

Test Report

Product	Digital Wireless Audio Receiver
Name and address of the applicant	RØDE Microphones 107 Carnarvon Street 2128 Silverwater, Australia
Name and address of the manufacturer	RØDE Microphones 107 Carnarvon Street 2128 Silverwater, Australia
Model	RØDELink RX-DT
Rating	Mains Adaptor (Input 100-240V 50/60Hz 0.6A, Output 15V DC, 1000mA)
Trademark	RØDELink
Serial number	0002 and 0003
Additional information	Digital Wireless Receiver with Audio Output
Tested according to	FCC Part 15.247 Frequency Hopping Transmitters / Digital Transmission Systems Industry Canada RSS-247, Issue 2 Low Power Licence-Exempt Radiocommunications Devices
Order number	326237
Tested in period	2017.04.03 to 2017.04.24
Issue date	2017.06.28
Name and address of the testing laboratory	 FCC No: 994405 IC OATS: 2040D-1 Instituttveien 6 Kjeller, Norway TEL: +47 22 96 03 30 FAX: +47 22 96 05 50
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Prepared by [Frode Sveinsen] </div> <div style="text-align: center;">  Approved by [G. Suhanthakumar] </div> </div>	
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1 INFORMATION

1.1 Test Item

Name :	RØDE Microphones
FCC ID :	2AEAN404001
Industry Canada ID :	20091-404001
Model/version :	RØDELink RX-DT
Serial number :	Radiated sample: 0002 Conducted sample: 0003
Hardware identity and/or version:	V0002 rB
Software identity and/or version :	V0003
Frequency Range :	2403 – 2481 MHz
Number of Channels :	39
Operating Modes :	USB HID (no RF) Audio (RF On)
Type of Modulation :	Digital (GFSK)
Rated Output Power :	0.0109 W (Conducted)
Type of Power Supply :	AC Adaptor Model: ICP18-150-1000
Antenna Connector :	Reverse SMA
Number of Antennas :	2
Antenna Diversity Supported :	Yes
Interfaces :	Audio Jack, XLR

Description of Test Item

The EUT is a Digital Wireless Audio Receiver with XLR and Audio Jack outputs. The equipment uses adaptive dynamic frequency selection.

1.2 Normal test condition

Temperature: 20 - 24 °C
Relative humidity: 20 - 50 %
Normal test voltage: 120 V AC

The values are the limit registered during the test period.

1.3 Test Engineer(s)

Frode Sveinsen

1.4 Description of modification for Modification Filing

Not applicable.

1.5 Family List Rational

Not Applicable.

1.6 Antenna Requirement

Is the antenna detachable?

☒ Yes ☐ No

If detachable, is the antenna connector non-standard?

☐ Yes ☐ No

Type of antenna connector: Reverse SMA

Ref. FCC §15.203

1.7 Comments

The measurements were done with the EUT powered by 120 V AC. It was checked that power variations between 85% and 115% did not have any influence on the measurements.

2 TEST REPORT SUMMARY

2.1 General

All measurements are traceable to national standards.

The tests were conducted for demonstrating compliance with FCC CFR 47 Part 15, paragraph 15.247 and ISSED RSS-247 Issue 2.

Tests were performed in accordance with ANSI C63.4-2014 and ANSI C63.10-2013.

Radiated tests were made in a semi-anechoic chamber at measuring distances of 1m and 3m.

A description of the test facility is on file with the FCC and ISSED.

☒ New Submission

☒ Production Unit

☐ Class II Permissive Change

☐ Pre-production Unit

DTS Equipment Code

☐ Family Listing



THIS TEST REPORT APPLIES ONLY TO THE ITEM(S) AND CONFIGURATIONS TESTED.

Deviations from, additions to, or exclusions from the test specifications are described in "Summary of Test Data".

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2.2 Test Summary

Name of test	FCC Part 15 reference	RSS-247 Issue 2, RSS-GEN Issue 4 reference	Result
Supply Voltage Variations	15.31(e)	6.11 (RSS-GEN)	Complies
Antenna Requirement	15.203	8.3 (RSS-GEN)	Complies
Power Line Conducted Emission	15.107(a) 15.207(a)	8.8 (RSS-GEN)	Complies
Occupied Bandwidth	N/A	6.6 (RSS-GEN)	Complies
Minimum 6 dB Bandwidth	15.247(a)(2)	5.2 (1) (RSS-247)	Complies
Peak Power Output	15.247(b)	5.4 (RSS-247)	Complies
Power Spectral Density	15.247(d)	5.2 (2) (RSS-247)	Complies
Spurious Emissions (Antenna Conducted)	15.247(c)	5.5 (RSS-247)	Complies
Spurious Emissions (Radiated)	15.247(c) 15.109(a) 15.209(a)	5.5 (RSS-247) 6.13 (RSS-GEN) 8.9 (RSS-GEN)	Complies

3 TEST RESULTS

3.1 Power Line Conducted Emissions

FCC Part 15.207 (a)

ISED RSS-GEN Issue 4, Clause 8.8

Test Performed By: Thanh Tran

Date of Test: 24-April-2017

Measurement procedure: ANSI C63.4-2014 using 50 μ H/50 ohms LISN.

Test Results: Complies.

Measurement Data: See attached graph, (Peak detector).

Highest measured value (L1 and N):

All emissions are below the limits in FCC 15.207

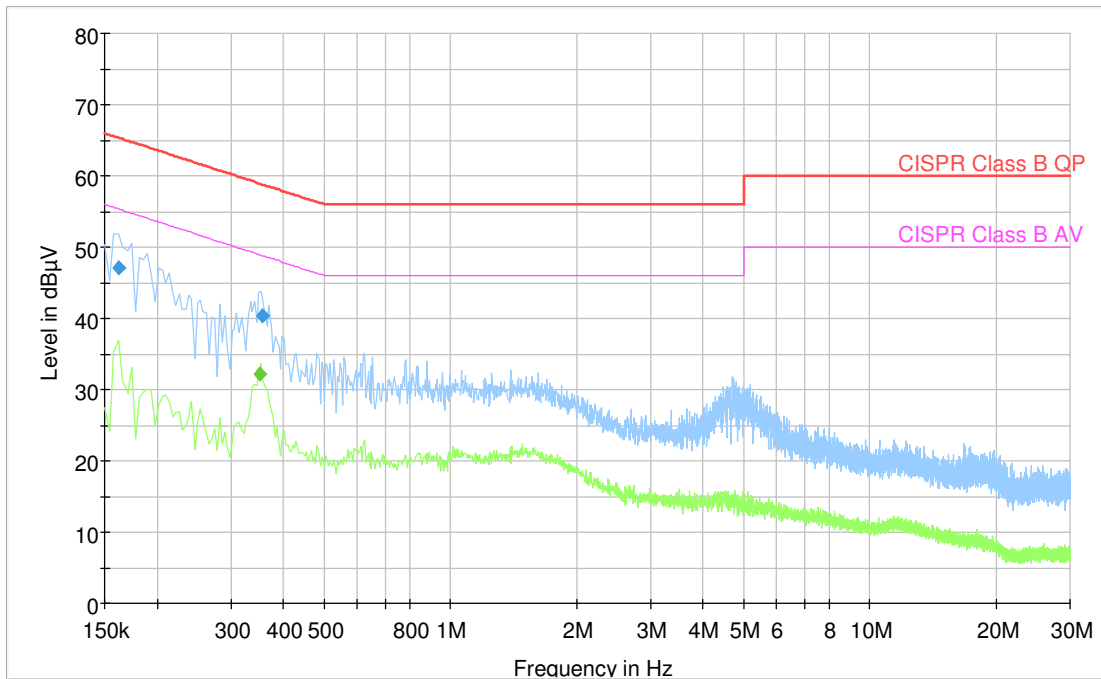
Active Link, 120V 60Hz:

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.162	47.18	---	65.36	18.18	1000	9	L1	GND	10.1
0.352	---	32.10	48.92	16.81	1000	9	N	GND	10.1
0.356	40.40	---	58.82	18.42	1000	9	L1	GND	10.1

Standby, No Link, 120V 60Hz:

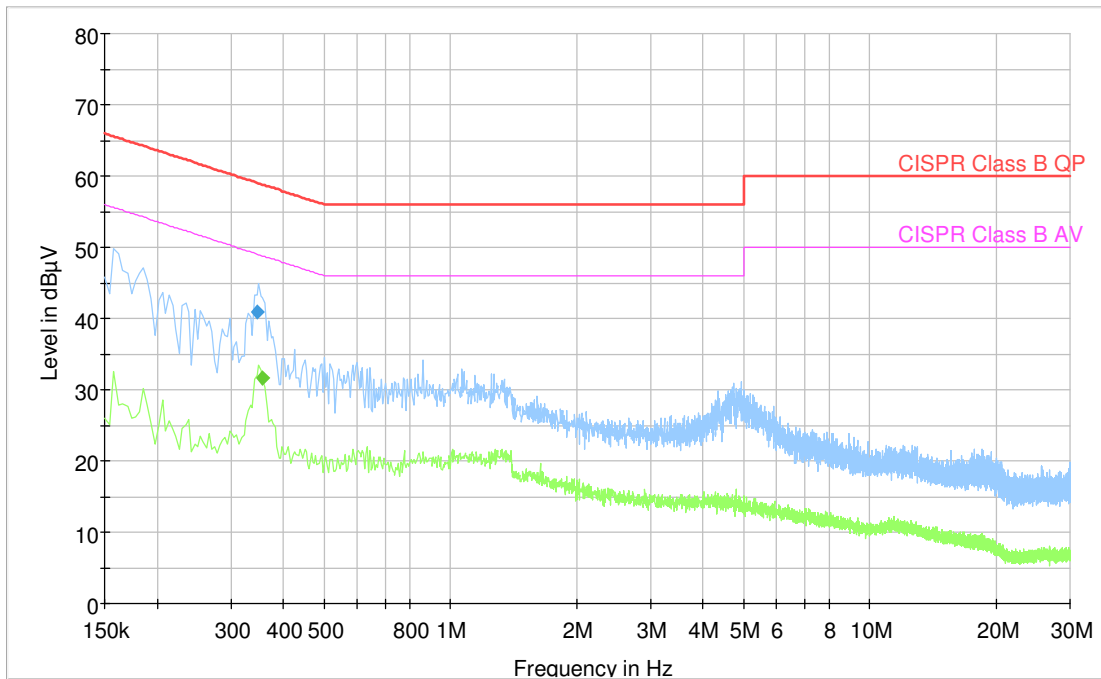
Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.348	40.86	---	59.01	18.15	1000	9	L1	GND	10.1
0.356	---	31.65	48.82	17.17	1000	9	L1	GND	10.1

Full Spectrum



Active Link, 120V 60Hz

Full Spectrum



Standby, No Link, 120V 60Hz

3.2 Occupied Bandwidth

FCC Part 15.247 (a)(1)(iii)

Test Results: Complies

Measurement Data: 39 RF channels in use

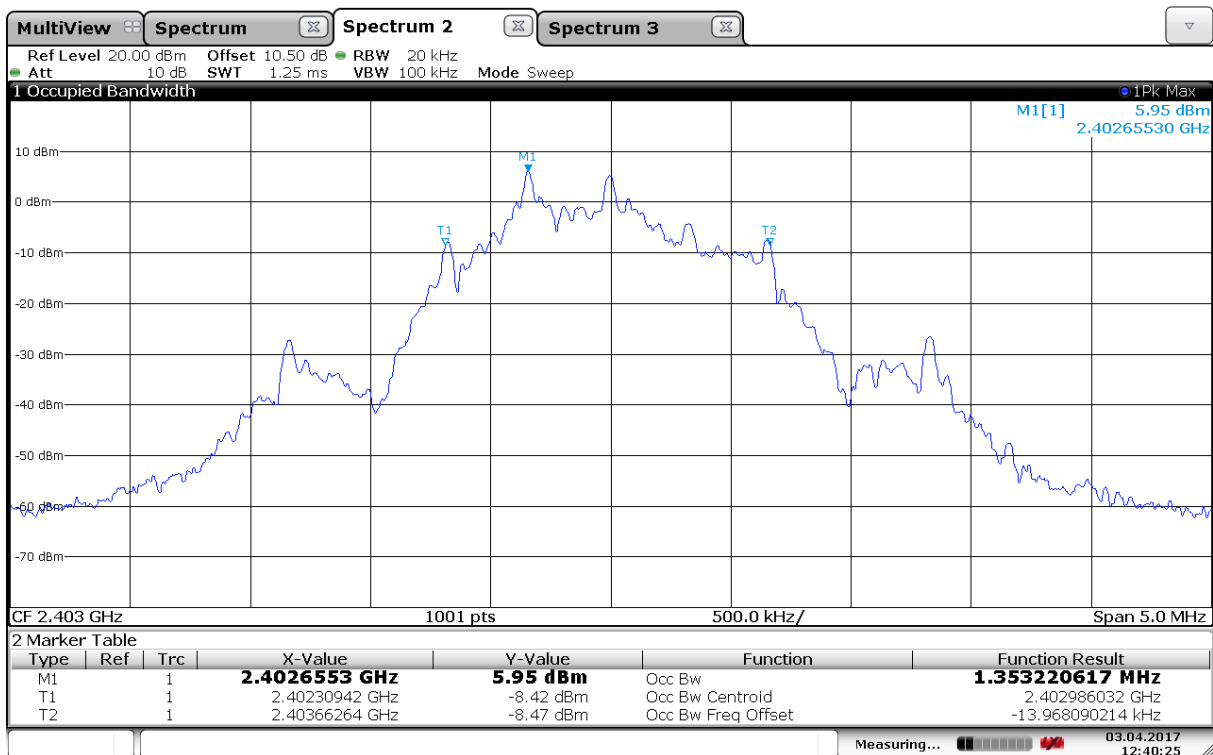
Carrier Frequency	Occupied Bandwidth (99%) (MHz)
2403 MHz	1.35
2441 MHz	1.36
2481 MHz	1.35

Occupied Bandwidth is reported for information only.

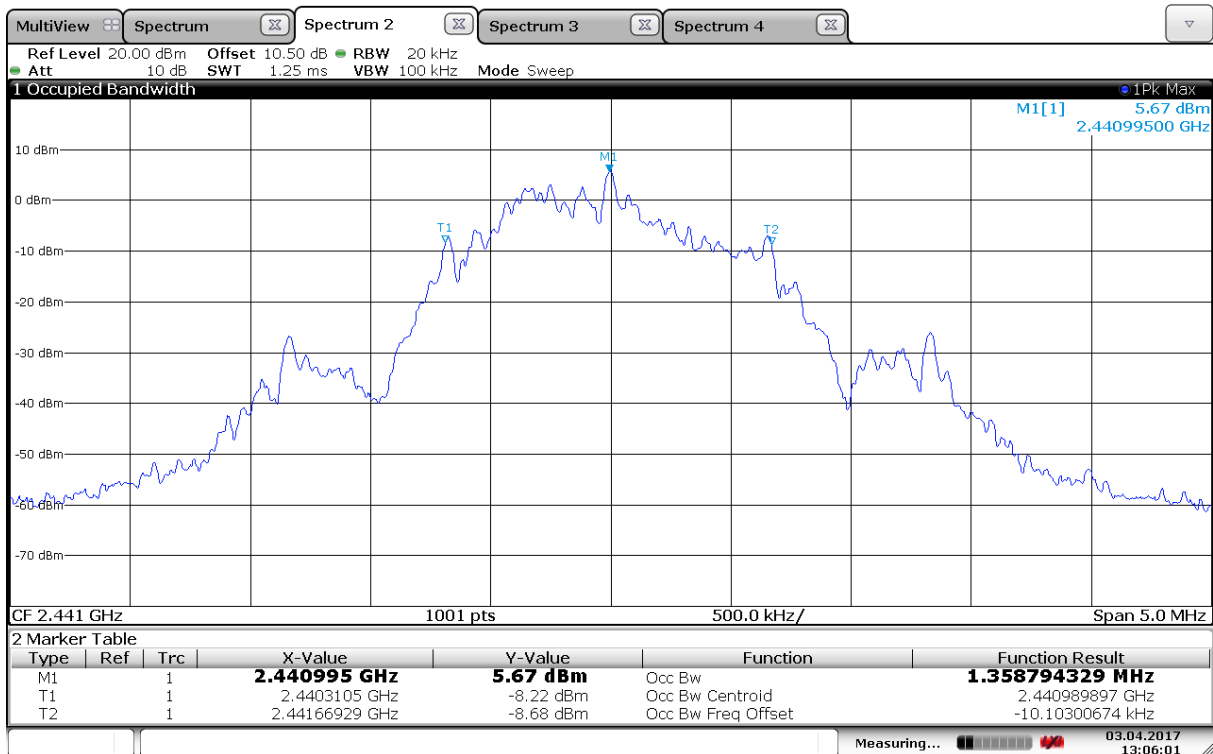
See attached plots.

Requirements:

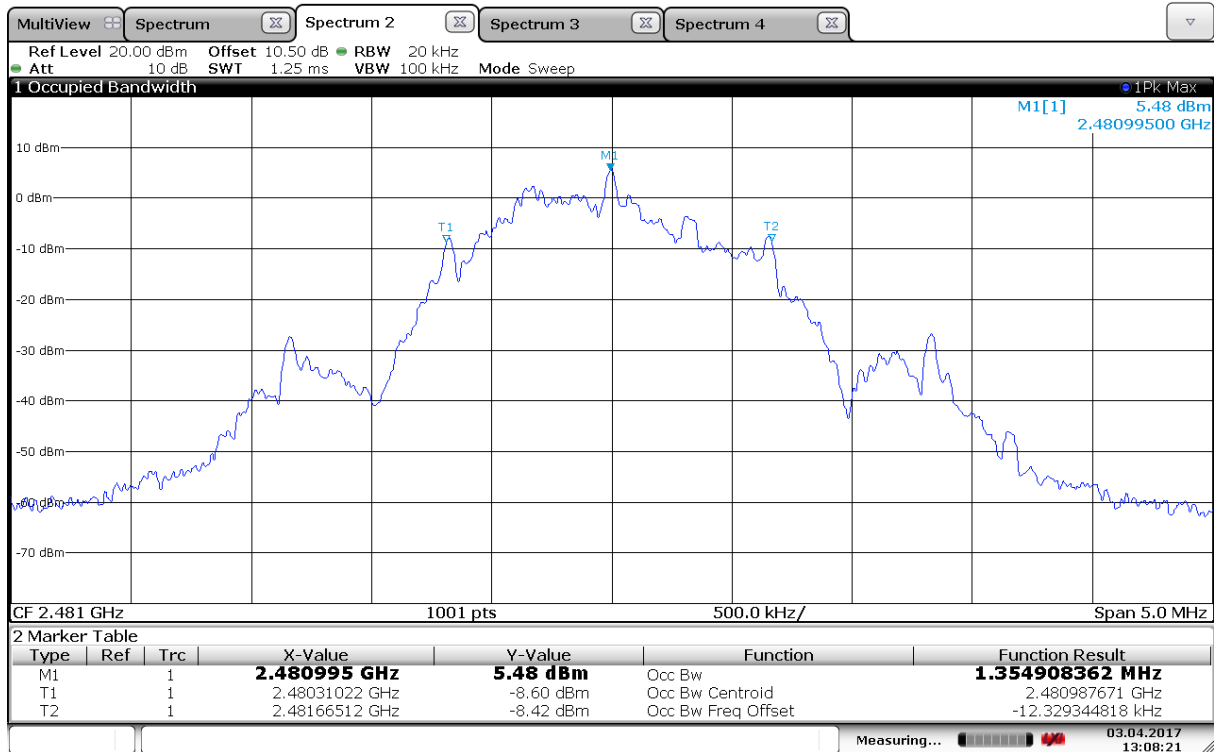
No requirements for Digital Transmission Systems.



