

Prüfbericht-Nr.: Test Report No.:	50087609 003	Auftrags-Nr.: Order No.:	164093954	Seite 1 von 51 Page 1 of 51
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	24.05.2017	
Auftraggeber: Client:	Paralenz Group ApS. Refshalevej 163a ST.MF, Copenhagen K, 1432 Denmark			
Prüfgegenstand: Test item:	DIVE CAMERA			
Bezeichnung / Typ-Nr.: Identification / Type No.:	PDC-1			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017 CFR47 FCC Part15: Subpart C Section 15.207 RSS-GEN Issue 4 November 2014 CFR47 FCC Part15: Subpart C Section 15.209			
Wareneingangsdatum: Date of receipt:	24.05.2017	Refer to Photo Document		
Prüfmuster-Nr.: Test sample No.:	A000552029-0001 A000552029-0002			
Prüfzeitraum: Testing period:	24.05.2017 - 10.07.2017			
Ort der Prüfung: Place of testing:	EMTEK (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	PASS			
geprüft von / tested by:		kontrolliert von / reviewed by:		
11.07.2017 Hardy Suo / Assistant Project Manager		11.07.2017 Sam Lin / Technical Certifier		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
Sonstiges / Other:				
FCC ID: 2AL8V-PDC1A				
IC: 22808-PDC1A				
HVIN: PDC-1				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH FOR BT CLASSIC***RESULT: Pass***5.1.4 6dB BANDWIDTH AND 99% BANDWIDTH FOR BLE***RESULT: Pass***5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH***RESULT: Pass***5.1.6 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.7 SPURIOUS EMISSION***RESULT: Pass***5.1.8 FREQUENCY SEPARATION***RESULT: Pass***5.1.9 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.10 TIME OF OCCUPANCY***RESULT: Pass***5.1.11 CONDUCTED EMISSIONS***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendixes:
Appendix A: Test data.

2. Test Sites

2.1 Test Facilities

EMTEK (Shenzhen) Co., Ltd.

(FCC Registration No.: 709623)

(Test site Industry Canada No.: 4480A-2)

Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2018-05-20
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2018-05-20
Cable	H+B	3M SF104-26.5	295838/4	2018-05-21
Cable	H+B	6M SF104-26.5	295840/4	2018-05-21
Pre-Amplifier	HP	8447F	2944A07999	2018-05-20
Bilog Antenna	Schwarzbeck	VULB9163	142	2018-05-21
Cable	Schwarzbeck	AK9513	ACRX1	2018-05-20
Cable	Rosenberger	N/A	FP2RX2	2018-05-20
Cable	Schwarzbeck	AK9513	CRPX1	2018-05-21
Cable	Schwarzbeck	AK9513	CRRX2	2018-05-21
Pre-Amplifier	A.H.	PAM-0126	1415261	2018-05-20
Horn Antenna	Schwarzbeck	BBHA 9120	707	2018-05-21
Pre-Amplifier	A.H.	PAM-0126	1415261	2018-05-20
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2018-05-20
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2018-05-20
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2018-05-20
Horn Antenna	AHS/USA	SAS-573	184	2018-05-20
Cable	H+B	0.5M SF104- 26.5	289147/4	2018-05-20
Cable	H+B	3M SF104-26.5	295838/4	2018-05-20
Cable	H+B	6M SF104-26.5	295840/4	2018-05-20
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2018-05-21
Vector Signal Generator	Agilent	N5182B	My53050553	2018-05-20
Analog Signal Generator	Agilent	N5171B	My53050878	2018-05-20
Signal Analyzer	Agilent	N9010A	My53470879	2018-05-21
Power Meter	Agilent	PS-X10-100	N/A	2018-05-21
Temp. / Humidity Chamber	Kingson	THS-M1	242	2018-05-20
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCI	26115-010- 0027	2018-05-20
L.I.S.N.	Rohde & Schwarz	ENV216	101161	2018-05-20
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	2018-05-21
Voltage Probe	Rohde & Schwarz	ESH2-Z3	100122	2018-05-21

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

EMTEK (Shenzhen) Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a DIVE CAMERA which that supports Bluetooth classic, Bluetooth BLE and IEEE 802.11 b/g/n protocols.

Note: This report is for Bluetooth classic and Bluetooth BLE only.

For details refer to user manual and circuit diagram.

3.2 Ratings and System Details

Table 3: Technical Specification

Technical Specification	Value
Product Name	DIVE CAMERA
Model	PDC-1
Frequency Bandwidth	2400-2483.5MHz
Operating Frequency/Channels/Protocol	2412-2462MHz/11CH/802.11b/g/n-HT20 2402-2480MHz
Channel Spacing	1 MHz, 2MHz, 5MHz
Extreme Temperature Range	-20 ~ +55 °C
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16QAM, 64QAM) GFSK, pi/4-DQPSK, 8-DPSK
Antenna Number	1
Antenna Type	Integral antenna
Antenna Gain	2.4GHz band: 2.0dBi max
Operation Voltage	Powered by USB Type-C port 5.0Vdc or rechargeable battery (DC 3.8V, 1600mAh)

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00

7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00
12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

Table 5: RF channel and frequency of Bluetooth (Low Energy mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. Tx
 - 1. Bluetooth mode (BDR & EDR mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - 2. Bluetooth mode (Low Energy mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - B. Normal operation
 - C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Model	S/N	Note
PC	LENOVO	WB0205140E	WB06355728	--
AC/DC adapter	ME	G051B-050200B-1	--	Input: 100-240V, 50/60Hz, 0.25A; Output: 5V, 2a

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

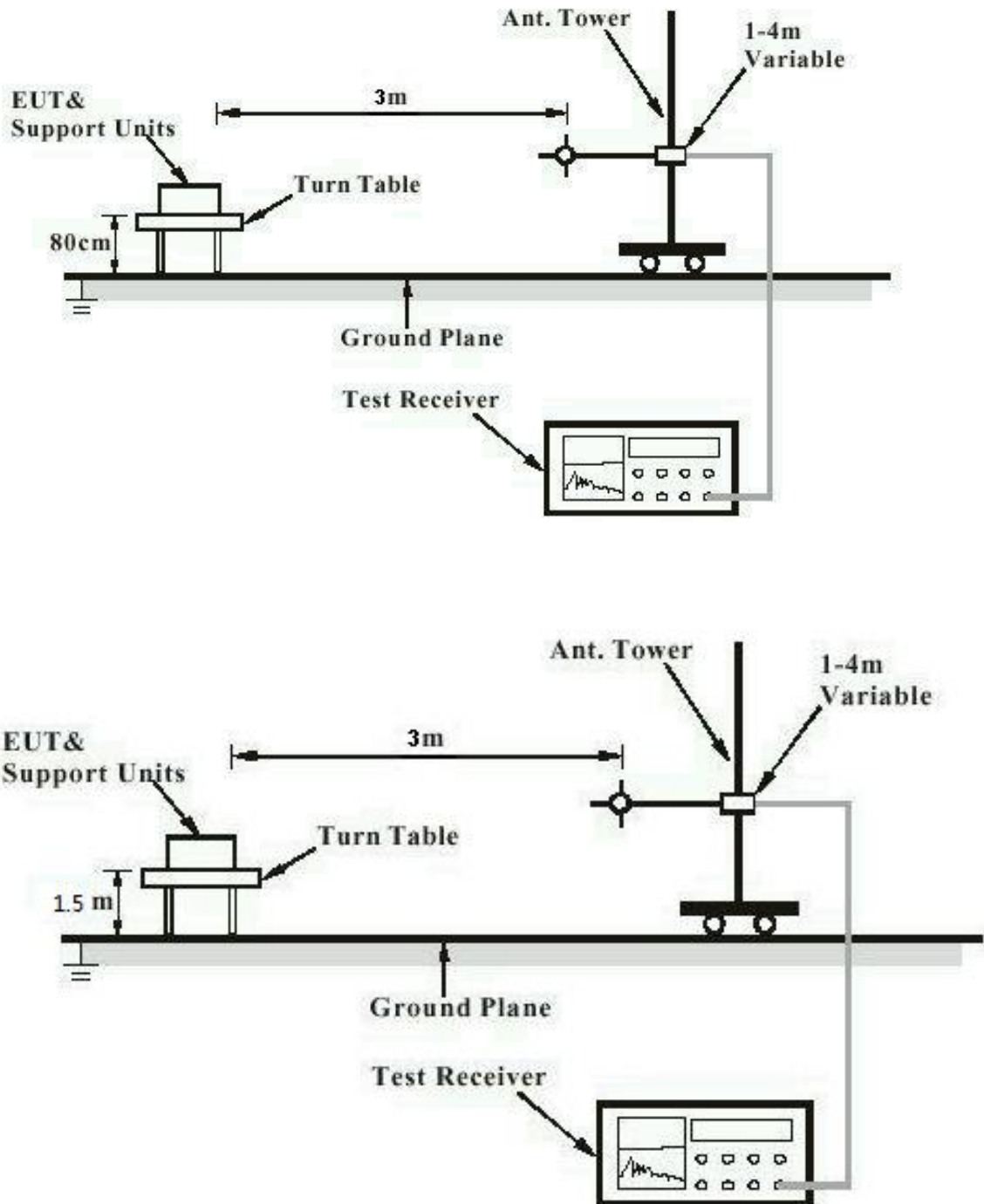


Diagram of Measurement Equipment Configuration for Conduction Measurement

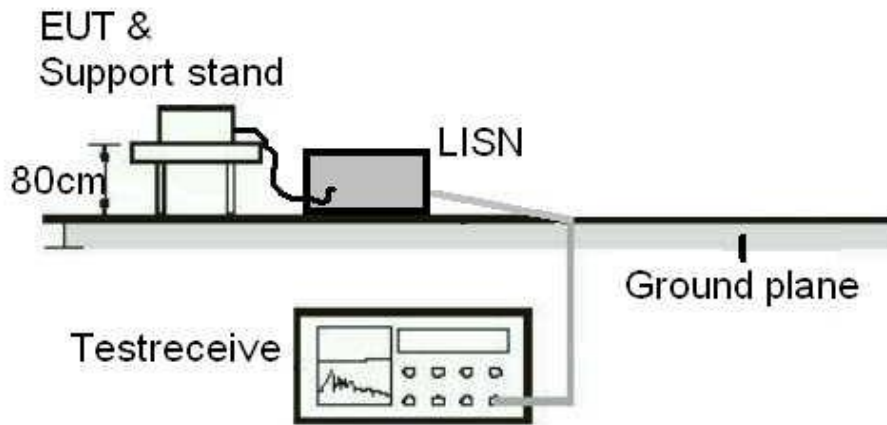
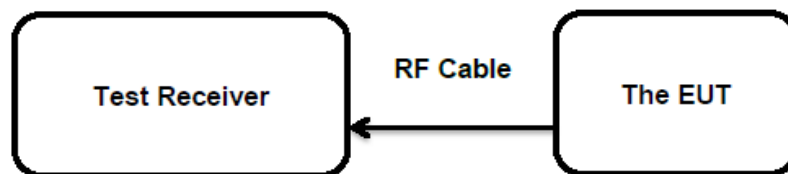


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.203
RSS-GEN Clause8.3

The EUT has an integral antenna which in accordance to section 15.203 is considered sufficient to comply with the provisions of this section. Bluetooth and 2.4GHz Wi-Fi use the same antenna and cannot transmit simultaneously.

Refer to EUT Photo for further details.

Table 8: Test result of Peak Output Power of Bluetooth (Low Energy mode)

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (mW)
		(dBm)	(mW)	
Low Channel	2402	10.894	12.286	1000
Middle Channel	2440	11.289	13.456	1000
High Channel	2480	12.147	16.395	1000

Note: the ANT gain is 2 dBi max, hence the max e.i.r.p= $12.486 \text{ dBi} + 2 \text{ dBi} = 14.486 \text{ dBi} = 28.093 \text{ mW}$ which is less than 4000 mW.

