

FCC Test Report

(Co-located)

Report No.: RFBFJZ-WTW-P22040598-8

FCC ID: V65E4811

Test Model: E4811

Series Model: E4811NC (refer to item 3.1 for more details)

Received Date: 2022/4/22

Test Date: 2022/8/11 ~ 2022/8/17

Issued Date: 2022/9/12

Applicant: Kyocera Corporation % Kyocera International, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location (2): B2F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231,
Taiwan

FCC Registration / 788550 / TW0003

Designation Number: 427177 / TW0011



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Release Control Record

Issue No.	Description	Date Issued
RFBFJZ-WTW-P22040598-8	Original Release	2022/9/12

1 Certificate of Conformity

Product: Feature Phone

Brand: Kyocera

Test Model: E4811

Series Model: E4811NC (refer to item 3.1 for more details)

Sample Status: Identical Prototype

Applicant: Kyocera Corporation % Kyocera International, Inc.

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

FCC Part 22, Subpart H

FCC Part 24, Subpart E

FCC Part 27, Subpart C, H, F, L

FCC Part 2

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 RF characteristics under the conditions specified in this report.

Prepared by :

Lena Wang

Date:

2022/9/12

Lena Wang / Specialist

Approved by :

Jeremy Lin

Date:

2022/9/12

Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407) FCC Part 22, Subpart H FCC Part 24, Subpart E FCC Part 27, Subpart C, H, F, L FCC Part 2			
FCC Clause	Test Item	Result	Remarks
15.205 / 15.209 / 15.247(d) / 15.407(b) (1/2/3/4(i/ii)/9)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -5.6 dB at 5460.00 MHz.
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -34.82 dB at 1673.00 MHz.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -39.30 dB at 3760.00 MHz.
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -36.85 dB at 401.51 MHz.

Note:

1. 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) (±)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.0400 dB
	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Feature Phone	
Brand	Kyocera	
Test Model	E4811	
Series Model	E4811NC	
Status of EUT	Identical Prototype	
Power Supply	5 Vdc (from adapter)	
Rating	3.8 Vdc (from Li-ion battery)	
Modulation Type	WLAN	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK
	BT EDR	GFSK, $\pi/4$ -DQPSK, 8DPSK
	BT LE	GFSK
	WCDMA	BPSK, QPSK
	HSDPA	BPSK
	HSUPA	QPSK
	LTE	QPSK, 16QAM
Data Rate	WLAN	2.4G: 802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 72.2 Mbps 5G: 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to 200 Mbps 802.11ac: up to 433.3 Mbps
	BT EDR	1/2/3 Mbps
	BT LE	Up to 2 Mbps
Operating Frequency	WLAN	2412 ~ 2462 MHz 5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825 MHz
	BT	2402 ~ 2480 MHz
	WCDMA Band 2	1852.4 ~ 1907.6 MHz
	WCDMA Band 4	1712.4 ~ 1752.6 MHz
	WCDMA Band 5	826.4 ~ 846.6 MHz
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz

	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	1710.7 ~ 1754.3 MHz
	LTE Band 4 (Channel Bandwidth: 3 MHz)	1711.5 ~ 1753.5 MHz
	LTE Band 4 (Channel Bandwidth: 5 MHz)	1712.5 ~ 1752.5 MHz
	LTE Band 4 (Channel Bandwidth: 10 MHz)	1715.0 ~ 1750.0 MHz
	LTE Band 4 (Channel Bandwidth: 15 MHz)	1717.5 ~ 1747.5 MHz
	LTE Band 4 (Channel Bandwidth: 20 MHz)	1720.0 ~ 1745.0 MHz
	LTE Band 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE Band 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE Band 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE Band 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE Band 12 (Channel Bandwidth: 1.4 MHz)	699.7 ~ 715.3 MHz
	LTE Band 12 (Channel Bandwidth: 3 MHz)	700.5 ~ 714.5 MHz
	LTE Band 12 (Channel Bandwidth: 5 MHz)	701.5 ~ 713.5 MHz
	LTE Band 12 (Channel Bandwidth: 10 MHz)	704.0 ~ 711.0 MHz
	LTE Band 13 (Channel Bandwidth: 5 MHz)	779.5 ~ 784.5 MHz
	LTE Band 13 (Channel Bandwidth: 10 MHz)	782.0 MHz
Number of Channel	WLAN	2412 ~ 2462 MHz 802.11b, 802.11g, 802.11n (HT20): 11 5180 ~ 5825 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 24 802.11n (HT40), 802.11ac (VHT40): 11 802.11ac (VHT80): 5
	BT EDR	79
	BT LE	40
Antenna Type	Refer to Note as below	
Antenna	N/A	

Connector	
Accessory Device	Refer to Note as below
Data Cable Supplied	N/A

Note:

1. The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	TX & RX Configuration	
802.11a	1TX	1RX
802.11b	1TX	1RX
802.11g	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ac (VHT40)	1TX	1RX
802.11ac (VHT80)	1TX	1RX

2. All models are listed as below. The model of E4811 was chosen for final test.

Brand	Model	Difference
Kyocera	E4811	with Camera function
	E4811NC	without Camera function

3. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Kyocera	SCP-47ADT	I/P: 100-240 Vac, 50/60 Hz, 200 mA O/P: 5 Vdc, 1000 mA
Battery	Kyocera	SCP-73LBPS	3.8 Vdc, 1770 mAh, 6.8Wh
USB Cable	Kyocera	SCP-24SDC	1 m shielded Type A to Type C USB cable w/o core

4. The antenna information is listed as below.

WWAN Antenna								
Antenna Type	Internal fixed monopole							
Band	WCDMA			LTE				
	II	IV	V	2	4	5	12	13
Gain	0.51	2.19	-2.42	0.51	2.19	-2.42	-3.96	-0.86

WLAN Antenna		
Antenna Type	Antenna Gain (dBi)	
	BT/WLAN 2.4 GHz	5180 ~ 5825 MHz
Internal fixed monopole	-1.05	3.79

5. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

6. 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.

3.2 Description of Test Modes

For 2.4G

11 channels are provided for 802.11b, 802.11g, and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

BT EDR:

79 channels are provided for BT-EDR:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

BT LE:

40 channels are provided for BT-LE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to		Description
	RE≥1G	RE<1G	
-	√	√	-

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement

RE<1G: Radiated Emission below 1GHz

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

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation Technology
-	802.11b + LTE B5	2412 ~ 2462	1, 6, 11	6 + 20525	DBPSK
		829 ~ 844	20450, 20525, 20600		QPSK
-	802.11b + LTE B2	2412 ~ 2462	1, 6, 11	6 + 18900	DBPSK
		1860 ~ 1900	18700, 18900, 19100		QPSK
-	802.11b + LTE B4	2412 ~ 2462	1, 6, 11	6 + 20175	DBPSK
		1720 ~ 1745	20050, 20175, 20300		QPSK
-	BT EDR + LTE B5	2402 ~ 2480	0, 39, 78	0 + 20525	GFSK
		829 ~ 844	20450, 20525, 20600		QPSK
-	BT EDR + LTE B2	2402 ~ 2480	0, 39, 78	0 + 18900	GFSK
		1860 ~ 1900	18700, 18900, 19100		QPSK
-	BT EDR + LTE B4	2402 ~ 2480	0, 39, 78	0 + 20175	GFSK
		1720 ~ 1745	20050, 20175, 20300		QPSK
-	BT EDR + 802.11a + LTE B5	2402 ~ 2480	0, 39, 78	0 + 116 + 20525	GFSK
		5500 ~ 5720	100, 116, 140, 144		BPSK
		829 ~ 844	20450, 20525, 20600		QPSK
-	BT EDR + 802.11a + LTE B2	2402 ~ 2480	0, 39, 78	0 + 116 + 18900	GFSK
		5500 ~ 5720	100, 116, 140, 144		BPSK
		1860 ~ 1900	18700, 18900, 19100		QPSK
-	BT EDR + 802.11a + LTE B4	2402 ~ 2480	0, 39, 78	0 + 116 + 20175	GFSK
		5500 ~ 5720	100, 116, 140, 144		BPSK
		1720 ~ 1745	20050, 20175, 20300		QPSK

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Mode	Freq. Range (MHz)	Available Channel	Tested Channel	Modulation Technology
-	802.11b + LTE B5	2412 ~ 2462	1, 6, 11	6 + 20525	DBPSK
		829 ~ 844	20450, 20525, 20600		QPSK
-	802.11b + LTE B2	2412 ~ 2462	1, 6, 11	6 + 18900	DBPSK
		1860 ~ 1900	18700, 18900, 19100		QPSK
-	802.11b + LTE B4	2412 ~ 2462	1, 6, 11	6 + 20175	DBPSK
		1720 ~ 1745	20050, 20175, 20300		QPSK
-	BT EDR + LTE B5	2402 ~ 2480	0, 39, 78	0 + 20525	GFSK
		829 ~ 844	20450, 20525, 20600		QPSK
-	BT EDR + LTE B2	2402 ~ 2480	0, 39, 78	0 + 18900	GFSK
		1860 ~ 1900	18700, 18900, 19100		QPSK
-	BT EDR + LTE B4	2402 ~ 2480	0, 39, 78	0 + 20175	GFSK
		1720 ~ 1745	20050, 20175, 20300		QPSK
-	BT EDR + 802.11a + LTE B5	2402 ~ 2480	0, 39, 78	0 + 116 + 20525	GFSK
		5500 ~ 5720	100, 116, 140, 144		BPSK
		829 ~ 844	20450, 20525, 20600		QPSK
-	BT EDR + 802.11a + LTE B2	2402 ~ 2480	0, 39, 78	0 + 116 + 18900	GFSK
		5500 ~ 5720	100, 116, 140, 144		BPSK
		1860 ~ 1900	18700, 18900, 19100		QPSK
-	BT EDR + 802.11a + LTE B4	2402 ~ 2480	0, 39, 78	0 + 116 + 20175	GFSK
		5500 ~ 5720	100, 116, 140, 144		BPSK
		1720 ~ 1745	20050, 20175, 20300		QPSK

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE $\geq$ 1G	24 deg. C, 69 % RH	120 Vac, 60 Hz	Greg Lin
RE<1G	24 deg. C, 69 % RH	120 Vac, 60 Hz	Greg Lin

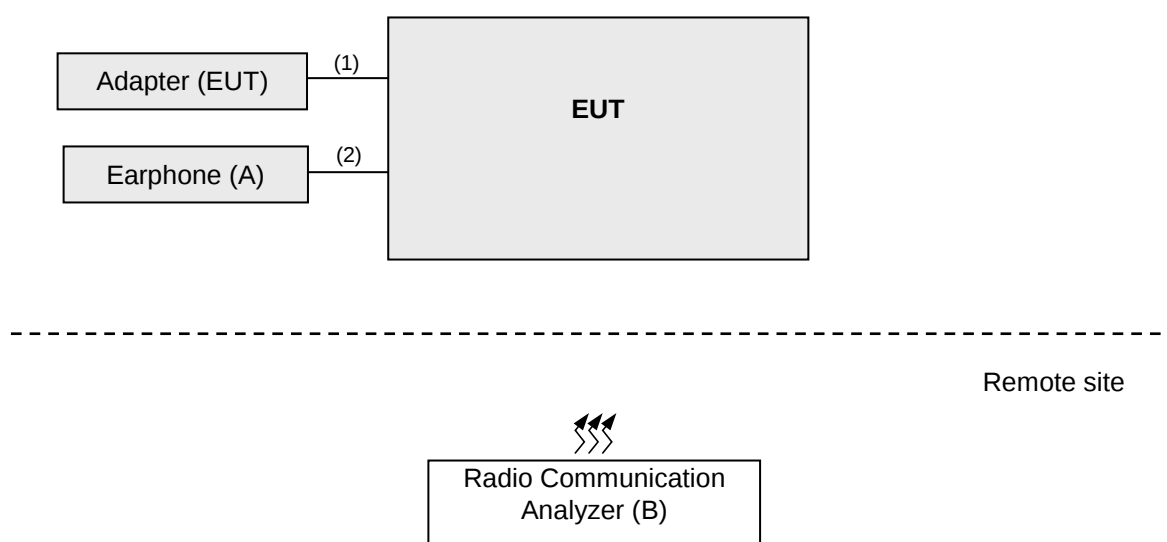
3.3 Description of Support Units

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.

