

Prüfbericht-Nr.: <i>Test report No.:</i>	60390332 001	Auftrags-Nr.: <i>Order No.:</i>	168269739	Seite 1 von 22 <i>Page 1 of 22</i>
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	16.06.2019	
Auftraggeber: <i>Client:</i>	SZ DJI Osmo Technology Co., Ltd. 2F, Building 3, Binhai Mingzhu Industrial Park No. 291 Louming Road, Xinhu Street Guangming District, Shenzhen, China			
Prüfgegenstand: <i>Test item:</i>	DJI OM 4			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	OK100			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15C §15.203 CFR47 FCC Part 15C §15.207 CFR47 FCC Part 15C §15.209 CFR47 FCC Part 15C §15.247		CFR47 FCC Part 2.1093 RSS-Gen Issue 5 RSS-247 Issue 2 RSS-102 Issue 5	
Wareneingangsdatum: <i>Date of receipt:</i>	20.06.2020		Please refer to photo documents	
Prüfmuster-Nr.: <i>Test sample No.:</i>	A002848442-001 A002848442-002			
Prüfzeitraum: <i>Testing period:</i>	22.06.2020 to 01.07.2020			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
03.07.2020 Hardy Suo / Assistant Project Manager		03.07.2020 Sam Lin / Technical Certifier		
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
Sonstiges / Other: FCC ID: 2ANDR-OK1002005 ID: 23060-OK1002005, HVIN: OK100				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend P(ass) = entspricht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory P(ass) = passed a.m. test specifications(s)		4 = ausreichend 5 = mangelhaft N/A = nicht anwendbar N/T = nicht getestet 4 = sufficient 5 = poor N/A = not applicable N/T = not tested		
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. <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>				

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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: Photographs of the Test Set-up

Appendix B: Test Results of BLE

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Accreditation Designation No.: CN1260
 ISED Wireless Device Testing Laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. Until (DD.MM.YYYY)
Signal Analyzer	R&S	FSV 40	101441	20.08.2020
OSP	R&S	OSP 150	101017	17.12.2020
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V10.50.10)	N/A	N/A
Power Meter	R&S	NRP2	107105	17.12.2020
Wideband Power Sensor	R&S	NRP-Z81	105350	17.12.2020
Shielding Room 8#	Albatross	SR8	APC17151-SR8	23.07.2020
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. Until (DD.MM.YYYY)
EMI Test Receiver	R&S	ESR 7	102021	19.08.2020
Signal Analyzer	R&S	FSV 40	101439	21.08.2020
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.08.2020
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	20.08.2020
Amplifier	R&S	SCU-18F	180070	20.08.2020
Amplifier	R&S	SCU40A	100475	20.09.2020
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	02.09.2020
Double-Ridged Antenna (1 - 18 GHz)	ETS-LINDGREN	3117	00218717	02.09.2020
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	02.09.2020
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	01.09.2020
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2020
Test software	R&S	EMC32 (V10.50.40)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A

3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	06.07.2020
Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cali. Until (DD.MM.YYYY)
EMI Test Receiver	R&S	ESR3	102428	03.09.2020
Artificial Mains Network	R&S	ENV216	102333	19.08.2020
Artificial Mains Network	R&S	ENV432	101411	19.08.2020
Attenuator	R&S	ESH2Z31	100300	19.08.2020
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A

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 basis 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.

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF Power (conducted)	± 2.5 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 6 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.37 dB
Temperature	± 1 °C
Humidity	± 5 %
Voltage (DC)	± 1 %
Voltage (AC, <10kHz)	± 2 %

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) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of 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 gimbal that supports Bluetooth BLE protocols.

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
Product Name	DJI OM 4
Model	OK100
FCC ID	2ANDR-OK1002005
IC	23060-OK1002005
HVIN	OK100
Frequency Bandwidth	2400-2483.5MHz
Operating Frequency/Channels/Protocol	2402-2480MHz / 40 channels / Bluetooth BLE 5.0 (Data rate of BLE 5.0: 1Mbps and 2Mbps)
Channel Spacing	2MHz
Extreme Temperature Range	0 ~ +40 °C
Modulation	GFSK
Antenna Number	1
Antenna Type	Integral antenna
Antenna Gain	1.9dBi max
Operation Voltage	Powered by USB port 5.0Vdc or rechargeable battery 7.2Vdc

Table 3: RF Channel and Frequency of BLE

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. On, Bluetooth Low Energy transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Standby mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|---------------|
| - Block Diagram | - Schematics |
| - FCC/IC Label and Location Info | - 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 tests were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 4: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Notebook	Lenovo	WB0205140E	WB06355728
AC/DC adapter	Samsung	ETA-U90CBC	S/N: -- Input: 100-240Vac, 50/60Hz, 0.35A Output: 5Vdc, 2.0A
Mobile Phone	Huawei	ALP-AL00	--

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

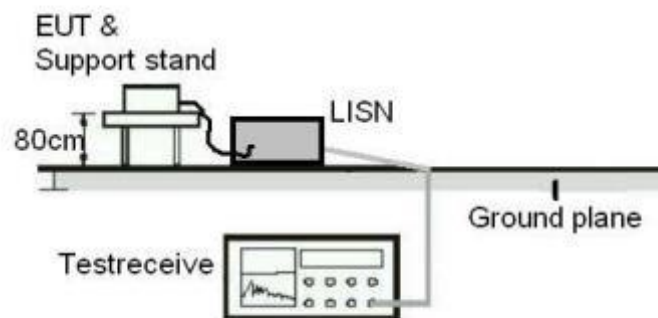
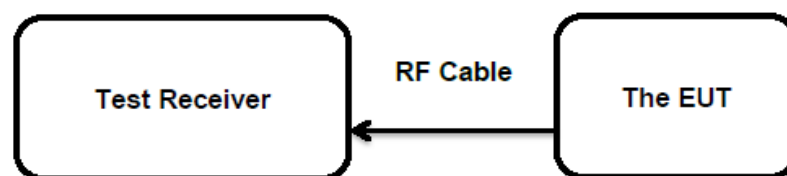


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

According to the manufacturer declared, the EUT has an integral antenna, the directional gain of antenna is 1.9 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. 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 and e.i.r.p.

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(3)
	:	RSS-247 clause 5.4 d)
Basic standard	:	Section of 11.9.1 of ANSI C63.10:2013
Limits	:	< 1 Watt (30dBm) (Maximum peak conducted output power)
	:	*< 4 Watt (36dBm) (e.i.r.p.)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	22.06.2020-01.07.2020
Input voltage	:	Power from Battery 7.2Vdc
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

*Note: The maximum gain of antenna is less than 6dBi.

Table 5: Test Result of Maximum Peak Conducted Output Power and e.i.r.p., BLE

BLE 5.0-1Mbps

Test Mode	Test Channel (MHz)	Measured Peak Power		e.i.r.p.		FCC Limit (W)	IC Limit (W)
		(dBm)	(W)	(dBm)	(W)		
GFSK (BLE)	2402.0	0.31	0.0011	2.21	0.0017	< 1.0 (Maximum peak conducted output power)	<4.0 (e.i.r.p.)
	2440.0	0.54	0.0011	2.44	0.0018		
	2480.0	0.34	0.0011	2.24	0.0017		
Maximum Measured Value		0.54	0.0011	2.44	0.0018		

BLE 5.0-2Mbps

Test Mode	Test Channel (MHz)	Measured Peak Power		e.i.r.p.		FCC Limit (W)	IC Limit (W)
		(dBm)	(W)	(dBm)	(W)		
GFSK (BLE)	2402.0	0.43	0.0011	2.33	0.0017	< 1.0 (Maximum peak conducted output power)	<4.0 (e.i.r.p.)
	2440.0	0.62	0.0012	2.52	0.0018		
	2480.0	0.32	0.0011	2.22	0.0017		
Maximum Measured Value		0.62	0.0012	2.52	0.0018		

5.1.3 Conducted Power Spectral Density

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

Test standard	: FCC Part 15.247(e) RSS-247 clause 5.2 b)
Basic standard	: Section of 11.10.2 of ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 22.06.2020-01.07.2020
Input voltage	: Power from Battery 7.2Vdc
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

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 a)
Basic standard	:	Section of 11.8 of ANSI C63.10: 2013
Limits	:	> 500 KHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	22.06.2020-01.07.2020
Input voltage	:	Power from Battery 7.2Vdc
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.5 99% Bandwidth**RESULT:****Pass****Test Specification**

Test standard	:	FCC Part 15.247(a)(2) RSS-Gen clause 6.7
Basic standard	:	Section of 6.9.3 of ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	22.06.2020-01.07.2020
Input voltage	:	Power from Battery 7.2Vdc
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

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	: Section of 11.11 of ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 22.06.2020-01.07.2020
Input voltage	: Power from Battery 7.2Vdc
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, 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 & FCC Part 15.209 RSS-247 clause 3.3
Basic standard	:	Section of 11.12 of ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-GEN clause 8.9 and 8.10
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	22.06.2020-01.07.2020
Input voltage	:	Power from Battery 7.2Vdc
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

5.1.8 Conducted Emission

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

Test standard	:	FCC Part 15.207 RSS-Gen clause 8.8
Basic standard	:	Section of 6.2 of ANSI C63.10: 2013
Limits	:	Refer to 15.207(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	22.06.2020-01.07.2020
Input voltage	:	120Vac, 60Hz
Operation mode	:	A
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B

6 Radio Frequency Exposure Compliance

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

Test standard

: CFR47 FCC Part 2: Section 2.1093
CFR47 FCC Part 1: Section 1.1310
FCC KDB Publication 447498 D01v06
RSS-102 Issue 5

Result:

- 1) According to the KDB 447498 D1 v06 section 4.3.1:
The maximum conducted output power for the EUT is 0.62dBm=1.15mW.

The SAR Exclusion Threshold Level:

$$\begin{aligned} &= 3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}} \\ &= 3.0 * 5 / \sqrt{2.480} \text{ mW} \\ &= 9.5 \text{ mW} \end{aligned}$$

Since the max. conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

- 2) According to RSS-102 Issue 5 section 5.2.1:

The e.r.i.p for the EUT is 2.52dBm=1.79mW.

The SAR exemption limit is 4mW

Since the e.r.i.p is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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Appendix B: Test Results of BLE

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Appendix B.1: Test Results of Conducted Power Spectral Density

BLE 5.0-1Mbps

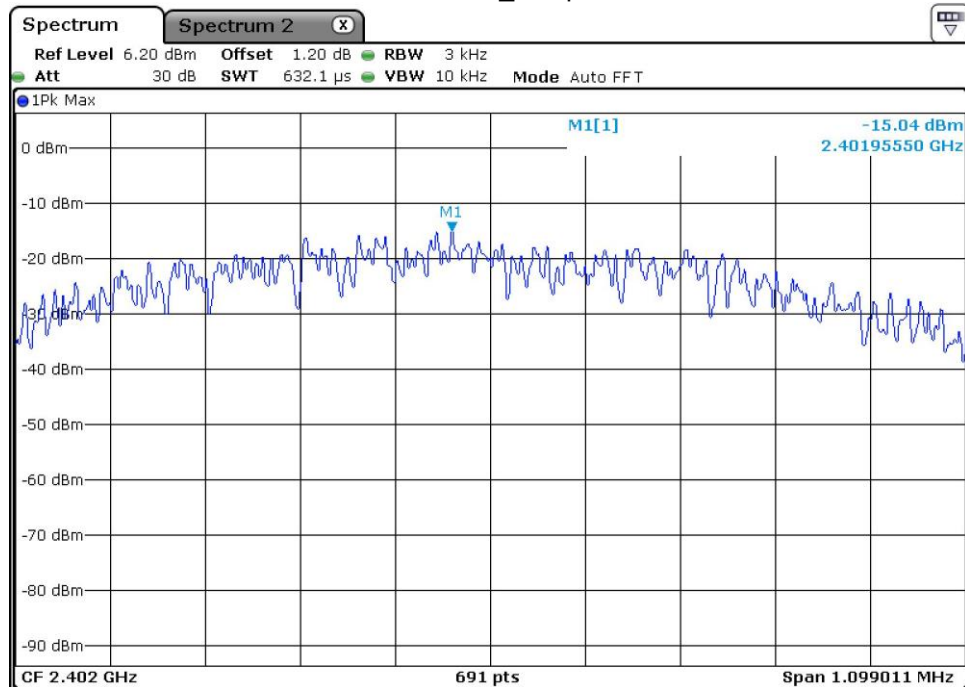
Test Mode	Frequency (MHz)	Max Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Bluetooth BLE	2402	-13.14	<=8	Pass
	2440	-13.17		Pass
	2480	-13.13		Pass

