FCC Test Report

Application Purpose	:	Original grant
Applicant Name:	:	INFINIX MOBILITY LIMITED
FCC ID	:	2AIZN-X602
Equipment Type	:	Mobile phone
Model Name	:	X602
Report Number	:	FCC16093968A-5
Standard(S)	:	FCC Part 22H&24E&27 Rules
Date Of Receipt	:	September 05, 2016
Date Of Issue	:	October 12, 2016

Test By :

（Daisy Qin)

Reviewed By :

(Sol Qin)

Authorized by :

(Michal Ling)

Prepared by : **QTC Certification & Testing Co., Ltd.**
2nd Floor,BI Building,Fengyeyuan   Industrial Plant,, Liuxian 2st. Road, Xin'an Street, Bao'an District,,Shenzhen,518000
Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	October 12, 2016	Valid	Original Report
V1.1	/	November 21, 2016	Valid	Original Report

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1 CERTIFICATION

Applicant	INFINIX MOBILITY LIMITED
Address	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China
Equipment Type	Mobile phone
Brand Name	Infinix
Test Model	X602
Hardware version:	V1.1_B1-BOM
Software version:	X602-H972B1-M-160823V7
Series Model	N/A
Difference description	N/A
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

All measurement facilities used to collect the measurement data are located at QTC Certification & Testing Co., Ltd.
Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014 and TIA/EIA 603-D:2010. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E and 27.
The test results of this report relate only to the tested sample identified in this report.

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2 EUT INFORMATION

Table 2.1.1 General Information

Equipment Type:	Mobile phone
Hardware version:	V1.1_B1-BOM
Software version:	X602-H972B1-M-160823V7
Frequency Bands:	☒GSM 850　☒PCS 1900　(U.S. Bands) UTRA Bands: ☒UTRA Band 2 ☒UTRA Band 4 ☒UTRA Band 5 E-UTRA Bands: ☒ E-UTRA Band 2　　☒ E-UTRA Band 4 ☒ E-UTRA Band 7
Antenna Type:	Internal Antenna
Antenna gain:	PCS 1900/UTRA Band 2/E-UTRA Band 2: -4.0dBi UTRA Band 4/E-UTRA Band 4: -4.0dBi GSM850/UTRA Band 5: -4.0dBi E-UTRA Band 7: -4.0dBi
Battery information:	Li-Polymer Battery : BL-40FX Voltage: 3.85V　Capacity: 4000mAh Limited Charge Voltage: 4.4V
Adapter Information:	Adapter: CQ-18KX Input: 100-240V 50/60Hz 600mA Output: 5V-6V 3A Output: 6V-9V 2A Output: 9V-12V 1.5A
Card(S):	Card 1: E-UTRA Card Slot Card 2: GSM Card Slot
Max power:	See Table 2.1.2
Extreme Vol. Limits:	DC 3.45V to 4.4V (Normal: DC 3.85V)
Extreme Temp. Tolerance	-10℃ to +65℃

Note 1: The High Voltage DC 4.4V and Low Voltage DC 3.45V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage.

Table 2.1.2 The Basic Technical Specification for Working BAND(S).

OPERATION BAND(S)	Power Class	Mod.	Max Average (dBm)	Max Peak Power (dBm)
GSM850	Class 4	GMSK	32.33	33.14
DCS1900	Class 1	GMSK	28.87	29.77
UTRA BAND 2	Class 3	QPSK	23.27	24.39
UTRA BAND 4	Class 3	QPSK	23.37	24.45
UTRA BAND 5	Class 3	QPSK	23.36	24.15
E-UTRA Band 2	Class 3	QPSK	21.50	24.48
E-UTRA Band 2	Class 3	16QAM	21.49	22.47
E-UTRA Band 4	Class 3	QPSK	21.49	22.50
E-UTRA Band 4	Class 3	16QAM	21.50	22.48
E-UTRA Band 7	Class 3	QPSK	22.50	23.50
E-UTRA Band 7	Class 3	16QAM	22.49	23.49

3 TEST DESCRIPTION

3.1 Test Facility
The test site used to collect the radiated data is located at:
QTC Certification & Testing Co., Ltd.
Registration Number: 588523

3.2 EUT System Configuration
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

Fig. 3.2-1 Configuration of EUT System

EUT

Table 3.2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Mobile phone	X602	2AIZN-X602	EUT

***Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

3.3 Description Of Test Channels And Test Modes

Test channels:

GSM 850			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	0.2	128	824.2
Mid Range	0.2	190	836.6
High Range	0.2	251	848.8

PCS 1900			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	0.2	512	1850.2
Mid Range	0.2	661	1880
High Range	0.2	810	1909.8

URTA BAND 2			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	9263	1852.6
Mid Range	5	9400	1880
High Range	5	9537	1907.4

URTA BAND 4			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	1313	1712.6
Mid Range	5	1450	1740
High Range	5	1512	1752.4

URTA BAND 5			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	4133	826.6
Mid Range	5	4175	835
High Range	5	4232	846.4

LTE BAND 2			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	1.4	18607	1850.7
	3	18615	1851.5
	5	18625	1852.5
	10	18650	1855
	15	18675	1857.5
	20	18700	1860
Mid Range	1.4/3/5/10 15 /20	18900	1880
High Range	1.4	19193	1909.3
	3	19185	1908.5
	5	19175	1907.5
	10	19150	1905
	15	19125	1902.5
	20	19100	1900

LTE BAND 4			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	1.4	19957	1710.7
	3	19965	1711.5
	5	19975	1712.5
	10	20000	1715
	15	20025	1717.5
	20	20050	1720
Mid Range	1.4/3/5/10/15/20	20175	1732.5
High Range	1.4	20393	1754.3
	3	20385	1753.5
	5	20375	1752.5
	10	20350	1750
	15	20325	1747.5
	20	20300	1745

LTE BAND 7			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	20775	2502.5
	10	20800	2505
	15	20825	2507.5
	20	20850	2510
Mid Range	5/10/15/20	21100	2535
High Range	5	21425	2567.5
	10	21400	2565
	15	21375	2562.5
	20	21350	2560

Note 1: both QPSK&16QAM modulation has been measured;

Note 2: The worst condition was recorded in the test report if no other modes test data.

3.4 Equipment Modifications

Not available for this EUT intended for grant.

4 SUMMARY OF TEST REQUIREMENTS AND RESULTS

BAND 2(PCS 1900/ E-UTRA Band 2/ UTRA Band 2):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §24.232(c)	EIRP ≤ 2W(33dBm)	Pass
Bandwidth	§2.1049 §24.238(a)	OBW: No limit. EBW: No limit.	Pass
Band Edges	§2.1051, §24.238(a)	-13dBm	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	-13dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	-13dBm	Pass
Frequency Stability	§2.1055, §24.235	the fundamental emission stays within the authorized frequency block.	Pass
Peak to average ratio	§24.232(d)	<13dB	Pass

BAND 4(UTRA Band 4/E-UTRA Band 4):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §27.50(d)	EIRP ≤ 1W(30dBm)	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges	§2.1051, §27.53(h)	-13dBm	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	-13dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	-13dBm	Pass
Frequency Stability	§2.1055, §27.54	the fundamental emissions stay within the authorized bands of operation. (2.5ppm)	Pass
Peak to average ratio	§27.50(d)	<13dB	Pass

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BAND 5(GSM850/ UTRA Band 5):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §2.913(a)	EIRP ≤ 7W(38.5dBm)	Pass
Occupied Bandwidth	§2.1049	OBW: No limit.	Pass
Emission Bandwidth	22.917(b)	EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §22.917(a)(b)	KDB 971 168 D02 971168 D02 Misc OOBE License Digital Systems v01 &27.53(m) for detail the limit is upon different OBW	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	-13dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	-13dBm	Pass
Frequency Stability	§2.1055, §22.355	the fundamental emissions stay within the authorized bands of operation. (2.5ppm)	Pass

BAND 7(E-UTRA Band 7):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §27.50(h)	EIRP ≤ 2W(33dBm)	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges	§2.1051, §27.53(m)	KDB 971 168 D02 971168 D02 Misc OOBE License Digital Systems v01 &27.53(m) for detail the limit is upon different OBW	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	-25dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	-25dBm	Pass
Frequency Stability	§2.1055, §27.54	the fundamental emissions stay within the authorized bands of operation. (2.5ppm)	Pass

MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
EMI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2016	08/18/2017
Coaxial cable	Megalon	LMR400	N/A	08/12/2016	08/11/2017
GPIB cable	Megalon	GPIB	N/A	08/12/2016	08/11/2017
Spectrum Analyzer	R&S	FSU	100114	08/19/2016	08/18/2017
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017
Pre-Amplifier	CDSI	PAP-1G18-38	--	10/13/2016	10/12/2017
Loop Antenna	R&S	HFH2-Z2	100296	10/13/2016	10/12/2017
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2016	09/12/2017
9*6*6 Anechoic	--	--	--	08/21/2016	08/20/2017
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	09/13/2016	09/12/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2016	08/22/2017
Power meter	Anritsu	ML2487A	6K00003613	08/23/2016	08/22/2017
Power meter	Anritsu	MA2491A	32263	08/23/2016	08/22/2017
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/24/2016	04/23/2017
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	08/21/2016	08/20/2017
Loop Antenna	EMCO	6502	00042960	08/22/2016	08/21/2017
Wideband Radio Communication Tester	R&S	CMW 500	103974	08/19/2016	08/18/2017
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2016	08/18/2017
H & T Chamber	Guangzhou gongwen	GDJS-500-40	0329	08/19/2016	08/18/2017

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5 EFFECTIVE (ISOTROPIC) RADIATED POWER

(a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

(b) For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as follows. In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.

(1) Single sideband transmitters in the A3A or A3J emission modes—by two tones at frequencies of 400 Hz and 1800 Hz (for 3.0 kHz authorized bandwidth), or 500 Hz and 2100 Hz (3.5 kHz authorized bandwidth), or 500 Hz and 2400 Hz (for 4.0 kHz authorized bandwidth), applied simultaneously, the input levels of the tones so adjusted that the two principal frequency components of the radio frequency signal produced are equal in magnitude.

(2) Single sideband transmitters in the A3H emission mode—by one tone at a frequency of 1500 Hz (for 3.0 kHz authorized bandwidth), or 1700 Hz (for 3.5 kHz authorized bandwidth), or 1900 Hz (for 4.0 kHz authorized bandwidth), the level of which is adjusted to produce a radio frequency signal component equal in magnitude to the magnitude of the carrier in this mode.

(3) As an alternative to paragraphs (b) (1) and (2) of this section other tones besides those specified may be used as modulating frequencies, upon a sufficient showing of need. However, any tones so chosen must not be harmonically related, the third and fifth order intermodulation products which occur must fall within the −25 dB step of the emission bandwidth limitation curve, the seventh and ninth order intermodulation product must fall within the 35 dB step of the referenced curve and the eleventh and all higher order products must fall beyond the −35 dB step of the referenced curve.

(4) Independent sideband transmitters having two channels by 1700 Hz tones applied simultaneously in both channels, the input levels of the tones so adjusted that the two principal frequency components of the radio frequency signal produced are equal in magnitude.

(5) Independent sideband transmitters having more than two channels by an appropriate signal or signals applied to all channels simultaneously. The input signal or signals shall simulate the input signals specified by the manufacturer for normal operation.

(6) Single-channel controlled-carrier transmitters in the A3 emission mode—by a 2500 Hz tone.

(c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations.

(d) In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test Procedure:

According to measurement procured TIA/EIA 603D:2010, The EUT is a placed on as turn table which is 1.5 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the maximum emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in ANSI C63.4:2014.

Measurement Result:

GSM850 BAND:

Mode	Frequency (MHz)	Peak Power	Avg.Burst Power	Tolerance	Duty cycle Factor(dB)	Frame Power(dBm)
GSM850	824.2	**33.14**	**32.33**	0.81	-9	23.33
	836.6	32.63	31.55	1.08	-9	22.55
	848.8	32.64	31.92	0.72	-9	22.92
GPRS850	824.2	29.77	28.92	0.85	-9	19.92
	836.6	30.21	29.32	0.89	-9	20.32
	848.8	30.35	29.19	1.17	-9	20.19

PCS1900 BAND:

Mode	Frequency (MHz)	Peak Power	Avg.Burst Power	Tolerance	Duty cycle Factor(dB)	Frame Power(dBm)
GSM1900	1850.2	**29.77**	**28.87**	0.90	-9	19.87
	1880	29.61	28.71	0.90	-9	19.71
	1909.8	30.29	28.79	1.49	-9	19.79
GPRS1900	1850.2	27.00	26.52	0.48	-9	17.52
	1880	27.60	26.69	0.92	-9	17.69
	1909.8	27.44	26.02	1.42	-9	17.02

UTRA BANDS:

BAND 2:

Mode	Frequency (MHz)	Peak Power (dBm)	Avg. Burst Power(dBm)	PAPR (dB)
RMC 12.2K	1852.6	**24.39**	**23.27**	1.12
	1880	24.16	22.55	1.60
	1907.4	23.74	22.71	1.02
HSDPA SUBTEST 1	1852.6	23.97	23.02	0.95
	1880	23.92	22.60	1.33
	1907.4	24.09	22.80	1.29
HSUPA SUBTEST 1	1852.6	23.99	23.30	0.69
	1880	23.80	22.68	1.11
	1907.4	23.68	22.81	0.88

BAND 4:

Mode	Frequency (MHz)	Peak Power (dBm)	Avg. Burst Power(dBm)	PAPR (dB)
RMC 12.2K	1712.6	**24.45**	**23.37**	1.08
	1740	23.94	22.69	1.25
	1752.4	24.27	22.66	1.61
HSDPA SUBTEST 1	1712.6	24.29	23.29	1.00
	1740	23.94	22.87	1.06
	1752.4	23.94	23.19	0.76
HSUPA SUBTEST 1	1712.6	23.81	23.12	0.69
	1740	24.16	22.69	1.47
	1752.4	23.73	23.15	0.57

BAND 5:

Mode	Frequency (MHz)	Peak Power (dBm)	Avg. Burst Power(dBm)	PAPR (dB)
RMC 12.2K	826.6	**24.15**	22.87	1.27
	835	23.61	23.20	0.41
	846.4	23.54	22.61	0.93
HSDPA SUBTEST 1	826.6	23.51	22.66	0.85
	835	23.83	22.70	1.13
	846.4	23.62	**23.36**	0.26
HSUPA SUBTEST 1	826.6	23.93	22.89	1.03
	835	23.64	22.81	0.83
	846.4	23.90	23.28	0.62

E-UTRA BANDS:
BAND 2:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	18607	1850.7	QPSK	1	LOW	20.62	20.99	0.37
1.4	18607	1850.7	QPSK	1	MID	20.17	21.38	1.21
1.4	18607	1850.7	QPSK	1	HIGH	20.15	21.04	0.89
1.4	18607	1850.7	QPSK	3	LOW	20.28	20.80	0.52
1.4	18607	1850.7	QPSK	3	MID	20.10	20.57	0.47
1.4	18607	1850.7	QPSK	3	HIGH	20.31	21.45	1.14
1.4	18607	1850.7	QPSK	6	LOW	20.15	21.16	1.01
1.4	18607	1850.7	Q16	1	LOW	20.98	21.03	0.05
1.4	18607	1850.7	Q16	1	MID	20.96	21.22	0.26
1.4	18607	1850.7	Q16	1	HIGH	20.96	21.09	0.13
1.4	18607	1850.7	Q16	3	LOW	20.36	21.31	0.95
1.4	18607	1850.7	Q16	3	MID	20.58	21.07	0.49
1.4	18607	1850.7	Q16	3	HIGH	20.04	21.46	1.42
1.4	18607	1850.7	Q16	6	LOW	20.87	21.41	0.54
1.4	18900	1880	QPSK	1	LOW	20.93	21.17	0.24
1.4	18900	1880	QPSK	1	MID	20.44	20.65	0.21
1.4	18900	1880	QPSK	1	HIGH	20.07	21.48	1.41
1.4	18900	1880	QPSK	3	LOW	20.73	20.74	0.01
1.4	18900	1880	QPSK	3	MID	20.92	21.32	0.4
1.4	18900	1880	QPSK	3	HIGH	20.88	21.02	0.14
1.4	18900	1880	QPSK	6	LOW	20.54	21.05	0.51
1.4	18900	1880	Q16	1	LOW	20.08	21.20	1.12
1.4	18900	1880	Q16	1	MID	20.17	20.97	0.8
1.4	18900	1880	Q16	1	HIGH	20.28	21.13	0.85
1.4	18900	1880	Q16	3	LOW	20.80	21.26	0.46
1.4	18900	1880	Q16	3	MID	20.27	21.18	0.91
1.4	18900	1880	Q16	3	HIGH	20.85	20.97	0.12
1.4	18900	1880	Q16	6	LOW	20.29	21.03	0.74
1.4	19193	1909.3	QPSK	1	LOW	20.34	20.56	0.22
1.4	19193	1909.3	QPSK	1	MID	20.74	20.94	0.2
1.4	19193	1909.3	QPSK	1	HIGH	20.31	21.46	1.15
1.4	19193	1909.3	QPSK	3	LOW	20.19	20.62	0.43
1.4	19193	1909.3	QPSK	3	MID	20.20	20.65	0.45
1.4	19193	1909.3	QPSK	3	HIGH	20.58	21.36	0.78
1.4	19193	1909.3	QPSK	6	LOW	20.62	20.75	0.13

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	19193	1909.3	Q16	1	LOW	20.11	20.53	0.42
1.4	19193	1909.3	Q16	1	MID	20.26	21.37	1.11
1.4	19193	1909.3	Q16	1	HIGH	20.39	21.25	0.86
1.4	19193	1909.3	Q16	3	LOW	20.45	20.52	0.07
1.4	19193	1909.3	Q16	3	MID	20.45	20.81	0.36
1.4	19193	1909.3	Q16	3	HIGH	20.03	20.71	0.68
1.4	19193	1909.3	Q16	6	LOW	20.37	21.15	0.78
3	18615	1851.5	QPSK	1	LOW	20.51	20.75	0.24
3	18615	1851.5	QPSK	1	MID	20.71	20.74	0.03
3	18615	1851.5	QPSK	1	HIGH	20.26	20.73	0.47
3	18615	1851.5	QPSK	8	LOW	20.25	21.35	1.1
3	18615	1851.5	QPSK	8	MID	20.14	20.51	0.37
3	18615	1851.5	QPSK	8	HIGH	20.35	21.03	0.68
3	18615	1851.5	QPSK	15	LOW	20.98	21.18	0.2
3	18615	1851.5	Q16	1	LOW	20.51	21.15	0.64
3	18615	1851.5	Q16	1	MID	20.82	21.27	0.45
3	18615	1851.5	Q16	1	HIGH	20.41	20.56	0.15
3	18615	1851.5	Q16	8	LOW	20.65	21.14	0.49
3	18615	1851.5	Q16	8	MID	20.20	20.70	0.5
3	18615	1851.5	Q16	8	HIGH	20.15	20.53	0.38
3	18615	1851.5	Q16	15	LOW	20.53	21.45	0.92
3	18900	1880	QPSK	1	LOW	20.63	20.84	0.21
3	18900	1880	QPSK	1	MID	20.40	20.83	0.43
3	18900	1880	QPSK	1	HIGH	20.64	21.15	0.51
3	18900	1880	QPSK	8	LOW	20.56	20.91	0.35
3	18900	1880	QPSK	8	MID	20.85	21.11	0.26
3	18900	1880	QPSK	8	HIGH	20.17	20.99	0.82
3	18900	1880	QPSK	15	LOW	20.09	21.44	1.35
3	18900	1880	Q16	1	LOW	20.20	21.26	1.06
3	18900	1880	Q16	1	MID	20.98	21.33	0.35
3	18900	1880	Q16	1	HIGH	20.28	21.21	0.93
3	18900	1880	Q16	8	LOW	20.89	21.46	0.57
3	18900	1880	Q16	8	MID	20.44	21.50	1.06
3	18900	1880	Q16	8	HIGH	20.76	20.91	0.15
3	18900	1880	Q16	15	LOW	20.41	20.86	0.45
3	19185	1908.5	QPSK	1	LOW	20.40	20.78	0.38
3	19185	1908.5	QPSK	1	MID	20.67	21.37	0.7

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
3	19185	1908.5	QPSK	1	HIGH	20.59	21.23	0.64
3	19185	1908.5	QPSK	8	LOW	20.20	20.89	0.69
3	19185	1908.5	QPSK	8	MID	20.38	20.60	0.22
3	19185	1908.5	QPSK	8	HIGH	20.14	20.92	0.78
3	19185	1908.5	QPSK	15	LOW	20.24	21.07	0.83
3	19185	1908.5	Q16	1	LOW	20.14	21.10	0.96
3	19185	1908.5	Q16	1	MID	20.45	20.86	0.41
3	19185	1908.5	Q16	1	HIGH	20.75	20.52	-0.23
3	19185	1908.5	Q16	8	LOW	20.90	21.26	0.36
3	19185	1908.5	Q16	8	MID	20.74	20.95	0.21
3	19185	1908.5	Q16	8	HIGH	20.13	20.85	0.72
3	19185	1908.5	Q16	15	LOW	20.50	20.62	0.12
5	18625	1852.5	QPSK	1	LOW	20.23	21.33	1.1
5	18625	1852.5	QPSK	1	MID	20.16	21.43	1.27
5	18625	1852.5	QPSK	1	HIGH	20.68	21.11	0.43
5	18625	1852.5	QPSK	12	LOW	20.57	20.92	0.35
5	18625	1852.5	QPSK	12	MID	20.37	21.13	0.76
5	18625	1852.5	QPSK	12	HIGH	20.32	21.41	1.09
5	18625	1852.5	QPSK	25	LOW	20.88	21.47	0.59
5	18625	1852.5	Q16	1	LOW	20.59	21.30	0.71
5	18625	1852.5	Q16	1	MID	20.54	20.99	0.45
5	18625	1852.5	Q16	1	HIGH	20.57	21.22	0.65
5	18625	1852.5	Q16	12	LOW	20.71	21.12	0.41
5	18625	1852.5	Q16	12	MID	20.48	20.89	0.41
5	18625	1852.5	Q16	12	HIGH	20.08	21.03	0.95
5	18625	1852.5	Q16	25	LOW	20.49	20.62	0.13
5	18900	1880	QPSK	1	LOW	20.23	21.39	1.16
5	18900	1880	QPSK	1	MID	20.20	21.45	1.25
5	18900	1880	QPSK	1	HIGH	20.26	20.91	0.65
5	18900	1880	QPSK	12	LOW	20.19	21.13	0.94
5	18900	1880	QPSK	12	MID	20.76	21.28	0.52
5	18900	1880	QPSK	12	HIGH	20.22	20.56	0.34
5	18900	1880	QPSK	25	LOW	20.96	21.47	0.51
5	18900	1880	Q16	1	LOW	20.02	21.02	1
5	18900	1880	Q16	1	MID	20.75	21.47	0.72
5	18900	1880	Q16	1	HIGH	20.91	21.18	0.27
5	18900	1880	Q16	12	LOW	20.88	21.07	0.19

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	18900	1880	Q16	12	MID	20.58	20.96	0.38
5	18900	1880	Q16	12	HIGH	20.19	20.77	0.58
5	18900	1880	Q16	25	LOW	20.87	21.38	0.51
5	19175	1907.5	QPSK	1	LOW	20.14	21.23	1.09
5	19175	1907.5	QPSK	1	MID	20.47	20.91	0.44
5	19175	1907.5	QPSK	1	HIGH	20.69	20.95	0.26
5	19175	1907.5	QPSK	12	LOW	20.72	21.38	0.66
5	19175	1907.5	QPSK	12	MID	20.51	20.63	0.12
5	19175	1907.5	QPSK	12	HIGH	20.92	21.01	0.09
5	19175	1907.5	QPSK	25	LOW	20.45	20.71	0.26
5	19175	1907.5	Q16	1	LOW	20.76	21.21	0.45
5	19175	1907.5	Q16	1	MID	20.39	20.53	0.14
5	19175	1907.5	Q16	1	HIGH	20.39	21.46	1.07
5	19175	1907.5	Q16	12	LOW	20.36	21.05	0.69
5	19175	1907.5	Q16	12	MID	20.15	21.30	1.15
5	19175	1907.5	Q16	12	HIGH	20.39	21.04	0.65
5	19175	1907.5	Q16	25	LOW	20.36	21.42	1.06
10	18650	1855	QPSK	1	LOW	20.02	20.53	0.51
10	18650	1855	QPSK	1	MID	20.85	20.93	0.08
10	18650	1855	QPSK	1	HIGH	20.33	20.55	0.22
10	18650	1855	QPSK	25	LOW	20.63	20.84	0.21
10	18650	1855	QPSK	25	MID	20.56	20.60	0.04
10	18650	1855	QPSK	25	HIGH	20.94	21.21	0.27
10	18650	1855	QPSK	50	LOW	20.79	20.89	0.1
10	18650	1855	Q16	1	LOW	20.42	20.59	0.17
10	18650	1855	Q16	1	MID	20.03	21.36	1.33
10	18650	1855	Q16	1	HIGH	20.15	20.63	0.48
10	18650	1855	Q16	25	LOW	20.65	21.14	0.49
10	18650	1855	Q16	25	MID	20.76	20.77	0.01
10	18650	1855	Q16	25	HIGH	20.90	21.11	0.21
10	18650	1855	Q16	50	LOW	20.20	21.33	1.13
10	18900	1880	QPSK	1	LOW	20.57	20.70	0.13
10	18900	1880	QPSK	1	MID	20.45	20.86	0.41
10	18900	1880	QPSK	1	HIGH	20.48	20.85	0.37
10	18900	1880	QPSK	25	LOW	20.63	21.22	0.59
10	18900	1880	QPSK	25	MID	20.32	21.37	1.05
10	18900	1880	QPSK	25	HIGH	20.85	20.91	0.06

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
10	18900	1880	QPSK	50	LOW	20.71	21.04	0.33
10	18900	1880	Q16	1	LOW	20.19	21.12	0.93
10	18900	1880	Q16	1	MID	20.55	20.74	0.19
10	18900	1880	Q16	1	HIGH	20.90	21.28	0.38
10	18900	1880	Q16	25	LOW	20.71	20.90	0.19
10	18900	1880	Q16	25	MID	20.04	21.01	0.97
10	18900	1880	Q16	25	HIGH	20.44	20.93	0.49
10	18900	1880	Q16	50	LOW	20.26	20.99	0.73
10	19150	1905	QPSK	1	LOW	20.23	21.44	1.21
10	19150	1905	QPSK	1	MID	20.04	20.93	0.89
10	19150	1905	QPSK	1	HIGH	20.27	20.80	0.53
10	19150	1905	QPSK	25	LOW	20.04	20.98	0.94
10	19150	1905	QPSK	25	MID	20.21	21.16	0.95
10	19150	1905	QPSK	25	HIGH	20.98	21.04	0.06
10	19150	1905	QPSK	50	LOW	20.53	21.26	0.73
10	19150	1905	Q16	1	LOW	20.57	21.27	0.7
10	19150	1905	Q16	1	MID	20.61	21.16	0.55
10	19150	1905	Q16	1	HIGH	20.81	21.28	0.47
10	19150	1905	Q16	25	LOW	20.60	21.14	0.54
10	19150	1905	Q16	25	MID	20.63	20.91	0.28
10	19150	1905	Q16	25	HIGH	20.19	21.39	1.2
10	19150	1905	Q16	50	LOW	20.12	21.13	1.01
15	18675	1857.5	QPSK	1	LOW	20.85	21.25	0.4
15	18675	1857.5	QPSK	1	MID	20.35	21.02	0.67
15	18675	1857.5	QPSK	1	HIGH	20.02	21.23	1.21
15	18675	1857.5	QPSK	36	LOW	20.47	21.47	1
15	18675	1857.5	QPSK	36	MID	20.33	21.24	0.91
15	18675	1857.5	QPSK	36	HIGH	20.09	20.76	0.67
15	18675	1857.5	QPSK	75	LOW	20.39	21.49	1.1
15	18675	1857.5	Q16	1	LOW	20.12	21.01	0.89
15	18675	1857.5	Q16	1	MID	20.88	21.10	0.22
15	18675	1857.5	Q16	1	HIGH	20.11	21.19	1.08
15	18675	1857.5	Q16	36	LOW	20.66	20.99	0.33
15	18675	1857.5	Q16	36	MID	20.01	21.44	1.43
15	18675	1857.5	Q16	36	HIGH	20.01	21.48	1.47
15	18675	1857.5	Q16	75	LOW	20.71	21.02	0.31
15	18900	1880	QPSK	1	LOW	20.11	21.45	1.34

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
15	18900	1880	QPSK	1	MID	20.34	20.71	0.37
15	18900	1880	QPSK	1	HIGH	20.66	21.18	0.52
15	18900	1880	QPSK	36	LOW	20.45	20.72	0.27
15	18900	1880	QPSK	36	MID	20.97	21.44	0.47
15	18900	1880	QPSK	36	HIGH	20.38	20.57	0.19
15	18900	1880	QPSK	75	LOW	20.49	21.04	0.55
15	18900	1880	Q16	1	LOW	20.36	20.55	0.19
15	18900	1880	Q16	1	MID	20.47	20.76	0.29
15	18900	1880	Q16	1	HIGH	20.43	21.13	0.7
15	18900	1880	Q16	36	LOW	20.18	20.93	0.75
15	18900	1880	Q16	36	MID	20.97	21.10	0.13
15	18900	1880	Q16	36	HIGH	20.96	21.44	0.48
15	18900	1880	Q16	75	LOW	20.22	20.52	0.3
15	19125	1902.5	QPSK	1	LOW	20.96	21.41	0.45
15	19125	1902.5	QPSK	1	MID	20.78	21.32	0.54
15	19125	1902.5	QPSK	1	HIGH	20.87	20.92	0.05
15	19125	1902.5	QPSK	36	LOW	20.70	20.90	0.2
15	19125	1902.5	QPSK	36	MID	20.80	21.05	0.25
15	19125	1902.5	QPSK	36	HIGH	20.85	21.32	0.47
15	19125	1902.5	QPSK	75	LOW	20.65	21.12	0.47
15	19125	1902.5	Q16	1	LOW	20.45	21.18	0.73
15	19125	1902.5	Q16	1	MID	20.44	21.24	0.8
15	19125	1902.5	Q16	1	HIGH	20.76	21.00	0.24
15	19125	1902.5	Q16	36	LOW	20.26	20.69	0.43
15	19125	1902.5	Q16	36	MID	20.80	21.47	0.67
15	19125	1902.5	Q16	36	HIGH	20.40	21.48	1.08
15	19125	1902.5	Q16	75	LOW	20.54	21.20	0.66
20	18700	1860	QPSK	1	LOW	20.53	20.79	0.26
20	18700	1860	QPSK	1	MID	20.16	20.86	0.7
20	18700	1860	QPSK	1	HIGH	20.43	21.13	0.7
20	18700	1860	QPSK	50	LOW	20.18	20.93	0.75
20	18700	1860	QPSK	50	MID	20.97	21.10	0.13
20	18700	1860	QPSK	50	HIGH	20.96	21.44	0.48
20	18700	1860	QPSK	100	LOW	20.22	20.52	0.3
20	18700	1860	Q16	1	LOW	20.96	21.41	0.45
20	18700	1860	Q16	1	MID	20.78	21.32	0.54
20	18700	1860	Q16	1	HIGH	20.87	20.92	0.05

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
20	18700	1860	Q16	50	LOW	20.70	20.90	0.2
20	18700	1860	Q16	50	MID	20.80	21.05	0.25
20	18700	1860	Q16	50	HIGH	20.85	21.32	0.47
20	18700	1860	Q16	100	LOW	20.65	21.12	0.47
20	18900	1880	QPSK	1	LOW	20.45	21.18	0.73
20	18900	1880	QPSK	1	MID	20.44	21.24	0.8
20	18900	1880	QPSK	1	HIGH	20.76	21.00	0.24
20	18900	1880	QPSK	50	LOW	20.26	20.69	0.43
20	18900	1880	QPSK	50	MID	20.80	21.47	0.67
20	18900	1880	QPSK	50	HIGH	20.40	21.48	1.08
20	18900	1880	QPSK	100	LOW	20.54	21.20	0.66
20	18900	1880	Q16	1	LOW	20.53	20.79	0.26
20	18900	1880	Q16	1	MID	20.16	20.86	0.7
20	18900	1880	Q16	1	HIGH	20.94	22.48	1.54
20	18900	1880	Q16	50	LOW	21.50	22.13	0.63
20	18900	1880	Q16	50	MID	21.44	21.66	0.22
20	18900	1880	Q16	50	HIGH	20.69	21.97	1.28
20	18900	1880	Q16	100	LOW	20.89	22.45	1.56
20	19100	1900	QPSK	1	LOW	21.15	22.29	1.14
20	19100	1900	QPSK	1	MID	20.91	22.20	1.29
20	19100	1900	QPSK	1	HIGH	20.58	22.18	1.6
20	19100	1900	QPSK	50	LOW	21.48	22.03	0.55
20	19100	1900	QPSK	50	MID	21.35	22.16	0.81
20	19100	1900	QPSK	50	HIGH	20.79	21.88	1.09
20	19100	1900	QPSK	100	LOW	20.92	22.33	1.41
20	19100	1900	Q16	1	LOW	21.09	21.93	0.84
20	19100	1900	Q16	1	MID	20.55	21.52	0.97
20	19100	1900	Q16	1	HIGH	20.56	21.93	1.37
20	19100	1900	Q16	50	LOW	21.48	22.04	0.56
20	19100	1900	Q16	50	MID	21.01	22.05	1.04
20	19100	1900	Q16	50	HIGH	21.45	21.73	0.28
20	19100	1900	Q16	100	LOW	20.77	22.23	1.46

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	19957	1710.7	QPSK	1	LOW	21.05	22.01	0.96
1.4	19957	1710.7	QPSK	1	MID	21.13	21.64	0.51
1.4	19957	1710.7	QPSK	1	HIGH	20.85	22.41	1.56
1.4	19957	1710.7	QPSK	3	LOW	21.13	21.73	0.6
1.4	19957	1710.7	QPSK	3	MID	21.25	21.80	0.55
1.4	19957	1710.7	QPSK	3	HIGH	21.00	22.17	1.17
1.4	19957	1710.7	QPSK	6	LOW	20.95	22.01	1.06
1.4	19957	1710.7	Q16	1	LOW	20.68	22.03	1.35
1.4	19957	1710.7	Q16	1	MID	20.67	22.18	1.51
1.4	19957	1710.7	Q16	1	HIGH	21.18	22.43	1.25
1.4	19957	1710.7	Q16	3	LOW	20.76	22.48	1.72
1.4	19957	1710.7	Q16	3	MID	20.92	21.86	0.94
1.4	19957	1710.7	Q16	3	HIGH	21.09	22.00	0.91
1.4	19957	1710.7	Q16	6	LOW	20.50	21.77	1.27
1.4	20393	1754.3	QPSK	1	LOW	21.45	22.27	0.82
1.4	20393	1754.3	QPSK	1	MID	20.55	22.33	1.78
1.4	20393	1754.3	QPSK	1	HIGH	20.64	22.13	1.49
1.4	20393	1754.3	QPSK	3	LOW	20.59	22.04	1.45
1.4	20393	1754.3	QPSK	3	MID	20.95	21.98	1.03
1.4	20393	1754.3	QPSK	3	HIGH	21.10	22.21	1.11
1.4	20393	1754.3	QPSK	6	LOW	21.25	21.80	0.55
1.4	20393	1754.3	Q16	1	LOW	21.25	21.97	0.72
1.4	20393	1754.3	Q16	1	MID	20.74	21.69	0.95
1.4	20393	1754.3	Q16	1	HIGH	21.43	21.89	0.46
1.4	20393	1754.3	Q16	3	LOW	21.45	22.23	0.78
1.4	20393	1754.3	Q16	3	MID	21.07	21.75	0.68
1.4	20393	1754.3	Q16	3	HIGH	21.03	22.04	1.01
1.4	20393	1754.3	Q16	6	LOW	20.79	21.54	0.75
1.4	20175	1732.5	QPSK	1	LOW	21.06	21.85	0.79
1.4	20175	1732.5	QPSK	1	MID	20.64	22.32	1.68
1.4	20175	1732.5	QPSK	1	HIGH	21.22	21.60	0.38
1.4	20175	1732.5	QPSK	3	LOW	21.42	21.72	0.3
1.4	20175	1732.5	QPSK	3	MID	21.22	22.18	0.96
1.4	20175	1732.5	QPSK	3	HIGH	21.09	21.51	0.42
1.4	20175	1732.5	QPSK	6	LOW	20.74	21.64	0.9
1.4	20175	1732.5	Q16	1	LOW	20.66	22.41	1.75

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	20175	1732.5	Q16	1	MID	20.69	22.07	1.38
1.4	20175	1732.5	Q16	1	HIGH	20.66	22.28	1.62
1.4	20175	1732.5	Q16	3	LOW	21.11	22.06	0.95
1.4	20175	1732.5	Q16	3	MID	21.29	22.41	1.12
1.4	20175	1732.5	Q16	3	HIGH	21.14	21.65	0.51
1.4	20175	1732.5	Q16	6	LOW	21.39	22.13	0.74
3	19965	1711.5	QPSK	1	LOW	20.96	22.08	1.12
3	19965	1711.5	QPSK	1	MID	21.42	21.89	0.47
3	19965	1711.5	QPSK	1	HIGH	20.92	22.37	1.45
3	19965	1711.5	QPSK	8	LOW	20.69	22.20	1.51
3	19965	1711.5	QPSK	8	MID	21.05	21.62	0.57
3	19965	1711.5	QPSK	8	HIGH	21.15	21.61	0.46
3	19965	1711.5	QPSK	15	LOW	20.81	21.90	1.09
3	19965	1711.5	Q16	1	LOW	21.32	22.23	0.91
3	19965	1711.5	Q16	1	MID	20.91	22.36	1.45
3	19965	1711.5	Q16	1	HIGH	21.15	22.47	1.32
3	19965	1711.5	Q16	8	LOW	20.96	21.77	0.81
3	19965	1711.5	Q16	8	MID	21.29	21.79	0.5
3	19965	1711.5	Q16	8	HIGH	20.85	22.19	1.34
3	19965	1711.5	Q16	15	LOW	21.15	22.23	1.08
3	20385	1753.5	QPSK	1	LOW	21.33	22.46	1.13
3	20385	1753.5	QPSK	1	MID	20.65	22.46	1.81
3	20385	1753.5	QPSK	1	HIGH	20.61	22.13	1.52
3	20385	1753.5	QPSK	8	LOW	20.61	21.80	1.19
3	20385	1753.5	QPSK	8	MID	21.10	21.80	0.7
3	20385	1753.5	QPSK	8	HIGH	20.94	22.25	1.31
3	20385	1753.5	QPSK	15	LOW	20.83	21.83	1
3	20385	1753.5	Q16	1	LOW	20.89	22.48	1.59
3	20385	1753.5	Q16	1	MID	20.71	22.31	1.6
3	20385	1753.5	Q16	1	HIGH	20.96	22.10	1.14
3	20385	1753.5	Q16	8	LOW	20.77	21.64	0.87
3	20385	1753.5	Q16	8	MID	20.84	22.07	1.23
3	20385	1753.5	Q16	8	HIGH	20.79	22.17	1.38
3	20385	1753.5	Q16	15	LOW	20.97	21.94	0.97
3	20175	1732.5	QPSK	1	LOW	20.54	21.57	1.03
3	20175	1732.5	QPSK	1	MID	21.45	21.94	0.49
3	20175	1732.5	QPSK	1	HIGH	20.99	22.04	1.05

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
3	20175	1732.5	QPSK	8	LOW	20.75	21.74	0.99
3	20175	1732.5	QPSK	8	MID	20.82	21.72	0.9
3	20175	1732.5	QPSK	8	HIGH	21.09	21.56	0.47
3	20175	1732.5	QPSK	15	LOW	20.61	21.86	1.25
3	20175	1732.5	Q16	1	LOW	21.18	21.56	0.38
3	20175	1732.5	Q16	1	MID	20.55	21.81	1.26
3	20175	1732.5	Q16	1	HIGH	21.12	22.02	0.9
3	20175	1732.5	Q16	8	LOW	21.09	21.92	0.83
3	20175	1732.5	Q16	8	MID	21.23	22.02	0.79
3	20175	1732.5	Q16	8	HIGH	20.54	22.17	1.63
3	20175	1732.5	Q16	15	LOW	20.69	22.35	1.66
5	19975	1712.5	QPSK	1	LOW	20.72	21.57	0.85
5	19975	1712.5	QPSK	1	MID	21.24	22.47	1.23
5	19975	1712.5	QPSK	1	HIGH	20.72	21.98	1.26
5	19975	1712.5	QPSK	12	LOW	20.56	21.98	1.42
5	19975	1712.5	QPSK	12	MID	21.40	21.97	0.57
5	19975	1712.5	QPSK	12	HIGH	21.00	22.07	1.07
5	19975	1712.5	QPSK	25	LOW	20.65	21.59	0.94
5	19975	1712.5	Q16	1	LOW	20.82	21.56	0.74
5	19975	1712.5	Q16	1	MID	20.54	22.33	1.79
5	19975	1712.5	Q16	1	HIGH	20.79	21.99	1.2
5	19975	1712.5	Q16	12	LOW	20.51	22.33	1.82
5	19975	1712.5	Q16	12	MID	20.83	21.63	0.8
5	19975	1712.5	Q16	12	HIGH	21.03	21.81	0.78
5	19975	1712.5	Q16	25	LOW	20.58	21.81	1.23
5	20375	1752.5	QPSK	1	LOW	21.23	21.65	0.42
5	20375	1752.5	QPSK	1	MID	20.69	21.64	0.95
5	20375	1752.5	QPSK	1	HIGH	20.80	22.16	1.36
5	20375	1752.5	QPSK	12	LOW	21.45	22.08	0.63
5	20375	1752.5	QPSK	12	MID	20.91	21.81	0.9
5	20375	1752.5	QPSK	12	HIGH	20.79	21.80	1.01
5	20375	1752.5	QPSK	25	LOW	21.12	21.61	0.49
5	20375	1752.5	Q16	1	LOW	20.61	21.78	1.17
5	20375	1752.5	Q16	1	MID	21.17	21.69	0.52
5	20375	1752.5	Q16	1	HIGH	20.99	22.35	1.36
5	20375	1752.5	Q16	12	LOW	21.01	21.57	0.56
5	20375	1752.5	Q16	12	MID	20.77	21.50	0.73

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	20375	1752.5	Q16	12	HIGH	20.67	22.09	1.42
5	20375	1752.5	Q16	25	LOW	20.61	21.92	1.31
5	20175	1732.5	QPSK	1	LOW	20.82	22.34	1.52
5	20175	1732.5	QPSK	1	MID	20.63	22.44	1.81
5	20175	1732.5	QPSK	1	HIGH	21.01	22.00	0.99
5	20175	1732.5	QPSK	12	LOW	21.48	22.01	0.53
5	20175	1732.5	QPSK	12	MID	21.16	21.97	0.81
5	20175	1732.5	QPSK	12	HIGH	21.39	21.96	0.57
5	20175	1732.5	QPSK	25	LOW	20.55	22.10	1.55
5	20175	1732.5	Q16	1	LOW	21.47	22.39	0.92
5	20175	1732.5	Q16	1	MID	21.28	22.24	0.96
5	20175	1732.5	Q16	1	HIGH	21.49	21.77	0.28
5	20175	1732.5	Q16	12	LOW	21.35	21.96	0.61
5	20175	1732.5	Q16	12	MID	20.70	21.57	0.87
5	20175	1732.5	Q16	12	HIGH	21.18	21.65	0.47
5	20175	1732.5	Q16	25	LOW	21.31	22.27	0.96
10	20000	1715	QPSK	1	LOW	21.45	22.32	0.87
10	20000	1715	QPSK	1	MID	20.78	21.83	1.05
10	20000	1715	QPSK	1	HIGH	20.86	22.15	1.29
10	20000	1715	QPSK	25	LOW	20.55	21.63	1.08
10	20000	1715	QPSK	25	MID	21.17	22.48	1.31
10	20000	1715	QPSK	25	HIGH	20.80	21.79	0.99
10	20000	1715	QPSK	50	LOW	20.63	21.52	0.89
10	20000	1715	Q16	1	LOW	20.95	21.61	0.66
10	20000	1715	Q16	1	MID	21.43	22.46	1.03
10	20000	1715	Q16	1	HIGH	20.54	22.38	1.84
10	20000	1715	Q16	25	LOW	21.27	22.05	0.78
10	20000	1715	Q16	25	MID	20.88	22.39	1.51
10	20000	1715	Q16	25	HIGH	20.83	21.53	0.7
10	20000	1715	Q16	50	LOW	20.69	21.81	1.12
10	20350	1750	QPSK	1	LOW	20.70	21.76	1.06
10	20350	1750	QPSK	1	MID	21.22	21.88	0.66
10	20350	1750	QPSK	1	HIGH	21.27	22.24	0.97
10	20350	1750	QPSK	25	LOW	20.93	22.07	1.14
10	20350	1750	QPSK	25	MID	20.62	22.42	1.8
10	20350	1750	QPSK	25	HIGH	21.43	21.59	0.16
10	20350	1750	QPSK	50	LOW	20.62	22.13	1.51

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
10	20350	1750	Q16	1	LOW	21.50	21.57	0.07
10	20350	1750	Q16	1	MID	20.87	22.25	1.38
10	20350	1750	Q16	1	HIGH	21.02	22.39	1.37
10	20350	1750	Q16	25	LOW	21.31	22.47	1.16
10	20350	1750	Q16	25	MID	20.60	21.72	1.12
10	20350	1750	Q16	25	HIGH	20.88	22.49	1.61
10	20350	1750	Q16	50	LOW	20.52	21.89	1.37
10	20175	1732.5	QPSK	1	LOW	20.94	22.11	1.17
10	20175	1732.5	QPSK	1	MID	20.96	22.40	1.44
10	20175	1732.5	QPSK	1	HIGH	21.24	22.03	0.79
10	20175	1732.5	QPSK	25	LOW	20.66	21.60	0.94
10	20175	1732.5	QPSK	25	MID	21.11	21.70	0.59
10	20175	1732.5	QPSK	25	HIGH	20.91	22.00	1.09
10	20175	1732.5	QPSK	50	LOW	21.08	21.55	0.47
10	20175	1732.5	Q16	1	LOW	20.66	21.97	1.31
10	20175	1732.5	Q16	1	MID	21.30	21.59	0.29
10	20175	1732.5	Q16	1	HIGH	21.31	21.71	0.4
10	20175	1732.5	Q16	25	LOW	20.63	21.99	1.36
10	20175	1732.5	Q16	25	MID	21.17	21.64	0.47
10	20175	1732.5	Q16	25	HIGH	21.16	22.07	0.91
10	20175	1732.5	Q16	50	LOW	21.34	22.19	0.85
15	20025	1717.5	QPSK	1	LOW	20.67	21.65	0.98
15	20025	1717.5	QPSK	1	MID	20.89	22.36	1.47
15	20025	1717.5	QPSK	1	HIGH	21.18	21.51	0.33
15	20025	1717.5	QPSK	36	LOW	21.22	22.26	1.04
15	20025	1717.5	QPSK	36	MID	21.24	21.76	0.52
15	20025	1717.5	QPSK	36	HIGH	21.03	21.75	0.72
15	20025	1717.5	QPSK	75	LOW	20.75	21.70	0.95
15	20025	1717.5	Q16	1	LOW	21.22	21.51	0.29
15	20025	1717.5	Q16	1	MID	20.97	22.12	1.15
15	20025	1717.5	Q16	1	HIGH	21.30	22.31	1.01
15	20025	1717.5	Q16	36	LOW	21.07	21.84	0.77
15	20025	1717.5	Q16	36	MID	21.09	21.91	0.82
15	20025	1717.5	Q16	36	HIGH	20.96	21.66	0.7
15	20025	1717.5	Q16	75	LOW	20.72	21.55	0.83
15	20325	1747.5	QPSK	1	LOW	21.07	22.31	1.24
15	20325	1747.5	QPSK	1	MID	20.79	21.57	0.78

