

FCC PART 27
FCC PART 90
FCC PART 22H, PART 24E
TEST REPORT

For

Fujian Morefun Electronic Technology Co., Ltd.

A-602, No.10 Building, HaiXi Innovation Area, High-Tech Zone, Fuzhou, Fujian, China

FCC ID: 2AQREPOS10Q

Report Type: Original Report	Product Type: Smart POS Terminal
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Report Number:	RXM200929050-00E
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Fujian Morefun Electronic Technology Co., Ltd.
Tested Model:	POS10Q
Product Type:	Smart POS Terminal
Power Supply:	DC 12.0V from adapter and DC 7.4V from battery
RF Function:	WCDMA, LTE
Operating Band/Frequency:	WCDMA Band II: 1850-1910 MHz(TX), 1930-1990 MHz(RX) WCDMA Band IV: 1710-1755 MHz(TX), 2110-2155MHz(RX) WCDMA Band V: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX), 1930MHz-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX), 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX) LTE Band 13: 777-787 MHz(TX), 746-756 MHz(RX) LTE Band 25: 1850-1915 MHz(TX), 1930-1995 MHz(RX) LTE Band 26: 814-849 MHz(TX), 859-894 MHz(RX)
Modulation Type:	WCDMA: BPSK,QPSK,16QAM LTE: QPSK,16QAM
Antenna Type:	FPC antenna
*Maximum Antenna Gain:	WCDMA Band II/WCDMA Band IV/WCDMA Band V/LTE Band 2/LTE Band 4/LTE Band 5/LTE Band 7/LTE Band 12/LTE Band 13/LTE Band 25/LTE Band 26: 4.20 dBi

Adapter Information:

Model: DGL1201000LUS

Input: AC 100-240V, 50/60Hz, 0.3A

Output: DC 12.0V, 1.0A

Note: The Maximum Antenna Gain was declared by the manufacturer.

*All measurement and test data in this report was gathered from production sample serial number: 20200929050.
(Assigned by the BACL. The EUT supplied by the applicant was received on 2020-09-29)

Objective

This type approval report is prepared on behalf of *Fujian Morefun Electronic Technology Co., Ltd.* in accordance with Part 2, Part 22-Subpart H , Part 24-Subpart E, Part 27 and Part 90 of the Federal Communication Commission's rules.

The objective is to determine the compliance of EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, and band edge.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS Submittal with FCC ID: 2AQREPOS10Q

FCC Part 15.247 DTS Submittal with FCC ID: 2AQREPOS10Q

FCC Part 15.225 DXX submissions with FCC ID: 2AQREPOS10Q

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-Part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - Personal Communication Services

Part 27 – Miscellaneous wireless communications services

Part 90 – Private Land Mobile Radio Service

Applicable Standards: ANSI C63.26-2015.

All radiated and conducted emissions measurements were performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	5.91dB
	1GHz~6GHz	4.68dB
	6GHz~18GHz	4.92dB
	18GHz~40GHz	5.21dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliant Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to ANSI C63.26-2015.

The final qualification test was performed with the EUT operating at normal mode.

Channel List

Mode		Channel		Frequency (MHz)
WCDMA Band II		Low	9262	1852.4
		Middle	9400	1880.0
		High	9538	1907.6
WCDMA Band IV		Low	1312	1712.4
		Middle	1413	1732.6
		High	1513	1752.6
WCDMA Band V		Low	4132	826.4
		Middle	4183	836.6
		High	4233	846.6
LTE Band 2	1.4M	Low	18607	1850.7
		Middle	18900	1880.0
		High	19193	1909.3
	3M	Low	18615	1851.5
		Middle	18900	1880.0
		High	19185	1908.5
	5M	Low	18625	1852.5
		Middle	18900	1880.0
		High	19175	1907.5
	10M	Low	18650	1855.0
		Middle	18900	1880.0
		High	19150	1905.0
	15M	Low	18675	1857.5
		Middle	18900	1880.0
		High	19125	1902.5
	20M	Low	18700	1860.0
		Middle	18900	1880.0
		High	19100	1900.0

Mode		Channel		Frequency (MHz)
LTE Band 4	1.4M	Low	19957	1710.7
		Middle	20175	1732.5
		High	20393	1754.3
	3M	Low	19965	1711.5
		Middle	20175	1732.5
		High	20385	1753.5
	5M	Low	19975	1712.5
		Middle	20175	1732.5
		High	20375	1752.5
	10M	Low	20000	1715.0
		Middle	20175	1732.5
		High	20350	1750.0
	15M	Low	20025	1717.5
		Middle	20175	1732.5
		High	20325	1747.5
	20M	Low	20050	1720.0
		Middle	20175	1732.5
		High	20300	1745.0
LTE Band 5	1.4M	Low	20407	824.7
		Middle	20525	836.5
		High	20643	848.3
	3M	Low	20415	825.5
		Middle	20525	836.5
		High	20635	847.5
	5M	Low	20425	826.5
		Middle	20525	836.5
		High	20625	846.5
	10M	Low	20450	829.0
		Middle	20525	836.5
		High	20600	844.0
LTE Band 7	5M	Low	20775	2502.5
		Middle	21100	2535.0
		High	21425	2567.5
	10M	Low	20800	2505.0
		Middle	21100	2535.0
		High	21400	2565.0
	15M	Low	20825	2507.5
		Middle	21100	2535.0
		High	21375	2562.5
	20M	Low	20850	2510.0
		Middle	21100	2535.0
		High	21350	2560.0

Mode		Channel		Frequency (MHz)
LTE Band 12	1.4M	Low	23017	699.7
		Middle	23095	707.5
		High	23173	715.3
	3M	Low	23025	700.5
		Middle	23095	707.5
		High	23165	714.5
	5M	Low	23035	701.5
		Middle	23095	707.5
		High	23155	713.5
	10M	Low	23060	704.0
		Middle	23095	707.5
		High	23130	711.0
LTE Band 13	5M	Low	23205	779.5
		Middle	23230	782.0
		High	23255	784.5
	10M	Low	/	/
		Middle	23230	782.0
		High	/	/
LTE Band 25	1.4M	Low	26047	1850.7
		Middle	26365	1882.5
		High	26683	1914.3
	3M	Low	26055	1851.5
		Middle	26683	1882.5
		High	26675	1913.5
	5M	Low	26065	1852.5
		Middle	26683	1882.5
		High	26665	1912.5
	10M	Low	26090	1855.0
		Middle	26683	1882.5
		High	26640	1910.0
	15M	Low	26115	1857.5
		Middle	26683	1882.5
		High	26615	1907.5
	20M	Low	26140	1860.0
		Middle	26683	1882.5
		High	26590	1905.0

Mode		Channel		Frequency (MHz)
LTE Band 26	1.4M	Low	26697	814.7
		Middle	26915	831.5
		High	27033	848.3
	3M	Low	26705	815.5
		Middle	26915	831.5
		High	27025	847.5
	5M	Low	26715	816.5
		Middle	26915	831.5
		High	27015	846.5
	10M	Low	26740	819.0
		Middle	26915	831.5
		High	26990	844.0
	15M	Low	26765	821.5
		Middle	26915	831.5
		High	26965	841.5

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

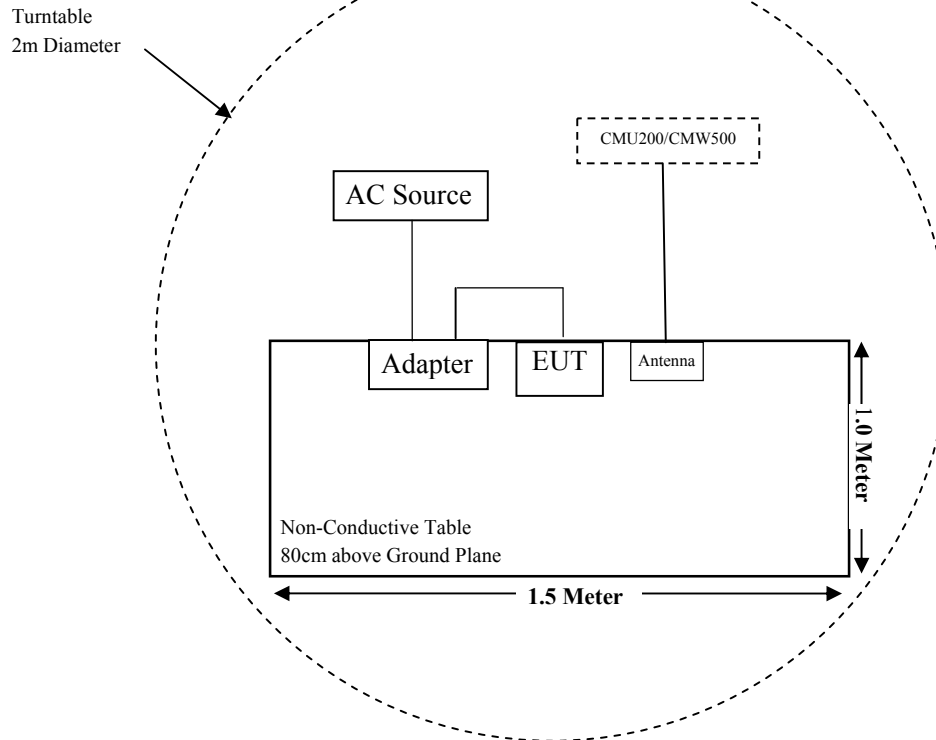
Manufacturer	Description	Model	Serial Number
Aihuaxin technology	Antenna	/	/
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478

External I/O Cable

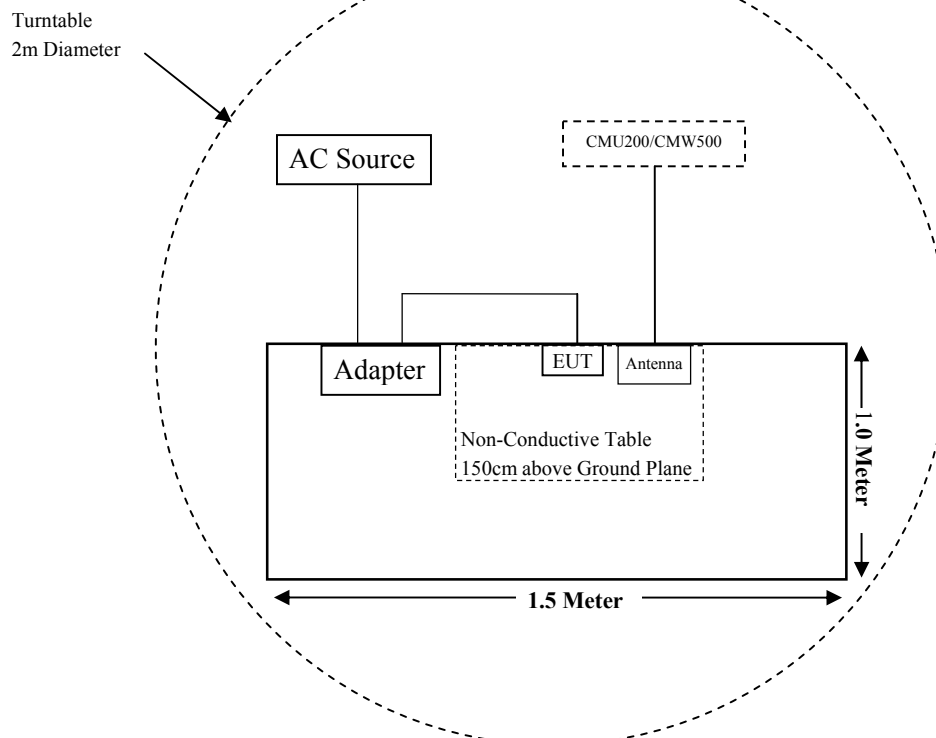
Cable Description	Length (m)	From Port	To
Power Cable	1.0	EUT	Adapter
Power Cable	1.0	Adapter	AC Source

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §2.1093	RF Exposure Information	Compliant
§ 2.1046; § 22.913 (a); §24.232 (c); §27.50 (b)(c)(d) (h)(2); §90.635 (b)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53 § 90.209	Occupied Bandwidth	Compliant
§ 2.1051; §22.917 (a); §24.238 (a); §27.53(c) (f) (h) (m); §90.691	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053; §22.917 (a) §24.238 (a); §27.53 (h) (m); §90.691	Spurious Radiated Emissions	Compliant
§ 22.917 (a); §24.238 (a); § 27.53 (h) (m); §90.691	Band Edge	Compliant
§ 2.1055; § 22.355; § 24.235; §27.54 § 90.213	Frequency stability	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2019-12-14	2020-12-13
HP	Signal Generator	N5183A	MY51040755	2019-12-14	2020-12-13
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2017-12-26	2020-12-25
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2019-01-09	2022-01-08
Sonoma Instrunent	Pre-amplifier	310N	171205	2020-08-14	2021-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605	2020-04-01	2021-03-31
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2020-08-05	2021-08-04
Radiated Emission Test (Chamber 2#)					
HP	Signal Generator	N5183A	MY51040755	2019-12-14	2020-12-13
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2020-04-01	2021-03-31
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2020-07-15	2023-07-14
ETS-LINDGREN	Horn Antenna	3115	6229	2020-01-10	2023-01-09
ETS-LINDGREN	Horn Antenna	3116	00084159	2019-12-12	2022-12-11
ETS-LINDGREN	Horn Antenna	3116	2516	2020-01-17	2023-01-16
A.H.Systems,inc	Amplifier	PAM-0118P	512	2020-02-20	2021-02-19
EM Electronics Corporation	Amplifier	EM18G40G	060726	2020-03-22	2021-03-21
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2019-12-12	2020-12-11
MICRO-COAX	Coaxial Cable	Cable-11	011	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-16	016	2020-08-15	2021-08-14
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605	2020-04-01	2021-03-31
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2020-08-05	2021-08-04

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131/009	2019-12-14	2020-12-13
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146	2019-12-14	2020-12-13
Narda	Attenuator	6dB	006	2020-01-10	2021-01-09
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	110605	2020-04-01	2021-03-31
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2020-08-05	2021-08-04
Mini-Circuits	Power splitter	ZFRSC-14-S+	SF019411452	2019-11-10	2020-11-09
BACL	Temperature & Humidity Chamber	BTH-150	30023	2019-12-20	2020-12-19
EAST	Regulated DC Power Supply	MCH-303D-II	14070562	2020-10-10	2021-10-09
Fujian Morefun Electronic Technology Co., Ltd.	RF Cable	Fujian Morefun Electronic Technology Co., Ltd. C01	C01	Each Time	/

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

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1307, §2.1093.

Test Result

Compliance, please refer to the SAR report: RXM200929050-SA

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E, Part 27, Part 90 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC §2.1046; § 22.913 (a); §24.232 (c); §27.50 (b) (c) (d) (h)(2); §90.635 (b) - RF OUTPUT POWER

Applicable Standards

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45dBm).

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts (33dBm) EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(b), portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1755MHz.

According to §27.50(c), Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to §27.50(h) (2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

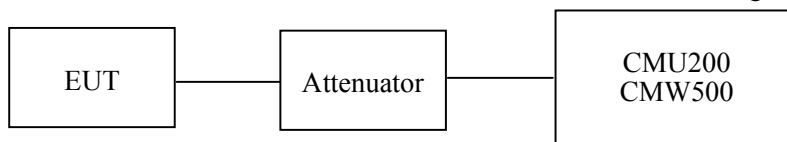
According to FCC §2.1046 and §90.635 (b), The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw)

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure

Conducted method:

The RF output of the transmitter was connected to the CMW500/CMU200 through sufficient attenuation.



Radiated Output Power:

The measurements procedures specified in ANSI C63.26-2015 were applied.

- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360o azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.

d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.
 $\text{LOSS} = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$

e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:

$$\text{ERP (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$$

f) The maximum ERP is the maximum value determined in the preceding step.

(Note: Effective Isotropic Radiated Power (EIRP) can be computed using the following:

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB)}$$

Test Data

Environmental Conditions

Temperature:	23.6-25.4 °C
Relative Humidity:	49-55 %
ATM Pressure:	101.1-101.6 kPa

The testing was performed by Jack Jiao from 2020-11-02 to 2020-11-09.

Conducted Power:

WCDMA Band V

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band V)	Normal	Rel 99	1	22.35	22.84	22.54
		HSDPA	1	22.03	22.07	22.13
			2	22.00	22.07	22.14
			3	21.96	22.10	22.25
			4	22.10	21.99	22.26
		HSUPA	1	22.12	21.98	22.18
			2	21.95	22.05	22.12
			3	22.10	22.02	22.17
			4	21.98	22.07	22.14
			5	21.95	22.14	22.07
		HSPA+	1	22.15	22.04	22.01

WCDMA Band II

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band II)	Normal	Rel 99	1	22.54	22.32	22.19
		HSDPA	1	22.27	22.09	22.10
			2	22.27	22.12	22.09
			3	22.25	22.05	22.13
			4	22.25	22.03	22.16
		HSUPA	1	22.34	21.98	22.10
			2	22.19	22.16	22.25
			3	22.13	21.99	22.02
			4	22.19	22.11	22.04
			5	22.30	22.09	22.11
		HSPA+	1	22.26	22.06	22.20

WCDMA Band IV

Mode	Test Condition	Test Mode	3GPP Sub Test	Average Output Power (dBm)		
				Low Frequency	Middle Frequency	High Frequency
WCDMA (Band IV)	Normal	Rel 99	1	22.51	22.32	22.54
		HSDPA	1	22.23	21.99	22.21
			2	22.16	22.08	22.14
			3	22.19	22.08	22.05
			4	22.34	22.00	22.13
		HSUPA	1	22.23	22.15	22.26
			2	22.38	22.06	22.15
			3	22.33	22.14	22.17
			4	22.35	22.15	22.01
			5	22.25	22.13	22.20
		HSPA+	1	22.30	21.94	22.11

Maximum Output Power:**LTE Band 2**

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	21.58	21.99	21.79
		1#3	21.59	22.00	21.90
		1#5	21.63	21.94	21.87
		3#0	21.65	21.96	21.89
		3#1	21.68	21.99	21.97
		3#3	21.69	21.91	22.07
		6#0	21.69	21.80	22.13
	16-QAM	1#0	21.64	21.86	22.20
		1#3	21.63	21.90	22.18
		1#5	21.55	21.93	22.09
		3#0	21.54	21.98	22.06
		3#1	21.59	22.03	22.01
		3#3	21.60	21.99	22.08
		6#0	21.54	22.01	22.10
3M	QPSK	1#0	21.49	21.95	22.20
		1#7	21.53	22.02	22.23
		1#14	21.44	22.05	22.22
		8#0	21.41	22.08	22.22
		8#4	21.38	22.18	22.22
		8#7	21.34	22.16	22.22
		15#0	21.37	22.16	22.23
	16-QAM	1#0	21.39	22.14	22.16
		1#7	21.39	22.19	22.13
		1#14	21.32	22.28	22.12
		8#0	21.43	22.30	22.14
		8#4	21.34	22.22	22.21
		8#7	21.28	22.26	22.22
		15#0	21.30	22.25	22.32

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.19	22.35	22.29
		1#12	21.31	22.42	22.18
		1#24	21.38	22.50	22.18
		12#0	21.35	22.53	22.22
		12#6	21.36	22.50	22.22
		12#11	21.29	22.52	22.19
		25#0	21.28	22.47	22.19
	16-QAM	1#0	21.17	22.45	22.27
		1#12	21.13	22.52	22.27
		1#24	21.13	22.59	22.29
		12#0	21.01	22.48	22.39
		12#6	21.08	22.54	22.41
		12#11	21.12	22.53	22.45
		25#0	21.23	22.50	22.46
10M	QPSK	1#0	21.28	22.42	22.54
		1#24	21.29	22.52	22.52
		1#49	21.24	22.58	22.48
		25#0	21.29	22.68	22.41
		25#12	21.40	22.67	22.47
		25#24	21.29	22.77	22.56
		50#0	21.32	22.73	22.52
	16-QAM	1#0	21.33	22.76	22.56
		1#24	21.42	22.68	22.44
		1#49	21.43	22.74	22.45
		25#0	21.46	22.88	22.46
		25#12	21.48	22.83	22.46
		25#24	21.49	22.78	22.56
		50#0	21.54	22.77	22.63

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	21.56	22.70	22.74
		1#37	21.52	22.66	22.67
		1#74	21.49	22.62	22.68
		36#0	21.52	22.49	22.75
		36#17	21.52	22.50	22.79
		36#35	21.55	22.54	22.82
		75#0	21.56	22.51	22.88
	16-QAM	1#0	21.44	22.55	23.01
		1#37	21.43	22.59	22.90
		1#74	21.38	22.55	22.90
		36#0	21.41	22.57	23.01
		36#17	21.40	22.56	23.00
		36#35	21.34	22.56	22.89
		75#0	21.38	22.67	22.90
20M	QPSK	1#0	21.48	22.64	22.87
		1#49	21.51	22.52	22.84
		1#99	21.51	22.64	22.86
		50#0	21.55	22.58	22.91
		50#24	21.62	22.54	23.01
		50#49	21.74	22.58	22.90
		100#0	21.69	22.62	22.81
	16-QAM	1#0	21.60	22.67	22.77
		1#49	21.64	22.64	22.80
		1#99	21.54	22.63	22.82
		50#0	21.60	22.66	22.82
		50#24	21.55	22.68	22.79
		50#49	21.64	22.74	22.89
		100#0	21.62	22.76	22.80

LTE Band 4

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	21.98	21.85	21.94
		1#3	21.91	21.92	21.90
		1#5	21.83	22.00	21.97
		3#0	21.84	21.98	21.92
		3#1	21.70	22.00	21.95
		3#3	21.66	21.95	21.93
		6#0	21.63	21.95	22.02
	16-QAM	1#0	21.69	21.92	22.06
		1#3	21.65	21.85	21.96
		1#5	21.66	21.78	21.96
		3#0	21.74	21.77	21.97
		3#1	21.65	21.87	22.10
		3#3	21.66	21.87	22.21
		6#0	21.76	21.93	22.27
3M	QPSK	1#0	21.82	21.97	22.26
		1#7	21.81	22.05	22.20
		1#14	21.77	22.01	22.25
		8#0	21.77	22.00	22.23
		8#4	21.77	21.99	22.25
		8#7	21.69	21.93	22.33
		15#0	21.74	21.98	22.19
	16-QAM	1#0	21.85	22.02	22.10
		1#7	21.87	21.97	22.16
		1#14	21.88	21.98	22.21
		8#0	21.77	22.03	22.26
		8#4	21.72	22.02	22.22
		8#7	21.74	22.02	22.23
		15#0	21.69	22.14	22.21

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.59	22.28	22.28
		1#12	21.71	22.37	22.21
		1#24	21.72	22.38	22.21
		12#0	21.67	22.46	22.25
		12#6	21.73	22.42	22.25
		12#11	21.76	22.34	22.31
		25#0	21.70	22.32	22.37
	16-QAM	1#0	21.65	22.39	22.26
		1#12	21.59	22.42	22.12
		1#24	21.62	22.42	22.06
		12#0	21.57	22.39	22.07
		12#6	21.53	22.33	22.03
		12#11	21.55	22.23	22.11
		25#0	21.48	22.23	22.16
10M	QPSK	1#0	21.55	22.24	22.09
		1#24	21.56	22.19	22.04
		1#49	21.55	22.19	22.09
		25#0	21.63	22.26	22.06
		25#12	21.53	22.26	22.11
		25#24	21.56	22.32	22.23
		50#0	21.66	22.32	22.21
	16-QAM	1#0	21.70	22.23	22.32
		1#24	21.69	22.21	22.20
		1#49	21.64	22.17	22.17
		25#0	21.67	22.18	22.09
		25#12	21.65	22.22	22.05
		25#24	21.70	22.26	22.02
		50#0	21.77	22.14	22.08

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	21.78	22.20	22.05
		1#37	21.92	22.34	22.10
		1#74	21.81	22.41	22.08
		36#0	21.87	22.47	22.16
		36#17	21.84	22.48	22.18
		36#35	21.75	22.43	22.27
		75#0	21.71	22.53	22.24
	16-QAM	1#0	21.60	22.62	22.26
		1#37	21.71	22.49	22.34
		1#74	21.69	22.54	22.29
		36#0	21.73	22.54	22.26
		36#17	21.76	22.63	22.29
		36#35	21.82	22.72	22.30
		75#0	21.89	22.67	22.29
20M	QPSK	1#0	21.93	22.79	22.25
		1#49	21.90	22.80	22.24
		1#99	21.88	22.87	22.20
		50#0	21.84	22.88	22.28
		50#24	21.76	22.90	22.28
		50#49	21.79	23.04	22.28
		100#0	21.77	23.16	22.21
	16-QAM	1#0	21.84	23.11	22.16
		1#49	21.79	23.07	22.12
		1#99	21.87	22.99	22.12
		50#0	21.89	23.03	22.22
		50#24	21.93	23.06	22.32
		50#49	21.99	23.10	22.32
		100#0	22.00	23.08	22.36

LTE Band 5

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	21.74	21.88	21.97
		1#3	21.71	21.92	21.99
		1#5	21.78	22.01	21.99
		3#0	21.66	22.09	22.03
		3#1	21.74	22.10	22.14
		3#3	21.81	22.18	22.24
		6#0	21.69	22.12	22.11
	16-QAM	1#0	21.80	22.12	22.10
		1#3	21.93	22.18	22.10
		1#5	22.02	22.12	22.22
		3#0	22.12	22.19	22.26
		3#1	22.07	22.29	22.28
		3#3	22.03	22.28	22.27
		6#0	22.11	22.24	22.27
3M	QPSK	1#0	22.08	22.21	22.23
		1#7	22.03	22.30	22.12
		1#14	22.00	22.23	22.13
		8#0	21.98	22.16	22.05
		8#4	21.86	22.14	22.13
		8#7	21.92	22.23	22.18
		15#0	22.04	22.18	22.21
	16-QAM	1#0	22.04	22.28	22.18
		1#7	22.10	22.28	22.12
		1#14	22.18	22.25	22.04
		8#0	22.24	22.31	22.01
		8#4	22.36	22.31	22.00
		8#7	22.45	22.31	22.00
		15#0	22.45	22.38	21.95

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	22.43	22.45	21.91
		1#12	22.47	22.30	21.84
		1#24	22.50	22.41	21.88
		12#0	22.41	22.34	21.77
		12#6	22.54	22.34	21.76
		12#11	22.53	22.33	21.72
		25#0	22.55	22.37	21.72
	16-QAM	1#0	22.58	22.47	21.65
		1#12	22.59	22.44	21.64
		1#24	22.59	22.46	21.64
		12#0	22.65	22.54	21.66
		12#6	22.61	22.52	21.56
		12#11	22.70	22.52	21.45
		25#0	22.61	22.51	21.50
10M	QPSK	1#0	22.69	22.47	21.5
		1#24	22.71	22.43	21.53
		1#49	22.68	22.37	21.53
		25#0	22.70	22.26	21.55
		25#12	22.66	22.23	21.66
		25#24	22.71	22.19	21.60
		50#0	22.61	22.15	21.57
	16-QAM	1#0	22.64	22.17	21.54
		1#24	22.72	22.18	21.55
		1#49	22.72	22.15	21.47
		25#0	22.80	22.17	21.45
		25#12	22.82	22.10	21.46
		25#24	22.93	22.10	21.40
		50#0	22.98	22.06	21.38

LTE Band 7

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.74	21.86	21.84
		1#12	22.07	21.93	21.12
		1#24	21.82	21.20	21.54
		12#0	21.67	21.67	21.27
		12#6	22.14	21.38	21.20
		12#11	21.32	21.93	21.59
		25#0	21.45	21.75	21.75
	16-QAM	1#0	22.18	21.84	21.03
		1#12	21.90	21.84	21.32
		1#24	21.68	21.17	21.49
		12#0	22.20	22.01	21.40
		12#6	21.39	21.89	22.01
		12#11	21.95	21.35	21.57
		25#0	21.43	21.16	21.05
10M	QPSK	1#0	21.90	21.72	21.84
		1#24	21.44	21.29	22.32
		1#49	21.06	22.14	22.18
		25#0	21.21	21.45	22.35
		25#12	21.40	21.31	22.13
		25#24	21.61	21.91	21.36
		50#0	21.55	21.50	22.08
	16-QAM	1#0	21.76	21.20	21.66
		1#24	21.05	21.62	21.44
		1#49	21.34	21.61	21.46
		25#0	21.40	21.94	21.63
		25#12	21.43	21.89	21.70
		25#24	21.69	21.34	22.03
		50#0	21.46	22.09	22.22

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	21.44	21.23	21.37
		1#37	21.72	21.13	21.81
		1#74	20.95	21.92	21.43
		36#0	21.12	21.42	21.56
		36#17	21.37	21.42	22.03
		36#35	21.28	21.19	22.10
		75#0	21.51	22.05	21.55
	16-QAM	1#0	21.67	21.53	21.58
		1#37	21.39	21.46	21.49
		1#74	21.04	22.05	21.74
		36#0	21.61	21.67	21.88
		36#17	21.29	21.65	21.34
		36#35	21.43	21.74	21.88
		75#0	20.75	21.71	22.02
20M	QPSK	1#0	21.13	21.83	21.80
		1#49	21.79	21.42	20.99
		1#99	21.66	21.30	21.53
		50#0	21.61	21.81	21.40
		50#24	20.93	21.67	21.47
		50#49	21.27	20.91	21.64
		100#0	21.73	21.25	21.07
	16-QAM	1#0	21.38	21.06	21.10
		1#49	21.78	21.89	21.46
		1#99	21.16	20.95	20.87
		50#0	21.33	20.98	20.88
		50#24	21.00	20.97	21.06
		50#49	20.99	21.39	21.23
		100#0	21.73	20.93	21.37

LTE Band 12

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	21.68	21.98	21.85
		1#3	21.54	21.91	21.92
		1#5	21.52	21.92	21.89
		3#0	21.44	21.94	21.96
		3#1	21.37	21.87	21.88
		3#3	21.37	21.80	21.84
		6#0	21.31	21.90	21.90
	16-QAM	1#0	21.23	21.89	21.86
		1#3	21.15	21.92	21.77
		1#5	21.25	21.93	21.88
		3#0	21.15	21.84	21.74
		3#1	21.16	21.92	21.72
		3#3	21.25	21.99	21.69
		6#0	21.29	22.04	21.72
3M	QPSK	1#0	21.23	22.10	21.65
		1#7	21.24	22.16	21.68
		1#14	21.13	22.17	21.70
		8#0	21.22	22.26	21.75
		8#4	21.16	22.26	21.73
		8#7	21.18	22.19	21.67
		15#0	21.07	22.16	21.67
	16-QAM	1#0	21.01	22.17	21.71
		1#7	21.06	22.13	21.75
		1#14	21.00	22.05	21.77
		8#0	21.00	21.99	21.80
		8#4	21.09	21.95	21.70
		8#7	21.11	21.84	21.70
		15#0	21.10	21.86	21.79

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.20	21.93	21.80
		1#12	21.23	21.94	21.82
		1#24	21.29	21.90	21.81
		12#0	21.29	22.02	21.92
		12#6	21.28	22.11	21.87
		12#11	21.29	22.10	21.93
		25#0	21.32	22.03	21.84
	16-QAM	1#0	21.31	21.96	21.80
		1#12	21.30	22.04	21.69
		1#24	21.37	21.96	21.66
		12#0	21.31	22.07	21.58
		12#6	21.23	22.12	21.54
		12#11	21.12	22.13	21.56
		25#0	21.14	22.10	21.59
10M	QPSK	1#0	21.18	22.10	21.69
		1#24	21.16	22.14	21.78
		1#49	21.22	22.20	21.83
		25#0	21.15	22.25	21.94
		25#12	21.13	22.31	22.07
		25#24	21.07	22.33	22.03
		50#0	20.94	22.35	22.02
	16-QAM	1#0	20.85	22.36	22.05
		1#24	20.90	22.41	22.14
		1#49	20.85	22.36	22.13
		25#0	20.81	22.28	22.17
		25#12	20.82	22.23	22.19
		25#24	20.75	22.23	22.09
		50#0	20.75	22.20	22.13

LTE Band 13

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.54	21.25	21.81
		1#12	21.78	21.92	21.71
		1#24	21.69	21.96	21.20
		12#0	22.06	21.46	21.95
		12#6	21.81	21.81	21.85
		12#11	21.77	21.30	21.32
		25#0	21.43	21.58	21.17
	16-QAM	1#0	21.60	21.82	21.77
		1#12	21.94	21.86	21.38
		1#24	22.19	21.39	21.42
		12#0	22.03	21.14	21.18
		12#6	22.22	21.52	21.28
		12#11	22.16	21.78	22.00
		25#0	21.86	21.35	21.75
10M	QPSK	1#0	\	21.17	\
		1#24	\	21.85	\
		1#49	\	22.14	\
		25#0	\	21.54	\
		25#12	\	21.62	\
		25#24	\	21.50	\
		50#0	\	21.82	\
	16-QAM	1#0	\	21.41	\
		1#24	\	21.95	\
		1#49	\	22.00	\
		25#0	\	21.87	\
		25#12	\	21.29	\
		25#24	\	21.70	\
		50#0	\	21.61	\

LTE Band 25

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	21.98	21.85	21.94
		1#3	21.98	21.80	21.96
		1#5	21.89	21.82	22.02
		3#0	21.81	21.83	21.95
		3#1	21.84	21.82	21.87
		3#3	21.84	21.85	21.78
		6#0	21.89	21.88	21.90
	16-QAM	1#0	21.83	21.83	21.93
		1#3	21.90	21.86	21.87
		1#5	21.79	21.76	21.91
		3#0	21.78	21.67	21.84
		3#1	21.70	21.65	21.78
		3#3	21.56	21.66	21.73
		6#0	21.48	21.72	21.77
3M	QPSK	1#0	21.38	21.82	21.65
		1#7	21.34	21.80	21.66
		1#14	21.22	21.81	21.62
		8#0	21.32	21.82	21.55
		8#4	21.33	21.85	21.56
		8#7	21.46	21.86	21.69
		15#0	21.45	21.89	21.58
	16-QAM	1#0	21.49	21.85	21.61
		1#7	21.50	21.81	21.62
		1#14	21.41	21.83	21.62
		8#0	21.46	21.96	21.73
		8#4	21.46	21.95	21.77
		8#7	21.55	21.96	21.81
		15#0	21.46	21.90	21.83

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.48	21.92	21.82
		1#12	21.52	21.97	21.75
		1#24	21.47	22.04	21.74
		12#0	21.40	21.94	21.77
		12#6	21.36	21.83	21.75
		12#11	21.32	21.85	21.73
		25#0	21.36	21.82	21.61
	16-QAM	1#0	21.38	21.85	21.58
		1#12	21.37	21.90	21.63
		1#24	21.44	21.89	21.64
		12#0	21.43	22.01	21.56
		12#6	21.46	21.98	21.51
		12#11	21.49	21.99	21.60
		25#0	21.51	22.06	21.50
10M	QPSK	1#0	21.50	22.00	21.44
		1#24	21.38	22.05	21.51
		1#49	21.34	22.08	21.43
		25#0	21.30	22.07	21.41
		25#12	21.41	22.08	21.44
		25#24	21.49	22.08	21.52
		50#0	21.47	22.12	21.46
	16-QAM	1#0	21.38	22.18	21.38
		1#24	21.40	22.16	21.39
		1#49	21.36	22.23	21.44
		25#0	21.27	22.25	21.34
		25#12	21.30	22.31	21.41
		25#24	21.25	22.21	21.40
		50#0	21.19	22.20	21.44

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
15M	QPSK	1#0	21.23	22.22	21.33
		1#37	21.27	22.13	21.35
		1#74	21.18	21.99	21.33
		36#0	21.09	22.01	21.43
		36#17	21.18	21.97	21.41
		36#35	21.23	22.04	21.38
		75#0	21.23	22.07	21.42
	16-QAM	1#0	21.26	22.02	21.44
		1#37	21.27	22.03	21.46
		1#74	21.16	22.02	21.38
		36#0	21.15	22.02	21.45
		36#17	21.20	21.97	21.41
		36#35	21.30	21.93	21.48
		75#0	21.37	21.97	21.48
20M	QPSK	1#0	21.46	21.98	21.39
		1#49	21.35	22.04	21.43
		1#99	21.35	21.95	21.41
		50#0	21.42	22.08	21.30
		50#24	21.34	22.09	21.32
		50#49	21.31	22.06	21.40
		100#0	21.29	21.98	21.50
	16-QAM	1#0	21.30	22.06	21.48
		1#49	21.36	21.99	21.37
		1#99	21.39	22.04	21.32
		50#0	21.42	22.01	21.38
		50#24	21.38	22.05	21.31
		50#49	21.33	21.94	21.22
		100#0	21.23	21.94	21.23

LTE Band 26

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
1.4M	QPSK	1#0	21.74	21.88	21.97
		1#3	21.63	21.86	21.94
		1#5	21.61	21.94	21.93
		3#0	21.68	22.05	22.06
		3#1	21.80	22.08	22.09
		3#3	21.80	22.06	22.06
		6#0	21.73	22.05	22.05
	16-QAM	1#0	21.78	22.15	22.12
		1#3	21.76	22.20	22.10
		1#5	21.78	22.19	22.17
		3#0	21.74	22.24	22.05
		3#1	21.76	22.26	22.08
		3#3	21.79	22.31	22.12
		6#0	21.77	22.38	22.12
3M	QPSK	1#0	21.77	22.38	22.03
		1#7	21.67	22.44	22.06
		1#14	21.68	22.44	21.98
		8#0	21.65	22.41	21.99
		8#4	21.55	22.42	21.93
		8#7	21.53	22.43	21.88
		15#0	21.54	22.56	21.95
	16-QAM	1#0	21.5	22.68	21.95
		1#7	21.55	22.67	22.06
		1#14	21.61	22.72	21.98
		8#0	21.63	22.72	22.01
		8#4	21.60	22.77	22.02
		8#7	21.60	22.76	22.02
		15#0	21.60	22.84	22.16

Test Bandwidth	Test Modulation	Resource Block & RB offset	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
5M	QPSK	1#0	21.52	22.78	22.15
		1#12	21.58	22.75	22.20
		1#24	21.65	22.75	22.22
		12#0	21.52	22.76	22.34
		12#6	21.53	22.67	22.24
		12#11	21.58	22.53	22.25
		25#0	21.56	22.56	22.26
	16-QAM	1#0	21.57	22.52	22.24
		1#12	21.63	22.61	22.20
		1#24	21.59	22.49	22.16
		12#0	21.56	22.47	22.24
		12#6	21.55	22.40	22.16
		12#11	21.61	22.37	22.14
		25#0	21.66	22.27	22.09
10M	QPSK	1#0	21.79	22.21	22.10
		1#24	21.72	22.30	22.02
		1#49	21.70	22.39	21.93
		25#0	21.68	22.43	21.84
		25#12	21.57	22.47	21.90
		25#24	21.52	22.51	21.92
		50#0	21.56	22.49	21.91
	16-QAM	1#0	21.46	22.54	21.88
		1#24	21.41	22.44	21.97
		1#49	21.39	22.49	21.99
		25#0	21.39	22.52	21.90
		25#12	21.48	22.44	22.04
		25#24	21.50	22.47	21.92
		50#0	21.40	22.47	22.05
15M	QPSK	1#0	21.90	21.53	21.58
		1#37	21.94	21.54	21.60
		1#74	21.99	21.67	21.57
		36#0	21.99	21.70	21.64
		36#17	21.92	21.62	21.54
		36#35	21.86	21.67	21.59
		75#0	21.85	21.76	21.59
	16-QAM	1#0	21.93	21.81	21.59
		1#37	22.00	21.86	21.55
		1#74	21.96	21.90	21.52
		36#0	21.88	21.94	21.48
		36#17	21.90	21.91	21.52
		36#35	21.89	21.92	21.58
		75#0	21.94	21.92	21.59

Peak-to-average ratio (PAR):**WCDMA Band V**

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (Rel99)	Low	2.26	≤ 13
	Middle	2.21	≤ 13
	High	2.05	≤ 13
WCDMA (HSDPA)	Low	2.22	≤ 13
	Middle	2.03	≤ 13
	High	2.00	≤ 13
WCDMA (HSUPA)	Low	2.14	≤ 13
	Middle	2.17	≤ 13
	High	1.98	≤ 13
WCDMA (HSPA+)	Low	2.08	≤ 13
	Middle	2.08	≤ 13
	High	2.17	≤ 13

WCDMA Band II

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (Rel99)	Low	2.15	≤ 13
	Middle	2.12	≤ 13
	High	2.21	≤ 13
WCDMA (HSDPA)	Low	1.96	≤ 13
	Middle	2.10	≤ 13
	High	2.04	≤ 13
WCDMA (HSUPA)	Low	2.14	≤ 13
	Middle	2.20	≤ 13
	High	1.97	≤ 13
WCDMA (HSPA+)	Low	2.15	≤ 13
	Middle	2.01	≤ 13
	High	2.22	≤ 13

WCDMA Band IV

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (Rel99)	Low	2.04	≤ 13
	Middle	2.22	≤ 13
	High	2.26	≤ 13
WCDMA (HSDPA)	Low	2.23	≤ 13
	Middle	2.04	≤ 13
	High	2.22	≤ 13
WCDMA (HSUPA)	Low	2.17	≤ 13
	Middle	2.23	≤ 13
	High	2.00	≤ 13
WCDMA (HSPA+)	Low	2.24	≤ 13
	Middle	2.10	≤ 13
	High	2.03	≤ 13

LTE Band 2

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
QPSK	1 RB	20M	3.19	3.06	3.09	≤ 13
	100 RB		5.05	5.02	5.12	≤ 13
16-QAM	1 RB	20M	4.17	4.18	4.06	≤ 13
	100 RB		6.04	6.11	6.04	≤ 13

LTE Band 4

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	3.10	3.17	3.10	≤ 13
	100 RB		5.12	5.02	5.09	≤ 13
16-QAM	1 RB	20M	4.09	4.09	4.18	≤ 13
	100 RB		6.04	6.18	6.06	≤ 13

LTE Band 5

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	3.06	3.03	3.20	≤ 13
	50 RB		5.13	5.11	5.16	≤ 13
16-QAM	1 RB	10M	4.14	4.06	4.15	≤ 13
	50 RB		6.13	6.00	6.15	≤ 13

LTE Band 7

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	3.15	3.13	3.12	≤ 13
	100 RB		5.16	5.18	5.04	≤ 13
16-QAM	1 RB	20M	4.14	4.04	4.14	≤ 13
	100 RB		6.11	6.12	6.18	≤ 13

LTE Band 12

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	3.01	3.01	3.08	13
	50 RB		5.03	5.17	5.12	13
16-QAM	1 RB	10M	4.10	4.01	4.18	13
	50 RB		6.13	6.08	6.18	13

LTE Band 13

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	\	3.15	\	13
	50 RB		\	5.20	\	13
16-QAM	1 RB	10M	\	4.02	\	13
	50 RB		\	6.11	\	13

LTE Band 25

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	3.02	3.11	3.18	13
	100 RB		5.01	5.09	5.17	13
16-QAM	1 RB	20M	4.08	4.13	4.12	13
	100 RB		6.05	6.16	6.17	13

LTE Band 26

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	15M	3.06	3.01	3.18	13
	75 RB		5.08	5.18	5.07	13
16-QAM	1 RB	15M	4.19	4.18	4.08	13
	75 RB		6.07	6.10	6.08	13

Radiated Power:**WCDMA Mode**

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Band V, Low Channel(ERP)										
826.40	87.71	147	200	H	22.85	0.63	-1.17	21.05	38.45	17.40
826.40	88.94	29	150	V	24.08	0.63	-1.17	22.28	38.45	16.17
WCDMA Band II, Low Channel(EIRP)										
1852.40	86.77	164	200	H	16.64	0.84	8.76	24.56	33	8.44
1852.40	85.49	144	150	V	15.36	0.84	8.76	23.28	33	9.72
WCDMA Band IV, Low Channel(EIRP)										
1712.40	84.34	199	200	H	11.75	0.84	8.57	19.48	30	10.52
1712.40	85.97	221	150	V	13.38	0.84	8.57	21.11	30	8.89

WCDMA Mode

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Band V, Middle Channel(ERP)										
836.60	87.82	207	200	H	22.96	0.63	-1.14	21.19	38.45	17.26
836.60	88.95	308	150	V	24.09	0.63	-1.14	22.32	38.45	16.13
WCDMA Band II, Middle Channel(EIRP)										
1880.00	85.76	350	200	H	15.63	0.85	8.81	23.59	33	9.41
1880.00	85.34	118	150	V	15.21	0.85	8.81	23.17	33	9.83
WCDMA Band IV, Middle Channel(EIRP)										
1732.60	85.01	291	200	H	12.42	0.84	8.57	20.15	30	9.85
1732.60	84.97	43	150	V	12.38	0.84	8.57	20.11	30	9.89

WCDMA Mode

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
WCDMA Band V, High Channel(ERP)										
846.60	87.65	17	200	H	22.79	0.63	-1.11	21.05	38.45	17.40
846.60	86.38	299	150	V	21.52	0.63	-1.11	19.78	38.45	18.67
WCDMA Band II, High Channel(EIRP)										
1907.60	86.86	215	200	H	16.73	0.85	8.85	24.73	33	8.27
1907.60	87.30	66	150	V	17.17	0.85	8.85	25.17	33	7.83
WCDMA Band IV, High Channel(EIRP)										
1752.60	86.20	312	200	H	13.61	0.84	8.57	21.34	30	8.66
1752.60	85.06	302	150	V	12.47	0.84	8.57	20.20	30	9.80

EIRP:**LTE Band 2**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Low Channel								
1850.7	H	89.56	14.83	0.84	8.76	22.75	33	10.25
1850.7	V	88.15	13.42	0.84	8.76	21.34	33	11.66
16-QAM 1.4M BW Low Channel								
1850.7	H	89.07	14.34	0.84	8.76	22.26	33	10.74
1850.7	V	88.46	13.73	0.84	8.76	21.65	33	11.35
QPSK 3M BW Low Channel								
1851.5	H	89.94	15.21	0.84	8.76	23.13	33	9.87
1851.5	V	88.52	13.79	0.84	8.76	21.71	33	11.29
16-QAM 3M BW Low Channel								
1851.5	H	89.28	14.55	0.84	8.76	22.47	33	10.53
1851.5	V	88.48	13.75	0.84	8.76	21.67	33	11.33
QPSK 5M BW Low Channel								
1852.5	H	89.62	14.89	0.84	8.76	22.81	33	10.19
1852.5	V	88.10	13.37	0.84	8.76	21.29	33	11.71
16-QAM 5M BW Low Channel								
1852.5	H	89.38	14.65	0.84	8.76	22.57	33	10.43
1852.5	V	88.89	14.16	0.84	8.76	22.08	33	10.92
QPSK 10M BW Low Channel								
1855.0	H	89.67	14.94	0.84	8.77	22.87	33	10.13
1855.0	V	88.59	13.86	0.84	8.77	21.79	33	11.21
16-QAM 10M BW Low Channel								
1855.0	H	89.00	14.27	0.84	8.77	22.20	33	10.80
1855.0	V	88.56	13.83	0.84	8.77	21.76	33	11.24
QPSK 15M BW Low Channel								
1857.5	H	89.85	15.12	0.84	8.77	23.05	33	9.95
1857.5	V	88.91	14.18	0.84	8.77	22.11	33	10.89
16-QAM 15M BW Low Channel								
1857.5	H	89.67	14.94	0.84	8.77	22.87	33	10.13
1857.5	V	88.69	13.96	0.84	8.77	21.89	33	11.11

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW Low Channel								
1860.0	H	89.11	14.38	0.84	8.78	22.32	33	10.68
1860.0	V	88.23	13.50	0.84	8.78	21.44	33	11.56
16-QAM 20M BW Low Channel								
1860.0	H	89.06	14.33	0.84	8.78	22.27	33	10.73
1860.0	V	88.73	14.00	0.84	8.78	21.94	33	11.06

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Middle Channel								
1880.0	H	89.11	14.38	0.85	8.81	22.34	33	10.66
1880.0	V	88.59	13.86	0.85	8.81	21.82	33	11.18
16-QAM 1.4M BW Middle Channel								
1880.0	H	89.72	14.99	0.85	8.81	22.95	33	10.05
1880.0	V	88.22	13.49	0.85	8.81	21.45	33	11.55
QPSK 3M BW Middle Channel								
1880.0	H	89.55	14.82	0.85	8.81	22.78	33	10.22
1880.0	V	88.64	13.91	0.85	8.81	21.87	33	11.13
16-QAM 3M BW Middle Channel								
1880.0	H	90.00	15.27	0.85	8.81	23.23	33	9.77
1880.0	V	88.54	13.81	0.85	8.81	21.77	33	11.23
QPSK 5M BW Middle Channel								
1880.0	H	89.72	14.99	0.85	8.81	22.95	33	10.05
1880.0	V	88.67	13.94	0.85	8.81	21.90	33	11.10
16-QAM 5M BW Middle Channel								
1880.0	H	89.04	14.31	0.85	8.81	22.27	33	10.73
1880.0	V	88.97	14.24	0.85	8.81	22.20	33	10.80
QPSK 10M BW Middle Channel								
1880.0	H	89.43	14.70	0.85	8.81	22.66	33	10.34
1880.0	V	88.77	14.04	0.85	8.81	22.00	33	11.00
16-QAM 10M BW Middle Channel								
1880.0	H	89.37	14.64	0.85	8.81	22.60	33	10.40
1880.0	V	88.08	13.35	0.85	8.81	21.31	33	11.69
QPSK 15M BW Middle Channel								
1880.0	H	89.76	15.03	0.85	8.81	22.99	33	10.01
1880.0	V	88.31	13.58	0.85	8.81	21.54	33	11.46
16-QAM 15M BW Middle Channel								
1880.0	H	89.85	15.12	0.85	8.81	23.08	33	9.92
1880.0	V	88.08	13.35	0.85	8.81	21.31	33	11.69

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW Middle Channel								
1880.0	H	89.14	14.41	0.85	8.81	22.37	33	10.63
1880.0	V	88.06	13.33	0.85	8.81	21.29	33	11.71
16-QAM 20M BW Middle Channel								
1880.0	H	89.23	14.50	0.85	8.81	22.46	33	10.54
1880.0	V	88.53	13.80	0.85	8.81	21.76	33	11.24

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW High Channel								
1909.3	H	89.94	15.21	0.85	8.85	23.21	33	9.79
1909.3	V	88.35	13.62	0.85	8.85	21.62	33	11.38
16-QAM 1.4M BW High Channel								
1909.3	H	90.00	15.27	0.85	8.85	23.27	33	9.73
1909.3	V	88.67	13.94	0.85	8.85	21.94	33	11.06
QPSK 3M BW High Channel								
1908.5	H	89.35	14.62	0.85	8.85	22.62	33	10.38
1908.5	V	88.03	13.30	0.85	8.85	21.30	33	11.70
16-QAM 3M BW Low Channel								
1908.5	H	89.49	14.76	0.85	8.85	22.76	33	10.24
1908.5	V	88.52	13.79	0.85	8.85	21.79	33	11.21
QPSK 5M BW High Channel								
1907.5	H	89.18	14.45	0.85	8.85	22.45	33	10.55
1907.5	V	88.11	13.38	0.85	8.85	21.38	33	11.62
16-QAM 5M BW High Channel								
1907.5	H	89.47	14.74	0.85	8.85	22.74	33	10.26
1907.5	V	88.17	13.44	0.85	8.85	21.44	33	11.56
QPSK 10M BW High Channel								
1905.0	H	89.86	15.13	0.85	8.85	23.13	33	9.87
1905.0	V	88.61	13.88	0.85	8.85	21.88	33	11.12
16-QAM 10M BW High Channel								
1905.0	H	89.07	14.34	0.85	8.85	22.34	33	10.66
1905.0	V	88.19	13.46	0.85	8.85	21.46	33	11.54
QPSK 15M BW High Channel								
1902.5	H	89.20	14.47	0.85	8.84	22.46	33	10.54
1902.5	V	88.98	14.25	0.85	8.84	22.24	33	10.76
16-QAM 15M BW High Channel								
1902.5	H	89.62	14.89	0.85	8.84	22.88	33	10.12
1902.5	V	88.11	13.38	0.85	8.84	21.37	33	11.63

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW High Channel								
1900.0	H	89.24	14.51	0.85	8.84	22.50	33	10.50
1900.0	V	88.41	13.68	0.85	8.84	21.67	33	11.33
16-QAM 20M BW High Channel								
1900.0	H	89.75	15.02	0.85	8.84	23.01	33	9.99
1900.0	V	88.39	13.66	0.85	8.84	21.65	33	11.35

LTE Band 4

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Low Channel								
1710.7	H	89.60	13.85	0.84	8.54	21.55	30	8.45
1710.7	V	88.71	12.96	0.84	8.54	20.66	30	9.34
16-QAM 1.4M BW Low Channel								
1710.7	H	89.55	13.80	0.84	8.54	21.50	30	8.50
1710.7	V	88.62	12.87	0.84	8.54	20.57	30	9.43
QPSK 3M BW Low Channel								
1711.5	H	89.83	14.08	0.84	8.54	21.78	30	8.22
1711.5	V	88.42	12.67	0.84	8.54	20.37	30	9.63
16-QAM 3M BW Low Channel								
1711.5	H	89.18	13.43	0.84	8.54	21.13	30	8.87
1711.5	V	88.07	12.32	0.84	8.54	20.02	30	9.98
QPSK 5M BW Low Channel								
1712.5	H	89.53	13.78	0.84	8.54	21.48	30	8.52
1712.5	V	88.61	12.86	0.84	8.54	20.56	30	9.44
16-QAM 5M BW Low Channel								
1712.5	H	89.06	13.31	0.84	8.54	21.01	30	8.99
1712.5	V	88.25	12.50	0.84	8.54	20.20	30	9.80
QPSK 10M BW Low Channel								
1715.0	H	89.62	13.87	0.84	8.54	21.57	30	8.43
1715.0	V	88.06	12.31	0.84	8.54	20.01	30	9.99
16-QAM 10M BW Low Channel								
1715.0	H	89.22	13.47	0.84	8.54	21.17	30	8.83
1715.0	V	88.56	12.81	0.84	8.54	20.51	30	9.49
QPSK 15M BW Low Channel								
1717.5	H	89.19	13.44	0.84	8.55	21.15	30	8.85
1717.5	V	88.23	12.48	0.84	8.55	20.19	30	9.81
16-QAM 15M BW Low Channel								
1717.5	H	89.99	14.24	0.84	8.55	21.95	30	8.05
1717.5	V	88.54	12.79	0.84	8.55	20.50	30	9.50

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW Low Channel								
1720.0	H	89.90	14.15	0.84	8.55	21.86	30	8.14
1720.0	V	88.02	12.27	0.84	8.55	19.98	30	10.02
16-QAM 20M BW Low Channel								
1720.0	H	89.75	14.00	0.84	8.55	21.71	30	8.29
1720.0	V	88.80	13.05	0.84	8.55	20.76	30	9.24

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Middle Channel								
1732.5	H	89.84	14.09	0.84	8.57	21.82	30	8.18
1732.5	V	88.71	12.96	0.84	8.57	20.69	30	9.31
16-QAM 1.4M BW Middle Channel								
1732.5	H	89.89	14.14	0.84	8.57	21.87	30	8.13
1732.5	V	88.61	12.86	0.84	8.57	20.59	30	9.41
QPSK 3M BW Middle Channel								
1732.5	H	89.21	13.46	0.84	8.57	21.19	30	8.81
1732.5	V	88.79	13.04	0.84	8.57	20.77	30	9.23
16-QAM 3M BW Middle Channel								
1732.5	H	89.82	14.07	0.84	8.57	21.80	30	8.20
1732.5	V	88.73	12.98	0.84	8.57	20.71	30	9.29
QPSK 5M BW Middle Channel								
1732.5	H	89.11	13.36	0.84	8.57	21.09	30	8.91
1732.5	V	88.77	13.02	0.84	8.57	20.75	30	9.25
16-QAM 5M BW Middle Channel								
1732.5	H	89.52	13.77	0.84	8.57	21.50	30	8.50
1732.5	V	88.87	13.12	0.84	8.57	20.85	30	9.15
QPSK 10M BW Middle Channel								
1732.5	H	89.85	14.1	0.84	8.57	21.83	30	8.17
1732.5	V	88.86	13.11	0.84	8.57	20.84	30	9.16
16-QAM 10M BW Middle Channel								
1732.5	H	89.2	13.45	0.84	8.57	21.18	30	8.82
1732.5	V	88.31	12.56	0.84	8.57	20.29	30	9.71
QPSK 15M BW Middle Channel								
1732.5	H	89.22	13.47	0.84	8.57	21.20	30	8.80
1732.5	V	88.61	12.86	0.84	8.57	20.59	30	9.41
16-QAM 15M BW Middle Channel								
1732.5	H	89.44	13.69	0.84	8.57	21.42	30	8.58
1732.5	V	88.97	13.22	0.84	8.57	20.95	30	9.05

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW Middle Channel								
1732.5	H	89.70	13.95	0.84	8.57	21.68	30	8.32
1732.5	V	88.31	12.56	0.84	8.57	20.29	30	9.71
16-QAM 20M BW Middle Channel								
1732.5	H	89.46	13.71	0.84	8.57	21.44	30	8.56
1732.5	V	88.92	13.17	0.84	8.57	20.90	30	9.10

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW High Channel								
1754.3	H	89.43	13.68	0.84	8.61	21.45	30	8.55
1754.3	V	88.44	12.69	0.84	8.61	20.46	30	9.54
16-QAM 1.4M BW High Channel								
1754.3	H	89.15	13.40	0.84	8.61	21.17	30	8.83
1754.3	V	88.13	12.38	0.84	8.61	20.15	30	9.85
QPSK 3M BW High Channel								
1753.5	H	89.76	14.01	0.84	8.60	21.77	30	8.23
1753.5	V	88.82	13.07	0.84	8.60	20.83	30	9.17
16-QAM 3M BW High Channel								
1753.5	H	89.41	13.66	0.84	8.60	21.42	30	8.58
1753.5	V	88.13	12.38	0.84	8.60	20.14	30	9.86
QPSK 5M BW High Channel								
1752.5	H	89.21	13.46	0.84	8.60	21.22	30	8.78
1752.5	V	88.86	13.11	0.84	8.60	20.87	30	9.13
16-QAM 5M BW High Channel								
1752.5	H	89.61	13.86	0.84	8.60	21.62	30	8.38
1752.5	V	88.25	12.50	0.84	8.60	20.26	30	9.74
QPSK 10M BW High Channel								
1750.0	H	89.04	13.29	0.84	8.60	21.05	30	8.95
1750.0	V	88.56	12.81	0.84	8.60	20.57	30	9.43
16-QAM 10M BW High Channel								
1750.0	H	89.28	13.53	0.84	8.60	21.29	30	8.71
1750.0	V	88.45	12.70	0.84	8.60	20.46	30	9.54
QPSK 15M BW High Channel								
1747.5	H	89.09	13.34	0.84	8.60	21.10	30	8.90
1747.5	V	88.34	12.59	0.84	8.60	20.35	30	9.65
16-QAM 15M BW High Channel								
1747.5	H	89.46	13.71	0.84	8.60	21.47	30	8.53
1747.5	V	88.98	13.23	0.84	8.60	20.99	30	9.01

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW High Channel								
1745.0	H	89.35	13.60	0.84	8.59	21.35	30	8.65
1745.0	V	88.41	12.66	0.84	8.59	20.41	30	9.59
16-QAM 20M High Channel								
1745.0	H	89.61	13.86	0.84	8.59	21.61	30	8.39
1745.0	V	88.81	13.06	0.84	8.59	20.81	30	9.19

LTE Band 5

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Low Channel								
824.7	H	90.99	27.12	0.62	-1.18	25.32	38.45	13.13
824.7	V	88.91	25.04	0.62	-1.18	23.24	38.45	15.21
16-QAM 1.4M BW Low Channel								
824.7	H	90.18	26.31	0.62	-1.18	24.51	38.45	13.94
824.7	V	88.27	24.40	0.62	-1.18	22.60	38.45	15.85
QPSK 3M BW Low Channel								
825.5	H	90.46	26.59	0.63	-1.17	24.79	38.45	13.66
825.5	V	88.95	25.08	0.63	-1.17	23.28	38.45	15.17
16-QAM 3M BW Low Channel								
825.5	H	90.54	26.67	0.63	-1.17	24.87	38.45	13.58
825.5	V	88.39	24.52	0.63	-1.17	22.72	38.45	15.73
QPSK 5M BW Low Channel								
826.5	H	90.99	27.12	0.63	-1.17	25.32	38.45	13.13
826.5	V	88.17	24.30	0.63	-1.17	22.50	38.45	15.95
16-QAM 5M BW Low Channel								
826.5	H	90.87	27.00	0.63	-1.17	25.20	38.45	13.25
826.5	V	88.97	25.10	0.63	-1.17	23.30	38.45	15.15
QPSK 10M BW Low Channel								
829.0	H	90.41	26.54	0.63	-1.16	24.75	38.45	13.70
829.0	V	88.16	24.29	0.63	-1.16	22.50	38.45	15.95
16-QAM 10M BW Low Channel								
829.0	H	90.30	26.43	0.63	-1.16	24.64	38.45	13.81
829.0	V	88.95	25.08	0.63	-1.16	23.29	38.45	15.16

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Middle Channel								
836.5	H	90.01	26.14	0.63	-1.14	24.37	38.45	14.08
836.5	V	88.81	24.94	0.63	-1.14	23.17	38.45	15.28
16-QAM 1.4M BW Middle Channel								
836.5	H	90.89	27.02	0.63	-1.14	25.25	38.45	13.20
836.5	V	88.13	24.26	0.63	-1.14	22.49	38.45	15.96
QPSK 3M BW Middle Channel								
836.5	H	90.90	27.03	0.63	-1.14	25.26	38.45	13.19
836.5	V	88.86	24.99	0.63	-1.14	23.22	38.45	15.23
16-QAM 3M BW Middle Channel								
836.5	H	90.70	26.83	0.63	-1.14	25.06	38.45	13.39
836.5	V	88.31	24.44	0.63	-1.14	22.67	38.45	15.78
QPSK 5M BW Middle Channel								
836.5	H	90.55	26.68	0.63	-1.14	24.91	38.45	13.54
836.5	V	88.95	25.08	0.63	-1.14	23.31	38.45	15.14
16-QAM 5M BW Middle Channel								
836.5	H	90.62	26.75	0.63	-1.14	24.98	38.45	13.47
836.5	V	88.42	24.55	0.63	-1.14	22.78	38.45	15.67
QPSK 10M BW Middle Channel								
836.5	H	90.93	27.06	0.63	-1.14	25.29	38.45	13.16
836.5	V	88.63	24.76	0.63	-1.14	22.99	38.45	15.46
16-QAM 10M BW Middle Channel								
836.5	H	90.09	26.22	0.63	-1.14	24.45	38.45	14.00
836.5	V	88.97	25.10	0.63	-1.14	23.33	38.45	15.12

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW High Channel								
848.3	H	90.47	26.60	0.63	-1.11	24.86	38.45	13.59
848.3	V	88.71	24.84	0.63	-1.11	23.10	38.45	15.35
16-QAM 1.4M BW High Channel								
848.3	H	90.71	26.84	0.63	-1.11	25.10	38.45	13.35
848.3	V	88.86	24.99	0.63	-1.11	23.25	38.45	15.20
QPSK 3M BW High Channel								
847.5	H	90.20	26.33	0.63	-1.11	24.59	38.45	13.86
847.5	V	88.85	24.98	0.63	-1.11	23.24	38.45	15.21
16-QAM 3M BW High Channel								
847.5	H	90.97	27.1	0.63	-1.11	25.36	38.45	13.09
847.5	V	88.47	24.6	0.63	-1.11	22.86	38.45	15.59
QPSK 5M BW High Channel								
846.5	H	90.62	26.75	0.63	-1.11	25.01	38.45	13.44
846.5	V	88.11	24.24	0.63	-1.11	22.50	38.45	15.95
16-QAM 5M BW High Channel								
846.5	H	90.95	27.08	0.63	-1.11	25.34	38.45	13.11
846.5	V	88.46	24.59	0.63	-1.11	22.85	38.45	15.60
QPSK 10M BW High Channel								
844.0	H	90.89	27.02	0.63	-1.12	25.27	38.45	13.18
844.0	V	88.59	24.72	0.63	-1.12	22.97	38.45	15.48
16-QAM 10M BW High Channel								
844.0	H	90.57	26.70	0.63	-1.12	24.95	38.45	13.50
844.0	V	88.68	24.81	0.63	-1.12	23.06	38.45	15.39

EIRP:**LTE Band 7**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 5M BW Low Channel								
2502.5	H	86.73	10.84	0.89	10.10	20.05	33	12.95
2502.5	V	86.44	10.55	0.89	10.10	19.76	33	13.24
16-QAM 5M BW Low Channel								
2502.5	H	86.89	11.00	0.89	10.10	20.21	33	12.79
2502.5	V	86.16	10.27	0.89	10.10	19.48	33	13.52
QPSK 10M BW Low Channel								
2505.0	H	86.01	10.12	0.89	10.09	19.32	33	13.68
2505.0	V	86.99	11.10	0.89	10.09	20.30	33	12.70
16-QAM 10M BW Low Channel								
2505.0	H	86.30	10.41	0.89	10.09	19.61	33	13.39
2505.0	V	86.42	10.53	0.89	10.09	19.73	33	13.27
QPSK 15M BW Low Channel								
2507.5	H	86.78	10.89	0.89	10.09	20.09	33	12.91
2507.5	V	86.86	10.97	0.89	10.09	20.17	33	12.83
16-QAM 15M BW Low Channel								
2507.5	H	86.06	10.17	0.89	10.09	19.37	33	13.63
2507.5	V	86.49	10.60	0.89	10.09	19.80	33	13.20
QPSK 20M BW Low Channel								
2510.0	H	86.54	10.65	0.89	10.09	19.85	33	13.15
2510.0	V	86.46	10.57	0.89	10.09	19.77	33	13.23
16-QAM 20M BW Low Channel								
2510.0	H	86.72	10.83	0.89	10.09	20.03	33	12.97
2510.0	V	86.76	10.87	0.89	10.09	20.07	33	12.93

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 5M BW Middle Channel								
2535.0	H	86.68	10.79	0.89	10.05	19.95	33	13.05
2535.0	V	86.97	11.08	0.89	10.05	20.24	33	12.76
16-QAM 5M BW Middle Channel								
2535.0	H	86.58	10.69	0.89	10.05	19.85	33	13.15
2535.0	V	86.92	11.03	0.89	10.05	20.19	33	12.81
QPSK 10M BW Middle Channel								
2535.0	H	86.46	10.57	0.89	10.05	19.73	33	13.27
2535.0	V	86.34	10.45	0.89	10.05	19.61	33	13.39
16-QAM 10M BW Middle Channel								
2535.0	H	86.03	10.14	0.89	10.05	19.30	33	13.70
2535.0	V	86.87	10.98	0.89	10.05	20.14	33	12.86
QPSK 15M BW Middle Channel								
2535.0	H	86.50	10.61	0.89	10.05	19.77	33	13.23
2535.0	V	86.09	10.20	0.89	10.05	19.36	33	13.64
16-QAM 15M BW Middle Channel								
2535.0	H	86.96	11.07	0.89	10.05	20.23	33	12.77
2535.0	V	86.11	10.22	0.89	10.05	19.38	33	13.62
QPSK 20M BW Middle Channel								
2535.0	H	86.06	10.17	0.89	10.05	19.33	33	13.67
2535.0	V	86.30	10.41	0.89	10.05	19.57	33	13.43
16-QAM 20M BW Middle Channel								
2535.0	H	86.71	10.82	0.89	10.05	19.98	33	13.02
2535.0	V	86.94	11.05	0.89	10.05	20.21	33	12.79

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK 5M BW High Channel								
2567.5	H	86.57	10.68	0.89	10.01	19.80	33	13.20
2567.5	V	86.38	10.49	0.89	10.01	19.61	33	13.39
16-QAM 5M BW High Channel								
2567.5	H	86.97	11.08	0.89	10.01	20.20	33	12.80
2567.5	V	86.46	10.57	0.89	10.01	19.69	33	13.31
QPSK 10M BW High Channel								
2565.0	H	86.35	10.46	0.89	10.01	19.58	33	13.42
2565.0	V	86.33	10.44	0.89	10.01	19.56	33	13.44
16-QAM 10M BW High Channel								
2565.0	H	86.12	10.23	0.89	10.01	19.35	33	13.65
2565.0	V	86.04	10.15	0.89	10.01	19.27	33	13.73
QPSK 15M BW High Channel								
2562.5	H	86.38	10.49	0.89	10.01	19.61	33	13.39
2562.5	V	86.48	10.59	0.89	10.01	19.71	33	13.29
16-QAM 15M BW High Channel								
2562.5	H	86.76	10.87	0.89	10.01	19.99	33	13.01
2562.5	V	86.57	10.68	0.89	10.01	19.80	33	13.20
QPSK 20M BW High Channel								
2560.0	H	86.07	10.18	0.89	10.02	19.31	33	13.69
2560.0	V	86.75	10.86	0.89	10.02	19.99	33	13.01
16-QAM 20M BW High Channel								
2560.0	H	86.10	10.21	0.89	10.02	19.34	33	13.66
2560.0	V	86.44	10.55	0.89	10.02	19.68	33	13.32

LTE Band 12

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Low Channel								
699.7	H	88.22	23.58	0.62	-1.75	21.21	34.77	13.56
699.7	V	87.79	23.15	0.62	-1.75	20.78	34.77	13.99
16-QAM 1.4M BW Low Channel								
699.7	H	88.19	23.55	0.62	-1.75	21.18	34.77	13.59
699.7	V	87.27	22.63	0.62	-1.75	20.26	34.77	14.51
QPSK 3M BW Low Channel								
700.5	H	88.11	23.43	0.62	-1.75	21.06	34.77	13.71
700.5	V	87.01	22.33	0.62	-1.75	19.96	34.77	14.81
16-QAM 3M BW Low Channel								
700.5	H	88.21	23.53	0.62	-1.75	21.16	34.77	13.61
700.5	V	87.13	22.45	0.62	-1.75	20.08	34.77	14.69
QPSK 5M BW Low Channel								
701.5	H	88.72	24.03	0.62	-1.74	21.67	34.77	13.10
701.5	V	87.82	23.13	0.62	-1.74	20.77	34.77	14.00
16-QAM 5M BW Low Channel								
701.5	H	88.66	23.97	0.62	-1.74	21.61	34.77	13.16
701.5	V	87.60	22.91	0.62	-1.74	20.55	34.77	14.22
QPSK 10M BW Low Channel								
704.0	H	88.85	24.11	0.62	-1.73	21.76	34.77	13.01
704.0	V	87.32	22.58	0.62	-1.73	20.23	34.77	14.54
16-QAM 10M BW Low Channel								
704.0	H	88.10	23.36	0.62	-1.73	21.01	34.77	13.76
704.0	V	87.60	22.86	0.62	-1.73	20.51	34.77	14.26

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Middle Channel								
707.5	H	88.16	24.67	0.62	-1.71	22.34	34.77	12.43
707.5	V	87.16	23.67	0.62	-1.71	21.34	34.77	13.43
16-QAM 1.4M BW Middle Channel								
707.5	H	88.21	24.72	0.62	-1.71	22.39	34.77	12.38
707.5	V	87.34	23.85	0.62	-1.71	21.52	34.77	13.25
QPSK 3M BW Middle Channel								
707.5	H	88.46	24.97	0.62	-1.71	22.64	34.77	12.13
707.5	V	87.36	23.87	0.62	-1.71	21.54	34.77	13.23
16-QAM 3M BW Middle Channel								
707.5	H	88.16	24.67	0.62	-1.71	22.34	34.77	12.43
707.5	V	87.46	23.97	0.62	-1.71	21.64	34.77	13.13
QPSK 5M BW Middle Channel								
707.5	H	88.46	24.97	0.62	-1.71	22.64	34.77	12.13
707.5	V	87.25	23.76	0.62	-1.71	21.43	34.77	13.34
16-QAM 5M BW Middle Channel								
707.5	H	88.19	24.70	0.62	-1.71	22.37	34.77	12.40
707.5	V	87.48	23.99	0.62	-1.71	21.66	34.77	13.11
QPSK 10M BW Middle Channel								
707.5	H	88.49	25.00	0.62	-1.71	22.67	34.77	12.10
707.5	V	87.05	23.56	0.62	-1.71	21.23	34.77	13.54
16-QAM 10M BW Middle Channel								
707.5	H	87.89	24.40	0.62	-1.71	22.07	34.77	12.70
707.5	V	86.30	22.81	0.62	-1.71	20.48	34.77	14.29

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW High Channel								
715.30	H	88.99	24.07	0.62	-1.67	21.78	34.77	12.99
715.30	V	87.84	22.92	0.62	-1.67	20.63	34.77	14.14
16-QAM 1.4M BW High Channel								
715.30	H	88.73	23.81	0.62	-1.67	21.52	34.77	13.25
715.30	V	87.88	22.96	0.62	-1.67	20.67	34.77	14.1
QPSK 3M BW High Channel								
714.50	H	88.66	23.75	0.62	-1.68	21.45	34.77	13.32
714.50	V	87.37	22.46	0.62	-1.68	20.16	34.77	14.61
16-QAM 3M BW High Channel								
714.50	H	88.74	23.83	0.62	-1.68	21.53	34.77	13.24
714.50	V	87.39	22.48	0.62	-1.68	20.18	34.77	14.59
QPSK 5M BW High Channel								
713.50	H	88.15	23.26	0.62	-1.68	20.96	34.77	13.81
713.50	V	87.77	22.88	0.62	-1.68	20.58	34.77	14.19
16-QAM 5M BW High Channel								
713.50	H	88.20	23.31	0.62	-1.68	21.01	34.77	13.76
713.50	V	87.65	22.76	0.62	-1.68	20.46	34.77	14.31
QPSK 10M BW High Channel								
711.00	H	88.95	24.1	0.62	-1.7	21.78	34.77	12.99
711.00	V	87.78	22.93	0.62	-1.7	20.61	34.77	14.16
16-QAM 10M BW High Channel								
711.00	H	88.68	23.83	0.62	-1.7	21.51	34.77	13.26
711.00	V	87.61	22.76	0.62	-1.7	20.44	34.77	14.33

ERP:**LTE Band 13**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5M BW Low Channel								
779.5	H	88.44	19.70	0.65	-1.35	17.70	34.77	17.07
779.5	V	87.75	19.01	0.65	-1.35	17.01	34.77	17.76
16-QAM 5M BW Low Channel								
779.5	H	88.53	19.79	0.65	-1.35	17.79	34.77	16.98
779.5	V	87.75	19.01	0.65	-1.35	17.01	34.77	17.76

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5M BW Middle Channel								
782	H	88.07	19.48	0.65	-1.34	17.49	34.77	17.28
782	V	87.11	18.52	0.65	-1.34	16.53	34.77	18.24
16-QAM 5M BW Middle Channel								
782	H	88.47	19.88	0.65	-1.34	17.89	34.77	16.88
782	V	87.98	19.39	0.65	-1.34	17.40	34.77	17.37
QPSK 10M BW Middle Channel								
782	H	88.72	20.13	0.65	-1.34	18.14	34.77	16.63
782	V	87.26	18.67	0.65	-1.34	16.68	34.77	18.09
16-QAM 10M BW Middle Channel								
782	H	88.87	20.28	0.65	-1.34	18.29	34.77	16.48
782	V	87.87	19.28	0.65	-1.34	17.29	34.77	17.48

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 5M BW High Channel								
784.5	H	88.18	19.74	0.62	-1.63	17.49	34.77	17.28
784.5	V	87.86	19.12	0.62	-1.63	16.87	34.77	17.90
16-QAM 5M BW High Channel								
784.5	H	88.21	19.47	0.62	-1.63	17.22	34.77	17.55
784.5	V	87.38	18.64	0.62	-1.63	16.39	34.77	18.38

LTE Band 25

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Low Channel								
1850.7	H	89.23	10.87	0.84	8.67	18.70	33	14.30
1850.7	V	88.23	9.87	0.84	8.67	17.70	33	15.30
16-QAM 1.4M BW Low Channel								
1850.7	H	89.42	11.06	0.84	8.67	18.89	33	14.11
1850.7	V	88.63	10.27	0.84	8.67	18.10	33	14.90
QPSK 3M BW Low Channel								
1851.5	H	89.87	11.51	0.84	8.76	19.43	33	13.57
1851.5	V	88.68	10.32	0.84	8.76	18.24	33	14.76
16-QAM 3M BW Low Channel								
1851.5	H	89.08	10.72	0.84	8.76	18.64	33	14.36
1851.5	V	88.93	10.57	0.84	8.76	18.49	33	14.51
QPSK 5M BW Low Channel								
1852.5	H	89.79	11.43	0.84	8.76	19.35	33	13.65
1852.5	V	88.95	10.59	0.84	8.76	18.51	33	14.49
16-QAM 5M BW Low Channel								
1852.5	H	89.38	11.02	0.84	8.76	18.94	33	14.06
1852.5	V	88.92	10.56	0.84	8.76	18.48	33	14.52
QPSK 10M BW Low Channel								
1855.0	H	89.91	11.55	0.84	8.77	19.48	33	13.52
1855.0	V	88.60	10.24	0.84	8.77	18.17	33	14.83
16-QAM 10M BW Low Channel								
1855.0	H	89.50	11.14	0.84	8.77	19.07	33	13.93
1855.0	V	88.71	10.35	0.84	8.77	18.28	33	14.72
QPSK 15M BW Low Channel								
1857.5	H	89.79	11.43	0.84	8.77	19.36	33	13.64
1857.5	V	88.01	9.65	0.84	8.77	17.58	33	15.42
16-QAM 15M BW Low Channel								
1857.5	H	89.51	11.15	0.84	8.77	19.08	33	13.92
1857.5	V	88.61	10.25	0.84	8.77	18.18	33	14.82

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW Low Channel								
1860.0	H	89.74	11.38	0.84	8.78	19.32	33	13.68
1860.0	V	88.65	10.29	0.84	8.78	18.23	33	14.77
16-QAM 20M BW Low Channel								
1860.0	H	89.67	11.31	0.84	8.78	19.25	33	13.75
1860.0	V	88.92	10.56	0.84	8.78	18.50	33	14.50

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Middle Channel								
1882.5	H	89.96	12.24	0.85	8.81	20.20	33	12.80
1882.5	V	88.16	10.44	0.85	8.81	18.40	33	14.60
16-QAM 1.4M BW Middle Channel								
1882.5	H	89.73	12.01	0.85	8.81	19.97	33	13.03
1882.5	V	88.39	10.67	0.85	8.81	18.63	33	14.37
QPSK 3M BW Middle Channel								
1882.5	H	89.08	11.36	0.85	8.81	19.32	33	13.68
1882.5	V	88.43	10.71	0.85	8.81	18.67	33	14.33
16-QAM 3M BW Middle Channel								
1882.5	H	89.86	12.14	0.84	8.57	19.87	33	13.13
1882.5	V	88.10	10.38	0.84	8.57	18.11	33	14.89
QPSK 5M BW Middle Channel								
1882.5	H	89.50	11.78	0.85	8.81	19.74	33	13.26
1882.5	V	88.43	10.71	0.85	8.81	18.67	33	14.33
16-QAM 5M BW Middle Channel								
1882.5	H	89.06	11.34	0.85	8.81	19.30	33	13.70
1882.5	V	88.65	10.93	0.85	8.81	18.89	33	14.11
QPSK 10M BW Middle Channel								
1882.5	H	89.81	12.09	0.85	8.81	20.05	33	12.95
1882.5	V	88.69	10.97	0.85	8.81	18.93	33	14.07
16-QAM 10M BW Middle Channel								
1882.5	H	89.31	11.59	0.85	8.81	19.55	33	13.45
1882.5	V	88.32	10.6	0.85	8.81	18.56	33	14.44
QPSK 15M BW Middle Channel								
1882.5	H	89.77	12.05	0.85	8.81	20.01	33	12.99
1882.5	V	88.37	10.65	0.85	8.81	18.61	33	14.39
16-QAM 15M BW Middle Channel								
1882.5	H	89.18	11.46	0.85	8.81	19.42	33	13.58
1882.5	V	88.46	10.74	0.85	8.81	18.70	33	14.30

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW Middle Channel								
1882.5	H	89.63	11.91	0.85	8.81	19.87	33	13.13
1882.5	V	88.42	10.70	0.85	8.81	18.66	33	14.34
16-QAM 20M BW Middle Channel								
1882.5	H	89.81	12.09	0.85	8.81	20.05	33	12.95
1882.5	V	88.28	10.56	0.85	8.81	18.52	33	14.48

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW High Channel								
1914.3	H	89.79	12.29	0.85	8.86	20.30	33	12.70
1914.3	V	88.78	11.28	0.85	8.86	19.29	33	13.71
16-QAM 1.4M BW High Channel								
1914.3	H	89.72	12.22	0.85	8.86	20.23	33	12.77
1914.3	V	88.08	10.58	0.85	8.86	18.59	33	14.41
QPSK 3M BW High Channel								
1913.5	H	89.61	12.11	0.85	8.86	20.12	33	12.88
1913.5	V	88.47	10.97	0.85	8.86	18.98	33	14.02
16-QAM 3M BW High Channel								
1913.5	H	89.82	12.32	0.85	8.86	20.33	33	12.67
1913.5	V	88.11	10.61	0.85	8.86	18.62	33	14.38
QPSK 5M BW High Channel								
1912.5	H	89.01	11.51	0.84	8.87	19.54	33	13.46
1912.5	V	88.49	10.99	0.84	8.87	19.02	33	13.98
16-QAM 5M BW High Channel								
1912.5	H	89.92	12.42	0.84	8.87	20.45	33	12.55
1912.5	V	88.94	11.44	0.84	8.87	19.47	33	13.53
QPSK 10M BW High Channel								
1910.0	H	89.33	11.83	0.84	8.87	19.86	33	13.14
1910.0	V	88.41	10.91	0.84	8.87	18.94	33	14.06
16-QAM 10M BW High Channel								
1910.0	H	89.15	11.65	0.84	8.87	19.68	33	13.32
1910.0	V	88.98	11.48	0.84	8.87	19.51	33	13.49
QPSK 15M BW High Channel								
1907.5	H	89.60	12.1	0.85	8.87	20.12	33	12.88
1907.5	V	88.45	10.95	0.85	8.87	18.97	33	14.03
16-QAM 15M BW High Channel								
1907.5	H	89.68	12.18	0.85	8.87	20.20	33	12.80
1907.5	V	88.75	11.25	0.85	8.87	19.27	33	13.73

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 20M BW High Channel								
1905.0	H	89.36	11.86	0.85	8.88	19.89	33	13.11
1905.0	V	88.51	11.01	0.85	8.88	19.04	33	13.96
16-QAM 20M High Channel								
1905.0	H	89.76	12.26	0.85	8.88	20.29	33	12.71
1905.0	V	88.99	11.49	0.85	8.88	19.52	33	13.48

ERP:**LTE Band 26**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Low Channel								
814.7	H	88.03	23.33	0.62	-1.21	21.50	34.77	13.27
814.7	V	87.39	22.69	0.62	-1.21	20.86	34.77	13.91
16-QAM 1.4M BW Low Channel								
814.7	H	88.04	23.34	0.62	-1.21	21.51	34.77	13.26
814.7	V	87.72	23.02	0.62	-1.21	21.19	34.77	13.58
QPSK 3M BW Low Channel								
815.5	H	88.73	24.03	0.62	-1.21	22.20	34.77	12.57
815.5	V	87.71	23.01	0.62	-1.21	21.18	34.77	13.59
16-QAM 3M BW Low Channel								
815.5	H	88.54	23.84	0.62	-1.21	22.01	34.77	12.76
815.5	V	87.49	22.79	0.62	-1.21	20.96	34.77	13.81
QPSK 5M BW Low Channel								
816.5	H	88.27	23.57	0.62	-1.20	21.75	34.77	13.02
816.5	V	87.61	22.91	0.62	-1.20	21.09	34.77	13.68
16-QAM 5M BW Low Channel								
816.5	H	88.11	23.41	0.62	-1.20	21.59	34.77	13.18
816.5	V	87.47	22.77	0.62	-1.20	20.95	34.77	13.82
QPSK 10M BW Low Channel								
819.0	H	88.23	23.53	0.62	-1.19	21.72	34.77	13.05
819.0	V	87.24	22.54	0.62	-1.19	20.73	34.77	14.04
16-QAM 10M BW Low Channel								
819.0	H	88.76	24.06	0.62	-1.19	22.25	34.77	12.52
819.0	V	87.39	22.69	0.62	-1.19	20.88	34.77	13.89
QPSK 15M BW Low Channel								
821.5	H	88.67	23.97	0.62	-1.19	22.16	34.77	46.59
821.5	V	87.51	22.81	0.62	-1.19	21.00	34.77	47.49
16-QAM 15M BW Low Channel								
821.5	H	88.63	23.93	0.62	-1.19	22.12	34.77	46.59
821.5	V	87.68	22.98	0.62	-1.19	21.17	34.77	47.49

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW Middle Channel								
831.5	H	88.16	24.16	0.63	-1.16	22.37	34.77	12.40
831.5	V	87.16	23.16	0.63	-1.16	21.37	34.77	13.40
16-QAM 1.4M BW Middle Channel								
831.5	H	88.21	24.21	0.63	-1.16	22.42	34.77	12.35
831.5	V	87.34	23.34	0.63	-1.16	21.55	34.77	13.22
QPSK 3M BW Middle Channel								
831.5	H	88.46	24.46	0.63	-1.16	22.67	34.77	12.10
831.5	V	87.36	23.36	0.63	-1.16	21.57	34.77	13.20
16-QAM 3M BW Middle Channel								
831.5	H	88.16	24.16	0.63	-1.16	22.37	34.77	12.40
831.5	V	87.46	23.46	0.63	-1.16	21.67	34.77	13.10
QPSK 5M BW Middle Channel								
831.5	H	88.46	24.46	0.63	-1.16	22.67	34.77	12.10
831.5	V	87.25	23.25	0.63	-1.16	21.46	34.77	13.31
16-QAM 5M BW Middle Channel								
831.5	H	88.19	24.19	0.63	-1.16	22.40	34.77	12.37
831.5	V	87.48	23.48	0.63	-1.16	21.69	34.77	13.08
QPSK 10M BW Middle Channel								
831.5	H	88.49	24.49	0.63	-1.16	22.70	34.77	12.07
831.5	V	87.05	23.05	0.63	-1.16	21.26	34.77	13.51
16-QAM 10M BW Middle Channel								
831.5	H	87.89	23.89	0.63	-1.16	22.10	34.77	12.67
831.5	V	86.30	22.30	0.63	-1.16	20.51	34.77	14.26
QPSK 15M BW Middle Channel								
831.5	H	88.42	24.42	0.63	-1.16	22.63	34.77	46.02
831.5	V	87.93	23.93	0.63	-1.16	22.14	34.77	47.05
16-QAM 15M BW Middle Channel								
831.5	H	88.35	24.35	0.63	-1.16	22.56	34.77	46.02
831.5	V	87.50	23.50	0.63	-1.16	21.71	34.77	47.05

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Submitted Level (dBm)	Cable loss (dB)	Antenna Gain (dBd/dBi)			
QPSK 1.4M BW High Channel								
848.3	H	88.62	23.33	0.63	-1.11	21.59	34.77	13.18
848.3	V	87.20	21.91	0.63	-1.11	20.17	34.77	14.60
16-QAM 1.4M BW High Channel								
847.5	H	88.71	23.42	0.63	-1.11	21.68	34.77	13.09
847.5	V	87.27	21.98	0.63	-1.11	20.24	34.77	14.53
QPSK 3M BW High Channel								
847.5	H	88.75	23.46	0.63	-1.11	21.72	34.77	13.05
847.5	V	87.05	21.76	0.63	-1.11	20.02	34.77	14.75
16-QAM 3M BW High Channel								
847.5	H	88.17	22.88	0.63	-1.11	21.14	34.77	13.63
847.5	V	87.49	22.20	0.63	-1.11	20.46	34.77	14.31
QPSK 5M BW High Channel								
846.5	H	88.17	22.88	0.63	-1.11	21.14	34.77	13.63
846.5	V	87.03	21.74	0.63	-1.11	20.00	34.77	14.77
16-QAM 5M BW High Channel								
846.5	H	88.12	22.83	0.63	-1.11	21.09	34.77	13.68
846.5	V	87.56	22.27	0.63	-1.11	20.53	34.77	14.24
QPSK 10M BW High Channel								
844.0	H	88.79	23.50	0.63	-1.12	21.75	34.77	13.02
844.0	V	87.15	21.86	0.63	-1.12	20.11	34.77	14.66
16-QAM 10M BW High Channel								
844.0	H	88.12	22.83	0.63	-1.12	21.08	34.77	13.69
844.0	V	87.73	22.44	0.63	-1.12	20.69	34.77	14.08
QPSK 15M BW High Channel								
841.5	H	88.23	22.94	0.63	-1.13	21.18	34.77	46.17
841.5	V	87.27	21.98	0.63	-1.13	20.22	34.77	47.32
16-QAM 15M BW High Channel								
841.5	H	88.31	23.02	0.63	-1.13	21.26	34.77	46.17
841.5	V	87.64	22.35	0.63	-1.13	20.59	34.77	47.32

Note:

All above data were tested without amplifier.

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

Margin (dB) = Limit (dBm) - Absolute Level (dBm)

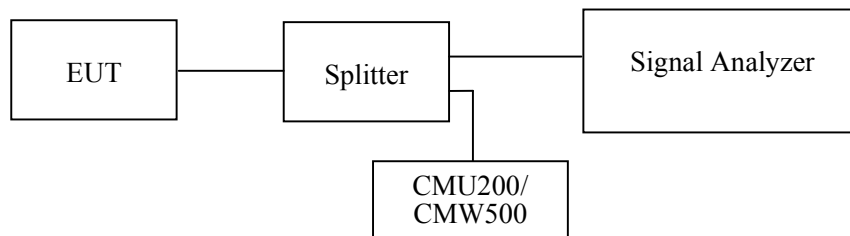
FCC §2.1049, §22.917, §22.905 & §24.238; §27.53; §90.209 - OCCUPIED BANDWIDTH**Applicable Standards**

FCC 47 §2.1049, §22.917, §22.905 & §24.238, §90.209 and §27.53.

Test Procedure

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

The resolution bandwidth of the spectrum analyzer was set at 100 kHz (WCDMA) & 30 kHz/50 kHz/100 kHz/300 kHz (LTE), and the 26 dB & 99% bandwidth was recorded.

**Test Data****Environmental Conditions**

Temperature:	23.9~25.4 °C
Relative Humidity:	49~53 %
ATM Pressure:	100.7~101.9 kPa

The testing was performed by Jack Jiao from 2020-11-02 to 2020-11-27.

EUT operation mode: Transmitting

Test Result: Compliant.

