

TEST REPORT

Product : Embedded UHF Module M900
Trade mark : N/A
Model/Type reference : OEM-UHF-M900
Serial number : N/A
Ratings : 5 Vdc
FCC ID : S6A-M900
Report number : EED32H000521
Date : Jun. 25, 2015
Regulations : See below

Test Standards	Results
☒ 47 CFR FCC Part 15 Subpart C 15.247: 2014	PASS

Prepared for:

iDTRONIC GmbH

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Jun. 25, 2015

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<i>N/A means not applicable.</i>		

1. GENERAL INFORMATION

Applicant: iDTRONIC GmbH
 Donnersbergweg 1, Ludwigshafen am Rhein, 67059, Germany
Manufacturer: iDTRONIC GmbH
 Donnersbergweg 1, Ludwigshafen am Rhein, 67059, Germany
FCC ID: S6A-M900
Product: Embedded UHF Module M900
Trade mark: N/A
Model/Type reference: OEM-UHF-M900
Serial Number: N/A
Report Number: EED32H000521
Sample Received Date: May 13, 2015
Sample tested Date: May 13, 2015 to Jun. 25, 2015

The above equipment was tested by Centre Testing International (Shenzhen) Corporation for compliance with the requirements set forth in the FCC Rules and the measurement procedure according to ANSI C63.4:2009.

2. TEST SUMMARY

No.	Test Item	Rule	Test Result
1	20dB Bandwidth	FCC 15.247(a)(1)	PASS
2	Carrier Frequency Separation	FCC15.247(a)(1)	PASS
3	Number of Hopping Frequency	FCC 15.247(a)(iii)	PASS
4	Time of Occupancy (Dwell Time)	FCC 15.247(a)(iii)	PASS
5	Maximum Peak Conducted Output Power	FCC 15.247(b)(1)	PASS
6	Conducted Bandedge Emission / Conducted Spurious Emission	FCC PART15.247(d)	PASS
7	Radiated Bandedge Emission / Radiated Spurious Emission	FCC PART15.247(d)	PASS
8	AC Conducted Emission	FCC PART15.207	PASS
9	Antenna Requirements *	FCC PART15.203	PASS (See Notes)

*: According to Section 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 EUT has a built in antenna which is a short wire solder on the PCB, this is permanently attached antenna and meets the requirements of this section.

3. PRODUCT INFORMATION

Items	Description
Rating	5 Vdc
Type of Modulation	FHSS
Antenna Type	Integral antenna
Frequency Range	902.75 ~ 927.25MHz
Gain	1.5dBi

List of frequencies:

No.	Frequency (MHz)	No.	Frequency (MHz)	No.	Frequency (MHz)	No.	Frequency (MHz)	No.	Frequency (MHz)
1	902.75	11	907.75	21	912.75	31	917.75	41	922.75
2	903.25	12	908.25	22	913.25	32	918.25	42	923.25
3	903.75	13	908.75	23	913.75	33	918.75	43	923.75
4	904.25	14	909.25	24	914.25	34	919.25	44	924.25
5	904.75	15	909.75	25	914.75	35	919.75	45	924.75
6	905.25	16	910.25	26	915.25	36	920.25	46	925.25
7	905.75	17	910.75	27	915.75	37	920.75	47	925.75
8	906.25	18	911.25	28	916.25	38	921.25	48	926.25
9	906.75	19	911.75	29	916.75	39	921.75	49	926.75
10	907.25	20	912.25	30	917.25	40	922.25	50	927.25

4. MEASUREMENT UNCERTAINTY

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement items	Uncertainty
Conducted Emission Test	3.2 dB
Radiated Emissions / Bandedge Emission	4.5 dB

5. SUPPORT EQUIPMENT LIST

Device Type	Brand	Model	Data Cable	Remark
Notebook	Lenovo	E42L	N/A	FCC DOC
Mouse	L.Selectron	M004	Un-shielded 1.2M	FCC DOC

6. TEST EQUIPMENT LIST

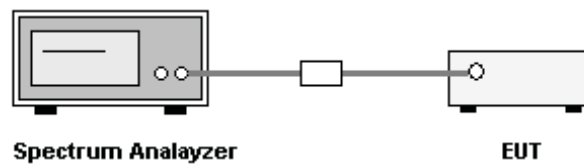
Equipment	Manufacturer	Model	Serial No.	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06/01/2016
Receiver	R&S	ESCI	100435	07/08/2015
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	618	06/17/2016
Multi device Controller	maturo	NCD/070/10711 112	---	N/A
Horn Antenna	ETS-LINGREN	3117	00057407	07/07/2015
Microwave Preamplifier	Agilent	8449B	3008A02425	03/19/2016
Spectrum Analyzer	R&S	FSP40	100416	07/06/2015
Receiver	R&S	ESCI	100009	07/19/2015
LISN	R&S	ENV216	100098	07/19/2015