99% Bandwidth, 2403 MHz



99% Bandwidth, 2441 MHz



99% Bandwidth, 2481 MHz

3.3 Minimum 6 dB Bandwidth

FCC Part 15.247 (a)(2)

Test Results: Complies

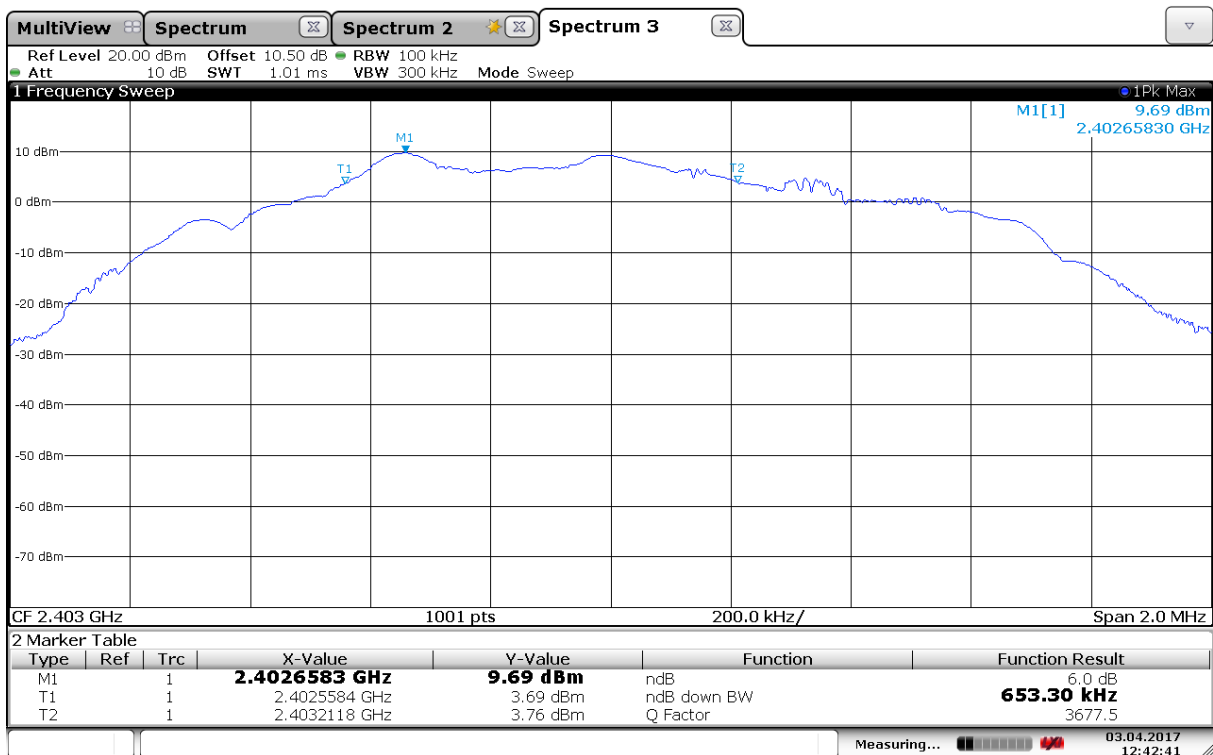
Measurement Data:

Carrier Frequency	Measured 6 dB Bandwidth (kHz)
2403 MHz	653
2441 MHz	673
2481 MHz	639

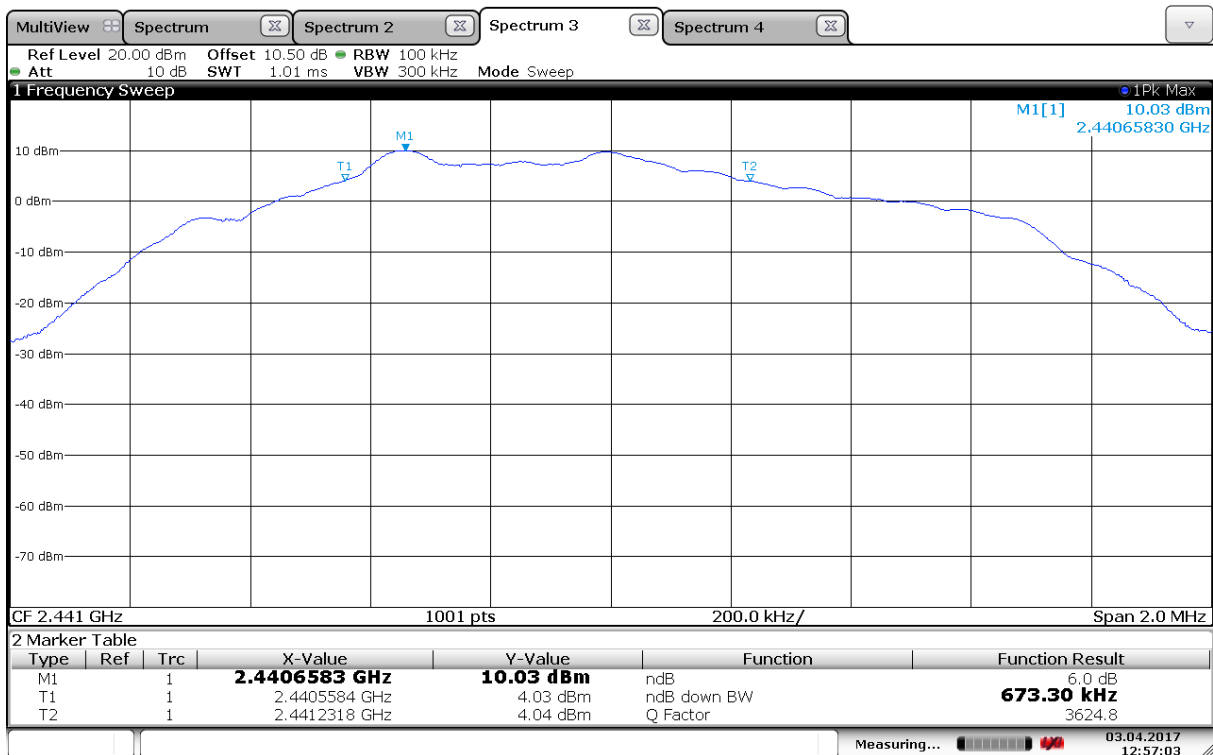
Power supply variation within 85 % to 115% of nominal value has no influence on measured value.

Requirements:

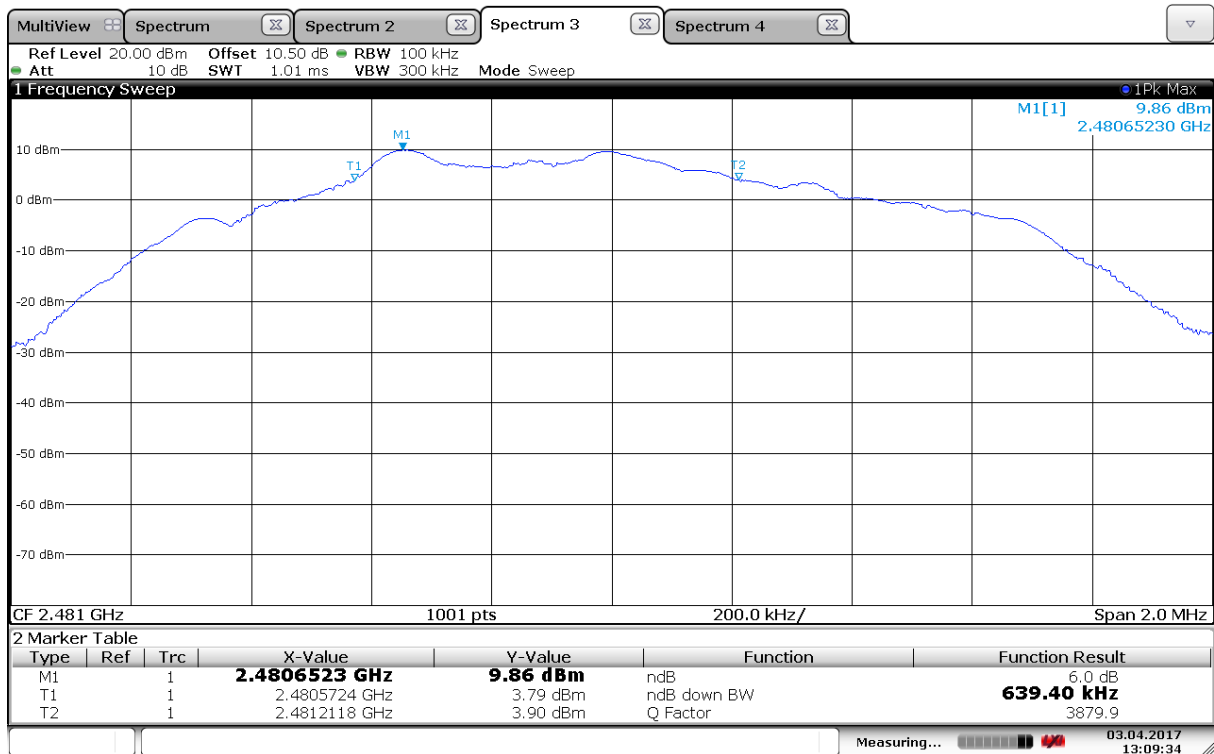
For Digital Transmission Systems in the 2400-2483.5 MHz band the minimum 6 dB bandwidth shall be at least 500 KHz.



Minimum 6 dB Bandwidth, 2403 MHz



Minimum 6 dB Bandwidth, 2441 MHz



Minimum 6 dB Bandwidth, 2481 MHz

3.4 Peak Power Output

FCC Part 15.247 (b)

Test Results: Complies

Measurement Data:

Carrier Frequency	2403 MHz	2441 MHz	2481 MHz
Conducted Power (dBm)	10.1	10.4	10.2
Conducted Power (mW)	10.2	10.9	10.5
Field Strength (dBμV/m)	103.1	105.5	104.3
EIRP, Calculated (mW)	6.1	10.6	8.1
Antenna gain (dBi)	-2.2	-0.1	-1.1

Antenna gain = $10 \cdot \log(\text{EIRP} / \text{Conducted power})$ dBi

EIRP is calculated from measured field strength by the formulas in KDB 412172 D01 Determining ERP and EIRP v01r01.

Power supply variation within 85 % to 115% of nominal value has no influence on measured value.

Radiated Power was measured on both antennas to find the maximum value. Only the maximum value is reported.

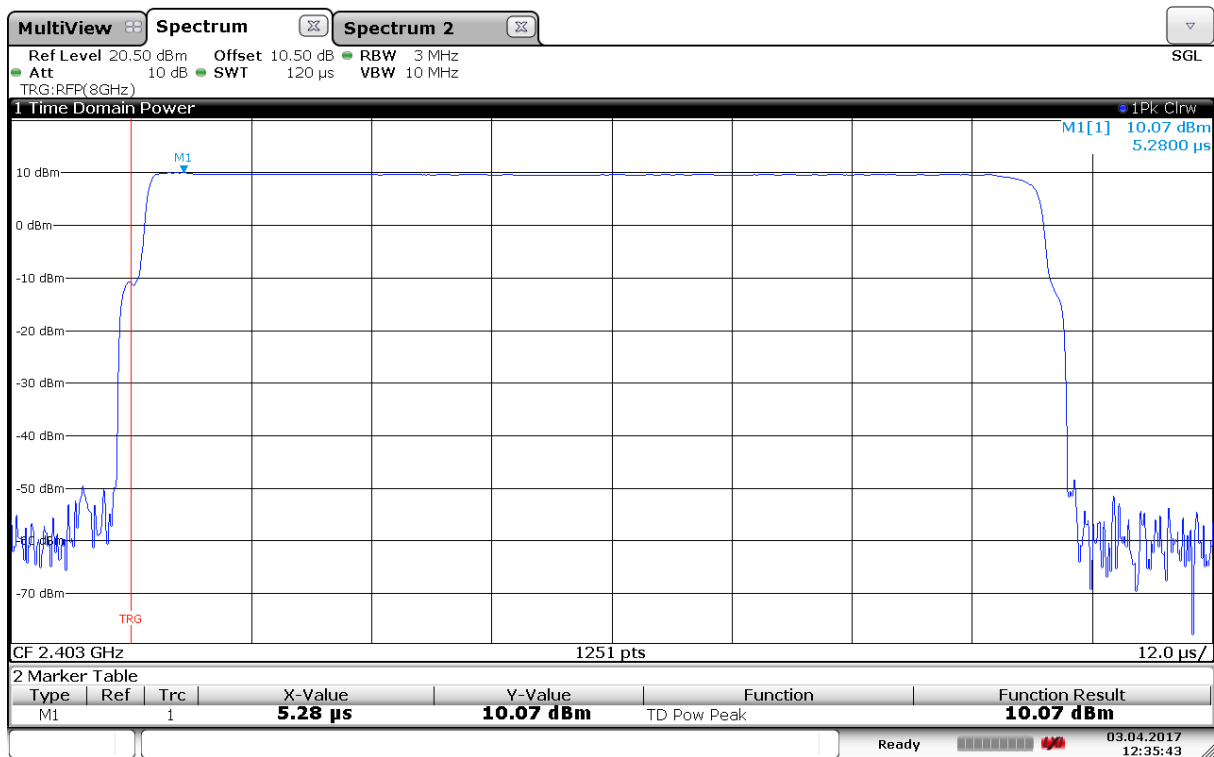
See attached plots.

Requirements:

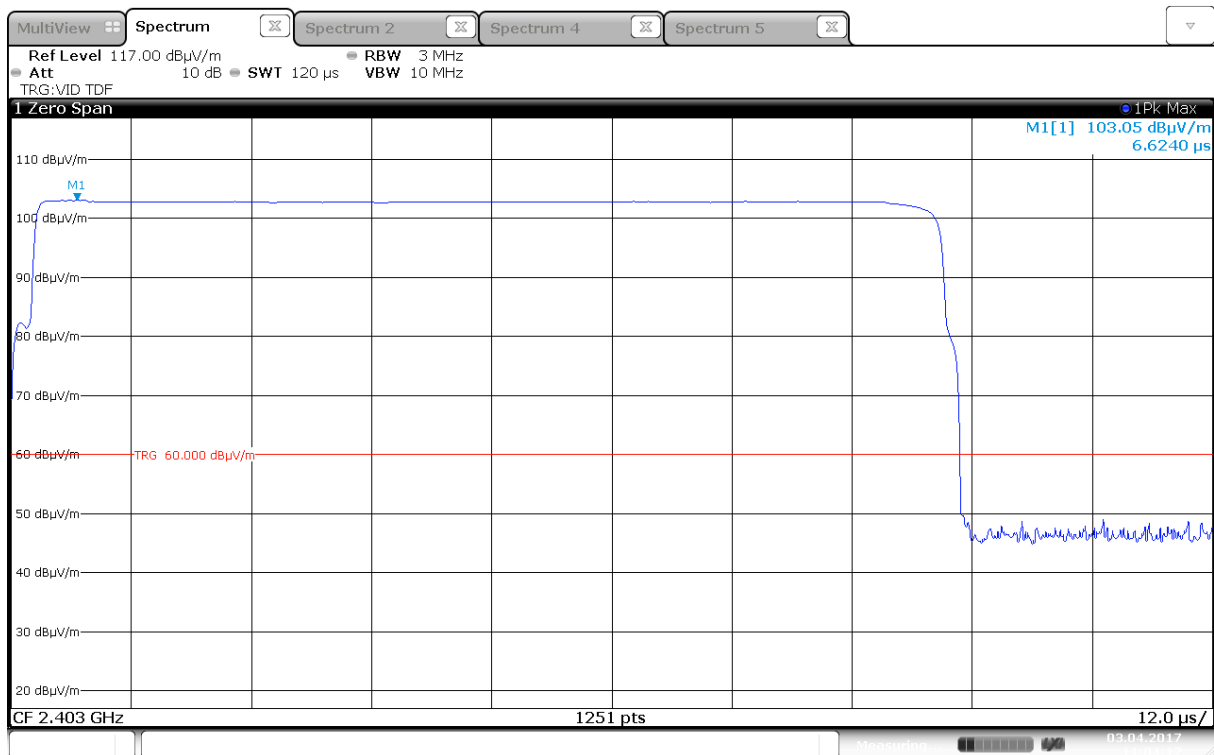
The maximum peak output power shall not exceed the following limits:

For Digital Transmission Systems in the 2400 - 2483.5 MHz band: 1 Watt

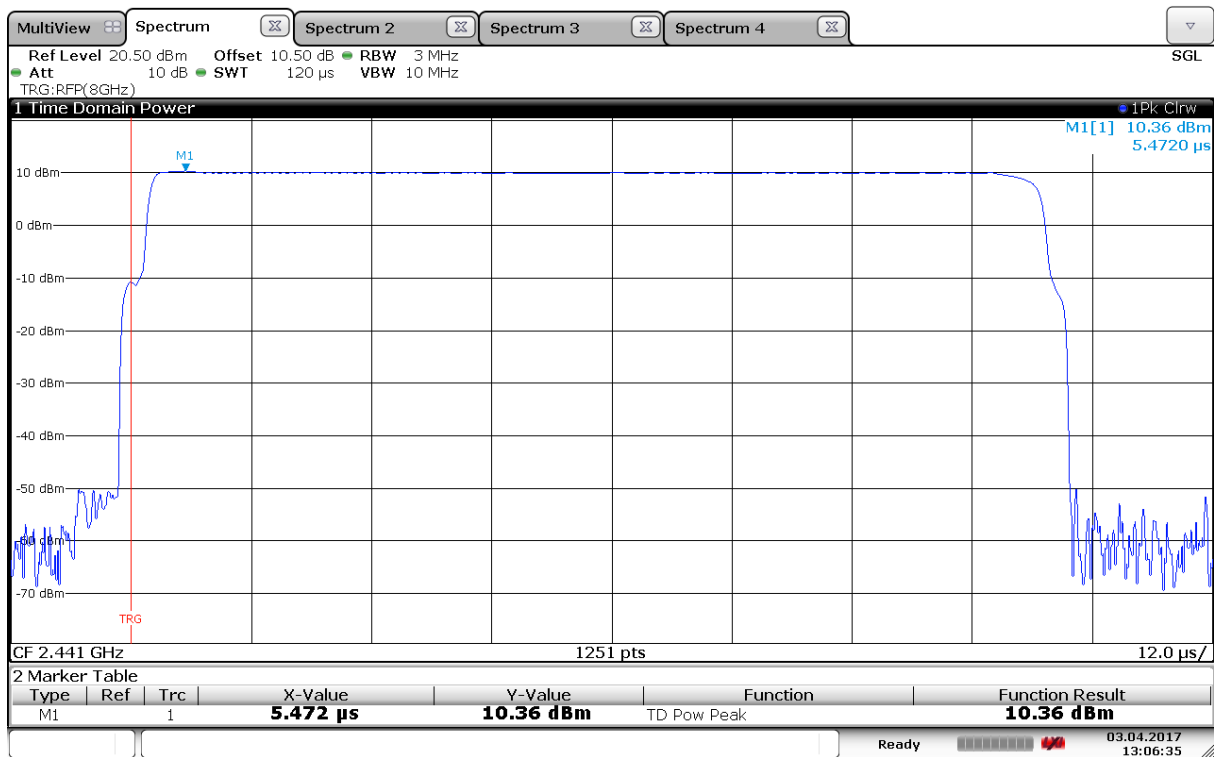
If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the stated value above by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



