

Supplemental “Transmit Simultaneously” Test Report

Report No.: RF200522E04-5

FCC ID: TX2-RTL8852AE

Test Model: RTL8852AE

Received Date: May 22, 2020

Test Date: Sep. 02 to 10, 2020

Issued Date: Sep. 24, 2020

Applicant: Realtek Semiconductor Corp.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF200522E04-5	Original release.	Sep. 24, 2020

1 Certificate of Conformity

Product: 11ax RTL8852AE Combo module

Brand: REALTEK

Test Model: RTL8852AE

Sample Status: ENGINEERING SAMPLE

Applicant: Realtek Semiconductor Corp.

Test Date: Sep. 02 to 10, 2020

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

47 CFR FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** Sep. 24, 2020
Vivian Huang / Specialist

Approved by : Clark Lin , **Date:** Sep. 24, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

FCC Part 15, Subpart C, E (SECTION 15.247, 15.407)			
FCC Clause	Test Item	Result	Remarks
15.207 15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -14.72dB at 0.17794MHz.
15.205 / 15.209 / 15.247(d) 15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -4.5dB at 104.00MHz, 103.70MHz and 2483.50MHz.

Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.1 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	11ax RTL8852AE Combo module
Brand	REALTEK
Test Model	RTL8852AE
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	DC 3.3V from host equipment
Modulation Type	WLAN: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode BT-EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK BT-LE: GFSK
Modulation Technology	WLAN: DSSS, OFDM, OFDMA BT-EDR: FHSS BT-LE: DTS
Operating Frequency	WLAN: 2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.18 ~ 5.32GHz, 5.50GHz ~ 5.72GHz, 5.745 ~ 5.825GHz BT-EDR: 2.402 ~ 2.480 GHz BT-LE: 2.402 ~ 2.480 GHz
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. The EUT has below HW SKU configuration, as below table:

SKU No.	Interface	Description
1	PCIe + USB	Single antenna port
2	PCIe + USB	Dual antenna port
3	PCIe + UART	Dual antenna port

Note: From the above HW SKUs, **SKU No.: 3** was selected as representative model for the test and its data was recorded in this report.

2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
2	WLAN 2.4GHz	WLAN 5GHz	-
3	WLAN 5GHz	Bluetooth	-

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The antennas provided to the EUT, please refer to the following table:

Antenna Set	Chain NO.	Brand	Model	Antenna Gain (dBi)	Frequency range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain 0	LYNwave	ALA110-222050-300011	3.5	2.4~2.5	PIFA	i-pex(MHF)	300
				5	5.15~5.85			
	Chain 1	LYNwave	ALA110-222050-300011	3.5	2.4~2.5	PIFA	i-pex(MHF)	300
				5	5.15~5.85			
2	Chain 0	PSA	RFDPA171320EMLB301	3.14	2.4~2.5	Dipole	i-pex(MHF)	200
				5	5.15~5.85			
	Chain 1	PSA	RFDPA171320EMLB301	3.14	2.4~2.5	Dipole	i-pex(MHF)	200
				5	5.15~5.85			

Note:

1. From the above transmission chains, the transmission on **Chain 0** for 1TX mode was selected as representative model for the test. Therefore only the test data of the mode was recorded in this report.
2. The Bluetooth technology will fix transmission on Chain 1.
3. Max. gain was selected for the final test, except for the radiated emissions test.

4. The EUT incorporates a MIMO function.

2.4GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	2TX/1TX Diversity	2RX
802.11g	2TX/1TX Diversity	2RX
802.11n (HT20)	2TX/1TX Diversity	2RX
802.11n (HT40)	2TX/1TX Diversity	2RX
VHT20	2TX/1TX Diversity	2RX
VHT40	2TX/1TX Diversity	2RX
802.11ax (HE20)	2TX/1TX Diversity	2RX
802.11ax (HE40)	2TX/1TX Diversity	2RX
5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	2TX/1TX Diversity	2RX
802.11n (HT20)	2TX/1TX Diversity	2RX
802.11n (HT40)	2TX/1TX Diversity	2RX
802.11ac (VHT20)	2TX/1TX Diversity	2RX
802.11ac (VHT40)	2TX/1TX Diversity	2RX
802.11ac (VHT80)	2TX/1TX Diversity	2RX
802.11ax (HE20)	2TX/1TX Diversity	2RX
802.11ax (HE40)	2TX/1TX Diversity	2RX
802.11ax (HE80)	2TX/1TX Diversity	2RX

Note:

1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

6. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.1.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	OB	
-	√	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

OB: Conducted Out-Band Emission Measurement

Note: 1. The EUT's PIFA antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.

2. For 20MHz bandwidth, 40MHz bandwidth and 80MHz bandwidth of RU mode, the worst case was found in 20MHz bandwidth. Therefore only the test data of the mode was recorded in this report.

Radiated Emission Test (Above 1GHz):

☒ Following channel(s) was (were) selected for the final test as listed below.

Configure Mode	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
1	802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
2	802.11ax (RU52) (S0, 1TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
3	802.11ax (RU106) (S0&1, 2TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
4	802.11ax (RU52) (S0, 1TX) + 11g (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 13	6	OFDM	BPSK
5	802.11ax (RU52) (S1, 1TX) + 11g (S0, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 13	6	OFDM	BPSK
6	11g (S0, 1TX) + 802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	1 to 13	6	OFDM	BPSK
		36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK

Radiated Emission Test (Below 1GHz):
☒ Following channel(s) was (were) selected for the final test as listed below.

Configure Mode	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
1	802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
2	802.11ax (RU52) (S0, 1TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
3	802.11ax (RU106) (S0&1, 2TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
4	802.11ax (RU52) (S0, 1TX) + 11g (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 13	6	OFDM	BPSK
5	802.11ax (RU52) (S1, 1TX) + 11g (S0, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 13	6	OFDM	BPSK
6	11g (S0, 1TX) + 802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	1 to 13	6	OFDM	BPSK
		36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK

Power Line Conducted Emission Test:
☒ Following channel(s) was (were) selected for the final test as listed below.

Configure Mode	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
1	802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
2	802.11ax (RU52) (S0, 1TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
3	802.11ax (RU106) (S0&1, 2TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
4	802.11ax (RU52) (S0, 1TX) + 11g (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 13	6	OFDM	BPSK
5	802.11ax (RU52) (S1, 1TX) + 11g (S0, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 13	6	OFDM	BPSK
6	11g (S0, 1TX) + 802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	1 to 13	6	OFDM	BPSK
		36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK

Conducted Out-Band Emission Measurement:

☒ Following channel(s) was (were) selected for the final test as listed below.

Configure Mode	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
3	802.11ax (RU106) (S0&1, 2TX) + BT-LE (S1, 1TX)	36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK
6	11g (S0, 1TX) + 802.11ax (RU52) (S1, 1TX) + BT-LE (S1, 1TX)	1 to 13	6	OFDM	BPSK
		36 to 64 100 to 144 149 to 165	157	OFDMA	BPSK
		1 to 38	19	-	GFSK

Test Condition:

Applicable To	Environmental Conditions	Input Power (system)	Tested By
RE≥1G	25deg. C, 75%RH	120Vac, 60Hz	Kevin Ko
RE<1G	25deg. C, 75%RH	120Vac, 60Hz	Kevin Ko
PLC	25deg. C, 75%RH	120Vac, 60Hz	Sampon Chen
OB	25deg. C, 60%RH	120Vac, 60Hz	Kevin Ko

3.2 Description of Support Units

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.

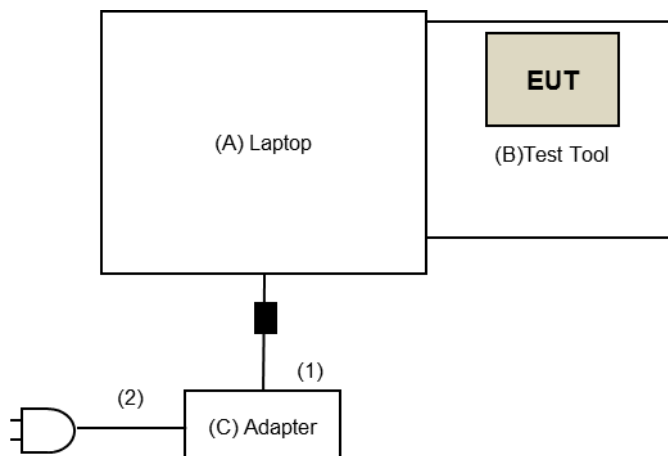
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	Latitude 5490	4LFTNV2	NA	Provided by Lab
B.	Test Tool	Realtek	NA	NA	NA	Supplied by client
C.	Adapter	DELL	FA65NE0-00	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.6	No	1	Provided by Lab
2.	AC Cable	1	1	No	0	Provided by Lab

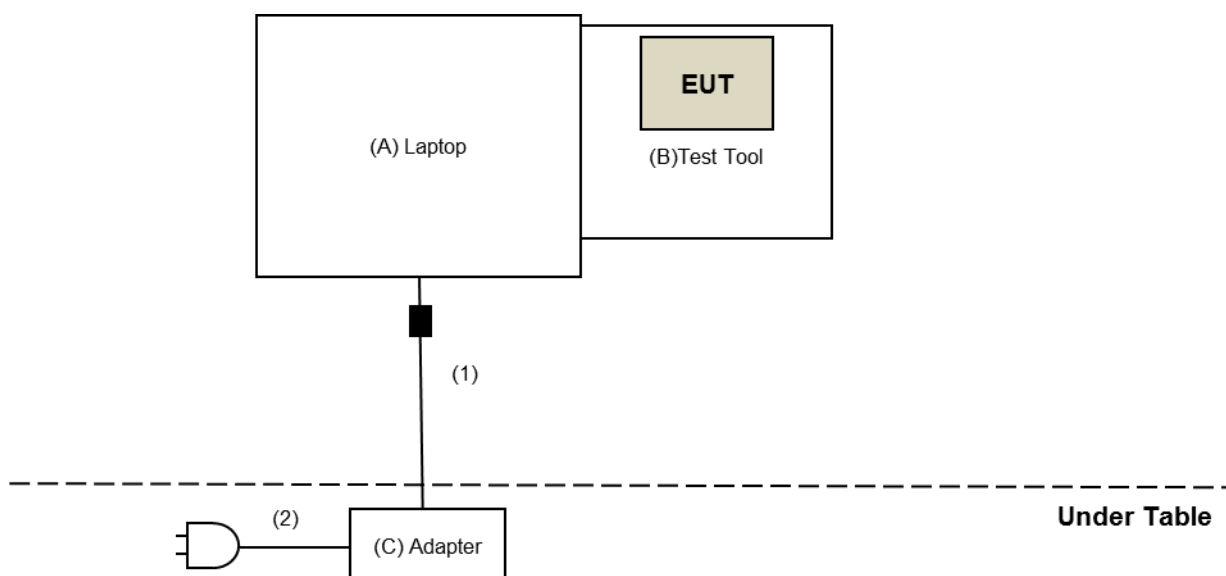
Note: The core(s) is(are) originally attached to the cable(s).

3.2.1 Configuration of System under Test

For Conducted Emissions test:



For Radiated Emissions test:



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/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

Note:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBuV/m)	AV:54 (dBuV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBuV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESR7	102026	Apr. 22, 2020	Apr. 21, 2021
Spectrum Analyzer Keysight	N9030B	MY57141948	May 22, 2020	May 21, 2021
Pre-Amplifier EMCi	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier EMCi	EMC330N	980538	Apr. 28, 2020	Apr. 27, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB9168	9168-0842	Nov. 08, 2019	Nov. 07, 2020
RF Cable	8D	966-5-1	Apr. 29, 2020	Apr. 28, 2021
RF Cable	8D	966-5-2	Apr. 29, 2020	Apr. 28, 2021
RF Cable	8D	966-5-3	Apr. 29, 2020	Apr. 28, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	Jan. 14, 2020	Jan. 13, 2021
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-1819	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMCi	EMC12630SE	980509	Apr. 29, 2020	Apr. 28, 2021
RF Cable EMCi	EMC104-SM-SM-1500	180503	Apr. 29, 2020	Apr. 28, 2021
RF Cable EMCi	EMC104-SM-SM-2000	180501	Apr. 29, 2020	Apr. 28, 2021
RF Cable EMCi	EMC104-SM-SM-6000	180506	Apr. 29, 2020	Apr. 28, 2021
Pre-Amplifier EMCi	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 5.
3. Tested Date: Sep. 10, 2020

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

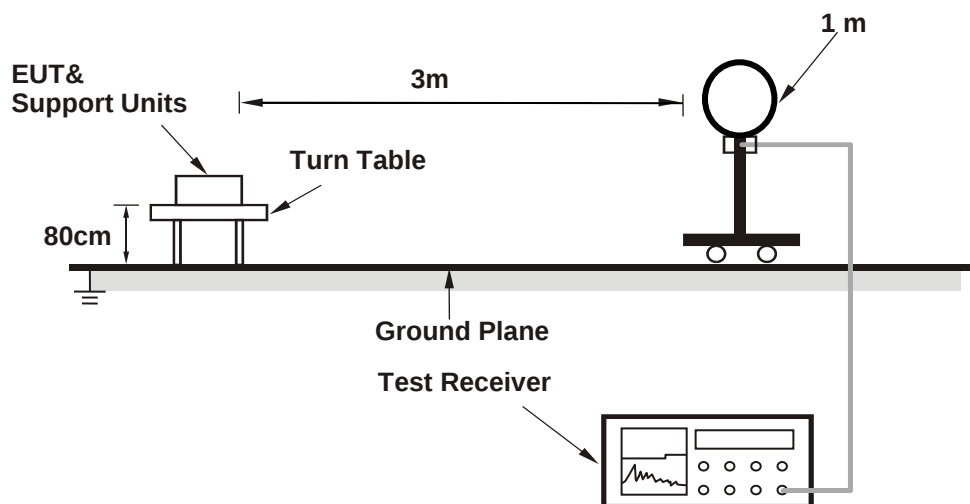
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

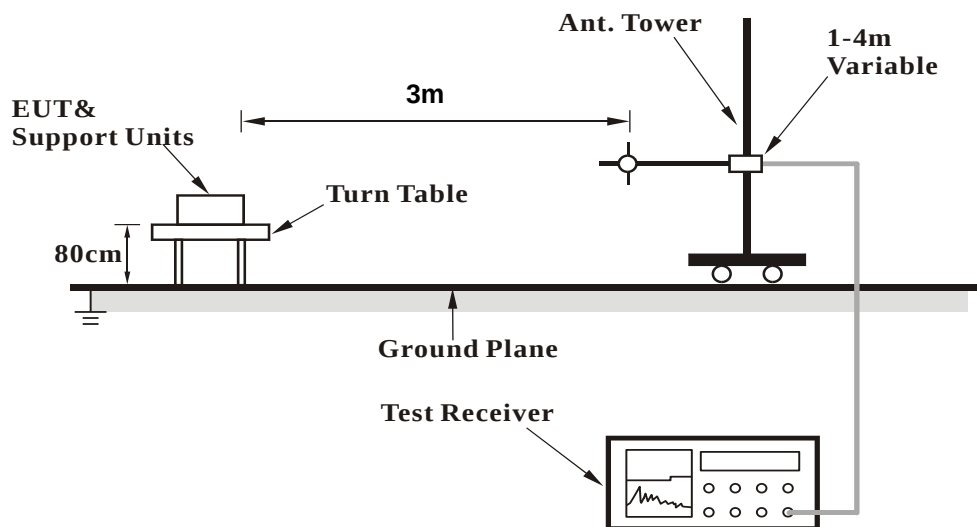
No deviation.