7. 20dB Bandwidth Measurement

7.1. LIMITS

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.2. BLOCK DIAGRAM OF TEST SETUP



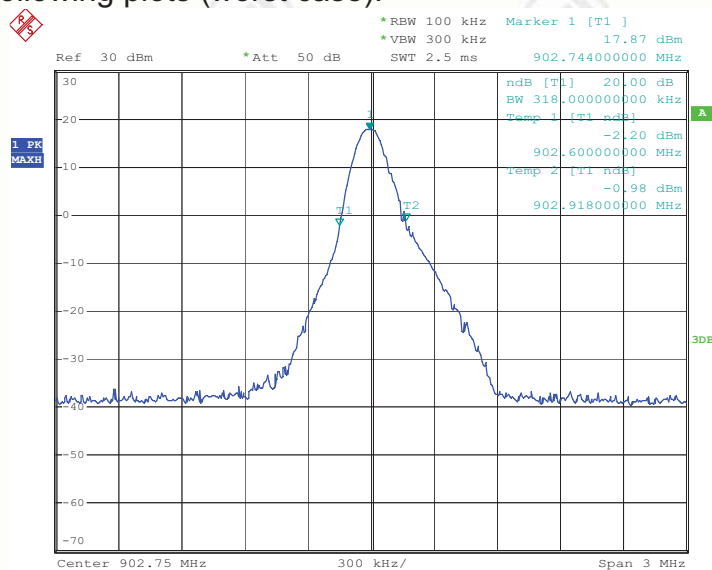
7.3. TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW $\geq$ 1% of the 20 dB bandwidth; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
4. Measure and record the results in the test report.

7.4. TEST RESULT

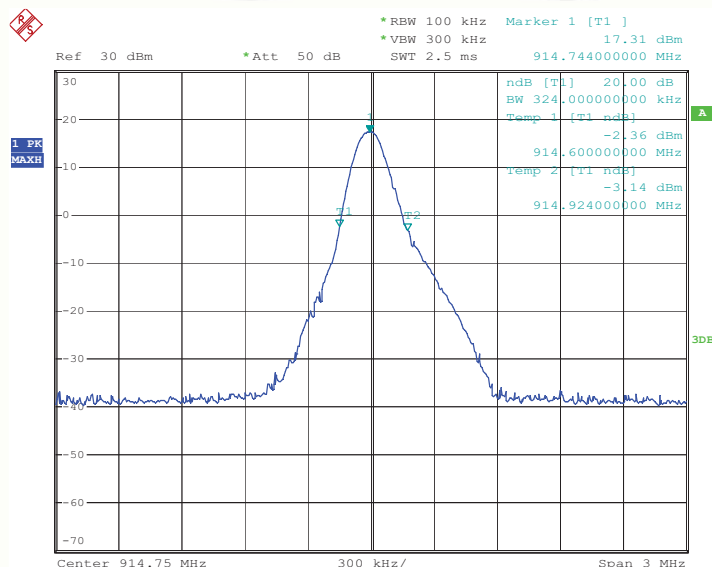
Frequency (MHz)	20dB BW (kHz)
902.75	318
914.75	324
927.25	318

Please see the following plots (worst case):



