

FCC Part 15C Measurement and Test Report

For

TOPICON HK LIMITED

Room 2113-2114, Tower C, Huangdu Plaza, Yitian Road, Futian District,

Shenzhen, China

FCC ID: 2AHAF-MDT

FCC Rule(s): FCC Part 15.225

Product Description: GPS

Tested Model: MDT750

Report No.: STR18048256I-5

Sample Receipt Date: 2018-04-25

Tested Date: 2018-04-26 to 2018-07-31

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Tested By: Jason Su / Engineer

Reviewed By: Suan Su / Engineer

Approved & Authorized By: Jandy so / PSQ Manager

Prepared By:

Jason Su
Suan Su
Jandyso

Shenzhen SEM Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,

Bao'an District, Shenzhen, P.R.C. (518101)

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: TOPICON HK LIMITED
Address of applicant: Room 2113-2114, Tower C, Huangdu Plaza, Yitian Road,
Futian District, Shenzhen, China

Manufacturer: TOPICON HK LIMITED
Address of manufacturer: Room 2113-2114, Tower C, Huangdu Plaza, Yitian Road,
Futian District, Shenzhen, China

General Description of EUT	
Product Name:	GPS
Trade Name:	/
Model No.:	MDT750
Adding Model(s):	MDT740, MDT730, MDT720, MDT721, MDT701, MDT702, MDT703, MDT713D, M700, M700A, M700AG, M700AB, M700B, M700AKB, M700C, OBC720, MDT840, MDT850
Rated Voltage:	DC 3.7V by Battery
Battery Capacity:	4300 mAh
Power Adapter Model:	/
<i>The EUT Main board support GSM850/PCS1900, WCDMA Band 2/5 function. It is intended for Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850/PCS1900, GPS, NFC, Bluetooth and Wi-Fi functions. For more information see the following datasheet.</i>	
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The screen size of others models listed in the report is different from main-test model MDT750, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	NFC
Frequency Range:	13.56MHz
Max. Field Strength:	MDT750: 78.70dBuV/m (at 3m) MDT850: 78.70dBuV/m (at 3m)
Antenna Type:	Integral Antenna
Antenna Gain:	2.0dBi
Lowest Internal Frequency of EUT:	32.768kHz

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.225: Operation within the band 13.110-14.010 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Transmitting	13.56MHz

Test Conditions	
Temperature:	20 °C
Relative humidity	53 %.
ATM Pressure:	1019 mbar

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.0	Shielded	Without Core
Camera Cable	0.4	Unshielded	Without Core
Power supply cable	1.1	Unshielded	Without Core

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Frequency Deviation	2.3%	± 5%
Conducted Emissions	Conducted	9-150kHz ± 3.74dB
		0.15-30MHz ± 3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz ± 4.52dB
		0.2-1GHz ± 5.56dB
		1-6GHz ± 3.84dB
		6-18GHz ± 3.92dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.209	Radiated Emission	Compliant
§15.225(a)	Field Strength	Compliant
§15.225(b)(c)	Out of Band Emission	Compliant
§15.225(e)	Frequency Stability	Compliant
§ 15.207(a)	Conducted Emission	N/A*
§ 15.215(c)	Emission Bandwidth	Compliant

N/A: not applicable

Remark: The AC Line Conducted Emissions testing is exempted because the device is intended to be used vehicle and powered by on-board battery. Thus, the AC Line Conducted Emissions testing is not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Standard Applicable

According to §15.225(a), The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

According to §15.225(d) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in §15.209.

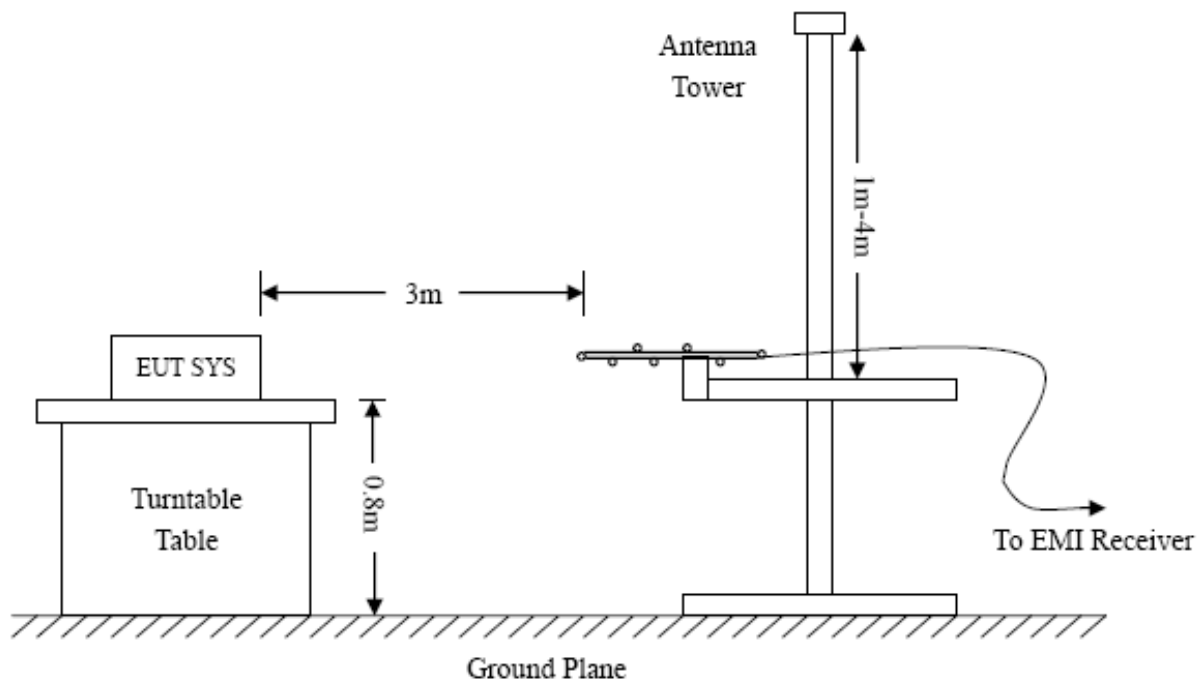
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

