Electromagnetic Compatibility
Test Report

Test Report No: MOB 260117 Rev. 2
Issued on: June 07, 2017

Product Name
MCU-10

Tested According to
FCC 47 CFR, Part 15.247

Tests Performed for
MOBILICOM
HaMetzoda 31, Azor 58001, Israel
Tel: 0777 10 30 60

QualiTech EMC Laboratory
30 Hasivim Street,P.O.Box 7500
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Certificate 1633.01
Electrical Testing

Test Personnel

Tests Performed By: ----------

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Report Prepared By: ----------

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Report Approved By: ----------

Rami Nataf
EMC Lab. Manager
QualiTech EMC Laboratory

Test Report details:

Test commencement date: 15.09.2016
Test completion date: 06.11.2016
Customer's representative: Haim Zak
Issued on: 26.01.2017

Revision details:

Version	Date	Details/Reasons
Rev. 1	26.01.2017	-
Rev. 2	07.06.2017	Corrected/updated per TCB comments.

Assessment information:

This report contains an assessment of the EUT against Electromagnetic Compatibility based upon tests carried out on the samples submitted. The results contained in this report relate only to the items tested. Manufactured products will not necessarily give identical results due to production and measurement tolerances. QualiTech, EMC Lab does not assume responsibility for any conclusion and generalization drawn from the test results with regards to other specimens or samples of type of the equipment represented by test item.

The EUT was set up and exercised using the configuration, modes of operation and arrangements defined in this report only.

Modifications:

Modifications made to the EUT

None

Modifications made to the Test Standard

None

Summary of Compliance Status

Test Spec. Clause	Test Case	Remarks
47 CFR §15.247 (a) (2)	DTS Bandwidth	Pass
47 CFR §15.247 (b) (3) (4)	Fundamental Emission Output Power	Pass
47 CFR §15.247 (e)	Maximum Power Spectral Density Level in the Fundamental Emission	Pass
47 CFR §15.247 (d)	Emissions in Non-Restricted Frequency Bands	Pass
47 CFR §15.247 (d), & §15.205, & §15.209(a)	Emissions in Restricted Frequency Bands	Pass
47 CFR §15.247 (d)	Band-edge Measurements	Pass
47 CFR §15.203	Antenna Connector Requirements	Pass

Table of Contents

1. General Description

1.1. Referenced documents:

ANSI C63.4-2014	Limits and Methods of Measurement for Conducted and Radiated Emissions of Information Technology Equipment
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

1.2. Description of the EUT system/test Item:

Product name: SkyHopper family: MCU-10,SkyHopper Pro, SkyHopper ONE, X3mer

FCC ID: Q88-MSH-10

Description:

SkyHopper Pro offers wireless communication solutions that are specifically designed for professional commercial drones. By employing leading wireless technologies, the SkyHopper Pro delivers long range and Non-Line of Sight (N-LOS) communication that supports multiple transmission modes.

The SkyHopper Pro supports Point-to-Point and Point-to-Multipoint communication, thereby enabling various modes of operation such as communication for multi-drone operations and drone communication to multiple ground units and viewers (receivers).

Frequency range: 2403 – 2478 MHz for BW = 4.2 MHz bandwidth

2405 – 2475 MHz for BW = 8.4 MHz bandwidth

Type of Modulation: QPSK

Antenna Gain: 2.0 dBi

1.3. Worst Case Results:

In order to determine the worst-case emissions for all modes/data rates/tests and EUT's position(three axis- x,y,z), all modes/data rates and position were investigated for each required test to determine which produces the worst- case data and then full testing was performed in that mode/data rate and position,

2. Test Facility & Uncertainty of Measurement

2.1. Accreditation/ Registration reference:

- *A2LA Certificate Number: 1633.01*

2.2. Test Facility description

The tests were performed at the EMC Laboratory, QualiTech Division, ECI Telecom Group

Address: 30, Hasivim St., Petah Tikva, Israel.
Tel: 972-3-926-8443

Semi Anechoic Configuration:

Measurement distance	3m
Chamber dimensions	9.5m x 6.5m x 5.2m
Antenna height	1 - 4m
Shielding Effectiveness	Magnetic field ≥80dB at 15 kHz ≥90dB at 100 kHz Electric field >120dB from 1MHz to 1GHz >110dB from 1GHz to 10GHz
Absorbing material	Ferrite tiles on the walls and ceiling Emerson & Cuming hybrid absorbing material in selected positions on the walls
Normalized Site Attenuation measured at 5 positions	±3.49dB, 30MHz to 1GHz
Transmission Loss measured at 5 positions, at 1.5m height	±3dB, 1GHz to 18GHz

2.3. Uncertainty of Measurement:

Test Name	Test Method & Range	Uncertainty	
		Combined std. Uc(y)	Expanded U
Radiated Emission	30MHz÷230MHz, Horiz. polar. 30MHz÷230MHz, Ver. polar. 230MHz÷1000MHz, Horiz. polar. 230MHz÷1000MHz, Vert. polar.	[dB] 1.8 1.967 1.487 1.499	[dB] 3.6 3.934 2.973 2.998
Conducted Emission	9 kHz÷150 kHz 150 kHz÷30MHz	[dB] 1.378 1.095	[dB] 2.756 2.190
Radio frequency	Up to 18 GHz	$\pm 1*10^{-6}$	$< \pm 1*10^{-5}$
Total Conducted RF Power	Up to 18 GHz	±1.378 dB	< ±1.5dB
Conducted Power density	Up to 18 GHz	±1.378 dB	< ±3dB
Temperature	23.6 °C	±0.6°C	< ±2°C
Humidity	54.9%	±3.1%	< ±5%
DC Voltage	0-60 VDC	±0.3%	< ±3%

3. Report of Measurements and Examinations

3.1. 6dB DTS Bandwidth

Reference document:	**47 CFR §15.247 (a)(2)**		
Test Requirements:	Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725–5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz for systems with antenna gain not exceed 6dBi.		
Test setup:	See sec 2.1	**Pass**	
Method of testing:	KDB 558074 D01 v03r05, Sec.8.2 Conducted		
Operating conditions:	Under normal test conditions		
S.A. Settings:	RBW: 100 kHz, VBW: 1 MHz		
Environment conditions:	Ambient Temperature: 21°C	Relative Humidity:48 %	Atmospheric Pressure: 1011.4 hPa
Test Result:	See below	See Plot 3.1.1 – Plot 3.1.12	

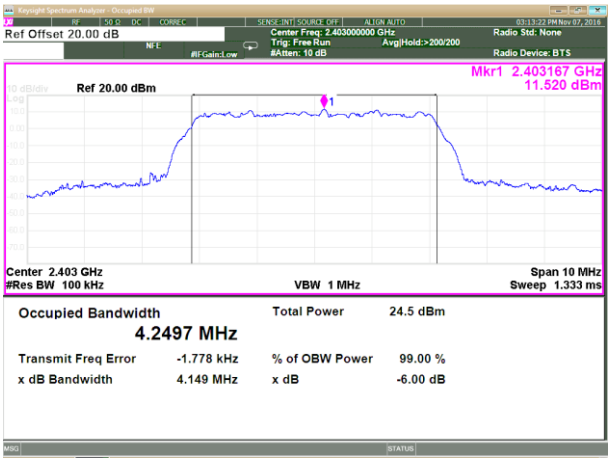
Test results for RF1 output:

Fundamental Frequency, [MHz]	6 dB DTS Bandwidth, [kHz]	Minimum Bandwidth, [kHz]	Pass/Fail
BW = 4.2 MHz, Bit Rate = 1.6 Mbps			
2403	4149	500	Pass
2440	4151	500	Pass
2478	4154	500	Pass
BW = 4.2 MHz, Bit Rate = 4.0 Mbps			
2403	4173	500	Pass
2440	4128	500	Pass
2478	4158	500	Pass
BW = 8.4 MHz, Bit Rate = 6.4 Mbps			
2405	8365	500	Pass
2440	8401	500	Pass
2475	8377	500	Pass
BW = 8.4 MHz, Bit Rate = 8.0 Mbps			
2405	8209	500	Pass
2440	8315	500	Pass
2475	8215	500	Pass

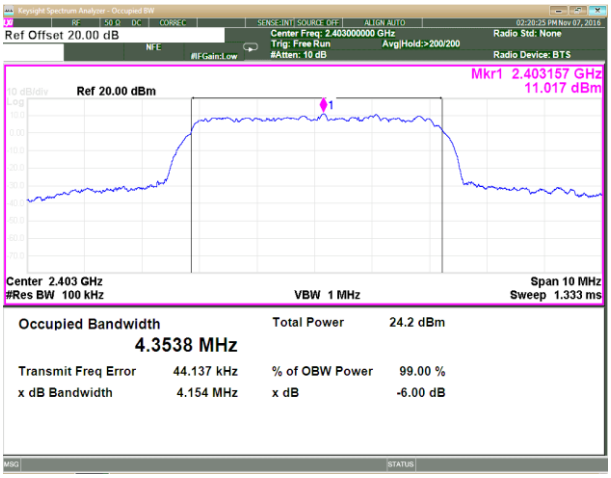
Test results for RF2 output:

Fundamental Frequency, [MHz]	6 dB DTS Bandwidth, [kHz]	Minimum Bandwidth, [kHz]	Pass/Fail
BW = 4.2 MHz, Bit Rate = 1.6 Mbps,			
2403	4154	500	Pass
2440	4153	500	Pass
2478	4150	500	Pass
BW = 4.2 MHz, Bit Rate = 4.0 Mbps,			
2403	4150	500	Pass
2440	4157	500	Pass
2478	4144	500	Pass
BW = 8.4 MHz, Bit Rate = 6.4 Mbps,			
2405	8368	500	Pass
2440	8379	500	Pass
2475	8356	500	Pass
BW = 8.4 MHz, Bit Rate = 8.0 Mbps,			
2405	8201	500	Pass
2440	8299	500	Pass
2475	8201	500	Pass

