FCC Radio Test Report

FCC ID: M82-DLM8110WL

This report concerns (check one): ☒**Original Grant** ☐**Class I Change** ☐**Class II Change**

Project No.	:	1603230
Equipment	:	Computer
Test Model	:	DLT-M8110
Series Model	:	DLT-M8110XXXXXXXXXXXXX, DLM8110XXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)
Applicant	:	Advantech Co., Ltd.
Address	:	No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.

Date of Receipt	:	Mar. 29, 2016
Date of Test	:	Mar. 29, 2016 ~ Jun. 30, 2016
Issued Date	:	Jul. 04, 2016
Tested by	:	BTL Inc.

Testing Engineer : Rush Kao
(Rush Kao)

Technical Manager : Jeff Yang
(Jeff Yang)

Authorized Signatory : Andy Chiu
(Andy Chiu)

BTL INC.

B1, No.37, Lane 365, Yang Guang St.,
Nei-Hu District, Taipei City 114, Taiwan.
TEL:+886-2-2657-3299 FAX: +886-2- 2657-3331

Declaration

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1603230	Original Issue.	Jul. 04, 2016

1. CERTIFICATION

Equipment	:	Computer
Brand Name	:	ADVANTECH
Test Model	:	DLT-M8110
Series Model	:	DLT-M8110XXXXXXXXXXXXXX, DLM8110XXXXXXXXXXXXXX (where “X” may be any alphanumeric character, “-” or blank)
Applicant	:	Advantech Co., Ltd.
Manufacturer	:	Advantech Co., Ltd.
Address	:	No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Date of Test	:	Mar. 29, 2016 ~ Jun. 30, 2016
Test Sample	:	Production Unit
Standard(s)	:	FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1603230) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth LE part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088-2)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088-2)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

2.2 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.
The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.
The reported uncertainty of measurement y ± U, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U, (dB)
C05	CISPR	150 kHz~30MHz	2.04

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U, (dB)
CB11 (3m)	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	30 MHz ~ 200 MHz	V	3.06
		30 MHz ~ 200 MHz	H	2.58
		200 MHz ~ 1, 000 MHz	V	3.50
		200 MHz ~ 1, 000 MHz	H	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (3m)	CISPR	1GHz ~ 6GHz	V	4.14
		1GHz ~ 6GHz	H	4.14

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
CB11 (1m)	CISPR	6GHz ~ 18GHz	V	5.34
		6GHz ~ 18GHz	H	5.34

Test Site	Method	Measurement Frequency Range	U, (dB)
CB08 (1m)	CISPR	18 ~ 26.5 GHz	4.66
		26.5 ~ 40 GHz	4.74

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.
Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR}, as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB
Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR}.

Note: unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Computer		
Brand Name	ADVANTECH		
Test Model	DLT-M8110		
Series Model	DLT-M8110XXXXXXXXXXXXX, DLM8110XXXXXXXXXXXXX (where “X” may be any alphanumeric character, “-” or blank)		
Model Difference	Different model distribute to different area.		
EUT Power Rating	#1 I/P: DC 12.0V #2 I/P: DC 7.4V		
Power Adapter Manufacturer	FSP	Model	FSP060-DIBAN2
Power Adapter Power Rating	I/P: AC 100-240V 1.5A 50-60Hz O/P: DC 12.0V 5.0A		
Product Description	Operation Frequency		2402~2480 MHz
	Modulation Technology		GFSK(1Mbps)
	Bit Rate of Transmitter		
	Output Power (Max.)		5.88 dBm
CPU Manufacturer	Intel	Model	ATOM E3827 1.75GHz
Main Board Manufacturer	ADVANTECH	Model	PCM-8408
WiFi module Manufacturer	SUMMIT	Model	SDC-PE15N
mSATA Manufacturer	ADVANTECH	Spec.	MLC-32G
Memory Manufacturer	DDR3L 1600Mhz(4GB)		
LCD Display Manufacturer	AUO	Model	G104XVN01.0
DC Dock Manufacturer	ADVANTECH	Model	DLT-M8110 Vehicle Docking
AC Dock Manufacturer	ADVANTECH	Model	DLT-M8110 Desk Docking
Battery Manufacturer	ADVANTECH	Model	DLT-M8110L (7.4V±0.8V 3800 mAh)
	ADVANTECH	Model	DLT-M8110S (7.4V±0.8V 1750 mAh)

Note:

1. For a more detailed features description, please refer to the manufacturer’s specifications or the user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ADVANTECH	DLT-M8110(Modify)	PIFA	IPEX	4.77

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX Mode **NOTE (1)**
Mode 2	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 2	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX Mode **NOTE (1)**

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) The EUT includes two optional dockings: DLT-M8110 Desk Docking and DLT-M8110 Vehicle Docking.
Stand-alone mode is the worst mode for all test items.
With DLT-M8110 Desk Docking or DLT-M8110 Vehicle Docking mode only worst cases of spurious emissions are recorded.

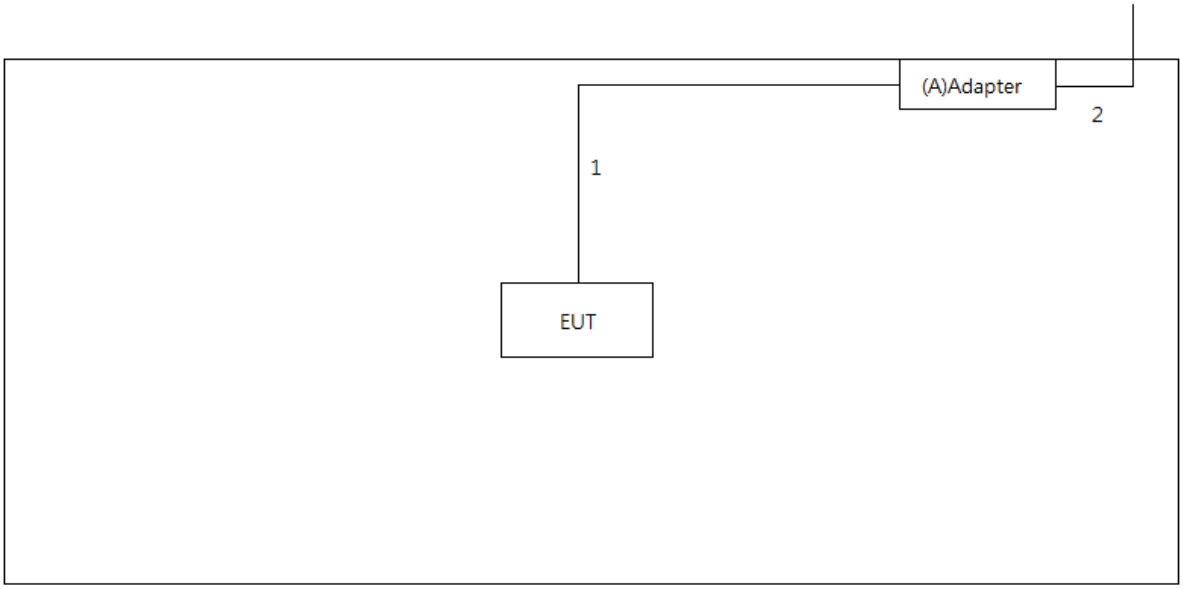
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

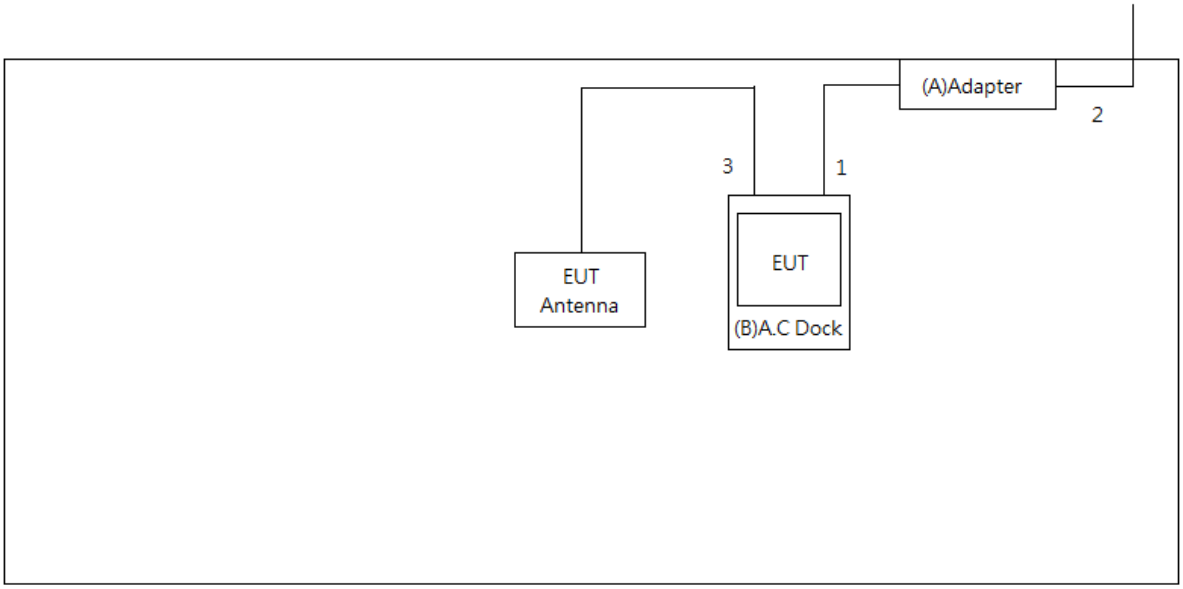
Test Software Version	PuTTY		
Frequency (MHz)	2402	2440	2480
BT LE	DEF	DEF	DEF

3.2 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

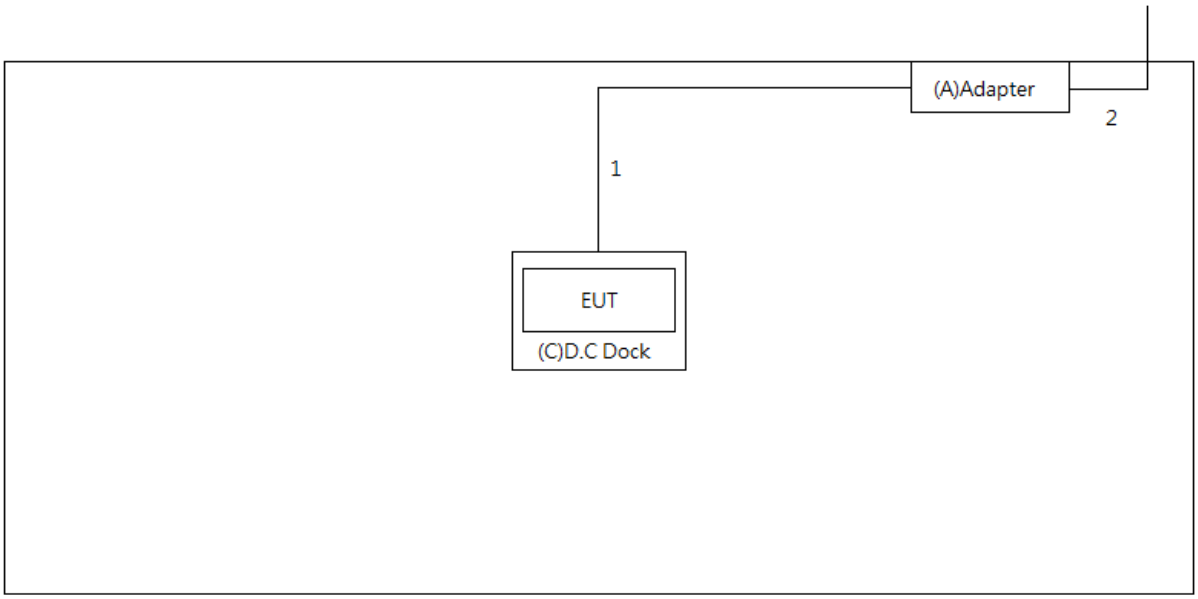
Stand-alone



With DLT-M8110 Desk Docking



With DLT-M8110 Vehicle Docking



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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Adapter	FSP	FSP060-DIBAN2	N/A	H5341000278
B	A.C Dock	ADVANTECH	DLT-M8110 Vehicle Docking	DOC	N/A
C	D.C Dock	ADVANTECH	DLT-M8110 Desk Docking	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	YES	1.5m	Power Cable
2	NO	NO	1.8m	Power Cord
3	YES	NO	3m	ANT Cable

Note:

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

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

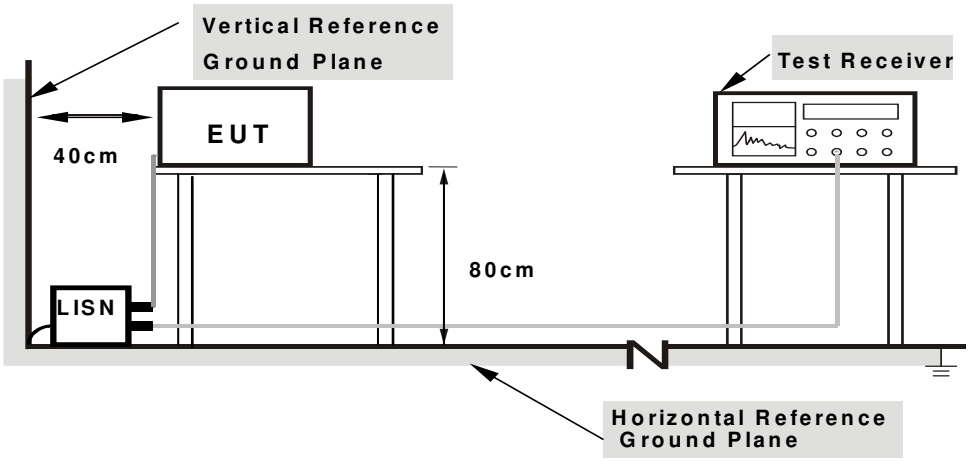
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform.In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
(2) Measuring frequency range from 150KHz to 30MHz.
(3) " N/A" denotes test is not applicable to this device.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

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

(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

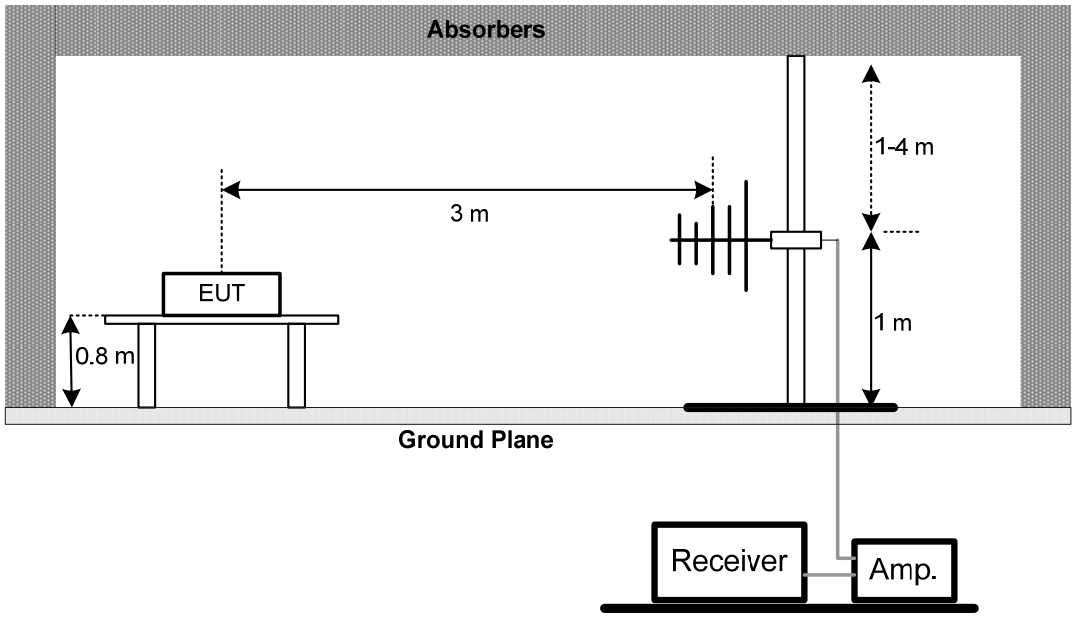
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

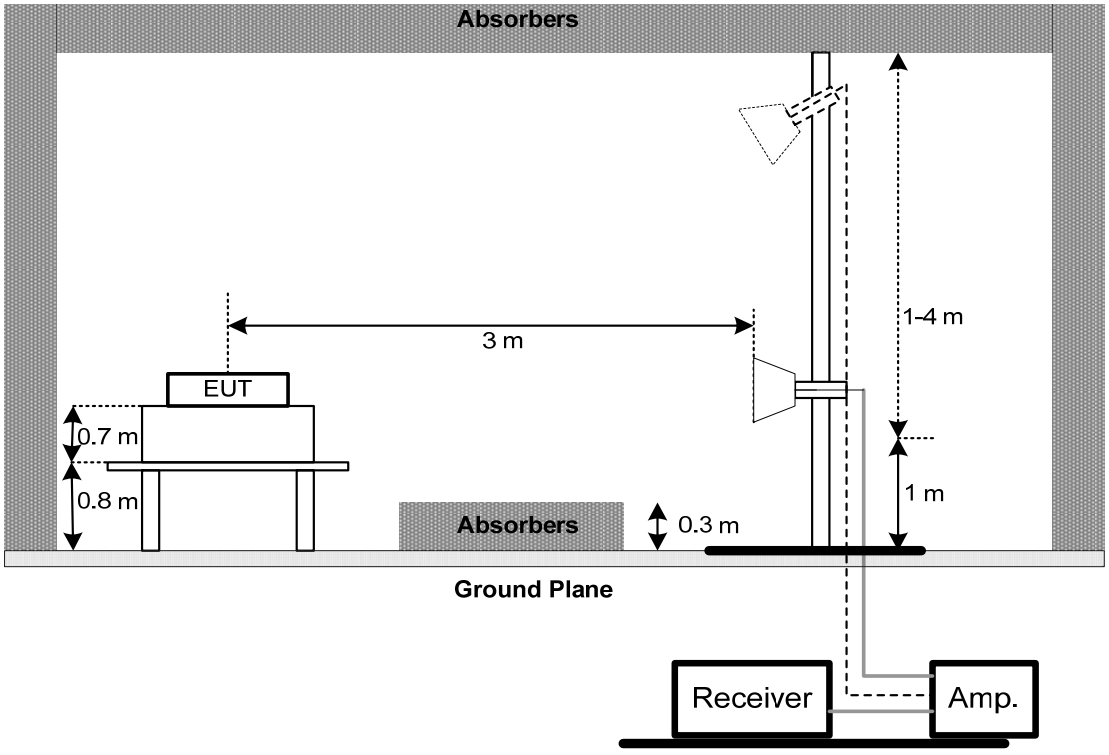
No deviation

4.2.4 TEST SETUP

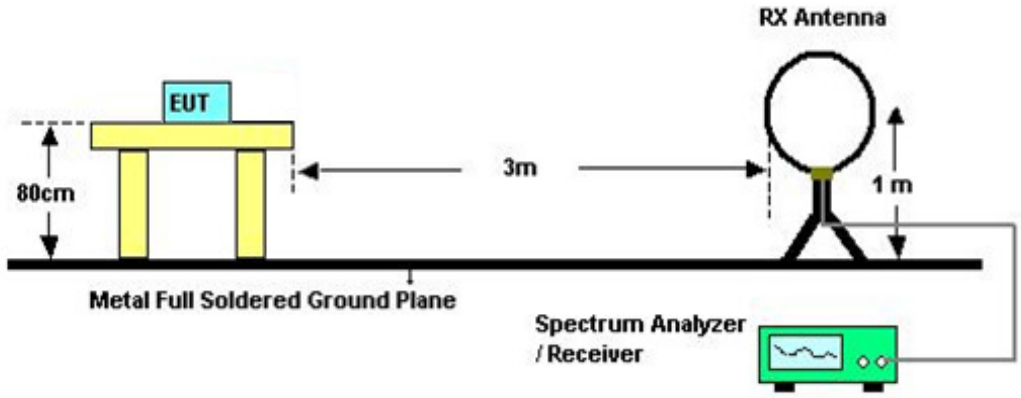
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 45% Test Voltage: AC 120V/60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(3) Measuring frequency range from 30MHz to 1000MHz.
(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
(3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
(4) EUT Orthogonal Axis:
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand
(5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
(6) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

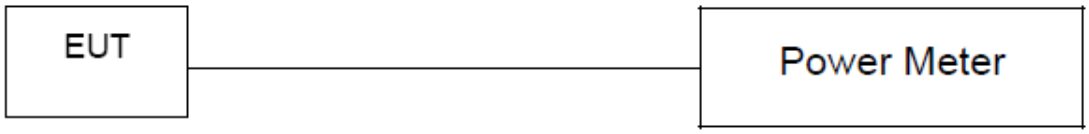
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r04.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

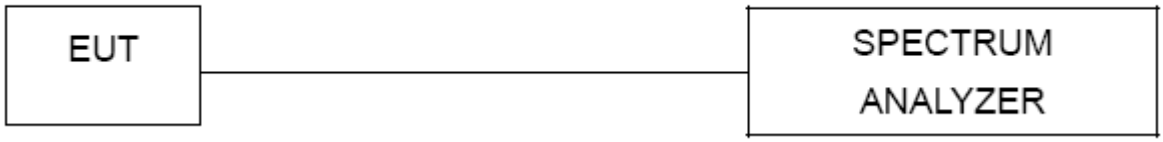
7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
c. Offset=antanna gain + cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

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

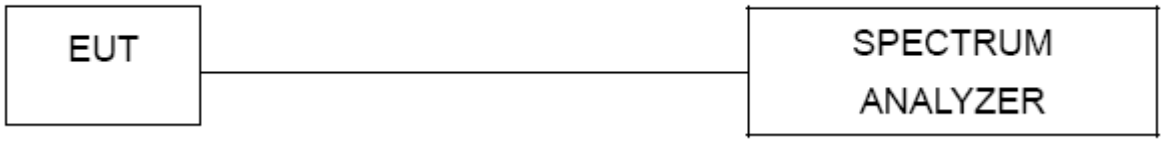
8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 13, 2017
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2016
4	Power Dividers	HP	11636A	8103	May 03, 2017
5	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 30, 2016
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 19, 2017
3	Horn Antenna	Schwarzbeck	BBHA 9120	9120D-1333	May 19, 2017
4	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 15, 2017
5	Pre-Amplifier	Agilent	8449B	3008A01714	Apr. 13, 2017
6	Test Cable	LMR	LMR-400	01(10M)	May 11, 2017
7	Test Cable	LMR	LMR-400	01(3M)	May 11, 2017
8	Test Cable	Harbour industries	27478LL142	1M	May 12, 2017
9	Test Cable	Harbour industries	27478LL142	3M	May 12, 2017
10	Test Cable	AISI	S104-SMAP-1	8M	May 12, 2017
11	Spectrum Analyzer	Agilent	N9020A	MY51160196	Aug. 02, 2016
12	EMI Test Receiver	R&S	ESCI	100080	May 12, 2017
13	Measurement Software	Farad	EZ_EMC (Version NB-03A)	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	May 18, 2017
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 17, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

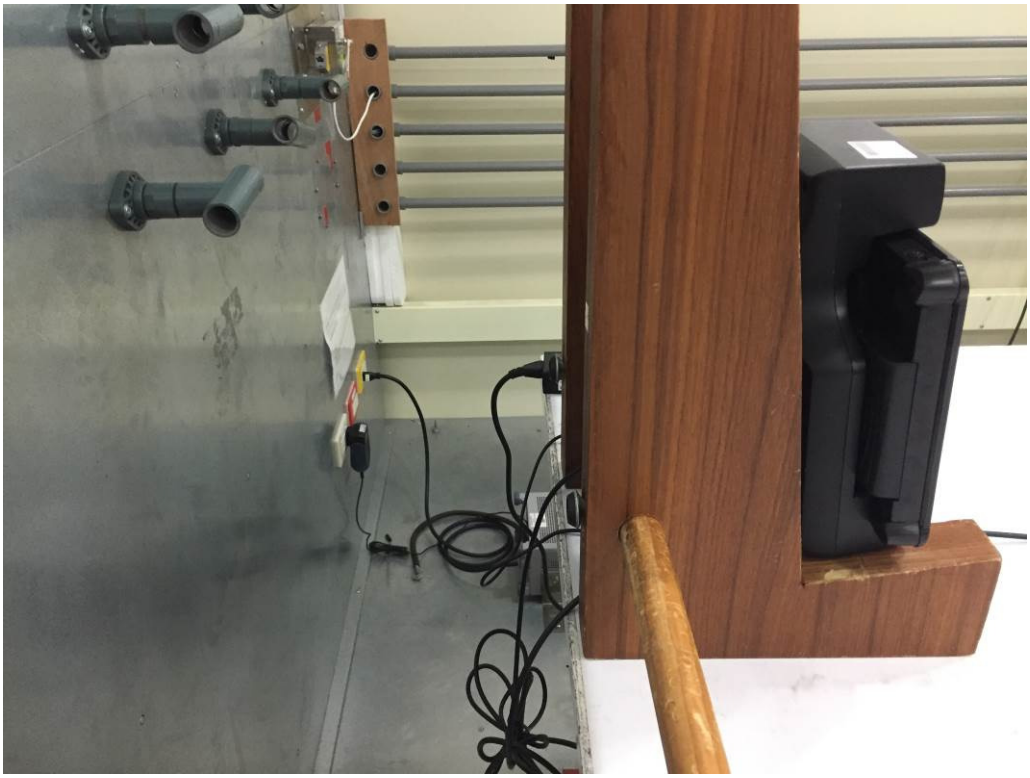
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

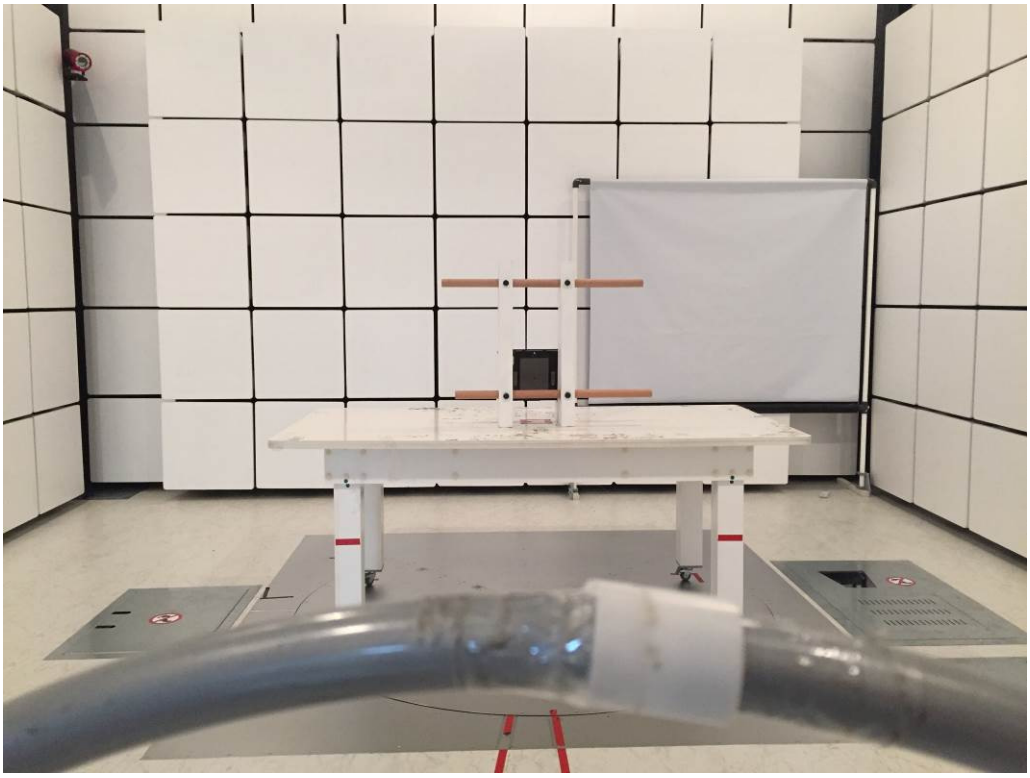
Conducted Measurement Photos
Stand-alone