4.1.5 Test Setup

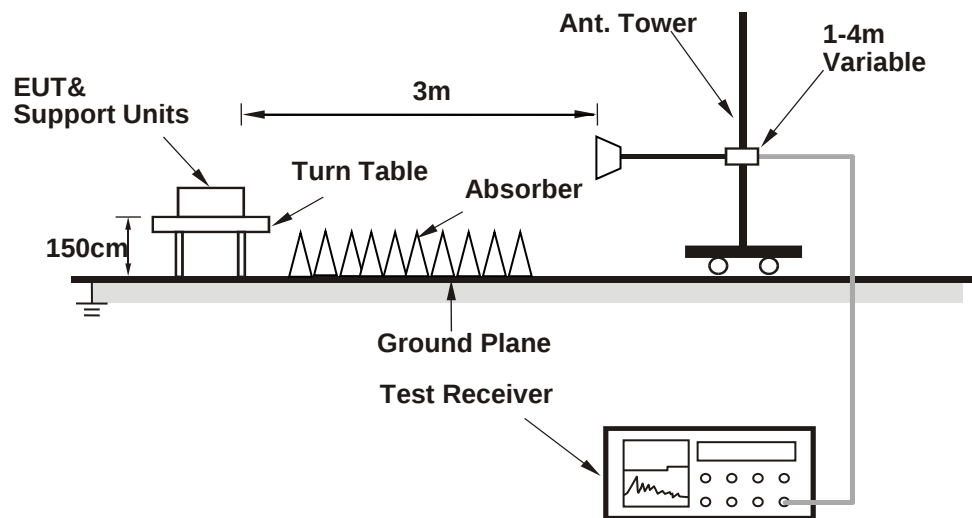
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Controlling software (WLAN: RTL8852A MP Toolkit V1.0.21, Bluetooth: RF test tool.exe (5.3.1.42)) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results (Mode 1)

Dipole Antenna

Above 1GHz Data:

FREQUENCY RANGE	1GHz ~ 40GHz	DETECTOR FUNCTION	Peak (PK) Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	47.2 PK	74.0	-26.8	2.99 H	55	50.3	-3.1
2	2390.00	34.3 AV	54.0	-19.7	2.99 H	55	37.4	-3.1
3	*2440.00	99.0 PK			2.99 H	55	102.0	-3.0
4	*2440.00	93.6 AV			2.99 H	55	96.6	-3.0
5	2483.50	46.0 PK	74.0	-28.0	2.99 H	55	49.1	-3.1
6	2483.50	34.5 AV	54.0	-19.5	2.99 H	55	37.6	-3.1
7	4880.00	44.7 PK	74.0	-29.3	1.68 H	181	43.8	0.9
8	4880.00	38.0 AV	54.0	-16.0	1.68 H	181	37.1	0.9
9	*5785.00	113.8 PK			2.42 H	179	111.8	2.0
10	*5785.00	101.9 AV			2.42 H	179	99.9	2.0
11	7320.00	45.1 PK	74.0	-28.9	1.62 H	72	38.1	7.0
12	7320.00	32.8 AV	54.0	-21.2	1.62 H	72	25.8	7.0
13	11570.00	48.7 PK	74.0	-25.3	3.23 H	2	35.8	12.9
14	11570.00	39.0 AV	54.0	-15.0	3.23 H	2	26.1	12.9
15	#17355.00	55.8 PK	68.2	-12.4	1.29 H	7	39.0	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.1 PK	74.0	-24.9	1.19 V	113	52.2	-3.1
2	2390.00	35.2 AV	54.0	-18.8	1.19 V	113	38.3	-3.1
3	*2440.00	106.3 PK			1.19 V	113	109.3	-3.0
4	*2440.00	102.3 AV			1.19 V	113	105.3	-3.0
5	2483.50	47.6 PK	74.0	-26.4	1.19 V	113	50.7	-3.1
6	2483.50	34.8 AV	54.0	-19.2	1.19 V	113	37.9	-3.1
7	4880.00	44.8 PK	74.0	-29.2	1.47 V	29	43.9	0.9
8	4880.00	37.5 AV	54.0	-16.5	1.47 V	29	36.6	0.9
9	*5785.00	110.1 PK			1.14 V	295	108.1	2.0
10	*5785.00	96.6 AV			1.14 V	295	94.6	2.0
11	7320.00	45.0 PK	74.0	-29.0	1.44 V	41	38.0	7.0
12	7320.00	32.5 AV	54.0	-21.5	1.44 V	41	25.5	7.0
13	11570.00	49.2 PK	74.0	-24.8	1.42 V	196	36.3	12.9
14	11570.00	40.1 AV	54.0	-13.9	1.42 V	196	27.2	12.9
15	#17355.00	56.1 PK	68.2	-12.1	1.43 V	50	39.3	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

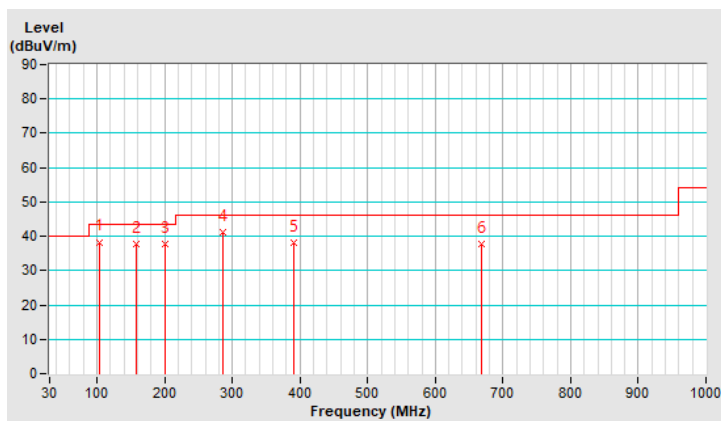
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	103.00	38.3 QP	43.5	-5.2	2.11 H	330	54.9	-16.6
2	158.80	37.9 QP	43.5	-5.6	1.69 H	222	50.4	-12.5
3	200.00	37.7 QP	43.5	-5.8	1.08 H	231	53.8	-16.1
4	286.50	41.0 QP	46.0	-5.0	1.19 H	356	53.2	-12.2
5	390.30	38.2 QP	46.0	-7.8	1.07 H	163	48.1	-9.9
6	667.30	37.6 QP	46.0	-8.4	1.19 H	234	41.7	-4.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

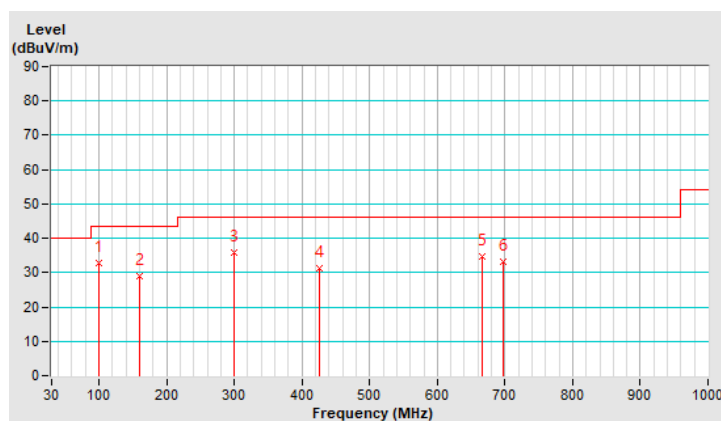


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.70	32.8 QP	43.5	-10.7	1.64 V	100	49.9	-17.1
2	159.20	29.0 QP	43.5	-14.5	2.06 V	104	41.5	-12.5
3	299.20	35.7 QP	46.0	-10.3	1.71 V	278	47.7	-12.0
4	425.00	31.1 QP	46.0	-14.9	1.20 V	320	39.9	-8.8
5	666.90	34.8 QP	46.0	-11.2	1.18 V	313	38.9	-4.1
6	697.10	33.3 QP	46.0	-12.7	1.41 V	232	36.9	-3.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



PIFA Antenna

Above 1GHz Data:

FREQUENCY RANGE	1GHz ~ 40GHz	DETECTOR FUNCTION	Peak (PK) Average (AV)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	46.7 PK	74.0	-27.3	2.93 H	67	49.8	-3.1
2	2390.00	34.0 AV	54.0	-20.0	2.93 H	67	37.1	-3.1
3	*2440.00	100.1 PK			2.93 H	67	103.1	-3.0
4	*2440.00	96.0 AV			2.93 H	67	99.0	-3.0
5	2483.50	46.3 PK	74.0	-27.7	2.93 H	67	49.4	-3.1
6	2483.50	34.6 AV	54.0	-19.4	2.93 H	67	37.7	-3.1
7	4880.00	45.0 PK	74.0	-29.0	1.73 H	193	44.1	0.9
8	4880.00	38.5 AV	54.0	-15.5	1.73 H	193	37.6	0.9
9	*5785.00	115.1 PK			2.39 H	177	113.1	2.0
10	*5785.00	103.8 AV			2.39 H	177	101.8	2.0
11	7320.00	45.1 PK	74.0	-28.9	1.61 H	60	38.1	7.0
12	7320.00	32.5 AV	54.0	-21.5	1.61 H	60	25.5	7.0
13	11570.00	48.9 PK	74.0	-25.1	3.22 H	9	36.0	12.9
14	11570.00	39.1 AV	54.0	-14.9	3.22 H	9	26.2	12.9
15	#17355.00	56.0 PK	68.2	-12.2	1.29 H	23	39.2	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	48.8 PK	74.0	-25.2	1.15 V	107	51.9	-3.1
2	2390.00	35.0 AV	54.0	-19.0	1.15 V	107	38.1	-3.1
3	*2440.00	108.3 PK			1.15 V	107	111.3	-3.0
4	*2440.00	104.2 AV			1.15 V	107	107.2	-3.0
5	2483.50	47.4 PK	74.0	-26.6	1.15 V	107	50.5	-3.1
6	2483.50	34.3 AV	54.0	-19.7	1.15 V	107	37.4	-3.1
7	4880.00	44.8 PK	74.0	-29.2	1.45 V	14	43.9	0.9
8	4880.00	37.5 AV	54.0	-16.5	1.45 V	14	36.6	0.9
9	*5785.00	111.7 PK			1.19 V	292	109.7	2.0
10	*5785.00	98.2 AV			1.19 V	292	96.2	2.0
11	7320.00	44.6 PK	74.0	-29.4	1.45 V	38	37.6	7.0
12	7320.00	32.2 AV	54.0	-21.8	1.45 V	38	25.2	7.0
13	11570.00	49.4 PK	74.0	-24.6	1.46 V	193	36.5	12.9
14	11570.00	40.1 AV	54.0	-13.9	1.46 V	193	27.2	12.9
15	#17355.00	55.8 PK	68.2	-12.4	1.38 V	48	39.0	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

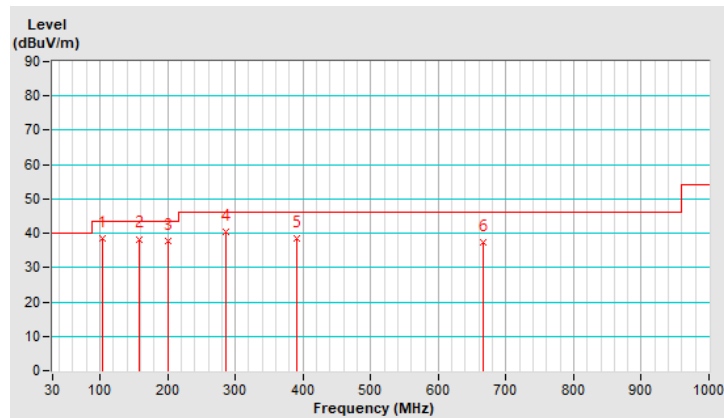
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	103.60	38.6 QP	43.5	-4.9	2.08 H	333	55.1	-16.5
2	158.90	38.3 QP	43.5	-5.2	1.73 H	236	50.8	-12.5
3	199.90	37.7 QP	43.5	-5.8	1.07 H	234	53.8	-16.1
4	286.20	40.4 QP	46.0	-5.6	1.16 H	360	52.6	-12.2
5	390.60	38.4 QP	46.0	-7.6	1.05 H	150	48.3	-9.9
6	666.70	37.3 QP	46.0	-8.7	1.17 H	250	41.4	-4.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

