

TEST REPORT

Report No.: BCTC2010001689-3E

Applicant: Shenzhen Honlin Technology Co., Ltd

Product Name: Laptops

Model/Type Ref.: HL-1068

Tested Date: 2020-11-02 to 2021-01-15

Issued Date: 2021-01-18

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AYBDHL-1068

Product Name: Laptops
Trademark: HBESTORE
HL-1068
Model/Type Ref.: HL-1011, HL1012, HL1016, HL1018, HL1019, HL1068, HL1168, HL1252, HL1488, HL1568, HL1388, HL1162, HL-K701
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Sample Received Date: 2020-11-02
Sample tested Date: 2020-11-02 to 2021-01-15
Issue Date: 2021-01-18
Report No.: BCTC2010001689-3E
FCC Part15 15.407
ANSI C63.10-2013
Test Standards KDB 662911 D01 v02r01
KDB 789033 D02 v02r01
Test Results PASS

Tested by:



Eric Yang/Project Handler

Approved by:



Zero Zhou/Reviewer

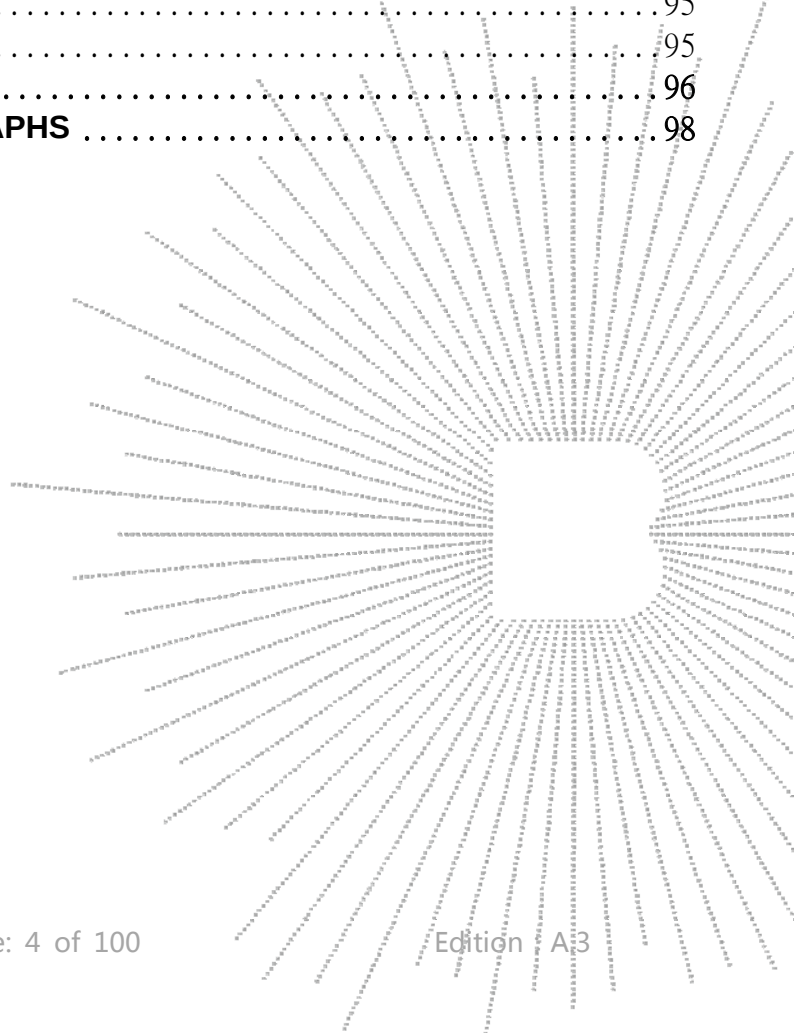
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2010001689-3E	2021-01-18	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209 15.407(b)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407(a)	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407(a)	PASS
6	Band Edge	15.407(b)	PASS
7	Power Spectral Density	15.407(a)	PASS
8	Spurious Emissions at Antenna Terminals	15.407(b)	PASS
9	Frequency Stability	15.407(g)	PASS
10	Antenna Requirement	15.203	PASS

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59°C

4. PRODUCT INFORMATION AND TEST SETUP

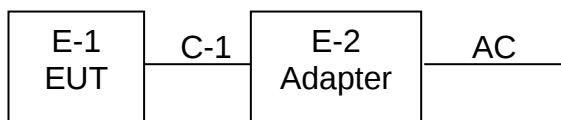
4.1 Product Information

Model/Type Ref.:	HL-1068 HL-1011, HL1012, HL1016, HL1018, HL1019, HL1068, HL1168, HL1252, HL1488, HL1568, HL1388, HL1162, HL-K701
Model differences:	All the model are the same circuit and RF module, except model names.
IEEE 802.11 WLAN Mode Supported	802.11n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11n(HT20)/ac20; 5190-5230MHz for 802.11n(HT40)/ac40; 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11n(HT20)/ac20; 5755-5795 MHz for 802.11n(HT40)/ac40; 5775MHz for 802.11 ac80;
Data Rate	802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11n/ac;
Number Of Channel	4 channels for 802.11n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
Antenna installation:	FPC antenna
Antenna Gain:	Antenna A: 1dBi Antenna B: 1dBi
Ratings:	DC 7.4V DC12V From adapter
Adapter:	MODEL: JHD-AP024U-120200BA-A INPUT: AC100-240~50/60Hz 0.55A OUTPUT: DC 12V 2A

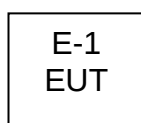
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission Test:



Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Laptops	HBESTORE	HL-1068	N/A	EUT
E-2	Adapter	N/A	JHD-AP024U-120200BA-A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

802.11n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

Frequency and Channel list for 802.11n/ac(20 MHz) band IV (5745-5825MHz):

802.11n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Carrier Frequency Channel	
Channel	Frequency (MHz)
155	5775

4.5 Test Mode

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	802.11n /ac 20 CH36/ CH40/ CH 48
Mode 2	802.11n /ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n/ac 40 CH38/ CH 46
Mode 4	802.11n/ac 40 CH 151 / CH 159
Mode 5	802.11 ac80 CH 42/CH 155
Mode 6	Link Mode

Note:

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

4.6 Antenna

EUT has two FPC antennas with Max gain G_{ANT} 1dBi on every antenna, CDD device with two spatial streams, also can operat with one spatial streams according to KDB662911 D01 v02r01, Directional gain= $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows.

