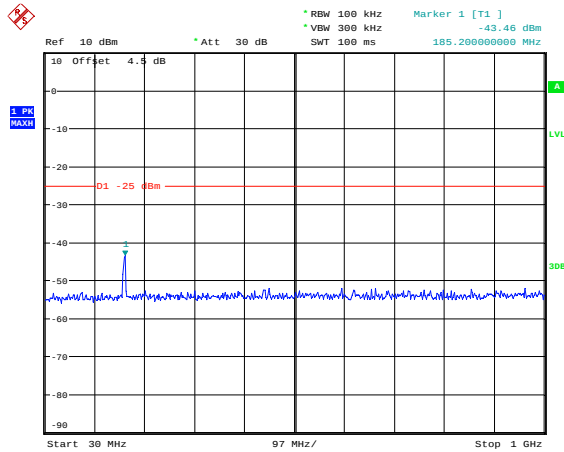
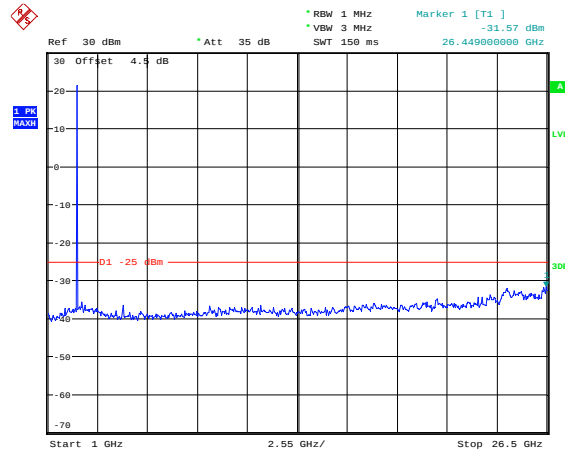


LTE Band 41:

5M, QPSK, Low Channel

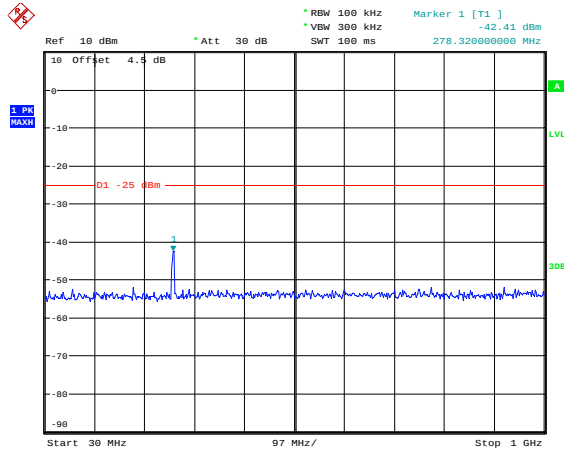


Date: 29.JAN.2021 10:55:07

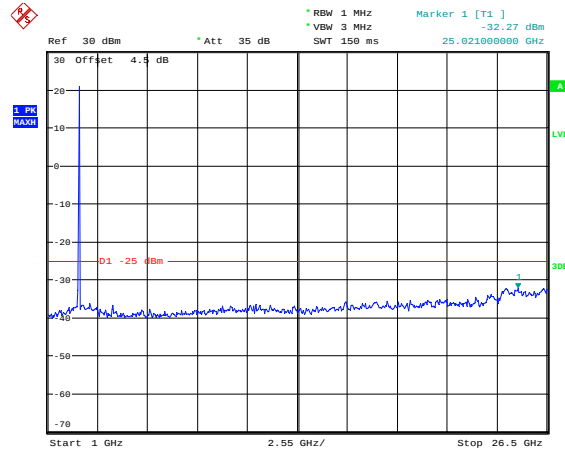


Date: 29.JAN.2021 10:55:19

5M, QPSK, Middle Channel

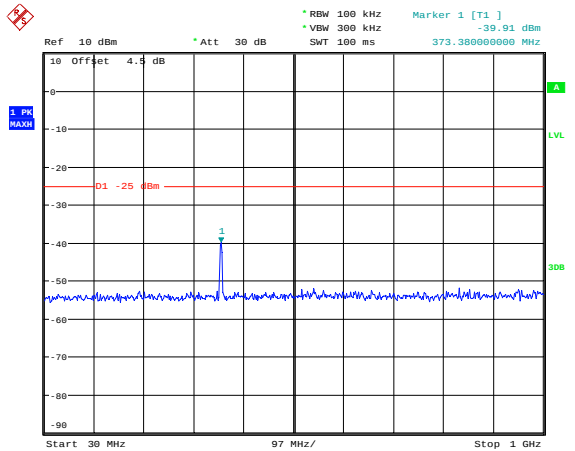


Date: 29.JAN.2021 10:55:41

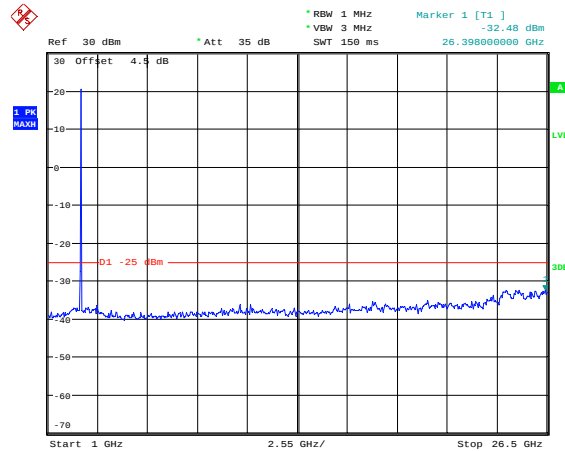


Date: 29.JAN.2021 10:55:57

5M, QPSK, High Channel

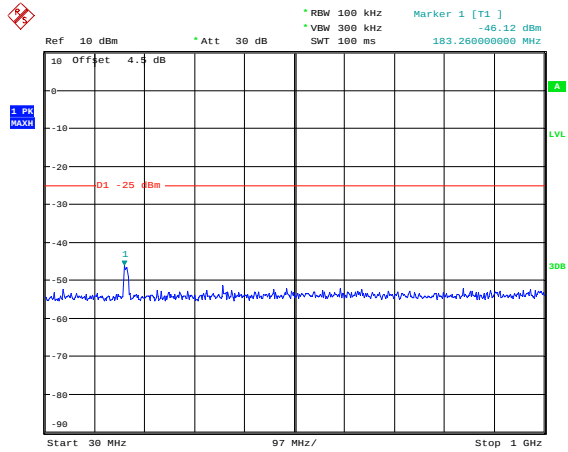


Date: 29.JAN.2021 10:56:18

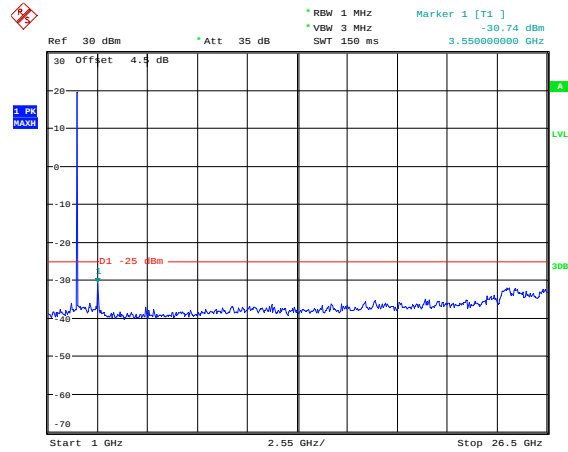


Date: 29.JAN.2021 10:56:31

10M, QPSK, Low Channel

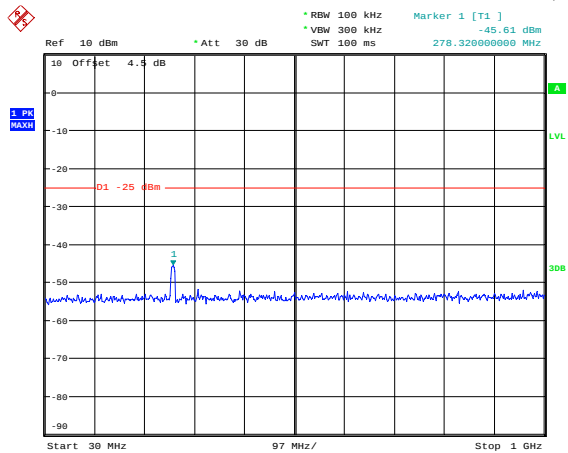


Date: 29.JAN.2021 10:56:56

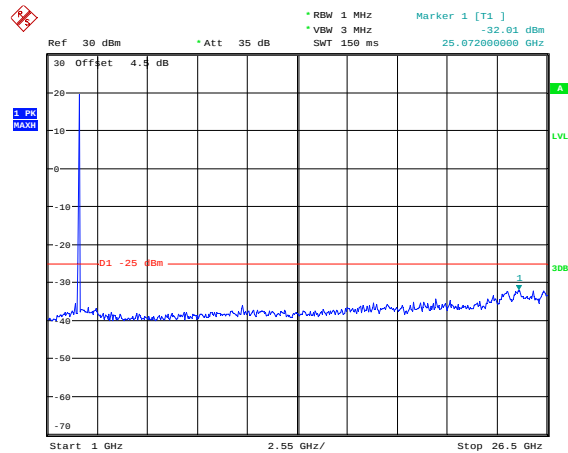


Date: 29.JAN.2021 10:57:12

10M, QPSK, Middle Channel

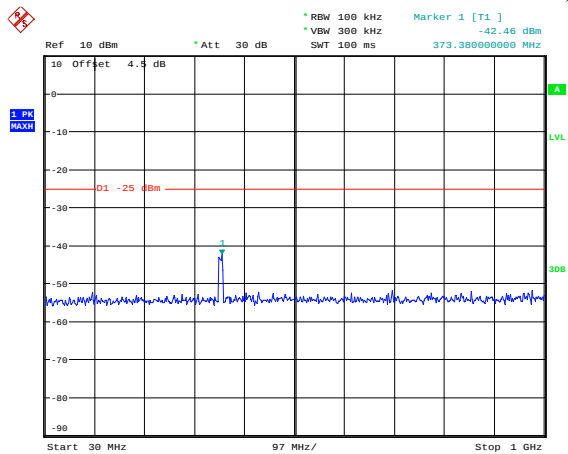


Date: 29.JAN.2021 10:57:35

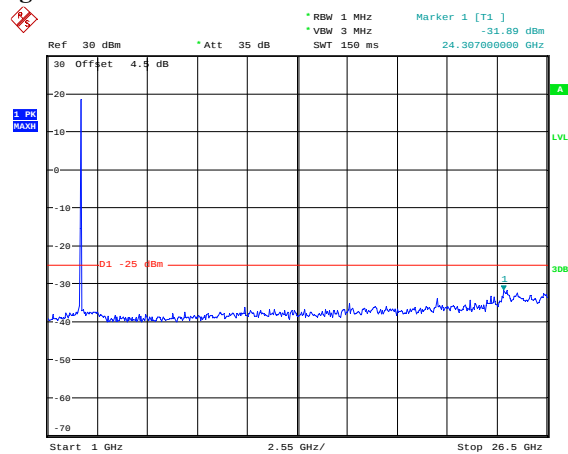


Date: 29.JAN.2021 10:57:47

10M, QPSK, High Channel

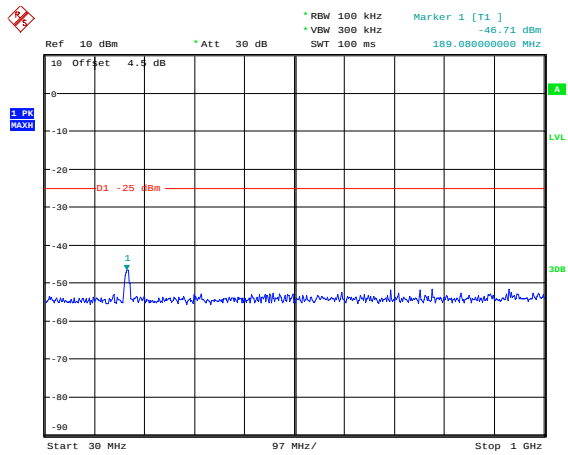


Date: 29.JAN.2021 10:58:06

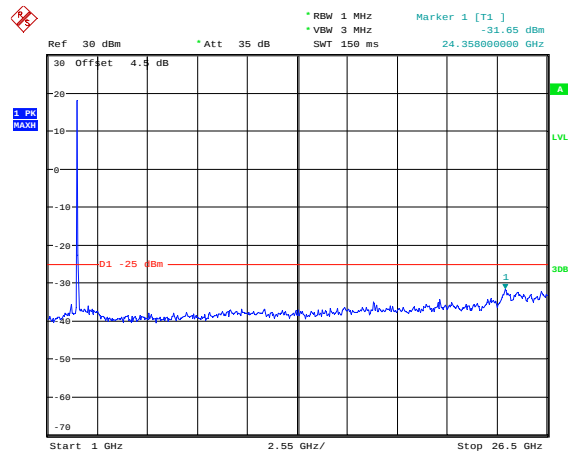


Date: 29.JAN.2021 10:58:19

15M, QPSK, Low Channel

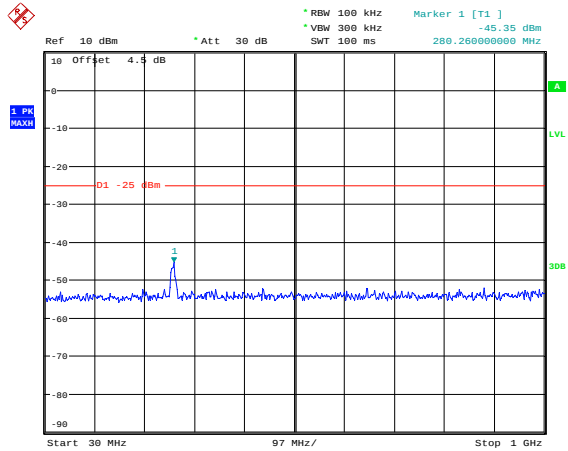


Date: 29.JAN.2021 10:58:43

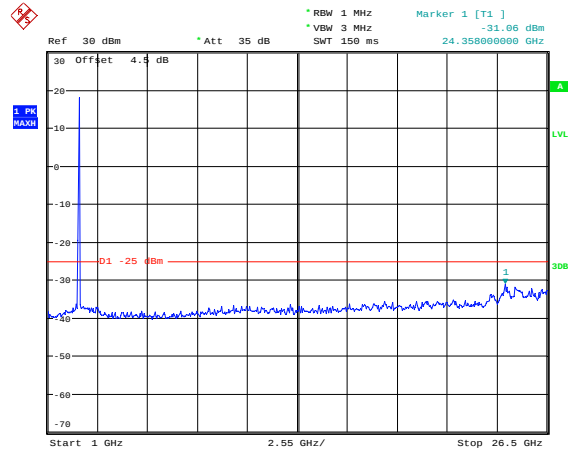


Date: 29.JAN.2021 10:58:55

15M, QPSK, Middle Channel

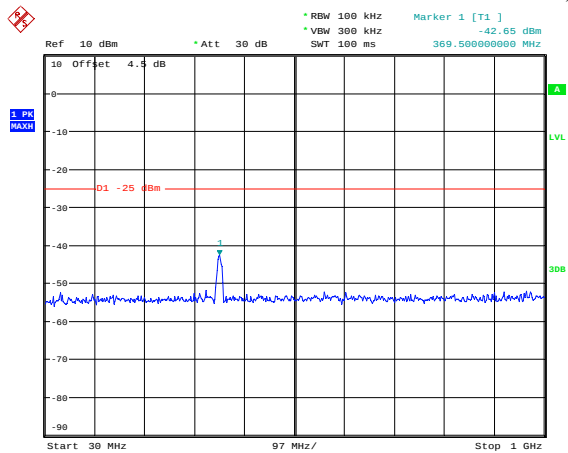


Date: 29.JAN.2021 10:59:16

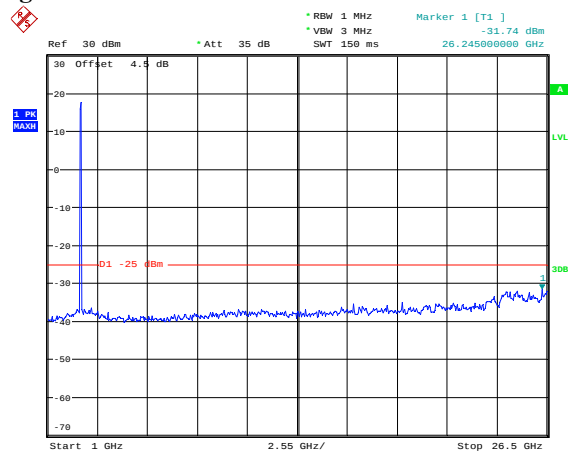


Date: 29.JAN.2021 10:59:29

15M, QPSK, High Channel

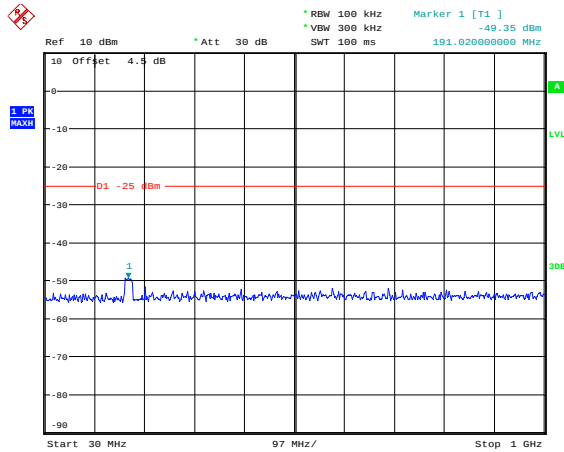


Date: 29.JAN.2021 10:59:54

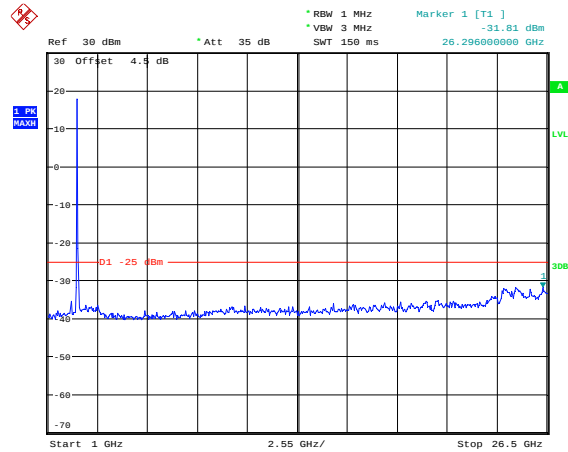


Date: 29.JAN.2021 11:00:06

20M, QPSK, Low Channel

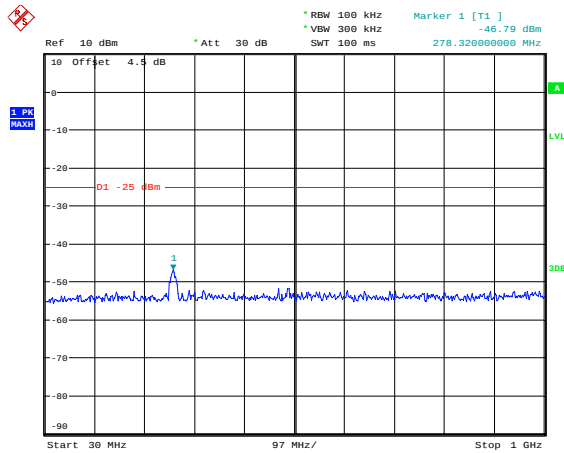


Date: 29.JAN.2021 11:00:31

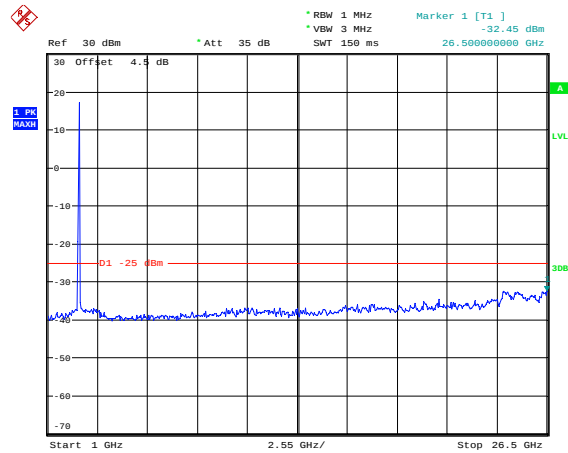


Date: 29.JAN.2021 11:00:43

20M, QPSK, Middle Channel

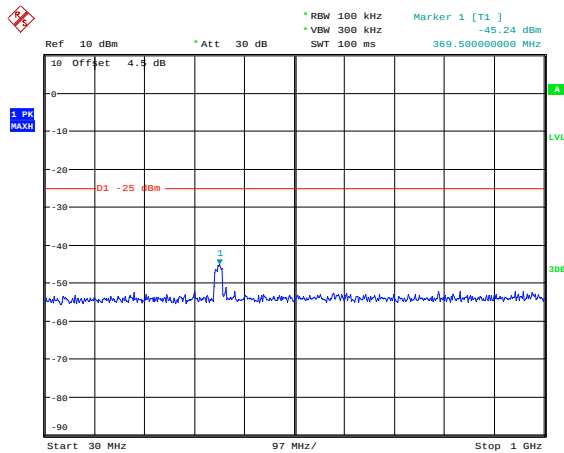


Date: 29.JAN.2021 11:01:08

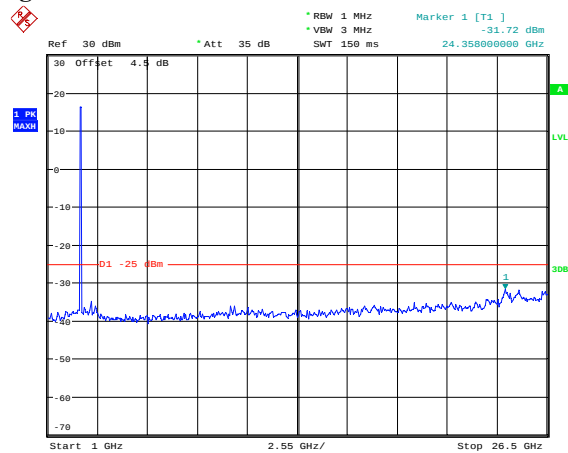


Date: 29.JAN.2021 11:01:21

20M, QPSK, High Channel



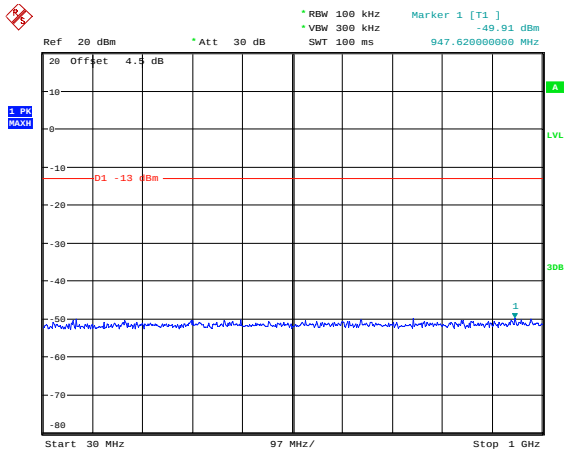
Date: 29.JAN.2021 11:01:45



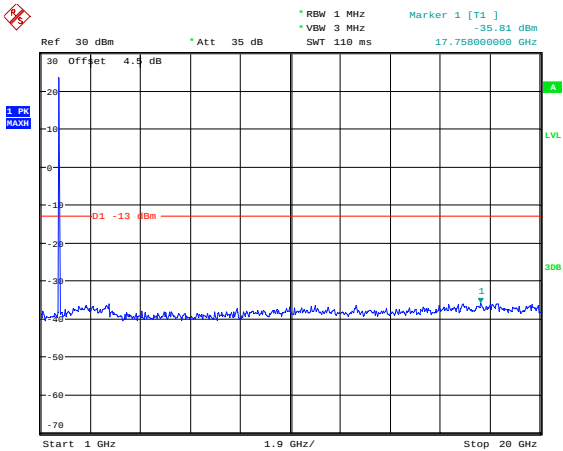
Date: 29.JAN.2021 11:01:58

LTE Band 66:

1.4M, QPSK, Low Channel

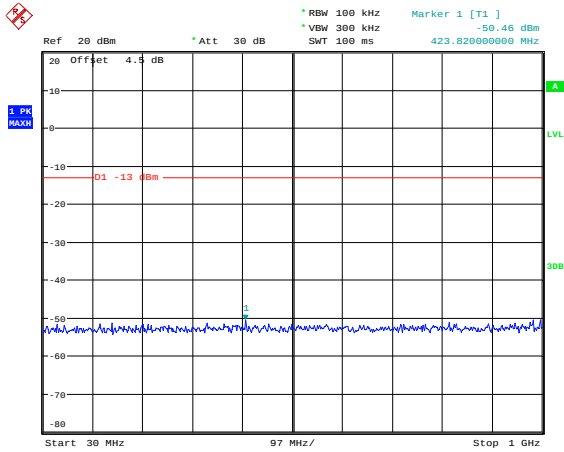


Date: 29.JAN.2021 11:05:37

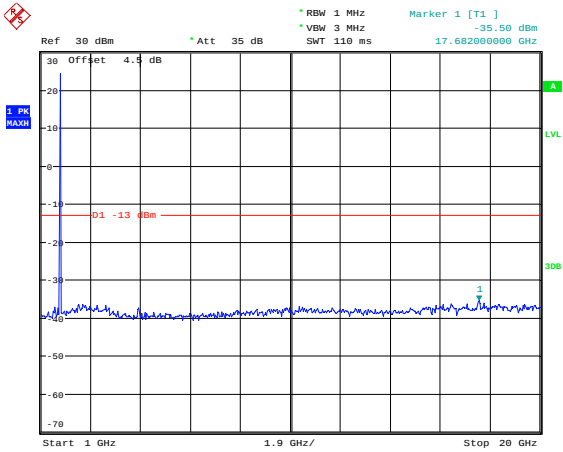


Date: 28.JAN.2021 09:36:50

1.4M, QPSK, Middle Channel

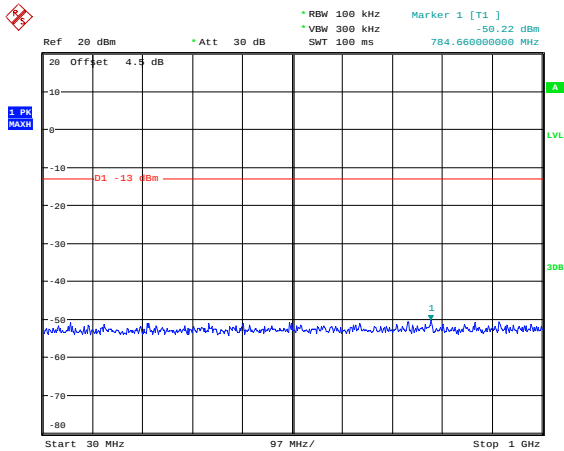


Date: 28.JAN.2021 09:37:12

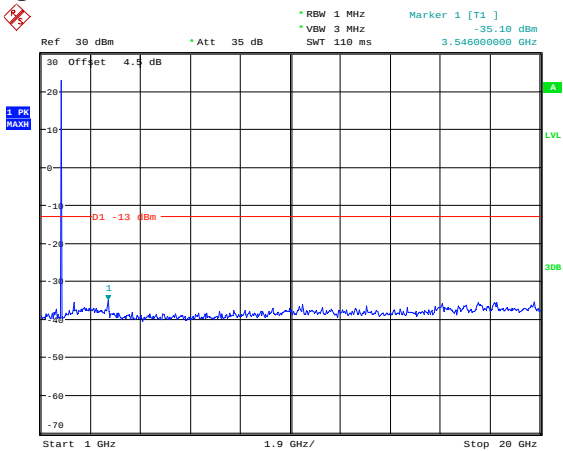


Date: 28.JAN.2021 09:37:25

1.4M, QPSK, High Channel

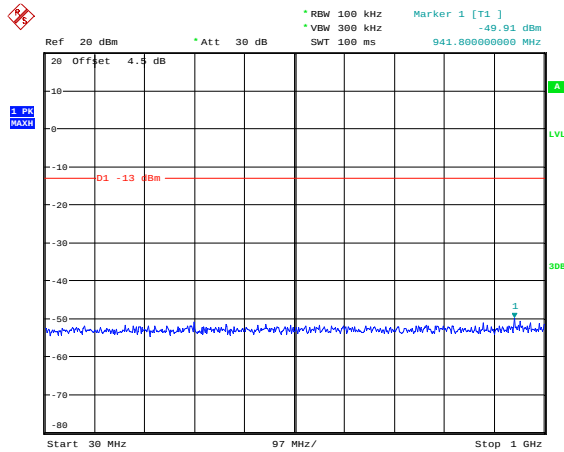


Date: 28.JAN.2021 09:37:46

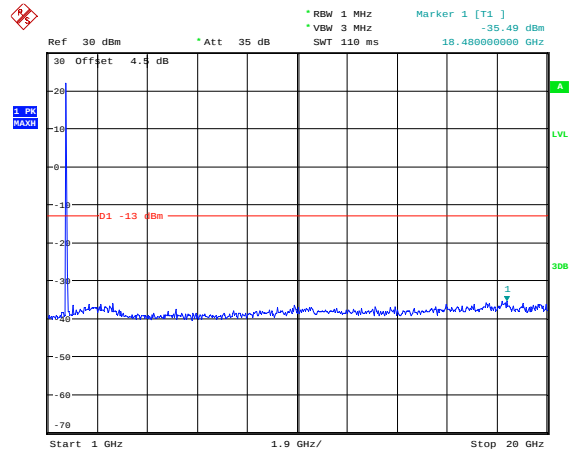


Date: 28.JAN.2021 09:37:59

3M, QPSK, Low Channel

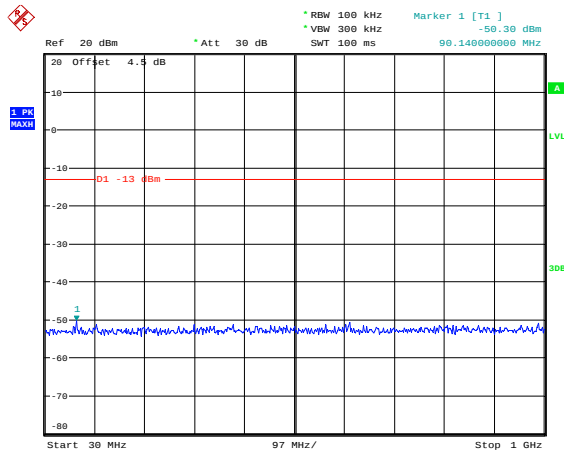


Date: 28.JAN.2021 09:38:19

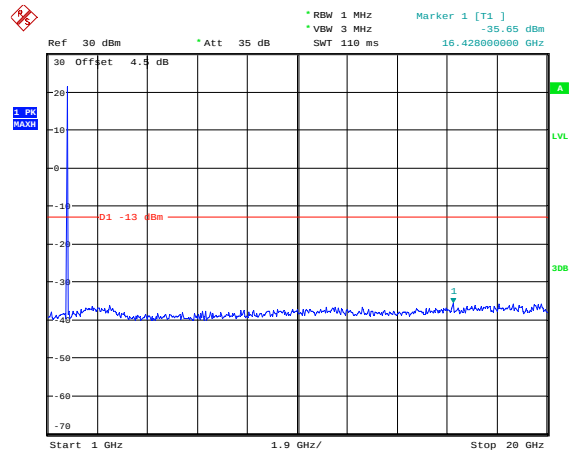


Date: 28.JAN.2021 09:38:31

3M, QPSK, Middle Channel

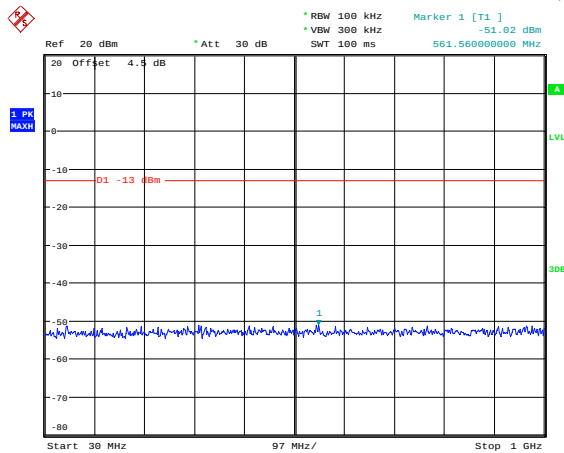


Date: 28.JAN.2021 09:38:53

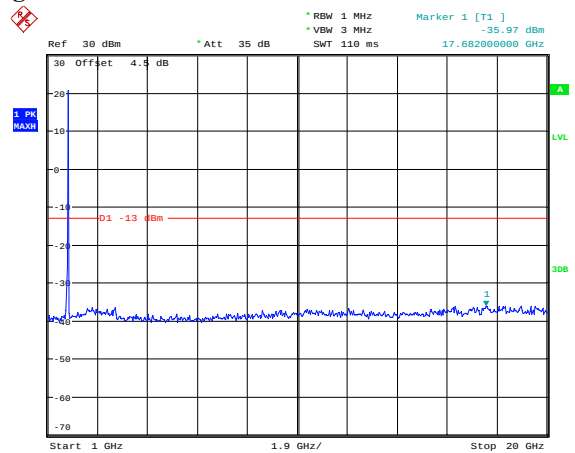


Date: 28.JAN.2021 09:39:09

3M, QPSK, High Channel

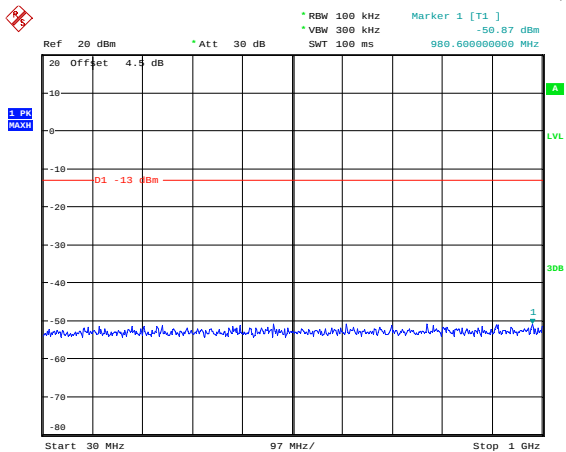


Date: 28.JAN.2021 09:39:27

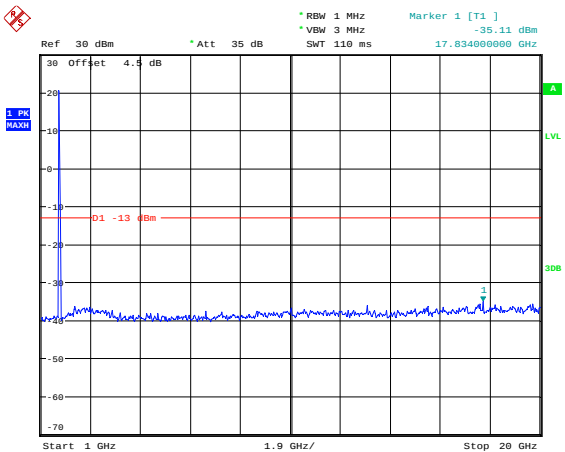


Date: 28.JAN.2021 09:39:40

5M, QPSK, Low Channel

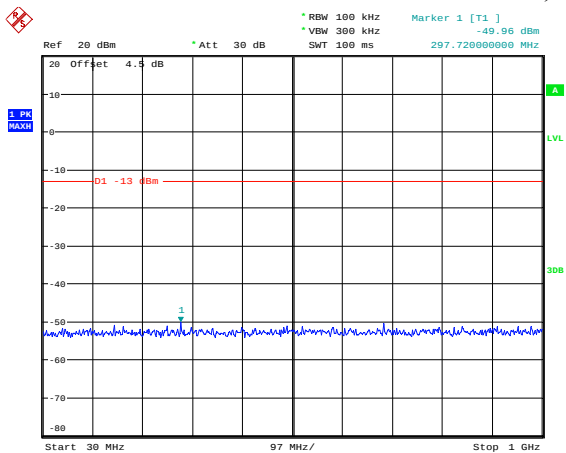


Date: 28.JAN.2021 09:40:00

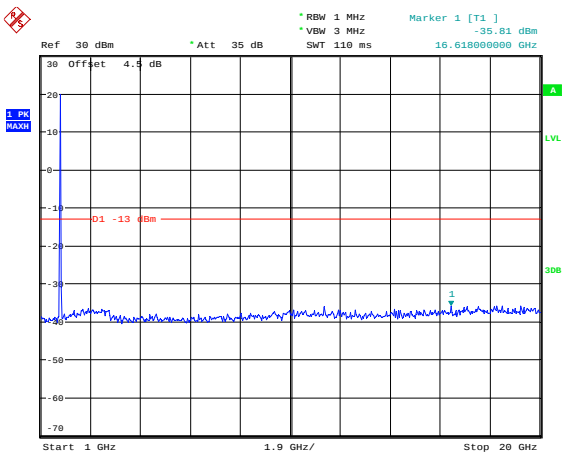


Date: 28.JAN.2021 09:40:13

5M, QPSK, Middle Channel

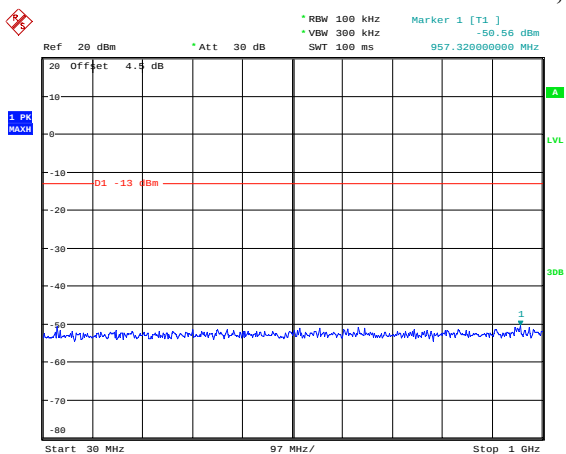


Date: 28.JAN.2021 09:40:34

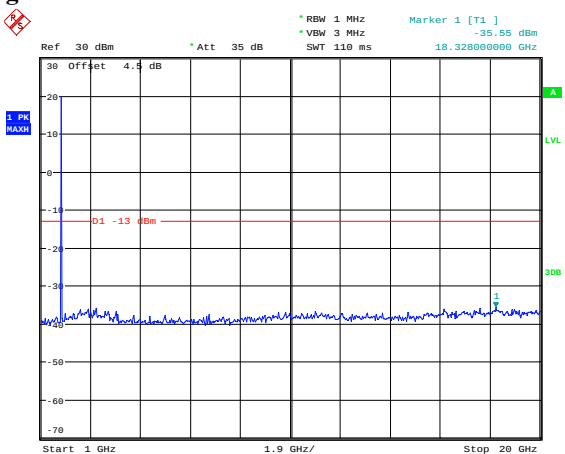


Date: 28.JAN.2021 09:40:47

5M, QPSK, High Channel

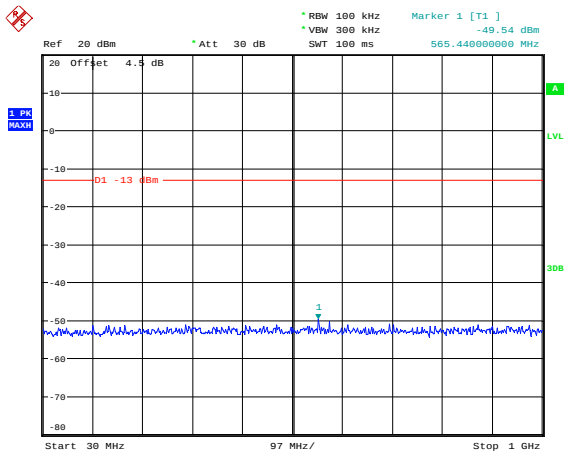


Date: 28.JAN.2021 09:41:08

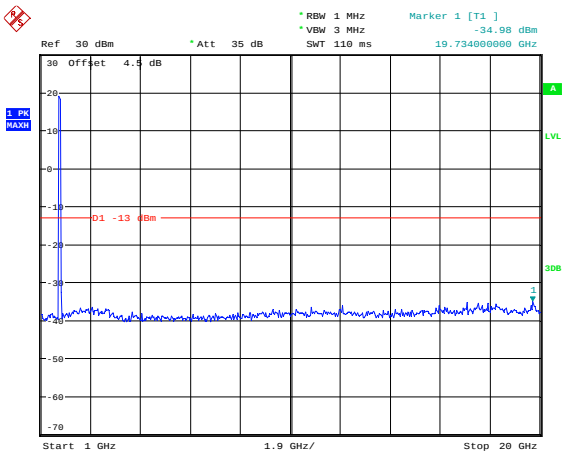


Date: 28.JAN.2021 09:41:21

10M, QPSK, Low Channel

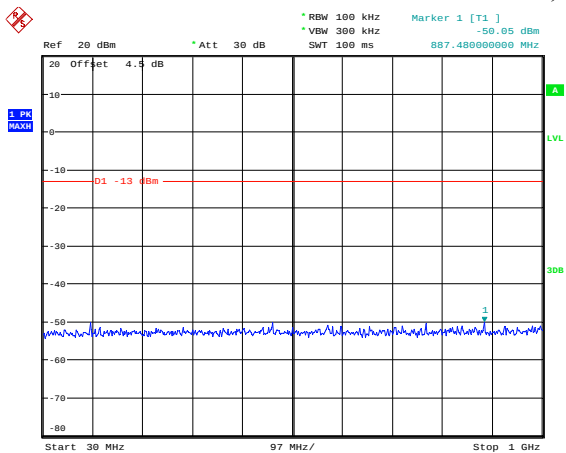


Date: 28.JAN.2021 09:41:45

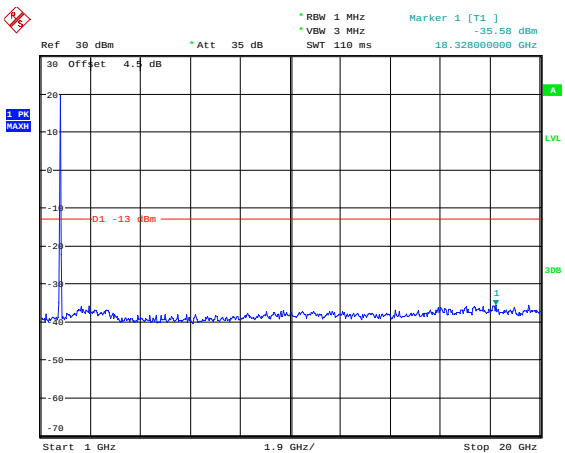


Date: 28.JAN.2021 09:41:58

10M, QPSK, Middle Channel

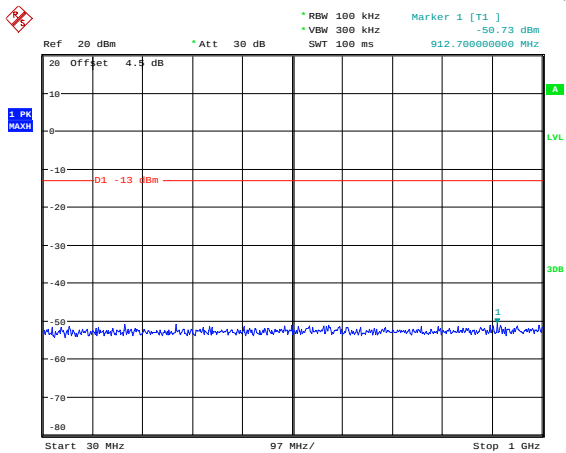


Date: 28.JAN.2021 09:42:19

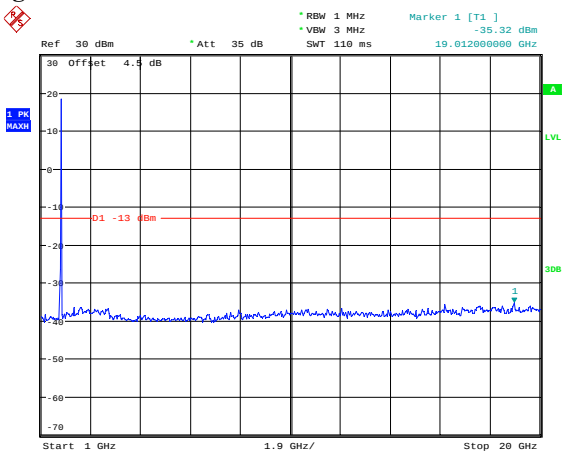


Date: 28.JAN.2021 09:42:32

10M, QPSK, High Channel

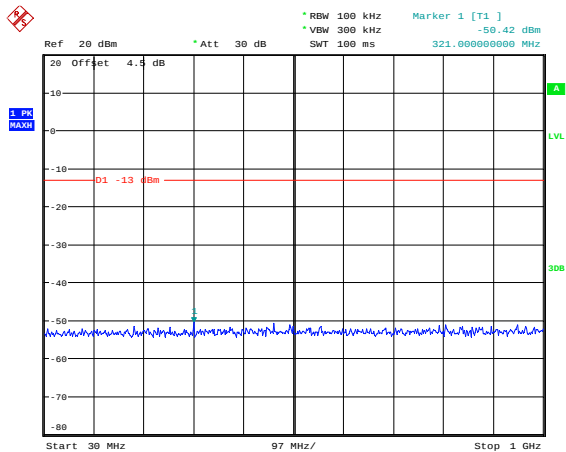


Date: 28.JAN.2021 09:42:54

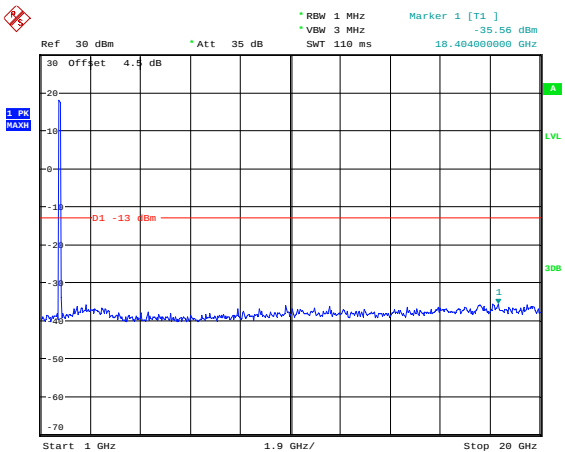


Date: 28.JAN.2021 09:43:06

15M, QPSK, Low Channel

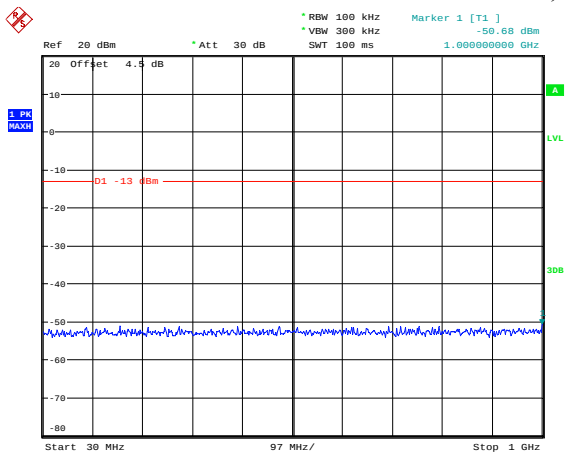


Date: 28.JAN.2021 09:43:27

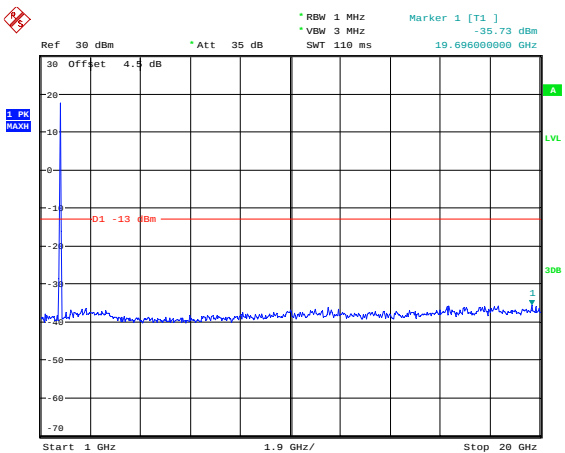


Date: 28.JAN.2021 09:43:40

15M, QPSK, Middle Channel

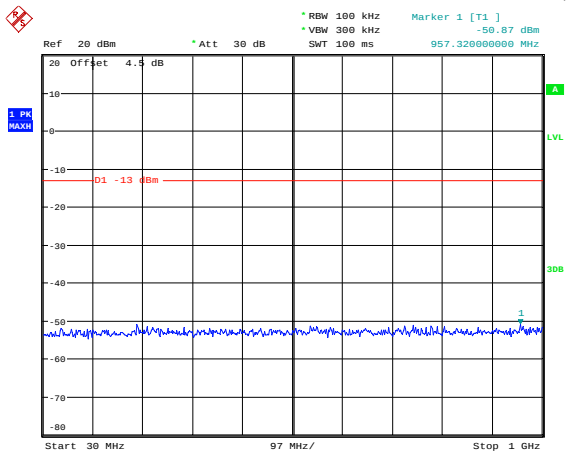


Date: 28.JAN.2021 09:44:03

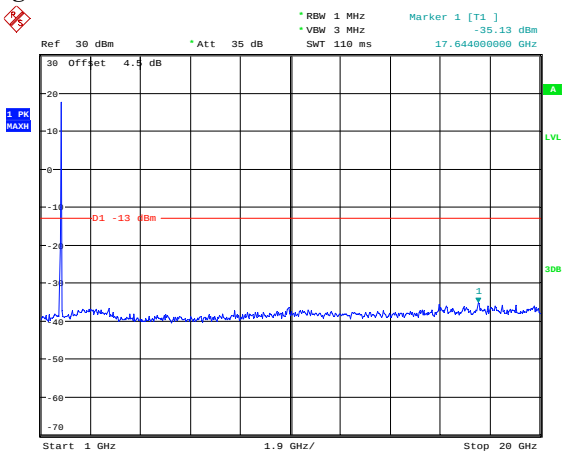


Date: 28.JAN.2021 09:44:15

15M, QPSK, High Channel

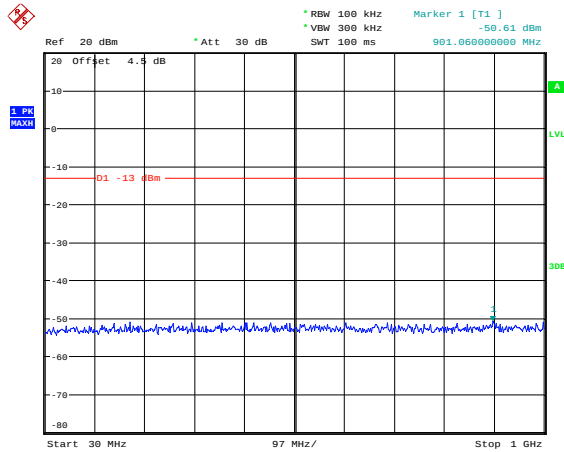


Date: 28.JAN.2021 09:44:34

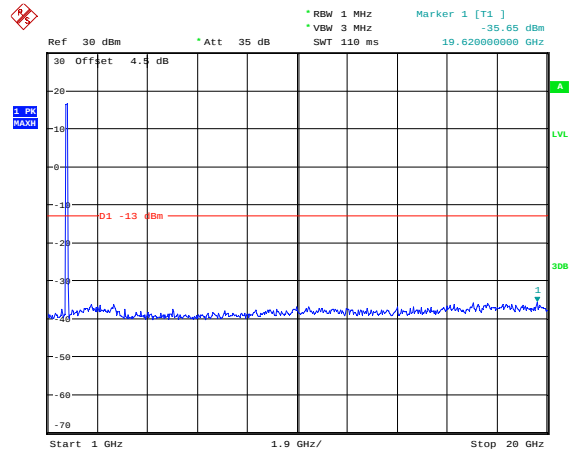


Date: 28.JAN.2021 09:44:47

20M, QPSK, Low Channel

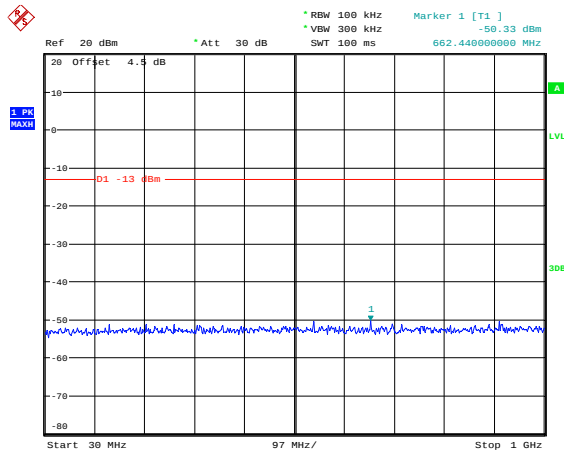


Date: 28.JAN.2021 09:45:13

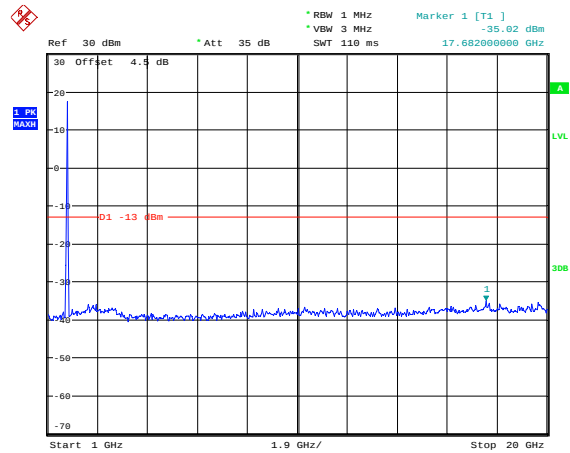


Date: 28.JAN.2021 09:45:25

20M, QPSK, Middle Channel

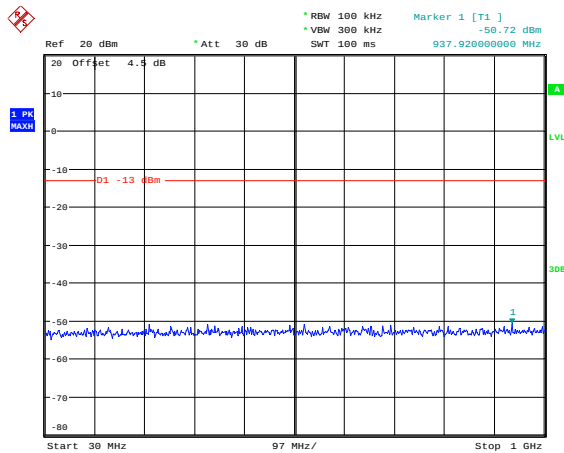


Date: 28.JAN.2021 09:45:48

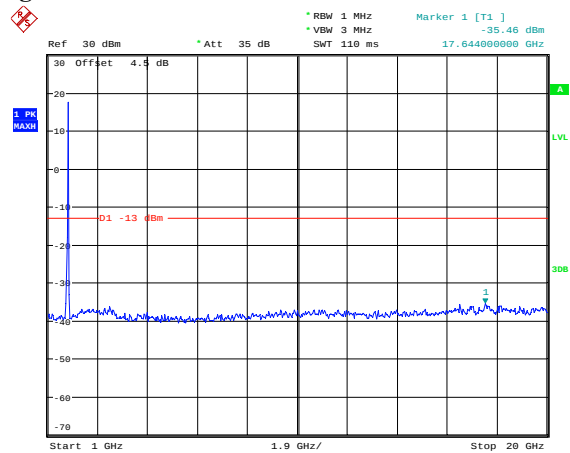


Date: 28.JAN.2021 09:46:01

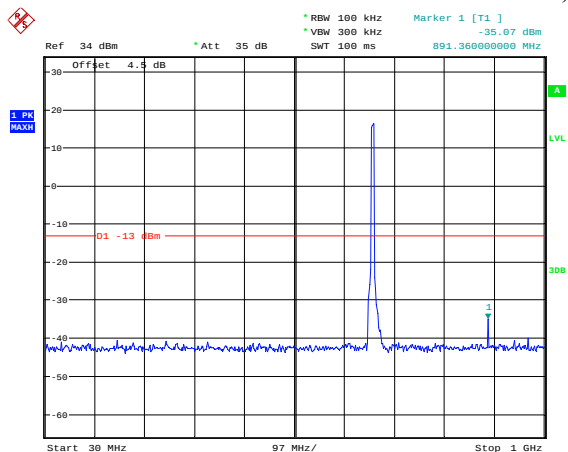
20M, QPSK, High Channel



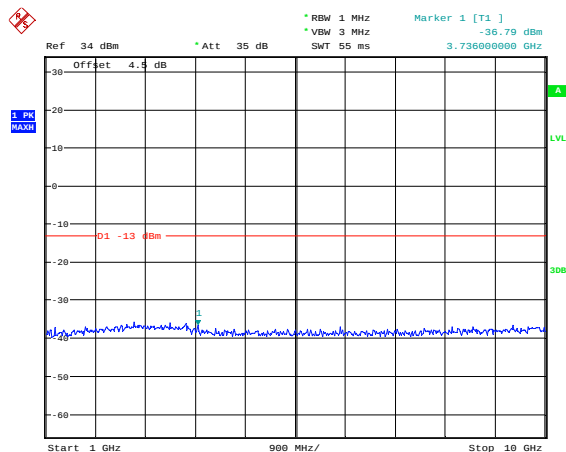
Date: 28.JAN.2021 09:46:20



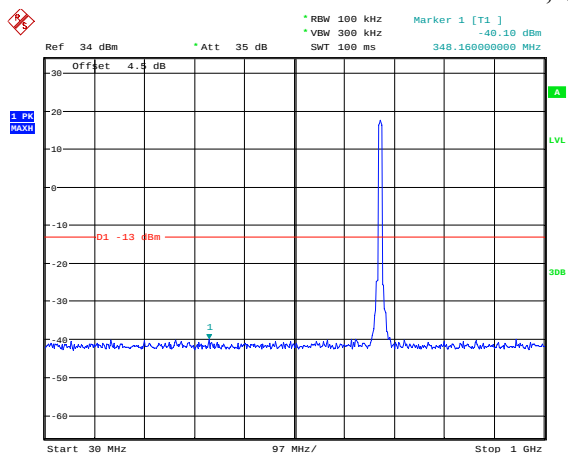
Date: 28.JAN.2021 09:46:32

LTE Band 71:**5M, QPSK, Low Channel**

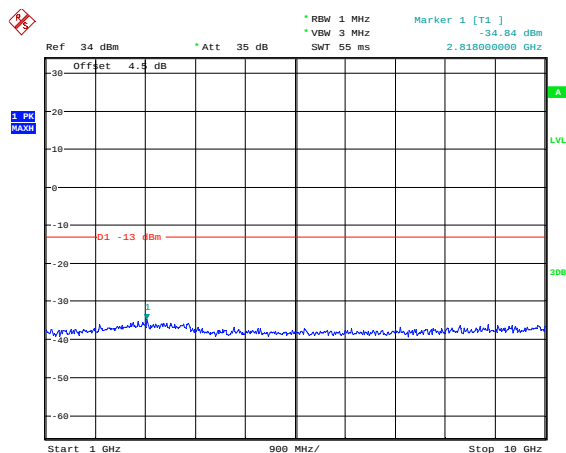
Date: 1.FEB.2021 13:10:09



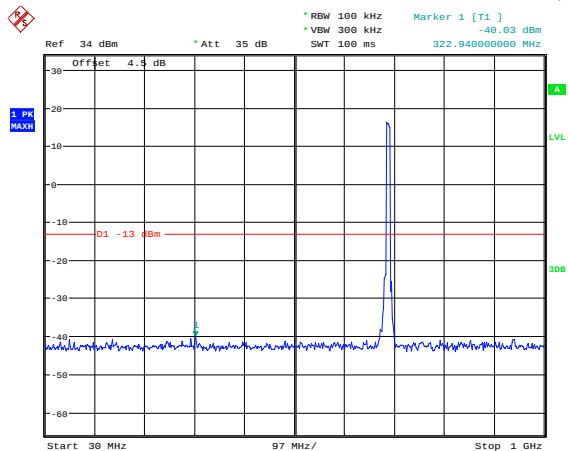
Date: 1.FEB.2021 13:08:53

5M, QPSK, Middle Channel

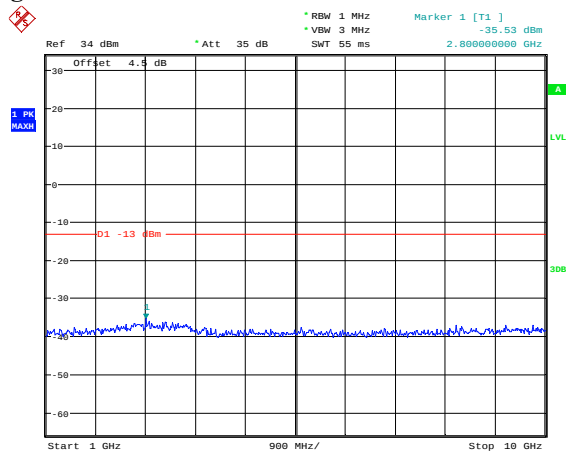
Date: 1.FEB.2021 13:14:11



Date: 1.FEB.2021 13:15:38

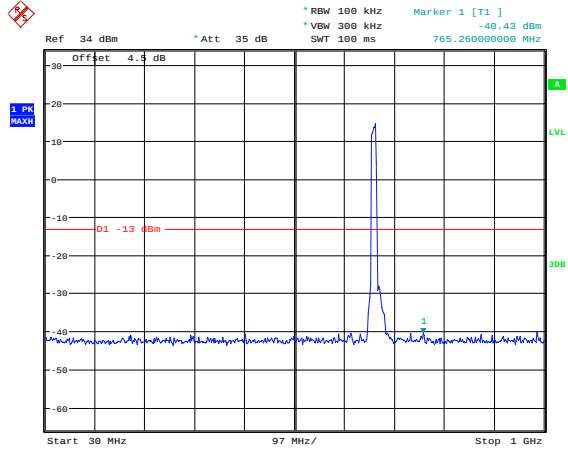
5M, QPSK, High Channel

Date: 1.FEB.2021 11:55:30

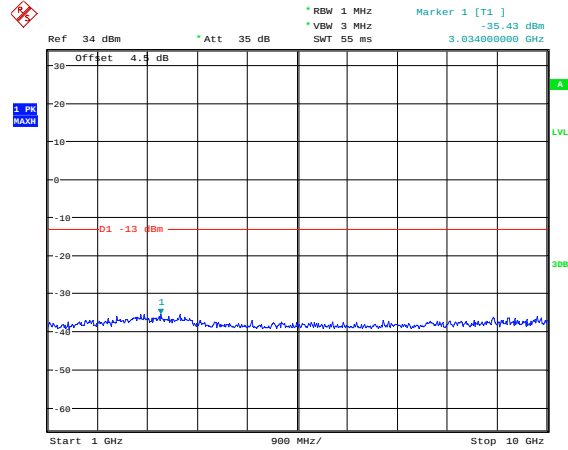


Date: 1.FEB.2021 11:56:15

10M, QPSK, Low Channel

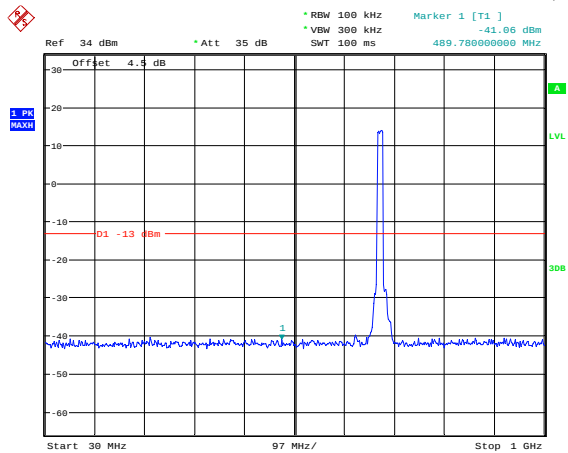


Date: 1.FEB.2021 14:07:38

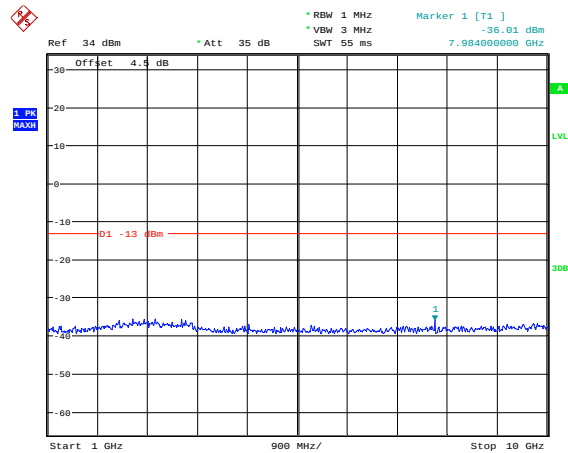


Date: 1.FEB.2021 14:06:04

10M, QPSK, Middle Channel

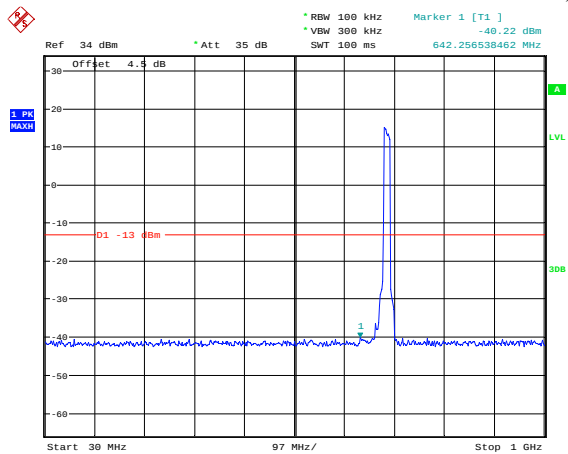


Date: 1.FEB.2021 14:30:09

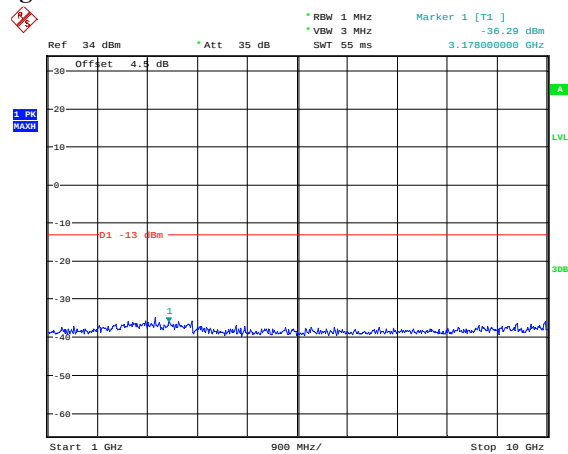


Date: 1.FEB.2021 14:06:30

10M, QPSK, High Channel

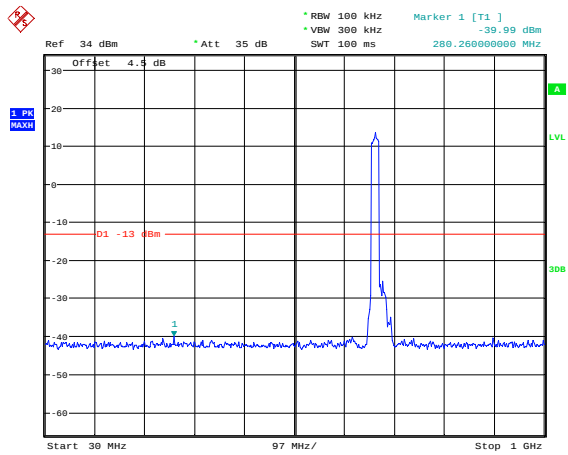


Date: 1.FEB.2021 14:41:46

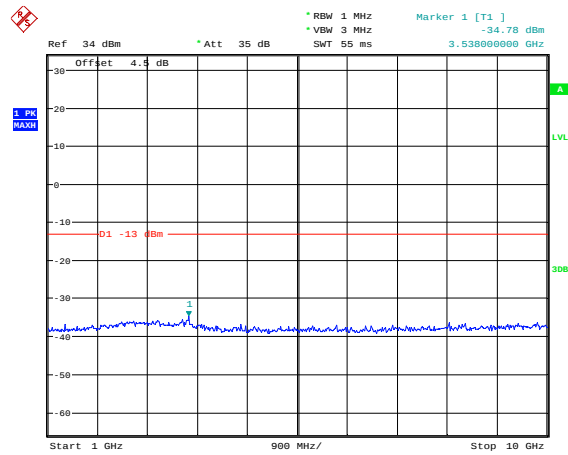


Date: 1.FEB.2021 14:06:49

15M, QPSK, Low Channel

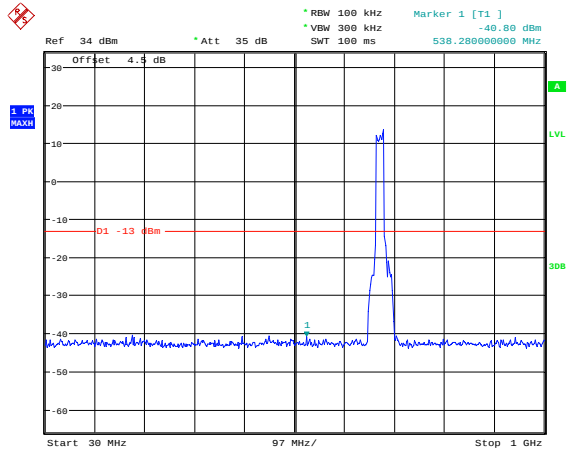


Date: 1.FEB.2021 14:56:03

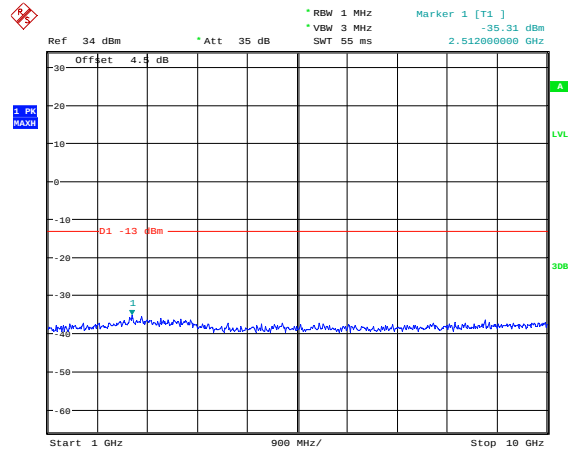


Date: 1.FEB.2021 14:57:02

15M, QPSK, Middle Channel

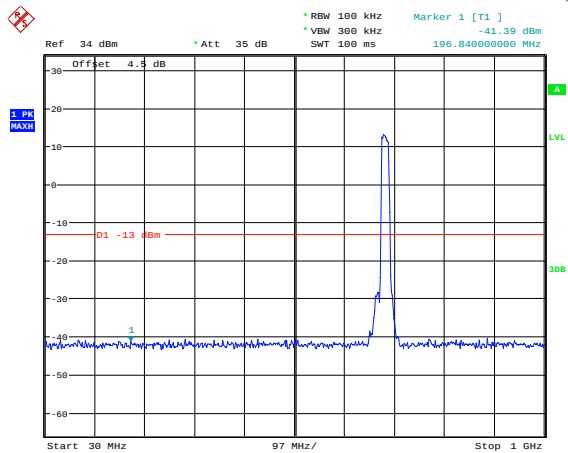


Date: 1.FEB.2021 19:18:14

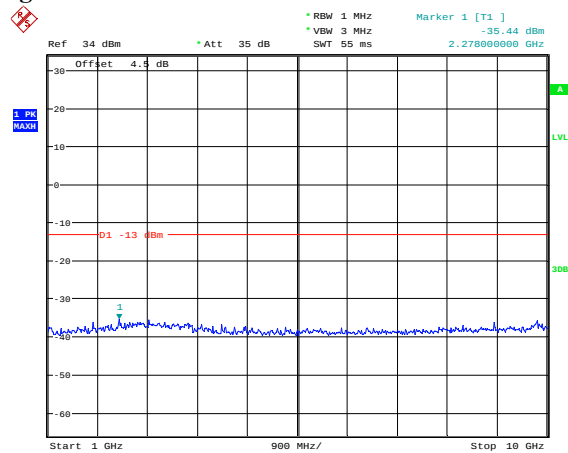


Date: 1.FEB.2021 14:57:17

15M, QPSK, High Channel

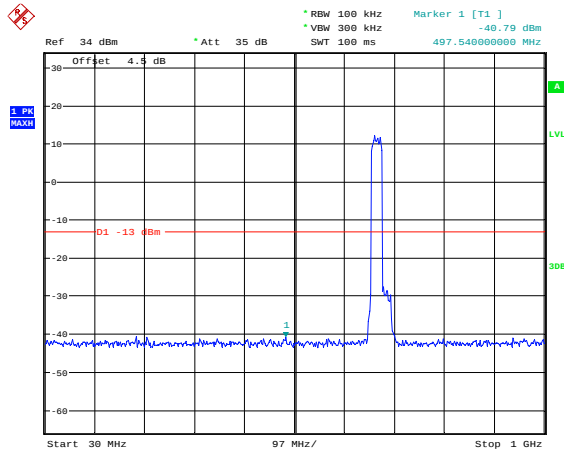


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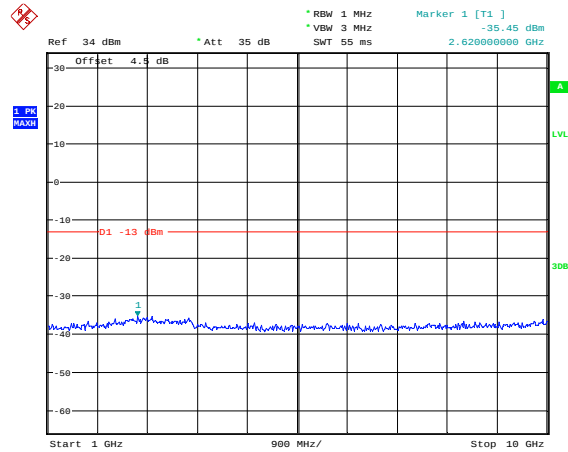


Date: 1.FEB.2021 14:57:33

20M, QPSK, Low Channel

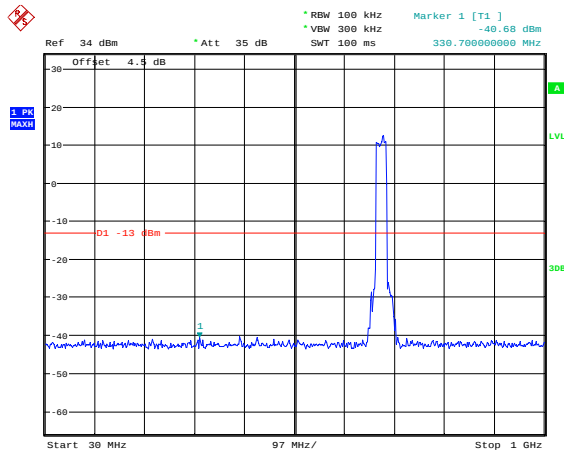


Date: 1.FEB.2021 17:19:19

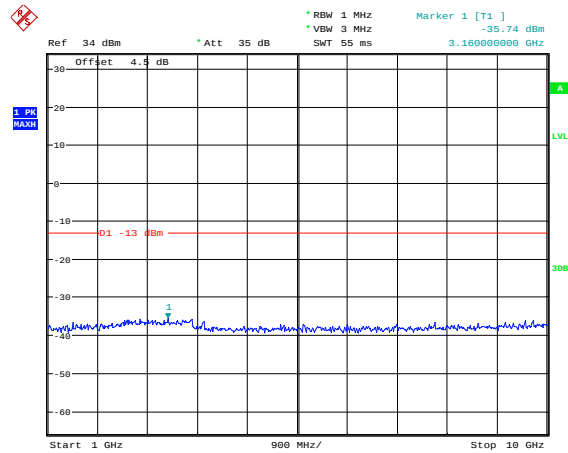


Date: 1.FEB.2021 15:08:06

20M, QPSK, Middle Channel

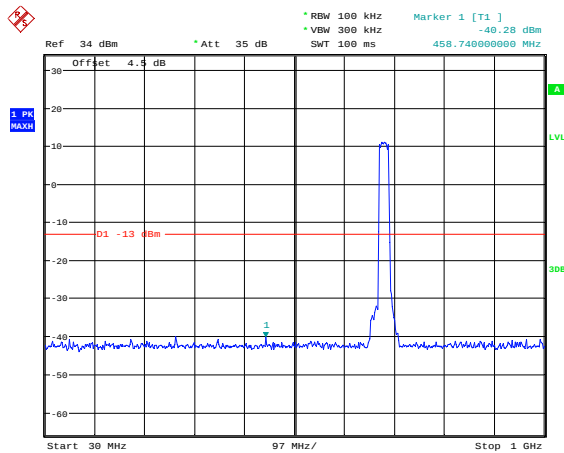


Date: 1.FEB.2021 18:55:13

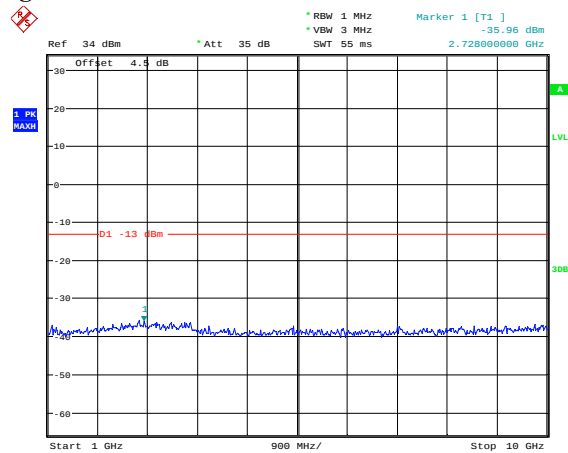


Date: 1.FEB.2021 15:07:36

20M, QPSK, High Channel



Date: 1.FEB.2021 18:42:16



Date: 1.FEB.2021 15:08:24

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

Applicable Standard

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

Test Procedure

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

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

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

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
HP	Amplifier	8447D	2727A05902	2020-09-05	2021-09-05
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2020-12-09	2021-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Agilent	Spectrum Analyzer	E4440A	SG43360054	2020-07-07	2021-07-07
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2020-06-27	2021-06-27
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2020-12-05	2023-12-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2020-09-05	2021-09-05
Agilent	Signal Generator	E8247C	MY43321350	2020-12-09	2021-12-08
Sinoscite	Band-stop filter	BSF1710-1785MN-0383-003	0383003	2020-06-16	2021-06-16
Sinoscite	Band-stop filter	BSF1850-1910MS-0935V2	0935V2	2020-06-16	2021-06-16

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

Test Data**Environmental Conditions**

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	22.4°C	22.7°C
Relative Humidity:	37 %	43 %
ATM Pressure:	102.8kPa	100.8kPa
Tester:	Joker Chen, Jalon Liu	Jalon Liu
Test Date:	2021-01-30	2021-01-31

Test Result: Compliance.