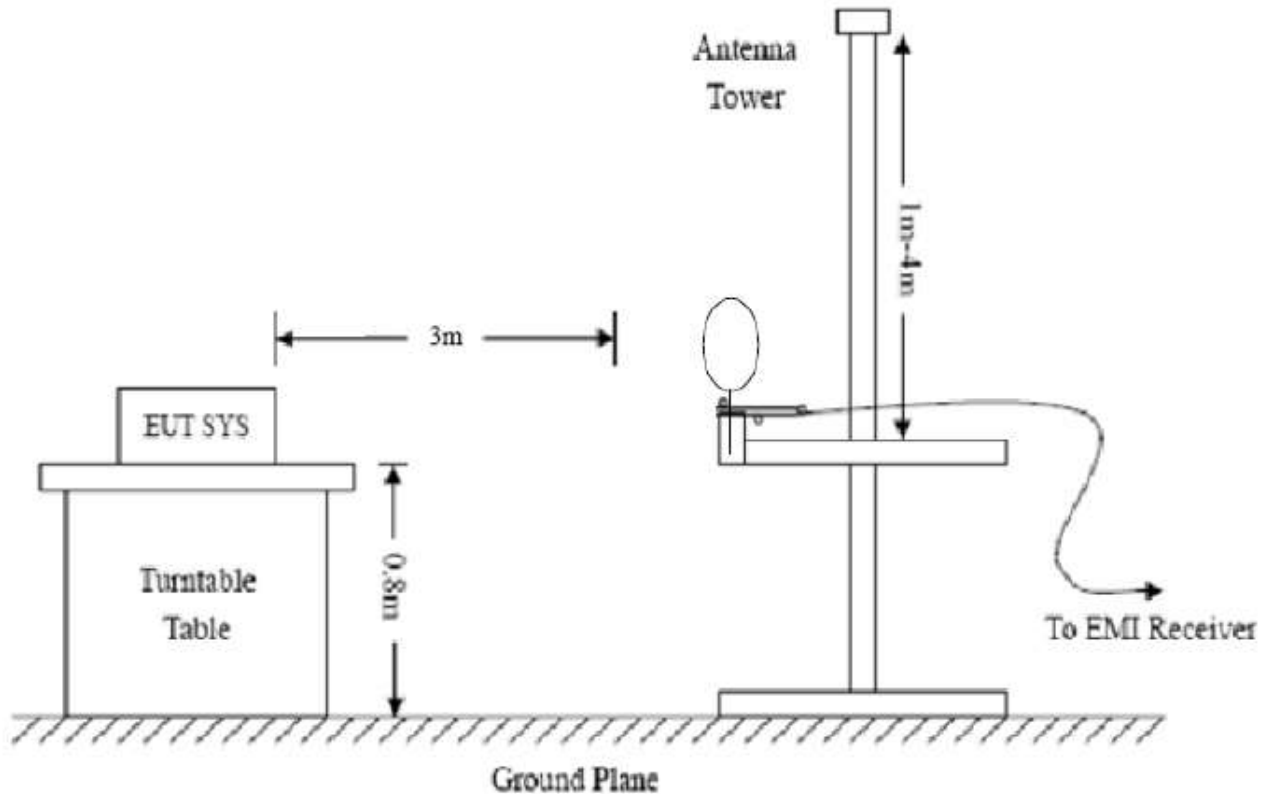
4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.225(d) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.





Frequency :9kHz-30MHz
 RBW=10KHz,
 VBW =30KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak

Frequency :30MHz-1GHz
 RBW=120KHz,
 VBW=300KHz
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, QP

Frequency :Above 1GHz
 RBW=1MHz,
 VBW=3MHz(Peak), 10Hz(AV)
 Sweep time= Auto
 Trace = max hold
 Detector function = peak, AV

4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

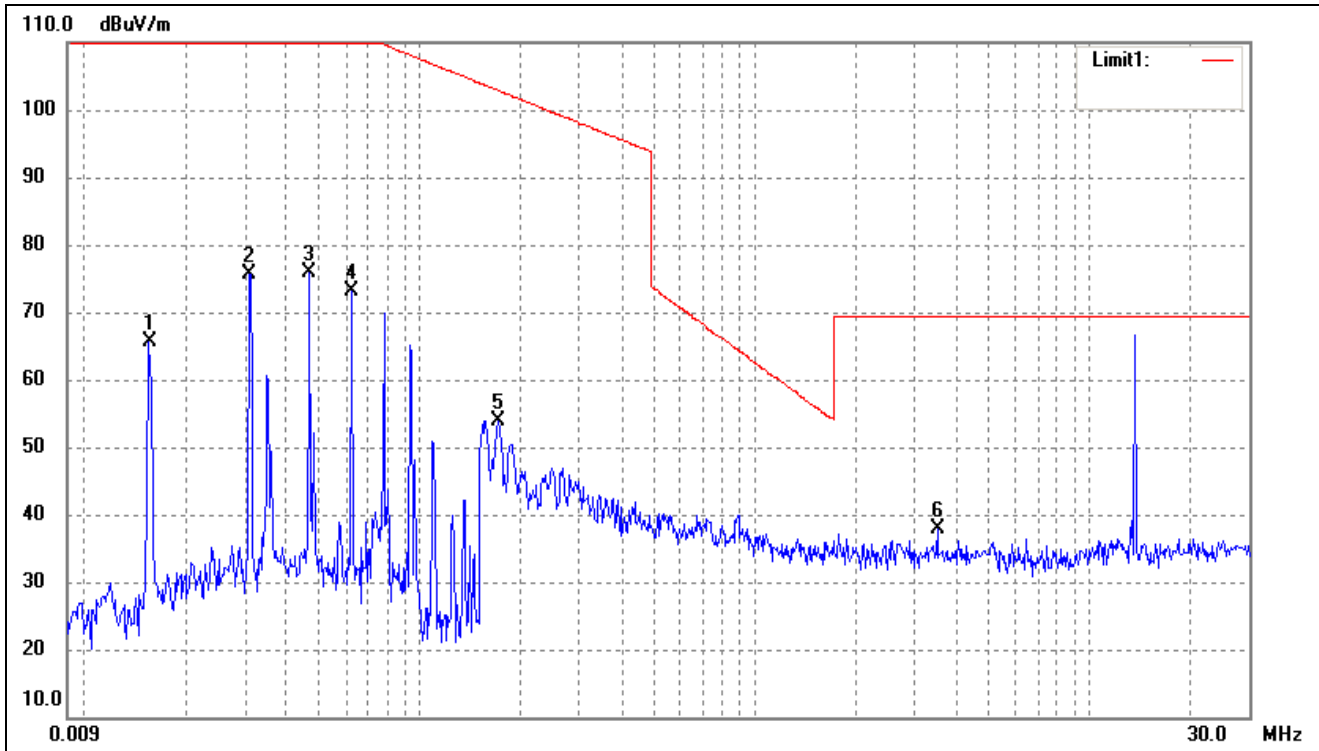
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