Plot 3.1.1 6 dB DTS Bandwidth, BW = 4.2 MHz, Bit rate = 1.6 Mbps, Fc = 2403MHz

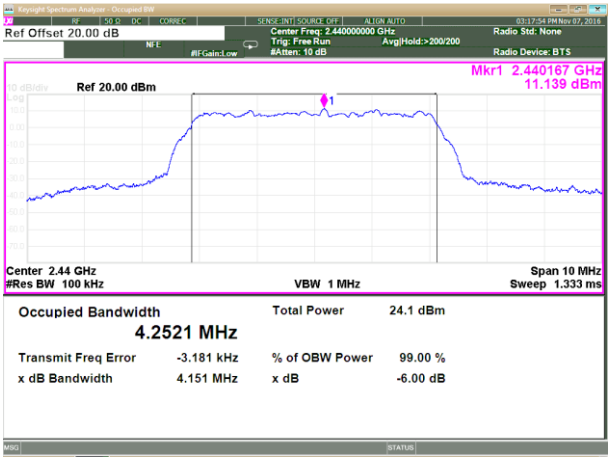


RF1

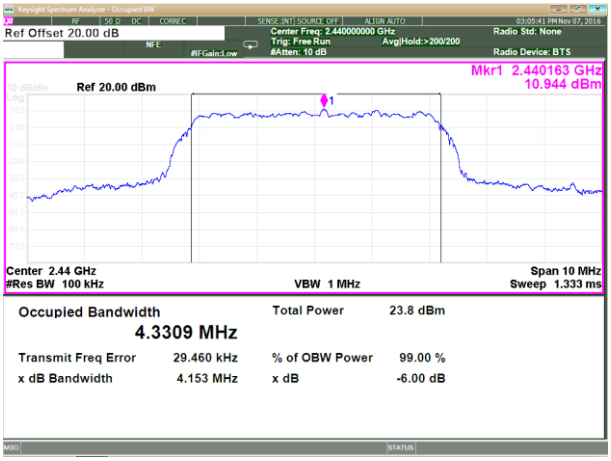


RF2

Plot 3.1.2 6 dB DTS Bandwidth, BW = 4.2 MHz, Bit rate = 1.6 Mbps, Fc = 2440MHz

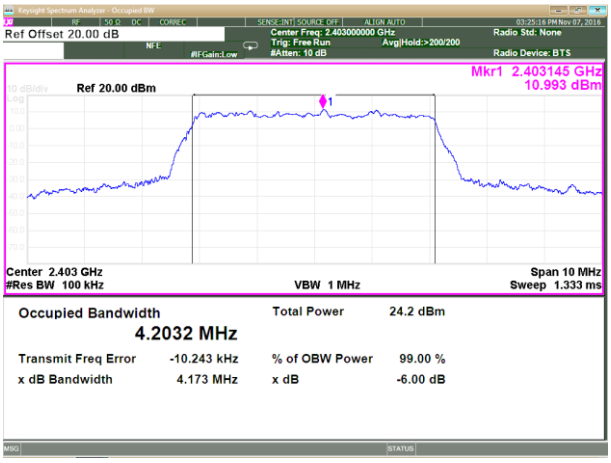


RF1

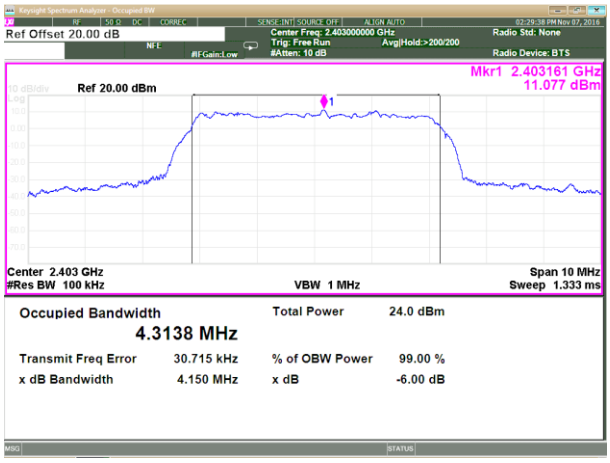


RF2

Plot 3.1.3 6 dB DTS Bandwidth, BW = 4.2 MHz, Bit rate = 4.0 Mbps, Fc = 2403MHz

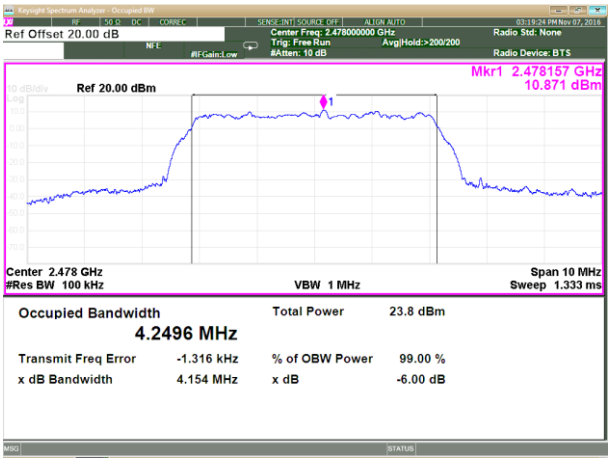


RF1

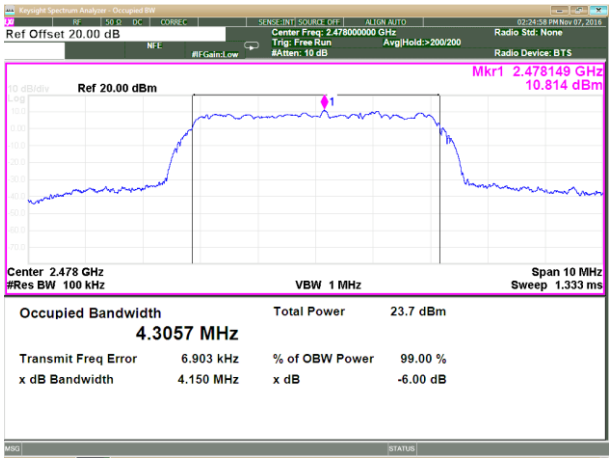


RF2

Plot 3.1.4 6 dB DTS Bandwidth, BW = 4.2 MHz, Bit rate = 1.6 Mbps, Fc = 2478MHz

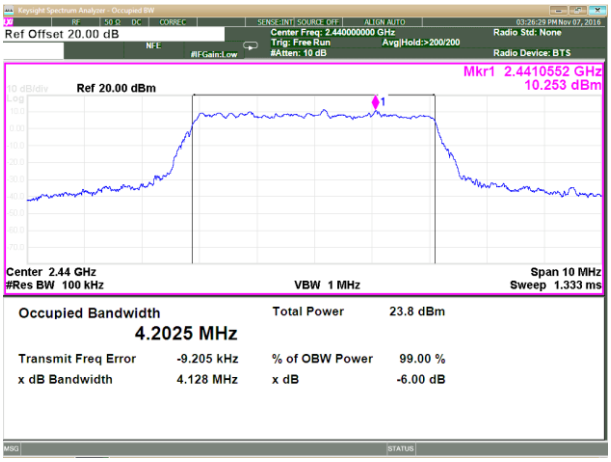


RF1

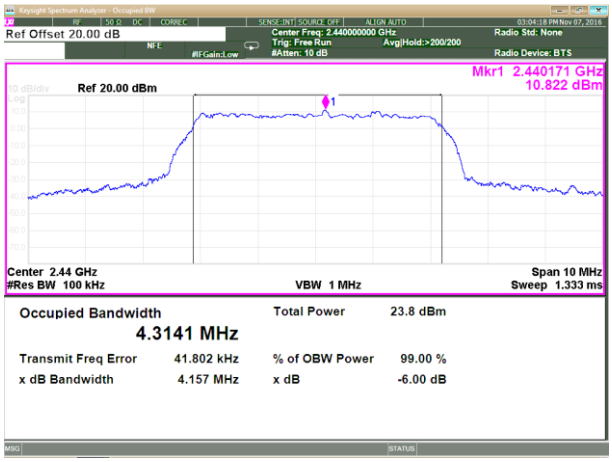


RF2

Plot 3.1.5 6 dB DTS Bandwidth, BW = 4.2 MHz, Bit rate = 4.0 Mbps, Fc = 2440

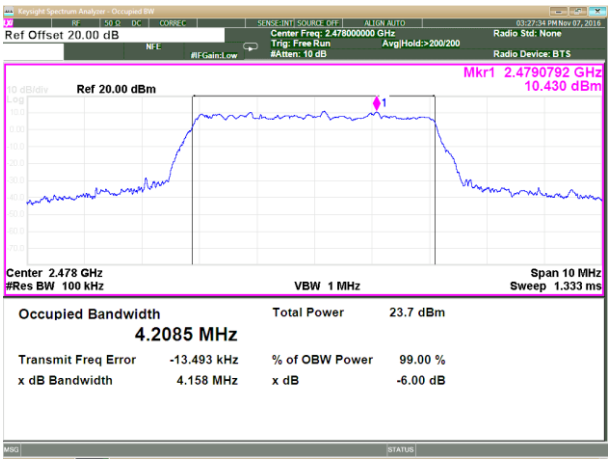


RF1

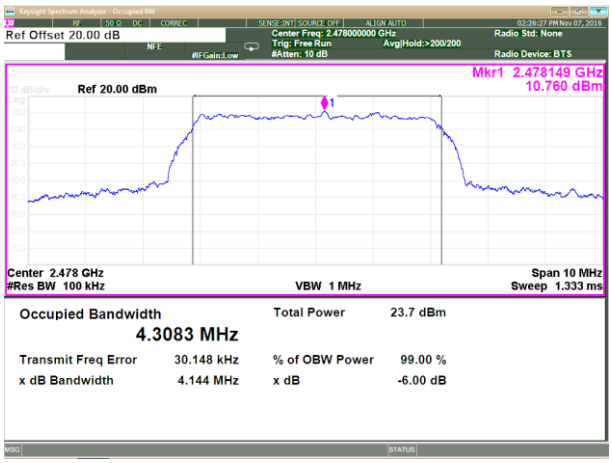


RF2

Plot 3.1.6 6 dB DTS Bandwidth, BW = 4.2 MHz, Bit rate = 4.0 Mbps, Fc = 2478MHz

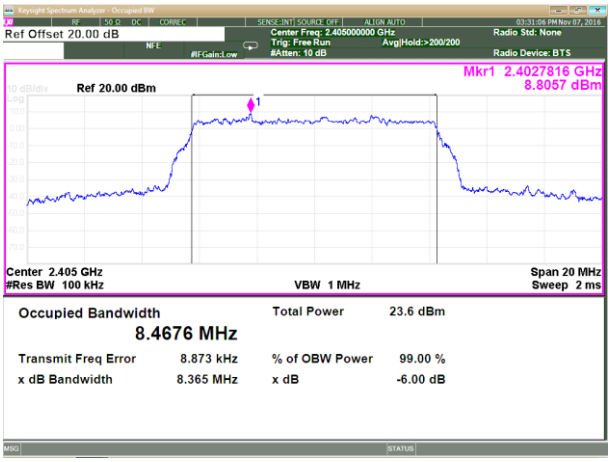


RF1

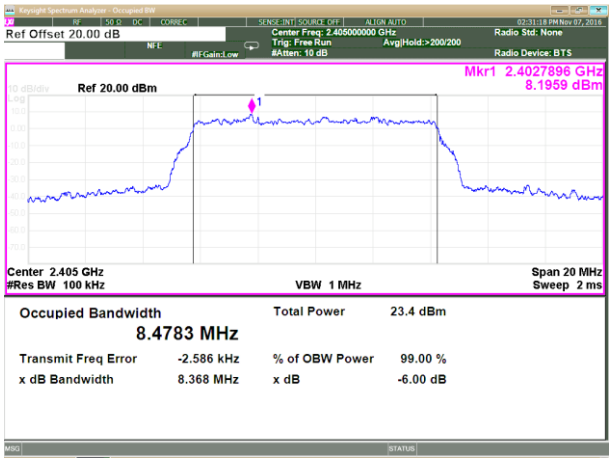


RF2

Plot 3.1.7 6 dB DTS Bandwidth, BW = 8.4 MHz, Bit rate = 6.4 Mbps, Fc = 2405 MHz

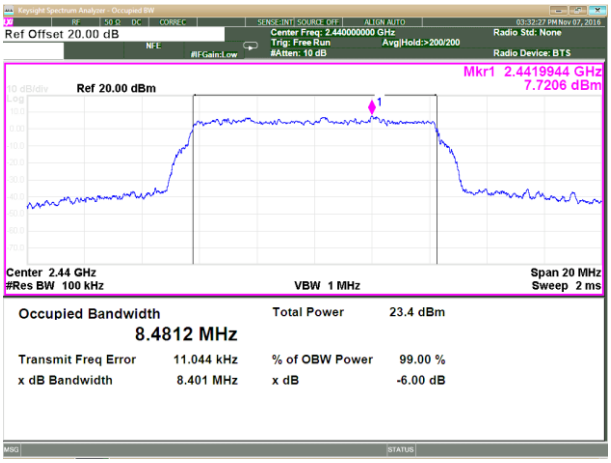


RF1

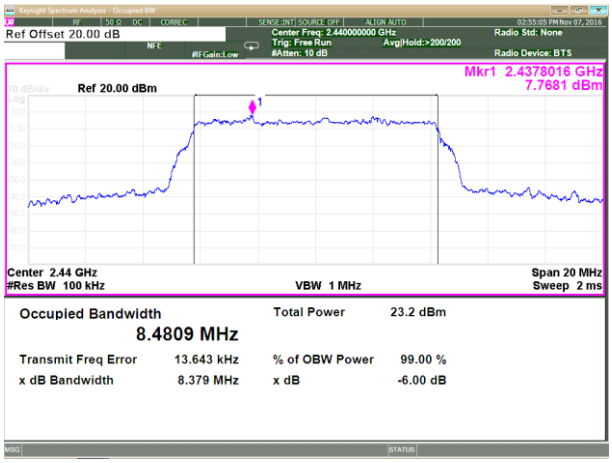


RF2

Plot 3.1.8 6 dB DTS Bandwidth, BW = 8.4 MHz, Bit rate = 6.4 Mbps, Fc = 2440 MHz

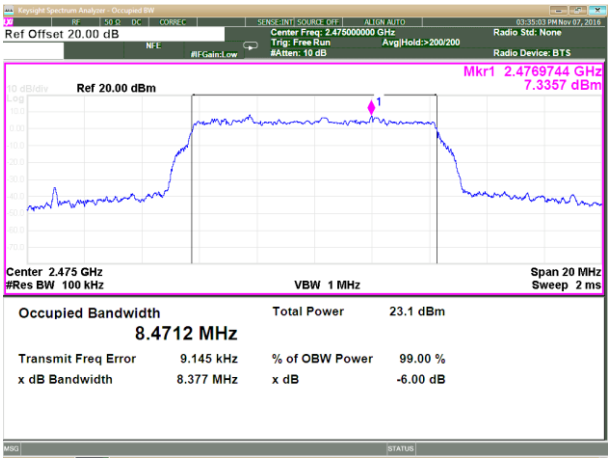


RF1

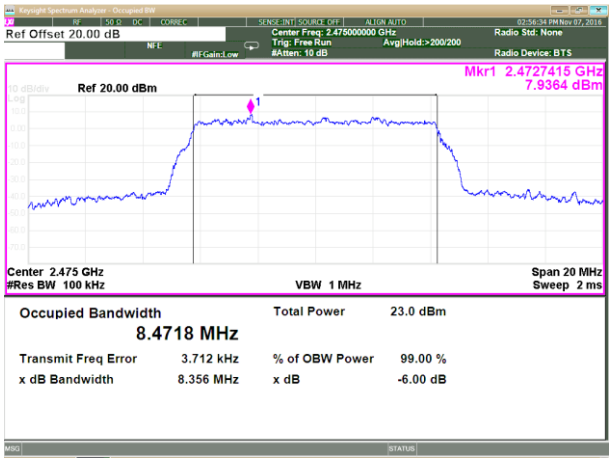


RF2

Plot 3.1.9 6 dB DTS Bandwidth, RF1 output, BW = 8.4 MHz, Bit rate = 6.4 Mbps, Fc = 2475 MHz

