



FCC Part 15C Test Report

FCC ID: 2A3YC-NKL08

Applicant: Shenzhen NKL Technology Co., Ltd.

Address: 7th Floor, Building A, Juyin Technology Industrial Park, Ganli Road, Jihua Street, Longgang District, Shenzhen

Manufacturer: Shenzhen NKL Technology Co., Ltd.

Address: 7th Floor, Building A, Juyin Technology Industrial Park, Ganli Road, Jihua Street, Longgang District, Shenzhen

EUT: Visualized Smart Electric Toothbrush

Trade Mark: N/A

Model Number: NKL08

Date of Receipt: Nov. 29, 2021

Test Date: Nov. 29, 2021 – Dec. 14, 2021

Date of Report: Dec. 14, 2021

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

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Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10:2013

Test Result: Pass

Report Number: DL-20211214017E

Prepared (Test Engineer): Pxing Huang

Reviewer (Supervisor): Jack Bu

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This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.205	Band Edge Emission	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(d)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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	Conducted Emission Test	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	Visualized Smart Electric Toothbrush
Trademark	N/A
Model No.:	NKL08
Model Difference	N/A
Operation Frequency:	2412~2462 MHz for 802.11b/g/nHT20 2422~2452 MHz for 802.11nHT40
Channel numbers:	11 Channels for 802.11b/g/n(HT20) 7 channels for 802.11nHT40
Channel separation:	5MHz
Modulation technology:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n(20): DSSS (CCK, DQPSK,DBPSK)+OFDM (QPSK, BPSK, 16-QAM, 64-QAM)
Rate of Transmitter	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps
Antenna Type:	Built-in antenna
Antenna gain:	0dBi
Power supply:	DC 3.7V from battery DC 5V from USB

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.



2. Channel List(802.11b/g/nHT20)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.412	07	2.442
02	2.417	08	2.447
03	2.422	09	2.452
04	2.427	10	2.457
05	2.432	11	2.462
06	2.437		

Channel List(802.11nHT40)

Channel	Frequency (GHz)	Channel	Frequency (GHz)
03	2.422	07	2.442
04	2.427	08	2.447
05	2.432	09	2.452
06	2.437		

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11nHT20 CH1/ CH6/ CH11
Mode 4	802.11nHT40 CH3/ CH6/ CH09
Mode 5	Link Mode
For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11nHT20 CH1/ CH6/ CH11
Mode 4	802.11nHT40 CH3/ CH6/ CH09

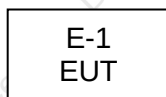
Note: 1. The measurements are performed at the highest, middle, lowest available channels.

2. During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

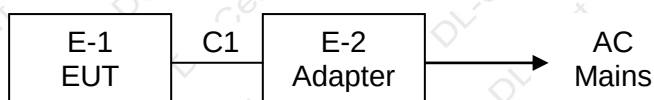


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Visualized Smart Electric Toothbrush	NKL08	N/A	
E-2	Adapter	HW-0502000E	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	No	No	0.5m	Mini USB Line

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

Max output power Setting				
Test software Version	Test program: AXDN-0002.0			
Mode	802.11b	802.11g	802.11n HT20	802.11n HT40
Data Rate	1Mbps	1Mbps	MSC0	MSC0
Power Setting of Software	60	60	60	66



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Dec. 07, 2021	Dec. 06, 2022
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Dec. 07, 2021	Dec. 06, 2022
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Dec. 07, 2021	Dec. 06, 2022
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Dec. 07, 2021	Dec. 06, 2022
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Dec. 07, 2021	Dec. 06, 2022
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Dec. 07, 2021	Dec. 06, 2022
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Dec. 07, 2021	Dec. 06, 2022
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Dec. 07, 2021	Dec. 06, 2022
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Dec. 07, 2021	Dec. 06, 2022
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Dec. 07, 2021	Dec. 06, 2022
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Dec. 07, 2021	Dec. 06, 2022
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Dec. 07, 2021	Dec. 06, 2022
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Dec. 07, 2021	Dec. 06, 2022
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Dec. 07, 2021	Dec. 06, 2022
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Dec. 07, 2021	Dec. 06, 2022
16	D.C. Power Supply	LongWei	PS-305D	010964729	Dec. 07, 2021	Dec. 06, 2022

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 25, 2019	Nov. 24, 2022
2	EMI Receiver	R&S	ESR	101421	Dec. 07, 2021	Dec. 06, 2022
3	LISN	R&S	ENV216	102417	Dec. 07, 2021	Dec. 06, 2022
4	843 Cable 1#	ChengYu	CE Cable	001	Dec. 07, 2021	Dec. 06, 2022

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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

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

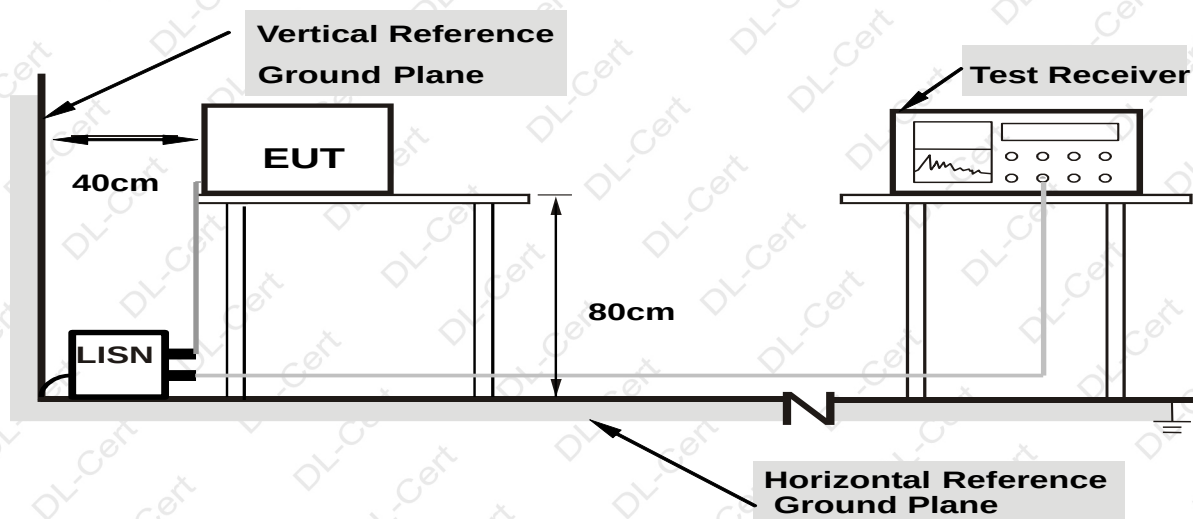
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation



3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

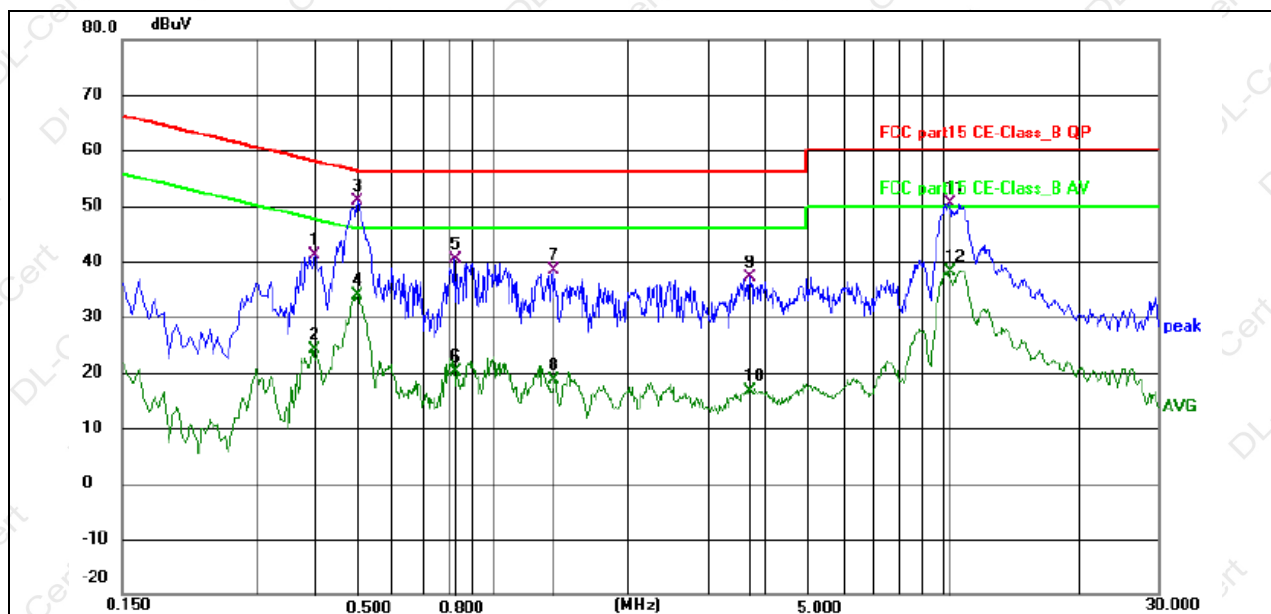
3.1.5 EUT OPERATING CONDITIONS

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.

3.1.6 TEST RESULTS



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



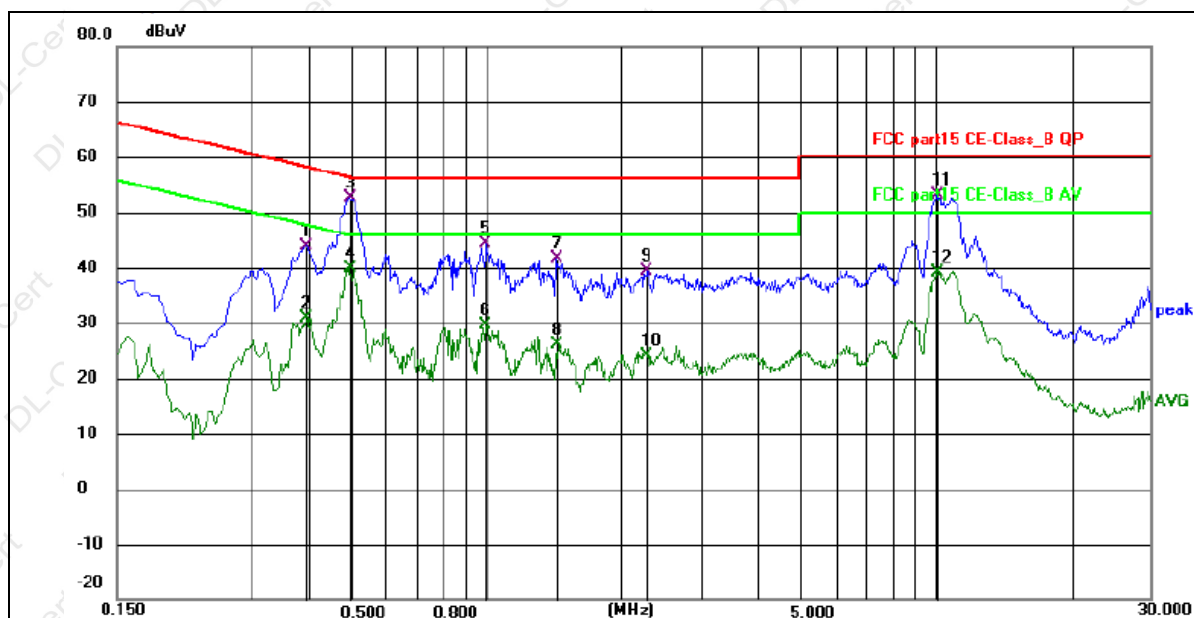
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4020	31.88	9.31	41.19	57.81	16.62	QP	P	
2	0.4020	14.74	9.31	24.05	47.81	23.76	AVG	P	
3 *	0.5010	41.48	9.35	50.83	56.00	5.17	QP	P	
4	0.5010	24.45	9.35	33.80	46.00	12.20	AVG	P	
5	0.8249	30.84	9.51	40.35	56.00	15.65	QP	P	
6	0.8249	10.67	9.51	20.18	46.00	25.82	AVG	P	
7	1.3693	28.80	9.65	38.45	56.00	17.55	QP	P	
8	1.3693	8.90	9.65	18.55	46.00	27.45	AVG	P	
9	3.7275	27.58	9.47	37.05	56.00	18.95	QP	P	
10	3.7275	7.18	9.47	16.65	46.00	29.35	AVG	P	
11	10.2930	40.47	10.01	50.48	60.00	9.52	QP	P	
12	10.2930	28.20	10.01	38.21	50.00	11.79	AVG	P	