WCDMA Band V

Mode	Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
WCDMA (Rel 99)	Low	826.4	4.749	4.168
	Middle	836.6	4.729	4.148
	High	846.6	4.709	4.128
WCDMA (HSDPA)	Low	826.4	4.729	4.148
	Middle	836.6	4.729	4.148
	High	846.6	4.709	4.128
WCDMA (HSUPA)	Low	826.4	4.749	4.148
	Middle	836.6	4.729	4.148
	High	846.6	4.749	4.148
WCDMA (HSPA+)	Low	826.4	4.770	4.148
	Middle	836.6	4.770	4.168
	High	846.6	4.749	4.148

WCDMA Band II

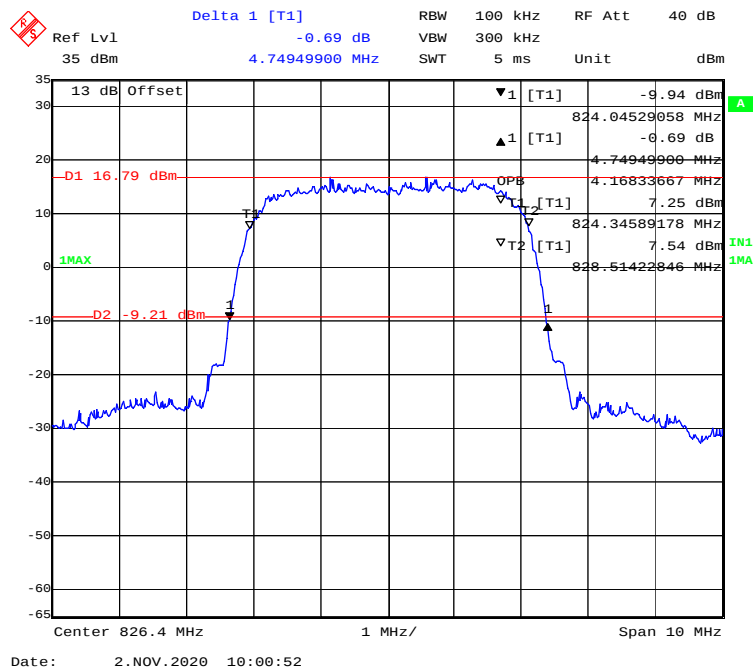
Mode	Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
WCDMA (Rel 99)	Low	1852.4	4.749	4.168
	Middle	1880	4.749	4.148
	High	1907.6	4.749	4.148
WCDMA (HSDPA)	Low	1852.4	4.749	4.168
	Middle	1880	4.749	4.148
	High	1907.6	4.749	4.148
WCDMA (HSUPA)	Low	1852.4	4.749	4.168
	Middle	1880	4.749	4.148
	High	1907.6	4.749	4.148
WCDMA (HSPA+)	Low	1852.4	4.749	4.168
	Middle	1880	4.749	4.168
	High	1907.6	4.749	4.148

WCDMA Band IV

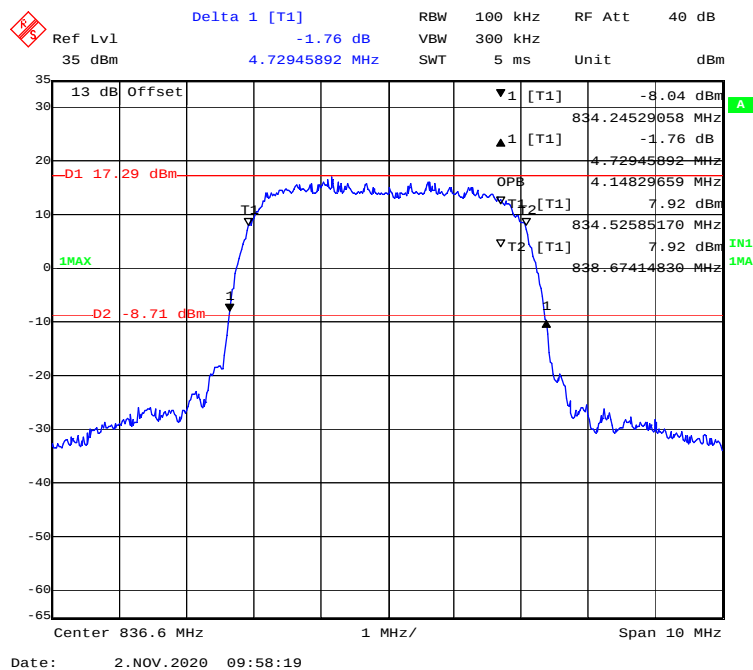
Mode	Channel	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
WCDMA (Rel 99)	Low	1712.4	4.769	4.168
	Middle	1732.6	4.749	4.168
	High	1752.6	4.789	4.168
WCDMA (HSDPA)	Low	1712.4	4.769	4.168
	Middle	1732.6	4.749	4.168
	High	1752.6	4.789	4.168
WCDMA (HSUPA)	Low	1712.4	4.749	4.148
	Middle	1732.6	4.770	4.128
	High	1752.6	4.770	4.148
WCDMA (HSPA+)	Low	1712.4	4.770	4.148
	Middle	1732.6	4.770	4.148
	High	1752.6	4.749	4.148

WCDMA Band V

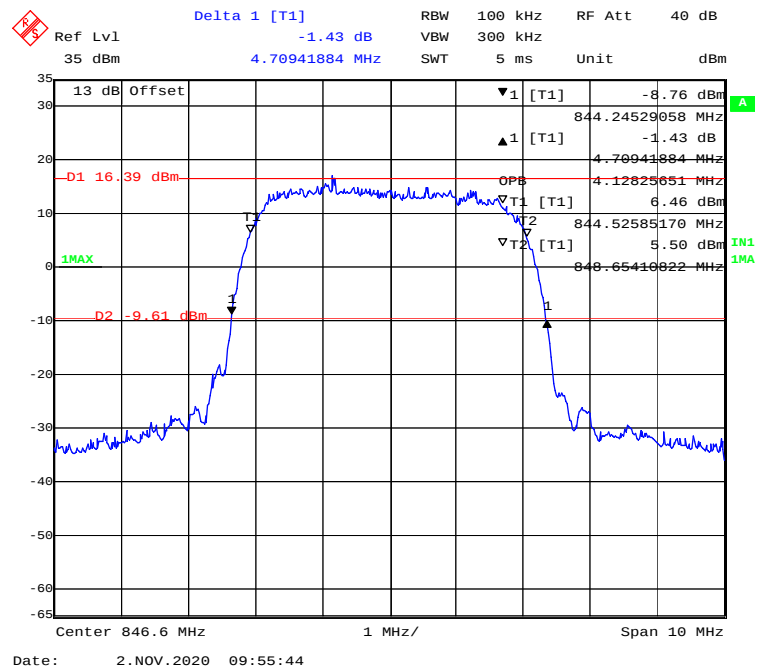
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



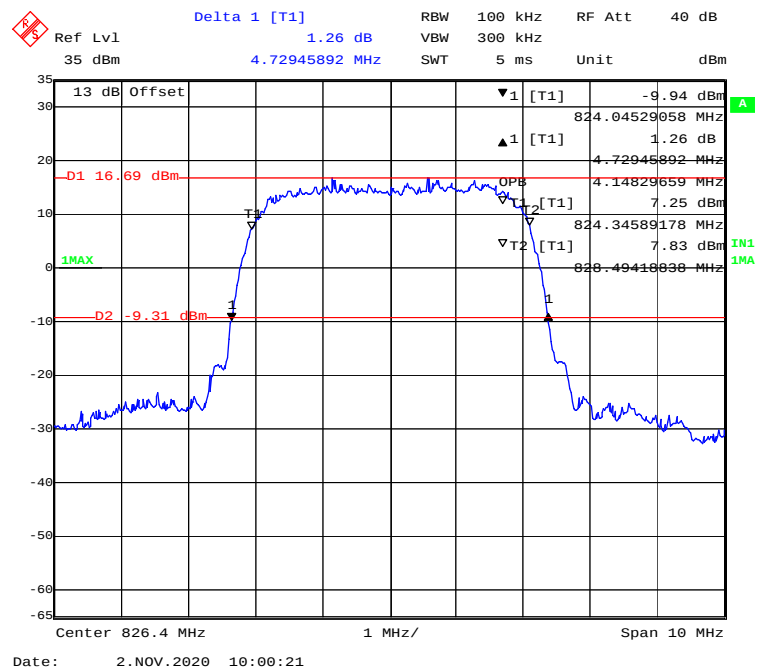
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel

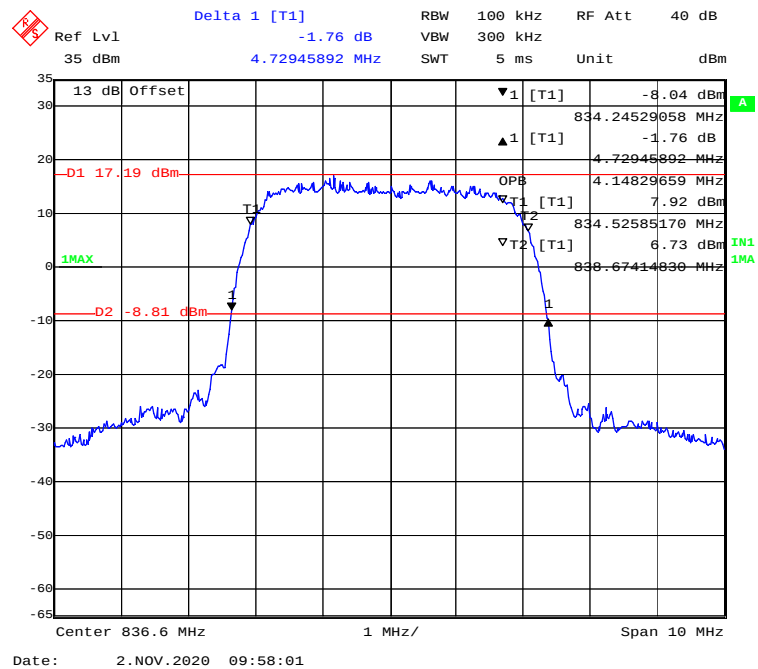
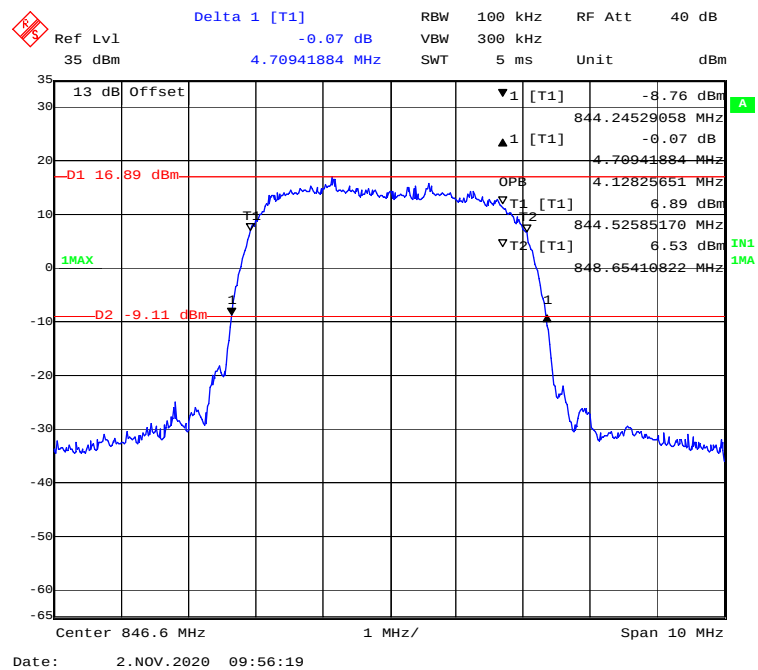


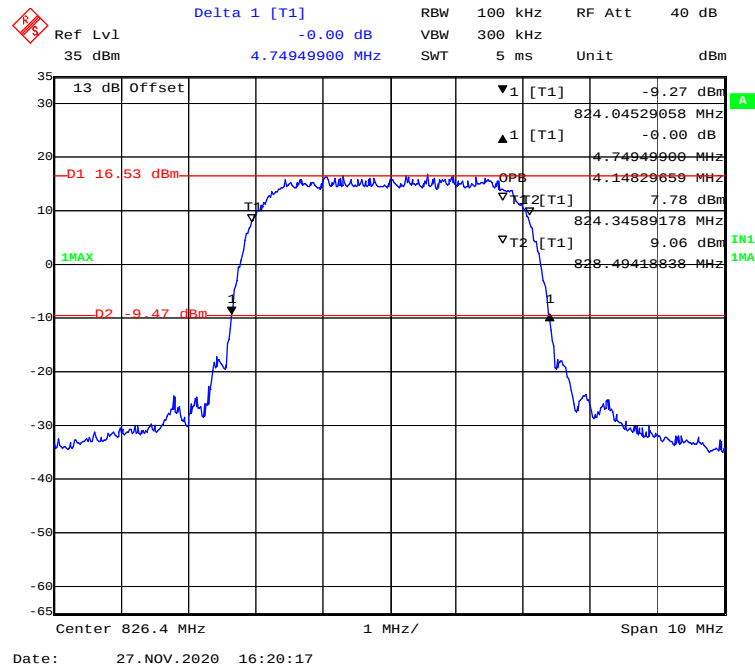
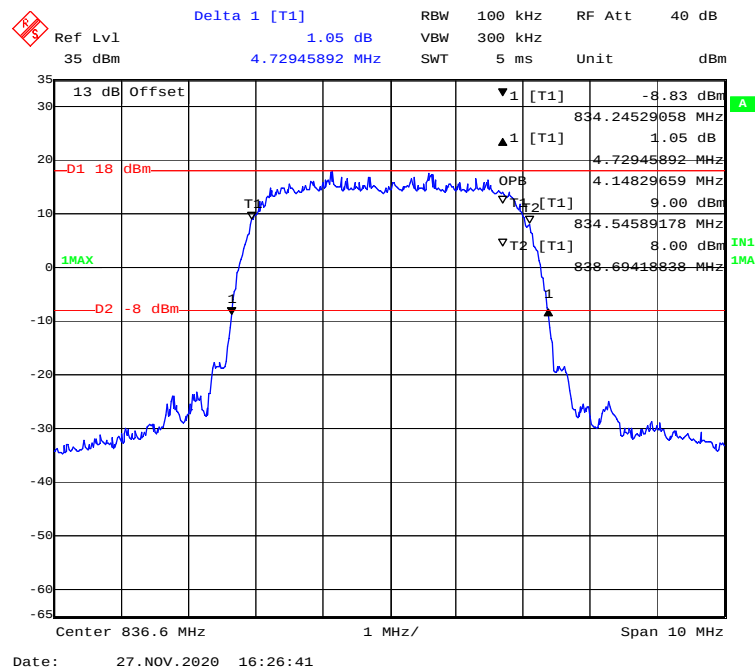
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel



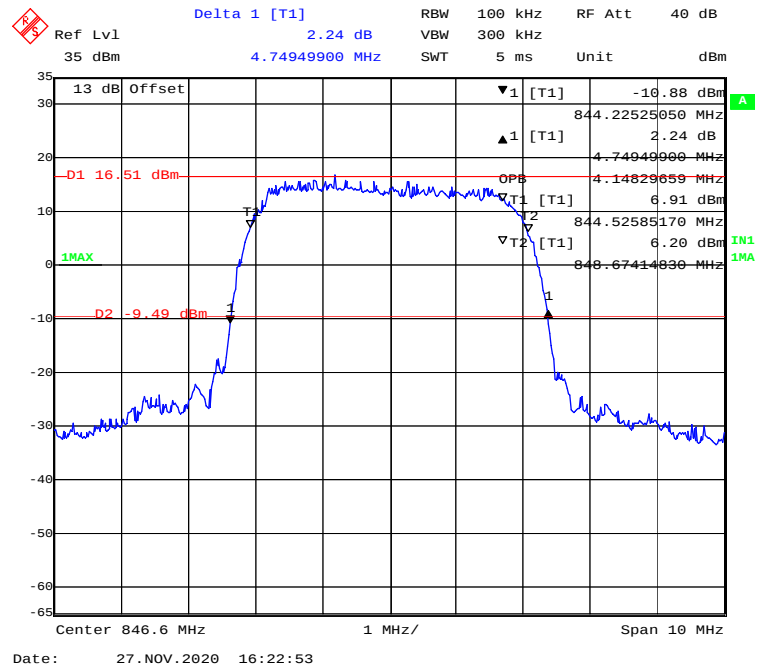
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel



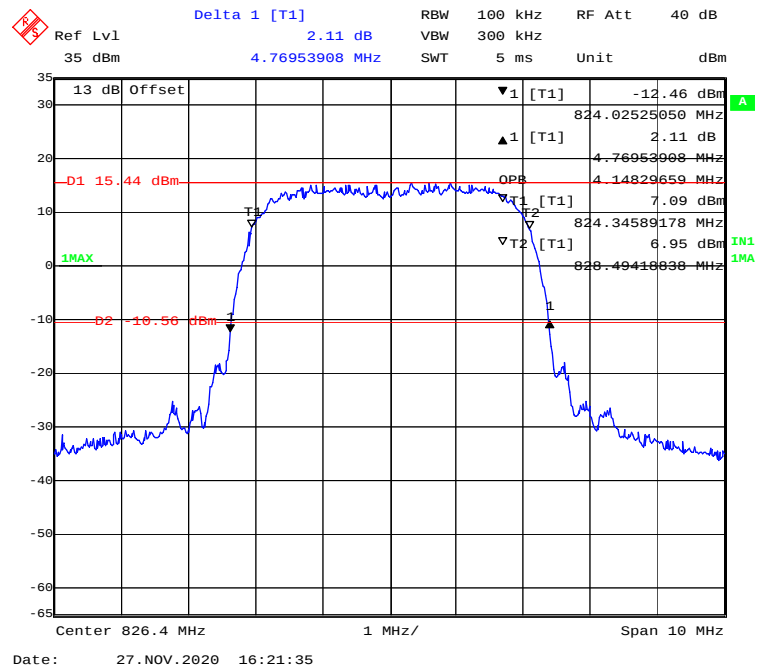
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel**

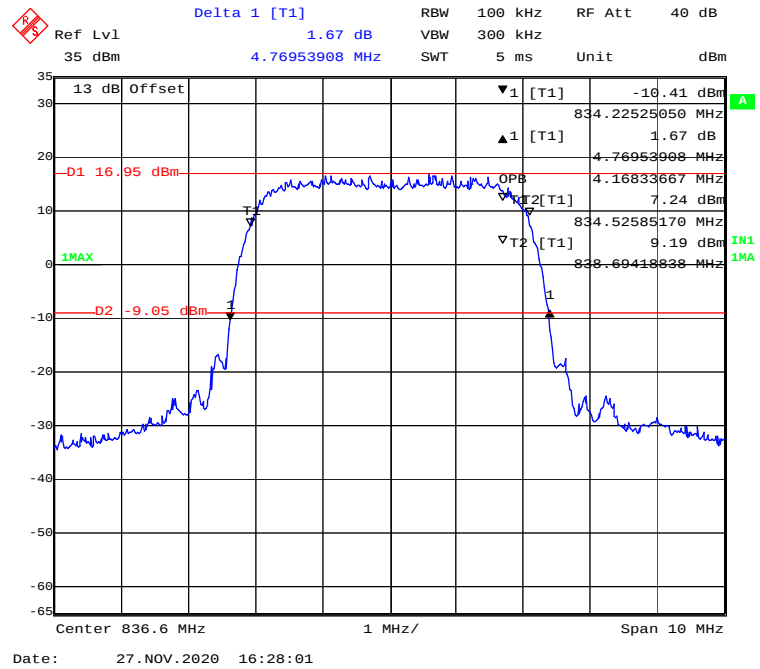
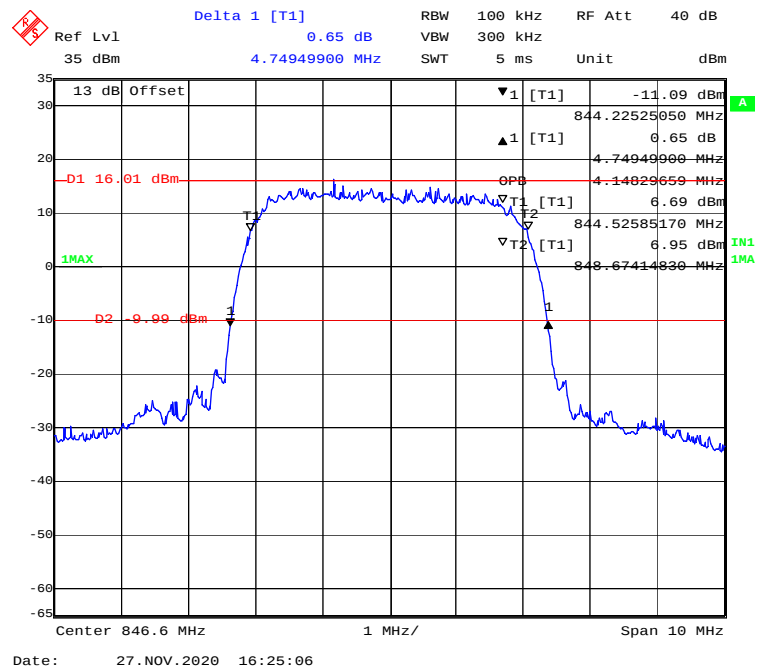
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel**

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) High channel



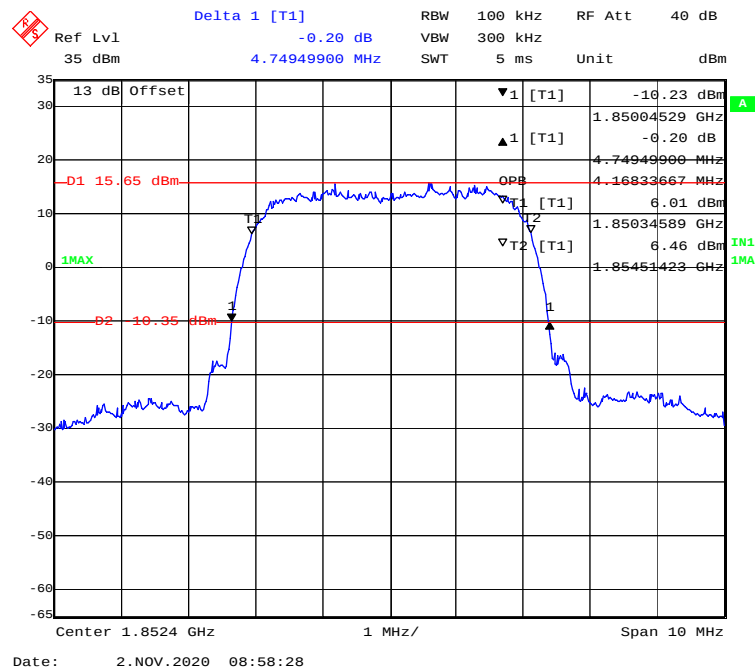
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel



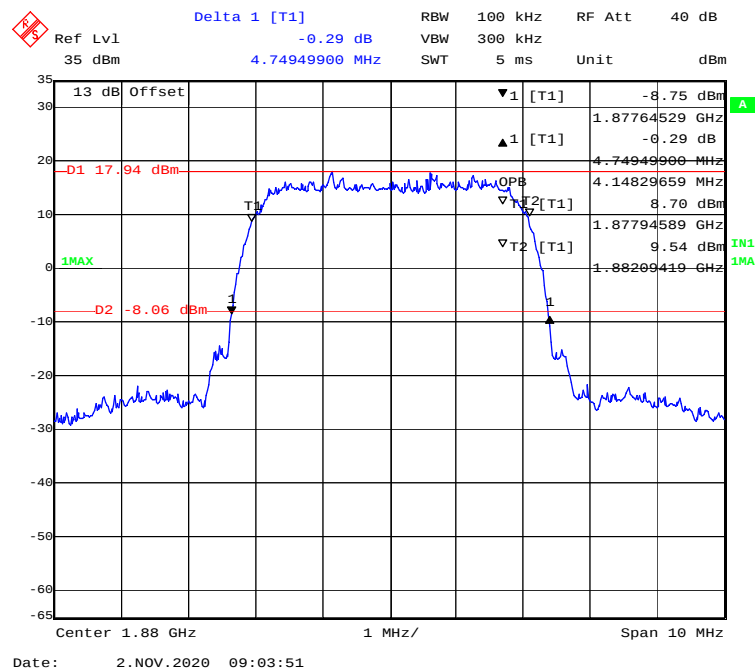
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Middle channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) High channel**

WCDMA Band II

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel



[illegible]

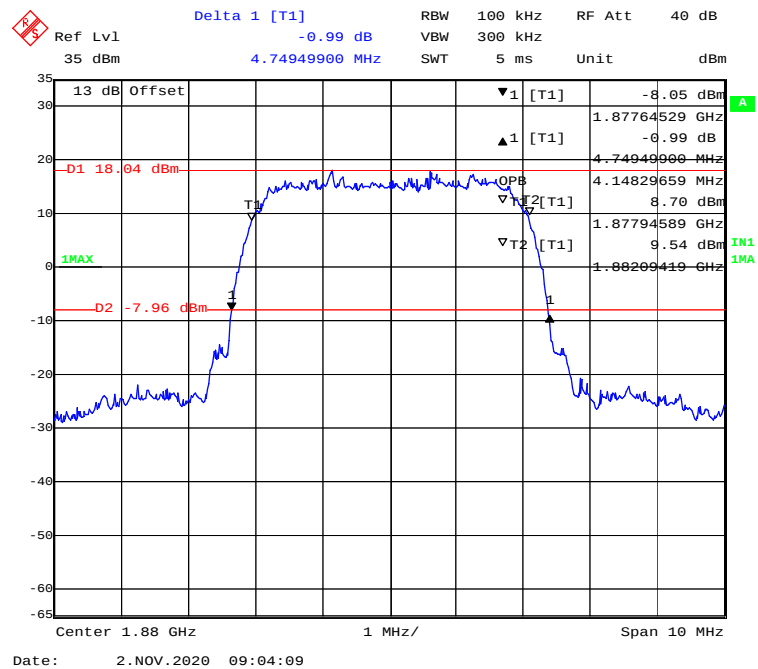
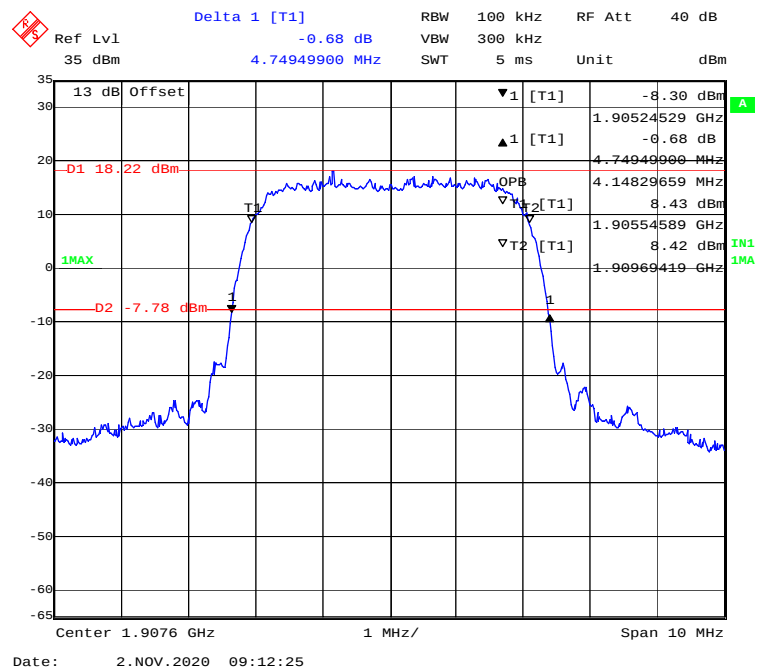
Ref Lvl 35 dBm
Delta 1 [T1] -0.20 dB
RBW 100 kHz
SWT 5 ms
RF Att 40 dB
Unit dBm

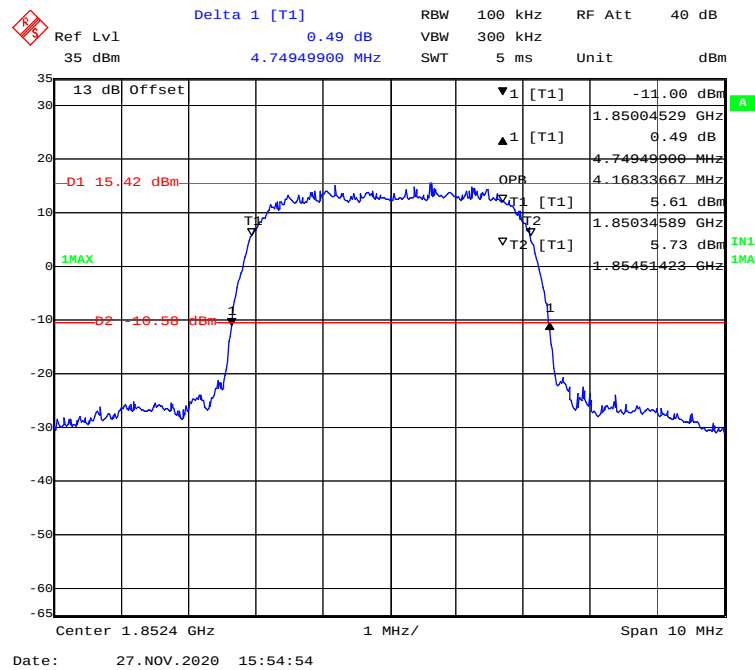
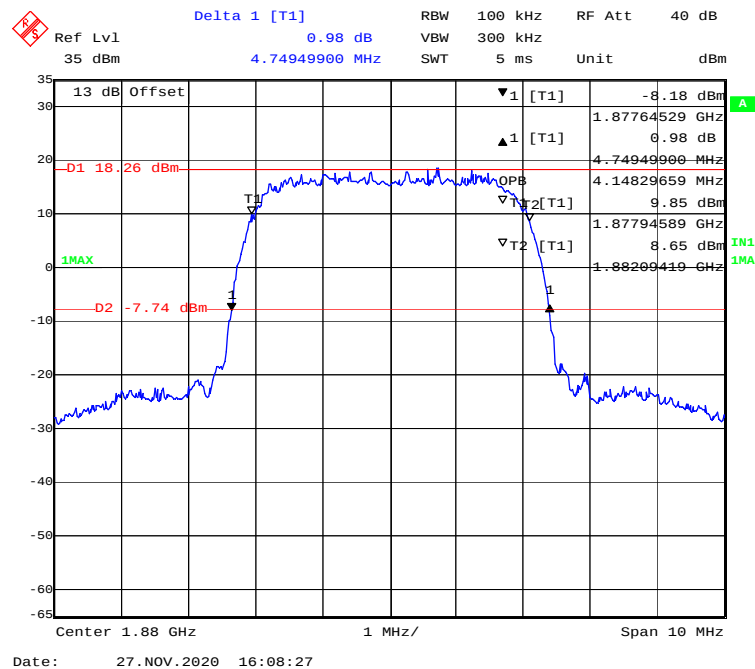
13 dB Offset
D1 15.75 dBm
D2 10.25 dBm
IMAX
IN1
1MA

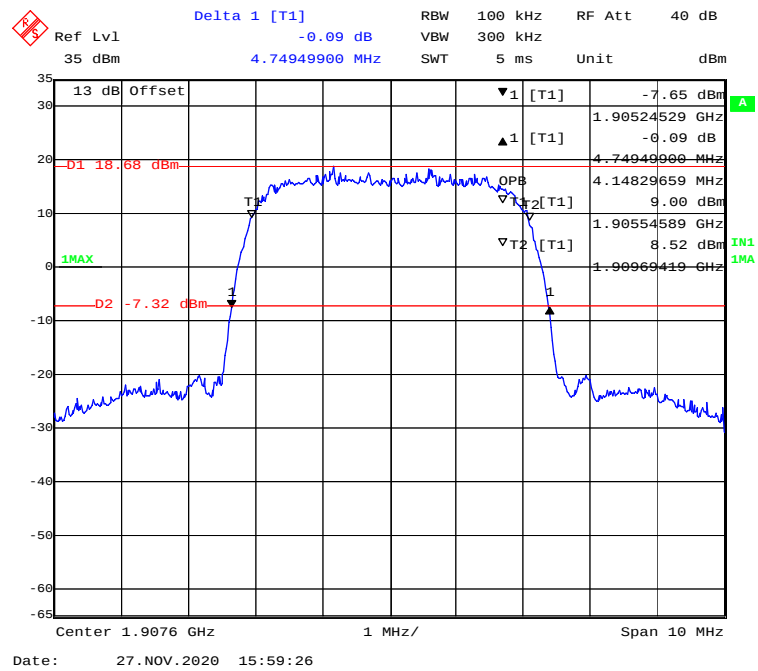
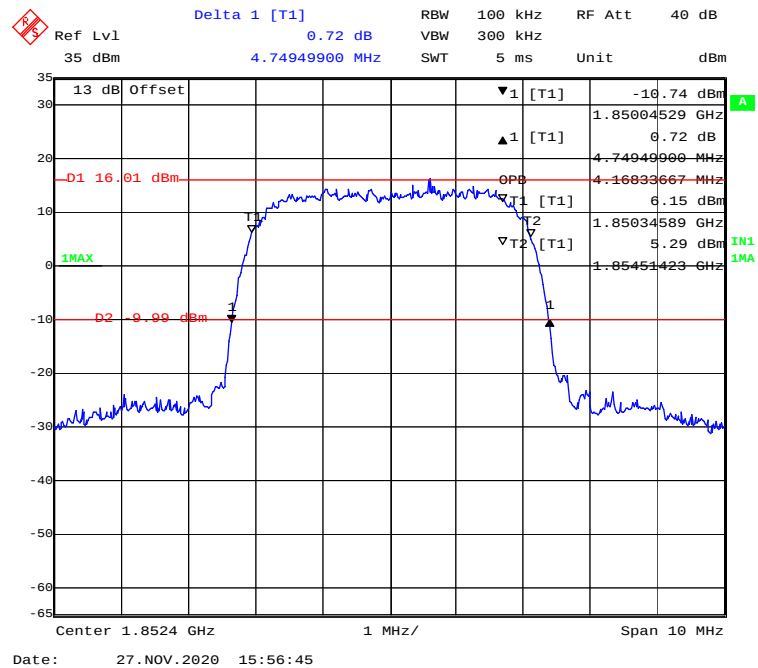
▼1 [T1] -10.23 dBm
▲1 [T1] -0.20 dB
OPB 4.74949900 MHz
▼T1 [T1] 1.85004529 GHz
▼T2 [T1] 1.85034589 GHz
1 1.85451423 GHz

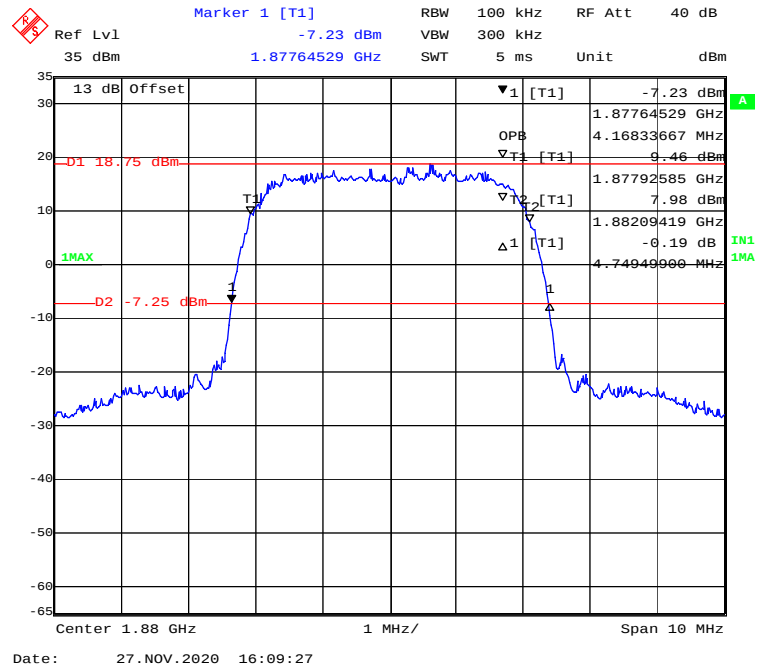
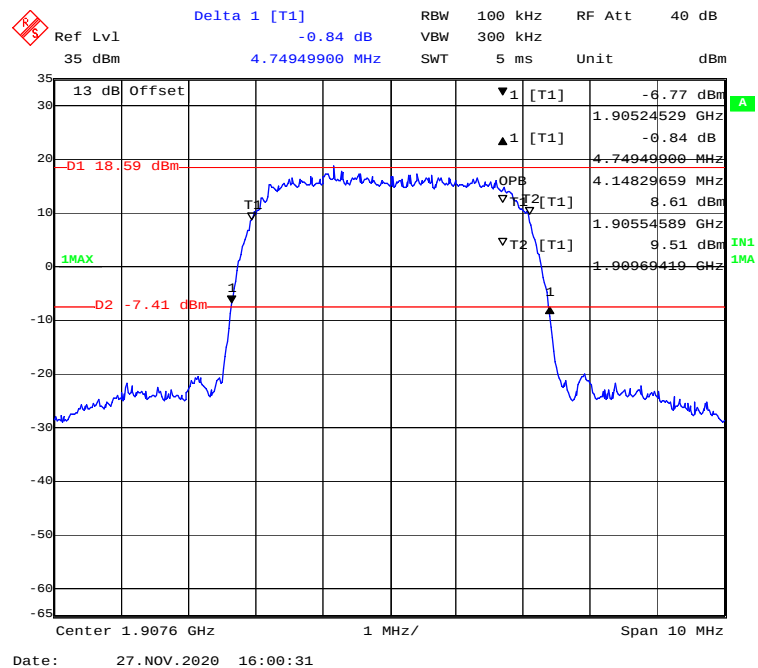
Center 1.8524 GHz
1 MHz/
Span 10 MHz

Date: 2.NOV.2020 09:00:47

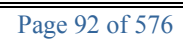
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel**

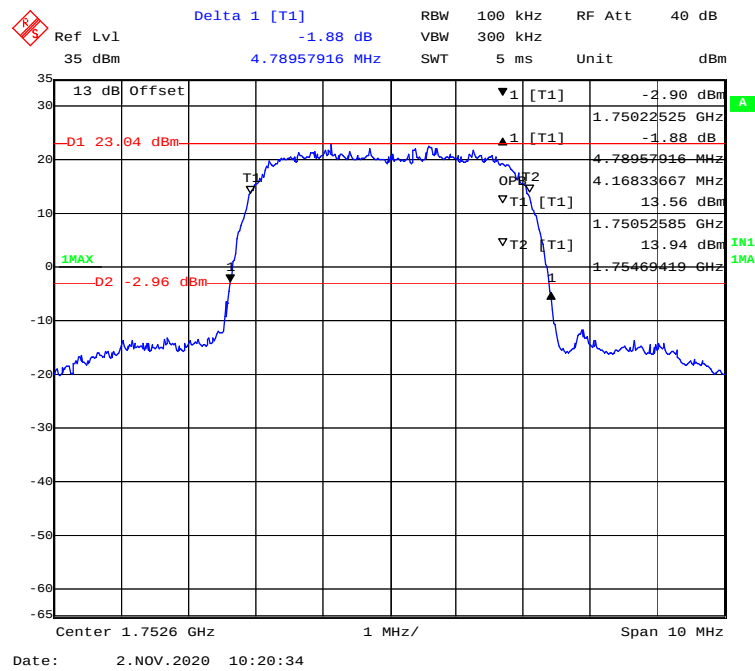
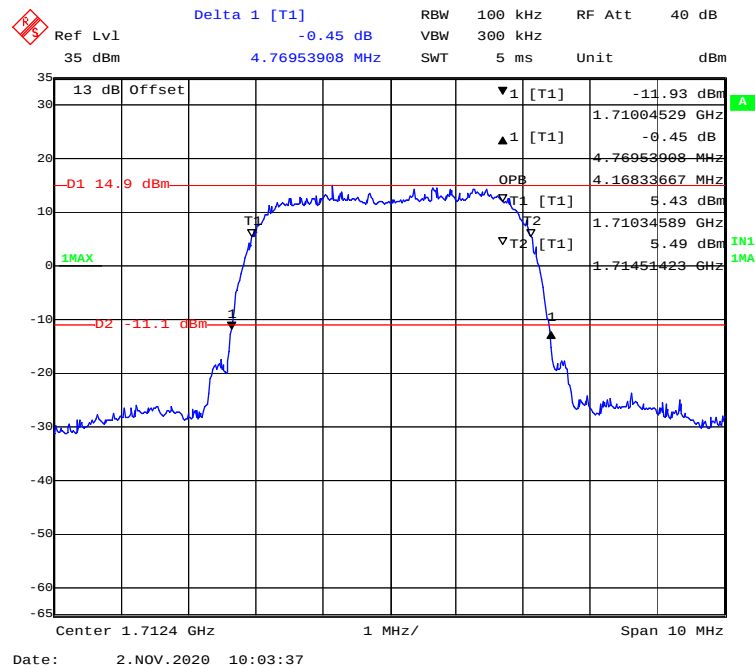
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel**

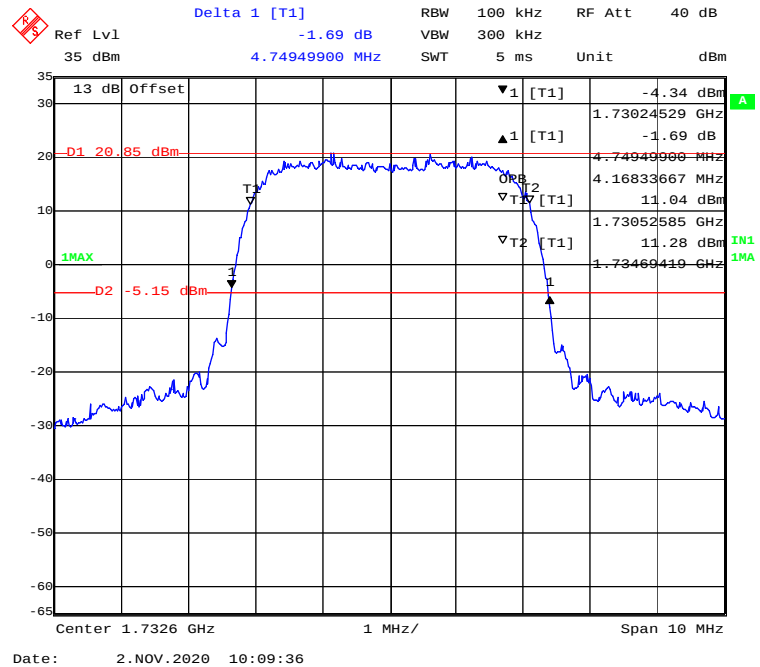
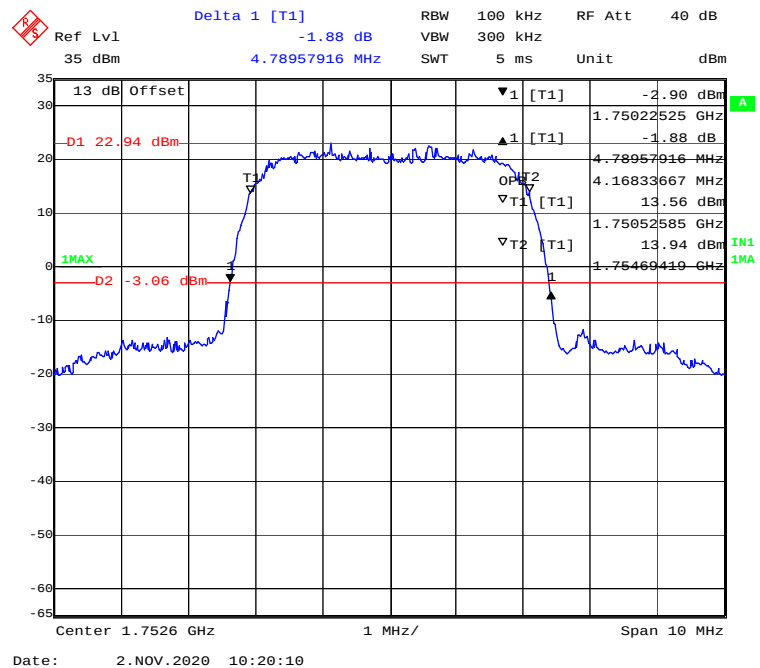
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) High channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel**

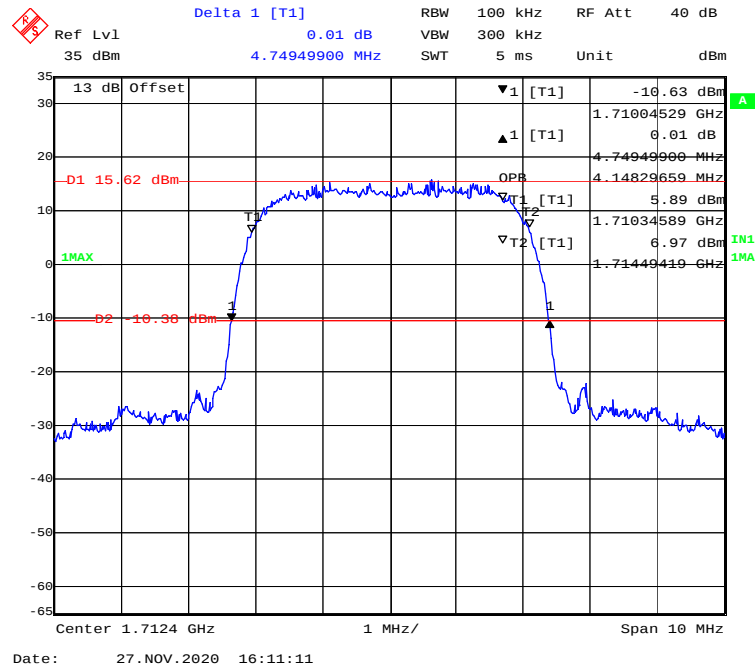
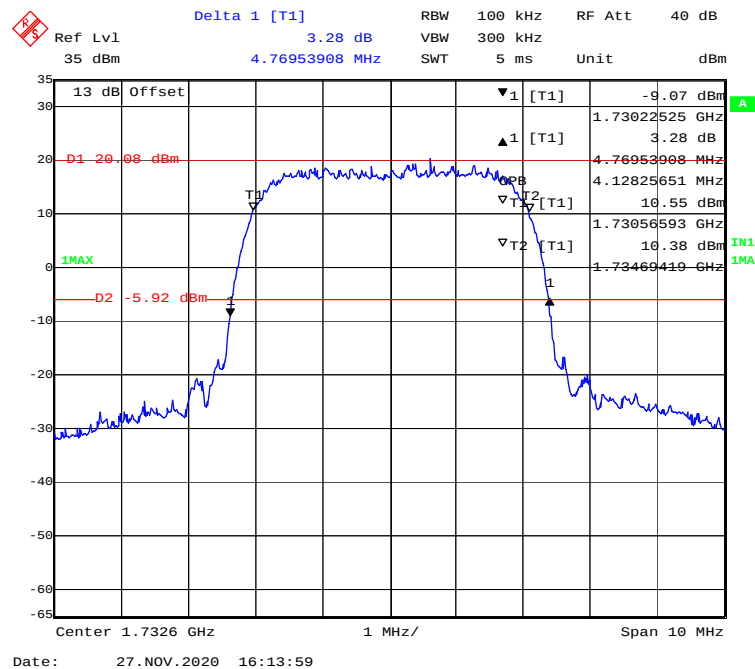
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Middle channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) High channel**

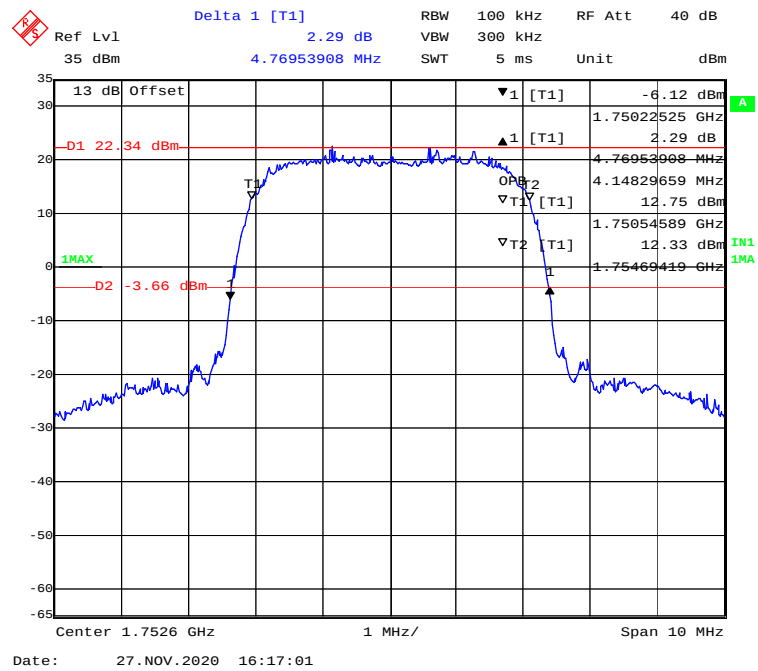
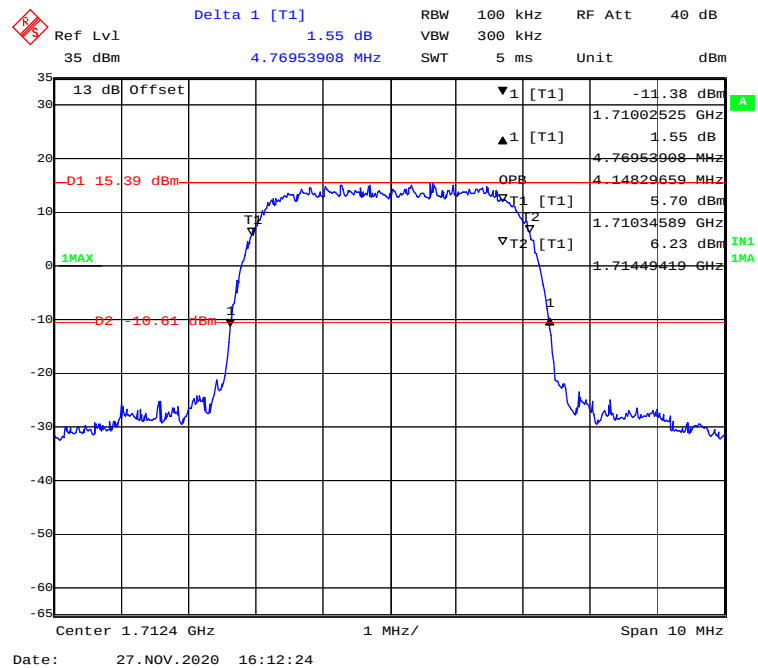
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel

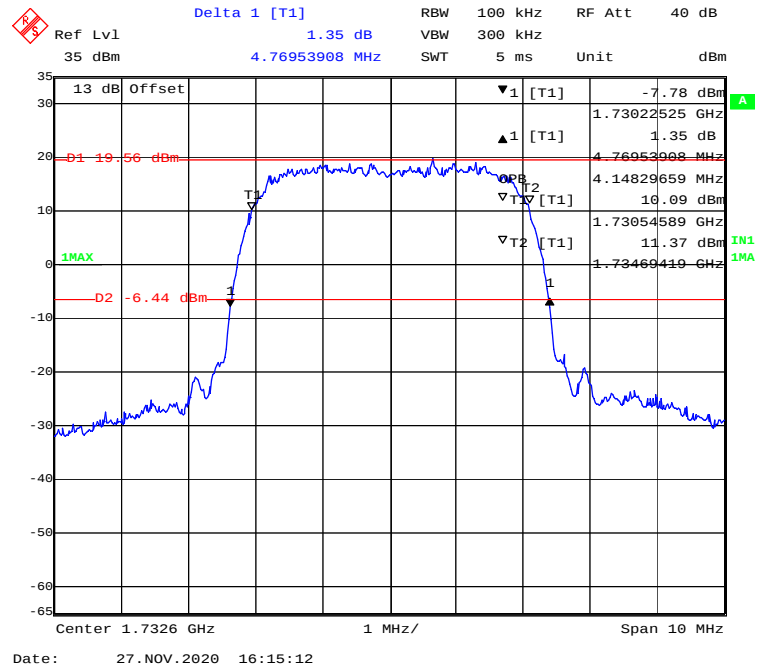
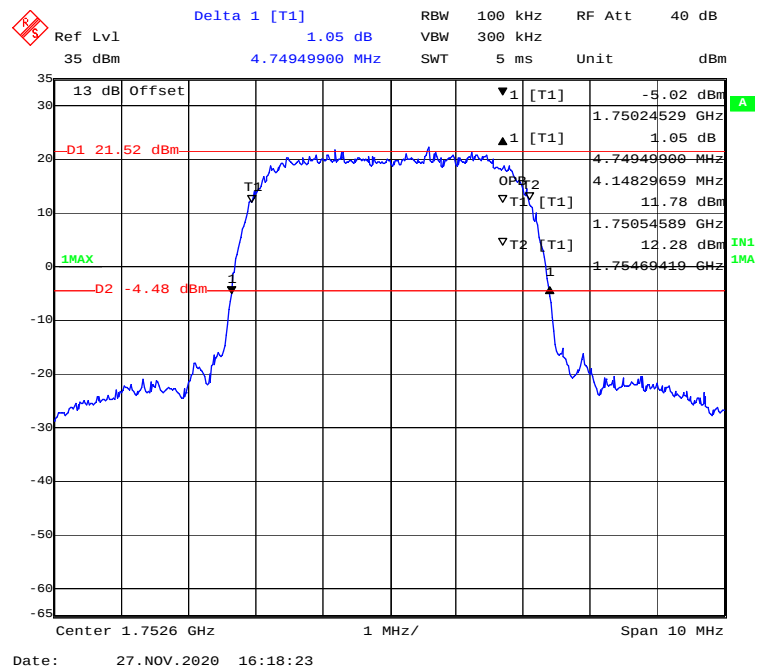


99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel**

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel**

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel**

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) High channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel**

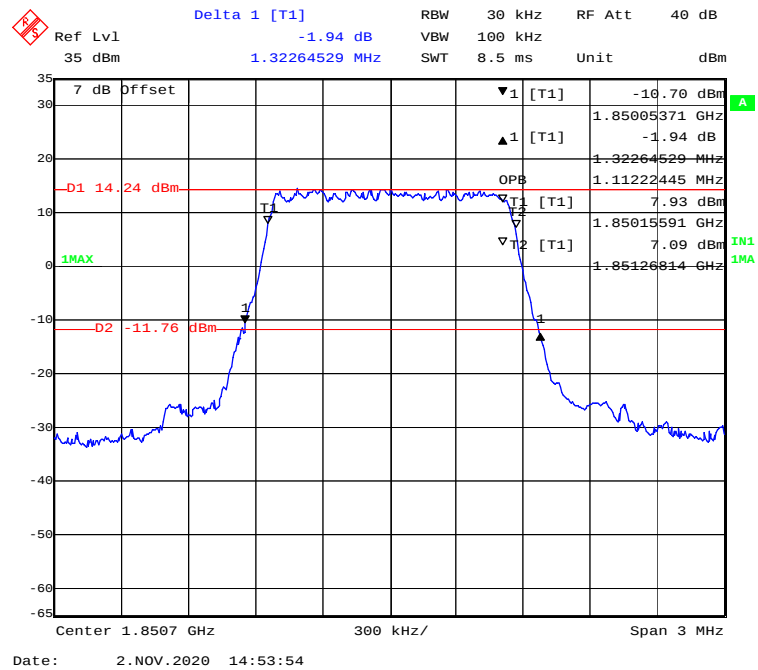
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Middle channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) High channel**

LTE Band 2:

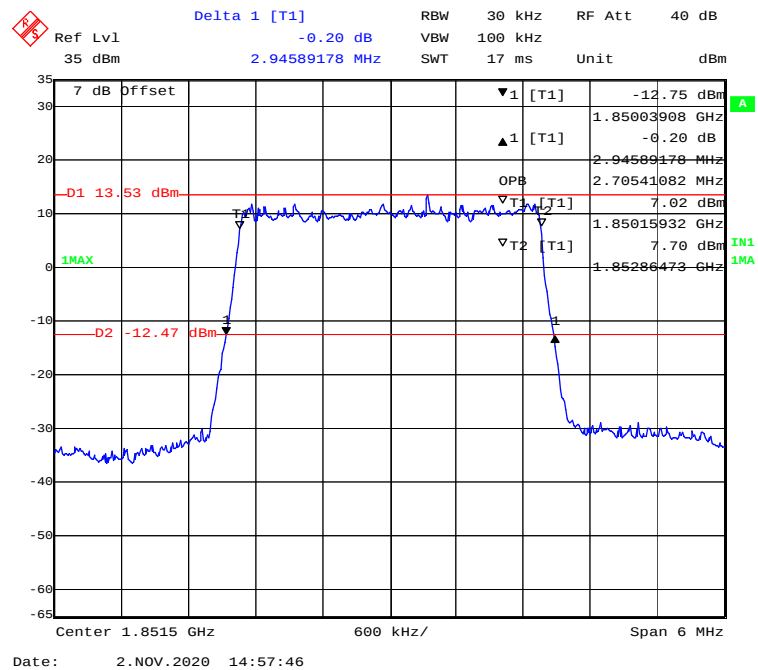
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	1.4M	Low	1.323	1.112
	3M		2.946	2.705
	5M		4.950	4.509
	10M		9.699	8.938
	15M		14.970	13.527
	20M		19.399	17.956
	1.4M	Middle	1.317	1.106
	3M		2.934	2.705
	5M		4.970	4.489
	10M		9.780	8.938
	15M		15.030	13.587
	20M		19.399	17.956
	1.4M	High	1.299	1.118
	3M		2.946	2.705
	5M		4.970	4.489
	10M		9.659	8.938
	15M		14.970	13.507
	20M		19.559	17.956

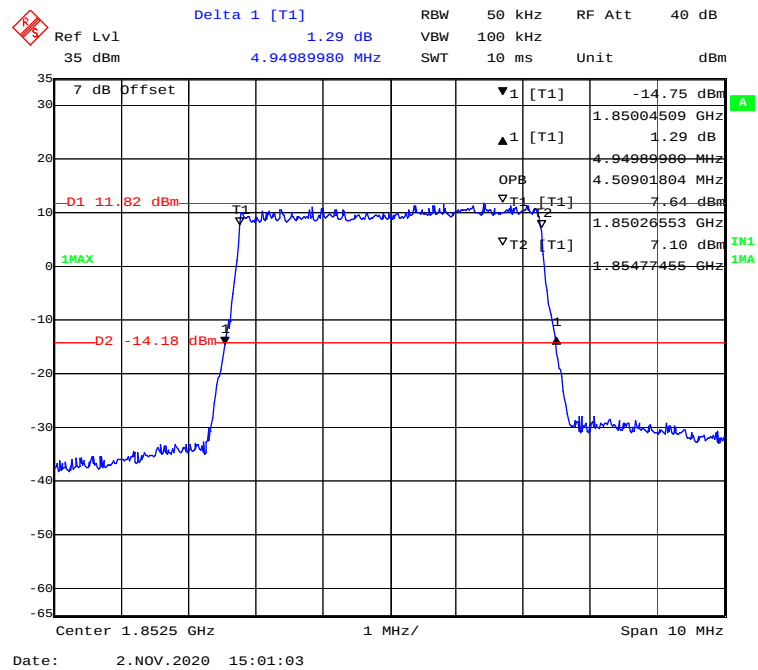
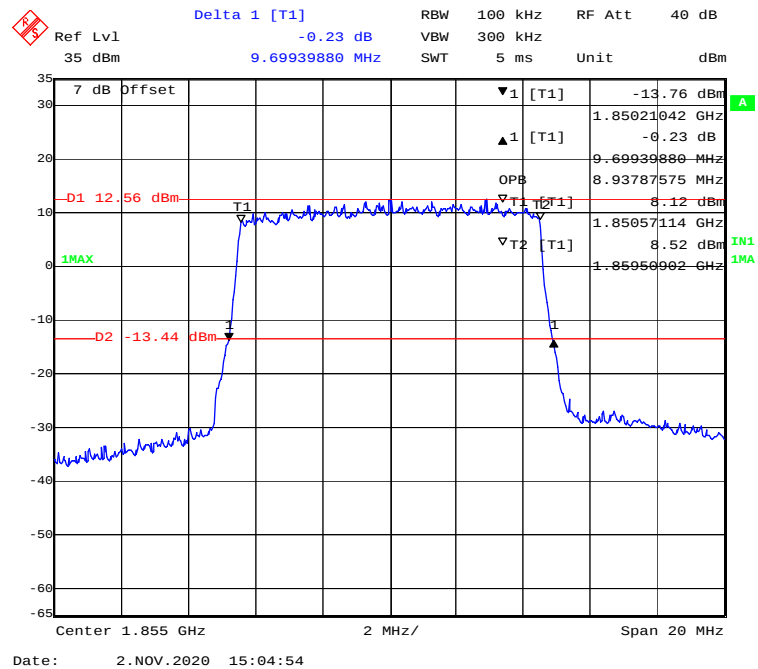
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
16-QAM	1.4M	Low	1.323	1.112
	3M		2.946	2.705
	5M		4.950	4.509
	10M		9.699	8.938
	15M		14.970	13.527
	20M		19.399	17.956
	1.4M	Middle	1.317	1.112
	3M		2.934	2.705
	5M		4.970	4.509
	10M		9.780	8.938
	15M		15.030	13.587
	20M		19.399	17.956
	1.4M	High	1.299	1.118
	3M		2.946	2.705
	5M		4.970	4.489
	10M		9.739	8.938
	15M		14.970	13.587
	20M		19.559	17.956

QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

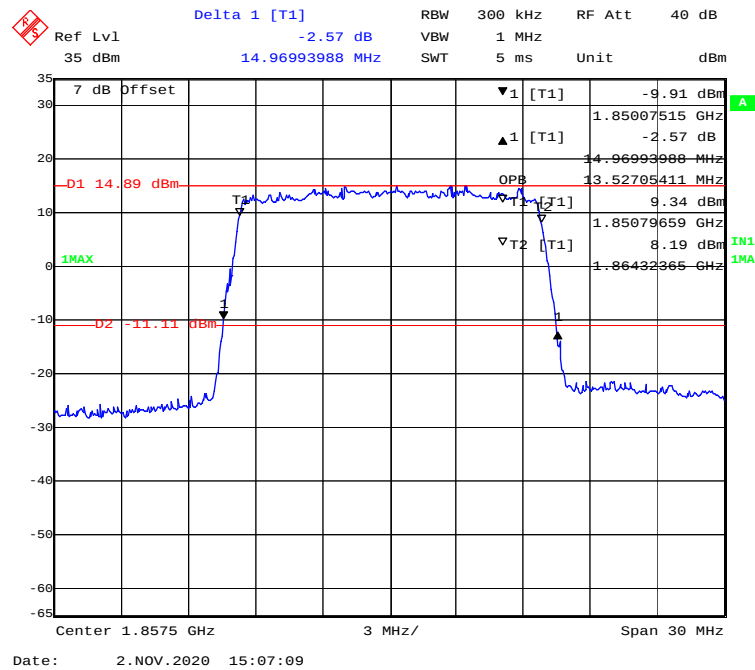


QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

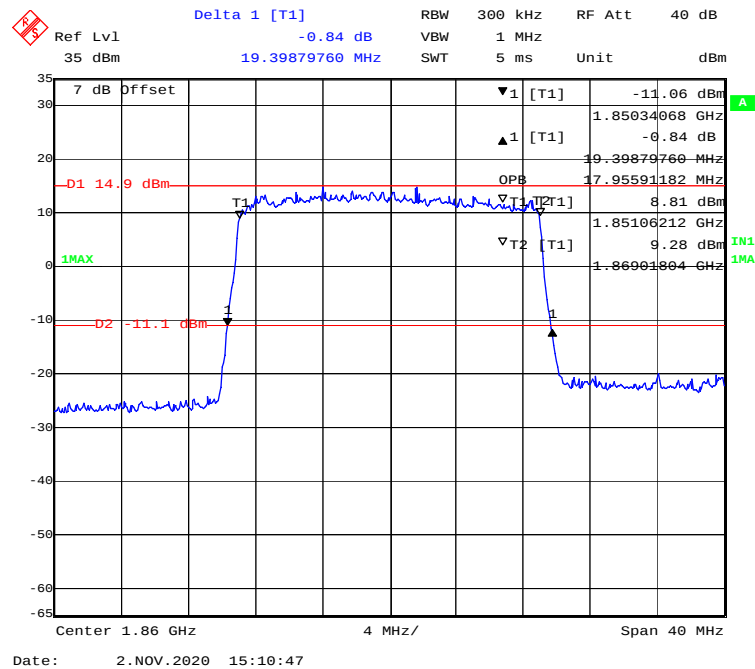


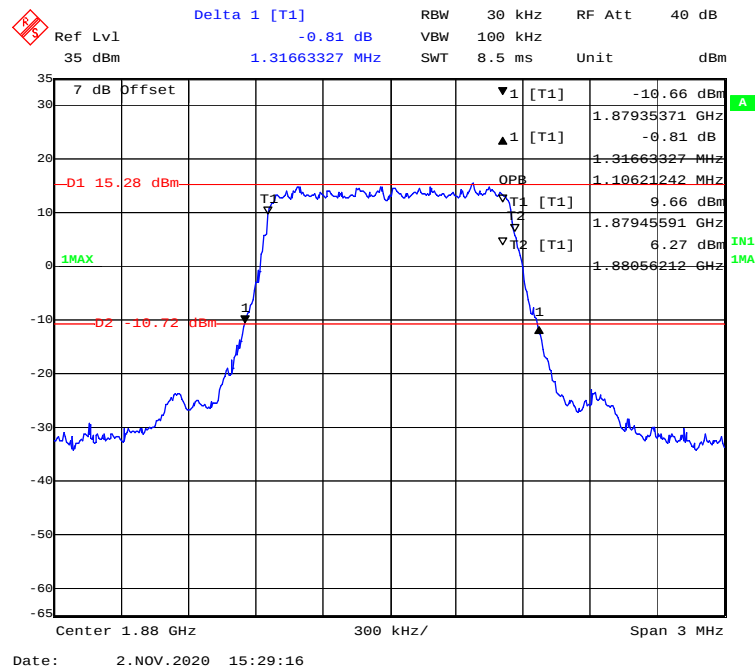
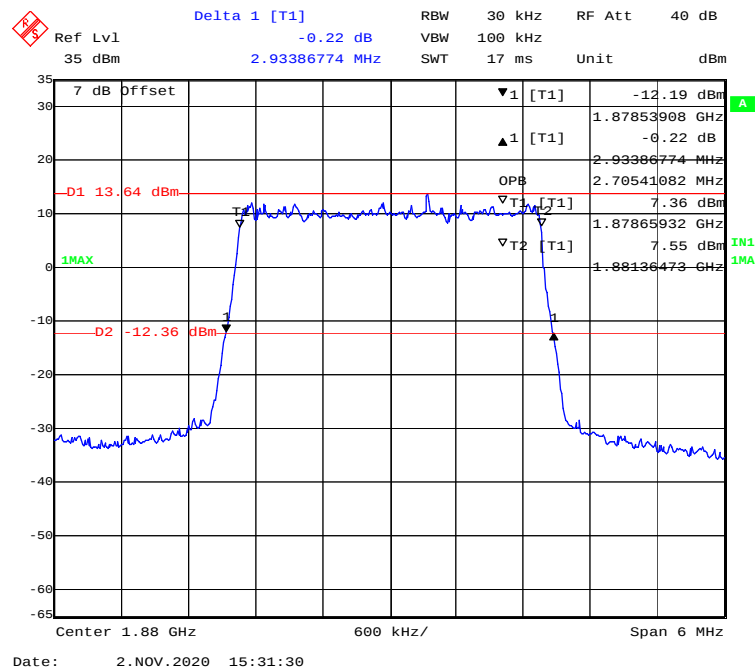
QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (10MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

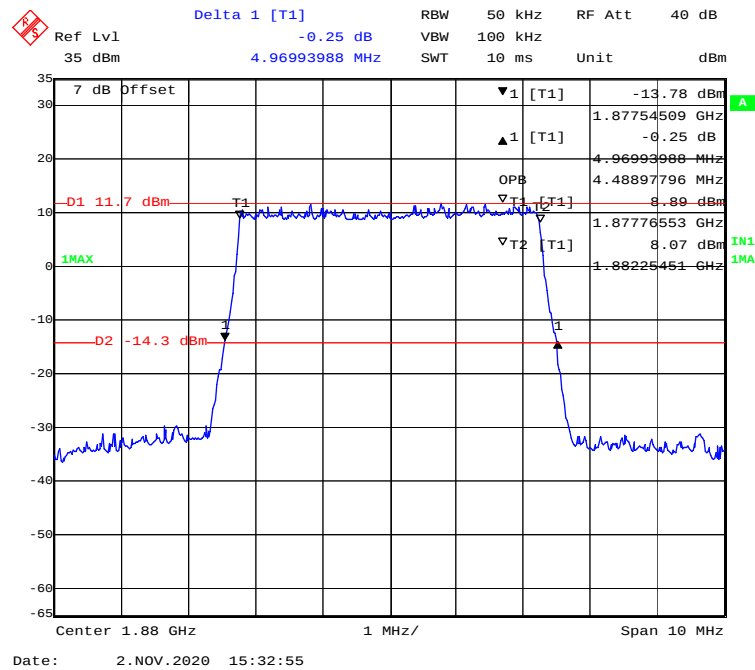
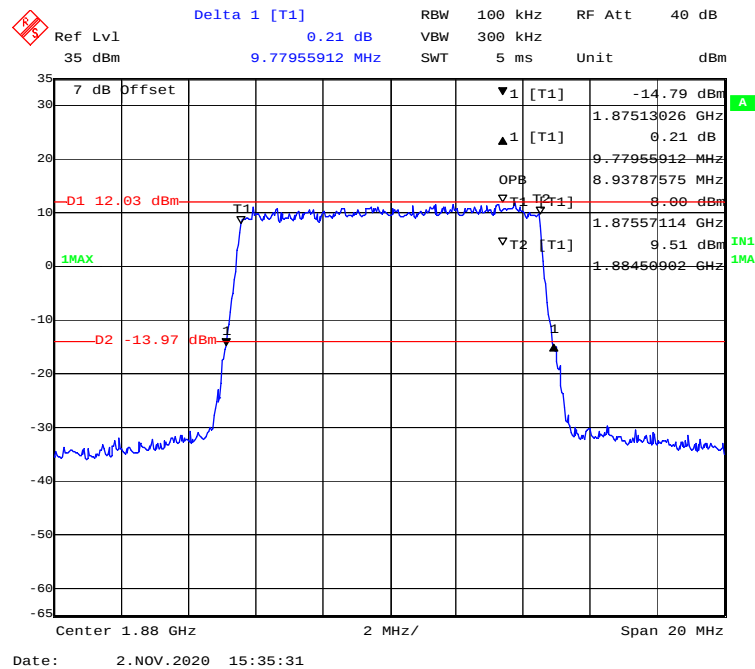
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

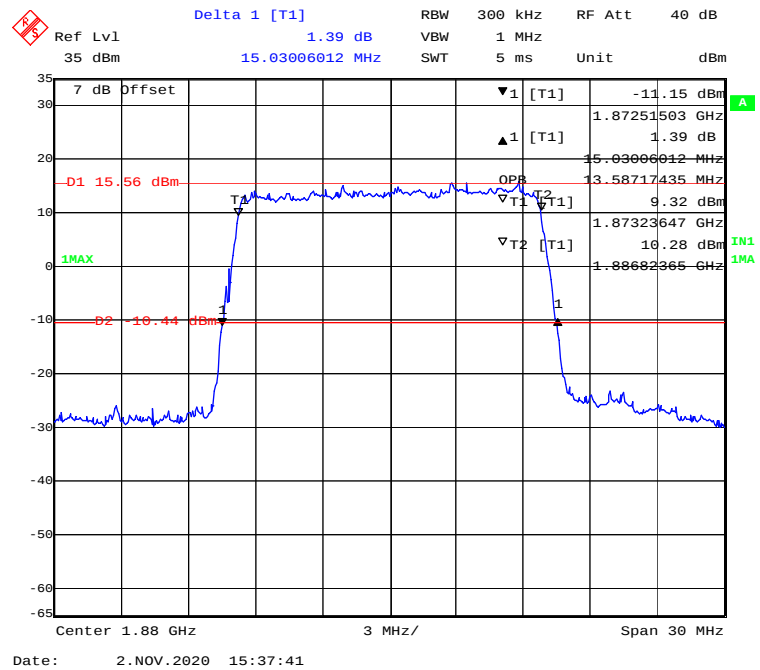
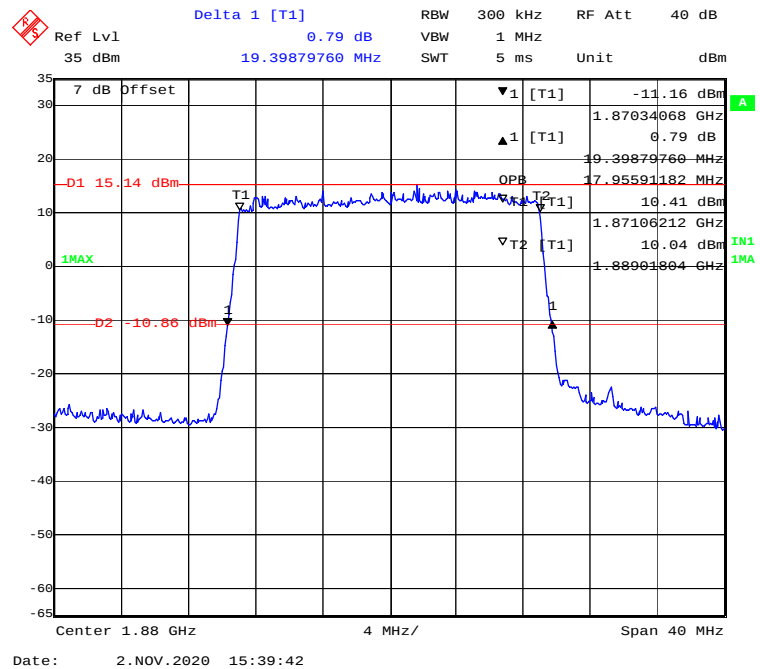


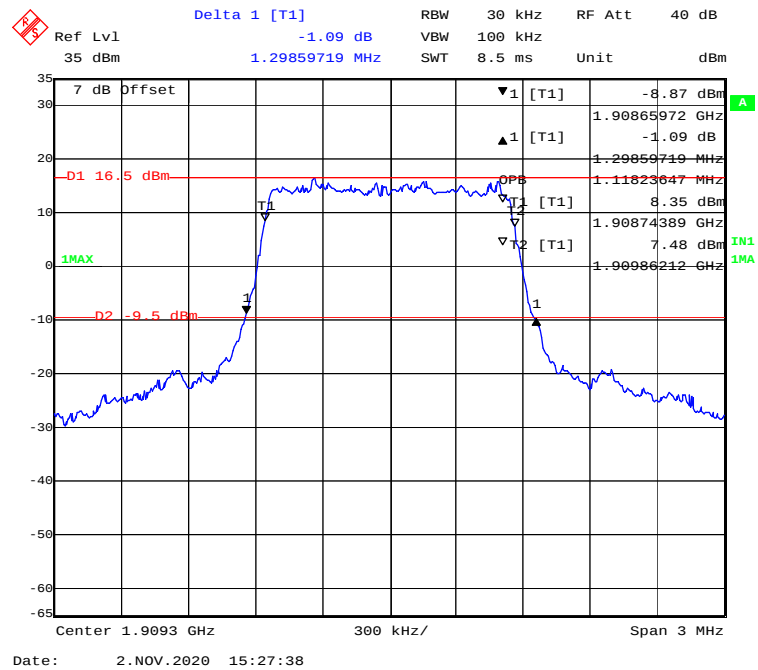
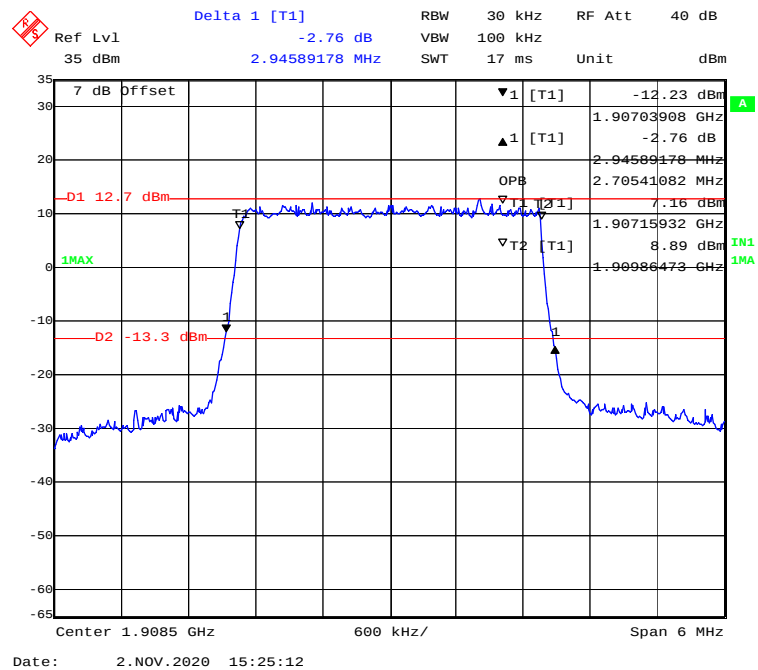
QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

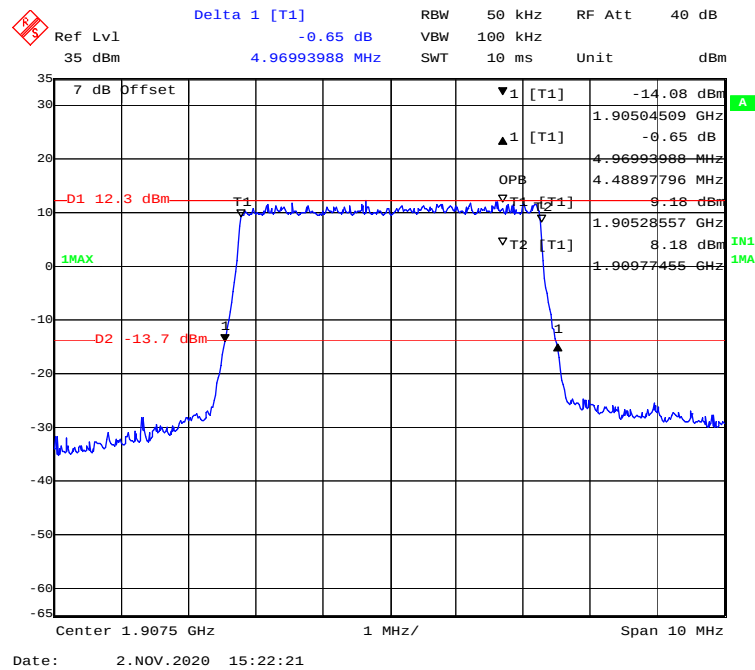
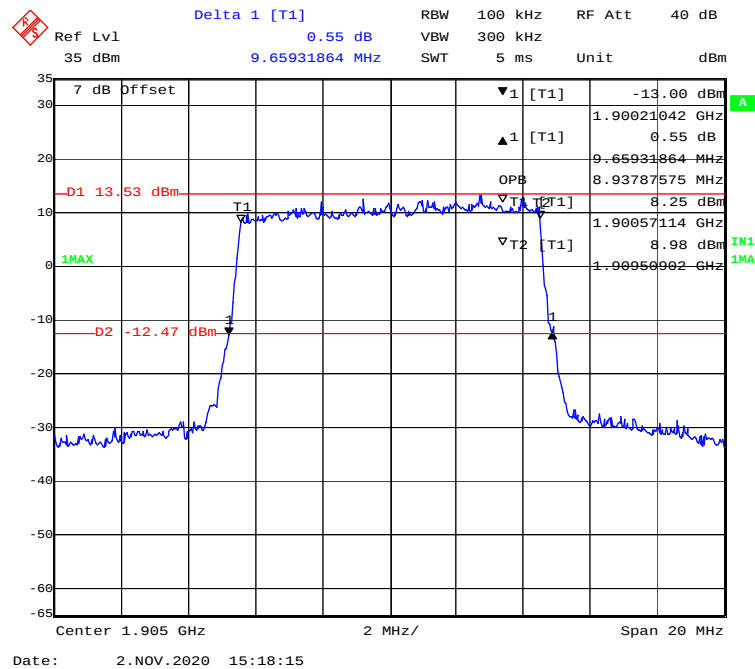


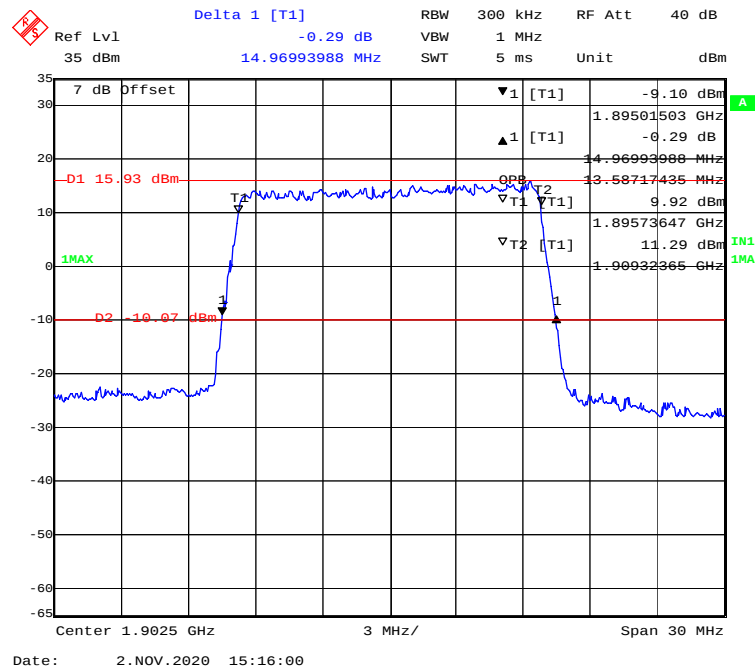
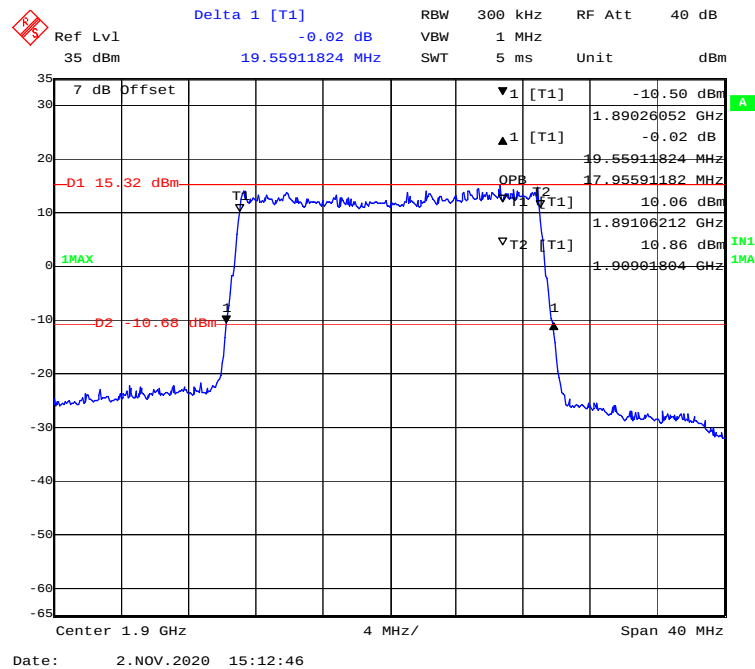
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (10MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

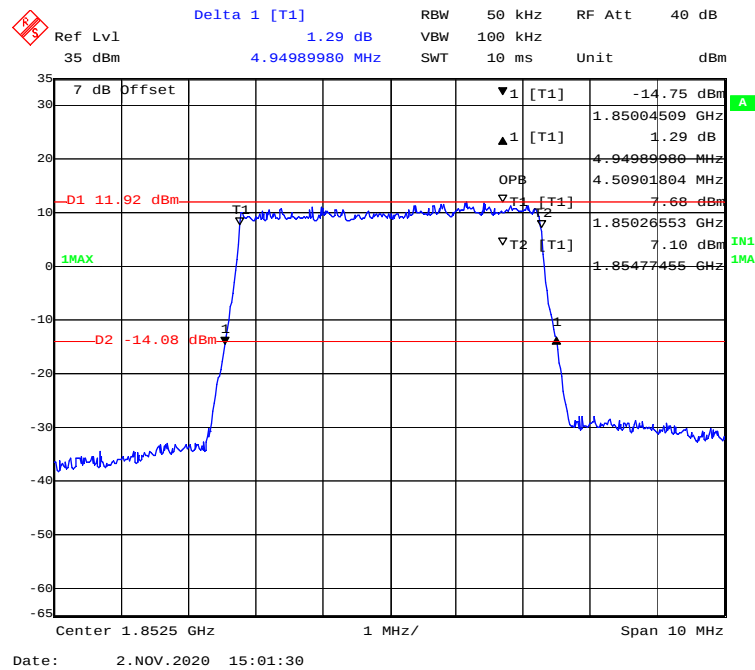
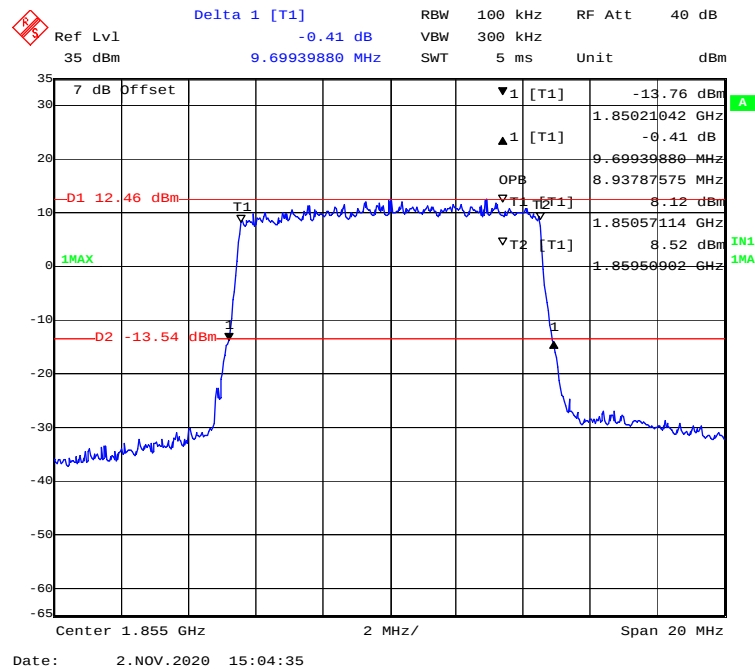
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

[illegible][illegible]

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

Delta 1 [T1] -2.57 dB

RBW 300 kHz RF Att 40 dB

Ref Lvl 35 dBm Unit dBm

SWT 5 ms

7 dB Offset

OPB

D1 14.99 dBm

D2 -11.01 dBm

IMAX

▼1 [T1] -9.91 dBm

▲1 [T1] -2.57 dB

14.96993988 MHz

13.52705411 MHz

9.60 dBm

1.85007515 GHz

8.19 dBm

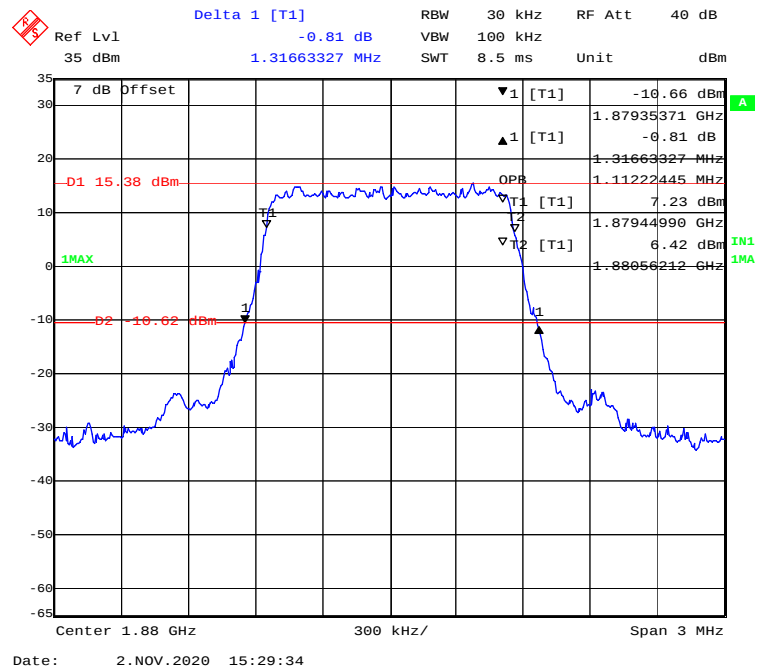
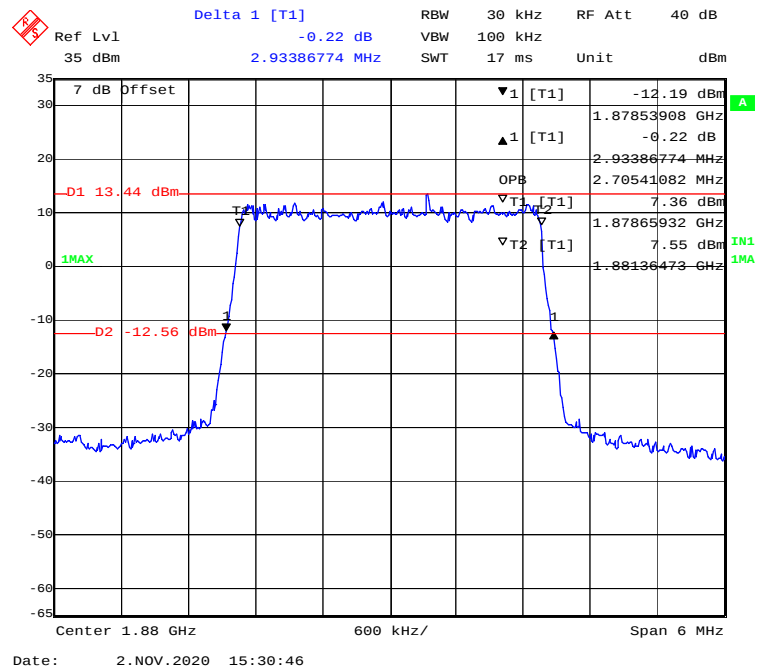
1.86432365 GHz

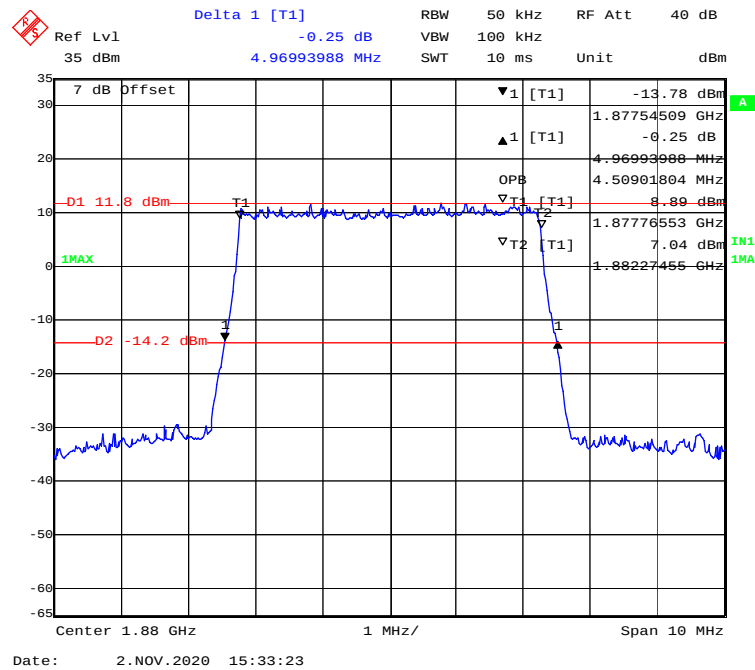
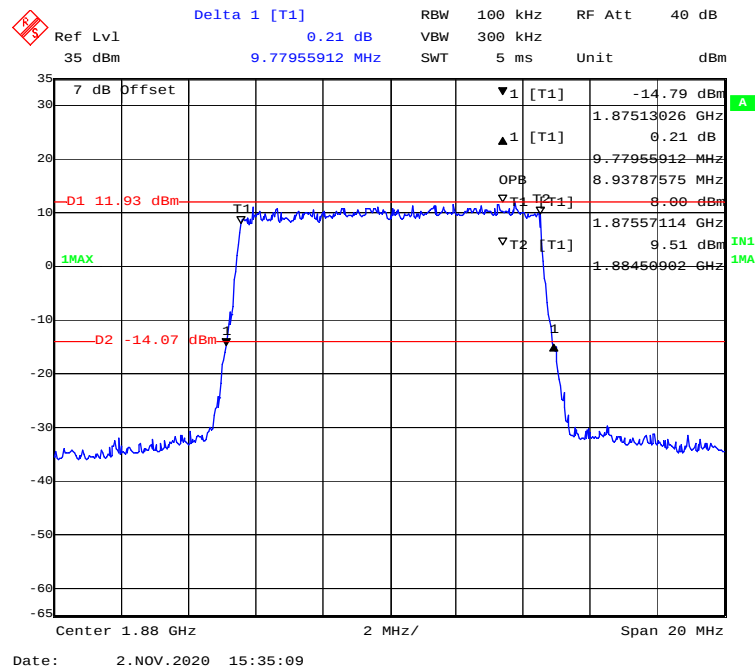
Center 1.8575 GHz 3 MHz/ Span 30 MHz

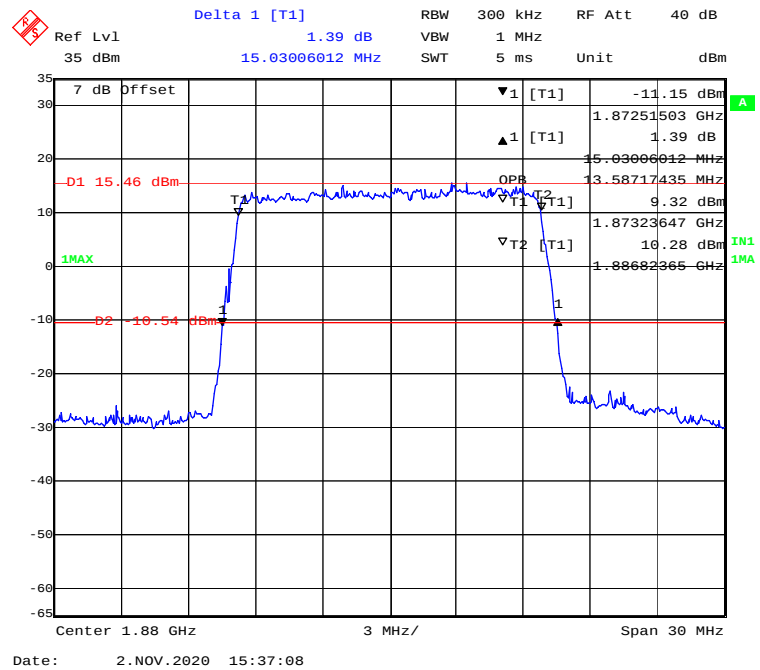
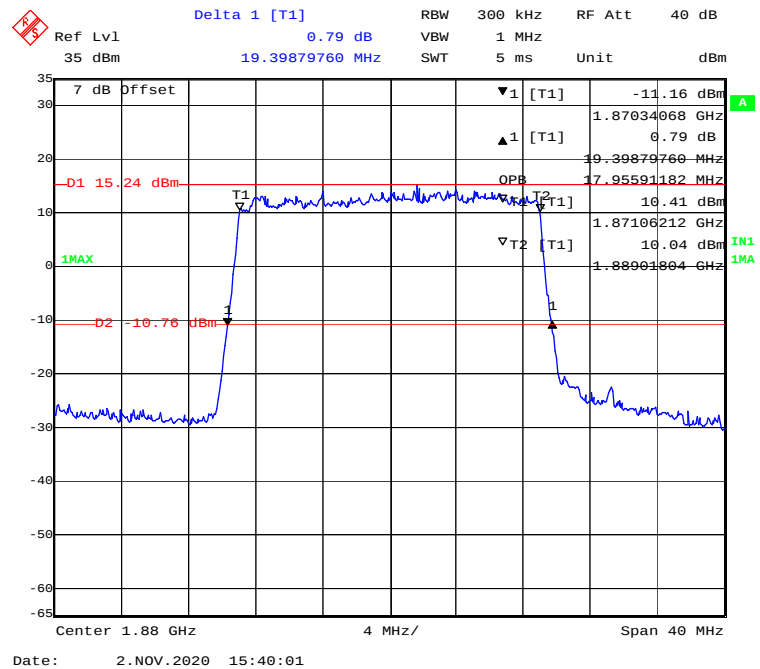
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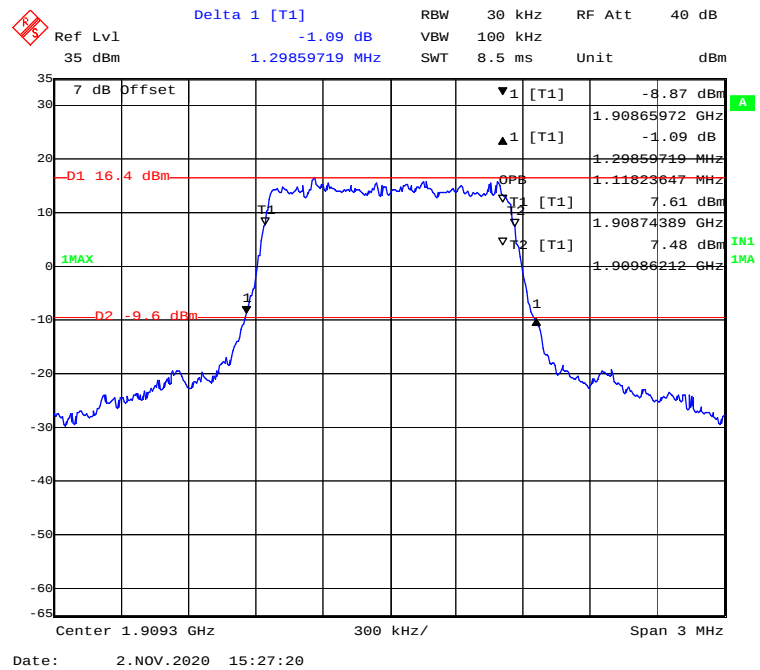
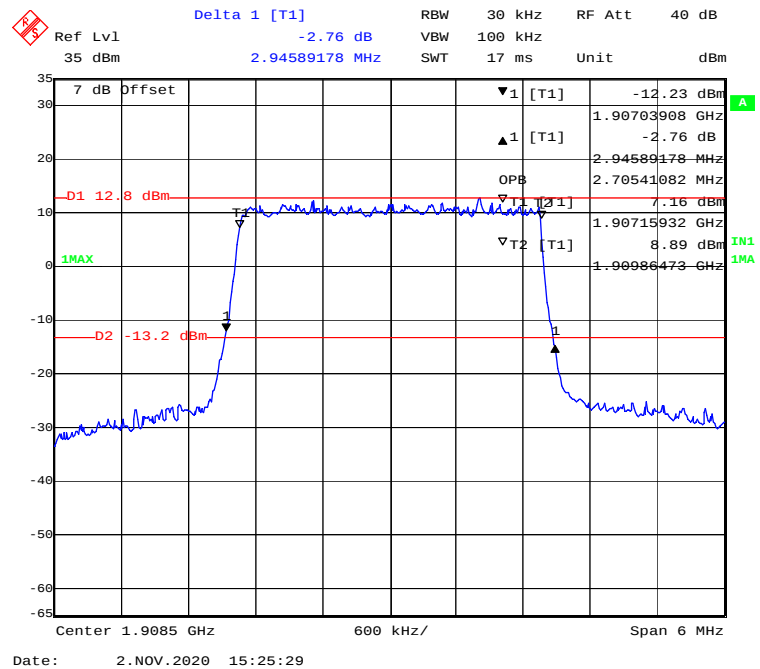
Ref Lvl 35 dBm Delta 1 [T1] -0.76 dB RBW 300 kHz RF Att 40 dB

35 dBm 1.85 GHz 1.87 GHz 1.89 GHz 1.91 GHz 1.93 GHz 1.95 GHz 1.97 GHz 1.99 GHz 2.01 GHz 2.03 GHz 2.05 GHz 2.07 GHz 2.09 GHz 2.11 GHz 2.13 GHz 2.15 GHz 2.17 GHz 2.19 GHz 2.21 GHz 2.23 GHz 2.25 GHz 2.27 GHz 2.29 GHz 2.31 GHz 2.33 GHz 2.35 GHz 2.37 GHz 2.39 GHz 2.41 GHz 2.43 GHz 2.45 GHz 2.47 GHz 2.49 GHz 2.51 GHz 2.53 GHz 2.55 GHz 2.57 GHz 2.59 GHz 2.61 GHz 2.63 GHz 2.65 GHz 2.67 GHz 2.69 GHz 2.71 GHz 2.73 GHz 2.75 GHz 2.77 GHz 2.79 GHz 2.81 GHz 2.83 GHz 2.85 GHz 2.87 GHz 2.89 GHz 2.91 GHz 2.93 GHz 2.95 GHz 2.97 GHz 2.99 GHz 3.01 GHz 3.03 GHz 3.05 GHz 3.07 GHz 3.09 GHz 3.11 GHz 3.13 GHz 3.15 GHz 3.17 GHz 3.19 GHz 3.21 GHz 3.23 GHz 3.25 GHz 3.27 GHz 3.29 GHz 3.31 GHz 3.33 GHz 3.35 GHz 3.37 GHz 3.39 GHz 3.41 GHz 3.43 GHz 3.45 GHz 3.47 GHz 3.49 GHz 3.51 GHz 3.53 GHz 3.55 GHz 3.57 GHz 3.59 GHz 3.61 GHz 3.63 GHz 3.65 GHz 3.67 GHz 3.69 GHz 3.71 GHz 3.73 GHz 3.75 GHz 3.77 GHz 3.79 GHz 3.81 GHz 3.83 GHz 3.85 GHz 3.87 GHz 3.89 GHz 3.91 GHz 3.93 GHz 3.95 GHz 3.97 GHz 3.99 GHz 4.01 GHz 4.03 GHz 4.05 GHz 4.07 GHz 4.09 GHz 4.11 GHz 4.13 GHz 4.15 GHz 4.17 GHz 4.19 GHz 4.21 GHz 4.23 GHz 4.25 GHz 4.27 GHz 4.29 GHz 4.31 GHz 4.33 GHz 4.35 GHz 4.37 GHz 4.39 GHz 4.41 GHz 4.43 GHz 4.45 GHz 4.47 GHz 4.49 GHz 4.51 GHz 4.53 GHz 4.55 GHz 4.57 GHz 4.59 GHz 4.61 GHz 4.63 GHz 4.65 GHz 4.67 GHz 4.69 GHz 4.71 GHz 4.73 GHz 4.75 GHz 4.77 GHz 4.79 GHz 4.81 GHz 4.83 GHz 4.85 GHz 4.87 GHz 4.89 GHz 4.91 GHz 4.93 GHz 4.95 GHz 4.97 GHz 4.99 GHz 5.01 GHz 5.03 GHz 5.05 GHz 5.07 GHz 5.09 GHz 5.11 GHz 5.13 GHz 5.15 GHz 5.17 GHz 5.19 GHz 5.21 GHz 5.23 GHz 5.25 GHz 5.27 GHz 5.29 GHz 5.31 GHz 5.33 GHz 5.35 GHz 5.37 GHz 5.39 GHz 5.41 GHz 5.43 GHz 5.45 GHz 5.47 GHz 5.49 GHz 5.51 GHz 5.53 GHz 5.55 GHz 5.57 GHz 5.59 GHz 5.61 GHz 5.63 GHz 5.65 GHz 5.67 GHz 5.69 GHz 5.71 GHz 5.73 GHz 5.75 GHz 5.77 GHz 5.79 GHz 5.81 GHz 5.83 GHz 5.85 GHz 5.87 GHz 5.89 GHz 5.91 GHz 5.93 GHz 5.95 GHz 5.97 GHz 5.99 GHz 6.01 GHz 6.03 GHz 6.05 GHz 6.07 GHz 6.09 GHz 6.11 GHz 6.13 GHz 6.15 GHz 6.17 GHz 6.19 GHz 6.21 GHz 6.23 GHz 6.25 GHz 6.27 GHz 6.29 GHz 6.31 GHz 6.33 GHz 6.35 GHz 6.37 GHz 6.39 GHz 6.41 GHz 6.43 GHz 6.45 GHz 6.47 GHz 6.49 GHz 6.51 GHz 6.53 GHz 6.55 GHz 6.57 GHz 6.59 GHz 6.61 GHz 6.63 GHz 6.65 GHz 6.67 GHz 6.69 GHz 6.71 GHz 6.73 GHz 6.75 GHz 6.77 GHz 6.79 GHz 6.81 GHz 6.83 GHz 6.85 GHz 6.87 GHz 6.89 GHz 6.91 GHz 6.93 GHz 6.95 GHz 6.97 GHz 6.99 GHz 7.01 GHz 7.03 GHz 7.05 GHz 7.07 GHz 7.09 GHz 7.11 GHz 7.13 GHz 7.15 GHz 7.17 GHz 7.19 GHz 7.21 GHz 7.23 GHz 7.25 GHz 7.27 GHz 7.29 GHz 7.31 GHz 7.33 GHz 7.35 GHz 7.37 GHz 7.39 GHz 7.41 GHz 7.43 GHz 7.45 GHz 7.47 GHz 7.49 GHz 7.51 GHz 7.53 GHz 7.55 GHz 7.57 GHz 7.59 GHz 7.61 GHz 7.63 GHz 7.65 GHz 7.67 GHz 7.69 GHz 7.71 GHz 7.73 GHz 7.75 GHz 7.77 GHz 7.79 GHz 7.81 GHz 7.83 GHz 7.85 GHz 7.87 GHz 7.89 GHz 7.91 GHz 7.93 GHz 7.95 GHz 7.97 GHz 7.99 GHz 8.01 GHz 8.03 GHz 8.05 GHz 8.07 GHz 8.09 GHz 8.11 GHz 8.13 GHz 8.15 GHz 8.17 GHz 8.19 GHz 8.21 GHz 8.23 GHz 8.25 GHz 8.27 GHz 8.29 GHz 8.31 GHz 8.33 GHz 8.35 GHz 8.37 GHz 8.39 GHz 8.41 GHz 8.43 GHz 8.45 GHz 8.47 GHz 8.49 GHz 8.51 GHz 8.53 GHz 8.55 GHz 8.57 GHz 8.59 GHz 8.61 GHz 8.63 GHz 8.65 GHz 8.67 GHz 8.69 GHz 8.71 GHz 8.73 GHz 8.75 GHz 8.77 GHz 8.79 GHz 8.81 GHz 8.83 GHz 8.85 GHz 8.87 GHz 8.89 GHz 8.91 GHz 8.93 GHz 8.95 GHz 8.97 GHz 8.99 GHz 9.01 GHz 9.03 GHz 9.05 GHz 9.07 GHz 9.09 GHz 9.11 GHz 9.13 GHz 9.15 GHz 9.17 GHz 9.19 GHz 9.21 GHz 9.23 GHz 9.25 GHz 9.27 GHz 9.29 GHz 9.31 GHz 9.33 GHz 9.35 GHz 9.37 GHz 9.39 GHz 9.41 GHz 9.43 GHz 9.45 GHz 9.47 GHz 9.49 GHz 9.51 GHz 9.53 GHz 9.55 GHz 9.57 GHz 9.59 GHz 9.61 GHz 9.63 GHz 9.65 GHz 9.67 GHz 9.69 GHz 9.71 GHz 9.73 GHz 9.75 GHz 9.77 GHz 9.79 GHz 9.81 GHz 9.83 GHz 9.85 GHz 9.87 GHz 9.89 GHz 9.91 GHz 9.93 GHz 9.95 GHz 9.97 GHz 9.99 GHz 10.01 GHz 10.03 GHz 10.05 GHz 10.07 GHz 10.09 GHz 10.11 GHz 10.13 GHz 10.15 GHz 10.17 GHz 10.19 GHz 10.21 GHz 10.23 GHz 10.25 GHz 10.27 GHz 10.29 GHz 10.31 GHz 10.33 GHz 10.35 GHz 10.37 GHz 10.39 GHz 10.41 GHz 10.43 GHz 10.45 GHz 10.47 GHz 10.49 GHz 10.51 GHz 10.53 GHz 10.55 GHz 10.57 GHz 10.59 GHz 10.61 GHz 10.63 GHz 10.65 GHz 10.67 GHz 10.69 GHz 10.71 GHz 10.73 GHz 10.75 GHz 10.77 GHz 10.79 GHz 10.81 GHz 10.83 GHz 10.85 GHz 10.87 GHz 10.89 GHz 10.91 GHz 10.93 GHz 10.95 GHz 10.97 GHz 10.99 GHz 11.01 GHz 11.03 GHz 11.05 GHz 11.07 GHz 11.09 GHz 11.11 GHz 11.13 GHz 11.15 GHz 11.17 GHz 11.19 GHz 11.21 GHz 11.23 GHz 11.25 GHz 11.27 GHz 11.29 GHz 11.31 GHz 11.33 GHz 11.35 GHz 11.37 GHz 11.39 GHz 11.41 GHz 11.43 GHz 11.45 GHz 11.47 GHz 11.49 GHz 11.51 GHz 11.53 GHz 11.55 GHz 11.57 GHz 11.59 GHz 11.61 GHz 11.63 GHz 11.65 GHz 11.67 GHz 11.69 GHz 11.71 GHz 11.73 GHz 11.75 GHz 11.77 GHz 11.79 GHz 11.81 GHz 11.83 GHz 11.85 GHz 11.87 GHz 11.89 GHz 11.91 GHz 11.93 GHz 11.95 GHz 11.97 GHz 11.99 GHz 12.01 GHz 12.03 GHz 12.05 GHz 12.07 GHz 12.09 GHz 12.11 GHz 12.13 GHz 12.15 GHz 12.17 GHz 12.19 GHz 12.21 GHz 12.23 GHz 12.25 GHz 12.27 GHz 12.29 GHz 12.31 GHz 12.33 GHz 12.35 GHz 12.37 GHz 12.39 GHz 12.41 GHz 12.43 GHz 12.45 GHz 12.47 GHz 12.49 GHz 12.51 GHz 12.53 GHz 12.55 GHz 12.57 GHz 12.59 GHz 12.61 GHz 12.63 GHz 12.65 GHz 12.67 GHz 12.69 GHz 12.71 GHz 12.73 GHz 12.75 GHz 12.77 GHz 12.79 GHz 12.81 GHz 12.83 GHz 12.85 GHz 12.87 GHz 12.89 GHz 12.91 GHz 12.93 GHz 12.95 GHz 12.97 GHz 12.99 GHz 13.01 GHz 13.03 GHz 13.05 GHz 13.07 GHz 13.09 GHz 13.11 GHz 13.13 GHz 13.15 GHz 13.17 GHz 13.19 GHz 13.21 GHz 13.23 GHz 13.25 GHz 13.27 GHz 13.29 GHz 13.31 GHz 13.33 GHz 13.35 GHz 13.37 GHz 13.39 GHz 13.41 GHz 13.43 GHz 13.45 GHz 13.47 GHz 13.49 GHz 13.51 GHz 13.53 GHz 13.55 GHz 13.57 GHz 13.59 GHz 13.61 GHz 13.63 GHz 13.65 GHz 13.67 GHz 13.69 GHz 13.71 GHz 13.73 GHz 13.75 GHz 13.77 GHz 13.79 GHz 13.81 GHz 13.83 GHz 13.85 GHz 13.87 GHz 13.89 GHz 13.91 GHz 13.93 GHz 13.95 GHz 13.97 GHz 13.99 GHz 14.01 GHz 14.03 GHz 14.05 GHz 14.07 GHz 14.09 GHz 14.11 GHz 14.13 GHz