1)For power spectral density(PSD) measurements,

Array Gain= $10\log(N_{ANT}/N_{SS})\text{dB}=10\log(2/2)=0\text{dB}$,

So the directional gain for PSD is 1dBi

2)For power measurements,

The Array gain=0 dB for $N_{ANT} \leq 4$,

So the directional gain for Power measurements is 1dBi

Antenna	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
A	N/A	N/A	FPC antenna	1	
B	N/A	N/A	FPC antenna	1	

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

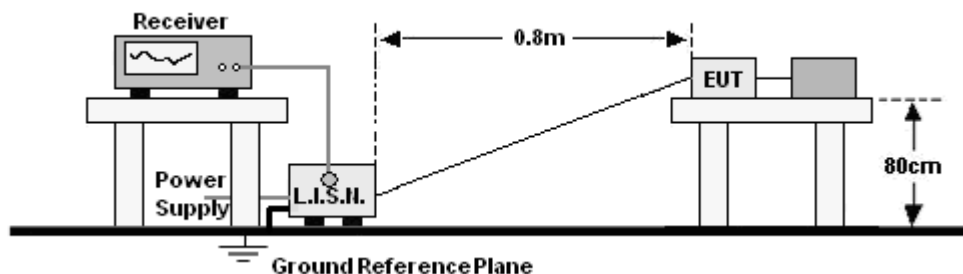
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021
LISN	R&S	ENV216	101375	Jun. 04, 2020	Jun. 03, 2021
ISN	HPX	ISN T800	S1509001	Jun. 04, 2020	Jun. 03, 2021
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Signal Analyzer 20kHz-26.5G Hz	KEYSIGHT	N9020A	MY49100060	Jun. 04, 2020	Jun. 03, 2021

Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021
Receiver	R&S	ESRP	101154	Jun. 08, 2020	Jun. 07, 2021
Amplifier	Schwarzbeck	BBV9718	9718-309	Jun. 04, 2020	Jun. 03, 2021
Amplifier	Schwarzbeck	BBV9744	9744-0037	Jun. 04, 2020	Jun. 03, 2021
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163-942	Jun. 08, 2020	Jun. 07, 2021
Horn Antenna	SCHWARZBECK	BBHA9120 D	1201	Jun. 10, 2020	Jun. 09, 2021
Horn Antenna (18GHz-40GHz)	SCHWARZBECK	BBHA9170	822	Jun. 10, 2020	Jun. 09, 2021
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-3 5-HG	2034381	Jun. 08, 2020	Jun. 07, 2021
Loop Antenna (9kHz-30MHz)	SCHWARZBECK	FMZB1519 B	014	Jun. 08, 2020	Jun. 07, 2021
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30M Hz	B1702988-0008	Jun. 08, 2020	Jun. 07, 2021
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1G Hz	1486150	Jun. 08, 2020	Jun. 07, 2021
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40G Hz	1607106	Jun. 08, 2020	Jun. 07, 2021
Power Metter	Keysight	E4419B	\	Jun. 08, 2020	Jun. 07, 2021
Power Sensor (AV)	Keysight	E9 300A	\	Jun. 08, 2020	Jun. 07, 2021
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY491000 60	Jun. 04, 2020	Jun. 03, 2021
Spectrum Analyzer 9kHz-40GHz	Agilent	FSP40	100363	Jun. 13, 2020	Jun. 12, 2021
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)	
	Quas-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

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

6.3 Test procedure

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

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

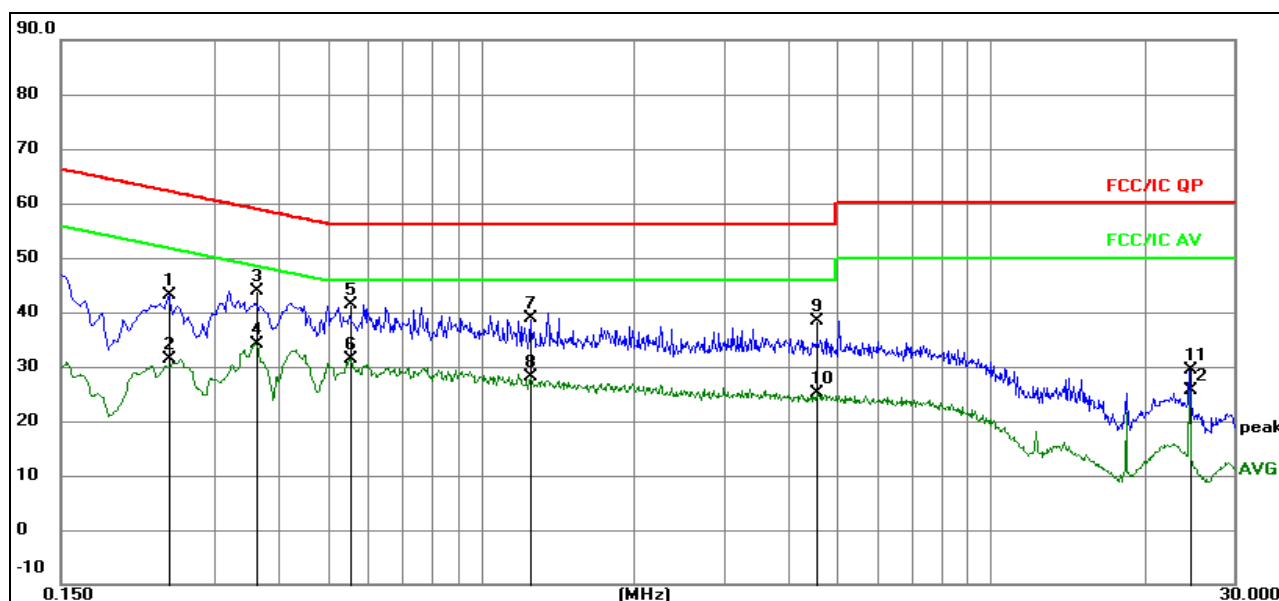
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 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.