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 5



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3975	34.59	9.41	44.00	57.91	13.91	QP	P	
2	0.3975	21.42	9.41	30.83	47.91	17.08	AVG	P	
3 *	0.4965	43.09	9.54	52.63	56.06	3.43	QP	P	
4	0.4965	30.38	9.54	39.92	46.06	6.14	AVG	P	
5	0.9959	34.70	9.57	44.27	56.00	11.73	QP	P	
6	0.9959	20.14	9.57	29.71	46.00	16.29	AVG	P	
7	1.4324	31.84	9.75	41.59	56.00	14.41	QP	P	
8	1.4324	16.40	9.75	26.15	46.00	19.85	AVG	P	
9	2.2783	29.32	9.98	39.30	56.00	16.70	QP	P	
10	2.2783	14.19	9.98	24.17	46.00	21.83	AVG	P	
11	10.0680	42.97	10.19	53.16	60.00	6.84	QP	P	
12	10.0680	28.89	10.19	39.08	50.00	10.92	AVG	P	



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolt/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 (Above 1000MHz)

FREQUENCY (MHz)	Limit (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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 0.8 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

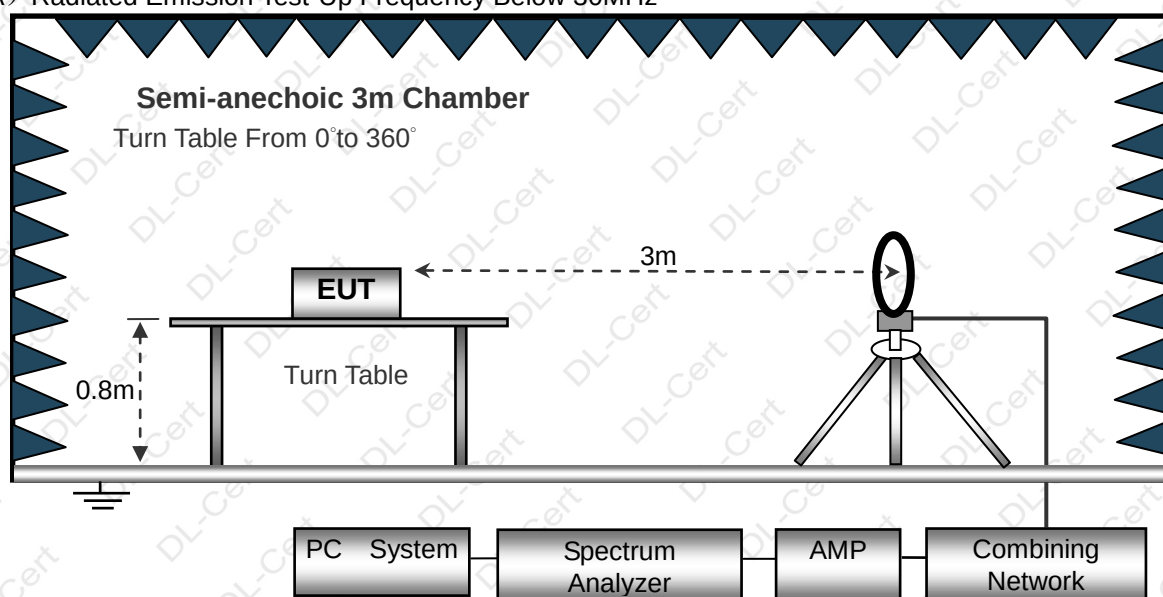
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