Conducted Power, 2403 MHz



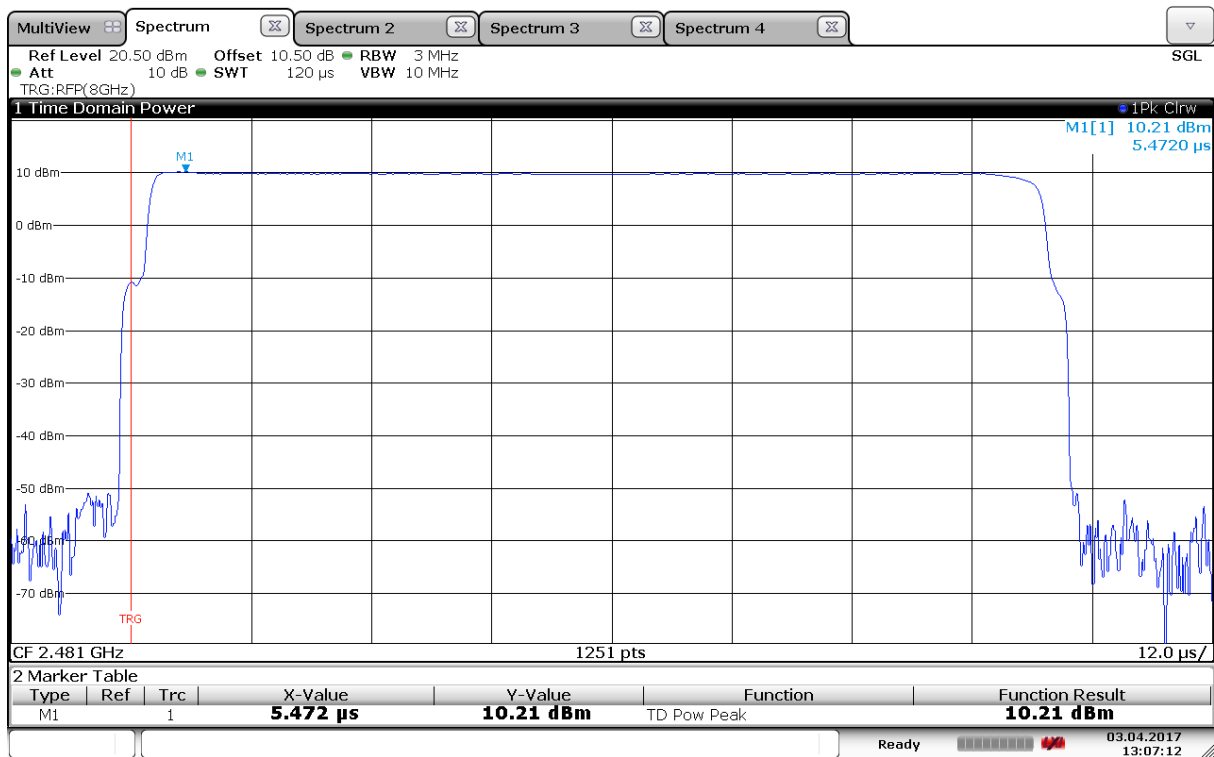
Radiated Power, 2403 MHz (Max: Ant2, VP)



Conducted Power, 2441 MHz



Radiated Power, 2441 MHz (Max: Ant2, VP)



Conducted Power, 2481 MHz



Radiated Power, 2481 MHz (Max: Ant2, VP)

3.5 Conducted Emissions at Antenna Connector

FCC Part 15.247 (d)

Test Results: **Complies**

Measurement Data:

Carrier Frequency	Highest Value (dBc)	Margin (dB)	Verdict
2403 MHz	> 60	> 40	Pass
2441 MHz	> 60	> 40	Pass
2481 MHz	> 60	> 40	Pass

Measured with Peak Detector

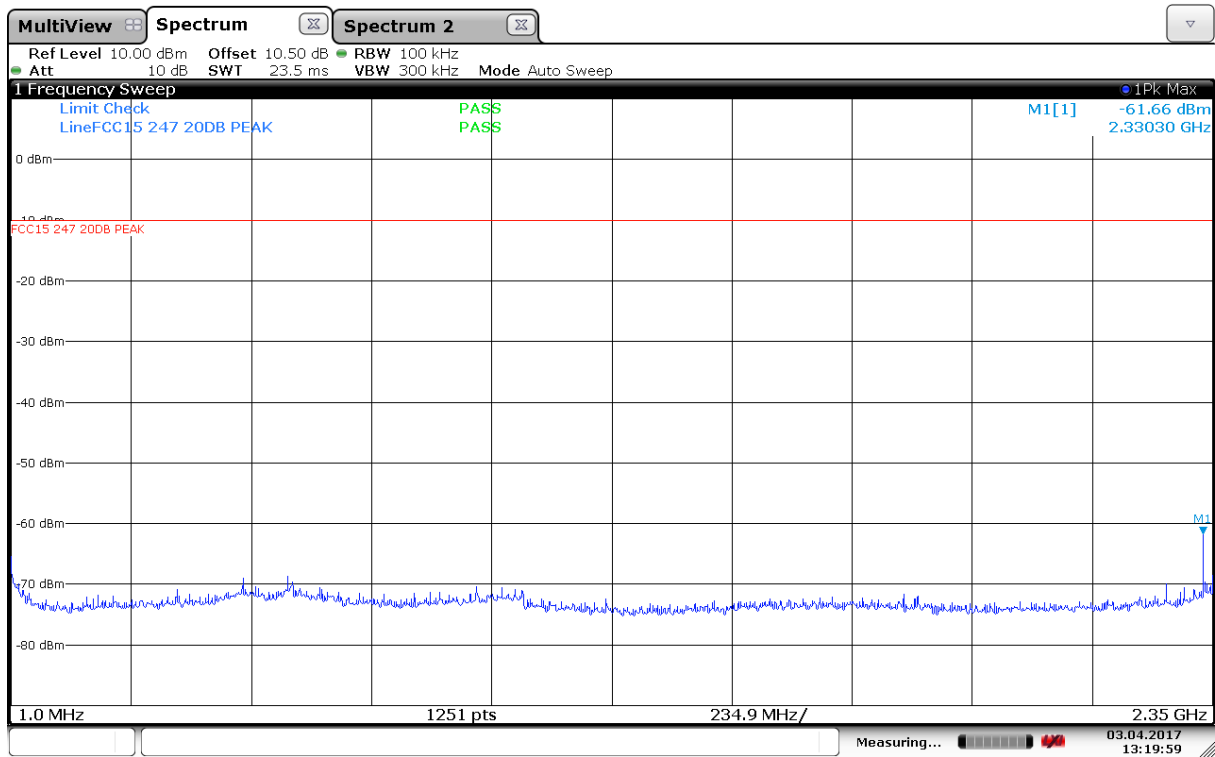
RF conducted power to 25 GHz: see attached plots.

Limit

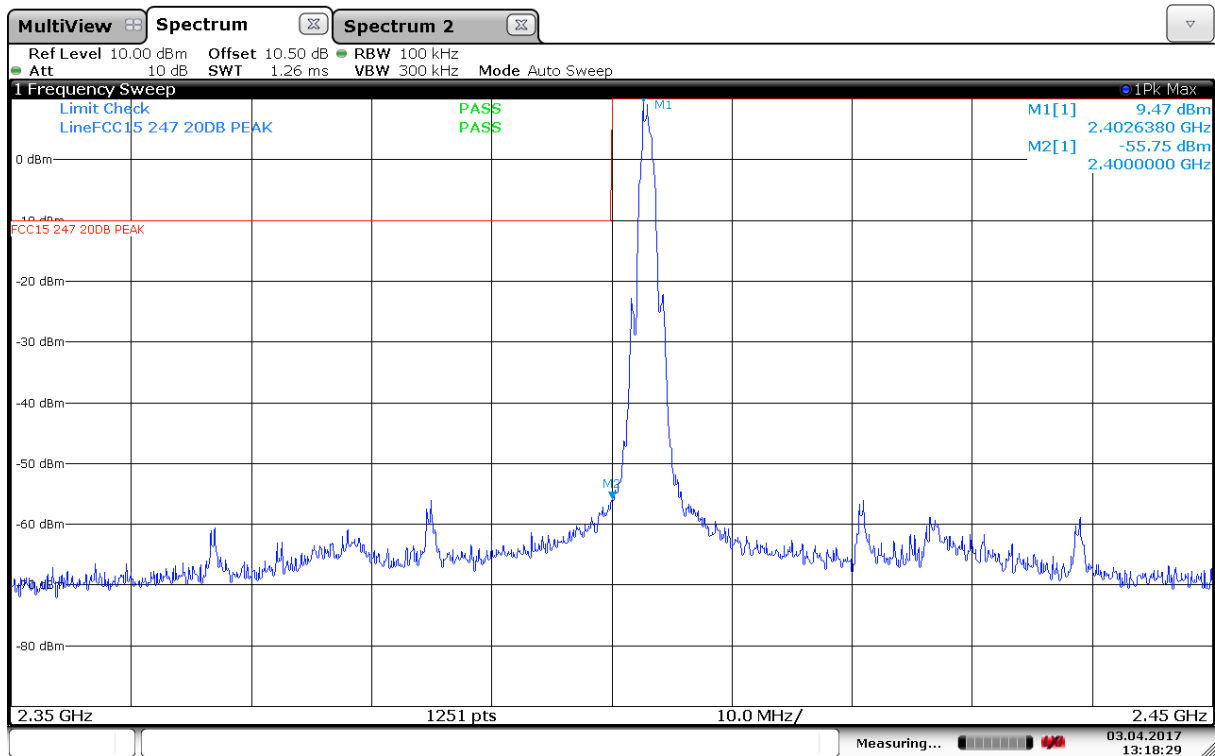
Peak measurement	RMS averaging
20 dBc or more in 100 kHz bandwidth	30 dBc or more in 100 kHz bandwidth

Detector type shall be the same as used for measuring Output Power.

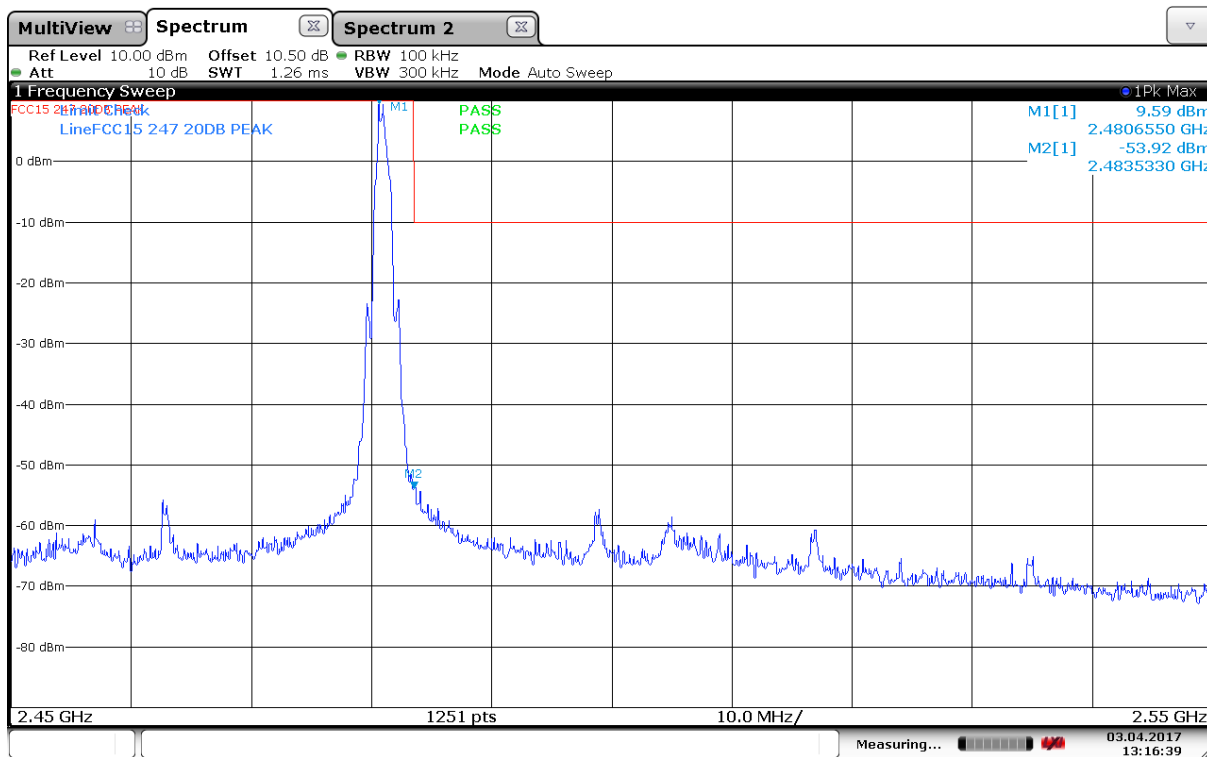
Attenuation below the general limits specified in part 15.209(a) is not required.



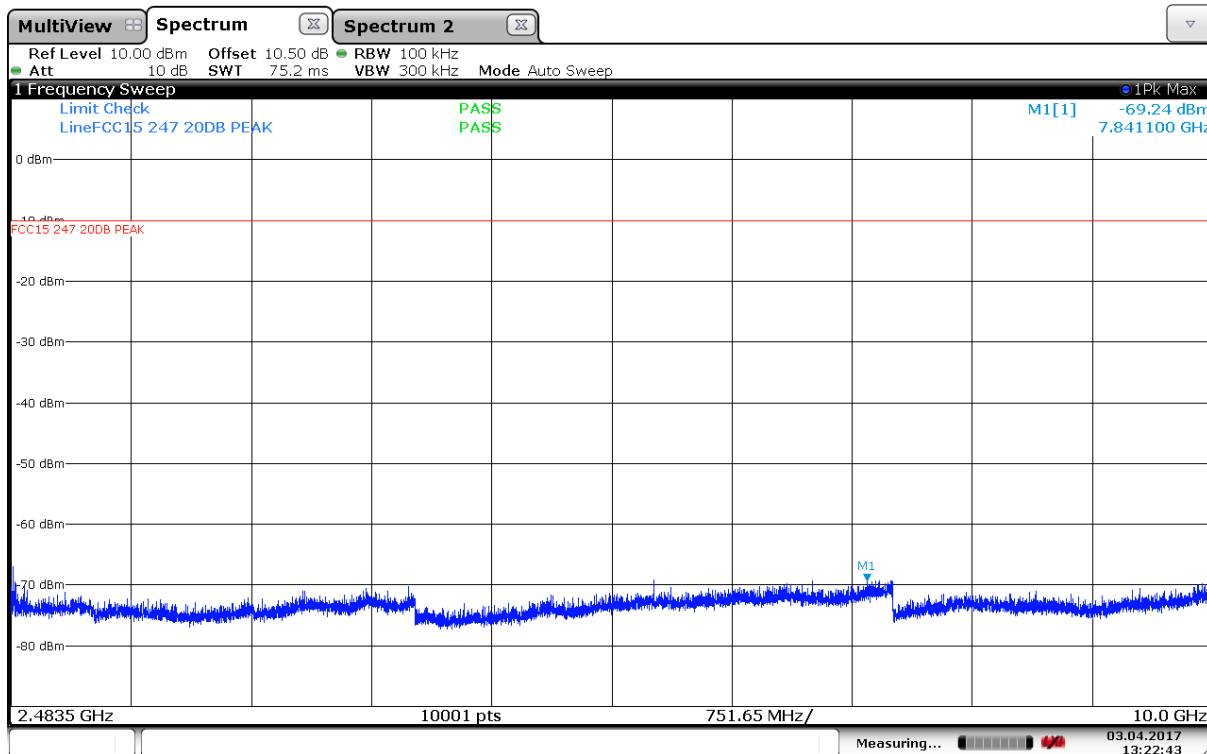
Conducted Emissions, 1 – 2350 MHz, 2403MHz



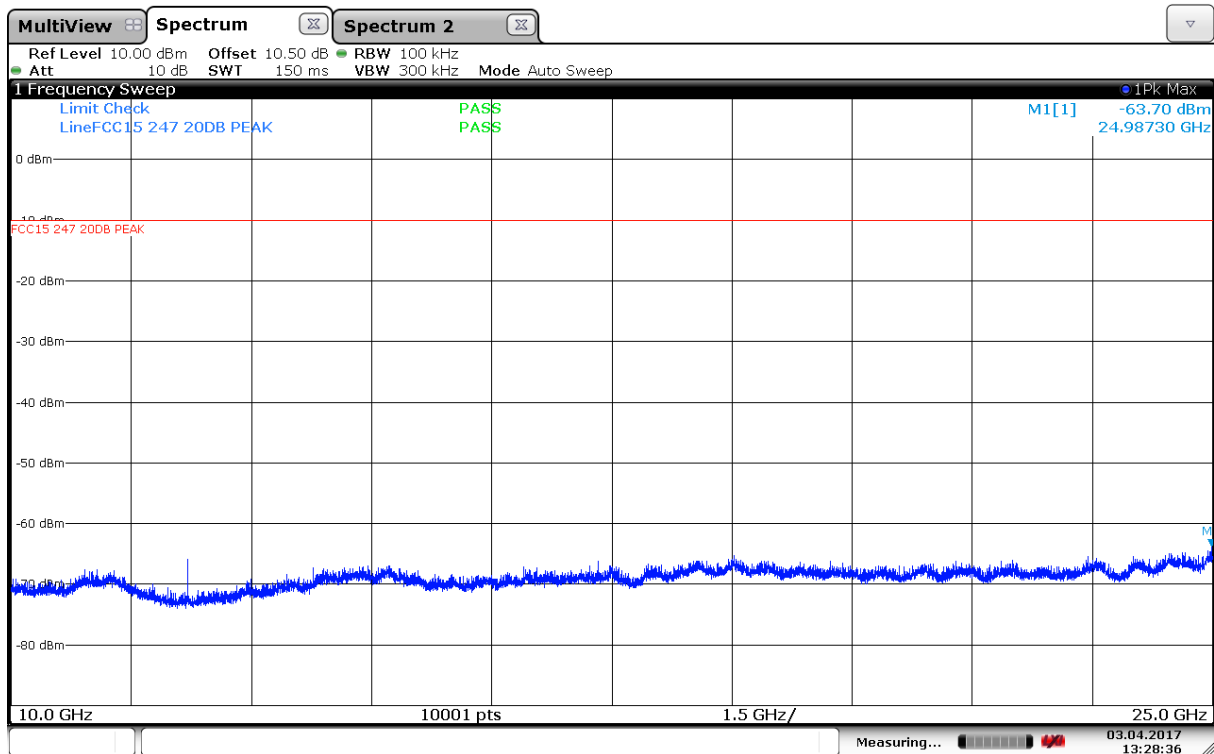
Conducted Emissions, 2350 – 2450 MHz, 2403MHz



Conducted Emissions, 2450 – 2550 MHz, 2481MHz



Conducted Emissions, 2483.5 – 10000 MHz, 2441MHz



Conducted Emissions, 10000 – 25000 MHz, 2441MHz

3.6 Restricted Bands of operation

Restricted Bands of operation for FCC and ISSED are defined in FCC Part 15.205 and ISSED RSS-GEN, Issue 4 clause 8.10.

Generally, no fundamentals are allowed in the restricted bands and all emissions must comply with the limits in FCC 15.209 or RSS-GEN, Issue 4, clause 8.9.

FCC (MHz)	ISSED (MHz)	FCC (GHz)	ISSED (GHz)
0.090-0.110		0.96-1.24 1.3-1.427	0.96-1.427
0.495-0.505		1.435-1.6265	
2.1735-2.1905		1.6455-1.6465	
	3.020-3.026	1.660-1.710	
4.125-4.128		1.7188-1.7222	
4.17725-4.17775		2.2-2.3	
4.20725-4.20775		2.31-2.39	
	5.677-5.683	2.4835-2.5	
6.215-6.218		2.69-2.9	2.655-2.9
6.26775-6.26825		3.26-3.267	
6.31175-6.31225		3.332-3.339	
8.291-8.294		3.3458-3.358	
8.362-8.366		3.6-4.4	3.5-4.4
8.37625-8.38675		4.5-5.15	
8.41425-8.41475		5.35-5.46	
12.29-12.293		7.25-7.75	
12.51975-12.52025		8.025-8.5	
12.57675-12.57725		9.0-9.2	
13.36-13.41		9.3-9.5	
16.42-16.423		10.6-12.7	
16.69475-16.69525		13.25-13.4	
16.80425-16.80475		14.47-14.5	
25.5-25.67		15.35-16.2	
37.5-38.25		17.7-21.4	
73-74.6		22.01-23.12	
74.8-75.2		23.6-24.0	
108-121.94 123-138	108-138	31.2-31.8	
149.9-150.05		36.43-36.5	
156.52475-156.52525		Above 38.6	
156.7-156.9			
162.0125-167.17			
167.72-173.2			
240-285			
322-335.4			
399.9-410			
608-614			

Frequencies in **Bold** text are specific for FCC or ISSED, all other frequencies are common.