BLE 5.0-2Mbps

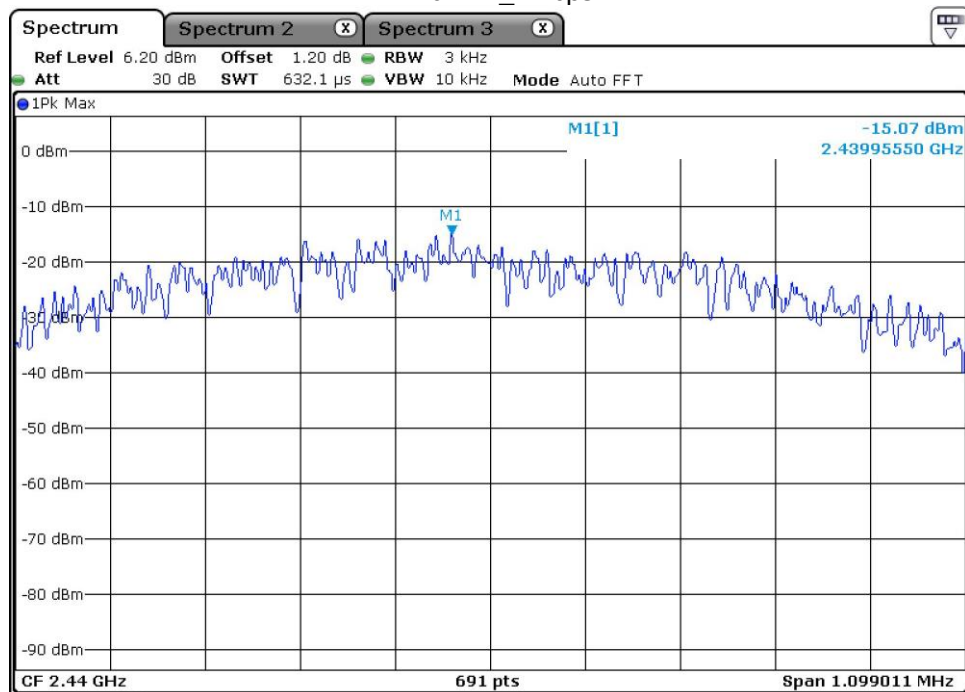
Test Mode	Frequency (MHz)	Max Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Bluetooth BLE	2402	-15.74	<=8	Pass
	2440	-15.68		Pass
	2480	-15.65		Pass

Test Plot

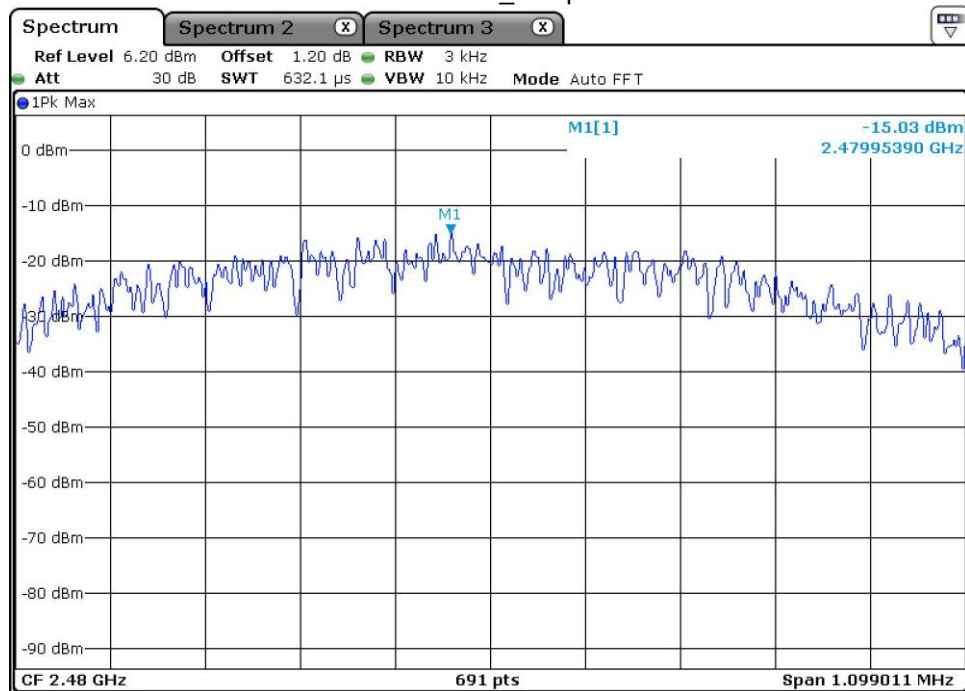
2402MHz_1Mbps



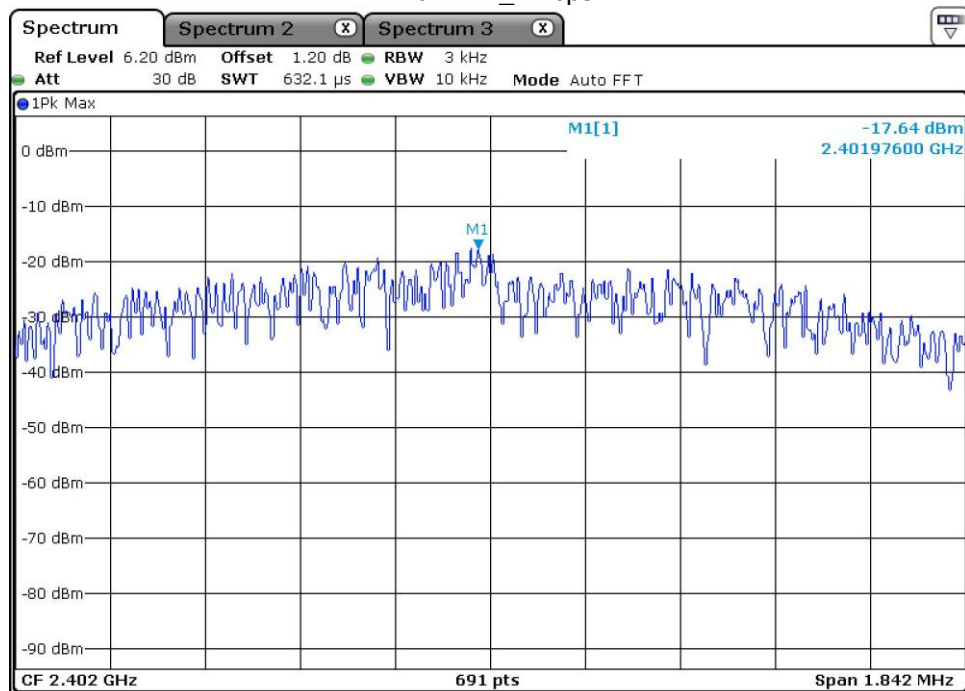
2440MHz_1Mbps



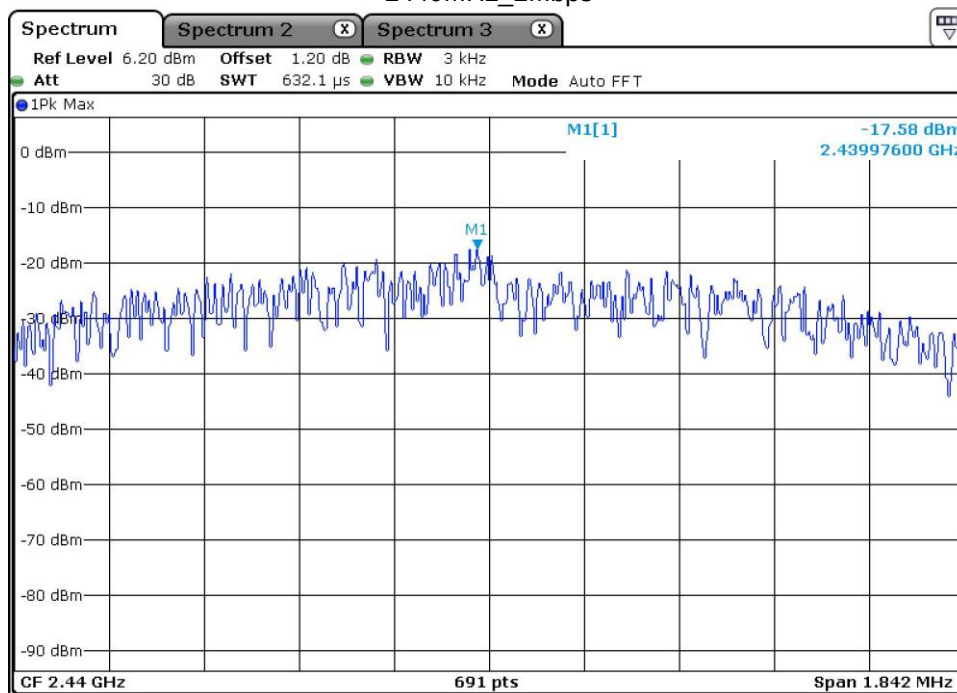
2480MHz_1Mbps



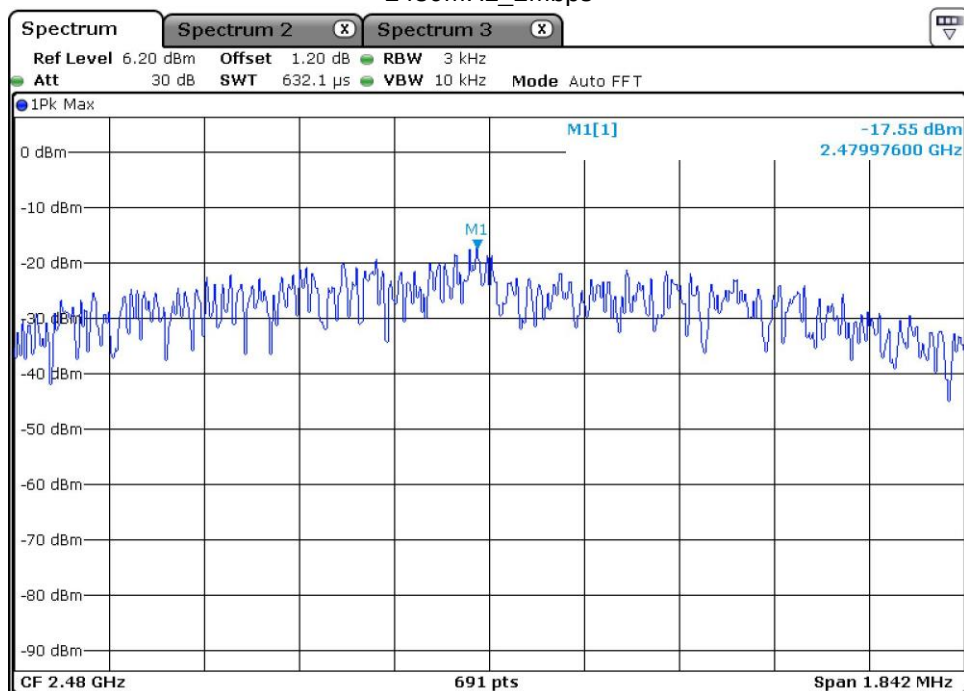
2402MHz_2Mbps



2440MHz_2Mbps



2480MHz_2Mbps



Appendix B.2: Test Results of 6dB Bandwidth

BLE 5.0-1Mbps

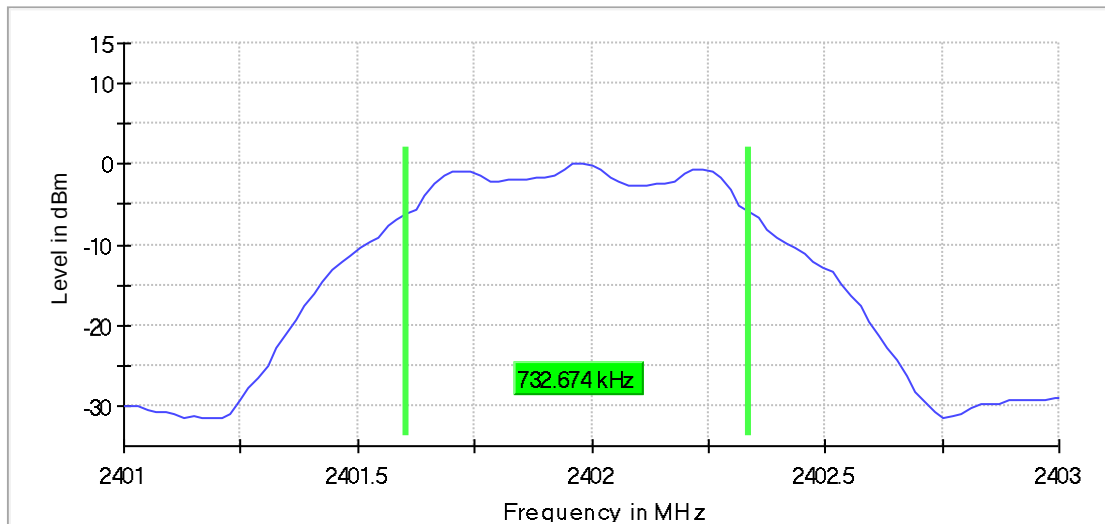
Test Mode	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Bluetooth BLE	2402	732.674	≥500	Pass
	2440	732.674		Pass
	2480	732.674		Pass

