

FCC LTE REPORT

FCC Certification

Applicant Name:
LG Electronics MobileComm U.S.A., Inc.

Date of Issue:
June 30, 2017

Location:

Address:
1000 Sylvan Avenue, Englewood Cliffs NJ 07632

HCT CO., LTD.,
74, Seoicheon-ro 578beon-gil, Majang-myeon,
Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-R-1706-F110
HCT FRN: 0005866421

FCC ID: ZNFM700Z

APPLICANT: LG Electronics MobileComm U.S.A., Inc.

FCC Model(s): LG-M700Z
Additional FCC Model(s): LGM700Z, M700Z, LG-M700DSK, LGM700DSK, M700DSK
EUT Type: GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11 b/g/n
FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s): §2, §27

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band41 (5)	2498.5 – 2687.5	4M50G7D	QPSK	0.106	20.24
		4M50W7D	16QAM	0.079	19.00
LTE – Band41 (10)	2501.0 – 2685.0	8M93G7D	QPSK	0.106	20.25
		8M95W7D	16QAM	0.080	19.05
LTE – Band41 (15)	2503.5 – 2682.5	13M4G7D	QPSK	0.111	20.45
		13M4W7D	16QAM	0.080	19.02
LTE – Band41 (20)	2506.0 – 2680.0	17M9G7D	QPSK	0.103	20.13
		17M8W7D	16QAM	0.077	18.88

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C.853(a)



Report prepared by : Jeong Ho Kim
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Report approved by : Jong Seok Lee
Manager of Telecommunication Testing Center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1706-F110	June 30, 2017	- First Approval Report

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: LG Electronics MobileComm U.S.A., Inc.

Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632

FCC ID: ZNFM700Z

Application Type: Certification

FCC Classification: Licensed Portable Transmitter Held to Ear (PCE)

FCC Rule Part(s): §2 , §27

EUT Type: GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11 b/g/n

FCC Model(s): LG-M700Z

Additional FCC Model(s): LGM700Z, M700Z, LG-M700DSK, LGM700DSK, M700DSK

Tx Frequency: 2498.5 MHz – 2687.5 MHz (LTE – Band 41): 5 MHz
2501.0 MHz – 2685.0 MHz (LTE – Band 41): 10 MHz
2503.5 MHz – 2682.5 MHz (LTE – Band 41): 15 MHz
2506.0 MHz – 2680.0 MHz (LTE – Band 41): 20 MHz

Max. RF Output Power: Band 41 (5 MHz) : 0.106 W (QPSK) (20.24 dBm)
0.079 W (16-QAM) (19.00 dBm)
Band 41 (10 MHz) : 0.106 W (QPSK) (20.25 dBm)
0.080 W (16-QAM) (19.05 dBm)
Band 41 (15 MHz) : 0.111 W (QPSK) (20.45 dBm)
0.080 W (16-QAM) (19.02 dBm)
Band 41 (20 MHz) : 0.103 W (QPSK) (20.13 dBm)
0.077 W (16-QAM) (18.88 dBm)

Emission Designator(s): Band 41 (5 MHz) : 4M50G7D (QPSK) / 4M50W7D (16-QAM)
Band 41 (10 MHz) : 8M93G7D (QPSK) / 8M95W7D (16-QAM)
Band 41 (15 MHz) : 13M4G7D (QPSK) / 13M4W7D (16-QAM)
Band 41 (20 MHz) : 17M9G7D (QPSK) / 17M8W7D (16-QAM)

Date(s) of Tests: April 25, 2017 ~ June 30, 2017

2. INTRODUCTION

2.1. EUT DESCRIPTION

The LG Electronics MobileComm U.S.A., Inc. LG-M700Z GSM/WCDMA/LTE Phone with Bluetooth4.2LE, WIFI802.11 b/g/n consists of LTE 41.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.**

3. DESCRIPTION OF TESTS

3.1 EIRP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: EIRP(Equivalent Isotropic Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-D-2010 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using RMS detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_{d(dBm)} = P_{g(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

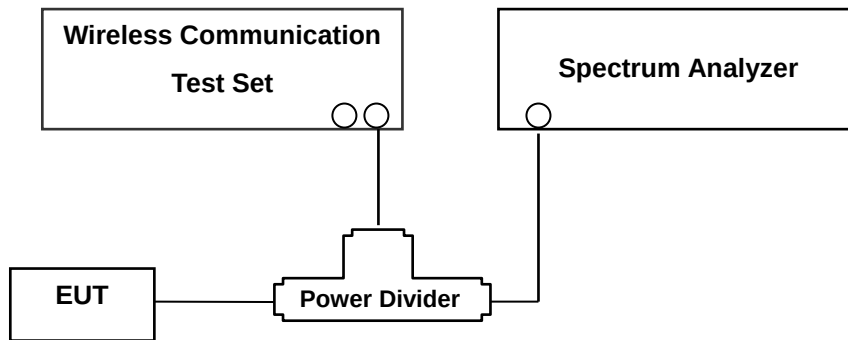
The maximum EIRP is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

Radiated spurious emissions

1. Frequency Range : 9 kHz ~ 10th Harmonics of highest channel fundamental frequency.
2. Measured distance : 30 MHz ~ 11 GHz at 3 m
11 GHz ~ 27 GHz at 1m
3. The EUT was setup to maximum output power.
4. The high, low and a middle channel were tested for out of band measurements.

3.2 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

OBW is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 4.2.

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels(low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

3.3 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

Spurious and harmonic emissions at antenna terminal is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 6.0.

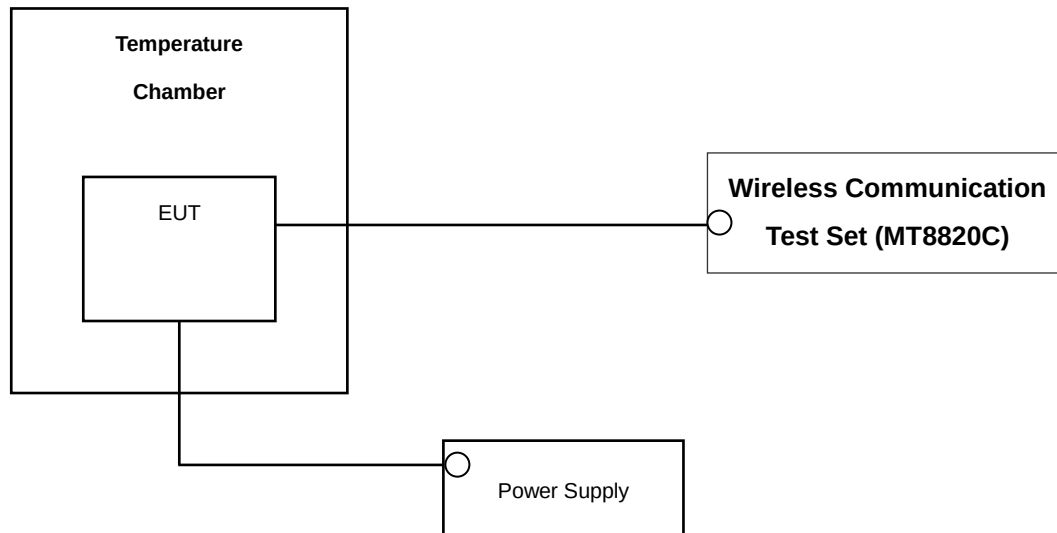
The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

The EUT was setup to maximum output power. The 1 MHz RBW was used to scan from 30 MHz to 26.5 GHz. And limit is -25 dBm. The high, low and a middle channel were tested for out of band measurements.

- Channel Edge Requirement : In the 1MHz bands immediately outside and adjacent to the channel, a resolution bandwidth of at least 2 % of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit is -10 dBm on all frequencies between the channel edge and 5 MHz from the channel edge, -13 dBm on all frequencies between 5 MHz and X MHz from the channel edge, -25 dBm on all frequencies more than X MHz from channel edge, where X is the greater of 6 MHz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than -13 dBm on all frequencies between 2490.5 MHz and 2496 MHz and -25 dBm at below 2490.5 MHz.

3.4 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

Frequency stability is tested in accordance with ANSI/TIA-603-D-2010 section 2.2.2.

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 100 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

NOTE: The EUT is tested down to the battery endpoint.

4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Date	Calibration Interval	Calibration Due
REOHDE & SCHWARZ	SCU 18 / AMPLIFIER	10094	04/24/2017	Annual	04/24/2018
Wainwright	WHK1.2/15G-10EF/H.P.F	4	04/10/2017	Annual	04/10/2018
Wainwright	WHK3.3/18G-10EF/H.P.F	2	04/10/2017	Annual	04/10/2018
Hewlett Packard	11667B / Power Splitter(DC~26.5 GHz)	11275	05/04/2017	Annual	05/04/2018
Agilent	E3632A/DC Power Supply	KR75303243	07/12/2016	Annual	07/12/2017
Schwarzbeck	UHAP/ Dipole Antenna	557	03/31/2017	Biennial	03/31/2019
Schwarzbeck	UHAP/ Dipole Antenna	558	03/31/2017	Biennial	03/31/2019
ESPEC	SU-642 / Chamber	0093008124	03/31/2017	Annual	03/31/2018
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	147	09/09/2016	Biennial	09/09/2018
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	1298	10/14/2016	Biennial	10/14/2018
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	04/25/2017	Biennial	04/25/2019
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170124	04/25/2017	Biennial	04/25/2019
Agilent	N9020A/Signal Analyzer(10Hz~26.5GHz)	MY52090906	06/01/2017	Annual	06/01/2018
Hewlett Packard	8493C/ATTENUATOR(20dB)	17280	06/22/2017	Annual	06/22/2018
REOHDE & SCHWARZ	FSV40-N/Spectrum Analyzer	101068-SZ	09/23/2016	Annual	09/23/2017
Agilent	8960 (E5515C)/ Base Station	MY48360800	10/19/2016	Annual	10/19/2017
Schwarzbeck	FMZB1513/ Loop Antenna(9kHz~30MHz)	1513-175	04/06/2017	Biennial	04/06/2019
Schwarzbeck	VULB9160/ Bilog Antenna	3150	09/30/2016	Biennial	09/30/2018
Schwarzbeck	VULB9160/ Bilog Antenna	3368	10/14/2016	Biennial	10/14/2018
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6200863156	02/15/2017	Annual	02/15/2018
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6201026545	02/13/2017	Annual	02/13/2018
REOHDE & SCHWARZ	SMB100A/ SIGNAL GENERATOR (100kHz~40GHz)	177633	07/18/2016	Annual	07/18/2017

5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ($\pm$ dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	6.07

6. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049	Occupied Bandwidth	N/A	CONDUCTED	PASS
2.1051, 27.53(m)(4)	Band Edge / Conducted Spurious Emissions.	< 40 + 10log10 (P[Watts]) at Channel edges < 43 + 10log10 (P[Watts]) between 5 and X MHz from Channel edges < 55 + 10log10 (P[Watts]) beyond X MHz beyond from Channel edges		PASS
2.1046	* Conducted Output Power	N/A		PASS
2.1055, 27.54	Frequency stability	Emission must remain in band		PASS
27.50(h)(2)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP	RADIATED	PASS
2.1053, 27.53(m)(4)	Undesirable Emissions	< 40 + 10log10 (P[Watts]) at Channel edges < 43 + 10log10 (P[Watts]) between 5 and X MHz from Channel edges < 55 + 10log10 (P[Watts]) beyond X MHz beyond from Channel edges		PASS

*: See SAR Report

7. SAMPLE CALCULATION

A. EIRP Sample Calculation

Mode	Ch./ Freq.		Measured	Substitute	Ant. Gain	C.L	Pol.	Limit	EIRP	
	channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	(dBi)			W	W	dBm
LTE Band 41	40620	2593.0	-25.64	7.97	11.04	1.74	H	< 2.00	0.053	17.27

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a wooden tripod is 2.5 meter above test site ground level.
- 2) During the test , the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of Equivalent Isotropic Radiated Power (**EIRP**).

B. Emission Designator

QPSK Modulation

5 MHz Bandwidth

Emission Designator = 4M50G7D

LTE BW = 4.50 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

10 MHz Bandwidth

Emission Designator = 8M95G7D

LTE BW = 8.95 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

15 MHz Bandwidth

Emission Designator = 13M5G7D

LTE BW = 13.47 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

20 MHz Bandwidth

Emission Designator = 18M0G7D

LTE BW = 18.03 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

16QAM Modulation

5 MHz Bandwidth

Emission Designator = 4M51W7D

LTE BW = 4.51 MHz

W = main carrier modulated in a combination of
two or more of the following modes;
amplitude, angle, pulse

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

10 MHz Bandwidth

Emission Designator = 8M94W7D

LTE BW = 8.94 MHz

W = main carrier modulated in a combination of
two or more of the following modes;
amplitude, angle, pulse

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

15 MHz Bandwidth

Emission Designator = 13M5W7D

LTE BW = 13.47MHz

W = main carrier modulated in a combination of
two or more of the following modes;
amplitude, angle, pulse

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

20 MHz Bandwidth

Emission Designator = 18M0W7D

LTE BW = 18.03 MHz

W = main carrier modulated in a combination of
two or more of the following modes;
amplitude, angle, pulse

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA

8.1 EQUIVALENT ISOTROPIC RADIATED POWER (Band 41)

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
2498.5	5 MHz	QPSK	-24.05	11.64	10.95	2.35	V	< 2.00	0.106	20.24
		16-QAM	-25.29	10.40	10.95	2.35	V		0.079	19.00
2593.0		QPSK	-25.11	10.80	11.03	2.40	V		0.088	19.43
		16-QAM	-26.64	9.27	11.03	2.40	V		0.062	17.90
2687.5		QPSK	-28.17	8.15	11.10	2.46	V		0.048	16.79
		16-QAM	-29.84	6.48	11.10	2.46	V		0.033	15.12

Note: All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
2501.0	10 MHz	QPSK	-24.04	11.65	10.95	2.35	V	< 2.00	0.106	20.25
		16-QAM	-25.24	10.45	10.95	2.35	V		0.080	19.05
2593.0		QPSK	-24.79	11.12	11.03	2.40	V		0.094	19.75
		16-QAM	-26.42	9.49	11.03	2.40	V		0.065	18.12
2685.0		QPSK	-27.80	8.48	11.09	2.46	V		0.051	17.11
		16-QAM	-29.18	7.10	11.09	2.46	V		0.037	15.73

Note: All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
2503.5	15 MHz	QPSK	-23.83	11.85	10.95	2.35	V	< 2.00	0.111	20.45
		16-QAM	-25.26	10.42	10.95	2.35	V		0.080	19.02
2593.0		QPSK	-24.88	11.03	11.03	2.40	V		0.092	19.66
		16-QAM	-26.49	9.42	11.03	2.40	V		0.064	18.05
2682.5		QPSK	-28.05	8.17	11.09	2.46	V		0.048	16.80
		16-QAM	-29.50	6.72	11.09	2.46	V		0.034	15.35

Note: All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
2506.0	20 MHz	QPSK	-24.15	11.53	10.95	2.35	V	< 2.00	0.103	20.13
		16-QAM	-25.40	10.28	10.95	2.35	V		0.077	18.88
2593.0		QPSK	-25.37	10.54	11.03	2.40	V		0.083	19.17
		16-QAM	-26.92	8.99	11.03	2.40	V		0.058	17.62
2680.0		QPSK	-27.33	8.85	11.09	2.46	V		0.056	17.48
		16-QAM	-28.85	7.33	11.09	2.46	V		0.039	15.96

Note: All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method

according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:

The EUT was placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. Turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For LTE signals, RBW = 1-5% of the OBW, not to exceed 1MHz, VBW $\geq 3 \times$ RBW, Detector = RMS. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is z plane in LTE mode. Also worst case of detecting Antenna is vertical polarization in LTE mode.

