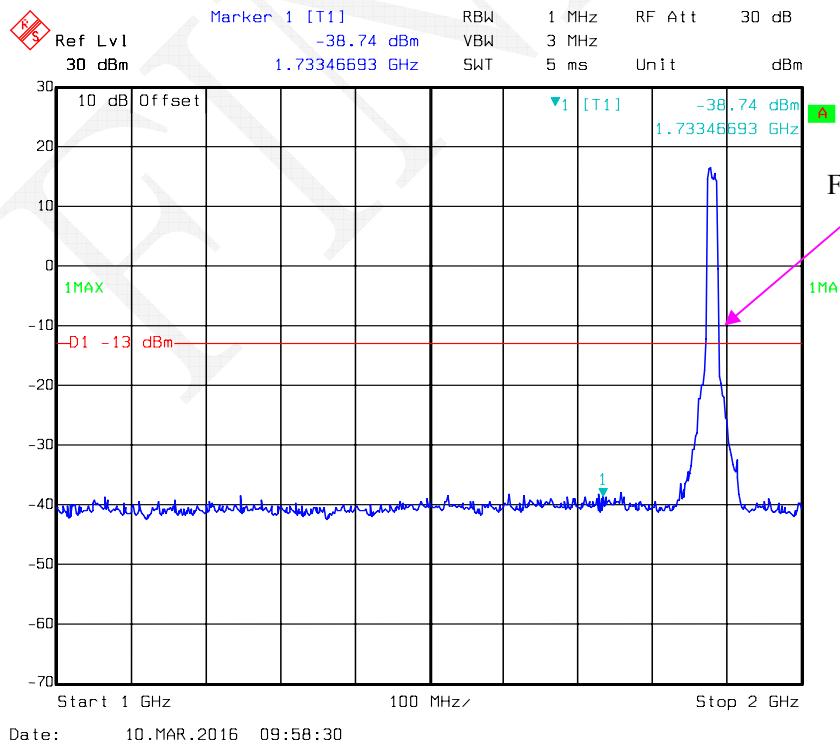
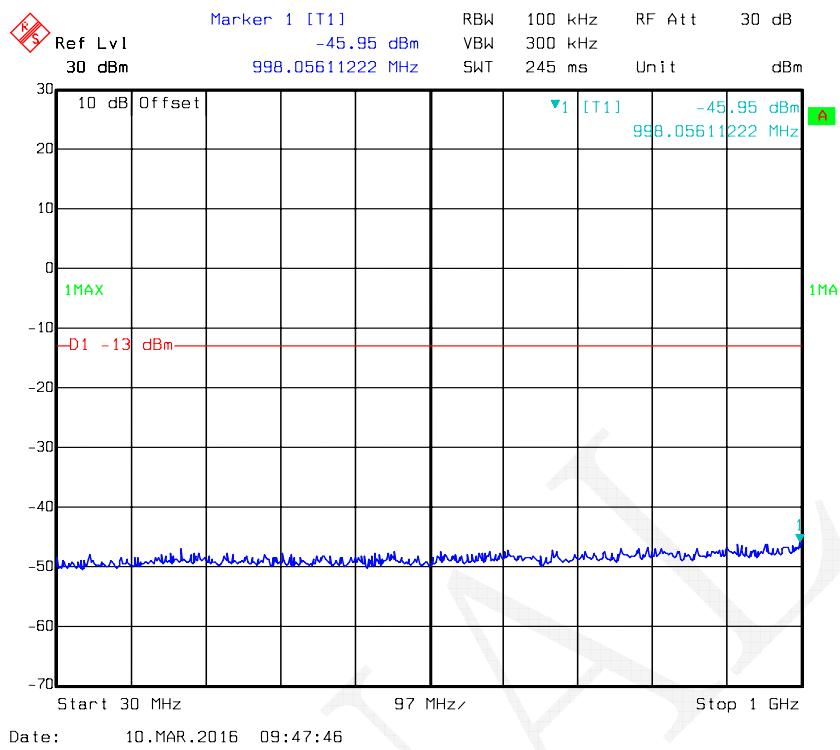
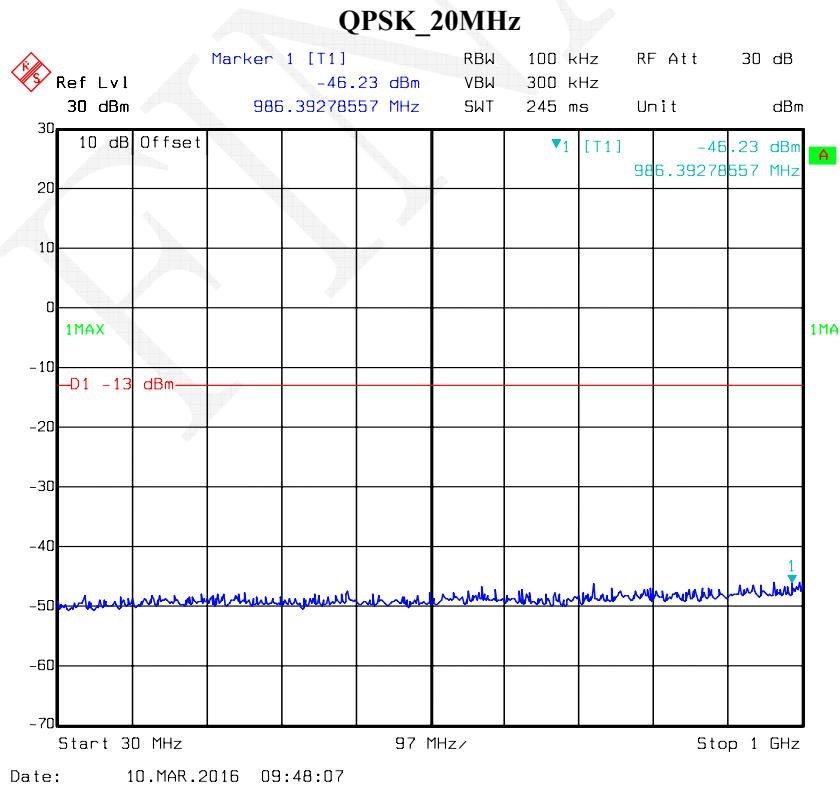
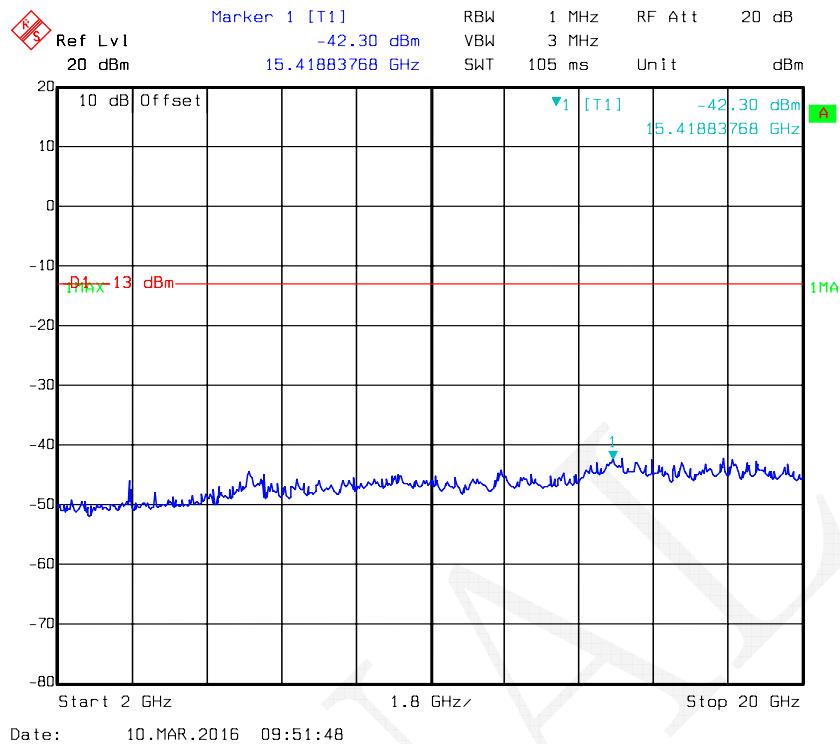
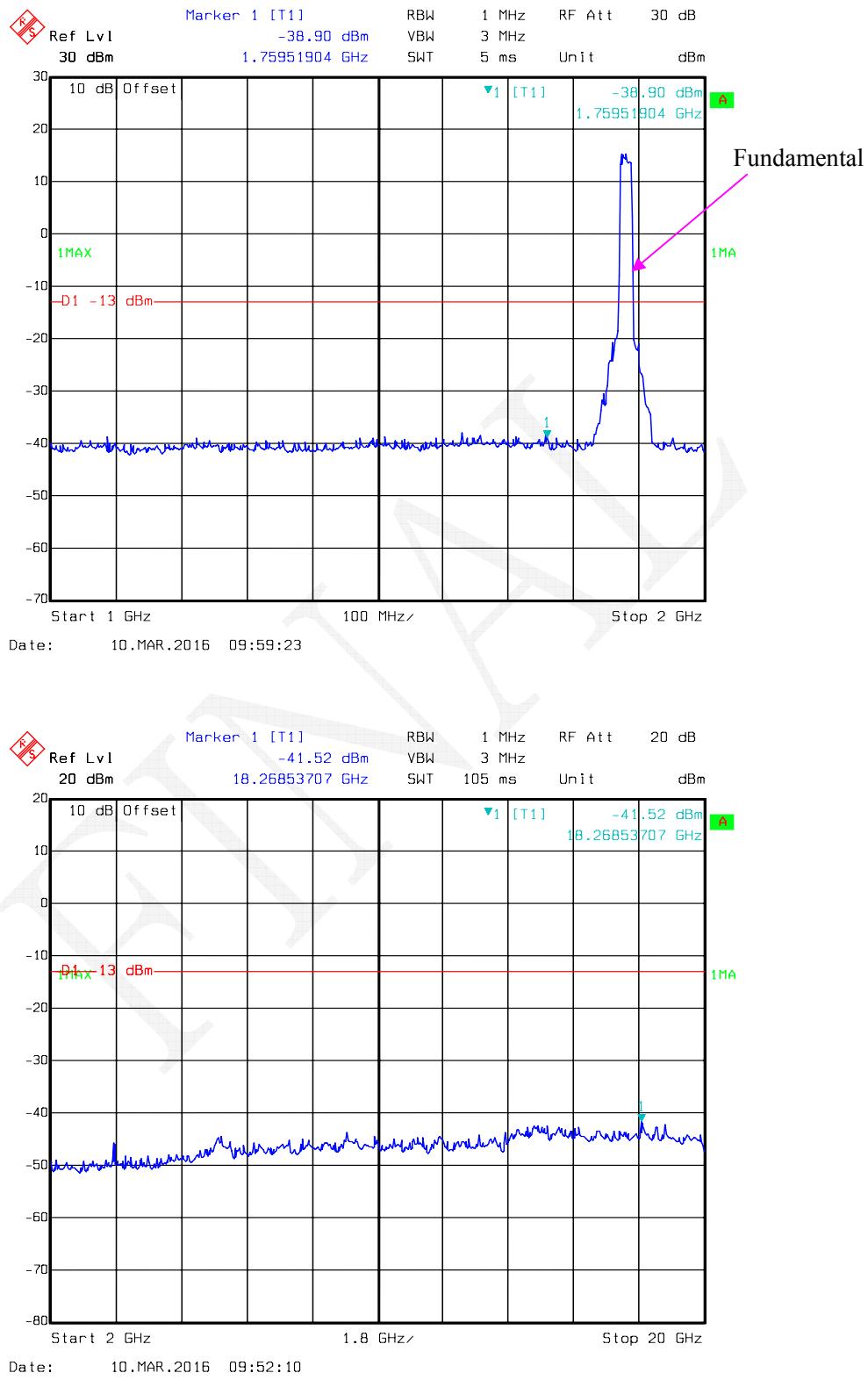
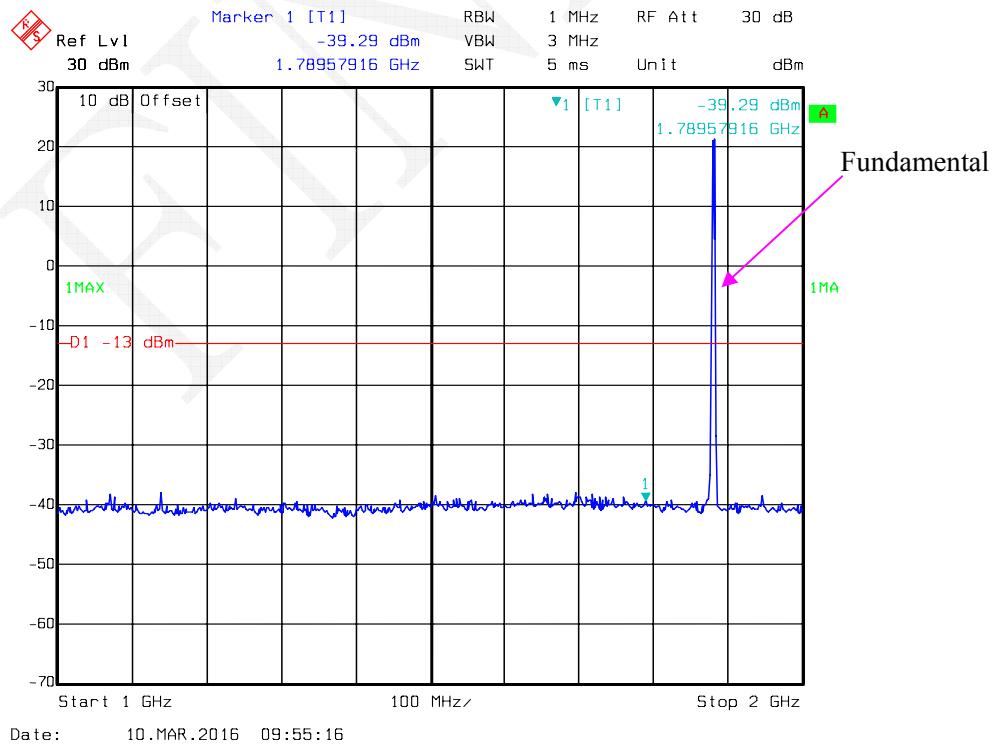
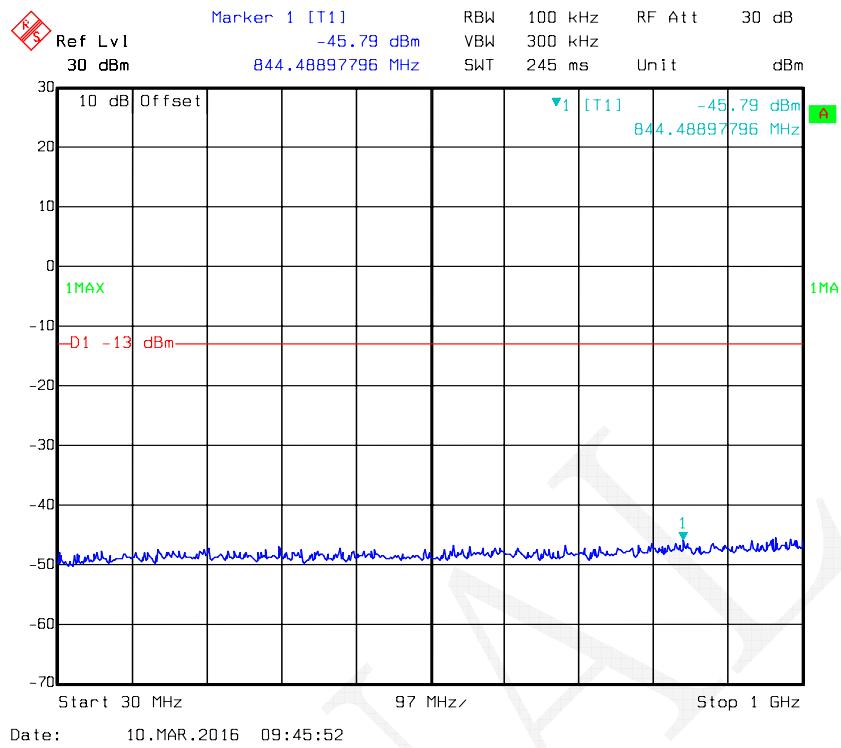
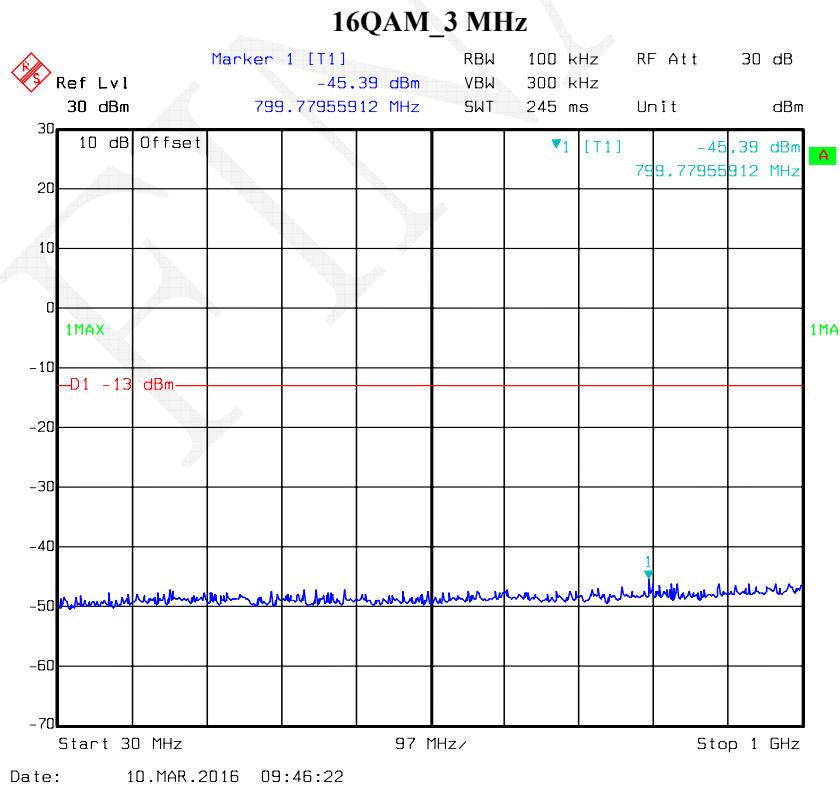
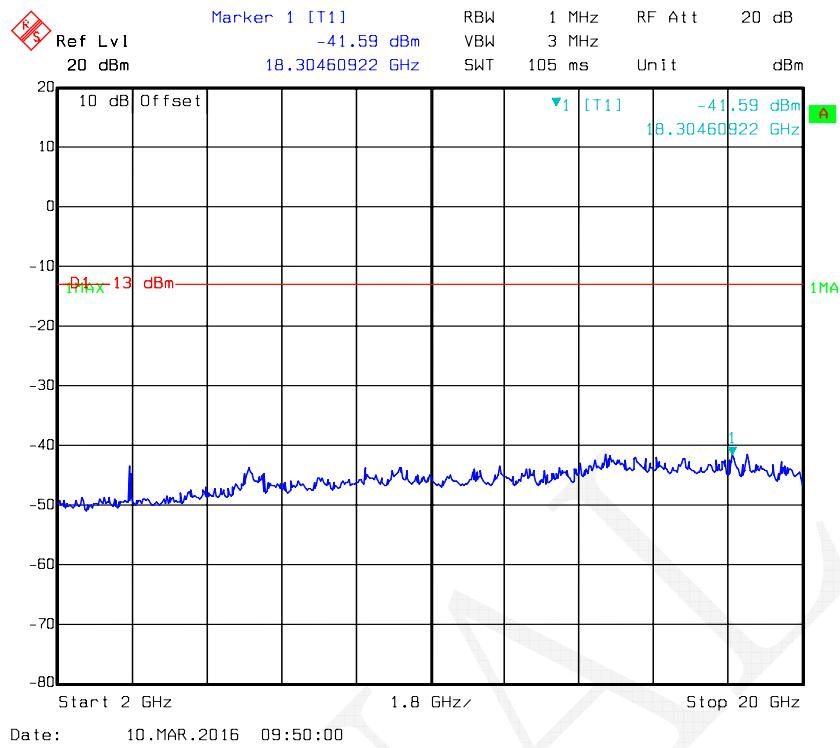


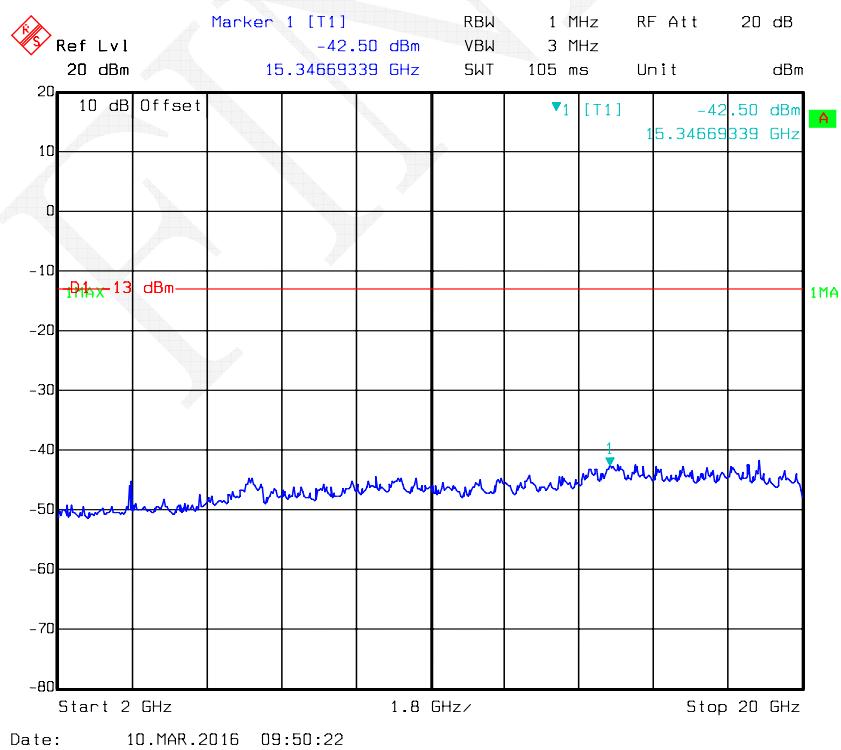
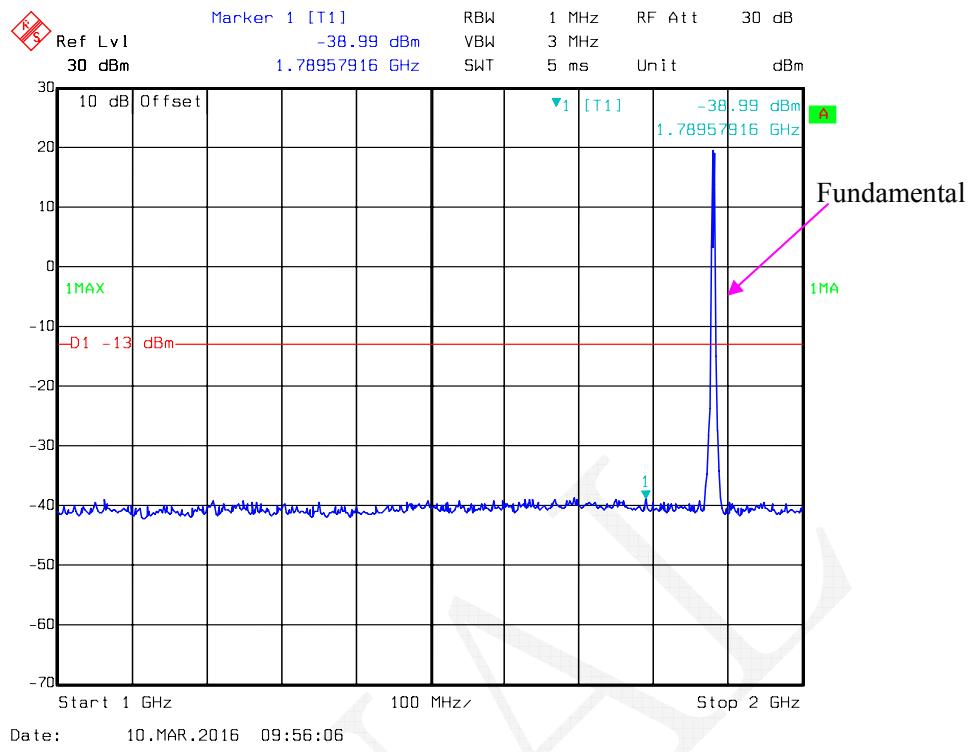
QPSK_15MHz

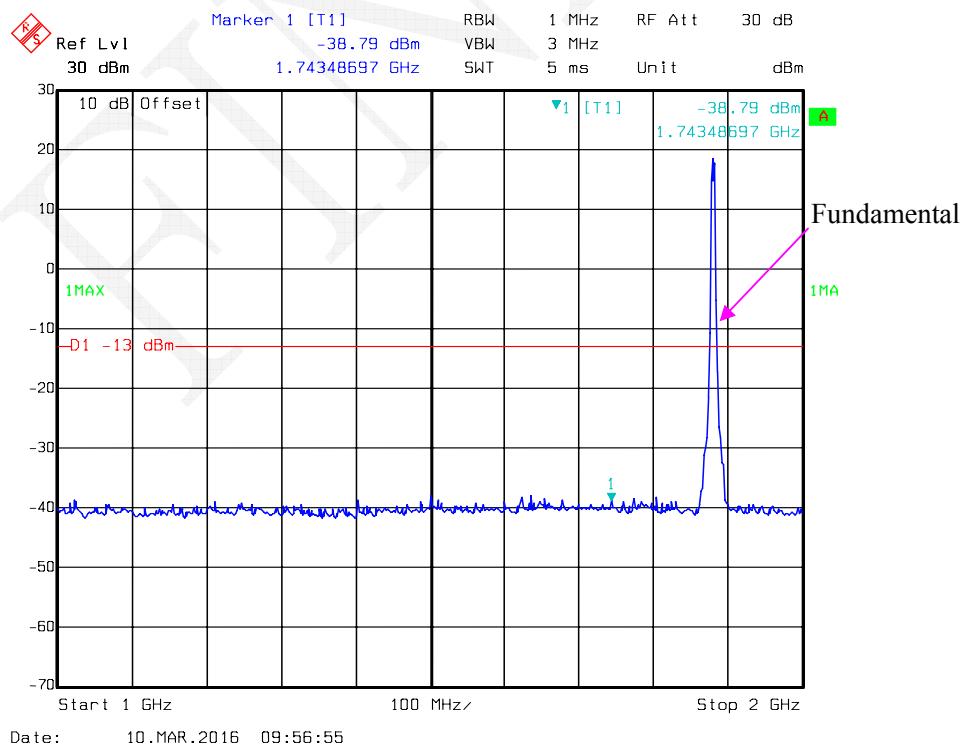
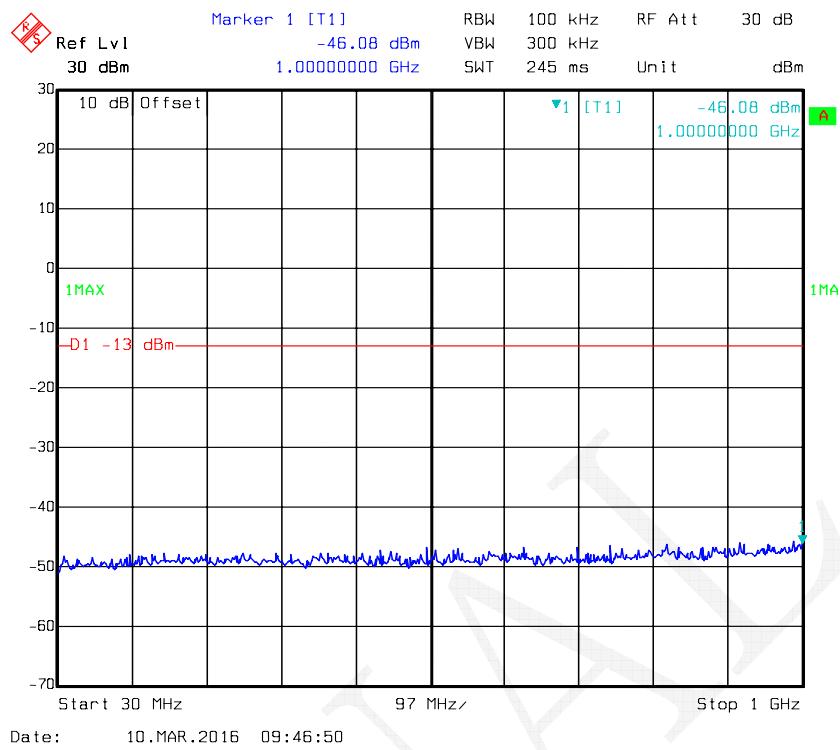


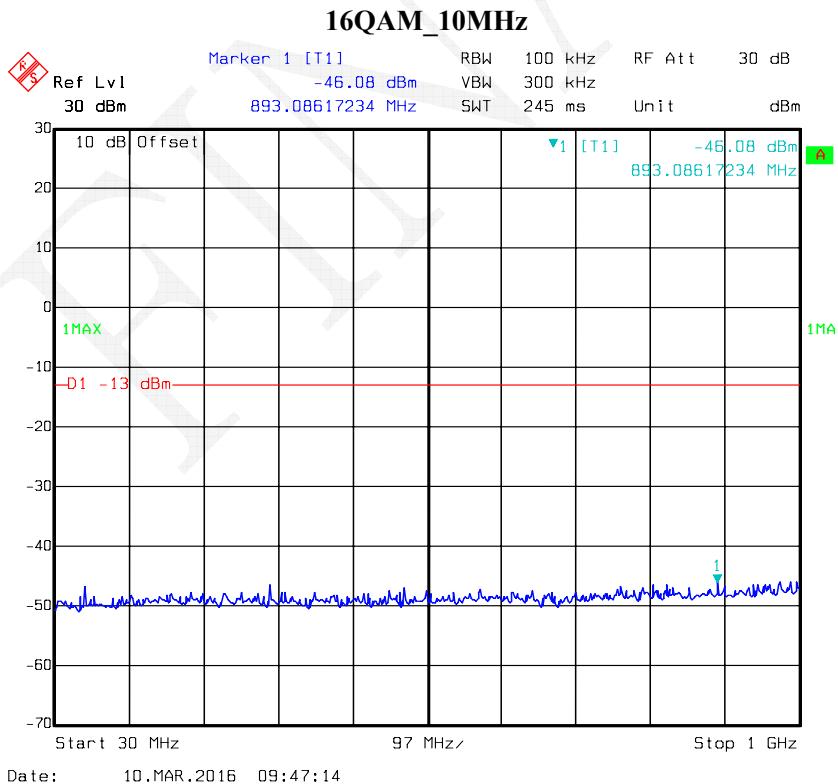
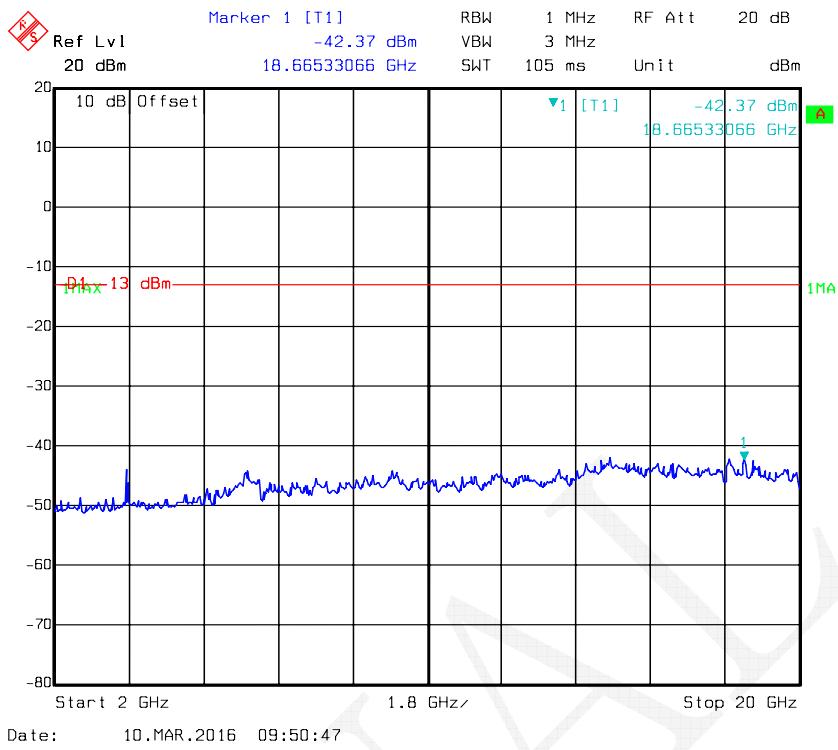


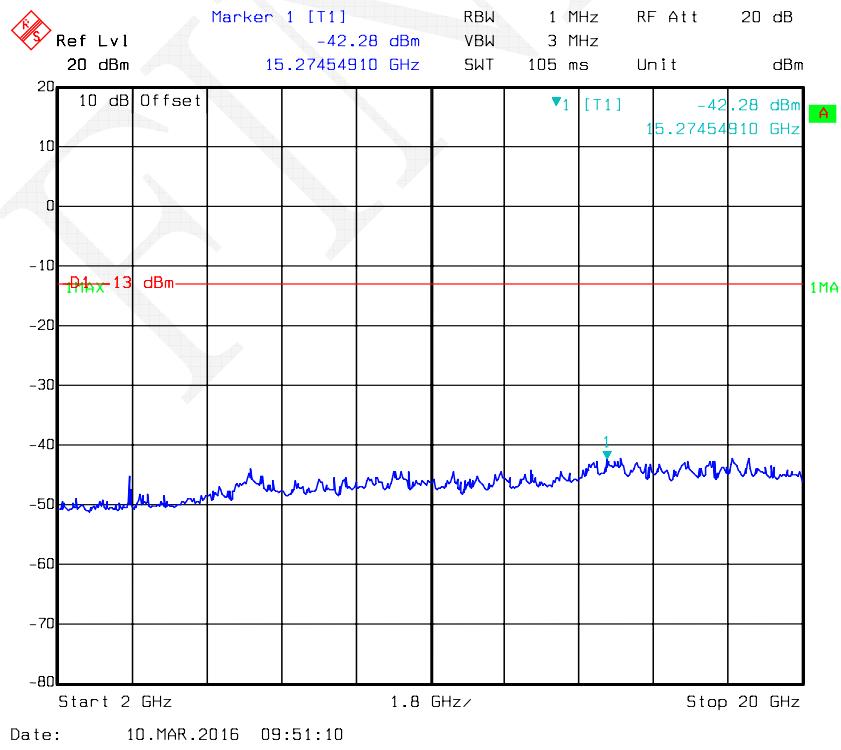
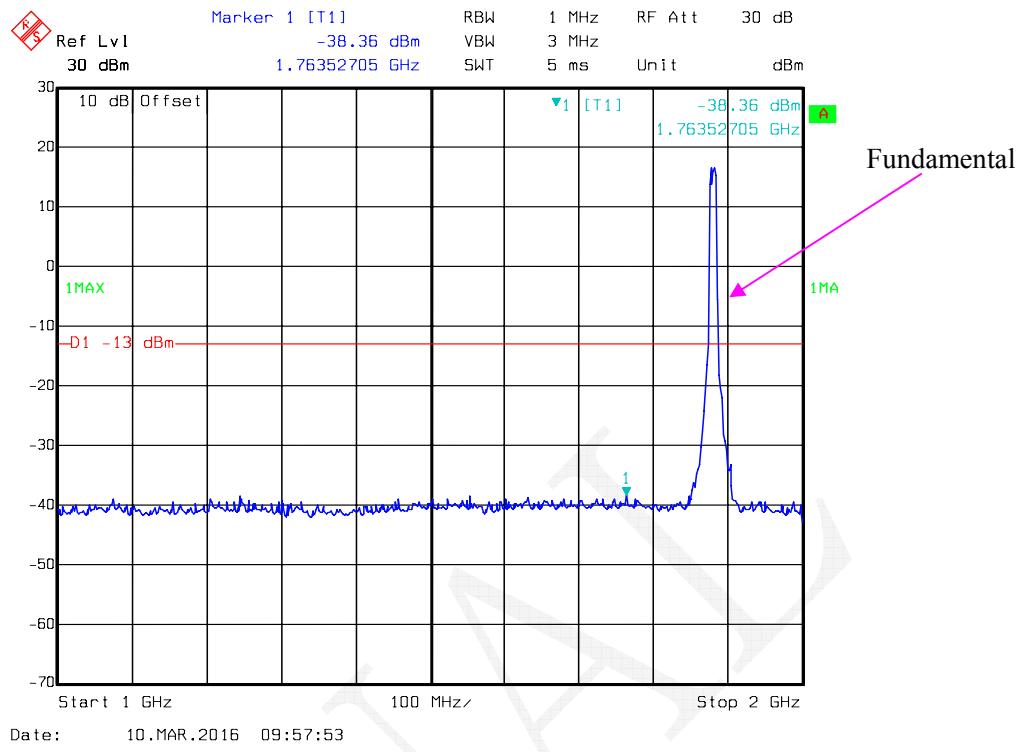
16QAM_1.4 MHz

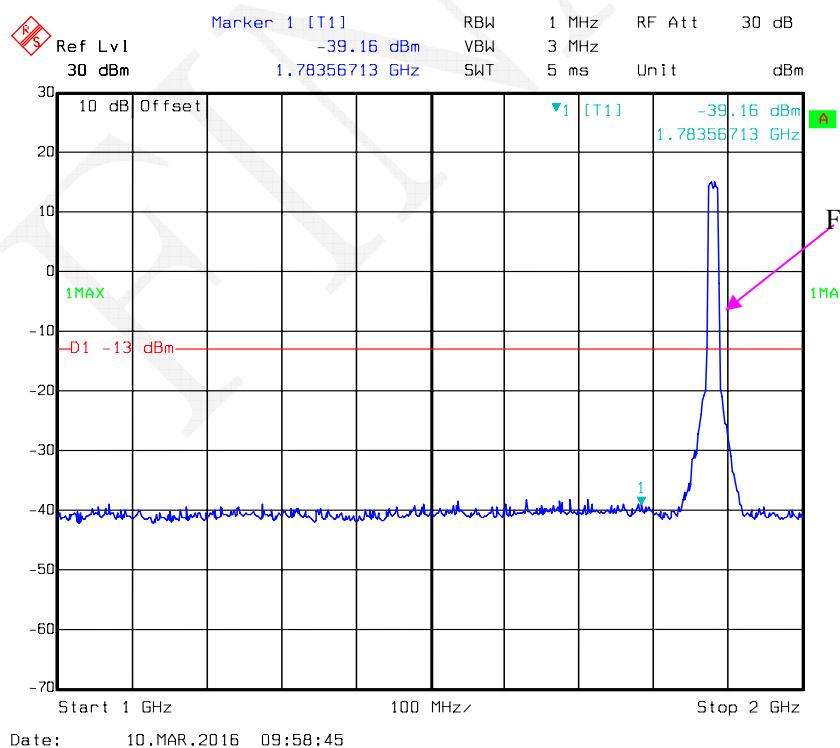
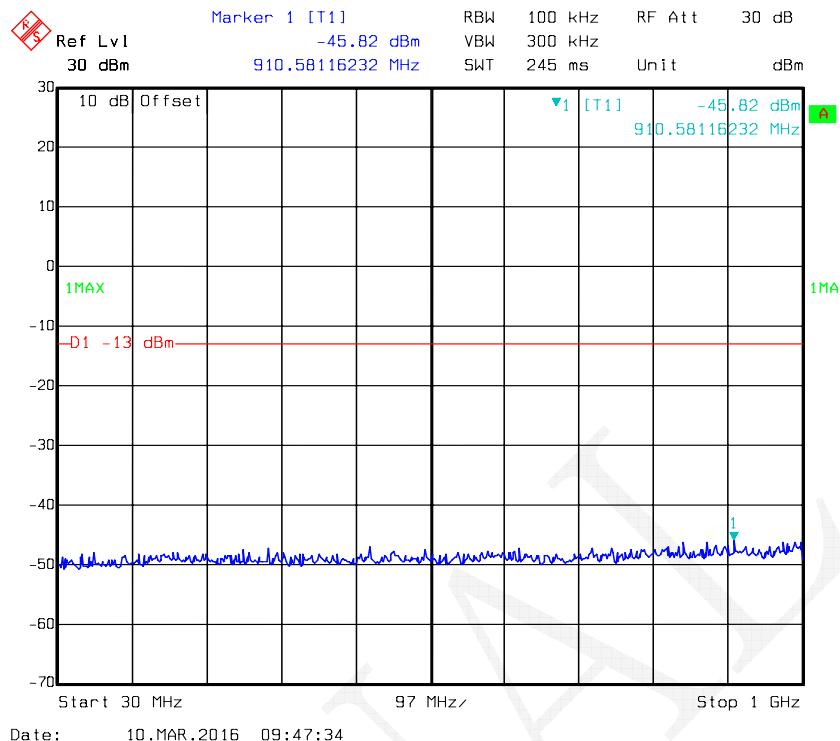


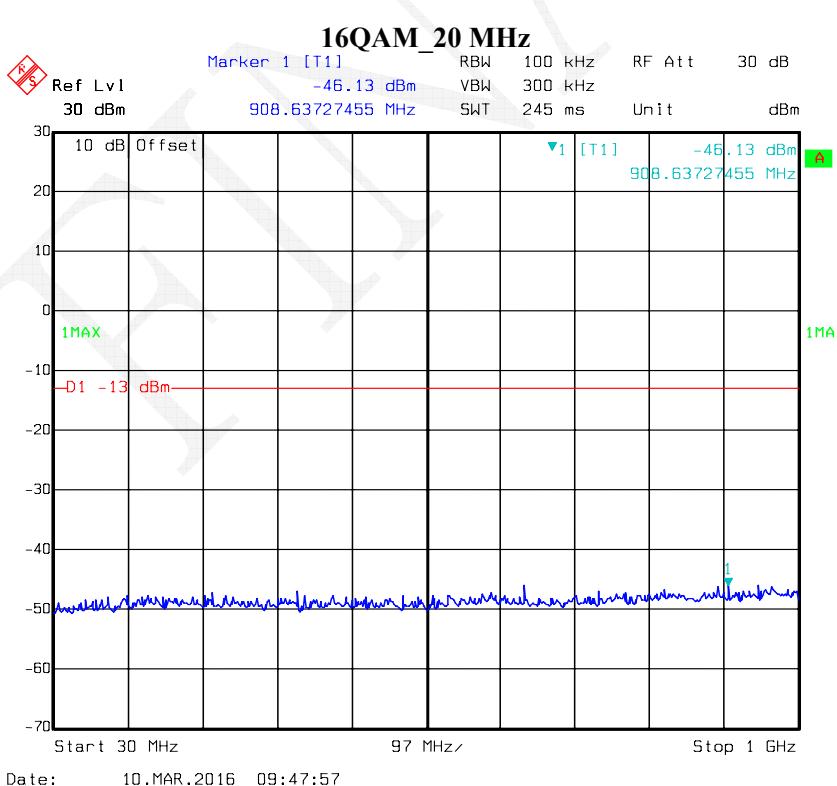
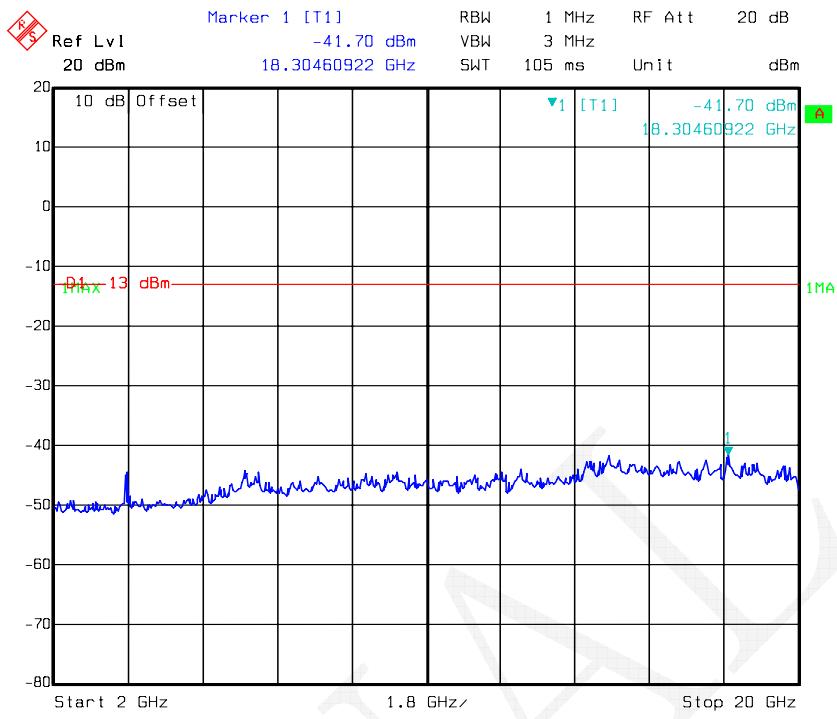


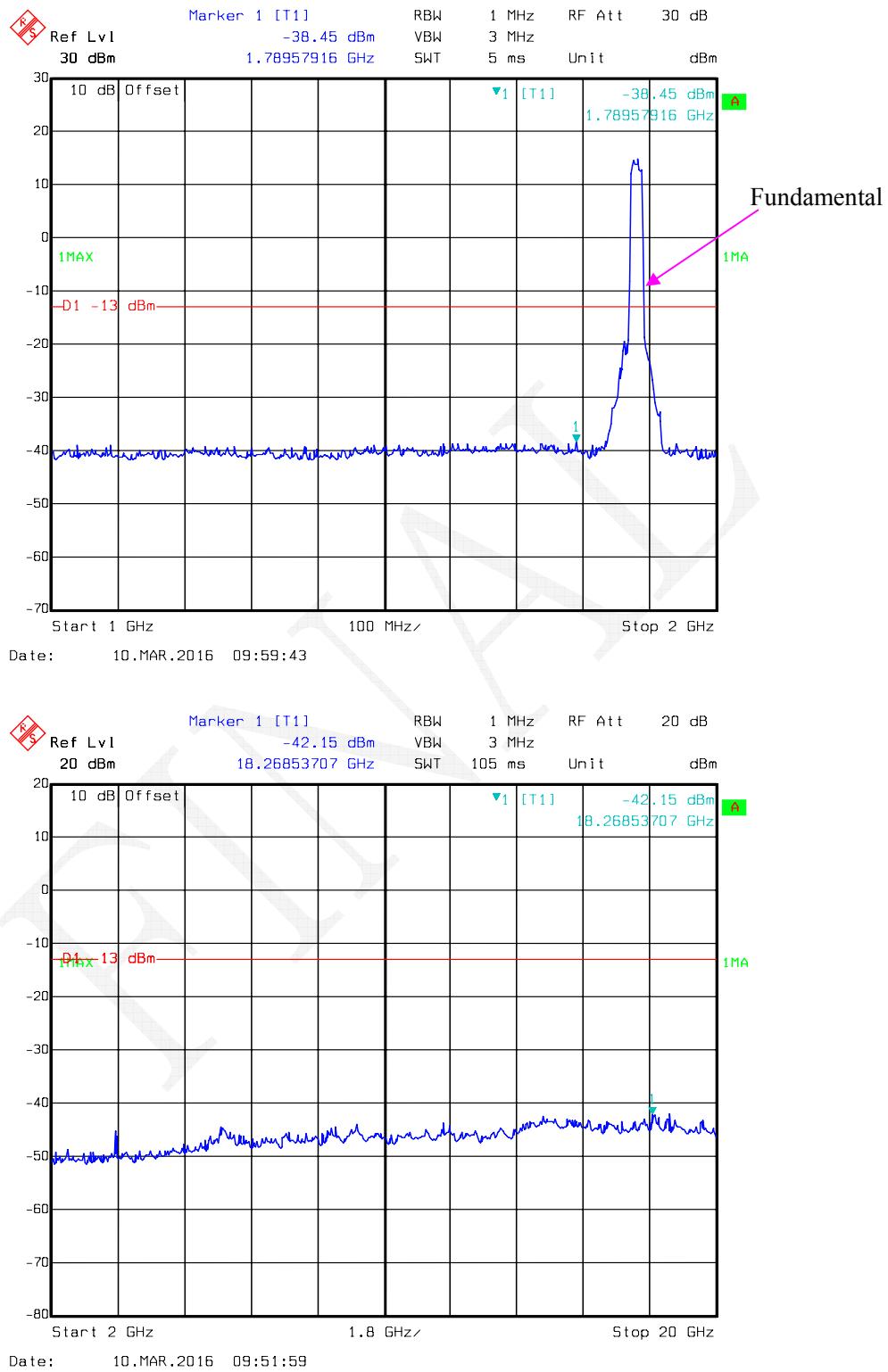
16QAM_5MHz



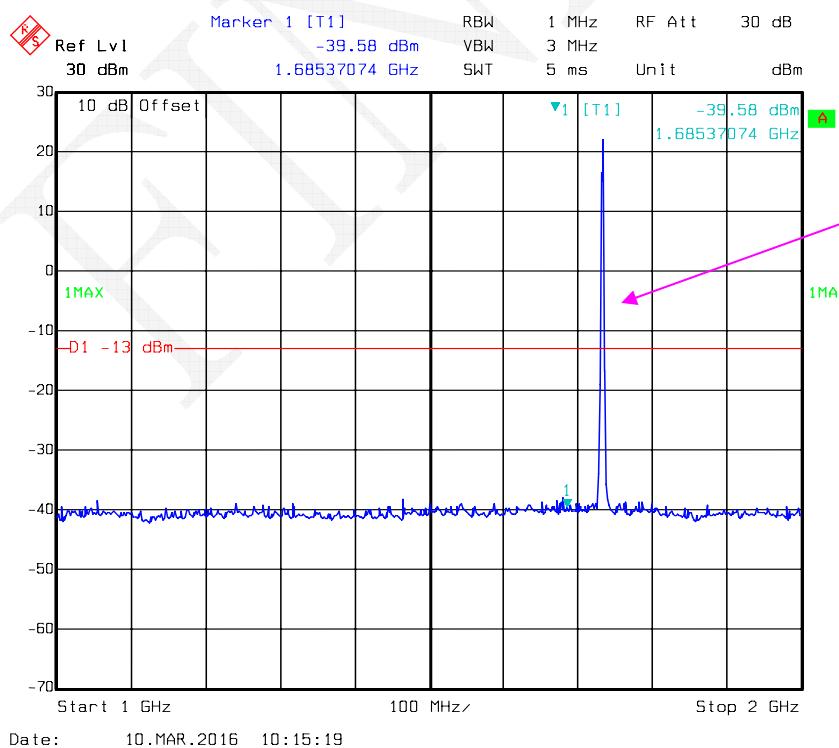
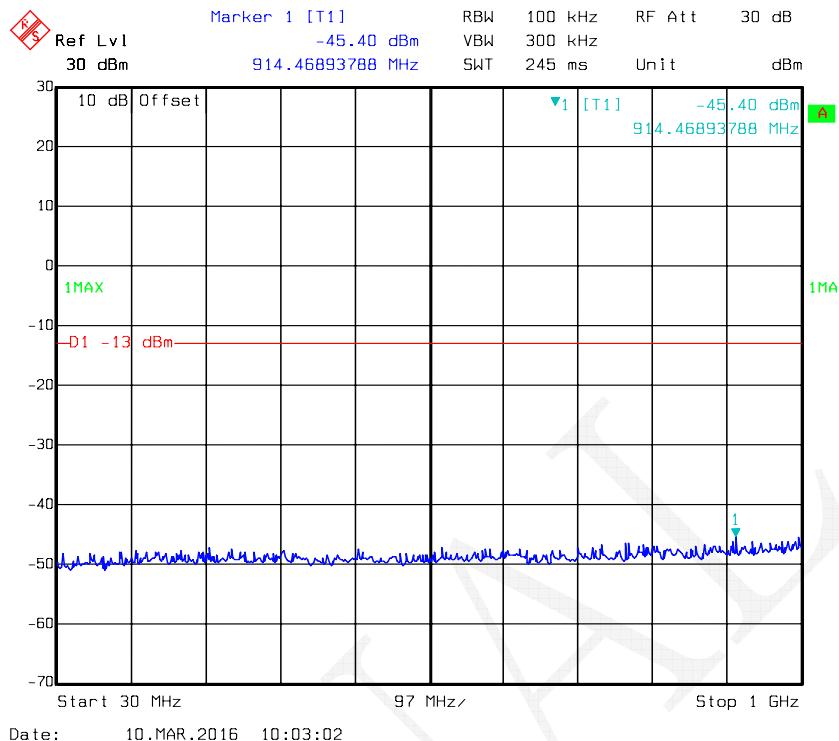


