Prüfbericht-Nr.: *Test report No.:*	**50064781 002**	**Auftrags-Nr.:** *Order No.:*	164075733	Seite 1 von 31 *Page 1 of 31*
Kunden-Referenz-Nr.: *Client reference No.:*	N/A	**Auftragsdatum:** *Order date.:*	11.10.2016	
Auftraggeber: *Client:*	**ContextMedia Health LLC** 330 N. Wabash Ave STE 2500, Chicago, Illinois United States.			
Prüfgegenstand: *Test item:*	Media Player			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	P-PLA-XXX-XXX-XX (The variable "X" can be 0 to 9, A to Z)			
Auftrags-Inhalt: *Order content:*	FCC and IC approval			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-247 Issue 1 May 2015 RSS-Gen Issue 4 November 2014			

Wareneingangsdatum: *Date of receipt:*	20.10.2016	Please refer to photo documents
Prüfmuster-Nr.: *Test sample No.:*	A000436925-002 A000436925-003	
Prüfzeitraum: *Testing period:*	14.11.2016 - 23.11.2016	
Ort der Prüfung: *Place of testing:*	Accurate Technology Co., Ltd.	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüfergebnis*: *Test result*:*	Pass	

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
21.12.2016	Andy Yan / Project Manager		21.12.2016	Owen Tian / Technical Certifier	
Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

FCC ID: 2AI6X-PPLAYIT
IC: 21722-PPLAYIT **HVIN:** PPLAYIT01
All the Identification no. are identical in the hardware and electronic aspects with each other for marketing stategy only.

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 = mangelhalt
	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 specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY
RESULT: Pass

5.1.4 6DB BANDWIDTH
RESULT: Pass

5.1.5 99% BANDWIDTH
RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.8 20DB BANDWIDTH
RESULT: Pass

5.1.9 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.10 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.11 TIME OF OCCUPANCY
RESULT: Pass

5.1.12 CONDUCTED EMISSION ON AC MAINS
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 appendix:

Appendix A: Test Results of Bluetooth 4.1 (Dual mode) of Conducted Testing

Appendix B: Test Results of Bluetooth 4.1 (Dual mode) of AC Conducted and Radiated Emission

2 Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.
F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test sites 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

Accurate Technology Co., Ltd.

Radio Spectrum Test				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	ESPI3	100396/003	09.01.2017
Spurious Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	R&S	FSV40	101495	09.01.2017
Test Receiver	R&S	ESCS30	100307	09.01.2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	14.01.2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	14.01.2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	14.01.2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	14.01.2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	09.01.2017
Pre-Amplifier	R&S	CBLU11835 40-01	3791	09.01.2017
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	09.01.2017
RF Coaxial Cable	SUHNER	N-3m	No.8	09.01.2017
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	09.01.2017
RF Coaxial Cable	SUHNER	N-6m	No.10	09.01.2017
RF Coaxial Cable	RESENBERGER	N-12m	No.11	09.01.2017
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	09.01.2017
Conducted Emission on AC Mains				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Test Receiver	R&S	ESCS30	100307	09.01.2017
L.I.S.N.	R&S	NLSK8126	8126431	09.01.2017
50Ω Coaxial Switch	Anritsu	MP59B	6200283933	09.01.2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, 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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Item		**Extended Uncertainty**
Conducted Emission		± 3.0 dB
Radiated Emission (9kHz-30MHz)	Field strength (dBμV/m)	U=3.08dB, k=2, σ=95%
Radiated Emission (30-1000MHz)	Field strength (dBμV/m)	U=4.42dB, k=2, σ=95%
Radiated Emission (above 1000MHz)	Field strength (dBμV/m)	U=4.06dB, k=2, σ=95%
Occupied Channel Bandwidth		±5.0 %
RF Output Power, Conducted		±1.5 dB
Power Spectral Density, Conducted		±3.0 dB
Unwanted Emission, Conducted		±3.0 dB
Duty Cycle		±5.0 %

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, 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 Media Player which supports Bluetooth (dual mode) and Wi-Fi 802.11 a/b/g/n/ac wireless technology. This report is only for Bluetooth function of DTS and DSS. Other functions with different technologies are reported in the related reports.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Media Player
Type Designation	P-PLA-XXX-XXX-XX
Trade Mark	ContextMedia Health
FCC ID	2AI6X-PPLAYIT
IC	21722-PPLAYIT
HVIN	PPLAYIT01
Operating Frequency	2402 - 2480 MHz
Operating Temperature Range	-10 °C ~ +50 °C
Operating Voltage	DC 5.0 V from AC/DC Adapter
Testing Voltage	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
AC/DC Adapter	Model: NBS18C050250VU Input: AC 100-240V~50/60Hz, 0.6A Output: DC 5.0V~2500mA
Type of Modulation	GFSK, π/4DQPSK, 8DPSK
Channel Number	BDR & EDR mode:79 channels; Low Energy mode:40 channels
Channel Separation	BDR & EDR mode:1MHz; Low Energy mode:2MHz
Wireless Technology	Bluetooth 4.1 (Dual mode)
Antenna Type	Detachable Antenna with reversed SMA connector
Max. Antenna Gain	2.00 dBi

Table 3: RF Channel and Frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	**2402.00**	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	**78**	**2480.00**
19	2421.00	**39**	**2441.00**	59	2461.00	--	--

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	**2402.00**	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	**19**	**2440.00**	29	2460.00	**39**	**2480.00**

Table 5: Frequency Hopping Information

Technical Specification	Description
Hopping Range	Hereby we declare that the frequency range of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1 + EDR for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests.
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73, 07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56, 69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43, 15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

A. On
   1. Bluetooth transmitting mode (BDR & EDR mode)
      a) Low Channel
      b) Middle Channel
      c) High Channel
   2. Bluetooth transmitting mode (Low Energy mode)
      a) Low Channel
      b) Middle Channel
      c) High Channel

B. On, Transmitting on Hopping channel

C. On, Bluetooth connecting mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- Schematics
- Technical Description
- FCC/IC Label and Location Info
- Photo Document
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation 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

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
LCD TV	KONKA	LCH23HS95	LCH1223W7044457	--
Headphone	Lenovo	CE-1253H	--	--
Adapter	Mass Power	NBS18C050250VU	--	Input: 100-240V~, 50/60Hz, 0.6A Output: DC 5.0V, 2.5A
HDMI Cable	--	--	--	120cm Shielded
RS232 Cable	--	--	--	120cm Shielded

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

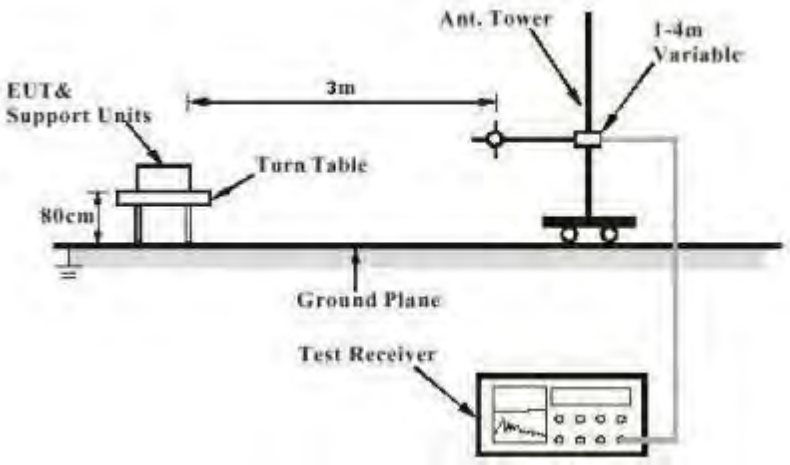


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

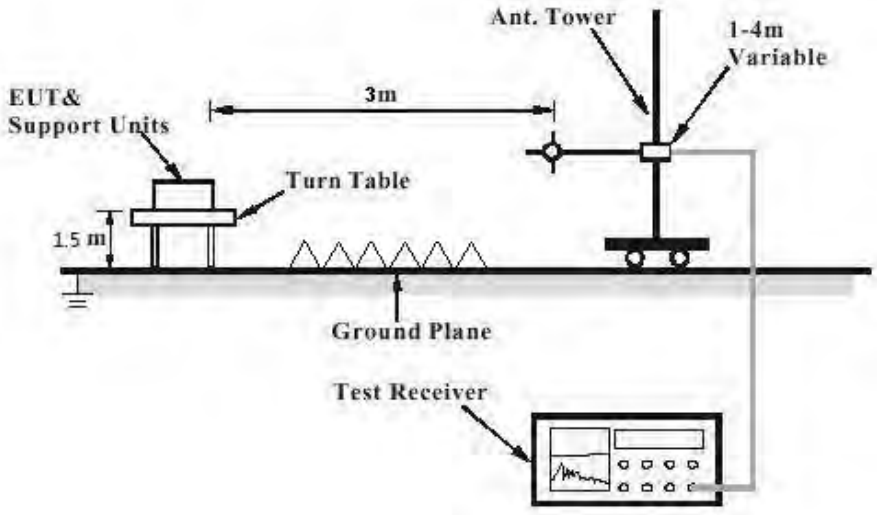


Diagram of Measurement Configuration for Mains Conduction Measurement

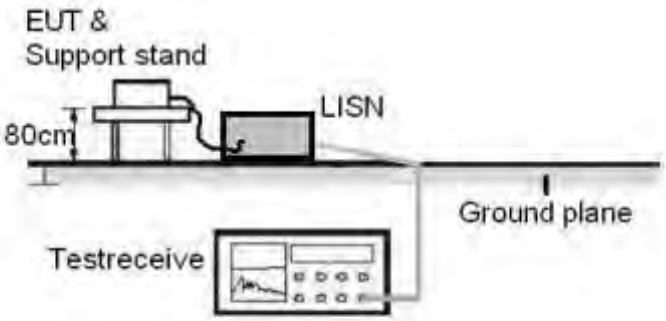
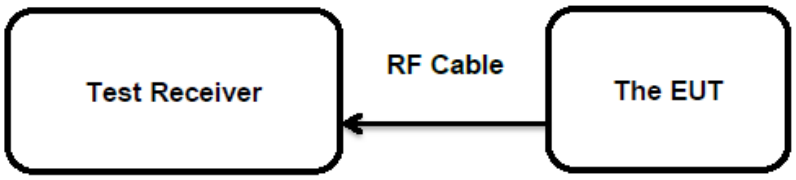


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has a dedicated antenna with reversed SMA connector, the directional gain of antenna is 2.00 dBi. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)&(3)
		RSS-247 Clause 5.4(2)&(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.1, A.2
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 7: Test Result of Maximum Peak Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	4.97	0.0031	< 0.125
	2441	5.90	0.0039	
	2480	6.53	0.0045	
EDR	2402	3.81	0.0024	< 0.125
	2441	4.57	0.0029	
	2480	5.08	0.0032	
Low Energy	2402	4.91	0.0031	< 1.0
	2440	5.76	0.0038	
	2480	6.45	0.0044	
Maximum Measured Value		6.53	0.0045	/

Note: The cable loss 2.0 dB is taken into account in results.

Ant gain: 2dBi

The maximum e.i.r.p. = 8.53 dBm = 0.007 W in SISO mode.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the Appendix A.

5.1.3 Conducted Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(e)
		RSS-247 Clause 5.2(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	8 dBm/3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.2
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 8: Test Result of Power Spectral Density, Low Energy

Test Mode	Test Channel (MHz)	Power Spectrum Density(dBm/3kHz)	Limit (dBm/3kHz)
Low Energy	2402	-9.38	< 8.0
	2440	-8.49	
	2480	-7.88	
Maximum Measured Value		-7.88	

Note: The cable loss 2.0 dB is taken into account in results.

For the measurement records, refer to the Appendix A.

5.1.4 6dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(2)
		RSS-247 Clause 5.2(1)
Basic standard	:	ANSI C63.10: 2013
Limits	:	More than 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.2
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 9: Test Result of 6dB Bandwidth, Low Energy

Test Mode	Test Channel (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)
Low Energy	2402	729.3	> 500
	2440	729.3	
	2480	725.0	
Minimum Measured Value		725.0	

For the measurement records, refer to the Appendix A.

5.1.5 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	RSS-Gen Clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.1, A.2
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 10: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)
BDR	2402	989.9	/
	2441	994.2	
	2480	994.2	
EDR	2402	1224.3	/
	2441	1228.7	
	2480	1224.3	
Low Energy	2402	1081.0	/
	2440	1085.4	
	2480	1085.4	
Maximum Measured Value		1228.7	/

For the measurement records, refer to the APPENDIX A.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d)
		RSS-247 Clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.1, A.2
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the Appendix A.

5.1.7 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205
		RSS-247 Clause 3.3
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
		RSS-Gen Table 4 & Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	21.11.2016 ~ 23.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.1, A.2
Test channel	:	Low / Middle / High
Ambient temperature	:	23 ℃
Relative humidity	:	48 %
Atmospheric pressure	:	101 kPa

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Pre-test the EUT in continuous transmitting with different data packet. Compliance test in continuous transmitting mode with BDR mode (DH5) and BLE mode as the worst case were found.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the Appendix B.

5.1.8 20dB Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
		RSS-247 Clause 5.1(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	A.1
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 11: Test Result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	1037.6	691.7	Within the Frequency band 2400~2483.5MHz
	2441	1042.0	694.7	
	2480	1037.6	691.7	
EDR	2402	1328.5	885.7	
	2441	1328.5	885.7	
	2480	1328.5	885.7	
Maximum Measured Value		1328.5	885.7	

For the measurement records, refer to the Appendix A.

5.1.9 Carrier Frequency Separation

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a)(1)
		RSS-247 Clause 5.1(2)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 12: Test Result of Carrier Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402	1002.9	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Middle Channel	2441	1002.9		Pass
Adjacency Channel	2442			
High Channel	2480	1002.9		Pass
Adjacency Channel	2479			

Note:

The limit is maximum 2/3 of the 20 dB bandwidth: 885.7 KHz.

For the measurement records, refer to the Appendix A.

5.1.10 Number of Hopping Frequency

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
		RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	14.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	B
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 13: Test Result of Number of Hopping Frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥15	Pass

For the measurement records, refer to the Appendix A.

5.1.11 Time of Occupancy

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.247(a)(1)(iii)
		RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 0.4s
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	15.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Table 14: Test Result of Time of Occupancy

Test Mode	Test Channel	Data Packet	Pulse width (ms)	Measured Dwell time(s)	Limit (s)
BDR mode	2402	DH1	0.442	0.141	< 0.4s
		DH3	1.725	0.276	
		DH5	2.956	0.315	
	2441	DH1	0.435	0.139	
		DH3	1.710	0.274	
		DH5	2.978	0.318	
	2480	DH1	0.435	0.139	
		DH3	1.710	0.274	
		DH5	2.978	0.318	
EDR mode	2402	3DH1	0.442	0.141	
		3DH3	1.717	0.274	
		3DH5	2.978	0.318	
	2441	3DH1	0.442	0.141	
		3DH3	1.703	0.272	
		3DH5	3.000	0.320	
	2480	3DH1	0.442	0.141	
		3DH3	1.732	0.277	
		3DH5	2.978	0.318	
Maximum Measured Value			3.000	0.320	

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 x 79 (channel) = 31.6 seconds

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the APPENDIX A.

5.1.12 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a)
		RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a)
		RSS-Gen Table 3
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	23.11.2016
Input voltage	:	DC 5.0 V from AC/DC Adapter with input 120V/60Hz
Operation mode	:	C
Earthing	:	Not connected
Ambient temperature	:	25 ℃
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the Appendix B.

Only the worst case Bluetooth Classic mode was reported.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Pass**

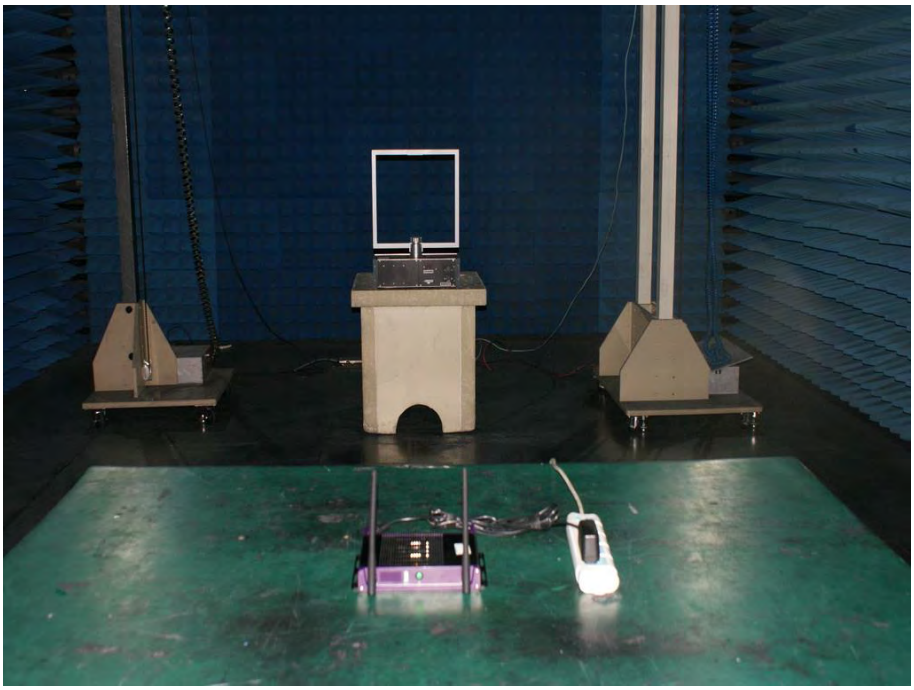
Test Specification

Test standard : CFR47 FCC Part 2.1093
RSS-102 Issue 5 March 2015

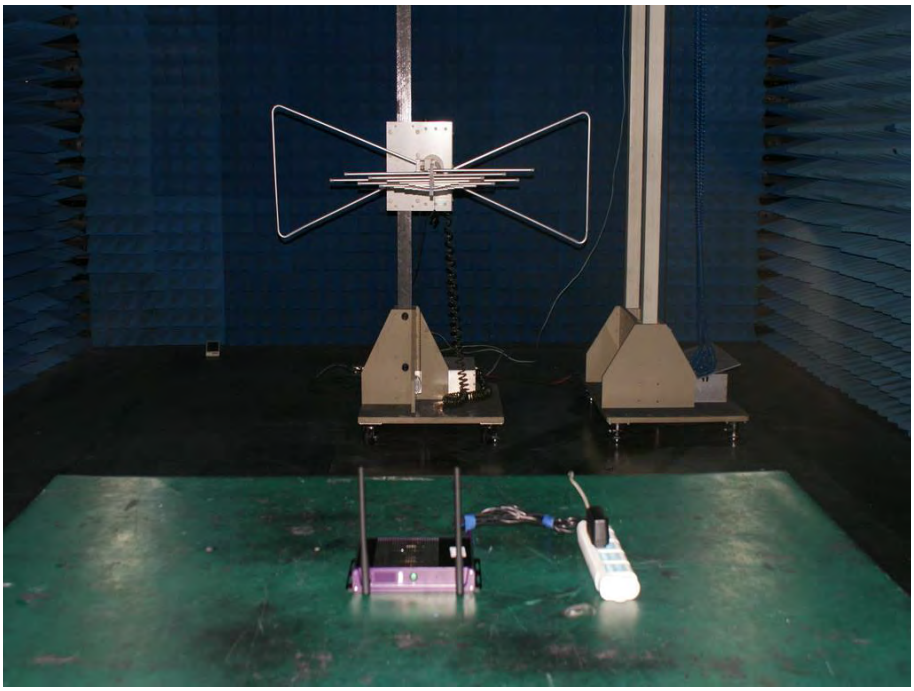
Measurement Record:
Refer to the “RF Exposure Info”.

7 Photographs of the Test Set-Up

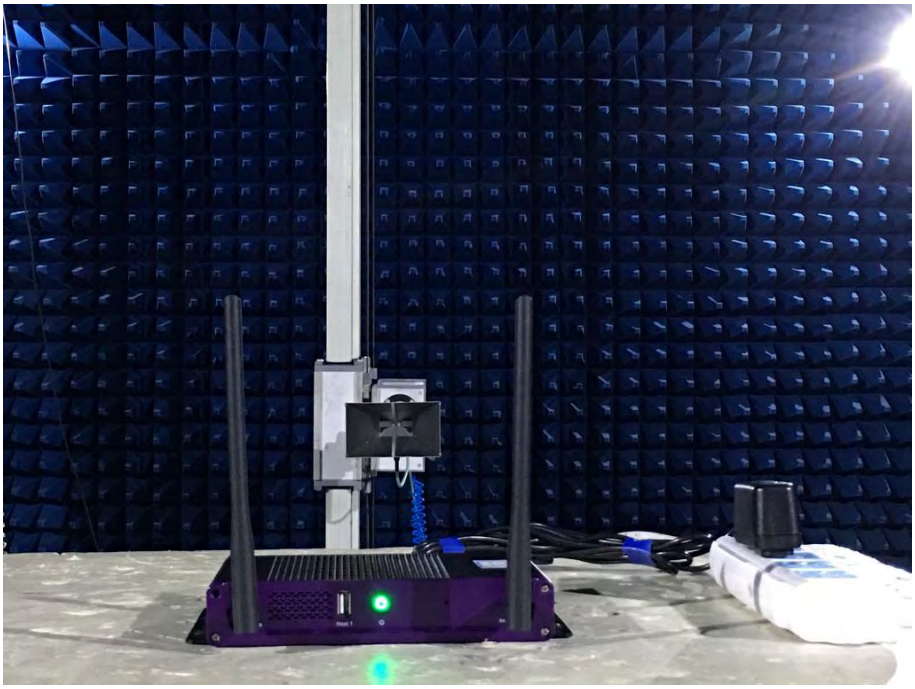
Photograph 1: Set-up for Radiated Spurious Emission (9kHz ~ 30MHz)



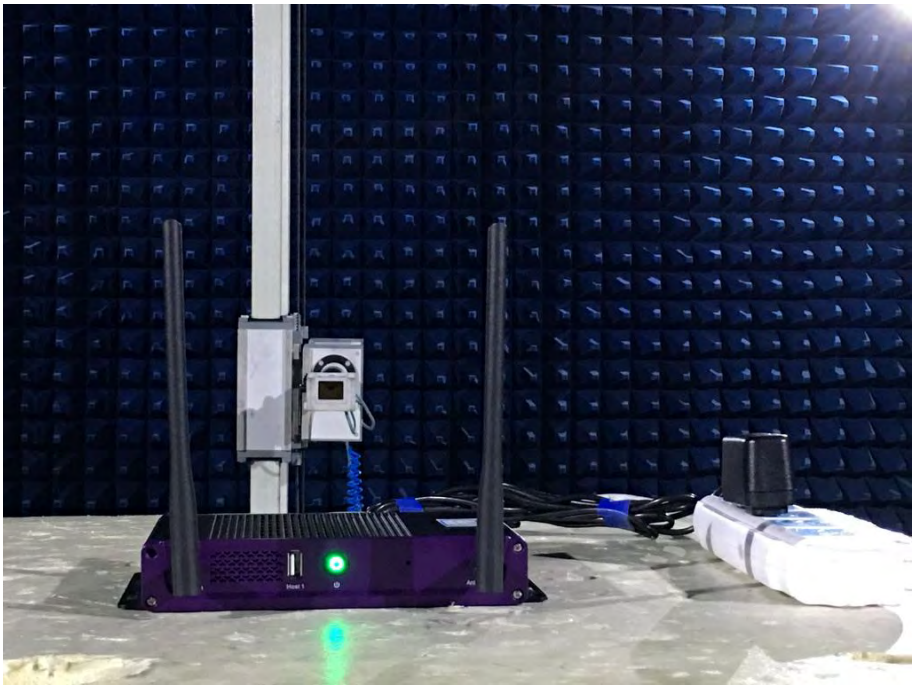
Photograph 2: Set-up for Radiated Spurious Emission (30MHz~1GHz)



Photograph 3: Set-up for Radiated Spurious Emission (1GHz ~ 18GHz)



Photograph 4: Set-up for Radiated Spurious Emission above 18GHz



Photograph 5: Set-up for Conducted Emission on AC Mains

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Appendix A

Test Results of Bluetooth 4.1 (Dual mode) of Conducted Testing

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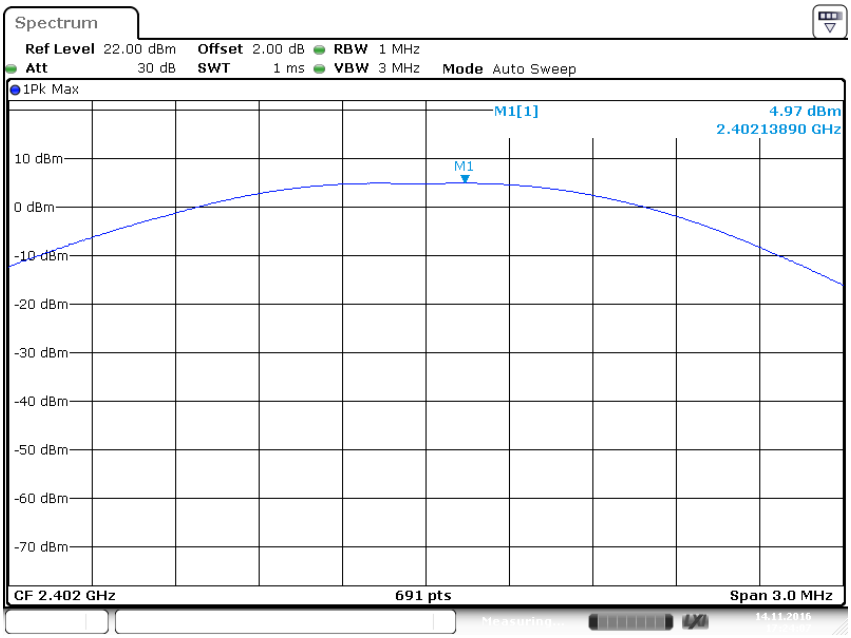
EDR Mode, 3DH5 ..... *37*

