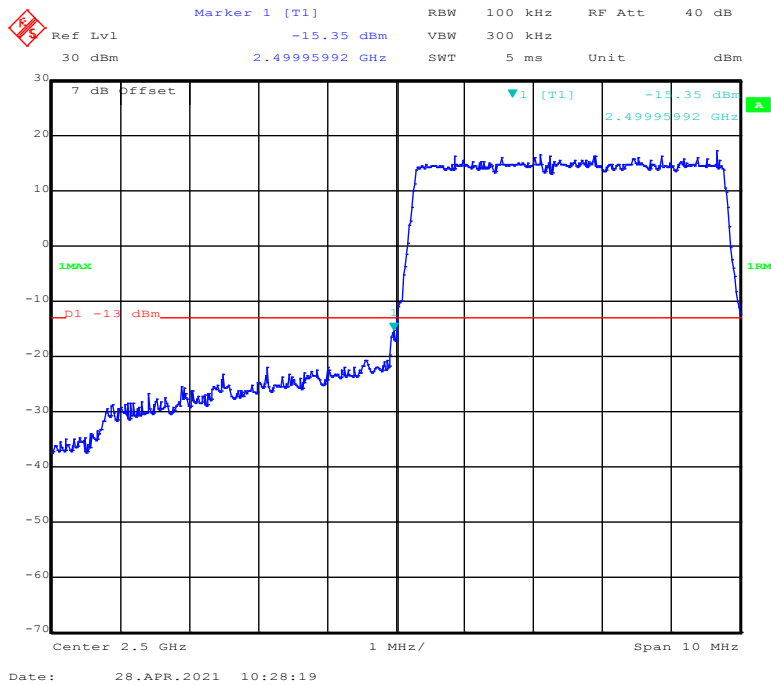


16-QAM (10.0 MHz, FULL RB) - Right Band Edge

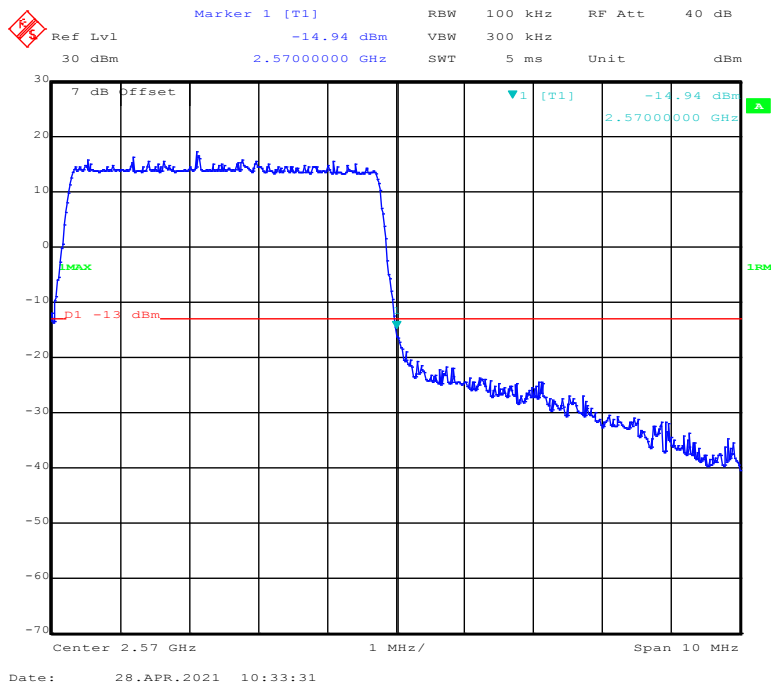


LTE Band 7:

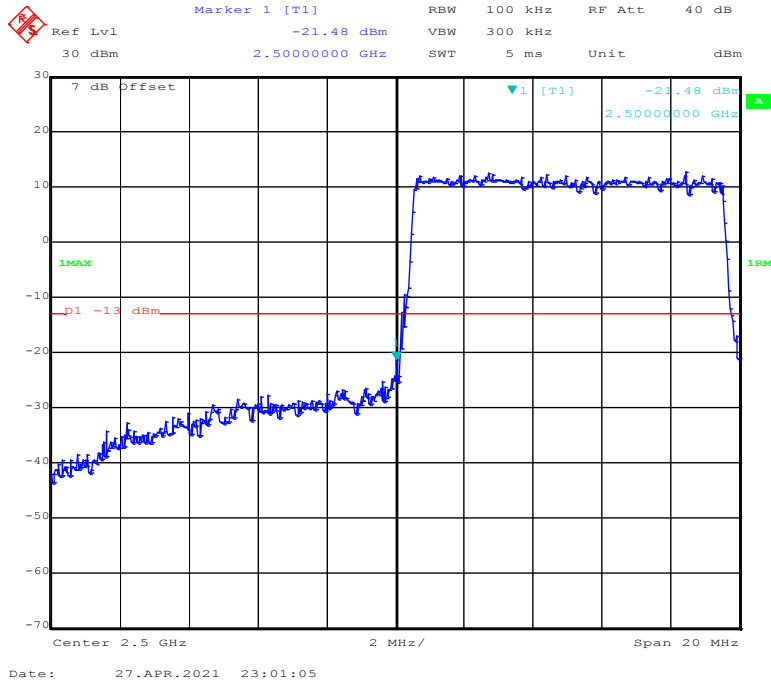
QPSK (5.0 MHz, FULL RB) - Left Band Edge