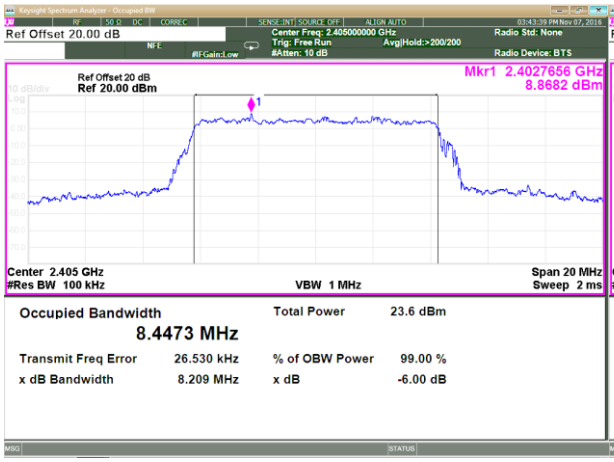


RF1

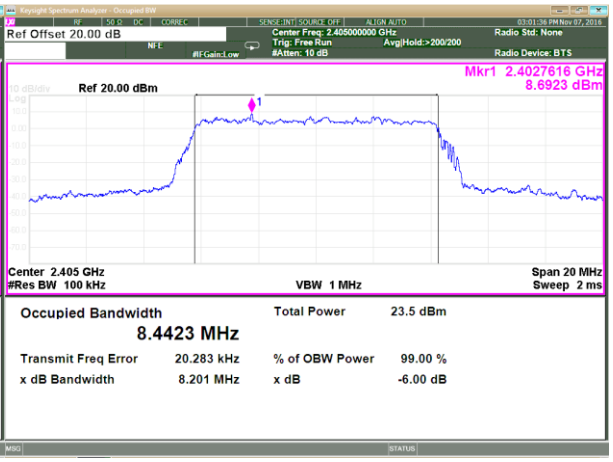


RF2

Plot 3.1.10 6 dB DTS Bandwidth, BW = 8.4 MHz, Bit rate = 8.0 Mbps, Fc = 2405 MHz

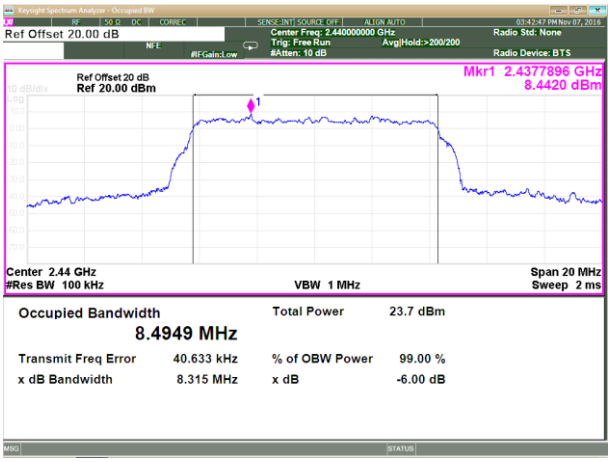


RF1

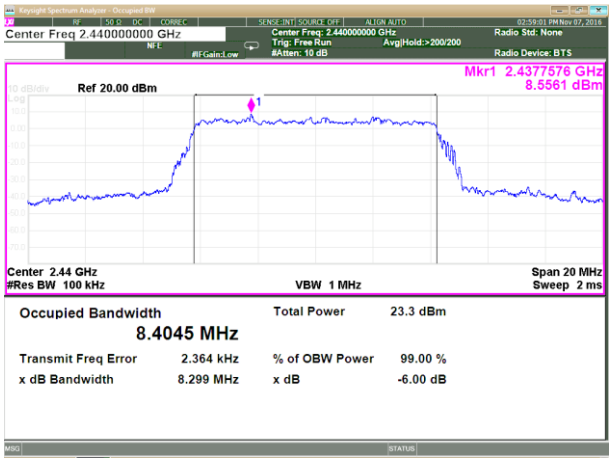


RF2

Plot 3.1.11 6 dB DTS Bandwidth, BW = 8.4 MHz, Bit rate = 8.0 Mbps, Fc = 2440 MHz

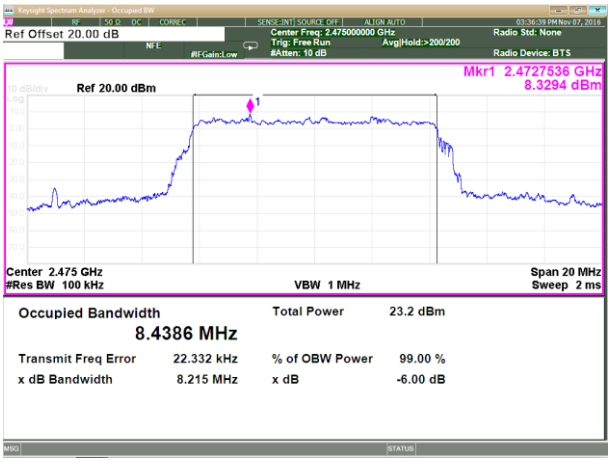


RF1

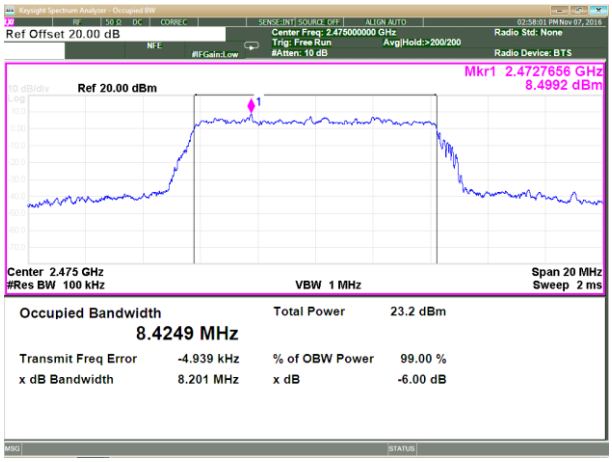


RF2

Plot 3.1.12 6 dB DTS Bandwidth, BW = 8.4 MHz, Bit rate = 8.0 Mbps, Fc = 2475 MHz



RF1



RF2

3.2. Fundamental Emission Output Power

Reference document:	**47 CFR §15.247 (b)(3)(4)**		
Test Requirements:	The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands shall not exceed 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted (average) output power. The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.		
Test setup:	See sec 2.1	**Pass**	
Method of testing:	KDB 558074 D01 v03r05, Sec.9.1.2, Conducted PKPM1		
Operating conditions:	Under normal test conditions		
Settings:	Triggered/signal-gated broadband power meter		
Environment conditions:	Ambient Temperature: 21°C	Relative Humidity: 48%	Atmospheric Pressure: 1011.4 hPa
Test Result:	See below	--	

Test Results:

Fundamental Frequency, [MHz]	Transmitter Output	Emission Output Power, [mW]		Limit,	Margin, [mW]	Pass/Fail
		Fundamental	Total	[mW]		
BW = 4.2 MHz, Bit Rate = 1.6 Mbps						
2403	RF1	500	924	1000	-76	Pass
	RF2	424				
2440	RF1	485	934	1000	-66	Pass
	RF2	449				
2478	RF1	444	934	1000	-66	Pass
	RF2	490				
BW = 4.2 MHz, Bit Rate = 4.0 Mbps						
2403	RF1	488	954	1000	-46	Pass
	RF2	466				
2440	RF1	457	898	1000	-102	Pass
	RF2	441				
2478	RF1	424	844	1000	-156	Pass
	RF2	420				
	RF2	436				
BW = 8.4 MHz, Bit Rate = 6.4 Mbps						
2405	RF1	313	623	1000	-377	Pass
	RF2	310				
2440	RF1	310	630	1000	-370	Pass
	RF2	320				
2475	RF1	290	570	1000	-430	Pass
	RF2	280				
BW = 8.4 MHz, Bit Rate = 8.0 Mbps						
2405	RF1	390	778	1000	-377	Pass
	RF2	388				
2440	RF1	400	770	1000	-370	Pass
	RF2	370				
2475	RF1	370	741	1000	-430	Pass
	RF2	371				

***Note:** a) Limit (Pout) = 30 – (Gtx – 6), where Gtx is the maximum transmitting antenna directional gain in dBi;

b) Per KDB 662911 D01 v02r01, directional gain of N transmit antennas in case of correlated transmit signals is computed as follows:

Gtx = Gant + 10 log(N) dBi = 2+10Log(2) = 5 dBi, Gant = 2 dBi per customer's declaration.

c) Hence, Pout = 30 dBm = 1Watt

3.3. Maximum Power Spectral Density Level in the Fundamental Emissions

Reference document:	**47 CFR §15.247 (e)**		
Test Requirements:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.		
Test setup:	See sec 2.1	**Pass**	
Method of testing:	KDB 558074 D01 v03r05, Sec.10.2 Conducted, PKPSD method		
Operating conditions:	Under normal test conditions		
S.A. Settings:	RBW: 3 kHz, VBW: 3 MHz		
Environment conditions:	Ambient Temperature: 21°C	Relative Humidity: 48%	Atmospheric Pressure: 1011.4 hPa
Test Result:	See below	See Plot 3.3.1 - Plot 3.3.12	

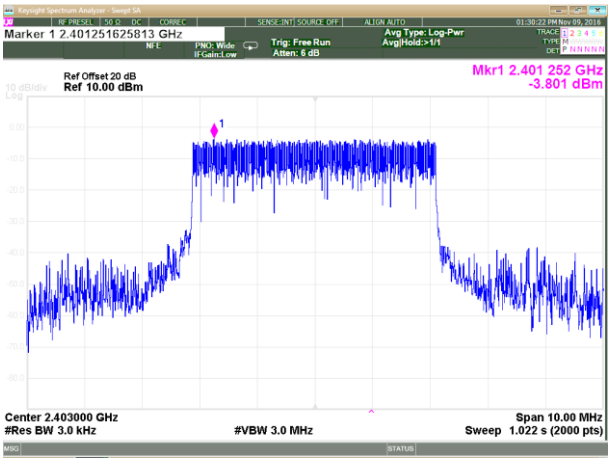
Test Results:

Fundamental Frequency, [MHz]	RF Output	PSD Measured, [dBm/3kHz]	Correction for 2 outputs*	Duty Cycle Correction Factor	PSD Corrected [dBm/3kHz]**	PSD Limit, [dBm/3kHz]	Margin, [dB]	Pass/ Fail
BW = 4.2 MHz, Bit Rate = 1.6 Mbps, continuous transmission								
2403	RF1	-3.80	3	NA	-0.8	8.0	-8.8	Pass
	RF2	-3.75			-0.8		-8.8	
2440	RF1	-3.82			-0.8	8.0	-8.8	Pass
	RF2	-3.94			-0.9		-8.9	
2478	RF1	-4.01			-1.0	8.0	-9.0	Pass
	RF2	-4.03			-1.0		-9.0	
BW = 4.2 MHz, Bit Rate = 4.0 Mbps, continuous transmission								
2403	RF1	-3.84	3	NA	-0.8	8.0	-8.8	Pass
	RF2	-3.78			-0.8		-8.8	
2440	RF1	-4.08			-1.1	8.0	-9.1	Pass
	RF2	-3.97			-1.0		-9.0	
2478	RF1	-4.25			-1.3	8.0	-9.3	Pass
	RF2	-4.05			-1.1		-9.1	
BW = 8.4 MHz, Bit Rate = 6.4 Mbps, continuous transmission								
2405	RF1	-3.69	3	NA	-0.7	8.0	-8.7	Pass
	RF2	-4.02			-1.0		-9.0	
2440	RF1	-3.90			-0.9	8.0	-8.9	Pass
	RF2	-4.24			-1.2		-9.2	
2475	RF1	-4.09			-1.1	8.0	-9.1	Pass
	RF2	-4.14			-1.1		-9.1	
BW = 8.4 MHz, Bit Rate = 8.0 Mbps, continuous transmission								
2405	RF1	-3.71	3	NA	-0.7	8.0	-8.7	Pass
	RF2	-3.99			-1.0		-9.0	
2440	RF1	-3.72			-0.7	8.0	-8.7	Pass
	RF2	-4.12			-1.1		-9.1	
2475	RF1	-4.12			-1.1	8.0	-9.1	Pass
	RF2	-4.31			-1.3		-9.3	