6.5 Test Result

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode :	Mode 6

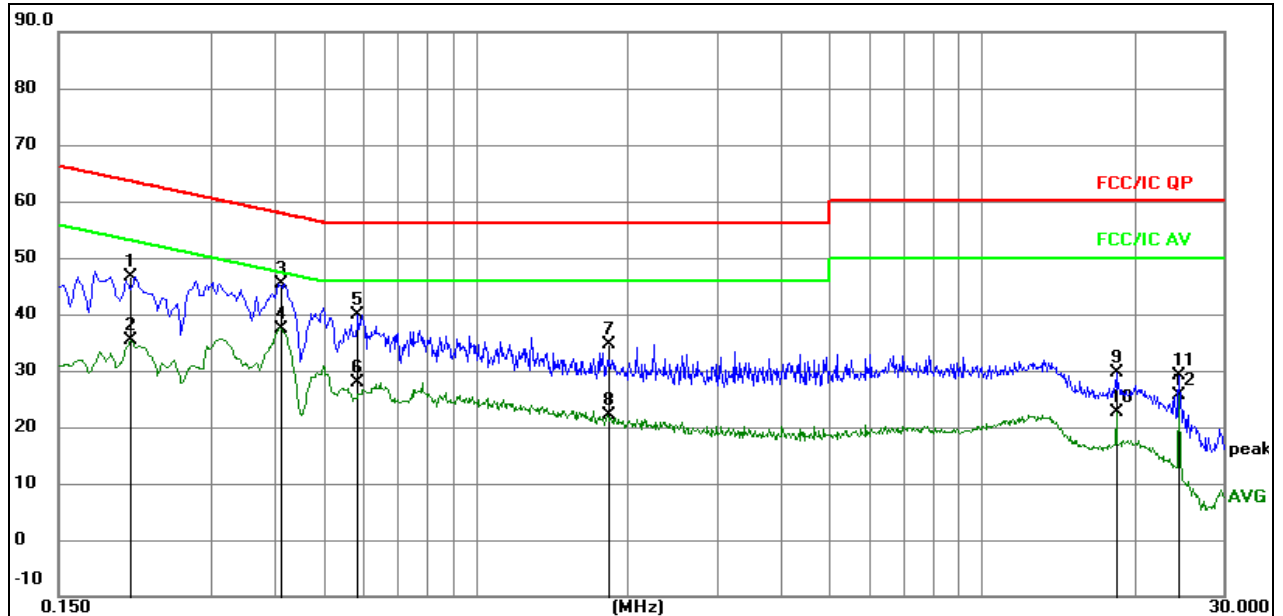


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2445	33.71	9.51	43.22	61.94	-18.72	QP
2		0.2445	21.84	9.51	31.35	51.94	-20.59	AVG
3		0.3615	34.23	9.53	43.76	58.69	-14.93	QP
4	*	0.3615	24.64	9.53	34.17	48.69	-14.52	AVG
5		0.5550	31.44	9.82	41.26	56.00	-14.74	QP
6		0.5550	21.62	9.82	31.44	46.00	-14.56	AVG
7		1.2525	29.30	9.58	38.88	56.00	-17.12	QP
8		1.2525	18.67	9.58	28.25	46.00	-17.75	AVG
9		4.5600	28.49	9.77	38.26	56.00	-17.74	QP
10		4.5600	15.32	9.77	25.09	46.00	-20.91	AVG
11		24.5760	19.58	9.75	29.33	60.00	-30.67	QP
12		24.5760	15.84	9.75	25.59	50.00	-24.41	AVG

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC120V/60Hz	Test Mode :	Mode 6



Remark:

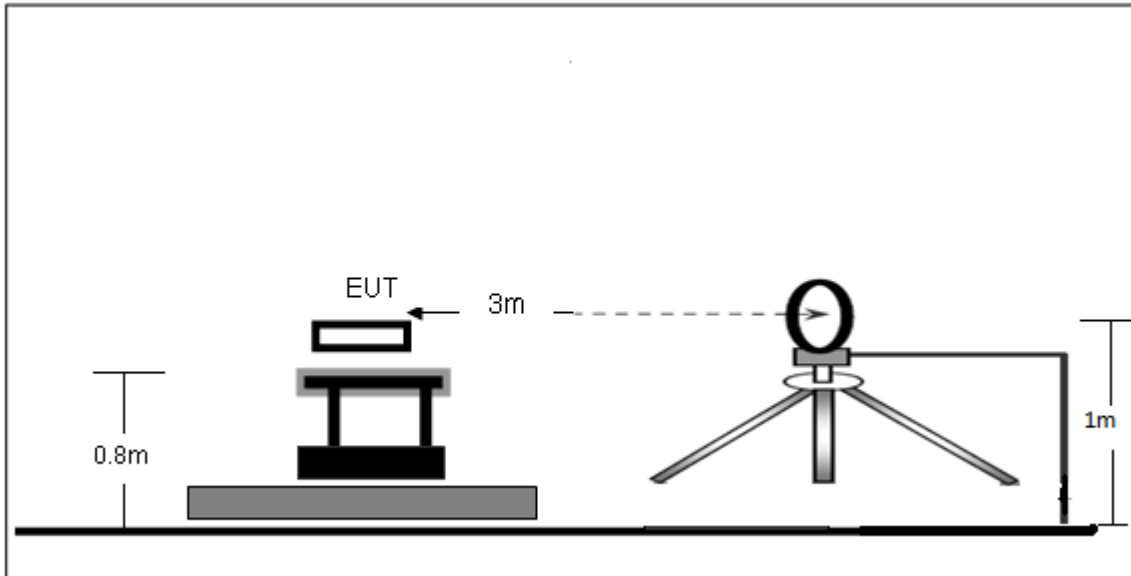
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2083	37.28	9.47	46.75	63.27	-16.52	QP
2		0.2083	25.88	9.47	35.35	53.27	-17.92	AVG
3		0.4105	35.87	9.51	45.38	57.64	-12.26	QP
4	*	0.4105	27.99	9.51	37.50	47.64	-10.14	AVG
5		0.5854	29.96	9.94	39.90	56.00	-16.10	QP
6		0.5854	17.92	9.94	27.86	46.00	-18.14	AVG
7		1.8192	25.10	9.59	34.69	56.00	-21.31	QP
8		1.8192	12.59	9.59	22.18	46.00	-23.82	AVG
9		18.4258	19.89	9.76	29.65	60.00	-30.35	QP
10		18.4258	12.87	9.76	22.63	50.00	-27.37	AVG
11		24.5291	19.33	9.75	29.08	60.00	-30.92	QP
12		24.5291	15.78	9.75	25.53	50.00	-24.47	AVG

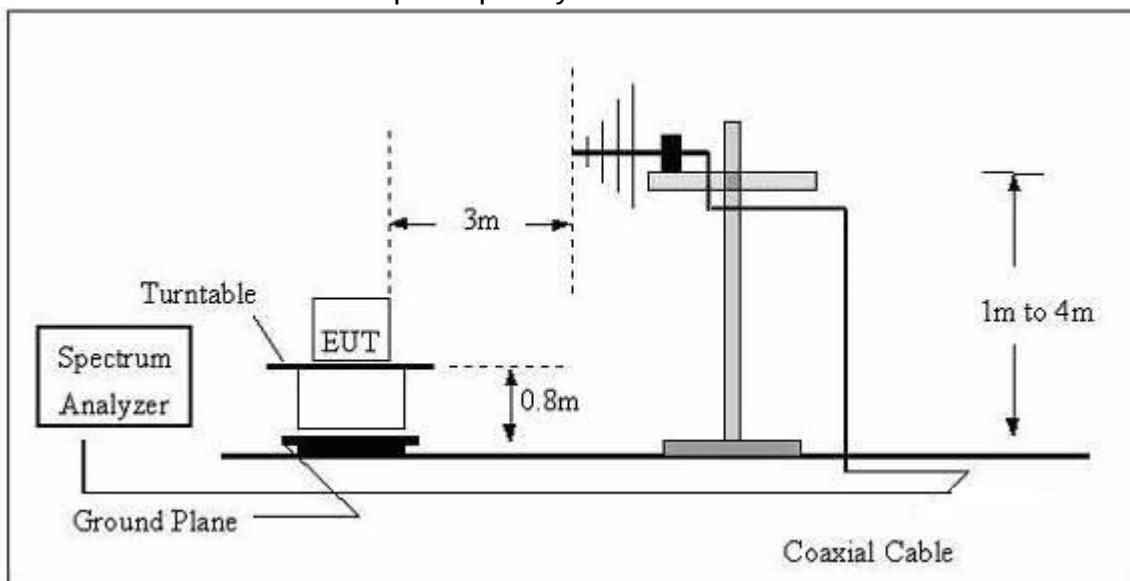
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