8.2 RADIATED SPURIOUS EMISSIONS

8.2.1 RADIATED SPURIOUS EMISSIONS (5 MHz Band 41 LTE)

- OPERATING FREQUENCY : 2498.50 MHz
- MEASURED OUTPUT POWER: 20.24 dBm = 0.106 W
- MODULATION SIGNAL: 5 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $55 + 10 \log_{10}(W) =$ 45.24 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	EIRP (dBm)	dBc	Detector
39675 (2498.5)	4,997.00	-41.35	12.57	-55.88	3.39	H	-46.70	66.94	Peak
	7,495.50	-47.98	11.71	-55.72	4.17	H	-48.18	68.42	Peak
	9,994.00	-40.58	11.03	-44.00	5.00	H	-37.97	58.21	Peak
	12,492.50	-37.63	14.03	-42.93	5.63	V	-34.53	54.77	Peak
	14,991.00	-35.33	13.25	-38.13	6.32	V	-31.20	51.44	Peak
40620 (2593.0)	5,186.00	-39.51	12.84	-53.72	3.47	V	-44.35	64.59	Peak
	7,779.00	-43.94	11.50	-51.72	4.27	V	-44.49	64.73	Peak
	10,372.00	-37.30	10.81	-41.54	5.06	V	-35.79	56.03	Peak
	12,965.00	-38.87	13.50	-42.45	5.74	V	-34.69	54.93	Peak
	15,558.00	-35.13	16.13	-40.20	6.39	V	-30.46	50.70	Peak
41565 (2687.5)	5,375.00	-33.63	13.11	-47.17	3.53	H	-37.59	57.83	Peak
	8,062.50	-42.57	11.44	-48.63	4.42	H	-41.61	61.85	Peak
	10,750.00	-34.98	10.70	-38.81	5.09	H	-33.20	53.44	Peak
	13,437.50	-35.47	12.70	-36.94	5.82	H	-30.06	50.30	RMS
	16,125.00	-36.87	16.94	-42.36	6.49	H	-31.91	52.15	Peak

- NOTES:**
1. Radiated Spurious Emission Measurements at 1 meter and 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 9 kHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

8.2.2 RADIATED SPURIOUS EMISSIONS (10 MHz Band 41 LTE)

- OPERATING FREQUENCY : 2501.00 MHz
- MEASURED OUTPUT POWER: 20.25 dBm = 0.106 W
- MODULATION SIGNAL: 10 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $55 + 10 \log_{10}(W) =$ 45.25 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	EIRP (dBm)	dBc	Detector
39700 (2501.0)	5,002.00	-43.49	12.57	-57.76	3.40	H	-48.59	68.84	Peak
	7,503.00	-39.18	11.71	-47.43	4.19	H	-39.91	60.16	Peak
	10,004.00	-37.87	11.02	-41.33	5.04	H	-35.35	55.60	Peak
	12,505.00	-38.72	14.05	-44.21	5.68	V	-35.84	56.09	Peak
	15,006.00	-35.18	13.31	-37.82	6.31	V	-30.82	51.07	Peak
40620 (2593.0)	5,186.00	-40.22	12.84	-54.43	3.47	H	-45.06	65.31	Peak
	7,779.00	-41.37	11.50	-49.15	4.27	V	-41.92	62.17	Peak
	10,372.00	-35.61	10.81	-39.85	5.06	V	-34.10	54.35	Peak
	12,965.00	-41.69	13.50	-45.27	5.74	V	-37.51	57.76	Peak
	15,558.00	-35.18	16.13	-40.25	6.39	H	-30.51	50.76	Peak
41540 (2685.0)	5,370.00	-35.59	13.10	-49.11	3.53	H	-39.54	59.79	Peak
	8,055.00	-35.23	11.43	-41.21	4.42	H	-34.20	54.45	Peak
	10,740.00	-33.18	10.70	-36.71	5.11	H	-31.12	51.37	Peak
	13,425.00	-37.42	12.71	-39.17	5.81	H	-32.27	52.52	RMS
	16,110.00	-37.39	16.97	-43.35	6.49	H	-32.87	53.12	Peak

- NOTES:**
1. Radiated Spurious Emission Measurements at 1 meter and 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 9 kHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

8.2.3 RADIATED SPURIOUS EMISSIONS (15 MHz Band 41 LTE)

- OPERATING FREQUENCY : 2503.50 MHz
- MEASURED OUTPUT POWER: 20.45 dBm = 0.111 W
- MODULATION SIGNAL: 15 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $55 + 10 \log_{10}(W) =$ 45.45 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	EIRP (dBm)	dBc	Detector
39725 (2503.5)	5,007.00	-43.16	12.58	-57.05	3.40	H	-47.87	68.32	Peak
	7,510.50	-39.22	11.70	-47.69	4.15	H	-40.14	60.59	Peak
	10,014.00	-36.55	11.01	-40.33	5.02	H	-34.34	54.79	Peak
	12,517.50	-37.84	14.03	-43.39	5.71	V	-35.07	55.52	Peak
	15,021.00	-35.22	13.39	-37.46	6.28	V	-30.35	50.80	Peak
40620 (2593.0)	5,186.00	-40.82	12.84	-55.03	3.47	H	-45.66	66.11	Peak
	7,779.00	-40.96	11.50	-48.74	4.27	V	-41.51	61.96	Peak
	10,372.00	-34.99	10.81	-39.23	5.06	V	-33.48	53.93	Peak
	12,965.00	-40.13	13.50	-43.71	5.74	V	-35.95	56.40	Peak
	15,558.00	-36.99	16.13	-42.06	6.39	V	-32.32	52.77	Peak
41515 (2682.5)	5,365.00	-36.55	13.10	-49.89	3.54	H	-40.33	60.78	Peak
	8,047.50	-36.07	11.40	-42.20	4.40	H	-35.20	55.65	Peak
	10,730.00	-34.26	10.71	-37.72	5.12	H	-32.13	52.58	Peak
	13,412.50	-39.53	12.74	-41.48	5.84	H	-34.58	55.03	RMS
	16,095.00	-37.40	17.02	-42.21	6.52	V	-31.71	52.16	Peak

- NOTES:**
1. Radiated Spurious Emission Measurements at 1 meter and 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 9 kHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

8.2.4 RADIATED SPURIOUS EMISSIONS (20 MHz Band 41 LTE)

- OPERATING FREQUENCY : 2506.00 MHz
- MEASURED OUTPUT POWER: 20.13 dBm = 0.103 W
- MODULATION SIGNAL: 20 MHz QPSK
- DISTANCE: 3 meters
- LIMIT: $55 + 10 \log_{10}(W) =$ 45.13 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	EIRP (dBm)	dBc	Detector
39750 (2506.0)	5,012.00	-42.88	12.58	-56.33	3.40	H	-47.15	67.28	Peak
	7,518.00	-39.34	11.70	-47.80	3.98	H	-40.08	60.21	Peak
	10,024.00	-36.87	11.01	-40.59	5.08	H	-34.66	54.79	Peak
	12,530.00	-38.85	14.01	-44.75	5.71	V	-36.45	56.58	Peak
	15,036.00	-35.97	13.44	-38.24	6.24	V	-31.04	51.17	Peak
40620 (2593.0)	5,186.00	-42.26	12.84	-56.47	3.47	H	-47.10	67.23	Peak
	7,779.00	-41.37	11.50	-49.15	4.27	V	-41.92	62.05	Peak
	10,372.00	-37.77	10.81	-42.01	5.06	H	-36.26	56.39	Peak
	12,965.00	-39.99	13.50	-43.57	5.74	V	-35.81	55.94	Peak
	15,558.00	-36.76	16.13	-41.83	6.39	V	-32.09	52.22	Peak
41490 (2680.0)	5,360.00	-36.35	13.09	-49.51	3.54	H	-39.96	60.09	Peak
	8,040.00	-39.15	11.40	-45.49	4.40	H	-38.49	58.62	Peak
	10,720.00	-36.03	10.71	-38.95	5.13	V	-33.37	53.50	Peak
	13,400.00	-41.05	12.75	-42.94	5.90	H	-36.09	56.22	RMS
	16,080.00	-39.70	17.05	-43.97	6.53	V	-33.45	53.58	Peak

- NOTES:**
1. Radiated Spurious Emission Measurements at 1 meter and 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
 2. We are performed all frequency to 10th harmonics from 9 kHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
 3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
 4. All of RB size has been tested for emissions and EIRP, with the 1RB configuration observed as the worst case
 5. We are performed 16QAM and QPSK modulations. The worst case data are reported in the table above.

8.3 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
41	5 MHz	2593.0	QPSK	25	0	4.4984
			16-QAM	25	0	4.4953
	10 MHz		QPSK	50	0	8.9322
			16-QAM	50	0	8.9479
	15 MHz		QPSK	75	0	13.407
			16-QAM	75	0	13.429
	20 MHz		QPSK	100	0	17.942
			16-QAM	100	0	17.845

- Plots of the EUT's Occupied Bandwidth are shown Page 29 ~32.

8.4 CONDUCTED SPURIOUS EMISSIONS

■FACTORS FOR FREQUENCY

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20	30.131

NOTES:

Factor(dB) = Cable Loss + Attenuator +Power Splitter

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
41	1.4	2498.5	6.1994	28.591	-57.642	-29.051	-25.00
		2593.0	3.6646	27.976	-57.370	-29.394	
		2687.5	6.5908	28.591	-58.242	-29.651	
	3	2501.0	7.2024	28.591	-57.751	-29.160	
		2593.0	6.8679	28.591	-58.125	-29.534	
		2685.0	5.9442	28.591	-57.383	-28.792	
	5	2503.5	6.2513	28.591	-57.146	-28.555	
		2593.0	4.9756	27.976	-57.903	-29.927	
		2682.5	3.0484	27.976	-58.041	-30.065	
	10	2506.0	3.7319	27.976	-57.658	-29.682	
		2593.0	7.2144	28.591	-57.920	-29.329	
		2680.0	3.1696	27.976	-57.868	-29.892	

NOTES:

1. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)

- Plots of the EUT's Conducted Spurious Emissions are shown Page 39 ~ 50.

8.4.1 BAND EDGE

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	Above (C.E + 5 MHz)
					Lower	Upper	Lower	Upper	Lower	Upper
5 MHz	2498.5	QPSK	25	0	-24.47	-23.98	-22.44	-19.64	-30.75	-29.05
Limit					-13.0	-10.0	-13.0	-10.0	-25.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
					Lower	Upper	Lower	Upper	Lower	Upper	Upper
10 MHz	2501.0	QPSK	50	0	-28.22	-26.22	-23.91	-21.56	-28.84	-25.73	-33.09
15 MHz	2503.5	QPSK	75	0	-30.11	-28.33	-28.71	-24.53	-31.85	-26.59	-35.13
20 MHz	2506.0	QPSK	100	0	-31.95	-29.54	-30.94	-26.81	-33.25	-27.78	-35.42
Limit					-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	C.E ~ (C.E ± 1MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
5 MHz	2593.0	QPSK	25	0	-23.95	-24.46	-21.90	-22.07
	2687.5	QPSK	25	0	-24.01	-24.39	-19.77	-19.37
10 MHz	2593.0	QPSK	50	0	-27.91	-28.08	-24.62	-24.13
	2685.0	QPSK	50	0	-26.46	-26.61	-22.57	-22.13
15 MHz	2593.0	QPSK	75	0	-28.83	-28.83	-24.38	-24.70
	2682.5	QPSK	75	0	-26.73	-26.13	-23.05	-23.23
20 MHz	2593.0	QPSK	100	0	-29.65	-28.80	-25.98	-25.73
	2680.0	QPSK	100	0	-27.00	-27.10	-23.10	-22.88
Limit					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
5 MHz	2593.0	QPSK	25	0	-31.34	-30.51	-34.92	-34.44
	2687.5	QPSK	25	0	-28.65	-28.45	-31.90	-31.35
10 MHz	2593.0	QPSK	50	0	-28.40	-27.68	-35.22	-33.65
	2685.0	QPSK	50	0	-25.71	-25.60	-30.47	-29.90
15 MHz	2593.0	QPSK	75	0	-27.99	-26.94	-36.29	-34.81
	2682.5	QPSK	75	0	-26.76	-25.46	-33.10	-31.51
20 MHz	2593.0	QPSK	100	0	-29.19	-27.34	-37.14	-34.74
	2680.0	QPSK	100	0	-26.93	-25.44	-34.21	-33.73
Limit					-13.0		-25.0	

Note:

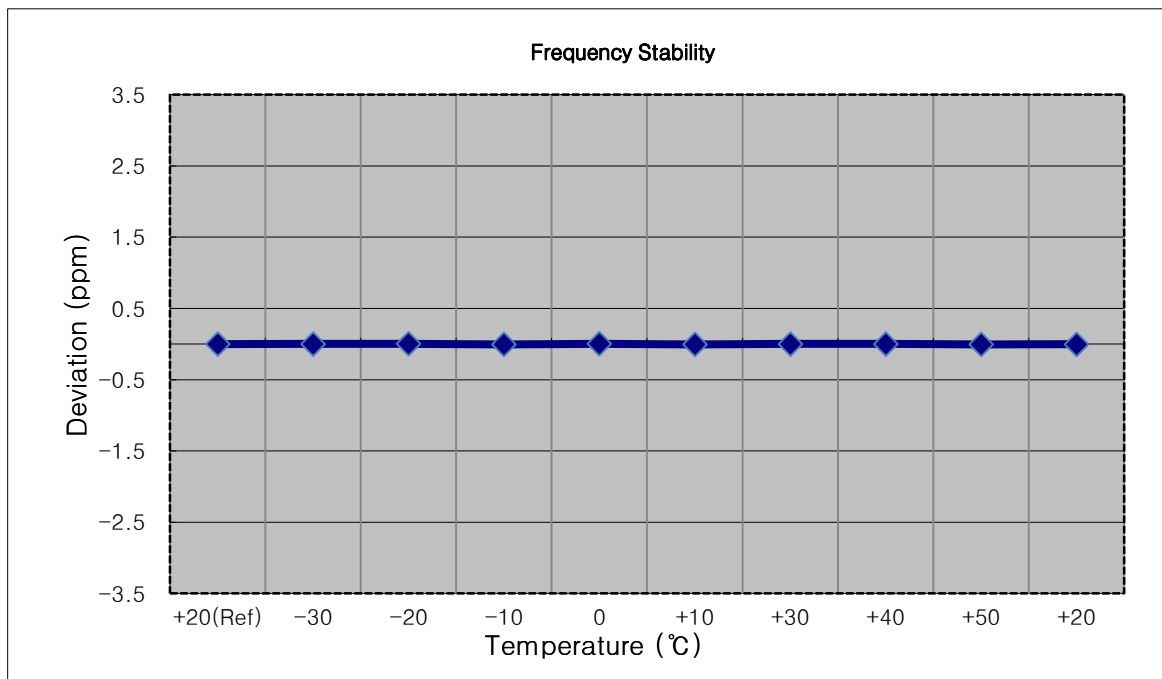
1. C.E = Channel Edge
2. X = X is the greater of 6MHz or the actual emission bandwidth.
3. X = 6MHz(5MHz Bandwidth), 10MHz(10MHz Bandwidth), 15MHz(15MHz Bandwidth), 20MHz(20MHz Bandwidth)
4. Plots of the EUT's Band Edge are shown Page 33 ~ 38

8.5 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

8.5.1 FREQUENCY STABILITY (5 MHz Band 41 LTE)

- OPERATING FREQUENCY: 2593.000,000 Hz
- CHANNEL: 40620 (5 MHz)
- REFERENCE VOLTAGE: 3.85 VDC
- DEVIATION LIMIT: Emission must remain in band

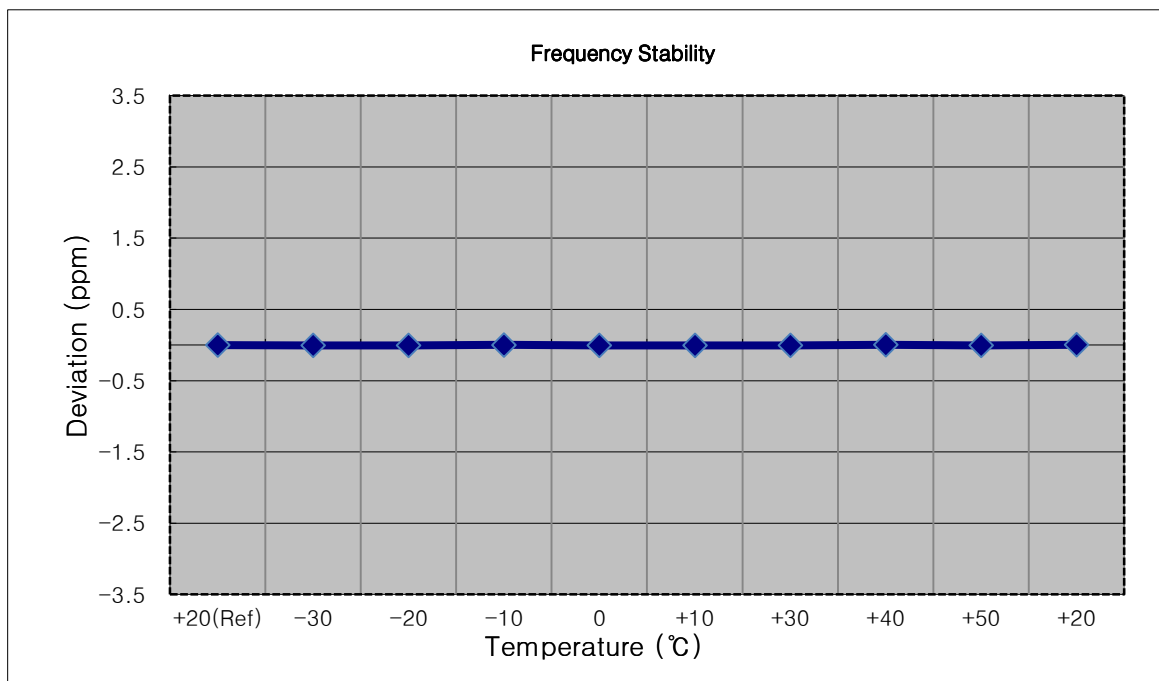
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.85	+20(Ref)	2593 000 009	0.0	0.000 000	0.000
100%		-30	2593 000 018	8.9	0.000 000	0.003
100%		-20	2593 000 019	10.0	0.000 000	0.004
100%		-10	2592 999 997	-11.6	0.000 000	-0.004
100%		0	2593 000 019	10.0	0.000 000	0.004
100%		+10	2592 999 997	-12.3	0.000 000	-0.005
100%		+30	2593 000 017	7.9	0.000 000	0.003
100%		+40	2593 000 013	3.9	0.000 000	0.002
100%		+50	2593 000 001	-8.3	0.000 000	-0.003
Batt. Endpoint	3.40	+20	2593 000 005	-4.4	0.000 000	-0.002