4.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

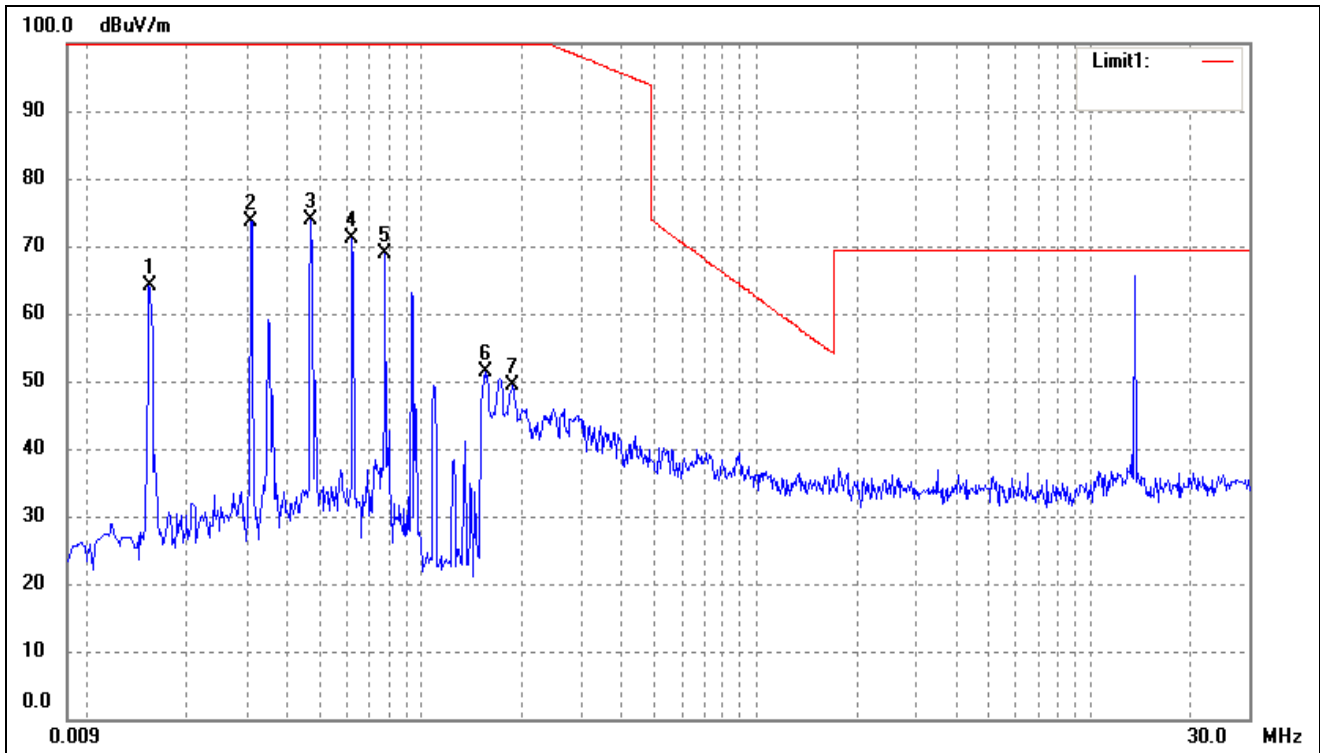
- Below 30MHz
- Model: MDT750

Test Mode	/	Polarity:	X
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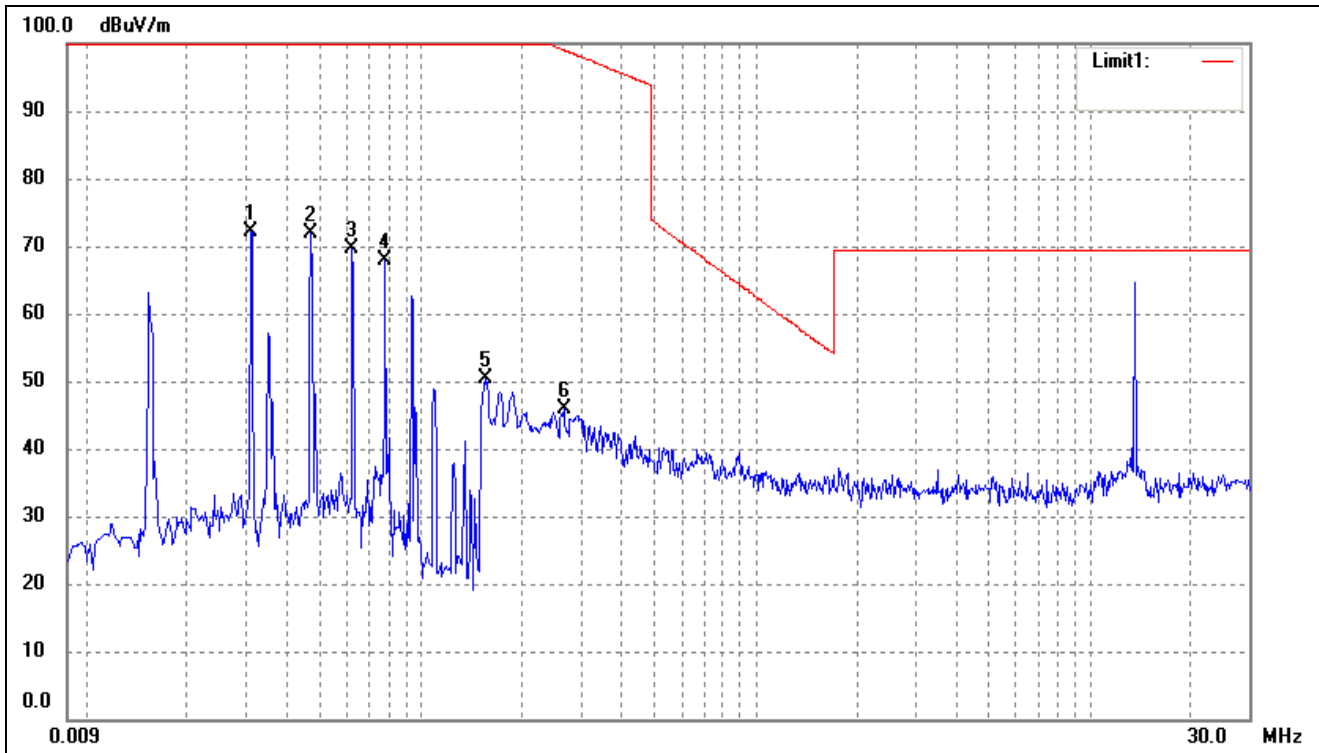
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0156	45.79	19.82	65.61	123.64	-58.03	211	100	peak
2	0.0312	55.75	19.87	75.62	117.64	-42.02	90	100	peak
3	0.0469	56.00	19.83	75.83	114.11	-38.28	201	100	peak
4	0.0625	53.31	19.79	73.10	111.63	-38.53	116	100	peak
5	0.1722	62.05	-8.09	53.96	102.85	-48.89	197	100	peak
6	3.4906	47.50	-9.70	37.80	69.50	-31.70	345	100	peak

Test Mode	/	Polarity:	Y
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0155	44.29	19.82	64.11	123.78	-59.67	256	100	peak
2	0.0311	53.75	19.87	73.62	117.74	-44.12	92	100	peak
3	0.0468	54.00	19.83	73.83	114.19	-40.36	56	100	peak
4	0.0625	51.31	19.79	71.10	111.68	-40.58	119	100	peak
5	0.0781	49.21	19.76	68.97	109.74	-40.77	349	100	peak
6	0.1565	59.21	-7.93	51.28	103.71	-52.43	120	100	peak
7	0.1884	57.58	-8.27	49.31	102.10	-52.79	256	100	peak