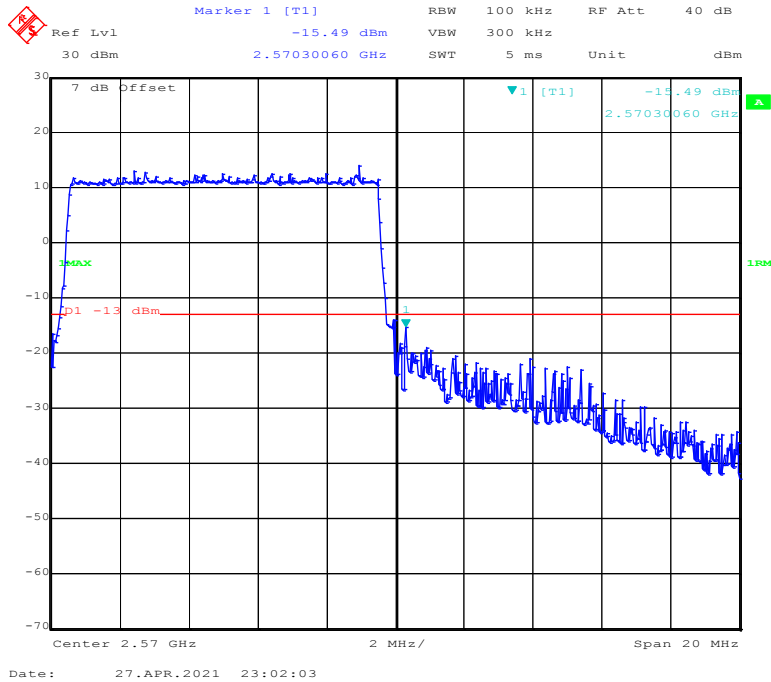
QPSK (5.0 MHz, FULL RB) - Right Band Edge



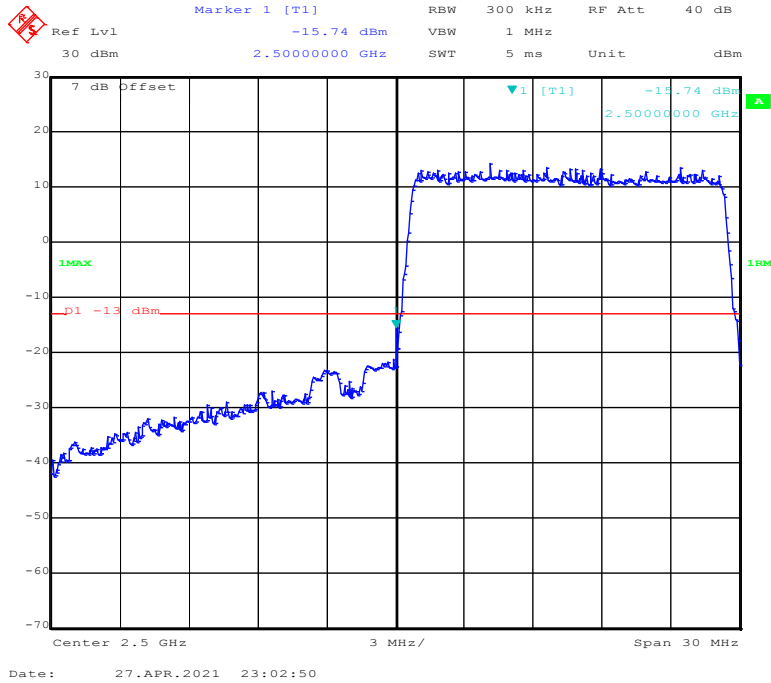
QPSK (10.0 MHz, FULL RB) - Left Band Edge



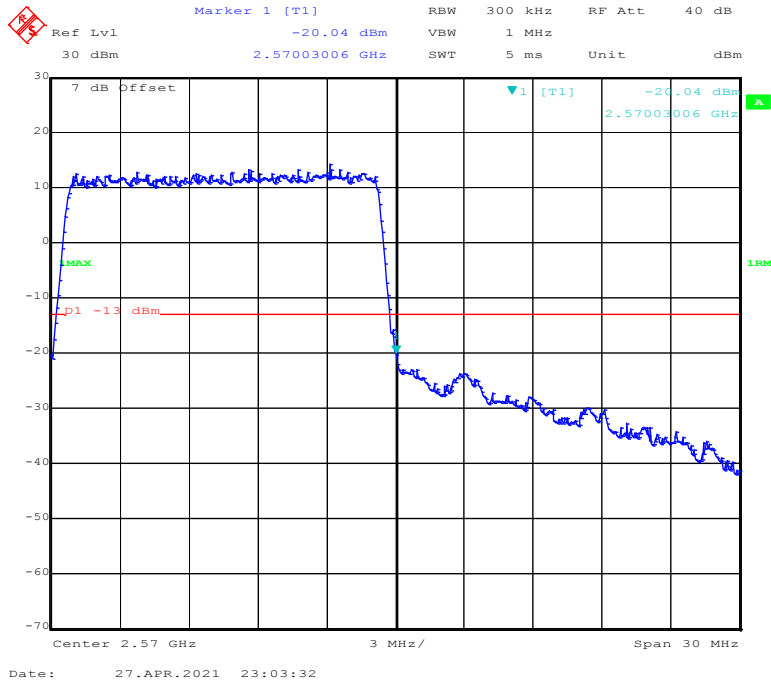
QPSK (10.0 MHz, FULL RB) - Right Band Edge



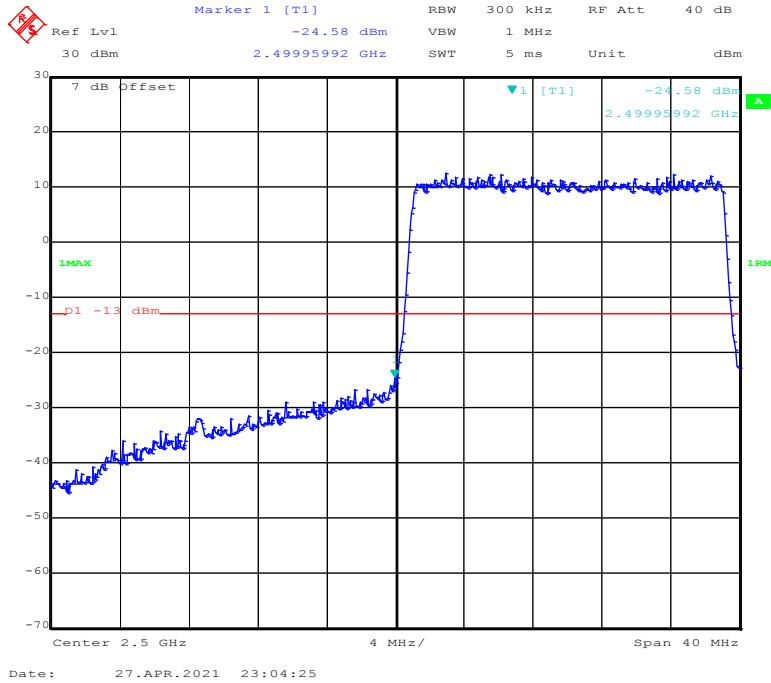
QPSK (15.0 MHz, FULL RB) - Left Band Edge



