



RF TEST REPORT

Product Name: Smart Dash Cam

Model Number: V13, V13-1, V13-2, V13-3, V13-4, V13-5, V13-6, V13-7,
V13-8, V13-9

FCC ID: 2BF2B-V13

Issued For : Shenzhen Future Automotive Technology Co., Ltd.

Building D2 301, Wanlida Industrial Park, Fuyuan No.1 Road
49th, Heping community, Fuhai Street, Baoan District
ShenZhen City Guangdong Province, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT26H253RF02

Sample Received Date: Aug. 27, 2026

Date of Test: Aug. 27, 2026 ~ Sep. 09, 2026

Date of Issue: Sep. 09, 2026

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TEST REPORT CERTIFICATION

Applicant: Shenzhen Future Automotive Technology Co., Ltd.
Building D2 301, Wanlida Industrial Park, Fuyuan No.1 Road 49th,
Address: Heping community, Fuhai Street, Baoan District ShenZhen City
Guangdong Province, China

Manufacturer: Shenzhen Future Automotive Technology Co., Ltd.
Building D2 301, Wanlida Industrial Park, Fuyuan No.1 Road 49th,
Address: Heping community, Fuhai Street, Baoan District ShenZhen City
Guangdong Province, China

Product Name: Smart Dash Cam

Trademark: LOOCI

Model Number: V13, V13-1, V13-2, V13-3, V13-4, V13-5, V13-6, V13-7, V13-8, V13-9

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS

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Revision History

Rev.	Issue Date	Revisions
00	Sep. 09, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
9	All Emissions, Radiated (18GHz-40GHz)	$\pm 4.31\text{dB}$
10	Temperature	$\pm 0.5^{\circ}\text{C}$
11	Humidity	$\pm 2\%$
12	Duty Cycle	$\pm 2.3\%$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Smart Dash Cam	
Test Model Number:	V13	
Series Number:	V13-1, V13-2, V13-3, V13-4, V13-5, V13-6, V13-7, V13-8, V13-9	
Model Difference:	Different in appearance, same in function.	
Product Description:	Operation Frequency:	802.11b/g/n(20MHz): 2412~2462MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Number of Channel:	802.11b/g/n(20MHz): 11CH
	Antenna Designation:	Chip
	Antenna Gain(dBi):	2.67dBi
Channel List:	Please refer to the Note 3.	
Rating:	Input: DC 12-24V 2A Output: DC 5V 3A	
Battery:	Capacity: 5.8mAh Rated Voltage: 3V	
Hardware Version:	N/A	
Software Version:	N/A	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Operation Frequency of channel	
802.11b/g/n(20MHz)	
Channel	Frequency
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n(20MHz)	
Channel	Freq.(MHz)
01	2412
06	2437
11	2462



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 2.4G WIFI	
CMD Command	Mode Or Modulation type	Power setting
	b	Default
	g	Default
	n20	Default



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Car charger cable	N/A	N/A	N/A	3.2m
Camera	N/A	N/A	N/A	0.5m
wiring harness	N/A	N/A	N/A	5.2m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
DC source	Jiuyuan	QJ6010E	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” means “with core”; “NO” means “without core”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2026-03-02	2027-03-01
Active loop Antenna	ETS	6502	00049544	2025-03-11	2028-03-10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2026-03-03	2027-03-02
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024-05-17	2027-05-16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025-03-10	2028-03-09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023-10-23	2026-10-22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2026-03-02	2027-03-01
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2026-03-02	2027-03-01
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2025-10-20	2026-10-19
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600 -NMNM-8M	N.A	2026-03-03	2027-03-02
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B -NMSM-1M9	N.A	2026-03-03	2027-03-02
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241 -05000KMSKMS	N.A	2026-03-03	2027-03-02
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2026-08-07	2027-08-06
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EMC-I_V1.5.0.16_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9020A	MY50530994	2026-03-03	2027-03-02
Power Sensor	R&S	NRP8S	104963	2026-03-02	2027-03-01
RF Automatic Test system	TST	TST PASS	293	2026-07-14	2027-07-13
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2026-03-03	2027-03-02
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2026-08-07	2027-08-06
Attenuator	eastsheep	90db	N.A	2026-03-02	2027-03-01
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
DC source	Keysight	E3634A	MY58036468	2026-03-05	2027-03-04
Testing Software	TST Pass_2.0.2				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

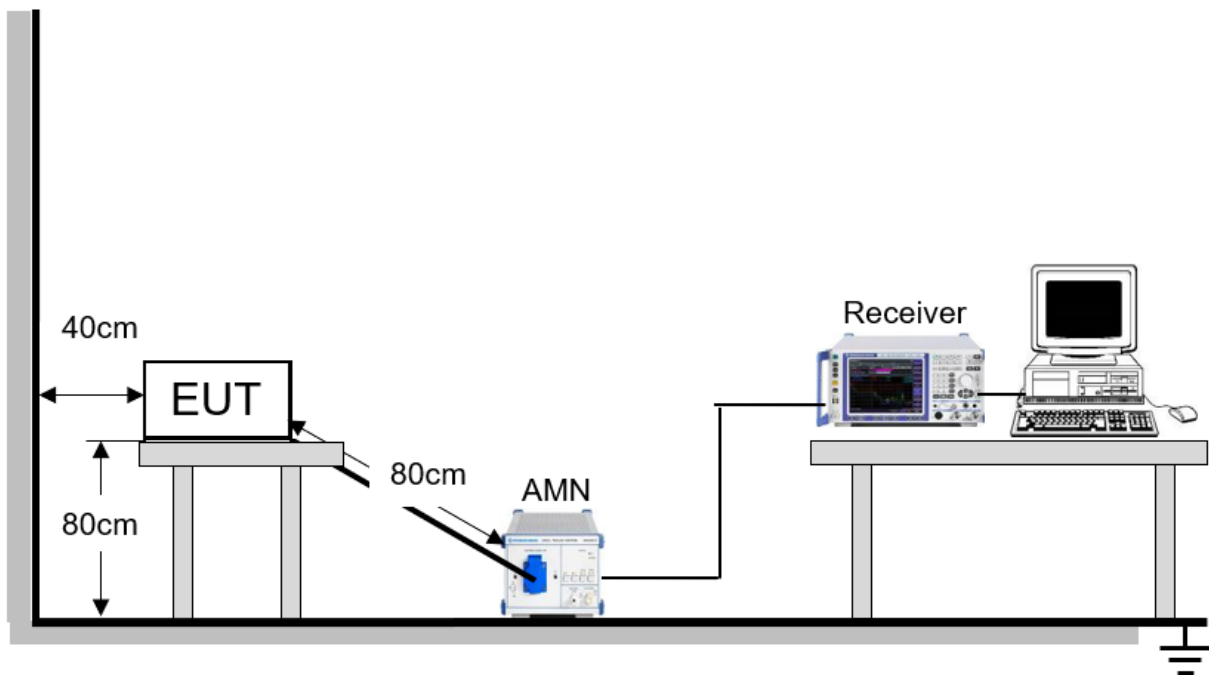
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.5 TEST RESULT

Note: N/A. EUT DC power supply.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

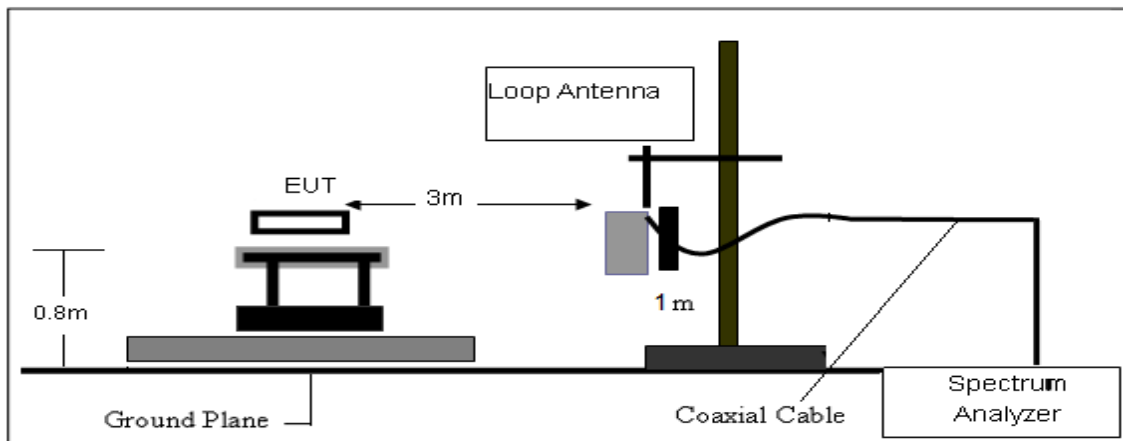
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

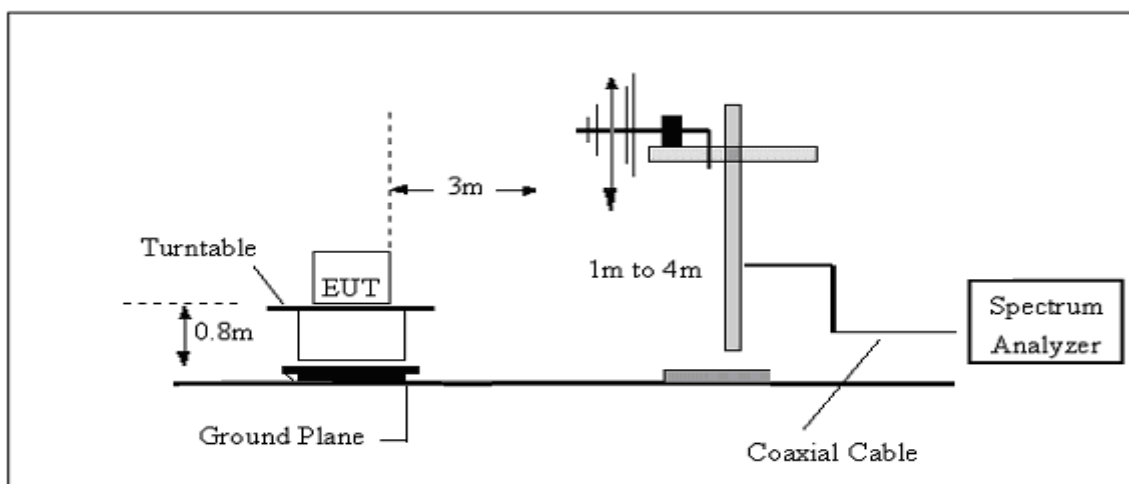
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

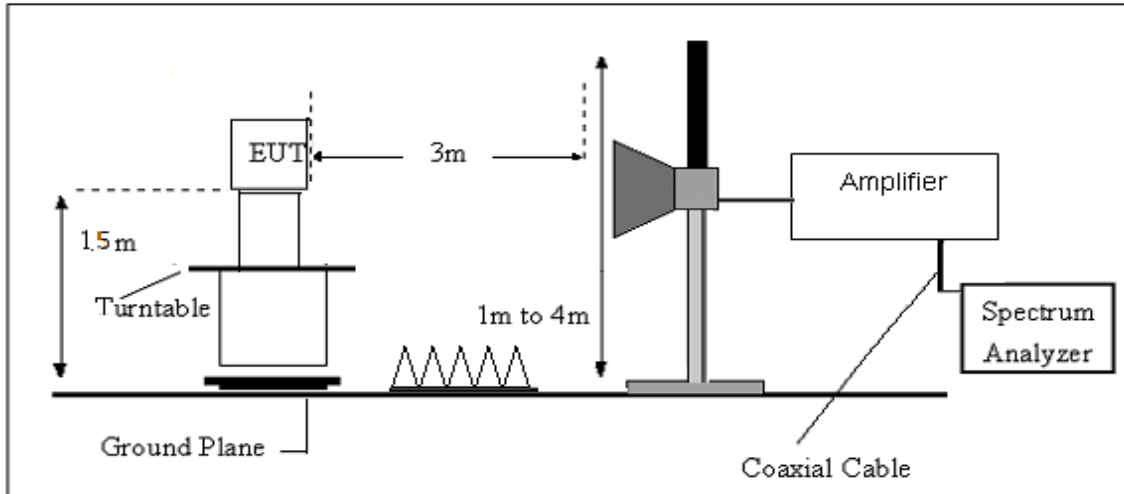
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULT

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



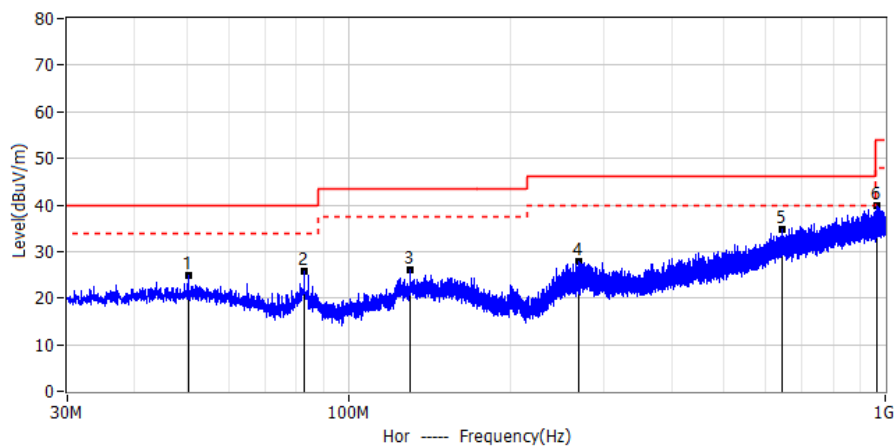
Results of Radiated Emissions (30MHz~1000MHz)

Note:1. All mode has been tested, only shown the worst case data.

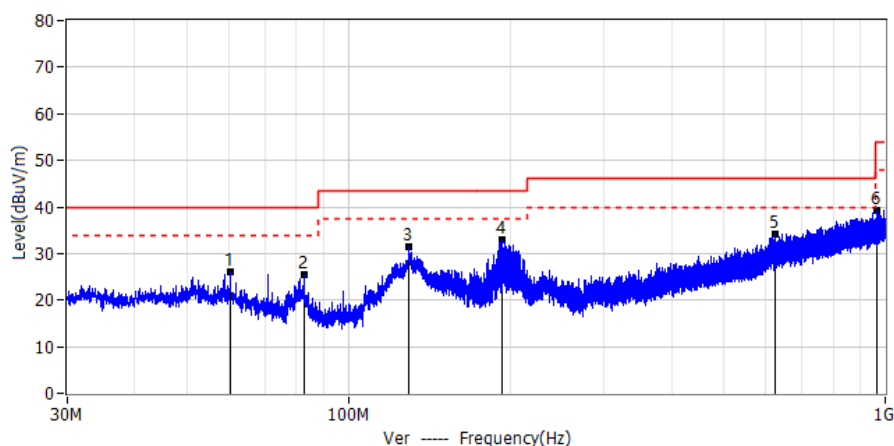
2. Level = Reading + Factor

Margin = Level – Limit

Project: LGT26H253	Test Engineer: zhangchengxiang
EUT: Smart Dash Cam	Temperature: 24.9°C
M/N: V13	Humidity: 57%RH
Test Voltage: DC 12V	Test Date: 2026-08-29
Test Mode: TX 802.11b 2412	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	50.345	3.97	20.76	24.73	40.00	-15.27	PK	Hor
2*	82.877	9.18	16.67	25.85	40.00	-14.15	PK	Hor
3*	130.233	5.10	20.90	26.00	43.50	-17.50	PK	Hor
4*	268.371	7.25	20.57	27.82	46.00	-18.18	PK	Hor
5*	641.896	4.39	30.43	34.82	46.00	-11.18	PK	Hor
6*	966.075	4.88	34.84	39.72	54.00	-14.28	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	60.294	6.49	19.69	26.18	40.00	-13.82	PK	Ver
2*	82.927	8.78	16.66	25.44	40.00	-14.56	PK	Ver
3*	129.935	10.53	20.87	31.40	43.50	-12.10	PK	Ver
4*	192.910	14.21	18.71	32.92	43.50	-10.58	PK	Ver
5*	624.585	4.31	29.99	34.30	46.00	-11.70	PK	Ver
6*	963.339	4.60	34.78	39.38	54.00	-14.62	PK	Ver



Results of Radiated Emissions (Above 1000MHz)

Note:1. All mode has been tested, only shown the worst case data.

Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11b-2412 MHz)							
3264.85	56.46	-8.45	48.01	74.00	-25.99	PK	Vertical
3264.85	45.58	-8.45	37.13	54.00	-16.87	AV	Vertical
3264.57	56.18	-8.45	47.73	74.00	-26.27	PK	Horizontal
3264.57	45.14	-8.45	36.69	54.00	-17.31	AV	Horizontal
4824.54	54.24	-6.09	48.15	74.00	-25.85	PK	Vertical
4824.54	44.24	-6.09	38.15	54.00	-15.85	AV	Vertical
4824.60	54.40	-6.09	48.31	74.00	-25.69	PK	Horizontal
4824.60	44.47	-6.09	38.38	54.00	-15.62	AV	Horizontal
5359.86	57.48	-6.68	50.80	74.00	-23.20	PK	Vertical
5359.86	47.55	-6.68	40.87	54.00	-13.13	AV	Vertical
5359.83	56.80	-6.68	50.12	74.00	-23.88	PK	Horizontal
5359.83	47.37	-6.68	40.69	54.00	-13.31	AV	Horizontal
7235.87	60.49	-8.13	52.36	74.00	-21.64	PK	Vertical
7235.87	49.79	-8.13	41.66	54.00	-12.34	AV	Vertical
7235.71	59.53	-8.13	51.40	74.00	-22.60	PK	Horizontal
7235.71	50.27	-8.13	42.14	54.00	-11.86	AV	Horizontal
Middle Channel (802.11b-2437 MHz)							
3264.61	56.49	-8.45	48.04	74.00	-25.96	PK	Vertical
3264.61	45.39	-8.45	36.94	54.00	-17.06	AV	Vertical
3264.82	55.34	-8.45	46.89	74.00	-27.11	PK	Horizontal
3264.82	46.42	-8.45	37.97	54.00	-16.03	AV	Horizontal
4874.44	54.78	-6.09	48.69	74.00	-25.31	PK	Vertical
4874.44	44.43	-6.09	38.34	54.00	-15.66	AV	Vertical
4874.33	55.11	-6.09	49.02	74.00	-24.98	PK	Horizontal
4874.33	45.25	-6.09	39.16	54.00	-14.84	AV	Horizontal
5359.76	56.61	-6.68	49.93	74.00	-24.07	PK	Vertical
5359.76	46.94	-6.68	40.26	54.00	-13.74	AV	Vertical
5359.75	57.69	-6.68	51.01	74.00	-22.99	PK	Horizontal
5359.75	47.44	-6.68	40.76	54.00	-13.24	AV	Horizontal
7310.94	60.98	-8.13	52.85	74.00	-21.15	PK	Vertical
7310.94	50.88	-8.13	42.75	54.00	-11.25	AV	Vertical
7310.76	60.61	-8.13	52.48	74.00	-21.52	PK	Horizontal
7310.76	50.74	-8.13	42.61	54.00	-11.39	AV	Horizontal
High Channel (802.11b-2462 MHz)							



3264.82	55.97	-8.45	47.52	74.00	-26.48	PK	Vertical
3264.82	45.52	-8.45	37.07	54.00	-16.93	AV	Vertical
3264.66	55.27	-8.45	46.82	74.00	-27.18	PK	Horizontal
3264.66	46.63	-8.45	38.18	54.00	-15.82	AV	Horizontal
4924.52	55.08	-6.09	48.99	74.00	-25.01	PK	Vertical
4924.52	45.40	-6.09	39.31	54.00	-14.69	AV	Vertical
4924.51	54.54	-6.09	48.45	74.00	-25.55	PK	Horizontal
4924.51	44.93	-6.09	38.84	54.00	-15.16	AV	Horizontal
5359.79	57.35	-6.68	50.67	74.00	-23.33	PK	Vertical
5359.79	46.97	-6.68	40.29	54.00	-13.71	AV	Vertical
5359.66	57.70	-6.68	51.02	74.00	-22.98	PK	Horizontal
5359.66	47.04	-6.68	40.36	54.00	-13.64	AV	Horizontal
7385.81	60.48	-8.13	52.35	74.00	-21.65	PK	Vertical
7385.81	50.17	-8.13	42.04	54.00	-11.96	AV	Vertical
7385.69	60.95	-8.13	52.82	74.00	-21.18	PK	Horizontal
7385.69	50.83	-8.13	42.70	54.00	-11.30	AV	Horizontal

Remark:

In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



3.2.7 TEST RESULTS(Band edge Requirements)

Note:1. All mode has been tested, only shown the worst case data.

Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
802.11b							
2390.00	12.29	34.10	46.39	74.00	-27.61	PK	Vertical
2390.00	1.16	34.10	35.26	54.00	-18.74	AV	Vertical
2400.00	13.39	34.11	47.50	74.00	-26.50	PK	Vertical
2400.00	2.81	34.11	36.92	54.00	-17.08	AV	Vertical
2390.00	13.35	34.10	47.45	74.00	-26.55	PK	Horizontal
2390.00	2.14	34.10	36.24	54.00	-17.76	AV	Horizontal
2400.00	12.60	34.11	46.71	74.00	-27.29	PK	Horizontal
2400.00	1.97	34.11	36.08	54.00	-17.92	AV	Horizontal
2483.50	14.21	34.44	48.65	74.00	-25.35	PK	Vertical
2483.50	3.14	34.44	37.58	54.00	-16.42	AV	Vertical
2500.00	15.08	34.46	49.54	74.00	-24.46	PK	Vertical
2500.00	2.47	34.46	36.93	54.00	-17.07	AV	Vertical
2483.50	14.62	34.44	49.06	74.00	-24.94	PK	Horizontal
2483.50	2.94	34.44	37.38	54.00	-16.62	AV	Horizontal
2500.00	15.21	34.46	49.67	74.00	-24.33	PK	Horizontal
2500.00	3.96	34.46	38.42	54.00	-15.58	AV	Horizontal
802.11g							
2390.00	12.36	34.10	46.46	74.00	-27.54	PK	Vertical
2390.00	2.34	34.10	36.44	54.00	-17.56	AV	Vertical
2400.00	14.04	34.11	48.15	74.00	-25.85	PK	Vertical
2400.00	1.57	34.11	35.68	54.00	-18.32	AV	Vertical
2390.00	12.74	34.10	46.84	74.00	-27.16	PK	Horizontal
2390.00	2.33	34.10	36.43	54.00	-17.57	AV	Horizontal
2400.00	13.15	34.11	47.26	74.00	-26.74	PK	Horizontal
2400.00	2.13	34.11	36.24	54.00	-17.76	AV	Horizontal
2483.50	15.03	34.44	49.47	74.00	-24.53	PK	Vertical
2483.50	3.05	34.44	37.49	54.00	-16.51	AV	Vertical
2500.00	15.59	34.46	50.05	74.00	-23.95	PK	Vertical
2500.00	3.46	34.46	37.92	54.00	-16.08	AV	Vertical
2483.50	13.90	34.44	48.34	74.00	-25.66	PK	Horizontal
2483.50	1.94	34.44	36.38	54.00	-17.62	AV	Horizontal
2500.00	15.01	34.46	49.47	74.00	-24.53	PK	Horizontal
2500.00	2.61	34.46	37.07	54.00	-16.93	AV	Horizontal