8.5.2 FREQUENCY STABILITY (10 MHz Band 41 LTE)

- OPERATING FREQUENCY: 2593.000,000 Hz
- CHANNEL: 40620 (10 MHz)
- REFERENCE VOLTAGE: 3.85 VDC
- DEVIATION LIMIT: Emission must remain in band

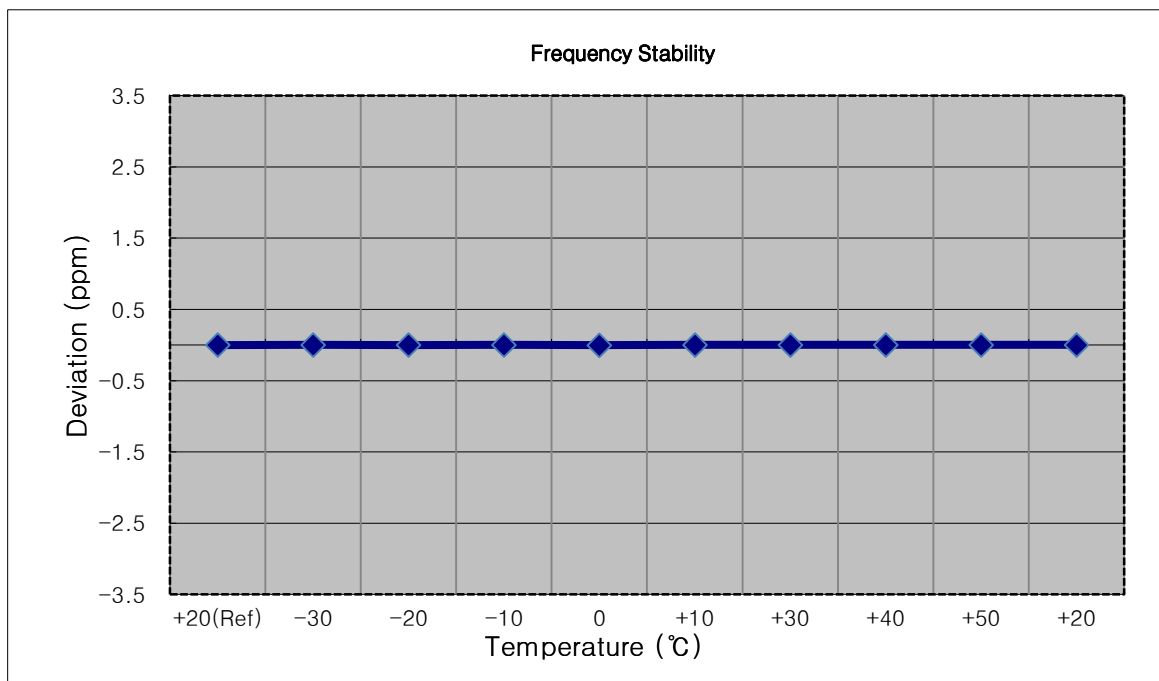
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.85	+20(Ref)	2593 000 012	0.0	0.000 000	0.000
100%		-30	2593 000 000	-11.7	0.000 000	-0.005
100%		-20	2593 000 003	-8.2	0.000 000	-0.003
100%		-10	2593 000 020	8.9	0.000 000	0.003
100%		0	2593 000 000	-11.5	0.000 000	-0.004
100%		+10	2592 999 999	-12.1	0.000 000	-0.005
100%		+30	2593 000 000	-11.3	0.000 000	-0.004
100%		+40	2593 000 022	10.2	0.000 000	0.004
100%		+50	2593 000 001	-10.7	0.000 000	-0.004
Batt. Endpoint	3.40	+20	2593 000 023	11.8	0.000 000	0.005



8.5.3 FREQUENCY STABILITY (15 MHz Band 41 LTE)

- OPERATING FREQUENCY: 2593.000,000 Hz
- CHANNEL: 40620 (15 MHz)
- REFERENCE VOLTAGE: 3.85 VDC
- DEVIATION LIMIT: Emission must remain in band

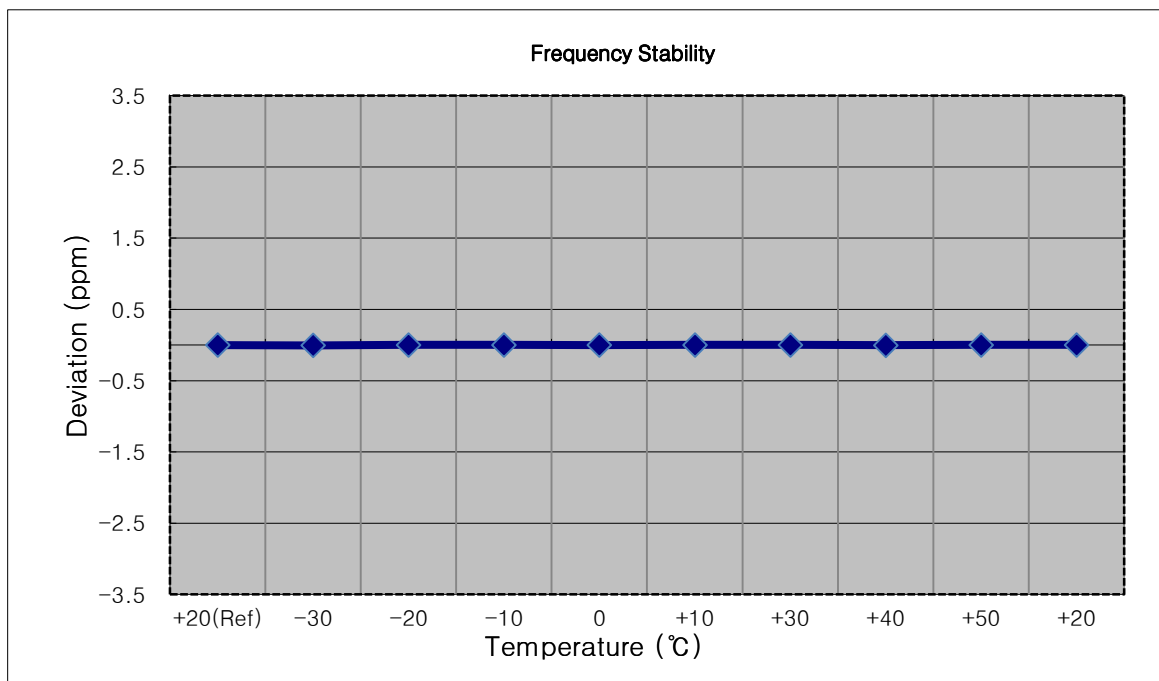
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.85	+20(Ref)	2592 999 989	0.0	0.000 000	0.000
100%		-30	2592 999 997	8.0	0.000 000	0.003
100%		-20	2592 999 992	2.9	0.000 000	0.001
100%		-10	2592 999 997	7.7	0.000 000	0.003
100%		0	2592 999 983	-5.5	0.000 000	-0.002
100%		+10	2592 999 999	9.7	0.000 000	0.004
100%		+30	2592 999 995	5.9	0.000 000	0.002
100%		+40	2592 999 997	7.7	0.000 000	0.003
100%		+50	2592 999 996	7.0	0.000 000	0.003
Batt. Endpoint	3.40	+20	2592 999 997	8.4	0.000 000	0.003



8.5.4 FREQUENCY STABILITY (20 MHz Band 41 LTE)

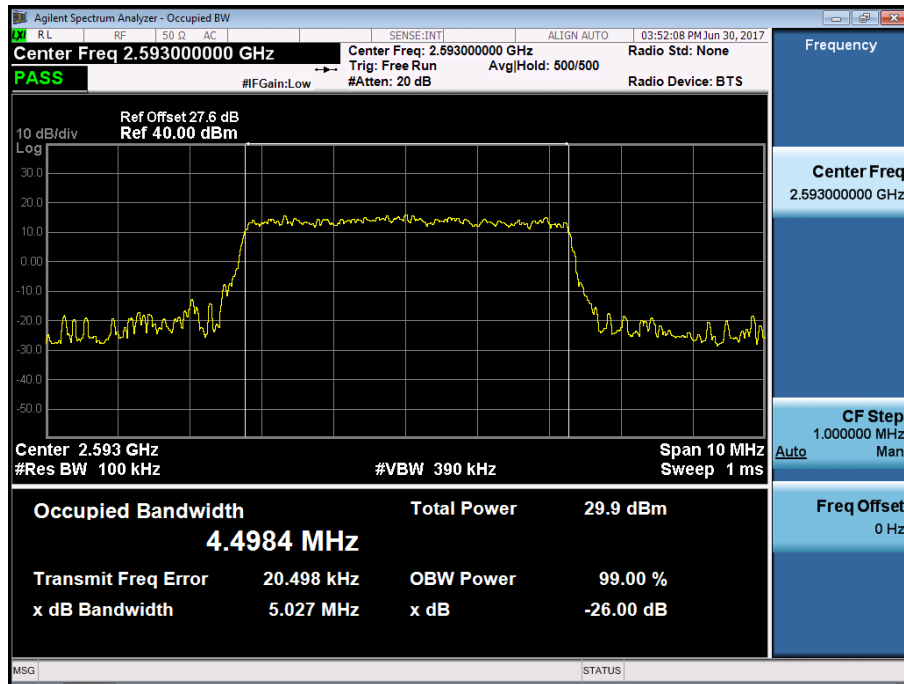
- OPERATING FREQUENCY: 2593.000,000 Hz
- CHANNEL: 40620 (20 MHz)
- REFERENCE VOLTAGE: 3.85 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.85	+20(Ref)	2593 000 006	0.0	0.000 000	0.000
100%		-30	2592 999 996	-10.8	0.000 000	-0.004
100%		-20	2593 000 015	8.4	0.000 000	0.003
100%		-10	2593 000 015	8.5	0.000 000	0.003
100%		0	2593 000 009	3.0	0.000 000	0.001
100%		+10	2593 000 013	6.6	0.000 000	0.003
100%		+30	2593 000 010	3.9	0.000 000	0.002
100%		+40	2592 999 999	-7.5	0.000 000	-0.003
100%		+50	2593 000 015	8.3	0.000 000	0.003
Batt. Endpoint	3.40	+20	2593 000 015	8.6	0.000 000	0.003

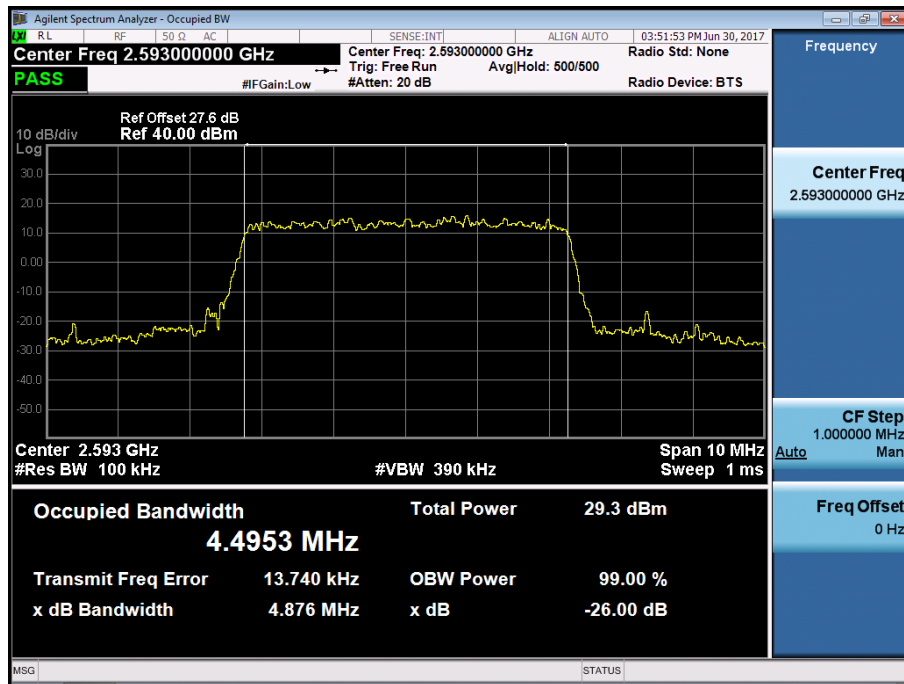


9. TEST PLOTS

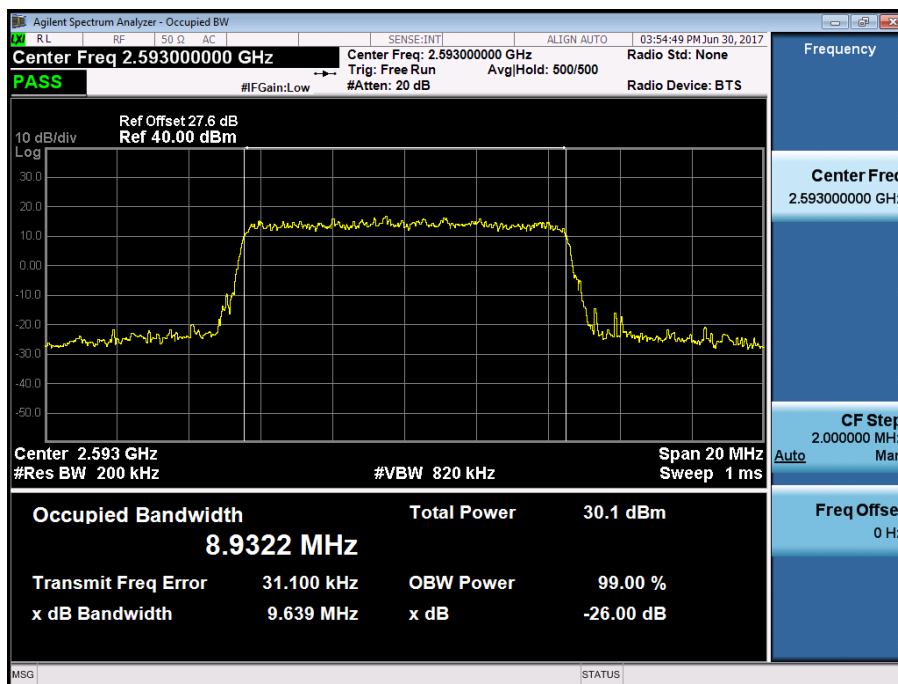
BAND 41. Occupied Bandwidth Plot (5 MHz Ch.40620 QPSK RB 25)



