



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.247 TEST REPORT

For

MeiG Smart Technology Co., Ltd

3/F, No.88, Qinqiang Road, Xuhui District, Shanghai, China.

FCC ID: 2APJ4-SLM756

Report Type: CHIPC	Product Type: Smart Module
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Report Number:	RSHD200330001-00C
Report Date:	2020-05-18
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	MeiG Smart Technology Co., Ltd
Tested Model:	SLM756
Product Type:	Smart Module
Power Supply:	DC 3.8V
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	Omni Antenna
Maximum Antenna Gain:	0 dBi

**All measurement and test data in this report was gathered from production sample serial number: 20200330001.
(Assigned by the BACL. The EUT supplied by the applicant was received on 2020-03-30)*

Objective

This test report is prepared on behalf of *MeiG Smart Technology Co., Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

This is a CIIPC report base on the original report RSHA190110001-00B with FCC ID: 2APJ4-SLM756 issued on 2019-03-29, the difference between the original device and the current one is as follows:

1. Change the Antenna type.

The above difference will affect part of tests, “ANTENNA REQUIREMENT” and “RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS” were presented in this report, and other data were referred to the original report.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS submissions with FCC ID: 2APJ4-SLM756

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 and 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list for BT3.0:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

RF test software: QRCT

GFSK, $\pi/4$ -DQPSK, 8DPSK Power level: 9.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

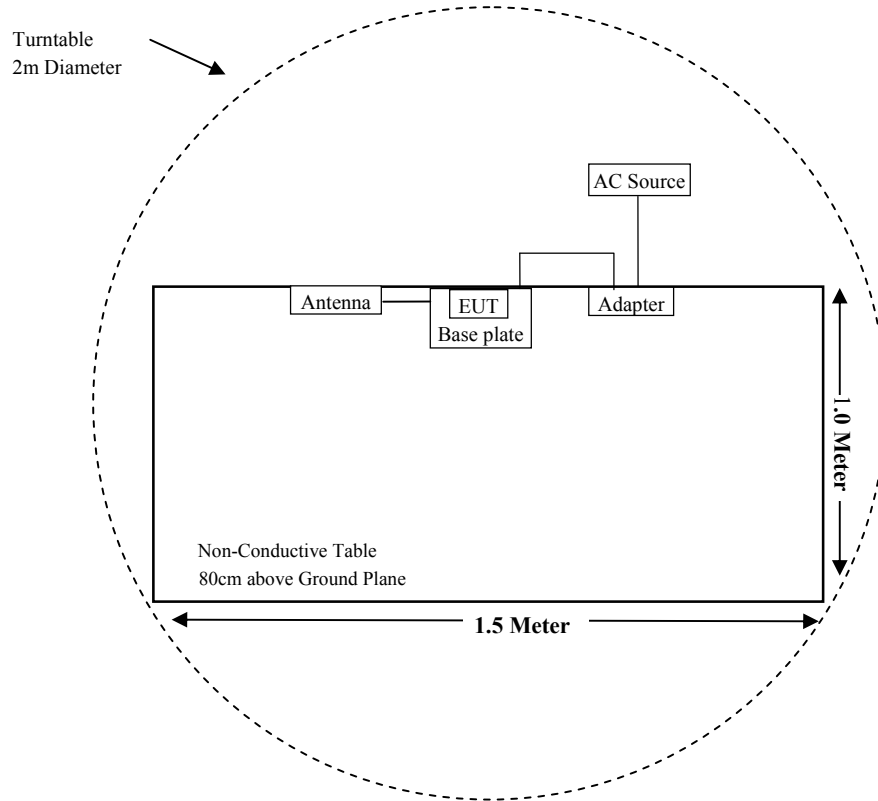
Manufacturer	Description	Model	Serial Number
WEEQU	Adapter	WEEQU-0530DG	/
XiXun	Base plate	LEDOK_V23.2 2019.12	/