802.11n20							
2390.00	12.60	34.10	46.70	74.00	-27.30	PK	Vertical
2390.00	1.87	34.10	35.97	54.00	-18.03	AV	Vertical
2400.00	14.13	34.11	48.24	74.00	-25.76	PK	Vertical
2400.00	1.57	34.11	35.68	54.00	-18.32	AV	Vertical
2390.00	12.72	34.10	46.82	74.00	-27.18	PK	Horizontal
2390.00	1.51	34.10	35.61	54.00	-18.39	AV	Horizontal
2400.00	13.03	34.11	47.14	74.00	-26.86	PK	Horizontal
2400.00	1.69	34.11	35.80	54.00	-18.20	AV	Horizontal
2483.50	14.18	34.44	48.62	74.00	-25.38	PK	Vertical
2483.50	3.04	34.44	37.48	54.00	-16.52	AV	Vertical
2500.00	15.94	34.46	50.40	74.00	-23.60	PK	Vertical
2500.00	2.90	34.46	37.36	54.00	-16.64	AV	Vertical
2483.50	15.21	34.44	49.65	74.00	-24.35	PK	Horizontal
2483.50	2.46	34.44	36.90	54.00	-17.10	AV	Horizontal
2500.00	15.91	34.46	50.37	74.00	-23.63	PK	Horizontal
2500.00	2.68	34.46	37.14	54.00	-16.86	AV	Horizontal



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

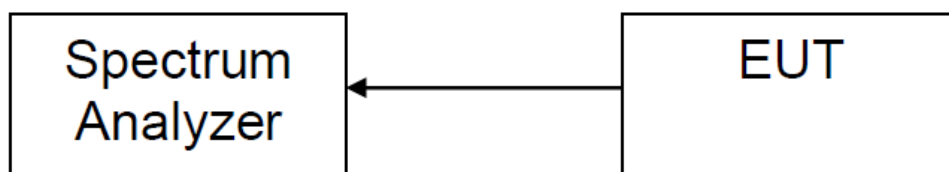
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.

Note: Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.



5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 KHz)	2400-2483.5	PASS

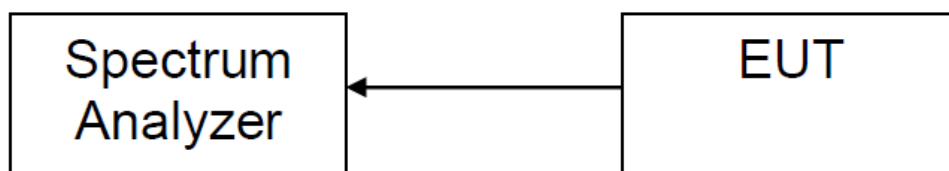
5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

For the measurement records, refer to the appendix I.



6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

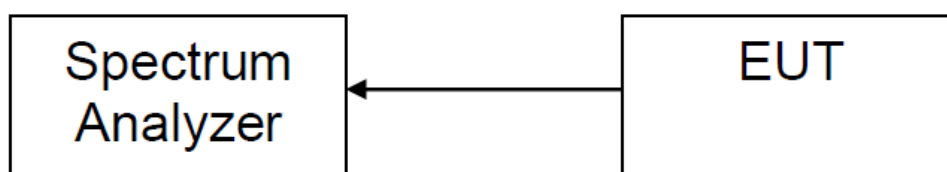
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: 1% to 5% of the OBW but not less than 100 kHz For 99% Bandwidth: 1% to 5% of the OBW
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 99% Bandwidth: $\geq 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB and 99% relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

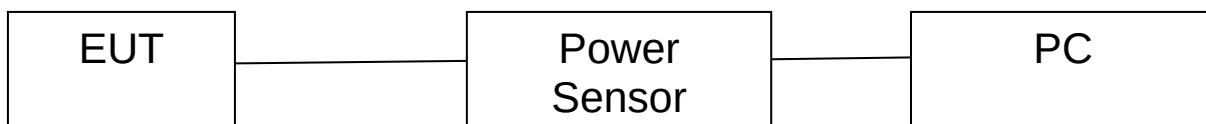
PKPM1 Peak power sensor method:

The maximum peak conducted output power may be measured using a broadband peak RF power sensor. The power sensor shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS

For the measurement records, refer to the appendix I.



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, 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.

8.2 EUT ANTENNA

The EUT antenna is Chip Antenna. It comply with the standard requirement.



APPENDIX I - TEST RESULTS

1. Duty Cycle 1.1 Test Result 1.1.1 Ant1

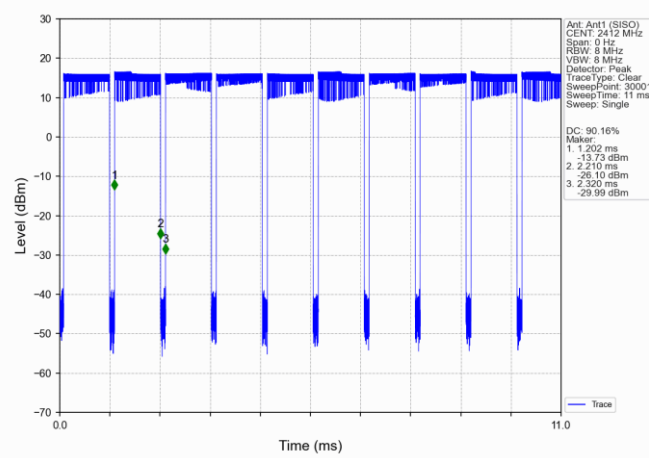
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.008	1.118	90.16	0.45	0.12
		2437	1.009	1.118	90.25	0.45	0.09
		2462	1.009	1.118	90.25	0.45	0.09
802.11g	SISO	2412	0.618	0.682	90.62	0.43	0.16
		2437	0.618	0.682	90.62	0.43	0.12
		2462	0.618	0.682	90.62	0.43	0.16
802.11n (HT20)	SISO	2412	0.613	0.679	90.28	0.44	0.16
		2437	0.614	0.679	90.43	0.44	0.28
		2462	0.614	0.679	90.43	0.44	0.25



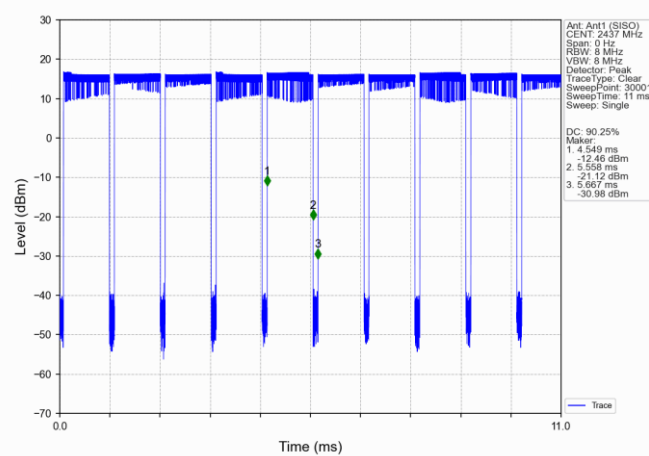
1.2 Test Graph

1.2.1 Ant1

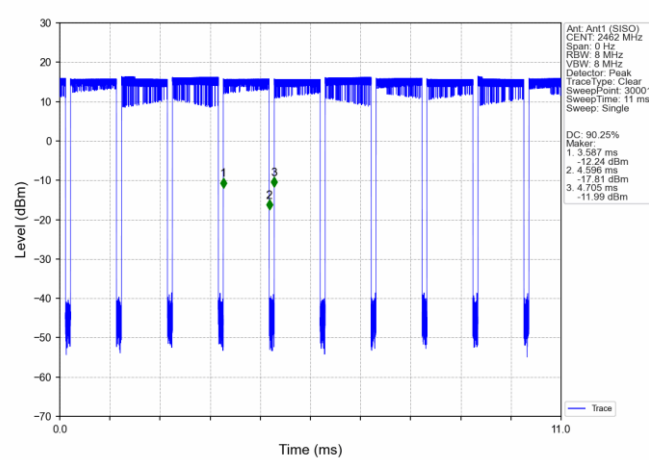
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

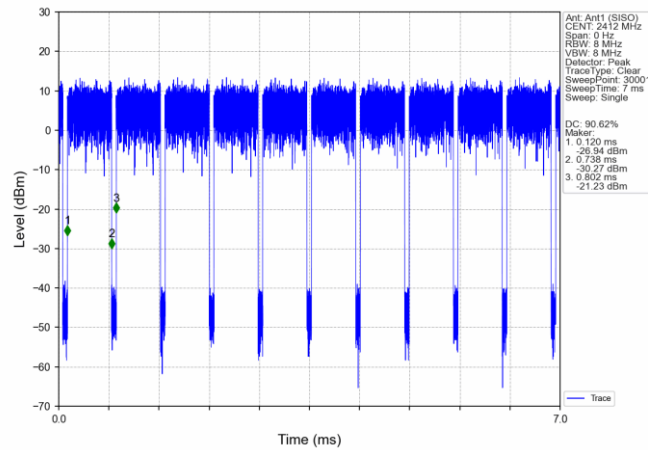


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

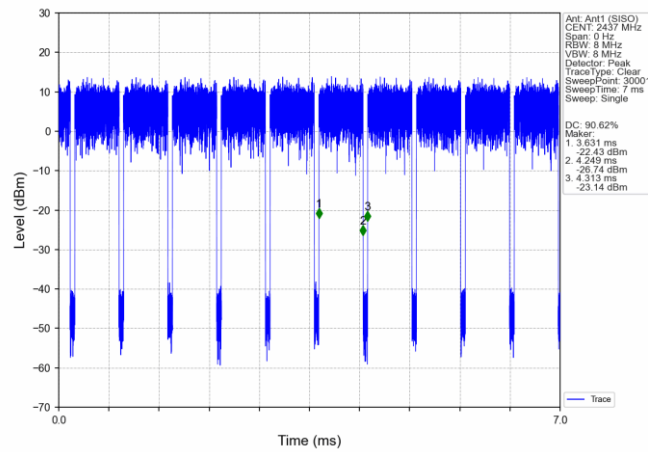




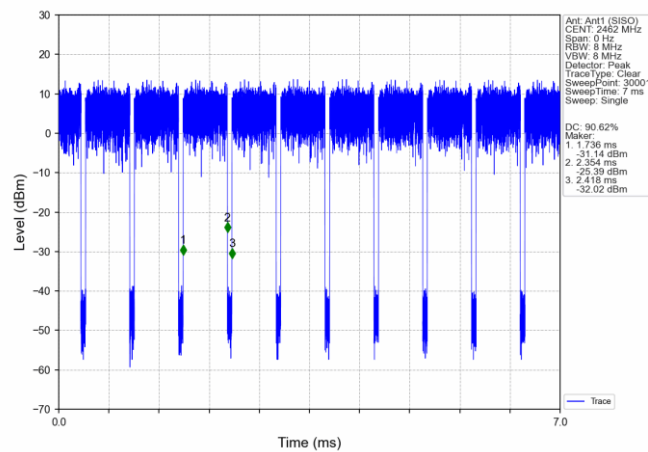
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