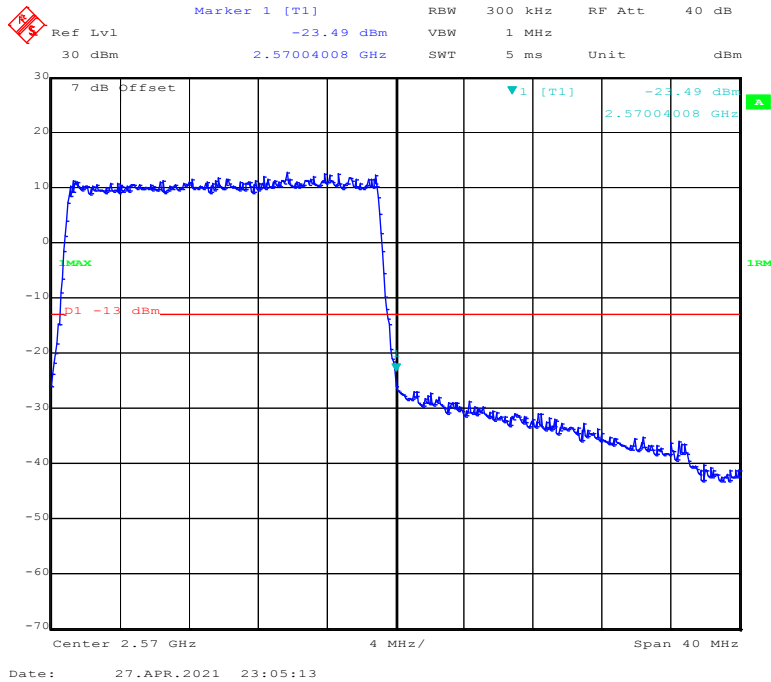
QPSK (15.0 MHz, FULL RB) - Right Band Edge



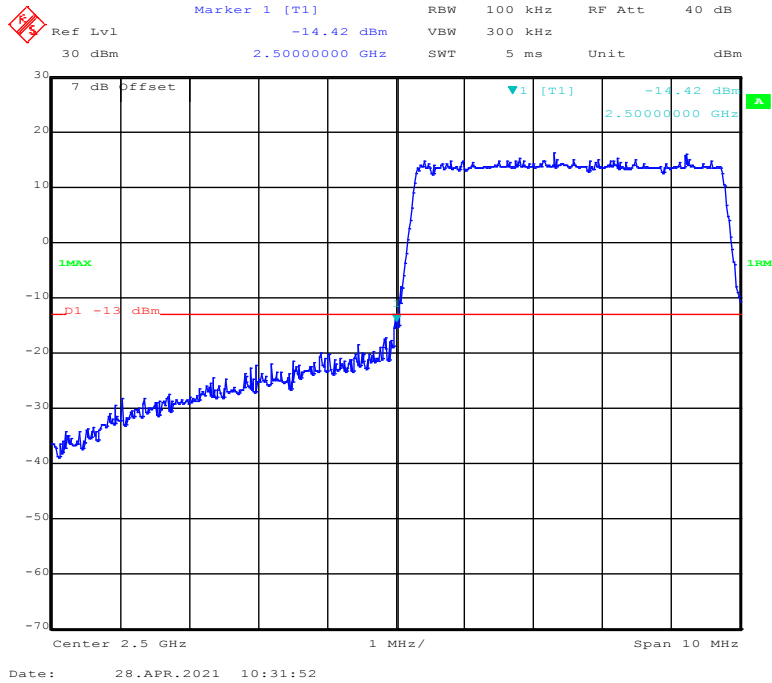
QPSK (20.0 MHz, FULL RB) - Left Band Edge



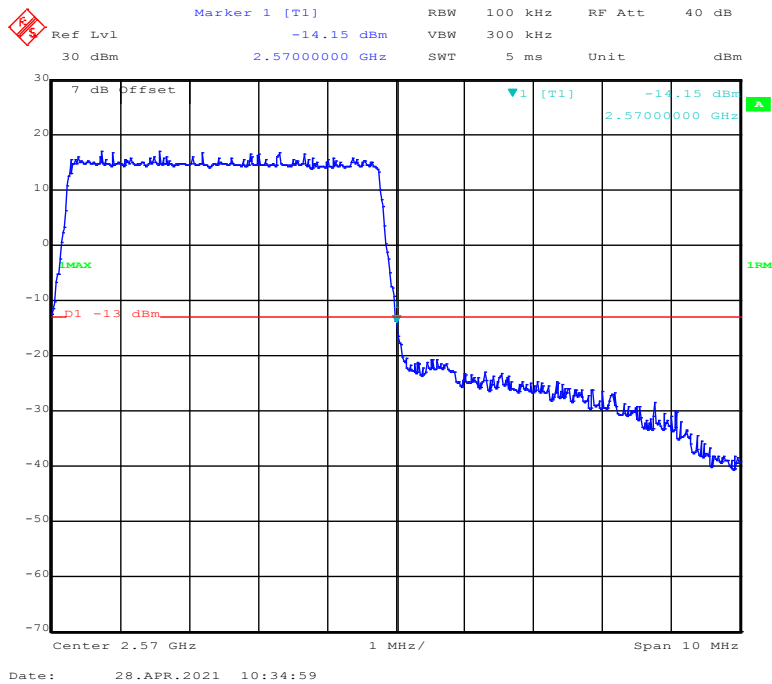
QPSK (20.0 MHz, FULL RB) - Right Band Edge