No.	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Earphone	Funkey	FK-130102	NA	N/A	Supplied by applicant
B	Radio Communication Analyzer	Anritsu	MT8821C	6261806803	NA	Supplied by lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1	No	0	Accessory of the EUT
2.	Earphone Cable	1	1	No	0	Supplied by applicant

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart E (15.407)

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

FCC 47 CFR Part 2

FCC 47 CFR Part 22

FCC 47 CFR Part 24

FCC 47 CFR Part 27

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

For WLAN & BT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, 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 20 dB under any condition of modulation.

Limits of Unwanted Emission Out of the Restricted Bands

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/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 (dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
	☐ 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

^{*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:

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

For LTE Band 2 & Band 5

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

For LTE Band 4

According to FCC 27.53(h), for operations in the 1695-1710MHz, 1710-1755MHz, 1755-1780 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY52260177	Sep. 01, 2021	Aug. 31, 2022
Spectrum Analyzer R&S	FSU43	101261	Apr. 11, 2022	Apr. 10, 2023
Horn Antenna ETS-Lindgren	3117	00143293	Nov. 14, 2021	Nov. 13, 2022
Bi_Log Antenna Schwarzbeck	VULB9168	9168-616	Oct. 27, 2021	Oct. 26, 2022
Horn Antenna Schwarzbeck	BBHA 9170	9170-480	Nov. 14, 2021	Nov. 13, 2022
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 05, 2022	Apr. 04, 2023
Loop Antenna EMCI	EM-6879	269	Sep. 16, 2021	Sep. 15, 2022
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2021	Nov. 24, 2022
Preamplifier Agilent	310N	187226	Jun. 14, 2022	Jun. 13, 2023
Preamplifier Agilent	83017A	MY39501357	Jun. 14, 2022	Jun. 13, 2023
Pre-Amplifier EMCI	EMC 184045	980116	Oct. 05, 2021	Oct. 04, 2022
Power Meter Anritsu	ML2495A	1012010	Sep. 09, 2021	Sep. 08, 2022
Power Sensor Anritsu	MA2411B	1315050	Sep. 09, 2021	Sep. 08, 2022
RF Coaxial Cable ETS-Lindgren	EMC104-SM-SM-10000	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4	Jun. 14, 2022	Jun. 13, 2023
RF Coaxial Cable ETS-Lindgren	RFC-SMS-100-SMS-24-IN	Cable-CH1-02(RFC-SMS-100-SMS-24)	Jun. 14, 2022	Jun. 13, 2023
Fix tool for Boresight antenna tower BV	BAF-01	10	NA	NA
E3 Software AUDIX	E3	NA	NA	NA
Software BVADT	ADT_Radiated_V8.7.08	NA	NA	NA
Software BVADT	ADT_RF Test Software V6.6.5.4	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Controller Max-Full	MF-7802	NA	NA	NA
Radio Communication Analyzer Anritsu	MT8820C	6201525832	Jan. 25, 2022	Jan. 24, 2023

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 HsinTien 966 chamber 6

4.1.3 Test Procedures

For WLAN & BT

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 amplitude attenuation of spurious emissions in the frequency range 9 kHz to 30 MHz exceeds the allowable value of the limit by more than 20 dB and is not required to be reported.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e. 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.
- f. 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.
2. The amplitude attenuation of spurious emissions in the frequency range 9 kHz to 30 MHz exceeds the allowable value of the limit by more than 20 dB and is not required to be reported.
- 3.

For Radiated emission above 30MHz

1. 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.
2. 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.
3. 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.
4. 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.
5. The test-receiver system was set to peak and average detect 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.

For WWAN

1. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. 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.
3. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
4. Following C63.26 section 5.5 and 5.2.7
$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8;$$
 where D is the measurement distance (in the far field region) in m.
$$\text{ERP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15;$$
 where D is the measurement distance (in the far field region) in m.

NOTE:

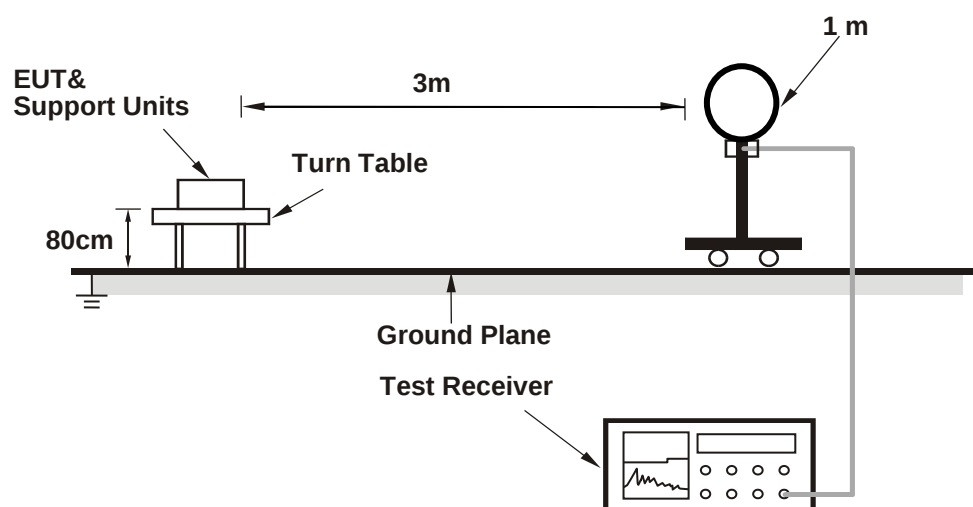
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The amplitude attenuation of spurious emissions in the frequency range 9 kHz to 30 MHz exceeds the allowable value of the limit by more than 20 dB and is not required to be reported.

4.1.4 Deviation from Test Standard

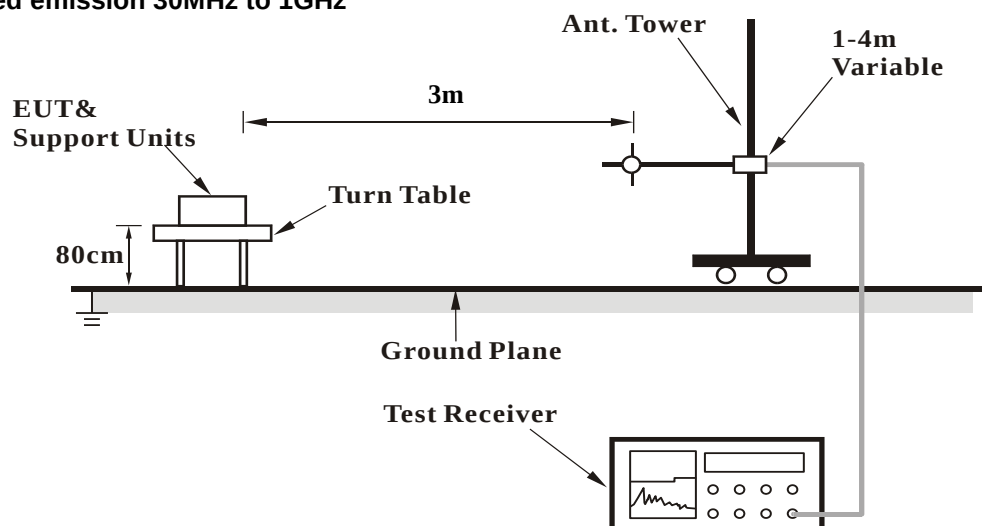
No deviation.

4.1.5 Test Setup

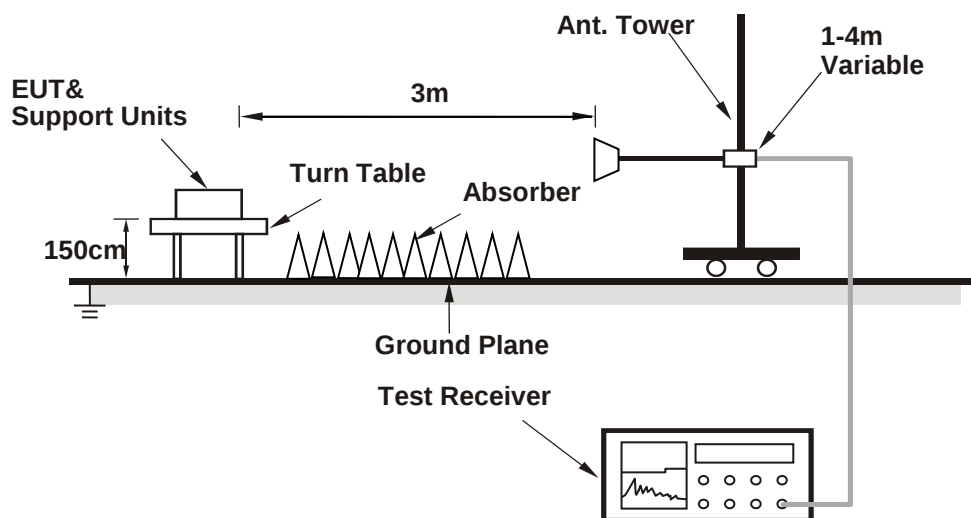
For Radiated emission below 30MHz



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

1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1 GHz Data :

802.11b + LTE B5

Channel	Ch 6 + Ch20525	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 25GHz		

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	*2437.00	103.8 PK			1.89 H	155	71.8	32.0
2	*2437.00	102.1 AV			1.89 H	155	70.1	32.0
3	4874.00	50.3 PK	74.0	-23.7	2.20 H	136	47.1	3.2
4	4874.00	47.7 AV	54.0	-6.3	2.20 H	136	44.5	3.2
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	*2437.00	101.2 PK			1.71 V	100	69.2	32.0
2	*2437.00	100.3 AV			1.71 V	100	68.3	32.0
3	4874.00	49.0 PK	74.0	-25.0	1.79 V	131	45.8	3.2
4	4874.00	42.8 AV	54.0	-11.2	1.79 V	131	39.6	3.2

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.

Channel	Ch 6 + Ch20525	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-49.75	-13.00	-36.75	1.82 H	333	54.20	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-49.95	-13.00	-36.95	1.82 V	333	54.00	-103.95

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

802.11b +LTE B2

Channel	Ch 6 + Ch18900	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 25GHz		

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	*2437.00	104.3 PK			1.82 H	164	72.3	32.0
2	*2437.00	101.8 AV			1.82 H	164	69.8	32.0
3	4874.00	50.2 PK	74.0	-23.8	2.11 H	101	47.0	3.2
4	4874.00	47.5 AV	54.0	-6.5	2.11 H	101	44.3	3.2
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	*2437.00	101.3 PK			1.71 V	93	69.3	32.0
2	*2437.00	100.1 AV			1.71 V	93	68.1	32.0
3	4874.00	49.1 PK	74.0	-24.9	1.63 V	141	45.9	3.2
4	4874.00	42.7 AV	54.0	-11.3	1.63 V	141	39.5	3.2

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.

Channel	Ch 6 + Ch18900	Frequency Range	1GHz ~ 20GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.4	-13.0	-39.4	1.82 H	41	43.0	-95.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.4	-13.0	-39.4	1.64 V	21	43.0	-95.4

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

802.11b + LTE B4

Channel	Ch 6+ Ch20175	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 25GHz		

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	*2437.00	103.5 PK			1.82 H	163	71.5	32.0
2	*2437.00	102.0 AV			1.82 H	163	70.0	32.0
3	4874.00	50.3 PK	74.0	-23.7	2.11 H	113	47.1	3.2
4	4874.00	47.8 AV	54.0	-6.2	2.11 H	113	44.6	3.2
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	*2437.00	101.8 PK			1.82 V	100	69.8	32.0
2	*2437.00	100.3 AV			1.82 V	100	68.3	32.0
3	4874.00	49.0 PK	74.0	-25.0	1.66 V	131	45.8	3.2
4	4874.00	42.5 AV	54.0	-11.5	1.66 V	131	39.3	3.2

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.