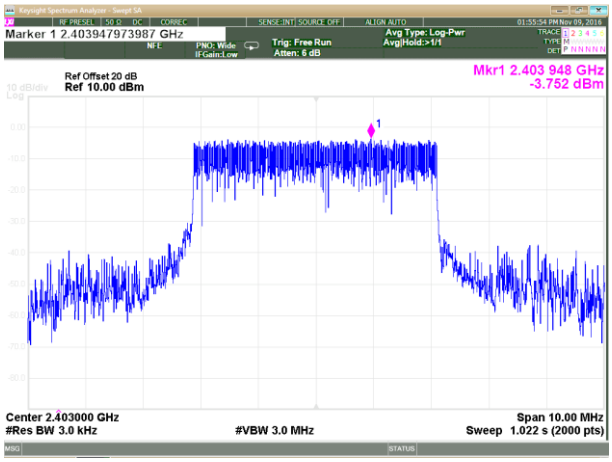
*Correction for N outputs = 10log(Nant), where Nant is the number of outputs

**PSD Corrected = PSD Measured + Correction for N outputs + Duty Cycle Correction Factor

Plot 3.3.1 Maximum Power Spectral Density test results, Fc = 2403MHz, BW = 4.2 MHz, Bit Rate = 1.6Mbps

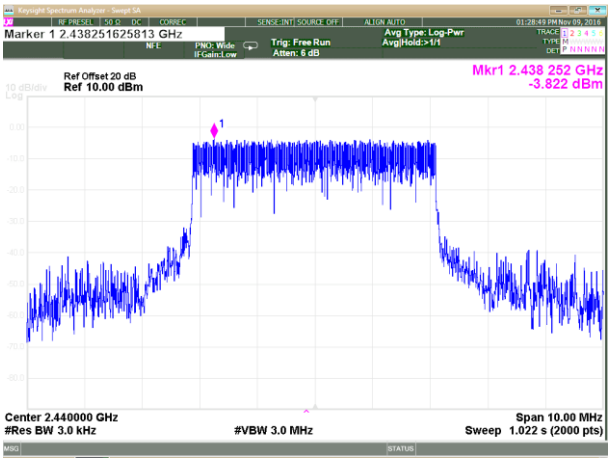


RF1

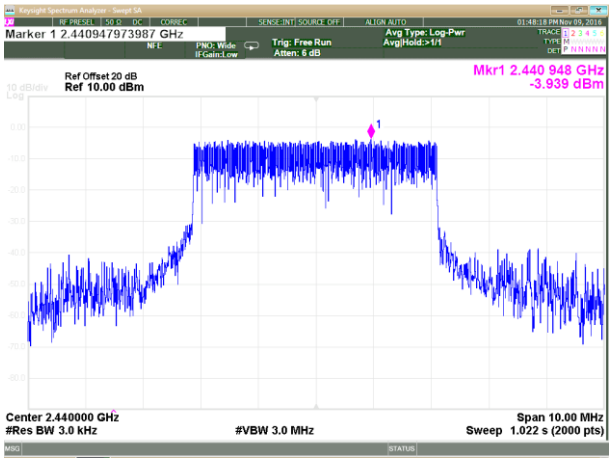


RF2

Plot 3.3.2 Maximum Power Spectral Density test results, Fc = 2440MHz, BW = 4.2 MHz, Bit Rate = 1.6 Mbps

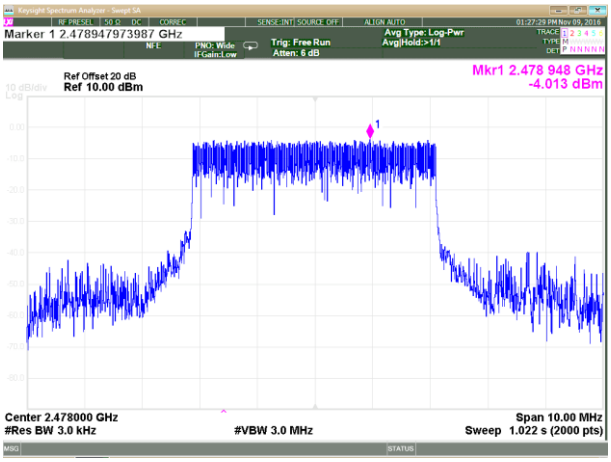


RF1

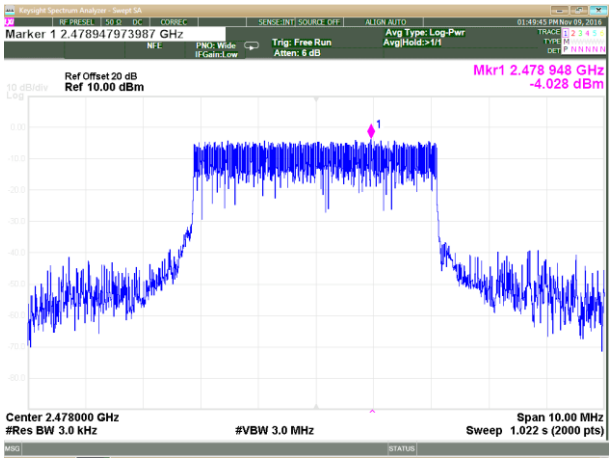


RF2

Plot 3.3.3 Maximum Power Spectral Density test results, Fc = 2478MHz, BW = 4.2 MHz, Bit Rate = 1.6 Mbps

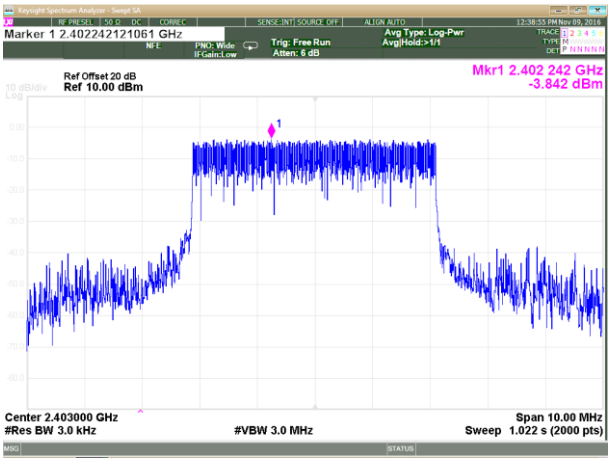


RF1

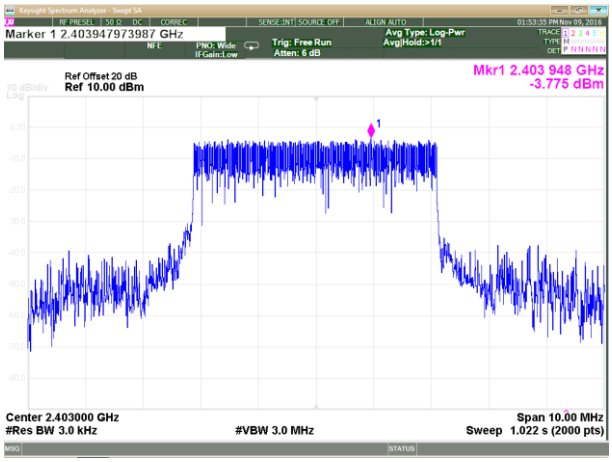


RF2

Plot 3.3.4 Maximum Power Spectral Density test results, Fc = 2403MHz, BW = 4.2 MHz, Bit Rate = 4 Mbps

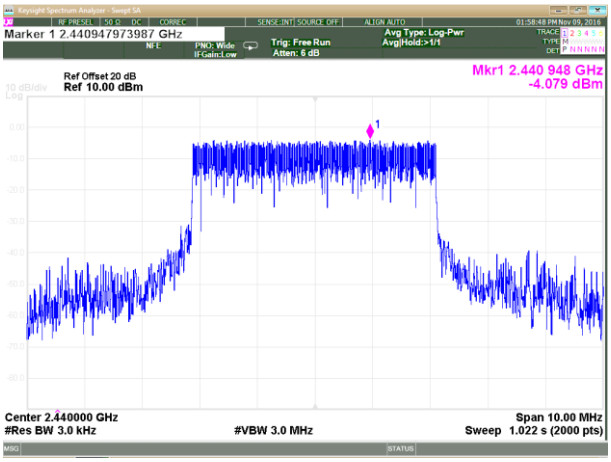


RF1

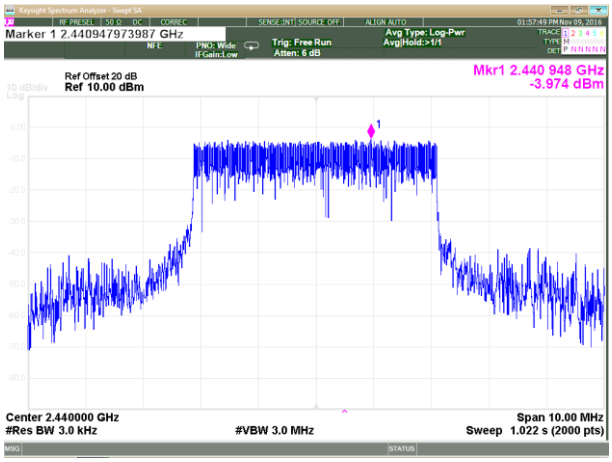


RF2

Plot 3.3.5 Maximum Power Spectral Density test results, Fc = 2440MHz, BW = 4.2 MHz, Bit Rate = 4 Mbps

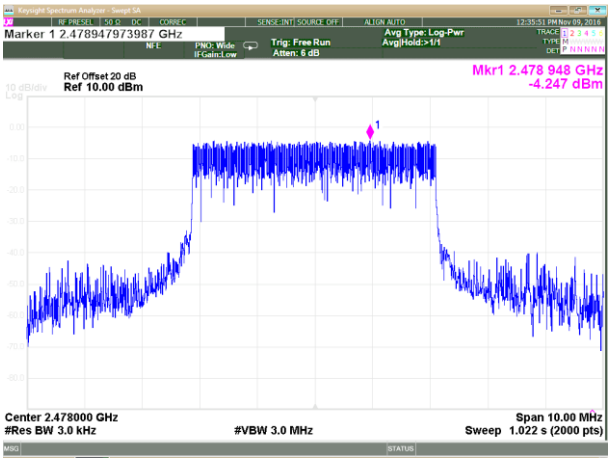


RF1

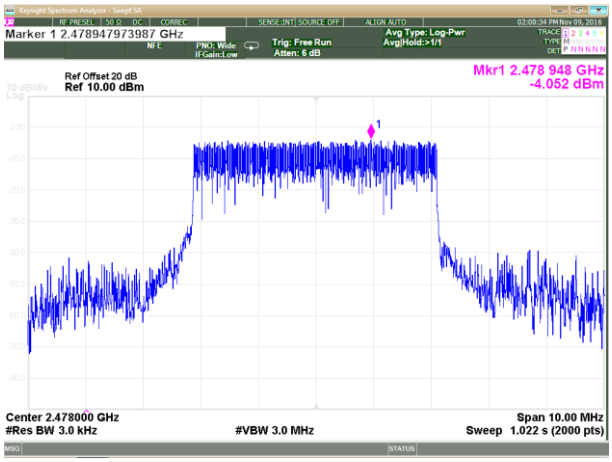


RF2

Plot 3.3.6 Maximum Power Spectral Density test results, Fc = 2478MHz, BW = 4.2 MHz, Bit Rate = 4 Mbps