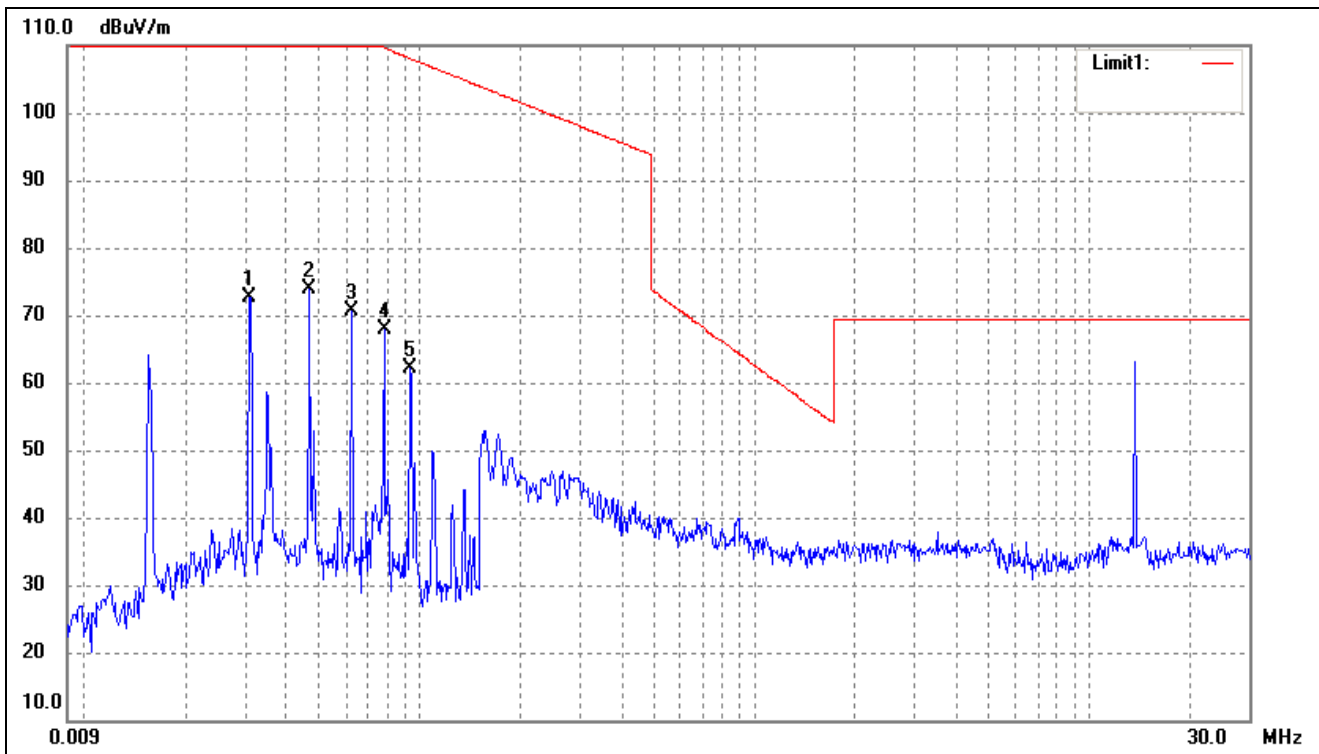
Test Mode	/	Polarity:	Z
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0310	52.25	19.87	72.12	117.76	-45.64	156	100	peak
2	0.0468	52.00	19.83	71.83	114.19	-42.36	348	100	peak
3	0.0625	49.81	19.79	69.60	111.68	-42.08	99	100	peak
4	0.0781	48.21	19.76	67.97	109.74	-41.77	204	100	peak
5	0.1565	58.21	-7.93	50.28	103.71	-53.43	58	100	peak
6	0.2671	54.91	-9.12	45.79	99.07	-53.28	230	100	peak