External I/O Cable

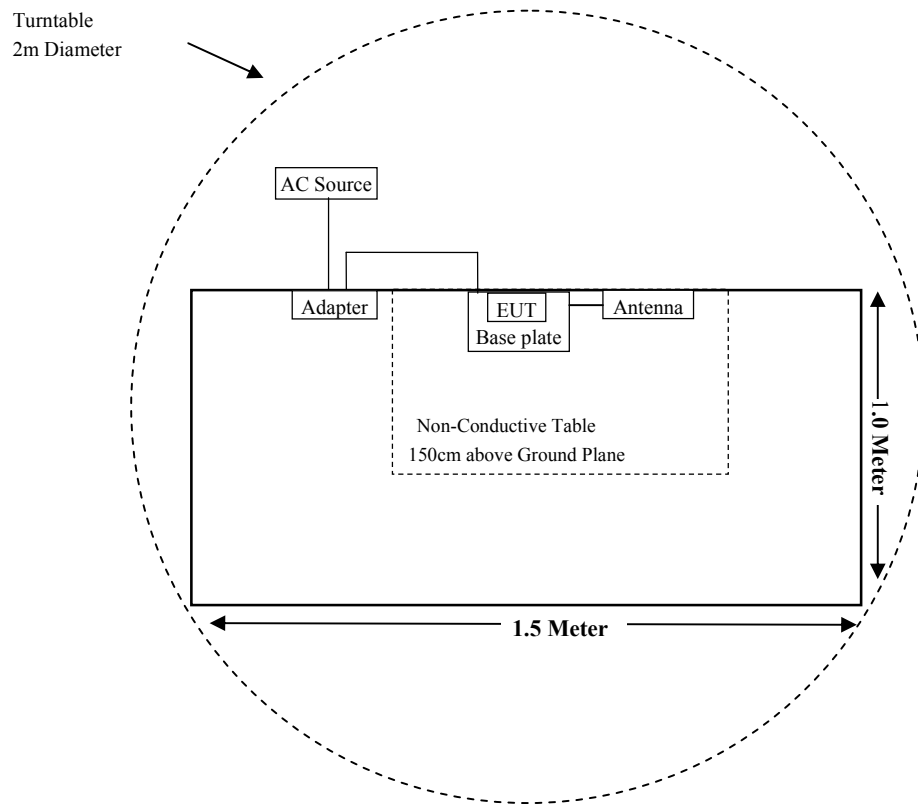
Cable Description	Length (m)	From Port	To
Power Cable	1.0	Base plate	Adapter
Antenna Cable	0.3	Base plate	Antenna

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant (See Note 1)
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant (See Note 1)
§15.247(a)(1)	Channel Separation Test	Compliant (See Note 1)
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant (See Note 1)
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant (See Note 1)
§15.247(b)(1)	Peak Output Power Measurement	Compliant (See Note 1)
§15.247(d)	Band edges	Compliant (See Note 1)

Note 1: For these items, all the test data please refer to the original report RSHA190110001-00B with FCC ID: 2APJ4-SLM756 issued on 2019-03-29.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2019-12-14	2020-12-13
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2017-12-26	2020-12-25
Sonoma Instrument	Pre-amplifier	310N	171205	2019-08-14	2020-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2019-08-15	2020-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2020-04-01	2021-03-31
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2017-07-15	2020-07-14
ETS-LINDGREN	Horn Antenna	3116	2516	2020-01-17	2023-01-16
A.H.Systems,inc	Amplifier	PAM-0118P	512	2020-02-20	2021-02-19
SELECTOR	Amplifier	EM18G40G	060726	2020-03-22	2021-03-21
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2019-08-05	2020-08-04
Narda	Attenuator	10dB	010	2019-08-15	2020-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2019-08-15	2020-08-14

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

FCC §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1310, 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/		f/1500	30
1500-100,000	/		1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data (worst case):

Mode	Frequency Range (MHz)	Maximum Antenna Gain		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	MPE ratio
		(dBi)	(numeric)	(dBm)	(mW)				
802.11b	2412-2462	0.00	1.00	18.00	63.0957	20	0.0126	1.00	0.0126
802.11g		0.00	1.00	17.00	50.1187	20	0.0100	1.00	0.0100
802.11n-HT20		0.00	1.00	17.00	50.1187	20	0.0100	1.00	0.0100
802.11n-HT40	2422-2452	0.00	1.00	17.00	50.1187	20	0.0100	1.00	0.0100
BLE	2402-2480	0.00	1.00	1.00	1.2589	20	0.0003	1.00	0.0003
BT 3.0	2402-2480	0.00	1.00	12.00	15.8489	20	0.0032	1.00	0.0032