Appendix A.1: Test Plots of Maximum Peak Conducted Output Power

BDR Mode, DH1



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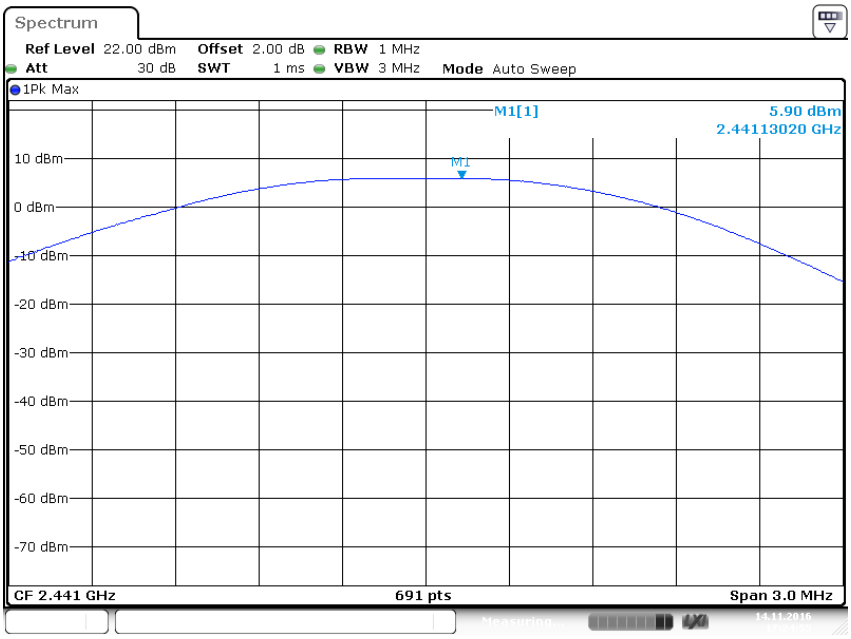

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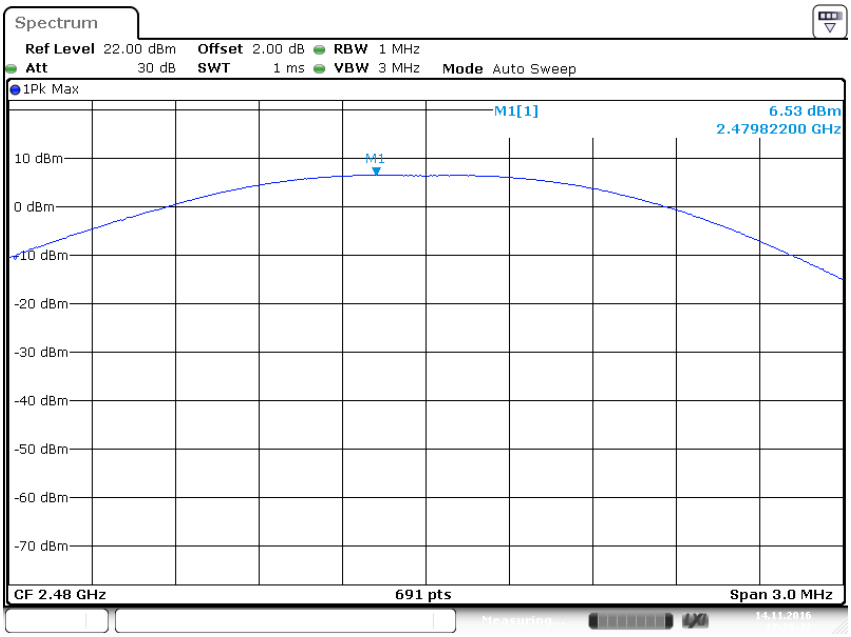

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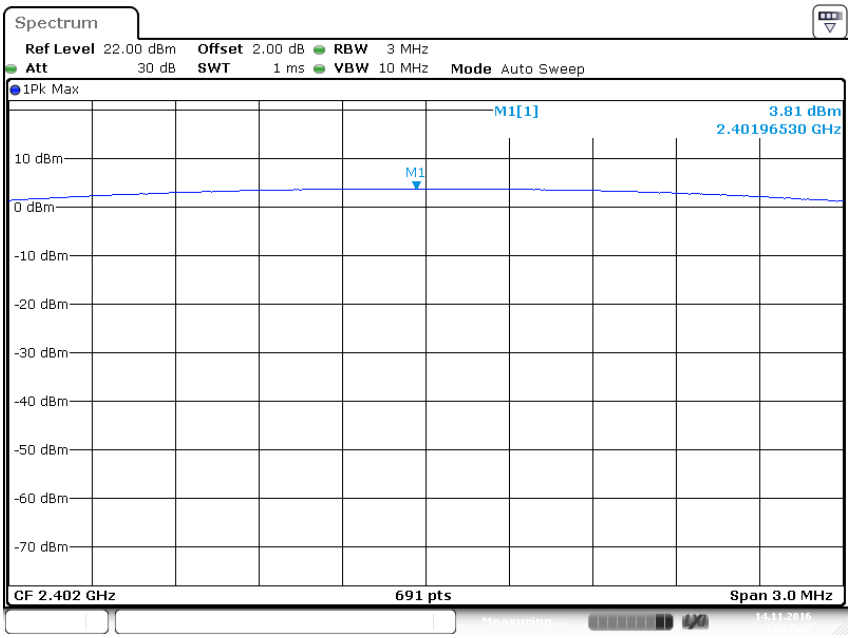
EDR Mode, 3DH1



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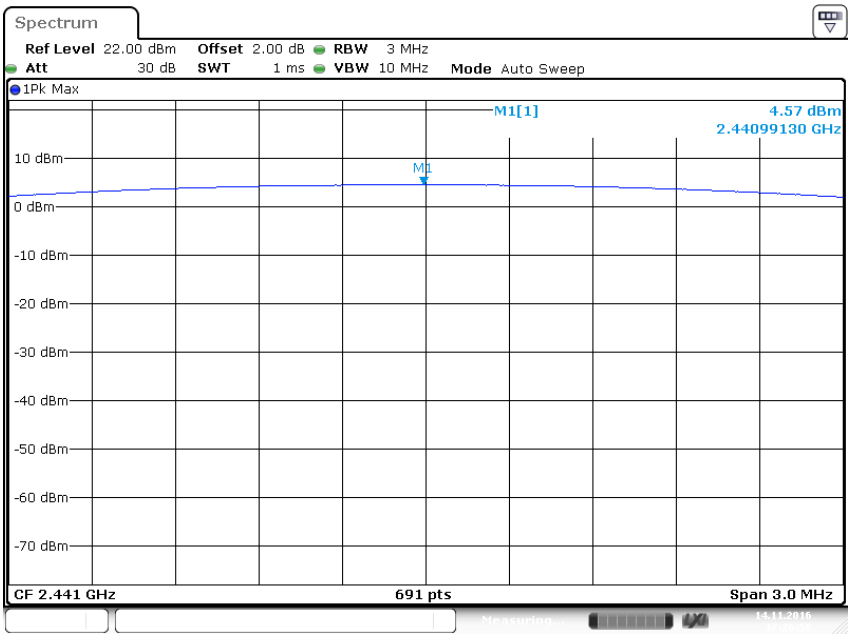

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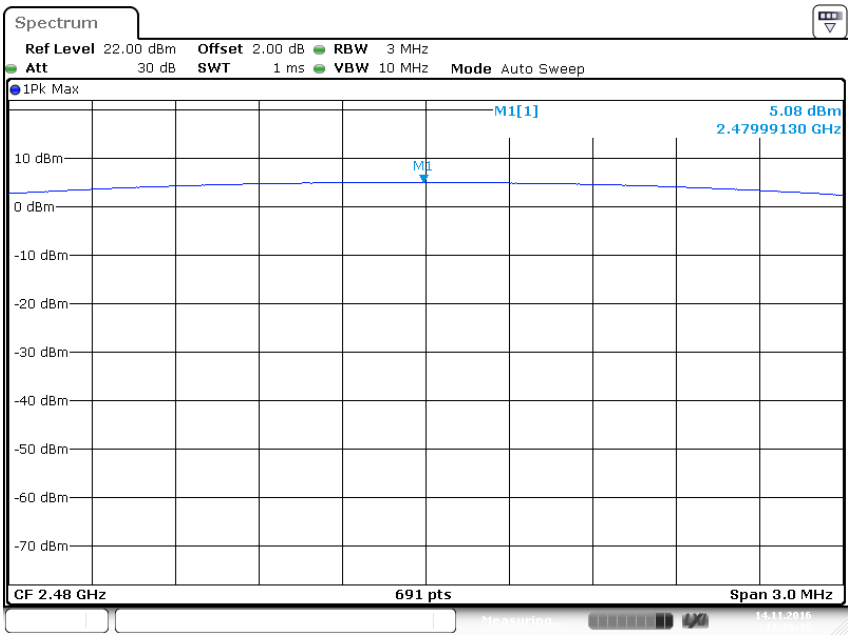

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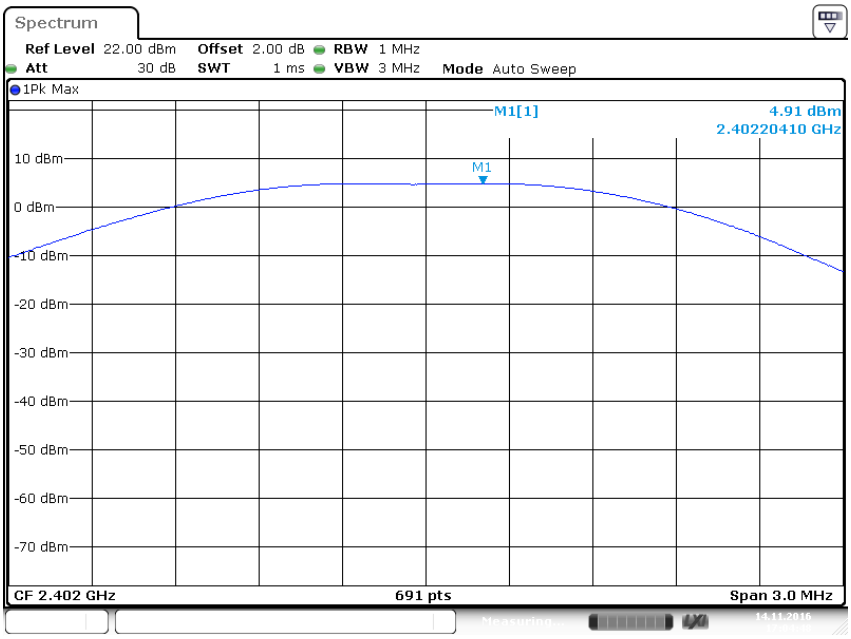
Low Energy Mode



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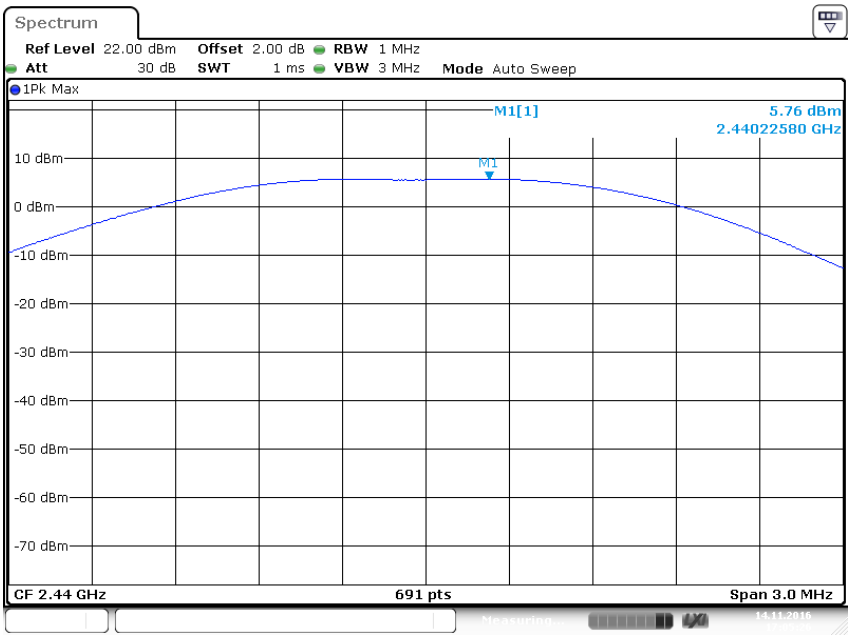

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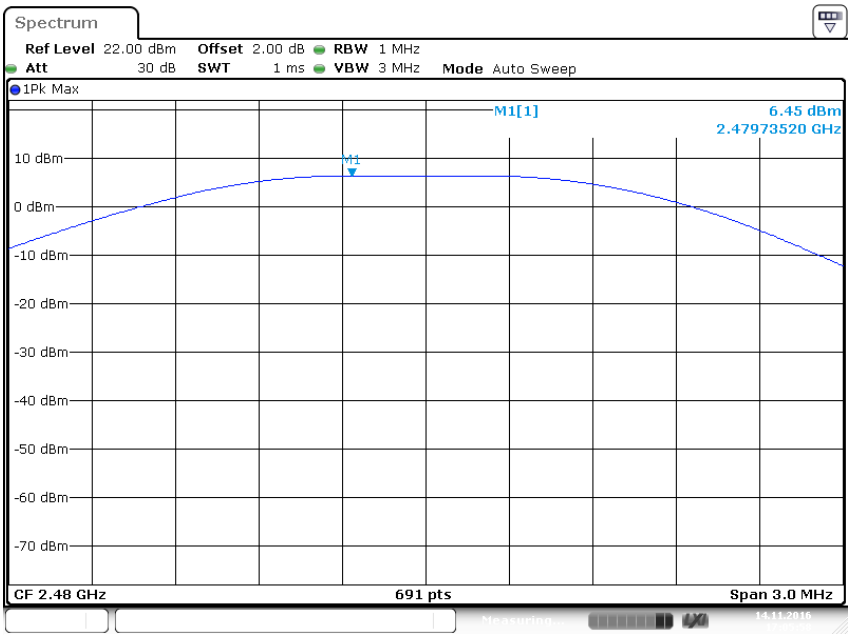

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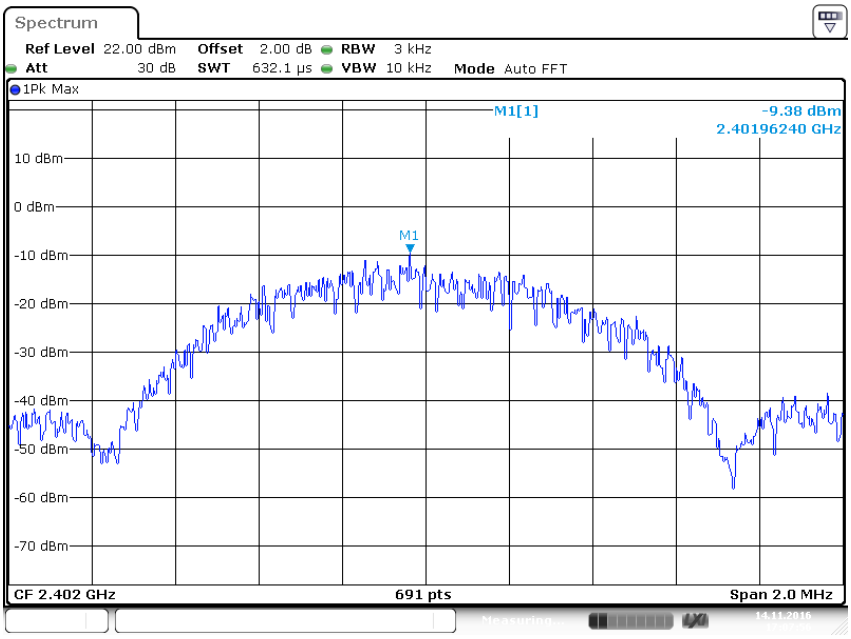
Appendix A.2: Test Plots of Conducted Power Spectral Density

Low Energy Mode



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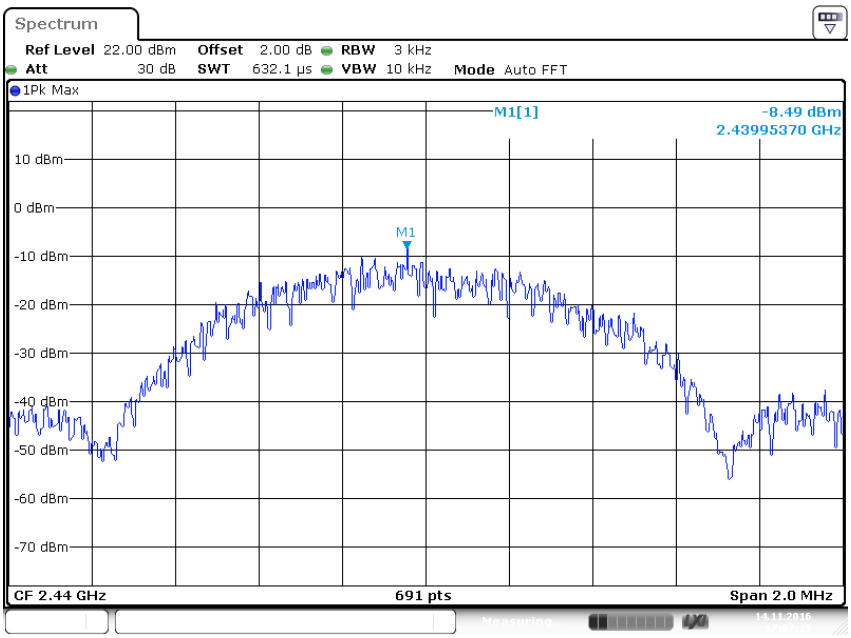

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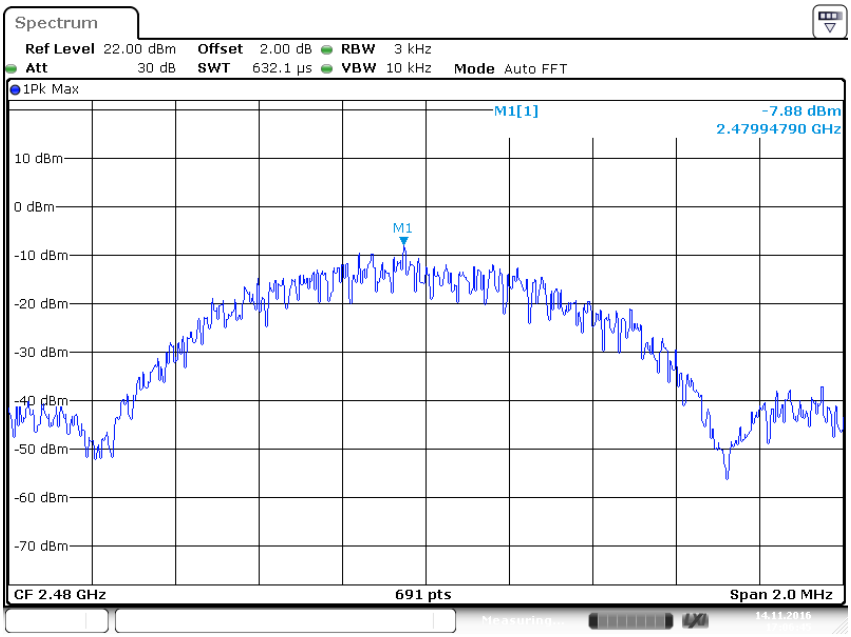

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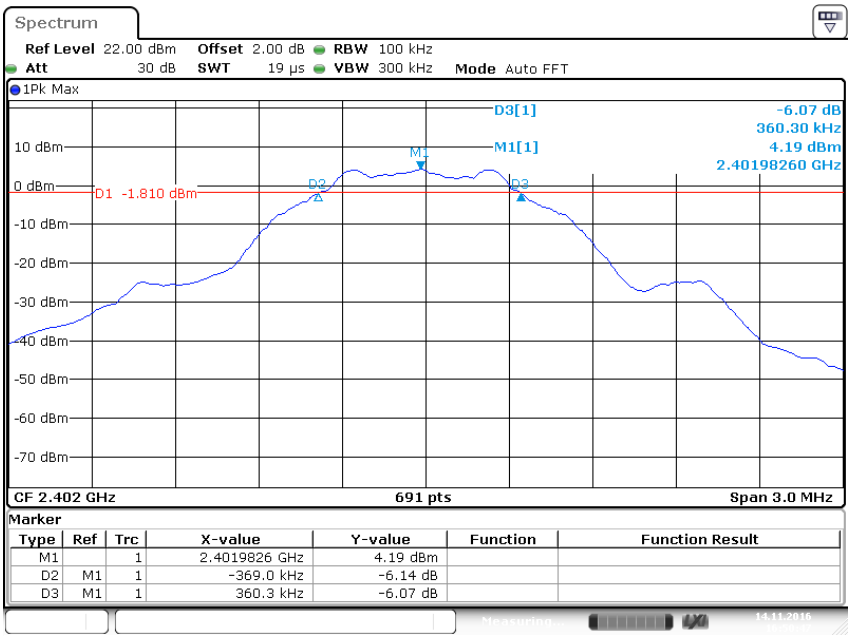
Appendix A.3: Test Plots of 6dB Bandwidth

Low Energy Mode



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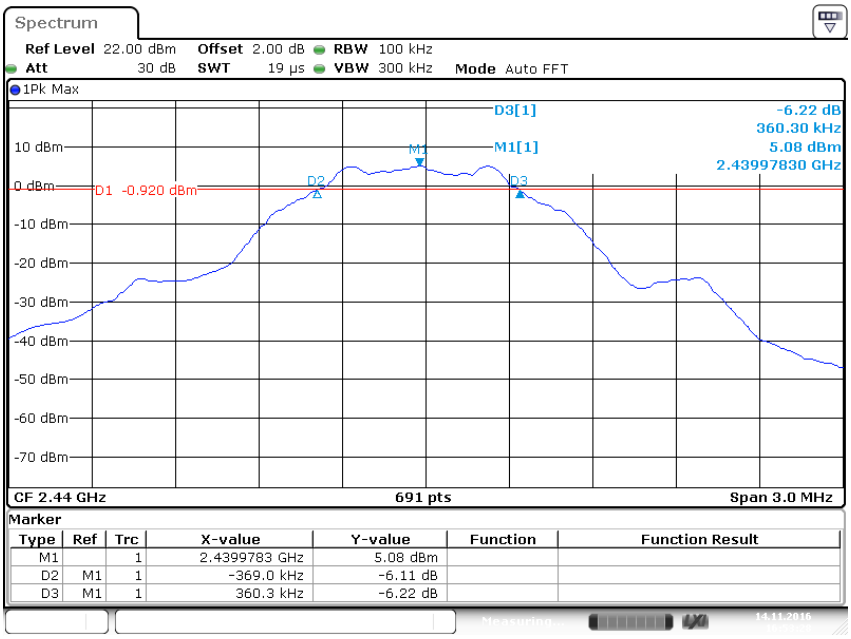

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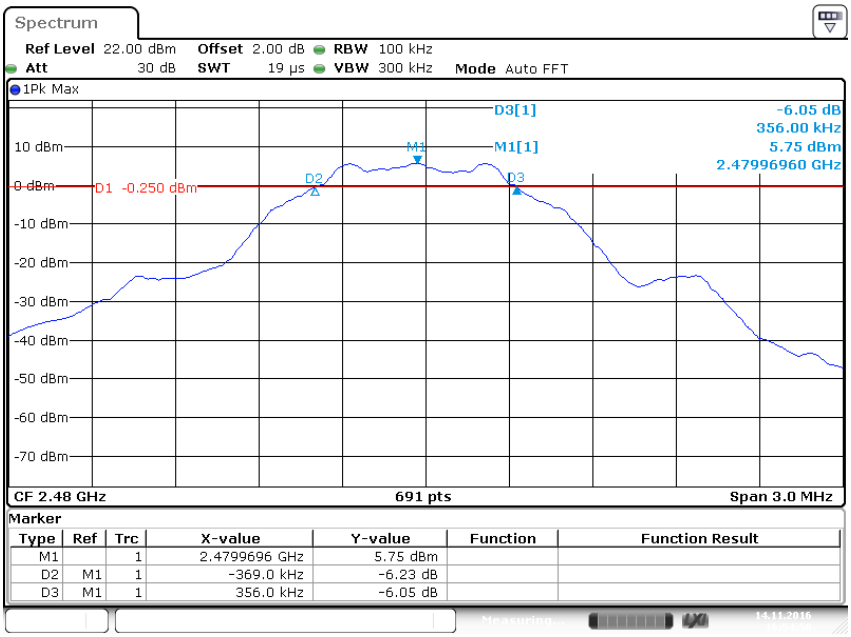