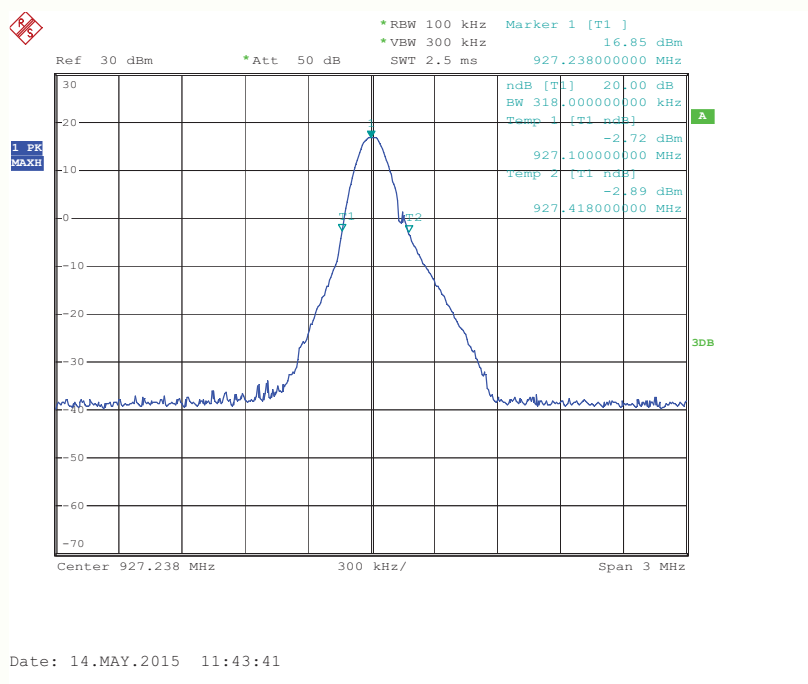
Date: 14.MAY.2015 12:11:45

902.75MHz



Date: 14.MAY.2015 12:02:22

914.75MHz



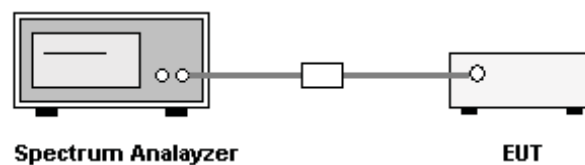
927.25MHz

8. CARRIER FREQUENCY SEPARATION

8.1. LIMITS

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

8.2. BLOCK DIAGRAM OF TEST SETUP



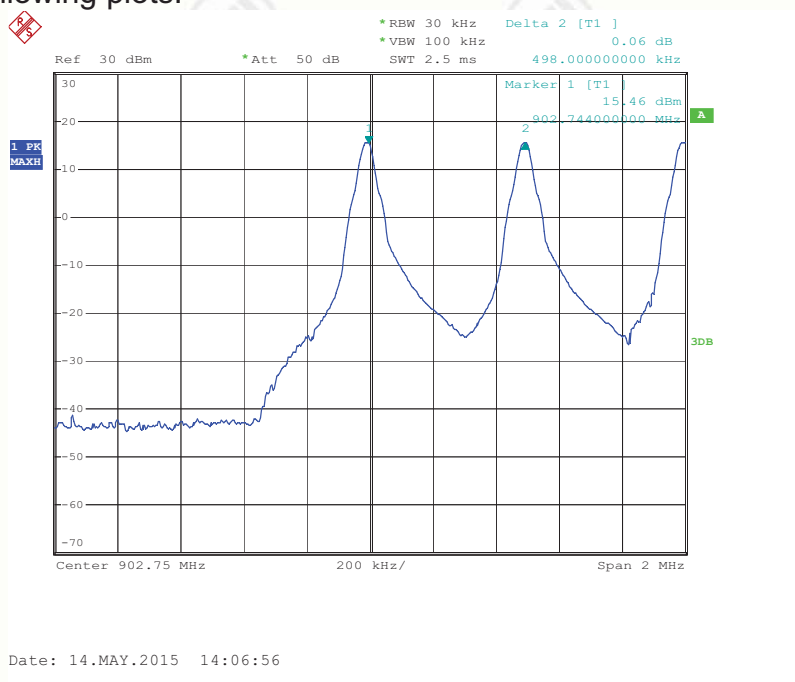
8.3. TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Enable the EUT hopping function.
4. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW $\geq$ 1% of the span; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
5. Measure and record the results in the test report.