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
15	20325	1747.5	QPSK	1	HIGH	21.25	21.90	0.65
15	20325	1747.5	QPSK	36	LOW	21.24	22.48	1.24
15	20325	1747.5	QPSK	36	MID	21.41	21.56	0.15
15	20325	1747.5	QPSK	36	HIGH	20.57	22.50	1.93
15	20325	1747.5	QPSK	75	LOW	21.31	22.24	0.93
15	20325	1747.5	Q16	1	LOW	21.24	21.51	0.27
15	20325	1747.5	Q16	1	MID	21.34	21.86	0.52
15	20325	1747.5	Q16	1	HIGH	21.02	22.40	1.38
15	20325	1747.5	Q16	36	LOW	20.84	21.90	1.06
15	20325	1747.5	Q16	36	MID	21.34	21.78	0.44
15	20325	1747.5	Q16	36	HIGH	20.80	21.78	0.98
15	20325	1747.5	Q16	75	LOW	21.14	21.69	0.55
15	20175	1732.5	QPSK	1	LOW	20.87	21.60	0.73
15	20175	1732.5	QPSK	1	MID	20.82	22.07	1.25
15	20175	1732.5	QPSK	1	HIGH	20.60	22.01	1.41
15	20175	1732.5	QPSK	36	LOW	21.28	22.07	0.79
15	20175	1732.5	QPSK	36	MID	20.86	21.78	0.92
15	20175	1732.5	QPSK	36	HIGH	20.60	22.46	1.86
15	20175	1732.5	QPSK	75	LOW	20.97	21.54	0.57
15	20175	1732.5	Q16	1	LOW	20.56	22.27	1.71
15	20175	1732.5	Q16	1	MID	20.80	21.60	0.8
15	20175	1732.5	Q16	1	HIGH	20.76	21.72	0.96
15	20175	1732.5	Q16	36	LOW	20.85	22.25	1.4
15	20175	1732.5	Q16	36	MID	21.31	21.90	0.59
15	20175	1732.5	Q16	36	HIGH	21.39	21.86	0.47
15	20175	1732.5	Q16	75	LOW	21.24	21.62	0.38
20	20050	1720	QPSK	1	LOW	20.85	21.97	1.12
20	20050	1720	QPSK	1	MID	21.14	22.33	1.19
20	20050	1720	QPSK	1	HIGH	20.82	21.68	0.86
20	20050	1720	QPSK	50	LOW	20.81	21.60	0.79
20	20050	1720	QPSK	50	MID	20.73	21.80	1.07
20	20050	1720	QPSK	50	HIGH	20.89	22.07	1.18
20	20050	1720	QPSK	100	LOW	20.82	22.30	1.48
20	20050	1720	Q16	1	LOW	21.11	21.96	0.85
20	20050	1720	Q16	1	MID	21.20	22.39	1.19
20	20050	1720	Q16	1	HIGH	21.01	21.69	0.68
20	20050	1720	Q16	50	LOW	21.40	22.47	1.07

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
20	20050	1720	Q16	50	MID	20.92	22.41	0.96
20	20050	1720	Q16	50	HIGH	20.77	22.24	0.51
20	20050	1720	Q16	100	LOW	20.56	22.00	1.56
20	20300	1745	QPSK	1	LOW	21.26	22.49	0.6
20	20300	1745	QPSK	1	MID	21.18	21.74	0.55
20	20300	1745	QPSK	1	HIGH	20.60	21.99	1.17
20	20300	1745	QPSK	50	LOW	21.24	21.68	1.06
20	20300	1745	QPSK	50	MID	21.43	22.03	1.35
20	20300	1745	QPSK	50	HIGH	21.04	21.80	1.51
20	20300	1745	QPSK	100	LOW	21.21	21.62	1.25
20	20300	1745	Q16	1	LOW	20.75	22.41	1.72
20	20300	1745	Q16	1	MID	20.76	21.63	0.94
20	20300	1745	Q16	1	HIGH	20.94	22.23	0.91
20	20300	1745	Q16	50	LOW	20.73	22.02	1.27
20	20300	1745	Q16	50	MID	21.06	21.63	0.82
20	20300	1745	Q16	50	HIGH	20.90	22.22	1.78
20	20300	1745	Q16	100	LOW	21.00	21.66	1.49
20	20175	1732.5	QPSK	1	LOW	21.20	21.82	1.45
20	20175	1732.5	QPSK	1	MID	20.86	21.88	1.03
20	20175	1732.5	QPSK	1	HIGH	21.28	22.48	1.11
20	20175	1732.5	QPSK	50	LOW	20.73	22.36	0.55
20	20175	1732.5	QPSK	50	MID	20.55	21.97	0.72
20	20175	1732.5	QPSK	50	HIGH	21.29	22.16	0.95
20	20175	1732.5	QPSK	100	LOW	20.64	21.71	0.46
20	20175	1732.5	Q16	1	LOW	21.34	22.04	0.78
20	20175	1732.5	Q16	1	MID	21.39	22.27	0.68
20	20175	1732.5	Q16	1	HIGH	21.31	21.88	1.01
20	20175	1732.5	Q16	50	LOW	21.04	22.22	0.75
20	20175	1732.5	Q16	50	MID	20.68	21.73	0.79
20	20175	1732.5	Q16	50	HIGH	20.87	21.95	1.68
20	20175	1732.5	Q16	100	LOW	20.77	22.46	0.38

BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	20775	2502.5	QPSK	1	LOW	21.92	22.98	1.06
5	20775	2502.5	QPSK	1	MID	22.14	23.16	1.02
5	20775	2502.5	QPSK	1	HIGH	22.45	23.25	0.8
5	20775	2502.5	QPSK	12	LOW	21.89	23.41	1.52
5	20775	2502.5	QPSK	12	MID	21.57	22.94	1.37
5	20775	2502.5	QPSK	12	HIGH	21.62	22.73	1.11
5	20775	2502.5	QPSK	25	LOW	22.29	22.97	0.68
5	20775	2502.5	Q16	1	LOW	21.73	22.79	1.06
5	20775	2502.5	Q16	1	MID	22.13	22.93	0.8
5	20775	2502.5	Q16	1	HIGH	21.58	23.44	1.86
5	20775	2502.5	Q16	12	LOW	22.42	23.01	0.59
5	20775	2502.5	Q16	12	MID	21.80	22.54	0.74
5	20775	2502.5	Q16	12	HIGH	21.69	23.49	1.8
5	20775	2502.5	Q16	25	LOW	22.10	23.24	1.14
5	21425	2567.5	QPSK	1	LOW	21.54	23.36	1.82
5	21425	2567.5	QPSK	1	MID	21.57	22.76	1.19
5	21425	2567.5	QPSK	1	HIGH	22.38	23.42	1.04
5	21425	2567.5	QPSK	12	LOW	21.82	22.91	1.09
5	21425	2567.5	QPSK	12	MID	22.28	22.87	0.59
5	21425	2567.5	QPSK	12	HIGH	22.10	22.52	0.42
5	21425	2567.5	QPSK	25	LOW	22.23	23.14	0.91
5	21425	2567.5	Q16	1	LOW	22.04	23.21	1.17
5	21425	2567.5	Q16	1	MID	22.46	23.34	0.88
5	21425	2567.5	Q16	1	HIGH	21.59	22.93	1.34
5	21425	2567.5	Q16	12	LOW	21.87	23.05	1.18
5	21425	2567.5	Q16	12	MID	21.61	23.07	1.46
5	21425	2567.5	Q16	12	HIGH	21.91	23.22	1.31
5	21425	2567.5	Q16	25	LOW	21.92	23.43	1.51
5	21100	2535	QPSK	1	LOW	21.62	23.43	1.81
5	21100	2535	QPSK	1	MID	21.88	22.79	0.91
5	21100	2535	QPSK	1	HIGH	22.19	22.68	0.49
5	21100	2535	QPSK	12	LOW	22.25	22.72	0.47
5	21100	2535	QPSK	12	MID	21.66	23.20	1.54
5	21100	2535	QPSK	12	HIGH	22.46	22.79	0.33
5	21100	2535	QPSK	25	LOW	21.65	23.45	1.8
5	21100	2535	QPSK	1	LOW	21.62	23.43	1.81
5	21100	2535	QPSK	1	MID	21.52	23.15	1.63

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	21100	2535	QPSK	1	HIGH	21.56	23.35	1.79
5	21100	2535	QPSK	12	LOW	22.01	22.66	0.65
5	21100	2535	QPSK	12	MID	22.11	22.54	0.43
5	21100	2535	QPSK	12	HIGH	22.44	23.27	0.83
5	21100	2535	QPSK	25	LOW	21.62	23.03	1.41
10	20800	2505	QPSK	1	LOW	22.46	22.80	0.34
10	20800	2505	QPSK	1	MID	22.02	22.94	0.92
10	20800	2505	QPSK	1	HIGH	21.56	22.64	1.08
10	20800	2505	QPSK	25	LOW	22.04	23.21	1.17
10	20800	2505	QPSK	25	MID	21.87	22.57	0.7
10	20800	2505	QPSK	25	HIGH	21.58	23.44	1.86
10	20800	2505	QPSK	50	LOW	22.25	23.34	1.09
10	20800	2505	Q16	1	LOW	21.83	22.54	0.71
10	20800	2505	Q16	1	MID	21.87	22.92	1.05
10	20800	2505	Q16	1	HIGH	21.97	23.38	1.41
10	20800	2505	Q16	25	LOW	22.33	22.56	0.23
10	20800	2505	Q16	25	MID	21.96	22.81	0.85
10	20800	2505	Q16	25	HIGH	21.91	22.54	0.63
10	20800	2505	Q16	50	LOW	22.37	22.60	0.23
10	21400	2565	QPSK	1	LOW	21.57	23.33	1.76
10	21400	2565	QPSK	1	MID	22.21	22.67	0.46
10	21400	2565	QPSK	1	HIGH	21.89	23.21	1.32
10	21400	2565	QPSK	25	LOW	22.00	23.38	1.38
10	21400	2565	QPSK	25	MID	21.99	22.76	0.77
10	21400	2565	QPSK	25	HIGH	22.11	22.62	0.51
10	21400	2565	QPSK	50	LOW	22.03	23.13	1.1
10	21400	2565	QPSK	1	LOW	21.88	22.53	0.65
10	21400	2565	QPSK	1	MID	22.22	23.48	1.26
10	21400	2565	QPSK	1	HIGH	21.90	23.41	1.51
10	21400	2565	Q16	25	LOW	22.45	23.19	0.74
10	21400	2565	Q16	25	MID	21.77	23.14	1.37
10	21400	2565	Q16	25	HIGH	21.77	23.09	1.32
10	21400	2565	Q16	50	LOW	21.51	23.42	1.91
10	21100	2535	QPSK	1	LOW	21.88	22.60	0.72
10	21100	2535	QPSK	1	MID	22.36	22.99	0.63
10	21100	2535	QPSK	1	HIGH	22.18	22.99	0.81
10	21100	2535	QPSK	25	LOW	21.91	22.68	0.77
10	21100	2535	QPSK	25	MID	22.09	22.61	0.52

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
10	21100	2535	QPSK	25	HIGH	21.95	23.30	1.35
10	21100	2535	QPSK	50	LOW	21.74	23.22	1.48
10	21100	2535	QPSK	1	LOW	21.54	22.61	1.07
10	21100	2535	QPSK	1	MID	21.87	23.08	1.21
10	21100	2535	QPSK	1	HIGH	21.70	22.67	0.97
10	21100	2535	Q16	25	LOW	21.74	22.62	0.88
10	21100	2535	Q16	25	MID	21.61	23.49	1.88
10	21100	2535	Q16	25	HIGH	22.05	23.39	1.34
10	21100	2535	Q16	50	LOW	22.02	23.31	1.29
15	20825	2507.5	QPSK	1	LOW	22.03	22.51	0.48
15	20825	2507.5	QPSK	1	MID	21.65	23.38	1.73
15	20825	2507.5	QPSK	1	HIGH	22.19	22.54	0.35
15	20825	2507.5	QPSK	36	LOW	21.94	23.04	1.1
15	20825	2507.5	QPSK	36	MID	22.07	22.50	0.43
15	20825	2507.5	QPSK	36	HIGH	22.38	23.39	1.01
15	20825	2507.5	QPSK	75	LOW	21.65	22.99	1.34
15	20825	2507.5	Q16	1	LOW	21.85	22.67	0.82
15	20825	2507.5	Q16	1	MID	21.58	23.50	1.92
15	20825	2507.5	Q16	1	HIGH	22.38	23.05	0.67
15	20825	2507.5	Q16	36	LOW	22.43	22.58	0.15
15	20825	2507.5	Q16	36	MID	21.83	22.95	1.12
15	20825	2507.5	Q16	36	HIGH	21.98	23.36	1.38
15	20825	2507.5	Q16	75	LOW	22.41	22.67	0.26
15	21375	2562.5	QPSK	1	LOW	22.19	23.25	1.06
15	21375	2562.5	QPSK	1	MID	21.84	23.36	1.52
15	21375	2562.5	QPSK	1	HIGH	22.25	22.59	0.34
15	21375	2562.5	QPSK	36	LOW	21.78	22.53	0.75
15	21375	2562.5	QPSK	36	MID	22.12	22.82	0.7
15	21375	2562.5	QPSK	36	HIGH	21.72	23.45	1.73
15	21375	2562.5	QPSK	75	LOW	22.48	23.33	0.85
15	21375	2562.5	Q16	1	LOW	21.53	22.58	1.05
15	21375	2562.5	Q16	1	MID	21.68	23.33	1.65
15	21375	2562.5	Q16	1	HIGH	22.36	22.64	0.28
15	21375	2562.5	Q16	36	LOW	21.65	22.97	1.32
15	21375	2562.5	Q16	36	MID	21.93	22.87	0.94
15	21375	2562.5	Q16	36	HIGH	22.08	22.65	0.57
15	21375	2562.5	Q16	75	LOW	22.29	23.09	0.8
15	21100	2535	QPSK	1	LOW	22.14	22.69	0.55

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
15	21100	2535	QPSK	1	MID	22.35	22.76	0.41
15	21100	2535	QPSK	1	HIGH	22.41	22.59	0.18
15	21100	2535	QPSK	36	LOW	21.75	23.13	1.38
15	21100	2535	QPSK	36	MID	21.95	23.25	1.3
15	21100	2535	QPSK	36	HIGH	21.87	22.66	0.79
15	21100	2535	QPSK	75	LOW	21.67	23.07	1.4
15	21100	2535	Q16	1	LOW	21.70	23.22	1.52
15	21100	2535	Q16	1	MID	22.26	22.94	0.68
15	21100	2535	Q16	1	HIGH	22.01	22.87	0.86
15	21100	2535	Q16	36	LOW	21.99	23.50	1.51
15	21100	2535	Q16	36	MID	21.75	22.53	0.78
15	21100	2535	Q16	36	HIGH	22.37	22.99	0.62
15	21100	2535	Q16	75	LOW	21.51	23.31	1.8
20	20850	2510	QPSK	1	LOW	21.53	23.14	1.61
20	20850	2510	QPSK	1	MID	21.77	22.75	0.98
20	20850	2510	QPSK	1	HIGH	22.48	22.94	0.46
20	20850	2510	QPSK	50	LOW	21.91	22.54	0.63
20	20850	2510	QPSK	50	MID	21.51	22.67	1.16
20	20850	2510	QPSK	50	HIGH	21.97	22.83	0.86
20	20850	2510	QPSK	100	LOW	22.45	23.21	0.76
20	20850	2510	Q16	1	LOW	21.57	22.73	1.16
20	20850	2510	Q16	1	MID	22.44	23.15	0.71
20	20850	2510	Q16	1	HIGH	22.26	23.48	1.22
20	20850	2510	Q16	50	LOW	22.07	23.10	1.03
20	20850	2510	Q16	50	MID	22.21	22.53	0.32
20	20850	2510	Q16	50	HIGH	22.22	23.27	1.05
20	20850	2510	Q16	100	LOW	22.20	23.32	1.12
20	21100	2535	QPSK	1	LOW	21.87	22.51	0.64
20	21100	2535	QPSK	1	MID	22.36	23.36	1
20	21100	2535	QPSK	1	HIGH	22.11	23.39	1.28
20	21100	2535	QPSK	50	LOW	22.21	23.19	0.98
20	21100	2535	QPSK	50	MID	21.50	22.60	1.1
20	21100	2535	QPSK	50	HIGH	22.42	23.07	0.65
20	21100	2535	QPSK	100	LOW	22.44	22.78	0.34
20	21100	2535	Q16	1	LOW	21.94	22.75	0.81
20	21100	2535	Q16	1	MID	22.05	22.54	0.49
20	21100	2535	Q16	1	HIGH	21.68	23.46	1.78
20	21100	2535	Q16	50	LOW	21.80	22.66	0.86

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
20	21100	2535	Q16	50	MID	22.02	22.64	0.62
20	21100	2535	Q16	50	HIGH	22.00	23.04	1.04
20	21100	2535	Q16	100	LOW	22.24	23.04	0.8
20	21350	2560	QPSK	1	LOW	21.71	23.13	1.42
20	21350	2560	QPSK	1	MID	21.77	23.47	1.7
20	21350	2560	QPSK	1	HIGH	21.97	23.43	1.46
20	21350	2560	QPSK	50	LOW	22.50	23.35	0.85
20	21350	2560	QPSK	50	MID	21.54	22.57	1.03
20	21350	2560	QPSK	50	HIGH	22.10	23.03	0.93
20	21350	2560	QPSK	100	LOW	21.81	22.64	0.83
20	21350	2560	Q16	1	LOW	21.52	22.83	1.31
20	21350	2560	Q16	1	MID	22.22	22.54	0.32
20	21350	2560	Q16	1	HIGH	21.72	23.41	1.69
20	21350	2560	Q16	50	LOW	21.71	23.37	1.66
20	21350	2560	Q16	50	MID	21.63	22.51	0.88
20	21350	2560	Q16	50	HIGH	22.29	22.77	0.48
20	21350	2560	Q16	100	LOW	22.25	23.08	0.83

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6 SPURIOUS EMISSION (Conducted and Radiated)

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

（A）Radiated Emission Test-Up Frequency 30MHz~1GHz
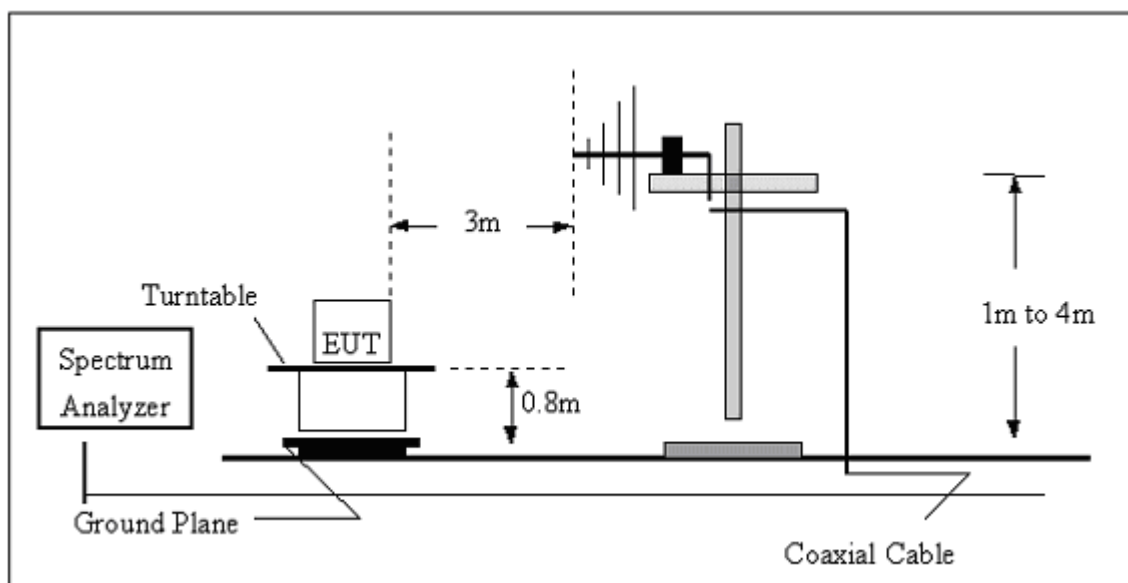
（B）Radiated Emission Test-Up Frequency Above 1GHz

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（C） Conducted Emission Test-Up

```
┌──────────┐          ┌──────────────┐          ┌──────────┐
│   EUT    │──────────│    Power     │──────────│   Base   │
│          │          │   Splitter   │          │ Station  │
└──────────┘          └──────┬───────┘          └──────────┘
                             │
                      ┌──────┴───────┐
                      │  Attenuator  │
                      └──────┬───────┘
                             │
                      ┌──────┴───────┐
                      │   Analyzer   │
                      └──────────────┘
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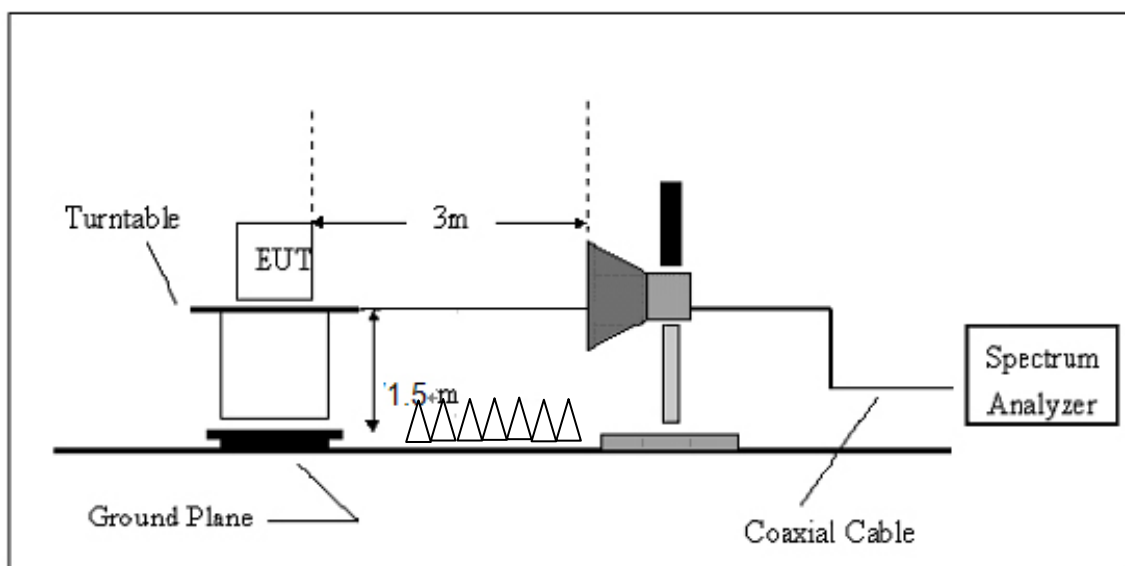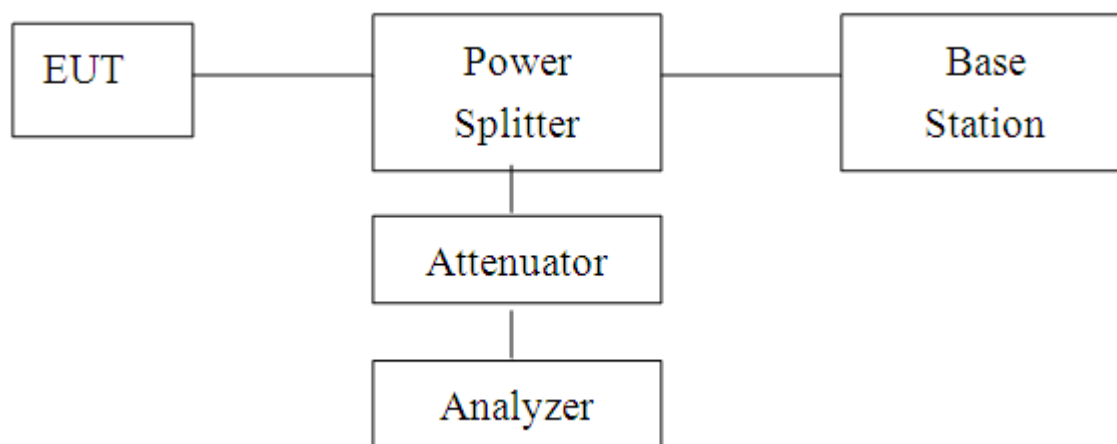
6.1 Measurement Result (Pre-measurement)

GSM850:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	0.2	128	824.2	Pass
Middle Range	0.2	190	836.6	Pass
High Range	0.2	251	848.8	Pass

PCS 1900：

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	0.2	512	1850.2	Pass
Middle Range	0.2	661	1880.0	Pass
High Range	0.2	810	1909.8	Pass

UTRA BANDS

BAND 2:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	5	9263	1852.6	Pass
Middle Range	5	9400	1880.0	Pass
High Range	5	9537	1907.4	Pass

BAND 4:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	5	1313	1712.6	Pass
Middle Range	5	1450	1740	Pass
High Range	5	1512	1752.4	Pass

BAND 5:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	5	4133	826.6	Pass
Middle Range	5	4175	835	Pass
High Range	5	4232	846.4	Pass

E-UTRA BANDS

BAND 2:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1.4	18607	1850.7	QPSK	6	LOW	Pass
1.4	18607	1850.7	Q16	6	LOW	Pass
1.4	18900	1880	QPSK	6	LOW	Pass
1.4	18900	1880	Q16	6	LOW	Pass
1.4	19193	1909.3	QPSK	6	LOW	Pass
1.4	19193	1909.3	Q16	6	LOW	Pass
3	18615	1851.5	QPSK	15	LOW	Pass
3	18615	1851.5	Q16	15	LOW	Pass
3	18900	1880	QPSK	15	LOW	Pass
3	18900	1880	Q16	15	LOW	Pass
3	19185	1908.5	QPSK	15	LOW	Pass
3	19185	1908.5	Q16	15	LOW	Pass
5	18625	1852.5	QPSK	25	LOW	Pass
5	18625	1852.5	Q16	25	LOW	Pass
5	18900	1880	QPSK	25	LOW	Pass
5	18900	1880	Q16	25	LOW	Pass
5	19175	1907.5	QPSK	25	LOW	Pass
5	19175	1907.5	Q16	25	LOW	Pass
10	18650	1855	QPSK	50	LOW	Pass
10	18650	1855	Q16	50	LOW	Pass
10	18900	1880	QPSK	50	LOW	Pass
10	18900	1880	Q16	50	LOW	Pass
10	19150	1905	QPSK	50	LOW	Pass
10	19150	1905	Q16	50	LOW	Pass
15	18675	1857.5	QPSK	75	LOW	Pass
15	18675	1857.5	Q16	75	LOW	Pass
15	18900	1880	QPSK	75	LOW	Pass
15	18900	1880	Q16	75	LOW	Pass
15	19125	1902.5	QPSK	75	LOW	Pass
15	19125	1902.5	Q16	75	LOW	Pass
20	18700	1860	QPSK	100	LOW	Pass
20	18700	1860	Q16	100	LOW	Pass
20	18900	1880	QPSK	100	LOW	Pass
20	18900	1880	Q16	100	LOW	Pass

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
20	19100	1900	QPSK	100	LOW	Pass
20	19100	1900	Q16	100	LOW	Pass

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1.4	19957	1710.7	QPSK	6	LOW	Pass
1.4	19957	1710.7	Q16	6	LOW	Pass
1.4	20393	1754.3	QPSK	6	LOW	Pass
1.4	20393	1754.3	Q16	6	LOW	Pass
1.4	20175	1732.5	QPSK	6	LOW	Pass
1.4	20175	1732.5	Q16	6	LOW	Pass
3	19965	1711.5	QPSK	15	LOW	Pass
3	19965	1711.5	Q16	15	LOW	Pass
3	20385	1753.5	QPSK	15	LOW	Pass
3	20385	1753.5	Q16	15	LOW	Pass
3	20175	1732.5	QPSK	15	LOW	Pass
3	20175	1732.5	Q16	15	LOW	Pass
5	19975	1712.5	QPSK	25	LOW	Pass
5	19975	1712.5	Q16	25	LOW	Pass
5	20375	1752.5	QPSK	25	LOW	Pass
5	20375	1752.5	Q16	25	LOW	Pass
5	20175	1732.5	QPSK	25	LOW	Pass
5	20175	1732.5	Q16	25	LOW	Pass
10	20000	1715	QPSK	50	LOW	Pass
10	20000	1715	Q16	50	LOW	Pass
10	20350	1750	QPSK	50	LOW	Pass
10	20350	1750	Q16	50	LOW	Pass
10	20175	1732.5	QPSK	50	LOW	Pass
10	20175	1732.5	Q16	50	LOW	Pass
15	20025	1717.5	QPSK	75	LOW	Pass
15	20025	1717.5	Q16	75	LOW	Pass
15	20325	1747.5	QPSK	75	LOW	Pass
15	20325	1747.5	Q16	75	LOW	Pass
15	20175	1732.5	QPSK	75	LOW	Pass
15	20175	1732.5	Q16	75	LOW	Pass
20	20050	1720	QPSK	100	LOW	Pass
20	20050	1720	Q16	100	LOW	Pass

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
20	20300	1745	QPSK	100	LOW	Pass
20	20300	1745	Q16	100	LOW	Pass
20	20175	1732.5	QPSK	100	LOW	Pass
20	20175	1732.5	Q16	100	LOW	Pass

BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
5	20775	2502.5	QPSK	25	LOW	Pass
5	20775	2502.5	Q16	25	LOW	Pass
5	21425	2567.5	QPSK	25	LOW	Pass
5	21425	2567.5	Q16	25	LOW	Pass
5	21100	2535	QPSK	25	LOW	Pass
5	21100	2535	QPSK	25	LOW	Pass
10	20800	2505	QPSK	50	LOW	Pass
10	20800	2505	Q16	50	LOW	Pass
10	21400	2565	QPSK	50	LOW	Pass
10	21400	2565	Q16	50	LOW	Pass
10	21100	2535	QPSK	50	LOW	Pass
10	21100	2535	Q16	50	LOW	Pass
15	20825	2507.5	QPSK	75	LOW	Pass
15	20825	2507.5	Q16	75	LOW	Pass
15	21375	2562.5	QPSK	75	LOW	Pass
15	21375	2562.5	Q16	75	LOW	Pass
15	21100	2535	QPSK	75	LOW	Pass
15	21100	2535	Q16	75	LOW	Pass
20	20850	2510	QPSK	100	LOW	Pass
20	20850	2510	Q16	100	LOW	Pass
20	21350	2560	QPSK	100	LOW	Pass
20	21350	2560	Q16	100	LOW	Pass
20	21100	2535	QPSK	100	LOW	Pass
20	21100	2535	Q16	100	LOW	Pass

Test Plot(s)

6.1.1 Conducted method

CONDUCTED EMISSION IN GSM850 BAND
Conducted Emission Transmitting Mode CH 128 30MHz – 1GHz


```
                              *RBW  100 kHz        Marker 2 [T1 ]
                              *VBW  300 kHz              -42.22 dBm
Ref    30 dBm    *Att  30 dB  *SWT  100 ms          877.195512821 MHz
30                                             Marker 1 [T1 ]
                                                       26.09 dBm
20                                             825.897435897 MHz
10
0
-10
D1 -13 dBm
-20
-30
-40                                    2
-50
-60
-70
Start  30 MHz            97 MHz/              Stop  1 GHz
```
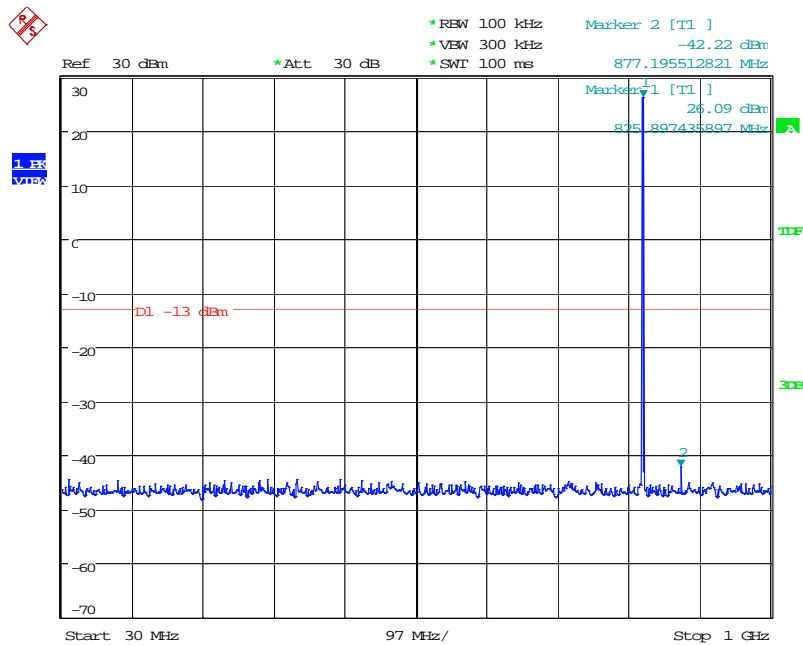
Date: 20.SEP.2016 10:20:09

Conducted Emission Transmitting Mode CH 128 1GHz – 9GHz
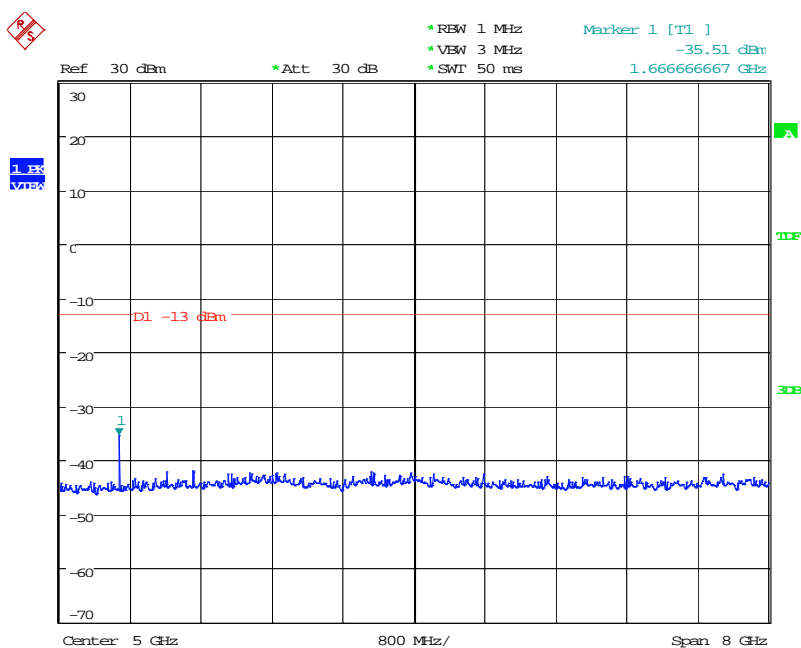
Date: 20.SEP.2016 10:26:29

Conducted Emission Transmitting Mode CH 190 30MHz – 1GHz
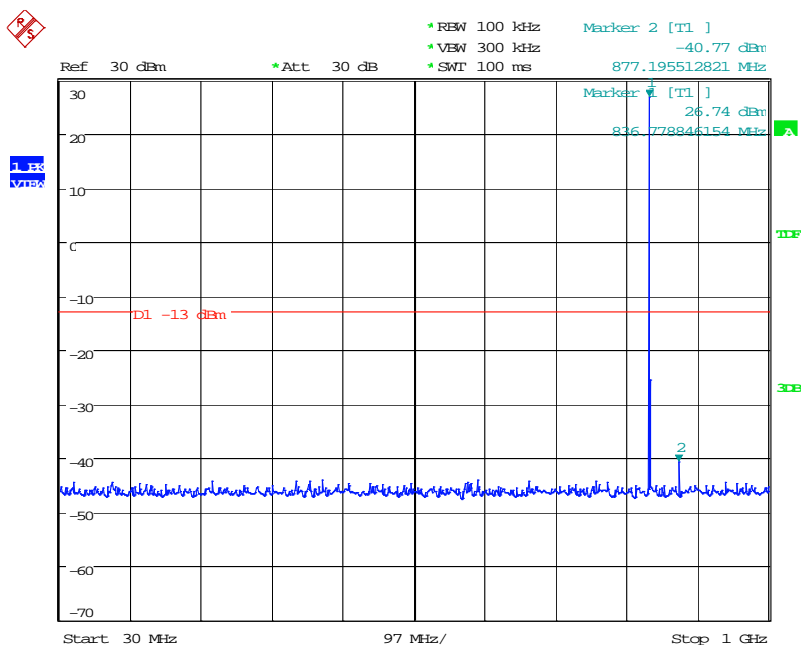
Date: 20.SEP.2016 10:22:05

Conducted Emission Transmitting Mode CH 190 1GHz – 9GHz

```
                                        *RBW  1 MHz      Marker 1 [T1 ]
                                        *VBW  3 MHz              -36.44 dBm
            Ref   30 dBm      *Att  30 dB  *SWT  50 ms      1.666666667 GHz
```
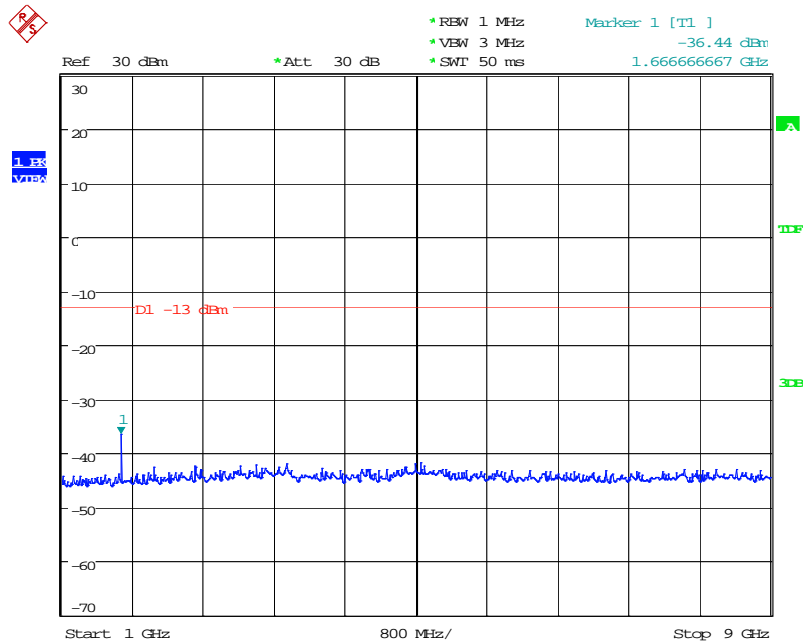
Date: 20.SEP.2016 10:25:37

Conducted Emission Transmitting Mode CH 251 30MHz – 1GHz

```
                                        *RBW  100 kHz    Marker 2 [T1 ]
                                        *VBW  300 kHz            -42.02 dBm
            Ref   30 dBm      *Att  30 dB  *SWT  100 ms     877.195512821 MHz
                                                        Marker 1 [T1 ]
                                                                26.07 dBm
                                                        849.214743590 MHz
```

Date: 20.SEP.2016 10:23:51

Report No.: FCC16093968A-5
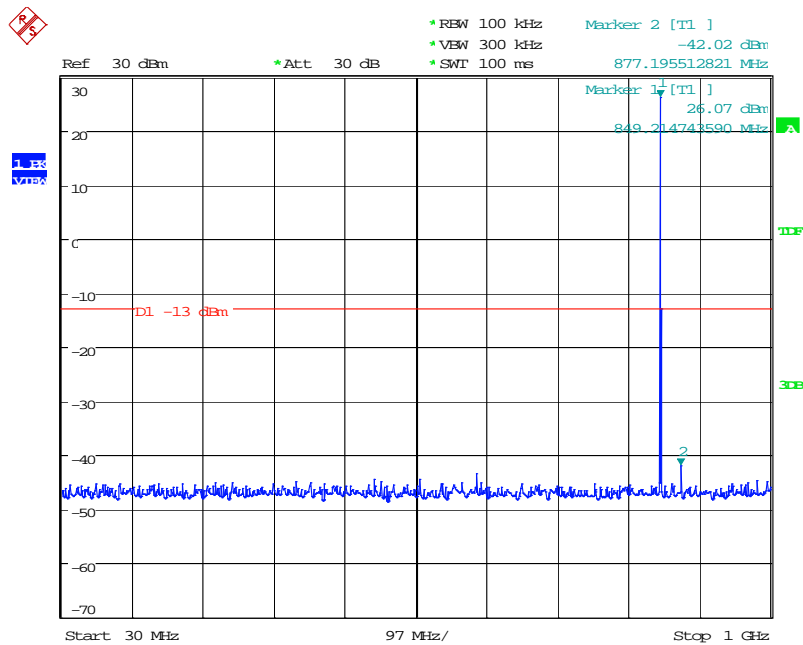
Conducted Emission Transmitting Mode CH 251 1GHz – 9GHz

```
                                    *RBW 1 MHz        Marker 1 [T1 ]
                                    *VBW 3 MHz              -36.87 dBm
Ref  30 dBm          *Att  30 dB    *SWT 50 ms        1.692307692 GHz
```



```
Start 1 GHz                    800 MHz/                    Stop 9 GHz
```
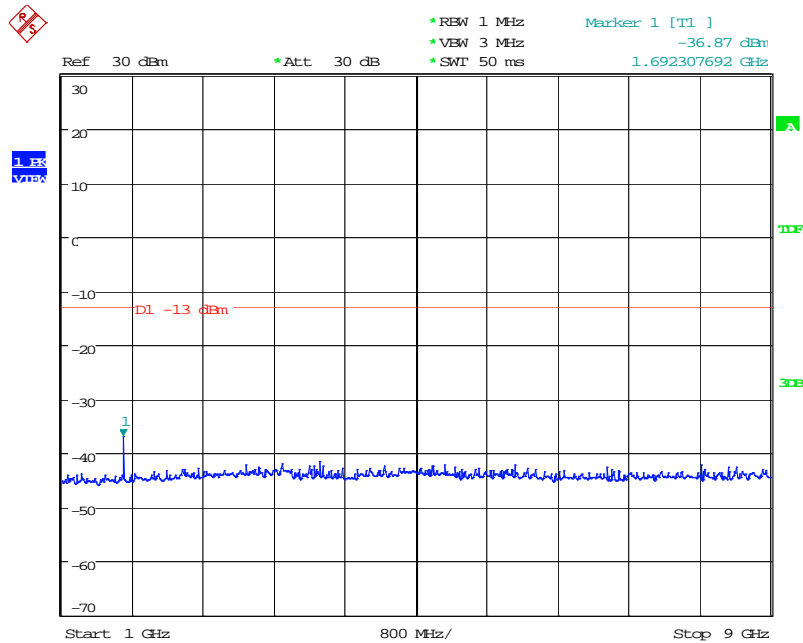
Date: 20.SEP.2016 10:24:57

CONDUCTED EMISSION IN PCS1900 BAND
Conducted Emission Transmitting Mode CH 512 30MHz – 1GHz

```
                                    *RBW 100 kHz      Marker 1 [T1 ]
                                    *VBW 300 kHz            -38.73 dBm
Ref  30 dBm          *Att  30 dB    *SWT 100 ms       961.137820513 MHz
```



```
Center 515 MHz                  97 MHz/                   Span 970 MHz
```
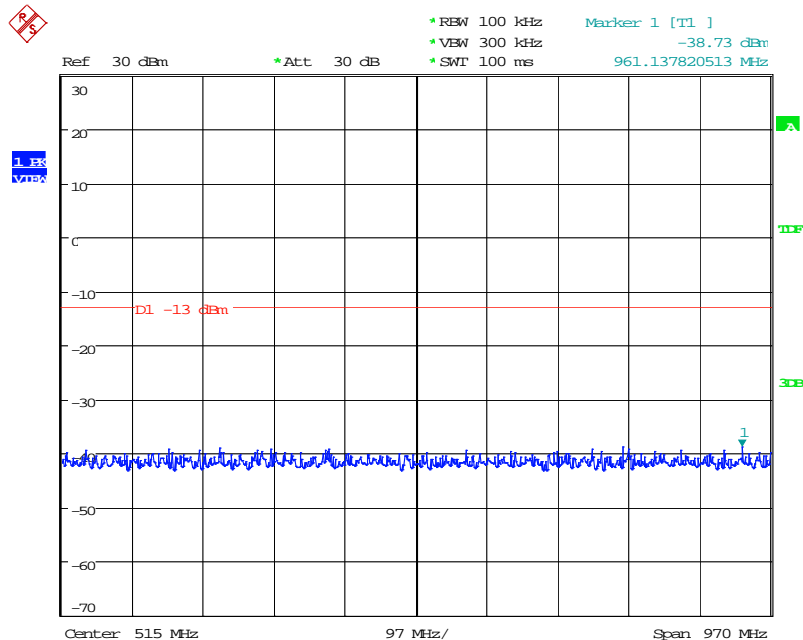
Date: 20.SEP.2016 10:44:00

Conducted Emission Transmitting Mode CH 512 1GHz – 20GHz

*RBW 1 MHz	Marker 2 [T1]
*VBW 3 MHz	-36.31 dBm
Ref 30 dBm *Att 30 dB *SWT 110 ms	16.985576923 GHz

Marker 1 [T1]
23.30 dBm
1.852564103 GHz

D1 -13 dBm

Start 1 GHz   1.9 GHz/   Stop 20 GHz
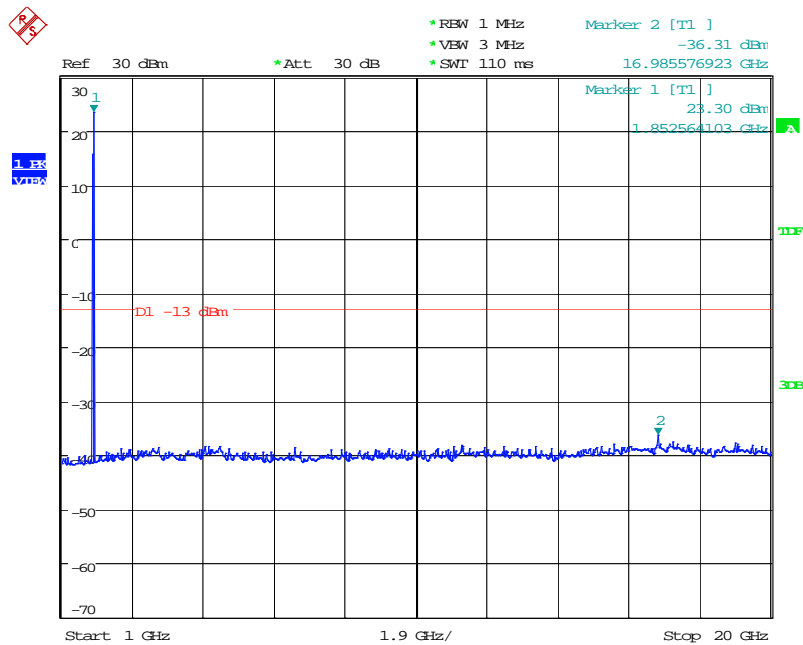
Date: 20.SEP.2016 10:39:20

Conducted Emission Transmitting Mode CH 661 30MHz – 1GHz

*RBW 100 kHz	Marker 1 [T1]
*VBW 300 kHz	-38.36 dBm
Ref 30 dBm *Att 30 dB *SWT 100 ms	445.048076923 MHz

D1 -13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 20.SEP.2016 10:43:26

Report No.: FCC16093968A-5
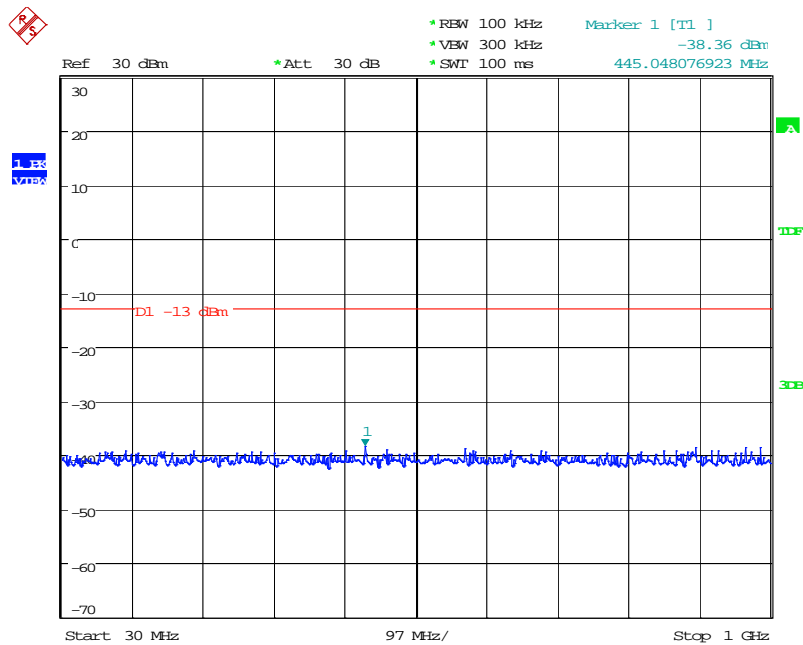
Conducted Emission Transmitting Mode CH 661 1GHz – 20GHz

*RBW 1 MHz	Marker 2 [T1]
*VBW 3 MHz	−36.10 dBm
Ref 30 dBm *Att 30 dB *SWT 110 ms	4.471153846 GHz

Marker 1 [T1]
23.80 dBm
1.883012821 GHz

D1 −13 dBm

Start 1 GHz   1.9 GHz/   Stop 20 GHz
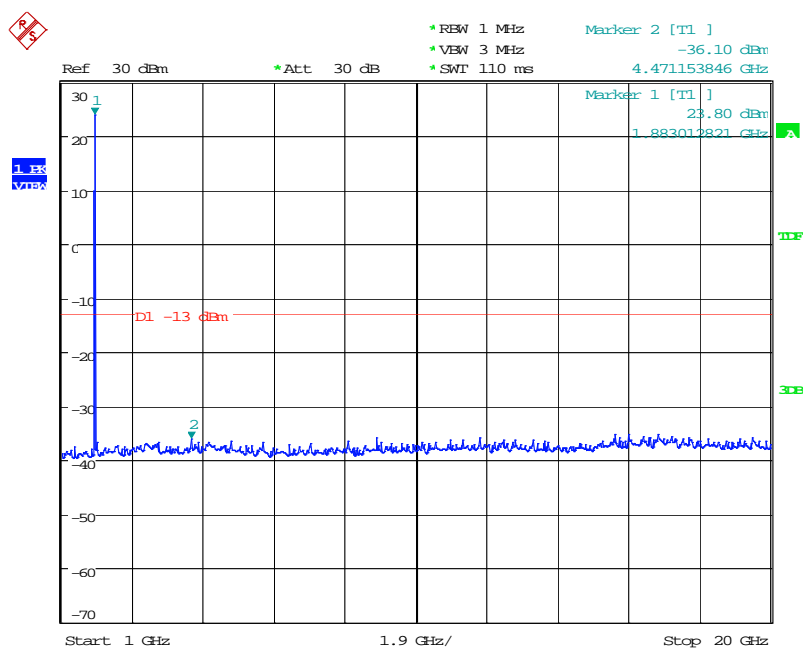
Date: 20.SEP.2016 10:40:50

Conducted Emission Transmitting Mode CH 810 30MHz – 1GHz

*RBW 100 kHz	Marker 1 [T1]
*VBW 300 kHz	−37.50 dBm
Ref 30 dBm *Att 30 dB *SWT 100 ms	141.923076923 MHz

D1 −13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 20.SEP.2016 10:42:49

Report No.: FCC16093968A-5
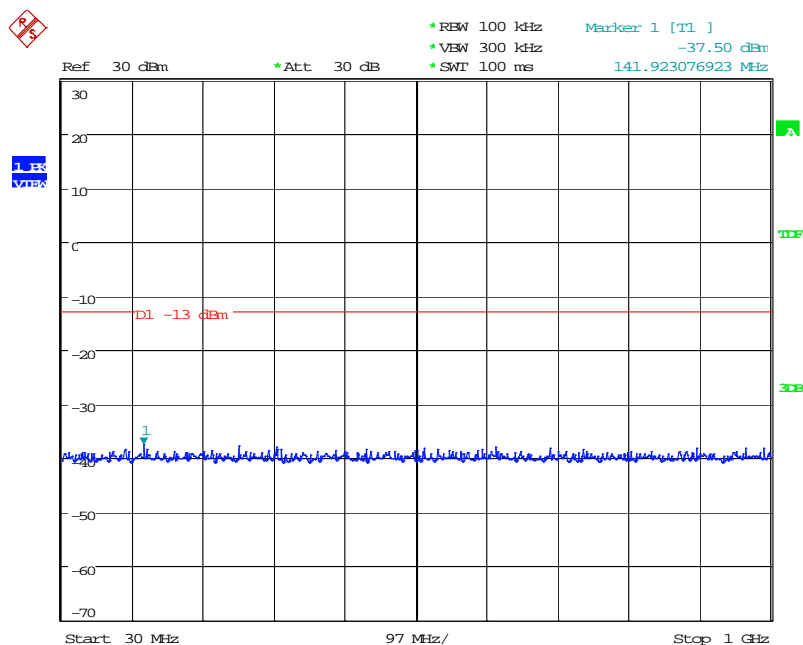
Conducted Emission Transmitting Mode CH 810 1GHz – 20GHz