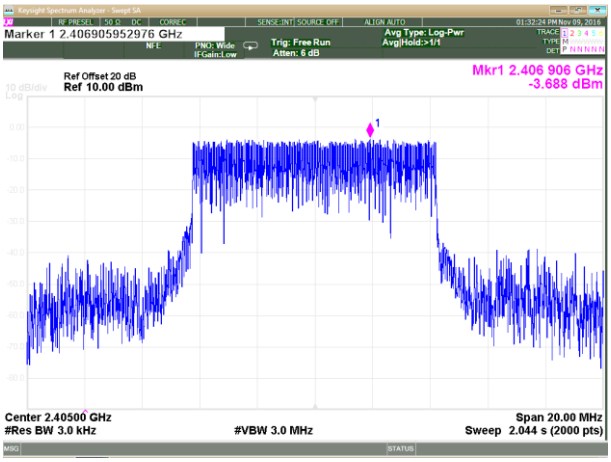


RF1

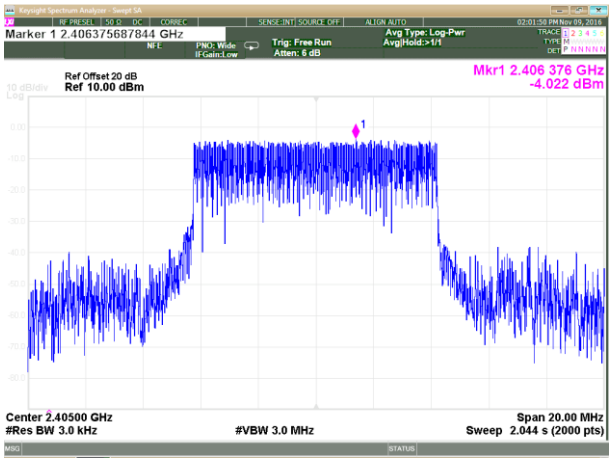


RF2

Plot 3.3.7 Maximum Power Spectral Density test results, Fc = 2405MHz, BW = 8.4 MHz, Bit Rate = 6.4 Mbps

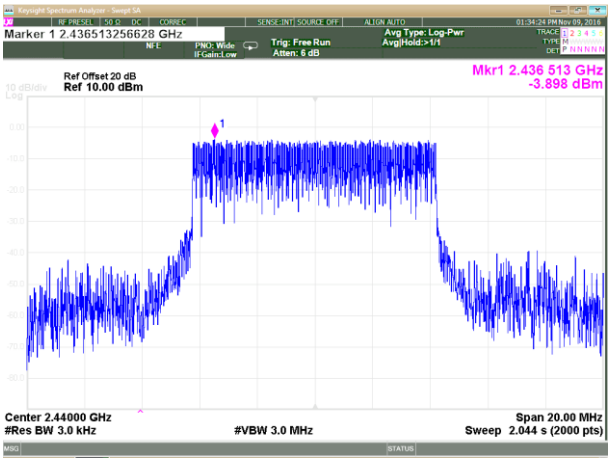


RF1

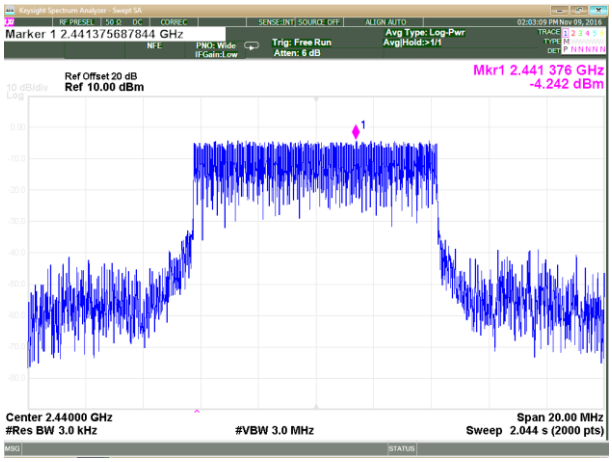


RF2

Plot 3.3.8 Maximum Power Spectral Density test results, Fc = 2440MHz, BW = 8.4 MHz, Bit Rate = 6.4 Mbps

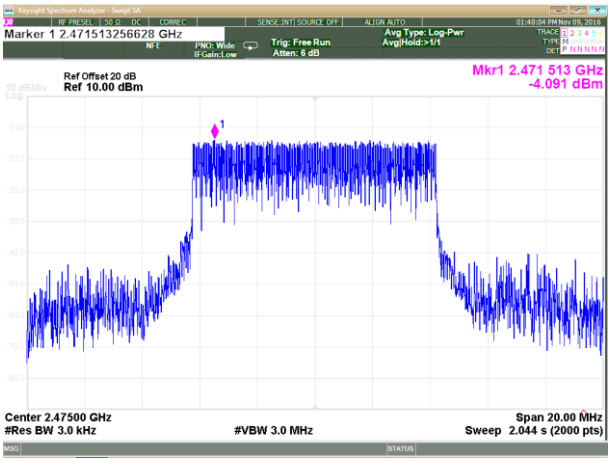


RF1

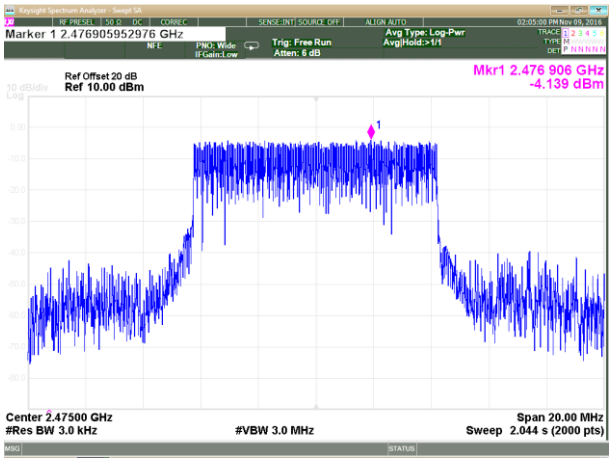


RF2

Plot 4.3.9 Maximum Power Spectral Density test results, Fc = 2475MHz, BW = 8.4 MHz, Bit Rate = 6.4 Mbps

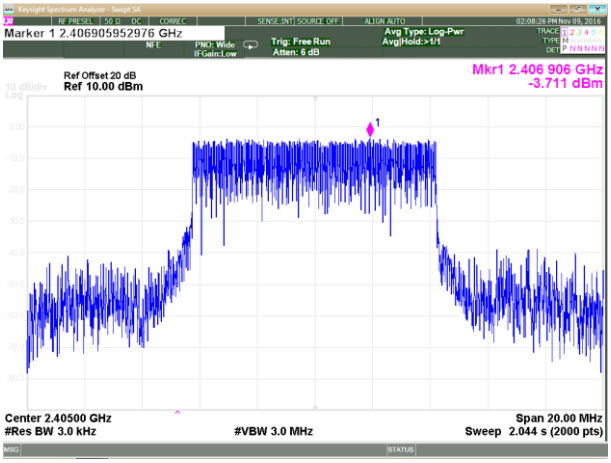


RF1

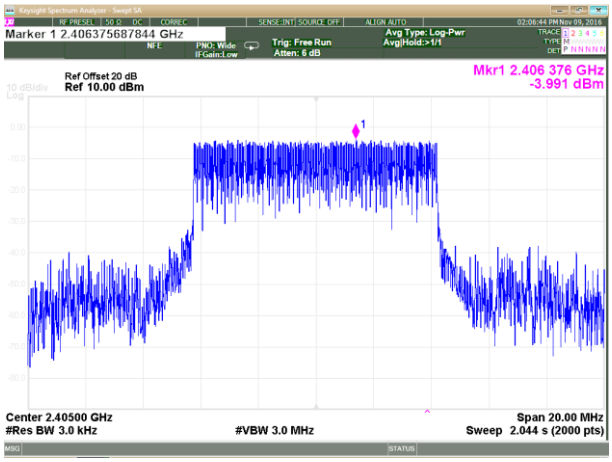


RF2

Plot 3.3.10 Maximum Power Spectral Density test results, Fc = 2405MHz, BW = 8.4 MHz, Bit Rate = 8 Mbps

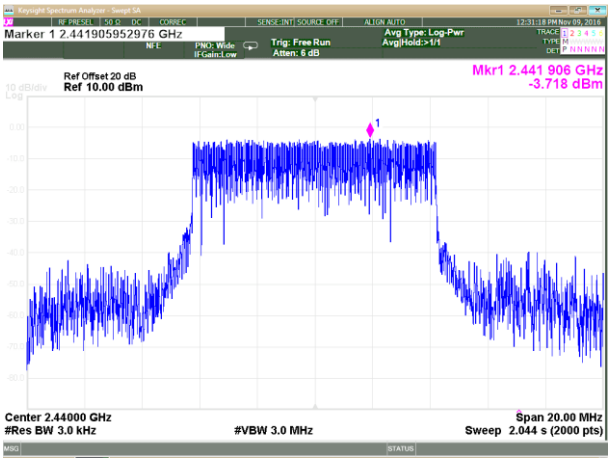


RF1

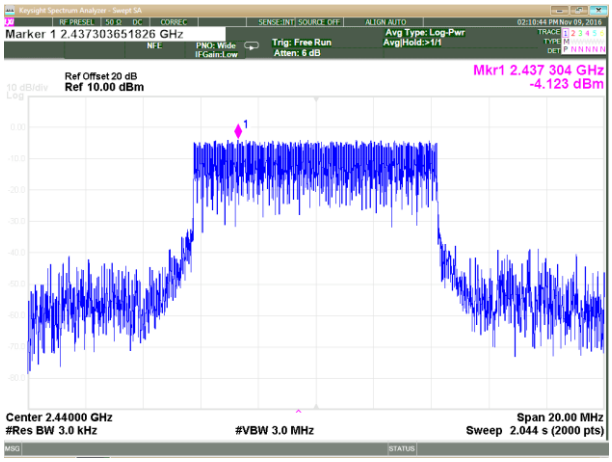


RF2

Plot 3.3.11 Maximum Power Spectral Density test results, Fc = 2440MHz, BW = 8.4 MHz, Bit Rate = 8 Mbps

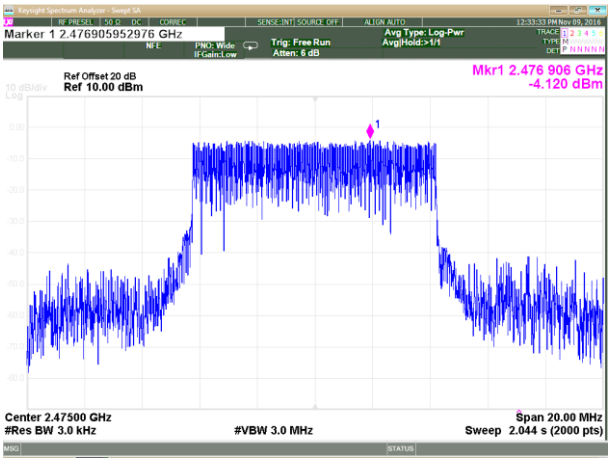


RF1

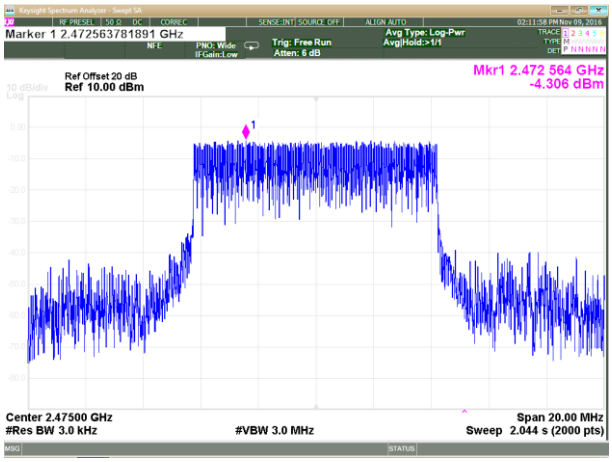


RF2

Plot 3.3.12 Maximum Power Spectral Density test results, Fc = 2475MHz, BW = 8.4 MHz, Bit Rate = 8 Mbps



RF1



RF2

3.4. Emissions in Non-Restricted Frequency Bands

Reference document:	**47 CFR §15.247 (d)**		
Test Requirements:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (See §15.205(c)).		
Test setup:	See sec 2.1	**Pass**	
Method of testing:	KDB 558074 D01 v03r05 Sec.11.1, a), Sec.11.2-11.3 Conducted		
Operating conditions:	Under normal test conditions		
S.A. Settings:	RBW: 100 kHz, VBW:3 MHz		
Environment conditions:	Ambient Temperature: 21°C	Relative Humidity: 48%	Atmospheric Pressure: 1011.4 hPa
Test Result:	See below	See Plot 3.4.1- Plot 3.4.18	