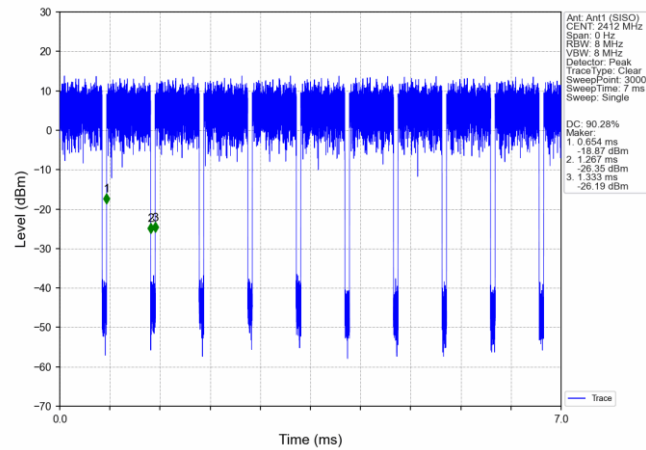


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

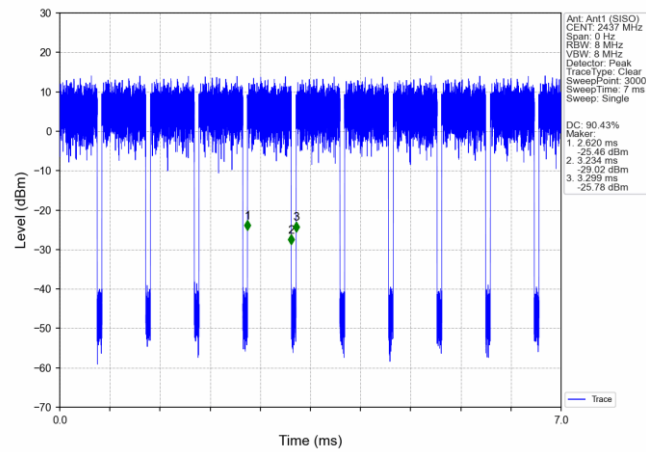




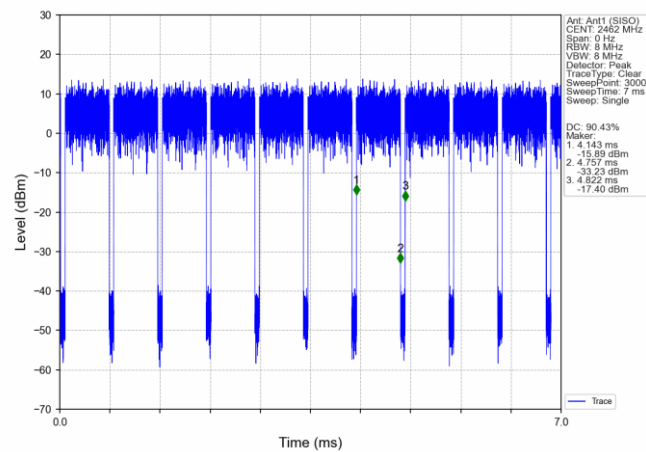
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.050	/	Pass
		2437	1	13.014	/	Pass
		2462	1	13.057	/	Pass
802.11g	SISO	2412	1	17.222	/	Pass
		2437	1	17.176	/	Pass
		2462	1	17.144	/	Pass
802.11n (HT20)	SISO	2412	1	18.133	/	Pass
		2437	1	18.089	/	Pass
		2462	1	18.100	/	Pass

2.1.2 6dB BW

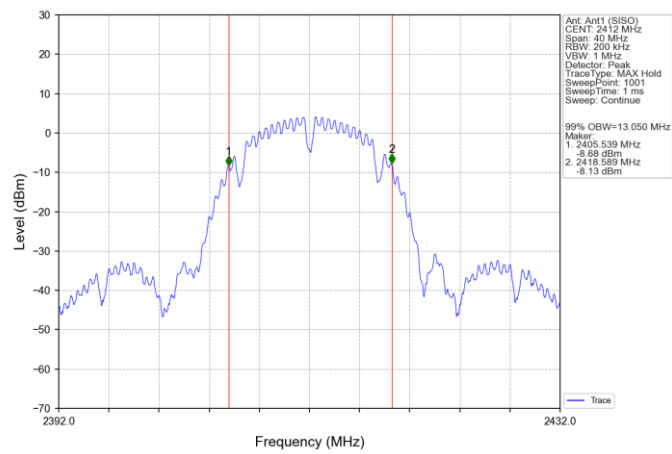
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.647	≥ 0.5	Pass
		2437	1	9.653	≥ 0.5	Pass
		2462	1	9.645	≥ 0.5	Pass
802.11g	SISO	2412	1	16.581	≥ 0.5	Pass
		2437	1	16.589	≥ 0.5	Pass
		2462	1	16.601	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.702	≥ 0.5	Pass
		2437	1	17.697	≥ 0.5	Pass
		2462	1	17.729	≥ 0.5	Pass



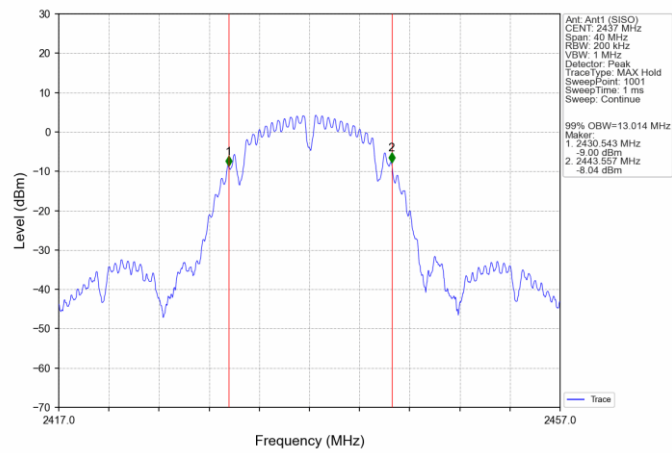
2.2 Test Graph

2.2.1 OBW

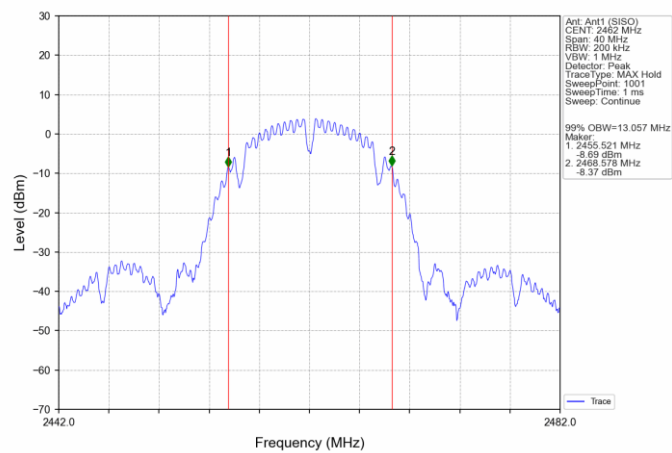
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

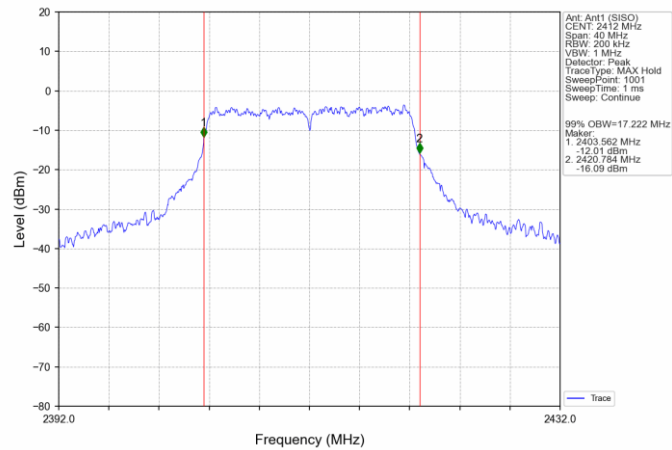


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

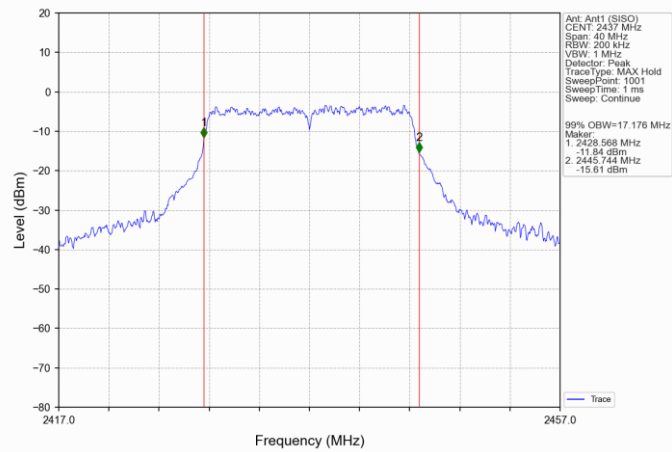




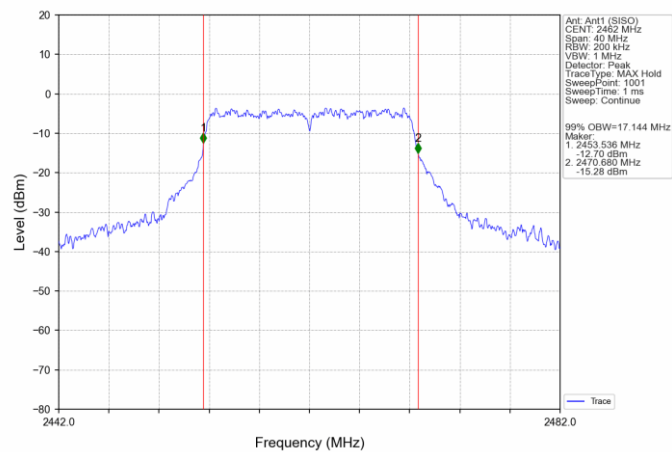
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