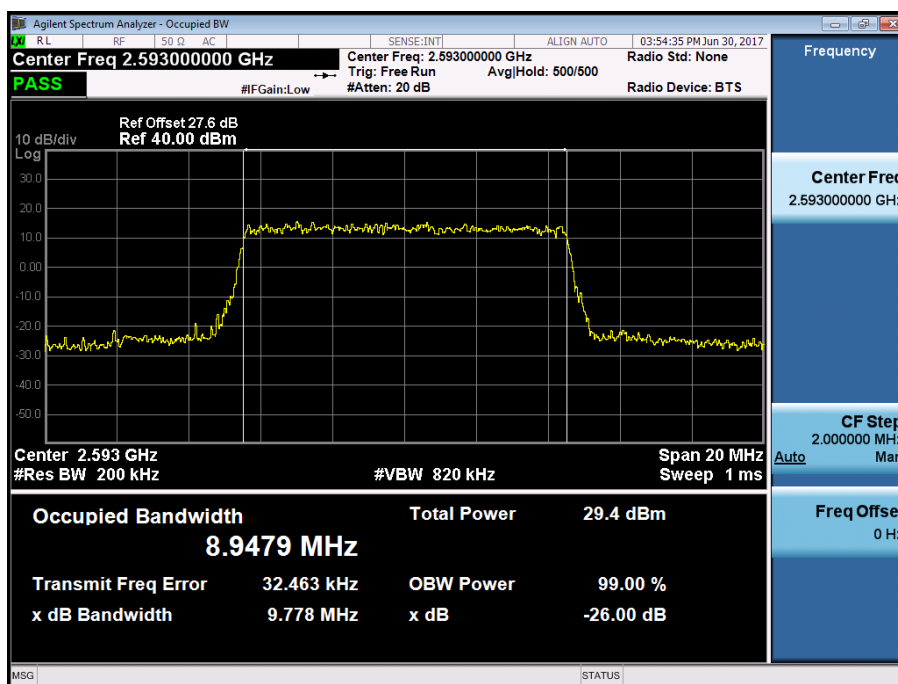
BAND 41. Occupied Bandwidth Plot (5 MHz Ch.40620 16-QAM RB 25)



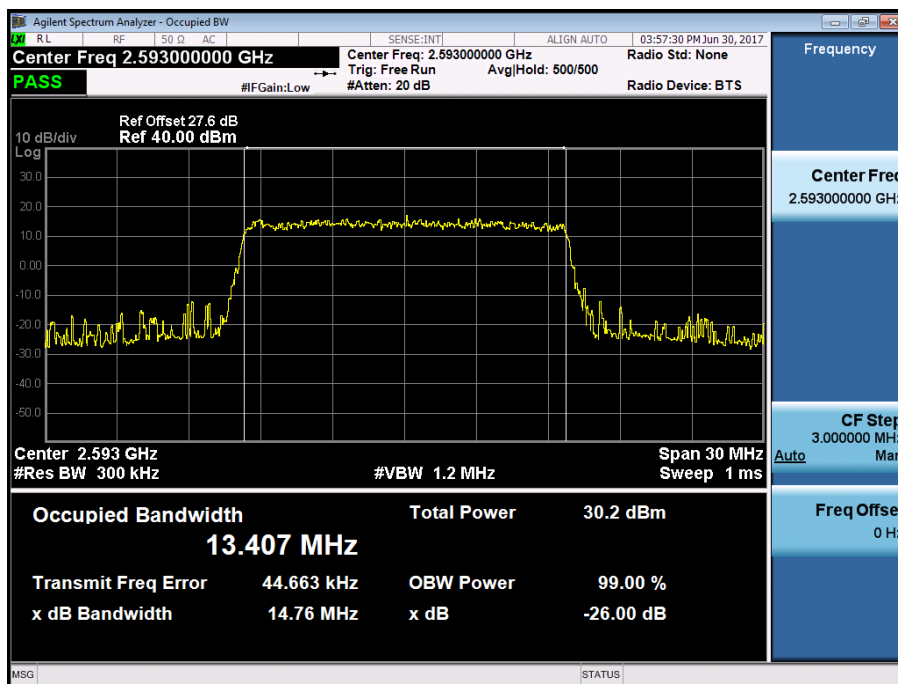
BAND 41. Occupied Bandwidth Plot (10 MHz Ch.40620 QPSK RB 50)



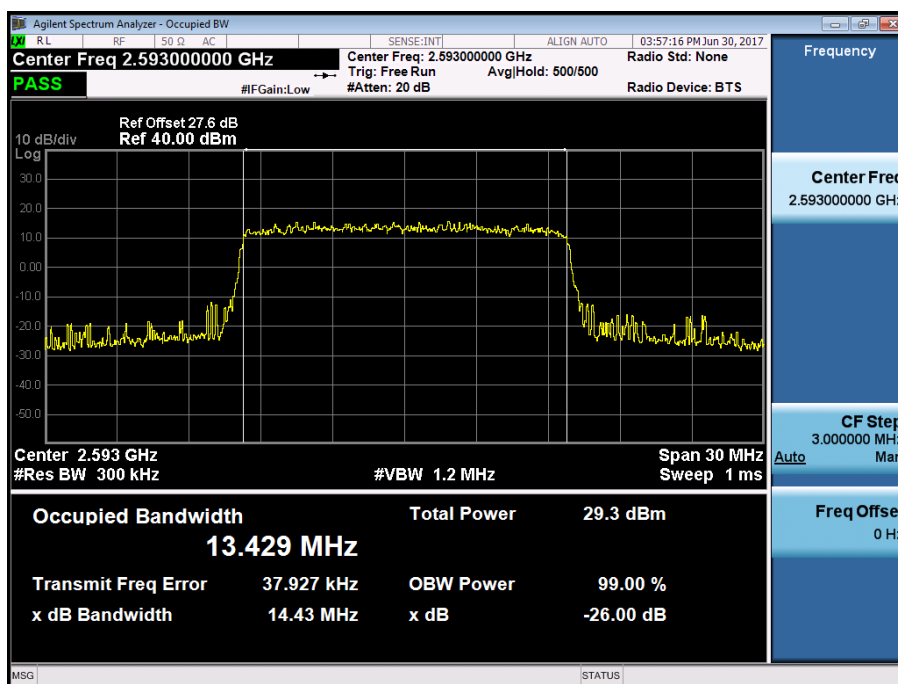
BAND 41. Occupied Bandwidth Plot (10 MHz Ch.40620 16-QAM RB 50)



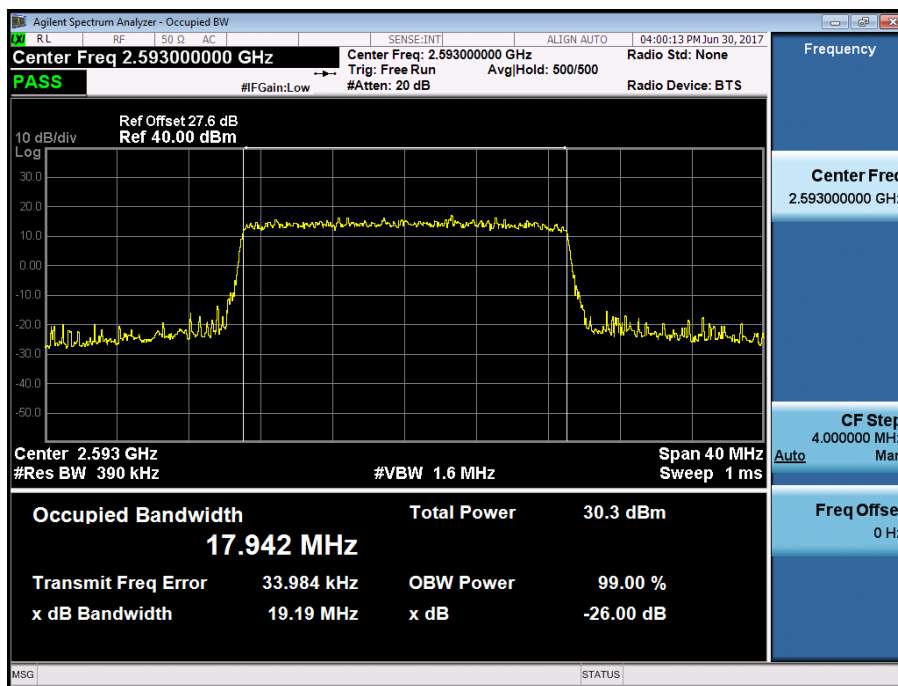
BAND 41. Occupied Bandwidth Plot (15 MHz Ch.40620 QPSK RB 75)



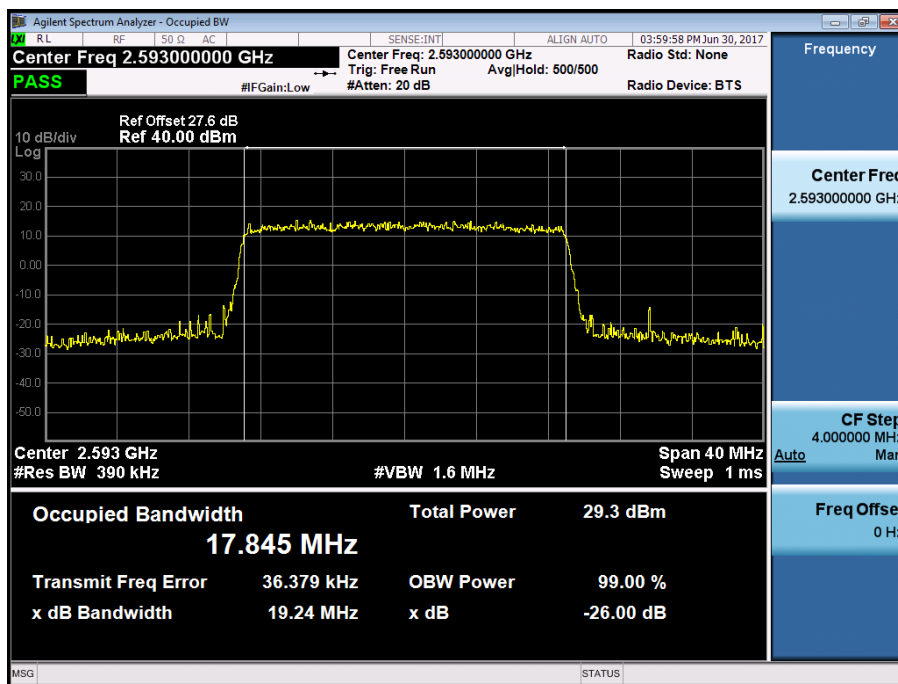
BAND 41. Occupied Bandwidth Plot (15 MHz Ch.40620 16-QAM RB 75)



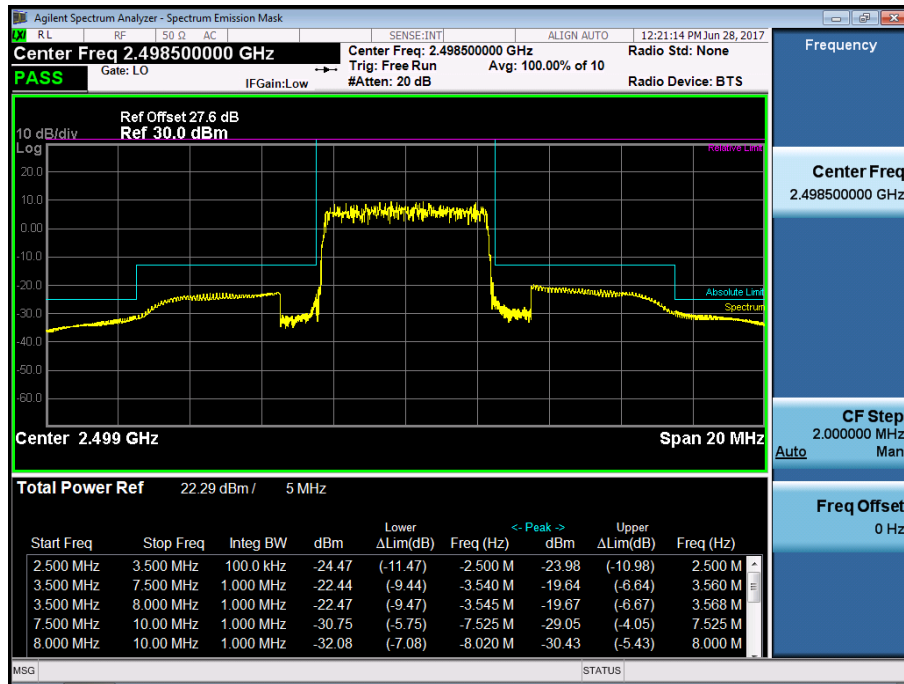
BAND 41. Occupied Bandwidth Plot (20 MHz Ch.40620 QPSK RB 100)



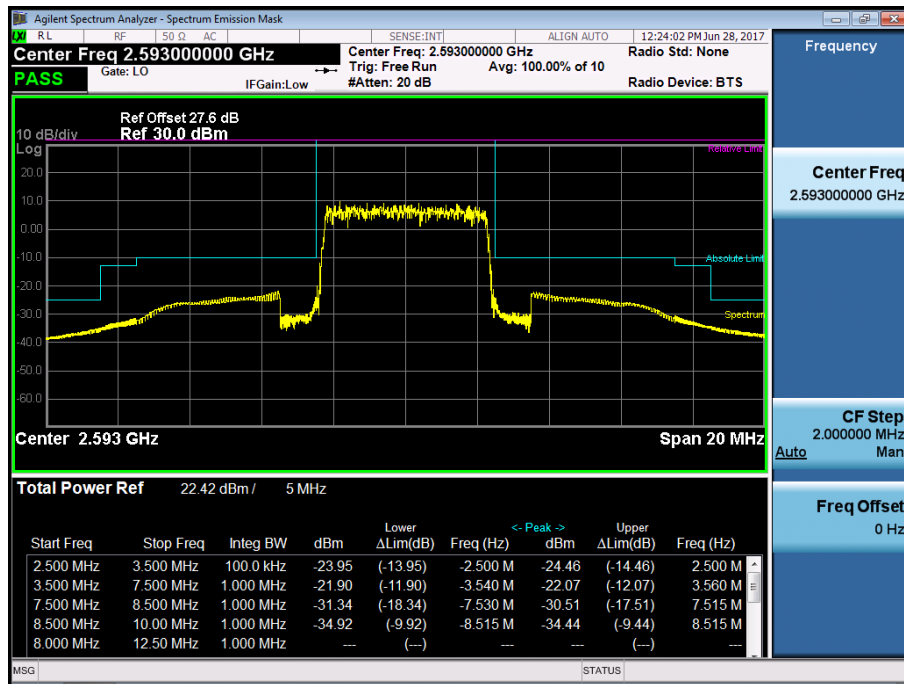
BAND 41. Occupied Bandwidth Plot (20 MHz Ch.40620 16-QAM RB 100)



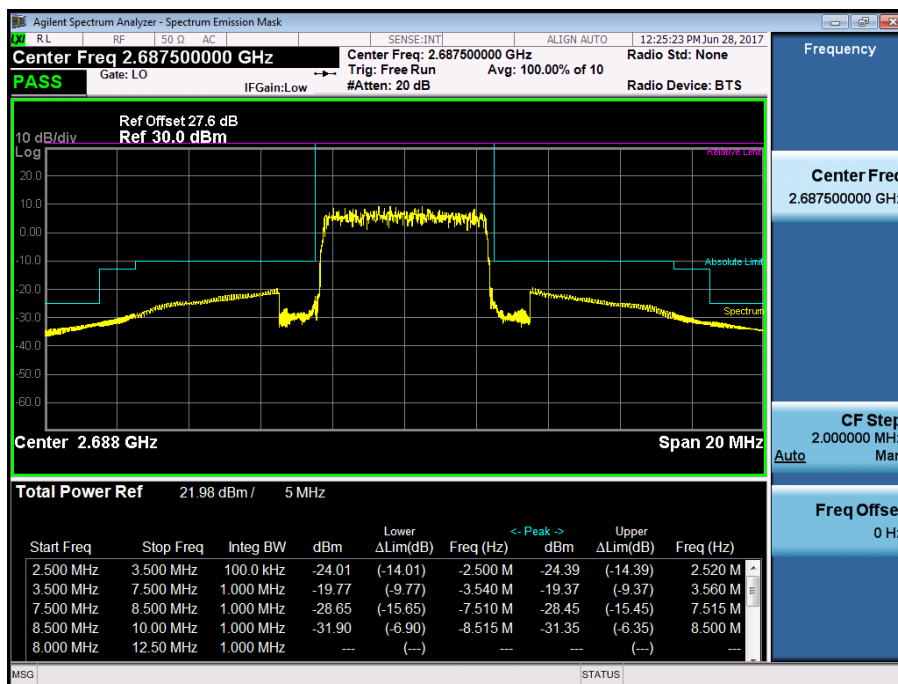
BAND 41. Low Channel Edge Plot (5 MHz Ch.39675 QPSK RB 25)



BAND 41. Mid Channel Edge Plot (5 MHz Ch.40620 QPSK RB 25)