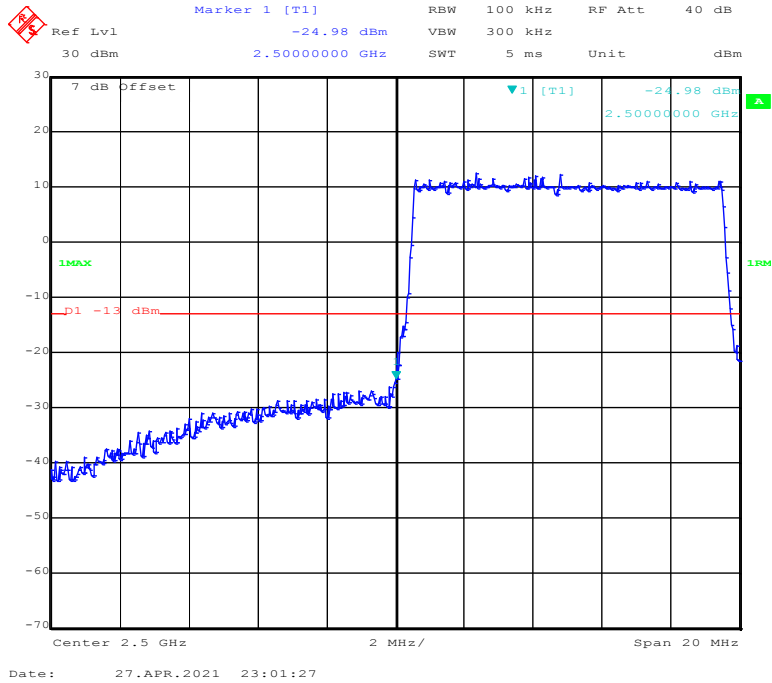
16-QAM (5.0 MHz, FULL RB) - Left Band Edge



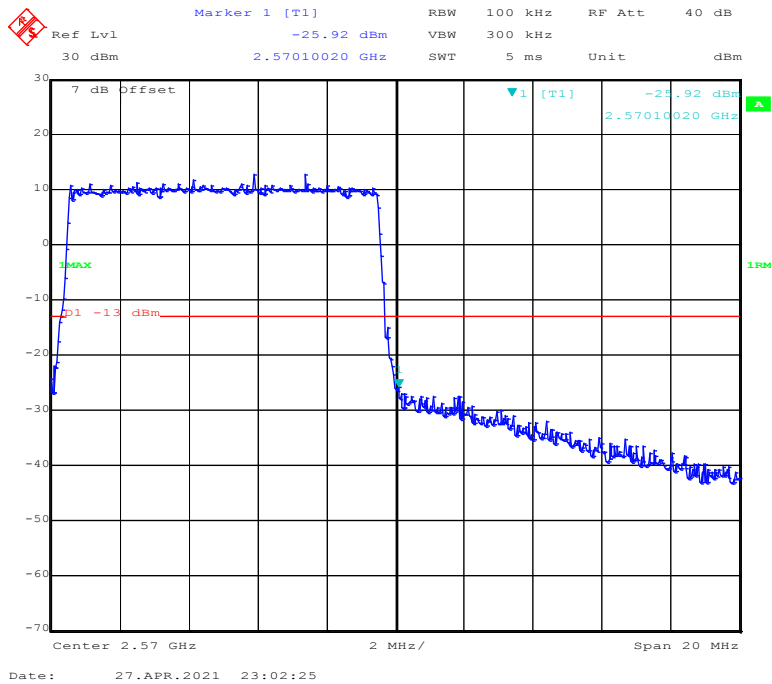
16-QAM (5.0 MHz, FULL RB) - Right Band Edge



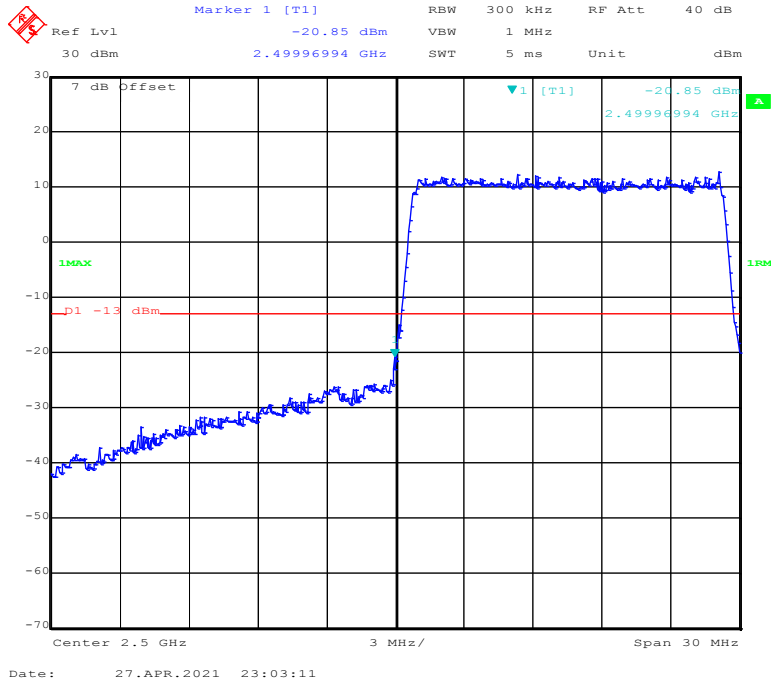
16-QAM (10.0 MHz, FULL RB) - Left Band Edge



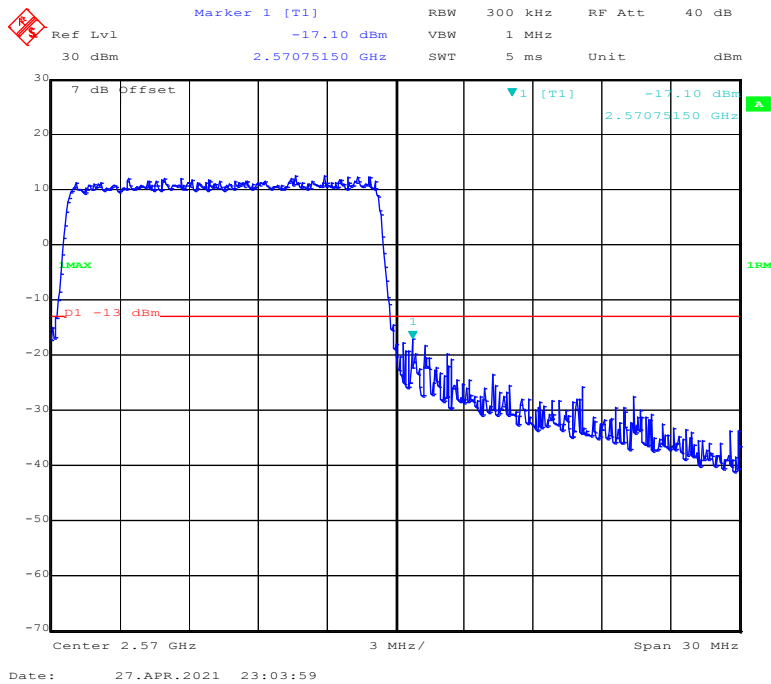
16-QAM (10.0 MHz, FULL RB) - Right Band Edge