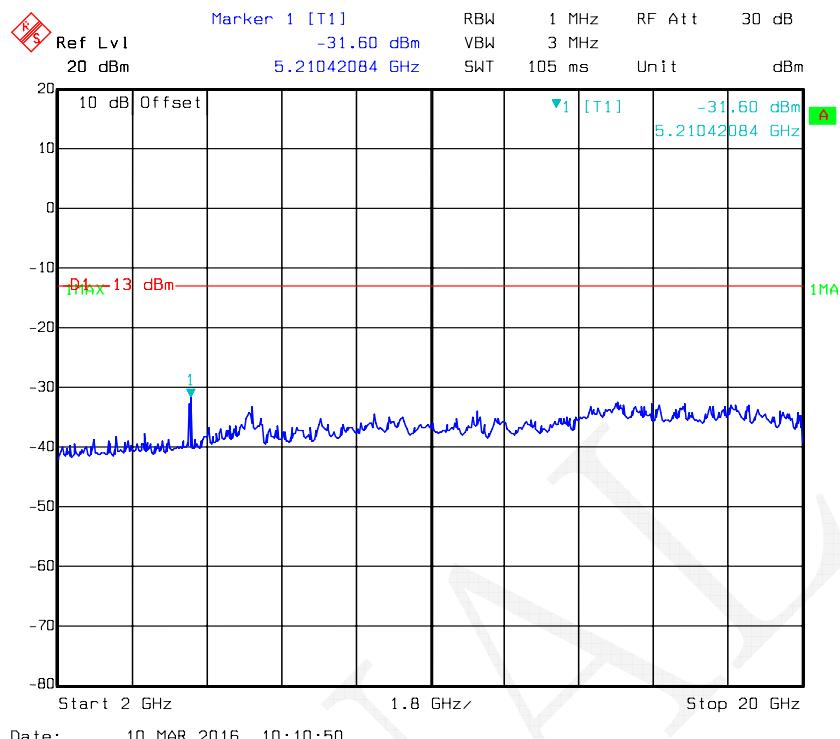
16QAM_15 MHz



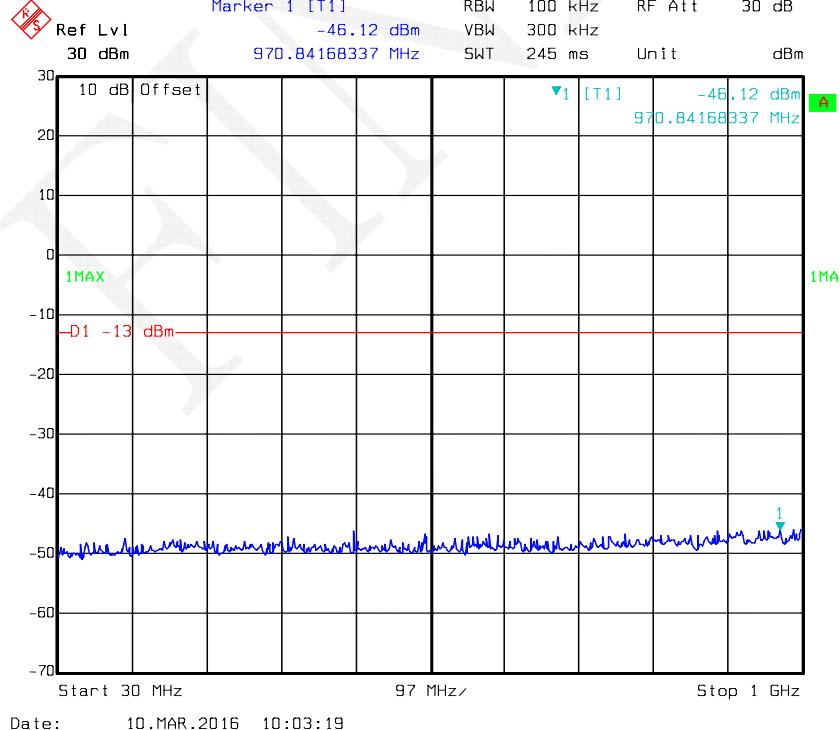


LTE Band IV (Middle Channel)
QPSK-1.4 MHz

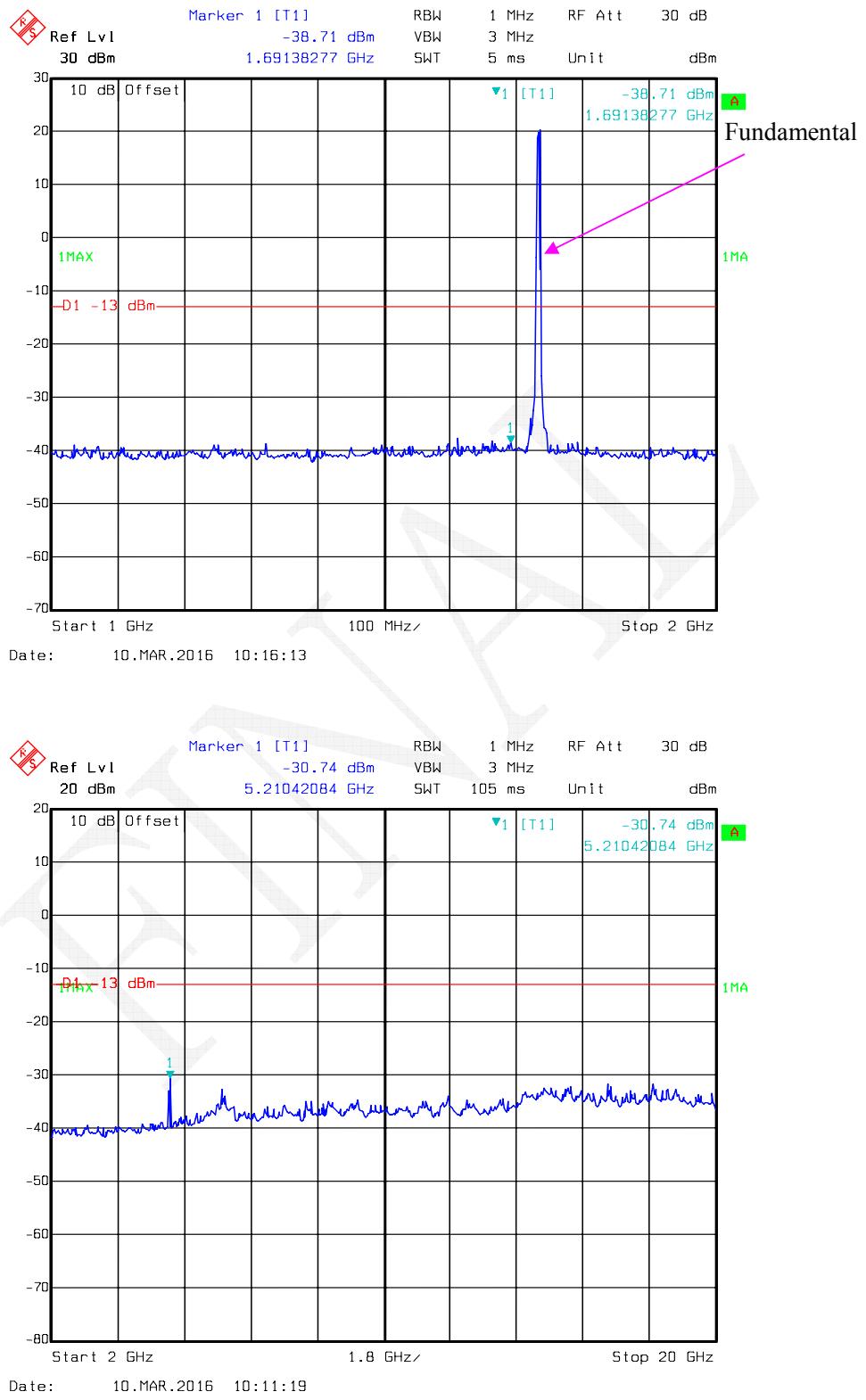


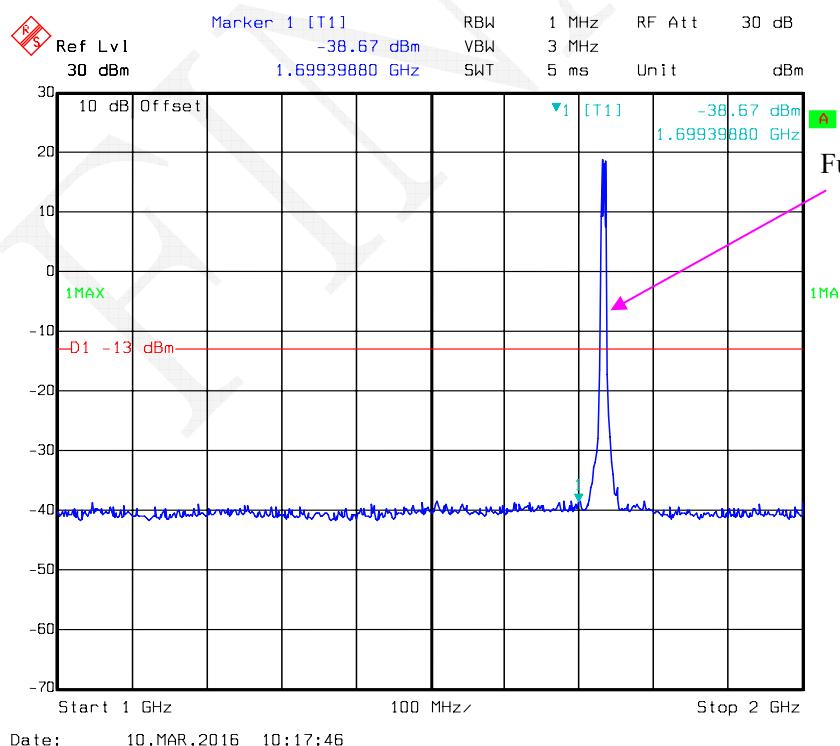
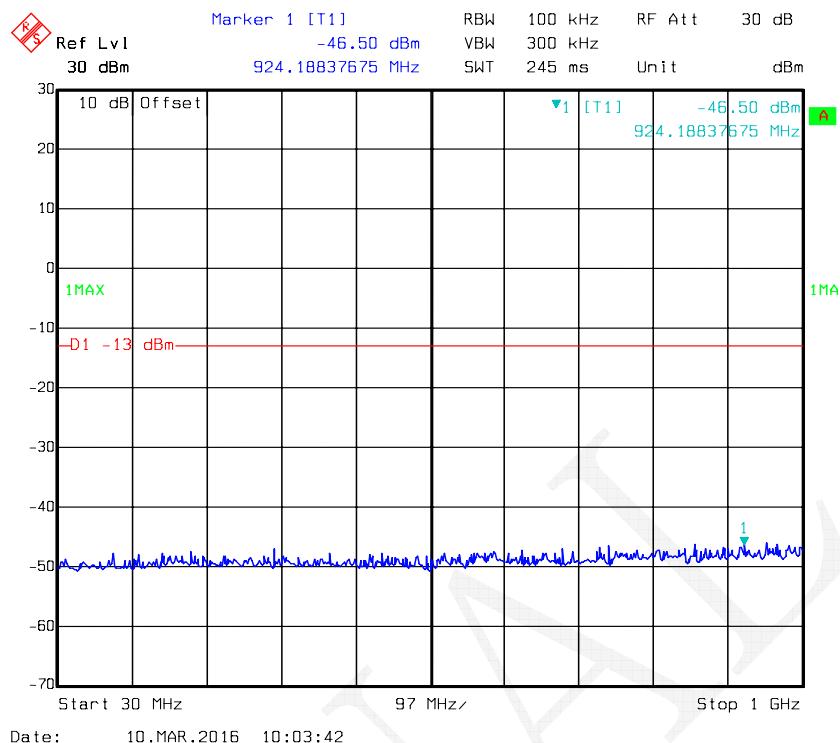


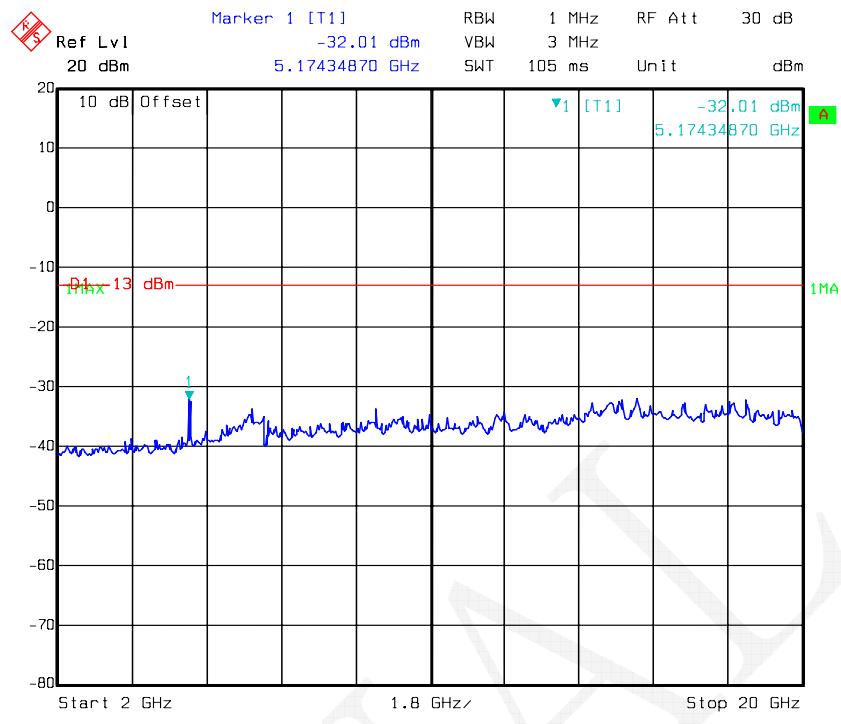
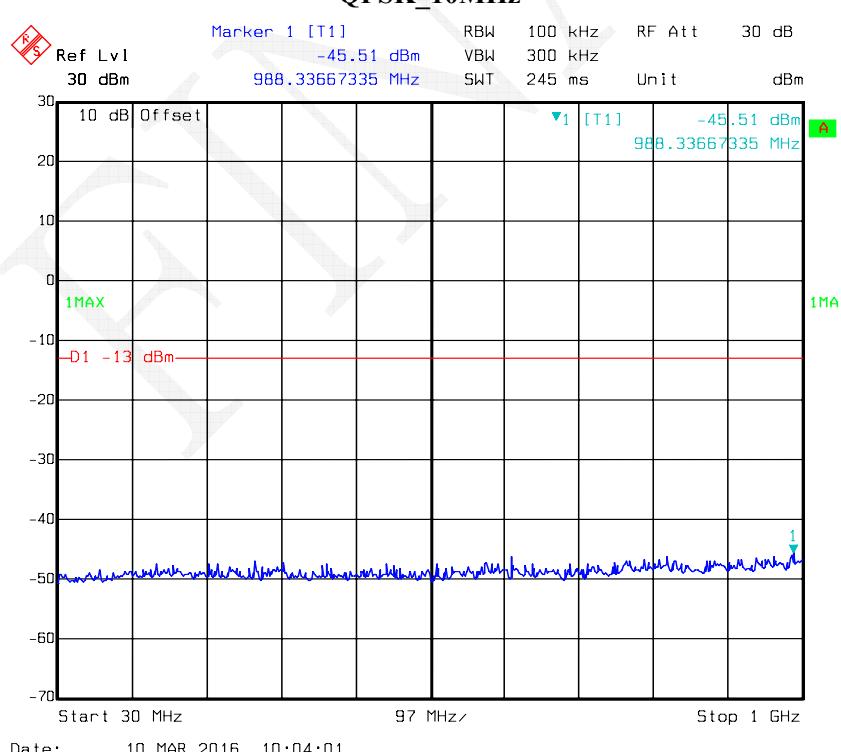
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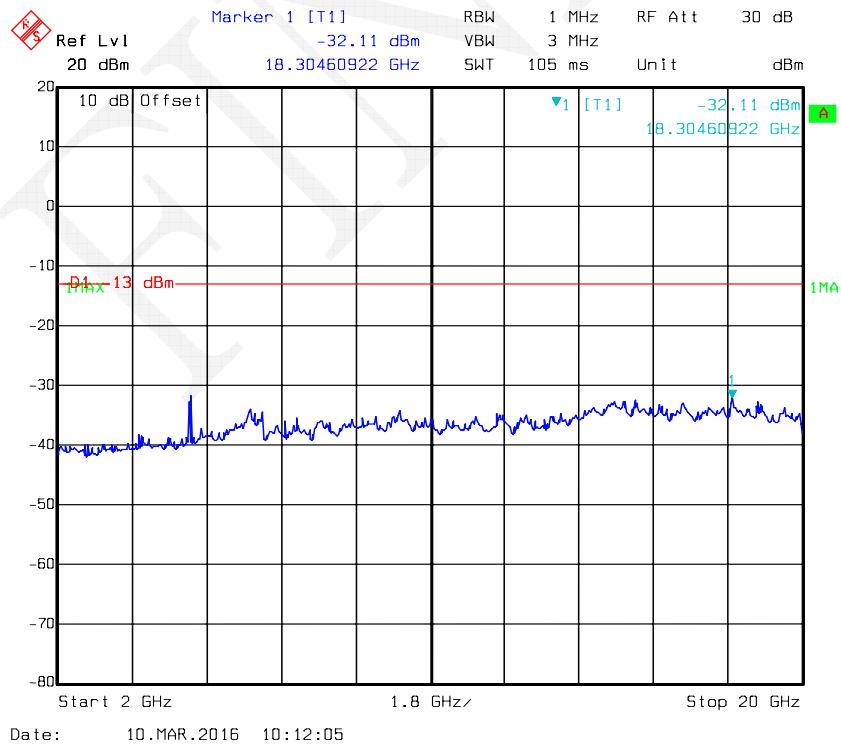
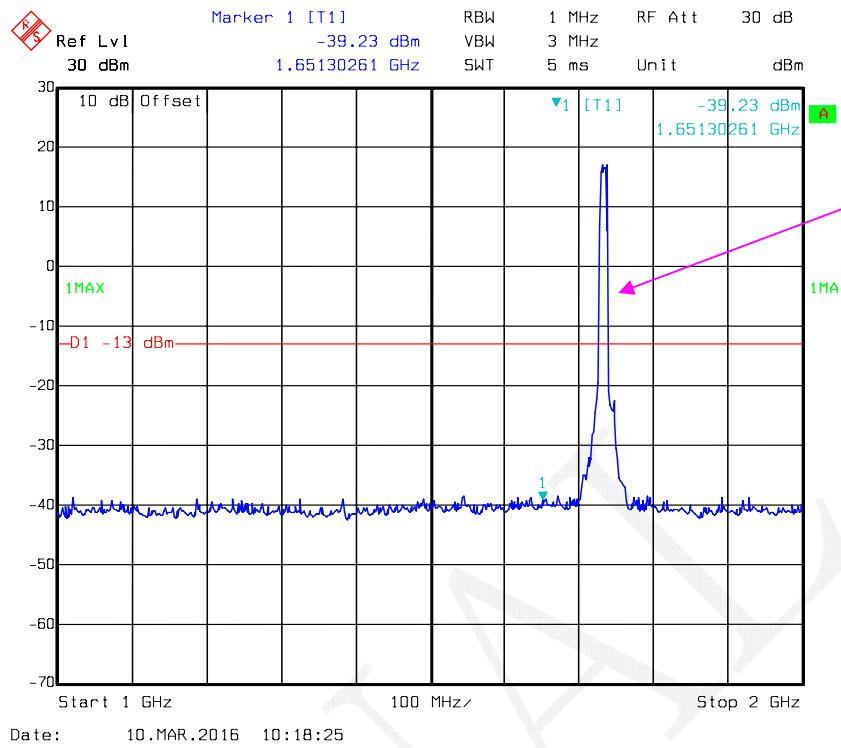
QPSK_3MHz

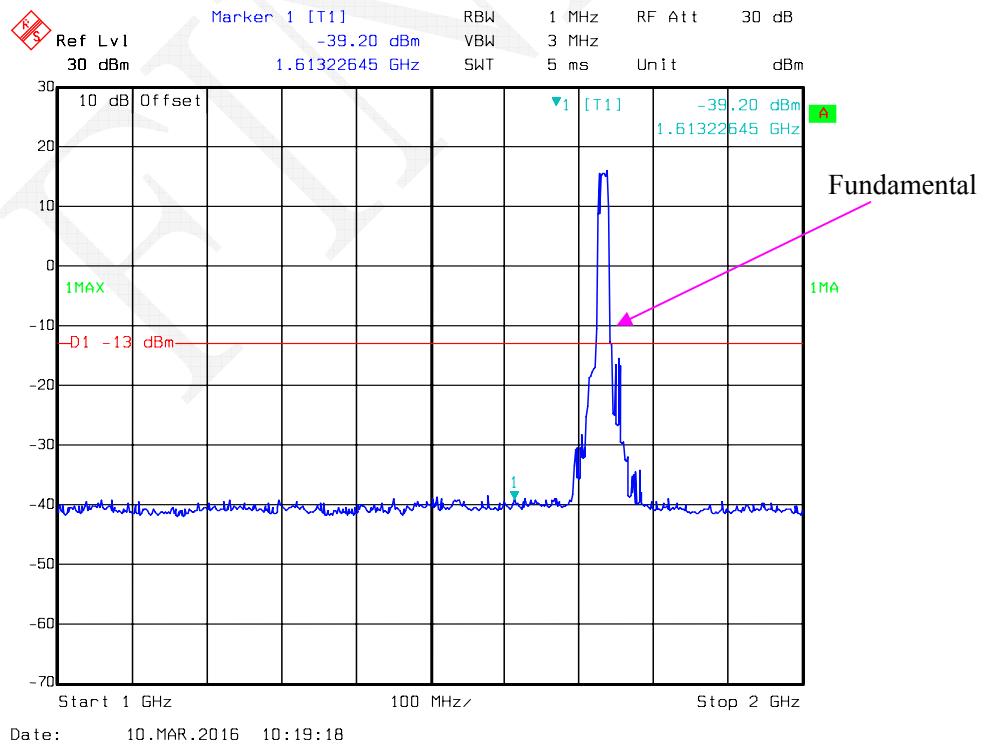
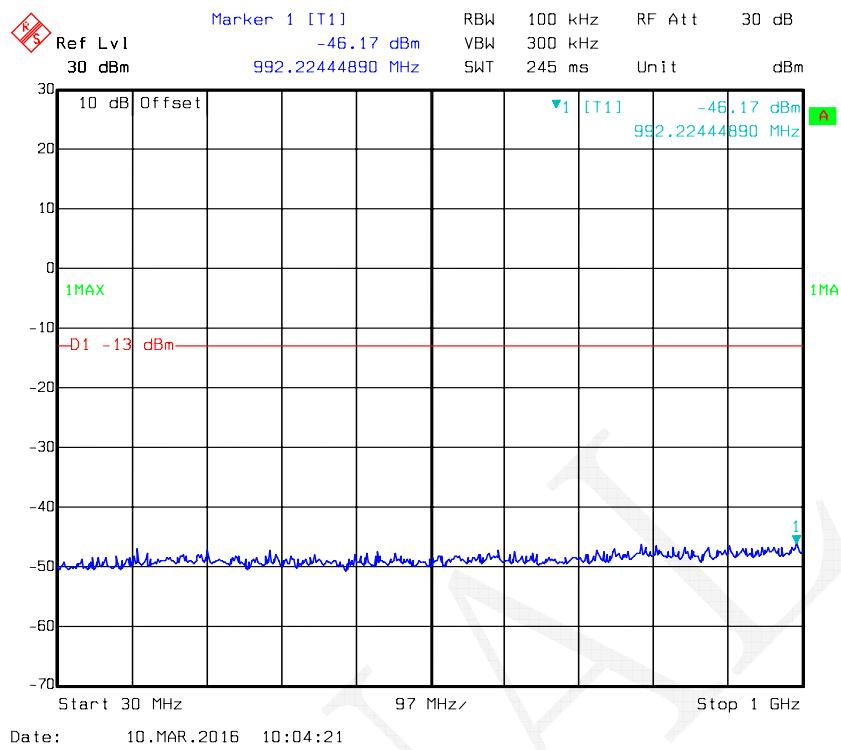
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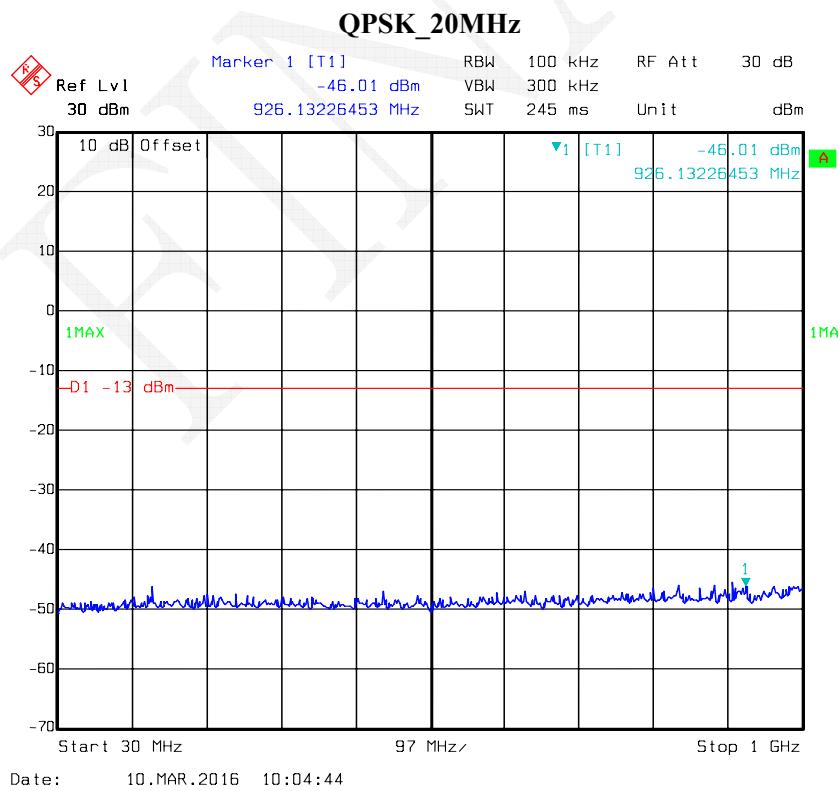
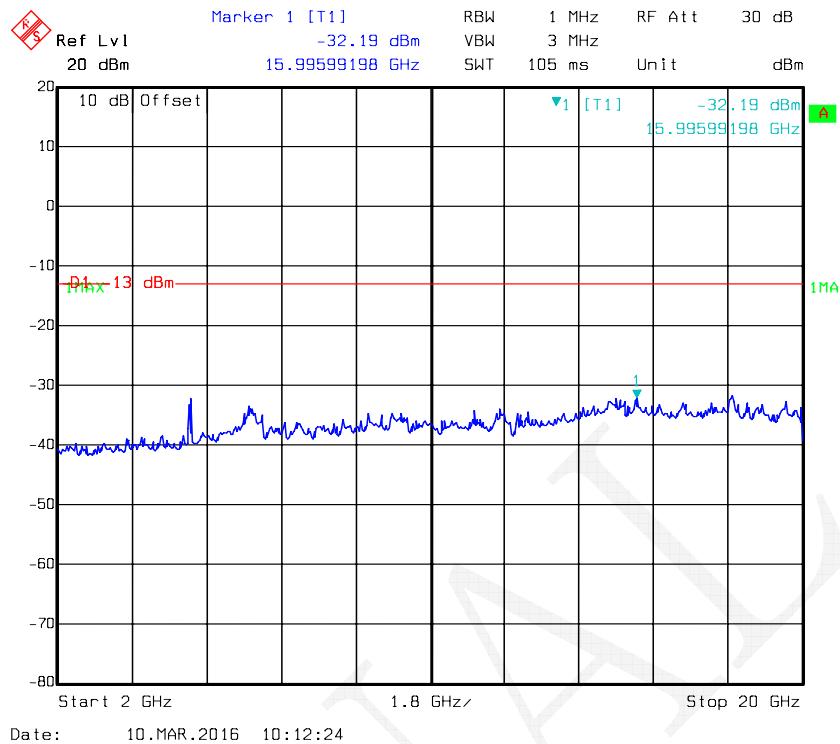


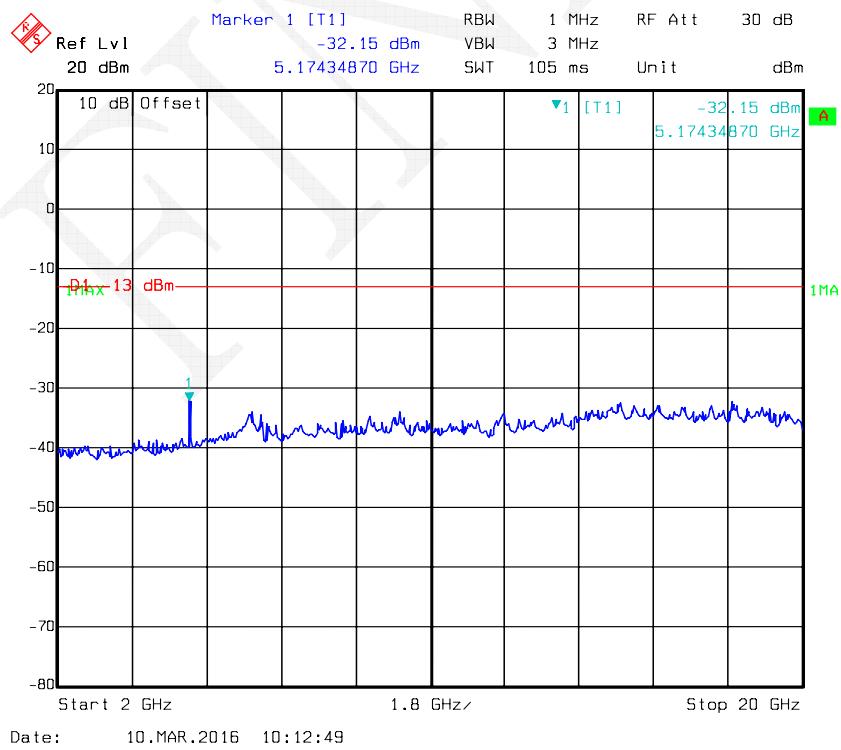
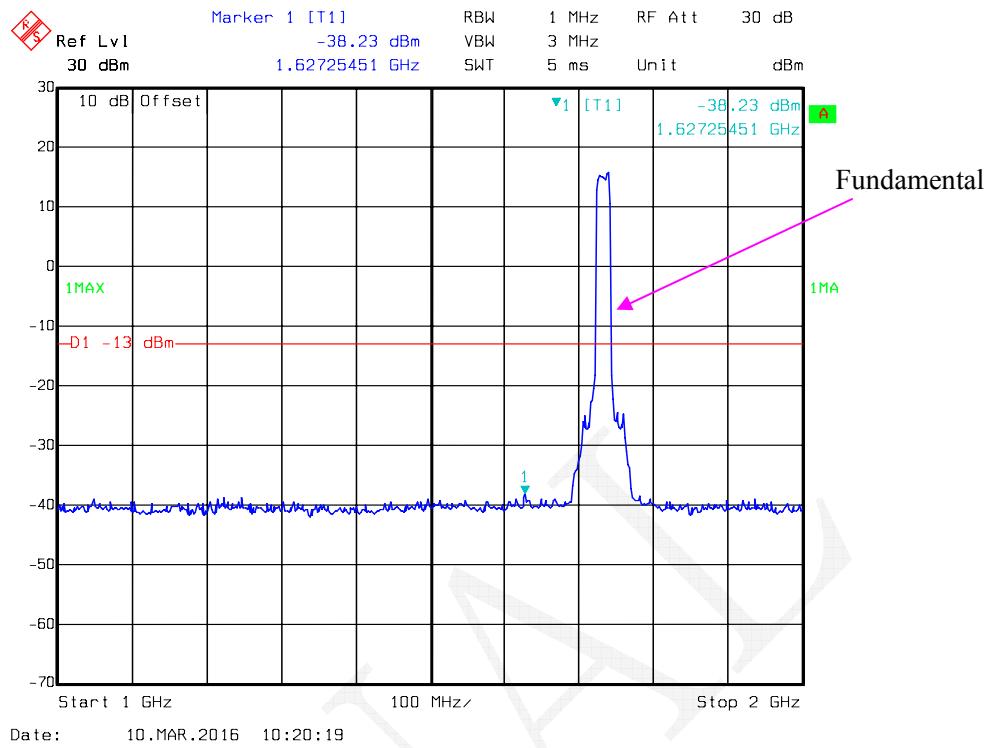
QPSK_5MHz

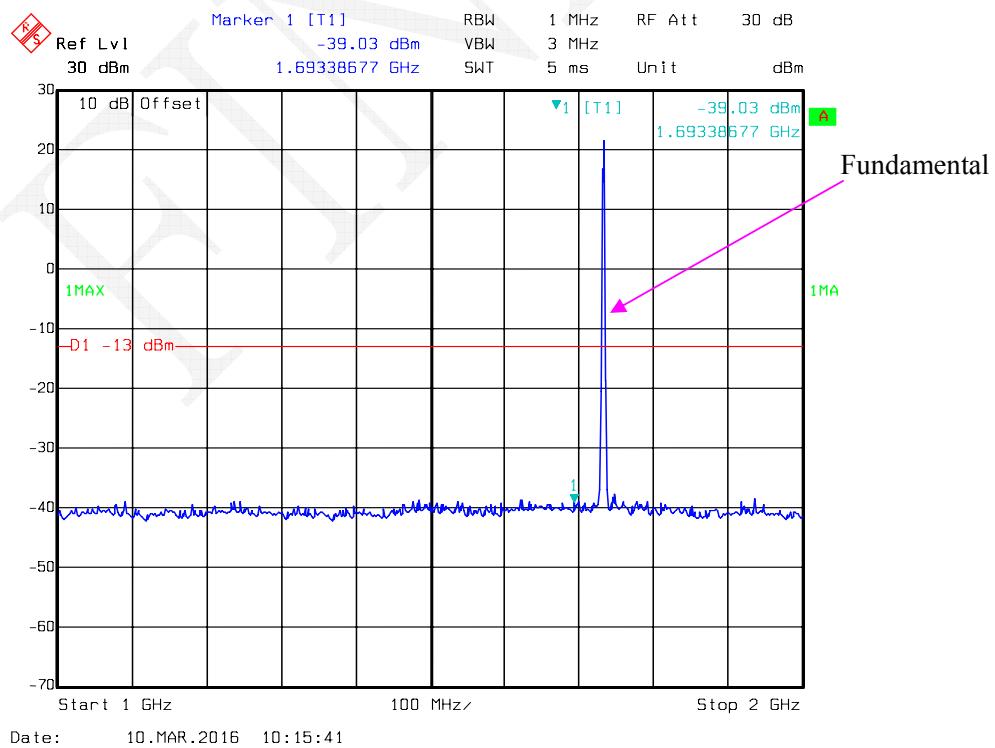
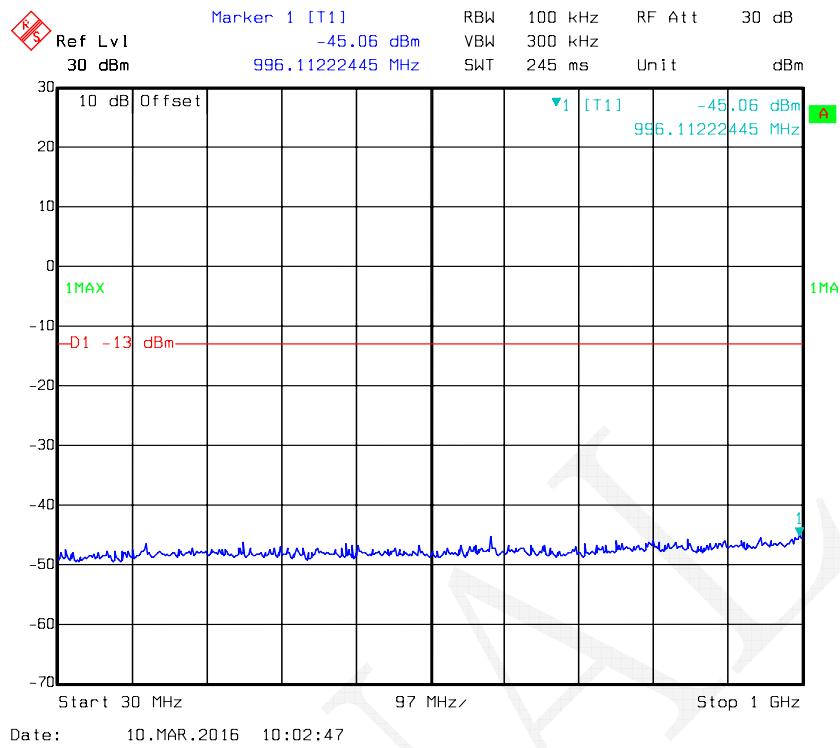
**QPSK_10MHz**

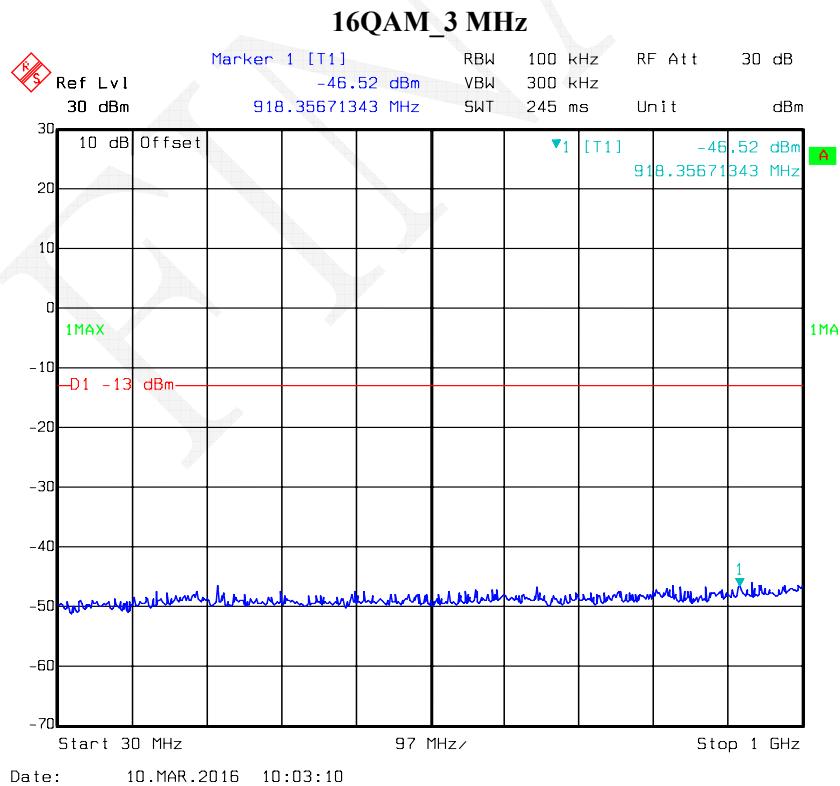
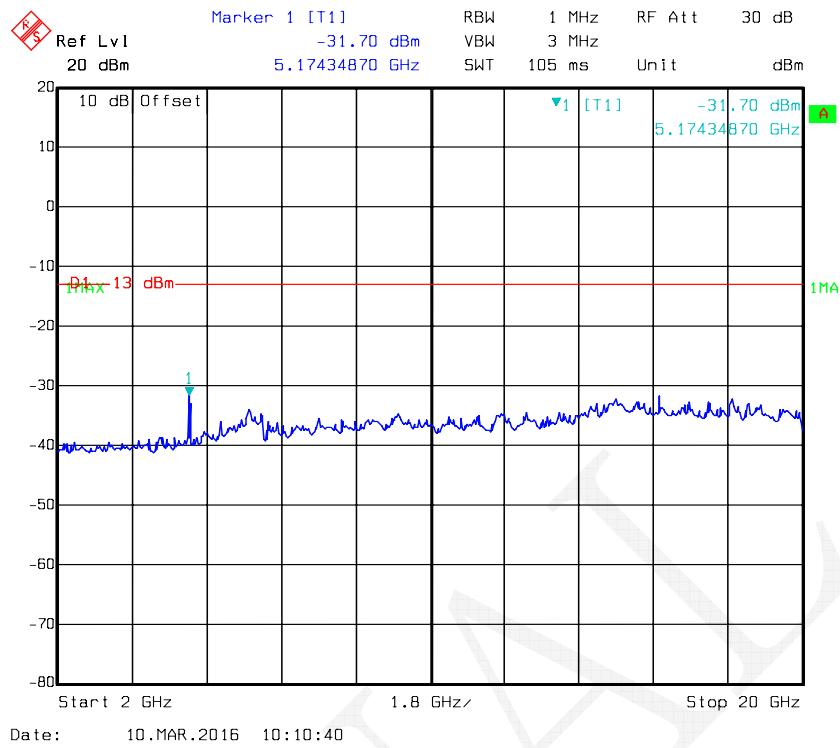


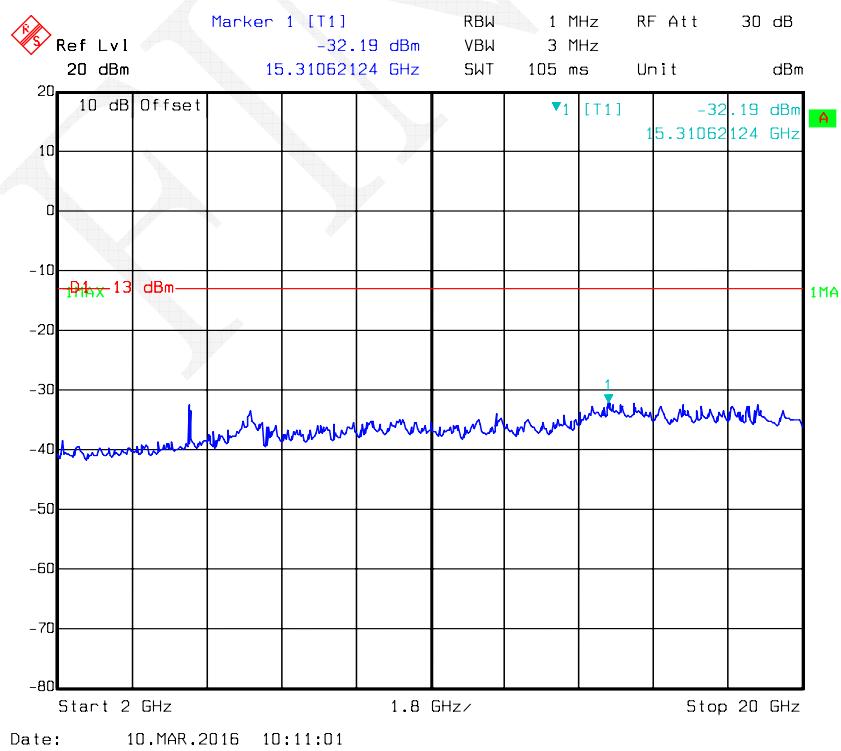
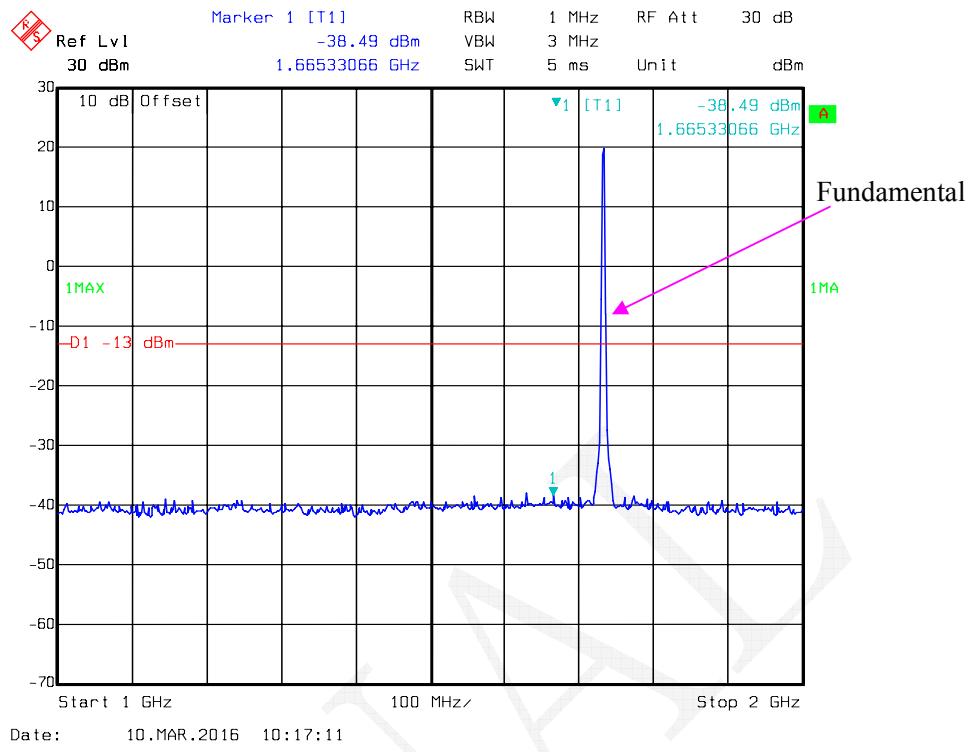
QPSK_15MHz

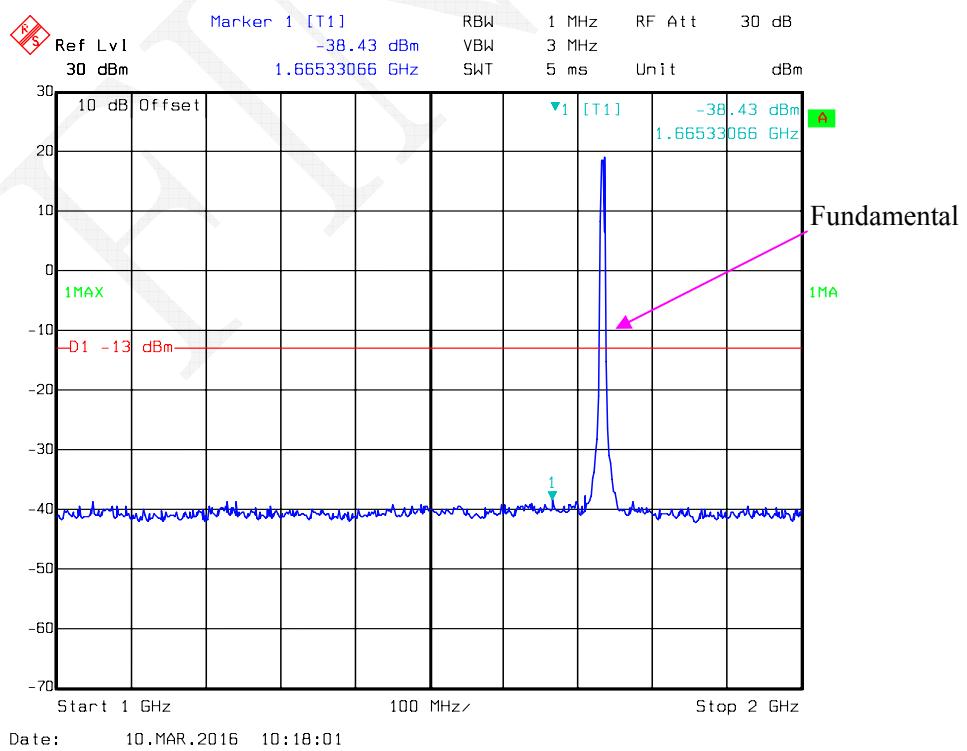
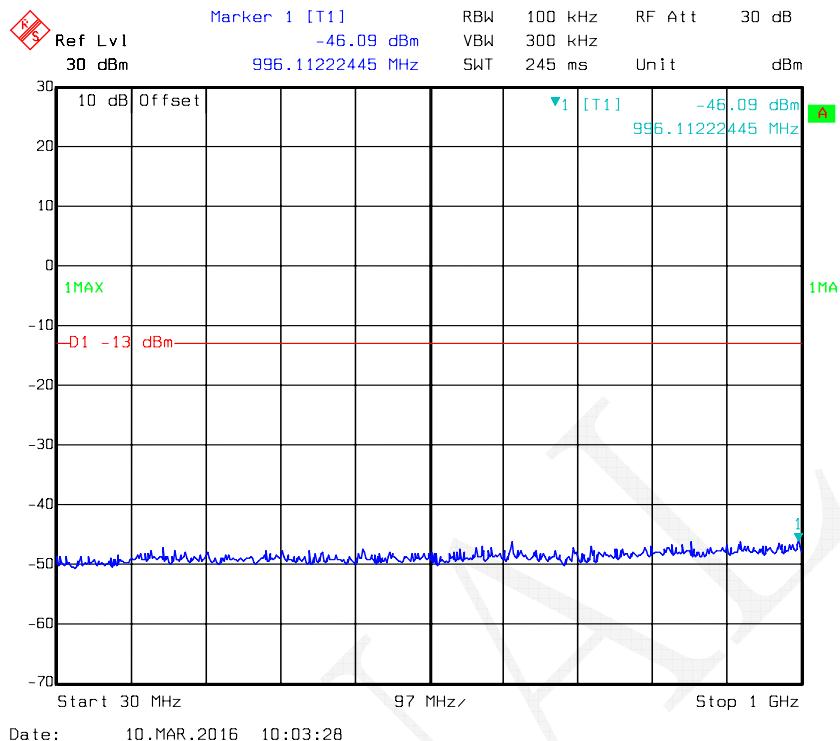