EUT Operation Mode: Transmitting

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
1648.40	H	38.09	-66.09	10.44	0.71	-56.36	-13.00	43.36
1648.40	V	35.46	-69.32	10.44	0.71	-59.59	-13.00	46.59
2472.60	H	39.97	-62.81	12.88	1.25	-51.18	-13.00	38.18
2472.60	V	36.02	-66.81	12.88	1.25	-55.18	-13.00	42.18
3296.80	H	37.64	-62.14	13.60	1.59	-50.13	-13.00	37.13
3296.80	V	36.38	-63.41	13.60	1.59	-51.40	-13.00	38.40
844.90	H	37.36	-60.61	0.00	0.98	-61.59	-13.00	48.59
844.90	V	38.55	-62.40	0.00	0.98	-63.38	-13.00	50.38
GSM 850 Frequency:836.6MHz								
1673.20	H	37.89	-66.05	10.61	0.73	-56.17	-13.00	43.17
1673.20	V	34.99	-69.55	10.61	0.73	-59.67	-13.00	46.67
2509.80	H	39.28	-63.63	13.11	1.25	-51.77	-13.00	38.77
2509.80	V	36.87	-66.07	13.11	1.25	-54.21	-13.00	41.21
3346.40	H	38.00	-61.68	13.83	1.61	-49.46	-13.00	36.46
3346.40	V	36.86	-62.86	13.83	1.61	-50.64	-13.00	37.64
846.30	H	36.46	-61.49	0.00	0.99	-62.48	-13.00	49.48
846.30	V	36.58	-64.32	0.00	0.99	-65.31	-13.00	52.31
GSM 850 Frequency:848.8MHz								
1697.60	H	37.98	-65.72	10.78	0.75	-55.69	-13.00	42.69
1697.60	V	35.26	-69.04	10.78	0.75	-59.01	-13.00	46.01
2546.40	H	39.99	-62.96	13.15	1.27	-51.08	-13.00	38.08
2546.40	V	37.05	-66.04	13.15	1.27	-54.16	-13.00	41.16
3395.20	H	38.98	-60.54	14.08	1.64	-48.10	-13.00	35.10
3395.20	V	37.05	-62.57	14.08	1.64	-50.13	-13.00	37.13
844.90	H	37.31	-60.66	0.00	0.98	-61.64	-13.00	48.64
844.90	V	38.28	-62.67	0.00	0.98	-63.65	-13.00	50.65

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	37.06	-67.07	10.47	0.72	-57.32	-13.00	44.32
1652.80	V	36.21	-68.52	10.47	0.72	-58.77	-13.00	45.77
2479.20	H	36.38	-66.43	12.93	1.25	-54.75	-13.00	41.75
2479.20	V	37.35	-65.50	12.93	1.25	-53.82	-13.00	40.82
3305.60	H	35.59	-64.21	13.63	1.59	-52.17	-13.00	39.17
3305.60	V	36.75	-63.06	13.63	1.59	-51.02	-13.00	38.02
889.80	H	38.62	-58.67	0.00	1.04	-59.71	-13.00	46.71
923.50	V	35.18	-62.83	0.00	0.98	-63.81	-13.00	50.81
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	37.25	-66.69	10.61	0.73	-56.81	-13.00	43.81
1673.20	V	36.35	-68.19	10.61	0.73	-58.31	-13.00	45.31
2509.80	H	36.85	-66.06	13.11	1.25	-54.20	-13.00	41.20
2509.80	V	37.95	-64.99	13.11	1.25	-53.13	-13.00	40.13
3346.40	H	35.68	-64.00	13.83	1.61	-51.78	-13.00	38.78
3346.40	V	36.89	-62.83	13.83	1.61	-50.61	-13.00	37.61
718.50	H	36.86	-64.06	0.00	0.94	-65.00	-13.00	52.00
767.70	V	35.63	-67.26	0.00	0.93	-68.19	-13.00	55.19
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	37.95	-65.80	10.75	0.75	-55.80	-13.00	42.80
1693.20	V	36.64	-67.71	10.75	0.75	-57.71	-13.00	44.71
2539.80	H	36.79	-66.15	13.14	1.27	-54.28	-13.00	41.28
2539.80	V	36.98	-66.08	13.14	1.27	-54.21	-13.00	41.21
3386.40	H	37.95	-61.60	14.03	1.63	-49.20	-13.00	36.20
3386.40	V	37.00	-62.64	14.03	1.63	-50.24	-13.00	37.24
808.40	H	36.76	-61.76	0.00	0.94	-62.70	-13.00	49.70
812.60	V	35.36	-66.64	0.00	0.95	-67.59	-13.00	54.59

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

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
3700.40	H	36.08	-61.91	14.00	1.83	-49.74	-13.00	36.74
3700.40	V	37.58	-60.39	14.00	1.83	-48.22	-13.00	35.22
5550.60	H	34.35	-59.62	13.95	1.27	-46.94	-13.00	33.94
5550.60	V	35.25	-58.57	13.95	1.27	-45.89	-13.00	32.89
922.10	H	36.18	-60.04	0.00	0.98	-61.02	-13.00	48.02
844.90	V	37.97	-62.98	0.00	0.98	-63.96	-13.00	50.96
GSM 1900 Frequency:1880MHz								
3760.00	H	35.98	-61.66	13.76	1.63	-49.53	-13.00	36.53
3760.00	V	37.65	-59.85	13.76	1.63	-47.72	-13.00	34.72
5640.00	H	34.56	-59.03	14.02	1.31	-46.32	-13.00	33.32
5640.00	V	35.64	-57.84	14.02	1.31	-45.13	-13.00	32.13
844.90	H	37.17	-60.80	0.00	0.98	-61.78	-13.00	48.78
844.90	V	38.06	-62.89	0.00	0.98	-63.87	-13.00	50.87
GSM 1900 Frequency:1909.8MHz								
3819.60	H	36.98	-60.27	13.56	1.50	-48.21	-13.00	35.21
3819.60	V	37.15	-59.92	13.56	1.50	-47.86	-13.00	34.86
5729.40	H	34.65	-59.06	13.96	1.31	-46.41	-13.00	33.41
5729.40	V	36.84	-56.84	13.96	1.31	-44.19	-13.00	31.19
844.90	H	37.28	-60.69	0.00	0.98	-61.67	-13.00	48.67
844.90	V	38.11	-62.84	0.00	0.98	-63.82	-13.00	50.82

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
3704.80	H	39.01	-58.95	13.98	1.81	-46.78	-13.00	33.78
3704.80	V	40.65	-57.28	13.98	1.81	-45.11	-13.00	32.11
5557.20	H	37.65	-56.24	13.97	1.27	-43.54	-13.00	30.54
5557.20	V	38.26	-55.48	13.97	1.27	-42.78	-13.00	29.78
857.50	H	35.41	-62.37	0.00	1.00	-63.37	-13.00	50.37
825.20	V	35.16	-66.43	0.00	0.96	-67.39	-13.00	54.39
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	38.69	-58.95	13.76	1.63	-46.82	-13.00	33.82
3760.00	V	40.25	-57.25	13.76	1.63	-45.12	-13.00	32.12
5640.00	H	36.23	-57.36	14.02	1.31	-44.65	-13.00	31.65
5640.00	V	36.99	-56.49	14.02	1.31	-43.78	-13.00	30.78
860.30	H	36.95	-60.79	0.00	1.00	-61.79	-13.00	48.79
729.80	V	36.47	-66.99	0.00	0.94	-67.93	-13.00	54.93
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	38.26	-59.02	13.57	1.50	-46.95	-13.00	33.95
3815.20	V	39.55	-57.55	13.57	1.50	-45.48	-13.00	32.48
5722.80	H	35.85	-57.91	13.95	1.32	-45.28	-13.00	32.28
5722.80	V	34.95	-58.77	13.95	1.32	-46.14	-13.00	33.14
816.80	H	35.72	-62.68	0.00	0.95	-63.63	-13.00	50.63
843.50	V	35.23	-65.76	0.00	0.98	-66.74	-13.00	53.74

AWS Band, Part 27**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, Frequency:1712.4 MHz								
3424.80	H	39.02	-60.37	14.03	1.63	-47.97	-13.00	34.97
3424.80	V	39.25	-60.21	14.03	1.63	-47.81	-13.00	34.81
5137.20	H	38.01	-56.67	13.94	1.39	-44.12	-13.00	31.12
5137.20	V	36.29	-58.31	13.94	1.39	-45.76	-13.00	32.76
745.20	H	35.35	-64.82	0.00	0.94	-65.76	-13.00	52.76
613.30	V	36.23	-68.96	0.00	0.78	-69.74	-13.00	56.74
WCDMA Band IV, Frequency:1732.6 MHz								
3465.20	H	38.91	-60.27	13.90	1.62	-47.99	-13.00	34.99
3465.20	V	38.65	-60.57	13.90	1.62	-48.29	-13.00	35.29
5197.80	H	37.02	-57.67	14.00	1.52	-45.19	-13.00	32.19
5197.80	V	35.29	-59.47	14.00	1.52	-46.99	-13.00	33.99
652.60	H	36.11	-65.65	0.00	0.85	-66.50	-13.00	53.50
673.60	V	36.10	-68.19	0.00	0.89	-69.08	-13.00	56.08
WCDMA Band II, Frequency:1952.6MHz								
3505.20	H	38.81	-60.20	13.82	1.60	-47.98	-13.00	34.98
3505.20	V	38.41	-60.60	13.82	1.60	-48.38	-13.00	35.38
5257.80	H	36.81	-58.24	14.17	1.31	-45.38	-13.00	32.38
5257.80	V	34.80	-60.33	14.17	1.31	-47.47	-13.00	34.47
835.10	H	35.51	-62.61	0.00	0.97	-63.58	-13.00	50.58
729.80	V	35.25	-68.21	0.00	0.94	-69.15	-13.00	56.15

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
3701.40	H	44.25	-53.73	13.99	1.83	-41.57	-13.00	28.57
3701.40	V	42.68	-55.28	13.99	1.83	-43.12	-13.00	30.12
5552.10	H	40.27	-53.68	13.96	1.27	-40.99	-13.00	27.99
5552.10	V	37.54	-56.26	13.96	1.27	-43.57	-13.00	30.57
903.80	H	35.29	-61.69	0.00	1.04	-62.73	-13.00	49.73
832.30	V	35.32	-66.04	0.00	0.97	-67.01	-13.00	54.01
QPSK,Frequency:1880 MHz								
3760.00	H	43.65	-53.99	13.76	1.63	-41.86	-13.00	28.86
3760.00	V	42.98	-54.52	13.76	1.63	-42.39	-13.00	29.39
5640.00	H	40.33	-53.26	14.02	1.31	-40.55	-13.00	27.55
5640.00	V	38.23	-55.25	14.02	1.31	-42.54	-13.00	29.54
748.00	H	35.36	-64.74	0.00	0.94	-65.68	-13.00	52.68
771.90	V	35.37	-67.46	0.00	0.93	-68.39	-13.00	55.39
QPSK,Frequency:1909.3 MHz								
3818.60	H	44.21	-53.05	13.56	1.50	-40.99	-13.00	27.99
3818.60	V	43.26	-53.81	13.56	1.50	-41.75	-13.00	28.75
5727.90	H	40.65	-53.07	13.96	1.31	-40.42	-13.00	27.42
5727.90	V	37.25	-56.44	13.96	1.31	-43.79	-13.00	30.79
888.40	H	35.37	-61.95	0.00	1.04	-62.99	-13.00	49.99
791.50	V	36.03	-66.51	0.00	0.93	-67.44	-13.00	54.44

LTE Band 4 (30MHz-20GHz):

EFL Band 4 (36MHz-20GHz):								
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	45.40	-54.00	14.04	1.63	-41.59	-13.00	28.59
3421.40	V	44.68	-54.80	14.04	1.63	-42.39	-13.00	29.39
5132.10	H	41.13	-53.55	13.93	1.37	-40.99	-13.00	27.99
5132.10	V	37.56	-57.03	13.93	1.37	-44.47	-13.00	31.47
871.60	H	35.32	-62.25	0.00	1.02	-63.27	-13.00	50.27
835.10	V	36.05	-65.22	0.00	0.97	-66.19	-13.00	53.19
QPSK, Frequency: 1732.5 MHz								
3465.00	H	44.78	-54.41	13.91	1.62	-42.12	-13.00	29.12
3465.00	V	42.34	-56.88	13.91	1.62	-44.59	-13.00	31.59
5197.50	H	40.36	-54.33	14.00	1.52	-41.85	-13.00	28.85
5197.50	V	37.68	-57.08	14.00	1.52	-44.60	-13.00	31.60
894.00	H	35.30	-61.93	0.00	1.04	-62.97	-13.00	49.97
816.80	V	35.87	-65.99	0.00	0.95	-66.94	-13.00	53.94
QPSK, Frequency: 1754.3 MHz								
3508.60	H	44.26	-54.75	13.83	1.60	-42.52	-13.00	29.52
3508.60	V	42.21	-56.80	13.83	1.60	-44.57	-13.00	31.57
5262.90	H	42.65	-52.44	14.19	1.29	-39.54	-13.00	26.54
5262.90	V	37.26	-57.91	14.19	1.29	-45.01	-13.00	32.01
659.60	H	36.00	-65.71	0.00	0.87	-66.58	-13.00	53.58
953.00	V	35.78	-60.79	0.00	0.89	-61.68	-13.00	48.68

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	39.30	-64.87	10.45	0.71	-55.13	-13.00	42.13
1649.40	V	39.01	-65.76	10.45	0.71	-56.02	-13.00	43.02
2474.10	H	40.50	-62.29	12.89	1.25	-50.65	-13.00	37.65
2474.10	V	39.51	-63.33	12.89	1.25	-51.69	-13.00	38.69
3298.80	H	38.36	-61.45	13.60	1.59	-49.44	-13.00	36.44
3298.80	V	38.53	-61.28	13.60	1.59	-49.27	-13.00	36.27
783.10	H	35.60	-63.52	0.00	0.93	-64.45	-13.00	51.45
943.10	V	35.22	-61.83	0.00	0.92	-62.75	-13.00	49.75
QPSK, Frequency: 836.5 MHz								
1673.00	H	38.55	-65.39	10.61	0.73	-55.51	-13.00	42.51
1673.00	V	38.21	-66.33	10.61	0.73	-56.45	-13.00	43.45
2509.50	H	38.89	-64.02	13.11	1.25	-52.16	-13.00	39.16
2509.50	V	38.78	-64.16	13.11	1.25	-52.30	-13.00	39.30
3346.00	H	37.65	-62.03	13.83	1.61	-49.81	-13.00	36.81
3346.00	V	37.42	-62.30	13.83	1.61	-50.08	-13.00	37.08
785.90	H	35.94	-63.10	0.00	0.93	-64.03	-13.00	51.03
771.90	V	35.93	-66.90	0.00	0.93	-67.83	-13.00	54.83
QPSK, Frequency: 848.3 MHz								
1696.60	H	40.84	-62.87	10.78	0.75	-52.84	-13.00	39.84
1696.60	V	40.58	-63.73	10.78	0.75	-53.70	-13.00	40.70
2544.90	H	39.64	-63.31	13.14	1.27	-51.44	-13.00	38.44
2544.90	V	39.83	-63.25	13.14	1.27	-51.38	-13.00	38.38
3393.20	H	38.82	-60.71	14.07	1.64	-48.28	-13.00	35.28
3393.20	V	38.17	-61.45	14.07	1.64	-49.02	-13.00	36.02
762.10	H	35.46	-64.24	0.00	0.93	-65.17	-13.00	52.17
741.00	V	35.32	-67.97	0.00	0.94	-68.91	-13.00	55.91

LTE Band 12(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
1399.40	H	40.22	-63.17	9.00	1.20	-55.37	-13.00	42.37
1399.40	V	39.31	-64.68	9.00	1.20	-56.88	-13.00	43.88
2099.10	H	39.12	-62.95	11.41	1.10	-52.64	-13.00	39.64
2099.10	V	41.95	-60.12	11.41	1.10	-49.81	-13.00	36.81
2798.80	H	39.03	-62.69	13.10	1.36	-50.95	-13.00	37.95
2798.80	V	39.72	-62.20	13.10	1.36	-50.46	-13.00	37.46
590.80	H	36.97	-65.35	0.00	0.76	-66.11	-13.00	53.11
635.70	V	35.86	-69.00	0.00	0.82	-69.82	-13.00	56.82
QPSK, Frequency: 707.5 MHz								
1415.00	H	38.63	-64.98	9.08	1.22	-57.12	-13.00	44.12
1415.00	V	38.56	-65.57	9.08	1.22	-57.71	-13.00	44.71
2122.50	H	40.33	-61.68	11.27	1.11	-51.52	-13.00	38.52
2122.50	V	39.76	-62.23	11.27	1.11	-52.07	-13.00	39.07
2830.00	H	38.10	-63.32	13.34	1.36	-51.34	-13.00	38.34
2830.00	V	38.91	-62.74	13.34	1.36	-50.76	-13.00	37.76
663.80	H	36.45	-65.23	0.00	0.87	-66.10	-13.00	53.10
864.50	V	35.28	-65.03	0.00	1.01	-66.04	-13.00	53.04
QPSK, Frequency: 715.3 MHz								
1430.60	H	40.81	-63.03	9.15	1.25	-55.13	-13.00	42.13
1430.60	V	38.91	-65.37	9.15	1.25	-57.47	-13.00	44.47
2145.90	H	39.79	-62.17	11.12	1.12	-52.17	-13.00	39.17
2145.90	V	38.86	-63.06	11.12	1.12	-53.06	-13.00	40.06
2861.20	H	38.93	-62.18	13.59	1.35	-49.94	-13.00	36.94
2861.20	V	39.39	-61.98	13.59	1.35	-49.74	-13.00	36.74
882.80	H	35.62	-61.78	0.00	1.03	-62.81	-13.00	49.81
853.30	V	35.16	-65.51	0.00	0.99	-66.50	-13.00	53.50

LTE Band 13(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 779.5 MHz								
1559.00	H	38.13	-66.60	9.85	0.95	-57.70	-40.00	17.70
1559.00	V	38.69	-66.43	9.85	0.95	-57.53	-40.00	17.53
2338.50	H	38.81	-63.46	11.62	1.25	-53.09	-13.00	40.09
2338.50	V	38.30	-63.98	11.62	1.25	-53.61	-13.00	40.61
3118.00	H	37.55	-62.15	13.27	1.78	-50.66	-13.00	37.66
3118.00	V	37.72	-61.99	13.27	1.78	-50.50	-13.00	37.50
718.50	H	36.61	-64.31	0.00	0.94	-65.25	-13.00	52.25
857.50	V	35.62	-64.92	0.00	1.00	-65.92	-13.00	52.92
QPSK, Frequency:782 MHz								
1564.00	H	39.41	-65.31	9.88	0.92	-56.35	-40.00	16.35
1564.00	V	38.75	-66.39	9.88	0.92	-57.43	-40.00	17.43
2346.00	H	40.12	-62.17	11.71	1.26	-51.72	-13.00	38.72
2346.00	V	38.98	-63.35	11.71	1.26	-52.90	-13.00	39.90
3128.00	H	38.95	-60.63	13.31	1.76	-49.08	-13.00	36.08
3128.00	V	38.05	-61.54	13.31	1.76	-49.99	-13.00	36.99
718.50	H	36.61	-64.31	0.00	0.94	-65.25	-13.00	52.25
857.50	V	35.62	-64.92	0.00	1.00	-65.92	-13.00	52.92
QPSK, Frequency:784.5 MHz								
1569.00	H	38.39	-66.32	9.91	0.89	-57.30	-40.00	17.30
1569.00	V	38.95	-66.20	9.91	0.89	-57.18	-40.00	17.18
2353.50	H	39.07	-63.25	11.79	1.26	-52.72	-13.00	39.72
2353.50	V	38.56	-63.82	11.79	1.26	-53.29	-13.00	40.29
3138.00	H	37.81	-61.64	13.35	1.73	-50.02	-13.00	37.02
3138.00	V	37.98	-61.49	13.35	1.73	-49.87	-13.00	36.87
864.50	H	35.42	-62.26	0.00	1.01	-63.27	-13.00	50.27
712.90	V	35.96	-67.75	0.00	0.94	-68.69	-13.00	55.69

LTE Band 25 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
3701.40	H	44.91	-53.07	13.99	1.83	-40.91	-13.00	27.91
3701.40	V	40.89	-57.07	13.99	1.83	-44.91	-13.00	31.91
5552.10	H	42.83	-51.12	13.96	1.27	-38.43	-13.00	25.43
5552.10	V	37.52	-56.28	13.96	1.27	-43.59	-13.00	30.59
791.50	H	35.75	-63.14	0.00	0.93	-64.07	-13.00	51.07
836.50	V	35.49	-65.73	0.00	0.97	-66.70	-13.00	53.70
QPSK,Frequency:1882.5 MHz								
3765.00	H	43.75	-53.86	13.74	1.62	-41.74	-13.00	28.74
3765.00	V	41.45	-56.01	13.74	1.62	-43.89	-13.00	30.89
5647.50	H	40.26	-53.38	14.01	1.31	-40.68	-13.00	27.68
5647.50	V	37.21	-56.31	14.01	1.31	-43.61	-13.00	30.61
865.90	H	35.50	-62.15	0.00	1.01	-63.16	-13.00	50.16
767.90	V	35.90	-66.99	0.00	0.93	-67.92	-13.00	54.92
QPSK,Frequency:1914.3 MHz								
3828.60	H	45.47	-51.71	13.54	1.51	-39.68	-13.00	26.68
3828.60	V	41.81	-55.20	13.54	1.51	-43.17	-13.00	30.17
5742.90	H	41.09	-52.52	13.99	1.30	-39.83	-13.00	26.83
5742.90	V	37.66	-55.93	13.99	1.30	-43.24	-13.00	30.24
880.00	H	35.62	-61.82	0.00	1.03	-62.85	-13.00	49.85
804.20	V	35.71	-66.56	0.00	0.94	-67.50	-13.00	54.50

LTE Band 26(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 814.7 MHz								
1629.40	H	39.78	-64.58	10.31	0.70	-54.97	-13.00	41.97
1629.40	V	40.72	-64.24	10.31	0.70	-54.63	-13.00	41.63
2444.10	H	39.17	-63.48	12.65	1.27	-52.10	-13.00	39.10
2444.10	V	41.15	-61.62	12.65	1.27	-50.24	-13.00	37.24
3258.80	H	39.29	-60.06	13.60	1.58	-48.04	-13.00	35.04
3258.80	V	38.59	-60.78	13.60	1.58	-48.76	-13.00	35.76
781.70	H	35.60	-63.56	0.00	0.93	-64.49	-13.00	51.49
771.90	V	35.83	-67.00	0.00	0.93	-67.93	-13.00	54.93
QPSK, Frequency: 831.5 MHz								
1663.00	H	38.99	-65.05	10.54	0.72	-55.23	-13.00	42.23
1663.00	V	39.26	-65.38	10.54	0.72	-55.56	-13.00	42.56
2494.50	H	41.80	-61.08	13.06	1.24	-49.26	-13.00	36.26
2494.50	V	41.99	-60.90	13.06	1.24	-49.08	-13.00	36.08
3326.00	H	37.98	-61.76	13.73	1.60	-49.63	-13.00	36.63
3326.00	V	38.38	-61.39	13.73	1.60	-49.26	-13.00	36.26
934.70	H	34.95	-60.75	0.00	0.94	-61.69	-13.00	48.69
901.00	V	35.18	-63.92	0.00	1.05	-64.97	-13.00	51.97
QPSK, Frequency: 848.3 MHz								
1696.60	H	39.84	-63.87	10.78	0.75	-53.84	-13.00	40.84
1696.60	V	40.63	-63.68	10.78	0.75	-53.65	-13.00	40.65
2544.90	H	39.69	-63.26	13.14	1.27	-51.39	-13.00	38.39
2544.90	V	40.71	-62.37	13.14	1.27	-50.50	-13.00	37.50
3393.20	H	38.59	-60.94	14.07	1.64	-48.51	-13.00	35.51
3393.20	V	38.73	-60.89	14.07	1.64	-48.46	-13.00	35.46
798.60	H	35.57	-63.12	0.00	0.93	-64.05	-13.00	51.05
814.00	V	35.77	-66.18	0.00	0.95	-67.13	-13.00	54.13

LTE Band 41(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2498.5 MHz								
4997.00	H	37.56	-58.57	14.00	1.44	-46.01	-25.00	21.01
4997.00	V	36.95	-58.92	14.00	1.44	-46.36	-25.00	21.36
7495.50	H	35.99	-52.65	13.20	1.32	-40.77	-25.00	15.77
7495.50	V	34.95	-54.17	13.20	1.32	-42.29	-25.00	17.29
792.90	H	35.56	-63.29	0.00	0.93	-64.22	-25.00	39.22
762.10	V	35.43	-67.54	0.00	0.93	-68.47	-25.00	43.47
QPSK, Frequency:2593 MHz								
5186.00	H	37.25	-57.44	13.99	1.50	-44.95	-25.00	19.95
5186.00	V	36.46	-58.27	13.99	1.50	-45.78	-25.00	20.78
7779.00	H	35.62	-53.69	13.32	1.53	-41.90	-25.00	16.90
7779.00	V	34.50	-55.06	13.32	1.53	-43.27	-25.00	18.27
734.00	H	35.69	-64.79	0.00	0.94	-65.73	-25.00	40.73
791.50	V	35.47	-67.07	0.00	0.93	-68.00	-25.00	43.00
QPSK, Frequency: 2687.5 MHz								
5375.00	H	37.65	-56.68	14.15	1.38	-43.91	-25.00	18.91
5375.00	V	36.55	-57.77	14.15	1.38	-45.00	-25.00	20.00
8062.50	H	35.86	-53.92	13.34	1.72	-42.30	-25.00	17.30
8062.50	V	34.98	-54.87	13.34	1.72	-43.25	-25.00	18.25
847.70	H	35.65	-62.28	0.00	0.99	-63.27	-25.00	38.27
850.50	V	35.23	-65.53	0.00	0.99	-66.52	-25.00	41.52

LTE Band 66(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	40.02	-59.38	14.04	1.63	-46.97	-13.00	33.97
3421.40	V	39.88	-59.60	14.04	1.63	-47.19	-13.00	34.19
5132.10	H	36.18	-58.50	13.93	1.37	-45.94	-13.00	32.94
5132.10	V	36.84	-57.75	13.93	1.37	-45.19	-13.00	32.19
753.60	H	36.94	-63.00	0.00	0.93	-63.93	-13.00	50.93
800.00	V	35.49	-66.92	0.00	0.93	-67.85	-13.00	54.85
QPSK, Frequency:1745 MHz								
3490.00	H	38.90	-60.16	13.83	1.61	-47.94	-13.00	34.94
3490.00	V	39.12	-59.95	13.83	1.61	-47.73	-13.00	34.73
5235.00	H	37.23	-57.68	14.11	1.40	-44.97	-13.00	31.97
5235.00	V	37.13	-57.86	14.11	1.40	-45.15	-13.00	32.15
663.80	H	36.80	-64.88	0.00	0.87	-65.75	-13.00	52.75
750.90	V	35.60	-67.54	0.00	0.93	-68.47	-13.00	55.47
QPSK, Frequency: 1779.3 MHz								
3558.60	H	38.19	-60.83	13.98	1.55	-48.40	-13.00	35.40
3558.60	V	38.97	-60.05	13.98	1.55	-47.62	-13.00	34.62
5337.90	H	37.01	-57.81	14.22	1.26	-44.85	-13.00	31.85
5337.90	V	37.29	-57.56	14.22	1.26	-44.60	-13.00	31.60
833.70	H	35.29	-62.85	0.00	0.97	-63.82	-13.00	50.82
797.20	V	35.72	-66.73	0.00	0.93	-67.66	-13.00	54.66

LTE Band 71(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 665.5 MHz								
1331.00	H	36.95	-66.72	8.52	1.19	-59.39	-13.00	46.39
1331.00	V	35.69	-68.79	8.52	1.19	-61.46	-13.00	48.46
1996.50	H	36.00	-66.83	11.99	1.13	-55.97	-13.00	42.97
1996.50	V	36.98	-66.25	11.99	1.13	-55.39	-13.00	42.39
2662.00	H	37.52	-64.83	13.14	1.27	-52.96	-13.00	39.96
2662.00	V	36.49	-66.04	13.14	1.27	-54.17	-13.00	41.17
777.50	H	36.35	-62.93	0.00	0.93	-63.86	-13.00	50.86
800.00	V	35.72	-66.69	0.00	0.93	-67.62	-13.00	54.62
QPSK, Frequency: 680.5 MHz								
1361.00	H	36.54	-67.01	8.73	1.20	-59.48	-13.00	46.48
1361.00	V	35.83	-68.44	8.73	1.20	-60.91	-13.00	47.91
2041.50	H	36.04	-66.47	11.75	1.12	-55.84	-13.00	42.84
2041.50	V	36.30	-66.44	11.75	1.12	-55.81	-13.00	42.81
2722.00	H	37.25	-64.65	13.10	1.27	-52.82	-13.00	39.82
2722.00	V	35.79	-66.23	13.10	1.27	-54.40	-13.00	41.40
851.90	H	35.63	-62.24	0.00	0.99	-63.23	-13.00	50.23
870.20	V	35.62	-64.50	0.00	1.01	-65.51	-13.00	52.51
QPSK, Frequency: 695.5MHz								
1391.00	H	36.25	-67.18	8.94	1.20	-59.44	-13.00	46.44
1391.00	V	35.96	-68.09	8.94	1.20	-60.35	-13.00	47.35
2086.50	H	36.25	-65.91	11.48	1.10	-55.53	-13.00	42.53
2086.50	V	36.95	-65.27	11.48	1.10	-54.89	-13.00	41.89
2782.00	H	37.26	-64.50	13.10	1.34	-52.74	-13.00	39.74
2782.00	V	36.09	-65.85	13.10	1.34	-54.09	-13.00	41.09
787.30	H	36.61	-62.39	0.00	0.93	-63.32	-13.00	50.32
792.90	V	36.30	-66.22	0.00	0.93	-67.15	-13.00	54.15

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

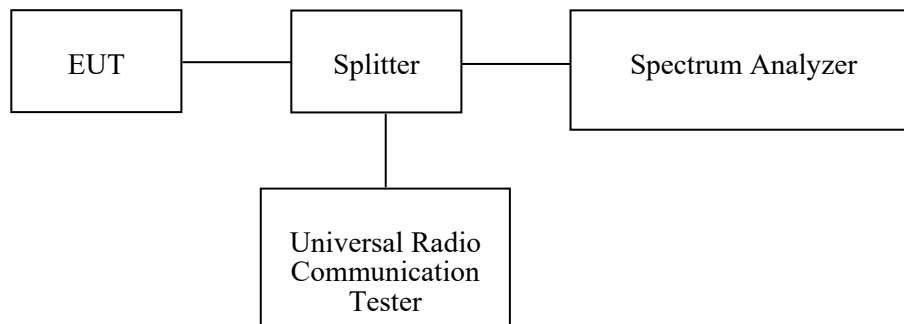
FCC §22.917(a) & §24.238(a) & §27.53 & §90.691 - BAND EDGES**Applicable Standard**

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

Test Procedure

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

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

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2020-07-07	2021-07-07
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	Each Time	N/A
R&S	Wideband Radio Communication Tester	CMW500	147473	2020-09-23	2021-09-22
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-12	2021-09-12
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A

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

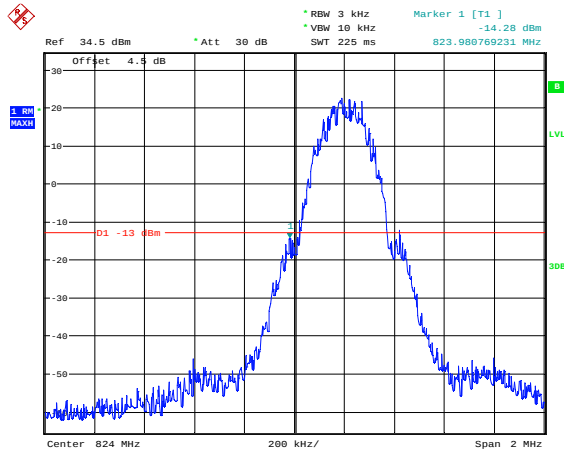
Test Data**Environmental Conditions**

Temperature:	22.1~26.3 °C
Relative Humidity:	32~44 %
ATM Pressure:	100.8~102.8kPa
Tester:	Tylor Li
Test Date:	2021-01-27~2021-02-25

Test Mode: Transmitting

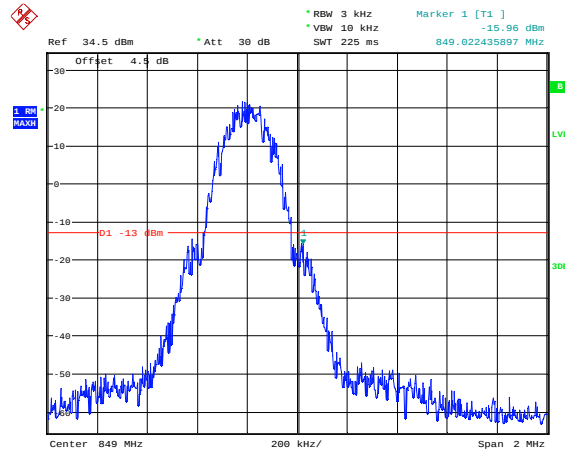
Test Result: Compliance. Please refer to the following plots.

GSM 850, Left Band Edge



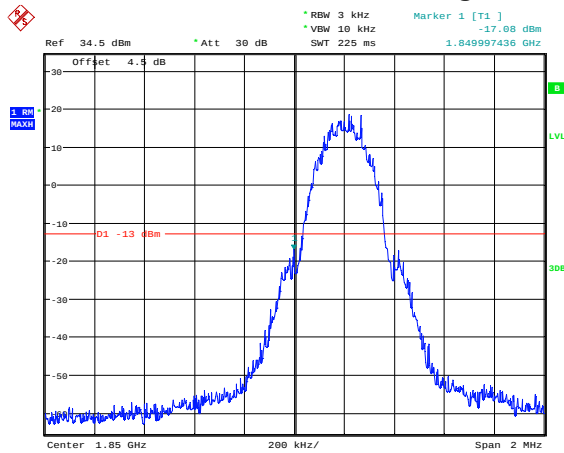
Date: 30.JAN.2021 18:03:42

GSM 850, Right Band Edge



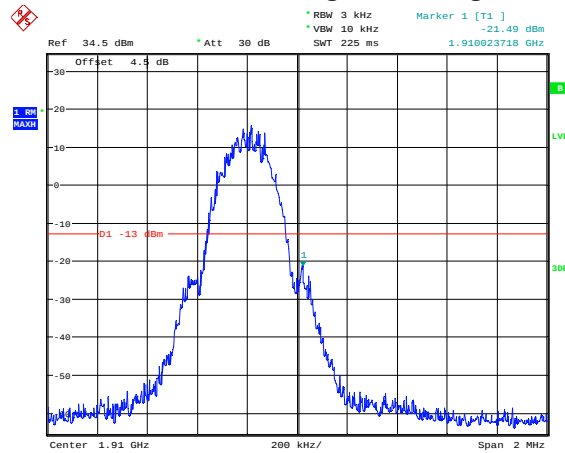
Date: 30.JAN.2021 18:04:13

GSM 1900, Left Band Edge



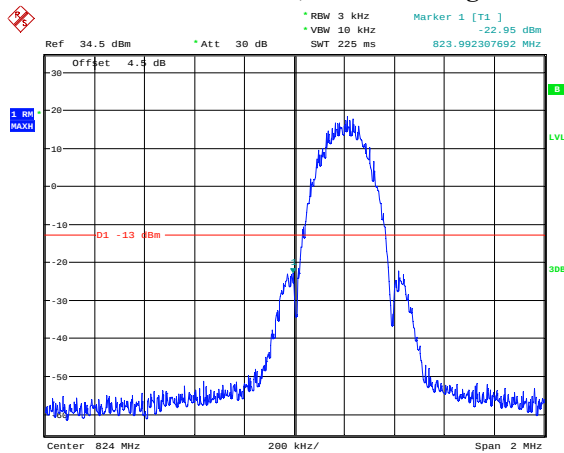
Date: 30.JAN.2021 17:26:44

GSM 1900, Right Band Edge



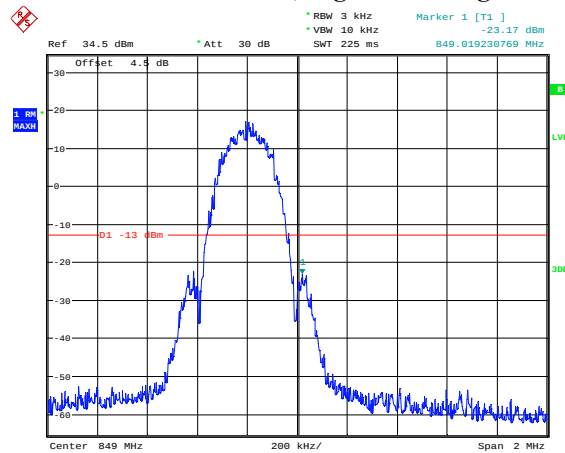
Date: 30.JAN.2021 17:27:11

EGPRS 850, Left Band Edge

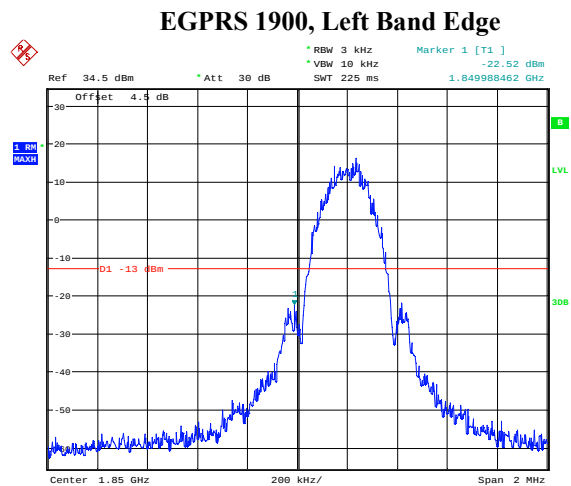


Date: 30.JAN.2021 17:38:58

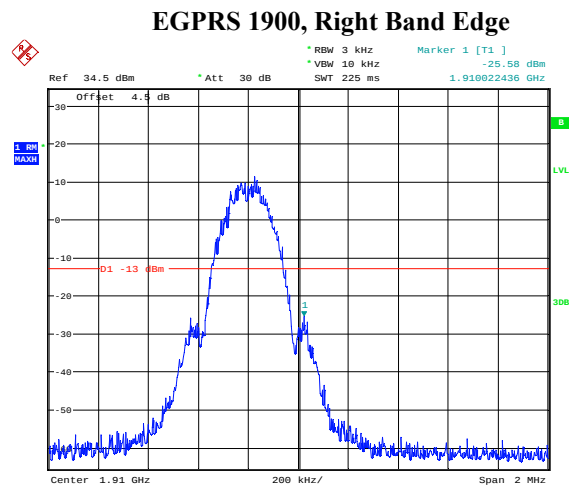
EGPRS 850, Right Band Edge



Date: 30.JAN.2021 17:39:48

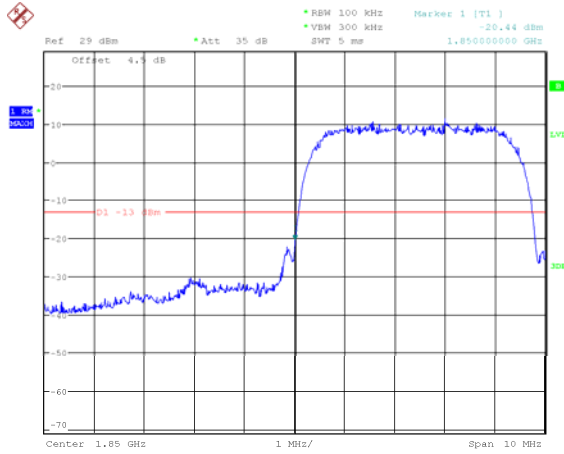


Date: 30.JAN.2021 17:00:42



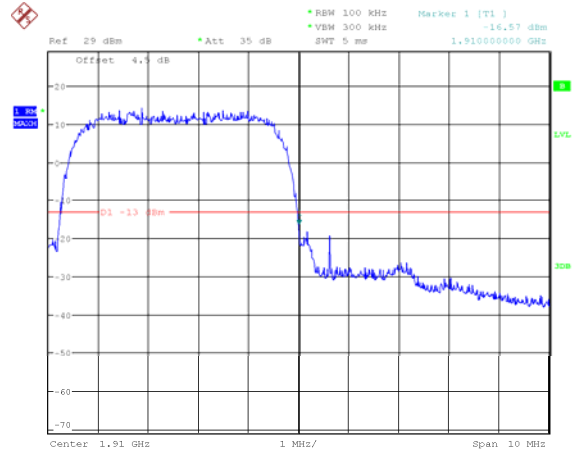
Date: 30.JAN.2021 17:00:01

WCDMA Band II,Rel99, Left Band Edge



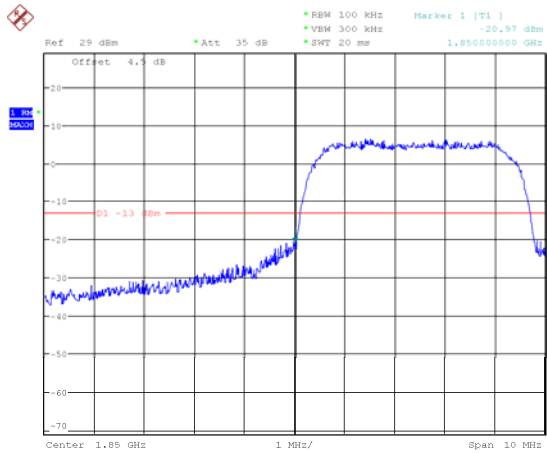
Date: 29.JAN.2021 15:51:38

WCDMA Band II,Rel99, Right Band Edge



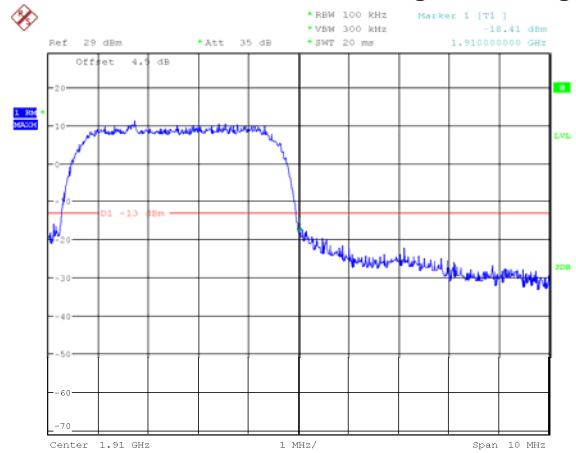
Date: 29.JAN.2021 15:53:12

WCDMA Band II,HSDPA, Left Band Edge



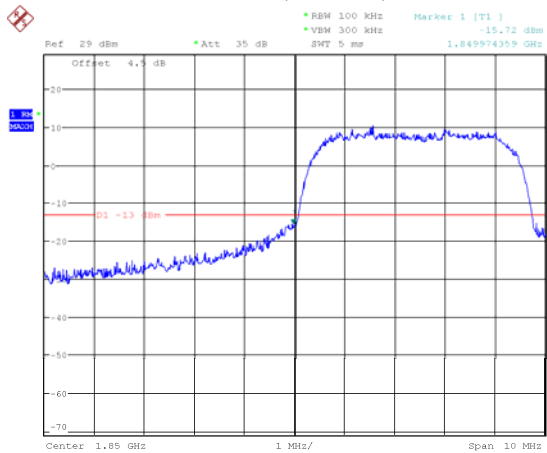
Date: 29.JAN.2021 15:48:54

WCDMA Band II,HSDPA,Right Band Edge



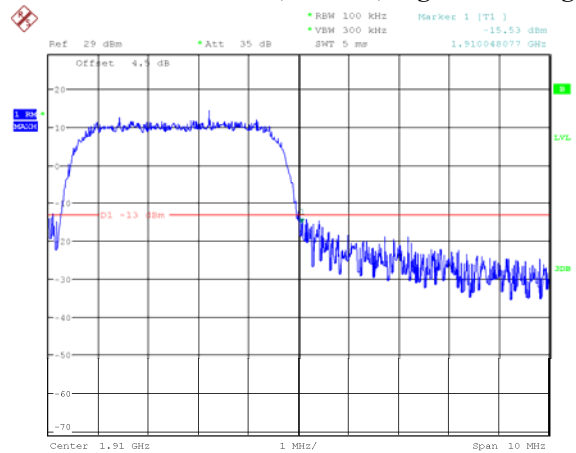
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WCDMA Band II,HSUPA, Left Band Edge