```
* RBW 1 MHz          Marker 2 [T1 ]
* VBW 3 MHz                 -35.92 dBm
Ref  30 dBm      * Att  30 dB   * SWT 110 ms    3.466346154 GHz
                                Marker 1 [T1 ]
                                       23.62 dBm
                                1.883012821 GHz
```

Graph with Start 1 GHz, 1.9 GHz/, Stop 20 GHz. D1 -13 dBm marked.
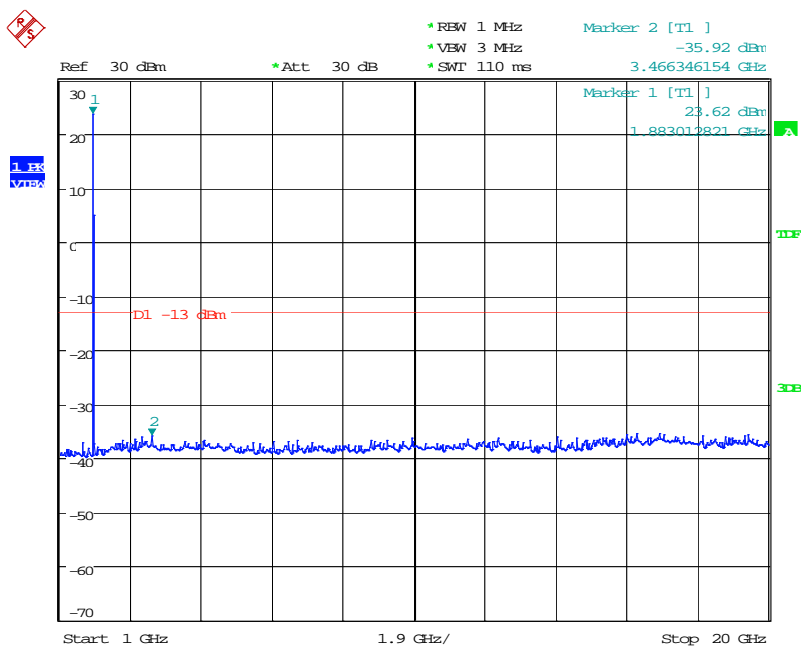
Date: 20.SEP.2016 10:41:29

CONDUCTED EMISSION IN WCDMA Band II
Conducted Emission Transmitting Mode CH 9263 30MHz – 1GHz

```
* RBW 100 kHz        Marker 1 [T1 ]
* VBW 300 kHz               -39.68 dBm
Ref  30 dBm      * Att  30 dB   * SWT 100 ms    620.705128205 MHz
```

Graph with Start 30 MHz, 97 MHz/, Stop 1 GHz. D1 -13 dBm marked.

Date: 20.SEP.2016 10:57:40

Report No.: FCC16093968A-5
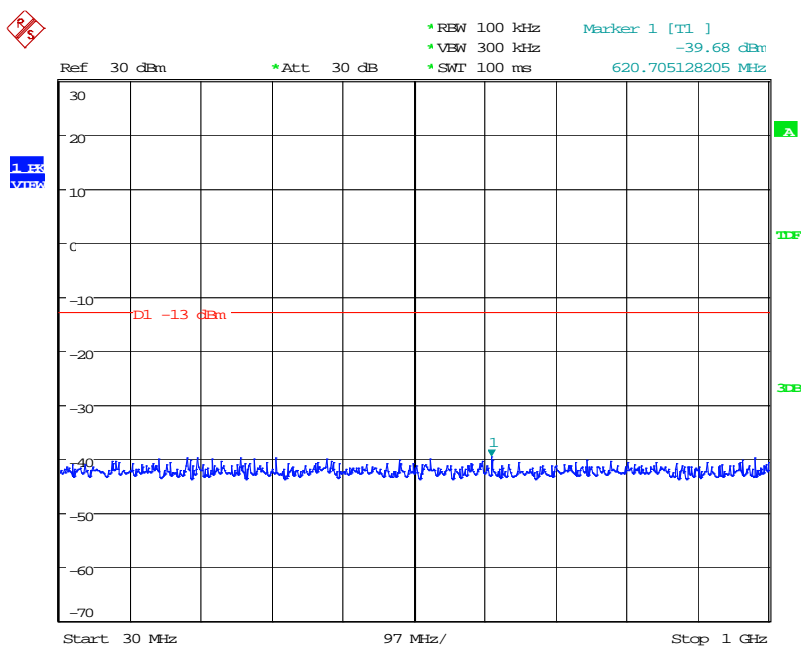
Conducted Emission Transmitting Mode CH 9263 1GHz – 20GHz

```
                              *RBW  1 MHz      Marker 2 [T1 ]
                              *VBW  3 MHz            -36.76 dBm
     Ref   30 dBm        *Att  30 dB   *SWT  110 ms   1.578525641 GHz
      30                                          Marker 1 [T1 ]
                                                        14.83 dBm
      20  1                                        1.852564103 GHz   A
1 PK
VIEW  10

       0

     -10   D1 -13 dBm

     -20

     -30                                                           TDF
        2
     -40

     -50                                                           3DB

     -60

     -70
     Start  1 GHz            1.9 GHz/            Stop  20 GHz
```
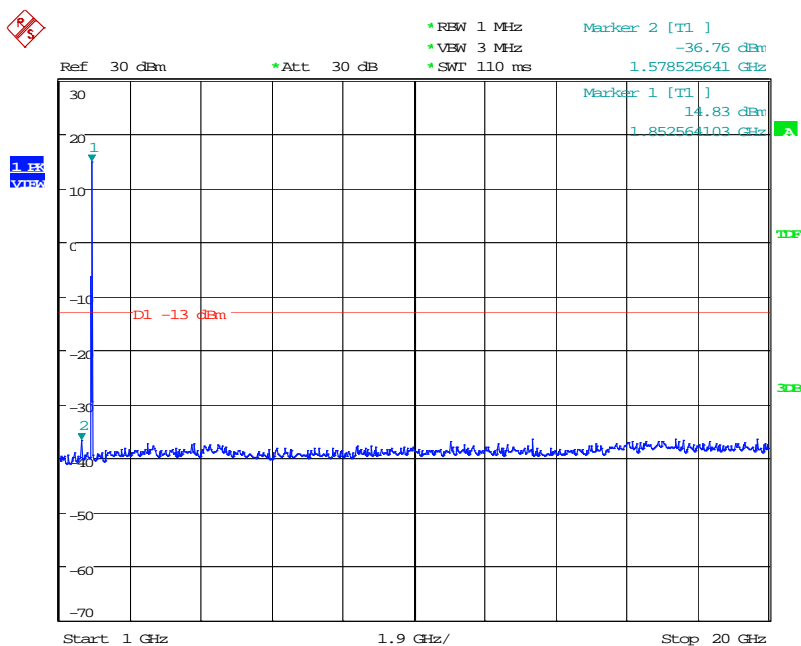
Date: 20.SEP.2016 10:54:44

Conducted Emission Transmitting Mode CH 9400 30MHz – 1GHz

```
                              *RBW  100 kHz     Marker 1 [T1 ]
                              *VBW  300 kHz          -39.36 dBm
     Ref   30 dBm        *Att  30 dB   *SWT  100 ms   841.442307692 MHz
      30

      20                                                           A
1 PK
VIEW  10

       0

     -10   D1 -13 dBm

     -20

     -30                                                           TDF

     -40                              1

     -50                                                           3DB

     -60

     -70
     Start  30 MHz           97 MHz/             Stop  1 GHz
```
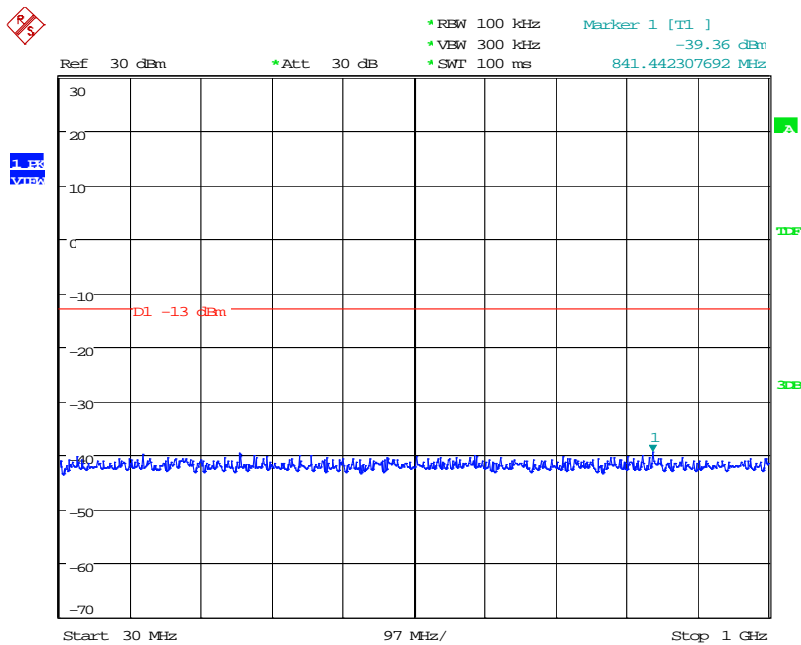
Date: 20.SEP.2016 10:58:14

Conducted Emission Transmitting Mode CH 9400 1GHz – 20GHz

```
                                        *RBW 1 MHz        Marker 2 [T1 ]
                                        *VBW 3 MHz                -35.91 dBm
        Ref   30 dBm        *Att  30 dB  *SWT 110 ms      18.934294872 GHz
         30                                              Marker 1 [T1 ]
                                                                  13.40 dBm
         20                                               1.883012821 GHz   A
   1 PK
   VIEW   10      1
          C
        -10
              D1 -13 dBm
        -20
        -30                                         2
                                                                  3DB
        -40
        -50
        -60
        -70
        Start 1 GHz              1.9 GHz/              Stop  20 GHz
```
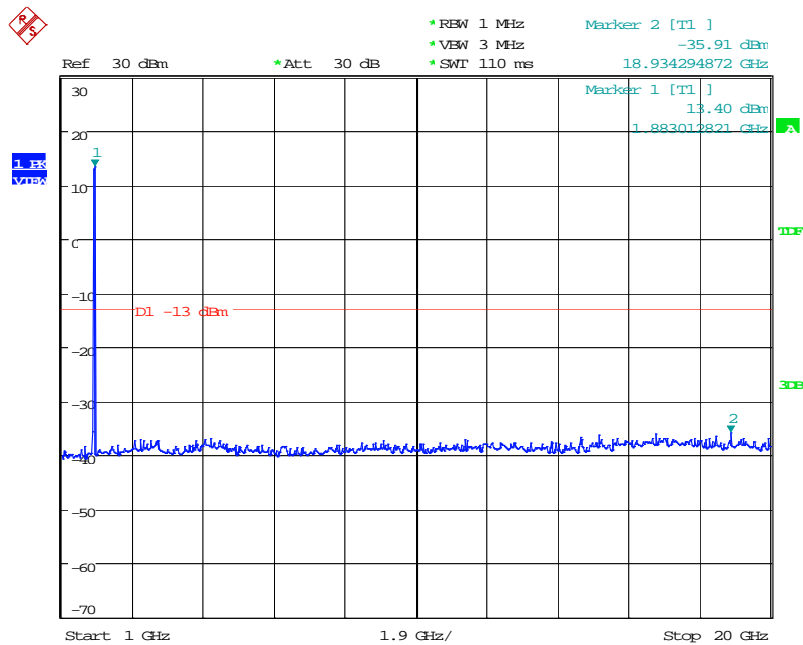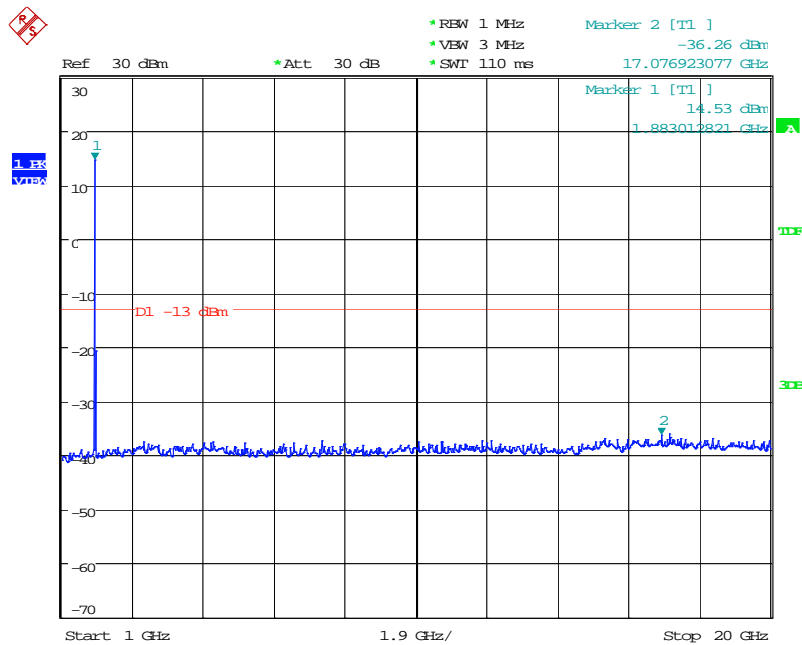
Date: 20.SEP.2016 10:55:35

Conducted Emission Transmitting Mode CH 9537 30MHz – 1GHz

```
                                        *RBW 100 kHz      Marker 1 [T1 ]
                                        *VBW 300 kHz             -39.15 dBm
        Ref   30 dBm        *Att  30 dB  *SWT 100 ms       289.599358974 MHz
         30
         20                                                              A
   1 PK
   VIEW   10
          C
        -10
              D1 -13 dBm
        -20
        -30
                              1
                                                                  3DB
        -50
        -60
        -70
        Center 515 MHz            97 MHz/              Span  970 MHz
```
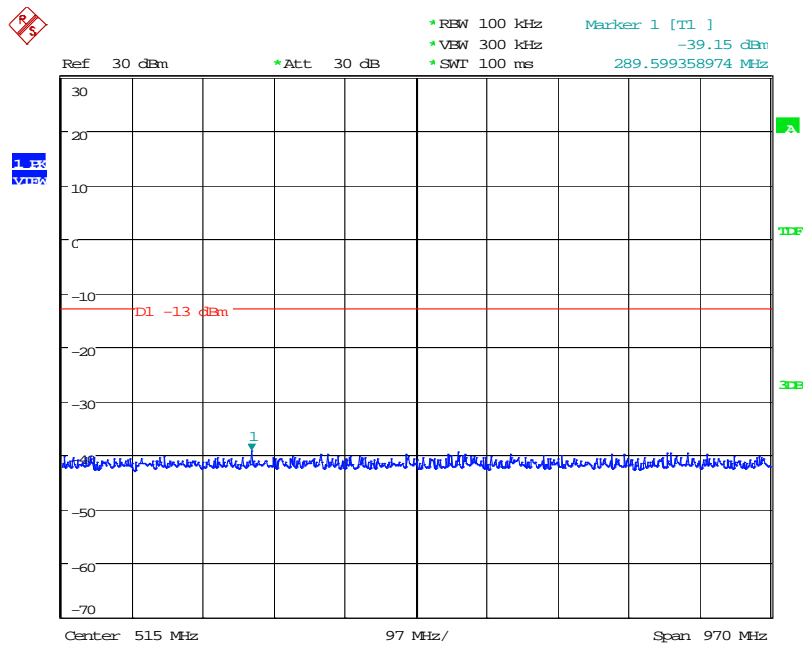
Date: 20.SEP.2016 10:58:44

Conducted Emission Transmitting Mode CH 9537 1GHz – 20GHz

```
                                        *RBW  1 MHz        Marker 2 [T1 ]
                                        *VBW  3 MHz              -36.26 dBm
         Ref   30 dBm      *Att  30 dB  *SWT  110 ms       17.076923077 GHz
                                                          Marker 1 [T1 ]
                                                                14.53 dBm
                                                           1.883012821 GHz

    1 PK
    VIEW

          D1 -13 dBm

                                                                 2


         Start 1 GHz              1.9 GHz/              Stop  20 GHz
```

Date: 20.SEP.2016   10:56:23

CONDUCTED EMISSION IN WCDMA Band IV
Conducted Emission Transmitting Mode CH 1313 30MHz – 1GHz

```
                                        *RBW  100 kHz       Marker 1 [T1 ]
                                        *VBW  300 kHz            -39.26 dBm
         Ref   30 dBm      *Att  30 dB  *SWT  100 ms       300.480769231 MHz

    1 PK
    VIEW

          D1 -13 dBm

                                 1

         Start 30 MHz             97 MHz/              Stop  1 GHz
```

Date: 20.SEP.2016   11:00:04

Report No.: FCC16093968A-5

Conducted Emission Transmitting Mode CH 1313 1GHz – 20GHz

Date: 20.SEP.2016 11:17:34

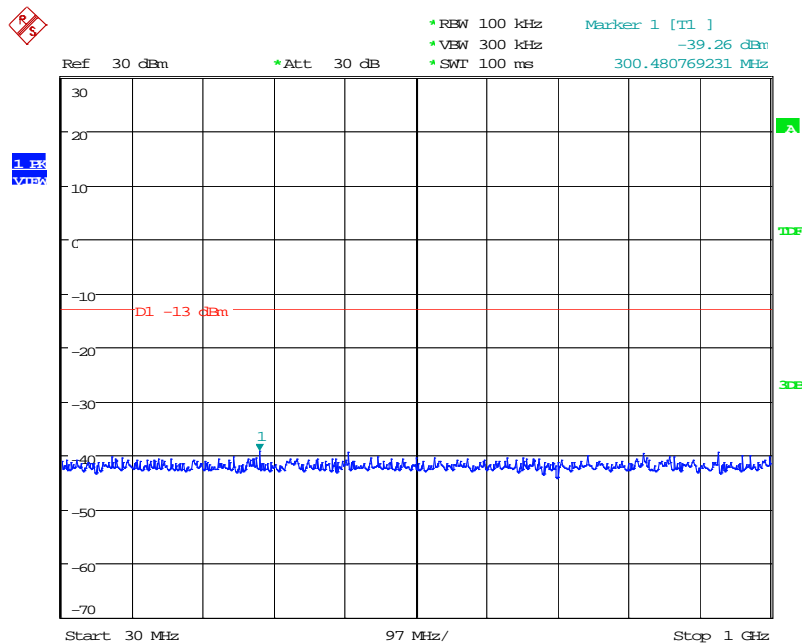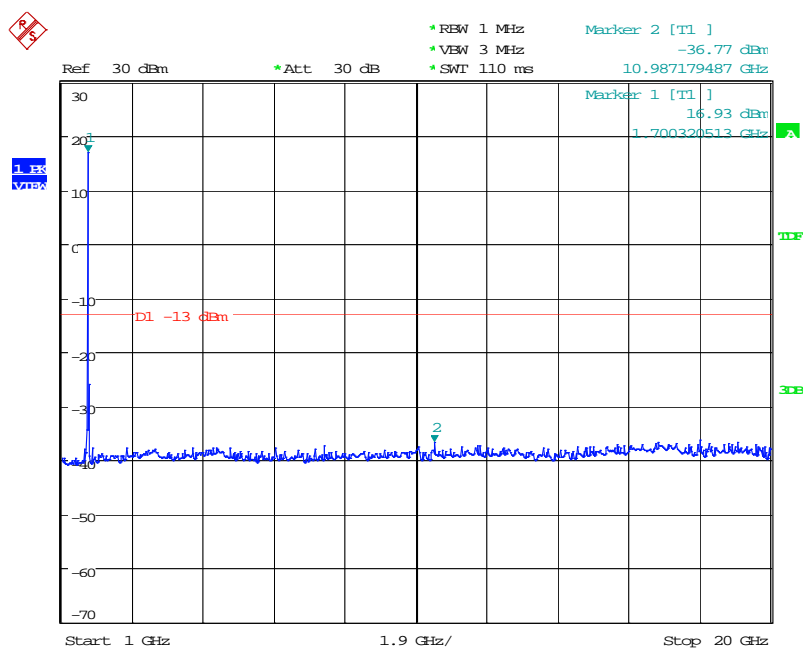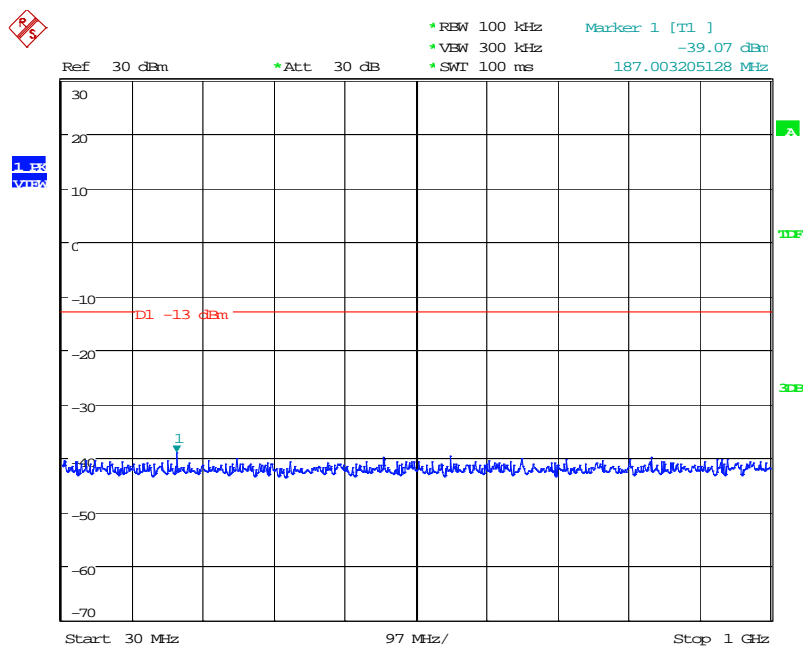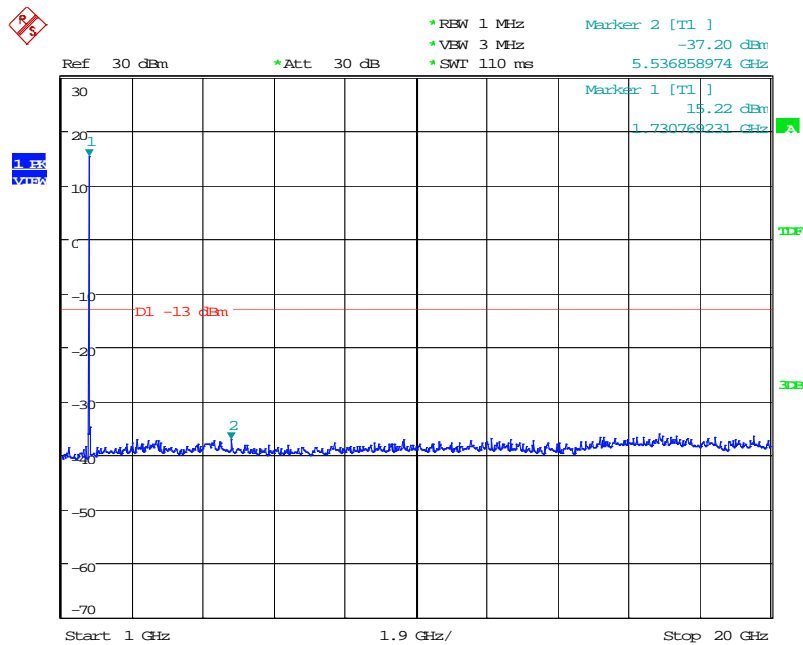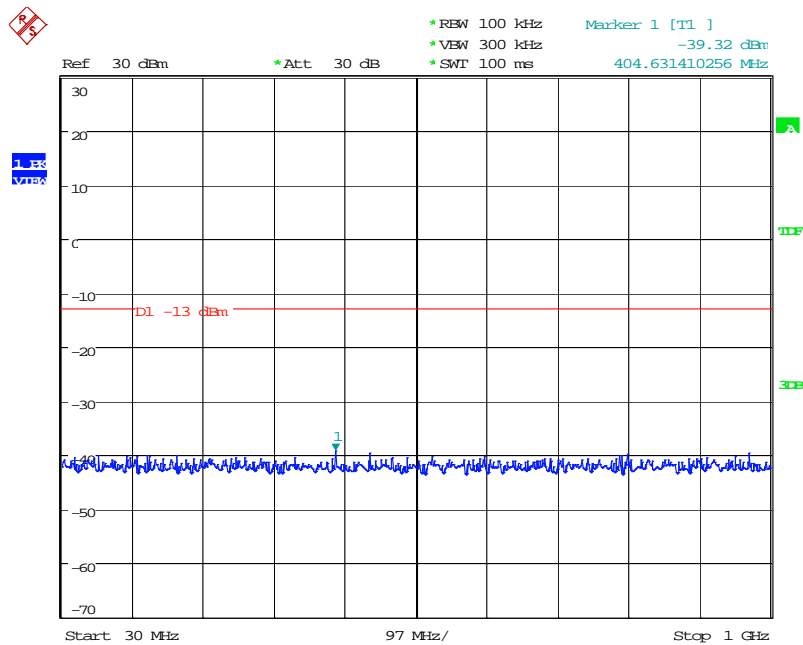## Conducted Emission Transmitting Mode CH 1450 30MHz – 1GHz

Date: 20.SEP.2016 11:00:32

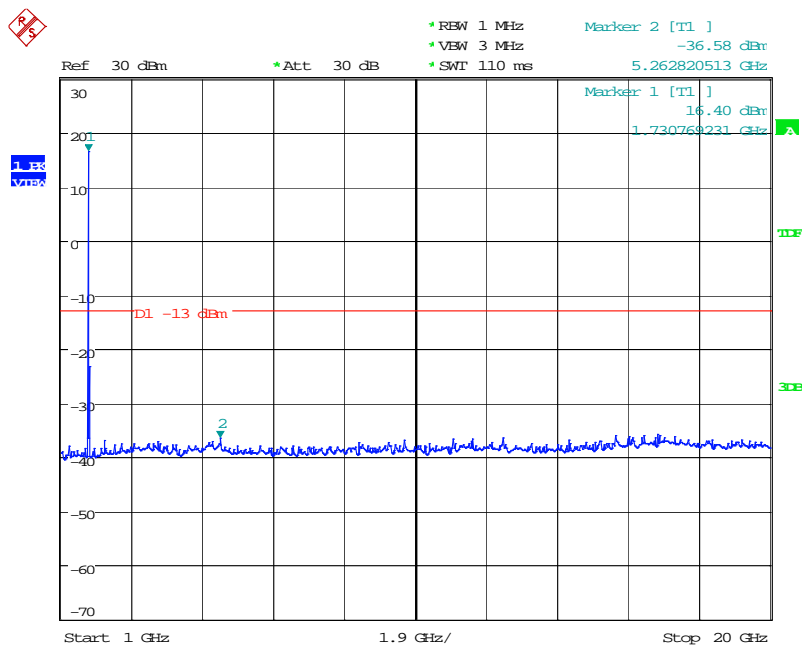## Conducted Emission Transmitting Mode CH 1450 1GHz – 20GHz

```
                                    *RBW 1 MHz          Marker 2 [T1 ]
                                    *VBW 3 MHz                   -37.20 dBm
        Ref  30 dBm      *Att  30 dB  *SWT 110 ms        5.536858974 GHz
```

Marker 1 [T1]
15.22 dBm
1.730769231 GHz

D1 –13 dBm

Start 1 GHz   1.9 GHz/   Stop 20 GHz

Date: 20.SEP.2016 11:16:55

Conducted Emission Transmitting Mode CH 1512 30MHz – 1GHz

```
                                    *RBW 100 kHz        Marker 1 [T1 ]
                                    *VBW 300 kHz                 -39.32 dBm
        Ref  30 dBm      *Att  30 dB  *SWT 100 ms        404.631410256 MHz
```

D1 –13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 20.SEP.2016 11:01:04

Report No.: FCC16O93968A-5

Conducted Emission Transmitting Mode CH 1512 1GHz – 20GHz

```
                                    *RBW 1 MHz        Marker 2 [T1 ]
                                    *VBW 3 MHz              -36.58 dBm
    Ref   30 dBm      *Att  30 dB   *SWT 110 ms       5.262820513 GHz
                                                  Marker 1 [T1 ]
     30                                                  16.40 dBm
    201                                             1.730769231 GHz  A
    10
     0
    -10   D1 -13 dBm
    -20
    -30        2
    -40
    -50
    -60
    -70
    Start 1 GHz              1.9 GHz/            Stop  20 GHz
```

Date: 20.SEP.2016 11:15:53

CONDUCTED EMISSION IN WCDMA Band V
Conducted Emission Transmitting Mode CH 4133 30MHz – 1GHz

```
                                    *RBW 100 kHz      Marker 2 [T1 ]
                                    *VBW 300 kHz            -38.22 dBm
    Ref   30 dBm      *Att  30 dB   *SWT 100 ms       869.423076923 MHz
                                                  Marker 1 [T1 ]
     30                                                  14.56 dBm
     20                                             827.451923077 MHz  A
                                                    1
     10
     0
    -10   D1 -13 dBm
    -20
    -30
    -40                                               2
    -50
    -60
    -70
    Start 30 MHz             97 MHz/             Stop  1 GHz
```
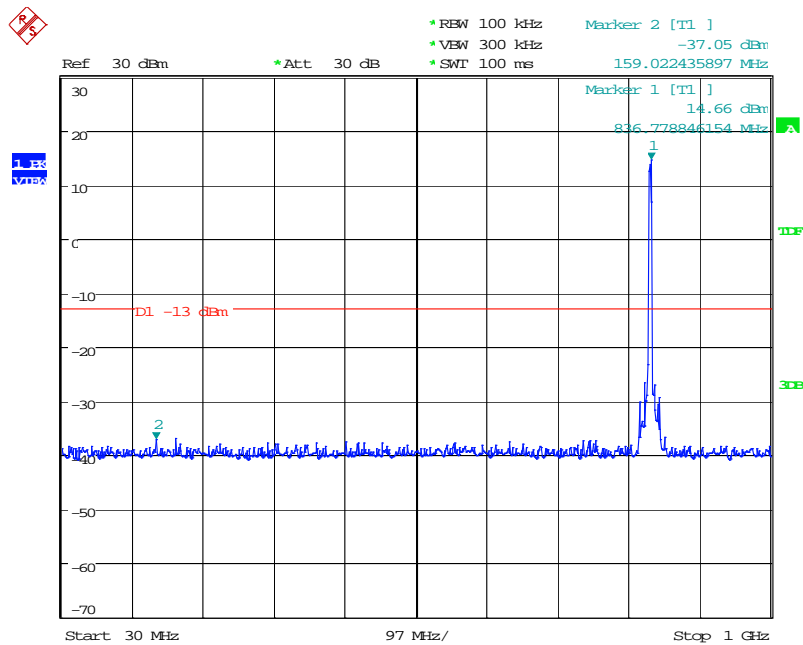
Date: 20.SEP.2016 10:47:57

Report No.: FCC16093968A-5
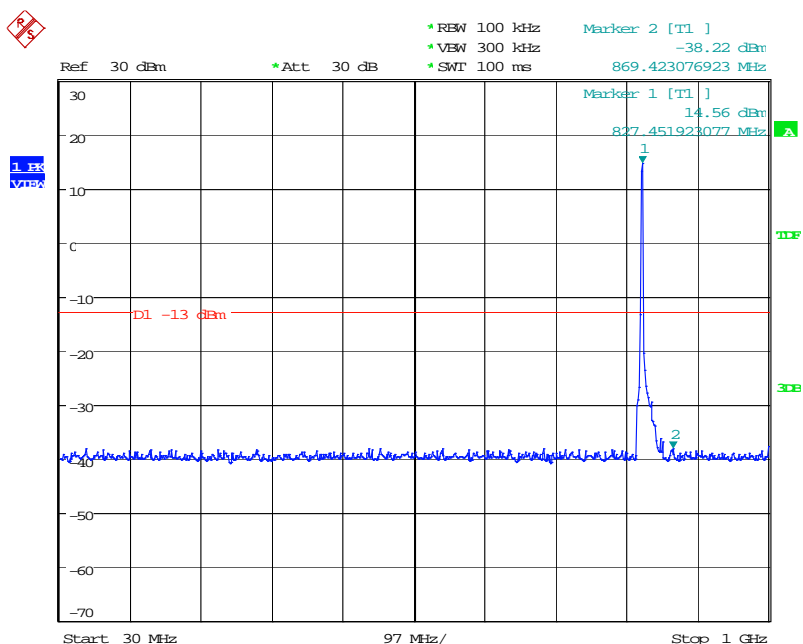
Conducted Emission Transmitting Mode CH 4133 1GHz – 9GHz

*RBW 1 MHz	Marker 1 [T1]
*VBW 3 MHz	-33.43 dBm
Ref 30 dBm *Att 30 dB *SWT 50 ms	7.333333333 GHz

1 PK
VIEW

A

TDF

D1 -13 dBm

3DB

Start 1 GHz   800 MHz/   Stop 9 GHz
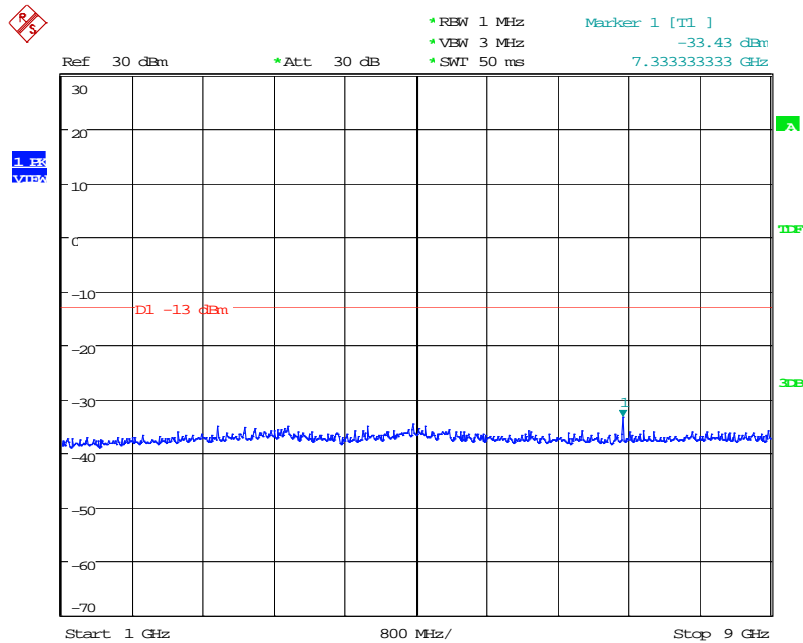
Date: 20.SEP.2016 10:51:13

Conducted Emission Transmitting Mode CH 4175 30MHz – 1GHz

*RBW 100 kHz	Marker 2 [T1]
*VBW 300 kHz	-37.05 dBm
Ref 30 dBm *Att 30 dB *SWT 100 ms	159.022435897 MHz
	Marker 1 [T1]
	14.66 dBm
	836.778846154 MHz

1 PK
VIEW

A

TDF

D1 -13 dBm

3DB

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 20.SEP.2016 10:49:18

Report No.: FCC16093968A-5

Conducted Emission Transmitting Mode CH 4175 1GHz – 9GHz

```
                                    *RBW  1 MHz        Marker 1 [T1 ]
                                    *VBW  3 MHz              -34.55 dBm
        Ref   30 dBm     *Att  30 dB *SWT 50 ms        3.525641026 GHz
```
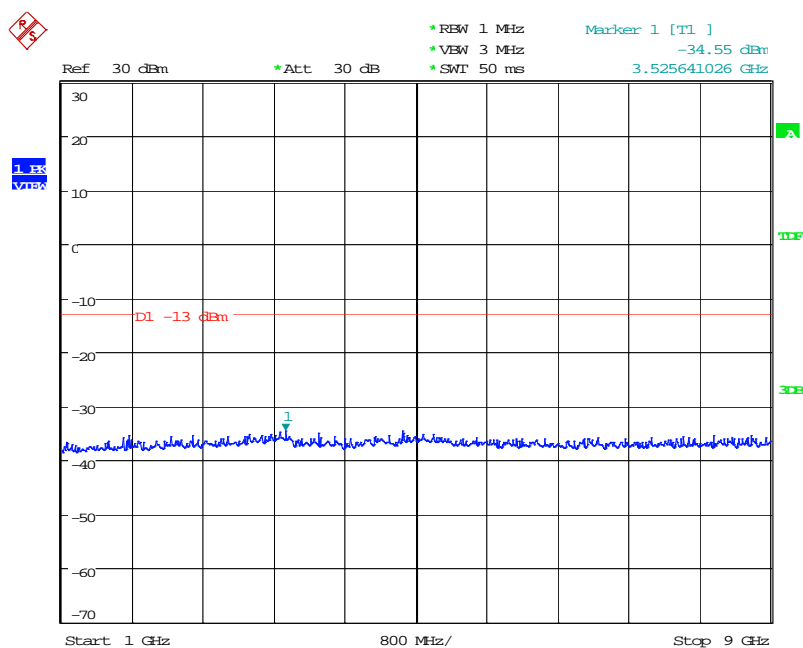
Date: 20.SEP.2016 10:51:47

Conducted Emission Transmitting Mode CH 4232 30MHz – 1GHz

```
                                    *RBW  100 kHz      Marker 2 [T1 ]
                                    *VBW  300 kHz            -37.77 dBm
        Ref   30 dBm     *Att  30 dB *SWT 100 ms       734.182692308 MHz
                                                       Marker 1 [T1 ]
                                                             14.03 dBm
                                                       849.214743590 MHz
```

Date: 20.SEP.2016 10:50:04

Report No.: FCC16093968A-5
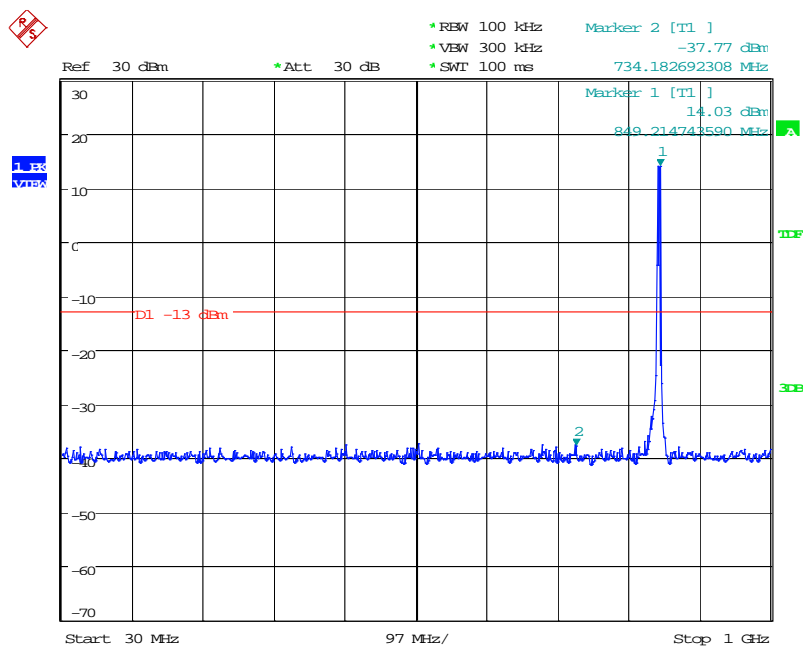
Conducted Emission Transmitting Mode CH 4232 1GHz – 9GHz

```
                                      *RBW  1 MHz      Marker 1 [T1 ]
                                      *VBW  3 MHz               -34.12 dBm
          Ref   30 dBm     *Att   30 dB   *SWT  50 ms      3.564102564 GHz
```