Calculation of maximum antenna gain based on ERP/EIRP

Mode	Max Tune-up Power (dBm)	ERP/EIRP Limit (dBm)	Max Antenna Gain (dBd)	Max Antenna Gain (dBi)
WCDMA Band II	23.00	33.00	/	10.00
WCDMA Band IV	23.00	30.00	/	7.00
WCDMA Band V	24.00	38.45	14.45	16.60
FDD (Band 2)	22.00	33.00	/	11.00
FDD (Band 4)	23.00	30.00	/	7.00
FDD (Band 5)	23.00	38.45	15.45	17.60
FDD (Band 7)	23.00	33.00	/	10.00
FDD (Band 12)	25.00	34.77	9.77	11.92
FDD (Band 13)	23.00	34.77	11.77	13.92
FDD (Band 17)	25.00	34.77	9.77	11.92

Note: 0dBd=2.15dBi

Calculation of maximum antenna gain based on MPE Ratio

Mode	Frequency Range	Tune-up Conducted Power		Power Density Limit	Maximum Power Density	Evaluation Distance	Maximum Antenna Gain Allowed based on MPE		MPE ratio
	(MHz)	(dBm)	(mW)	(mW/cm ²)	(mW/cm ²)	(cm)	(numeric)	(dBi)	
WCDMA Band II	1850.0-1910.0	23.00	199.5262	1.00	0.9855	20	24.83	13.95	0.9855
WCDMA Band IV	1710.0-1755.0	23.00	199.5262	1.00	0.9855	20	24.83	13.95	0.9855
WCDMA Band V	824.0-849.0	24.00	251.1886	0.55	0.5416	20	10.84	10.35	0.9847
FDD (Band 2)	1850.0-1910.0	22.00	158.4893	1.00	0.9855	20	31.26	14.95	0.9855
FDD (Band 4)	1710.0-1755.0	23.00	199.5262	1.00	0.9855	20	24.83	13.95	0.9855
FDD (Band 5)	824.0-849.0	23.00	199.5262	0.55	0.5416	20	13.65	11.35	0.9847
FDD (Band 7)	2500.0-2570.0	23.00	199.5262	1.00	0.9855	20	24.83	13.95	0.9855
FDD (Band 12)	699.0-716.0	25.00	316.2278	0.47	0.4631	20	7.36	8.67	0.9853
FDD (Band 13)	777.0-787.0	23.00	199.5262	0.52	0.5125	20	12.91	11.11	0.9856
FDD (Band 17)	704.0-716.0	25.00	316.2278	0.47	0.4631	20	7.36	8.67	0.9853

Note: Wi-Fi/ BLE/ BT 3.0& WCDMA/FDD can transmit simultaneously; the worst condition is 802.11b of Wi-Fi & FDD (Band13), as below:

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.0126 + 0.9856 = 0.9982 < 1.0$$

Mode	Max Allow Antenna Gain (dBi)
WCDMA Band II/LTE Band 2	10.0
WCDMA Band IV/LTE Band 4	7.00
WCDMA Band V/LTE Band 5	10.35
LTE Band 7	10.00
LTE Band 12/LTE Band 17	8.67
LTE Band 13	11.11

Result: To meet RF exposure & ERP/ERIP, the maximum net gains of antennas allowed are 10dBi@ WCDMA Band II/LTE Band 2 , 7dBi@ WCDMA Band IV/LTE Band 4 , 10.35dBi@ WCDMA Band V/LTE Band 5 , 10.00dBi @LTE Band 7, 8.67dBi @ LTE Band 12/LTE Band 17, 11.11dBi @ LTE Band 13. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm. The transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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 use of a standard antenna jack or electrical connector is prohibited.