BLE 5.0-2Mbps

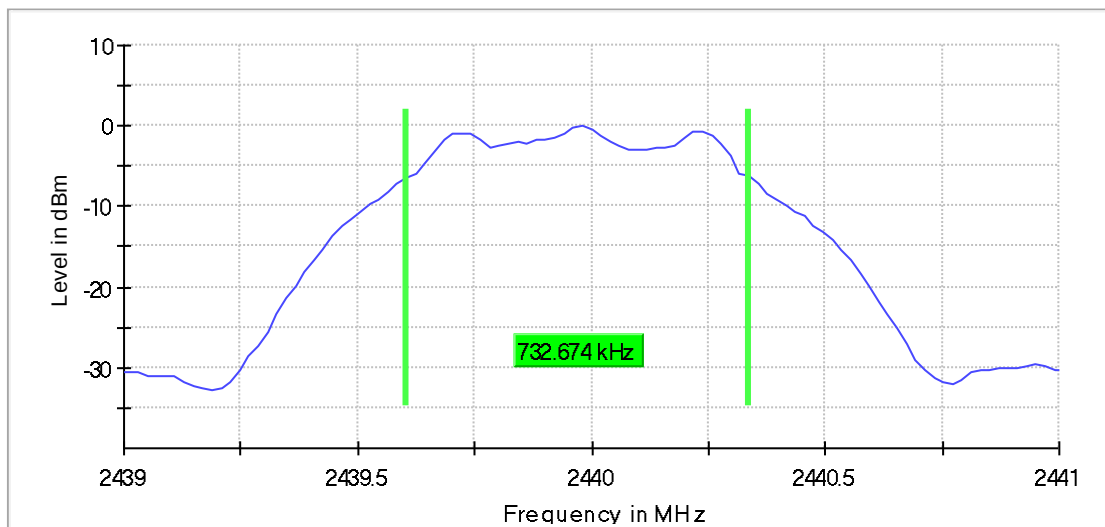
Test Mode	Frequency (MHz)	6dB bandwidth (kHz)	Limit (kHz)	Result
Bluetooth BLE	2402	1228.000	≥500	Pass
	2440	1228.000		Pass
	2480	1228.000		Pass

Test Plot

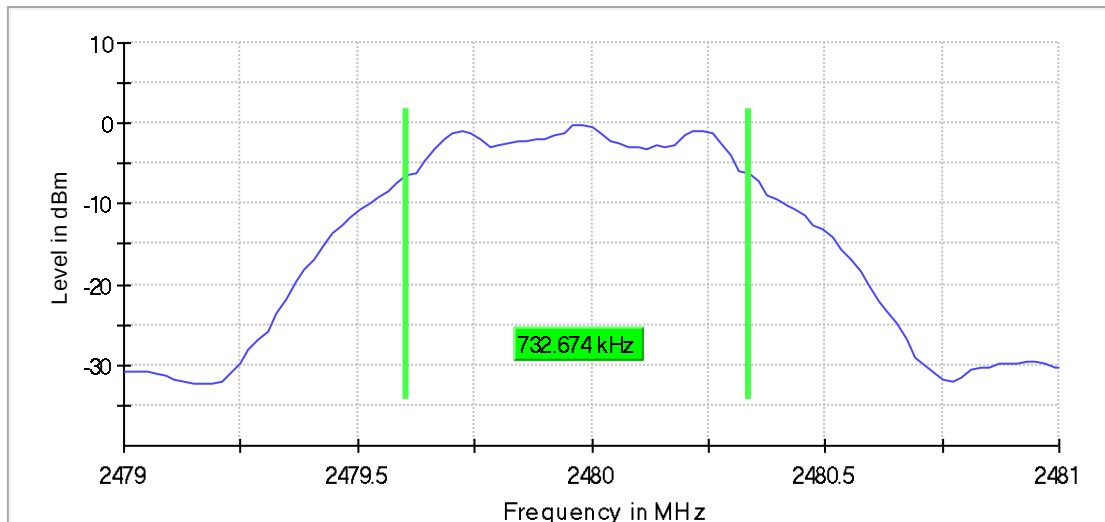
2402MHz_1Mbps
6 dB Bandwidth



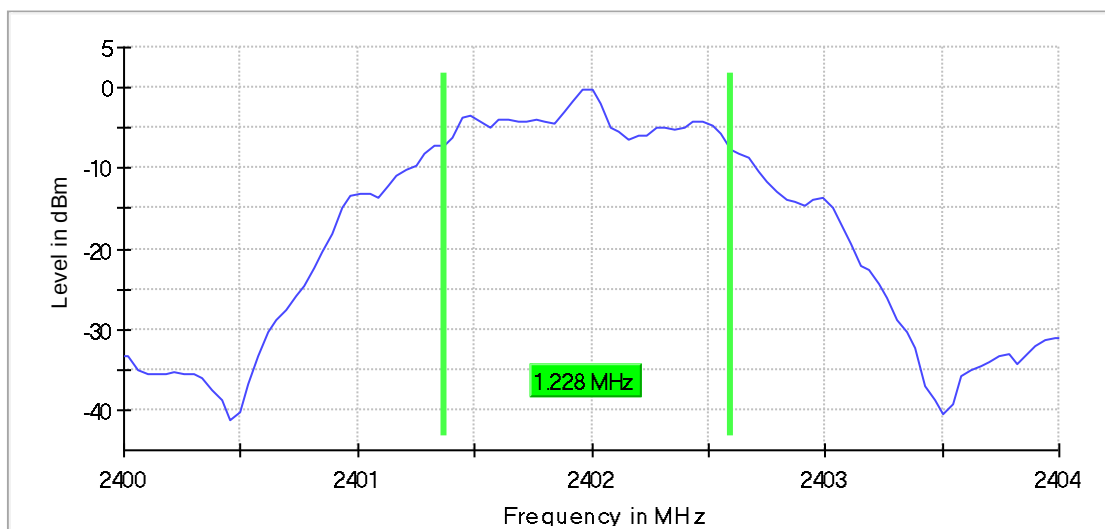
2440MHz_1Mbps
6 dB Bandwidth



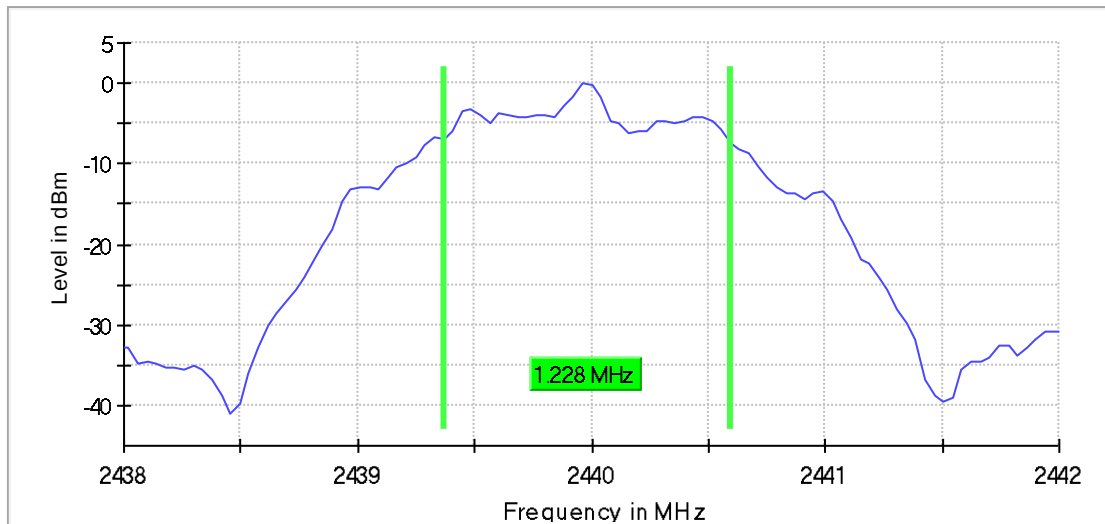
2480MHz_1Mbps
6 dB Bandwidth



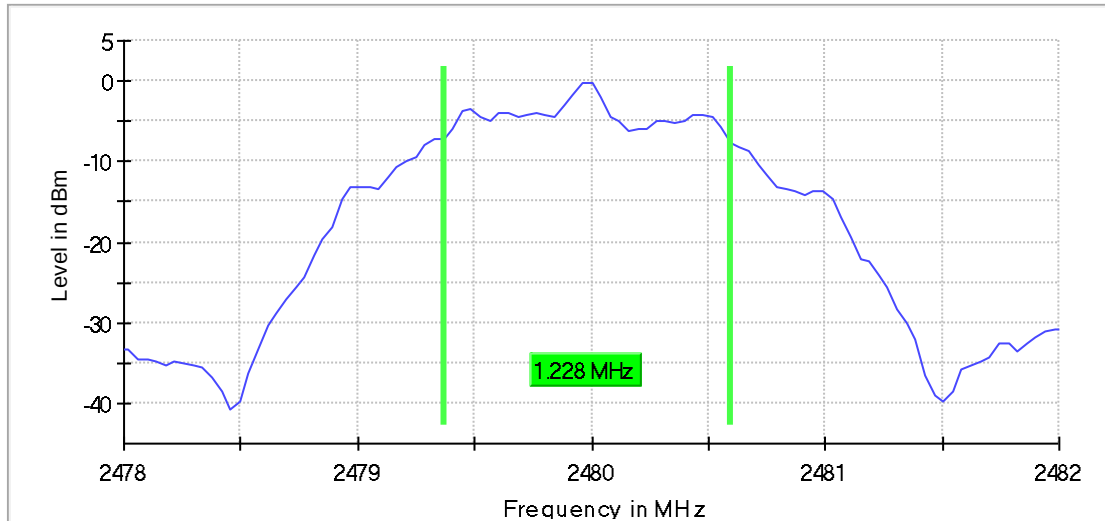
2402MHz_2Mbps
6 dB Bandwidth



2440MHz_2Mbps
6 dB Bandwidth



2480MHz_2Mbps
6 dB Bandwidth



Appendix B.3: Test Results of 99% Bandwidth

BLE 5.0-1Mbps

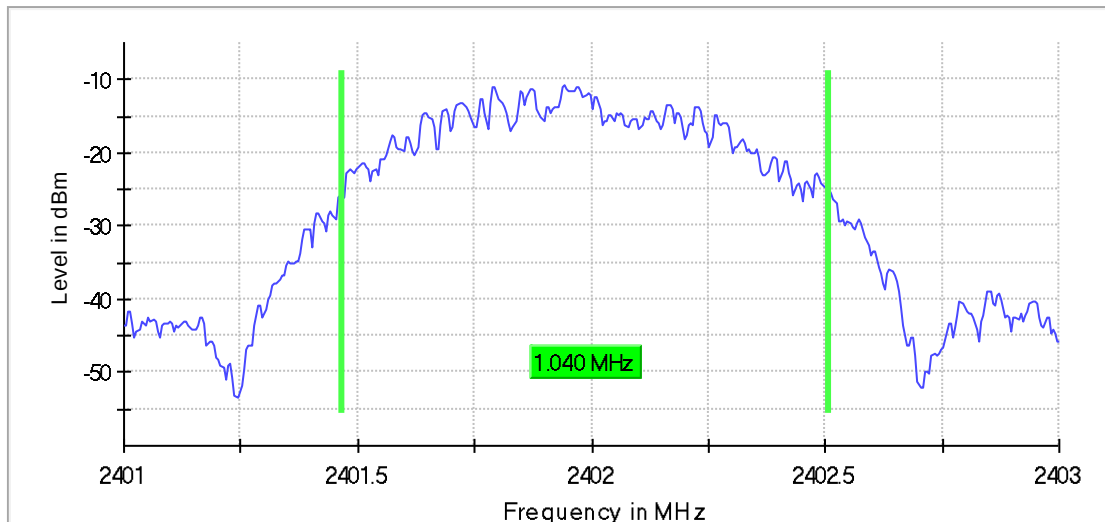
Test Mode	Frequency (MHz)	99% bandwidth (MHz)	Limit (MHz)	Result
Bluetooth BLE	2402	1.040	--	Pass
	2440	1.050		Pass
	2480	1.050		Pass