Conducted Measurement Photos
With DLT-M8110 Desk Docking

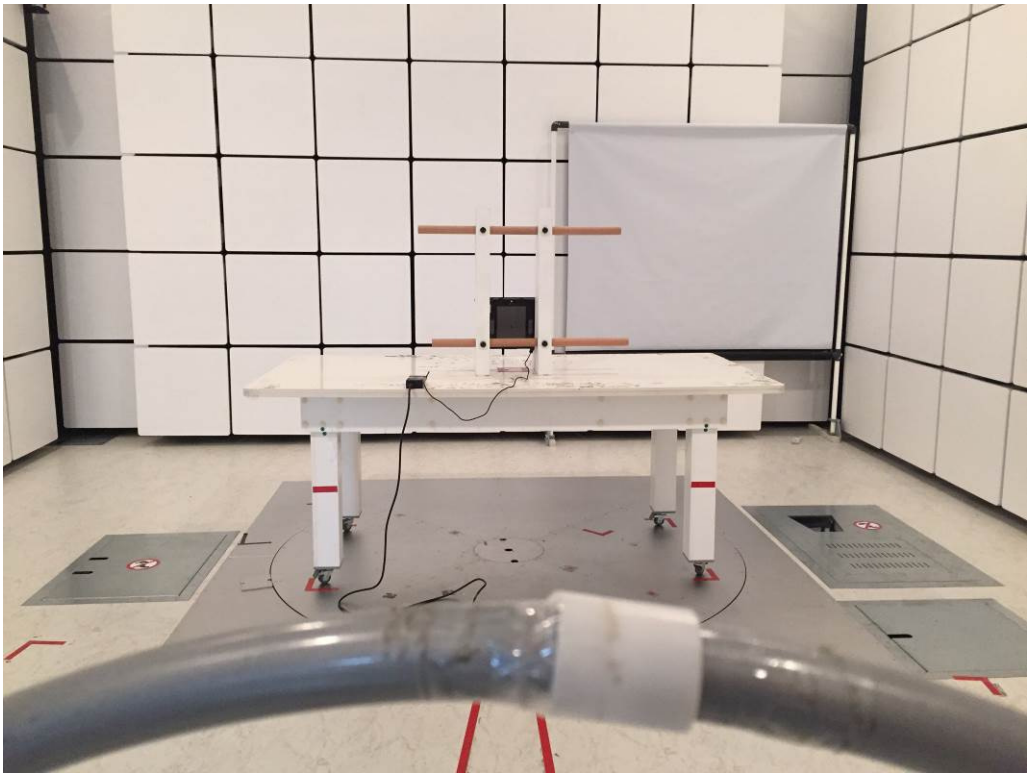


Conducted Measurement Photos
With DLT-M8110 Vehicle Docking

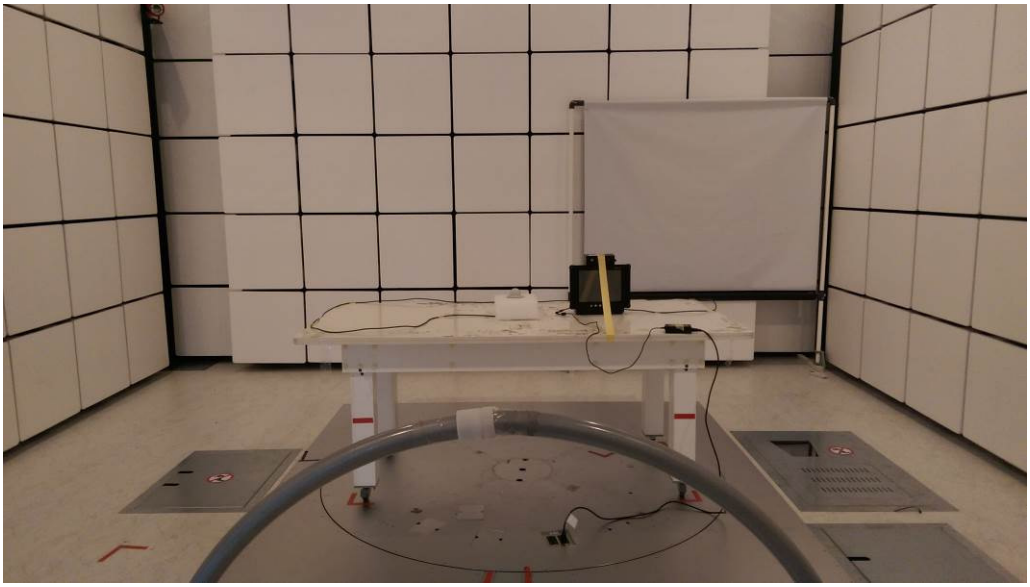
Radiated Measurement Photos
9KHz to 30MHz
Stand-alone (Battery only)

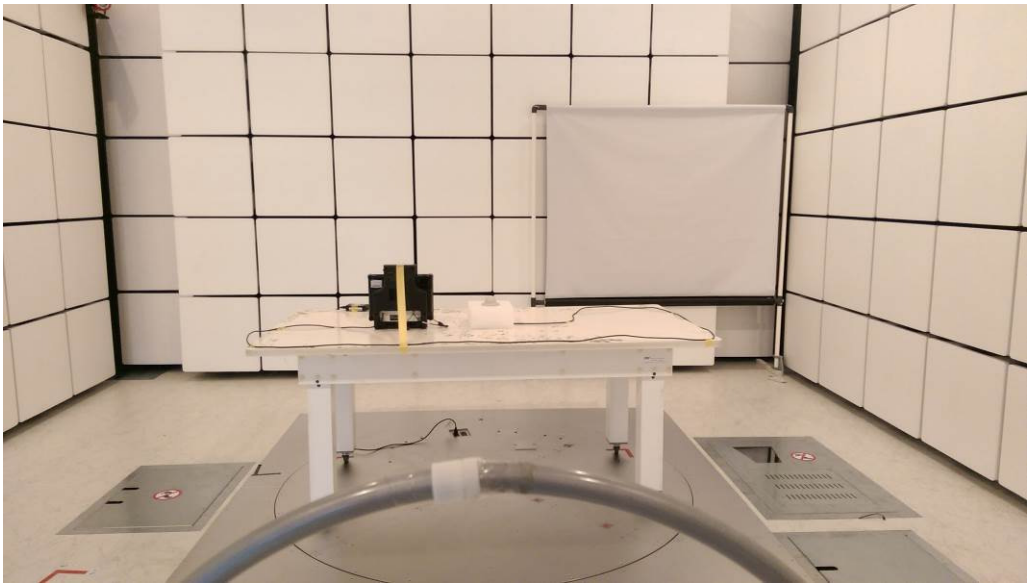


Radiated Measurement Photos
9KHz to 30MHz
Stand-alone (Battery+Adapter)

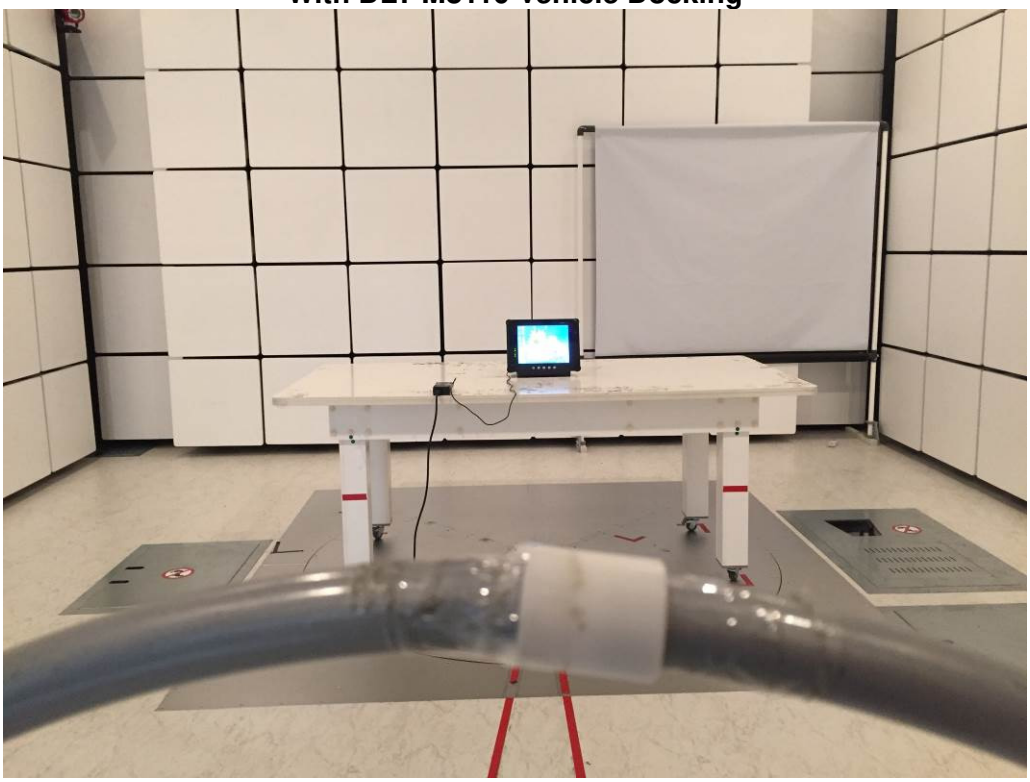


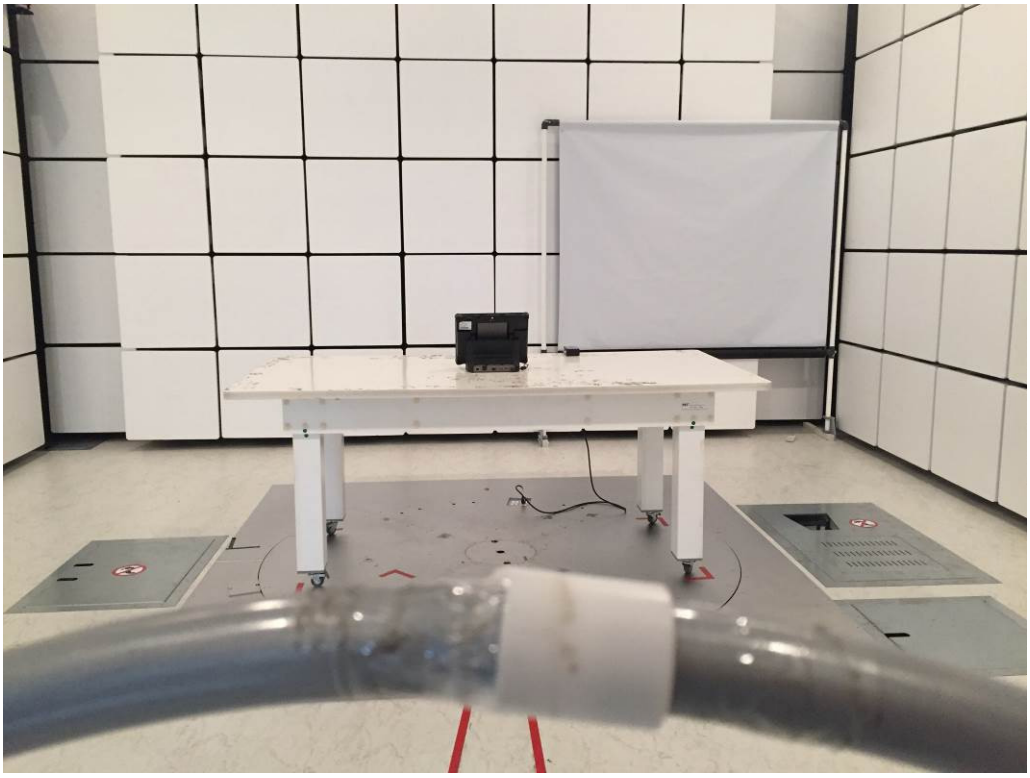
Radiated Measurement Photos
9KHz to 30MHz
With DLT-M8110 Desk Docking



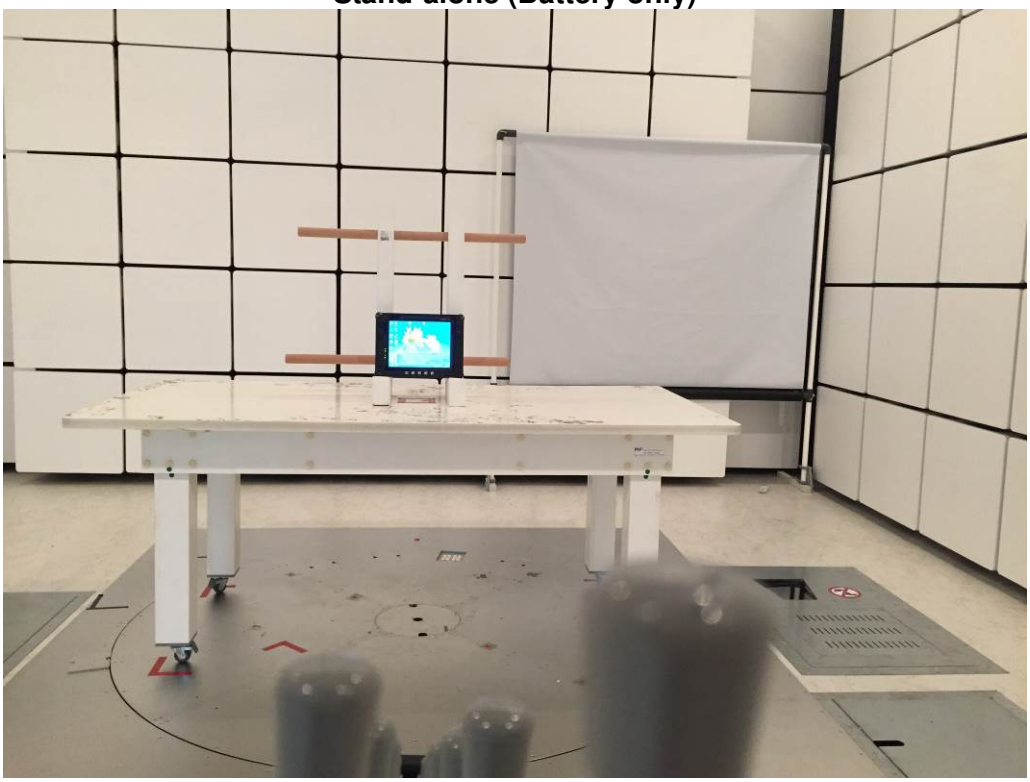


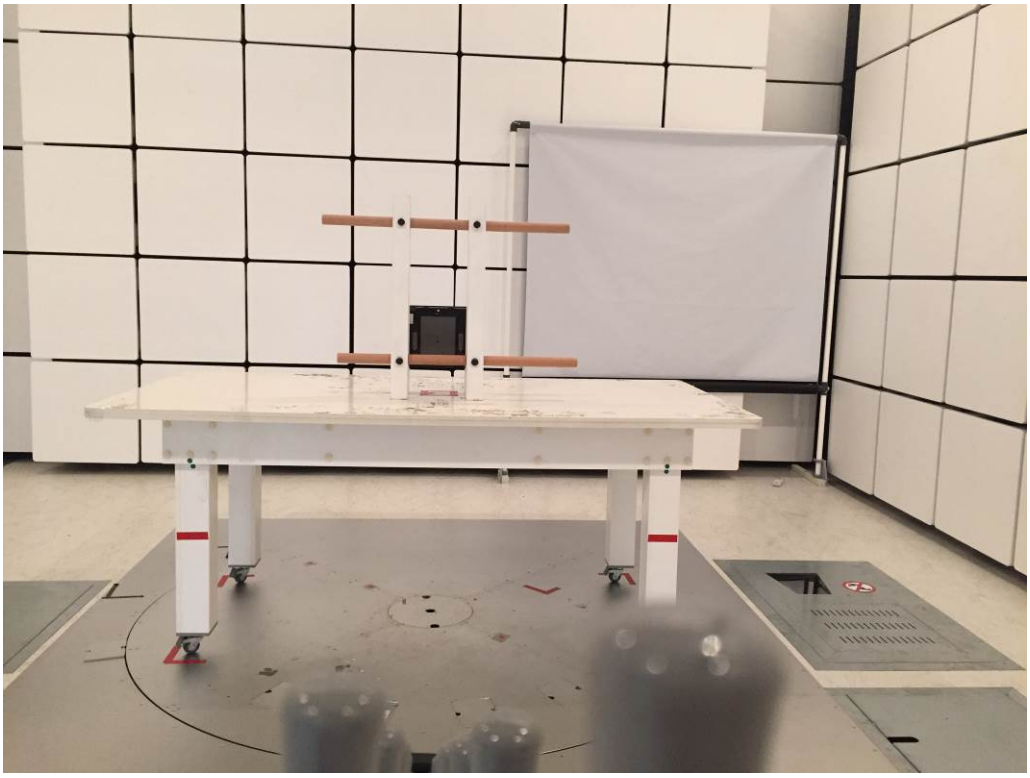
Radiated Measurement Photos
9KHz to 30MHz
With DLT-M8110 Vehicle Docking



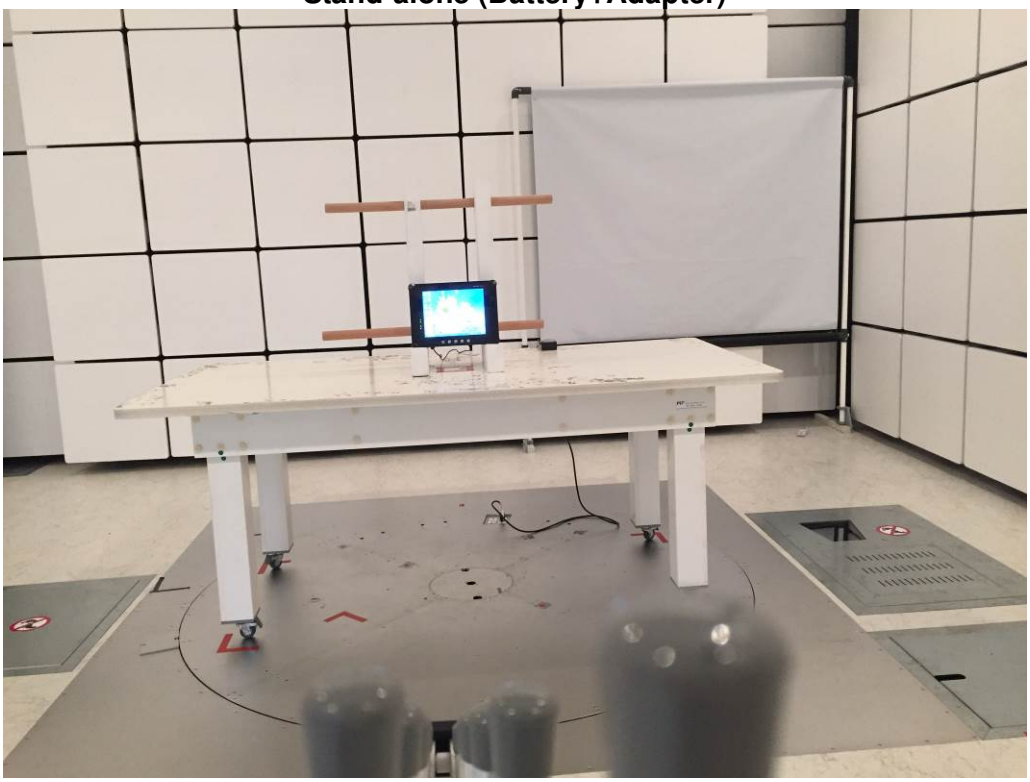


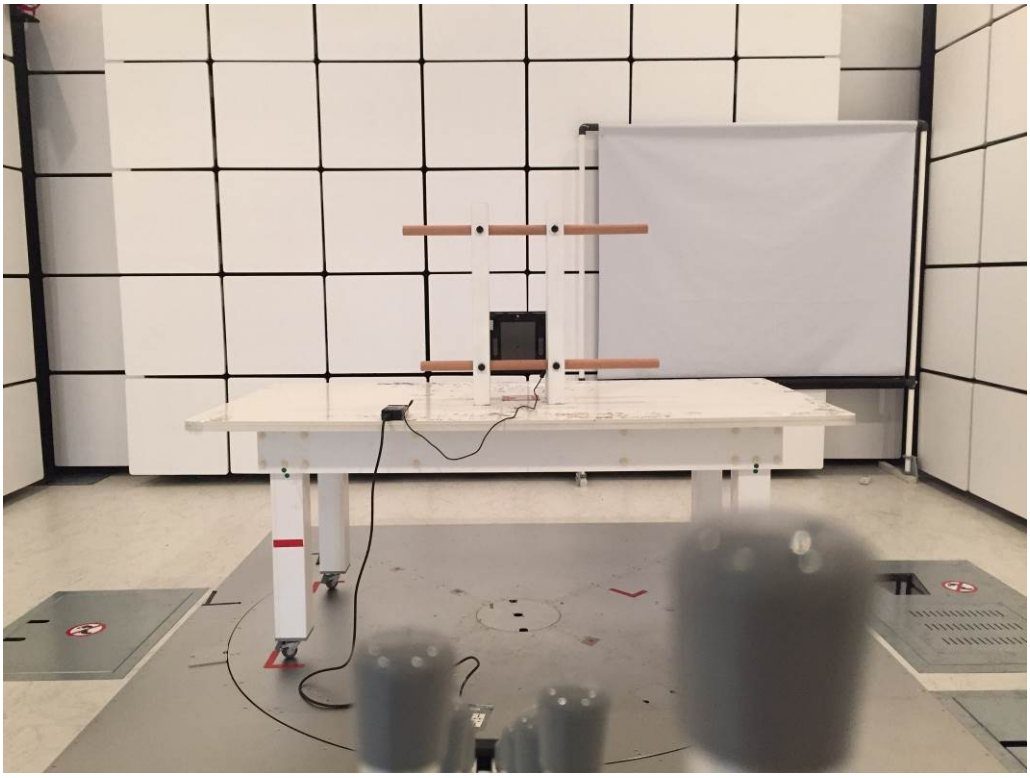
Radiated Measurement Photos
30MHz to 1000MHz
Stand-alone (Battery only)



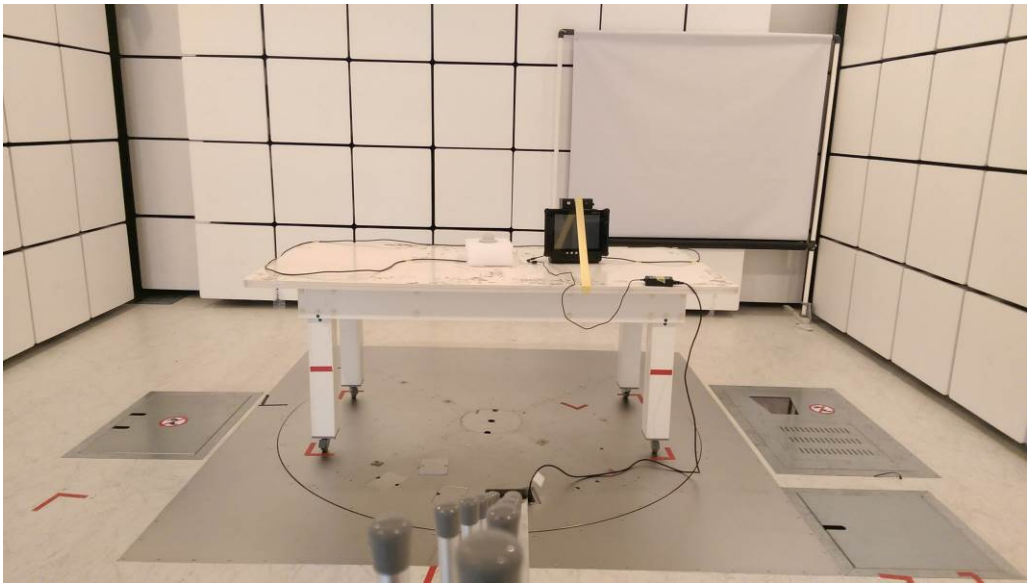


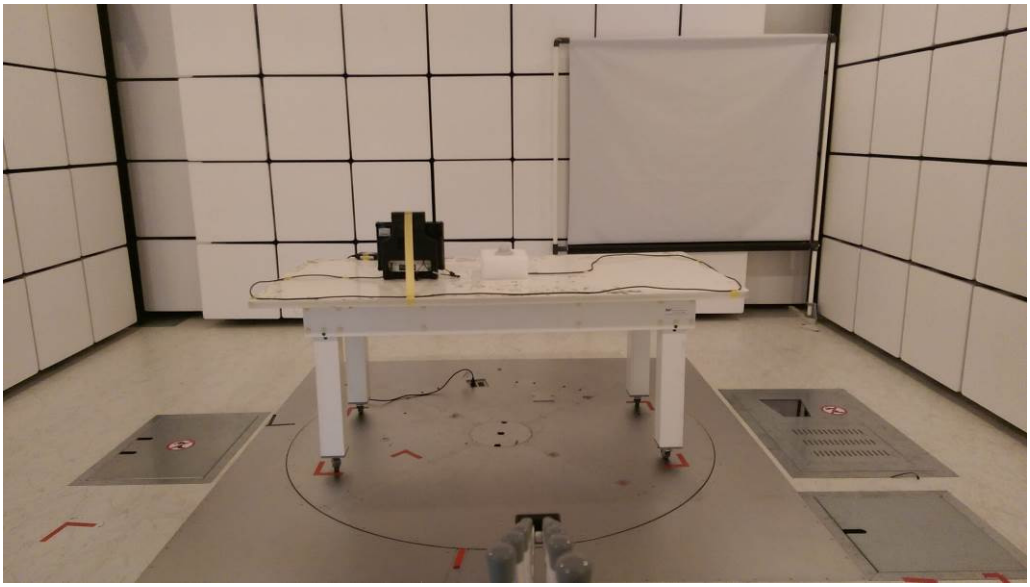
Radiated Measurement Photos
30MHz to 1000MHz
Stand-alone (Battery+Adapter)