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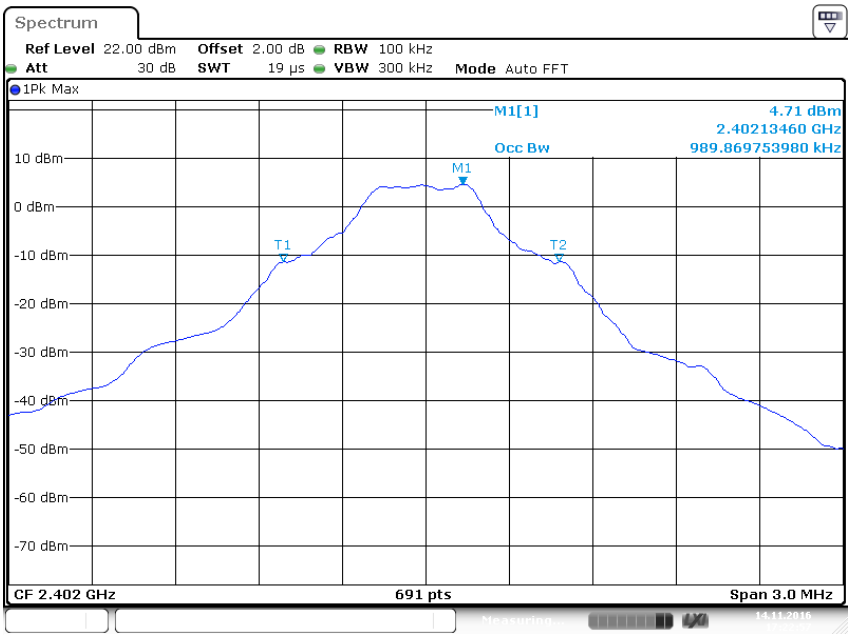
Appendix A.4: Test Plots of 99% Bandwidth

BDR Mode, DH1



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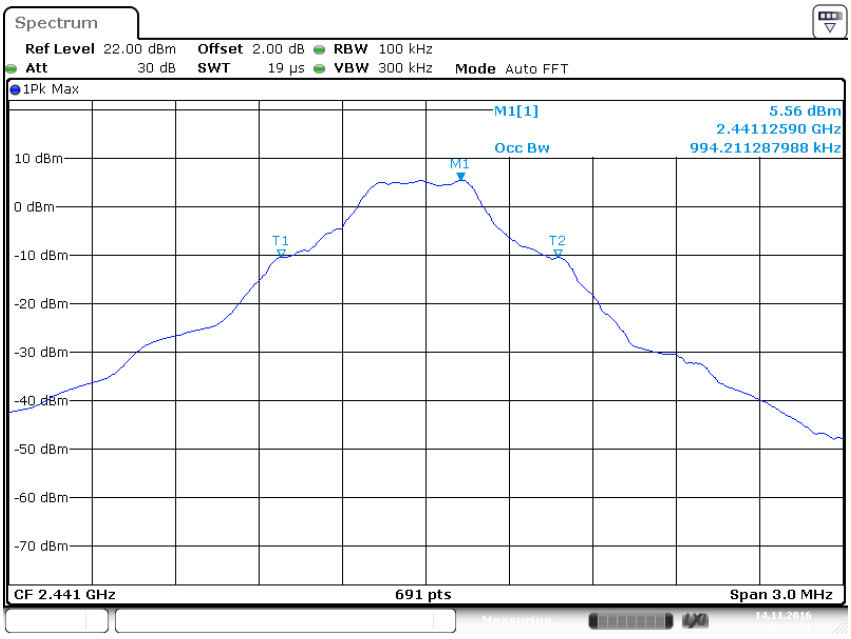

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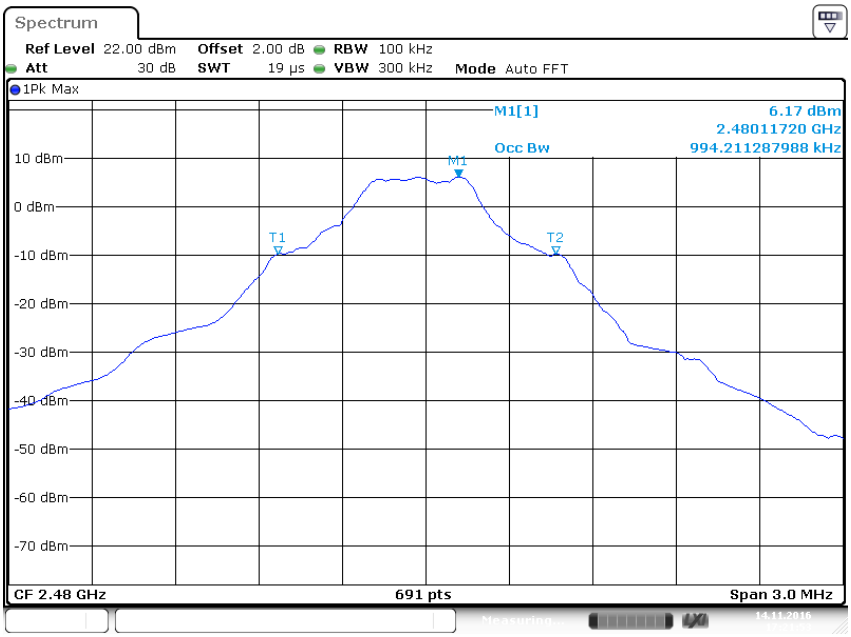

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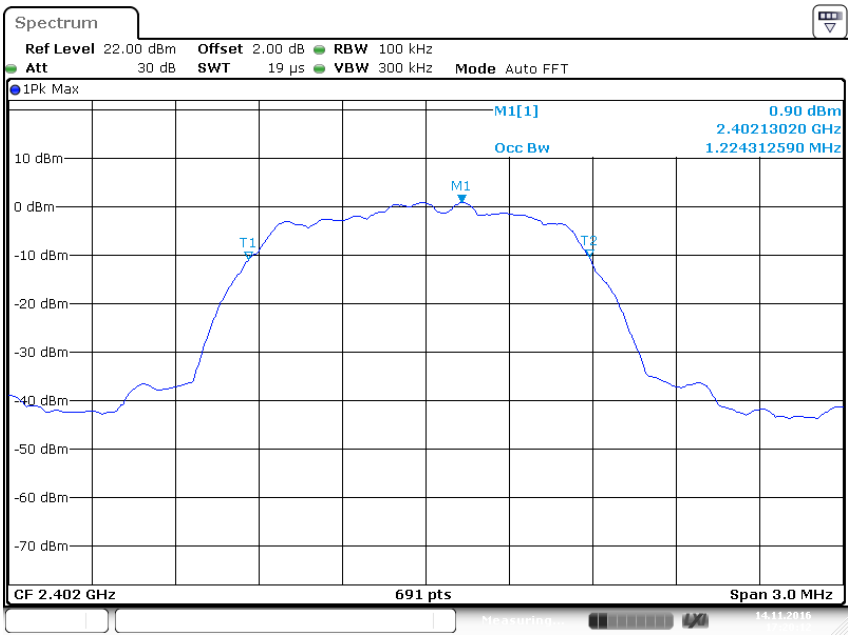
EDR Mode, 3DH1



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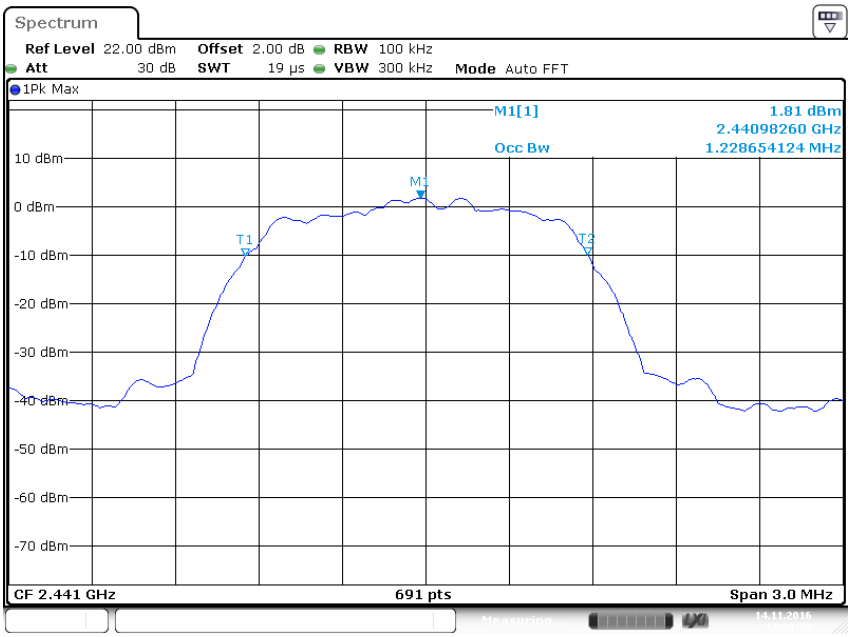

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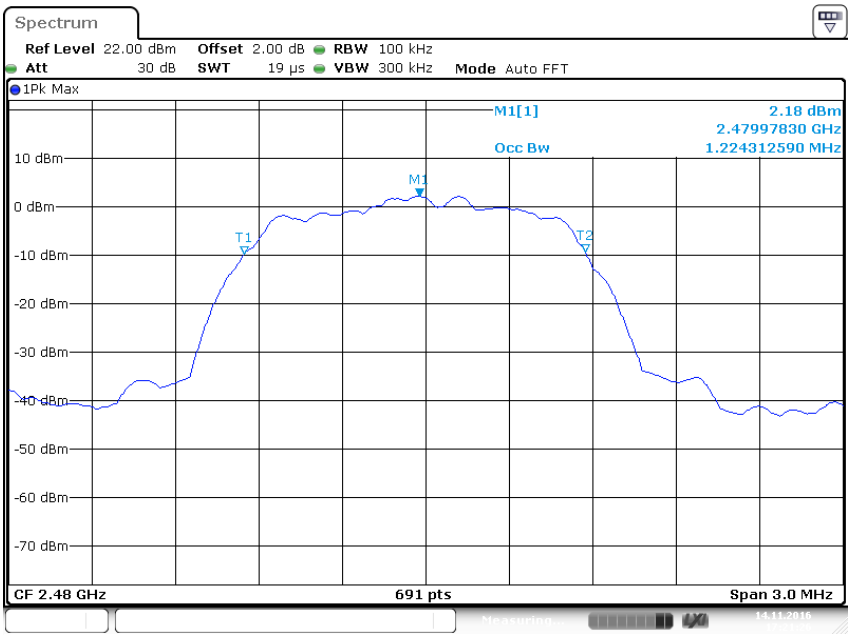

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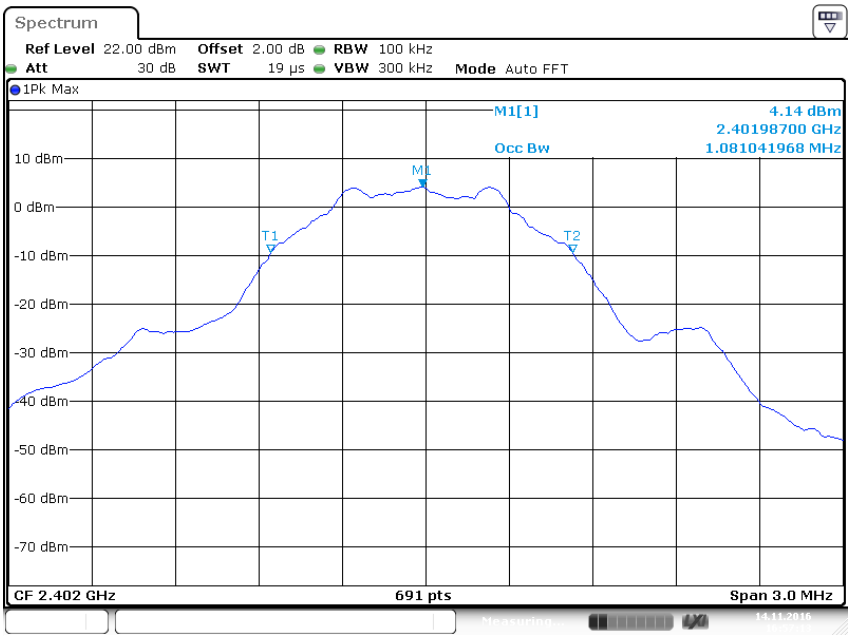
Low Energy Mode



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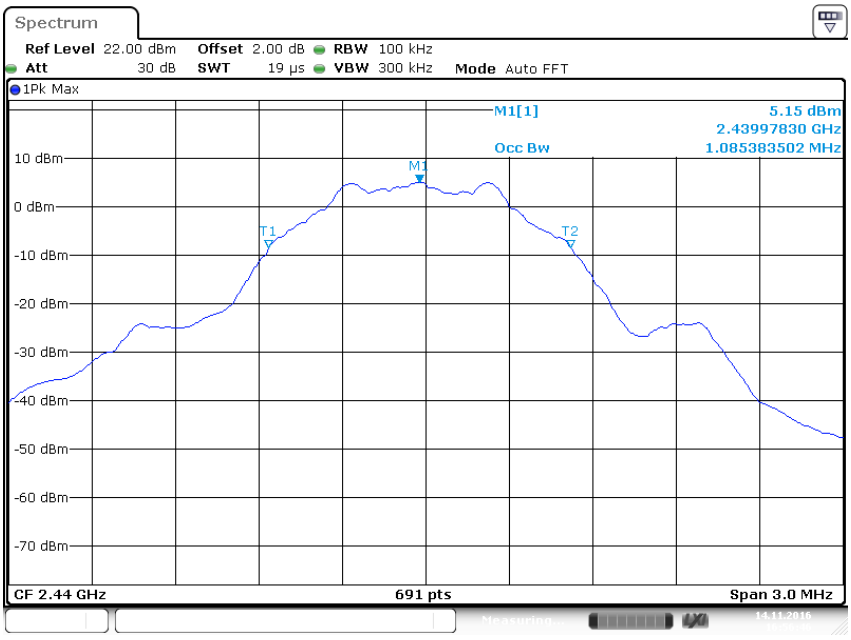

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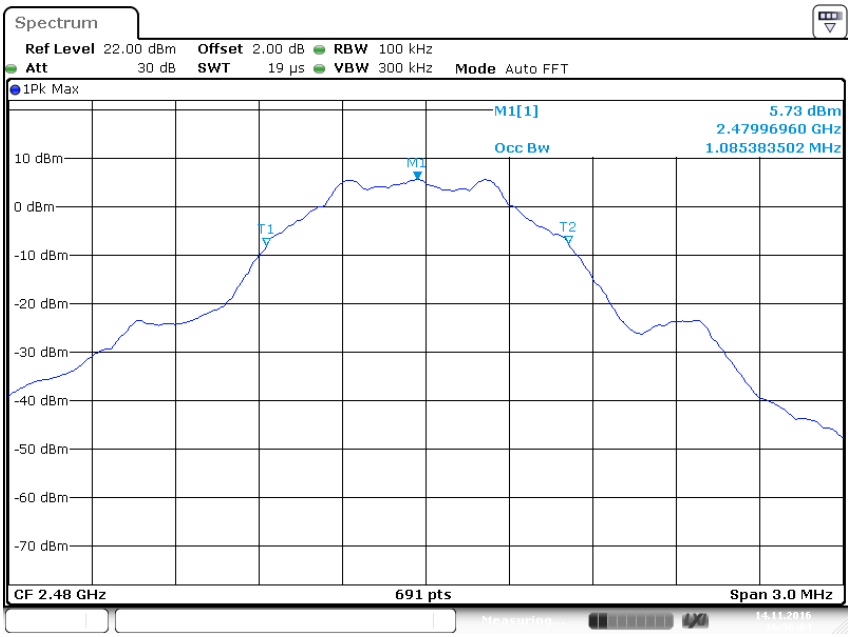

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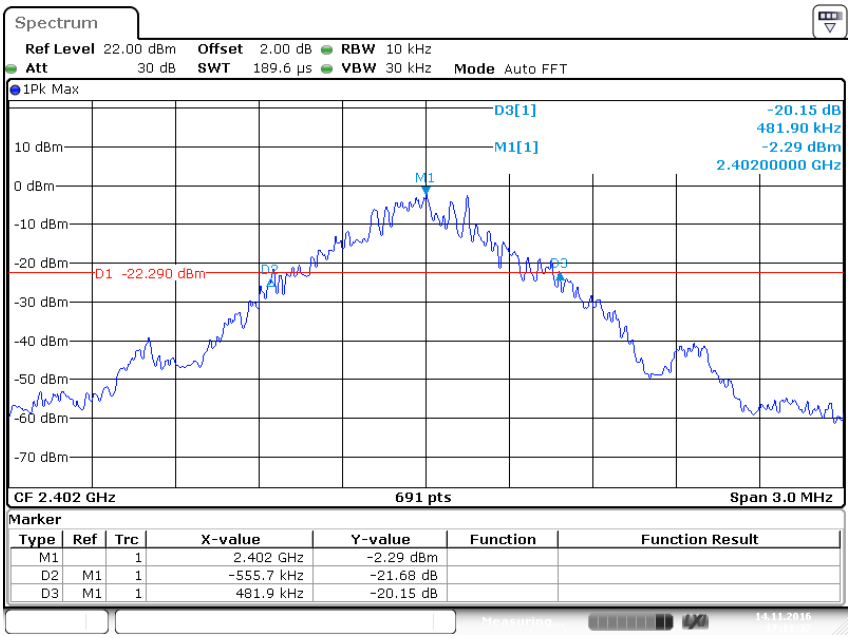
Appendix A.5: Test Plots of 20dB Bandwidth

BDR Mode, DH1



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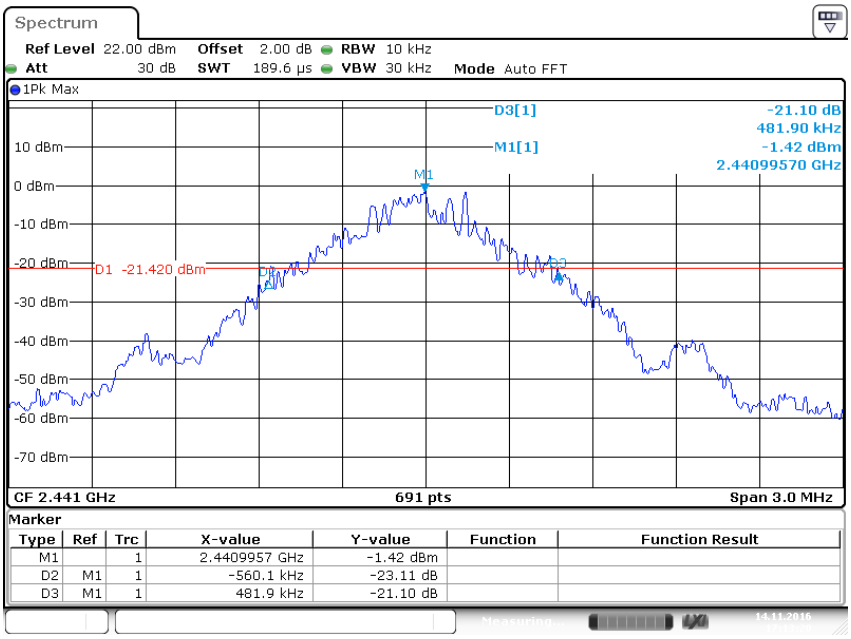

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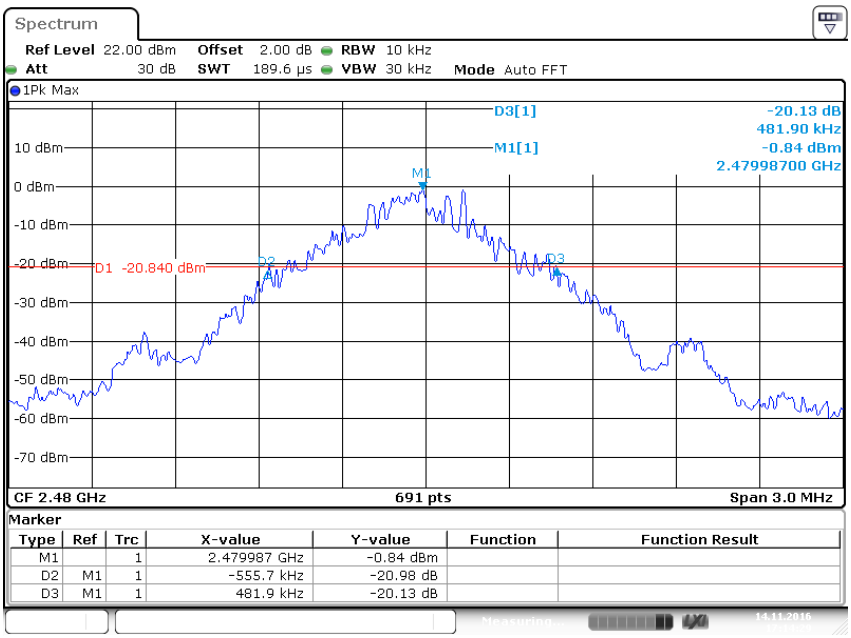
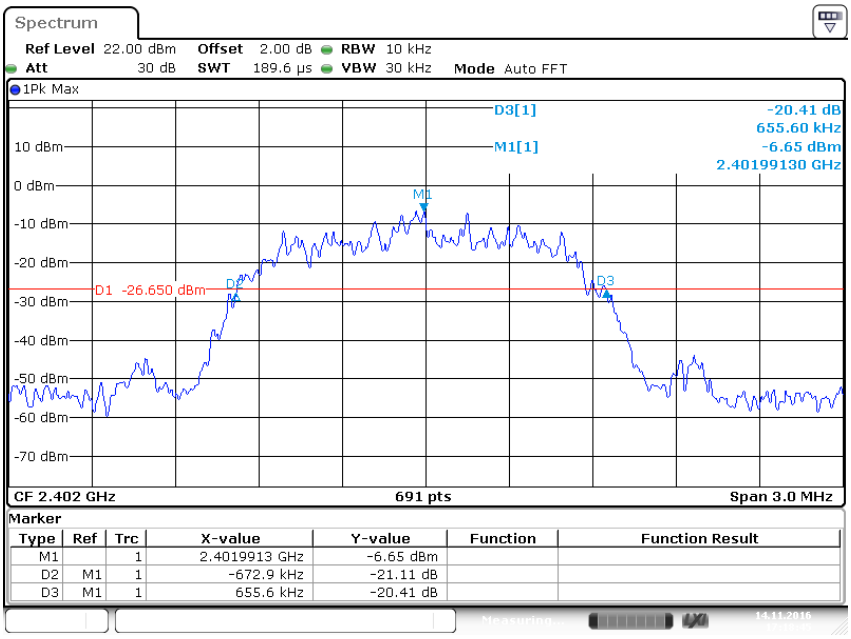


Date: 14.NOV.2016 17:14:29

EDR Mode, 3DH1



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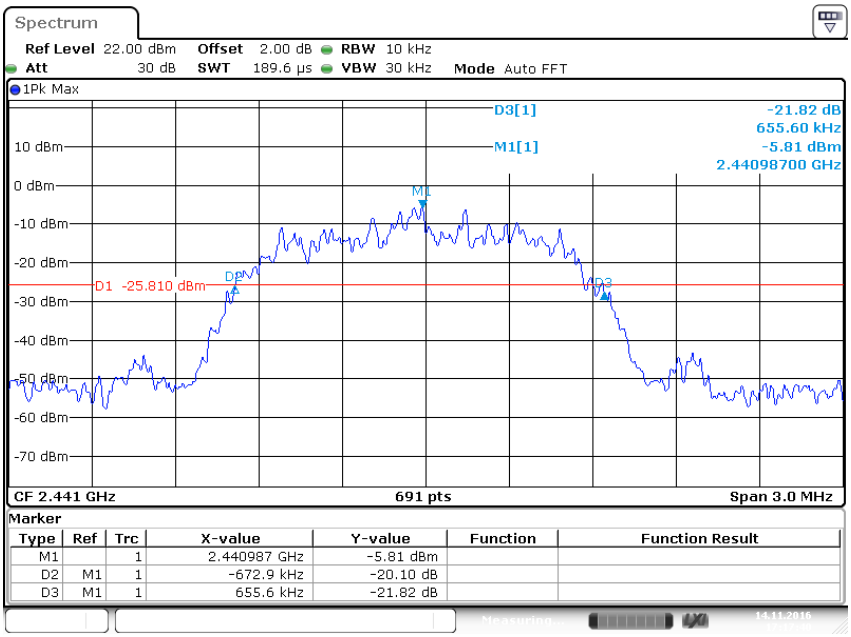

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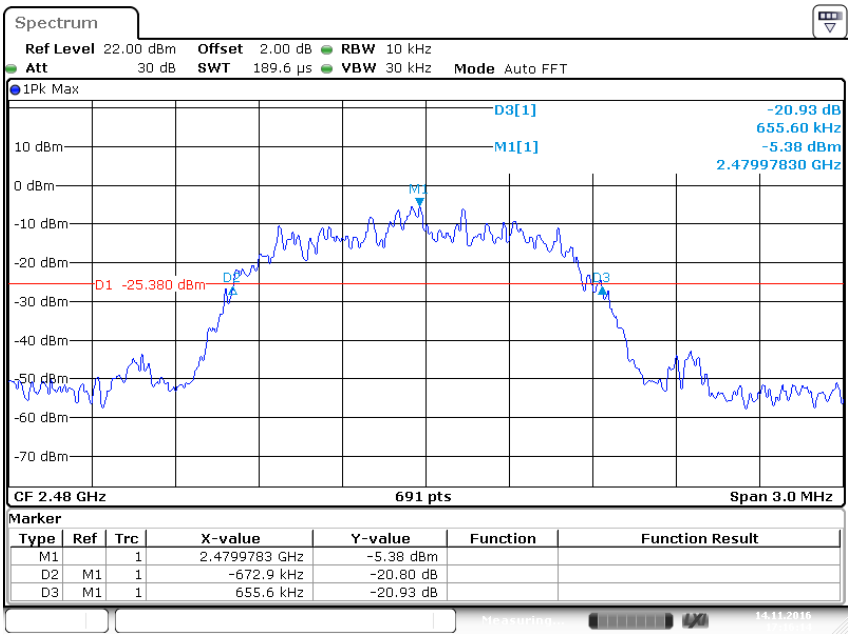