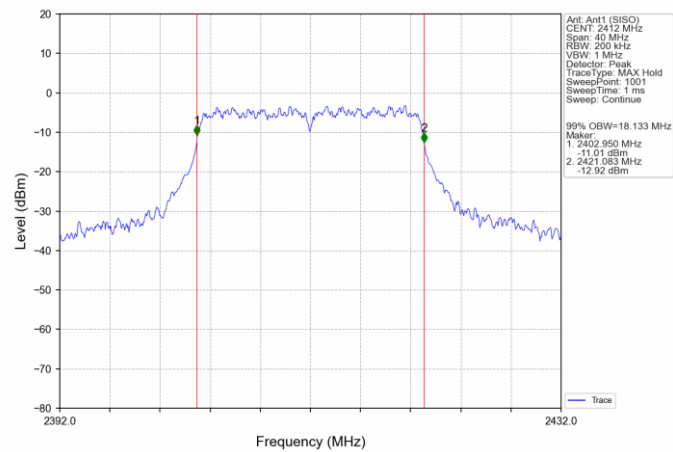


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

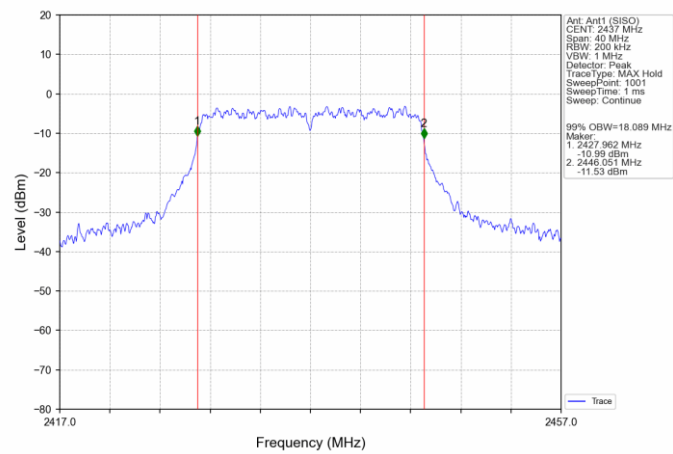




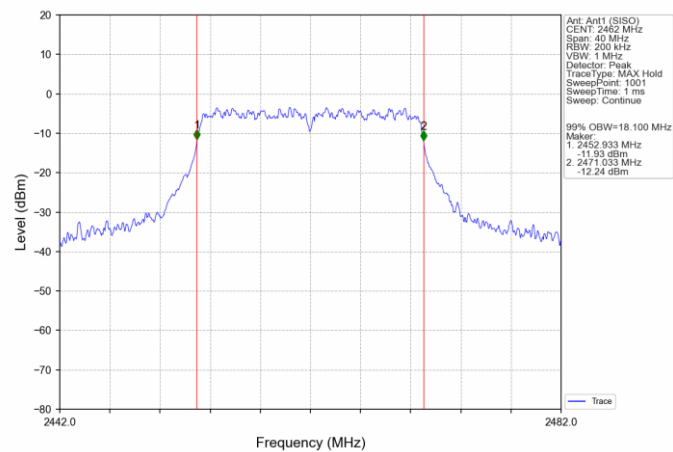
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



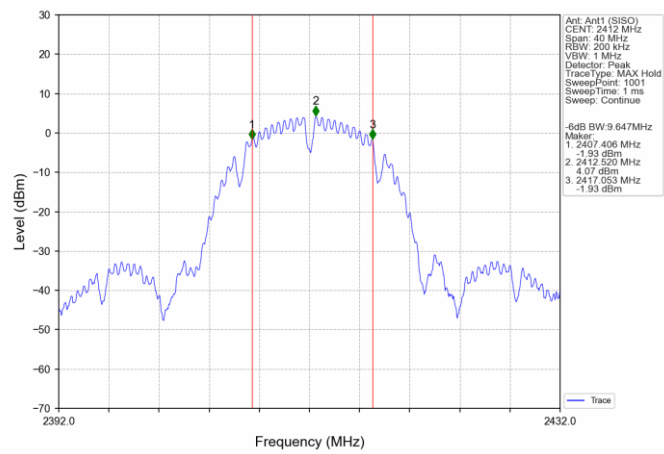
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



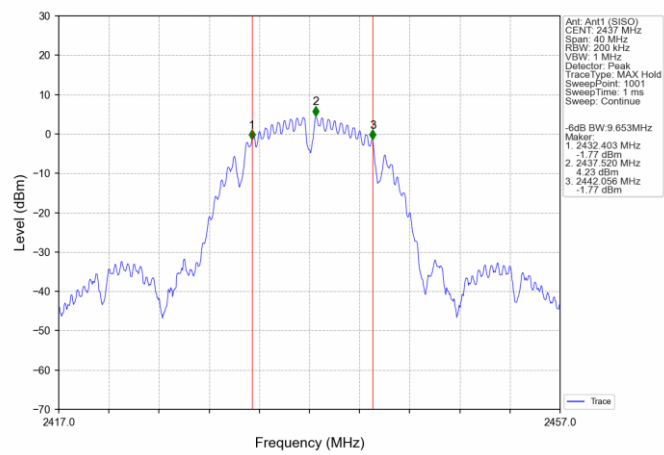


2.2.2 6dB BW

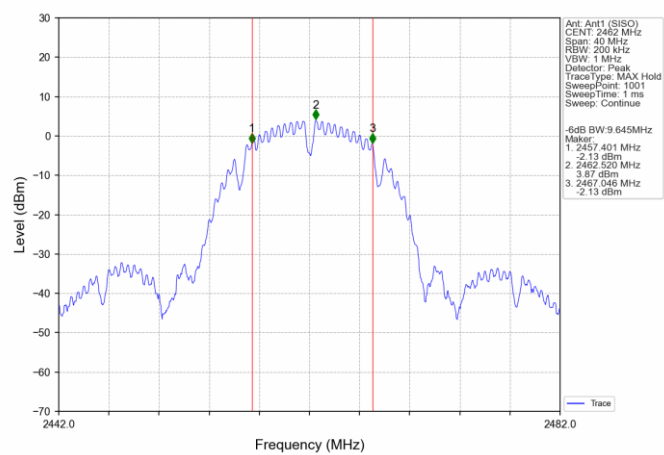
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

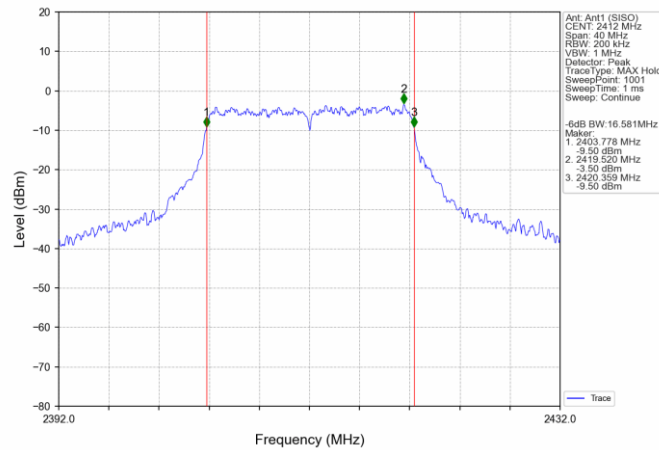


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

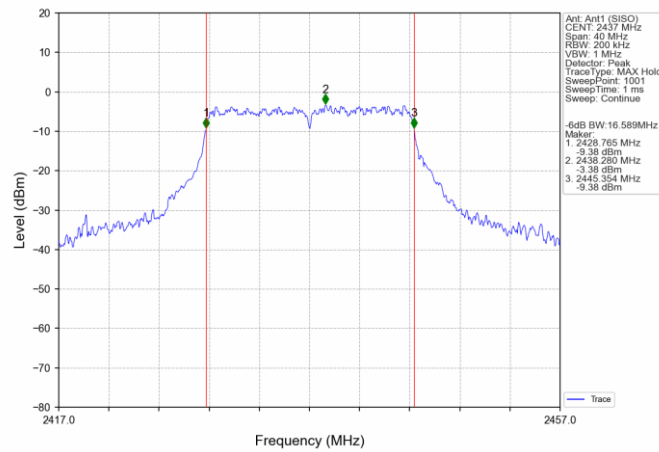




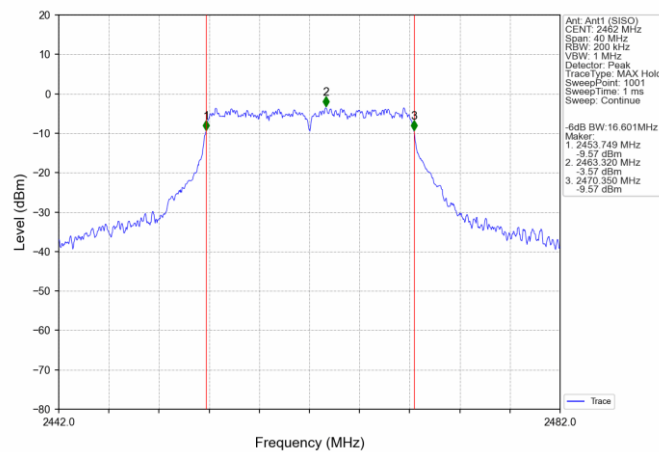
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

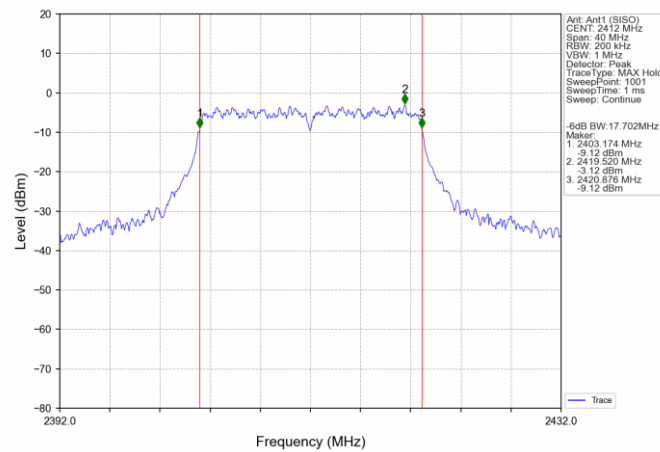


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

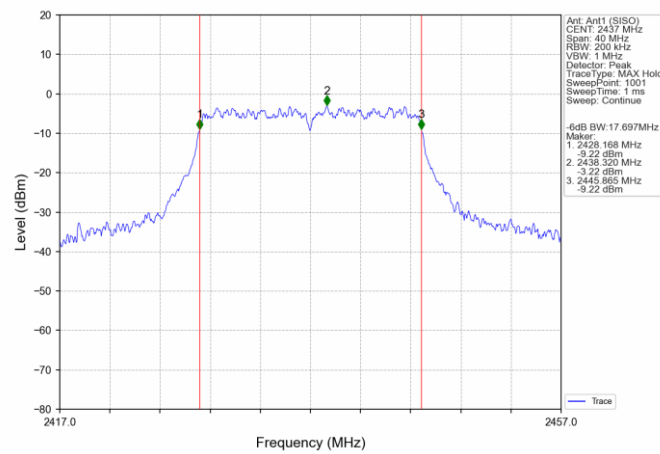




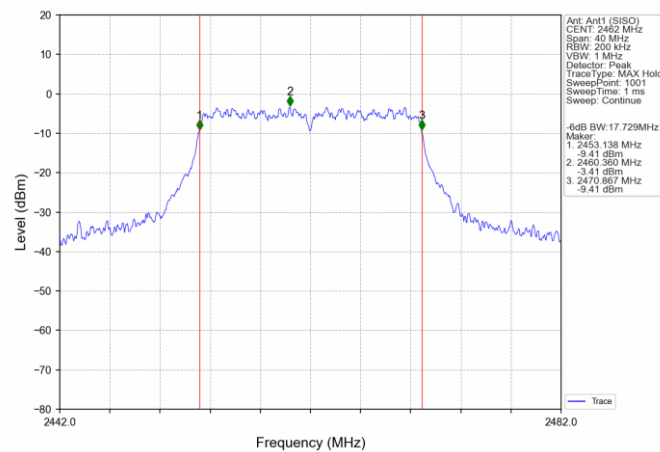
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	15.08	<=30	Pass
		2437	15.29	<=30	Pass
		2462	14.92	<=30	Pass
802.11g	SISO	2412	14.73	<=30	Pass
		2437	15.07	<=30	Pass
		2462	14.96	<=30	Pass
802.11n (HT20)	SISO	2412	15.10	<=30	Pass
		2437	15.24	<=30	Pass
		2462	15.06	<=30	Pass
Note1: Antenna Gain: Ant1: 2.67dBi;					