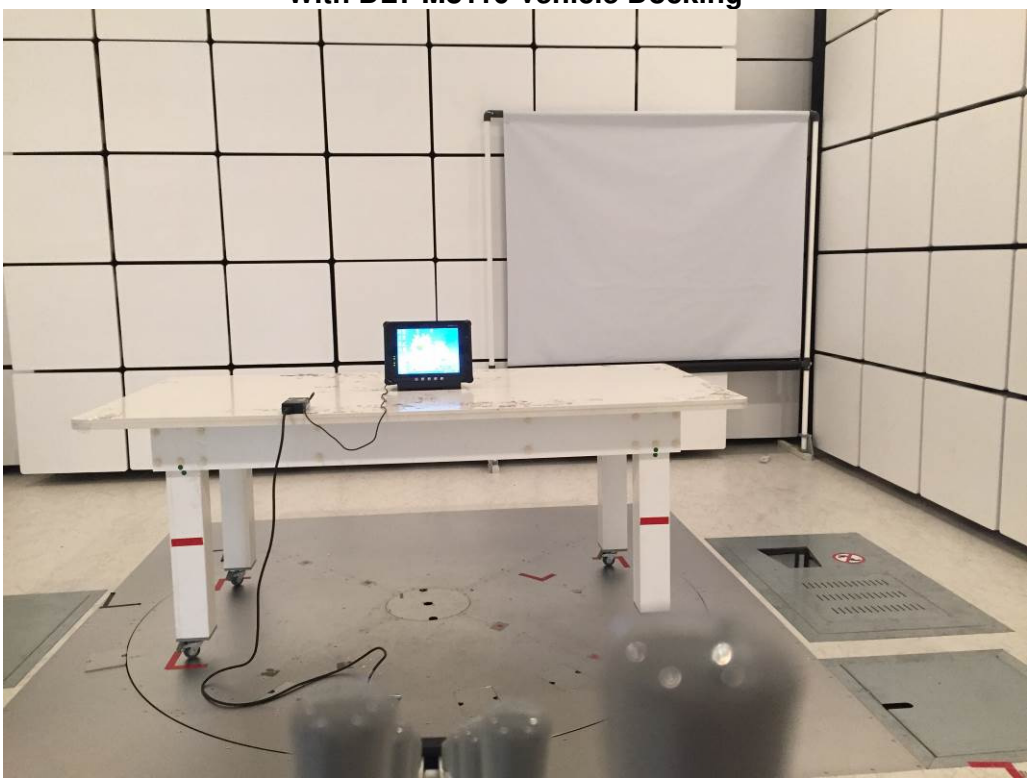


Radiated Measurement Photos
30MHz to 1000MHz
With DLT-M8110 Desk Docking





Radiated Measurement Photos
30MHz to 1000MHz
With DLT-M8110 Vehicle Docking

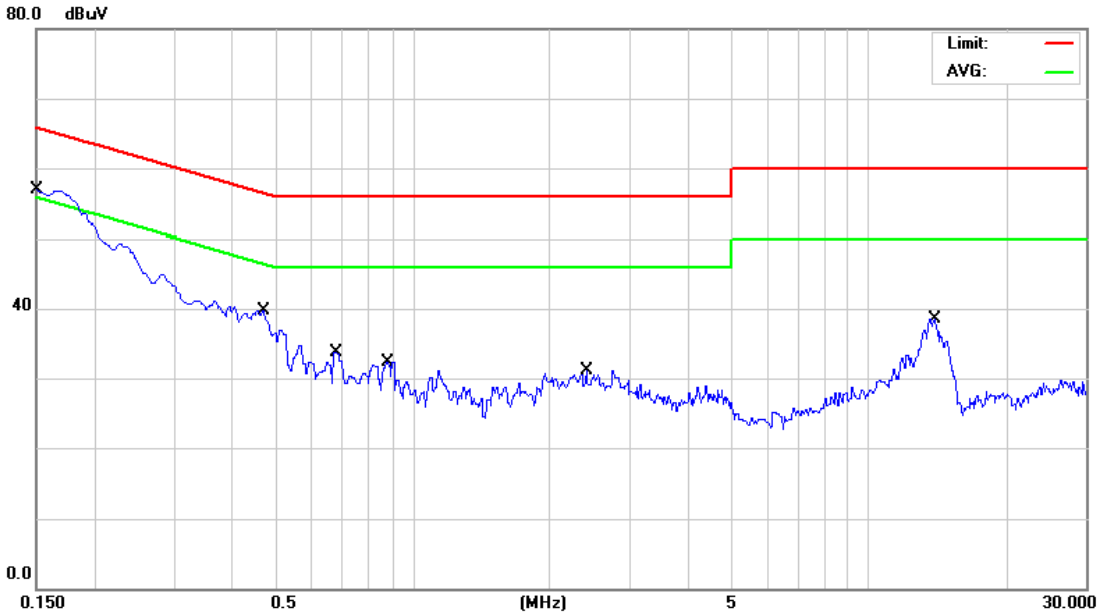


Radiated Measurement Photos
Above 1000MHz
Stand-alone (Battery+Adapter)

ATTACHMENT A - CONDUCTED EMISSION

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

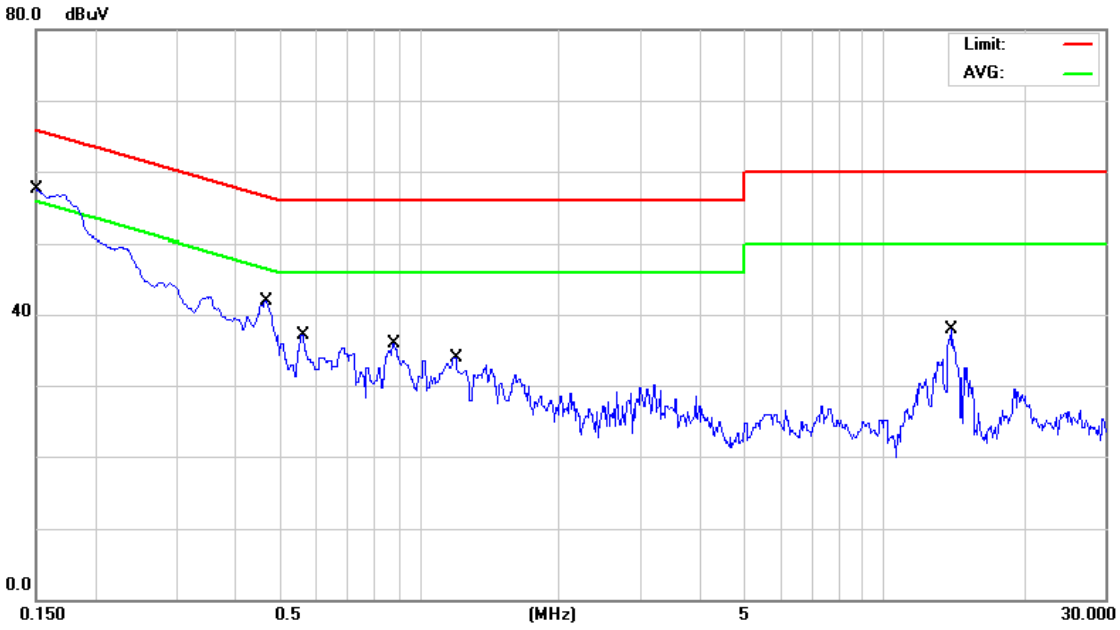
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	33.00	9.68	42.68	65.99	-23.31	QP	
2		0.1500	14.90	9.68	24.58	55.99	-31.41	AVG	
3		0.4692	23.10	9.69	32.79	56.53	-23.74	QP	
4	*	0.4692	16.90	9.69	26.59	46.53	-19.94	AVG	
5		0.6800	15.60	9.70	25.30	56.00	-30.70	QP	
6		0.6800	8.90	9.70	18.60	46.00	-27.40	AVG	
7		0.8780	16.10	9.71	25.81	56.00	-30.19	QP	
8		0.8780	8.60	9.71	18.31	46.00	-27.69	AVG	
9		2.4080	13.40	9.78	23.18	56.00	-32.82	QP	
10		2.4080	6.80	9.78	16.58	46.00	-29.42	AVG	
11		14.0500	20.10	9.88	29.98	60.00	-30.02	QP	
12		14.0500	11.40	9.88	21.28	50.00	-28.72	AVG	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

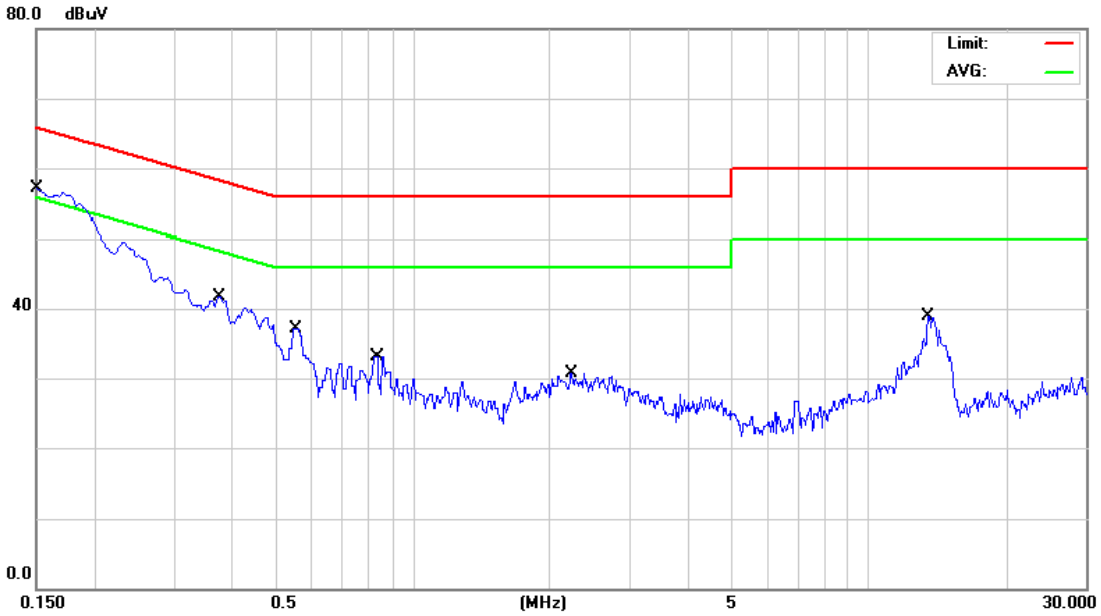
Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	32.90	9.69	42.59	65.99	-23.40	QP	
2		0.1500	15.80	9.69	25.49	55.99	-30.50	AVG	
3		0.4664	24.80	9.69	34.49	56.58	-22.09	QP	
4	*	0.4664	19.50	9.69	29.19	46.58	-17.39	AVG	
5		0.5630	21.90	9.69	31.59	56.00	-24.41	QP	
6		0.5630	12.20	9.69	21.89	46.00	-24.11	AVG	
7		0.8780	21.00	9.72	30.72	56.00	-25.28	QP	
8		0.8780	13.10	9.72	22.82	46.00	-23.18	AVG	
9		1.1930	18.90	9.73	28.63	56.00	-27.37	QP	
10		1.1930	11.20	9.73	20.93	46.00	-25.07	AVG	
11		14.0500	19.90	9.89	29.79	60.00	-30.21	QP	
12		14.0500	9.20	9.89	19.09	50.00	-30.91	AVG	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

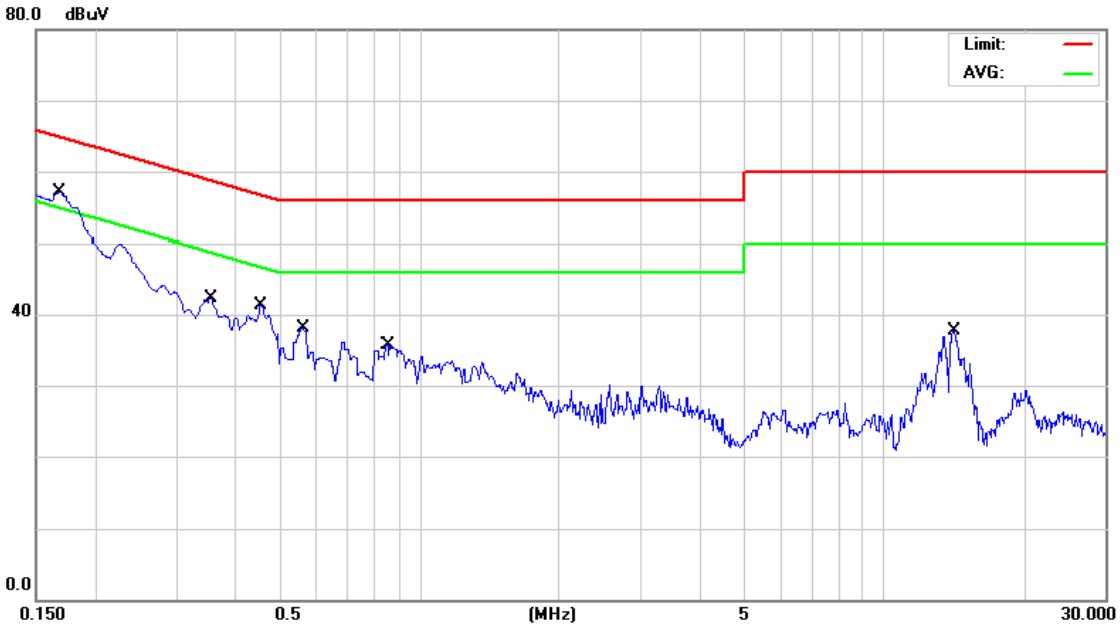
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	33.10	9.68	42.78	65.99	-23.21	QP	
2		0.1500	15.10	9.68	24.78	55.99	-31.21	AVG	
3		0.3754	22.60	9.68	32.28	58.38	-26.10	QP	
4		0.3754	13.50	9.68	23.18	48.38	-25.20	AVG	
5		0.5540	17.10	9.69	26.79	56.00	-29.21	QP	
6		0.5540	8.60	9.69	18.29	46.00	-27.71	AVG	
7		0.8330	15.00	9.70	24.70	56.00	-31.30	QP	
8		0.8330	7.70	9.70	17.40	46.00	-28.60	AVG	
9		2.2280	13.90	9.78	23.68	56.00	-32.32	QP	
10		2.2280	7.50	9.78	17.28	46.00	-28.72	AVG	
11		13.6000	20.40	9.89	30.29	60.00	-29.71	QP	
12		13.6000	11.30	9.89	21.19	50.00	-28.81	AVG	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

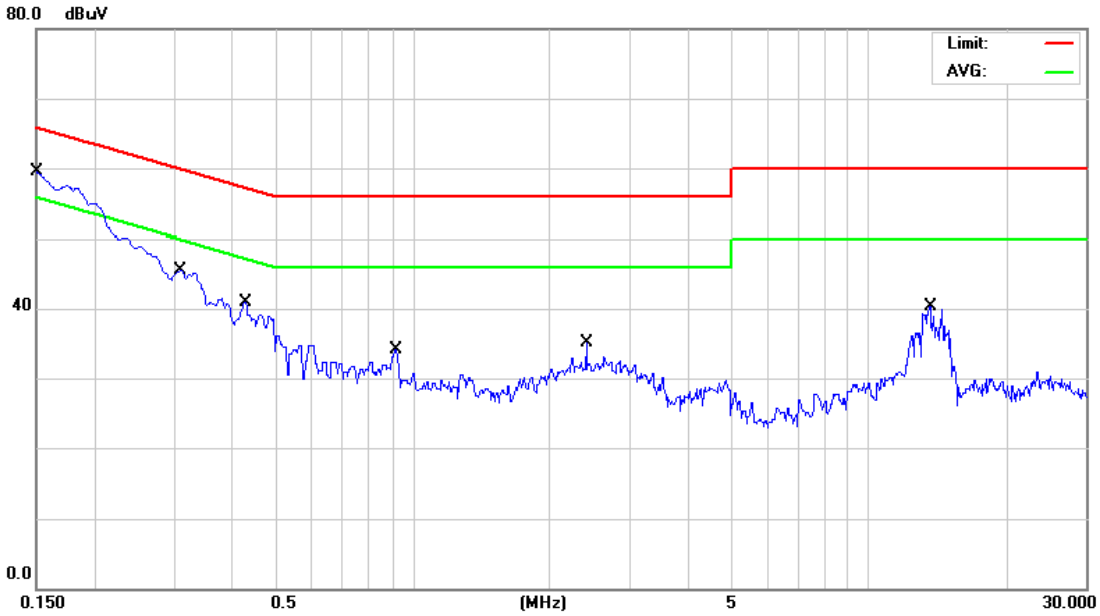
Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1682	39.50	9.69	49.19	65.04	-15.85	QP	
2		0.1682	20.90	9.69	30.59	55.04	-24.45	AVG	
3		0.3551	24.10	9.68	33.78	58.84	-25.06	QP	
4		0.3551	17.70	9.68	27.38	48.84	-21.46	AVG	
5		0.4559	22.90	9.69	32.59	56.77	-24.18	QP	
6		0.4559	14.50	9.69	24.19	46.77	-22.58	AVG	
7		0.5630	19.50	9.69	29.19	56.00	-26.81	QP	
8		0.5630	9.40	9.69	19.09	46.00	-26.91	AVG	
9		0.8510	18.60	9.71	28.31	56.00	-27.69	QP	
10		0.8510	10.10	9.71	19.81	46.00	-26.19	AVG	
11		14.1500	19.60	9.89	29.49	60.00	-30.51	QP	
12		14.1500	8.80	9.89	18.69	50.00	-31.31	AVG	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

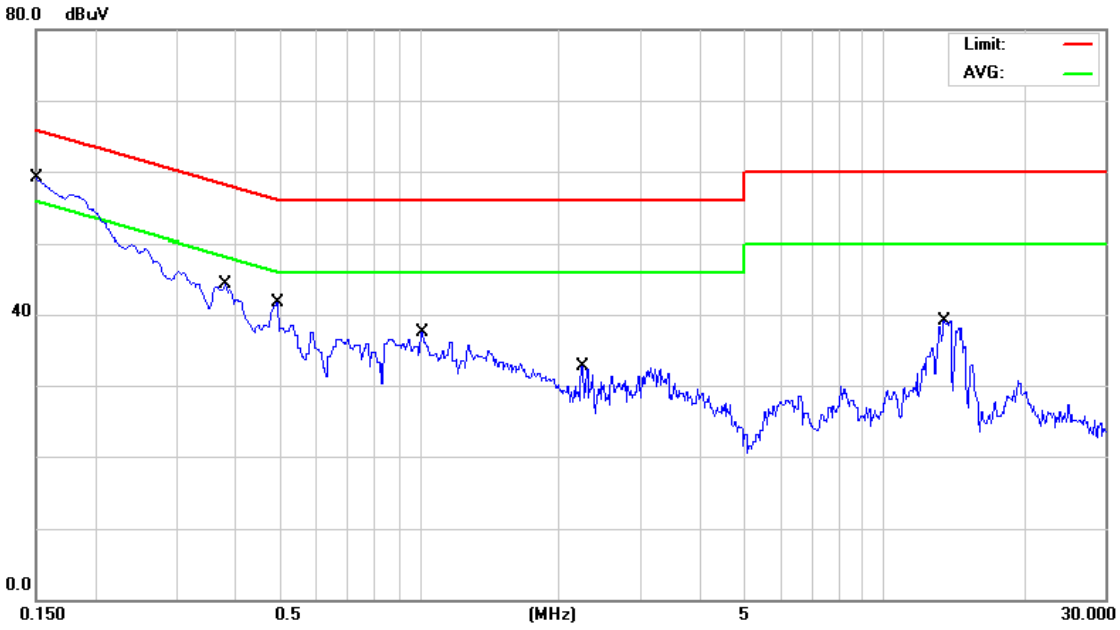
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	35.60	9.68	45.28	65.99	-20.71	QP	
2		0.1500	15.80	9.68	25.48	55.99	-30.51	AVG	
3		0.3096	26.00	9.68	35.68	59.98	-24.30	QP	
4		0.3096	10.40	9.68	20.08	49.98	-29.90	AVG	
5		0.4286	22.00	9.69	31.69	57.28	-25.59	QP	
6		0.4286	11.80	9.69	21.49	47.28	-25.79	AVG	
7		0.9140	16.90	9.71	26.61	56.00	-29.39	QP	
8		0.9140	7.40	9.71	17.11	46.00	-28.89	AVG	
9		2.4080	16.00	9.78	25.78	56.00	-30.22	QP	
10		2.4080	7.70	9.78	17.48	46.00	-28.52	AVG	
11		13.6500	22.80	9.89	32.69	60.00	-27.31	QP	
12		13.6500	13.80	9.89	23.69	50.00	-26.31	AVG	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

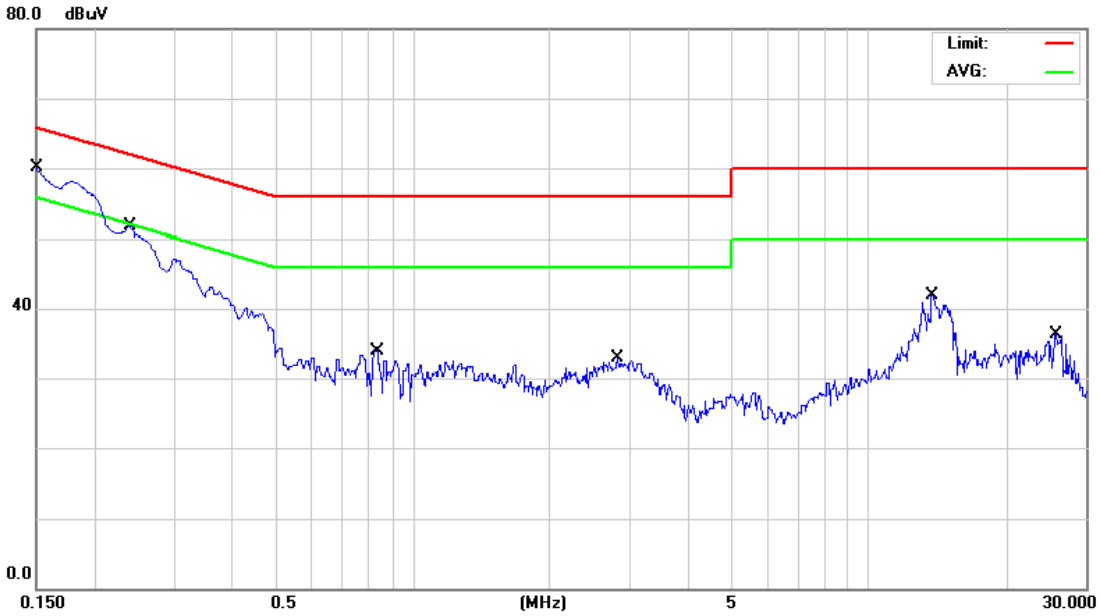
Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	36.60	9.69	46.29	65.99	-19.70	QP	
2		0.1500	16.70	9.69	26.39	55.99	-29.60	AVG	
3		0.3817	24.70	9.68	34.38	58.24	-23.86	QP	
4		0.3817	14.00	9.68	23.68	48.24	-24.56	AVG	
5		0.4951	25.10	9.69	34.79	56.08	-21.29	QP	
6		0.4951	12.90	9.69	22.59	46.08	-23.49	AVG	
7		1.0130	20.90	9.72	30.62	56.00	-25.38	QP	
8		1.0130	9.60	9.72	19.32	46.00	-26.68	AVG	
9		2.2370	13.70	9.79	23.49	56.00	-32.51	QP	
10		2.2370	4.90	9.79	14.69	46.00	-31.31	AVG	
11		13.5000	22.50	9.90	32.40	60.00	-27.60	QP	
12		13.5000	11.90	9.90	21.80	50.00	-28.20	AVG	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110S)

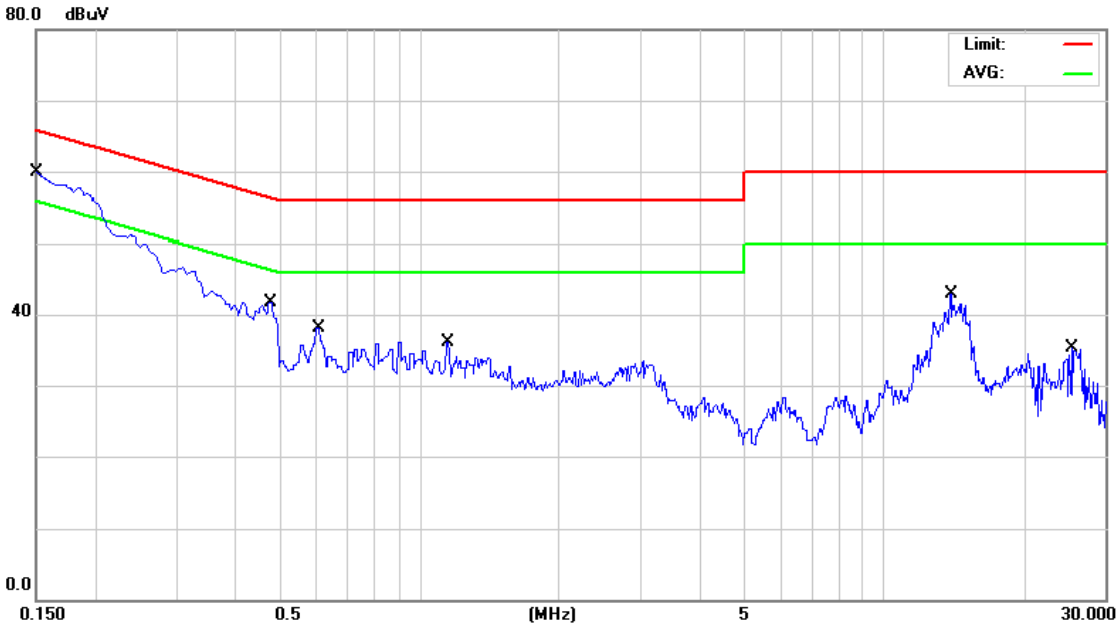
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	36.10	9.64	45.74	65.99	-20.25	QP	
2		0.1500	16.30	9.64	25.94	55.99	-30.05	AVG	
3		0.2382	28.50	9.64	38.14	62.16	-24.02	QP	
4		0.2382	8.70	9.64	18.34	52.16	-33.82	AVG	
5		0.8330	16.70	9.63	26.33	56.00	-29.67	QP	
6		0.8330	7.20	9.63	16.83	46.00	-29.17	AVG	
7		2.8220	15.90	9.65	25.55	56.00	-30.45	QP	
8		2.8220	7.30	9.65	16.95	46.00	-29.05	AVG	
9		13.8000	23.70	9.72	33.42	60.00	-26.58	QP	
10		13.8000	14.20	9.72	23.92	50.00	-26.08	AVG	
11		25.6000	18.60	9.72	28.32	60.00	-31.68	QP	
12		25.6000	13.40	9.72	23.12	50.00	-26.88	AVG	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110S)

Neutral

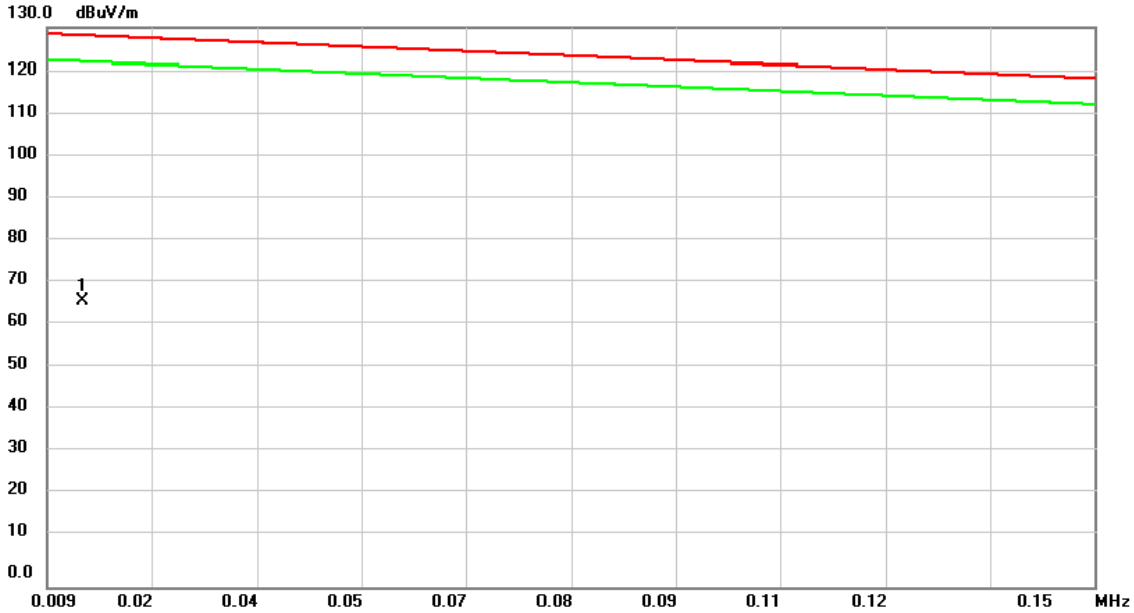


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	36.10	9.65	45.75	65.99	-20.24	QP	
2		0.1500	17.10	9.65	26.75	55.99	-29.24	AVG	
3		0.4776	22.60	9.63	32.23	56.38	-24.15	QP	
4		0.4776	11.50	9.63	21.13	46.38	-25.25	AVG	
5		0.6080	21.60	9.63	31.23	56.00	-24.77	QP	
6		0.6080	13.10	9.63	22.73	46.00	-23.27	AVG	
7		1.1480	19.20	9.64	28.84	56.00	-27.16	QP	
8		1.1480	10.40	9.64	20.04	46.00	-25.96	AVG	
9		13.9500	23.80	9.73	33.53	60.00	-26.47	QP	
10		13.9500	12.60	9.73	22.33	50.00	-27.67	AVG	
11		25.3000	22.80	9.73	32.53	60.00	-27.47	QP	
12	*	25.3000	21.40	9.73	31.13	50.00	-18.87	AVG	

ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L)