BLE 5.0-2Mbps

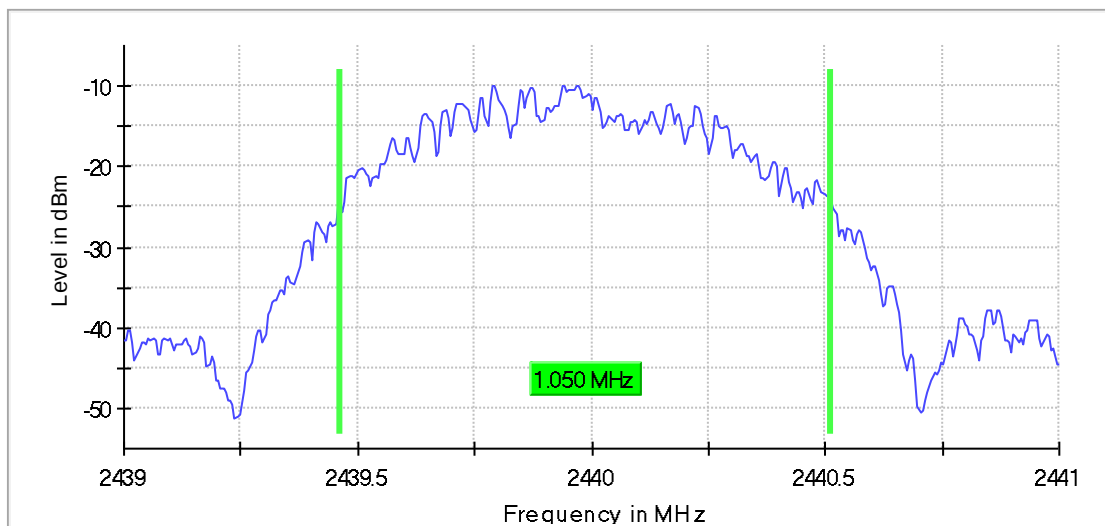
Test Mode	Frequency (MHz)	99% bandwidth (MHz)	Limit (MHz)	Result
Bluetooth BLE	2402	2.050	--	Pass
	2440	2.050		Pass
	2480	2.050		Pass