3.7 Spurious Emissions (Radiated)

FCC 15.205, 15.209

Test Results: Complies

Measurement Data:

Band-edge conducted power

	Measured field strength dB μ V/m		Limit dB μ V/m	Margin dB	
	2390 MHz	2483.5 MHz			
Peak Detector	47.2	41.7*	74	26.8	32.3
Average Detector	40.1	34.6*	54	26.8	19.4

*Measured with Marker Delta Method

Average Detector values are measured with Peak Detector and corrected for Duty Cycle.

Both antennas were tested to find the maximum value. Band Edge values were measured in the maximum position and antenna.

See attached plots.

Marker Delta Method:

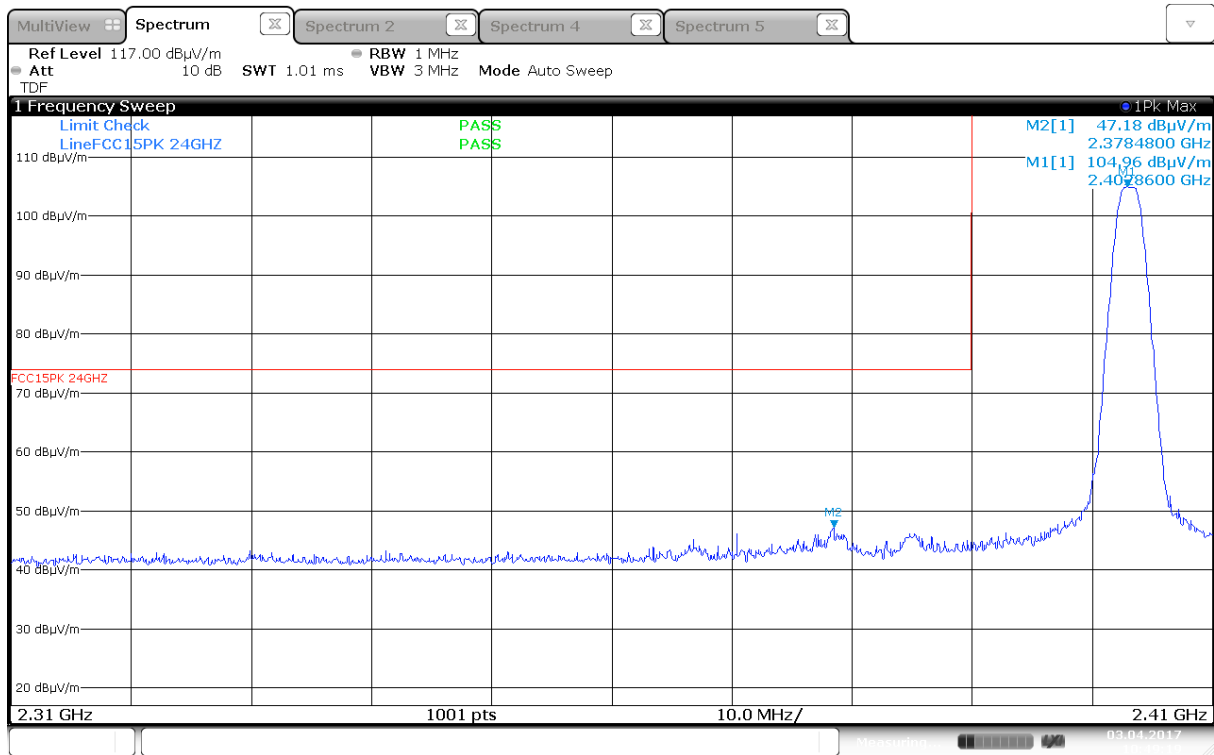
Peak level at 2481MHz RBW=1MHz: 104.34 dB μ V/m
Marker Delta 100kHz: 62.65 dB
Peak Level at Band Edge: 41.69 dB μ V/m
Av Level at Band Edge: 34.59 dB μ V/m

Duty Cycle Correction Factor Calculation:

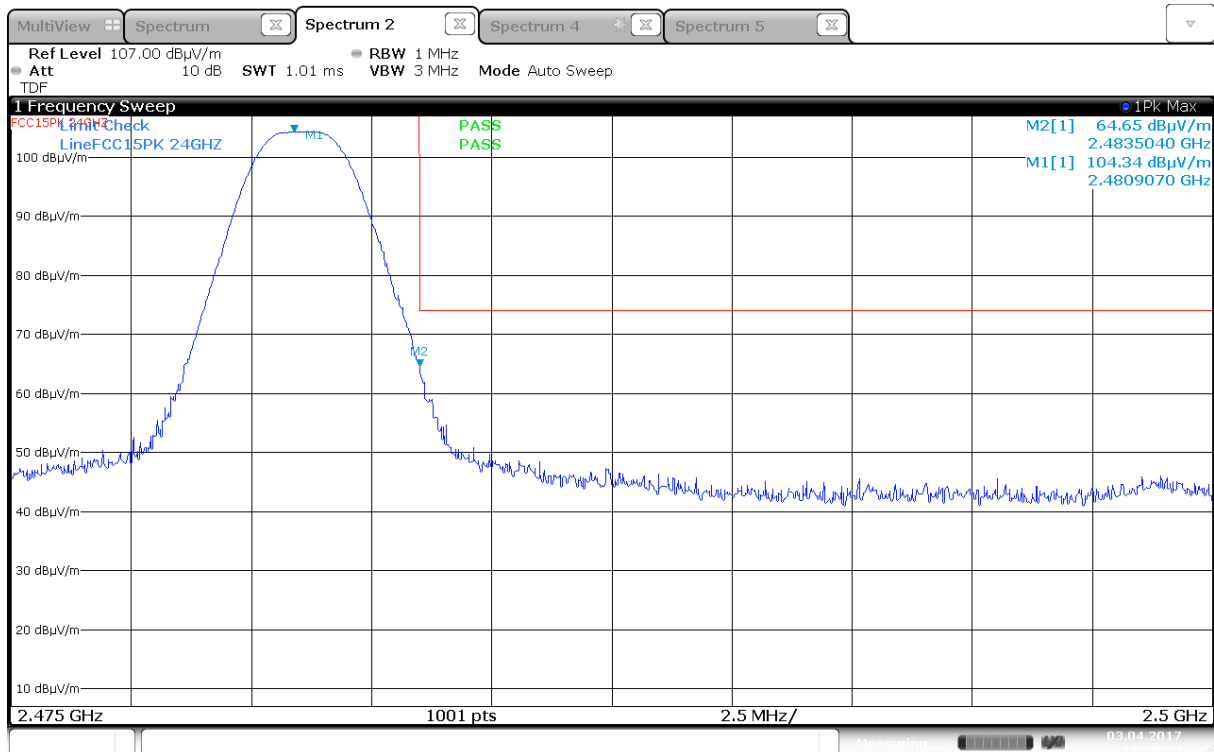
Duty Cycle = slot length / frame length

Duty Cycle Correction factor = $-20 \times \log(\text{Duty Cycle}) = 7.1 \text{ dB}$

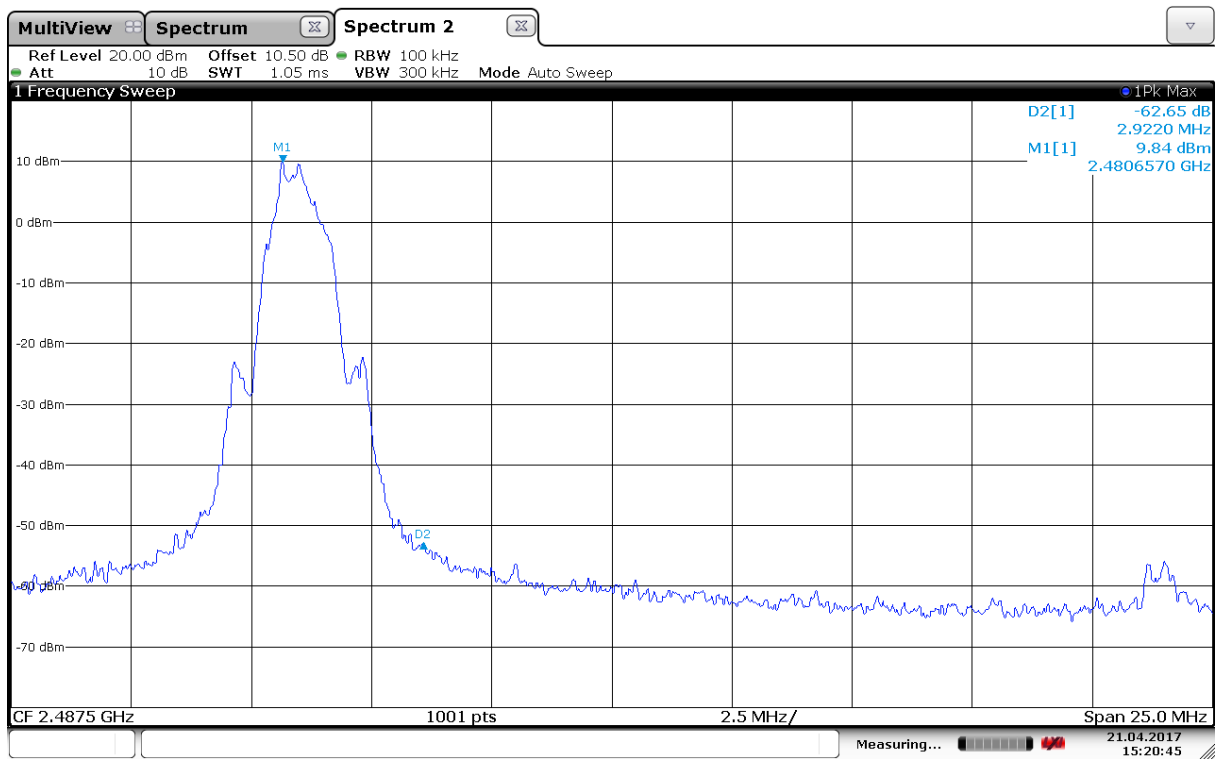
Maximum Duty Cycle Correction Factor per Para 15.35 (b): 7.1 dB



Lower Band Edge, 2403MHz, Peak (Max: Ant 1, VP)



Upper Band Edge, 2481MHz, Peak Level (Max: Ant 2, VP)



Upper Band Edge, 2481MHz, Marker Delta

3.8 Radiated Emissions, below 1GHz

FCC 15.205, 15.209

ISED RSS-GEN, Issue 4, Clause 8.9

Test Results: Complies

Radiated emission 30 – 1000 MHz.

Detector: Quasi-Peak

Measuring distance 3 m

Tested in during normal operation with active connection and with diversity

Measured values:

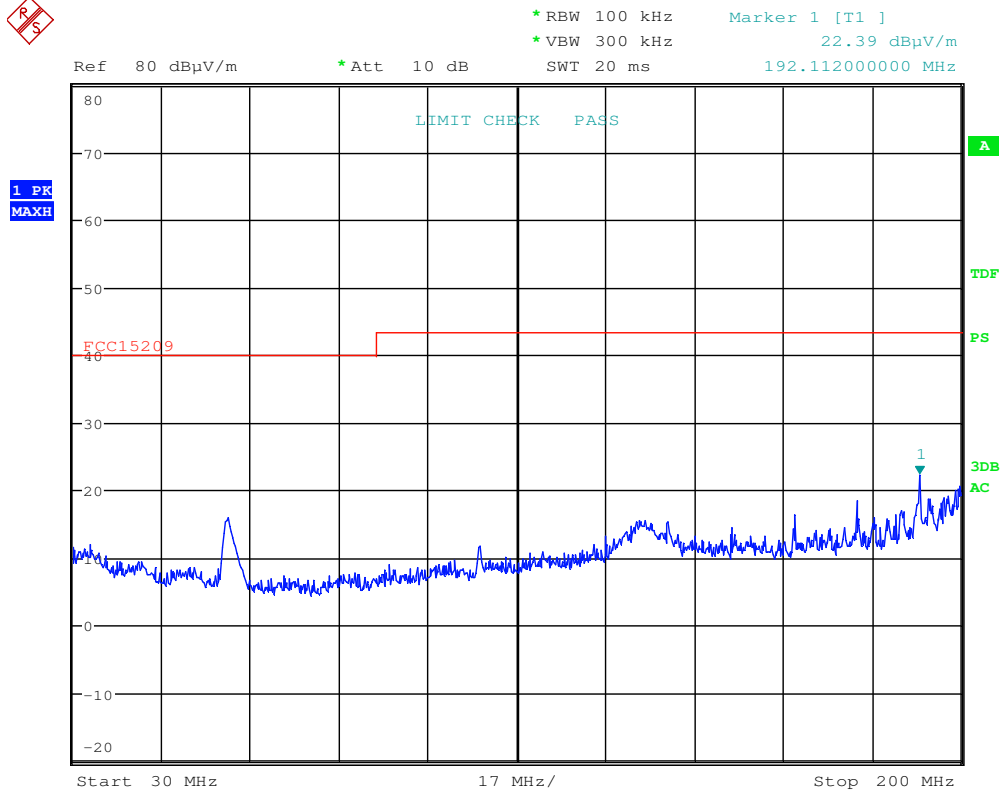
Frequency MHz	RF channel L,M,H	Field Strength, QP dB μ V/m @3m	Limit dB μ V/m	Margin dB
50.3*	M	28.1	40	11.9
30-88 (other freqs)	M	< 20 (Peak)	40	>20
88-216	M	< 30 (Peak)	43.5	>13.5
216-960	M	< 35 (Peak)	46	>11
960-1000	M	< 25 (Peak)	54	>29

*Not in a restricted band

See attached plots.

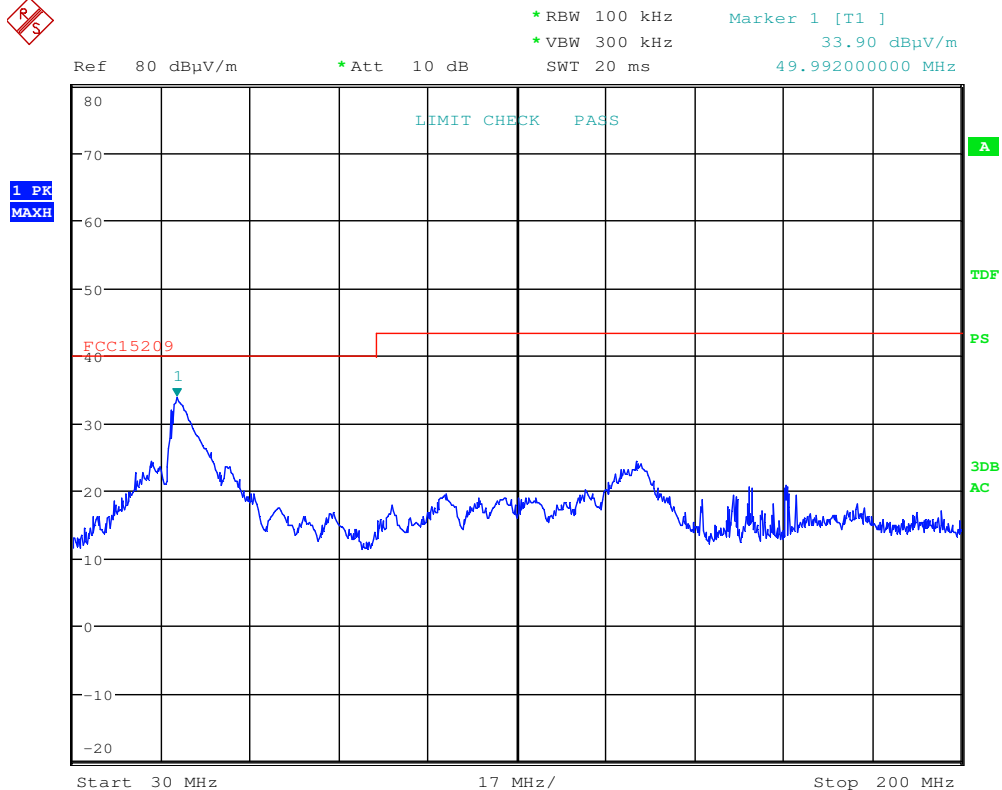
Requirements/Limit

FCC	Part 15.209 @ frequencies defined in §15.205	
ISED	RSS-GEN Issue 4, Clause 8.9 @ frequencies defined in clause 8.10	
	Radiated emission limit @3 meters	
Frequency (MHz)	Quasi Peak (µV/m)	Quasi Peak (dBµV/m)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0



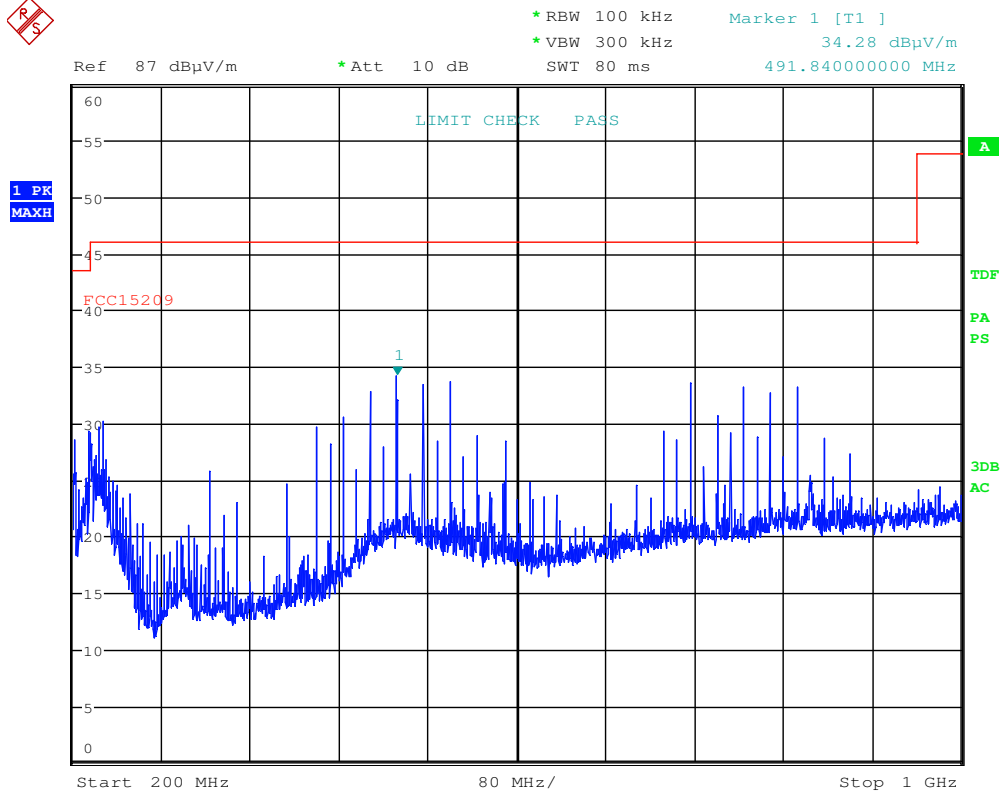
Date: 5.APR.2017 13:09:26

Radiated emissions, 30 -200MHz, HP, Peak



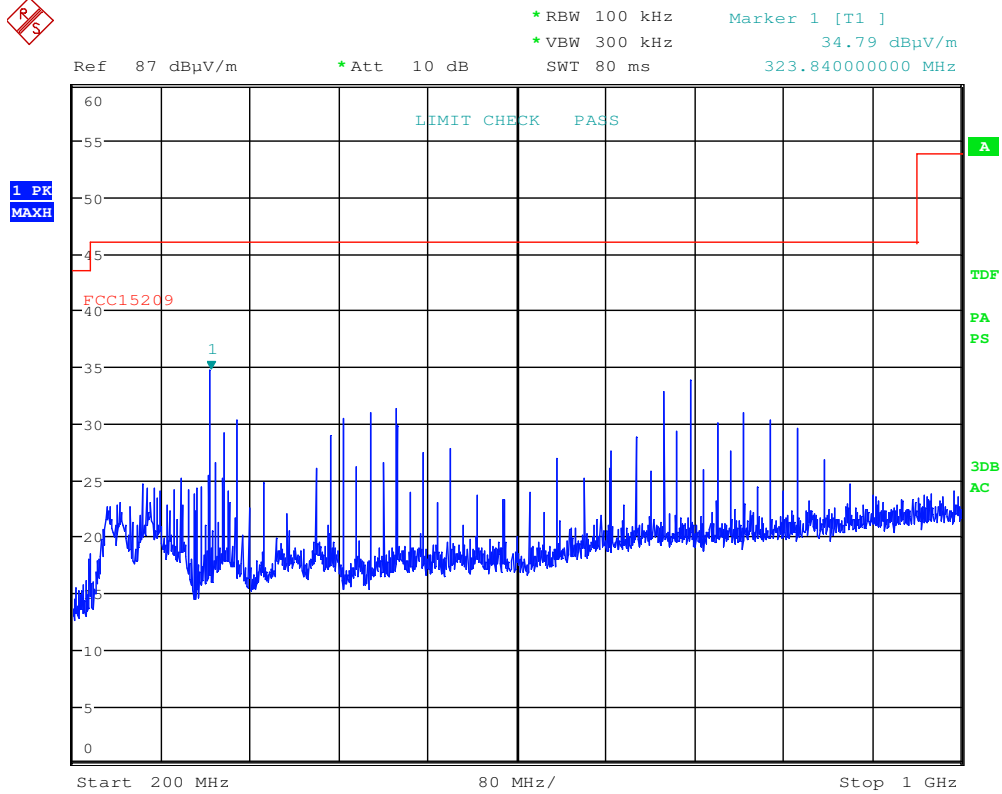
Date: 5.APR.2017 13:07:27

Radiated emissions, 30 -200MHz, VP, Peak



Date: 5.APR.2017 12:57:37

Radiated emissions, 200 -1000MHz, HP, Peak



Date: 5.APR.2017 12:55:29

Radiated emissions, 200 -1000MHz, VP, Peak

3.9 Radiated Emissions, above 1GHz

FCC 15.205, 15.209

ISED RSS-GEN, Issue 4, Clause 8.9

Test Results: Complies

Measurement Data:

Radiated Emissions, 1-25 GHz

Measuring distance: 3m (1 – 8.5 GHz)
1m (8 – 18 GHz)

A pre-scan was performed above 18 GHz and no spurious emissions were detected.