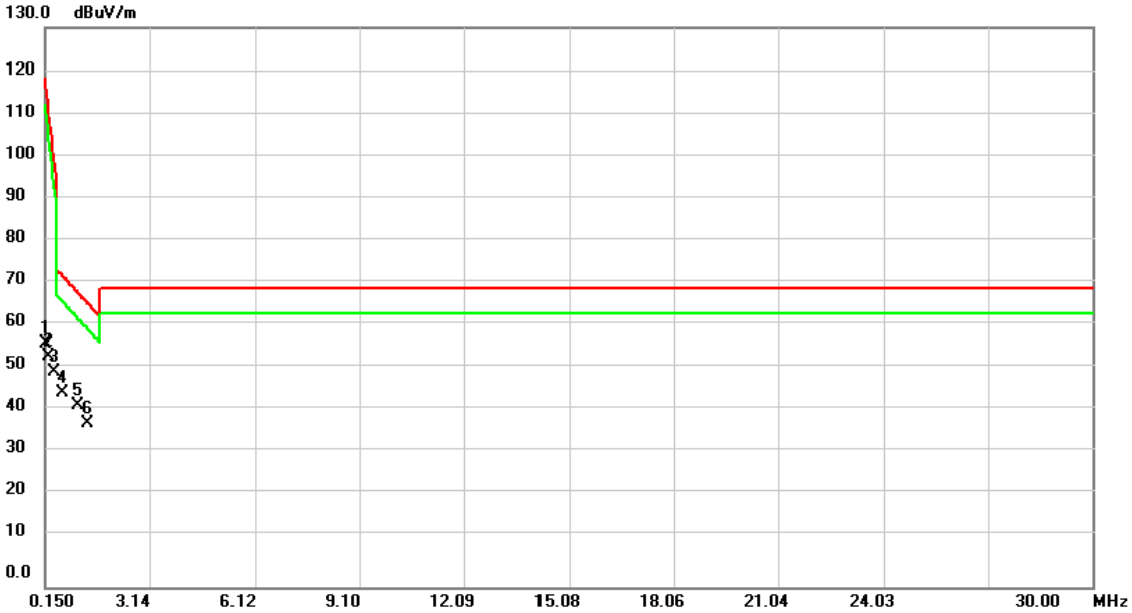
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0137	47.07	19.48	66.55	128.18	-61.63	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L)

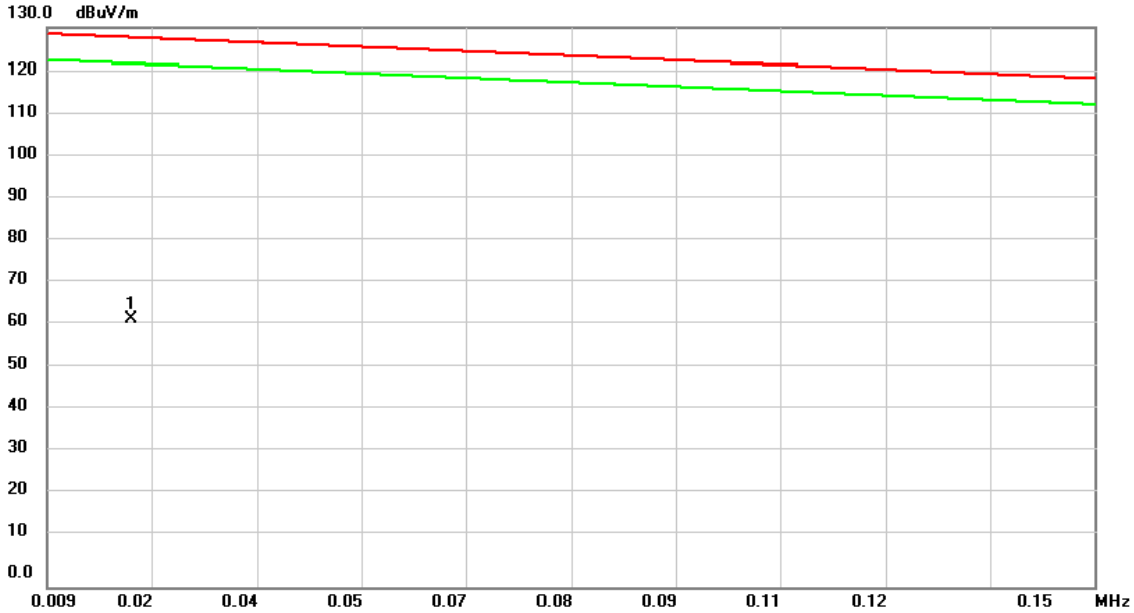
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1800	44.87	11.98	56.85	116.18	-59.33	peak	
2		0.2691	41.84	11.85	53.69	109.75	-56.06	peak	
3		0.4187	38.46	11.80	50.26	98.95	-48.69	peak	
4		0.6572	33.42	11.86	45.28	72.31	-27.03	peak	
5	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
6		1.3733	26.48	11.83	38.31	65.93	-27.62	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L)

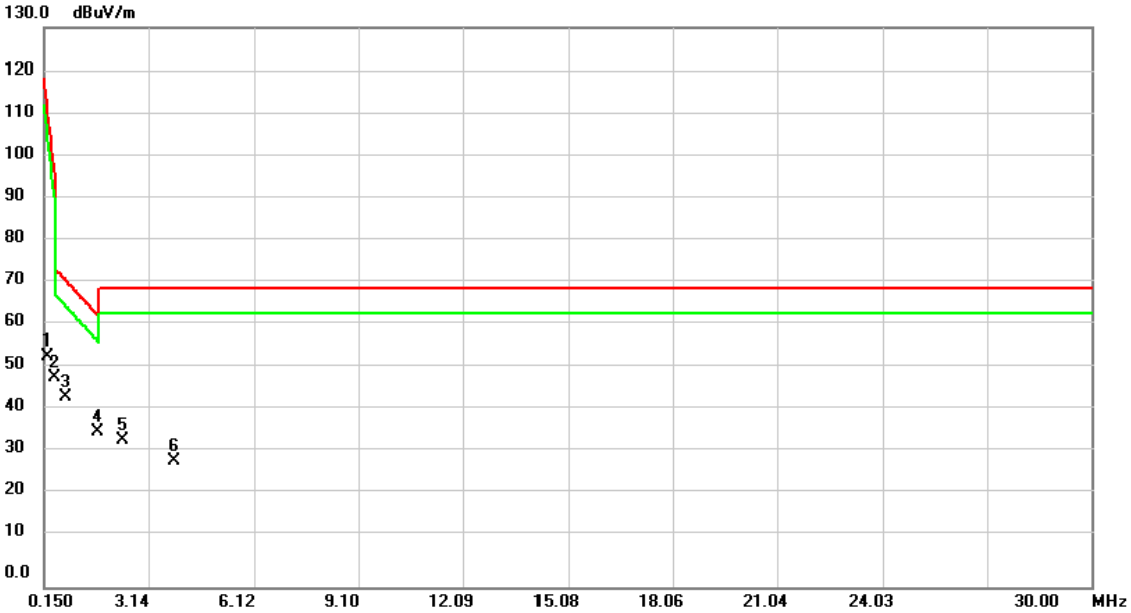
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0204	44.71	17.64	62.35	127.70	-65.35	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L)

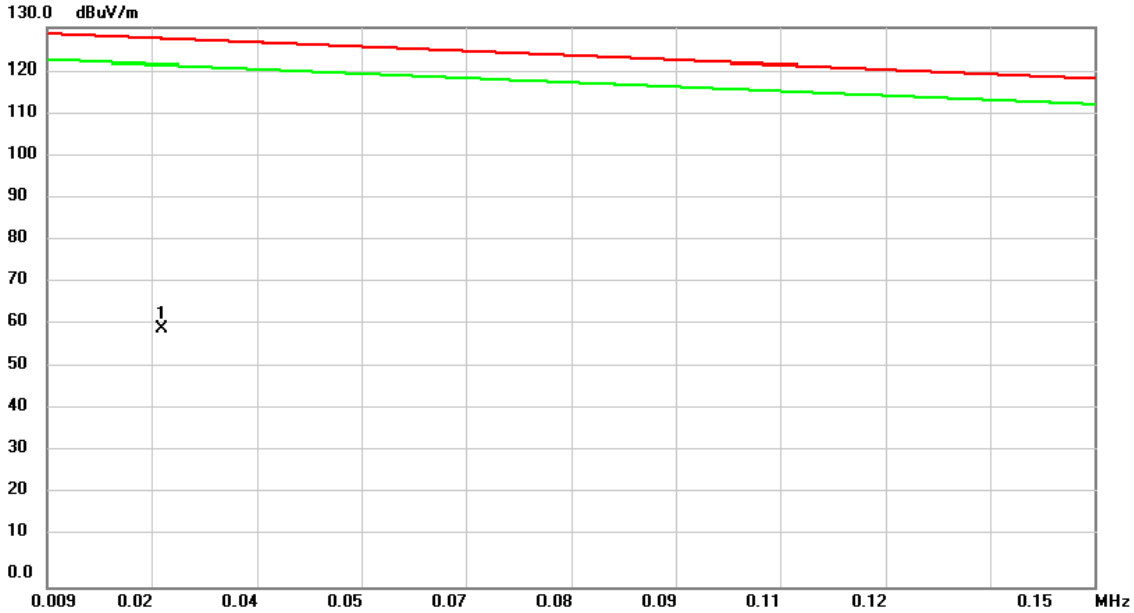
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2691	42.03	11.85	53.88	109.75	-55.87	peak	
2		0.4485	37.06	11.80	48.86	96.80	-47.94	peak	
3		0.7470	32.44	11.90	44.34	71.51	-27.17	peak	
4	*	1.7020	24.41	11.68	36.09	63.00	-26.91	peak	
5		2.3887	22.98	11.38	34.36	69.54	-35.18	peak	
6		3.8812	18.31	11.23	29.54	69.54	-40.00	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S)

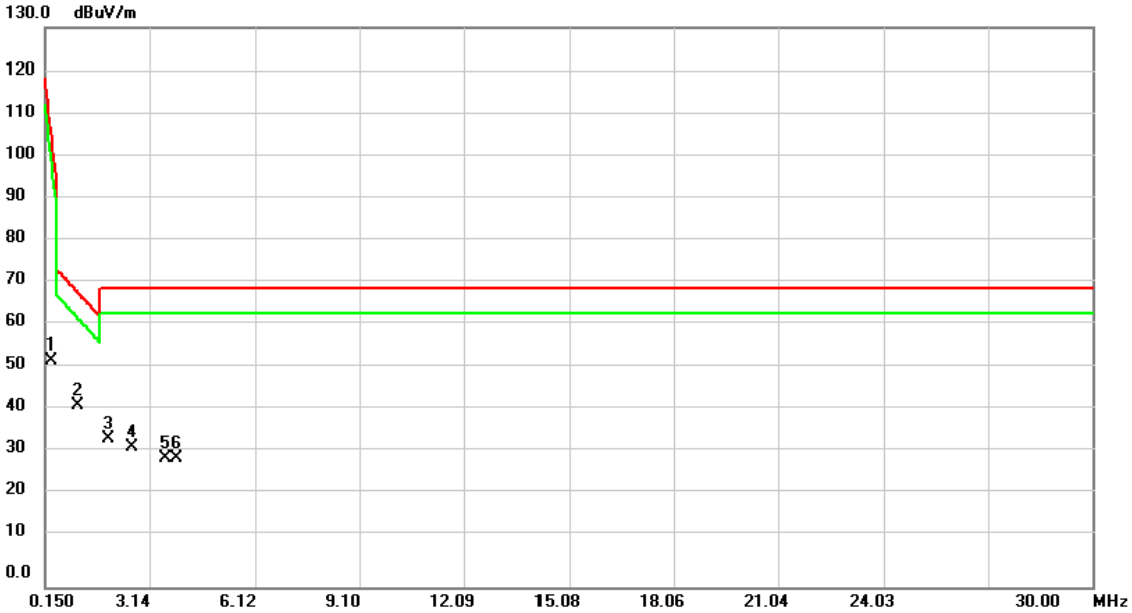
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0246	43.53	16.48	60.01	127.39	-67.38	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S)

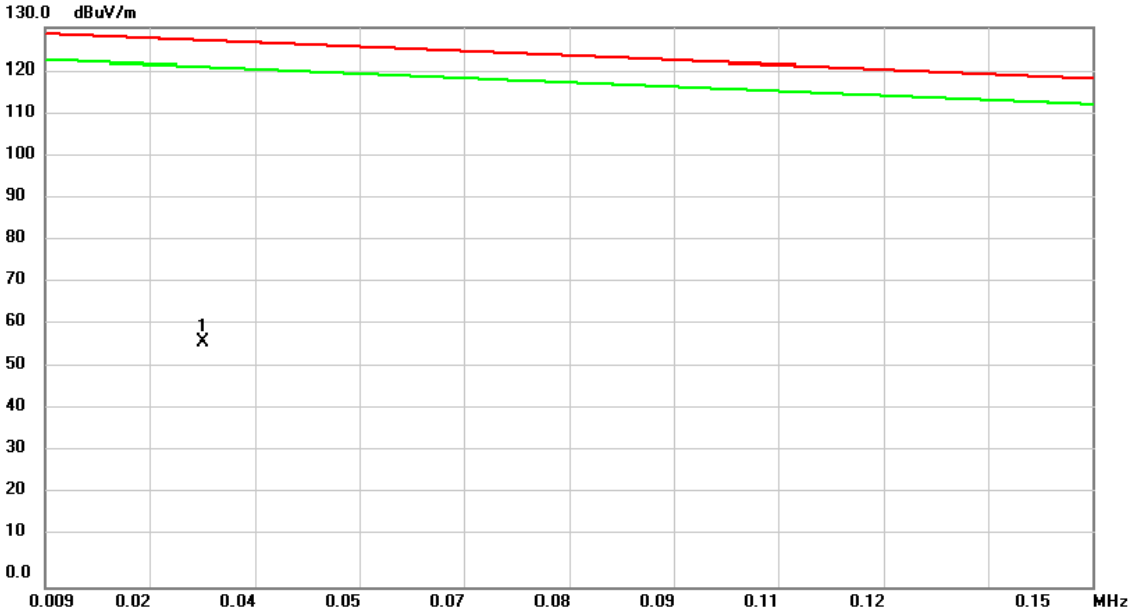
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3291	40.93	11.80	52.73	105.41	-52.68	peak	
2	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
3		1.9708	23.01	11.56	34.57	69.54	-34.97	peak	
4		2.6274	21.29	11.27	32.56	69.54	-36.98	peak	
5		3.5825	18.91	11.19	30.10	69.54	-39.44	peak	
6		3.9110	18.67	11.24	29.91	69.54	-39.63	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S)

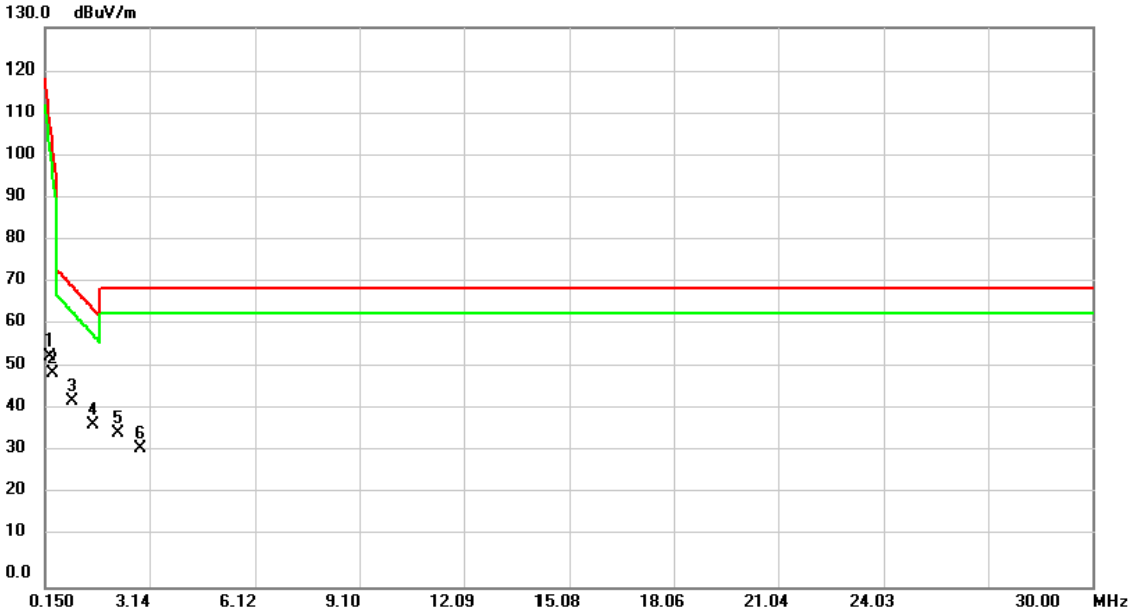
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0303	42.04	14.97	57.01	126.98	-69.97	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S)

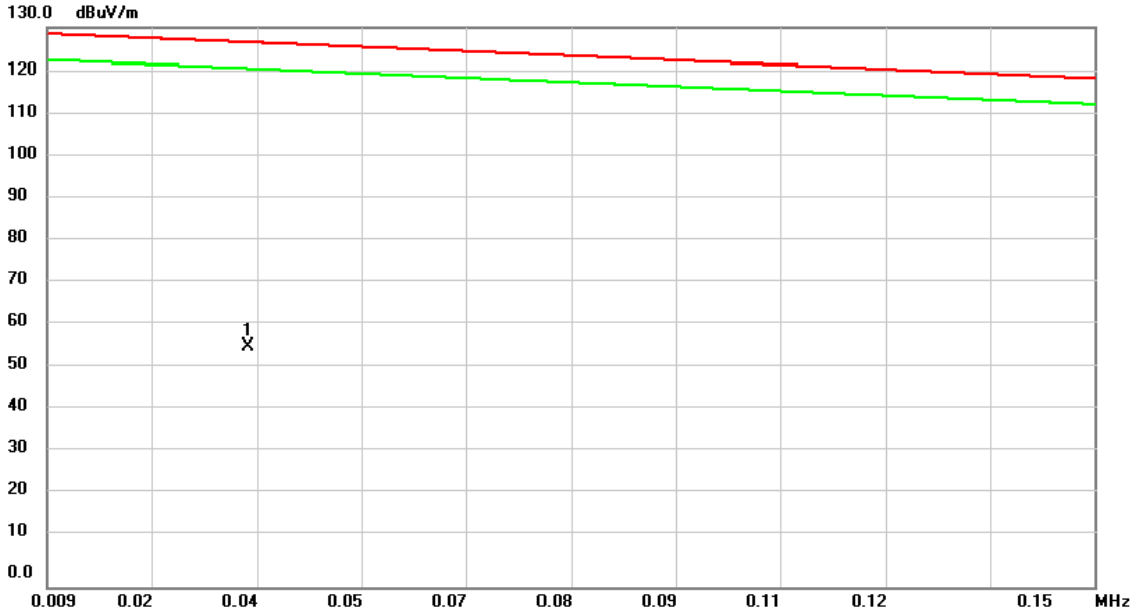
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2993	41.85	11.80	53.65	107.57	-53.92	peak	
2		0.3886	38.05	11.80	49.85	101.12	-51.27	peak	
3	*	0.9261	31.48	11.97	43.45	69.91	-26.46	peak	
4		1.5230	26.24	11.76	38.00	64.59	-26.59	peak	
5		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
6		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

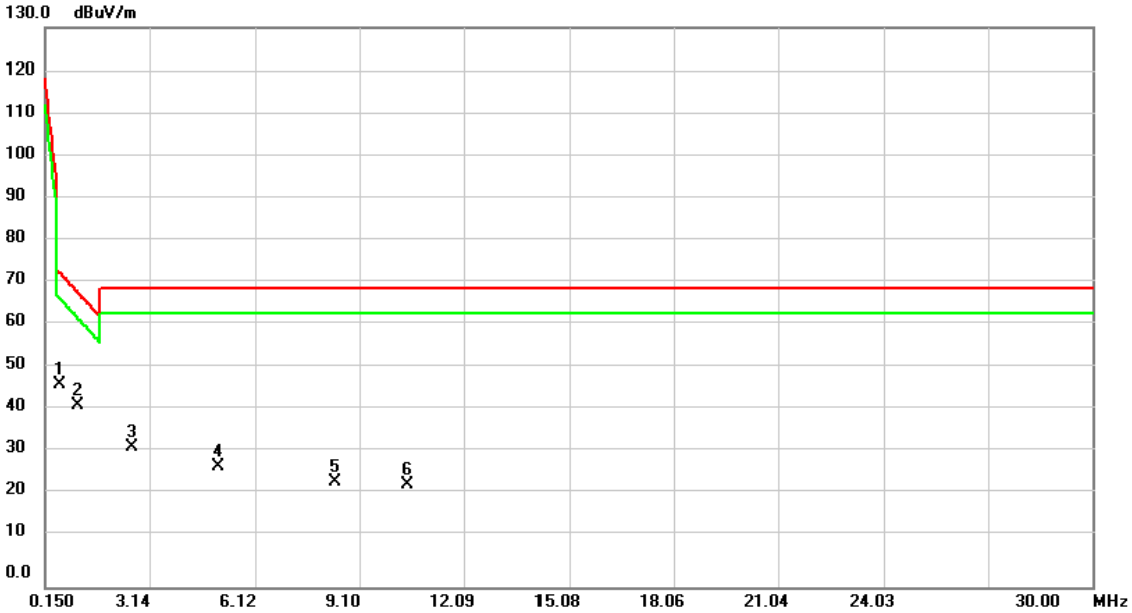
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0360	41.75	14.40	56.15	126.57	-70.42	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

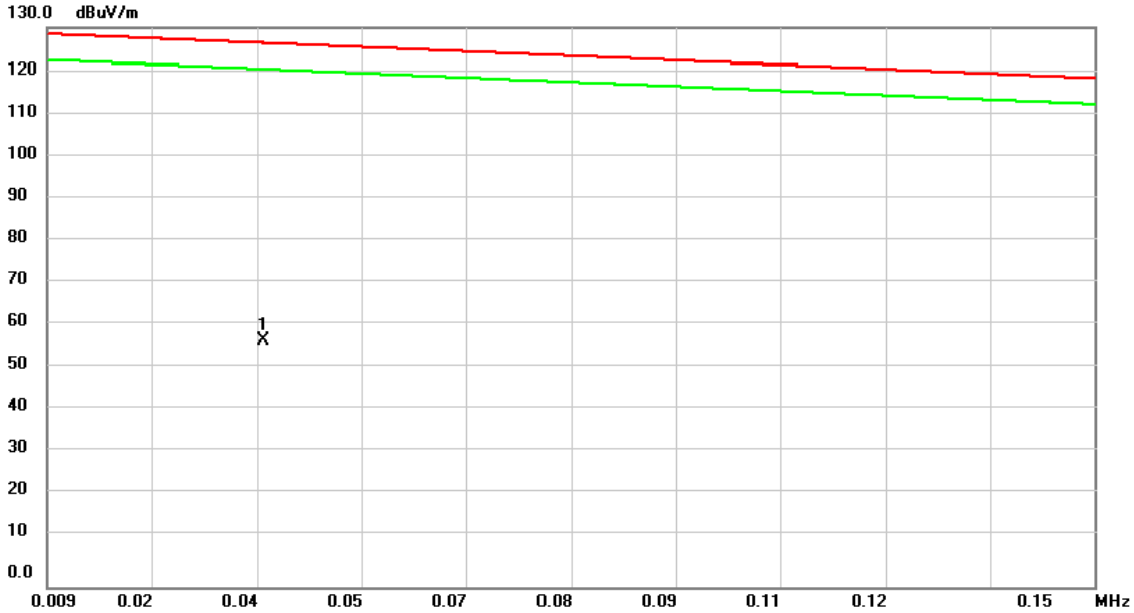
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.5675	35.40	11.83	47.23	73.11	-25.88	peak	
2		1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
3		2.6274	21.29	11.27	32.56	69.54	-36.98	peak	
4		5.1051	16.72	11.40	28.12	69.54	-41.42	peak	
5		8.4184	13.23	11.33	24.56	69.54	-44.98	peak	
6		10.4780	12.56	11.29	23.85	69.54	-45.69	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

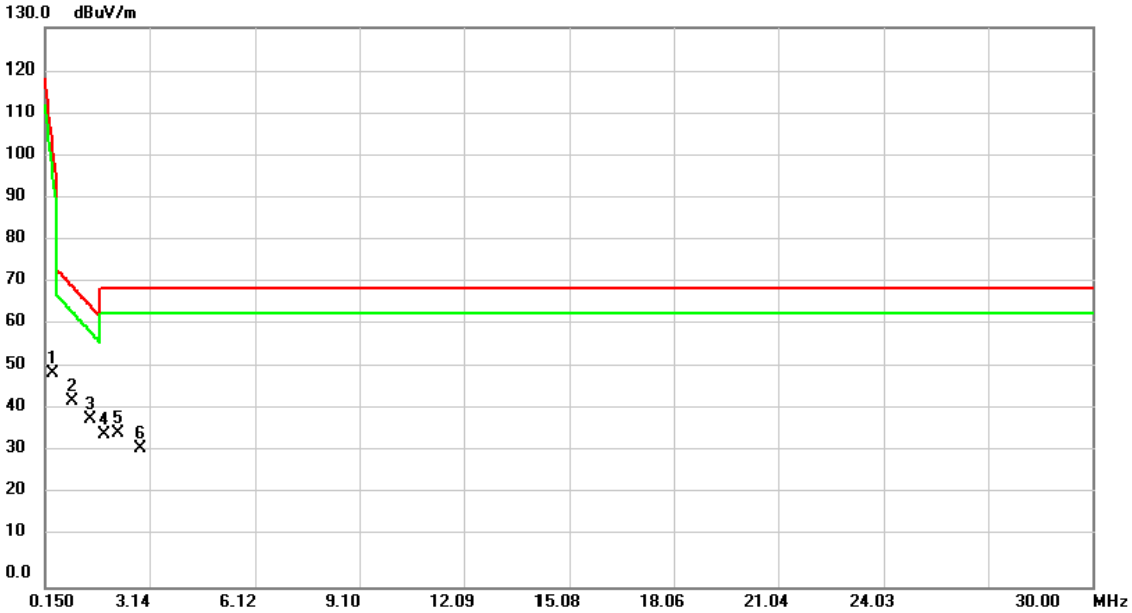
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0380	43.20	14.20	57.40	126.43	-69.03	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

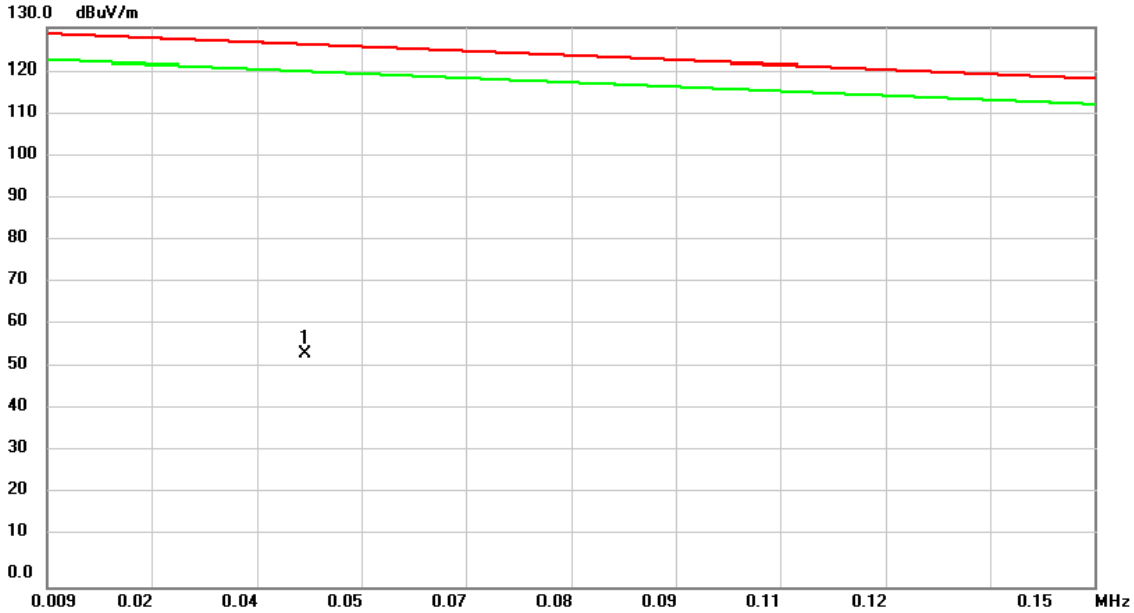
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3886	38.05	11.80	49.85	101.12	-51.27	peak	
2		0.9261	31.48	11.97	43.45	69.91	-26.46	peak	
3	*	1.4334	27.49	11.80	39.29	65.39	-26.10	peak	
4		1.8216	24.07	11.63	35.70	69.54	-33.84	peak	
5		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
6		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