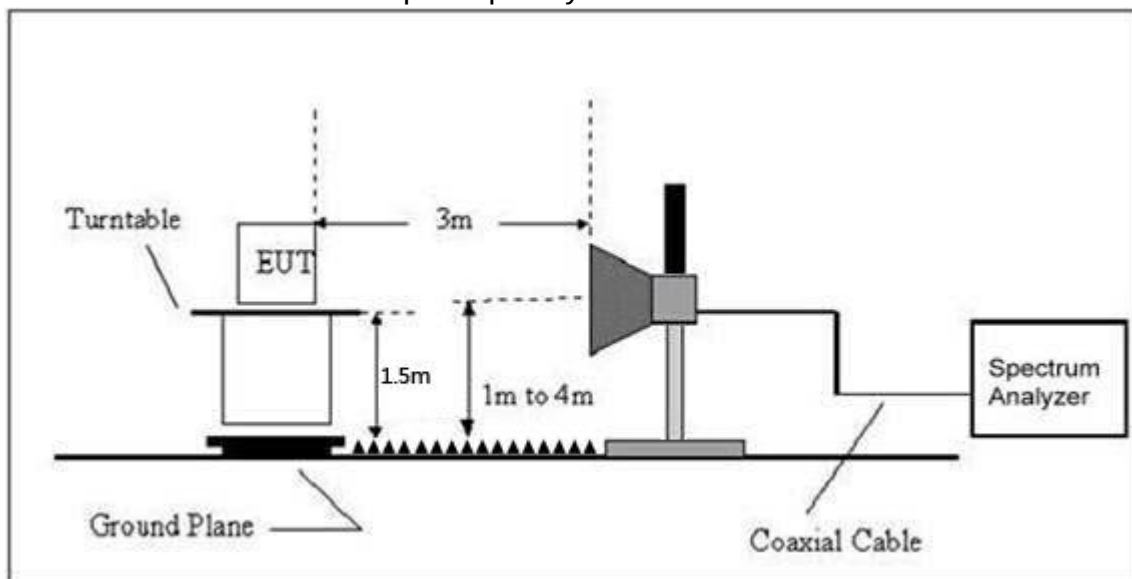
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

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).

7.3 Test procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.

It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
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

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations 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 then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement 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

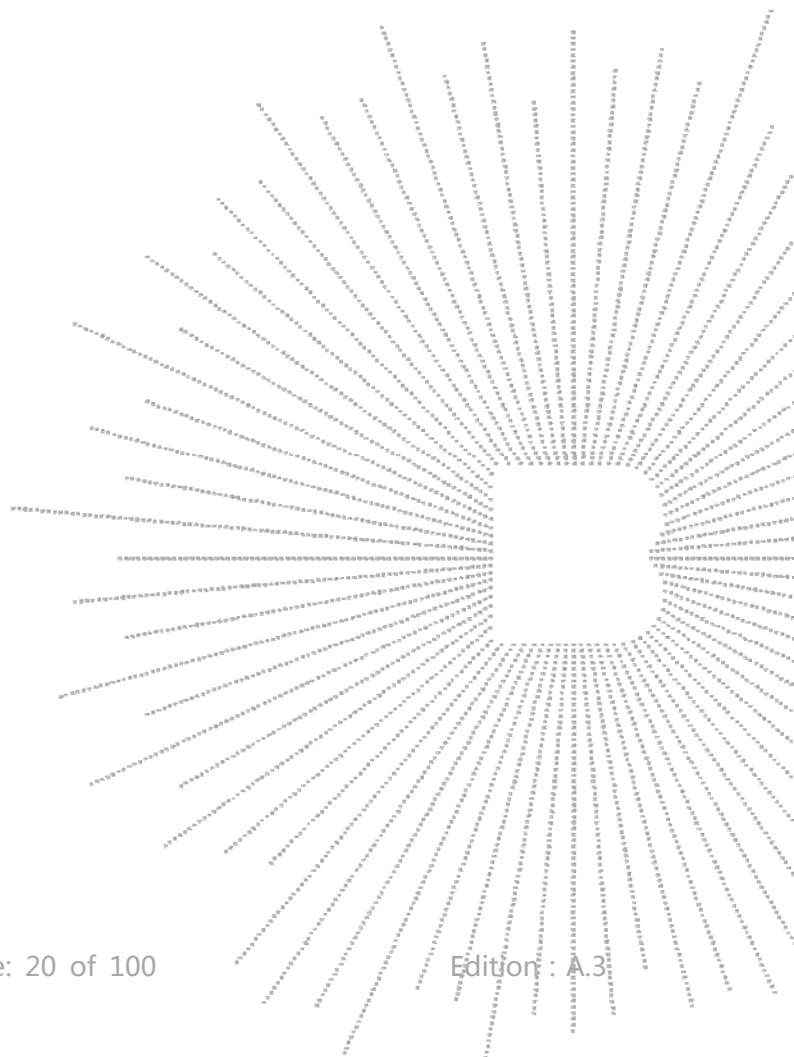
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 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.