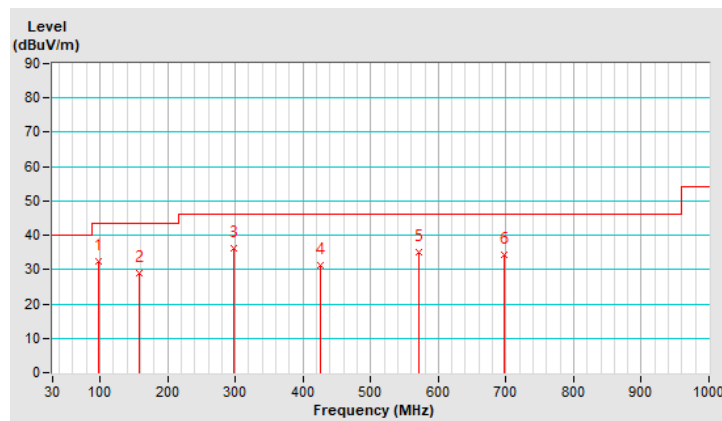


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	98.70	32.3 QP	43.5	-11.2	1.64 V	72	49.6	-17.3
2	159.00	29.0 QP	43.5	-14.5	2.04 V	108	41.5	-12.5
3	298.20	36.1 QP	46.0	-9.9	1.74 V	285	48.1	-12.0
4	424.80	31.2 QP	46.0	-14.8	1.18 V	338	40.0	-8.8
5	570.60	35.2 QP	46.0	-10.8	1.18 V	291	41.2	-6.0
6	697.20	34.2 QP	46.0	-11.8	1.35 V	237	37.8	-3.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.8 Test Results (Mode 2)

Dipole Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	46.7 PK	74.0	-27.3	2.86 H	63	49.8	-3.1
2	2390.00	34.1 AV	54.0	-19.9	2.86 H	63	37.2	-3.1
3	*2440.00	98.6 PK			2.86 H	63	101.6	-3.0
4	*2440.00	93.1 AV			2.86 H	63	96.1	-3.0
5	2483.50	45.7 PK	74.0	-28.3	2.86 H	63	48.8	-3.1
6	2483.50	34.1 AV	54.0	-19.9	2.86 H	63	37.2	-3.1
7	4880.00	44.8 PK	74.0	-29.2	1.71 H	202	43.9	0.9
8	4880.00	38.1 AV	54.0	-15.9	1.71 H	202	37.2	0.9
9	*5785.00	114.1 PK			2.43 H	193	112.1	2.0
10	*5785.00	102.5 AV			2.43 H	193	100.5	2.0
11	7320.00	45.7 PK	74.0	-28.3	1.61 H	57	38.7	7.0
12	7320.00	32.7 AV	54.0	-21.3	1.61 H	57	25.7	7.0
13	11570.00	48.7 PK	74.0	-25.3	3.21 H	27	35.8	12.9
14	11570.00	39.3 AV	54.0	-14.7	3.21 H	27	26.4	12.9
15	#17355.00	56.1 PK	68.2	-12.1	1.28 H	27	39.3	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.5 PK	74.0	-24.5	1.14 V	87	52.6	-3.1
2	2390.00	35.9 AV	54.0	-18.1	1.14 V	87	39.0	-3.1
3	*2440.00	105.7 PK			1.14 V	87	108.7	-3.0
4	*2440.00	101.6 AV			1.14 V	87	104.6	-3.0
5	2483.50	47.6 PK	74.0	-26.4	1.14 V	87	50.7	-3.1
6	2483.50	34.3 AV	54.0	-19.7	1.14 V	87	37.4	-3.1
7	4880.00	43.6 PK	74.0	-30.4	1.46 V	13	42.7	0.9
8	4880.00	36.5 AV	54.0	-17.5	1.46 V	13	35.6	0.9
9	*5785.00	110.5 PK			1.10 V	266	108.5	2.0
10	*5785.00	97.1 AV			1.10 V	266	95.1	2.0
11	7320.00	44.4 PK	74.0	-29.6	1.41 V	23	37.4	7.0
12	7320.00	31.9 AV	54.0	-22.1	1.41 V	23	24.9	7.0
13	11570.00	49.8 PK	74.0	-24.2	1.37 V	180	36.9	12.9
14	11570.00	40.8 AV	54.0	-13.2	1.37 V	180	27.9	12.9
15	#17355.00	56.0 PK	68.2	-12.2	1.35 V	32	39.2	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

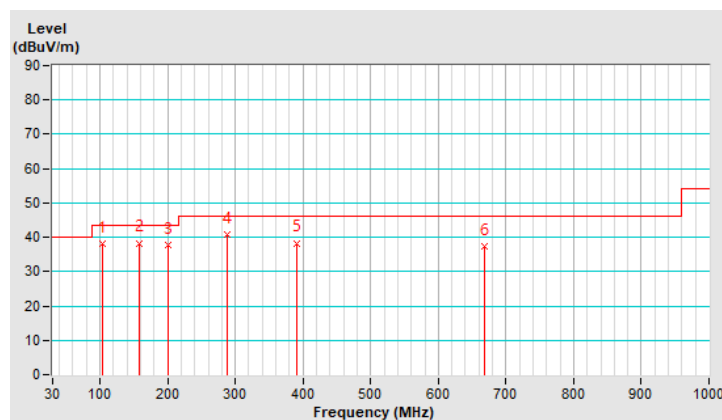
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.50	38.0 QP	43.5	-5.5	2.09 H	329	54.5	-16.5
2	158.20	38.3 QP	43.5	-5.2	1.73 H	212	50.7	-12.4
3	200.40	37.6 QP	43.5	-5.9	1.05 H	245	53.7	-16.1
4	287.10	40.8 QP	46.0	-5.2	1.23 H	360	53.0	-12.2
5	390.90	38.3 QP	46.0	-7.7	1.03 H	153	48.1	-9.8
6	668.10	37.3 QP	46.0	-8.7	1.18 H	240	41.4	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

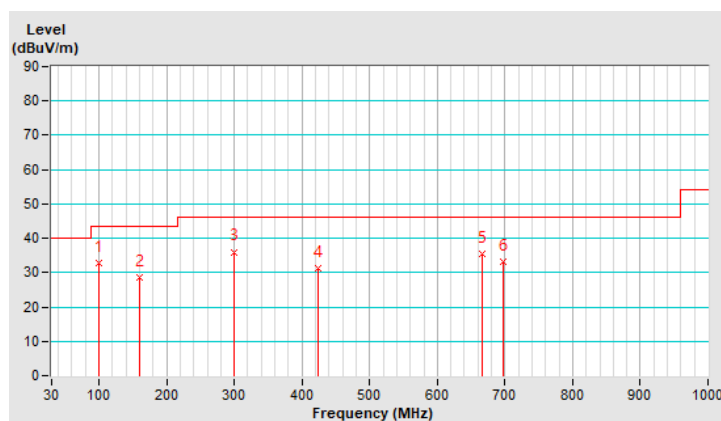


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.30	32.7 QP	43.5	-10.8	1.58 V	94	49.8	-17.1
2	159.30	28.5 QP	43.5	-15.0	2.02 V	118	41.0	-12.5
3	299.00	36.0 QP	46.0	-10.0	1.72 V	267	48.0	-12.0
4	424.40	31.4 QP	46.0	-14.6	1.17 V	323	40.2	-8.8
5	667.10	35.3 QP	46.0	-10.7	1.20 V	309	39.4	-4.1
6	697.10	33.0 QP	46.0	-13.0	1.41 V	224	36.6	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



PIFA Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	46.6 PK	74.0	-27.4	2.97 H	82	49.7	-3.1
2	2390.00	34.0 AV	54.0	-20.0	2.97 H	82	37.1	-3.1
3	*2440.00	100.1 PK			2.97 H	82	103.1	-3.0
4	*2440.00	96.3 AV			2.97 H	82	99.3	-3.0
5	2483.50	46.1 PK	74.0	-27.9	2.97 H	82	49.2	-3.1
6	2483.50	34.6 AV	54.0	-19.4	2.97 H	82	37.7	-3.1
7	4880.00	45.0 PK	74.0	-29.0	1.73 H	198	44.1	0.9
8	4880.00	38.4 AV	54.0	-15.6	1.73 H	198	37.5	0.9
9	*5785.00	114.6 PK			2.39 H	178	112.6	2.0
10	*5785.00	103.4 AV			2.39 H	178	101.4	2.0
11	7320.00	44.6 PK	74.0		1.59 H	53	37.6	7.0
12	7320.00	32.2 AV	54.0	-21.8	1.59 H	53	25.2	7.0
13	11570.00	49.4 PK	74.0	-24.6	3.17 H	7	36.5	12.9
14	11570.00	39.3 AV	54.0	-14.7	3.17 H	7	26.4	12.9
15	#17355.00	55.4 PK	68.2	-12.8	1.32 H	17	38.6	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	48.6 PK	74.0	-25.4	1.16 V	110	51.7	-3.1
2	2390.00	34.6 AV	54.0	-19.4	1.16 V	110	37.7	-3.1
3	*2440.00	108.3 PK			1.16 V	110	111.3	-3.0
4	*2440.00	104.2 AV			1.16 V	110	107.2	-3.0
5	2483.50	47.1 PK	74.0	-26.9	1.16 V	110	50.2	-3.1
6	2483.50	33.9 AV	54.0	-20.1	1.16 V	110	37.0	-3.1
7	4880.00	45.3 PK	74.0	-28.7	1.39 V	3	44.4	0.9
8	4880.00	37.9 AV	54.0	-16.1	1.39 V	3	37.0	0.9
9	*5785.00	111.6 PK			1.14 V	286	109.6	2.0
10	*5785.00	98.2 AV			1.14 V	286	96.2	2.0
11	7320.00	44.8 PK	74.0	-29.2	1.40 V	47	37.8	7.0
12	7320.00	32.5 AV	54.0	-21.5	1.40 V	47	25.5	7.0
13	11570.00	49.6 PK	74.0	-24.4	1.49 V	199	36.7	12.9
14	11570.00	40.2 AV	54.0	-13.8	1.49 V	199	27.3	12.9
15	#17355.00	55.6 PK	68.2	-12.6	1.33 V	42	38.8	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

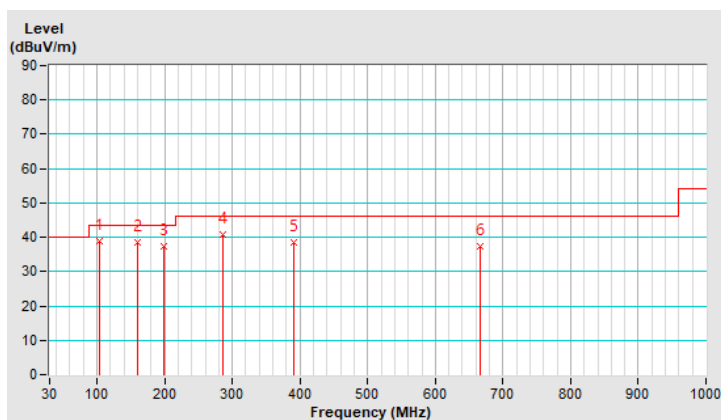
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	104.00	39.0 QP	43.5	-4.5	2.11 H	342	55.4	-16.4
2	159.40	38.6 QP	43.5	-4.9	1.72 H	233	51.1	-12.5
3	199.70	37.5 QP	43.5	-6.0	1.02 H	227	53.6	-16.1
4	286.30	40.7 QP	46.0	-5.3	1.12 H	357	52.9	-12.2
5	390.60	38.5 QP	46.0	-7.5	1.03 H	136	48.4	-9.9
6	666.70	37.5 QP	46.0	-8.5	1.21 H	236	41.6	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

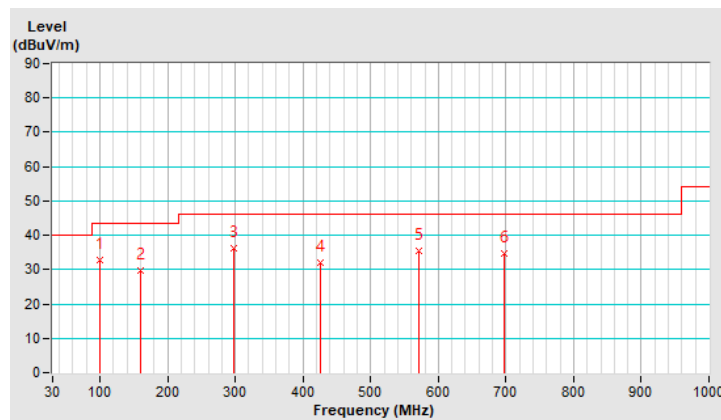


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	9kHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.40	32.9 QP	43.5	-10.6	1.60 V	84	50.0	-17.1
2	159.50	29.6 QP	43.5	-13.9	2.03 V	119	42.0	-12.4
3	298.00	36.1 QP	46.0	-9.9	1.78 V	274	48.1	-12.0
4	425.40	31.9 QP	46.0	-14.1	1.19 V	339	40.7	-8.8
5	570.80	35.4 QP	46.0	-10.6	1.23 V	280	41.4	-6.0
6	697.80	34.7 QP	46.0	-11.3	1.38 V	232	38.3	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.9 Test Results (Mode 3)