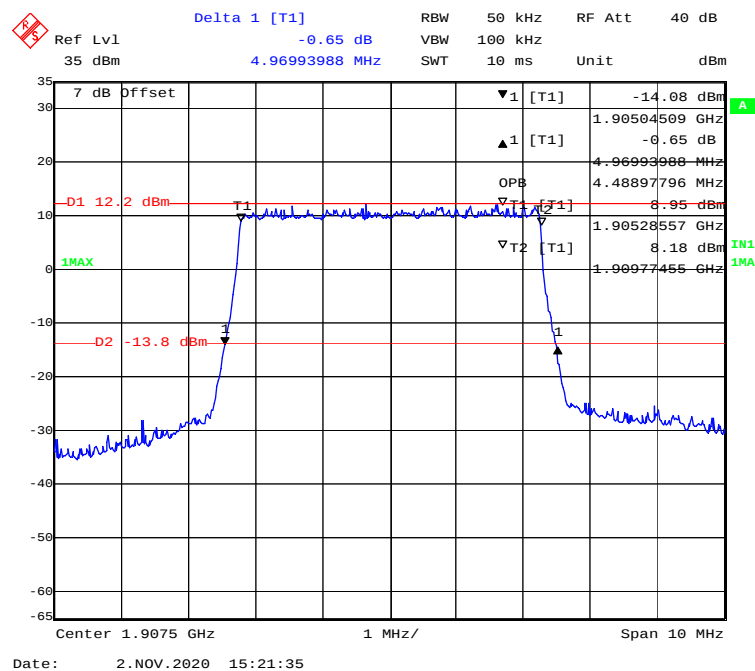
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

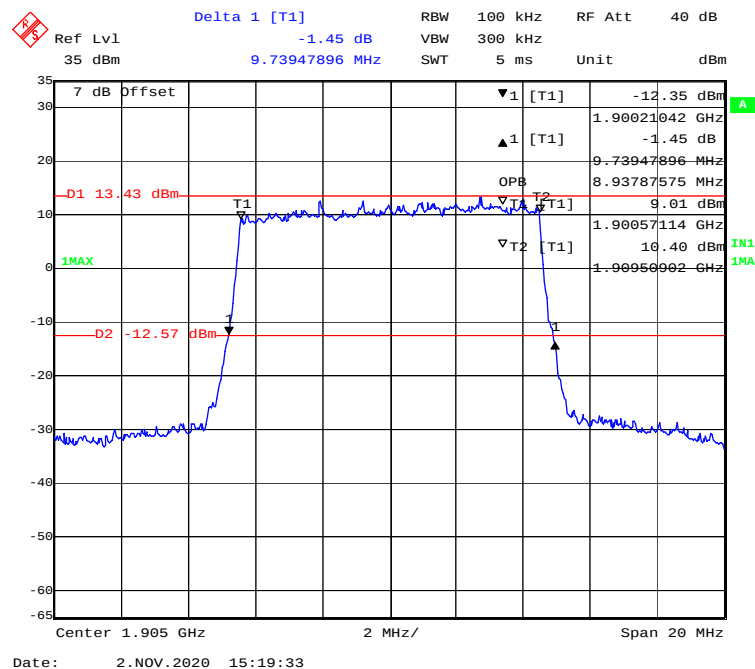
16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



Delta 1 [T1] -1.41 dB

Ref Lvl 35 dBm

14.96993988 MHz

RBW 300 kHz

VBW 1 MHz

SWT 5 ms

RF Att 40 dB

Unit dBm

7 dB Offset

D1 15.63 dBm

D2 10.37 dBm

1MAX

1MIN

Center 1.9025 GHz

3 MHz/

Span 30 MHz

Date: 2.NOV.2020 15:15:23

Delta 1 [T1] -0.02 dB

Ref Lvl 35 dBm

RBW 300 kHz

RF Att 40 dB

Unit dBm

SWT 5 ms

7 dB Offset

D1 15.42 dBm

1MAX

D2 -10.50 dBm

T1 10.13 dBm

T2 10.86 dBm

IN1 1.89106212 GHz

IN2 1.89091804 GHz

1

2

Center 1.9 GHz

4 MHz/

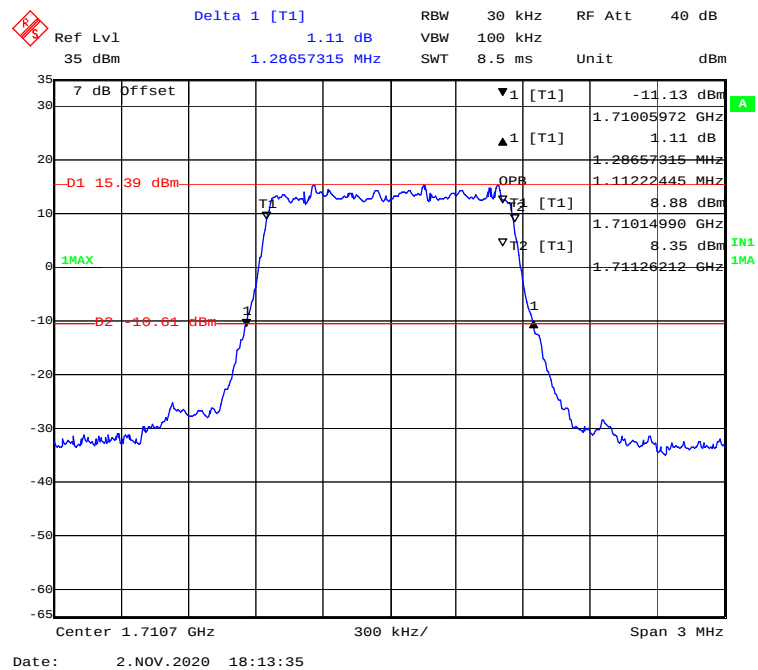
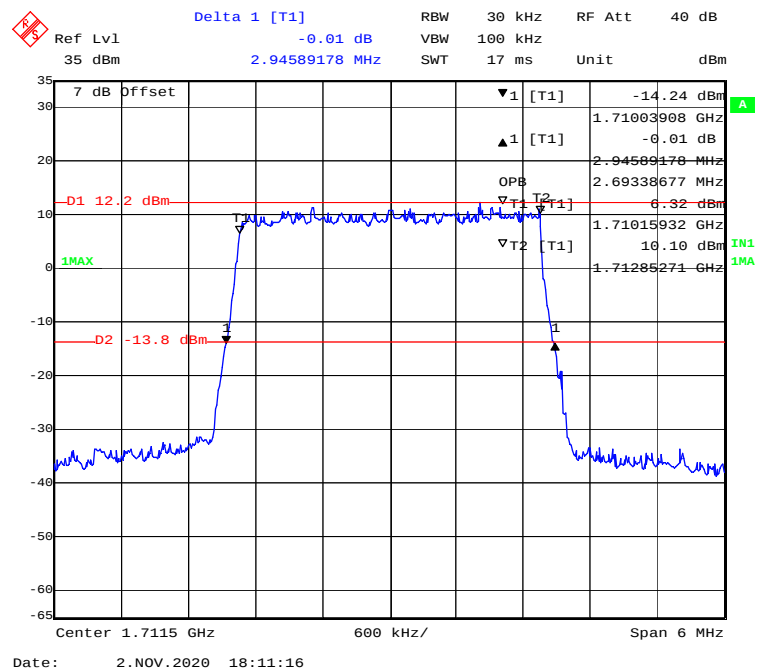
Span 40 MHz

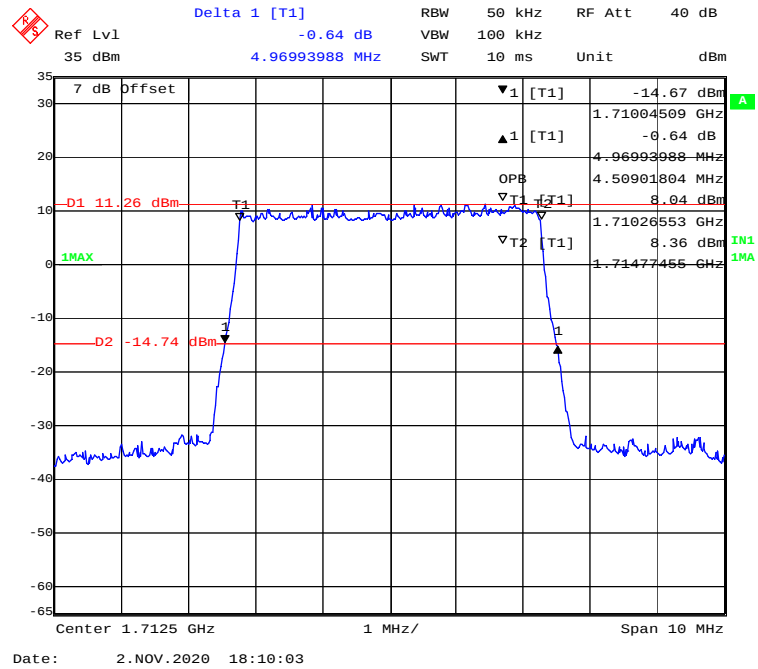
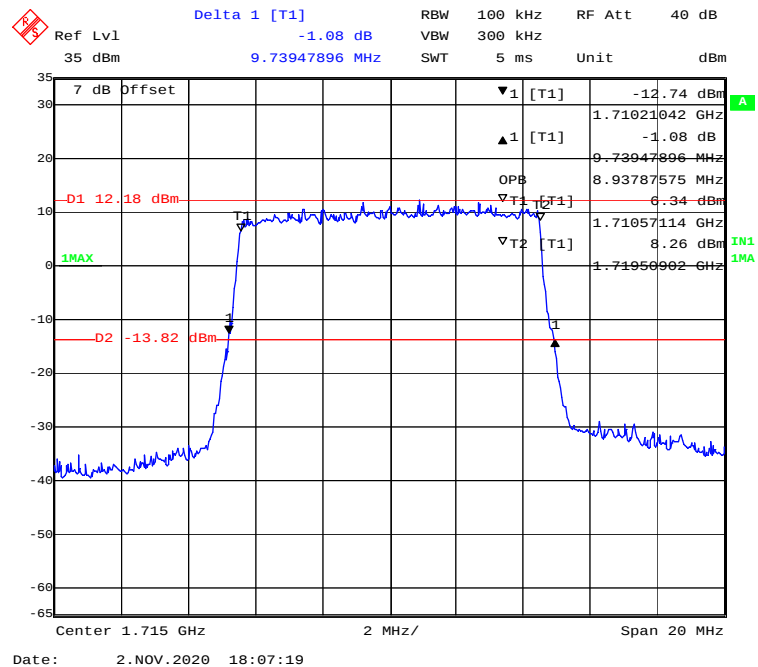
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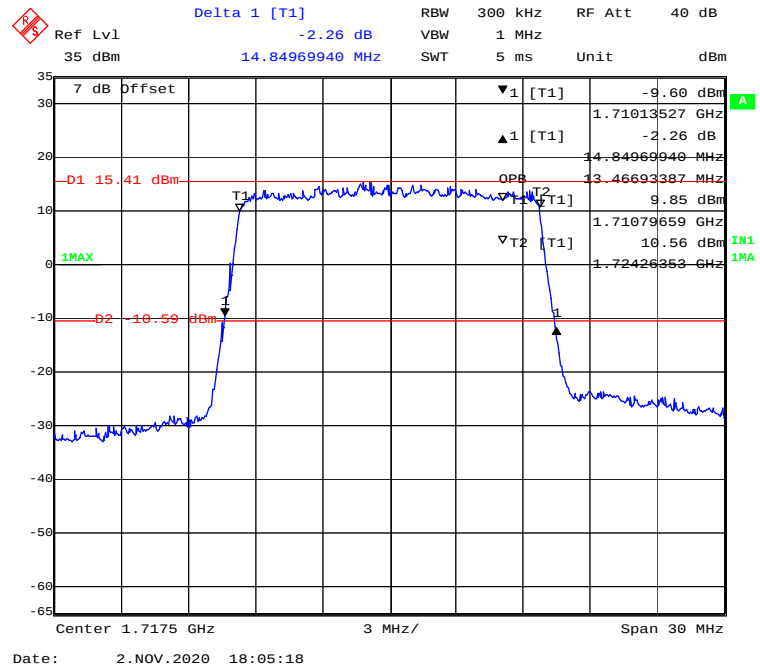
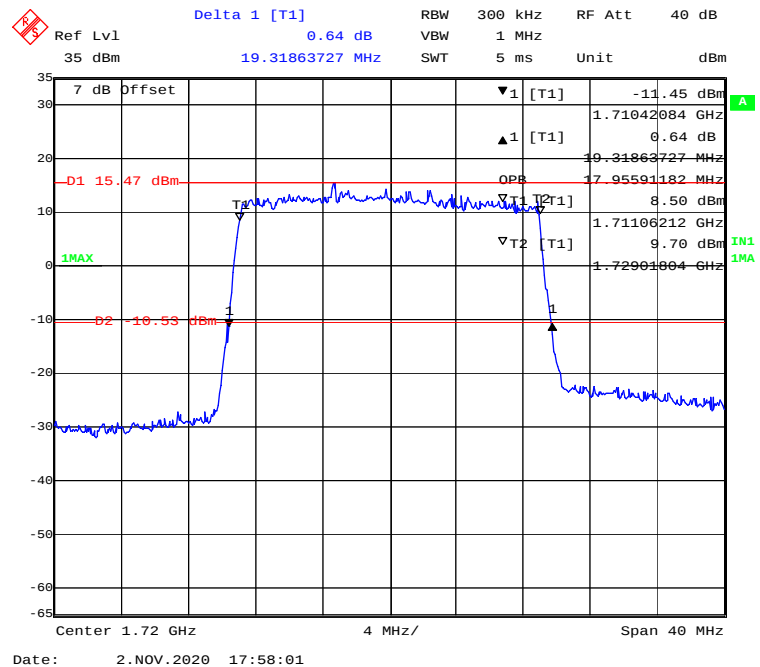
LTE Band 4:

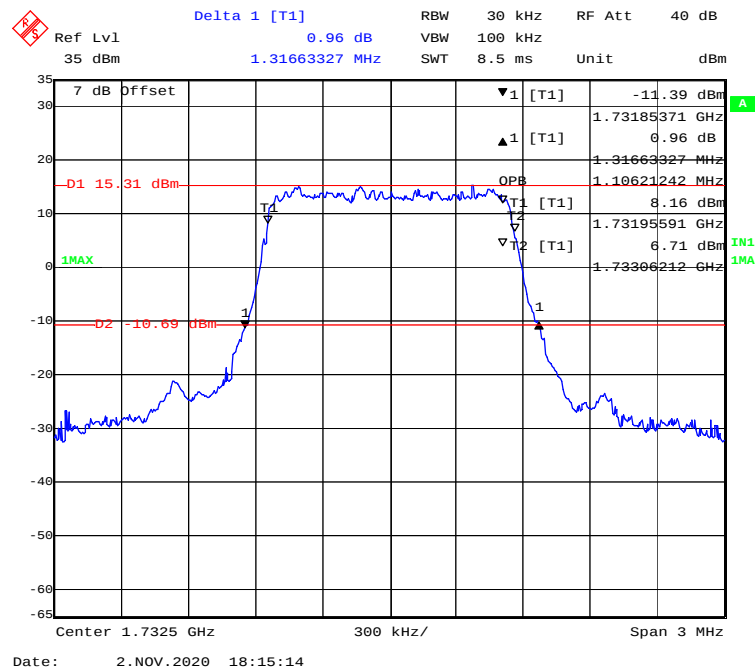
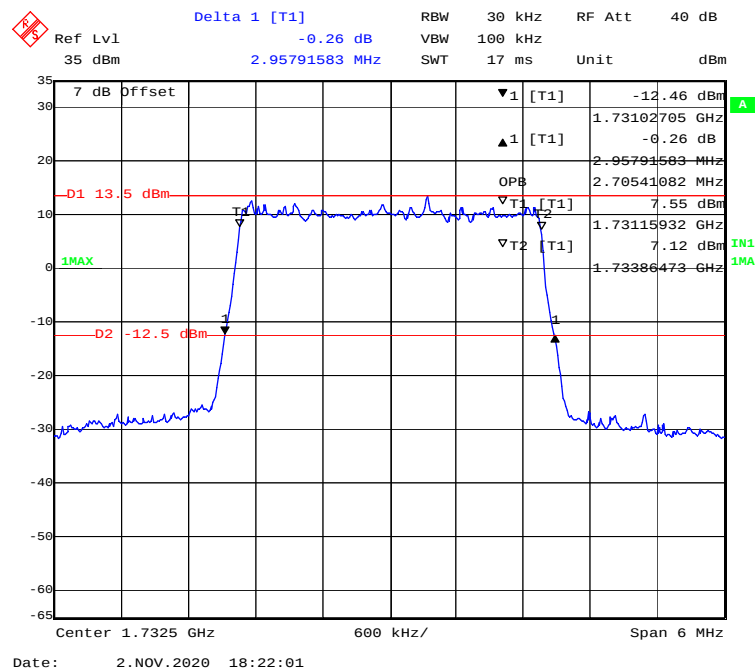
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	1.4M	Low	1.287	1.112
	3M		2.946	2.693
	5M		4.970	4.509
	10M		9.739	8.938
	15M		14.850	13.467
	20M		19.319	17.956
	1.4M	Middle	1.317	1.106
	3M		2.958	2.705
	5M		4.950	4.509
	10M		9.820	8.978
	15M		14.970	13.587
	20M		19.479	18.036
	1.4M	High	1.341	1.110
	3M		2.934	2.705
	5M		4.950	4.509
	10M		9.820	8.938
	15M		14.910	13.527
	20M		19.479	17.956

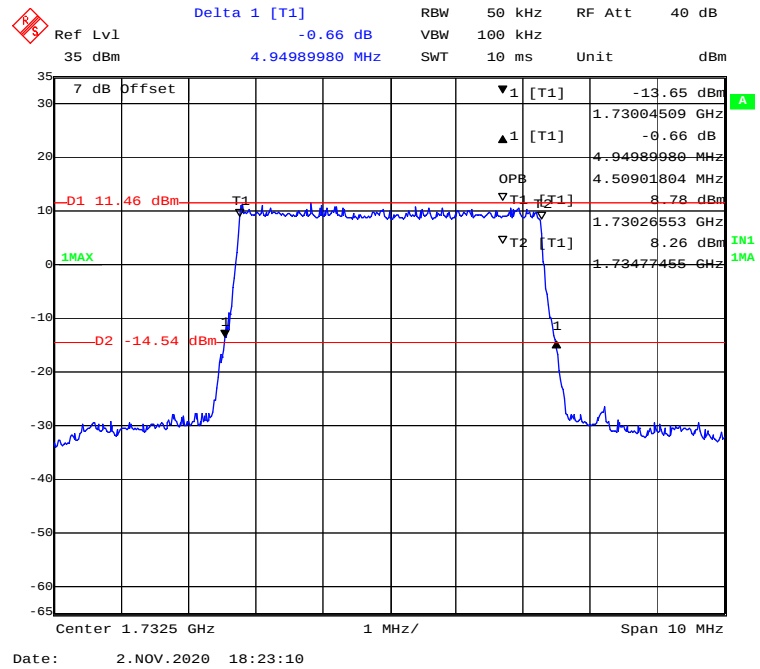
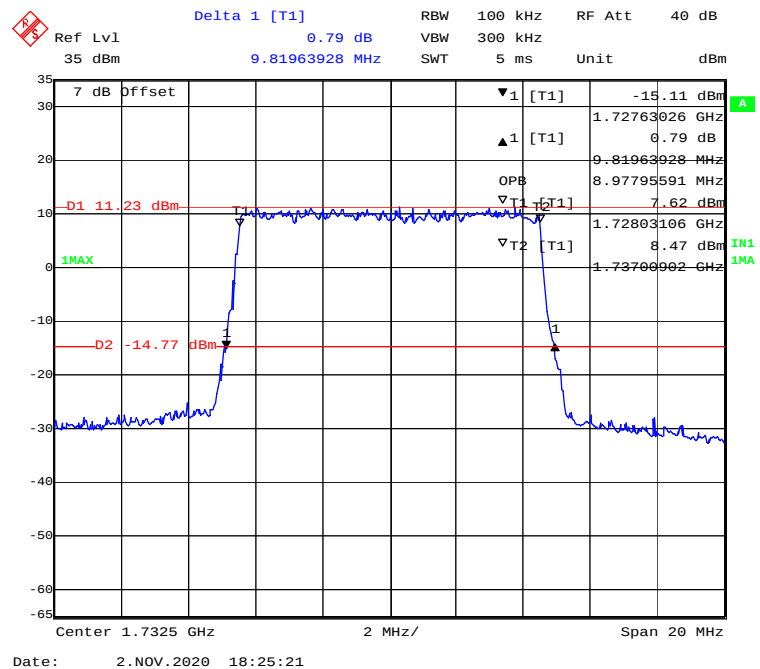
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
16-QAM	1.4M	Low	1.287	1.112
	3M		2.946	2.705
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	15M		14.850	13.467
	20M		19.319	17.956
	1.4M	Middle	1.317	1.112
	3M		2.958	2.705
	5M		4.950	4.509
	10M		9.820	8.978
	15M		14.910	13.587
	20M		19.559	18.036
	1.4M	High	1.341	1.110
	3M		2.922	2.705
	5M		4.950	4.509
	10M		9.820	8.938
	15M		14.910	13.527
	20M		19.479	17.956

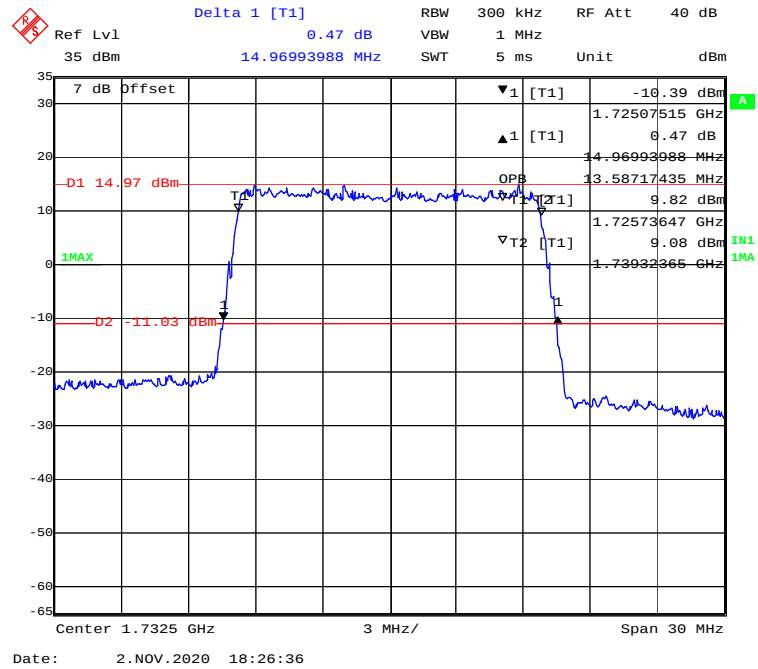
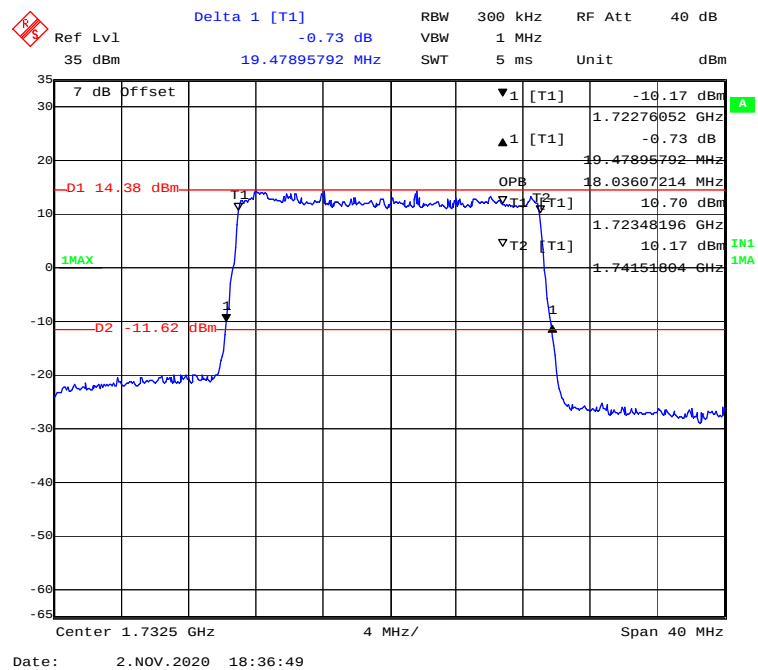
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

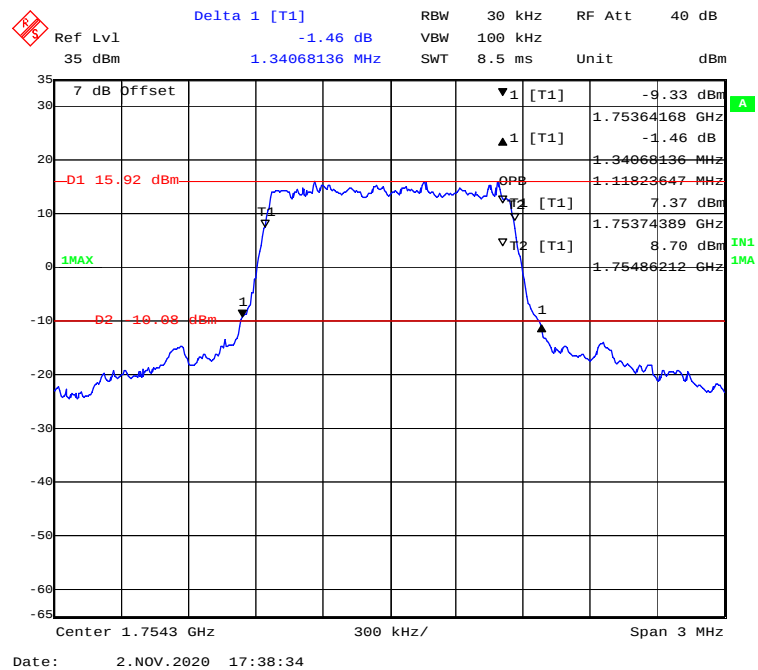
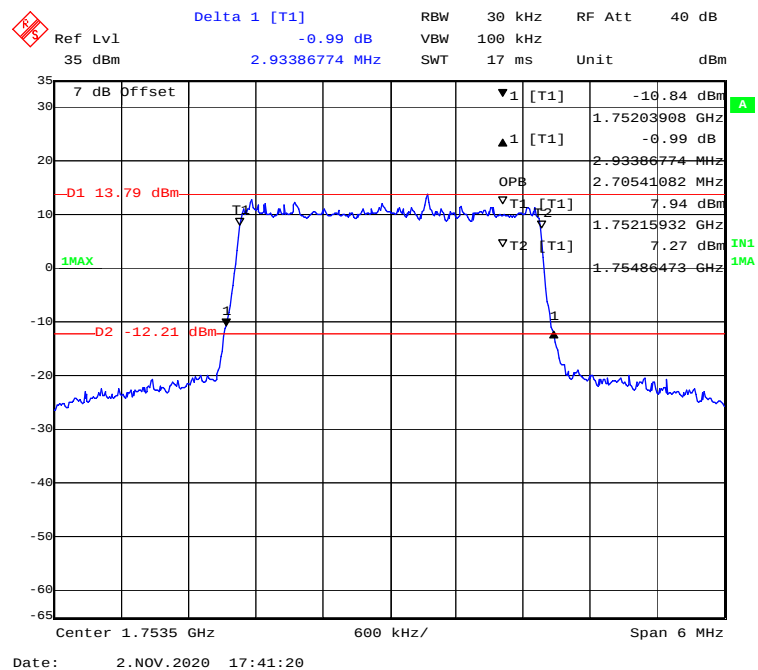
QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

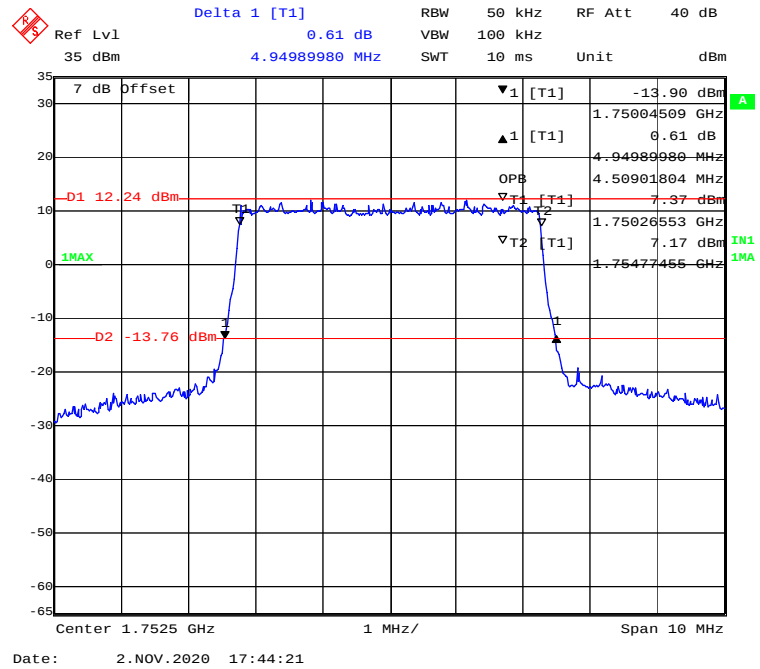
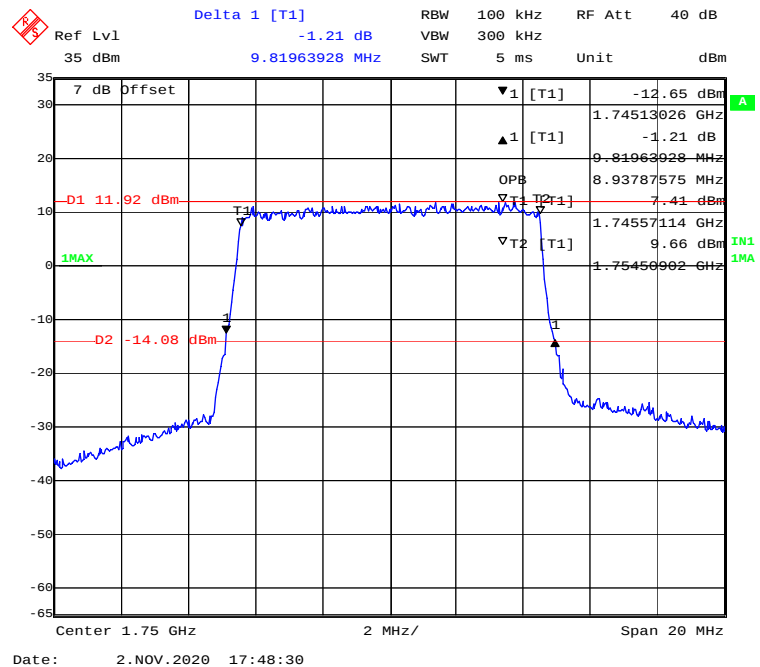
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

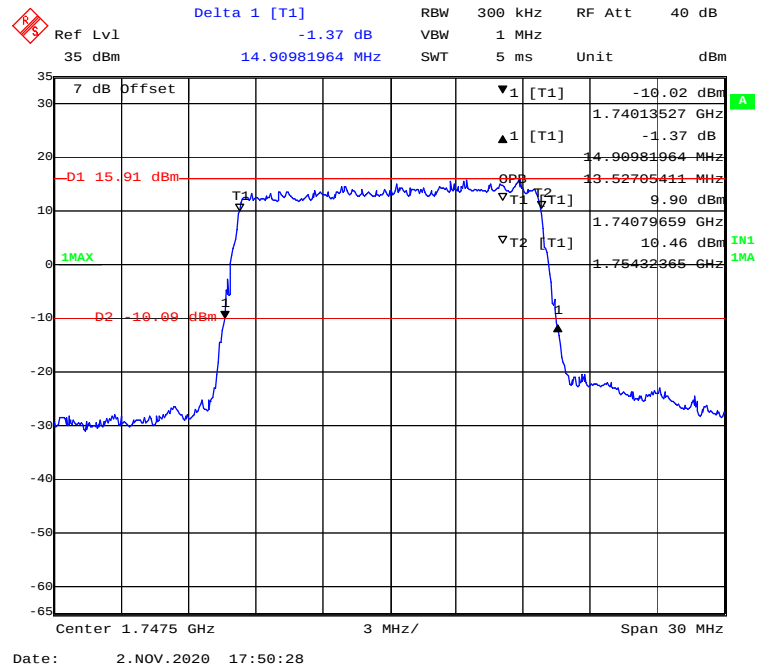
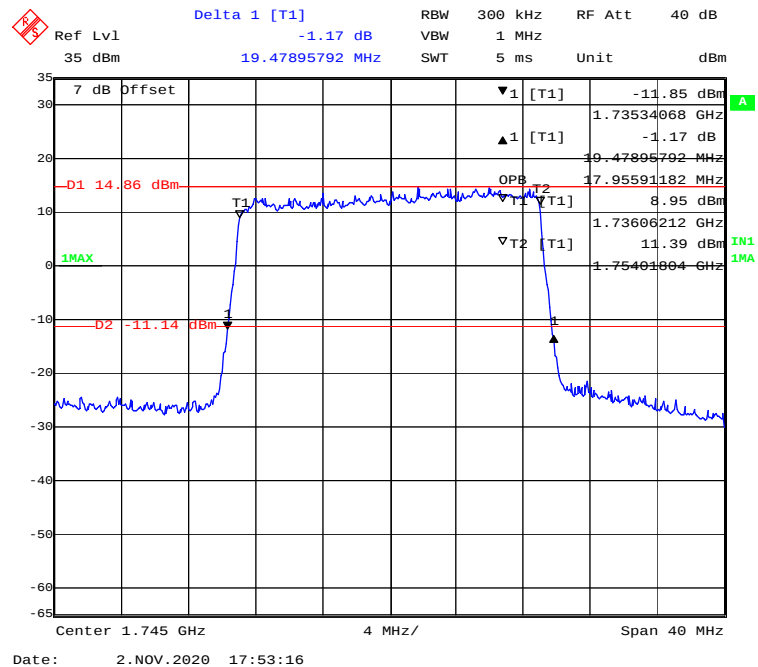
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

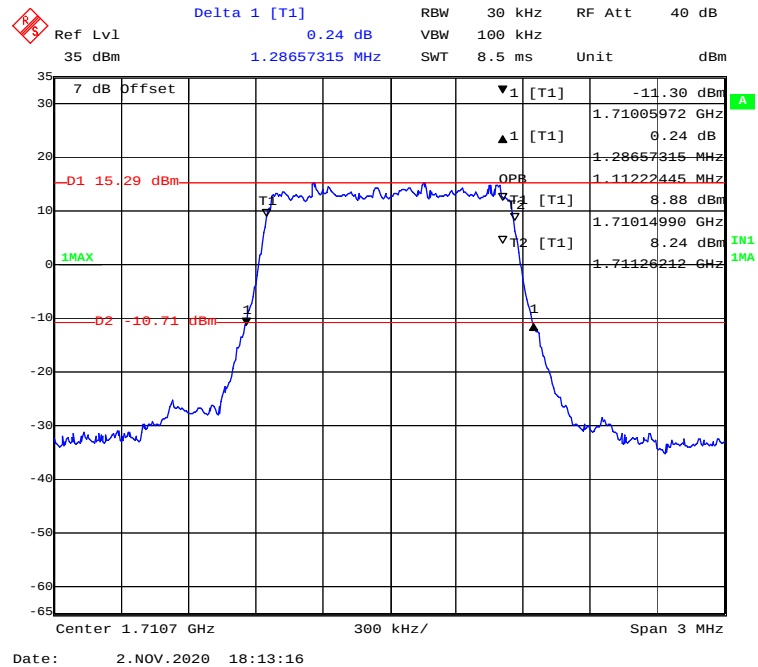
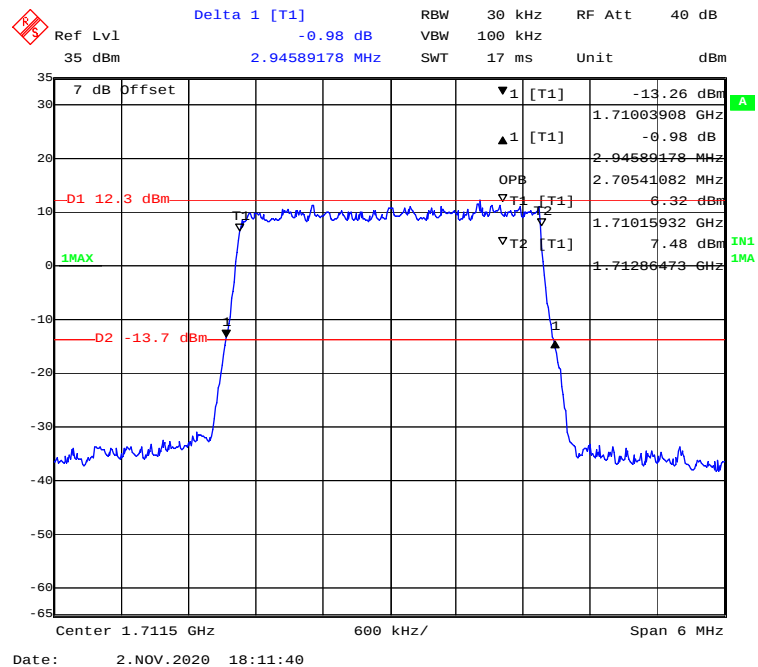
QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

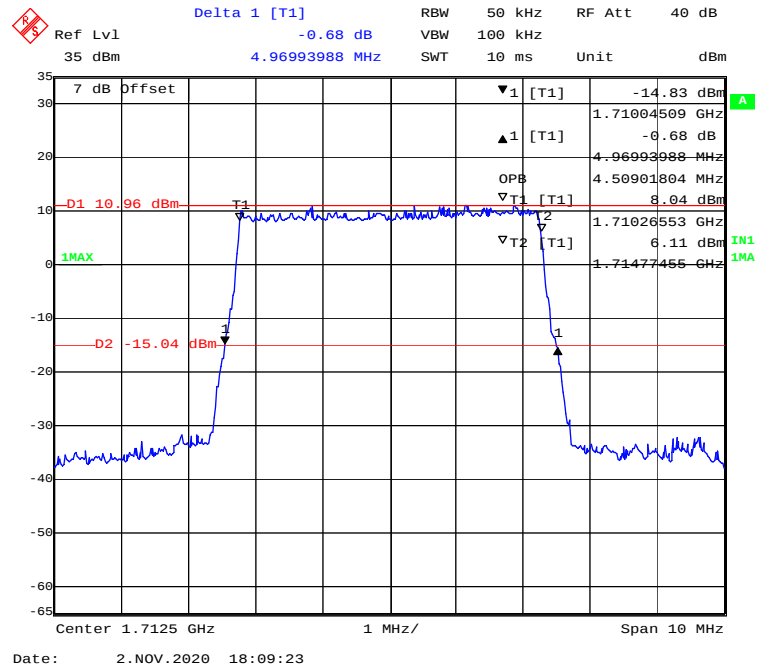
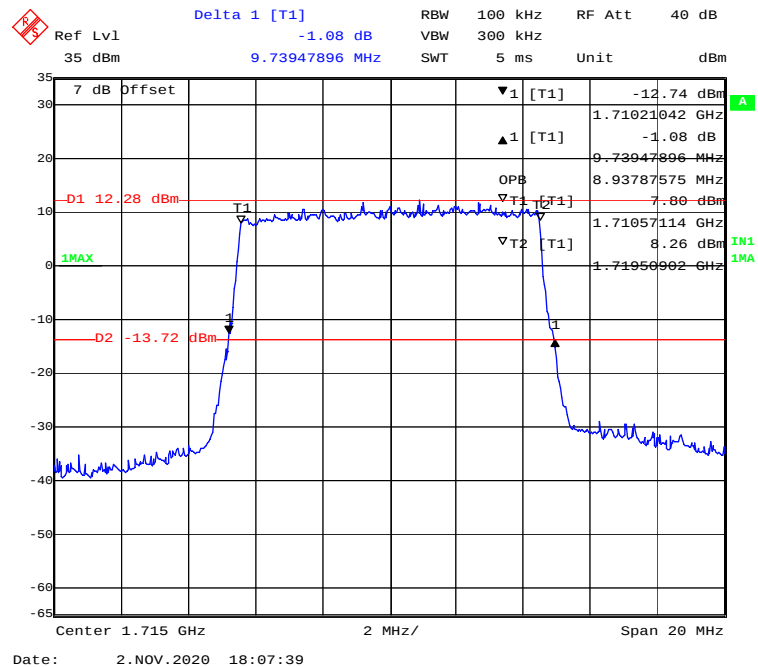
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

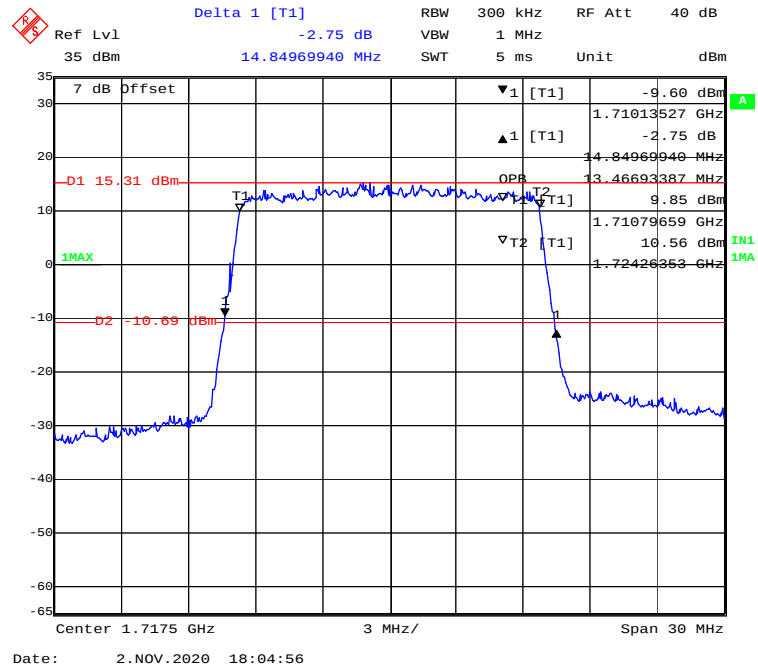
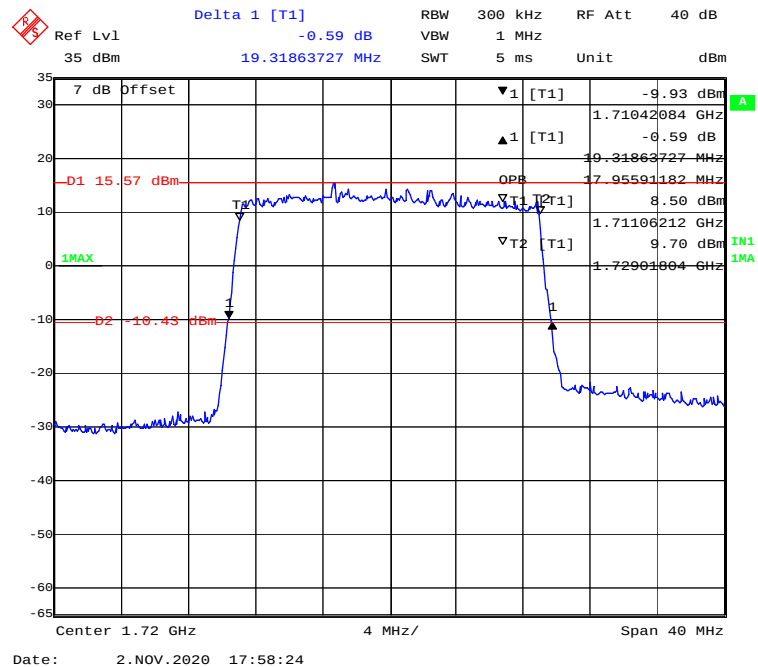
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

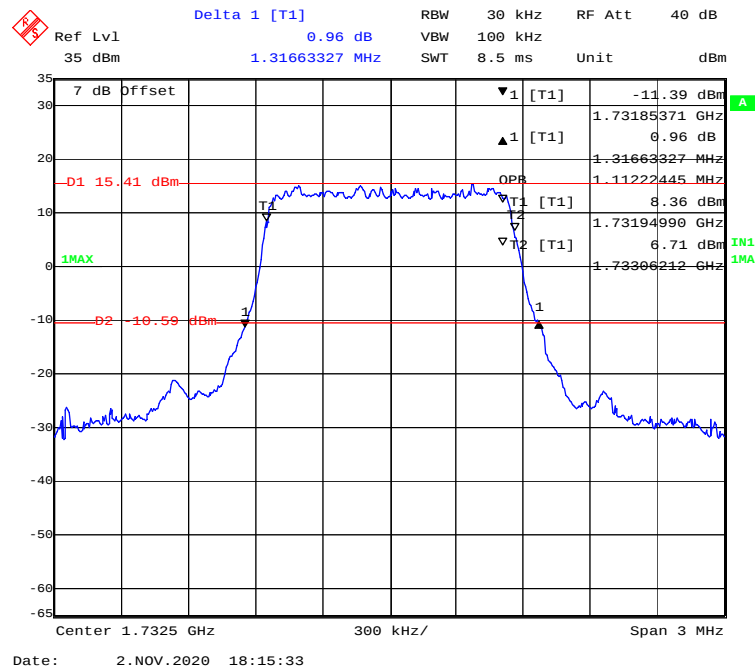
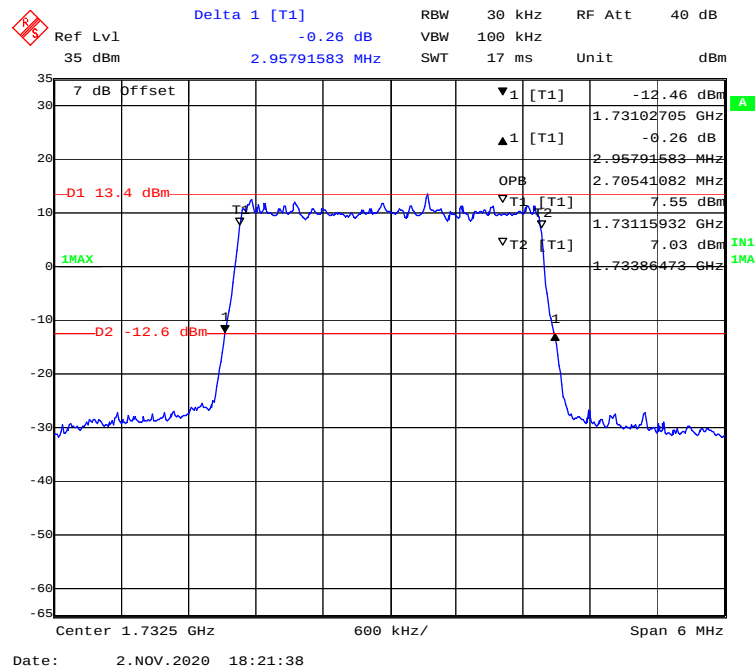
QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

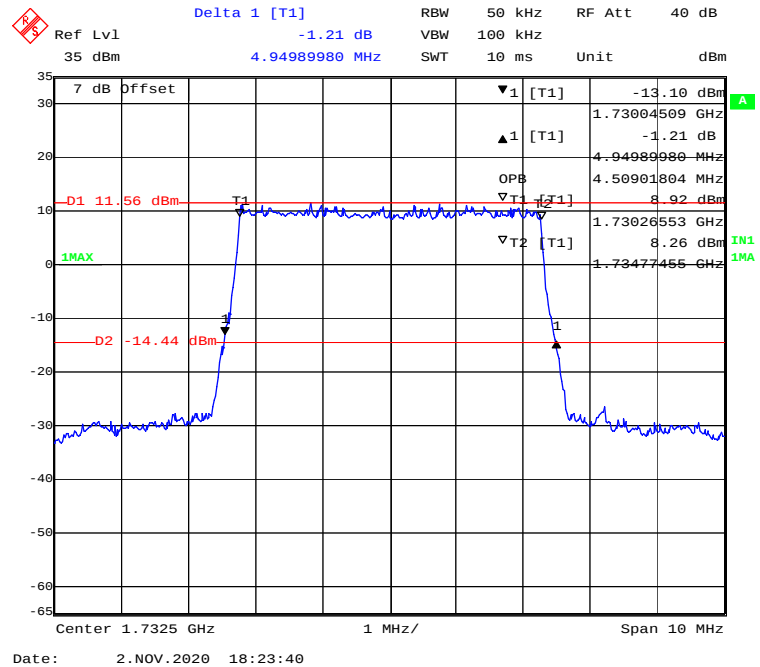
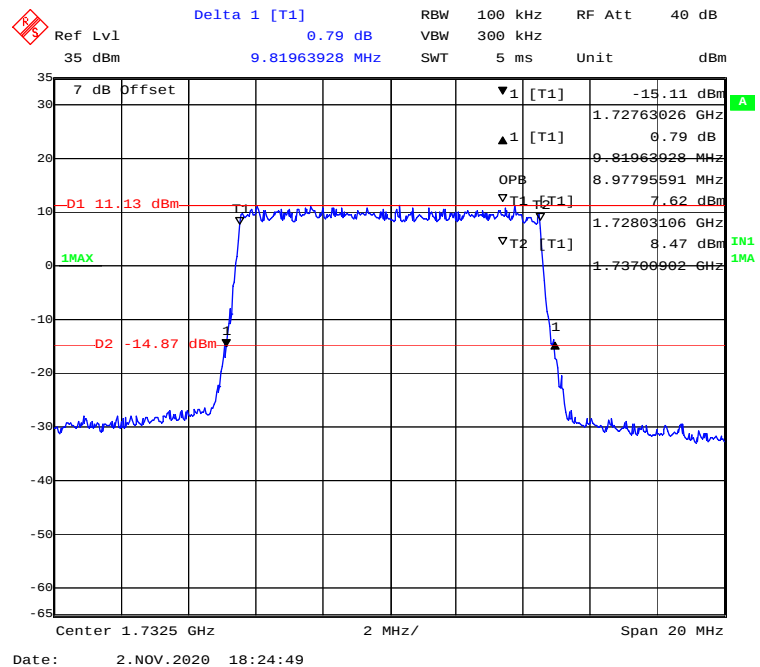
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

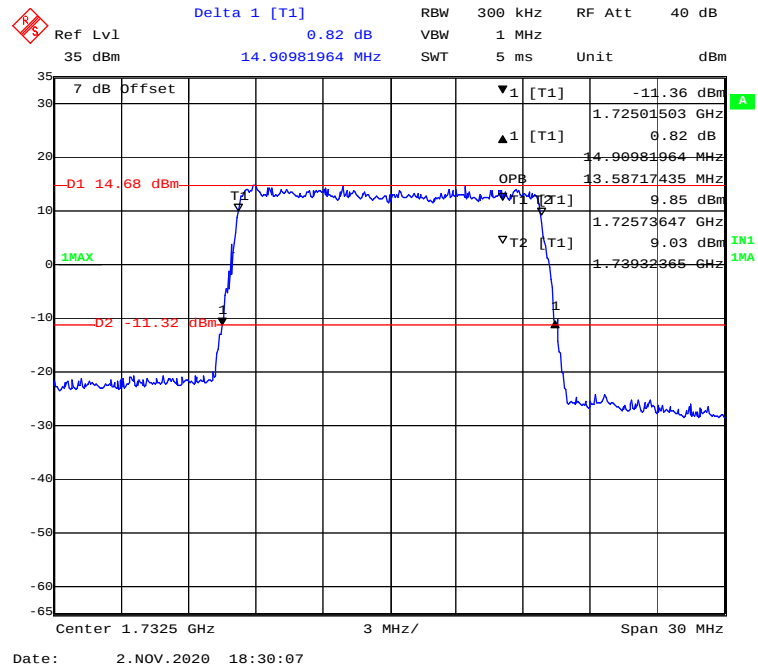
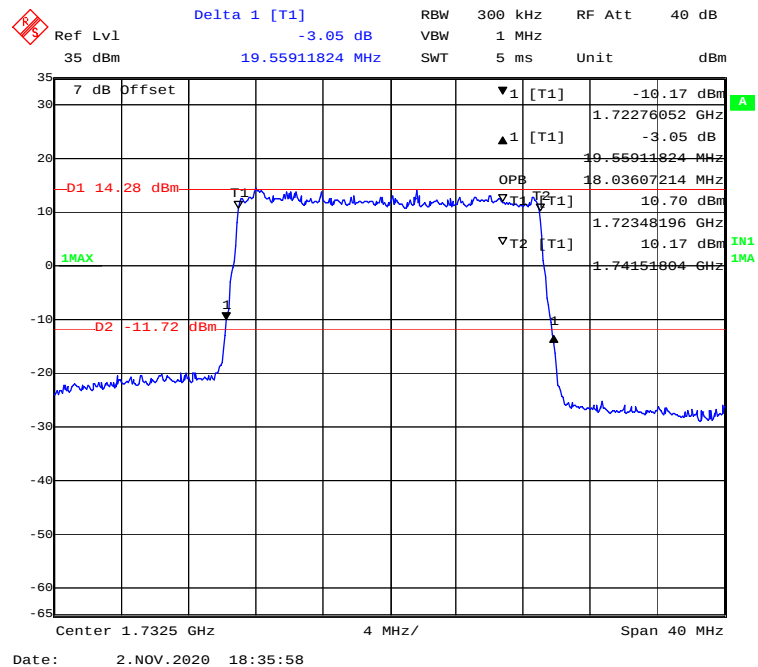
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

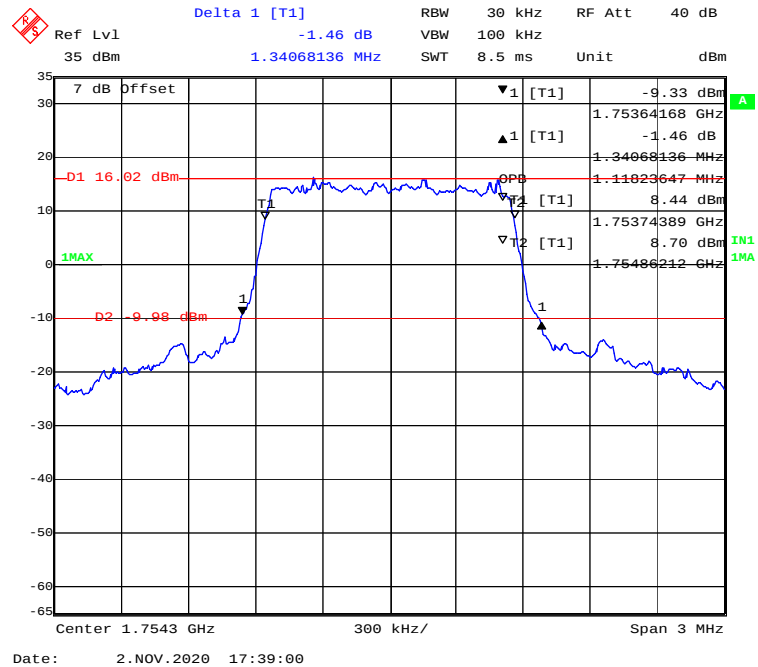
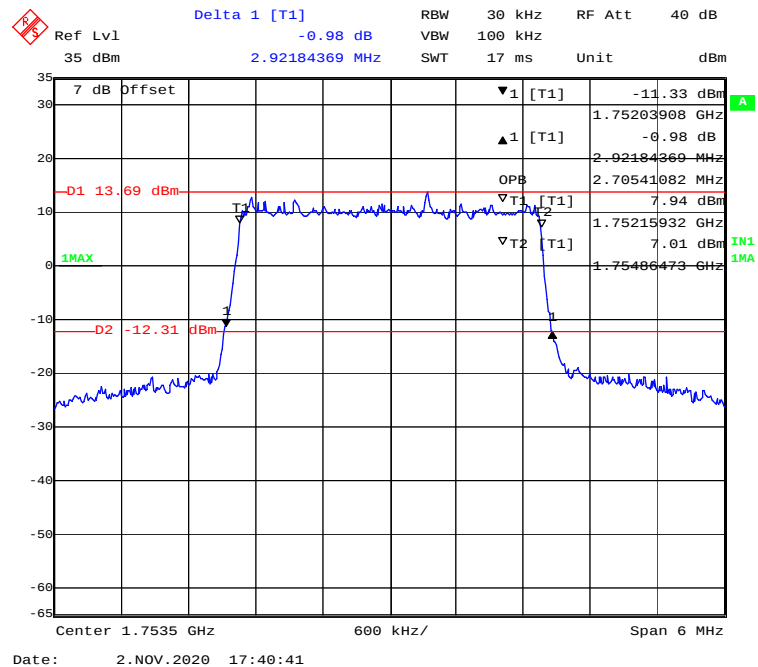
16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

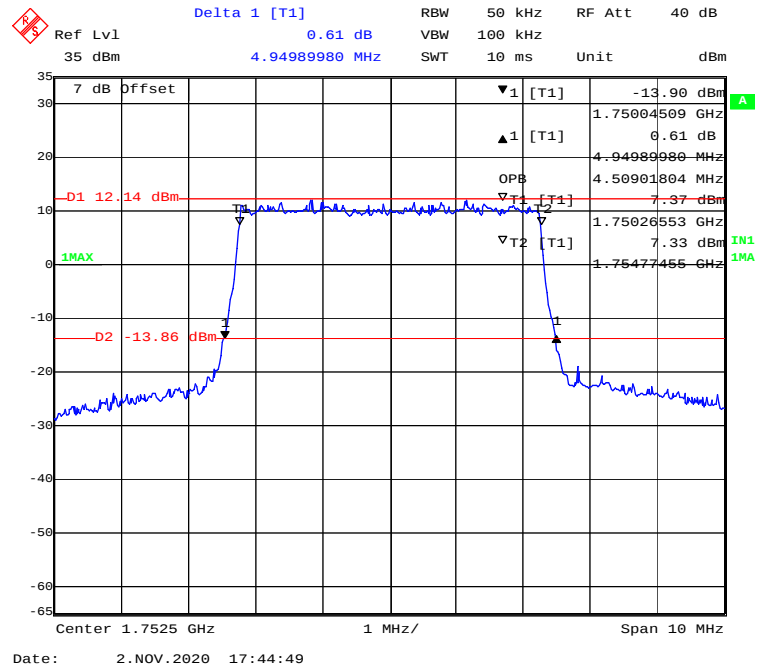
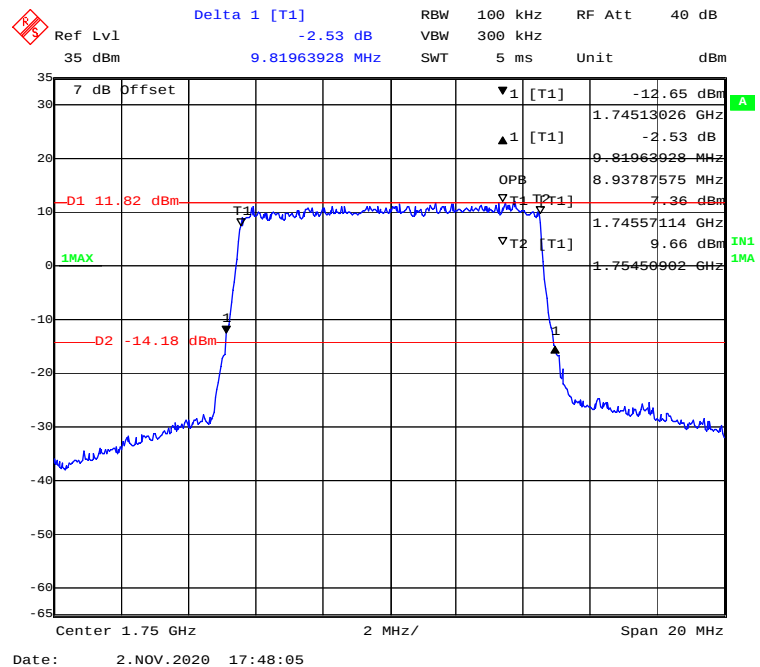
16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

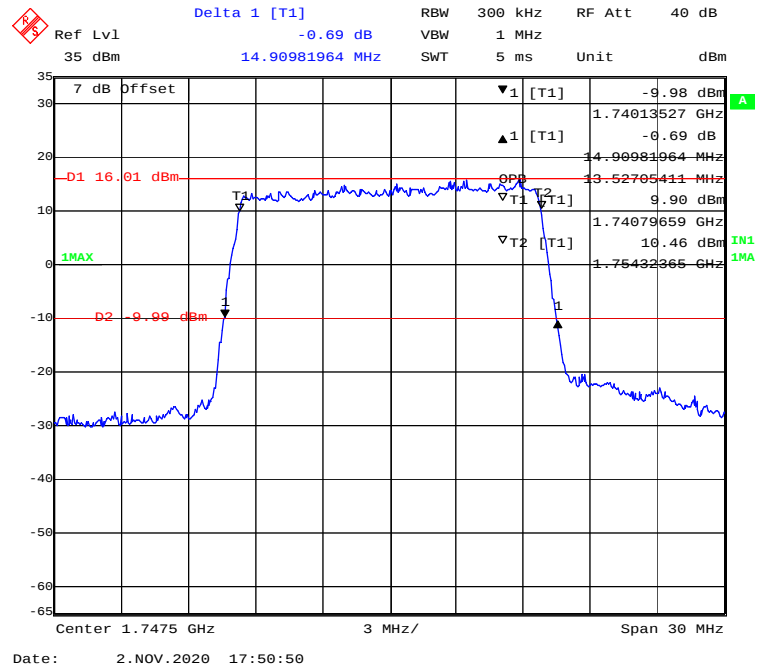
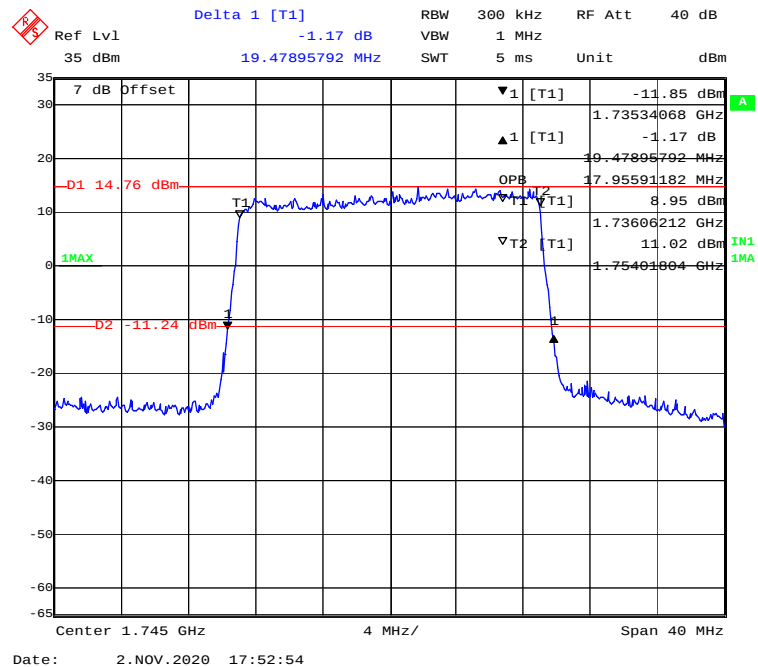
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

LTE Band 5:

Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	1.4M	Low	1.299	1.112
	3M		2.958	2.705
	5M		4.930	4.489
	10M		9.780	8.978
	1.4M	Middle	1.311	1.112
	3M		2.946	2.693
	5M		4.970	4.489
	10M		10.301	9.098
	1.4M	High	1.323	1.106
	3M		2.958	2.705
	5M		4.930	4.489
	10M		9.619	8.898
16-QAM	1.4M	Low	1.299	1.112
	3M		2.946	2.705
	5M		4.930	4.489
	10M		9.780	8.978
	1.4M	Middle	1.311	1.106
	3M		2.958	2.693
	5M		4.970	4.489
	10M		10.301	9.098
	1.4M	High	1.311	1.112
	3M		2.958	2.705
	5M		4.930	4.489
	10M		9.619	8.898

[illegible]

Ref Lvl 35 dBm Delta 1 [T1] -0.40 dB RBW 30 kHz RBW Att 40 dB
 35 dBm 2.95791583 MHz VSW 100 kHz SWT 17 ms Unit dBm

7 dB Offset

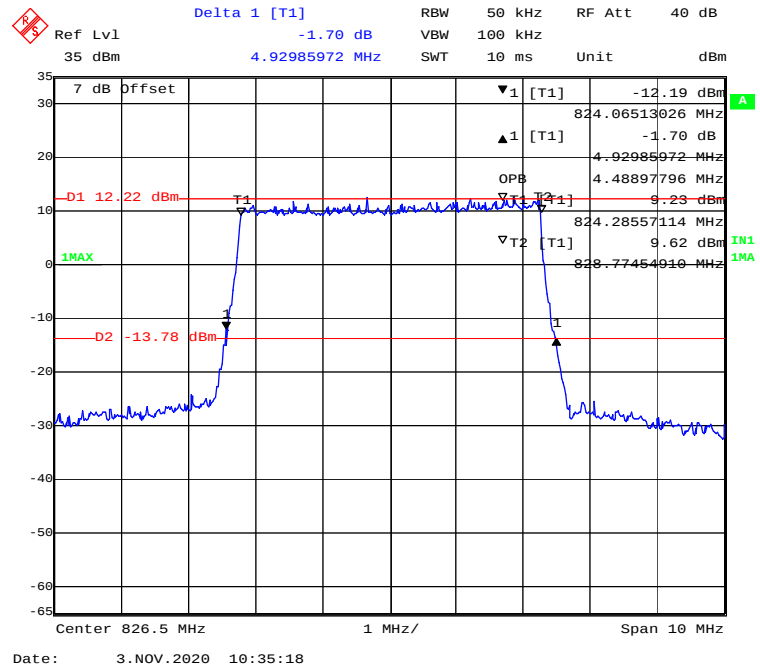
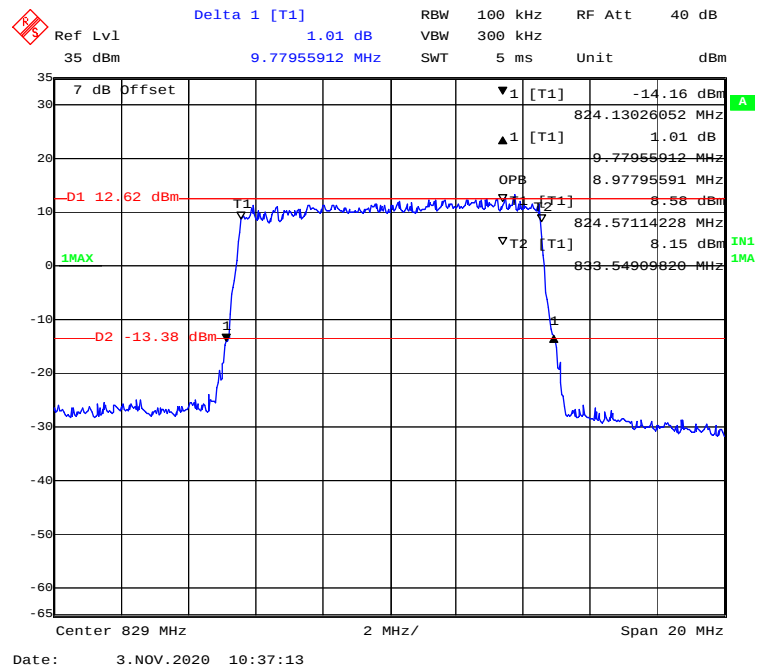
-D1 14.08 dBm

1MAX

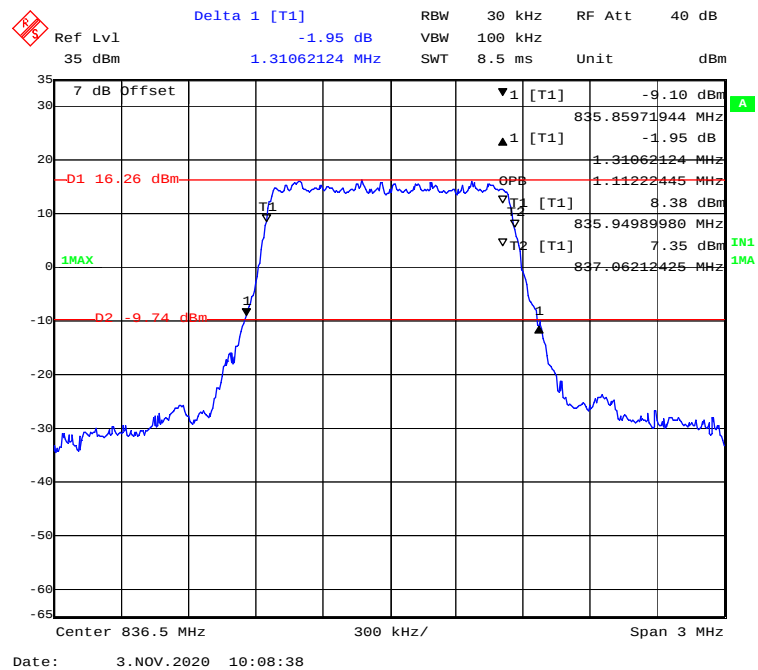
D2 -11.92 dBm

Center 825.5 MHz 600 kHz/ Span 6 MHz

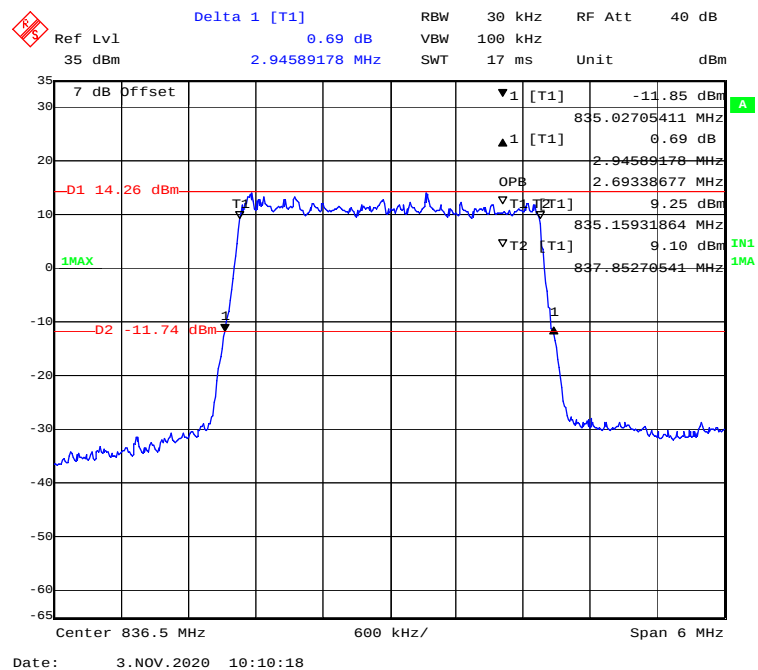
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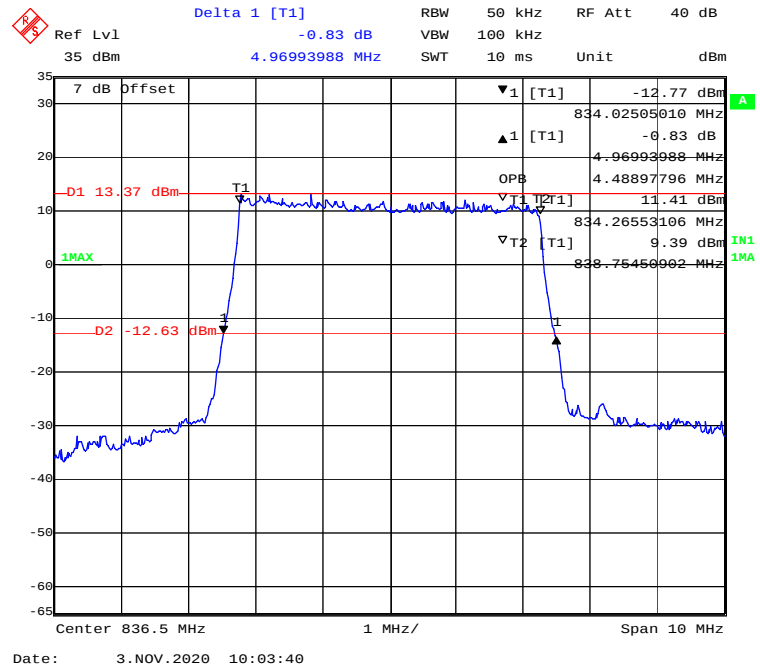
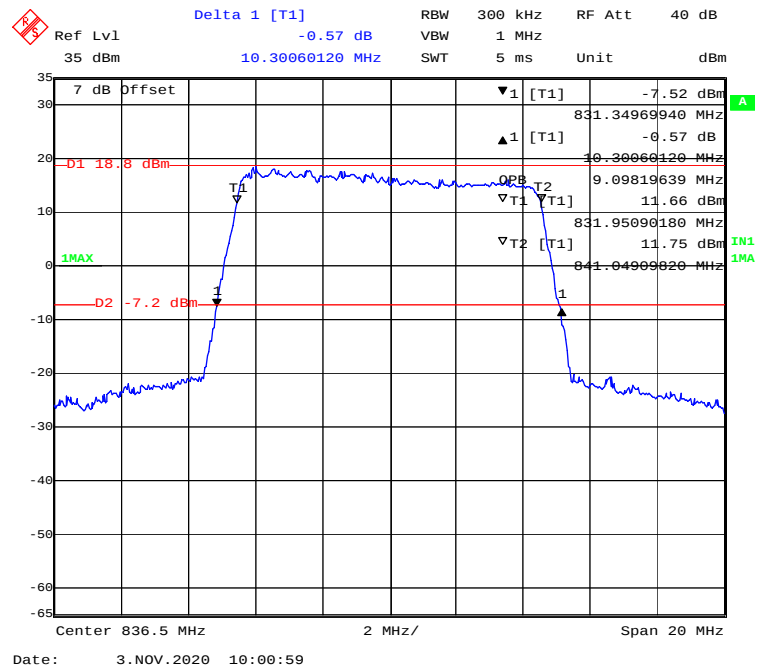
QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

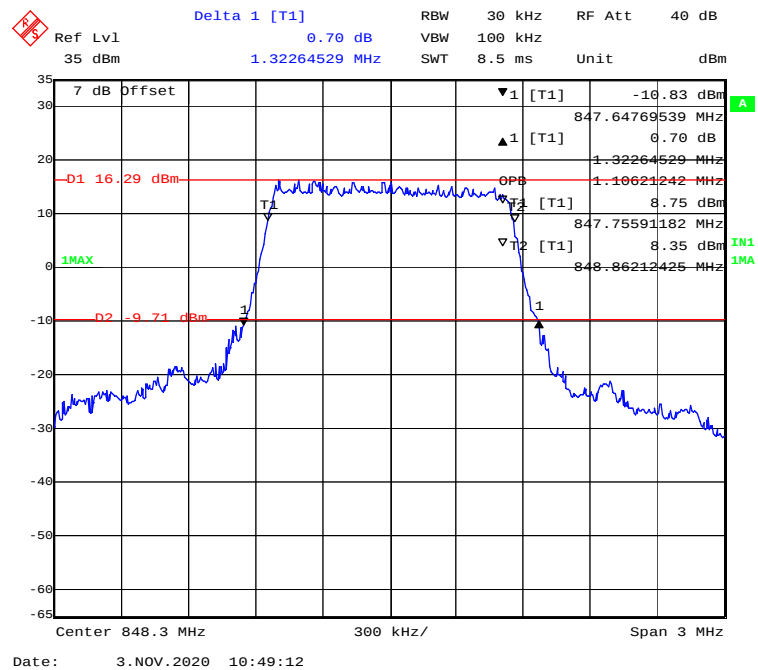
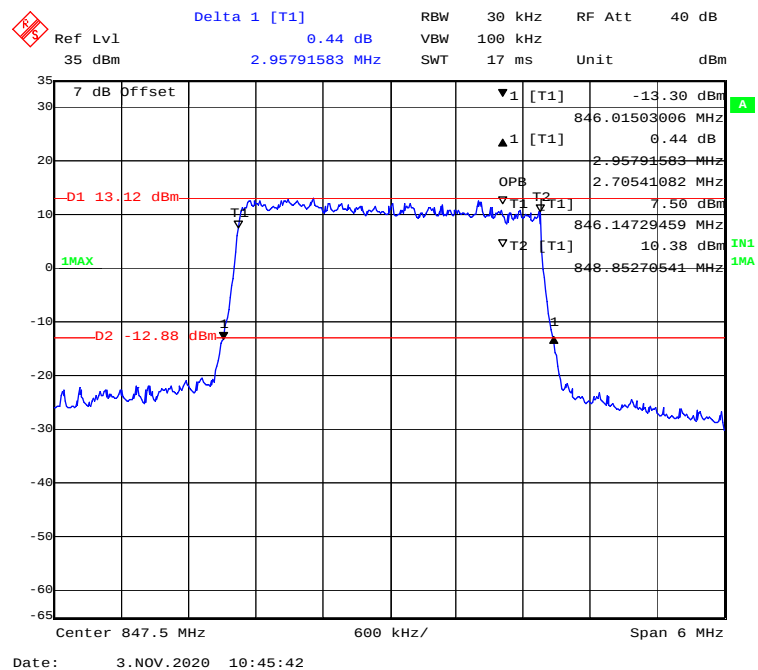
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

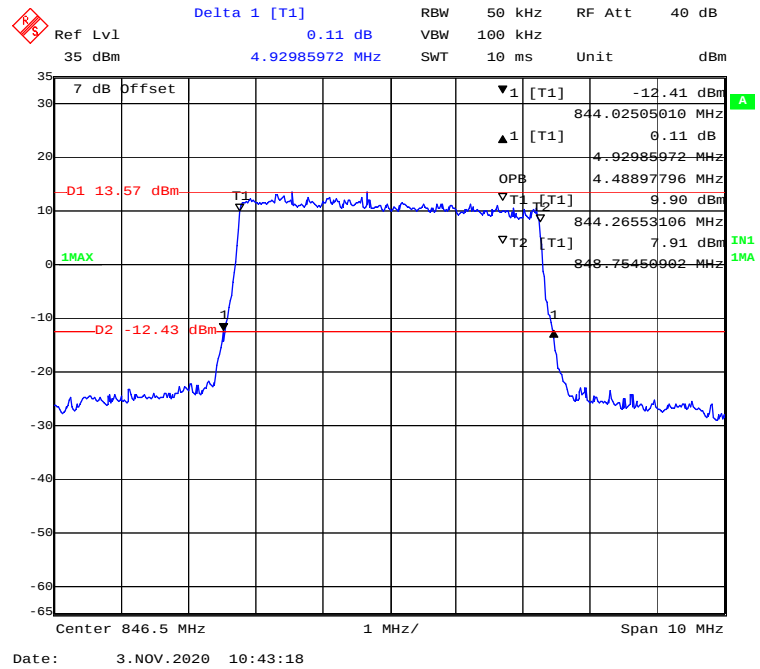
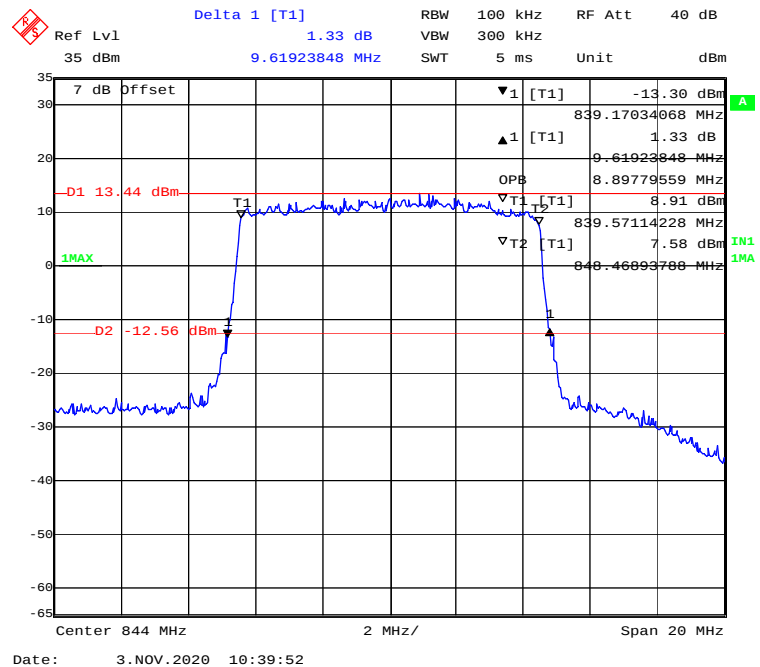


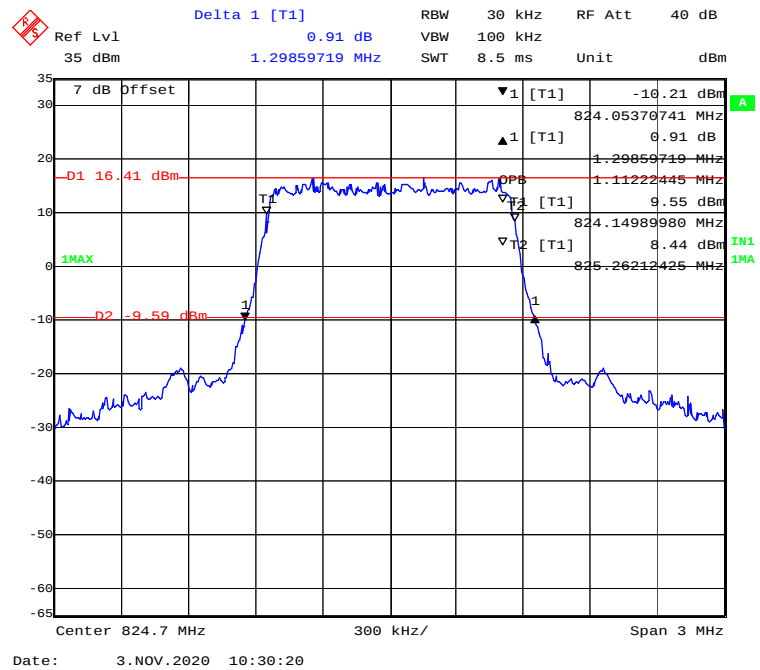
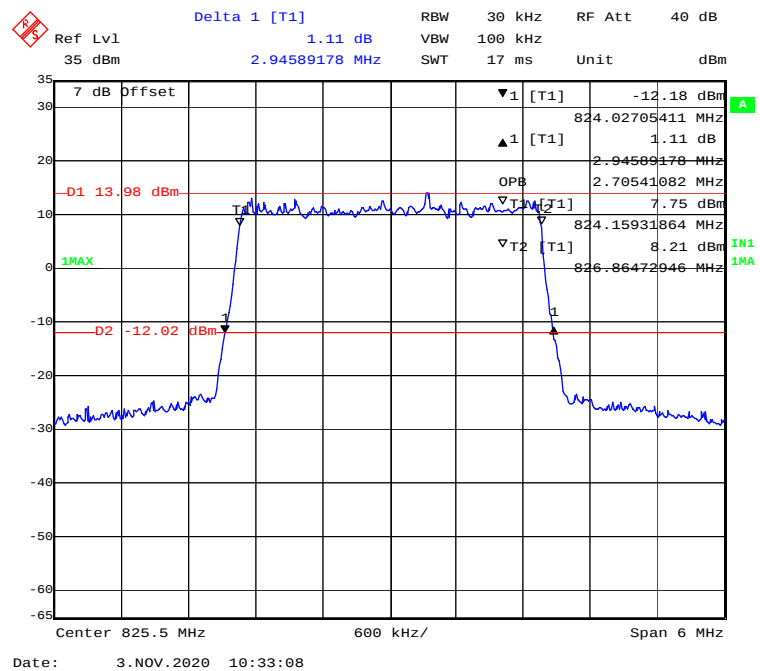
QPSK (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

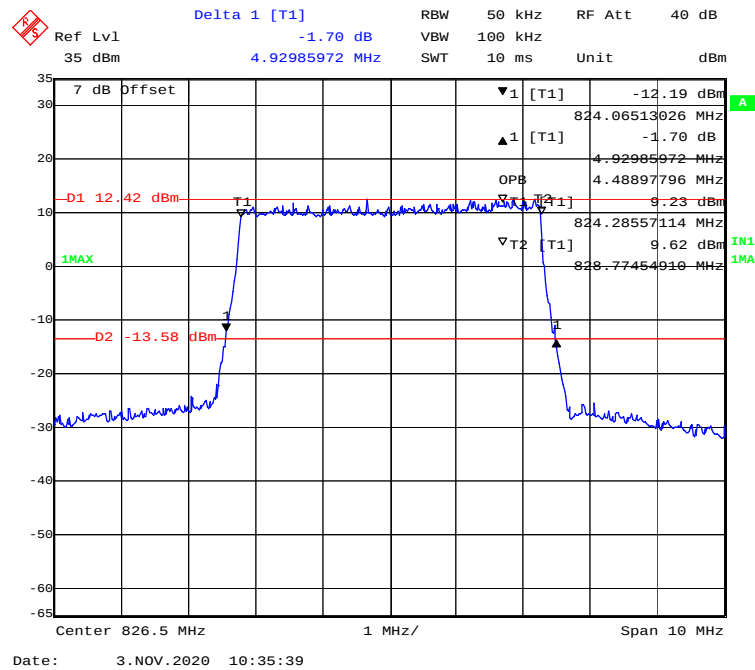
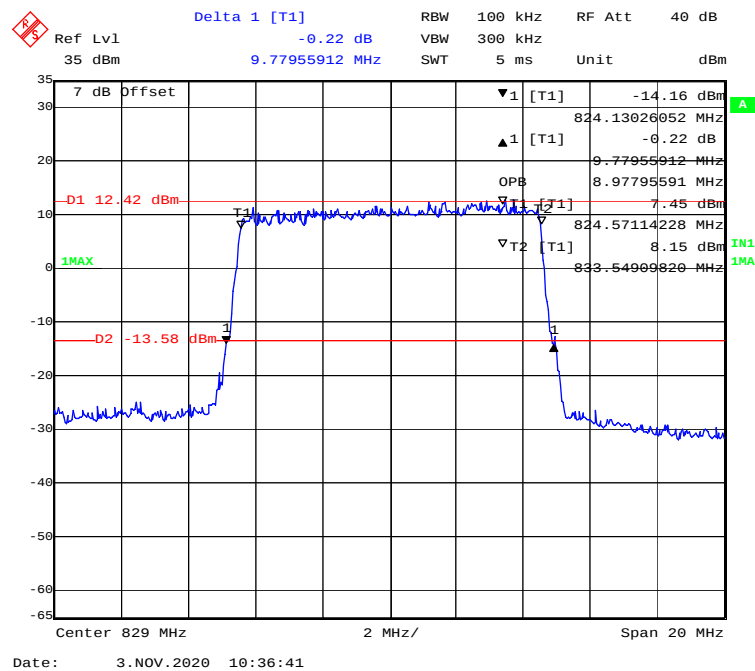


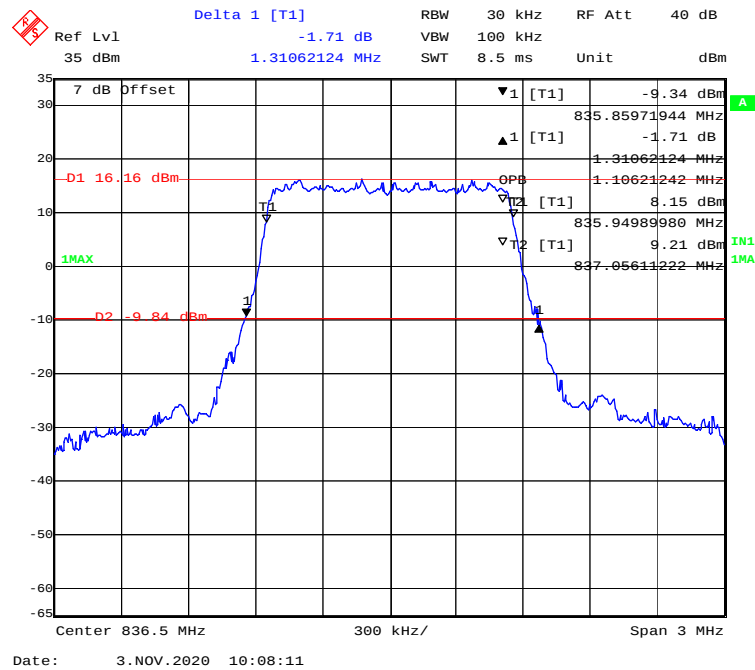
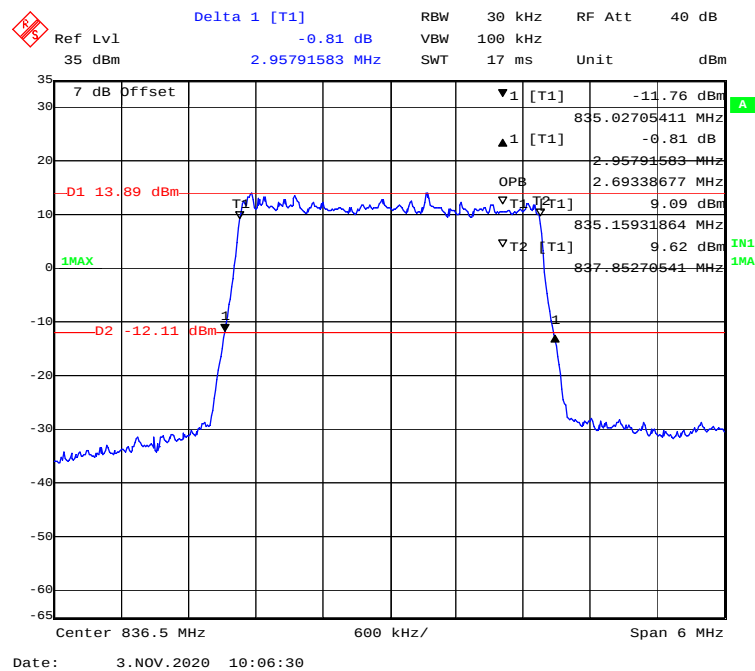
QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

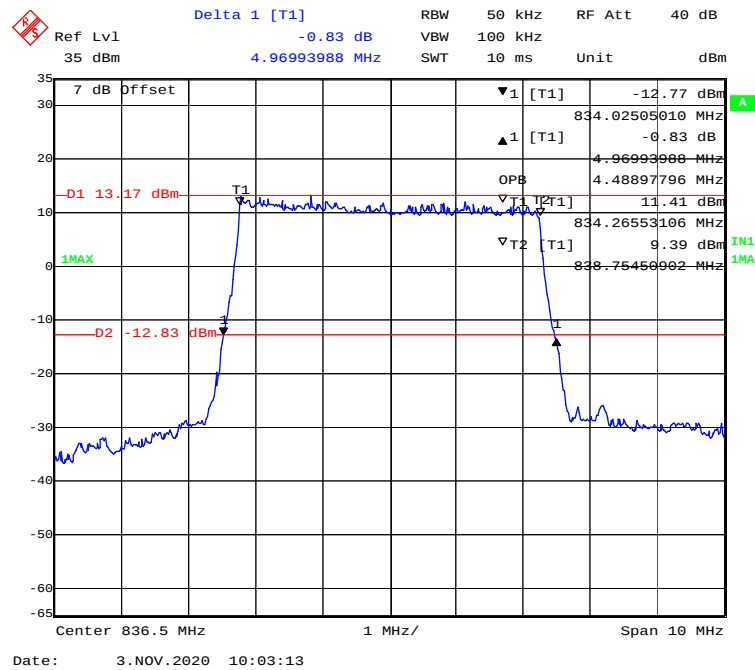
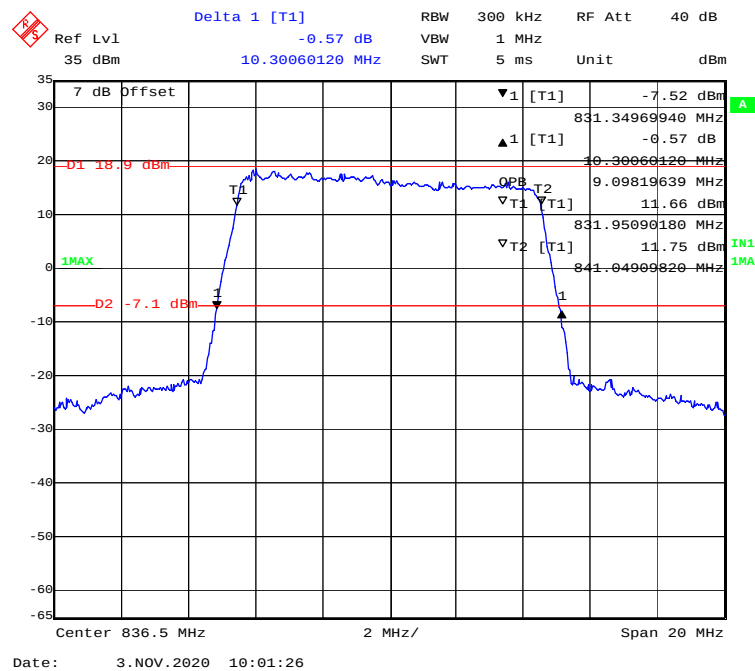
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

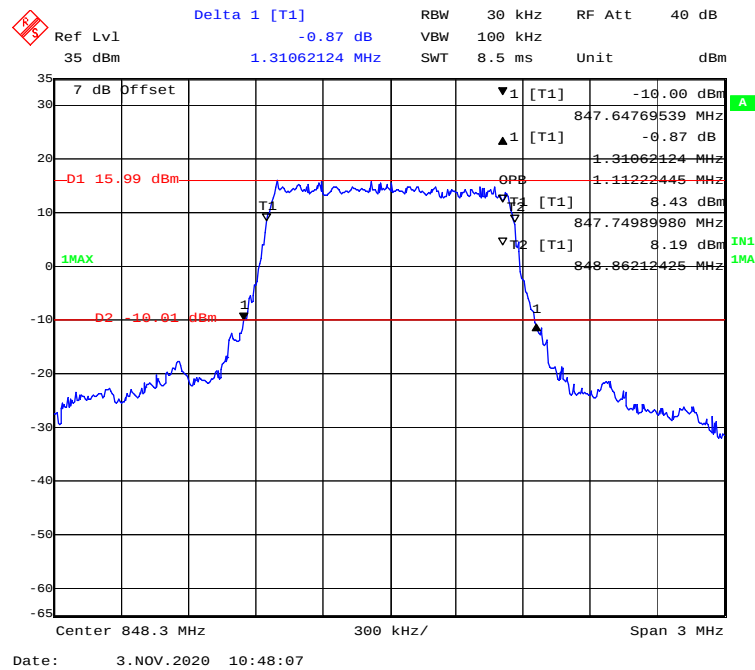
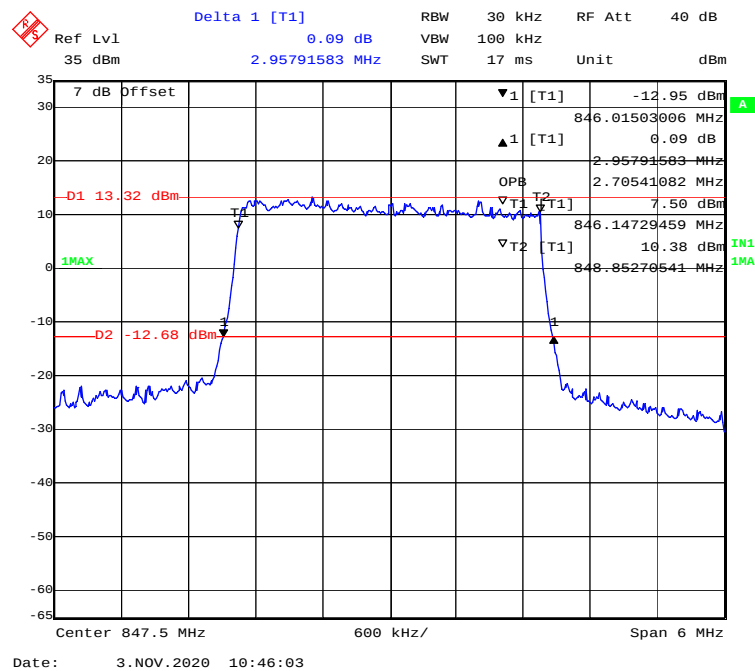
QPSK (5.0MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