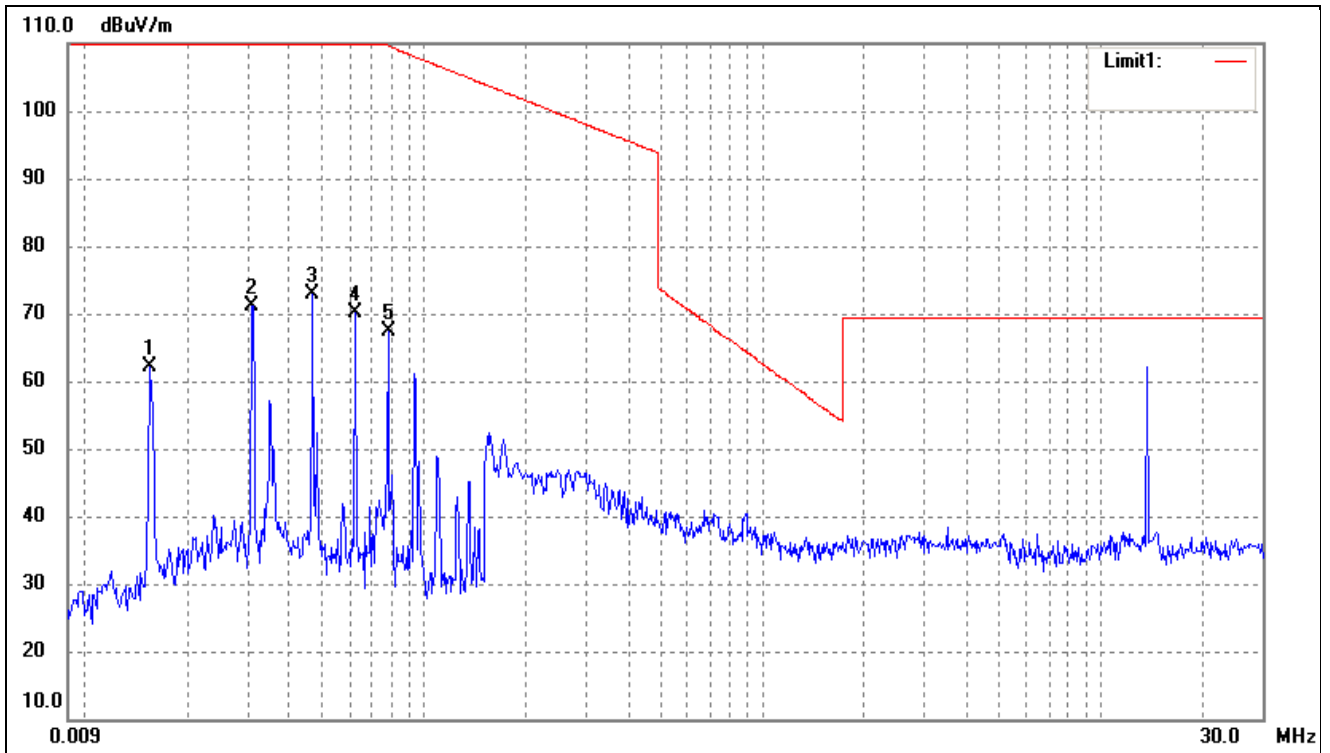
> Model: MDT850

Test Mode	/	Polarity:	X
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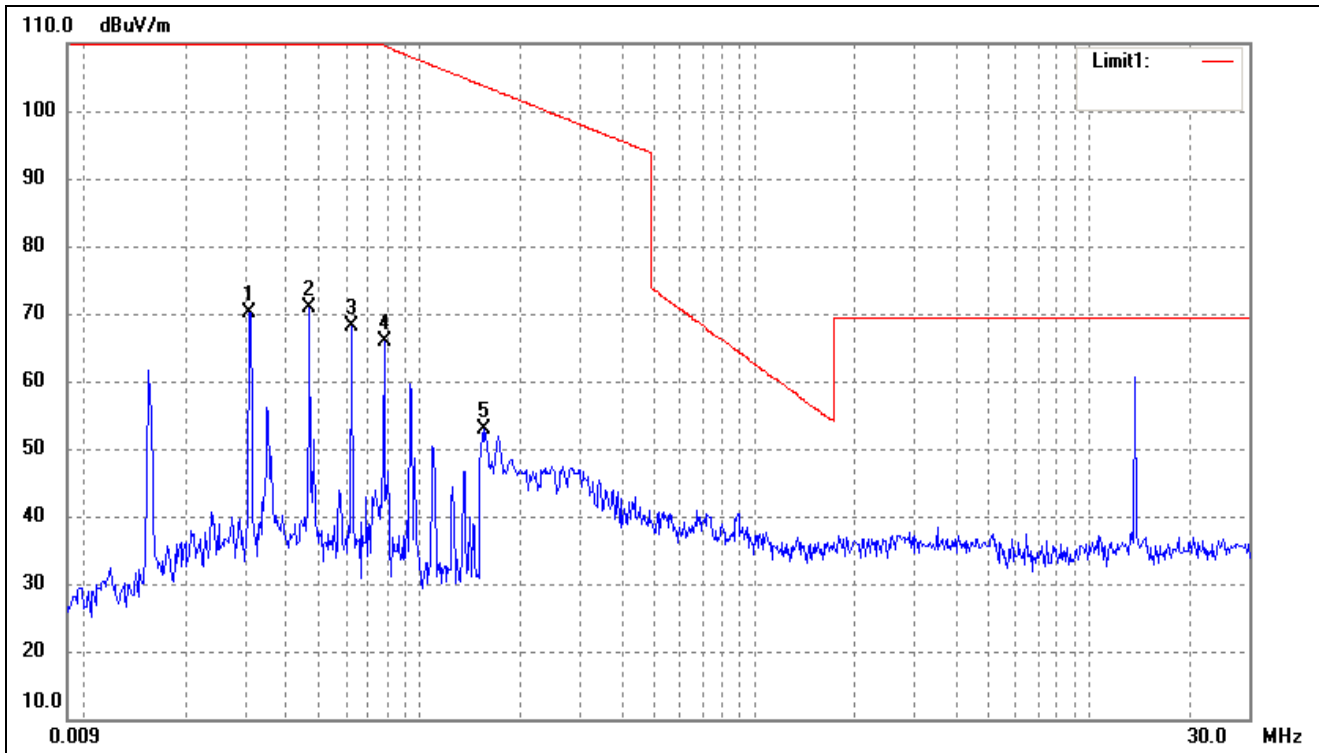
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0309	52.75	19.87	72.62	117.66	-45.04	256	100	peak
2	0.0468	54.00	19.83	73.83	114.07	-40.24	92	100	peak
3	0.0625	50.81	19.79	70.60	111.58	-40.98	56	100	peak
4	0.0781	52.15	15.82	67.97	109.65	-41.68	119	100	peak
5	0.0937	50.36	11.85	62.21	108.08	-45.87	349	100	peak

Test Mode	/	Polarity:	Y
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0154	42.29	19.82	62.11	123.67	-61.56	332	100	peak
2	0.0309	51.25	19.87	71.12	117.66	-46.54	216	100	peak
3	0.0468	53.00	19.83	72.83	114.07	-41.24	61	100	peak
4	0.0625	50.31	19.79	70.10	111.58	-41.48	105	100	peak
5	0.0781	51.65	15.82	67.47	109.65	-42.18	111	100	peak

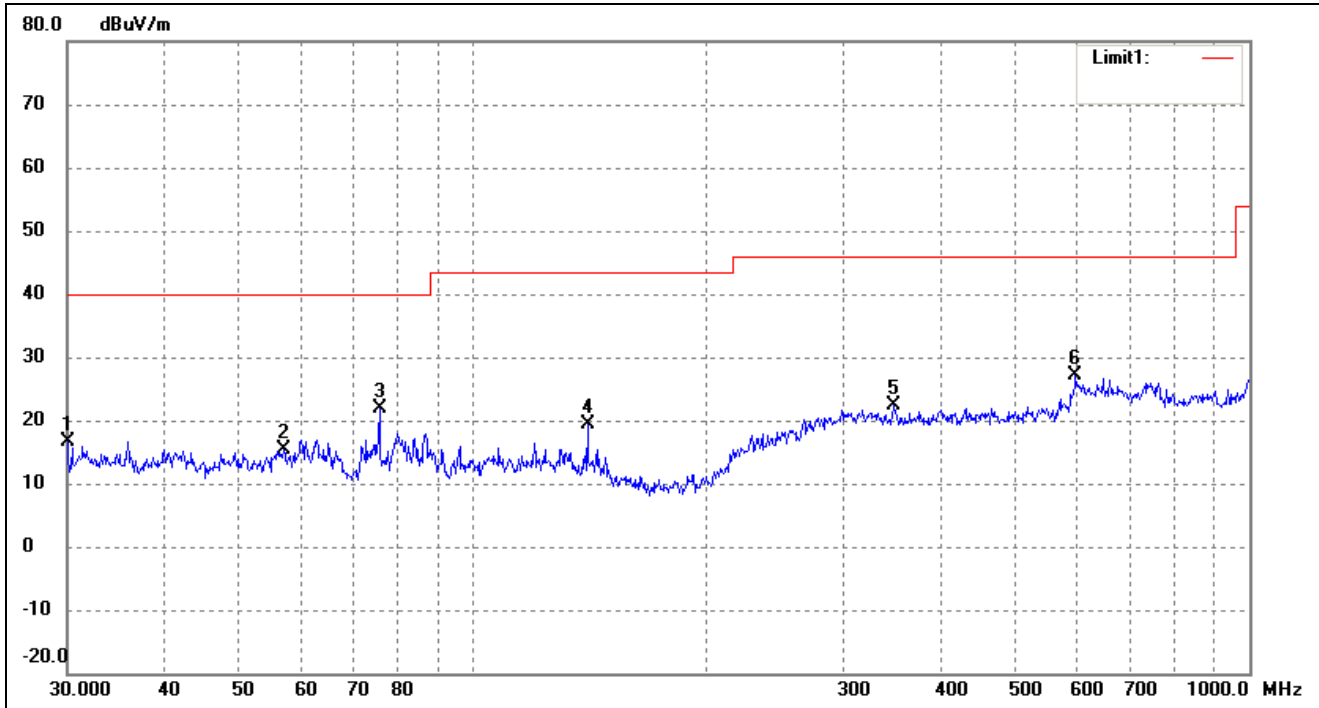
Test Mode	/	Polarity:	Z
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0309	50.25	19.87	70.12	117.66	-47.54	90	100	peak
2	0.0468	51.00	19.83	70.83	114.07	-43.24	91	100	peak
3	0.0625	48.31	19.79	68.10	111.58	-43.48	108	100	peak
4	0.0781	50.15	15.82	65.97	109.65	-43.68	133	100	peak
5	0.1565	56.90	-4.12	52.78	103.65	-50.87	109	100	peak