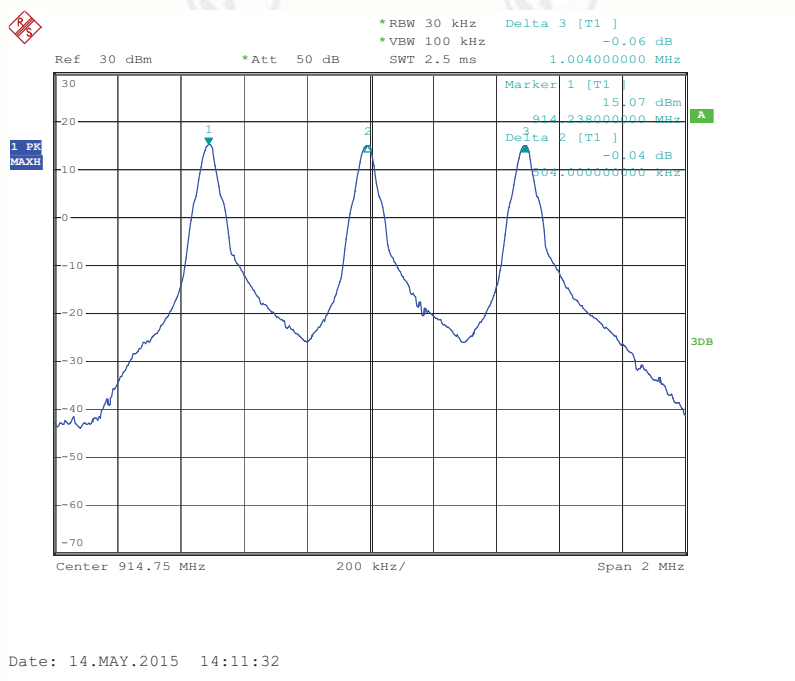
8.4. TEST RESULT

Carrier Frequency Separation: 0.5MHz

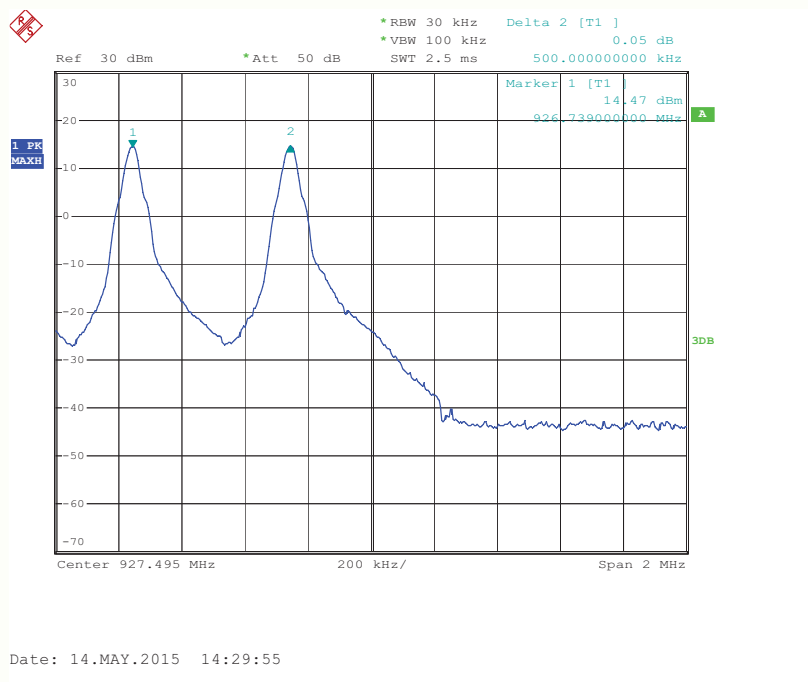
Please see the following plots:



Low channel



Middle channel



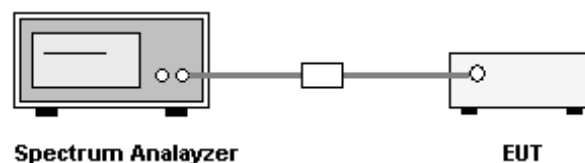
High channel

9. NUMBER OF HOPPING FREQUENCY

9.1. LIMITS

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

9.2. BLOCK DIAGRAM OF TEST SETUP



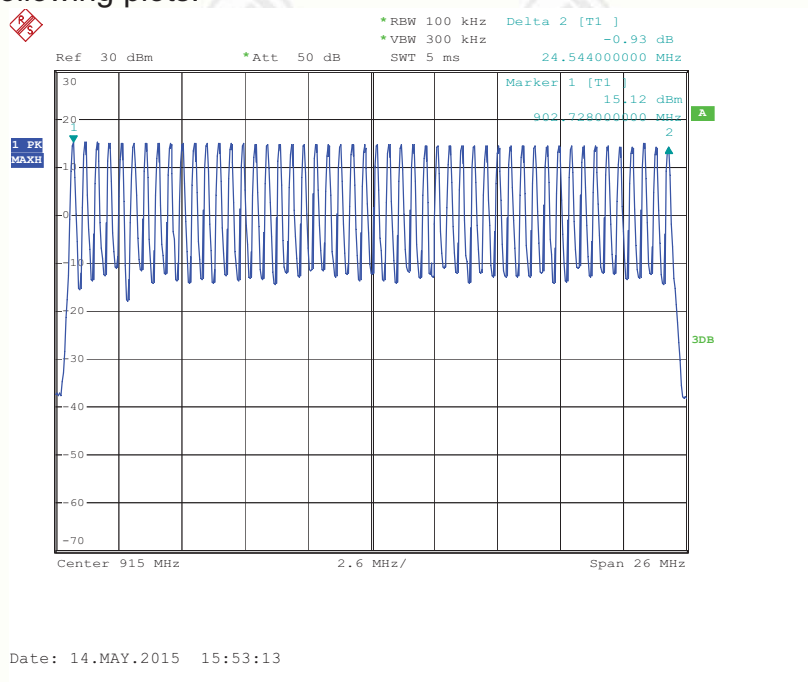
9.3. TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Enable the EUT hopping function.
4. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW $\geq$ 1% of the span; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
5. The number of hopping frequency used is defined as the number of total channel.
6. Record the measurement data derived from spectrum analyzer.