```
Start  1 GHz              800 MHz/                Stop  9 GHz
```
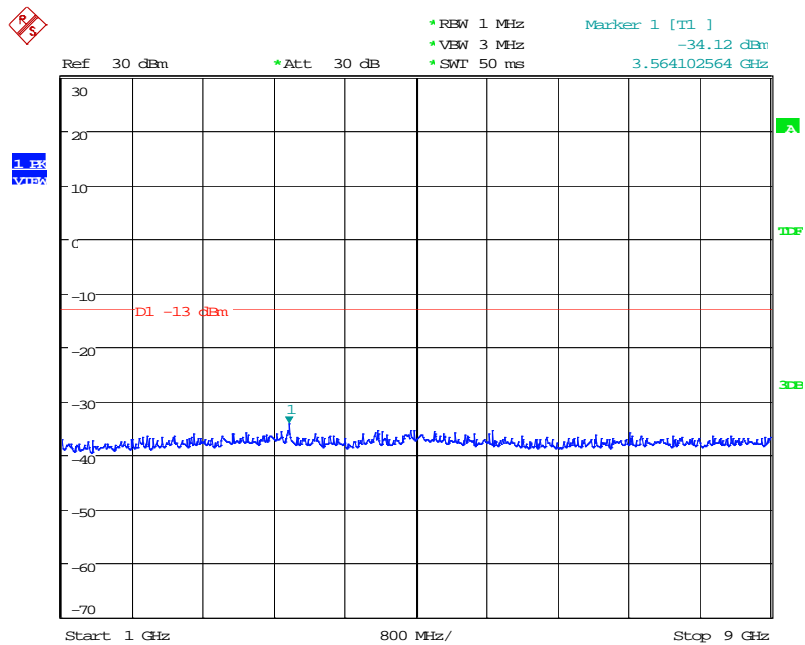
Date: 20.SEP.2016   10:52:23

BAND 2@Conducted Spurious Emission

BW1.4MHz-1850.7MHz,QPSK-6RB_LOW@Pass
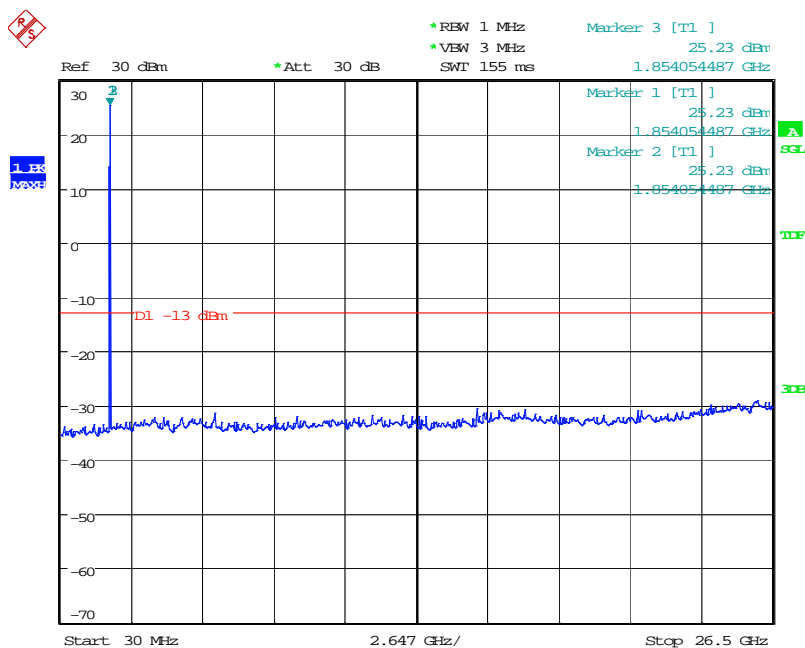
Date: 26.SEP.2016 17:12:54

BW1.4MHz-1850.7MHz,Q16-6RB_LOW@Pass
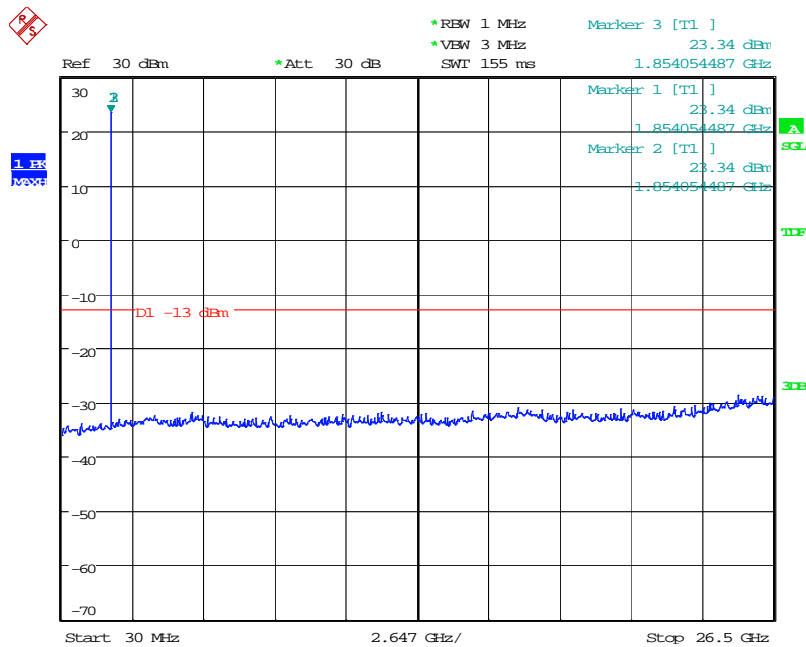

Date: 26.SEP.2016 17:14:15
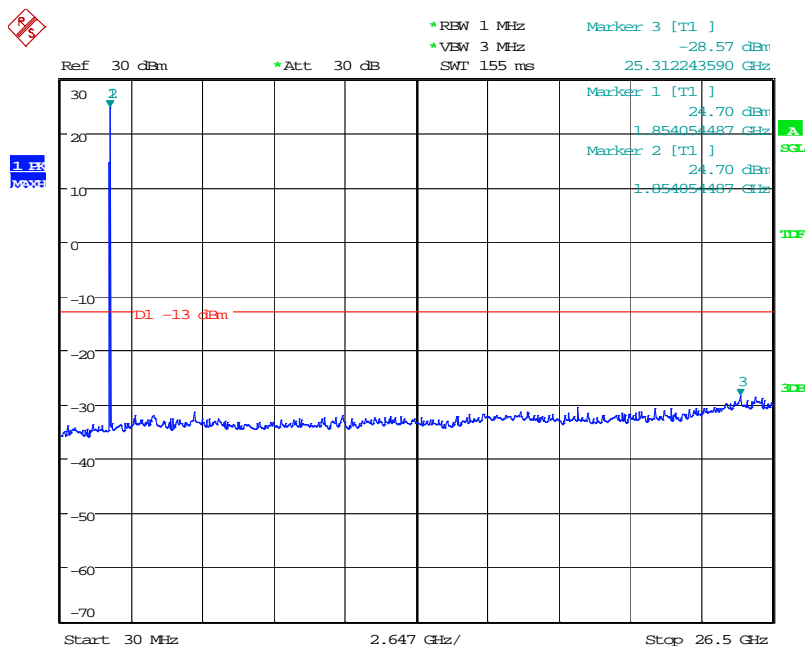
Report No.: FCC16093968A-5
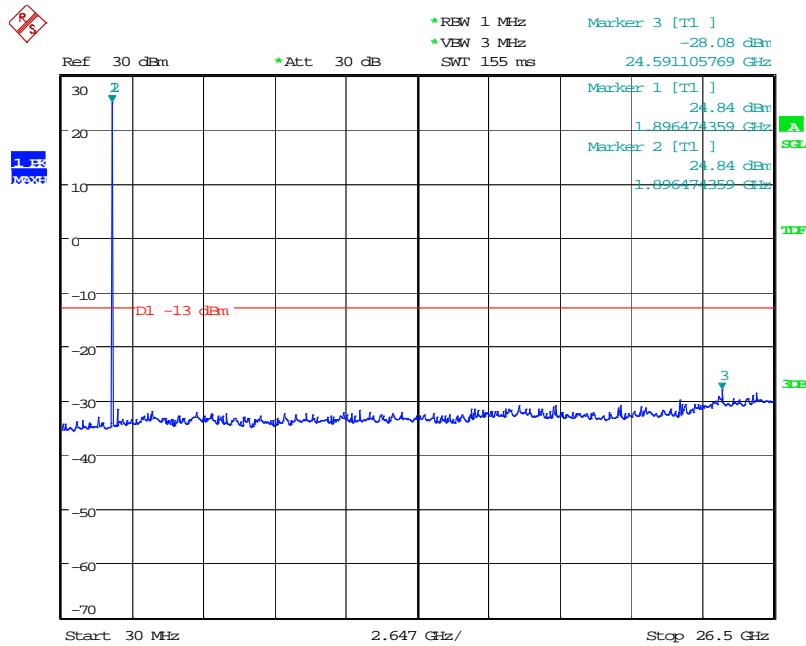
BW1.4MHz-1880MHz,QPSK-6RB_LOW@Pass
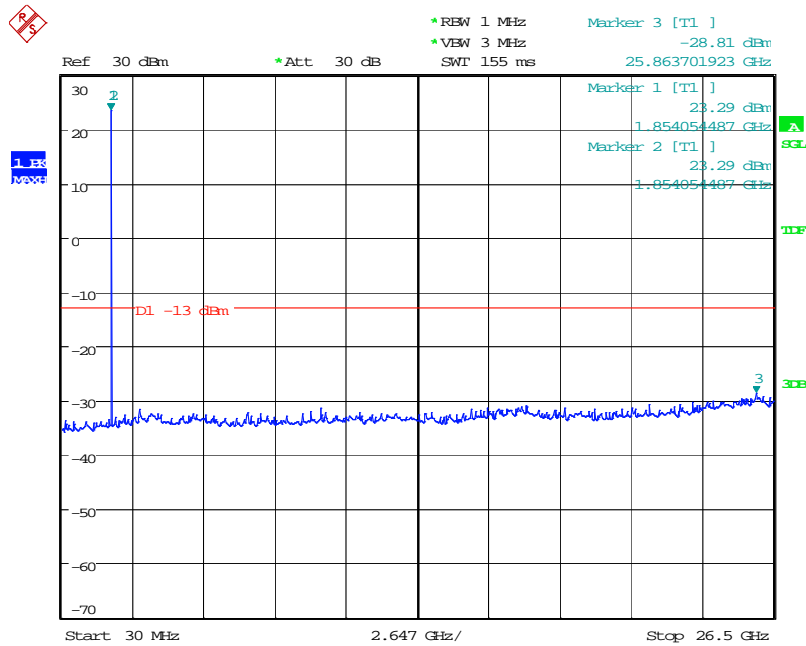
Date: 26.SEP.2016 17:18:19

BW1.4MHz-1880MHz,Q16-6RB_LOW@Pass

Date: 26.SEP.2016 17:18:52

Report No.: FCC16093968A-5

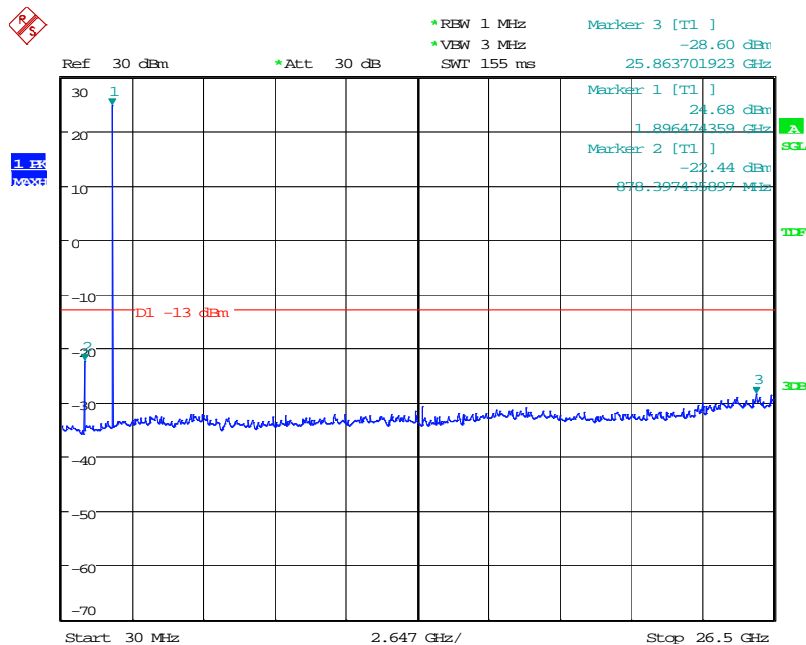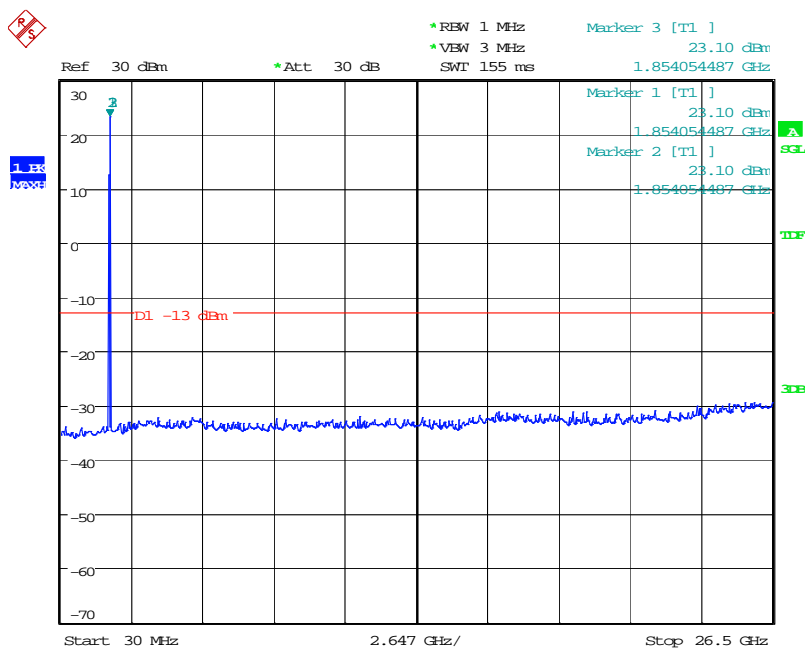### BW1.4MHz-1909.3MHz,QPSK-6RB_LOW@Pass

Date: 26.SEP.2016 17:15:52

BW1.4MHz-1909.3MHz,Q16-6RB_LOW@Pass

Date: 26.SEP.2016 17:17:30

Report No.: FCC16O93968A-5

BW3MHz-1851.5MHz,QPSK-15RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	23.10 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	1.854054487 GHz

Marker 1 [T1]
23.10 dBm
1.854054487 GHz
Marker 2 [T1]
23.10 dBm
1.054054407 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 17:19:37

BW3MHz-1851.5MHz,Q16-15RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−28.59 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
22.85 dBm
1.854054487 GHz
Marker 2 [T1]
22.85 dBm
1.054054407 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 17:20:25
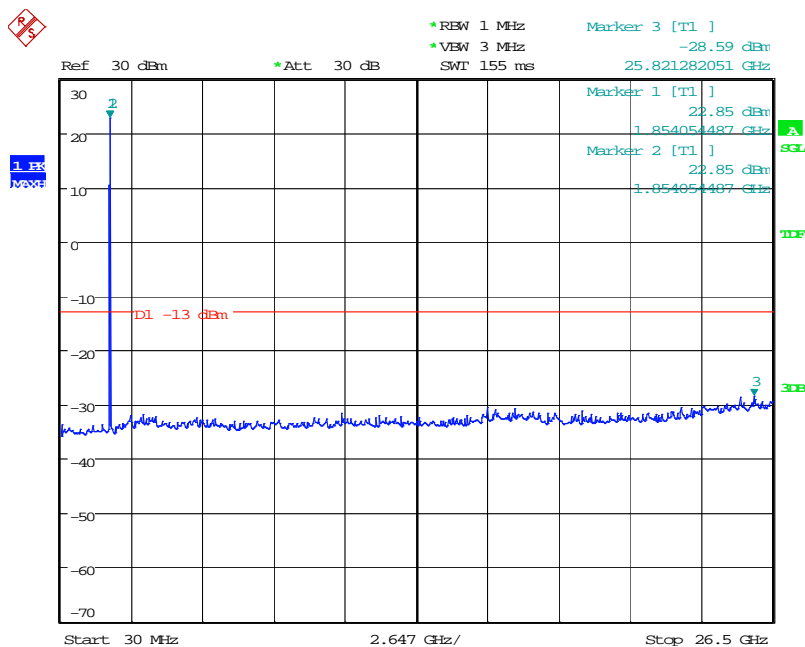
Report No.: FCC16093968A-5

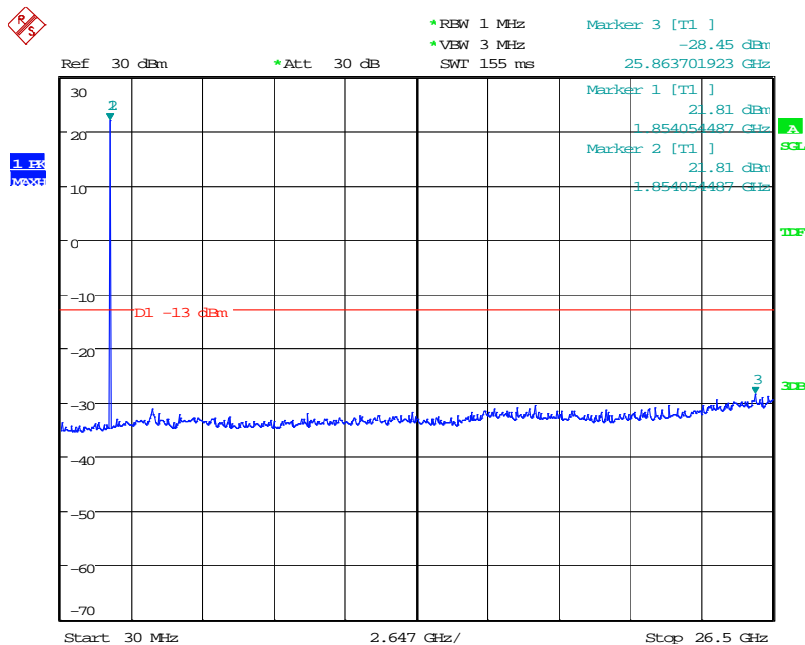### BW3MHz-1880MHz,QPSK-15RB_LOW@Pass
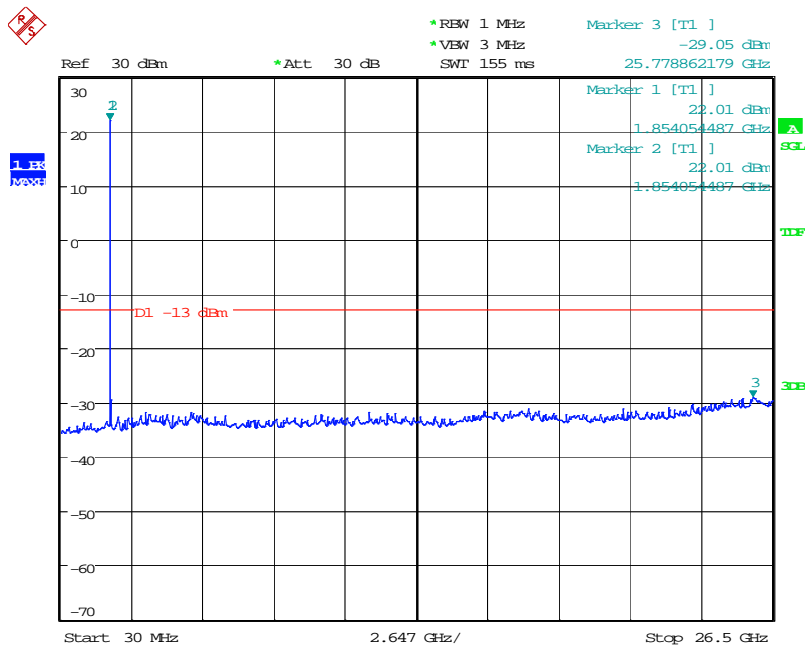
Date: 26.SEP.2016 17:23:05

BW3MHz-1880MHz,Q16-15RB_LOW@Pass

Date: 26.SEP.2016 17:23:32

Report No.: FCC16O93968A-5

BW3MHz-1908.5MHz,QPSK-15RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	23.47 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	1.896474359 GHz

Marker 1 [T1]
23.47 dBm
1.896474359 GHz

Marker 2 [T1]
23.47 dBm
1.096474359 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
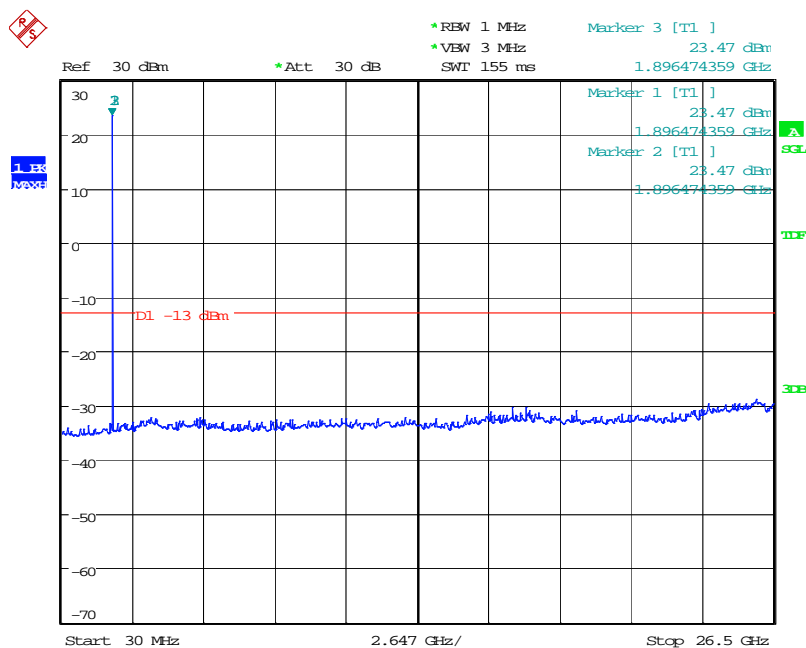
Date: 26.SEP.2016 17:21:29

BW3MHz-1908.5MHz,Q16-15RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−28.55 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
23.28 dBm
1.896474359 GHz

Marker 2 [T1]
23.28 dBm
1.096474359 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 17:22:33

Report No.: FCC16093968A-5
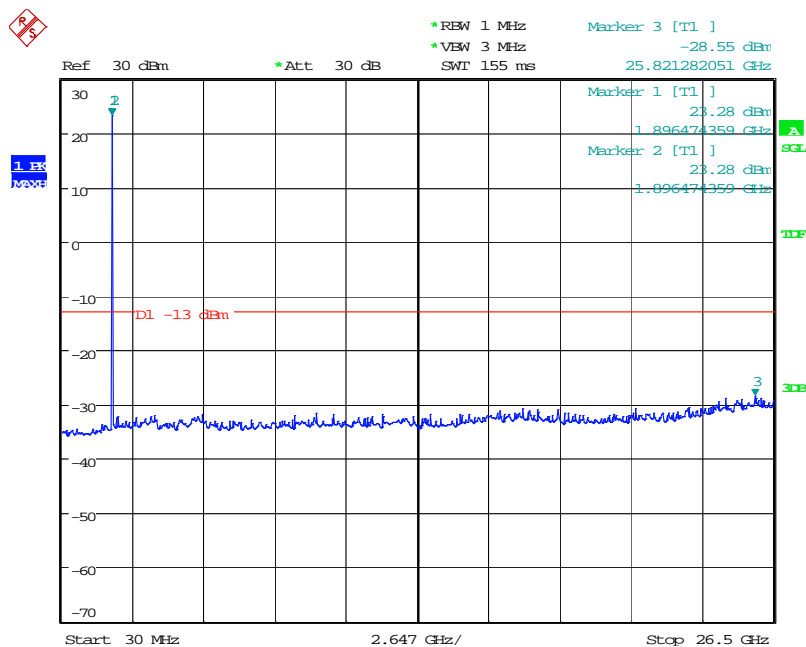
BW5MHz-1852.5MHz,QPSK-25RB_LOW@Pass

RBW 1 MHz   Marker 3 [T1]
VBW 3 MHz   21.99 dBm
Ref 30 dBm   Att 30 dB   SWT 155 ms   1.854054487 GHz

Marker 1 [T1]
21.99 dBm
1.854054487 GHz
Marker 2 [T1]
21.99 dBm
1.854054407 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
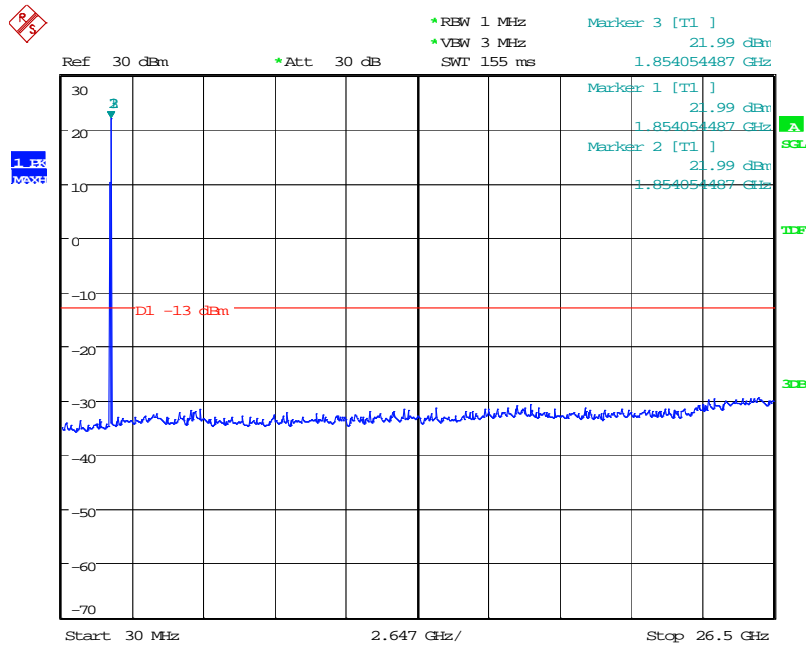
Date: 26.SEP.2016 17:24:20

BW5MHz-1852.5MHz,Q16-25RB_LOW@Pass

RBW 1 MHz   Marker 3 [T1]
VBW 3 MHz   -28.95 dBm
Ref 30 dBm   Att 30 dB   SWT 155 ms   25.990961538 GHz

Marker 1 [T1]
22.28 dBm
1.854054487 GHz
Marker 2 [T1]
22.28 dBm
1.854054407 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 17:33:03

Report No.: FCC16093968A-5
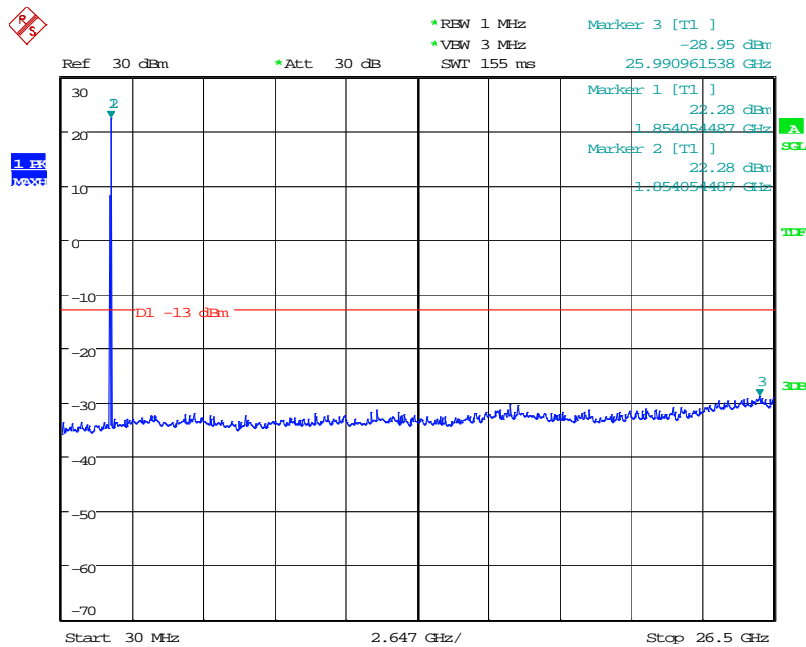
BW5MHz-1880MHz,QPSK-25RB_LOW@Pass

		*RBW 1 MHz	Marker 3 [T1]	
		*VBW 3 MHz	21.04 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	1.854054487 GHz	

Marker 1 [T1]
21.04 dBm
1.854054487 GHz
Marker 2 [T1]
21.04 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
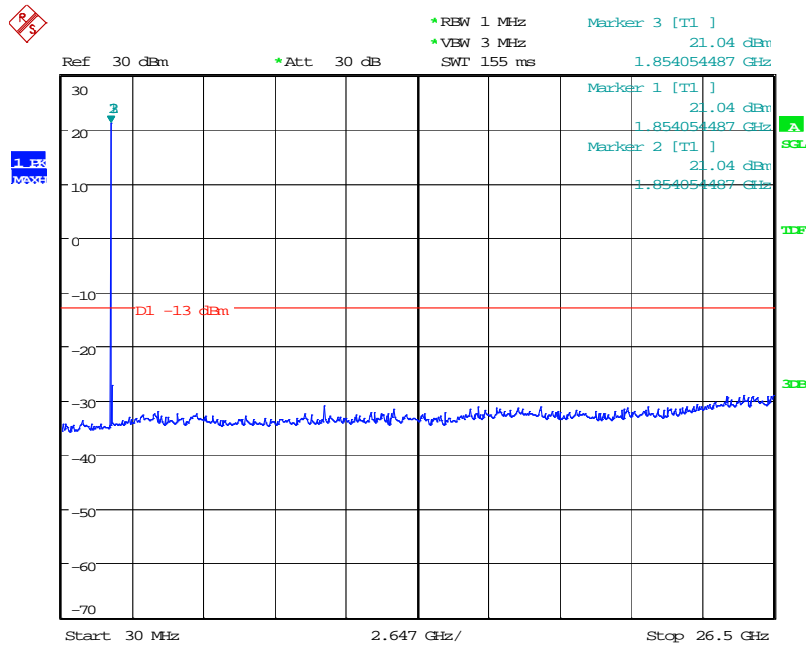
Date: 26.SEP.2016 17:36:09

BW5MHz-1880MHz,Q16-25RB_LOW@Pass

		*RBW 1 MHz	Marker 3 [T1]	
		*VBW 3 MHz	20.57 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	1.854054487 GHz	

Marker 1 [T1]
20.57 dBm
1.854054487 GHz
Marker 2 [T1]
20.57 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 17:36:43

Report No.: FCC16093968A-5
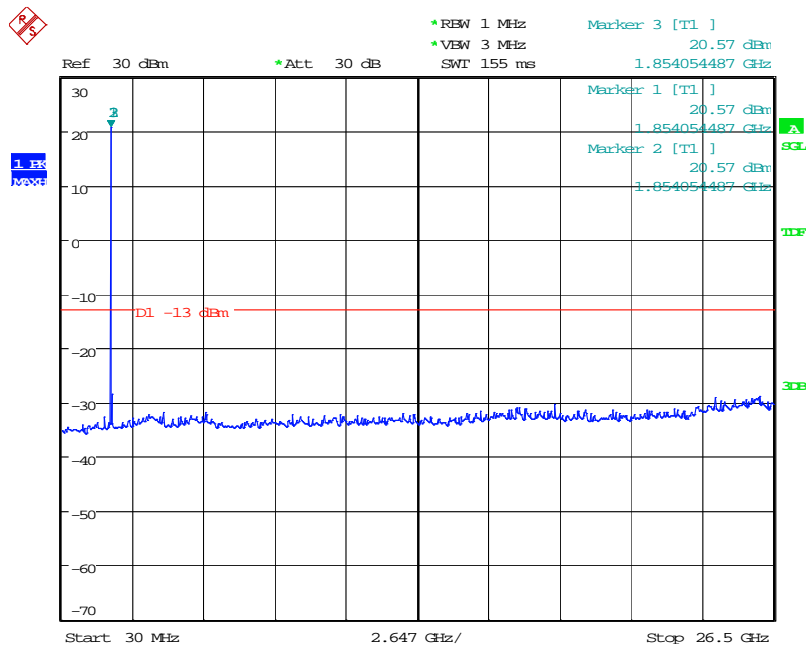
BW5MHz-1907.5MHz,QPSK-25RB_LOW@Pass
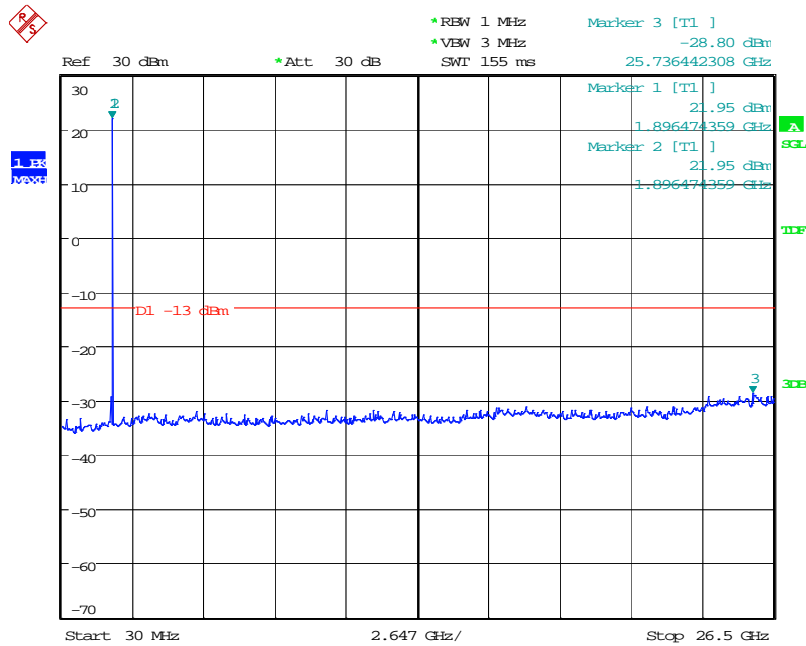
Date: 26.SEP.2016 17:34:13

BW5MHz-1907.5MHz,Q16-25RB_LOW@Pass

Date: 26.SEP.2016 17:35:26

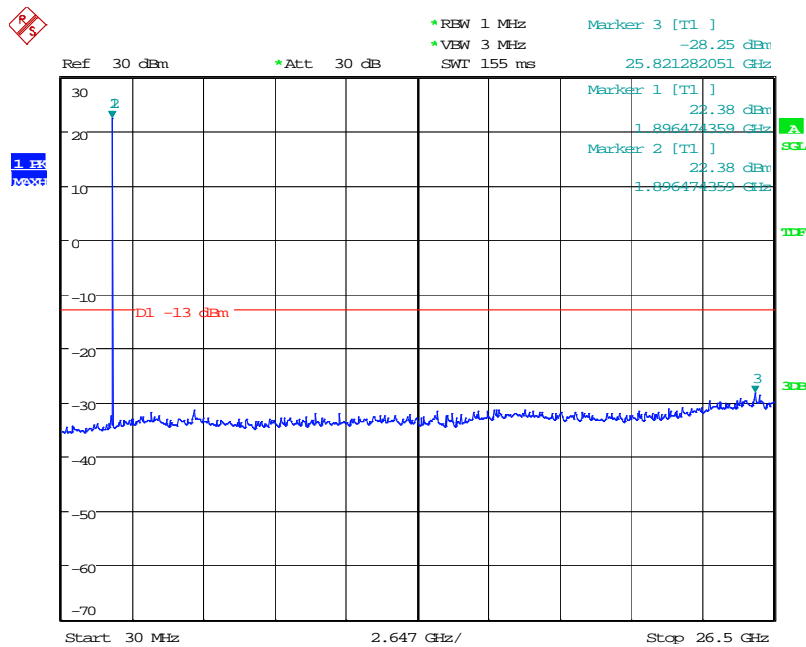*Report No.:* FCC16093968A-5

BW10MHz-1855MHz,QPSK-50RB_LOW@Pass


```
                                    *RBW 1 MHz        Marker 3 [T1 ]
                                    *VBW 3 MHz                   -28.15 dBm
Ref   30 dBm          *Att   30 dB   SWT 155 ms        25.948541667 GHz
                                                      Marker 1 [T1 ]
                                                              20.52 dBm
                                                        1.854054487 GHz
                                                      Marker 2 [T1 ]
                                                              20.52 dBm
                                                        1.054054407 GHz
```

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
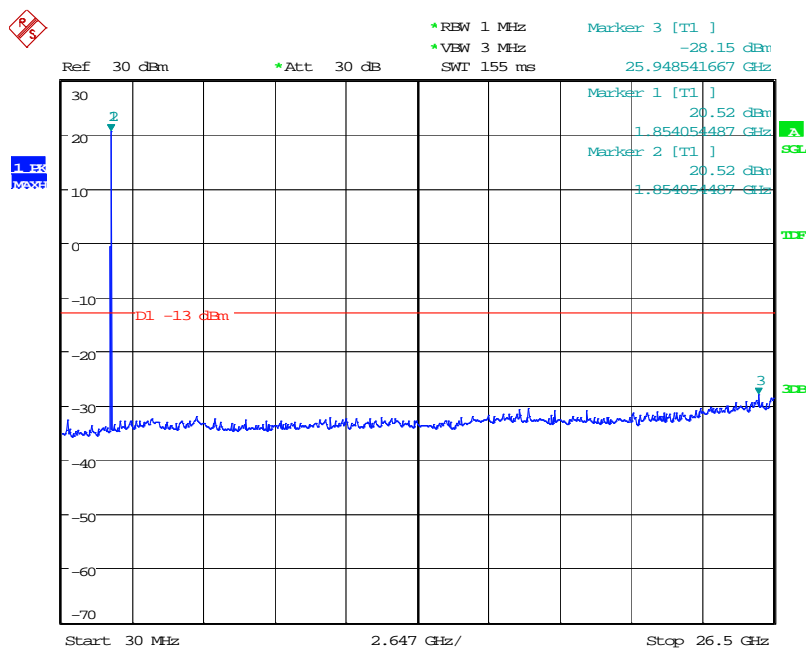
Date: 26.SEP.2016 17:37:51

BW10MHz-1855MHz,Q16-50RB_LOW@Pass


```
                                    *RBW 1 MHz        Marker 3 [T1 ]
                                    *VBW 3 MHz                   21.02 dBm
Ref   30 dBm          *Att   30 dB   SWT 155 ms        1.854054487 GHz
                                                      Marker 1 [T1 ]
                                                              21.02 dBm
                                                        1.854054487 GHz
                                                      Marker 2 [T1 ]
                                                              21.02 dBm
                                                        1.054054407 GHz
```

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 17:39:05
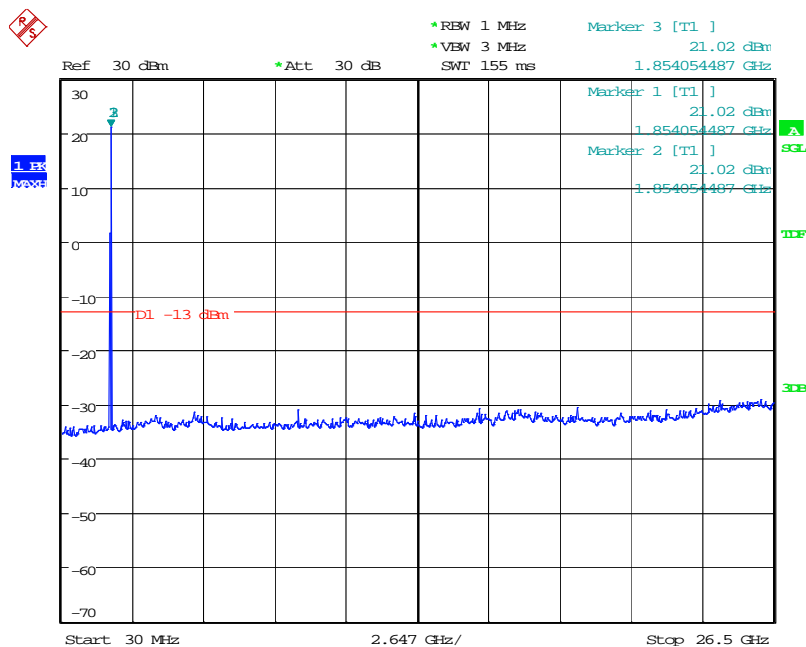
Report No.: FCC16093968A-5

BW10MHz-1880MHz,QPSK-50RB_LOW@Pass
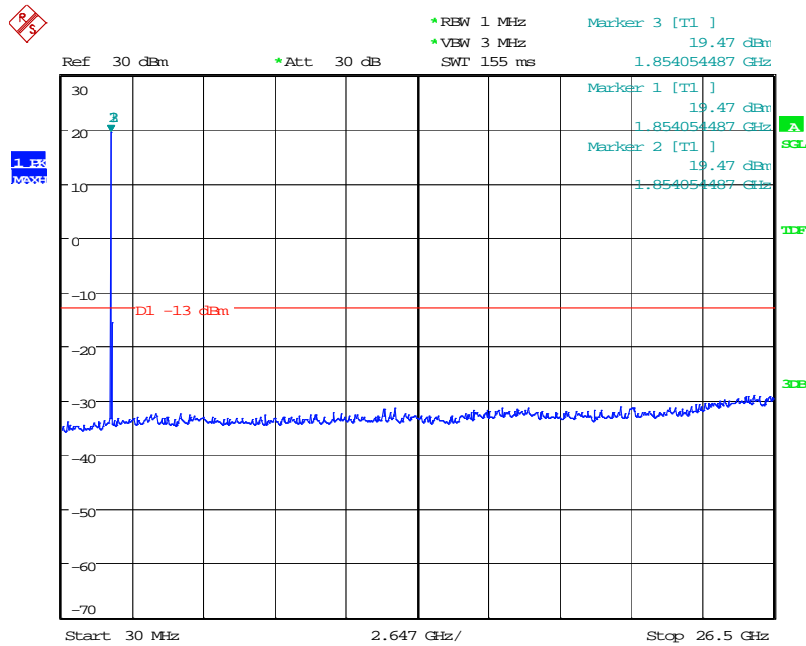
Date: 26.SEP.2016 17:42:28

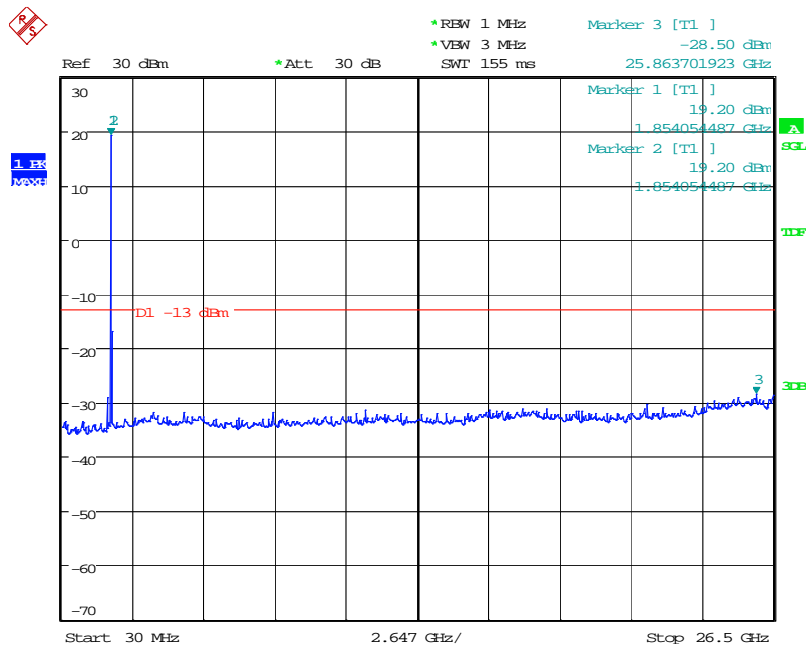*BW10MHz-1880MHz,Q16-50RB_LOW@Pass*

Date: 26.SEP.2016 17:43:02

Report No.: FCC16093968A-5

BW10MHz-1905MHz,QPSK-50RB_LOW@Pass

```
                                    *RBW 1 MHz        Marker 3 [T1 ]
                                    *VBW 3 MHz                -28.86 dBm
     Ref   30 dBm        *Att  30 dB   SWT 155 ms     25.778862179 GHz
```
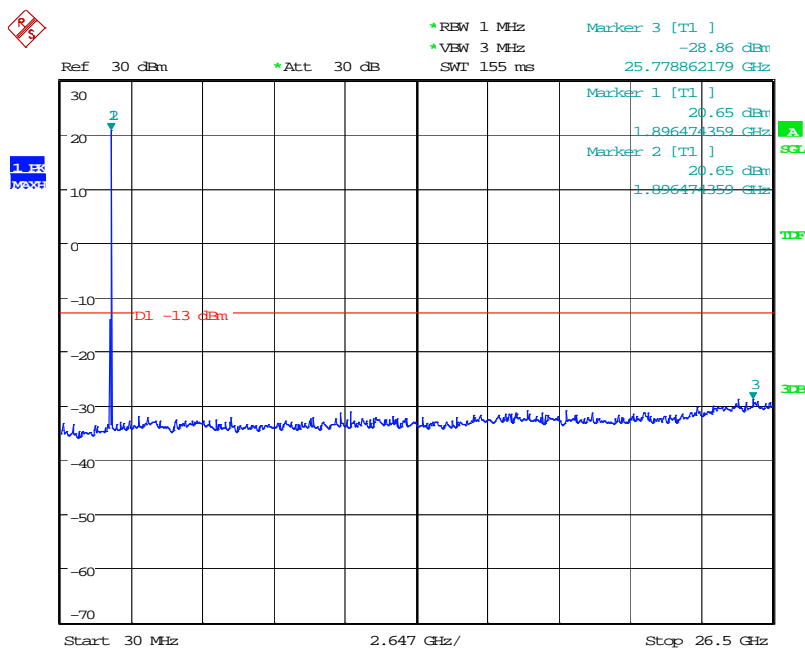


```
Date: 26.SEP.2016  17:40:24
```

BW10MHz-1905MHz,Q16-50RB_LOW@Pass

```
                                    *RBW 1 MHz        Marker 3 [T1 ]
                                    *VBW 3 MHz                -28.86 dBm
     Ref   30 dBm        *Att  30 dB   SWT 155 ms     25.778862179 GHz
```



```
Date: 26.SEP.2016  17:40:24
```

Report No.: FCC16093968A-5
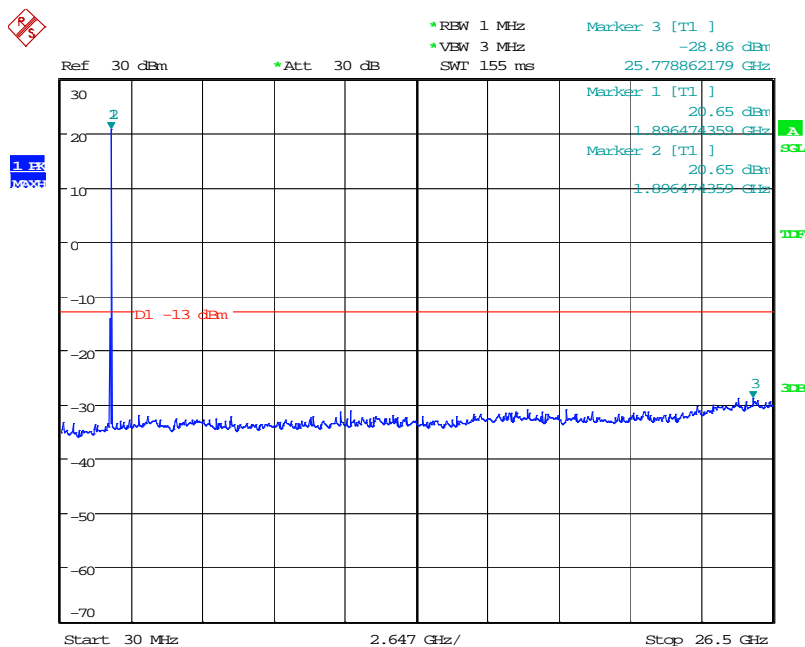
BW15MHz-1857.5MHz,QPSK-75RB_LOW@Pass


```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                 19.35 dBm
     Ref   30 dBm        *Att  30 dB    SWT  155 ms         1.854054487 GHz
                                                   Marker 1 [T1 ]
      30                                                     19.35 dBm
                                                       1.854054487 GHz
      20                                            Marker 2 [T1 ]
                                                             19.35 dBm
      10                                               1.054054407 GHz

       0

     -10     D1 -13 dBm

     -20

     -30

     -40

     -50

     -60

     -70
     Start  30 MHz        2.647 GHz/           Stop  26.5 GHz
```
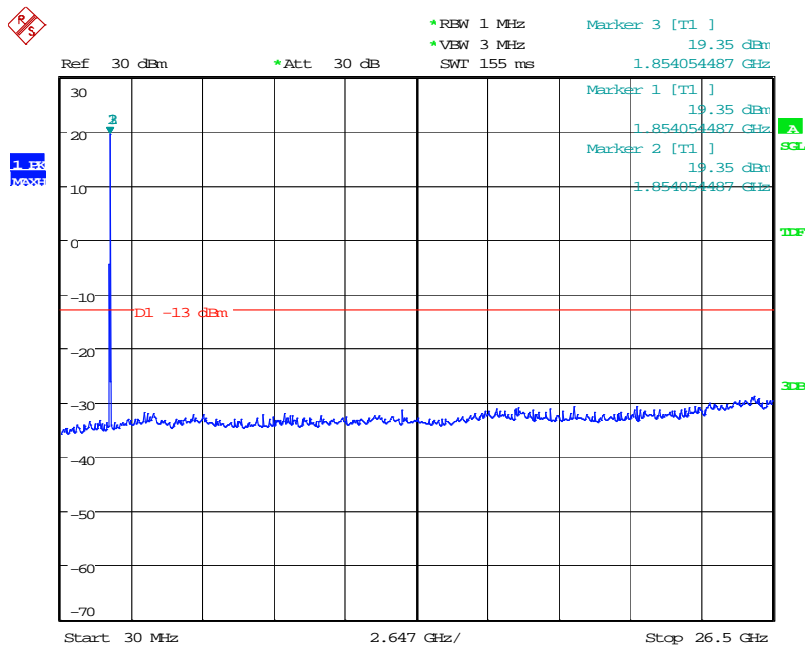
Date: 26.SEP.2016 17:43:58

BW15MHz-1857.5MHz,Q16-75RB_LOW@Pass


```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                -28.76 dBm
     Ref   30 dBm        *Att  30 dB    SWT  155 ms        26.415160256 GHz
                                                   Marker 1 [T1 ]
      30                                                     19.15 dBm
                                                       1.854054487 GHz
      20                                            Marker 2 [T1 ]
                                                             19.15 dBm
      10                                               1.054054407 GHz