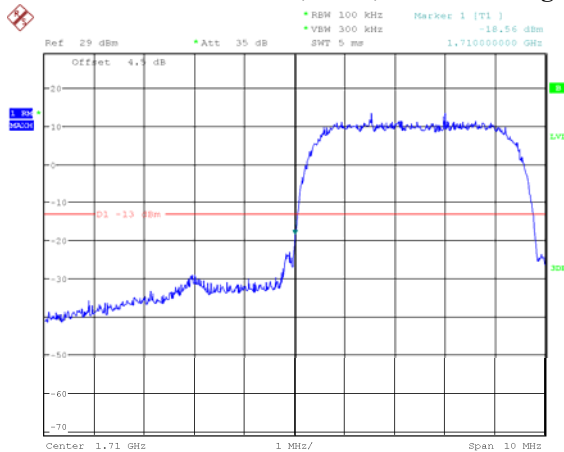
Date: 29.JAN.2021 15:59:48

WCDMA Band II,HSUPA, Right Band Edge



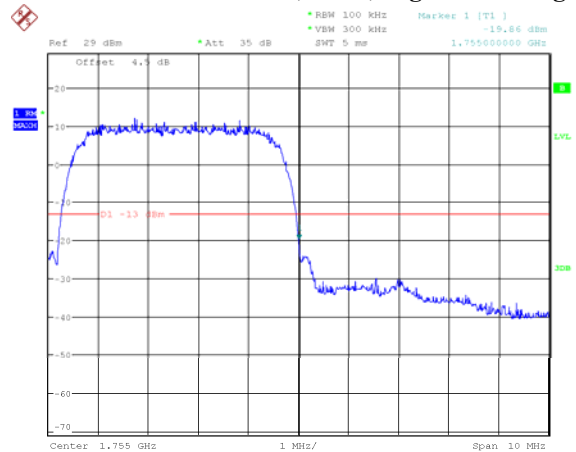
Date: 29.JAN.2021 16:10:09

WCDMA Band IV, Rel99, Left Band Edge



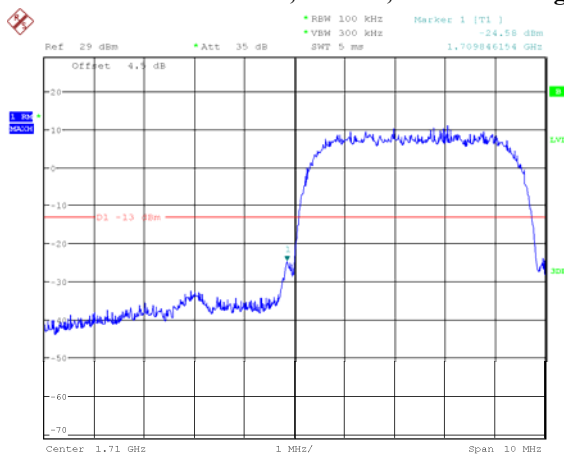
Date: 29.JAN.2021 16:33:09

WCDMA Band IV, Rel99, Right Band Edge



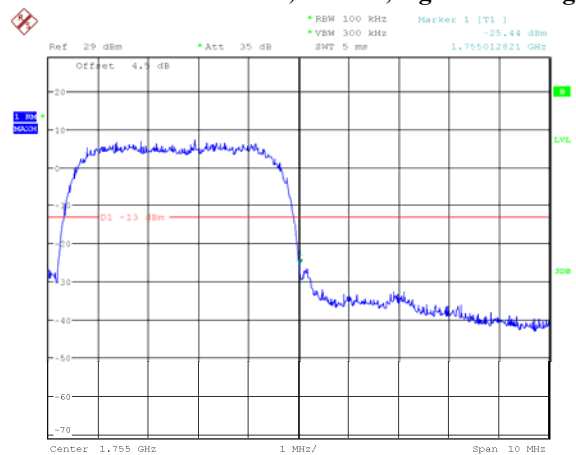
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WCDMA Band IV, HSDPA, Left Band Edge



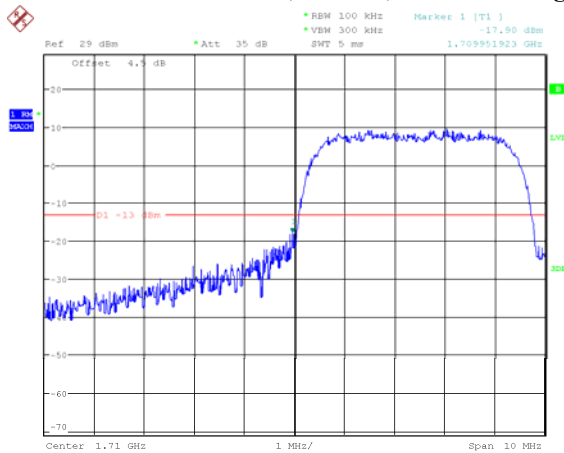
Date: 29.JAN.2021 16:35:14

WCDMA Band IV, HSDPA, Right Band Edge



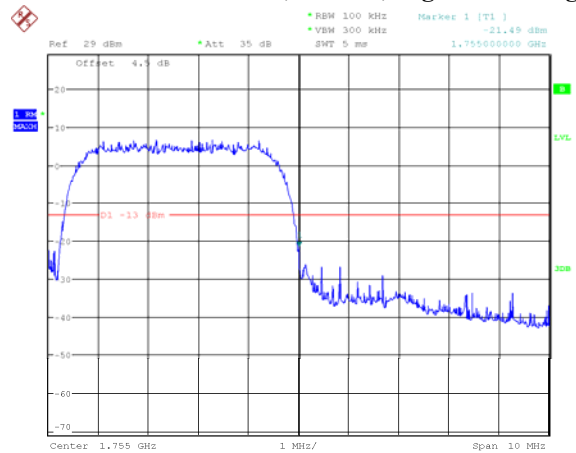
Date: 29.JAN.2021 16:36:01

WCDMA Band IV, HSUPA, Left Band Edge



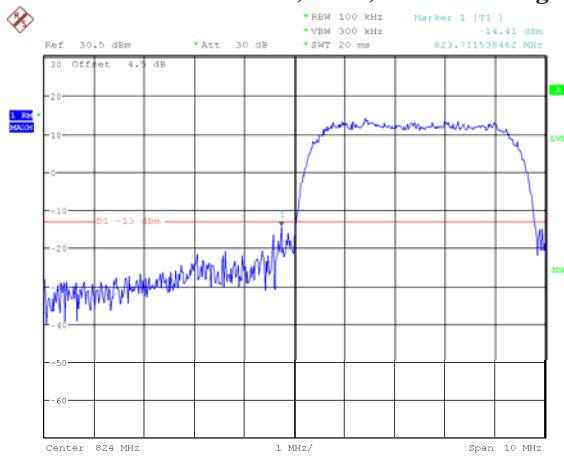
Date: 29.JAN.2021 16:39:38

WCDMA Band IV, HSUPA, Right Band Edge



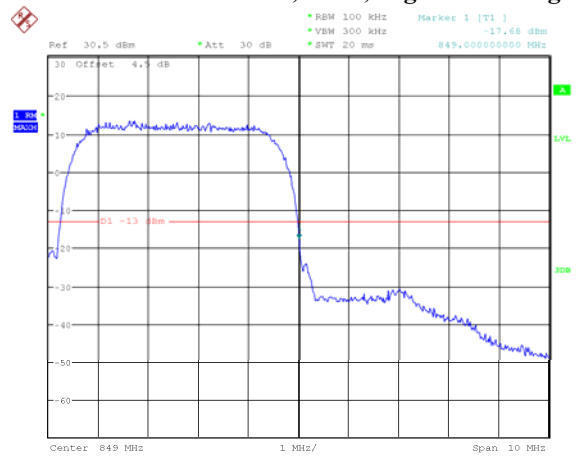
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WCDMA Band V, Rel99, Left Band Edge



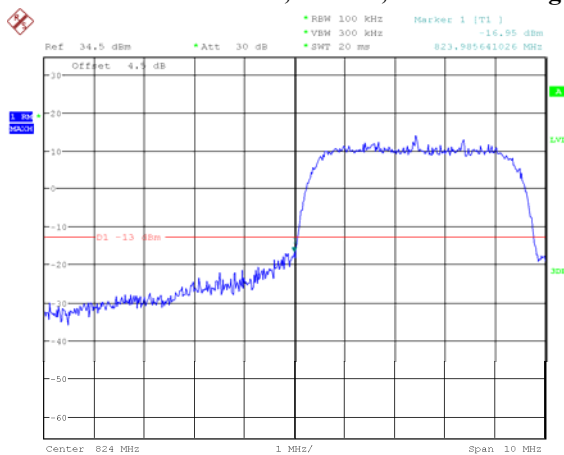
Date: 30.JAN.2021 17:00:30

WCDMA Band V, Rel99, Right Band Edge



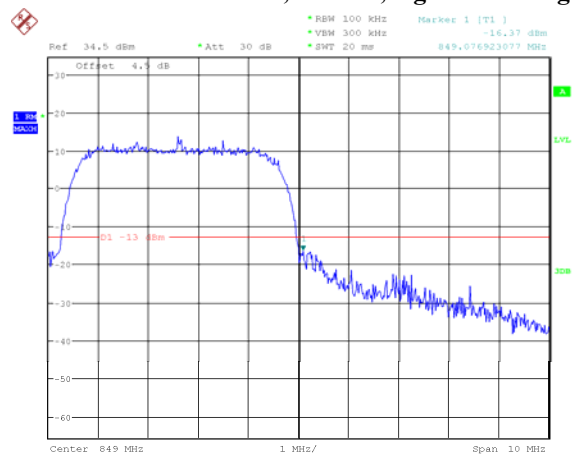
Date: 30.JAN.2021 17:01:04

WCDMA Band V, HSDPA, Left Band Edge



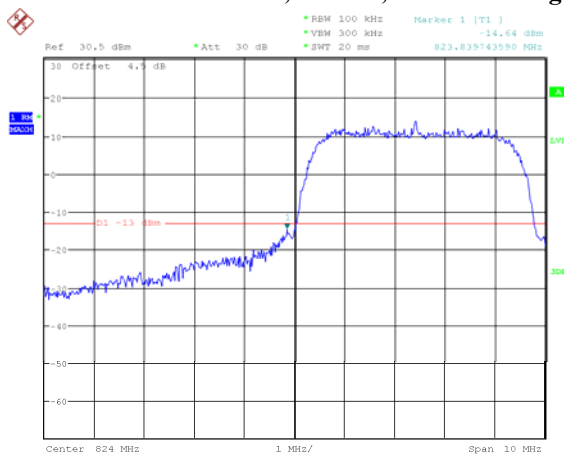
Date: 30.JAN.2021 17:19:31

WCDMA Band V, HSDPA, Right Band Edge



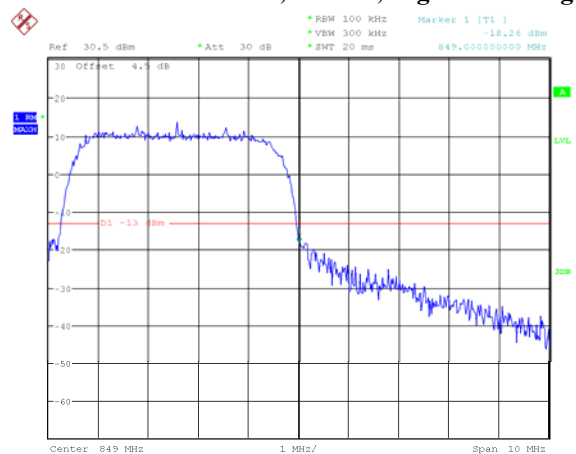
Date: 30.JAN.2021 17:20:21

WCDMA Band V, HSUPA, Left Band Edge

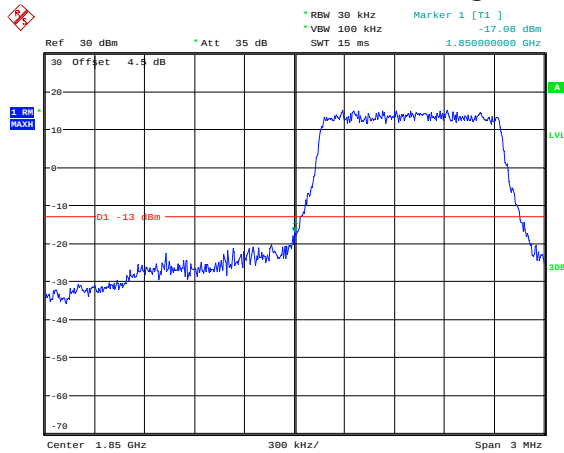


Date: 30.JAN.2021 17:10:13

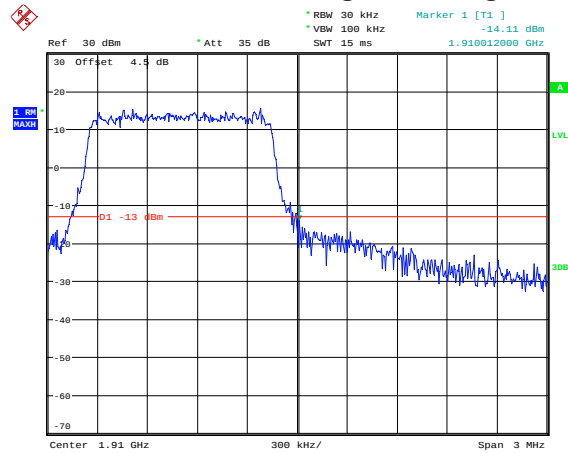
WCDMA Band V, HSUPA, Right Band Edge



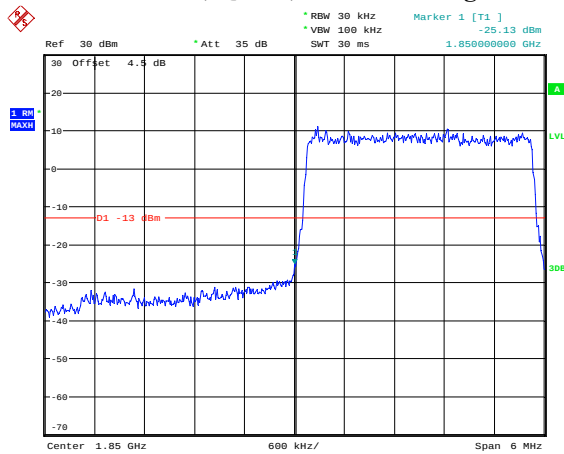
Date: 30.JAN.2021 17:02:09

LTE Band 2:**1.4M, QPSK, Left Band Edge**

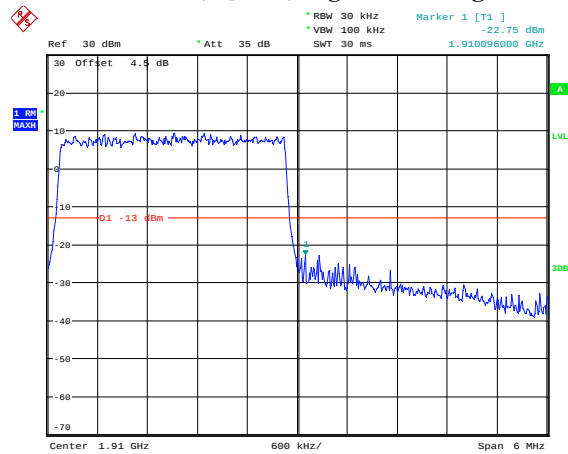
Date: 27.JAN.2021 17:48:25

1.4M, QPSK, Right Band Edge

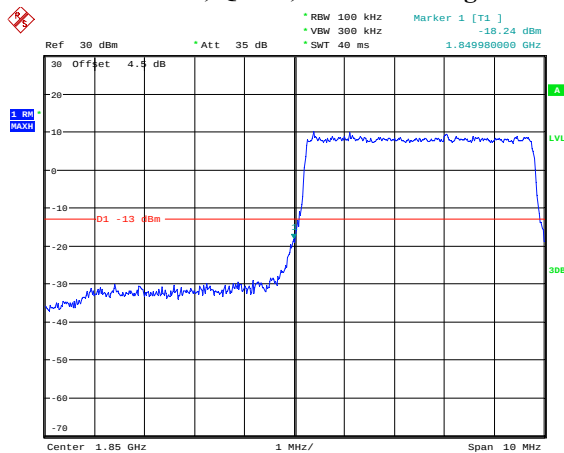
Date: 27.JAN.2021 17:49:13

3M, QPSK, Left Band Edge

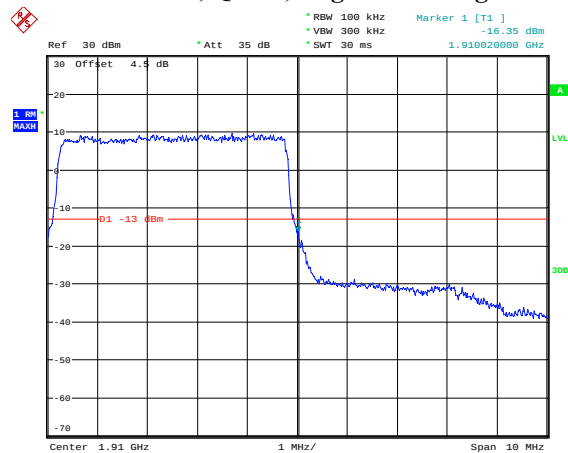
Date: 27.JAN.2021 17:50:01

3M, QPSK, Right Band Edge

Date: 27.JAN.2021 17:50:44

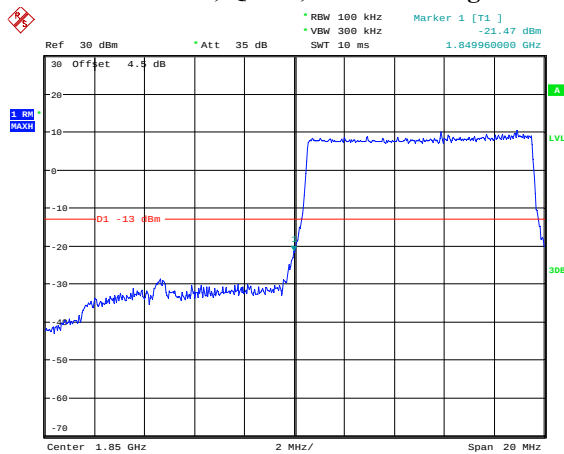
5M, QPSK, Left Band Edge

Date: 28.JAN.2021 13:16:09

5M, QPSK, Right Band Edge

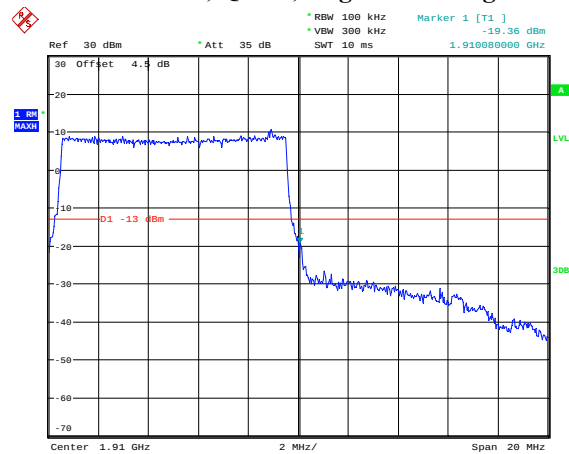
Date: 28.JAN.2021 13:17:32

10M, QPSK, Left Band Edge



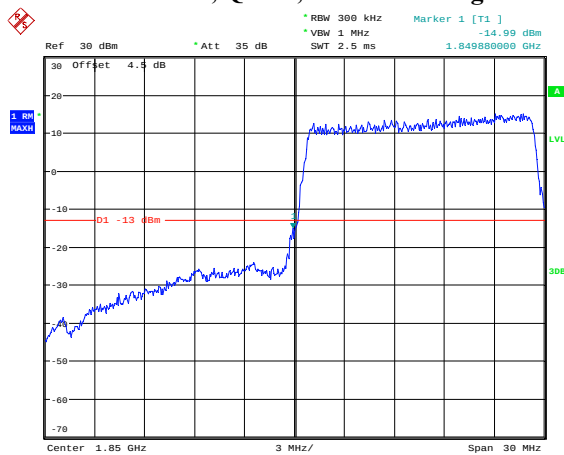
Date: 28.JAN.2021 14:17:38

10M, QPSK, Right Band Edge



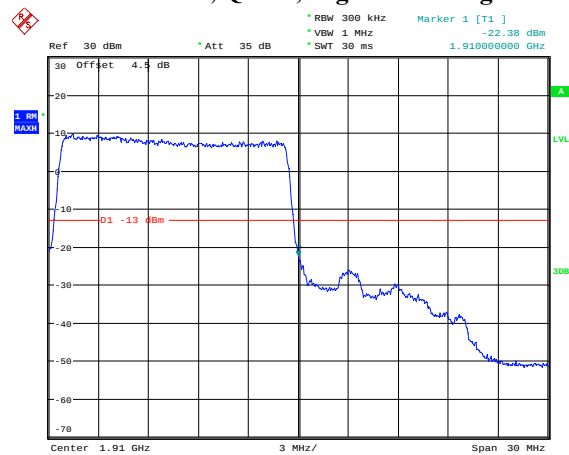
Date: 27.JAN.2021 17:53:26

15M, QPSK, Left Band Edge



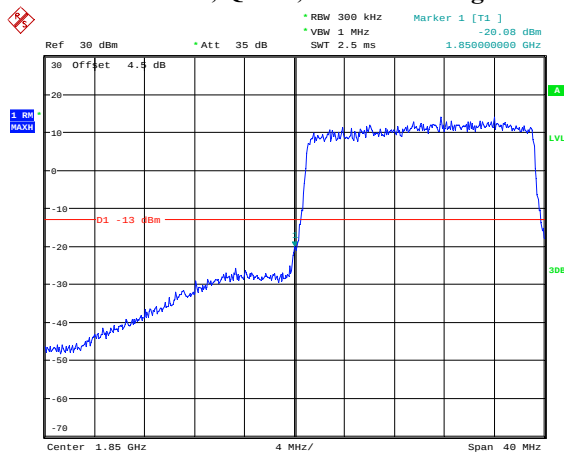
Date: 27.JAN.2021 17:54:10

15M, QPSK, Right Band Edge



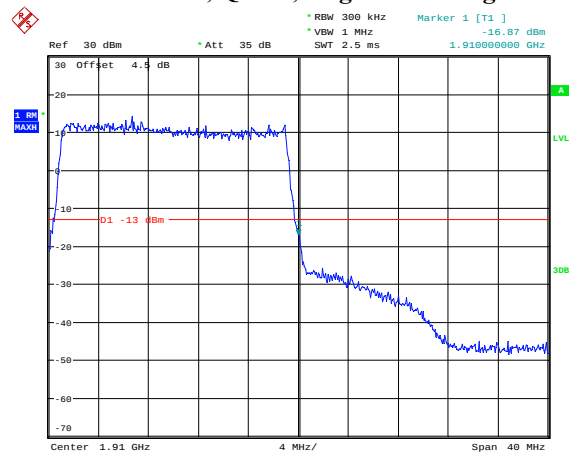
Date: 28.JAN.2021 13:22:01

20M, QPSK, Left Band Edge



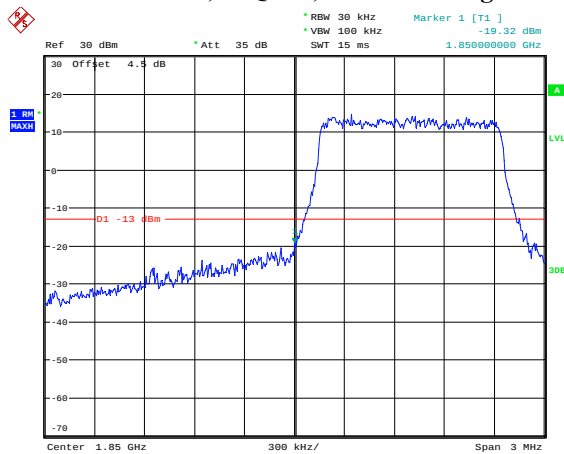
Date: 27.JAN.2021 17:55:36

20M, QPSK, Right Band Edge



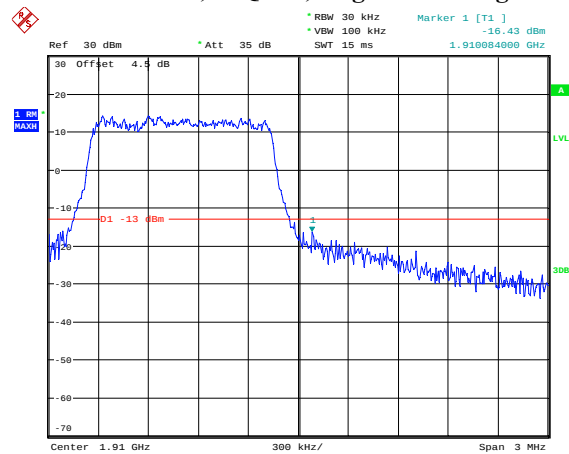
Date: 27.JAN.2021 17:56:23

1.4M, 16QAM, Left Band Edge



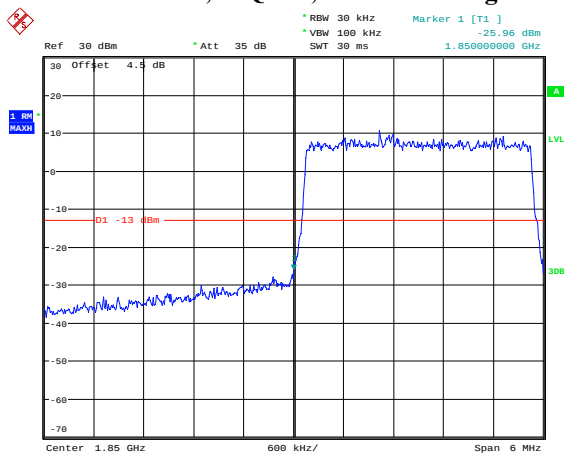
Date: 27.JAN.2021 17:48:47

1.4M, 16QAM, Right Band Edge



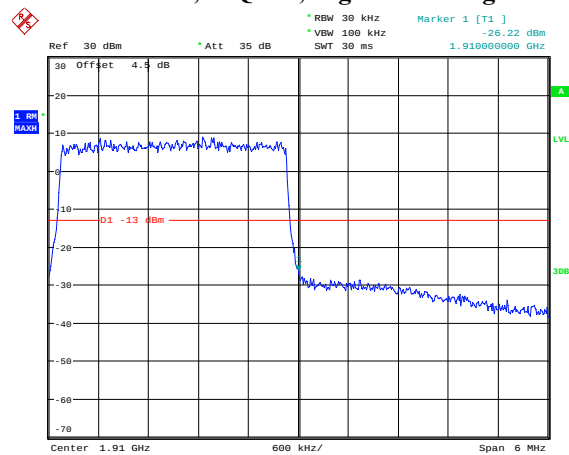
Date: 27.JAN.2021 17:49:41

3M, 16QAM, Left Band Edge



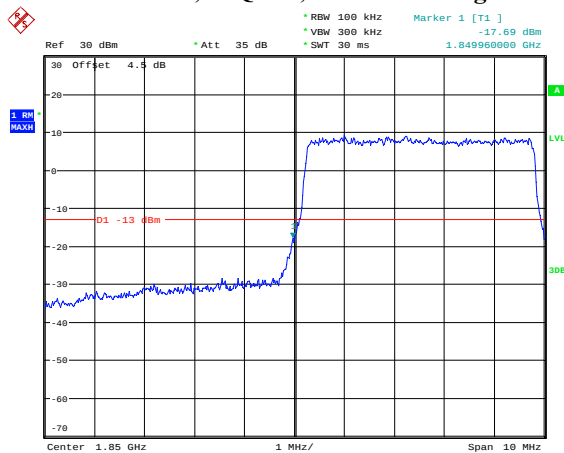
Date: 27.JAN.2021 17:50:23

3M, 16QAM, Right Band Edge



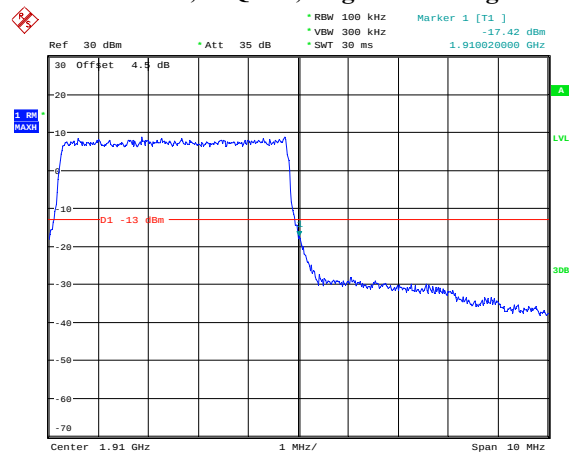
Date: 27.JAN.2021 17:51:06

5M, 16QAM, Left Band Edge



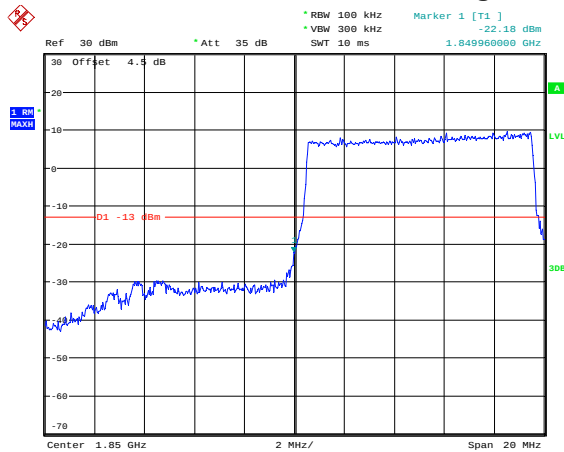
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5M, 16QAM, Right Band Edge



