

FCC PART 15.249

TEST REPORT

For

MPOW TECHNOLOGY CO., LIMITED

FLAT/RM 605 6/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET
MONGKOK KL HONG KONG

FCC ID: 2AMH2-BH473A-1

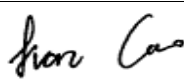
Report Type: Original Report	Product Type: Transmitter
Report Number: RDG200821003-00A	
Report Date: 2020-09-29	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Transmitter
EUT Model:	BH473A
Operation Frequency:	2403-2478MHz
Modulation Type:	GFSK
Rated Input Voltage:	DC 5V from USB system
Serial Number:	RDG200821003-RF-S1
EUT Received Date:	2020.8.18
EUT Received Status:	Good

Objective

This type approval report is prepared on behalf of **MPOW TECHNOLOGY CO., LIMITED** in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.215 and 15.249 rules.

Related Submittal(s)/Grant(s)

Part of system submittal with FCC ID: 2AMH2-BH415A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “△”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

The device employs 26 channels as below:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	14	2442
2	2406	15	2445
...	...	...	...
...	...	...	...
12	2436	25	2475
13	2439	26	2478

3 channels were tested: 2403MHz, 2439MHz and 2478MHz

EUT Exercise Software

No software was used in test, the device was configured to engineer mode by manufacturer.

Equipment Modifications

No modifications were made to the EUT.

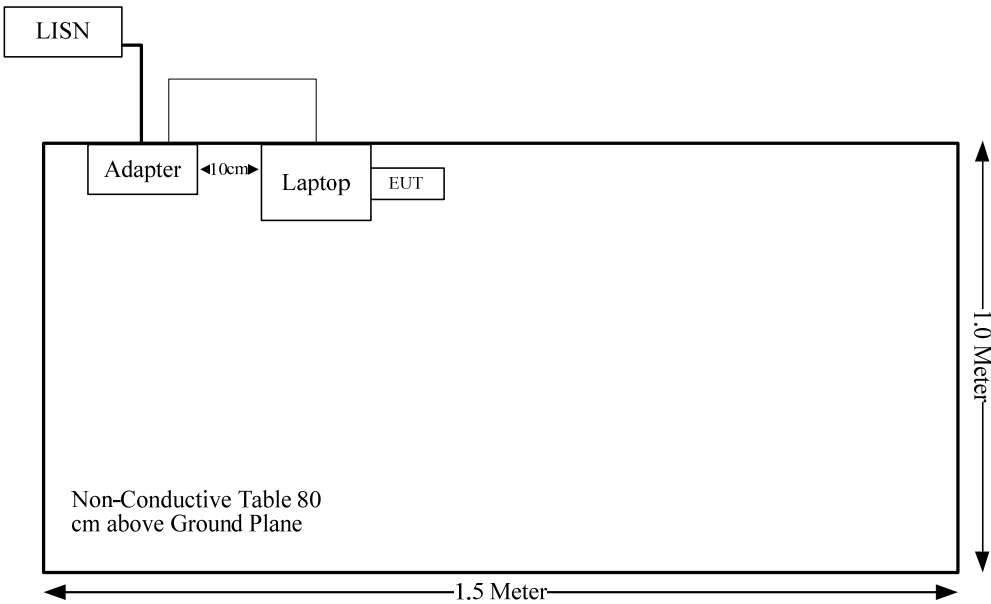
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	QDS-BRCM1017
DELL	Adapter	P09323	ADA054815454

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
DC Cable	Yes	yes	2.0	Adapter	Laptop

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Compliance
15.205, §15.209, §15.249	Radiated Emissions	Compliance
§15.215 (c)	20 dB Bandwidth	Compliance

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has internal Antenna permanently attached to the unit, the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

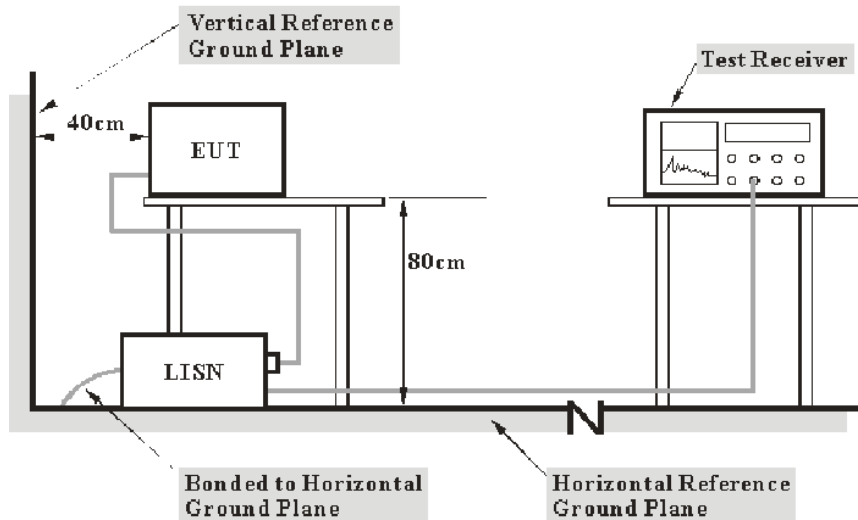
Result: Compliant.