Dipole Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	47.3 PK	74.0	-26.7	2.95 H	55	50.4	-3.1
2	2390.00	34.4 AV	54.0	-19.6	2.95 H	55	37.5	-3.1
3	*2440.00	98.5 PK			2.95 H	55	101.5	-3.0
4	*2440.00	94.8 AV			2.95 H	55	97.8	-3.0
5	2483.50	45.9 PK	74.0	-28.1	2.95 H	55	49.0	-3.1
6	2483.50	34.4 AV	54.0	-19.6	2.95 H	55	37.5	-3.1
7	4880.00	44.2 PK	74.0	-29.8	1.71 H	183	43.3	0.9
8	4880.00	37.7 AV	54.0	-16.3	1.71 H	183	36.8	0.9
9	*5785.00	109.3 PK			2.50 H	204	107.3	2.0
10	*5785.00	101.1 AV			2.50 H	204	99.1	2.0
11	7320.00	45.6 PK	74.0	-28.4	1.55 H	70	38.6	7.0
12	7320.00	32.8 AV	54.0	-21.2	1.55 H	70	25.8	7.0
13	11570.00	49.7 PK	74.0	-24.3	3.24 H	23	36.8	12.9
14	11570.00	39.1 AV	54.0	-14.9	3.24 H	23	26.2	12.9
15	#17355.00	54.9 PK	68.2	-13.3	1.33 H	26	38.1	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	48.4 PK	74.0	-25.6	1.25 V	114	51.5	-3.1
2	2390.00	34.7 AV	54.0	-19.3	1.25 V	114	37.8	-3.1
3	*2440.00	105.4 PK			1.25 V	114	108.4	-3.0
4	*2440.00	101.4 AV			1.25 V	114	104.4	-3.0
5	2483.50	47.4 PK	74.0	-26.6	1.25 V	114	50.5	-3.1
6	2483.50	34.4 AV	54.0	-19.6	1.25 V	114	37.5	-3.1
7	4880.00	45.6 PK	74.0	-28.4	1.39 V	23	44.7	0.9
8	4880.00	38.3 AV	54.0	-15.7	1.39 V	23	37.4	0.9
9	*5785.00	114.1 PK			1.04 V	83	112.1	2.0
10	*5785.00	106.1 AV			1.04 V	83	104.1	2.0
11	7320.00	44.2 PK	74.0	-29.8	1.40 V	55	37.2	7.0
12	7320.00	32.1 AV	54.0	-21.9	1.40 V	55	25.1	7.0
13	11570.00	49.8 PK	74.0	-24.2	1.43 V	178	36.9	12.9
14	11570.00	40.8 AV	54.0	-13.2	1.43 V	178	27.9	12.9
15	#17355.00	54.7 PK	68.2	-13.5	1.49 V	80	37.9	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

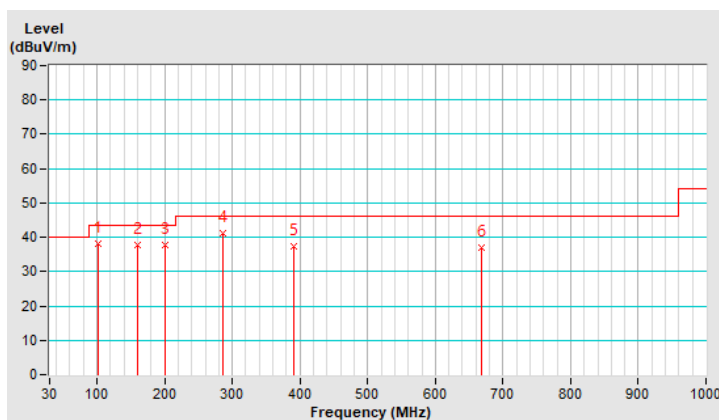
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	102.60	38.2 QP	43.5	-5.3	2.05 H	326	54.8	-16.6
2	159.60	37.7 QP	43.5	-5.8	1.68 H	217	50.1	-12.4
3	200.40	37.7 QP	43.5	-5.8	1.07 H	239	53.8	-16.1
4	286.90	41.2 QP	46.0	-4.8	1.22 H	360	53.4	-12.2
5	390.10	37.4 QP	46.0	-8.6	1.05 H	168	47.3	-9.9
6	667.50	37.0 QP	46.0	-9.0	1.17 H	223	41.1	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

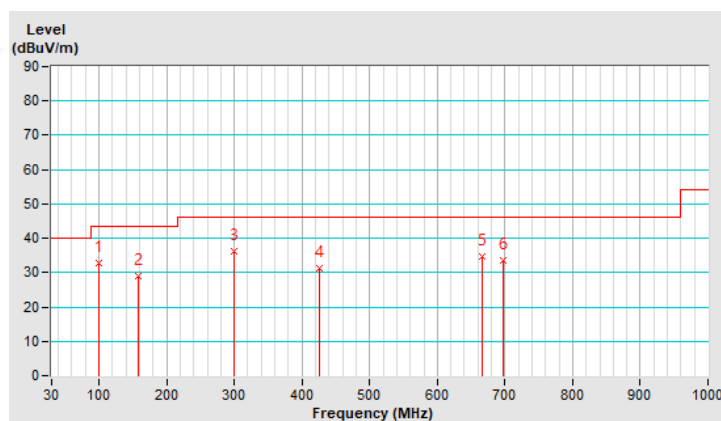


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.90	32.8 QP	43.5	-10.7	1.67 V	109	49.8	-17.0
2	158.50	29.0 QP	43.5	-14.5	2.08 V	111	41.5	-12.5
3	299.70	36.3 QP	46.0	-9.7	1.71 V	271	48.3	-12.0
4	425.40	31.2 QP	46.0	-14.8	1.19 V	312	40.0	-8.8
5	667.20	34.7 QP	46.0	-11.3	1.23 V	318	38.8	-4.1
6	696.90	33.4 QP	46.0	-12.6	1.38 V	245	37.0	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



PIFA Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	47.1 PK	74.0	-26.9	2.90 H	60	50.2	-3.1
2	2390.00	34.3 AV	54.0	-19.7	2.90 H	60	37.4	-3.1
3	*2440.00	100.0 PK			2.90 H	60	103.0	-3.0
4	*2440.00	96.2 AV			2.90 H	60	99.2	-3.0
5	2483.50	45.7 PK	74.0	-28.3	2.90 H	60	48.8	-3.1
6	2483.50	34.2 AV	54.0	-19.8	2.90 H	60	37.3	-3.1
7	4880.00	44.8 PK	74.0	-29.2	1.70 H	182	43.9	0.9
8	4880.00	38.1 AV	54.0	-15.9	1.70 H	182	37.2	0.9
9	*5785.00	119.1 PK			2.50 H	210	117.1	2.0
10	*5785.00	111.3 AV			2.50 H	210	109.3	2.0
11	7320.00	45.5 PK	74.0	-28.5	1.59 H	85	38.5	7.0
12	7320.00	32.6 AV	54.0	-21.4	1.59 H	85	25.6	7.0
13	11570.00	49.8 PK	74.0	-24.2	3.21 H	38	36.9	12.9
14	11570.00	39.1 AV	54.0	-14.9	3.21 H	38	26.2	12.9
15	#17355.00	55.3 PK	68.2	-12.9	1.30 H	15	38.5	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	48.5 PK	74.0	-25.5	1.20 V	100	51.6	-3.1
2	2390.00	34.6 AV	54.0	-19.4	1.20 V	100	37.7	-3.1
3	*2440.00	107.7 PK			1.20 V	100	110.7	-3.0
4	*2440.00	103.8 AV			1.20 V	100	106.8	-3.0
5	2483.50	47.3 PK	74.0	-26.7	1.20 V	100	50.4	-3.1
6	2483.50	34.4 AV	54.0	-19.6	1.20 V	100	37.5	-3.1
7	4880.00	45.2 PK	74.0	-28.8	1.44 V	12	44.3	0.9
8	4880.00	37.8 AV	54.0	-16.2	1.44 V	12	36.9	0.9
9	*5785.00	113.4 PK			1.10 V	94	111.4	2.0
10	*5785.00	105.1 AV			1.10 V	94	103.1	2.0
11	7320.00	44.6 PK	74.0	-29.4	1.37 V	50	37.6	7.0
12	7320.00	32.4 AV	54.0	-21.6	1.37 V	50	25.4	7.0
13	11570.00	49.7 PK	74.0	-24.3	1.38 V	187	36.8	12.9
14	11570.00	40.7 AV	54.0	-13.3	1.38 V	187	27.8	12.9
15	#17355.00	54.7 PK	68.2	-13.5	1.47 V	73	37.9	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

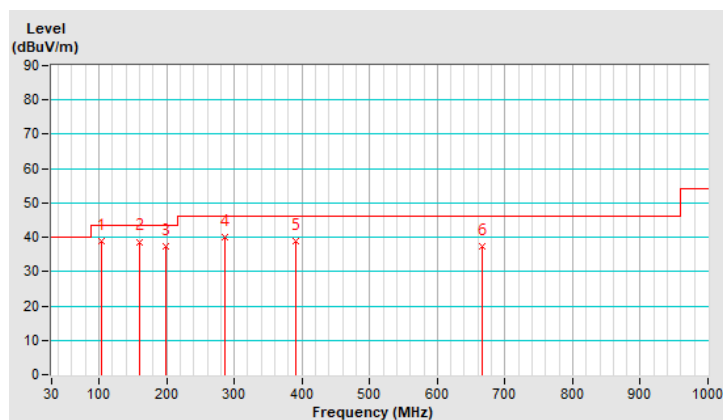
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.70	39.0 QP	43.5	-4.5	2.13 H	346	55.4	-16.4
2	159.30	38.7 QP	43.5	-4.8	1.71 H	220	51.2	-12.5
3	199.50	37.4 QP	43.5	-6.1	1.11 H	233	53.5	-16.1
4	285.70	40.0 QP	46.0	-6.0	1.17 H	346	52.2	-12.2
5	390.90	39.0 QP	46.0	-7.0	1.08 H	132	48.8	-9.8
6	666.90	37.3 QP	46.0	-8.7	1.14 H	238	41.4	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

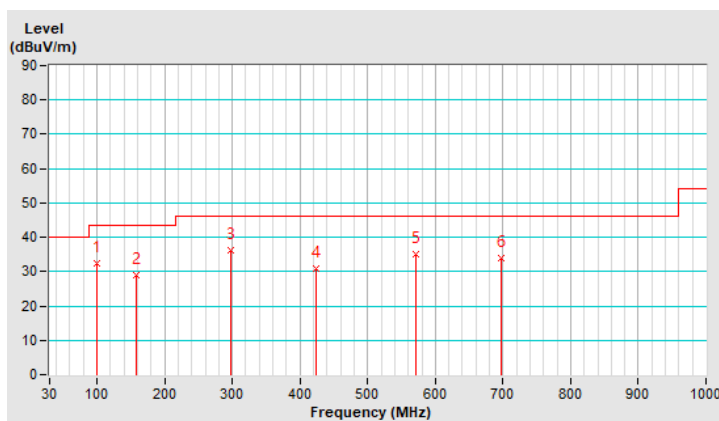


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.10	32.5 QP	43.5	-11.0	1.66 V	57	49.7	-17.2
2	158.90	28.9 QP	43.5	-14.6	2.04 V	106	41.4	-12.5
3	298.30	36.2 QP	46.0	-9.8	1.76 V	273	48.2	-12.0
4	424.70	30.9 QP	46.0	-15.1	1.23 V	351	39.7	-8.8
5	570.80	35.2 QP	46.0	-10.8	1.15 V	292	41.2	-6.0
6	697.20	33.9 QP	46.0	-12.1	1.29 V	230	37.5	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.10 Test Results (Mode 4)

Dipole Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	46.5 PK	74.0	-27.5	2.90 H	51	49.6	-3.1
2	2390.00	33.7 AV	54.0	-20.3	2.90 H	51	36.8	-3.1
3	*2437.00	98.5 PK			2.90 H	51	101.5	-3.0
4	*2437.00	92.8 AV			2.90 H	51	95.8	-3.0
5	2483.50	45.9 PK	74.0	-28.1	2.90 H	51	49.0	-3.1
6	2483.50	34.2 AV	54.0	-19.8	2.90 H	51	37.3	-3.1
7	4874.00	45.0 PK	74.0	-29.0	1.70 H	194	44.1	0.9
8	4874.00	38.6 AV	54.0	-15.4	1.70 H	194	37.7	0.9
9	*5785.00	113.9 PK			2.51 H	181	111.9	2.0
10	*5785.00	102.2 AV			2.51 H	181	100.2	2.0
11	7311.00	44.8 PK	74.0	-29.2	1.58 H	60	37.8	7.0
12	7311.00	32.0 AV	54.0	-22.0	1.58 H	60	25.0	7.0
13	11570.00	49.0 PK	74.0	-25.0	3.20 H	32	36.1	12.9
14	11570.00	39.9 AV	54.0	-14.1	3.20 H	32	27.0	12.9
15	#17355.00	55.6 PK	68.2	-12.6	1.24 H	22	38.8	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.3 PK	74.0	-24.7	1.13 V	75	52.4	-3.1
2	2390.00	35.4 AV	54.0	-18.6	1.13 V	75	38.5	-3.1
3	*2437.00	105.3 PK			1.13 V	75	108.3	-3.0
4	*2437.00	101.7 AV			1.13 V	75	104.7	-3.0
5	2483.50	48.1 PK	74.0	-25.9	1.13 V	75	51.2	-3.1
6	2483.50	34.7 AV	54.0	-19.3	1.13 V	75	37.8	-3.1
7	4874.00	44.0 PK	74.0	-30.0	1.43 V	8	43.1	0.9
8	4874.00	37.0 AV	54.0	-17.0	1.43 V	8	36.1	0.9
9	*5785.00	110.9 PK			1.19 V	264	108.9	2.0
10	*5785.00	97.5 AV			1.19 V	264	95.5	2.0
11	7311.00	44.3 PK	74.0	-29.7	1.44 V	58	37.3	7.0
12	7311.00	31.8 AV	54.0	-22.2	1.44 V	58	24.8	7.0
13	11570.00	49.6 PK	74.0	-24.4	1.41 V	193	36.7	12.9
14	11570.00	40.2 AV	54.0	-13.8	1.41 V	193	27.3	12.9
15	#17355.00	56.1 PK	68.2	-12.1	1.43 V	52	39.3	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

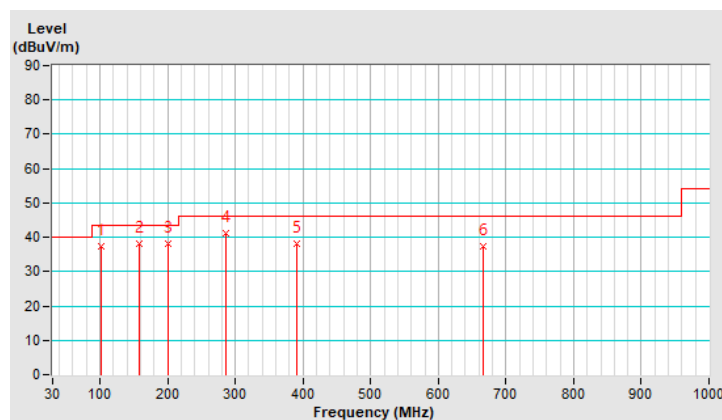
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	102.60	37.4 QP	43.5	-6.1	2.10 H	334	54.0	-16.6
2	158.60	38.1 QP	43.5	-5.4	1.75 H	209	50.6	-12.5
3	200.20	38.1 QP	43.5	-5.4	1.05 H	224	54.2	-16.1
4	286.60	41.0 QP	46.0	-5.0	1.22 H	354	53.2	-12.2
5	390.40	38.0 QP	46.0	-8.0	1.02 H	172	47.9	-9.9
6	666.60	37.2 QP	46.0	-8.8	1.24 H	235	41.3	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