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5.1.3 20dB Bandwidth and 99% Bandwidth for BT classic

RESULT:
Pass

Date of testing : 2017-06-14
 Test standard : FCC Part 15.247(a)(1)
 : RSS-247 clause 5.1(2)
 : RSS-Gen clause 6.6
 Basic standard : ANSI C63.10: 2013
 : Clause 8 of KDB 558074 v04
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 25°C
 Relative humidity : 50%
 Atmospheric pressure : 101kPa

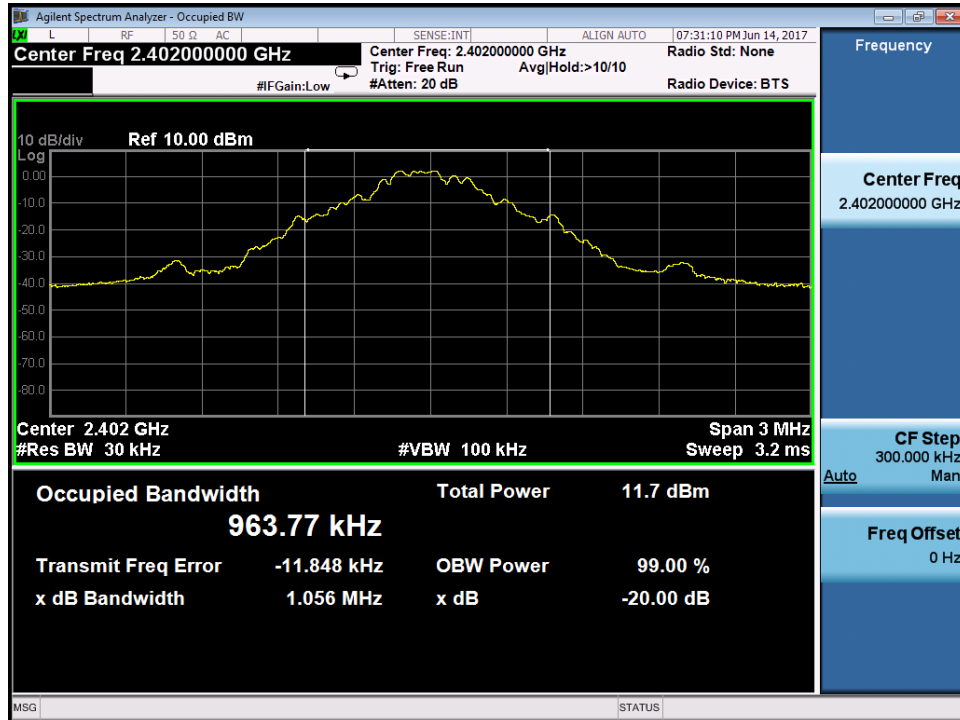
Table 9: Test result of 20dB and 99% Bandwidth of BDR mode

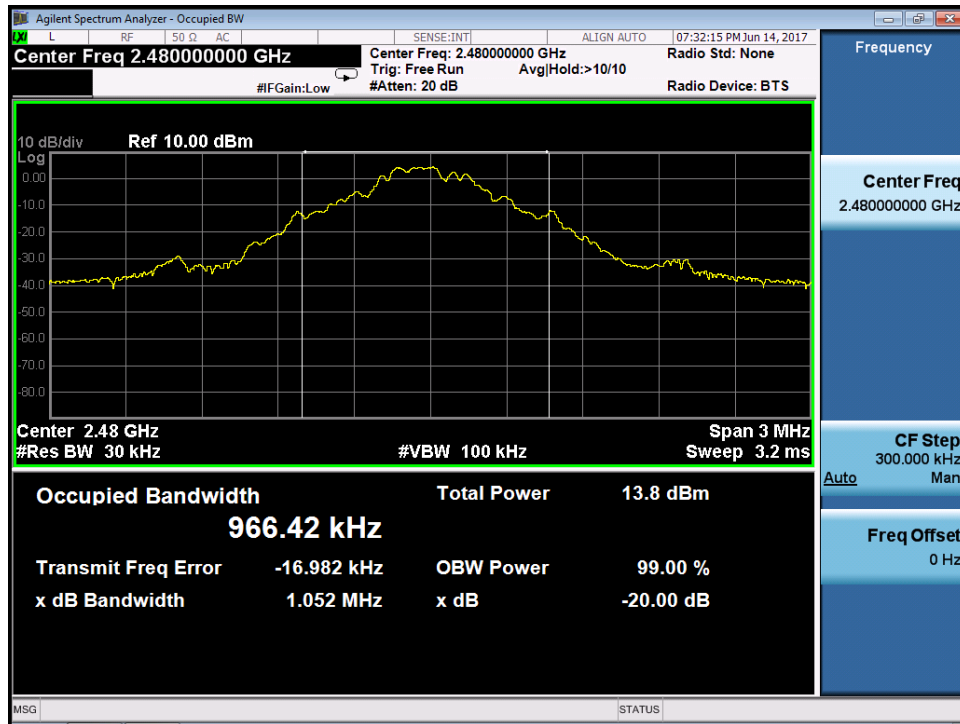
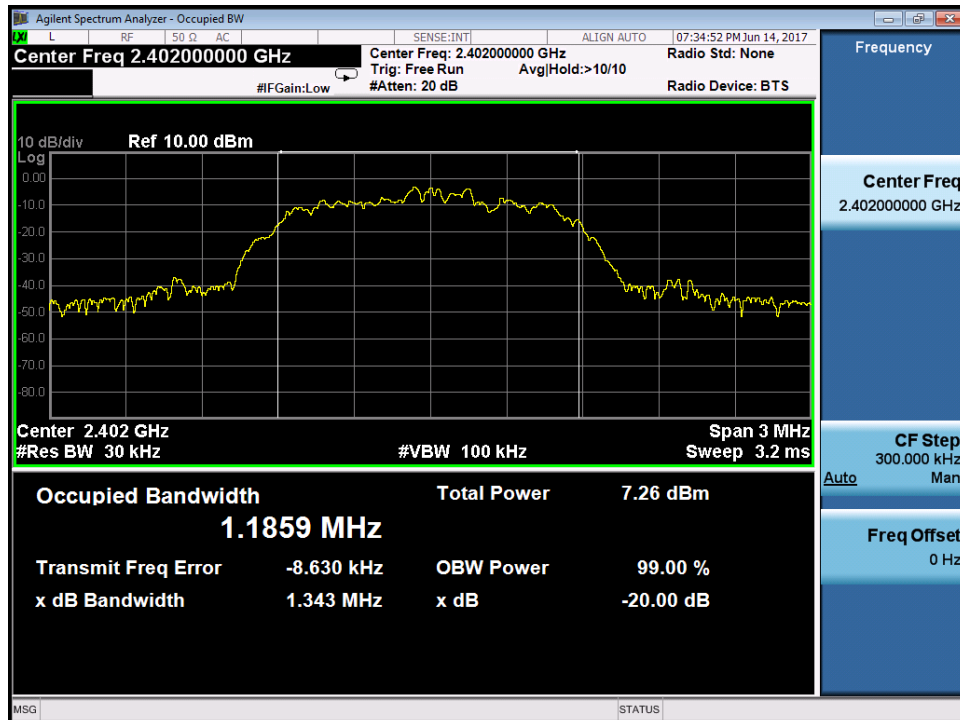
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.056	0.964
Mid Channel	2441	1.058	0.962
High Channel	2480	1.052	0.966

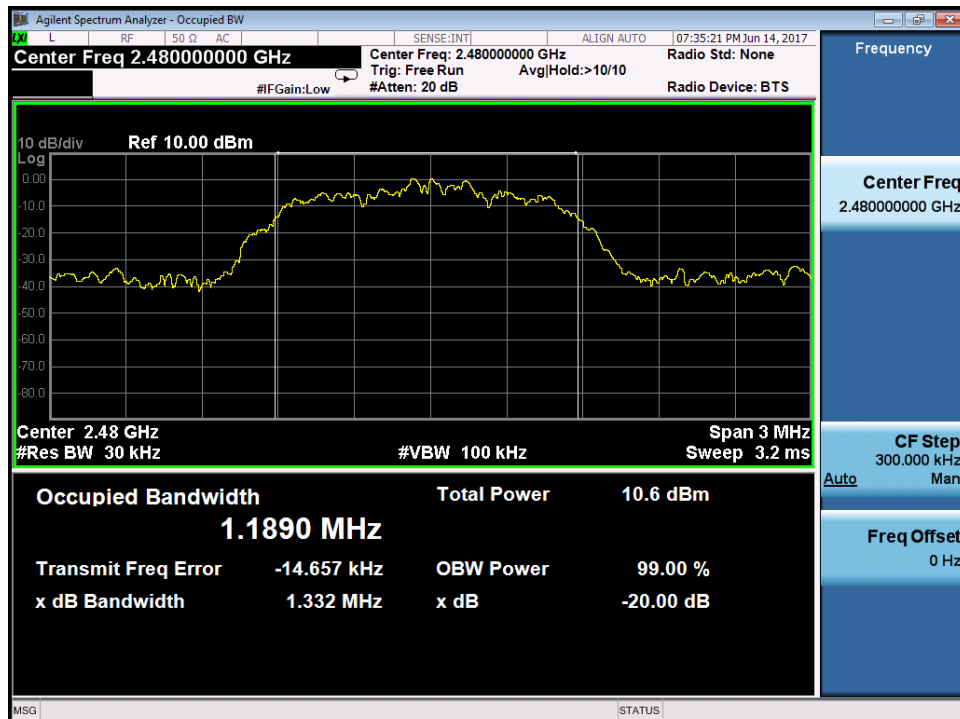
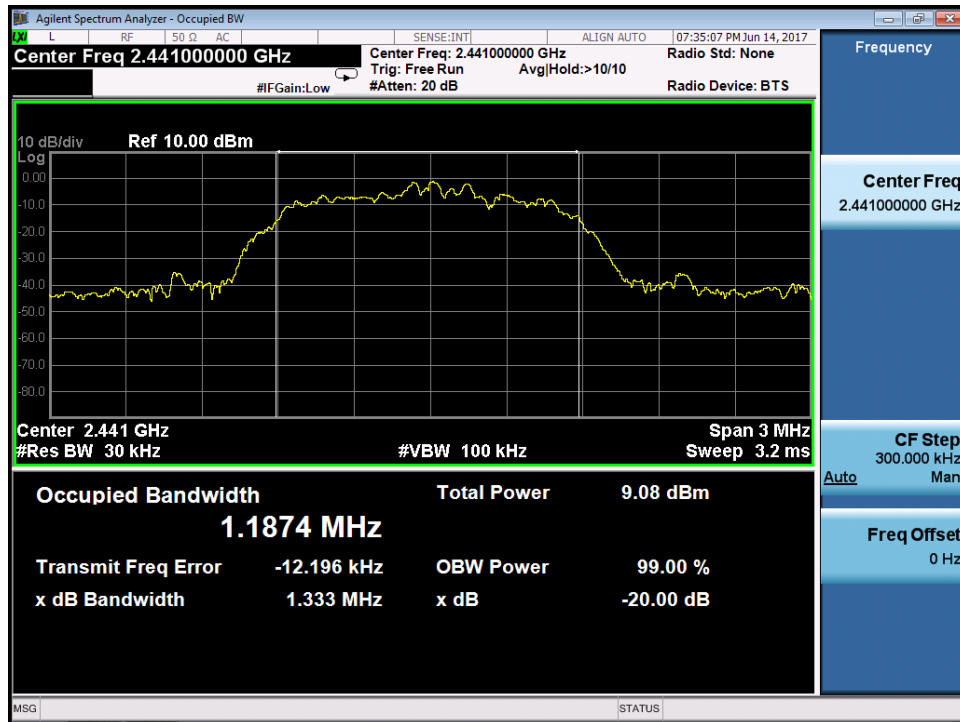
Table 10: Test result of 20dB and 99% Bandwidth of EDR mode