FCC §15.207 (a)– AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main LISN with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

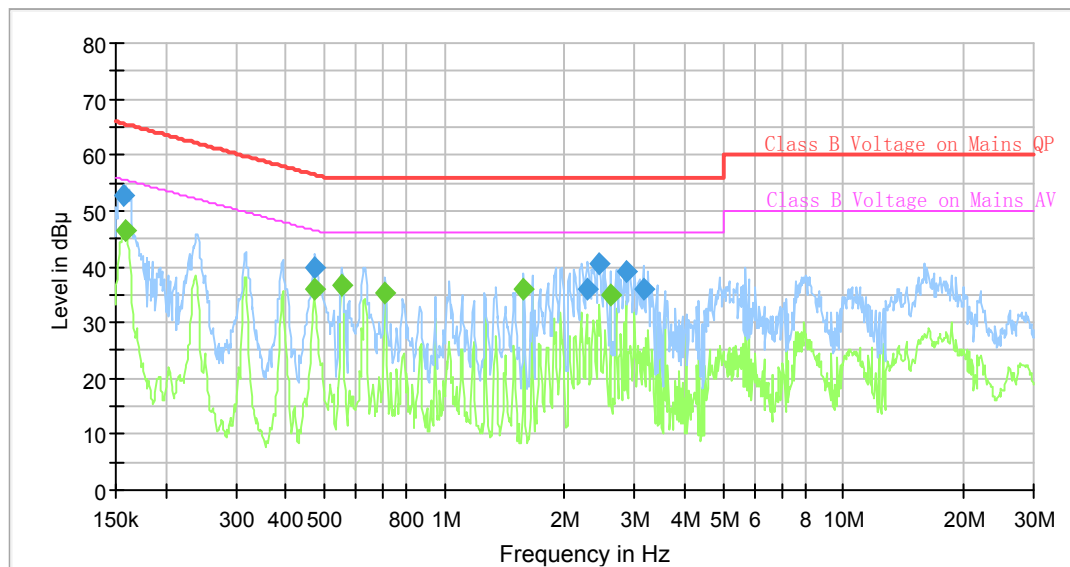
Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV 216	101614	2019-09-12	2020-09-12
R&S	EMI Test Receiver	ESCI	101121	2020-07-07	2021-07-07
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	Test Software	EMC32	Version 9.10.00	N/A	N/A

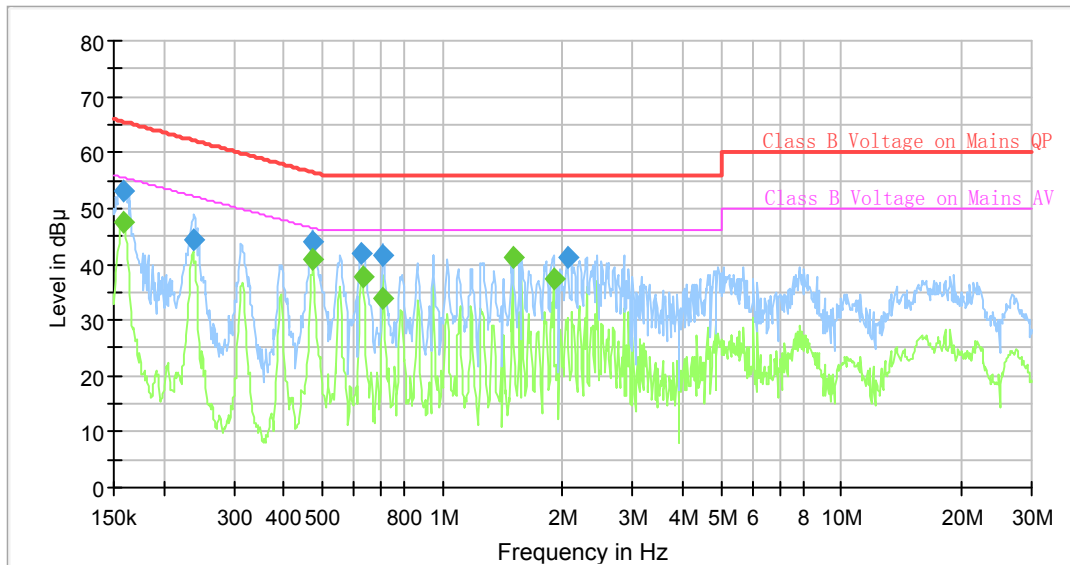
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