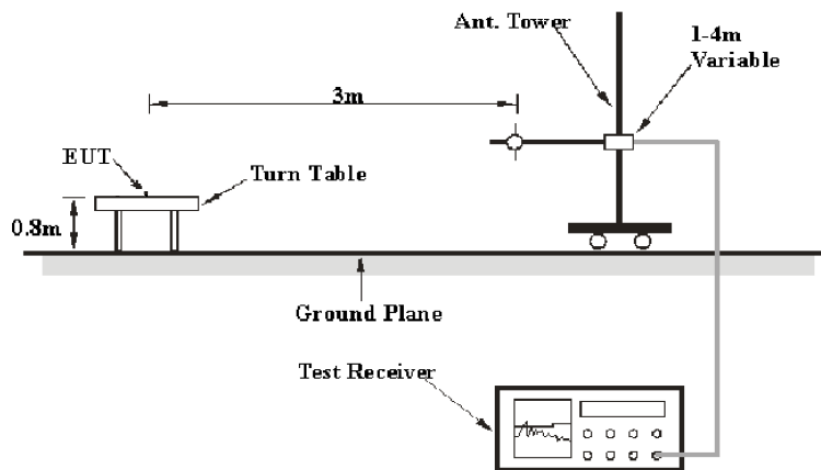
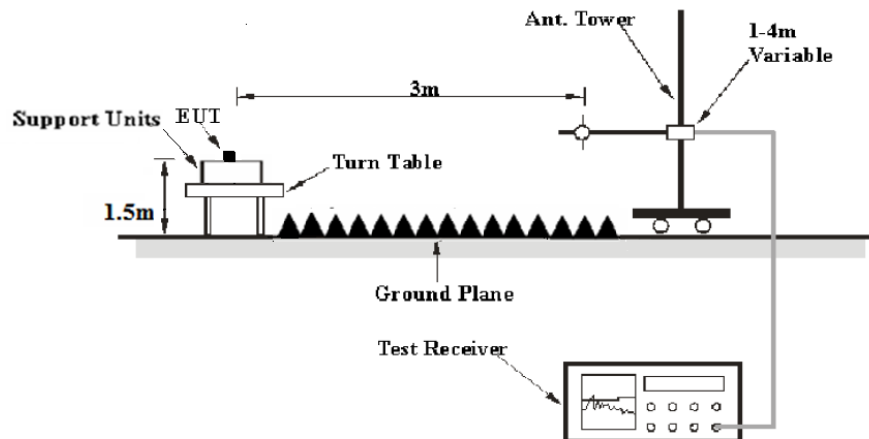
Antenna Connector Construction

The EUT has been tested with an Omni antenna for BT3.0 and the antenna gain is 0 dBi, which have a unique type of connector, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS**Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

EUT Setup**Below 1 GHz:****Above 1GHz:**

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	3 MHz	/	Ave.

Test Procedure

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

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and 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:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

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:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V/m)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data**Environmental Conditions**

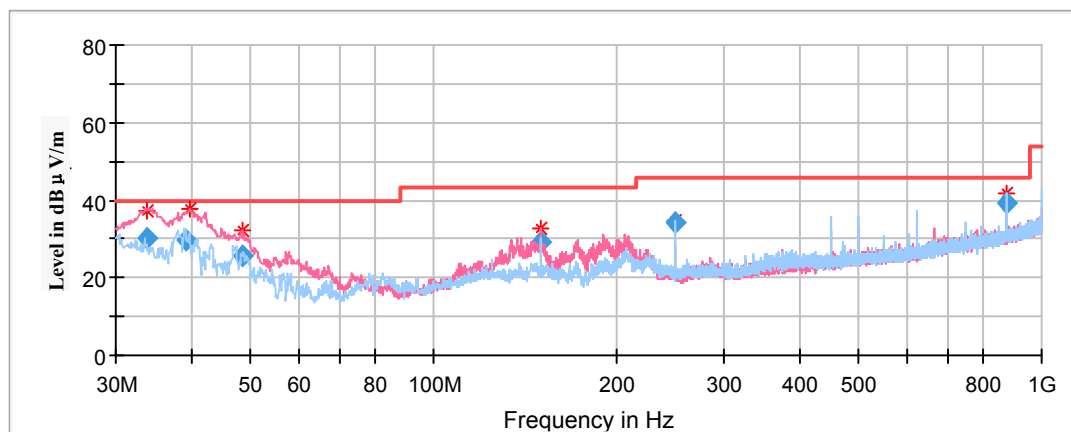
Temperature:	22.1~25.5 °C
Relative Humidity:	50~52 %
ATM Pressure:	101.1~101.3 kPa

The testing was performed by Jack Jiao from 2020-05-12 to 2020-05-14.