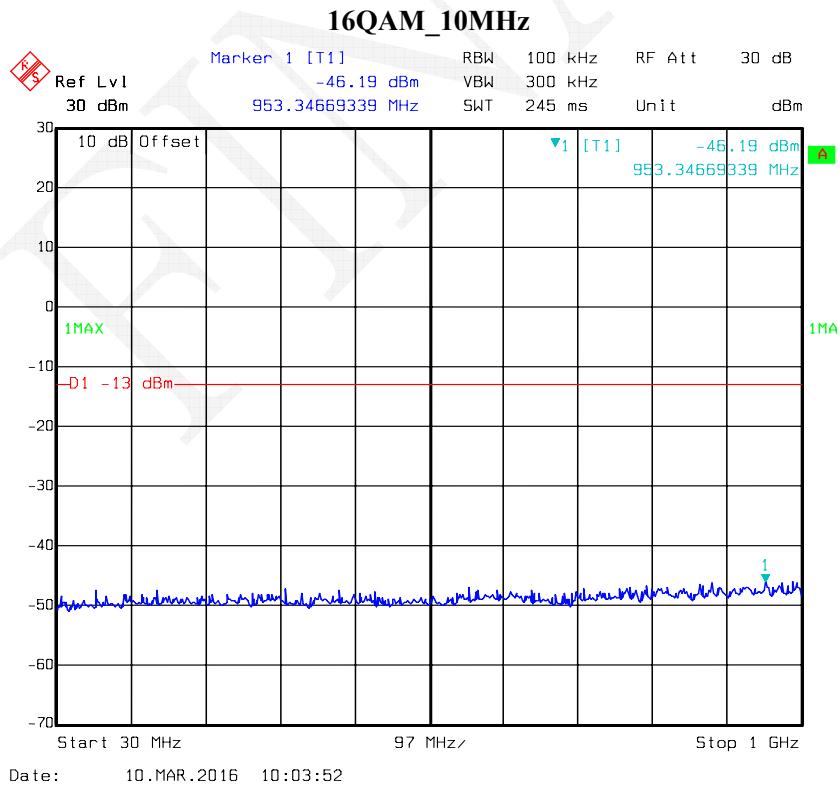
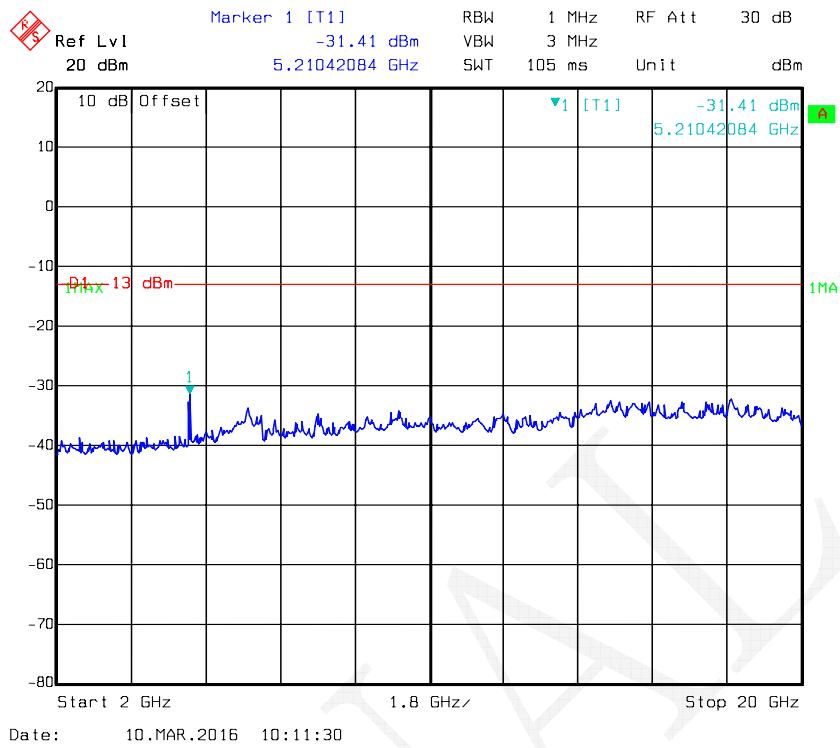


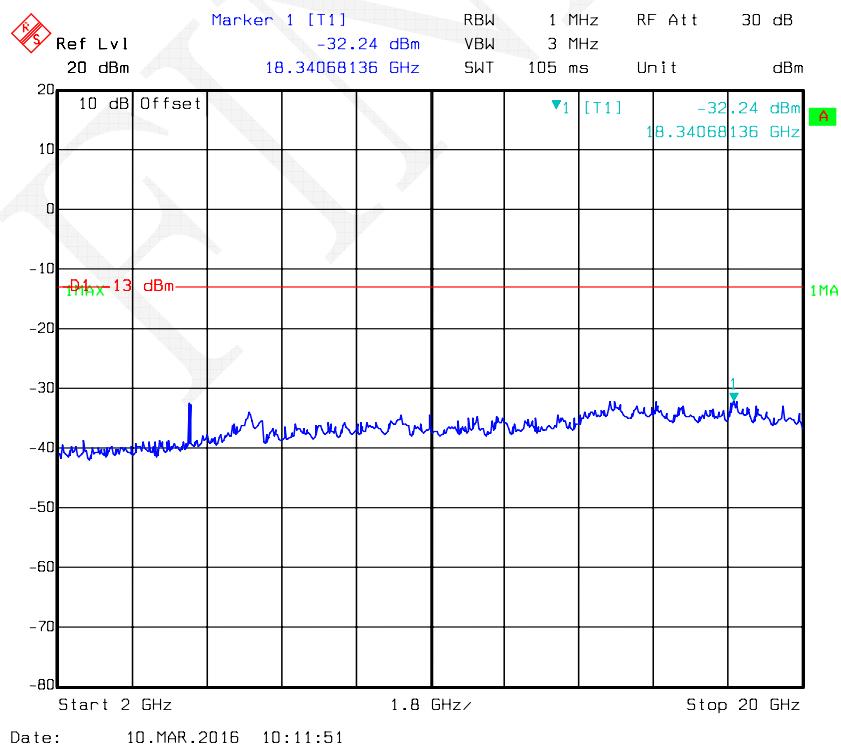
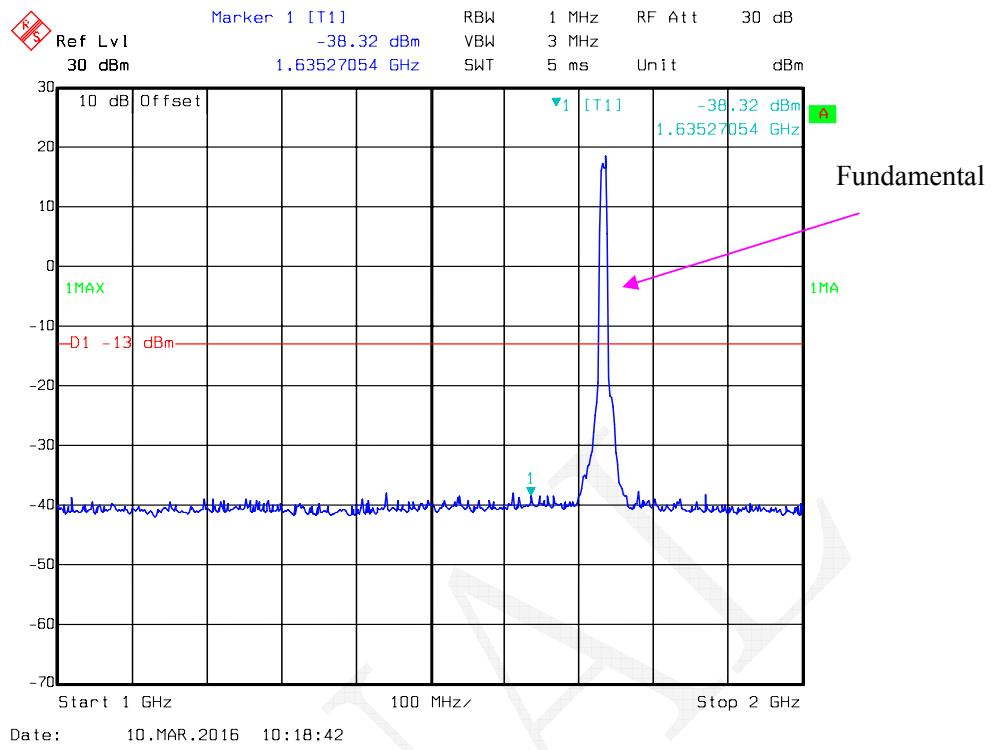
16QAM_1.4 MHz

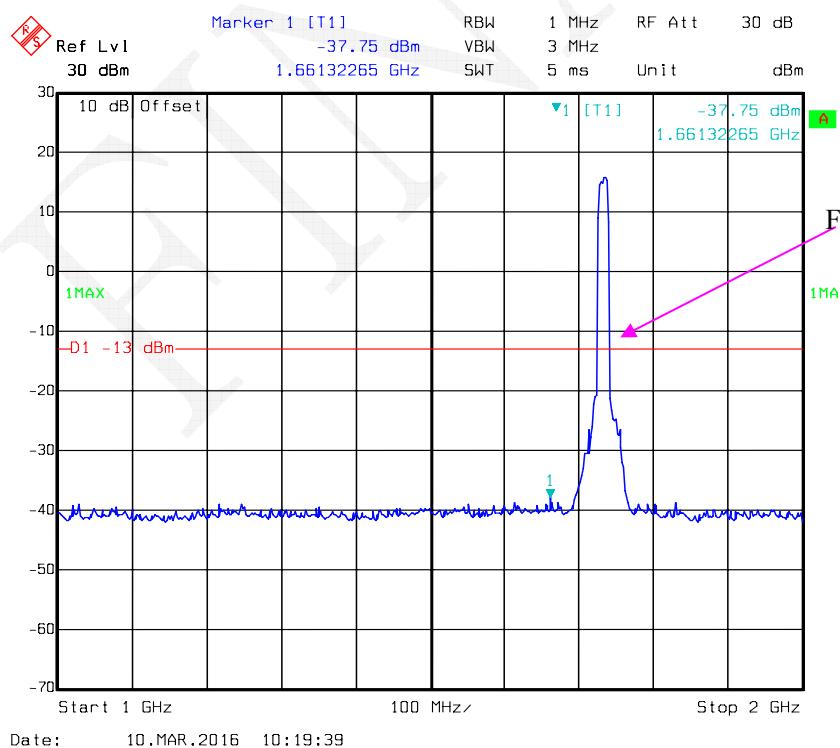
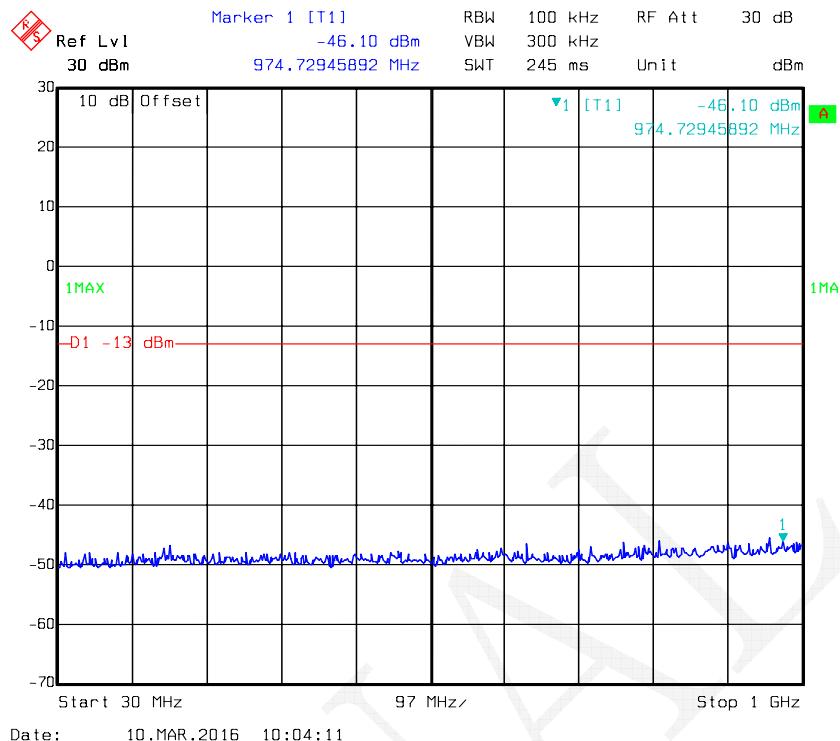


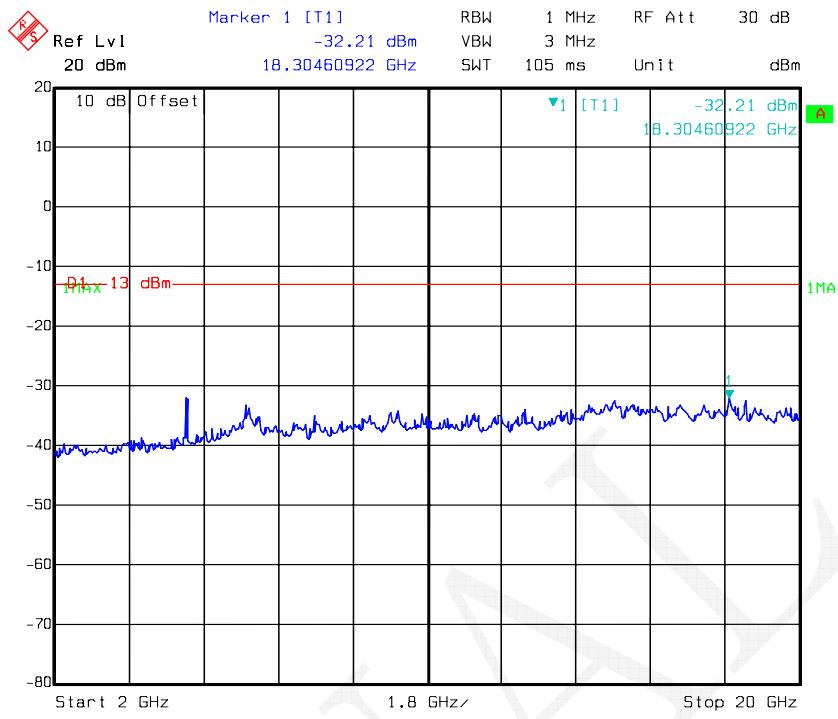


16QAM_5MHz

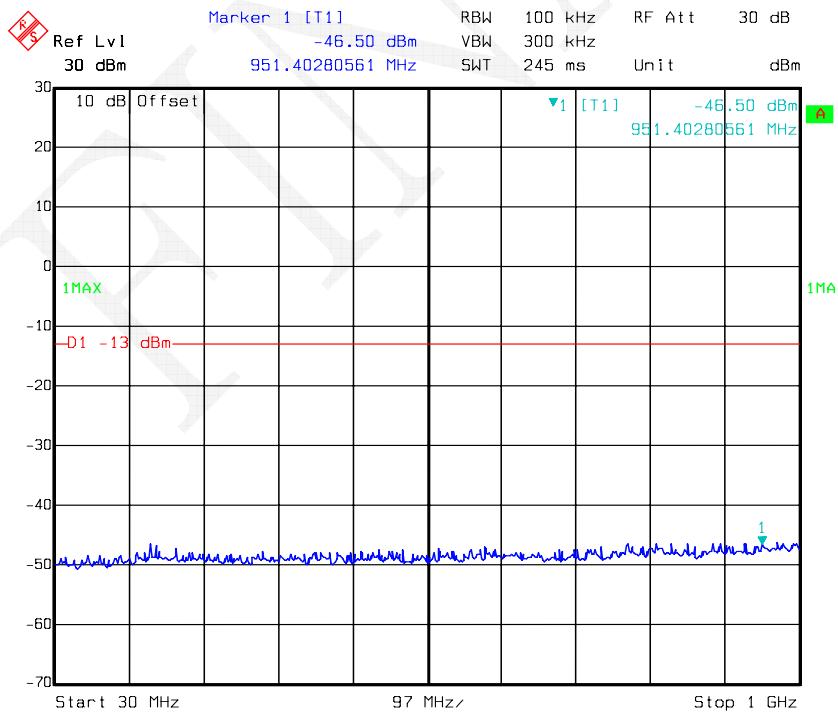




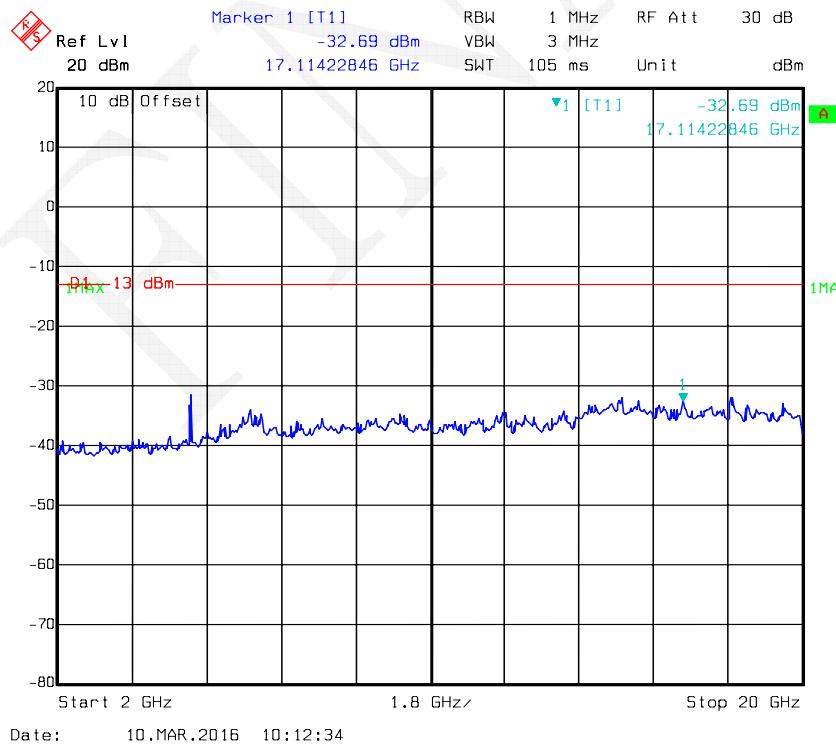
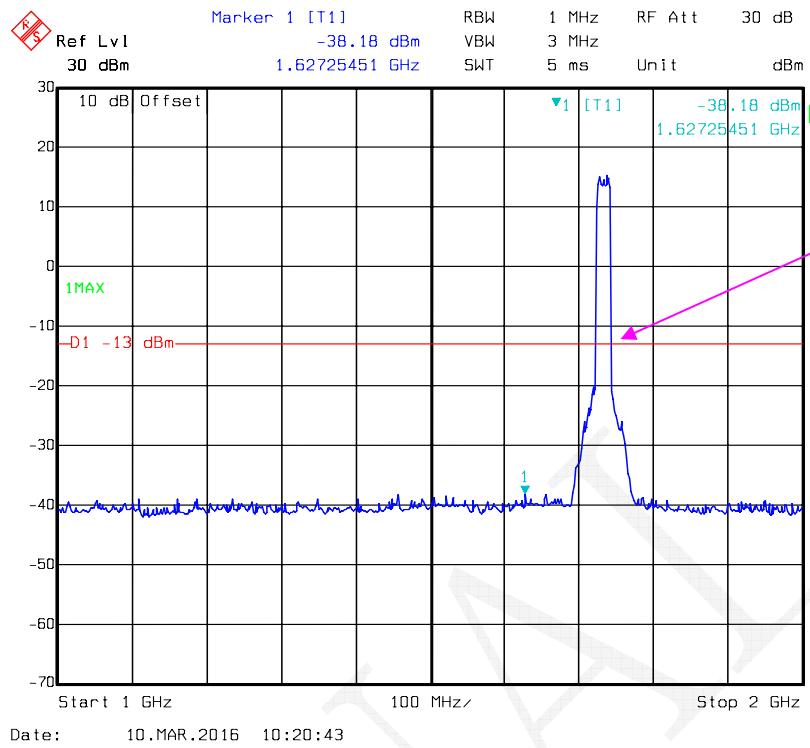
16QAM_15 MHz

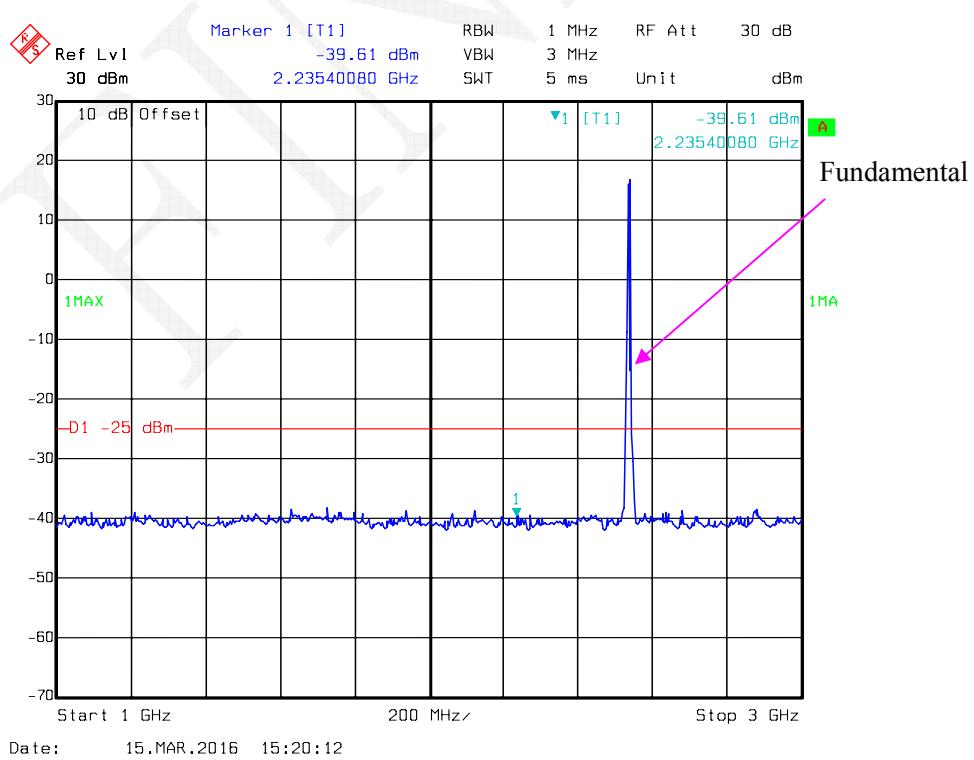
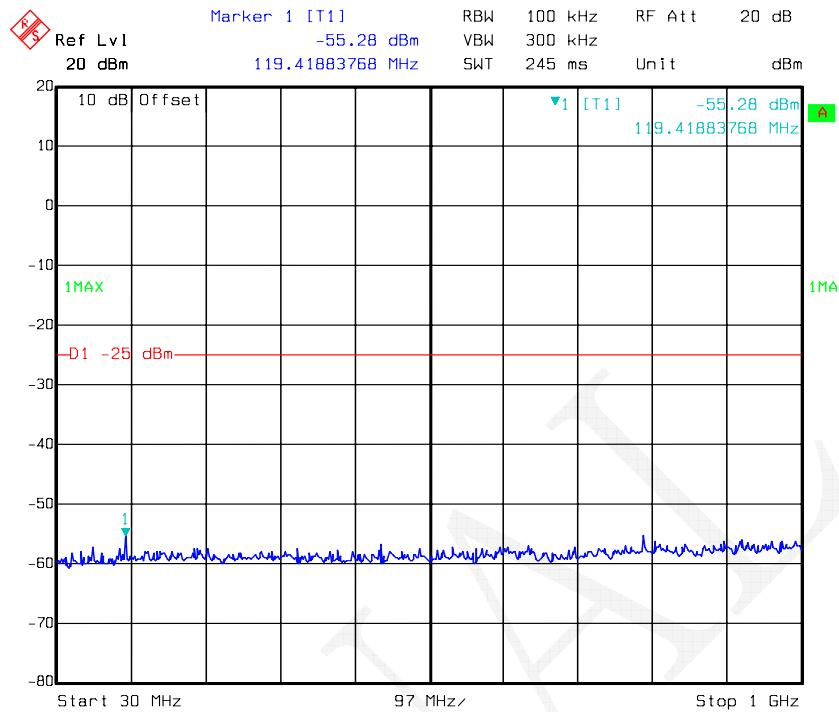


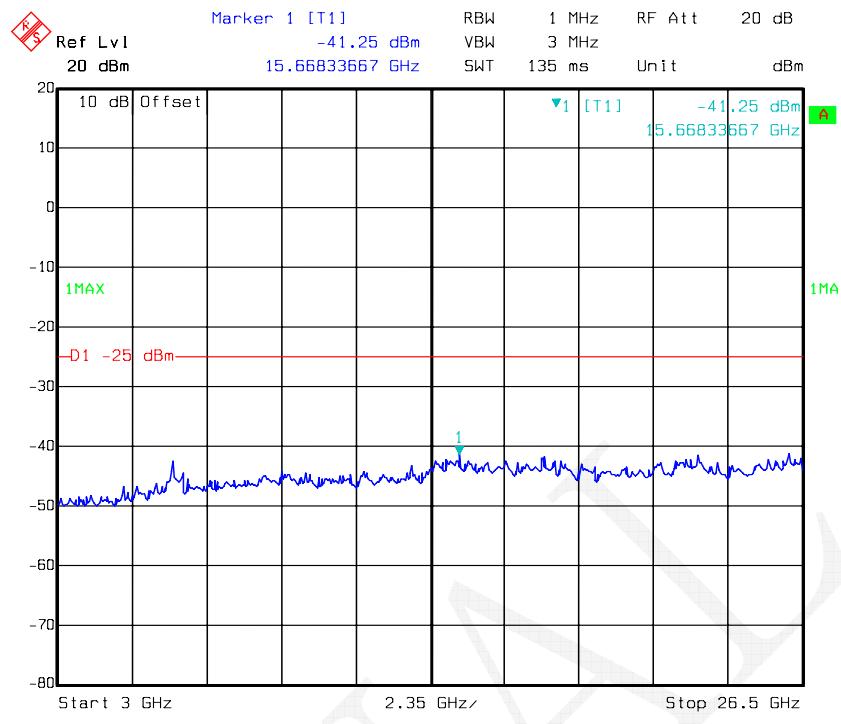
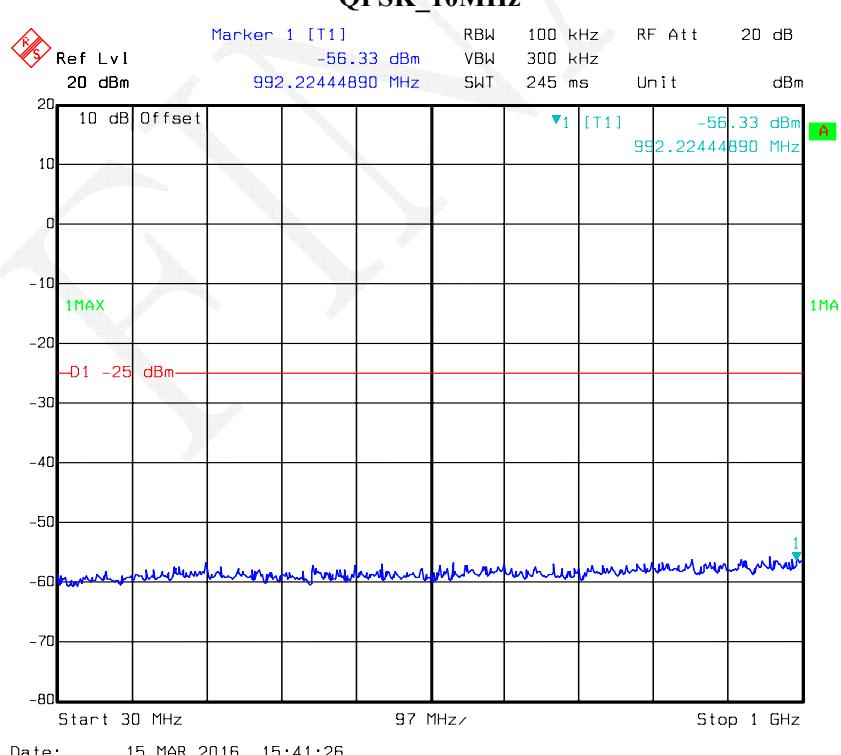
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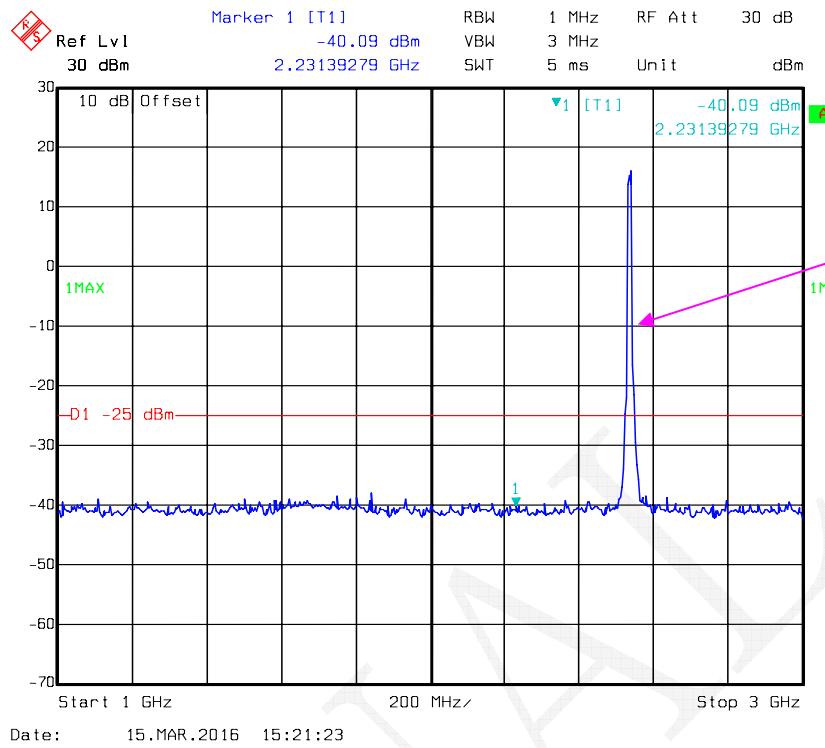
16QAM_20 MHz

Date: 10.MAR.2016 10:04:34

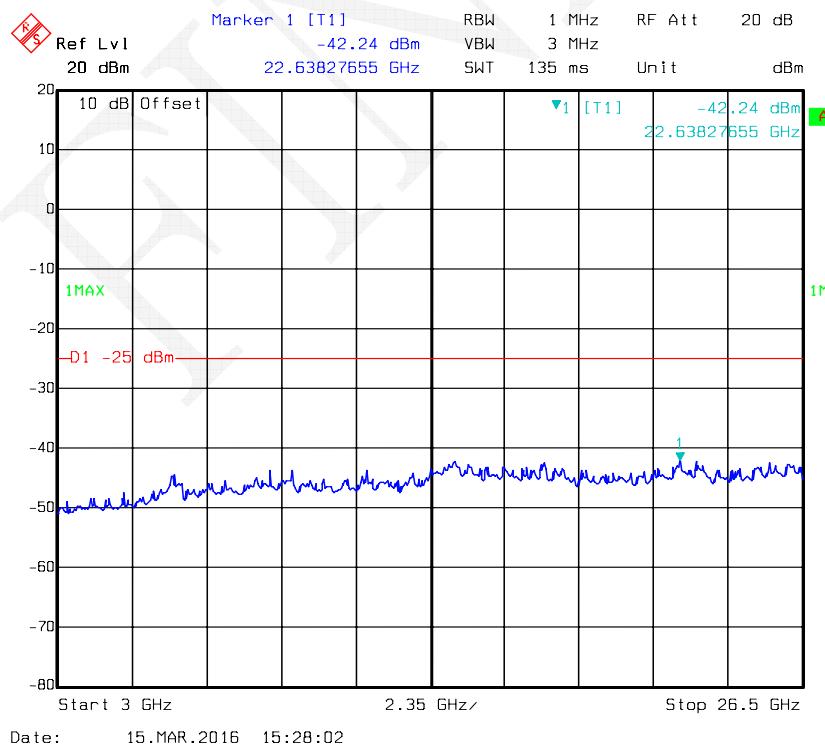


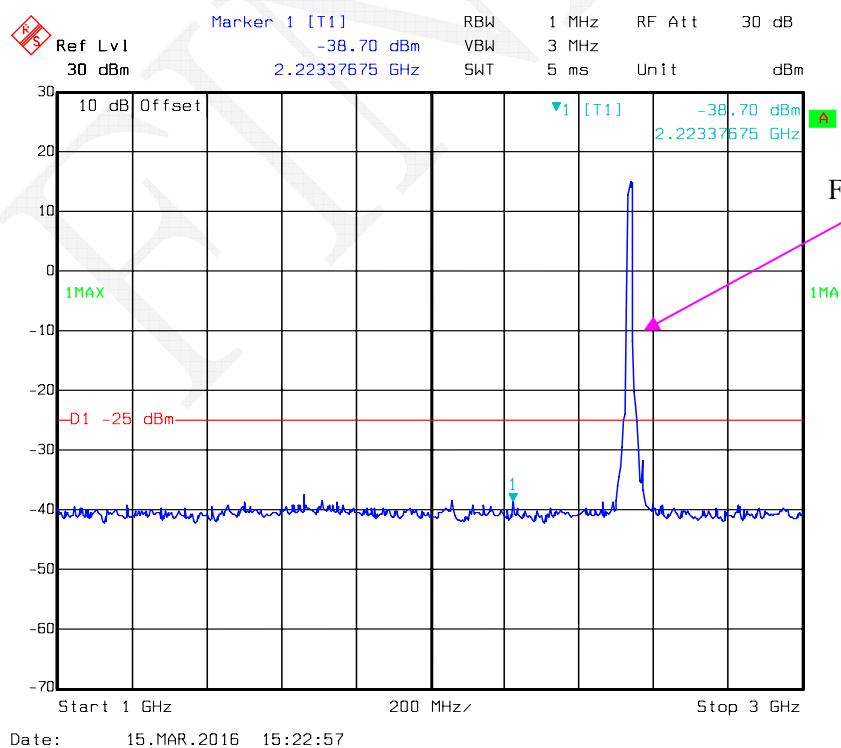
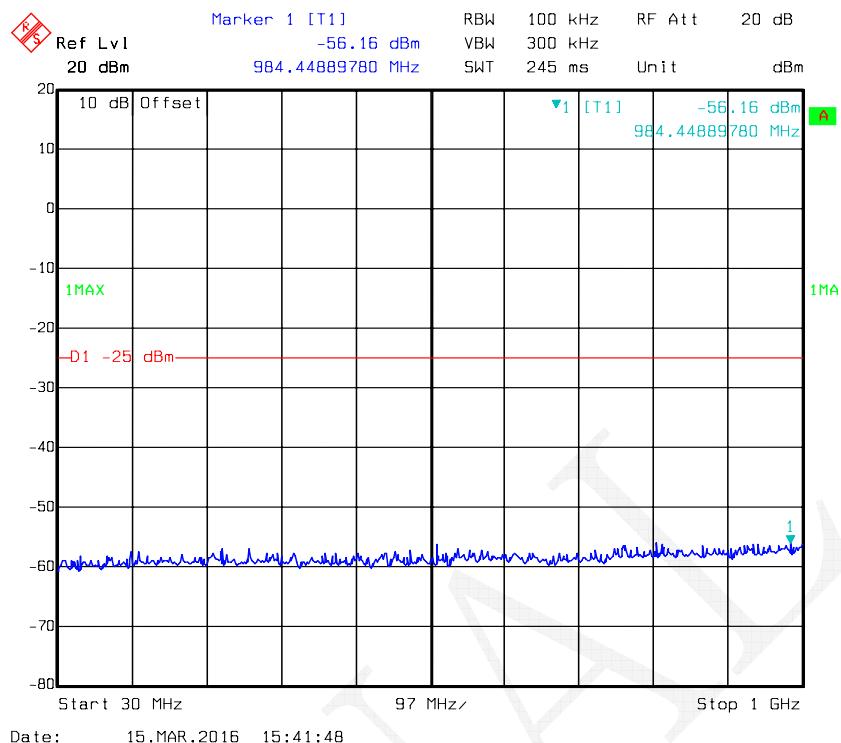
LTE Band VII (Middle Channel)**QPSK_5MHz**

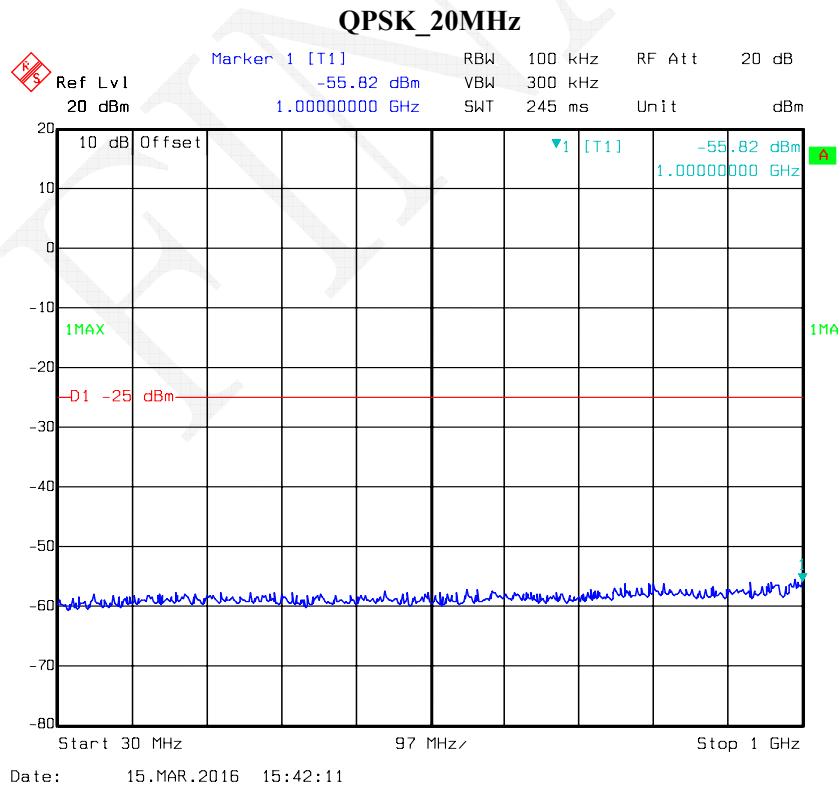
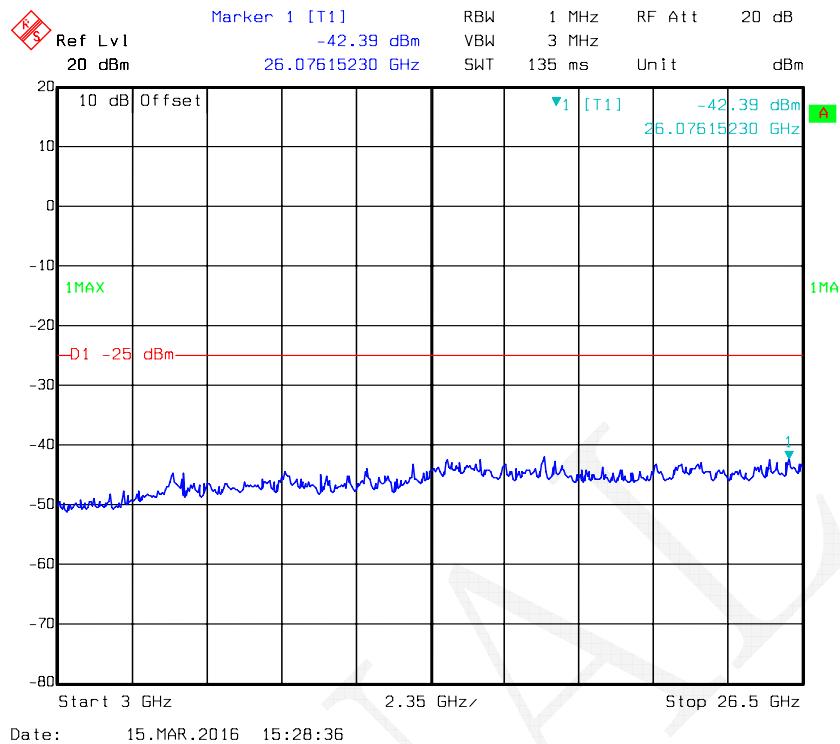
**QPSK_10MHz**

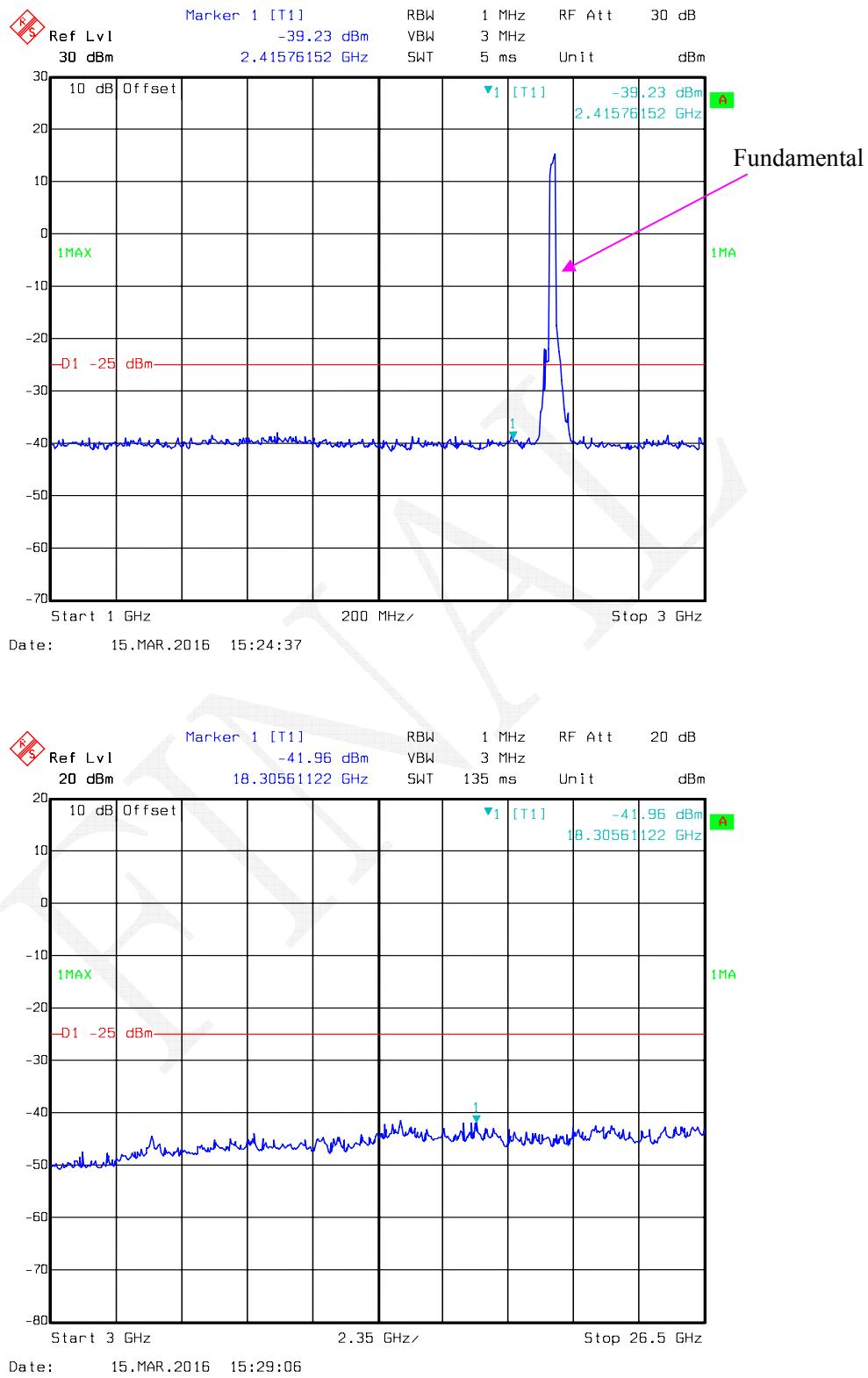


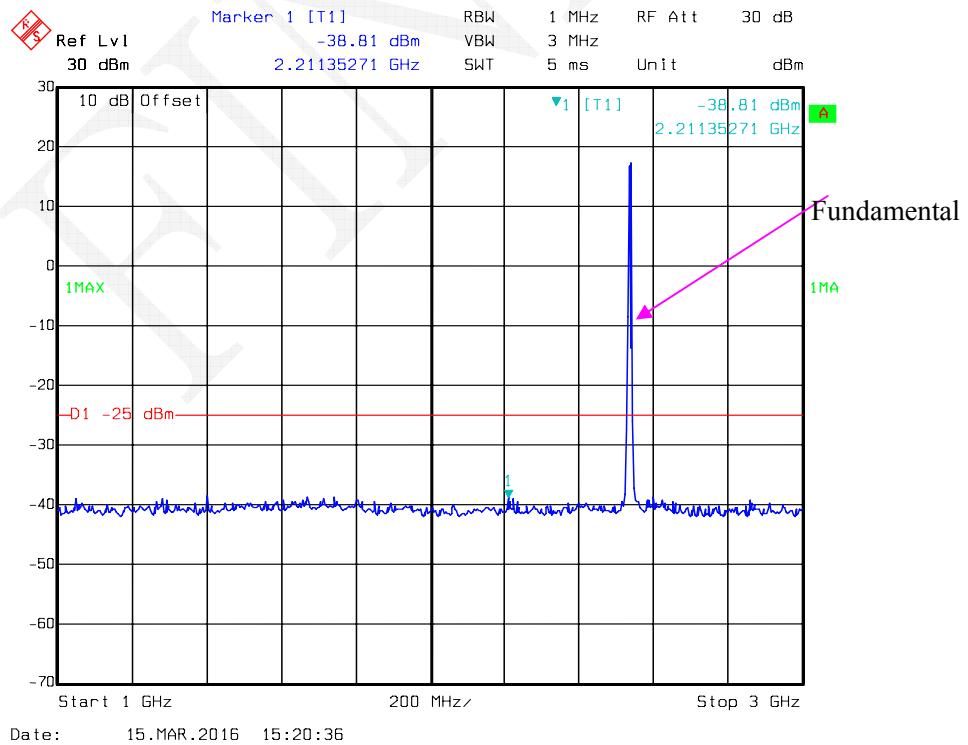
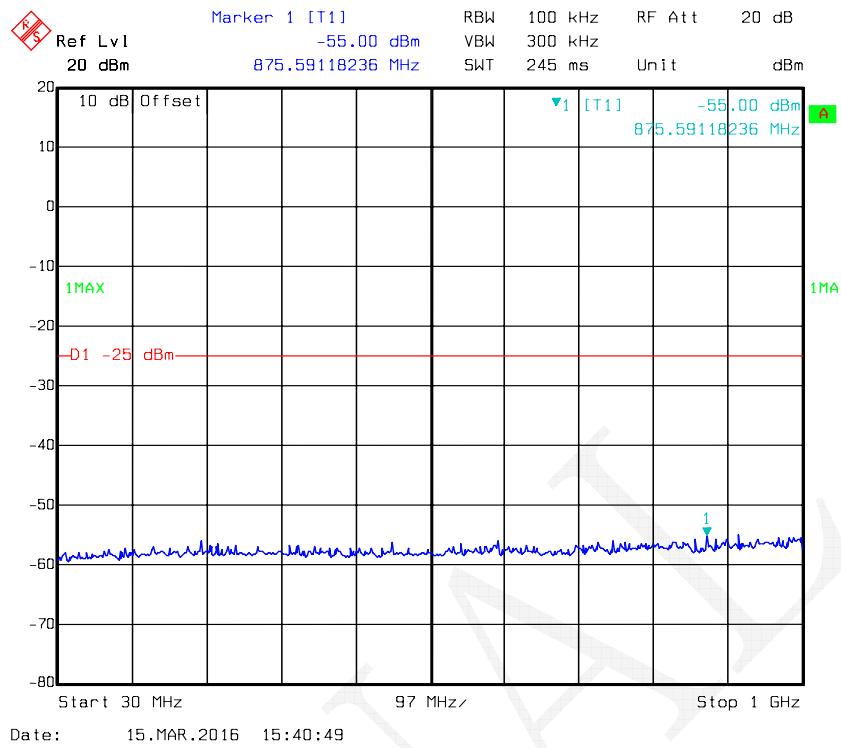
Fundamental