Temperature:	25.3°C
Relative Humidity:	64%
ATM Pressure:	100.1kPa
Tester:	Barry Yang
Test Date:	2020-09-07

Test Mode: Transmitting**Test Result:** Compliance. Please refer to following table and plots:**AC120 V, 60 Hz, Line:****Final Result**

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.157671	52.67	---	65.59	12.92	9.000	L1	9.6
0.158459	---	46.52	55.54	9.02	9.000	L1	9.6
0.472373	---	35.94	46.47	10.53	9.000	L1	9.6
0.474735	39.82	---	56.43	16.61	9.000	L1	9.6
0.551358	---	36.71	46.00	9.29	9.000	L1	9.6
0.711054	---	35.12	46.00	10.88	9.000	L1	9.7
1.579328	---	36.06	46.00	9.94	9.000	L1	9.7
2.284341	36.10	---	56.00	19.90	9.000	L1	9.7
2.449547	40.50	---	56.00	15.50	9.000	L1	9.7
2.613633	---	34.99	46.00	11.01	9.000	L1	9.7
2.844905	39.12	---	56.00	16.88	9.000	L1	9.7
3.159039	35.88	---	56.00	20.12	9.000	L1	9.7

AC120 V, 60 Hz, Neutral:**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.158459	---	47.60	55.54	7.94	9.000	N	9.6
0.158459	52.98	---	65.54	12.56	9.000	N	9.6
0.238526	44.44	---	62.15	17.71	9.000	N	9.6
0.474735	---	40.85	46.43	5.58	9.000	N	9.6
0.474735	44.02	---	56.43	12.41	9.000	N	9.6
0.624575	41.81	---	56.00	14.19	9.000	N	9.6
0.630837	---	37.87	46.00	8.13	9.000	N	9.6
0.711054	---	33.74	46.00	12.26	9.000	N	9.6
0.711054	41.64	---	56.00	14.36	9.000	N	9.6
1.502491	---	41.23	46.00	4.77	9.000	N	9.6
1.899401	---	37.46	46.00	8.54	9.000	N	9.6
2.057187	41.33	---	56.00	14.67	9.000	N	9.6

FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS**Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

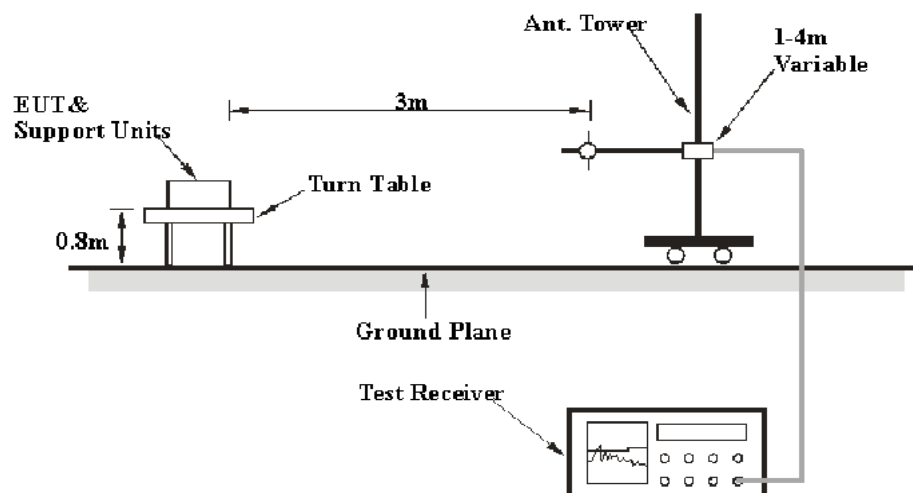
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