Test Plot

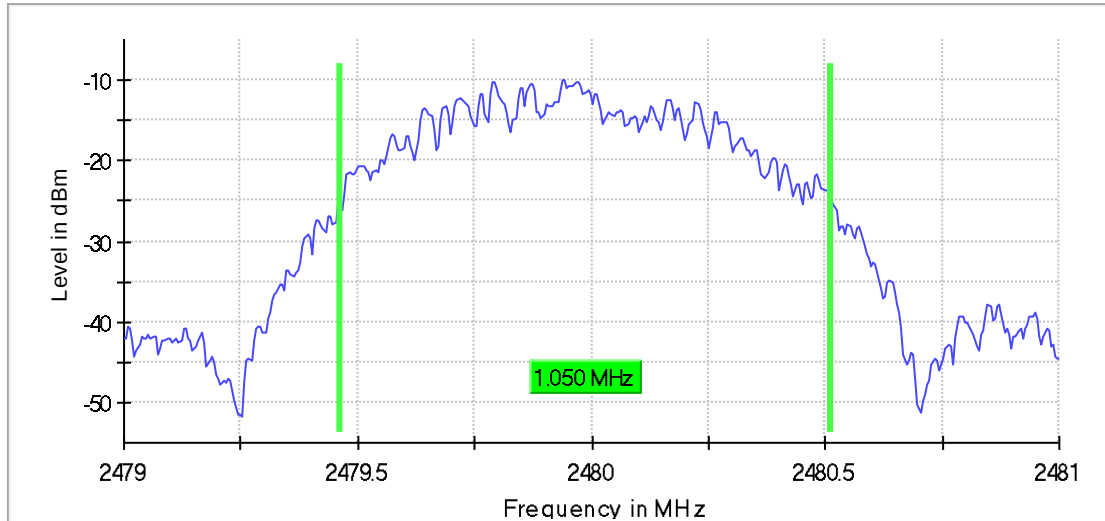
2402MHz_1Mbps
99%Bandwidth



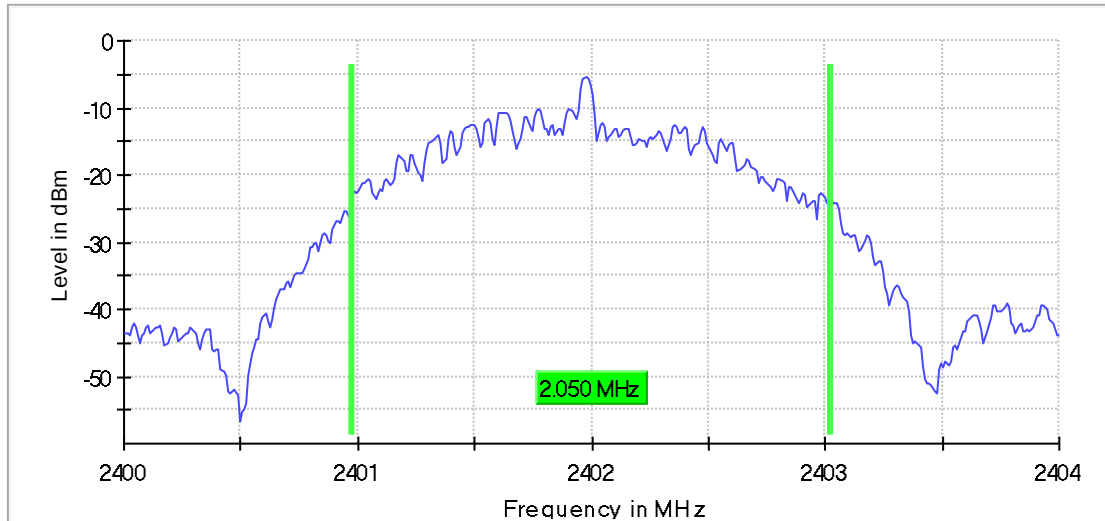
2440MHz_1Mbps
99%Bandwidth



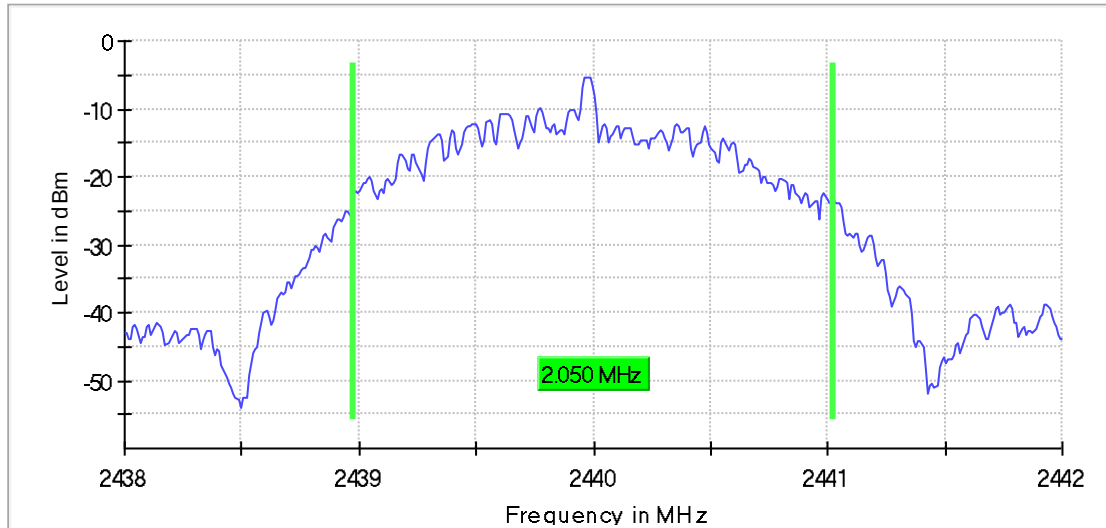
2480MHz_1Mbps
99%Bandwidth



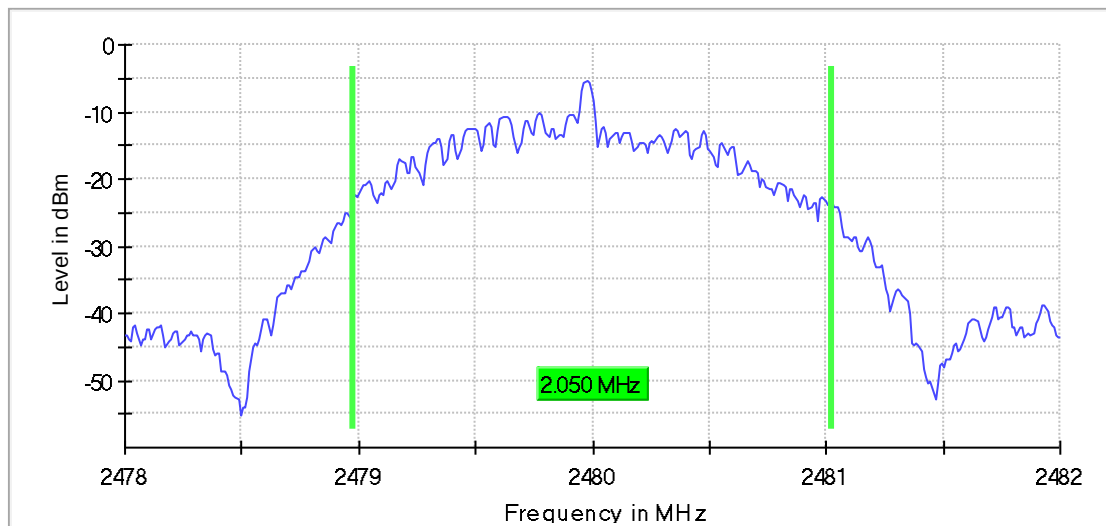
2402MHz_2Mbps
99%Bandwidth



2440MHz_2Mbps
99%Bandwidth

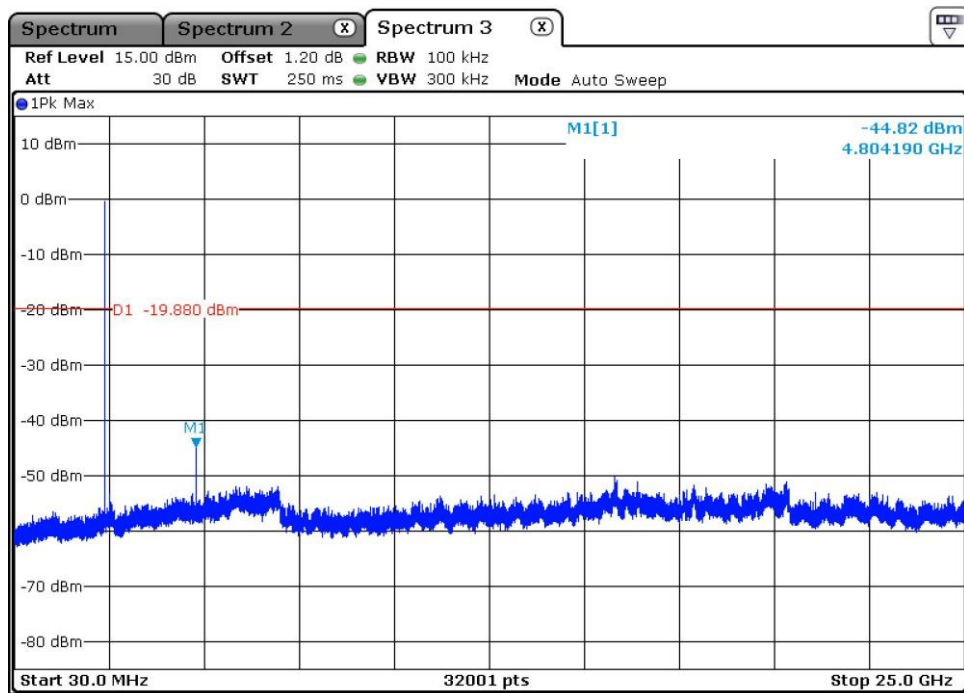
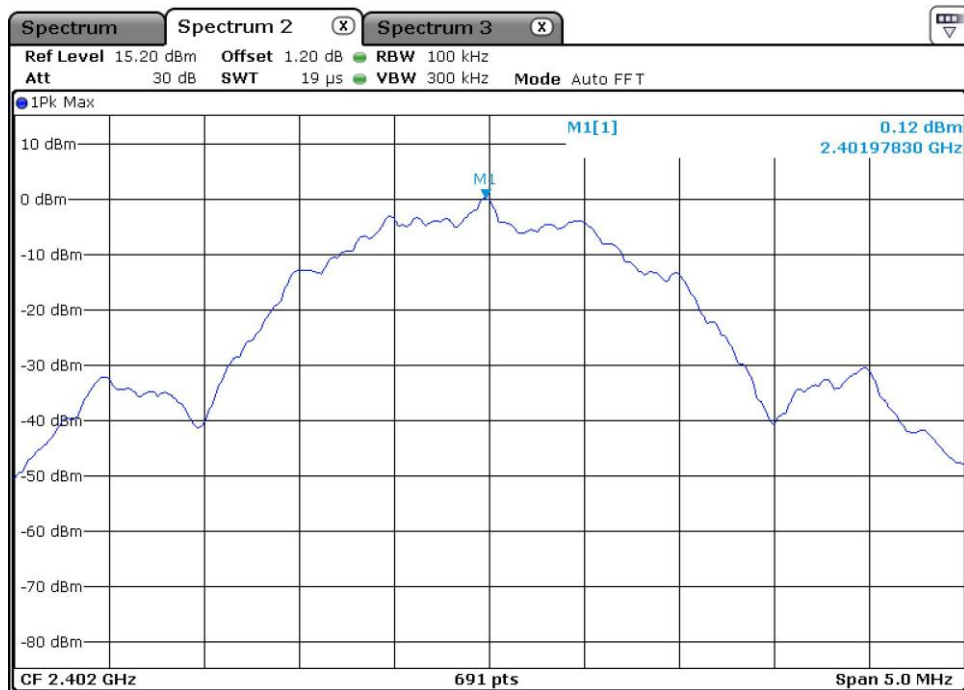


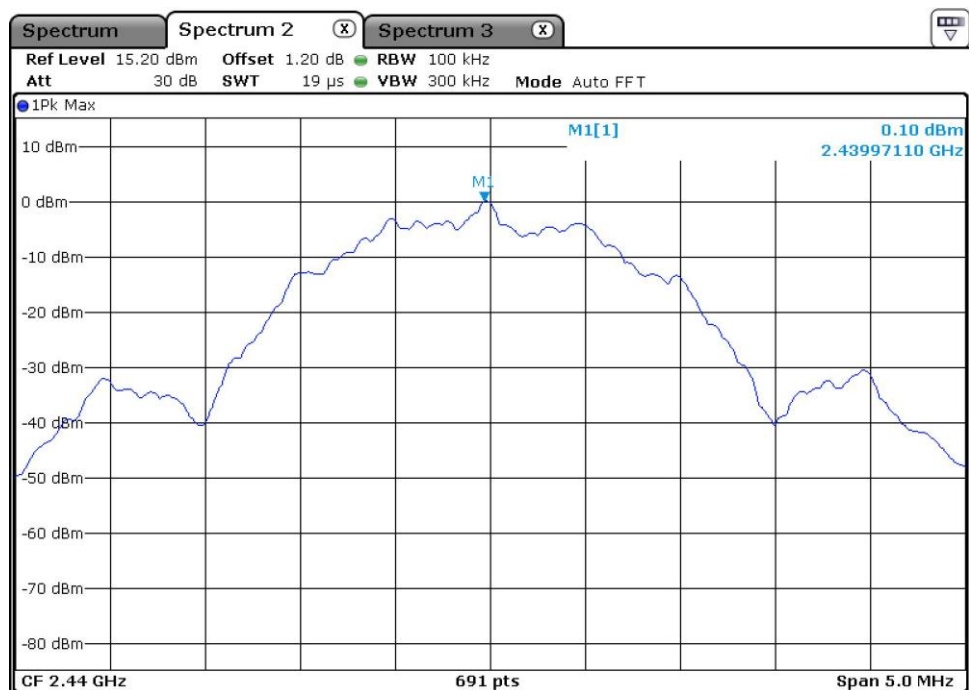
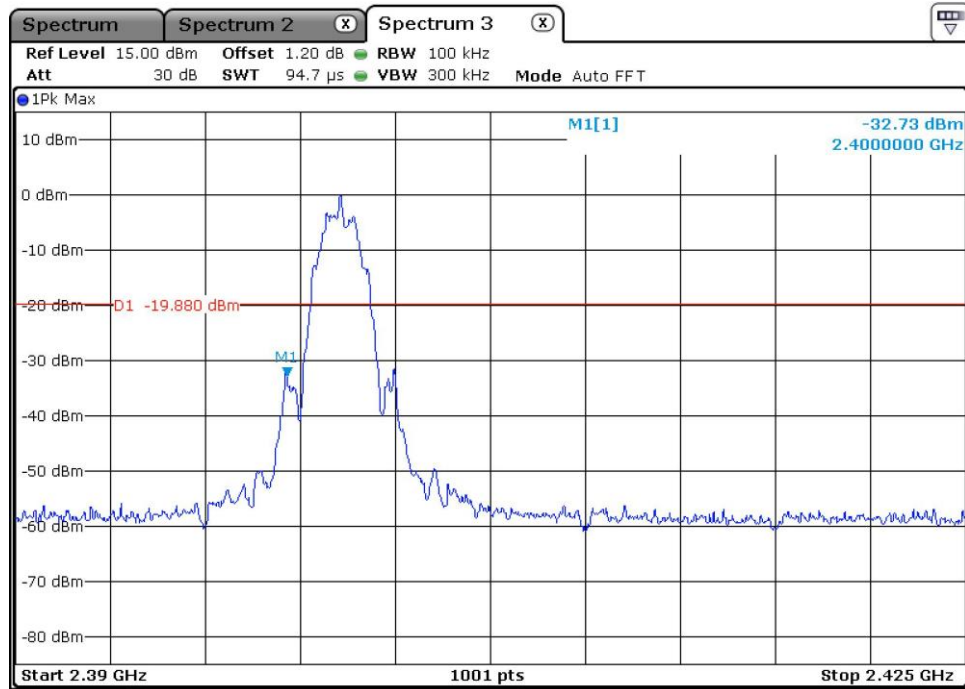
2480MHz_2Mbps
99%Bandwidth

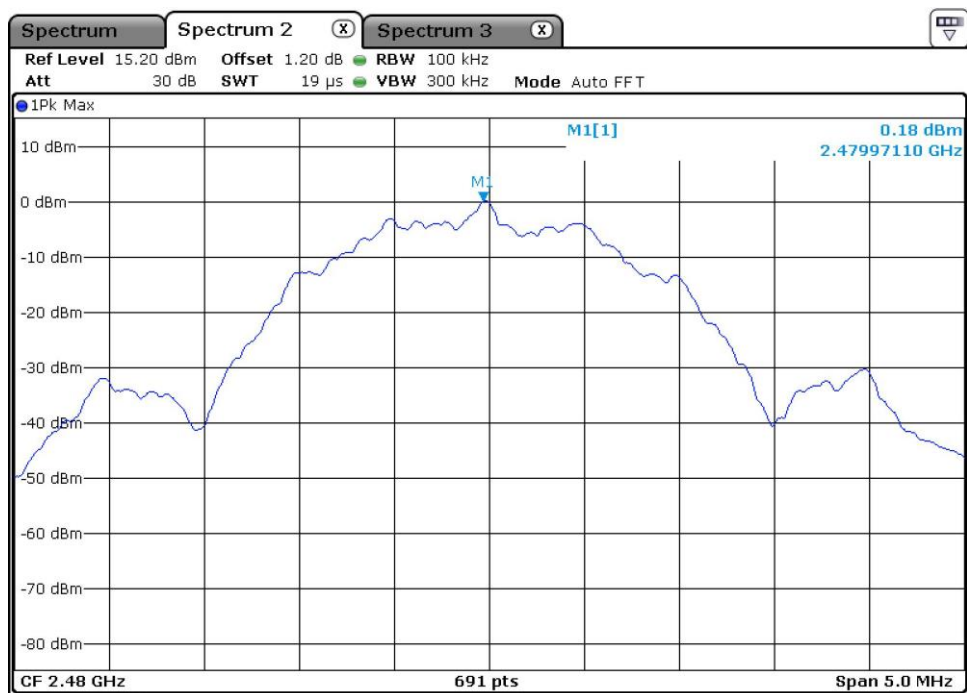
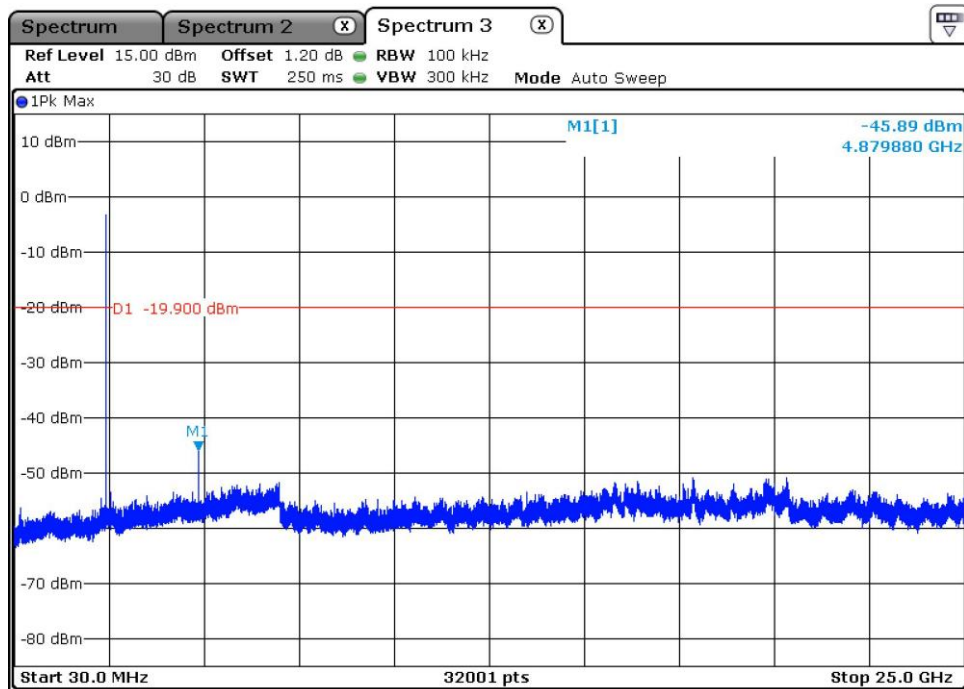