4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

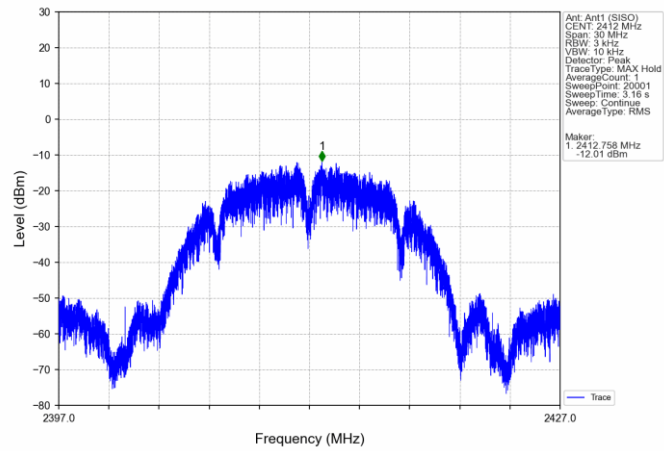
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	-12.01dBm/3kHz	<=8	Pass
		2437	-11.86dBm/3kHz	<=8	Pass
		2462	-11.98dBm/3kHz	<=8	Pass
802.11g	SISO	2412	-19.44dBm/3kHz	<=8	Pass
		2437	-18.61dBm/3kHz	<=8	Pass
		2462	-18.70dBm/3kHz	<=8	Pass
802.11n (HT20)	SISO	2412	-18.36dBm/3kHz	<=8	Pass
		2437	-18.29dBm/3kHz	<=8	Pass
		2462	-18.56dBm/3kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 2.67dBi;					



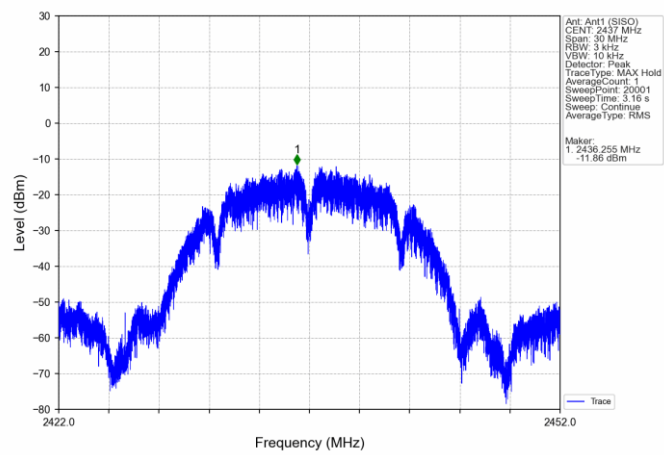
4.2 Test Graph

4.2.1 PSD

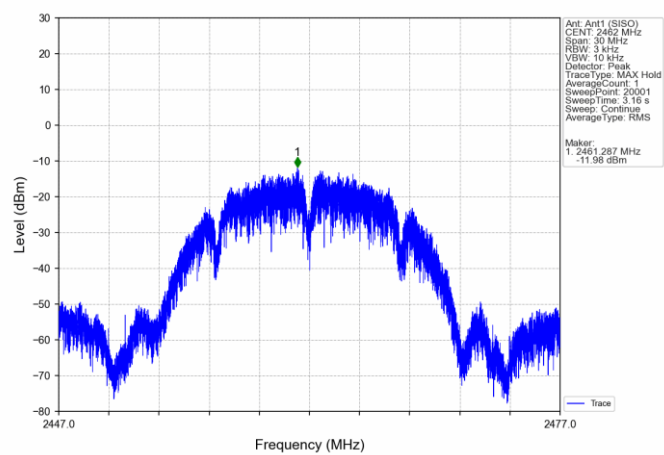
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

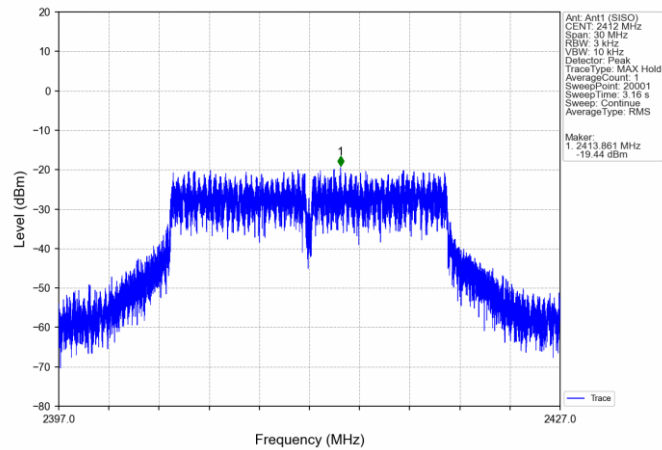


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

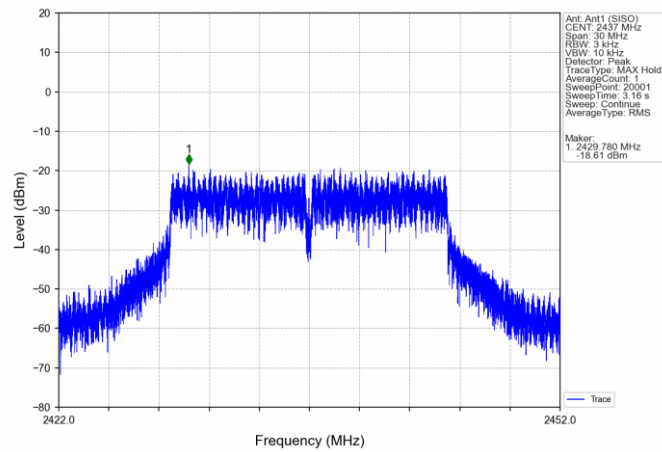




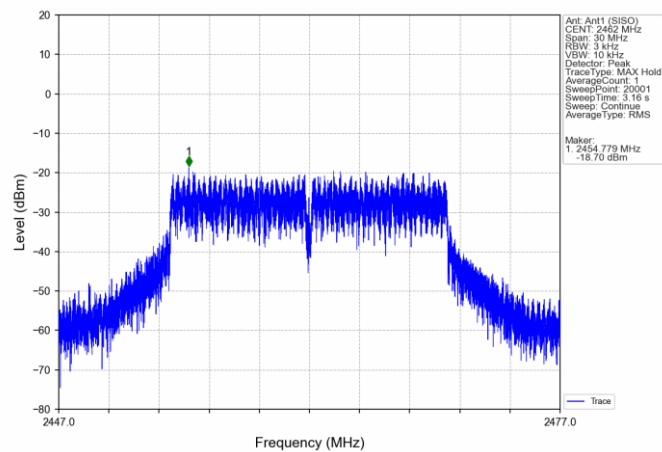
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

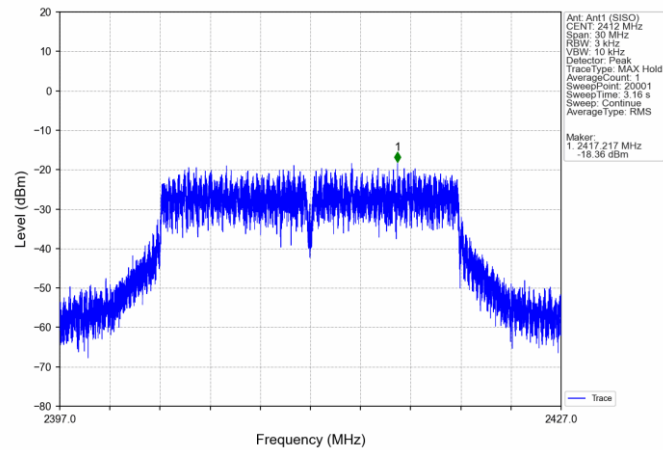


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

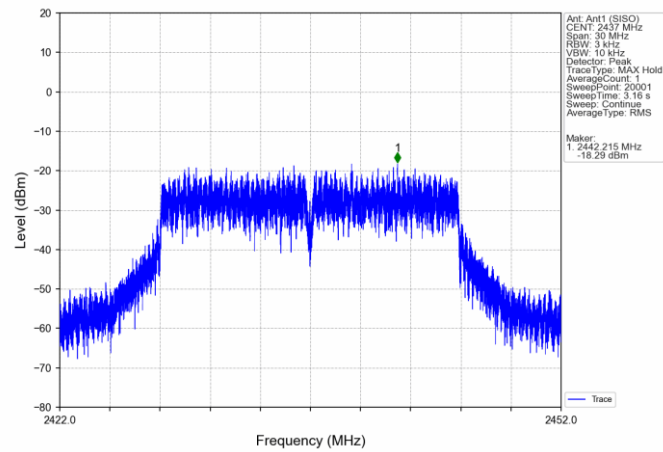




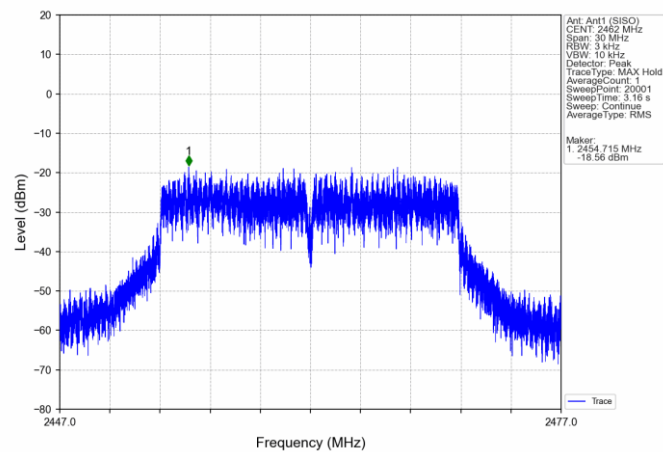
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.04
		2437	1	3.28
		2462	1	2.70
802.11g	SISO	2412	1	-4.42
		2437	1	-4.22
		2462	1	-4.17
802.11n (HT20)	SISO	2412	1	-4.06
		2437	1	-4.09
		2462	1	-4.12

5.1.2 CSE

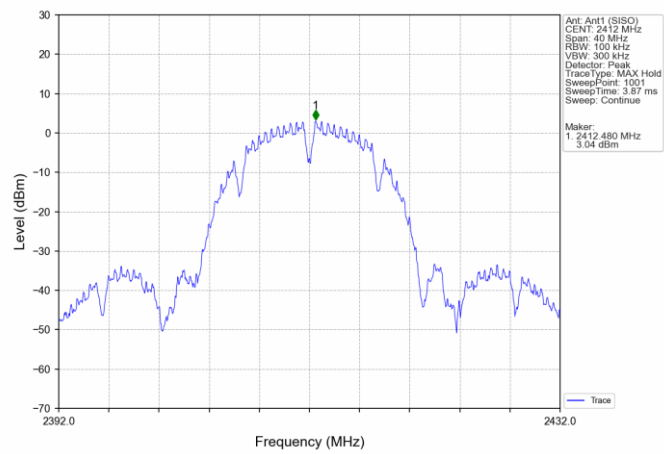
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.04	-16.96	Pass
		2437	1	3.28	-16.72	Pass
		2462	1	2.70	-17.30	Pass
802.11g	SISO	2412	1	-4.42	-24.42	Pass
		2437	1	-4.22	-24.22	Pass
		2462	1	-4.17	-24.17	Pass
802.11n (HT20)	SISO	2412	1	-4.06	-24.06	Pass
		2437	1	-4.09	-24.09	Pass
		2462	1	-4.12	-24.12	Pass