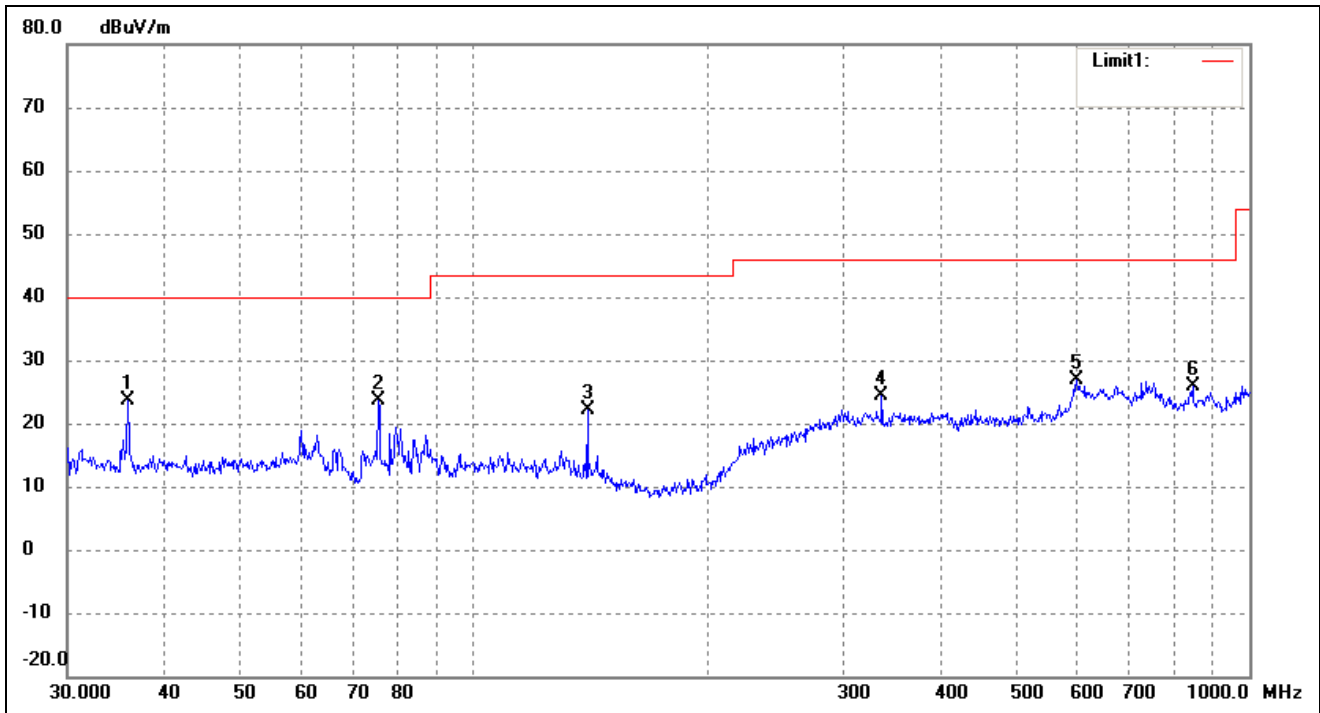
- Above 30MHz
- Model: MDT750

Test Mode	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	30.0000	36.85	-20.15	16.70	40.00	-23.30	281	100	peak
2	56.9911	33.64	-18.33	15.31	40.00	-24.69	94	100	peak
3	75.7113	42.98	-21.13	21.85	40.00	-18.15	56	100	peak
4	140.3420	38.64	-19.15	19.49	43.50	-24.01	91	100	peak
5	348.0274	30.96	-8.49	22.47	46.00	-23.53	261	100	peak
6	597.2233	30.08	-3.06	27.02	46.00	-18.98	110	100	peak

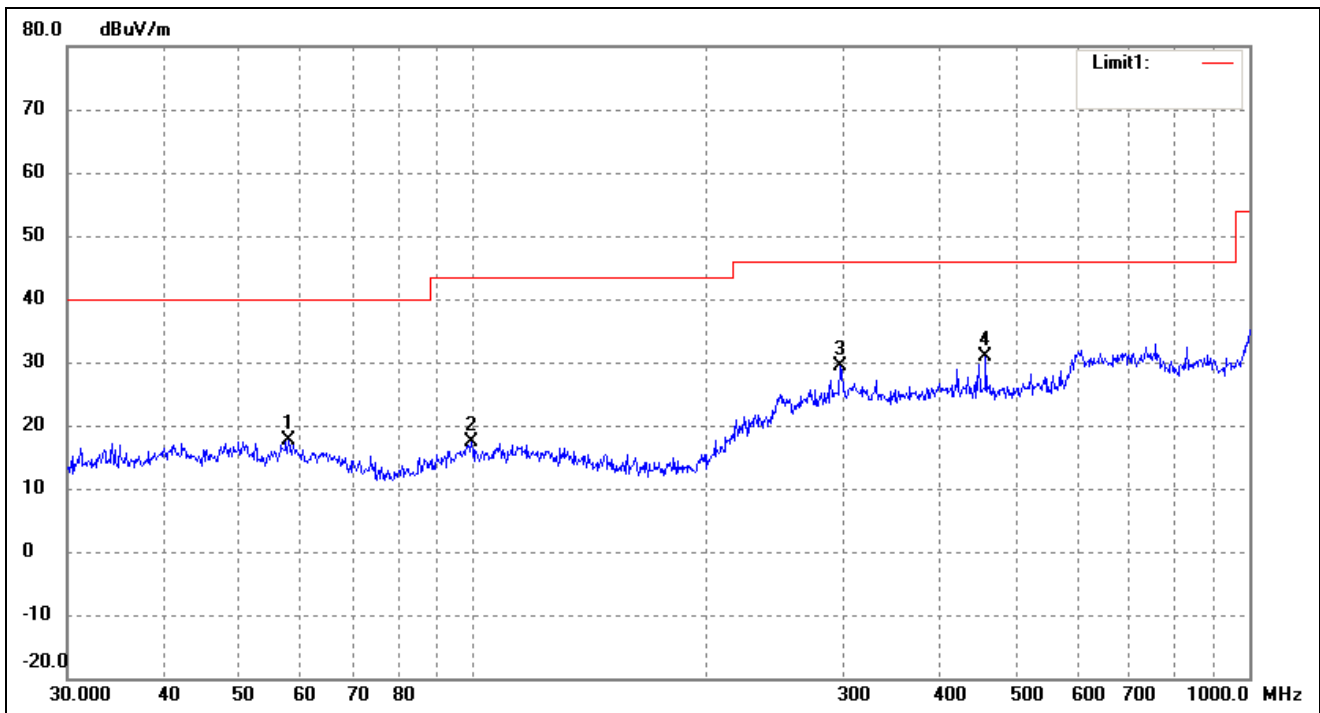
Test Mode	TM1	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	35.8747	42.76	-19.20	23.56	40.00	-16.44	311	100	peak
2	75.4464	44.81	-21.10	23.71	40.00	-16.29	154	100	peak
3	140.3421	41.16	-19.15	22.01	43.50	-21.49	73	100	peak
4	336.0352	32.79	-8.49	24.30	46.00	-21.70	329	100	peak
5	599.3213	29.48	-2.68	26.80	46.00	-19.20	137	100	peak
6	845.0878	29.95	-3.97	25.98	46.00	-20.02	108	100	peak