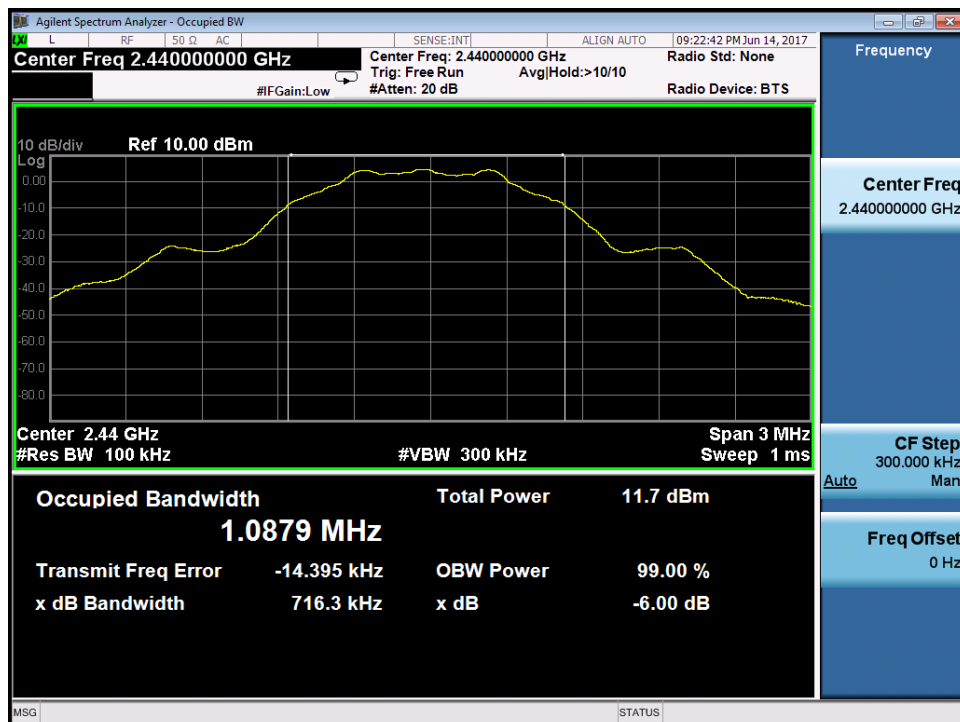
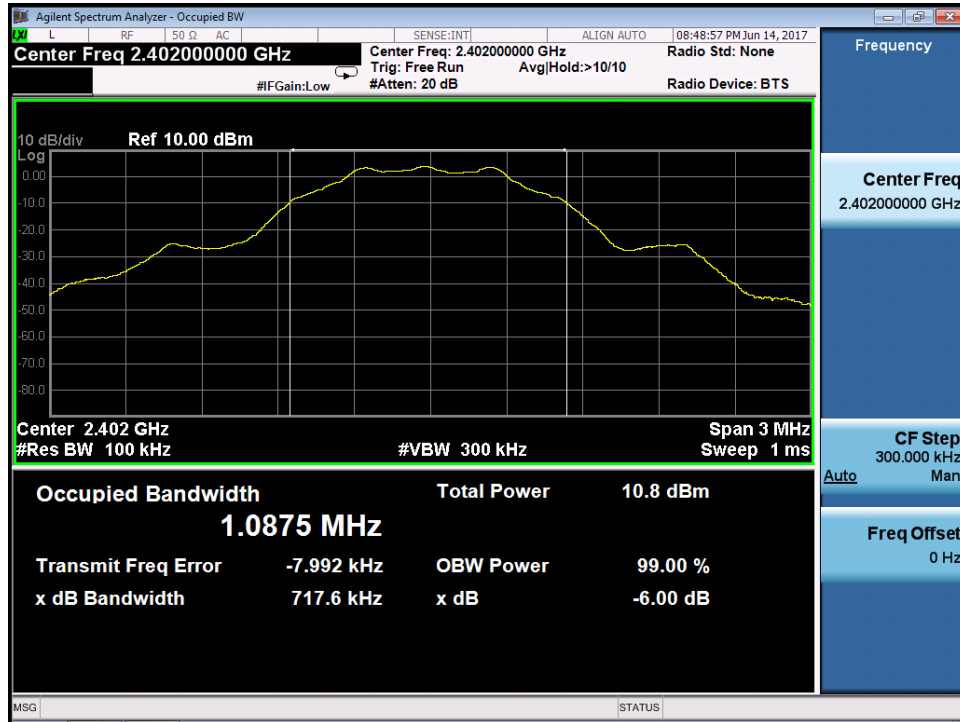
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.343	1.1859
Mid Channel	2441	1.333	1.1874
High Channel	2480	1.332	1.1890

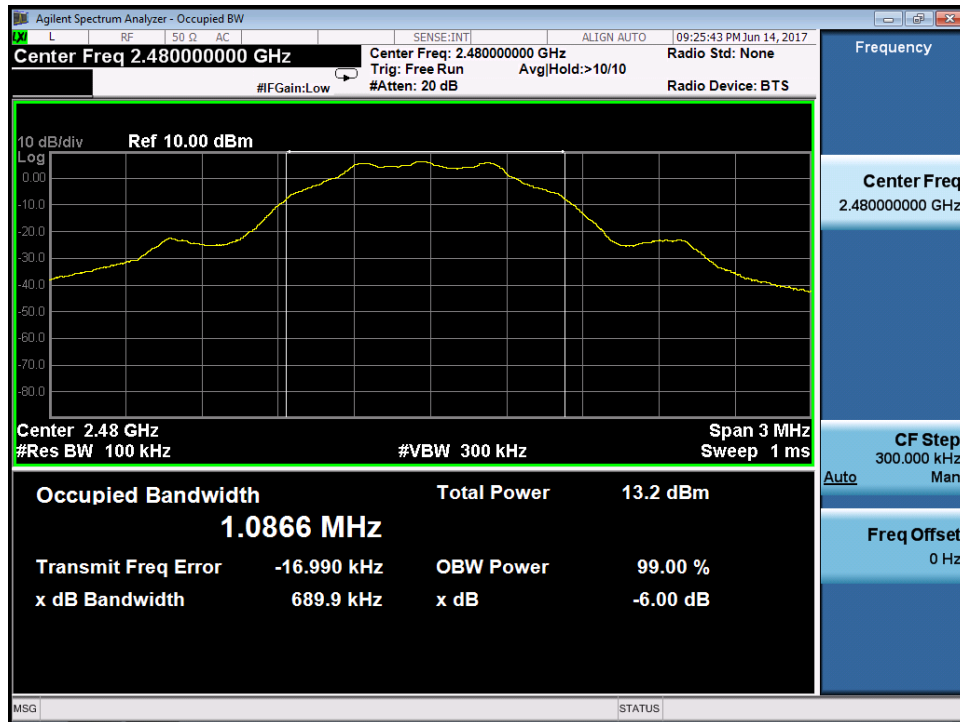
For details refer to following test plot.

Test plot of 20dB and 99% Bandwidth of BDR mode



Test plot of 20dB and 99% Bandwidth of EDR mode




Test plot of 6dB and 99% Bandwidth for BLE




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Date of testing : 2017-06-14
Test standard : FCC part 15.247(d)
RSS-247 clause 5.5
Basic standard : ANSI C63.10: 2013
Limit : 20dB (below that in the 100kHz bandwidth within
the band that contains the highest level of the
desired power)
Kind of test site : Shield room

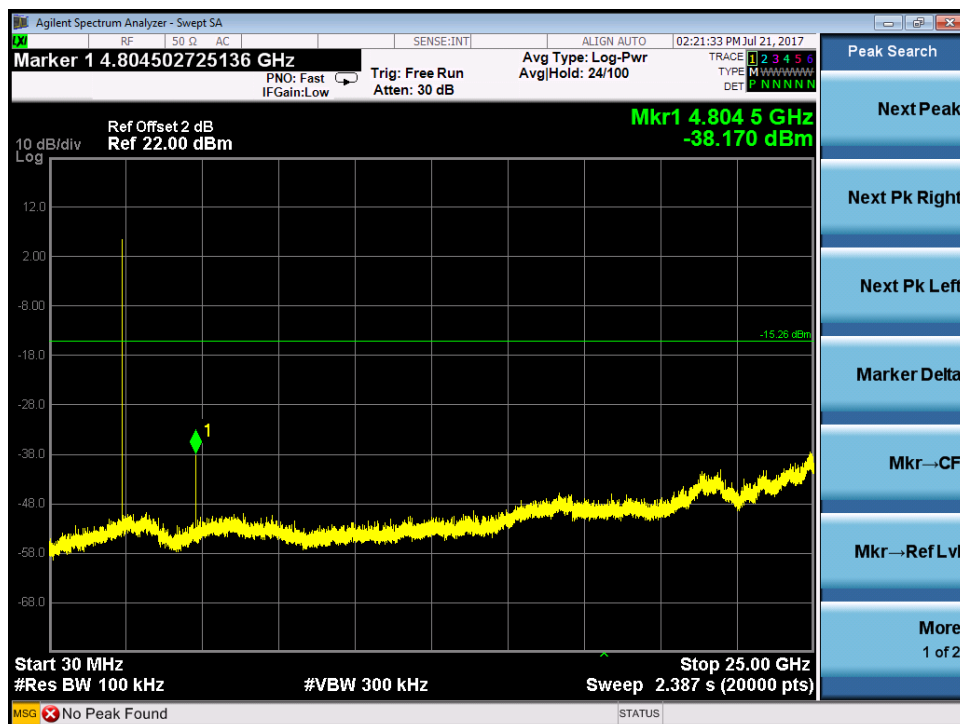
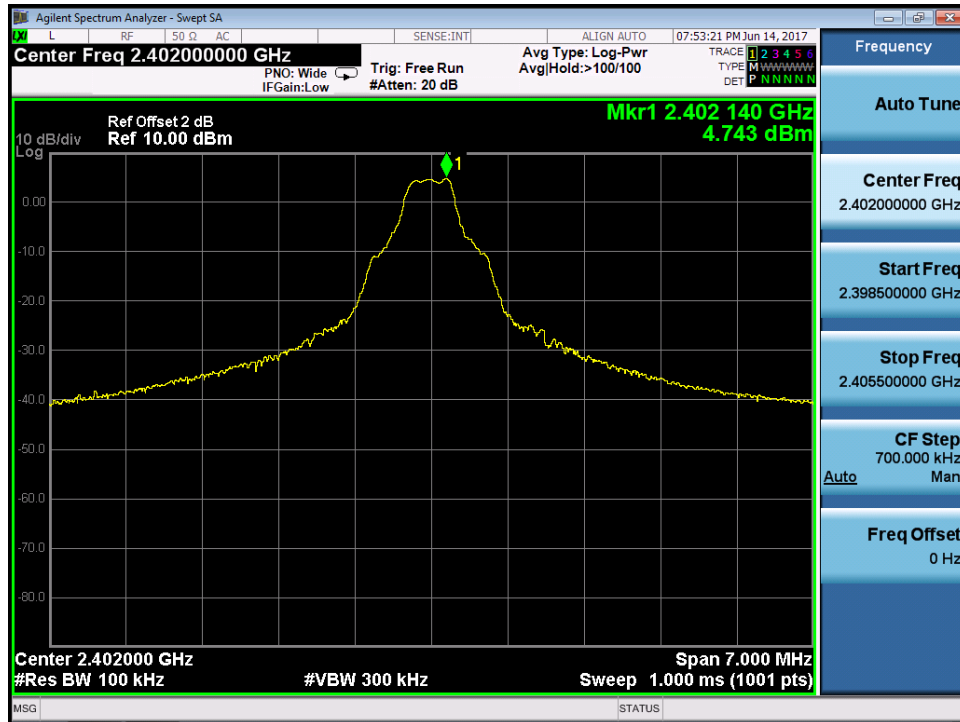
Test setup