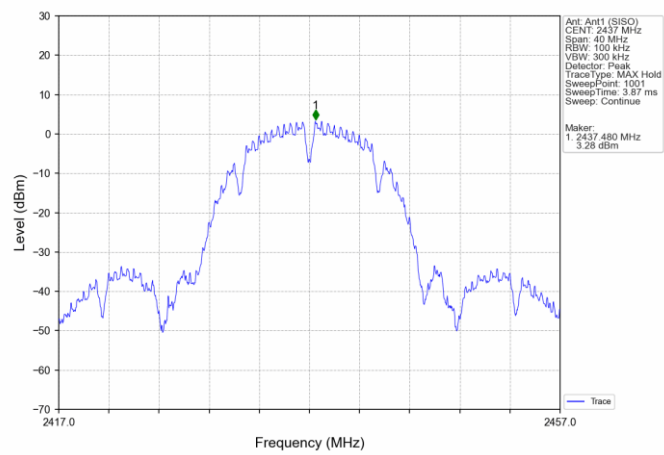
5.2 Test Graph

5.2.1 Ref

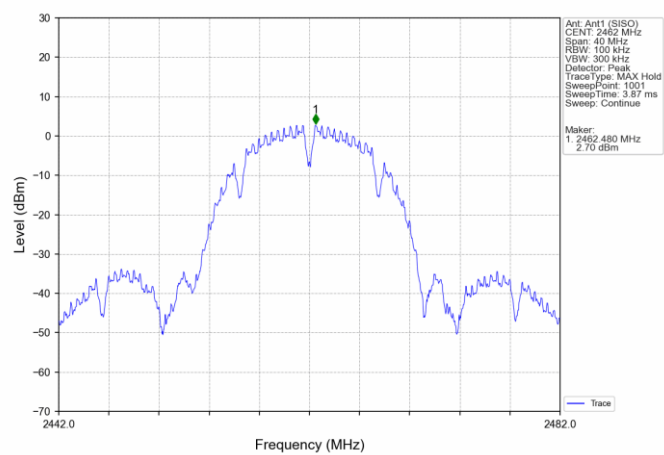
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

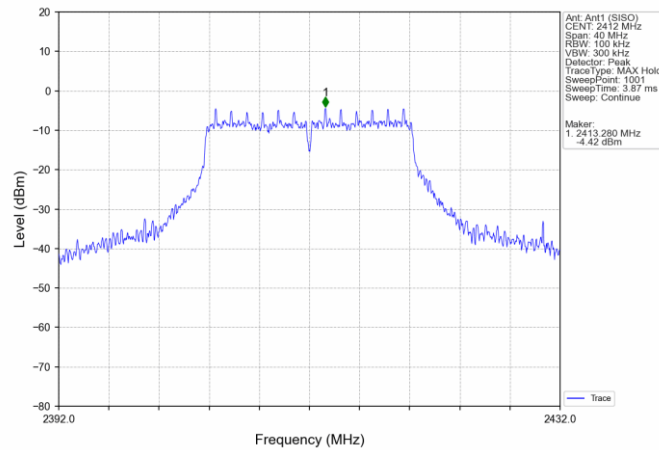


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

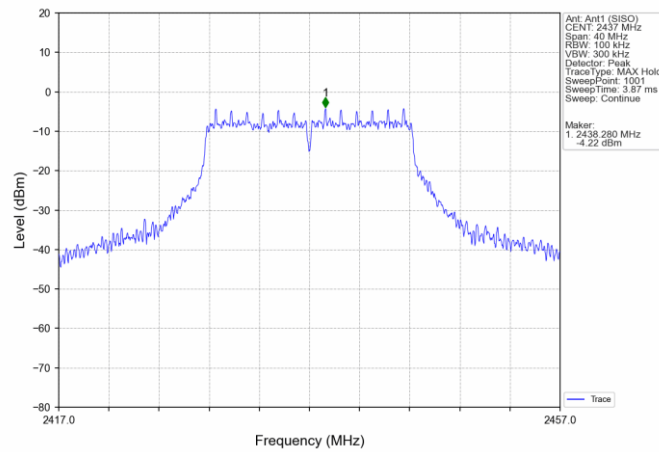




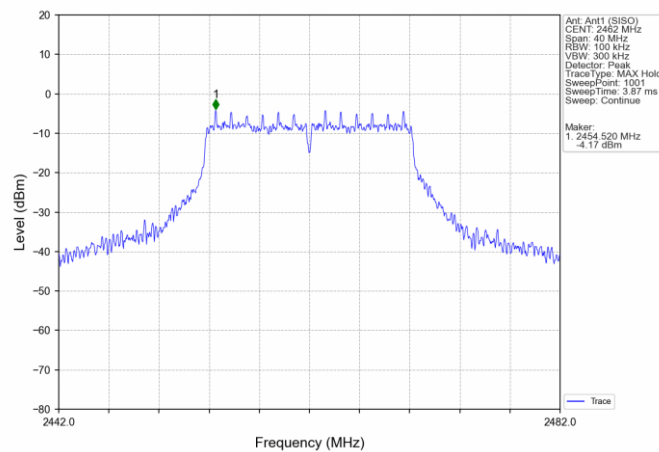
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

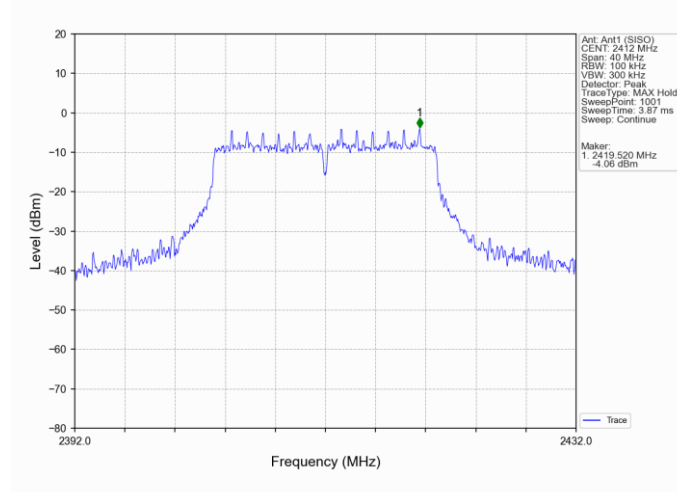


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

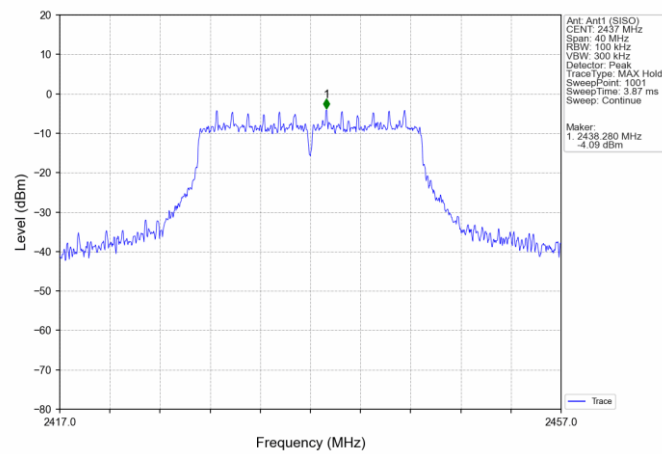




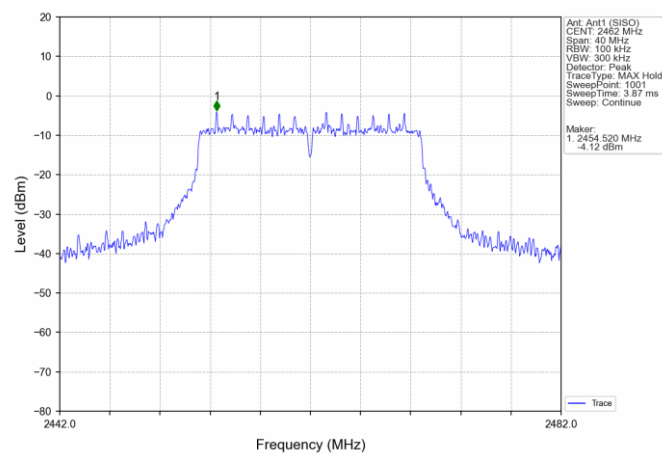
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



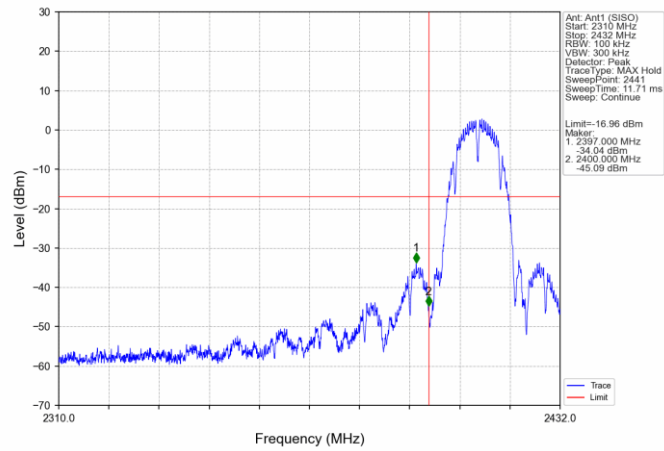
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



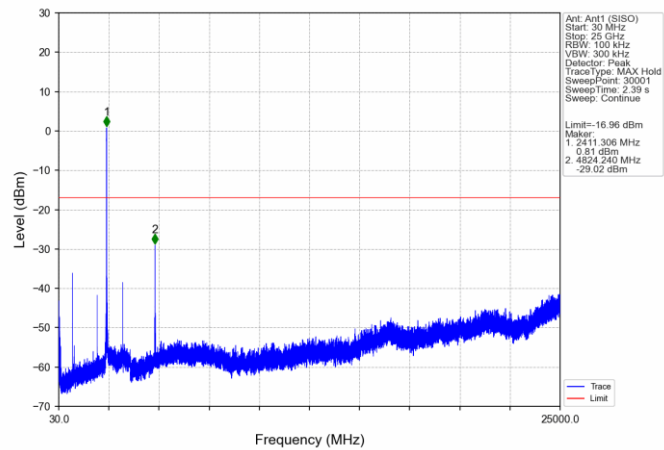


5.2.2 CSE

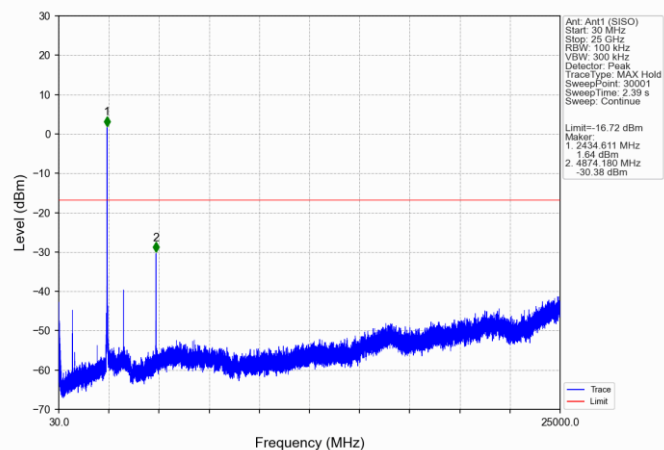
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