       0

     -10     D1 -13 dBm

     -20

     -30

     -40

     -50

     -60

     -70
     Start  30 MHz        2.647 GHz/           Stop  26.5 GHz
```

Date: 26.SEP.2016 17:44:55
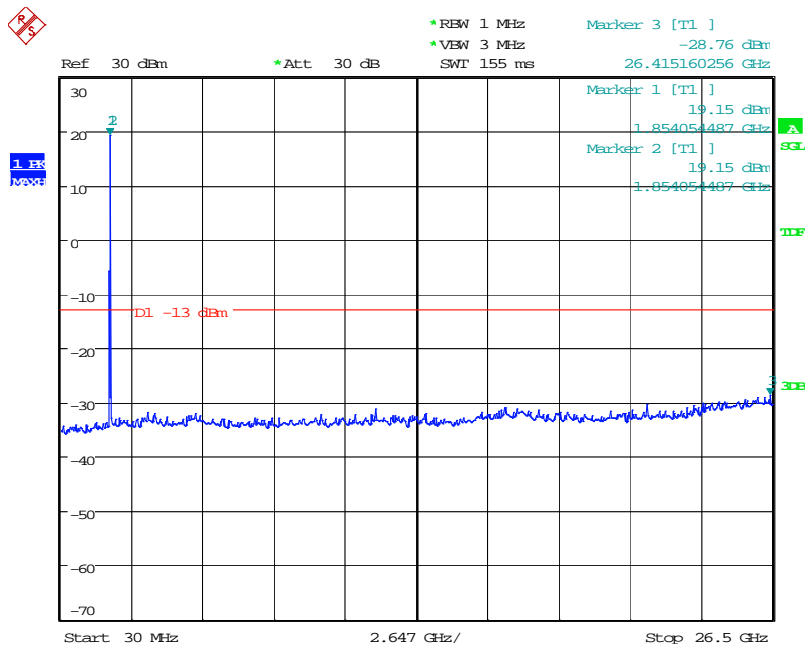
Report No.: FCC16093968A-5

BW15MHz-1880MHz,QPSK-75RB_LOW@Pass
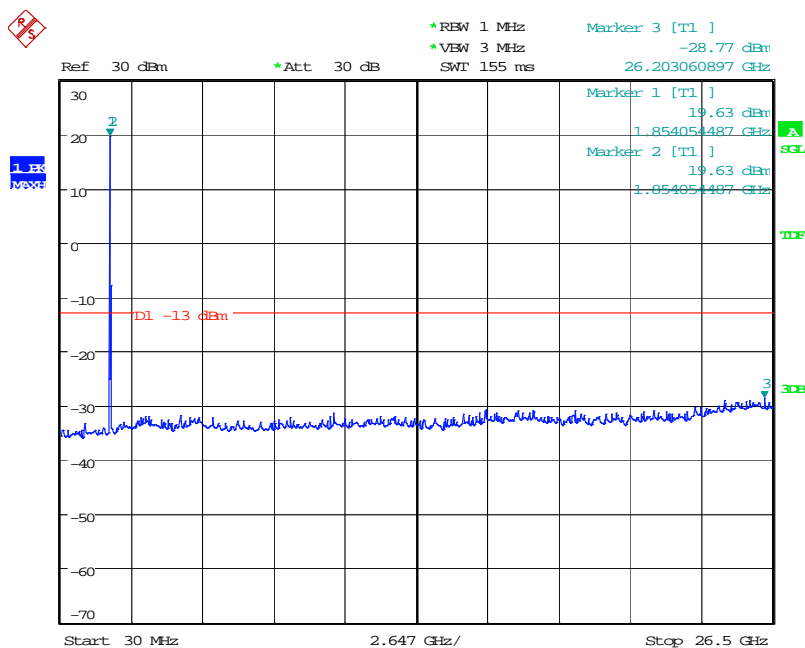
Date: 26.SEP.2016 17:47:02

BW15MHz-1880MHz,Q16-75RB_LOW@Pass

Date: 26.SEP.2016 17:47:31

Report No.: FCC16093968A-5
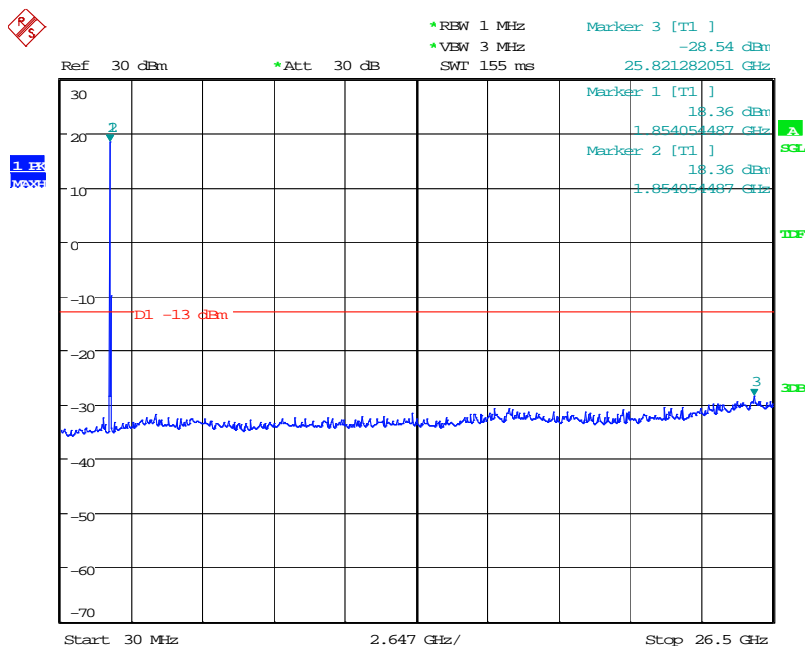
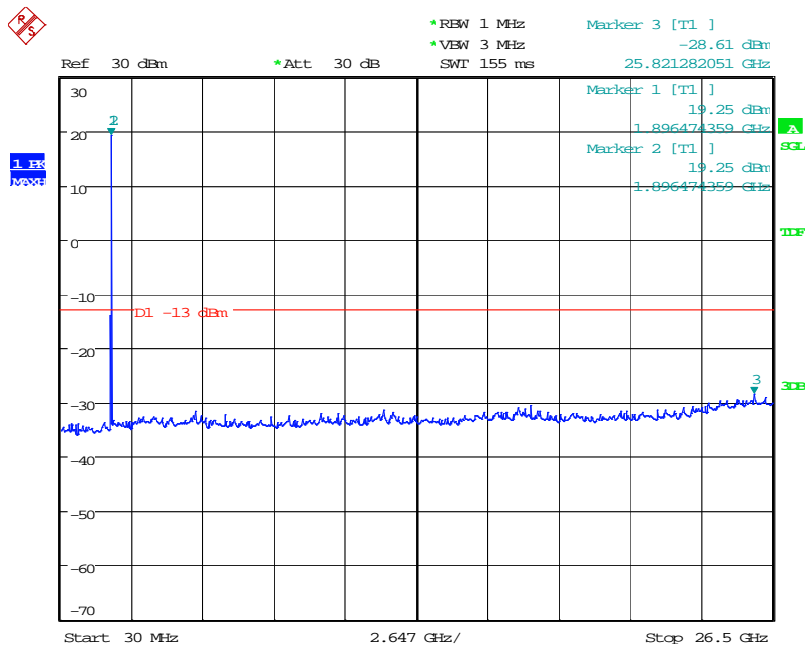## BW15MHz-1902.5MHz,QPSK-75RB_LOW@Pass
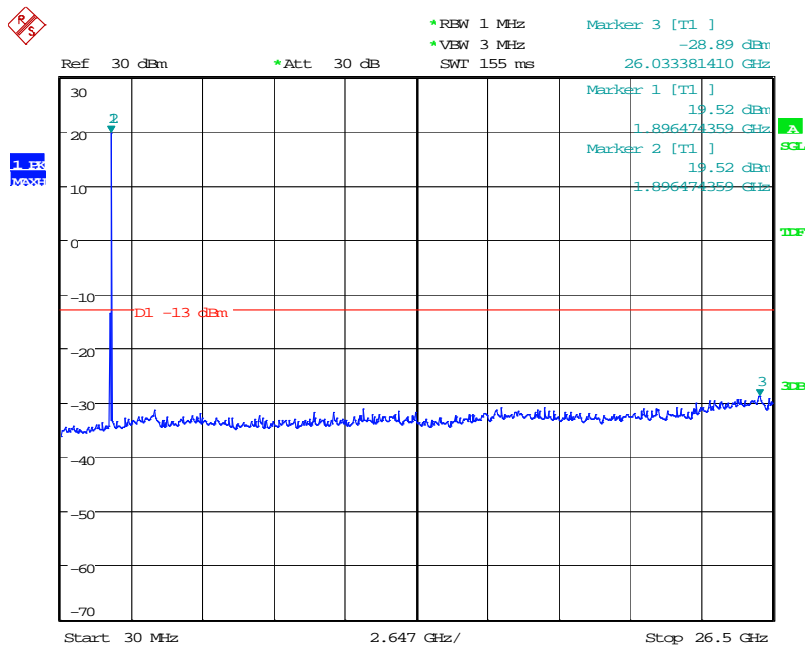
Date: 26.SEP.2016 17:45:45

BW15MHz-1902.5MHz,Q16-75RB_LOW@Pass

Date: 26.SEP.2016 17:46:30

Report No.: FCC16093968A-5

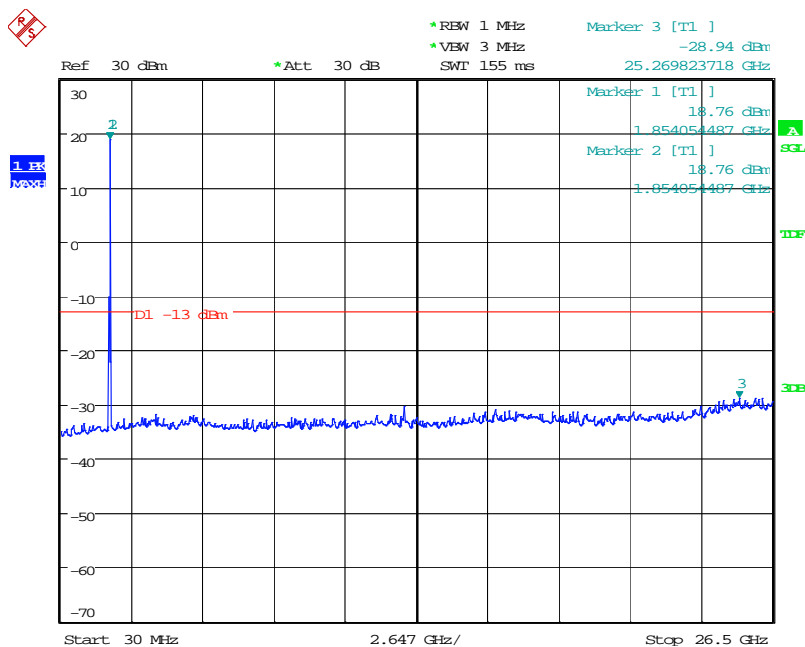### BW20MHz-1860MHz,QPSK-100RB_LOW @Pass
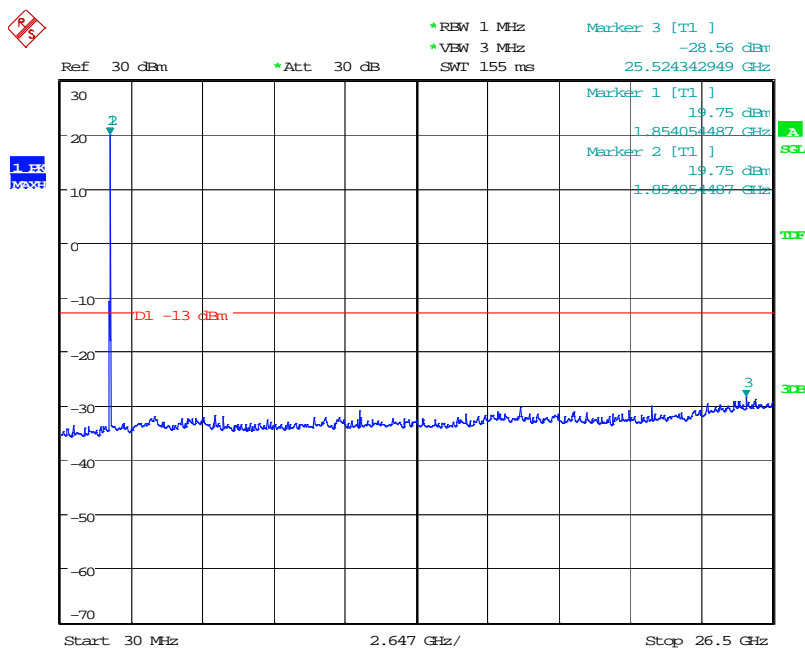
Date: 26.SEP.2016 17:48:14

BW20MHz-1860MHz,Q16-100RB_LOW @Pass

Date: 26.SEP.2016 17:48:59

Report No.: FCC16093968A-5

BW20MHz-1880MHz,QPSK-100RB_LOW@Pass
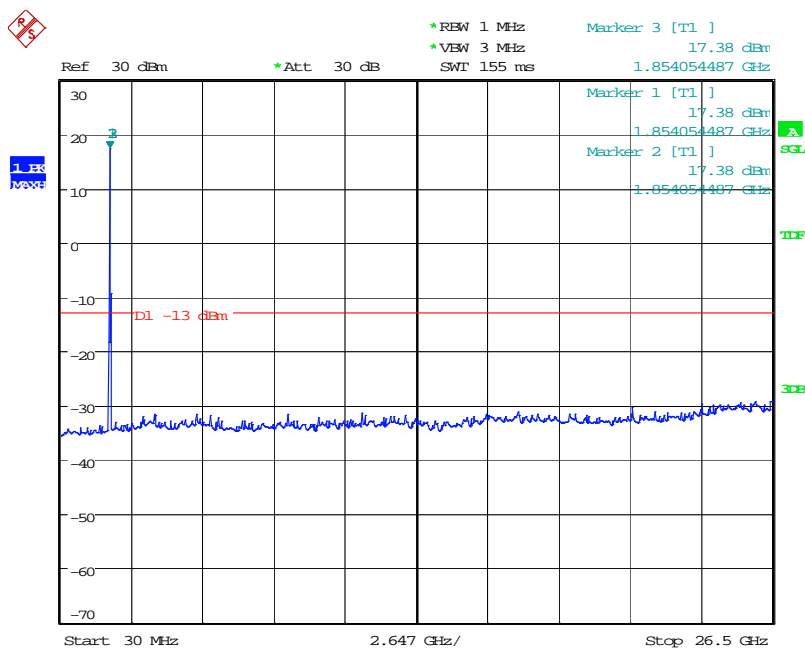
Date: 26.SEP.2016 17:51:11

BW20MHz-1880MHz,Q16-100RB_LOW@Pass

Date: 26.SEP.2016 17:51:40

Report No.: FCC16093968A-5
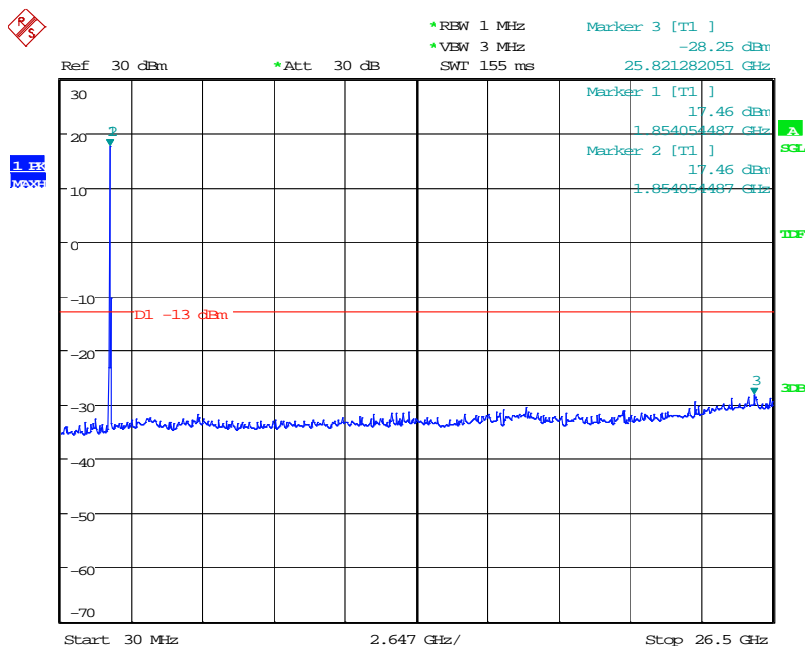
BW20MHz-1900MHz,QPSK-100RB_LOW @Pass

```
                                      *RBW  1 MHz      Marker 3 [T1 ]
                                      *VBW  3 MHz              19.16 dBm
        Ref    30 dBm       *Att  30 dB     SWT  155 ms        1.896474359 GHz
```



```
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```
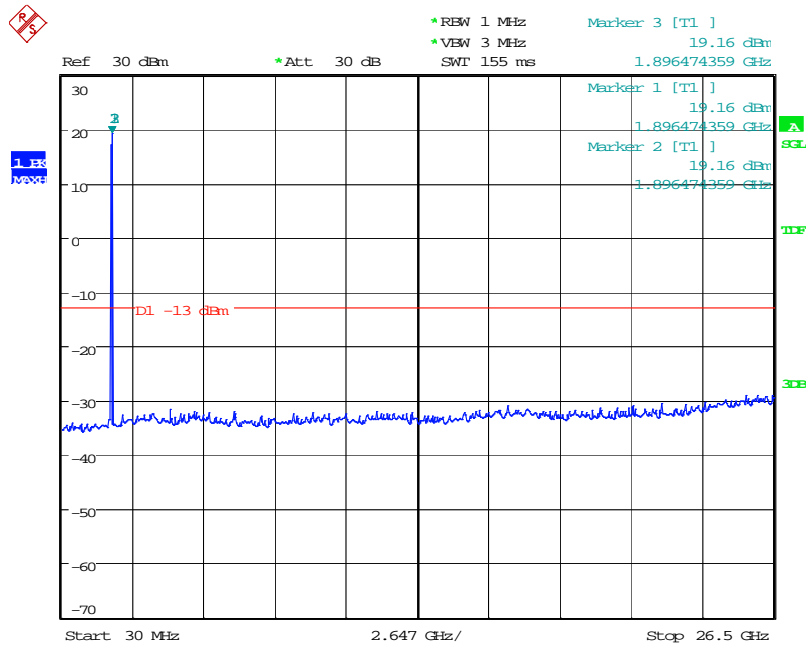
Date: 26.SEP.2016 17:49:47

BW20MHz-1900MHz,Q16-100RB_LOW @Pass

```
                                      *RBW  1 MHz      Marker 3 [T1 ]
                                      *VBW  3 MHz             -27.59 dBm
        Ref    30 dBm       *Att  30 dB     SWT  155 ms        25.906121795 GHz
```



```
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 26.SEP.2016 17:50:39

Report No.: FCC16093968A-5
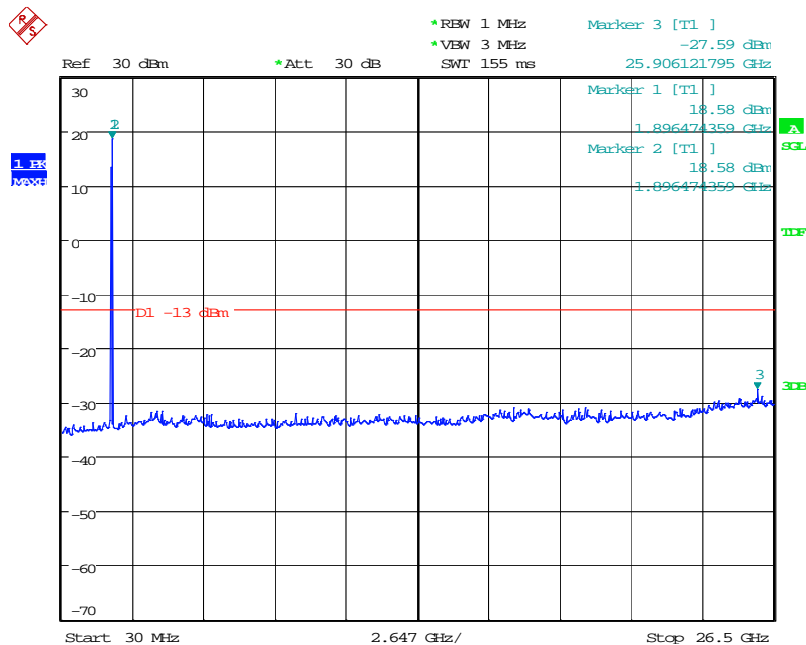
BAND 4@Conducted Spurious Emission

BW1.4MHz-1710.7MHz,QPSK-6RB_LOW@Pass
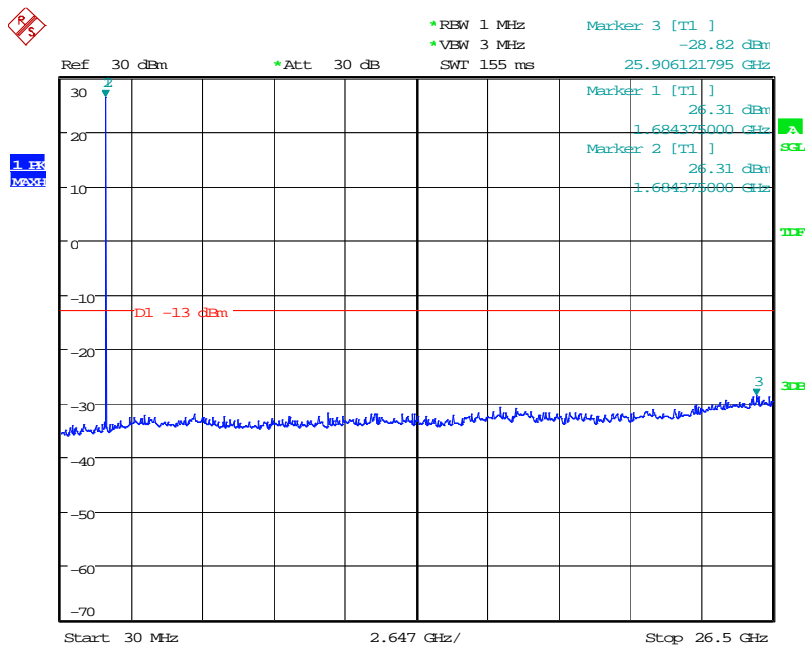
Date: 26.SEP.2016 17:54:28

BW1.4MHz-1710.7MHz,Q16-6RB_LOW@Pass

Date: 26.SEP.2016 17:56:04

Report No.: FCC16093968A-5

BW1.4MHz-1754.3MHz,QPSK-6RB_LOW@Pass
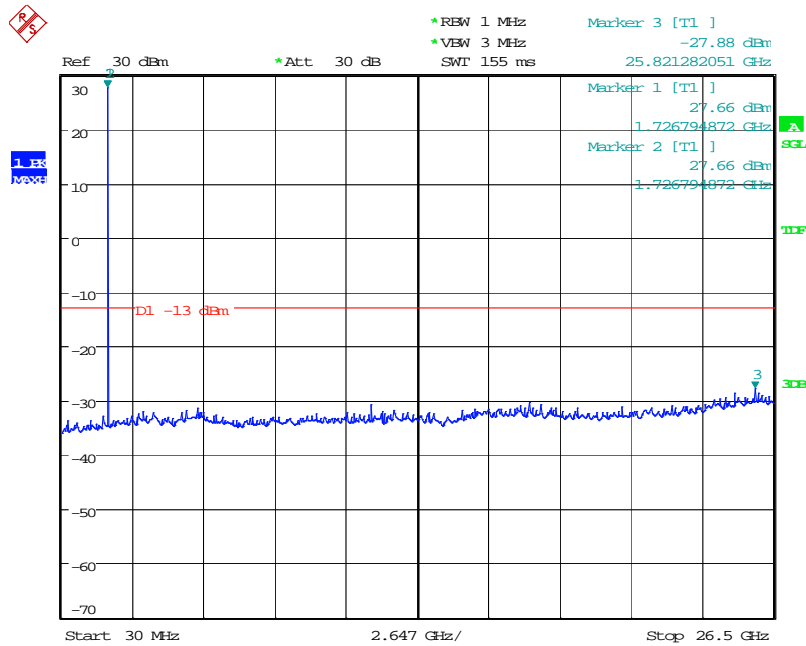
Date: 26.SEP.2016 17:57:25

BW1.4MHz-1754.3MHz,Q16-6RB_LOW@Pass

Date: 26.SEP.2016 17:58:45

Report No.: FCC16093968A-5
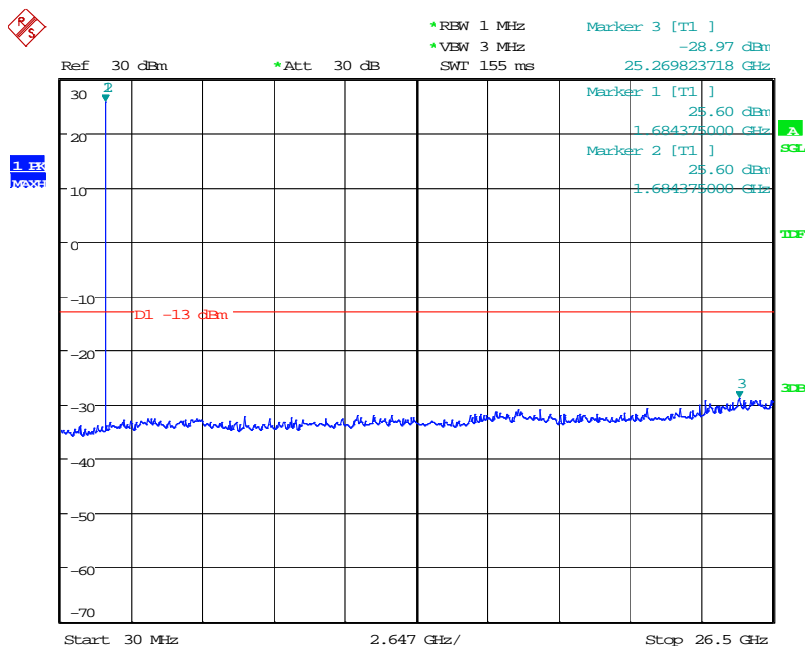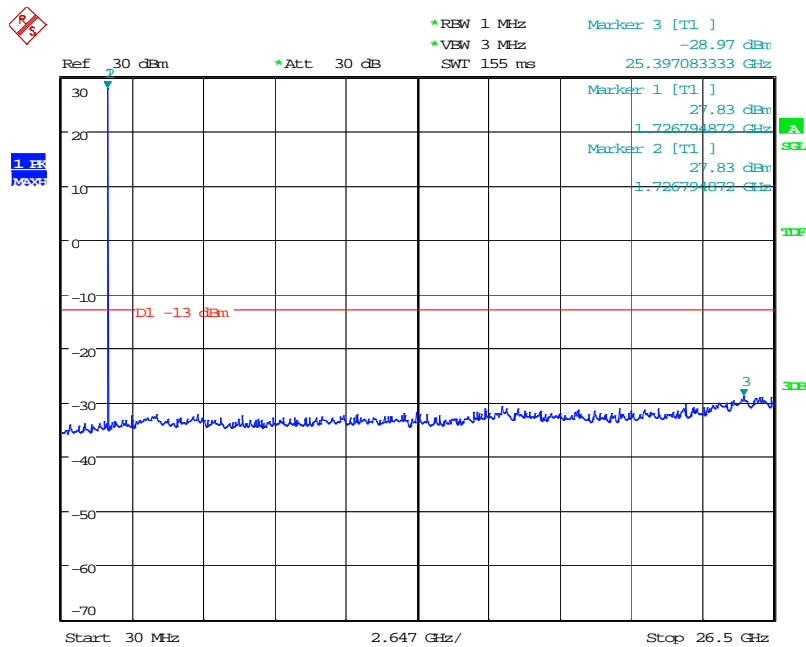
BW1.4MHz-1732.5MHz,QPSK-6RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                -28.63 dBm
          Ref   30 dBm        *Att   30 dB    SWT  155 ms     25.948541667 GHz
                                                   Marker 1 [T1 ]
           30                                             26.86 dBm
                                                        1.726794872 GHz    A
           20                                                              SGL
    1 PK                                             Marker 2 [T1 ]
    MAX                                                    26.86 dBm
           10                                           1.726794872 GHz
                                                                           TDF
            0

          -10
              D1 -13 dBm

          -20
                                                                        3DB
                                                                     3
          -30

          -40

          -50

          -60

          -70
          Start  30 MHz          2.647 GHz/          Stop  26.5 GHz
```
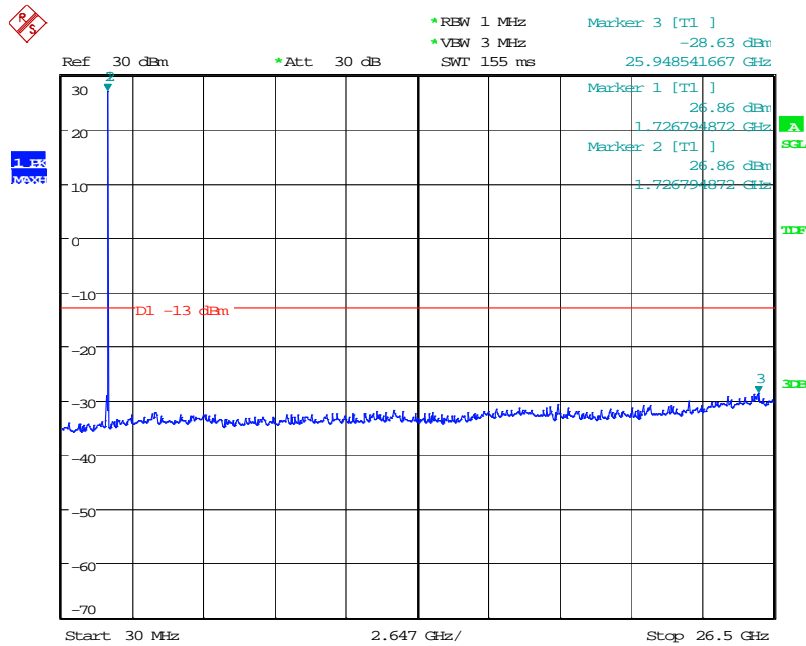
Date: 26.SEP.2016 17:59:34

BW1.4MHz-1732.5MHz,Q16-6RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                -28.59 dBm
          Ref   30 dBm        *Att   30 dB    SWT  155 ms     25.778862179 GHz
                                                   Marker 1 [T1 ]
           30                                             27.08 dBm
                                                        1.726794872 GHz    A
           20                                                              SGL
    1 PK                                             Marker 2 [T1 ]
    MAX                                                    27.08 dBm
           10                                           1.726794872 GHz
                                                                           TDF
            0

          -10
              D1 -13 dBm

          -20
                                                                        3DB
                                                                     3
          -30

          -40

          -50

          -60

          -70
          Start  30 MHz          2.647 GHz/          Stop  26.5 GHz
```

Date: 26.SEP.2016 18:00:14

Report No.: FCC16093968A-5
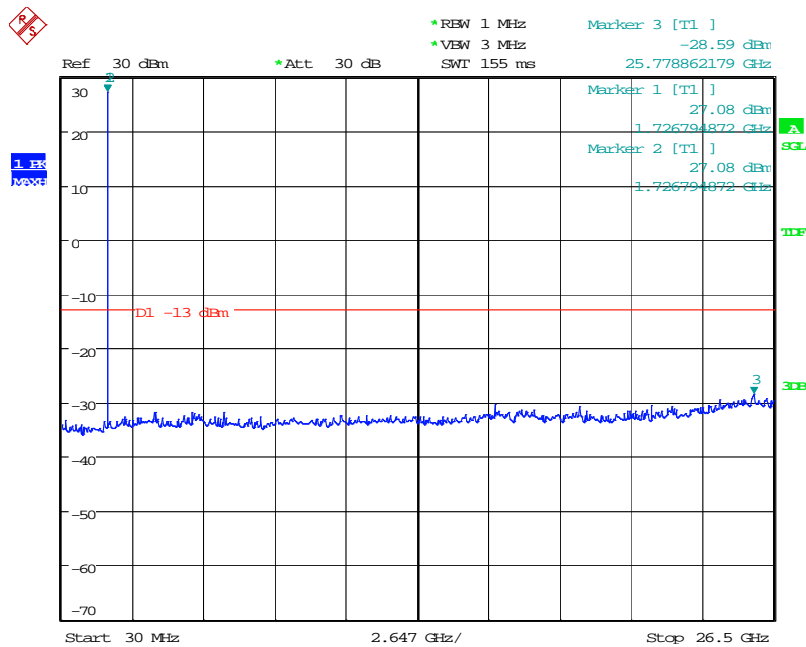
BW3MHz-1711.5MHz,QPSK-15RB_LOW@Pass
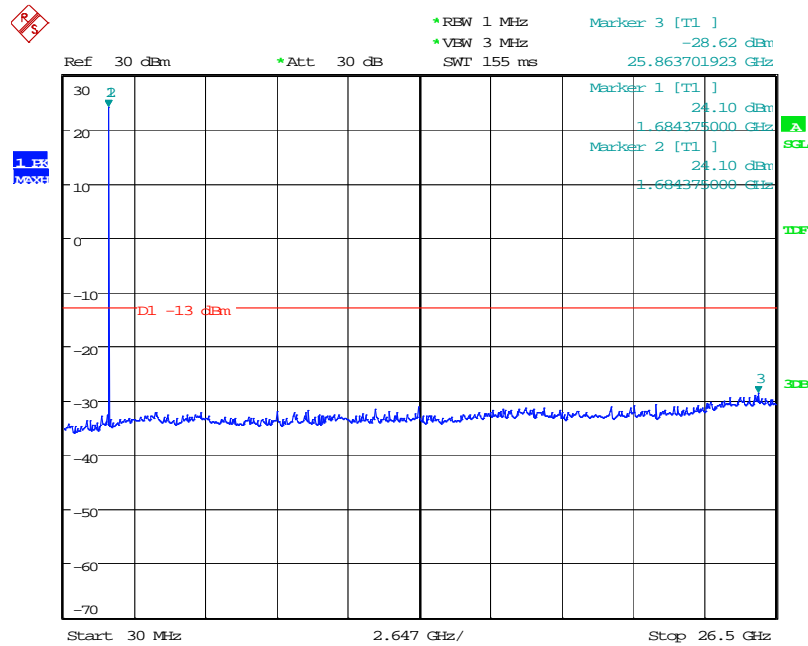
Date: 26.SEP.2016 18:01:27

BW3MHz-1711.5MHz,Q16-15RB_LOW@Pass

Date: 26.SEP.2016 18:02:44

Report No.: FCC16093968A-5
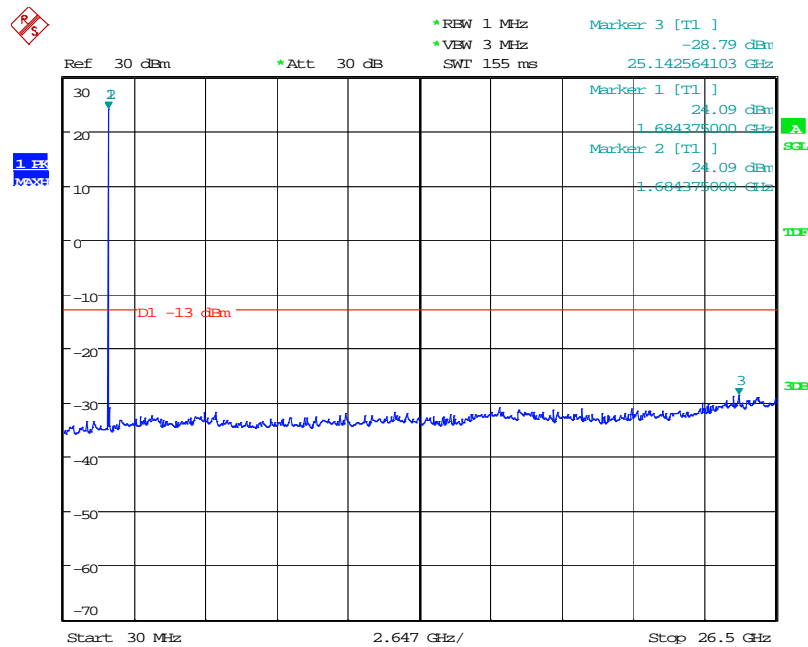
BW3MHz-1753.5MHz,QPSK-15RB_LOW@Pass
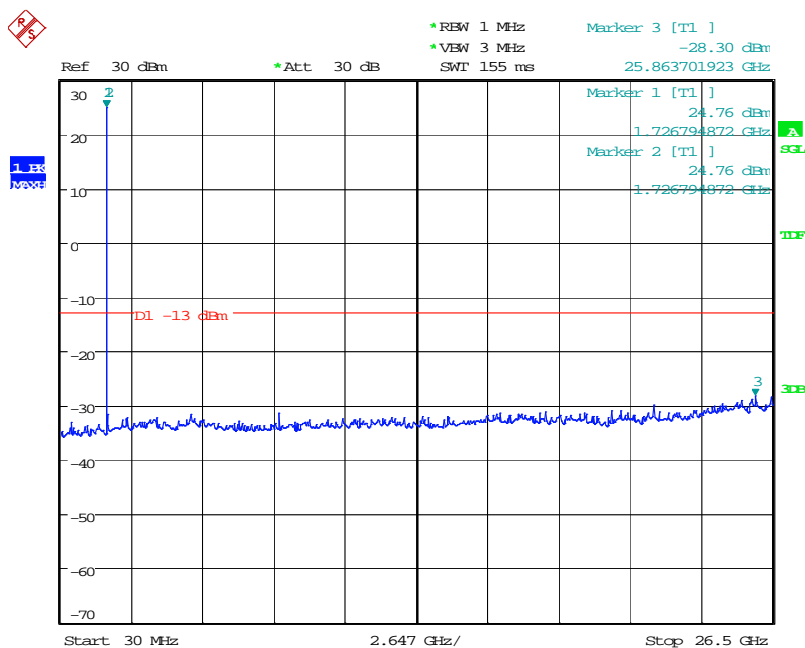
Date: 26.SEP.2016 18:03:45

BW3MHz-1753.5MHz,Q16-15RB_LOW@Pass

Date: 26.SEP.2016 18:04:43

Report No.: FCC16093968A-5
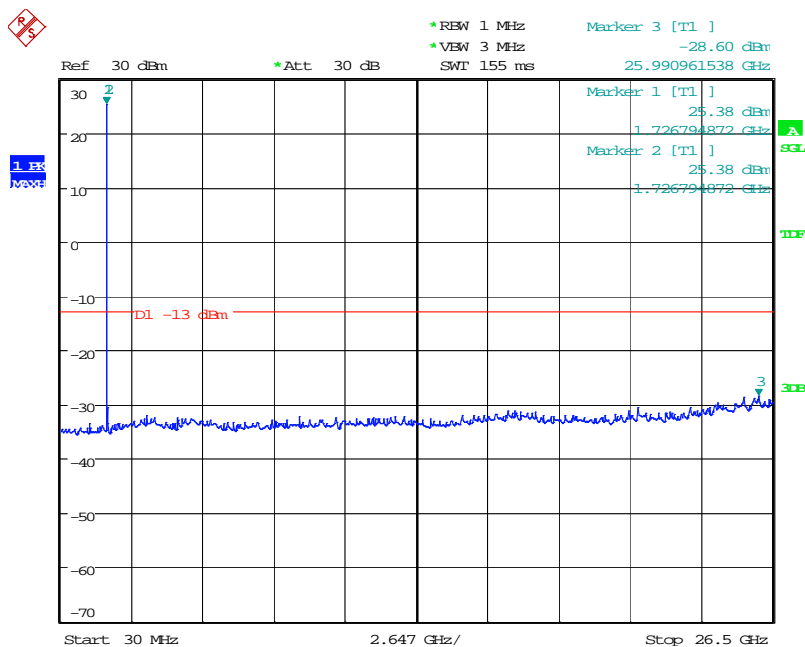
BW3MHz-1732.5MHz,QPSK-15RB_LOW@Pass
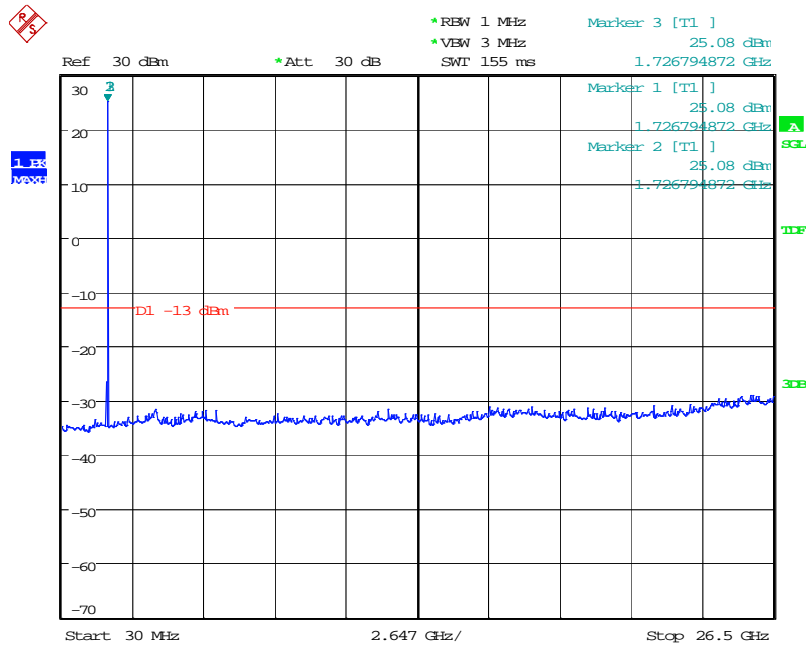
Date: 26.SEP.2016 18:05:22

BW3MHz-1732.5MHz,Q16-15RB_LOW@Pass

Date: 26.SEP.2016 18:05:54

Report No.: FCC16093968A-5
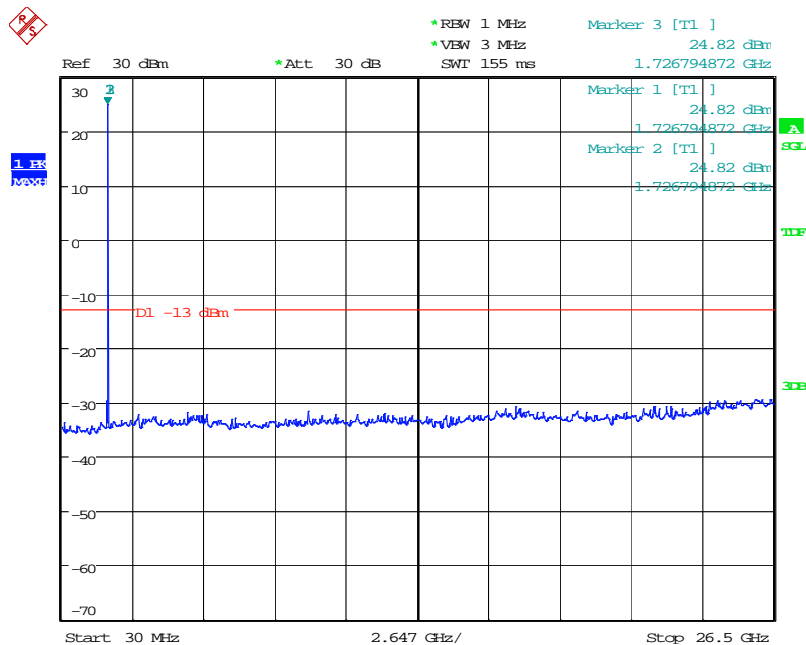
BW5MHz-1712.5MHz,QPSK-25RB_LOW@Pass

			*RBW 1 MHz	Marker 3 [T1]
			*VBW 3 MHz	−28.89 dBm
Ref 30 dBm		*Att 30 dB	SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
23.42 dBm
1.684375000 GHz

Marker 2 [T1]
23.42 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
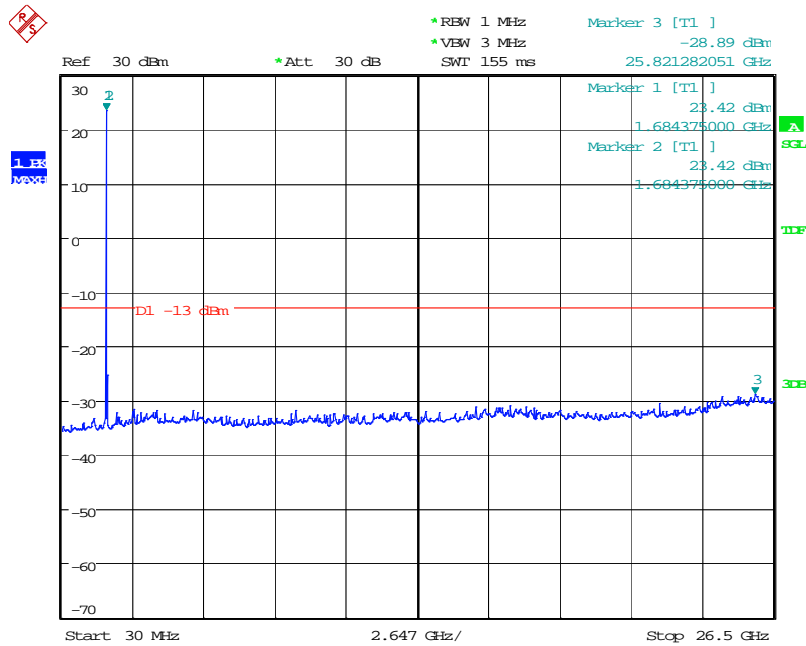
Date: 26.SEP.2016 18:07:11

BW5MHz-1712.5MHz,Q16-25RB_LOW@Pass

			*RBW 1 MHz	Marker 3 [T1]
			*VBW 3 MHz	−28.23 dBm
Ref 30 dBm		*Att 30 dB	SWT 155 ms	26.075801282 GHz

Marker 1 [T1]
22.78 dBm
1.684375000 GHz

Marker 2 [T1]
22.78 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
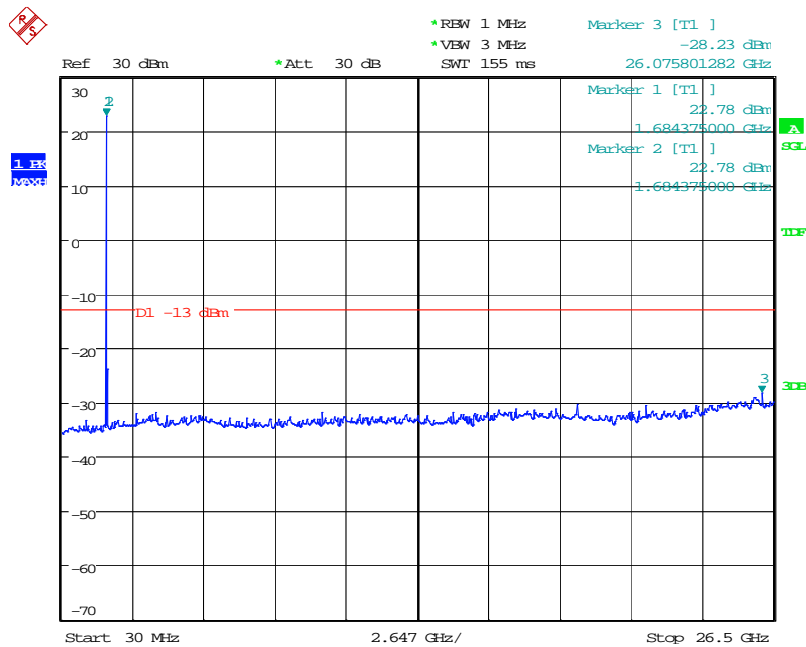
Date: 26.SEP.2016 18:08:34

BW5MHz-1752.5MHz,QPSK-25RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                  -28.12 dBm
        Ref   30 dBm       *Att   30 dB    SWT  155 ms      26.075801282 GHz
                                                     Marker 1 [T1 ]
                                                             23.49 dBm
                                                       1.726794872 GHz      A
                                                     Marker 2 [T1 ]        SGL
                                                             23.49 dBm
                                                       1.726794872 GHz
                                                                          TDF
        D1 -13 dBm
                                                                          3DB
```

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
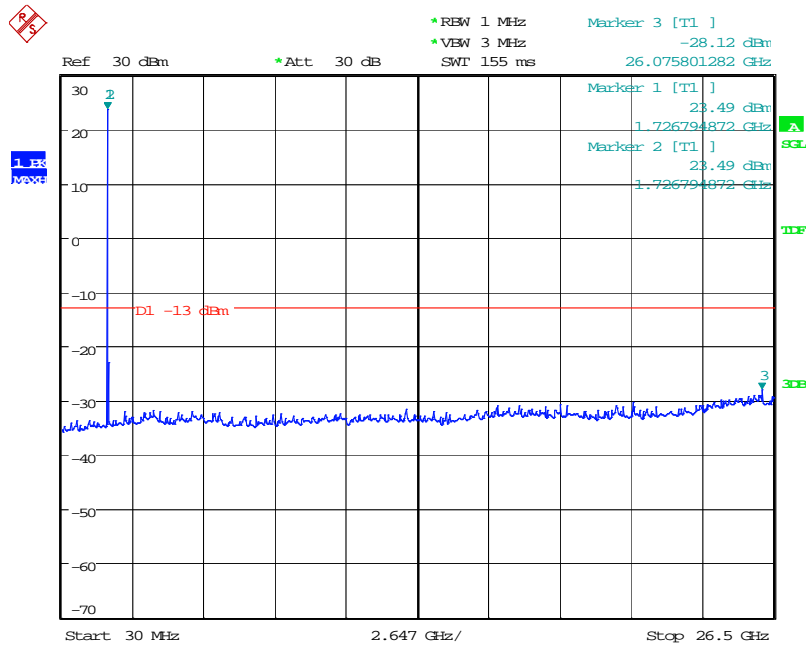
Date: 26.SEP.2016 18:09:49