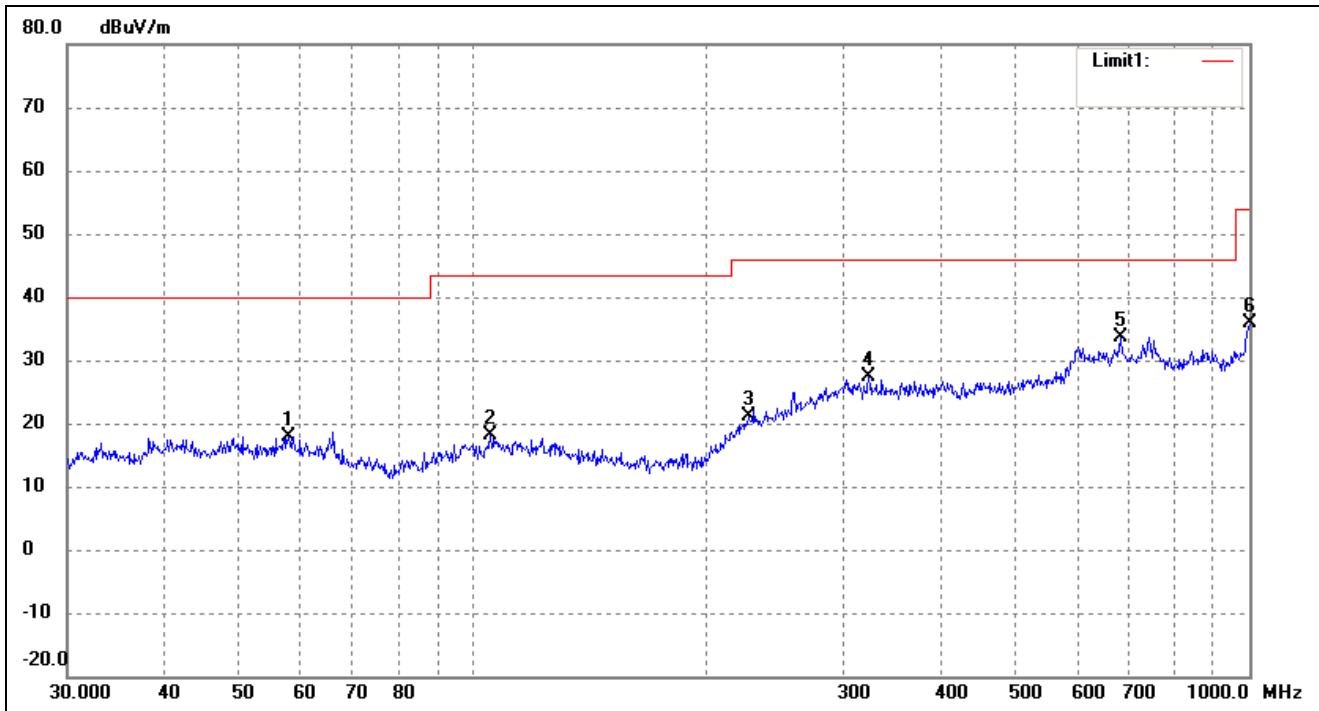
> Model: MDT850

Test Mode	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	57.7962	33.19	-15.54	17.65	40.00	-22.35	87	100	peak
2	99.5281	32.64	-15.14	17.50	43.50	-26.00	184	100	peak
3	297.2241	33.91	-4.43	29.48	46.00	-16.52	63	100	peak
4	457.5073	34.73	-3.76	30.97	46.00	-15.03	104	100	peak

Test Mode	TM1	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	57.7962	36.27	-18.29	17.98	40.00	-22.02	151	100	peak
2	105.2718	36.06	-18.03	18.03	43.50	-25.47	335	100	peak
3	226.0994	34.20	-13.15	21.05	46.00	-24.95	95	100	peak
4	323.3204	35.49	-8.05	27.44	46.00	-18.56	332	100	peak
5	682.3484	36.42	-2.83	33.59	46.00	-12.41	261	100	peak
6	1000.0000	36.86	-0.89	35.97	54.00	-18.03	230	100	peak

5. OUT OF BAND EMISSIONS

5.1 Standard Applicable

According to FCC 15.225 (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

5.2 Test Procedure

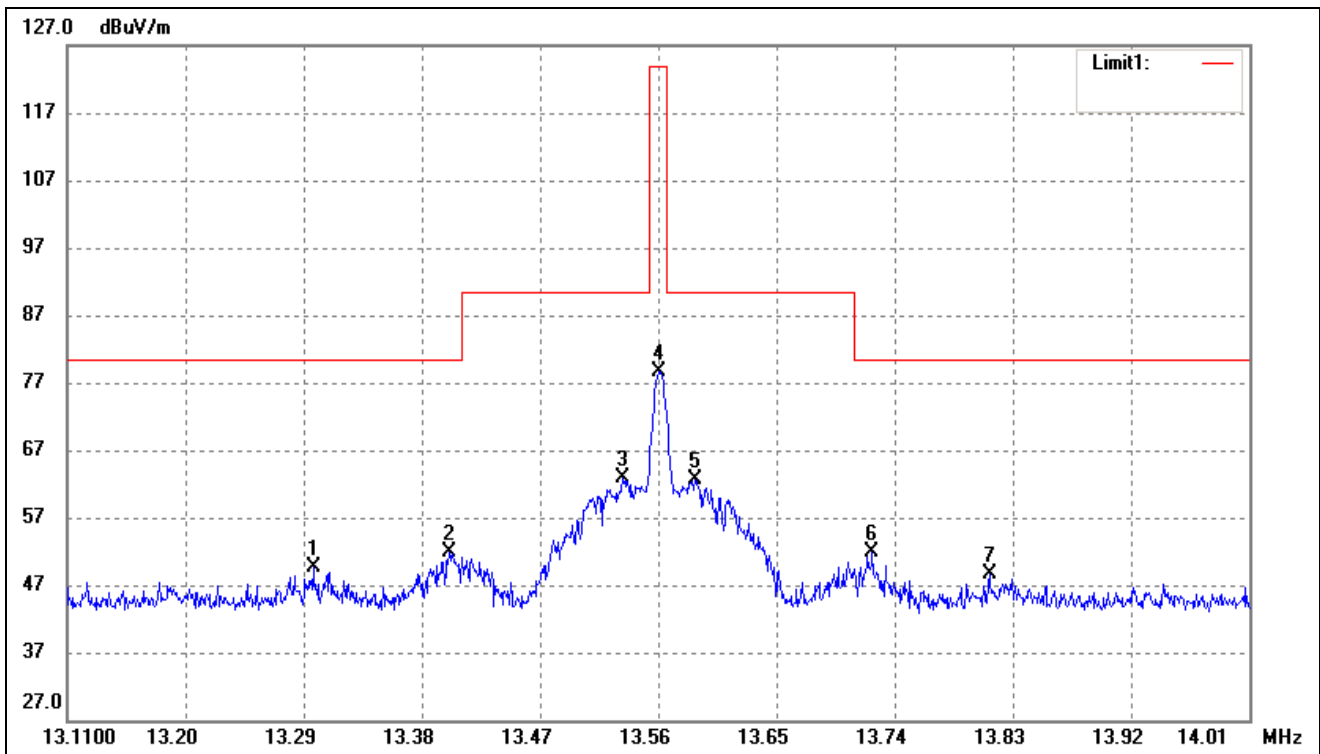
As the radiation test, set the RBW=10kHz VBW=30kHz, observed the outside band of 13.11MHz to 14.01MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