7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 6	Polarization :	--

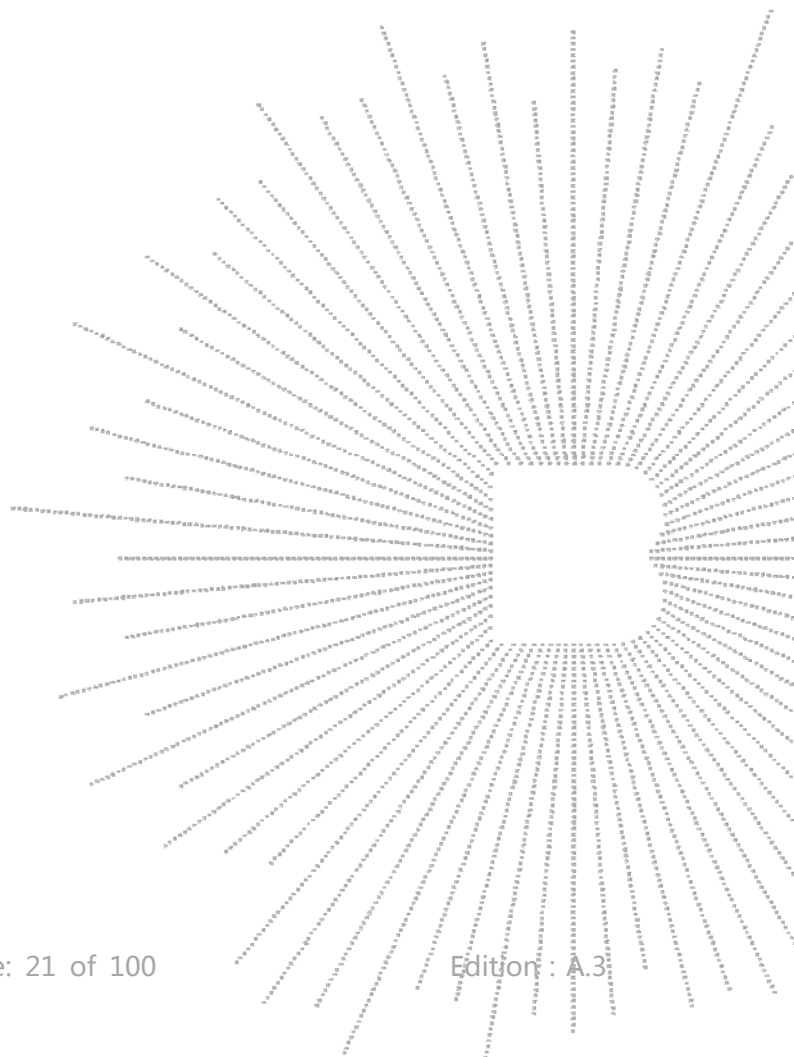
Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

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

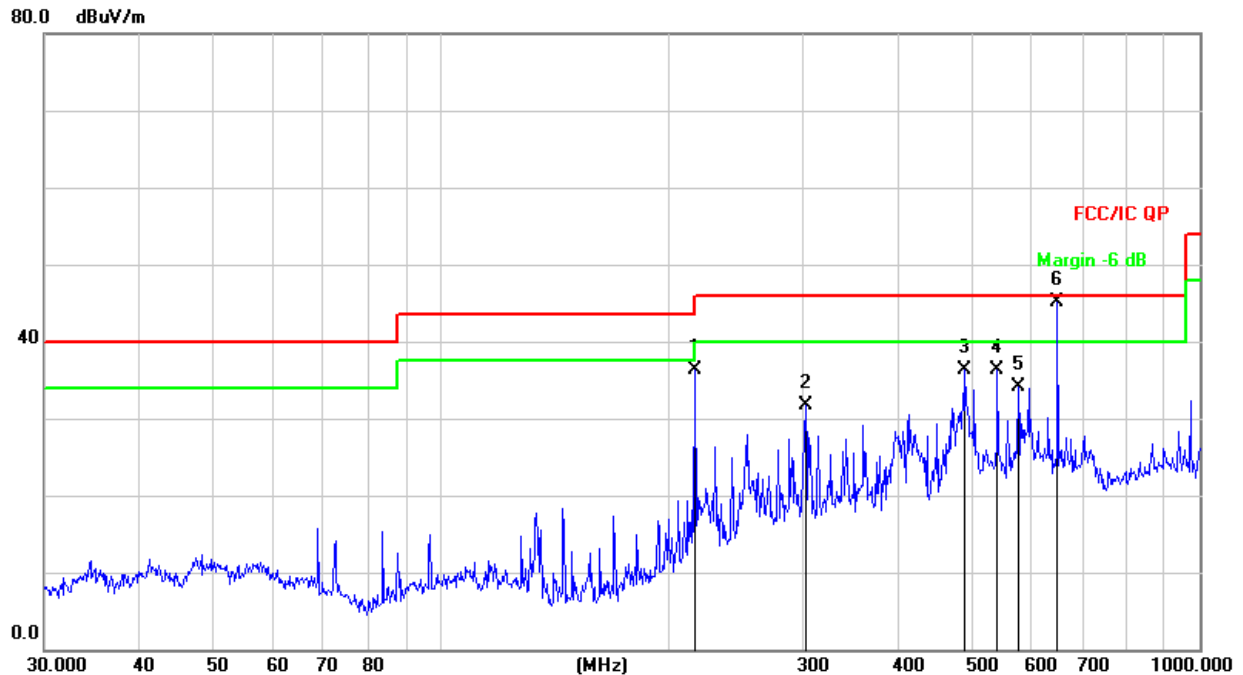
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage :	DC 7.4V
Test Mode :	Mode 6	Polarization :	Horizontal

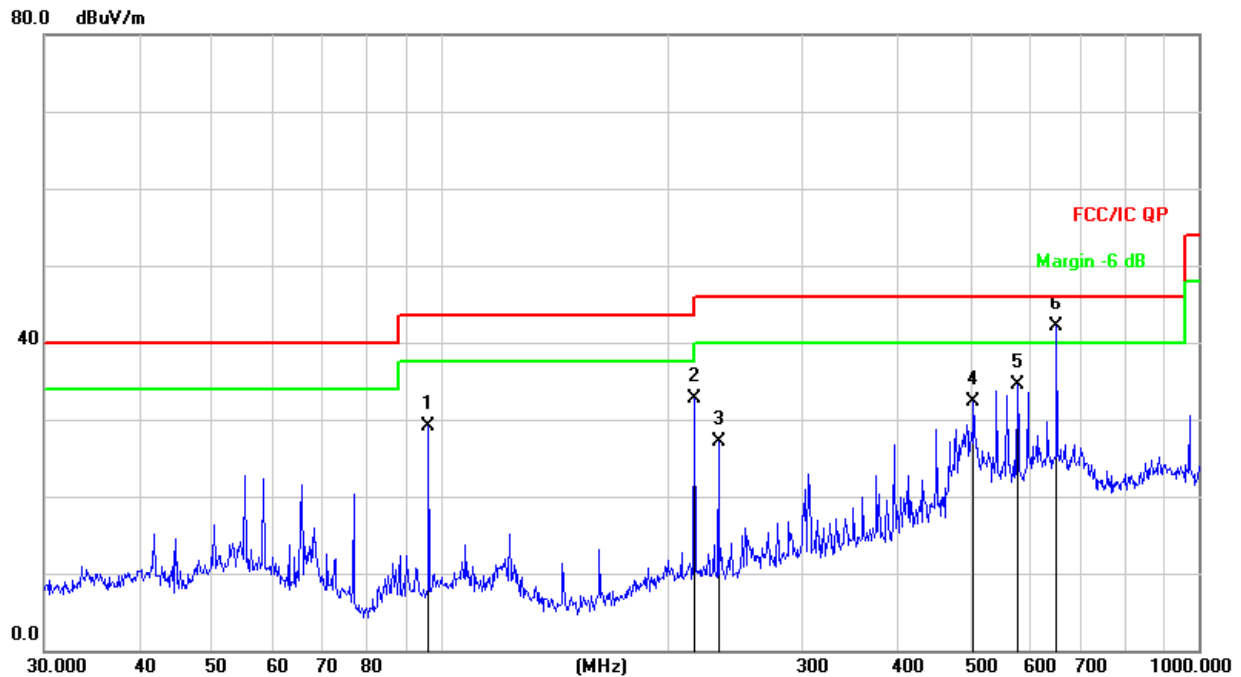


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	216.0240	51.28	-14.93	36.35	46.00	-9.65	QP
2	302.4812	44.06	-12.33	31.73	46.00	-14.27	QP
3	490.7447	44.02	-7.76	36.26	46.00	-9.74	QP
4	541.3725	42.90	-6.53	36.37	46.00	-9.63	QP
5	576.6443	39.78	-5.63	34.15	46.00	-11.85	QP
6 *	649.6597	49.44	-4.33	45.11	46.00	-0.89	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage :	DC 7.4V
Test Mode :	Mode 6	Polarization :	Vertical