EUT operation mode: Transmitting

Spurious Emission Test:**30MHz-1GHz:**

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case middle channel of 8DPSK Mode in Z-axis of orientation was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)				
33.803650	30.17	100.0	V	359.0	-6.5	40.00	9.83
39.078150	29.50	100.0	V	342.0	-10.1	40.00	10.50
48.587150	25.58	100.0	V	19.0	-16.6	40.00	14.42
149.988000	29.41	100.0	V	208.0	-12.3	43.50	14.09
249.996700	33.97	100.0	H	35.0	-12.1	46.00	12.03
874.993700	39.41	200.0	H	173.0	-0.5	46.00	6.59

1GHz-18GHz:

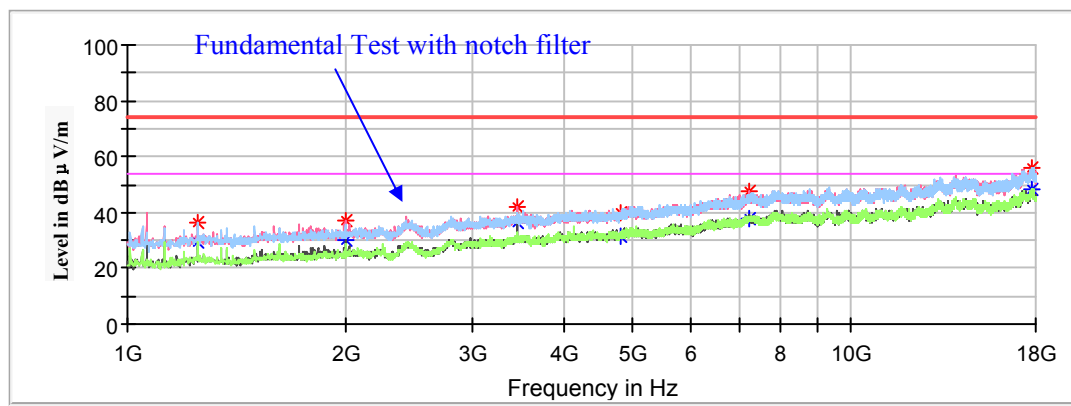
Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case 8DPSK Mode in Z-axis of orientation was recorded

Note:

1. This test was performed with the 2.4-2.5 GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2402MHz

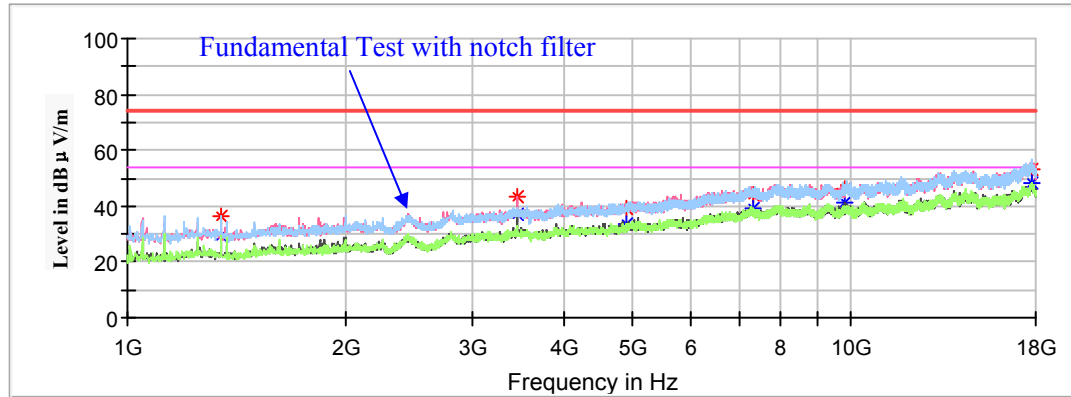
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1248.200000	---	29.22	200.0	H	340.0	-17.7	54.00	24.78
1248.200000	36.54	---	200.0	H	340.0	-17.7	74.00	37.46
1999.600000	---	29.78	200.0	V	83.0	-14.5	54.00	24.22
1999.600000	37.13	---	200.0	V	83.0	-14.5	74.00	36.87
3454.800000	---	36.43	150.0	V	234.0	-8.9	54.00	17.57
3454.800000	42.19	---	150.0	V	234.0	-8.9	74.00	31.81
4804.000000	---	31.50	200.0	V	341.0	-5.6	54.00	22.50
4804.000000	39.70	---	200.0	V	341.0	-5.6	74.00	34.30
7206.000000	---	37.77	150.0	V	280.0	0.5	54.00	16.23
7206.000000	47.70	---	150.0	V	280.0	0.5	74.00	26.30
17775.600000	---	48.45	150.0	V	175.0	8.8	54.00	5.55
17775.600000	55.66	---	150.0	V	175.0	8.8	74.00	18.34