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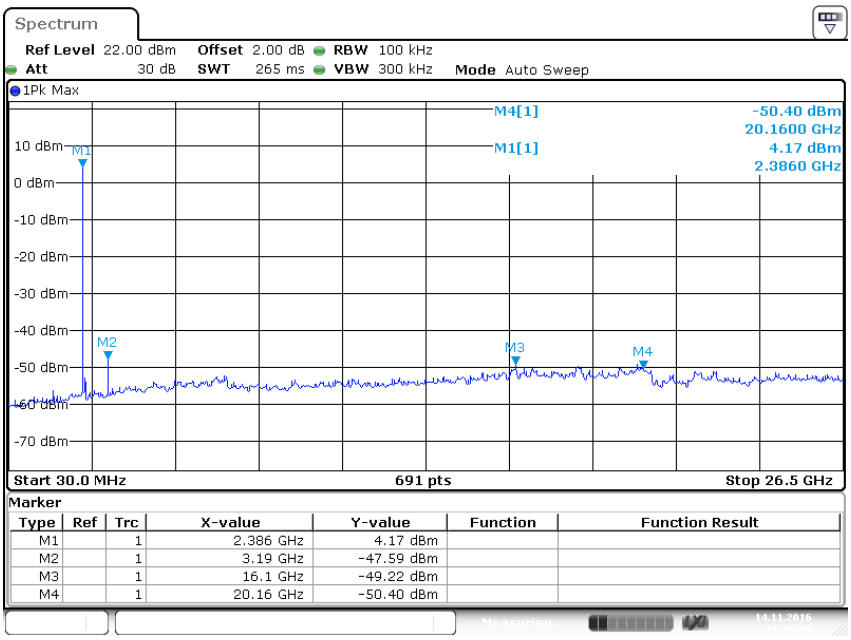
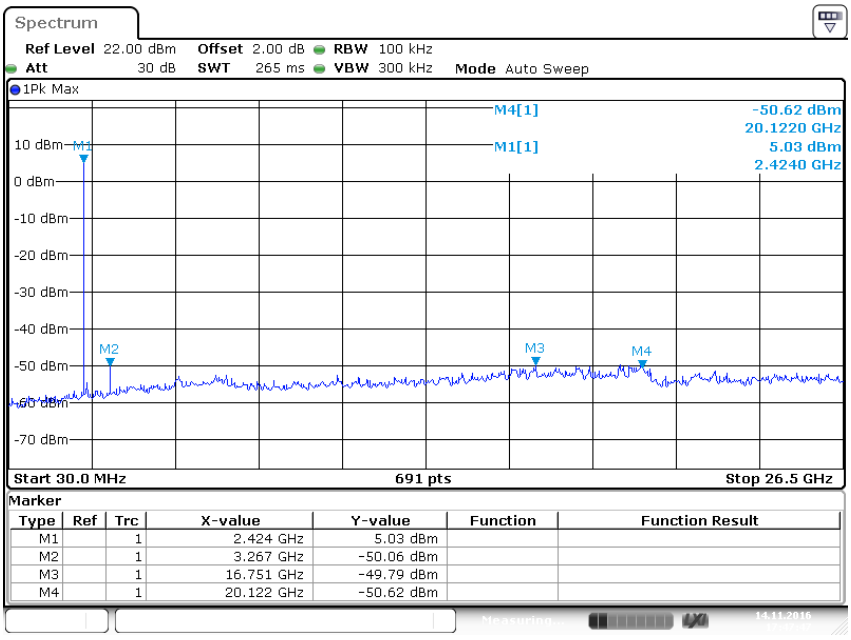
Appendix A.6: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

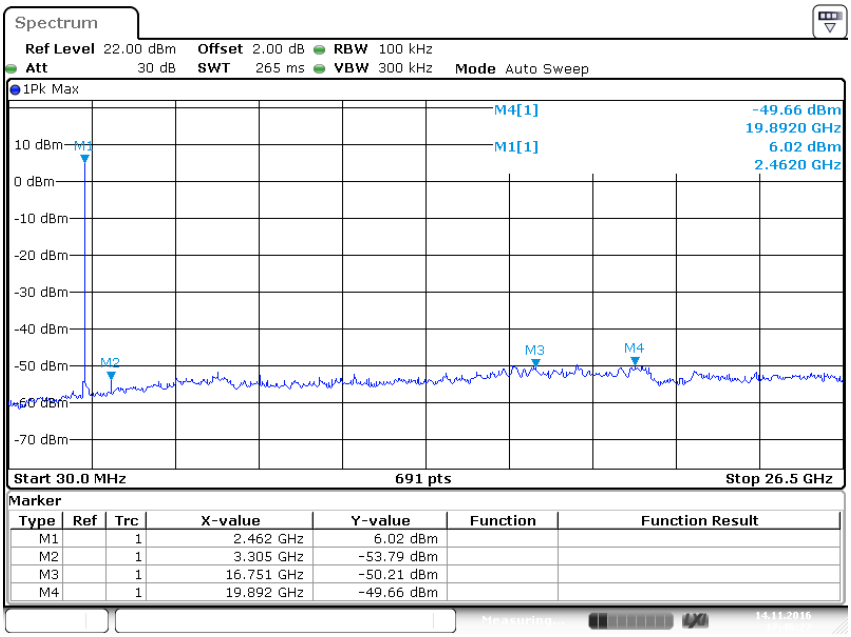
BDR Mode, DH1



Date: 14.NOV.2016 17:48:39

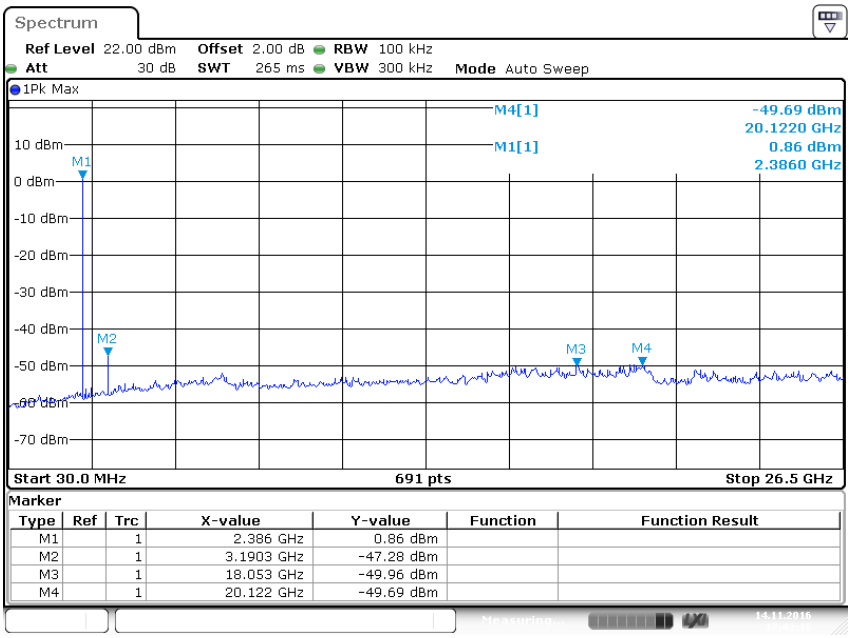


Date: 14.NOV.2016 17:47:47

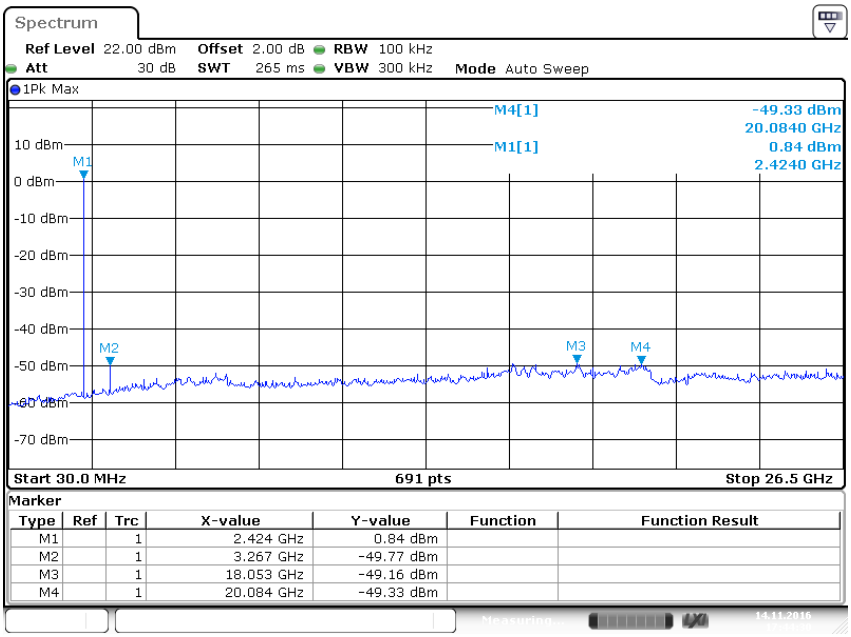


Date: 14.NOV.2016 17:46:27

EDR Mode, 3DH1



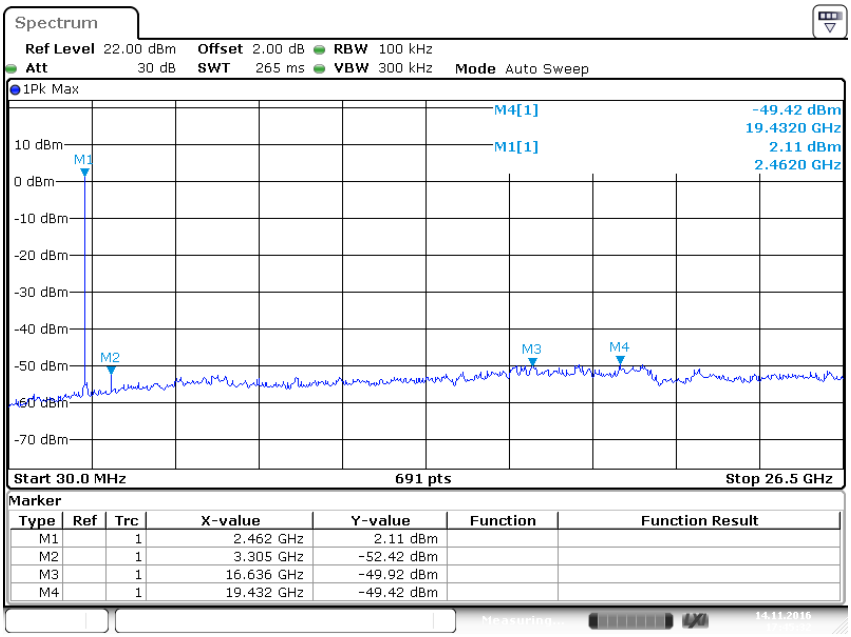
Date: 14.NOV.2016 17:43:16



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.424 GHz	0.84 dBm		
M2		1	3.267 GHz	-49.77 dBm		
M3		1	18.053 GHz	-49.16 dBm		
M4		1	20.084 GHz	-49.33 dBm		

Date: 14.NOV.2016 17:44:30

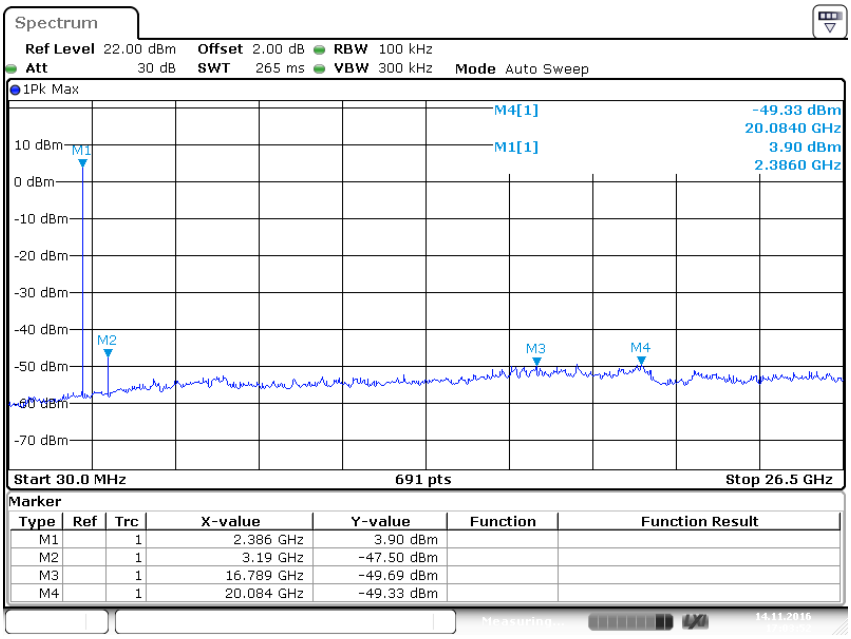


Marker

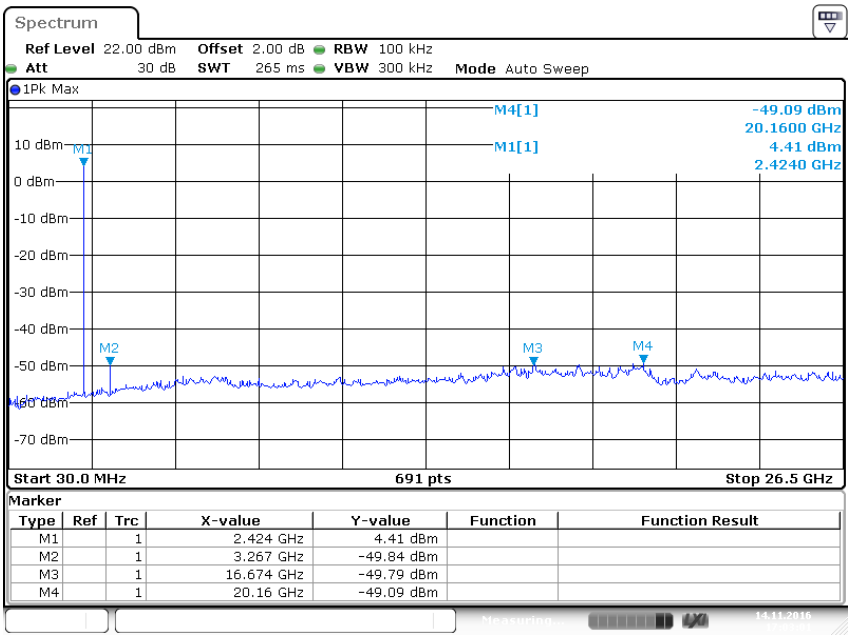
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.462 GHz	2.11 dBm		
M2		1	3.305 GHz	-52.42 dBm		
M3		1	16.636 GHz	-49.92 dBm		
M4		1	19.432 GHz	-49.42 dBm		