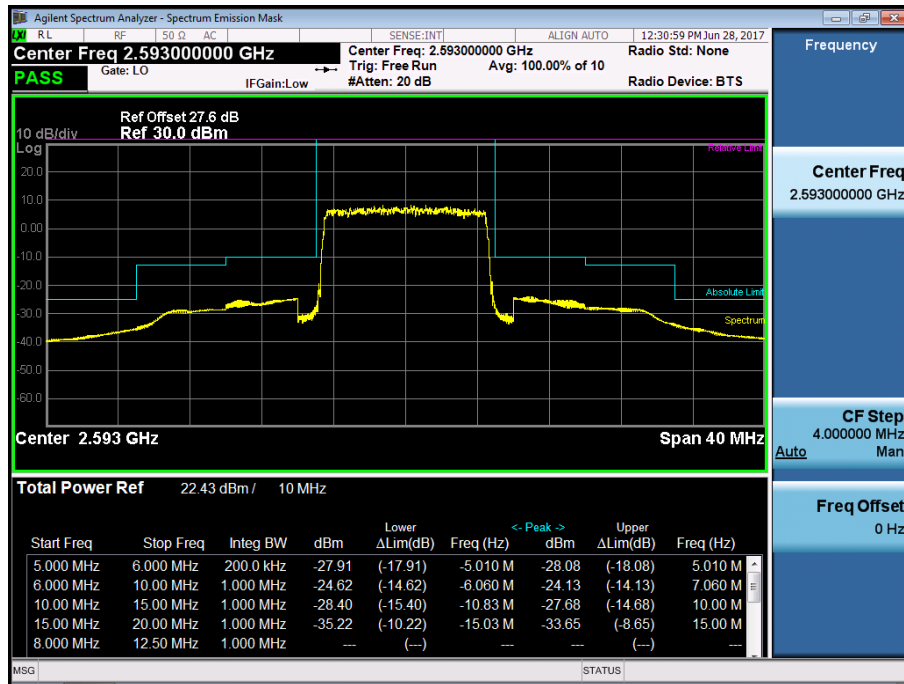
BAND 41. High Channel Edge Plot (5 MHz Ch.41565 QPSK RB 25)



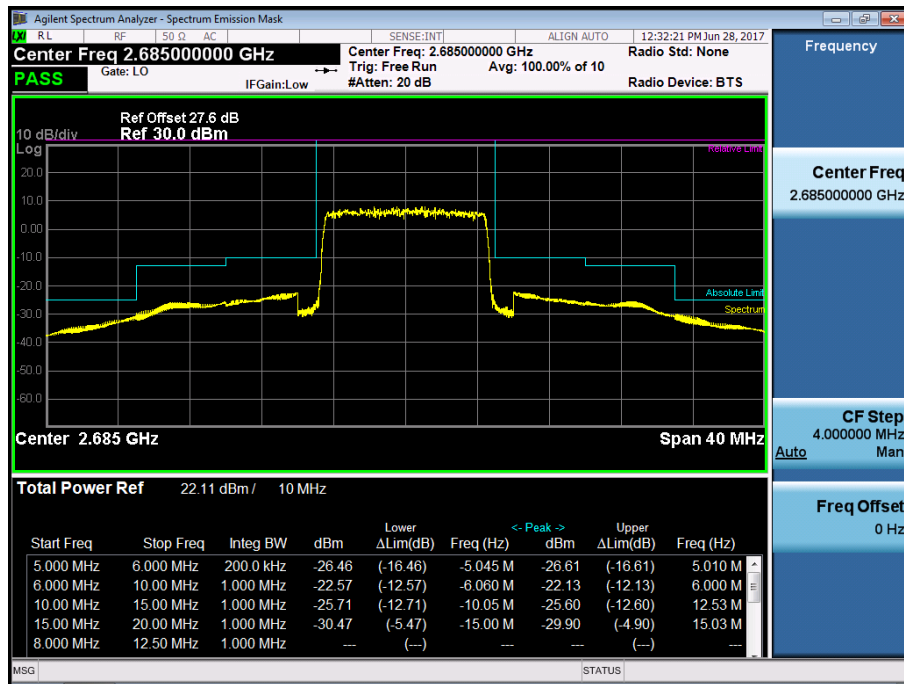
BAND 41. Low Channel Edge Plot (10 MHz Ch.39700 QPSK RB 50)



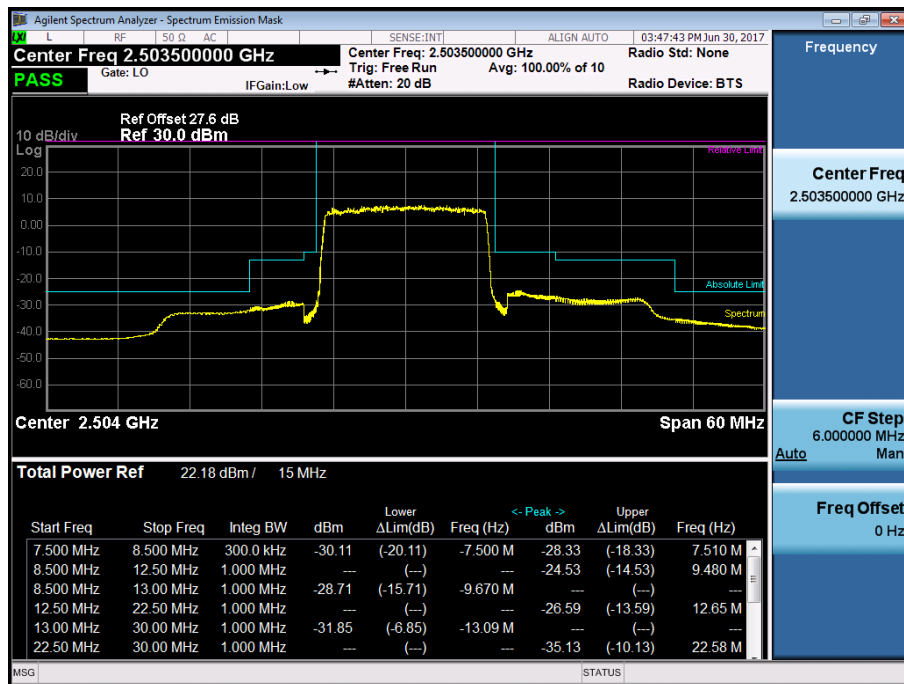
BAND 41. Mid Channel Edge Plot (10 MHz Ch.40620 QPSK RB 50)



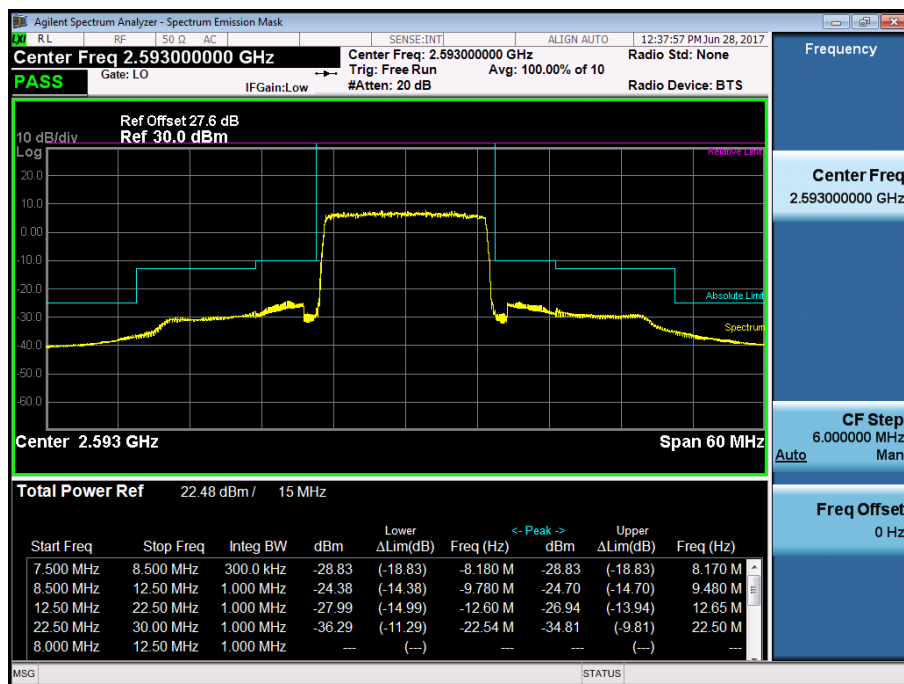
BAND 41. High Channel Edge Plot (10 MHz Ch.41540 QPSK RB 50)



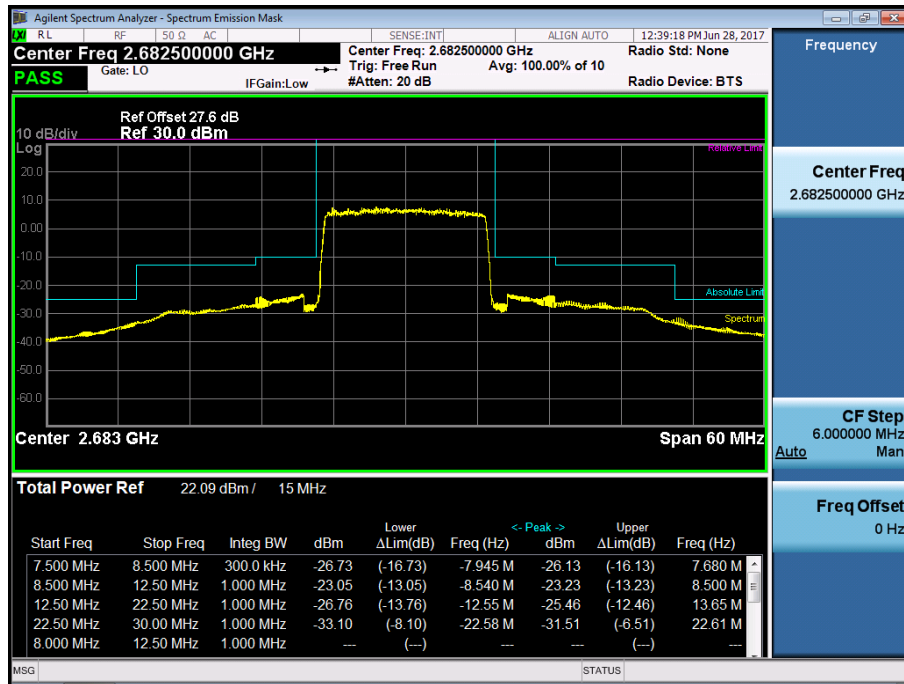
BAND 41. Low Channel Edge Plot (15 MHz Ch.39725 QPSK RB 75)



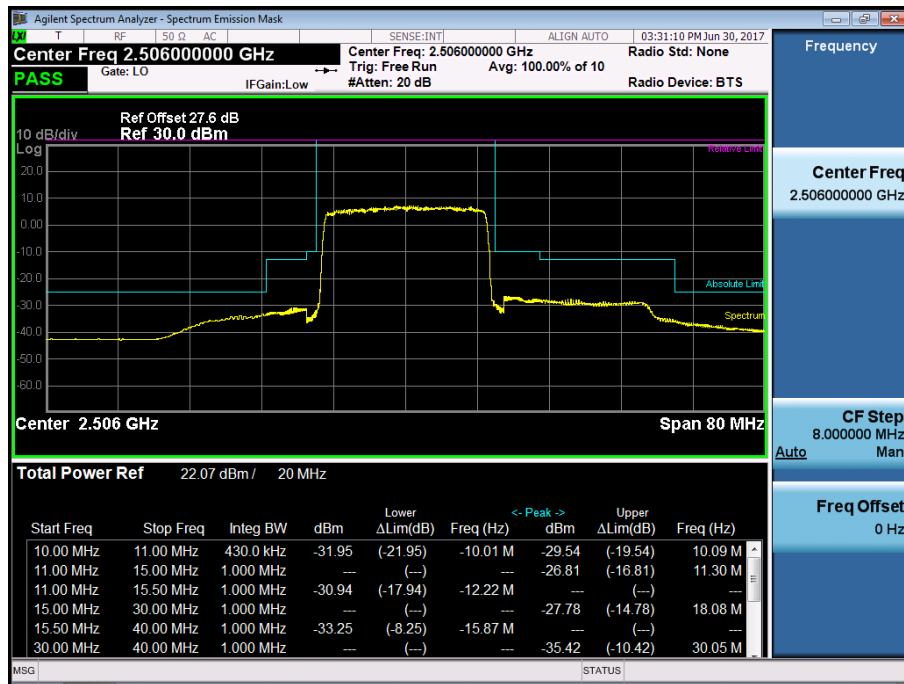
BAND 41. Mid Channel Edge Plot (15 MHz Ch.40620 QPSK RB 75)



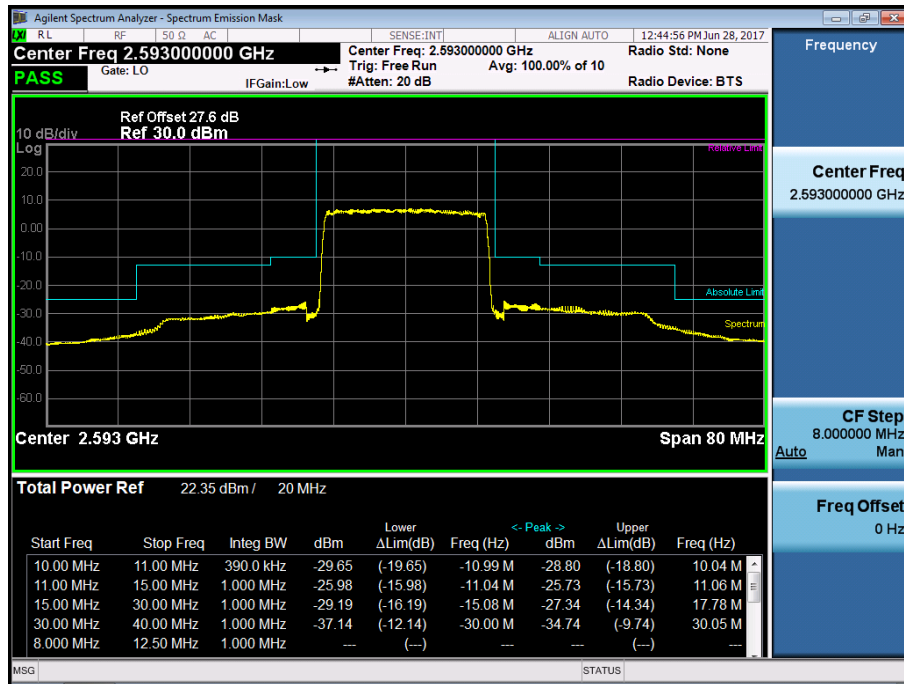
BAND 41. High Channel Edge Plot (15 MHz Ch.41515 QPSK RB 75)



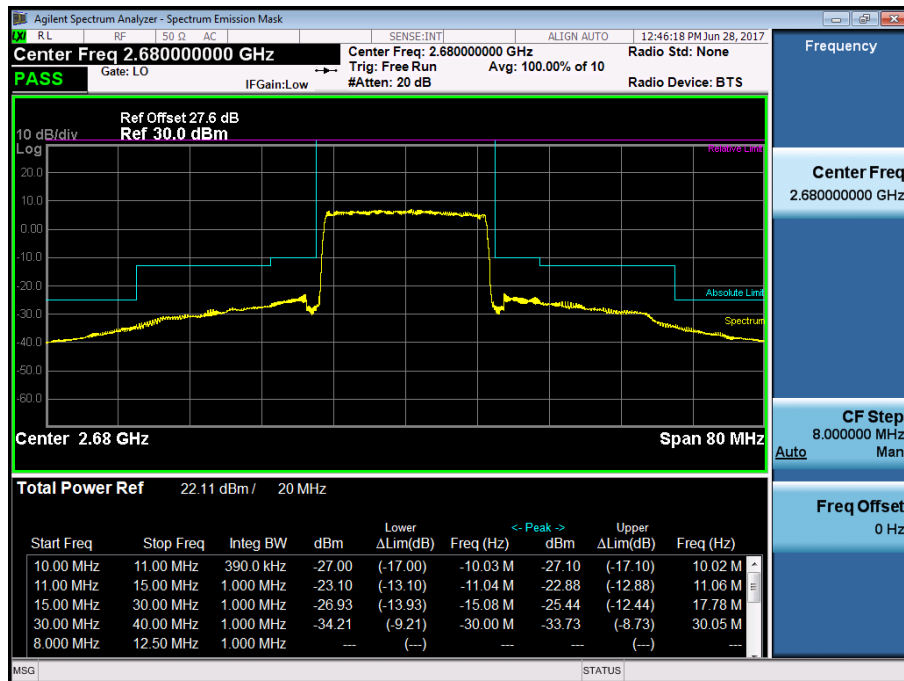
BAND 41. Low Channel Edge Plot (20 MHz Ch.39750 QPSK RB 100)