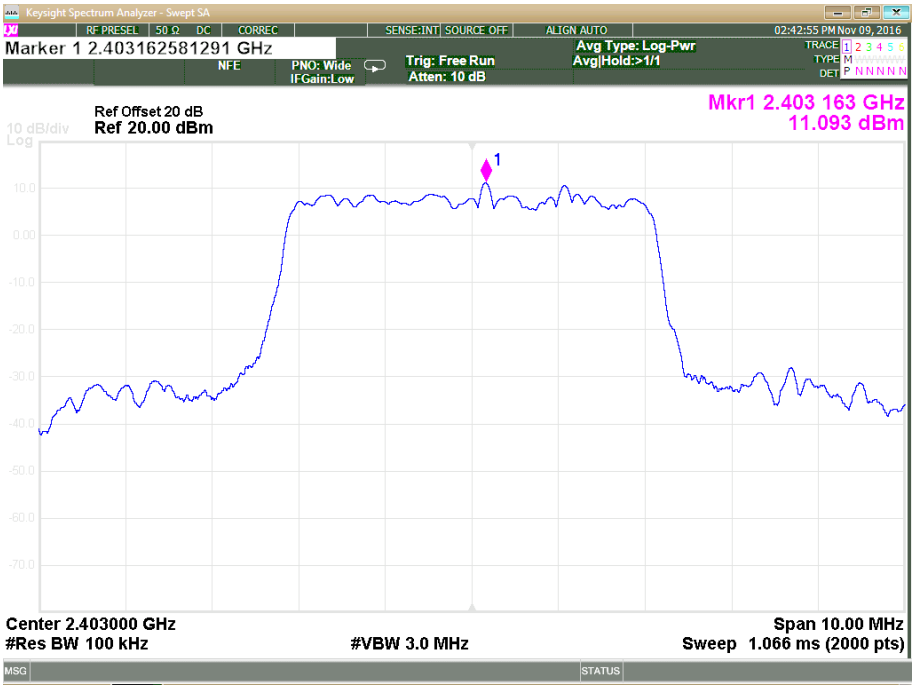
Test results:

Unwanted Emissions Measurements:

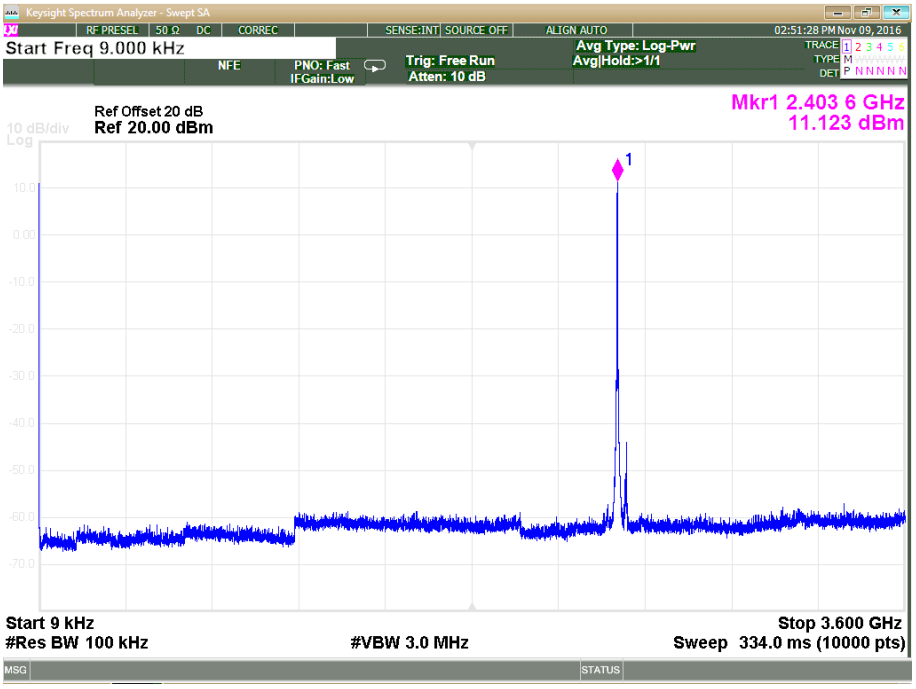
Fundamental Frequency, [MHz]	Fundamental Emission Reference Level, [dBm]	Unwanted Emissions Frequency, [MHz]	Unwanted Emissions Level, [dBm]	Correction factor for 2 outputs	Corrected Unwanted Emissions Level, [dBm]	Attenuation Below Fundamental [dB]	Minimum Attenuation Below Fundamental [dB]	Margin, [dB]	Pass/Fail
BW = 4.2 MHz, Bit Rate = 1.6 Mbps RF1 output(as a worst case in power test)									
2403	11.09	All emissions were at least 20 dB the limit					20.0	NA	Pass
2440	11.06	All emissions were at least 20 dB the limit					20.0	NA	Pass
2478	10.71	All emissions were at least 20 dB the limit					20.0	NA	Pass
BW = 8.4 MHz, Bit Rate = 8 Mbps RF1 output (as a worst case in power test)									
2405	6.73	All emissions were at least 20 dB the limit					20.0	NA	Pass
2440	6.71	All emissions were at least 20 dB the limit					20.0	NA	Pass
2475	6.50	All emissions were at least 20 dB the limit					20.0	NA	Pass

*Correction for N outputs = 10log(Nant), where Nant is the number of outputs

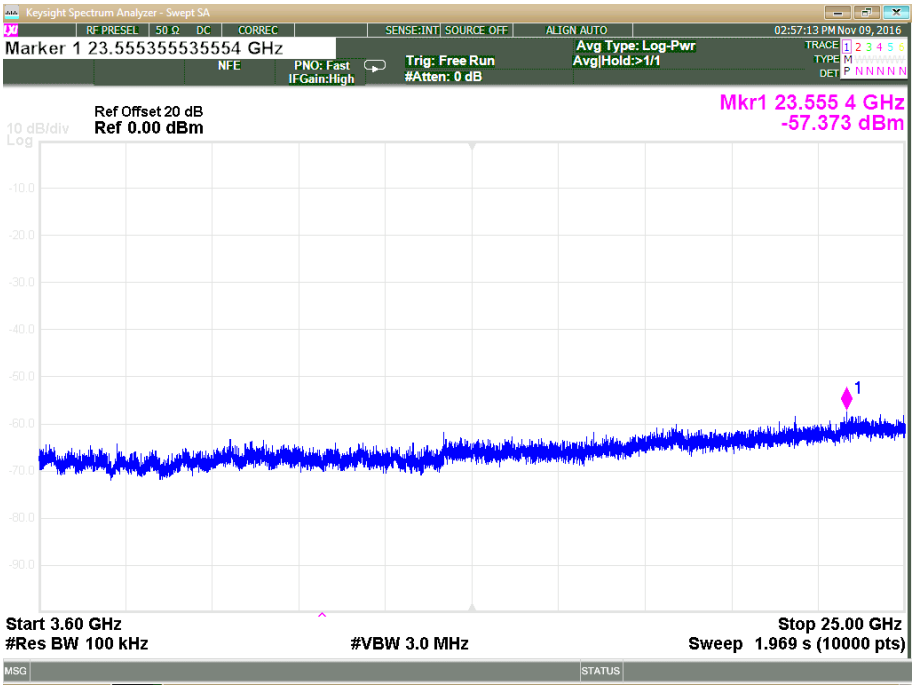
Plot 3.4.1 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results, Fundamental Emission Reference Level, Fc = 2403 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



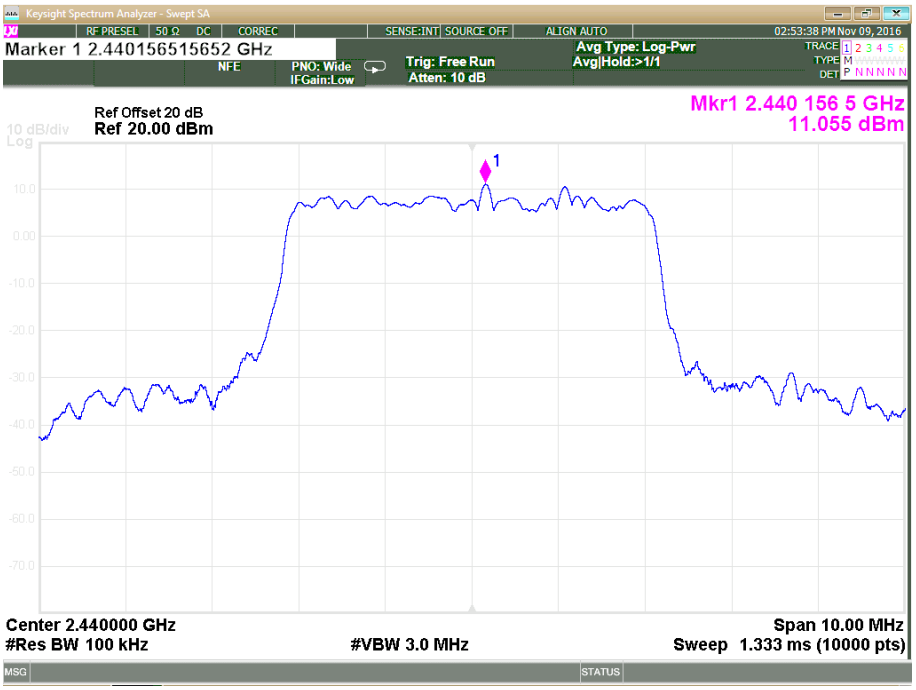
Plot 3.4.2 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in kHz – 3.6 GHz frequency range, Fc = 2403 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz **9**



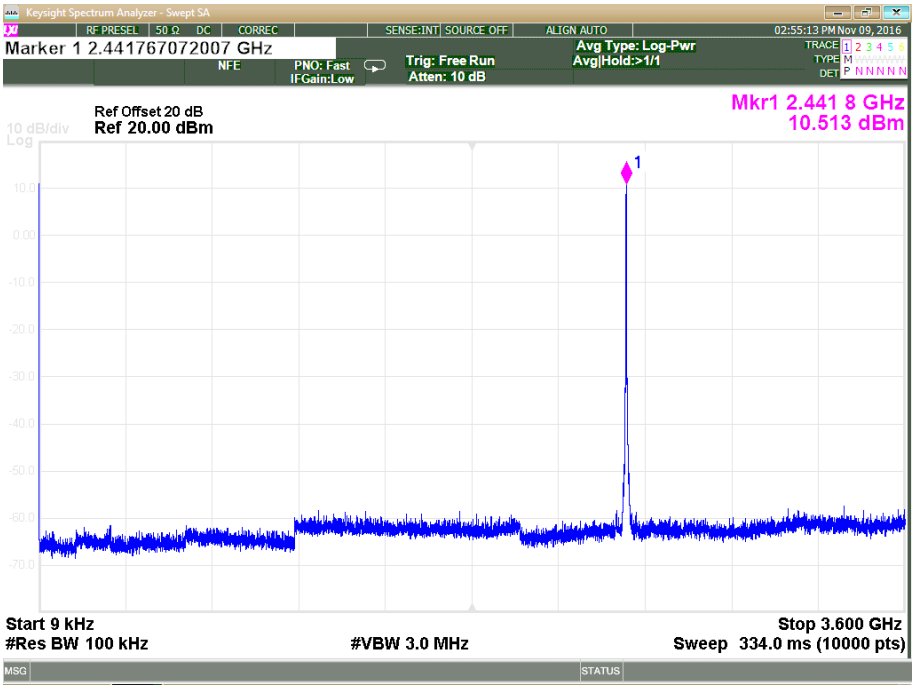
Plot 3.4.3 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 3.6 GHz – 25 GHz frequency range, Fc = 2403 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