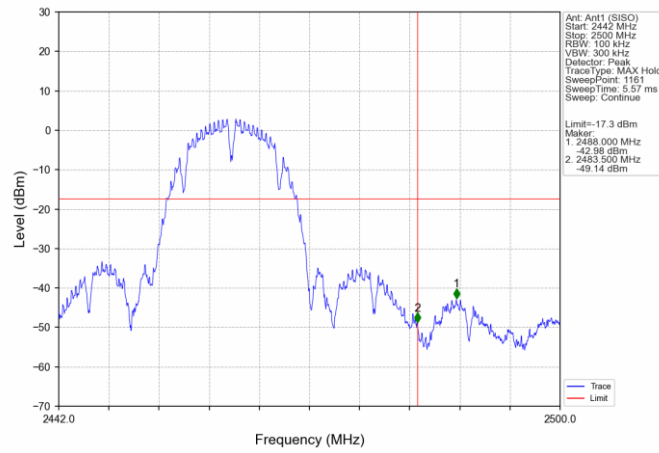


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

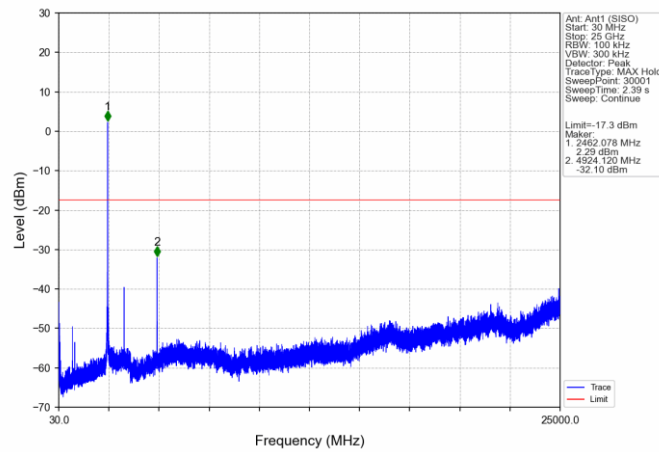




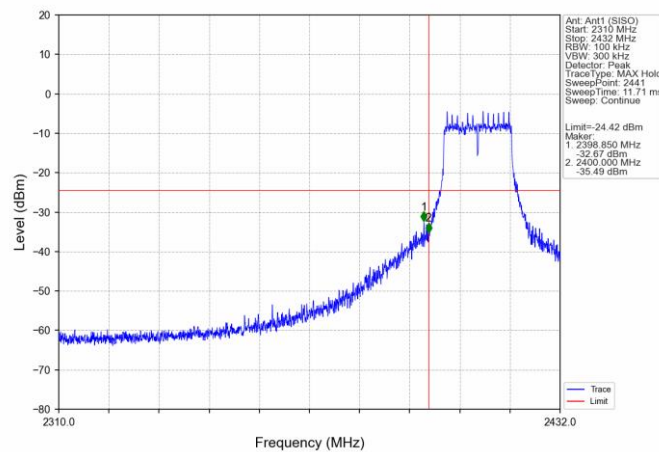
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

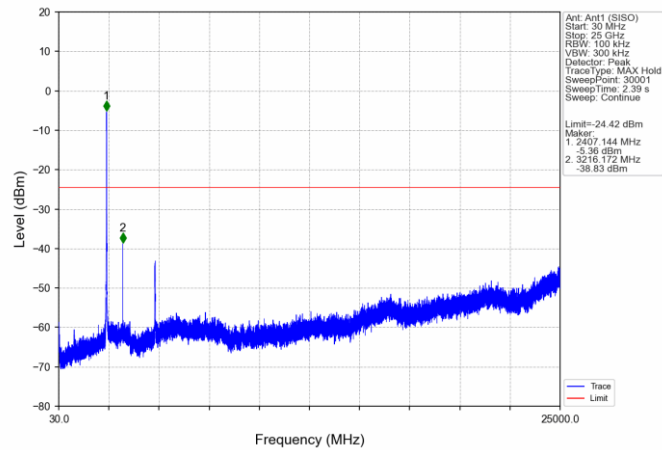


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

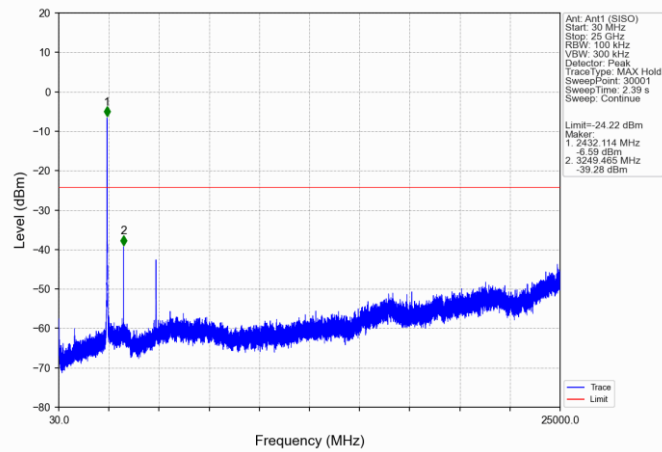




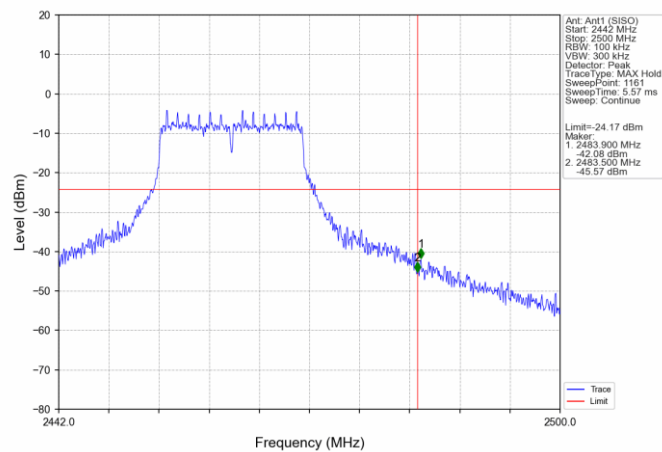
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

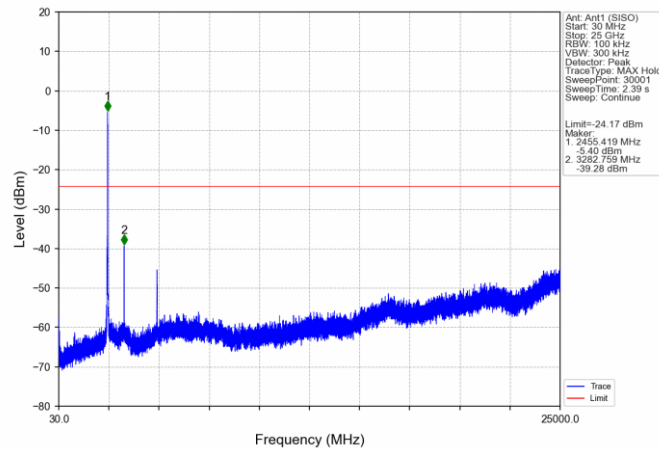


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

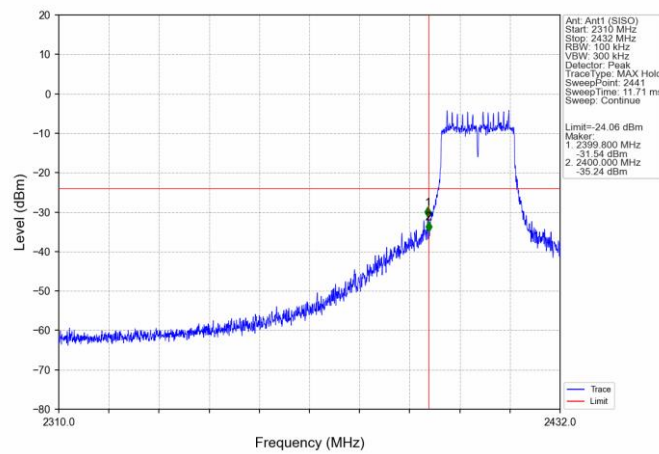




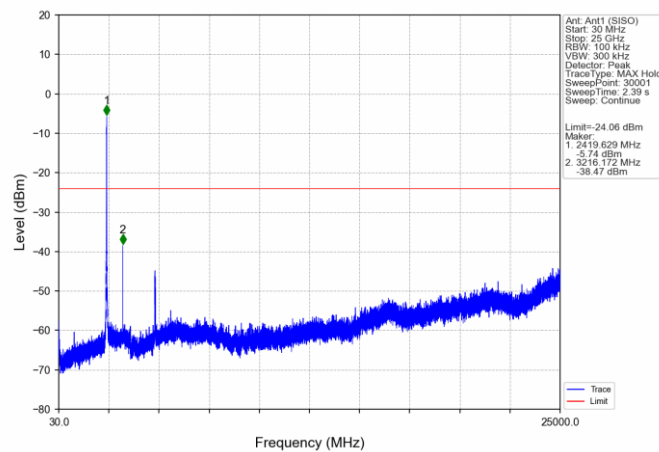
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

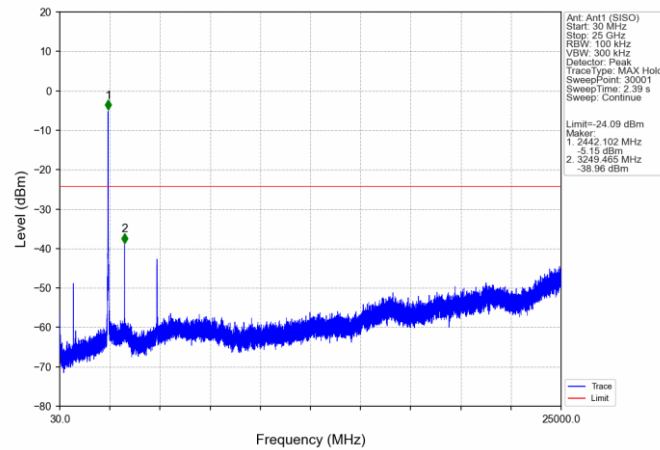


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

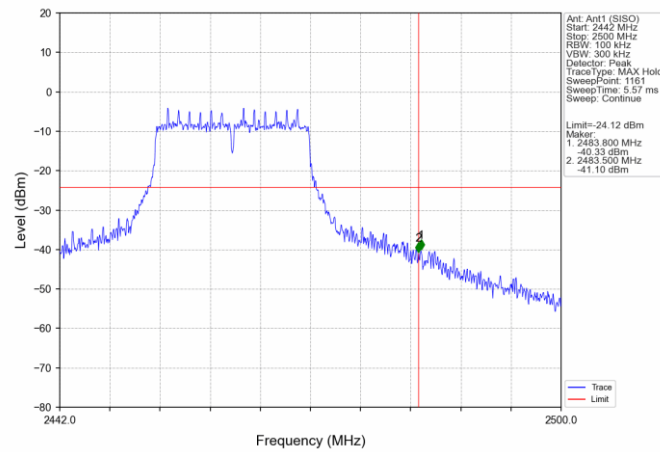




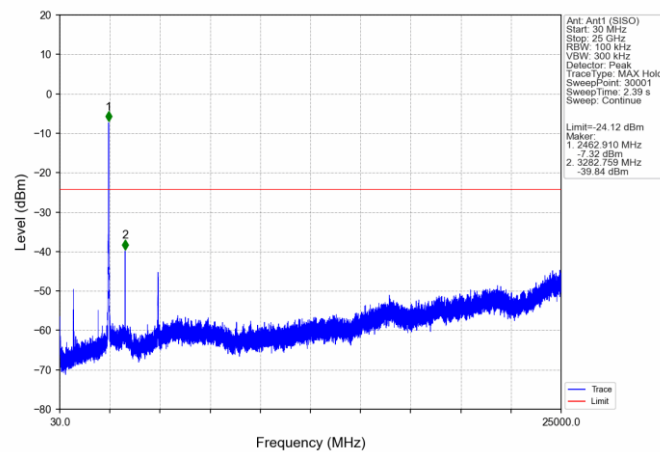
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID.

※※※※※END OF THE REPORT※※※※※