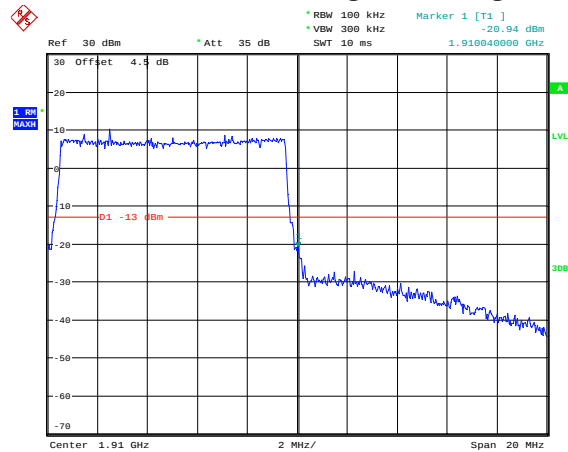
Date: 28.JAN.2021 13:20:34

10M, 16QAM, Left Band Edge



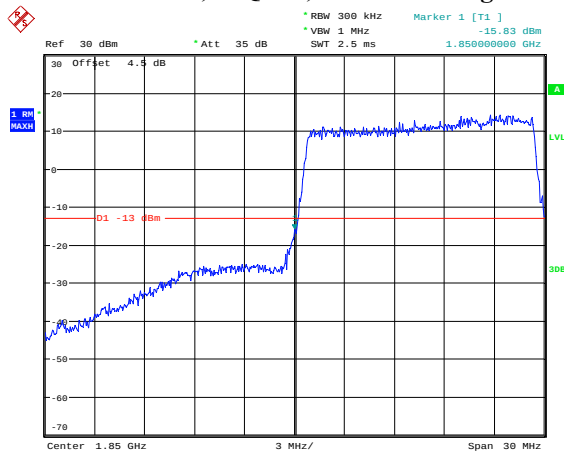
Date: 27.JAN.2021 17:53:04

10M, 16QAM, Right Band Edge



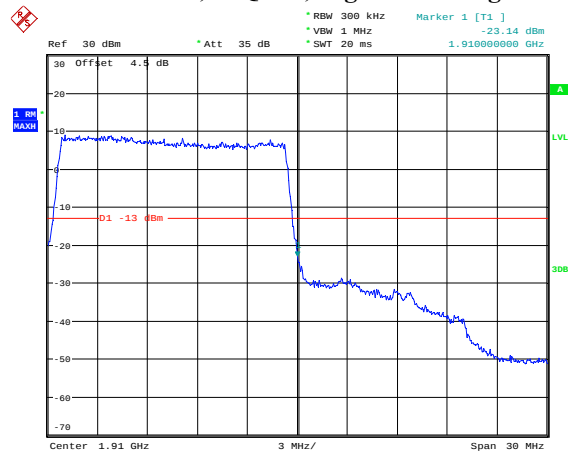
Date: 27.JAN.2021 17:53:43

15M, 16QAM, Left Band Edge



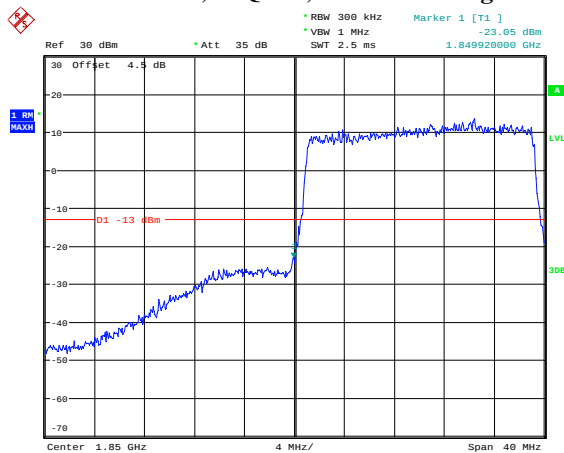
Date: 27.JAN.2021 17:54:29

15M, 16QAM, Right Band Edge



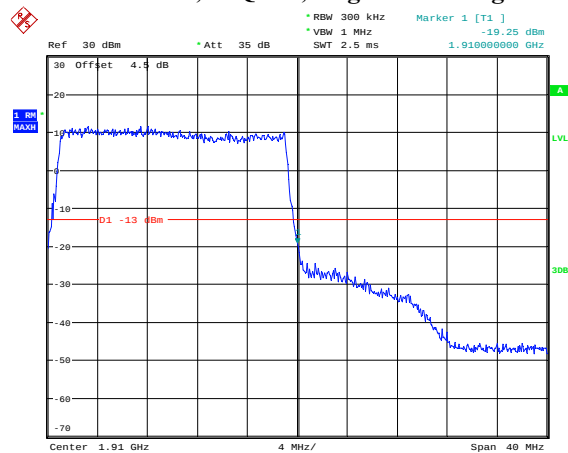
Date: 28.JAN.2021 13:22:33

20M, 16QAM, Left Band Edge

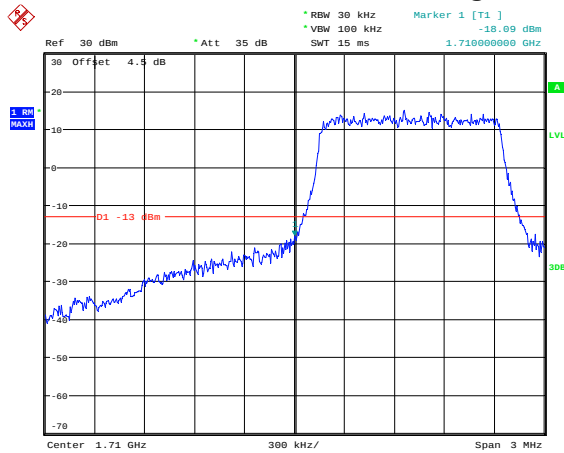


Date: 27.JAN.2021 17:55:59

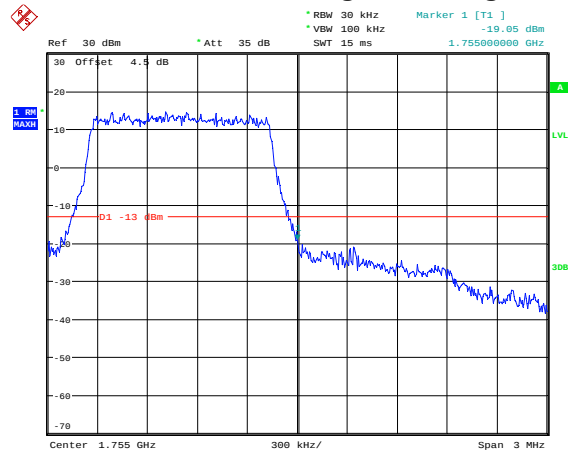
20M, 16QAM, Right Band Edge



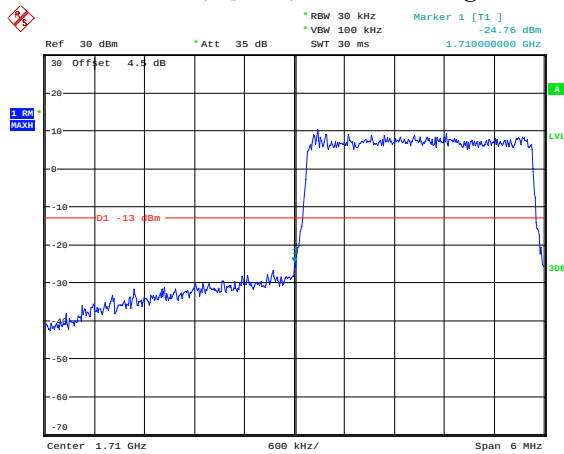
Date: 27.JAN.2021 17:56:47

LTE Band 4:**1.4M, QPSK, Left Band Edge**

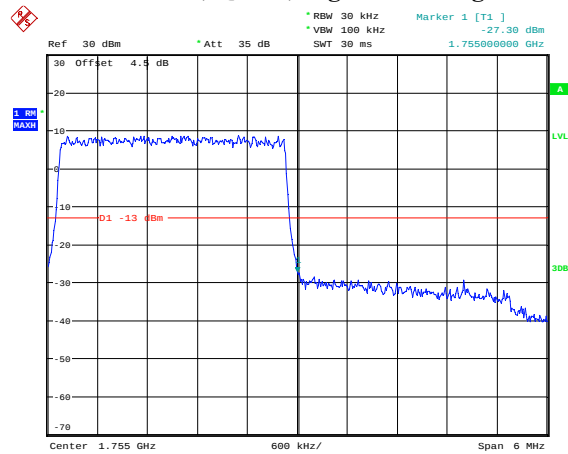
Date: 27.JAN.2021 17:57:11

1.4M, QPSK, Right Band Edge

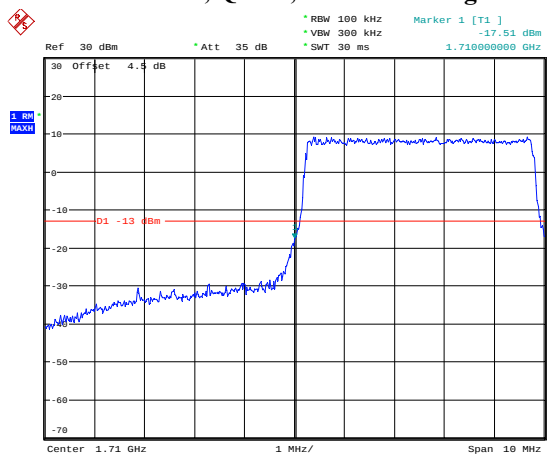
Date: 27.JAN.2021 17:57:50

3M, QPSK, Left Band Edge

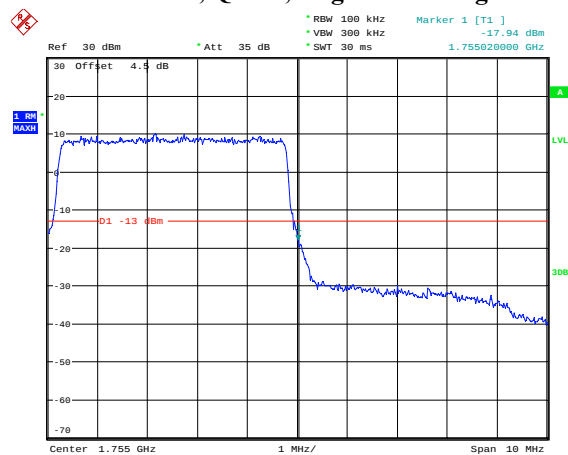
Date: 27.JAN.2021 17:58:32

3M, QPSK, Right Band Edge

Date: 27.JAN.2021 17:59:07

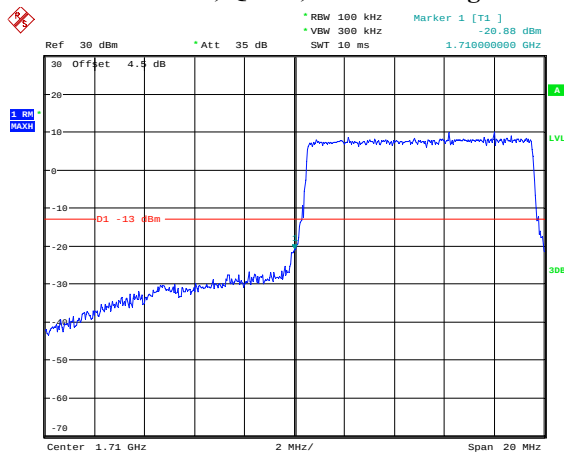
5M, QPSK, Left Band Edge

Date: 28.JAN.2021 13:24:06

5M, QPSK, Right Band Edge

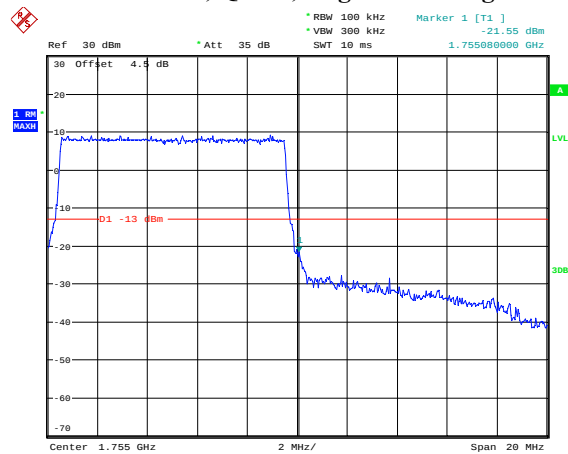
Date: 28.JAN.2021 13:25:20

10M, QPSK, Left Band Edge



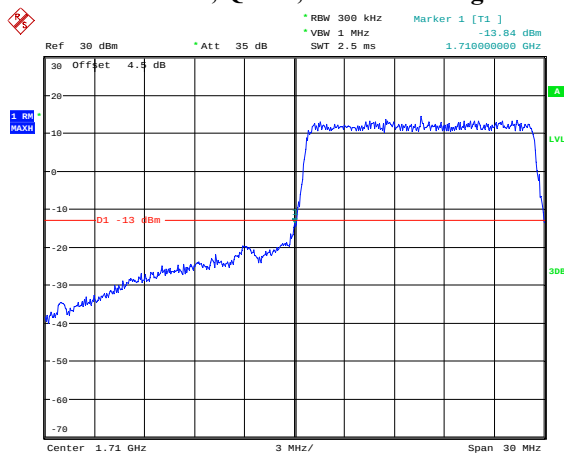
Date: 27.JAN.2021 18:01:14

10M, QPSK, Right Band Edge



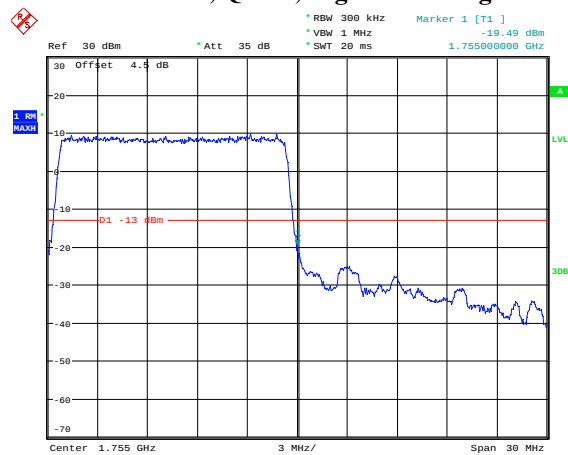
Date: 27.JAN.2021 18:01:57

15M, QPSK, Left Band Edge



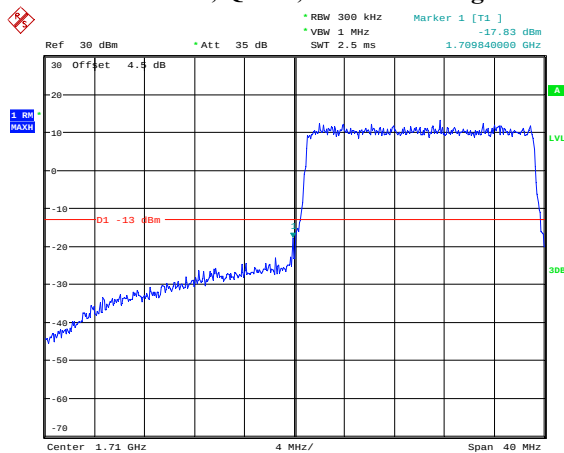
Date: 27.JAN.2021 18:02:40

15M, QPSK, Right Band Edge



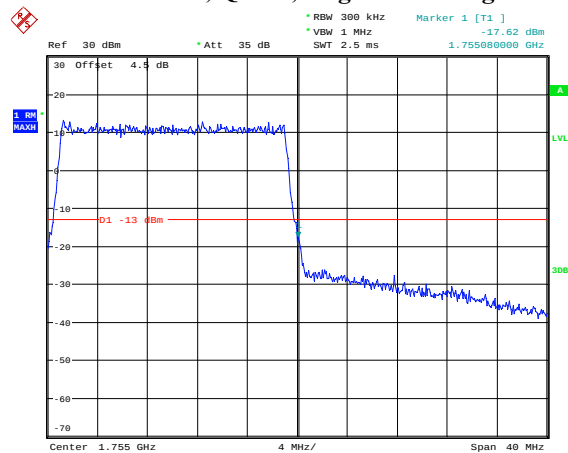
Date: 28.JAN.2021 13:27:20

20M, QPSK, Left Band Edge



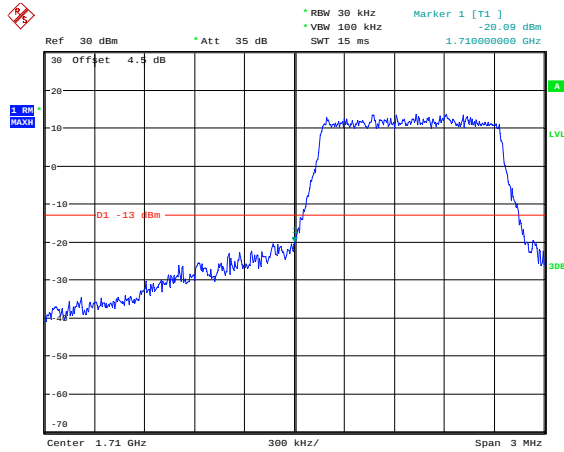
Date: 27.JAN.2021 18:04:07

20M, QPSK, Right Band Edge



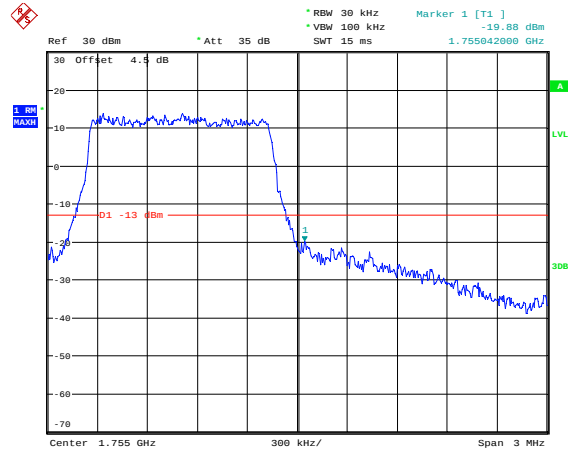
Date: 27.JAN.2021 18:04:55

1.4M, 16QAM, Left Band Edge



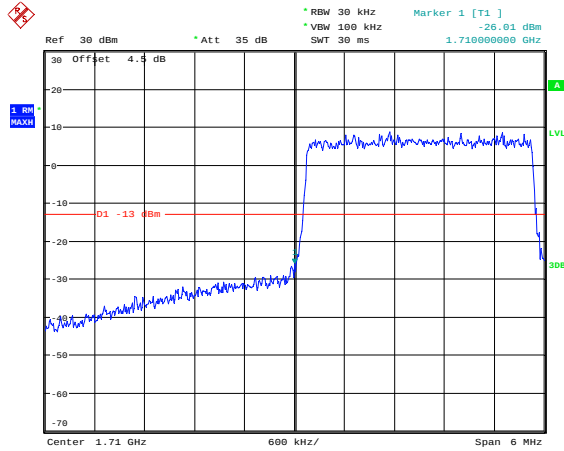
Date: 27.JAN.2021 17:57:32

1.4M, 16QAM, Right Band Edge



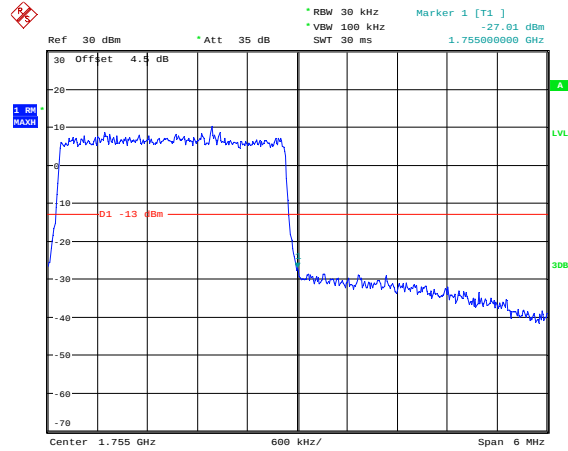
Date: 27.JAN.2021 17:58:12

3M, 16QAM, Left Band Edge



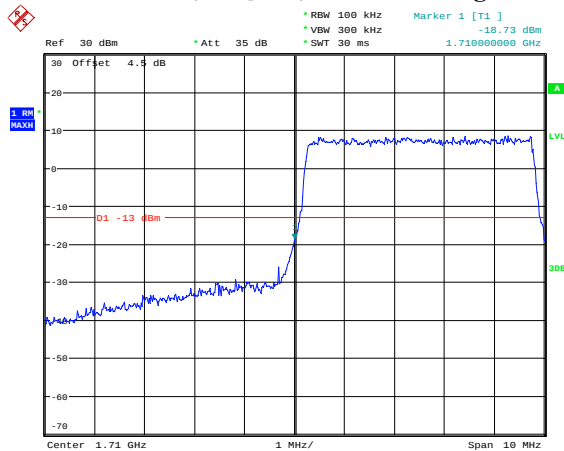
Date: 27.JAN.2021 17:58:49

3M, 16QAM, Right Band Edge



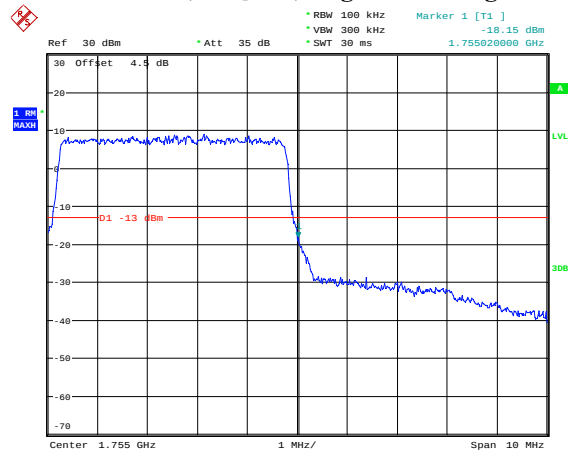
Date: 27.JAN.2021 17:59:25

5M, 16QAM, Left Band Edge



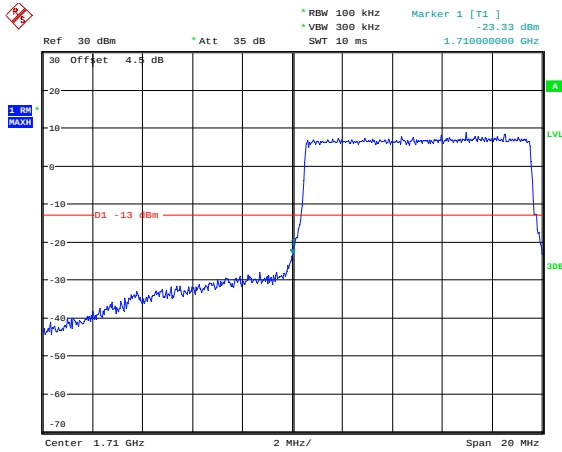
Date: 28.JAN.2021 13:24:38

5M, 16QAM, Right Band Edge



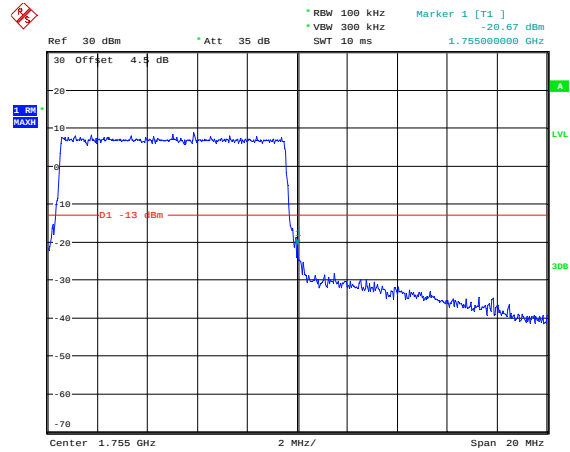
Date: 28.JAN.2021 13:25:51

10M, 16QAM, Left Band Edge



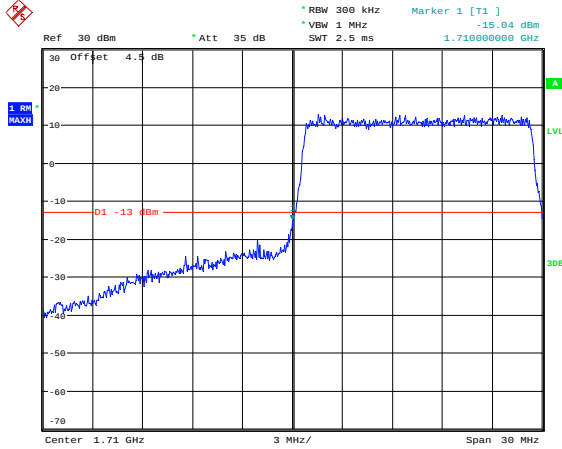
Date: 27.JAN.2021 18:01:35

10M, 16QAM, Right Band Edge



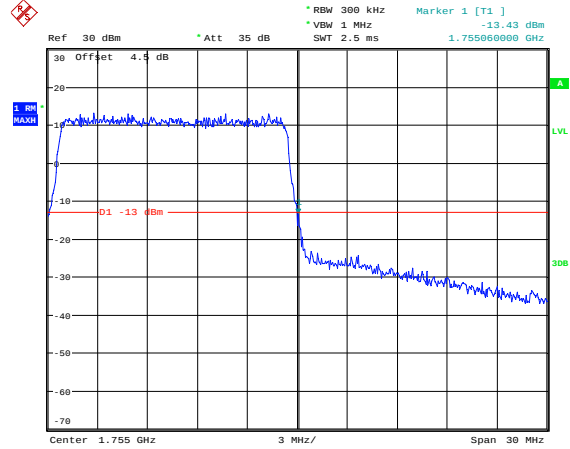
Date: 27.JAN.2021 18:02:14

15M, 16QAM, Left Band Edge



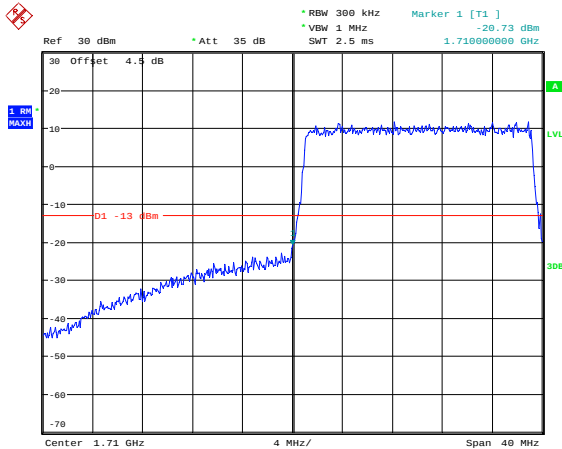
Date: 27.JAN.2021 18:03:04

15M, 16QAM, Right Band Edge



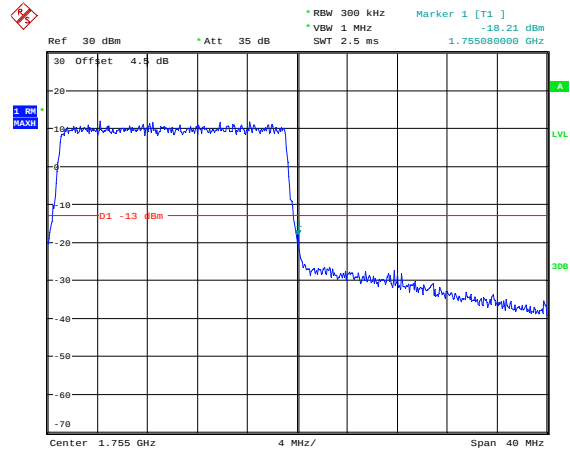
Date: 27.JAN.2021 18:03:44

20M, 16QAM, Left Band Edge

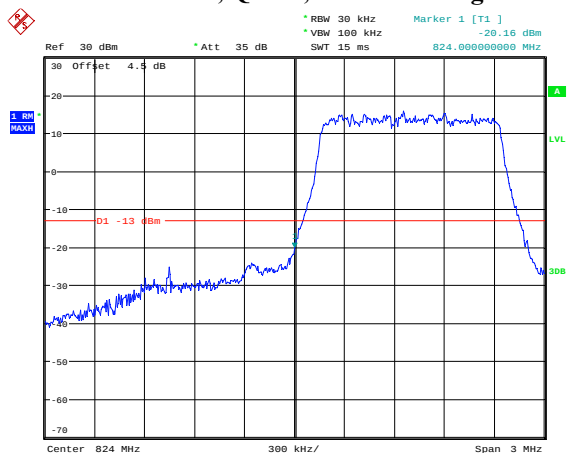


Date: 27.JAN.2021 18:04:30

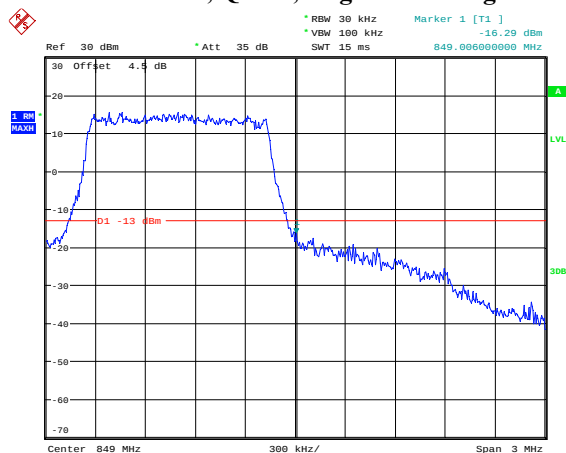
20M, 16QAM, Right Band Edge



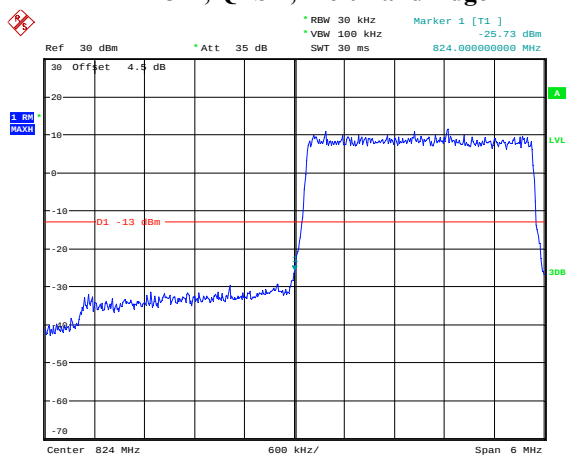
Date: 27.JAN.2021 18:05:18

LTE Band 5:**1.4M, QPSK, Left Band Edge**

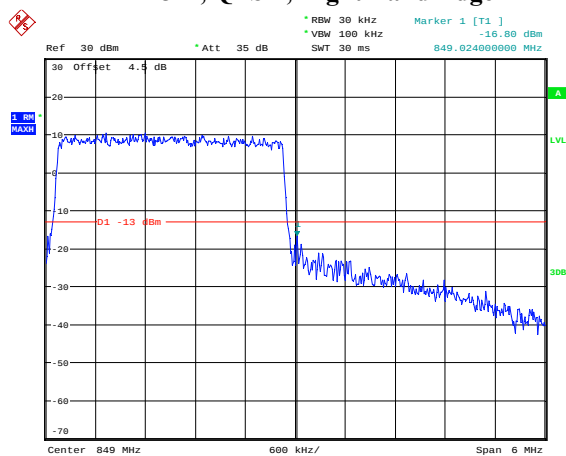
Date: 27.JAN.2021 18:05:42

1.4M, QPSK, Right Band Edge

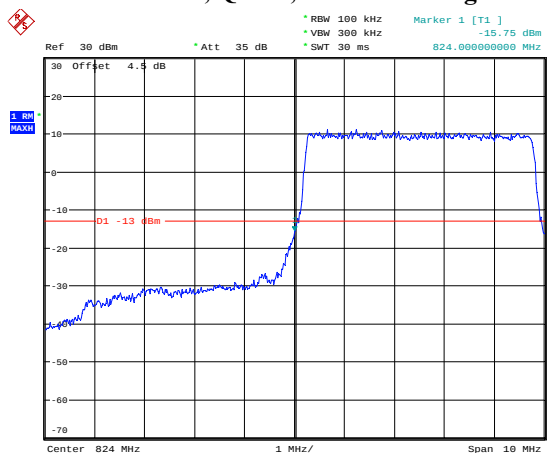
Date: 27.JAN.2021 18:06:26

3M, QPSK, Left Band Edge

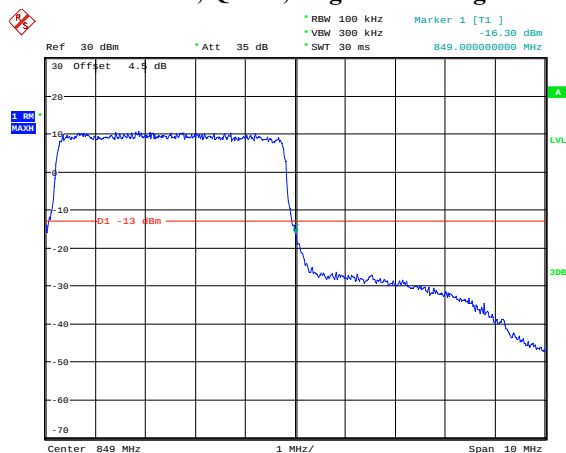
Date: 27.JAN.2021 18:07:04

3M, QPSK, Right Band Edge

Date: 27.JAN.2021 18:07:47

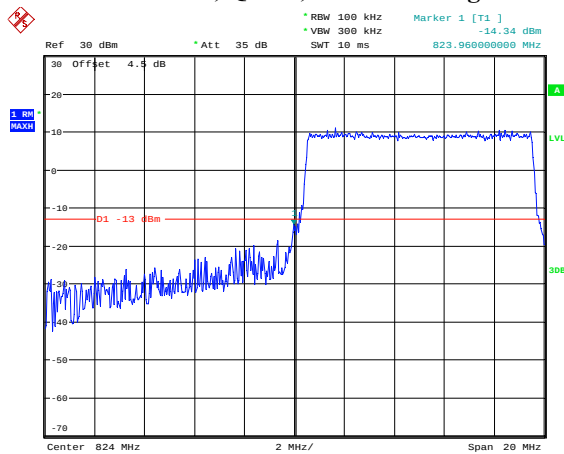
5M, QPSK, Left Band Edge

Date: 28.JAN.2021 13:28:40

5M, QPSK, Right Band Edge

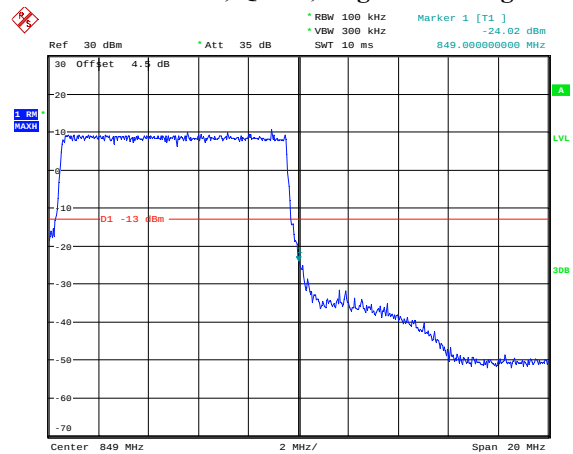
Date: 28.JAN.2021 13:29:48

10M, QPSK, Left Band Edge



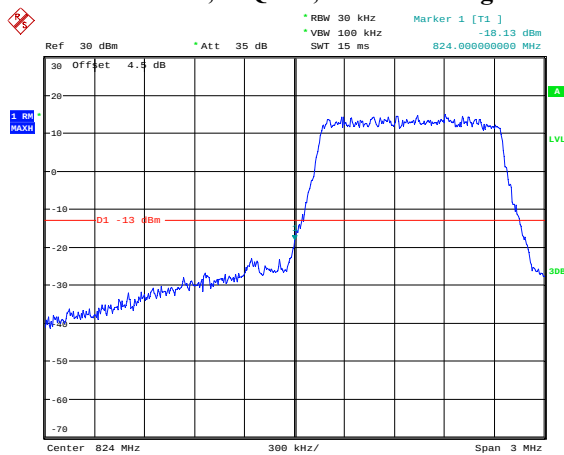
Date: 27.JAN.2021 18:10:27

10M, QPSK, Right Band Edge



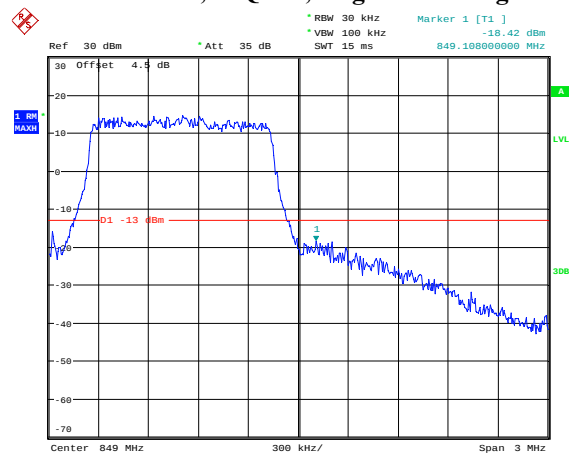
Date: 27.JAN.2021 18:11:11

1.4M, 16QAM, Left Band Edge



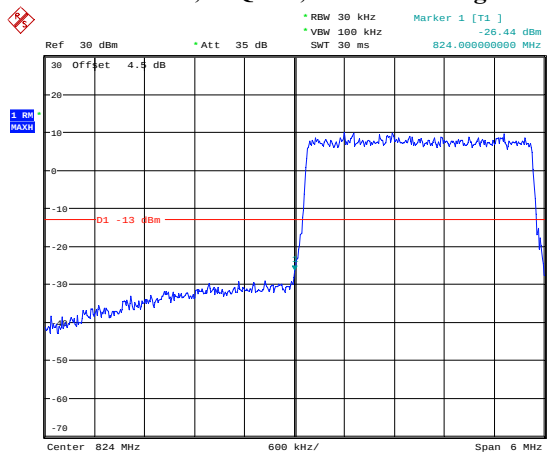
Date: 27.JAN.2021 18:06:04

1.4M, 16QAM, Right Band Edge



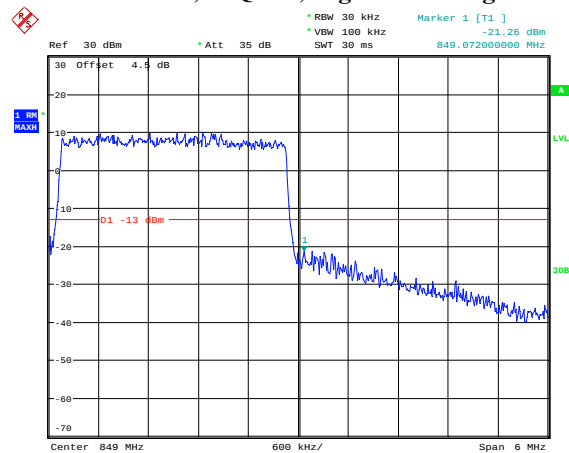
Date: 27.JAN.2021 18:06:43

3M, 16QAM, Left Band Edge



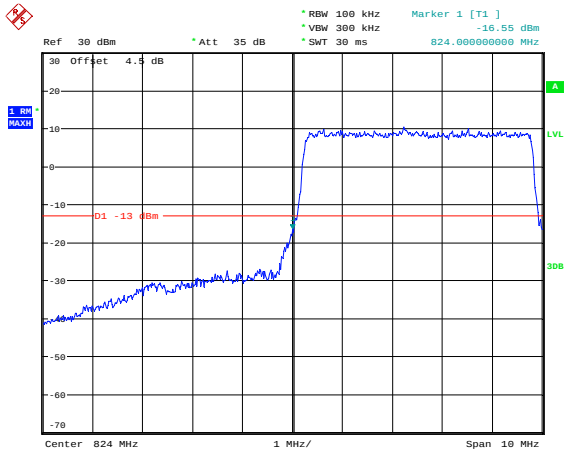
Date: 27.JAN.2021 18:07:25

3M, 16QAM, Right Band Edge



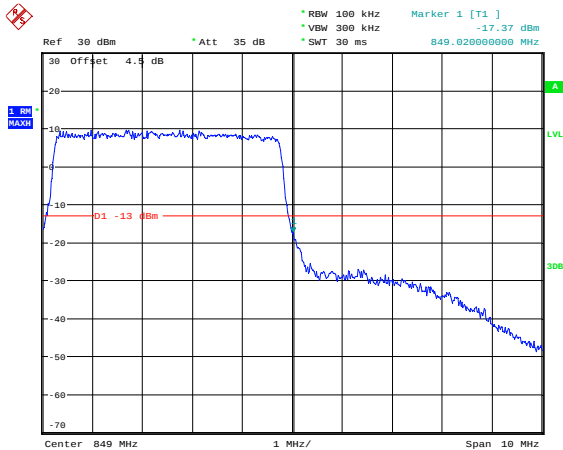
Date: 27.JAN.2021 18:08:11

5M, 16QAM, Left Band Edge



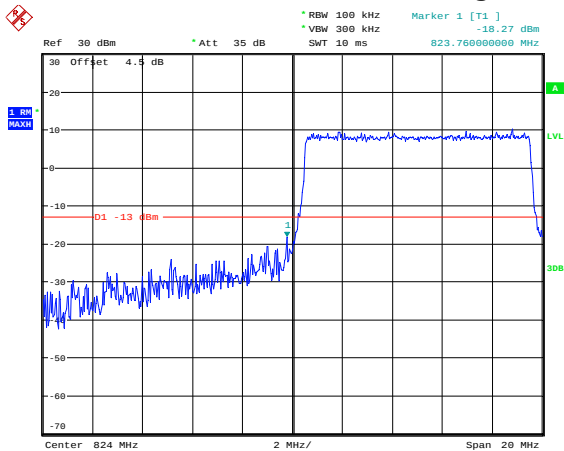
Date: 28.JAN.2021 13:29:15

5M, 16QAM, Right Band Edge



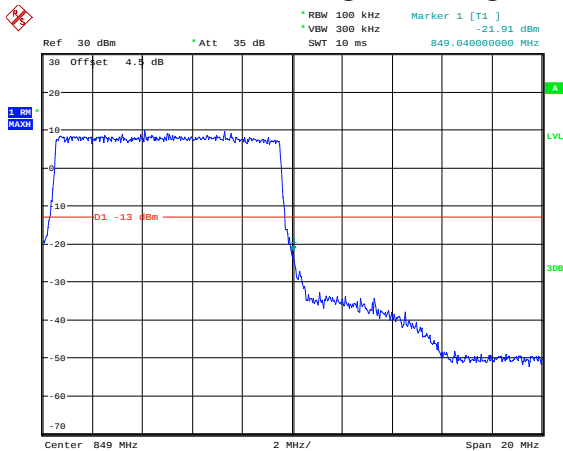
Date: 28.JAN.2021 13:30:23

10M, 16QAM, Left Band Edge

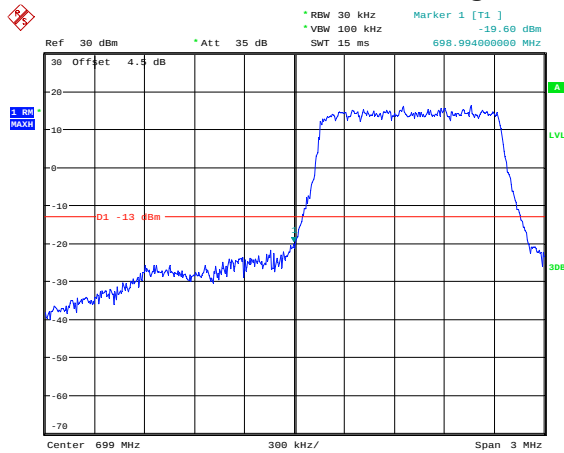


Date: 27.JAN.2021 18:10:52

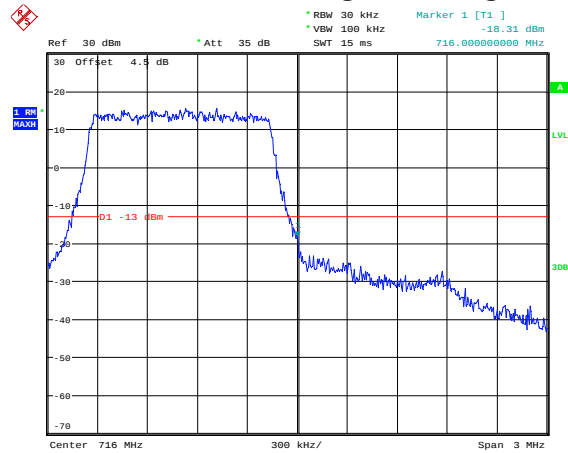
10M, 16QAM, Right Band Edge



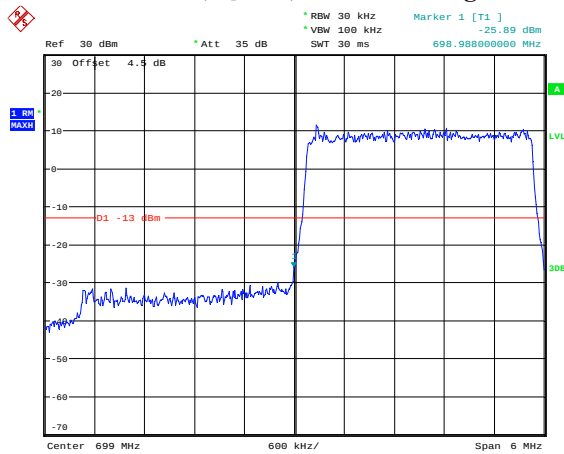
Date: 27.JAN.2021 18:11:32

LTE Band 12:**1.4M, QPSK, Left Band Edge**