Date: 14.NOV.2016 17:45:32

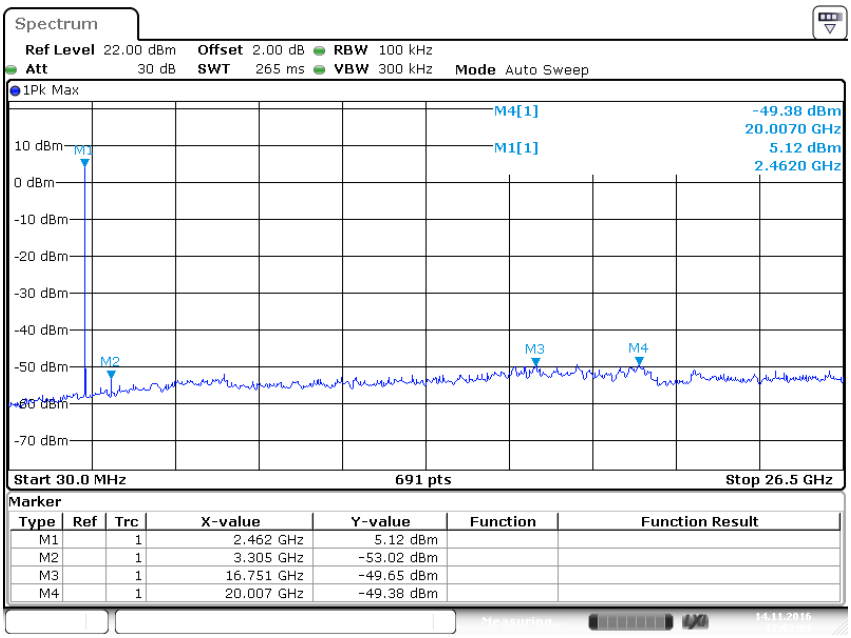
Low Energy Mode



Date: 14.NOV.2016 17:03:52

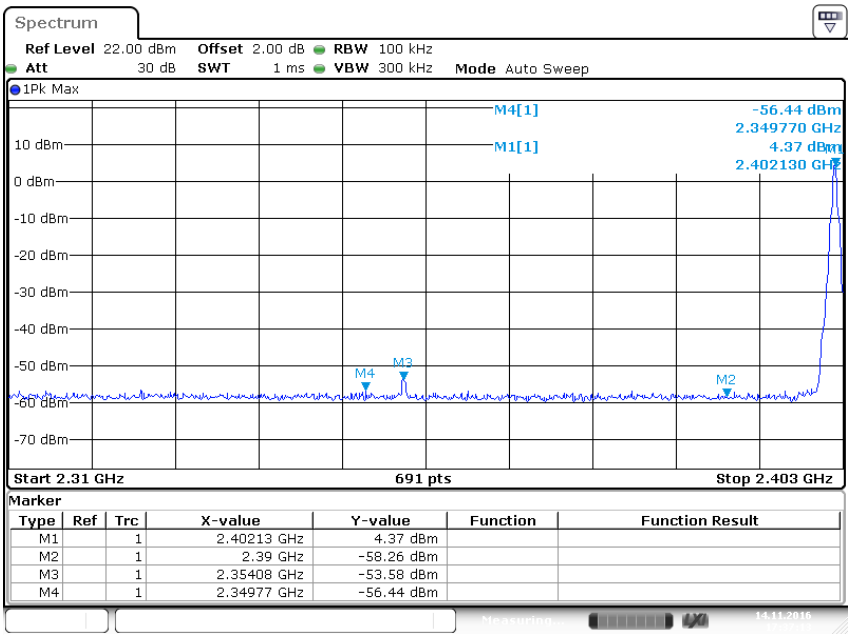


Date: 14.NOV.2016 17:03:01

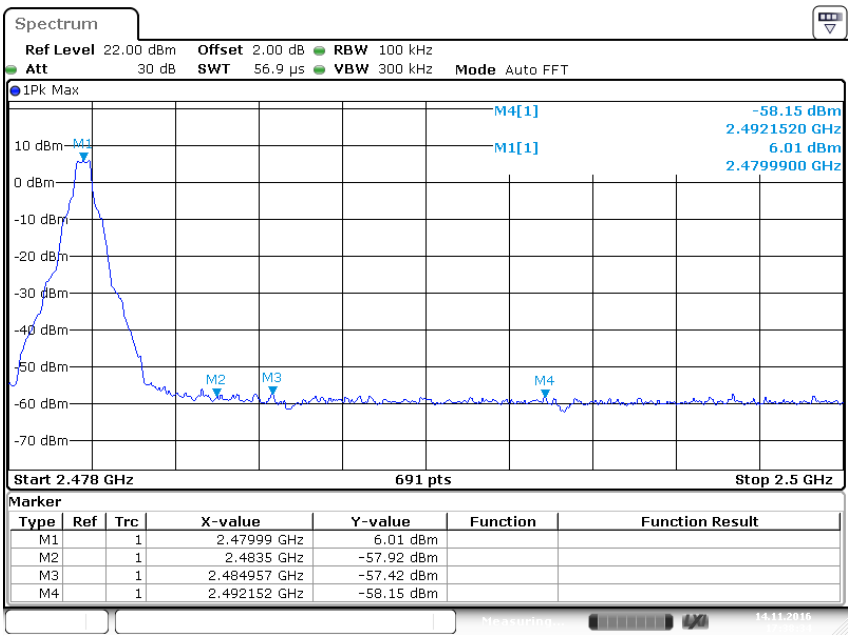


Date: 14.NOV.2016 17:02:01

BDR Mode, Band Edge

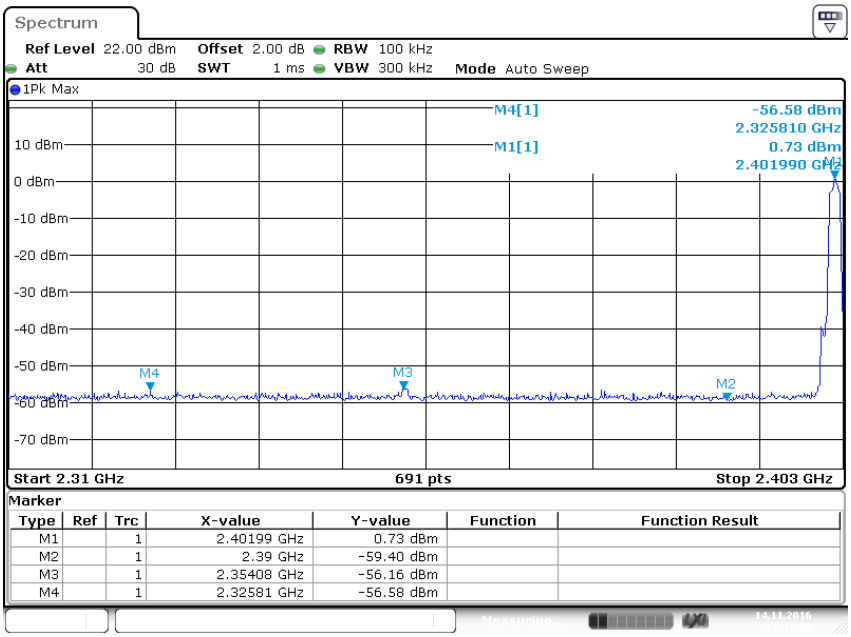


Date: 14.NOV.2016 17:37:13

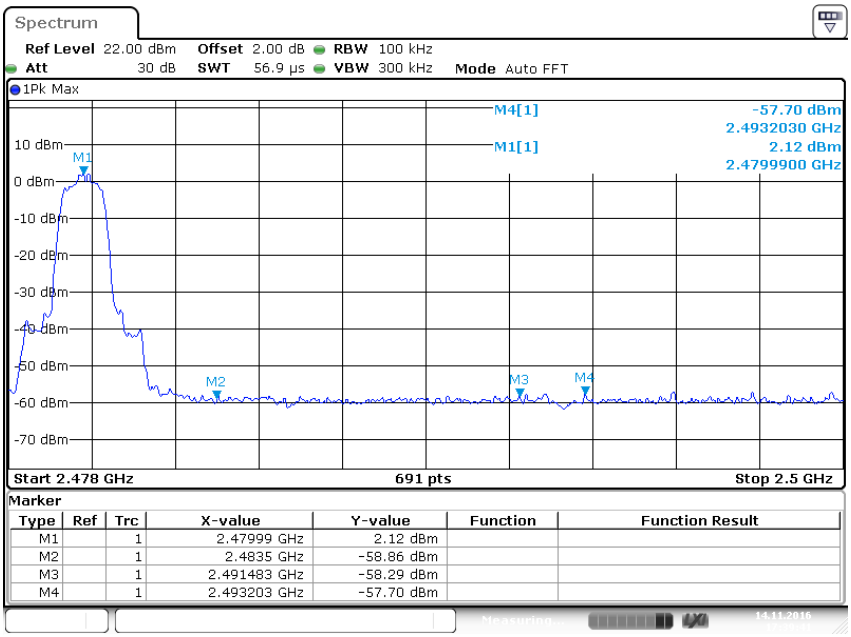


Date: 14.NOV.2016 17:38:34

EDR Mode, Band Edge

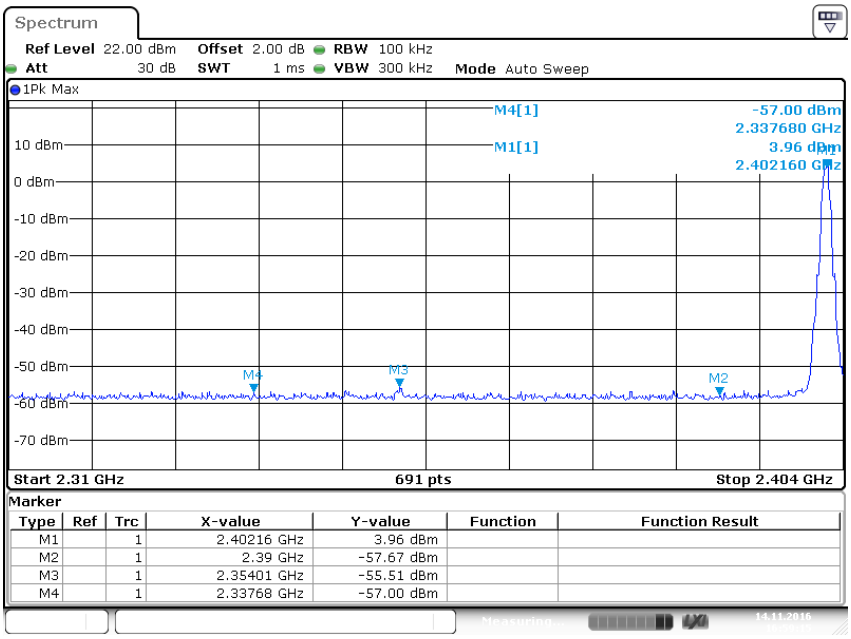


Date: 14.NOV.2016 17:41:05

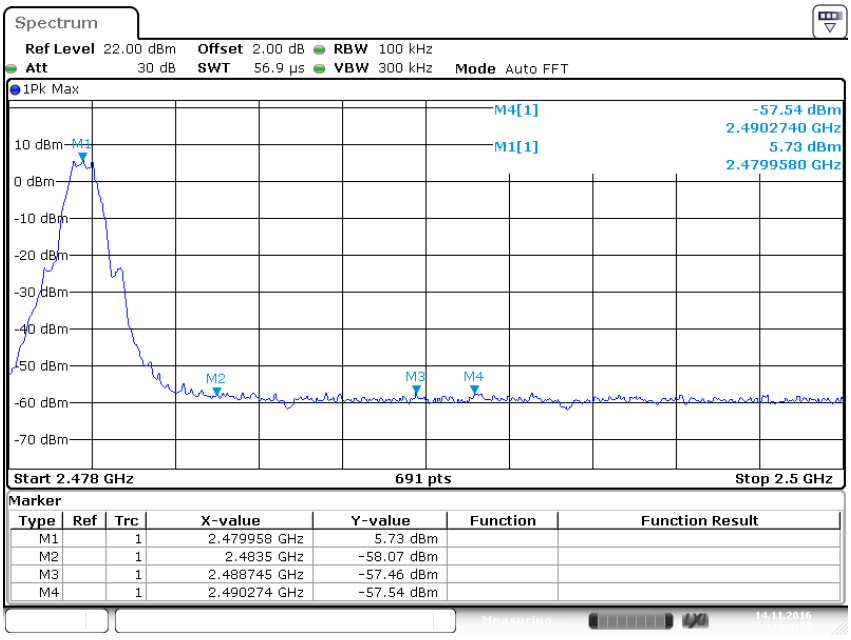


Date: 14.NOV.2016 17:39:41

Low Energy Mode, Band Edge



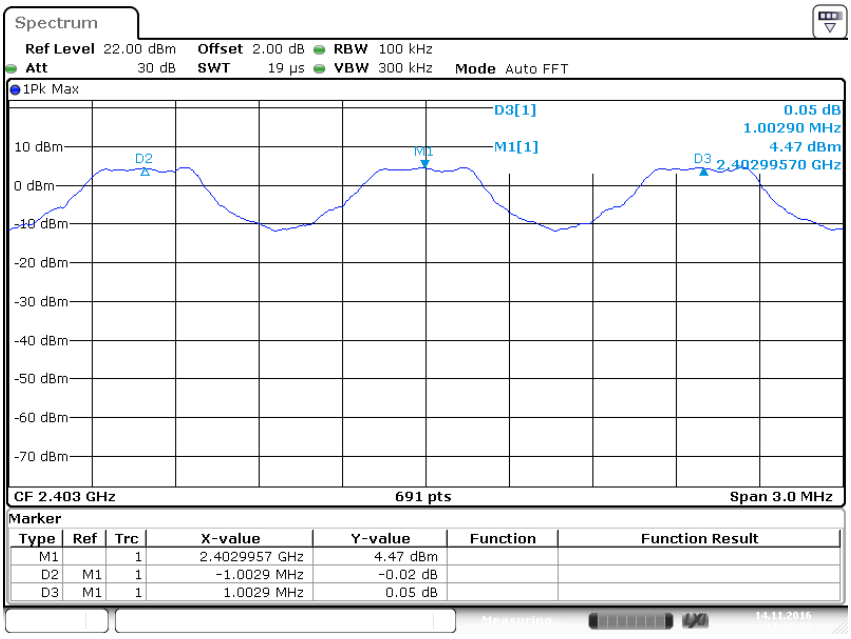
Date: 14.NOV.2016 16:59:15



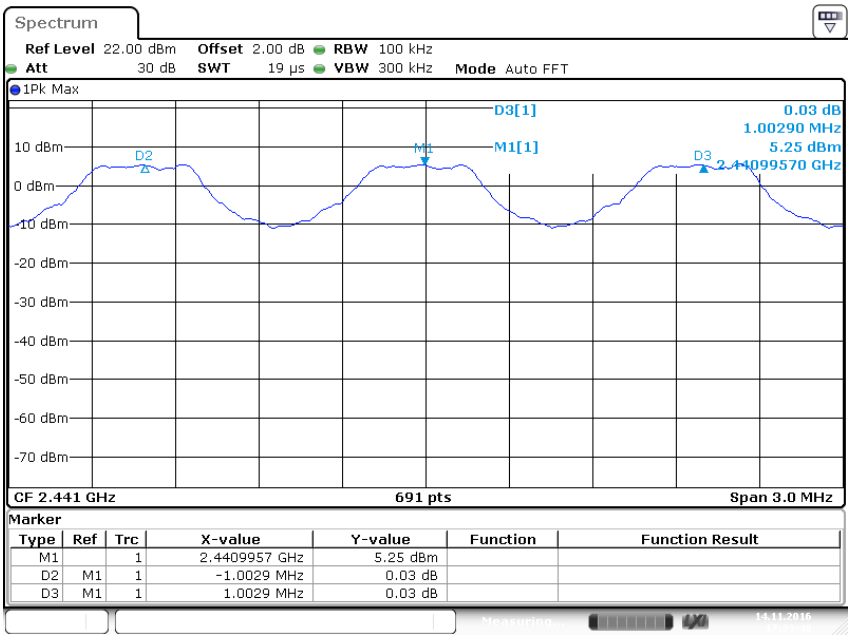
Date: 14.NOV.2016 17:00:36

Appendix A.7: Test Plots of Carrier Frequency Separation

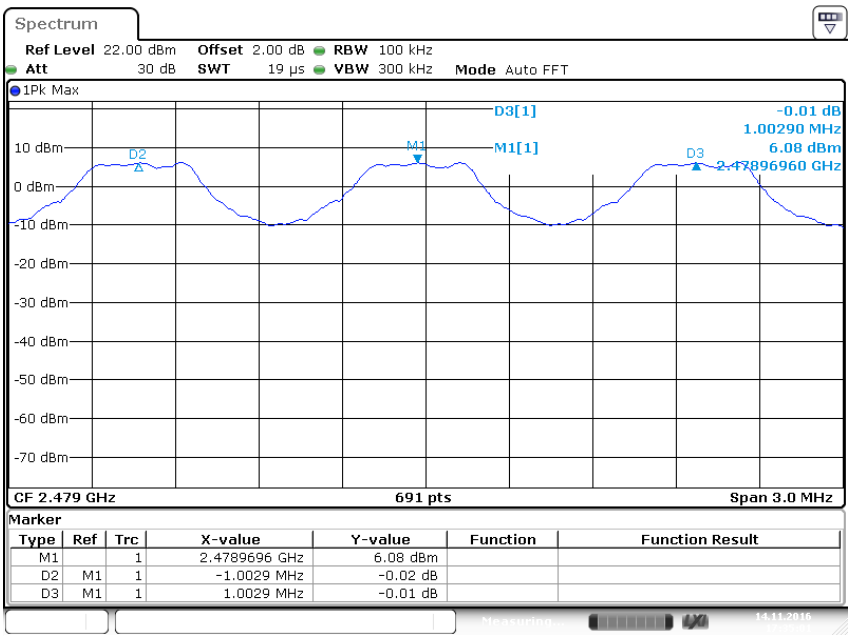
Hopping Mode



Date: 14.NOV.2016 17:32:33



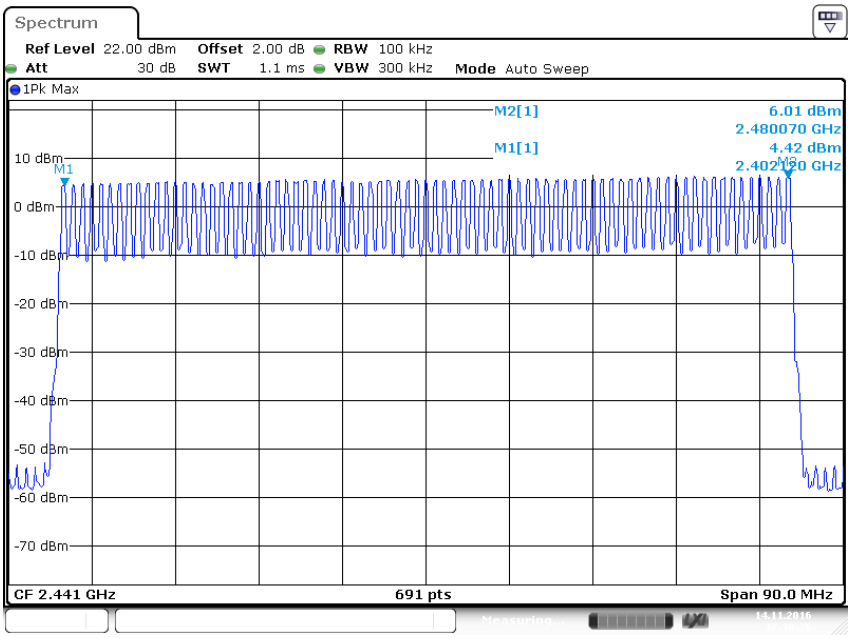
Date: 14.NOV.2016 17:33:48



Date: 14.NOV.2016 17:35:01

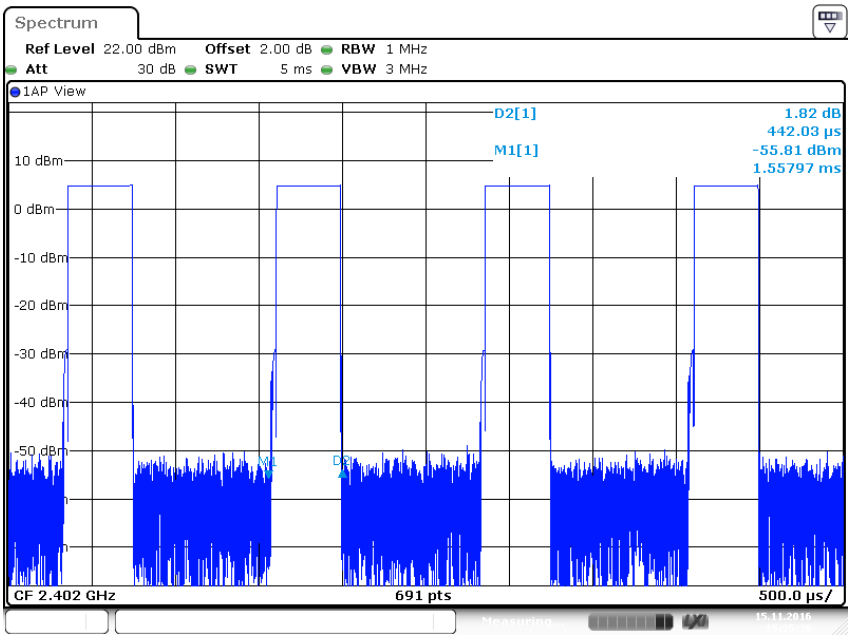
Appendix A.8: Test Plots of Number of Hopping Frequency