Channel	Ch 6 + Ch20175	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-53.2	-13.0	-40.2	1.04 H	153	43.5	-96.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-53.1	-13.0	-40.1	1.04 V	153	43.6	-96.7

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

BT EDR + LTE B5

Channel	Ch0 + Ch20525	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 25GHz		

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	51.8 PK	74.0	-22.2	2.81 H	169	19.8	32.0
2	2390.00	40.7 AV	54.0	-13.3	2.81 H	169	8.7	32.0
3	*2402.00	100.2 PK			2.81 H	169	68.2	32.0
4	*2402.00	69.4 AV			2.81 H	169	37.4	32.0
5	4804.00	49.3 PK	74.0	-24.7	1.51 H	164	46.2	3.1
6	4804.00	18.5 AV	54.0	-35.5	1.51 H	164	15.4	3.1
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	51.2 PK	74.0	-22.8	2.21 V	236	19.2	32.0
2	2390.00	41.3 AV	54.0	-12.7	2.21 V	236	9.3	32.0
3	*2402.00	103.4 PK			2.21 V	236	71.4	32.0
4	*2402.00	72.6 AV			2.21 V	236	40.6	32.0
5	4804.00	49.3 PK	74.0	-24.7	1.90 V	222	46.2	3.1
6	4804.00	18.5 AV	54.0	-35.5	1.90 V	222	15.4	3.1

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.
5. " * ": Fundamental frequency.

Channel	Ch0 + Ch20525	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-48.2	-13.0	-35.2	1.52 H	331	53.6	-101.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-51.8	-13.0	-38.8	1.31 V	141	50.0	-101.8

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

BT EDR + LTE B2

Channel	Ch 0 + Ch18900	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 25GHz		

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	51.8 PK	74.0	-22.2	2.82 H	193	19.8	32.0
2	2390.00	41.0 AV	54.0	-13.0	2.82 H	193	9.0	32.0
3	*2402.00	100.1 PK			2.82 H	193	68.1	32.0
4	*2402.00	69.3 AV			2.82 H	193	37.3	32.0
5	4804.00	49.2 PK	74.0	-24.8	1.54 H	163	46.1	3.1
6	4804.00	18.4 AV	54.0	-35.6	1.54 H	163	15.3	3.1
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	51.3 PK	74.0	-22.7	2.11 V	222	19.3	32.0
2	2390.00	41.4 AV	54.0	-12.6	2.11 V	222	9.4	32.0
3	*2402.00	103.5 PK			2.11 V	222	71.5	32.0
4	*2402.00	72.7 AV			2.11 V	222	40.7	32.0
5	4804.00	49.2 PK	74.0	-24.8	1.00 V	152	46.1	3.1
6	4804.00	18.4 AV	54.0	-35.6	1.00 V	152	15.3	3.1

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.
5. " * ": Fundamental frequency.

Channel	Ch 0 + Ch18900	Frequency Range	1GHz ~ 20GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.5	-13.0	-39.5	1.80 H	55	42.9	-95.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.5	-13.0	-39.5	1.64 V	1	42.9	-95.4

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

BT EDR + LTE B4

Channel	Ch 0 + Ch20175	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 25GHz		

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	51.8 PK	74.0	-22.2	2.71 H	182	19.8	32.0
2	2390.00	40.8 AV	54.0	-13.2	2.71 H	182	8.8	32.0
3	*2402.00	100.2 PK			2.71 H	182	68.2	32.0
4	*2402.00	69.4 AV			2.71 H	182	37.4	32.0
5	4804.00	49.2 PK	74.0	-24.8	1.64 H	131	46.1	3.1
6	4804.00	18.4 AV	54.0	-35.6	1.64 H	131	15.3	3.1
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	51.2 PK	74.0	-22.8	2.14 V	231	19.2	32.0
2	2390.00	41.3 AV	54.0	-12.7	2.14 V	231	9.3	32.0
3	*2402.00	103.4 PK			2.14 V	231	71.4	32.0
4	*2402.00	72.6 AV			2.14 V	231	40.6	32.0
5	4804.00	49.1 PK	74.0	-24.9	1.13 V	167	46.0	3.1
6	4804.00	18.4 AV	54.0	-35.6	1.13 V	167	15.3	3.1

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.
5. " * ": Fundamental frequency.

Channel	Ch 0 + Ch20175	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-53.2	-13.0	-40.2	1.07 H	134	43.5	-96.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-52.1	-13.0	-39.1	1.82 V	82	44.6	-96.7

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

BT EDR + 802.11a + LTE B5

Channel	Ch0 + Ch 116 + Ch20525	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	51.1 PK	74.0	-22.9	2.93 H	202	19.1	32.0
2	2390.00	41.3 AV	54.0	-12.7	2.93 H	202	9.3	32.0
3	*2402.00	100.0 PK			2.93 H	202	68.0	32.0
4	*2402.00	69.2 AV			2.93 H	202	37.2	32.0
5	4804.00	49.1 PK	74.0	-24.9	1.62 H	166	46.0	3.1
6	4804.00	18.3 AV	54.0	-35.7	1.62 H	166	15.2	3.1
7	5460.00	57.8 PK	74.0	-16.2	2.29 H	87	55.5	2.3
8	5460.00	48.4 AV	54.0	-5.6	2.29 H	87	46.1	2.3
9	#5470.00	57.9 PK	68.2	-10.3	2.29 H	87	55.4	2.5
10	#5580.00	105.1 PK			2.29 H	87	64.5	40.6
11	#5580.00	98.6 AV			2.29 H	87	58.0	40.6
12	#5725.00	58.2 PK	68.2	-10.0	2.29 H	87	54.4	3.8
13	11160.00	56.4 PK	74.0	-17.6	2.97 H	153	47.8	8.6
14	11160.00	46.5 AV	54.0	-7.5	2.97 H	153	37.9	8.6

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	51.4 PK	74.0	-22.6	2.93 V	202	19.4	32.0
2	2390.00	41.2 AV	54.0	-12.8	2.93 V	202	9.2	32.0
3	*2402.00	100.2 PK			2.93 V	202	68.2	32.0
4	*2402.00	69.4 AV			2.93 V	202	37.4	32.0
5	4804.00	49.2 PK	74.0	-24.8	1.62 V	166	46.1	3.1
6	4804.00	18.4 AV	54.0	-35.6	1.62 V	166	15.3	3.1
7	5460.00	57.6 PK	74.0	-16.4	2.12 V	209	55.3	2.3
8	5460.00	47.5 AV	54.0	-6.5	2.12 V	209	45.2	2.3
9	#5470.00	57.9 PK	68.2	-10.3	2.12 V	209	55.4	2.5
10	#5580.00	103.4 PK			2.12 V	209	62.8	40.6
11	#5580.00	96.8 AV			2.12 V	209	56.2	40.6
12	#5725.00	58.4 PK	68.2	-9.8	2.12 V	209	54.6	3.8
13	11160.00	56.2 PK	74.0	-17.8	1.27 V	62	47.6	8.6
14	11160.00	46.3 AV	54.0	-7.7	1.27 V	62	37.7	8.6

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Channel	Ch0 + Ch 116 + Ch20525	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-47.82	-13.00	-34.82	2.02 H	304	56.13	-103.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1673.00	-49.34	-13.00	-36.34	1.34 V	323	54.61	-103.95

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

BT EDR + 802.11a +LTE B2

Channel	Ch 0 + Ch 116 + Ch18900	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	51.9 PK	74.0	-22.1	2.93 H	202	19.9	32.0
2	2390.00	41.2 AV	54.0	-12.8	2.93 H	202	9.2	32.0
3	*2402.00	100.2 PK			2.93 H	202	68.2	32.0
4	*2402.00	69.4 AV			2.93 H	202	37.4	32.0
5	4804.00	49.4 PK	74.0	-24.6	1.62 H	166	46.3	3.1
6	4804.00	18.6 AV	54.0	-35.4	1.62 H	166	15.5	3.1
7	5460.00	57.8 PK	74.0	-16.2	2.13 H	93	55.5	2.3
8	5460.00	48.2 AV	54.0	-5.8	2.13 H	93	45.9	2.3
9	#5470.00	58.1 PK	68.2	-10.1	2.13 H	93	55.6	2.5
10	#5580.00	105.2 PK			2.13 H	93	102.3	2.9
11	#5580.00	98.8 AV			2.13 H	93	95.9	2.9
12	#5725.00	58.4 PK	68.2	-9.8	2.13 H	93	54.6	3.8
13	11160.00	56.5 PK	74.0	-17.5	2.81 H	152	47.9	8.6
14	11160.00	46.7 AV	54.0	-7.3	2.81 H	152	38.1	8.6
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	51.1 PK	74.0	-22.9	2.93 V	202	19.1	32.0
2	2390.00	40.9 AV	54.0	-13.1	2.93 V	202	8.9	32.0
3	*2402.00	100.1 PK			2.93 V	202	68.1	32.0
4	*2402.00	69.3 AV			2.93 V	202	37.3	32.0
5	4804.00	49.2 PK	74.0	-24.8	1.62 V	166	46.1	3.1
6	4804.00	18.5 AV	54.0	-35.5	1.62 V	166	15.4	3.1
7	5460.00	57.8 PK	74.0	-16.2	1.92 V	220	55.5	2.3
8	5460.00	46.7 AV	54.0	-7.3	1.92 V	220	44.4	2.3
9	#5470.00	57.9 PK	68.2	-10.3	1.92 V	220	55.4	2.5
10	#5580.00	102.7 PK			1.92 V	220	62.1	40.6
11	#5580.00	96.9 AV			1.92 V	220	56.3	40.6
12	#5725.00	58.6 PK	68.2	-9.6	1.92 V	220	54.8	3.8
13	11160.00	55.8 PK	74.0	-18.2	1.10 V	41	47.2	8.6
14	11160.00	46.3 AV	54.0	-7.7	1.10 V	41	37.7	8.6

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Channel	Ch 0 + Ch 116 + Ch18900	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.30	-13.00	-39.30	1.73 H	63	43.10	-95.40
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-52.40	-13.00	-39.40	1.52 V	3	43.00	-95.40

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

BT EDR + 802.11a + LTE B4

Channel	Ch 0 + 116+ Ch20175	Detector Function	Peak (PK) Average (AV)
Frequency Range	1GHz ~ 40GHz		

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	51.4 PK	74.0	-22.6	2.93 H	202	19.4	32.0
2	2390.00	41.3 AV	54.0	-12.7	2.93 H	202	9.3	32.0
3	*2402.00	100.1 PK			2.93 H	202	68.1	32.0
4	*2402.00	69.3 AV			2.93 H	202	37.3	32.0
5	4804.00	49.5 PK	74.0	-24.5	1.62 H	166	46.4	3.1
6	4804.00	18.7 AV	54.0	-35.3	1.62 H	166	15.6	3.1
7	5460.00	57.7 PK	74.0	-16.3	2.24 H	106	55.4	2.3
8	5460.00	48.1 AV	54.0	-5.9	2.24 H	106	45.8	2.3
9	#5470.00	58.0 PK	68.2	-10.2	2.24 H	106	55.5	2.5
10	#5580.00	105.3 PK			2.24 H	106	102.4	2.9
11	#5580.00	98.6 AV			2.24 H	106	95.7	2.9
12	#5725.00	58.3 PK	68.2	-9.9	2.24 H	106	54.5	3.8
13	11160.00	56.4 PK	74.0	-17.6	2.92 H	157	47.8	8.6
14	11160.00	46.8 AV	54.0	-7.2	2.92 H	157	38.2	8.6