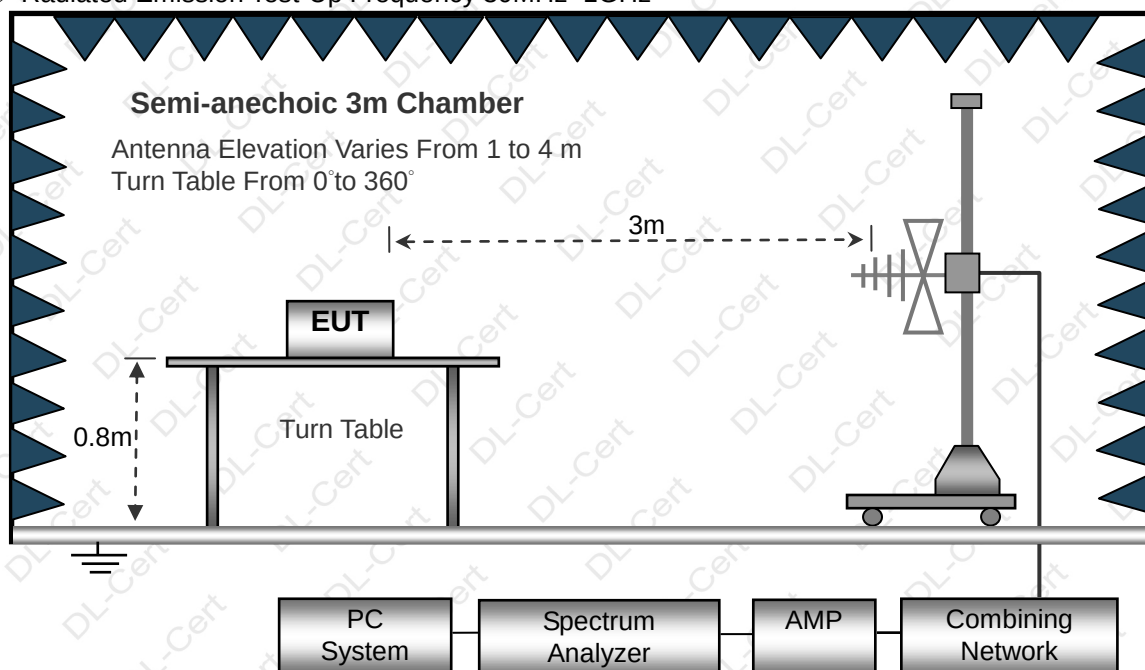
No deviation

3.2.4 TEST SETUP

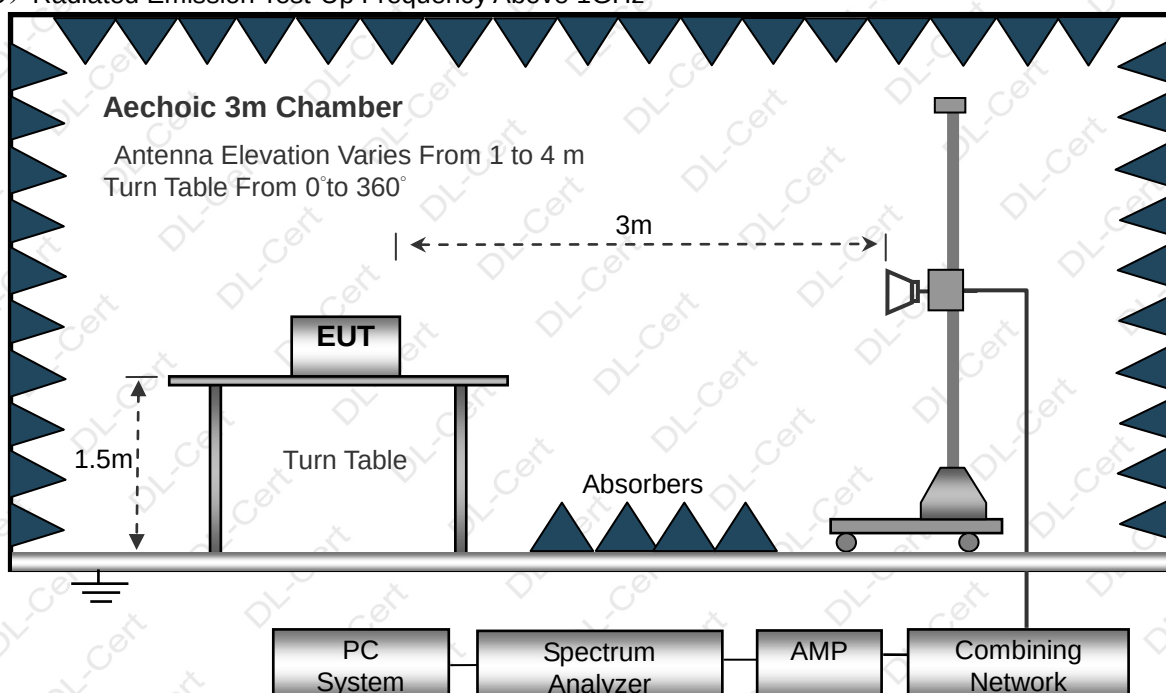
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

Temperature:	20°C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 4	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

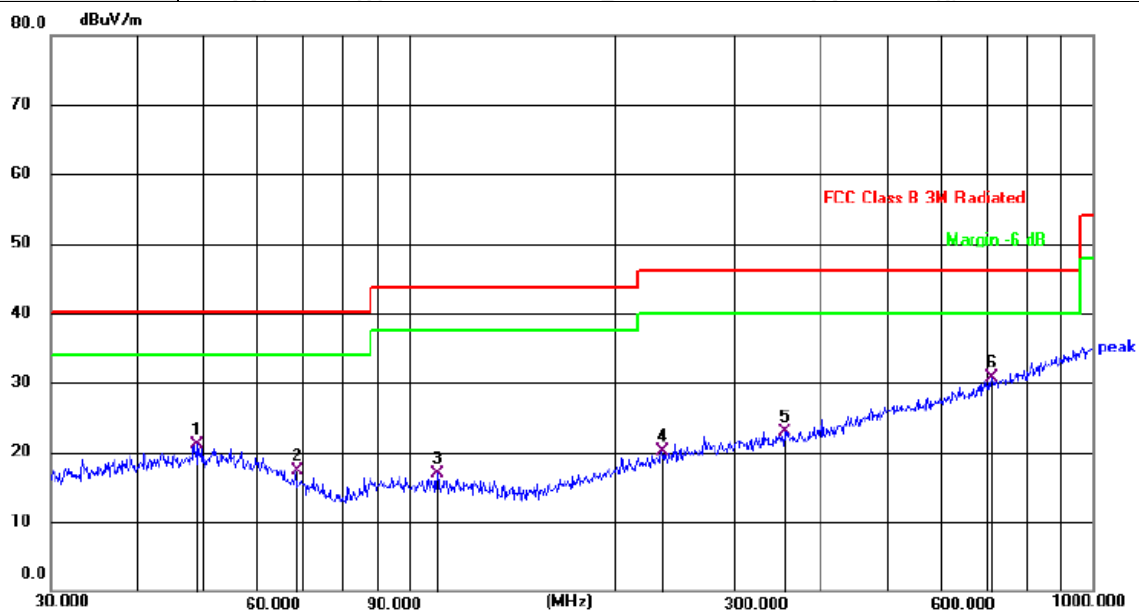
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

**3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)**

Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V		
Test Mode :	Mode 5		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		49.0144	34.58	-13.40	21.18	40.00	18.82	QP
2		68.3908	34.04	-16.77	17.27	40.00	22.73	QP
3		110.1816	34.60	-17.79	16.81	43.50	26.69	QP
4		234.1683	34.75	-14.56	20.19	46.00	25.81	QP
5		354.1831	34.52	-11.63	22.89	46.00	23.11	QP
6	*	711.6734	35.05	-4.31	30.74	46.00	15.26	QP

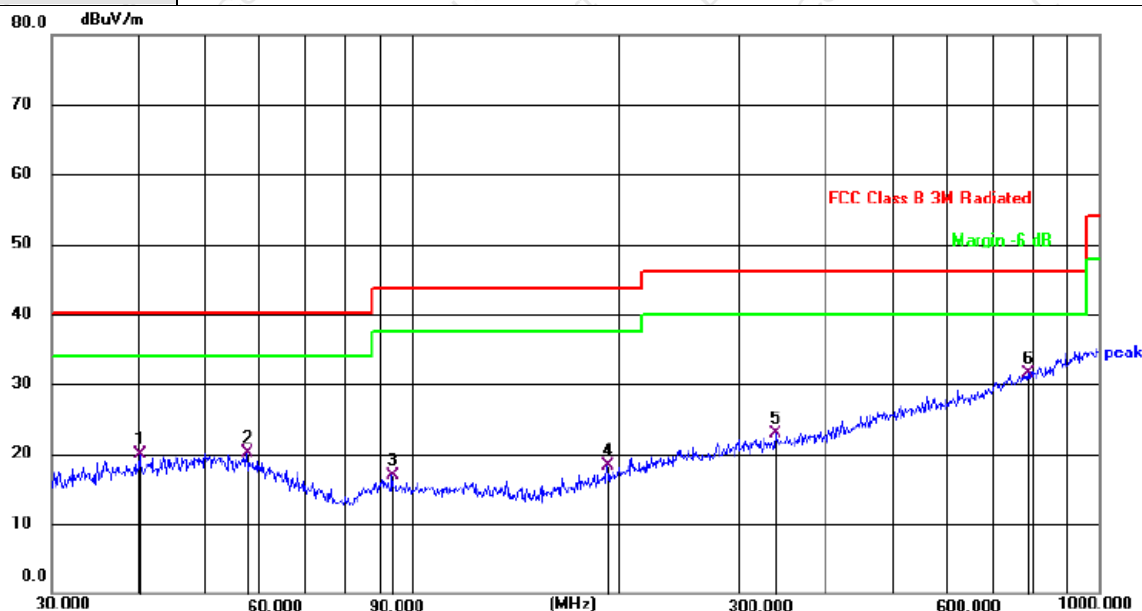
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;



Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.7V		
Test Mode :	Mode 5		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		40.2756	34.24	-14.28	19.96	40.00	20.04	QP
2		57.5939	34.05	-13.97	20.08	40.00	19.92	QP
3		93.7684	34.25	-17.37	16.88	43.50	26.62	QP
4		192.4185	34.87	-16.49	18.38	43.50	25.12	QP
5		338.4000	34.75	-11.89	22.86	46.00	23.14	QP
6	*	787.8512	34.64	-3.19	31.45	46.00	14.55	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;

**3.2.8 TEST RESULTS (1GHZ~25GHZ)**

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	67.25	50.65	6.88	31.29	54.77	74	-19.23	PK
V	4824	55.13	50.65	6.88	31.29	42.65	54	-11.35	AV
V	7236	66.52	49.98	7.16	36.63	60.33	74	-13.67	PK
V	7236	46.24	49.98	7.16	36.63	40.05	54	-13.95	AV
V	16087	48.17	51.53	11.34	41.52	49.5	74	-24.5	PK
H	4824	66.15	50.65	6.88	31.29	53.67	74	-20.33	PK
H	4824	55.67	50.65	6.88	31.29	43.19	54	-10.81	AV
H	7236	69.31	49.98	7.16	36.63	63.12	74	-10.88	PK
H	7236	45.79	49.98	7.16	36.63	39.6	54	-14.4	AV
H	16087	48.43	51.53	11.34	41.52	49.76	74	-24.24	PK
operation frequency:2437									
V	4874	67.53	50.67	6.89	31.38	55.13	74	-18.87	PK
V	4874	55.44	50.67	6.89	31.38	43.04	54	-10.96	AV
V	7311	69.67	50.02	7.24	36.63	63.52	74	-10.48	PK
V	7311	46.38	50.02	7.24	36.63	40.23	54	-13.77	AV
V	16087	48.56	51.53	11.34	41.52	49.89	74	-24.11	PK
H	4874	66.21	50.67	6.89	31.38	53.81	74	-20.19	PK
H	4874	55.16	50.67	6.89	31.38	42.76	54	-11.24	AV
H	7311	69.37	50.02	7.24	36.63	63.22	74	-10.78	PK
H	7311	47.23	50.02	7.24	36.63	41.08	54	-12.92	AV
H	16087	48.59	51.53	11.34	41.52	49.92	74	-24.08	PK
operation frequency:2462									
V	4924	68.31	50.79	6.83	31.36	55.71	74	-18.29	PK
V	4924	55.89	50.79	6.83	31.36	43.29	54	-10.71	AV
V	7386	69.27	50.11	7.25	36.58	62.99	74	-11.01	PK
V	7386	46.46	50.11	7.25	36.58	40.18	54	-13.82	AV
V	16087	49.46	51.53	11.34	41.52	50.79	74	-23.21	PK
H	4924	67.58	50.79	6.83	31.36	54.98	74	-19.02	PK
H	4924	55.22	50.79	6.83	31.36	42.62	54	-11.38	AV
H	7386	67.19	50.11	7.25	36.58	60.91	74	-13.09	PK
H	7386	48.85	50.11	7.25	36.58	42.57	54	-11.43	AV
H	16087	49.53	51.53	11.34	41.52	50.86	74	-23.14	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	67.36	50.65	6.88	31.29	54.88	74	-19.12	PK
V	4824	55.21	50.65	6.88	31.29	42.73	54	-11.27	AV
V	7236	66.18	49.98	7.16	36.63	59.99	74	-14.01	PK
V	7236	46.74	49.98	7.16	36.63	40.55	54	-13.45	AV
V	16087	49.24	51.53	11.34	41.52	50.57	74	-23.43	PK
H	4824	69.25	50.65	6.88	31.29	56.77	74	-17.23	PK
H	4824	52.16	50.65	6.88	31.29	39.68	54	-14.32	AV
H	7236	66.51	49.98	7.16	36.63	60.32	74	-13.68	PK
H	7236	47.31	49.98	7.16	36.63	41.12	54	-12.88	AV
H	16087	47.04	51.53	11.34	41.52	48.37	74	-25.63	PK
operation frequency:2437									
V	4874	67.17	50.67	6.89	31.38	54.77	74	-19.23	PK
V	4874	55.32	50.67	6.89	31.38	42.92	54	-11.08	AV
V	7311	66.37	50.02	7.24	36.63	60.22	74	-13.78	PK
V	7311	46.21	50.02	7.24	36.63	40.06	54	-13.94	AV
V	16087	48.07	51.53	11.34	41.52	49.4	74	-24.6	PK
H	4874	66.24	50.67	6.89	31.38	53.84	74	-20.16	PK
H	4874	55.15	50.67	6.89	31.38	42.75	54	-11.25	AV
H	7311	65.26	50.02	7.24	36.63	59.11	74	-14.89	PK
H	7311	47.53	50.02	7.24	36.63	41.38	54	-12.62	AV
H	16087	48.06	51.53	11.34	41.52	49.39	74	-24.61	PK
operation frequency:2462									
V	4924	67.14	50.79	6.83	31.36	54.54	74	-19.46	PK
V	4924	55.35	50.79	6.83	31.36	42.75	54	-11.25	AV
V	7386	66.77	50.11	7.25	36.58	60.49	74	-13.51	PK
V	7386	47.43	50.11	7.25	36.58	41.15	54	-12.85	AV
V	16087	46.23	51.53	11.34	41.52	47.56	74	-26.44	PK
H	4924	66.15	50.79	6.83	31.36	53.55	74	-20.45	PK
H	4924	54.23	50.79	6.83	31.36	41.63	54	-12.37	AV
H	7386	65.39	50.11	7.25	36.58	59.11	74	-14.89	PK
H	7386	45.25	50.11	7.25	36.58	38.97	54	-15.03	AV
H	16087	47.17	51.53	11.34	41.52	48.5	74	-25.5	PK
Remark:									
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit									
2. If peak below the average limit, the average emission was no test.									
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.									