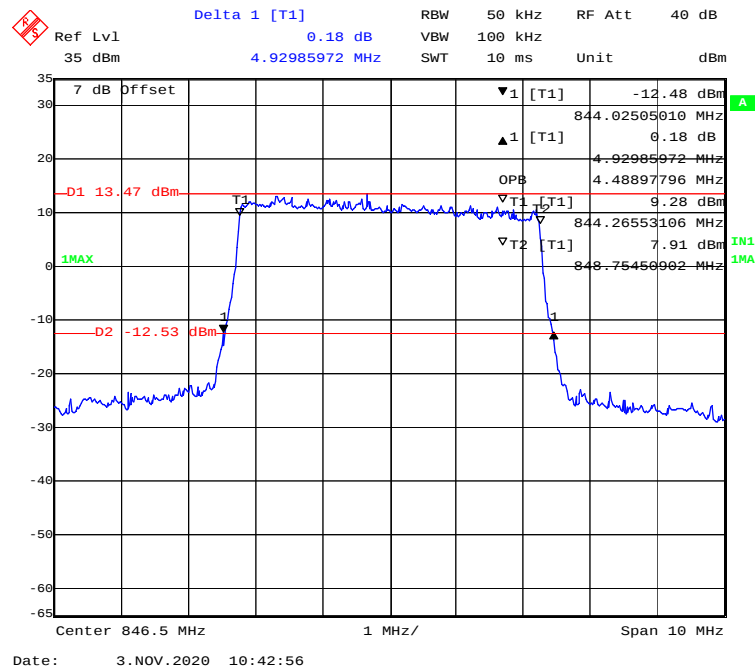
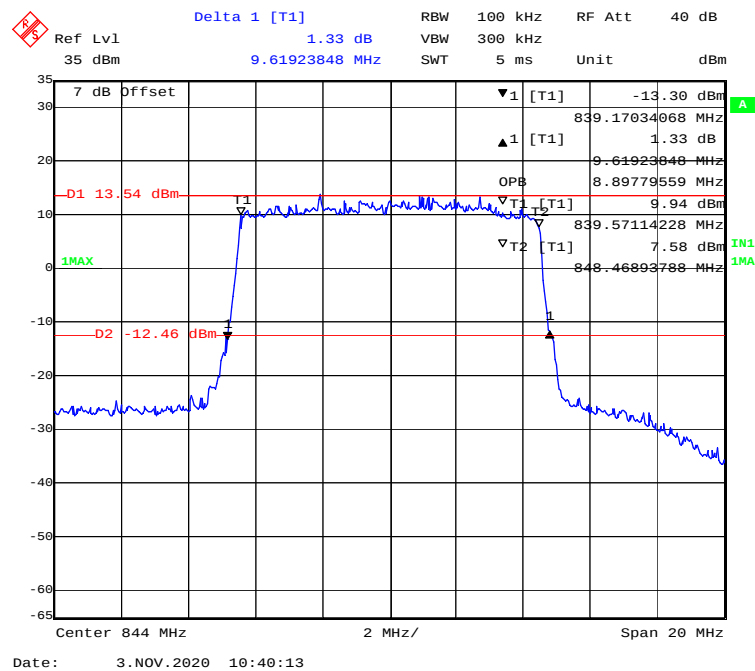
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (3.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (5.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (10.0 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

LTE Band 7:

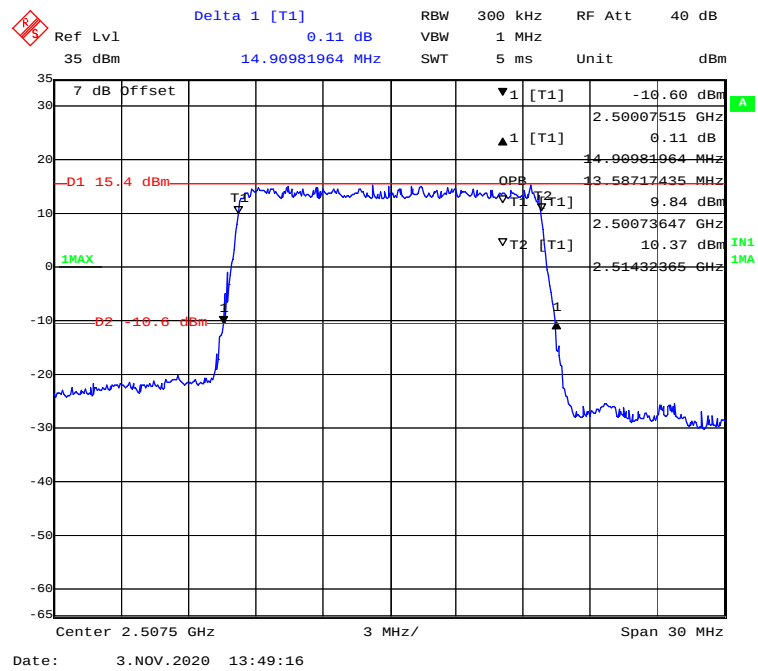
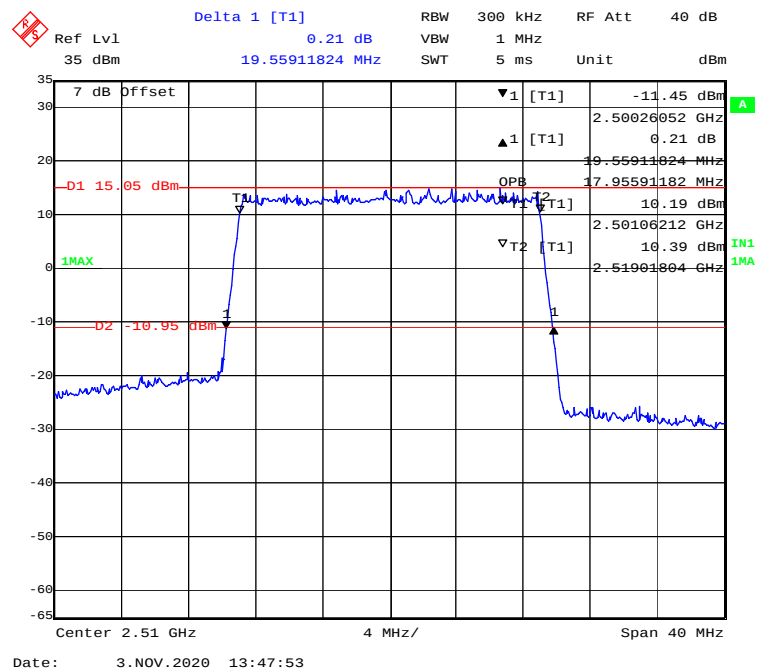
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	5M	Low	4.970	4.489
	10M		10.100	9.098
	15M		14.909	13.587
	20M		19.559	17.956
	5M	Middle	4.970	4.509
	10M		9.860	8.978
	15M		14.970	13.647
	20M		19.479	18.036
	5M	High	4.890	4.489
	10M		9.780	8.978
	15M		14.970	13.587
	20M		19.399	17.956
16-QAM	5M	Low	4.970	4.509
	10M		10.100	9.098
	15M		14.910	13.587
	20M		19.559	17.956
	5M	Middle	4.970	4.509
	10M		9.860	8.978
	15M		14.970	13.587
	20M		19.479	18.036
	5M	High	4.910	4.489
	10M		9.780	8.978
	15M		14.970	13.587
	20M		19.399	17.956

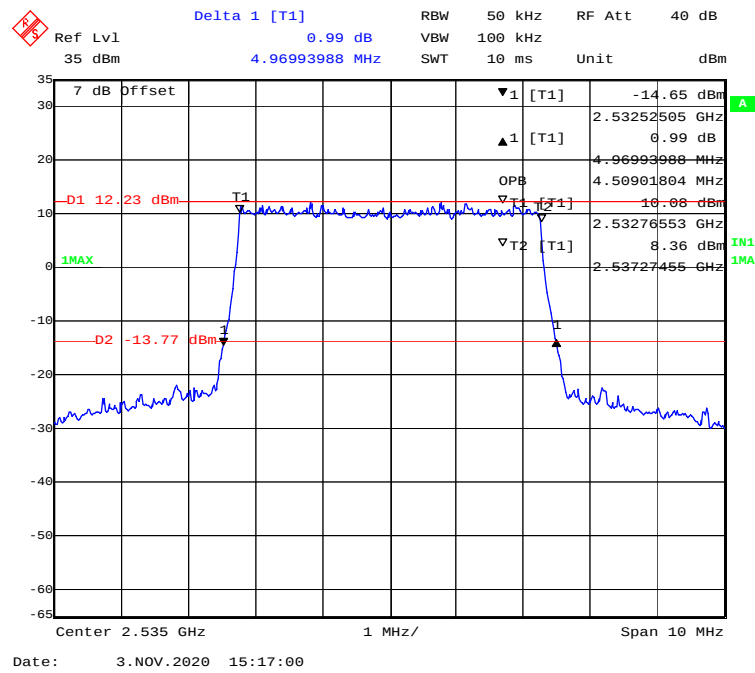
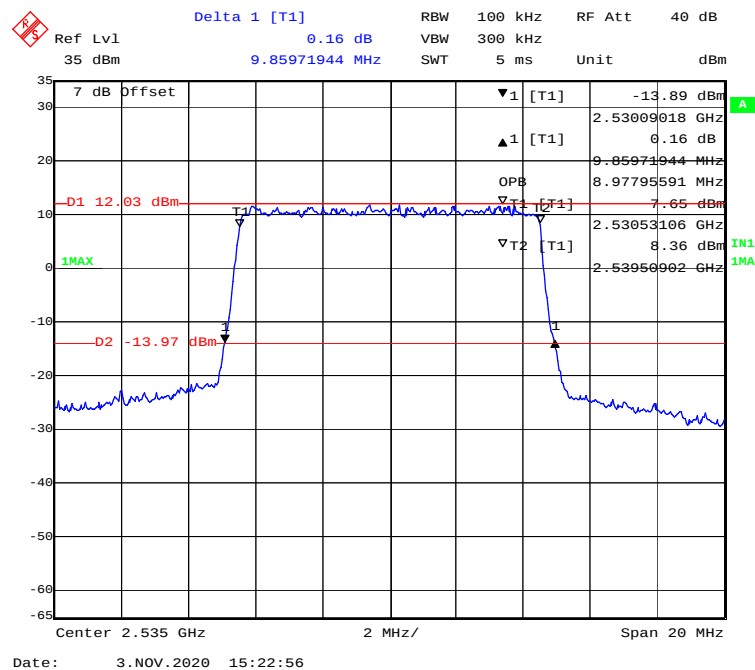
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Delta 1 [T1] -2.45 dB
 Ref Lvl 35 dBm
 RBW 100 kHz
 RF Att 40 dB
 VBW 300 kHz
 SWT 5 ms
 Unit dBm

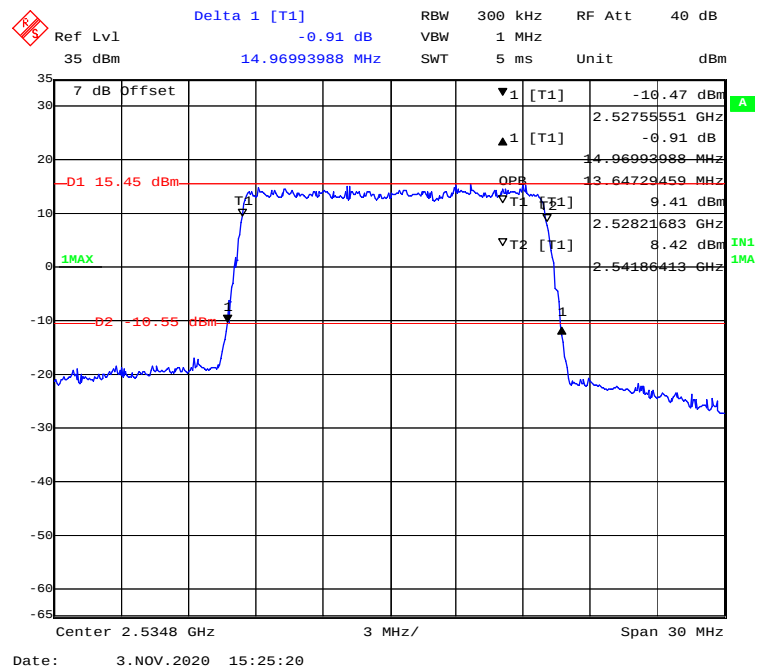
Center 2.505 GHz
 Span 20 MHz

Date: 3.NOV.2020 13:51:01

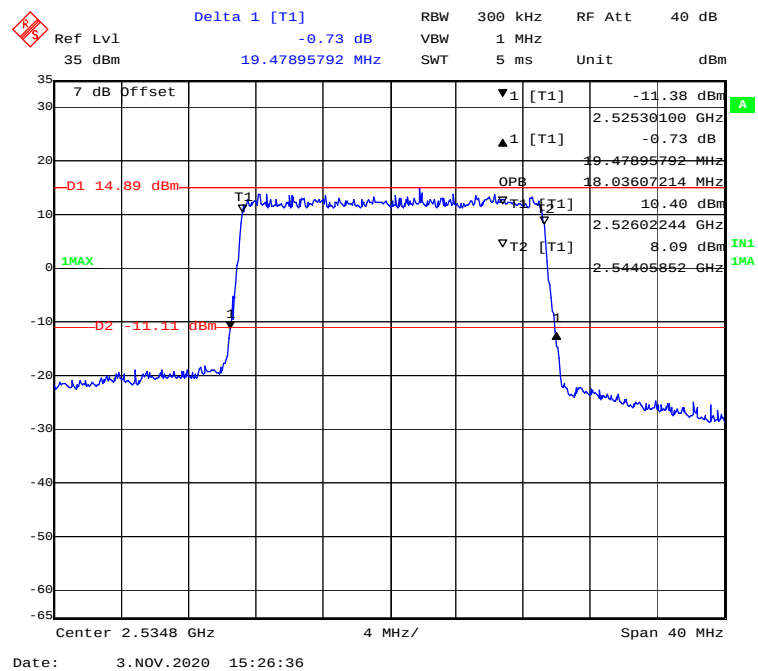
QPSK (15MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

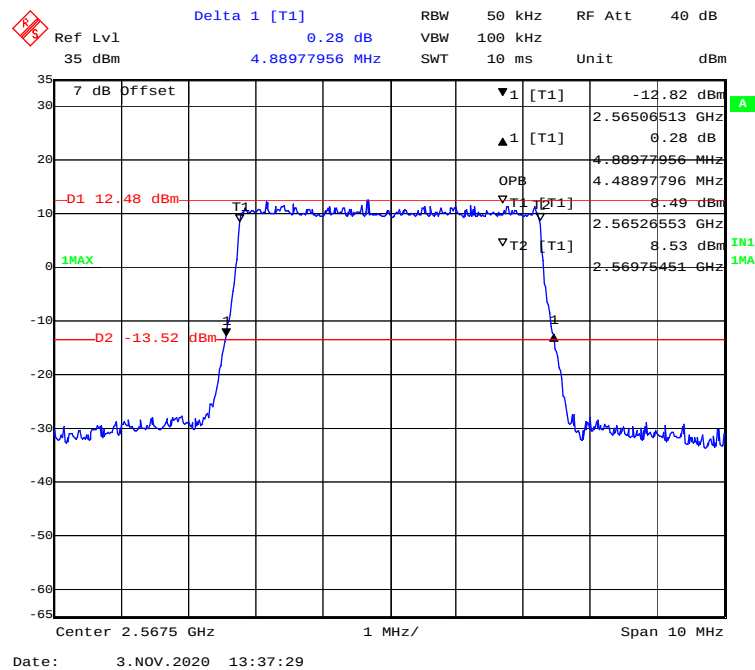
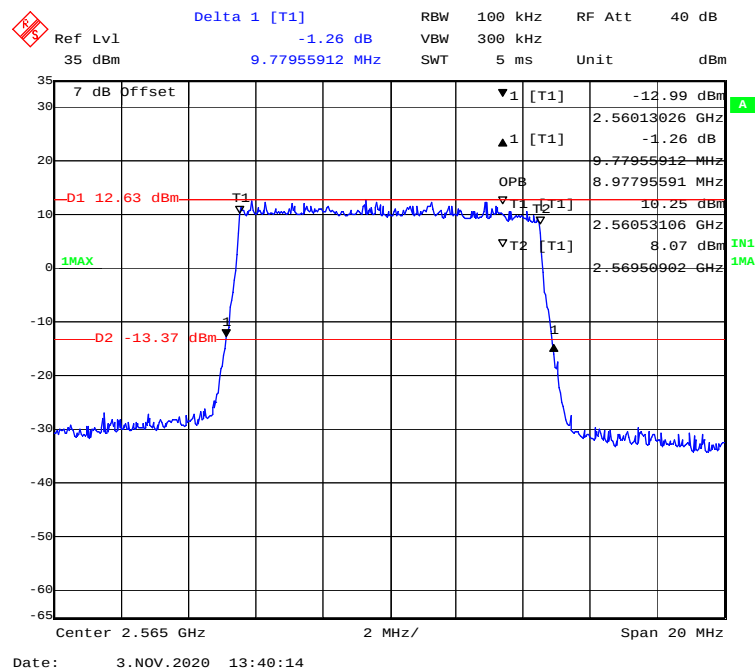
QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

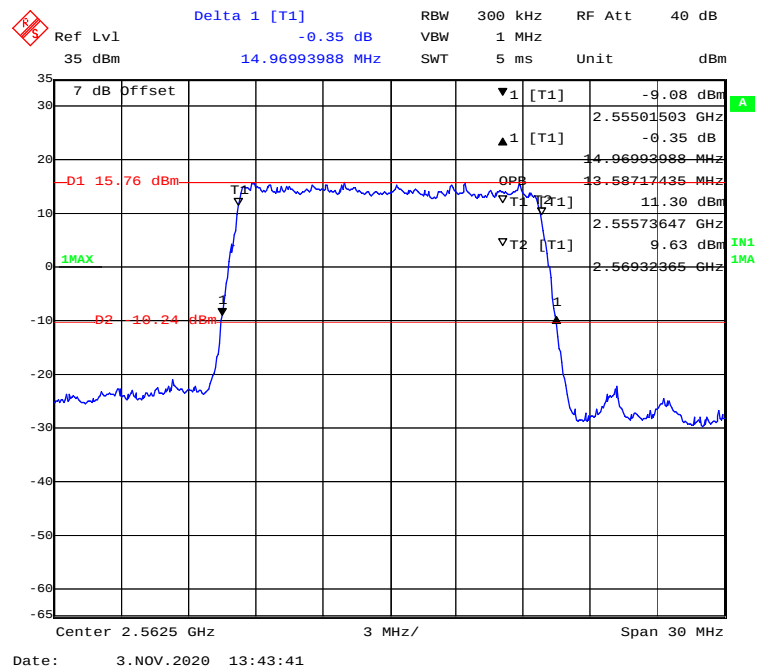
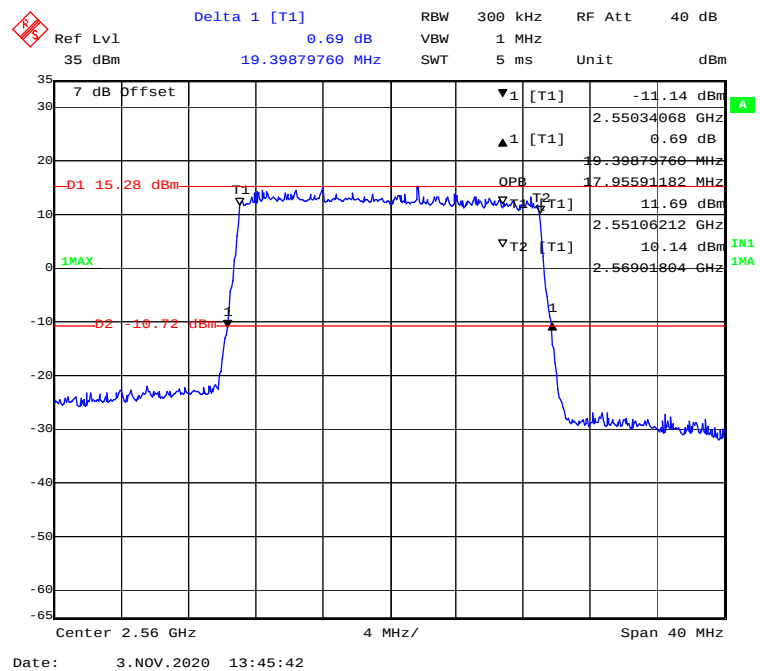
QPSK (15MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

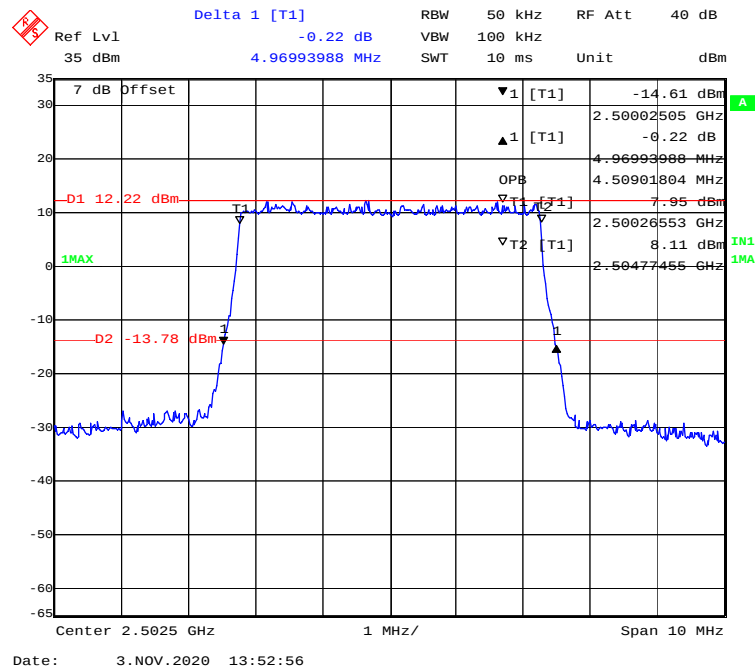
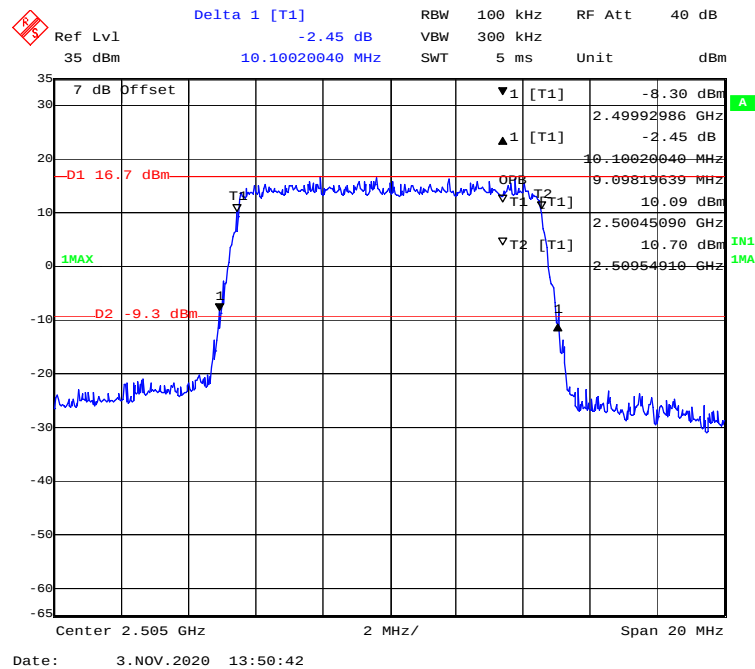


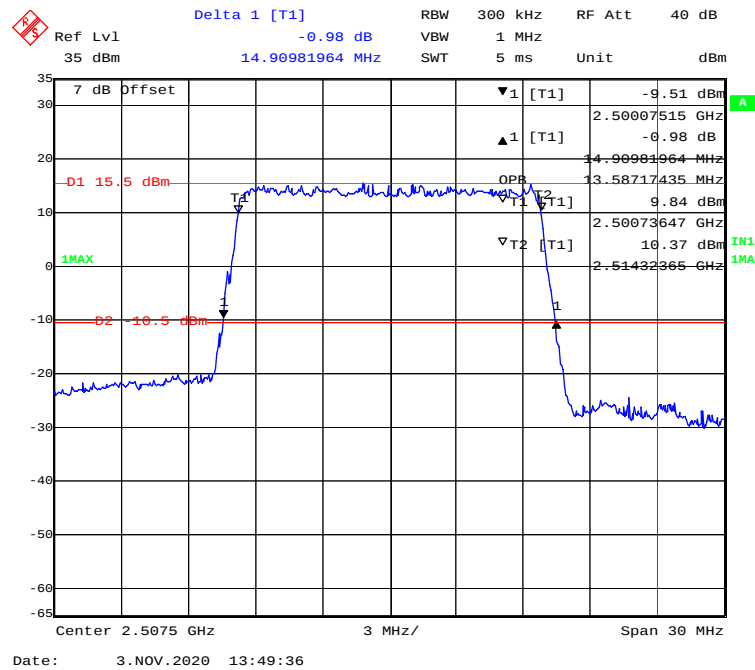
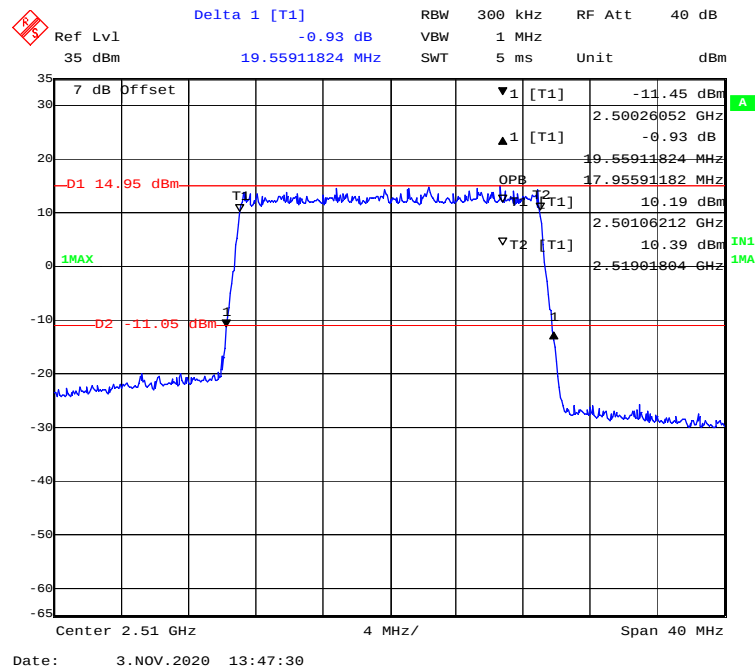
QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

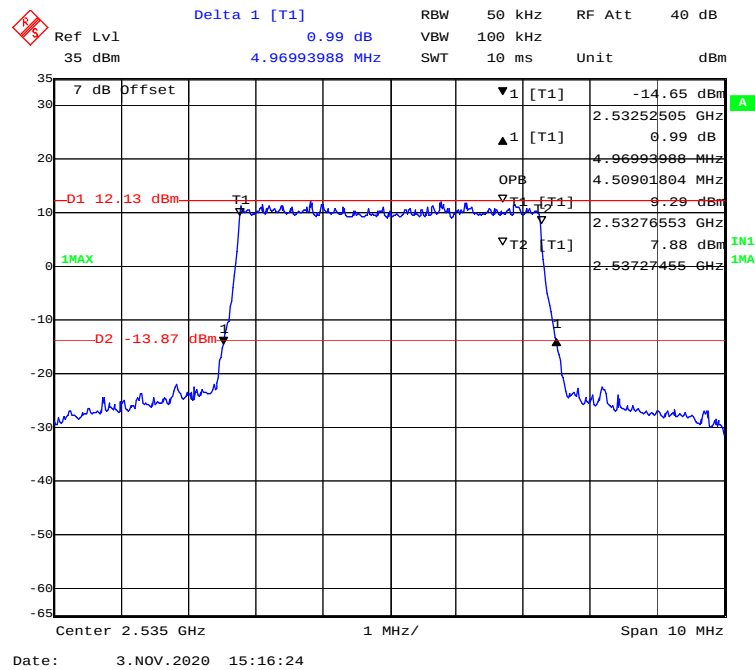
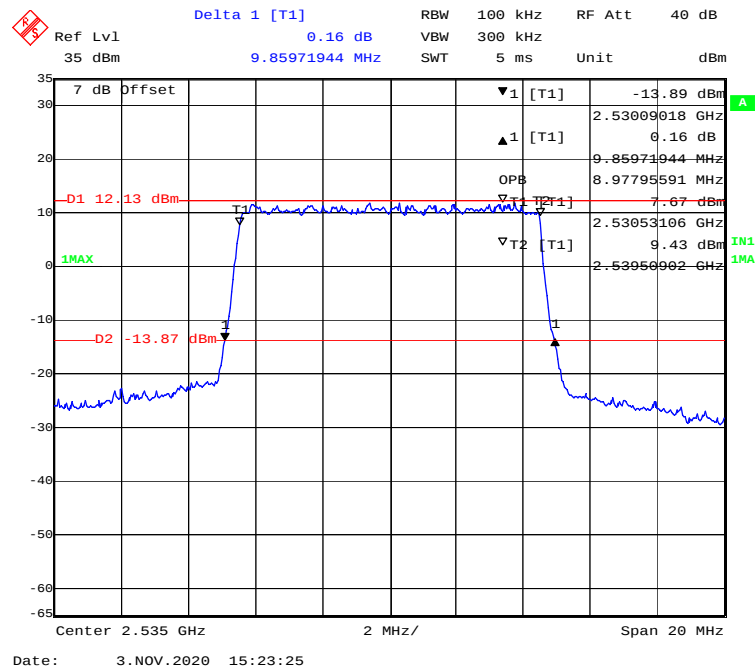


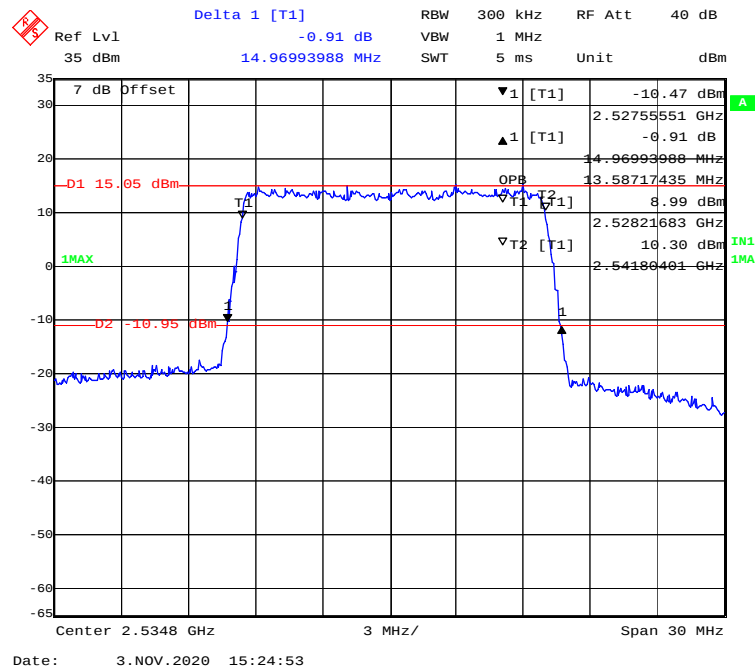
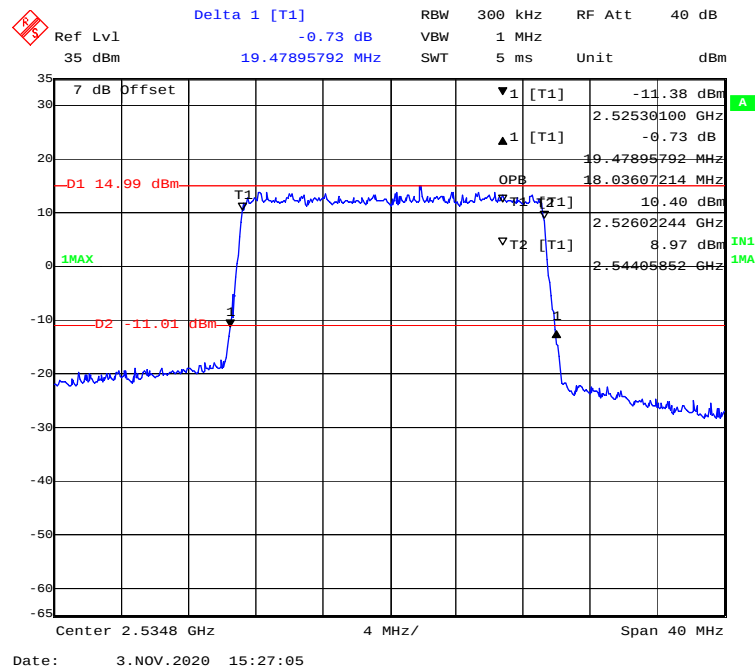
QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

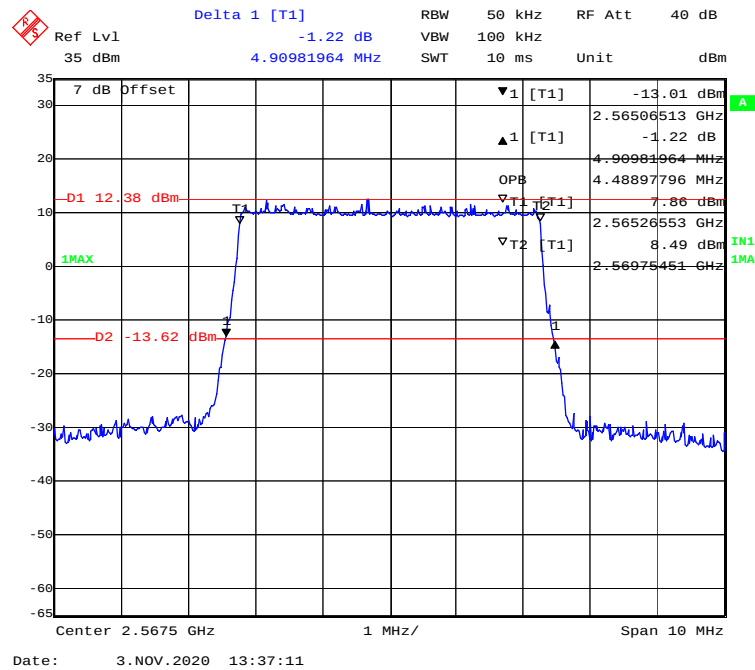
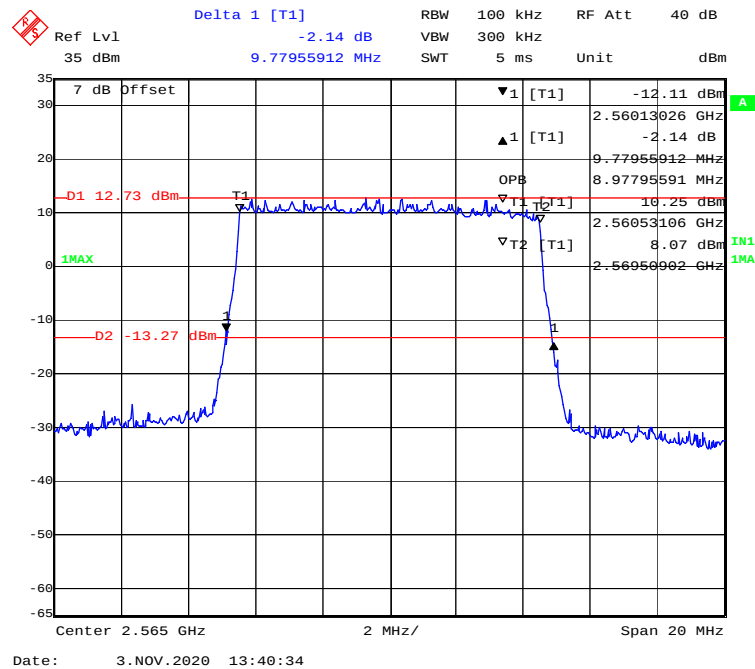
QPSK (15MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

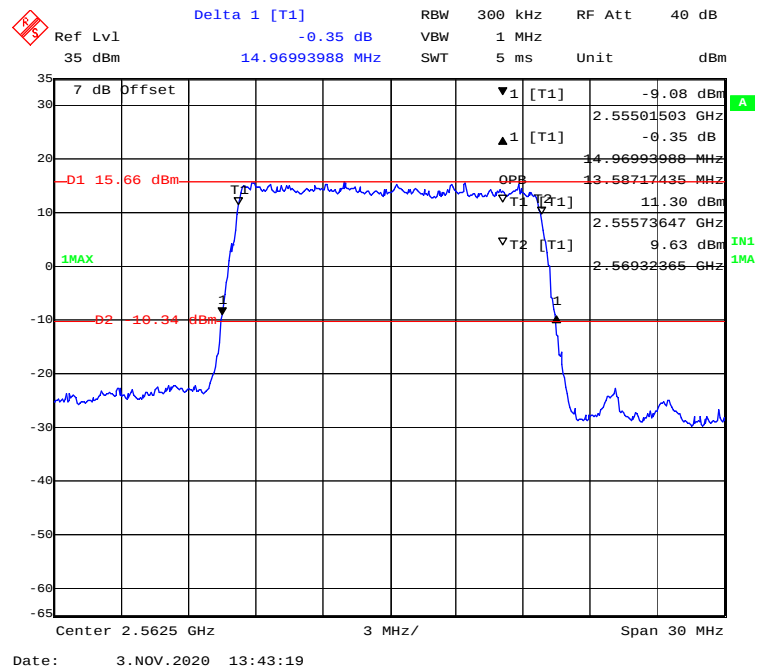
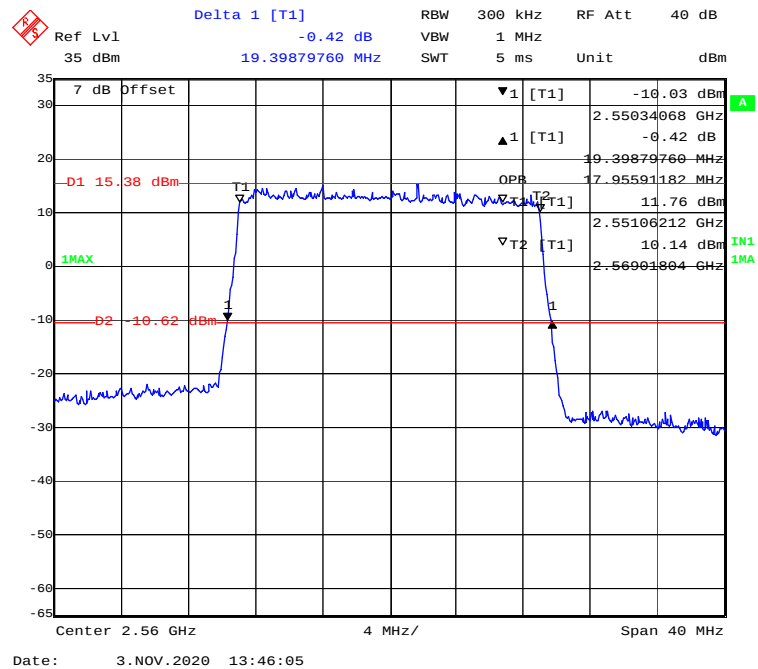
16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

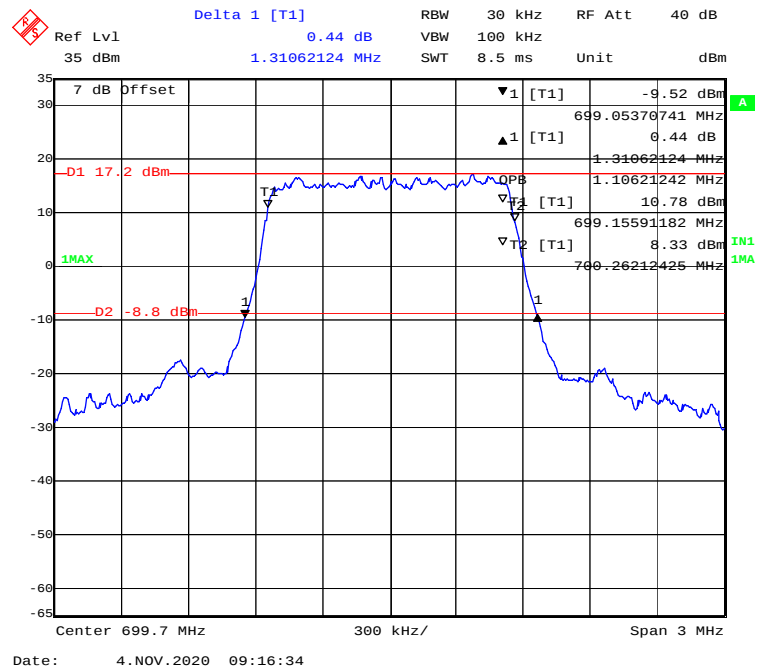
16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

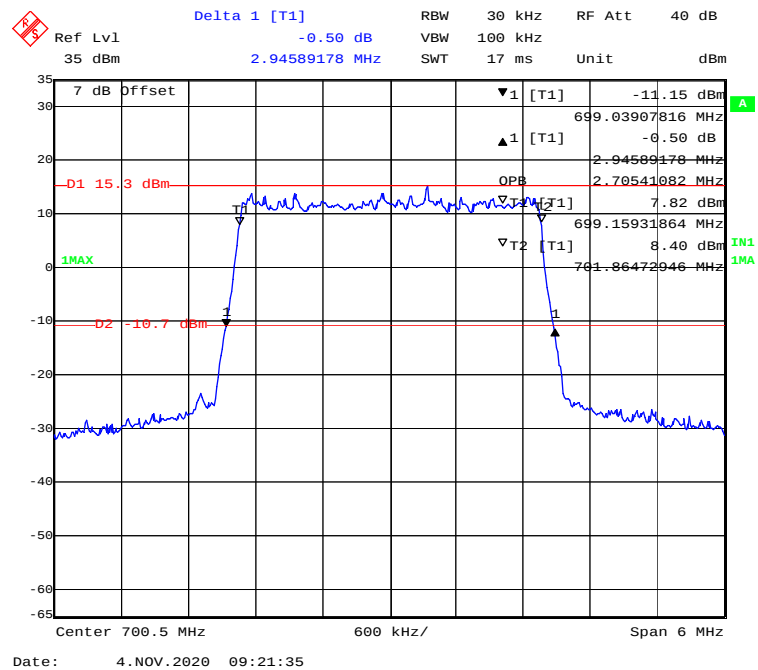
LTE Band 12:

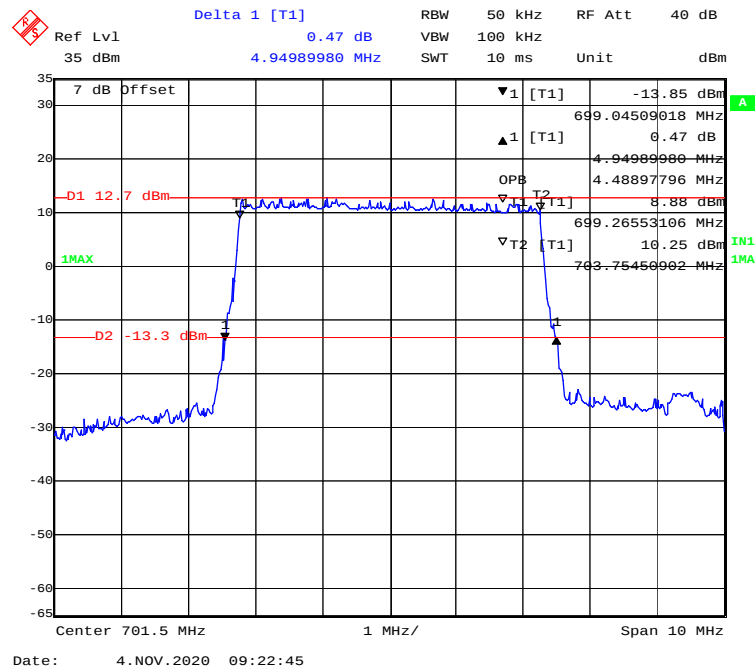
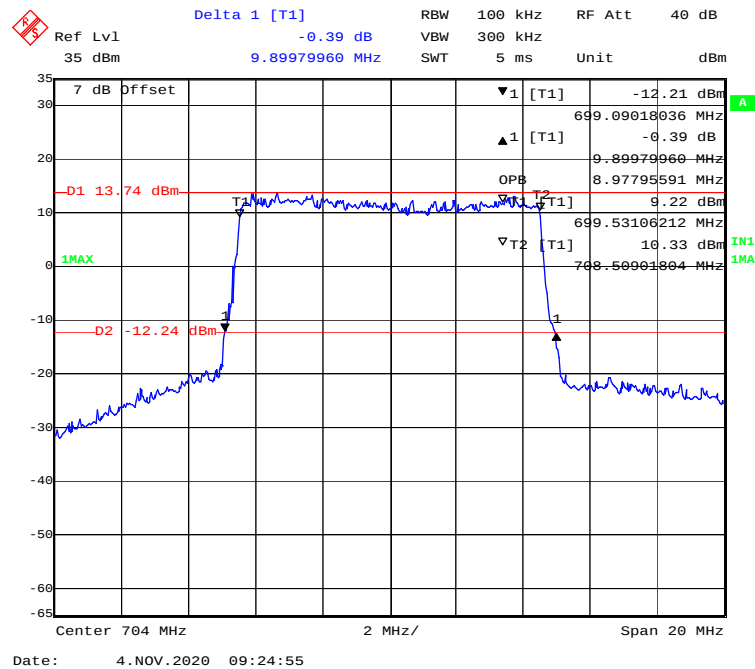
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	1.4M	Low	1.311	1.106
	3M		2.946	2.705
	5M		4.950	4.489
	10M		9.900	8.978
	1.4M	Middle	1.299	1.112
	3M		2.946	2.705
	5M		4.930	4.489
	10M		9.820	9.018
	1.4M	High	1.287	1.112
	3M		2.958	2.693
	5M		4.870	4.489
	10M		9.660	8.938
16-QAM	1.4M	Low	1.311	1.112
	3M		2.970	2.693
	5M		4.950	4.509
	10M		9.900	9.018
	1.4M	Middle	1.299	1.112
	3M		2.958	2.705
	5M		4.930	4.509
	10M		9.739	9.018
	1.4M	High	1.287	1.112
	3M		2.958	2.693
	5M		4.870	4.489
	10M		9.659	8.938

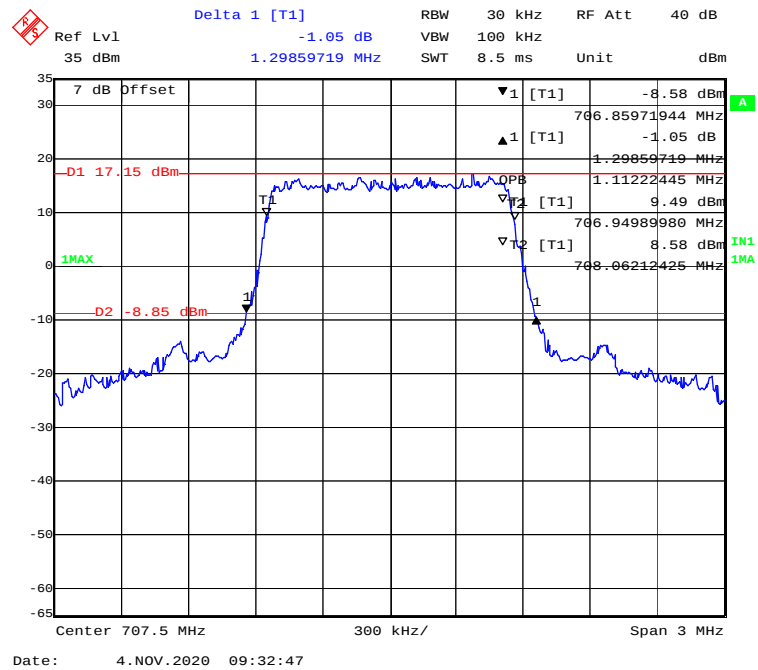
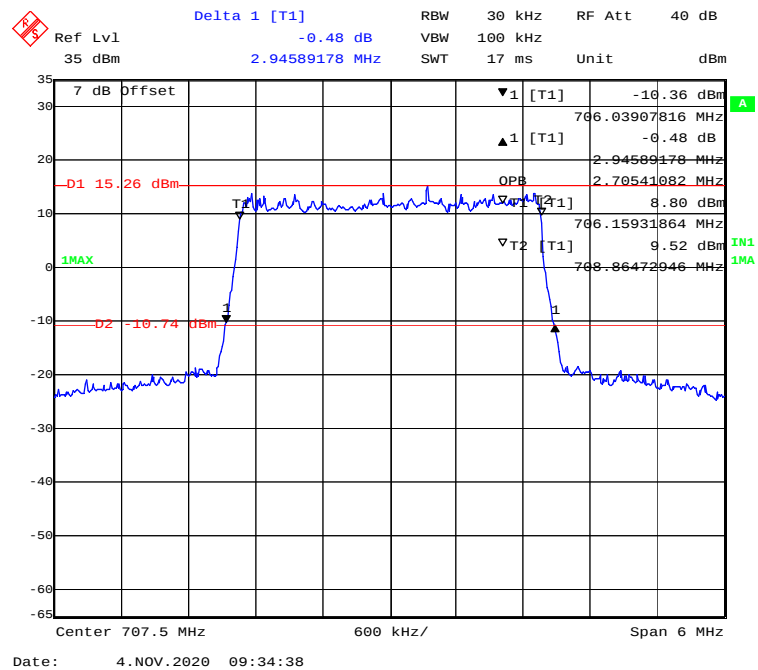
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

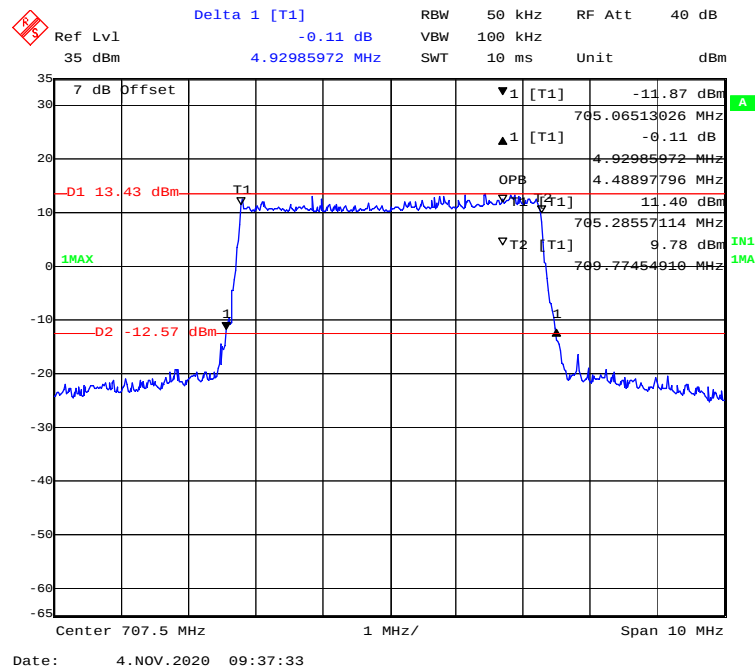
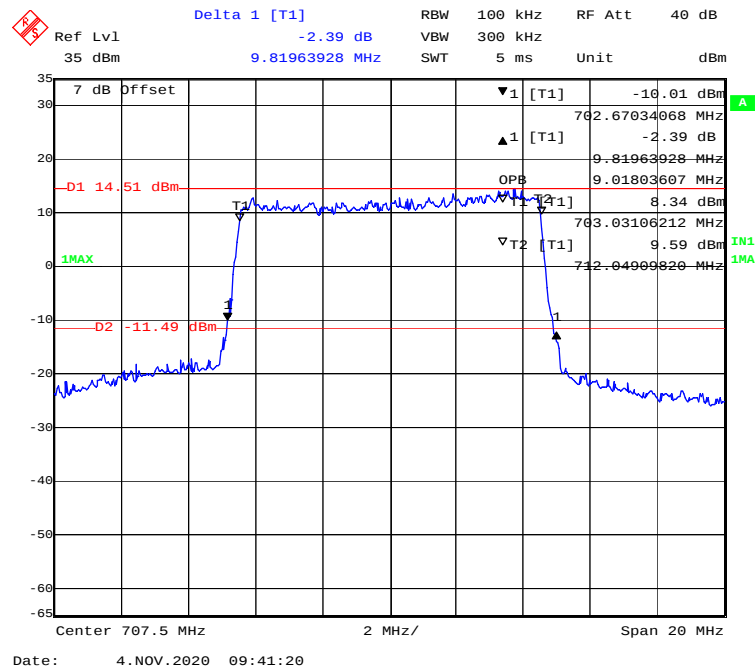


QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (10MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (10MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

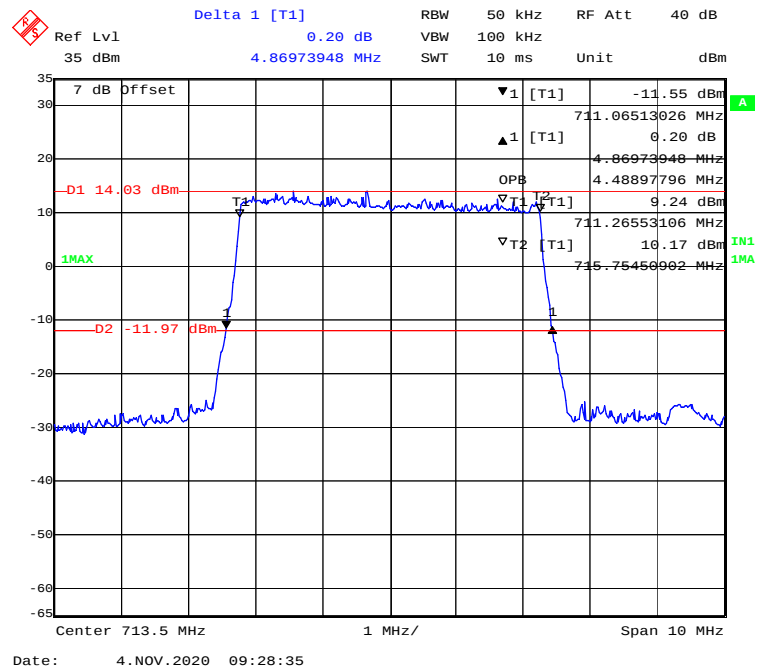
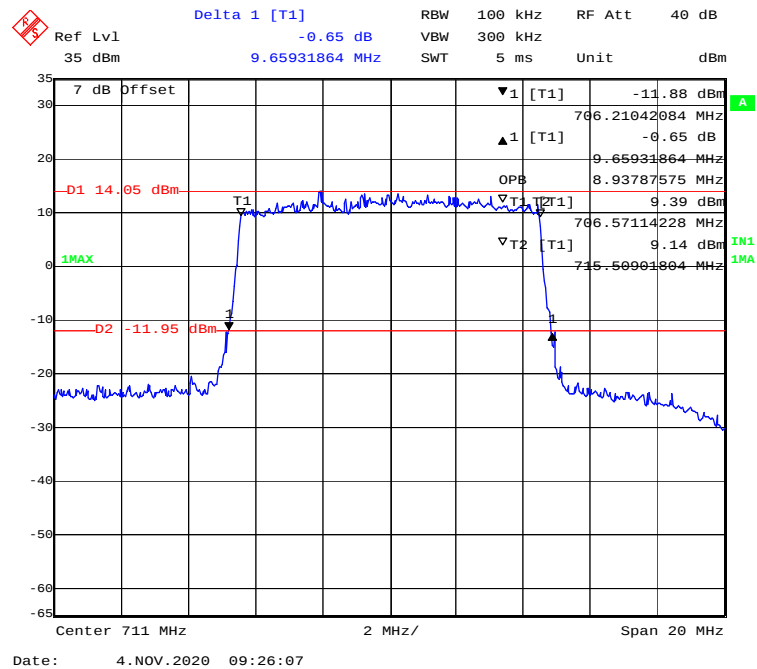
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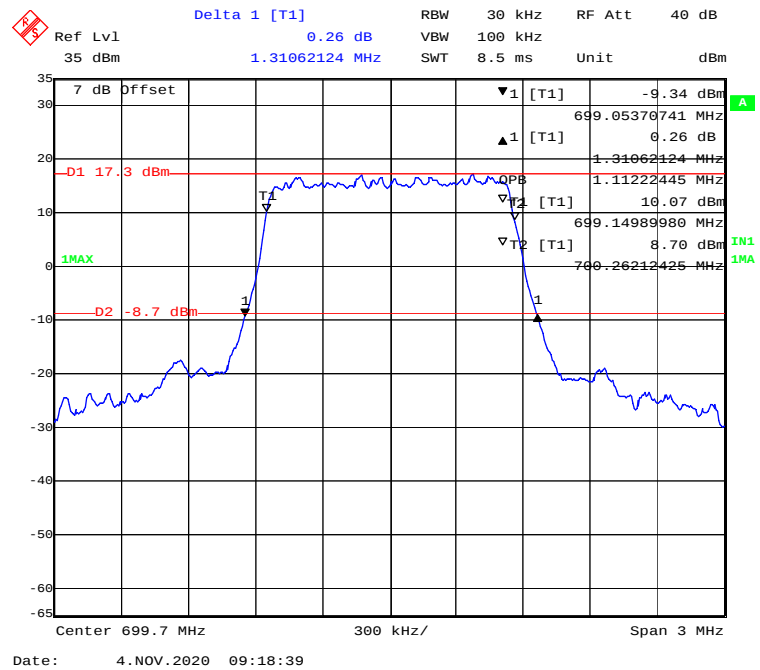
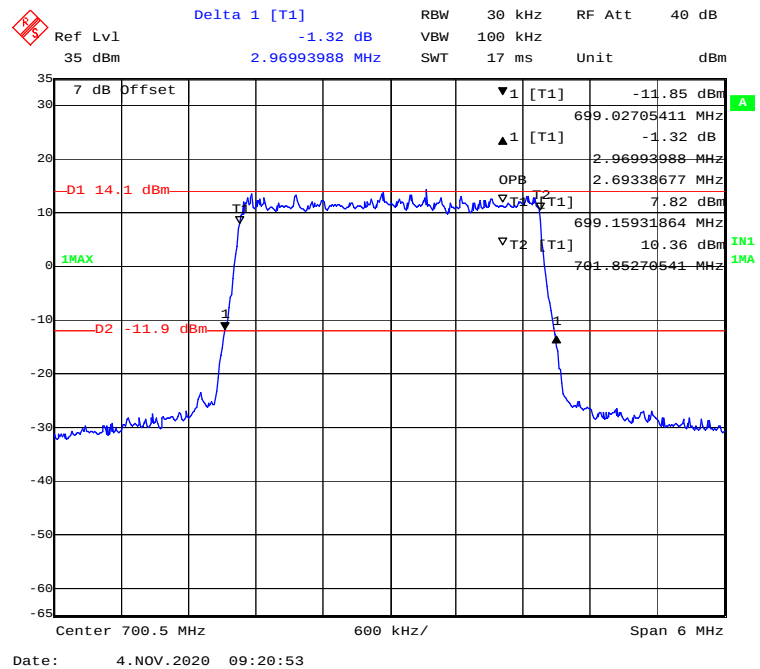
Ref Lvl 35 dBm
 Delta 1 [T1] -0.59 dB
 RBW 30 kHz
 VBW 100 kHz
 SWT 17 ms
 RF Att 40 dB
 Unit dBm

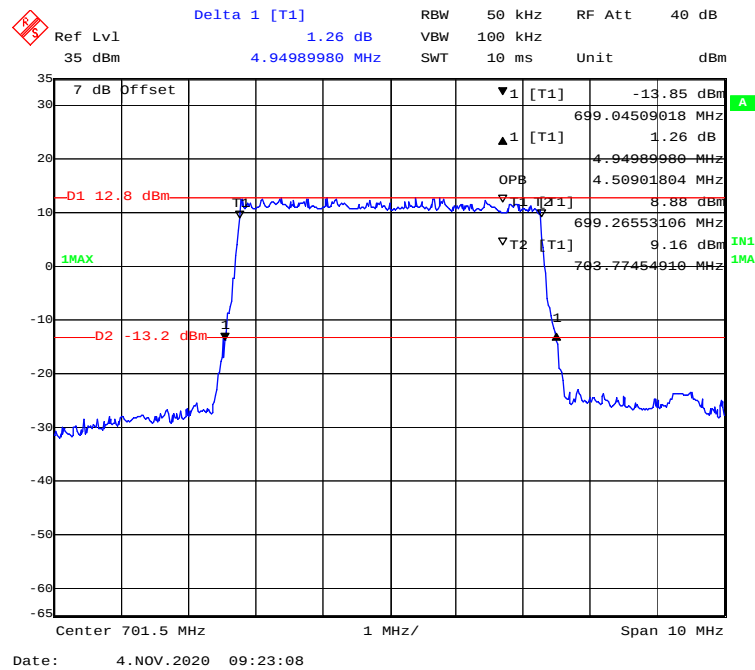
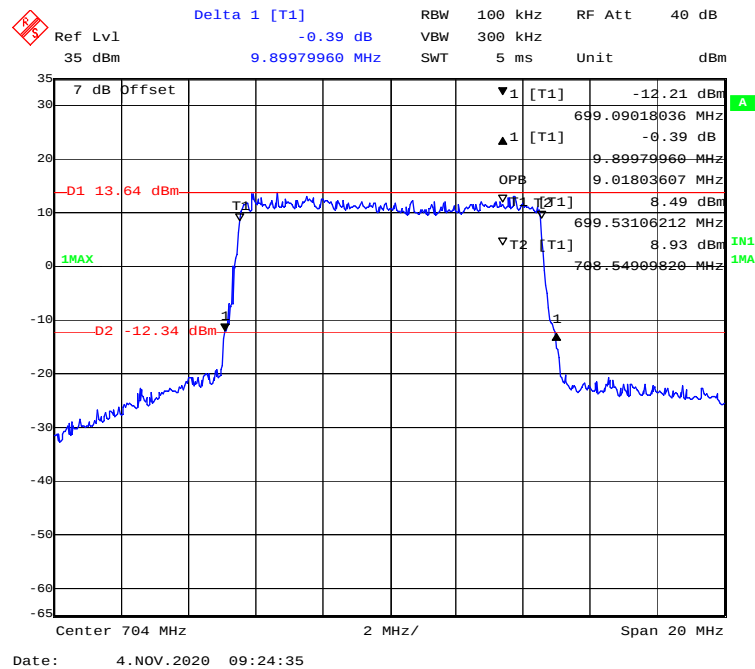
7 dB Offset
 -D1 13.78 dBm
 1MAX
 -D2 -12.22 dBm
 IN1
 IN1A

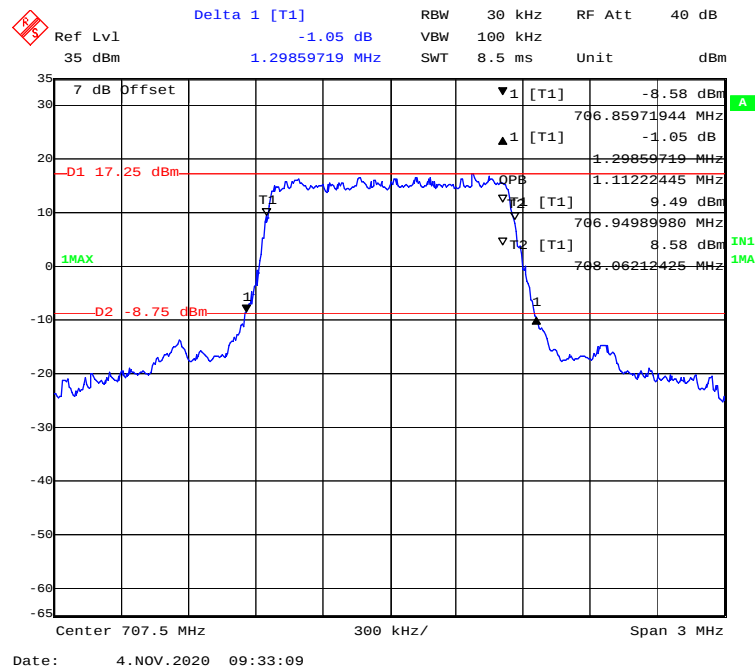
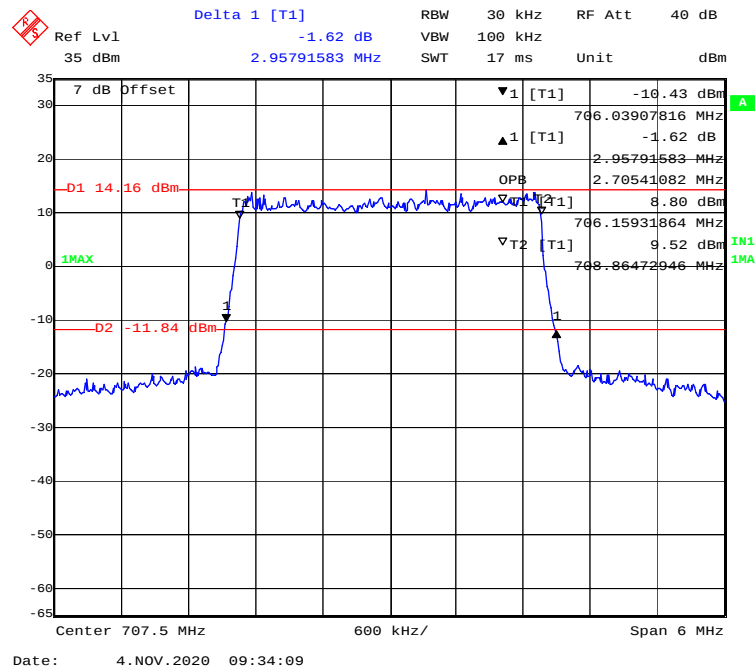
Center 714.5 MHz
 600 kHz/
 Span 6 MHz

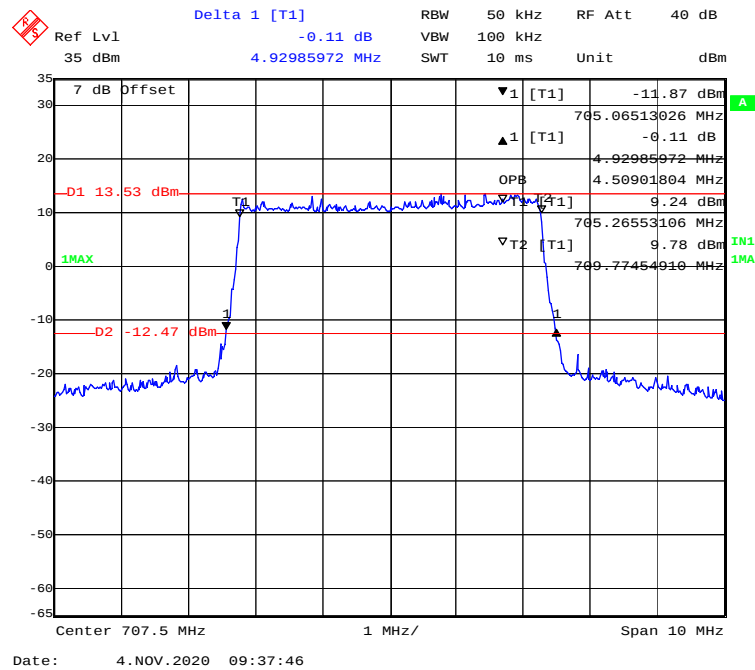
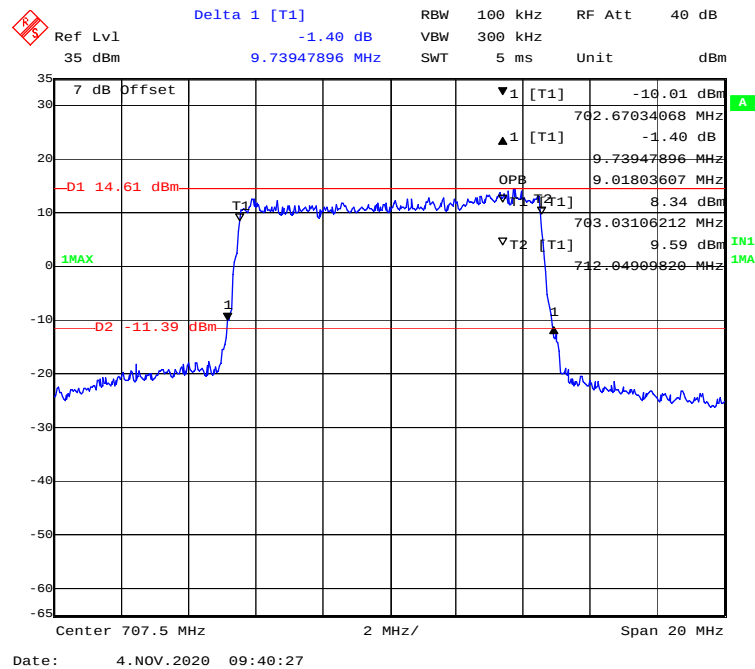
Date: 4.NOV.2020 09:29:50

QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

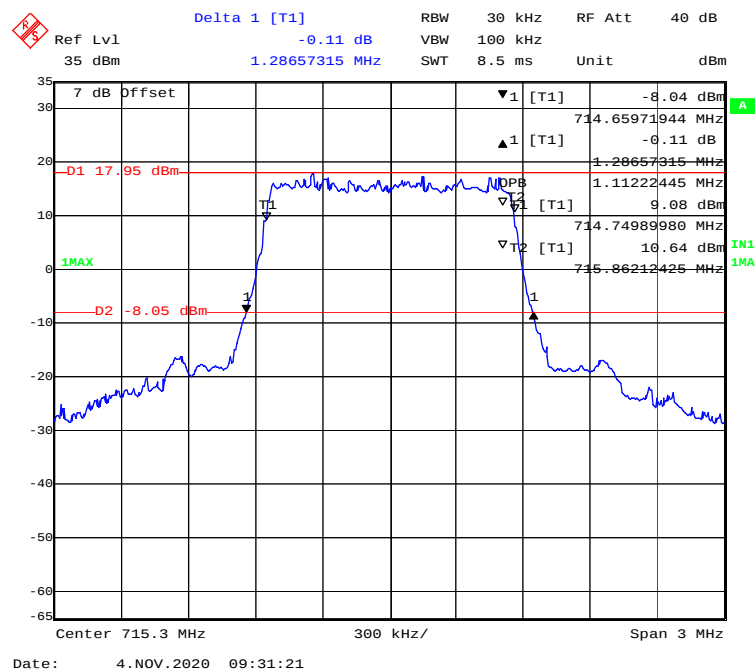
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

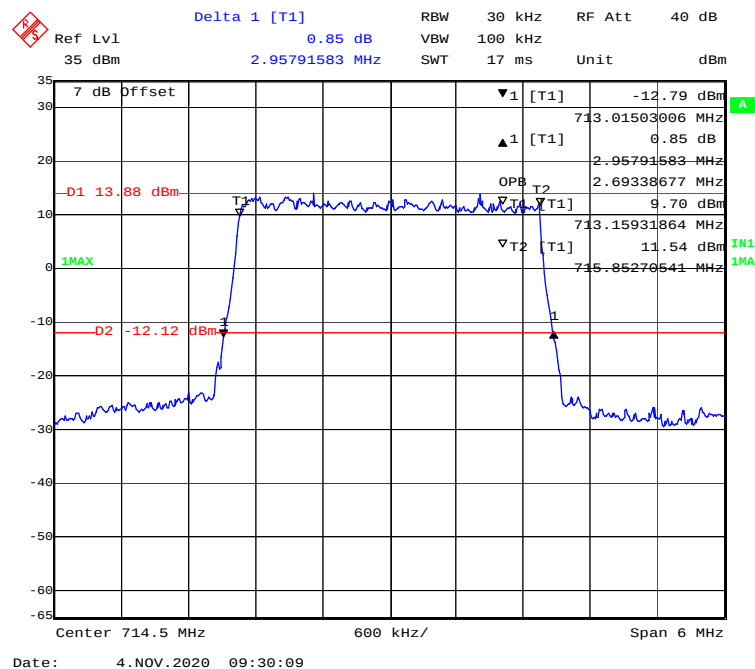
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

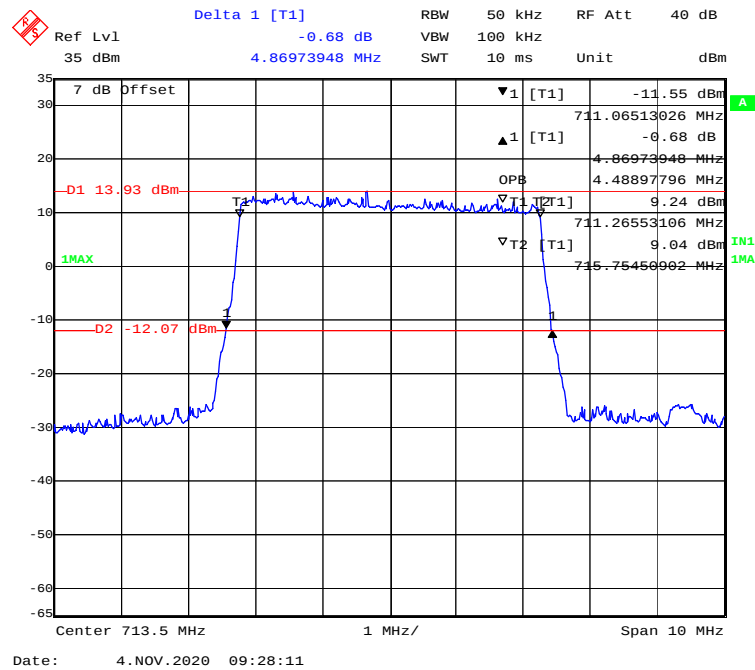
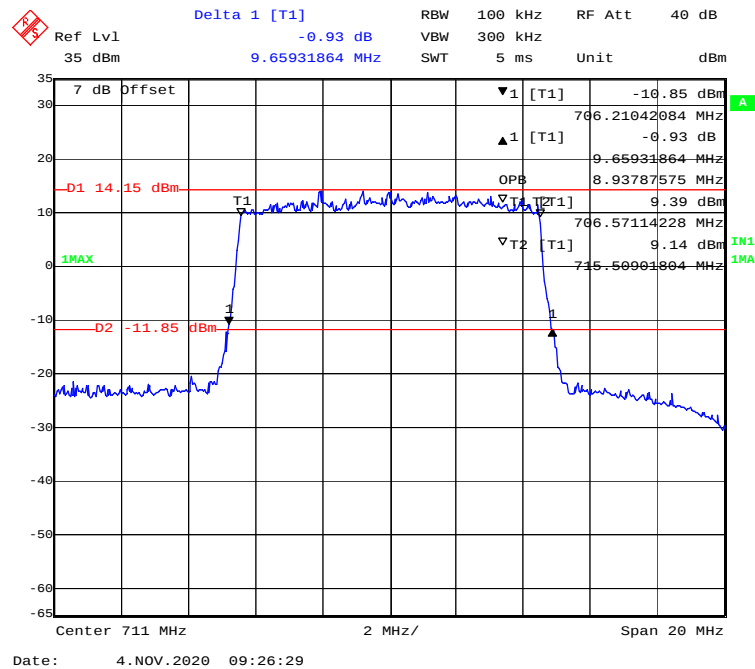
16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel



16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

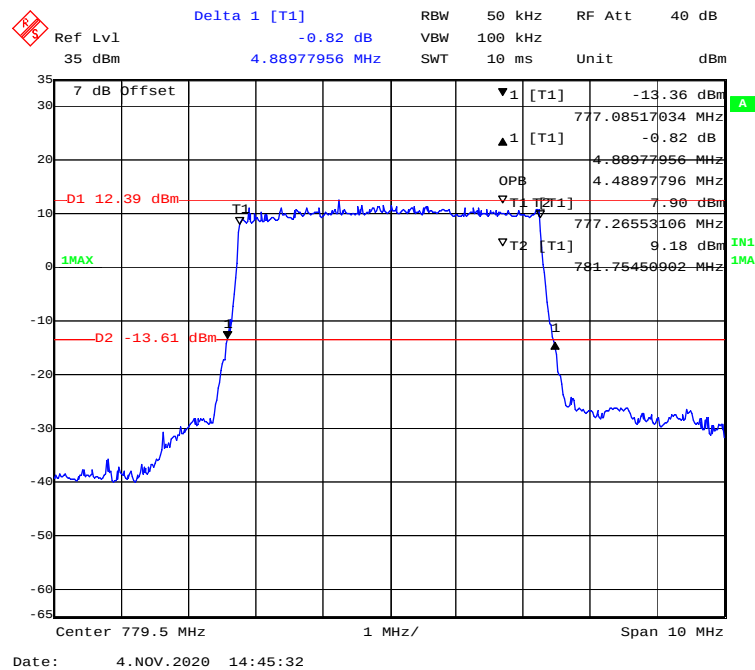


16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

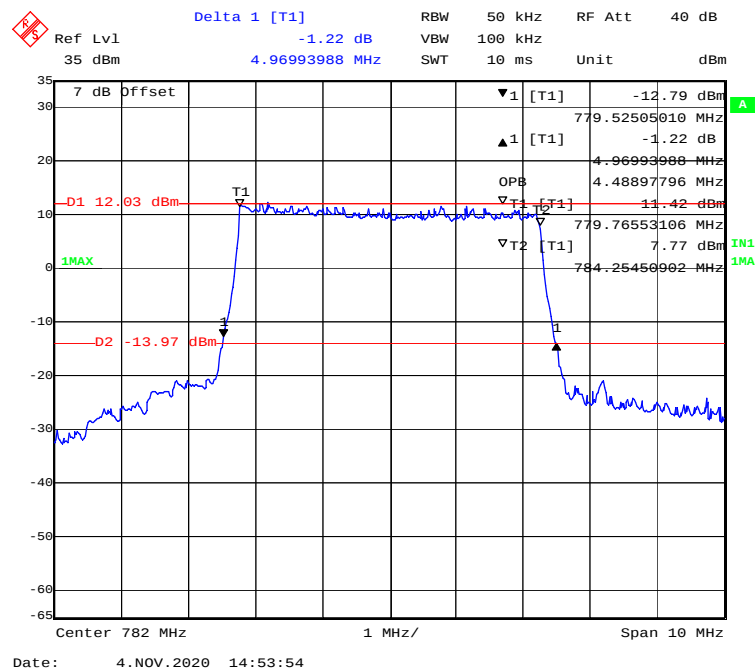
LTE Band 13:

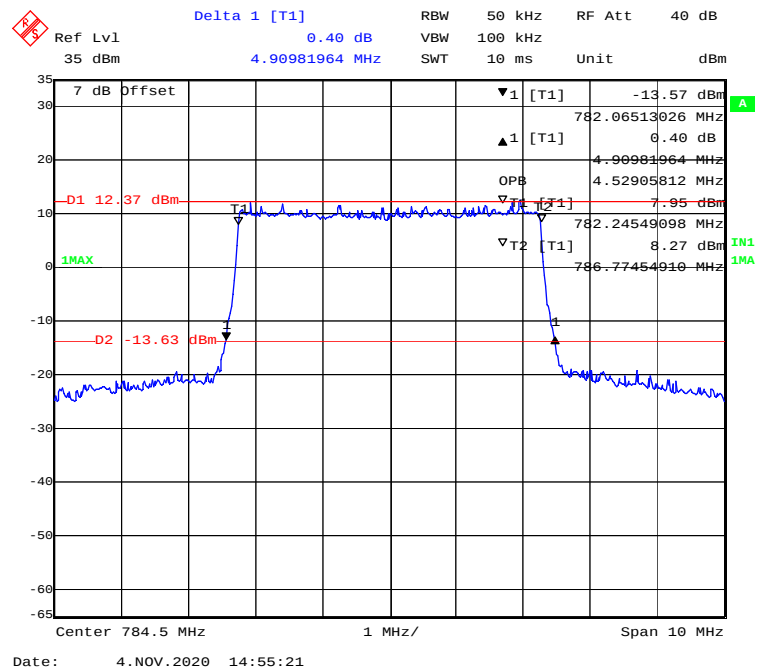
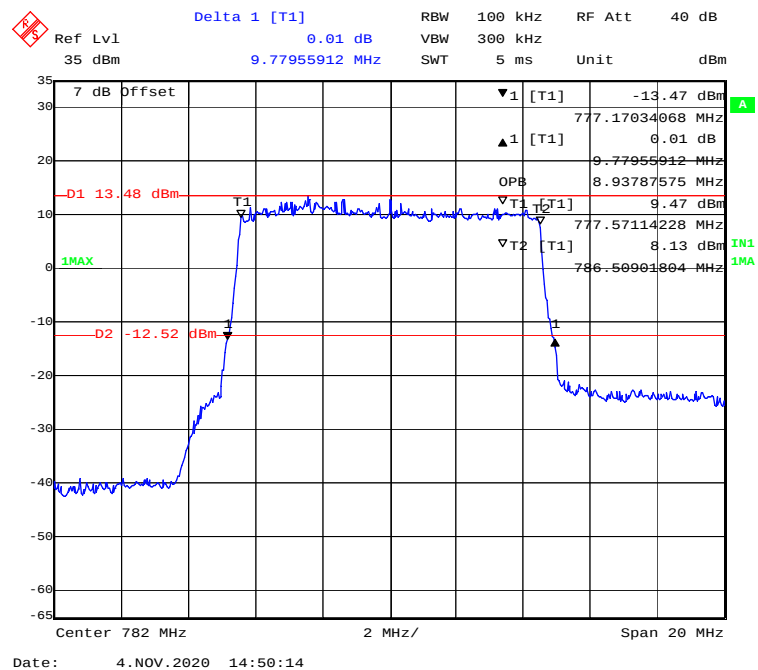
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	5M	Low	4.010	4.489
	5M	Middle	4.970	4.489
	5M	High	4.909	4.529
	10M	/	9.780	8.938
16-QAM	5M	Low	4.890	4.489
	5M	Middle	4.970	4.489
	5M	High	4.910	4.529
	10M	/	9.780	8.938

QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel



QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel



QPSK (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth**

Delta 1 [T1] -0.82 dB

Ref Lvl 35 dBm

RBW 50 kHz

RF Att 40 dB

SWT 10 ms

Unit dBm

7 dB Offset

▼1 [T1] -13.36 dBm

▲1 [T1] -0.82 dB

OPB 4.488977956 MHz

▽T1 [T1] 777.08517034 MHz

▽T2 [T1] 777.26553106 MHz

D1 12.49 dBm

D2 -13.51 dBm

1MAX

1

Center 779.5 MHz

1 MHz/

Span 10 MHz

Date: 4.NOV.2020 14:45:58

Delta 1 [T1] -1.22 dB
 Ref Lvl 35 dBm
 4.96993988 MHz
 RBW 50 kHz
 VBW 10 ms
 SWT 10 ms
 RF Att 40 dB
 Unit dBm

7 dB Offset
 D1 11.93 dBm
 1MAX
 T1
 D2 -14.07 dBm
 T2
 1

1 [T1] -12.79 dBm
 779.52505010 MHz
 -1.22 dB
 4.96993988 MHz
 4.48897796 MHz
 1 [T1] -11.42 dBm
 779.76553106 MHz
 7.77 dBm
 784.25450902 MHz
 1MAX

Center 782 MHz
 1 MHz/
 Span 10 MHz

Date: 4.NOV.2020 14:53:37

Delta L [T1] -1.80 dB RBW 50 kHz VBW 100 kHz RF Att 40 dB
 Ref Lvl 35 dBm SWT 10 ms Unit dBm

7 dB Offset

D1 12.47 dBm

1MAX

D2 -13.53 dBm

▼1 [T1] -11.37 dBm
 782.06513026 MHz
 ▲1 [T1] -1.80 dB
 4.90981964 MHz
 OPB 4.52905812 MHz
 ▼1 [T1] 7.95 dBm
 782.24549098 MHz
 ▽T2 [T1] 8.27 dBm
 786.77454010 MHz

IN1
 1MA

Center 784.5 MHz 1 MHz/ Span 10 MHz

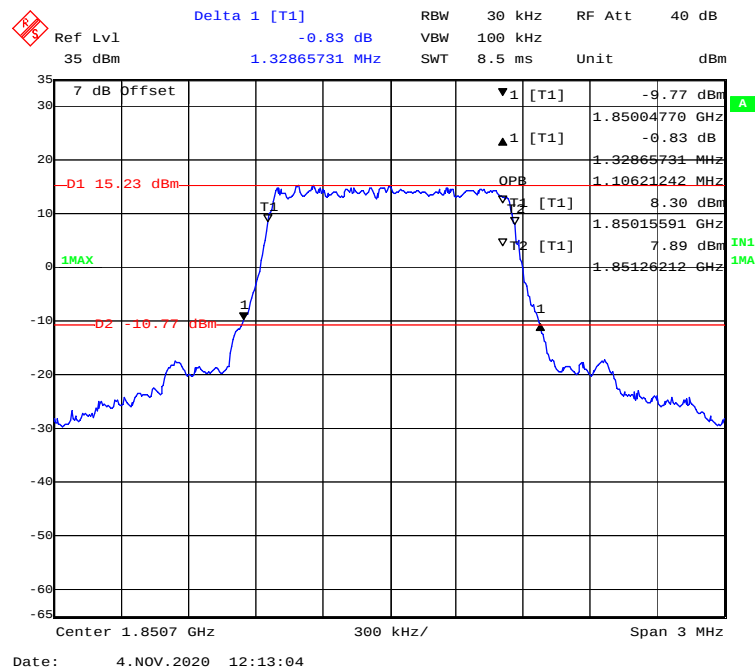
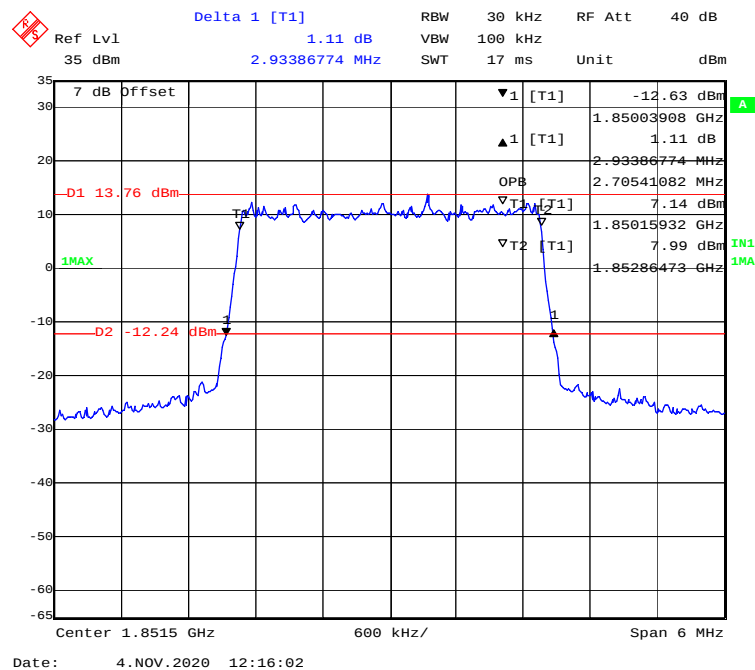
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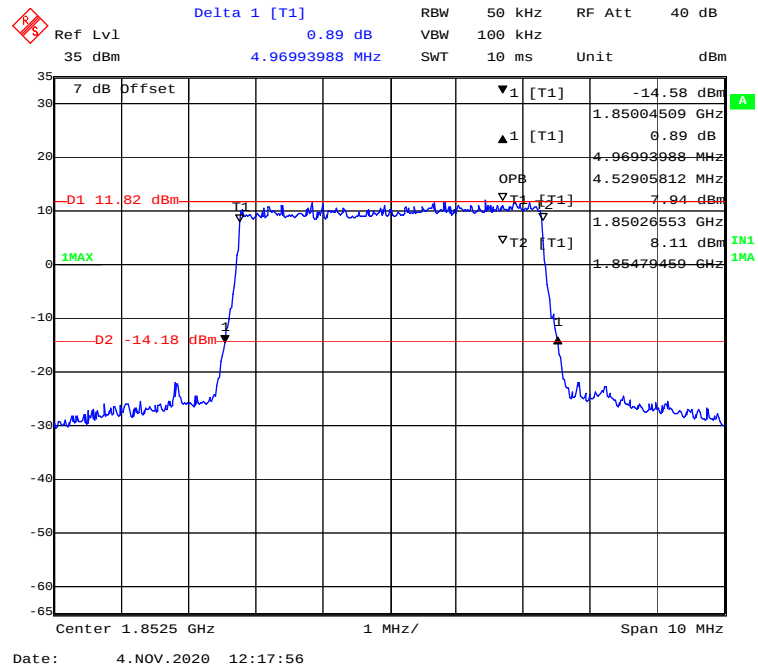
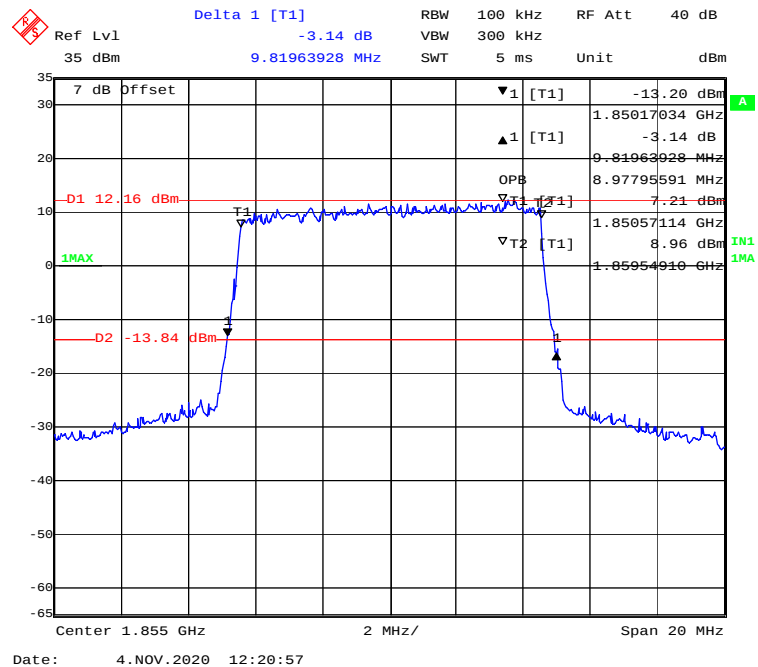
[illegible]

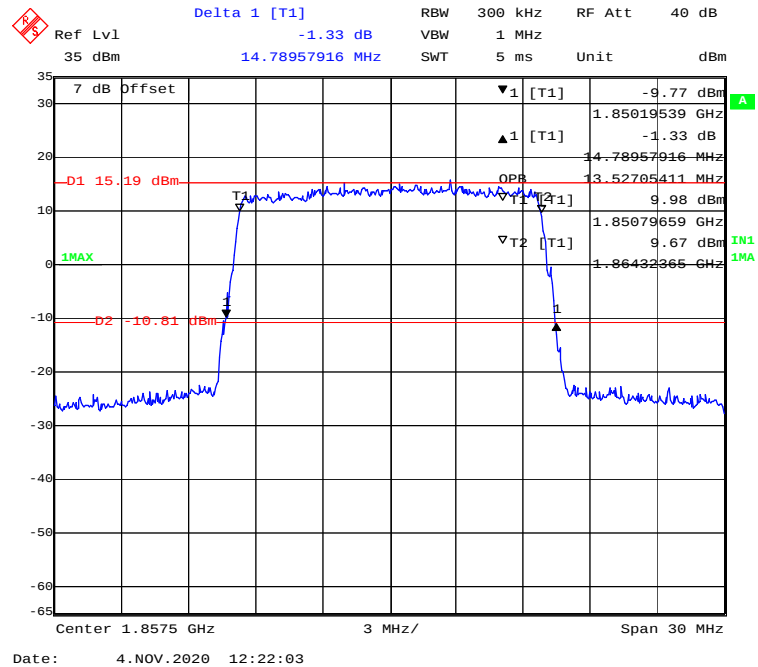
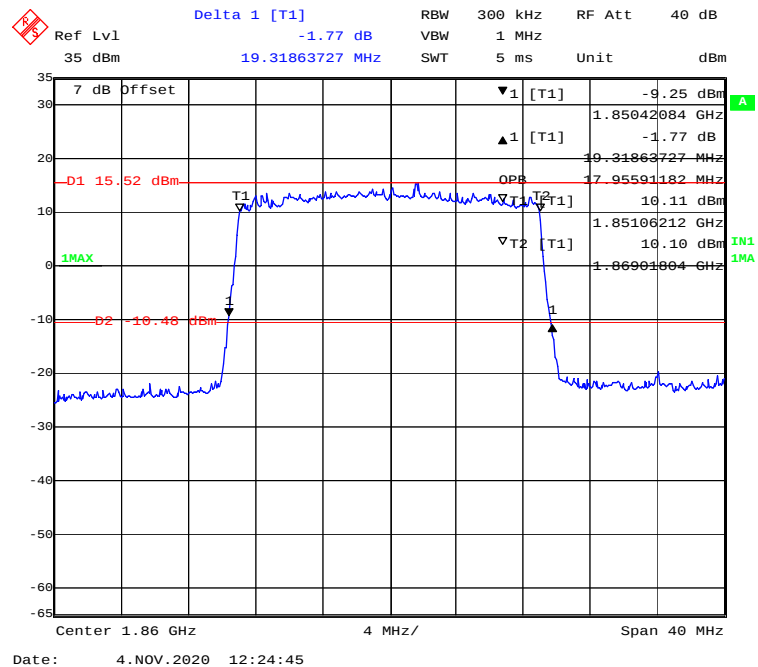
LTE Band 25:

Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	1.4M	Low	1.329	1.106
	3M		2.934	2.705
	5M		4.970	4.529
	10M		9.820	8.978
	15M		14.790	13.527
	20M		19.319	17.956
	1.4M	Middle	1.329	1.106
	3M		2.946	2.705
	5M		4.970	4.509
	10M		9.860	8.978
	15M		14.970	13.527
	20M		19.399	17.956
	1.4M	High	1.323	1.106
	3M		2.970	2.693
	5M		4.950	4.489
	10M		9.619	8.978
	15M		14.850	13.467
	20M		19.479	17.876

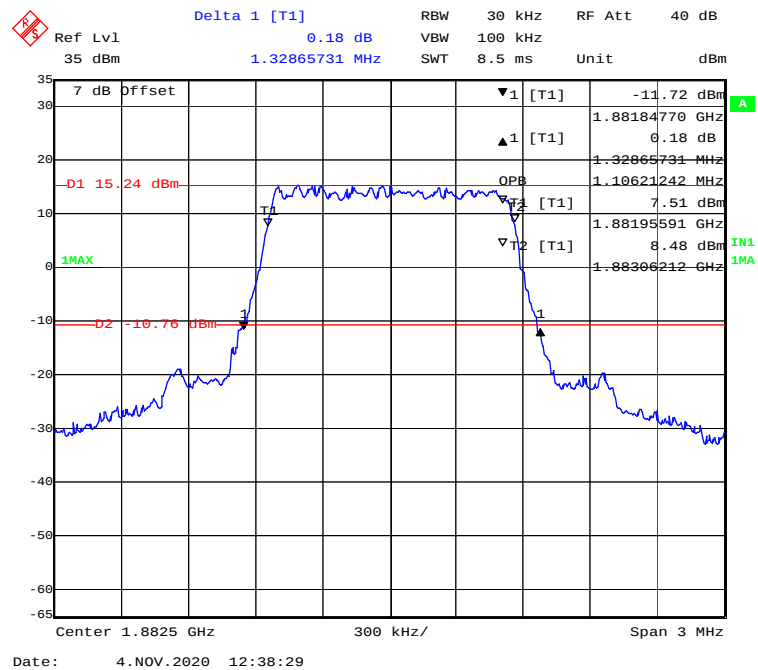
Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
16-QAM	1.4M	Low	1.329	1.112
	3M		2.958	2.705
	5M		4.970	4.529
	10M		9.780	8.978
	15M		14.850	13.527
	20M		19.238	17.956
	1.4M	Middle	1.323	1.106
	3M		2.946	2.705
	5M		4.970	4.509
	10M		9.860	8.978
	15M		15.030	13.527
	20M		19.399	17.956
	1.4M	High	1.323	1.106
	3M		2.970	2.693
	5M		4.950	4.489
	10M		9.619	8.978
	15M		14.850	13.467
	20M		19.479	17.876

QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

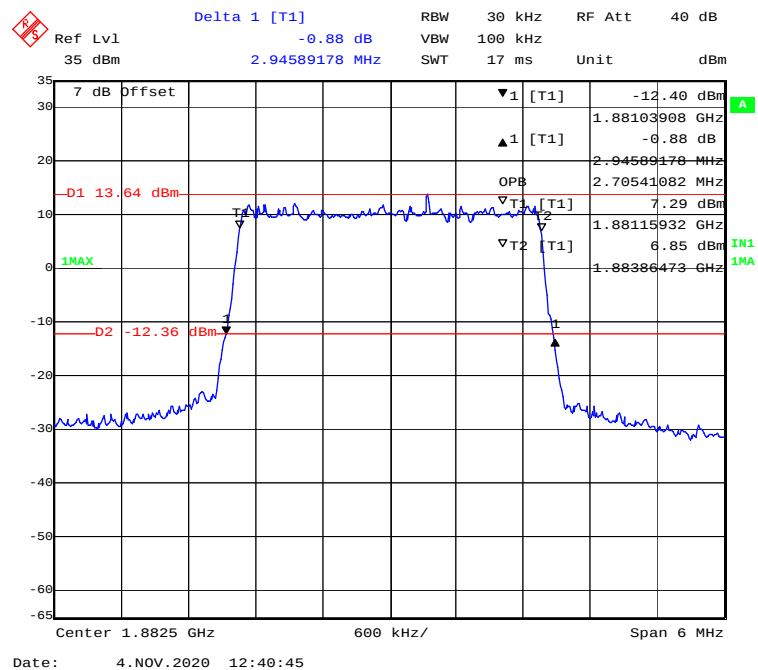
QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

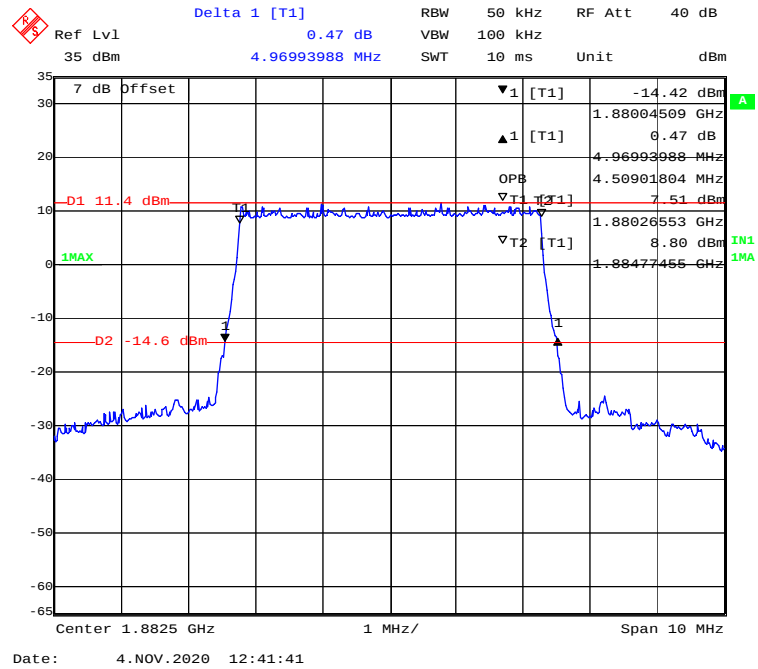
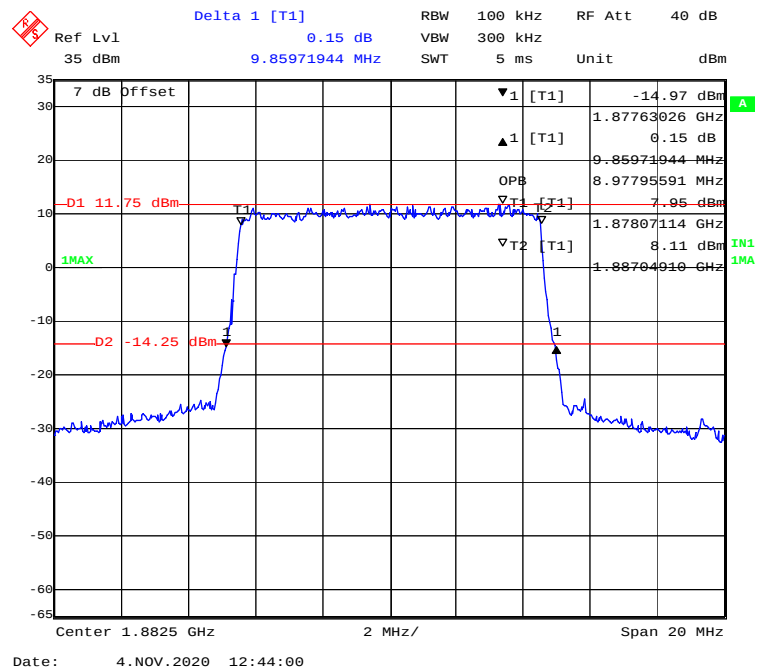
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