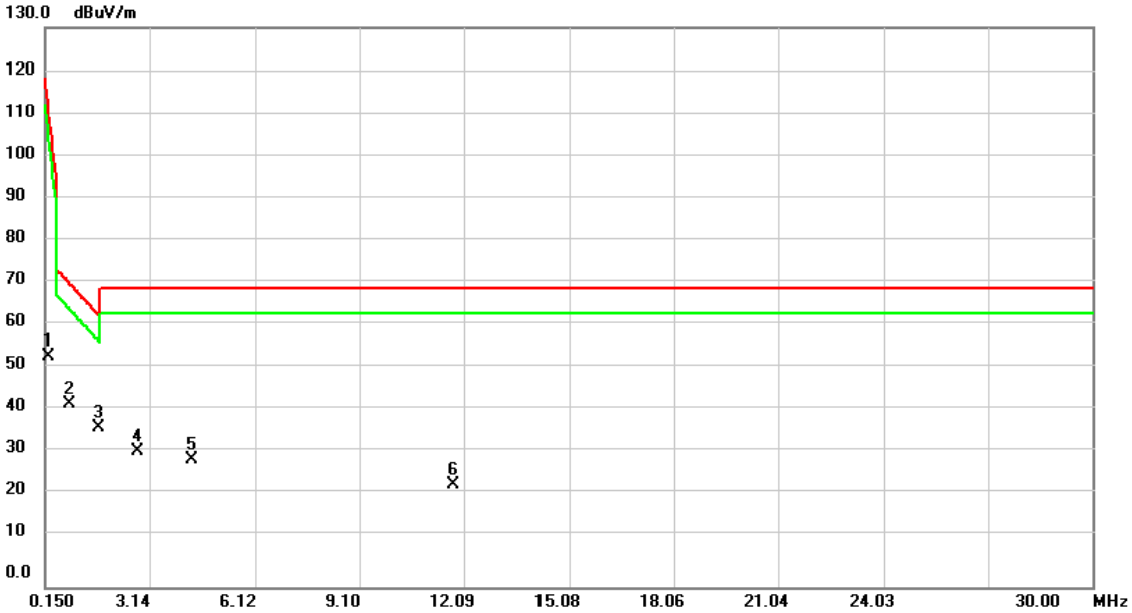
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0437	40.68	13.63	54.31	126.02	-71.71	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

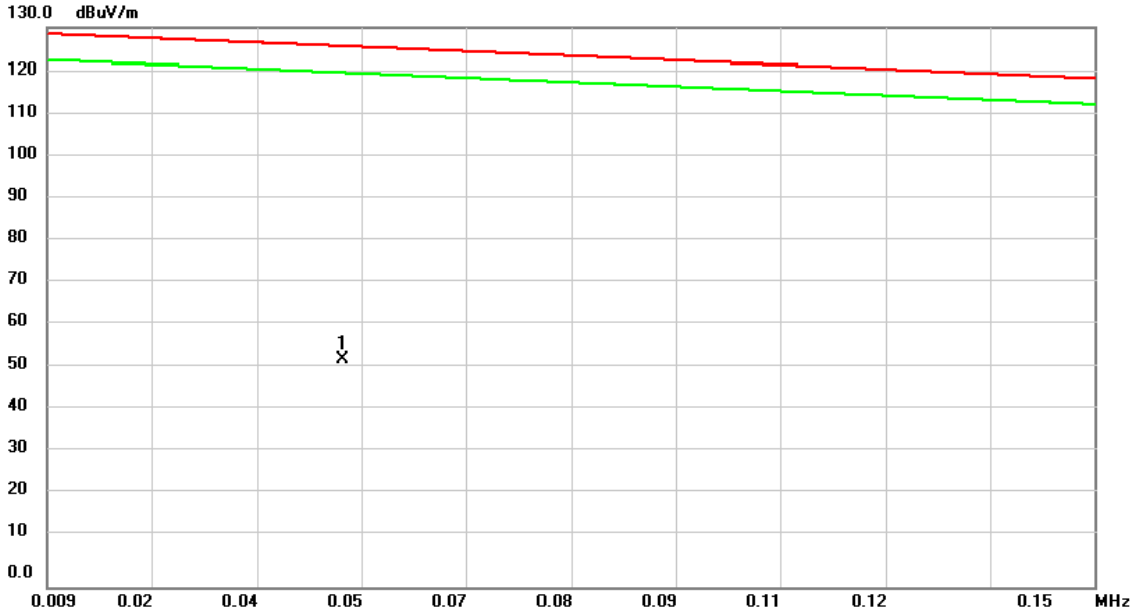
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2691	41.84	11.85	53.69	109.75	-56.06	peak	
2		0.8660	30.84	11.95	42.79	70.45	-27.66	peak	
3	*	1.7020	25.41	11.68	37.09	63.00	-25.91	peak	
4		2.8065	20.46	11.19	31.65	69.54	-37.89	peak	
5		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
6		11.7911	12.65	11.25	23.90	69.54	-45.64	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

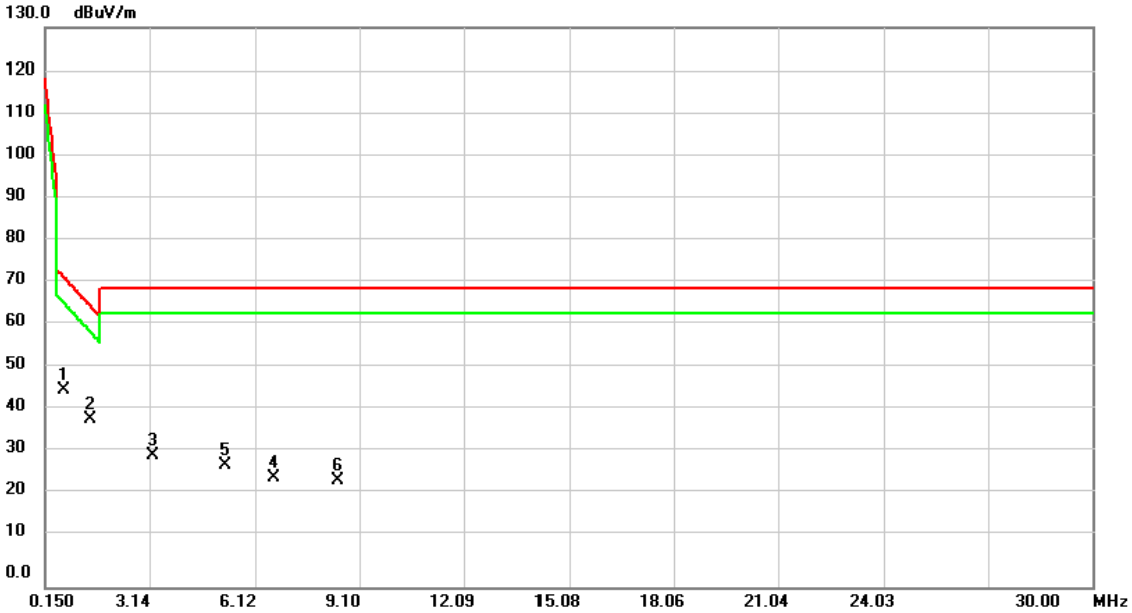
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0488	39.87	13.12	52.99	125.65	-72.66	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

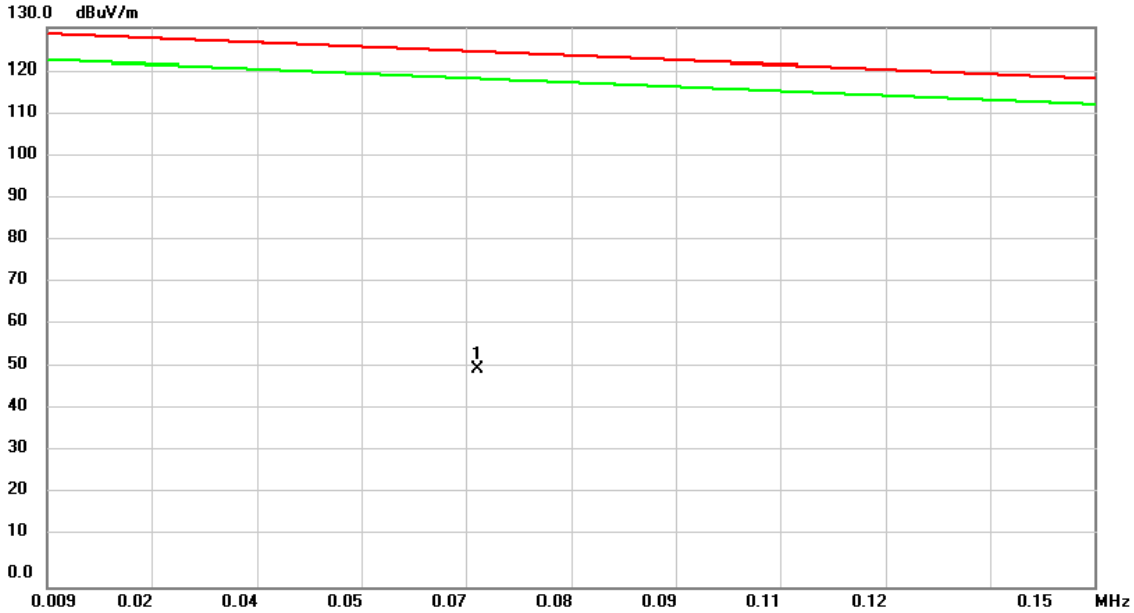
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.6873	34.17	11.87	46.04	72.04	-26.00	peak	
2		1.4334	27.49	11.80	39.29	65.39	-26.10	peak	
3		3.2244	19.70	11.13	30.83	69.54	-38.71	peak	
4		6.6573	14.15	11.37	25.52	69.54	-44.02	peak	
5		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
6		8.4780	13.54	11.33	24.87	69.54	-44.67	peak	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

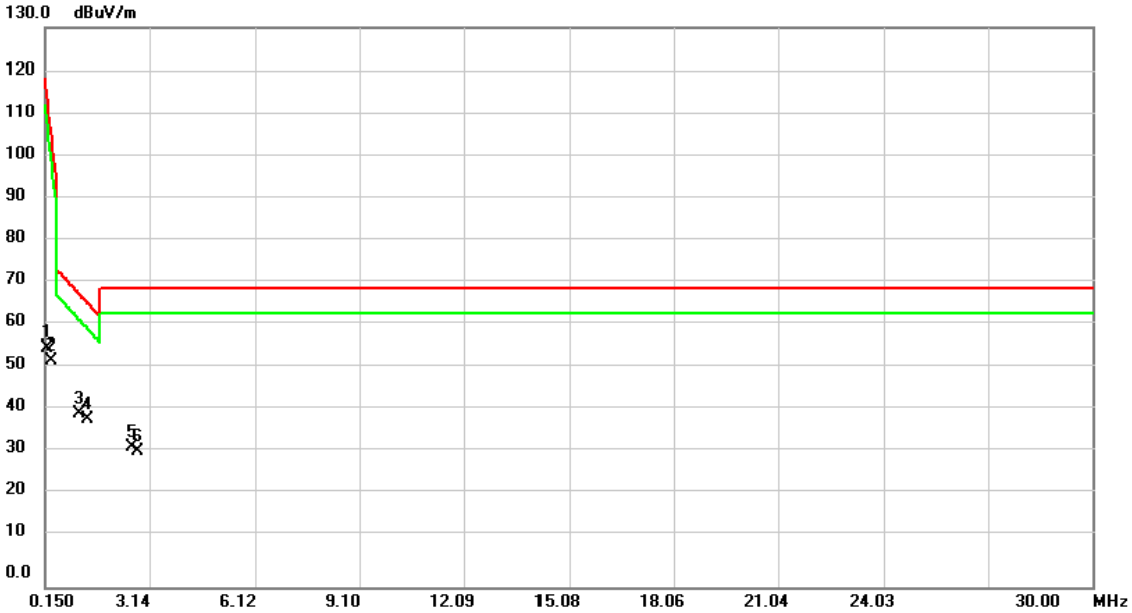
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0670	38.04	12.69	50.73	124.33	-73.60	peak	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

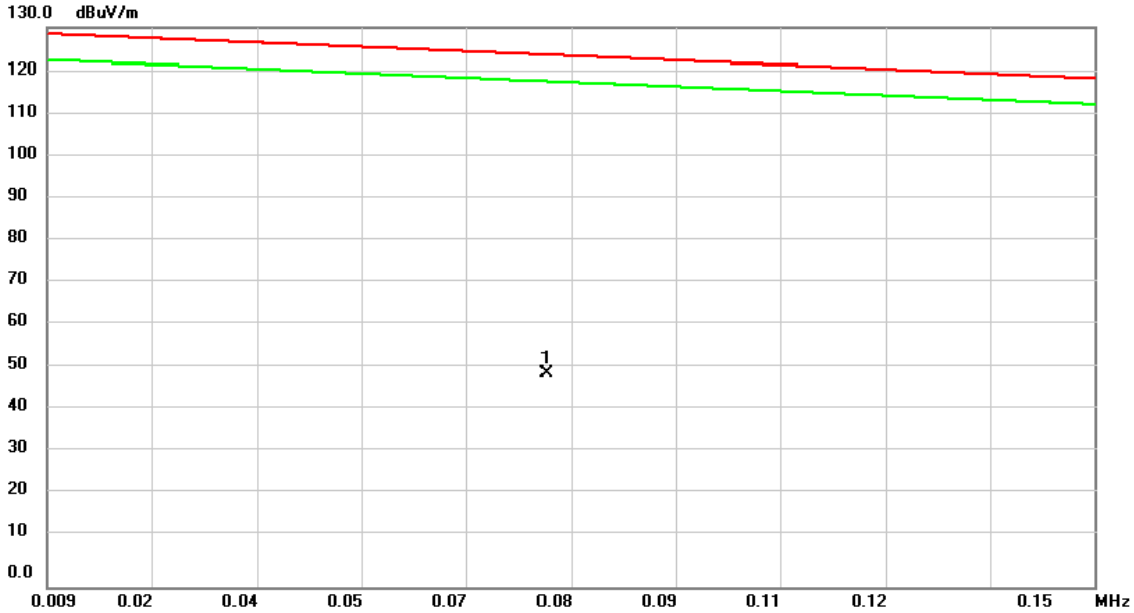
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2096	43.96	11.94	55.90	114.04	-58.14	peak	
2		0.3291	40.93	11.80	52.73	105.41	-52.68	peak	
3		1.1350	28.52	11.94	40.46	68.05	-27.59	peak	
4	*	1.3440	27.36	11.85	39.21	66.19	-26.98	peak	
5		2.6274	21.29	11.27	32.56	69.54	-36.98	peak	
6		2.8065	20.46	11.19	31.65	69.54	-37.89	peak	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

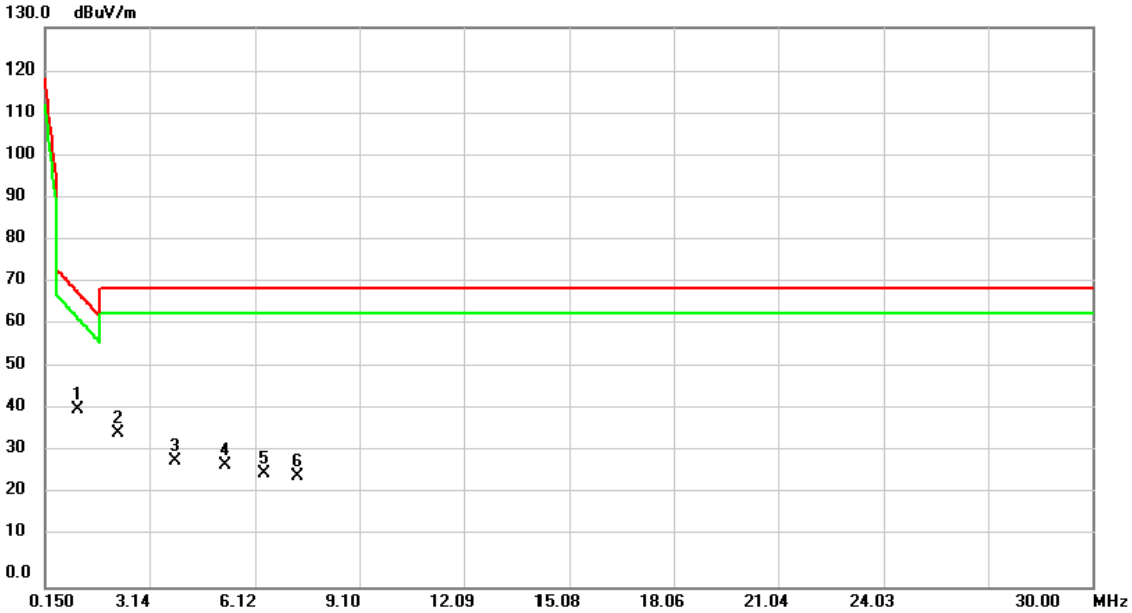
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0763	37.36	12.53	49.89	123.66	-73.77	peak	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

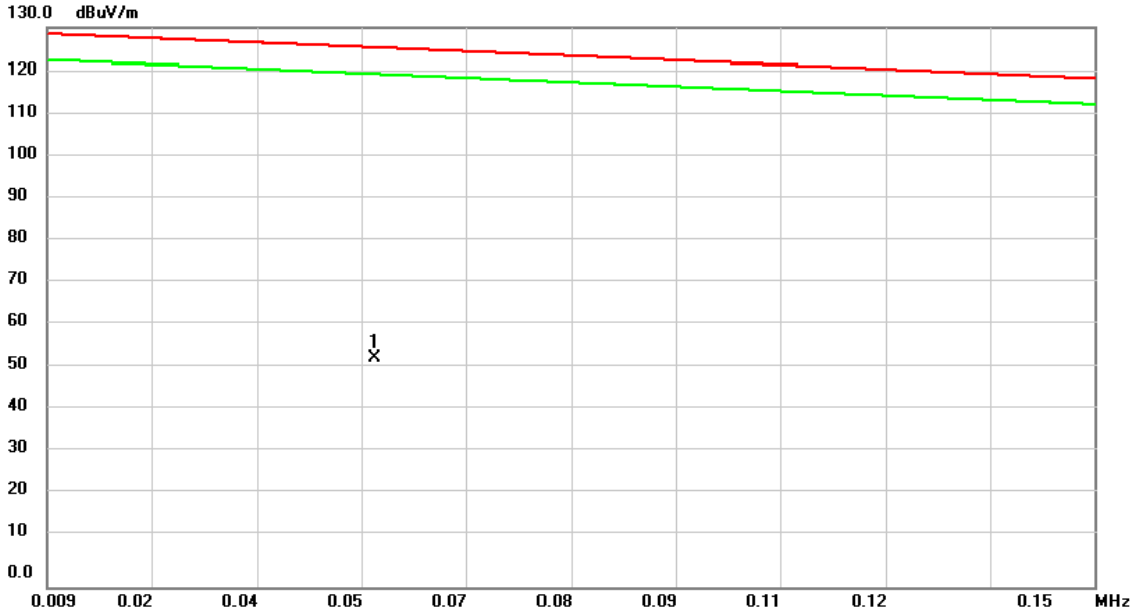
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1.1050	29.36	11.95	41.31	68.32	-27.01	peak	No Limit
2		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
3		3.8812	18.31	11.23	29.54	69.54	-40.00	peak	
4		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
5		6.3887	15.28	11.37	26.65	69.54	-42.89	peak	
6		7.3437	14.47	11.35	25.82	69.54	-43.72	peak	

Test Mode:	TX Mode_With DLT-M8110 Vehicle Docking (Battery_DLT-M8110L)

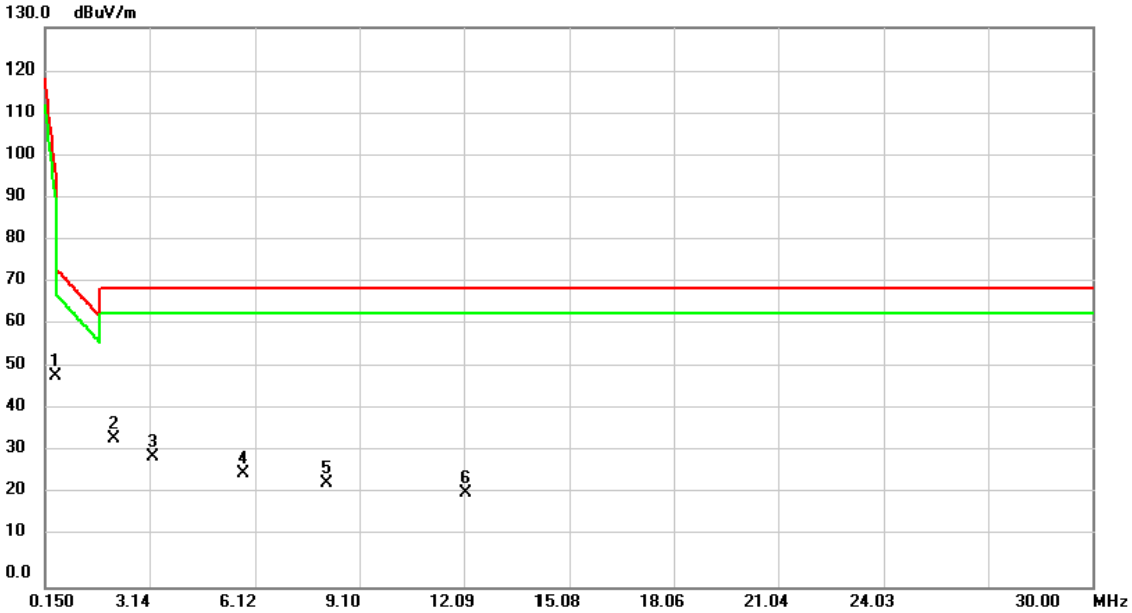
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0530	40.57	12.95	53.52	125.34	-71.82	peak	

Test Mode:	TX Mode_With DLT-M8110 Vehicle Docking (Battery_DLT-M8110L)

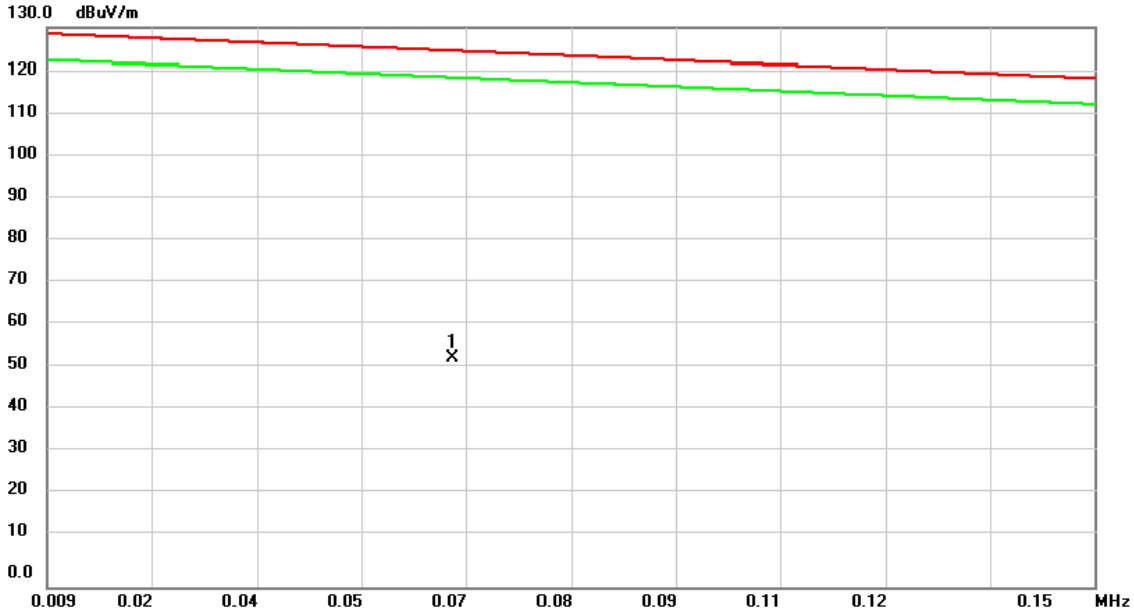
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4485	37.41	11.80	49.21	96.80	-47.59	peak	
2	*	2.1200	23.06	11.50	34.56	69.54	-34.98	peak	
3		3.2244	19.31	11.13	30.44	69.54	-39.10	peak	
4		5.7618	14.96	11.38	26.34	69.54	-43.20	peak	
5		8.1797	12.99	11.34	24.33	69.54	-45.21	peak	
6		12.1493	10.57	11.24	21.81	69.54	-47.73	peak	

Test Mode:	TX Mode_With DLT-M8110 Vehicle Docking (Battery_DLT-M8110L)

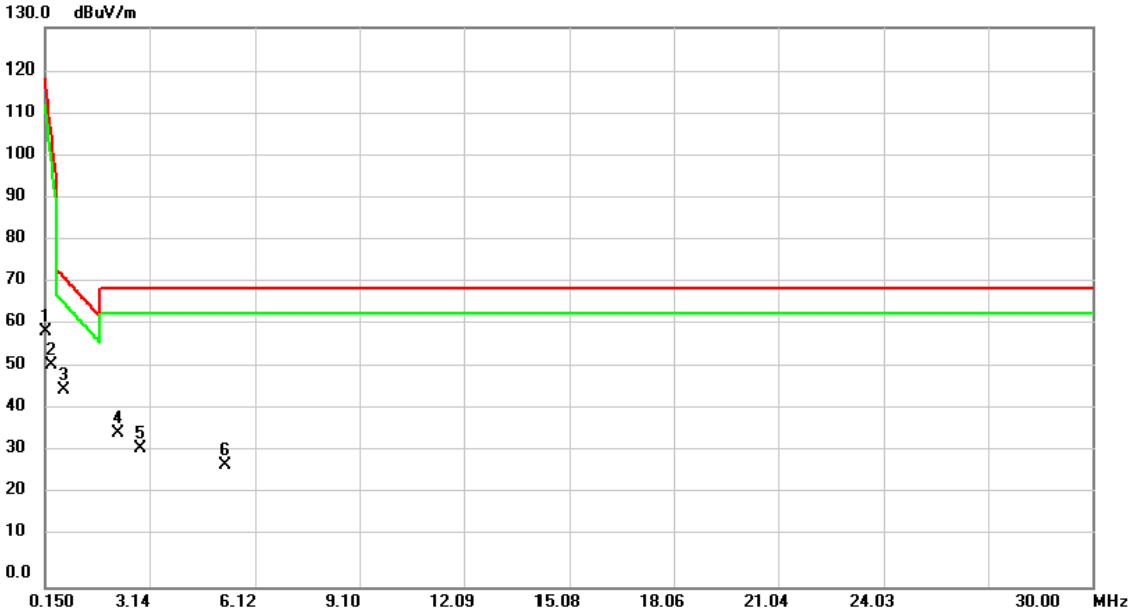
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0637	40.61	12.75	53.36	124.57	-71.21	peak	

Test Mode:	TX Mode_With DLT-M8110 Vehicle Docking (Battery_DLT-M8110L)