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	51.2 PK	74.0	-22.8	2.93 V	202	19.2	32.0
2	2390.00	41.2 AV	54.0	-12.8	2.93 V	202	9.2	32.0
3	*2402.00	100.3 PK			2.93 V	202	68.3	32.0
4	*2402.00	69.5 AV			2.93 V	202	37.5	32.0
5	4804.00	49.4 PK	74.0	-24.6	1.62 V	166	46.3	3.1
6	4804.00	18.6 AV	54.0	-35.4	1.62 V	166	15.5	3.1
7	5460.00	57.8 PK	74.0	-16.2	2.03 V	218	55.5	2.3
8	5460.00	47.7 AV	54.0	-6.3	2.03 V	218	45.4	2.3
9	#5470.00	58.0 PK	68.2	-10.2	2.03 V	218	55.5	2.5
10	#5580.00	103.5 PK			2.03 V	218	62.9	40.6
11	#5580.00	96.8 AV			2.03 V	218	56.2	40.6
12	#5725.00	58.5 PK	68.2	-9.7	2.03 V	218	54.7	3.8
13	11160.00	55.8 PK	74.0	-18.2	1.16 V	56	47.2	8.6
14	11160.00	45.2 AV	54.0	-8.8	1.16 V	56	36.6	8.6

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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Channel	Ch 0 + 116+ Ch20175	Frequency Range	1GHz ~ 18GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-53.17	-13.00	-40.17	1.18 H	167	43.53	-96.70
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3465.00	-52.47	-13.00	-39.47	1.83 V	81	44.23	-96.70

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data

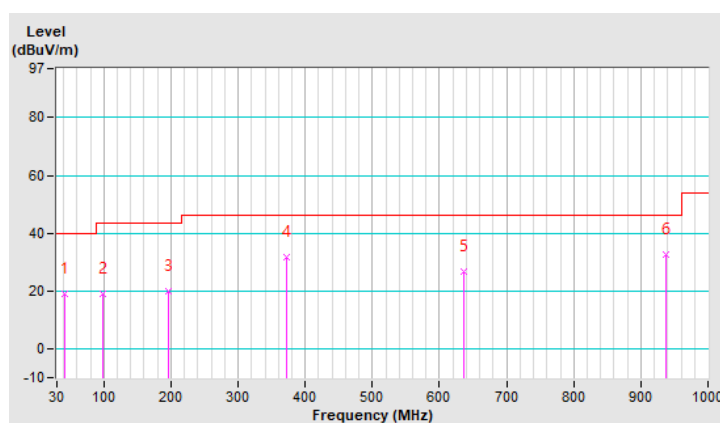
802.11b + LTE B5

Channel	Ch 6 + Ch20525	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	42.61	18.87 QP	40.00	-21.13	1.25 H	2	32.21	-13.34
2	98.87	19.11 QP	43.50	-24.39	1.50 H	39	36.92	-17.81
3	195.87	20.05 QP	43.50	-23.45	1.00 H	181	36.36	-16.31
4	371.44	31.72 QP	46.00	-14.28	1.00 H	130	42.36	-10.64
5	636.25	26.56 QP	46.00	-19.44	1.25 H	130	31.45	-4.89
6	936.95	32.54 QP	46.00	-13.46	1.00 H	230	33.13	-0.59

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.

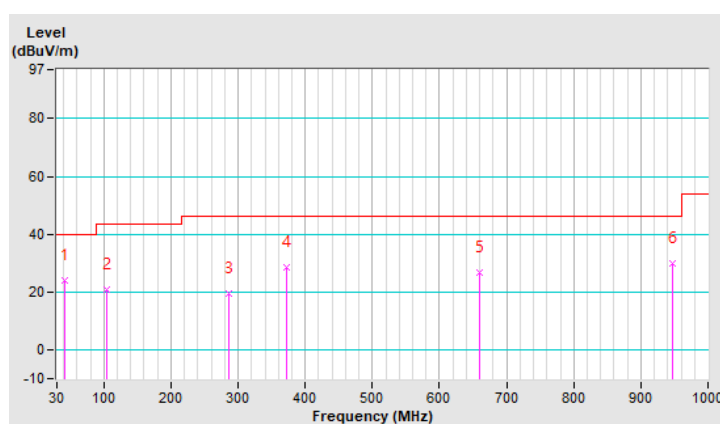


Channel	Ch 6 + Ch20525	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	42.61	23.80 QP	40.00	-16.20	1.25 V	131	37.14	-13.34
2	104.69	21.03 QP	43.50	-22.47	1.25 V	342	37.88	-16.85
3	287.05	19.54 QP	46.00	-26.46	1.00 V	329	32.23	-12.69
4	371.44	28.59 QP	46.00	-17.41	1.00 V	155	39.23	-10.64
5	659.53	26.65 QP	46.00	-19.35	1.00 V	316	31.25	-4.60
6	946.65	29.85 QP	46.00	-16.15	1.50 V	186	30.32	-0.47

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.

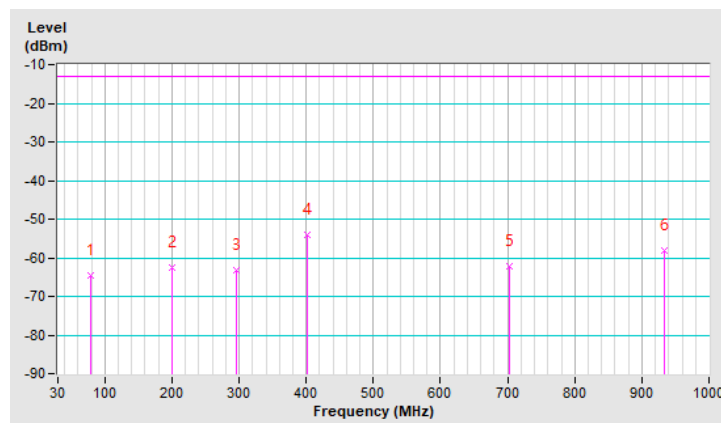


Channel	Ch 6 + Ch20525	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	78.50	-64.56	-13.00	-51.56	1.25 H	148	50.49	-115.05
2	199.75	-62.44	-13.00	-49.44	1.50 H	179	51.35	-113.79
3	296.75	-63.22	-13.00	-50.22	1.25 H	19	46.73	-109.95
4	402.48	-54.19	-13.00	-41.19	1.00 H	68	53.17	-107.36
5	703.18	-62.05	-13.00	-49.05	1.00 H	268	39.27	-101.32
6	933.07	-58.28	-13.00	-45.28	1.50 H	19	39.83	-98.11

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

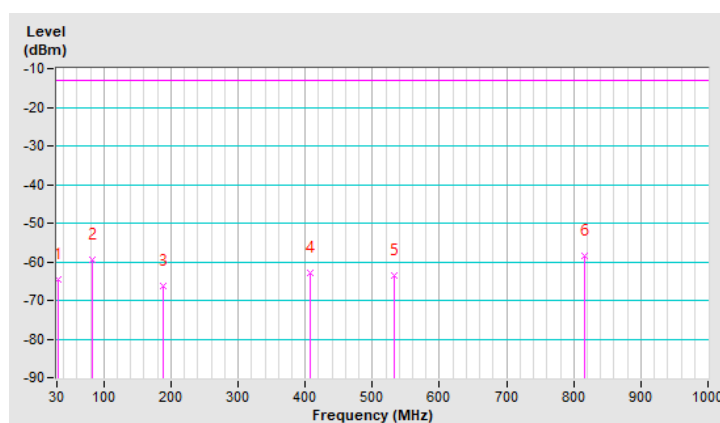


Channel	Ch 6 + Ch20525	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-64.62	-13.00	-51.62	1.25 V	267	47.27	-111.89
2	82.38	-59.40	-13.00	-46.40	1.00 V	2	56.50	-115.90
3	189.08	-66.28	-13.00	-53.28	1.50 V	338	46.88	-113.16
4	408.30	-63.00	-13.00	-50.00	1.25 V	61	44.25	-107.25
5	532.46	-63.45	-13.00	-50.45	1.25 V	270	41.19	-104.64
6	816.67	-58.32	-13.00	-45.32	1.00 V	214	41.60	-99.92

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



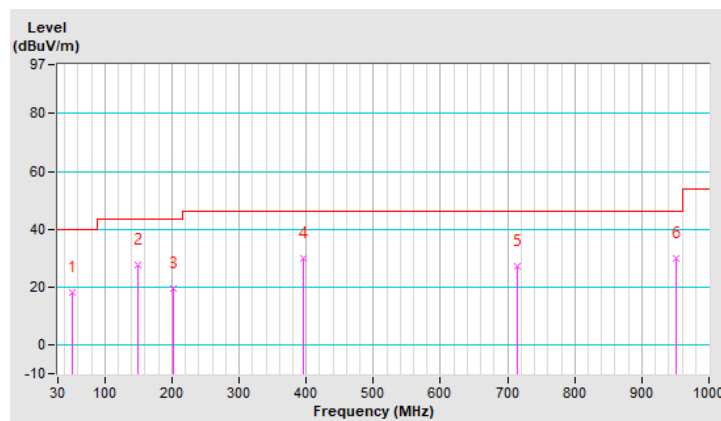
802.11b +LTE B2

Channel	Ch 6 + Ch18900	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	51.34	18.06 QP	40.00	-21.94	1.25 H	267	31.18	-13.12
2	148.34	27.49 QP	43.50	-16.01	1.00 H	351	40.64	-13.15
3	202.66	19.28 QP	43.50	-24.22	1.25 H	182	35.67	-16.39
4	395.69	29.98 QP	46.00	-16.02	1.50 H	269	40.08	-10.10
5	714.82	27.18 QP	46.00	-18.82	1.00 H	15	31.03	-3.85
6	951.50	29.76 QP	46.00	-16.24	1.50 H	121	30.26	-0.50

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.

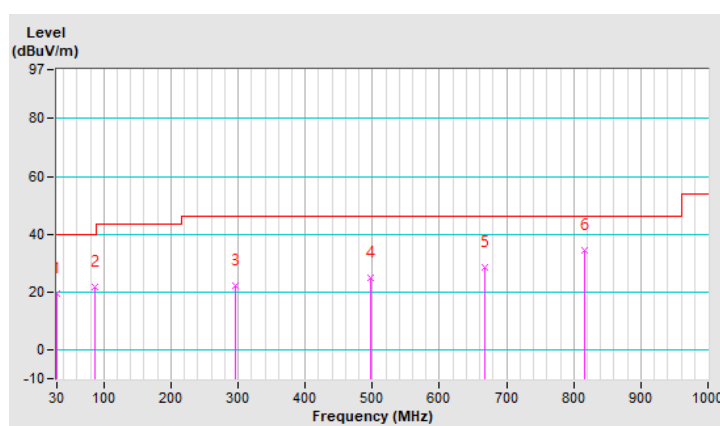


Channel	Ch 6 + Ch18900	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	30.00	19.58 QP	40.00	-20.42	1.25 V	70	33.99	-14.41
2	86.26	21.63 QP	40.00	-18.37	1.00 V	197	40.59	-18.96
3	296.75	22.15 QP	46.00	-23.85	1.50 V	170	34.69	-12.54
4	497.54	24.86 QP	46.00	-21.14	1.00 V	327	32.76	-7.90
5	668.26	28.58 QP	46.00	-17.42	1.00 V	255	33.15	-4.57
6	816.67	34.59 QP	46.00	-11.41	1.25 V	206	37.10	-2.51

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.