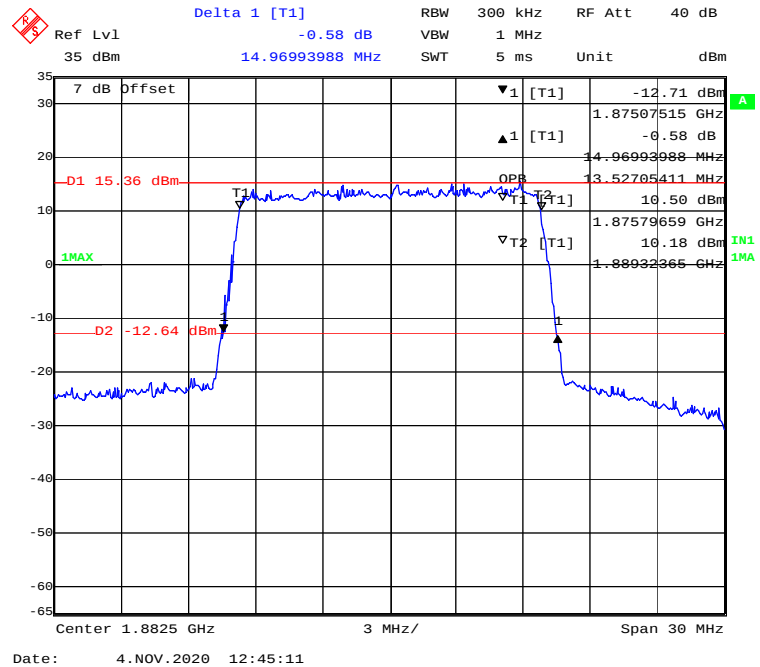
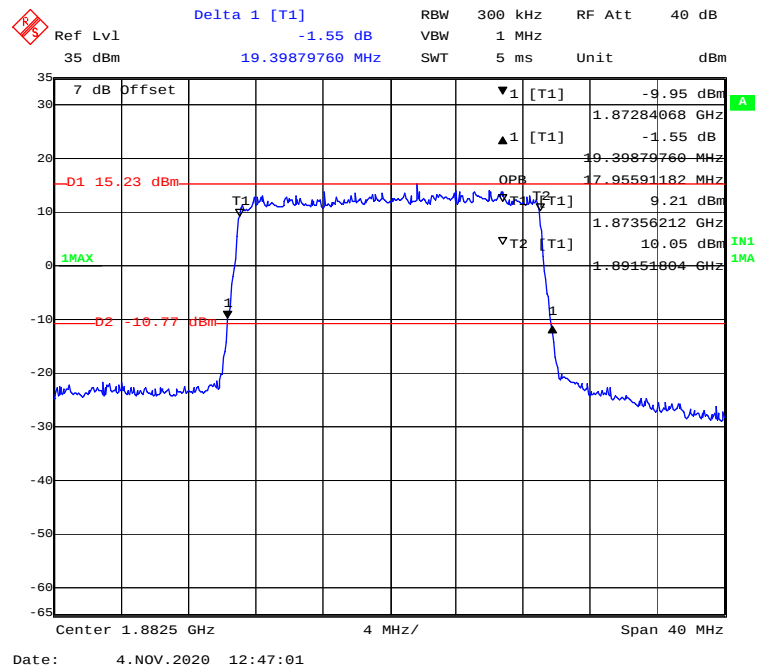
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

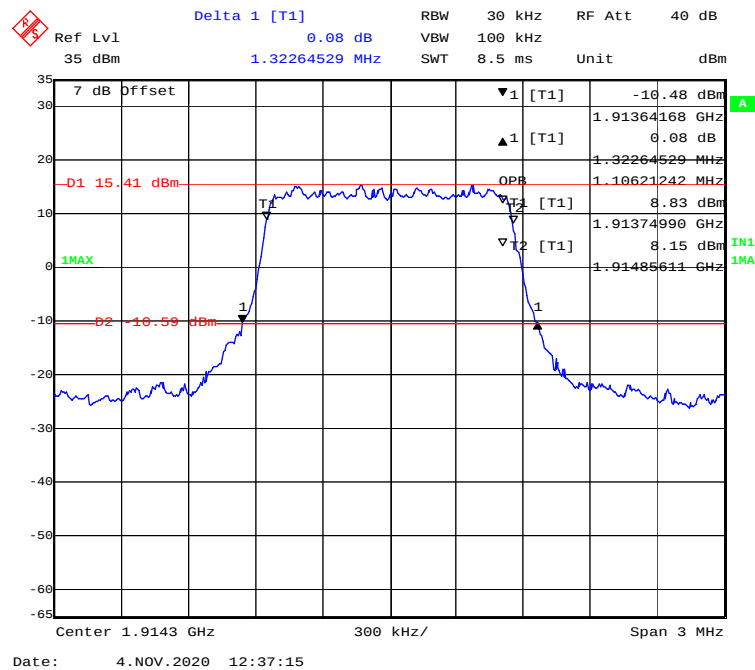
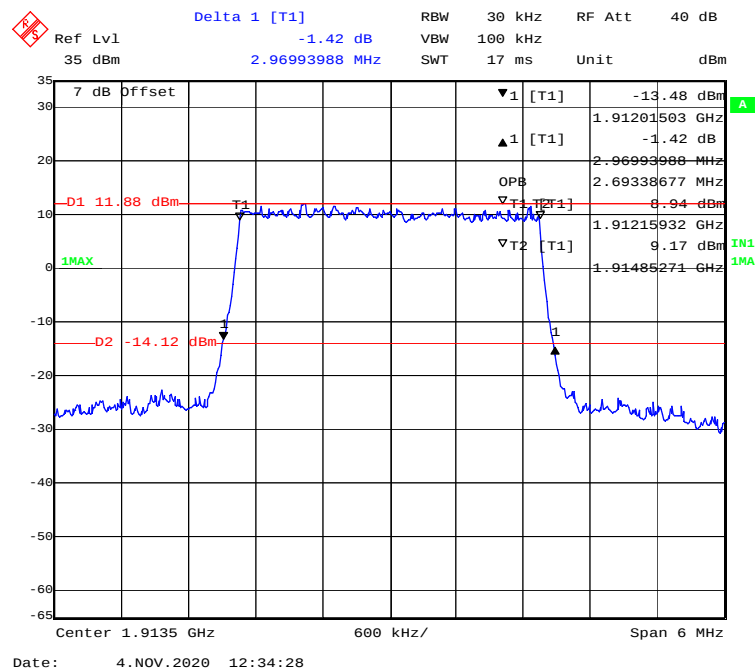


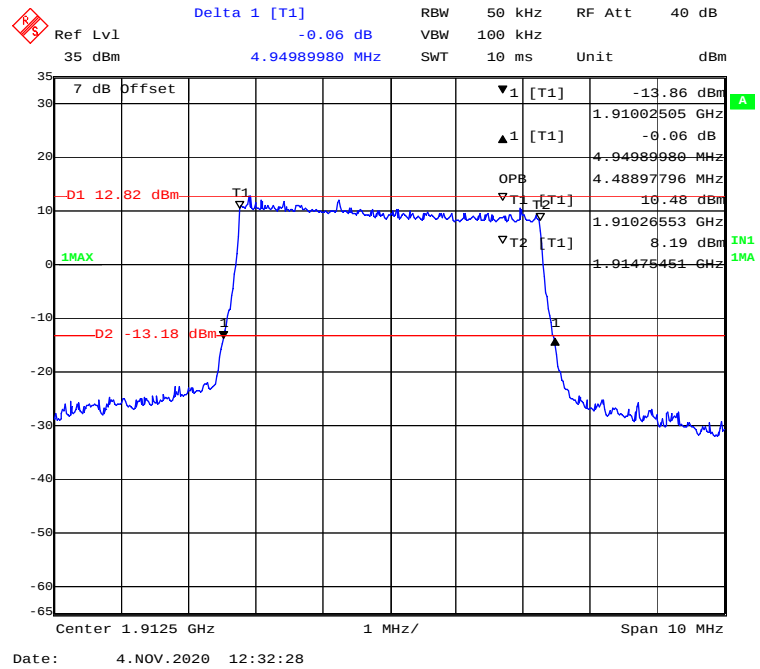
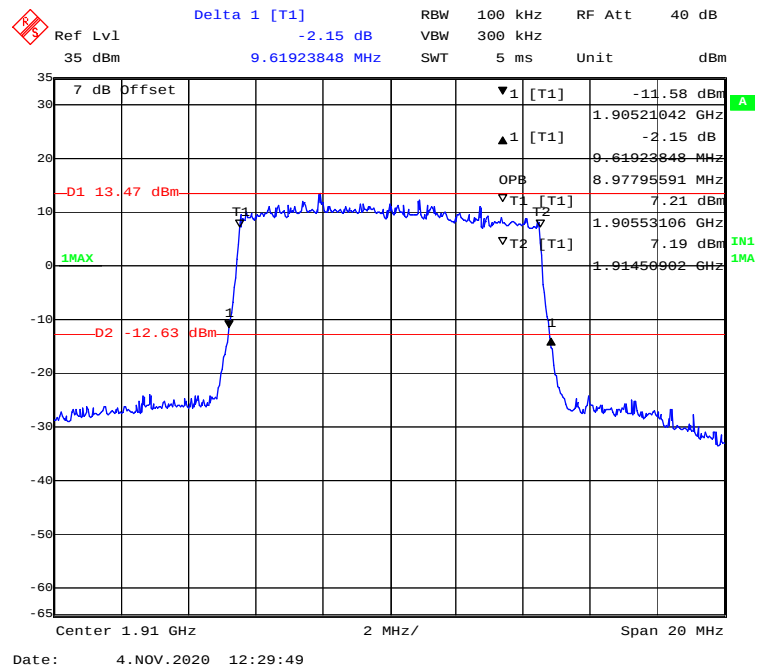
QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel

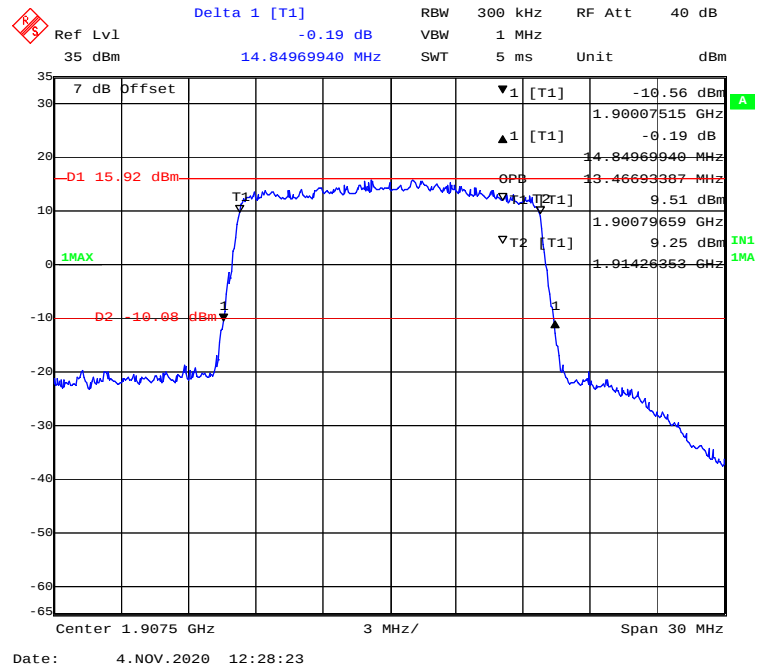
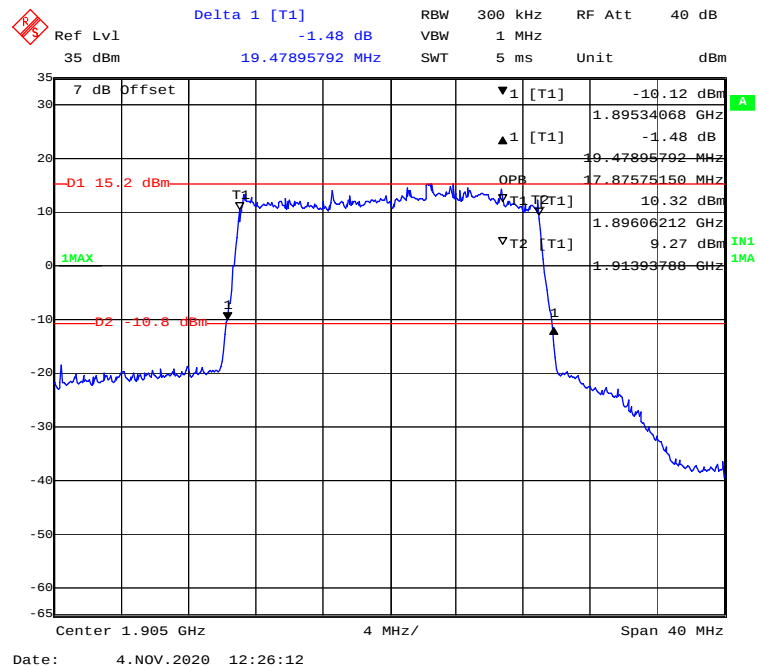


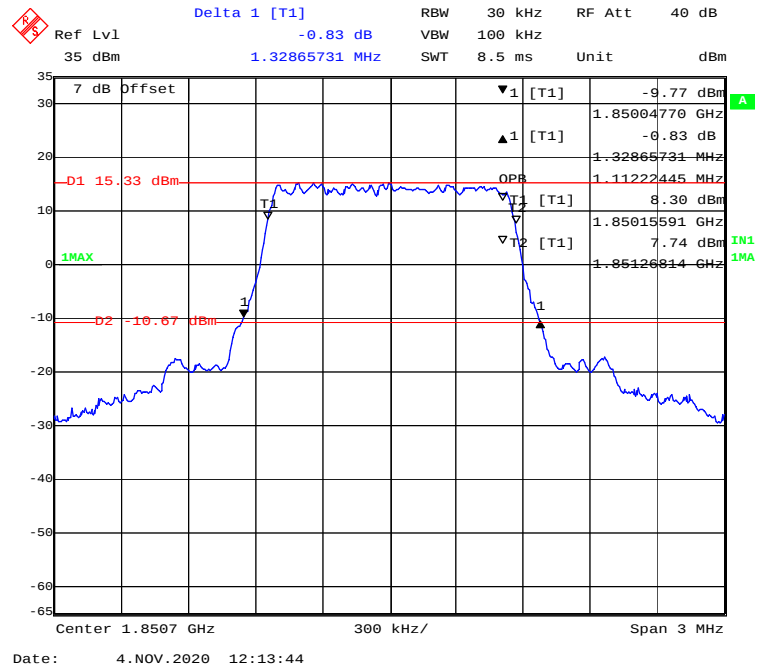
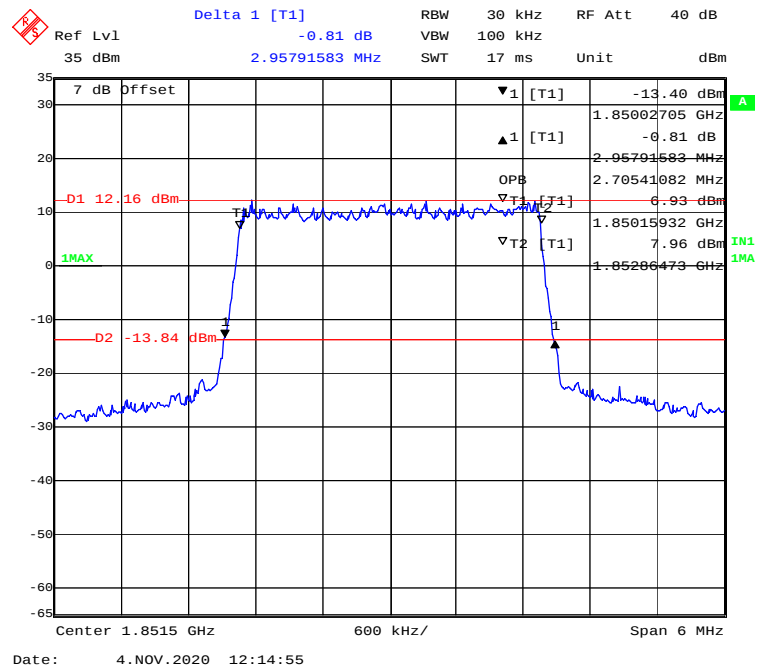
QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

[illegible]

Ref Lvl 35 dBm
 Delta 1 [T1] -1.36 dB
 RBW 100 kHz
 RF Att 40 dB
 VBW 300 kHz
 SWT 5 ms
 Unit dBm

7 dB Offset
 -13.20 dBm
 -1.36 dB
 9.77955912 MHz
 8.97795591 MHz
 6.73 dBm
 1.85017034 GHz
 1.85057114 GHz
 8.96 dBm
 1.85054910 GHz

D1 12.06 dBm
 D2 -13.94 dBm

1MAX
 IN1 1MA

Center 1.855 GHz
 2 MHz/
 Span 20 MHz

Date: 4.NOV.2020 12:20:34

Delta 1 [T1] -2.74 dB

RBW 300 kHz RF Att 40 dB

Ref Lvl 35 dBm

SWT 5 ms

Unit dBm

7 dB Offset

D1 15.79 dBm

1MAX

D2 10.21 dBm

▼1 [T1] -9.28 dBm

▲1 [T1] -2.74 dB

14.84969940 MHz

OPB 13.52705411 MHz

▽T1 [T1] 10.22 dBm

1.85079659 GHz

▽T2 [T1] 9.67 dBm

1.86432365 GHz

IN1 1MA

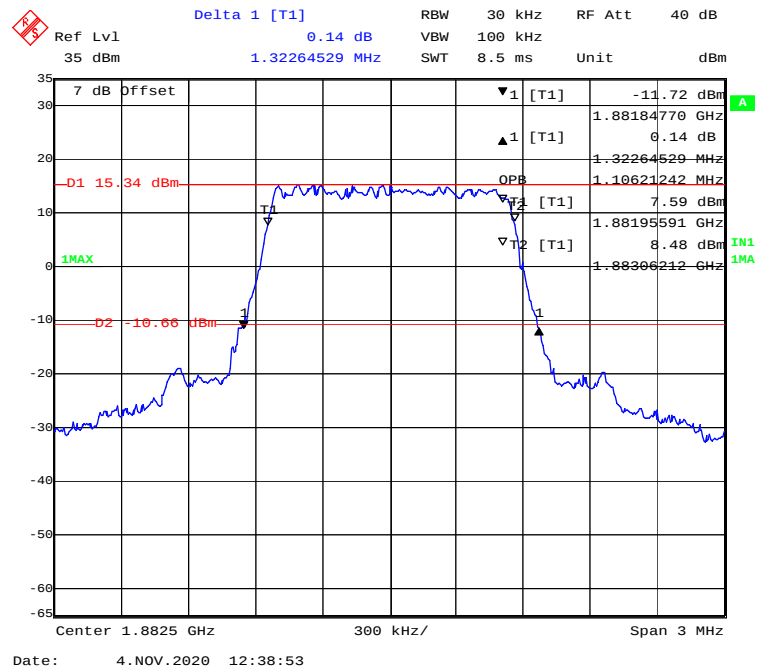
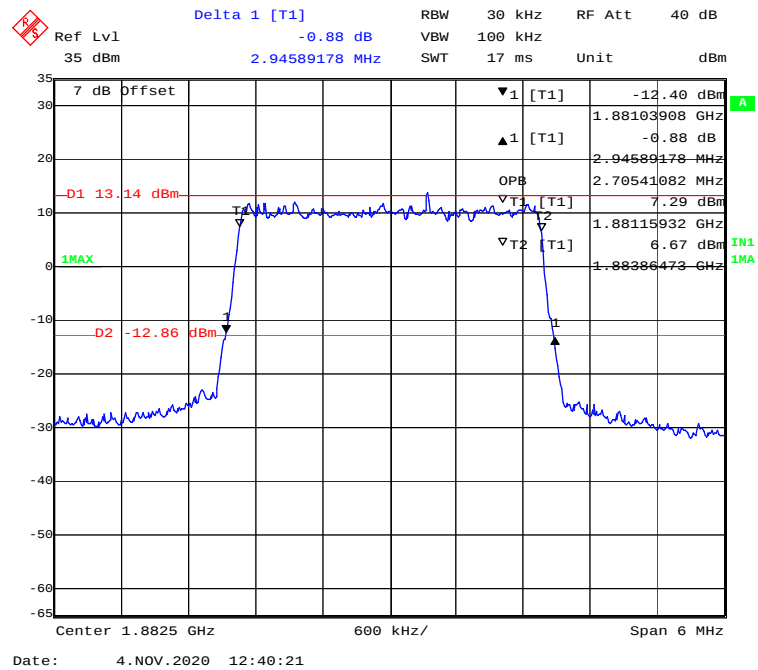
Center 1.8575 GHz

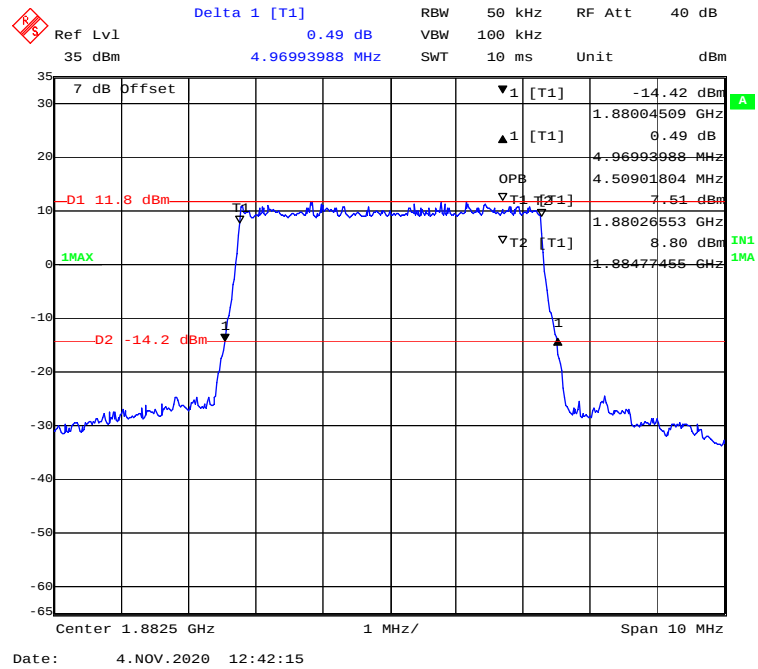
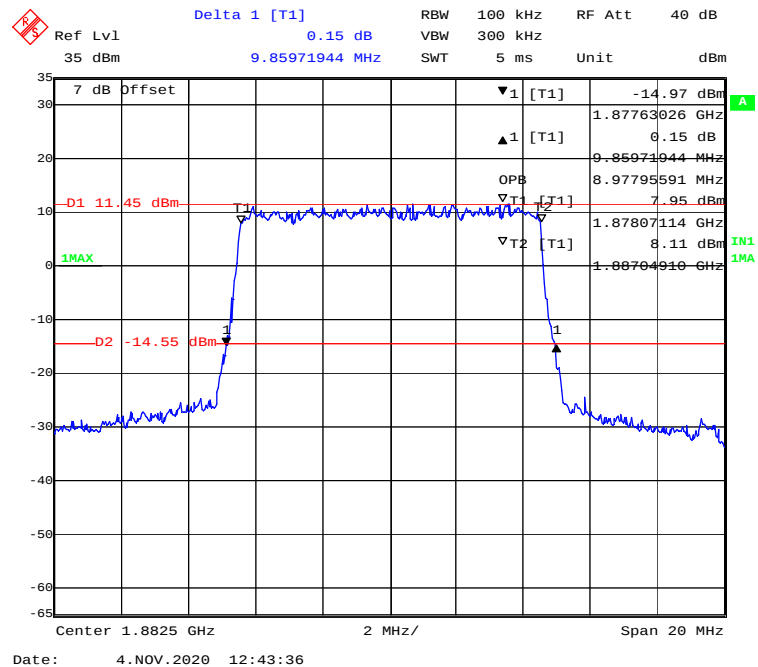
3 MHz/

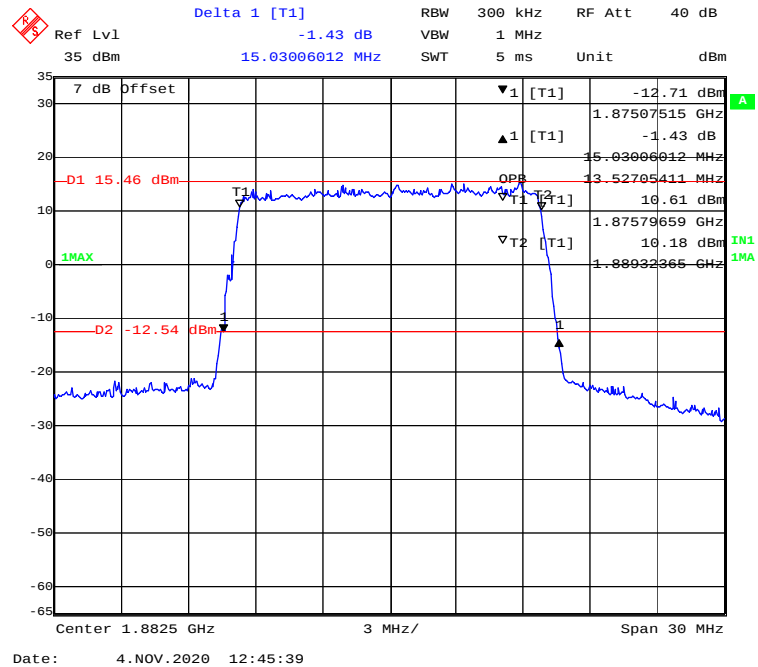
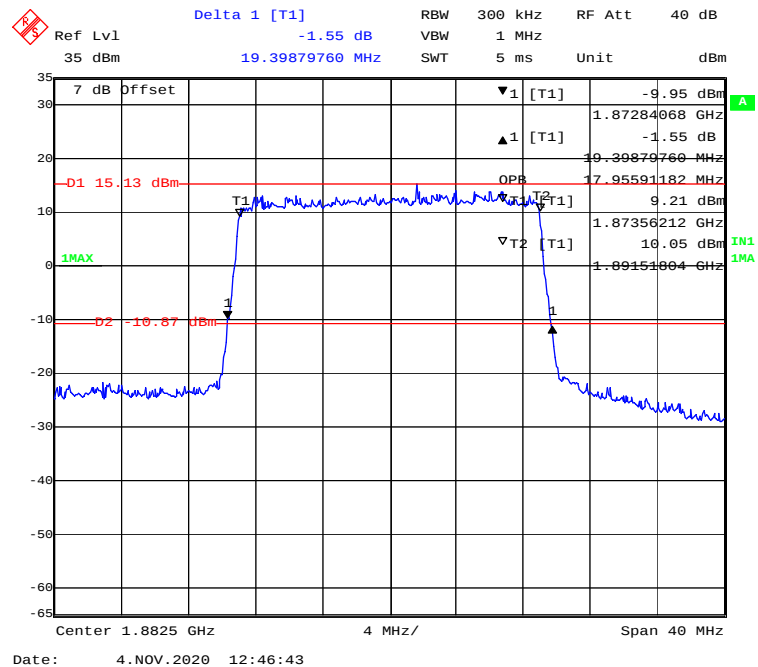
Span 30 MHz

Date: 4.NOV.2020 12:22:36

[illegible]

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

[illegible]

Ref Lvl 35 dBm
 Delta 1 [T1] -1.42 dB
 RBW 30 kHz
 VBW 100 kHz
 RF Att 40 dB
 SWT 17 ms
 Unit dBm

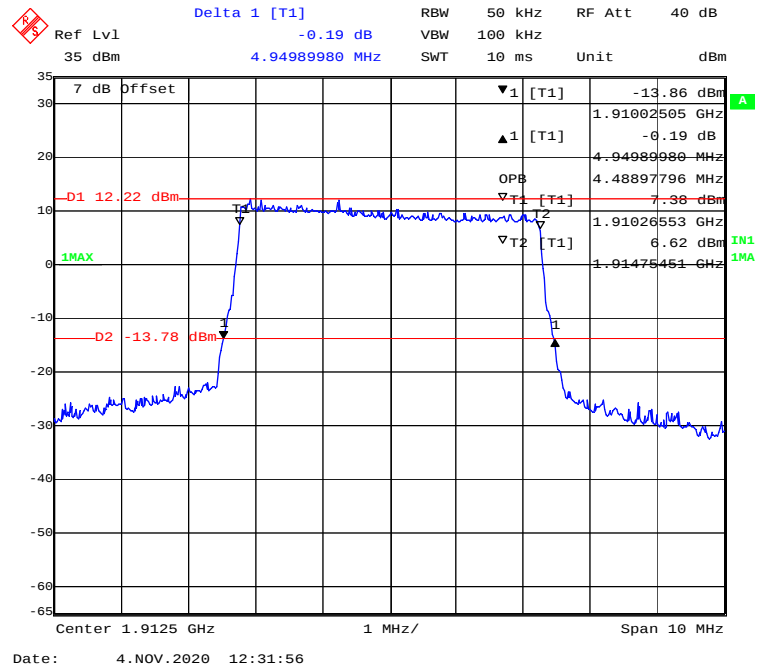
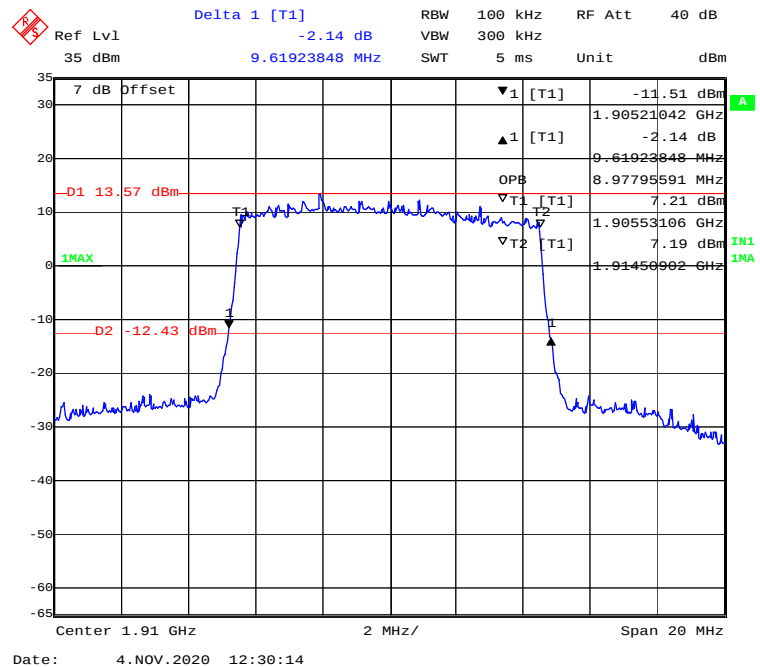
7 dB Offset
 -13.48 dBm
 -1.42 dB
 2.96993988 MHz
 2.96993988 MHz
 2.69338677 MHz
 8.04 dBm
 1.91201503 GHz
 1.91215932 GHz
 9.44 dBm
 1.91485271 GHz

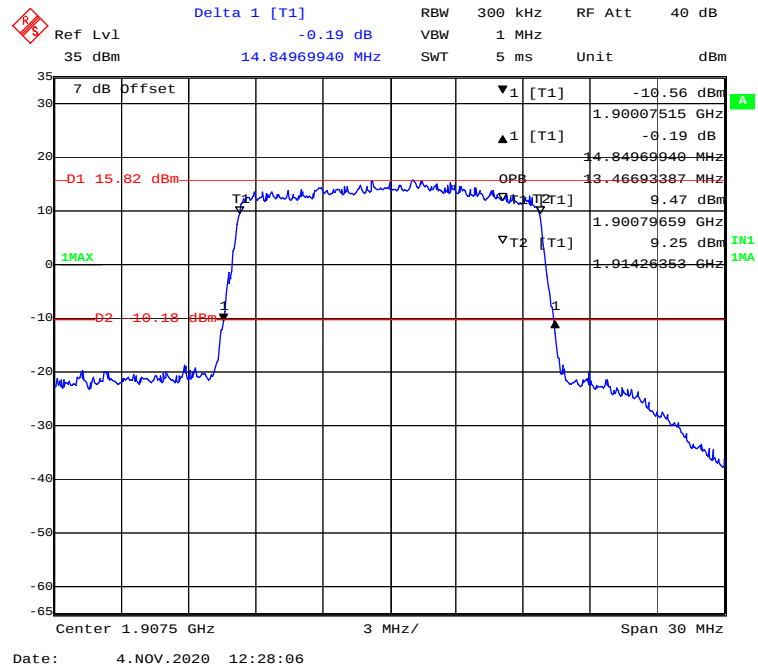
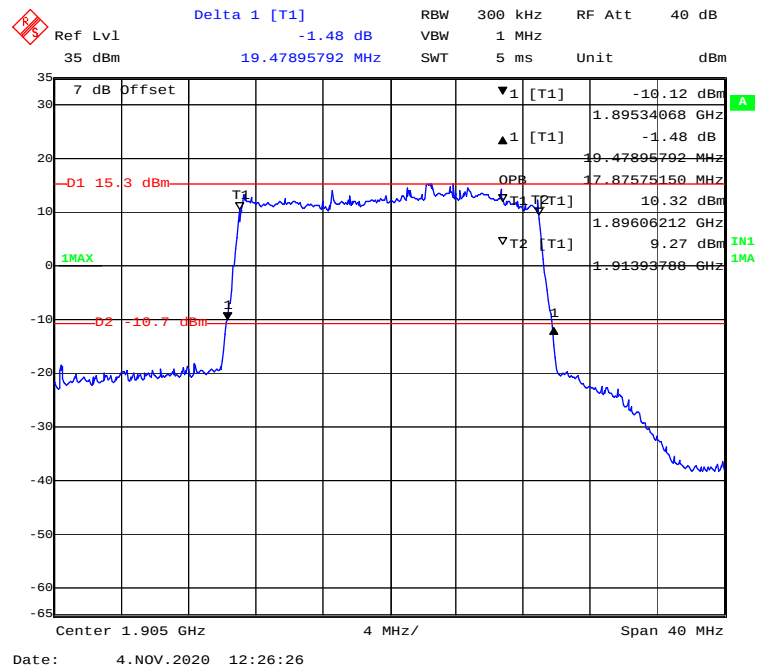
D1 12.08 dBm
 D2 -13.92 dBm
 T1
 T2
 T1
 T2
 T1
 T2

IMAX
 IN1
 IMA

Center 1.9135 GHz
 600 kHz/
 Span 6 MHz

Date: 4.NOV.2020 12:34:57

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (20 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

LTE Band 26:

Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
QPSK	1.4M	Low	1.299	1.106
	3M		2.946	2.693
	5M		4.970	4.489
	10M		9.900	9.018
	15M		14.790	13.467
	1.4M	Middle	1.293	1.106
	3M		2.946	2.693
	5M		4.990	4.489
	10M		9.780	8.978
	15M		14.970	13.527
	1.4M	High	1.311	1.106
	3M		2.970	2.693
	5M		4.930	4.489
	10M		9.699	8.938
	15M		14.910	13.587

Test Modulation	Test Bandwidth	Test Channel	26 dB Bandwidth	99% Occupied Bandwidth
			MHz	MHz
16-QAM	1.4M	Low	1.299	1.118
	3M		2.946	2.693
	5M		4.970	4.509
	10M		9.900	9.018
	15M		14.790	13.467
	1.4M	Middle	1.293	1.118
	3M		2.946	2.693
	5M		4.990	4.489
	10M		9.699	8.978
	15M		14.970	13.527
	1.4M	High	1.311	1.106
	3M		2.970	2.693
	5M		4.930	4.509
	10M		9.700	8.978
	15M		14.910	13.587

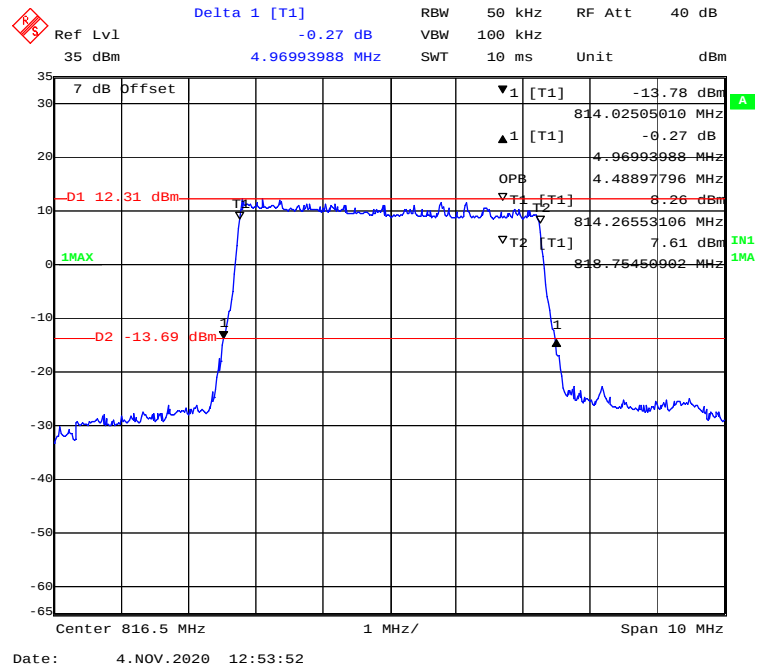
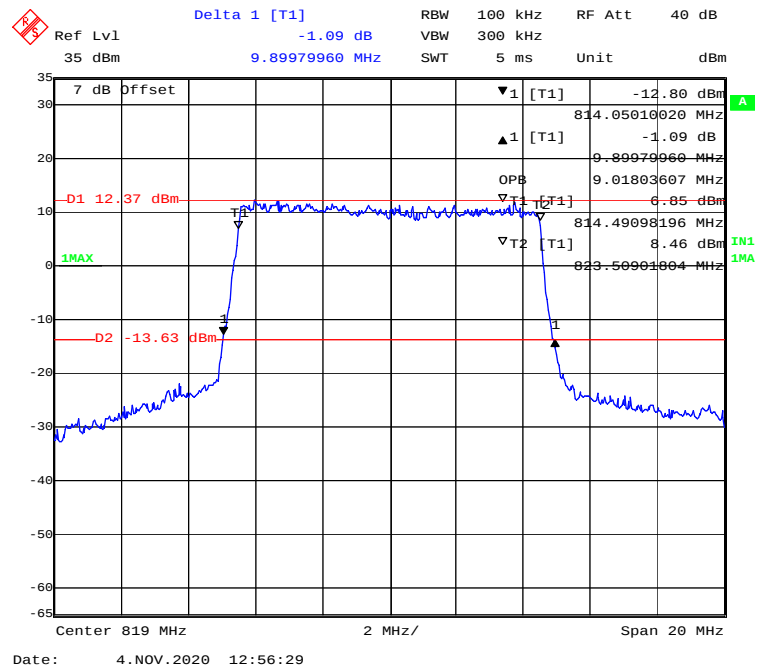
Delta 1 [T1] -0.95 dB
 Ref Lvl 35 dBm
 RBW 30 kHz
 VBW 100 kHz
 SWT 8.5 ms
 RF Att 40 dB
 Unit dBm
 Center 814.7 MHz
 Span 3 MHz
 Date: 4.NOV.2020 12:49:40

Delta 1 [T1] 0.03 dB
 Ref Lvl 35 dBm
 RBW 30 kHz
 VBW 100 kHz
 SWT 17 ms
 RF Att 40 dB
 Unit dBm

7 dB Offset
 D1 14.09 dBm
 1MAX
 D2 -11.91 dBm
 1MA

Center 815.5 MHz
 600 kHz/
 Span 6 MHz

Date: 4.NOV.2020 12:52:16

QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

Delta 1 [T1] 1.45 dB
 Ref Lvl 35 dBm
 14.78957916 MHz
 RBW 300 kHz
 VBW 1 MHz
 SWT 5 ms
 RF Att 40 dB
 Unit dBm

7 dB Offset
 D1 12.78 dBm
 D2 -13.22 dBm
 1MAX
 1MA

Center 821.5 MHz
 3 MHz/
 Span 30 MHz

Date: 19. NOV. 2020 10:01:23

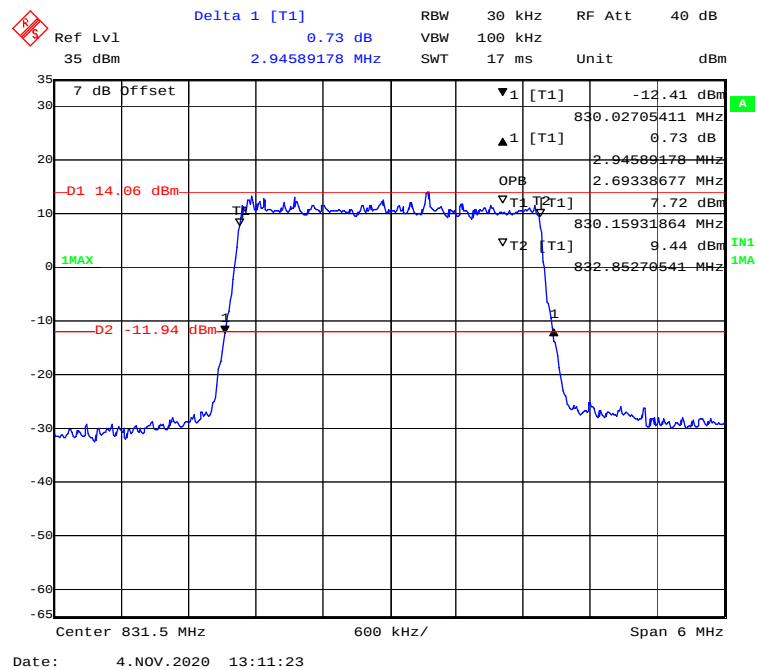
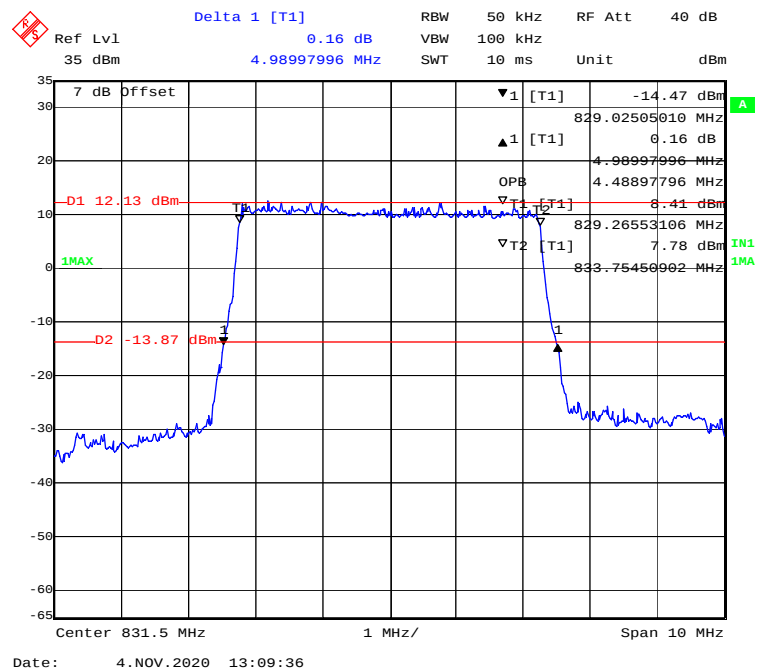
Ref Lvl 35 dBm
 Delta 1 [T1] 0.22 dB
 1.29258517 MHz
 RBW 30 kHz
 VBW 100 kHz
 SWT 8.5 ms
 RF Att 40 dB
 Unit dBm

7 dB Offset
 D1 16.2 dBm
 1MAX
 D2 -9.8 dBm

▼1 [T1] -9.99 dBm
 ▲1 [T1] 0.22 dB
 1.29258517 MHz
 OPS 1.10621242 MHz
 ▽1 [T1] 7.25 dBm
 830.94989980 MHz
 ▽1 [T1] 8.77 dBm
 832.05611222 MHz

Center 831.5 MHz
 300 kHz/
 Span 3 MHz

Date: 4.NOV.2020 13:12:15

QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

Ref Lvl 35 dBm Delta 1 [T1] -1.41 dB RBW 100 kHz RF Att 40 dB
 VBW 300 kHz SWT 5 ms Unit dBm

7 dB Offset

D1 12.59 dBm

1MAX

D2 -13.41 dBm

▼1 [T1] -14.11 dBm
 ▲1 [T1] -1.41 dB
 OPB 8.977955912 MHz
 ▽T1 [T1] 8.44 dBm
 ▽T2 [T1] 8.41 dBm

Center 831.5 MHz 2 MHz/ Span 20 MHz

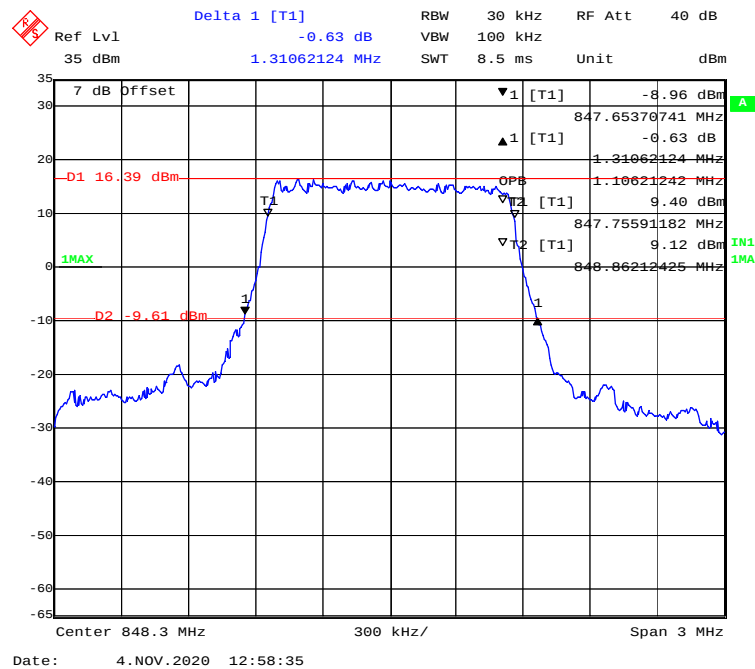
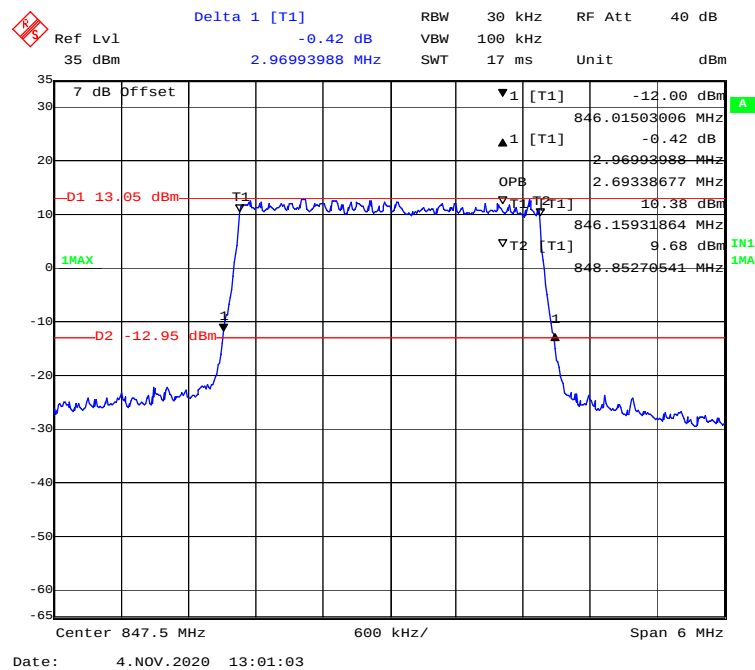
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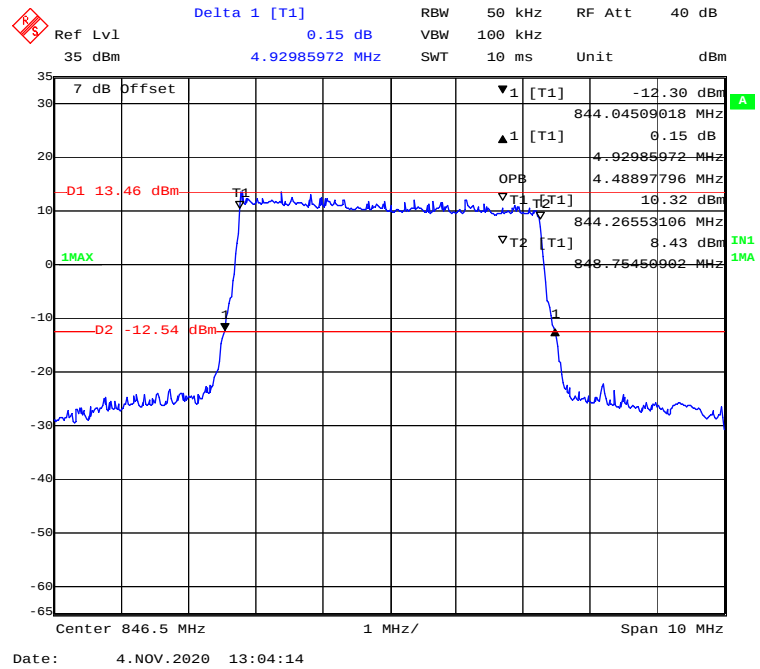
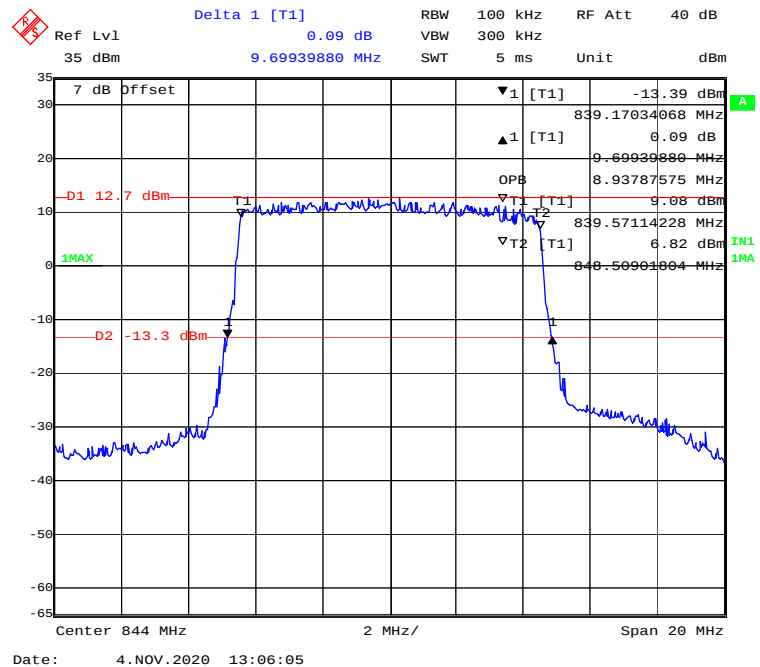
Delta 1 [T1] 0.60 dB
 14.96993988 MHz
 Ref Lvl 35 dBm
 RBW 300 kHz
 VBW 1 MHz
 SWT 5 ms
 RF Att 40 dB
 Unit dBm

7 dB Offset
 D1 12.64 dBm
 D2 -13.36 dBm
 1MAX
 1MA

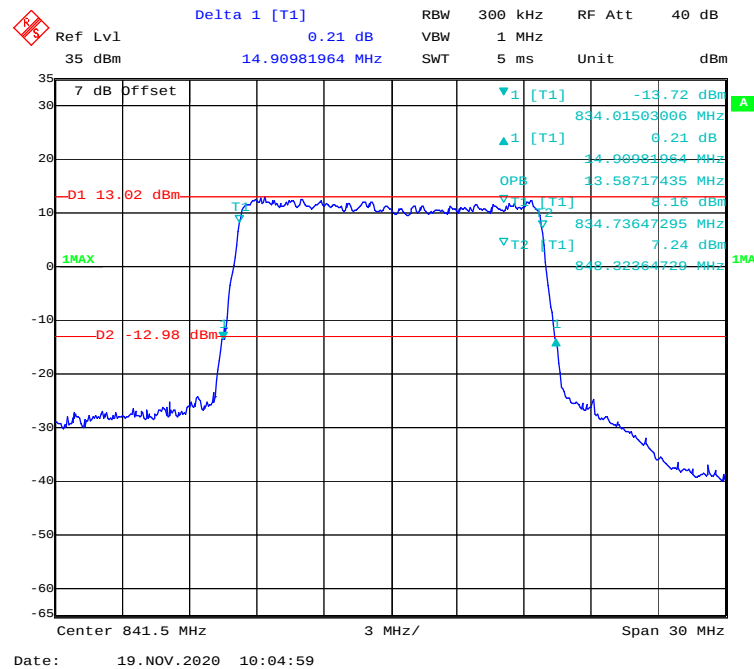
Center 831.5 MHz
 3 MHz/
 Span 30 MHz

Date: 19. NOV. 2020 09:56:35

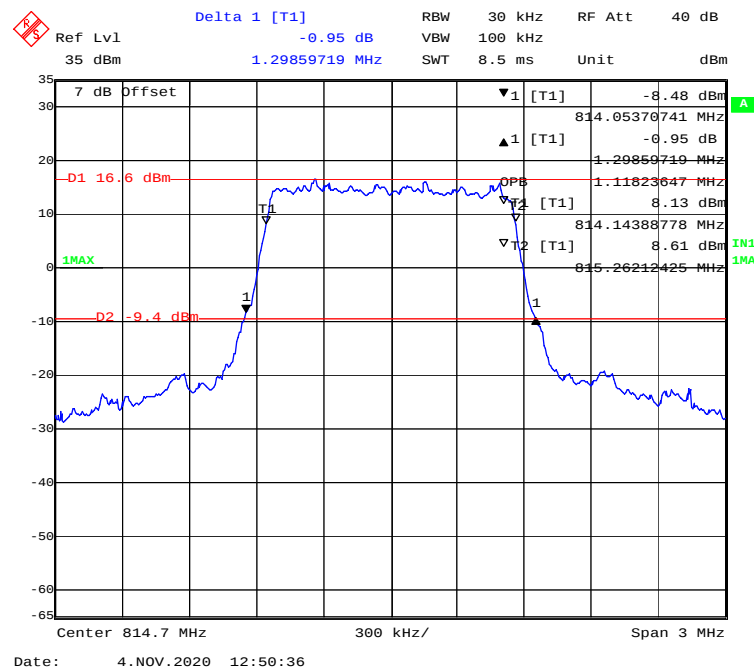
QPSK (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

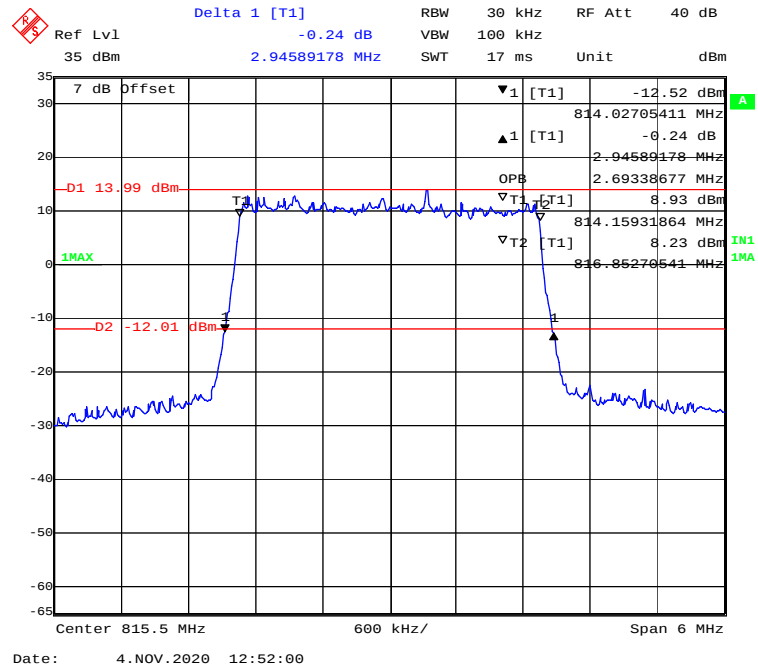
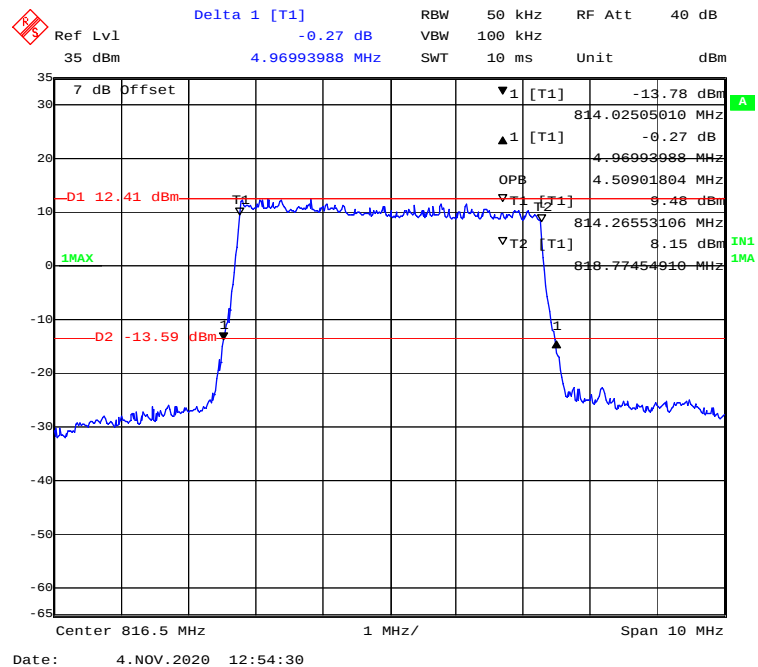
QPSK (5MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**QPSK (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

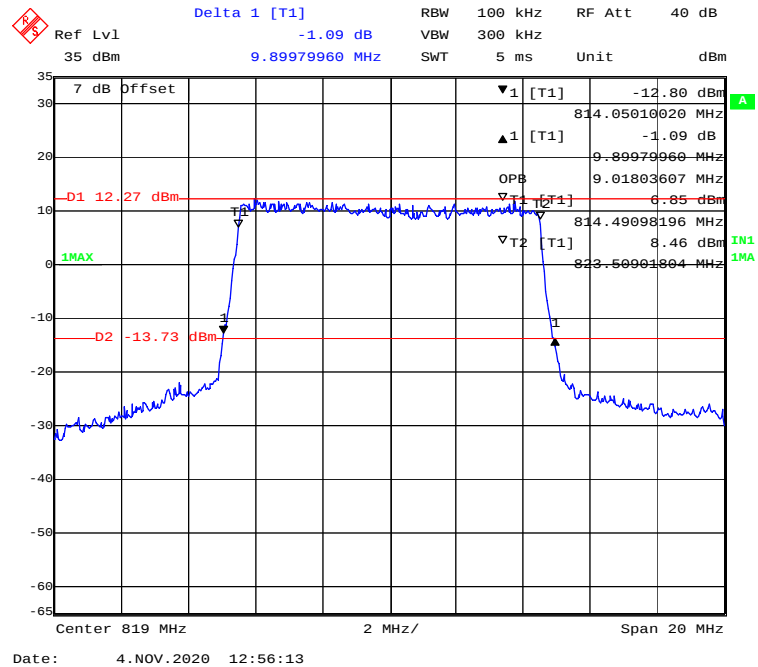
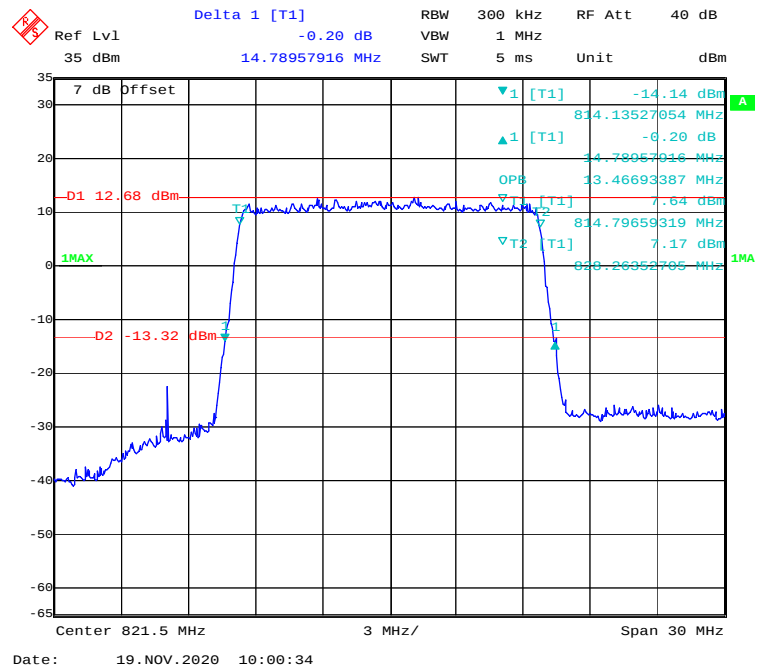
QPSK (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel

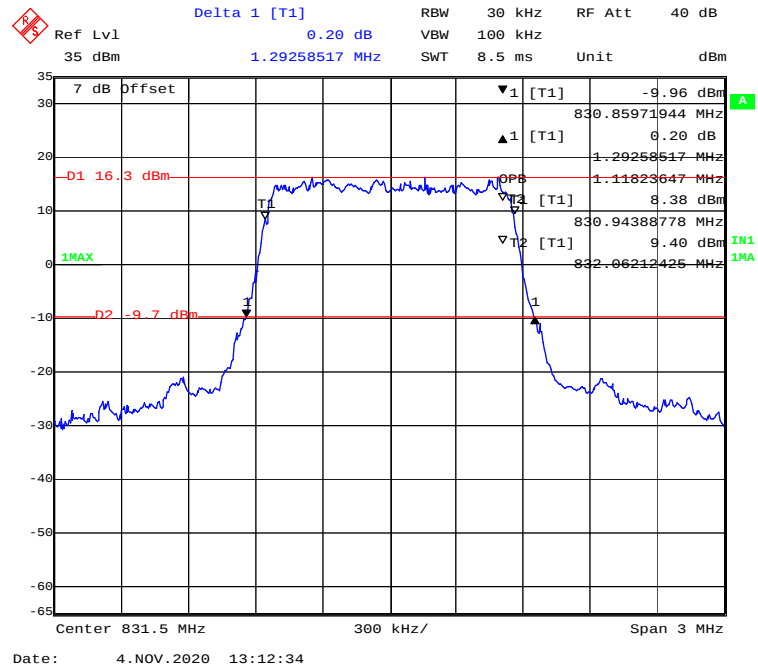
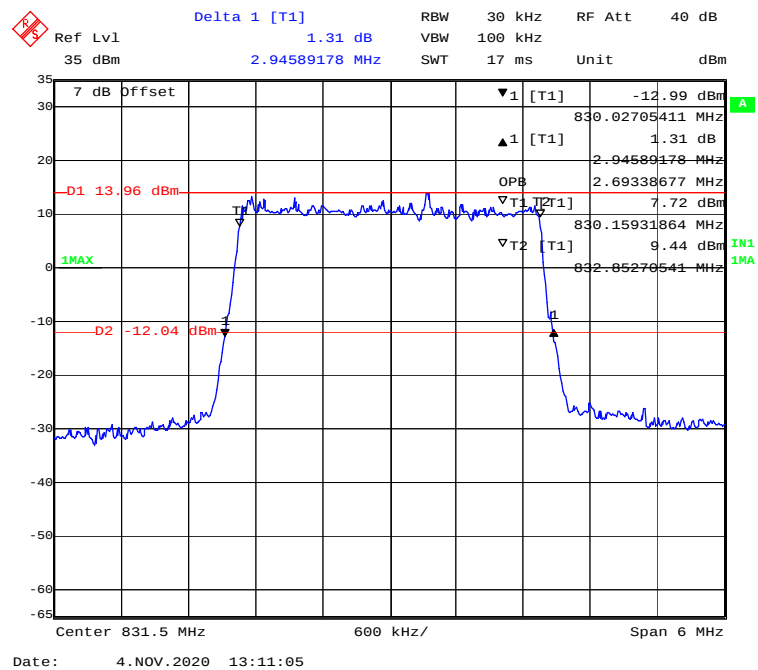


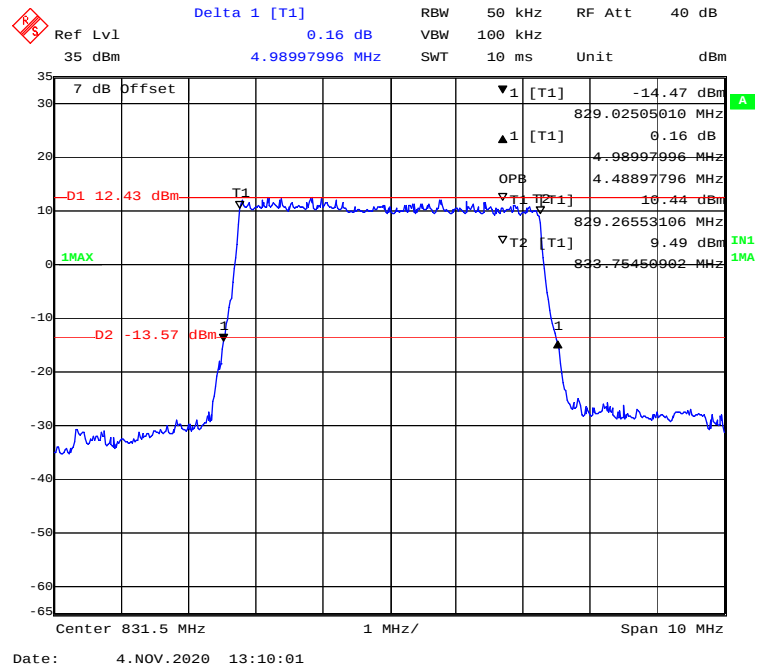
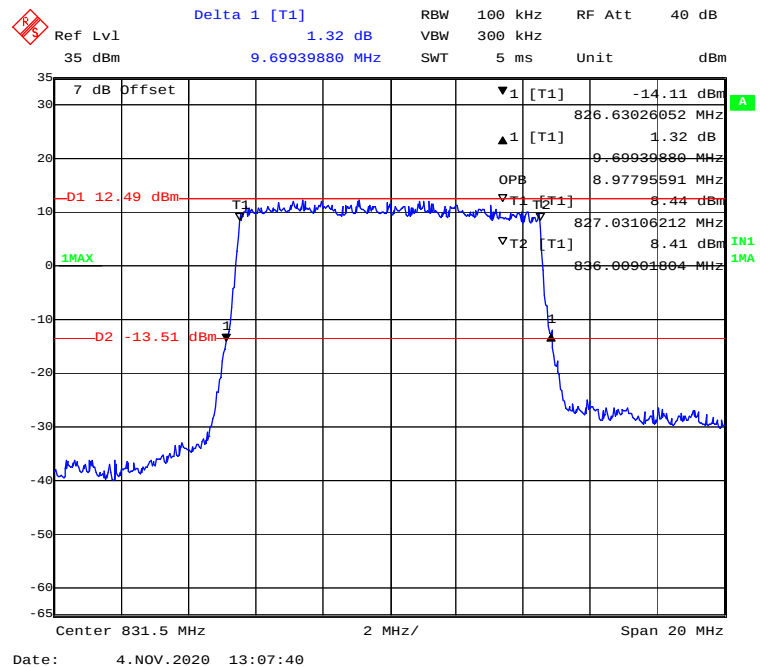
16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel

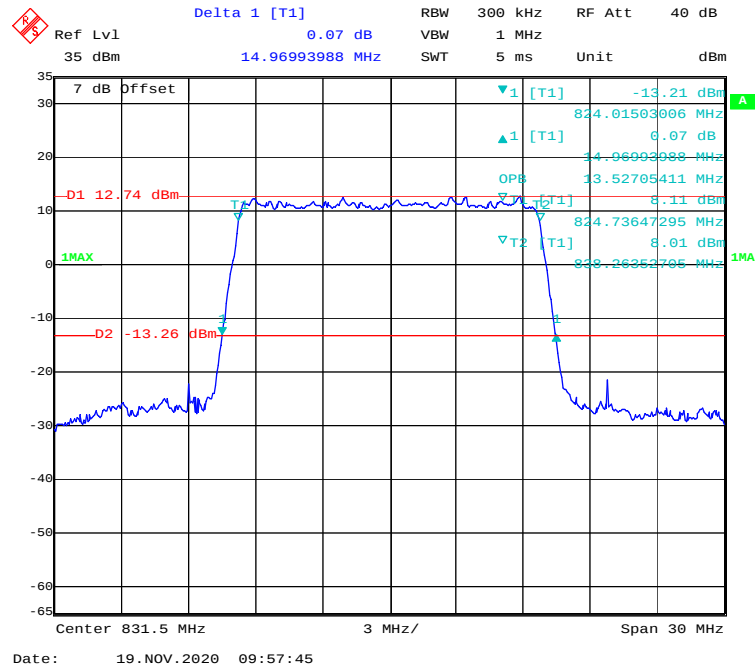
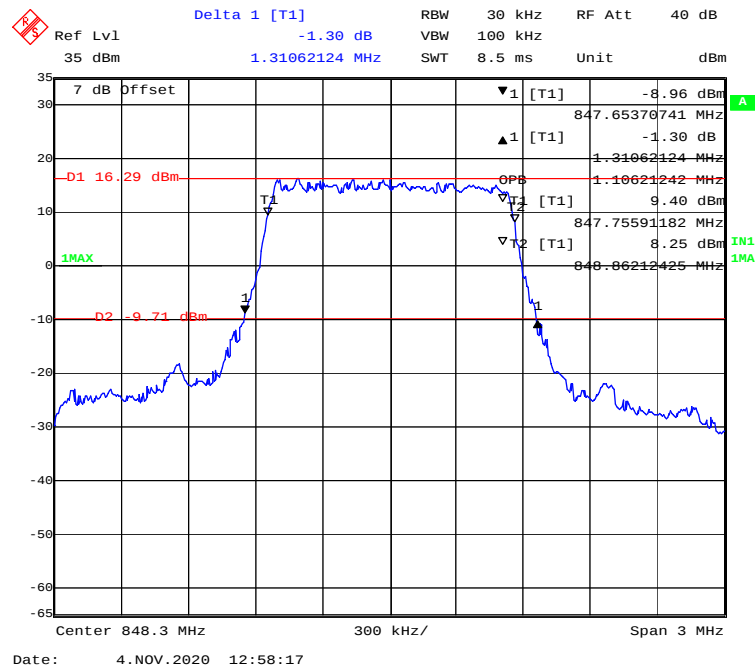


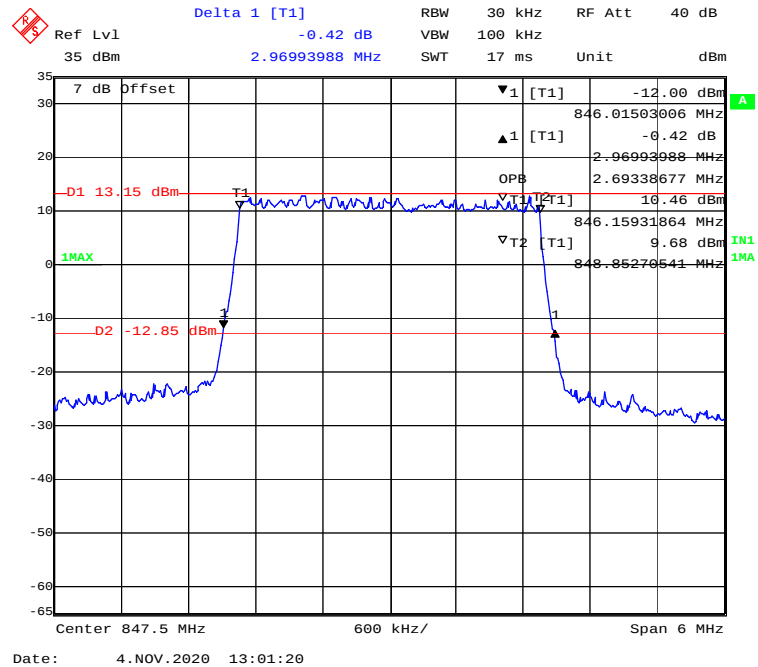
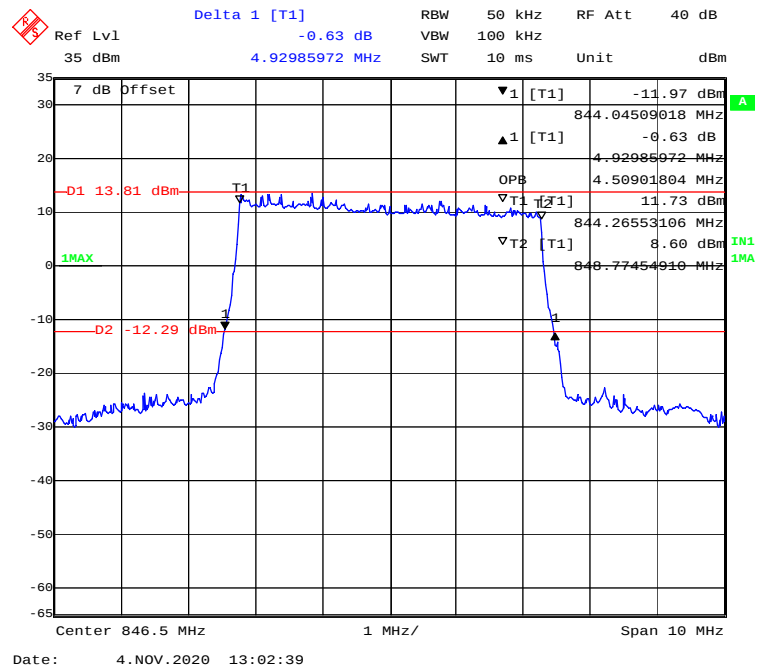
16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

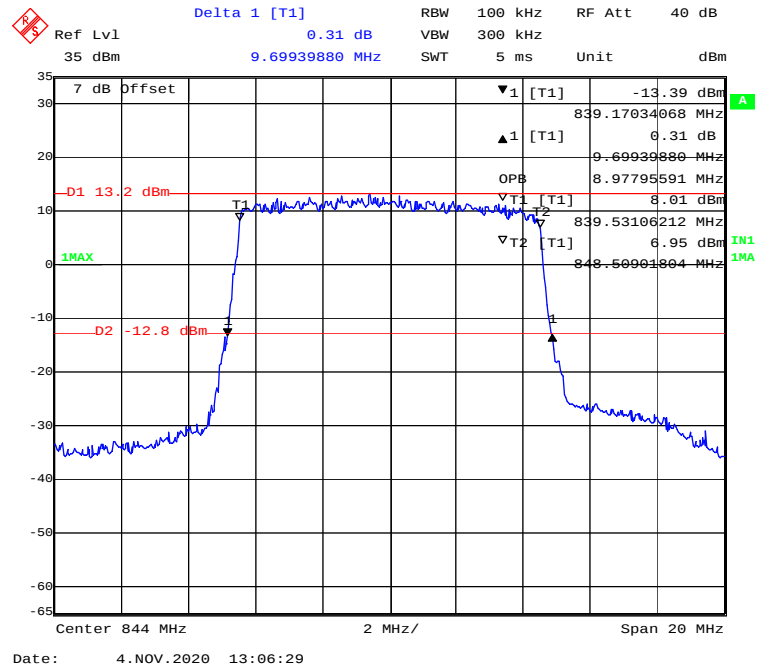
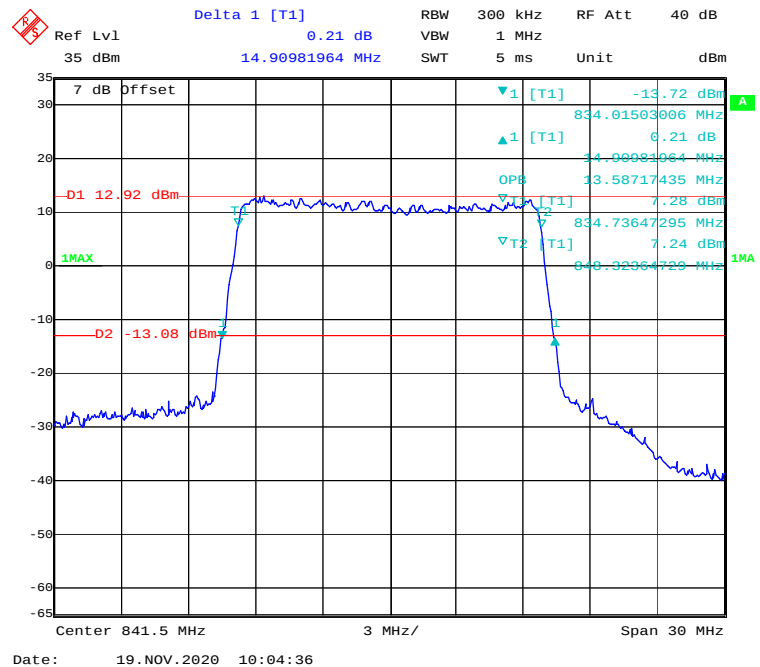
16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Low channel**

16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**

16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, Middle channel**16-QAM (1.4 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (3 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (5 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

16-QAM (10 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**16-QAM (15 MHz) - 99% Occupied & 26 dB Emissions Bandwidth, High channel**

FCC § 2.1051; § 22.917 (a); § 24.238 (a); §27.53(m) (h) ; § 90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS**Applicable Standards**

FCC §2.1051, §22.917(a) , §24.238(a) , §90.691(a) and §27.53(m) (h)..

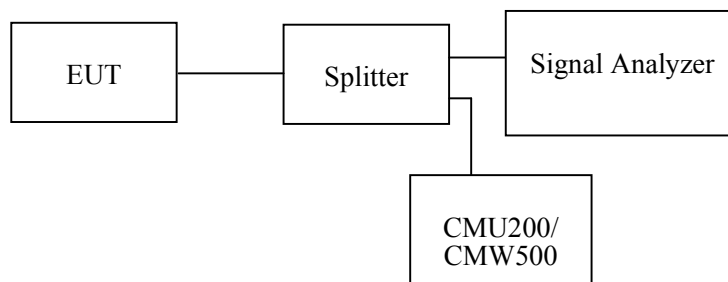
The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

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

According to §27.53(m),for mobile digital stations, any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz & 1MHz for above 1GHz. sufficient scans were taken to show any out of band emissions up to 10th harmonic.

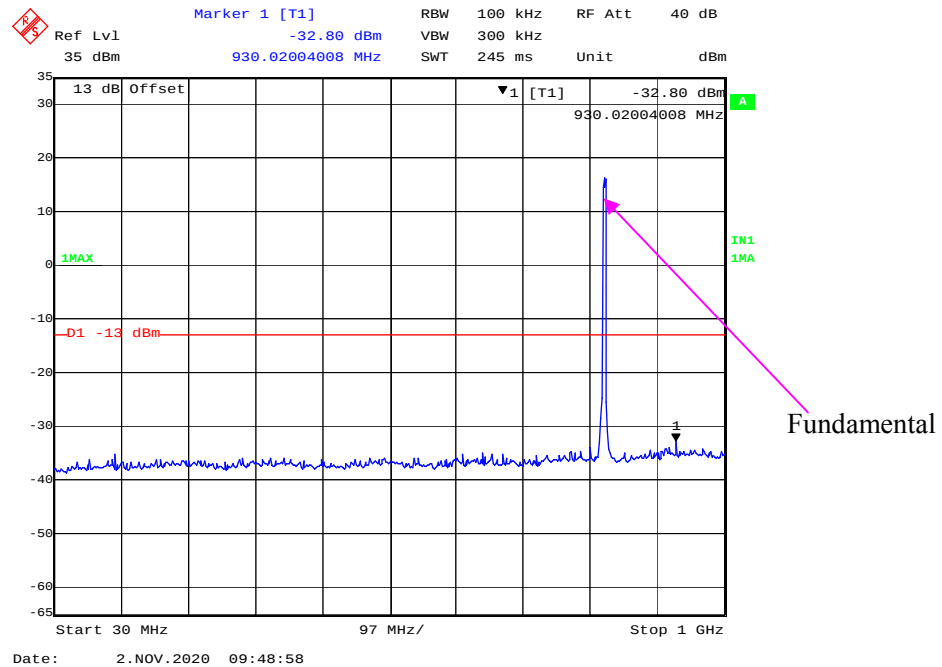
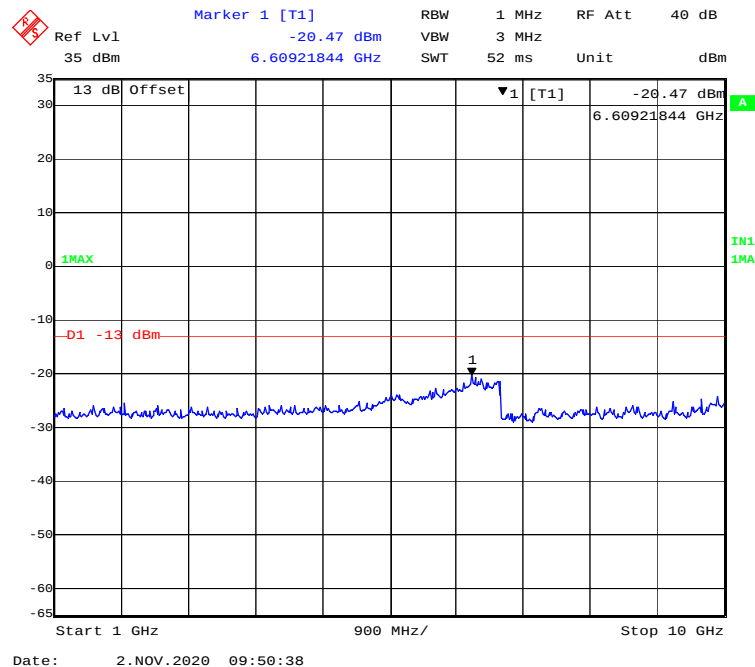
**Test Data****Environmental Conditions**

Temperature:	23.9~25.5 °C
Relative Humidity:	49~53 %
ATM Pressure:	100.7~101.9 kPa

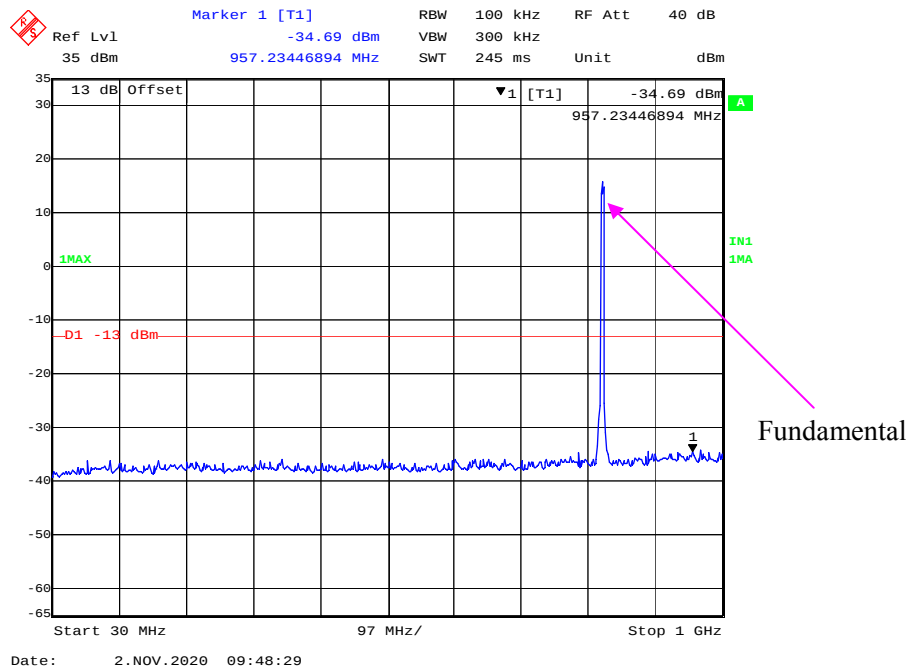
The testing was performed by Jack Jiao from 2020-11-02 to 2020-11-30.

EUT operation mode: Transmitting

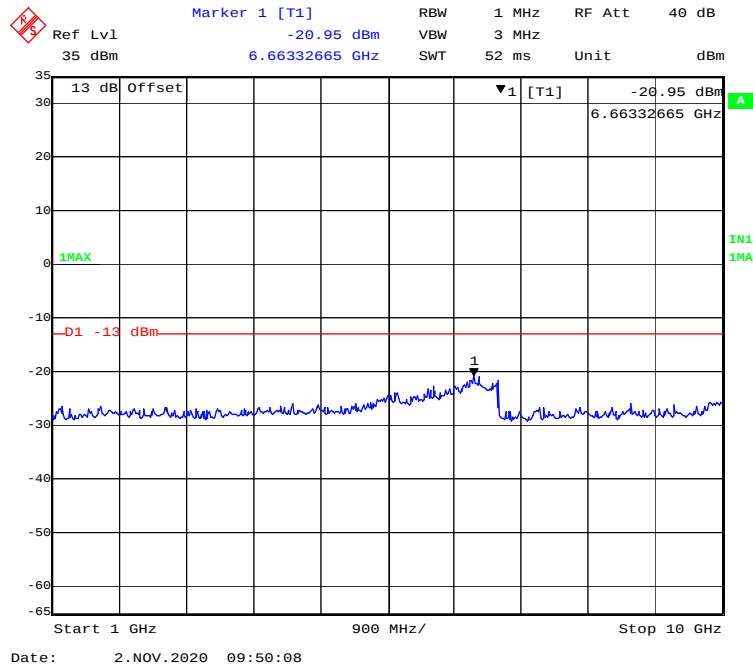
Test Result: Compliance.