Measured values:

Frequency	RF channel	Field Strength Peak	Field Strength AV	Limit	Margin dB	
GHz	L,M,H	dB μ V/m @3m	dB μ V/m @3m	dB μ V/m	Peak	AV
All freqs	M	< 54	< 34	74/54	>20	>20

No spurious emissions were detected.

Average Detector values are calculated from Peak values by Duty Cycle Correction Factor.

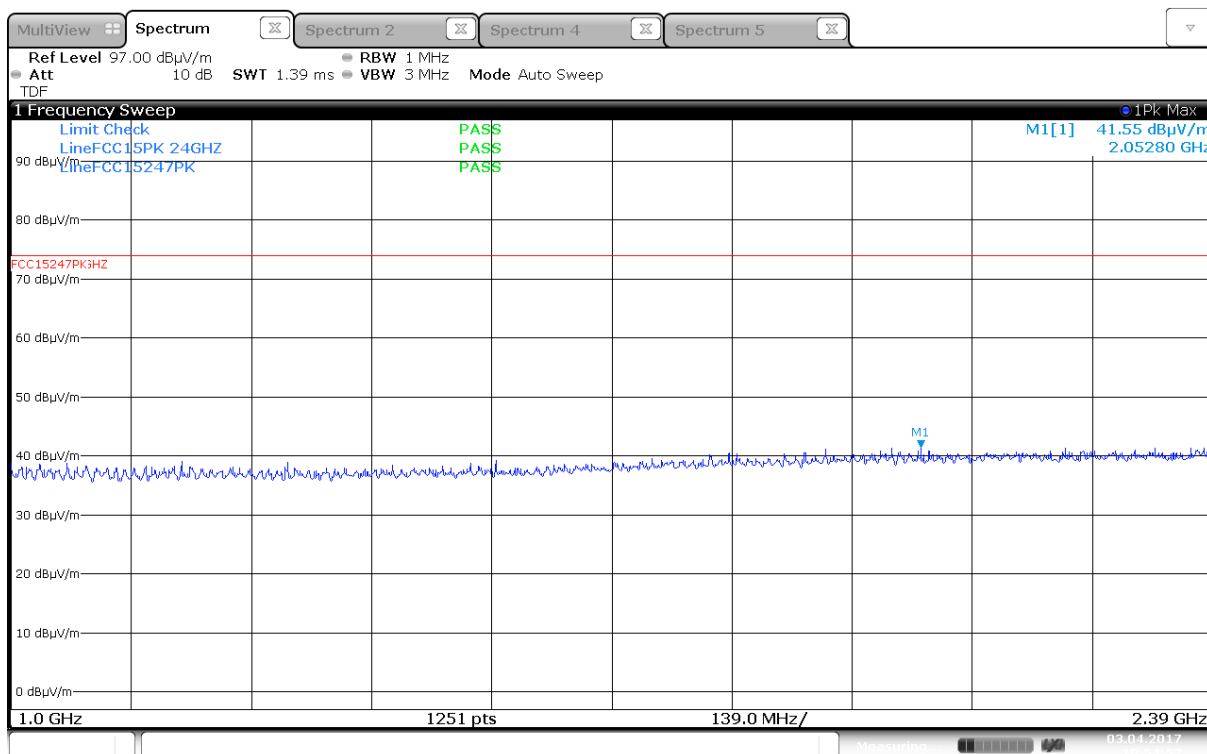
Antenna factor, amplifier gain and cable loss are included in spectrum analyzer "Transducer factor".

Both antennas were tested.

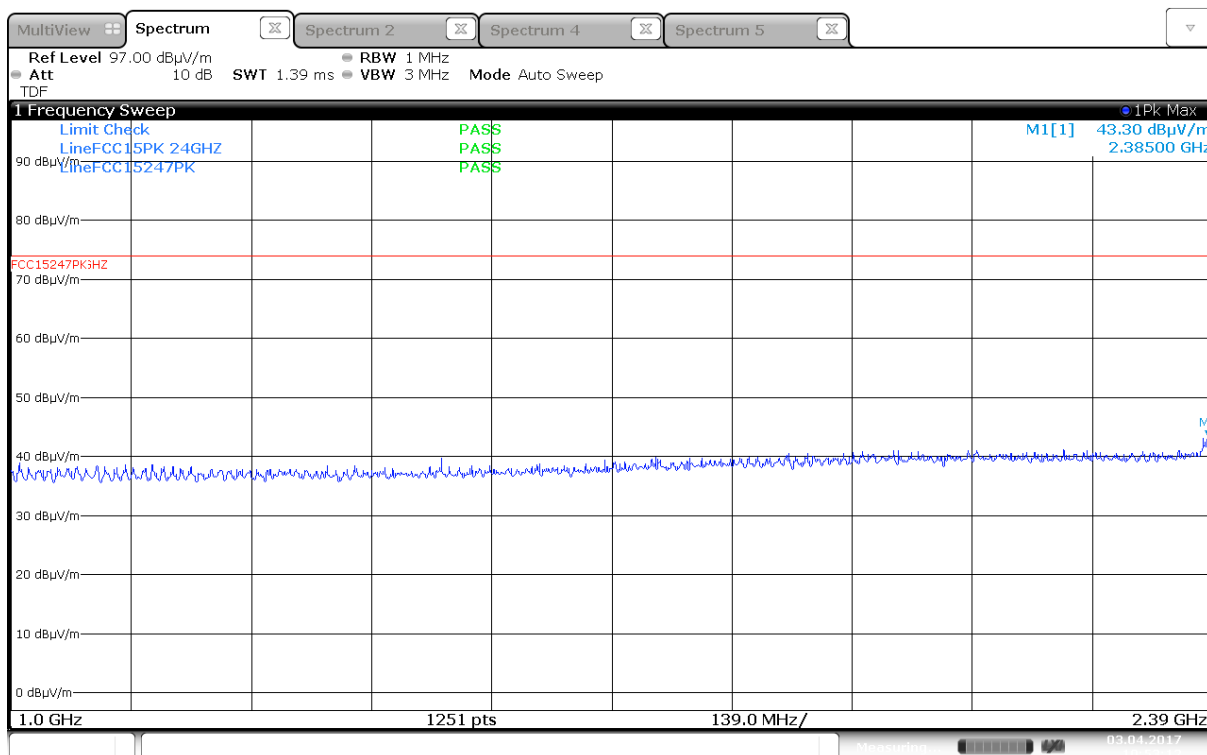
See plots.

Requirements/Limit

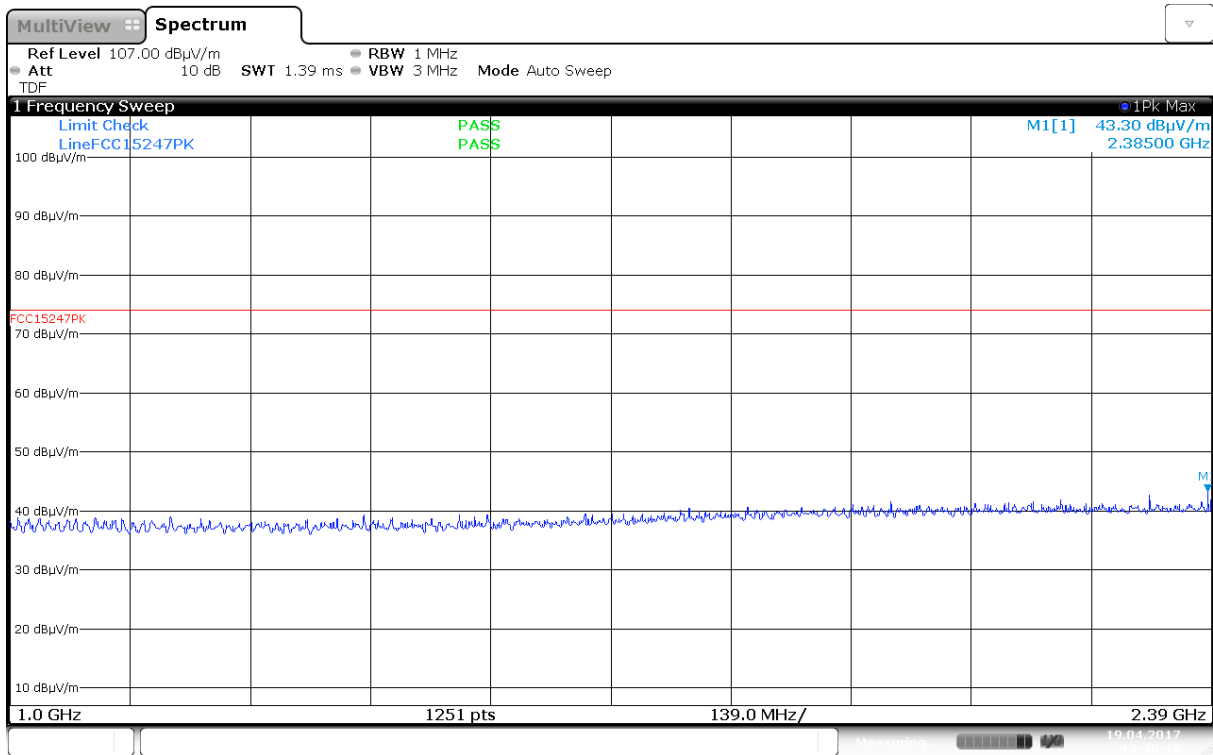
FCC	Part 15.209 @ frequencies defined in §15.205	
ISED	RSS-GEN Issue 4, Clause 8.9 @ frequencies defined in clause 8.10	
	Radiated emission limit @3 meters	
Frequency (MHz)	AV (dB μ V/m)	Peak (dB μ V/m)
Above 1 GHz	54.0	74.0



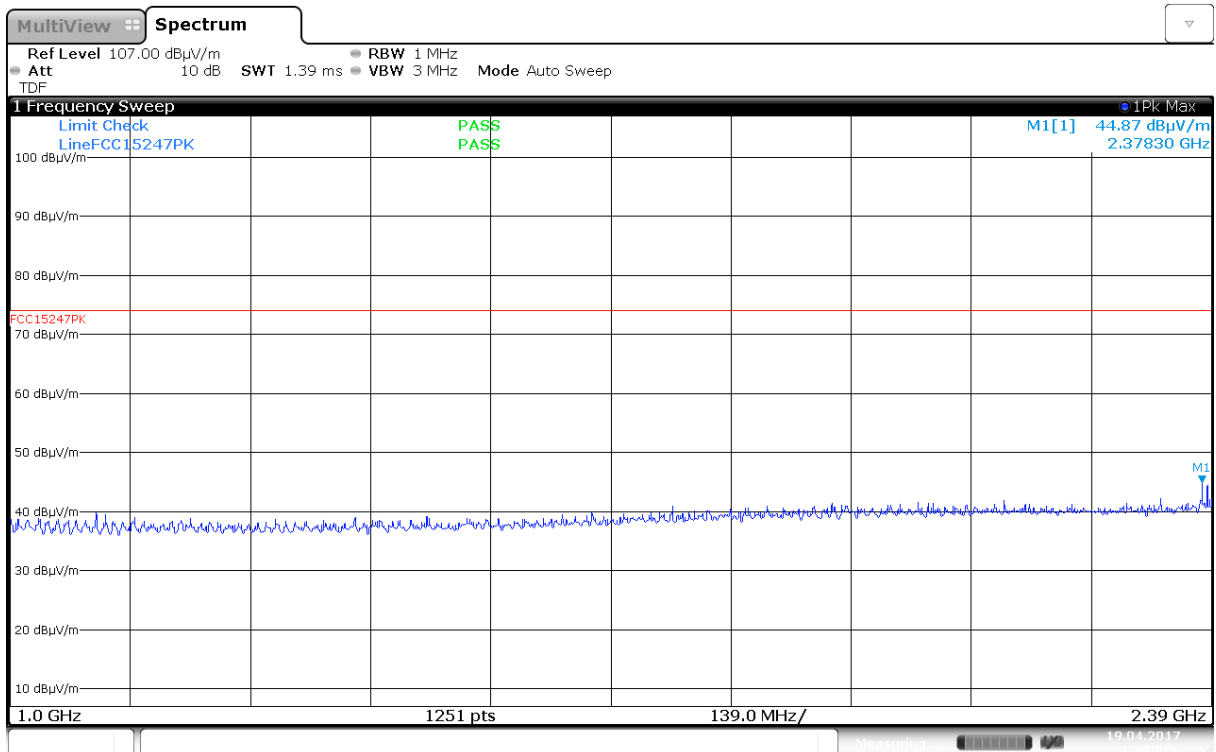
Radiated emissions, 1000 -2390MHz, HP, 2403MHz, Ant 1



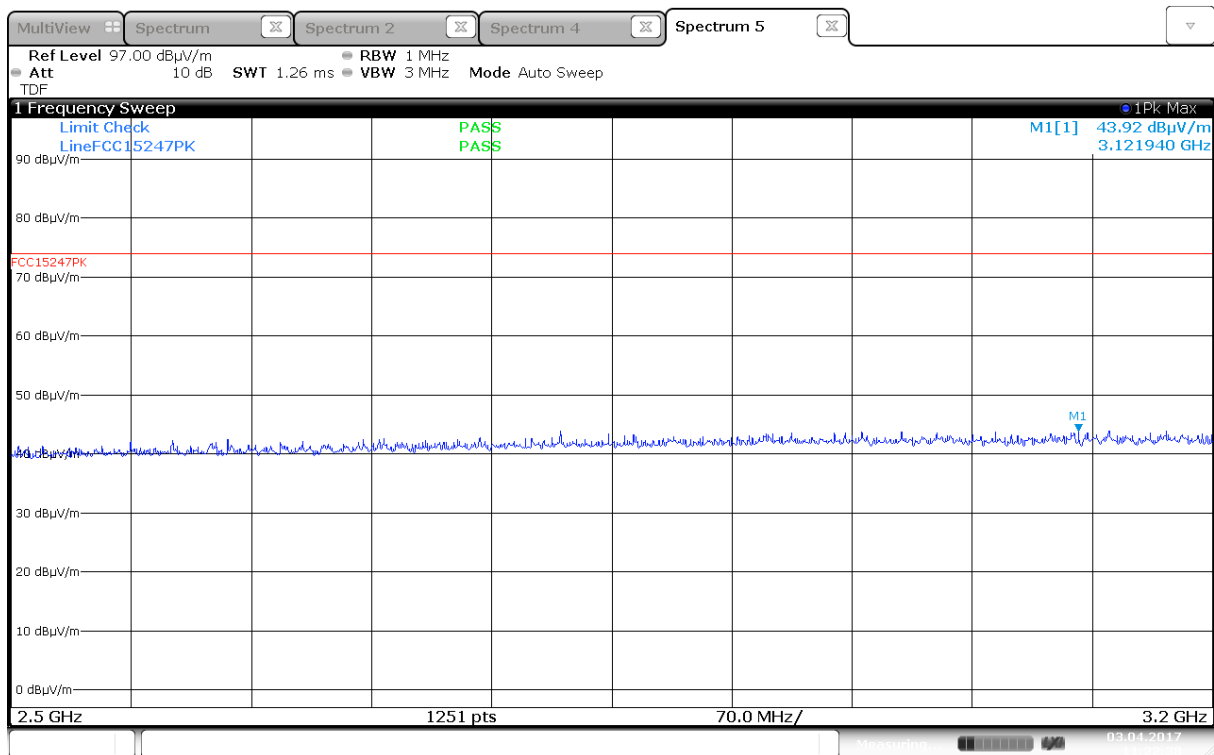
Radiated emissions, 1000 -2390MHz, VP, 2403MHz, Ant 1



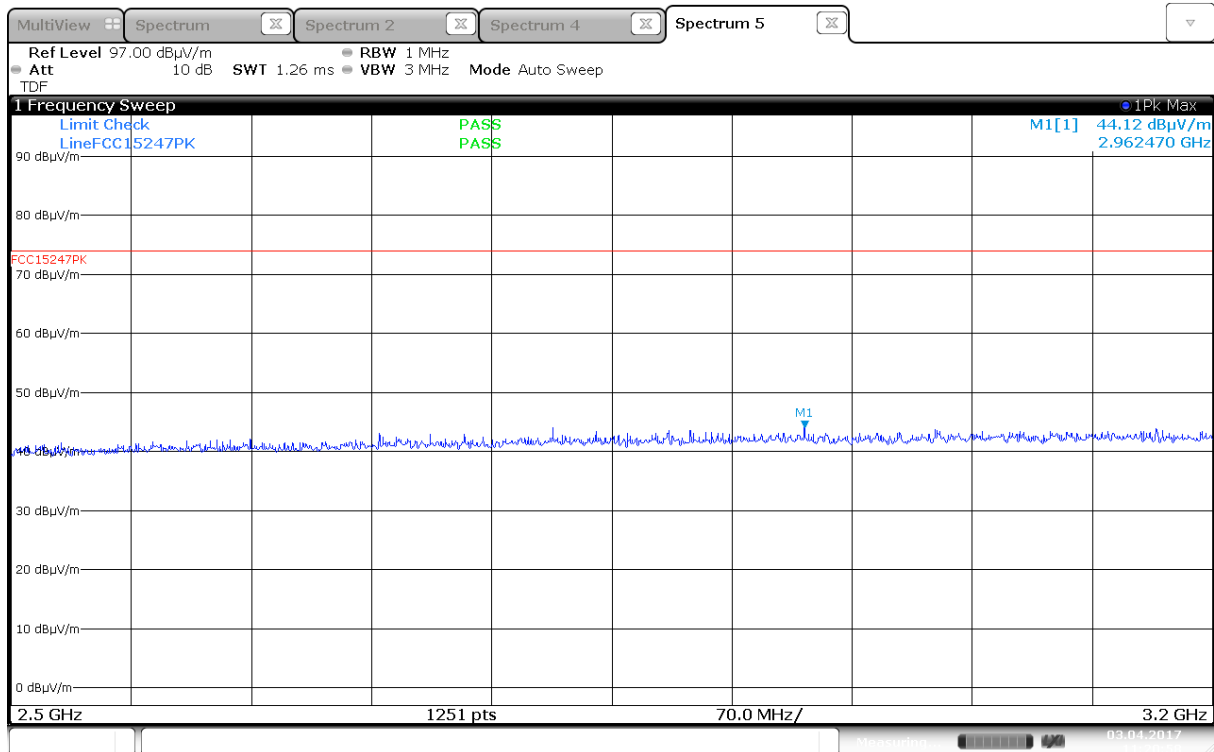
Radiated emissions, 1000 -2390MHz, HP, 2403MHz, Ant 2