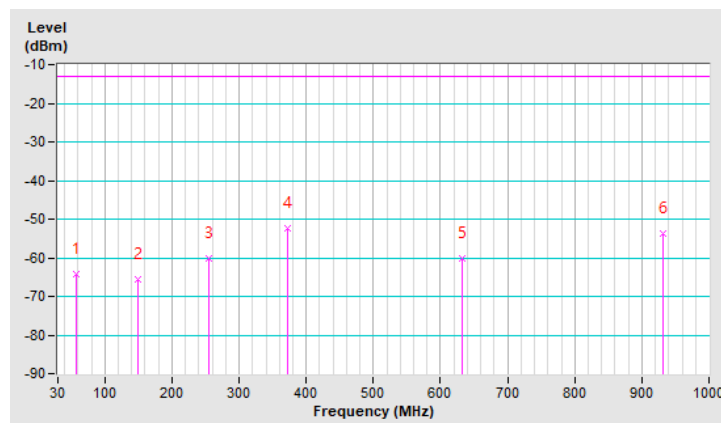


Channel	Ch 6 + Ch18900	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	57.16	-64.10	-13.00	-51.10	1.00 H	2	44.84	-108.94
2	148.34	-65.44	-13.00	-52.44	1.50 H	5	42.97	-108.41
3	254.07	-60.15	-13.00	-47.15	1.25 H	2	49.20	-109.35
4	371.44	-52.45	-13.00	-39.45	1.25 H	248	53.45	-105.90
5	631.40	-60.16	-13.00	-47.16	1.00 H	153	40.06	-100.22
6	932.10	-53.69	-13.00	-40.69	1.50 H	2	42.30	-95.99

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

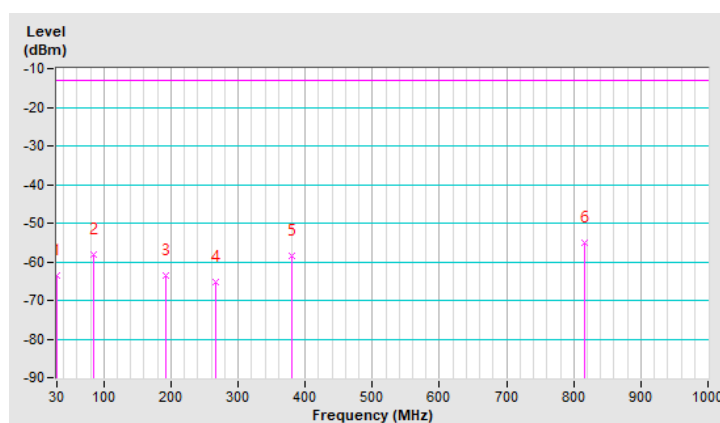


Channel	Ch 6 + Ch18900	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-63.52	-13.00	-50.52	1.00 V	167	46.15	-109.67
2	85.29	-58.01	-13.00	-45.01	1.50 V	70	56.09	-114.10
3	191.99	-63.44	-13.00	-50.44	1.50 V	315	47.85	-111.29
4	265.71	-65.27	-13.00	-52.27	1.25 V	66	43.55	-108.82
5	380.17	-58.35	-13.00	-45.35	1.00 V	17	47.36	-105.71
6	816.67	-54.92	-13.00	-41.92	1.50 V	207	42.85	-97.77

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



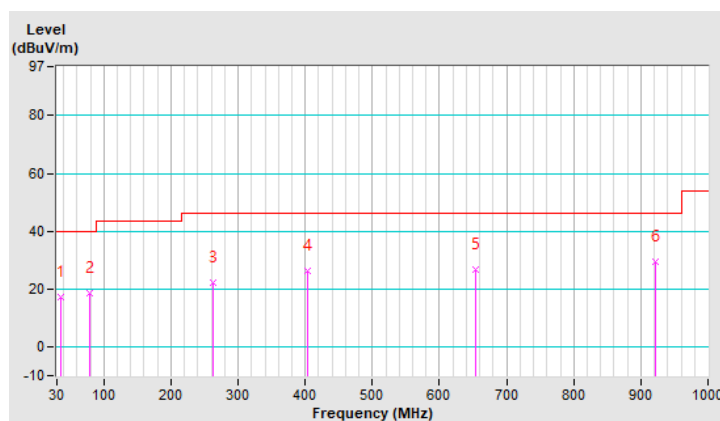
802.11b + LTE B4

Channel	Ch 6+ Ch20175	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	36.79	17.19 QP	40.00	-22.81	1.25 H	206	31.17	-13.98
2	79.47	18.59 QP	40.00	-21.41	1.00 H	148	36.46	-17.87
3	262.80	22.12 QP	46.00	-23.88	1.50 H	340	35.85	-13.73
4	403.45	26.45 QP	46.00	-19.55	1.25 H	269	36.37	-9.92
5	654.68	26.95 QP	46.00	-19.05	1.00 H	121	31.61	-4.66
6	921.43	29.67 QP	46.00	-16.33	1.50 H	155	30.61	-0.94

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.

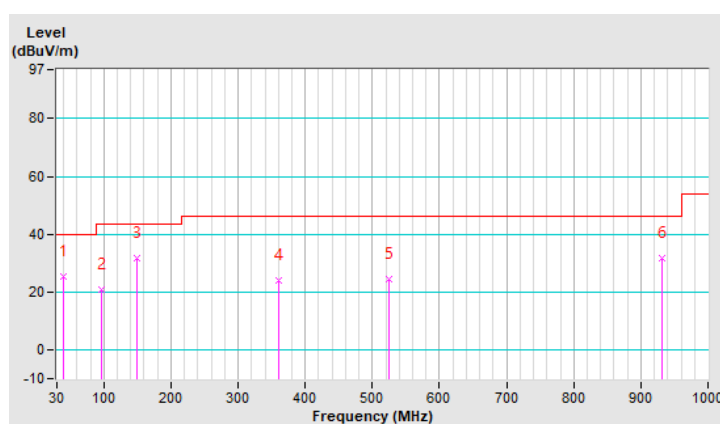


Channel	Ch 6+ Ch20175	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	39.70	25.25 QP	40.00	-14.75	1.25 V	213	38.93	-13.68
2	95.96	20.98 QP	43.50	-22.52	1.00 V	35	39.55	-18.57
3	148.34	31.73 QP	43.50	-11.77	1.25 V	18	44.88	-13.15
4	360.77	24.13 QP	46.00	-21.87	1.50 V	314	35.24	-11.11
5	525.67	24.67 QP	46.00	-21.33	1.50 V	14	31.94	-7.27
6	931.13	31.87 QP	46.00	-14.13	1.00 V	15	32.63	-0.76

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.

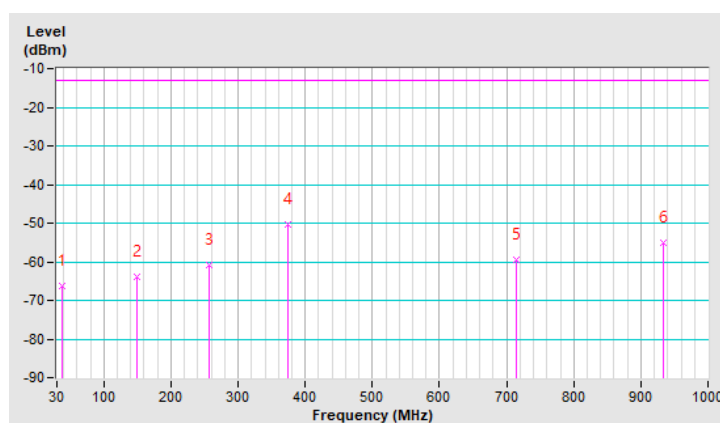


Channel	Ch 6+ Ch20175	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.76	-66.26	-13.00	-53.26	1.25 H	58	42.74	-109.00
2	148.34	-63.78	-13.00	-50.78	1.00 H	351	44.63	-108.41
3	256.98	-60.94	-13.00	-47.94	1.50 H	1	48.31	-109.25
4	373.38	-50.44	-13.00	-37.44	1.25 H	267	55.41	-105.85
5	714.82	-59.58	-13.00	-46.58	1.00 H	55	39.53	-99.11
6	934.04	-55.14	-13.00	-42.14	1.25 H	68	40.80	-95.94

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

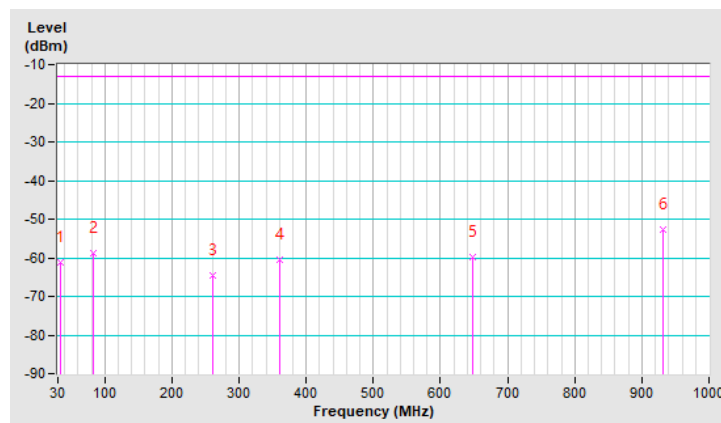


Channel	Ch 6+ Ch20175	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.85	-61.06	-13.00	-48.06	1.25 V	66	48.34	-109.40
2	82.38	-58.80	-13.00	-45.80	1.00 V	61	54.95	-113.75
3	259.89	-64.57	-13.00	-51.57	1.50 V	93	44.57	-109.14
4	360.77	-60.36	-13.00	-47.36	1.25 V	295	46.01	-106.37
5	647.89	-59.69	-13.00	-46.69	1.00 V	18	40.23	-99.92
6	931.13	-52.78	-13.00	-39.78	1.25 V	131	43.24	-96.02

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



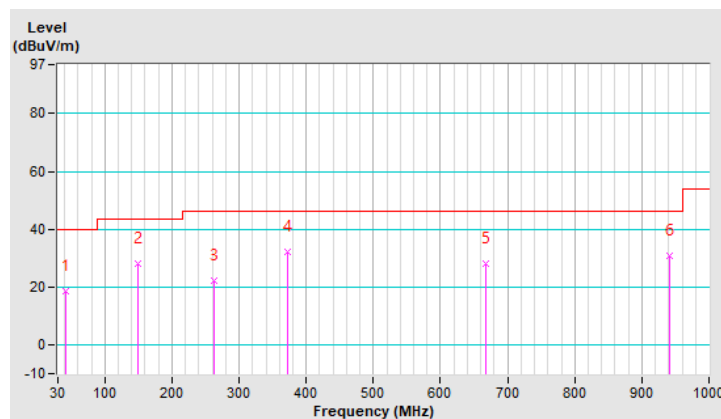
BT EDR + LTE B5

Channel	Ch0 + Ch20525	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	41.64	18.54 QP	40.00	-21.46	1.25 H	210	31.95	-13.41
2	148.34	28.17 QP	43.50	-15.33	1.00 H	353	41.32	-13.15
3	262.80	22.16 QP	46.00	-23.84	1.50 H	2	35.89	-13.73
4	371.44	32.10 QP	46.00	-13.90	1.00 H	180	42.74	-10.64
5	668.26	28.25 QP	46.00	-17.75	1.00 H	344	32.82	-4.57
6	940.83	30.80 QP	46.00	-15.20	1.25 H	225	31.27	-0.47

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.

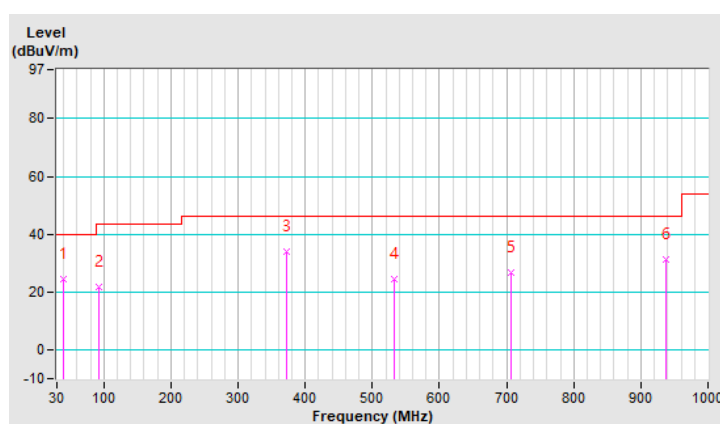


Channel	Ch 0 + Ch20525	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	39.70	24.30 QP	40.00	-15.70	1.50 V	221	37.98	-13.68
2	93.05	21.63 QP	43.50	-21.87	1.25 V	360	40.29	-18.66
3	371.44	34.17 QP	46.00	-11.83	1.00 V	243	44.81	-10.64
4	532.46	24.66 QP	46.00	-21.34	1.25 V	277	31.89	-7.23
5	706.09	26.85 QP	46.00	-19.15	1.50 V	352	30.76	-3.91
6	936.95	31.32 QP	46.00	-14.68	1.00 V	9	31.91	-0.59

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.