WCDMA Band V:**30 MHz – 1GHz WCDMA (Rel 99) Mode, Low channel****1 GHz – 10 GHz WCDMA (Rel 99) Mode, Low channel**

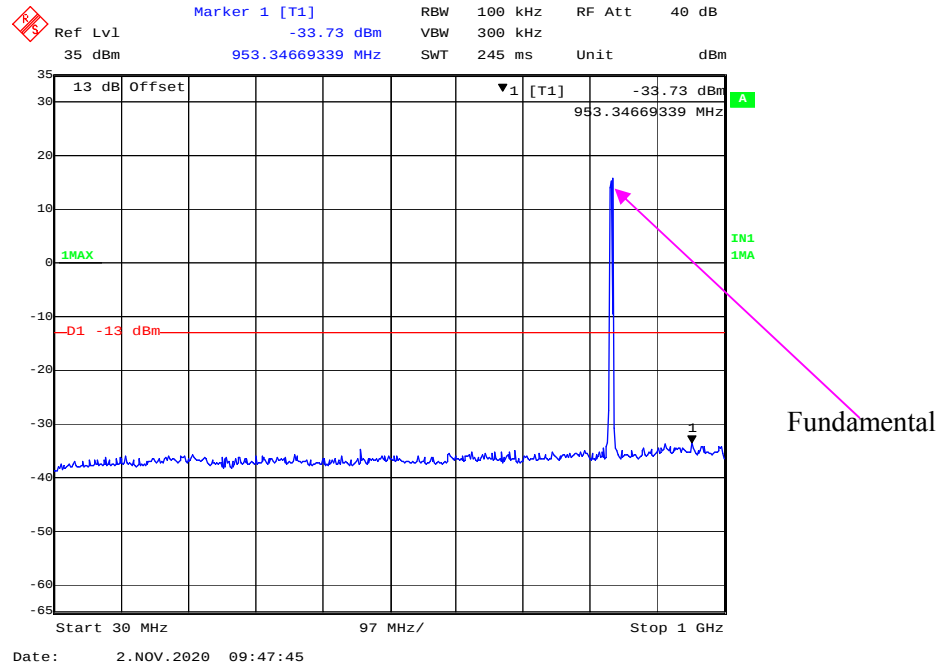
30 MHz – 1GHz WCDMA (HSDPA) Mode, Low channel



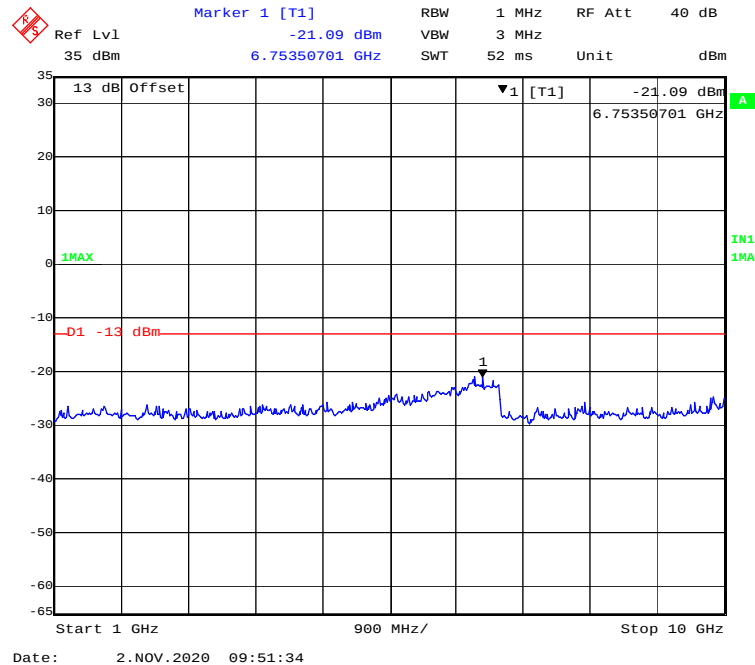
1 GHz – 10 GHz WCDMA (HSDPA) Mode, Low channel

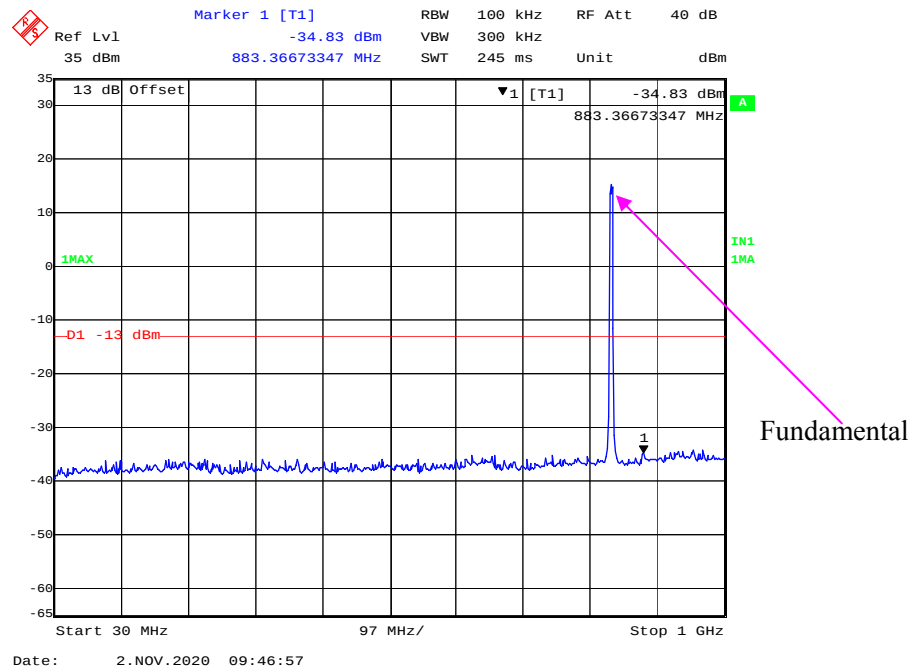
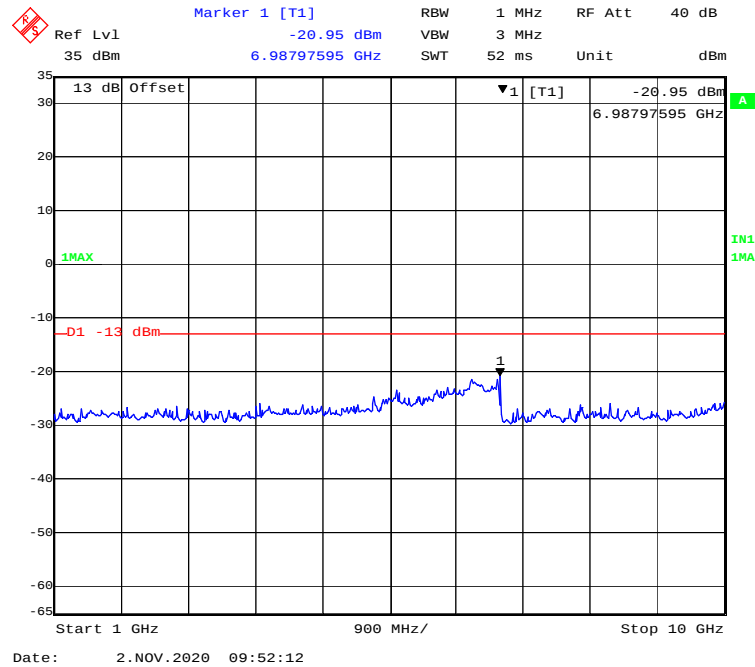


30 MHz – 1GHz WCDMA (Rel 99) Mode, Middle channel

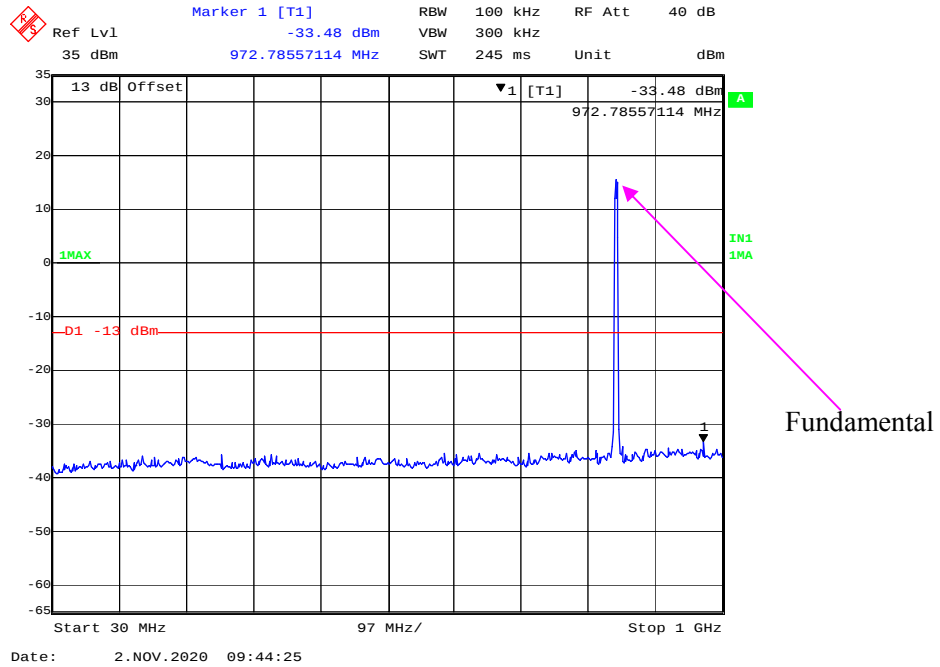


1 GHz – 10 GHz WCDMA (Rel 99) Mode, Middle channel

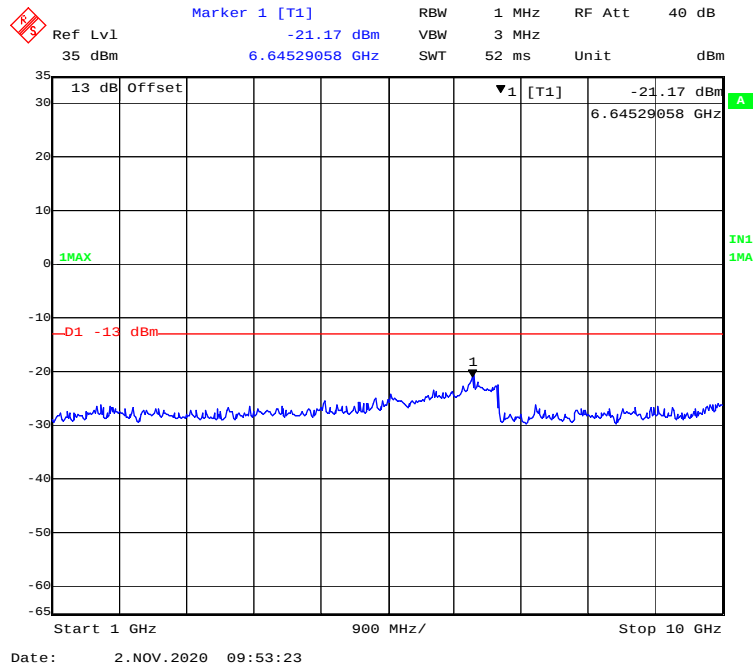


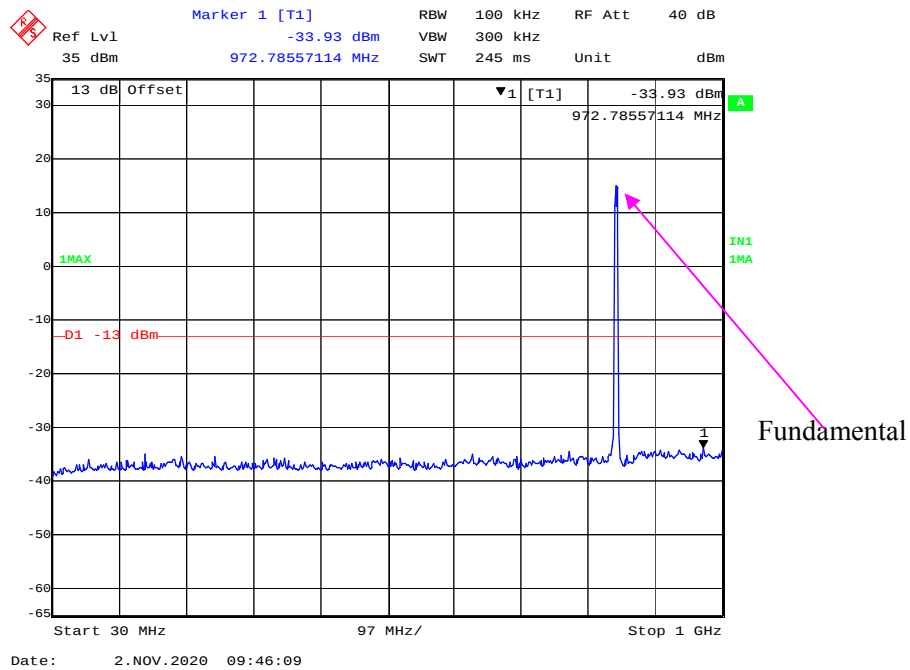
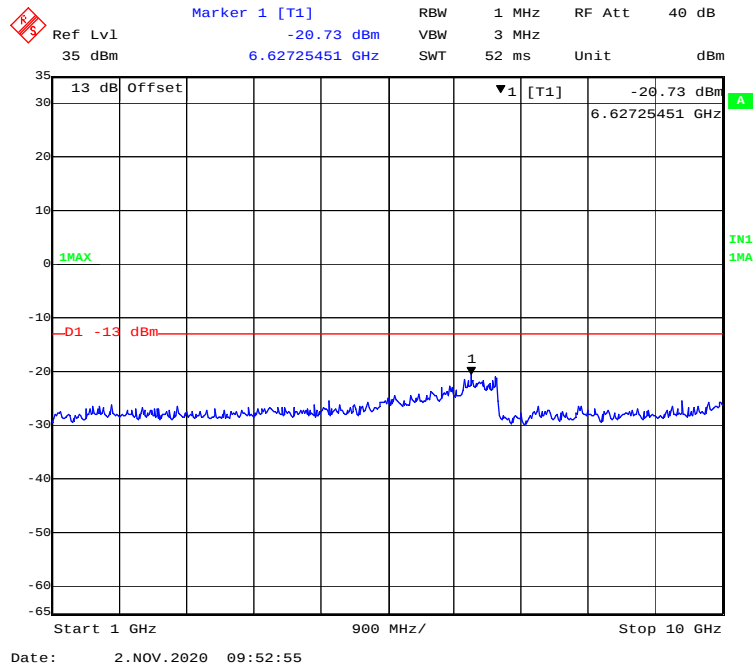
30 MHz – 1GHz WCDMA (HSDPA) Mode, Middle channel**1 GHz – 10 GHz WCDMA (HSDPA) Mode, Middle channel**

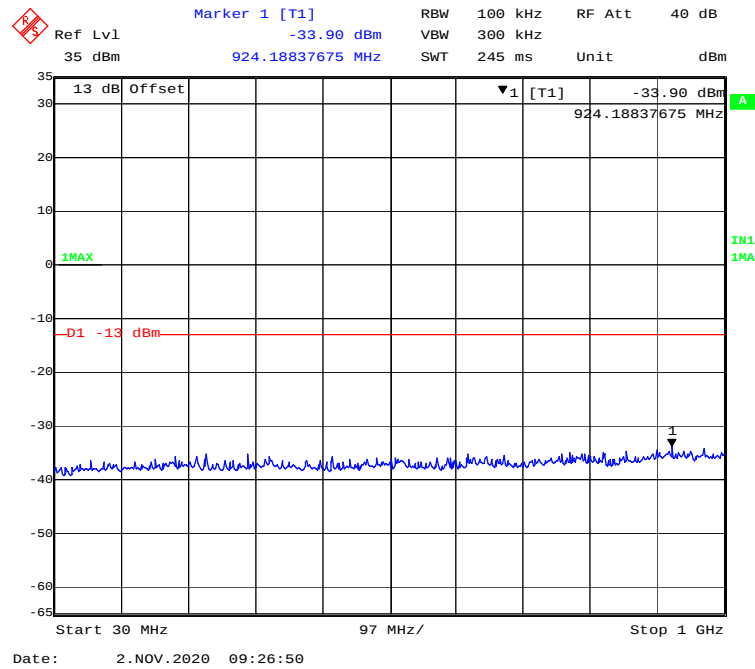
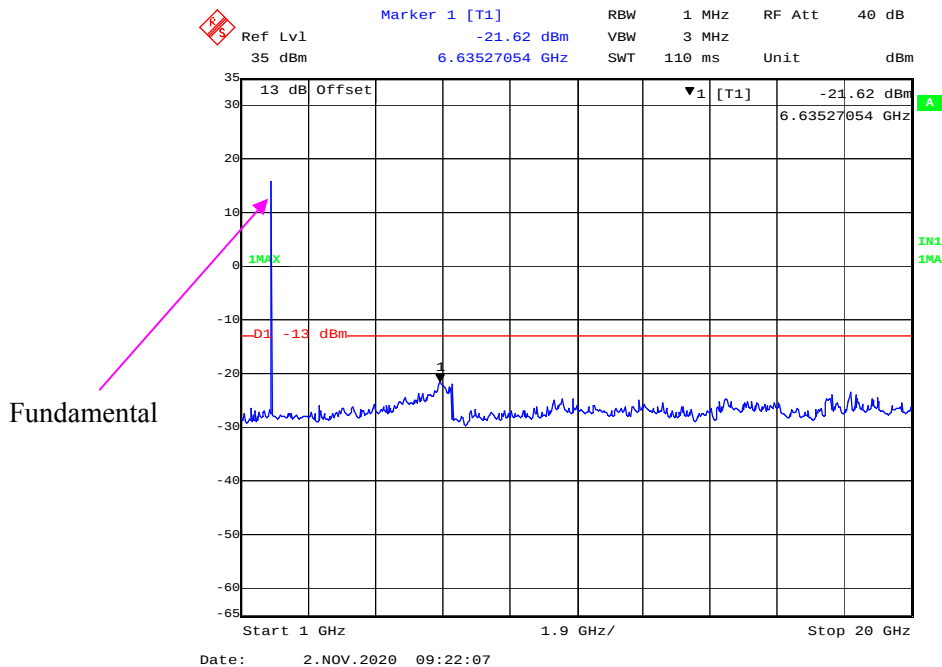
30 MHz – 1GHz WCDMA (Rel 99) Mode, High channel

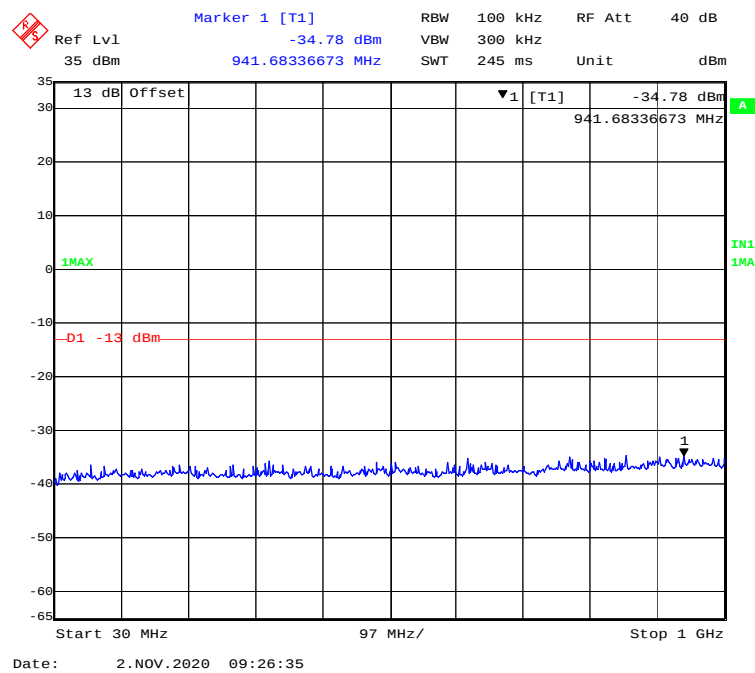
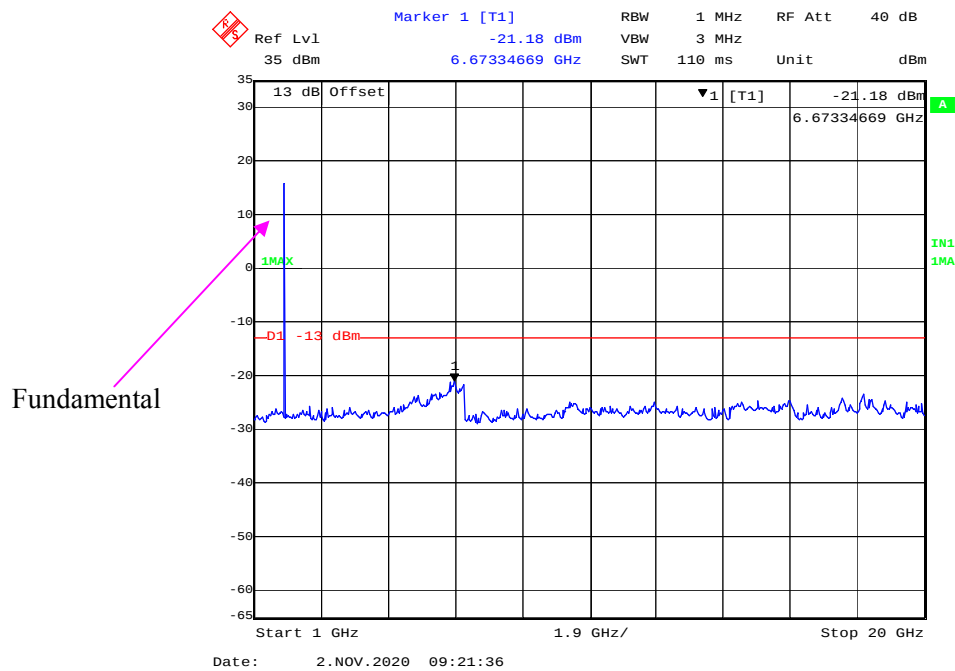


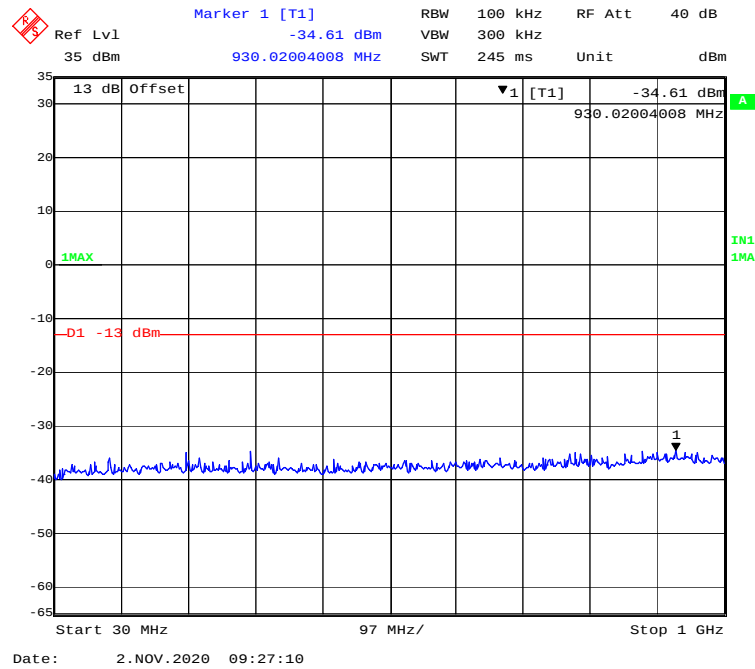
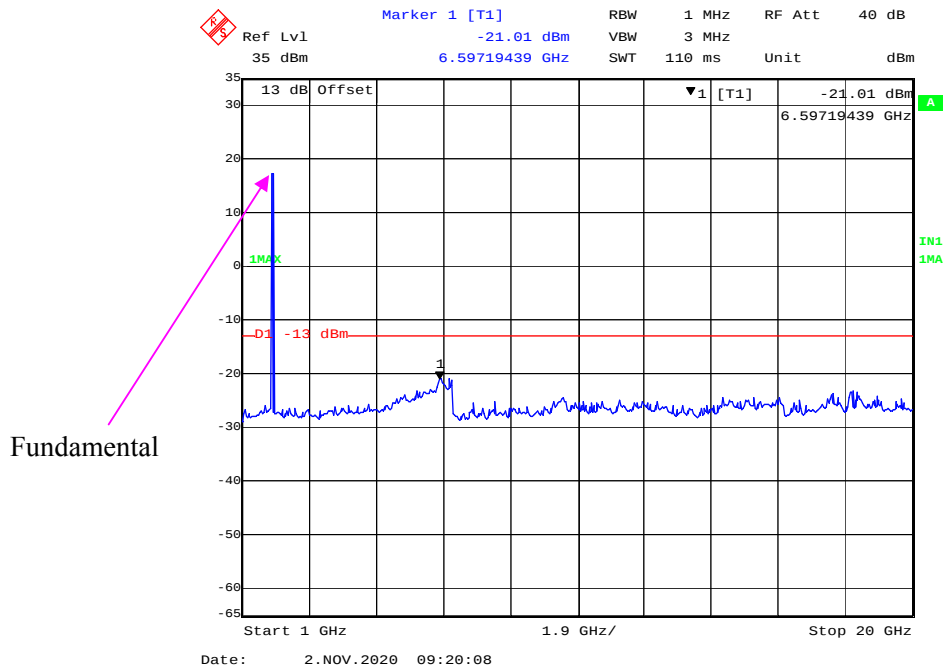
1 GHz – 10 GHz WCDMA (Rel 99) Mode, High channel



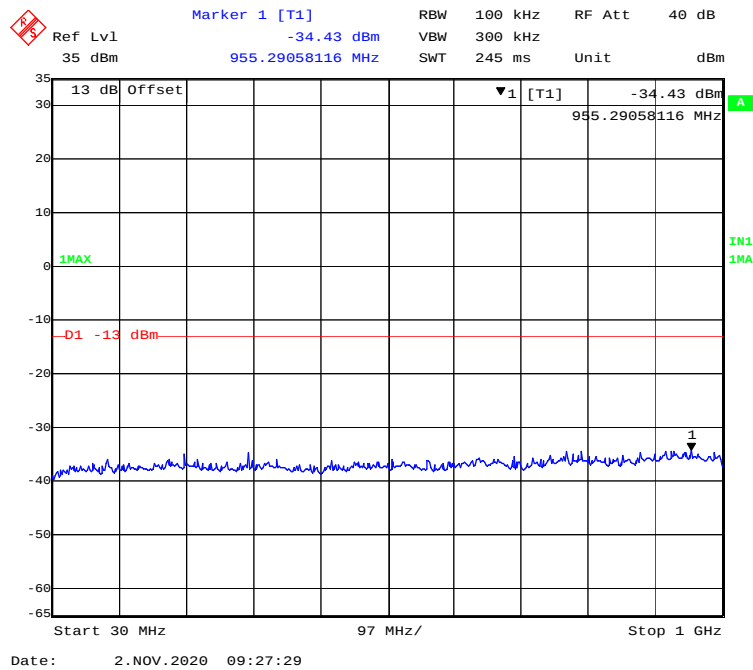
30 MHz – 1GHz WCDMA (HSDPA) Mode, High channel**1 GHz – 10 GHz WCDMA (HSDPA) Mode, High channel**

WCDMA Band II:**30 MHz – 1GHz WCDMA (Rel 99) Mode , Low channel****1 GHz – 20 GHz WCDMA (Rel 99) Mode , Low channel**

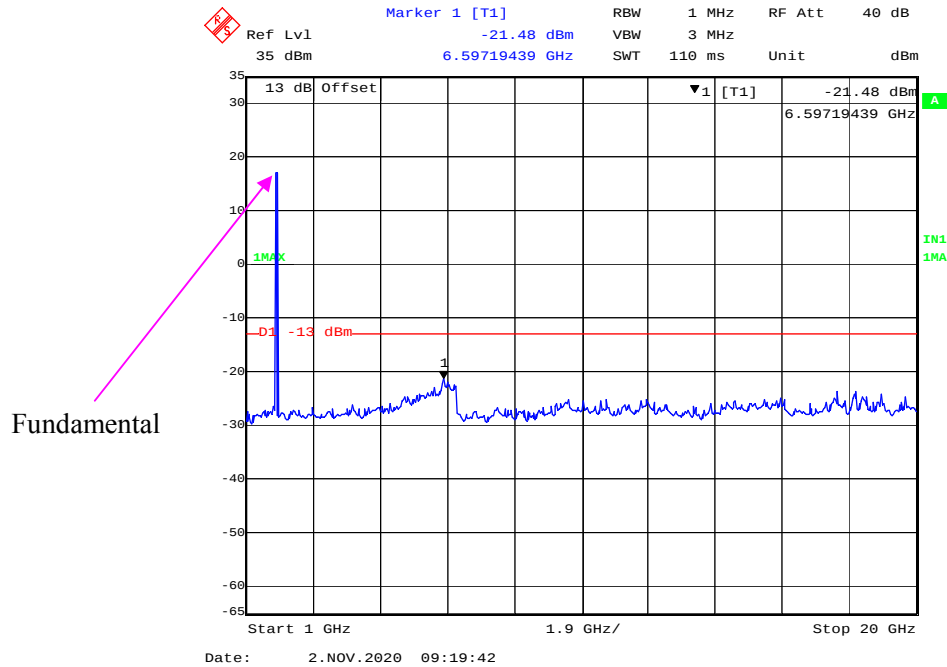
30 MHz – 1GHz WCDMA (HSDPA) Mode , Low channel**1 GHz – 20 GHz WCDMA (HSDPA) Mode , Low channel**

30 MHz – 1GHz WCDMA (Rel 99) Mode , Middle channel**1 GHz – 20 GHz WCDMA (Rel 99) Mode , Middle channel**

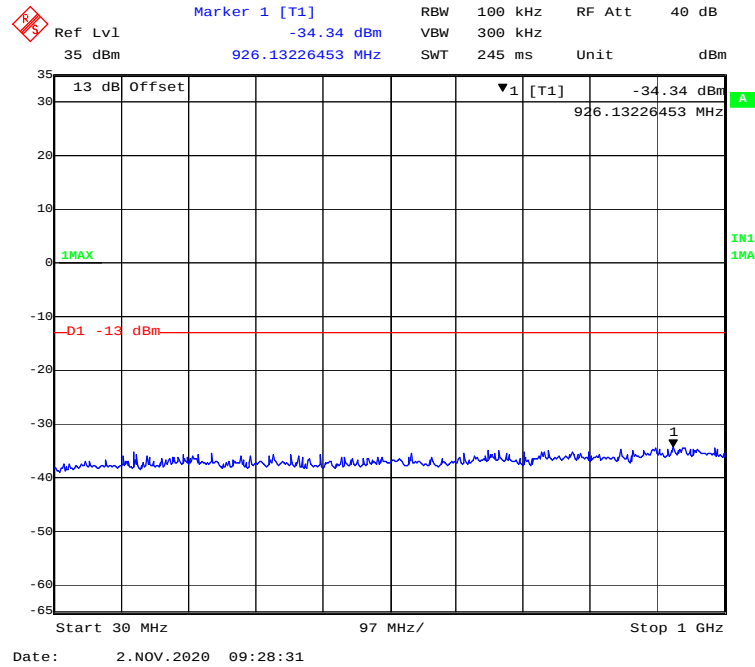
30 MHz – 1GHz WCDMA (HSDPA) Mode , Middle channel



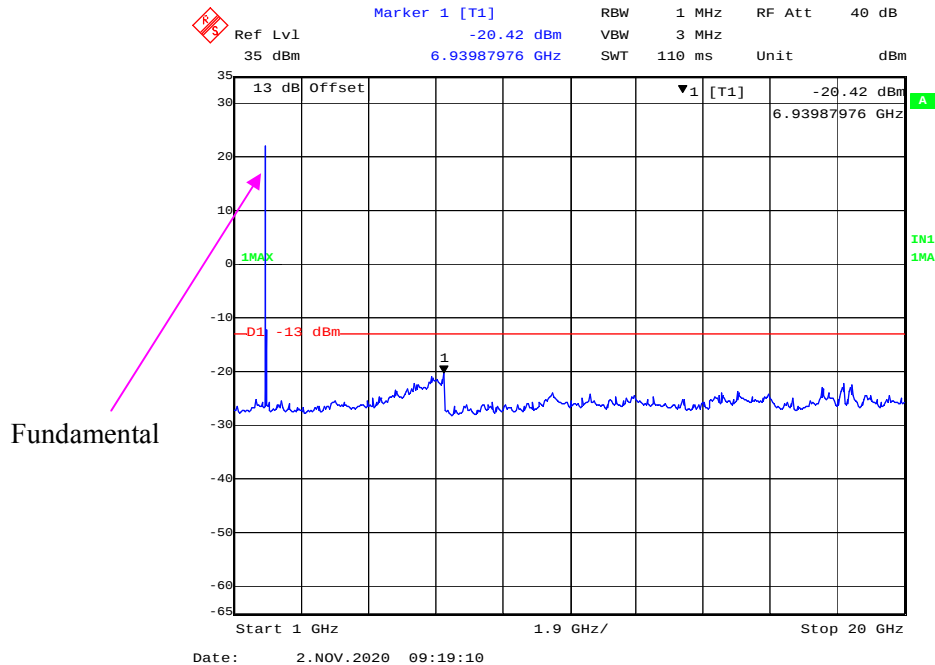
1 GHz – 20 GHz WCDMA (HSDPA) Mode , Middle channel



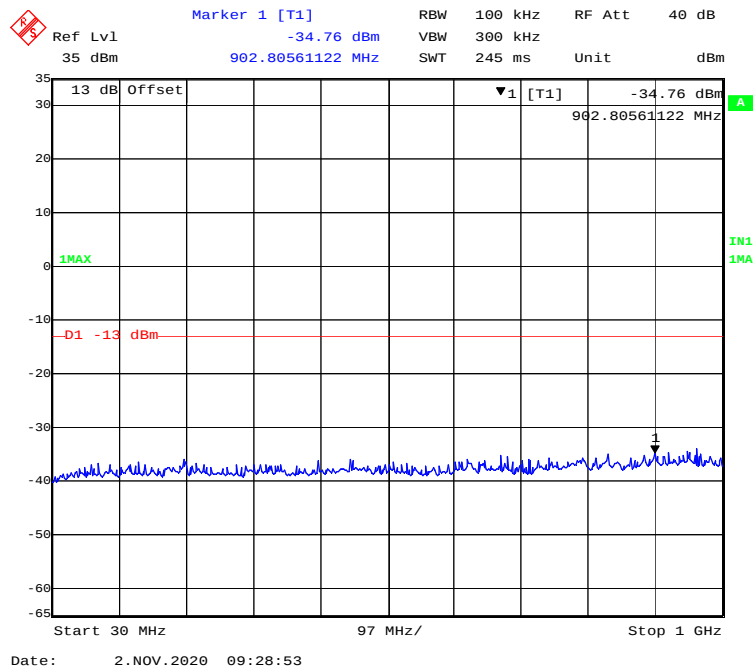
30 MHz – 1GHz WCDMA (Rel 99) Mode , High channel



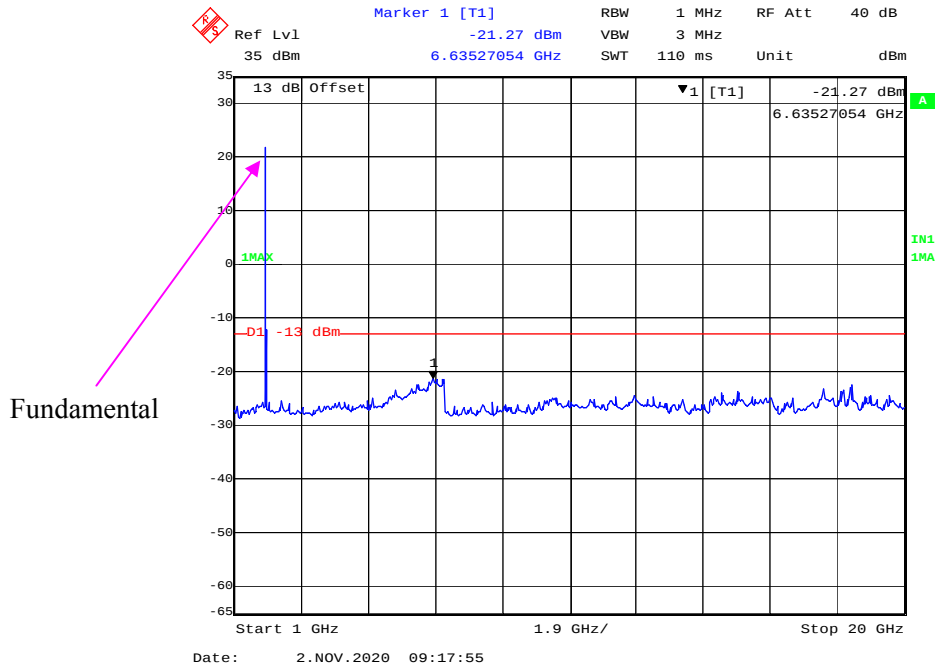
1 GHz – 20 GHz WCDMA (Rel 99) Mode , High channel



30 MHz – 1GHz WCDMA (HSDPA) Mode , High channel

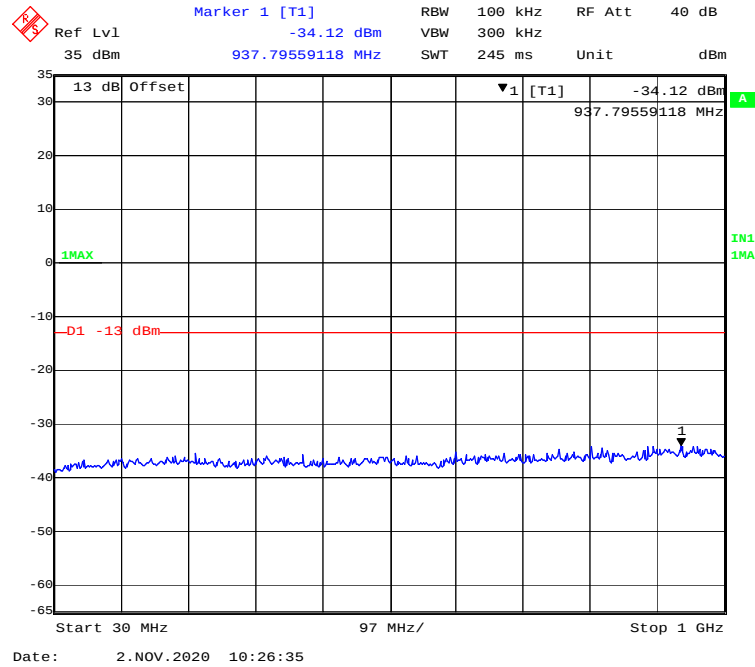


1 GHz – 20 GHz WCDMA (HSDPA) Mode , High channel

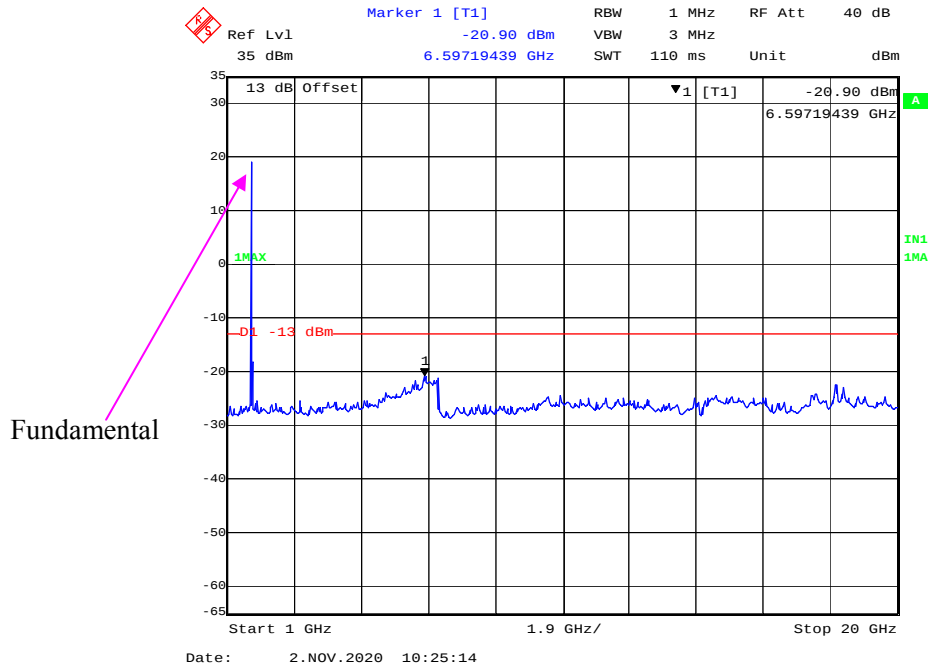


WCDMA Band IV:

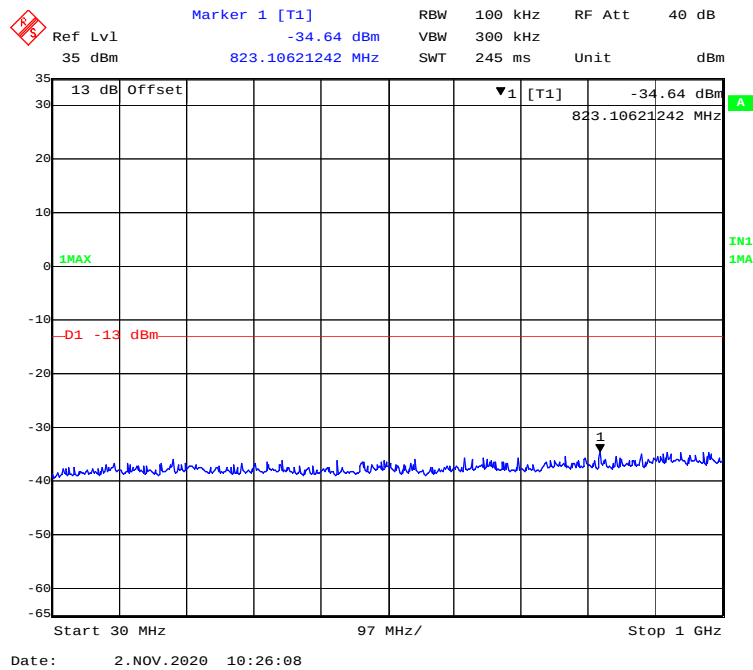
30 MHz – 1GHz WCDMA (Rel 99) Mode, Low channel



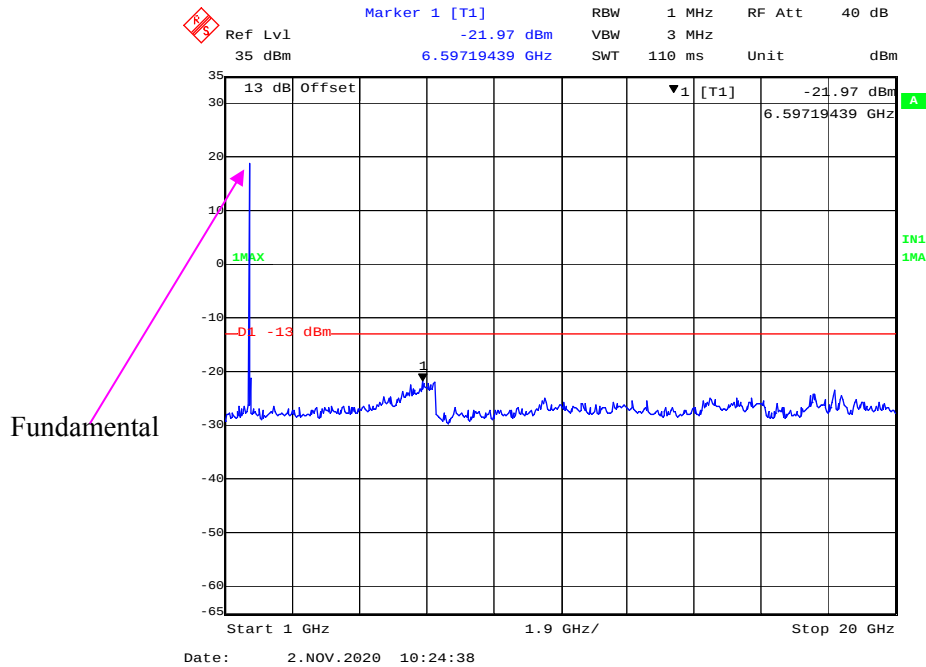
1 GHz – 20 GHz WCDMA (Rel 99) Mode, Low channel



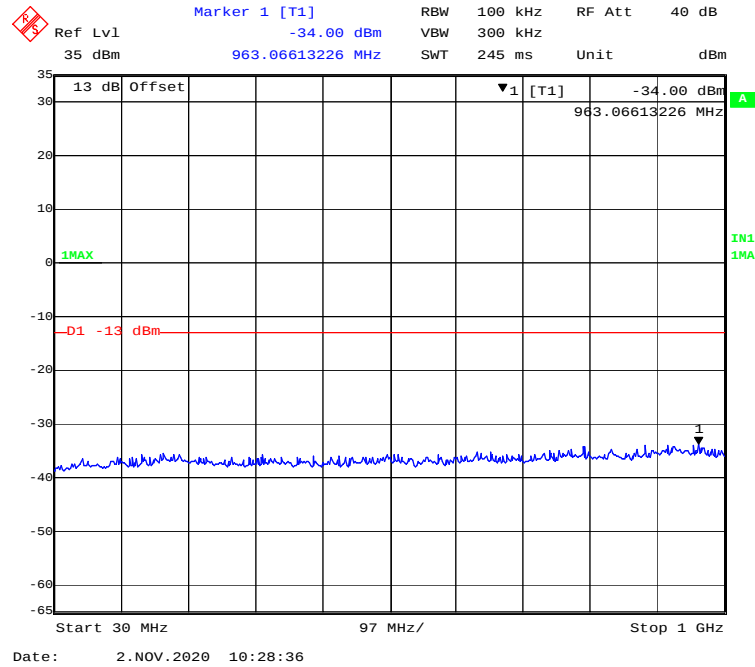
30 MHz – 1GHz WCDMA (HSDPA) Mode, Low channel



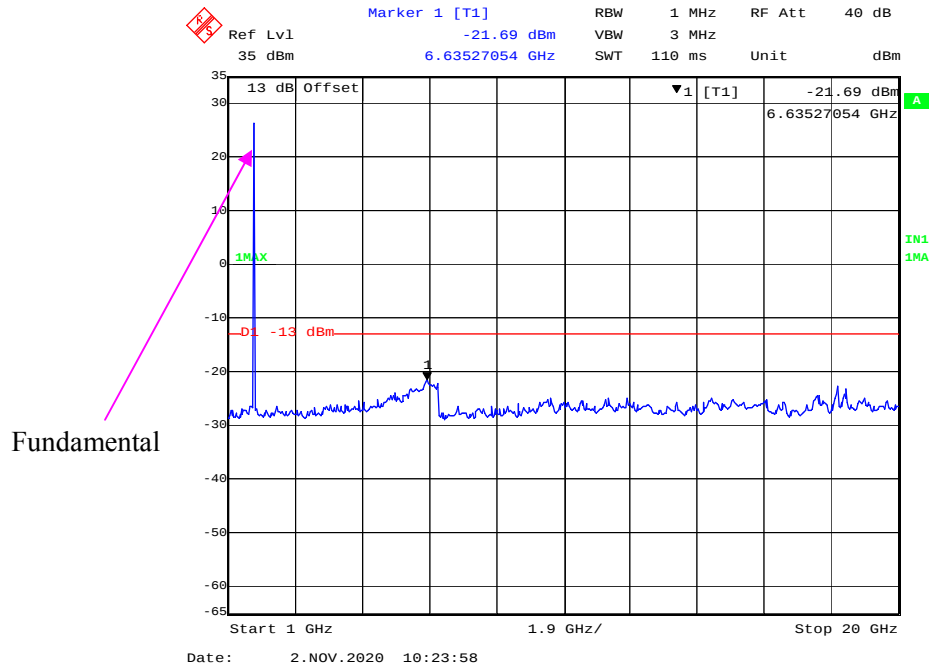
1 GHz – 20 GHz WCDMA (HSDPA) Mode, Low channel



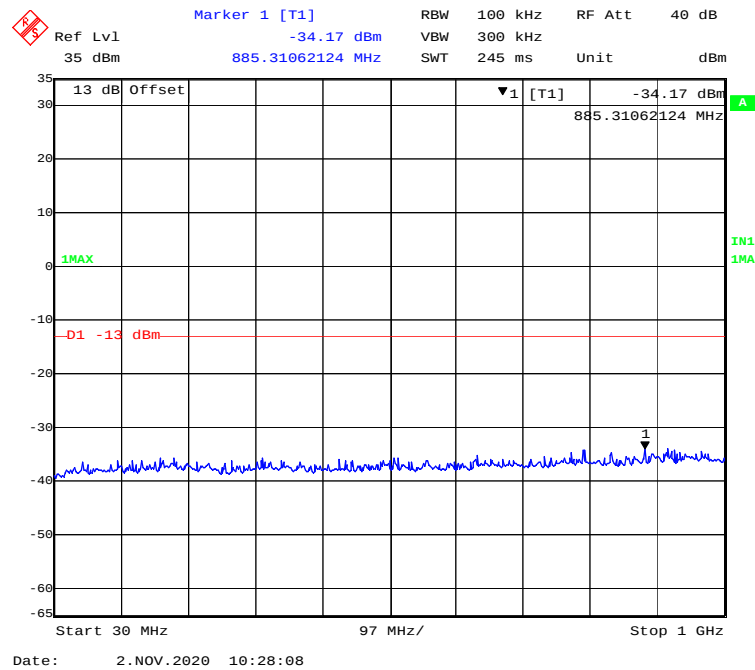
30 MHz – 1GHz WCDMA (Rel 99) Mode, Middle channel



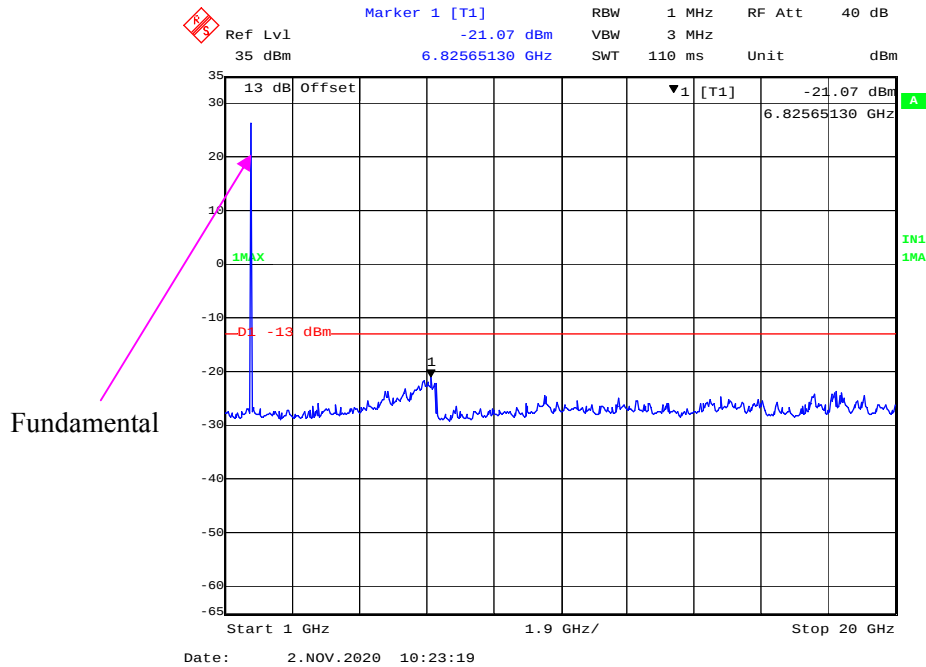
1 GHz – 20 GHz WCDMA (Rel 99) Mode, Middle channel



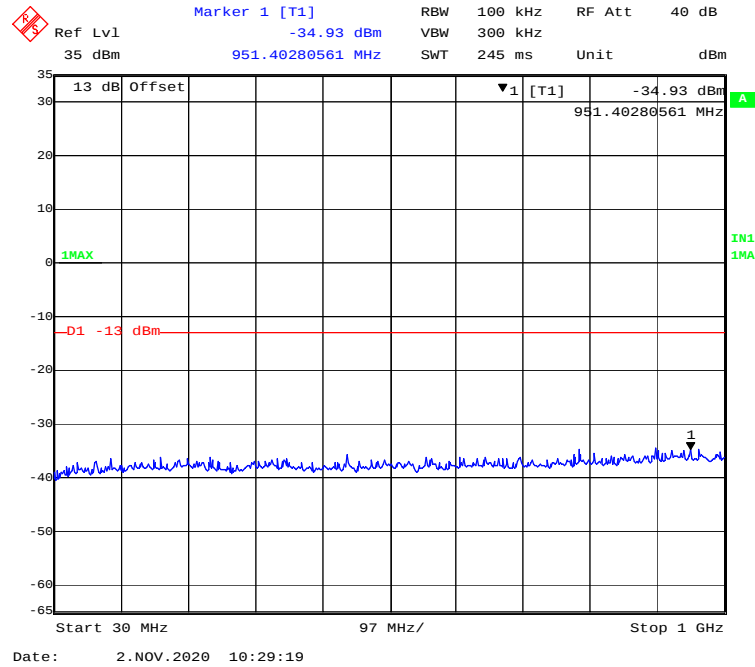
30 MHz – 1GHz WCDMA (HSDPA) Mode, Middle channel



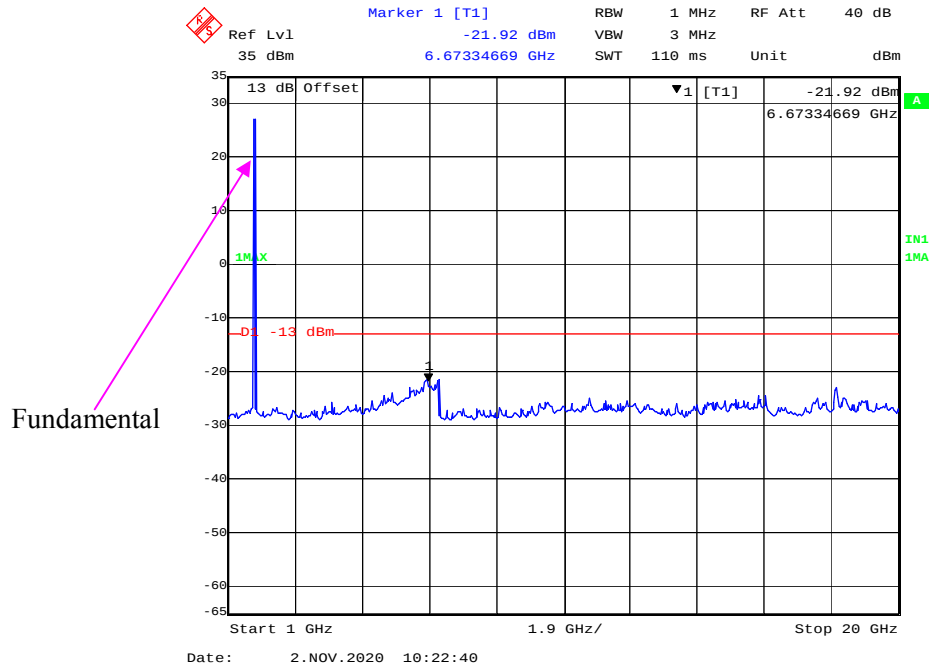
1 GHz – 20 GHz WCDMA (HSDPA) Mode, Middle channel



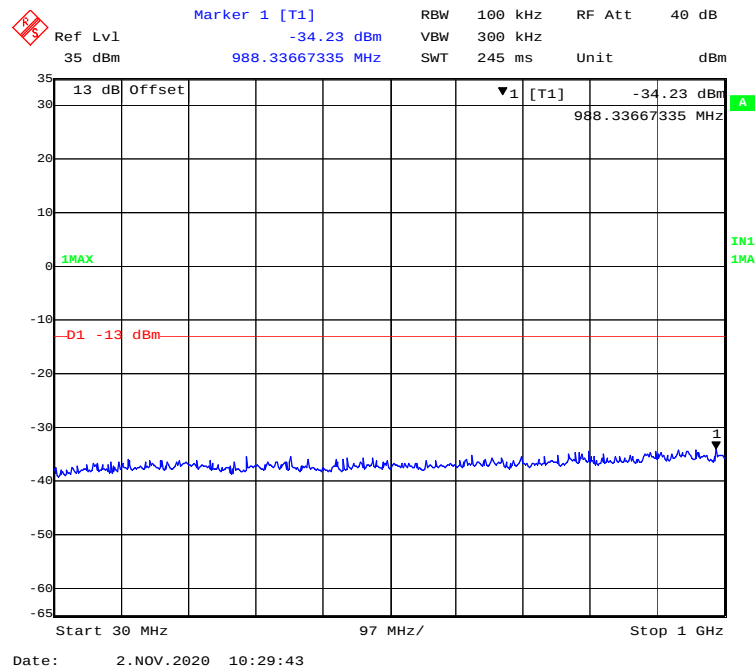
30 MHz – 1GHz WCDMA (Rel 99) Mode, High channel



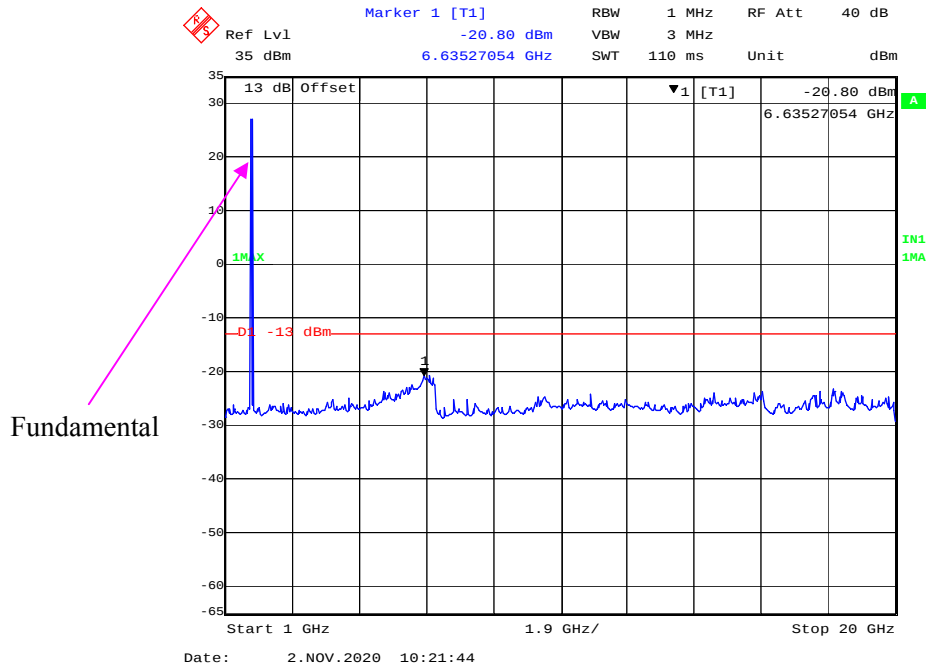
1 GHz – 20 GHz WCDMA (Rel 99) Mode, High channel

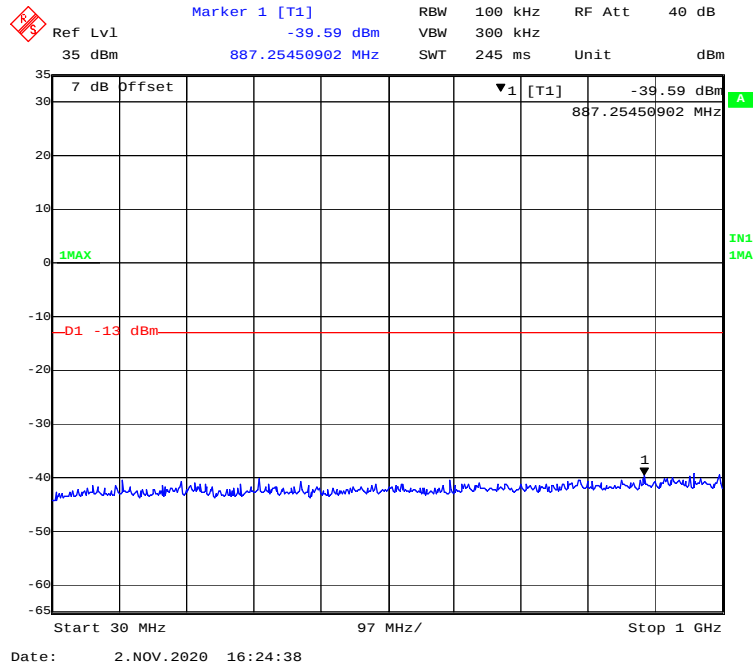
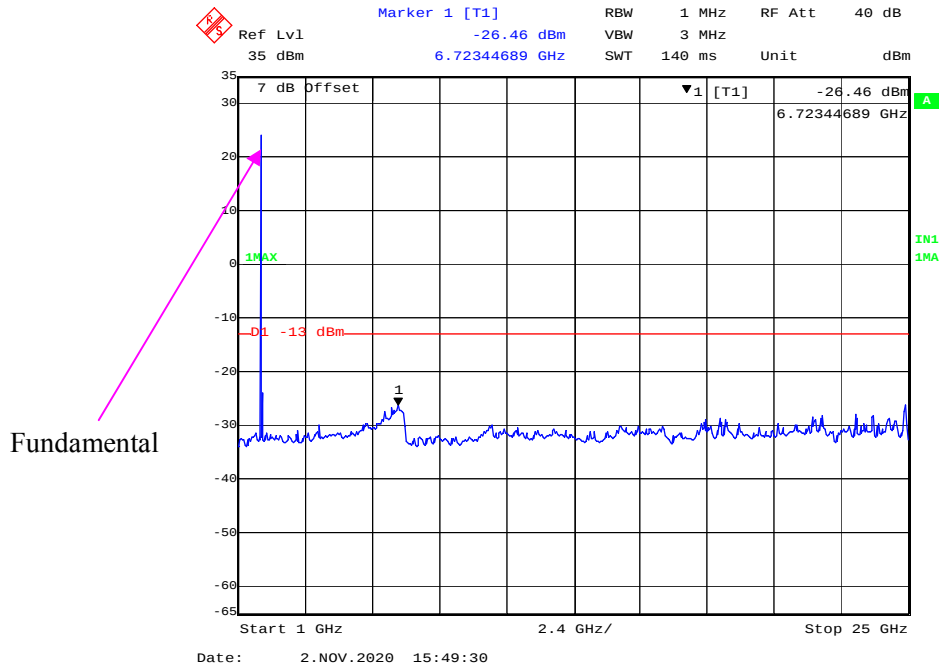


30 MHz – 1GHz WCDMA (HSDPA) Mode, High channel

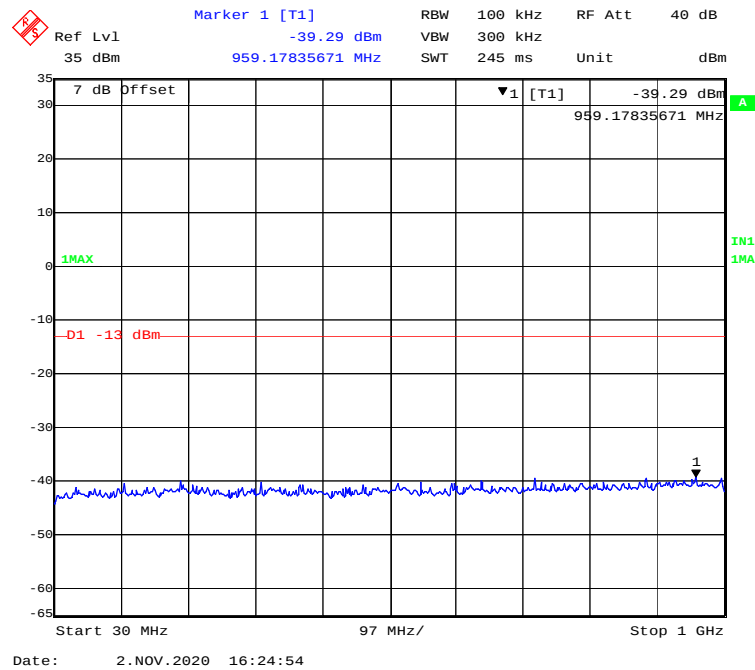


1 GHz – 20 GHz WCDMA (HSDPA) Mode, High channel

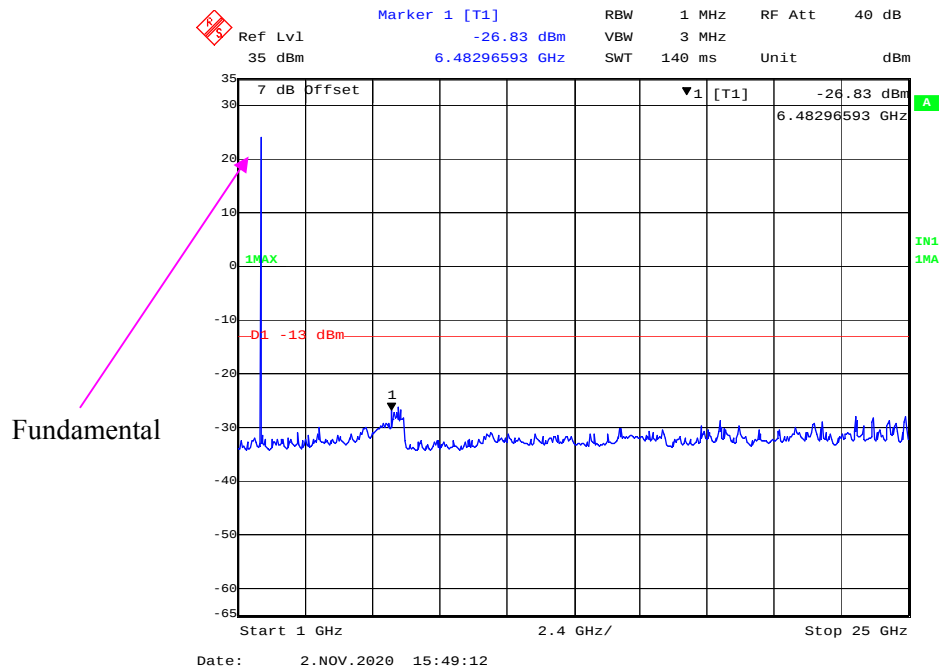


LTE Band 2:**30 MHz - 1 GHz (1.4 MHz, QPSK, Low Channel)****1 GHz – 25 GHz (1.4 MHz, QPSK, Low Channel)**

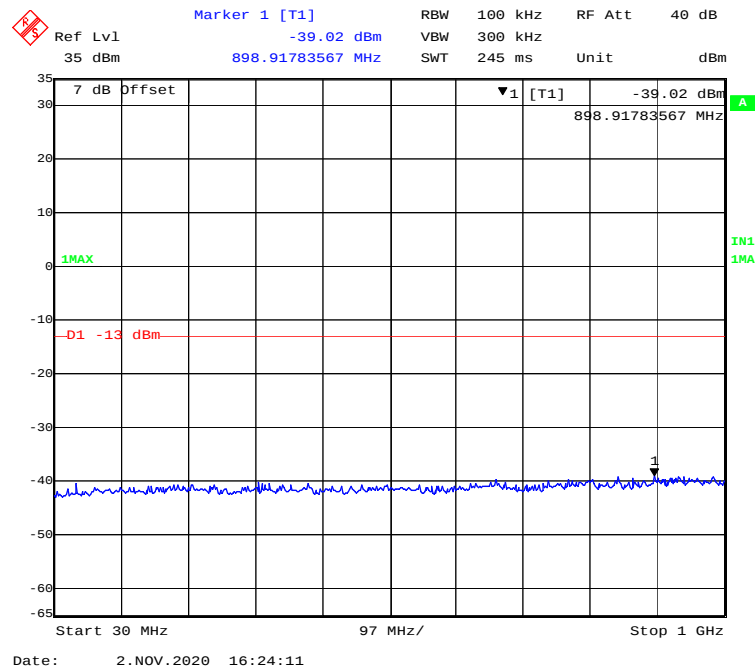
30 MHz - 1 GHz (1.4 MHz, 16-QAM, Low Channel)



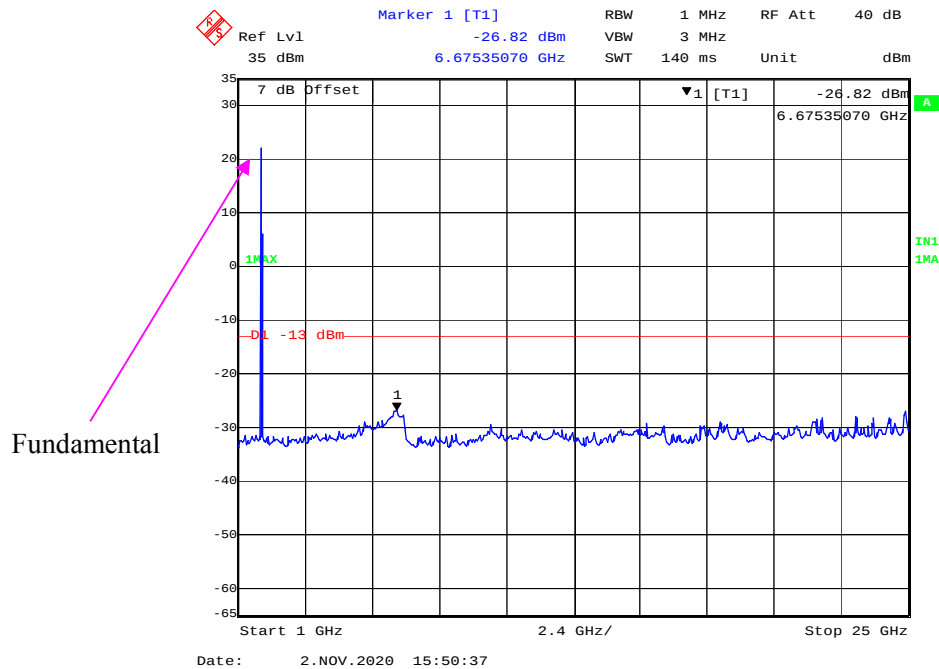
1 GHz – 25 GHz (1.4 MHz, 16-QAM, Low Channel)

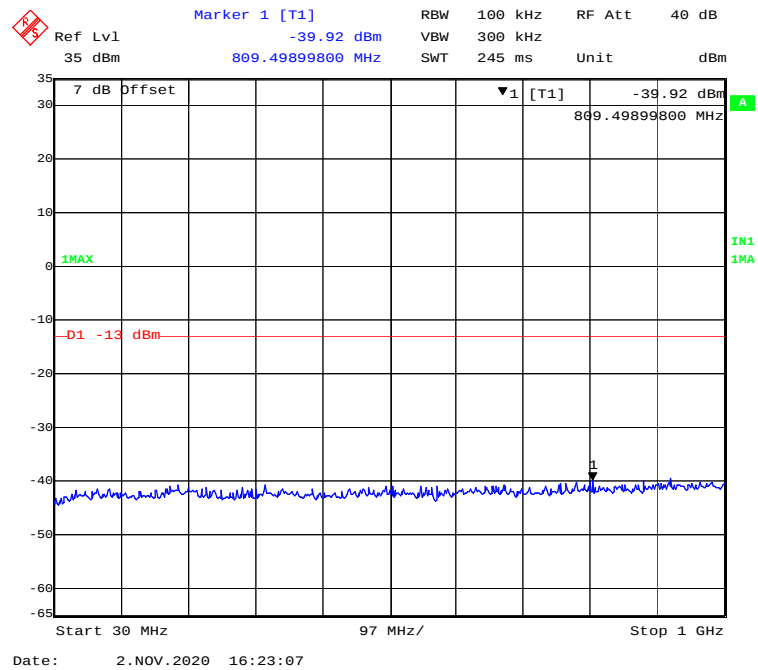
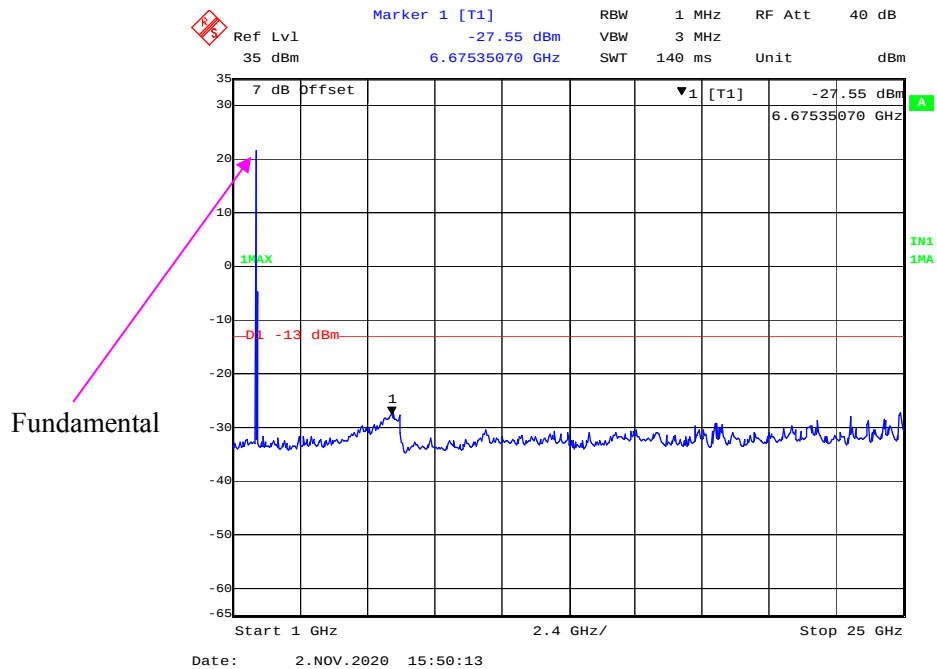


30 MHz - 1 GHz (3 MHz, QPSK, Low Channel)

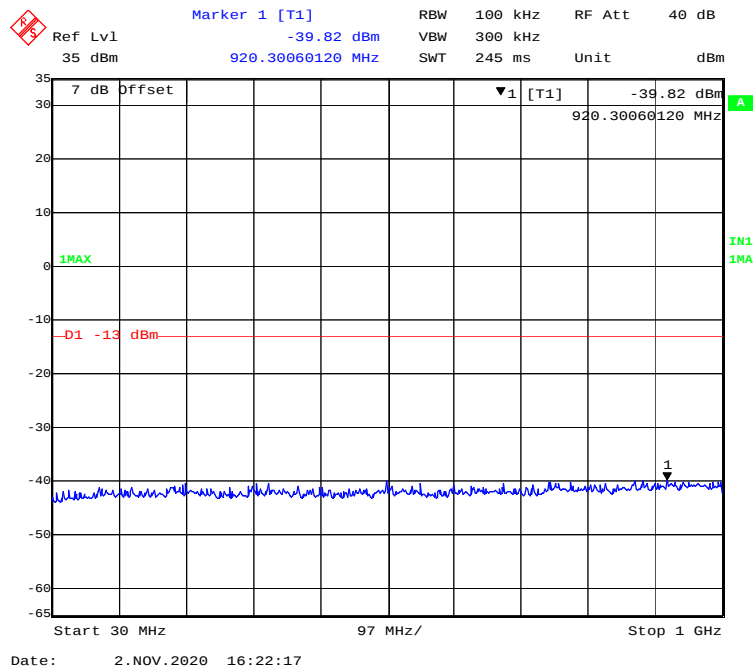


1 GHz – 25 GHz (3 MHz, QPSK, Low Channel)

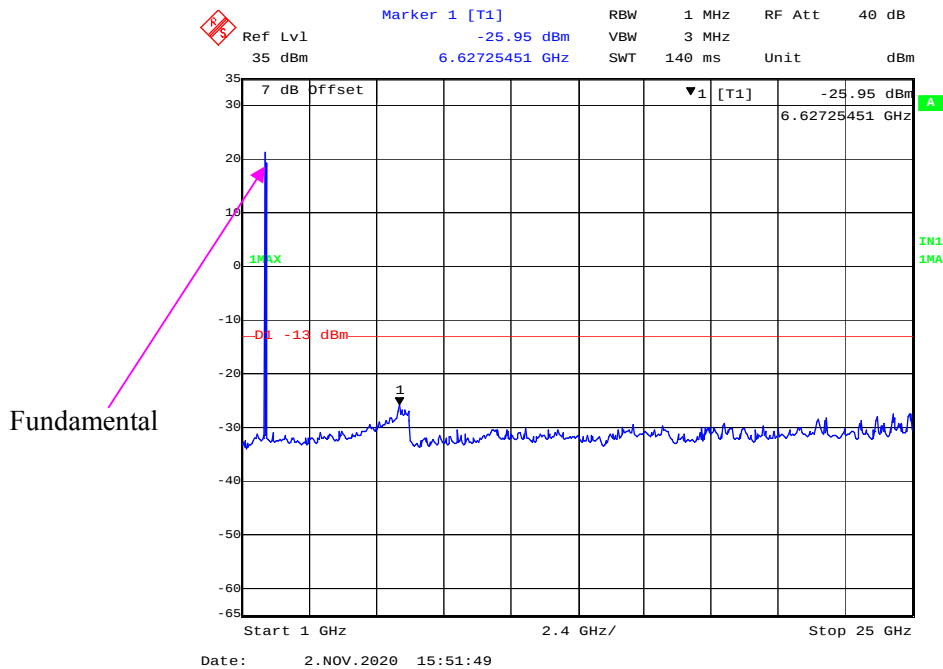


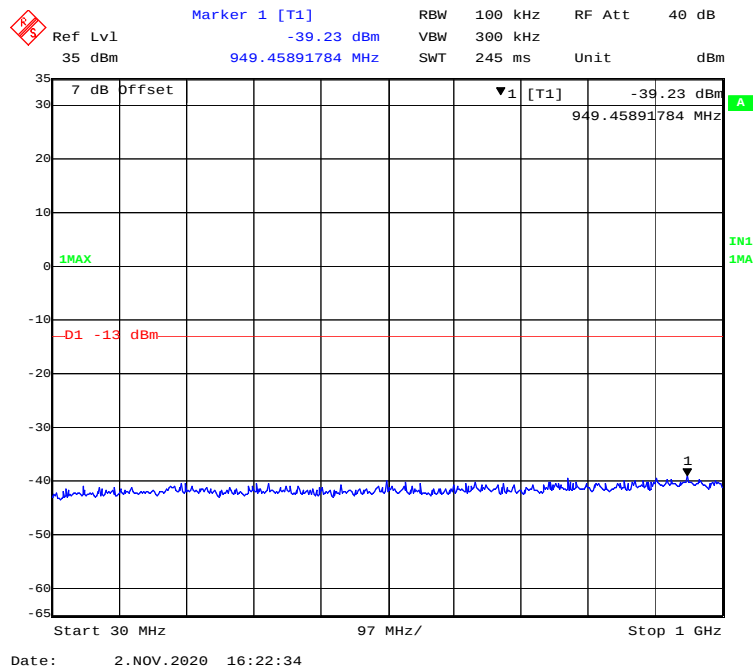
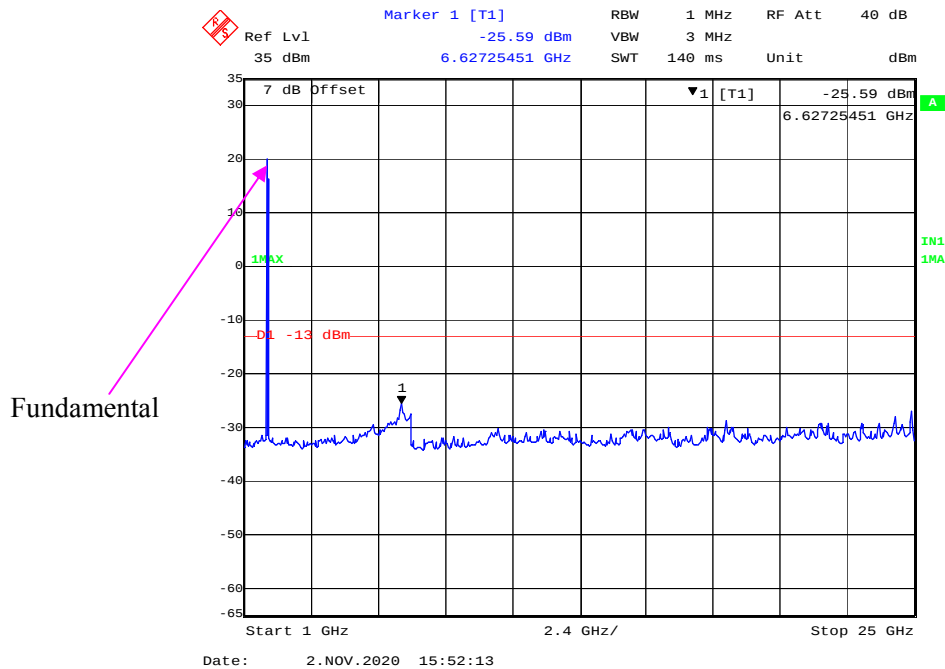
30 MHz - 1 GHz (3 MHz, 16-QAM, Low Channel)**1 GHz – 25 GHz (3 MHz, 16-QAM, Low Channel)**

30 MHz - 1 GHz (5 MHz, QPSK, Low Channel)

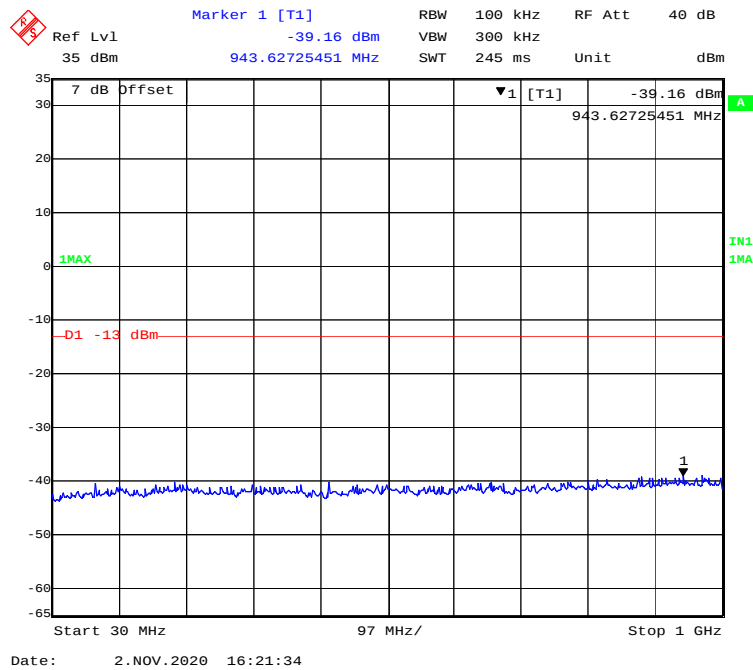


1 GHz – 25 GHz (5 MHz, QPSK, Low Channel)

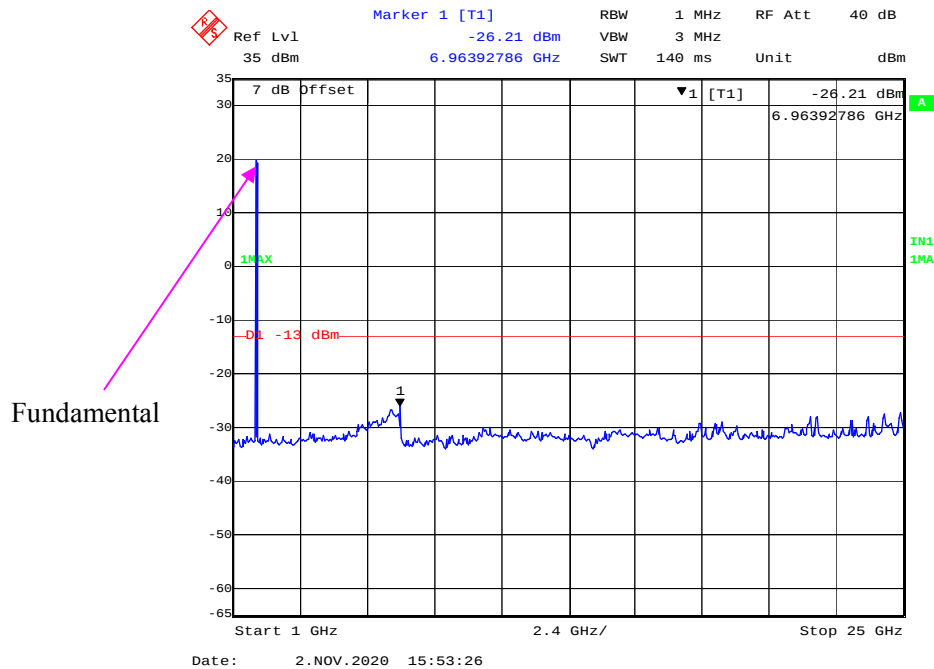


30 MHz - 1 GHz (5 MHz, 16-QAM, Low Channel)**1 GHz – 25 GHz (5 MHz, 16-QAM, Low Channel)**

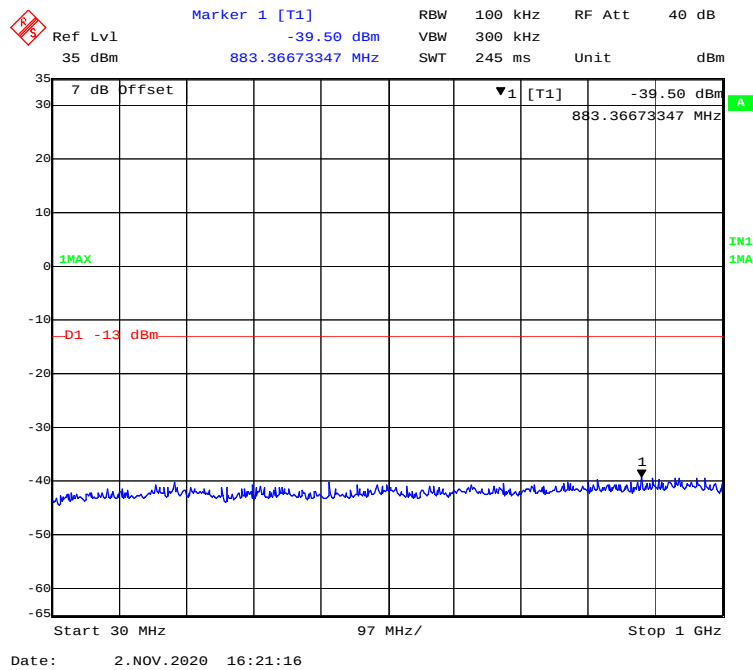
30 MHz - 1 GHz (10 MHz, QPSK, Low Channel)



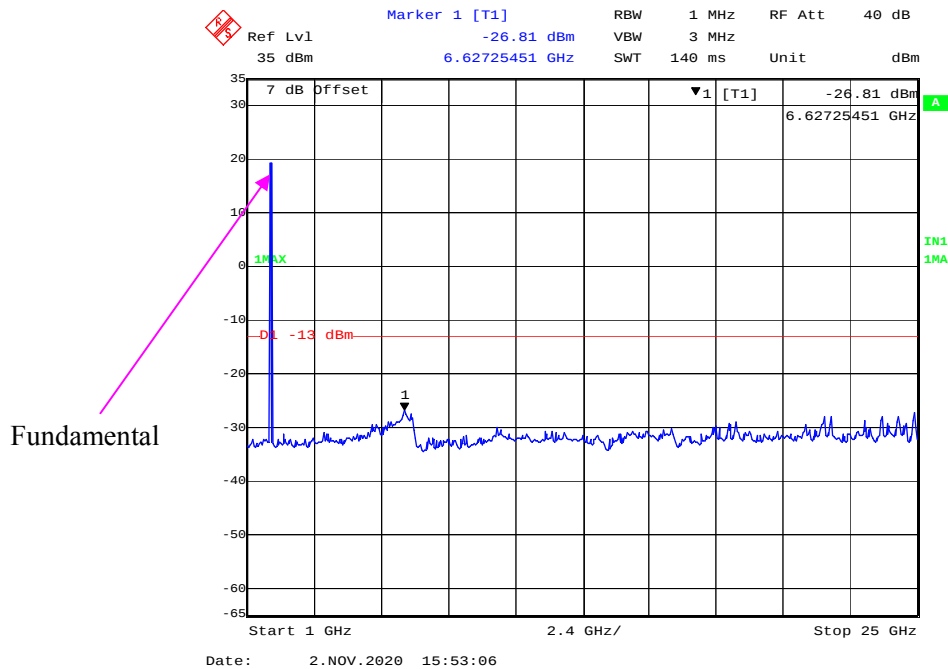
1 GHz – 25 GHz (10 MHz, QPSK, Low Channel)

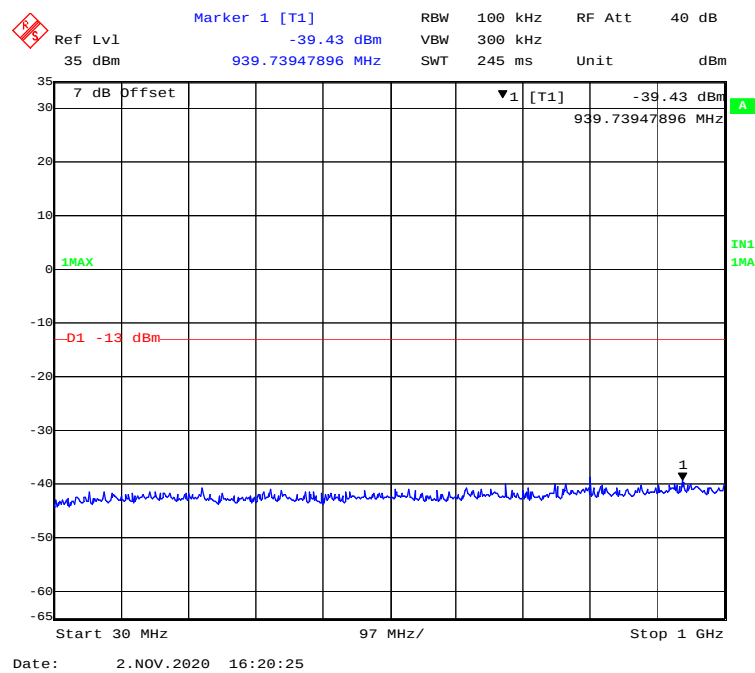
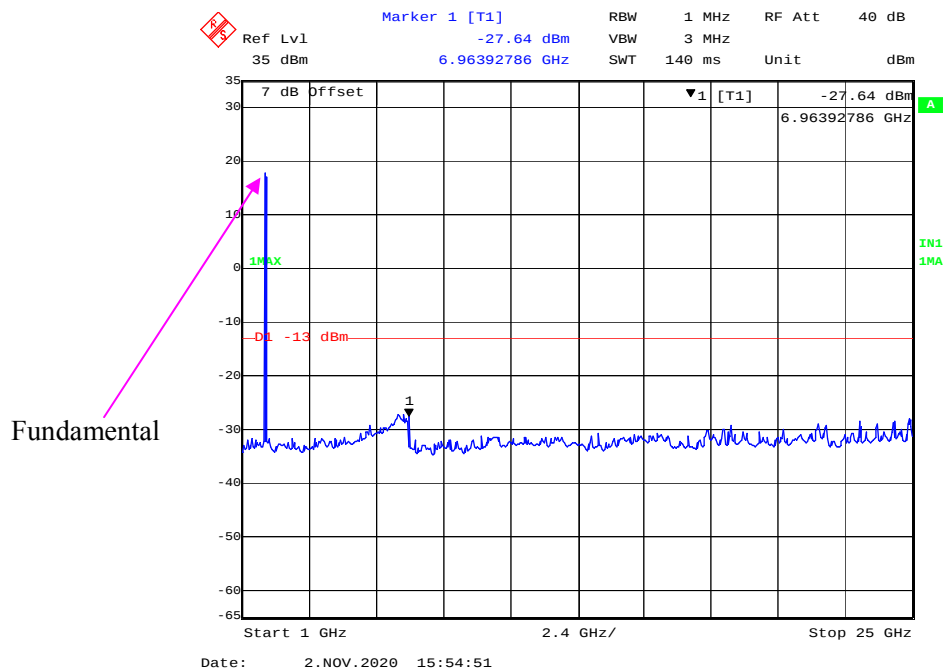


30 MHz - 1 GHz (10 MHz, 16-QAM, Low Channel)

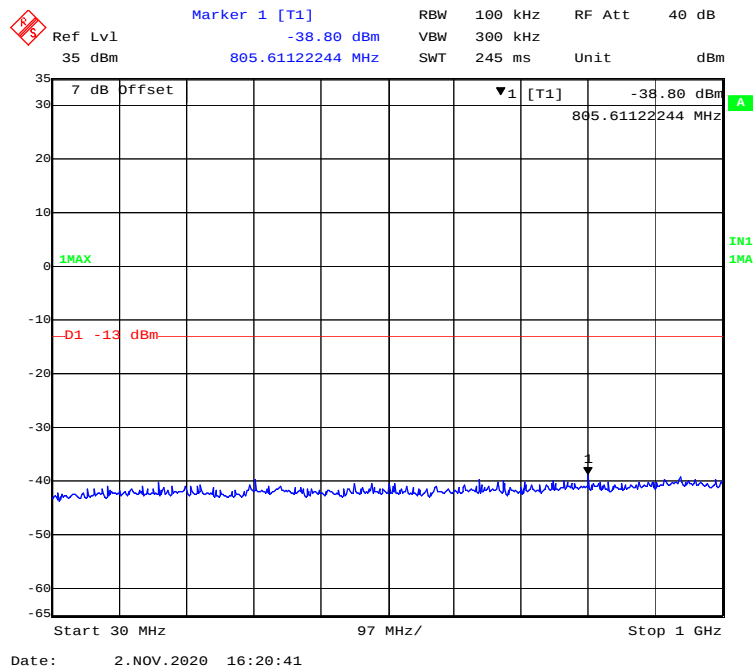


1 GHz – 25 GHz (10 MHz, 16-QAM, Low Channel)

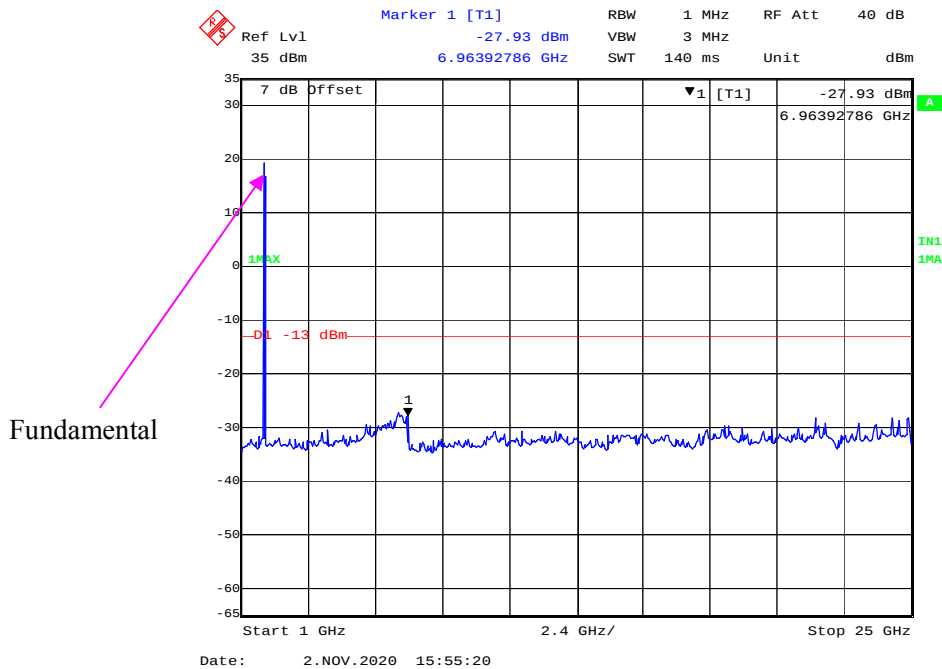


30 MHz - 1 GHz (15 MHz, QPSK, Low Channel)**1 GHz – 25 GHz (15 MHz, QPSK, Low Channel)**

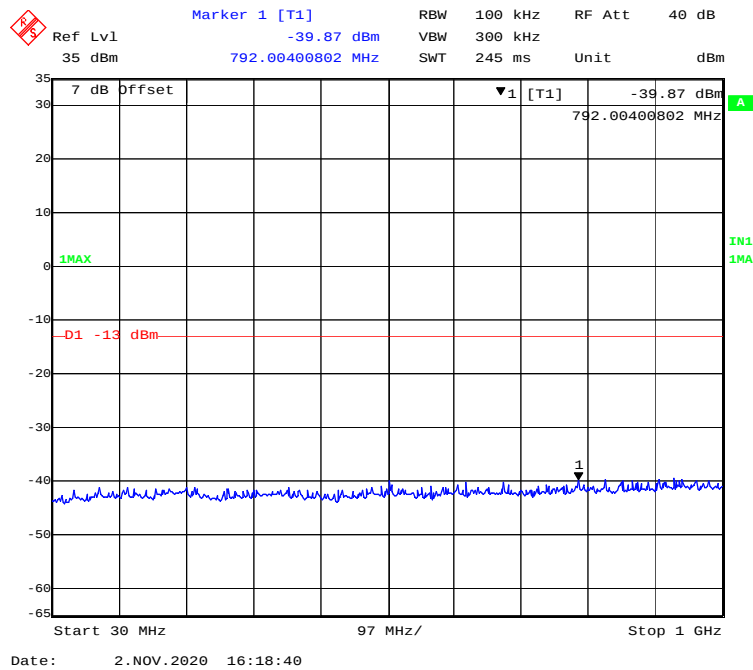
30 MHz - 1 GHz (15 MHz, 16-QAM, Low Channel)



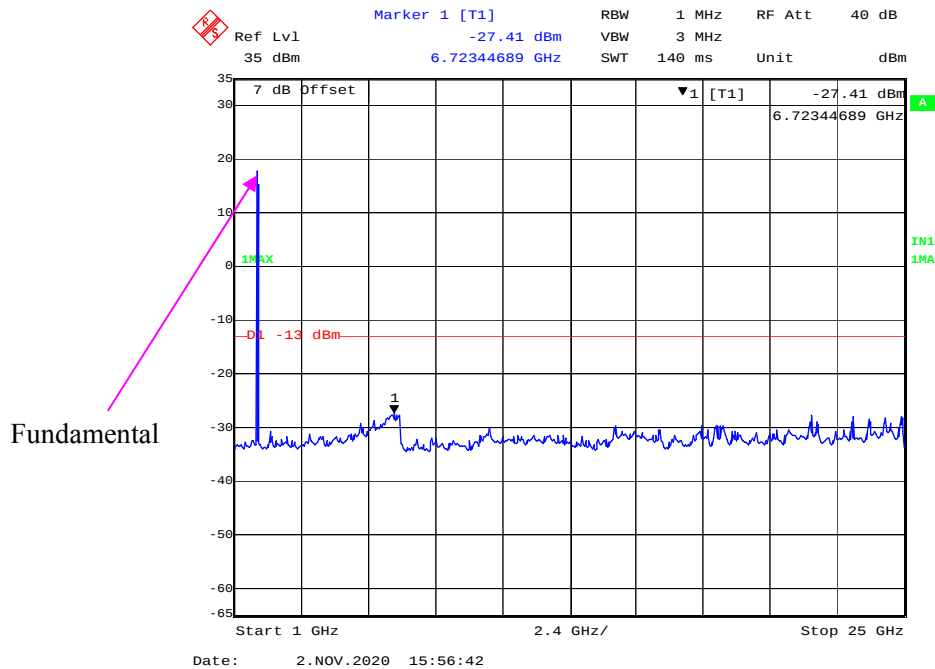
1 GHz – 25 GHz (15 MHz, 16-QAM, Low Channel)



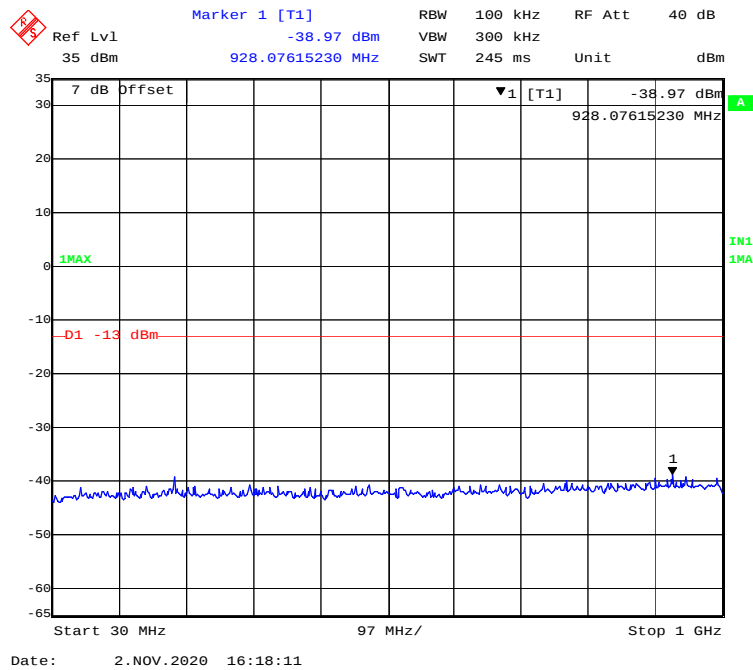
30 MHz - 1 GHz (20 MHz, QPSK, Low Channel)



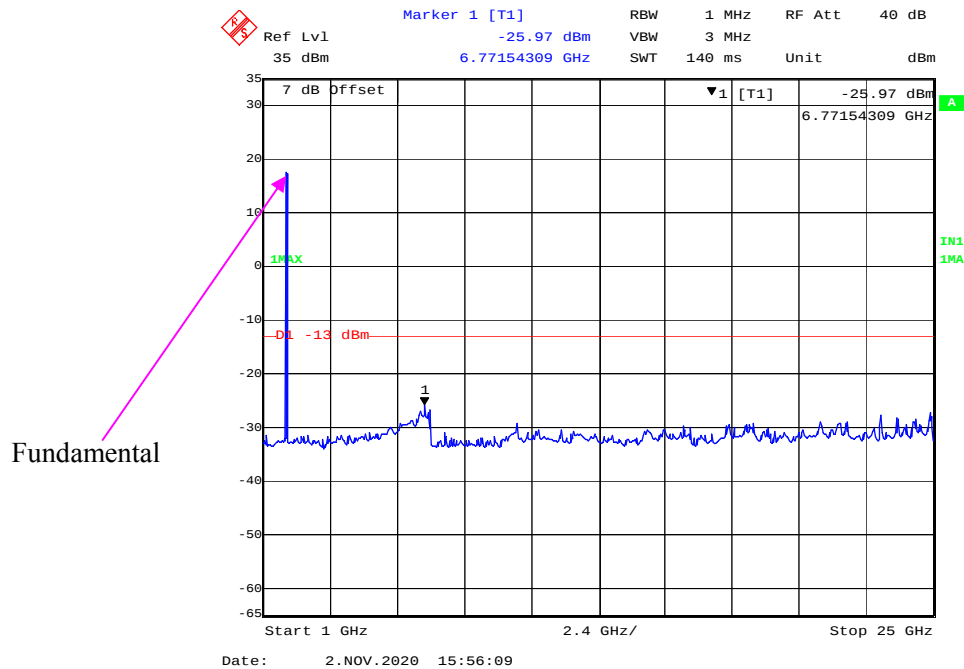
1 GHz – 25 GHz (20 MHz, QPSK, Low Channel)



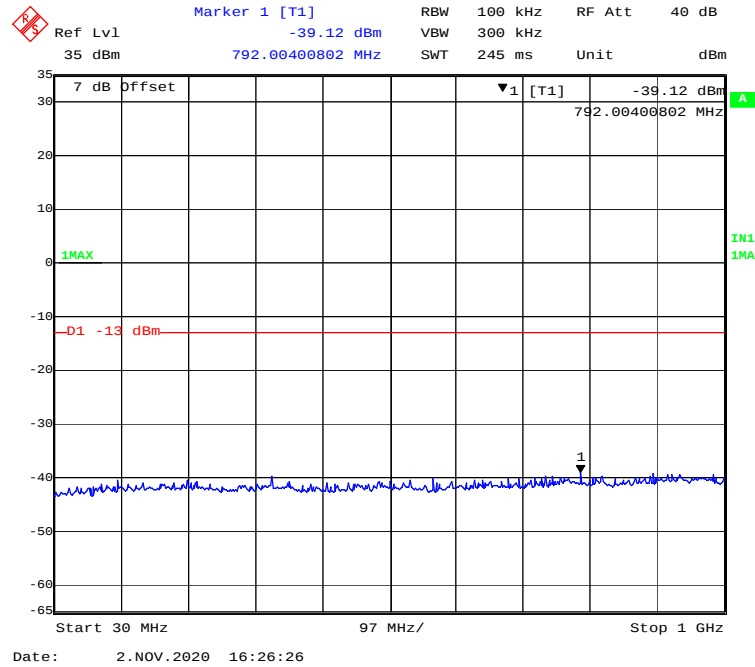
30 MHz - 1 GHz (20 MHz, 16-QAM, Low Channel)



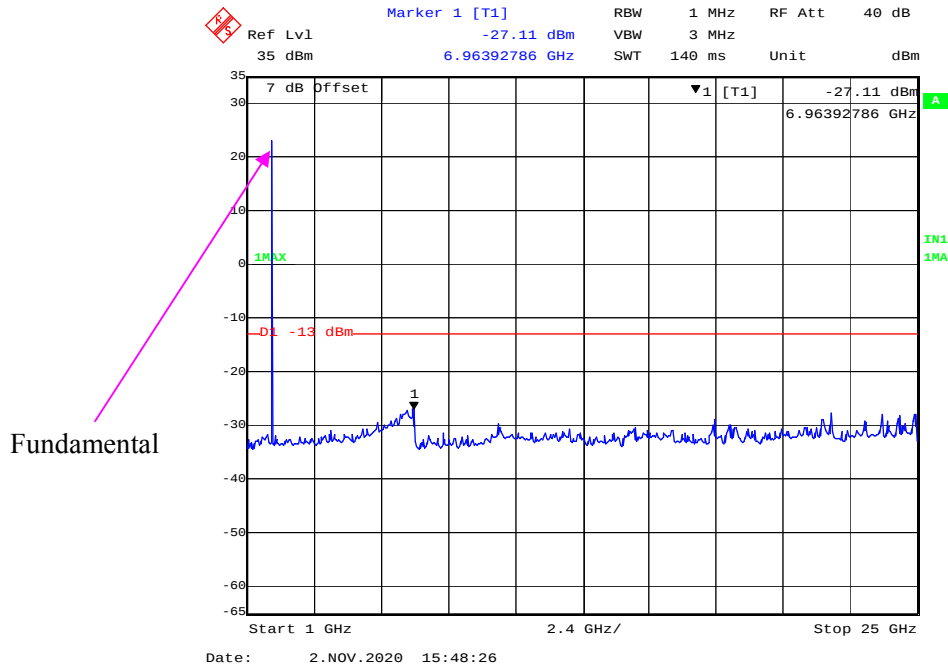
1 GHz – 25 GHz (20 MHz, 16-QAM, Low Channel)



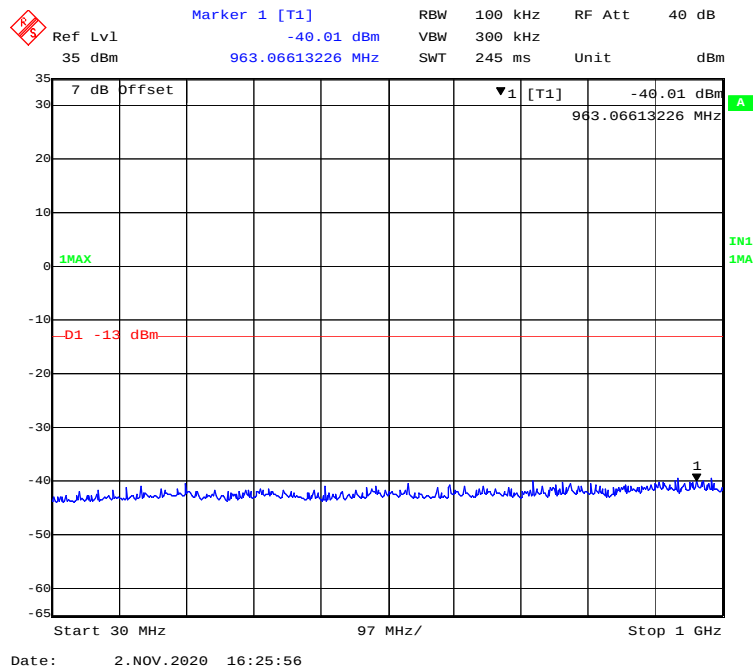
30 MHz - 1 GHz (1.4 MHz, QPSK, Middle Channel)



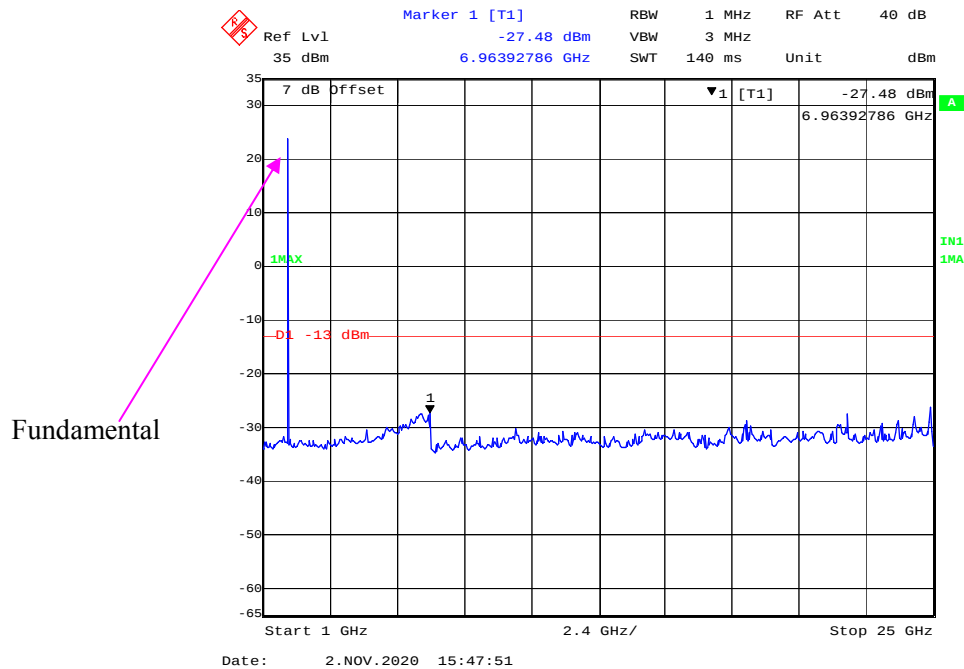
1 GHz – 25 GHz (1.4 MHz, QPSK, Middle Channel)



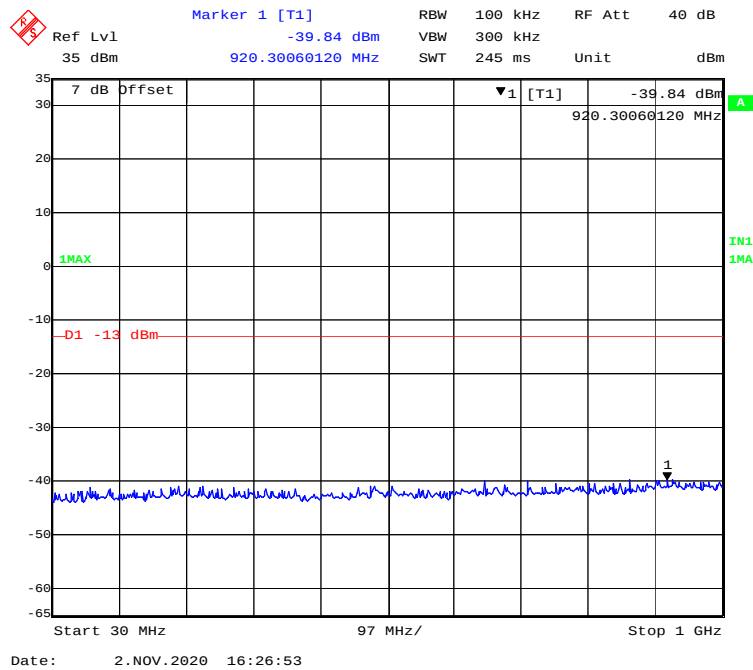
30 MHz - 1 GHz (1.4 MHz, 16-QAM, Middle Channel)



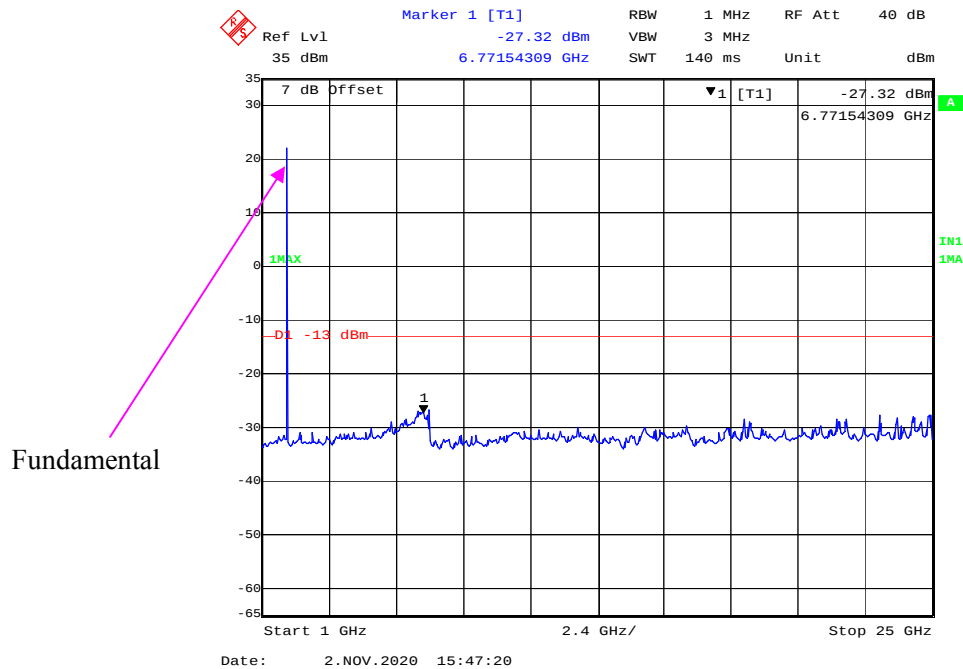
1 GHz – 25 GHz (1.4 MHz, 16-QAM, Middle Channel)