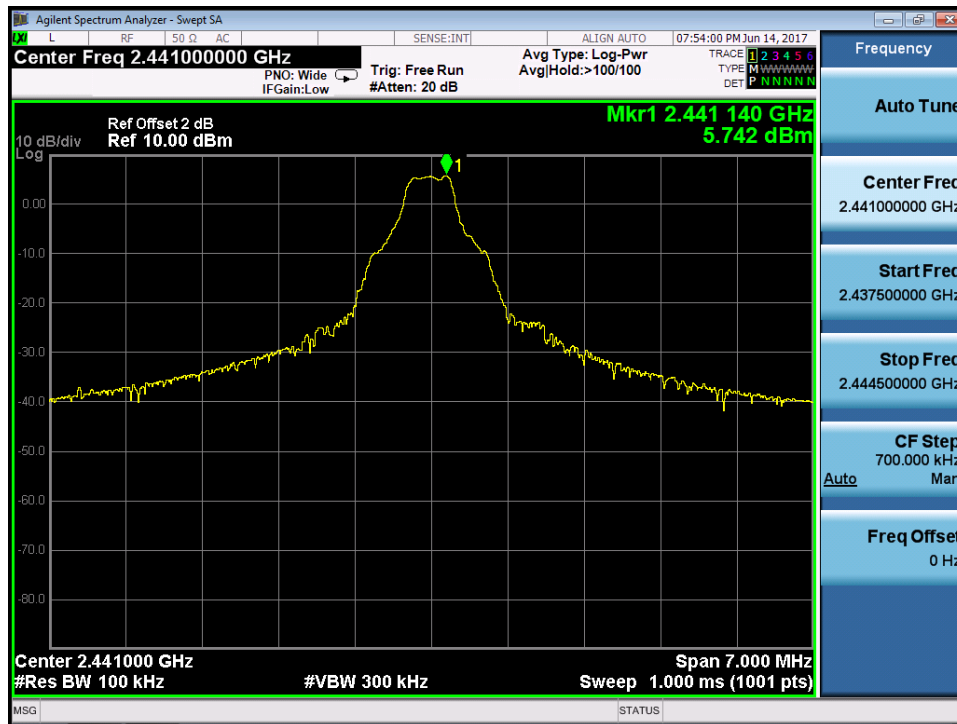
Test Channel : Low/ Middle/ High
Operation mode : A.1.a, A.2.a
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

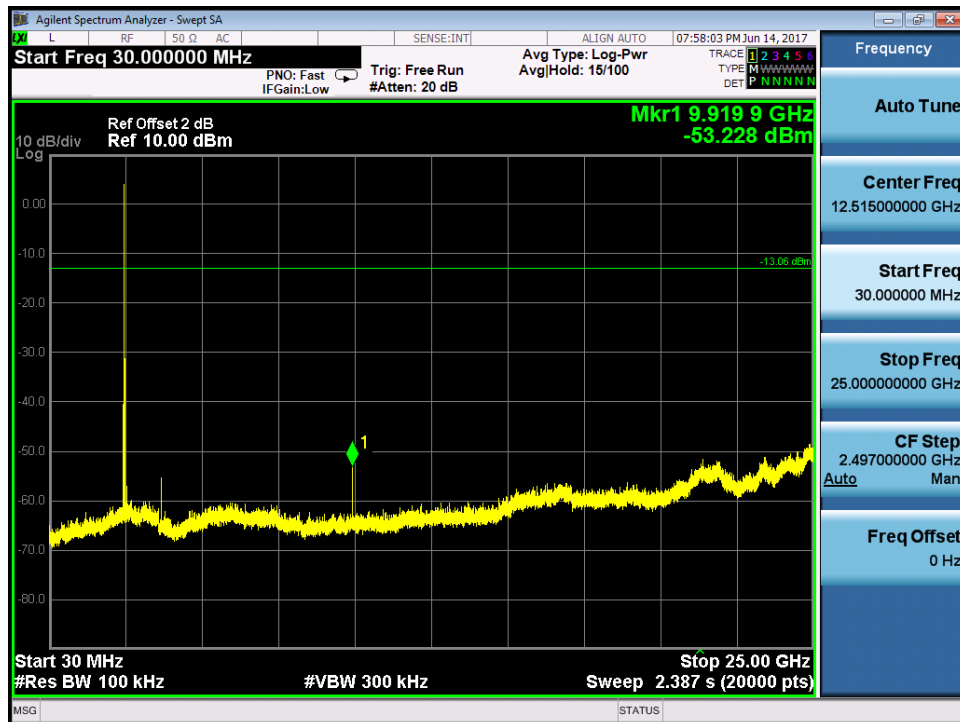
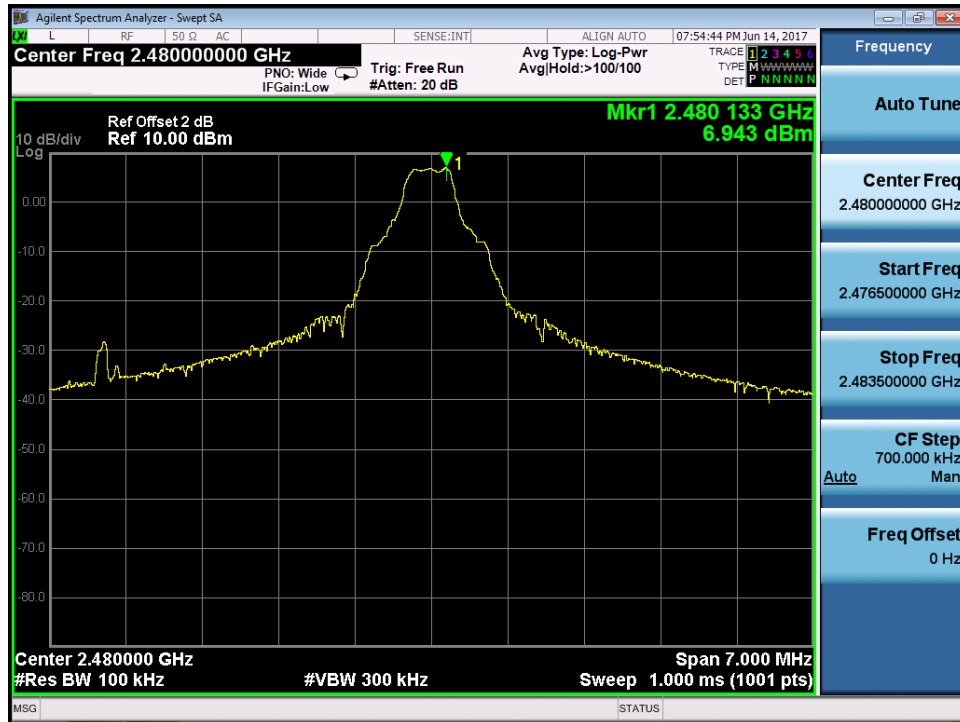
For details refer to following test plot.

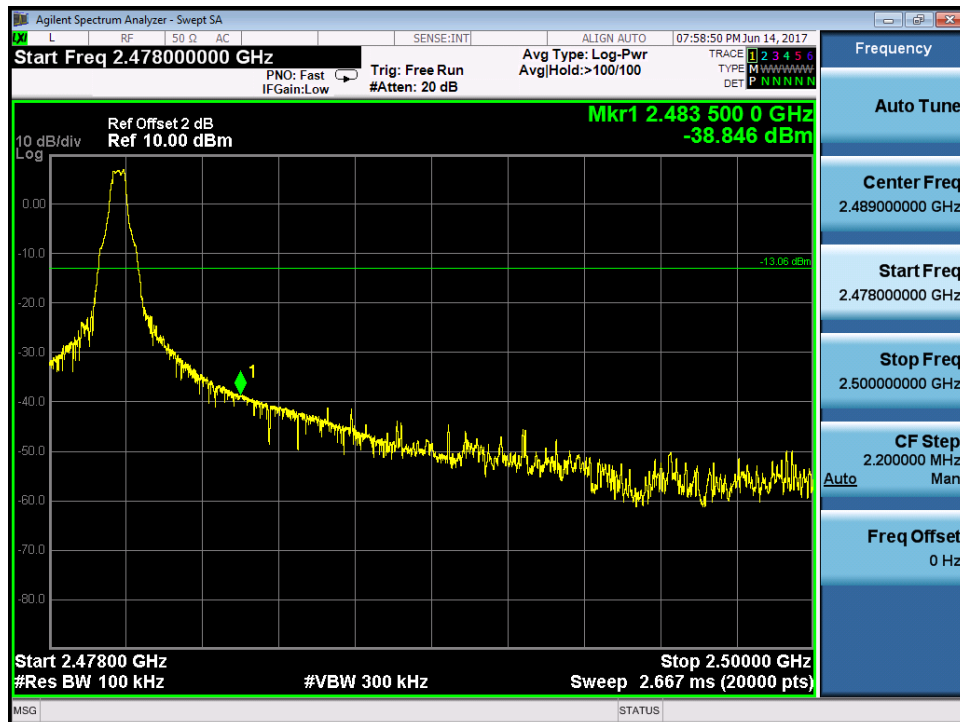
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

Low Channel



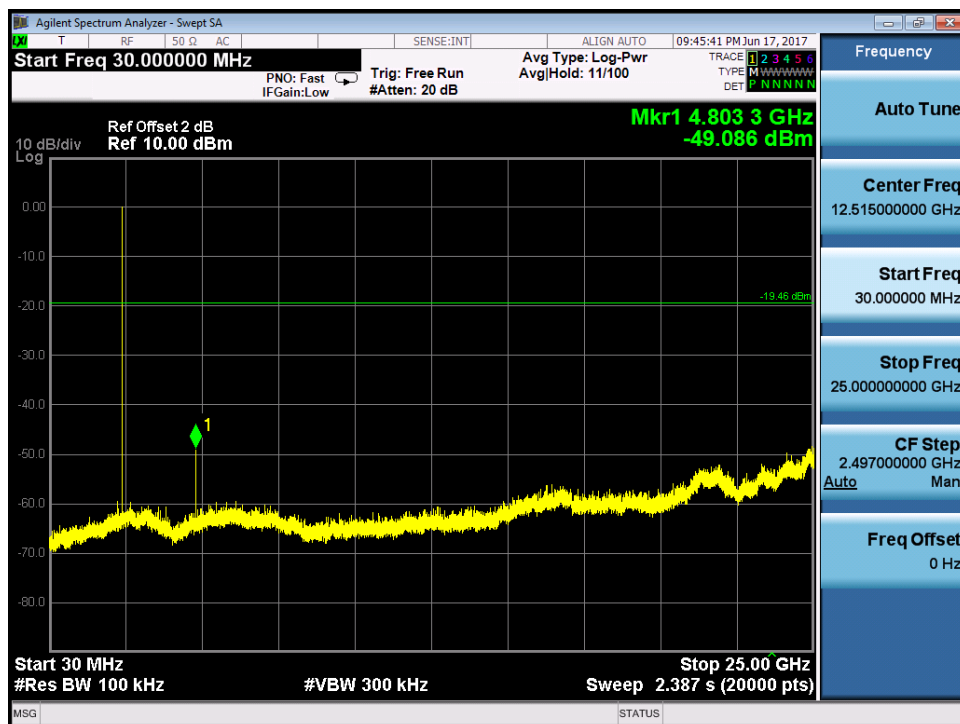
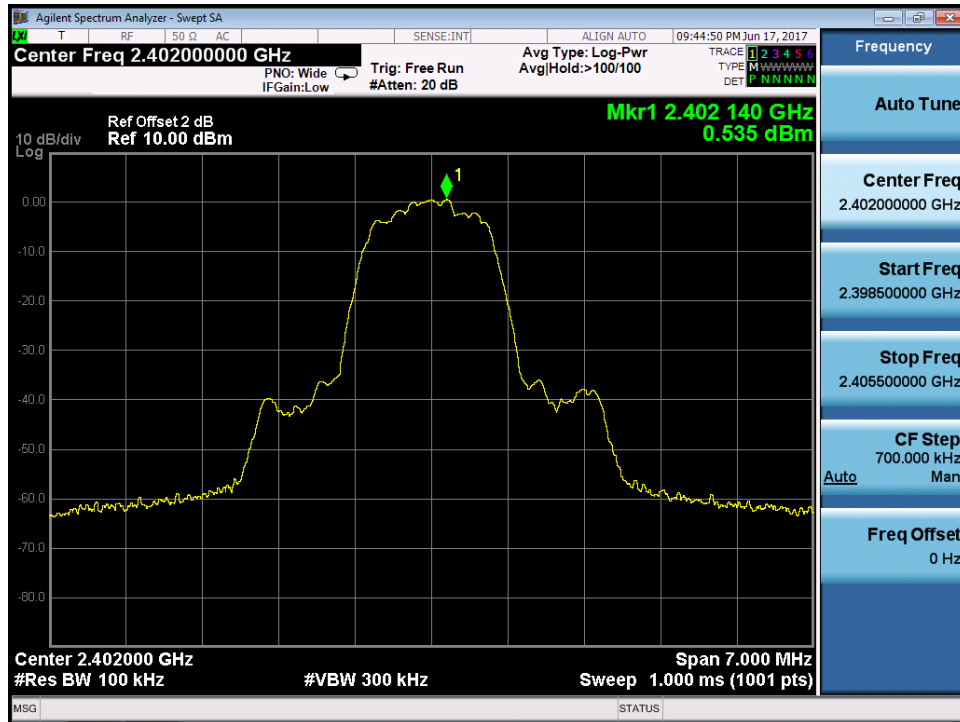
Middle Channel