Close

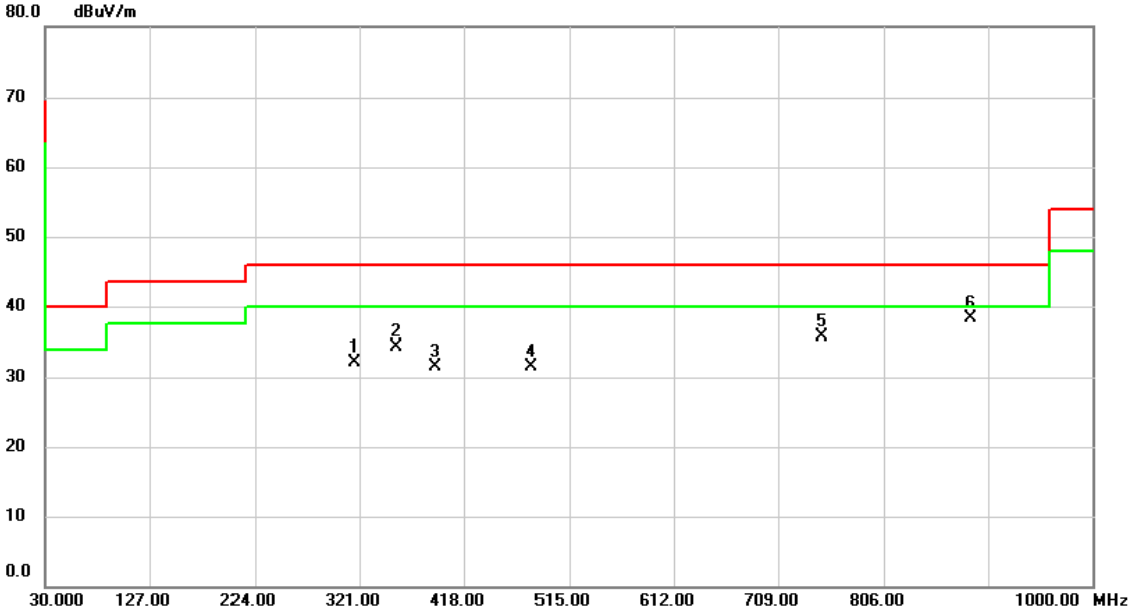


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2		0.3291	40.16	11.80	51.96	105.41	-53.45	peak	
3	*	0.6873	34.17	11.87	46.04	72.04	-26.00	peak	
4		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
5		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	
6		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	

ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L)

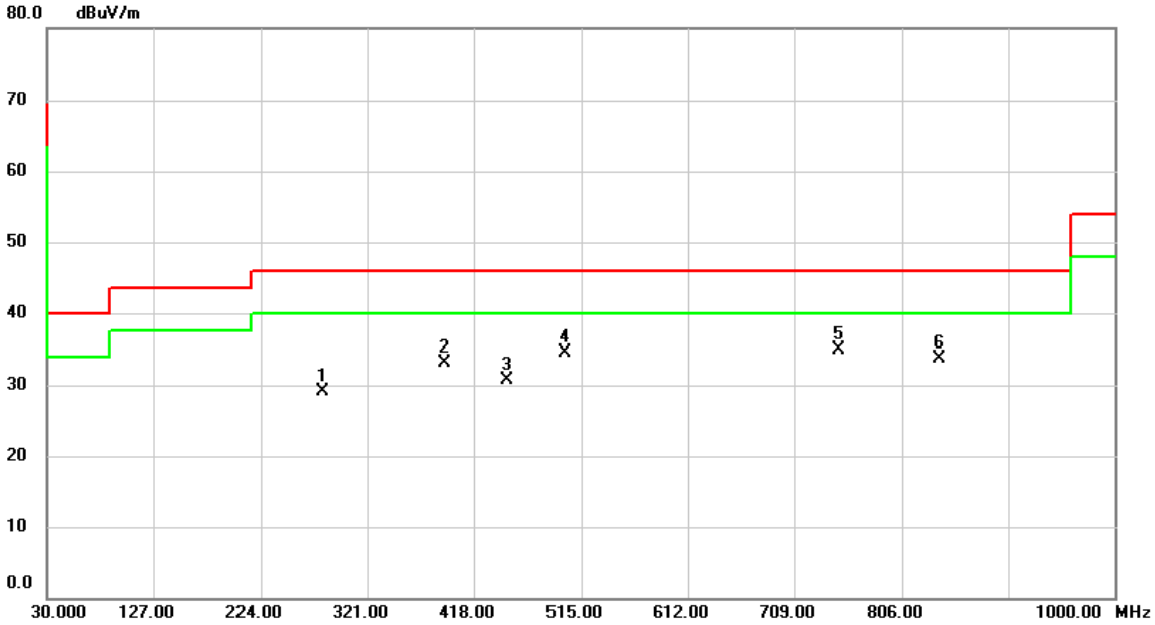
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		316.1500	39.10	-7.01	32.09	46.00	-13.91	peak	
2		354.9500	40.16	-5.88	34.28	46.00	-11.72	peak	
3		391.8100	36.65	-5.08	31.57	46.00	-14.43	peak	
4		480.0800	34.44	-2.99	31.45	46.00	-14.55	peak	
5		749.7400	33.31	2.33	35.64	46.00	-10.36	peak	
6	*	886.5100	33.88	4.33	38.21	46.00	-7.79	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L)

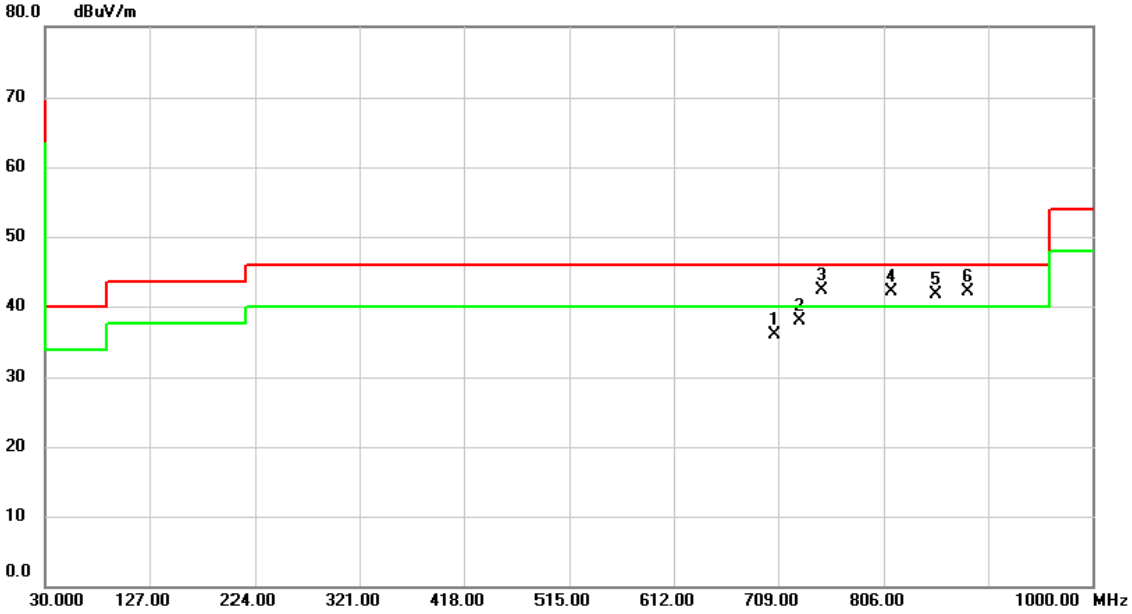
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		280.2600	37.00	-7.93	29.07	46.00	-16.93	peak	
2		391.8100	38.23	-5.08	33.15	46.00	-12.85	peak	
3		448.0700	34.31	-3.56	30.75	46.00	-15.25	peak	
4		500.4500	37.18	-2.64	34.54	46.00	-11.46	peak	
5	*	749.7400	32.49	2.33	34.82	46.00	-11.18	peak	
6		839.9500	30.26	3.45	33.71	46.00	-12.29	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S)

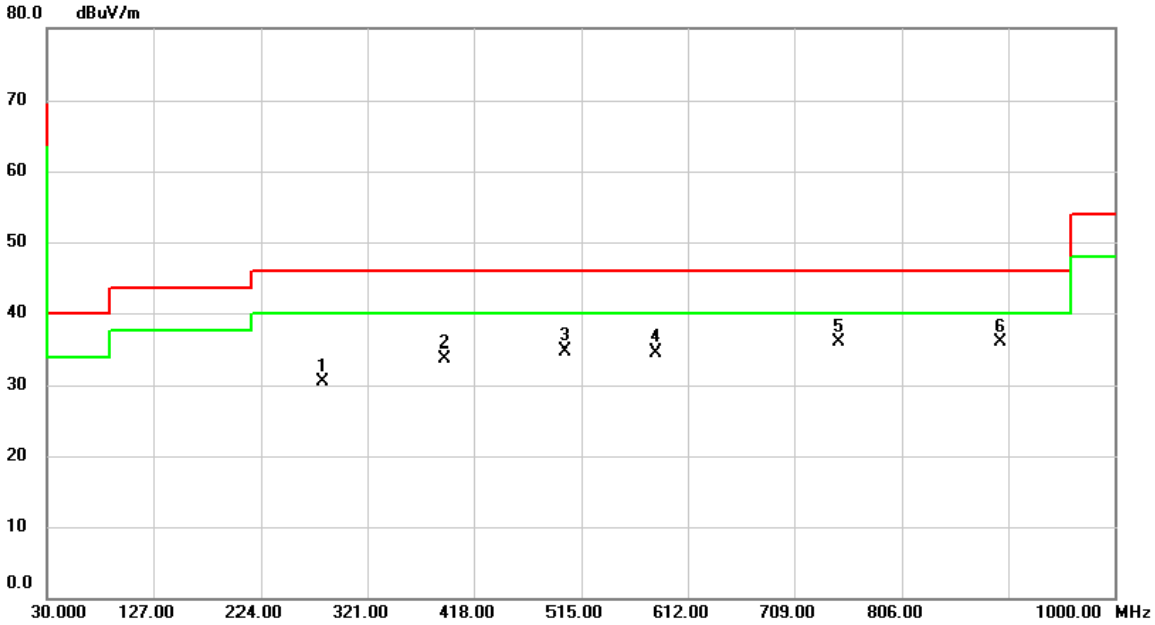
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		706.0900	34.43	1.42	35.85	46.00	-10.15	peak	
2		729.3700	36.07	1.91	37.98	46.00	-8.02	peak	
3	*	749.7400	40.06	2.33	42.39	46.00	-3.61	peak	
4	!	812.7900	39.10	3.06	42.16	46.00	-3.84	peak	
5	!	854.5000	38.10	3.68	41.78	46.00	-4.22	peak	
6	!	884.5700	37.74	4.29	42.03	46.00	-3.97	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S)

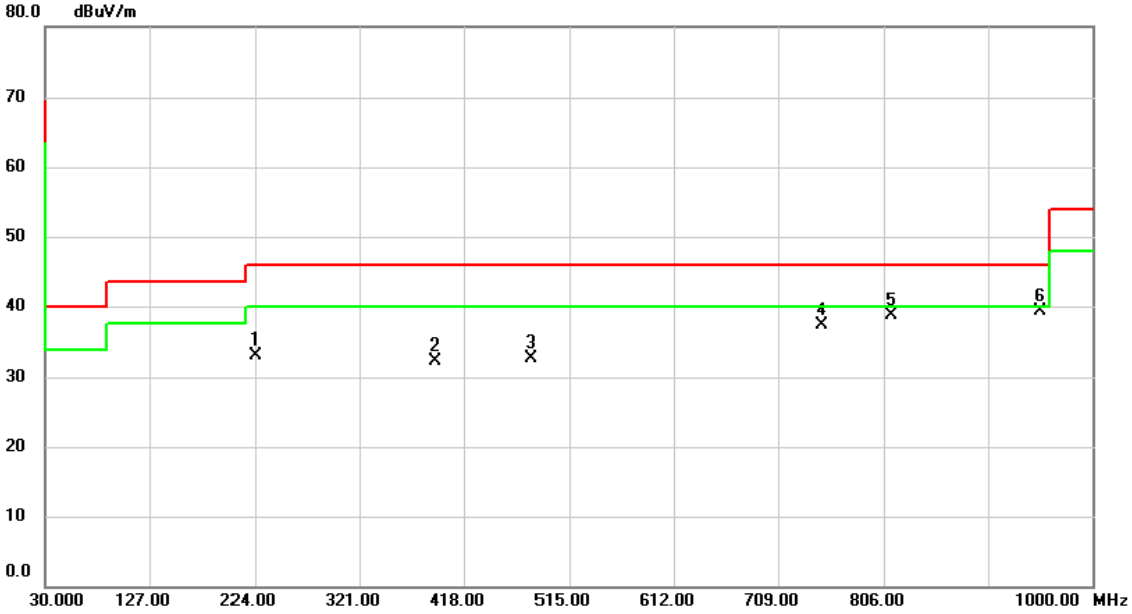
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		280.2600	38.49	-7.93	30.56	46.00	-15.44	peak	
2		391.8100	38.88	-5.08	33.80	46.00	-12.20	peak	
3		500.4500	37.29	-2.64	34.65	46.00	-11.35	peak	
4		582.9000	35.09	-0.67	34.42	46.00	-11.58	peak	
5		749.7400	33.65	2.33	35.98	46.00	-10.02	peak	
6	*	896.2100	31.47	4.53	36.00	46.00	-10.00	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

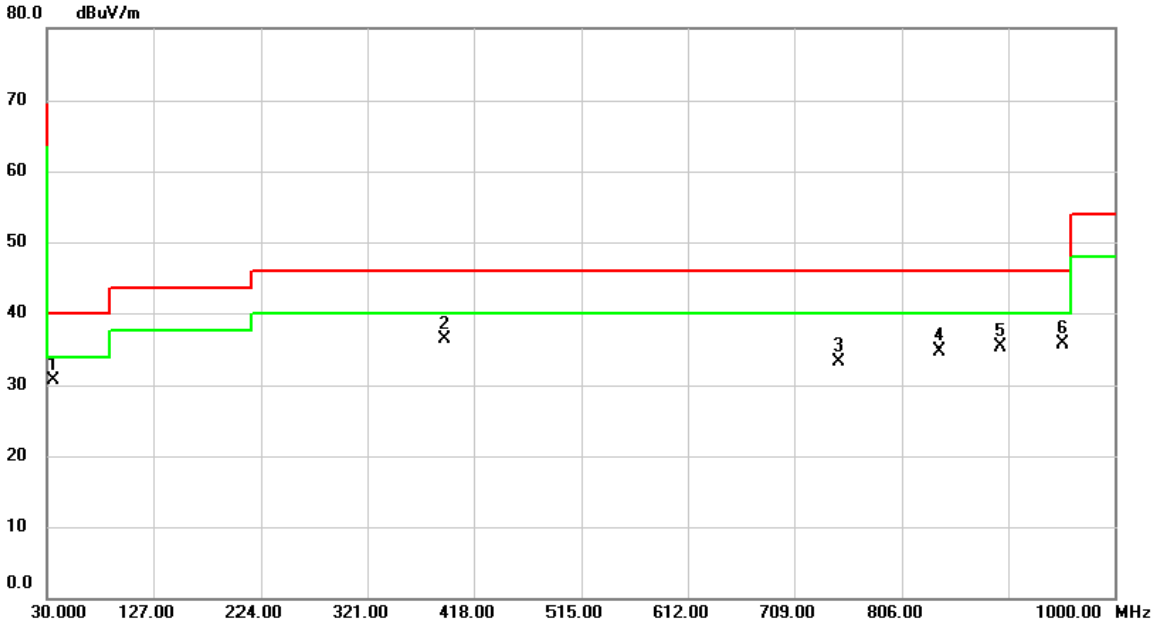
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		224.0000	43.66	-10.58	33.08	46.00	-12.92	peak	
2		391.8100	37.36	-5.08	32.28	46.00	-13.72	peak	
3		480.0800	35.78	-2.99	32.79	46.00	-13.21	peak	
4		749.7400	34.89	2.33	37.22	46.00	-8.78	peak	
5		812.7900	35.62	3.06	38.68	46.00	-7.32	peak	
6	*	951.5000	33.71	5.51	39.22	46.00	-6.78	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110L+Adapter)

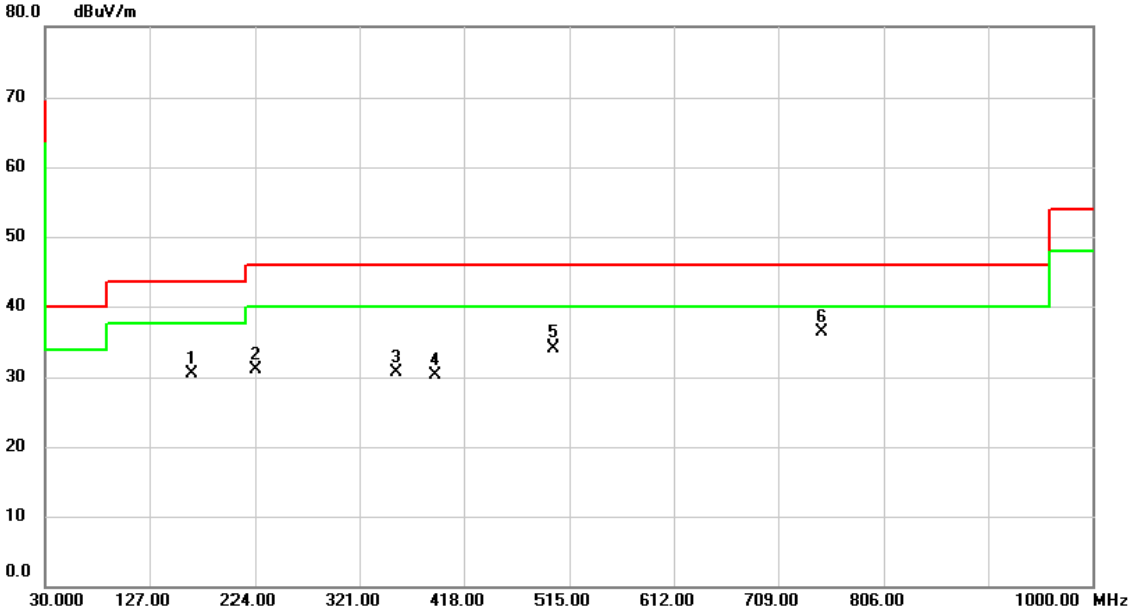
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	35.8200	39.64	-8.92	30.72	40.00	-9.28	peak	
2		391.8100	41.46	-5.08	36.38	46.00	-9.62	peak	
3		749.7400	31.03	2.33	33.36	46.00	-12.64	peak	
4		839.9500	31.27	3.45	34.72	46.00	-11.28	peak	
5		896.2100	30.69	4.53	35.22	46.00	-10.78	peak	
6		952.4700	30.23	5.52	35.75	46.00	-10.25	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

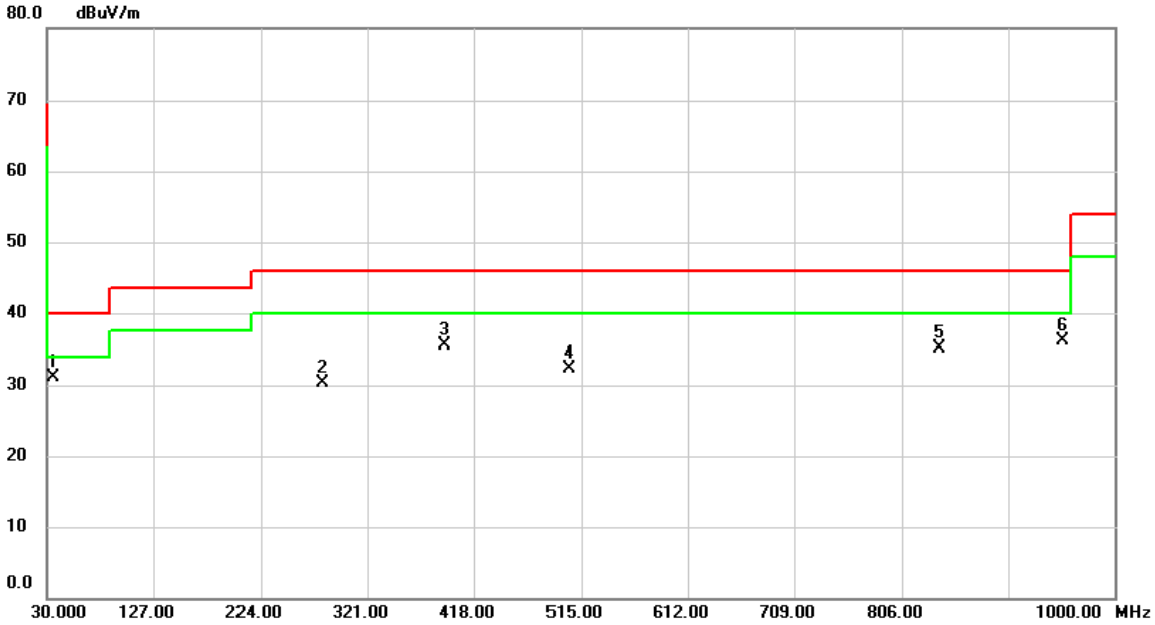
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		166.7700	39.24	-8.77	30.47	43.50	-13.03	peak	
2		224.0000	41.64	-10.58	31.06	46.00	-14.94	peak	
3		354.9500	36.62	-5.88	30.74	46.00	-15.26	peak	
4		391.8100	35.38	-5.08	30.30	46.00	-15.70	peak	
5		500.4500	36.70	-2.64	34.06	46.00	-11.94	peak	
6	*	749.7400	34.00	2.33	36.33	46.00	-9.67	peak	

Test Mode:	TX Mode_Stand-alone (Battery_DLT-M8110S+Adapter)

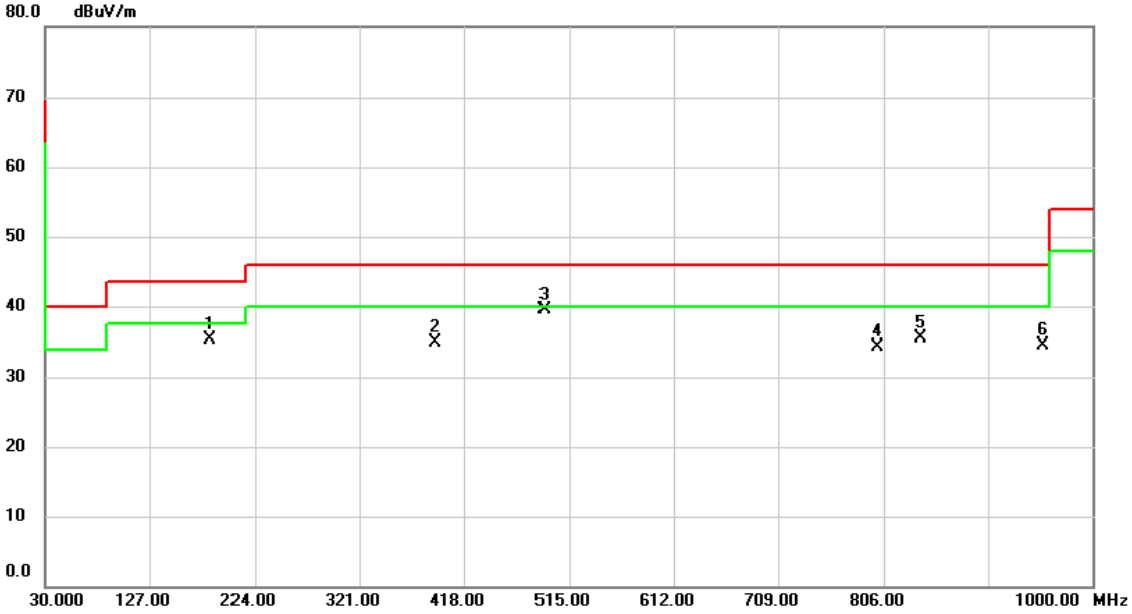
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	35.8200	40.06	-8.92	31.14	40.00	-8.86	peak	
2		280.2600	38.25	-7.93	30.32	46.00	-15.68	peak	
3		391.8100	40.56	-5.08	35.48	46.00	-10.52	peak	
4		504.3300	34.92	-2.55	32.37	46.00	-13.63	peak	
5		839.9500	31.72	3.45	35.17	46.00	-10.83	peak	
6		952.4700	30.63	5.52	36.15	46.00	-9.85	peak	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

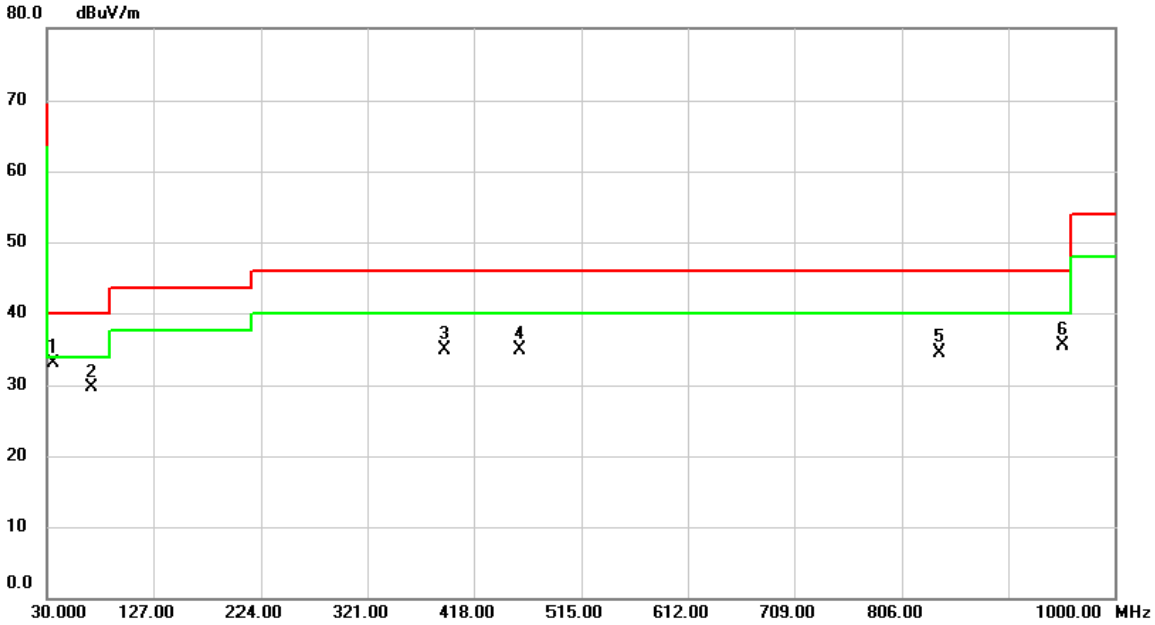
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		183.2600	45.32	-10.11	35.21	43.50	-8.29	peak	
2		391.8100	40.00	-5.08	34.92	46.00	-11.08	peak	
3	*	492.6900	42.20	-2.78	39.42	46.00	-6.58	peak	
4		800.1800	31.40	2.88	34.28	46.00	-11.72	peak	
5		839.9500	32.06	3.45	35.51	46.00	-10.49	peak	
6		953.4400	28.93	5.53	34.46	46.00	-11.54	peak	

Test Mode:	TX Mode_With DLT-M8110 Desk Docking (Battery_DLT-M8110L)

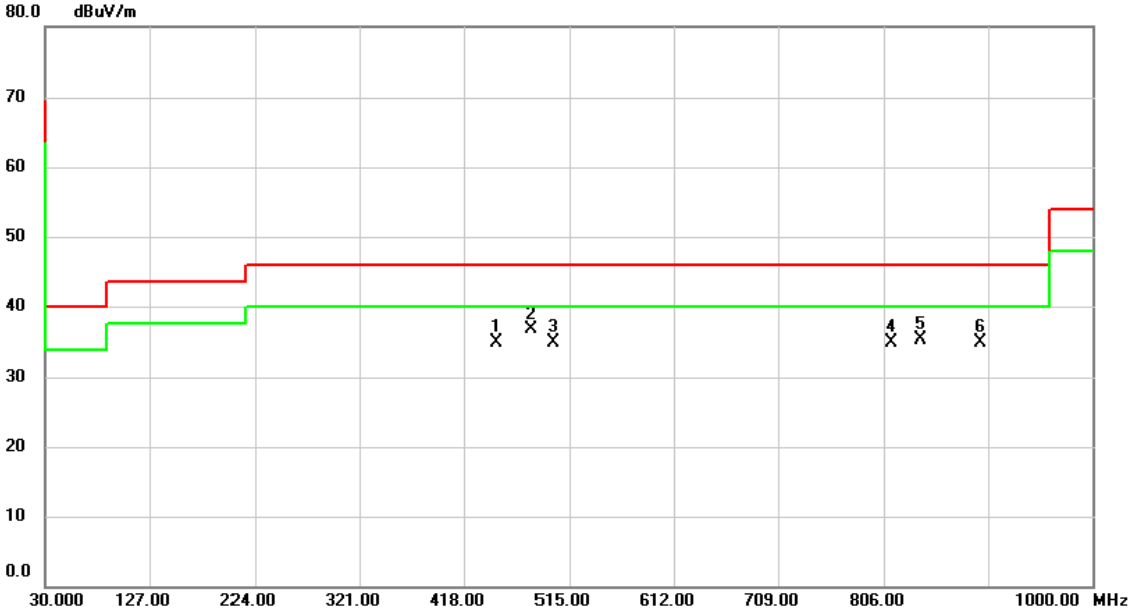
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	35.8200	42.06	-8.92	33.14	40.00	-6.86	peak	
2		70.7400	40.25	-10.63	29.62	40.00	-10.38	peak	
3		391.8100	40.05	-5.08	34.97	46.00	-11.03	peak	
4		459.7100	38.21	-3.33	34.88	46.00	-11.12	peak	
5		839.9500	31.13	3.45	34.58	46.00	-11.42	peak	
6		952.4700	29.97	5.52	35.49	46.00	-10.51	peak	