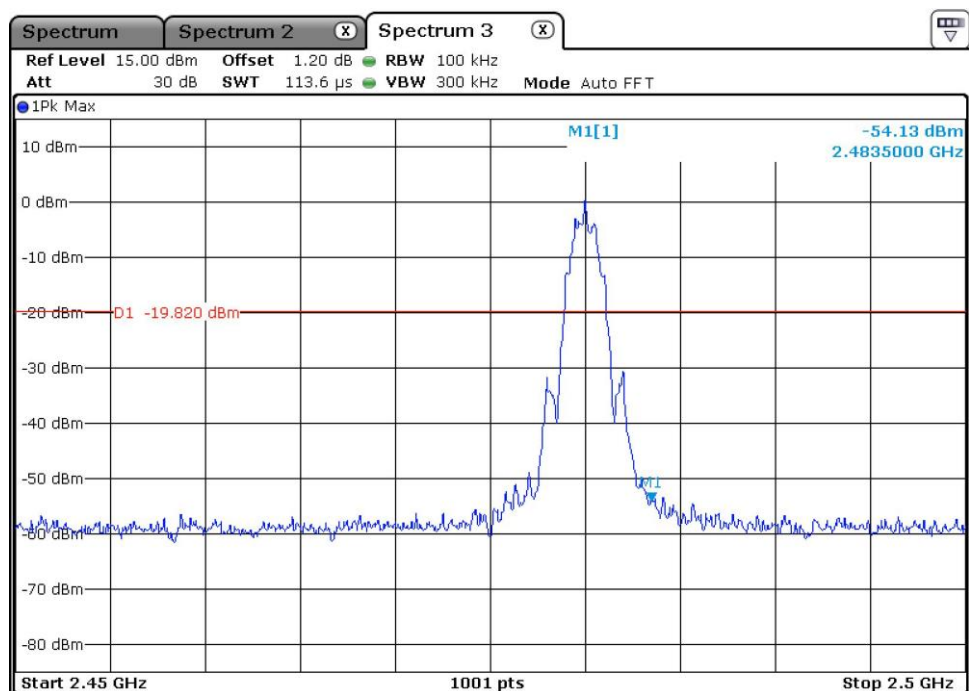
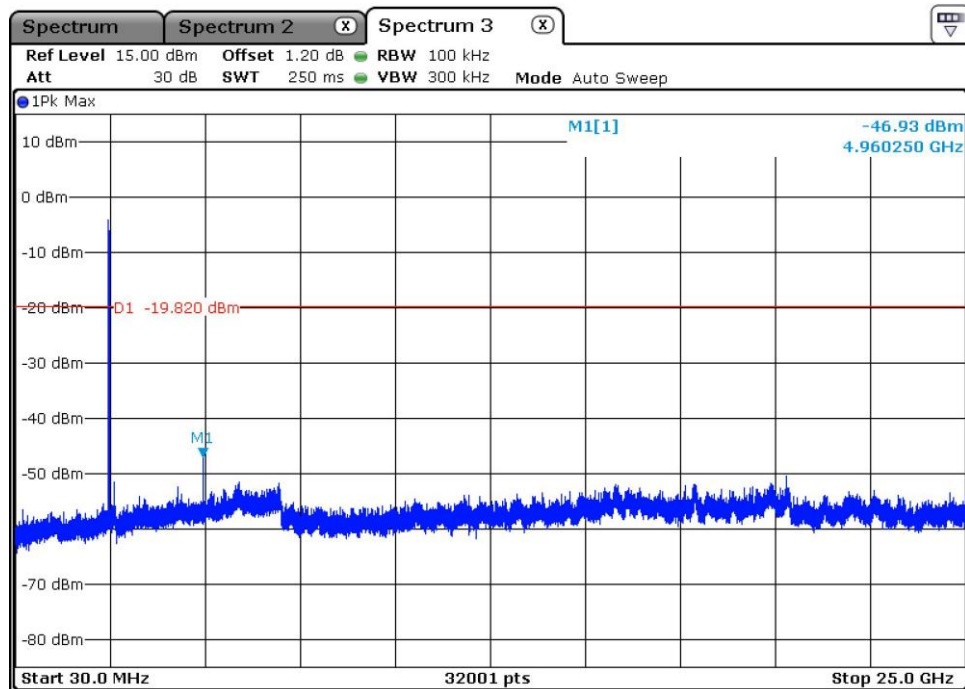
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Remark: worst case is recorded in this report.









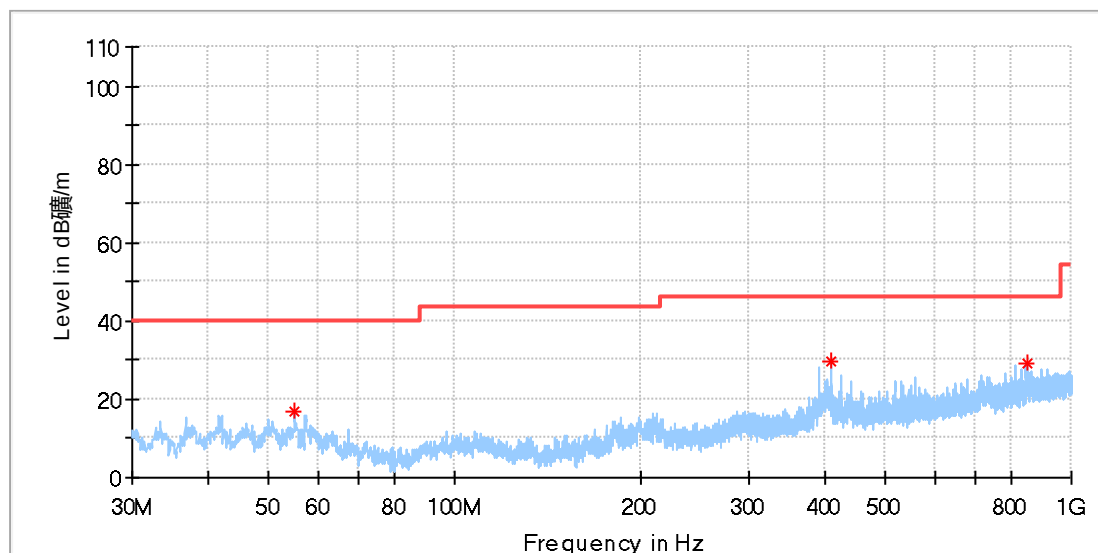
Appendix B.5: Test Results of Radiated Spurious Emissions and Radiated Emissions in Restricted Bands

Remark: worst case is recorded in this report.

30 MHz to 1GHz

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_Low Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



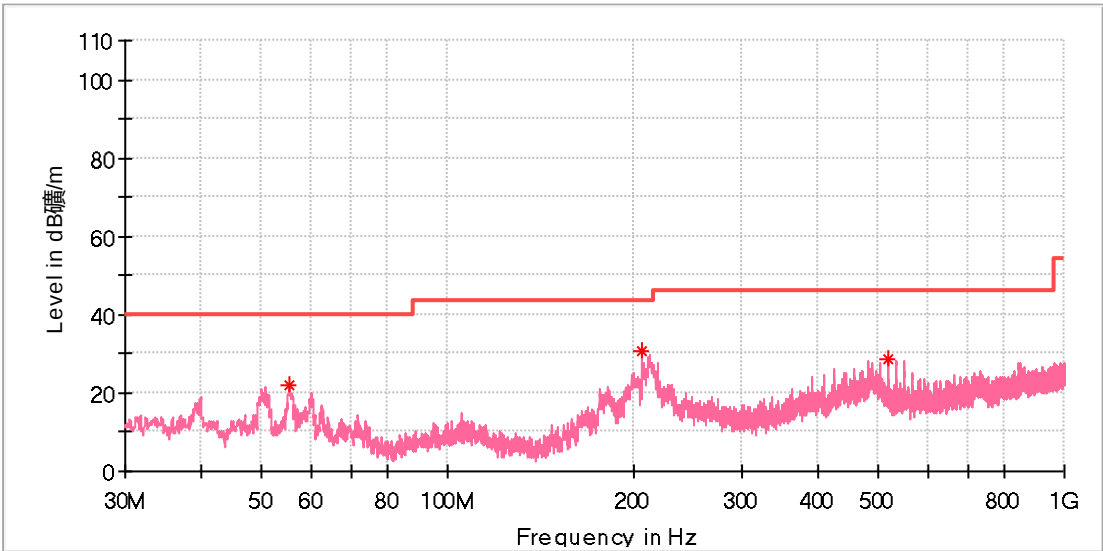
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.026000	16.98	---	40.00	23.02	100.0	H	124.0	-18.7
406.893500	29.62	---	46.00	16.38	100.0	H	53.0	-14.0
845.236500	29.20	---	46.00	16.80	100.0	H	264.0	-6.0

Produkte
Products

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_Low Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



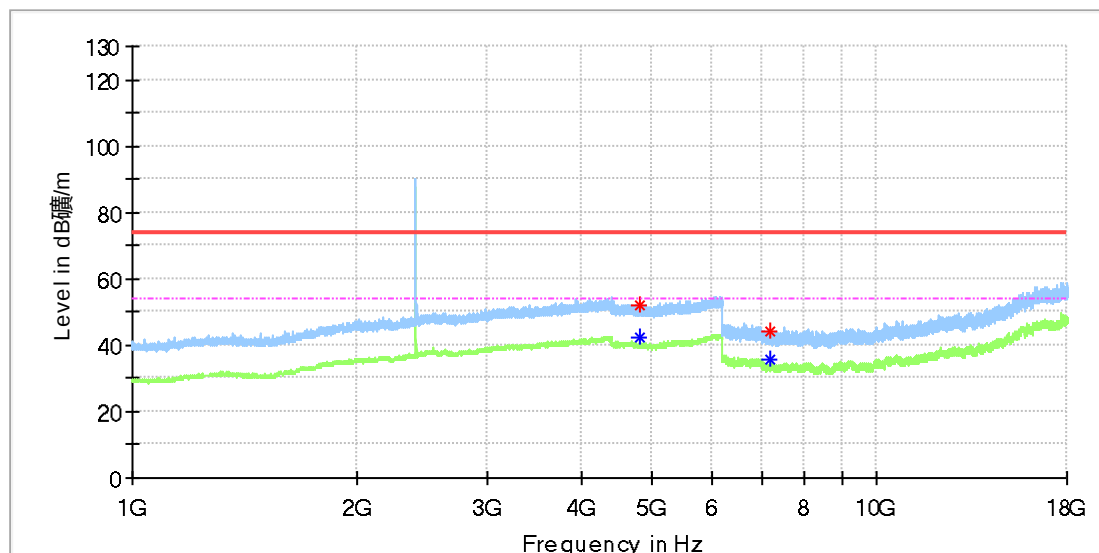
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.365500	22.01	---	40.00	17.99	100.0	V	86.0	-18.8
206.249000	30.57	---	43.50	12.93	100.0	V	7.0	-19.2
518.395000	28.74	---	46.00	17.26	100.0	V	135.0	-11.9

Above 1GHz
Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_Low Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



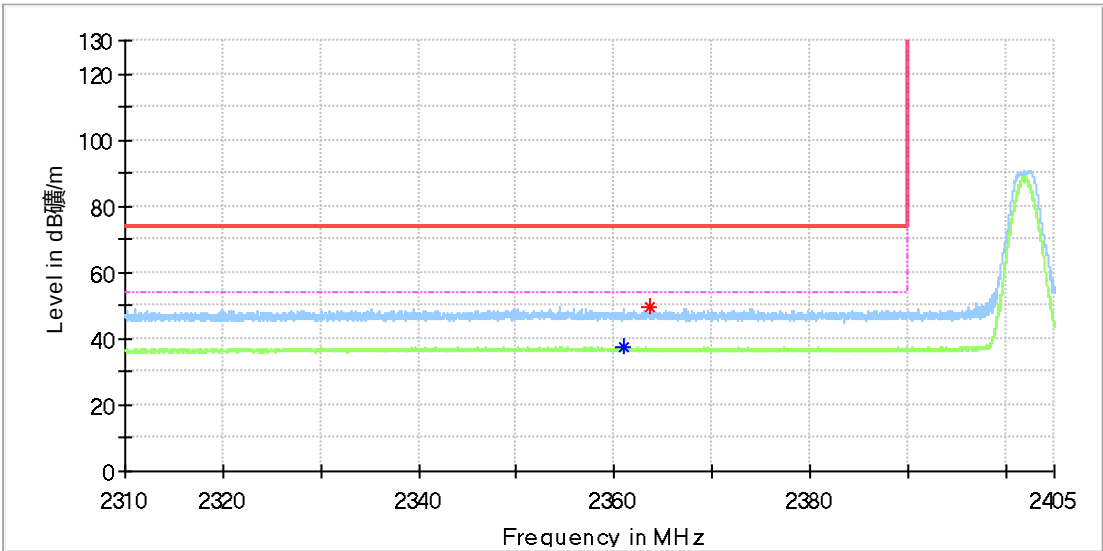
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	---	42.19	54.00	11.81	100.0	H	103.0	13.6
4803.500000	51.86	---	74.00	22.14	100.0	H	219.0	13.6
7206.441667	44.20	---	74.00	29.80	100.0	H	60.0	8.8
7207.425000	---	35.53	54.00	18.47	100.0	H	254.0	8.8

Produkte
Products

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_Low Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