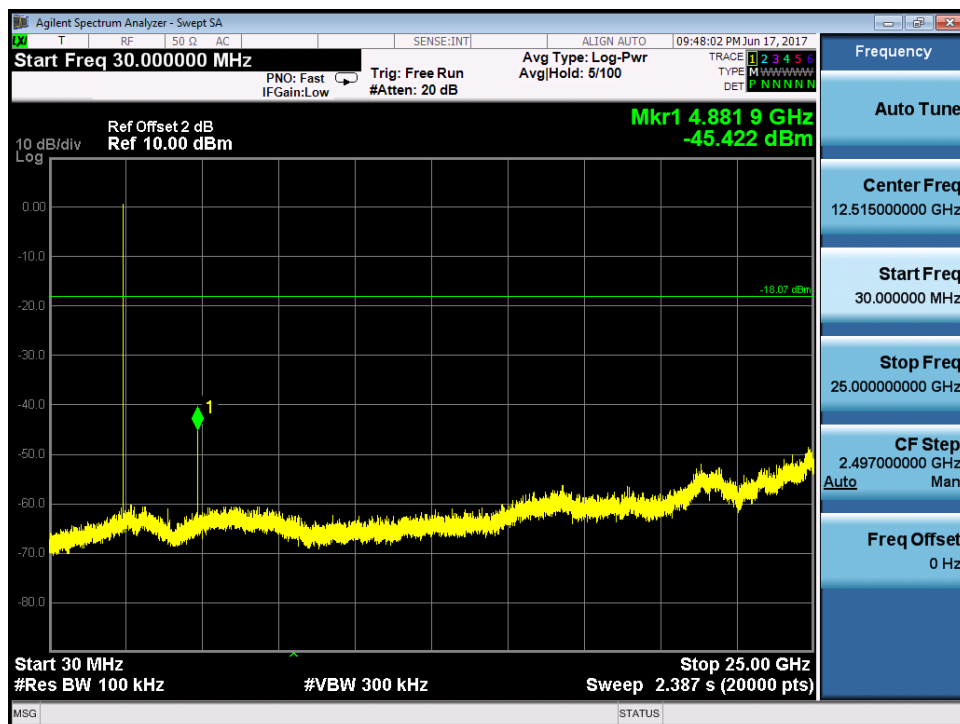
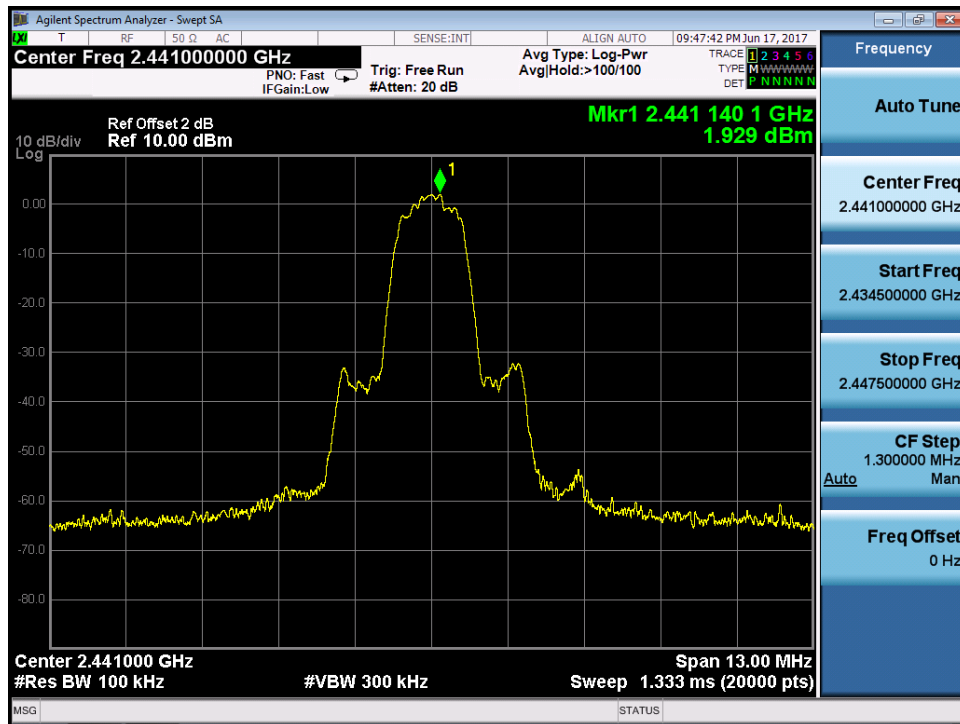
High Channel


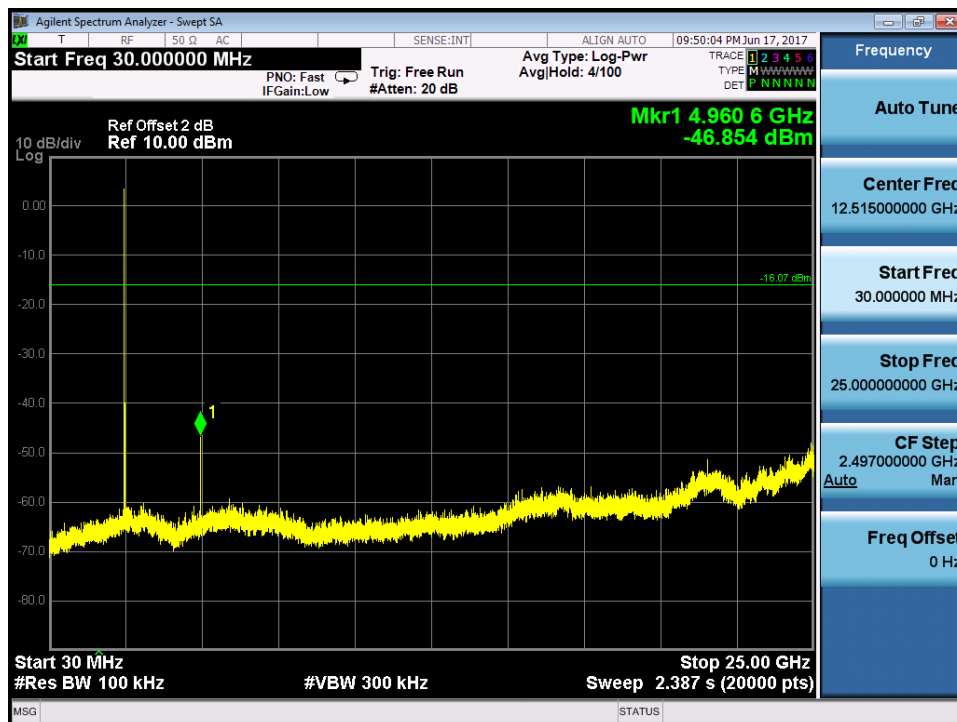
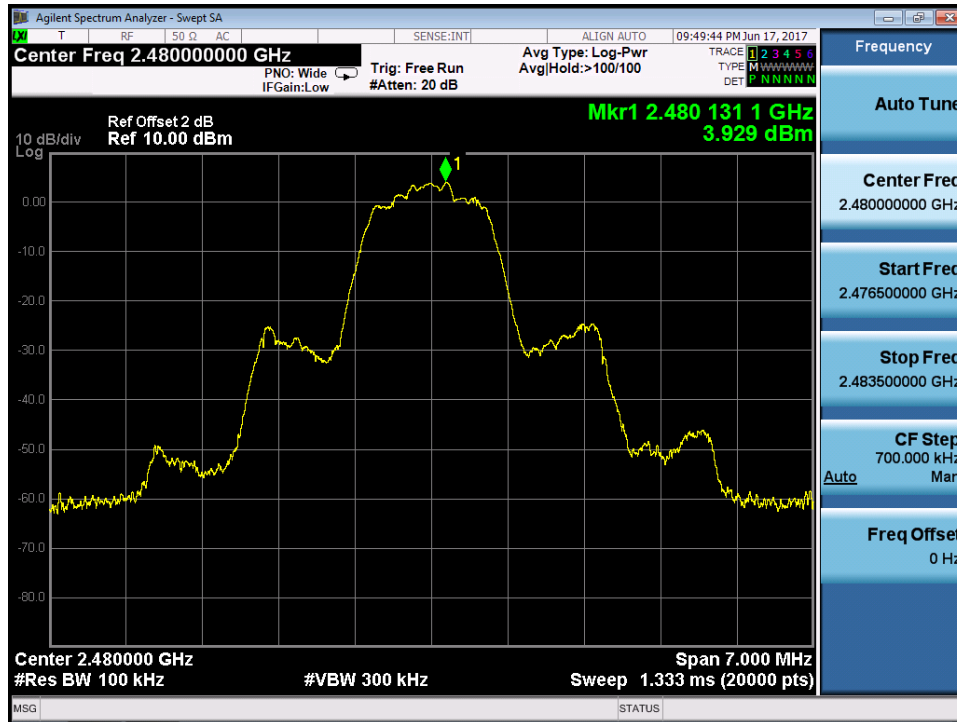
Band Edge


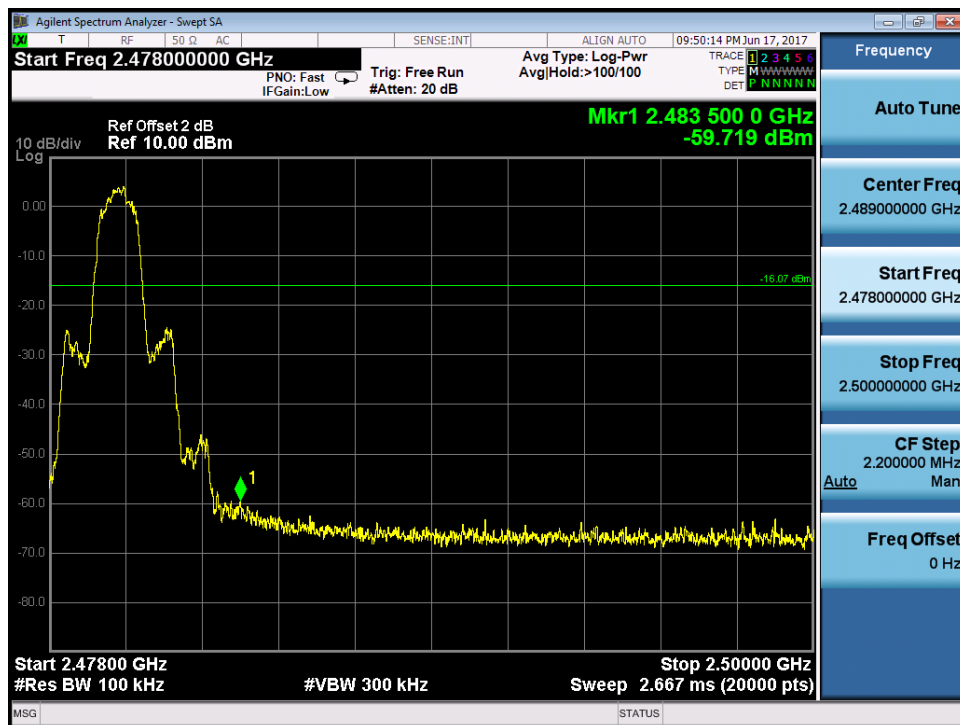
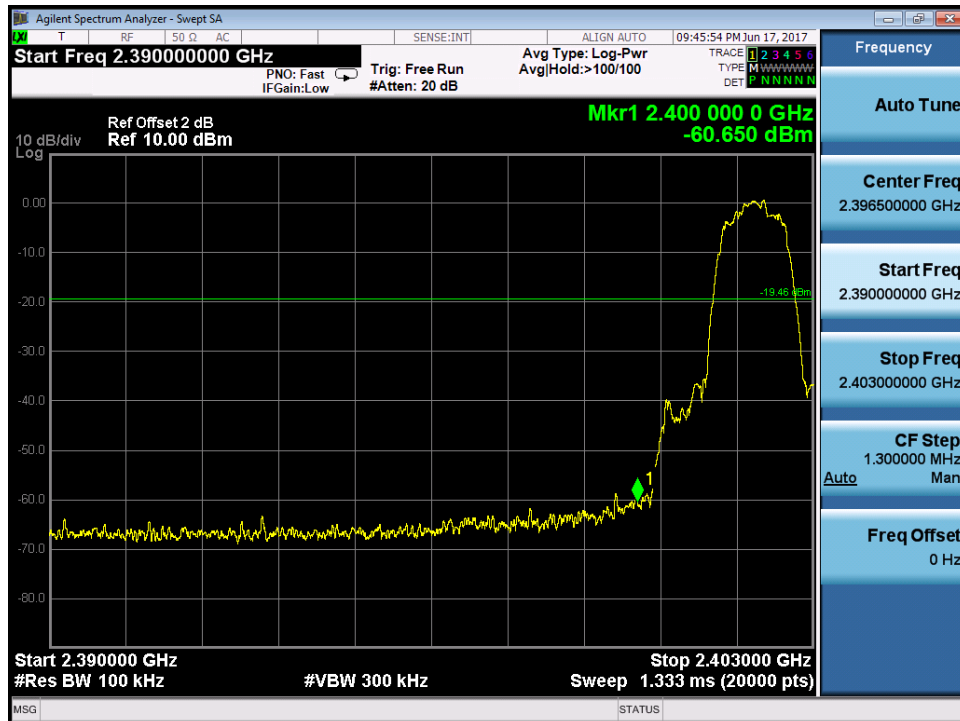
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