Test Mode:	TX Mode_With DLT-M8110 Vehicle Docking (Battery_DLT-M8110L)

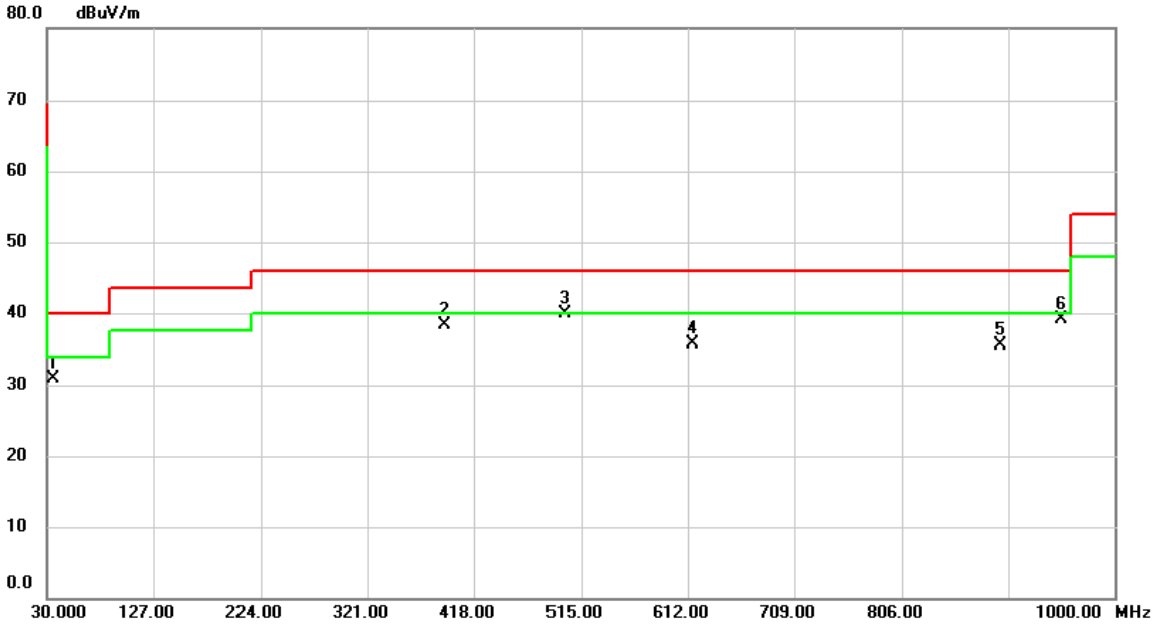
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		448.0700	38.43	-3.56	34.87	46.00	-11.13	peak	
2	*	480.0800	39.75	-2.99	36.76	46.00	-9.24	peak	
3		500.4500	37.62	-2.64	34.98	46.00	-11.02	peak	
4		812.7900	31.80	3.06	34.86	46.00	-11.14	peak	
5		839.9500	31.78	3.45	35.23	46.00	-10.77	peak	
6		896.2100	30.33	4.53	34.86	46.00	-11.14	peak	

Test Mode:	TX Mode_With DLT-M8110 Vehicle Docking (Battery_DLT-M8110L)

Horizontal

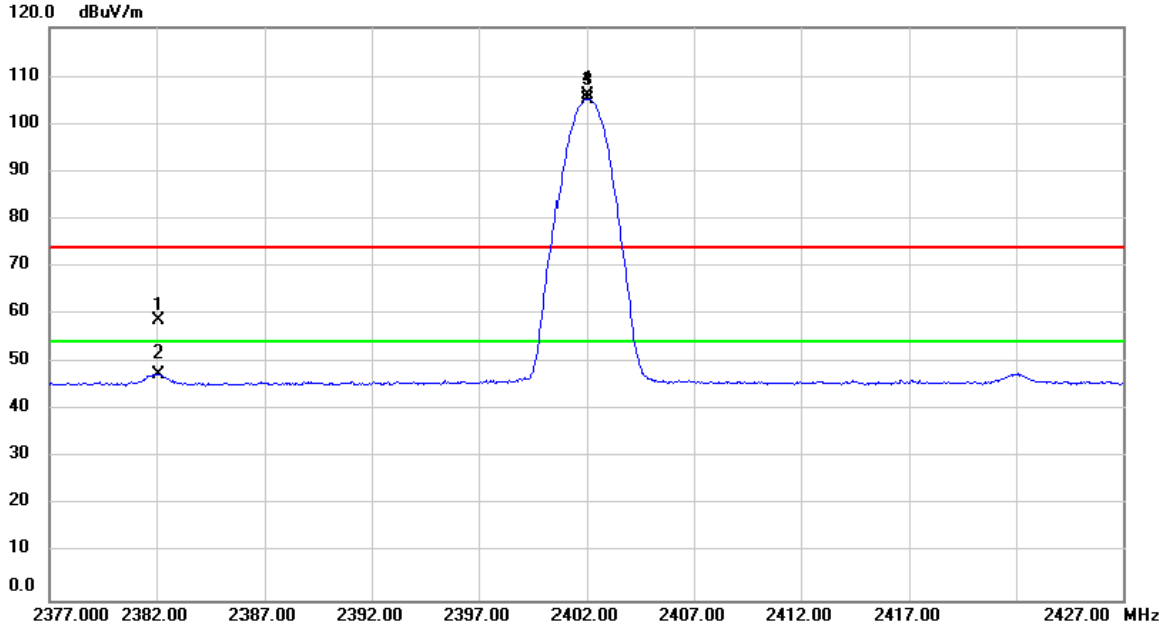


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		35.8200	39.78	-8.92	30.86	40.00	-9.14	peak	
2		391.8100	43.31	-5.08	38.23	46.00	-7.77	peak	
3	*	500.4500	42.62	-2.64	39.98	46.00	-6.02	peak	
4		615.8800	35.77	-0.10	35.67	46.00	-10.33	peak	
5		896.2100	31.02	4.53	35.55	46.00	-10.45	peak	
6		951.5000	33.53	5.51	39.04	46.00	-6.96	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

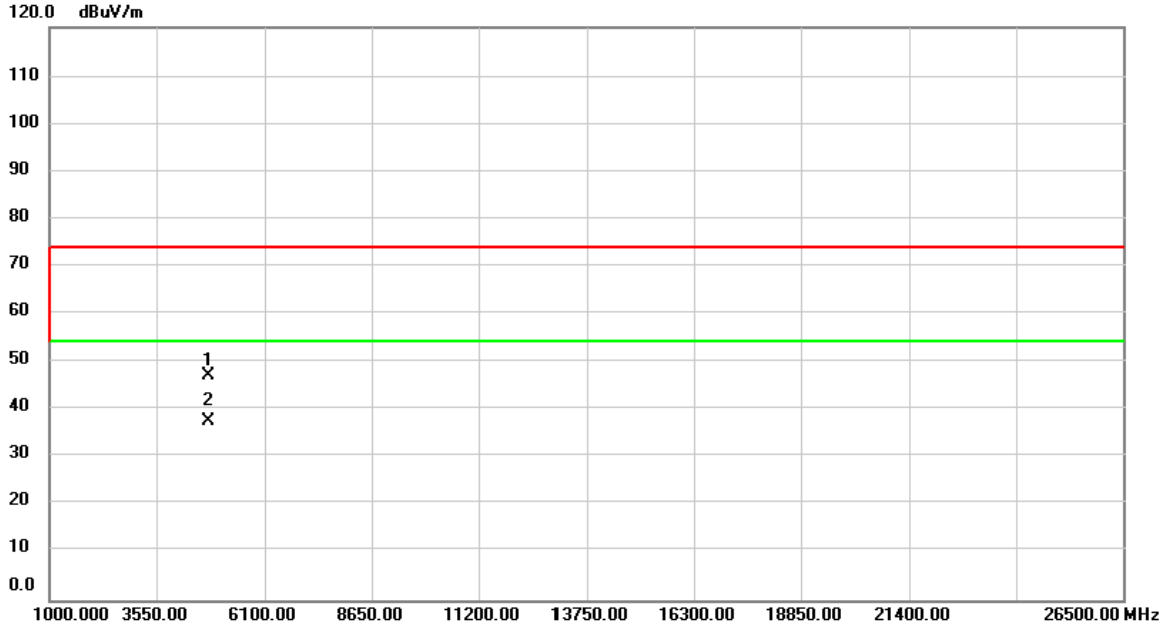
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2382.100	27.05	31.68	58.73	74.00	-15.27	peak	
2		2382.100	15.99	31.68	47.67	54.00	-6.33	AVG	
3	X	2402.000	74.21	31.76	105.97	74.00	31.97	peak	No Limit
4	*	2402.000	73.52	31.76	105.28	54.00	51.28	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

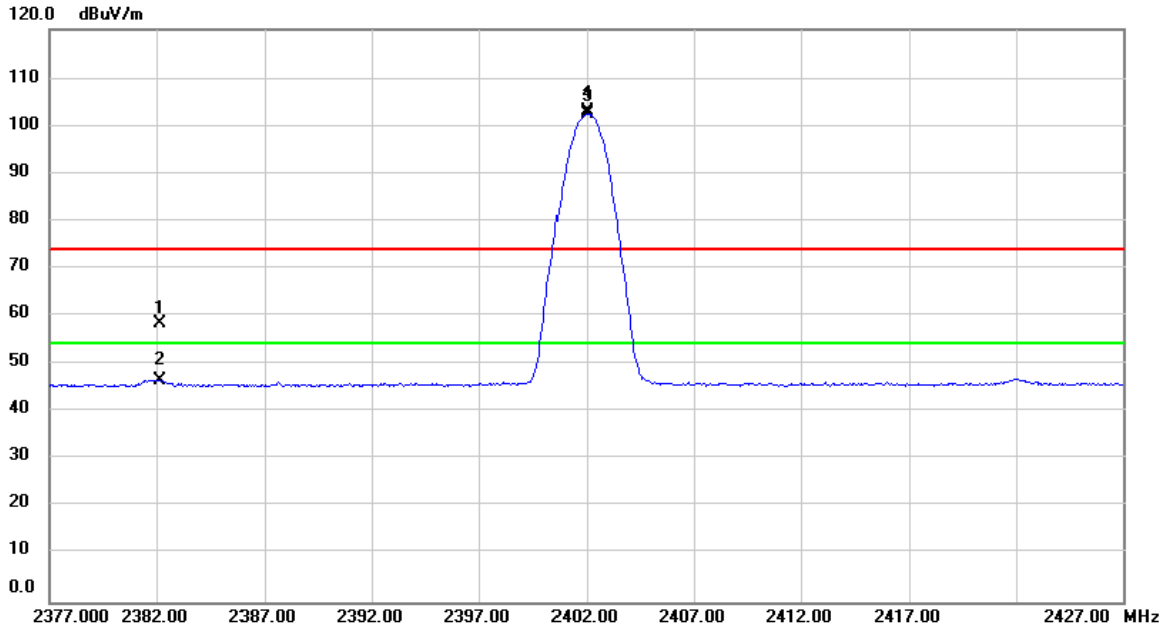
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	57.86	-10.51	47.35	74.00	-26.65	peak	
2	*	4804.000	48.13	-10.51	37.62	54.00	-16.38	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

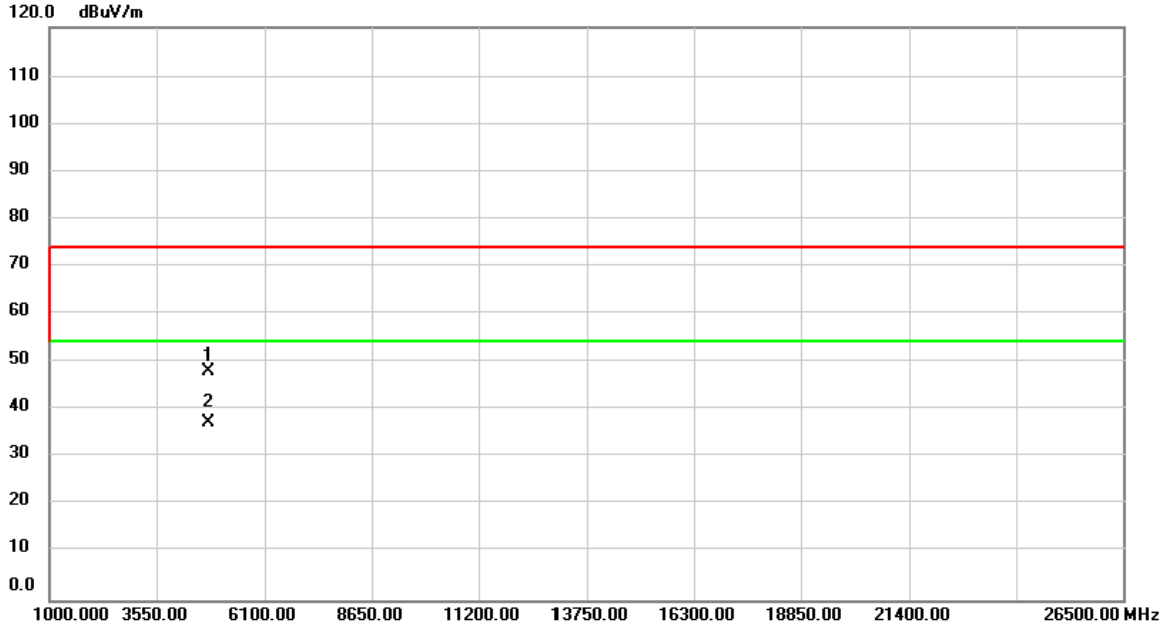
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2382.150	26.82	31.68	58.50	74.00	-15.50	peak	
2		2382.150	15.09	31.68	46.77	54.00	-7.23	AVG	
3	X	2402.000	71.41	31.76	103.17	74.00	29.17	peak	No Limit
4	*	2402.000	70.71	31.76	102.47	54.00	48.47	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2402MHz _CH00_1Mbps

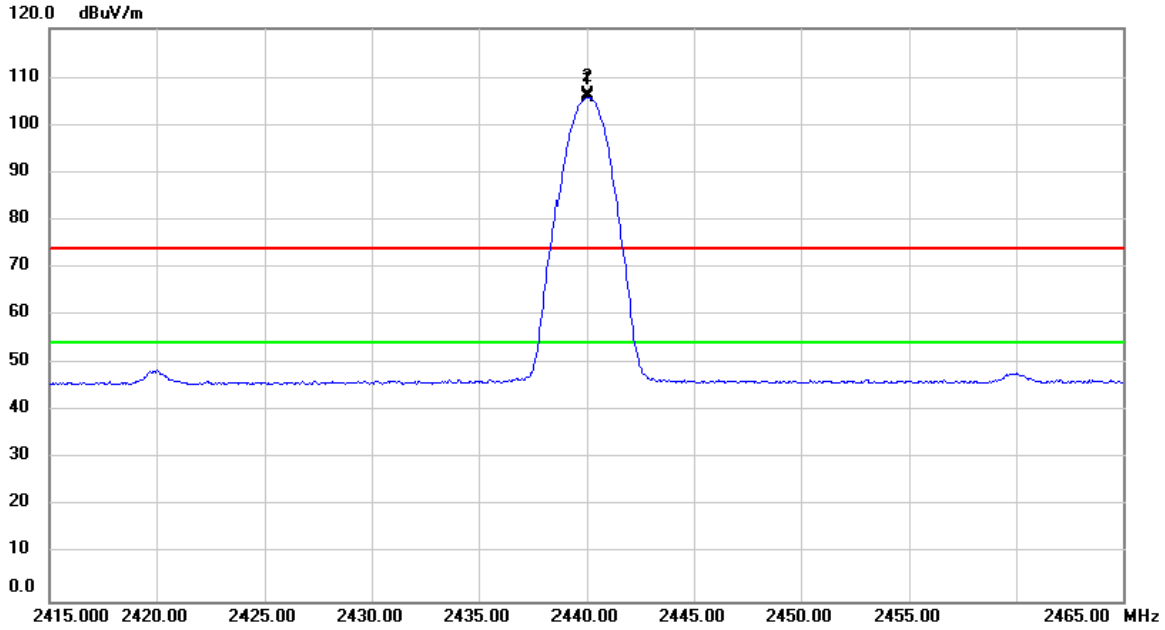
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	58.76	-10.51	48.25	74.00	-25.75	peak	
2	*	4804.000	47.78	-10.51	37.27	54.00	-16.73	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2440MHz _CH19_1Mbps

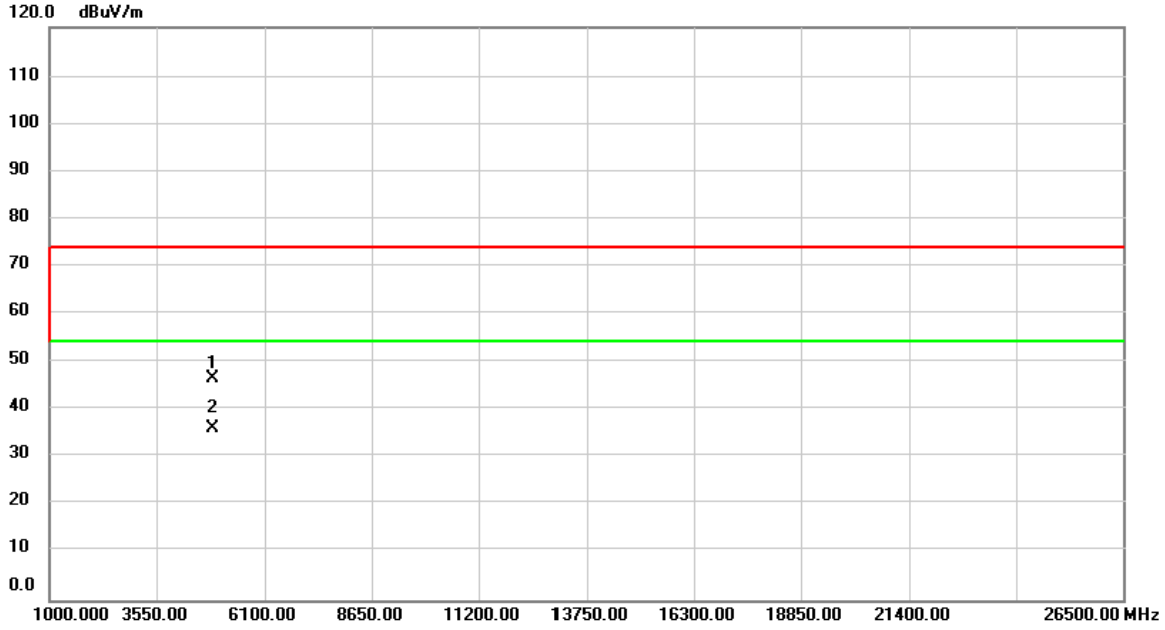
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2440.000	74.54	31.90	106.44	74.00	32.44	peak	No Limit
2	*	2440.000	73.85	31.90	105.75	54.00	51.75	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2440MHz _CH19_1Mbps

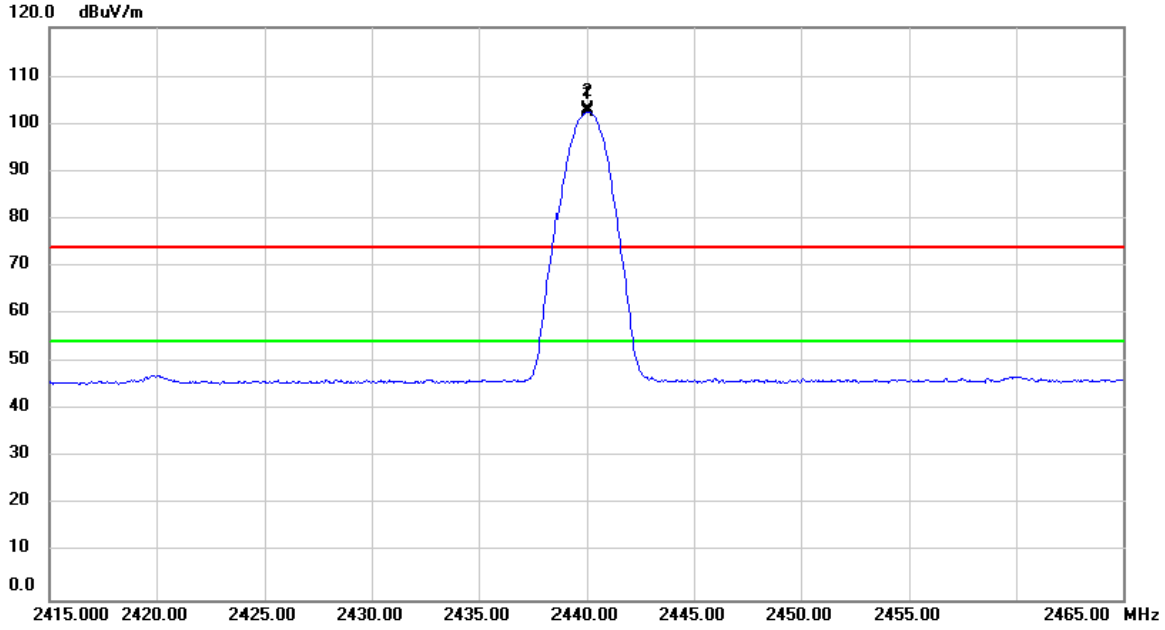
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	56.93	-10.39	46.54	74.00	-27.46	peak	
2	*	4880.000	46.58	-10.39	36.19	54.00	-17.81	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2440MHz _CH19_1Mbps

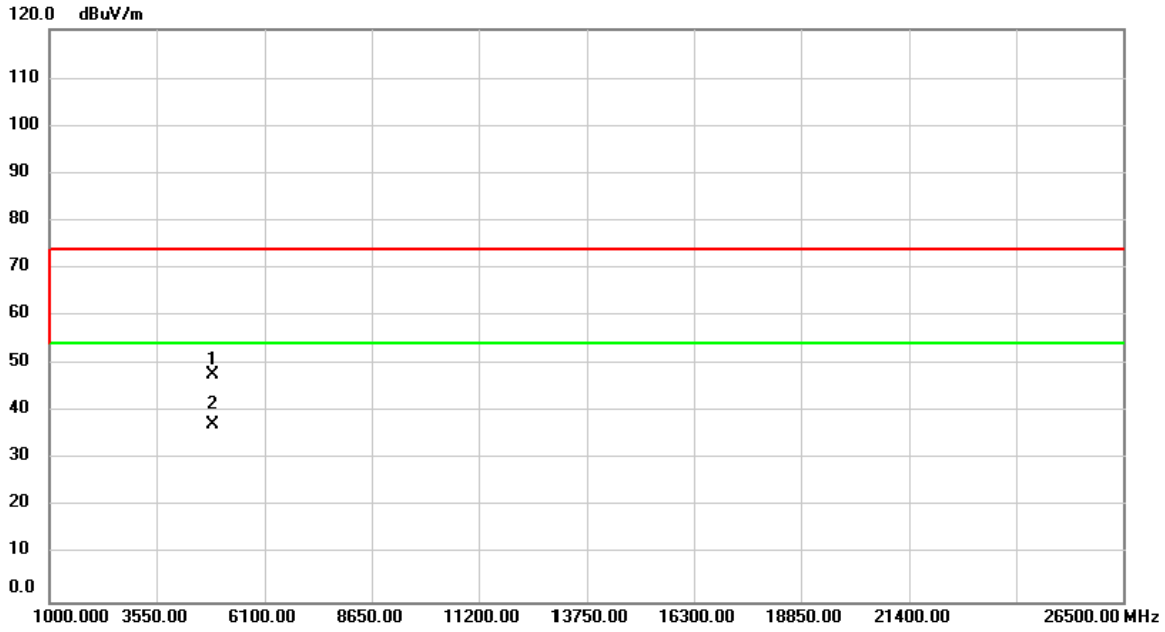
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2440.000	71.29	31.90	103.19	74.00	29.19	peak	No Limit
2	*	2440.000	70.59	31.90	102.49	54.00	48.49	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX 2440MHz _CH19_1Mbps

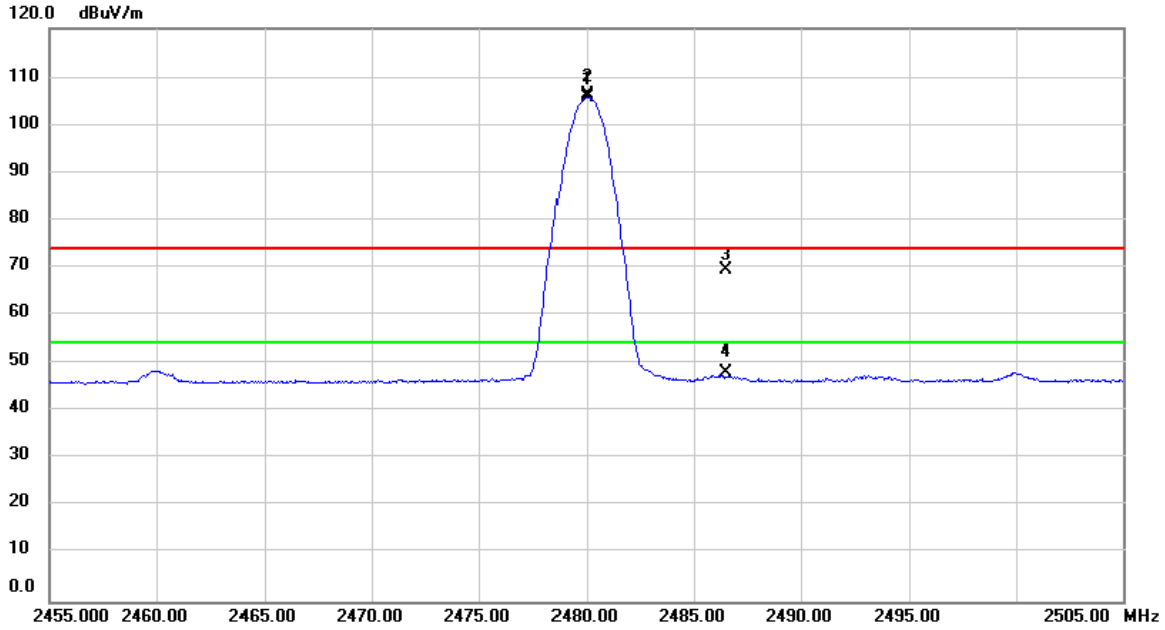
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	58.25	-10.39	47.86	74.00	-26.14	peak	
2	*	4880.000	47.61	-10.39	37.22	54.00	-16.78	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