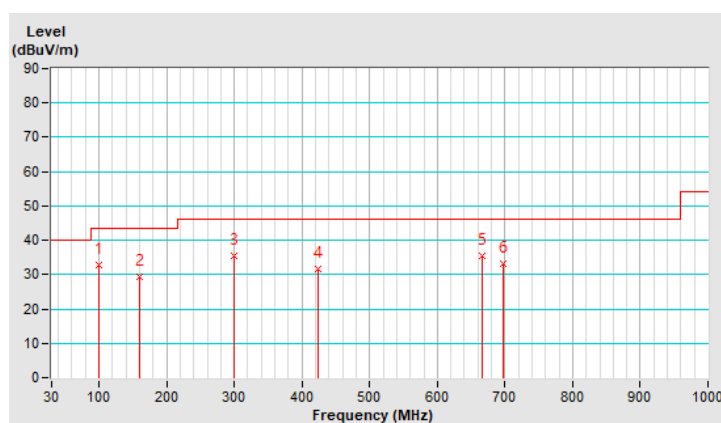


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.90	32.7 QP	43.5	-10.8	1.70 V	90	49.7	-17.0
2	159.60	29.4 QP	43.5	-14.1	2.06 V	95	41.8	-12.4
3	299.40	35.4 QP	46.0	-10.6	1.72 V	269	47.4	-12.0
4	424.40	31.8 QP	46.0	-14.2	1.20 V	315	40.6	-8.8
5	666.80	35.4 QP	46.0	-10.6	1.12 V	325	39.5	-4.1
6	697.60	33.0 QP	46.0	-13.0	1.47 V	224	36.6	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



PIFA Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.30 H	32	61.7	-3.1
2	2390.00	43.1 AV	54.0	-10.9	1.30 H	32	46.2	-3.1
3	*2437.00	106.6 PK			1.30 H	32	109.6	-3.0
4	*2437.00	95.7 AV			1.30 H	32	98.7	-3.0
5	2483.50	66.1 PK	74.0	-7.9	1.30 H	32	69.2	-3.1
6	2483.50	44.5 AV	54.0	-9.5	1.30 H	32	47.6	-3.1
7	4874.00	41.7 PK	74.0	-32.3	1.83 H	157	40.8	0.9
8	4874.00	39.0 AV	54.0	-15.0	1.83 H	157	38.1	0.9
9	*5785.00	115.3 PK			2.43 H	172	113.3	2.0
10	*5785.00	103.8 AV			2.43 H	172	101.8	2.0
11	7311.00	46.6 PK	74.0	-27.4	1.56 H	146	39.6	7.0
12	7311.00	39.1 AV	54.0	-14.9	1.56 H	146	32.1	7.0
13	11570.00	49.8 PK	74.0	-24.2	3.23 H	11	36.9	12.9
14	11570.00	39.8 AV	54.0	-14.2	3.23 H	11	26.9	12.9
15	#17355.00	56.0 PK	68.2	-12.2	1.29 H	50	39.2	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.1 PK	74.0	-12.9	1.43 V	347	64.2	-3.1
2	2390.00	46.6 AV	54.0	-7.4	1.43 V	347	49.7	-3.1
3	*2437.00	116.5 PK			1.43 V	347	119.5	-3.0
4	*2437.00	105.3 AV			1.43 V	347	108.3	-3.0
5	2483.50	70.1 PK	74.0	-3.9	1.43 V	347	73.2	-3.1
6	2483.50	48.3 AV	54.0	-5.7	1.43 V	347	51.4	-3.1
7	4874.00	42.3 PK	74.0	-31.7	1.67 V	239	41.4	0.9
8	4874.00	40.1 AV	54.0	-13.9	1.67 V	239	39.2	0.9
9	*5785.00	112.1 PK			1.18 V	306	110.1	2.0
10	*5785.00	98.6 AV			1.18 V	306	96.6	2.0
11	7311.00	47.2 PK	74.0	-26.8	1.55 V	211	40.2	7.0
12	7311.00	41.5 AV	54.0	-12.5	1.55 V	211	34.5	7.0
13	11570.00	49.4 PK	74.0	-24.6	3.30 V	4	36.5	12.9
14	11570.00	39.3 AV	54.0	-14.7	3.30 V	4	26.4	12.9
15	#17355.00	55.6 PK	68.2	-12.6	1.23 V	25	38.8	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

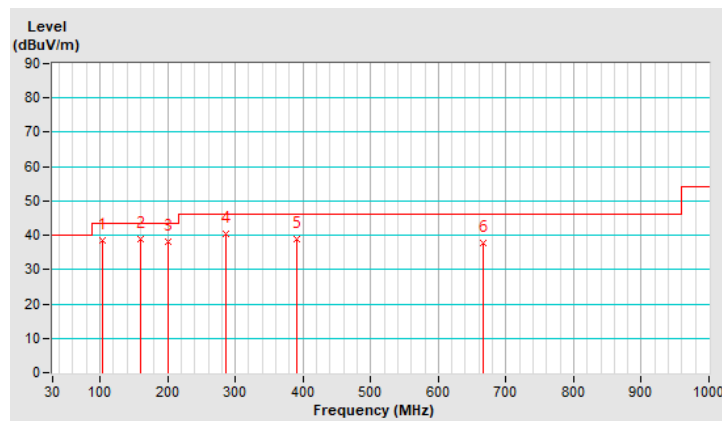
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.90	38.6 QP	43.5	-4.9	2.13 H	342	55.0	-16.4
2	159.40	38.9 QP	43.5	-4.6	1.77 H	235	51.4	-12.5
3	200.10	38.0 QP	43.5	-5.5	1.03 H	237	54.1	-16.1
4	286.20	40.4 QP	46.0	-5.6	1.14 H	343	52.6	-12.2
5	391.30	39.0 QP	46.0	-7.0	1.05 H	151	48.8	-9.8
6	667.20	37.6 QP	46.0	-8.4	1.13 H	249	41.7	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

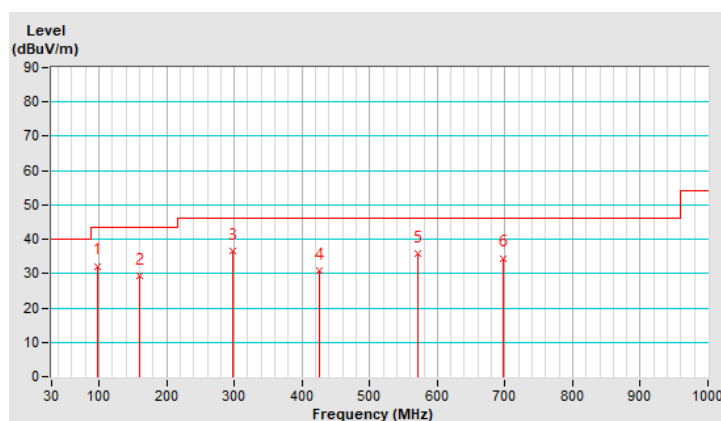


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	98.40	32.2 QP	43.5	-11.3	1.65 V	78	49.5	-17.3
2	159.10	29.4 QP	43.5	-14.1	2.06 V	110	41.9	-12.5
3	298.60	36.5 QP	46.0	-9.5	1.71 V	277	48.5	-12.0
4	424.80	31.0 QP	46.0	-15.0	1.16 V	350	39.8	-8.8
5	570.80	35.7 QP	46.0	-10.3	1.24 V	301	41.7	-6.0
6	697.70	34.5 QP	46.0	-11.5	1.37 V	246	38.1	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.11 Test Results (Mode 5)

Dipole Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	46.7 PK	74.0	-27.3	2.91 H	52	49.8	-3.1
2	2390.00	34.0 AV	54.0	-20.0	2.91 H	52	37.1	-3.1
3	*2437.00	98.9 PK			2.91 H	52	101.9	-3.0
4	*2437.00	93.2 AV			2.91 H	52	96.2	-3.0
5	2483.50	45.4 PK	74.0	-28.6	2.91 H	52	48.5	-3.1
6	2483.50	33.8 AV	54.0	-20.2	2.91 H	52	36.9	-3.1
7	4874.00	45.5 PK	74.0	-28.5	1.70 H	196	44.6	0.9
8	4874.00	38.8 AV	54.0	-15.2	1.70 H	196	37.9	0.9
9	*5785.00	114.0 PK			2.46 H	190	112.0	2.0
10	*5785.00	102.5 AV			2.46 H	190	100.5	2.0
11	7311.00	44.9 PK	74.0	-29.1	1.55 H	45	37.9	7.0
12	7311.00	32.0 AV	54.0	-22.0	1.55 H	45	25.0	7.0
13	11570.00	48.9 PK	74.0	-25.1	3.23 H	20	36.0	12.9
14	11570.00	39.7 AV	54.0	-14.3	3.23 H	20	26.8	12.9
15	#17355.00	55.7 PK	68.2	-12.5	1.22 H	38	38.9	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.2 PK	74.0	-24.8	1.12 V	83	52.3	-3.1
2	2390.00	35.3 AV	54.0	-18.7	1.12 V	83	38.4	-3.1
3	*2437.00	105.8 PK			1.12 V	83	108.8	-3.0
4	*2437.00	102.0 AV			1.12 V	83	105.0	-3.0
5	2483.50	47.8 PK	74.0	-26.2	1.12 V	83	50.9	-3.1
6	2483.50	34.2 AV	54.0	-19.8	1.12 V	83	37.3	-3.1
7	4874.00	43.6 PK	74.0	-30.4	1.45 V	7	42.7	0.9
8	4874.00	36.6 AV	54.0	-17.4	1.45 V	7	35.7	0.9
9	*5785.00	110.4 PK			1.16 V	272	108.4	2.0
10	*5785.00	97.1 AV			1.16 V	272	95.1	2.0
11	7311.00	44.2 PK	74.0	-29.8	1.44 V	45	37.2	7.0
12	7311.00	31.5 AV	54.0	-22.5	1.44 V	45	24.5	7.0
13	11570.00	49.6 PK	74.0	-24.4	1.43 V	189	36.7	12.9
14	11570.00	40.5 AV	54.0	-13.5	1.43 V	189	27.6	12.9
15	#17355.00	56.5 PK	68.2	-11.7	1.43 V	41	39.7	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

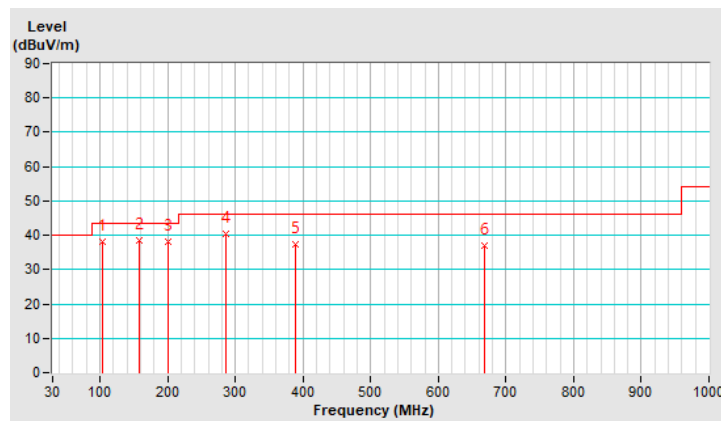
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.10	38.2 QP	43.5	-5.3	2.12 H	325	54.8	-16.6
2	158.30	38.5 QP	43.5	-5.0	1.67 H	216	50.9	-12.4
3	200.30	38.0 QP	43.5	-5.5	1.10 H	227	54.1	-16.1
4	286.40	40.3 QP	46.0	-5.7	1.22 H	360	52.5	-12.2
5	389.80	37.2 QP	46.0	-8.8	1.02 H	165	47.1	-9.9
6	667.60	37.1 QP	46.0	-8.9	1.22 H	236	41.2	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

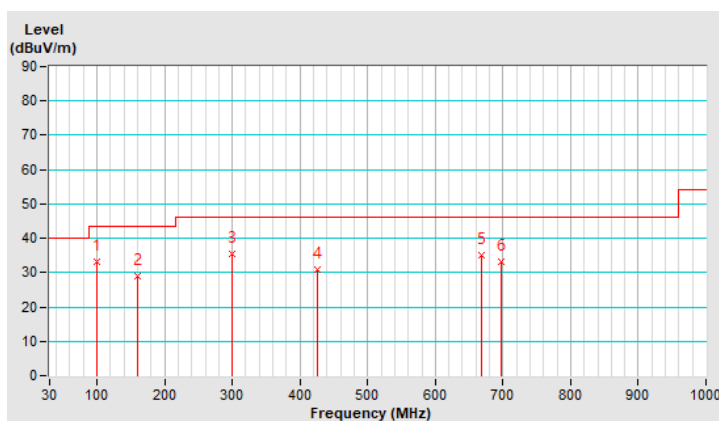


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.40	33.1 QP	43.5	-10.4	1.68 V	116	50.2	-17.1
2	159.10	29.0 QP	43.5	-14.5	2.01 V	113	41.5	-12.5
3	299.40	35.4 QP	46.0	-10.6	1.74 V	275	47.4	-12.0
4	425.30	31.0 QP	46.0	-15.0	1.18 V	308	39.8	-8.8
5	667.40	35.0 QP	46.0	-11.0	1.17 V	319	39.1	-4.1
6	697.20	33.2 QP	46.0	-12.8	1.47 V	239	36.8	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