Hopping Mode

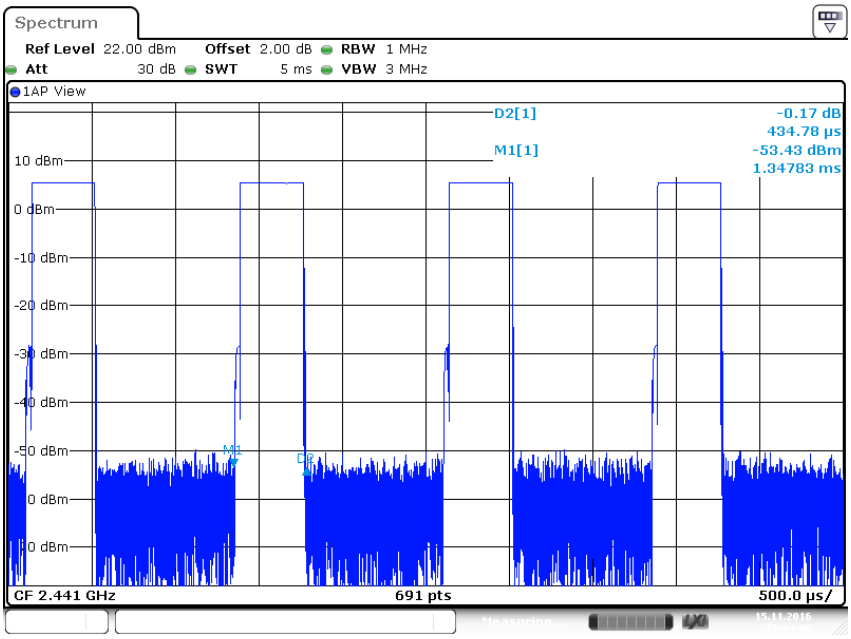


Appendix A.9: Test Plots of Time of Occupancy

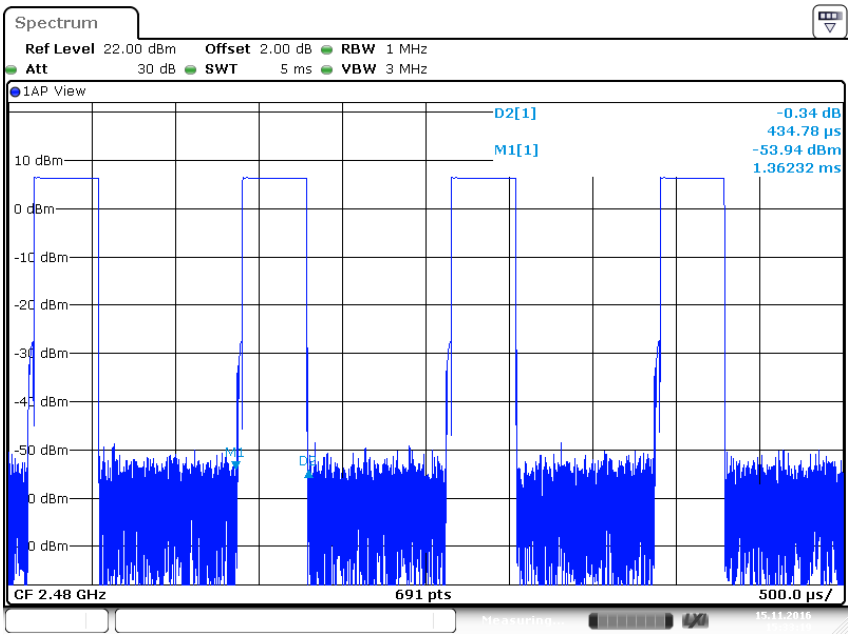
BDR Mode, DH1



Date: 15.NOV.2016 15:35:36

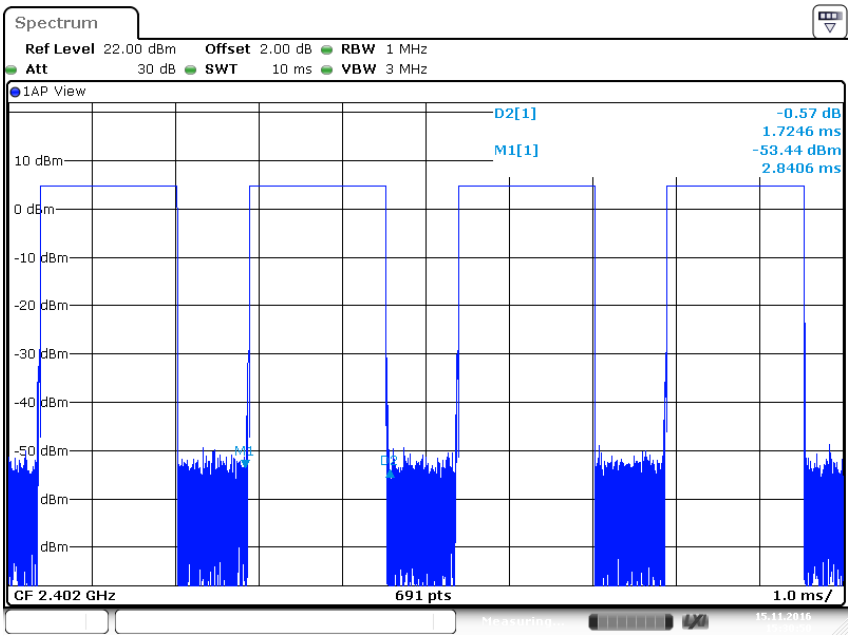


Date: 15.NOV.2016 15:34:06

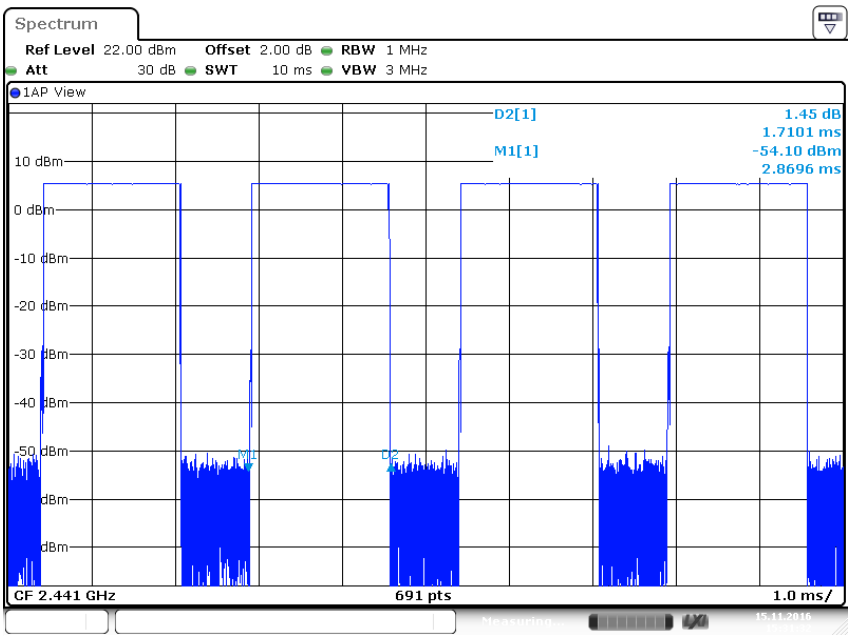


Date: 15.NOV.2016 15:33:19

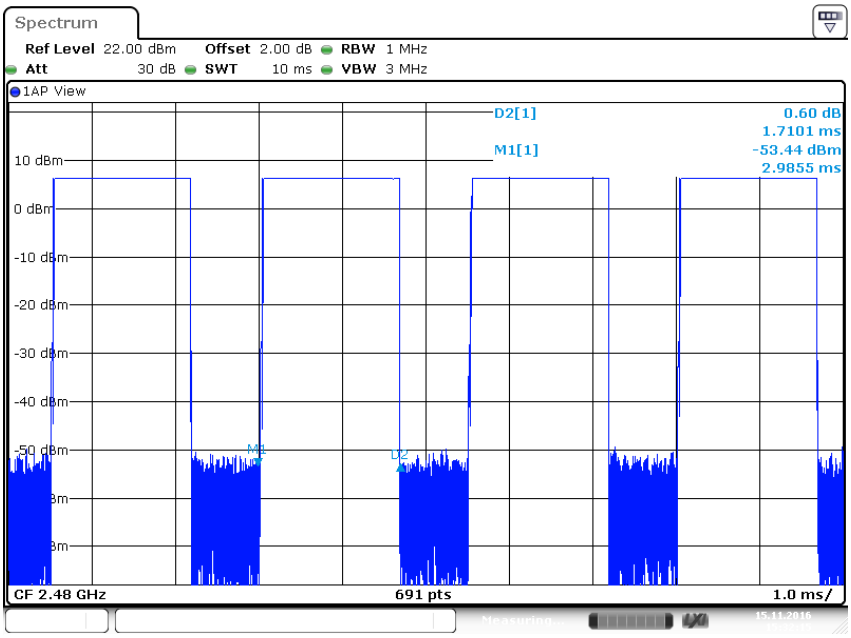
BDR Mode, DH3



Date: 15.NOV.2016 15:30:50

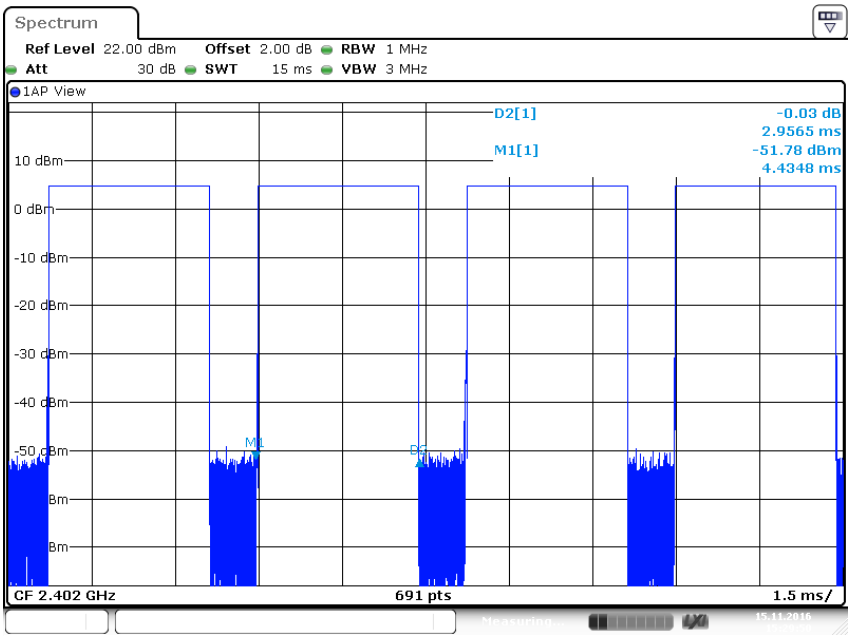


Date: 15.NOV.2016 15:31:32

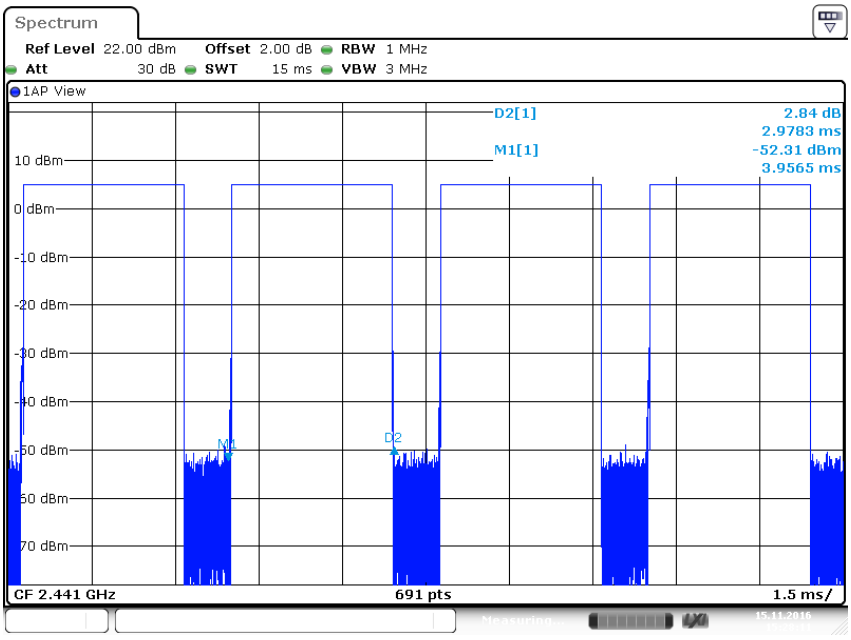


Date: 15.NOV.2016 15:32:15

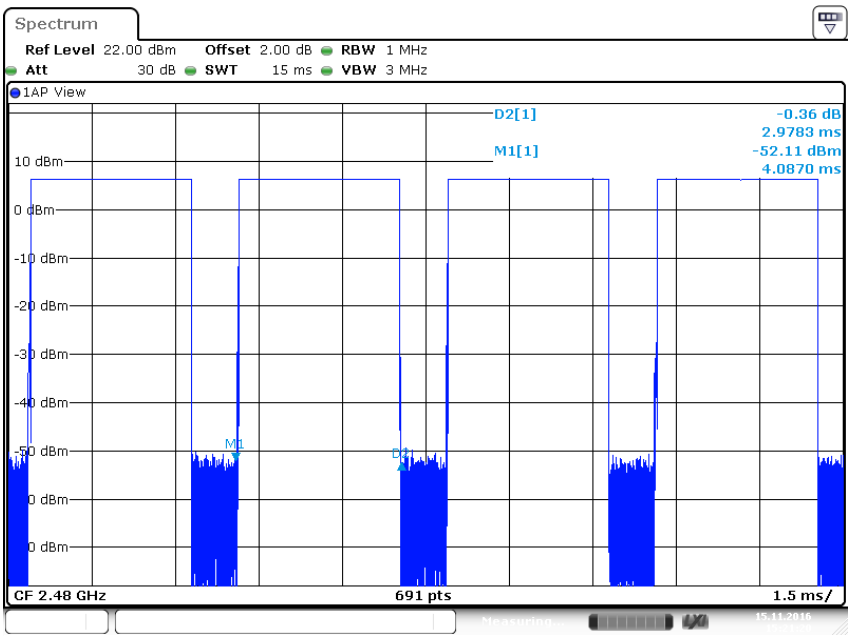
BDR Mode, DH5



Date: 15.NOV.2016 15:29:50

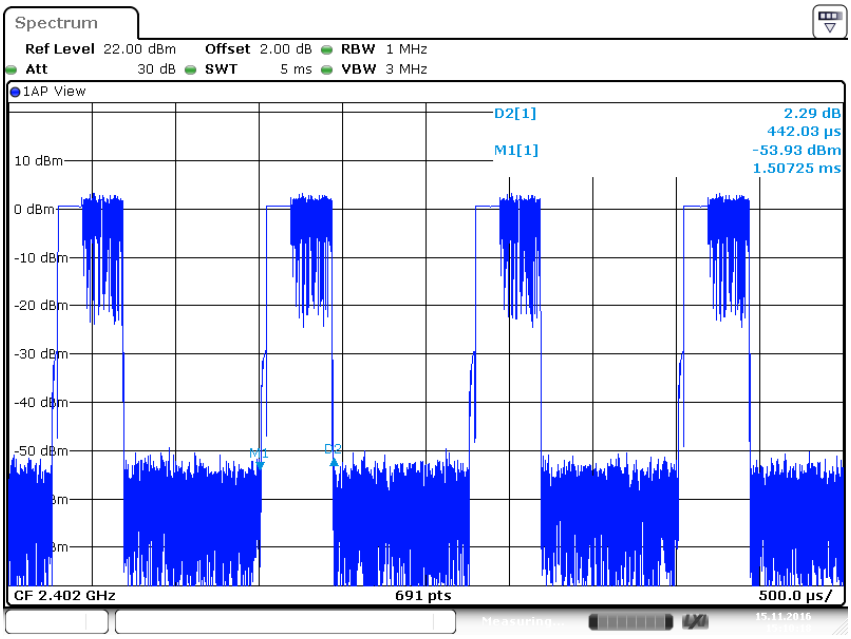


Date: 15.NOV.2016 15:28:11

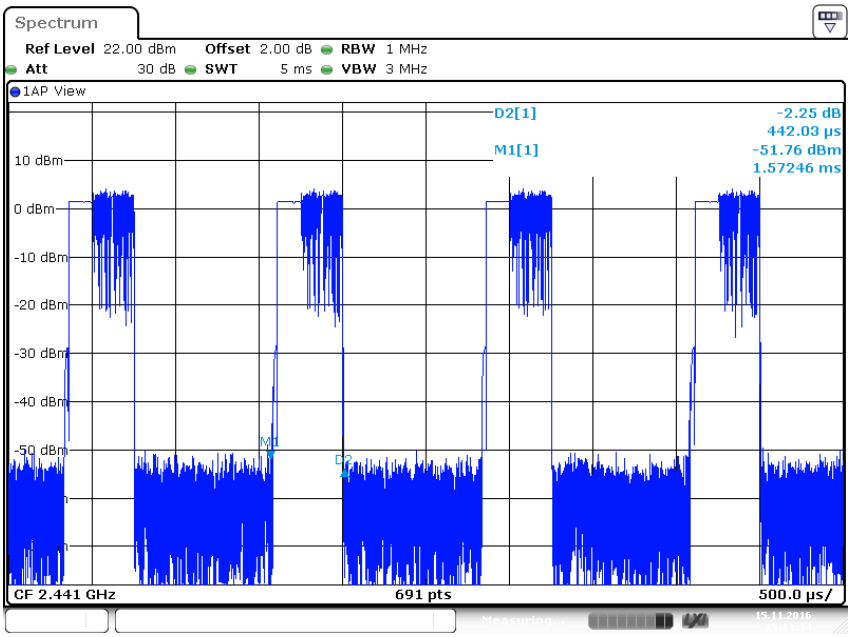


Date: 15.NOV.2016 15:21:20

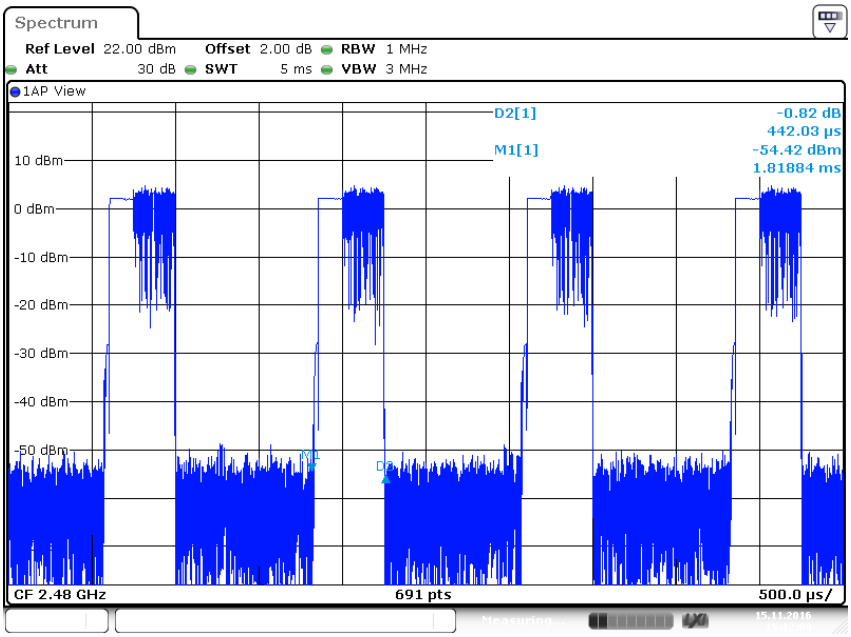
EDR Mode, 3DH1



Date: 15.NOV.2016 15:10:18

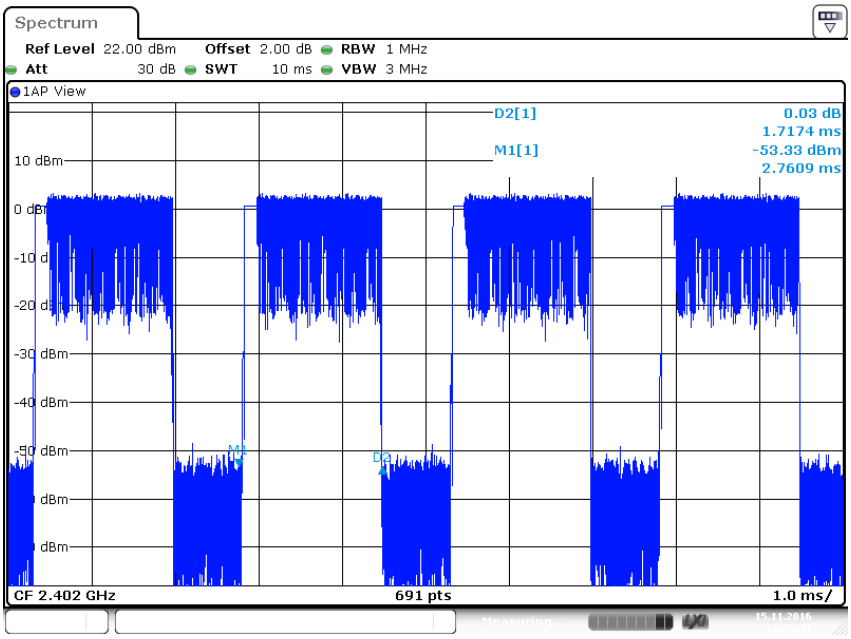


Date: 15.NOV.2016 15:11:34

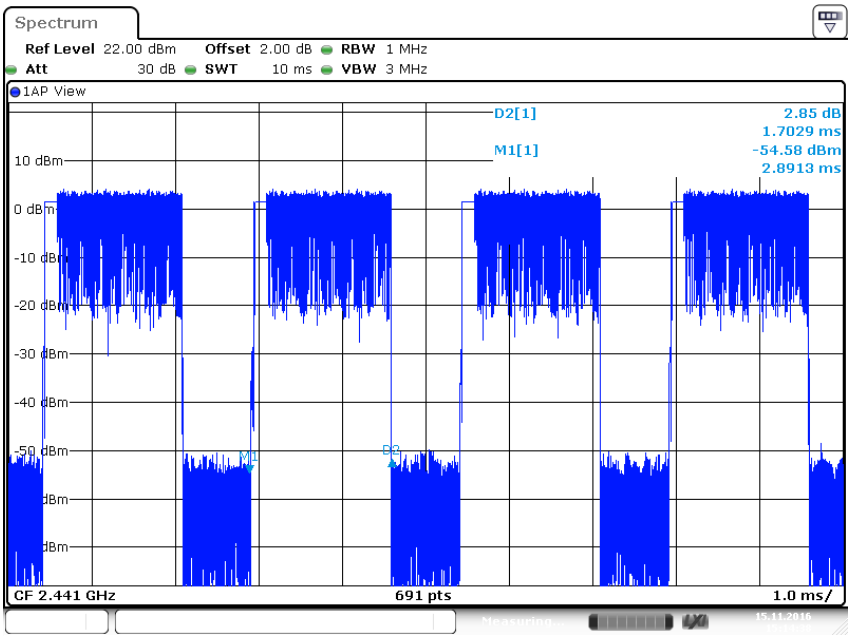


Date: 15.NOV.2016 15:12:09

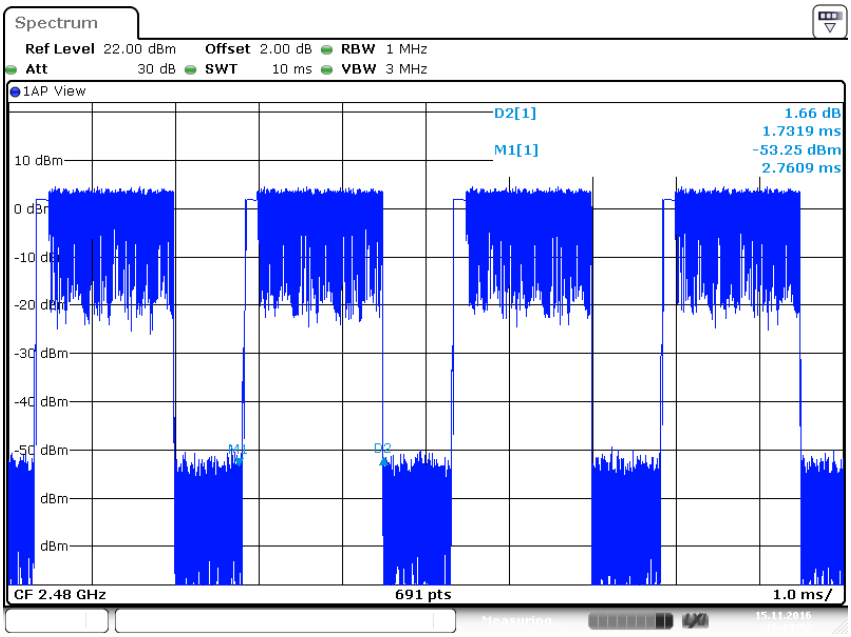
EDR Mode, 3DH3



Date: 15.NOV.2016 15:15:41

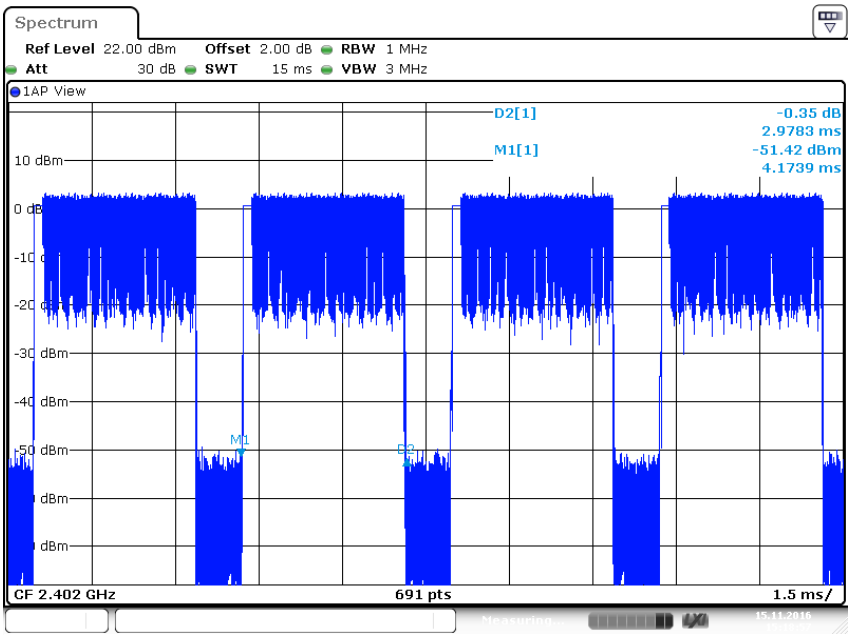


Date: 15.NOV.2016 15:14:38

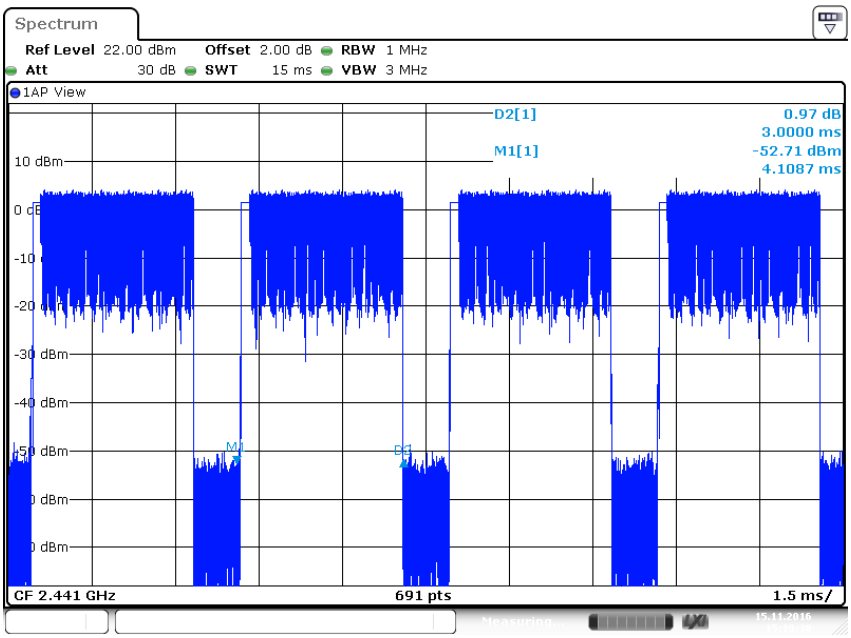


Date: 15.NOV.2016 15:13:52

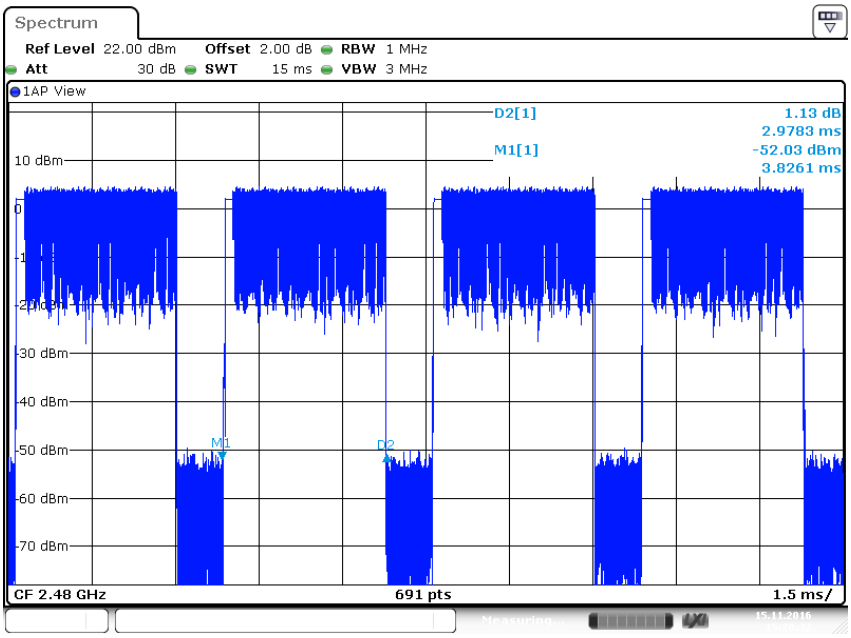
EDR Mode, 3DH5



Date: 15.NOV.2016 15:18:57



Date: 15.NOV.2016 15:19:38



Date: 15.NOV.2016 15:20:32

Appendix B

Test Results of Bluetooth 4.0 (Dual mode) of Conducted and Radiated Emission Testing

APPENDIX B 1

APPENDIX B.1: TEST PLOTS OF RADIATED SPURIOUS EMISSION 2
BDR mode, 30MHz - 1GHz 2
BDR mode, 1GHz - 18GHz 8
Low Energy mode, 30MHz - 1GHz 14
Low Energy mode, 1GHz - 18GHz 20
APPENDIX B.2: TEST PLOTS OF BAND EDGE (RADIATED) 26
BDR mode, Low Channel 26
BDR mode, High Channel 28
Low Energy mode, Low Channel 30
Low Energy mode, High Channel 32
APPENDIX B.3: TEST PLOTS OF CONDUCTED EMISSION 34
C Mode 34

NOTE
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so Radiated Spurious Emissions up to 30MHz and above 18GHz tests were not reported.

Appendix B.1: Test Plots of Radiated Spurious Emission

BDR mode, 30MHz - 1GHz

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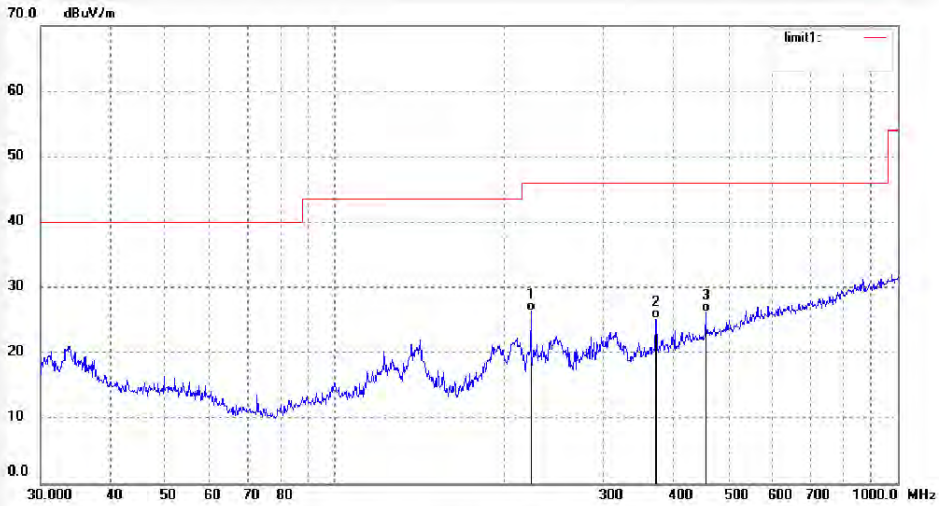
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGWADE #4225	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	222.9499	37.64	-11.35	26.29	46.00	-19.71	QP			
2	372.0045	32.28	-7.13	25.15	46.00	-20.85	QP			
3	455.9057	31.33	-5.25	26.08	46.00	-19.92	QP			

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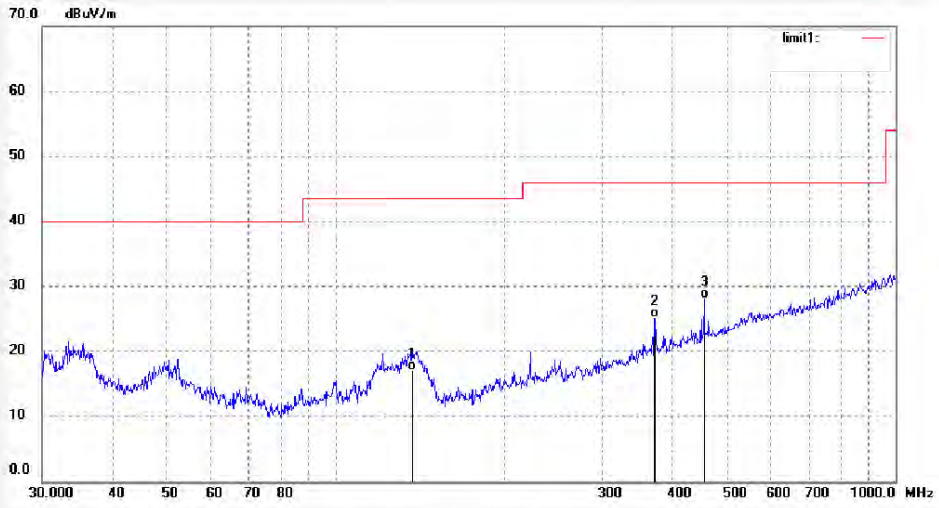
Job No.: LGWADE #4226	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	137.4200	31.56	-14.53	17.03	43.50	-26.47	QP			
2	372.0045	32.33	-7.13	25.20	46.00	-20.80	QP			
3	455.9057	33.41	-5.25	28.16	46.00	-17.84	QP			

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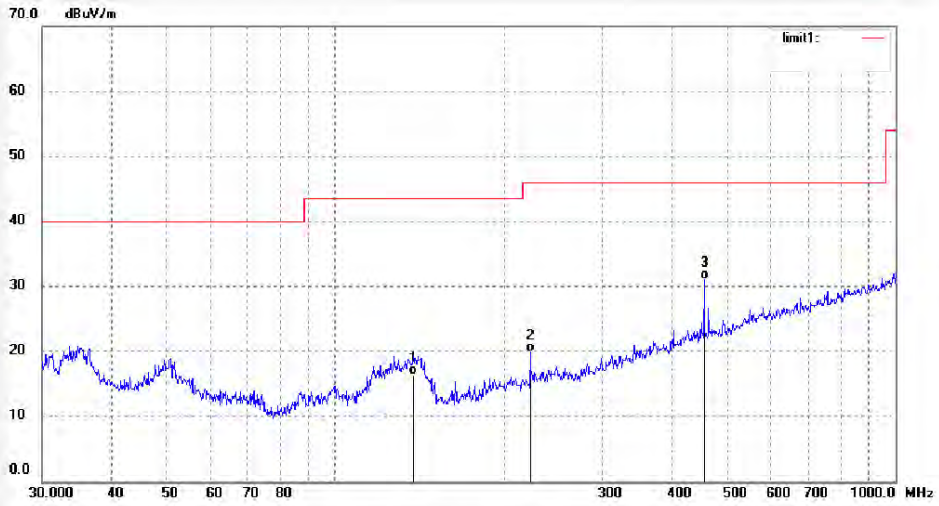
Fax:+86-0755-26503396

Job No.: LGWADE #4227	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	137.9028	31.02	-14.64	16.38	43.50	-27.12	QP			
2	222.9500	31.20	-11.35	19.85	46.00	-26.15	QP			
3	455.9057	36.32	-5.25	31.07	46.00	-14.93	QP			

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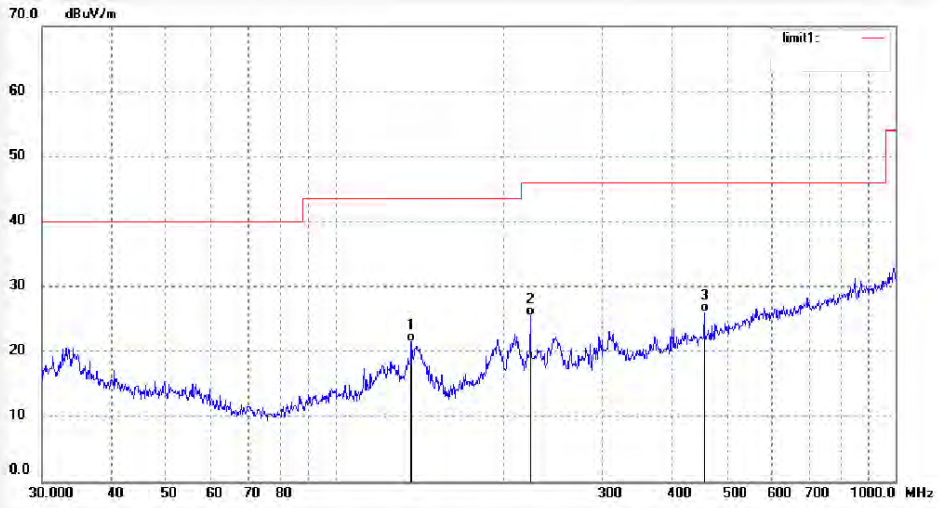
Fax:+86-0755-26503396

Job No.: LGWADE #4228	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	136.9390	35.85	-14.41	21.44	43.50	-22.06	QP			
2	222.9500	36.75	-11.35	25.40	46.00	-20.60	QP			
3	455.9057	31.21	-5.25	25.96	46.00	-20.04	QP			