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	4824	66.24	50.65	6.88	31.29	53.76	74	-20.24	PK
V	4824	55.23	50.65	6.88	31.29	42.75	54	-11.25	AV
V	7236	66.57	49.98	7.16	36.63	60.38	74	-13.62	PK
V	7236	46.46	49.98	7.16	36.63	40.27	54	-13.73	AV
V	16087	46.49	51.53	11.34	41.52	47.82	74	-26.18	PK
H	4824	66.27	50.65	6.88	31.29	53.79	74	-20.21	PK
H	4824	55.35	50.65	6.88	31.29	42.87	54	-11.13	AV
H	7236	64.23	49.98	7.16	36.63	58.04	74	-15.96	PK
H	7236	47.54	49.98	7.16	36.63	41.35	54	-12.65	AV
H	16087	47.57	51.53	11.34	41.52	48.9	74	-25.1	PK
operation frequency:2437									
V	4874	66.35	50.67	6.89	31.38	53.95	74	-20.05	PK
V	4874	54.24	50.67	6.89	31.38	41.84	54	-12.16	AV
V	7311	65.45	50.02	7.24	36.63	59.3	74	-14.7	PK
V	7311	47.35	50.02	7.24	36.63	41.2	54	-12.8	AV
V	16087	47.45	51.53	11.34	41.52	48.78	74	-25.22	PK
H	4874	65.19	50.67	6.89	31.38	52.79	74	-21.21	PK
H	4874	53.17	50.67	6.89	31.38	40.77	54	-13.23	AV
H	7311	65.55	50.02	7.24	36.63	59.4	74	-14.6	PK
H	7311	46.26	50.02	7.24	36.63	40.11	54	-13.89	AV
H	16087	46.37	51.53	11.34	41.52	47.7	74	-26.3	PK
operation frequency:2462									
V	4924	67.17	50.79	6.83	31.36	54.57	74	-19.43	PK
V	4924	54.55	50.79	6.83	31.36	41.95	54	-12.05	AV
V	7386	64.31	50.11	7.25	36.58	58.03	74	-15.97	PK
V	7386	46.38	50.11	7.25	36.58	40.1	54	-13.9	AV
V	16087	48.35	51.53	11.34	41.52	49.68	74	-24.32	PK
H	4924	67.23	50.79	6.83	31.36	54.63	74	-19.37	PK
H	4924	54.51	50.79	6.83	31.36	41.91	54	-12.09	AV
H	7386	65.34	50.11	7.25	36.58	59.06	74	-14.94	PK
H	7386	47.25	50.11	7.25	36.58	40.97	54	-13.03	AV
H	16087	47.46	51.53	11.34	41.52	48.79	74	-25.21	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2422									
V	4844	66.14	50.67	6.89	31.32	53.68	74	-20.32	PK
V	4844	55.46	50.67	6.89	31.32	43	54	-11	AV
V	7266	66.53	50.01	7.15	36.62	60.29	74	-13.71	PK
V	7266	46.29	50.01	7.15	36.62	40.05	54	-13.95	AV
V	16087	46.14	51.53	11.34	41.52	47.47	74	-26.53	PK
H	4844	66.03	50.67	6.89	31.32	53.57	74	-20.43	PK
H	4844	55.45	50.67	6.89	31.32	42.99	54	-11.01	AV
H	7266	64.27	50.01	7.15	36.62	58.03	74	-15.97	PK
H	7266	47.67	50.01	7.15	36.62	41.43	54	-12.57	AV
H	16087	47.25	51.53	11.34	41.52	48.58	74	-25.42	PK
operation frequency:2437									
V	4874	66.46	50.67	6.89	31.38	54.06	74	-19.94	PK
V	4874	54.07	50.67	6.89	31.38	41.67	54	-12.33	AV
V	7311	65.15	50.02	7.24	36.63	59	74	-15	PK
V	7311	46.16	50.02	7.24	36.63	40.01	54	-13.99	AV
V	16087	47.46	51.53	11.34	41.52	48.79	74	-25.21	PK
H	4874	65.06	50.67	6.89	31.38	52.66	74	-21.34	PK
H	4874	53.17	50.67	6.89	31.38	40.77	54	-13.23	AV
H	7311	65.54	50.02	7.24	36.63	59.39	74	-14.61	PK
H	7311	47.38	50.02	7.24	36.63	41.23	54	-12.77	AV
H	16087	46.45	51.53	11.34	41.52	47.78	74	-26.22	PK
operation frequency:2452									
V	4904	67.23	50.76	6.81	31.31	54.59	74	-19.41	PK
V	4904	54.17	50.76	6.81	31.31	41.53	54	-12.47	AV
V	7356	64.54	50.08	7.21	36.52	58.19	74	-15.81	PK
V	7356	47.63	50.08	7.21	36.52	41.28	54	-12.72	AV
V	16087	48.51	51.53	11.34	41.52	49.84	74	-24.16	PK
H	4904	67.52	50.76	6.81	31.31	54.88	74	-19.12	PK
H	4904	54.13	50.76	6.81	31.31	41.49	54	-12.51	AV
H	7356	65.25	50.08	7.21	36.52	58.9	74	-15.1	PK
H	7356	46.56	50.08	7.21	36.52	40.21	54	-13.79	AV
H	16087	47.17	51.53	11.34	41.52	48.5	74	-25.5	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

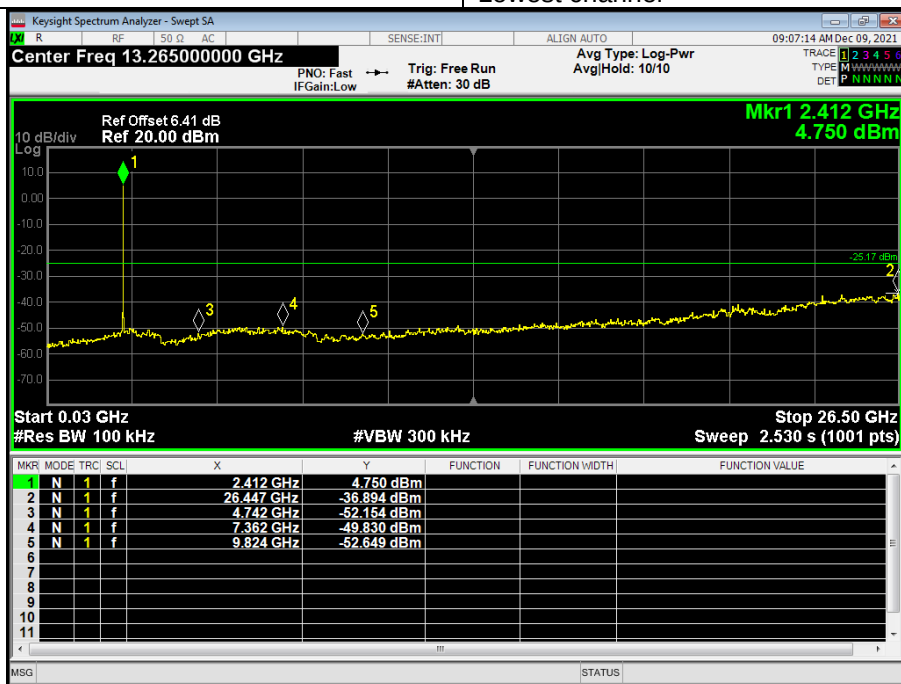


For Conducted

During the test, pre-scan the all modulation, and found the 802.11b mode which it is worse case.