PIFA Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.27 H	20	62.4	-3.1
2	2390.00	43.9 AV	54.0	-10.1	1.27 H	20	47.0	-3.1
3	*2437.00	106.5 PK			1.27 H	20	109.5	-3.0
4	*2437.00	95.8 AV			1.27 H	20	98.8	-3.0
5	2483.50	67.1 PK	74.0	-6.9	1.27 H	20	70.2	-3.1
6	2483.50	44.7 AV	54.0	-9.3	1.27 H	20	47.8	-3.1
7	4874.00	41.7 PK	74.0	-32.3	1.85 H	134	40.8	0.9
8	4874.00	38.6 AV	54.0	-15.4	1.85 H	134	37.7	0.9
9	*5785.00	114.5 PK			2.43 H	180	112.5	2.0
10	*5785.00	103.3 AV			2.43 H	180	101.3	2.0
11	7311.00	46.3 PK	74.0	-27.7	1.56 H	165	39.3	7.0
12	7311.00	39.4 AV	54.0	-14.6	1.56 H	165	32.4	7.0
13	11570.00	49.3 PK	74.0	-24.7	1.40 H	191	36.4	12.9
14	11570.00	39.8 AV	54.0	-14.2	1.40 H	191	26.9	12.9
15	#17355.00	55.9 PK	68.2	-12.3	1.41 H	50	39.1	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	61.3 PK	74.0	-12.7	1.37 V	343	64.4	-3.1
2	2390.00	46.3 AV	54.0	-7.7	1.37 V	343	49.4	-3.1
3	*2437.00	116.9 PK			1.37 V	343	119.9	-3.0
4	*2437.00	106.0 AV			1.37 V	343	109.0	-3.0
5	2483.50	69.5 PK	74.0	-4.5	1.37 V	343	72.6	-3.1
6	2483.50	47.9 AV	54.0	-6.1	1.37 V	343	51.0	-3.1
7	4874.00	41.7 PK	74.0	-32.3	1.67 V	224	40.8	0.9
8	4874.00	39.5 AV	54.0	-14.5	1.67 V	224	38.6	0.9
9	*5785.00	111.4 PK			1.14 V	297	109.4	2.0
10	*5785.00	97.9 AV			1.14 V	297	95.9	2.0
11	7311.00	47.0 PK	74.0	-27.0	1.51 V	224	40.0	7.0
12	7311.00	41.3 AV	54.0	-12.7	1.51 V	224	34.3	7.0
13	11570.00	48.6 PK	74.0	-25.4	1.44 V	170	35.7	12.9
14	11570.00	39.5 AV	54.0	-14.5	1.44 V	170	26.6	12.9
15	#17355.00	55.6 PK	68.2	-12.6	1.38 V	39	38.8	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

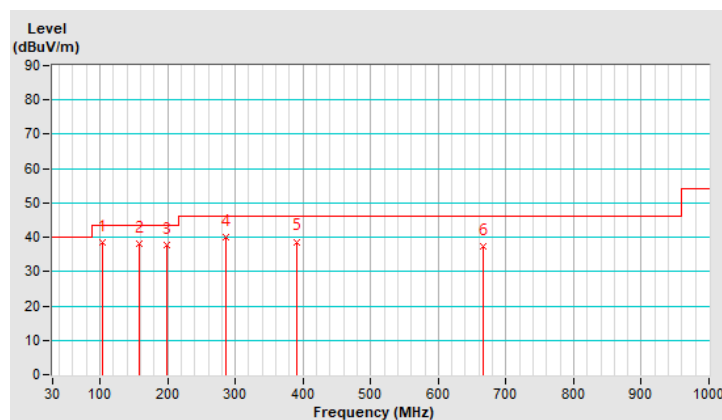
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.60	38.4 QP	43.5	-5.1	2.13 H	329	54.9	-16.5
2	158.80	38.0 QP	43.5	-5.5	1.69 H	224	50.5	-12.5
3	199.70	37.7 QP	43.5	-5.8	1.01 H	225	53.8	-16.1
4	286.20	40.1 QP	46.0	-5.9	1.10 H	360	52.3	-12.2
5	390.80	38.7 QP	46.0	-7.3	1.06 H	136	48.5	-9.8
6	666.90	37.4 QP	46.0	-8.6	1.16 H	249	41.5	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

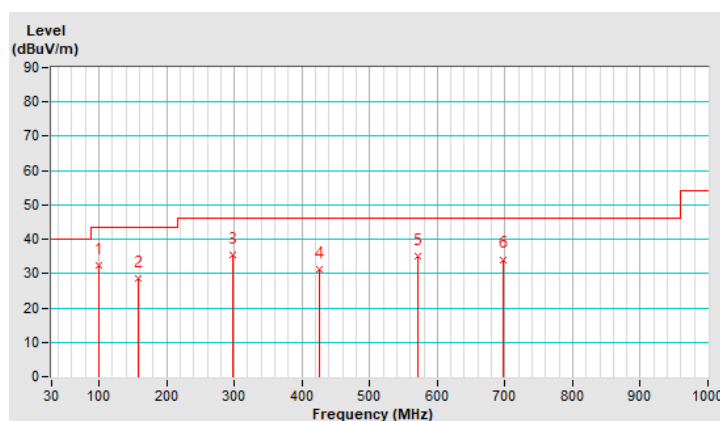


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.10	32.5 QP	43.5	-11.0	1.59 V	72	49.7	-17.2
2	158.60	28.7 QP	43.5	-14.8	2.07 V	92	41.2	-12.5
3	297.80	35.6 QP	46.0	-10.4	1.70 V	285	47.6	-12.0
4	425.00	31.3 QP	46.0	-14.7	1.20 V	331	40.1	-8.8
5	570.60	35.1 QP	46.0	-10.9	1.18 V	290	41.1	-6.0
6	697.40	34.1 QP	46.0	-11.9	1.32 V	239	37.7	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.1.12 Test Results (Mode 6)

Dipole Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	47.3 PK	74.0	-26.7	2.86 H	57	50.4	-3.1
2	2390.00	34.3 AV	54.0	-19.7	2.86 H	57	37.4	-3.1
3	*2437.00	99.5 PK			2.86 H	57	102.5	-3.0
4	*2437.00	93.5 AV			2.86 H	57	96.5	-3.0
5	#2440.00	99.5 PK			2.86 H	57	102.5	-3.0
6	#2440.00	93.5 AV			2.86 H	57	96.5	-3.0
7	2483.50	45.7 PK	74.0	-28.3	2.86 H	57	48.8	-3.1
8	2483.50	34.0 AV	54.0	-20.0	2.86 H	57	37.1	-3.1
9	4874.00	45.4 PK	74.0	-28.6	1.72 H	188	44.5	0.9
10	4874.00	38.5 AV	54.0	-15.5	1.72 H	188	37.6	0.9
11	*5785.00	113.5 PK			2.46 H	176	111.5	2.0
12	*5785.00	102.1 AV			2.46 H	176	100.1	2.0
13	7311.00	44.6 PK	74.0	-29.4	1.51 H	53	37.6	7.0
14	7311.00	31.6 AV	54.0	-22.4	1.51 H	53	24.6	7.0
15	11570.00	48.3 PK	74.0	-25.7	3.24 H	7	35.4	12.9
16	11570.00	39.3 AV	54.0	-14.7	3.24 H	7	26.4	12.9
17	#17355.00	56.2 PK	68.2	-12.0	1.21 H	40	39.4	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	49.0 PK	74.0	-25.0	1.10 V	89	52.1	-3.1
2	2390.00	35.1 AV	54.0	-18.9	1.10 V	89	38.2	-3.1
3	*2437.00	105.6 PK			1.10 V	89	108.6	-3.0
4	*2437.00	101.9 AV			1.10 V	89	104.9	-3.0
5	#2440.00	105.6 PK			1.10 V	89	108.6	-3.0
6	#2440.00	101.9 AV			1.10 V	89	104.9	-3.0
7	2483.50	47.6 PK	74.0	-26.4	1.10 V	89	50.7	-3.1
8	2483.50	33.8 AV	54.0	-20.2	1.10 V	89	36.9	-3.1
9	4874.00	43.7 PK	74.0	-30.3	1.42 V	9	42.8	0.9
10	4874.00	36.9 AV	54.0	-17.1	1.42 V	9	36.0	0.9
11	*5785.00	110.4 PK			1.14 V	268	108.4	2.0
12	*5785.00	97.0 AV			1.14 V	268	95.0	2.0
13	7311.00	44.2 PK	74.0	-29.8	1.40 V	45	37.2	7.0
14	7311.00	31.7 AV	54.0	-22.3	1.40 V	45	24.7	7.0
15	11570.00	49.1 PK	74.0	-24.9	1.38 V	184	36.2	12.9
16	11570.00	40.0 AV	54.0	-14.0	1.38 V	184	27.1	12.9
17	#17355.00	56.7 PK	68.2	-11.5	1.37 V	34	39.9	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

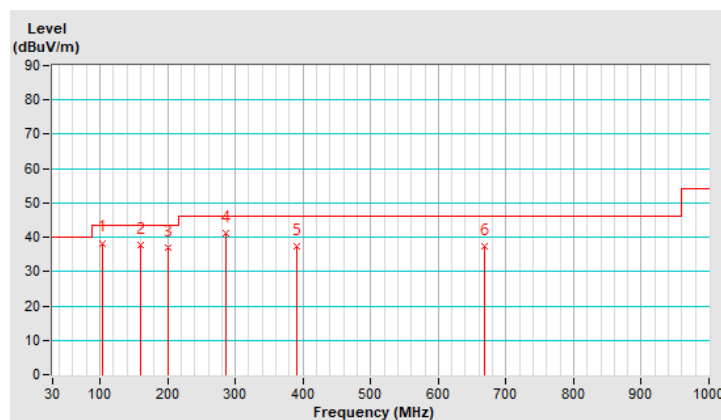
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.00	38.3 QP	43.5	-5.2	2.07 H	360	54.9	-16.6
2	159.60	37.7 QP	43.5	-5.8	1.77 H	226	50.1	-12.4
3	200.40	37.1 QP	43.5	-6.4	1.06 H	241	53.2	-16.1
4	286.70	41.2 QP	46.0	-4.8	1.18 H	356	53.4	-12.2
5	390.30	37.5 QP	46.0	-8.5	1.05 H	136	47.4	-9.9
6	667.60	37.3 QP	46.0	-8.7	1.22 H	238	41.4	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

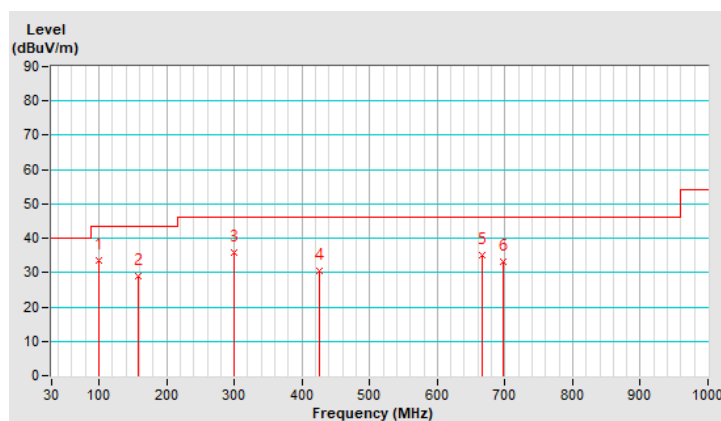


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	99.50	33.4 QP	43.5	-10.1	1.67 V	109	50.5	-17.1
2	158.90	29.1 QP	43.5	-14.4	2.02 V	119	41.6	-12.5
3	299.30	35.8 QP	46.0	-10.2	1.76 V	272	47.8	-12.0
4	425.10	30.6 QP	46.0	-15.4	1.24 V	334	39.4	-8.8
5	666.80	35.1 QP	46.0	-10.9	1.19 V	320	39.2	-4.1
6	697.20	33.1 QP	46.0	-12.9	1.40 V	231	36.7	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



PIFA Antenna

Above 1GHz Data:

Channel	TX Channel 1	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	48.2 PK	74.0	-25.8	1.53 H	217	51.3	-3.1
2	2390.00	35.5 AV	54.0	-18.5	1.53 H	217	38.6	-3.1
3	*2437.00	104.3 PK			1.53 H	217	107.3	-3.0
4	*2437.00	94.8 AV			1.53 H	217	97.8	-3.0
5	*2440.00	104.3 PK			1.53 H	217	107.3	-3.0
6	*2440.00	94.8 AV			1.53 H	217	97.8	-3.0
7	2483.50	52.8 PK	74.0	-21.2	1.53 H	217	55.9	-3.1
8	2483.50	38.0 AV	54.0	-16.0	1.53 H	217	41.1	-3.1
9	4874.00	42.1 PK	74.0	-31.9	1.84 H	171	41.2	0.9
10	4874.00	39.2 AV	54.0	-14.8	1.84 H	171	38.3	0.9
11	*5785.00	112.2 PK			2.60 H	3	110.2	2.0
12	*5785.00	103.4 AV			2.60 H	3	101.4	2.0
13	7311.00	46.3 PK	74.0	-27.7	1.62 H	150	39.3	7.0
14	7311.00	38.8 AV	54.0	-15.2	1.62 H	150	31.8	7.0
15	11570.00	50.0 PK	74.0	-24.0	3.22 H	4	37.1	12.9
16	11570.00	40.2 AV	54.0	-13.8	3.22 H	4	27.3	12.9
17	#17355.00	56.2 PK	68.2	-12.0	1.23 H	42	39.4	16.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.9 PK	74.0	-19.1	1.47 V	360	58.0	-3.1
2	2390.00	38.4 AV	54.0	-15.6	1.47 V	360	41.5	-3.1
3	*2437.00	109.0 PK			1.47 V	360	112.0	-3.0
4	*2437.00	99.8 AV			1.47 V	360	102.8	-3.0
5	*2440.00	109.0 PK			1.47 V	360	112.0	-3.0
6	*2440.00	99.8 AV			1.47 V	360	102.8	-3.0
7	2483.50	52.3 PK	74.0	-21.7	1.47 V	360	55.4	-3.1
8	2483.50	38.5 AV	54.0	-15.5	1.47 V	360	41.6	-3.1
9	4874.00	42.6 PK	74.0	-31.4	1.72 V	230	41.7	0.9
10	4874.00	40.4 AV	54.0	-13.6	1.72 V	230	39.5	0.9
11	#5785.00	108.9 PK			1.17 V	130	106.9	2.0
12	#5785.00	100.5 AV			1.17 V	130	98.5	2.0
13	7311.00	47.7 PK	74.0	-26.3	1.58 V	196	40.7	7.0
14	7311.00	41.4 AV	54.0	-12.6	1.58 V	196	34.4	7.0
15	11570.00	48.9 PK	74.0	-25.1	3.33 V	5	36.0	12.9
16	11570.00	38.9 AV	54.0	-15.1	3.33 V	5	26.0	12.9
17	#17355.00	55.1 PK	68.2	-13.1	1.21 V	16	38.3	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