> Model: MDT750

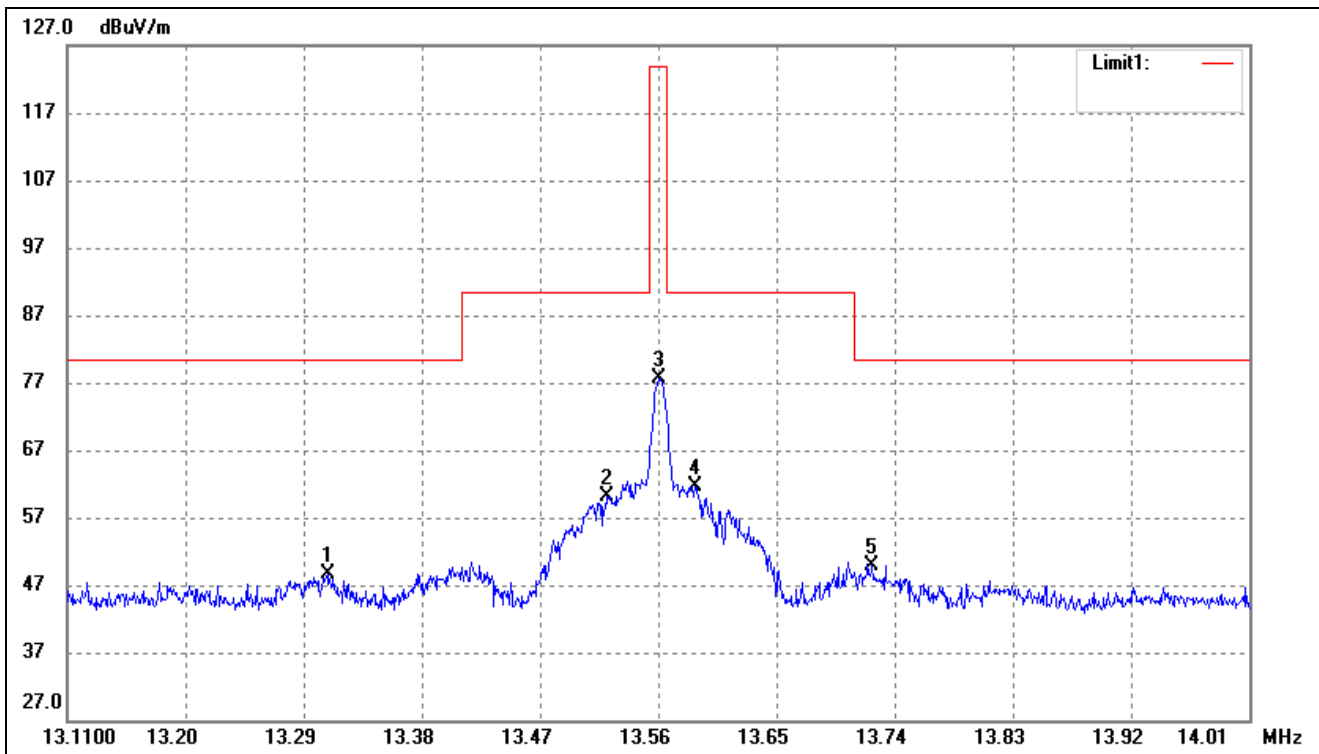
Test Mode	TM1	Polarity:	/
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	13.2972	78.63	-29.08	49.55	80.50	-30.95	271	100	peak
2	13.4007	80.86	-29.07	51.79	80.50	-28.71	343	100	peak
3	13.5330	91.92	-29.07	62.85	90.50	-27.65	87	100	peak
4	13.5609	107.77	-29.07	78.70	124.00	-45.30	285	100	peak
5	13.5879	91.72	-29.07	62.65	90.50	-27.85	119	100	peak
6	13.7229	81.06	-29.07	51.99	80.50	-28.51	230	100	peak
7	13.8120	77.80	-29.07	48.73	80.50	-31.77	271	100	peak

> Model: MDT850

Test Mode	TM1	Polarity:	/
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	13.3079	77.81	-29.08	48.73	80.50	-31.77	96	100	peak
2	13.5213	89.14	-29.07	60.07	90.50	-30.43	93	100	peak
3	13.5609	106.77	-29.07	77.70	124.00	-46.30	146	100	peak
4	13.5878	90.72	-29.07	61.65	90.50	-28.85	149	100	peak
5	13.7228	79.06	-29.07	49.99	80.50	-30.51	337	100	peak

6. Frequency Stability

6.1 Standard Applicable

According to 15.225(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

6.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure.

6.3 Summary of Test Results/Plots

Reference Frequency: 13.56MHz, Limit: 100ppm				
Voltage(%)	Power(VDC)	TEMP(°C)	Freq.Dev(Hz)	Deviation(ppm)
100%	3.70	-30	/	/
100%		-20	21	1.55
100%		-10	13	1.00
100%		0	9	0.66
100%		+10	6	0.44
100%		+20	0	0
100%		+30	17	1.25
100%		+40	8	0.59
100%		+50	11	0.81
Low		3.55	+20	15
High	4.35	+20	14	1.03

8. EMISSION BANDWIDTH

8.1 Applicable Standard

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

8.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Set span = 10kHz, centered on a transmitting channel

RBW \geq 1% 20dB Bandwidth, VBW \geq RBW

Sweep = auto

Detector function = peak

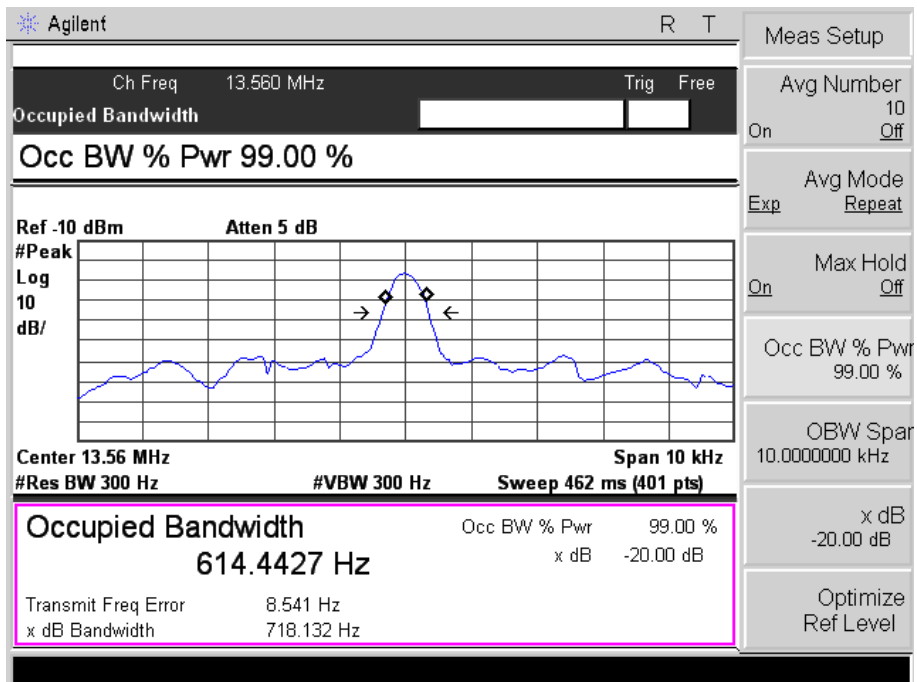
Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down of the emission.

8.3 Summary of Test Results/Plots

Tx Frequency	20dB Emission bandwidth(Hz)
13.56MHz	718.132

Please refer to the test plots as below:



***** END OF REPORT *****