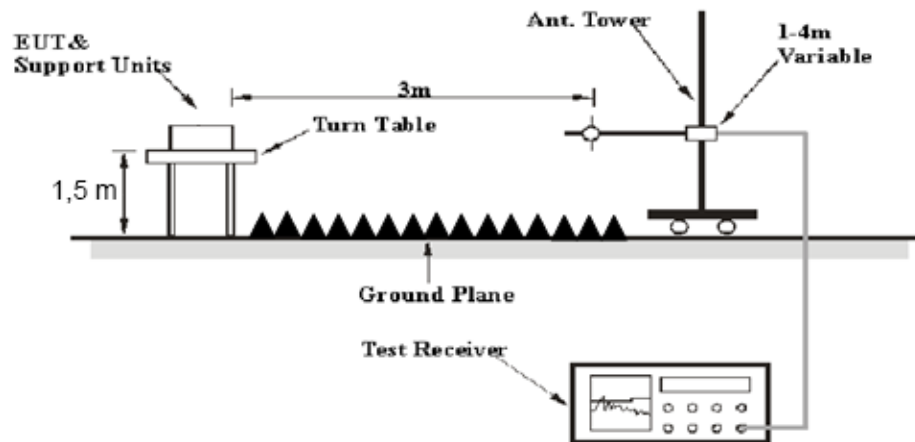
As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT Setup

Below 1 GHz:



1-25 GHz:

The radiated emission below 1GHz tests were performed in the 10 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber test site B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.249 limits.

Test Equipment Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Below 1GHz					
Sunol Sciences	Antenna	JB3	A060611-2	2020-08-25	2023-08-25
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2019-09-24	2020-09-24
Sonoma	Amplifier	310N	185914	2019-10-13	2020-10-13
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Radiation Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2017-12-06	2020-12-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2020-07-07	2021-07-07
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2020-06-27	2021-06-27
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2020-06-27	2021-06-27
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2020-06-16	2021-06-16
Mini Circuits	High Pass Filter	VHF-6010+	31118	2020-06-16	2021-06-16

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

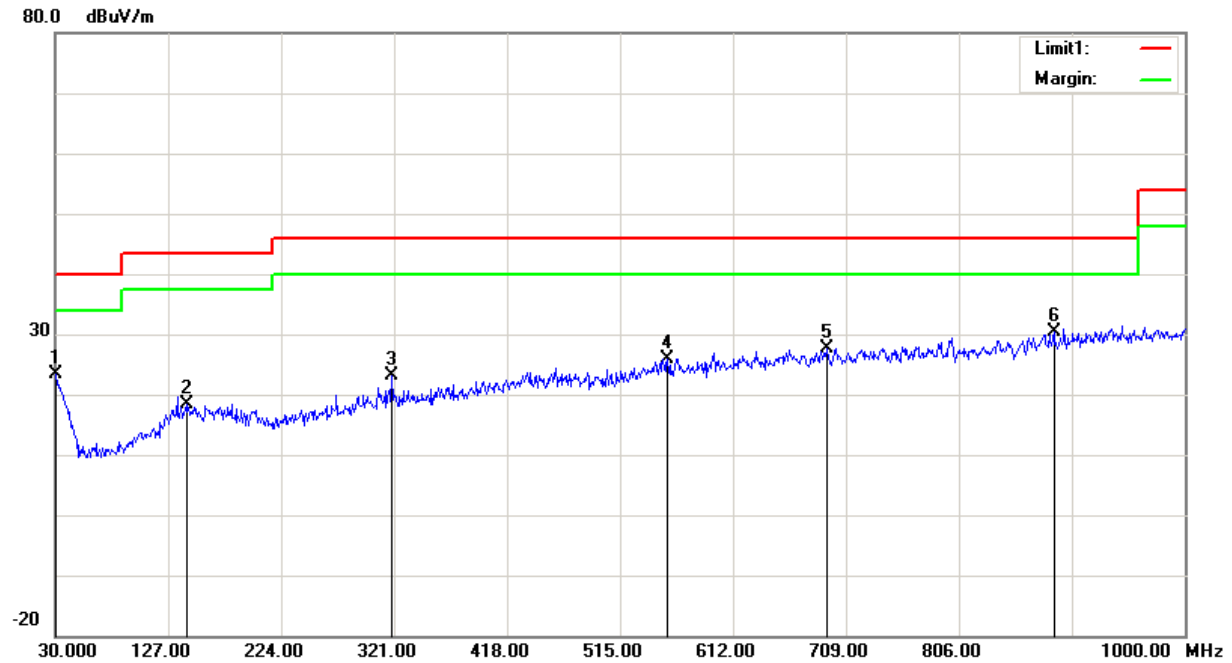
Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	28.5°C	27.5 °C
Relative Humidity:	36%	40%
ATM Pressure:	100.6kPa	100.1kPa
Tester:	Felix Wang	Bond Qin
Test Date:	2020-09-13	2020-09-17