Middle Channel: 2441MHz

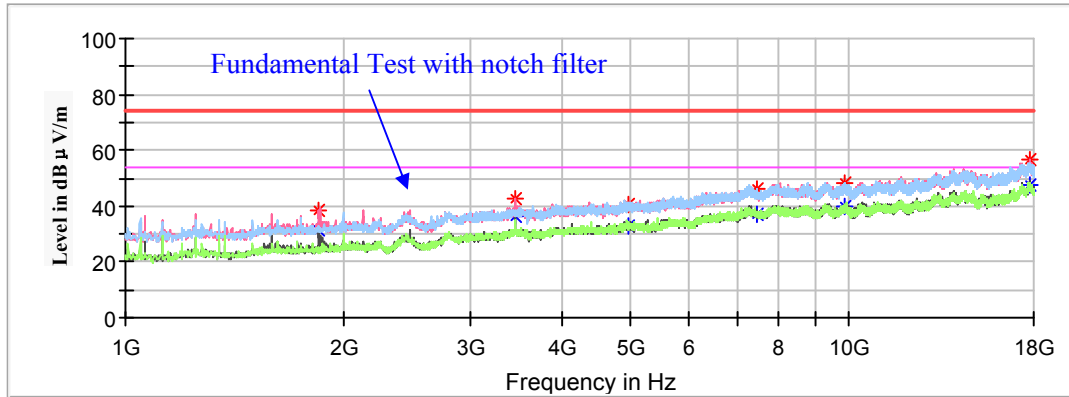
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1348.500000	---	29.54	150.0	H	335.0	-17.2	54.00	24.46
1348.500000	36.18	---	150.0	H	335.0	-17.2	74.00	37.82
3454.800000	---	37.04	200.0	V	235.0	-8.9	54.00	16.96
3454.800000	43.01	---	200.0	V	235.0	-8.9	74.00	30.99
4882.000000	---	33.86	200.0	H	175.0	-5.4	54.00	20.14
4882.000000	39.23	---	200.0	H	175.0	-5.4	74.00	34.77
7323.000000	---	39.48	150.0	H	256.0	0.6	54.00	14.52
7323.000000	44.27	---	150.0	H	256.0	0.6	74.00	29.73
9826.400000	---	41.54	200.0	V	265.0	2.0	54.00	12.46
9826.400000	45.81	---	200.0	V	265.0	2.0	74.00	28.19
17751.800000	---	48.00	150.0	H	335.0	8.8	54.00	6.00
17751.800000	53.38	---	150.0	H	335.0	8.8	74.00	20.62