BW5MHz-1752.5MHz,Q16-25RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                   23.54 dBm
        Ref   30 dBm       *Att   30 dB    SWT  155 ms      1.726794872 GHz
                                                     Marker 1 [T1 ]
                                                             23.54 dBm
                                                       1.726794872 GHz      A
                                                     Marker 2 [T1 ]        SGL
                                                             23.54 dBm
                                                       1.726794872 GHz
                                                                          TDF
        D1 -13 dBm
                                                                          3DB
```

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 18:11:03

Report No.: FCC16093968A-5
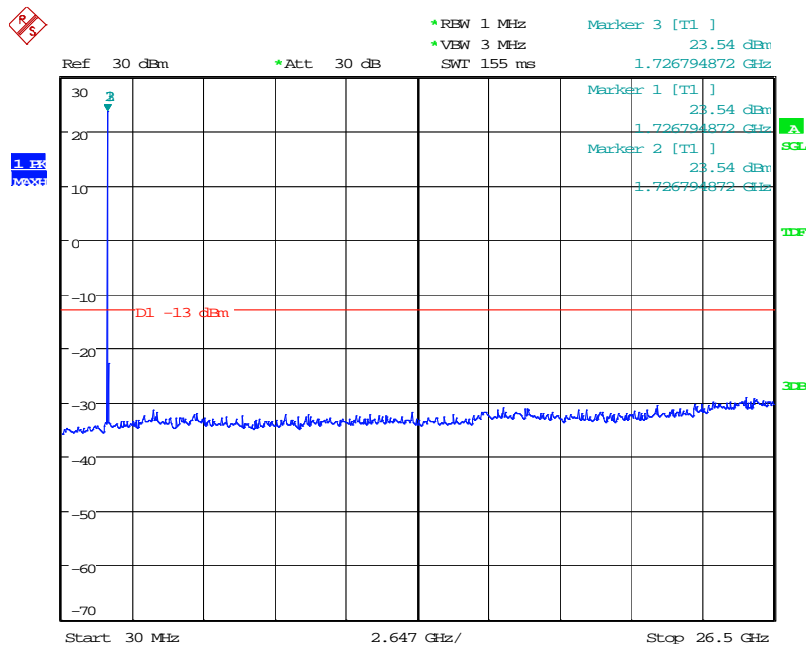
BW5MHz-1732.5MHz,QPSK-25RB_LOW@Pass
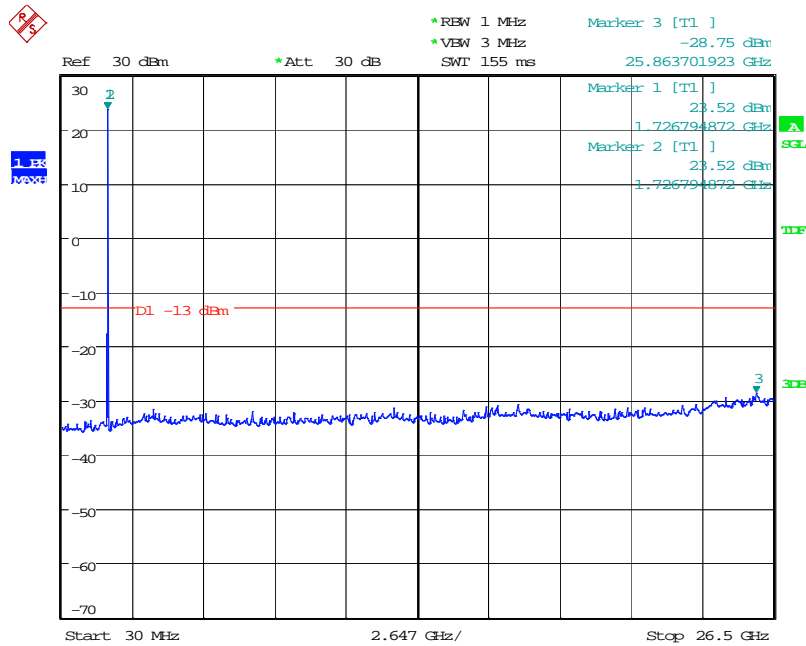
Date: 26.SEP.2016 18:11:45

BW5MHz-1732.5MHz,Q16-25RB_LOW@Pass

Date: 26.SEP.2016 18:12:19

Report No.: FCC16093968A-5
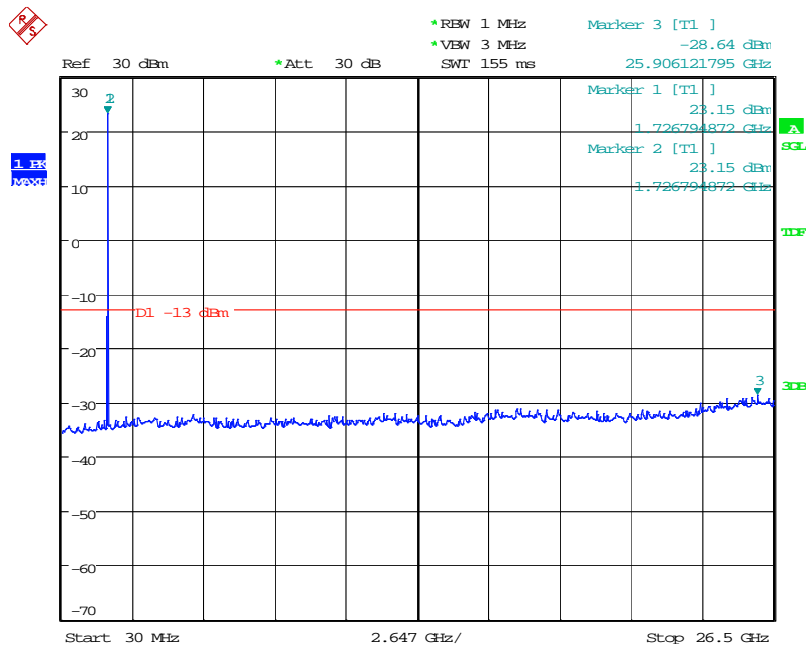
BW10MHz-1715MHz,QPSK-50RB_LOW@Pass
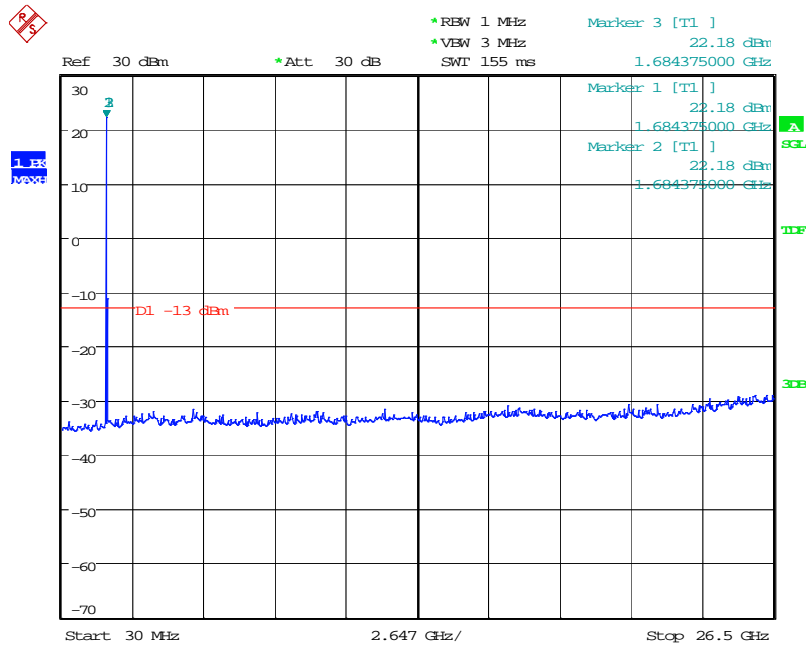
Date: 26.SEP.2016 18:13:26

BW10MHz-1715MHz,Q16-50RB_LOW@Pass

Date: 26.SEP.2016 18:14:41

Report No.: FCC16093968A-5
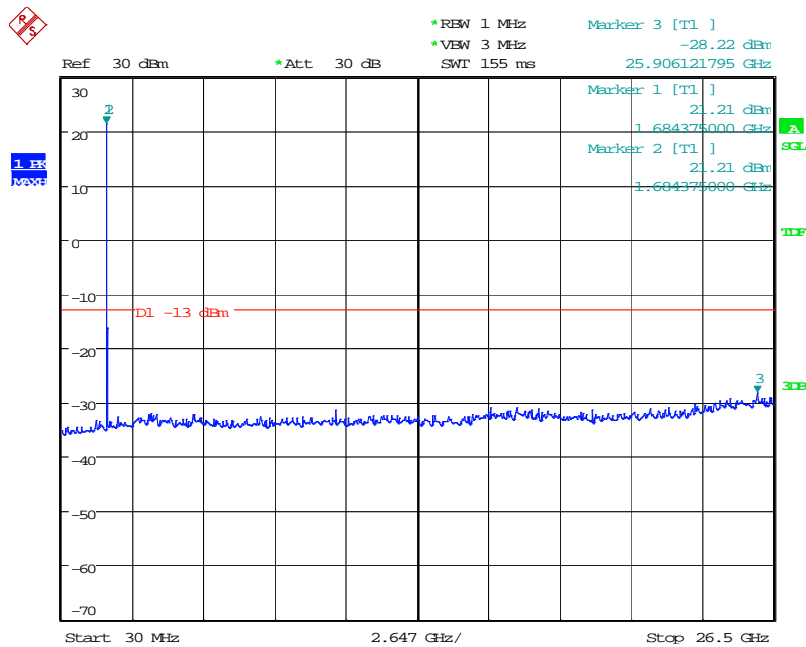
BW10MHz-1750MHz,QPSK-50RB_LOW@Pass
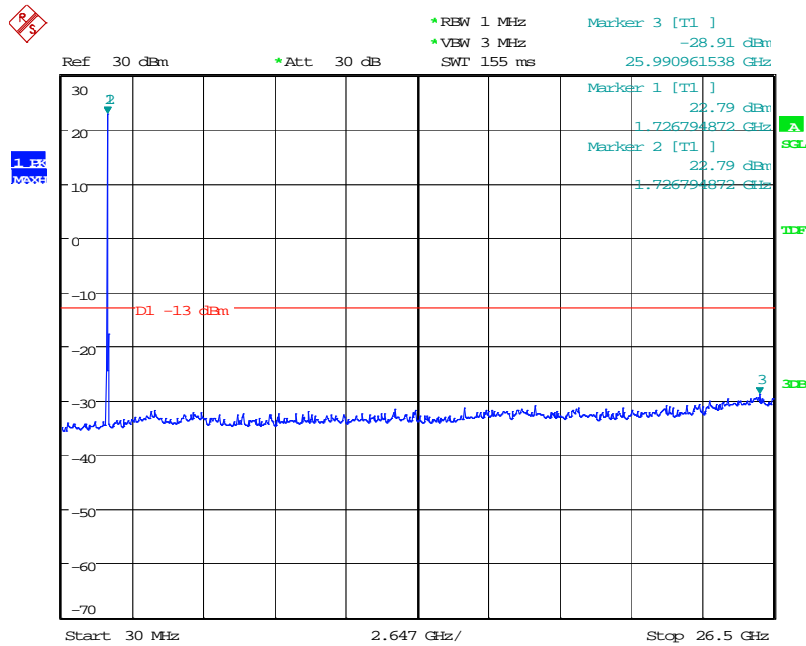
Date: 26.SEP.2016 18:15:56

BW10MHz-1750MHz,Q16-50RB_LOW@Pass

Date: 26.SEP.2016 18:17:12

Report No.: FCC16093968A-5
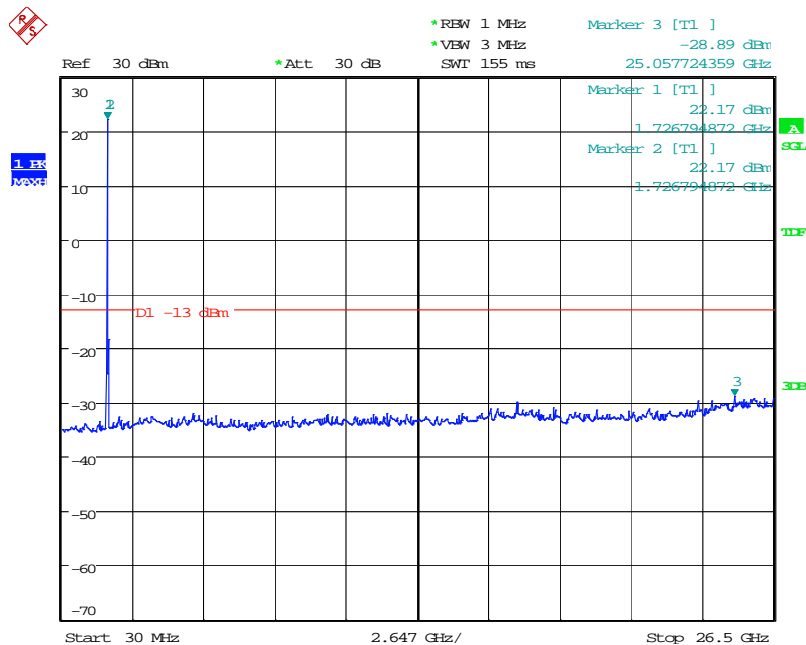
BW10MHz-1732.5MHz,QPSK-50RB_LOW@Pass

		*RBW 1 MHz	Marker 3 [T1]
		*VBW 3 MHz	−28.97 dBm
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.651602564 GHz

Marker 1 [T1]
22.37 dBm
1.726794872 GHz
Marker 2 [T1]
22.37 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
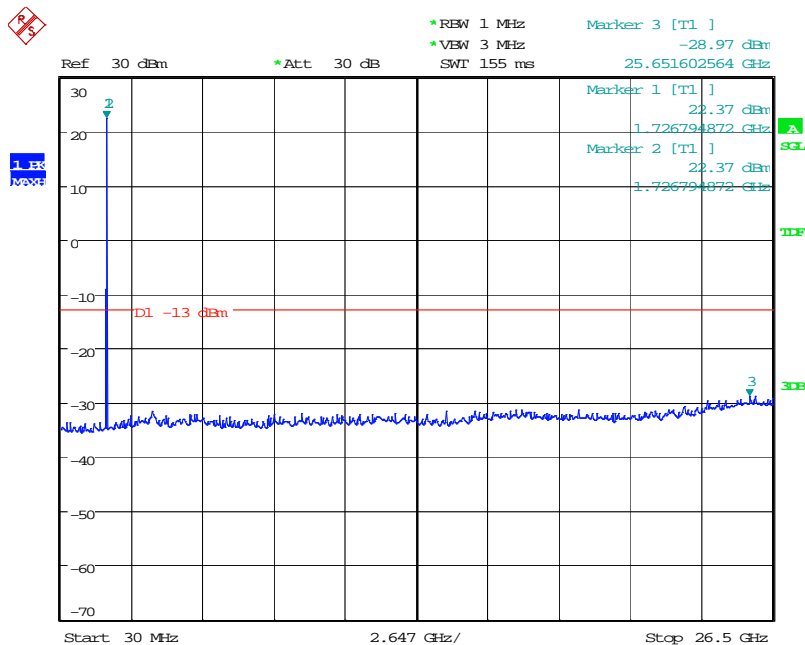
Date: 26.SEP.2016 18:17:55

BW10MHz-1732.5MHz,Q16-50RB_LOW@Pass

		*RBW 1 MHz	Marker 3 [T1]
		*VBW 3 MHz	−28.81 dBm
Ref 30 dBm	*Att 30 dB	SWT 155 ms	26.330320513 GHz

Marker 1 [T1]
21.91 dBm
1.726794872 GHz
Marker 2 [T1]
21.91 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 18:18:29

Report No.: FCC16093968A-5
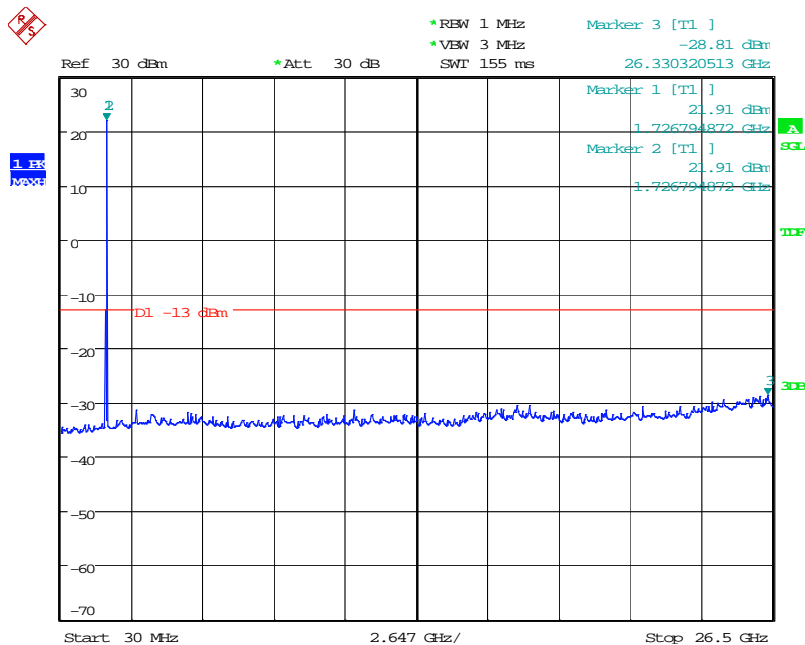
BW15MHz-1717.5MHz,QPSK-75RB_LOW@Pass
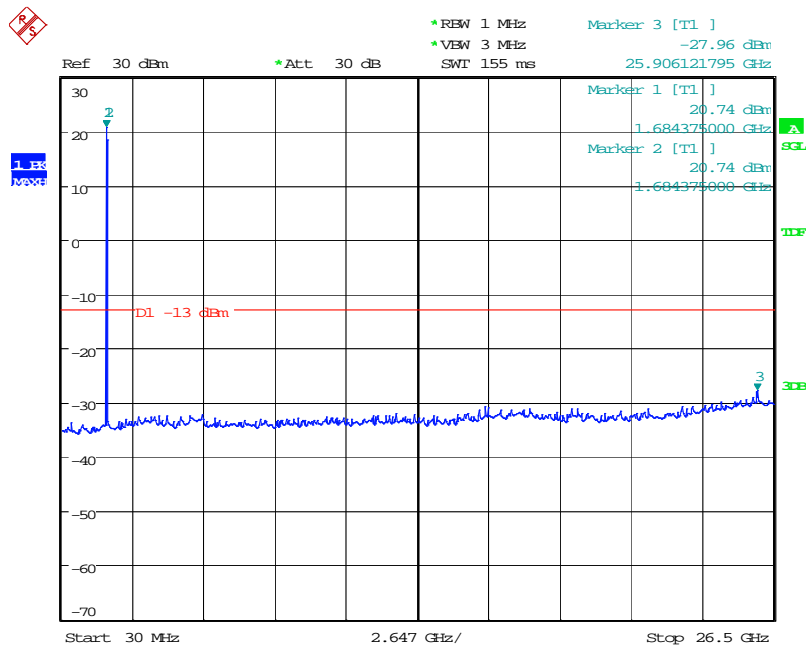
Date: 26.SEP.2016 18:19:24

BW15MHz-1717.5MHz,Q16-75RB_LOW@Pass

Date: 26.SEP.2016 18:20:22

Report No.: FCC16093968A-5

BW15MHz-1747.5MHz,QPSK-75RB_LOW@Pass


```
                                        *RBW 1 MHz        Marker 3 [T1 ]
                                        *VBW 3 MHz                    -28.85 dBm
         Ref   30 dBm        *Att   30 dB    SWT 155 ms       25.821282051 GHz
                                                       Marker 1 [T1 ]
          30                                                         22.87 dBm
                                                             1.726794872 GHz      A
                                                       Marker 2 [T1 ]             SGL
          20                                                         22.87 dBm
                                                             1.726794872 GHz
    1 PK
    MAXH   10                                                                     TDF

           0

         -10    D1 -13 dBm

         -20
                                                                                 3DB
                                                                            3
         -30

         -40

         -50

         -60

         -70
         Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```
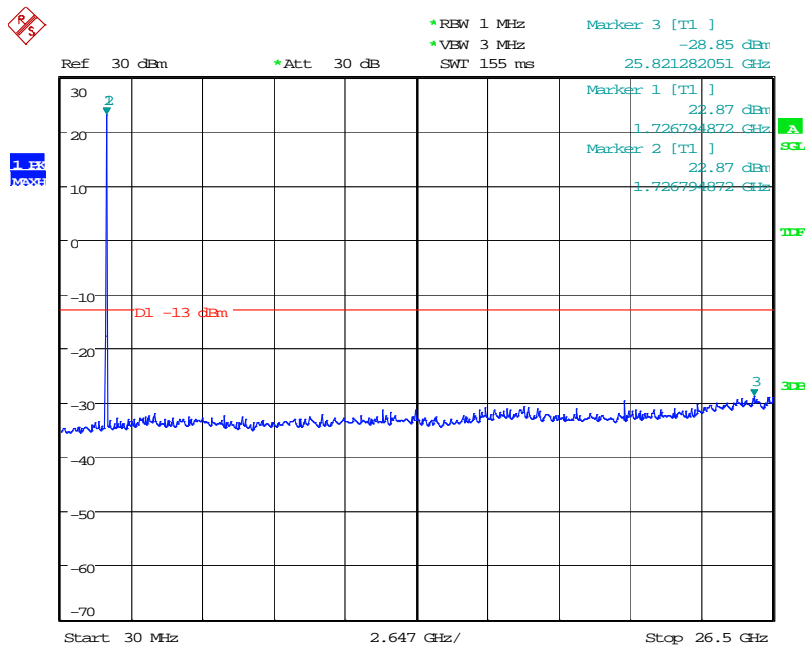
Date: 26.SEP.2016 18:21:20

BW15MHz-1747.5MHz,Q16-75RB_LOW@Pass


```
                                        *RBW 1 MHz        Marker 3 [T1 ]
                                        *VBW 3 MHz                    -28.27 dBm
         Ref   30 dBm        *Att   30 dB    SWT 155 ms       26.075801282 GHz
                                                       Marker 1 [T1 ]
          30                                                         21.21 dBm
                                                             1.726794872 GHz      A
                                                       Marker 2 [T1 ]             SGL
          20                                                         21.21 dBm
                                                             1.726794872 GHz
    1 PK
    MAXH   10                                                                     TDF

           0

         -10    D1 -13 dBm

         -20
                                                                                 3DB
                                                                            3
         -30

         -40

         -50

         -60

         -70
         Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 26.SEP.2016 18:22:19

Report No.: FCC16093968A-5

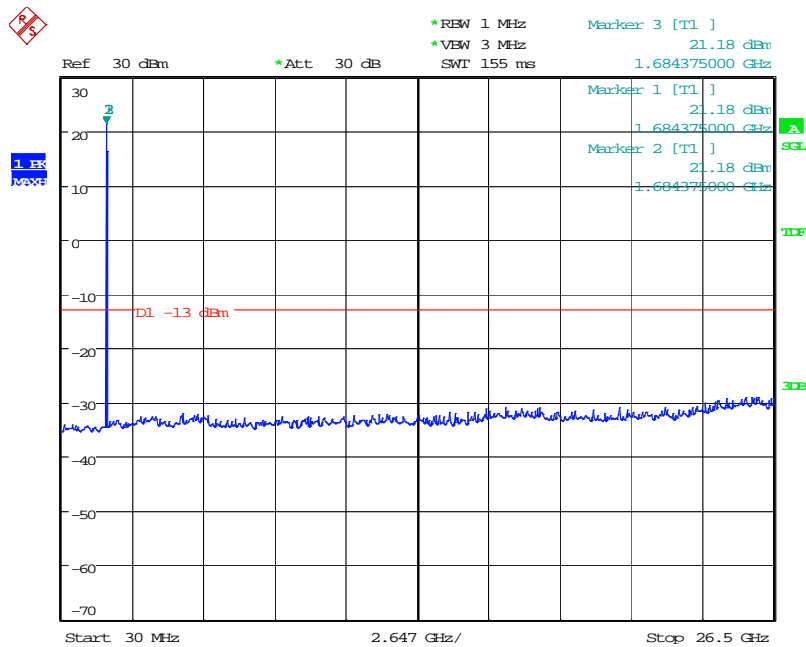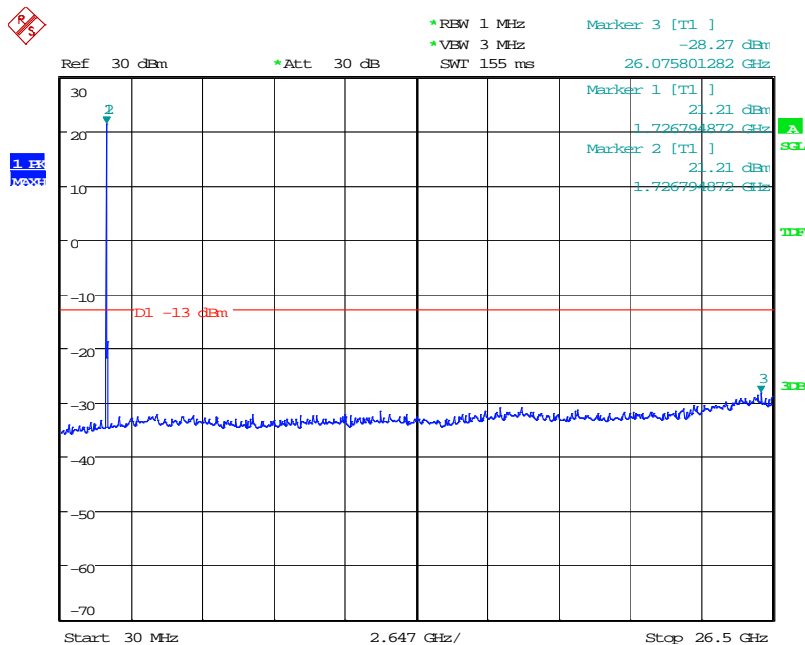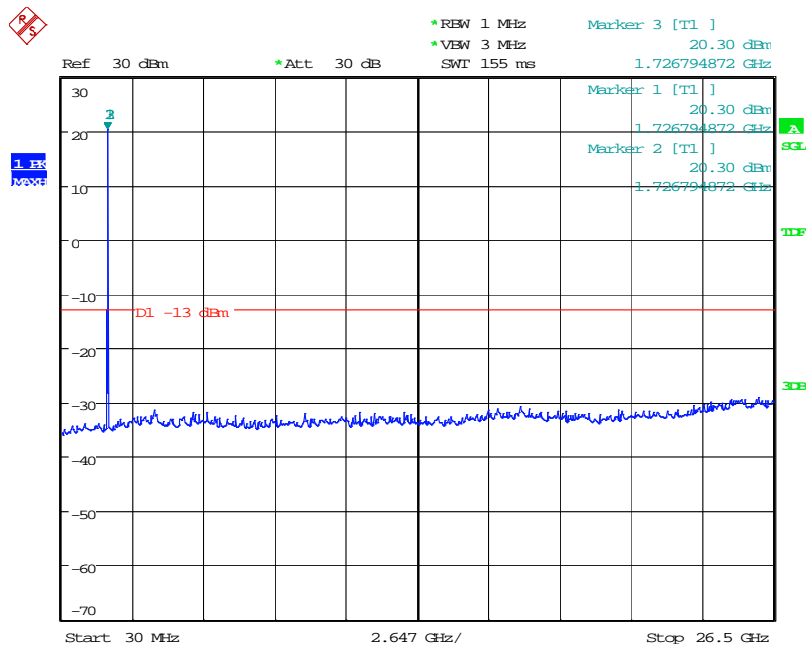### BW15MHz-1732.5MHz,QPSK-75RB_LOW@Pass
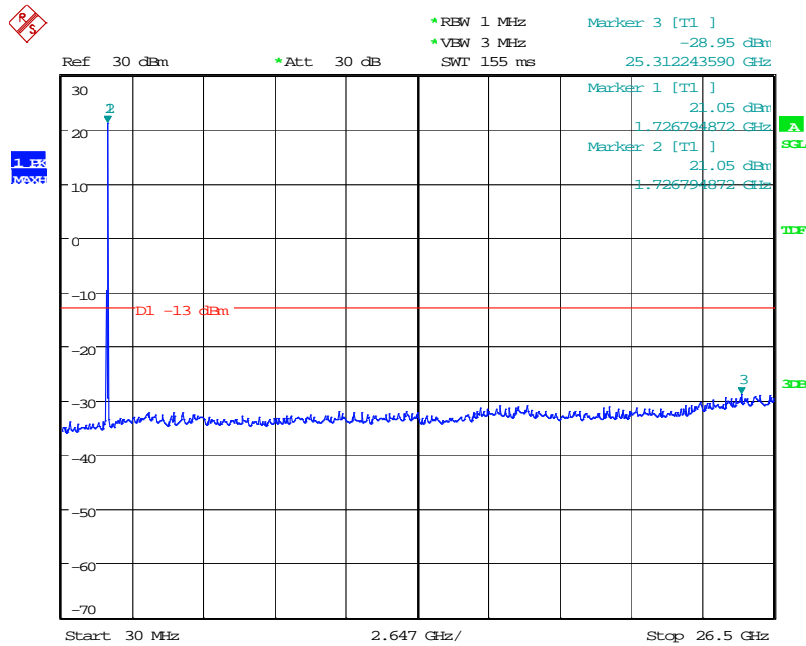
Date: 26.SEP.2016 18:23:00

BW15MHz-1732.5MHz,Q16-75RB_LOW@Pass

Date: 26.SEP.2016 18:23:34

Report No.: FCC16093968A-5

BW20MHz-1720MHz,QPSK-100RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	-28.60 dBm
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.863701923 GHz

Marker 1 [T1]
21.90 dBm
1.684375000 GHz

Marker 2 [T1]
21.90 dBm
1.684375000 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
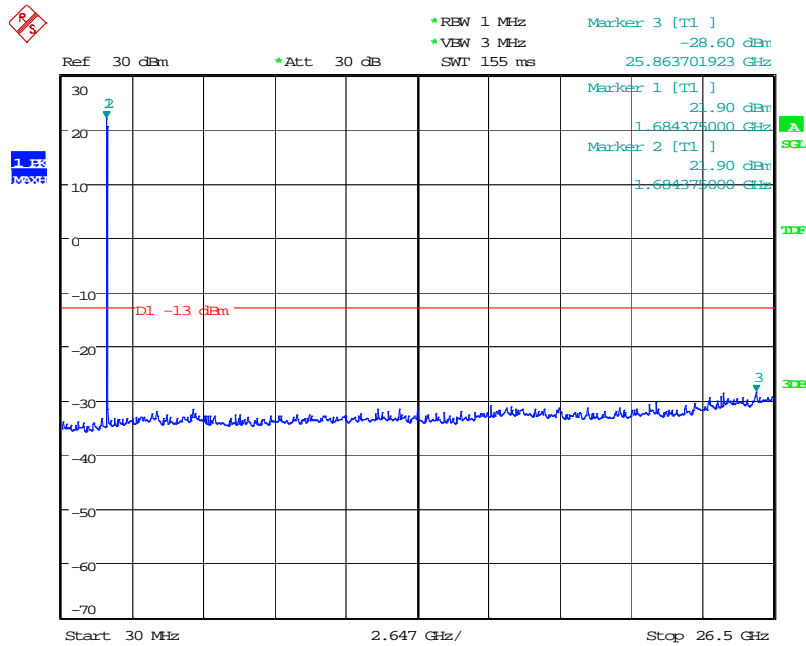
Date: 26.SEP.2016 18:24:30

BW20MHz-1720MHz,Q16-100RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	-28.51 dBm
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.863701923 GHz

Marker 1 [T1]
19.89 dBm
1.684375000 GHz

Marker 2 [T1]
19.89 dBm
1.684375000 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 18:25:28

Report No.: FCC16093968A-5
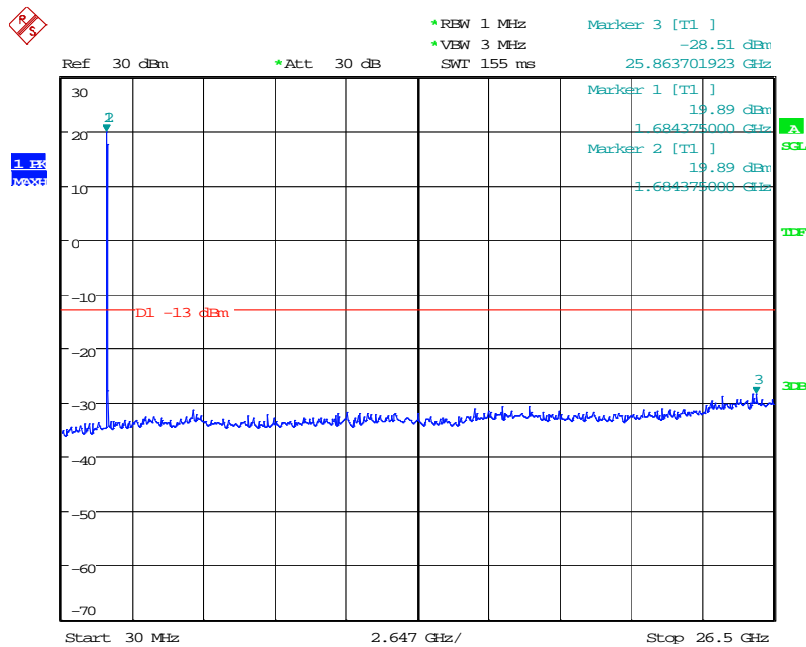
BW20MHz-1745MHz,QPSK-100RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	-28.89 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.906121795 GHz

Marker 1 [T1]
20.65 dBm
1.726794872 GHz

Marker 2 [T1]
20.65 dBm
1.726794872 GHz

1 PK
MAXH

A
SGL

TDF

3DB

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
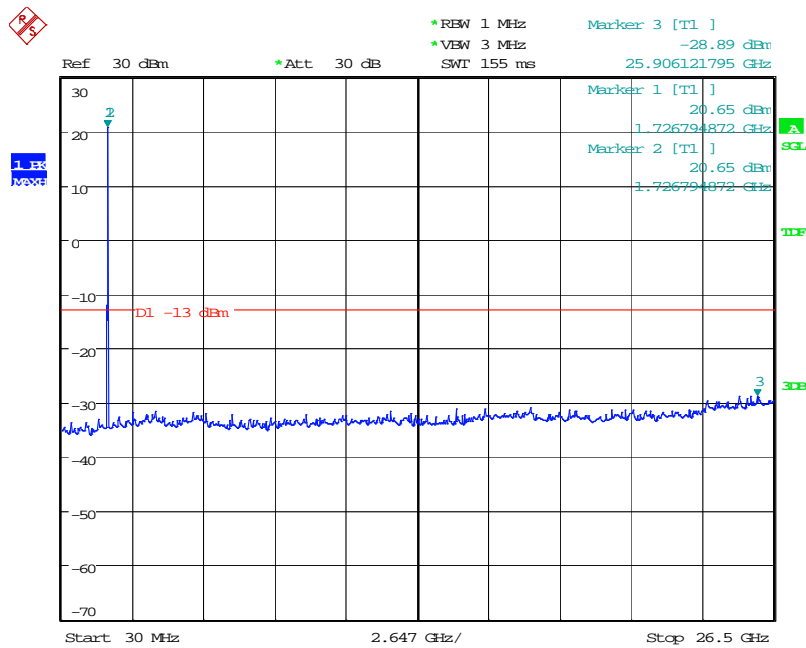
Date: 26.SEP.2016 18:26:20

BW20MHz-1745MHz,Q16-100RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	-27.99 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.863701923 GHz

Marker 1 [T1]
19.70 dBm
1.726794872 GHz

Marker 2 [T1]
19.70 dBm
1.726794872 GHz

1 PK
MAXH

A
SGL

TDF

3DB

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 18:27:07

Report No.: FCC16093968A-5
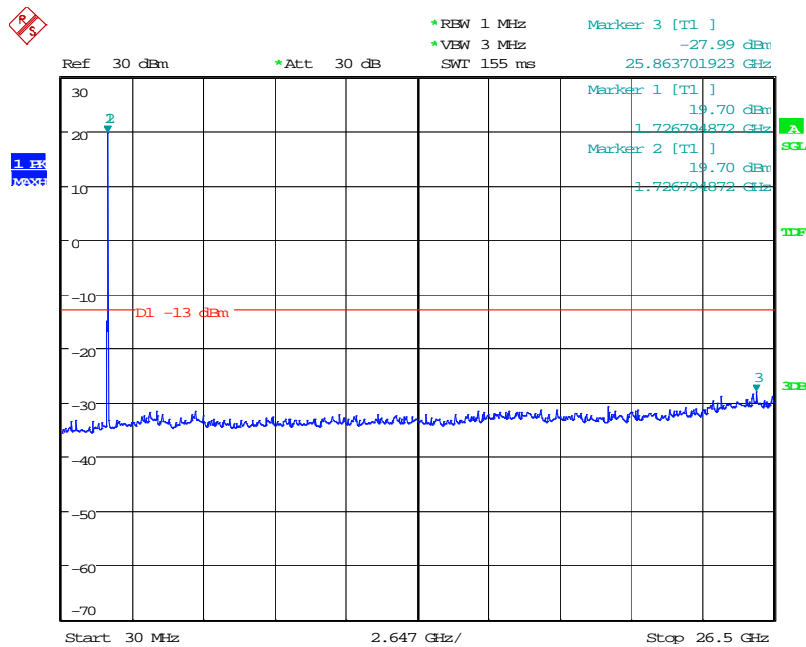
BW20MHz-1732.5MHz,QPSK-100RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−28.79 dBm
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.906121795 GHz

Marker 1 [T1]
20.22 dBm
1.726794872 GHz
Marker 2 [T1]
20.22 dBm
1.726794872 GHz

1 PK
MAX

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
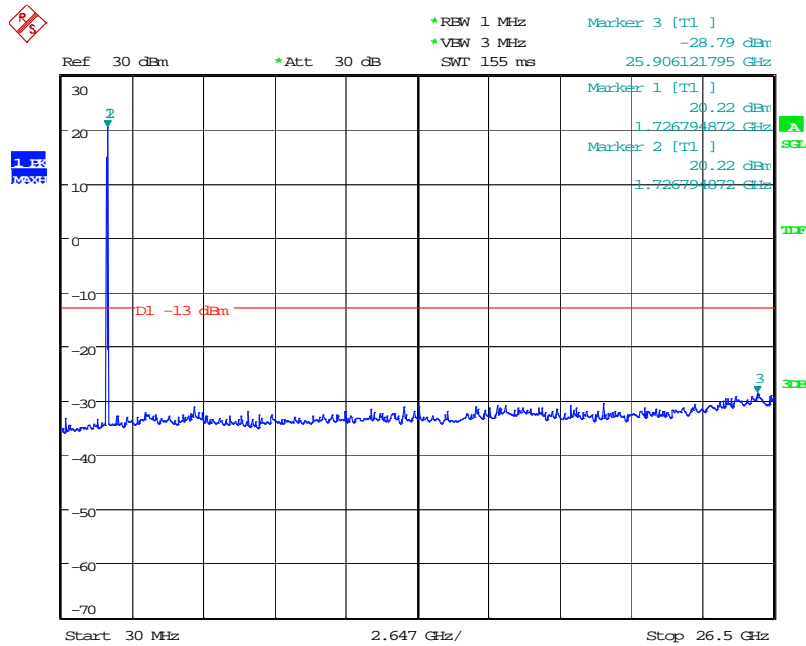
Date: 26.SEP.2016 18:27:40

BW20MHz-1732.5MHz,Q16-100RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−28.84 dBm
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.948541667 GHz

Marker 1 [T1]
19.68 dBm
1.726794872 GHz
Marker 2 [T1]
19.68 dBm
1.726794872 GHz

1 PK
MAX

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 18:28:10

Report No.: FCC16O93968A-5
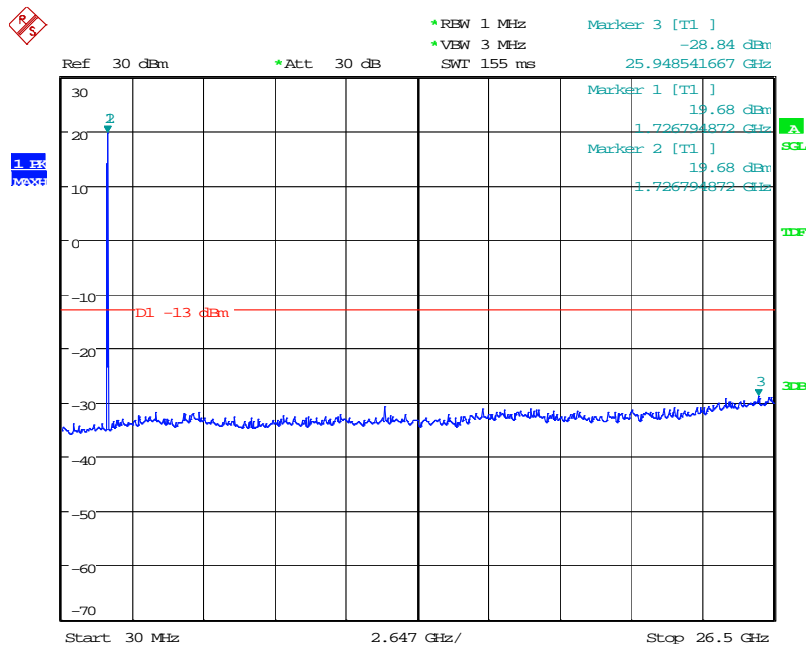
BAND 7@Conducted Spurious Emission

BW5MHz-2502.5MHz,QPSK-25RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz               -33.91 dBm
        Ref   30 dBm      *Att  30 dB    SWT  155 ms   25.821282051 GHz
                                                   Marker 1 [T1 ]
                                                          13.79 dBm
                                                   2.490352564 GHz
                                                   Marker 2 [T1 ]
                                                          13.79 dBm
                                                   2.490352564 GHz

        D1 -13 dBm

Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```
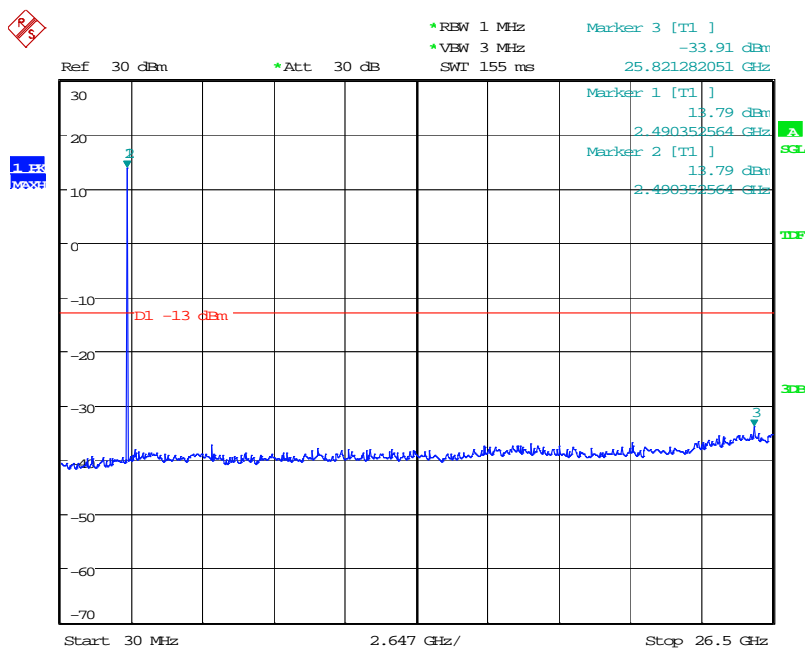
Date: 26.SEP.2016 18:53:48

BW5MHz-2502.5MHz,Q16-25RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz               -34.74 dBm
        Ref   30 dBm      *Att  30 dB    SWT  155 ms   25.778862179 GHz
                                                   Marker 1 [T1 ]
                                                          13.34 dBm
                                                   2.490352564 GHz
                                                   Marker 2 [T1 ]
                                                          13.34 dBm
                                                   2.490352564 GHz

        D1 -13 dBm

Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 26.SEP.2016 18:55:02

Report No.: FCC16093968A-5
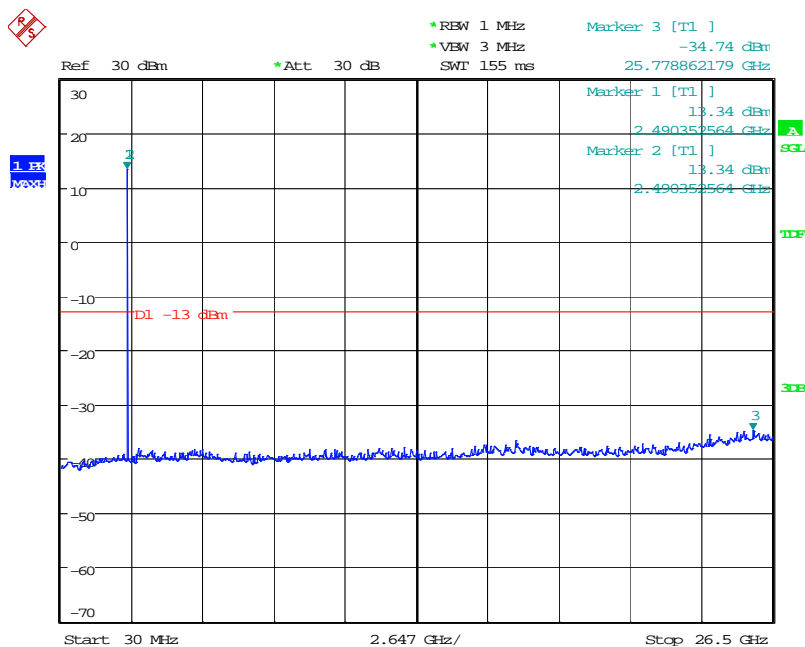
BW5MHz-2567.5MHz,QPSK-25RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]	
	*VBW 3 MHz	14.87 dBm	
Ref 30 dBm	*Att 30 dB SWT 155 ms	2.532772436 GHz	

Marker 1 [T1]
14.87 dBm
2.532772436 GHz

Marker 2 [T1]
14.87 dBm
2.532772436 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
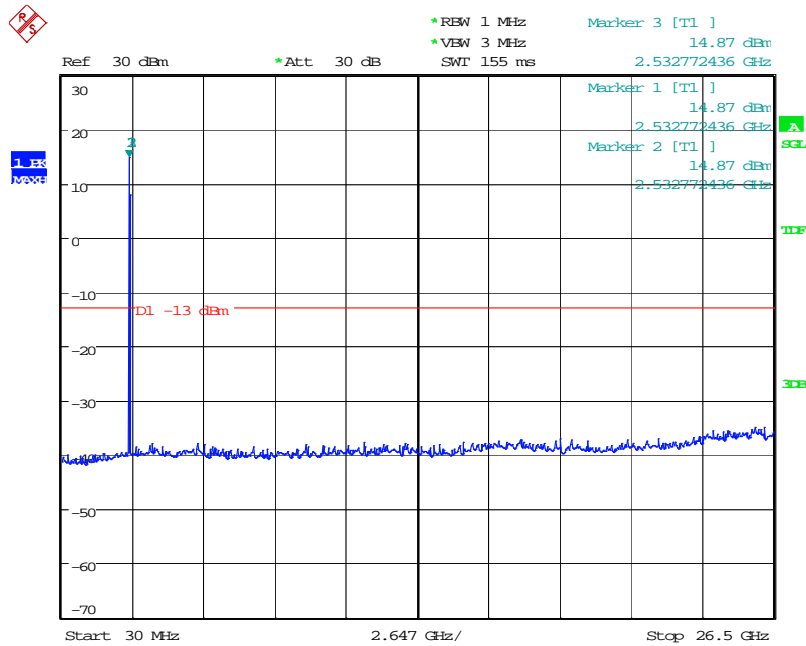
Date: 26.SEP.2016 18:56:17

BW5MHz-2567.5MHz,Q16-25RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]	
	*VBW 3 MHz	−34.40 dBm	
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.481923077 GHz	

Marker 1 [T1]
14.56 dBm
2.532772436 GHz

Marker 2 [T1]
14.56 dBm
2.532772436 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 18:57:31

Report No.: FCC16093968A-5
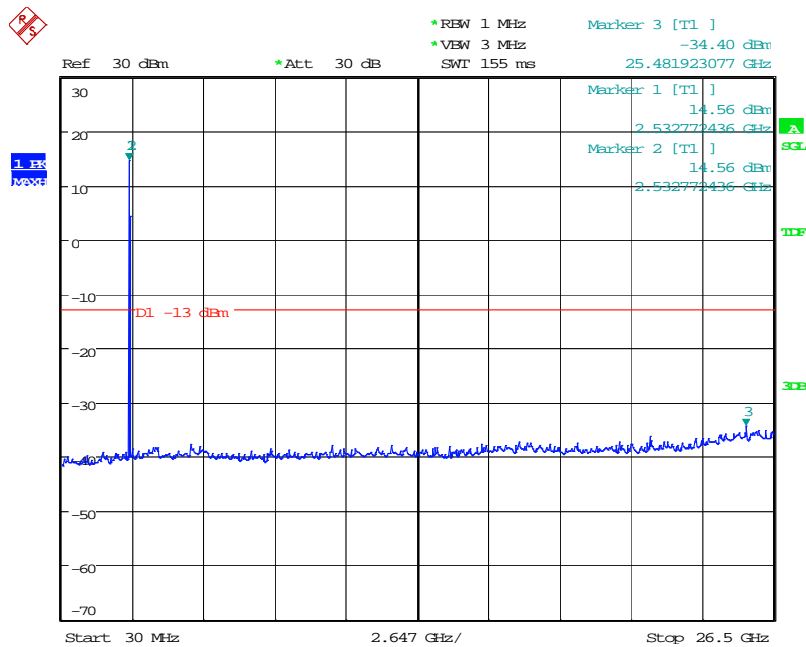
BW5MHz-2535MHz,QPSK-25RB_LOW@Pass

```
                                      *RBW 1 MHz       Marker 3 [T1 ]
                                      *VBW 3 MHz                -34.85 dBm
        Ref   30 dBm      *Att  30 dB  SWT  155 ms      25.354663462 GHz
```

Marker 1 [T1]
13.59 dBm
2.532772436 GHz

Marker 2 [T1]
13.59 dBm
2.532772436 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
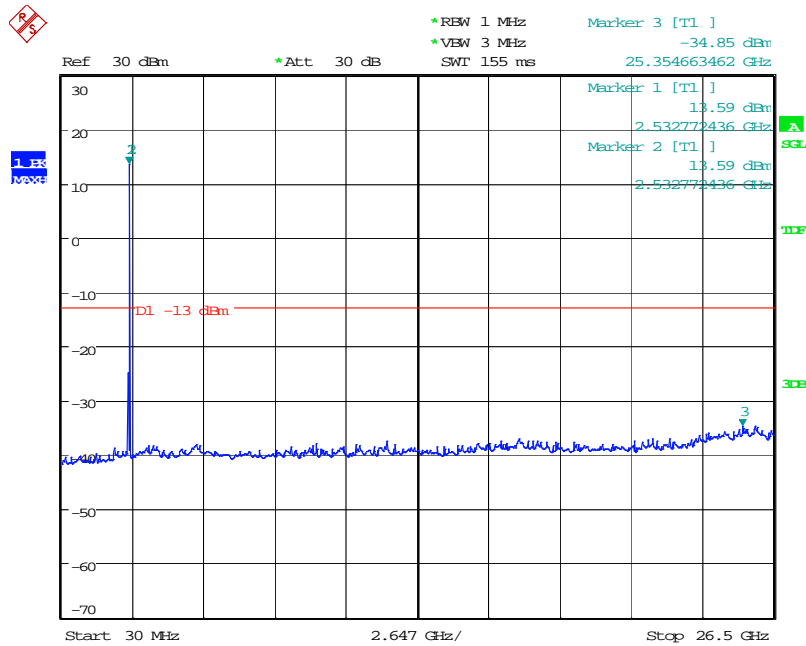
Date: 26.SEP.2016 19:00:02

BW10MHz-2505MHz,QPSK-50RB_LOW@Pass