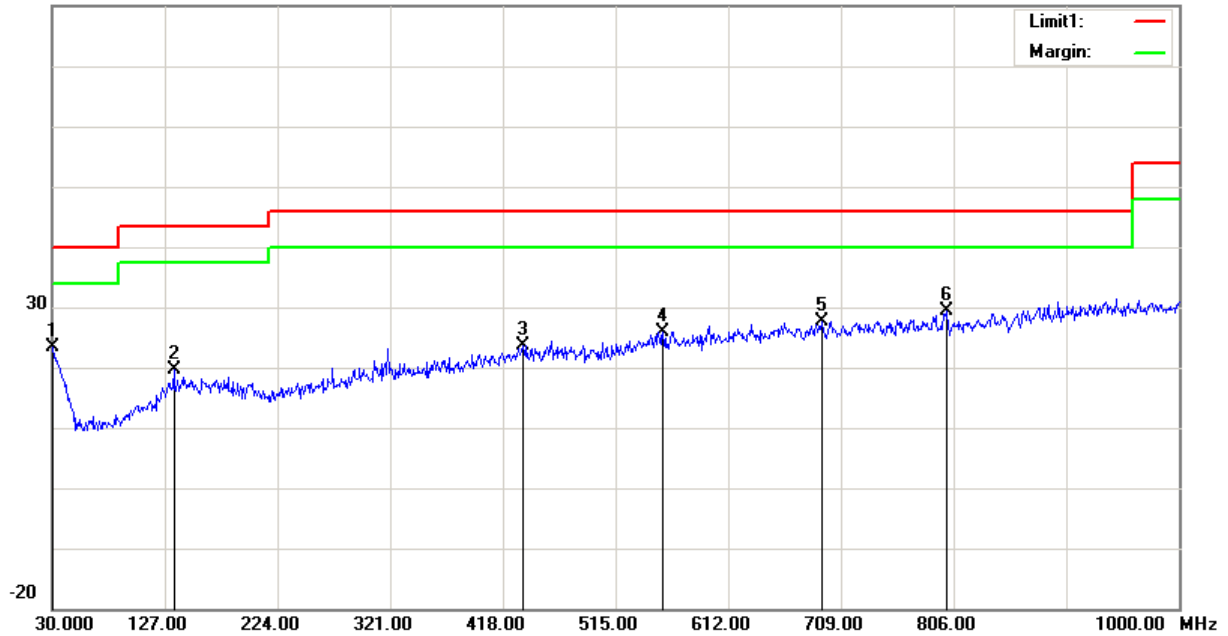
Test Mode: Transmitting

1) 30MHz-1GHz(Middle channel was the worst)

Horizontal:



Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.9700	28.25	peak	-4.88	23.37	40.00	16.63
142.5200	27.75	peak	-9.26	18.49	43.50	25.01
319.0600	30.28	peak	-7.14	23.14	46.00	22.86
555.7400	27.64	peak	-1.65	25.99	46.00	20.01
692.5100	27.42	peak	0.21	27.63	46.00	18.37
887.4800	27.13	peak	3.32	30.45	46.00	15.55