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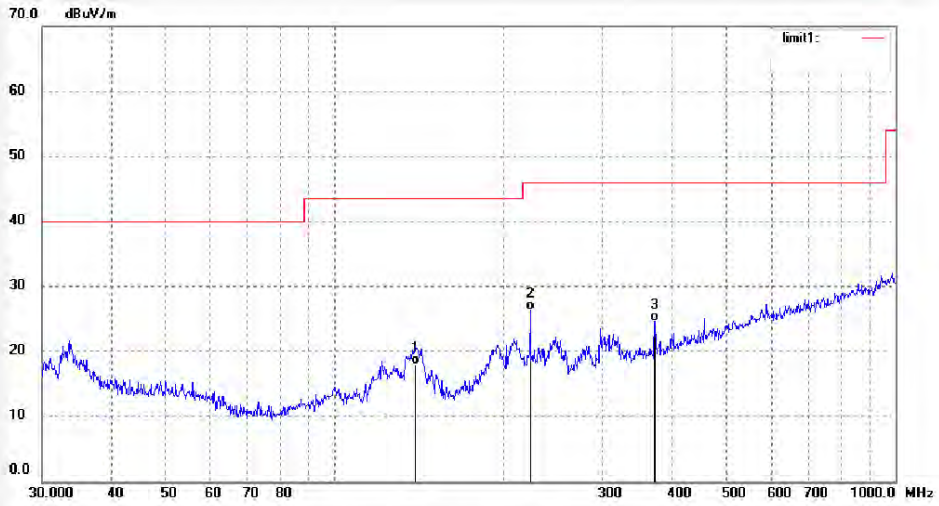
Fax:+86-0755-26503396

Job No.: LGWADE #4229	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	139.3611	32.90	-14.97	17.93	43.50	-25.57	QP			
2	222.9500	37.75	-11.35	26.40	46.00	-19.60	QP			
3	372.0045	31.66	-7.13	24.53	46.00	-21.47	QP			

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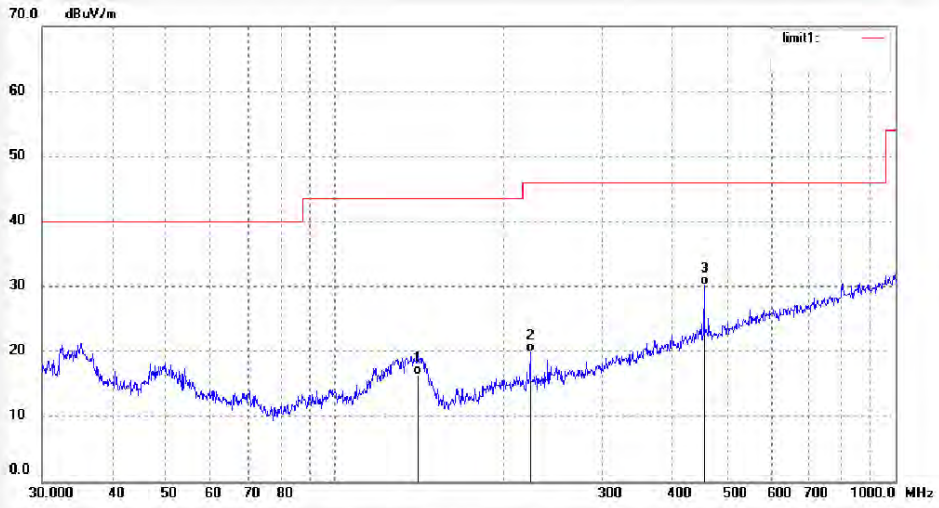
Job No.: LGWADE #4230	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	140.8351	31.58	-15.13	16.45	43.50	-27.05	QP			
2	222.9500	31.15	-11.35	19.80	46.00	-26.20	QP			
3	455.9057	35.36	-5.25	30.11	46.00	-15.89	QP			

BDR mode, 1GHz - 18GHz

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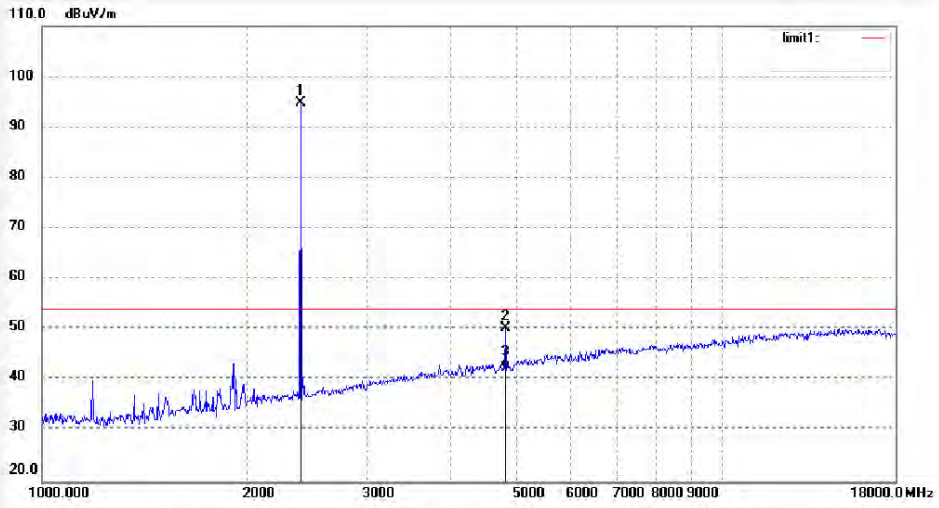
Job No.: LGWADE #4205
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2402MHz
Model: P-PLA-103-YIT-02

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	96.40	-1.61	94.79	/	/	peak			
2	4804.025	45.36	4.90	50.26	74.00	-23.74	peak			
3	4804.025	37.44	4.90	42.34	54.00	-11.66	AVG			

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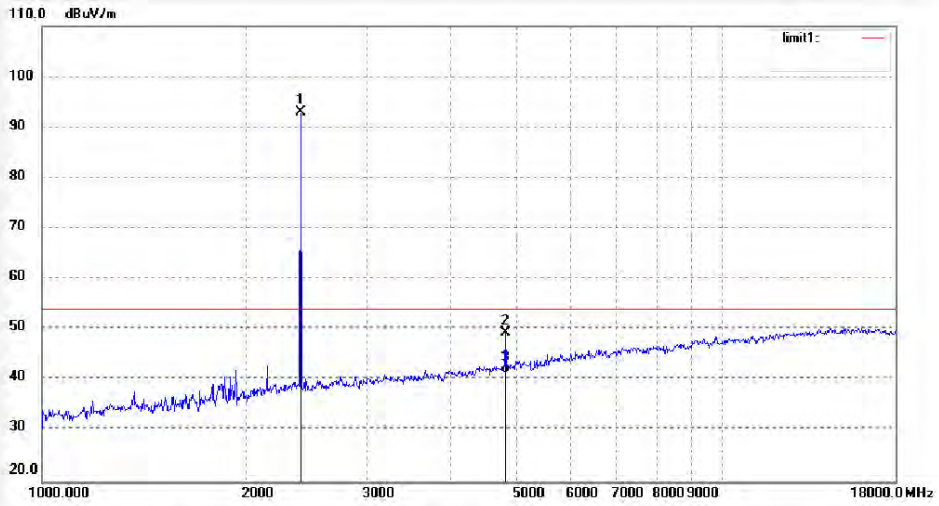
Job No.: LGWADE #4206	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.67	-1.61	93.06	/	/	peak			
2	4804.024	44.47	4.90	49.37	74.00	-24.63	peak			
3	4804.024	36.33	4.90	41.23	54.00	-12.77	AVG			

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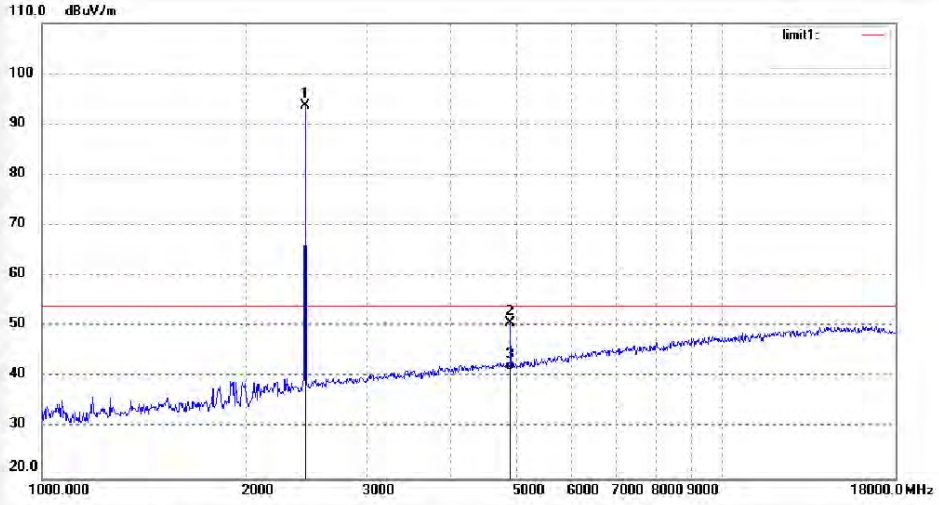
Job No.: LGWADE #4209
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2441MHz
Model: P-PLA-103-YIT-02

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	95.09	-1.44	93.65	/	/	peak			
2	4882.029	45.14	5.61	50.75	74.00	-23.25	peak			
3	4882.029	35.73	5.61	41.34	54.00	-12.66	AVG			

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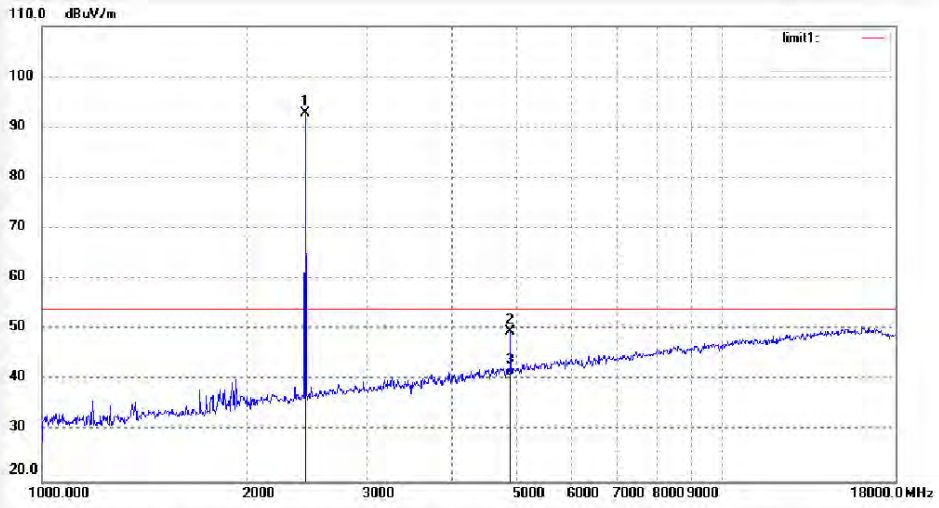
Job No.: LGWADE #4210	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2441MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	94.28	-1.44	92.84	/	/	peak			
2	4882.025	43.91	5.61	49.52	74.00	-24.48	peak			
3	4882.025	35.13	5.61	40.74	54.00	-13.26	AVG			

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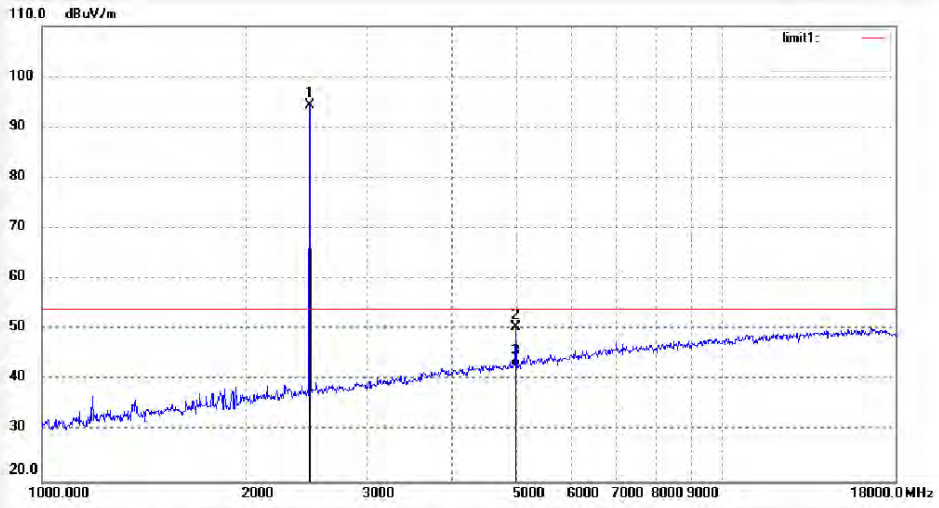
Job No.: LGWADE #4211	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.75	-1.40	94.35	/	/	peak			
2	4960.028	44.35	6.10	50.45	74.00	-23.55	peak			
3	4960.028	36.55	6.10	42.65	54.00	-11.35	AVG			

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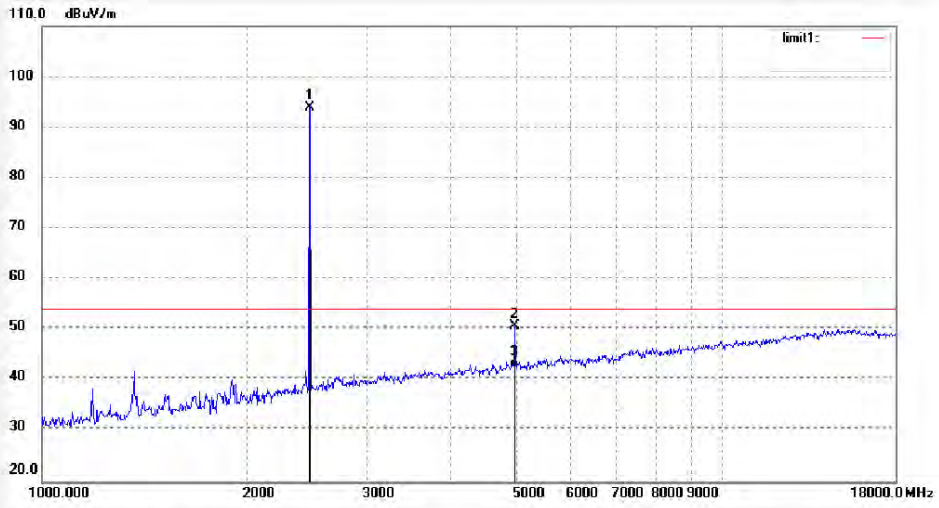
Job No.: LGWADE #4212	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.36	-1.40	93.96	/	/	peak			
2	4960.027	44.71	6.10	50.81	74.00	-23.19	peak			
3	4960.027	36.25	6.10	42.35	54.00	-11.65	AVG			

Low Energy mode, 30MHz - 1GHz

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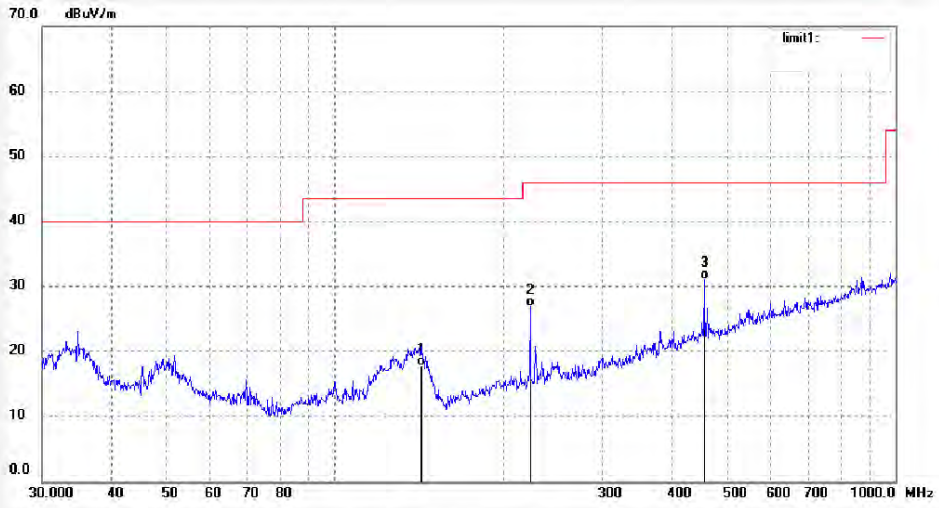
Job No.: LGWADE #4231
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2402MHz
Model: P-PLA-103-YIT-02

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/11/23/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	142.8242	32.87	-15.11	17.76	43.50	-25.74	QP			
2	222.9500	38.28	-11.35	26.93	46.00	-19.07	QP			
3	455.9057	36.24	-5.25	30.99	46.00	-15.01	QP			

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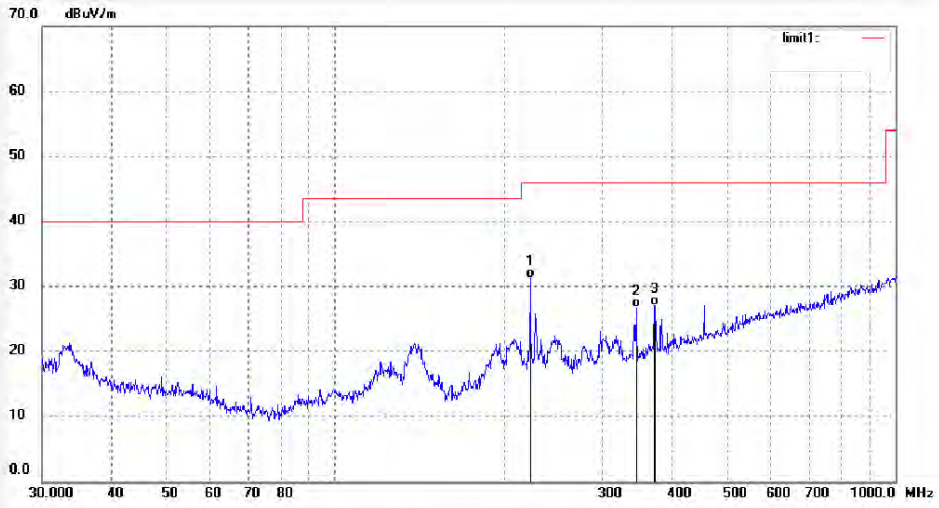
Job No.: LGWADE #4232	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	222.9500	42.51	-11.35	31.16	46.00	-14.84	QP			
2	344.3854	34.22	-7.57	26.65	46.00	-19.35	QP			
3	372.0045	34.19	-7.13	27.06	46.00	-18.94	QP			

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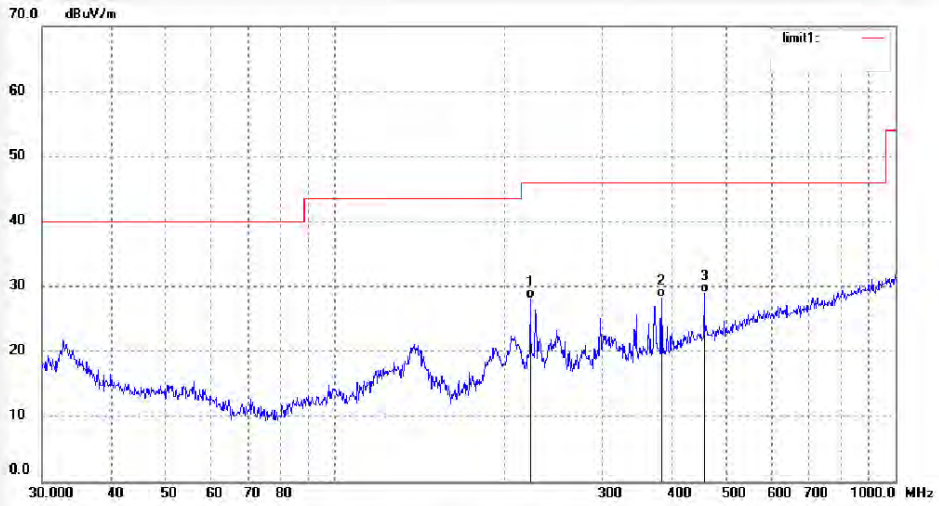
Job No.: LGWADE #4233	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	222.9500	39.51	-11.35	28.16	46.00	-17.84	QP			
2	382.5878	35.12	-6.94	28.18	46.00	-17.82	QP			
3	455.9057	34.22	-5.25	28.97	46.00	-17.03	QP			

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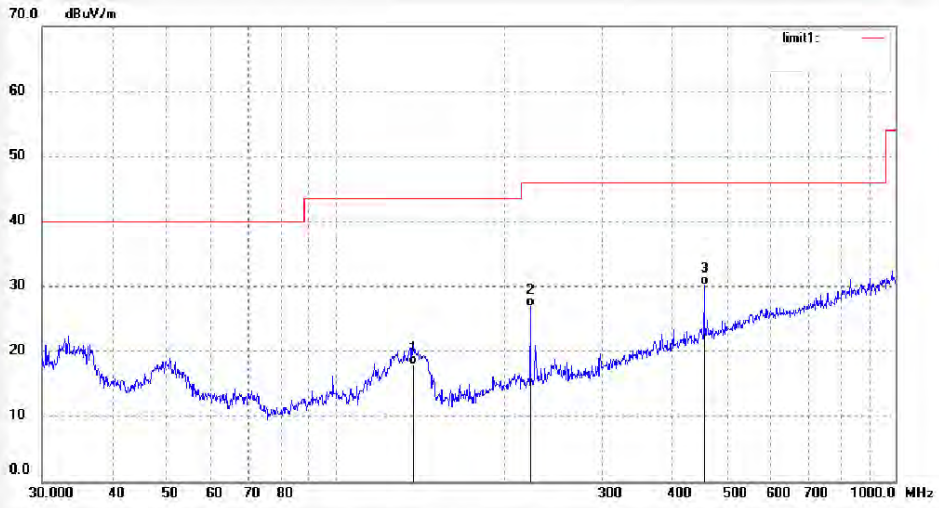
Job No.: LGWADE #4234	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	137.9028	32.50	-14.64	17.86	43.50	-25.64	QP			
2	222.9500	38.22	-11.35	26.87	46.00	-19.13	QP			
3	455.9057	35.42	-5.25	30.17	46.00	-15.83	QP			

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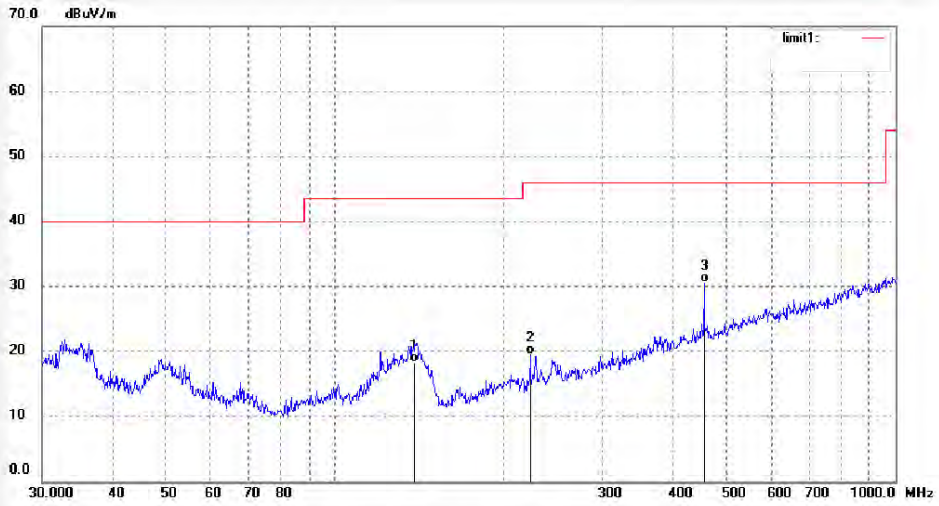
Job No.: LGWADE #4235	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	138.8735	33.17	-14.87	18.30	43.50	-25.20	QP			
2	222.9500	30.92	-11.35	19.57	46.00	-26.43	QP			
3	455.9057	35.77	-5.25	30.52	46.00	-15.48	QP			

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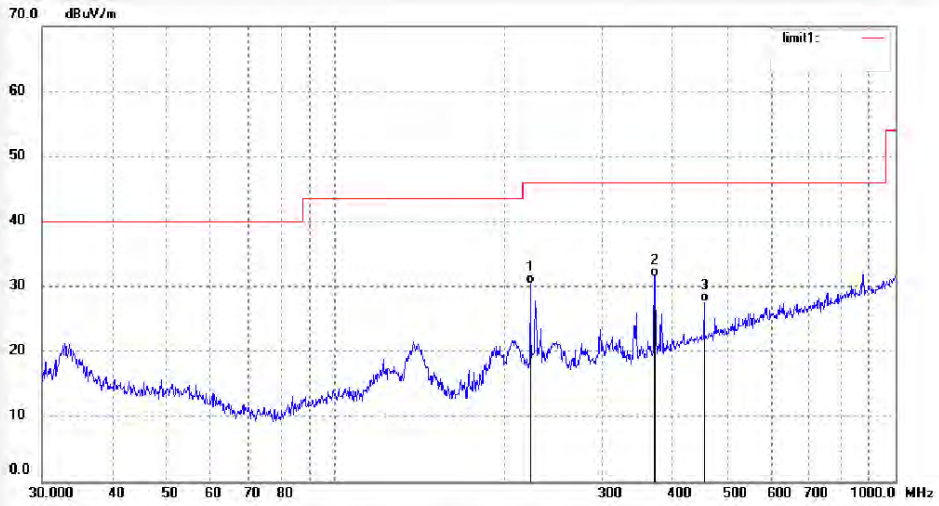
Job No.: LGWADE #4236	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	222.9500	41.73	-11.35	30.38	46.00	-15.62	QP			
2	372.0045	38.63	-7.13	31.50	46.00	-14.50	QP			
3	455.9057	32.82	-5.25	27.57	46.00	-18.43	QP			