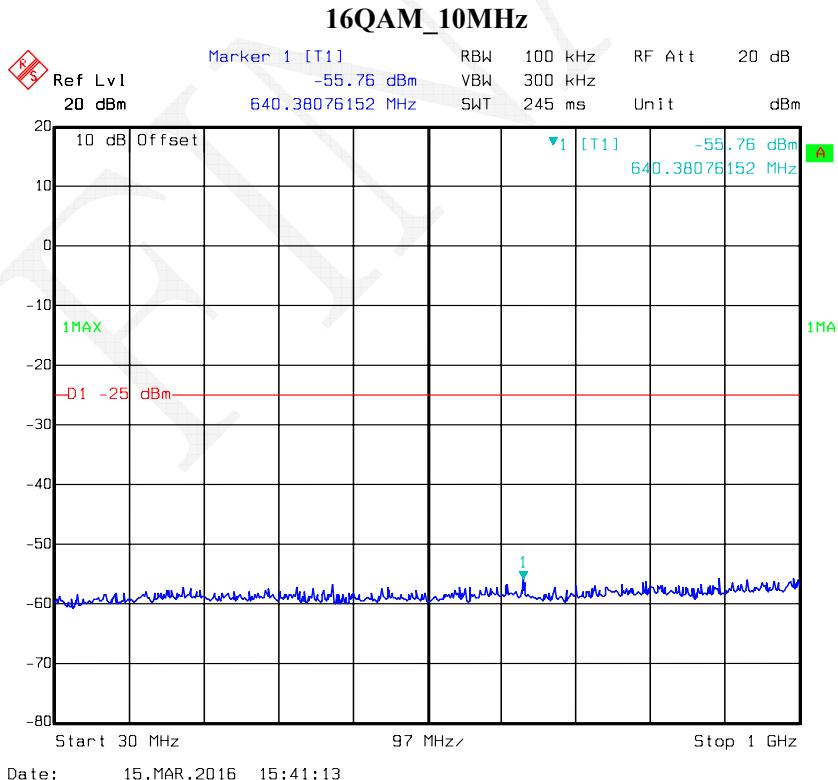
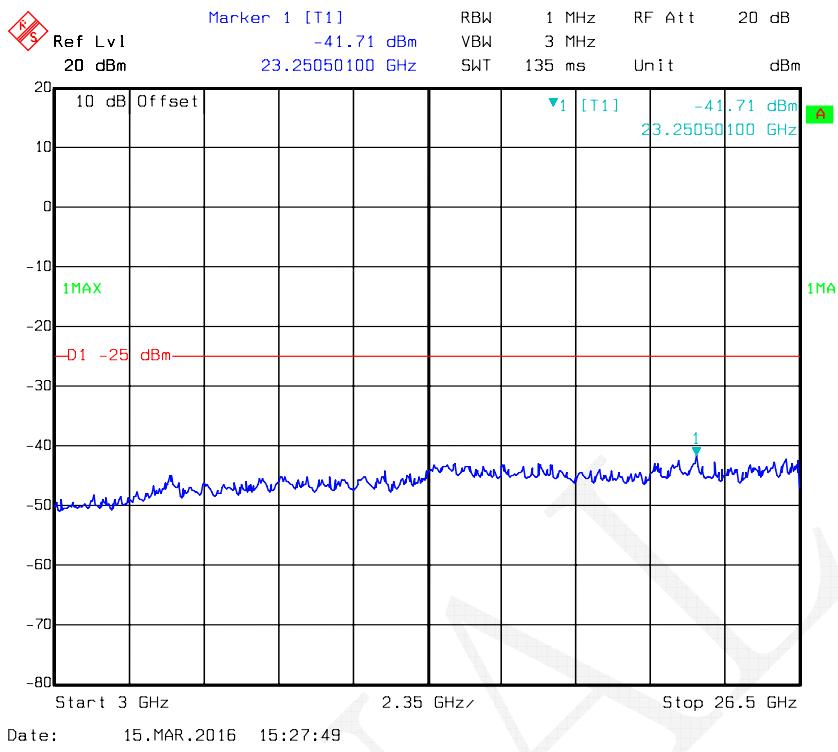


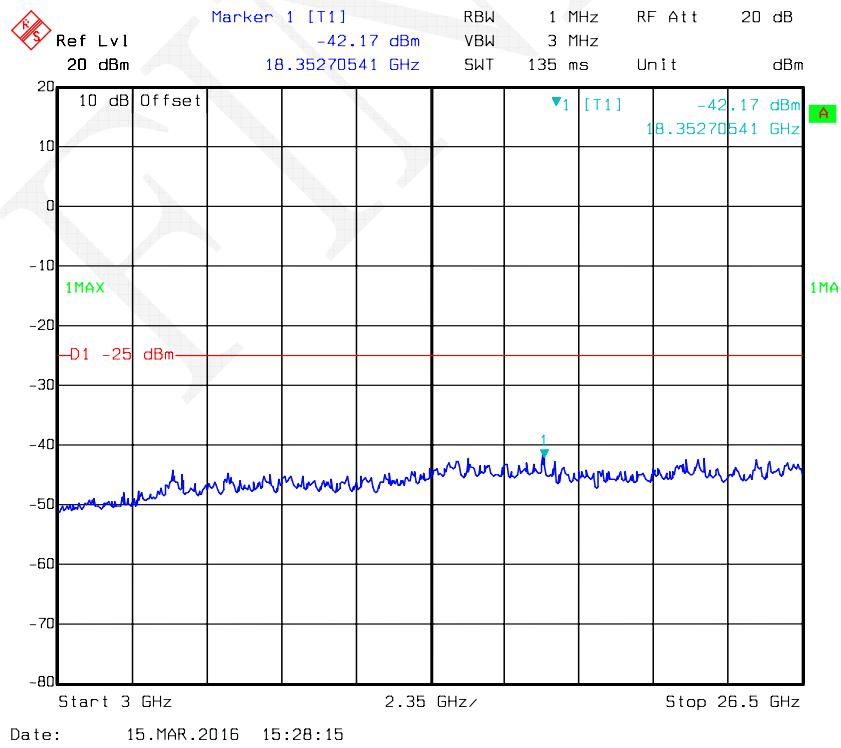
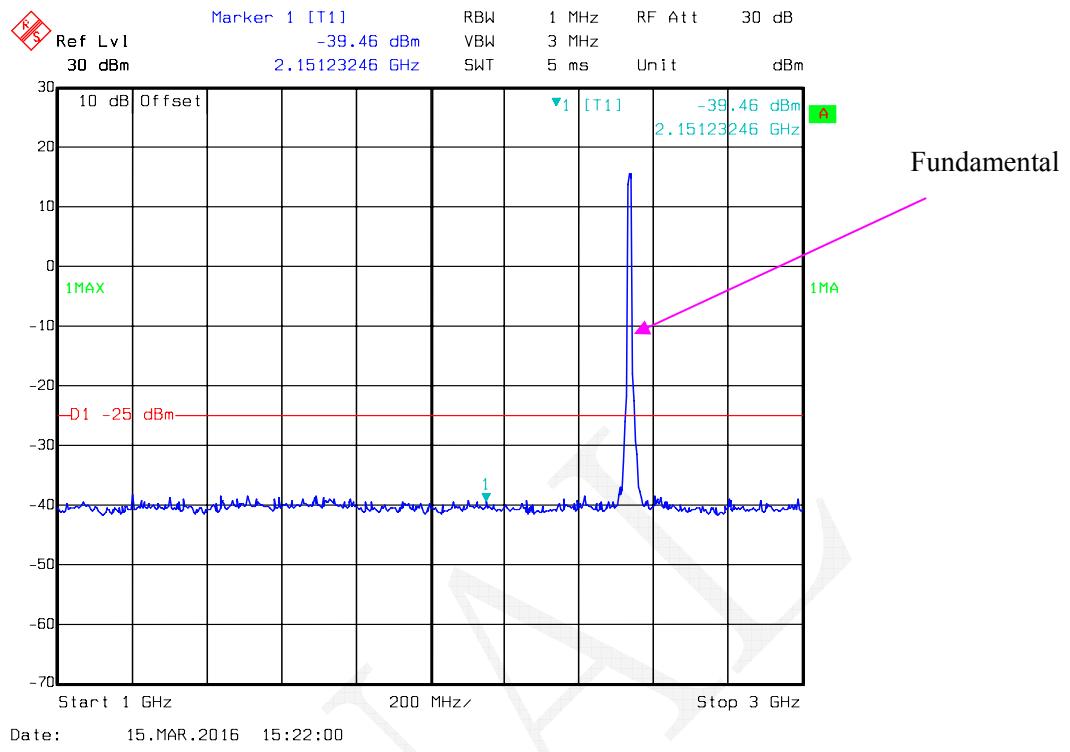
QPSK_15MHz

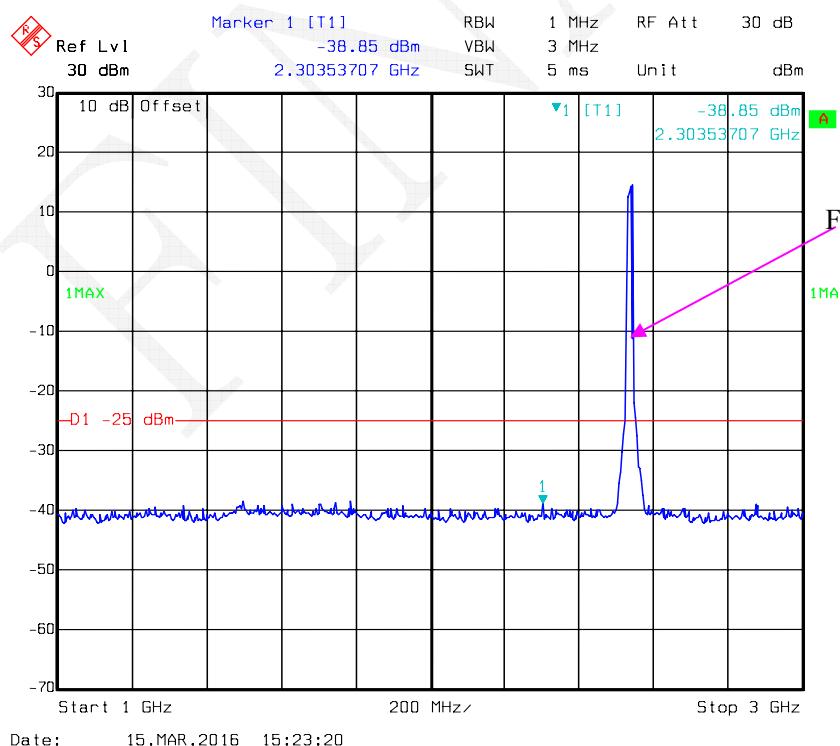
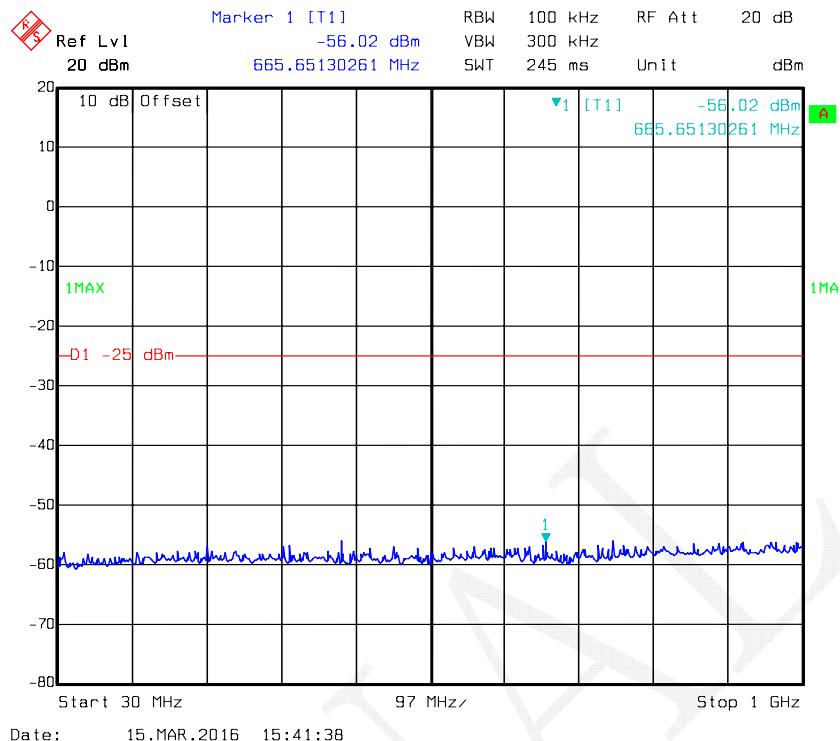


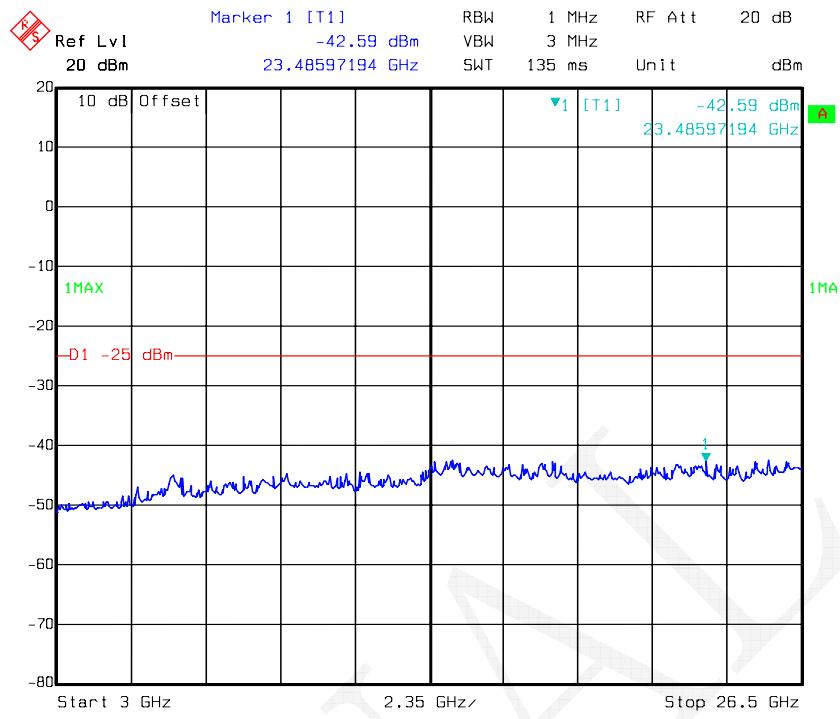
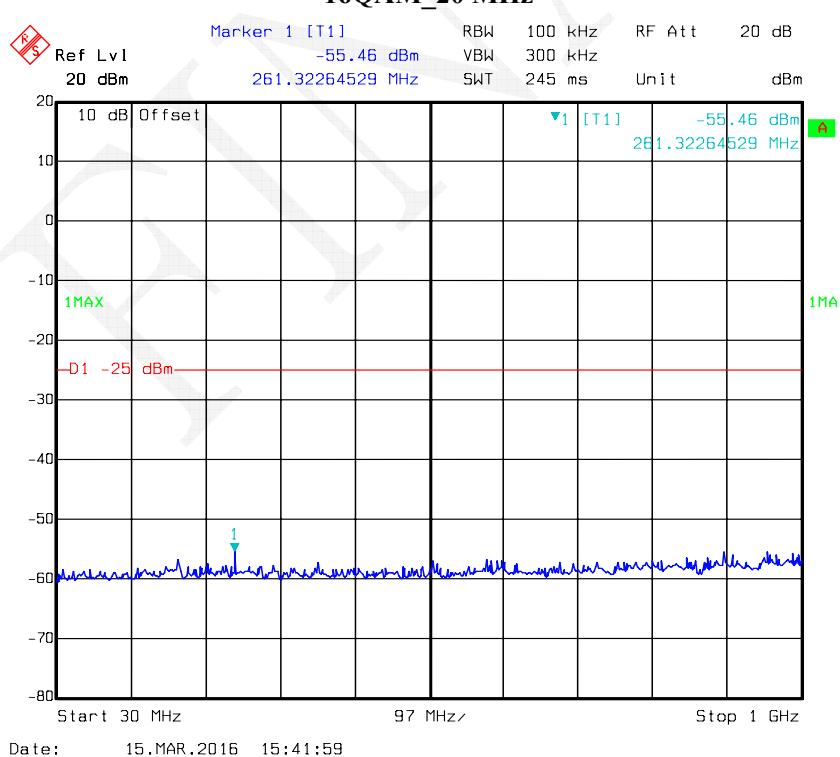


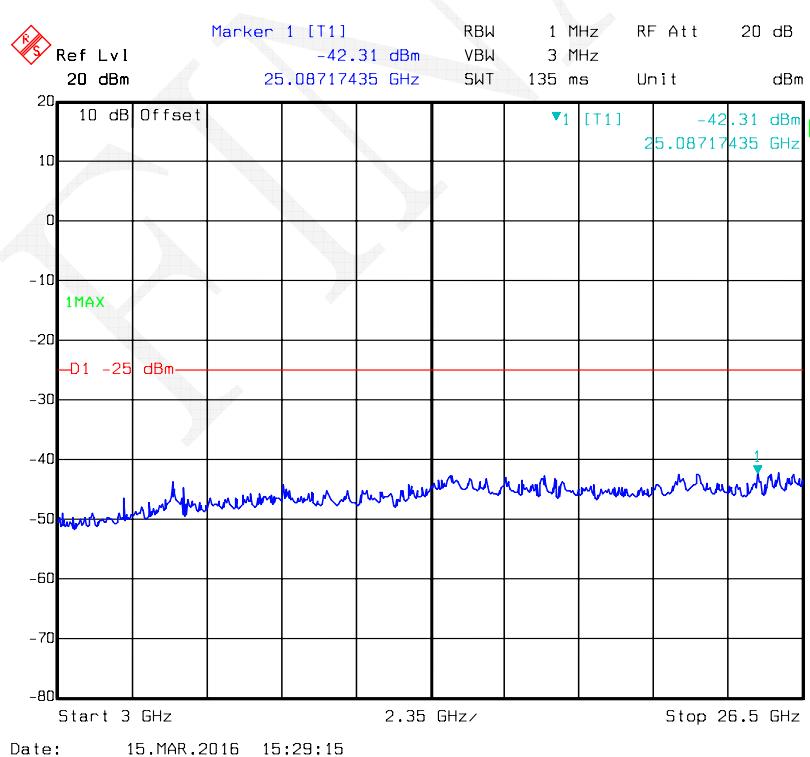
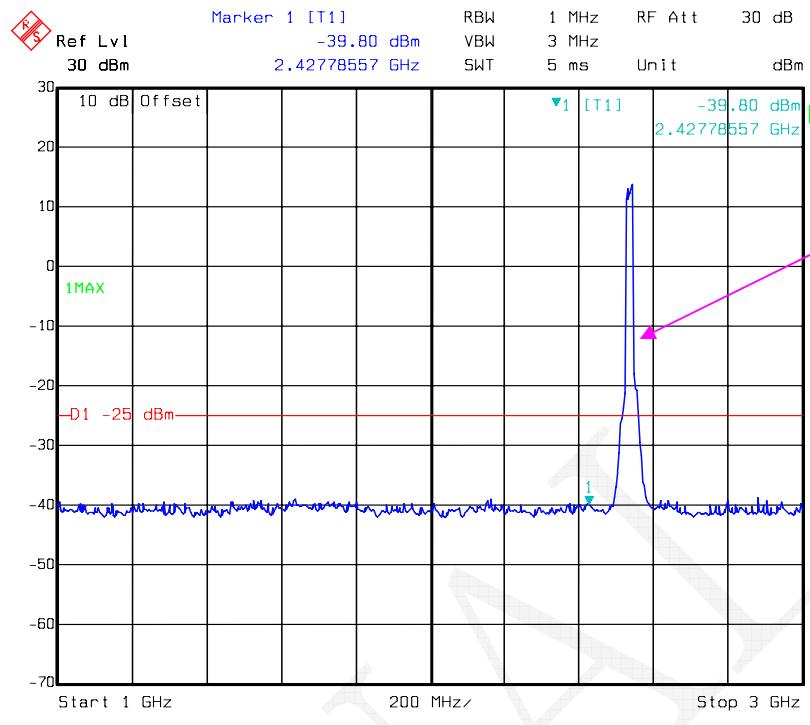
16QAM_5MHz

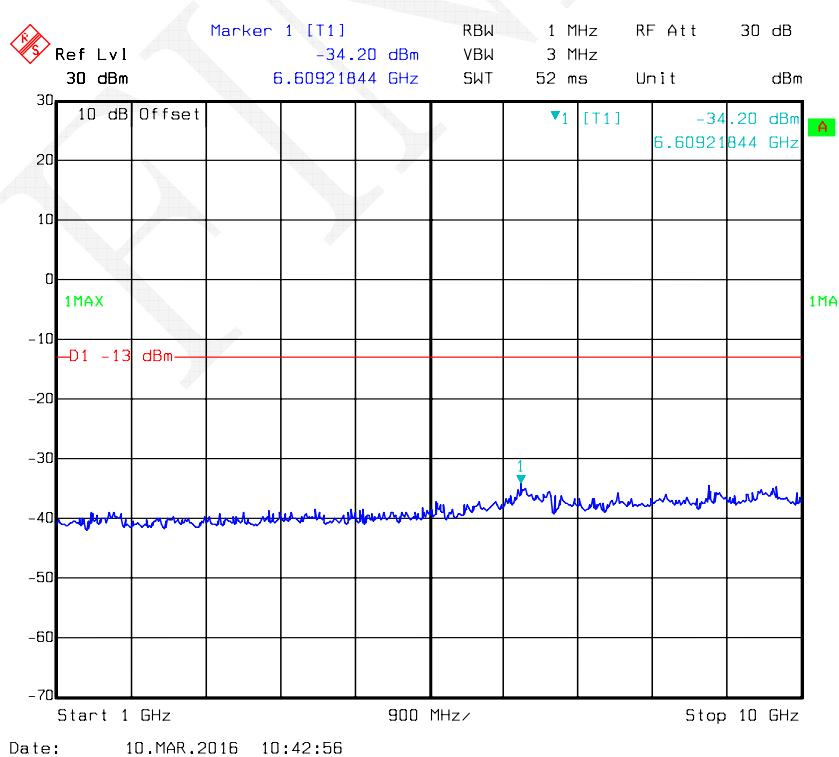
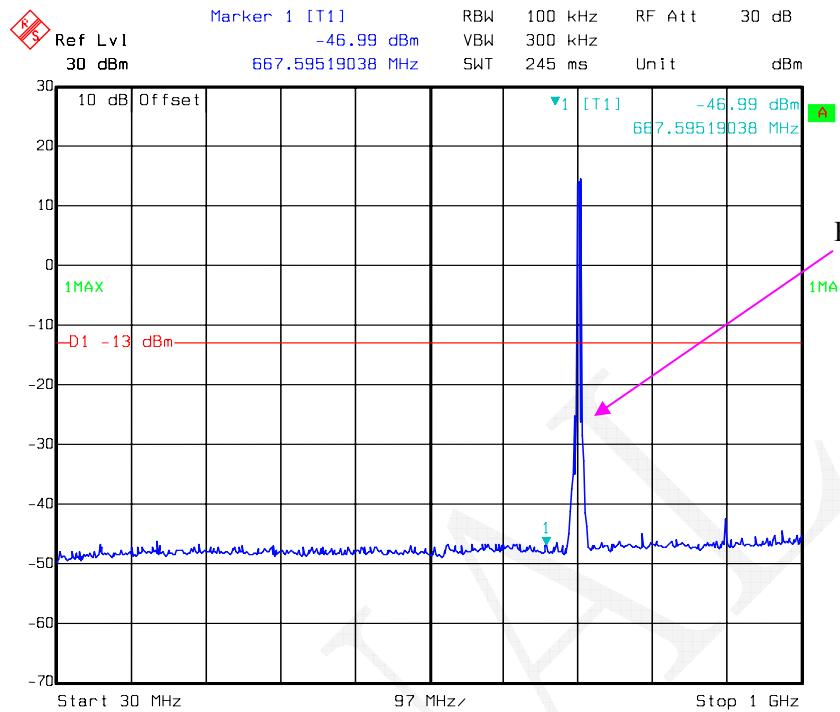


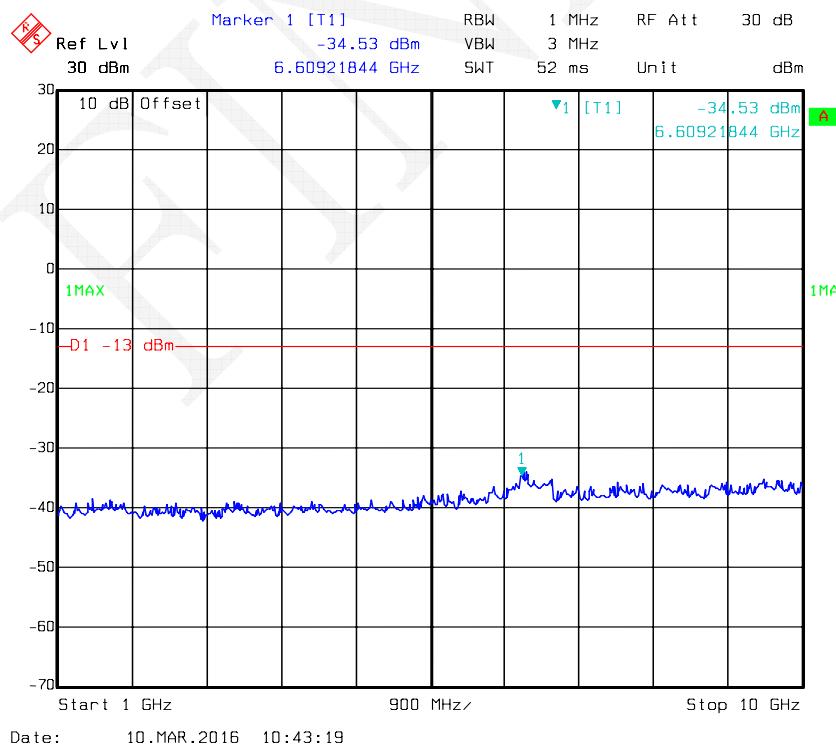


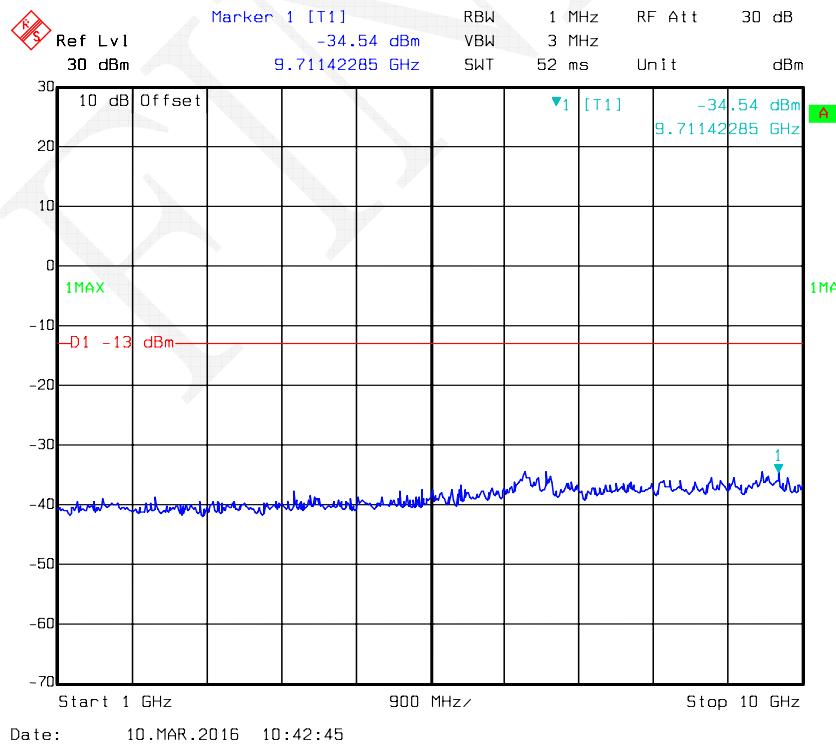
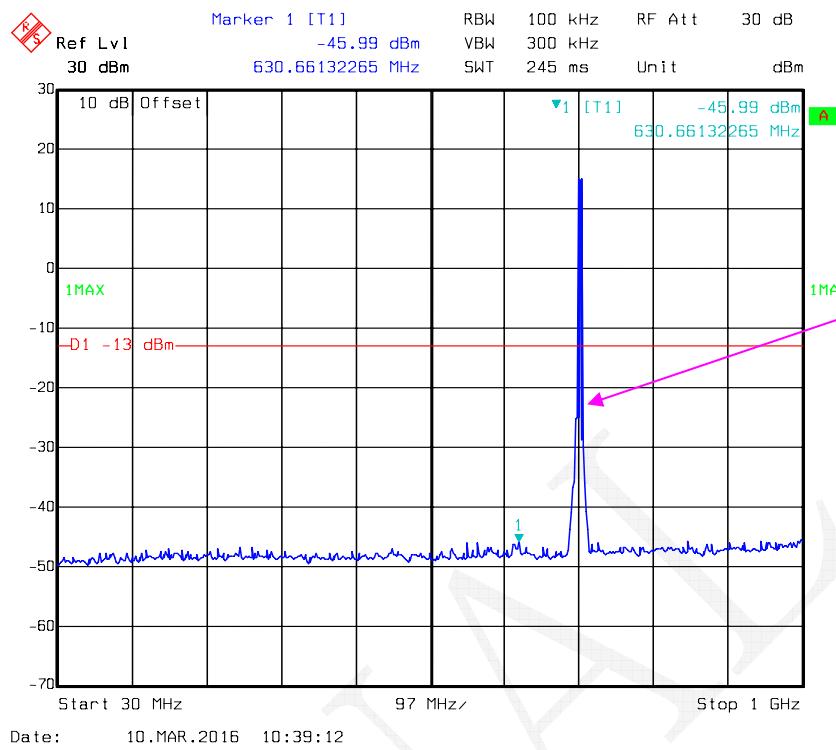
16QAM_15 MHz

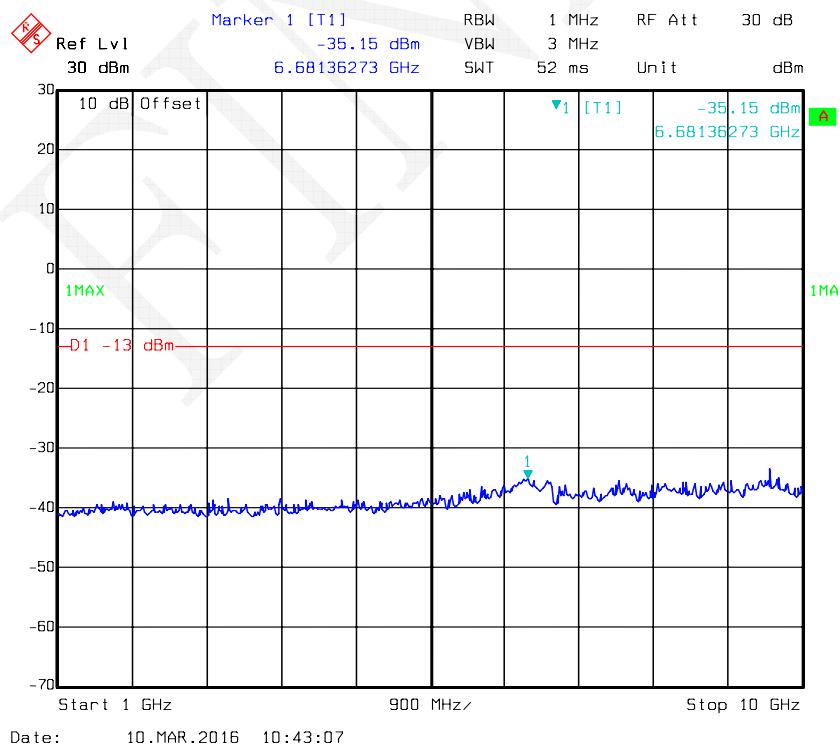
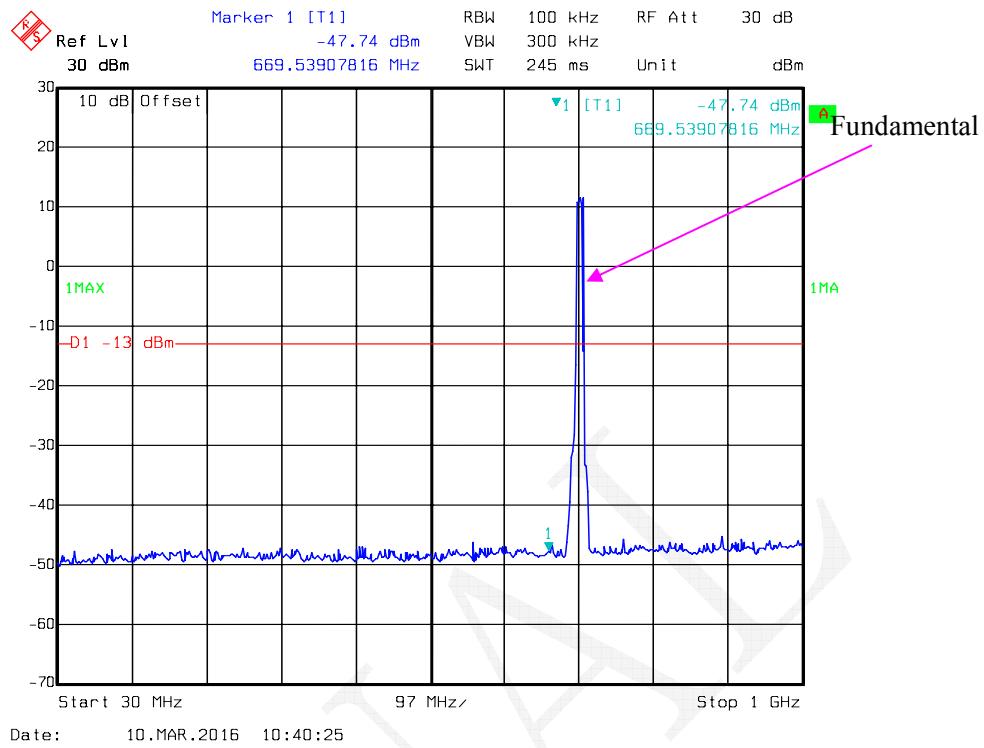
**16QAM_20 MHz**



LTE Band 17 (Middle Channel)**QPSK_5MHz**

QPSK_10MHz

16QAM_5MHz

16QAM_10MHz

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

Applicable Standard

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

Test Procedure

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

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

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

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

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
Giga	Signal Generator	1026	320408	2015-05-09	2016-05-09
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2015-09-06	2018-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	2m	N/A	2015-05-06	2016-05-06
Mini Circuit	High Pass Filter	VHF-3100+	31251	2015-05-06	2016-05-06
Mini Circuit	High Pass Filte	VHF-1200+	N/A	2015-05-06	2016-05-06

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

Test Data

Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	37 %
ATM Pressure:	101.8 kPa

The testing was performed by Allen Qiao on 2016-03-11.

EUT Operation Mode: Transmitting

Cellular Band

30MHz-10 GHz

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM850, Frequency:836.600 MHz								
1673.200	H	46.63	-54.4	10.6	1.5	-45.3	-13.0	32.3
1673.200	V	45.80	-55.6	10.6	1.5	-46.5	-13.0	33.5
2509.800	H	42.26	-55.8	13.1	2.8	-45.5	-13.0	32.5
2509.800	V	41.21	-55.9	13.1	2.8	-45.6	-13.0	32.6
3346.400	H	51.15	-46.3	13.8	1.7	-34.2	-13.0	21.2
3346.400	V	48.90	-48.2	13.8	1.7	-36.1	-13.0	23.1
176.300	H	37.82	-71	0.0	0.4	-71.4	-13.0	58.4
192.800	V	36.94	-69	0.0	0.5	-69.5	-13.0	56.5
WCDMA Band V R99, Frequency:836.600 MHz								
1673.200	H	39.38	-61.7	10.6	1.5	-52.6	-13.0	39.6
1673.200	V	37.42	-64	10.6	1.5	-54.9	-13.0	41.9
176.300	H	37.83	-71	0.0	0.4	-71.4	-13.0	58.4
192.800	V	36.91	-69.1	0.0	0.5	-69.6	-13.0	56.6

PCS Band**30MHz-20GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM1900, Frequency:1880.000 MHz								
3760.000	H	49.43	-44.9	13.8	2.9	-34.0	-13.0	21.0
3760.000	V	46.24	-46.8	13.8	2.9	-35.9	-13.0	22.9
176.300	H	37.79	-71	0.0	0.4	-71.4	-13.0	58.4
192.800	V	36.91	-69.1	0.0	0.5	-69.6	-13.0	56.6
WCDMA Band II, R99, Frequency:1880.000 MHz								
3760.000	H	34.02	-60.3	13.8	2.9	-49.4	-13.0	36.4
3760.000	V	36.59	-56.5	13.8	2.9	-45.6	-13.0	32.6
176.300	H	37.76	-71.1	0.0	0.4	-71.5	-13.0	58.5
192.800	V	36.88	-69.1	0.0	0.5	-69.6	-13.0	56.6

AWS Band**30MHz-20GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, R99, Frequency:1732.600 MHz								
3465.200	H	34.66	-62.3	13.9	1.9	-50.3	-13.0	37.3
3465.200	V	34.23	-61.9	13.9	1.9	-49.9	-13.0	36.9
176.300	H	37.81	-71	0.0	0.4	-71.4	-13.0	58.4
192.800	V	36.94	-69	0.0	0.5	-69.5	-13.0	56.5

LTE Bands(Worst case as below):**LTE band II(30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:1880.00 MHz								
3760.000	H	36.54	-57.8	13.8	2.9	-46.9	-13.0	33.9
3760.000	V	38.11	-55	13.8	2.9	-44.1	-13.0	31.1
5640.000	H	47.39	-44.3	14.0	2.1	-32.4	-13.0	19.4
5640.000	V	46.03	-45.6	14.0	2.1	-33.7	-13.0	20.7
176.300	H	37.86	-71	0.0	0.4	-71.4	-13.0	58.4
192.800	V	36.65	-69.3	0.0	0.5	-69.8	-13.0	56.8

LTE Band IV(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:1732.50 MHz								
3465.000	H	35.06	-61.9	13.9	1.9	-49.9	-13.0	36.9
3465.000	V	33.97	-62.2	13.9	1.9	-50.2	-13.0	37.2
5197.500	H	43.82	-47.2	14.0	2.3	-35.5	-13.0	22.5
5197.500	V	42.17	-50.4	14.0	2.3	-38.7	-13.0	25.7
176.300	H	37.84	-71	0.0	0.4	-71.4	-13.0	58.4
192.800	V	36.71	-69.3	0.0	0.5	-69.8	-13.0	56.8

LTE Band VII(30MHz-26GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency:2535.00 MHz								
5070.000	H	36.39	-54.9	13.9	2.4	-43.4	-25.0	18.4
5070.000	V	37.80	-54.3	13.9	2.4	-42.8	-25.0	17.8
7605.000	H	36.16	-51.3	13.2	3.1	-41.2	-25.0	16.2
7605.000	V	36.87	-50.6	13.2	3.1	-40.5	-25.0	15.5
176.300	H	37.76	-71.1	0.0	0.4	-71.5	-25.0	46.5
192.800	V	36.83	-69.1	0.0	0.5	-69.6	-25.0	44.6

LTE Band 17(30MHz-10GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 710.00 MHz								
1420.000	H	49.62	-51.3	9.1	1.3	-43.5	-13.0	30.5
1420.000	V	49.03	-51.6	9.1	1.3	-43.8	-13.0	30.8
2130.000	H	36.54	-59.4	11.2	1.4	-49.6	-13.0	36.6
2130.000	V	35.21	-59.6	11.2	1.4	-49.8	-13.0	36.8
176.300	H	37.76	-71.1	0.0	0.4	-71.5	-13.0	58.5
192.800	V	36.69	-69.3	0.0	0.5	-69.8	-13.0	56.8

Note:

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

FCC §22.917(a) & §24.238(a) & §27.53- BAND EDGES

Applicable Standard

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

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

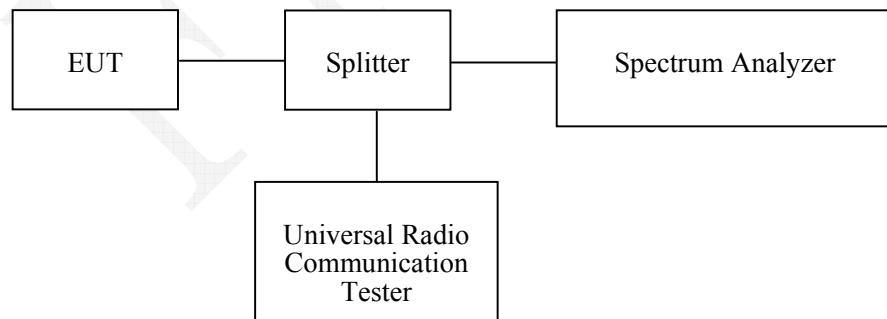
According to §27.53 (h), AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to §27.53 (m), (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Test Procedure

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

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-11-23	2016-11-23
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06
E-Microwave	Attenuator(10dB)	EMCA10-5RN	OE01203239	2015-05-08	2016-05-08
Pasternack	RF Coaxial Cable	RF-01	N/A	2015-05-06	2016-05-06
Pasternack	RF Coaxial Cable	RF-02	N/A	2015-05-06	2016-05-06
N/A	Two-way Spliter	ODP-1-6-2S	OE0120142	2015-05-06	2016-05-06

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

Test Data

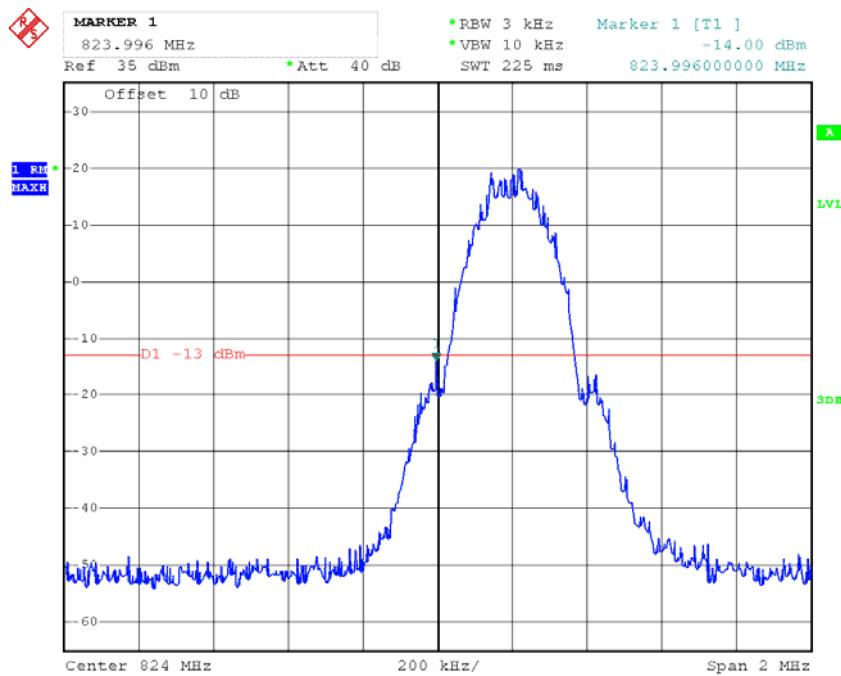
Environmental Conditions

Temperature:	22.8 ~ 28.6 °C
Relative Humidity:	37 ~ 61 %
ATM Pressure:	100.3 ~ 101.8 kPa

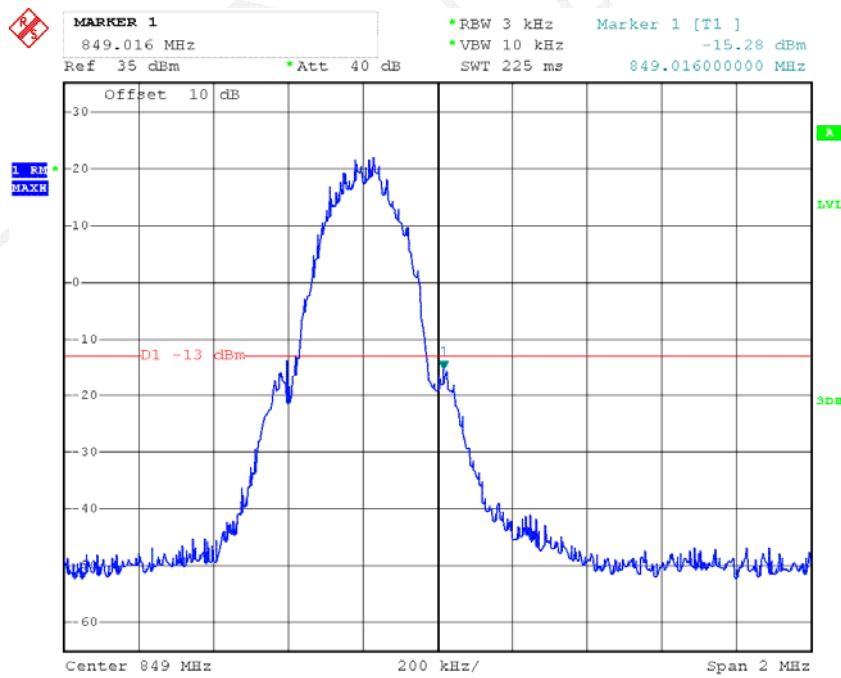
The testing was performed by Allen Qiao from 2016-03-08 to 2016-03-14.

Test Mode: Transmitting

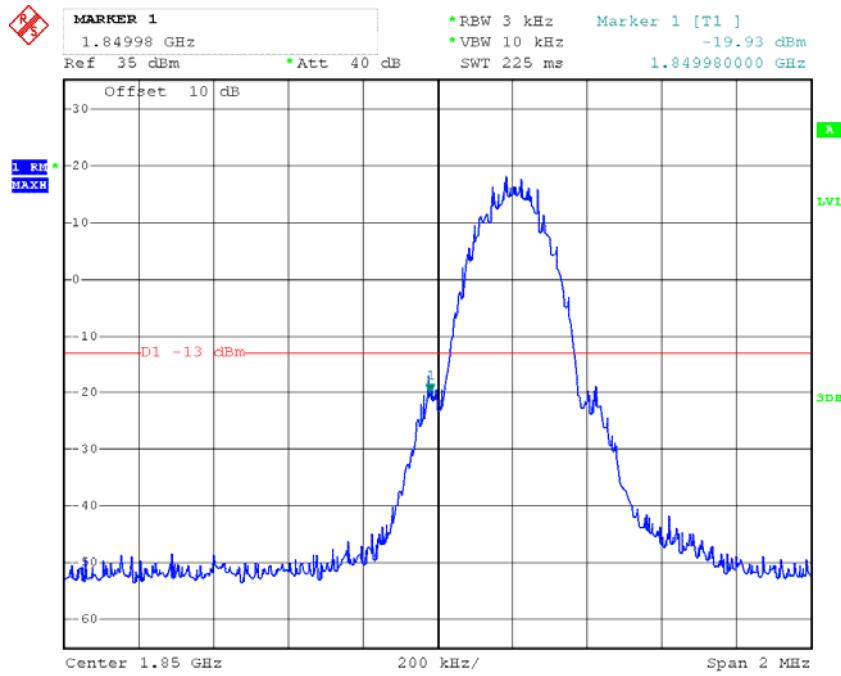
Test Result: Compliant. Please refer to the following plots.