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	96.4362	45.26	-16.19	29.07	43.50	-14.43	QP
2	216.0240	47.63	-14.93	32.70	46.00	-13.30	QP
3	232.5318	41.64	-14.59	27.05	46.00	-18.95	QP
4	504.7062	39.81	-7.45	32.36	46.00	-13.64	QP
5	576.6443	40.10	-5.63	34.47	46.00	-11.53	QP
6 *	649.6597	46.36	-4.33	42.03	46.00	-3.97	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.2G) - 802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.078	61.59	5.94	35.40	44.00	58.93	68.20	-9.27	PK
V	4434.078	43.84	5.94	35.40	44.00	41.18	54.00	-12.82	AV
V	10360.084	63.74	8.46	39.75	44.50	67.45	68.20	-0.75	PK
V	10360.084	43.32	8.46	39.75	44.50	47.03	54.00	-6.97	AV
V	15540.128	62.52	10.12	38.80	44.10	67.34	74.00	-6.66	PK
V	15540.128	43.42	10.12	38.80	42.70	49.64	54.00	-4.36	AV
H	4434.124	61.03	5.94	35.18	44.00	58.15	68.20	-10.05	PK
H	4434.124	43.54	5.94	35.18	44.00	40.66	54.00	-13.34	AV
H	10360.006	53.96	8.46	38.71	44.50	56.63	68.20	-11.57	PK
H	10360.006	42.45	8.46	38.71	44.50	45.12	54.00	-8.88	AV
H	15540.095	51.01	10.12	38.38	44.10	55.41	74.00	-18.59	PK
H	15540.095	43.00	10.12	38.38	44.10	47.40	54.00	-6.60	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.142	62.95	6.48	36.35	44.05	61.73	74.00	-12.27	PK
V	4592.142	43.71	6.48	36.35	44.05	42.49	54.00	-11.51	AV
V	10400.081	63.75	8.47	37.88	44.51	65.59	68.20	-2.61	PK
V	10400.081	43.15	8.47	37.88	44.51	44.99	54.00	-9.01	AV
V	15600.054	61.56	10.12	38.80	44.10	66.38	74.00	-7.62	PK
V	15600.054	43.39	10.12	38.80	42.70	49.61	54.00	-4.39	AV
H	4592.054	62.98	6.48	36.37	44.05	61.78	74.00	-12.22	PK
H	4592.054	43.43	6.48	36.37	44.05	42.23	54.00	-11.77	AV
H	10400.074	52.60	8.47	38.64	44.50	55.21	68.20	-12.99	PK
H	10400.074	40.93	8.47	38.64	44.50	43.54	54.00	-10.46	AV
H	15600.068	52.93	10.12	38.38	44.10	57.33	74.00	-16.67	PK
H	15600.068	44.02	10.12	38.38	44.10	48.42	54.00	-5.58	AV
High Channel (5240 MHz)-Above 1G									
V	4739.160	60.80	7.10	37.24	43.50	61.64	74.00	-12.36	PK
V	4739.160	43.72	7.10	37.24	43.50	44.56	54.00	-9.44	AV
V	10480.093	64.26	8.46	37.68	44.50	65.90	68.20	-2.30	PK
V	10480.093	43.72	8.46	37.68	44.50	45.36	54.00	-8.64	AV
V	15720.056	60.02	10.12	38.80	44.10	64.84	74.00	-9.16	PK
V	15720.056	43.72	10.12	38.80	42.70	49.94	54.00	-4.06	AV
H	4739.053	61.16	7.10	37.24	43.50	62.00	74.00	-12.00	PK
H	4739.053	43.77	7.10	37.24	43.50	44.61	54.00	-9.39	AV
H	10480.175	51.47	8.46	38.57	44.50	54.00	68.20	-14.20	PK
H	10480.175	41.06	8.46	38.57	44.50	43.59	54.00	-10.41	AV
H	15720.023	52.01	10.12	38.38	44.10	56.41	74.00	-17.59	PK
H	15720.023	44.90	10.12	38.38	44.10	49.30	54.00	-4.70	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX(5.2G) - 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBUV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.074	60.07	5.94	35.40	44.00	57.41	74.00	-16.59	PK
V	4434.074	43.79	5.94	35.40	44.00	41.13	54.00	-12.87	AV
V	10380.012	62.81	8.46	39.75	44.50	66.52	68.20	-1.68	PK
V	10380.012	43.38	8.46	39.75	44.50	47.09	54.00	-6.91	AV
V	15570.195	62.80	10.12	38.80	44.10	67.62	74.00	-6.38	PK
V	15570.195	43.89	10.12	38.80	42.70	50.11	54.00	-3.89	AV
H	4434.027	60.58	5.94	35.18	44.00	57.70	74.00	-16.30	PK
H	4434.027	43.33	5.94	35.18	44.00	40.45	54.00	-13.55	AV
H	10380.122	50.15	8.46	38.71	44.50	52.82	68.20	-15.38	PK
H	10380.122	40.91	8.46	38.71	44.50	43.58	54.00	-10.42	AV
H	15570.111	51.92	10.12	38.38	44.10	56.32	74.00	-17.68	PK
H	15570.111	42.50	10.12	38.38	44.10	46.90	54.00	-7.10	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.180	63.16	6.48	36.35	44.05	61.94	74.00	-12.06	PK
V	4739.180	43.58	6.48	36.35	44.05	42.36	54.00	-11.64	AV
V	10460.017	64.58	8.47	37.88	44.51	66.42	68.20	-1.78	PK
V	10460.017	43.03	8.47	37.88	44.51	44.87	54.00	-9.13	AV
V	15690.122	60.78	10.12	38.80	44.10	65.60	74.00	-8.40	PK
V	15690.122	43.23	10.12	38.80	42.70	49.45	54.00	-4.55	AV
H	4739.047	63.19	6.48	36.37	44.05	61.99	74.00	-12.01	PK
H	4739.047	43.82	6.48	36.37	44.05	42.62	54.00	-11.38	AV
H	10460.169	54.35	8.47	38.64	44.50	56.96	68.20	-11.24	PK
H	10460.169	42.13	8.47	38.64	44.50	44.74	54.00	-9.26	AV
H	15690.176	54.06	10.12	38.38	44.10	58.46	74.00	-15.54	PK
H	15690.176	44.55	10.12	38.38	44.10	48.95	54.00	-5.05	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBUV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX(5.2G) - 802.11ac-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.071	62.66	5.94	35.40	44.00	60.00	68.20	-8.20	PK