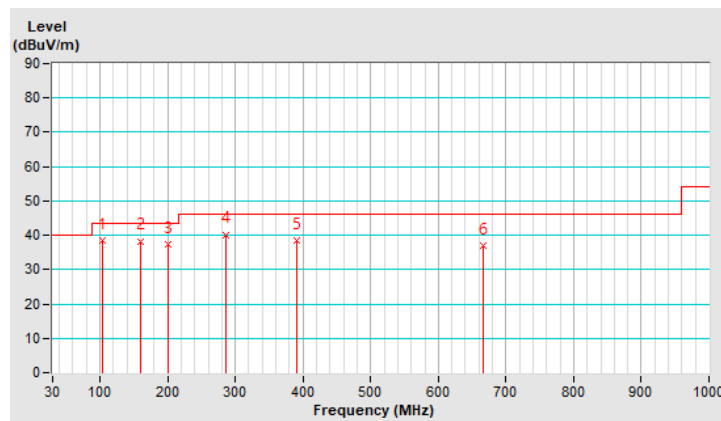
Below 1GHz Data:

FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	103.50	38.5 QP	43.5	-5.0	2.07 H	360	55.0	-16.5
2	159.10	38.3 QP	43.5	-5.2	1.77 H	226	50.8	-12.5
3	199.80	37.3 QP	43.5	-6.2	1.06 H	241	53.4	-16.1
4	286.00	40.2 QP	46.0	-5.8	1.18 H	356	52.4	-12.2
5	390.70	38.6 QP	46.0	-7.4	1.05 H	136	48.4	-9.8
6	666.40	37.0 QP	46.0	-9.0	1.22 H	238	41.1	-4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

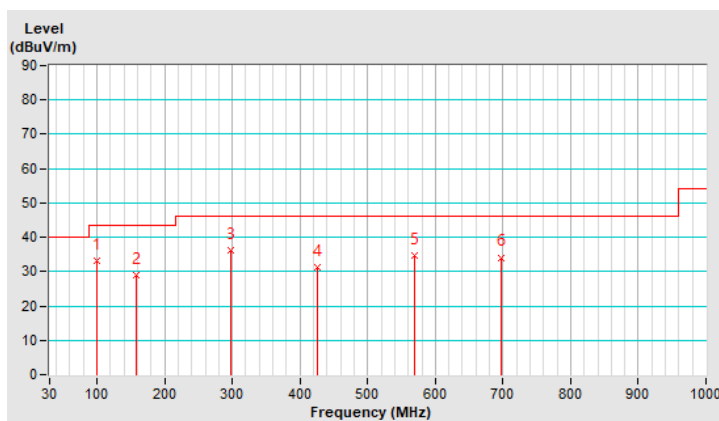


FREQUENCY RANGE	9kHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.50	33.0 QP	43.5	-10.5	1.64 V	69	50.1	-17.1
2	158.50	28.8 QP	43.5	-14.7	2.07 V	123	41.3	-12.5
3	298.30	36.2 QP	46.0	-9.8	1.71 V	287	48.2	-12.0
4	425.10	31.4 QP	46.0	-14.6	1.23 V	337	40.2	-8.8
5	570.20	34.8 QP	46.0	-11.2	1.15 V	294	40.8	-6.0
6	697.10	34.1 QP	46.0	-11.9	1.30 V	237	37.7	-3.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Sep. 02, 2020

4.2.3 Test Procedures

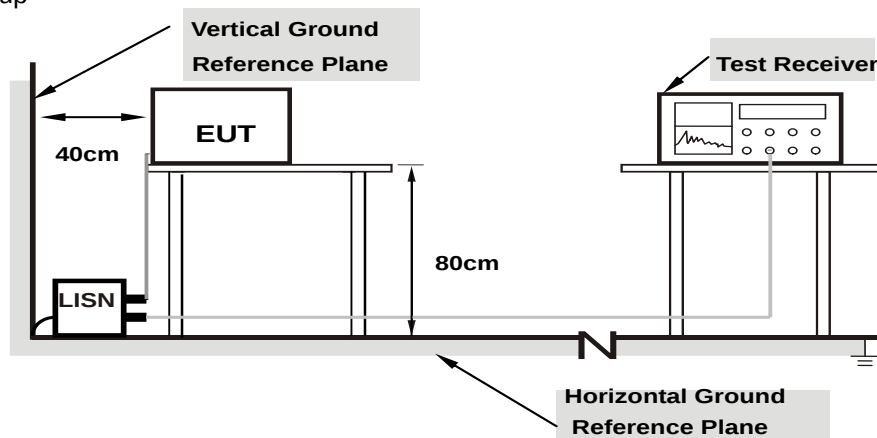
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

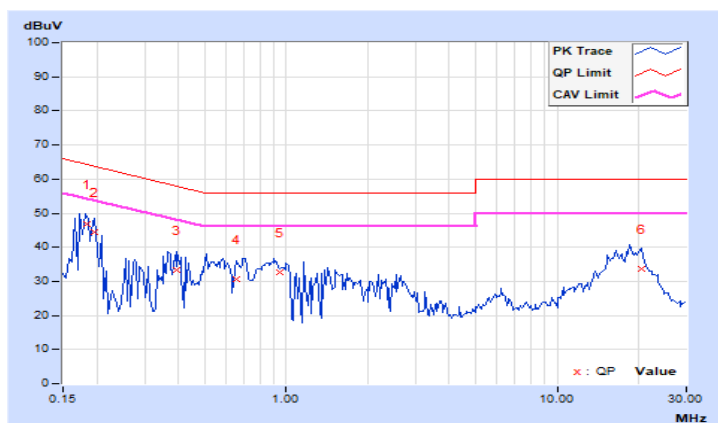
4.2.7 Test Results (Mode 1)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18450	9.97	36.80	14.25	46.77	24.22	64.28	54.28	-17.51	-30.06
2	0.19687	9.97	34.56	15.20	44.53	25.17	63.74	53.74	-19.21	-28.57
3	0.39405	9.98	23.41	9.38	33.39	19.36	57.98	47.98	-24.59	-28.62
4	0.65860	10.00	20.52	5.48	30.52	15.48	56.00	46.00	-25.48	-30.52
5	0.95000	10.02	22.60	8.27	32.62	18.29	56.00	46.00	-23.38	-27.71
6	20.58603	11.07	22.71	16.72	33.78	27.79	60.00	50.00	-26.22	-22.21

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

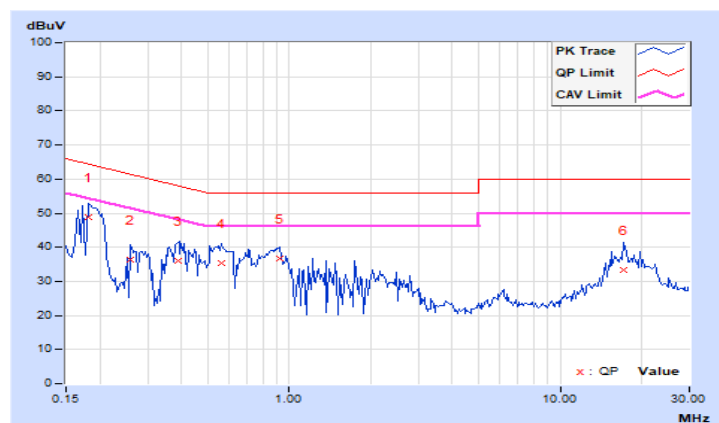


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	9.97	38.88	16.28	48.85	26.25	64.43	54.43	-15.58	-28.18
2	0.25938	9.97	26.23	1.56	36.20	11.53	61.45	51.45	-25.25	-39.92
3	0.38828	9.98	26.03	10.80	36.01	20.78	58.10	48.10	-22.09	-27.32
4	0.56016	9.99	25.43	8.05	35.42	18.04	56.00	46.00	-20.58	-27.96
5	0.92344	10.01	26.62	12.25	36.63	22.26	56.00	46.00	-19.37	-23.74
6	17.21875	10.69	22.55	15.54	33.24	26.23	60.00	50.00	-26.76	-23.77

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



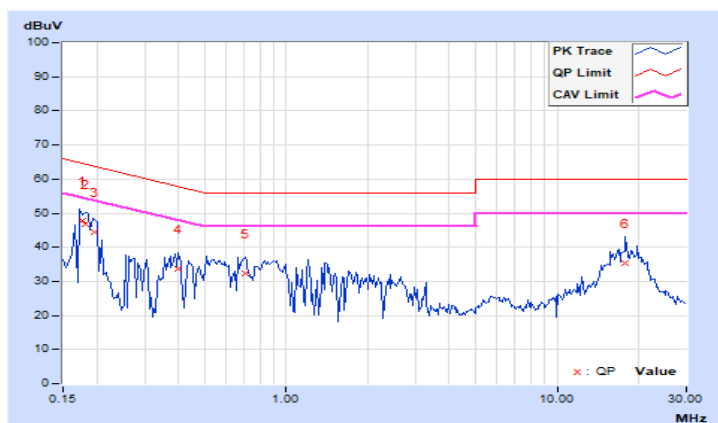
4.2.8 Test Results (Mode 2)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17585	9.97	37.78	12.41	47.75	22.38	64.68	54.68	-16.93	-32.30
2	0.18245	9.97	36.84	14.52	46.81	24.49	64.37	54.37	-17.56	-29.88
3	0.19574	9.97	34.42	15.10	44.39	25.07	63.79	53.79	-19.40	-28.72
4	0.40015	9.98	23.85	10.60	33.83	20.58	57.85	47.85	-24.02	-27.27
5	0.70526	10.00	22.47	7.71	32.47	17.71	56.00	46.00	-23.53	-28.29
6	17.91115	10.93	24.57	17.41	35.50	28.34	60.00	50.00	-24.50	-21.66

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

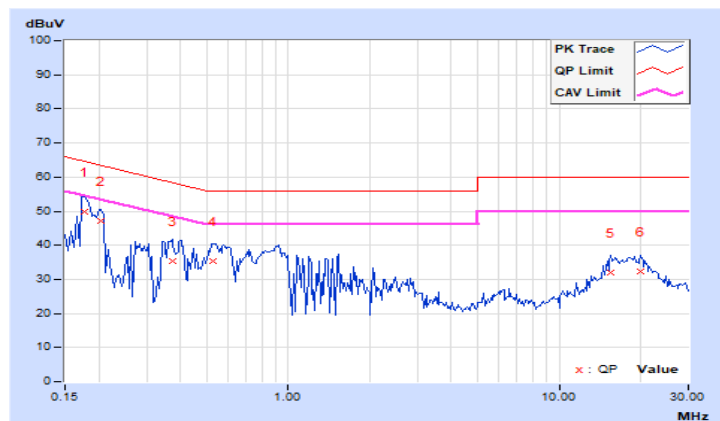


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17794	9.97	39.89	16.59	49.86	26.56	64.58	54.58	-14.72	-28.02
2	0.20419	9.97	37.24	17.23	47.21	27.20	63.44	53.44	-16.23	-26.24
3	0.37246	9.98	25.35	8.87	35.33	18.85	58.45	48.45	-23.12	-29.60
4	0.52851	9.99	25.45	6.89	35.44	16.88	56.00	46.00	-20.56	-29.12
5	15.55819	10.62	21.41	15.71	32.03	26.33	60.00	50.00	-27.97	-23.67
6	19.92118	10.80	21.41	14.71	32.21	25.51	60.00	50.00	-27.79	-24.49

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



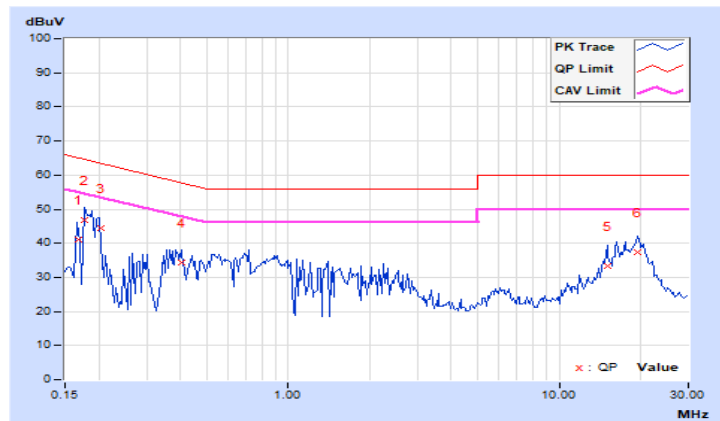
4.2.9 Test Results (Mode 3)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16762	9.97	31.24	3.52	41.21	13.49	65.08	55.08	-23.87	-41.59
2	0.17644	9.97	36.89	14.74	46.86	24.71	64.65	54.65	-17.79	-29.94
3	0.20278	9.97	34.54	15.38	44.51	25.35	63.50	53.50	-18.99	-28.15
4	0.40585	9.98	24.53	11.27	34.51	21.25	57.73	47.73	-23.22	-26.48
5	15.04745	10.77	22.43	13.91	33.20	24.68	60.00	50.00	-26.80	-25.32
6	19.55541	11.03	26.47	19.55	37.50	30.58	60.00	50.00	-22.50	-19.42