```
                                      *RBW 1 MHz       Marker 3 [T1 ]
                                      *VBW 3 MHz                -34.81 dBm
        Ref   30 dBm      *Att  30 dB  SWT  155 ms      25.906121795 GHz
```

Marker 1 [T1]
12.12 dBm
2.490352564 GHz

Marker 2 [T1]
12.12 dBm
2.490352564 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 19:01:10

Report No.: FCC16093968A-5
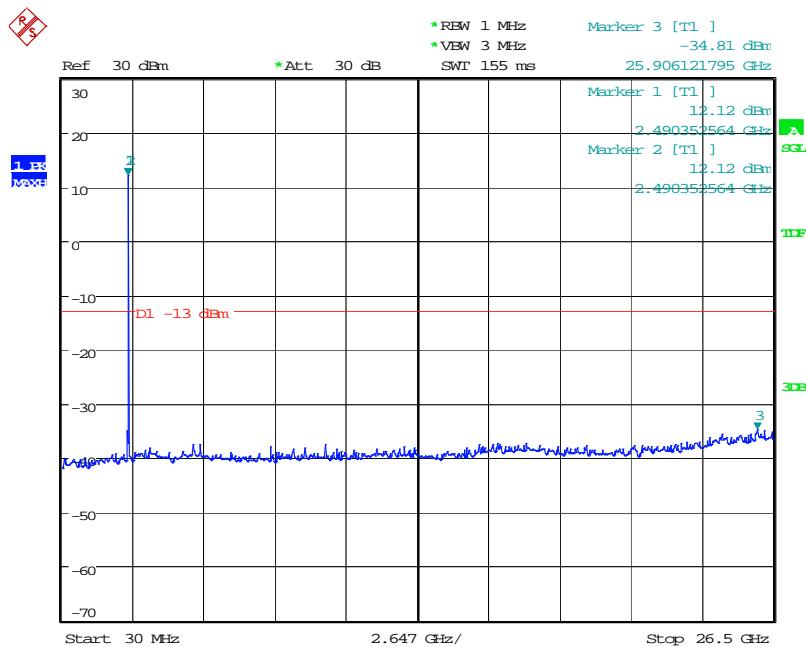
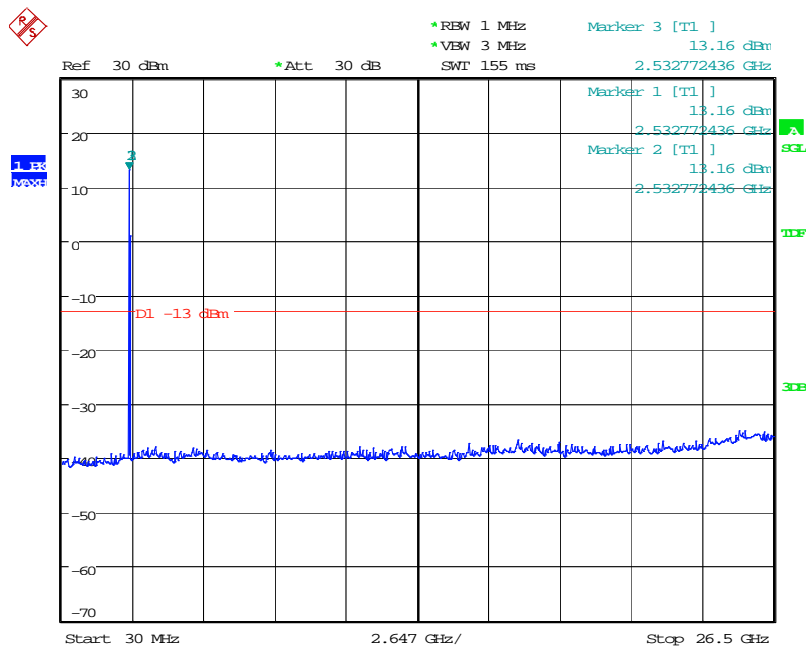## BW10MHz-2505MHz,Q16-50RB_LOW@Pass
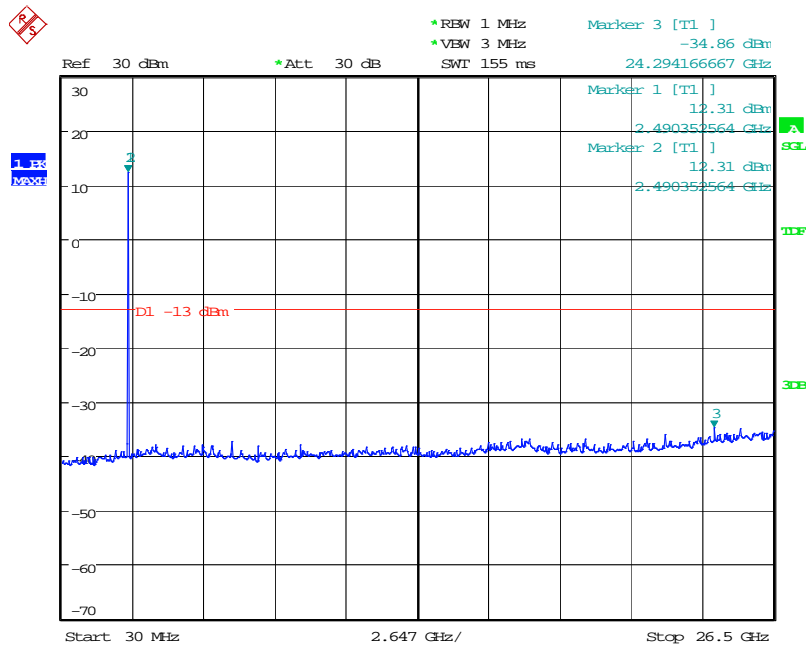
Date: 26.SEP.2016 19:02:16

BW10MHz-2565MHz,QPSK-50RB_LOW@Pass

Date: 26.SEP.2016 19:03:23

Report No.: FCC16093968A-5

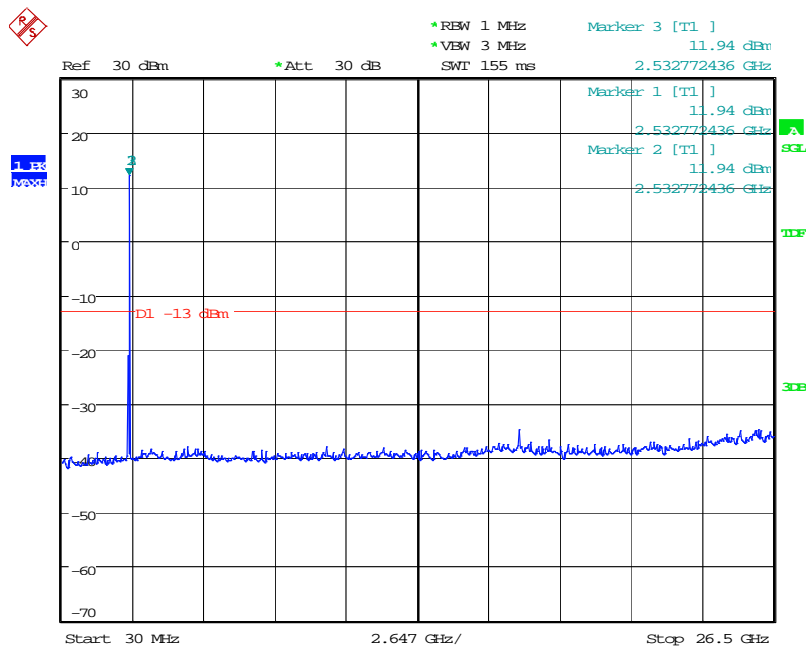### BW10MHz-2565MHz,Q16-50RB_LOW@Pass
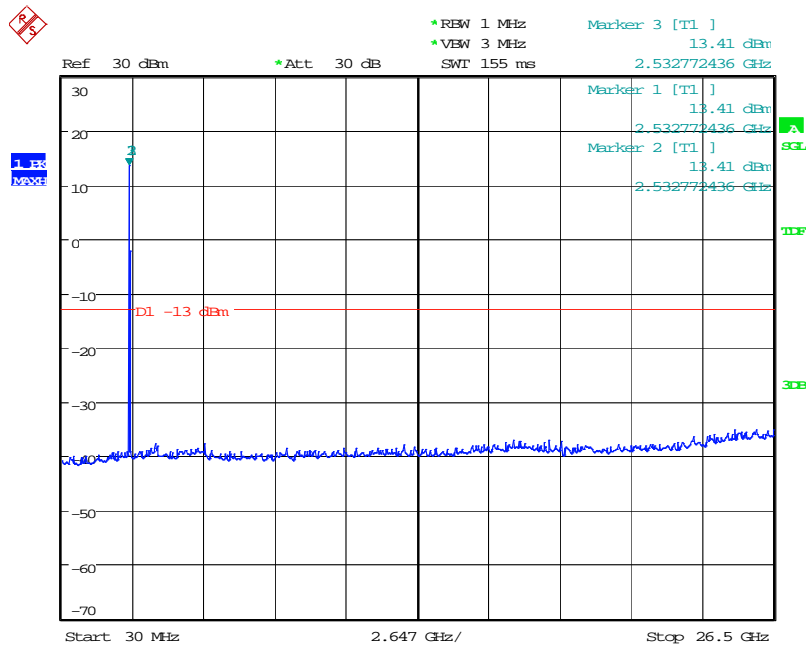
Date: 26.SEP.2016 19:04:29

BW10MHz-2535MHz,QPSK-50RB_LOW@Pass

Date: 26.SEP.2016 19:05:36

Report No.: FCC16093968A-5
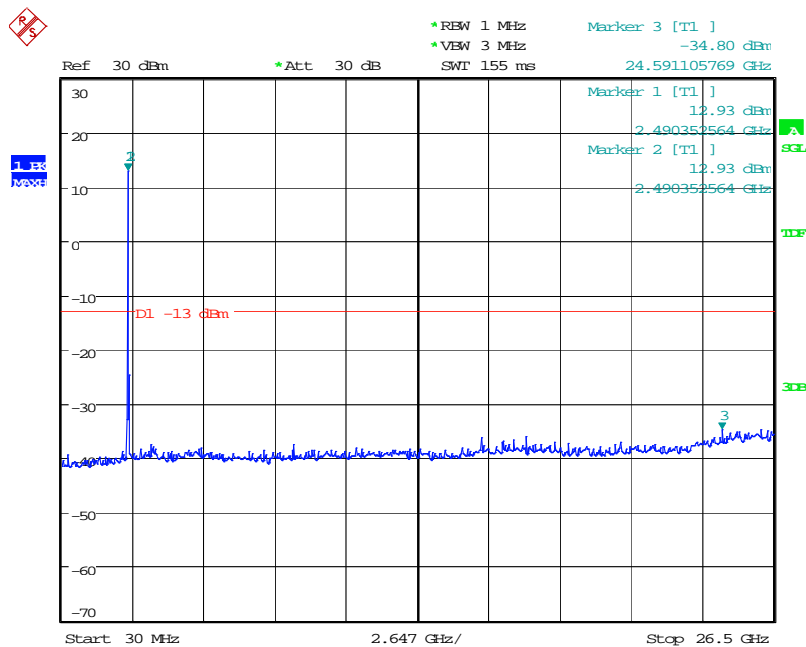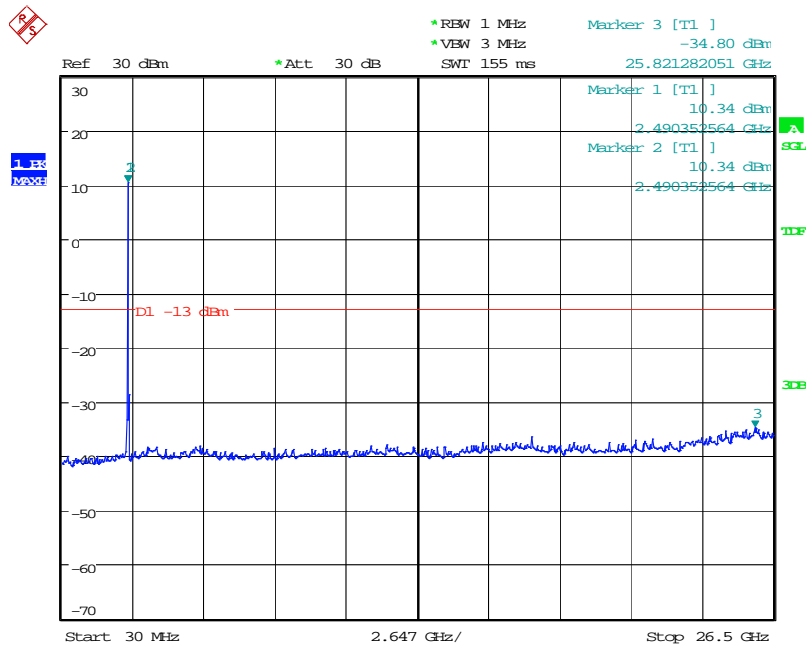
BW10MHz-2535MHz,Q16-50RB_LOW@Pass
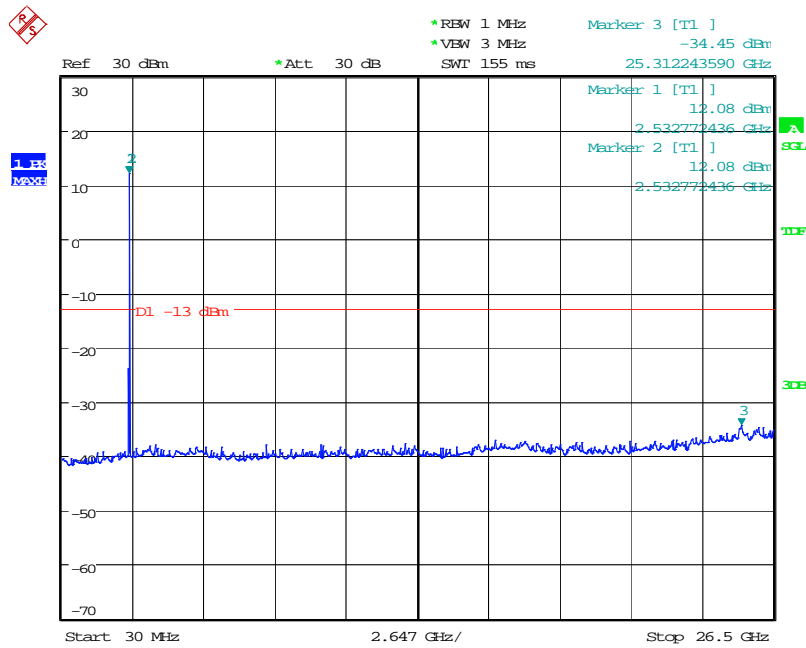
Date: 26.SEP.2016 19:06:42

BW15MHz-2507.5MHz,QPSK-75RB_LOW@Pass

Date: 26.SEP.2016 19:07:50

Report No.: FCC16093968A-5
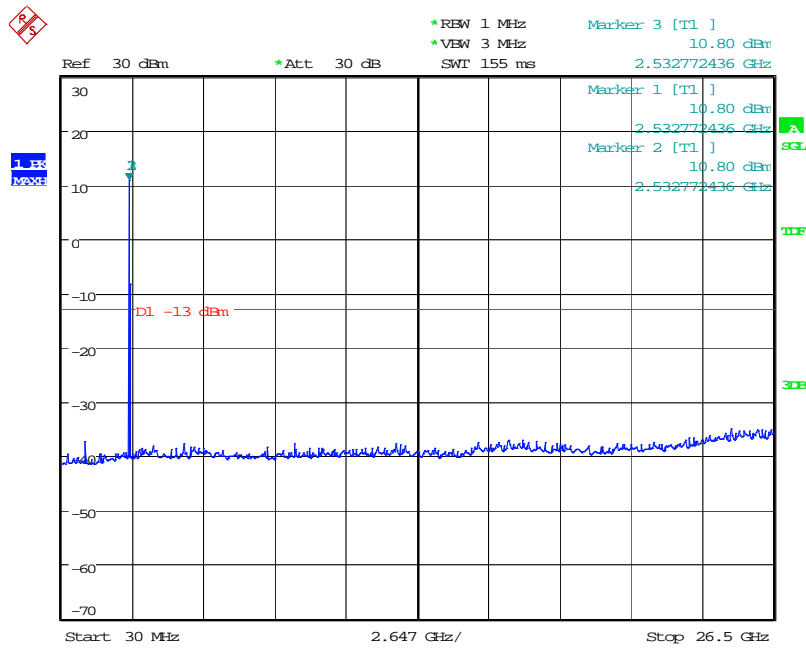
BW15MHz-2507.5MHz,Q16-75RB_LOW@Pass

```
                                    *RBW 1 MHz      Marker 3 [T1 ]
                                    *VBW 3 MHz           -34.80 dBm
      Ref  30 dBm       *Att  30 dB  SWT 155 ms      25.821282051 GHz
      30                                        Marker 1 [T1 ]
                                                    10.34 dBm
      20                                          2.490352564 GHz
                                              Marker 2 [T1 ]
 1 PK                                               10.34 dBm
 MAX 10     1                                     2.490352564 GHz

       0

     -10      D1 -13 dBm

     -20

     -30                                                    3

     -40

     -50

     -60

     -70
      Start  30 MHz          2.647 GHz/        Stop  26.5 GHz
```

Date: 26.SEP.2016 19:08:57

BW15MHz-2562.5MHz,QPSK-75RB_LOW@Pass

```
                                    *RBW 1 MHz      Marker 3 [T1 ]
                                    *VBW 3 MHz           -34.41 dBm
      Ref  30 dBm       *Att  30 dB  SWT 155 ms      25.821282051 GHz
      30                                        Marker 1 [T1 ]
                                                    12.00 dBm
      20                                          2.532772436 GHz
                                              Marker 2 [T1 ]
 1 PK                                               12.00 dBm
 MAX 10     2                                     2.532772436 GHz