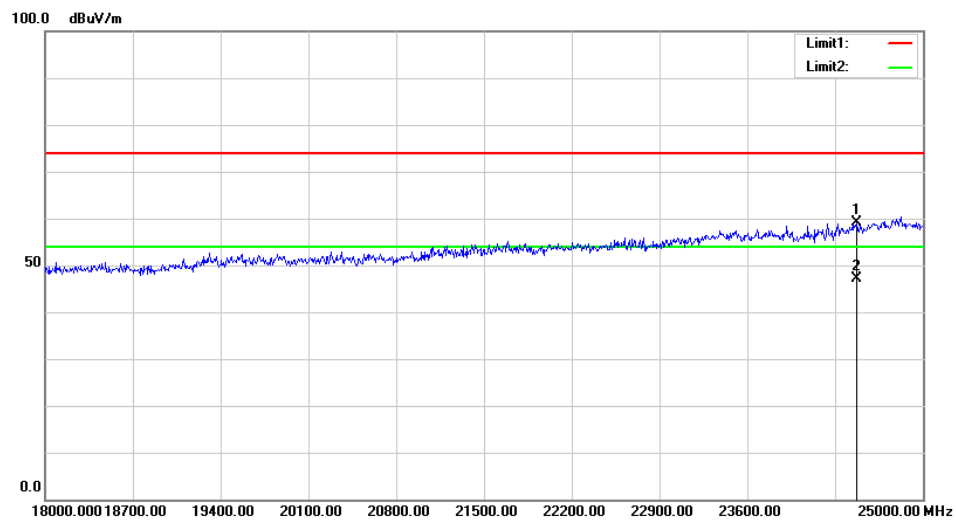
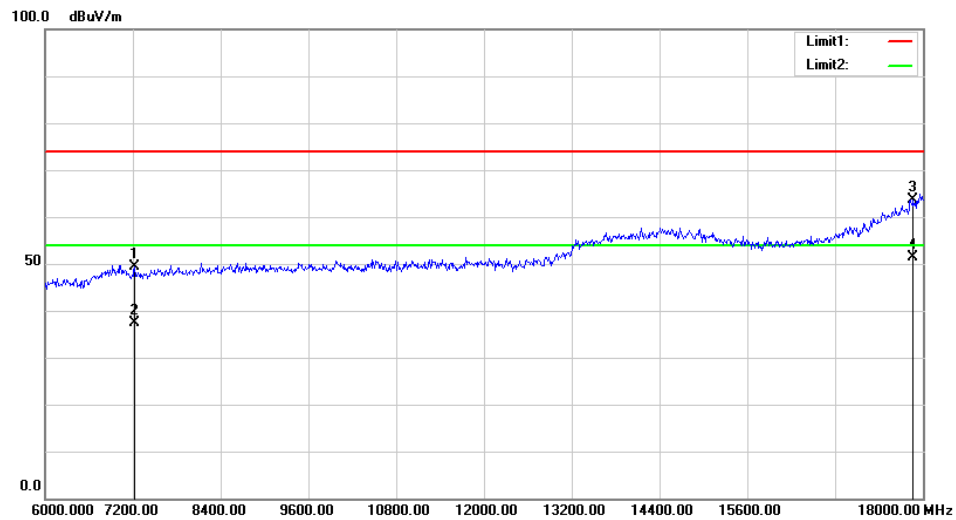
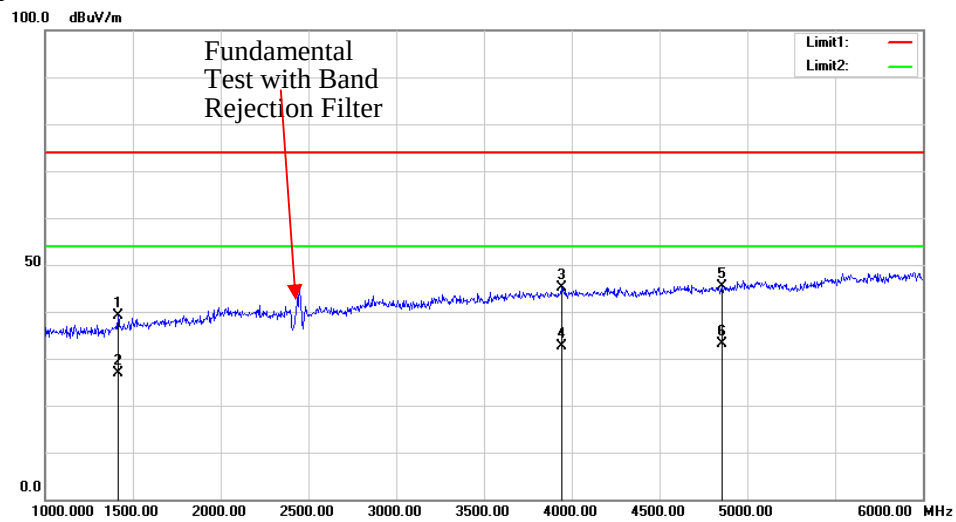
Vertical:80.0 dB μ V/m

Frequency (MHz)	Reading (dB μ V)	Detector	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.9700	28.25	peak	-4.88	23.37	40.00	16.63
134.7600	29.33	peak	-9.65	19.68	43.50	23.82
435.4600	28.15	peak	-4.51	23.64	46.00	22.36
555.7400	27.64	peak	-1.65	25.99	46.00	20.01
692.5100	27.42	peak	0.21	27.63	46.00	18.37
800.1800	28.21	peak	1.09	29.30	46.00	16.70