Low Channel



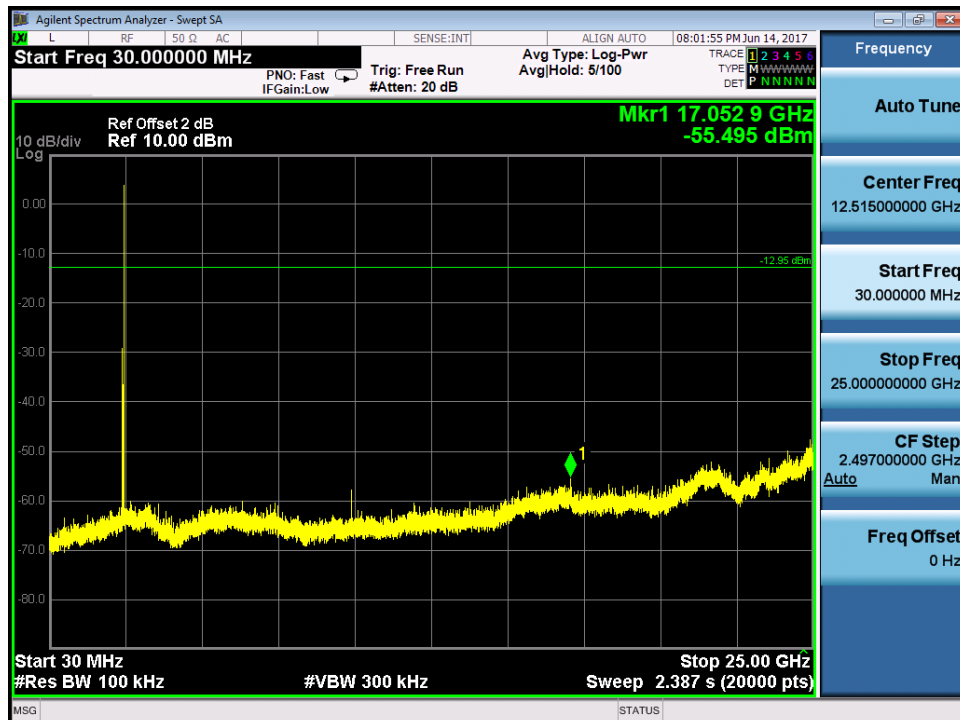
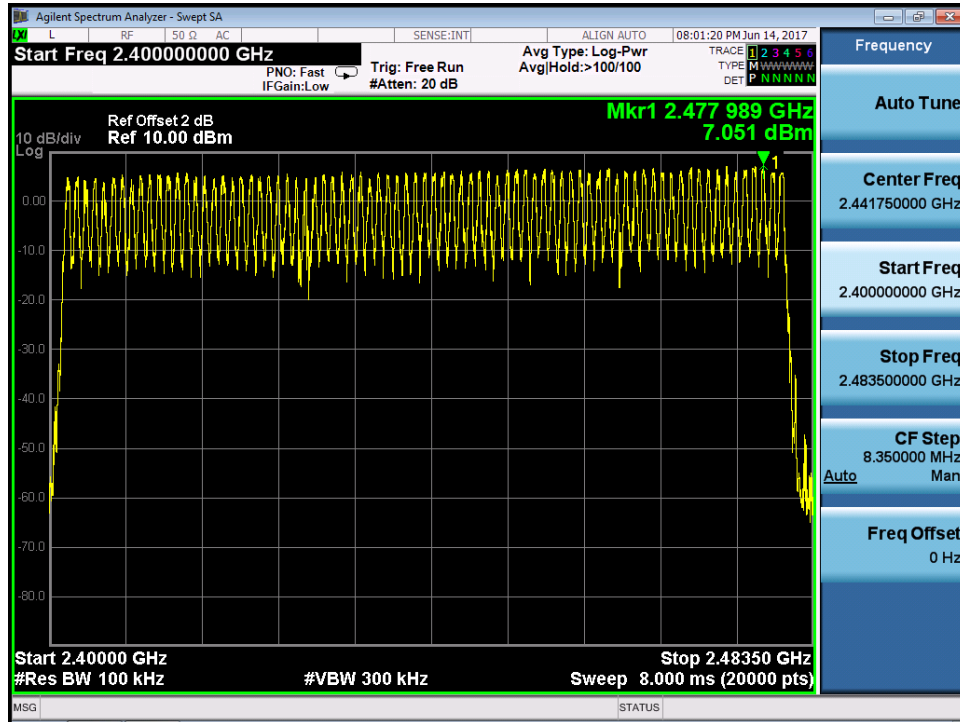
Middle Channel


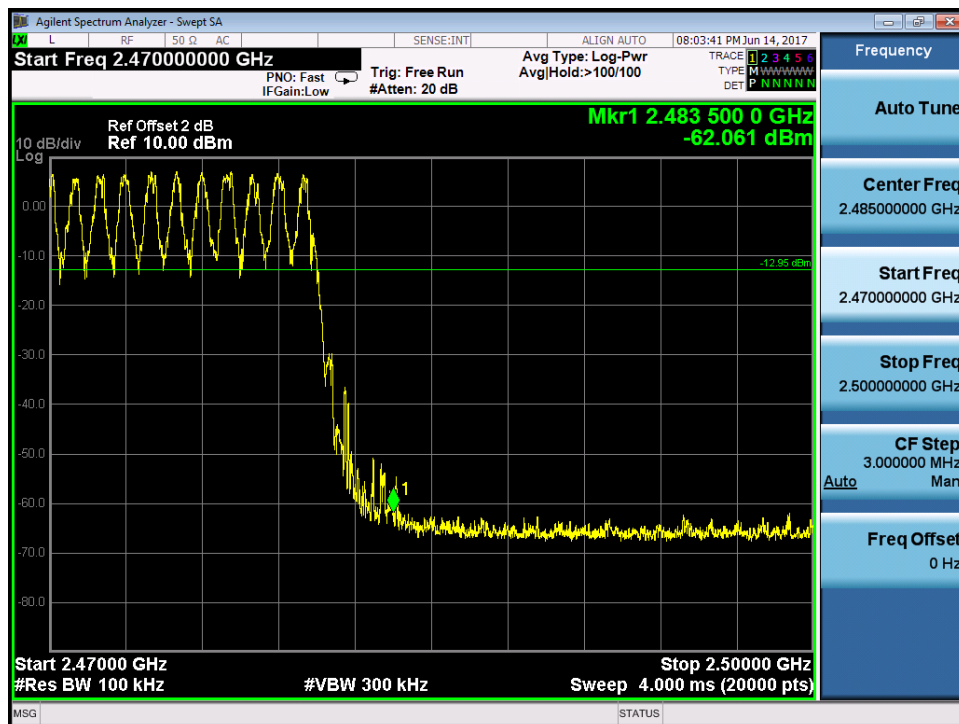
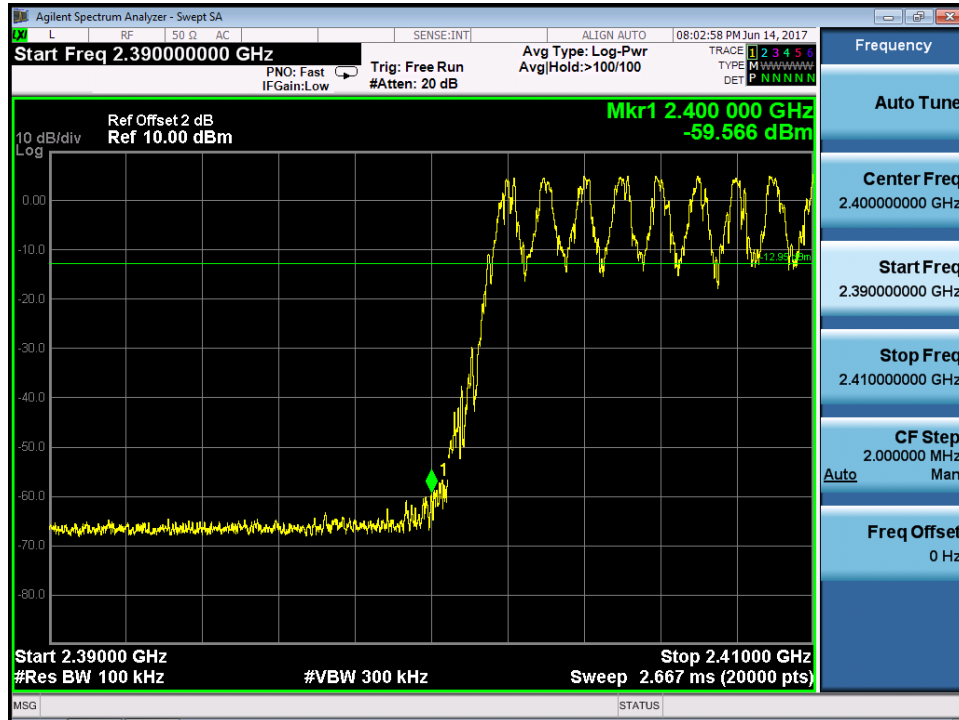
High Channel