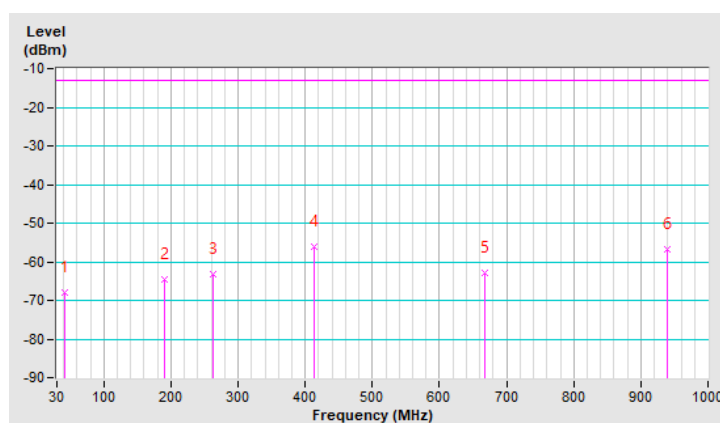


Channel	Ch 0 + Ch20525	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.61	-67.85	-13.00	-54.85	1.00 H	336	42.90	-110.75
2	191.02	-64.61	-13.00	-51.61	1.25 H	172	48.76	-113.37
3	261.83	-63.16	-13.00	-50.16	1.50 H	348	48.03	-111.19
4	414.12	-55.98	-13.00	-42.98	1.50 H	217	51.20	-107.18
5	668.26	-62.72	-13.00	-49.72	1.00 H	353	39.26	-101.98
6	938.89	-56.72	-13.00	-43.72	1.25 H	314	41.21	-97.93

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

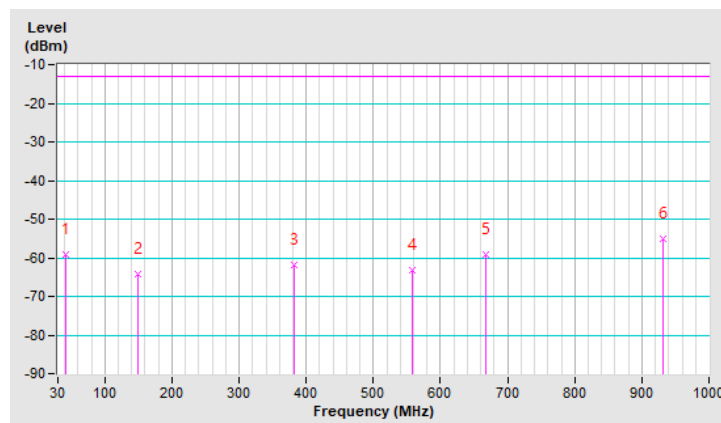


Channel	Ch 0 + Ch20525	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.64	-58.99	-13.00	-45.99	1.25 V	107	51.83	-110.82
2	148.34	-64.15	-13.00	-51.15	1.00 V	118	46.41	-110.56
3	381.14	-61.92	-13.00	-48.92	1.50 V	275	45.91	-107.83
4	557.68	-63.20	-13.00	-50.20	1.25 V	149	40.96	-104.16
5	668.26	-59.10	-13.00	-46.10	1.00 V	90	42.88	-101.98
6	931.13	-55.20	-13.00	-42.20	1.50 V	294	42.97	-98.17

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



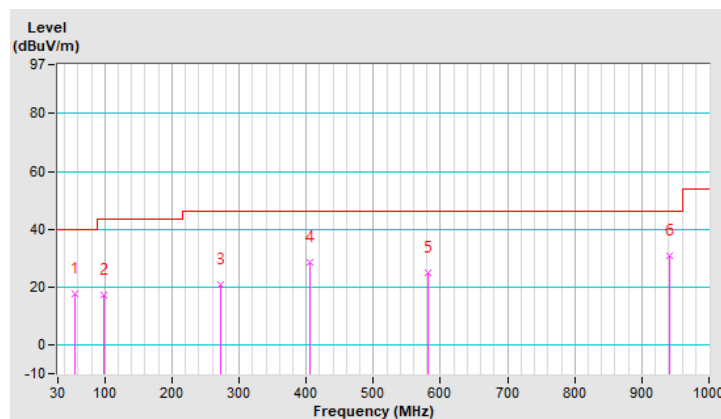
BT EDR + LTE B2

Channel	Ch 0 + Ch18900	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	56.19	17.66 QP	40.00	-22.34	1.25 H	163	30.99	-13.33
2	98.87	17.26 QP	43.50	-26.24	1.00 H	17	35.07	-17.81
3	272.50	20.99 QP	46.00	-25.01	1.25 H	325	34.16	-13.17
4	405.39	28.67 QP	46.00	-17.33	1.50 H	246	38.55	-9.88
5	581.93	24.95 QP	46.00	-21.05	1.00 H	72	30.95	-6.00
6	940.83	30.80 QP	46.00	-15.20	1.25 H	225	31.27	-0.47

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.

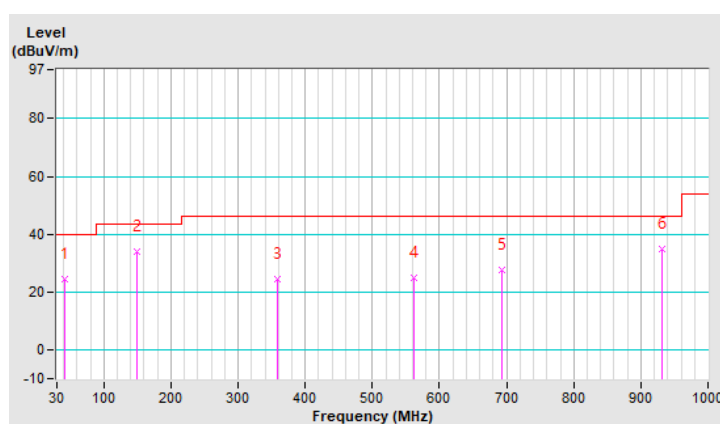


Channel	Ch 0 + Ch18900	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	41.64	24.54 QP	40.00	-15.46	1.25 V	118	37.95	-13.41
2	148.34	33.92 QP	43.50	-9.58	1.50 V	301	47.07	-13.15
3	357.86	24.31 QP	46.00	-21.69	1.00 V	119	35.49	-11.18
4	562.53	25.03 QP	46.00	-20.97	1.00 V	346	31.67	-6.64
5	692.51	27.60 QP	46.00	-18.40	1.25 V	66	31.61	-4.01
6	931.13	34.76 QP	46.00	-11.24	1.50 V	13	35.52	-0.76

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.

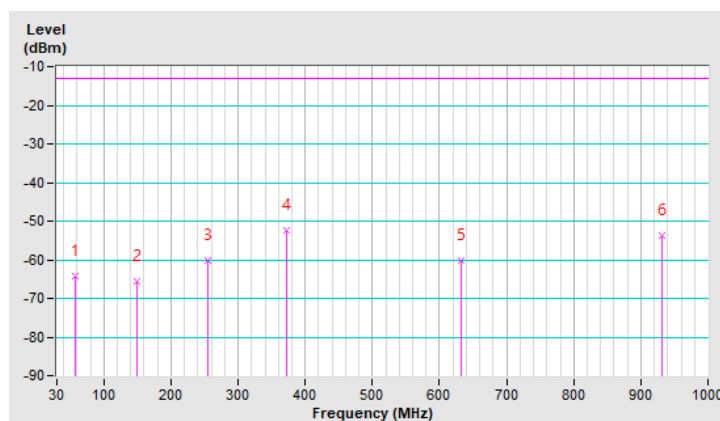


Channel	Ch 0 + Ch18900	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	57.16	-64.10	-13.00	-51.10	1.00 H	2	44.84	-108.94
2	148.34	-65.44	-13.00	-52.44	1.50 H	5	42.97	-108.41
3	254.07	-60.15	-13.00	-47.15	1.25 H	2	49.20	-109.35
4	371.44	-52.45	-13.00	-39.45	1.25 H	248	53.45	-105.90
5	631.40	-60.16	-13.00	-47.16	1.00 H	153	40.06	-100.22
6	932.10	-53.69	-13.00	-40.69	1.50 H	2	42.30	-95.99

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

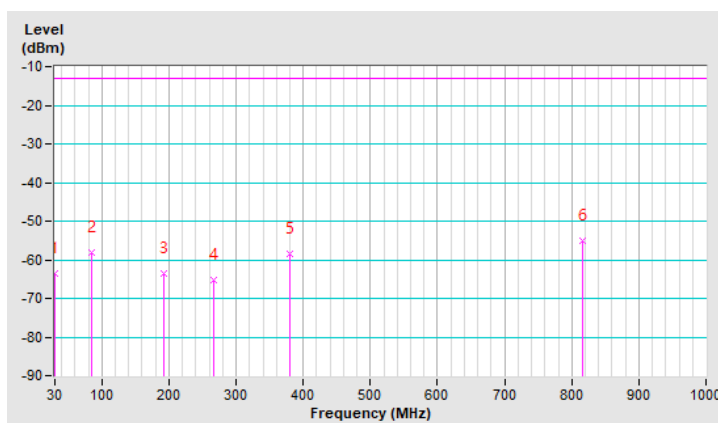


Channel	Ch 0 + Ch18900	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-63.52	-13.00	-50.52	1.00 V	167	46.15	-109.67
2	85.29	-58.01	-13.00	-45.01	1.50 V	70	56.09	-114.10
3	191.99	-63.44	-13.00	-50.44	1.50 V	315	47.85	-111.29
4	265.71	-65.27	-13.00	-52.27	1.25 V	66	43.55	-108.82
5	380.17	-58.35	-13.00	-45.35	1.00 V	17	47.36	-105.71
6	816.67	-54.92	-13.00	-41.92	1.50 V	207	42.85	-97.77

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



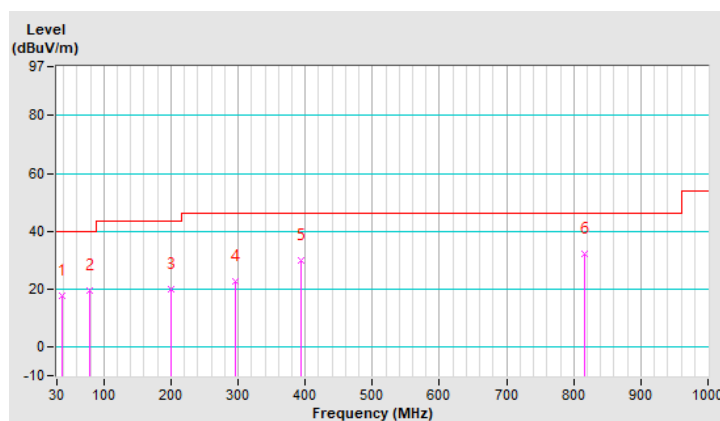
BT EDR + LTE B4

Channel	Ch 0 + Ch20175	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	37.76	17.86 QP	40.00	-22.14	1.25 H	315	31.60	-13.74
2	79.47	19.64 QP	40.00	-20.36	1.00 H	124	37.51	-17.87
3	200.72	20.15 QP	43.50	-23.35	1.50 H	188	36.53	-16.38
4	296.75	22.84 QP	46.00	-23.16	1.25 H	319	35.38	-12.54
5	394.72	29.90 QP	46.00	-16.10	1.00 H	253	40.02	-10.12
6	816.67	32.37 QP	46.00	-13.63	1.25 H	300	34.88	-2.51

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.