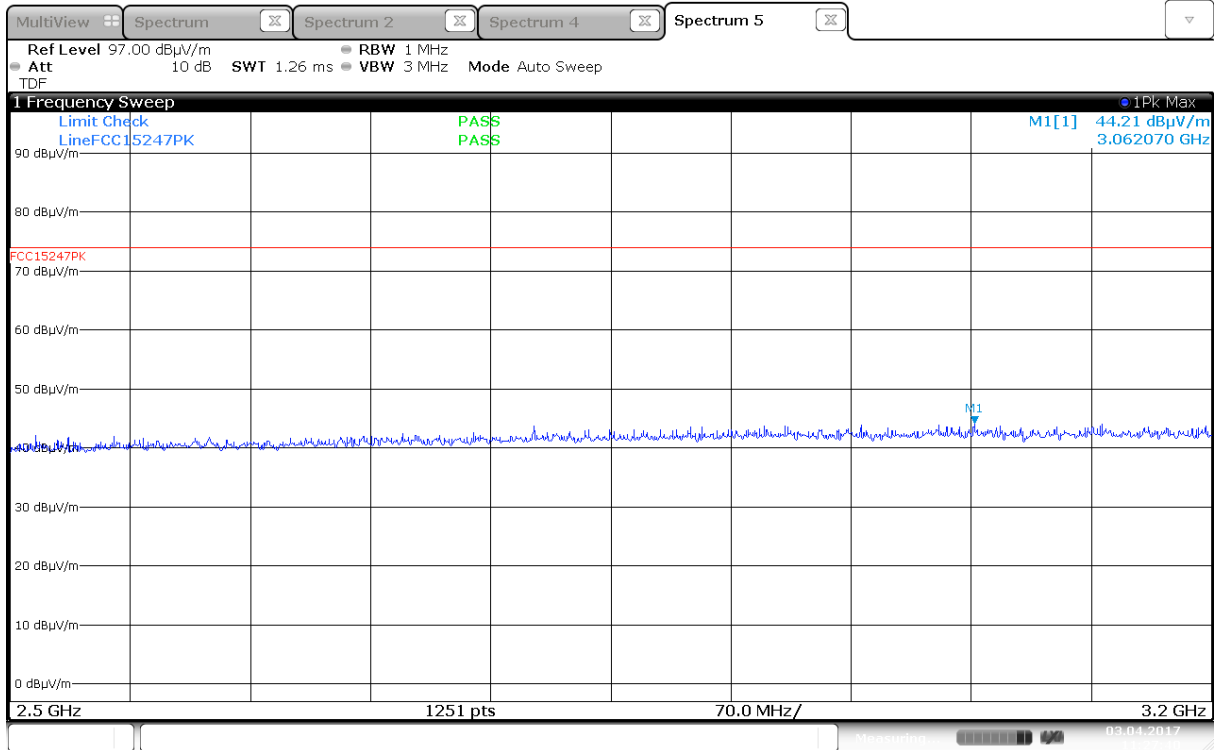
Radiated emissions, 1000 -2390MHz, VP, 2403MHz, Ant 2



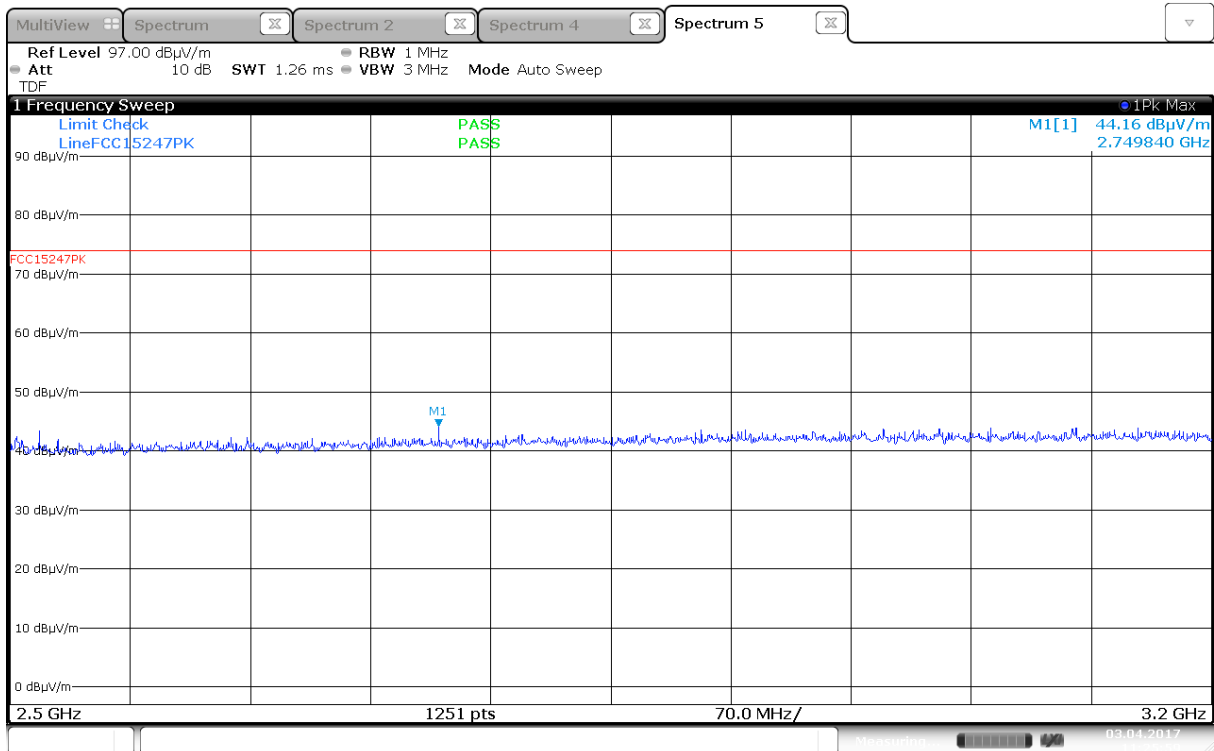
Radiated emissions, 2500 -3200MHz, HP, 2481MHz, Ant 1



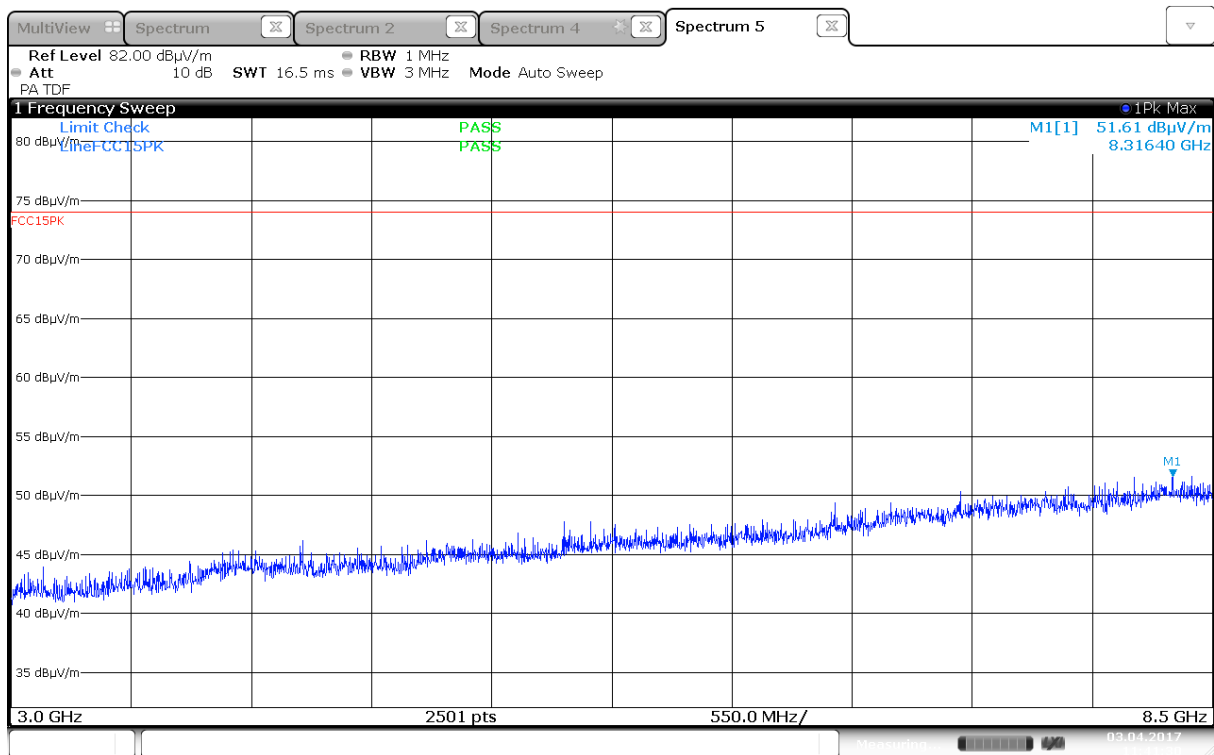
Radiated emissions, 2500 -3200MHz, VP, 2481MHz, Ant 1



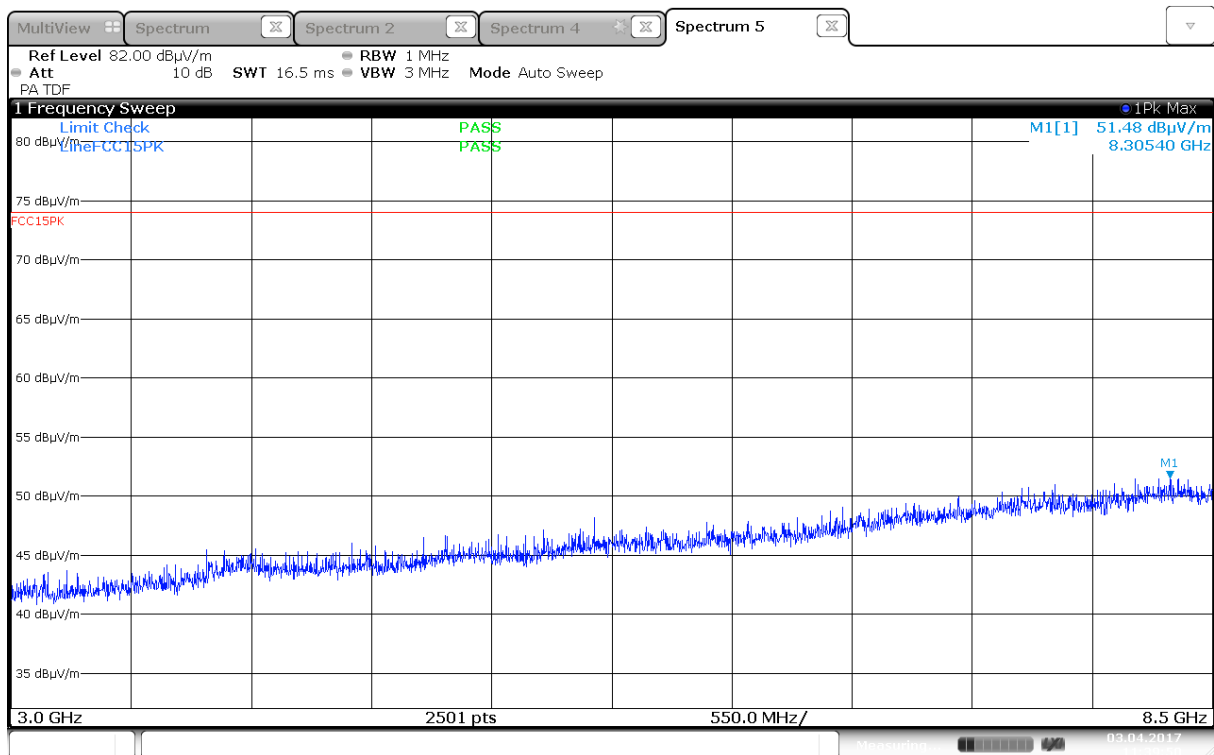
Radiated emissions, 2500 -3200MHz, HP, 2481MHz, Ant 2



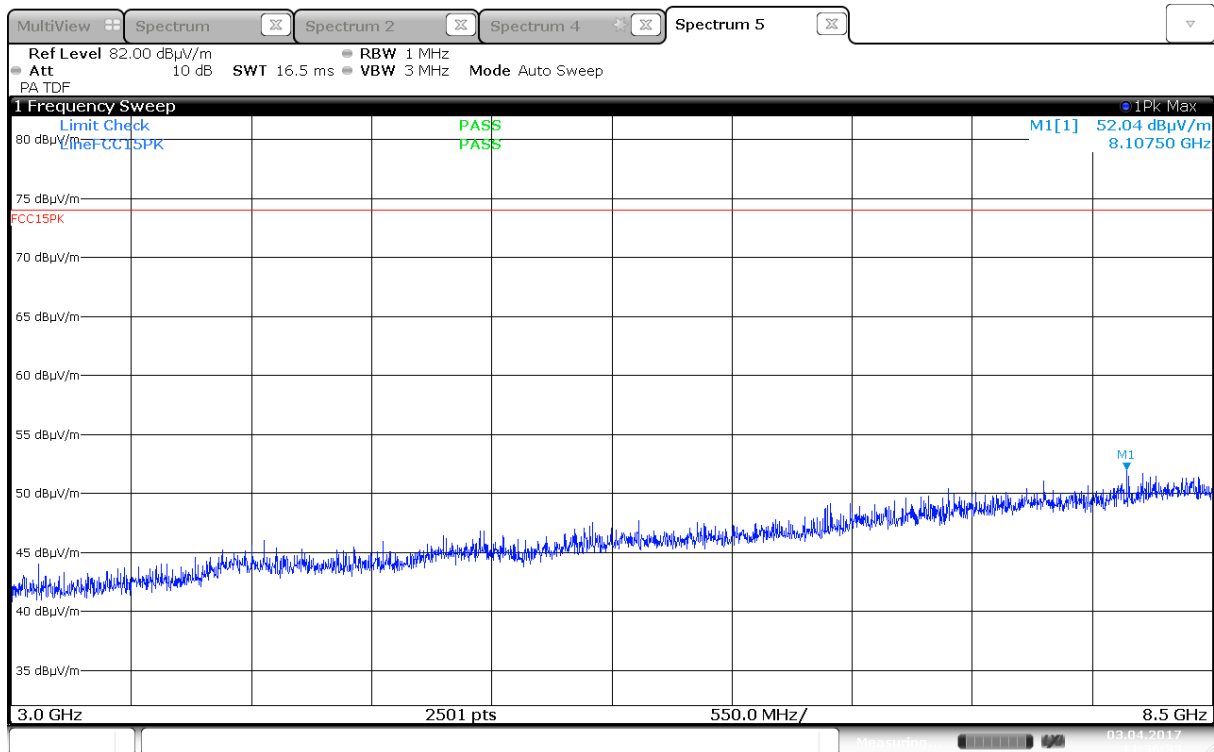
Radiated emissions, 2500 -3200MHz, VP, 2481MHz, Ant 2



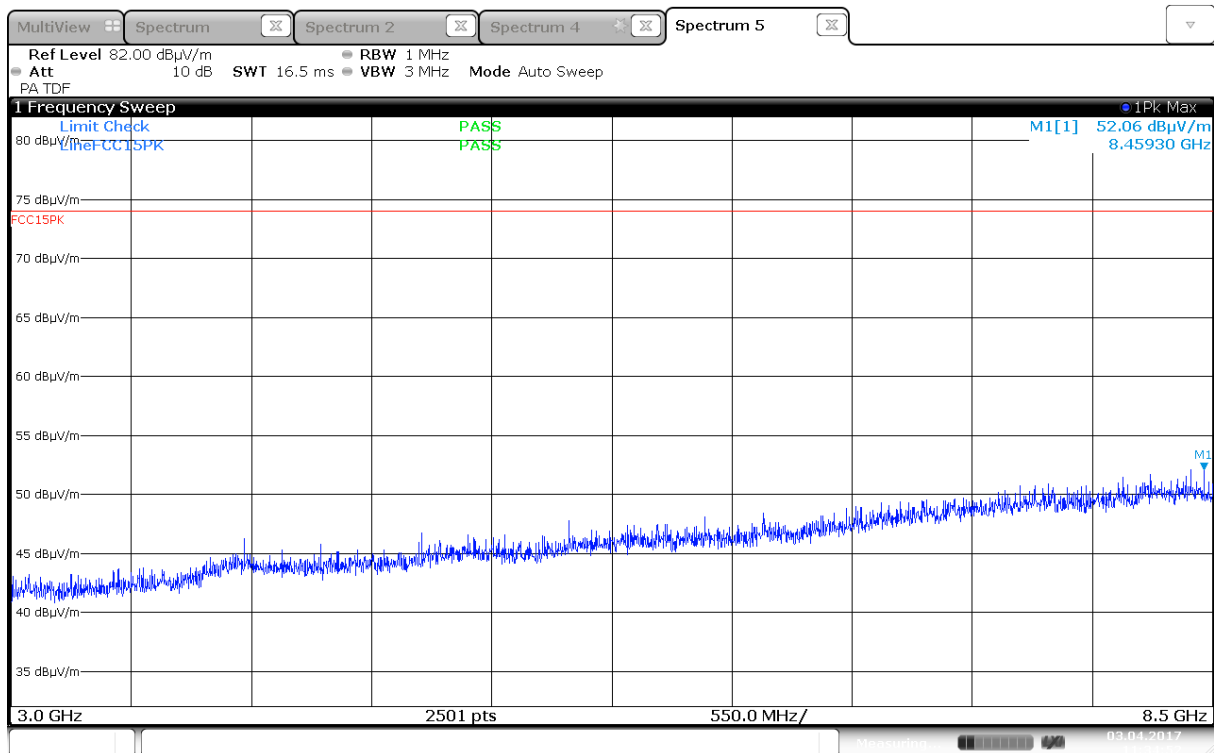
Radiated emissions, 3000 -8500MHz, HP, 2441MHz, Ant 1



Radiated emissions, 3000 -8500MHz, VP, 2441MHz, Ant 1



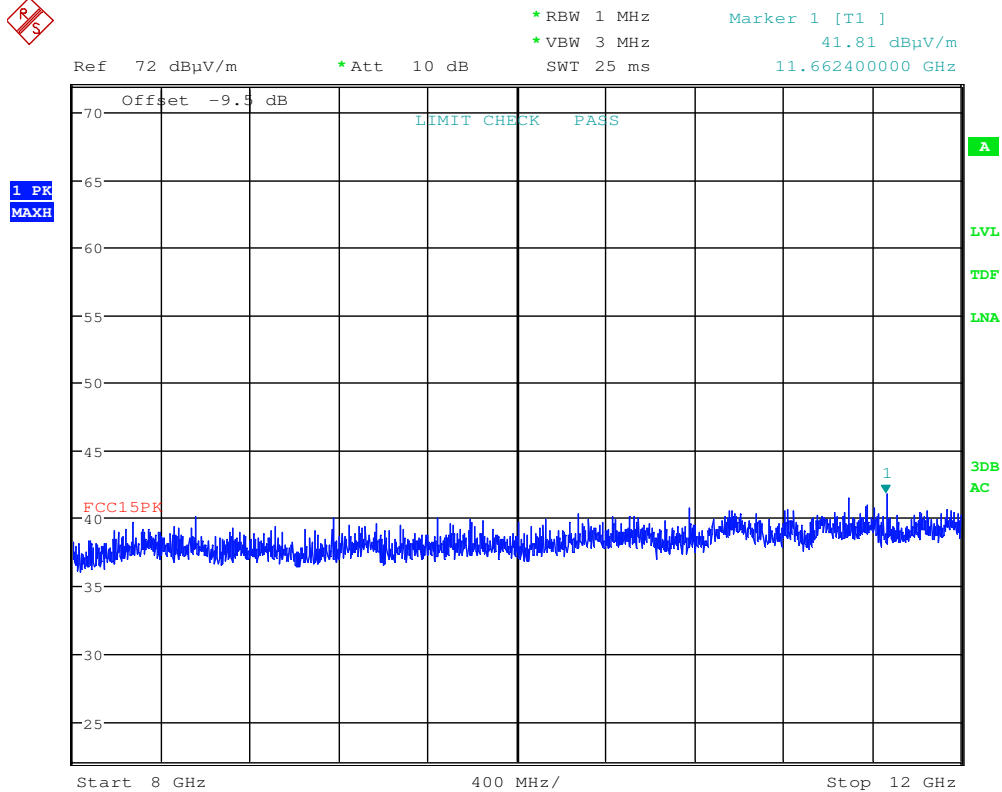
Radiated emissions, 3000 -8500MHz, HP, 2441MHz, Ant 2