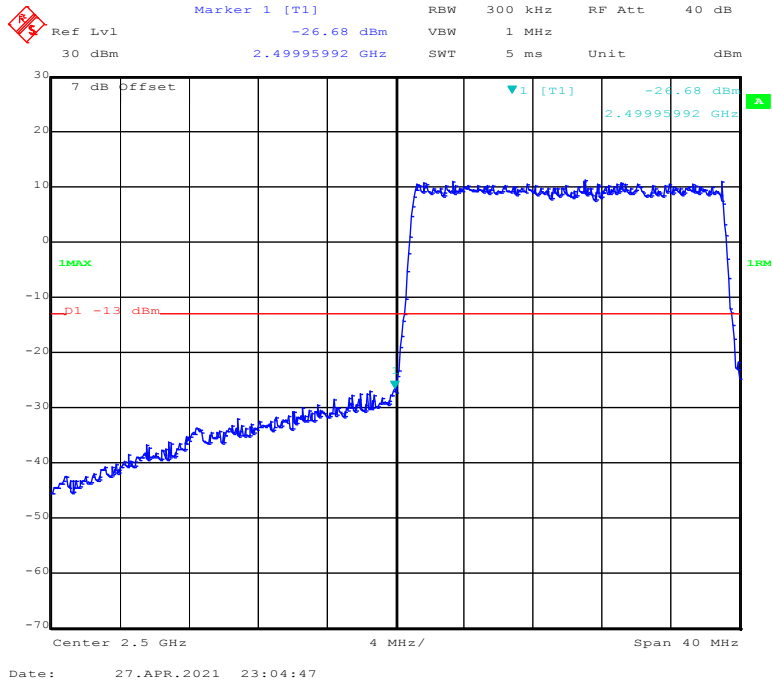
16-QAM (15.0 MHz, FULL RB) - Left Band Edge



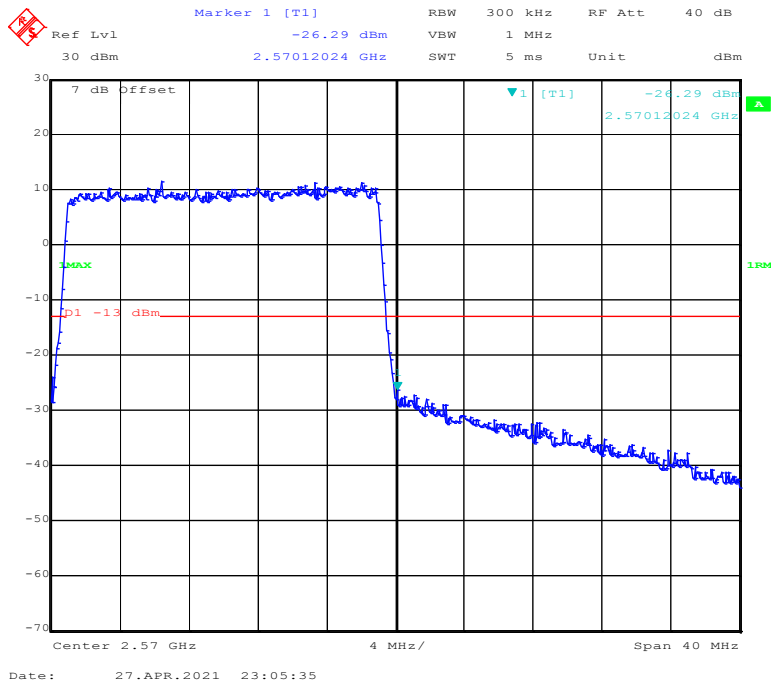
16-QAM (15.0 MHz, FULL RB) - Right Band Edge