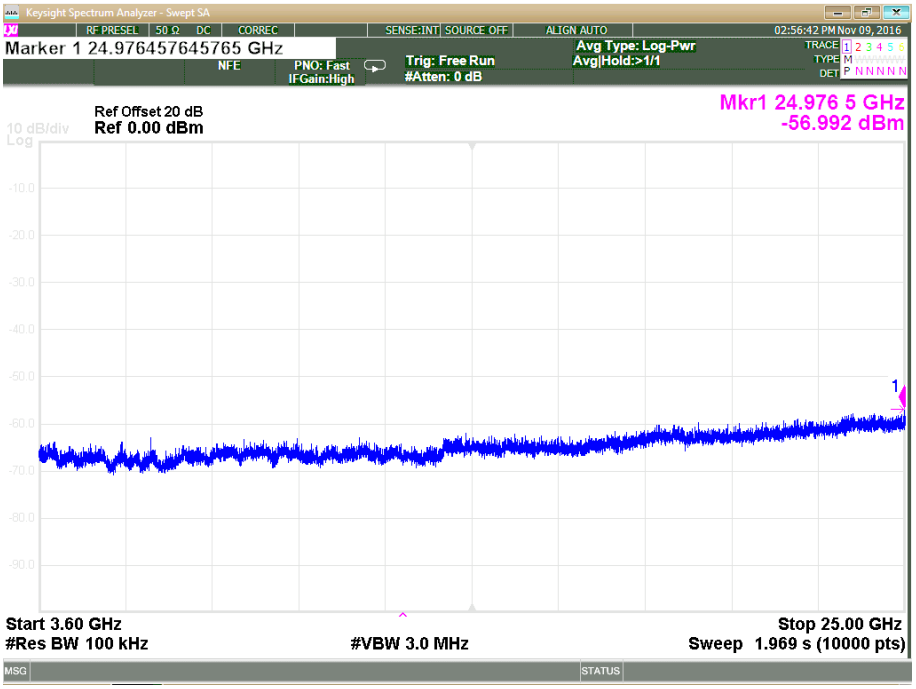
Plot 3.4.4 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results, Fundamental Emission Reference Level, Fc = 2440 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



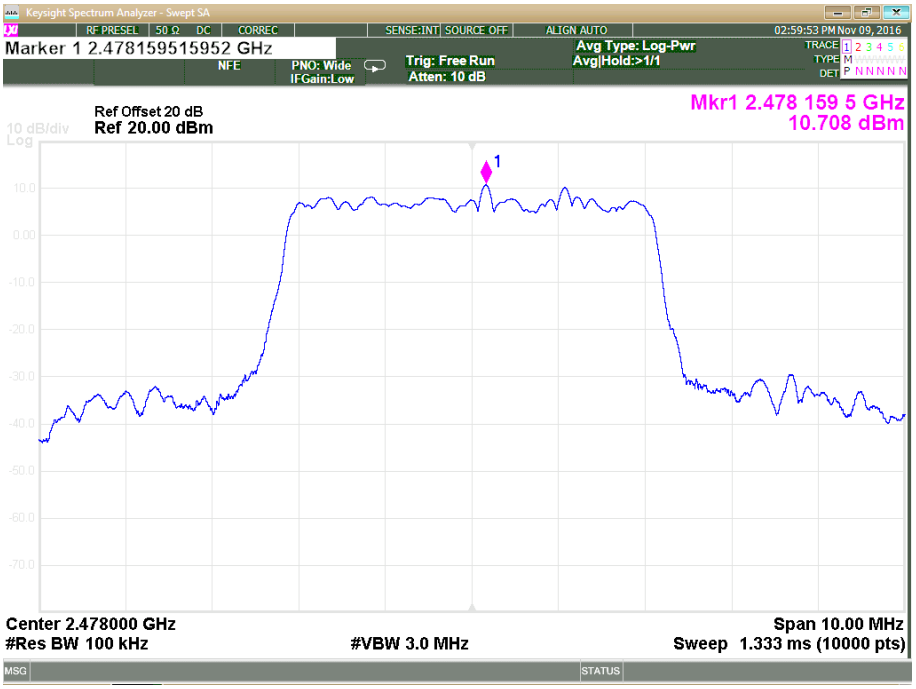
Plot 3.4.5 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 9 kHz – 3.6 GHz frequency range, Fc = 2440 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



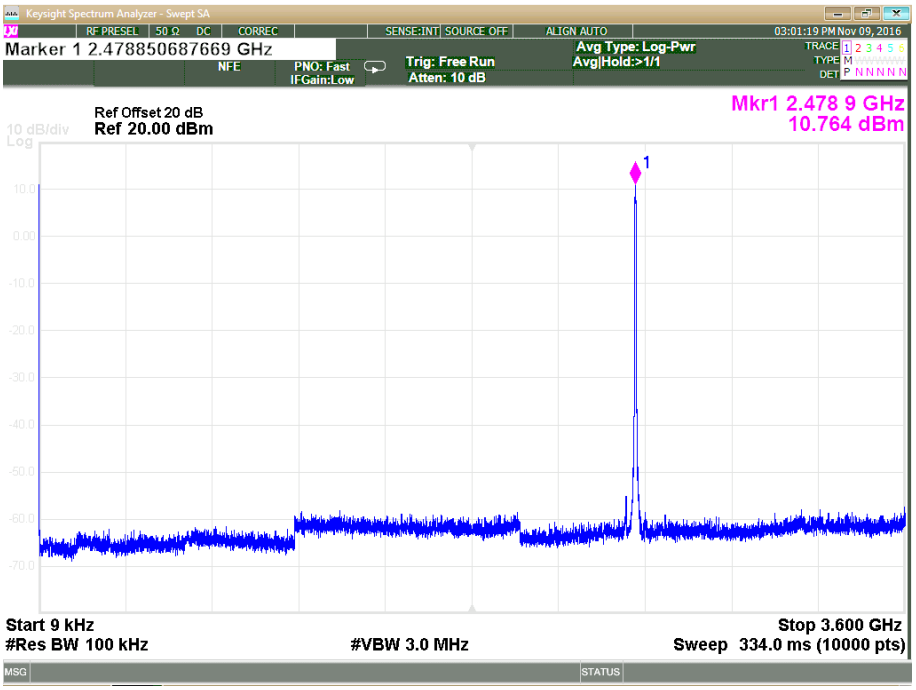
Plot 3.4.6 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 3.6 GHz – 25 GHz frequency range, Fc = 2440 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



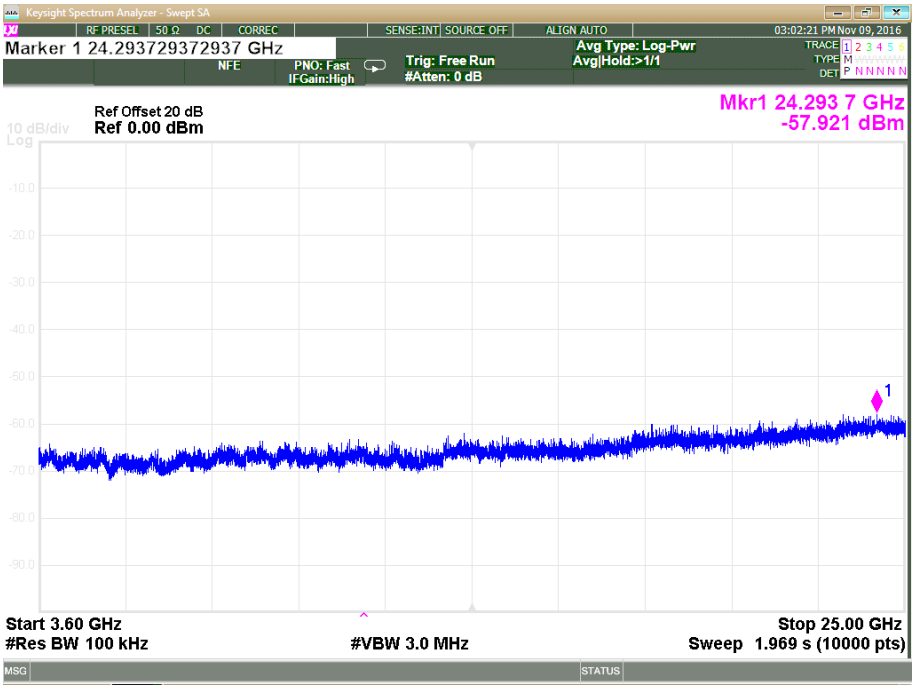
Plot 3.4.7 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results, Fundamental Emission Reference Level, Fc = 2478 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



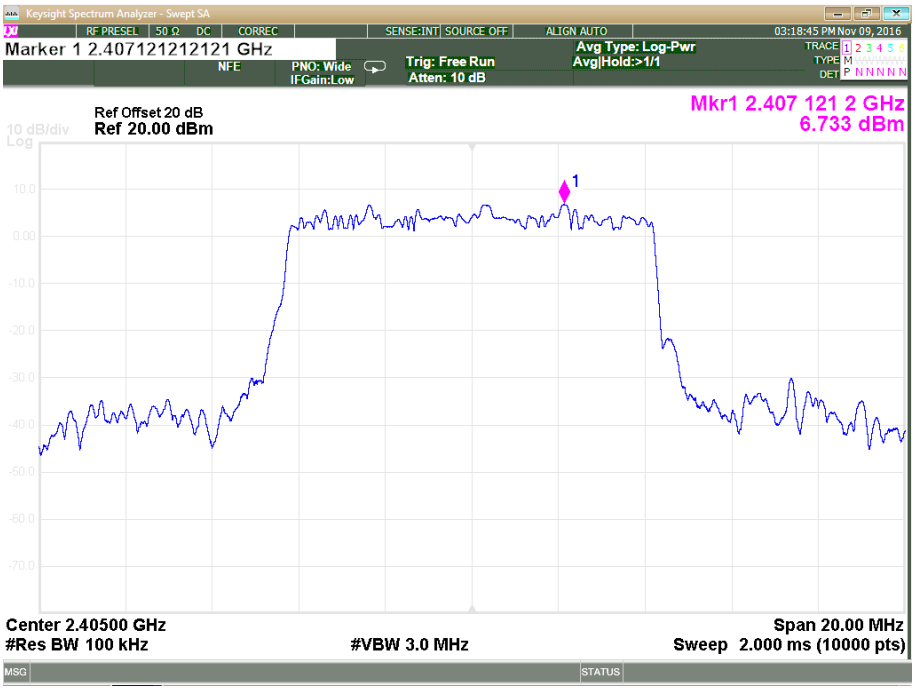
Plot 3.4.8 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 9 kHz – 3.6 GHz frequency range, Fc = 2478 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



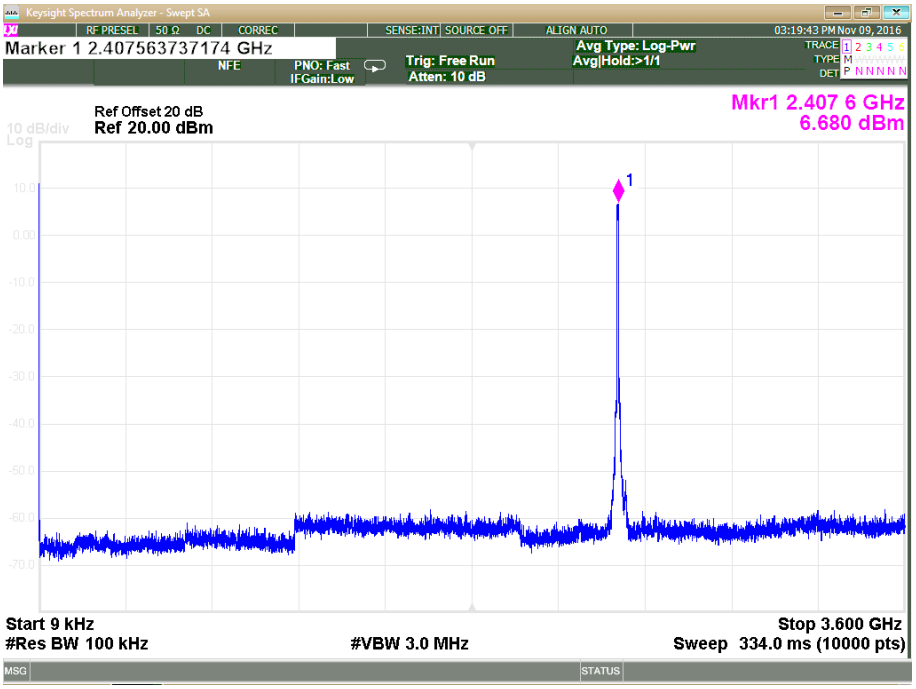
Plot 3.4.9 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 3.6 GHz – 25 GHz frequency range, Fc = 2478 MHz, BW = 4.2 MHz, Bit Rate = 1.6 MHz