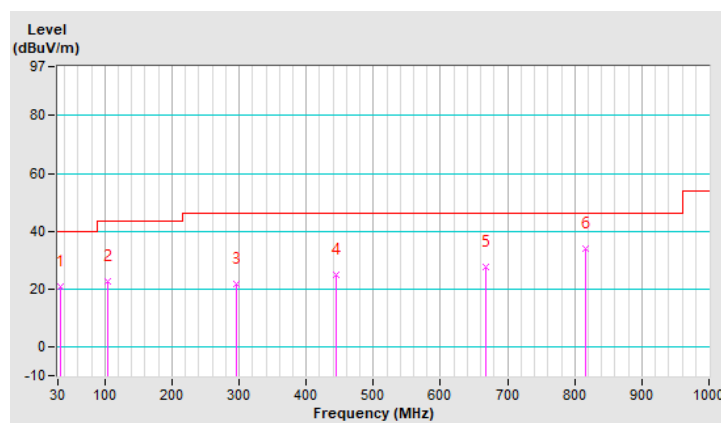


Channel	Ch 0 + Ch20175	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	34.85	20.65 QP	40.00	-19.35	1.25 V	113	34.79	-14.14
2	103.72	22.46 QP	43.50	-21.04	1.00 V	15	39.48	-17.02
3	296.75	21.53 QP	46.00	-24.47	1.50 V	159	34.07	-12.54
4	445.16	24.91 QP	46.00	-21.09	1.50 V	168	33.59	-8.68
5	668.26	27.72 QP	46.00	-18.28	1.00 V	355	32.29	-4.57
6	816.67	34.14 QP	46.00	-11.86	1.25 V	212	36.65	-2.51

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.

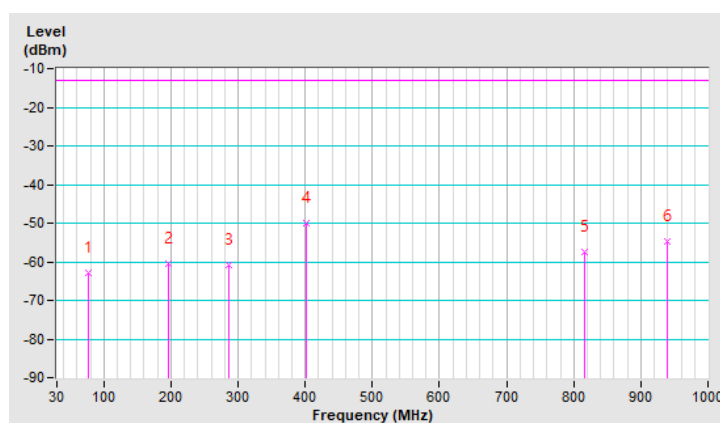


Channel	Ch 0 + Ch20175	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	77.53	-62.94	-13.00	-49.94	1.00 H	133	49.74	-112.68
2	195.87	-60.63	-13.00	-47.63	1.25 H	194	50.94	-111.57
3	287.05	-60.85	-13.00	-47.85	1.50 H	148	47.10	-107.95
4	401.51	-49.85	-13.00	-36.85	1.25 H	265	55.38	-105.23
5	816.67	-57.54	-13.00	-44.54	1.00 H	18	40.23	-97.77
6	938.89	-54.72	-13.00	-41.72	1.50 H	94	41.06	-95.78

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

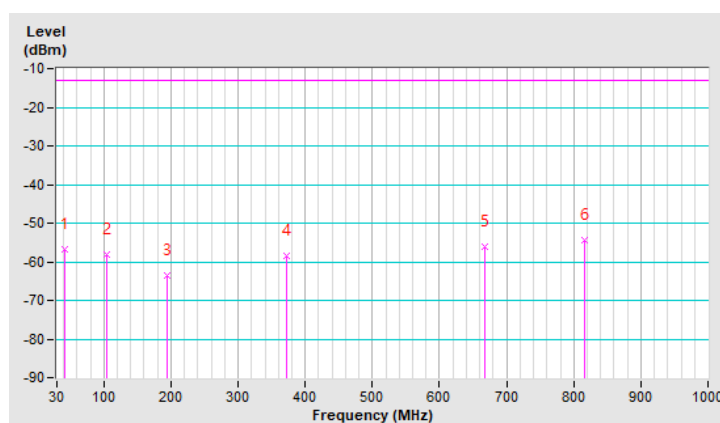


Channel	Ch 0 + Ch20175	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.64	-56.72	-13.00	-43.72	1.25 V	204	51.95	-108.67
2	104.69	-58.17	-13.00	-45.17	1.00 V	19	53.94	-112.11
3	193.93	-63.44	-13.00	-50.44	1.50 V	320	47.98	-111.42
4	371.44	-58.49	-13.00	-45.49	1.25 V	276	47.41	-105.90
5	668.26	-56.19	-13.00	-43.19	1.00 V	251	43.64	-99.83
6	816.67	-54.57	-13.00	-41.57	1.25 V	210	43.20	-97.77

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



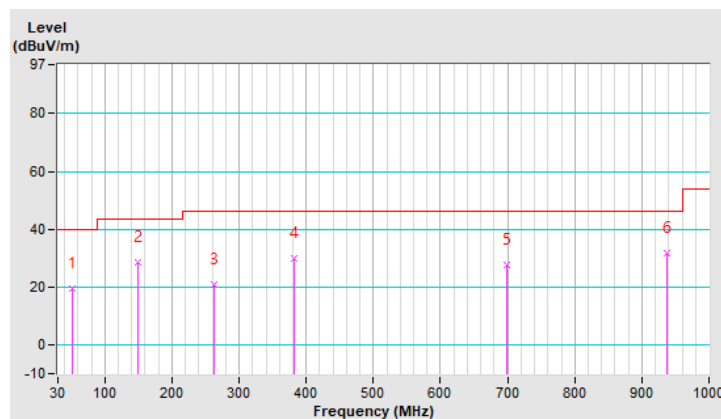
BT EDR + 802.11a + LTE B5

Channel	Ch0 + Ch 116 + Ch20525	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	51.34	19.38 QP	40.00	-20.62	1.25 H	230	32.50	-13.12
2	148.34	28.71 QP	43.50	-14.79	1.00 H	357	41.86	-13.15
3	262.80	21.02 QP	46.00	-24.98	1.50 H	2	34.75	-13.73
4	382.11	29.81 QP	46.00	-16.19	1.00 H	252	40.20	-10.39
5	698.33	27.50 QP	46.00	-18.50	1.25 H	24	31.39	-3.89
6	937.92	31.86 QP	46.00	-14.14	1.25 H	320	32.41	-0.55

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.

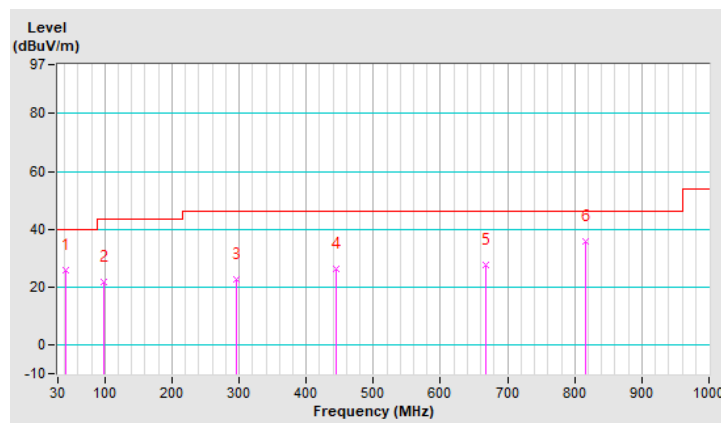


Channel	Ch 0 + Ch 116 + Ch20525	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	41.64	25.61 QP	40.00	-14.39	1.50 V	141	39.02	-13.41
2	98.87	21.82 QP	43.50	-21.68	1.25 V	353	39.63	-17.81
3	296.75	22.62 QP	46.00	-23.38	1.25 V	298	35.16	-12.54
4	445.16	26.19 QP	46.00	-19.81	1.00 V	167	34.87	-8.68
5	668.26	27.49 QP	46.00	-18.51	1.00 V	131	32.06	-4.57
6	816.67	35.94 QP	46.00	-10.06	1.50 V	210	38.45	-2.51

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.

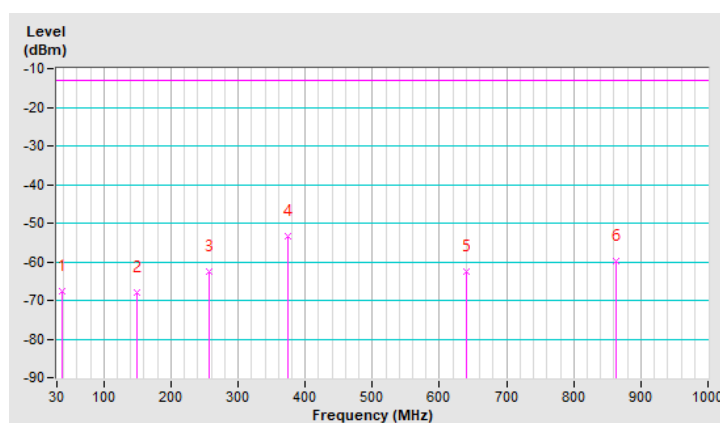


Channel	Ch 0 + Ch 116 + Ch20525	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	38.73	-67.50	-13.00	-54.50	1.25 H	104	43.68	-111.18
2	148.34	-68.00	-13.00	-55.00	1.00 H	248	42.56	-110.56
3	256.98	-62.52	-13.00	-49.52	1.25 H	353	48.88	-111.40
4	374.35	-53.53	-13.00	-40.53	1.00 H	230	54.44	-107.97
5	640.13	-62.48	-13.00	-49.48	1.50 H	262	39.70	-102.18
6	862.26	-59.69	-13.00	-46.69	1.00 H	18	39.75	-99.44

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

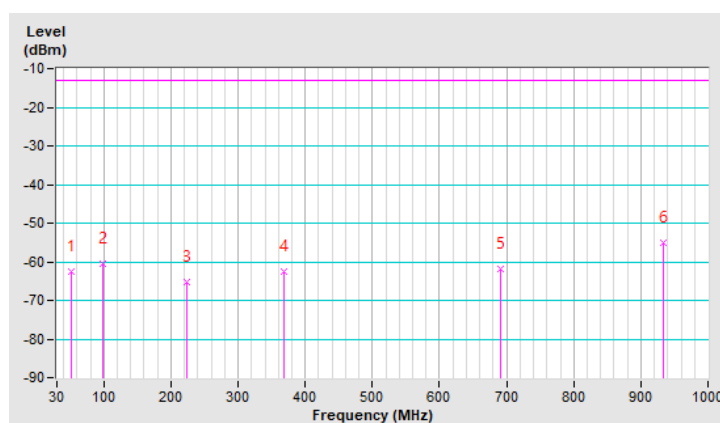


Channel	Ch 0 + Ch 116 + Ch20525	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	52.31	-62.47	-13.00	-49.47	1.50 V	114	48.13	-110.60
2	98.87	-60.40	-13.00	-47.40	1.00 V	240	54.82	-115.22
3	223.03	-65.27	-13.00	-52.27	1.25 V	129	48.51	-113.78
4	367.56	-62.57	-13.00	-49.57	1.00 V	125	45.63	-108.20
5	691.54	-61.75	-13.00	-48.75	1.25 V	258	39.72	-101.47
6	934.04	-55.24	-13.00	-42.24	1.00 V	244	42.85	-98.09

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



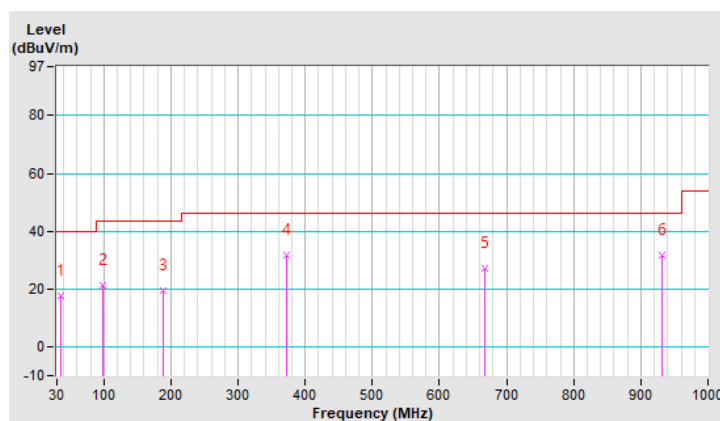
BT EDR + 802.11a +LTE B2

Channel	Ch 0 + Ch 116 + Ch18900	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	36.79	17.50 QP	40.00	-22.50	1.25 H	46	31.48	-13.98
2	98.87	21.24 QP	43.50	-22.26	1.00 H	300	39.05	-17.81
3	188.11	19.31 QP	43.50	-24.19	1.50 H	130	35.00	-15.69
4	371.44	31.62 QP	46.00	-14.38	1.00 H	278	42.26	-10.64
5	668.26	27.15 QP	46.00	-18.85	1.00 H	143	31.72	-4.57
6	932.10	31.91 QP	46.00	-14.09	1.25 H	241	32.64	-0.73

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.