16-QAM (20.0 MHz, FULL RB) - Left Band Edge

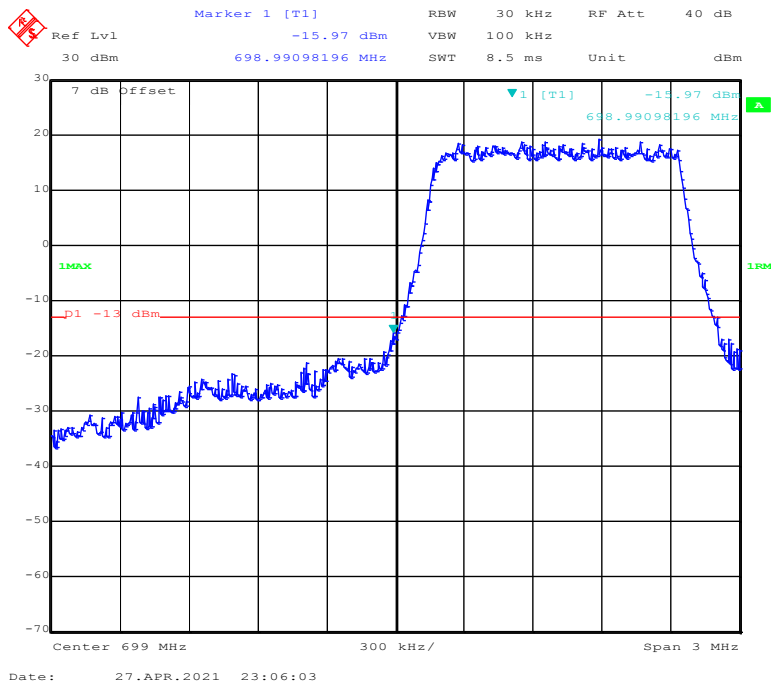


16-QAM (20.0 MHz, FULL RB) - Right Band Edge

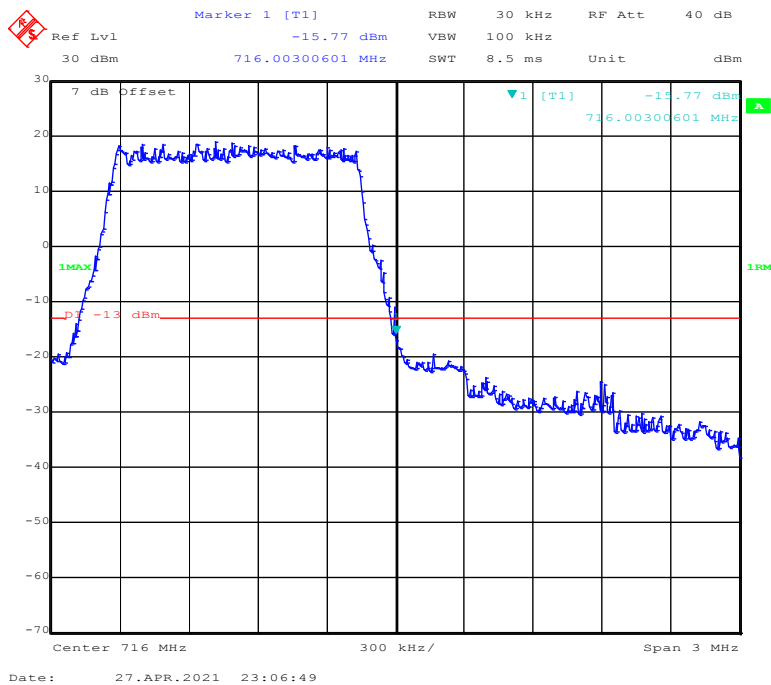


LTE Band 12:

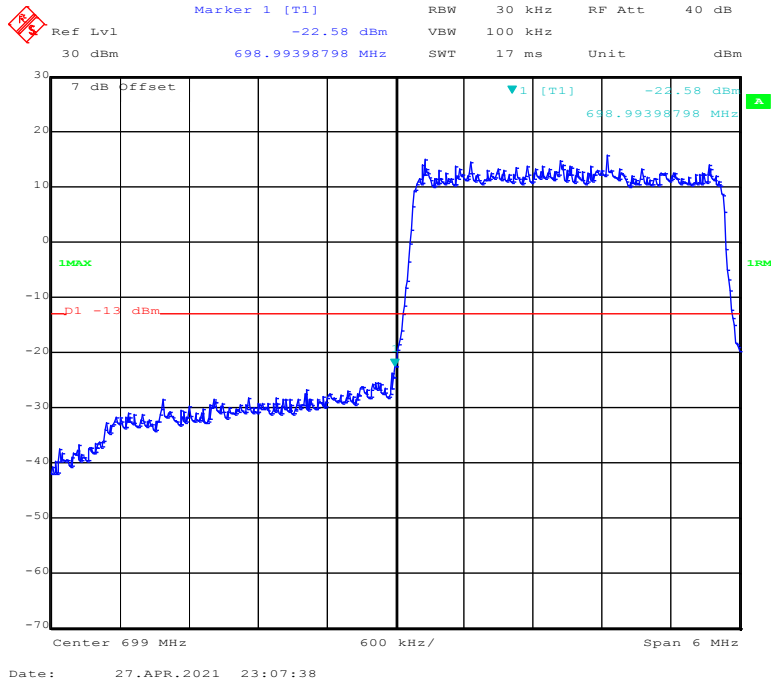
QPSK (1.4 MHz, FULL RB) - Left Band Edge



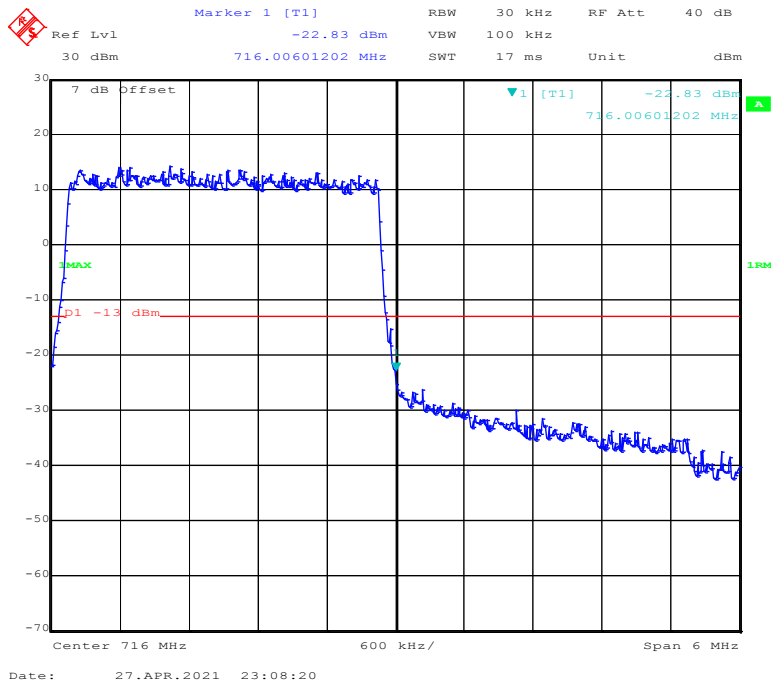
QPSK (1.4 MHz, FULL RB) - Right Band Edge