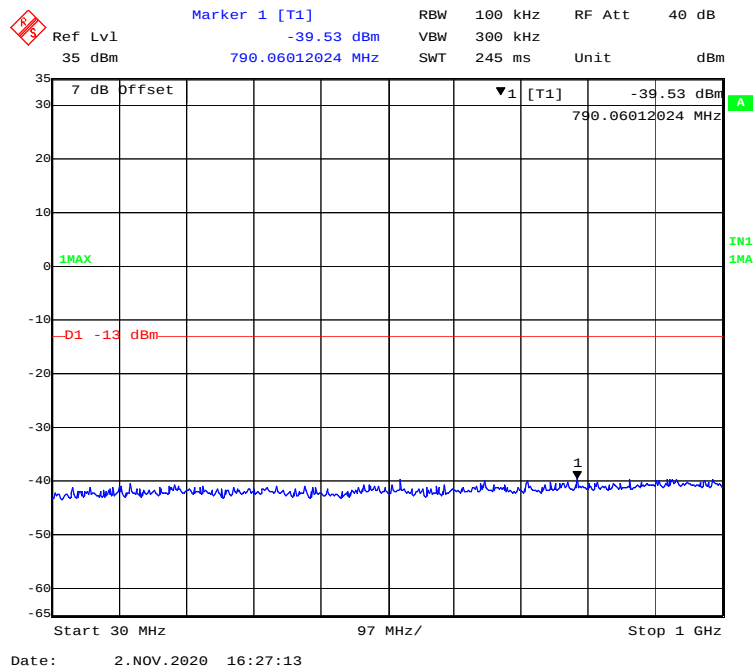
30 MHz - 1 GHz (3 MHz, QPSK, Middle Channel)



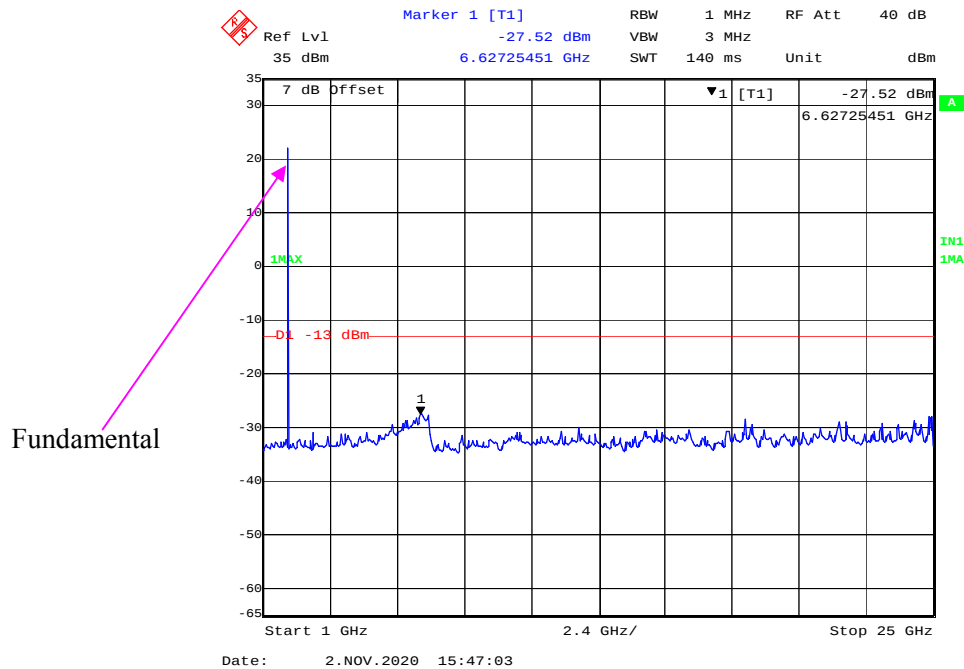
1 GHz – 25 GHz (3 MHz, QPSK, Middle Channel)

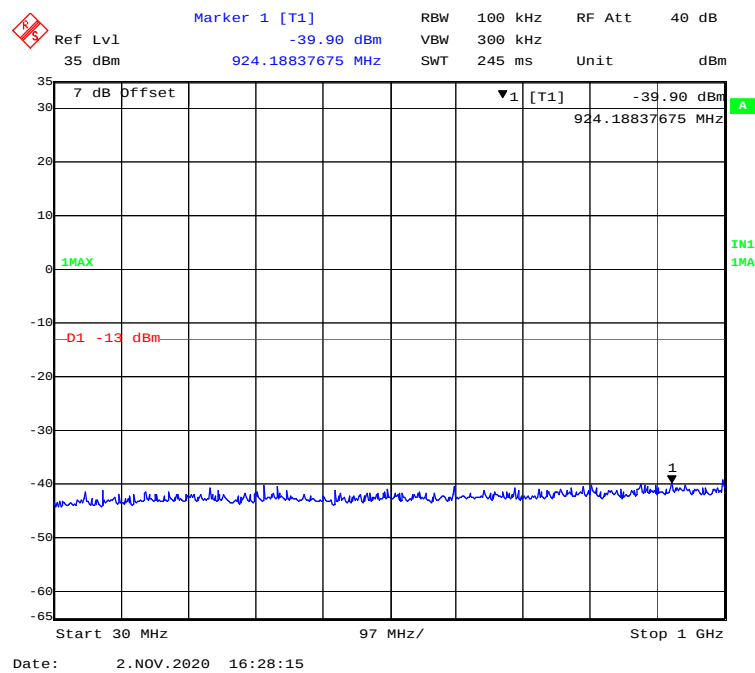
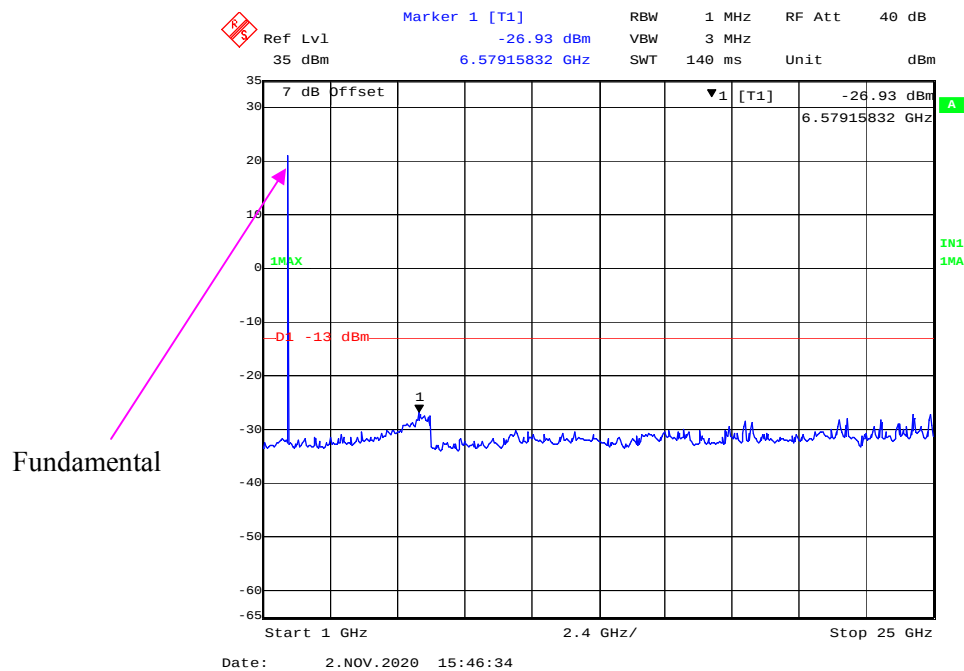


30 MHz - 1 GHz (3 MHz, 16-QAM, Middle Channel)

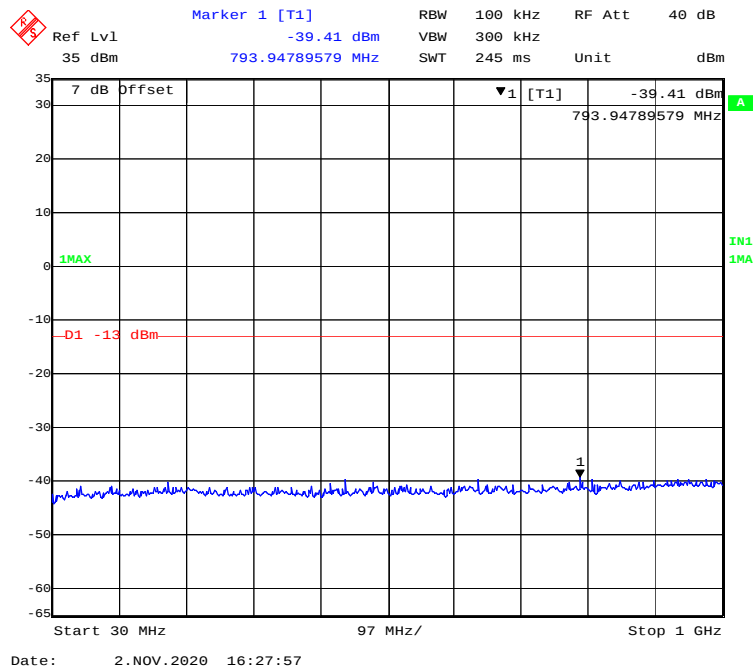


1 GHz – 25 GHz (3 MHz, 16-QAM, Middle Channel)

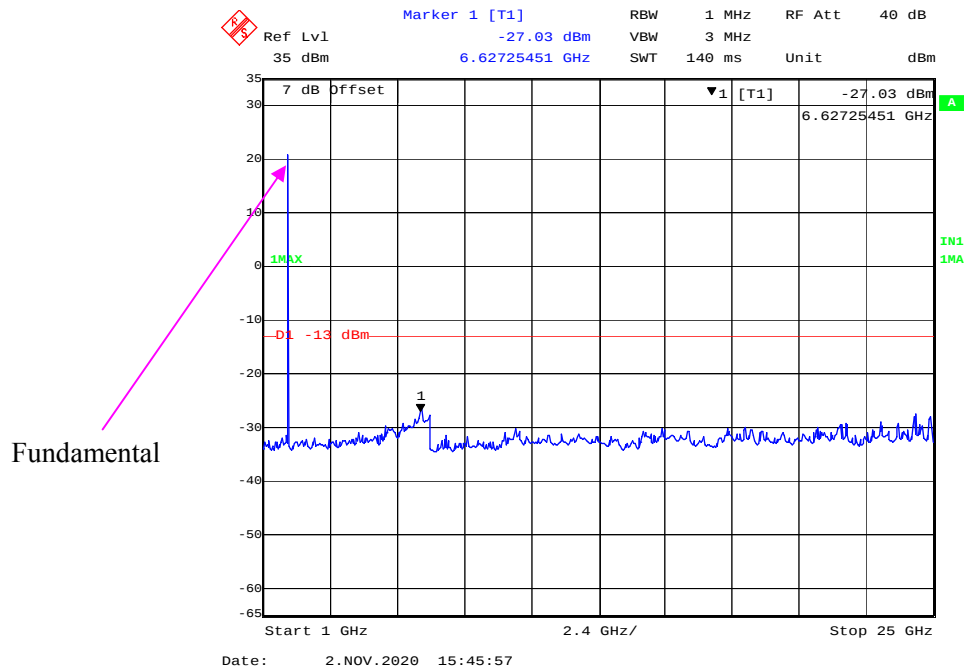


30 MHz - 1 GHz (5 MHz, QPSK, Middle Channel)**1 GHz – 25 GHz (5 MHz, QPSK, Middle Channel)**

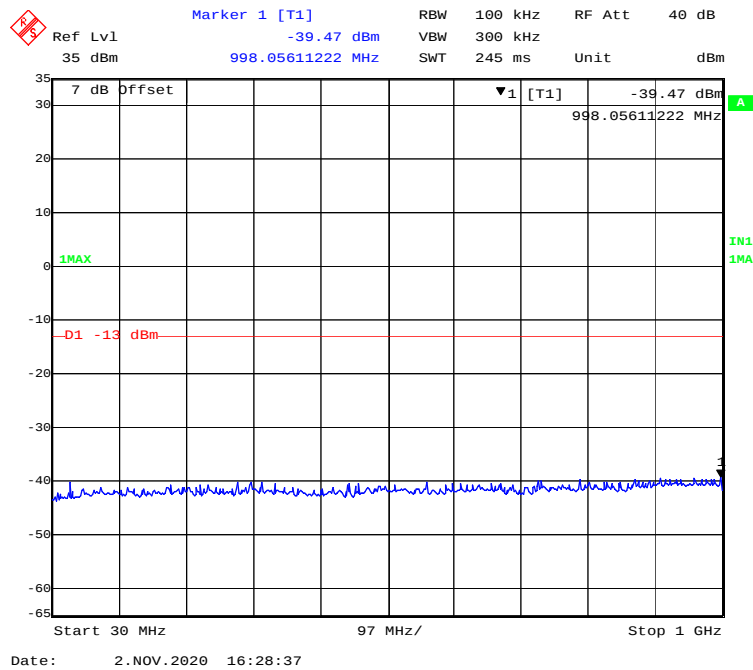
30 MHz - 1 GHz (5 MHz, 16-QAM, Middle Channel)



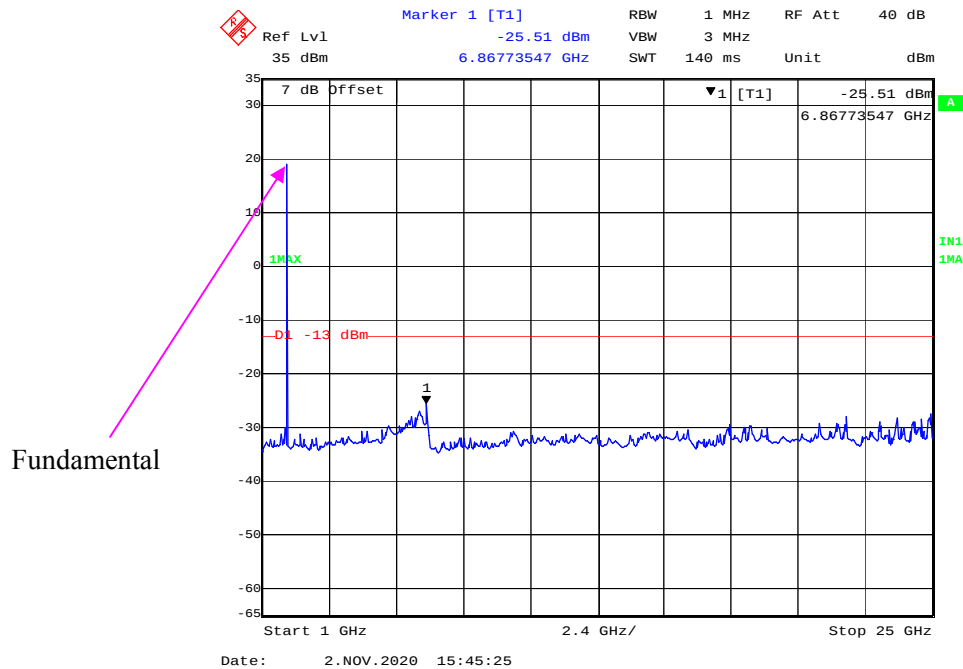
1 GHz – 25 GHz (5 MHz, 16-QAM, Middle Channel)



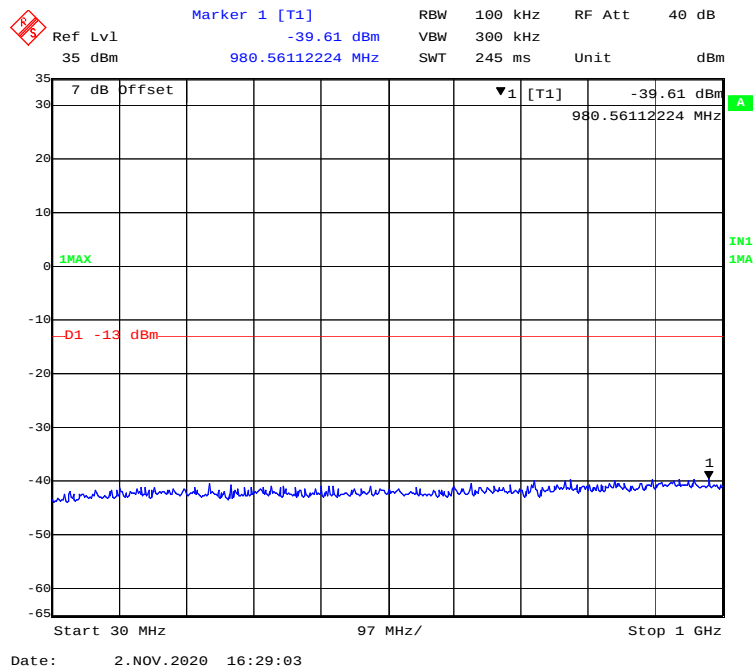
30 MHz - 1 GHz (10 MHz, QPSK, Middle Channel)



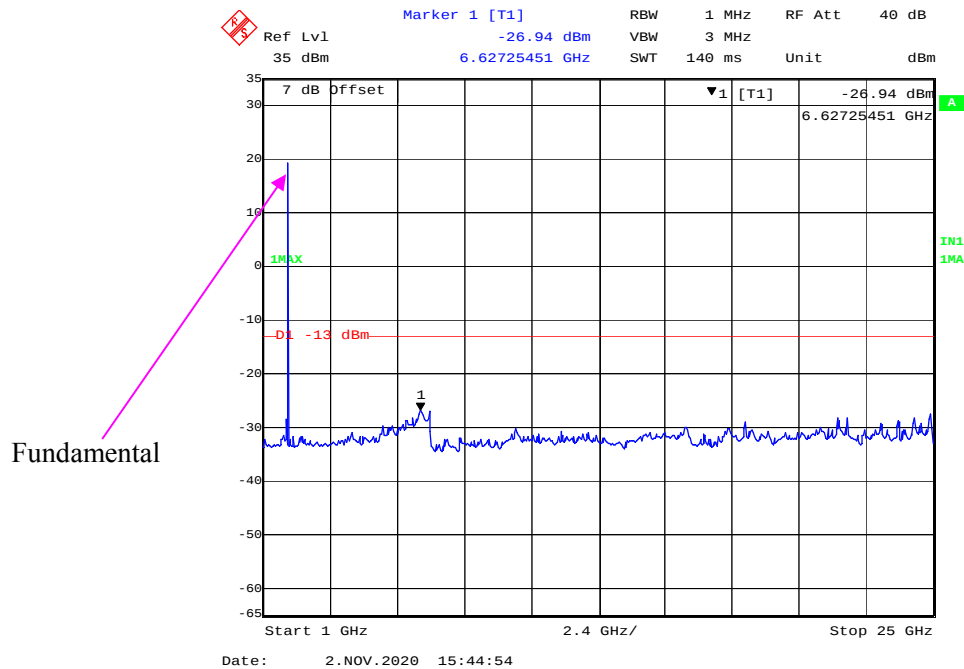
1 GHz – 25 GHz (10 MHz, QPSK, Middle Channel)



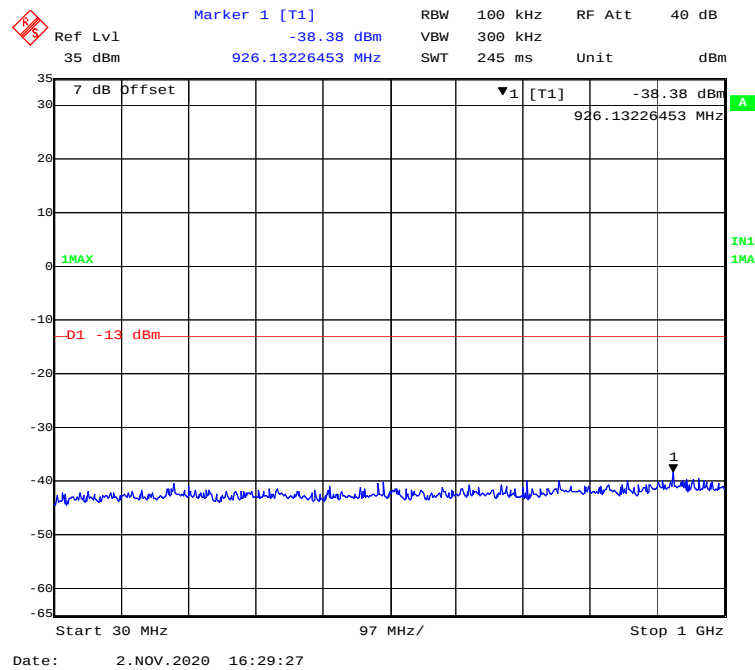
30 MHz - 1 GHz (10 MHz, 16-QAM, Middle Channel)



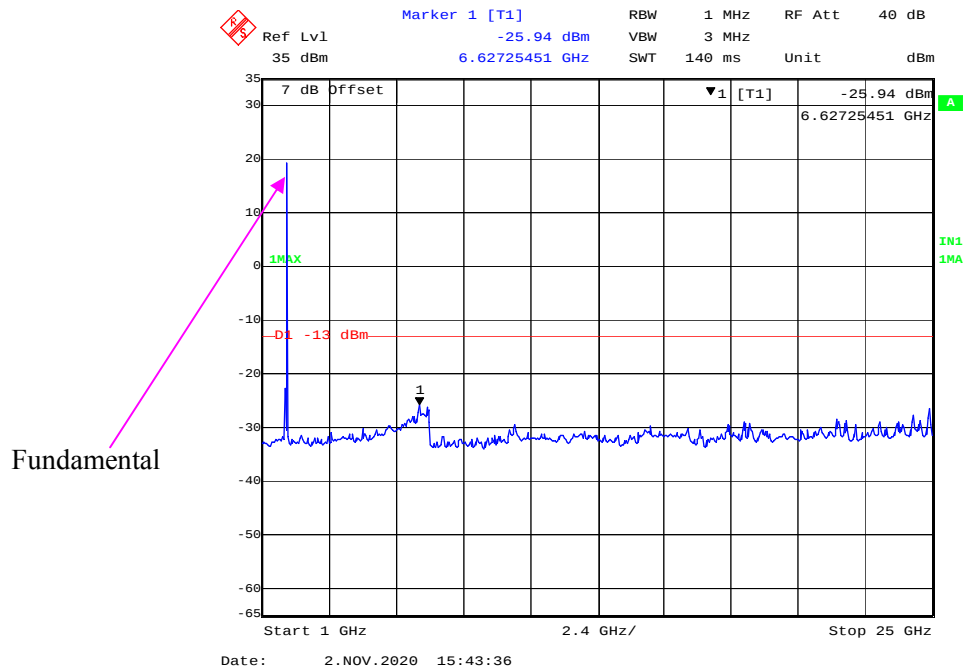
1 GHz – 25 GHz (10 MHz, 16-QAM, Middle Channel)



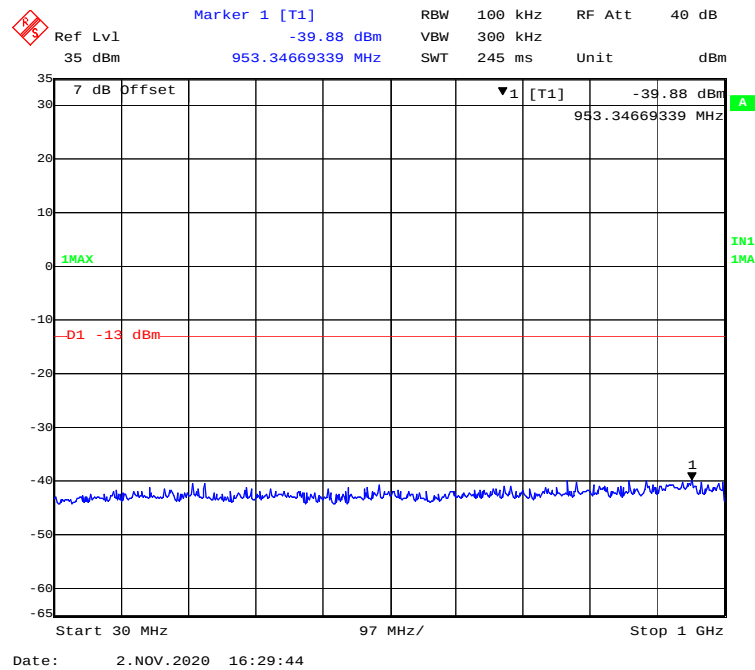
30 MHz - 1 GHz (15 MHz, QPSK, Middle Channel)



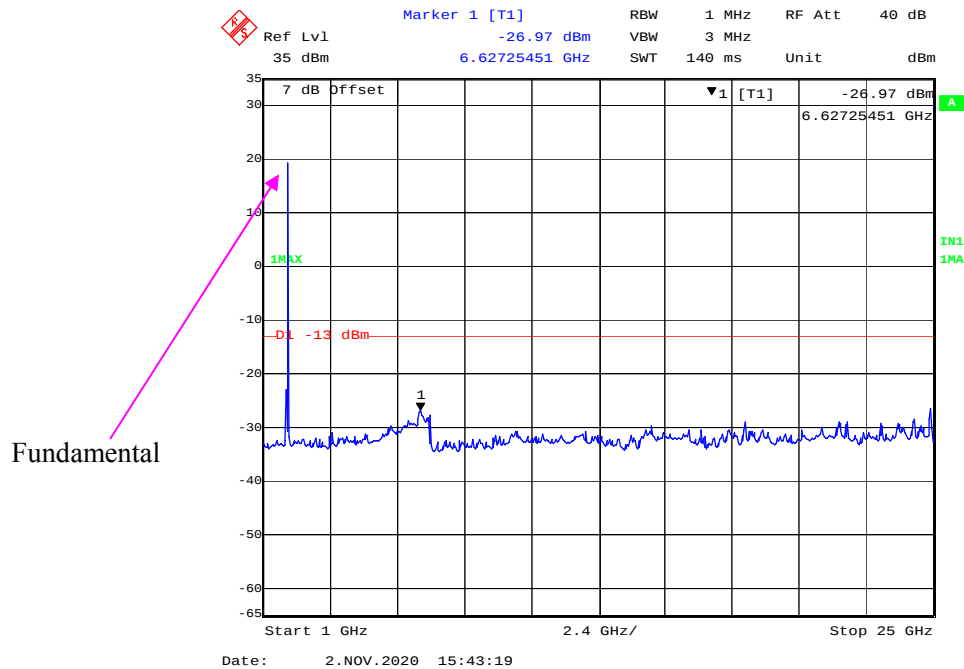
1 GHz – 25 GHz (15 MHz, QPSK, Middle Channel)



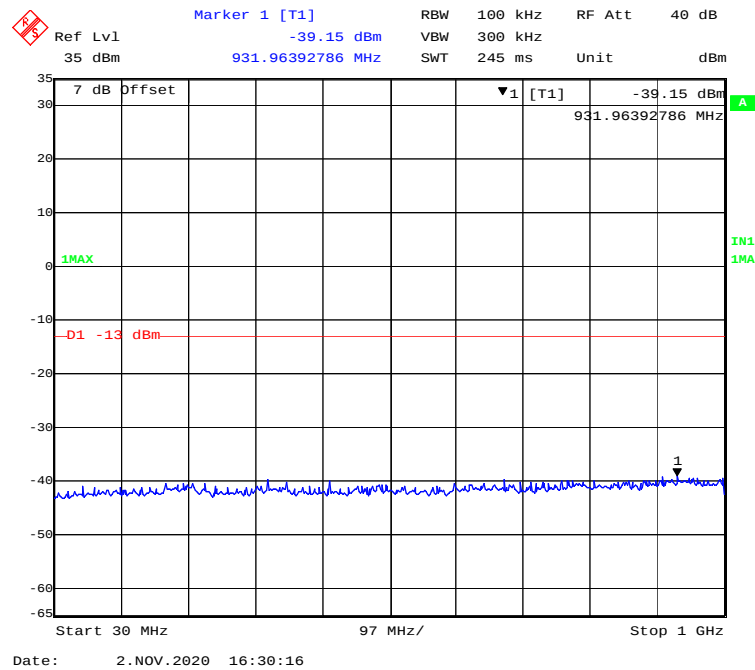
30 MHz - 1 GHz (15 MHz, 16-QAM, Middle Channel)



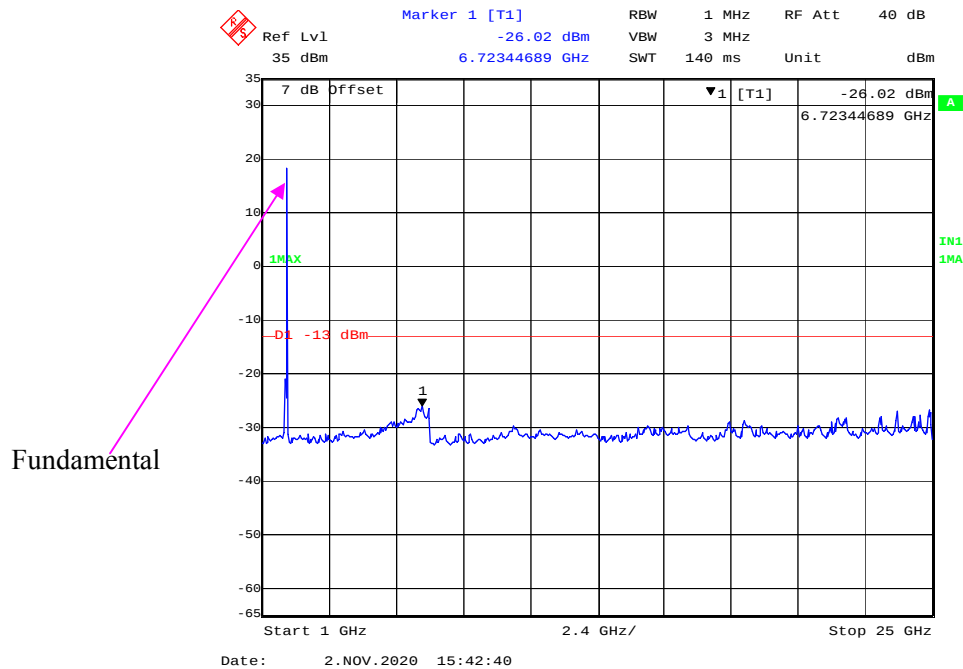
1 GHz – 25 GHz (15 MHz, 16-QAM, Middle Channel)



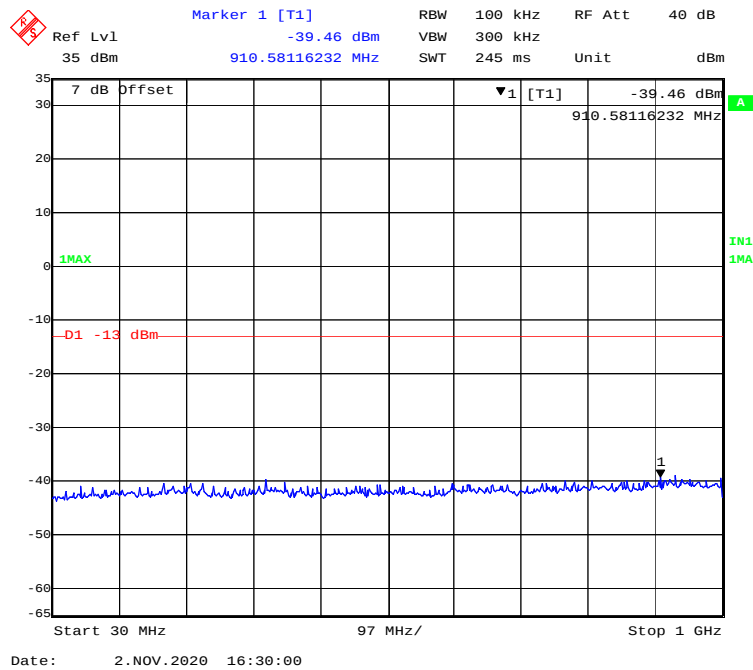
30 MHz - 1 GHz (20 MHz, QPSK, Middle Channel)



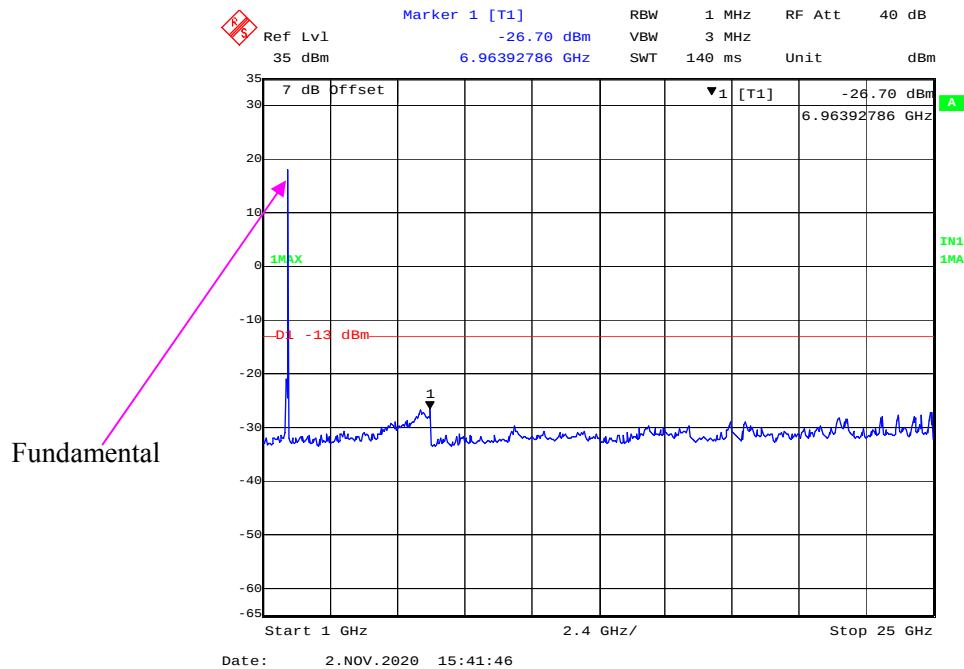
1 GHz – 25 GHz (20 MHz, QPSK, Middle Channel)



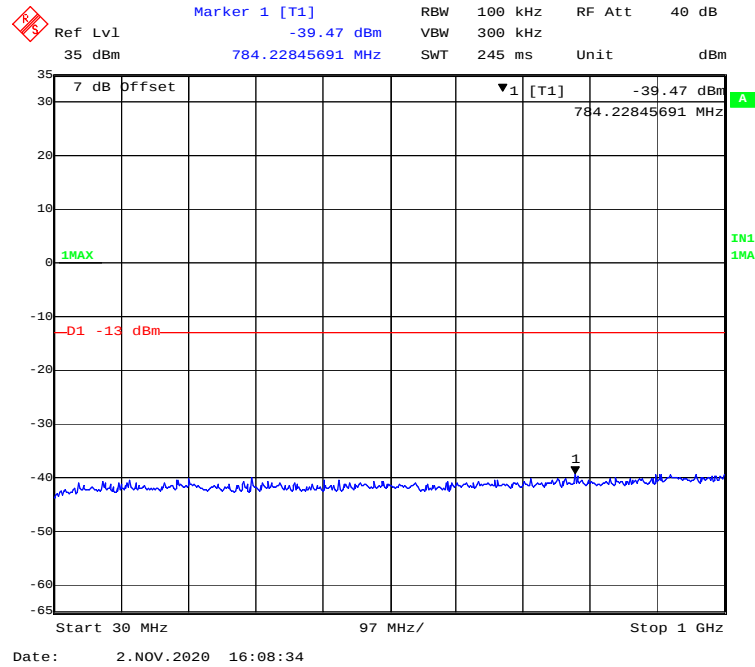
30 MHz - 1 GHz (20 MHz, 16-QAM, Middle Channel)



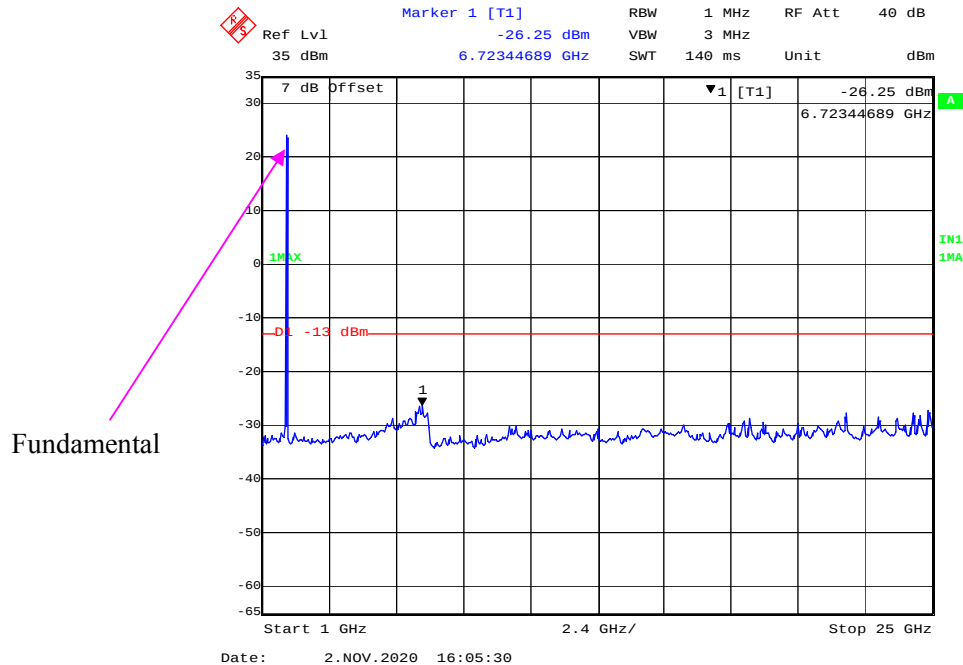
1 GHz – 25 GHz (20 MHz, 16-QAM, Middle Channel)



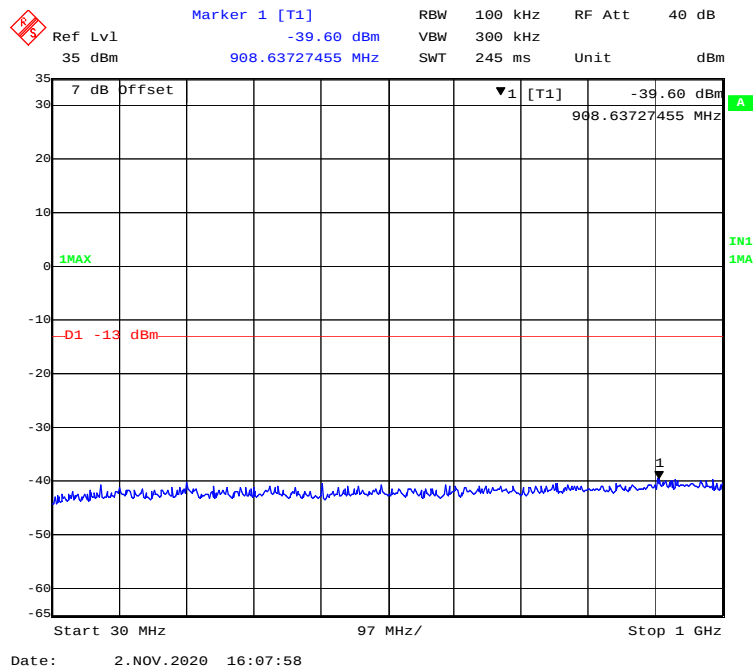
30 MHz - 1 GHz (1.4 MHz, QPSK, High Channel)



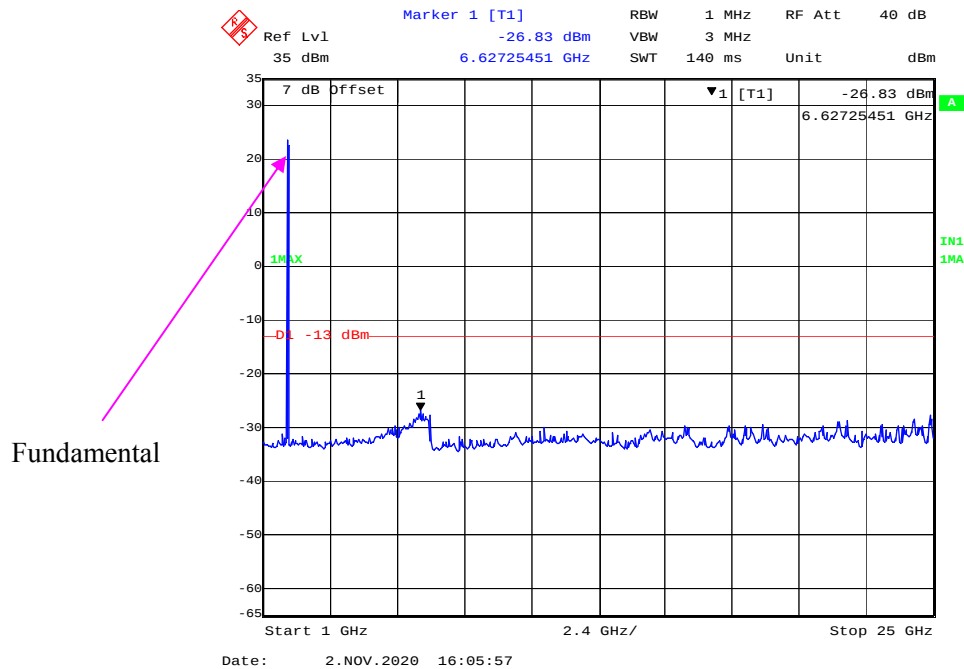
1 GHz – 25 GHz (1.4 MHz, QPSK, High Channel)



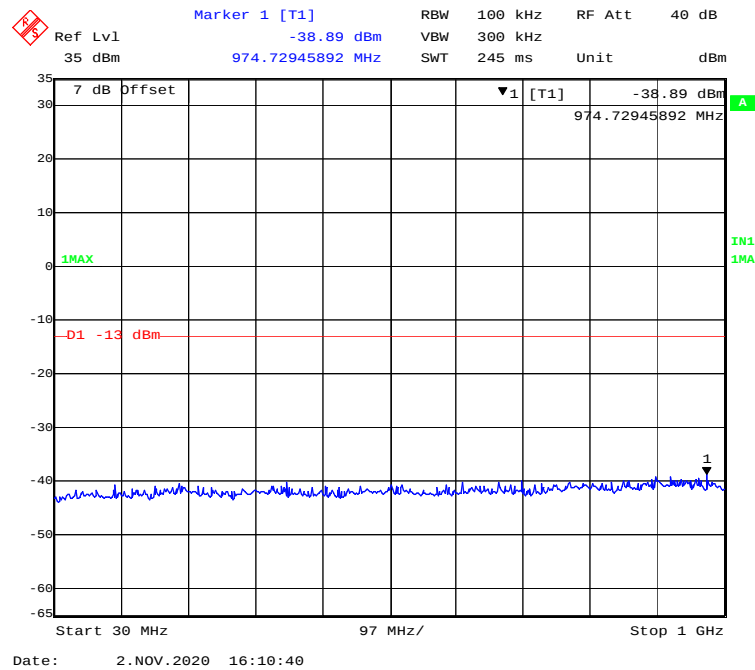
30 MHz - 1 GHz (1.4 MHz, 16-QAM, High Channel)



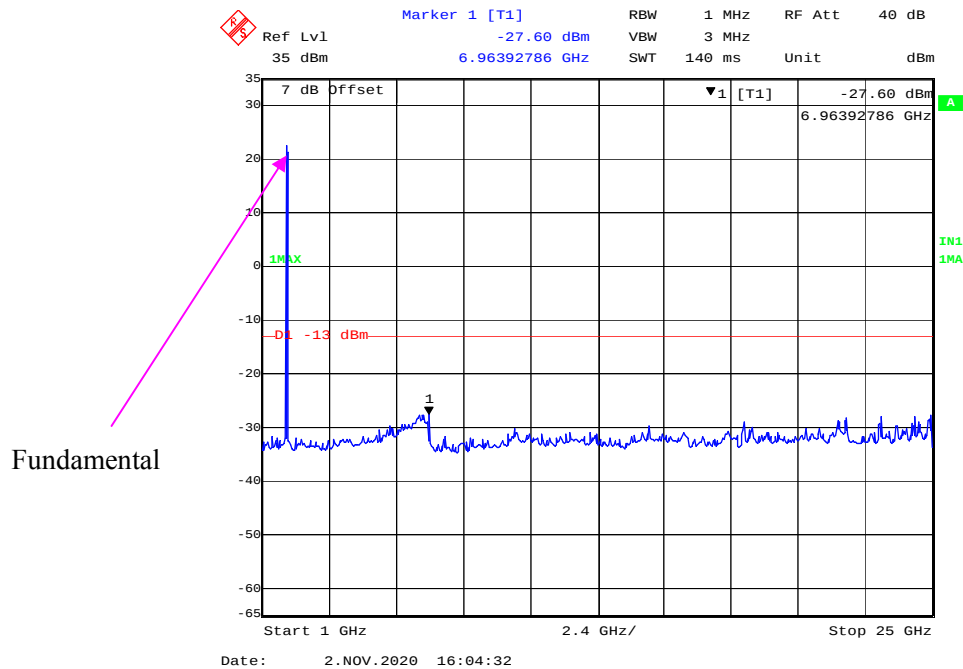
1 GHz – 25 GHz (1.4 MHz, 16-QAM, High Channel)



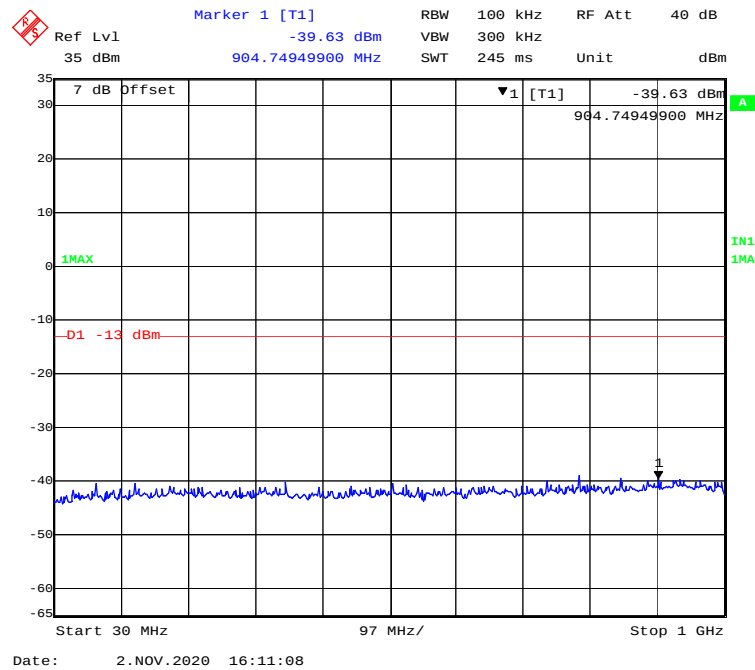
30 MHz - 1 GHz (3 MHz, QPSK, High Channel)



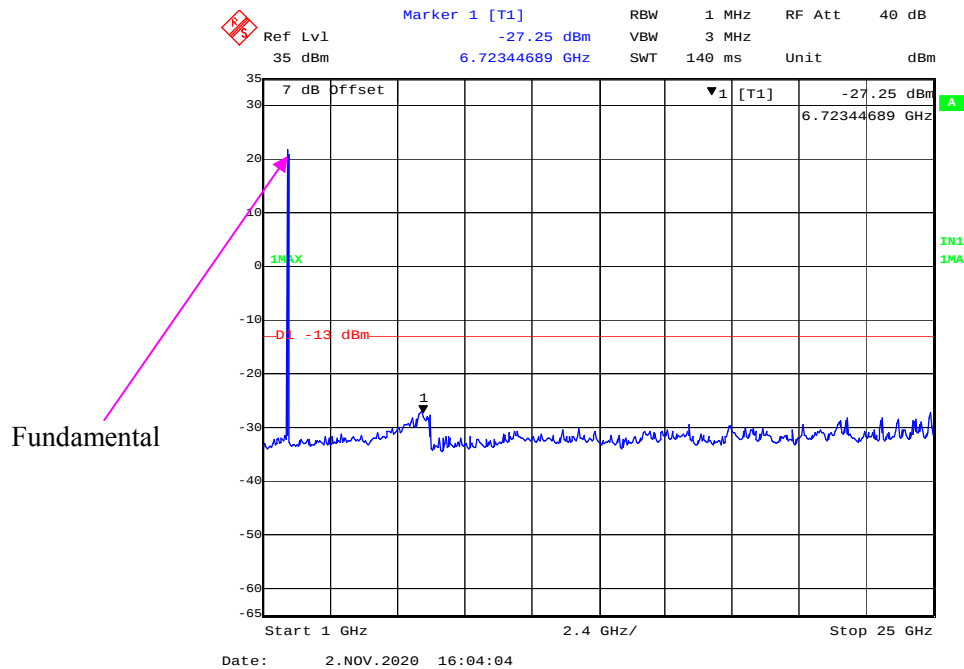
1 GHz – 25 GHz (3 MHz, QPSK, High Channel)



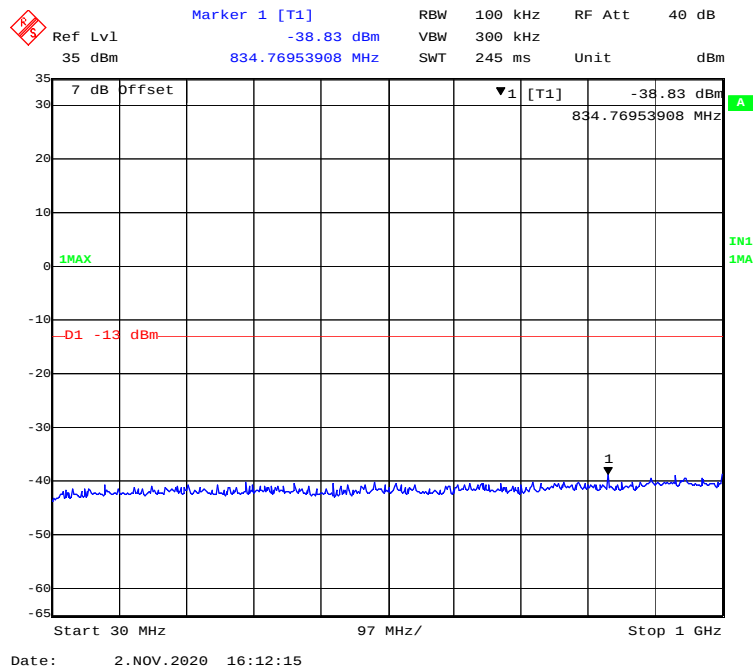
30 MHz - 1 GHz (3 MHz, 16-QAM, High Channel)



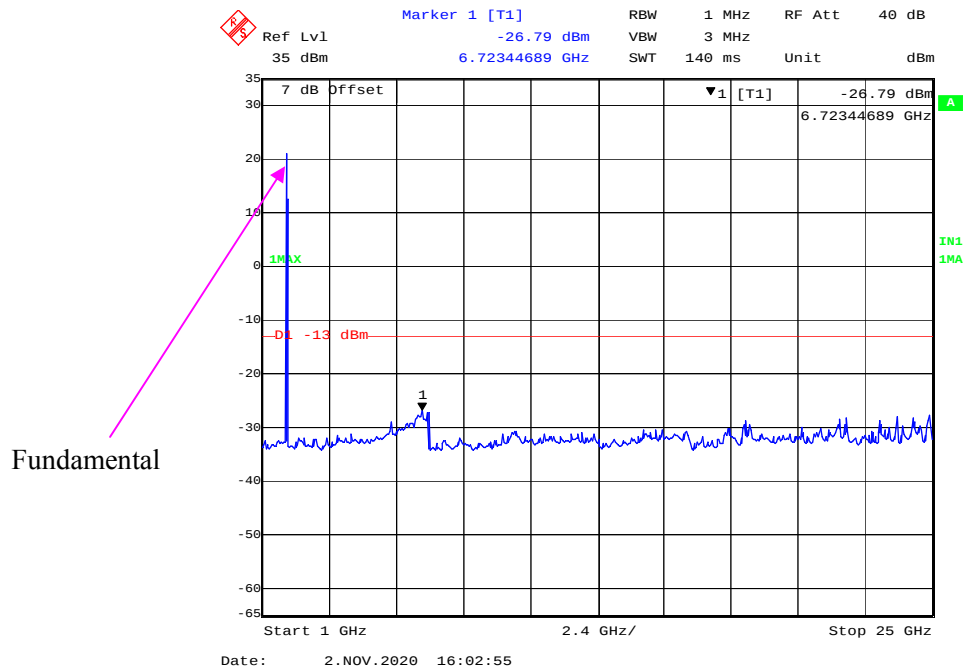
1 GHz – 25 GHz (3 MHz, 16-QAM, High Channel)

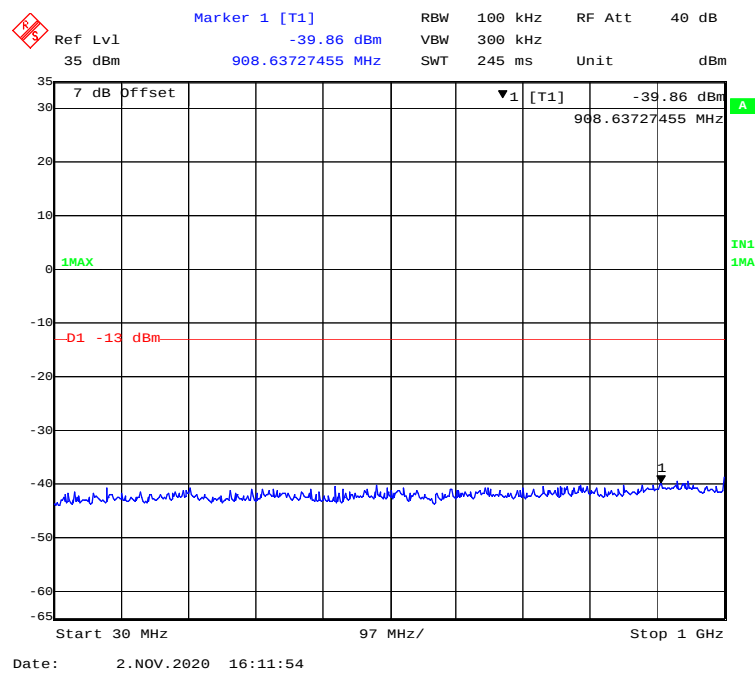
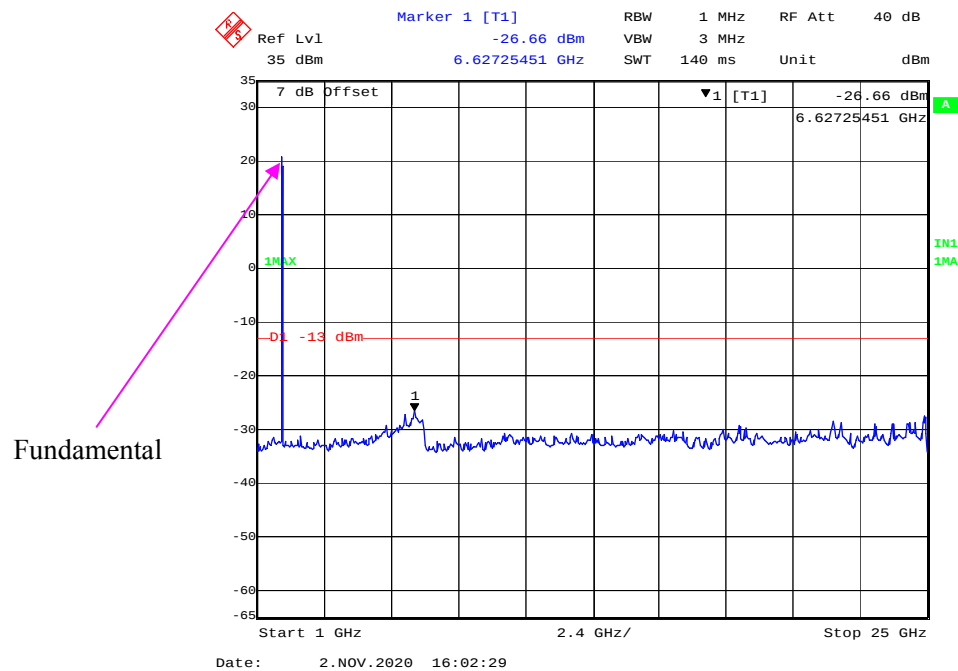


30 MHz - 1 GHz (5 MHz, QPSK, High Channel)

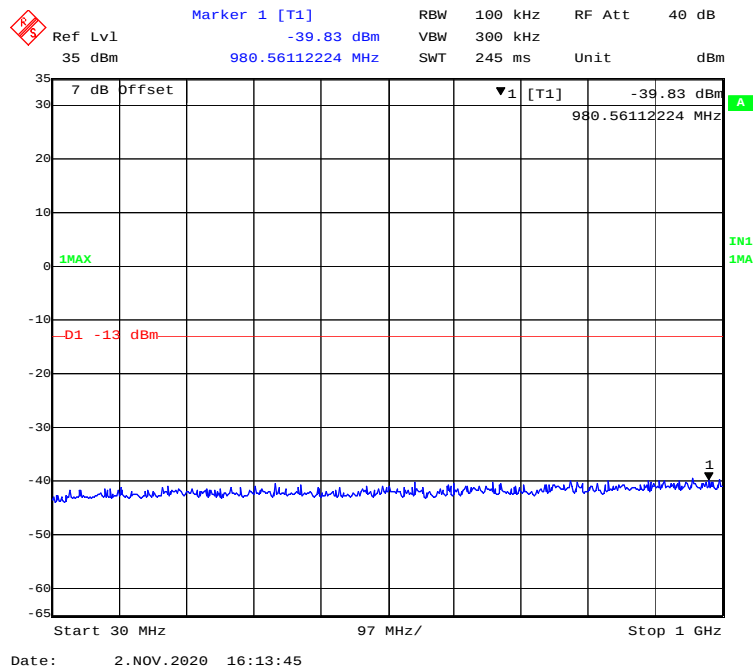


1 GHz - 25 GHz (5 MHz, QPSK, High Channel)

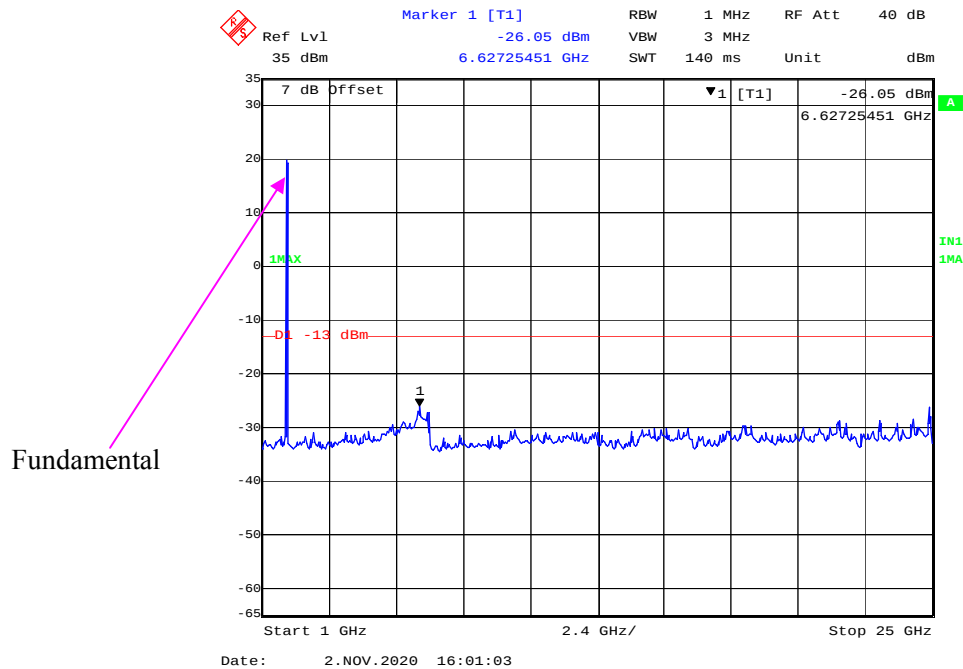


30 MHz - 1 GHz (5 MHz, 16-QAM, High Channel)**1 GHz – 25 GHz (5 MHz, 16-QAM, High Channel)**

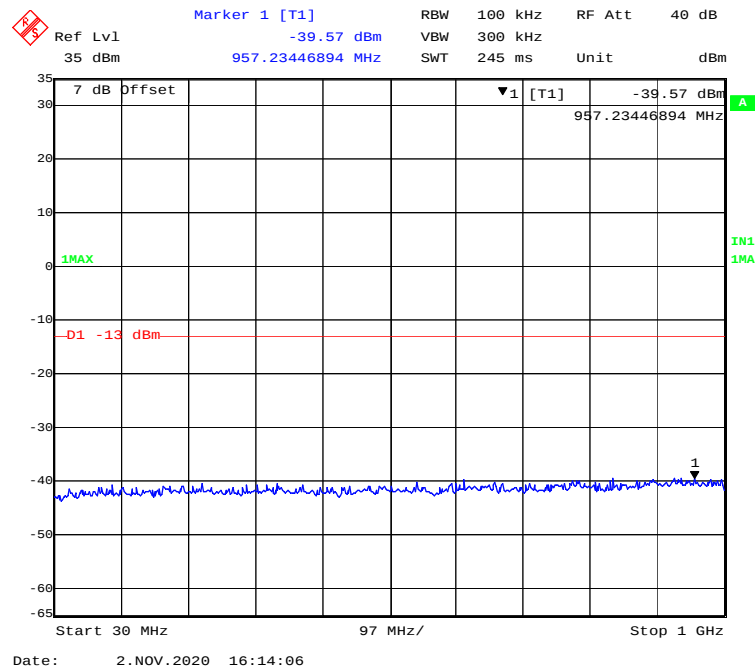
30 MHz - 1 GHz (10 MHz, QPSK, High Channel)



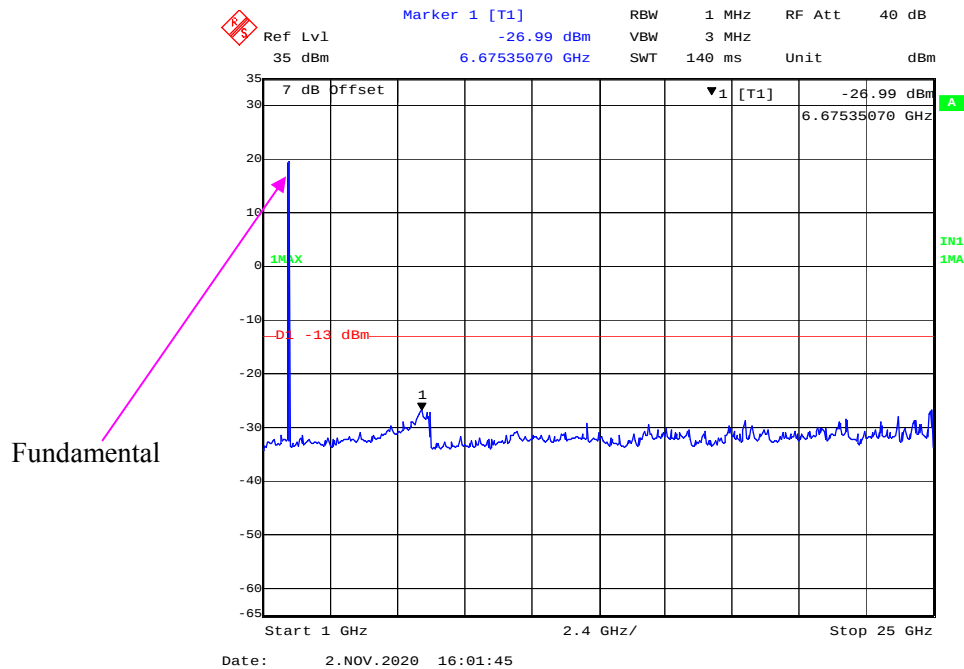
1 GHz – 25 GHz (10 MHz, QPSK, High Channel)



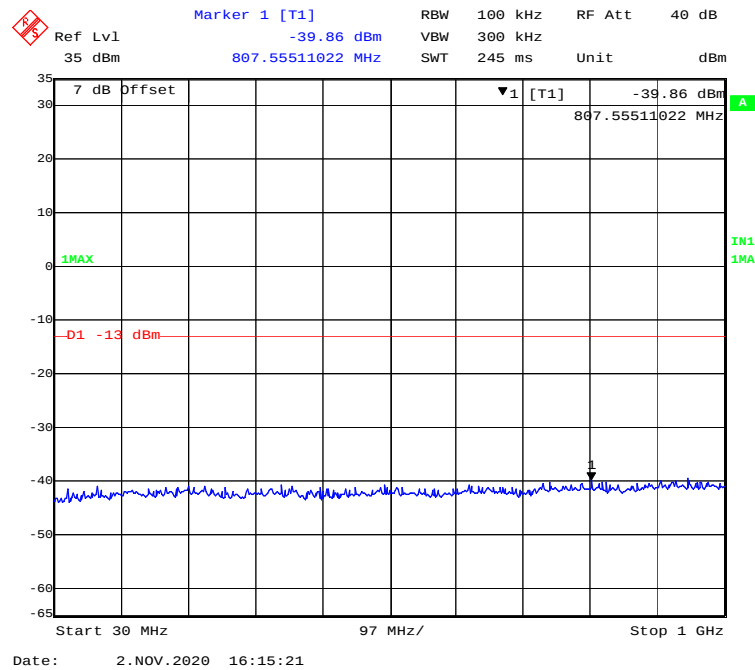
30 MHz - 1 GHz (10 MHz, 16-QAM, High Channel)



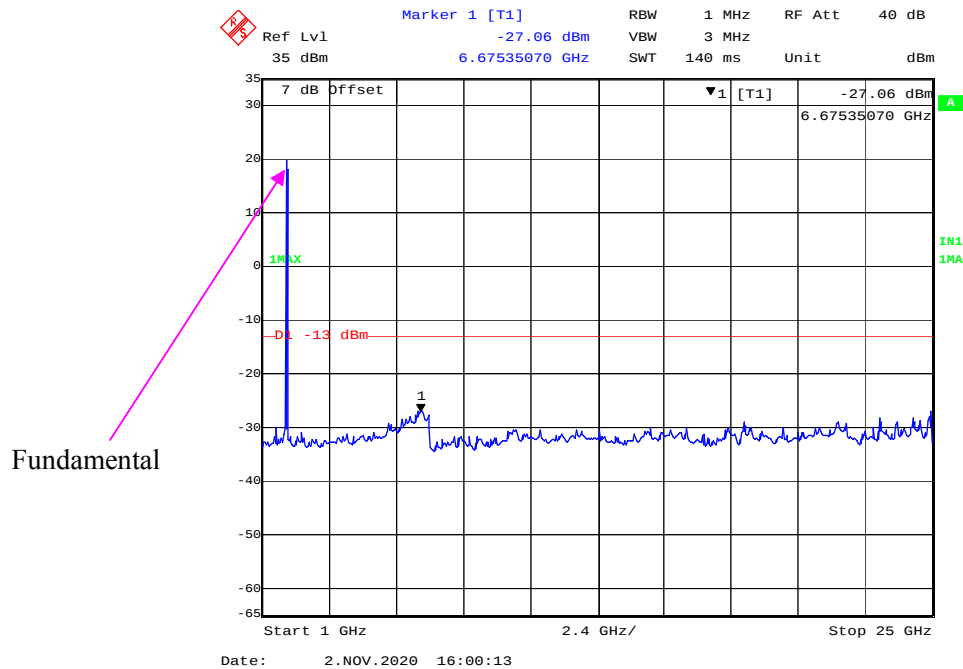
1 GHz – 25 GHz (10 MHz, 16-QAM, High Channel)



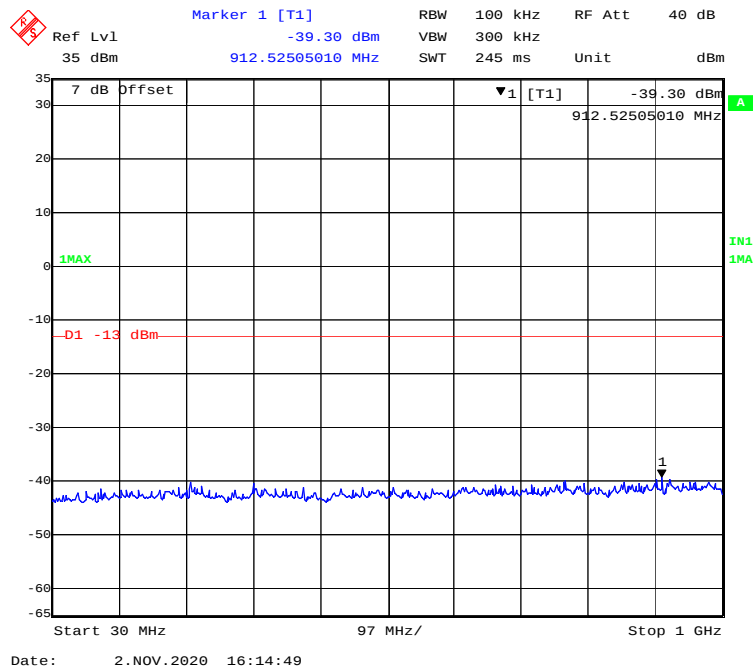
30 MHz - 1 GHz (15 MHz, QPSK, High Channel)



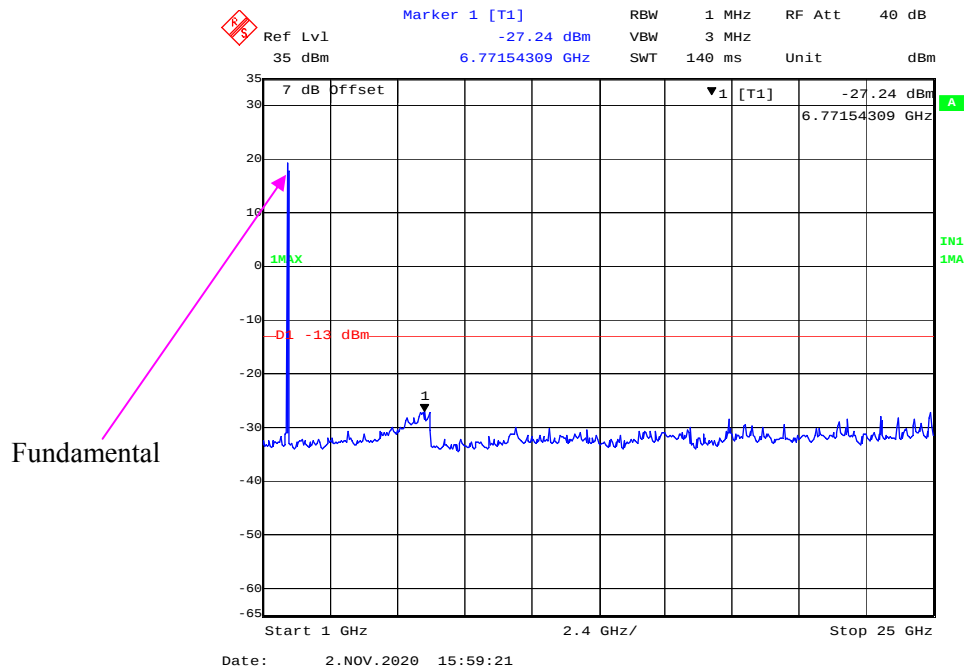
1 GHz – 25 GHz (15 MHz, QPSK, High Channel)



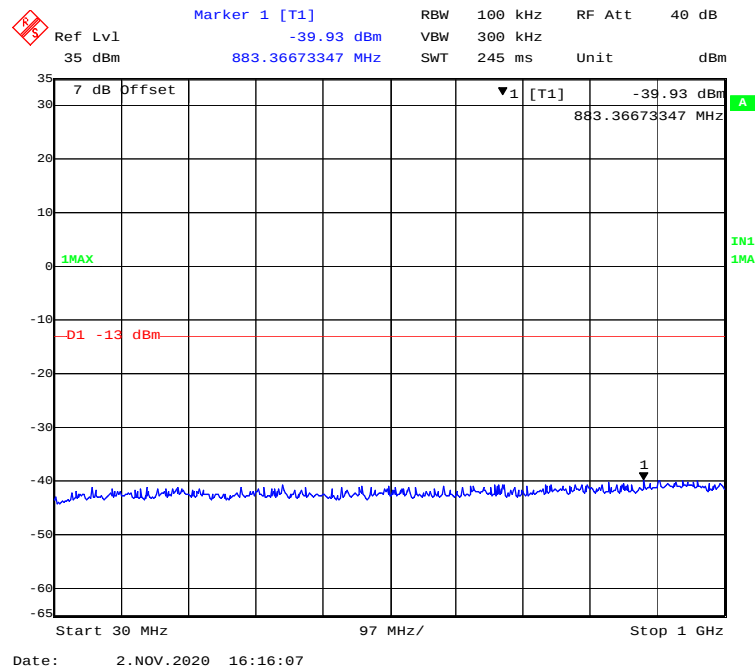
30 MHz - 1 GHz (15 MHz, 16-QAM, High Channel)



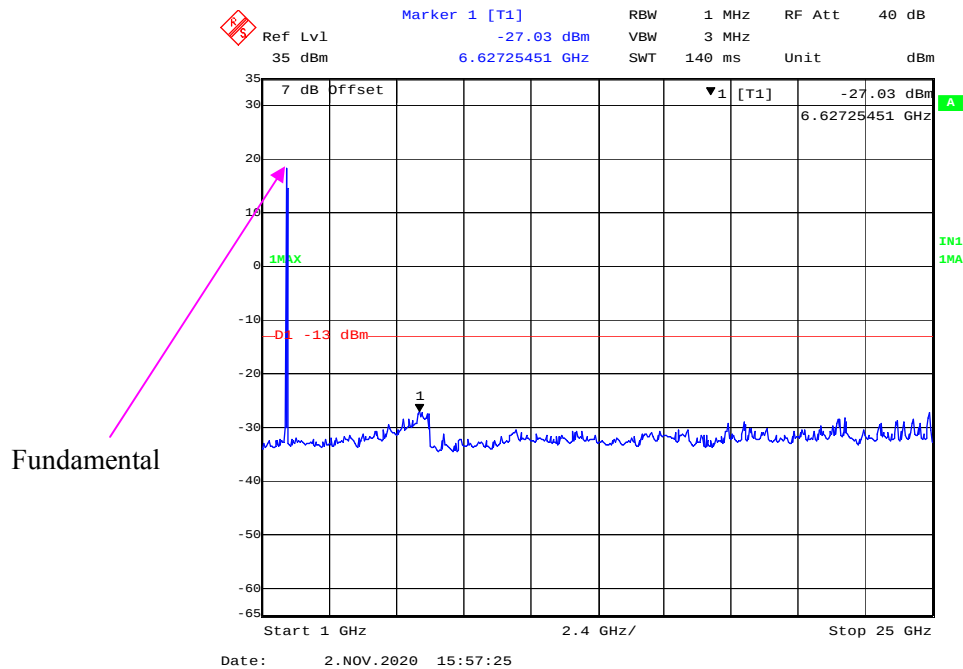
1 GHz – 25 GHz (15 MHz, 16-QAM, High Channel)



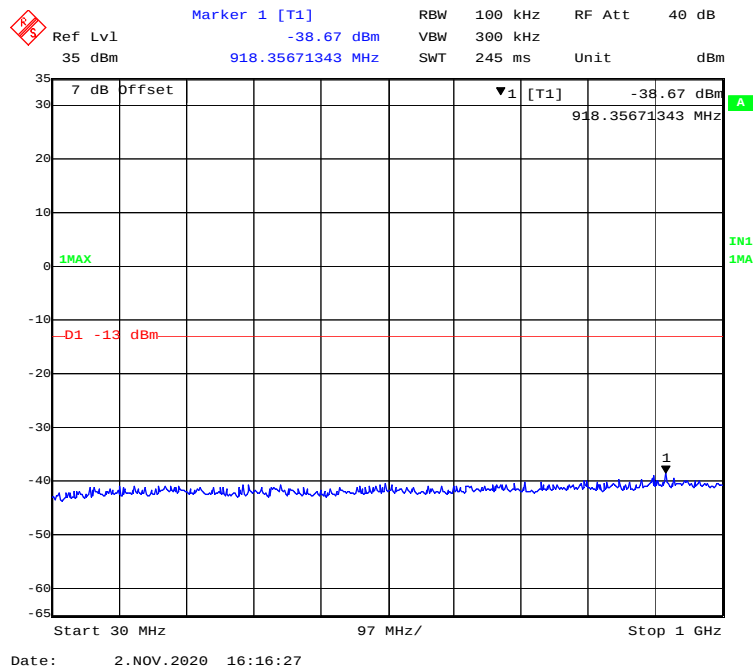
30 MHz - 1 GHz (20 MHz, QPSK, High Channel)



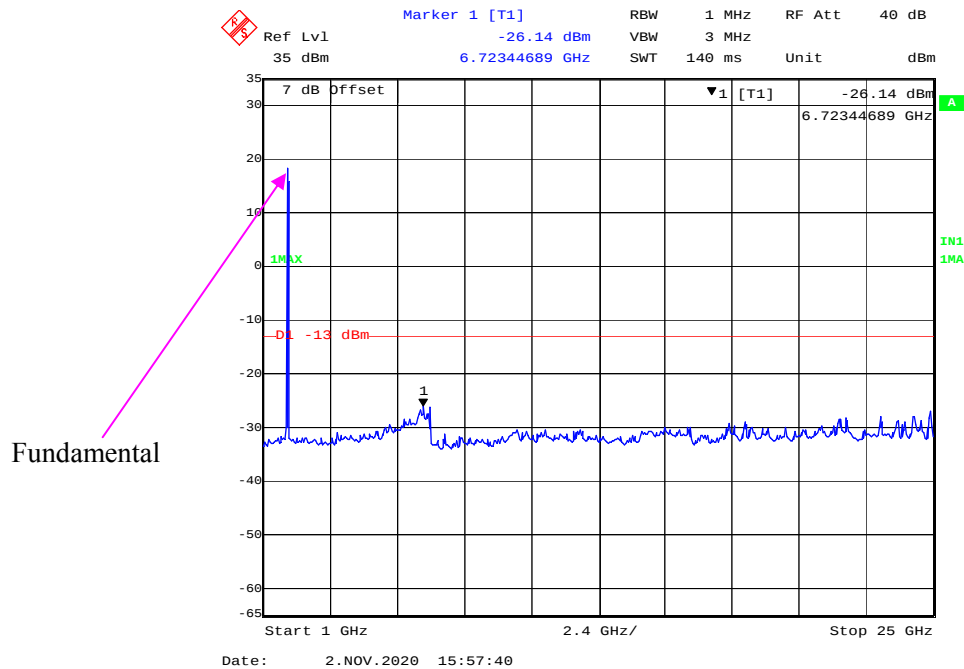
1 GHz – 25 GHz (20 MHz, QPSK, High Channel)



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

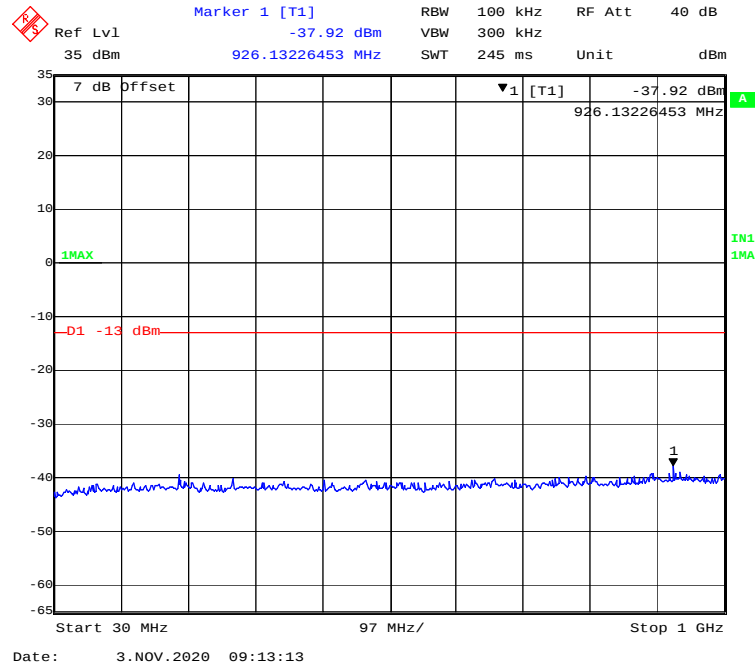


1 GHz – 25 GHz (20 MHz, 16-QAM, High Channel)

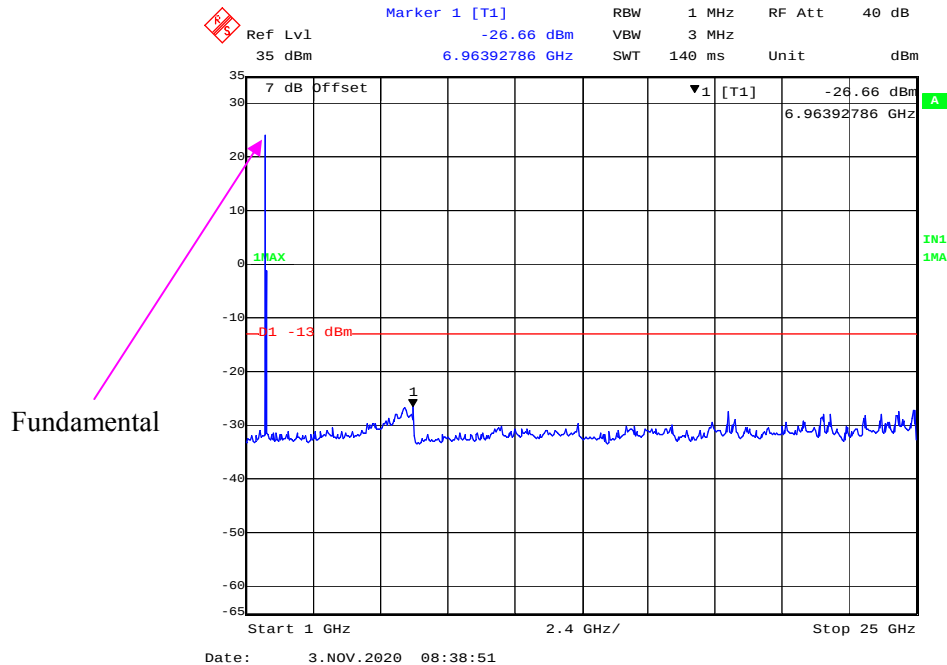


LTE Band 4:

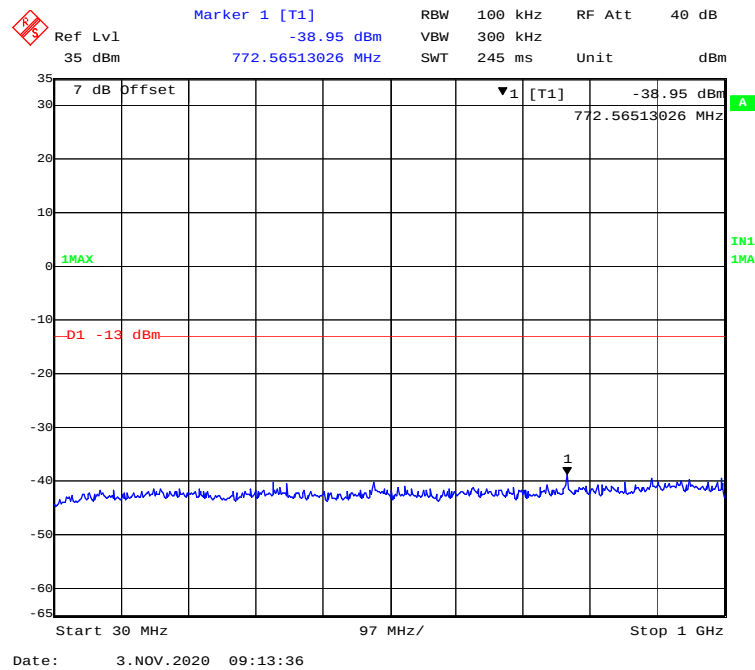
30 MHz - 1 GHz (1.4 MHz, QPSK, Low Channel)



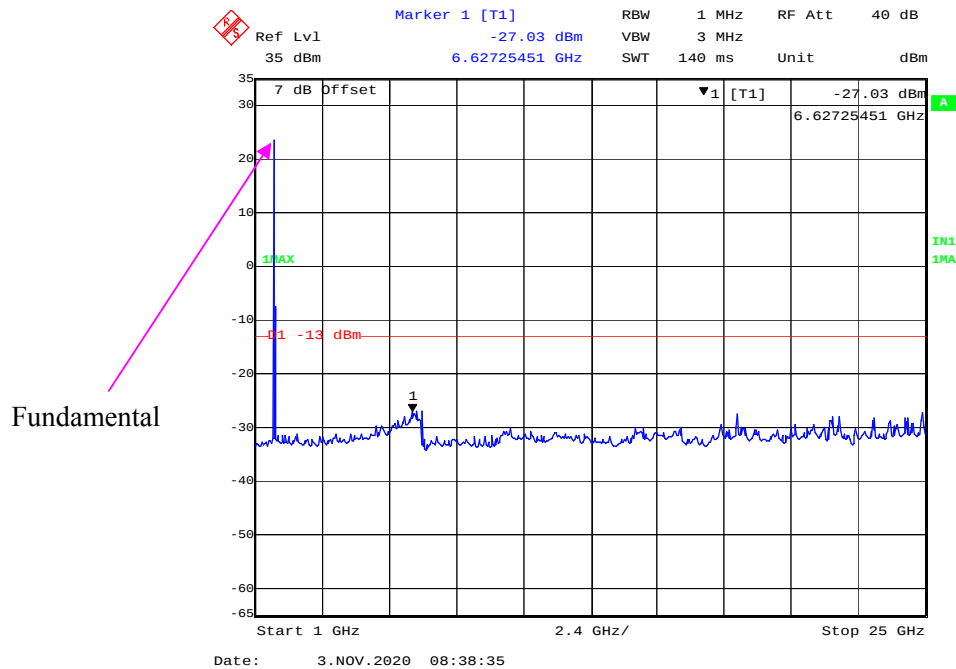
1 GHz – 25 GHz (1.4 MHz, QPSK, Low Channel)



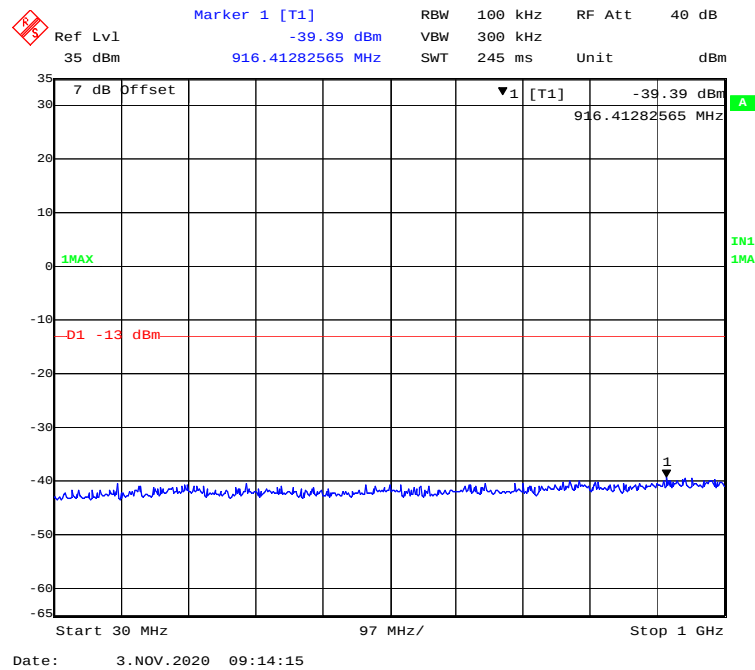
30 MHz - 1 GHz (1.4 MHz, 16-QAM, Low Channel)



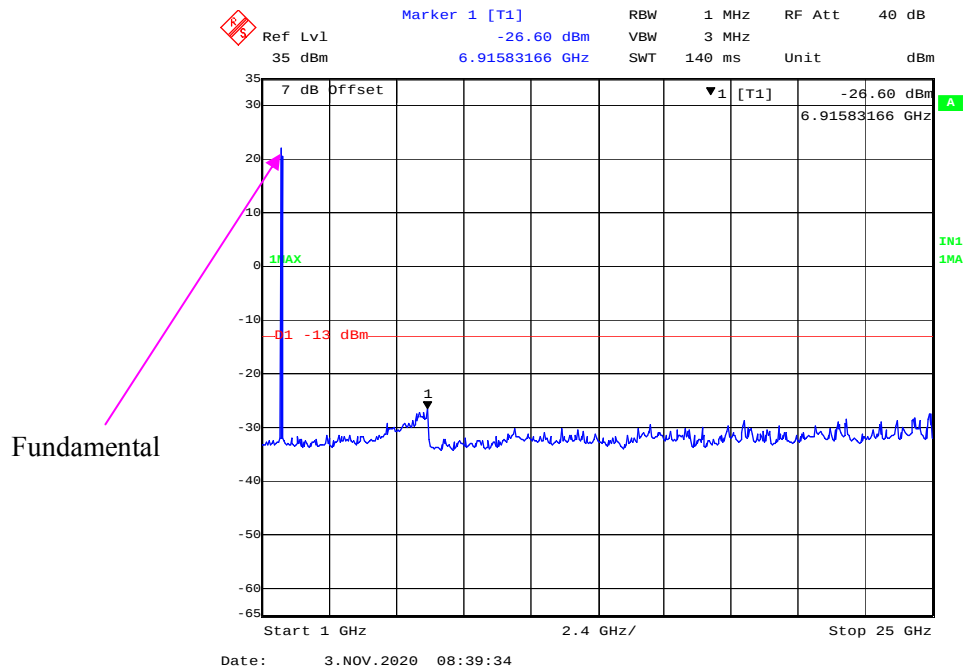
1 GHz – 25 GHz (1.4 MHz, 16-QAM, Low Channel)

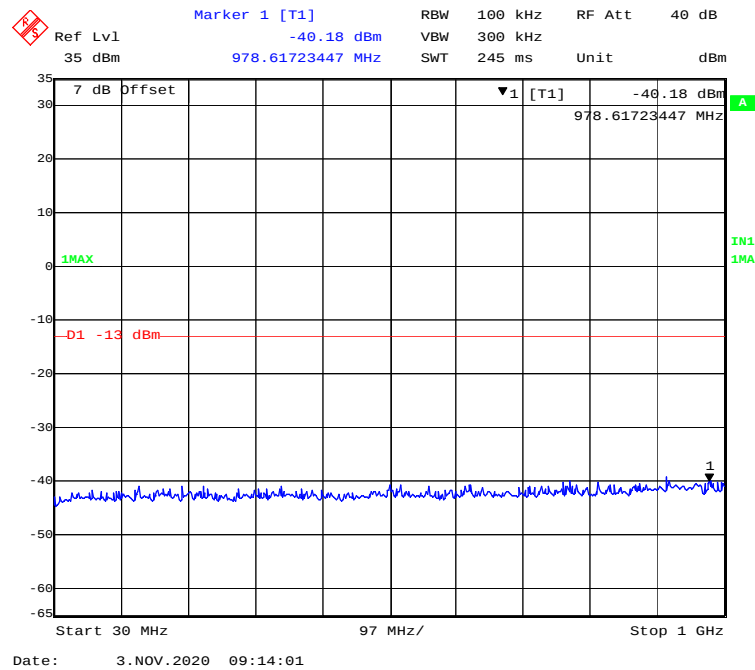
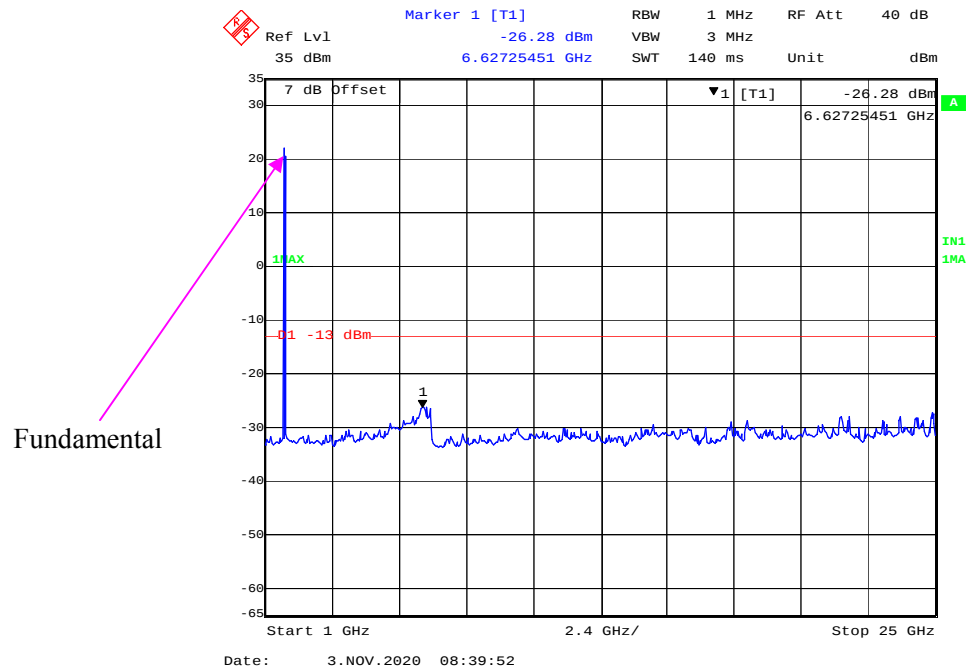


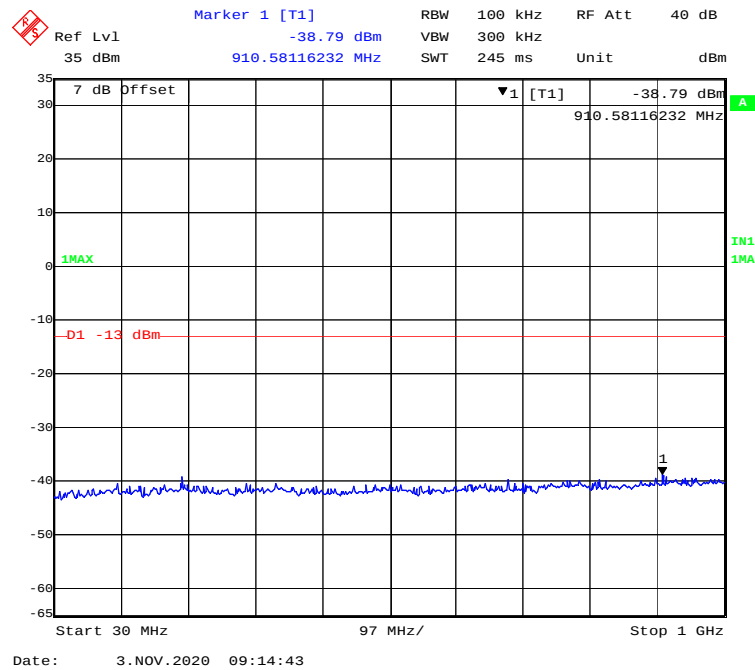
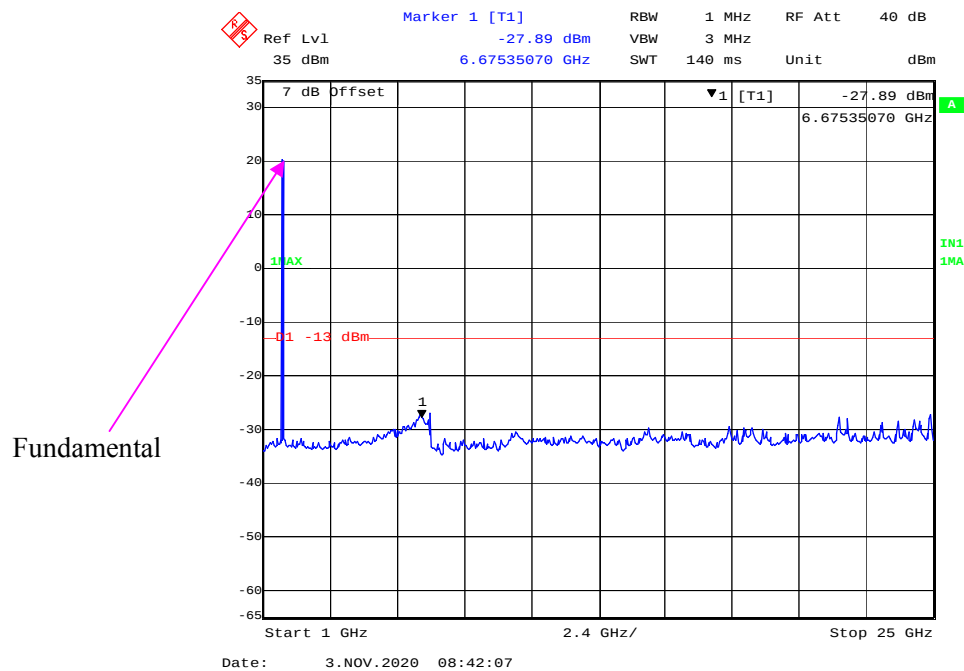
30 MHz - 1 GHz (3 MHz, QPSK, Low Channel)



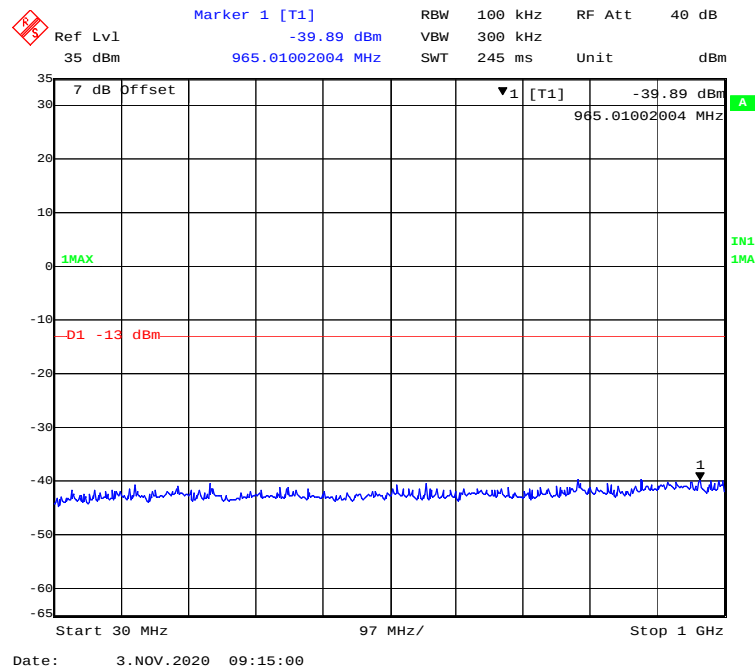
1 GHz – 25 GHz (3 MHz, QPSK, Low Channel)



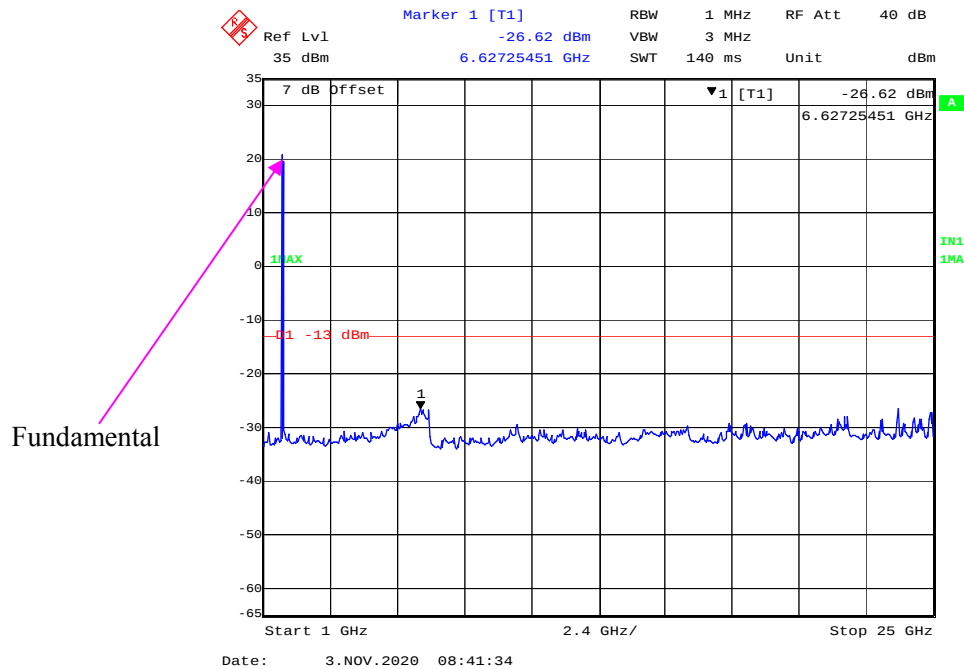
30 MHz - 1 GHz (3 MHz, 16-QAM, Low Channel)**1 GHz – 25 GHz (3 MHz, 16-QAM, Low Channel)**