GSM 850, Left Band Edge

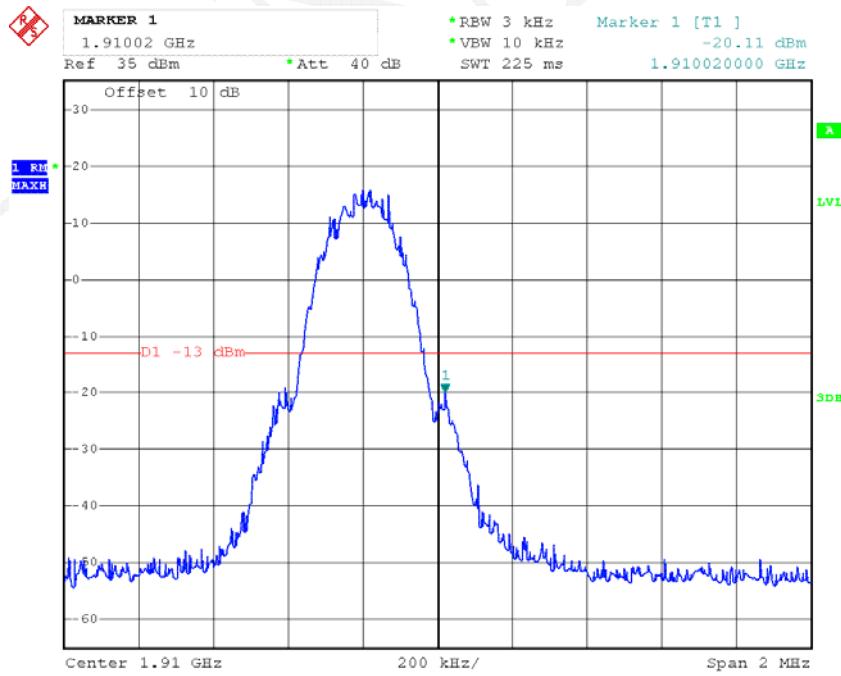
Date: 8.MAR.2016 10:58:13

GSM 850, Right Band Edge

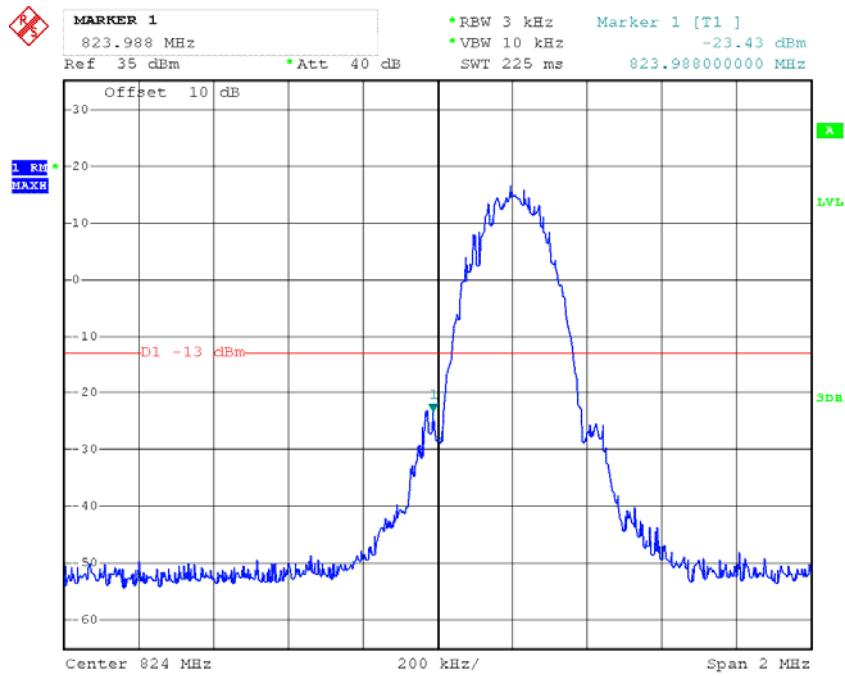
Date: 8.MAR.2016 11:08:39

GSM 1900, Left Band Edge

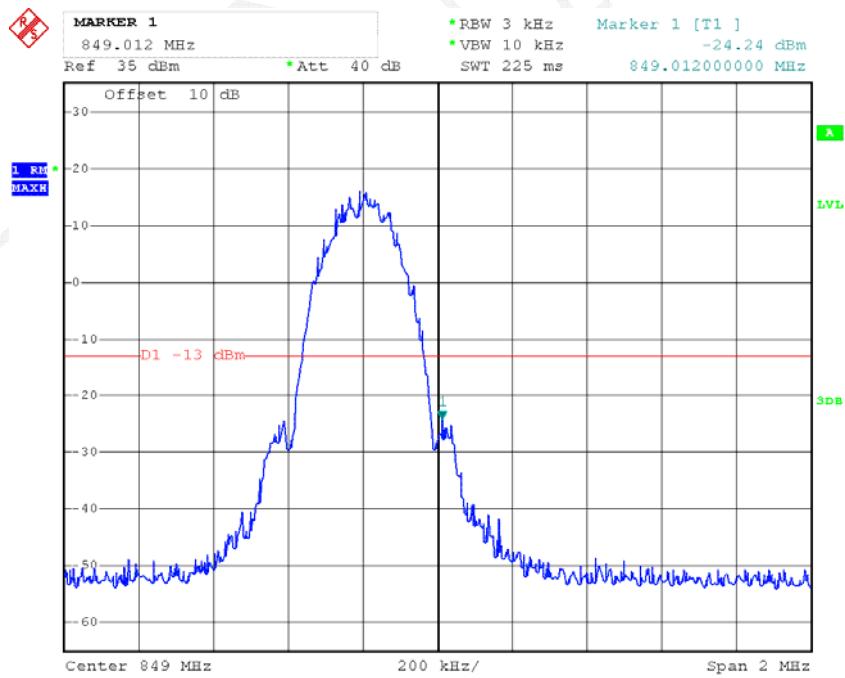
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GSM 1900, Right Band Edge

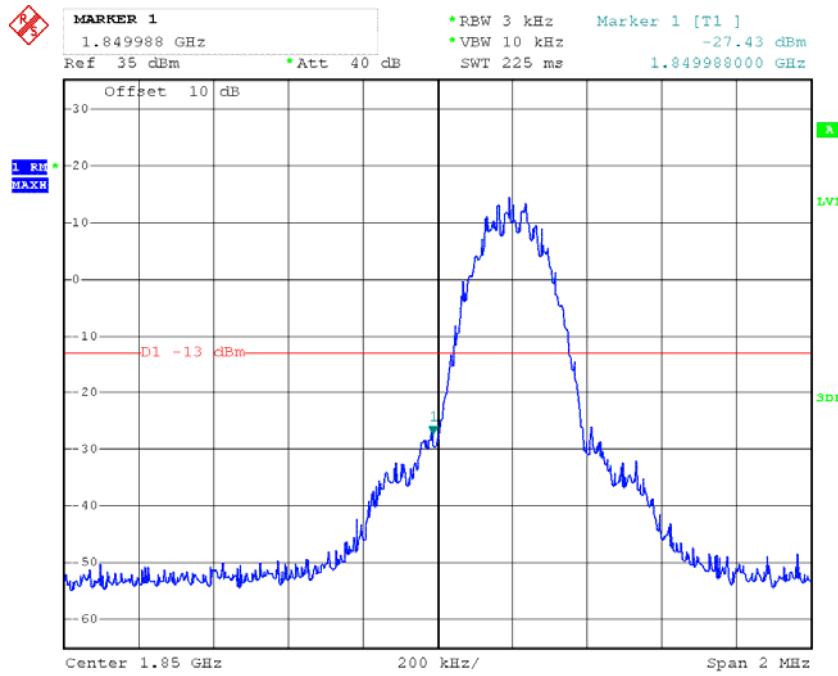
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EDGE 850, Left Band Edge

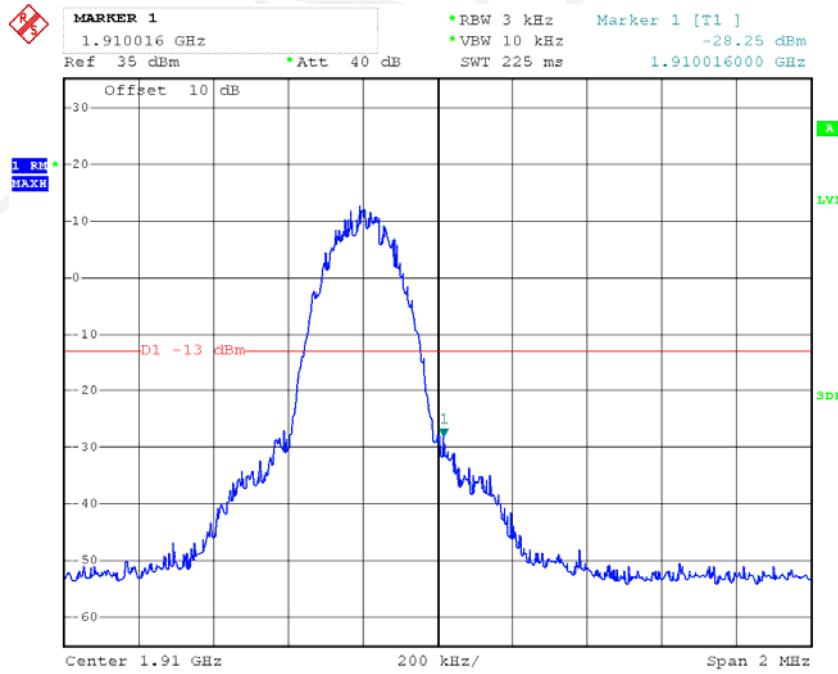
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EDGE 850, Right Band Edge

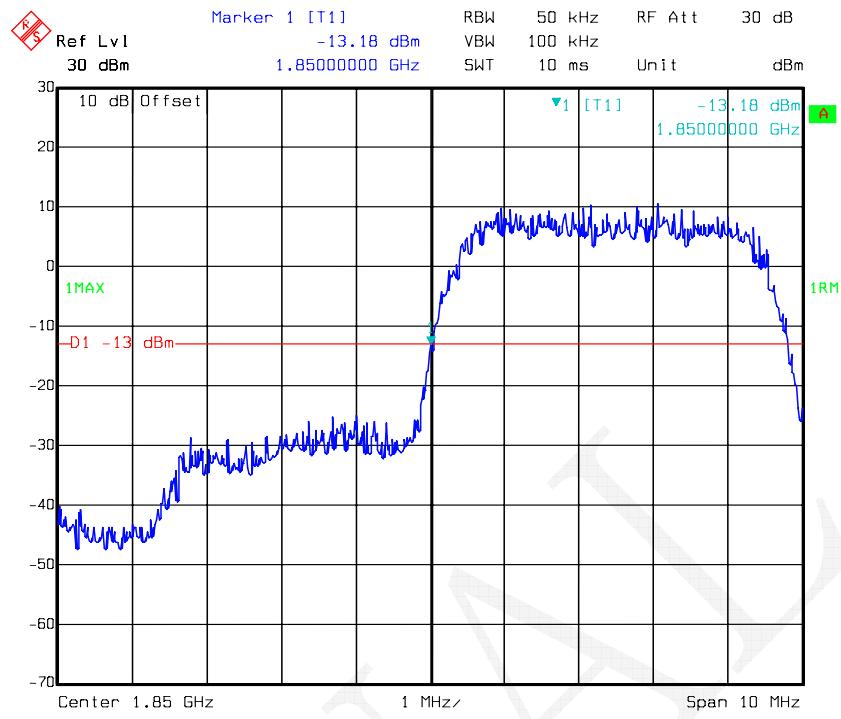
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EDGE 1900, Left Band Edge

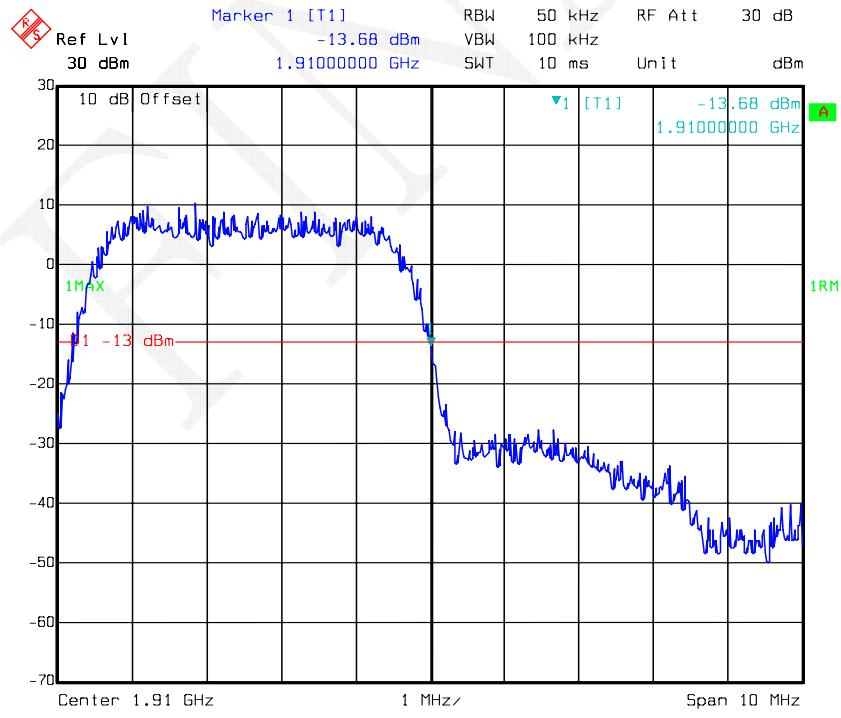
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EDGE 1900, Right Band Edge

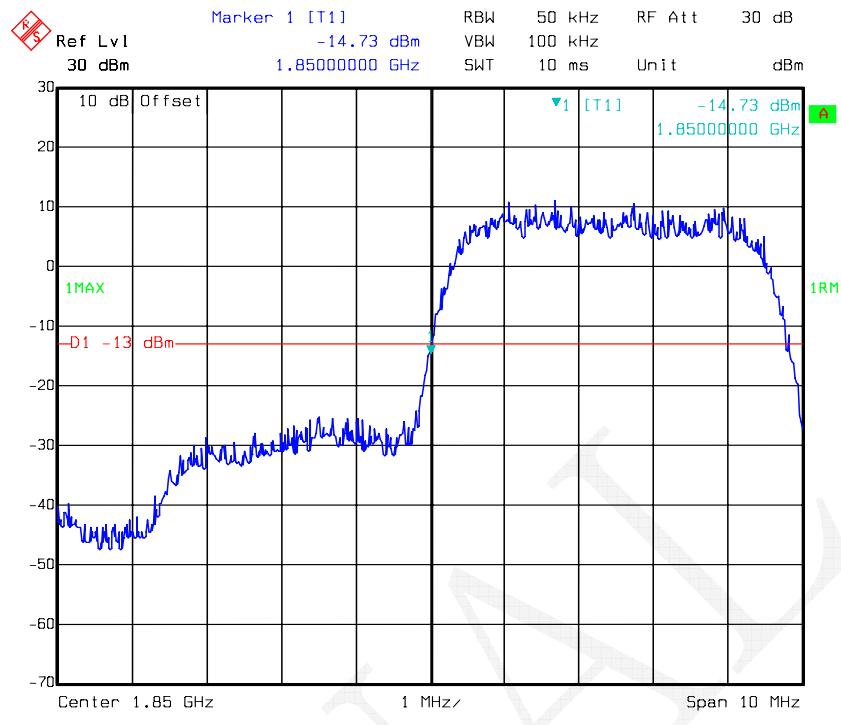
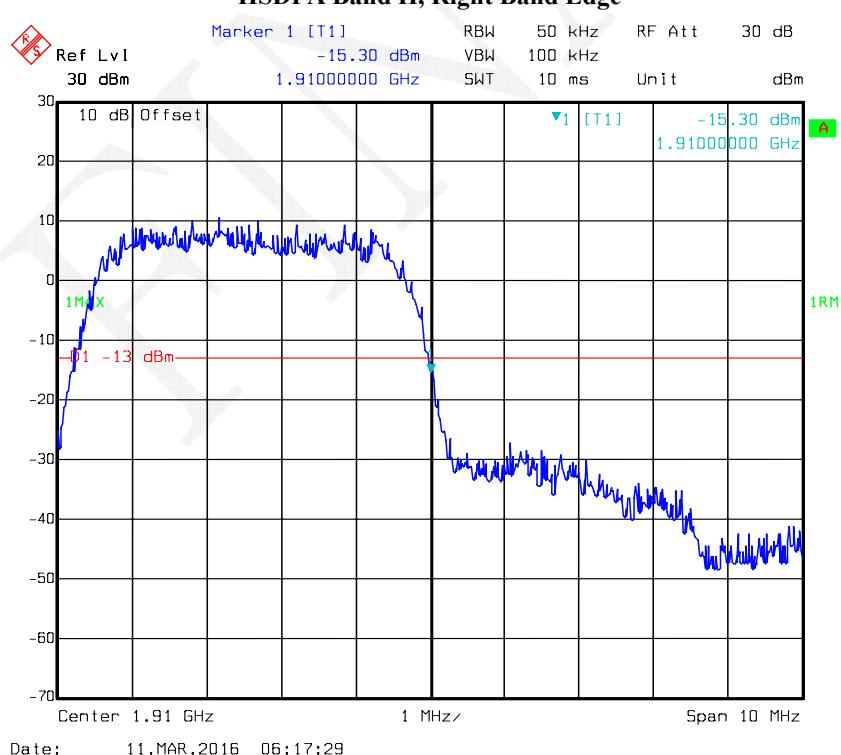
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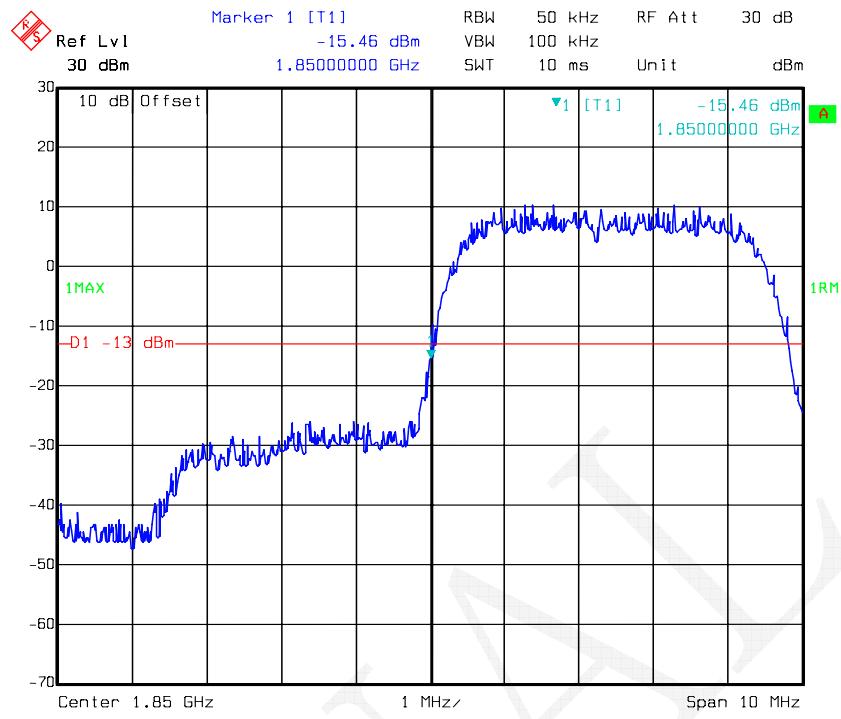
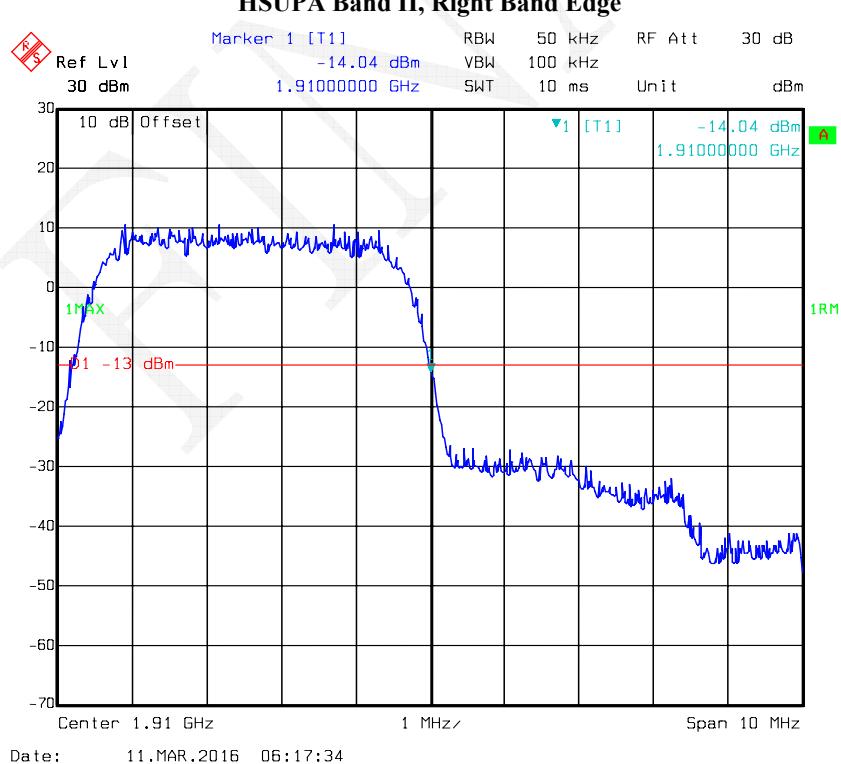
REL99 Band II, Left Band Edge

Date: 11.MAR.2016 06:14:14

REL99 Band II, Right Band Edge

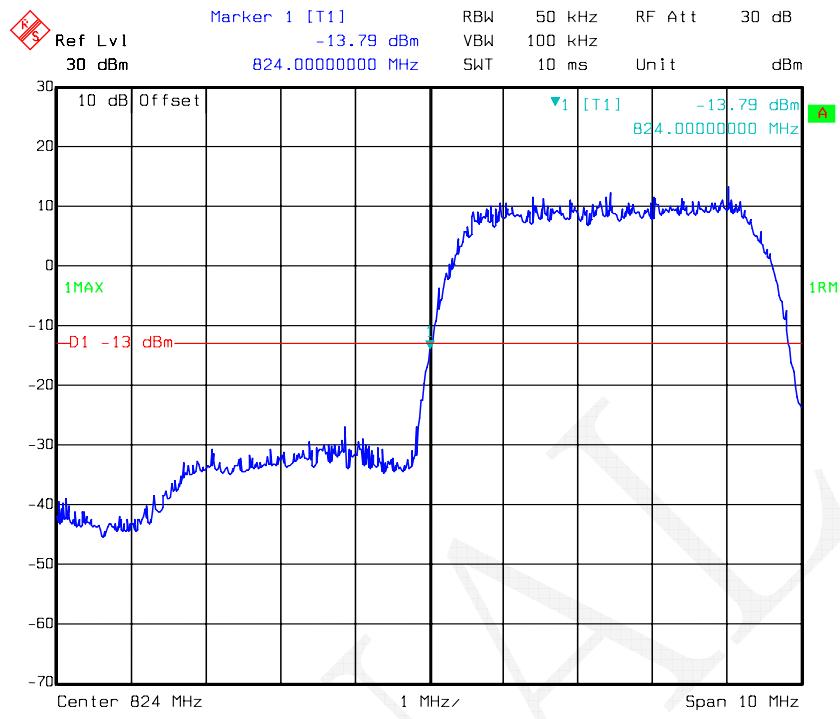
Date: 11.MAR.2016 06:17:22

HSDPA Band II, Left Band Edge**HSDPA Band II, Right Band Edge**

HSUPA Band II, Left Band Edge**HSUPA Band II, Right Band Edge**

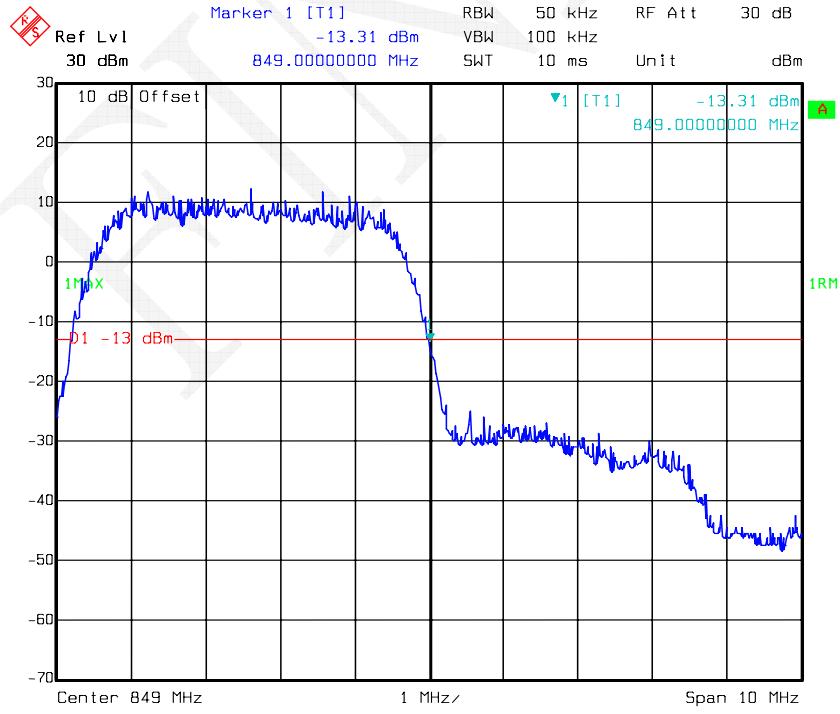
WCDMA Band V

REL99 Band V, Left Band Edge

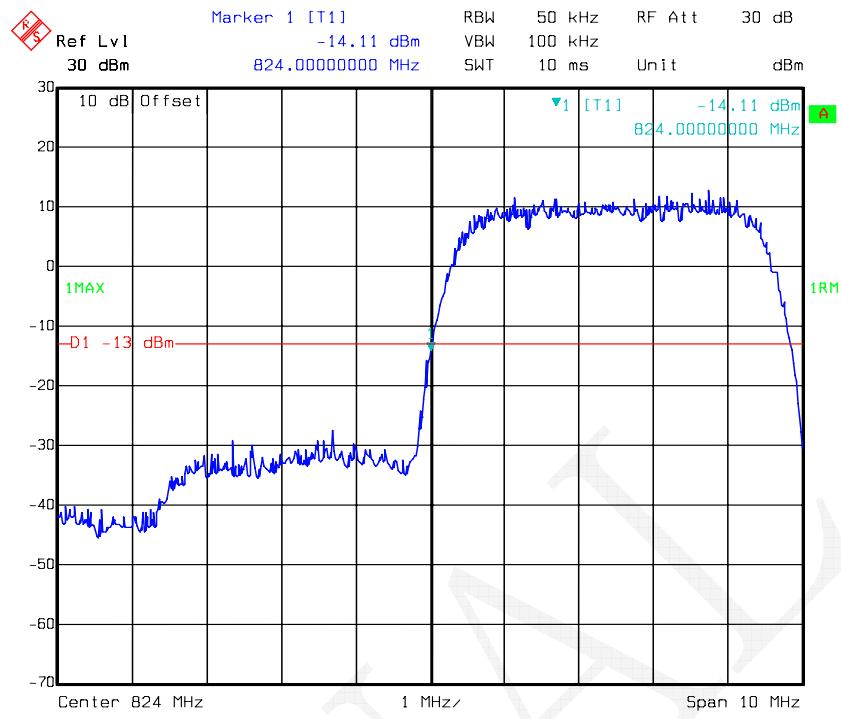
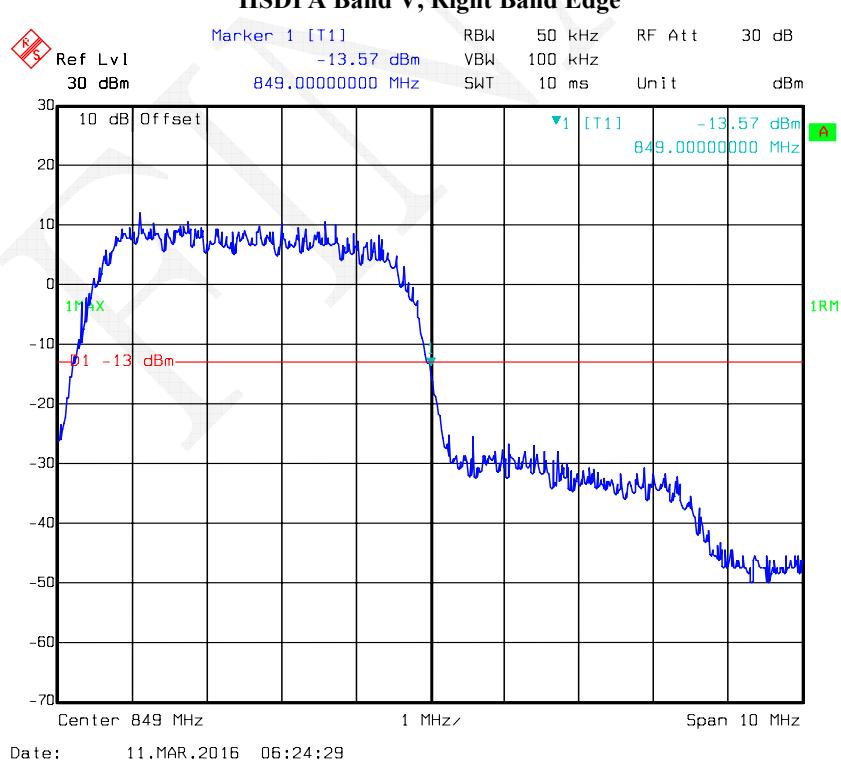


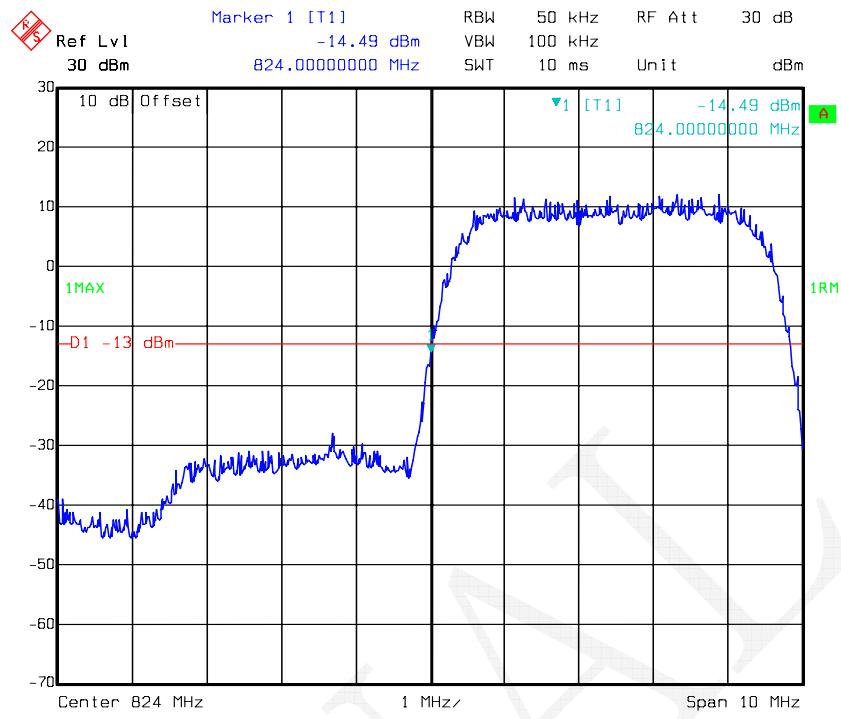
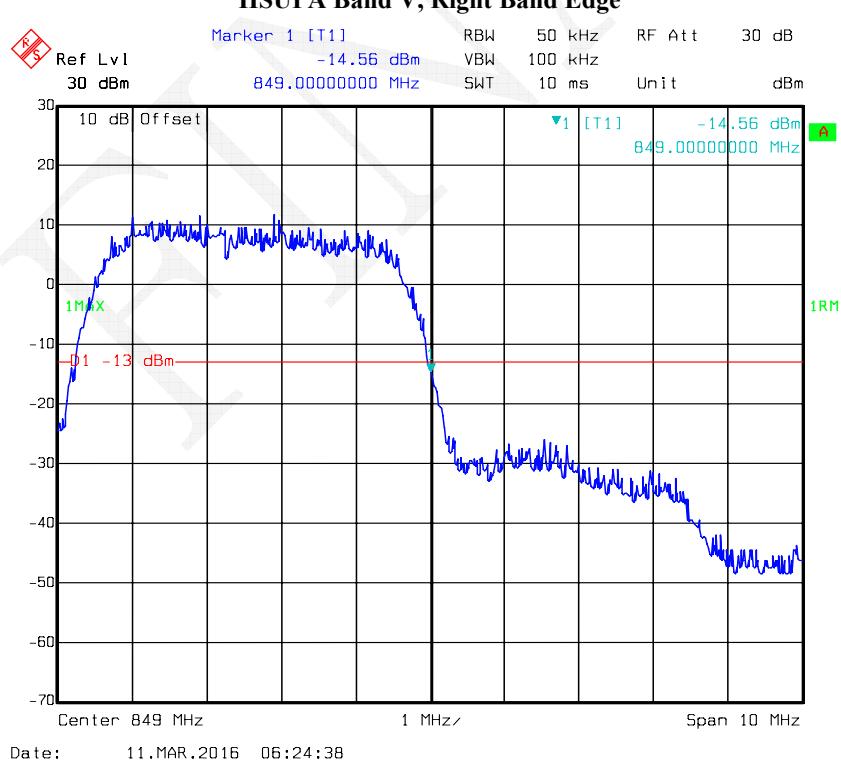
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REL99 Band V Right Band Edge



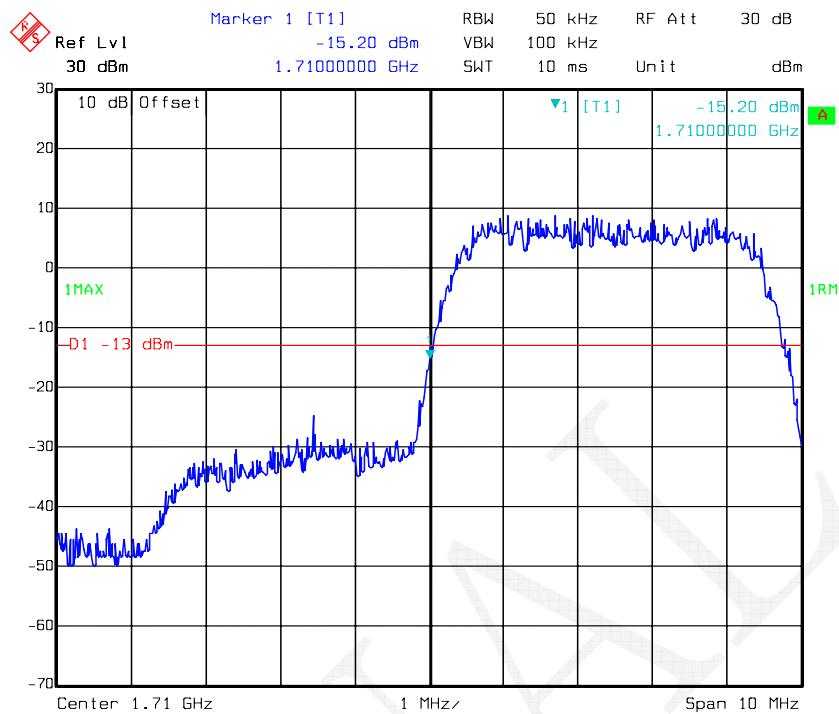
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HSDPA Band V, Left Band Edge**HSDPA Band V, Right Band Edge**

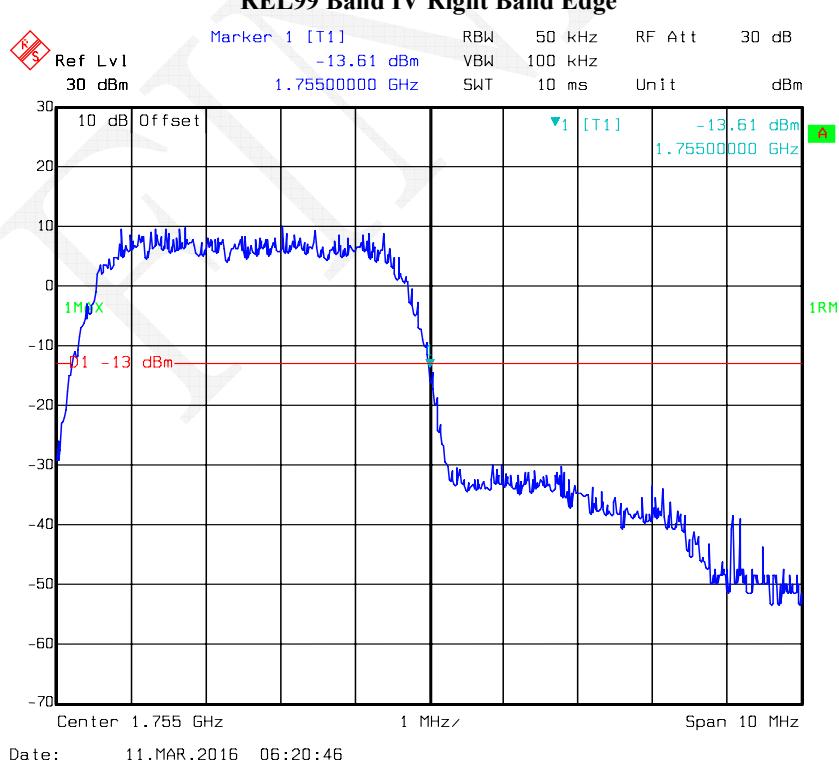
HSUPA Band V, Left Band Edge**HSUPA Band V, Right Band Edge**

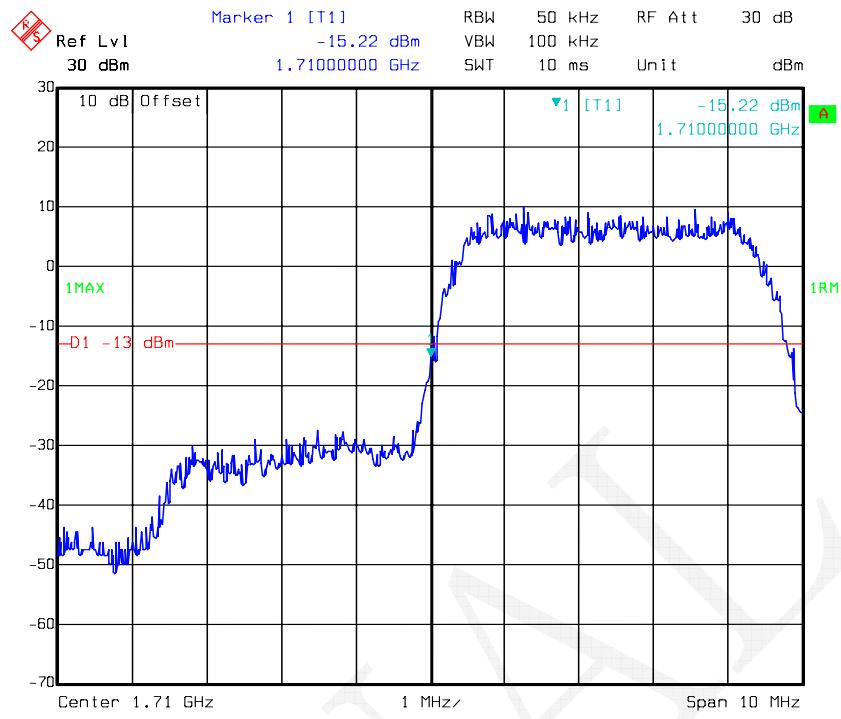
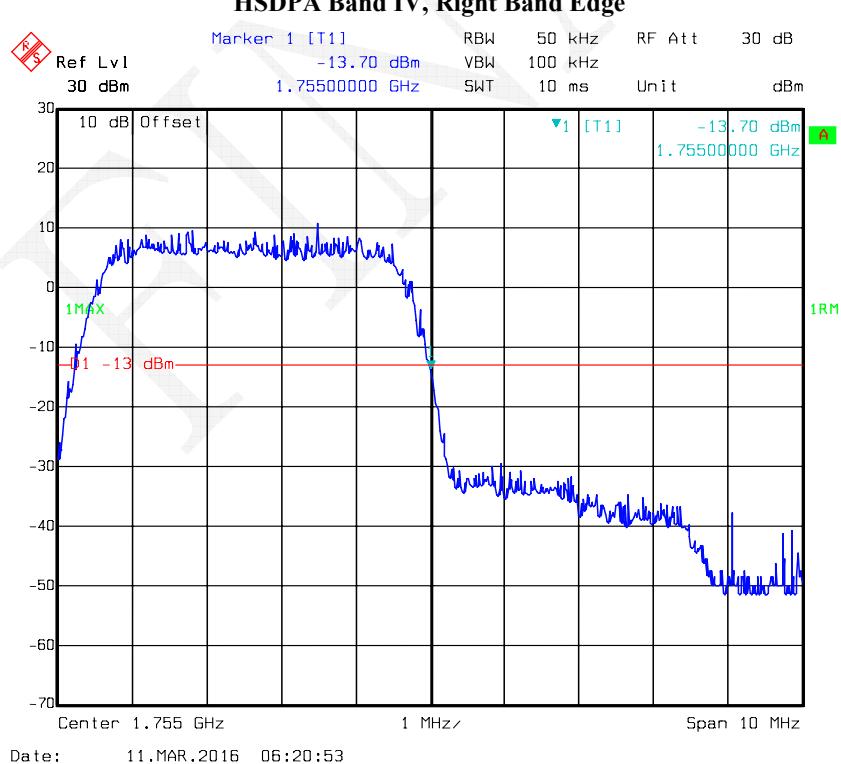
WCDMA Band IV

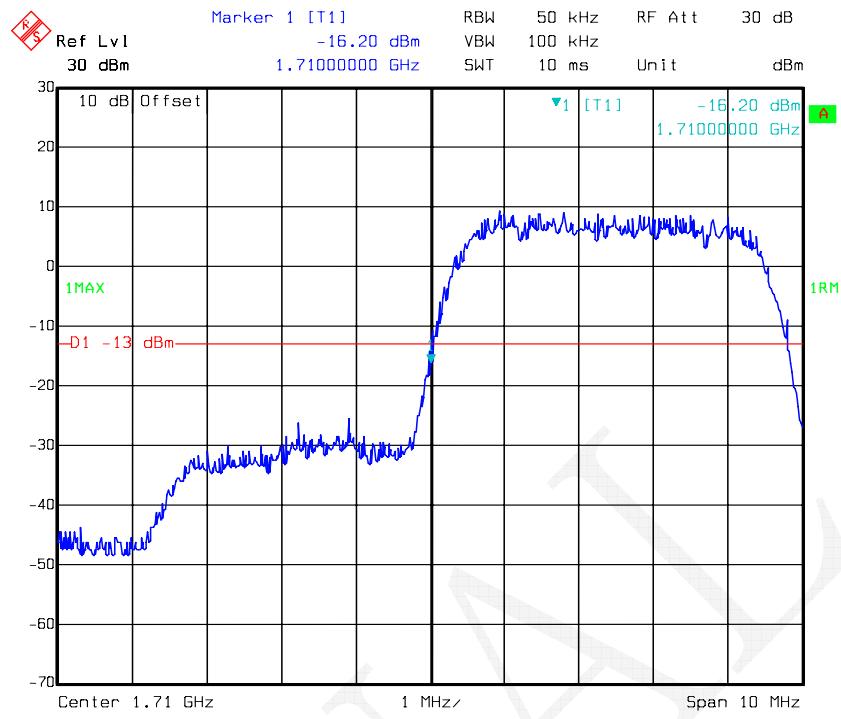
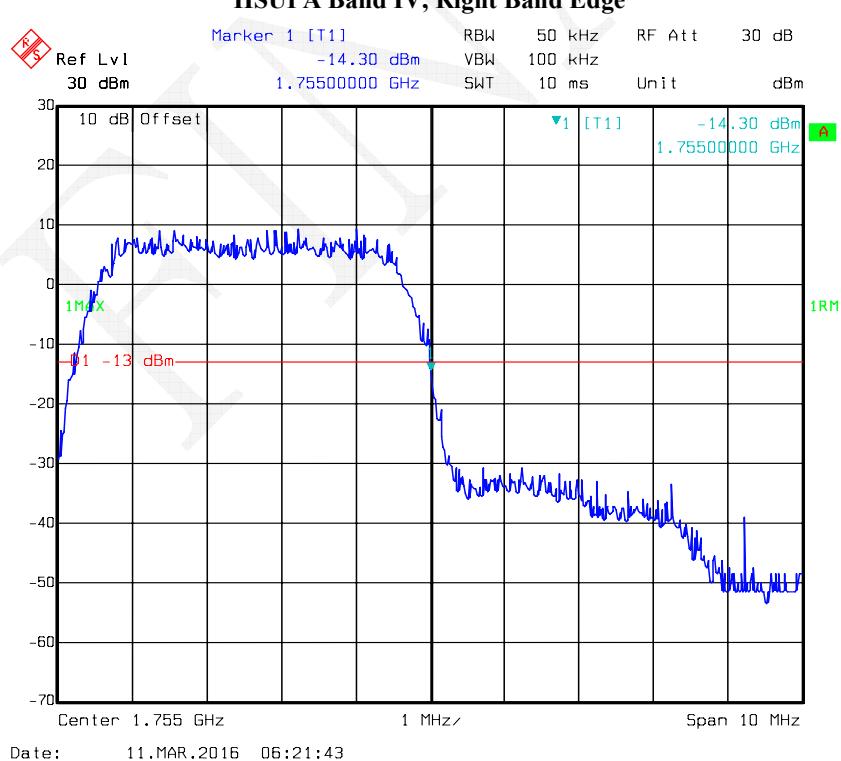
REL99 Band IV, Left Band Edge

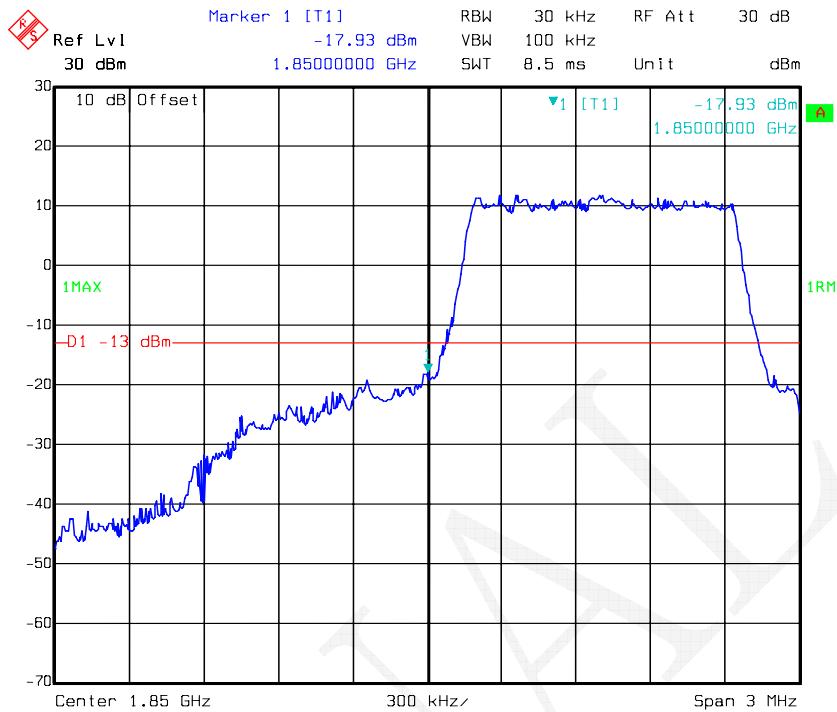


REL99 Band IV Right Band Edge

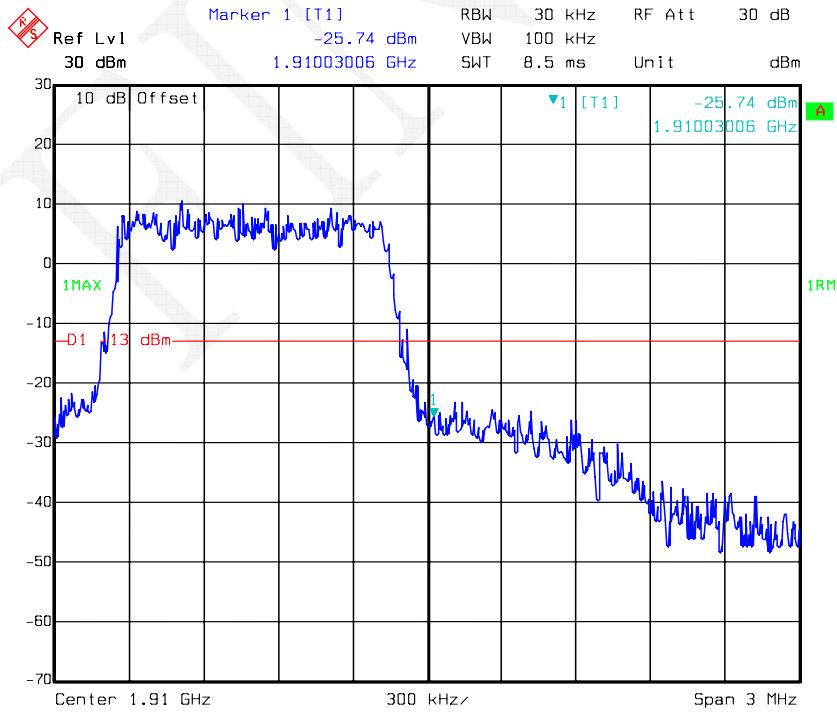


HSDPA Band IV, Left Band Edge**HSDPA Band IV, Right Band Edge**

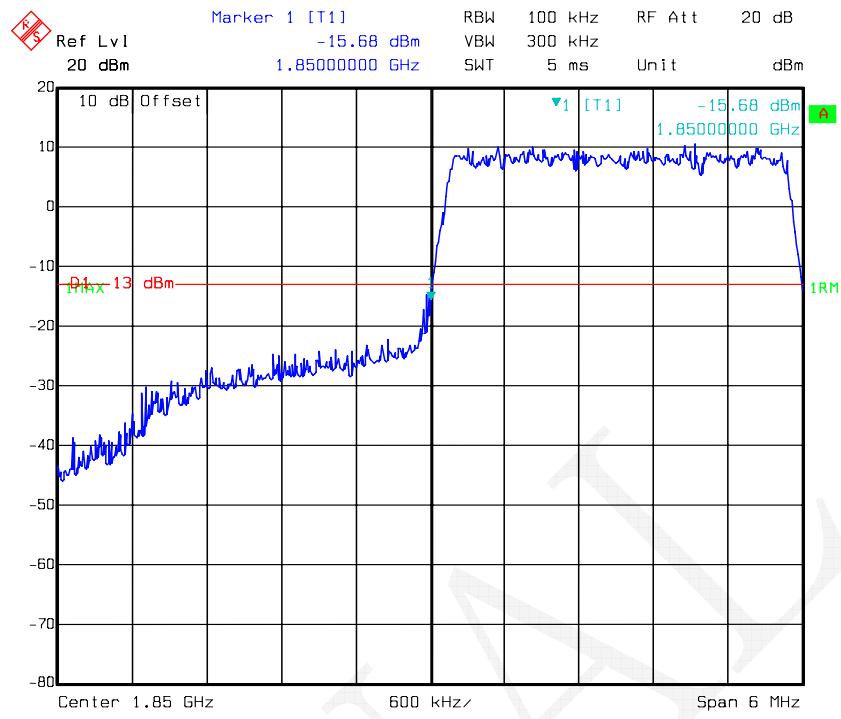
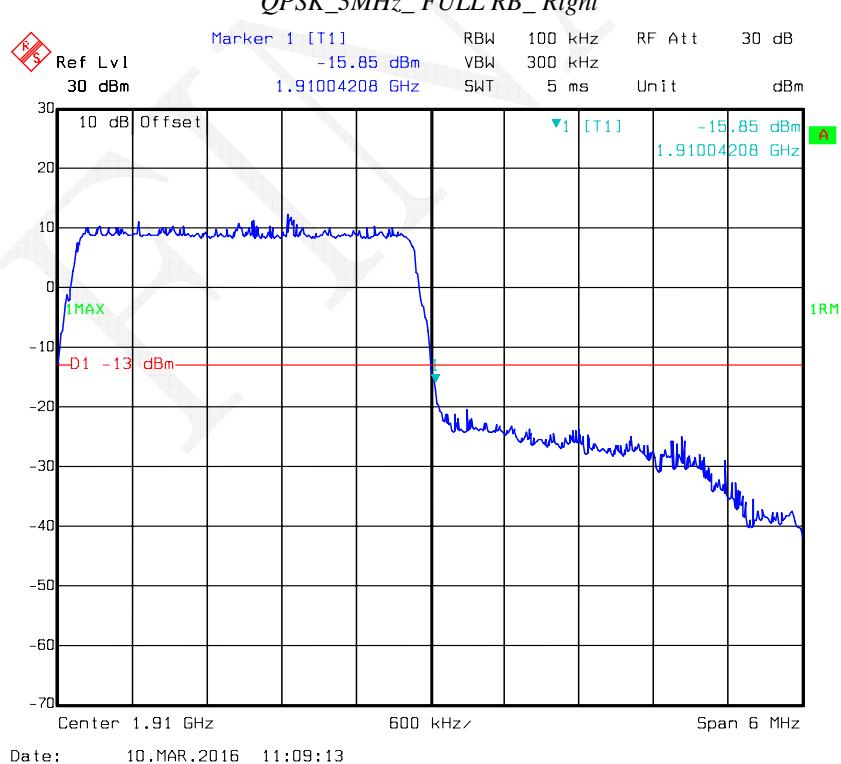
HSUPA Band IV, Left Band Edge**HSUPA Band IV, Right Band Edge**