Band Edge


Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of hopping mode

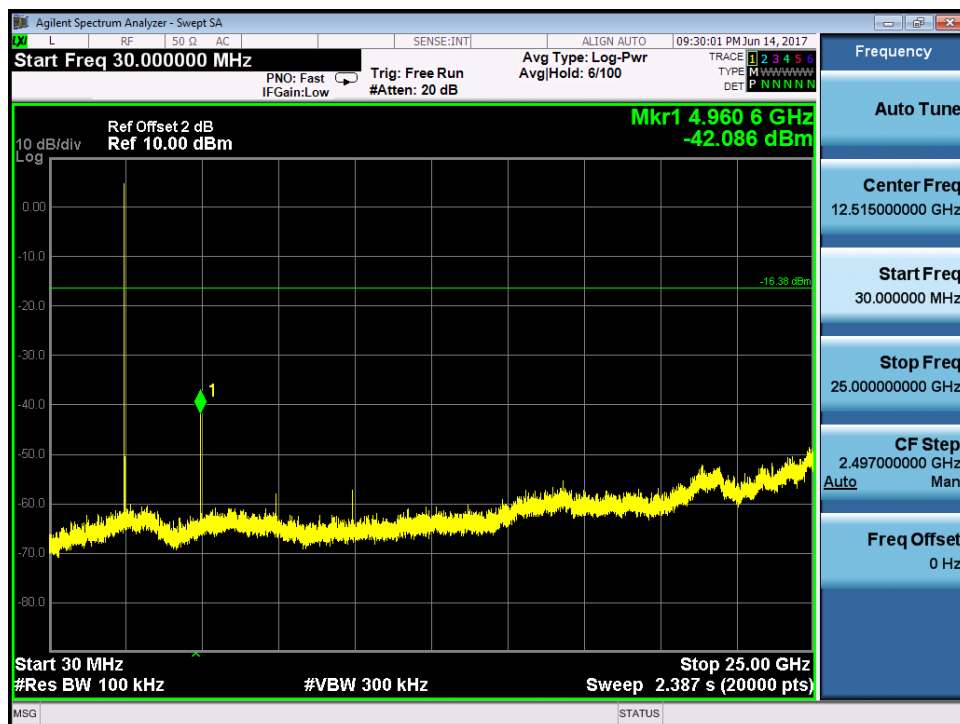
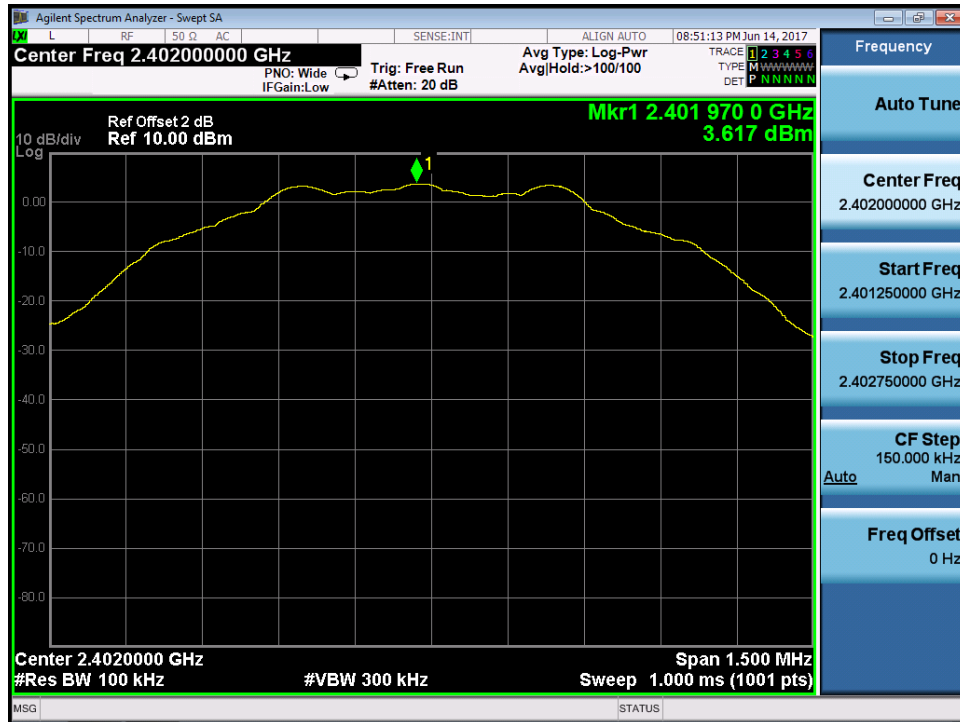
Note: Worst case for BDR and EDR was only reported.

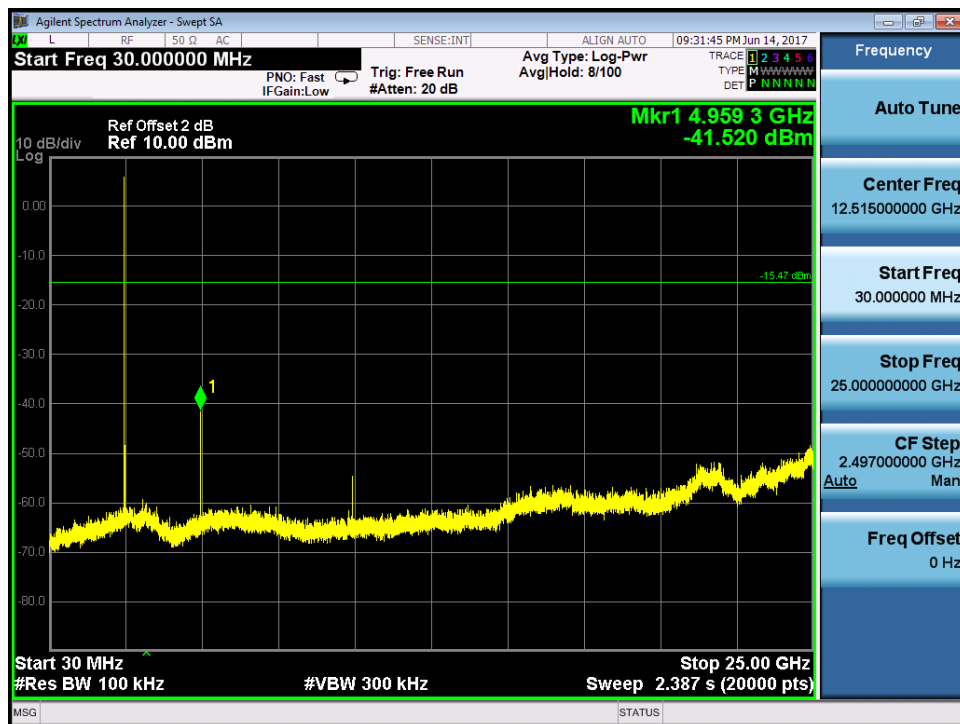
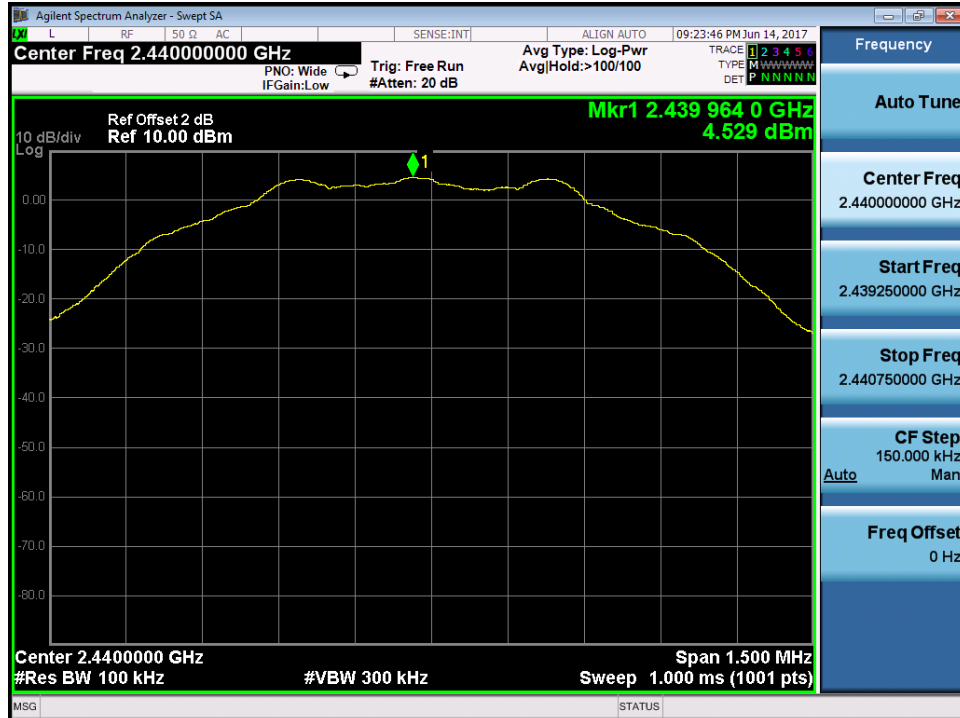


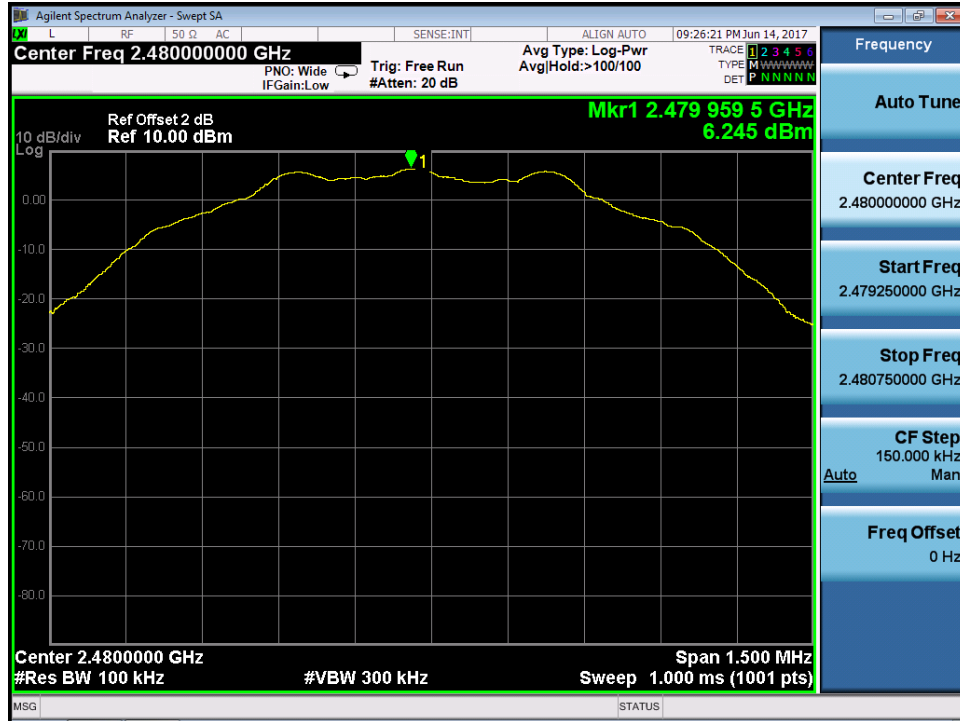


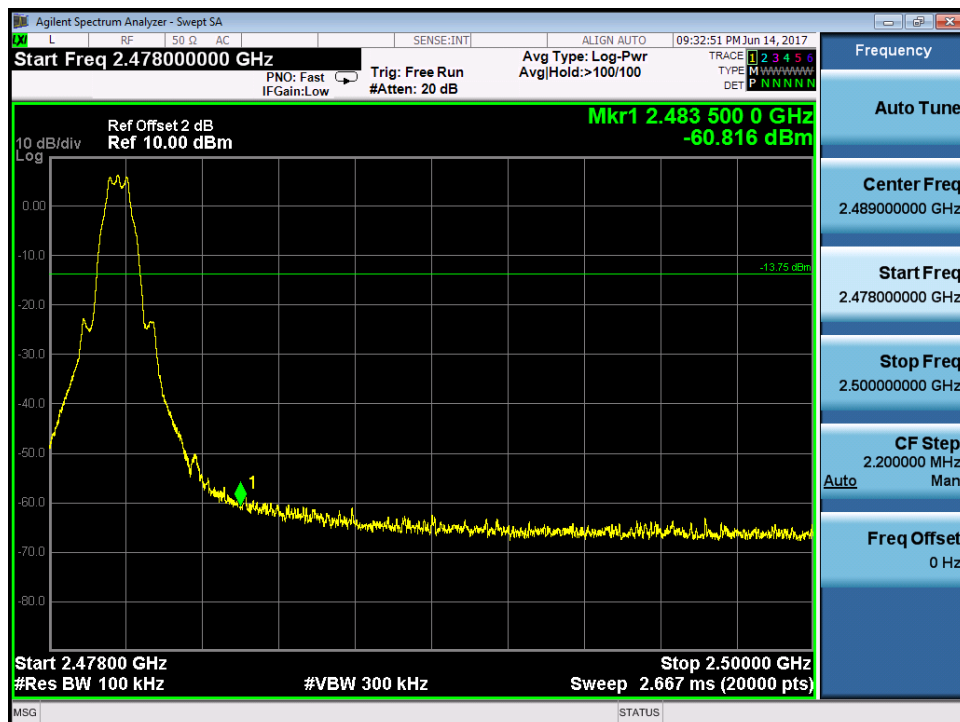
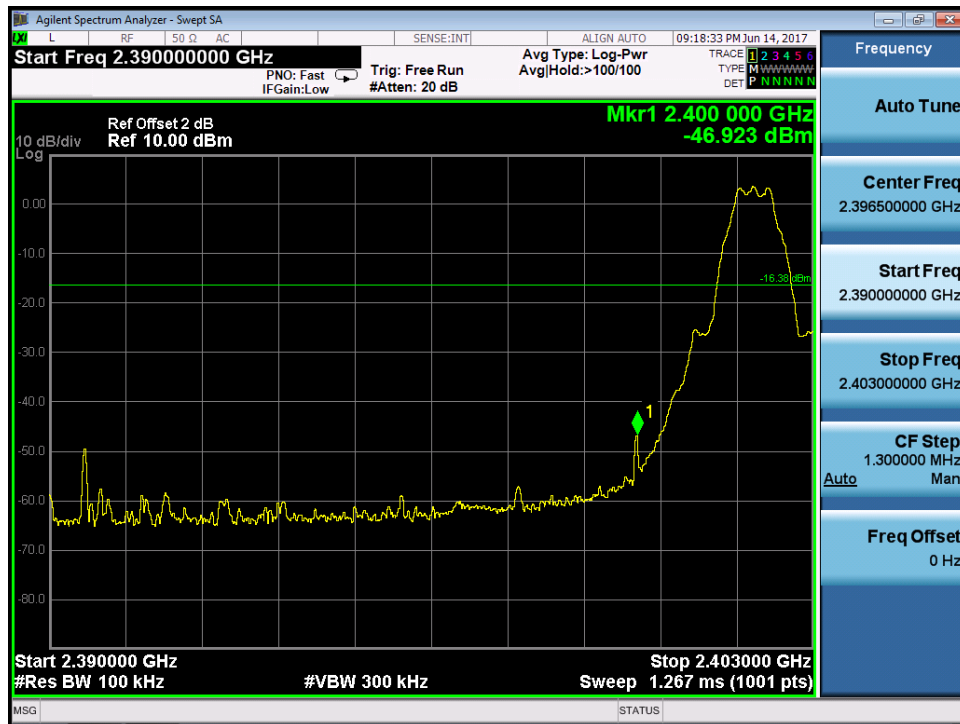
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of Low Energy mode