       0

     -10      D1 -13 dBm

     -20

     -30                                                    3

     -40

     -50

     -60

     -70
      Start  30 MHz          2.647 GHz/        Stop  26.5 GHz
```

Date: 26.SEP.2016 19:10:05
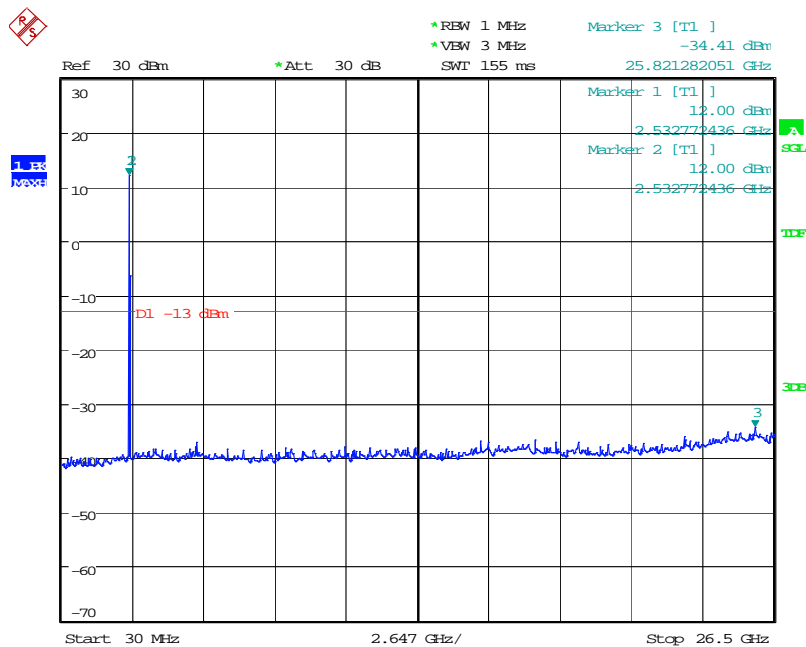
Report No.: FCC16093968A-5

BW15MHz-2562.5MHz,Q16-75RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	10.80 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	2.532772436 GHz

Marker 1 [T1]
10.80 dBm
2.532772436 GHz

Marker 2 [T1]
10.80 dBm
2.532772436 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 19:11:12

BW15MHz-2535MHz,QPSK-75RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	-34.26 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
11.27 dBm
2.532772436 GHz

Marker 2 [T1]
11.27 dBm
2.532772436 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 19:12:08

Report No.: FCC16093968A-5
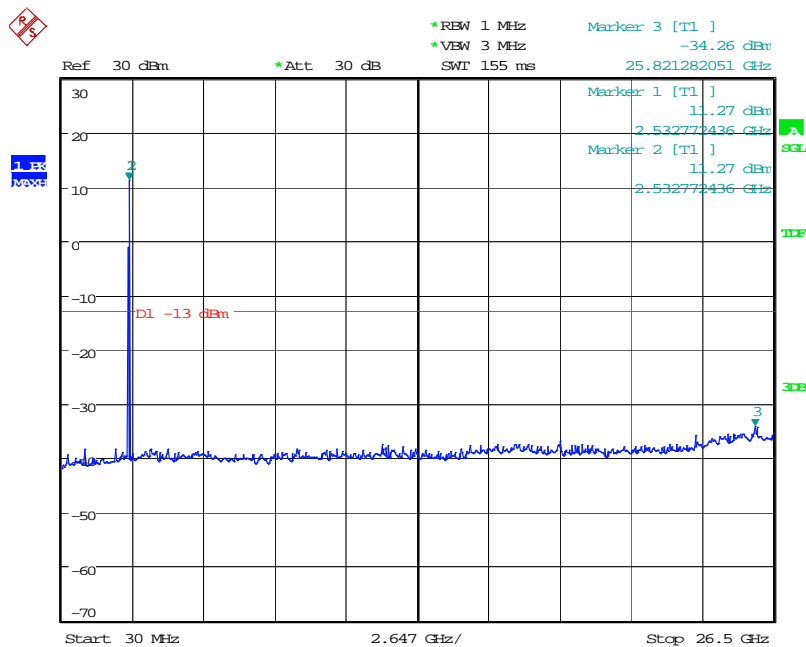
BW15MHz-2535MHz,Q16-75RB_LOW@Pass

Marker 3 [T1]
-34.83 dBm
25.906121795 GHz

*RBW 1 MHz
*VBW 3 MHz
Ref 30 dBm   *Att 30 dB   SWT 155 ms

Marker 1 [T1]
10.73 dBm
2.532772436 GHz

Marker 2 [T1]
-32.98 dBm
1.726794072 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
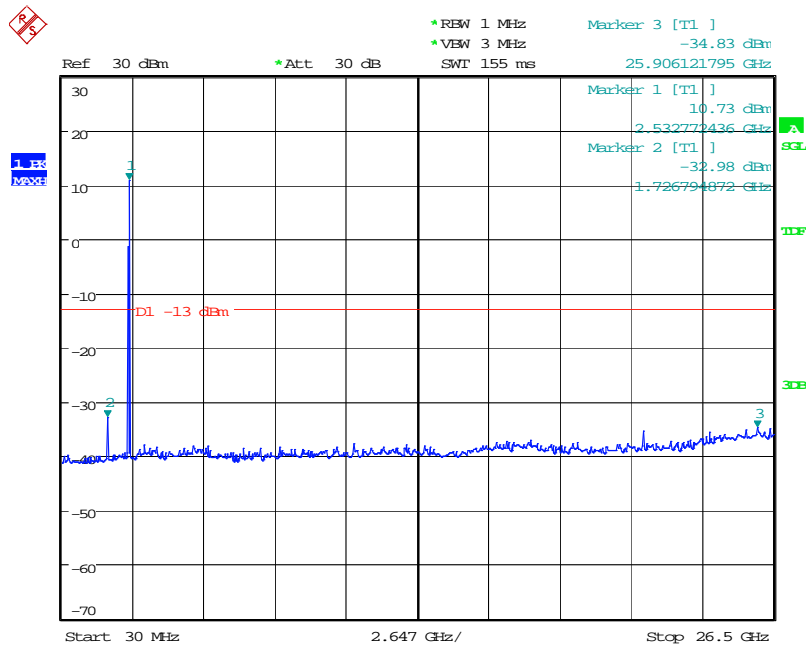
Date: 26.SEP.2016 19:13:00

BW20MHz-2510MHz,QPSK-100RB_LOW@Pass

Marker 3 [T1]
10.53 dBm
2.490352564 GHz

*RBW 1 MHz
*VBW 3 MHz
Ref 30 dBm   *Att 30 dB   SWT 155 ms

Marker 1 [T1]
10.53 dBm
2.490352564 GHz

Marker 2 [T1]
-29.92 dBm
1.726794072 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 26.SEP.2016 19:13:56

Report No.: FCC16093968A-5
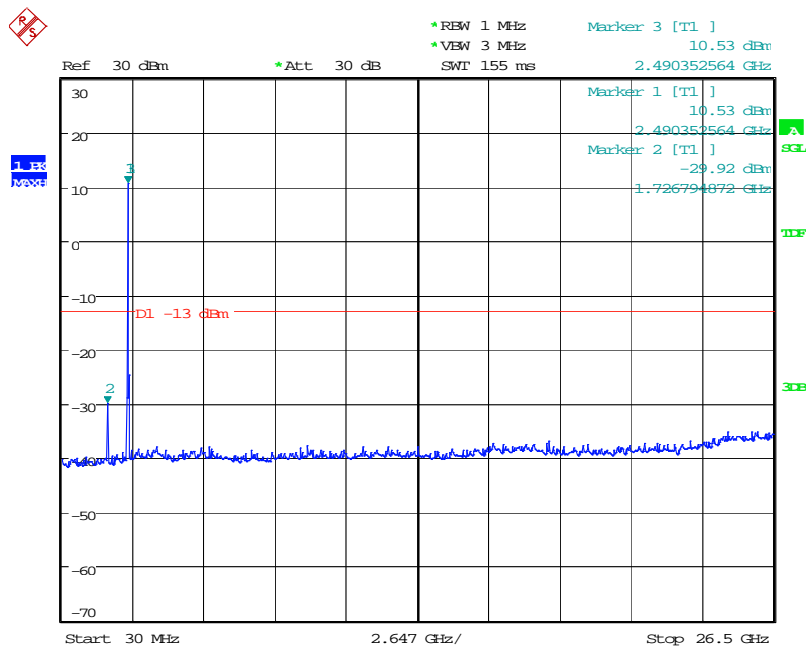
BW20MHz-2510MHz,Q16-100RB_LOW@Pass

*RBW 1 MHz   Marker 3 [T1]
*VBW 3 MHz   -34.76 dBm
Ref 30 dBm   *Att 30 dB   SWT 155 ms   25.778862179 GHz

Marker 1 [T1]
9.40 dBm
2.490352564 GHz
Marker 2 [T1]
9.40 dBm
2.490352564 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
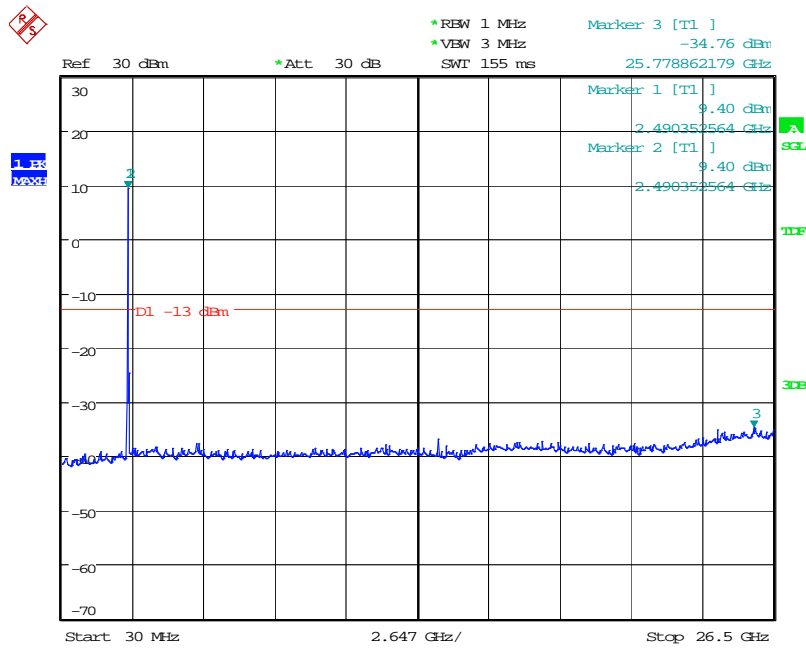
Date: 26.SEP.2016 19:14:49

BW20MHz-2560MHz,QPSK-100RB_LOW@Pass

*RBW 1 MHz   Marker 3 [T1]
*VBW 3 MHz   -34.50 dBm
Ref 30 dBm   *Att 30 dB   SWT 155 ms   26.500000000 GHz

Marker 1 [T1]
11.45 dBm
2.532772436 GHz
Marker 2 [T1]
11.45 dBm
2.532772436 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
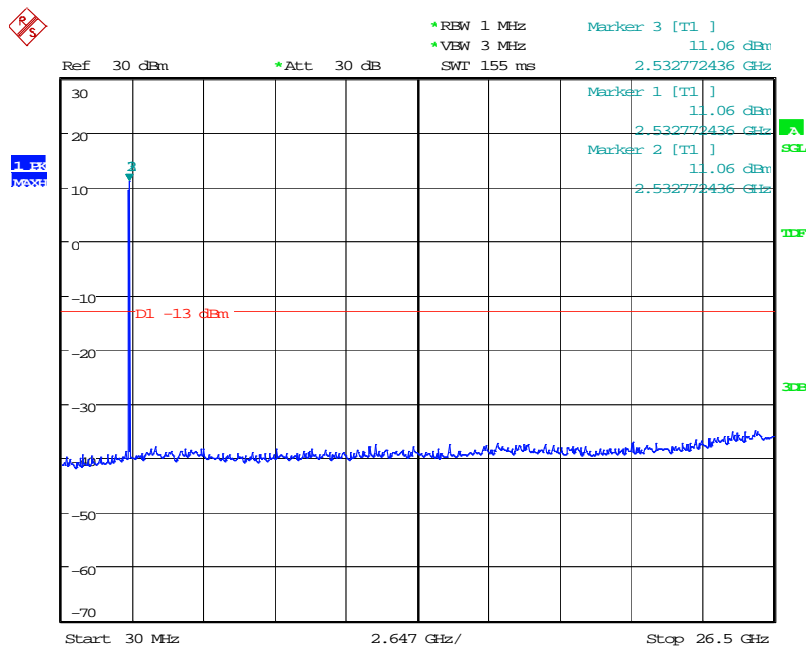
Date: 26.SEP.2016 19:15:43

Report No.: FCC16093968A-5
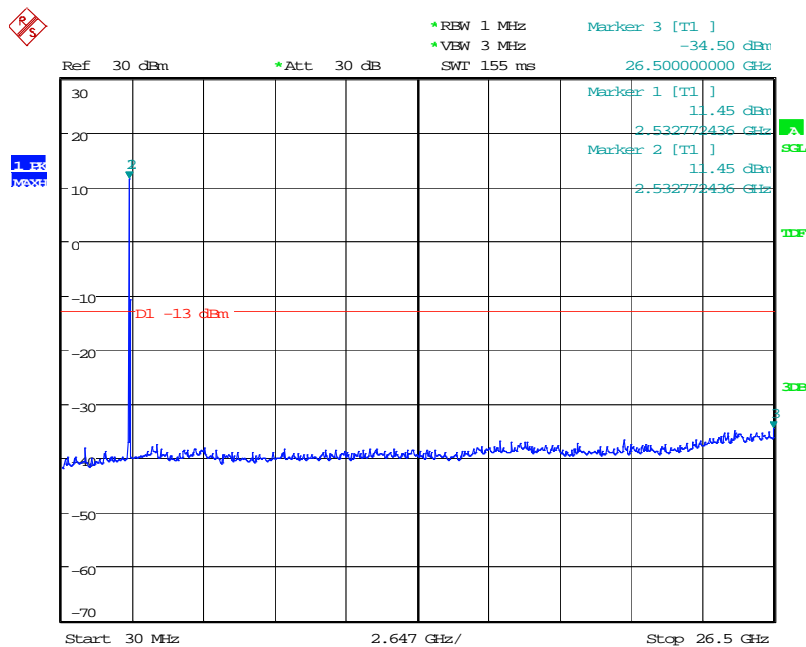
BW20MHz-2560MHz,Q16-100RB_LOW@Pass
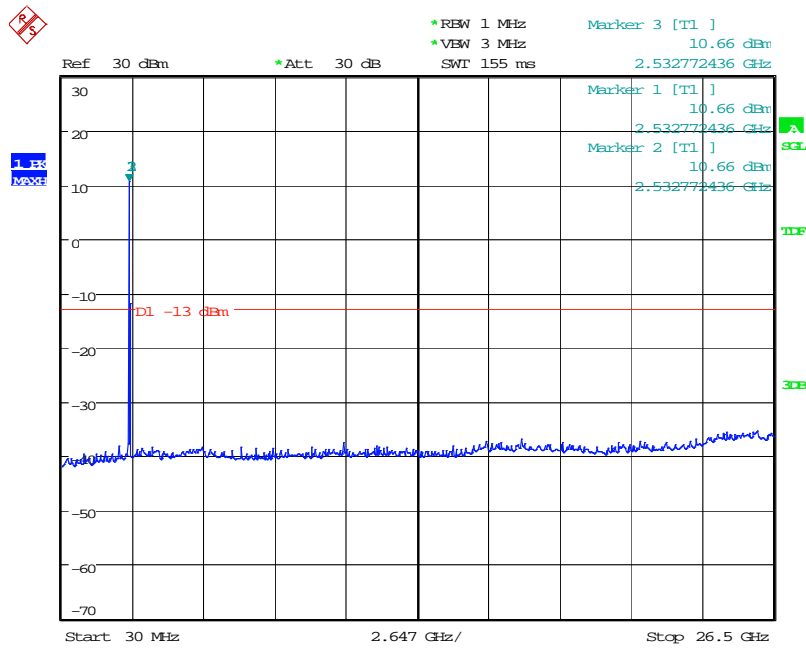
Date: 26.SEP.2016 19:16:36

BW20MHz-2535MHz,QPSK-100RB_LOW@Pass

Date: 26.SEP.2016 19:17:29

Report No.: FCC16093968A-5

BW20MHz-2535MHz,Q16-100RB_LOW@Pass
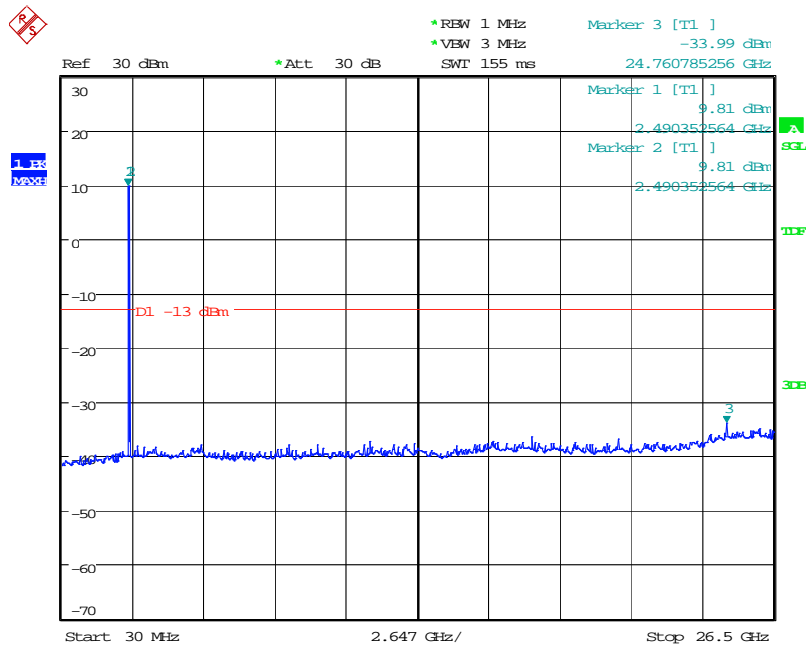
Date: 26.SEP.2016 19:18:21

6.1.2 Radiated method

(a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from halfwave dipole antennas.

(b) The measurements specified in paragraph (a) of this section shall be made for the following equipment:

(1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.

(2) All equipment operating on frequencies higher than 25 MHz.

(3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.

(4) Other types of equipment as required, when deemed necessary by the Commission.

（A）Radiated Emission Test-Up Frequency 30MHz~1GHz
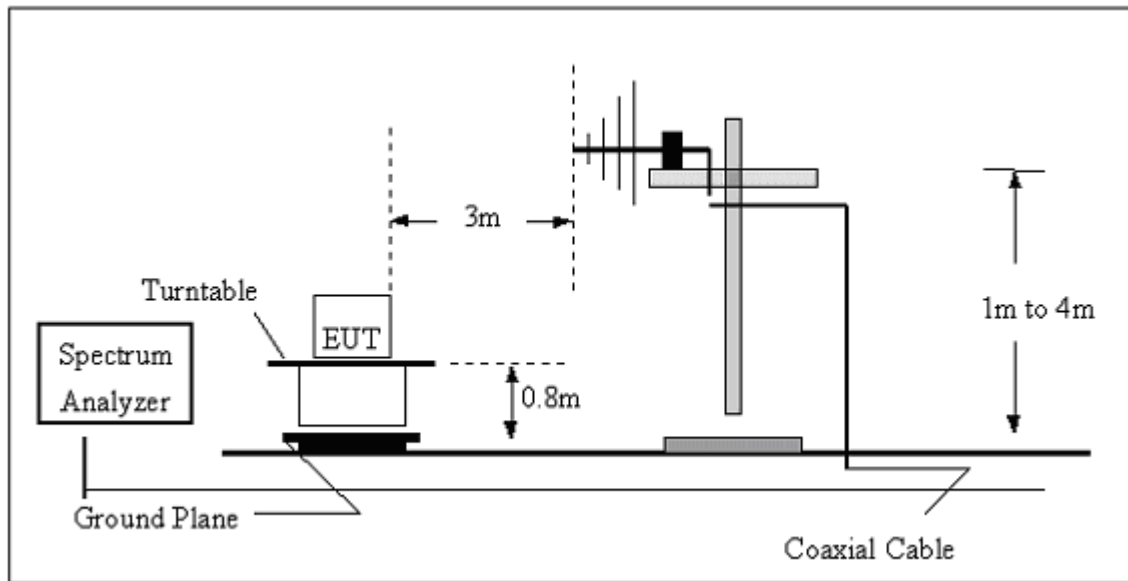
（B）Radiated Emission Test-Up Frequency Above 1GHz
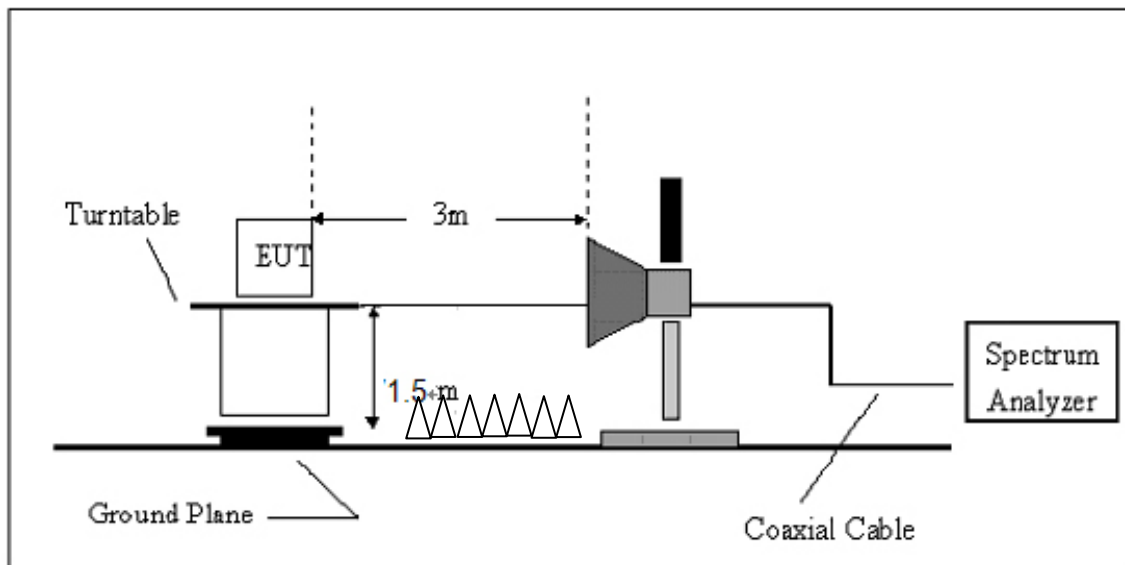
Note:

1, Below 30MHz no Spurious found.

2, UE is poistioned at 3 axis at the pre-scan stage, and only the measurement of the worst case(bandwidth:20MHz /Full RB /QPSK) is reported in this part.

List of final test modes:

GSM850:

Mode	UL Channel	Frequency	Judgement
1	128	824.2	Pass
2	190	836.6	Pass
3	251	848.8	Pass

PCS1900

Mode	UL Channel	Frequency	Judgement
1	512	1850.2	Pass
2	661	1880	Pass
3	810	1909.8	Pass

UTRA BANDS

BAND 2:

Mode	UL Channel	Frequency	Judgement
1	9263	1852.4	Pass
2	9400	1880	Pass
3	9537	1907.6	Pass

BAND 4:.

Mode	UL Channel	Frequency	Judgement
1	1313	1712.6	Pass
2	1450	1740	Pass
3	1512	1752.4	Pass

BAND 5:

Mode	UL Channel	Frequency	Judgement
1	4133	826.6	Pass
2	4175	835	Pass
3	4232	846.4	Pass

E-UTRA BANDS

BAND 2:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	18700	1860	QPSK	100	LOW	Pass
2	20	18900	1880	QPSK	100	LOW	Pass
3	20	19100	1900	QPSK	100	LOW	Pass

BAND 4:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	20050	1720	Q16	100	LOW	Pass
2	20	20300	1745	Q16	100	LOW	Pass
3	20	20175	1732.5	Q16	100	LOW	Pass

BAND 7:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	20850	2510	QPSK	100	LOW	Pass
2	20	21350	2560	QPSK	100	LOW	Pass
3	20	21100	2535	QPSK	100	LOW	Pass

Test record:

GSM850:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1648.4	-35.61	1.42	-37.03	-13	Horizontal
1648.4	-34.00	-2.48	-31.52	-13	Vertical
2472.6	-28.35	3.26	-31.61	-13	Horizontal
2472.6	-36.02	6.68	-42.70	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1673.2	-30.92	1.42	-32.34	-13	Horizontal
1673.2	-28.57	-2.48	-26.09	-13	Vertical
2509.8	-29.64	3.26	-32.90	-13	Horizontal
2509.8	-35.23	6.68	-41.91	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1697.6	-34.99	1.42	-36.41	-13	Horizontal
1697.6	-33.42	-2.48	-30.94	-13	Vertical
2546.4	-28.19	3.26	-31.45	-13	Horizontal
2546.4	-36.62	6.68	-43.30	-13	Vertical

PCS1900:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3700.4	-32.57	-1.98	-30.59	-13	Horizontal
3700.4	-33.85	-1.61	-32.24	-13	Vertical
5550.6	-34.43	1.97	-36.40	-13	Horizontal
5550.6	-30.90	-2.26	-28.64	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3760	-33.25	-1.98	-31.27	-13	Horizontal
3760	-28.36	-1.61	-26.75	-13	Vertical
5640	-29.32	1.97	-31.29	-13	Horizontal
5640	-31.94	-2.26	-29.68	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3819.6	-36.24	-1.98	-34.26	-13	Horizontal
3819.6	-35.42	-1.61	-33.81	-13	Vertical
5729.4	-28.55	1.97	-30.52	-13	Horizontal
5729.4	-32.60	-2.26	-30.34	-13	Vertical

UTRA BANDS

BAND 2:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3704.8	-62.96	10.06	-52.90	-13	Horizontal
3704.8	-62.76	10.08	-52.68	-13	Vertical
5557.2	-63.59	12.12	-51.47	-13	Horizontal
5557.2	-65.21	11.74	-53.47	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3760	-62.42	10.52	-51.90	-13	Horizontal
3760	-63.29	10.71	-52.58	-13	Vertical
5640	-63.99	11.69	-52.30	-13	Horizontal
5640	-64.60	11.91	-52.68	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3815.2	-63.02	10.07	-52.95	-13	Horizontal
3815.2	-62.71	10.55	-52.16	-13	Vertical
5722.8	-64.15	12.07	-52.07	-13	Horizontal
5722.8	-64.83	11.58	-53.26	-13	Vertical

BAND 4:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3424.8	-62.46	10.25	-52.22	-13	Horizontal
3424.8	-62.89	10.08	-52.81	-13	Vertical
5137.2	-63.92	12.45	-51.48	-13	Horizontal
5137.2	-65.18	12.23	-52.95	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3465.2	-62.56	10.02	-52.55	-13	Horizontal
3465.2	-62.52	10.31	-52.21	-13	Vertical
5197.8	-63.55	12.13	-51.42	-13	Horizontal
5197.8	-64.84	12.48	-52.36	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3505.2	-62.78	10.31	-52.47	-13	Horizontal
3505.2	-63.07	10.83	-52.24	-13	Vertical
5257.8	-64.16	11.52	-52.64	-13	Horizontal
5257.8	-64.53	11.70	-52.84	-13	Vertical

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BAND 5:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1652.8	-62.74	10.20	-52.54	-13	Horizontal
1652.8	-63.03	10.68	-52.35	-13	Vertical
2479.2	-63.91	11.62	-52.28	-13	Horizontal
2479.2	-64.79	12.49	-52.30	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1673.2	-62.39	10.74	-51.66	-13	Horizontal
1673.2	-63.16	10.96	-52.20	-13	Vertical
2509.8	-63.99	11.99	-52.00	-13	Horizontal
2509.8	-64.68	11.68	-52.99	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1693.2	-63.06	10.95	-52.12	-13	Horizontal
1693.2	-63.46	10.13	-53.33	-13	Vertical
2539.8	-64.20	12.28	-51.92	-13	Horizontal
2539.8	-65.25	12.12	-53.14	-13	Vertical

E-UTRA BANDS

BAND 2:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3720	-62.73	10.99	-51.74	-13	Horizontal
3720	-63.30	10.45	-52.84	-13	Vertical
5580	-64.43	11.68	-52.75	-13	Horizontal
5580	-65.01	11.79	-53.22	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3760	-63.15	10.14	-53.01	-13	Horizontal
3760	-63.28	10.65	-52.63	-13	Vertical
5640	-63.52	12.04	-51.48	-13	Horizontal
5640	-64.74	11.85	-52.89	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A$_{Rpl}$ (dBm)	P$_{Mea}$(dBm)	Limit（dBm）	Polarity
3800	-62.31	10.74	-51.56	-13	Horizontal
3800	-62.73	10.16	-52.57	-13	Vertical
5700	-64.40	11.95	-52.45	-13	Horizontal
5700	-64.52	12.34	-52.19	-13	Vertical

BAND 4:

Mode 1					
Frequency(MHz)	Power(dBm)	A$_{Rpl}$ (dBm)	P$_{Mea}$(dBm)	Limit（dBm）	Polarity
3440	-63.21	10.29	-52.92	-13	Horizontal
3440	-62.93	10.38	-52.55	-13	Vertical
5160	-63.70	12.50	-51.20	-13	Horizontal
5160	-65.45	12.37	-53.08	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A$_{Rpl}$ (dBm)	P$_{Mea}$(dBm)	Limit（dBm）	Polarity
3490	-55.03	10.01	-45.02	-13	Horizontal
3490	-57.22	10.01	-47.21	-13	Vertical
5235	-65.08	14.8	-50.28	-13	Horizontal
5235	-61.07	14.8	-46.27	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A$_{Rpl}$ (dBm)	P$_{Mea}$(dBm)	Limit（dBm）	Polarity
3465	-60.20	10.01	-50.19	-13	Horizontal
3465	-60.89	10.01	-50.88	-13	Vertical
5197.5	-67.26	14.8	-52.46	-13	Horizontal
5197.5	-70.81	14.8	-56.01	-13	Vertical

BAND 7:

Mode 1					
Frequency(MHz)	Power(dBm)	A$_{Rpl}$ (dBm)	P$_{Mea}$(dBm)	Limit（dBm）	Polarity
1679	-63.20	10.24	-52.97	-25	Horizontal
1679	-63.25	10.49	-52.75	-25	Vertical
2518.5	-64.28	12.27	-52.01	-25	Horizontal
2518.5	-65.18	11.92	-53.26	-25	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1680	-62.75	10.14	-52.62	-25	Horizontal
1680	-63.31	10.04	-53.27	-25	Vertical
2520	-63.53	11.99	-51.54	-25	Horizontal
2520	-65.19	11.97	-53.22	-25	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1683	-62.51	10.63	-51.88	-25	Horizontal
1683	-62.78	10.90	-51.88	-25	Vertical
2524.5	-63.97	12.45	-51.52	-25	Horizontal
2524.5	-65.41	11.79	-53.63	-25	Vertical

7 FREQUENCY STABILITY

Frequency stability

(a) The frequency stability shall be measured with variation of ambient temperature as follows:

(1) From −30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

(2) From −20° to + 50° centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

(3) From 0° to + 50° centigrade for equipment to be licensed for use in the Radio Broadcast Services under part 73 of this chapter.

(b) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test.

(c) In addition to all other requirements of this section, the following information is required for equipment incorporating heater type crystal oscillators to be used in mobile stations, for which type acceptance is first requested after March 25, 1974, except for battery powered, hand carried, portable equipment having less than 3 watts mean output power.

(1) Measurement data showing variation in transmitter output frequency from a cold start and the elapsed time necessary for the frequency to stabilize within the applicable tolerance. Tests shall be made after temperature stabilization at each of the ambient temperature levels; the lower temperature limit, 0° centigrade and + 30° centigrade with no primary power applied.

(2) Beginning at each temperature level specified in paragraph (c)(1) of this section, the frequency shall be measured within one minute after application of primary power to the transmitter and at intervals of no more than one minute thereafter until ten minutes have elapsed or until sufficient measurements are obtained to indicate clearly that the frequency has stabilized within the applicable tolerance, whichever time period is greater. During each test, the ambient temperature shall not be allowed to rise more than 10° centigrade above the respective beginning ambient temperature level.

(3) The elapsed time necessary for the frequency to stabilize within the applicable tolerance from each beginning ambient temperature level as determined from the tests specified in this paragraph shall be specified in the instruction book for the transmitter furnished to the user.

(4) When it is impracticable to subject the complete transmitter to this test because of its physical dimensions or power rating, only its frequency determining and stabilizing portions need be tested.

(d) The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

(3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

(e) When deemed necessary, the Commission may require tests of frequency stability under conditions in addition to those specifically set out in paragraphs (a), (b), (c), and (d) of this section. (For example measurements showing the effect of proximity to large metal objects, or of various types of antennas, may be required for portable equipment.)

7.1 Measurement Result（Worst）

Frequency Error against Voltage for GSM 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	39	0.046
3.85	30	0.036
4.4	39	0.046

Frequency Error against Temperature for GSM 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	40	0.048
0	32	0.038
10	37	0.044
20	38	0.045
30	38	0.046
40	31	0.037
50	33	0.039

Frequency Error against Voltage for PCS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	37	0.019
3.85	33	0.018
4.4	36	0.019

Frequency Error against Temperature for PCS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	36	0.019
0	29	0.015
10	40	0.021
20	30	0.016
30	41	0.022
40	33	0.018
50	35	0.018

Frequency Error against Voltage for GPRS 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	35	0.042
3.85	35	0.041
4.4	32	0.039

Frequency Error against Temperature for GPRS 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	36	0.043
0	29	0.034
10	40	0.048
20	36	0.043
30	37	0.044
40	33	0.039
50	33	0.039

Frequency Error against Voltage for GPRS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	38	0.020
3.85	35	0.019
4.4	34	0.018

Frequency Error against Temperature for GPRS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	35	0.019
0	35	0.019
10	29	0.015
20	31	0.016
30	34	0.018
40	31	0.017
50	36	0.019

Frequency Error against Voltage for EGPRS 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	40	0.048
3.85	38	0.045
4.4	29	0.035

Frequency Error against Temperature for EGPRS 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	31	0.037
0	35	0.042
10	29	0.034
20	29	0.034
30	36	0.043
40	30	0.036
50	35	0.042

Frequency Error against Voltage for EGPRS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	29	0.015
3.85	36	0.019
4.4	38	0.020

Frequency Error against Temperature for EGPRS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	33	0.018
0	41	0.022
10	37	0.020
20	38	0.020
30	30	0.016
40	35	0.019
50	36	0.019

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Frequency Error against Voltage for WCDMA BAND 2 (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	33	0.018
3.85	30	0.016
4.4	34	0.018

Frequency Error against Temperature for WCDMA BAND 2 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	28	0.015
0	39	0.021
10	29	0.016
20	38	0.020
30	39	0.021
40	37	0.020
50	33	0.018

Frequency Error against Voltage for WCDMA BAND 4 (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	30	0.035
3.85	31	0.037
4.4	38	0.046

Frequency Error against Temperature for WCDMA BAND 4 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	29	0.035
0	33	0.039
10	38	0.045
20	31	0.037
30	34	0.040
40	32	0.039
50	33	0.039

Frequency Error against Voltage for WCDMA BAND 5 (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	31	0.018
3.85	29	0.017
4.4	30	0.017

Frequency Error against Temperature for WCDMA BAND 5 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	29	0.017
0	37	0.022
10	33	0.019
20	29	0.017
30	36	0.021
40	38	0.022
50	39	0.022

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BAND 2:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	18607	1850.7	QPSK	1	LOW	-10.11	-0.0055
1.4	18607	1850.7	QPSK	1	MID	5.78	0.0031
1.4	18607	1850.7	QPSK	1	HIGH	5.29	0.0029
1.4	18607	1850.7	QPSK	3	LOW	2.9	0.0016
1.4	18607	1850.7	QPSK	3	MID	2.6	0.0014
1.4	18607	1850.7	QPSK	3	HIGH	4.18	0.0023
1.4	18607	1850.7	QPSK	6	LOW	-4.05	-0.0022
1.4	18607	1850.7	Q16	1	LOW	-4.59	-0.0025
1.4	18607	1850.7	Q16	1	MID	2.59	0.0014
1.4	18607	1850.7	Q16	1	HIGH	-4.85	-0.0026
1.4	18607	1850.7	Q16	3	LOW	-4.09	-0.0022
1.4	18607	1850.7	Q16	3	MID	-3.1	-0.0017
1.4	18607	1850.7	Q16	3	HIGH	3.36	0.0018
1.4	18607	1850.7	Q16	6	LOW	4.08	0.0022
1.4	18900	1880	QPSK	1	LOW	5.36	0.0029
1.4	18900	1880	QPSK	1	MID	-8.5	-0.0045
1.4	18900	1880	QPSK	1	HIGH	-9.83	-0.0052
1.4	18900	1880	QPSK	3	LOW	-3.05	-0.0016
1.4	18900	1880	QPSK	3	MID	5.31	0.0028
1.4	18900	1880	QPSK	3	HIGH	7.8	0.0041
1.4	18900	1880	QPSK	6	LOW	7.25	0.0039
1.4	18900	1880	Q16	1	LOW	2.83	0.0015
1.4	18900	1880	Q16	1	MID	3.12	0.0017
1.4	18900	1880	Q16	1	HIGH	-4.98	-0.0026
1.4	18900	1880	Q16	3	LOW	3.39	0.0018
1.4	18900	1880	Q16	3	MID	-3.33	-0.0018
1.4	18900	1880	Q16	3	HIGH	4.06	0.0022
1.4	18900	1880	Q16	6	LOW	4.46	0.0024
1.4	19193	1909.3	QPSK	1	LOW	7.42	0.0039
1.4	19193	1909.3	QPSK	1	MID	7.4	0.0039
1.4	19193	1909.3	QPSK	1	HIGH	5.69	0.003
1.4	19193	1909.3	QPSK	3	LOW	4.81	0.0025
1.4	19193	1909.3	QPSK	3	MID	-4.86	-0.0025
1.4	19193	1909.3	QPSK	3	HIGH	-5.59	-0.0029

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	19193	1909.3	QPSK	6	LOW	4.55	0.0024
1.4	19193	1909.3	Q16	1	LOW	-4.55	-0.0024
1.4	19193	1909.3	Q16	1	MID	-5.79	-0.003
1.4	19193	1909.3	Q16	1	HIGH	-5.85	-0.0031
1.4	19193	1909.3	Q16	3	LOW	-5.99	-0.0031
1.4	19193	1909.3	Q16	3	MID	4.22	0.0022
1.4	19193	1909.3	Q16	3	HIGH	-4.62	-0.0024
1.4	19193	1909.3	Q16	6	LOW	3.86	0.002
3	18615	1851.5	QPSK	1	LOW	13.75	0.0074
3	18615	1851.5	QPSK	1	MID	11.47	0.0062
3	18615	1851.5	QPSK	1	HIGH	10.49	0.0057
3	18615	1851.5	QPSK	8	LOW	5.18	0.0028
3	18615	1851.5	QPSK	8	MID	5.36	0.0029
3	18615	1851.5	QPSK	8	HIGH	5.78	0.0031
3	18615	1851.5	QPSK	15	LOW	-2.62	-0.0014
3	18615	1851.5	Q16	1	LOW	-5.01	-0.0027
3	18615	1851.5	Q16	1	MID	-5.46	-0.0029
3	18615	1851.5	Q16	1	HIGH	-6.19	-0.0033
3	18615	1851.5	Q16	8	LOW	-4.96	-0.0027
3	18615	1851.5	Q16	8	MID	-6.09	-0.0033
3	18615	1851.5	Q16	8	HIGH	-6.38	-0.0034
3	18615	1851.5	Q16	15	LOW	-2.73	-0.0015
3	18900	1880	QPSK	1	LOW	6.87	0.0037
3	18900	1880	QPSK	1	MID	-4.05	-0.0022
3	18900	1880	QPSK	1	HIGH	-7.12	-0.0038
3	18900	1880	QPSK	8	LOW	5.84	0.0031
3	18900	1880	QPSK	8	MID	7.4	0.0039
3	18900	1880	QPSK	8	HIGH	3.82	0.002
3	18900	1880	QPSK	15	LOW	5.94	0.0032
3	18900	1880	Q16	1	LOW	-6.45	-0.0034
3	18900	1880	Q16	1	MID	-3.5	-0.0019
3	18900	1880	Q16	1	HIGH	-3.68	-0.002
3	18900	1880	Q16	8	LOW	-4.25	-0.0023
3	18900	1880	Q16	8	MID	-6.68	-0.0036
3	18900	1880	Q16	8	HIGH	-6.35	-0.0034
3	18900	1880	Q16	15	LOW	3.45	0.0018

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
3	19185	1908.5	QPSK	1	LOW	-7.17	-0.0038
3	19185	1908.5	QPSK	1	MID	-6.11	-0.0032
3	19185	1908.5	QPSK	1	HIGH	4.02	0.0021
3	19185	1908.5	QPSK	8	LOW	-3.65	-0.0019
3	19185	1908.5	QPSK	8	MID	-5.68	-0.003
3	19185	1908.5	QPSK	8	HIGH	-6.15	-0.0032
3	19185	1908.5	QPSK	15	LOW	-5.95	-0.0031
3	19185	1908.5	Q16	1	LOW	-4.25	-0.0022
3	19185	1908.5	Q16	1	MID	-7.6	-0.004
3	19185	1908.5	Q16	1	HIGH	-6.07	-0.0032
3	19185	1908.5	Q16	8	LOW	-8.44	-0.0044
3	19185	1908.5	Q16	8	MID	-6.18	-0.0032
3	19185	1908.5	Q16	8	HIGH	-8.17	-0.0043
3	19185	1908.5	Q16	15	LOW	-7.1	-0.0037
5	18625	1852.5	QPSK	1	LOW	11.3	0.0061
5	18625	1852.5	QPSK	1	MID	7.28	0.0039
5	18625	1852.5	QPSK	1	HIGH	4.45	0.0024
5	18625	1852.5	QPSK	12	LOW	5.48	0.003
5	18625	1852.5	QPSK	12	MID	4.21	0.0023
5	18625	1852.5	QPSK	12	HIGH	3.42	0.0018
5	18625	1852.5	QPSK	25	LOW	3.99	0.0022
5	18625	1852.5	Q16	1	LOW	-4.53	-0.0024
5	18625	1852.5	Q16	1	MID	-4.11	-0.0022
5	18625	1852.5	Q16	1	HIGH	4.45	0.0024
5	18625	1852.5	Q16	12	LOW	3.65	0.002
5	18625	1852.5	Q16	12	MID	3.63	0.002
5	18625	1852.5	Q16	12	HIGH	-4.23	-0.0023
5	18625	1852.5	Q16	25	LOW	-4.02	-0.0022
5	18900	1880	QPSK	1	LOW	-4.71	-0.0025
5	18900	1880	QPSK	1	MID	-5.61	-0.003
5	18900	1880	QPSK	1	HIGH	-2.23	-0.0012
5	18900	1880	QPSK	12	LOW	2.52	0.0013
5	18900	1880	QPSK	12	MID	4.55	0.0024
5	18900	1880	QPSK	12	HIGH	4.63	0.0025
5	18900	1880	QPSK	25	LOW	3.38	0.0018
5	18900	1880	Q16	1	LOW	4.72	0.0025

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
5	18900	1880	Q16	1	MID	-4.28	-0.0023
5	18900	1880	Q16	1	HIGH	-7.75	-0.0041
5	18900	1880	Q16	12	LOW	4.68	0.0025
5	18900	1880	Q16	12	MID	-7.18	-0.0038
5	18900	1880	Q16	12	HIGH	5.65	0.003
5	18900	1880	Q16	25	LOW	-5.85	-0.0031
5	19175	1907.5	QPSK	1	LOW	-5.32	-0.0028
5	19175	1907.5	QPSK	1	MID	6.94	0.0036
5	19175	1907.5	QPSK	1	HIGH	4.35	0.0023
5	19175	1907.5	QPSK	12	LOW	4.86	0.0025
5	19175	1907.5	QPSK	12	MID	7.75	0.0041
5	19175	1907.5	QPSK	12	HIGH	-3.68	-0.0019
5	19175	1907.5	QPSK	25	LOW	5.15	0.0027
5	19175	1907.5	Q16	1	LOW	-3.12	-0.0016
5	19175	1907.5	Q16	1	MID	3.55	0.0019
5	19175	1907.5	Q16	1	HIGH	4.75	0.0025
5	19175	1907.5	Q16	12	LOW	6.18	0.0032
5	19175	1907.5	Q16	12	MID	-4.23	-0.0022
5	19175	1907.5	Q16	12	HIGH	7.05	0.0037
5	19175	1907.5	Q16	25	LOW	6.04	0.0032
10	18650	1855	QPSK	1	LOW	4.31	0.0023
10	18650	1855	QPSK	1	MID	2.36	0.0013
10	18650	1855	QPSK	1	HIGH	-5.02	-0.0027
10	18650	1855	QPSK	25	LOW	-4.59	-0.0025
10	18650	1855	QPSK	25	MID	-7.65	-0.0041
10	18650	1855	QPSK	25	HIGH	3.36	0.0018
10	18650	1855	QPSK	50	LOW	-4.79	-0.0026
10	18650	1855	Q16	1	LOW	-8.58	-0.0046
10	18650	1855	Q16	1	MID	-10.5	-0.0057
10	18650	1855	Q16	1	HIGH	-8.78	-0.0047
10	18650	1855	Q16	25	LOW	-5.45	-0.0029
10	18650	1855	Q16	25	MID	-5.92	-0.0032
10	18650	1855	Q16	25	HIGH	-5.58	-0.003
10	18650	1855	Q16	50	LOW	-7.31	-0.0039
10	18900	1880	QPSK	1	LOW	-5.75	-0.0031
10	18900	1880	QPSK	1	MID	-2.92	-0.0016

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
10	18900	1880	QPSK	1	HIGH	7.15	0.0038
10	18900	1880	QPSK	25	LOW	2.56	0.0014
10	18900	1880	QPSK	25	MID	-3.18	-0.0017
10	18900	1880	QPSK	25	HIGH	-5.64	-0.003
10	18900	1880	QPSK	50	LOW	-3.86	-0.0021
10	18900	1880	Q16	1	LOW	-5.87	-0.0031
10	18900	1880	Q16	1	MID	-4.02	-0.0021
10	18900	1880	Q16	1	HIGH	-3.03	-0.0016
10	18900	1880	Q16	25	LOW	-6.77	-0.0036
10	18900	1880	Q16	25	MID	-6.74	-0.0036
10	18900	1880	Q16	25	HIGH	-6.12	-0.0033
10	18900	1880	Q16	50	LOW	-4.56	-0.0024
10	19150	1905	QPSK	1	LOW	-6.05	-0.0032
10	19150	1905	QPSK	1	MID	-3.28	-0.0017
10	19150	1905	QPSK	1	HIGH	-4.18	-0.0022
10	19150	1905	QPSK	25	LOW	-5.55	-0.0029
10	19150	1905	QPSK	25	MID	-3.6	-0.0019
10	19150	1905	QPSK	25	HIGH	-7.7	-0.004
10	19150	1905	QPSK	50	LOW	-4.92	-0.0026
10	19150	1905	Q16	1	LOW	-5.95	-0.0031
10	19150	1905	Q16	1	MID	-6.24	-0.0033
10	19150	1905	Q16	1	HIGH	-7.55	-0.004
10	19150	1905	Q16	25	LOW	-4.41	-0.0023
10	19150	1905	Q16	25	MID	-4.02	-0.0021
10	19150	1905	Q16	25	HIGH	-5.16	-0.0027
10	19150	1905	Q16	50	LOW	-4.42	-0.0023
15	18675	1857.5	QPSK	1	LOW	8.05	0.0043
15	18675	1857.5	QPSK	1	MID	6.75	0.0036
15	18675	1857.5	QPSK	1	HIGH	5.81	0.0031
15	18675	1857.5	QPSK	36	LOW	3.59	0.0019
15	18675	1857.5	QPSK	36	MID	-2.92	-0.0016
15	18675	1857.5	QPSK	36	HIGH	5.71	0.0031
15	18675	1857.5	QPSK	75	LOW	-4.51	-0.0024
15	18675	1857.5	Q16	1	LOW	5.87	0.0032
15	18675	1857.5	Q16	1	MID	-4.76	-0.0026
15	18675	1857.5	Q16	1	HIGH	5.09	0.0027

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
15	18675	1857.5	Q16	36	LOW	3.33	0.0018
15	18675	1857.5	Q16	36	MID	4.59	0.0025
15	18675	1857.5	Q16	36	HIGH	4.51	0.0024
15	18675	1857.5	Q16	75	LOW	4.91	0.0026
15	18900	1880	QPSK	1	LOW	-3.96	-0.0021
15	18900	1880	QPSK	1	MID	3	0.0016
15	18900	1880	QPSK	1	HIGH	-3.42	-0.0018
15	18900	1880	QPSK	36	LOW	-4.11	-0.0022
15	18900	1880	QPSK	36	MID	-5.29	-0.0028
15	18900	1880	QPSK	36	HIGH	-3.85	-0.002
15	18900	1880	QPSK	75	LOW	-3.4	-0.0018
15	18900	1880	Q16	1	LOW	-7.07	-0.0038
15	18900	1880	Q16	1	MID	-5.65	-0.003
15	18900	1880	Q16	1	HIGH	-5.26	-0.0028
15	18900	1880	Q16	36	LOW	-5.04	-0.0027
15	18900	1880	Q16	36	MID	-5.09	-0.0027
15	18900	1880	Q16	36	HIGH	-5.55	-0.003
15	18900	1880	Q16	75	LOW	-5.08	-0.0027
15	19125	1902.5	QPSK	1	LOW	7.55	0.004
15	19125	1902.5	QPSK	1	MID	13.95	0.0073
15	19125	1902.5	QPSK	1	HIGH	12.06	0.0063
15	19125	1902.5	QPSK	36	LOW	14.71	0.0077
15	19125	1902.5	QPSK	36	MID	4.82	0.0025
15	19125	1902.5	QPSK	36	HIGH	3.49	0.0018
15	19125	1902.5	QPSK	75	LOW	4.96	0.0026
15	19125	1902.5	Q16	1	LOW	4.81	0.0025
15	19125	1902.5	Q16	1	MID	3.73	0.002
15	19125	1902.5	Q16	1	HIGH	4.89	0.0026
15	19125	1902.5	Q16	36	LOW	4.51	0.0024
15	19125	1902.5	Q16	36	MID	5.42	0.0028
15	19125	1902.5	Q16	36	HIGH	-5.31	-0.0028
15	19125	1902.5	Q16	75	LOW	4.28	0.0022
20	18700	1860	QPSK	1	LOW	7.98	0.0043
20	18700	1860	QPSK	1	MID	5.91	0.0032
20	18700	1860	QPSK	1	HIGH	7.72	0.0042
20	18700	1860	QPSK	50	LOW	4.78	0.0026

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
20	18700	1860	QPSK	50	MID	3.78	0.002
20	18700	1860	QPSK	50	HIGH	4.05	0.0022
20	18700	1860	QPSK	100	LOW	-5.19	-0.0028
20	18700	1860	Q16	1	LOW	3.71	0.002
20	18700	1860	Q16	1	MID	-4.15	-0.0022
20	18700	1860	Q16	1	HIGH	6.92	0.0037
20	18700	1860	Q16	50	LOW	4.23	0.0023
20	18700	1860	Q16	50	MID	-2.46	-0.0013
20	18700	1860	Q16	50	HIGH	-5.26	-0.0028
20	18700	1860	Q16	100	LOW	-3.98	-0.0021
20	18900	1880	QPSK	1	LOW	-5.35	-0.0028
20	18900	1880	QPSK	1	MID	-3.96	-0.0021
20	18900	1880	QPSK	1	HIGH	3.72	0.002
20	18900	1880	QPSK	50	LOW	3.82	0.002
20	18900	1880	QPSK	50	MID	6.92	0.0037
20	18900	1880	QPSK	50	HIGH	-5.34	-0.0028
20	18900	1880	QPSK	100	LOW	-4.85	-0.0026
20	18900	1880	Q16	1	LOW	-4.68	-0.0025
20	18900	1880	Q16	1	MID	5.42	0.0029
20	18900	1880	Q16	1	HIGH	6.05	0.0032
20	18900	1880	Q16	50	LOW	-3.36	-0.0018
20	18900	1880	Q16	50	MID	-4.18	-0.0022
20	18900	1880	Q16	50	HIGH	-3.75	-0.002
20	18900	1880	Q16	100	LOW	4.28	0.0023
20	19100	1900	QPSK	1	LOW	7.47	0.0039
20	19100	1900	QPSK	1	MID	5.05	0.0027
20	19100	1900	QPSK	1	HIGH	3.68	0.0019
20	19100	1900	QPSK	50	LOW	10.73	0.0056
20	19100	1900	QPSK	50	MID	2.95	0.0016
20	19100	1900	QPSK	50	HIGH	4.05	0.0021
20	19100	1900	QPSK	100	LOW	-5.29	-0.0028
20	19100	1900	Q16	1	LOW	-8.48	-0.0045
20	19100	1900	Q16	1	MID	-7.2	-0.0038
20	19100	1900	Q16	1	HIGH	-8.47	-0.0045
20	19100	1900	Q16	50	LOW	-4.84	-0.0025
20	19100	1900	Q16	50	MID	-4.09	-0.0022

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Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
20	19100	1900	Q16	50	HIGH	-5.28	-0.0028
20	19100	1900	Q16	100	LOW	-6.71	-0.0035

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	19957	1710.7	QPSK	1	LOW	-9.91	-0.0058
1.4	19957	1710.7	QPSK	1	MID	5.35	0.0031
1.4	19957	1710.7	QPSK	1	HIGH	2.63	0.0015
1.4	19957	1710.7	QPSK	3	LOW	3.2	0.0019
1.4	19957	1710.7	QPSK	3	MID	-3.06	-0.0018
1.4	19957	1710.7	QPSK	3	HIGH	5.61	0.0033
1.4	19957	1710.7	QPSK	6	LOW	6.44	0.0038
1.4	19957	1710.7	Q16	1	LOW	6.04	0.0035
1.4	19957	1710.7	Q16	1	MID	4.63	0.0027
1.4	19957	1710.7	Q16	1	HIGH	8.41	0.0049
1.4	19957	1710.7	Q16	3	LOW	-5.72	-0.0033
1.4	19957	1710.7	Q16	3	MID	6.74	0.0039
1.4	19957	1710.7	Q16	3	HIGH	4.49	0.0026
1.4	19957	1710.7	Q16	6	LOW	7.47	0.0044
1.4	20393	1754.3	QPSK	1	LOW	3.69	0.0021
1.4	20393	1754.3	QPSK	1	MID	4.15	0.0024
1.4	20393	1754.3	QPSK	1	HIGH	-3.68	-0.0021
1.4	20393	1754.3	QPSK	3	LOW	-2.93	-0.0017
1.4	20393	1754.3	QPSK	3	MID	-4.46	-0.0025
1.4	20393	1754.3	QPSK	3	HIGH	-3.99	-0.0023
1.4	20393	1754.3	QPSK	6	LOW	3.91	0.0022
1.4	20393	1754.3	Q16	1	LOW	-4.55	-0.0026
1.4	20393	1754.3	Q16	1	MID	-6.24	-0.0036
1.4	20393	1754.3	Q16	1	HIGH	-5.02	-0.0029
1.4	20393	1754.3	Q16	3	LOW	-5.06	-0.0029
1.4	20393	1754.3	Q16	3	MID	-2.62	-0.0015
1.4	20393	1754.3	Q16	3	HIGH	3.26	0.0019
1.4	20393	1754.3	Q16	6	LOW	5.06	0.0029
1.4	20175	1732.5	QPSK	1	LOW	3.78	0.0022
1.4	20175	1732.5	QPSK	1	MID	-6.09	-0.0035
1.4	20175	1732.5	QPSK	1	HIGH	3.6	0.0021
1.4	20175	1732.5	QPSK	3	LOW	5.79	0.0033
1.4	20175	1732.5	QPSK	3	MID	8.5	0.0049
1.4	20175	1732.5	QPSK	3	HIGH	5.52	0.0032

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	20175	1732.5	QPSK	6	LOW	2.85	0.0016
1.4	20175	1732.5	Q16	1	LOW	-4.38	-0.0025
1.4	20175	1732.5	Q16	1	MID	-3.2	-0.0018
1.4	20175	1732.5	Q16	1	HIGH	-3.71	-0.0021
1.4	20175	1732.5	Q16	3	LOW	-3.23	-0.0019
1.4	20175	1732.5	Q16	3	MID	-2.19	-0.0013
1.4	20175	1732.5	Q16	3	HIGH	4.22	0.0024
1.4	20175	1732.5	Q16	6	LOW	-2.68	-0.0015
3	19965	1711.5	QPSK	1	LOW	-11.4	-0.0067
3	19965	1711.5	QPSK	1	MID	6.55	0.0038
3	19965	1711.5	QPSK	1	HIGH	4.88	0.0029
3	19965	1711.5	QPSK	8	LOW	-5.94	-0.0035
3	19965	1711.5	QPSK	8	MID	-5.42	-0.0032
3	19965	1711.5	QPSK	8	HIGH	2.13	0.0012
3	19965	1711.5	QPSK	15	LOW	4.75	0.0028
3	19965	1711.5	Q16	1	LOW	-2.26	-0.0013
3	19965	1711.5	Q16	1	MID	2.93	0.0017
3	19965	1711.5	Q16	1	HIGH	-5.11	-0.003
3	19965	1711.5	Q16	8	LOW	-5.71	-0.0033
3	19965	1711.5	Q16	8	MID	-4.85	-0.0028
3	19965	1711.5	Q16	8	HIGH	-4.45	-0.0026
3	19965	1711.5	Q16	15	LOW	-3.83	-0.0022
3	20385	1753.5	QPSK	1	LOW	4.63	0.0026
3	20385	1753.5	QPSK	1	MID	-3.03	-0.0017
3	20385	1753.5	QPSK	1	HIGH	-3.38	-0.0019
3	20385	1753.5	QPSK	8	LOW	4.18	0.0024
3	20385	1753.5	QPSK	8	MID	-3.16	-0.0018
3	20385	1753.5	QPSK	8	HIGH	-4.01	-0.0023
3	20385	1753.5	QPSK	15	LOW	3.45	0.002
3	20385	1753.5	Q16	1	LOW	-6.12	-0.0035
3	20385	1753.5	Q16	1	MID	-5.51	-0.0031
3	20385	1753.5	Q16	1	HIGH	-8.17	-0.0047
3	20385	1753.5	Q16	8	LOW	-7.35	-0.0042
3	20385	1753.5	Q16	8	MID	-5.06	-0.0029
3	20385	1753.5	Q16	8	HIGH	-5.35	-0.0031
3	20385	1753.5	Q16	15	LOW	-5.12	-0.0029

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
3	20175	1732.5	QPSK	1	LOW	-4.69	-0.0027
3	20175	1732.5	QPSK	1	MID	-7.07	-0.0041
3	20175	1732.5	QPSK	1	HIGH	-4.39	-0.0025
3	20175	1732.5	QPSK	8	LOW	4.73	0.0027
3	20175	1732.5	QPSK	8	MID	5.98	0.0035
3	20175	1732.5	QPSK	8	HIGH	7.7	0.0044
3	20175	1732.5	QPSK	15	LOW	6.9	0.004
3	20175	1732.5	Q16	1	LOW	-4.56	-0.0026
3	20175	1732.5	Q16	1	MID	-5.05	-0.0029
3	20175	1732.5	Q16	1	HIGH	3.59	0.0021
3	20175	1732.5	Q16	8	LOW	-3.6	-0.0021
3	20175	1732.5	Q16	8	MID	-6.09	-0.0035
3	20175	1732.5	Q16	8	HIGH	-4.91	-0.0028
3	20175	1732.5	Q16	15	LOW	-5.92	-0.0034
5	19975	1712.5	QPSK	1	LOW	-5.52	-0.0032
5	19975	1712.5	QPSK	1	MID	8.04	0.0047
5	19975	1712.5	QPSK	1	HIGH	5.91	0.0035
5	19975	1712.5	QPSK	12	LOW	8.54	0.005
5	19975	1712.5	QPSK	12	MID	5.85	0.0034
5	19975	1712.5	QPSK	12	HIGH	4.63	0.0027
5	19975	1712.5	QPSK	25	LOW	5.42	0.0032
5	19975	1712.5	Q16	1	LOW	6.52	0.0038
5	19975	1712.5	Q16	1	MID	5.66	0.0033
5	19975	1712.5	Q16	1	HIGH	6.42	0.0037
5	19975	1712.5	Q16	12	LOW	8.28	0.0048
5	19975	1712.5	Q16	12	MID	7.61	0.0044
5	19975	1712.5	Q16	12	HIGH	4.48	0.0026
5	19975	1712.5	Q16	25	LOW	4.53	0.0026
5	20375	1752.5	QPSK	1	LOW	-3.99	-0.0023
5	20375	1752.5	QPSK	1	MID	-3.02	-0.0017
5	20375	1752.5	QPSK	1	HIGH	4.15	0.0024
5	20375	1752.5	QPSK	12	LOW	4.58	0.0026
5	20375	1752.5	QPSK	12	MID	3.39	0.0019
5	20375	1752.5	QPSK	12	HIGH	-6.58	-0.0038
5	20375	1752.5	QPSK	25	LOW	3.16	0.0018
5	20375	1752.5	Q16	1	LOW	2.57	0.0015

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
5	20375	1752.5	Q16	1	MID	-5.39	-0.0031
5	20375	1752.5	Q16	1	HIGH	5.66	0.0032
5	20375	1752.5	Q16	12	LOW	2.73	0.0016
5	20375	1752.5	Q16	12	MID	-5.25	-0.003
5	20375	1752.5	Q16	12	HIGH	-4.42	-0.0025
5	20375	1752.5	Q16	25	LOW	-3.72	-0.0021
5	20175	1732.5	QPSK	1	LOW	-4.75	-0.0027
5	20175	1732.5	QPSK	1	MID	-5.36	-0.0031
5	20175	1732.5	QPSK	1	HIGH	3.3	0.0019
5	20175	1732.5	QPSK	12	LOW	-3.96	-0.0023
5	20175	1732.5	QPSK	12	MID	4.66	0.0027
5	20175	1732.5	QPSK	12	HIGH	5.42	0.0031
5	20175	1732.5	QPSK	25	LOW	5.08	0.0029
5	20175	1732.5	Q16	1	LOW	-3.2	-0.0018
5	20175	1732.5	Q16	1	MID	3.76	0.0022
5	20175	1732.5	Q16	1	HIGH	-4.22	-0.0024
5	20175	1732.5	Q16	12	LOW	3.81	0.0022
5	20175	1732.5	Q16	12	MID	4.15	0.0024
5	20175	1732.5	Q16	12	HIGH	-2.89	-0.0017
5	20175	1732.5	Q16	25	LOW	-3.59	-0.0021
10	20000	1715	QPSK	1	LOW	-8.24	-0.0048
10	20000	1715	QPSK	1	MID	-4.66	-0.0027
10	20000	1715	QPSK	1	HIGH	-6.88	-0.004
10	20000	1715	QPSK	25	LOW	-5.05	-0.0029
10	20000	1715	QPSK	25	MID	-4.06	-0.0024
10	20000	1715	QPSK	25	HIGH	-3.38	-0.002
10	20000	1715	QPSK	50	LOW	-4.91	-0.0029
10	20000	1715	Q16	1	LOW	-3.49	-0.002
10	20000	1715	Q16	1	MID	-3.6	-0.0021
10	20000	1715	Q16	1	HIGH	-4.91	-0.0029
10	20000	1715	Q16	25	LOW	-6.54	-0.0038
10	20000	1715	Q16	25	MID	-6.09	-0.0036
10	20000	1715	Q16	25	HIGH	-8.8	-0.0051
10	20000	1715	Q16	50	LOW	-2.65	-0.0015
10	20350	1750	QPSK	1	LOW	-3.93	-0.0022
10	20350	1750	QPSK	1	MID	-2.69	-0.0015

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
10	20350	1750	QPSK	1	HIGH	3.58	0.002
10	20350	1750	QPSK	25	LOW	-3.19	-0.0018
10	20350	1750	QPSK	25	MID	-2.82	-0.0016
10	20350	1750	QPSK	25	HIGH	5.89	0.0034
10	20350	1750	QPSK	50	LOW	-5.75	-0.0033
10	20350	1750	Q16	1	LOW	-5.94	-0.0034
10	20350	1750	Q16	1	MID	-5.02	-0.0029
10	20350	1750	Q16	1	HIGH	-4.28	-0.0024
10	20350	1750	Q16	25	LOW	2.15	0.0012
10	20350	1750	Q16	25	MID	-3.38	-0.0019
10	20350	1750	Q16	25	HIGH	-3.68	-0.0021
10	20350	1750	Q16	50	LOW	-4.88	-0.0028
10	20175	1732.5	QPSK	1	LOW	-7.02	-0.0041
10	20175	1732.5	QPSK	1	MID	-4.28	-0.0025
10	20175	1732.5	QPSK	1	HIGH	-3.55	-0.002
10	20175	1732.5	QPSK	25	LOW	-3.91	-0.0023
10	20175	1732.5	QPSK	25	MID	-6.39	-0.0037
10	20175	1732.5	QPSK	25	HIGH	-5.79	-0.0033
10	20175	1732.5	QPSK	50	LOW	-5.06	-0.0029
10	20175	1732.5	Q16	1	LOW	-6.25	-0.0036
10	20175	1732.5	Q16	1	MID	-5.34	-0.0031
10	20175	1732.5	Q16	1	HIGH	-5.22	-0.003
10	20175	1732.5	Q16	25	LOW	-3.12	-0.0018
10	20175	1732.5	Q16	25	MID	-5.89	-0.0034
10	20175	1732.5	Q16	25	HIGH	-6.02	-0.0035
10	20175	1732.5	Q16	50	LOW	-4.36	-0.0025
15	20025	1717.5	QPSK	1	LOW	-7.44	-0.0043
15	20025	1717.5	QPSK	1	MID	-5.34	-0.0031
15	20025	1717.5	QPSK	1	HIGH	4.49	0.0026
15	20025	1717.5	QPSK	36	LOW	4.11	0.0024
15	20025	1717.5	QPSK	36	MID	-5.36	-0.0031
15	20025	1717.5	QPSK	36	HIGH	-3.66	-0.0021
15	20025	1717.5	QPSK	75	LOW	-2.26	-0.0013
15	20025	1717.5	Q16	1	LOW	3.53	0.0021
15	20025	1717.5	Q16	1	MID	3.86	0.0022
15	20025	1717.5	Q16	1	HIGH	-5.58	-0.0032

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
15	20025	1717.5	Q16	36	LOW	5.38	0.0031
15	20025	1717.5	Q16	36	MID	-4.25	-0.0025
15	20025	1717.5	Q16	36	HIGH	-4.36	-0.0025
15	20025	1717.5	Q16	75	LOW	-3.36	-0.002
15	20325	1747.5	QPSK	1	LOW	-7.2	-0.0041
15	20325	1747.5	QPSK	1	MID	-3.92	-0.0022
15	20325	1747.5	QPSK	1	HIGH	-5.39	-0.0031
15	20325	1747.5	QPSK	36	LOW	-3.85	-0.0022
15	20325	1747.5	QPSK	36	MID	-2.42	-0.0014
15	20325	1747.5	QPSK	36	HIGH	-5.28	-0.003
15	20325	1747.5	QPSK	75	LOW	-4.94	-0.0028
15	20325	1747.5	Q16	1	LOW	-6.27	-0.0036
15	20325	1747.5	Q16	1	MID	-7.11	-0.0041
15	20325	1747.5	Q16	1	HIGH	-4.23	-0.0024
15	20325	1747.5	Q16	36	LOW	-4.51	-0.0026
15	20325	1747.5	Q16	36	MID	-4.52	-0.0026
15	20325	1747.5	Q16	36	HIGH	-5.31	-0.003
15	20325	1747.5	Q16	75	LOW	-2.92	-0.0017
15	20175	1732.5	QPSK	1	LOW	4.39	0.0025
15	20175	1732.5	QPSK	1	MID	6.34	0.0037
15	20175	1732.5	QPSK	1	HIGH	5.94	0.0034
15	20175	1732.5	QPSK	36	LOW	7.11	0.0041
15	20175	1732.5	QPSK	36	MID	6.15	0.0035
15	20175	1732.5	QPSK	36	HIGH	5.22	0.003
15	20175	1732.5	QPSK	75	LOW	4.91	0.0028
15	20175	1732.5	Q16	1	LOW	5.48	0.0032
15	20175	1732.5	Q16	1	MID	4.82	0.0028
15	20175	1732.5	Q16	1	HIGH	-4.38	-0.0025
15	20175	1732.5	Q16	36	LOW	4.02	0.0023
15	20175	1732.5	Q16	36	MID	5.25	0.003
15	20175	1732.5	Q16	36	HIGH	3.81	0.0022
15	20175	1732.5	Q16	75	LOW	4.02	0.0023
20	20050	1720	QPSK	1	LOW	-8.55	-0.005
20	20050	1720	QPSK	1	MID	7.01	0.0041
20	20050	1720	QPSK	1	HIGH	4.52	0.0026
20	20050	1720	QPSK	50	LOW	4.99	0.0029

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
20	20050	1720	QPSK	50	MID	-3.81	-0.0022
20	20050	1720	QPSK	50	HIGH	-4.02	-0.0023
20	20050	1720	QPSK	100	LOW	3.71	0.0022
20	20050	1720	Q16	1	LOW	-5.11	-0.003
20	20050	1720	Q16	1	MID	-6.55	-0.0038
20	20050	1720	Q16	1	HIGH	-9.08	-0.0053
20	20050	1720	Q16	50	LOW	3.25	0.0019
20	20050	1720	Q16	50	MID	-2.36	-0.0014
20	20050	1720	Q16	50	HIGH	-5.31	-0.0031
20	20050	1720	Q16	100	LOW	2.37	0.0014
20	20300	1745	QPSK	1	LOW	-5.05	-0.0029
20	20300	1745	QPSK	1	MID	-4.33	-0.0025
20	20300	1745	QPSK	1	HIGH	-3.36	-0.0019
20	20300	1745	QPSK	50	LOW	4.49	0.0026
20	20300	1745	QPSK	50	MID	3.81	0.0022
20	20300	1745	QPSK	50	HIGH	-3.66	-0.0021
20	20300	1745	QPSK	100	LOW	-4.38	-0.0025
20	20300	1745	Q16	1	LOW	-6.71	-0.0038
20	20300	1745	Q16	1	MID	5.69	0.0033
20	20300	1745	Q16	1	HIGH	-5.02	-0.0029
20	20300	1745	Q16	50	LOW	-3.83	-0.0022
20	20300	1745	Q16	50	MID	-3.45	-0.002
20	20300	1745	Q16	50	HIGH	-4.94	-0.0028
20	20300	1745	Q16	100	LOW	-4.65	-0.0027
20	20175	1732.5	QPSK	1	LOW	8.65	0.005
20	20175	1732.5	QPSK	1	MID	-7.52	-0.0043
20	20175	1732.5	QPSK	1	HIGH	3.6	0.0021
20	20175	1732.5	QPSK	50	LOW	3.5	0.002
20	20175	1732.5	QPSK	50	MID	3.96	0.0023
20	20175	1732.5	QPSK	50	HIGH	-5.79	-0.0033
20	20175	1732.5	QPSK	100	LOW	-2.8	-0.0016
20	20175	1732.5	Q16	1	LOW	6.68	0.0039
20	20175	1732.5	Q16	1	MID	3.88	0.0022
20	20175	1732.5	Q16	1	HIGH	-4.02	-0.0023
20	20175	1732.5	Q16	50	LOW	-2.62	-0.0015
20	20175	1732.5	Q16	50	MID	2.88	0.0017

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
20	20175	1732.5	Q16	50	HIGH	3.06	0.0018
20	20175	1732.5	Q16	100	LOW	-4.94	-0.0029

BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
5	20775	2502.5	QPSK	1	LOW	-11.19	-0.0045
5	20775	2502.5	QPSK	1	MID	6.54	0.0026
5	20775	2502.5	QPSK	1	HIGH	6.47	0.0026
5	20775	2502.5	QPSK	12	LOW	4.32	0.0017
5	20775	2502.5	QPSK	12	MID	-2.53	-0.001
5	20775	2502.5	QPSK	12	HIGH	3.56	0.0014
5	20775	2502.5	QPSK	25	LOW	5.12	0.002
5	20775	2502.5	Q16	1	LOW	5.79	0.0023
5	20775	2502.5	Q16	1	MID	-4.78	-0.0019
5	20775	2502.5	Q16	1	HIGH	-6.61	-0.0026
5	20775	2502.5	Q16	12	LOW	4.23	0.0017
5	20775	2502.5	Q16	12	MID	-4.79	-0.0019
5	20775	2502.5	Q16	12	HIGH	-3.93	-0.0016
5	20775	2502.5	Q16	25	LOW	3.52	0.0014
5	21425	2567.5	QPSK	1	LOW	6.94	0.0027
5	21425	2567.5	QPSK	1	MID	4.85	0.0019
5	21425	2567.5	QPSK	1	HIGH	8.63	0.0034
5	21425	2567.5	QPSK	12	LOW	5.32	0.0021
5	21425	2567.5	QPSK	12	MID	8.73	0.0034
5	21425	2567.5	QPSK	12	HIGH	6.82	0.0027
5	21425	2567.5	QPSK	25	LOW	6.69	0.0026
5	21425	2567.5	Q16	1	LOW	7.58	0.003
5	21425	2567.5	Q16	1	MID	4.79	0.0019
5	21425	2567.5	Q16	1	HIGH	3.59	0.0014
5	21425	2567.5	Q16	12	LOW	8.21	0.0032
5	21425	2567.5	Q16	12	MID	6.42	0.0025
5	21425	2567.5	Q16	12	HIGH	8.31	0.0032
5	21425	2567.5	Q16	25	LOW	6.17	0.0024
5	21100	2535	QPSK	1	LOW	4.41	0.0017
5	21100	2535	QPSK	1	MID	7.24	0.0029
5	21100	2535	QPSK	1	HIGH	5.72	0.0023
5	21100	2535	QPSK	12	LOW	5.91	0.0023
5	21100	2535	QPSK	12	MID	-3.29	-0.0013
5	21100	2535	QPSK	12	HIGH	3.81	0.0015
5	21100	2535	QPSK	25	LOW	6.11	0.0024

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
5	21100	2535	QPSK	1	LOW	4.22	0.0017
5	21100	2535	QPSK	1	MID	5.85	0.0023
5	21100	2535	QPSK	1	HIGH	4.28	0.0017
5	21100	2535	QPSK	12	LOW	7.8	0.0031
5	21100	2535	QPSK	12	MID	6.41	0.0025
5	21100	2535	QPSK	12	HIGH	4.32	0.0017
5	21100	2535	QPSK	25	LOW	7.02	0.0028
10	20800	2505	QPSK	1	LOW	-9.74	-0.0039
10	20800	2505	QPSK	1	MID	4.13	0.0016
10	20800	2505	QPSK	1	HIGH	4.79	0.0019
10	20800	2505	QPSK	25	LOW	4.85	0.0019
10	20800	2505	QPSK	25	MID	-5.05	-0.002
10	20800	2505	QPSK	25	HIGH	-4.33	-0.0017
10	20800	2505	QPSK	50	LOW	7.27	0.0029
10	20800	2505	Q16	1	LOW	6.22	0.0025
10	20800	2505	Q16	1	MID	-4.08	-0.0016
10	20800	2505	Q16	1	HIGH	-4.89	-0.002
10	20800	2505	Q16	25	LOW	6.37	0.0025
10	20800	2505	Q16	25	MID	3.45	0.0014
10	20800	2505	Q16	25	HIGH	4.21	0.0017
10	20800	2505	Q16	50	LOW	-4.51	-0.0018
10	21400	2565	QPSK	1	LOW	-5.52	-0.0022
10	21400	2565	QPSK	1	MID	6.09	0.0024
10	21400	2565	QPSK	1	HIGH	-5.06	-0.002
10	21400	2565	QPSK	25	LOW	8	0.0031
10	21400	2565	QPSK	25	MID	3.98	0.0016
10	21400	2565	QPSK	25	HIGH	-5.01	-0.002
10	21400	2565	QPSK	50	LOW	3.3	0.0013
10	21400	2565	QPSK	1	LOW	5.09	0.002
10	21400	2565	QPSK	1	MID	-5.75	-0.0022
10	21400	2565	QPSK	1	HIGH	-3.89	-0.0015
10	21400	2565	Q16	25	LOW	6.69	0.0026
10	21400	2565	Q16	25	MID	6.05	0.0024
10	21400	2565	Q16	25	HIGH	-4.52	-0.0018
10	21400	2565	Q16	50	LOW	-4.53	-0.0018
10	21100	2535	QPSK	1	LOW	5.69	0.0022

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
10	21100	2535	QPSK	1	MID	5.04	0.002
10	21100	2535	QPSK	1	HIGH	6.25	0.0025
10	21100	2535	QPSK	25	LOW	8.58	0.0034
10	21100	2535	QPSK	25	MID	6.55	0.0026
10	21100	2535	QPSK	25	HIGH	6.22	0.0025
10	21100	2535	QPSK	50	LOW	6.9	0.0027
10	21100	2535	QPSK	1	LOW	6.38	0.0025
10	21100	2535	QPSK	1	MID	6.71	0.0026
10	21100	2535	QPSK	1	HIGH	5.75	0.0023
10	21100	2535	Q16	25	LOW	7.8	0.0031
10	21100	2535	Q16	25	MID	8.34	0.0033
10	21100	2535	Q16	25	HIGH	5.97	0.0024
10	21100	2535	Q16	50	LOW	8.9	0.0035
15	20825	2507.5	QPSK	1	LOW	-10.2	-0.0041
15	20825	2507.5	QPSK	1	MID	3.79	0.0015
15	20825	2507.5	QPSK	1	HIGH	3.05	0.0012
15	20825	2507.5	QPSK	36	LOW	3.81	0.0015
15	20825	2507.5	QPSK	36	MID	-4.23	-0.0017
15	20825	2507.5	QPSK	36	HIGH	4.51	0.0018
15	20825	2507.5	QPSK	75	LOW	-6.61	-0.0026
15	20825	2507.5	Q16	1	LOW	-4.13	-0.0016
15	20825	2507.5	Q16	1	MID	5.74	0.0023
15	20825	2507.5	Q16	1	HIGH	-5.48	-0.0022
15	20825	2507.5	Q16	36	LOW	5.36	0.0021
15	20825	2507.5	Q16	36	MID	-3.75	-0.0015
15	20825	2507.5	Q16	36	HIGH	-6.28	-0.0025
15	20825	2507.5	Q16	75	LOW	-5.62	-0.0022
15	21375	2562.5	QPSK	1	LOW	-7.21	-0.0028
15	21375	2562.5	QPSK	1	MID	5.35	0.0021
15	21375	2562.5	QPSK	1	HIGH	3.81	0.0015
15	21375	2562.5	QPSK	36	LOW	6.11	0.0024
15	21375	2562.5	QPSK	36	MID	8.34	0.0033
15	21375	2562.5	QPSK	36	HIGH	7	0.0027
15	21375	2562.5	QPSK	75	LOW	6.61	0.0026
15	21375	2562.5	Q16	1	LOW	-4.26	-0.0017
15	21375	2562.5	Q16	1	MID	-7.04	-0.0027

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
15	21375	2562.5	Q16	1	HIGH	5.21	0.002
15	21375	2562.5	Q16	36	LOW	5.98	0.0023
15	21375	2562.5	Q16	36	MID	-3.68	-0.0014
15	21375	2562.5	Q16	36	HIGH	5.59	0.0022
15	21375	2562.5	Q16	75	LOW	4.63	0.0018
15	21100	2535	QPSK	1	LOW	7.82	0.0031
15	21100	2535	QPSK	1	MID	6.48	0.0026
15	21100	2535	QPSK	1	HIGH	5.18	0.002
15	21100	2535	QPSK	36	LOW	9.03	0.0036
15	21100	2535	QPSK	36	MID	12.06	0.0048
15	21100	2535	QPSK	36	HIGH	6.22	0.0025
15	21100	2535	QPSK	75	LOW	6.32	0.0025
15	21100	2535	Q16	1	LOW	8.38	0.0033
15	21100	2535	Q16	1	MID	8.14	0.0032
15	21100	2535	Q16	1	HIGH	11.22	0.0044
15	21100	2535	Q16	36	LOW	5.76	0.0023
15	21100	2535	Q16	36	MID	9.73	0.0038
15	21100	2535	Q16	36	HIGH	7.84	0.0031
15	21100	2535	Q16	75	LOW	6.92	0.0027
20	20850	2510	QPSK	1	LOW	-6.51	-0.0026
20	20850	2510	QPSK	1	MID	9.7	0.0039
20	20850	2510	QPSK	1	HIGH	7.44	0.003
20	20850	2510	QPSK	50	LOW	4.02	0.0016
20	20850	2510	QPSK	50	MID	6.49	0.0026
20	20850	2510	QPSK	50	HIGH	5.55	0.0022
20	20850	2510	QPSK	100	LOW	6.09	0.0024
20	20850	2510	Q16	1	LOW	4.91	0.002
20	20850	2510	Q16	1	MID	5.42	0.0022
20	20850	2510	Q16	1	HIGH	7.24	0.0029
20	20850	2510	Q16	50	LOW	5.87	0.0023
20	20850	2510	Q16	50	MID	4.68	0.0019
20	20850	2510	Q16	50	HIGH	6.65	0.0026
20	20850	2510	Q16	100	LOW	8.81	0.0035
20	21350	2560	QPSK	1	LOW	-13.15	-0.0051
20	21350	2560	QPSK	1	MID	-5.85	-0.0023
20	21350	2560	QPSK	1	HIGH	-4.71	-0.0018

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
20	21350	2560	QPSK	50	LOW	5.48	0.0021
20	21350	2560	QPSK	50	MID	-4.95	-0.0019
20	21350	2560	QPSK	50	HIGH	-9.06	-0.0035
20	21350	2560	QPSK	100	LOW	-6.42	-0.0025
20	21350	2560	Q16	1	LOW	-10.79	-0.0042
20	21350	2560	Q16	1	MID	-8.73	-0.0034
20	21350	2560	Q16	1	HIGH	-8.98	-0.0035
20	21350	2560	Q16	50	LOW	-4.41	-0.0017
20	21350	2560	Q16	50	MID	-5.15	-0.002
20	21350	2560	Q16	50	HIGH	-5.38	-0.0021
20	21350	2560	Q16	100	LOW	-5.69	-0.0022
20	21100	2535	QPSK	1	LOW	-4.26	-0.0017
20	21100	2535	QPSK	1	MID	6.77	0.0027
20	21100	2535	QPSK	1	HIGH	7.21	0.0028
20	21100	2535	QPSK	50	LOW	8.17	0.0032
20	21100	2535	QPSK	50	MID	7.8	0.0031
20	21100	2535	QPSK	50	HIGH	6.72	0.0027
20	21100	2535	QPSK	100	LOW	6.69	0.0026
20	21100	2535	Q16	1	LOW	7.27	0.0029
20	21100	2535	Q16	1	MID	4.62	0.0018
20	21100	2535	Q16	1	HIGH	5.14	0.002
20	21100	2535	Q16	50	LOW	4.65	0.0018
20	21100	2535	Q16	50	MID	6.54	0.0026
20	21100	2535	Q16	50	HIGH	-6.04	-0.0024
20	21100	2535	Q16	100	LOW	5.15	0.002

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