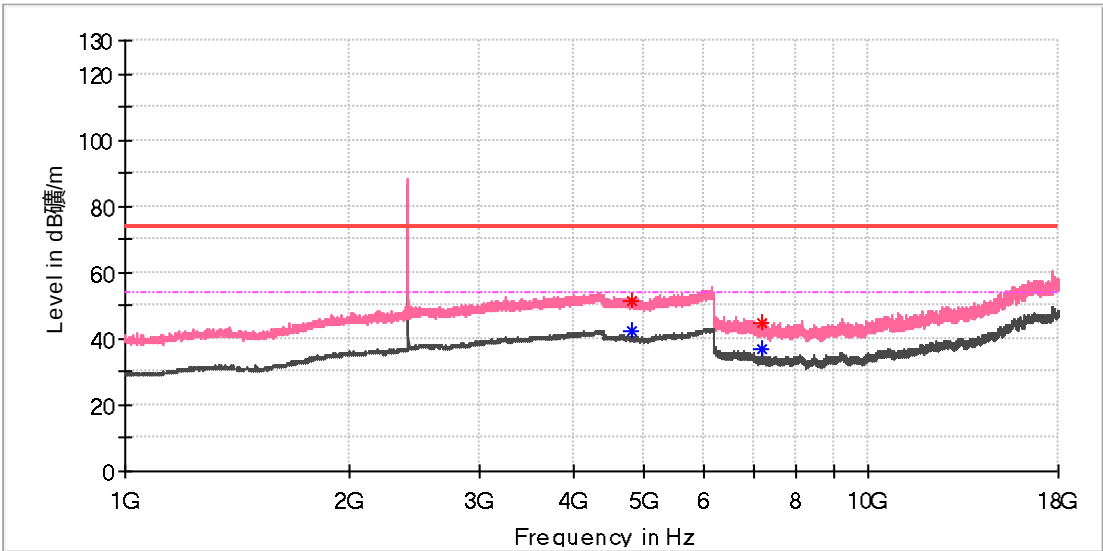
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2361.048530	---	37.61	54.00	16.39	100.0	H	287.0	6.9
2363.661030	49.75	---	74.00	24.25	100.0	H	163.0	6.9

Produkte
Products

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_Low Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

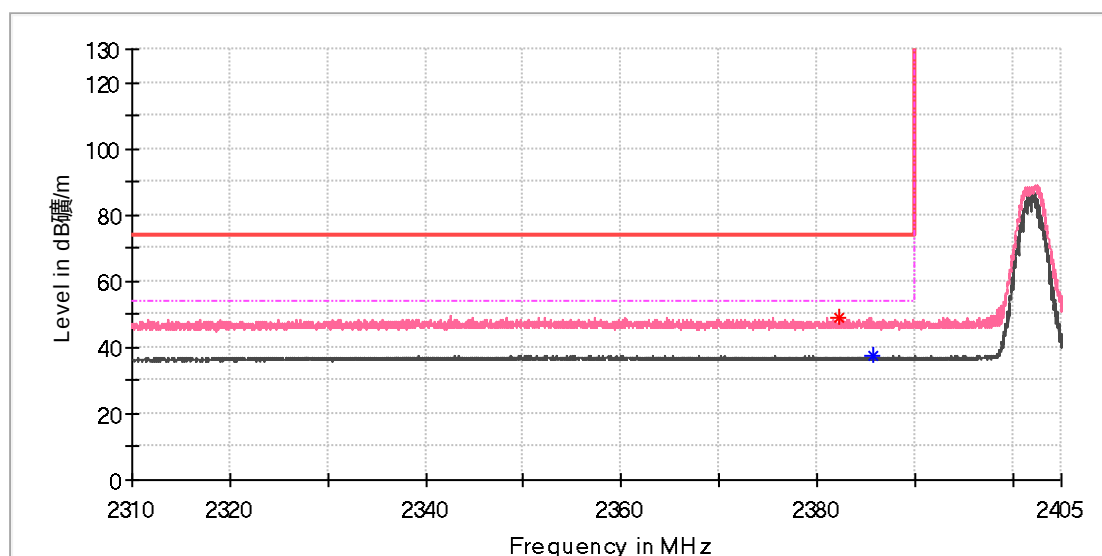


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	42.18	54.00	11.82	100.0	V	293.0	13.6
4805.000000	51.59	---	74.00	22.41	100.0	V	115.0	13.6
7205.458333	---	36.92	54.00	17.08	100.0	V	10.0	8.8
7206.933333	44.52	---	74.00	29.48	100.0	V	10.0	8.8

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_Low Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



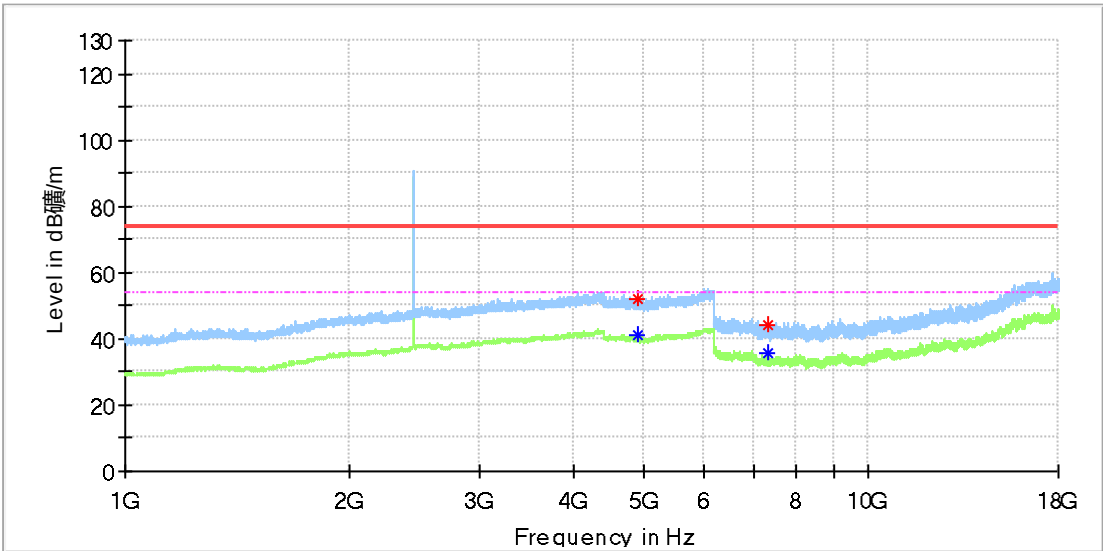
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2382.241912	49.20	---	74.00	24.80	100.0	V	84.0	7.0
2385.706618	---	37.27	54.00	16.73	100.0	V	95.0	7.0

Produkte
Products

EUT Information

EUT Name: DJI OM 4
Model: OK100
Test Mode: TX_BLE2M_Mid Channel
Test Voltage:: Battery
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

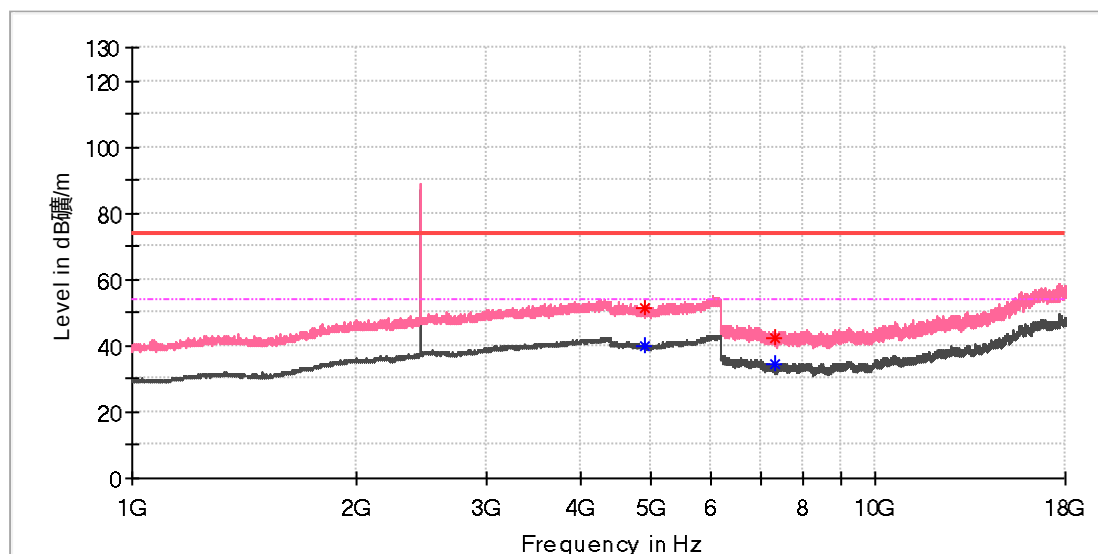


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	---	41.21	54.00	12.79	100.0	H	252.0	13.4
4879.500000	51.80	---	74.00	22.20	100.0	H	252.0	13.4
7318.541667	44.34	---	74.00	29.66	100.0	H	277.0	8.2
7319.033333	---	35.60	54.00	18.40	100.0	H	277.0	8.2

EUT Information

EUT Name: DJI OM 4
Model: OK100
Test Mode: TX_BLE2M_Mid Channel
Test Voltage:: Battery
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

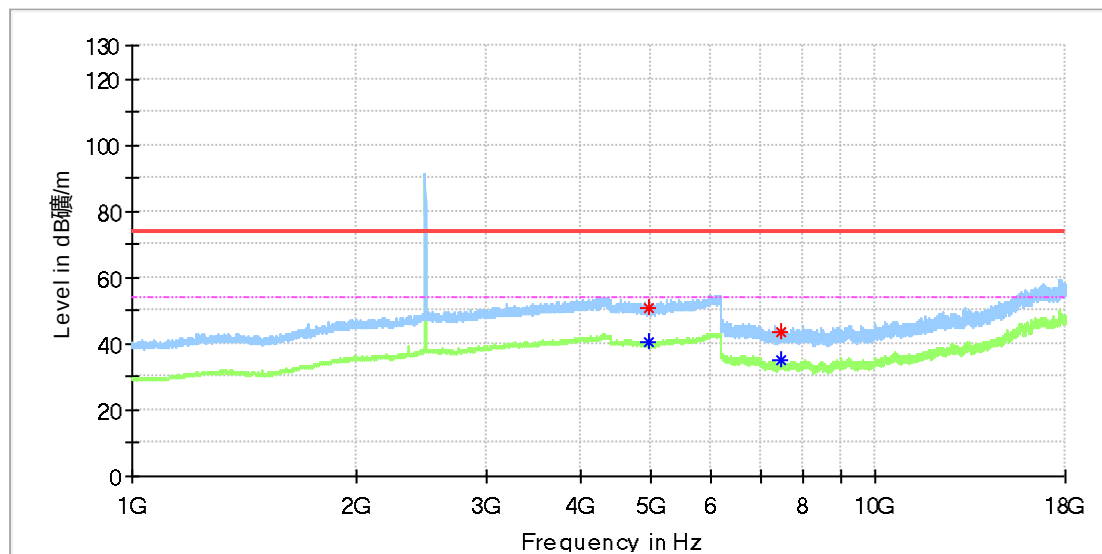


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.500000	51.16	---	74.00	22.84	100.0	V	273.0	13.4
4880.500000	---	40.19	54.00	13.81	100.0	V	273.0	13.4
7318.541667	---	34.26	54.00	19.74	100.0	V	223.0	8.2
7319.525000	42.61	---	74.00	31.39	100.0	V	0.0	8.2

EUT Information

EUT Name: DJI OM 4
Model: OK100
Test Mode: TX_BLE2M_High Channel
Test Voltage:: Battery
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