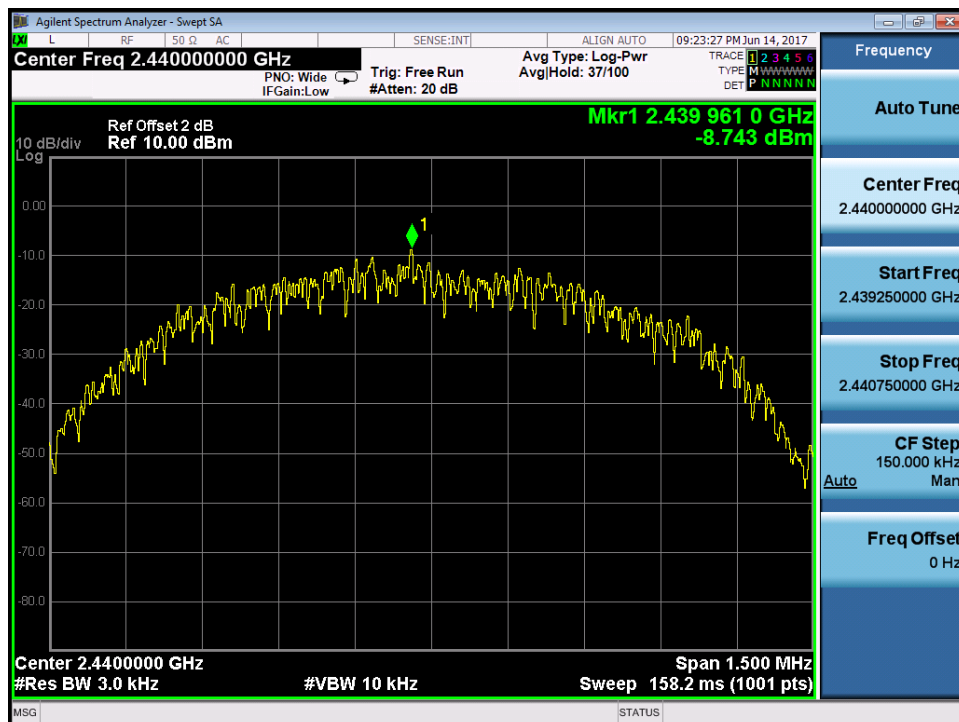
Low Channel

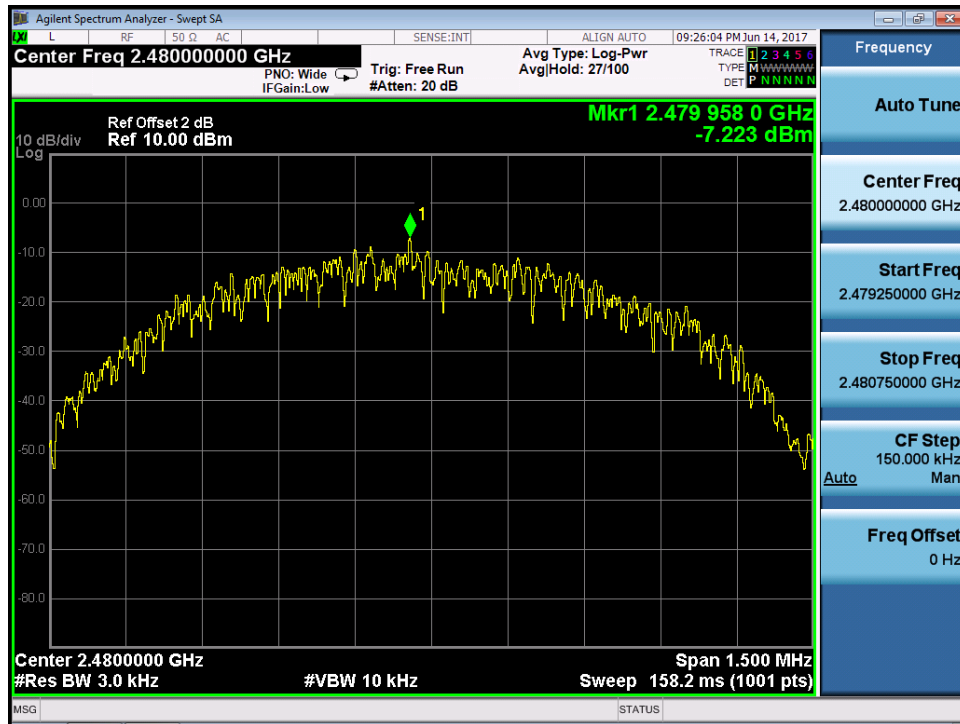


Middle Channel


High Channel


Band Edge


Test plot of power spectral density




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5.1.7 Spurious Emission

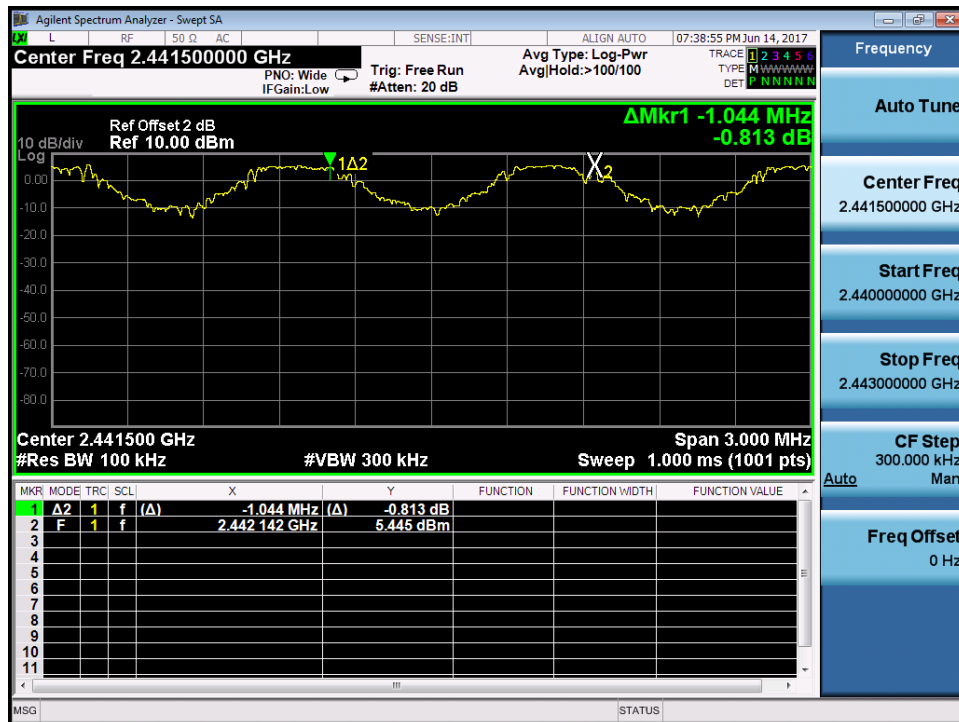
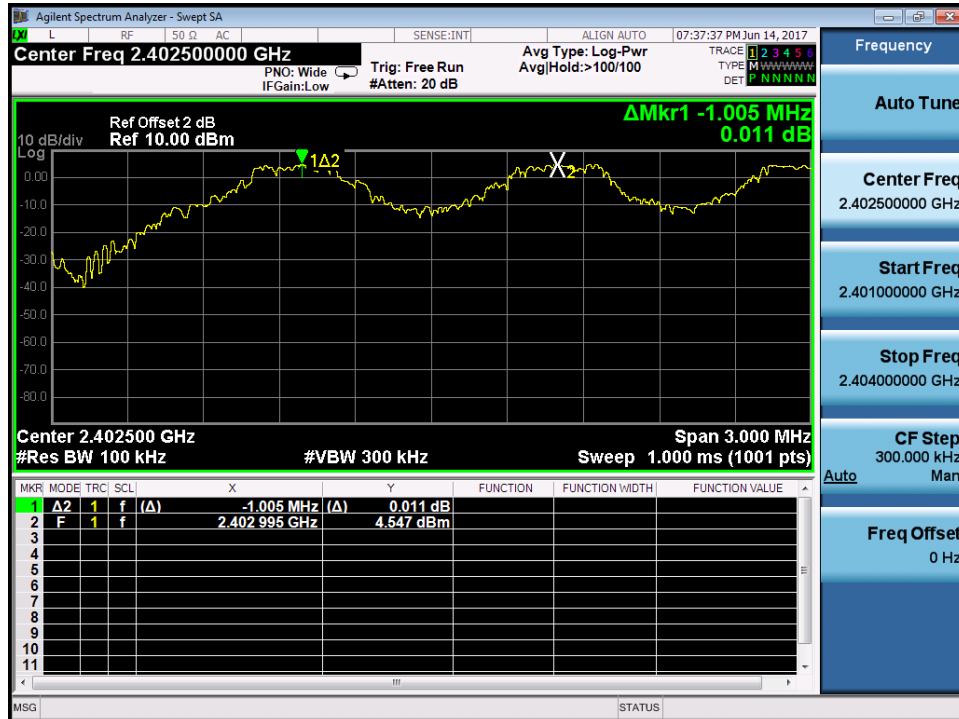
RESULT:**Pass**

Date of testing : 2017-07-06
Test standard : FCC part 15.247(d)
RSS-Gen
Basic standard : ANSI C63.10: 2013
Clause 11 of KDB 558074 v04
Limits : FCC part 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber & Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1.a, A.2.a
Ambient temperature : 22°C
Relative humidity : 55%
Atmospheric pressure : 101kPa

For details refer to appendix A.

Test plot of Frequency Separation


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5.1.11 Conducted emissions

RESULT:**Pass**

Date of testing : 2017-06-21
Test standard : FCC Part 15.207
RSS-Gen Clause 8.8
Basic standard : ANSI C63.10: 2013
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.207
Table 3 of RSS-Gen
Kind of test site : Shield room

Test setup

Input Voltage : AC 120V, 60Hz
Operation Mode : A
Earthing : Not Connected
Ambient temperature : 21°C
Relative humidity : 53%
Atmospheric pressure : 101kPa

For details refer to appendix A.

6. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Spurious Emission up to 1GHz

Please refer to the attached setup photos.

Photograph 2: Set-up for Radiated Spurious Emission above 1GHz

Please refer to the attached setup photos.

Photograph 3: Set-up for Conducted Emission on AC Mains

Please refer to the attached setup photos.

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