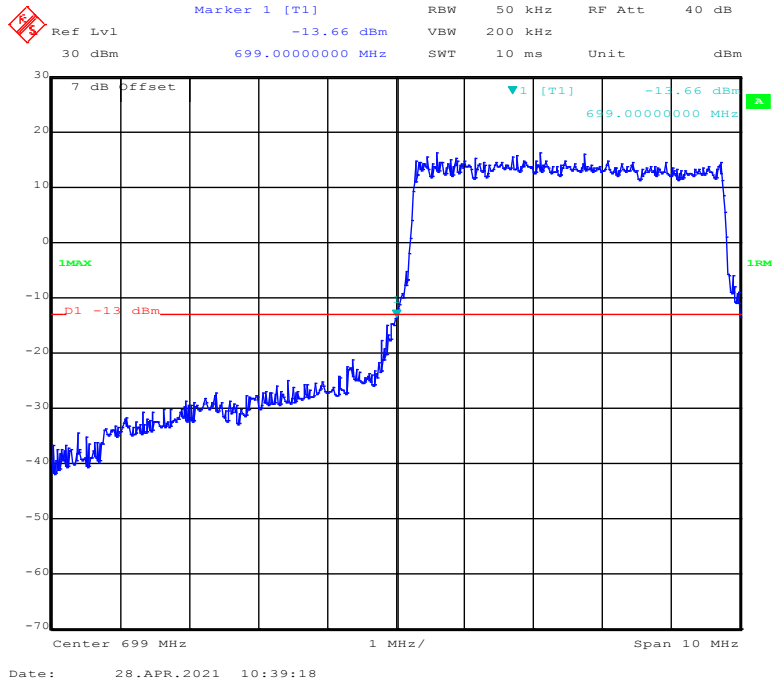
QPSK (3.0 MHz, FULL RB) - Left Band Edge



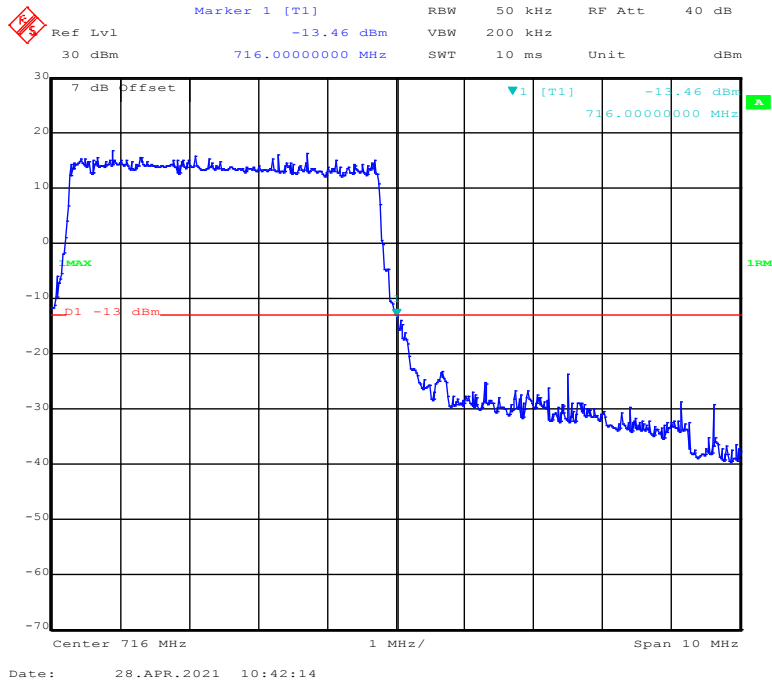
QPSK (3.0 MHz, FULL RB) - Right Band Edge



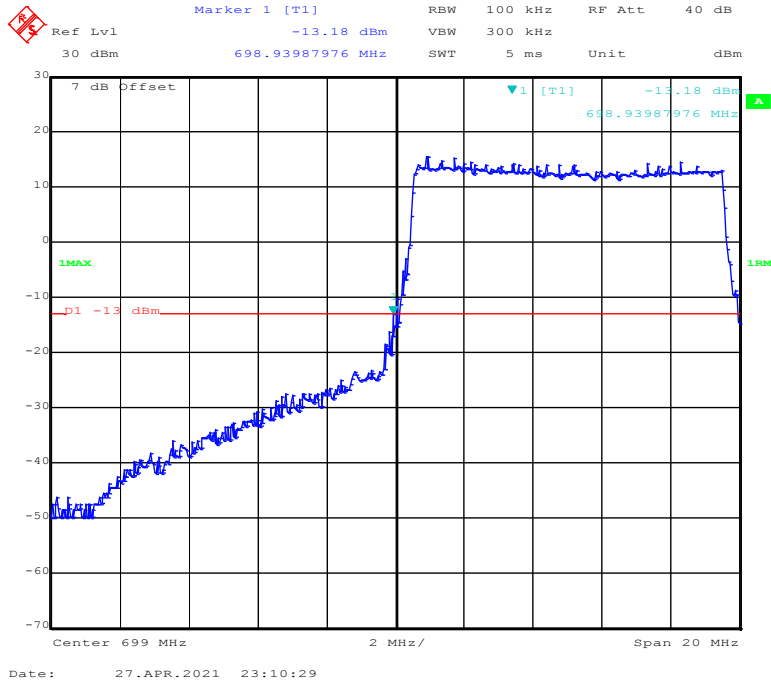
QPSK (5.0 MHz, FULL RB) - Left Band Edge



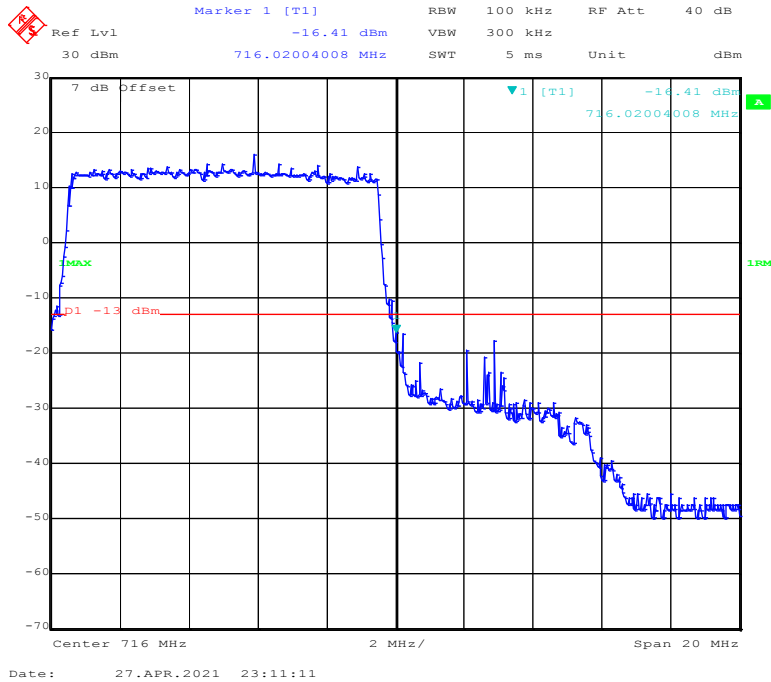
QPSK (5.0 MHz, FULL RB) - Right Band Edge