Radiated emissions, 3000 -8500MHz, VP, 2441MHz, Ant 2

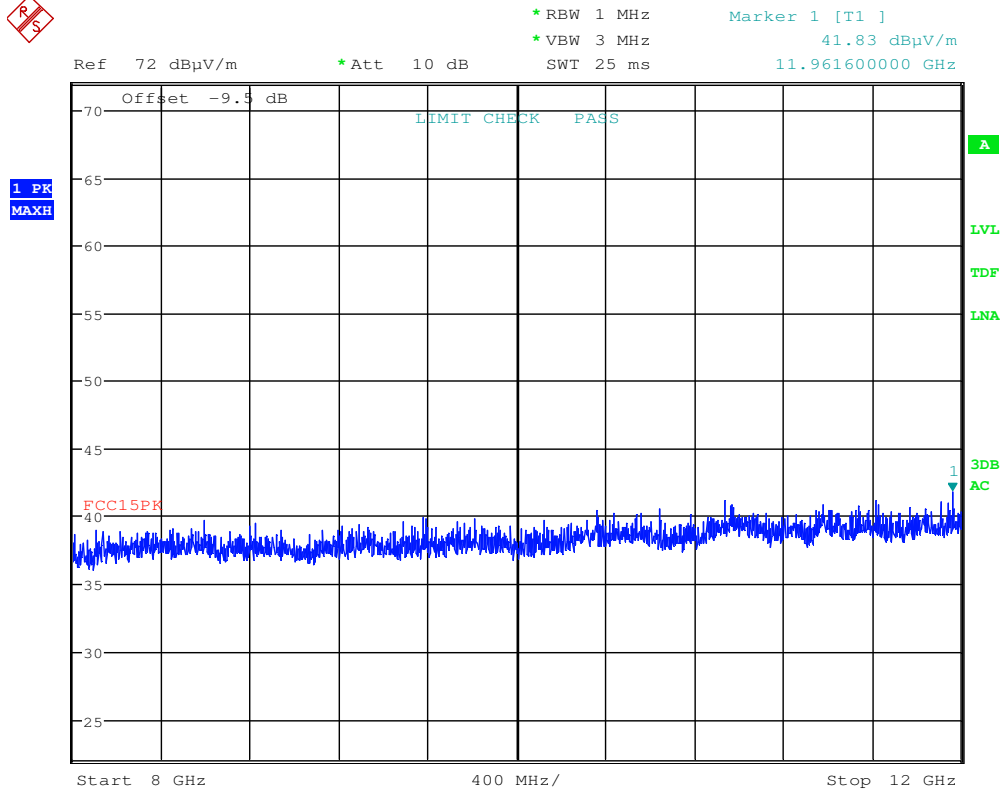


Radiated emissions, 8000 -12000MHz, HP, 2441MHz, Ant 1, @1m



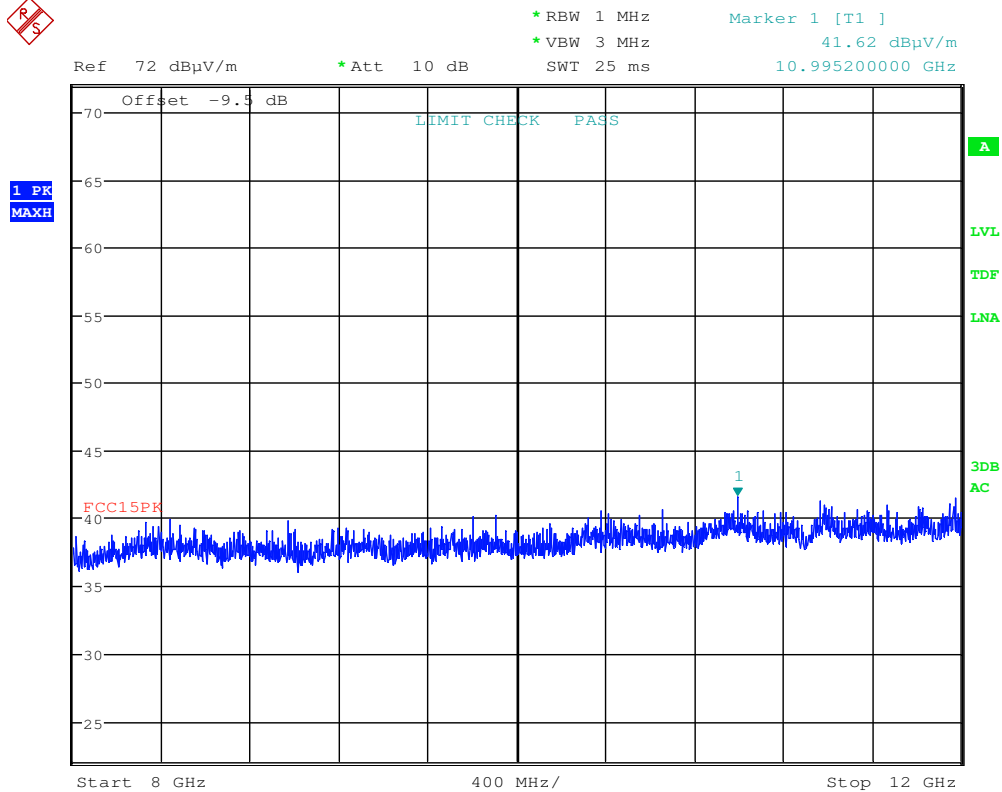
Date: 18.APR.2017 16:02:50

Radiated emissions, 8000 -12000MHz, VP, 2441MHz, Ant 1, @1m



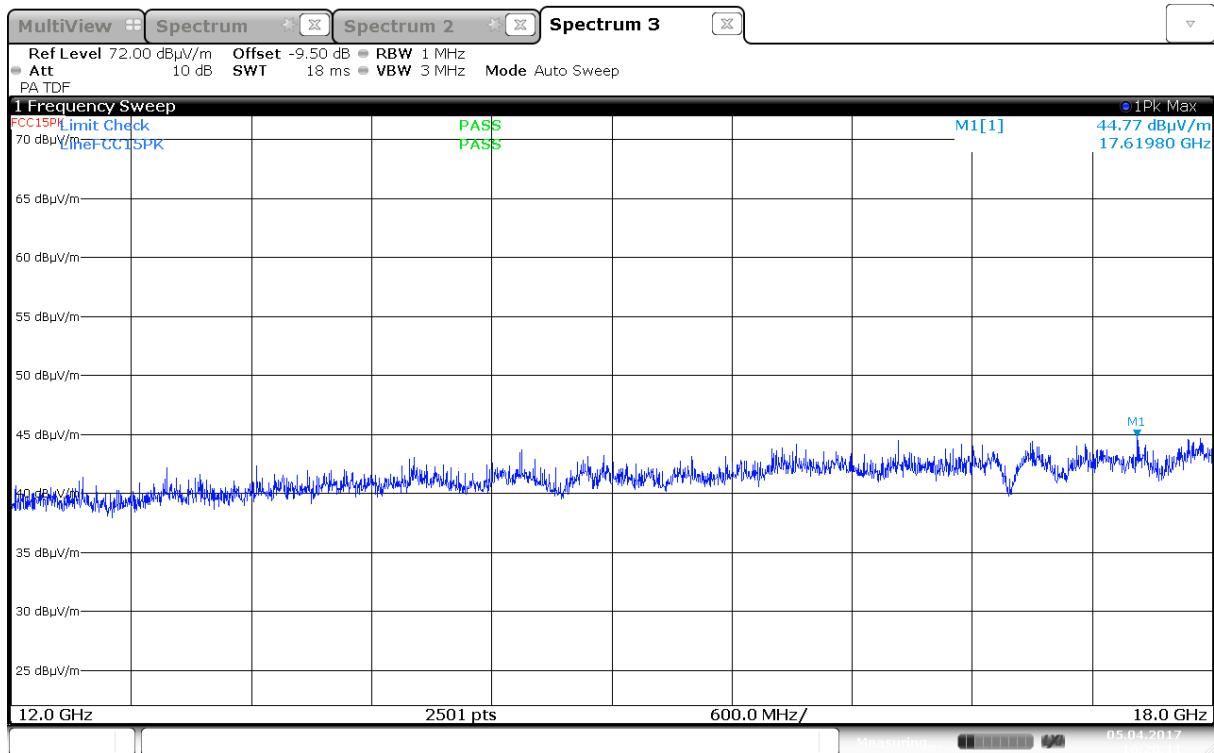
Date: 18.APR.2017 16:13:48

Radiated emissions, 8000 -12000MHz, HP, 2441MHz, Ant 2, @1m

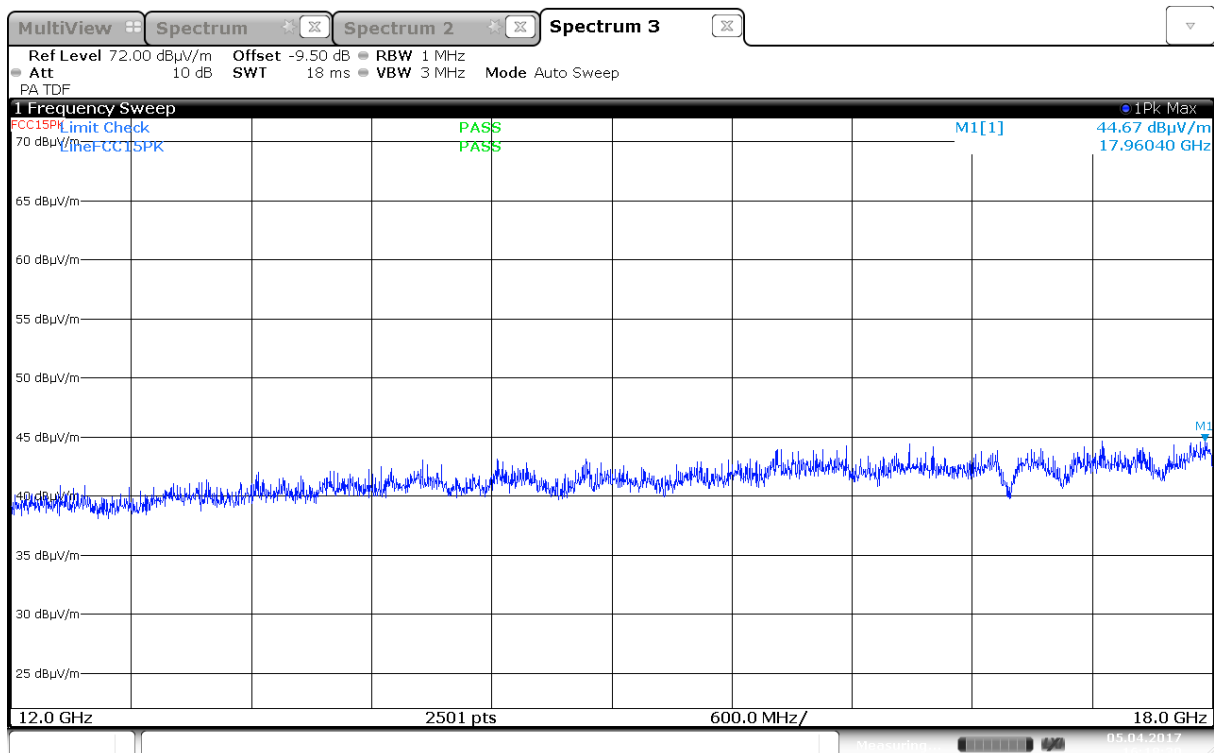


Date: 18.APR.2017 16:11:58

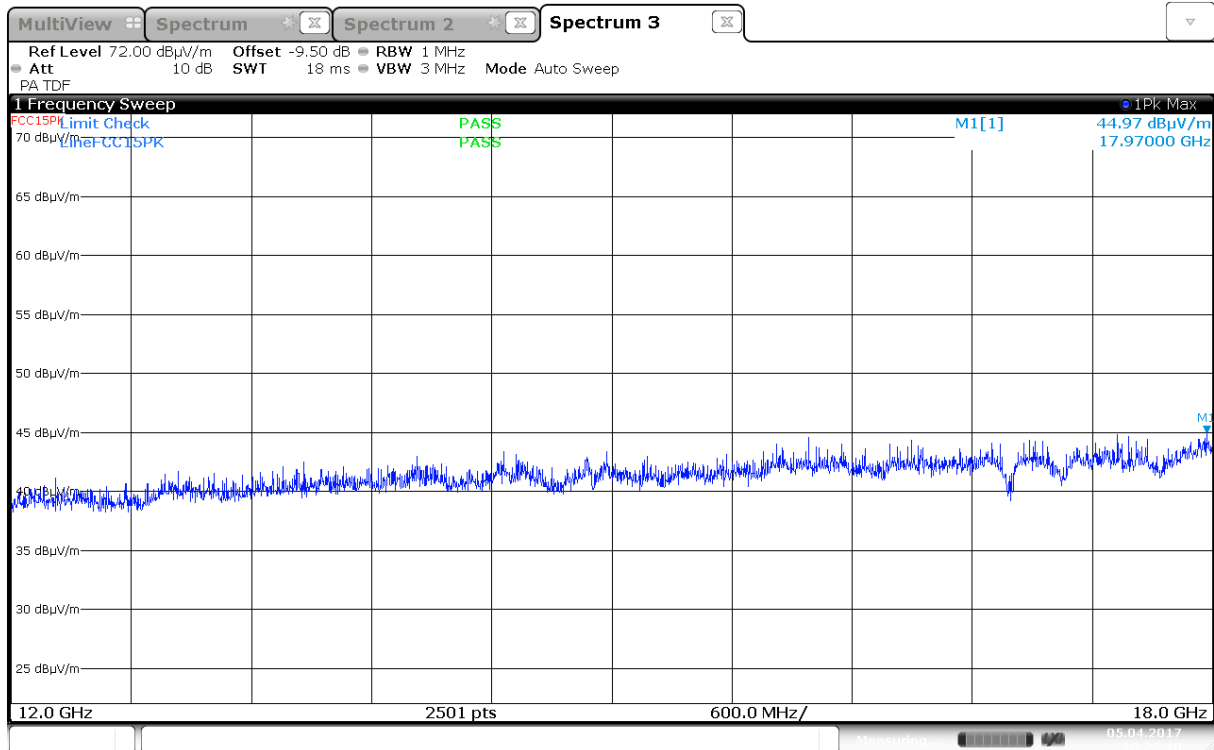
Radiated emissions, 8000 -12000MHz, VP, 2441MHz, Ant 2, @1m



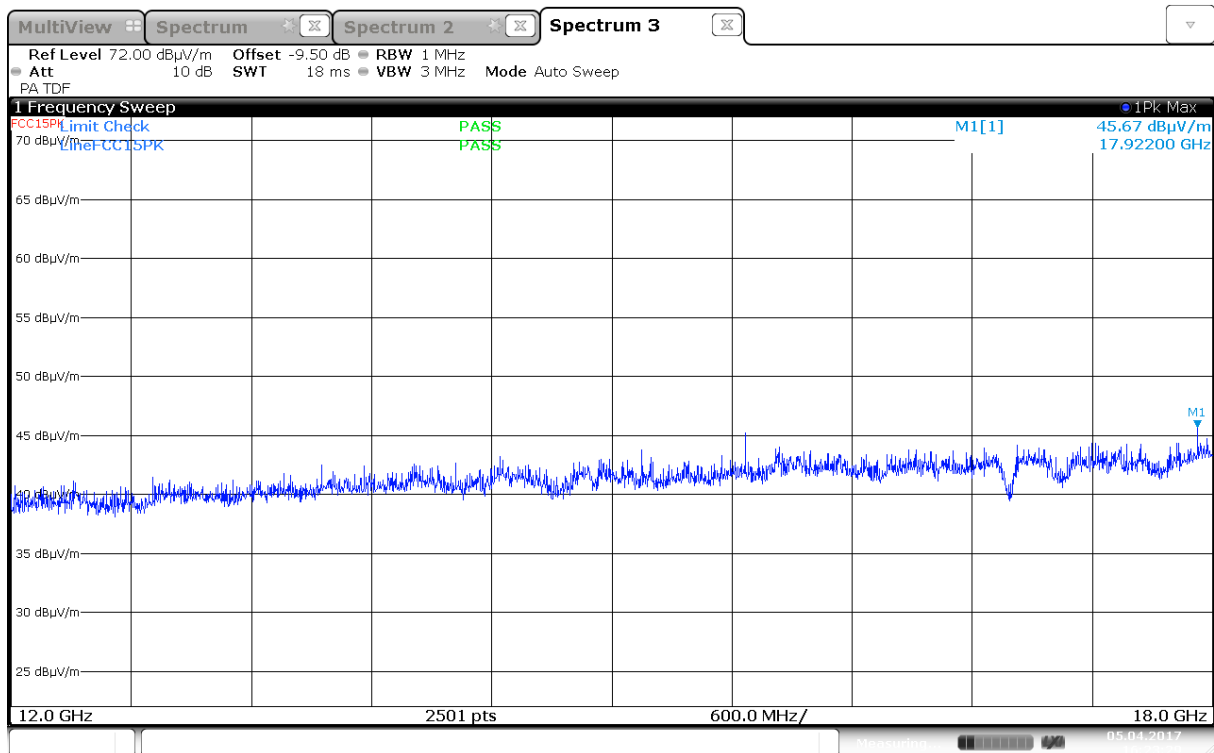
Radiated emissions, 12000 -18000MHz, HP, 2441MHz, Ant 1, @1m



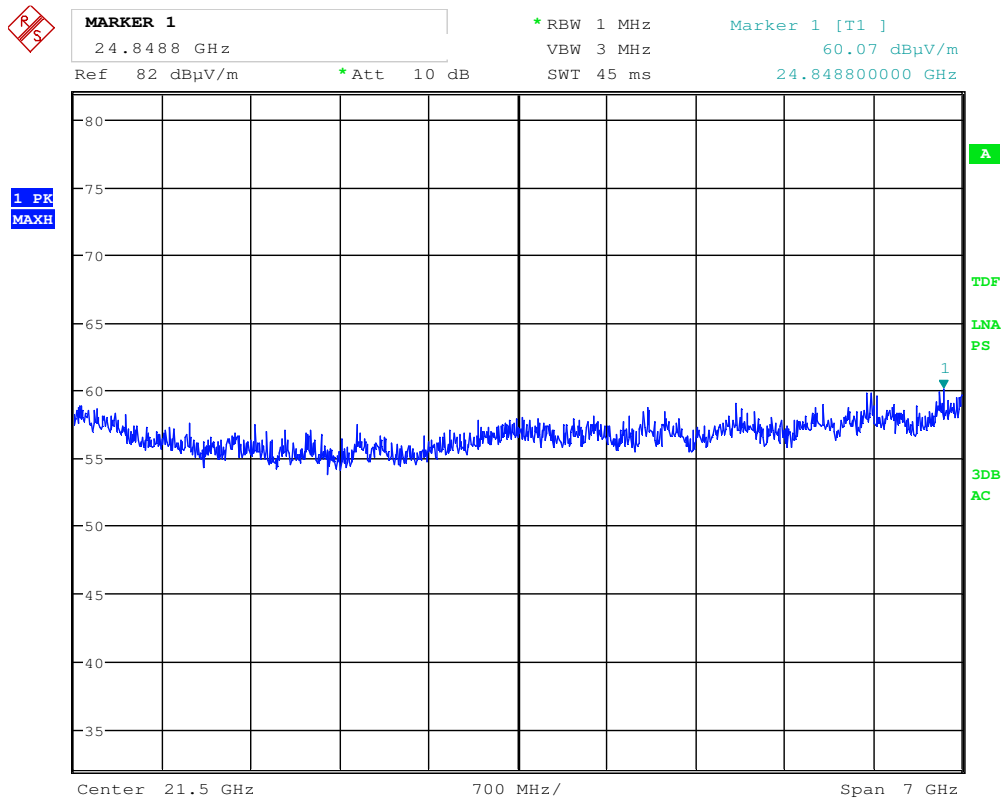
Radiated emissions, 12000 -18000MHz, VP, 2441MHz, Ant 1, @1m