30 MHz - 1 GHz (5 MHz, QPSK, Low Channel)**1 GHz – 25 GHz (5 MHz, QPSK, Low Channel)**

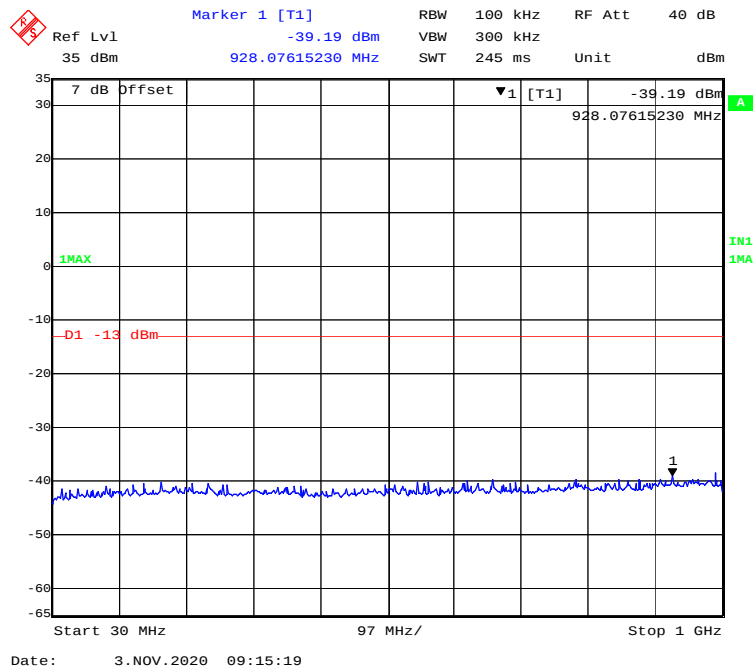
30 MHz - 1 GHz (5 MHz, 16-QAM, Low Channel)



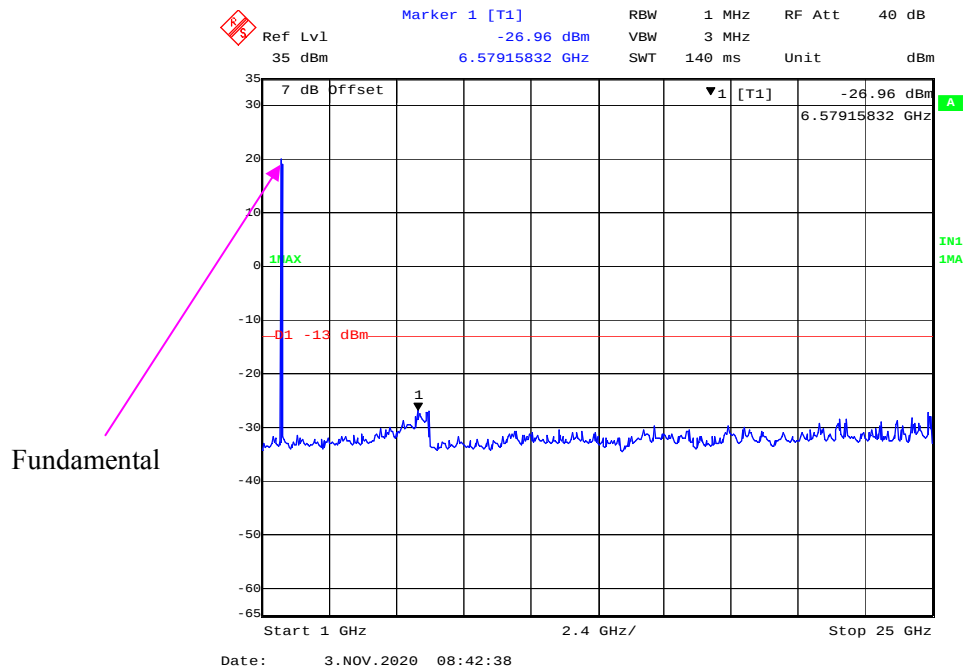
1 GHz – 25 GHz (5 MHz, 16-QAM, Low Channel)



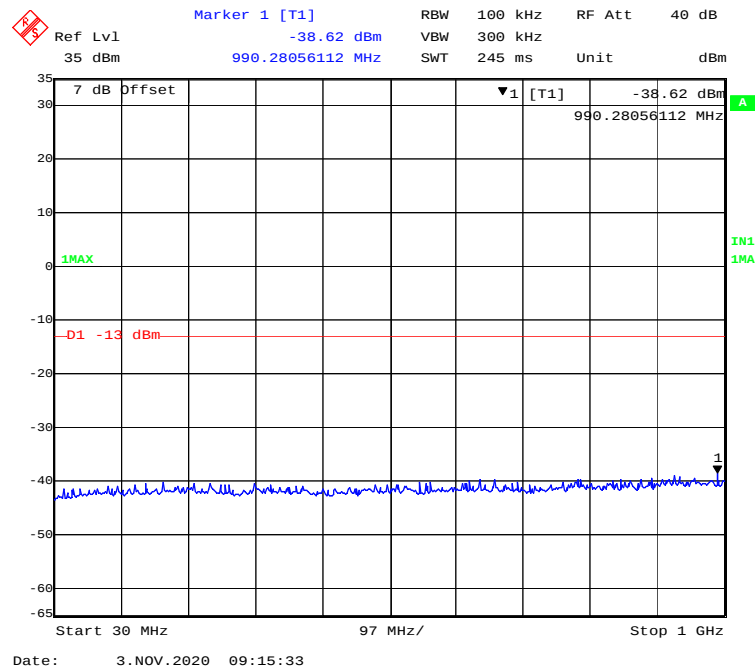
30 MHz - 1 GHz (10 MHz, QPSK, Low Channel)



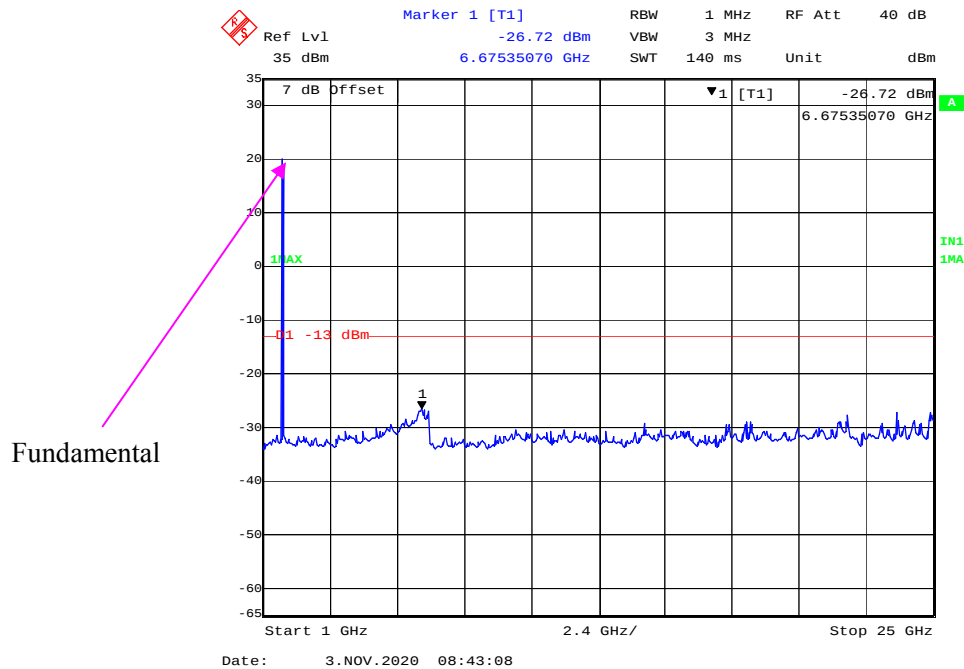
1 GHz – 25 GHz (10 MHz, QPSK, Low Channel)

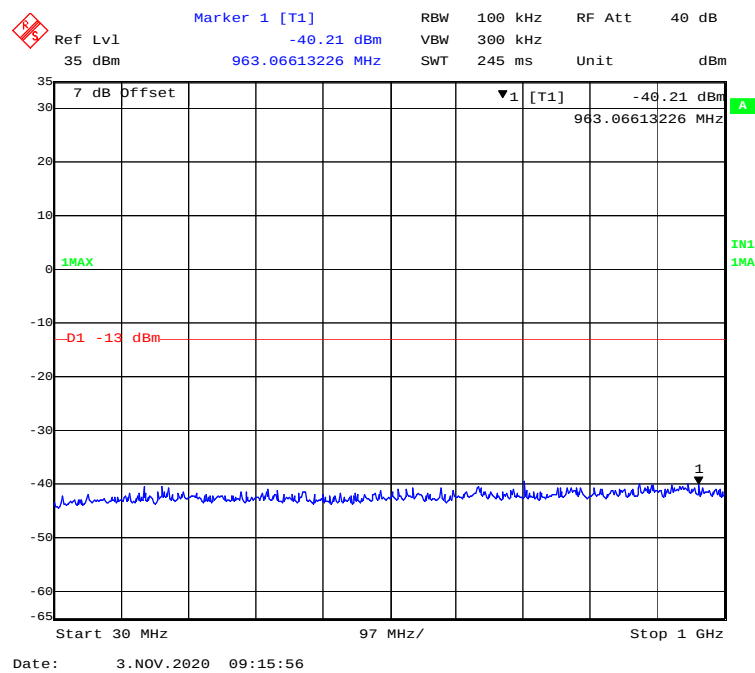
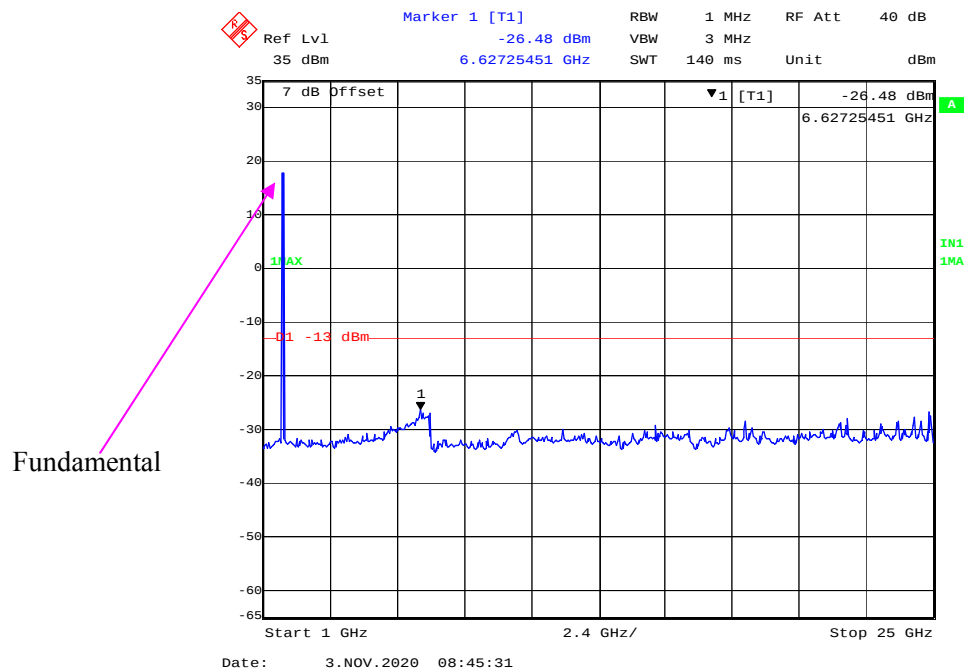


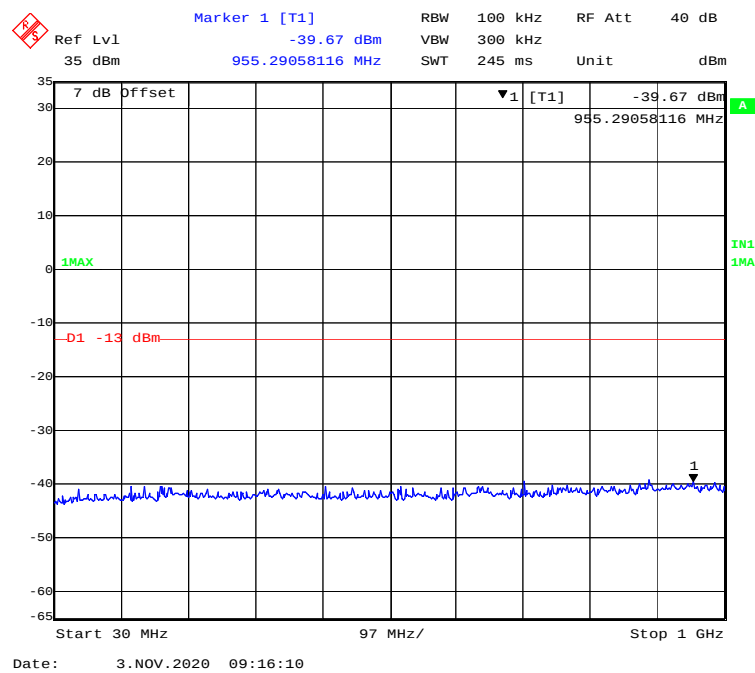
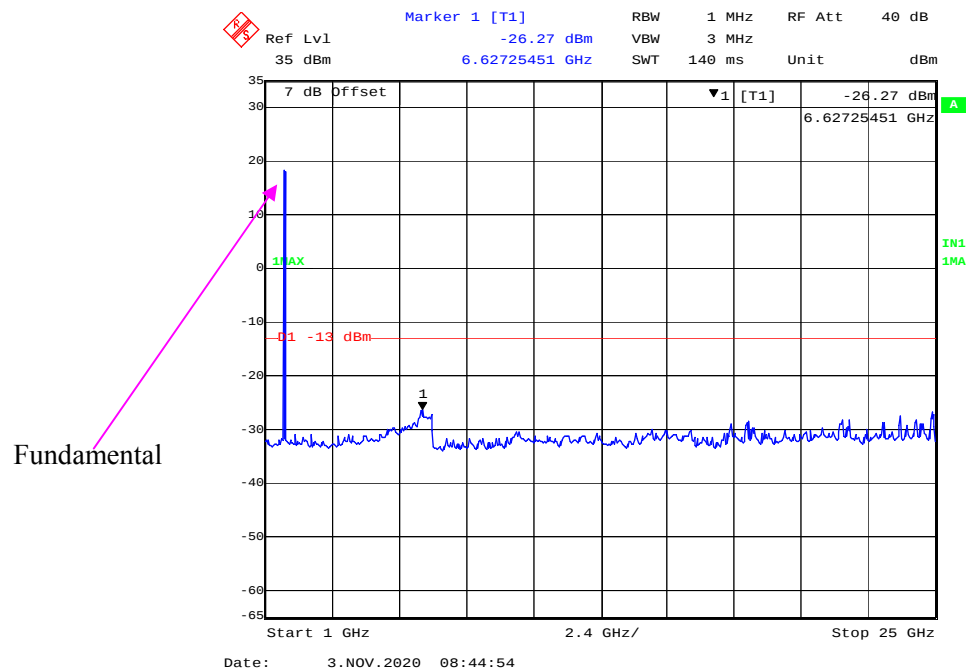
30 MHz - 1 GHz (10 MHz, 16-QAM, Low Channel)



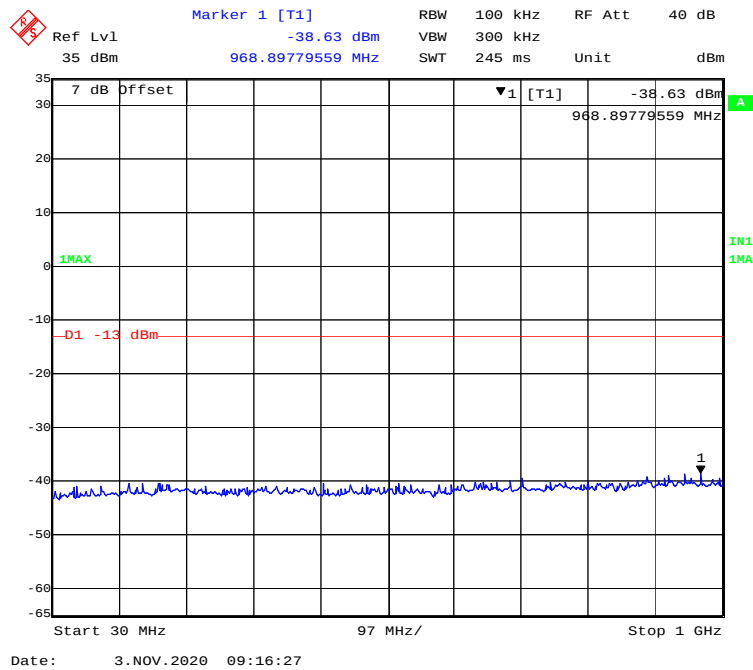
1 GHz – 25 GHz (10 MHz, 16-QAM, Low Channel)



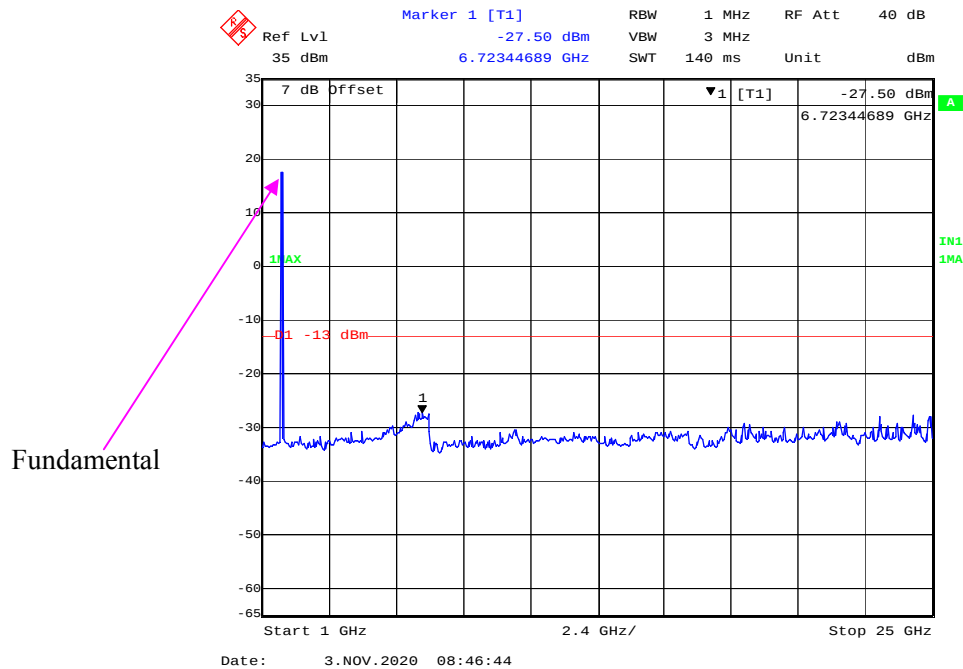
30 MHz - 1 GHz (15 MHz, QPSK, Low Channel)**1 GHz – 25 GHz (15 MHz, QPSK, Low Channel)**

30 MHz - 1 GHz (15 MHz, 16-QAM, Low Channel)**1 GHz – 25 GHz (15 MHz, 16-QAM, Low Channel)**

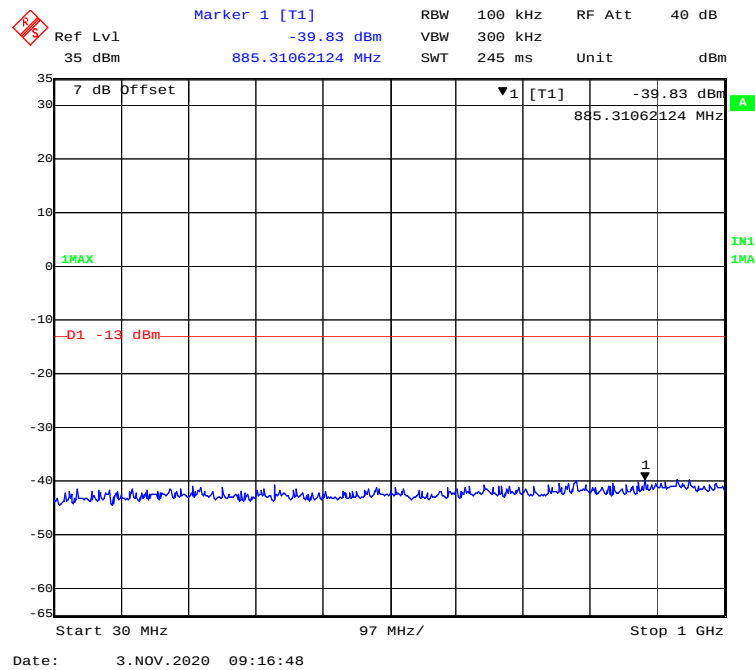
30 MHz - 1 GHz (20 MHz, QPSK, Low Channel)



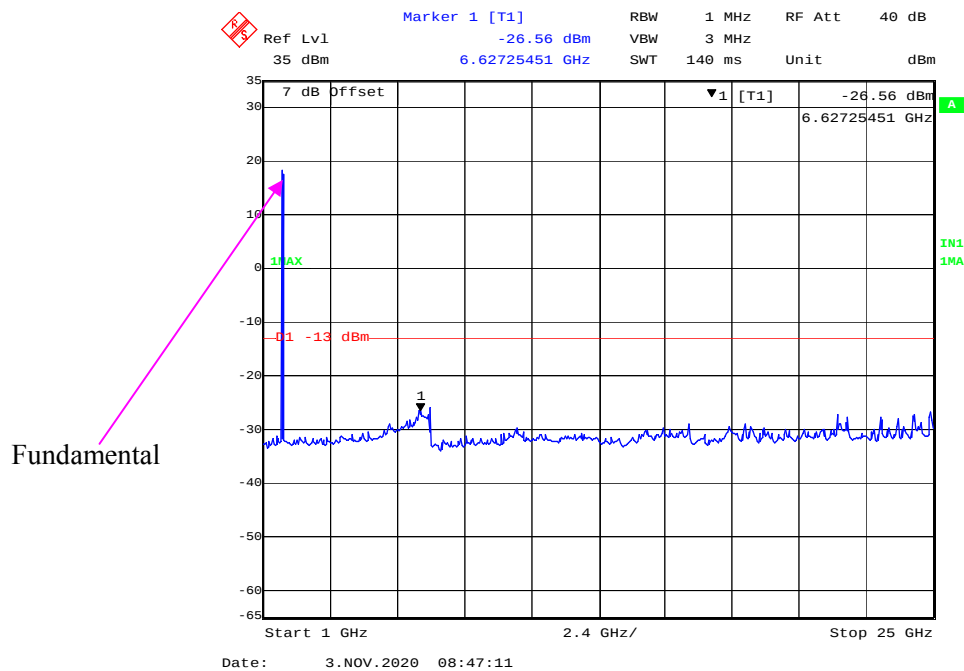
1 GHz – 25 GHz (20 MHz, QPSK, Low Channel)



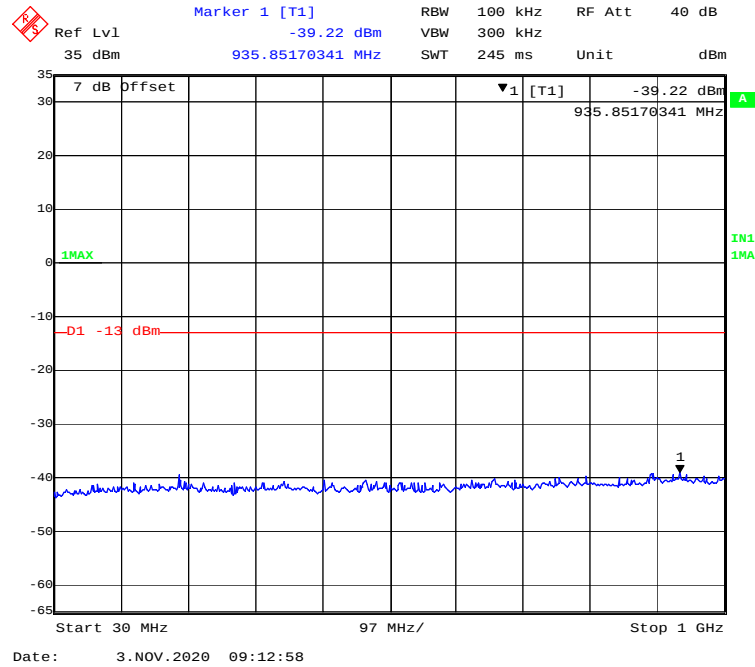
30 MHz - 1 GHz (20 MHz, 16-QAM, Low Channel)



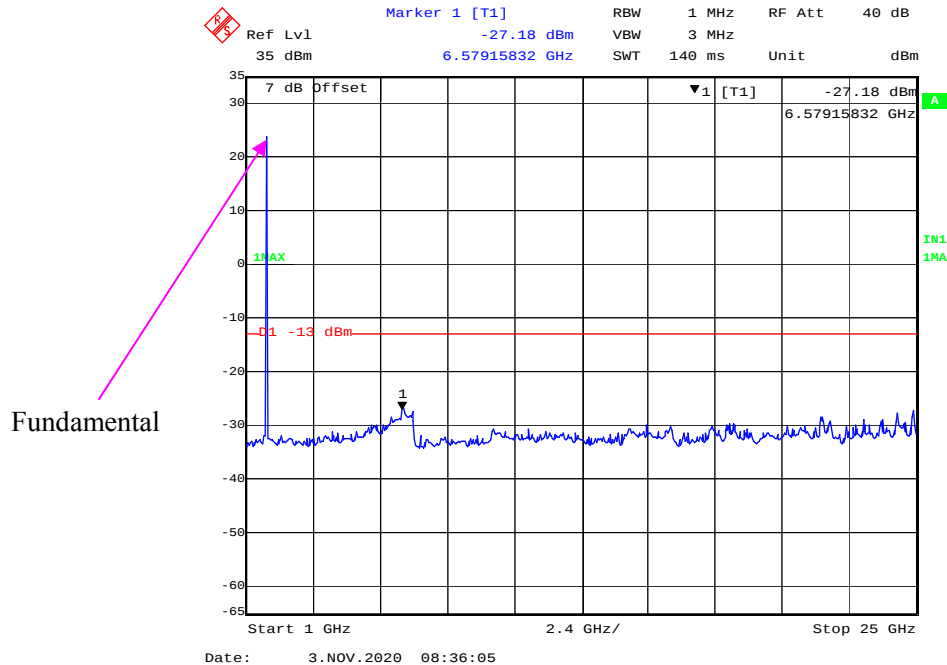
1 GHz – 25 GHz (20 MHz, 16-QAM, Low Channel)



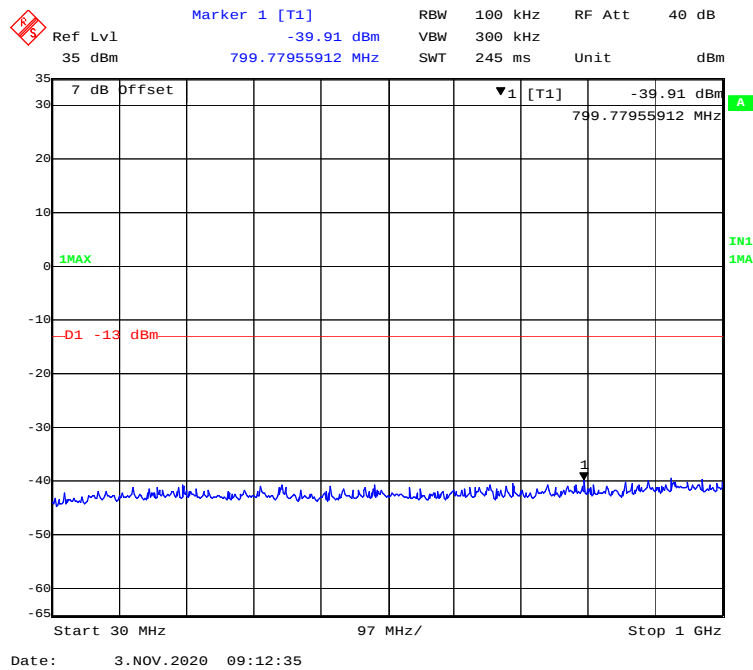
30 MHz - 1 GHz (1.4 MHz, QPSK, Middle Channel)



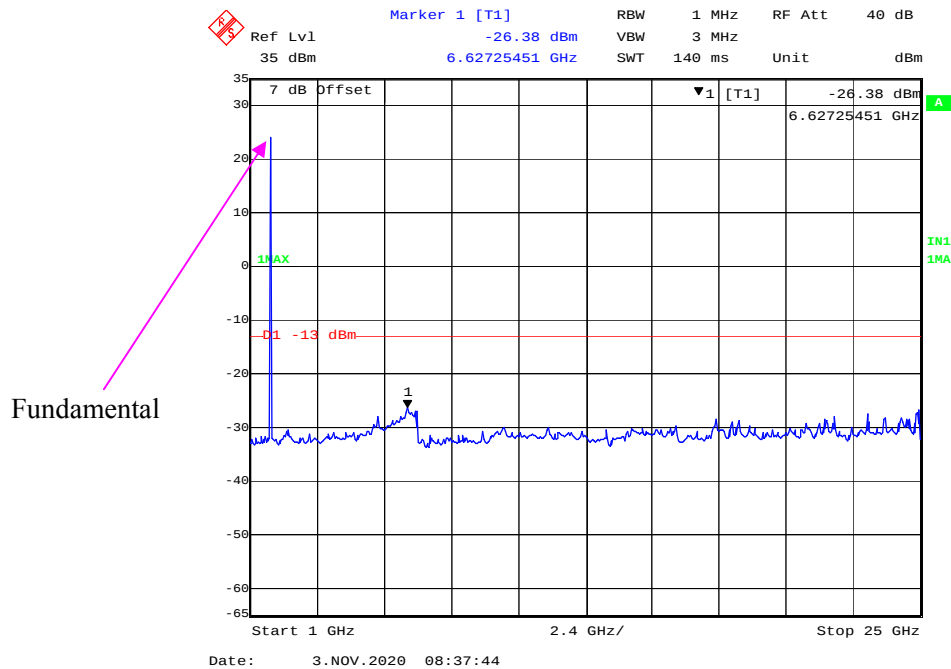
1 GHz – 25 GHz (1.4 MHz, QPSK, Middle Channel)



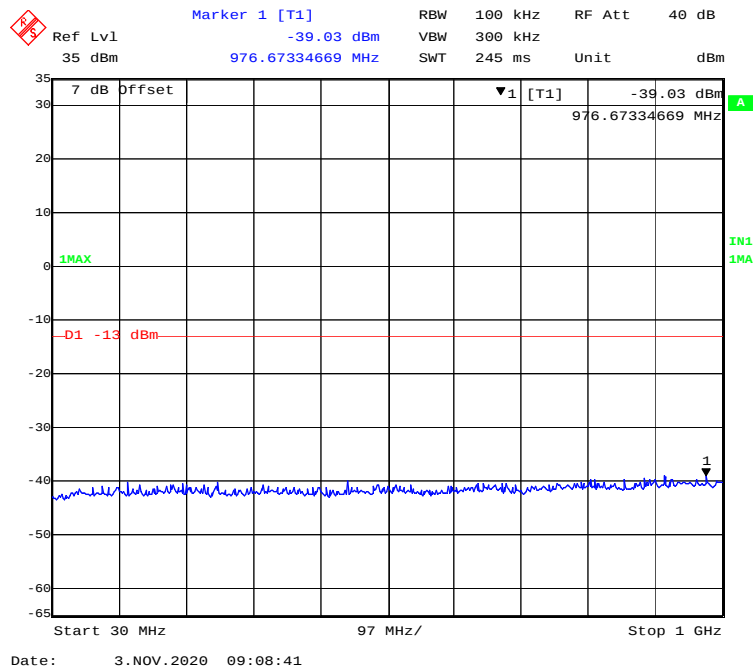
30 MHz - 1 GHz (1.4 MHz, 16-QAM, Middle Channel)



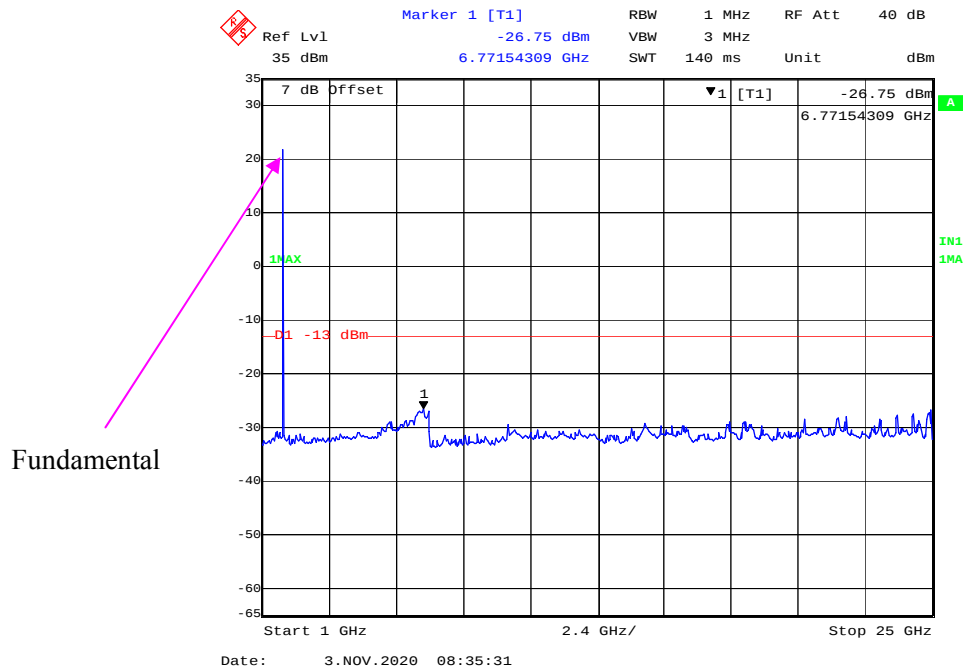
1 GHz – 25 GHz (1.4 MHz, 16-QAM, Middle Channel)



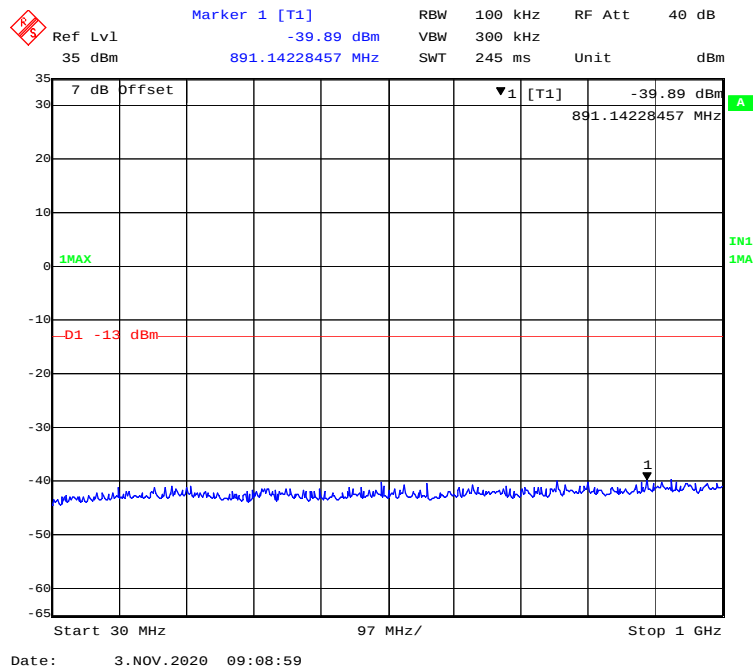
30 MHz - 1 GHz (3 MHz, QPSK, Middle Channel)



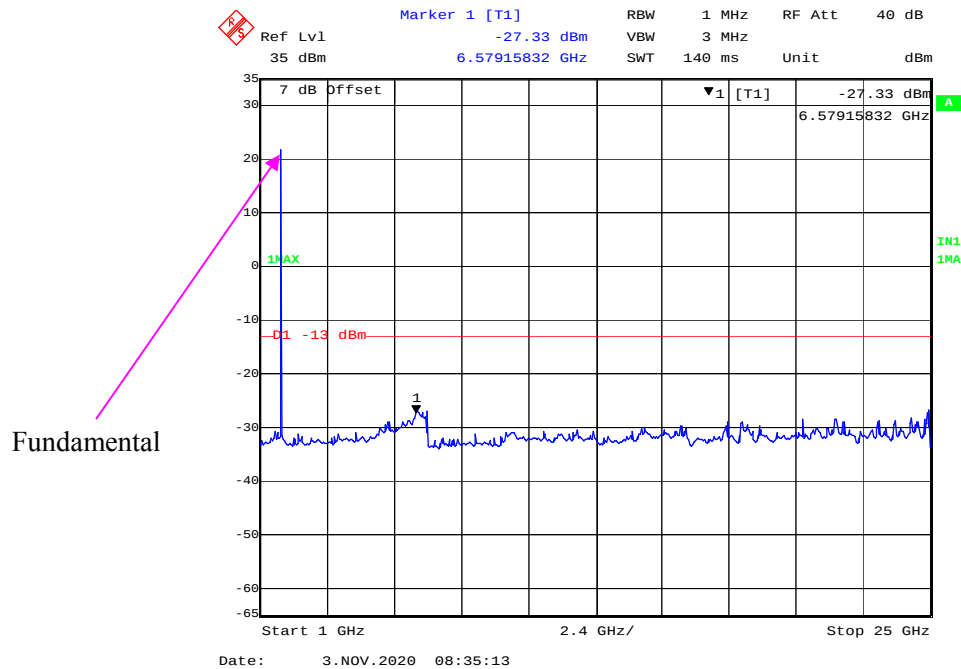
1 GHz – 25 GHz (3 MHz, QPSK, Middle Channel)



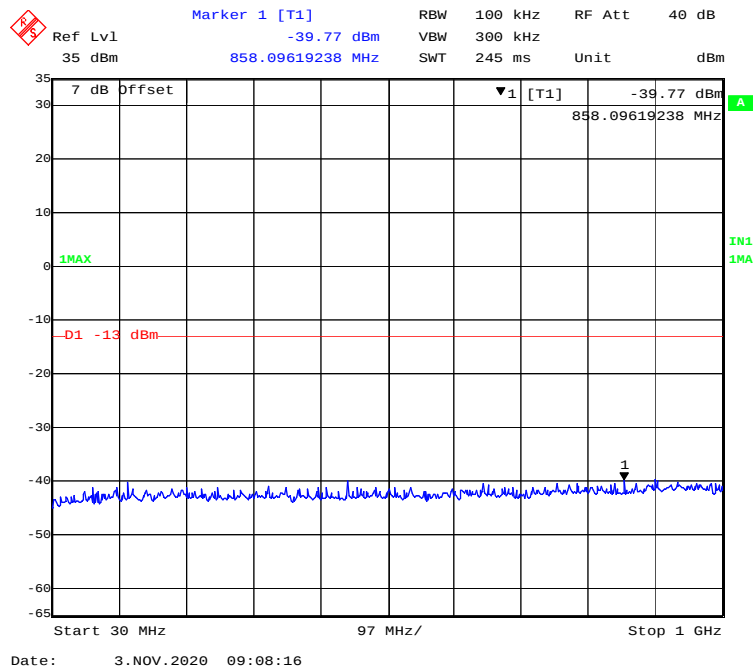
30 MHz - 1 GHz (3 MHz, 16-QAM, Middle Channel)



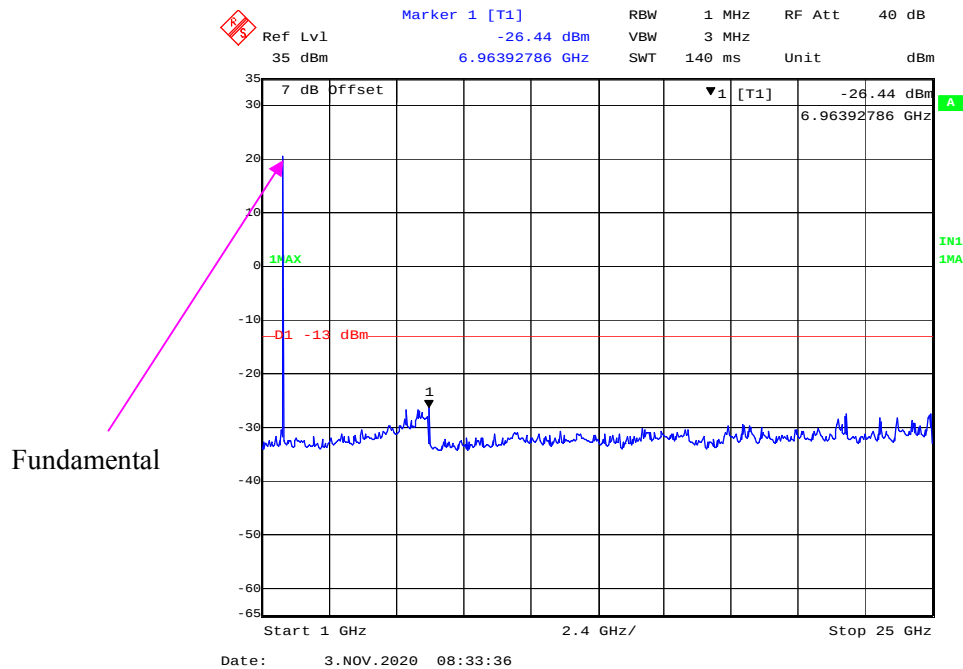
1 GHz – 25 GHz (3 MHz, 16-QAM, Middle Channel)



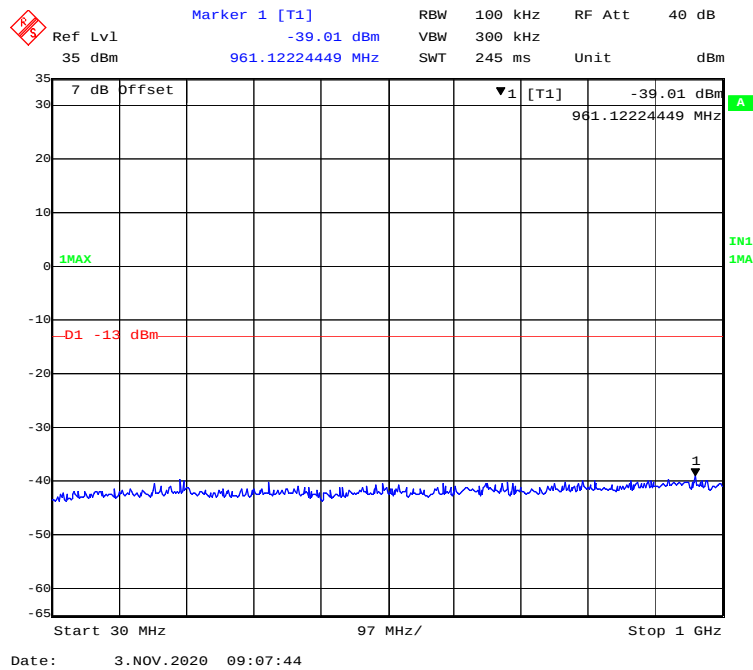
30 MHz - 1 GHz (5 MHz, QPSK, Middle Channel)



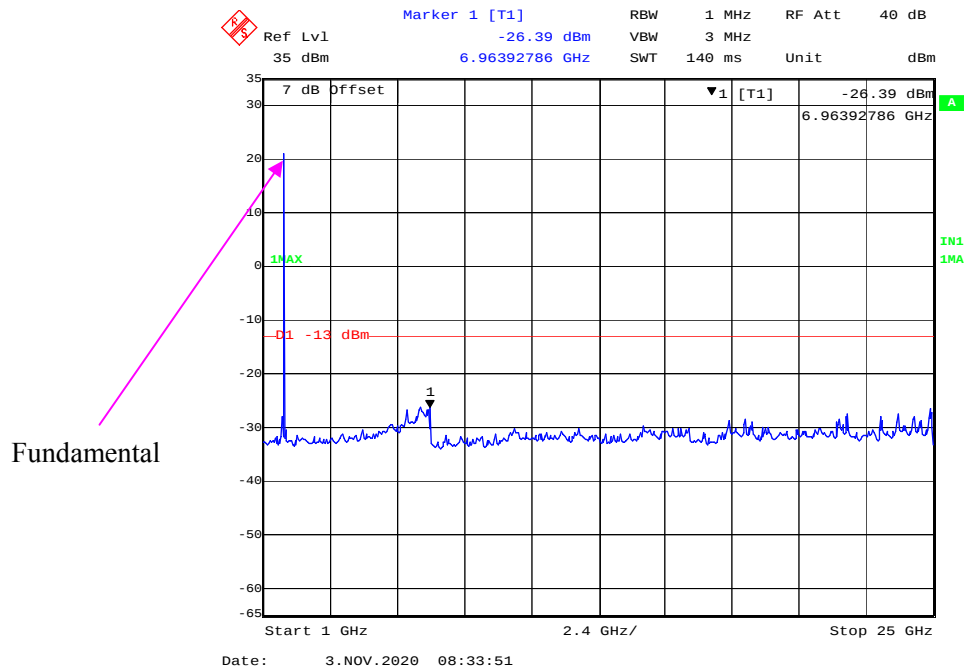
1 GHz – 25 GHz (5 MHz, QPSK, Middle Channel)



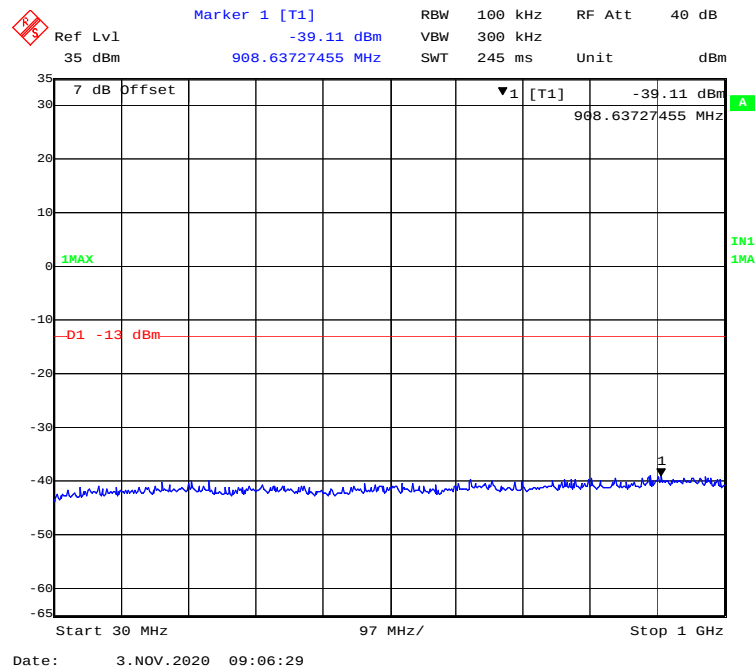
30 MHz - 1 GHz (5 MHz, 16-QAM, Middle Channel)



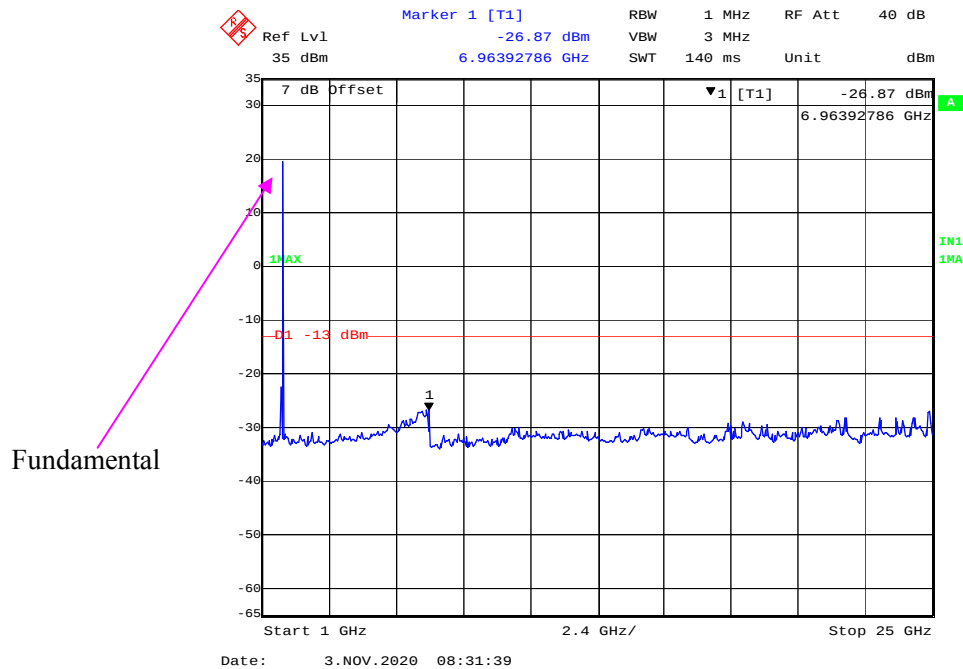
1 GHz – 25 GHz (5 MHz, 16-QAM, Middle Channel)



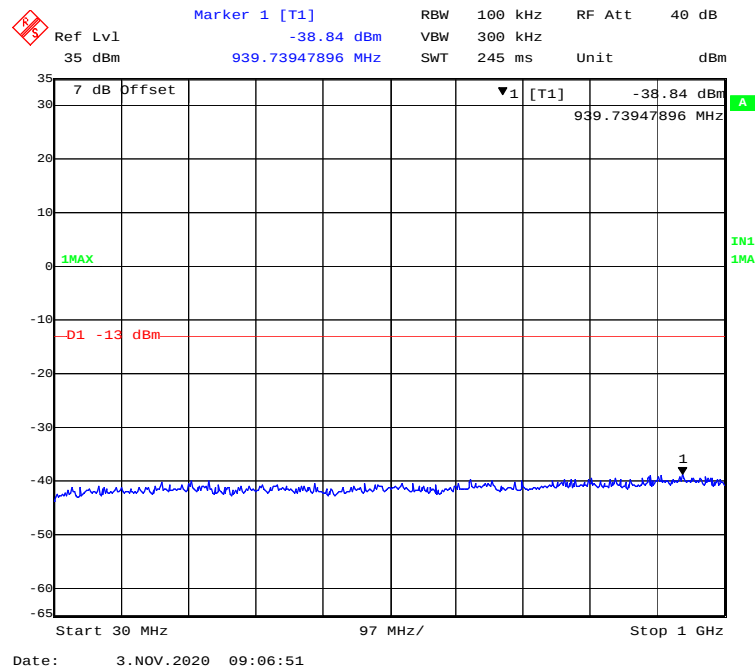
30 MHz - 1 GHz (10 MHz, QPSK, Middle Channel)



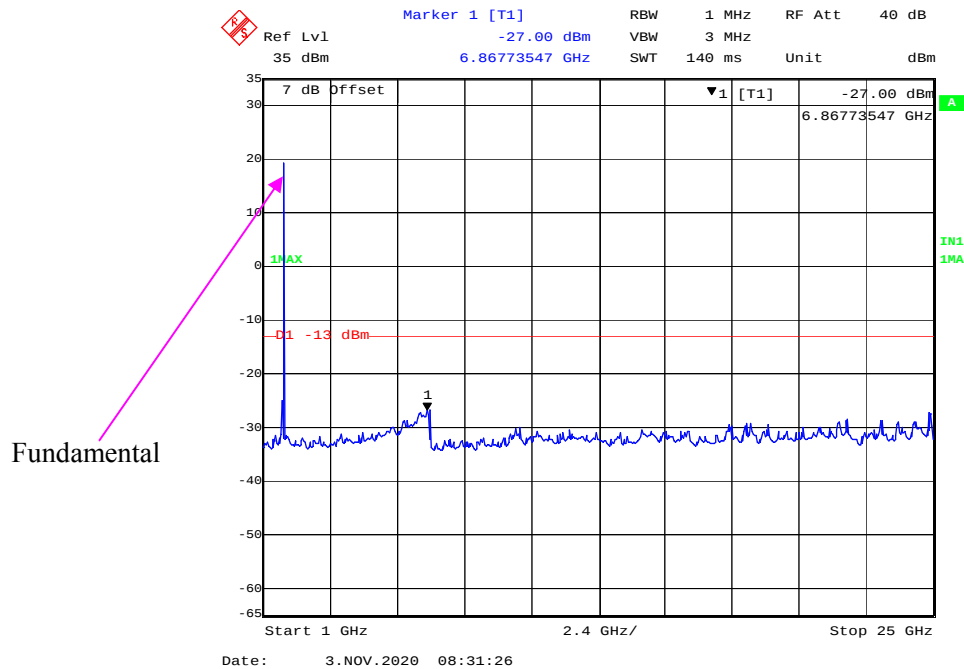
1 GHz – 25 GHz (10 MHz, QPSK, Middle Channel)

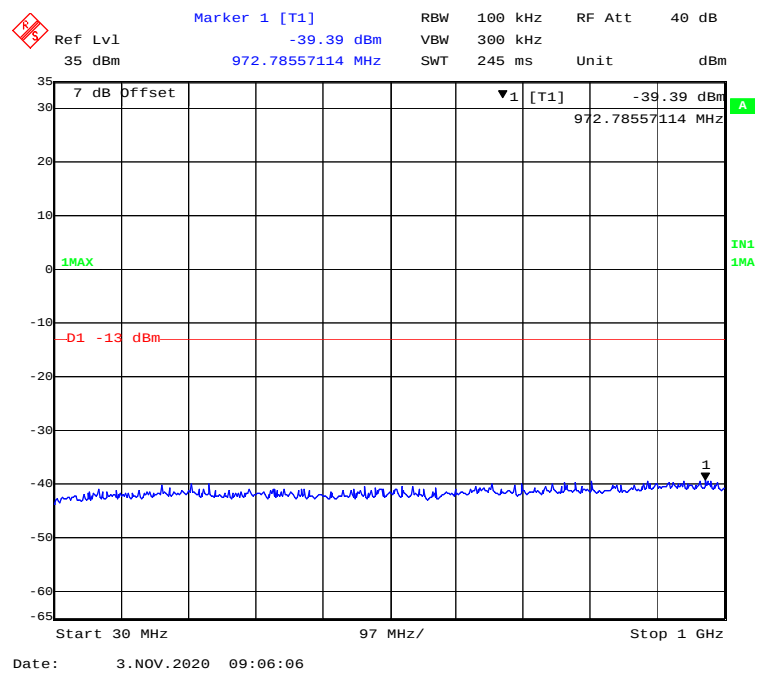
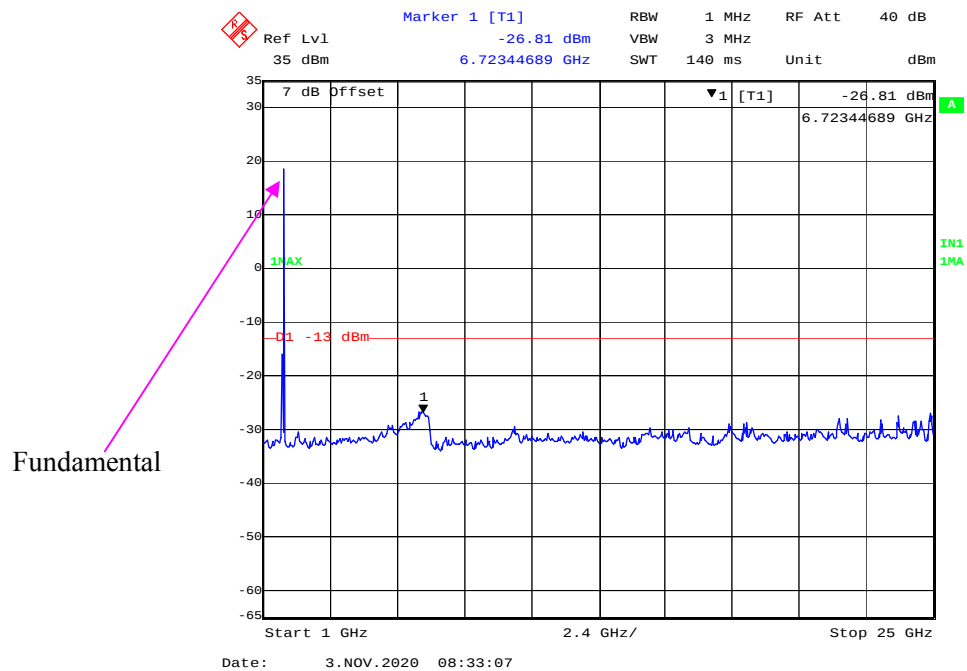


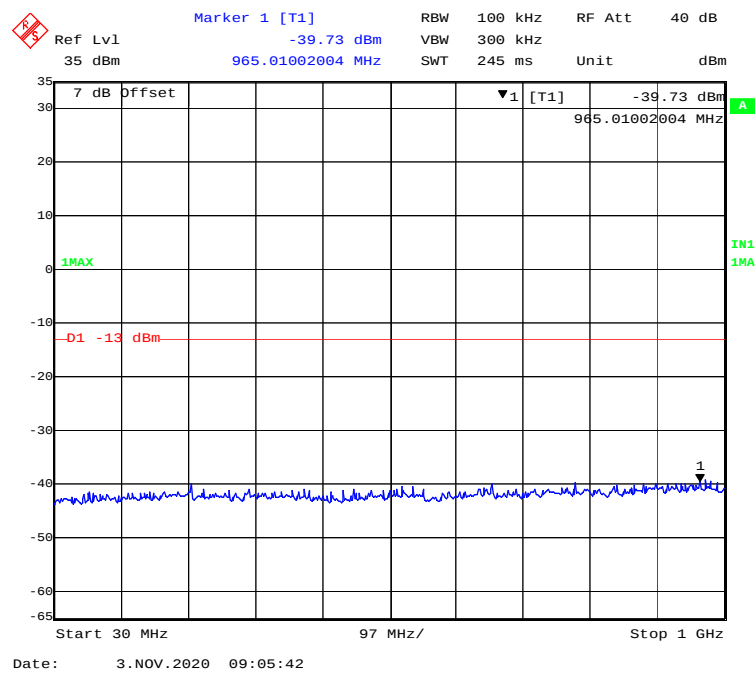
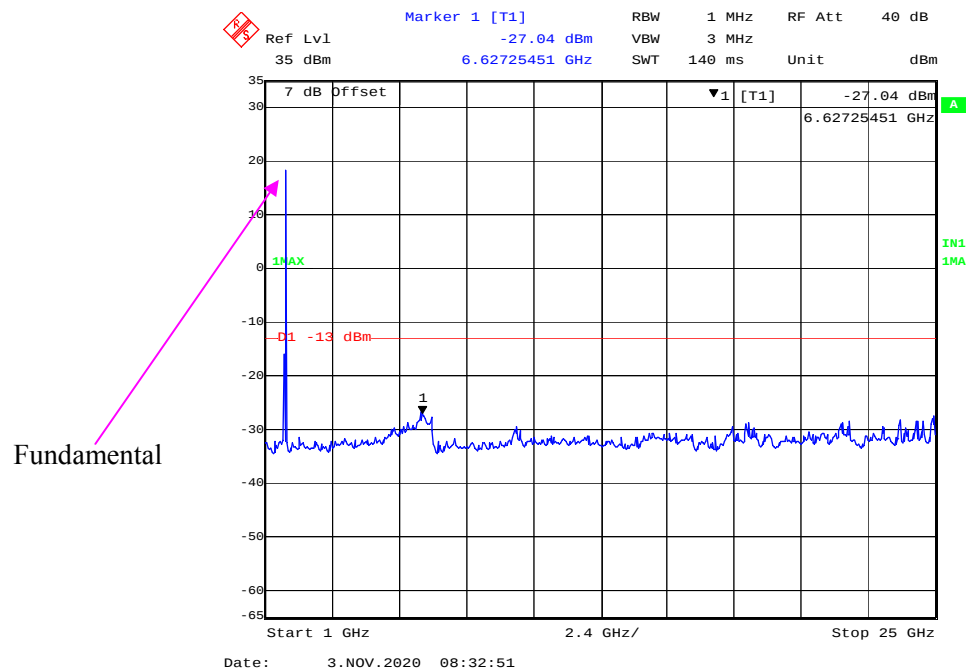
30 MHz - 1 GHz (10 MHz, 16-QAM, Middle Channel)



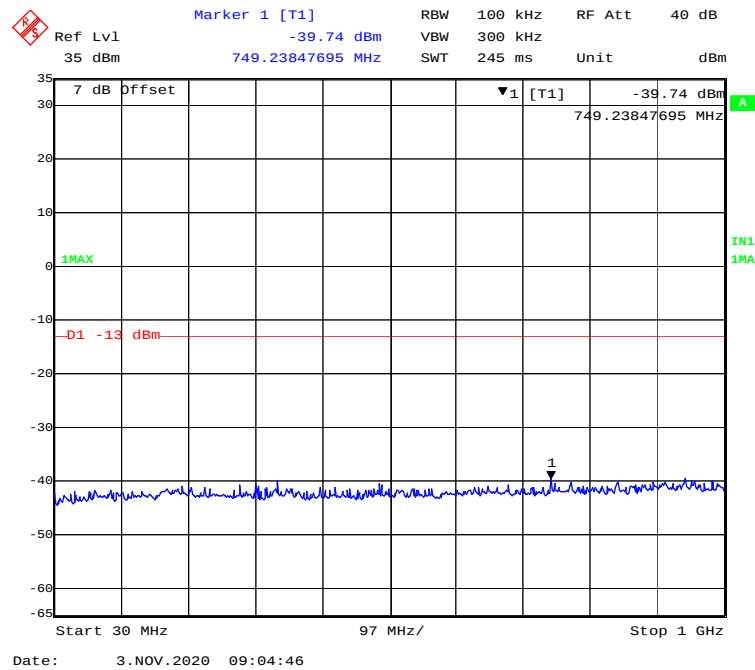
1 GHz – 25 GHz (10 MHz, 16-QAM, Middle Channel)



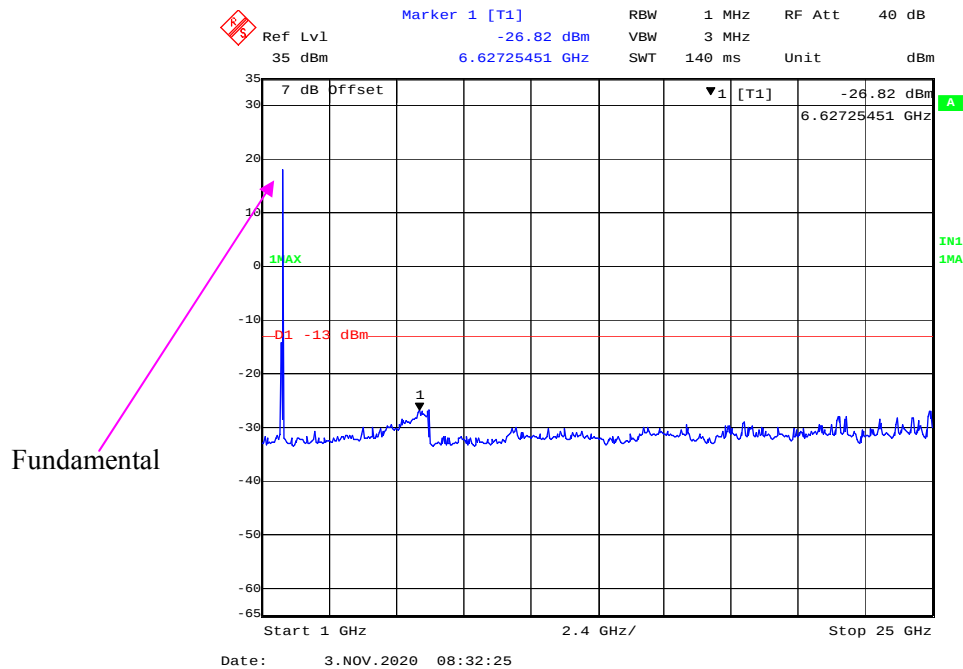
30 MHz - 1 GHz (15 MHz, QPSK, Middle Channel)**1 GHz – 25 GHz (15 MHz, QPSK, Middle Channel)**

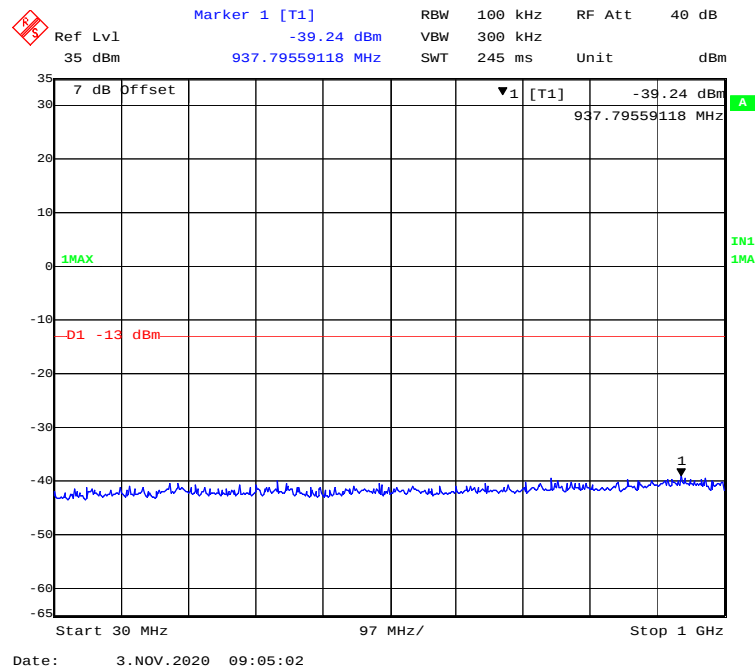
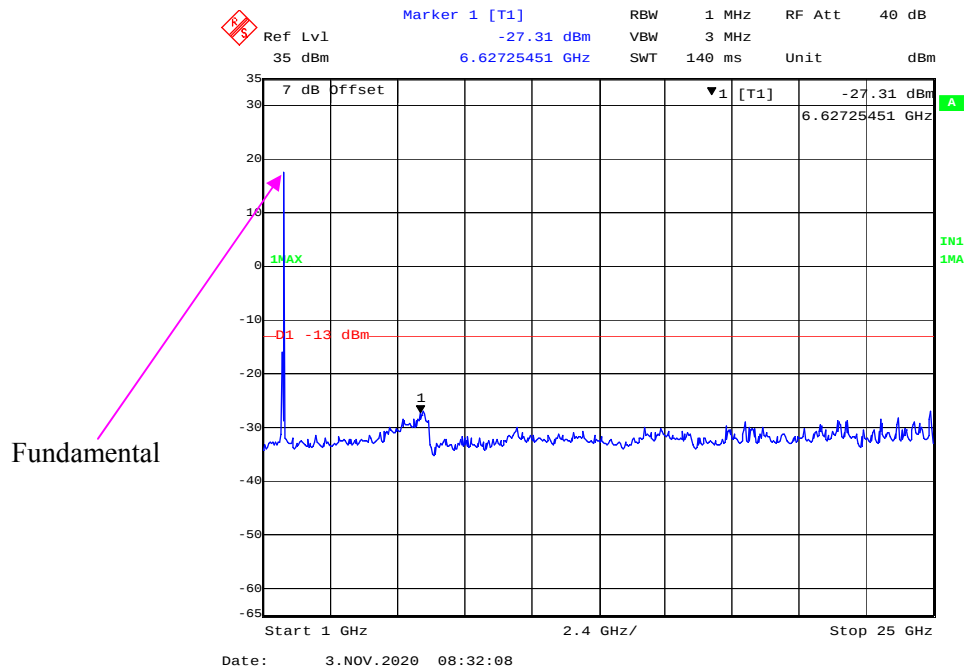
30 MHz - 1 GHz (15 MHz, 16-QAM, Middle Channel)**1 GHz – 25 GHz (15 MHz, 16-QAM, Middle Channel)**

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

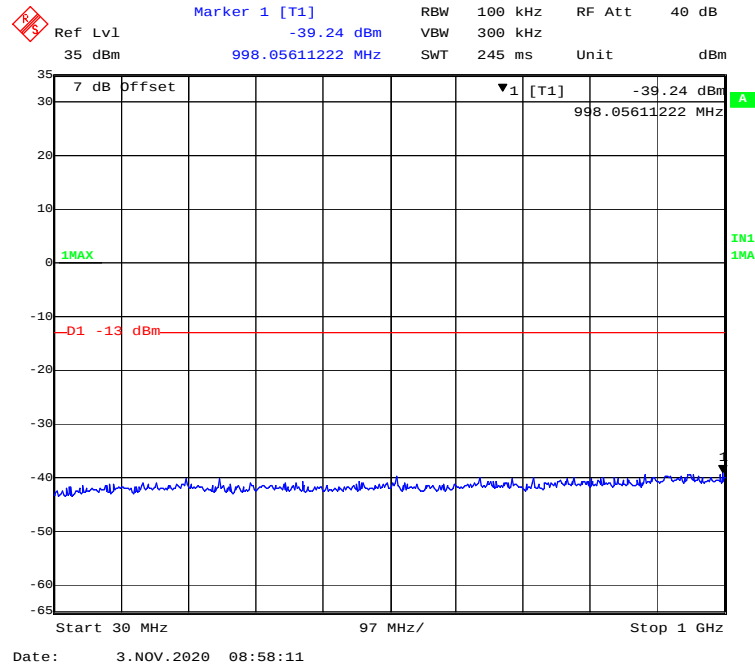


1 GHz – 25 GHz (20 MHz, QPSK, Middle Channel)

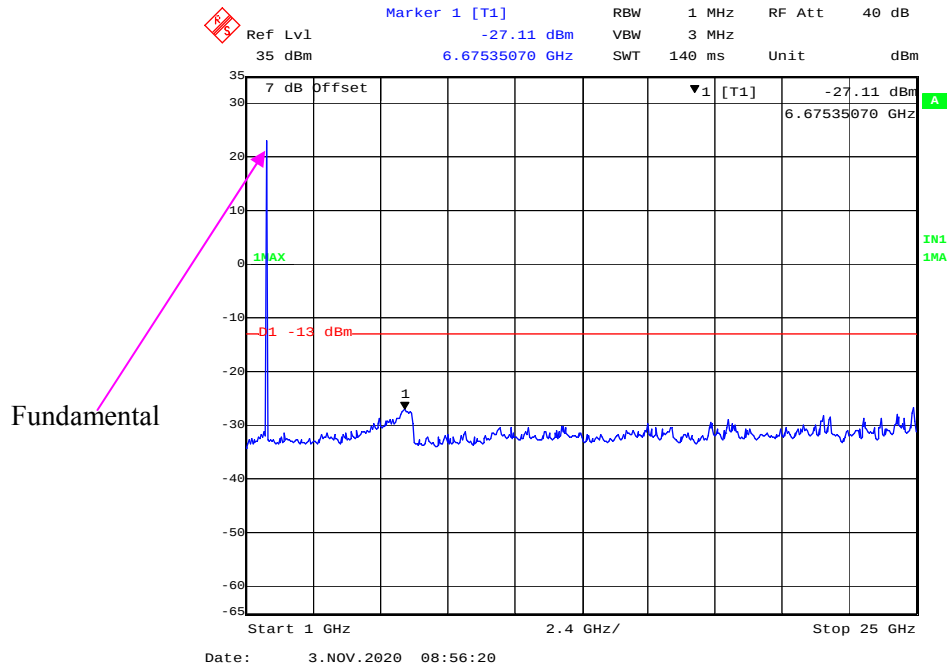


30 MHz - 1 GHz (20 MHz, 16-QAM, Middle Channel)**1 GHz – 25 GHz (20 MHz, 16-QAM, Middle Channel)**

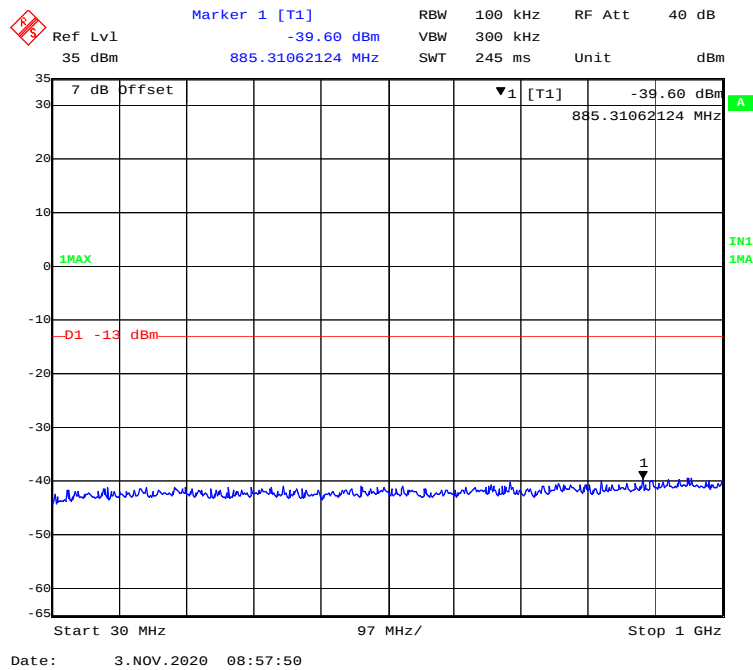
30 MHz - 1 GHz (1.4 MHz, QPSK, High Channel)



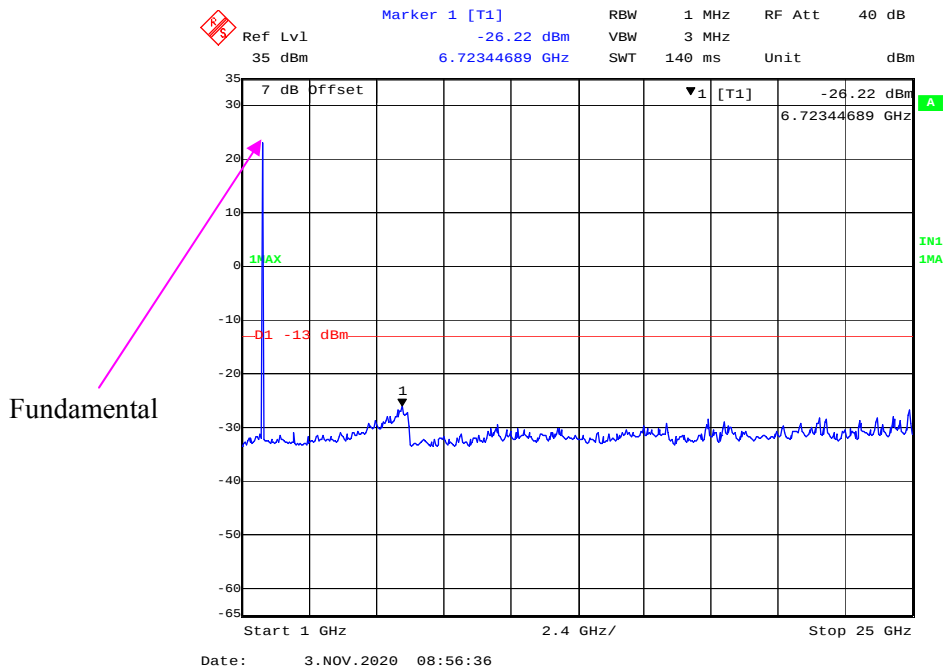
1 GHz – 25 GHz (1.4 MHz, QPSK, High Channel)



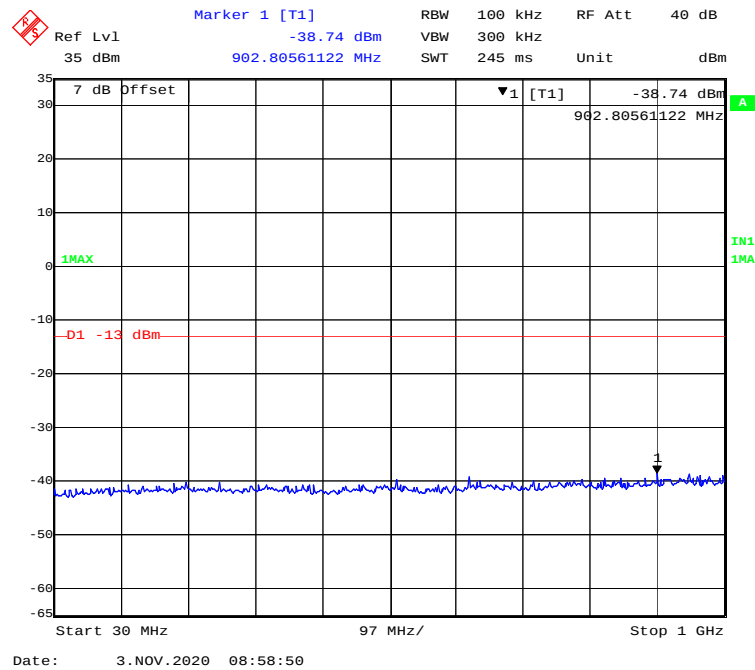
30 MHz - 1 GHz (1.4 MHz, 16-QAM, High Channel)



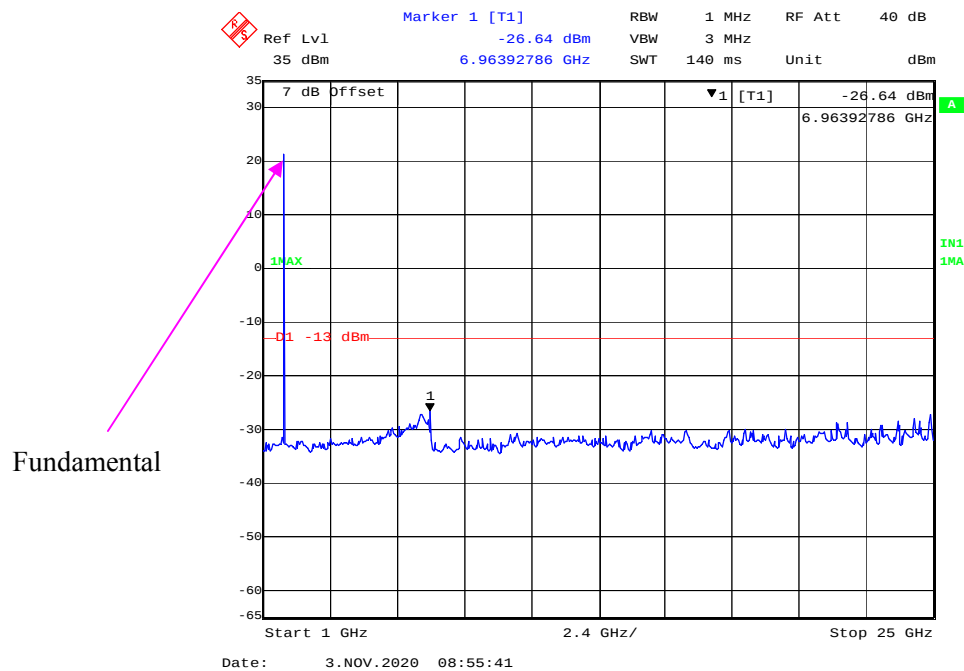
1 GHz – 25 GHz (1.4 MHz, 16-QAM, High Channel)



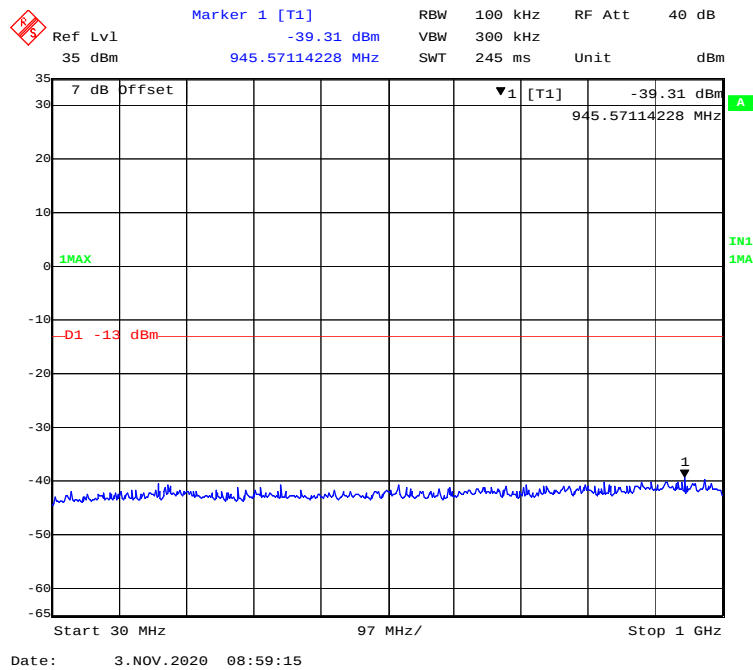
30 MHz - 1 GHz (3 MHz, QPSK, High Channel)



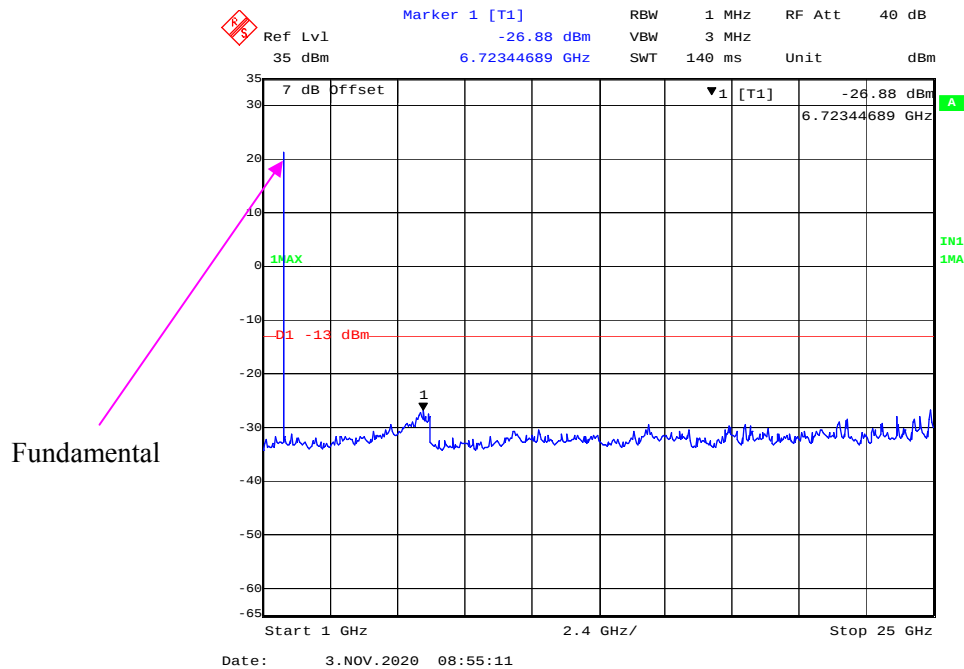
1 GHz – 25 GHz (3 MHz, QPSK, High Channel)



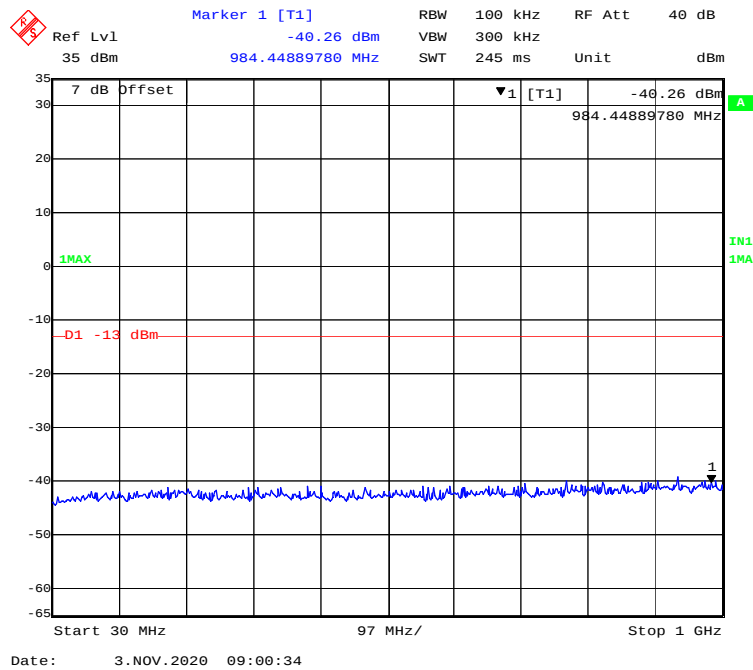
30 MHz - 1 GHz (3 MHz, 16-QAM, High Channel)



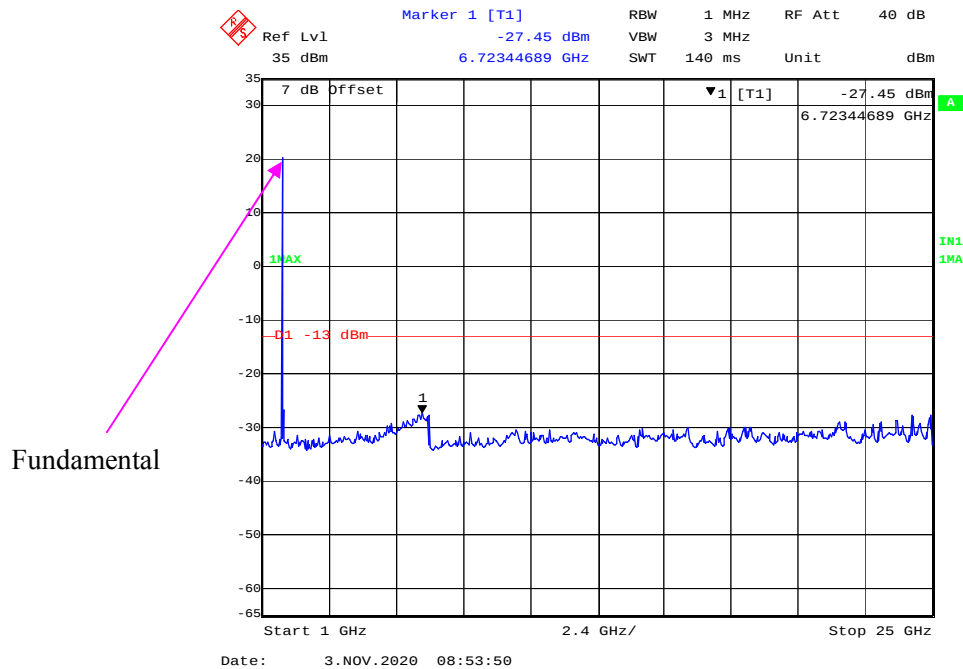
1 GHz – 25 GHz (3 MHz, 16-QAM, High Channel)



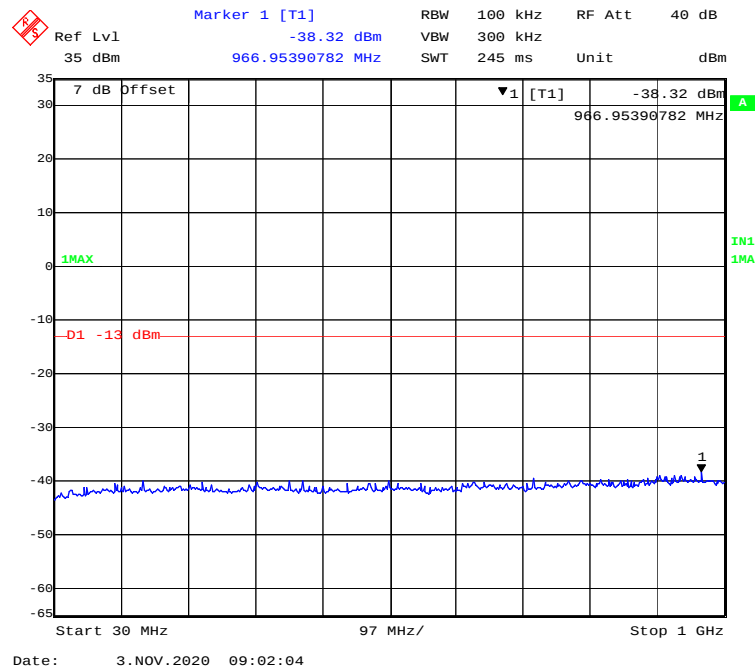
30 MHz - 1 GHz (5 MHz, QPSK, High Channel)



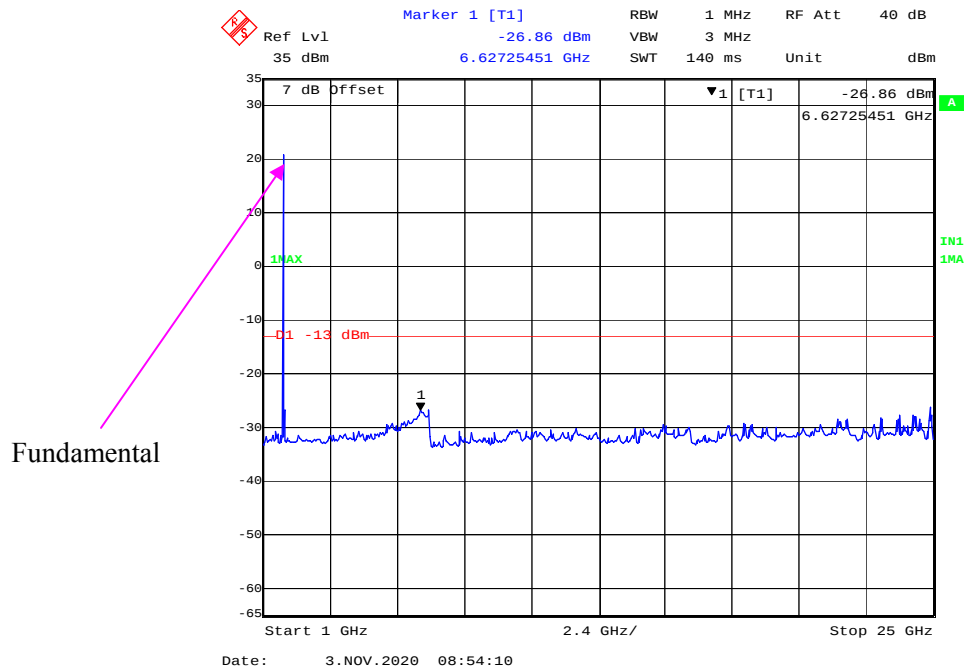
1 GHz – 25 GHz (5 MHz, QPSK, High Channel)



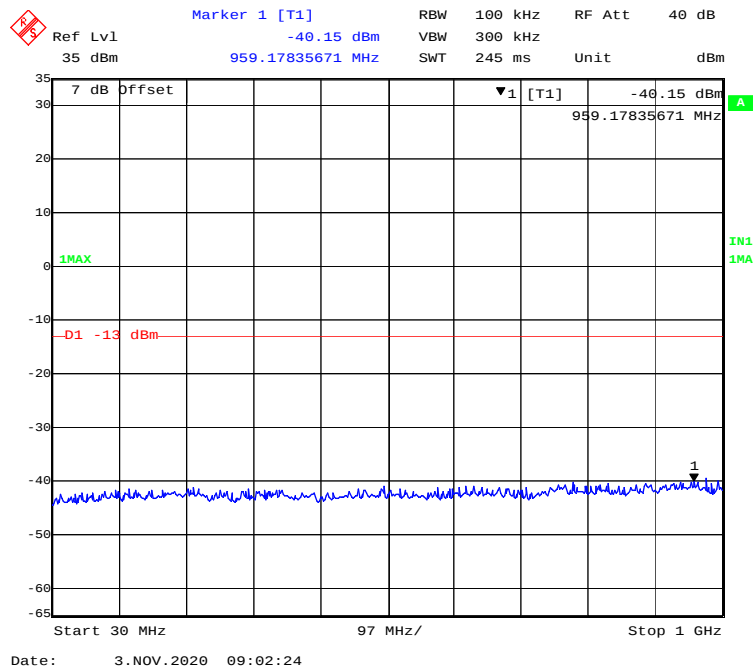
30 MHz - 1 GHz (5 MHz, 16-QAM, High Channel)



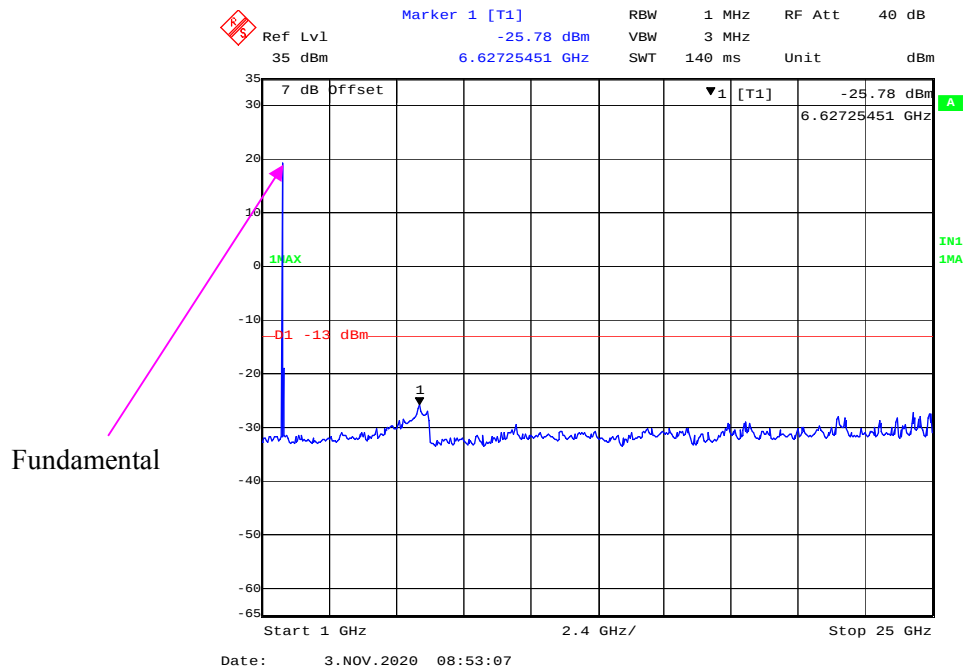
1 GHz – 25 GHz (5 MHz, 16-QAM, High Channel)



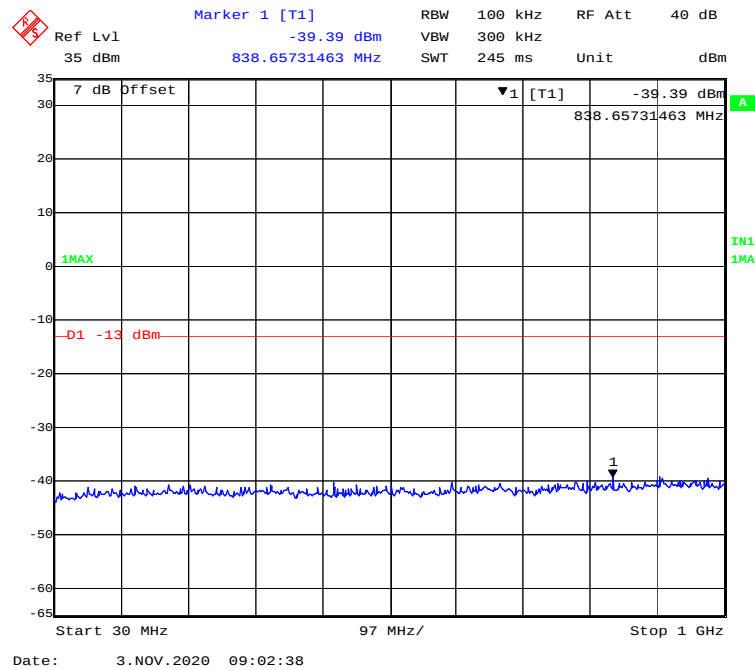
30 MHz - 1 GHz (10 MHz, QPSK, High Channel)



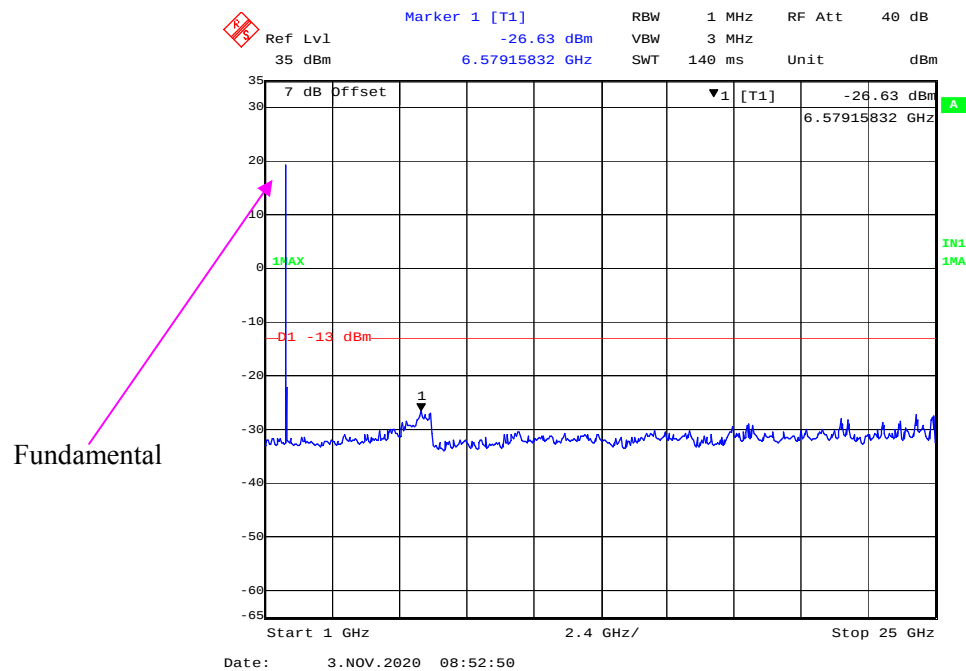
1 GHz – 25 GHz (10 MHz, QPSK, High Channel)



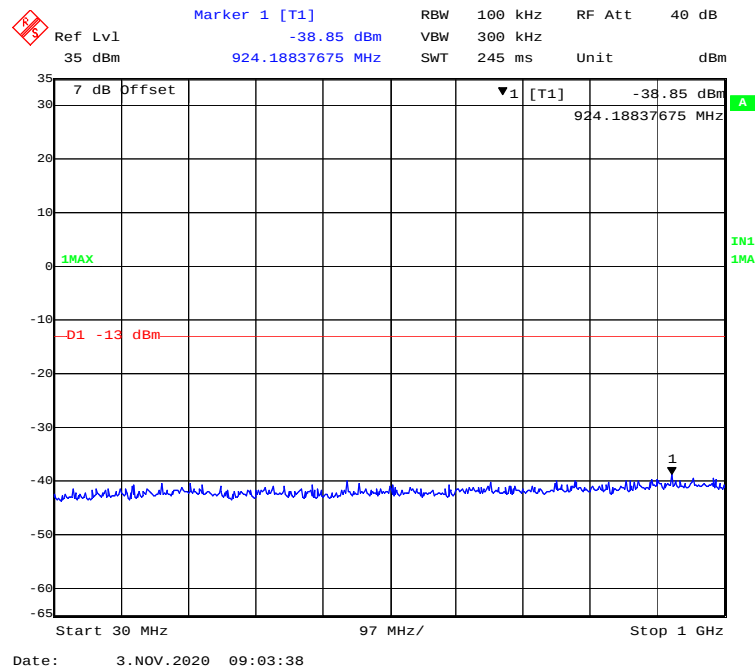
30 MHz - 1 GHz (10 MHz, 16-QAM, High Channel)



1 GHz – 25 GHz (10 MHz, 16-QAM, High Channel)



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



1 GHz – 25 GHz (15 MHz, QPSK, Middle Channel)