V	4434.071	43.09	5.94	35.40	44.00	40.43	54.00	-13.57	AV
V	10360.092	60.55	8.46	39.75	44.50	64.26	68.20	-3.94	PK
V	10360.092	43.59	8.46	39.75	44.50	47.30	54.00	-6.70	AV
V	15540.149	63.22	10.12	38.80	44.10	68.04	74.00	-5.96	PK
V	15540.149	43.93	10.12	38.80	42.70	50.15	54.00	-3.85	AV
H	4434.056	64.14	5.94	35.18	44.00	61.26	68.20	-6.94	PK
H	4434.056	43.48	5.94	35.18	44.00	40.60	54.00	-13.40	AV
H	10360.026	51.69	8.46	38.71	44.50	54.36	68.20	-13.84	PK
H	10360.026	42.70	8.46	38.71	44.50	45.37	54.00	-8.63	AV
H	15540.140	52.53	10.12	38.38	44.10	56.93	74.00	-17.07	PK
H	15540.140	43.50	10.12	38.38	44.10	47.90	54.00	-6.10	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.114	63.68	6.48	36.35	44.05	62.46	74.00	-11.54	PK
V	4592.114	43.32	6.48	36.35	44.05	42.10	54.00	-11.90	AV
V	10400.120	63.77	8.47	37.88	44.51	65.61	68.20	-2.59	PK
V	10400.120	43.43	8.47	37.88	44.51	45.27	54.00	-8.73	AV
V	15600.183	61.78	10.12	38.80	44.10	66.60	74.00	-7.40	PK
V	15600.183	43.77	10.12	38.80	42.70	49.99	54.00	-4.01	AV
H	4592.037	64.19	6.48	36.37	44.05	62.99	74.00	-11.01	PK
H	4592.037	43.07	6.48	36.37	44.05	41.87	54.00	-12.13	AV
H	10400.190	54.48	8.47	38.64	44.50	57.09	68.20	-11.11	PK
H	10400.190	42.84	8.47	38.64	44.50	45.45	54.00	-8.55	AV
H	15600.019	54.78	10.12	38.38	44.10	59.18	74.00	-14.82	PK
H	15600.019	40.07	10.12	38.38	44.10	44.47	54.00	-9.53	AV
High Channel (5240 MHz)-Above 1G									
V	4739.016	60.36	7.10	37.24	43.50	61.20	74.00	-12.80	PK
V	4739.016	43.82	7.10	37.24	43.50	44.66	54.00	-9.34	AV
V	10480.191	63.58	8.46	37.68	44.50	65.22	68.20	-2.98	PK
V	10480.191	43.87	8.46	37.68	44.50	45.51	54.00	-8.49	AV
V	15720.182	62.10	10.12	38.80	44.10	66.92	74.00	-7.08	PK
V	15720.182	43.22	10.12	38.80	42.70	49.44	54.00	-4.56	AV
H	4739.065	62.52	7.10	37.24	43.50	63.36	74.00	-10.64	PK
H	4739.065	43.53	7.10	37.24	43.50	44.37	54.00	-9.63	AV
H	10480.023	51.20	8.46	38.57	44.50	53.73	68.20	-14.47	PK
H	10480.023	42.73	8.46	38.57	44.50	45.26	54.00	-8.74	AV
H	15720.002	52.60	10.12	38.38	44.10	57.00	74.00	-17.00	PK
H	15720.002	44.65	10.12	38.38	44.10	49.05	54.00	-4.95	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX(5.2G) - 802.11ac-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenn a Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.063	60.52	5.94	35.40	44.00	57.86	74.00	-16.14	PK
V	4434.063	43.01	5.94	35.40	44.00	40.35	54.00	-13.65	AV
V	10380.192	62.09	8.46	39.75	44.50	65.80	68.20	-2.40	PK
V	10380.192	43.66	8.46	39.75	44.50	47.37	54.00	-6.63	AV
V	15570.012	63.85	10.12	38.80	44.10	68.67	74.00	-5.33	PK
V	15570.012	43.23	10.12	38.80	42.70	49.45	54.00	-4.55	AV
H	4434.081	62.60	5.94	35.18	44.00	59.72	74.00	-14.28	PK
H	4434.081	43.74	5.94	35.18	44.00	40.86	54.00	-13.14	AV
H	10380.198	52.79	8.46	38.71	44.50	55.46	68.20	-12.74	PK
H	10380.198	40.71	8.46	38.71	44.50	43.38	54.00	-10.62	AV
H	15570.165	50.90	10.12	38.38	44.10	55.30	74.00	-18.70	PK
H	15570.165	43.59	10.12	38.38	44.10	47.99	54.00	-6.01	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.115	63.67	6.48	36.35	44.05	62.45	74.00	-11.55	PK
V	4739.115	43.38	6.48	36.35	44.05	42.16	54.00	-11.84	AV
V	10460.165	64.24	8.47	37.88	44.51	66.08	68.20	-2.12	PK
V	10460.165	43.14	8.47	37.88	44.51	44.98	54.00	-9.02	AV
V	15690.069	63.55	10.12	38.80	44.10	68.37	74.00	-5.63	PK
V	15690.069	43.66	10.12	38.80	42.70	49.88	54.00	-4.12	AV
H	4739.151	60.12	6.48	36.37	44.05	58.92	74.00	-15.08	PK
H	4739.151	43.29	6.48	36.37	44.05	42.09	54.00	-11.91	AV
H	10460.143	50.88	8.47	38.64	44.50	53.49	68.20	-14.71	PK
H	10460.143	43.97	8.47	38.64	44.50	46.58	54.00	-7.42	AV
H	15690.155	54.99	10.12	38.38	44.10	59.39	74.00	-14.61	PK
H	15690.155	42.41	10.12	38.38	44.10	46.81	54.00	-7.19	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11 AC80
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBUV)	Cable loss (dB)	Antenn a Factor dB/m	Preamp Factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector Type
(5210 MHz)-Above 1G									
V	4434.098	61.27	5.94	35.40	44.00	58.61	74.00	-15.39	PK
V	4434.098	43.42	5.94	35.40	44.00	40.76	54.00	-13.24	AV
V	10420.024	60.97	8.46	39.75	44.50	64.68	68.20	-3.52	PK
V	10420.024	43.15	8.46	39.75	44.50	46.86	54.00	-7.14	AV
V	15630.044	63.96	10.12	38.80	44.10	68.78	74.00	-5.22	PK
V	15630.044	43.53	10.12	38.80	42.70	49.75	54.00	-4.25	AV
H	4434.085	64.75	5.94	35.18	44.00	61.87	74.00	-12.13	PK
H	4434.085	43.35	5.94	35.18	44.00	40.47	54.00	-13.53	AV