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

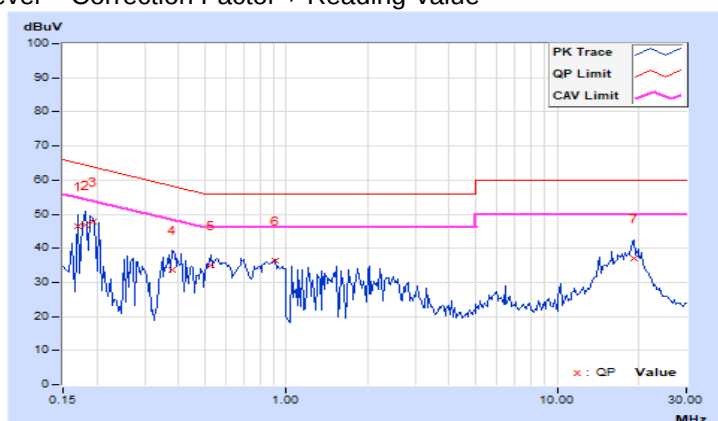


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	9.97	36.51	9.95	46.48	19.92	64.98	54.98	-18.50	-35.06
2	0.18125	9.97	36.90	14.46	46.87	24.43	64.43	54.43	-17.56	-30.00
3	0.19297	9.97	37.75	16.74	47.72	26.71	63.91	53.91	-16.19	-27.20
4	0.38047	9.98	23.65	8.16	33.63	18.14	58.27	48.27	-24.64	-30.13
5	0.52500	9.99	24.97	6.84	34.96	16.83	56.00	46.00	-21.04	-29.17
6	0.91563	10.01	26.34	10.91	36.35	20.92	56.00	46.00	-19.65	-25.08
7	19.14063	10.77	26.22	19.07	36.99	29.84	60.00	50.00	-23.01	-20.16

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



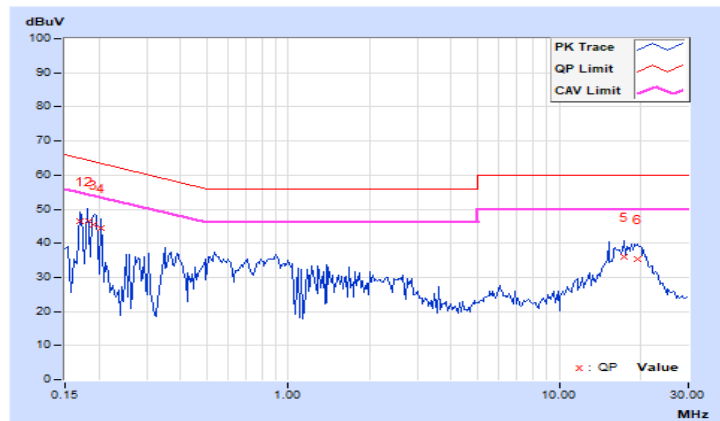
4.2.10 Test Results (Mode 4)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16956	9.97	36.37	9.82	46.34	19.79	64.98	54.98	-18.64	-35.19
2	0.18325	9.97	36.62	13.85	46.59	23.82	64.34	54.34	-17.75	-30.52
3	0.19217	9.97	35.38	15.24	45.35	25.21	63.94	53.94	-18.59	-28.73
4	0.20399	9.97	34.52	12.97	44.49	22.94	63.45	53.45	-18.96	-30.51
5	17.40434	10.90	25.25	17.42	36.15	28.32	60.00	50.00	-23.85	-21.68
6	19.50751	11.02	24.41	19.15	35.43	30.17	60.00	50.00	-24.57	-19.83

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

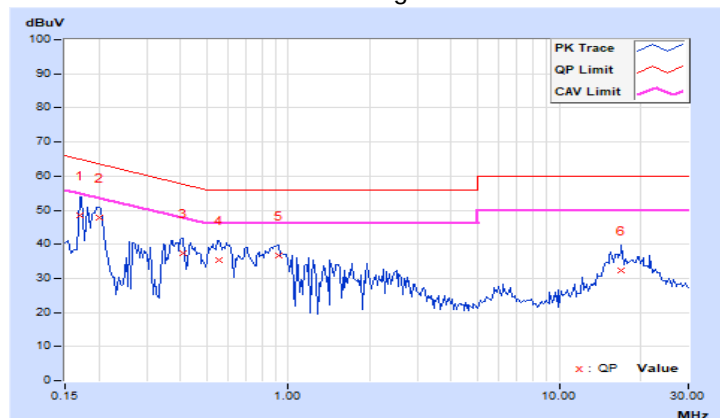


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16999	9.97	38.51	11.20	48.48	21.17	64.96	54.96	-16.48	-33.79
2	0.20058	9.97	37.88	18.25	47.85	28.22	63.59	53.59	-15.74	-25.37
3	0.40771	9.98	27.45	13.74	37.43	23.72	57.69	47.69	-20.26	-23.97
4	0.55638	9.99	25.50	7.68	35.49	17.67	56.00	46.00	-20.51	-28.33
5	0.92357	10.01	26.80	12.37	36.81	22.38	56.00	46.00	-19.19	-23.62
6	17.03174	10.68	21.61	15.93	32.29	26.61	60.00	50.00	-27.71	-23.39

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



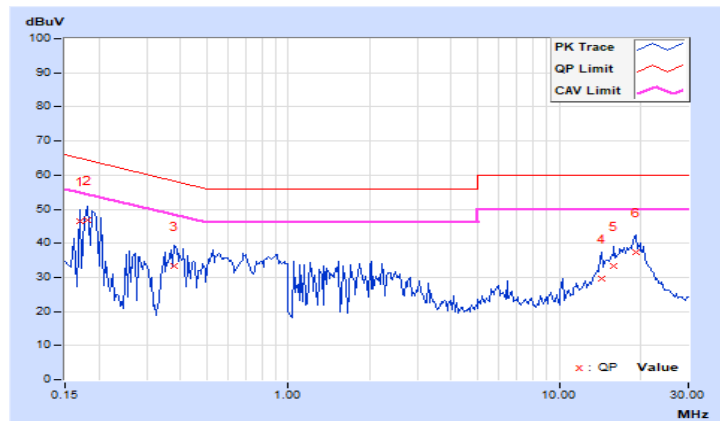
4.2.11 Test Results (Mode 5)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16929	9.97	36.44	9.75	46.41	19.72	65.00	55.00	-18.59	-35.28
2	0.18225	9.97	36.98	14.16	46.95	24.13	64.38	54.38	-17.43	-30.25
3	0.38147	9.98	23.41	8.56	33.39	18.54	58.25	48.25	-24.86	-29.71
4	14.43450	10.74	18.85	11.41	29.59	22.15	60.00	50.00	-30.41	-27.85
5	15.97856	10.82	22.41	15.92	33.23	26.74	60.00	50.00	-26.77	-23.26
6	19.16063	11.00	26.28	19.27	37.28	30.27	60.00	50.00	-22.72	-19.73

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

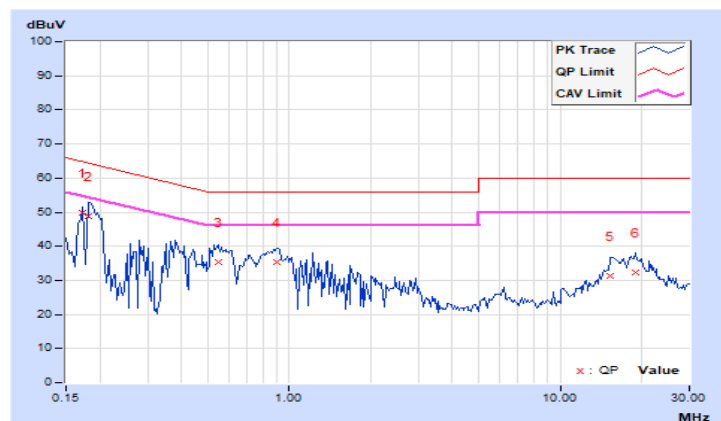


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	--------------------------------

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	9.97	39.86	15.04	49.83	25.01	64.79	54.79	-14.96	-29.78
2	0.18125	9.97	38.96	16.74	48.93	26.71	64.43	54.43	-15.50	-27.72
3	0.54844	9.99	25.37	7.63	35.36	17.62	56.00	46.00	-20.64	-28.38
4	0.90391	10.01	25.43	9.43	35.44	19.44	56.00	46.00	-20.56	-26.56
5	15.32422	10.61	20.82	14.24	31.43	24.85	60.00	50.00	-28.57	-25.15
6	18.87500	10.76	21.45	15.53	32.21	26.29	60.00	50.00	-27.79	-23.71

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



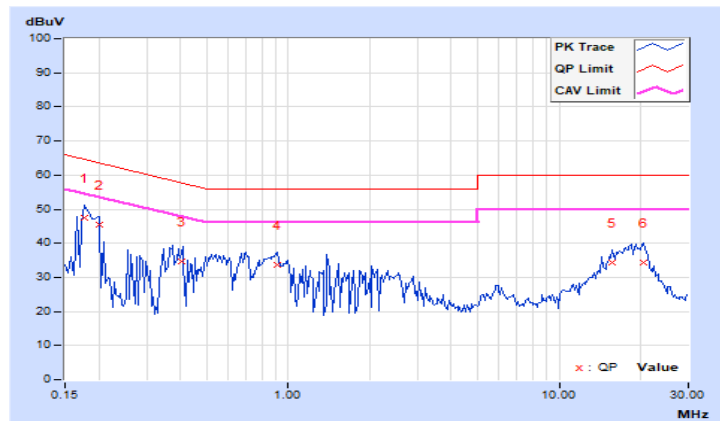
4.2.12 Test Results (Mode 6)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17634	9.97	37.53	14.05	47.50	24.02	64.66	54.66	-17.16	-30.64
2	0.20098	9.97	35.41	15.20	45.38	25.17	63.57	53.57	-18.19	-28.40
3	0.40581	9.98	24.55	10.68	34.53	20.66	57.73	47.73	-23.20	-27.07
4	0.91372	10.01	23.70	9.71	33.71	19.72	56.00	46.00	-22.29	-26.28
5	15.76222	10.81	23.54	15.80	34.35	26.61	60.00	50.00	-25.65	-23.39
6	20.54597	11.07	23.20	16.84	34.27	27.91	60.00	50.00	-25.73	-22.09

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

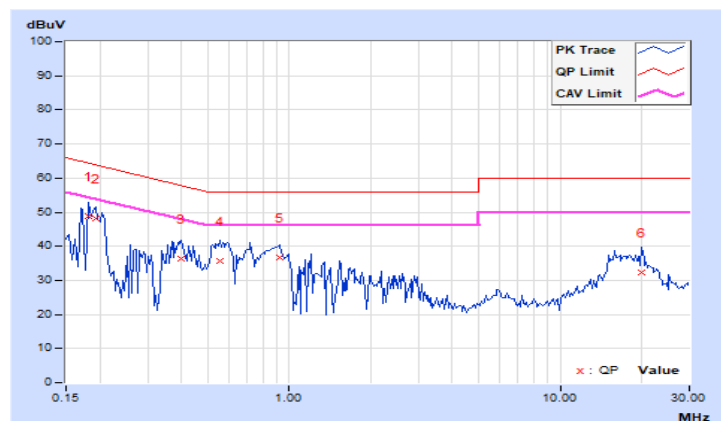


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	9.97	38.86	16.64	48.83	26.61	64.43	54.43	-15.60	-27.82
2	0.19297	9.97	38.01	16.82	47.98	26.79	63.91	53.91	-15.93	-27.12
3	0.40000	9.98	26.49	12.18	36.47	22.16	57.85	47.85	-21.38	-25.69
4	0.55234	9.99	25.67	7.81	35.66	17.80	56.00	46.00	-20.34	-28.20
5	0.92734	10.02	26.82	11.07	36.84	21.09	56.00	46.00	-19.16	-24.91
6	19.89844	10.80	21.44	15.05	32.24	25.85	60.00	50.00	-27.76	-24.15

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

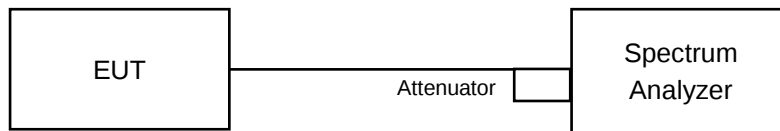


4.3 Conducted Out of Band Emission Measurement

4.3.1 Limits of Conducted Out of Band Emission Measurement

Below 30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedures

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.3.5 Deviation from Test Standard

No deviation.

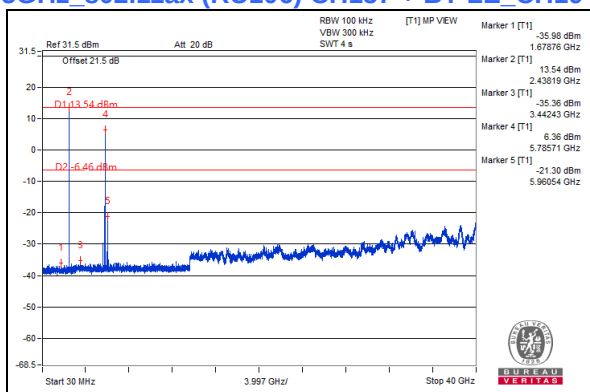
4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

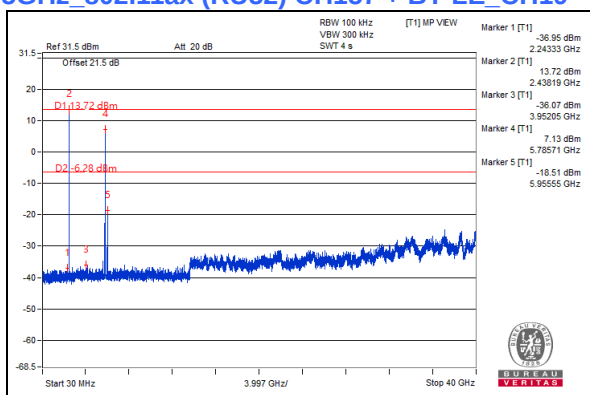
4.3.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

5GHz_802.11ax (RU106) CH157 + BT-LE_CH19



5GHz_802.11ax (RU52) CH157 + BT-LE_CH19



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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