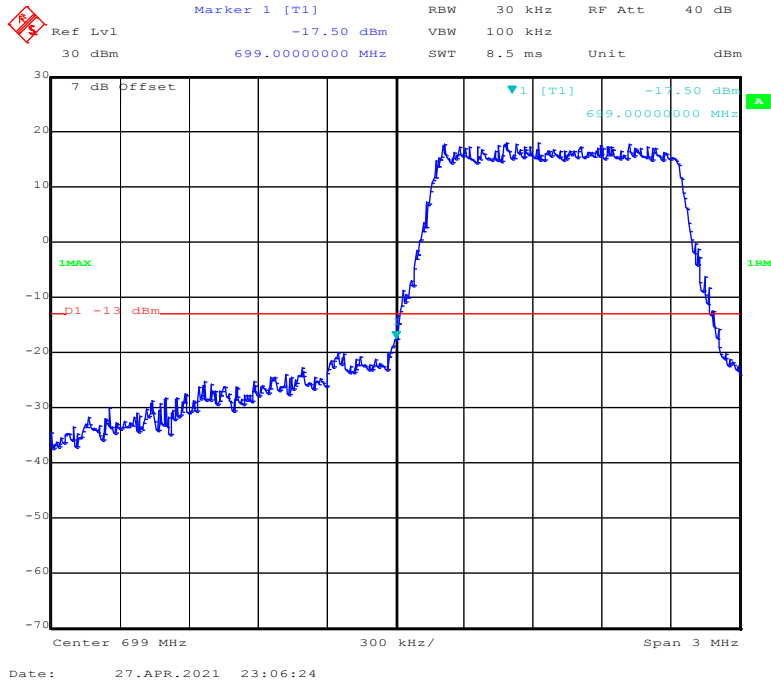
QPSK (10.0 MHz, FULL RB) - Left Band Edge



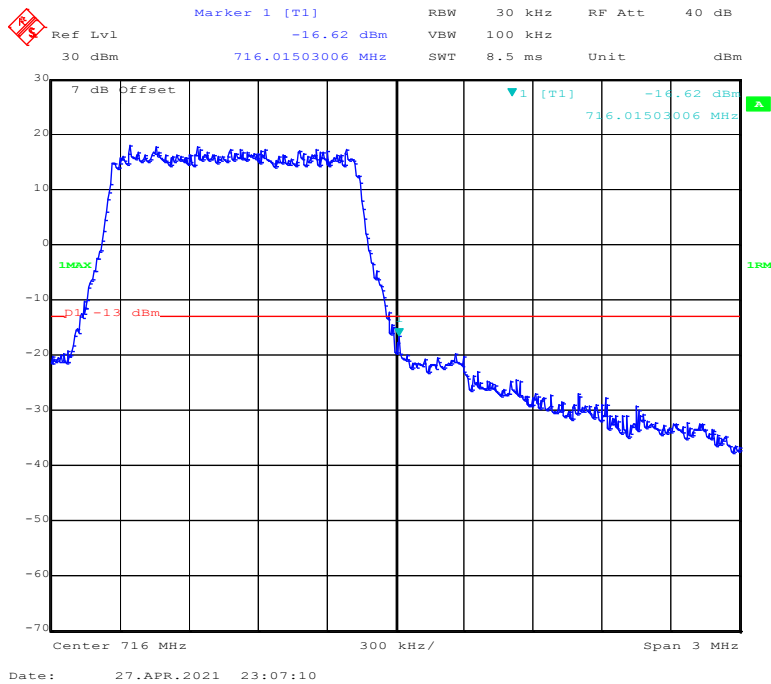
QPSK (10.0 MHz, FULL RB) - Right Band Edge



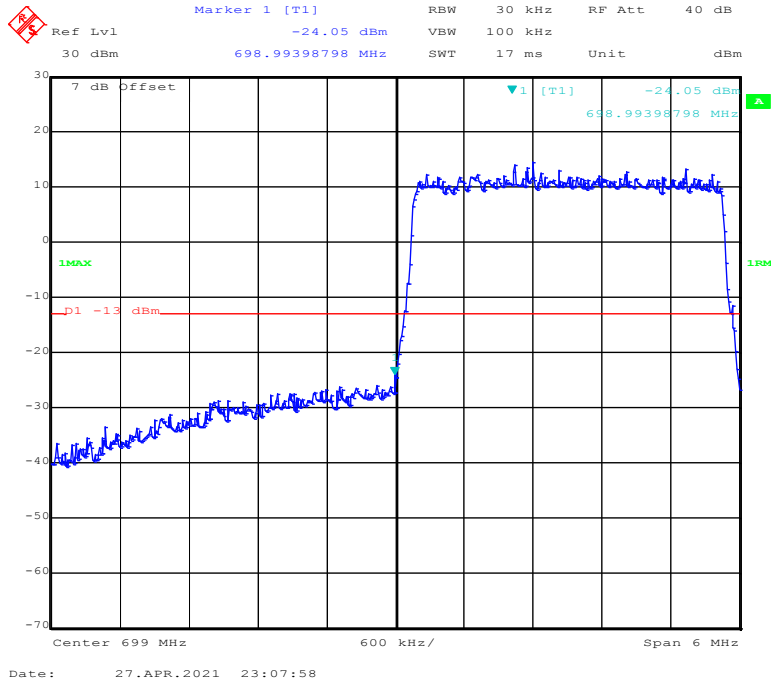
16-QAM (1.4 MHz, FULL RB) - Left Band Edge



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