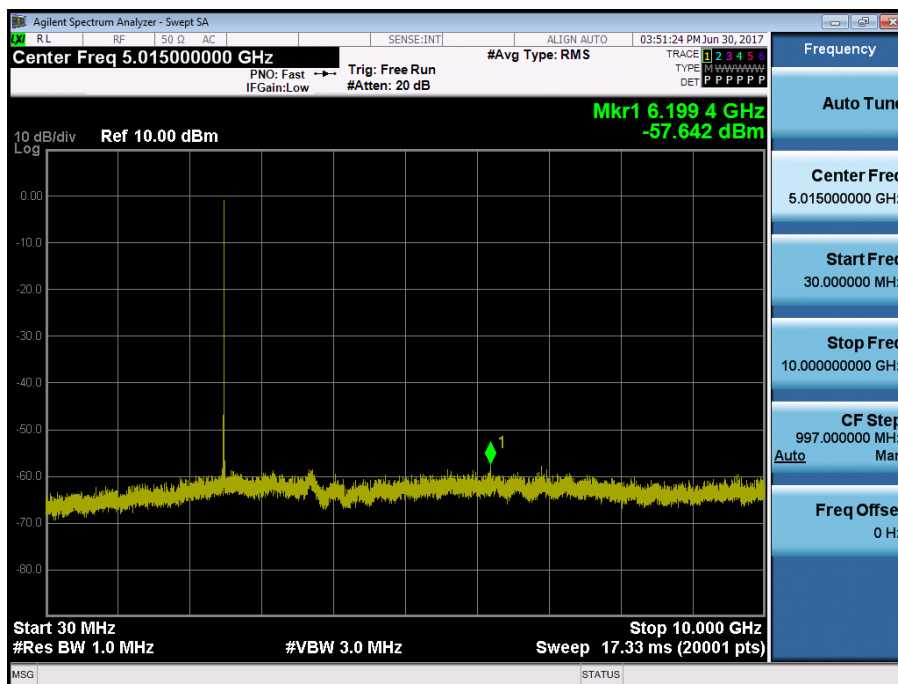
BAND 41. Mid Channel Edge Plot (20 MHz Ch.40620 QPSK RB 100)



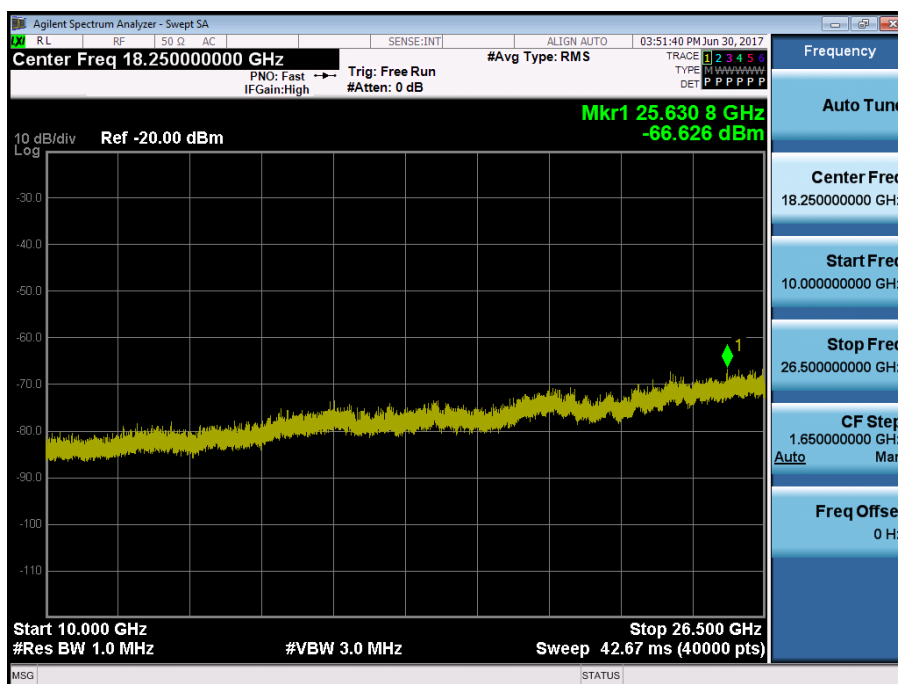
BAND 41. High Channel Edge Plot (20 MHz Ch.41490 QPSK RB 100)



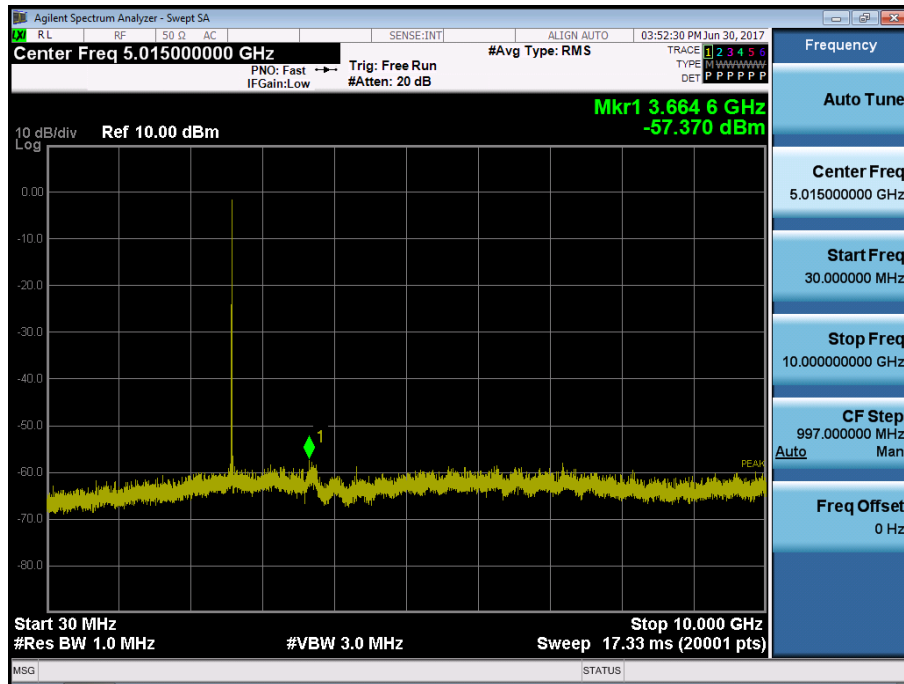
BAND 41. Conducted Spurious Plot 1 (5 MHz Ch.39675 QPSK RB 1, Offset 0)



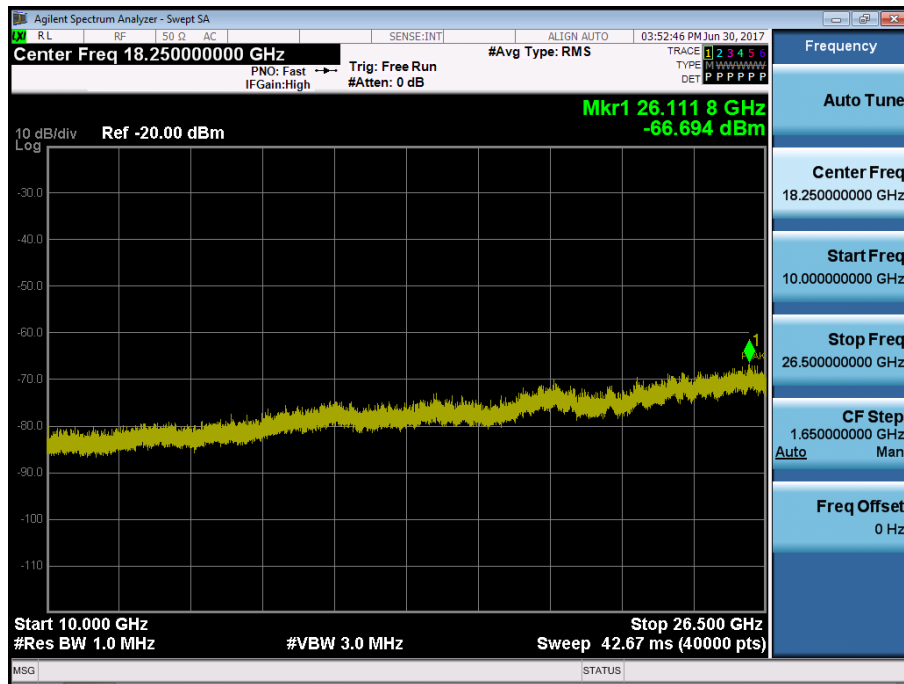
BAND 41. Conducted Spurious Plot 2 (5 MHz Ch. 39675 QPSK RB 1, Offset 0)



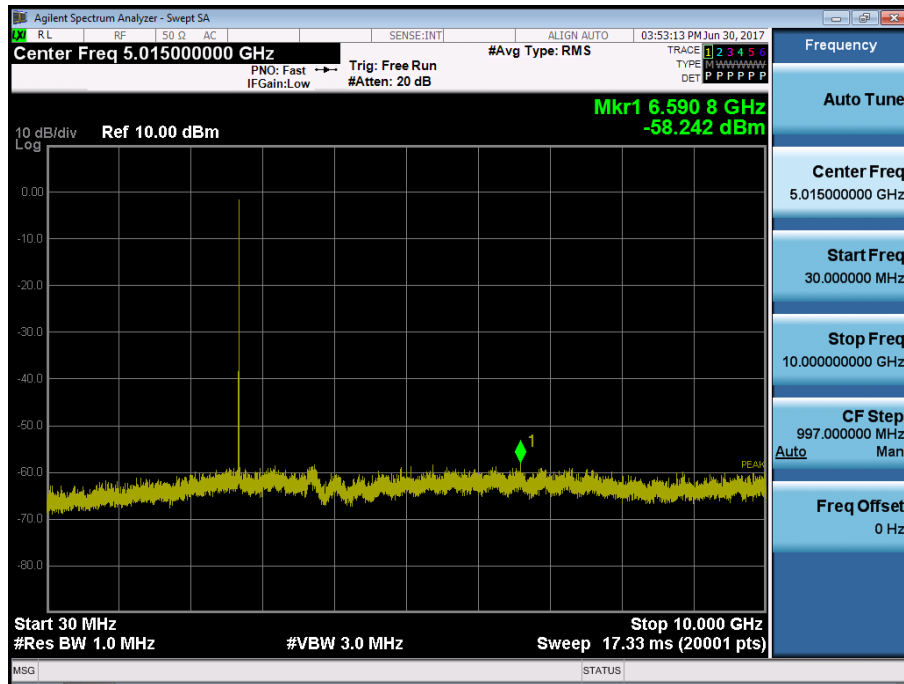
BAND 41. Conducted Spurious Plot 1 (5 MHz Ch.40620 QPSK RB 1, Offset 0)



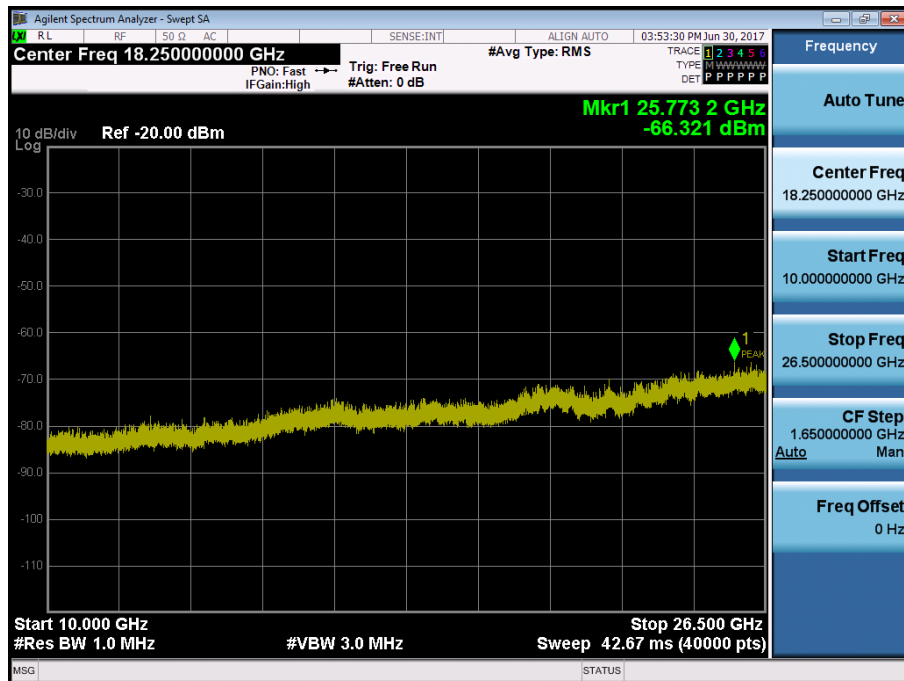
BAND 41. Conducted Spurious Plot 2 (5 MHz Ch. 40620 QPSK RB 1, Offset 0)



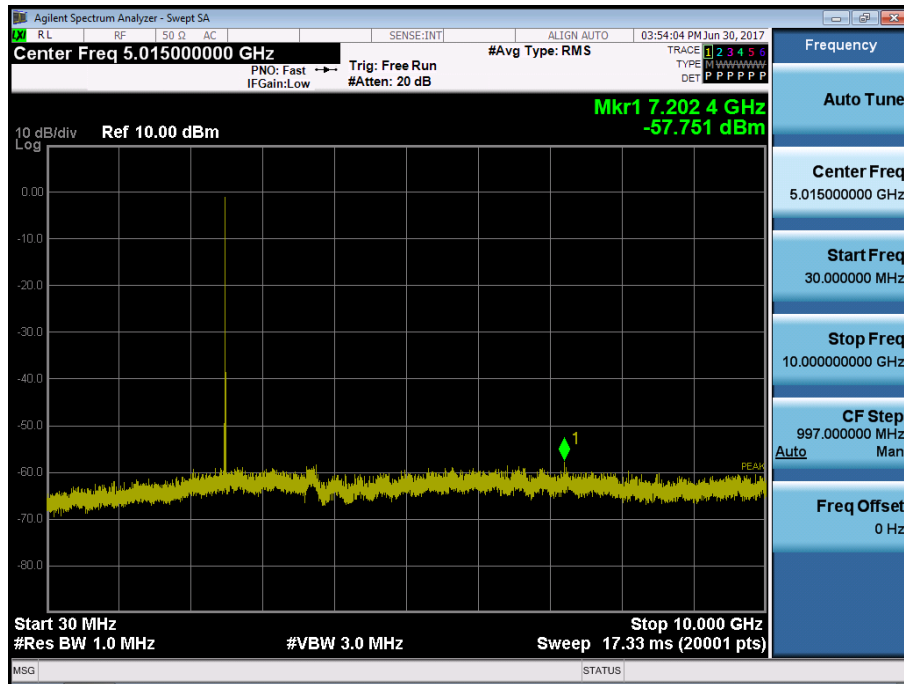
BAND 41. Conducted Spurious Plot 1 (5 MHz Ch.41565 QPSK RB 1, Offset 0)



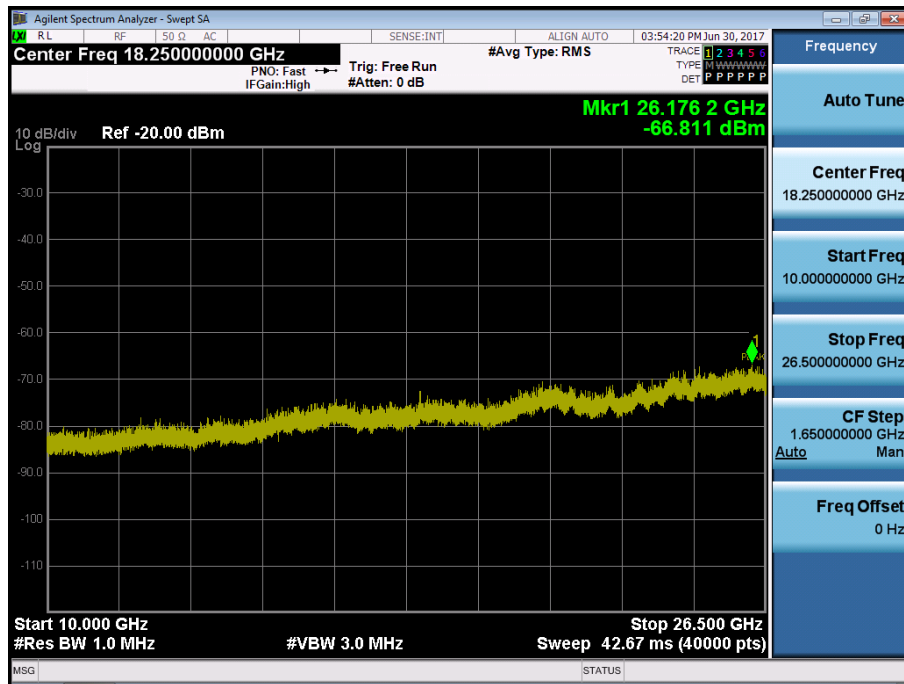
BAND 41. Conducted Spurious Plot 2 (5 MHz Ch. 41565 QPSK RB 1, Offset 0)