H	10420.086	51.54	8.46	38.71	44.50	54.21	68.20	-13.99	PK
H	10420.086	41.19	8.46	38.71	44.50	43.86	54.00	-10.14	AV
H	15630.033	51.10	10.12	38.38	44.10	55.50	74.00	-18.50	PK
H	15630.033	41.78	10.12	38.38	44.10	46.18	54.00	-7.82	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBUV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) --802.11n-HT20
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenn a Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.061	63.67	5.94	35.40	44.00	61.01	74.00	-12.99	PK
V	4679.061	43.85	5.94	35.40	44.00	41.19	54.00	-12.81	AV
V	11490.151	62.96	8.46	39.75	44.50	66.67	68.20	-1.53	PK
V	11490.151	43.10	8.46	39.75	44.50	46.81	54.00	-7.19	AV
V	17235.189	61.06	10.12	38.80	44.10	65.88	74.00	-8.12	PK
V	17235.189	43.28	10.12	38.80	42.70	49.50	54.00	-4.50	AV
H	4679.176	61.66	5.94	35.18	44.00	58.78	74.00	-15.22	PK
H	4679.176	43.69	5.94	35.18	44.00	40.81	54.00	-13.19	AV
H	11490.015	50.17	8.46	38.71	44.50	52.84	68.20	-15.36	PK
H	11490.015	42.06	8.46	38.71	44.50	44.73	54.00	-9.27	AV
H	17235.065	54.05	10.12	38.38	44.10	58.45	74.00	-15.55	PK
H	17235.065	44.26	10.12	38.38	44.10	48.66	54.00	-5.34	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.079	61.10	6.48	36.35	44.05	59.88	74.00	-14.12	PK
V	4592.079	43.80	6.48	36.35	44.05	42.58	54.00	-11.42	AV
V	11570.087	62.41	8.47	37.88	44.51	64.25	68.20	-3.95	PK
V	11570.087	43.17	8.47	37.88	44.51	45.01	54.00	-8.99	AV
V	17355.001	62.19	10.12	38.80	44.10	67.01	74.00	-6.99	PK
V	17355.001	43.65	10.12	38.80	42.70	49.87	54.00	-4.13	AV
H	4592.019	61.99	6.48	36.37	44.05	60.79	74.00	-13.21	PK
H	4592.019	43.73	6.48	36.37	44.05	42.53	54.00	-11.47	AV
H	11570.039	51.32	8.47	38.64	44.50	53.93	68.20	-14.27	PK
H	11570.039	42.03	8.47	38.64	44.50	44.64	54.00	-9.36	AV
H	17355.047	50.44	10.12	38.38	44.10	54.84	74.00	-19.16	PK
H	17355.047	42.96	10.12	38.38	44.10	47.36	54.00	-6.64	AV
High Channel (5825 MHz)-Above 1G									
V	6039.129	61.01	7.10	37.24	43.50	61.85	68.20	-6.35	PK
V	6039.129	43.95	7.10	37.24	43.50	44.79	54.00	-9.21	AV
V	11650.018	64.68	8.46	37.68	44.50	66.32	74.00	-7.68	PK
V	11650.018	43.89	8.46	37.68	44.50	45.53	54.00	-8.47	AV
V	17475.052	61.54	10.12	38.80	44.10	66.36	68.20	-1.84	PK
V	17475.052	43.92	10.12	38.80	42.70	50.14	54.00	-3.86	AV
H	6039.179	63.67	7.10	37.24	43.50	64.51	68.20	-3.69	PK
H	6039.179	43.52	7.10	37.24	43.50	44.36	54.00	-9.64	AV
H	11650.089	53.26	8.46	38.57	44.50	55.79	74.00	-18.21	PK
H	11650.089	44.21	8.46	38.57	44.50	46.74	54.00	-7.26	AV
H	17475.003	53.66	10.12	38.38	44.10	58.06	68.20	-10.14	PK
H	17475.003	41.79	10.12	38.38	44.10	46.19	54.00	-7.81	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11n-HT40
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Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenn a Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.026	64.39	5.94	35.40	44.00	61.73	74.00	-12.27	PK
V	4679.026	43.56	5.94	35.40	44.00	40.90	54.00	-13.10	AV
V	11510.078	61.47	8.46	39.75	44.50	65.18	68.20	-3.02	PK
V	11510.078	43.87	8.46	39.75	44.50	47.58	54.00	-6.42	AV
V	17265.008	60.02	10.12	38.80	44.10	64.84	74.00	-9.16	PK
V	17265.008	43.13	10.12	38.80	42.70	49.35	54.00	-4.65	AV
H	4679.043	60.54	5.94	35.18	44.00	57.66	74.00	-16.34	PK
H	4679.043	43.70	5.94	35.18	44.00	40.82	54.00	-13.18	AV
H	11510.062	52.22	8.46	38.71	44.50	54.89	68.20	-13.31	PK
H	11510.062	42.86	8.46	38.71	44.50	45.53	54.00	-8.47	AV
H	17265.167	54.34	10.12	38.38	44.10	58.74	74.00	-15.26	PK
H	17265.167	44.76	10.12	38.38	44.10	49.16	54.00	-4.84	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.110	62.24	6.48	36.35	44.05	61.02	68.20	-7.18	PK
V	6039.110	43.87	6.48	36.35	44.05	42.65	54.00	-11.35	AV
V	11590.131	62.62	8.47	37.88	44.51	64.46	74.00	-9.54	PK
V	11590.131	43.81	8.47	37.88	44.51	45.65	54.00	-8.35	AV
V	17385.144	60.98	10.12	38.80	44.10	65.80	68.20	-2.40	PK
V	17385.144	44.00	10.12	38.80	42.70	50.22	54.00	-3.78	AV
H	6039.046	64.93	6.48	36.37	44.05	63.73	68.20	-4.47	PK
H	6039.046	43.62	6.48	36.37	44.05	42.42	54.00	-11.58	AV
H	11590.135	52.41	8.47	38.64	44.50	55.02	74.00	-18.98	PK
H	11590.135	41.02	8.47	38.64	44.50	43.63	54.00	-10.37	AV
H	17385.121	51.71	10.12	38.38	44.10	56.11	68.20	-12.09	PK
H	17385.121	42.35	10.12	38.38	44.10	46.75	54.00	-7.25	AV

Note: PK value is lower than the Average value limit, So average didn't record.

The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

The Worst mode is Antenna A.