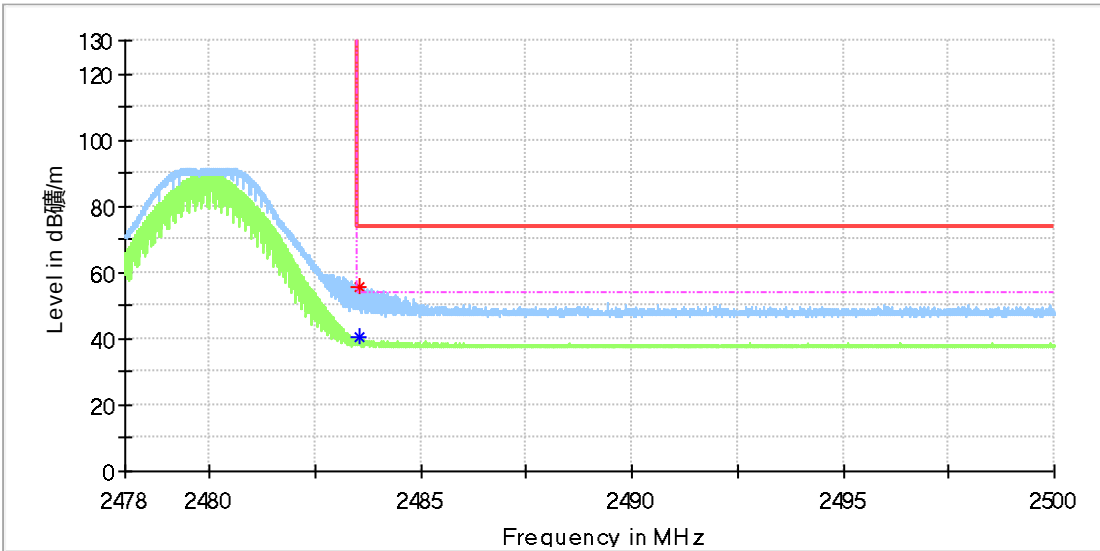
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.500000	---	40.66	54.00	13.34	100.0	H	226.0	13.2
4960.000000	51.05	---	74.00	22.95	100.0	H	71.0	13.2
7438.016667	43.41	---	74.00	30.59	100.0	H	268.0	8.4
7438.016667	---	35.18	54.00	18.82	100.0	H	268.0	8.4

Produkte
Products

EUT Information

EUT Name: DJI OM 4
Model: OK100
Test Mode: TX_BLE2M_High Channel
Test Voltage:: Battery
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



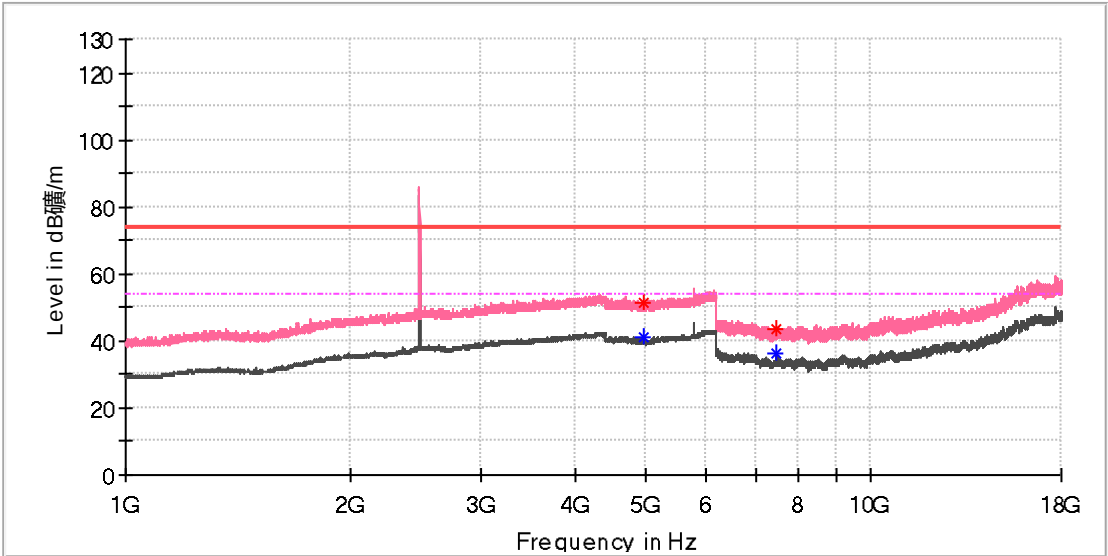
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.525882	---	40.65	54.00	13.35	100.0	H	62.0	7.4
2483.525882	55.84	---	74.00	18.16	100.0	H	62.0	7.4

Produkte
Products

EUT Information

EUT Name:	DJI OM 4
Model:	OK100
Test Mode:	TX_BLE2M_High Channel
Test Voltage::	Battery
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



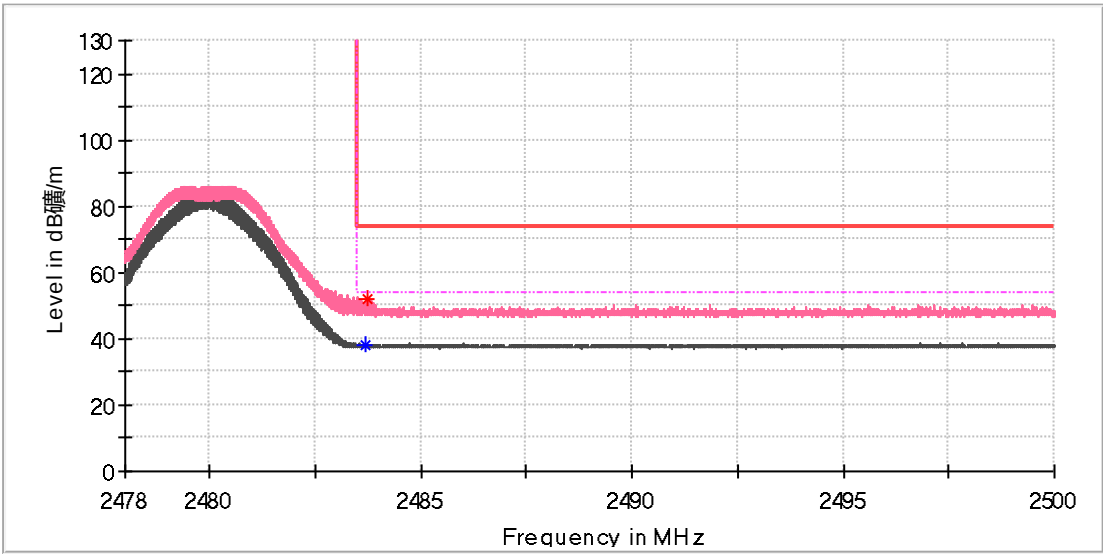
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.000000	51.14	---	74.00	22.86	100.0	V	294.0	13.2
4959.500000	---	40.99	54.00	13.01	100.0	V	301.0	13.2
7439.983333	43.81	---	74.00	30.19	100.0	V	26.0	8.4
7440.966667	---	36.06	54.00	17.94	100.0	V	355.0	8.4

Produkte
Products

EUT Information

EUT Name: DJI OM 4
Model: OK100
Test Mode: TX_BLE2M_High Channel
Test Voltage:: Battery
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

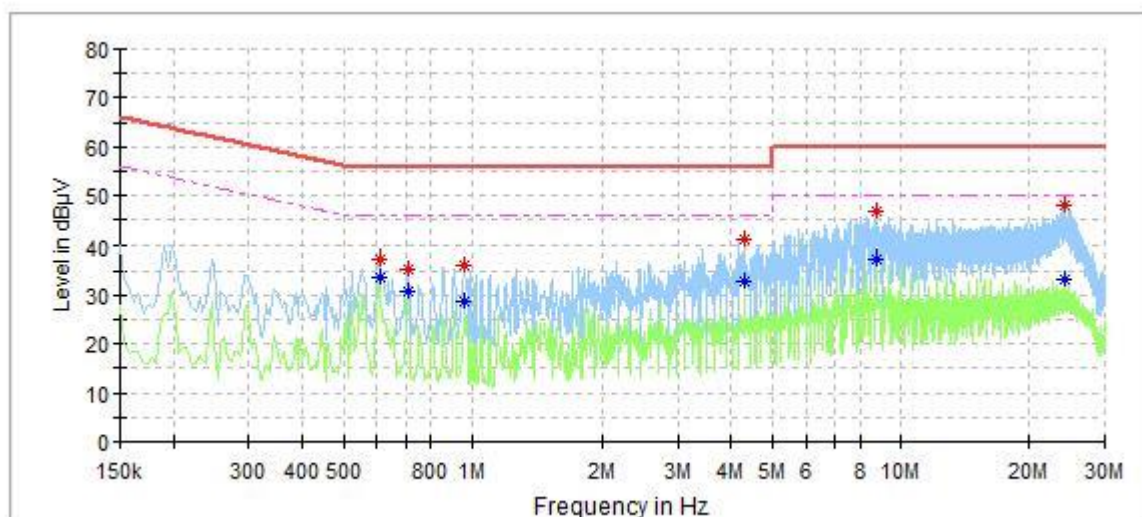
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.700588	---	38.31	54.00	15.69	100.0	V	129.0	7.4
2483.736177	52.02	---	74.00	21.98	100.0	V	2.0	7.4

Appendix B.6: Test Plots of Conducted Emission on AC Mains

Remark: worst case is recorded in this report.

EUT Information

EUT Name:	DJI OM 4
Order No.:	168269739 330
Model:	OK100
Test Mode:	Transmission with charging mode (10% power for EUT and Phone)
Test Voltage:	AC 120V, 60Hz
Test By:	Shower.Dai
Review By:	Gary Chen
Remark:	



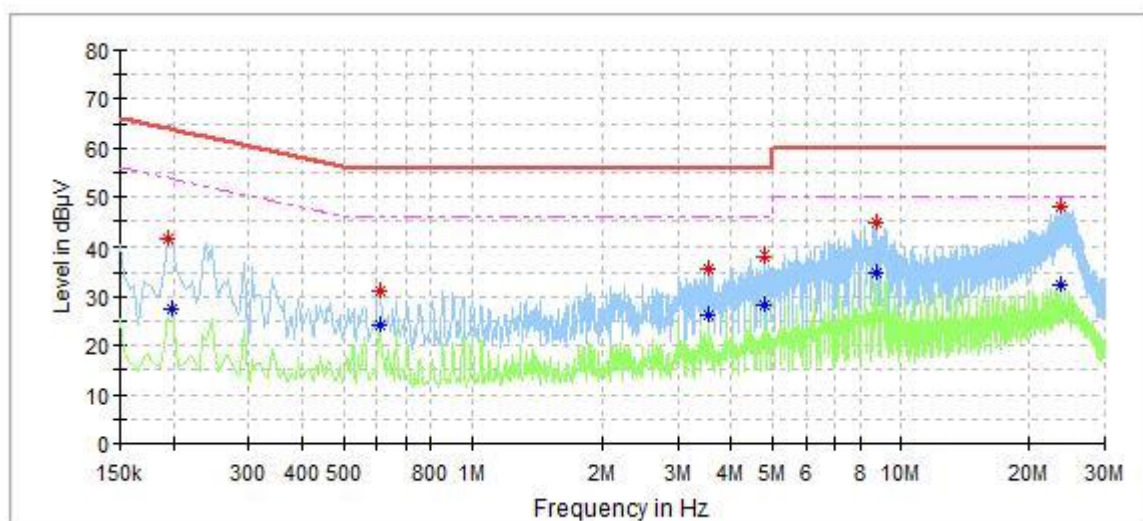
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.608000	37.37	---	56.00	18.63	L1	9.7
0.608000	---	33.82	46.00	12.18	L1	9.7
0.708000	---	30.96	46.00	15.04	L1	9.7
0.712000	35.09	---	56.00	20.91	L1	9.7
0.960000	36.26	---	56.00	19.74	L1	9.7
0.960000	---	28.78	46.00	17.22	L1	9.7
4.300000	41.00	---	56.00	15.00	L1	9.8
4.300000	---	32.85	46.00	13.15	L1	9.8
8.792000	46.57	---	60.00	13.43	L1	10.0
8.792000	---	37.34	50.00	12.66	L1	10.0
24.128000	48.18	---	60.00	11.82	L1	10.5
24.268000	---	33.12	50.00	16.88	L1	10.5

Produkte
Products

EUT Information

EUT Name: DJI OM 4
Order No.: 168269739 330
Model: OK100
Test Mode: Transmission with charging mode (10% power for EUT and Phone)
Test Voltage: AC 120V, 60Hz
Test By: Shower.Dai
Review By: Gary Chen
Remark:



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.194000	41.30	---	63.86	22.57	N	9.6
0.198000	---	27.42	53.69	26.27	N	9.6
0.608000	---	24.30	46.00	21.70	N	9.7
0.608000	31.10	---	56.00	24.90	N	9.7
3.528000	---	26.38	46.00	19.62	N	9.8
3.528000	35.89	---	56.00	20.11	N	9.8
4.816000	---	28.28	46.00	17.72	N	9.9
4.816000	38.22	---	56.00	17.78	N	9.9
8.724000	---	34.89	50.00	15.11	N	10.0
8.724000	44.56	---	60.00	15.44	N	10.0
23.704000	---	32.58	50.00	17.42	N	10.5
23.704000	47.90	---	60.00	12.10	N	10.5