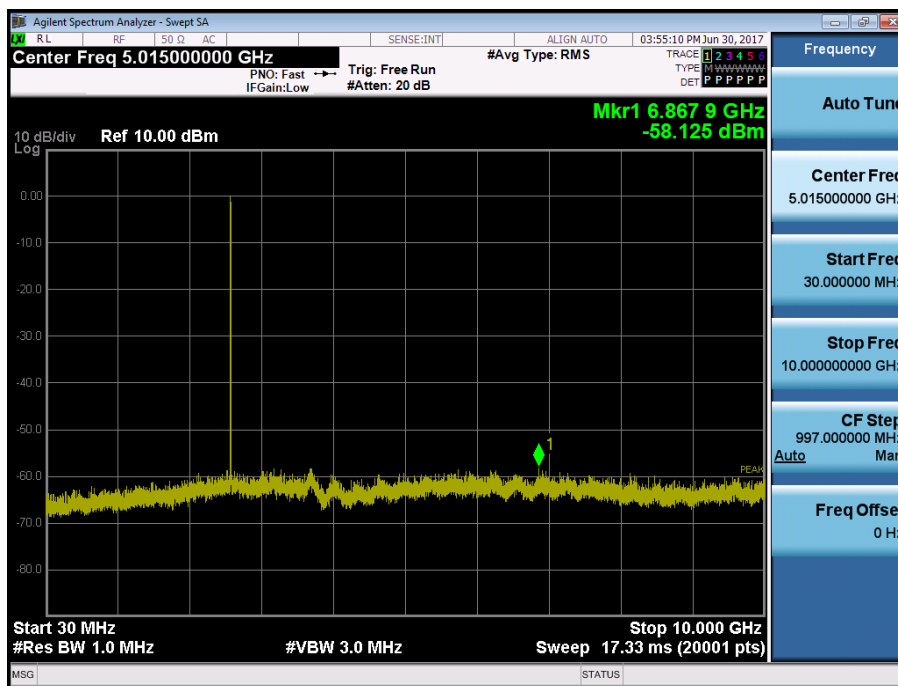
BAND 41. Conducted Spurious Plot 1 (10 MHz Ch.39700 QPSK RB 1, Offset 0)



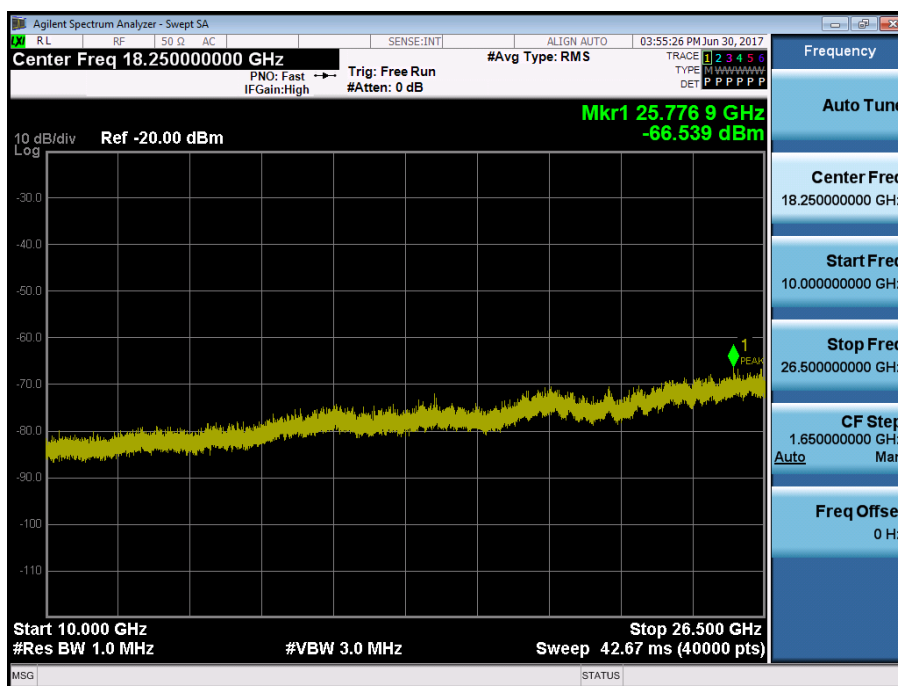
BAND 41. Conducted Spurious Plot 2 (10 MHz Ch. 39700 QPSK RB 1, Offset 0)



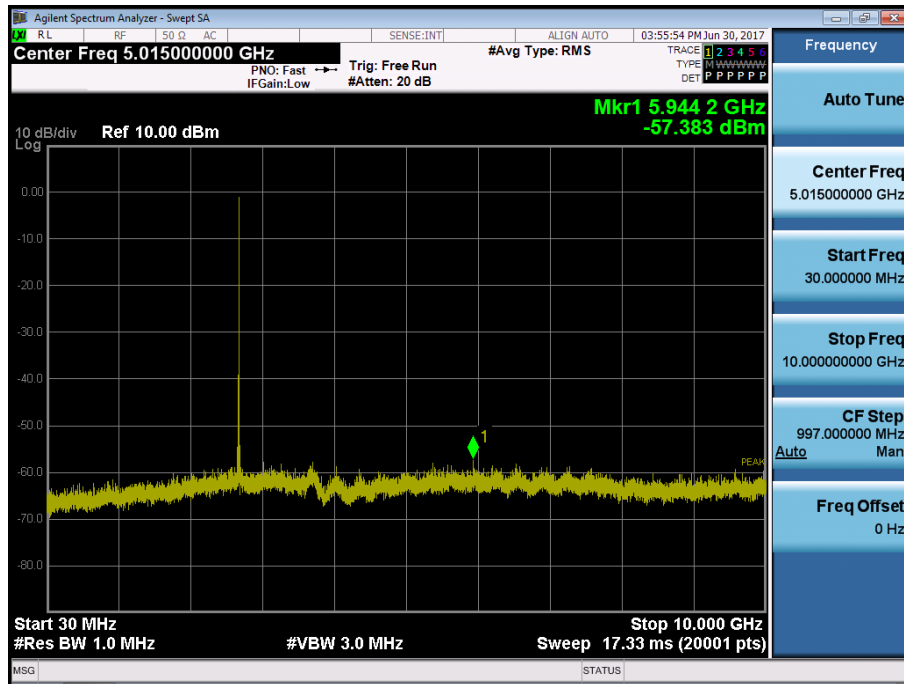
BAND 41. Conducted Spurious Plot 1 (10 MHz Ch.40620 QPSK RB 1, Offset 0)



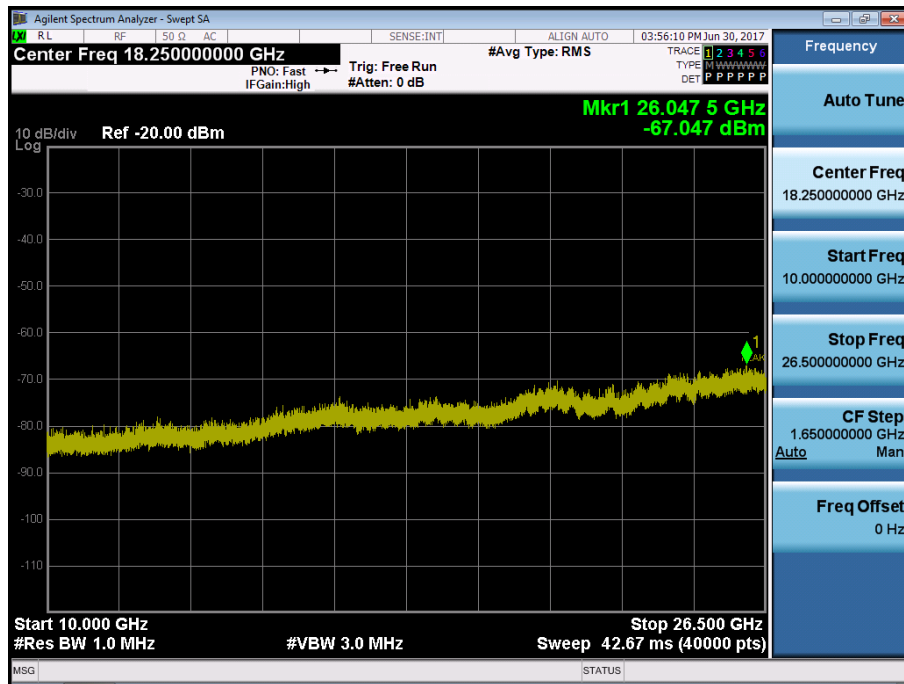
BAND 41. Conducted Spurious Plot 2 (10 MHz Ch. 40620 QPSK RB 1, Offset 0)



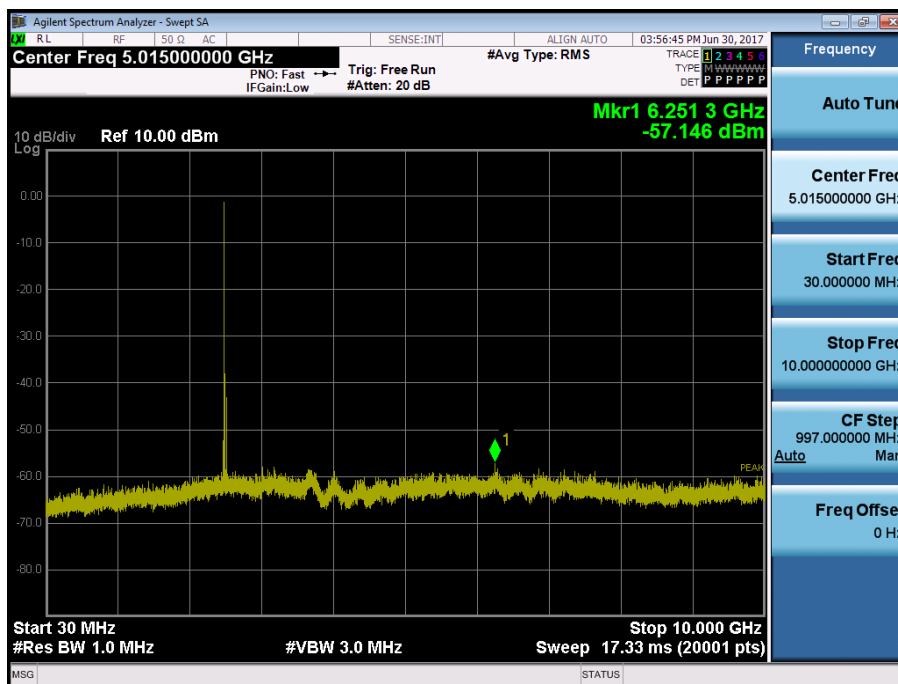
BAND 41. Conducted Spurious Plot 1 (10 MHz Ch.41540 QPSK RB 1, Offset 0)



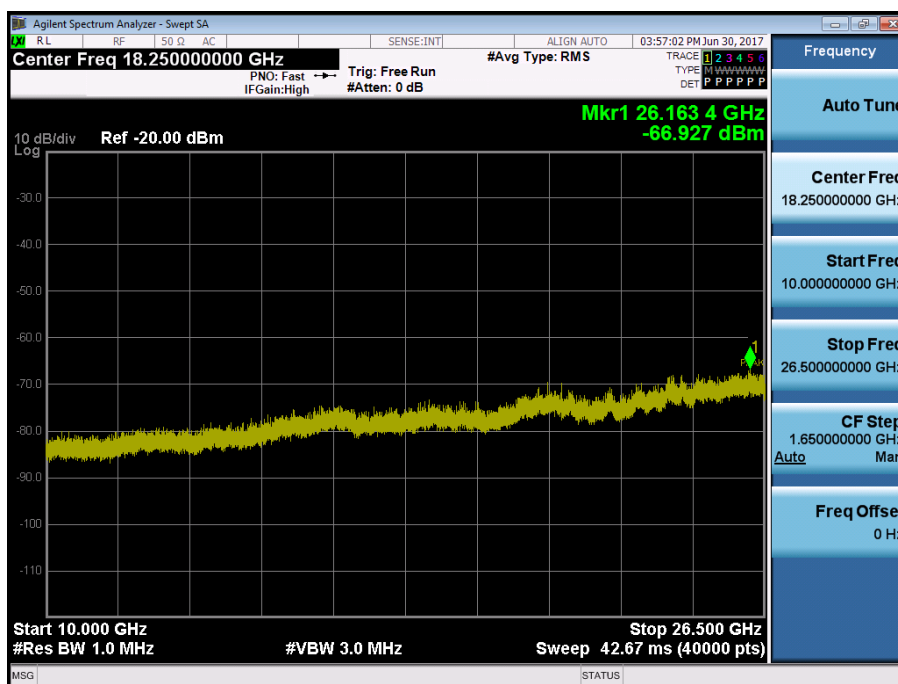
BAND 41. Conducted Spurious Plot 2 (10 MHz Ch. 41540 QPSK RB 1, Offset 0)



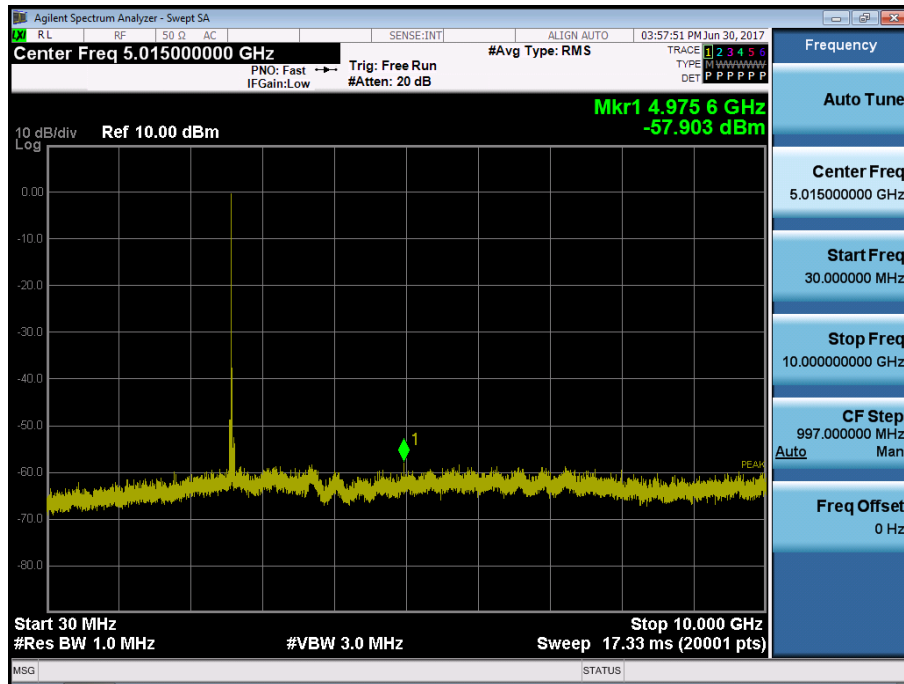
BAND 41. Conducted Spurious Plot 1 (15 MHz Ch.39725 QPSK RB 1, Offset 0)