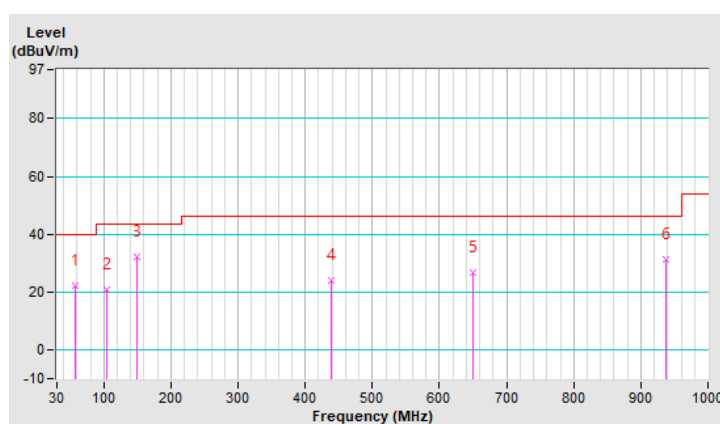


Channel	Ch 0 + Ch 116 + Ch18900	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	58.13	22.36 QP	40.00	-17.64	1.25 V	246	36.06	-13.70
2	103.72	20.82 QP	43.50	-22.68	1.00 V	125	37.84	-17.02
3	148.34	32.23 QP	43.50	-11.27	1.50 V	353	45.38	-13.15
4	438.37	24.04 QP	46.00	-21.96	1.25 V	126	32.84	-8.80
5	649.83	26.66 QP	46.00	-19.34	1.00 V	246	31.36	-4.70
6	937.92	31.36 QP	46.00	-14.64	1.50 V	314	31.91	-0.55

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.

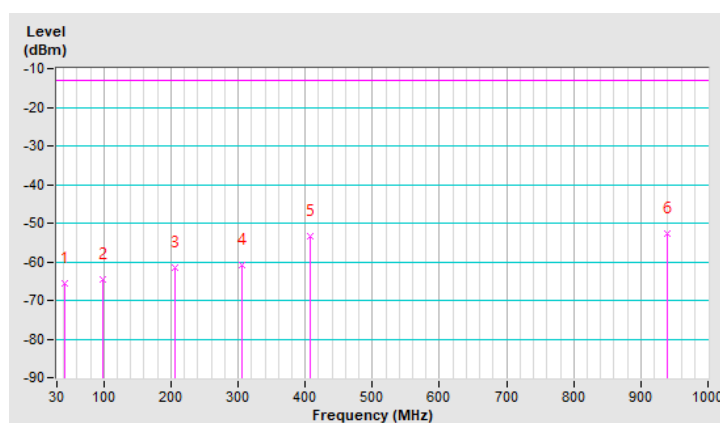


Channel	Ch 0 + Ch 116 + Ch18900	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.61	-65.67	-13.00	-52.67	1.25 H	185	42.93	-108.60
2	98.87	-64.44	-13.00	-51.44	1.25 H	195	48.63	-113.07
3	205.57	-61.49	-13.00	-48.49	1.00 H	190	50.16	-111.65
4	306.45	-60.97	-13.00	-47.97	1.50 H	351	46.57	-107.54
5	407.33	-53.41	-13.00	-40.41	1.00 H	67	51.71	-105.12
6	938.89	-52.56	-13.00	-39.56	1.50 H	74	43.22	-95.78

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

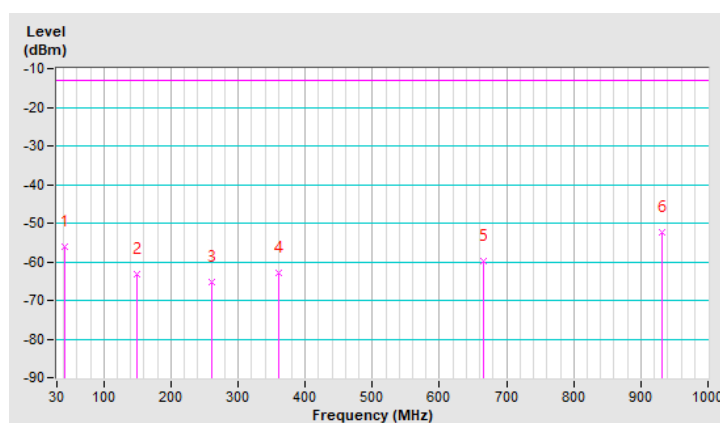


Channel	Ch 0 + Ch 116 + Ch18900	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.64	-56.22	-13.00	-43.22	1.25 V	181	52.45	-108.67
2	148.34	-63.18	-13.00	-50.18	1.00 V	347	45.23	-108.41
3	259.89	-65.13	-13.00	-52.13	1.50 V	17	44.01	-109.14
4	360.77	-62.91	-13.00	-49.91	1.00 V	326	43.46	-106.37
5	665.35	-59.92	-13.00	-46.92	1.25 V	78	39.87	-99.79
6	931.13	-52.49	-13.00	-39.49	1.00 V	57	43.53	-96.02

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



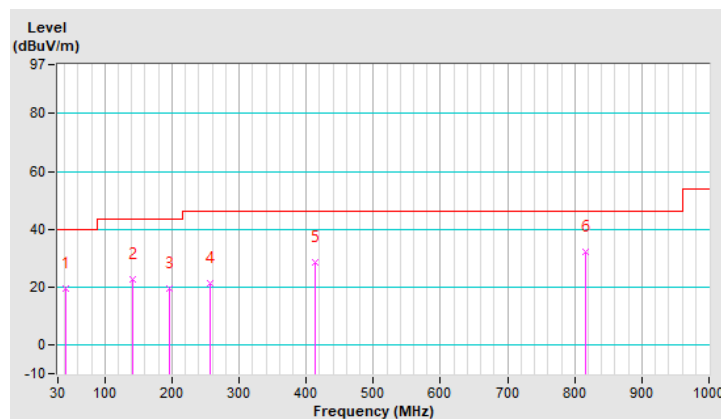
BT EDR + 802.11a + LTE B4

Channel	Ch 0 + 116+ Ch20175	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	42.61	19.61 QP	40.00	-20.39	1.50 H	320	32.95	-13.34
2	140.58	22.54 QP	43.50	-20.96	1.25 H	19	36.05	-13.51
3	196.84	19.30 QP	43.50	-24.20	1.00 H	54	35.62	-16.32
4	256.98	21.21 QP	46.00	-24.79	1.25 H	2	35.20	-13.99
5	413.15	28.37 QP	46.00	-17.63	1.50 H	231	38.14	-9.77
6	816.67	32.21 QP	46.00	-13.79	1.00 H	230	34.72	-2.51

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.

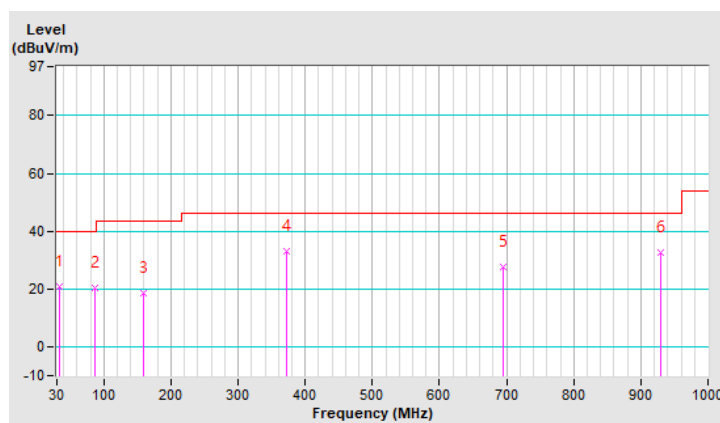


Channel	Ch 0 + 116+ Ch20175	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		

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	33.88	21.00 QP	40.00	-19.00	1.00 V	211	35.33	-14.33
2	86.26	20.25 QP	40.00	-19.75	1.50 V	309	39.21	-18.96
3	159.01	18.75 QP	43.50	-24.75	1.25 V	350	31.78	-13.03
4	371.44	33.25 QP	46.00	-12.75	1.00 V	220	43.89	-10.64
5	695.42	27.49 QP	46.00	-18.51	1.00 V	321	31.40	-3.91
6	930.16	32.79 QP	46.00	-13.21	1.50 V	66	33.58	-0.79

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.

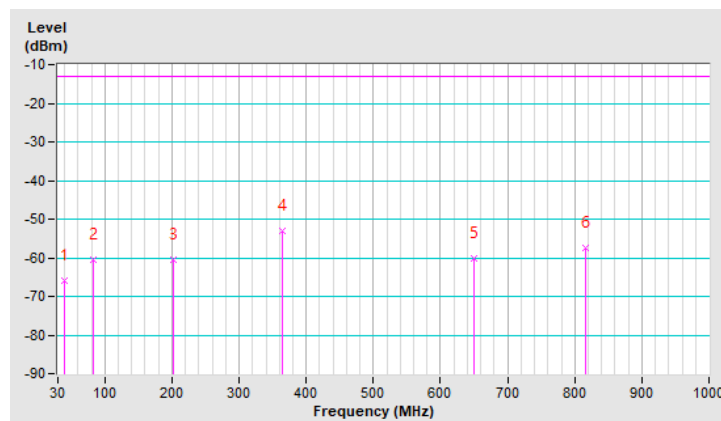


Channel	Ch 0 + 116+ Ch20175	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.67	-66.07	-13.00	-53.07	1.25 H	114	42.71	-108.78
2	82.38	-60.57	-13.00	-47.57	1.00 H	148	53.18	-113.75
3	202.66	-60.38	-13.00	-47.38	1.50 H	180	51.27	-111.65
4	364.65	-53.11	-13.00	-40.11	1.25 H	249	53.09	-106.20
5	649.83	-60.33	-13.00	-47.33	1.00 H	244	39.63	-99.96
6	816.67	-57.54	-13.00	-44.54	1.50 H	18	40.23	-97.77

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

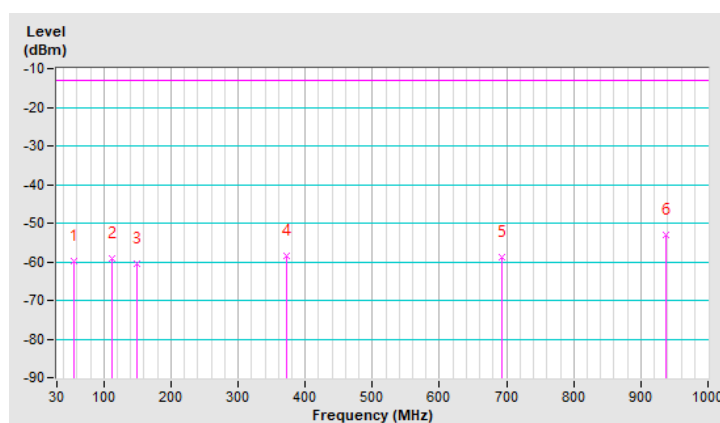


Channel	Ch 0 + 116+ Ch20175	Frequency Range	30MHz ~ 1GHz
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Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.22	-59.67	-13.00	-46.67	1.25 V	231	48.98	-108.65
2	111.48	-59.05	-13.00	-46.05	1.00 V	94	52.39	-111.44
3	148.34	-60.54	-13.00	-47.54	1.50 V	336	47.87	-108.41
4	371.44	-58.49	-13.00	-45.49	1.25 V	276	47.41	-105.90
5	692.51	-58.91	-13.00	-45.91	1.00 V	209	40.36	-99.27
6	936.95	-53.09	-13.00	-40.09	1.50 V	4	42.76	-95.85

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



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.

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

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