Radiated emissions, 12000 -18000MHz, HP, 2441MHz, Ant 2, @1m



Radiated emissions, 12000 -18000MHz, VP, 2441MHz, Ant 2, @1m



Date: 19.APR.2017 15:24:58

Pre-scan, 18000 -25000 MHz, 2441MHz, Ant 1, @ approx 10cm



MARKER 1

24.8488 GHz

* RBW 1 MHz

Marker 1 [T1]

VBW 3 MHz

59.91 dBμV/m

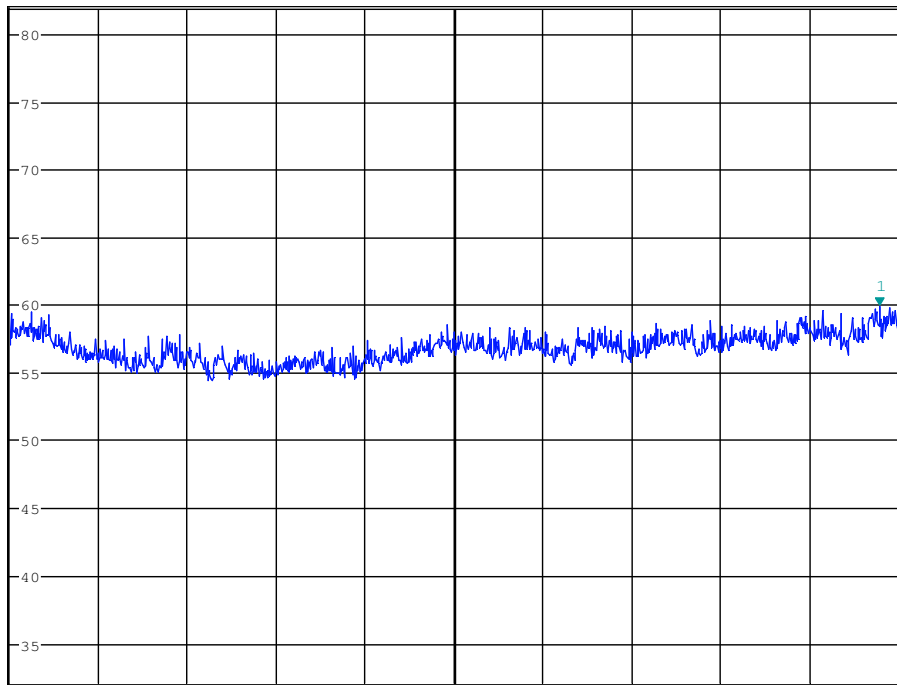
Ref 82 dBμV/m

* Att 10 dB

SWT 45 ms

24.848800000 GHz

1 PK
MAXH



A

TDF

LNA

PS

1

3DB

AC

Center 21.5 GHz

700 MHz/

Span 7 GHz

Date: 19.APR.2017 15:26:40

Pre-scan, 18000 -25000 MHz, 2441MHz, Ant 2, @ approx 10cm

3.10 Power Spectral Density (PSD)

FCC part 15.247(e)

Test Results: Passed

Measured and Calculated Data:

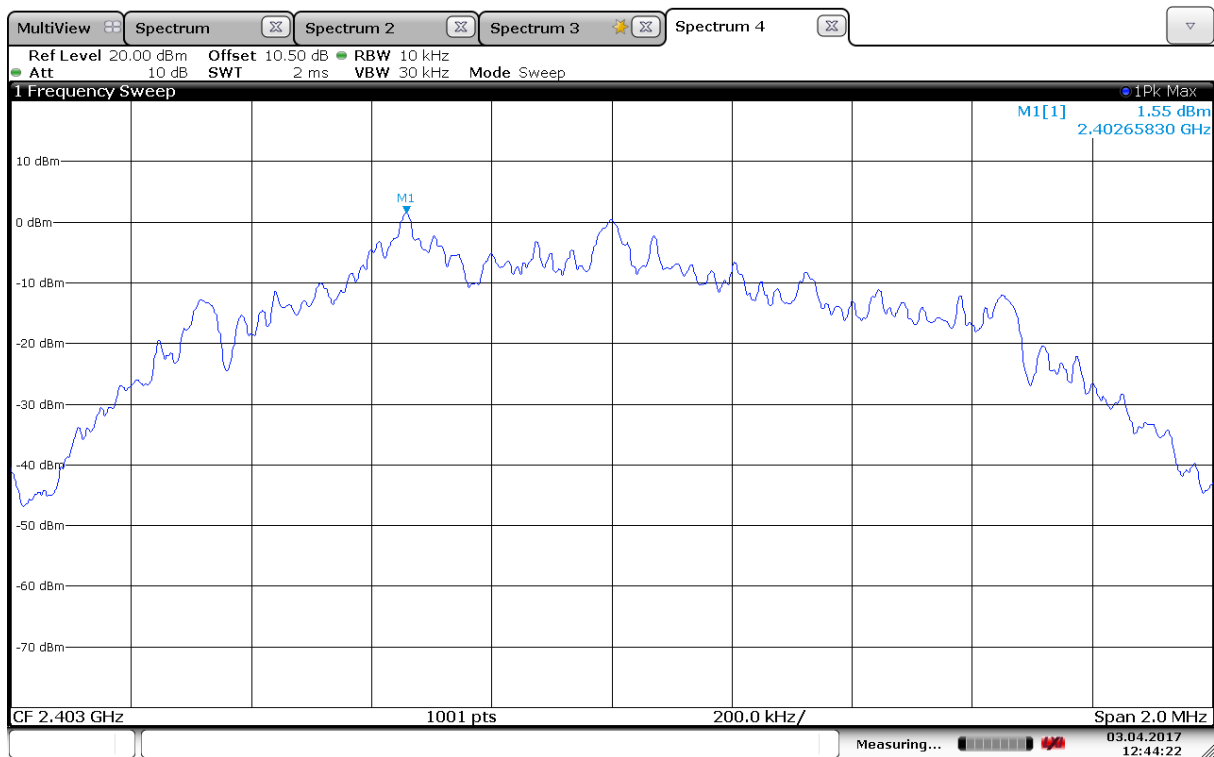
The measurement procedures PKPSD described in ANSI C63.10-2013 was used.

Carrier Frequency	2402 MHz	2440 MHz	2480 Mhz
Measured value (dBm)	-3.7	-4.3	-4.4

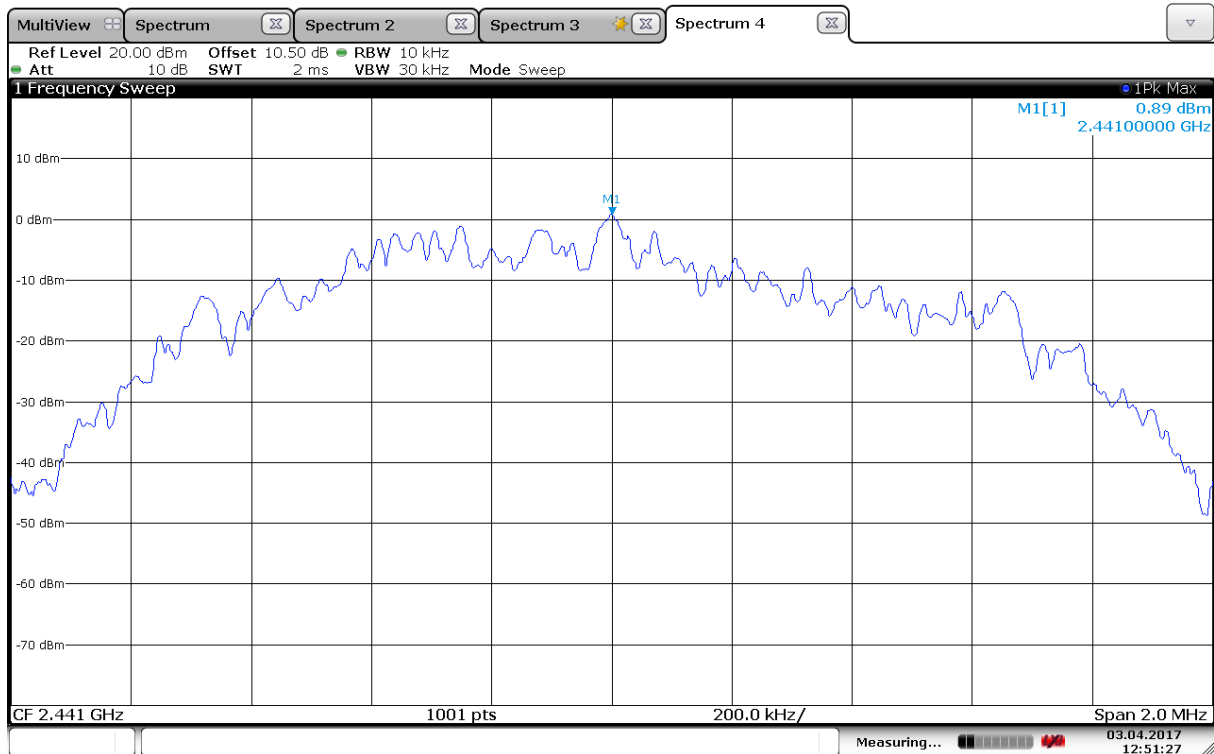
The measured values with 10kHz RBW are corrected by a Bandwidth Correction Factor of -5.2 dB.

Requirements:

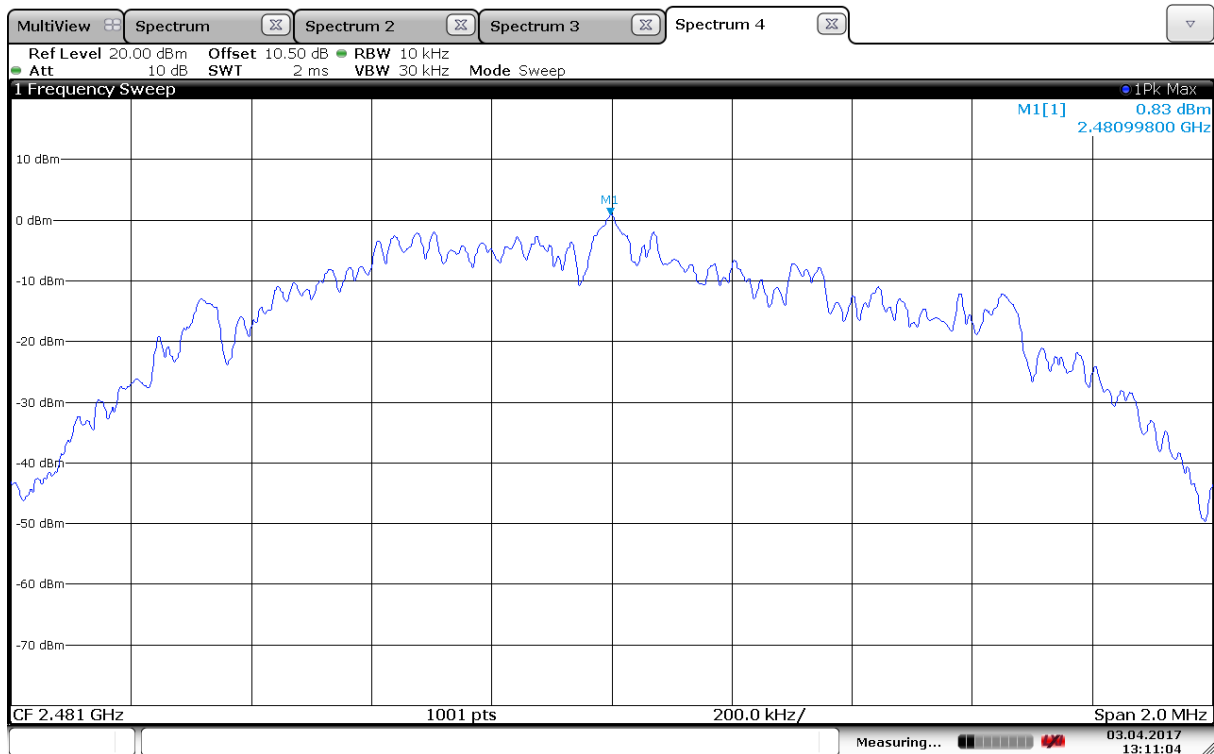
The Power Spectral Density of a Digital Transmission System shall be no greater than +8 dBm in any 3 kHz band



PSD, 2403MHz



PSD, 2441MHz



PSD, 2481MHz

4 Measurement Uncertainty

Measurement Uncertainty Values		
Test Item		Uncertainty
Output Power		±0.5 dB
Power Spectral Density		±0.5 dB
Out of Band Emissions, Conducted	< 3.6 GHz	±0.6 dB
	> 3.6 GHz	±0.9 dB
Spurious Emissions, Radiated	< 1 GHz	±2.5 dB
	> 1 GHz	±2.2 dB
Emission Bandwidth		±4 %
Power Line Conducted Emissions		+2.9 / -4.1 dB
Spectrum Mask Measurements	Frequency	±5 %
	Amplitude	±1.0 dB
Frequency Error		±0.6 ppm
Temperature Uncertainty		±1 °C

All uncertainty values are expanded standard uncertainty to give a confidence level of 95%, based on coverage factor k=2

5 LIST OF TEST EQUIPMENT

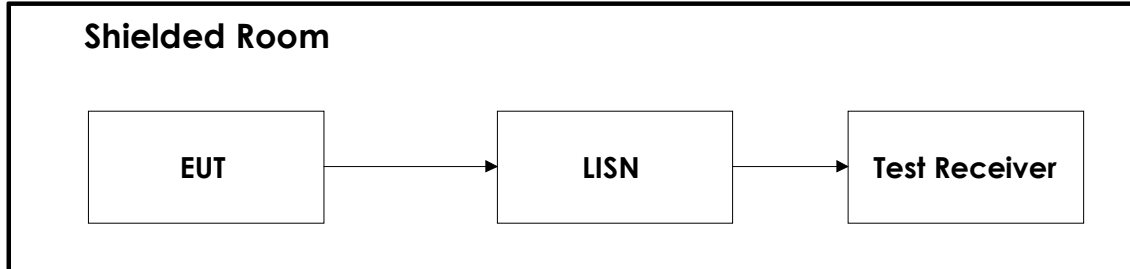
To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	FSW26	Spectrum Analyzer	Rohde & Schwarz	LR 1640	2017.01	2018.01
2	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2016.12	2017.12
3	6810.17B	Attenuator	Suhner	LR 1669	Cal b4 use	
4	6HC3000/18000	Highpass Filter	Trilithic	LR 1614	Cal b4 use	
5	317	Pre-amplifier	Sonoma Instrument	LR 1687	2016.05	2017.05
6	8449A	Pre-amplifier	Hewlett Packard	LR 1322	2016.10	2017.10
7	6812B	AC Power Source	Agilent	LR1515	Cal b4 use	
8	3115	Horn Antenna	EMCO	LR 1330	2016.10	2021.10
9	PM7320X	Antenna Horn	Sivers Lab	LR 102	2009.01	2019.01
10	DBF-520-20	Antenna Horn	Systron Donner	LR 100	2009.01	2019.01
11	638	Antenna Horn	Narda	LR 098	2010.06	2020.06
12	HK116	Biconical Antenna	Rohde & Schwarz	LR 1260	2013.12	2018.12
13	HL223	LogPeriod Antenna	Rohde & Schwarz	LR 1261	2013.12	2018.12
14	Model 87V	Multimeter	Fluke	LR 1597	2016.10	2017.10
15	ESCI3	Measuring receiver	Rohde & Schwarz	N-4259	2015.08	2017.08
16	ESH3-Z2	Pulse Limiter	Rohde & Schwarz	LR 1074	2016.05	2017.05
17	ESH3-Z5	Two-Line V-Network	Rohde & Schwarz	N-3403	2015.07	2017.07

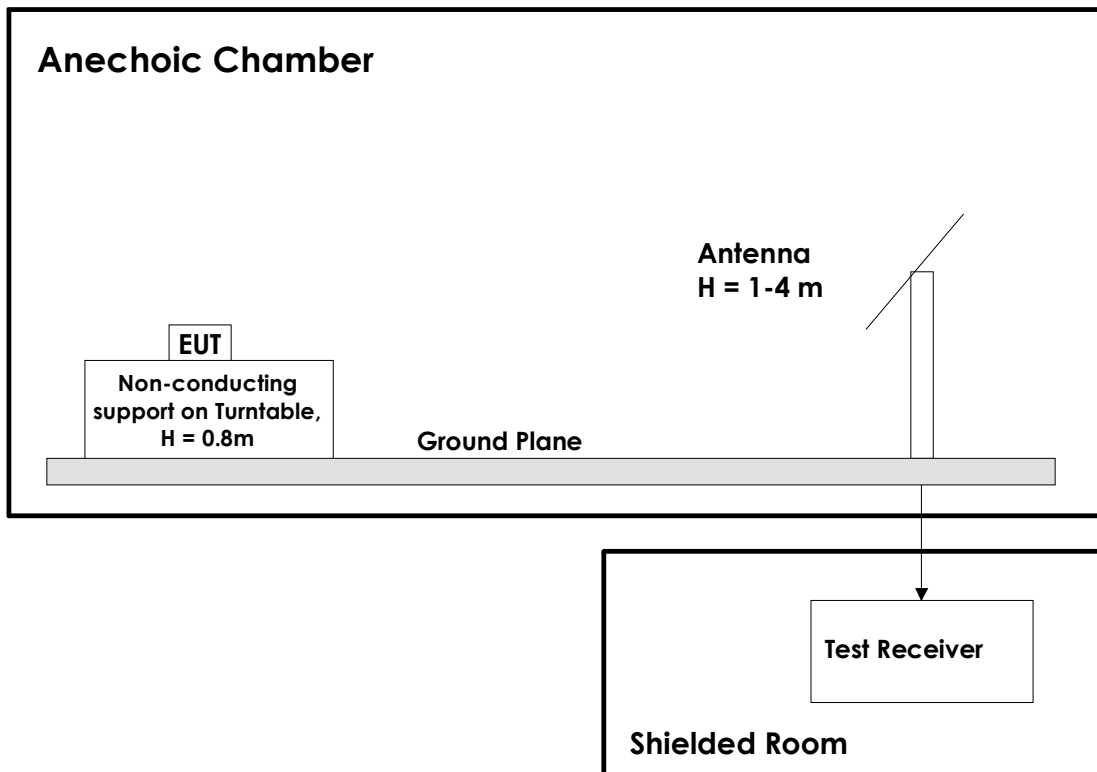
Test Software List			
Description	Manufacturer	Model	Version
EMC Software for Conducted tests	Rohde & Schwarz	EMC32	9.26.00

6 BLOCK DIAGRAM

6.1 Power Line Conducted Emission



6.2 Test Site Radiated Emission



Measurements at 1GHz and above were performed with turntable height 1.5m and with the ground plane covered by absorbers.

Revision history

Version	Date	Comment	Sign
1.0	2017.04.25	First Edition	FS
1.1	2017.06.28	Added comments	FS