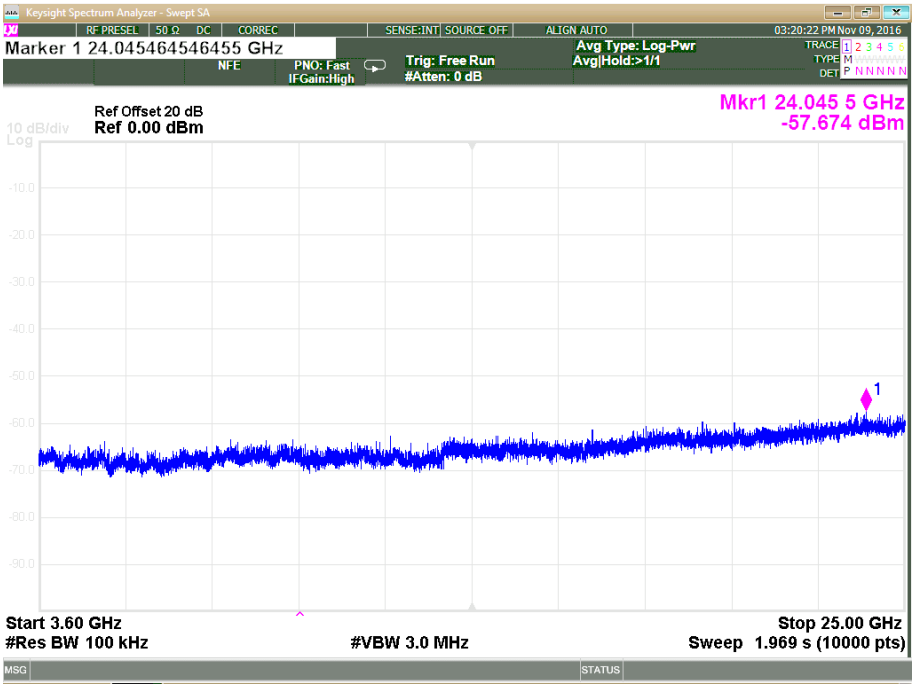
Plot 3.4.10 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results, Fundamental Emission Reference Level, Fc = 2405 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



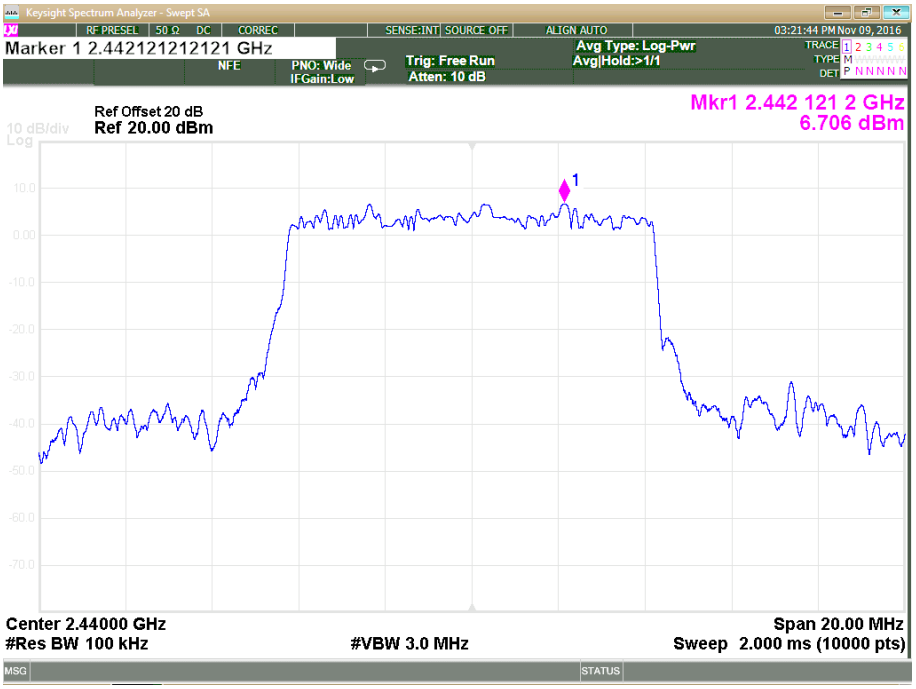
Plot 3.4.11 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 9 kHz – 3.6 GHz frequency range, Fc = 2405 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



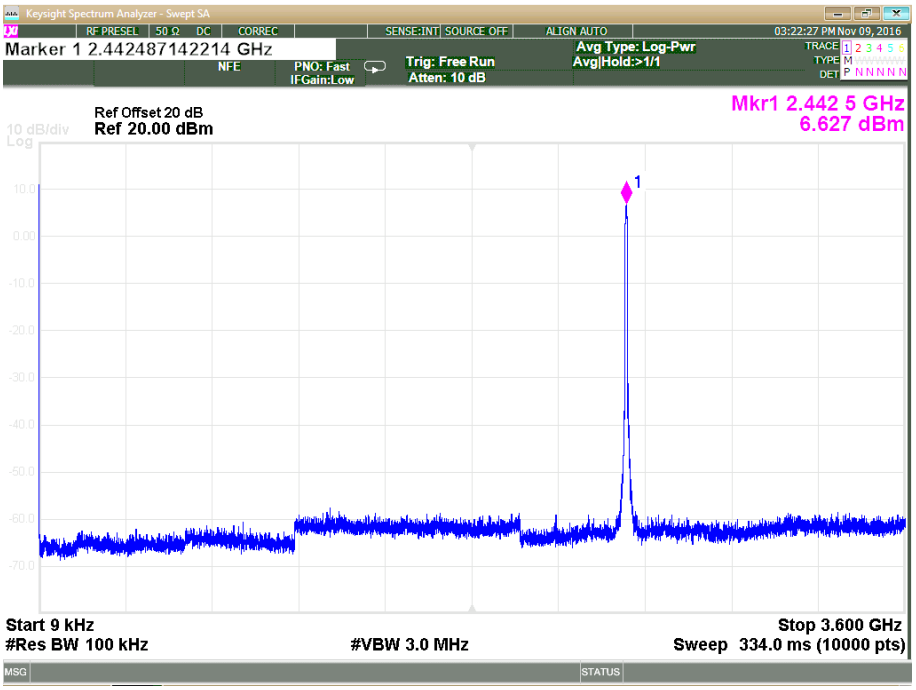
Plot 3.4.12 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 3.6 GHz – 25 GHz frequency range, Fc = 2405 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



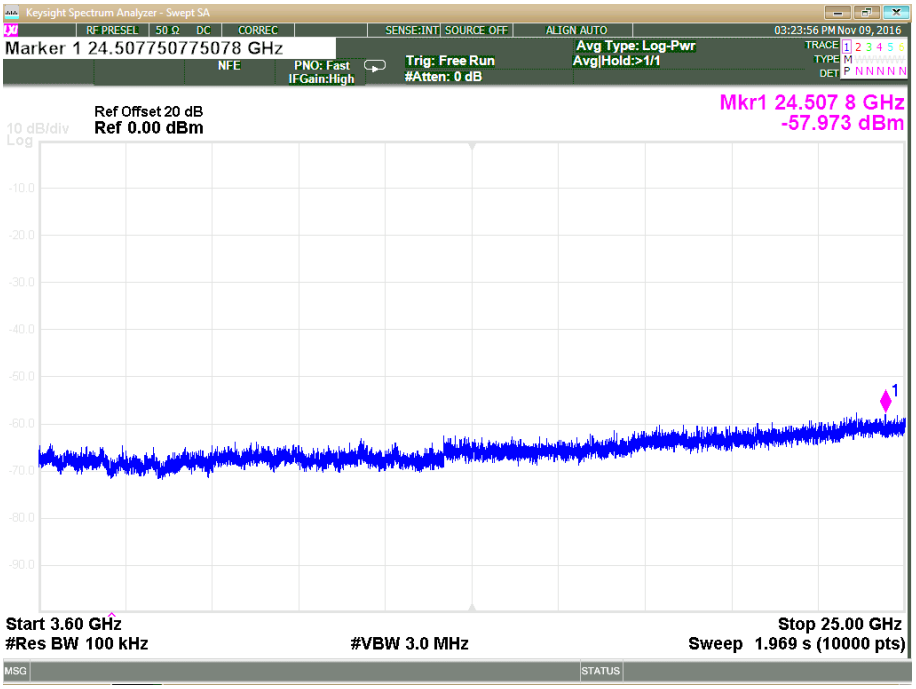
Plot 3.4.13 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results, Fundamental Emission Reference Level, Fc = 2440 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



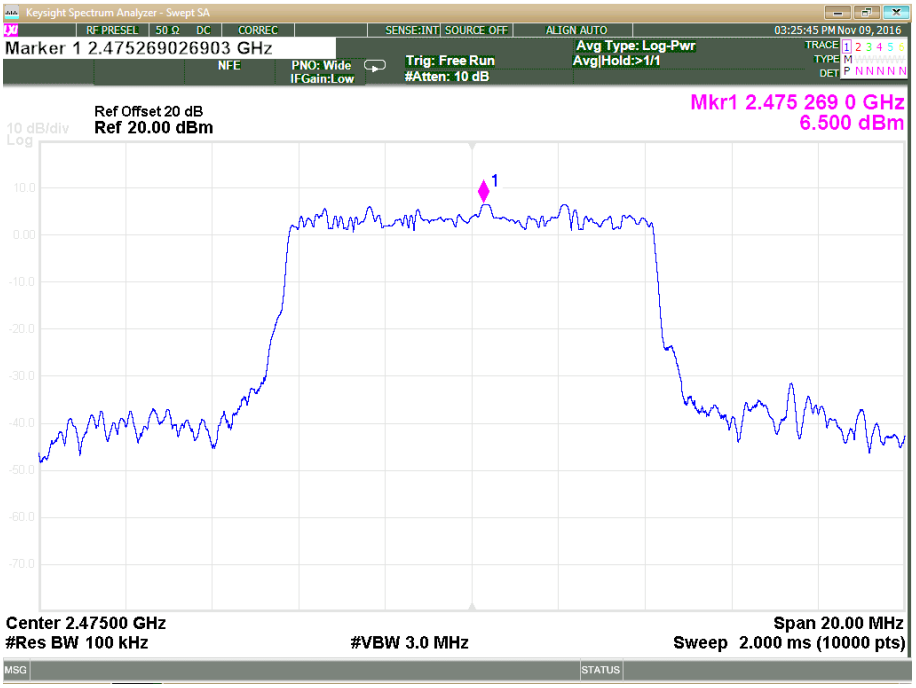
Plot 3.4.14 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 9 kHz – 3.6 GHz frequency range, Fc = 2440 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



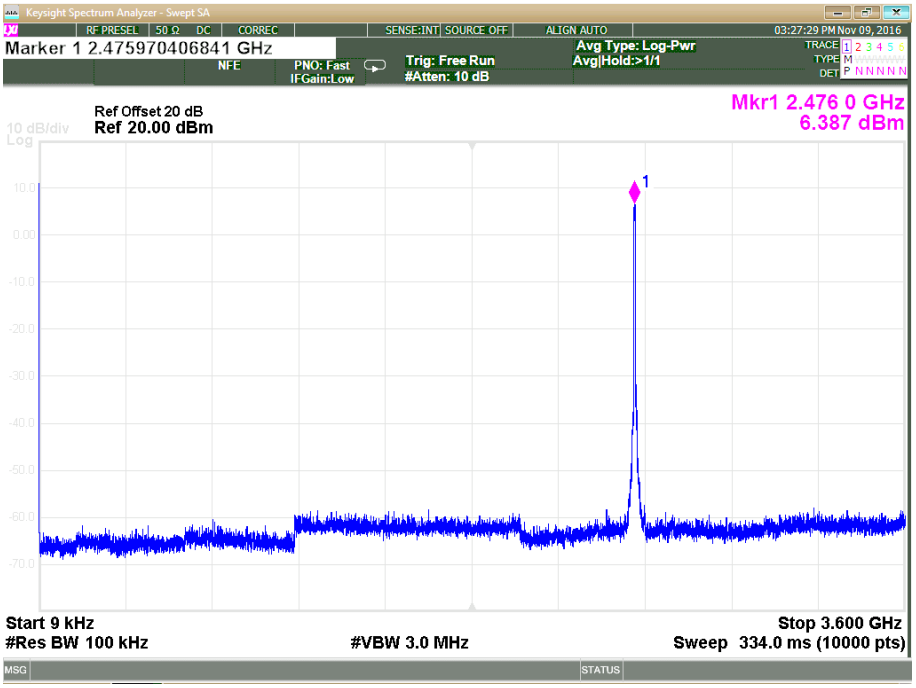
Plot 3.4.15 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 3.6 GHz – 25 GHz frequency range, Fc = 2440 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



Plot 3.4.16 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results, Fundamental Emission Reference Level, Fc = 2475 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



Plot 3.4.17 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 9 kHz – 3.6 GHz frequency range, Fc = 2475 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz



Plot 3.4.18 Unwanted Conducted Emissions into Non-Restricted Frequency Bands test results in 3.6 GHz – 25 GHz frequency range, Fc = 2475 MHz, BW = 8.4 MHz, Bit Rate = 8 MHz