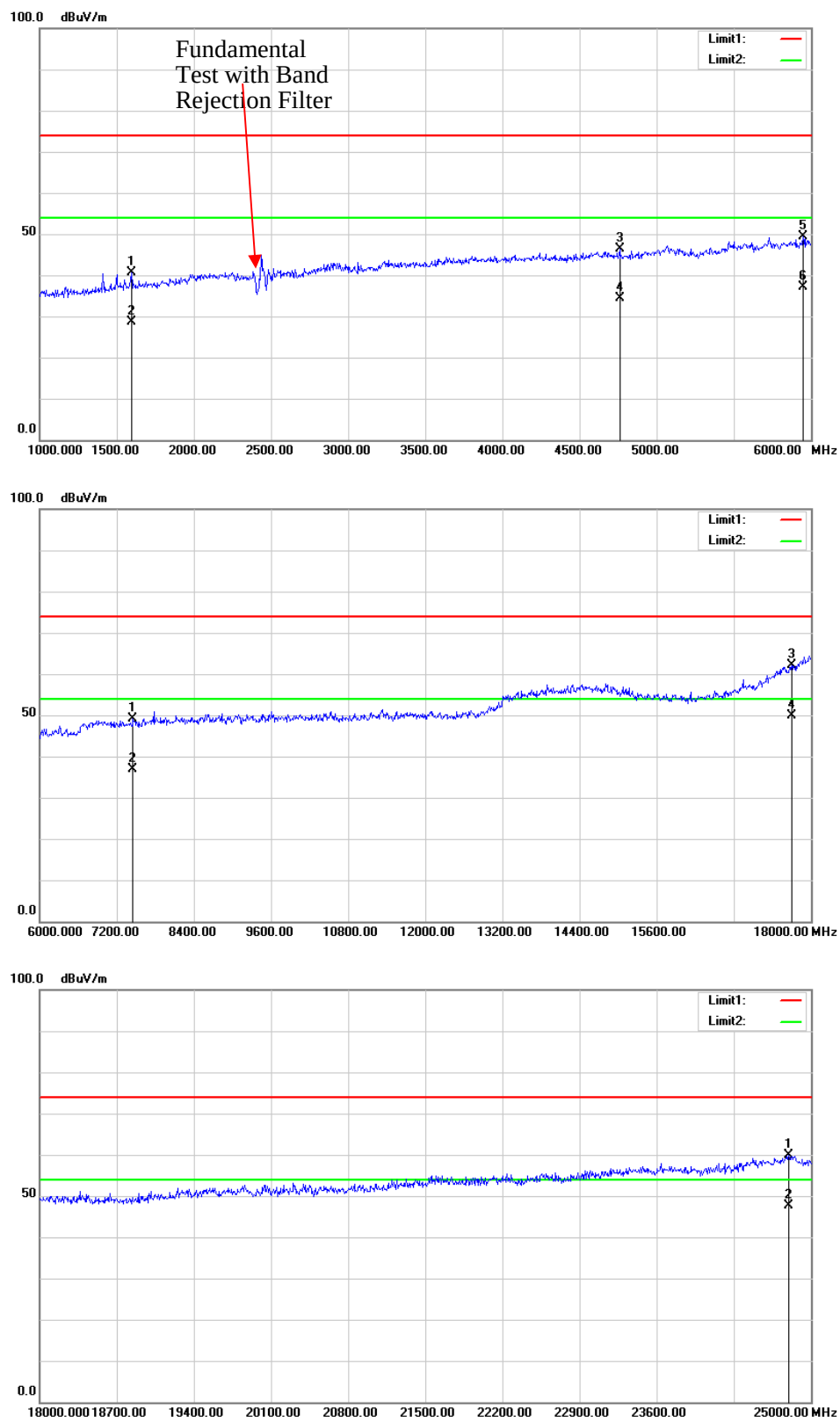
2) 1GHz-25GHz:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark	Polar (H/V)	Factor (dB/m)					
2403 MHz									
2403.00	51.41	PK	H	28.11	1.80	0.00	81.32	113.98	32.66
2403.00	48.00	AV	H	28.11	1.80	0.00	77.91	93.98	16.07
2403.00	48.84	PK	V	28.11	1.80	0.00	78.75	113.98	35.23
2403.00	45.23	AV	V	28.11	1.80	0.00	75.14	93.98	18.84
2400.00	29.91	PK	H	28.10	1.80	0.00	59.81	74.00	14.19
2400.00	14.60	AV	H	28.10	1.80	0.00	44.50	54.00	9.50
4806.00	36.73	PK	H	32.91	3.17	25.60	47.21	74.00	26.79
4806.00	24.24	AV	H	32.91	3.17	25.60	34.72	54.00	19.28
7209.00	36.08	PK	H	35.74	4.82	25.61	51.03	74.00	22.97
7209.00	23.66	AV	H	35.74	4.82	25.61	38.61	54.00	15.39
2439 MHz									
2439.00	50.93	PK	H	28.18	1.82	0.00	80.93	113.98	33.05
2439.00	47.97	AV	H	28.18	1.82	0.00	77.97	93.98	16.01
2439.00	49.17	PK	V	28.18	1.82	0.00	79.17	113.98	34.81
2439.00	45.19	AV	V	28.18	1.82	0.00	75.19	93.98	18.79
4878.00	36.22	PK	H	33.06	3.27	25.65	46.90	74.00	27.10
4878.00	24.00	AV	H	33.06	3.27	25.65	34.68	54.00	19.32
7317.00	36.47	PK	H	36.02	4.63	25.72	51.40	74.00	22.60
7317.00	23.89	AV	H	36.02	4.63	25.72	38.82	54.00	15.18
2478 MHz									
2478.00	50.98	PK	H	28.26	1.84	0.00	81.08	113.98	32.90
2478.00	46.84	AV	H	28.26	1.84	0.00	76.94	93.98	17.04
2478.00	48.49	PK	V	28.26	1.84	0.00	78.59	113.98	35.39
2478.00	45.84	AV	V	28.26	1.84	0.00	75.94	93.98	18.04
2483.50	27.56	PK	H	28.27	1.84	0.00	57.67	74.00	16.33
2483.50	14.78	AV	H	28.27	1.84	0.00	44.89	54.00	9.11
4956.00	37.56	PK	H	33.21	3.23	25.63	48.37	74.00	25.63
4956.00	24.94	AV	H	33.21	3.23	25.63	35.75	54.00	18.25
7434.00	37.52	PK	H	36.33	4.42	25.84	52.43	74.00	21.57
7434.00	23.86	AV	H	36.33	4.42	25.84	38.77	54.00	15.23