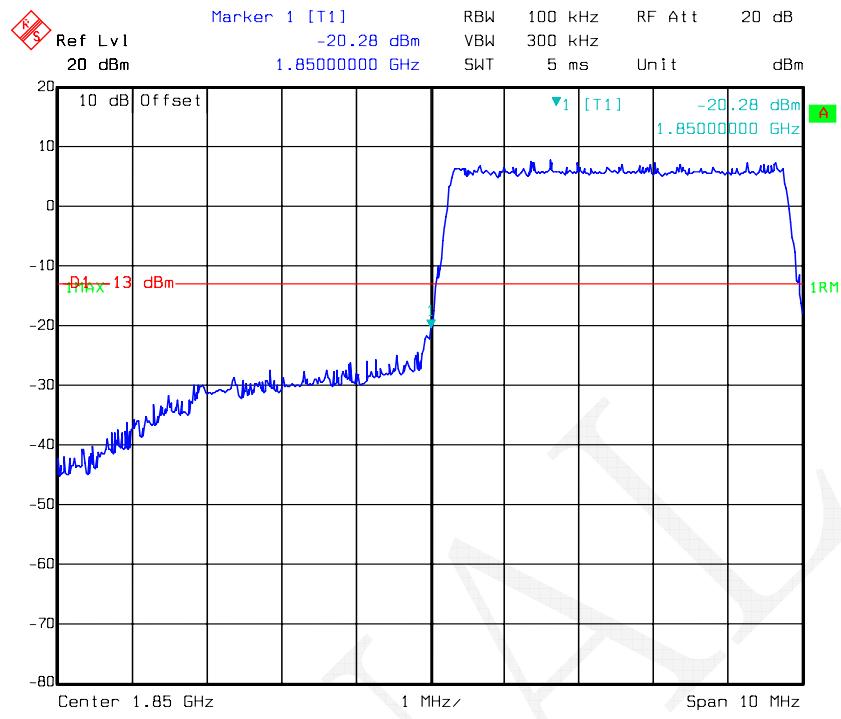
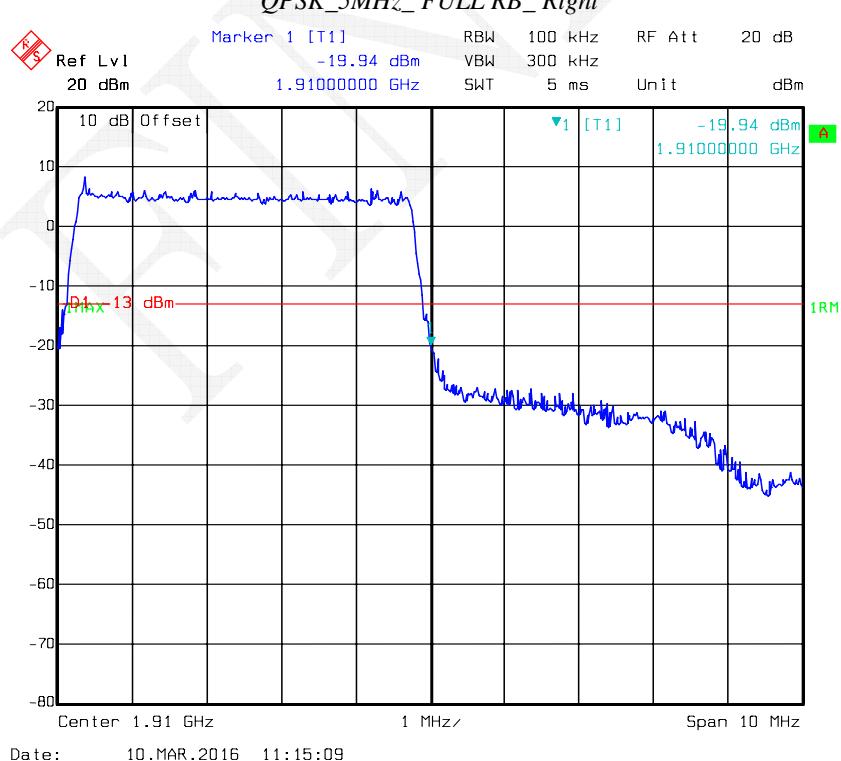
LTE Band II*QPSK_1.4MHz_FULL RB_Left*

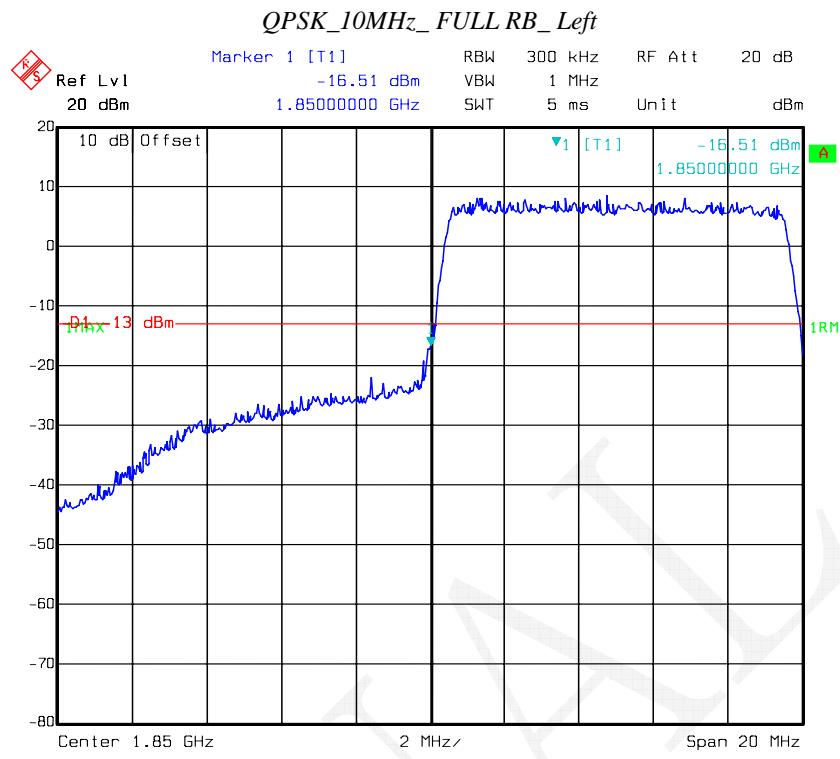
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QPSK_1.4MHz_FULL RB_Right

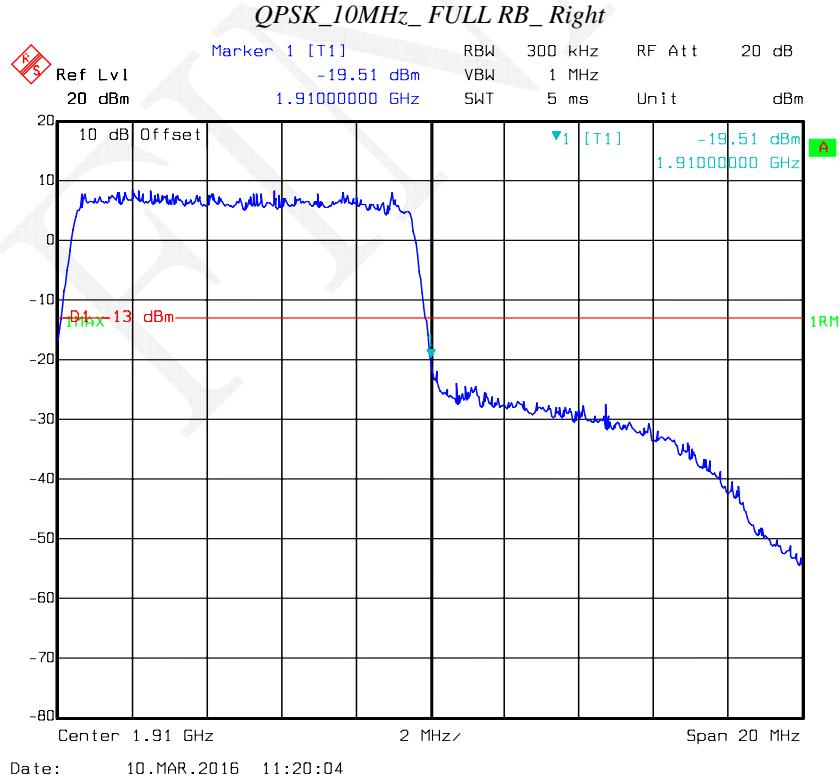
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QPSK_3MHz_FULL RB_Left*QPSK_3MHz_FULL RB_Right*

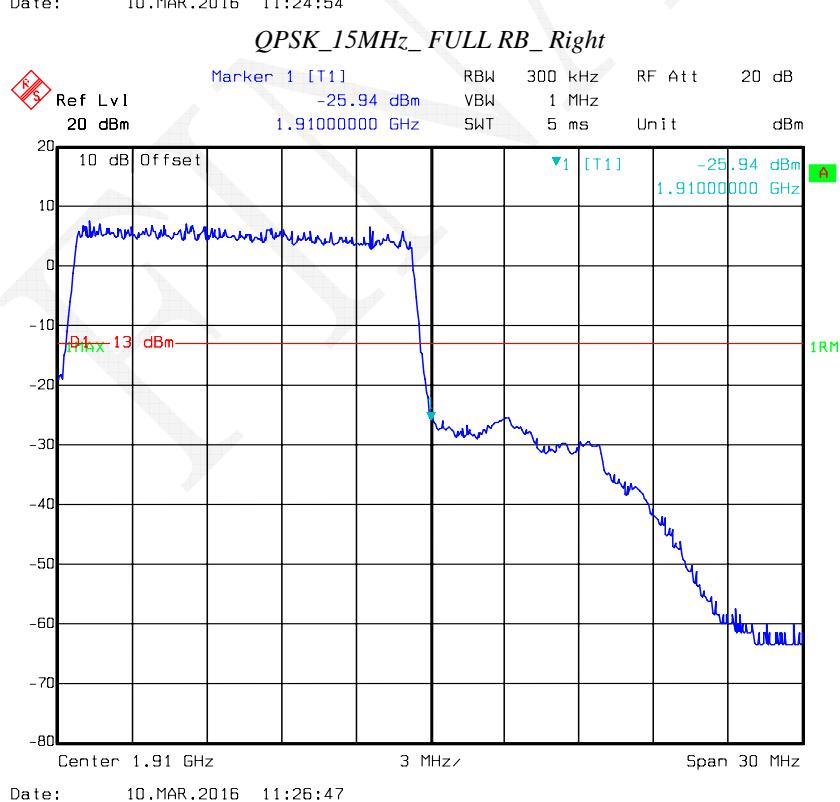
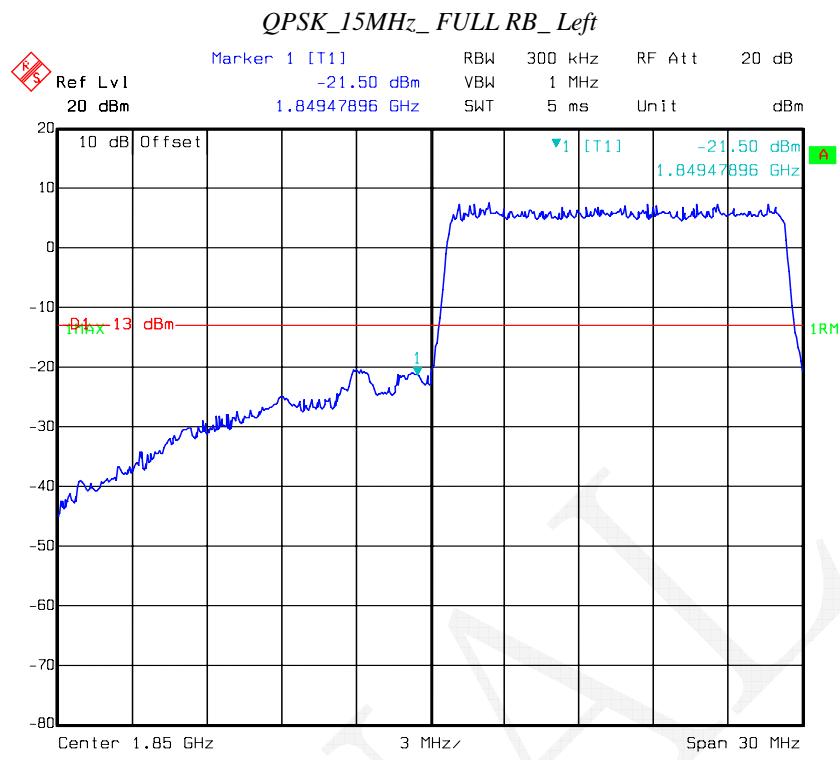
QPSK_5MHz_FULL RB_Left*QPSK_5MHz_FULL RB_Right*

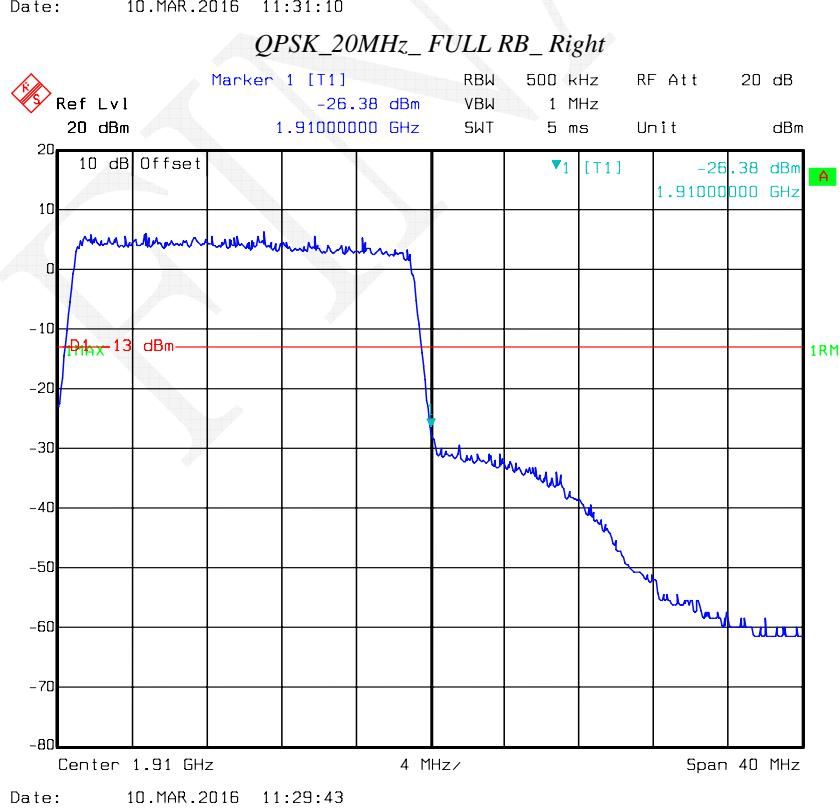
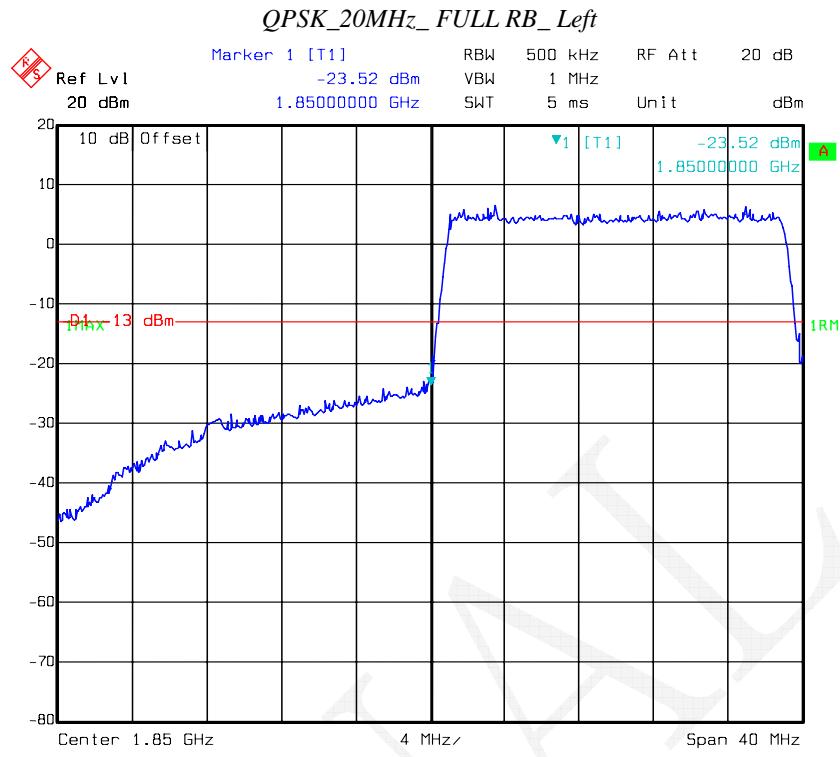


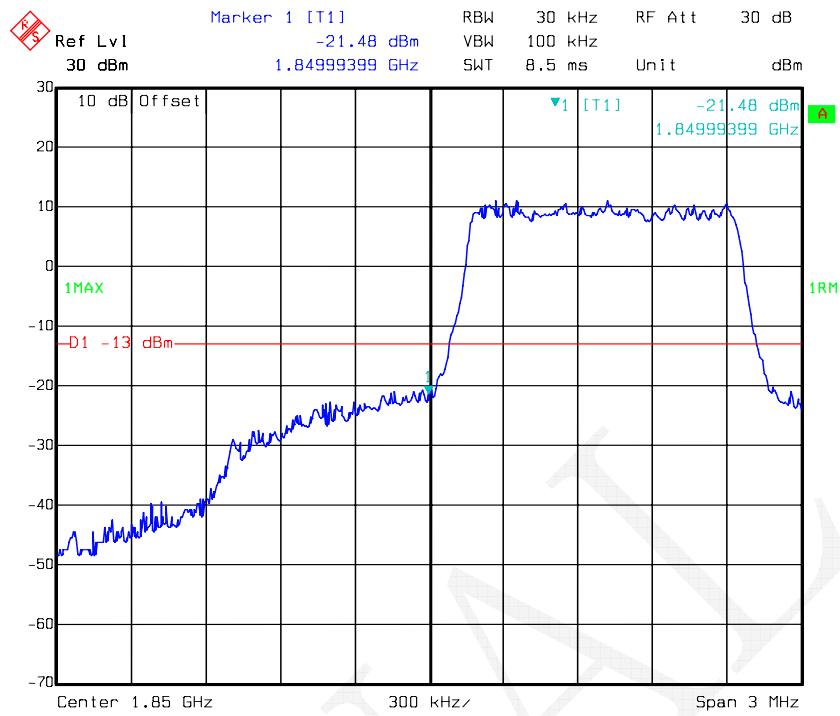
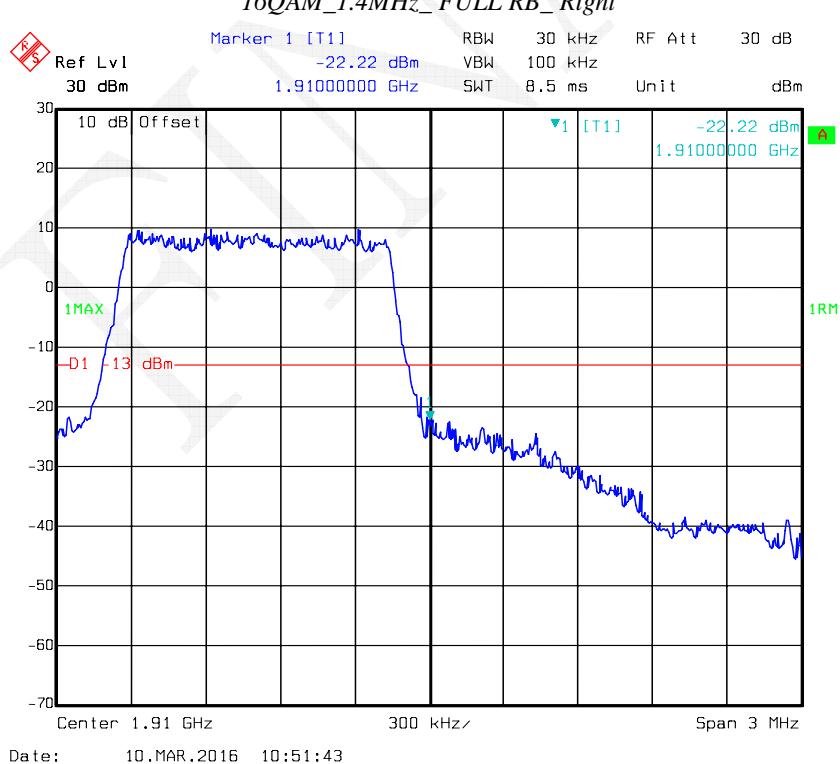
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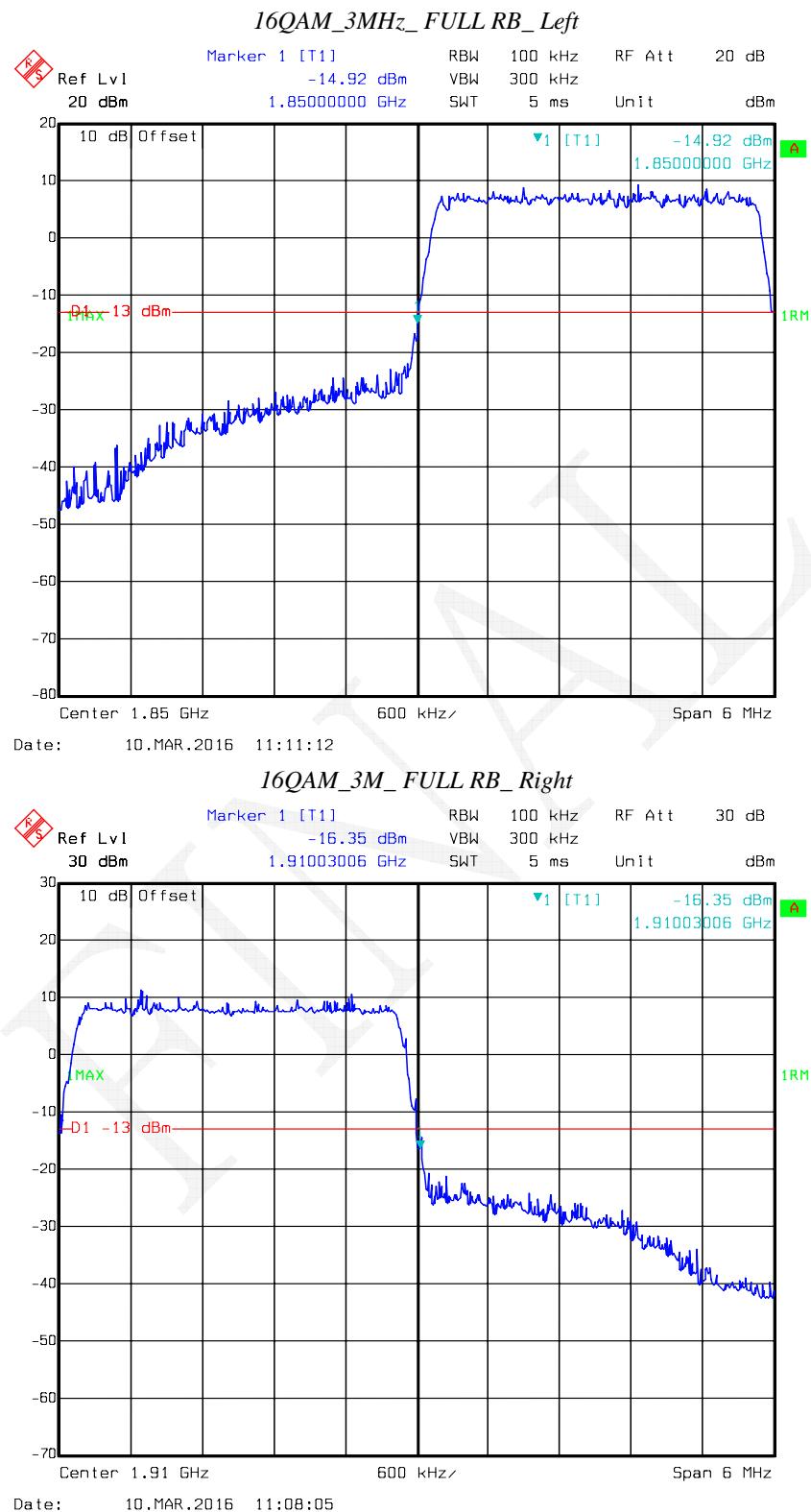


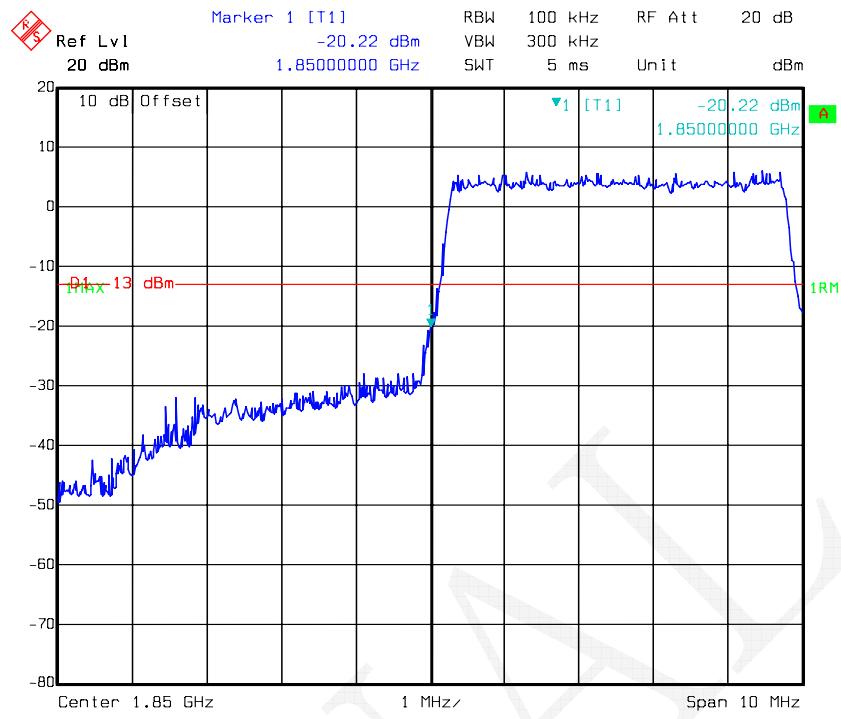
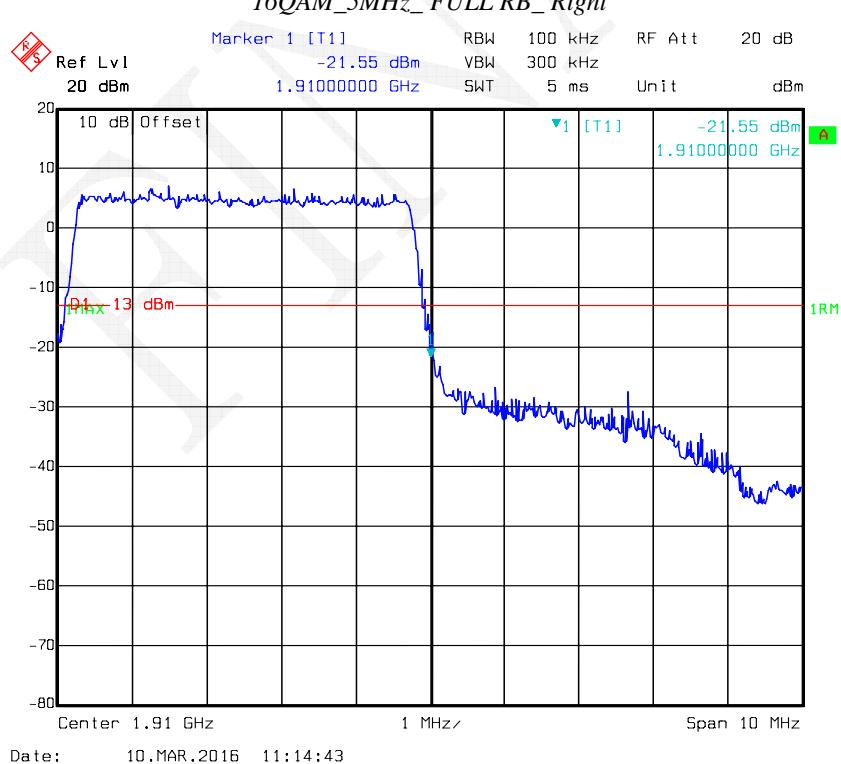
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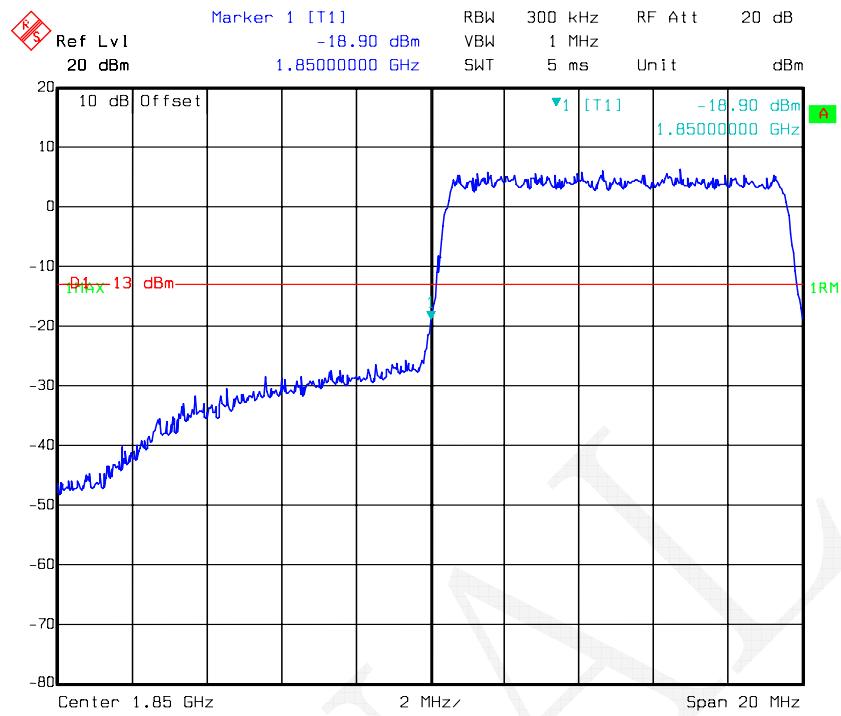
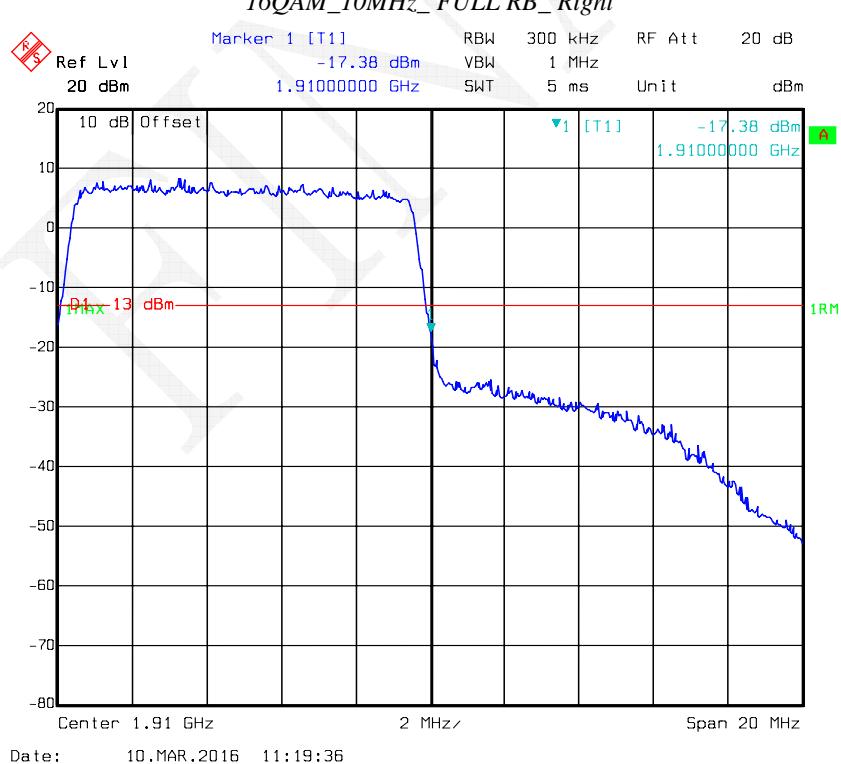


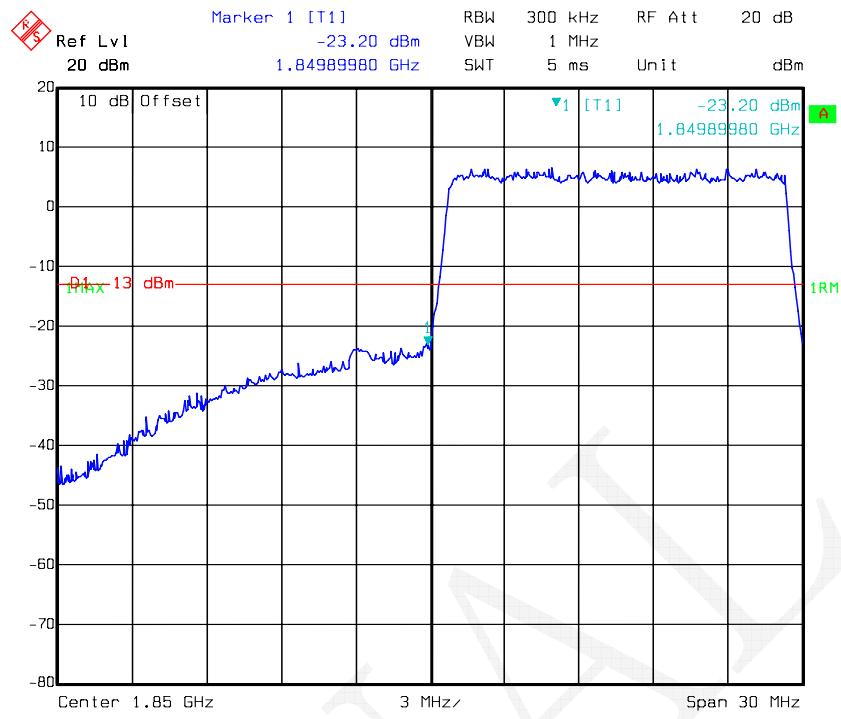
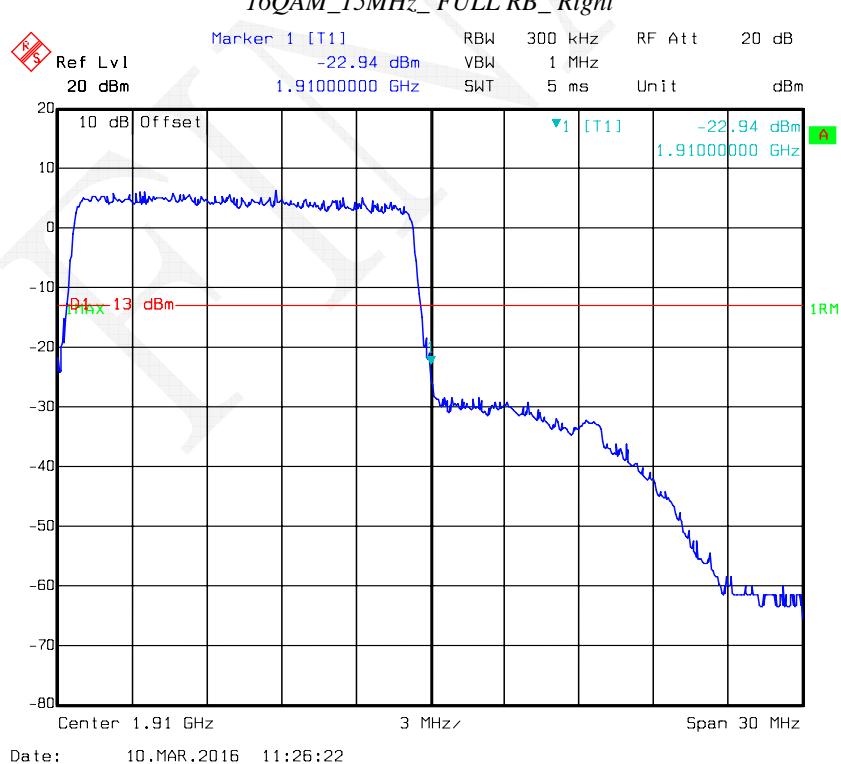


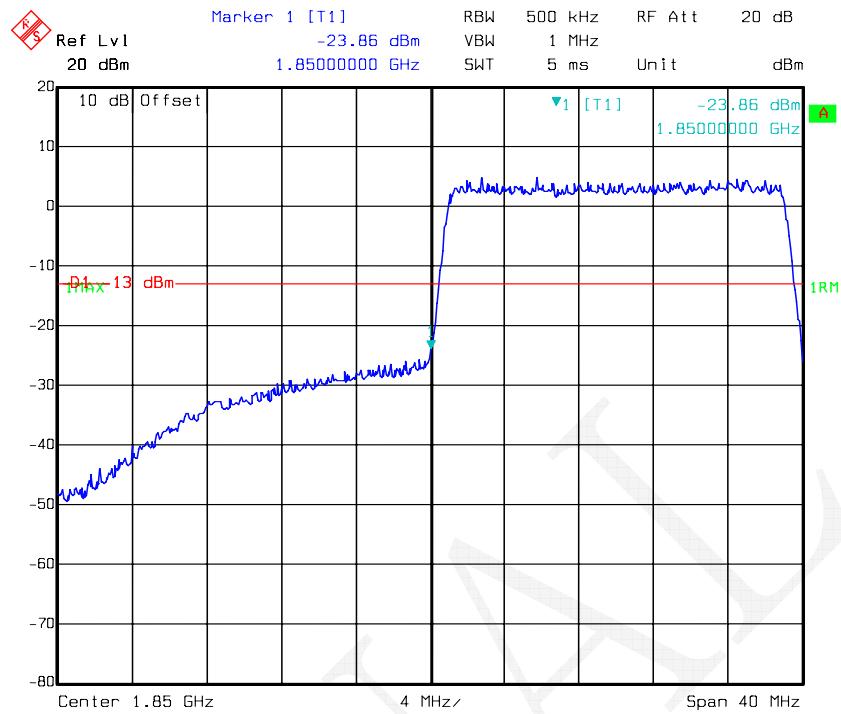
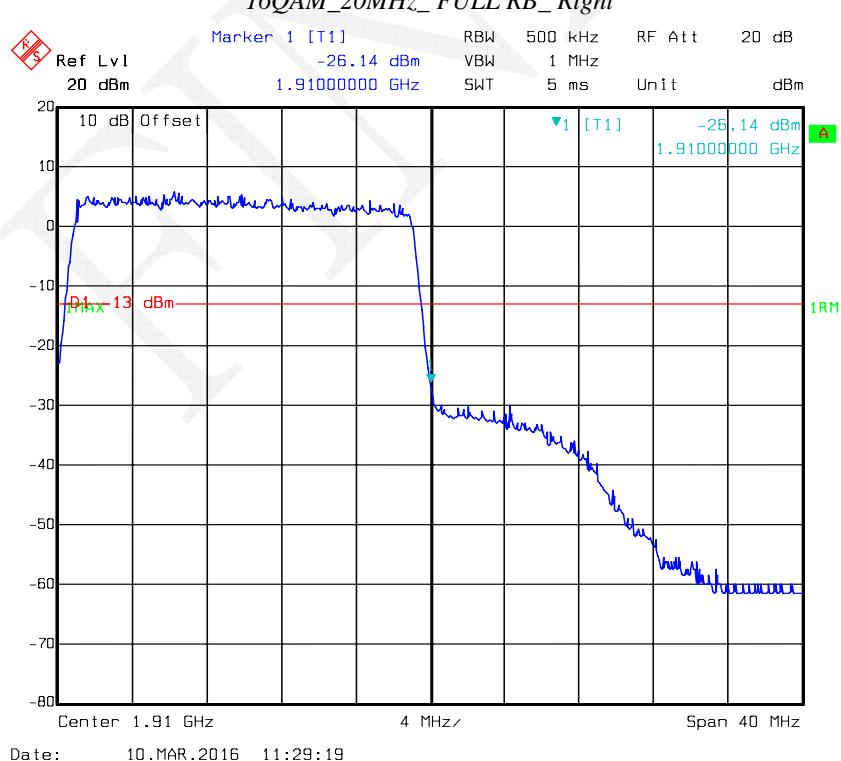
16QAM_1.4MHz_FULL RB_Left*16QAM_1.4MHz_FULL RB_Right*

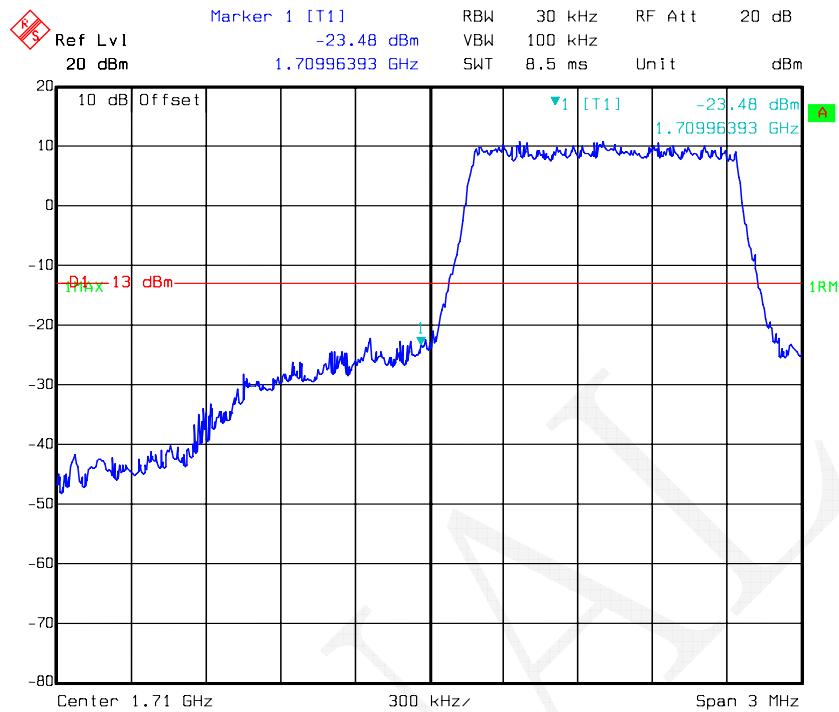
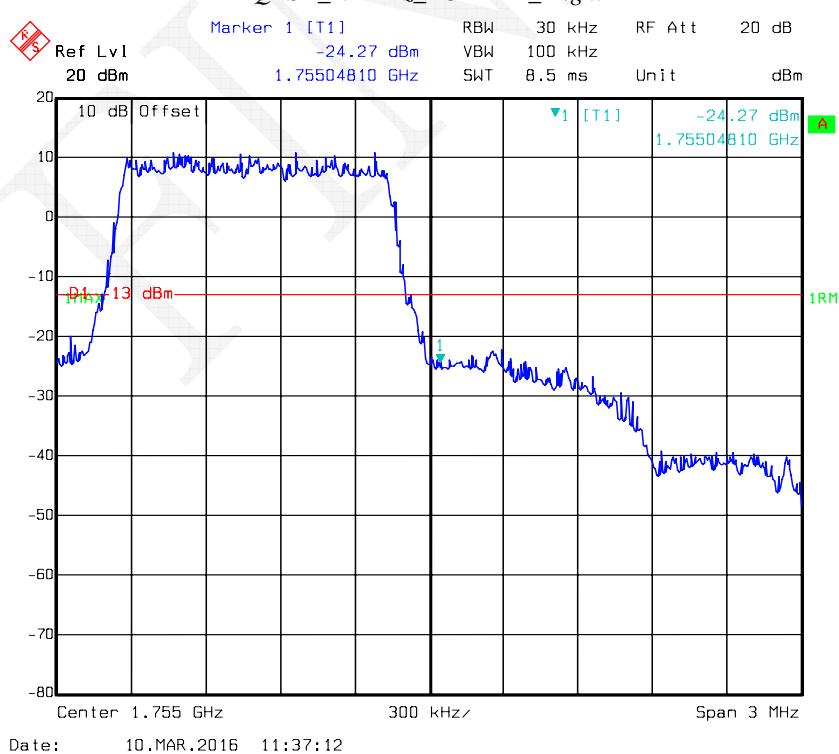


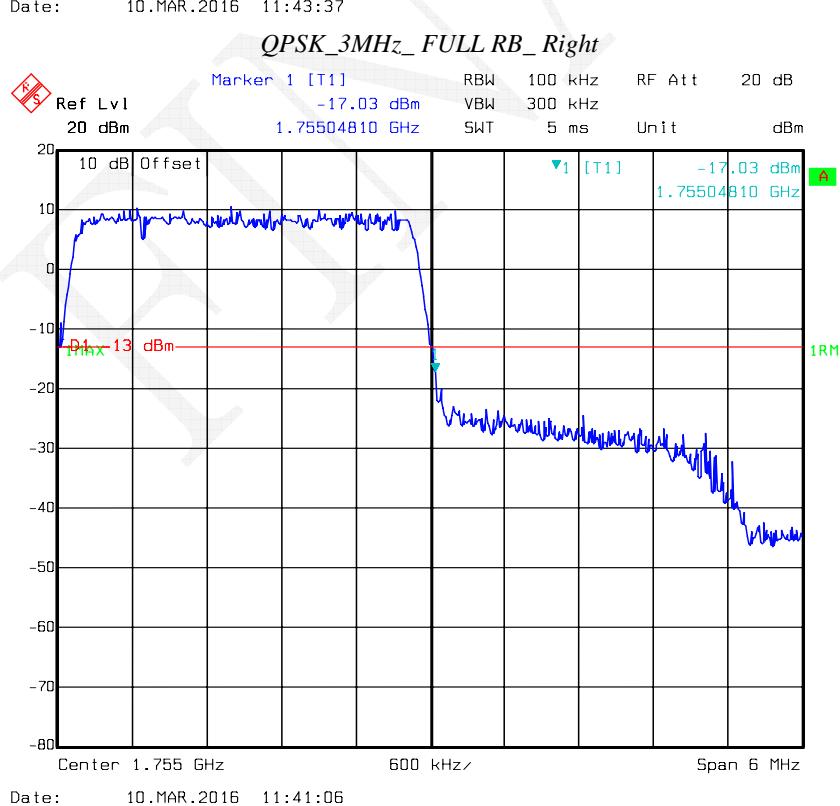
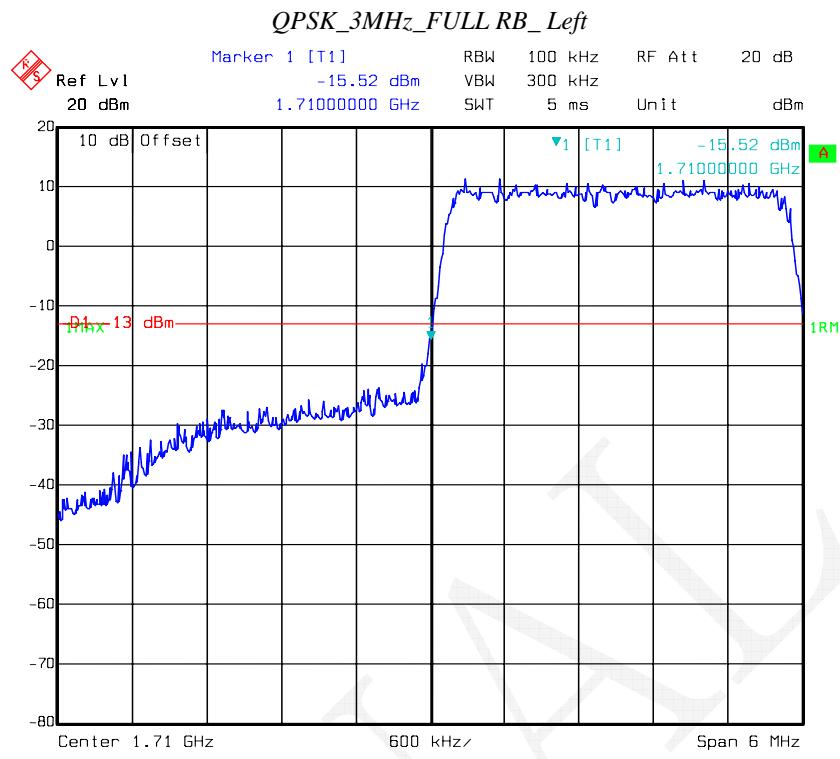
16QAM_5MHz_FULL RB_Left*16QAM_5MHz_FULL RB_Right*