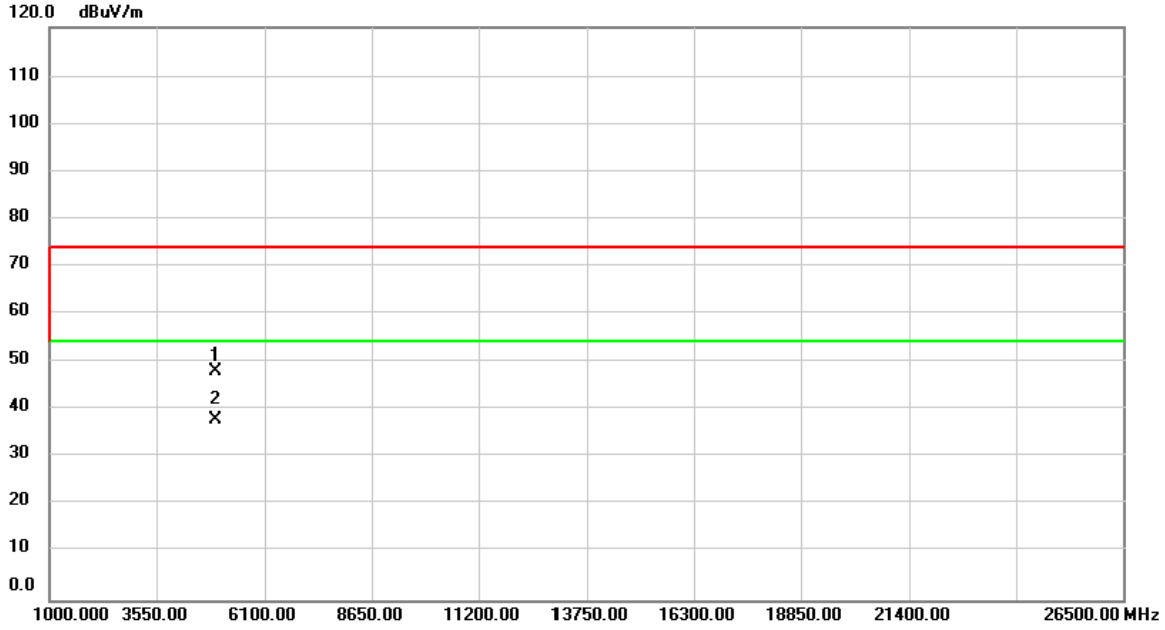
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2480.000	74.45	32.05	106.50	74.00	32.50	peak	No Limit
2	*	2480.000	73.75	32.05	105.80	54.00	51.80	AVG	No Limit
3		2486.519	37.50	32.08	69.58	74.00	-4.42	peak	
4		2486.519	16.05	32.08	48.13	54.00	-5.87	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

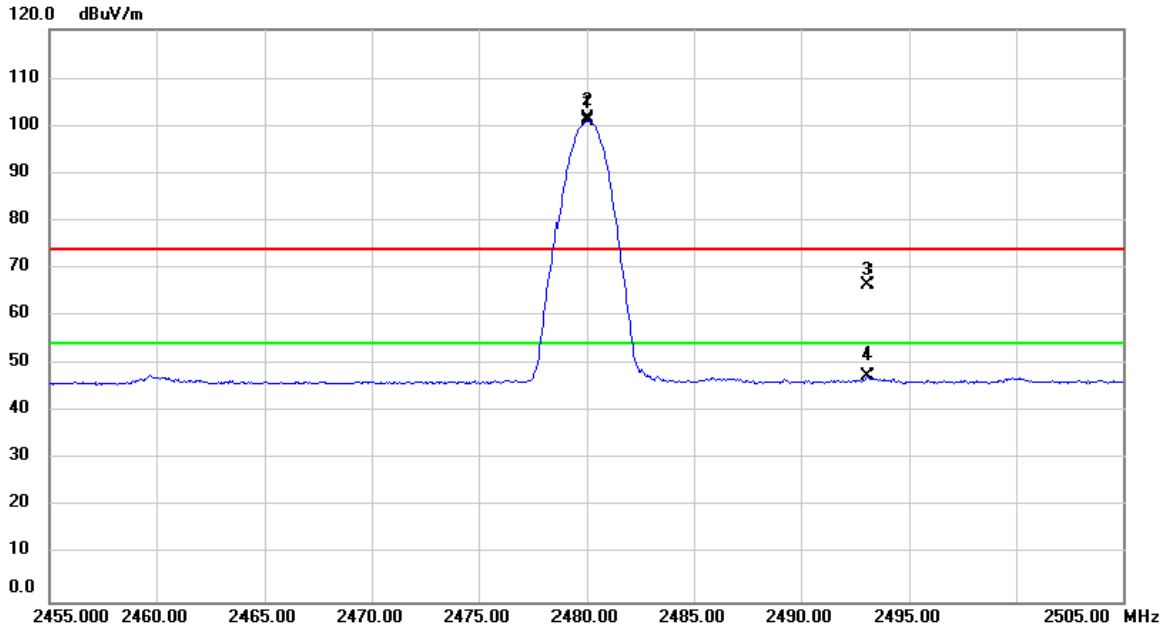
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	58.53	-10.26	48.27	74.00	-25.73	peak	
2	*	4960.000	48.34	-10.26	38.08	54.00	-15.92	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

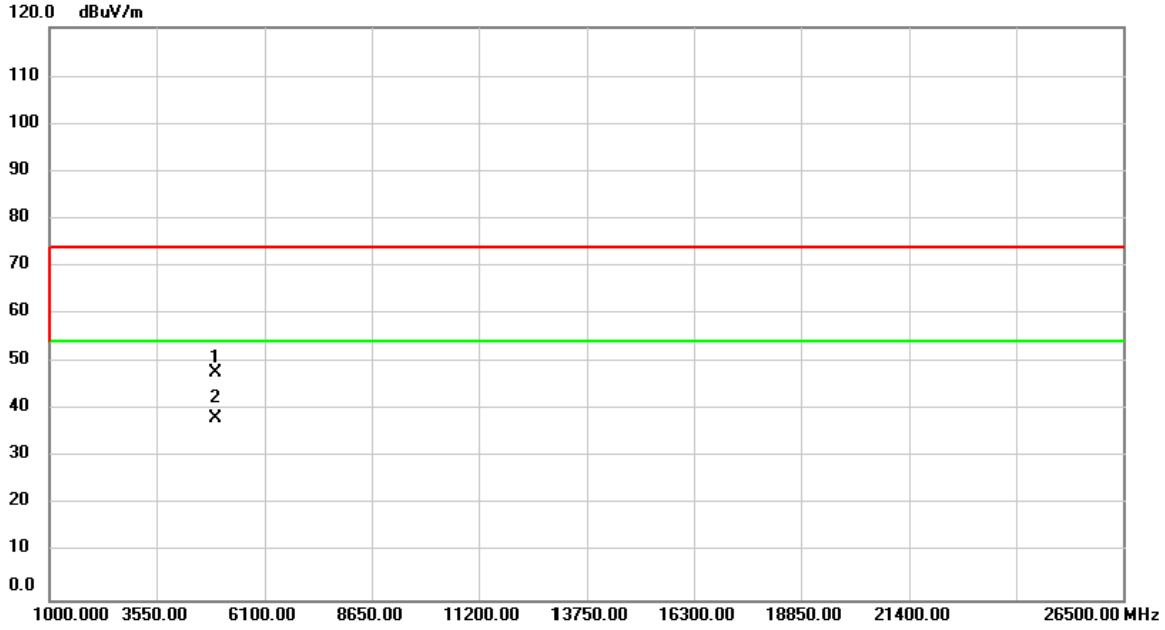
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2480.000	69.62	32.05	101.67	74.00	27.67	peak	No Limit
2	*	2480.000	68.93	32.05	100.98	54.00	46.98	AVG	No Limit
3		2493.100	34.45	32.10	66.55	74.00	-7.45	peak	
4		2493.100	15.33	32.10	47.43	54.00	-6.57	AVG	

Orthogonal Axis :	X
Test Mode :	TX 2480MHz _CH39_1Mbps

Horizontal



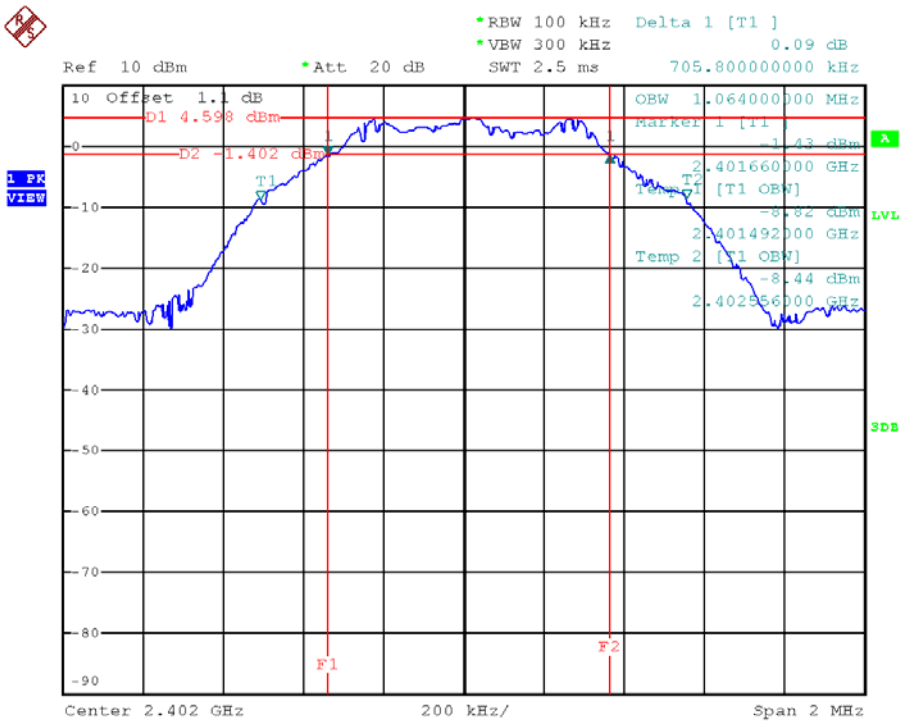
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	58.11	-10.26	47.85	74.00	-26.15	peak	
2	*	4960.000	48.39	-10.26	38.13	54.00	-15.87	AVG	

ATTACHMENT E - BANDWIDTH

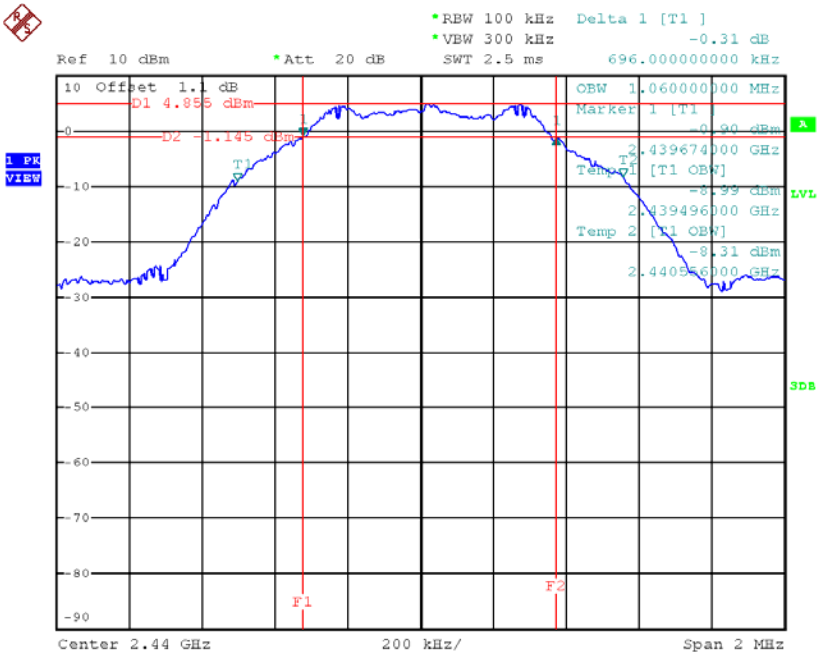
Test Mode :	CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.71	1.04	500	Complies
2440	0.70	1.04	500	Complies
2480	0.70	1.04	500	Complies

TX CH00

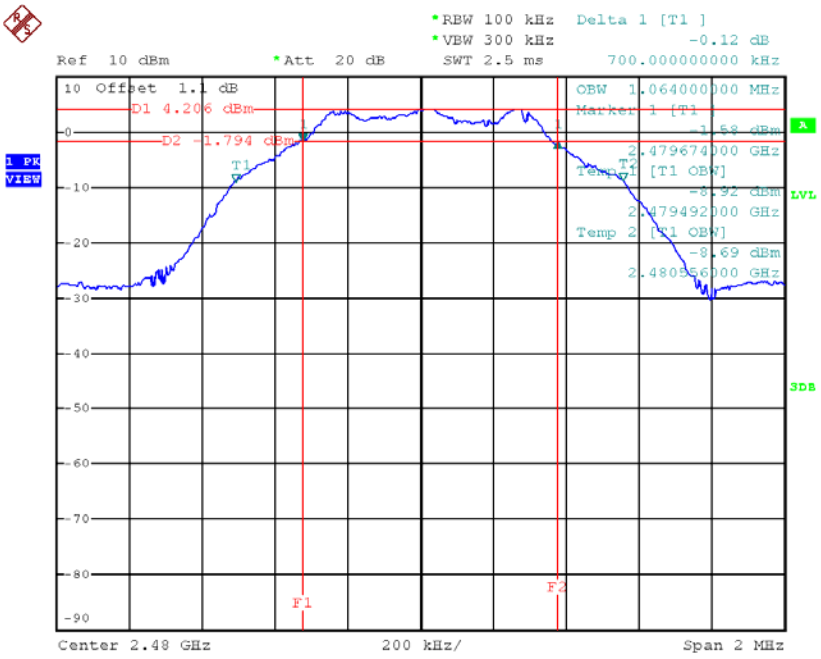


TX CH19



Date: 17.JUN.2016 23:44:51

TX CH39



Date: 17.JUN.2016 23:42:54

ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Test Mode :	CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watt)	Max. Limit (dBm)	Max. Limit (Watt)	Test Result
2402	5.58	0.0036	30.00	1.00	Complies
2440	5.88	0.0039	30.00	1.00	Complies
2480	5.80	0.0038	30.00	1.00	Complies

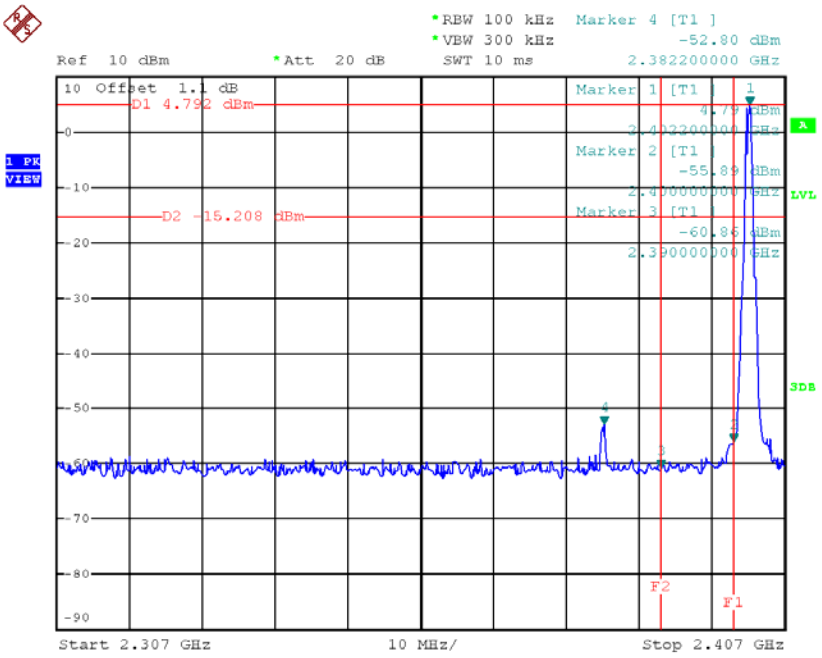
Test Mode :	CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Conducted Average Power (dBm)	Conducted Average Power (Watt)
2402	2.42	0.00175
2440	2.42	0.00175
2480	2.34	0.00171

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

Test Mode :	CH00, CH19 , CH39 - 1Mbps

CH00 (Lower) - 1Mbps



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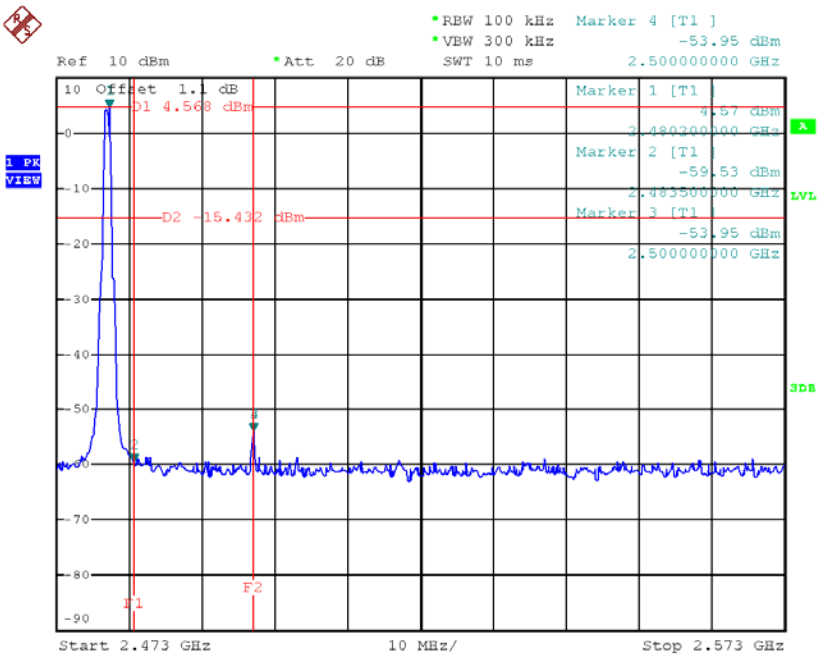
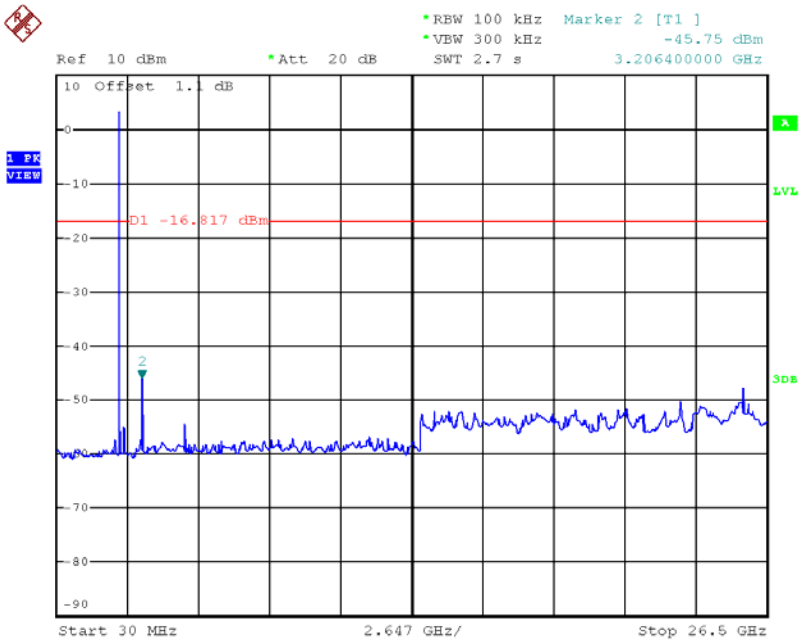
CH39 (upper) - 1Mbps



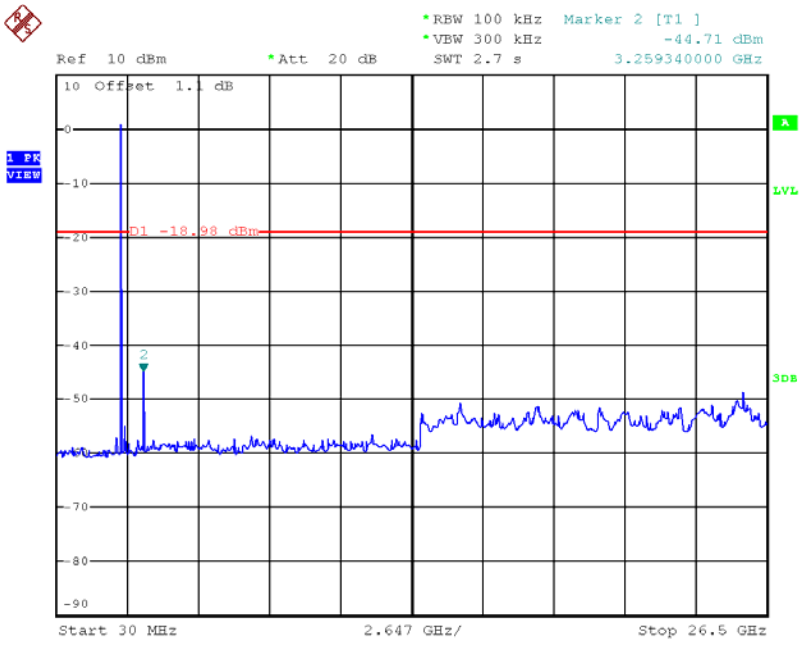
Date: 17.JUN.2016 23:43:02

CH00 (10 Harmonic of the frequency)



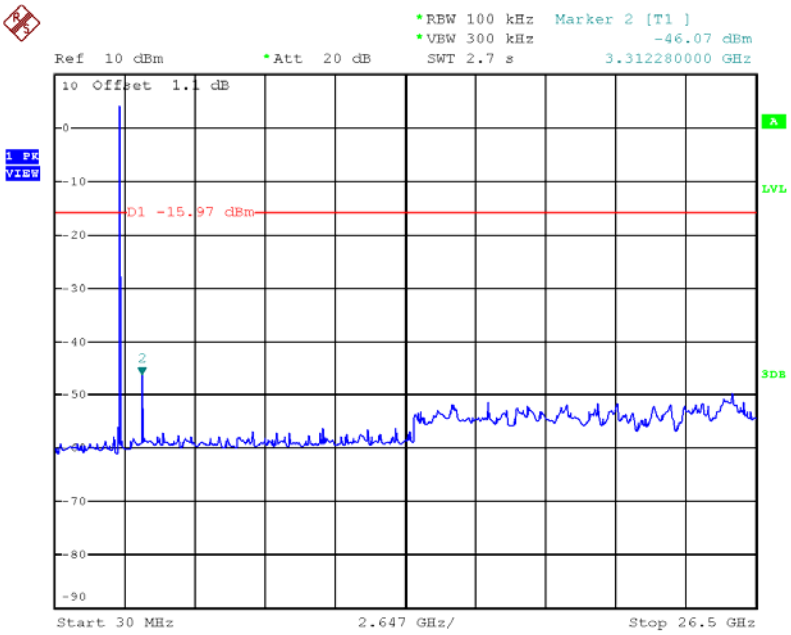
Date: 17.JUN.2016 23:41:06

CH19 (10 Harmonic of the frequency)



Date: 17.JUN.2016 23:45:04

CH39 (10 Harmonic of the frequency)



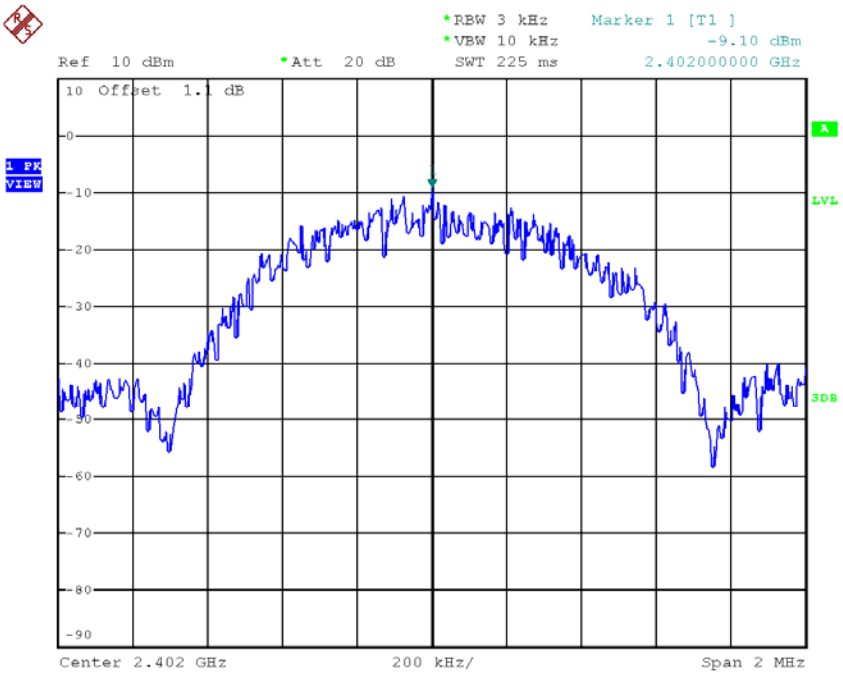
Date: 17.JUN.2016 23:43:15

ATTACHMENT H - POWER SPECTRAL DENSITY TEST

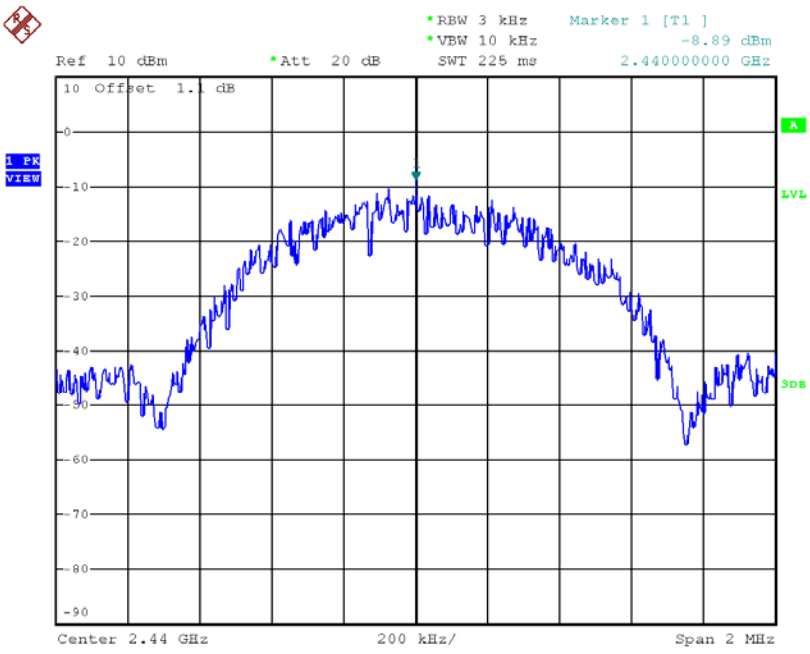
Test Mode :	CH00, CH19 , CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	-9.10	8	Complies
2440	-8.89	8	Complies
2480	-9.05	8	Complies

TX CH00

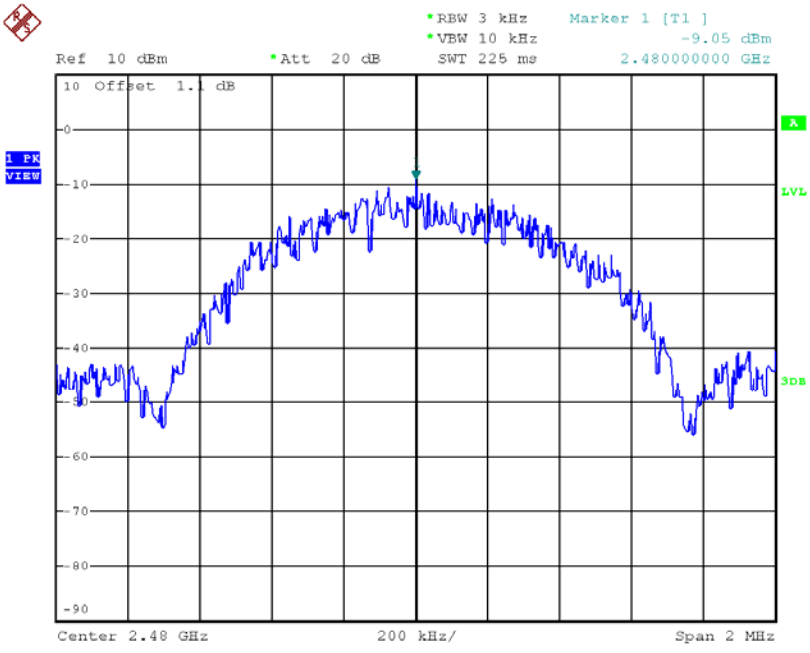


TX CH19



Date: 17.JUN.2016 23:45:10

TX CH39



Date: 17.JUN.2016 23:43:21