High Channel: 2480MHz

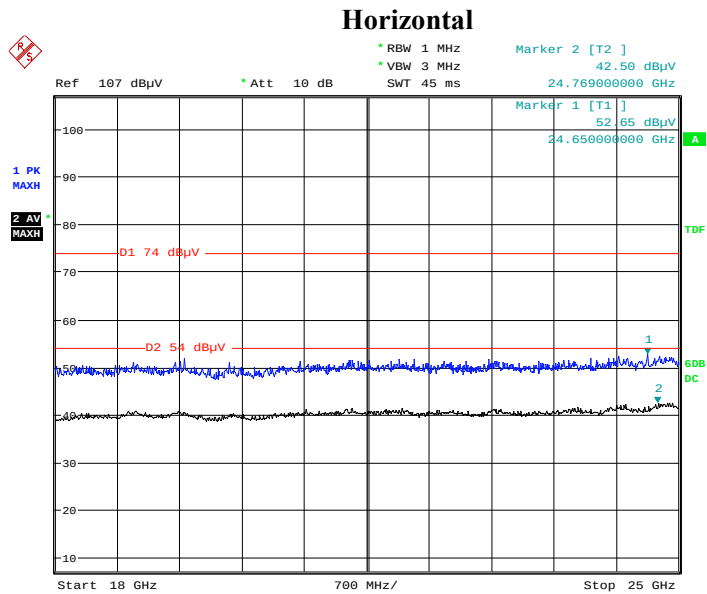
Full Spectrum



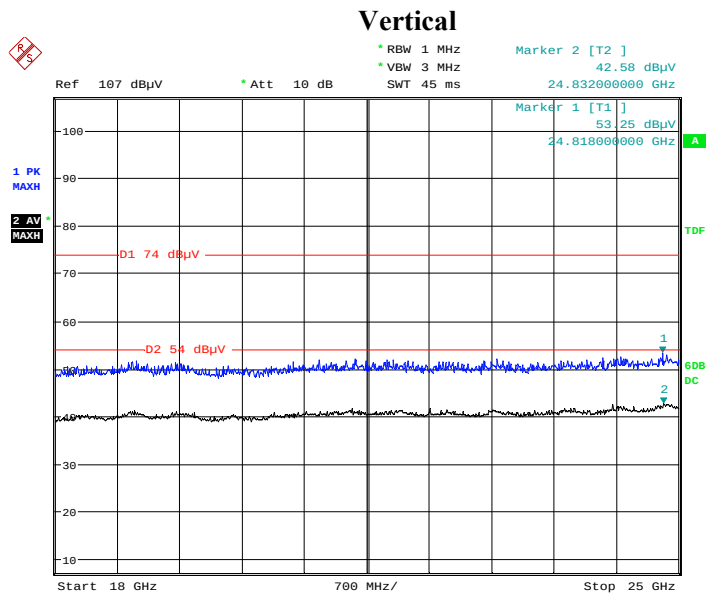
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1850.000000	---	31.12	200.0	V	179.0	-15.0	54.00	22.88
1850.000000	38.65	---	200.0	V	179.0	-15.0	74.00	35.35
3454.800000	---	36.65	150.0	V	250.0	-8.9	54.00	17.35
3454.800000	42.40	---	150.0	V	250.0	-8.9	74.00	31.60
4960.000000	---	32.94	150.0	V	10.0	-5.3	54.00	21.06
4960.000000	40.51	---	150.0	V	10.0	-5.3	74.00	33.49
7440.000000	---	37.03	150.0	V	250.0	0.9	54.00	16.97
7440.000000	46.01	---	150.0	V	250.0	0.9	74.00	27.99
9833.200000	---	39.95	150.0	H	273.0	2.0	54.00	14.05
9833.200000	48.40	---	150.0	H	273.0	2.0	74.00	25.60
17780.700000	---	47.47	150.0	V	10.0	8.8	54.00	6.53
17780.700000	56.52	---	150.0	V	10.0	8.8	74.00	17.48

18GHz-25GHz:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case middle channel of 8DPSK Mode in Z-axis of orientation was recorded



Date: 12.MAY.2020 23:59:40



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Restricted Bands Emissions:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X,Y and Z axes of orientation, the worst case 8DPSK Mode in Z-axis of orientation was recorded

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dB μ V /m) = Corrected Factor (dB/m) + Reading (dB μ V)

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V /m)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2402MHz								
2390.00	---	38.52	150.0	H	97.0	6.0	54.00	15.48
2390.00	49.12	---	150.0	H	97.0	6.0	74.00	24.88
High Channel: 2480MHz								
2483.50	---	38.87	200.0	V	155.0	6.3	54.00	15.13
2483.50	48.88	---	200.0	V	155.0	6.3	74.00	25.12

***** END OF REPORT *****