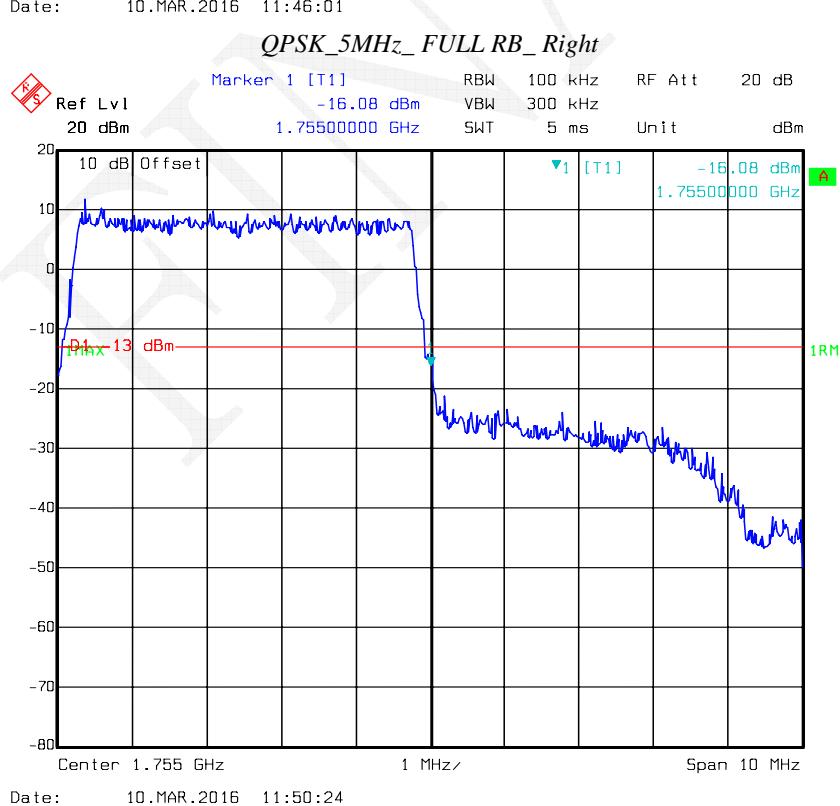
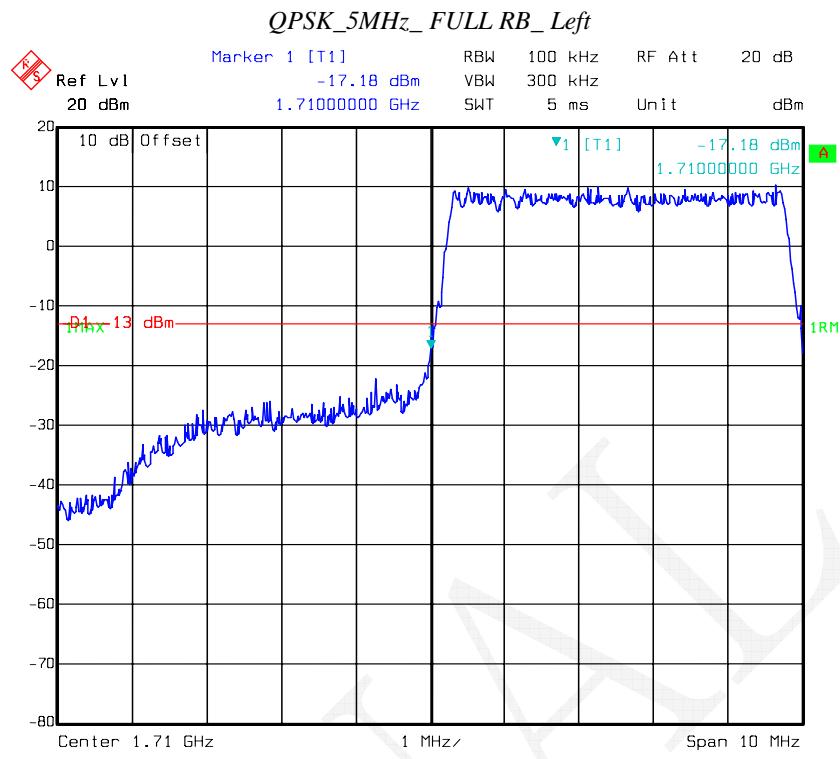
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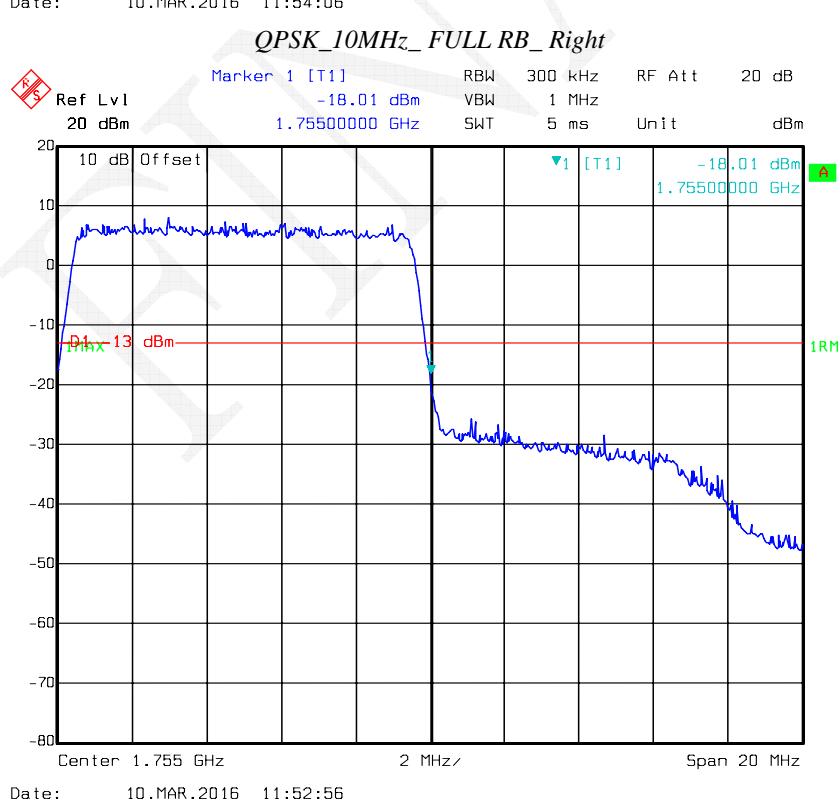
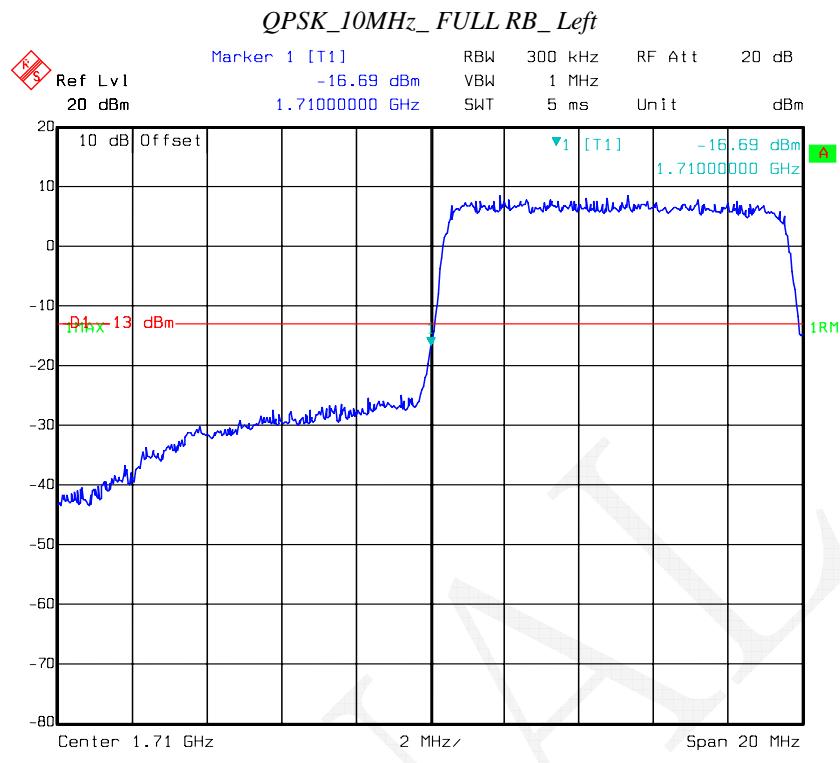
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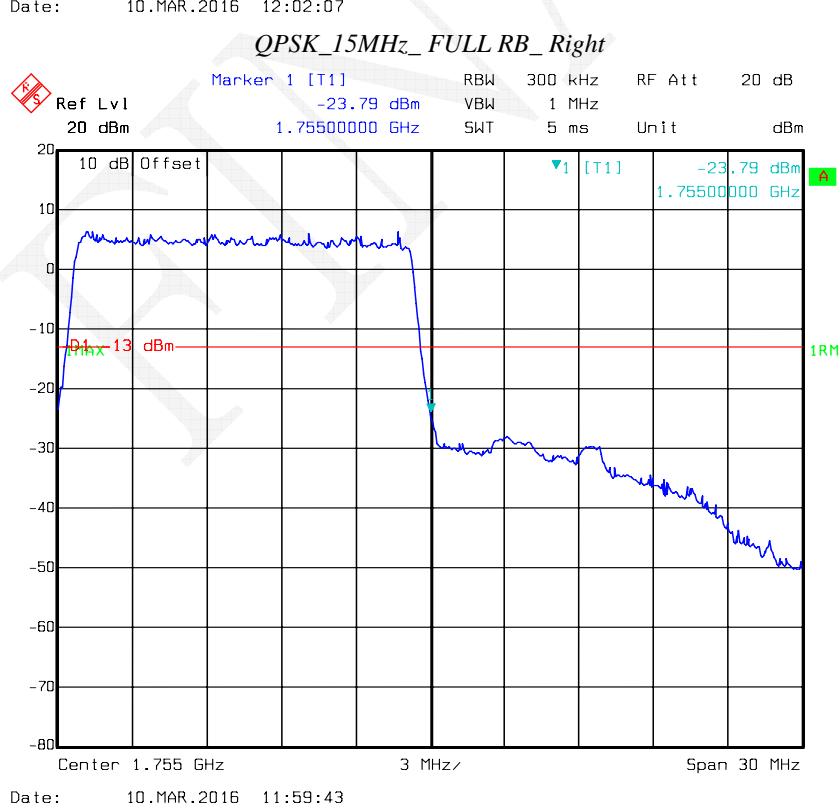
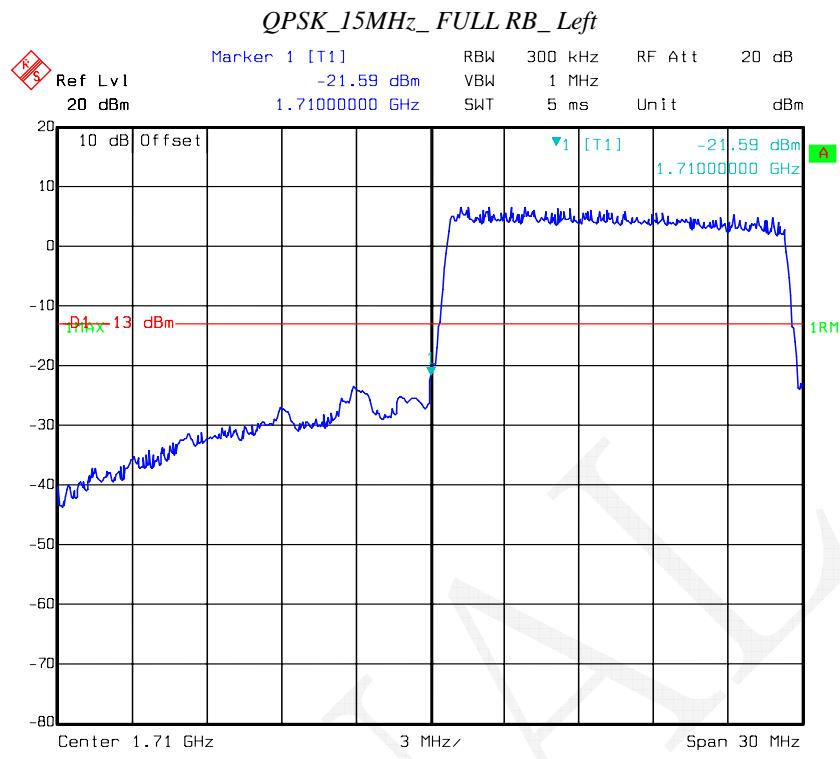
16QAM_20MHz_FULL RB_Left*16QAM_20MHz_FULL RB_Right*

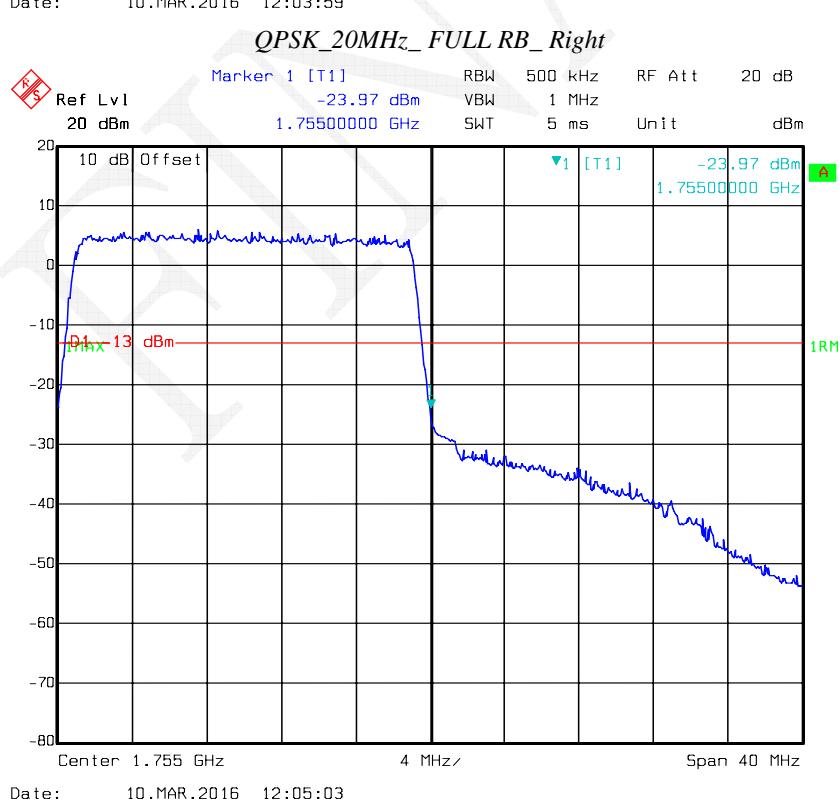
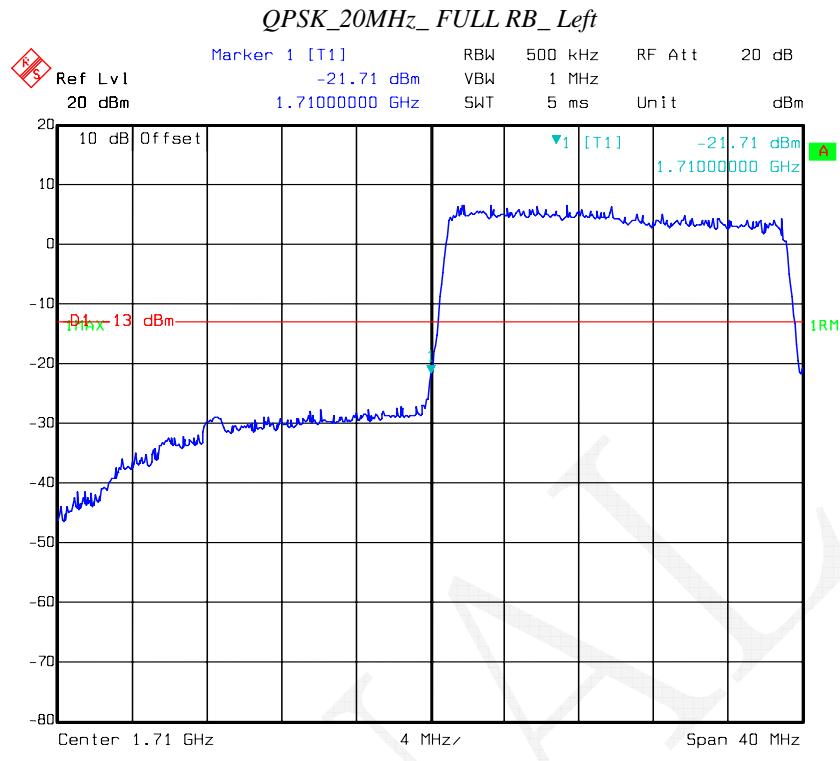
LTE Band IV*QPSK_1.4MHz_FULL RB_Left**QPSK_1.4MHz_FULL RB_Right*

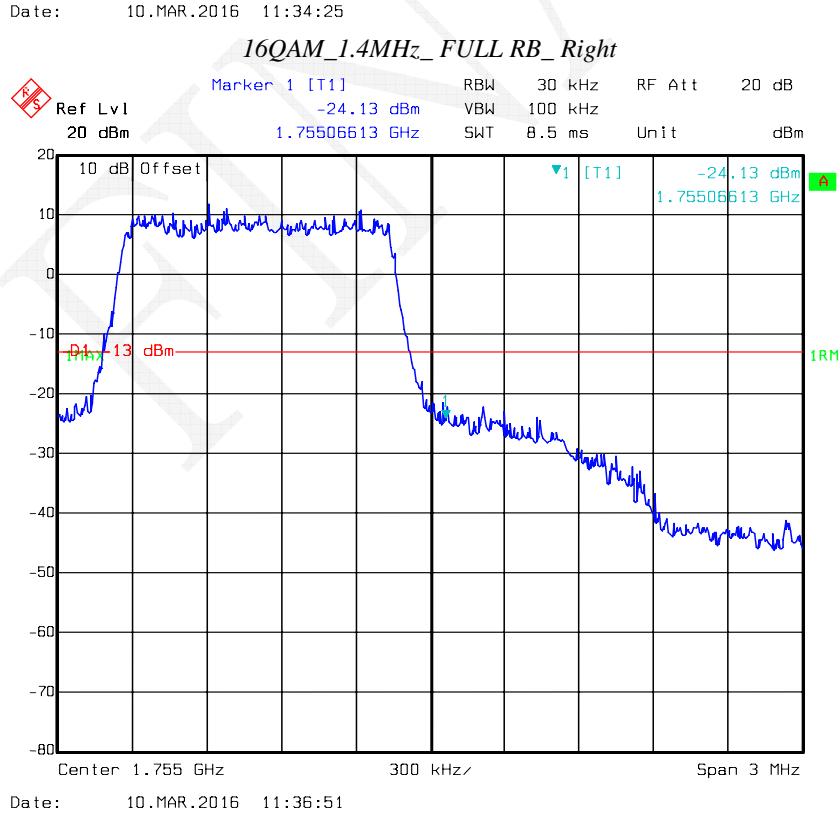
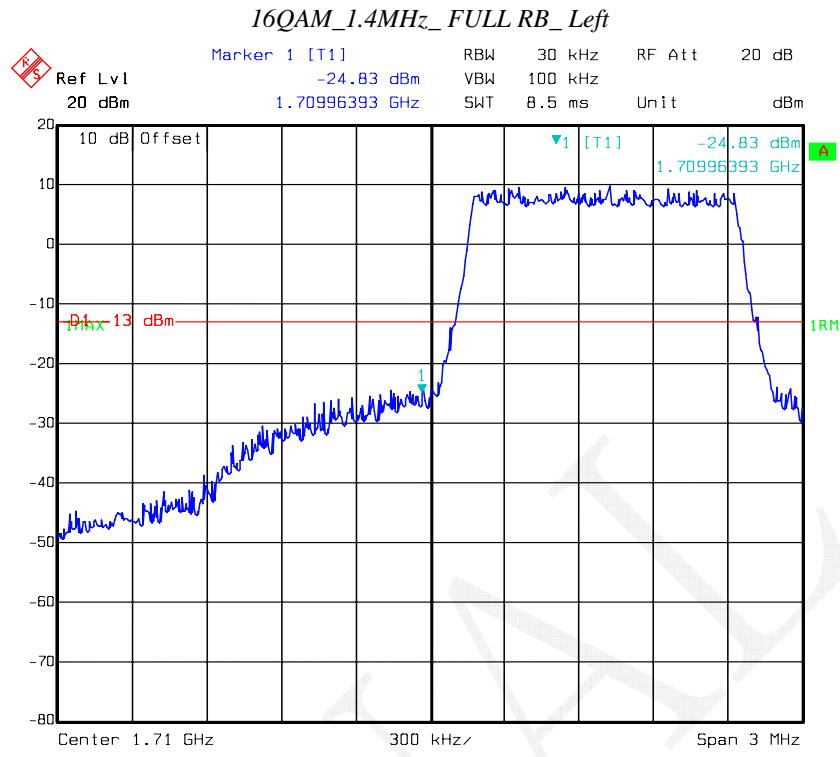


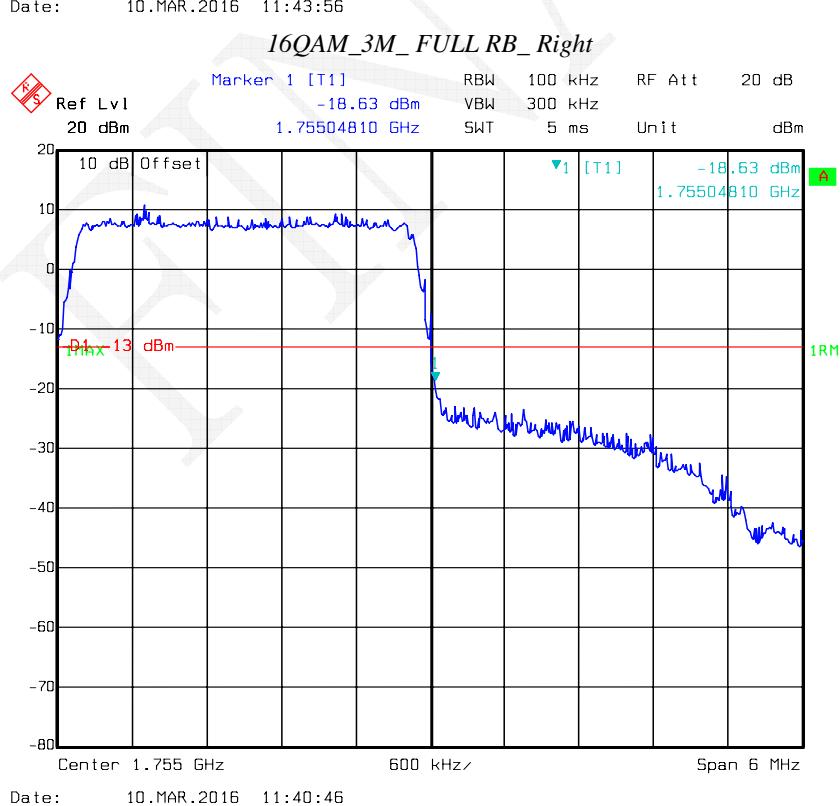
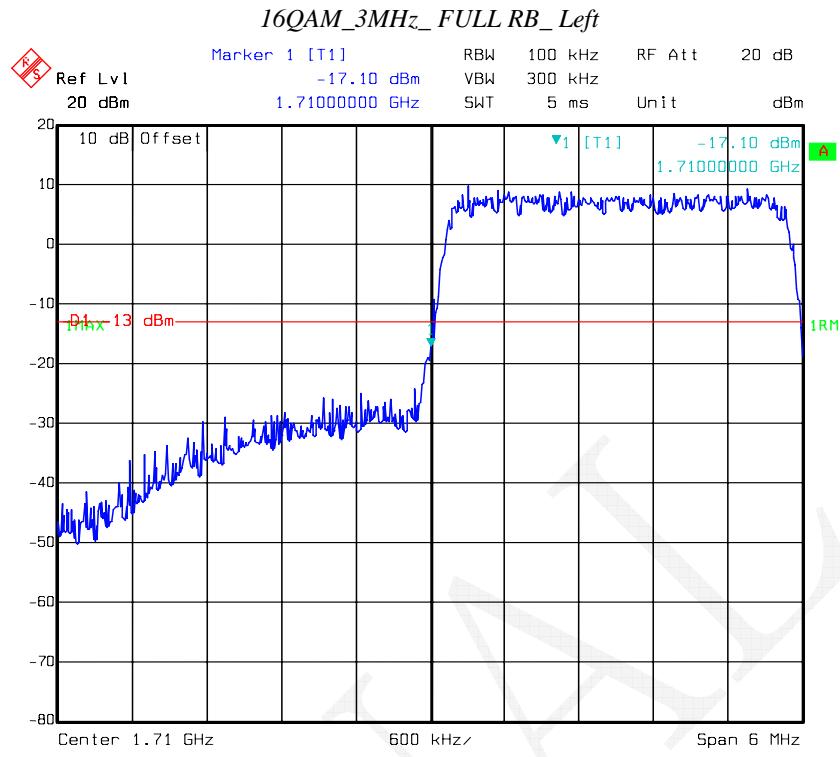


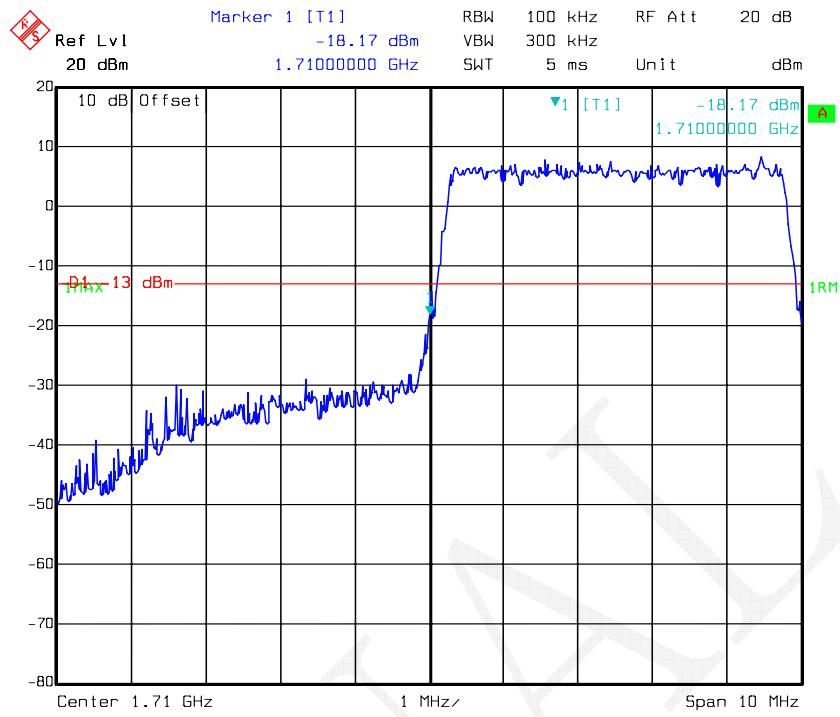




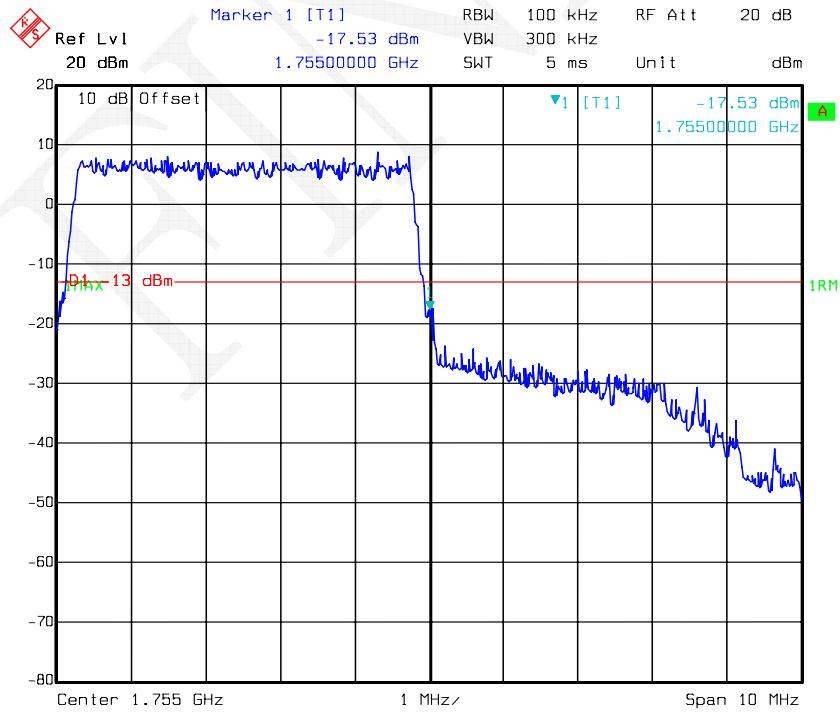




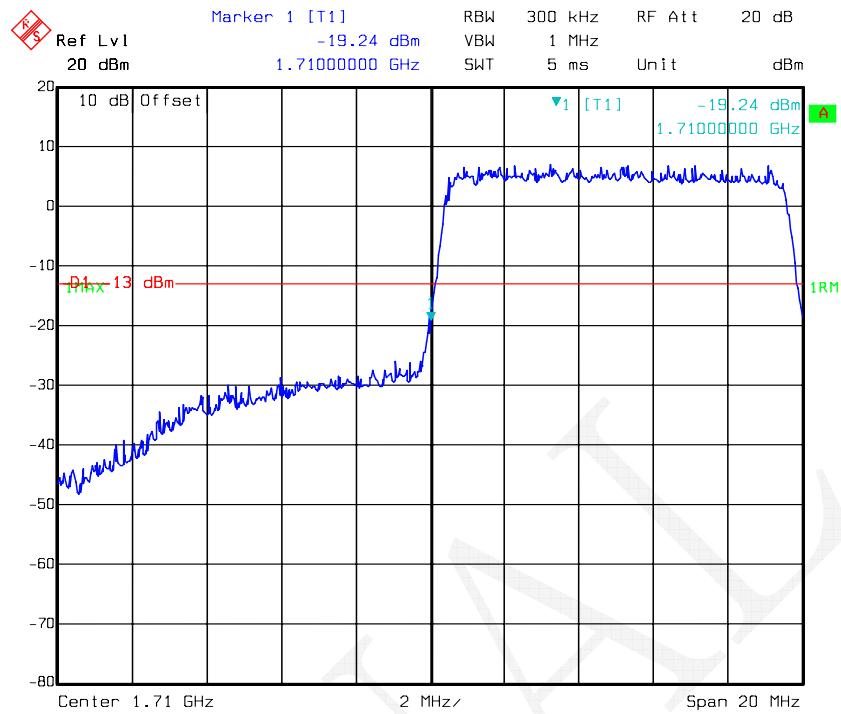
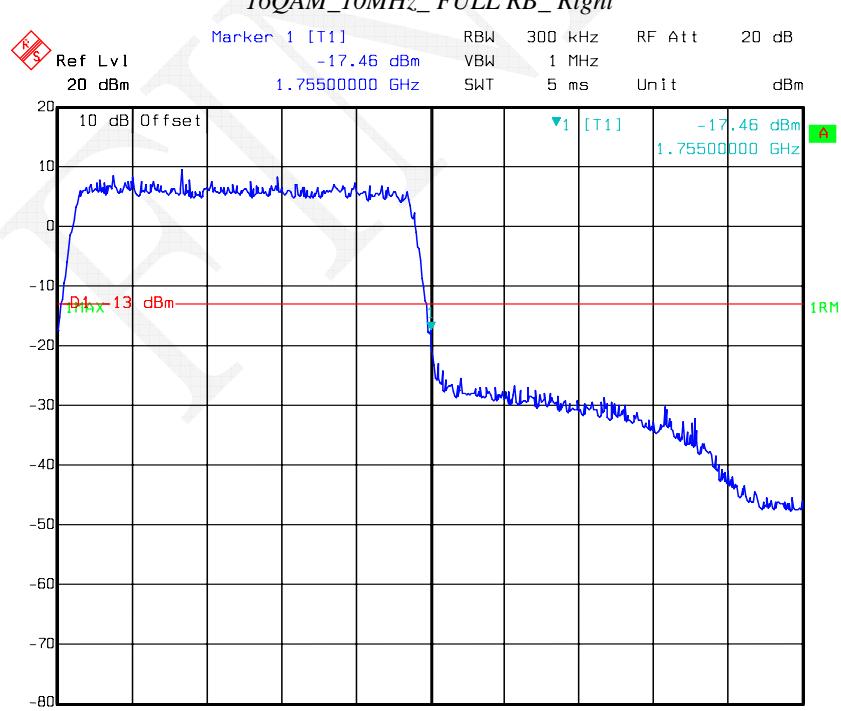


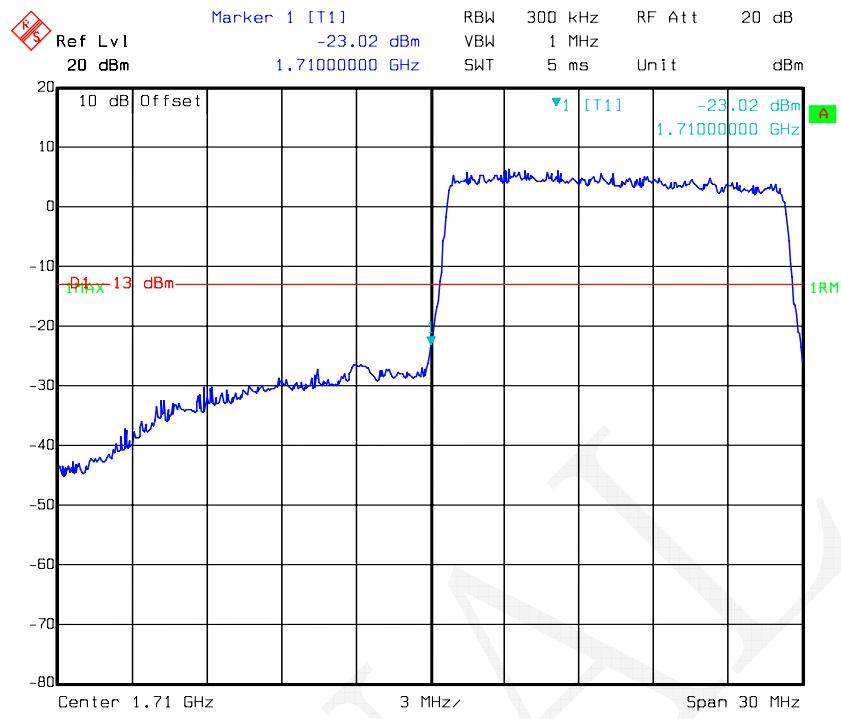
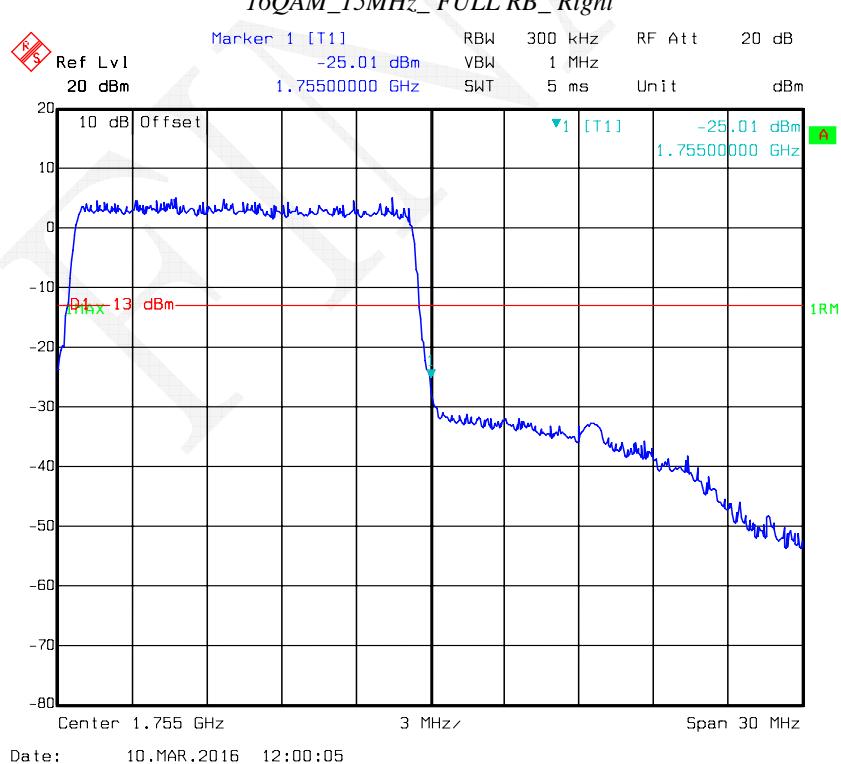
16QAM_5MHz_FULL RB_Left

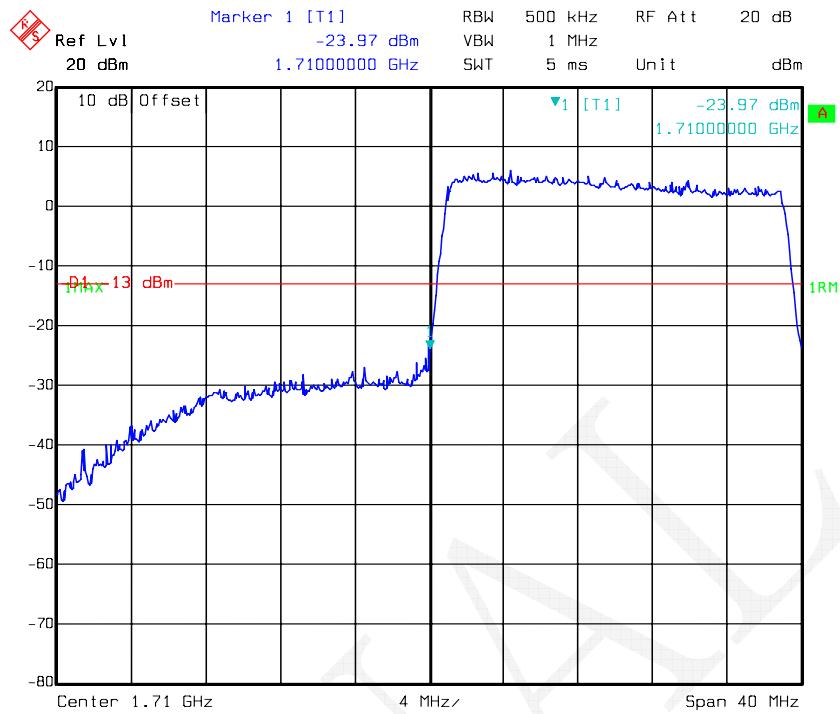
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16QAM_5MHz_FULL RB_Right

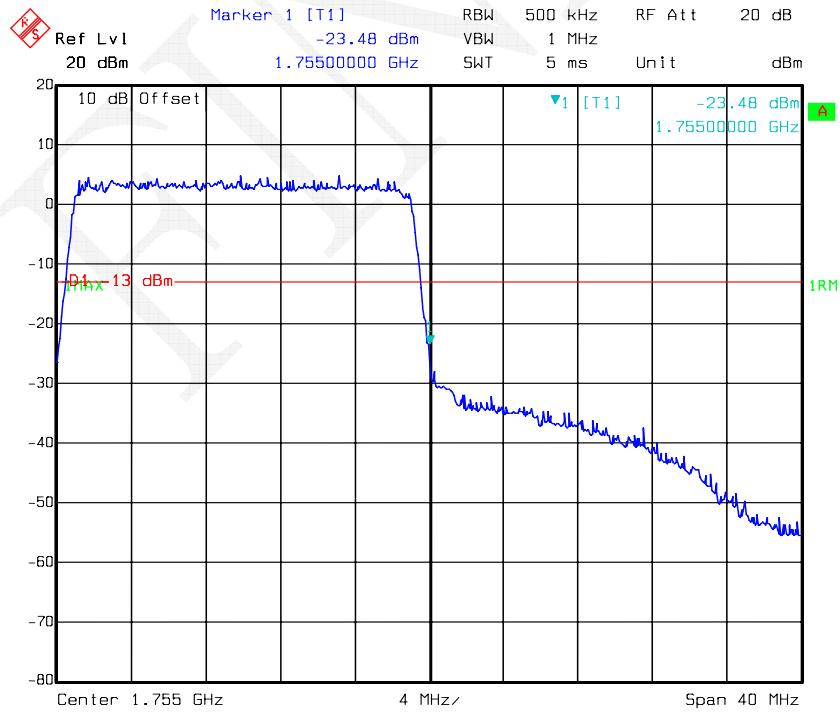
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16QAM_10MHz_FULL RB_Left*16QAM_10MHz_FULL RB_Right*

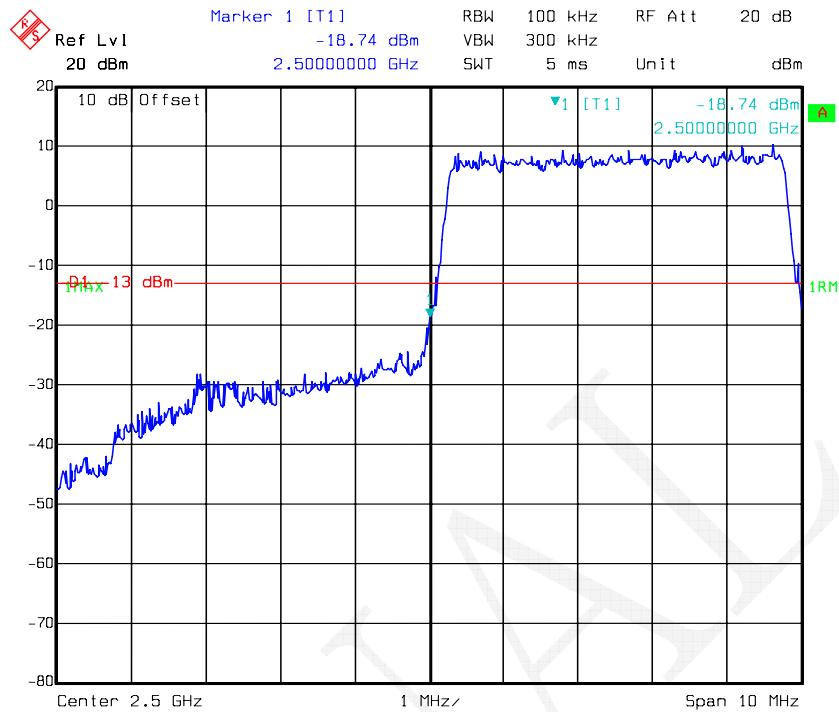
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16QAM_20MHz_FULL RB_Left

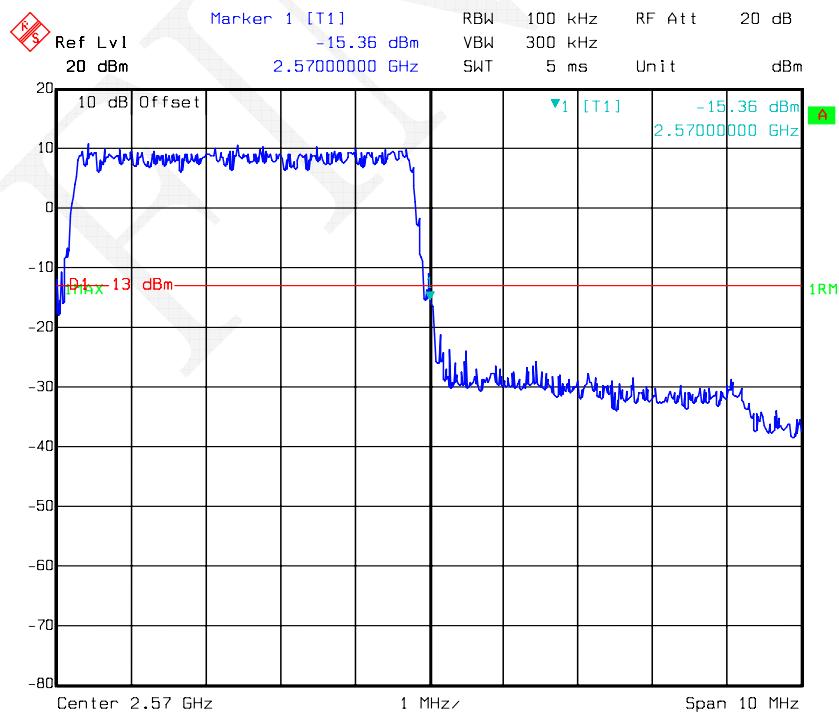
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16QAM_20MHz_FULL RB_Right

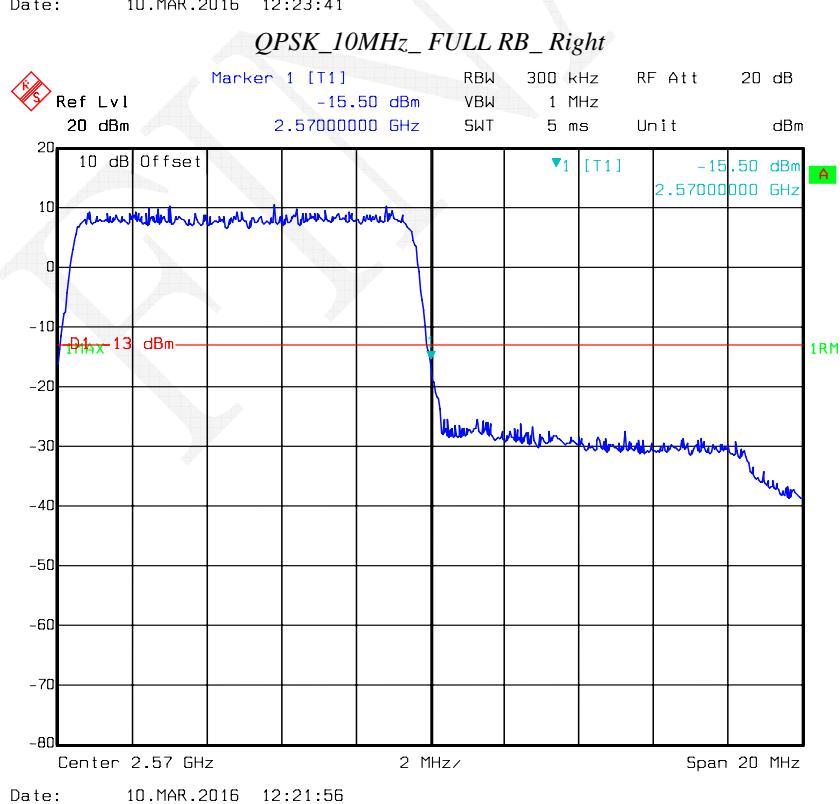
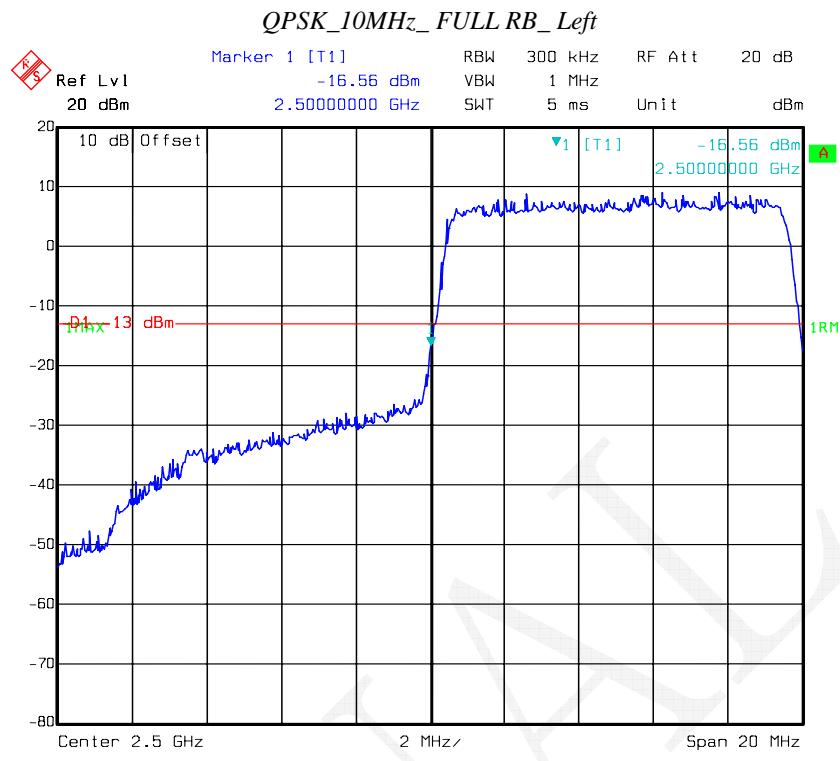
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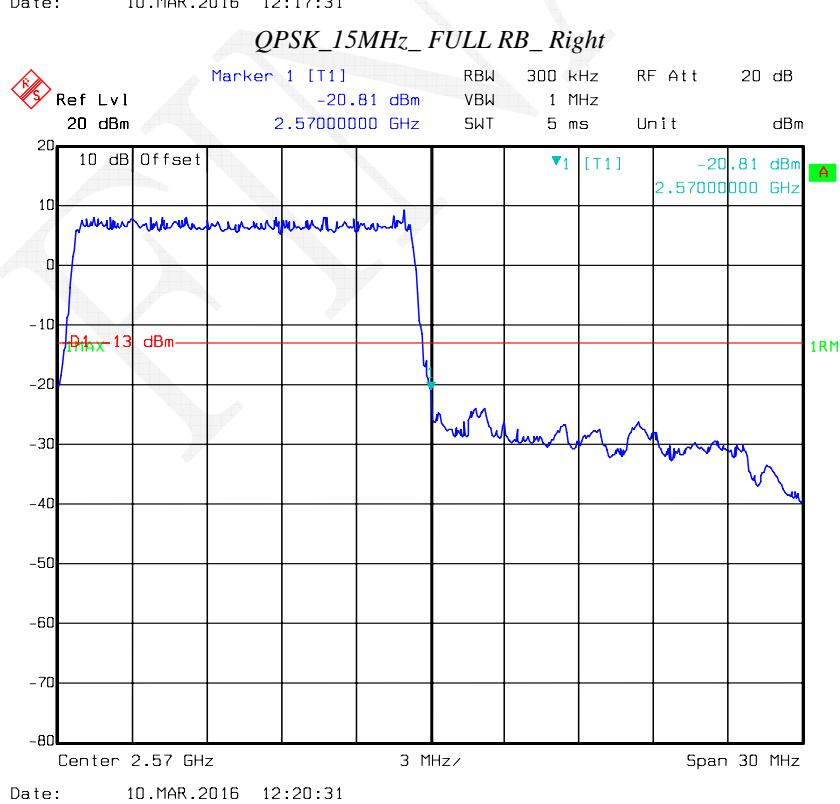
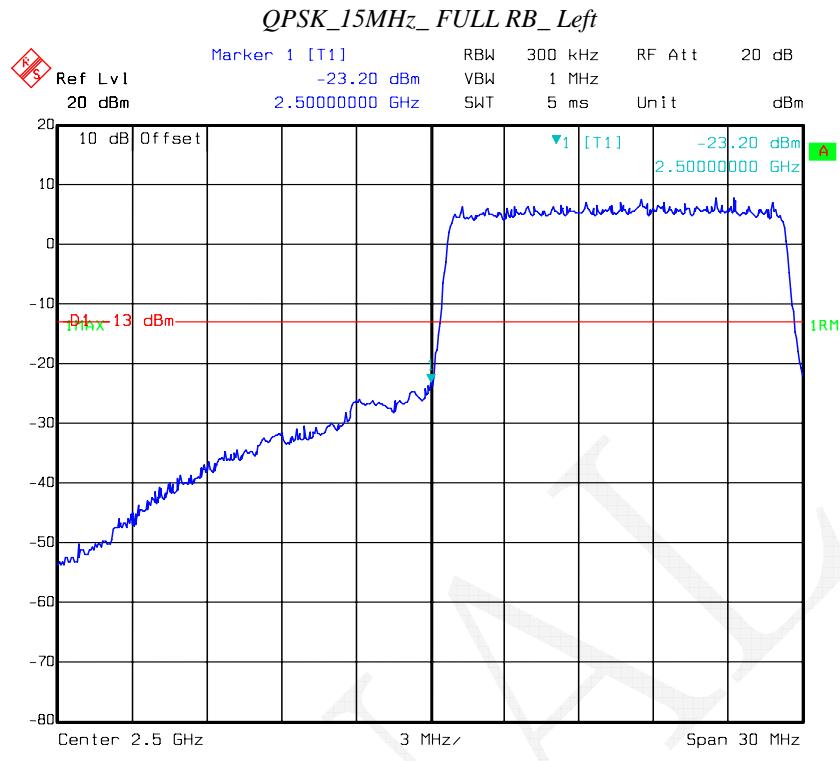
LTE Band VII*QPSK_5MHz_FULL RB_Left*