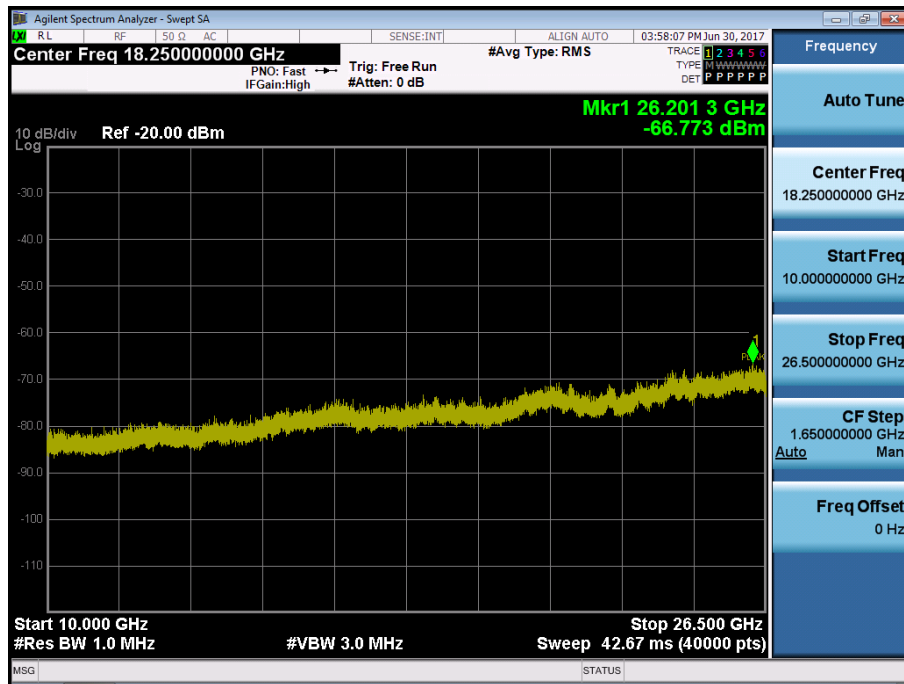
BAND 41. Conducted Spurious Plot 2 (15 MHz Ch. 39725 QPSK RB 1, Offset 0)



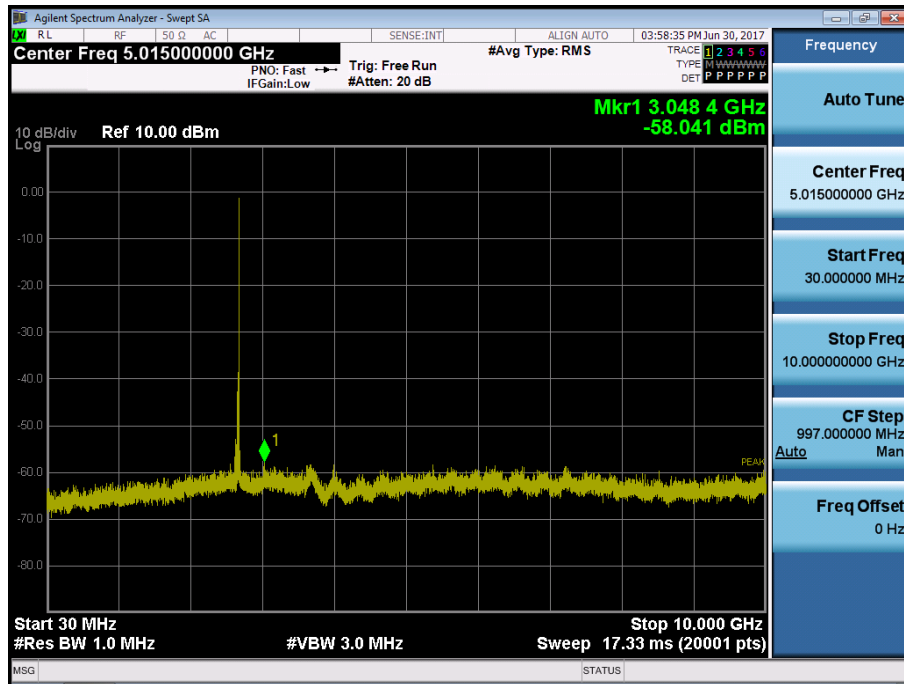
BAND 41. Conducted Spurious Plot 1 (15 MHz Ch.40620 QPSK RB 1, Offset 0)



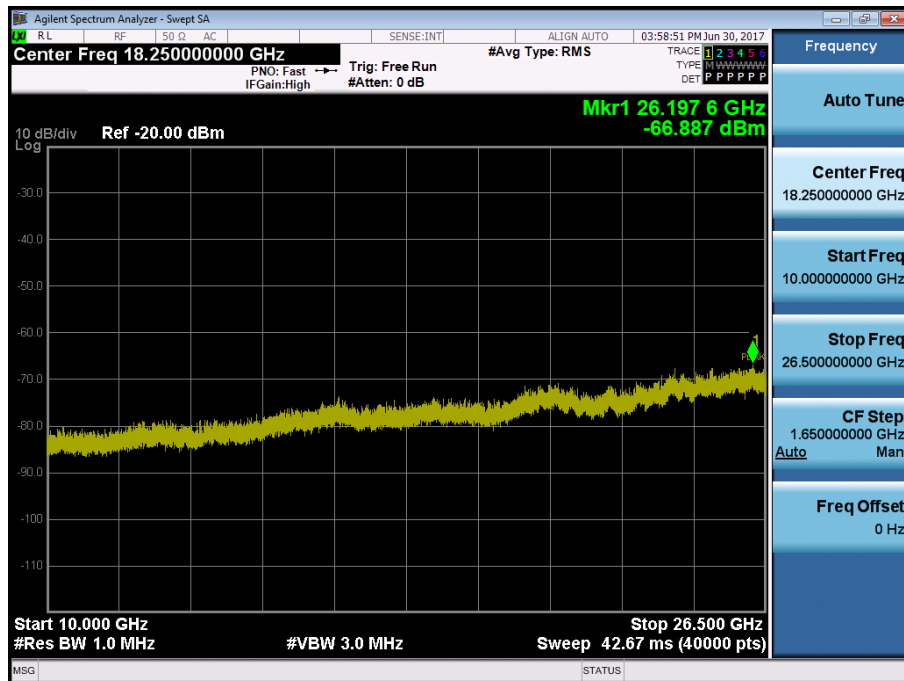
BAND 41. Conducted Spurious Plot 2 (15 MHz Ch. 40620 QPSK RB 1, Offset 0)



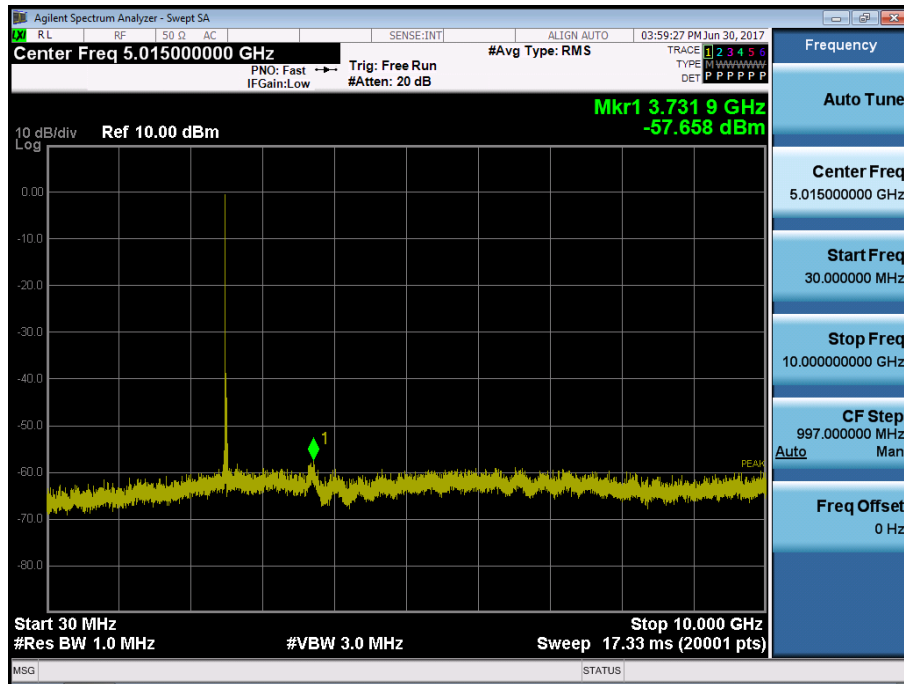
BAND 41. Conducted Spurious Plot 1 (15 MHz Ch.41515 QPSK RB 1, Offset 0)



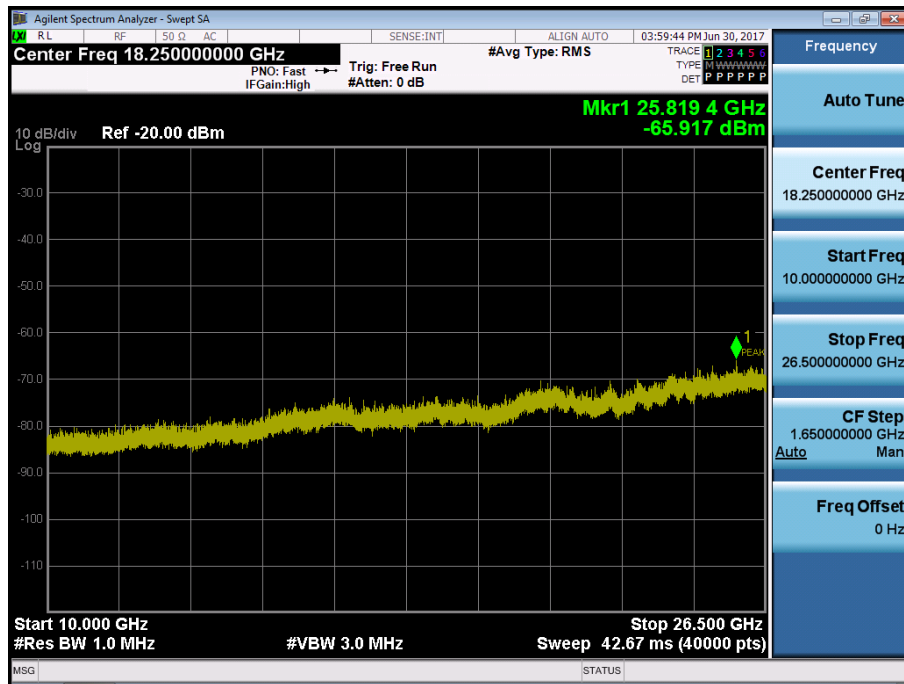
BAND 41. Conducted Spurious Plot 2 (15 MHz Ch. 41515 QPSK RB 1, Offset 0)



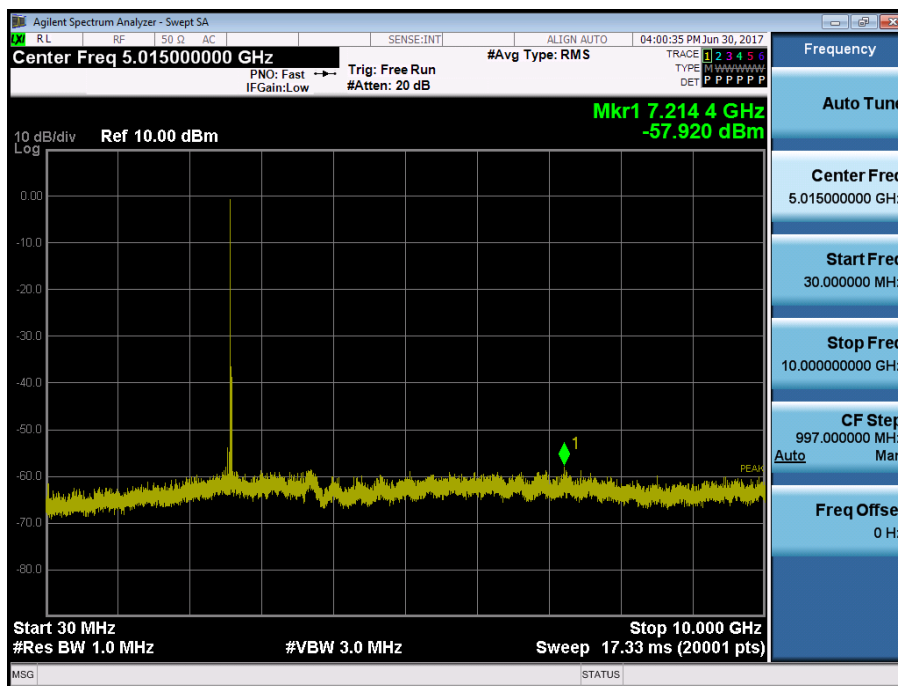
BAND 41. Conducted Spurious Plot 1 (20 MHz Ch.39750 QPSK RB 1, Offset 0)



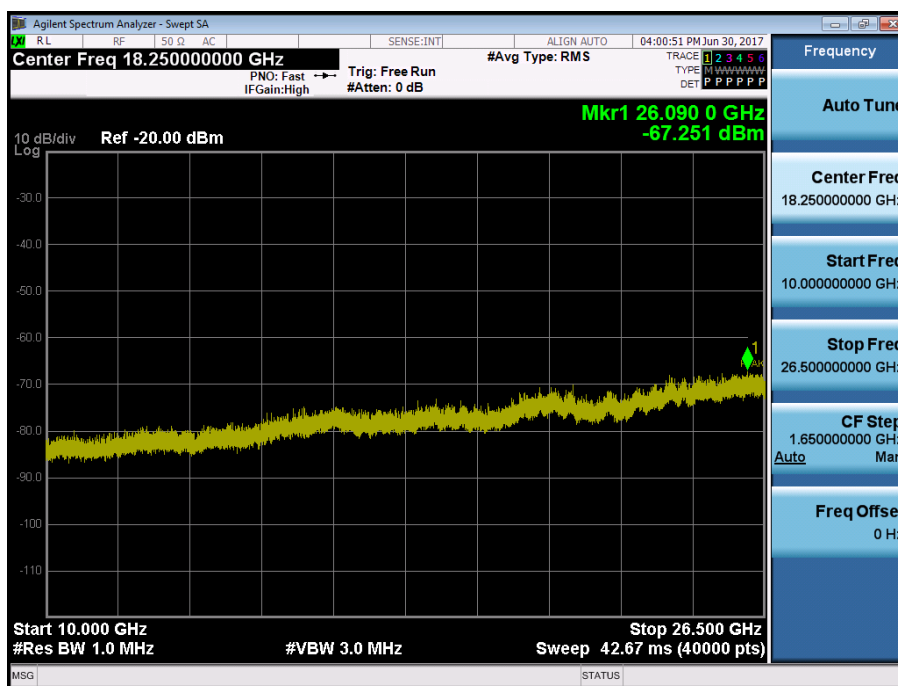
BAND 41. Conducted Spurious Plot 2 (20 MHz Ch. 39750 QPSK RB 1, Offset 0)



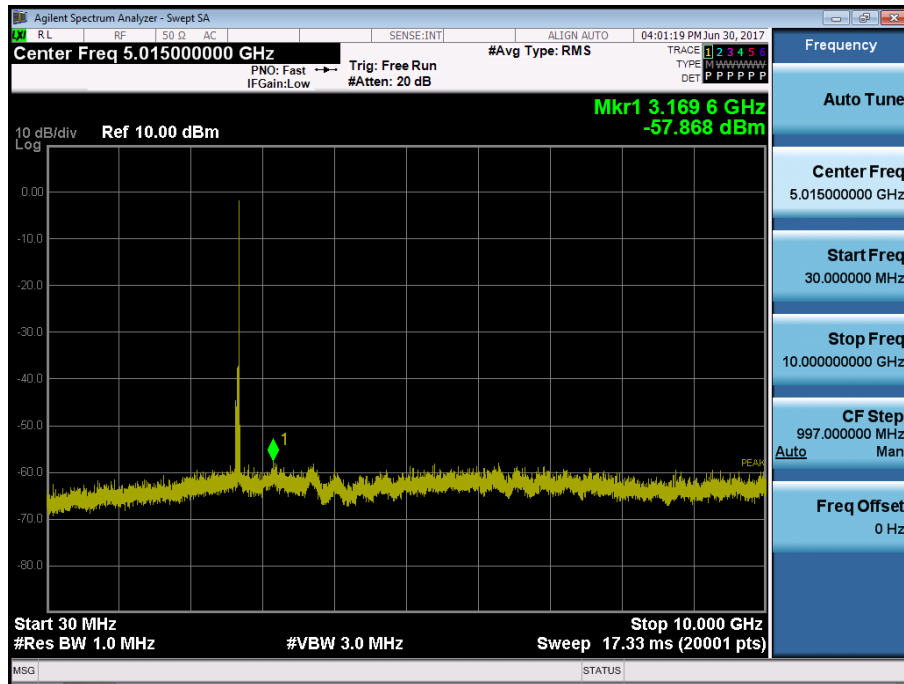
BAND 41. Conducted Spurious Plot 1 (20 MHz Ch.40620 QPSK RB 1, Offset 0)



BAND 41. Conducted Spurious Plot 2 (20 MHz Ch. 40620 QPSK RB 1, Offset 0)



BAND 41. Conducted Spurious Plot 1 (20 MHz Ch.41490 QPSK RB 1, Offset 0)



BAND 41. Conducted Spurious Plot 2 (20 MHz Ch. 41490 QPSK RB 1, Offset 0)