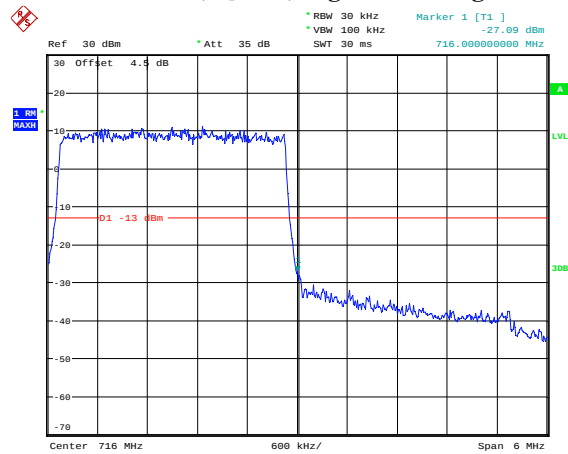
Date: 27.JAN.2021 18:12:00

1.4M, QPSK, Right Band Edge

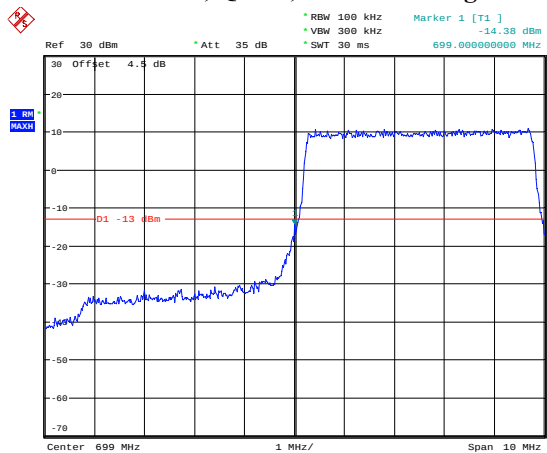
Date: 27.JAN.2021 18:12:39

3M, QPSK, Left Band Edge

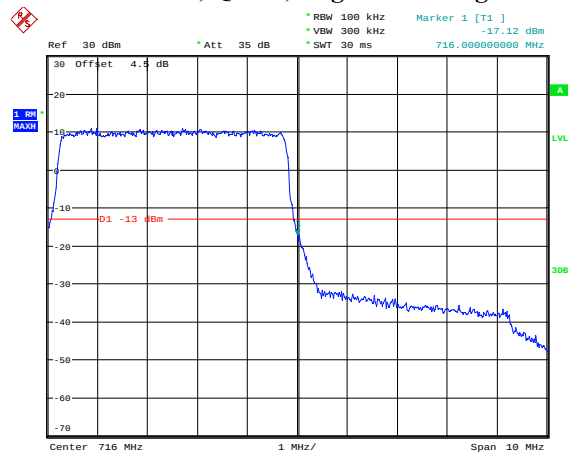
Date: 27.JAN.2021 18:13:25

3M, QPSK, Right Band Edge

Date: 27.JAN.2021 18:14:08

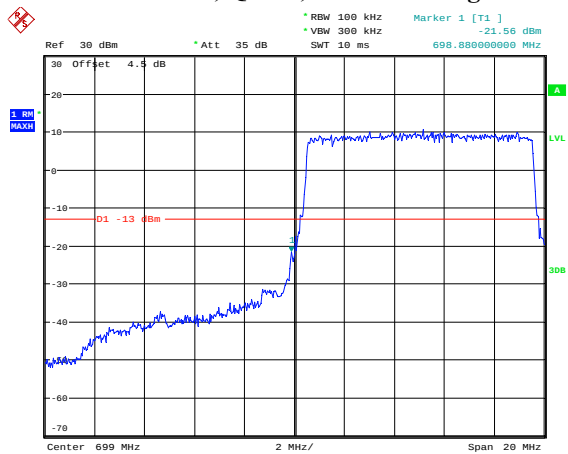
5M, QPSK, Left Band Edge

Date: 28.JAN.2021 13:31:51

5M, QPSK, Right Band Edge

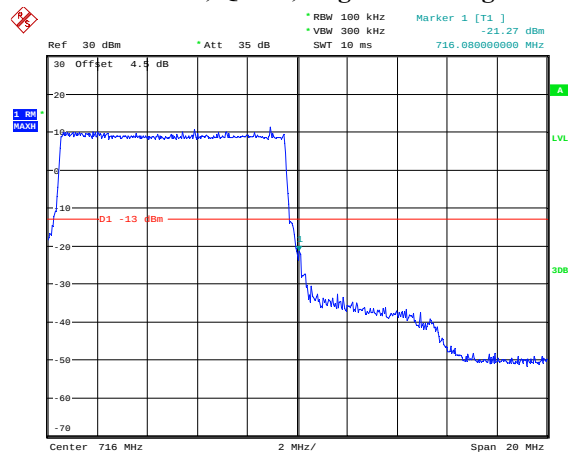
Date: 28.JAN.2021 13:33:01

10M, QPSK, Left Band Edge



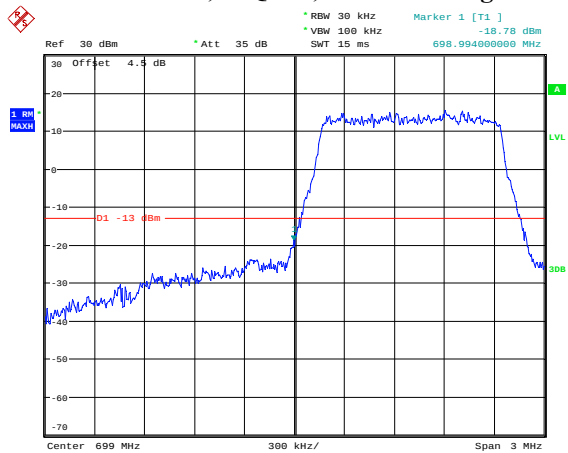
Date: 27.JAN.2021 18:16:12

10M, QPSK, Right Band Edge



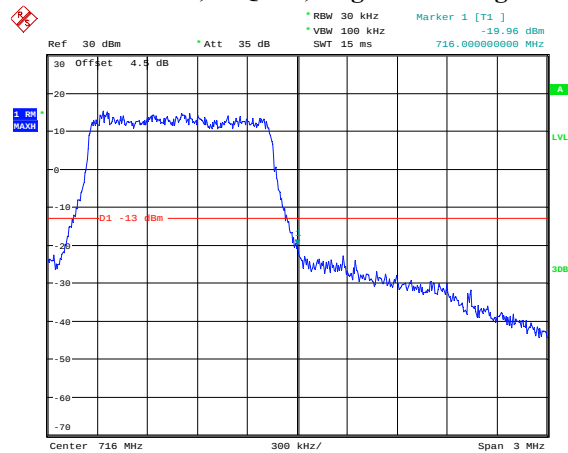
Date: 27.JAN.2021 18:16:55

1.4M, 16QAM, Left Band Edge



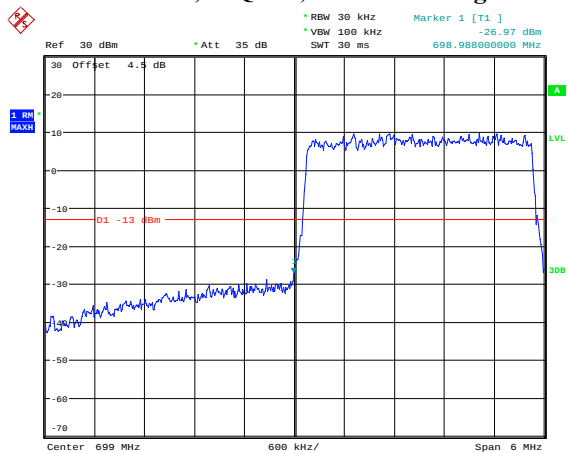
Date: 27.JAN.2021 18:12:21

1.4M, 16QAM, Right Band Edge



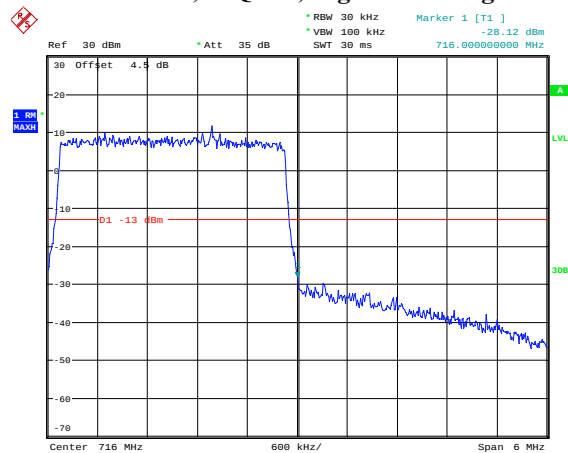
Date: 27.JAN.2021 18:13:01

3M, 16QAM, Left Band Edge



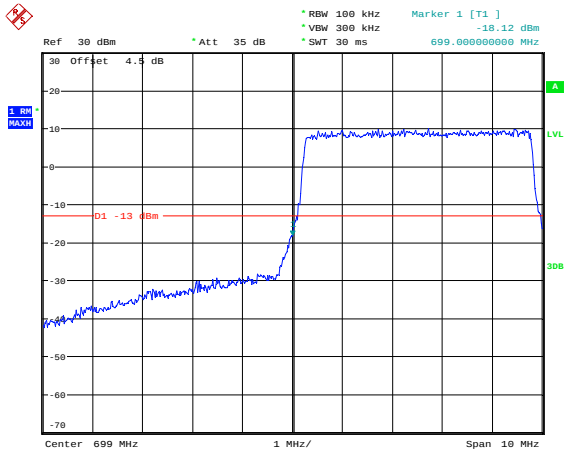
Date: 27.JAN.2021 18:13:46

3M, 16QAM, Right Band Edge



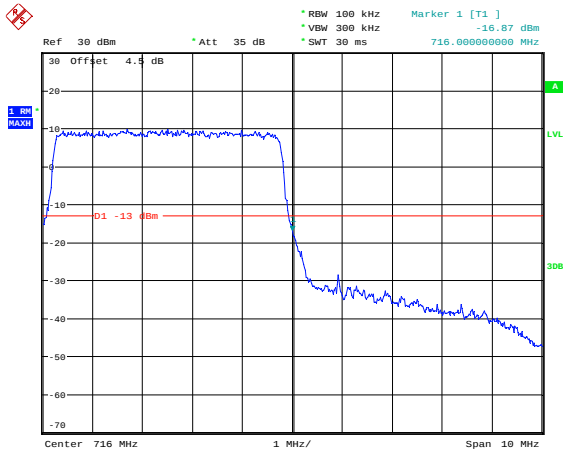
Date: 27.JAN.2021 18:14:25

5M, 16QAM, Left Band Edge



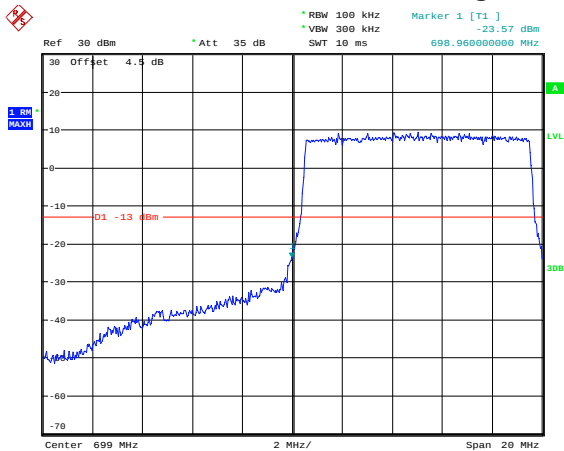
Date: 28.JAN.2021 13:32:25

5M, 16QAM, Right Band Edge



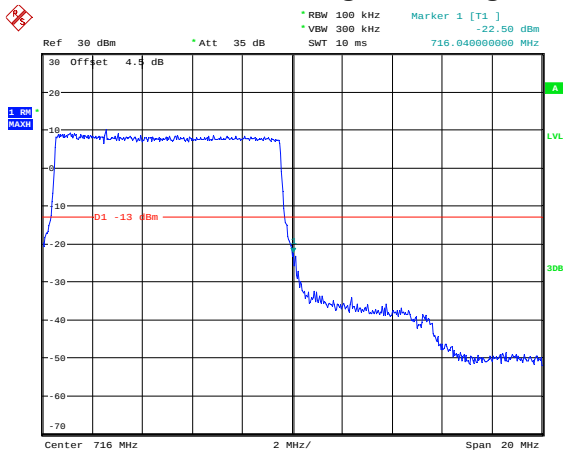
Date: 28.JAN.2021 13:33:35

10M, 16QAM, Left Band Edge



Date: 27.JAN.2021 18:16:33

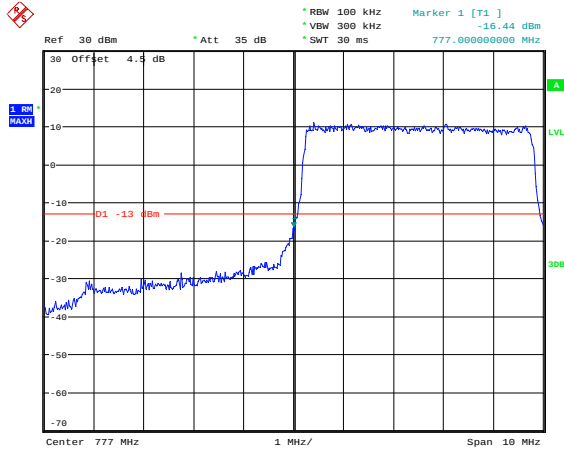
10M, 16QAM, Right Band Edge



Date: 27.JAN.2021 18:17:12

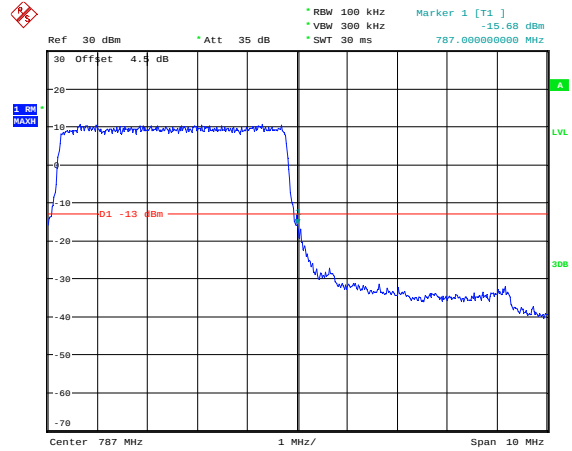
LTE Band 13:

5M, QPSK, Left Band Edge



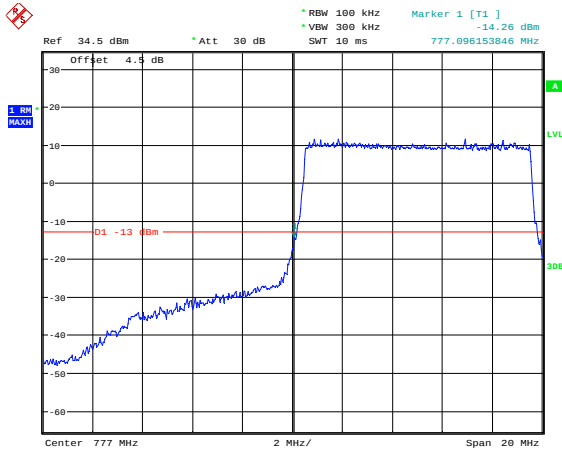
Date: 28.JAN.2021 13:34:55

5M, QPSK, Right Band Edge



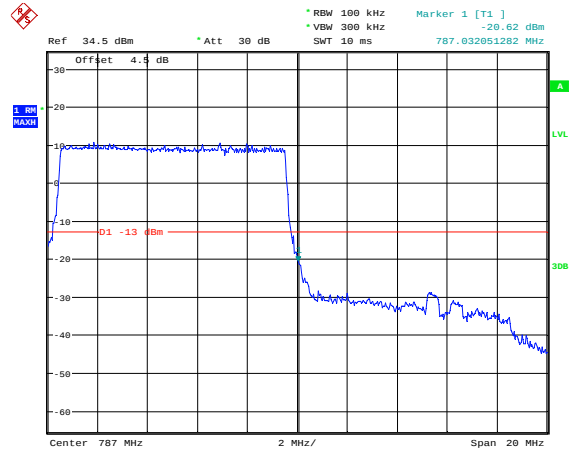
Date: 28.JAN.2021 13:36:05

10M, QPSK, Left Band Edge



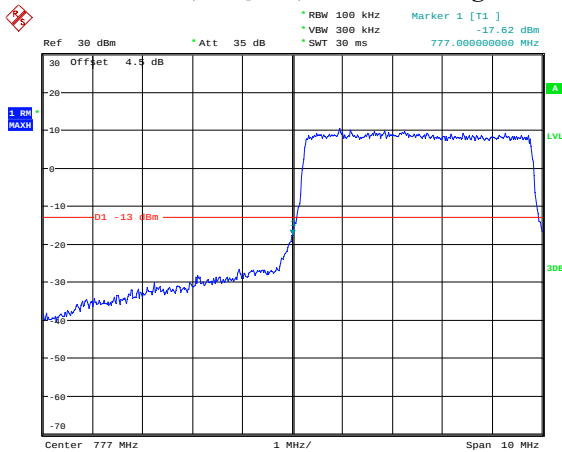
Date: 25.FEB.2021 13:36:02

10M, QPSK, Right Band Edge



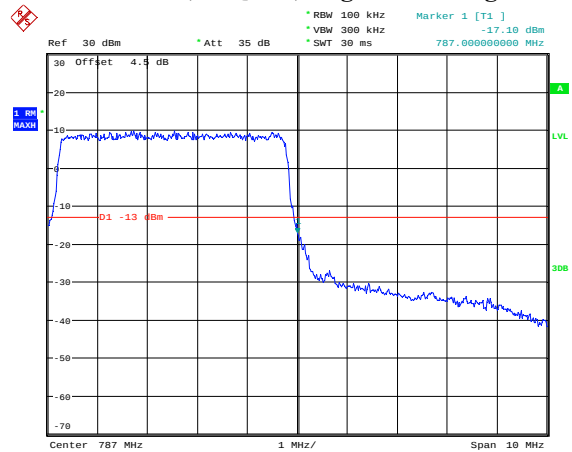
Date: 25.FEB.2021 13:39:44

5M, 16QAM, Left Band Edge

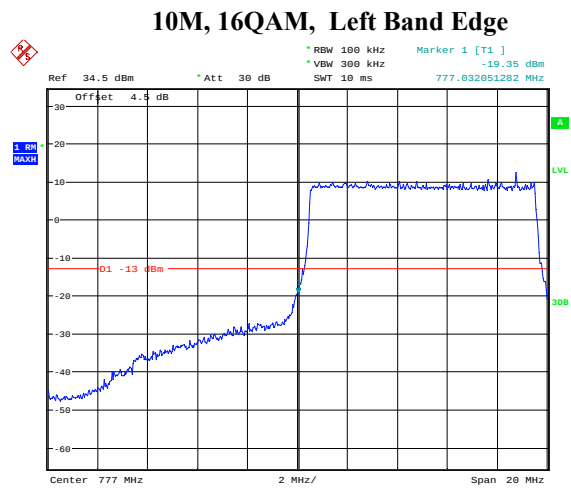


Date: 28.JAN.2021 13:35:33

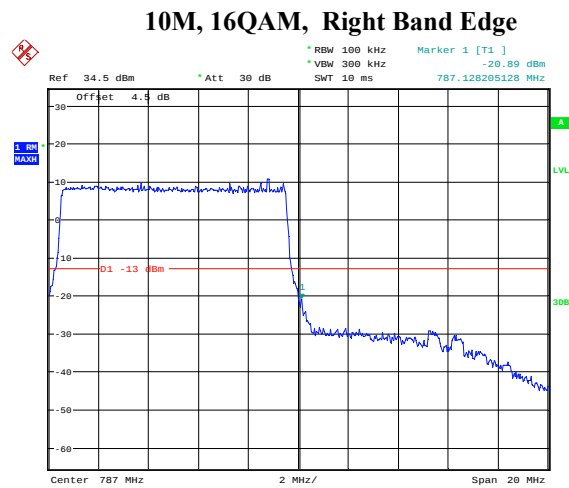
5M, 16QAM, Right Band Edge



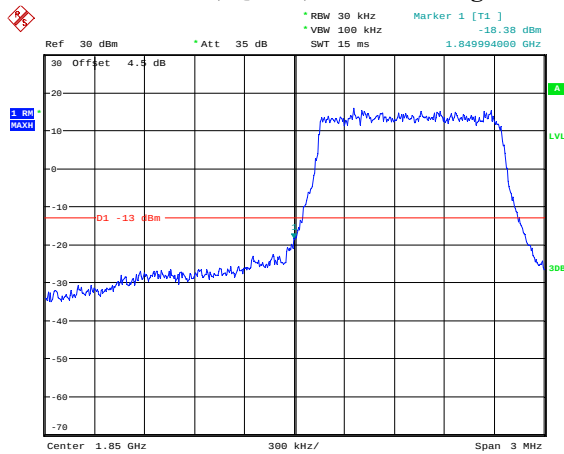
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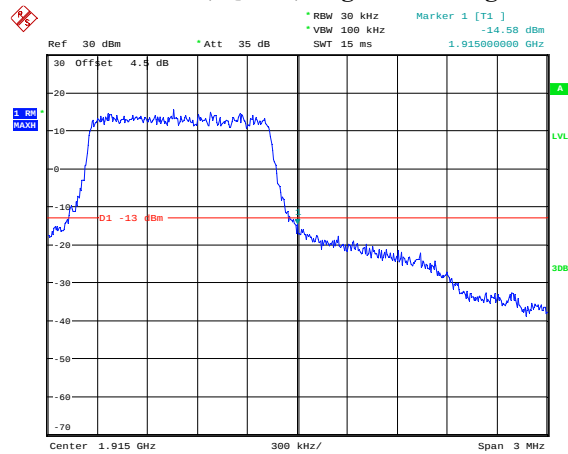
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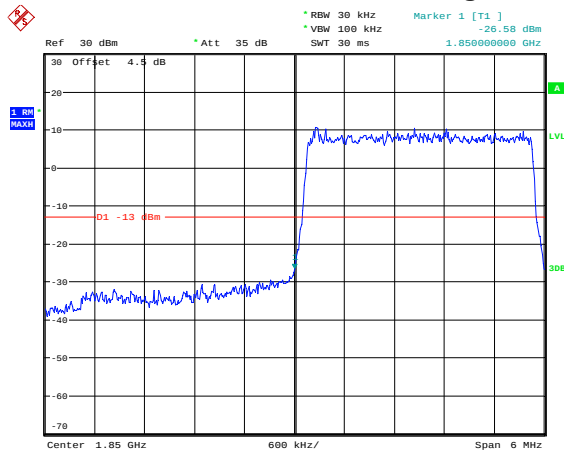
Date: 25.FEB.2021 13:39:01

LTE Band 25:**1.4M, QPSK, Left Band Edge**

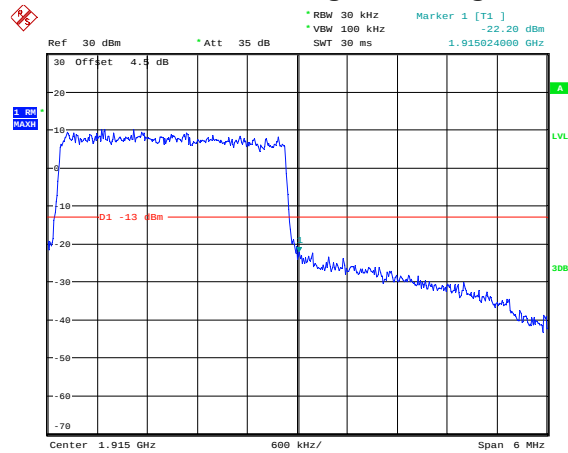
Date: 27.JAN.2021 19:15:59

1.4M, QPSK, Right Band Edge

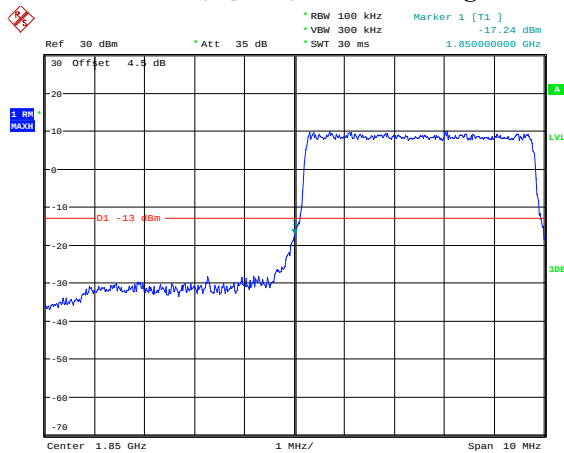
Date: 27.JAN.2021 19:16:52

3M, QPSK, Left Band Edge

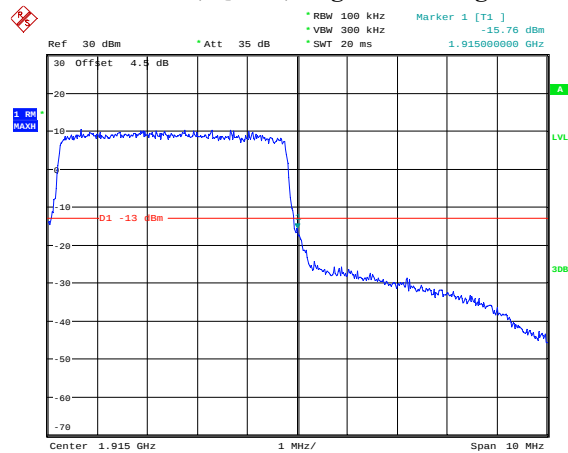
Date: 27.JAN.2021 19:17:41

3M, QPSK, Right Band Edge

Date: 27.JAN.2021 19:18:23

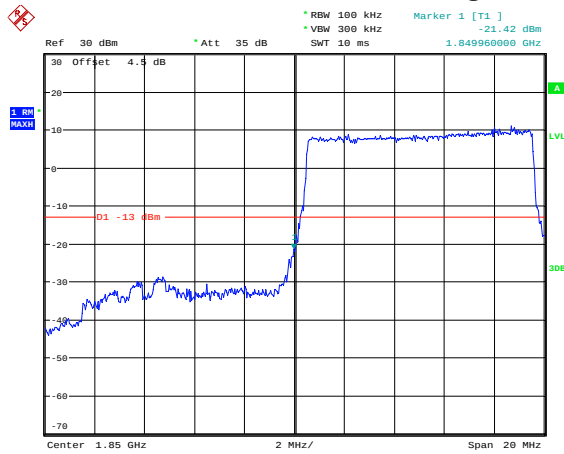
5M, QPSK, Left Band Edge

Date: 28.JAN.2021 13:38:00

5M, QPSK, Right Band Edge

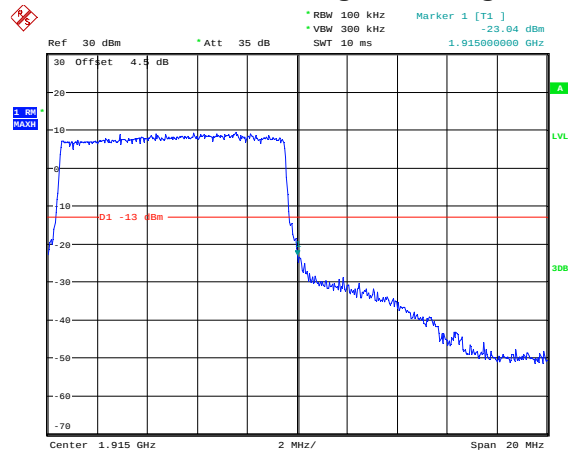
Date: 28.JAN.2021 13:39:13

10M, QPSK, Left Band Edge



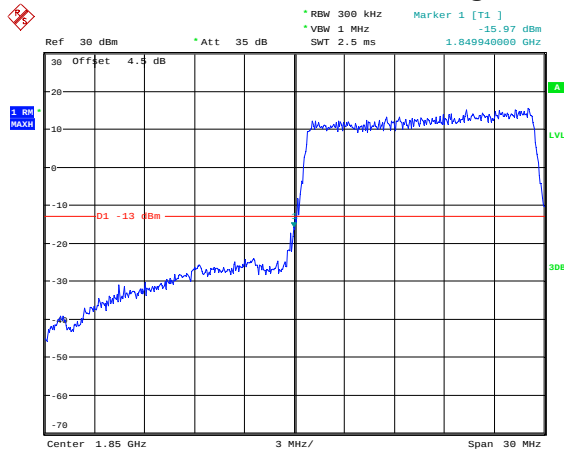
Date: 27.JAN.2021 19:20:37

10M, QPSK, Right Band Edge



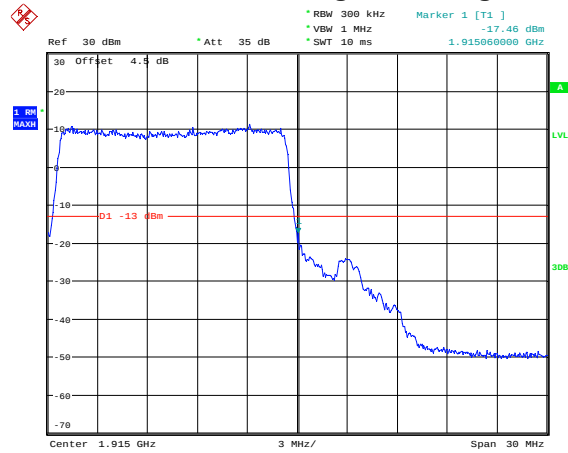
Date: 27.JAN.2021 19:21:16

15M, QPSK, Left Band Edge



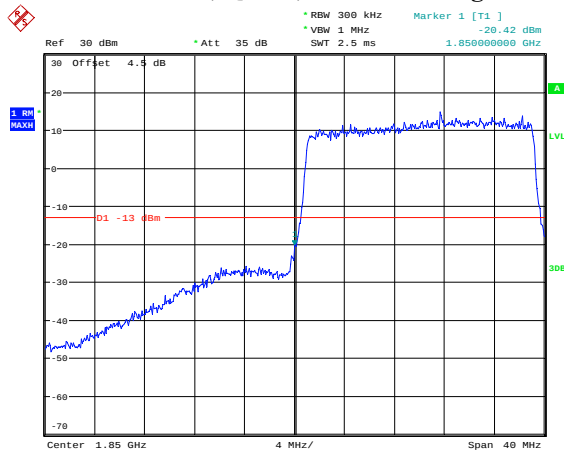
Date: 27.JAN.2021 19:22:01

15M, QPSK, Right Band Edge



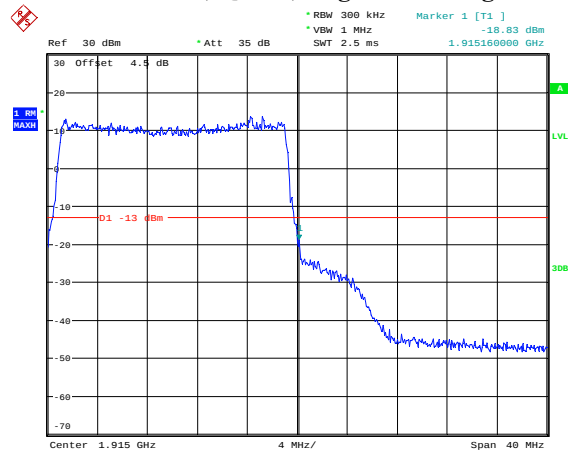
Date: 28.JAN.2021 13:41:25

20M, QPSK, Left Band Edge



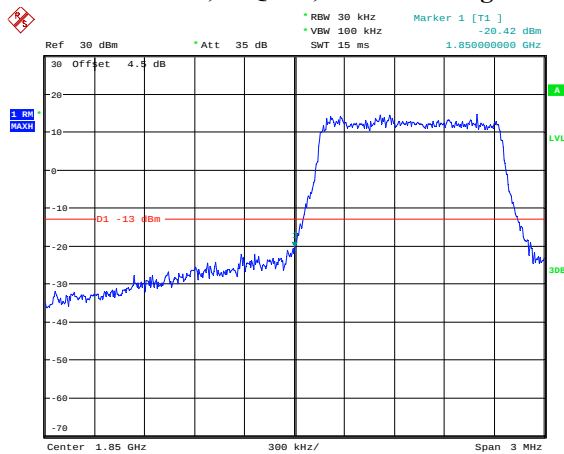
Date: 27.JAN.2021 19:23:47

20M, QPSK, Right Band Edge



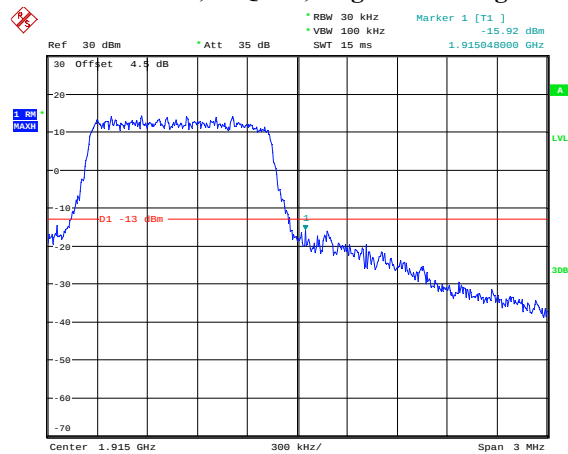
Date: 27.JAN.2021 19:24:38

1.4M, 16QAM, Left Band Edge



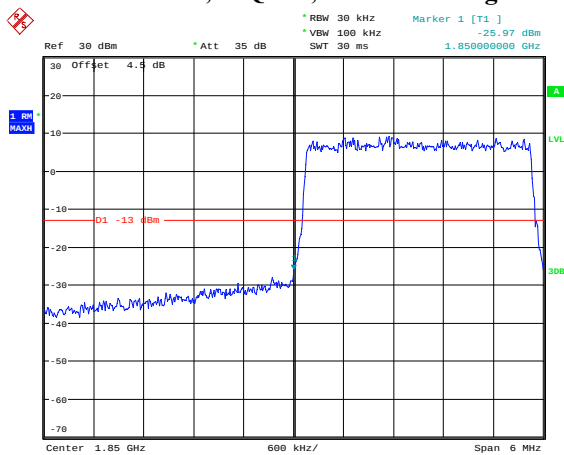
Date: 27.JAN.2021 19:16:28

1.4M, 16QAM, Right Band Edge



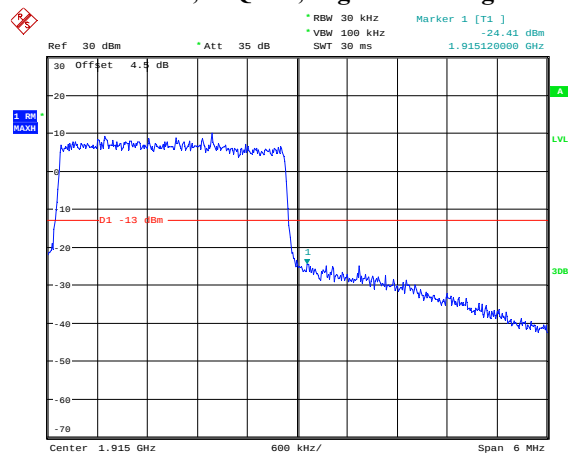
Date: 27.JAN.2021 19:17:18

3M, 16QAM, Left Band Edge



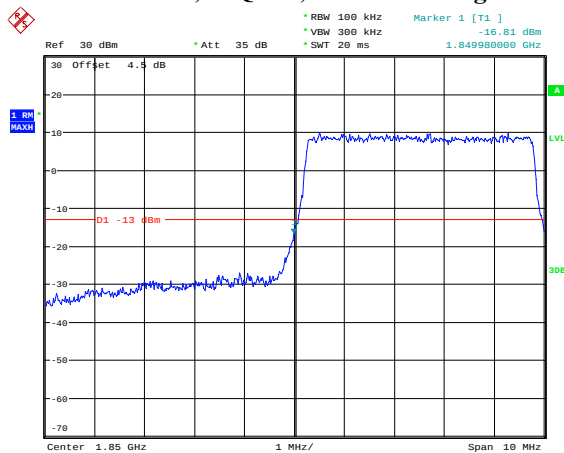
Date: 27.JAN.2021 19:18:00

3M, 16QAM, Right Band Edge



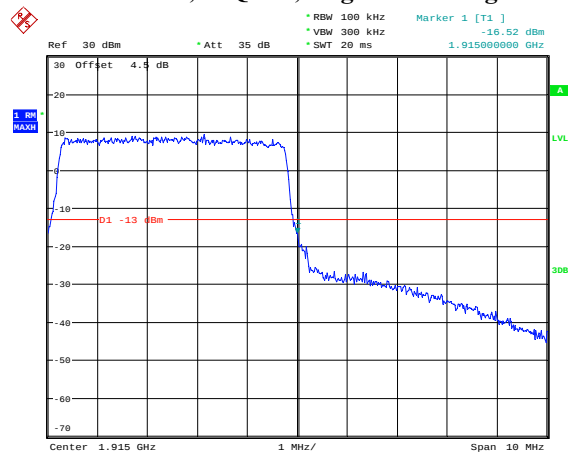
Date: 27.JAN.2021 19:18:45

5M, 16QAM, Left Band Edge



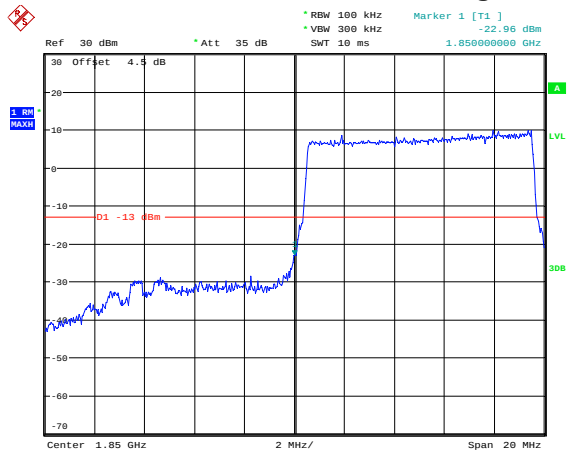
Date: 28.JAN.2021 13:38:33

5M, 16QAM, Right Band Edge



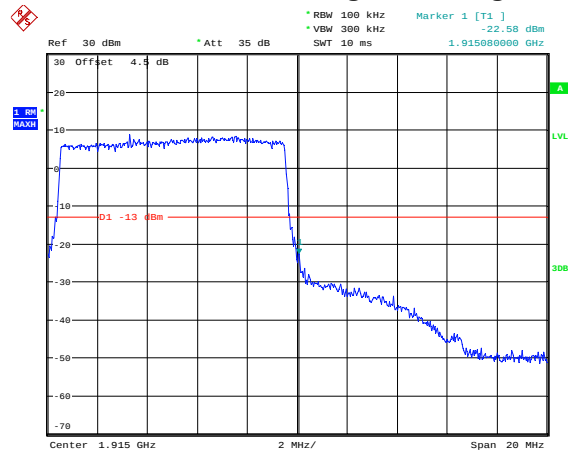
Date: 28.JAN.2021 13:39:52

10M, 16QAM, Left Band Edge



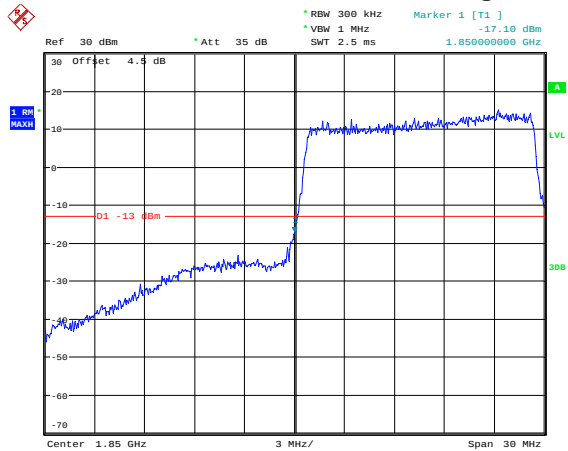
Date: 27.JAN.2021 19:20:56

10M, 16QAM, Right Band Edge



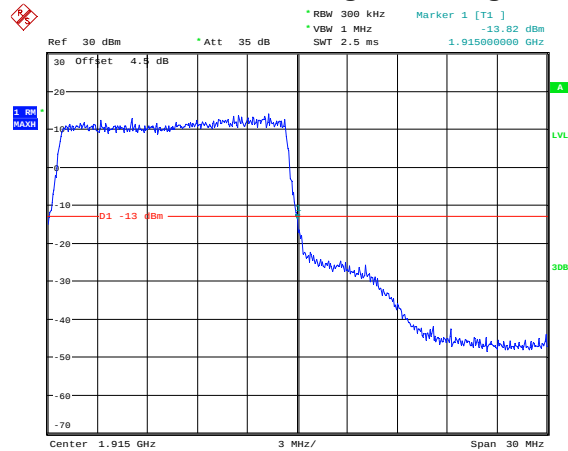
Date: 27.JAN.2021 19:21:34

15M, 16QAM, Left Band Edge



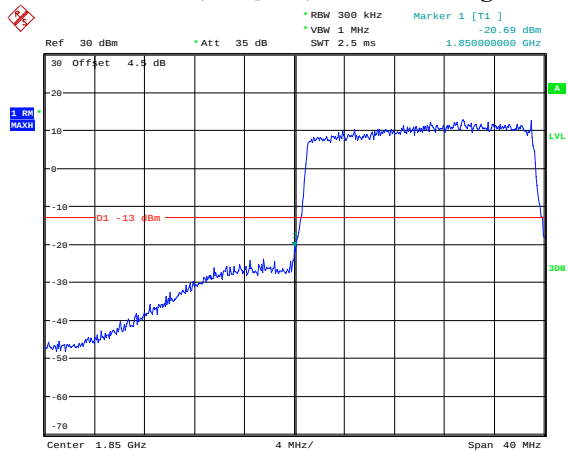
Date: 27.JAN.2021 19:22:27

15M, 16QAM, Right Band Edge



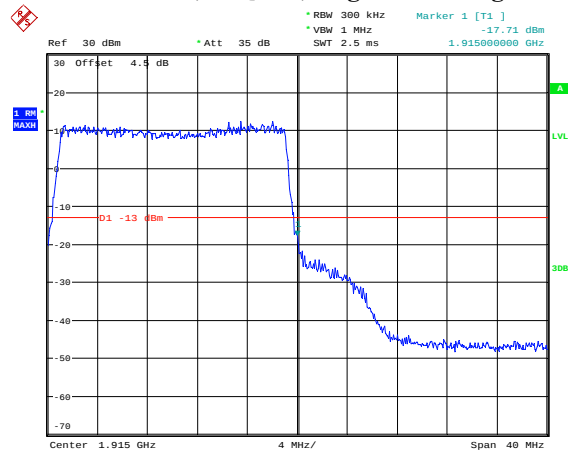
Date: 27.JAN.2021 19:23:16

20M, 16QAM, Left Band Edge



Date: 27.JAN.2021 19:24:14

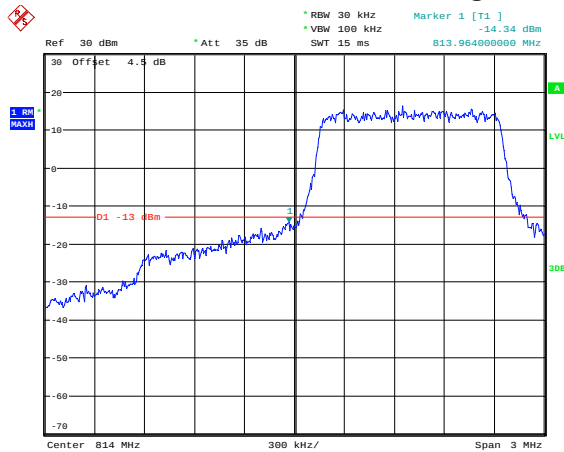
20M, 16QAM, Right Band Edge



Date: 27.JAN.2021 19:25:05

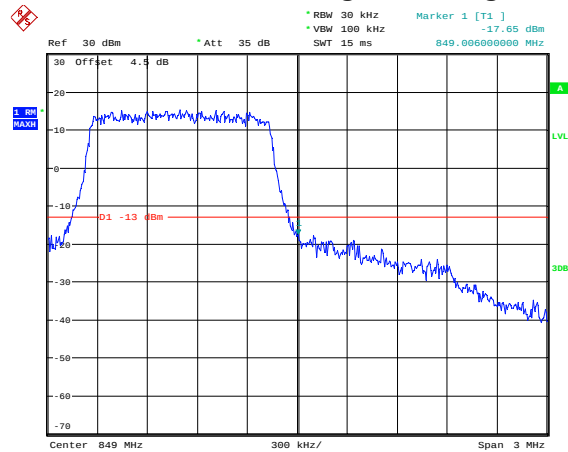
LTE Band 26:

1.4M, QPSK, Left Band Edge



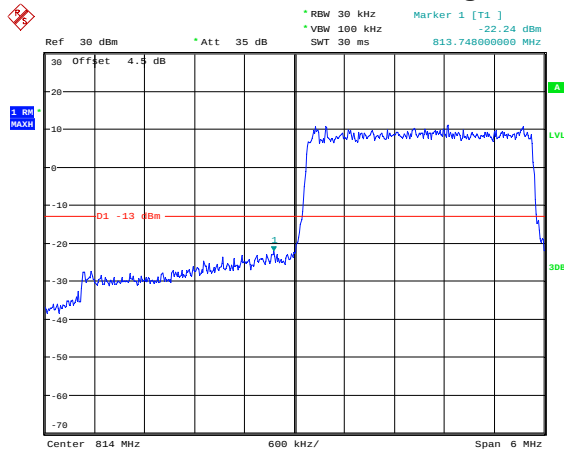
Date: 27.JAN.2021 19:25:28

1.4M, QPSK, Right Band Edge



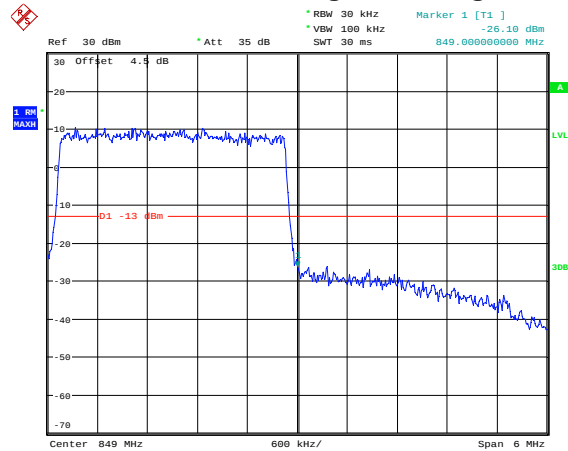
Date: 27.JAN.2021 19:26:19

3M, QPSK, Left Band Edge



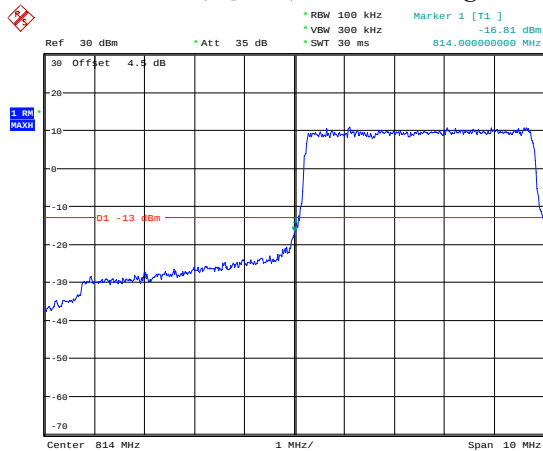
Date: 27.JAN.2021 19:26:56

3M, QPSK, Right Band Edge



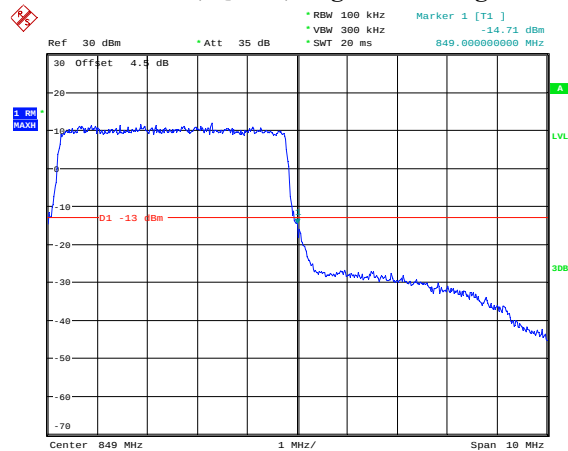
Date: 27.JAN.2021 19:27:34

5M, QPSK, Left Band Edge



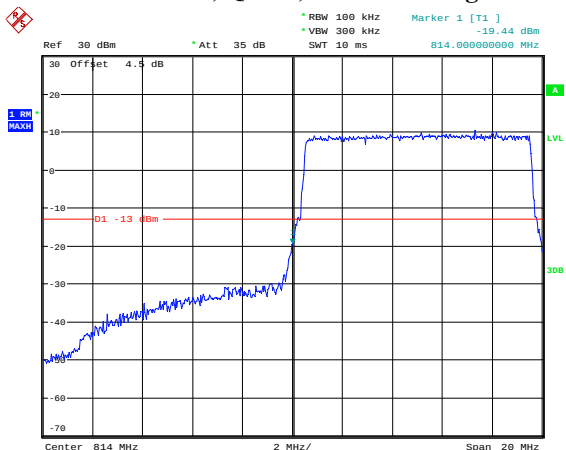
Date: 28.JAN.2021 13:43:43

5M, QPSK, Right Band Edge



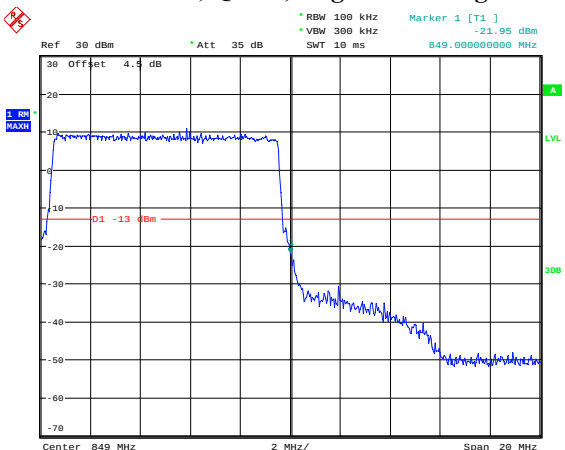
Date: 28.JAN.2021 13:44:53

10M, QPSK, Left Band Edge



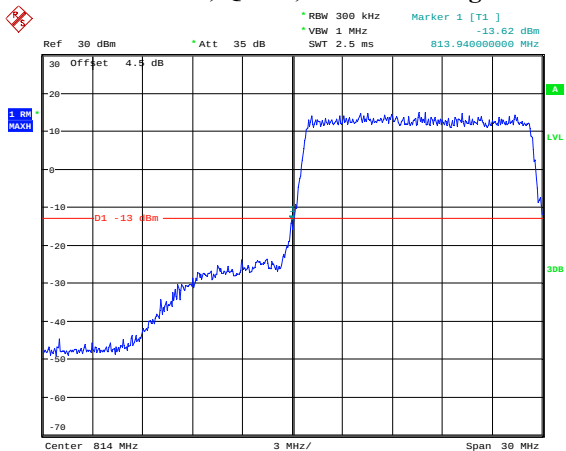
Date: 27.JAN.2021 19:29:48

10M, QPSK, Right Band Edge



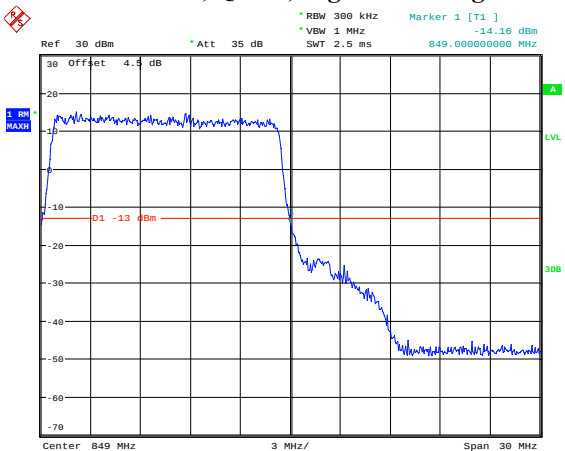
Date: 27.JAN.2021 19:30:30

15M, QPSK, Left Band Edge



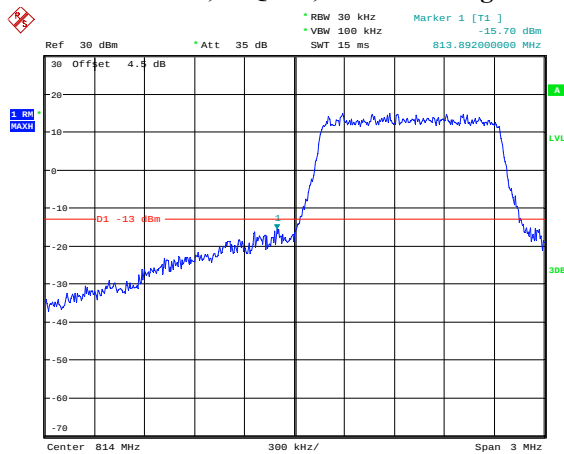
Date: 27.JAN.2021 19:31:18

15M, QPSK, Right Band Edge



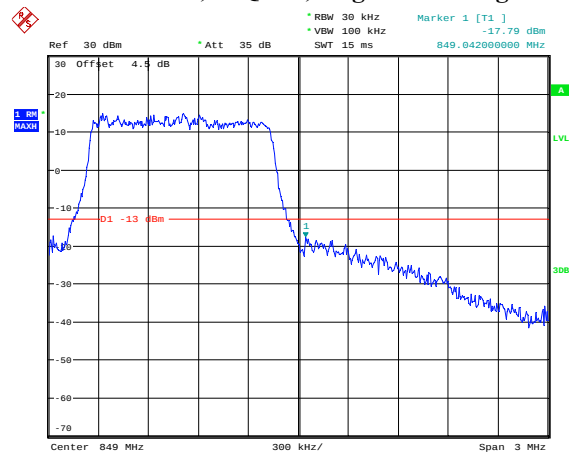
Date: 27.JAN.2021 19:32:07

1.4M, 16QAM, Left Band Edge



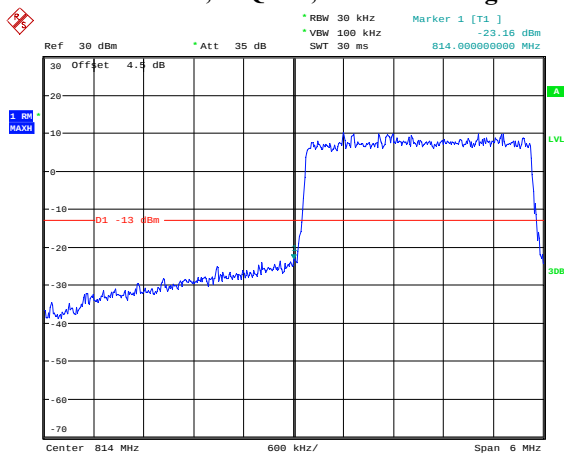
Date: 27.JAN.2021 19:25:50

1.4M, 16QAM, Right Band Edge



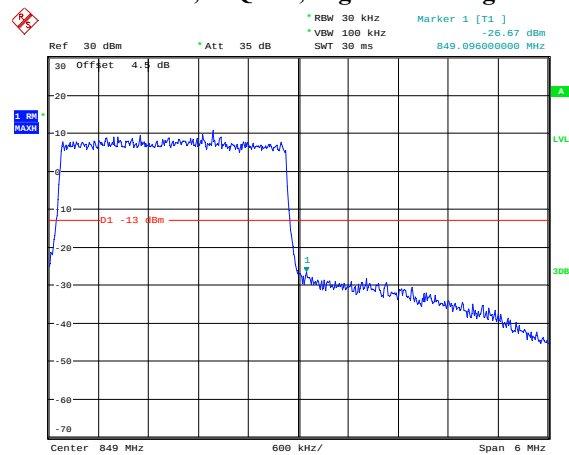
Date: 27.JAN.2021 19:26:33

3M, 16QAM, Left Band Edge



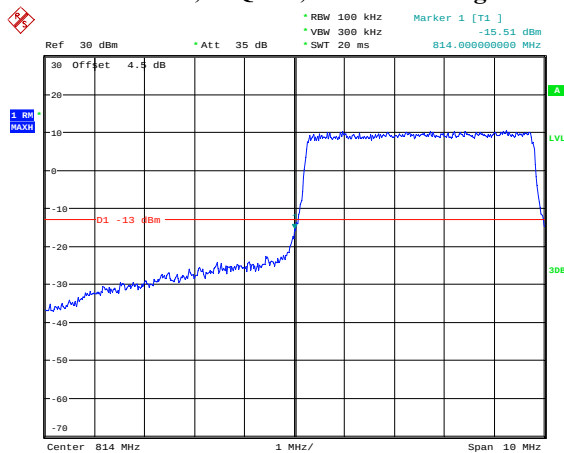
Date: 27.JAN.2021 19:27:14

3M, 16QAM, Right Band Edge



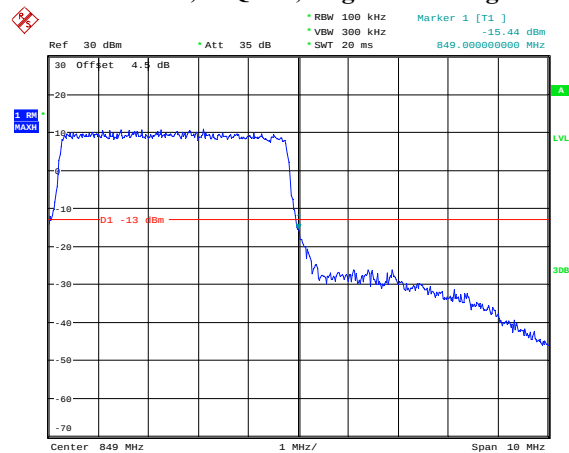
Date: 27.JAN.2021 19:27:53

5M, 16QAM, Left Band Edge

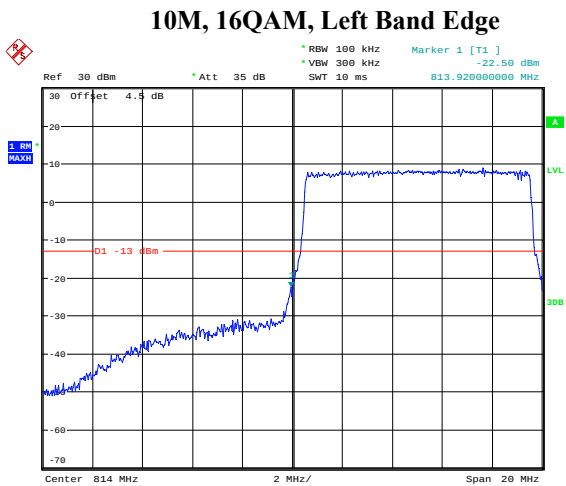


Date: 28.JAN.2021 13:44:17

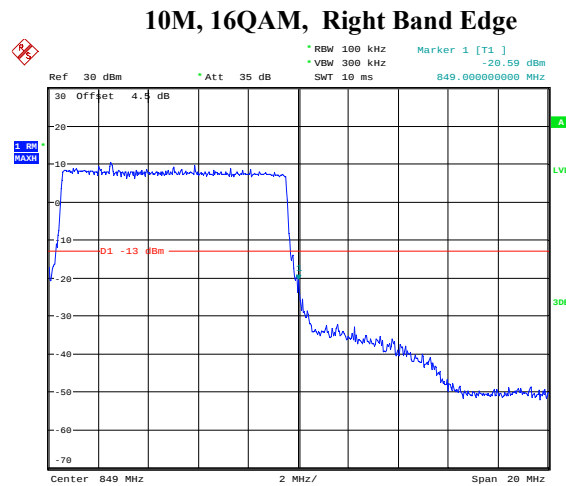
5M, 16QAM, Right Band Edge



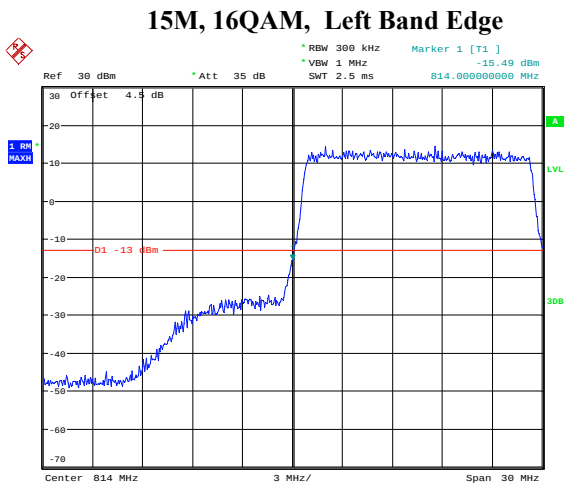
Date: 28.JAN.2021 13:45:35



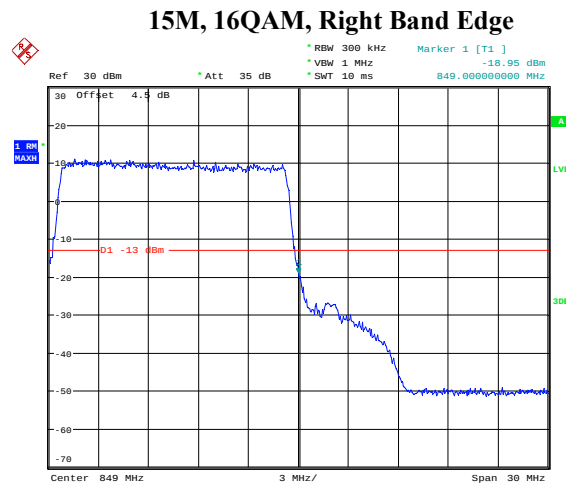
Date: 27.JAN.2021 19:30:07



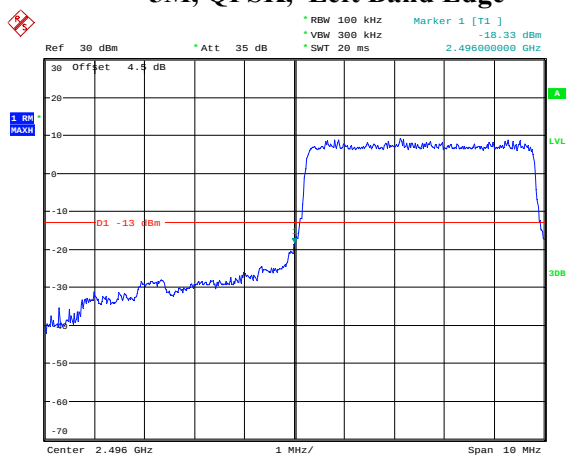
Date: 27.JAN.2021 19:30:52



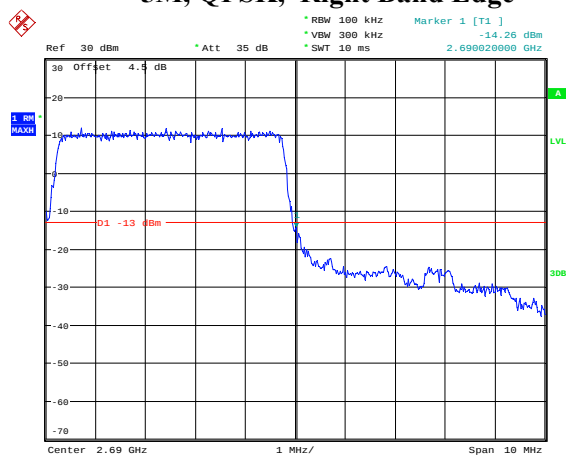
Date: 27.JAN.2021 19:31:44



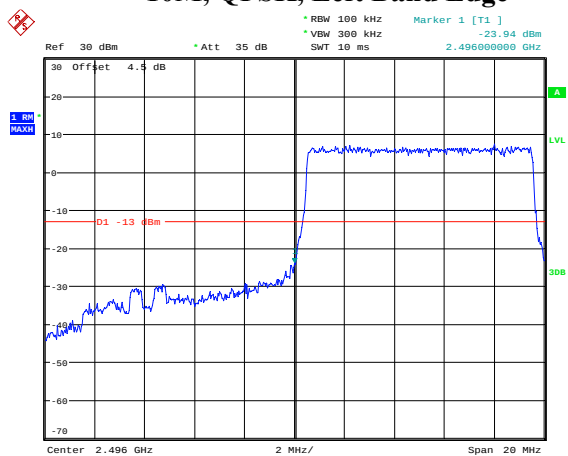
Date: 28.JAN.2021 13:47:25

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

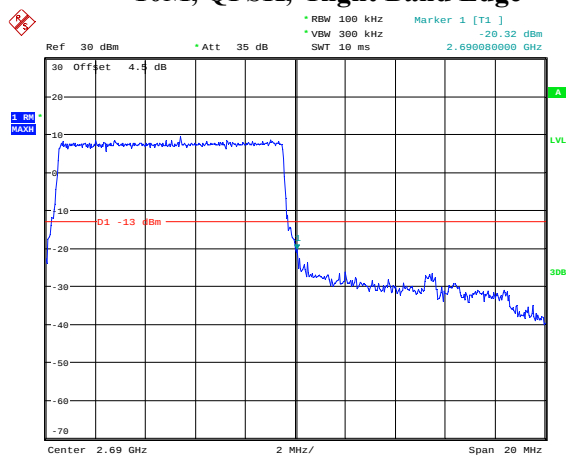
Date: 28.JAN.2021 13:48:15

5M, QPSK, Right Band Edge

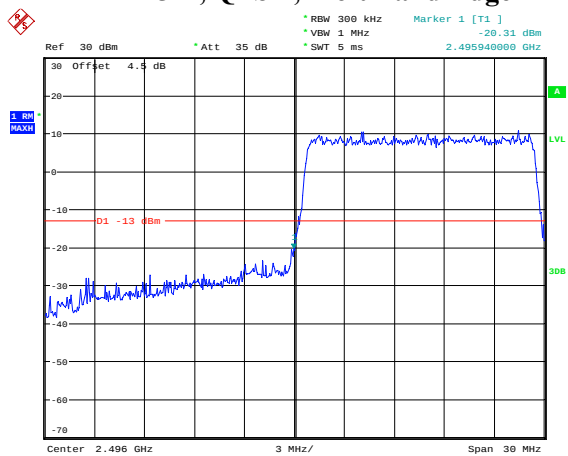
Date: 28.JAN.2021 13:50:02

10M, QPSK, Left Band Edge

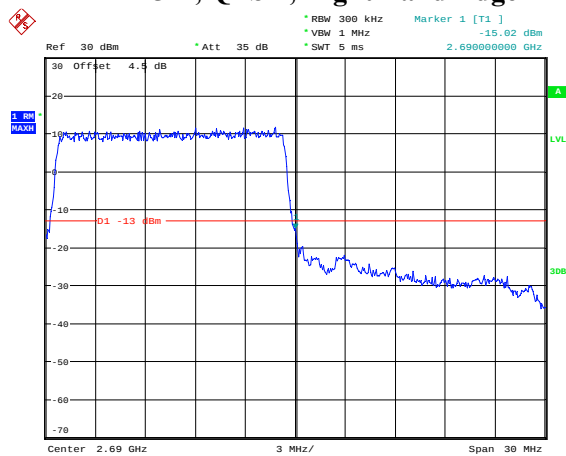
Date: 28.JAN.2021 13:51:09

10M, QPSK, Right Band Edge

Date: 28.JAN.2021 13:52:10

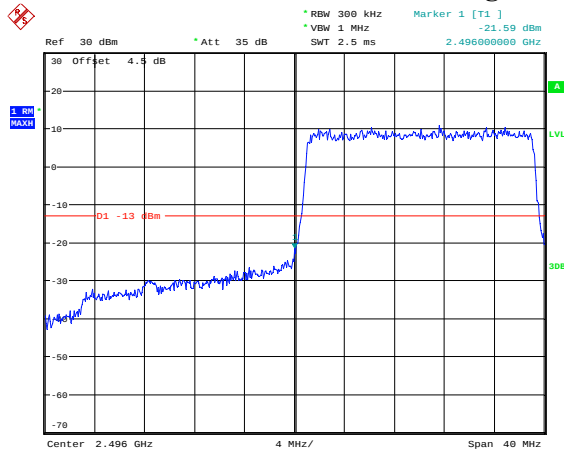
15M, QPSK, Left Band Edge

Date: 28.JAN.2021 13:53:25

15M, QPSK, Right Band Edge

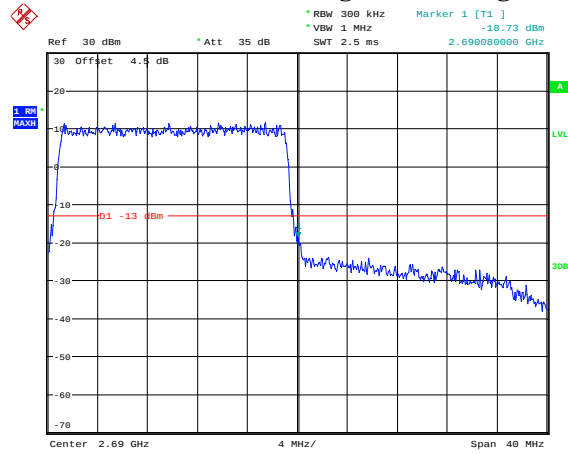
Date: 28.JAN.2021 13:56:01

20M, QPSK, Left Band Edge



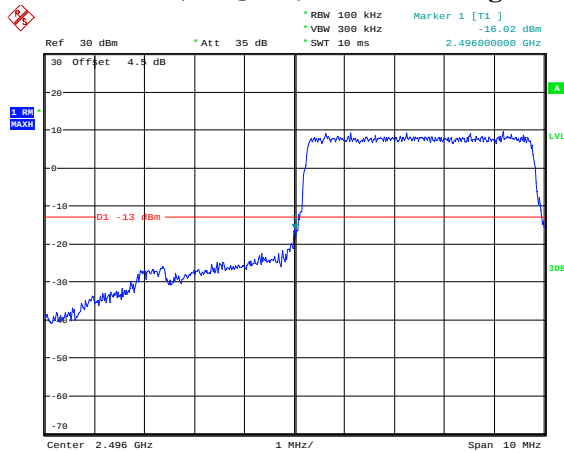
Date: 28.JAN.2021 13:59:26

20M, QPSK, Right Band Edge



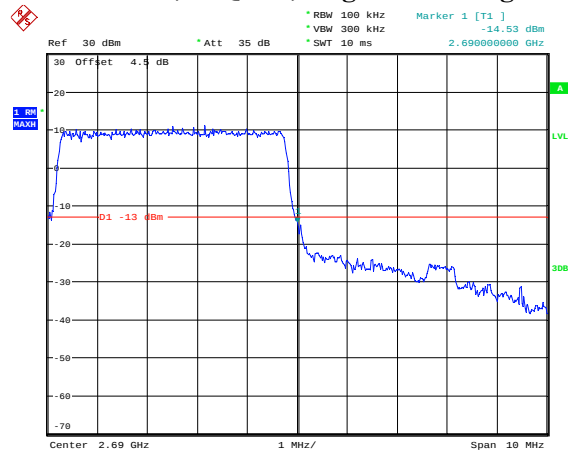
Date: 28.JAN.2021 14:00:12

5M, 16QAM, Left Band Edge



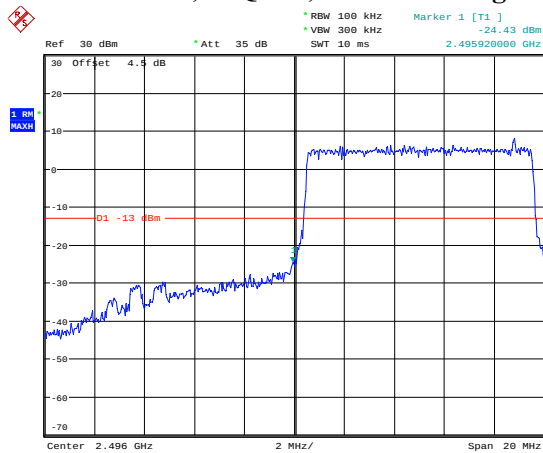
Date: 28.JAN.2021 13:48:51

5M, 16QAM, Right Band Edge



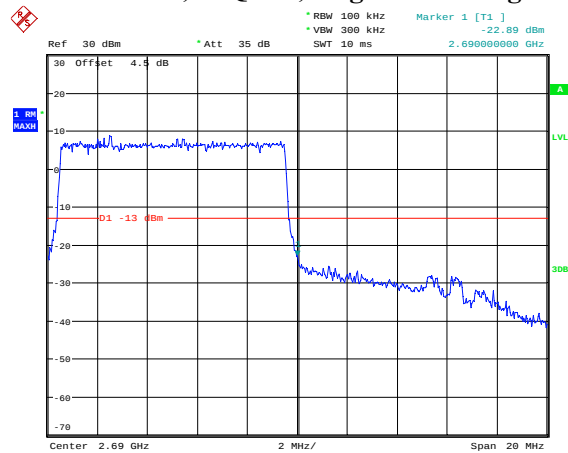
Date: 28.JAN.2021 13:50:41

10M, 16QAM, Left Band Edge



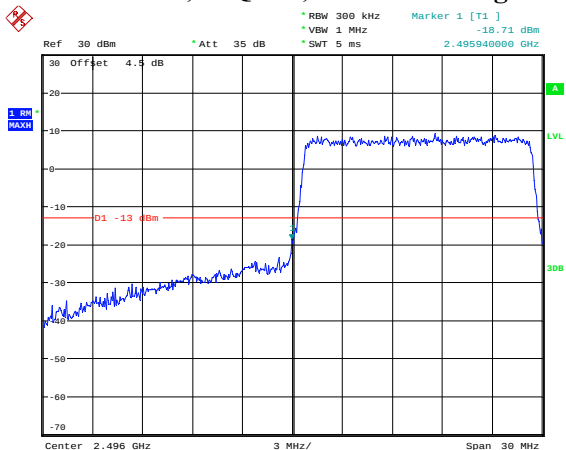
Date: 28.JAN.2021 13:51:31

10M, 16QAM, Right Band Edge



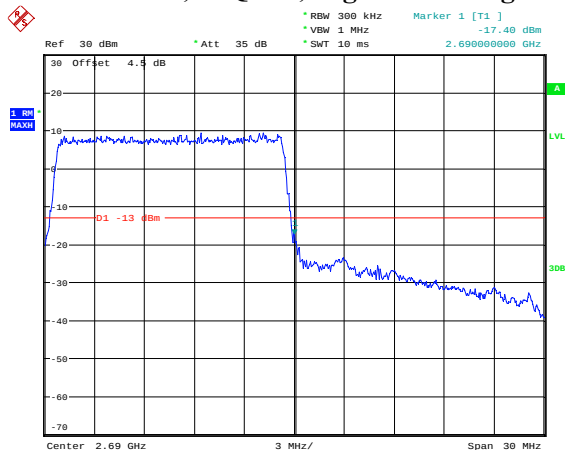
Date: 28.JAN.2021 13:52:33

15M, 16QAM, Left Band Edge



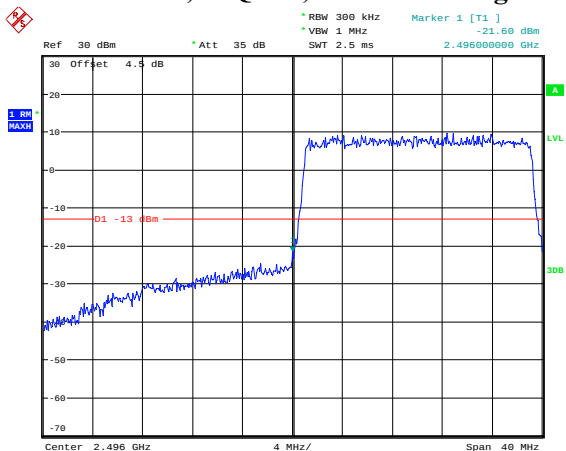
Date: 28.JAN.2021 13:54:07

15M, 16QAM, Right Band Edge



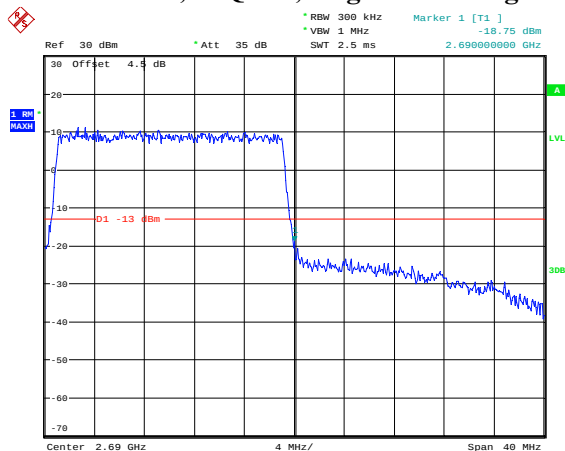
Date: 28.JAN.2021 13:58:57

20M, 16QAM, Left Band Edge



Date: 28.JAN.2021 13:59:50

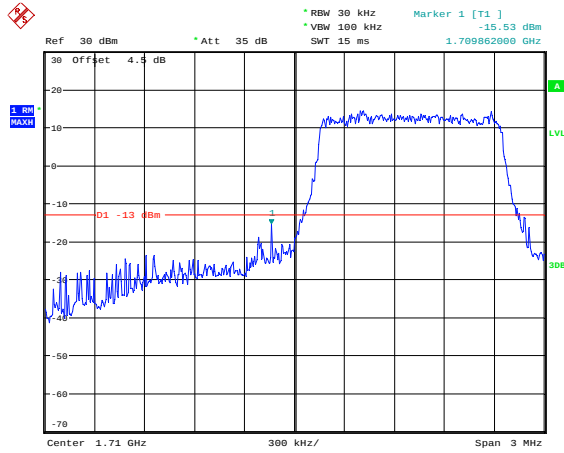
20M, 16QAM, Right Band Edge



Date: 28.JAN.2021 14:00:36

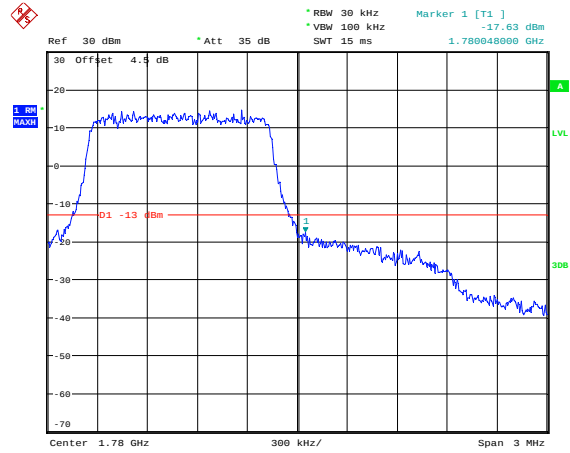
LTE Band 66:

1.4M, QPSK, Left Band Edge



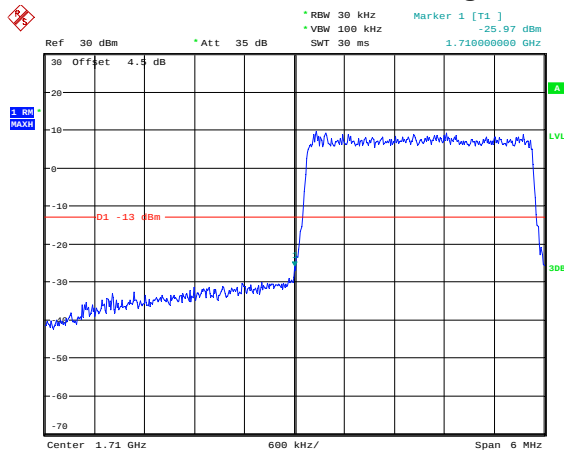
Date: 28.JAN.2021 14:01:09

1.4M, QPSK, Right Band Edge



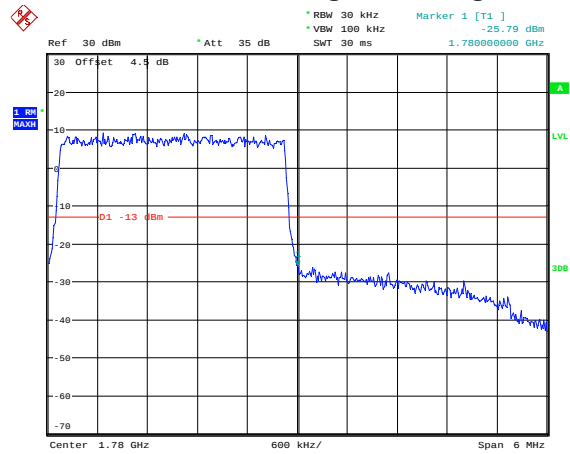
Date: 28.JAN.2021 14:01:49

3M, QPSK, Left Band Edge



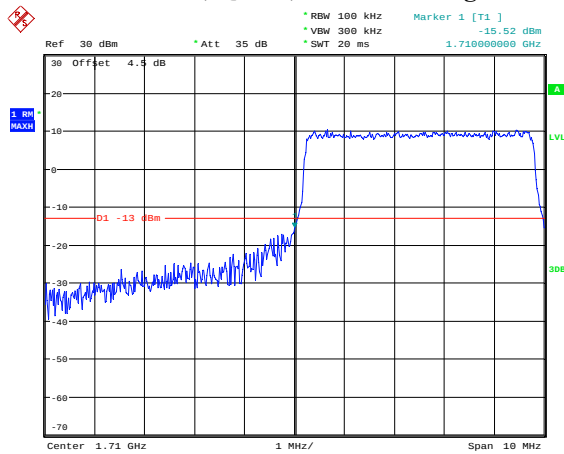
Date: 28.JAN.2021 14:02:34

3M, QPSK, Right Band Edge



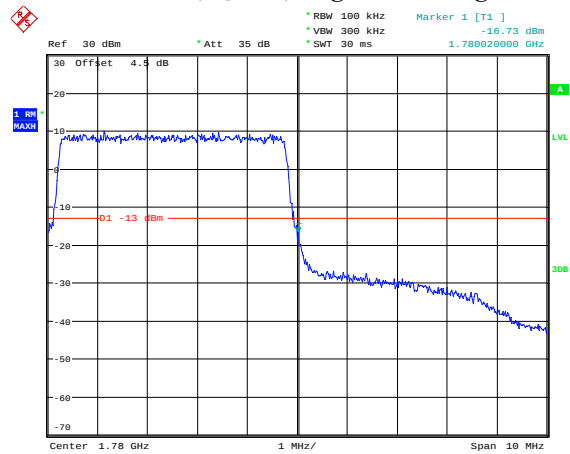
Date: 28.JAN.2021 14:03:10

5M, QPSK, Left Band Edge



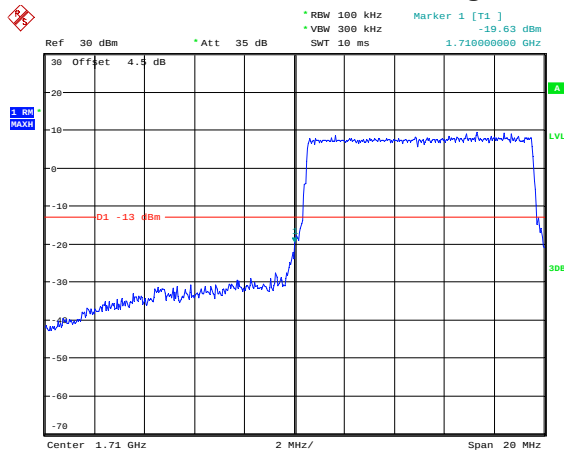
Date: 28.JAN.2021 14:07:21

5M, QPSK, Right Band Edge



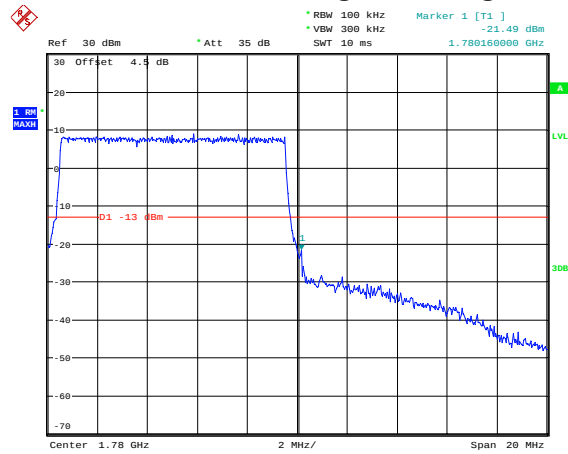
Date: 28.JAN.2021 14:10:02

10M, QPSK, Left Band Edge



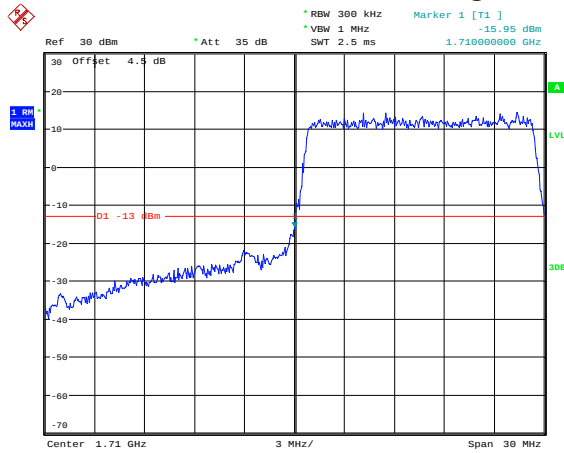
Date: 28.JAN.2021 14:11:14

10M, QPSK, Right Band Edge



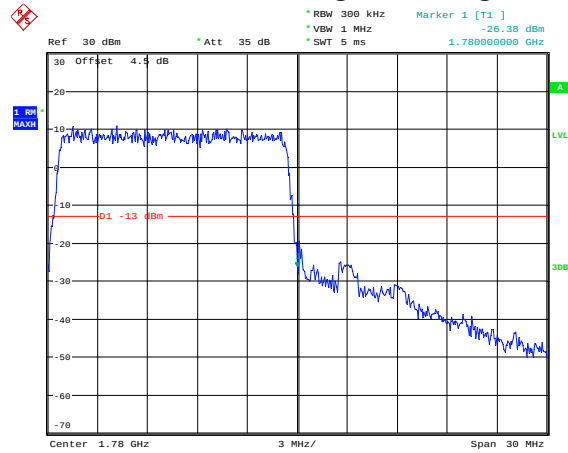
Date: 28.JAN.2021 14:12:02

15M, QPSK, Left Band Edge



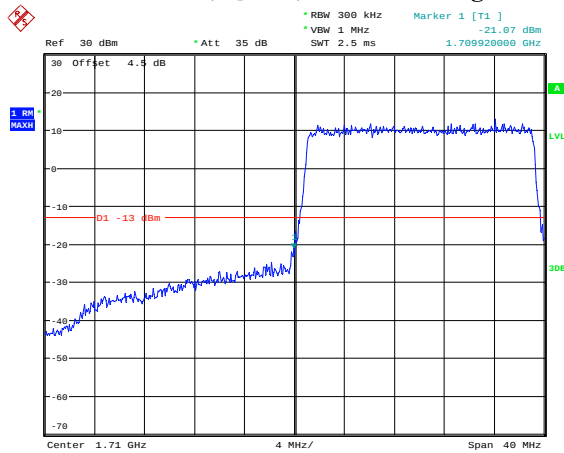
Date: 28.JAN.2021 14:12:49

15M, QPSK, Right Band Edge



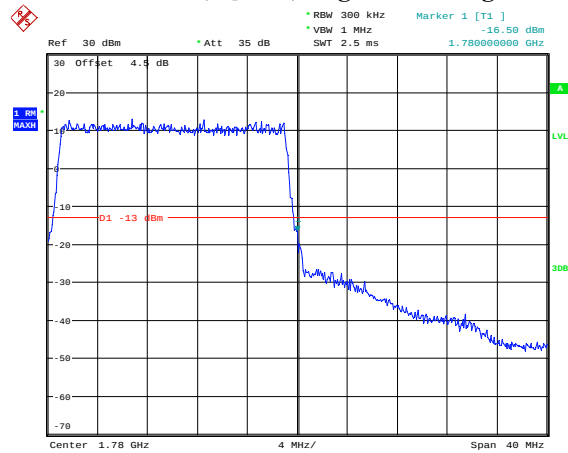
Date: 28.JAN.2021 14:14:02

20M, QPSK, Left Band Edge



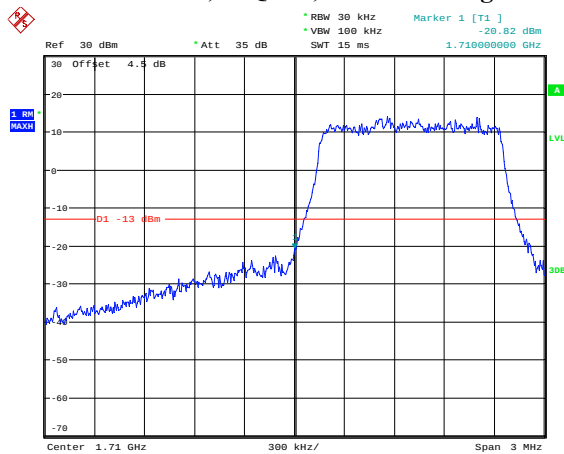
Date: 28.JAN.2021 14:14:46

20M, QPSK, Right Band Edge



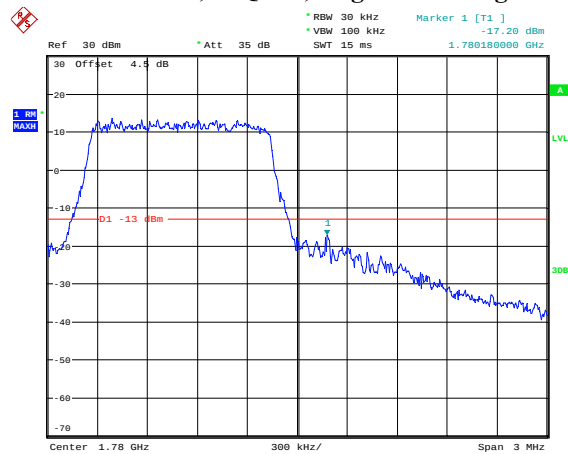
Date: 28.JAN.2021 14:15:32

1.4M, 16QAM, Left Band Edge



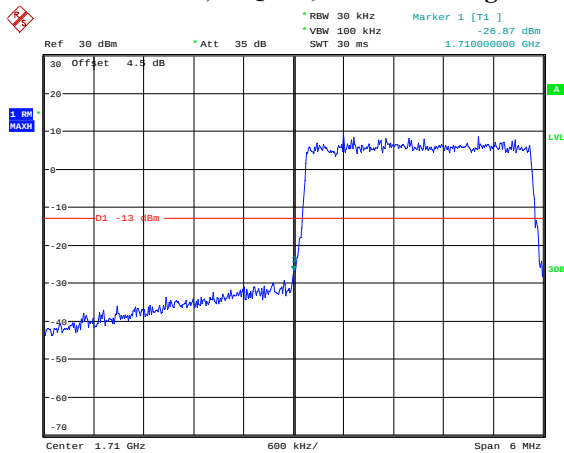
Date: 28.JAN.2021 14:01:31

1.4M, 16QAM, Right Band Edge



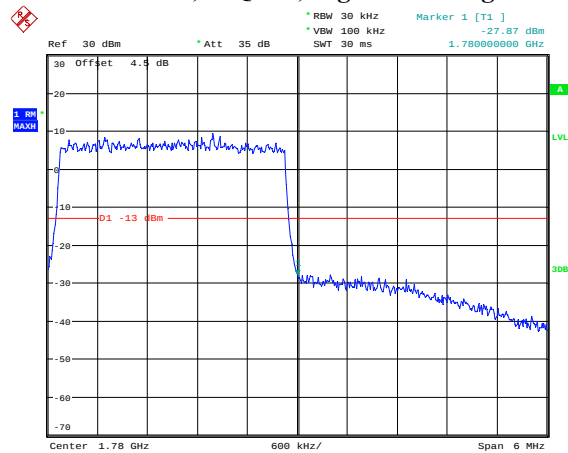
Date: 28.JAN.2021 14:02:10

3M, 16QAM, Left Band Edge



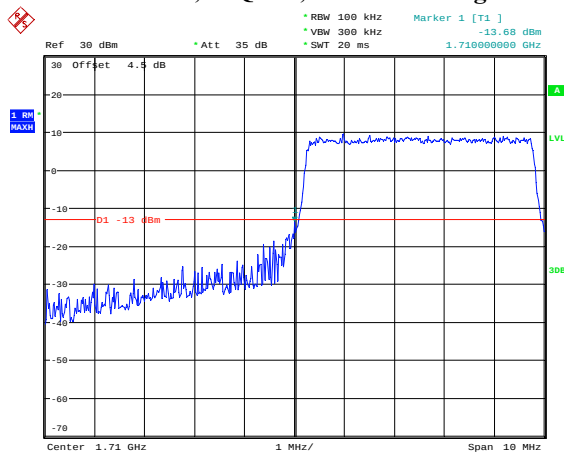
Date: 28.JAN.2021 14:02:52

3M, 16QAM, Right Band Edge



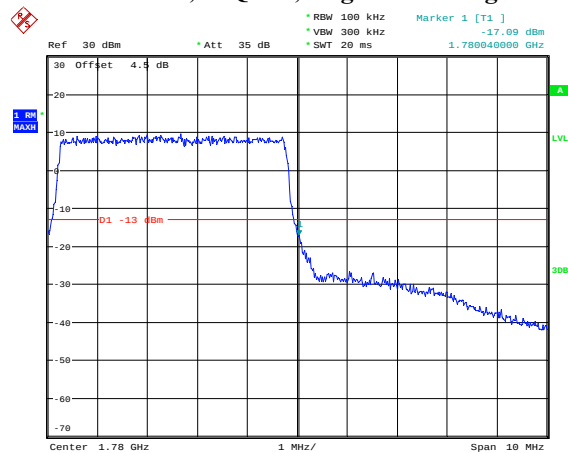
Date: 28.JAN.2021 14:03:28

5M, 16QAM, Left Band Edge



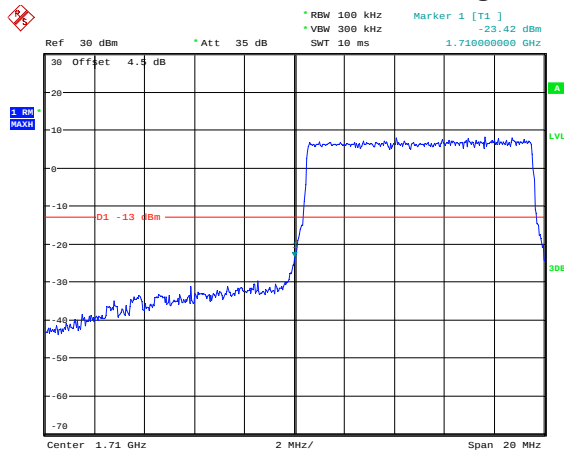
Date: 28.JAN.2021 14:07:57

5M, 16QAM, Right Band Edge



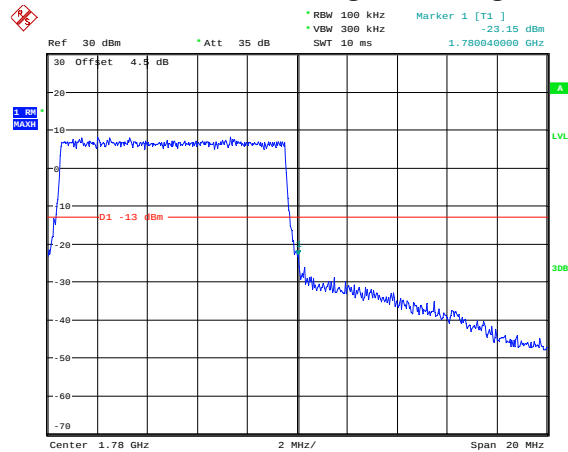
Date: 28.JAN.2021 14:10:44

10M, 16QAM, Left Band Edge



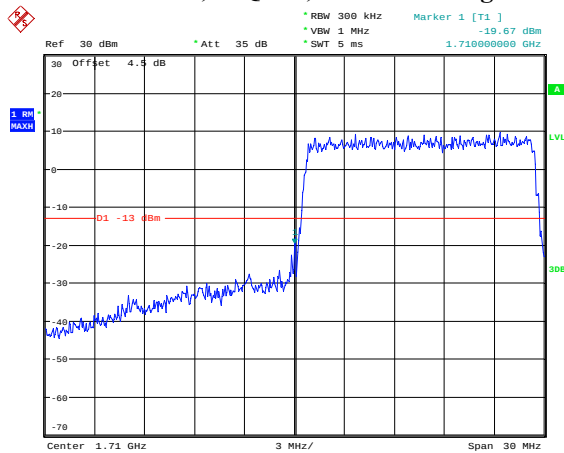
Date: 28.JAN.2021 14:11:39

10M, 16QAM, Right Band Edge



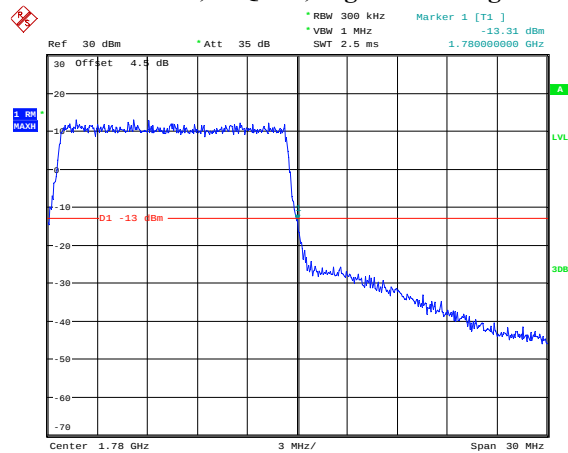
Date: 28.JAN.2021 14:12:21

15M, 16QAM, Left Band Edge



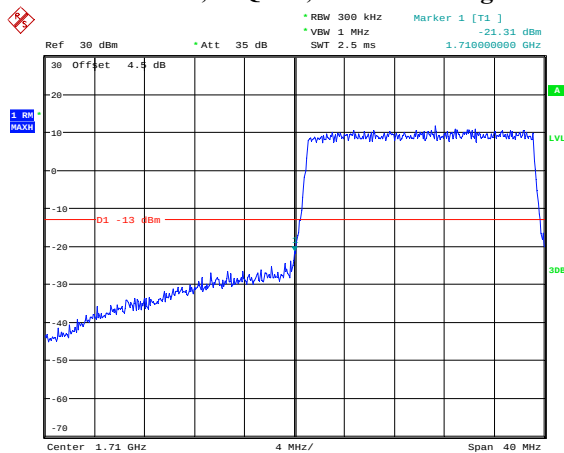
Date: 28.JAN.2021 14:13:25

15M, 16QAM, Right Band Edge



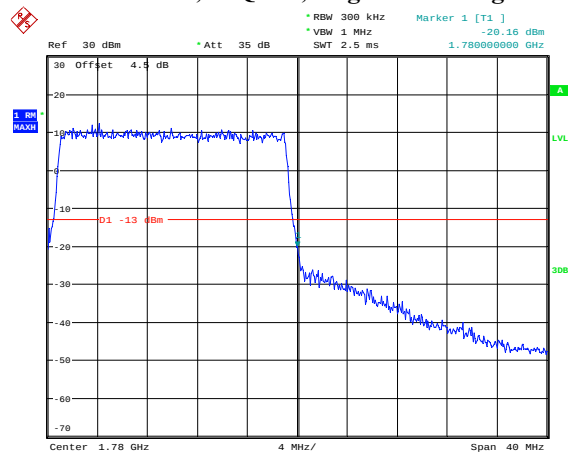
Date: 28.JAN.2021 14:14:23

20M, 16QAM, Left Band Edge



Date: 28.JAN.2021 14:15:07

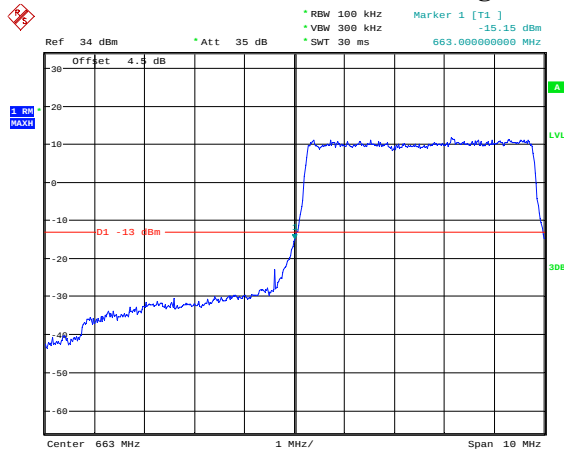
20M, 16QAM, Right Band Edge



Date: 28.JAN.2021 14:15:53

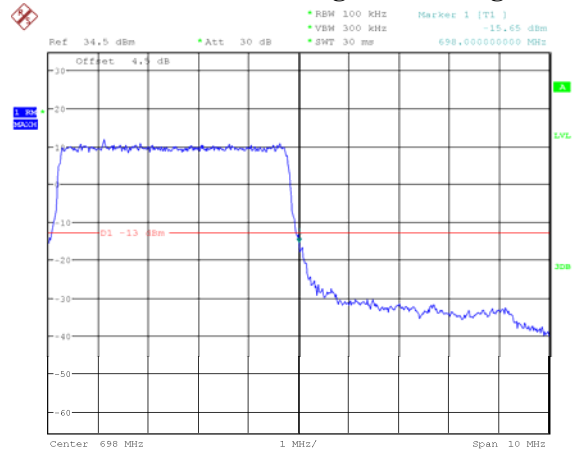
LTE Band 71:

5M, QPSK, Left Band Edge



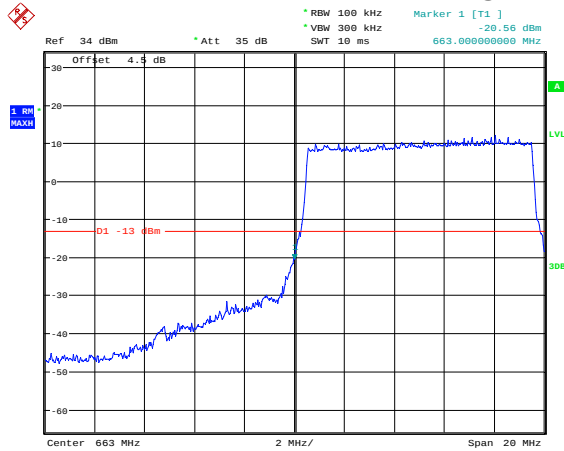
Date: 1.FEB.2021 11:16:41

5M, QPSK, Right Band Edge



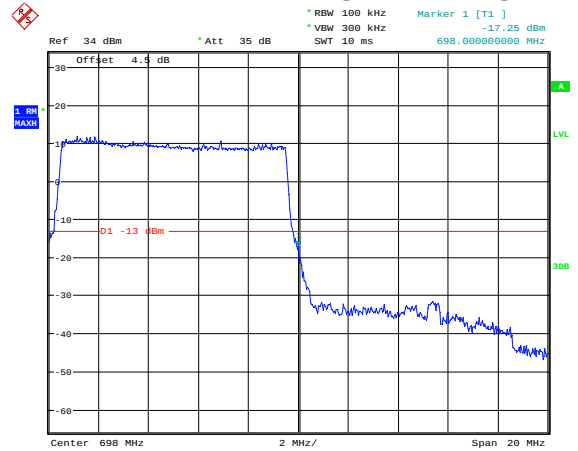
Date: 25.FEB.2021 14:39:01

10M, QPSK, Left Band Edge



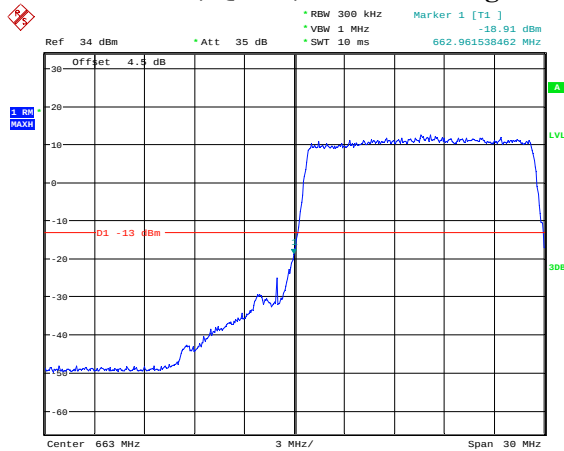
Date: 1.FEB.2021 14:02:09

10M, QPSK, Right Band Edge



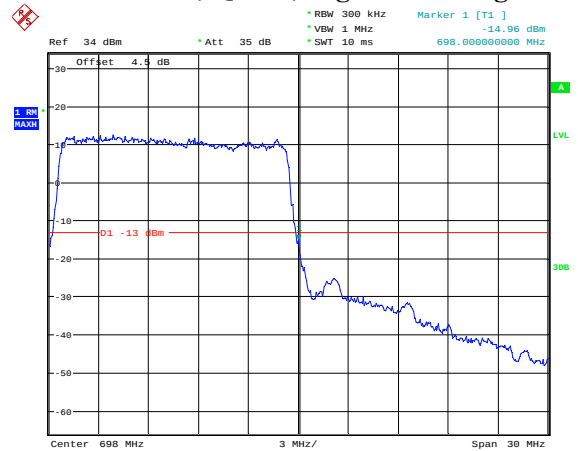
Date: 1.FEB.2021 14:43:45

15M, QPSK, Left Band Edge

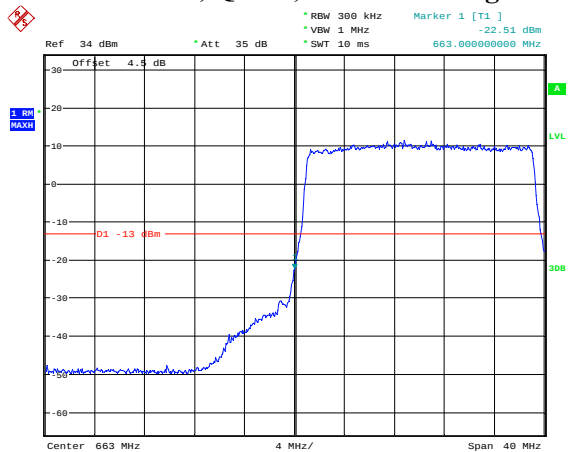


Date: 1.FEB.2021 14:47:14

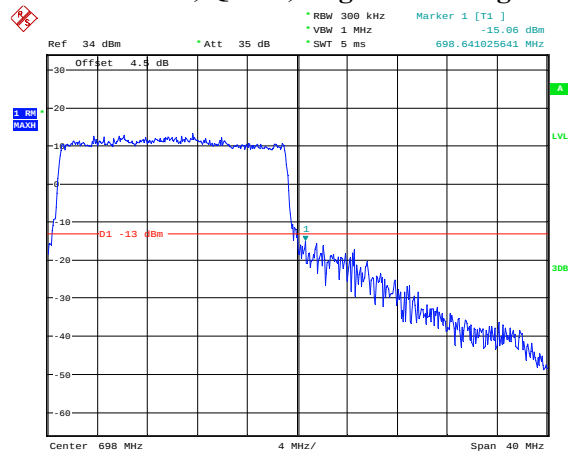
15M, QPSK, Right Band Edge



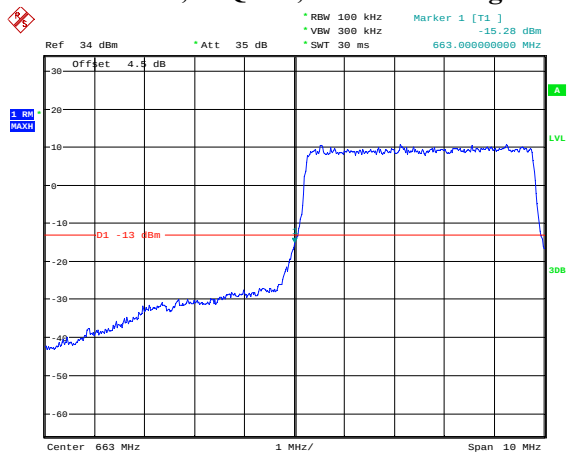
Date: 1.FEB.2021 16:11:48

20M, QPSK, Left Band Edge

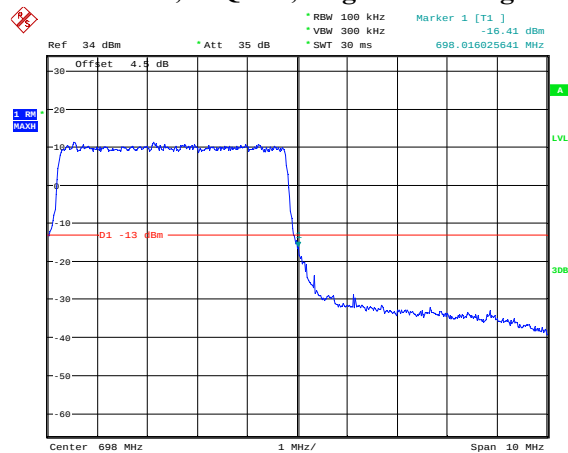
Date: 1.FEB.2021 17:26:37

20M, QPSK, Right Band Edge

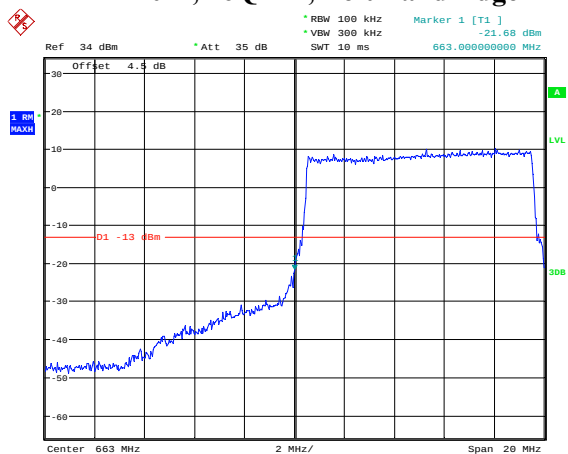
Date: 1.FEB.2021 17:53:51

5M, 16QAM, Left Band Edge

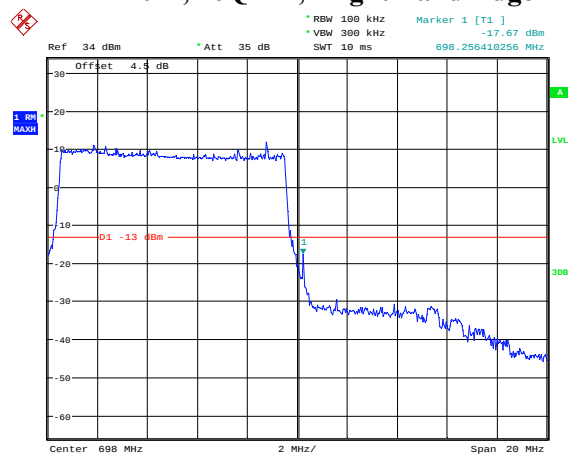
Date: 1.FEB.2021 11:16:08

5M, 16QAM, Right Band Edge

Date: 1.FEB.2021 11:48:36

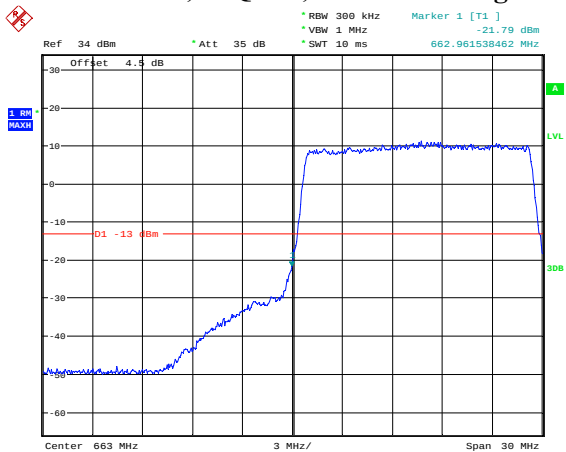
10M, 16QAM, Left Band Edge

Date: 1.FEB.2021 14:03:56

10M, 16QAM, Right Band Edge

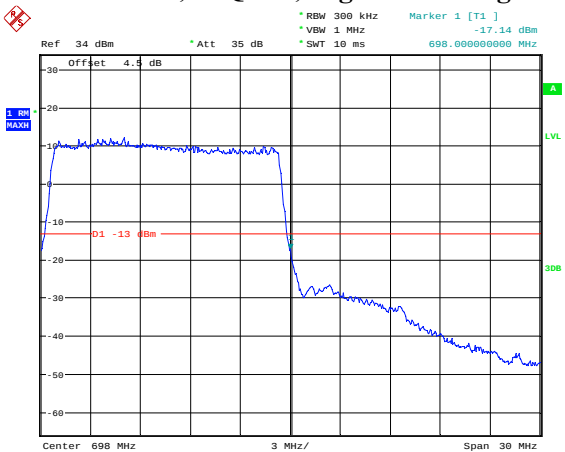
Date: 1.FEB.2021 14:44:50

15M, 16QAM, Left Band Edge



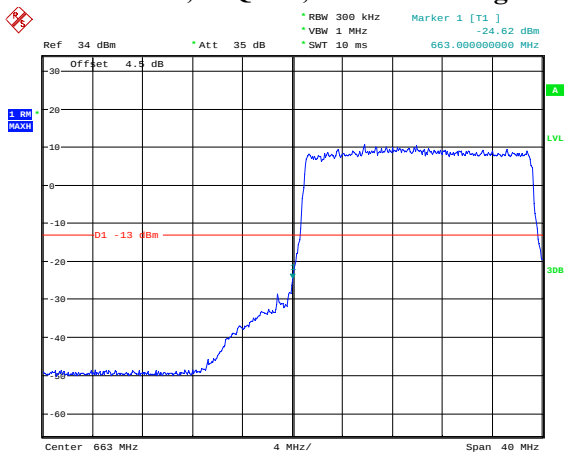
Date: 1.FEB.2021 14:47:45

15M, 16QAM, Right Band Edge



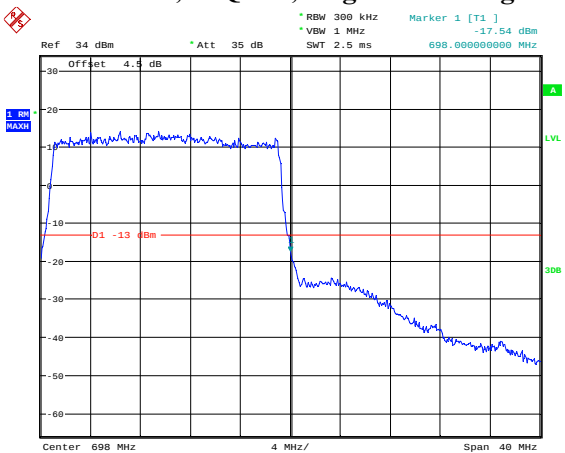
Date: 1.FEB.2021 16:10:52

20M, 16QAM, Left Band Edge



Date: 1.FEB.2021 17:27:01

20M, 16QAM, Right Band Edge



Date: 1.FEB.2021 17:52:29

FCC §2.1055, §22.355 & §24.235 & §27.54 & §90.213 - FREQUENCY STABILITY

Applicable Standard

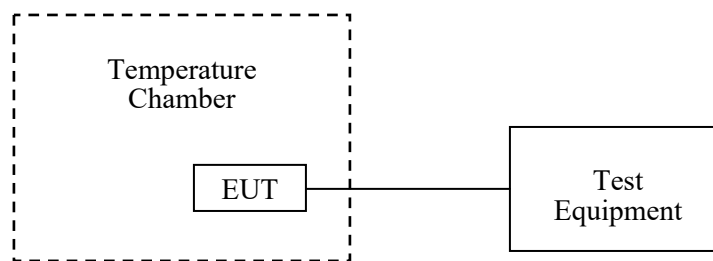
FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235, §27.54, §90.213

Test Procedure

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

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

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2020-07-07	2021-07-07
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41010012	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	147473	2020-09-23	2021-09-22
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each time	N/A
Unknown	Attenuator	UNAT-3+	15529	Each time	N/A
E-Microwave	Two-way Splitter	ODP-1-6-2S	OE0120142	Each Time	N/A
R&S	Universal Radio Communication Tester	CMU200	106 891	2020-09-12	2021-09-12
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2020-03-10	2021-03-09
UNI-T	Multimeter	UT39A	M130199938	2020-07-24	2021-07-24
Pro instrument	DC Power Supply	pps3300	3300012	N/A	N/A

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

Test Data**Environmental Conditions**

Temperature:	22.1~26.3 °C
Relative Humidity:	32~44 %
ATM Pressure:	100.8~102.8kPa
Tester:	Tylor Li
Test Date:	2021-01-27~2021-02-04

Test Result: Compliance.

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.8	7	0.00837	2.5
-20		3	0.00359	
-10		6	0.00717	
0		5	0.00598	
10		6	0.00717	
20		8	0.00956	
30		6	0.00717	
40		6	0.00717	
50		5	0.00598	
20	3.5	8	0.00956	
20	4.2	6	0.00717	

GMSK, Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.8	15	0.00798	Pass
-20		14	0.00745	
-10		10	0.00532	
0		10	0.00532	
10		8	0.00426	
20		16	0.00851	
30		8	0.00426	
40		9	0.00479	
50		7	0.00372	
20	3.5	16	0.00851	
20	4.2	15	0.00798	

8PSK, Middle Channel, $f_c = 836.6\text{MHz}$				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
$^{\circ}\text{C}$	V_{DC}	Hz	ppm	ppm
-30	3.8	13	0.01554	2.5
-20		8	0.00956	
-10		12	0.01434	
0		8	0.00956	
10		15	0.01793	
20		14	0.01673	
30		8	0.00956	
40		6	0.00717	
50		7	0.00837	
20	3.5	11	0.01315	
20	4.2	6	0.00717	

8PSK, Middle Channel, $f_c = 1880\text{ MHz}$				
Temperature	Voltage	Frequency Error	Frequency Error	Result
$^{\circ}\text{C}$	V_{DC}	Hz	ppm	
-30	3.8	12	0.00638	Pass
-20		8	0.00426	
-10		12	0.00638	
0		16	0.00851	
10		18	0.00957	
20		27	0.01436	
30		24	0.01277	
40		18	0.00957	
50		8	0.00426	
20	3.5	19	0.01011	
20	4.2	17	0.00904	

WCDMA Band II: R99

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V _{DC}	Hz	ppm	
-30	3.8	-12	-0.00638	Pass
-20		-14	-0.00745	
-10		-15	-0.00798	
0		21	0.01117	
10		-20	-0.01064	
20		-24	-0.01277	
30		-21	-0.01117	
40		-18	-0.00957	
50		-14	-0.00745	
20	3.5	-10	-0.00532	
20	4.2	-11	-0.00585	

WCDMA Band IV: R99

Rel 99 Middle Channel					
Power Supplied	Temperature	F _L	Limit	F _H	Limit
V _{dc}	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.240000	1710	1754.520000	1755
	-20	1710.100000		1754.480000	
	-10	1710.220000		1754.480000	
	0	1710.150000		1754.550000	
	10	1710.135000		1754.600000	
	20	1710.040000		1754.480000	
	30	1710.150000		1754.520000	
	40	1710.135000		1754.550000	
	50	1710.100000		1754.520000	
3.5	20	1710.220000		1754.520000	
4.2	20	1710.220000		1754.520000	

WCDMA Band V: R99

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.8	-13	-0.00750	2.5
-20		-14	-0.00808	
-10		-13	-0.00750	
0		-10	-0.00577	
10		-16	-0.00923	
20		-15	-0.00866	
30		-15	-0.00866	
40		-10	-0.00577	
50		-12	-0.00693	
20	3.5	-17	-0.00981	
20	4.2	-10	-0.00577	

LTE Band 2:

QPSK, Channel Bandwidth:20MHz Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V_{DC}	Hz	ppm	
-30	3.8	-2.46	-0.0013	Pass
-20		-7.31	-0.0039	
-10		5.76	0.0031	
0		7.90	0.0042	
10		5.79	0.0031	
20		7.13	0.0038	
30		-5.43	-0.0029	
40		7.27	0.0039	
50		-5.41	-0.0029	
20	3.5	-5.01	-0.0027	
20	4.2	9.69	0.0052	

16QAM, Channel Bandwidth:20MHz Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V_{DC}	Hz	ppm	
-30	3.8	-8.47	-0.0045	Pass
-20		-8.92	-0.0047	
-10		-8.36	-0.0044	
0		-8.10	-0.0043	
10		7.83	0.0042	
20		-5.34	-0.0028	
30		-7.07	-0.0038	
40		-7.50	-0.004	
50		8.63	0.0046	
20	3.5	-8.40	-0.0045	
20	4.2	-9.06	-0.0048	

LTE Band 4

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.30	1710	1754.47	1755
	-20	1710.27		1754.39	
	-10	1710.39		1754.50	
	0	1710.40		1754.64	
	10	1710.24		1754.53	
	20	1710.25		1754.39	
	30	1710.25		1754.42	
	40	1710.40		1754.62	
	50	1710.29		1754.60	
3.5	20	1710.64	1710	1754.57	1755
4.2	20	1710.22		1754.44	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.100000	1710	1754.520000	1755
	-20	1710.100000		1754.550000	
	-10	1710.150000		1754.480000	
	0	1710.220000		1754.480000	
	10	1710.100000		1754.550000	
	20	1710.160000		1754.480000	
	30	1710.220000		1754.550000	
	40	1710.220000		1754.480000	
	50	1710.135000		1754.480000	
3.5	20	1710.240000	1710	1754.550000	1755
4.2	20	1710.150000		1754.600000	

LTE Band 5:

Middle Channel, $f_c = 836.5$ MHz, Channel Bandwidth:10MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.8	-5.52	-0.0066	2.5
-20		-6.97	-0.0083	
-10		-5.50	-0.0066	
0		6.06	0.0072	
10		9.80	0.0117	
20		5.03	0.006	
30		-6.62	-0.0079	
40		-8.73	-0.0104	
50		-7.05	-0.0084	
20	3.5	8.99	0.0107	
20	4.2	-7.17	-0.0086	

Middle Channel, $f_c = 836.5$ MHz, Channel Bandwidth:10MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.8	-5.16	-0.0062	2.5
-20		8.10	0.0097	
-10		-8.59	-0.0103	
0		9.33	0.0112	
10		-6.94	-0.0083	
20		7.54	0.009	
30		6.43	0.0077	
40		-6.17	-0.0074	
50		-6.44	-0.0077	
20	3.5	6.34	0.0076	
20	4.2	-6.89	-0.0082	

LTE Band 12

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	699.250000	699	715.550000	716
	-20	699.400000		715.600000	
	-10	699.450000		715.750000	
	0	699.350000		715.650000	
	10	699.450000		715.600000	
	20	699.520000		715.480000	
	30	699.350000		715.700000	
	40	699.350000		715.700000	
	50	699.450000		715.600000	
3.5	20	699.350000	699	715.550000	716
4.2	20	699.450000		715.550000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	699.250000	699	715.600000	716
	-20	699.120000		715.520000	
	-10	699.250000		715.650000	
	0	699.250000		715.550000	
	10	699.300000		715.600000	
	20	699.120000		715.480000	
	30	699.250000		715.480000	
	40	699.450000		715.520000	
	50	699.120000		715.550000	
3.5	20	699.300000	699	715.550000	716
4.2	20	699.250000		715.480000	

LTE Band 13

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	777.480000	777	786.582000	787
	-20	777.480000		786.480000	
	-10	777.520000		786.480000	
	0	777.485000		786.480000	
	10	777.683000		786.584000	
	20	777.480000		786.480000	
	30	777.520000		786.635000	
	40	777.520000		786.480000	
	50	777.535000		786.534000	
3.5	20	777.535000		786.584000	
4.2	20	777.684000		786.585000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	777.520000	777	786.540000	787
	-20	777.735000		786.545000	
	-10	777.520000		786.520000	
	0	777.480000		786.534000	
	10	777.480000		786.680000	
	20	777.520000		786.480000	
	30	777.520000		786.520000	
	40	777.535000		786.580000	
	50	777.536000		786.520000	
3.5	20	777.520000		786.520000	
4.2	20	777.530000		786.480000	

LTE Band 25:

QPSK, Channel Bandwidth:20MHz Middle Channel, $f_c = 1882.5$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V_{DC}	Hz	ppm	
-30	3.8	-5.26	-0.0028	Pass
-20		8.50	0.0045	
-10		-6.20	-0.0033	
0		-6.43	-0.0034	
10		9.90	0.0053	
20		9.96	0.0053	
30		-8.05	-0.0043	
40		-8.10	-0.0043	
50		8.63	0.0046	
20	3.5	-9.02	-0.0048	
20	4.2	7.89	0.0042	

16QAM, Channel Bandwidth:20MHz Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
°C	V_{DC}	Hz	ppm	
-30	3.8	-11.10	-0.0059	Pass
-20		-5.45	-0.0029	
-10		5.38	0.0029	
0		-5.96	-0.0032	
10		7.10	0.0038	
20		6.58	0.0035	
30		-6.31	-0.0034	
40		8.10	0.0043	
50		-5.14	-0.0027	
20	3.5	-6.22	-0.0033	
20	4.2	-8.39	-0.0045	

LTE Band 26:

Middle Channel, $f_c = 831.5$ MHz, Channel Bandwidth:10MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.8	-5.51	-0.0066	2.5
-20		6.09	0.0073	
-10		-7.02	-0.0084	
0		7.35	0.0088	
10		8.23	0.0099	
20		-9.14	-0.011	
30		9.52	0.0114	
40		-6.52	-0.0078	
50		-7.83	-0.0094	
20	3.5	7.38	0.0089	
20	4.2	7.02	0.0084	

Middle Channel, $f_c = 831.5$ MHz, Channel Bandwidth:10MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
°C	V _{DC}	Hz	ppm	ppm
-30	3.8	-3.55	-0.0043	2.5
-20		-6.90	-0.0083	
-10		-8.41	-0.0101	
0		-8.47	-0.0102	
10		6.40	0.0077	
20		-6.95	-0.0084	
30		6.53	0.0079	
40		9.18	0.011	
50		7.47	0.009	
20	3.5	8.88	0.0107	
20	4.2	-7.46	-0.009	

LTE Band 41:

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2496.350000	2496	2689.520000	2690
	-20	2496.350000		2689.550000	
	-10	2496.520000		2689.550000	
	0	2496.480000		2689.520000	
	10	2496.400000		2689.480000	
	20	2496.520000		2689.520000	
	30	2496.480000		2689.600000	
	40	2496.450000		2689.480000	
	50	2496.400000		2689.550000	
3.5	20	2496.480000		2689.480000	
4.2	20	2496.480000		2689.480000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	2496.250000	2496	2689.520000	2690
	-20	2496.350000		2689.480000	
	-10	2496.450000		2689.650000	
	0	2496.300000		2689.520000	
	10	2496.250000		2689.480000	
	20	2496.520000		2689.520000	
	30	2496.450000		2689.480000	
	40	2496.300000		2689.480000	
	50	2496.300000		2689.520000	
3.5	20	2496.350000		2689.550000	
4.2	20	2496.400000		2689.480000	

LTE Band 66:

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.480000	1710	1779.550000	1780
	-20	1710.450000		1779.650000	
	-10	1710.480000		1779.550000	
	0	1710.480000		1779.550000	
	10	1710.300000		1779.480000	
	20	1710.520000		1779.480000	
	30	1710.400000		1779.520000	
	40	1710.300000		1779.480000	
	50	1710.520000		1779.480000	
3.5	20	1710.520000		1779.520000	
4.2	20	1710.400000		1779.520000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	1710.350000	1710	1779.480000	1780
	-20	1710.350000		1779.480000	
	-10	1710.450000		1779.480000	
	0	1710.450000		1779.550000	
	10	1710.300000		1779.520000	
	20	1710.520000		1779.480000	
	30	1710.350000		1779.520000	
	40	1710.400000		1779.550000	
	50	1710.450000		1779.520000	
3.5	20	1710.350000		1779.600000	
4.2	20	1710.300000		1779.550000	

LTE Band 71:

QPSK, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	663.425000	663	697.231000	698
	-20	663.315000		697.231000	
	-10	663.213000		697.231000	
	0	663.425000		697.520000	
	10	663.425000		697.480000	
	20	663.513000		697.487000	
	30	663.420000		697.520000	
	40	663.213000		697.231000	
	50	663.315000		697.520000	
3.5	20	663.315000		697.520000	
4.2	20	663.513000		697.480000	

16-QAM, Channel Bandwidth:10MHz					
Power Supplied	Temperature	F_L	Limit	F_H	Limit
Vdc	°C	MHz	MHz	MHz	MHz
3.8	-30	663.420000	663	697.480000	698
	-20	663.513000		697.520000	
	-10	663.420000		697.480000	
	0	663.420000		697.520000	
	10	663.420000		697.480000	
	20	663.420000		697.487000	
	30	663.513000		697.480000	
	40	663.315000		697.231000	
	50	663.213000		697.487000	
3.5	20	663.425000		697.520000	
4.2	20	663.315000		697.480000	

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

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