Test channel:

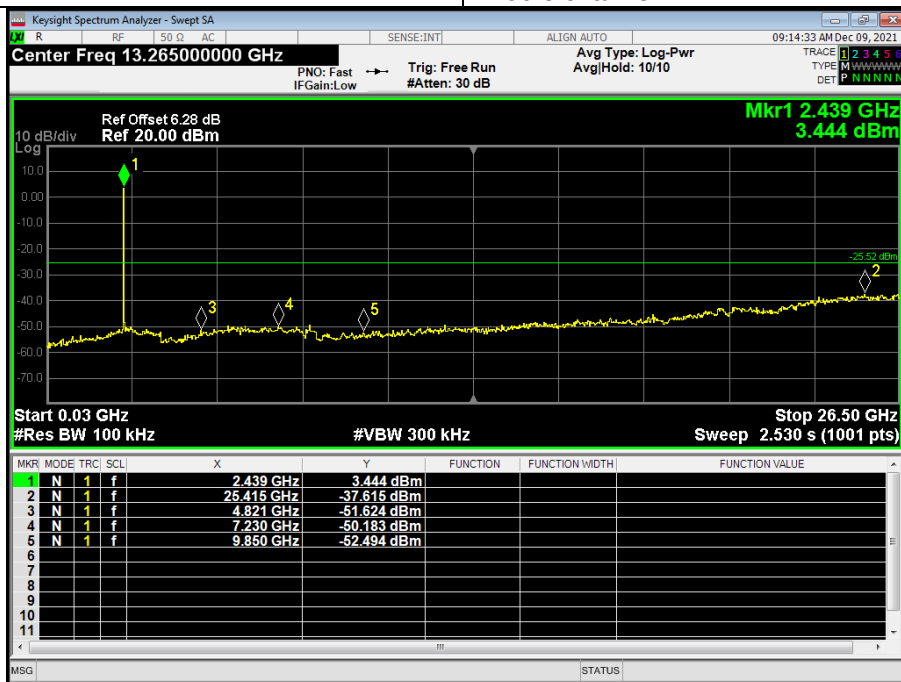
Lowest channel



0.03GHz~25GHz

Test channel:

Middle channel

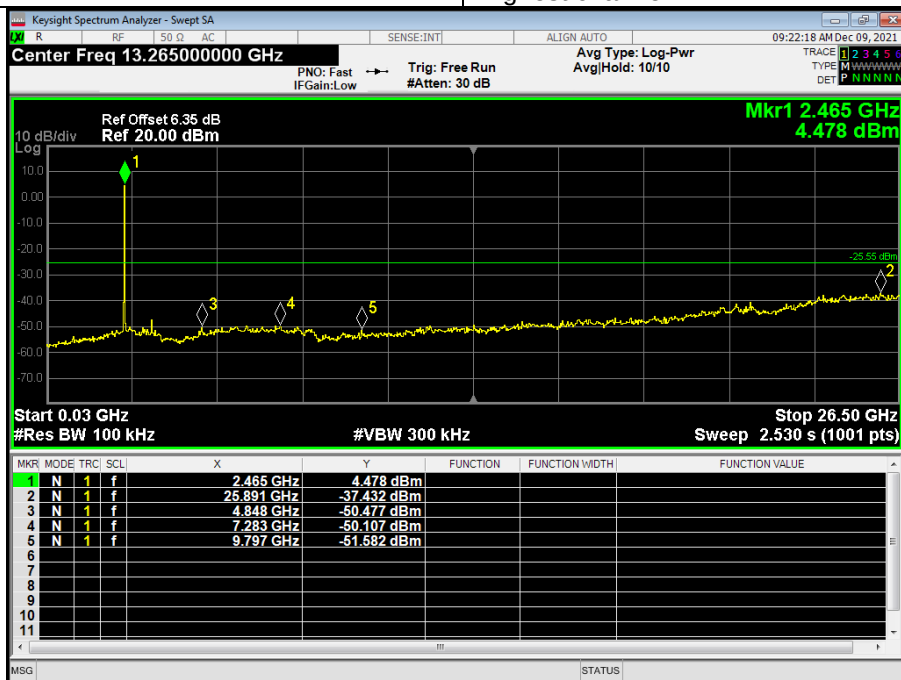


0.03GHz~25GHz



Test channel:

Highest channel



0.03GHz~25GHz



3.3 RADIATED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel,the Highest channel

Note:

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

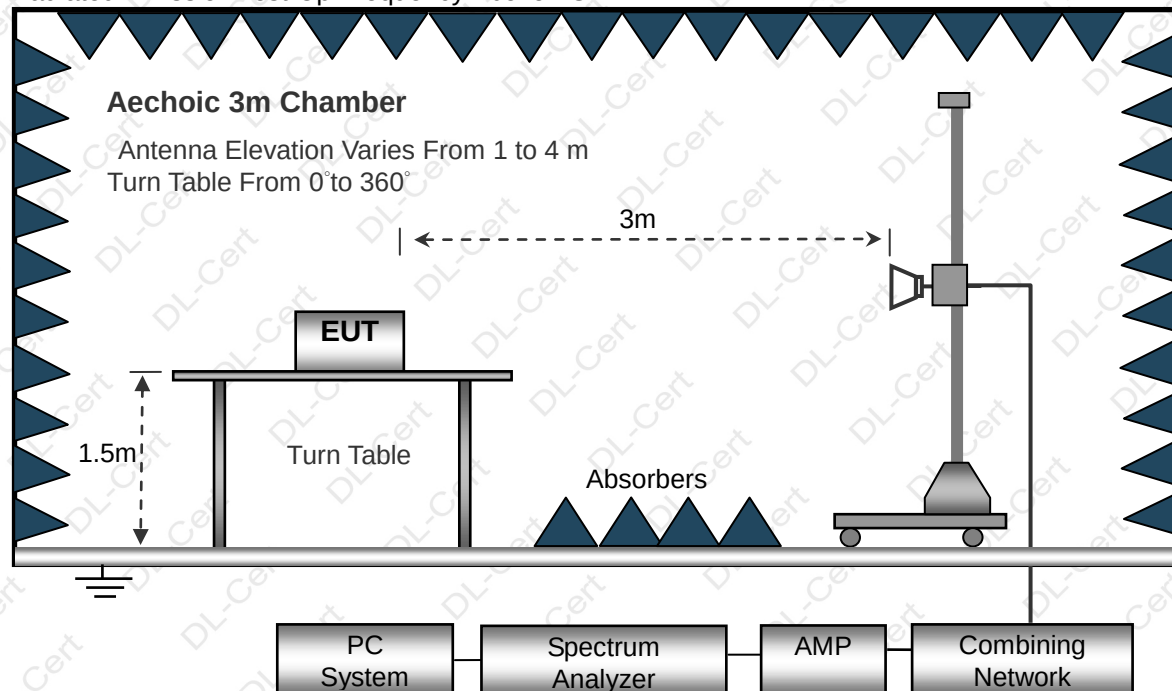
3.3.3 DEVIATION FROM TEST STANDARD

No deviation



3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULT

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	76.56	52.12	2.73	27.38	54.55	74	-19.45	PK
V	2390	65.28	52.12	2.73	27.38	43.27	54	-10.73	AV
V	2400	76.27	52.16	2.78	27.41	54.3	74	-19.7	PK
V	2400	64.35	52.16	2.78	27.41	42.38	54	-11.62	AV
H	2390	76.36	52.12	2.73	27.38	54.35	74	-19.65	PK
H	2390	65.24	52.12	2.73	27.38	43.23	54	-10.77	AV
H	2400	76.37	52.16	2.78	27.41	54.4	74	-19.6	PK
H	2400	65.25	52.16	2.78	27.41	43.28	54	-10.72	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	76.46	52.23	2.86	27.44	54.53	74	-19.47	PK
V	2483.5	65.34	52.23	2.86	27.44	43.41	54	-10.59	AV
V	2500	76.38	52.26	2.88	27.49	54.49	74	-19.51	PK
V	2500	64.55	52.26	2.88	27.49	42.66	54	-11.34	AV
H	2483.5	76.34	52.23	2.86	27.44	54.41	74	-19.59	PK
H	2483.5	65.51	52.23	2.86	27.44	43.58	54	-10.42	AV
H	2500	76.17	52.26	2.88	27.49	54.28	74	-19.72	PK
H	2500	65.52	52.26	2.88	27.49	43.63	54	-10.37	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2412									
V	2390	76.56	52.12	2.73	27.38	54.55	74	-19.45	PK
V	2390	65.55	52.12	2.73	27.38	43.54	54	-10.46	AV
V	2400	76.46	52.16	2.78	27.41	54.49	74	-19.51	PK
V	2400	64.36	52.16	2.78	27.41	42.39	54	-11.61	AV
H	2390	76.42	52.12	2.73	27.38	54.41	74	-19.59	PK
H	2390	65.17	52.12	2.73	27.38	43.16	54	-10.84	AV
H	2400	76.55	52.16	2.78	27.41	54.58	74	-19.42	PK
H	2400	65.16	52.16	2.78	27.41	43.19	54	-10.81	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
operation frequency:2462									
V	2483.5	76.34	52.23	2.86	27.44	54.41	74	-19.59	PK
V	2483.5	65.62	52.23	2.86	27.44	43.69	54	-10.31	AV
V	2500	76.13	52.26	2.88	27.49	54.24	74	-19.76	PK
V	2500	65.28	52.26	2.88	27.49	43.39	54	-10.61	AV
H	2483.5	76.34	52.23	2.86	27.44	54.41	74	-19.59	PK
H	2483.5	65.31	52.23	2.86	27.44	43.38	54	-10.62	AV
H	2500	76.87	52.26	2.88	27.49	54.98	74	-19.02	PK
H	2500	65.16	52.26	2.88	27.49	43.27	54	-10.73	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2412									
V	2390	76.25	52.12	2.73	27.38	54.24	74	-19.76	PK
V	2390	65.07	52.12	2.73	27.38	43.06	54	-10.94	AV
V	2400	77.64	52.16	2.78	27.41	55.67	74	-18.33	PK
V	2400	65.26	52.16	2.78	27.41	43.29	54	-10.71	AV
H	2390	77.65	52.12	2.73	27.38	55.64	74	-18.36	PK
H	2390	65.32	52.12	2.73	27.38	43.31	54	-10.69	AV
H	2400	76.27	52.16	2.78	27.41	54.3	74	-19.7	PK
H	2400	65.05	52.16	2.78	27.41	43.08	54	-10.92	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2462									
V	2483.5	77.56	52.23	2.86	27.44	55.63	74	-18.37	PK
V	2483.5	65.34	52.23	2.86	27.44	43.41	54	-10.59	AV
V	2500	76.21	52.26	2.88	27.49	54.32	74	-19.68	PK
V	2500	65.31	52.26	2.88	27.49	43.42	54	-10.58	AV
H	2483.5	77.53	52.23	2.86	27.44	55.6	74	-18.4	PK
H	2483.5	65.41	52.23	2.86	27.44	43.48	54	-10.52	AV
H	2500	76.43	52.26	2.88	27.49	54.54	74	-19.46	PK
H	2500	66.28	52.26	2.88	27.49	44.39	54	-9.61	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2422									
V	2390	76.16	52.12	2.73	27.38	54.15	74	-19.85	PK
V	2390	65.25	52.12	2.73	27.38	43.24	54	-10.76	AV
V	2400	77.32	52.16	2.78	27.41	55.35	74	-18.65	PK
V	2400	65.37	52.16	2.78	27.41	43.4	54	-10.6	AV
H	2390	77.45	52.12	2.73	27.38	55.44	74	-18.56	PK
H	2390	65.23	52.12	2.73	27.38	43.22	54	-10.78	AV
H	2400	76.34	52.16	2.78	27.41	54.37	74	-19.63	PK
H	2400	65.27	52.16	2.78	27.41	43.3	54	-10.7	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:2452									
V	2483.5	77.35	52.23	2.86	27.44	55.42	74	-18.58	PK
V	2483.5	65.61	52.23	2.86	27.44	43.68	54	-10.32	AV
V	2500	76.48	52.26	2.88	27.49	54.59	74	-19.41	PK
V	2500	65.58	52.26	2.88	27.49	43.69	54	-10.31	AV
H	2483.5	77.28	52.23	2.86	27.44	55.35	74	-18.65	PK
H	2483.5	65.34	52.23	2.86	27.44	43.41	54	-10.59	AV
H	2500	76.35	52.26	2.88	27.49	54.46	74	-19.54	PK
H	2500	66.68	52.26	2.88	27.49	44.79	54	-9.21	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.