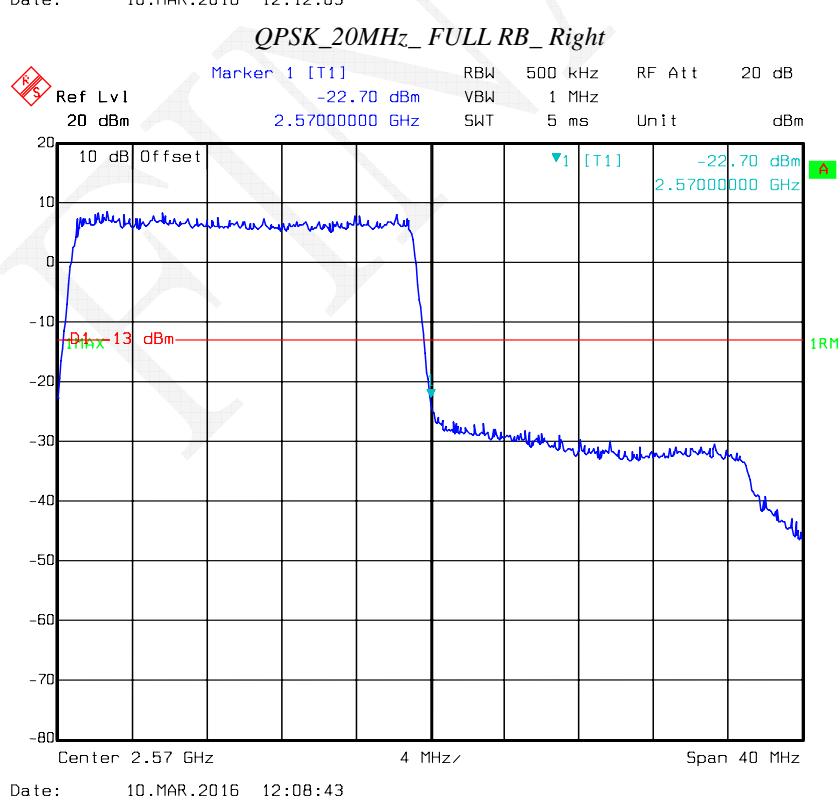
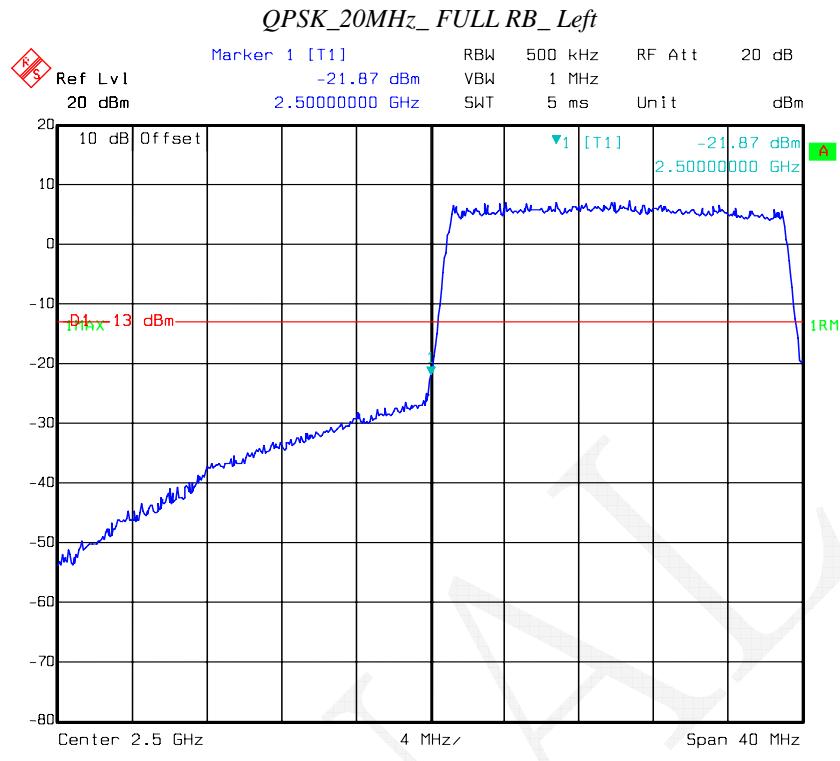
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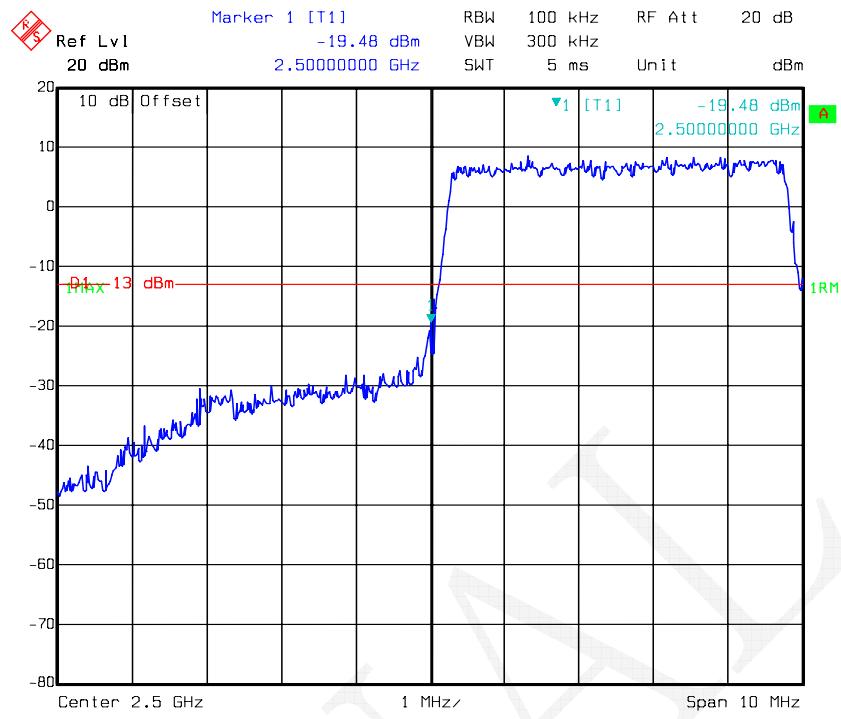
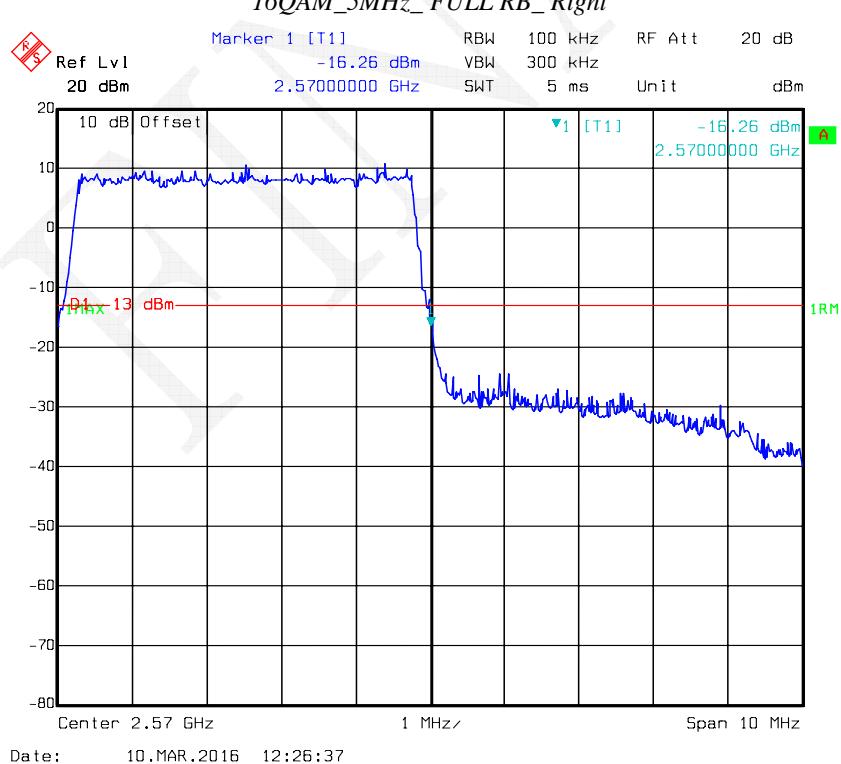
QPSK_5MHz_FULL RB_Right

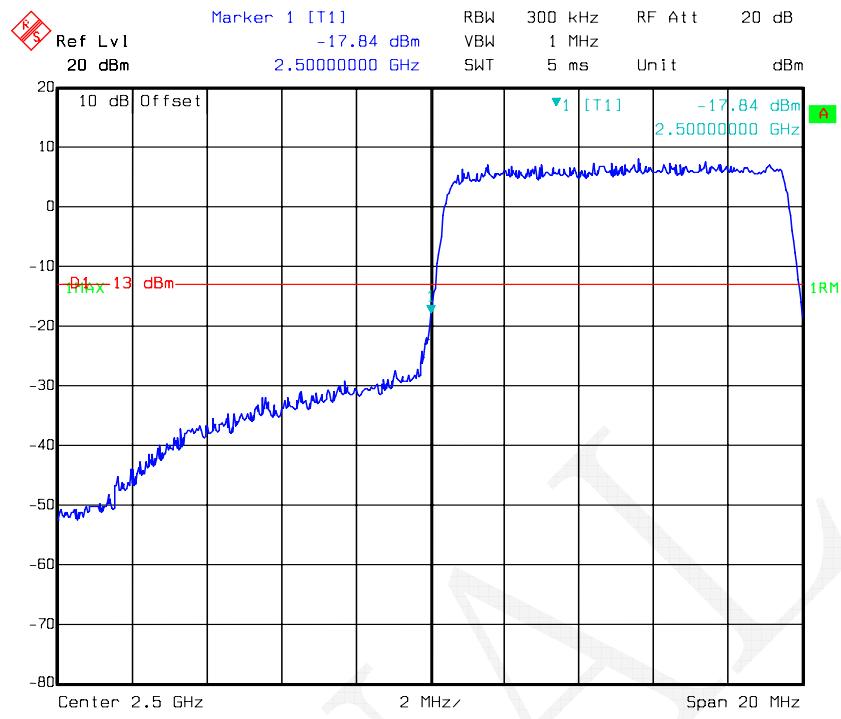
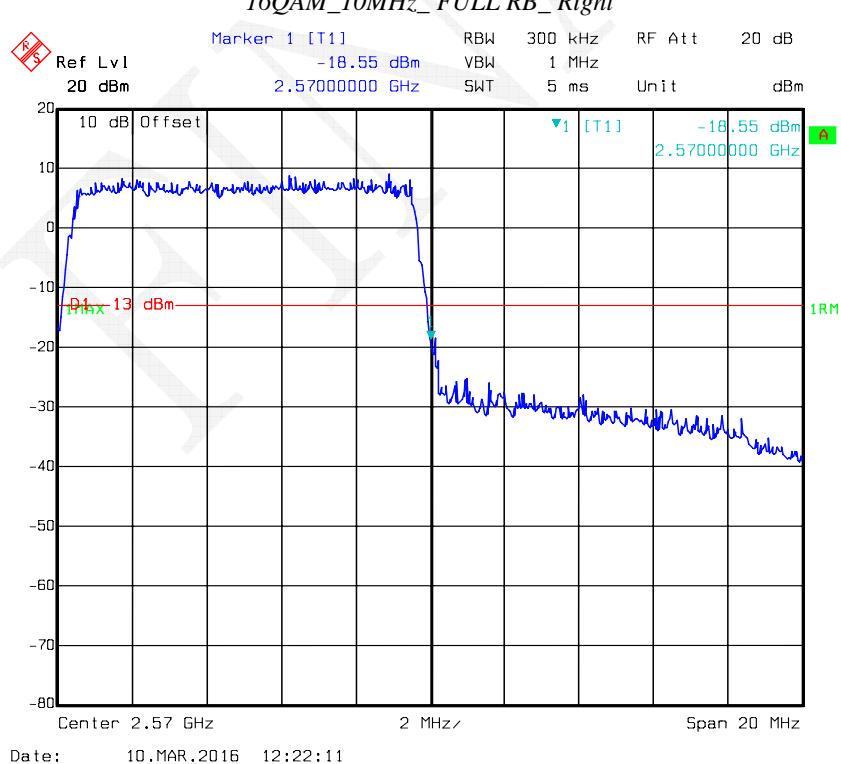
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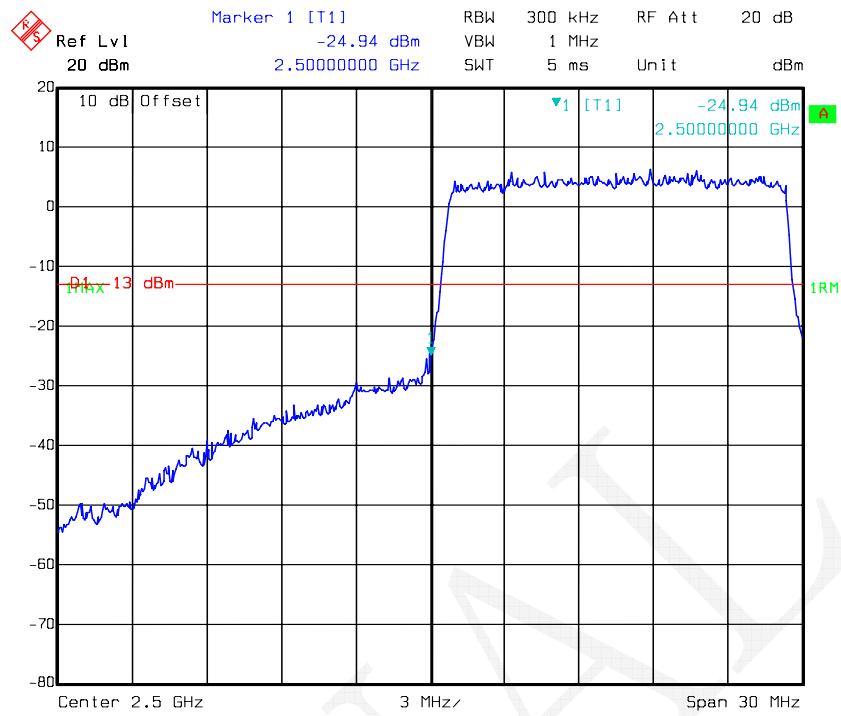
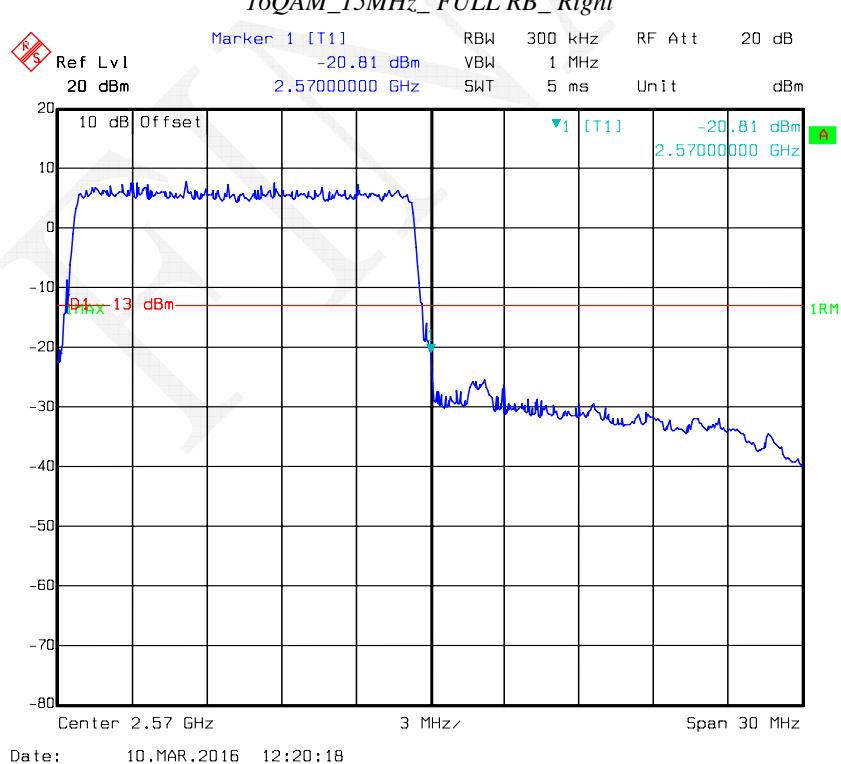


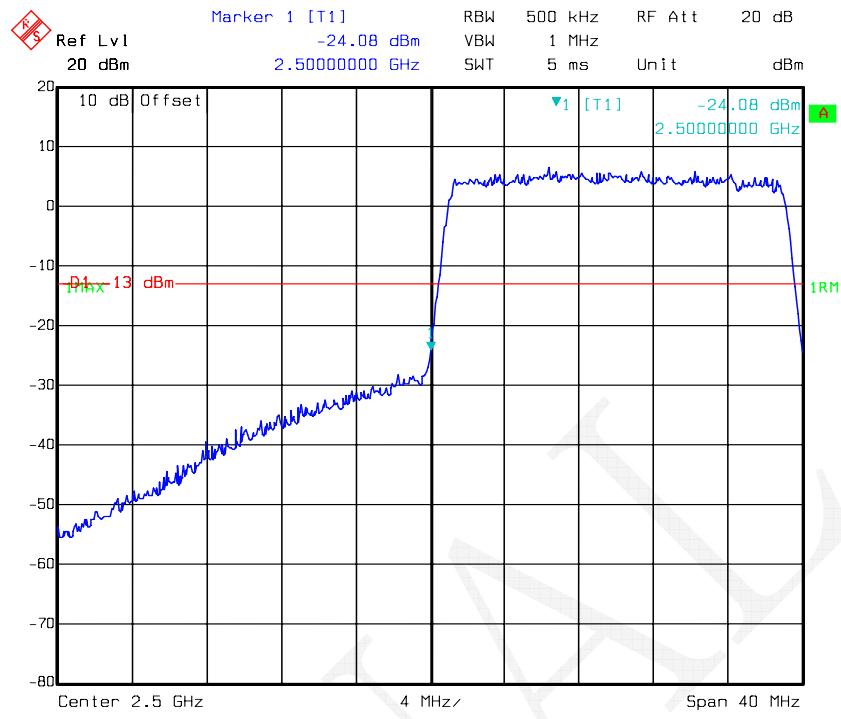
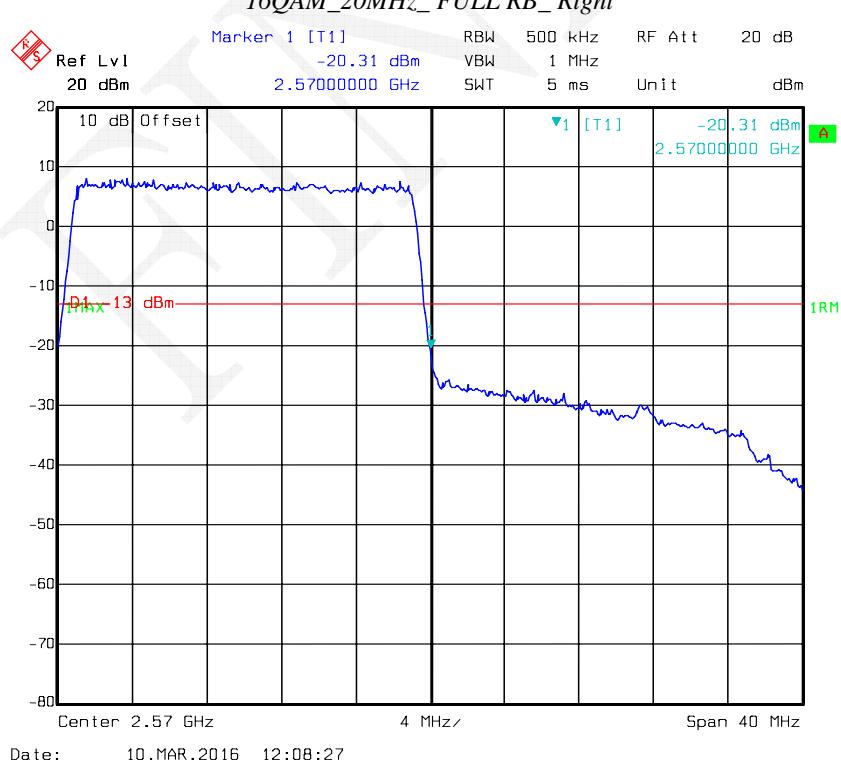


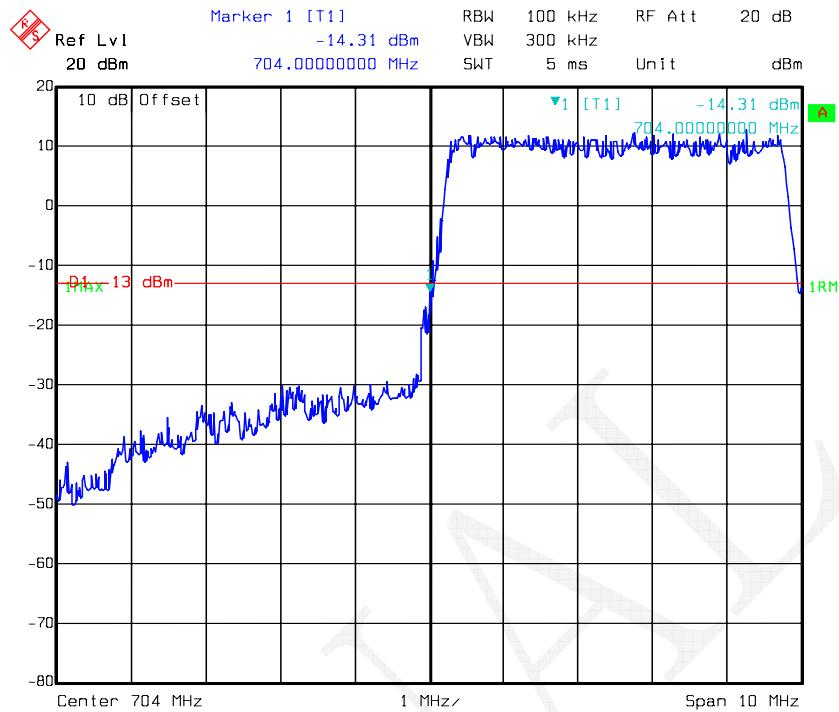


16QAM_5MHz_FULL RB_Left**16QAM_5MHz_FULL RB_Right**

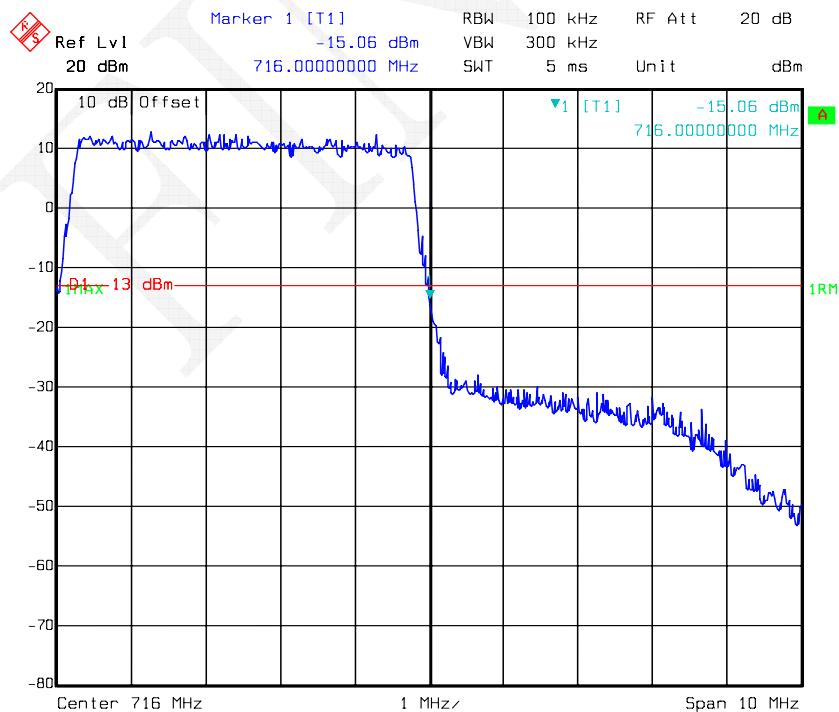
16QAM_10MHz_FULL RB_Left*16QAM_10MHz_FULL RB_Right*

16QAM_15MHz_FULL RB_Left*16QAM_15MHz_FULL RB_Right*

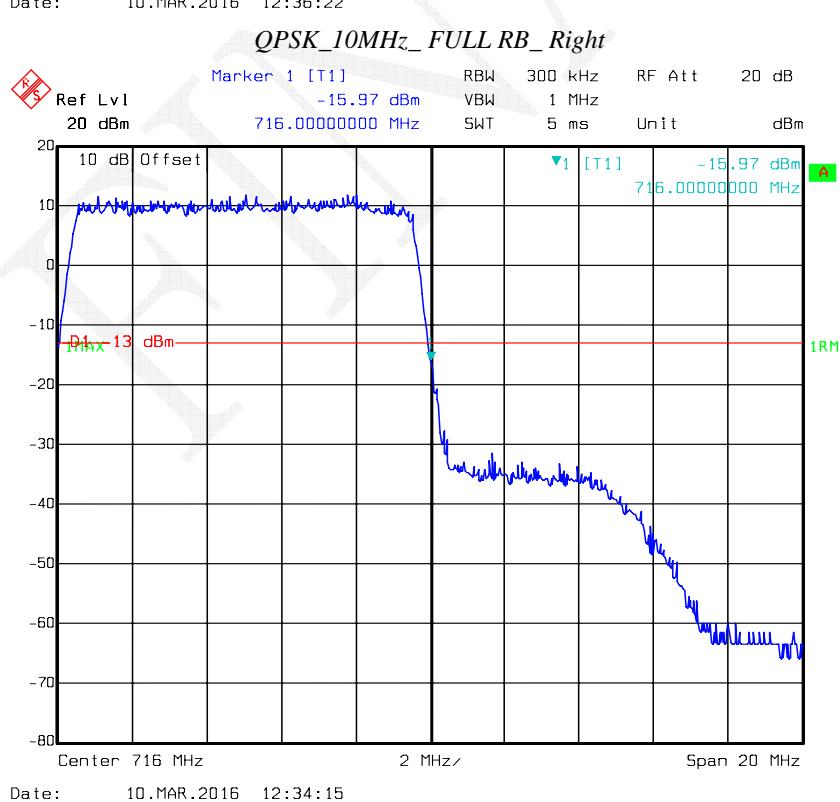
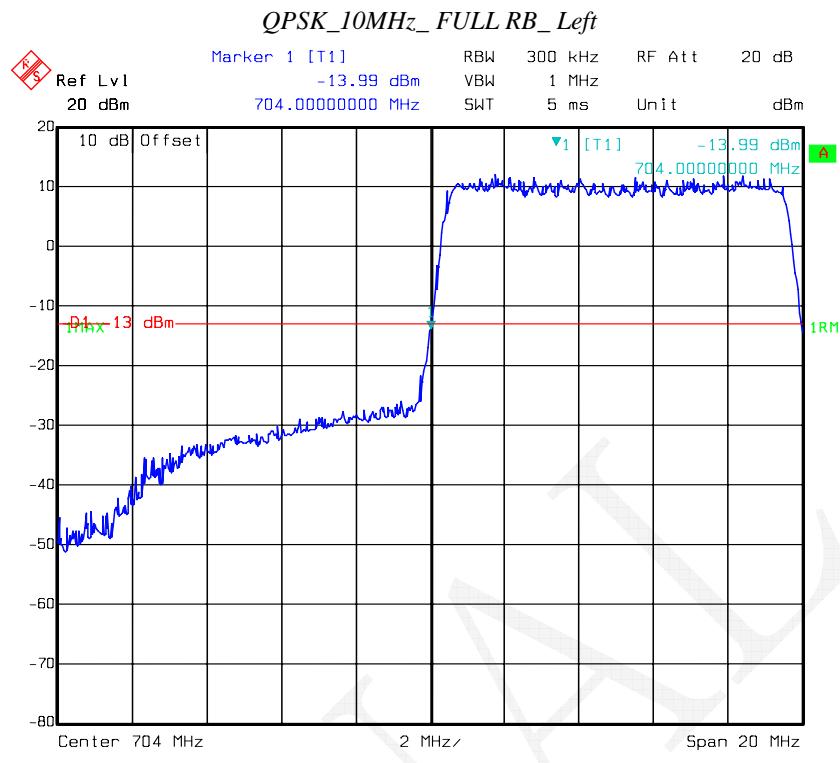
16QAM_20MHz_FULL RB_Left*16QAM_20MHz_FULL RB_Right*

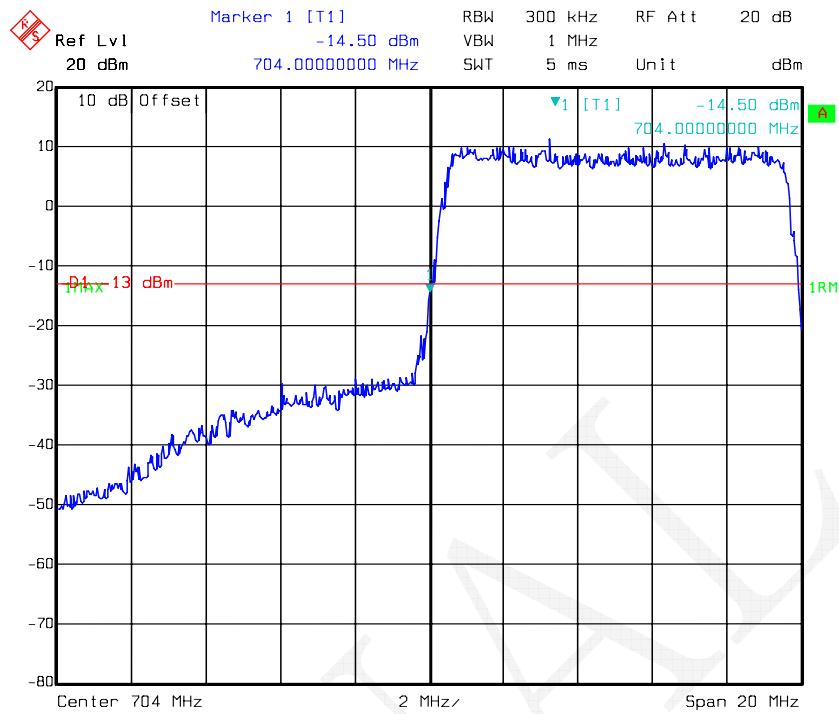
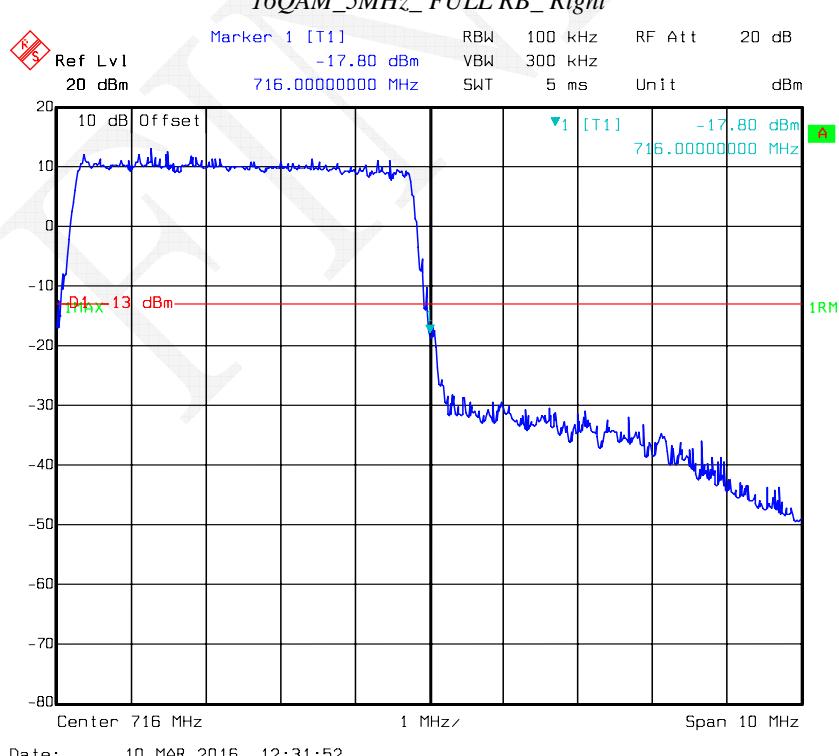
LTE Band 17*QPSK_5MHz_FULL RB_Left*

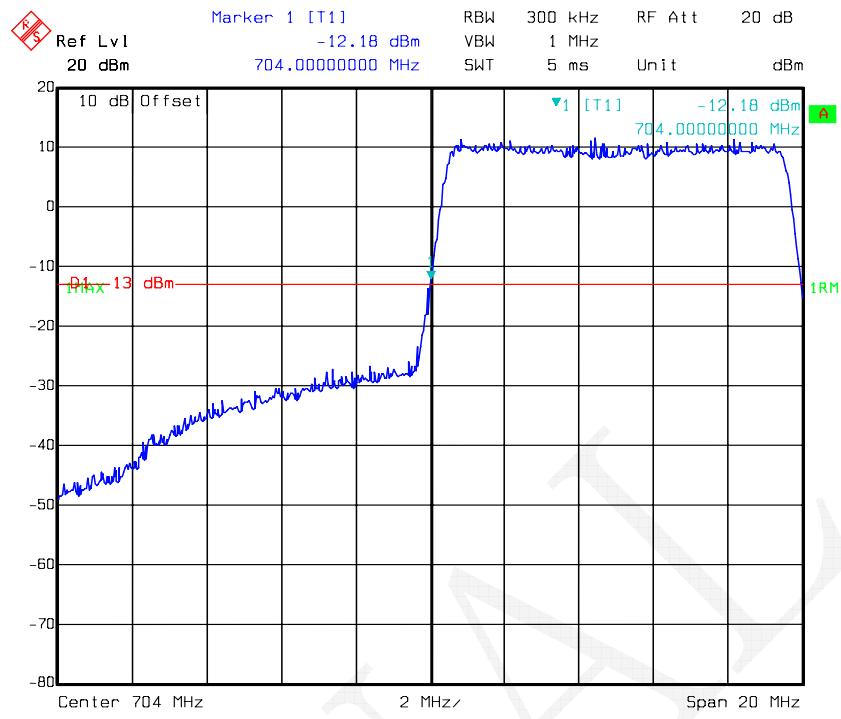
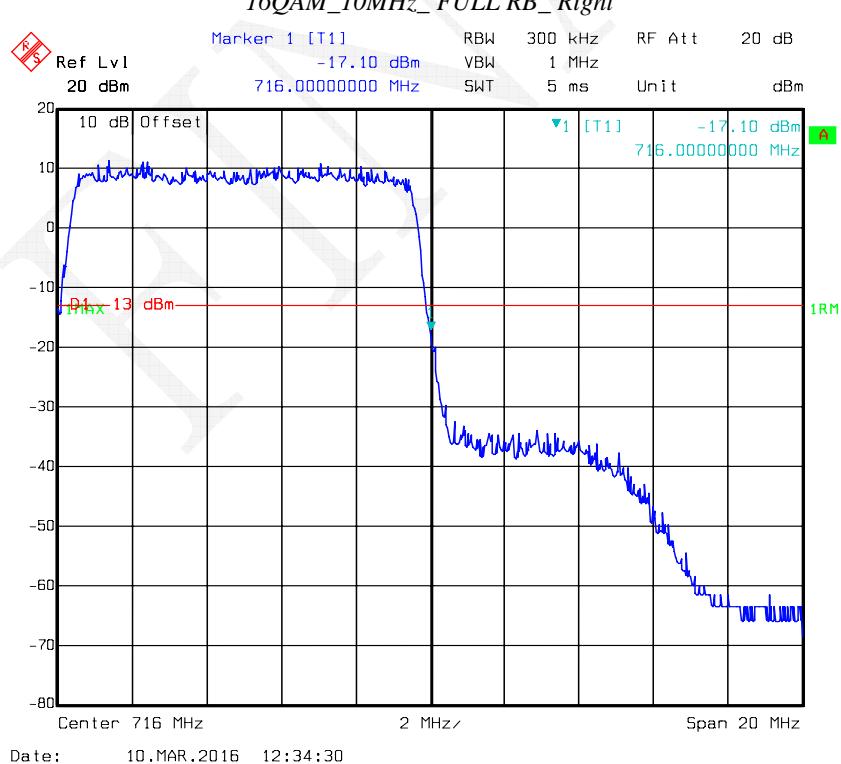
Date: 10.MAR.2016 12:30:09

QPSK_5MHz_FULL RB_Right

Date: 10.MAR.2016 12:32:11



16QAM_5MHz_FULL RB_Left*16QAM_5MHz_FULL RB_Right*

16QAM_10MHz_FULL RB_Left*16QAM_10MHz_FULL RB_Right*

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

Applicable Standard

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

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

Frequency Tolerance for Transmitters in the Public Mobile Services

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

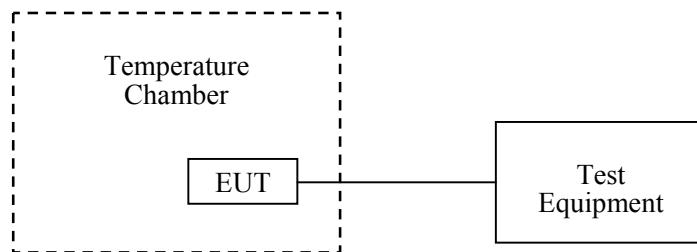
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

Test Procedure

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

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

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



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2015-09-10	2016-09-09
R&S	Universal Radio Communication Tester	CMU200	109 038	2015-05-09	2016-05-09
R&S	Wideband Radio Communication Tester	CMW500	106891	2015-11-23	2016-11-23
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10
Pasternack	RF Coaxial Cable	RF-01	/	2015-05-06	2016-05-06

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

Test Data**Environmental Conditions**

Temperature:	22.8 °C
Relative Humidity:	37 %
ATM Pressure:	101.8 kPa

The testing was performed by Allen Qiao on 2016-03-11.

Cellular Band (Part 22H)

GMSK, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	-1	-0.001	2.5
-20	3.8	-5	-0.006	2.5
-10	3.8	-3	-0.004	2.5
0	3.8	-4	-0.005	2.5
10	3.8	1	0.001	2.5
20	3.8	3	0.004	2.5
30	3.8	0	0.000	2.5
40	3.8	2	0.002	2.5
50	3.8	4	0.005	2.5
25	3.6	-6	-0.007	2.5
25	4.3	-3	-0.004	2.5

Cellular Band (Part 22H)

EDGE, Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	5	0.006	2.5
-20	3.8	-4	-0.005	2.5
-10	3.8	-2	-0.002	2.5
0	3.8	3	0.004	2.5
10	3.8	2	0.002	2.5
20	3.8	1	0.001	2.5
30	3.8	0	0.000	2.5
40	3.8	2	0.002	2.5
50	3.8	1	0.001	2.5
25	3.6	6	0.007	2.5
25	4.3	4	0.005	2.5

PCS Band (Part 24E)

GMSK, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
-30	3.8	1	0.001	Pass
-20	3.8	-1	-0.001	Pass
-10	3.8	4	0.002	Pass
0	3.8	2	0.001	Pass
10	3.8	3	0.002	Pass
20	3.8	4	0.002	Pass
30	3.8	5	0.003	Pass
40	3.8	-2	-0.001	Pass
50	3.8	-4	-0.002	Pass
25	3.6	0	0.000	Pass
25	4.3	1	0.001	Pass

PCS Band (Part 24E)

EDGE, Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
-30	3.8	4	0.003	Pass
-20	3.8	6	0.001	Pass
-10	3.8	5	0.002	Pass
0	3.8	7	-0.001	Pass
10	3.8	11	-0.002	Pass
20	3.8	13	0.000	Pass
30	3.8	15	-0.002	Pass
40	3.8	12	0.001	Pass
50	3.8	13	-0.003	Pass
25	3.6	8	-0.001	Pass
25	4.3	9	0.003	Pass

WCDMA Band V: Re199

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.8	-15	-0.018	2.5
-20	3.8	-17	-0.020	2.5
-10	3.8	-19	-0.023	2.5
0	3.8	-21	-0.025	2.5
10	3.8	-20	-0.024	2.5
20	3.8	-12	-0.014	2.5
30	3.8	-14	-0.017	2.5
40	3.8	-13	-0.016	2.5
50	3.8	-18	-0.022	2.5
25	3.6	-12	-0.014	2.5
25	4.3	-14	-0.017	2.5

WCDMA Band IV: Re199

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	-5	-0.003	Pass
-20	3.8	-3	-0.002	Pass
-10	3.8	1	0.001	Pass
0	3.8	3	0.002	Pass
10	3.8	4	0.002	Pass
20	3.8	5	0.003	Pass
30	3.8	1	0.001	Pass
40	3.8	2	0.001	Pass
50	3.8	0	0.000	Pass
25	3.6	-2	-0.001	Pass
25	4.3	-6	-0.003	Pass

WCDMA Band II: Re199

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	6	0.003	Pass
-20	3.8	2	0.001	Pass
-10	3.8	4	0.002	Pass
0	3.8	-2	-0.001	Pass
10	3.8	-4	-0.002	Pass
20	3.8	0	0.000	Pass
30	3.8	-3	-0.002	Pass
40	3.8	1	0.001	Pass
50	3.8	-5	-0.003	Pass
25	3.6	-1	-0.001	Pass
25	4.3	5	0.003	Pass

WCDMA Band V: HSUPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.8	5	0.003	2.5
-20	3.8	7	0.004	2.5
-10	3.8	-2	-0.001	2.5
0	3.8	6	0.003	2.5
10	3.8	-4	-0.002	2.5
20	3.8	1	0.001	2.5
30	3.8	2	0.001	2.5
40	3.8	3	0.002	2.5
50	3.8	-3	-0.002	2.5
25	3.6	0	0.000	2.5
25	4.3	4	0.002	2.5

WCDMA Band IV: HSUPA

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V_{DC}	Hz	ppm	ppm
-30	3.8	3	0.002	2.5
-20	3.8	5	0.003	2.5
-10	3.8	-2	-0.001	2.5
0	3.8	-6	-0.003	2.5
10	3.8	-7	-0.004	2.5
20	3.8	4	0.002	2.5
30	3.8	6	0.003	2.5
40	3.8	2	0.001	2.5
50	3.8	-2	-0.001	2.5
25	3.6	-4	-0.002	2.5
25	4.3	1	0.001	2.5

WCDMA Band II: HSUPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V_{DC}	Hz	ppm	
-30	3.8	5	0.003	Pass
-20	3.8	7	0.004	Pass
-10	3.8	-2	-0.001	Pass
0	3.8	6	0.003	Pass
10	3.8	-4	-0.002	Pass
20	3.8	1	0.001	Pass
30	3.8	2	0.001	Pass
40	3.8	3	0.002	Pass
50	3.8	-3	-0.002	Pass
25	3.6	0	0.000	Pass
25	4.3	4	0.002	Pass

WCDMA Band V: HSDPA

Middle Channel, $f_c = 836.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	-2	-0.002	2.5
-20	3.8	-5	-0.006	2.5
-10	3.8	-4	-0.005	2.5
0	3.8	0	0.000	2.5
10	3.8	3	0.004	2.5
20	3.8	2	0.002	2.5
30	3.8	1	0.001	2.5
40	3.8	-1	-0.001	2.5
50	3.8	-3	-0.004	2.5
25	3.6	0	0.000	2.5
25	4.3	4	0.005	2.5

WCDMA Band IV: HSDPA

Middle Channel, $f_c = 1732.6$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Limit
	V _{DC}	Hz	ppm	ppm
-30	3.8	3	0.002	2.5
-20	3.8	5	0.003	2.5
-10	3.8	-2	-0.001	2.5
0	3.8	-6	-0.003	2.5
10	3.8	-7	-0.004	2.5
20	3.8	4	0.002	2.5
30	3.8	6	0.003	2.5
40	3.8	2	0.001	2.5
50	3.8	-2	-0.001	2.5
25	3.6	-4	-0.002	2.5
25	4.3	1	0.001	2.5

WCDMA Band II: HSDPA

Middle Channel, $f_c = 1880.0$ MHz				
Temperature	Voltage	Frequency Error	Frequency Error	Result
	V _{DC}	Hz	ppm	
-30	3.8	4	0.002	Pass
-20	3.8	3	0.002	Pass
-10	3.8	5	0.003	Pass
0	3.8	0	0.000	Pass
10	3.8	1	0.001	Pass
20	3.8	-4	-0.002	Pass
30	3.8	-3	-0.002	Pass
40	3.8	-1	-0.001	Pass
50	3.8	-3	-0.002	Pass
25	3.6	-2	-0.001	Pass
25	4.3	6	0.003	Pass

LTE Band II:

QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
	V_{DC}	Hz	ppm	
-30	3.8	-2.31	-0.0012	Pass
-20	3.8	-2.16	-0.0011	Pass
-10	3.8	-2.28	-0.0012	Pass
0	3.8	-2.19	-0.0012	Pass
10	3.8	-2.25	-0.0012	Pass
20	3.8	-2.22	-0.0012	Pass
30	3.8	-2.32	-0.0012	Pass
40	3.8	-2.22	-0.0012	Pass
50	3.8	-2.31	-0.0012	Pass
25	3.6	-2.27	-0.0012	Pass
25	4.3	-2.28	-0.0012	Pass

16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 1880$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
	V_{DC}	Hz	ppm	
-30	3.8	-3.20	-0.0017	Pass
-20	3.8	-3.08	-0.0016	Pass
-10	3.8	-3.11	-0.0017	Pass
0	3.8	-3.13	-0.0017	Pass
10	3.8	-3.16	-0.0017	Pass
20	3.8	-3.12	-0.0017	Pass
30	3.8	-3.15	-0.0017	Pass
40	3.8	-3.13	-0.0017	Pass
50	3.8	-3.18	-0.0017	Pass
25	3.6	-3.09	-0.0016	Pass
25	4.3	-3.15	-0.0017	Pass

LTE Band IV:

QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 1732.5$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
V _{DC}	Hz	ppm	ppm	
-30	3.8	0.16	0.0001	Pass
-20	3.8	0.18	0.0001	Pass
-10	3.8	0.12	0.0001	Pass
0	3.8	0.20	0.0001	Pass
10	3.8	0.22	0.0001	Pass
20	3.8	0.19	0.0001	Pass
30	3.8	0.59	0.0003	Pass
40	3.8	0.51	0.0003	Pass
50	3.8	0.67	0.0004	Pass
25	3.6	0.62	0.0004	Pass
25	4.3	0.61	0.0004	Pass

16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 1732.5$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
V _{DC}	Hz	ppm	ppm	
-30	3.8	0.11	0.0001	Pass
-20	3.8	0.29	0.0002	Pass
-10	3.8	0.21	0.0001	Pass
0	3.8	0.18	0.0001	Pass
10	3.8	0.21	0.0001	Pass
20	3.8	0.17	0.0001	Pass
30	3.8	0.11	0.0001	Pass
40	3.8	0.21	0.0001	Pass
50	3.8	0.21	0.0001	Pass
25	3.6	0.24	0.0001	Pass
25	4.3	0.17	0.0001	Pass

LTE Band VII:

QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 2535$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
V _{DC}	Hz	ppm		
-30	3.8	3.79	0.0015	Pass
-20	3.8	3.71	0.0015	Pass
-10	3.8	3.70	0.0015	Pass
0	3.8	3.68	0.0015	Pass
10	3.8	3.80	0.0015	Pass
20	3.8	3.61	0.0014	Pass
30	3.8	3.75	0.0015	Pass
40	3.8	3.81	0.0015	Pass
50	3.8	3.72	0.0015	Pass
25	3.6	3.70	0.0015	Pass
25	4.3	3.84	0.0015	Pass

16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 2535$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
V _{DC}	Hz	ppm		
-30	3.8	3.20	0.0013	Pass
-20	3.8	3.18	0.0013	Pass
-10	3.8	3.14	0.0012	Pass
0	3.8	3.17	0.0013	Pass
10	3.8	3.16	0.0012	Pass
20	3.8	3.41	0.0013	Pass
30	3.8	3.39	0.0013	Pass
40	3.8	3.21	0.0013	Pass
50	3.8	3.14	0.0012	Pass
25	3.6	3.19	0.0013	Pass
25	4.3	3.16	0.0012	Pass

LTE Band 17:

QPSK, Channel Bandwidth:10MHz Middle Channel, $f_c = 710$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
	V_{DC}	Hz	ppm	
-30	3.8	0.59	0.0008	Pass
-20	3.8	0.47	0.0007	Pass
-10	3.8	0.55	0.0008	Pass
0	3.8	0.57	0.0008	Pass
10	3.8	0.57	0.0008	Pass
20	3.8	0.50	0.0007	Pass
30	3.8	0.47	0.0007	Pass
40	3.8	0.51	0.0007	Pass
50	3.8	0.58	0.0008	Pass
25	3.6	0.59	0.0008	Pass
25	4.3	0.47	0.0007	Pass

16QAM, Channel Bandwidth:10MHz Middle Channel, $f_c = 710$ MHz				
Temperature	Voltage	Frequency	Frequency	Result
		Error	Error	
	V_{DC}	Hz	ppm	
-30	3.8	0.75	0.0011	Pass
-20	3.8	0.76	0.0011	Pass
-10	3.8	0.72	0.0010	Pass
0	3.8	0.70	0.0010	Pass
10	3.8	0.73	0.0010	Pass
20	3.8	0.79	0.0011	Pass
30	3.8	0.77	0.0011	Pass
40	3.8	0.73	0.0010	Pass
50	3.8	0.68	0.0010	Pass
25	3.6	0.77	0.0011	Pass
25	4.3	0.72	0.0010	Pass

Note: The fundamental emissions stay within the authorized bands of operation based on the frequency deviation measured is small.

DECLARATION LETTER



Posh Mobile Limited

Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

Tel: 0085221229685 Fax: 0085239044979

DECLARATION OF SIMILARITY

Date: 2016-3-31

To:

FEDERAL COMMUNICATIONS COMMISSION

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Dear Sir or Madam:

We, Posh Mobile Limited, hereby authorize Bay Area Compliance Laboratories Corp. to act as a laboratory for testing and test report generation for the following project(s):

(Product name: Kick Pro LTE, FCC ID: 2ABN6L520)

The product have four kinds of adapters, that model name:TL6D-0501000,PART NO.:C02-L520,C03-L520,C04-L520 is electrically identical with the adapter PART NO.:C01-L520 which was tested by BACL with the same electromagnetic emissions and electromagnetic compatibility characteristics.

The detail information,please check the reports.

Sincerely,

signature

K.N.Chong

Manager

E-mail: poshmobileld@yahoo.com

Tel: 0085221229685

Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong



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