**Test plots(Middle channel was the worst):
Horizontal**



Vertical:



FCC §15.215(c) – 20 dB BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
3. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2020-07-07	2021-07-07
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

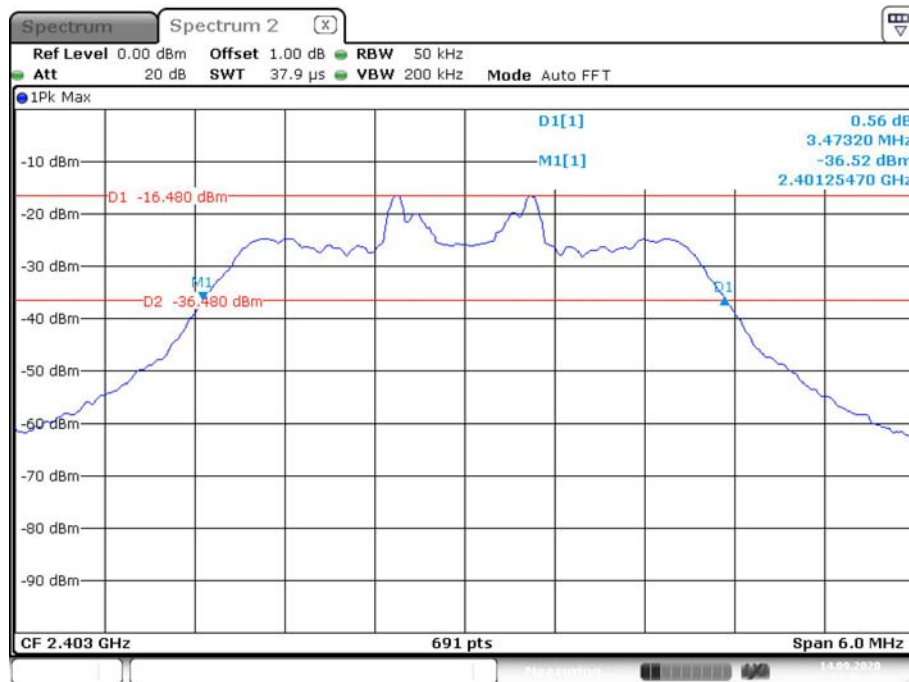
Temperature:	28.4 °C
Relative Humidity:	52%
ATM Pressure:	100.8kPa
Tester:	Rita Huang
Test Date:	2020-09-14

Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting

Frequency (MHz)	20 dB Bandwidth (MHz)
2403	3.473
2439	3.838
2478	3.534

2403 MHz

Date: 14.SEP.2020 11:36:28

Spectrum **Spectrum 2** [X]

Ref Level 0.00 dBm **Offset** 1.00 dB **RBW** 50 kHz
Att 20 dB **SWT** 37.9 μ s **VBW** 200 kHz **Mode** Auto FFT

1Pk Max

D1 -17.410 dBm

D2 -37.410 dBm

M1 3.83790 MHz -37.80 dBm

D1 1.04 dB

CF 2.439 GHz **691 pts** **Span** 6.0 MHz

Spectrum **Spectrum 2** [X]

Ref Level 0.00 dBm **Offset** 1.00 dB **RBW** 50 kHz
Att 20 dB **SWT** 37.9 μ s **VBW** 200 kHz **Mode** Auto FFT

IPk Max

D1[1] 0.44 dB
 3.53400 MHz
 -38.80 dBm
 2.47622870 GHz

M1[1] -38.80 dBm

D1 -18.690 dBm

D2 -38.690 dBm

S1

CF 2.478 GHz **691 pts** **Span** 6.0 MHz

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