Low Energy mode, 1GHz - 18GHz

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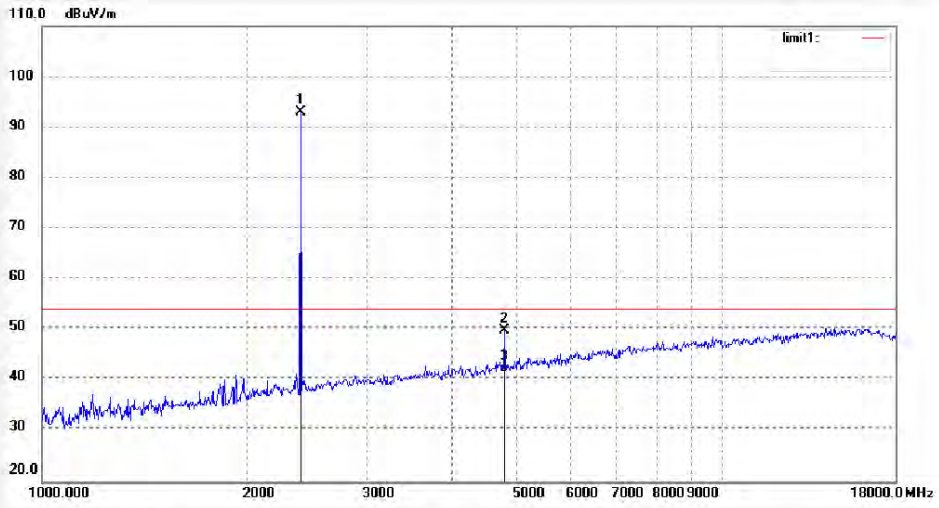
Job No.: LGWADE #4215
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2402MHz
Model: P-PLA-103-YIT-02

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.70	-1.61	93.09	/	/	peak			
2	4804.024	45.02	4.90	49.92	74.00	-24.08	peak			
3	4804.024	36.67	4.90	41.57	54.00	-12.43	AVG			

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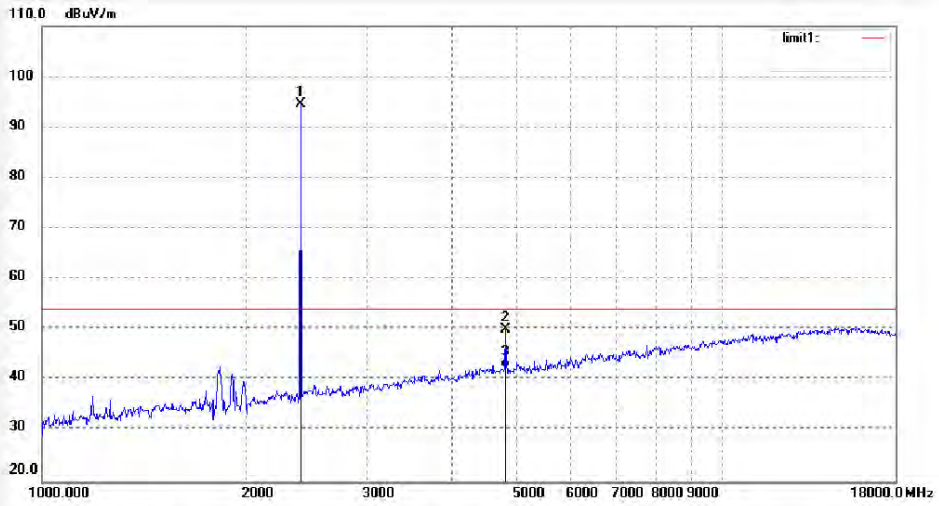
Job No.: LGWADE #4216	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	96.27	-1.61	94.66	/	/	peak			
2	4804.026	45.25	4.90	50.15	74.00	-23.85	peak			
3	4804.026	37.44	4.90	42.34	54.00	-11.66	AVG			

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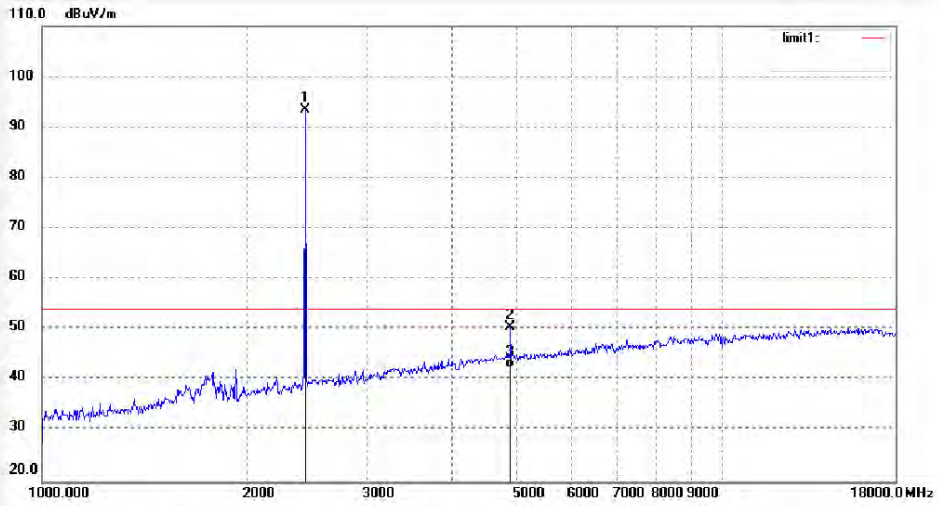
Job No.: LGWADE #4219
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2440MHz
Model: P-PLA-103-YIT-02

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	94.90	-1.46	93.44	/	/	peak			
2	4880.024	44.90	5.60	50.50	74.00	-23.50	peak			
3	4880.024	36.73	5.60	42.33	54.00	-11.67	AVG			

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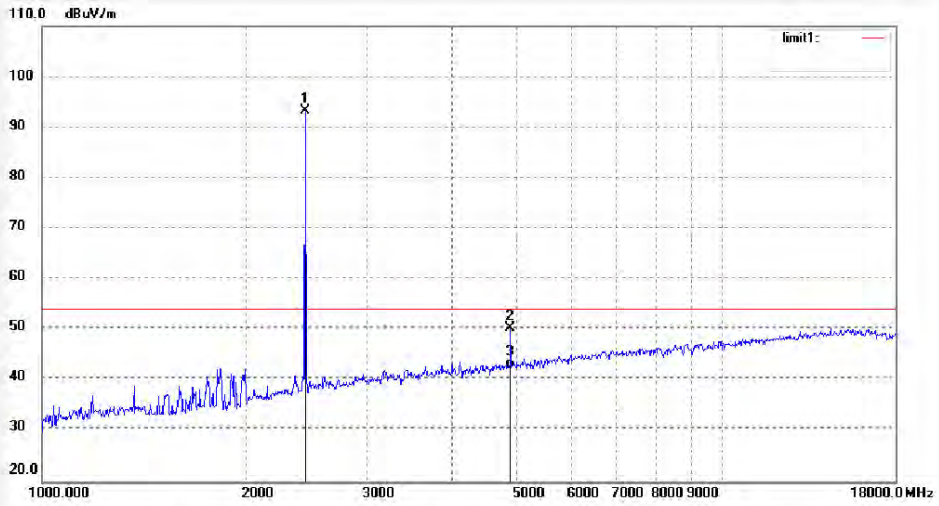
Job No.: LGWADE #4220	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2440MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	94.68	-1.46	93.22	/	/	peak			
2	4880.026	44.77	5.60	50.37	74.00	-23.63	peak			
3	4880.026	36.76	5.60	42.36	54.00	-11.64	AVG			

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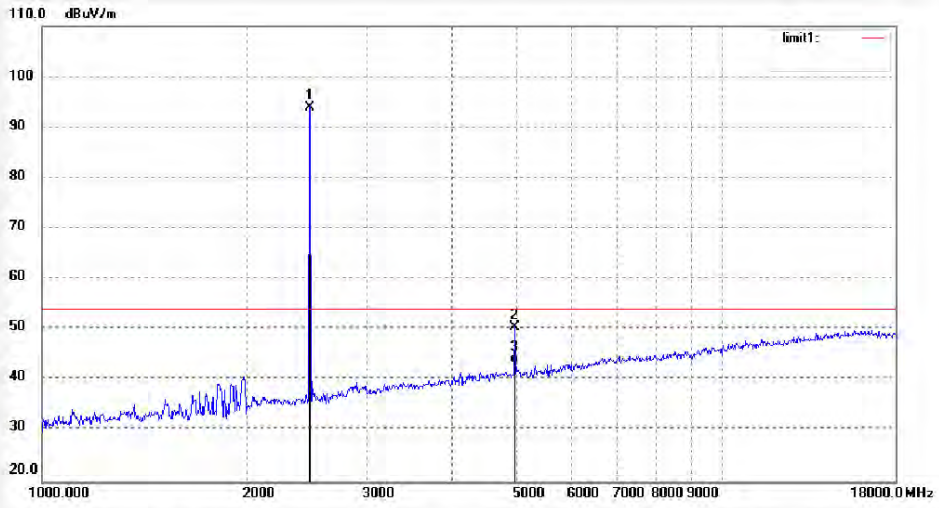
Job No.: LGWADE #4221
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2480MHz
Model: P-PLA-103-YIT-02

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.25	-1.40	93.85	/	/	peak			
2	4960.025	44.46	6.10	50.56	74.00	-23.44	peak			
3	4960.025	37.14	6.10	43.24	54.00	-10.76	AVG			

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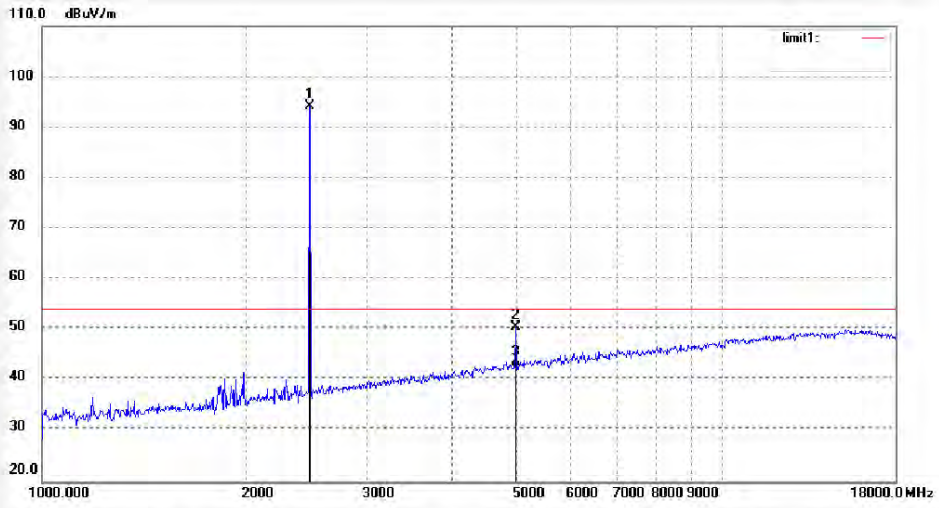
Job No.: LGWADE #4222	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.54	-1.40	94.14	/	/	peak			
2	4960.028	44.33	6.10	50.43	74.00	-23.57	peak			
3	4960.028	36.23	6.10	42.33	54.00	-11.67	AVG			

Appendix B.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel

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Job No.: LGWADE #4207	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2318.960	39.99	-2.04	37.95	74.00	-36.05	peak			
2	2318.960	29.40	-2.04	27.36	54.00	-26.64	AVG			

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Job No.: LGWADE #4208	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2325.600	39.57	-2.03	37.54	74.00	-36.46	peak			
2	2325.600	26.37	-2.03	24.34	54.00	-29.66	AVG			

BDR mode, High Channel

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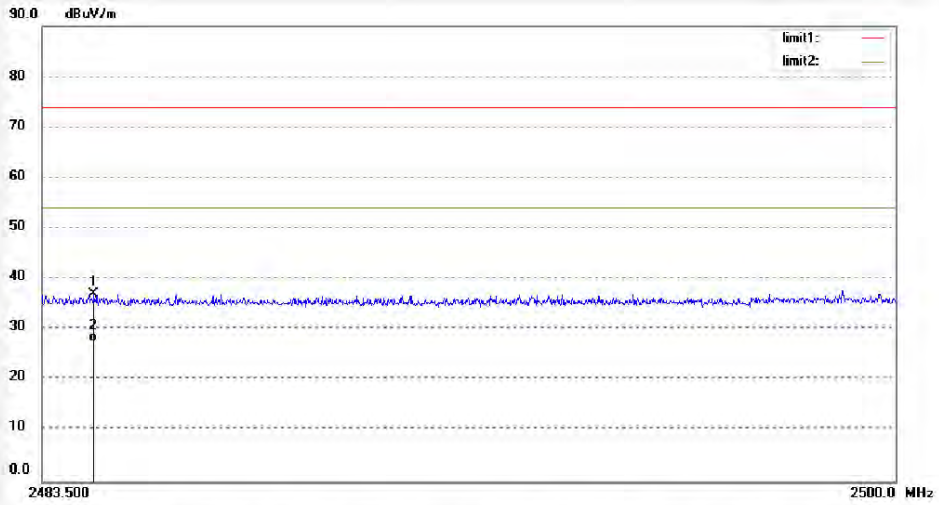
Job No.: LGWADE #4214	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.506	38.44	-1.41	37.03	74.00	-36.97	peak			
2	2484.506	29.08	-1.41	27.67	54.00	-26.33	AVG			

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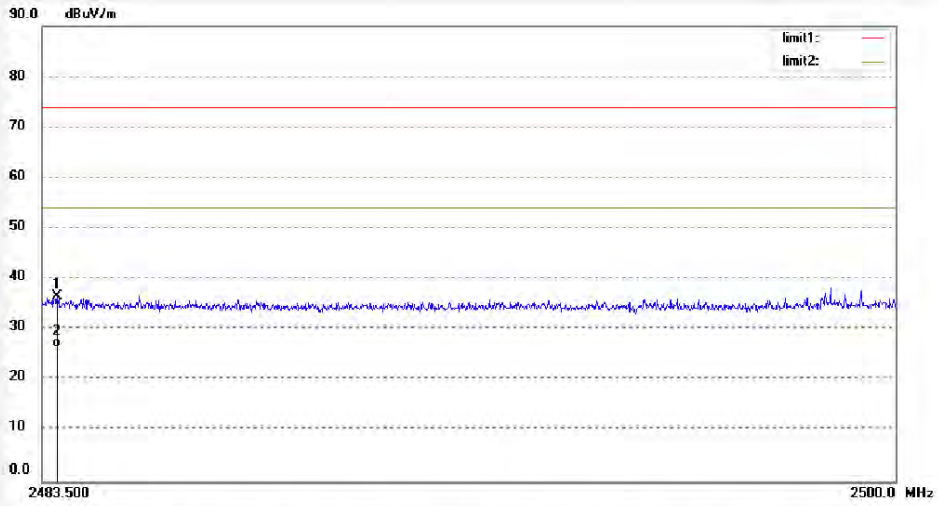
Job No.: LGWADE #4213	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.797	37.92	-1.41	36.51	74.00	-37.49	peak			
2	2483.797	27.75	-1.41	26.34	54.00	-27.66	AVG			

Low Energy mode, Low Channel

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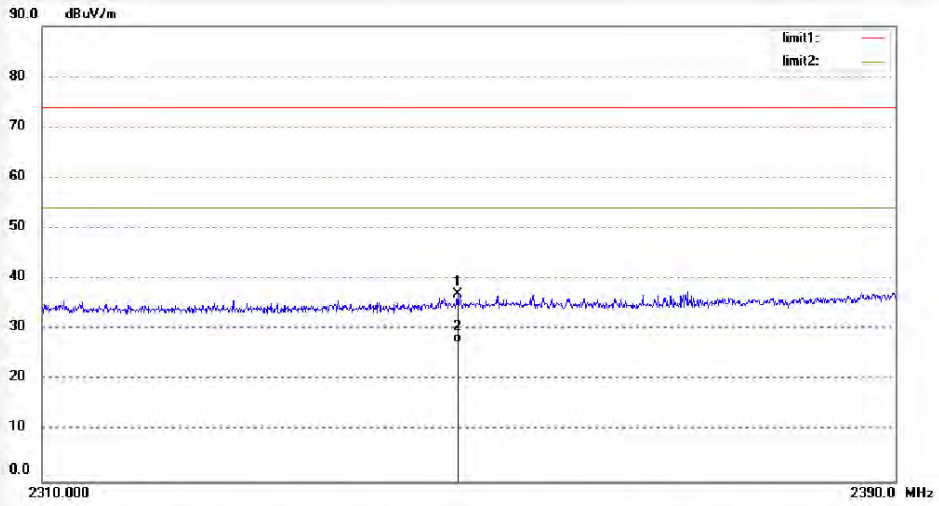
Job No.: LGWADE #4217
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2402MHz
Model: P-PLA-103-YIT-02

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2348.640	39.04	-2.02	37.02	74.00	-36.98	peak			
2	2348.640	29.37	-2.02	27.35	54.00	-26.65	AVG			

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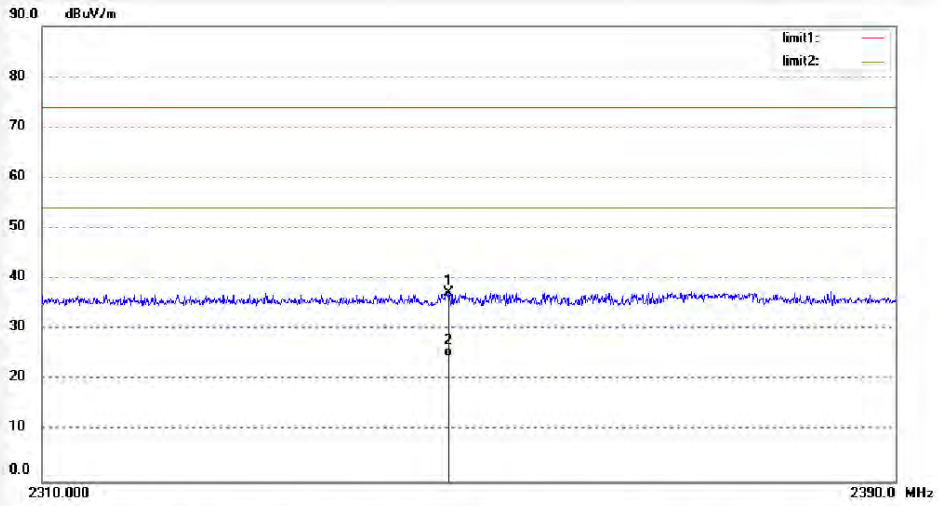
Job No.: LGWADE #4218	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2402MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2347.760	39.17	-2.03	37.14	74.00	-36.86	peak			
2	2347.760	26.60	-2.03	24.57	54.00	-29.43	AVG			

Low Energy mode, High Channel

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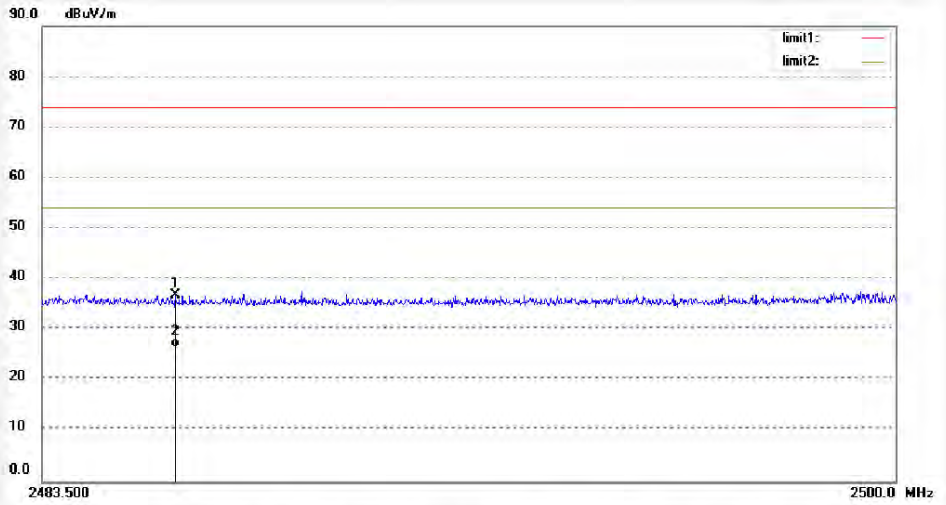
Job No.: LGWADE #4223
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Media Player
Mode: TX 2480MHz
Model: P-PLA-103-YIT-02

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/11/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2486.074	38.10	-1.40	36.70	74.00	-37.30	peak			
2	2486.074	27.74	-1.40	26.34	54.00	-27.66	AVG			

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Job No.: LGWADE #4224	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/11/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Media Player	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: P-PLA-103-YIT-02	

Note: Bluetooth 4.0

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.391	39.32	-1.41	37.91	74.00	-36.09	peak			
2	2484.391	28.75	-1.41	27.34	54.00	-26.66	AVG			

Appendix B.3: Test Plots of Conducted Emission

C Mode

ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

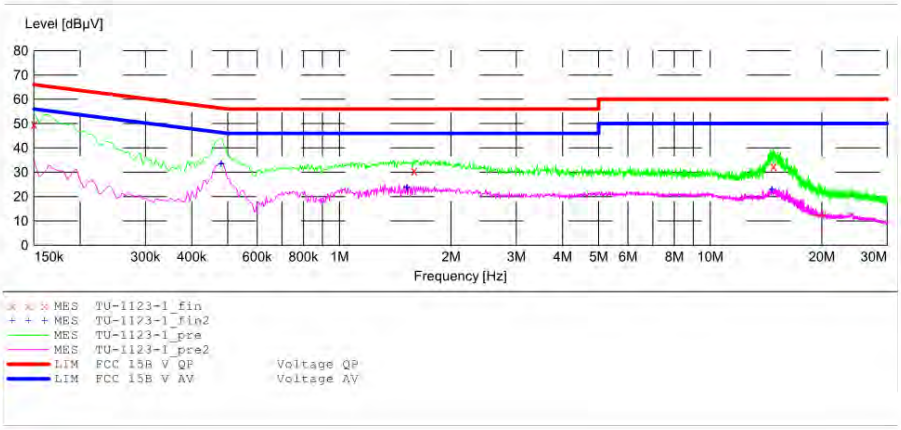
```
EUT:                  Media Player M/N:P-PLA-103-YIT-02

Operating Condition:  On with Bluetooth
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   N 120V/60Hz
Comment:              Mains Port
Start of Test:        11/23/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "TU-1123-1_fin"

11/23/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	49.80	10.5	66	16.2	QP	N	GND
1.590000	30.60	10.9	56	25.4	QP	N	GND
14.800000	32.40	11.4	60	27.6	QP	N	GND

MEASUREMENT RESULT: "TU-1123-1_fin2"

11/23/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.480000	33.40	10.7	46	12.9	AV	N	GND
1.520000	23.60	10.9	46	22.4	AV	N	GND
14.665000	22.90	11.4	50	27.1	AV	N	GND

Page 1/1 11/23/2016 TU-1123-1

ACCURATE TECHNOLOGY CO.,LTD

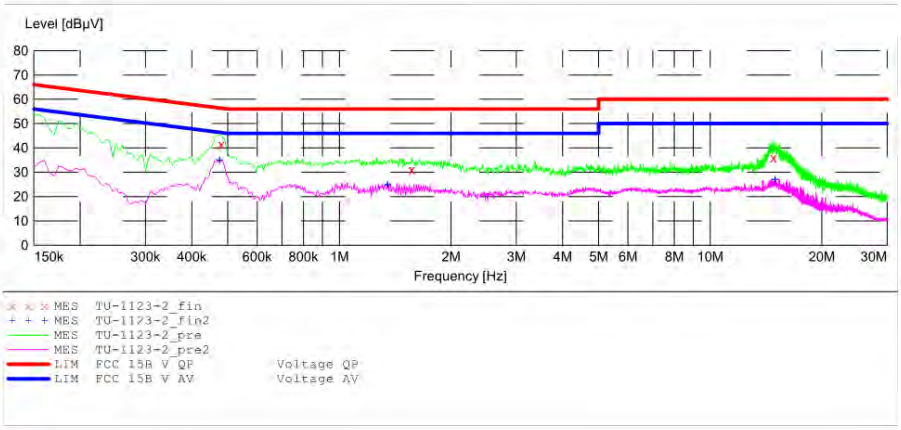
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Media Player M/N:P-PLA-103-YIT-02

Operating Condition:  On with Bluetooth
Test Site:            1#Shielding Room
Operator:             LGWADE
Test Specification:   L 120V/60Hz
Comment:              Mains Port
Start of Test:        11/23/2016 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:                _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector   Meas.     IF       Transducer
  Frequency  Frequency  Width                  Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz    QuasiPeak  1.0 s     200 Hz   NSLK8126 2008
                                     Average
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak  1.0 s     9 kHz    NSLK8126 2008
                                     Average
```



MEASUREMENT RESULT: "TU-1123-2_fin"

11/23/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.480000	41.40	10.7	56	14.9	QP	L1	GND
1.565000	31.10	10.9	56	24.9	QP	L1	GND
14.800000	35.90	11.4	60	24.1	QP	L1	GND

MEASUREMENT RESULT: "TU-1123-2_fin2"

11/23/2016

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.475000	34.90	10.7	46	11.5	AV	L1	GND
1.350000	24.80	10.9	46	21.2	AV	L1	GND
14.950000	27.00	11.4	50	23.0	AV	L1	GND