9.4. TEST RESULT

Number of Hopping Frequency is 50, with frequency space = 0.5MHz.

Please see the following plots:

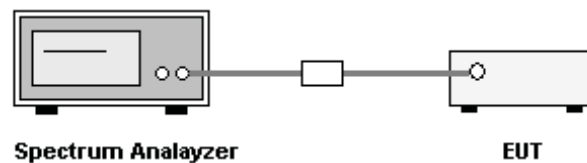


10. TIME OF OCCUPANCY (DWELL TIME)

10.1. LIMITS

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

10.2. BLOCK DIAGRAM OF TEST SETUP



10.3. TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable.
The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Enable the EUT hopping function.
4. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
5. Measure and record the results in the test report.

10.4. TEST RESULT

A period time = $0.4 \text{ (ms)} * 50 = 20 \text{ (s)}$
 $N=19$

CH Low:

Time slot = 8.6ms

Dwell time = $N * T = 19 * 8.6 = 163.4 \text{ ms}$

CH Mid:

Time slot = 8.9ms

Dwell time = $N * T = 19 * 8.9 = 169.1 \text{ ms}$

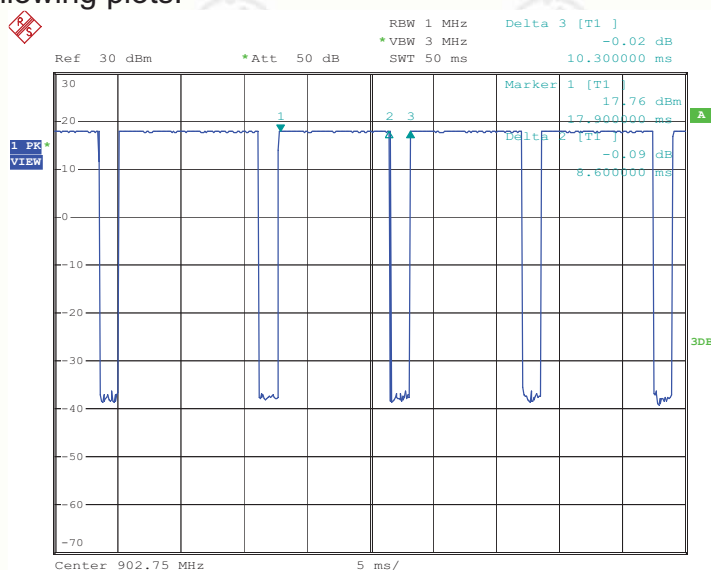
CH High:

Time slot = 8.8ms

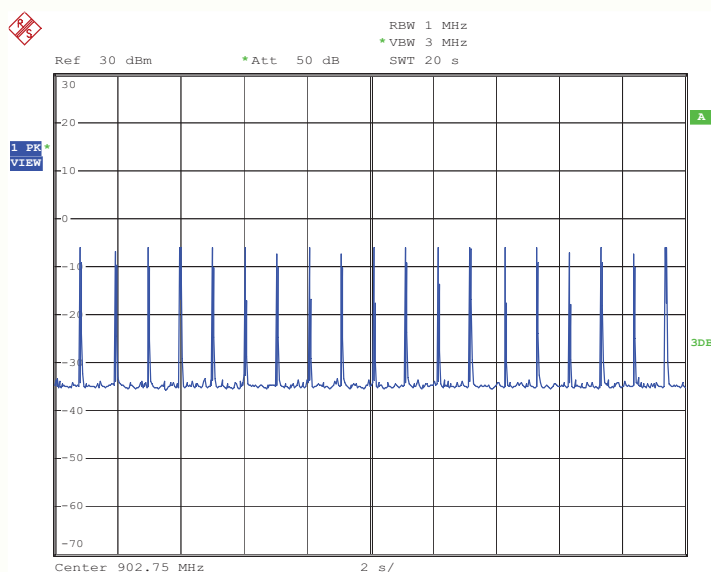
Dwell time = $N * T = 19 * 8.8 = 167.2 \text{ ms}$

Remark: Max Dwell time with 10s is 84.55ms.

Please see the following plots:

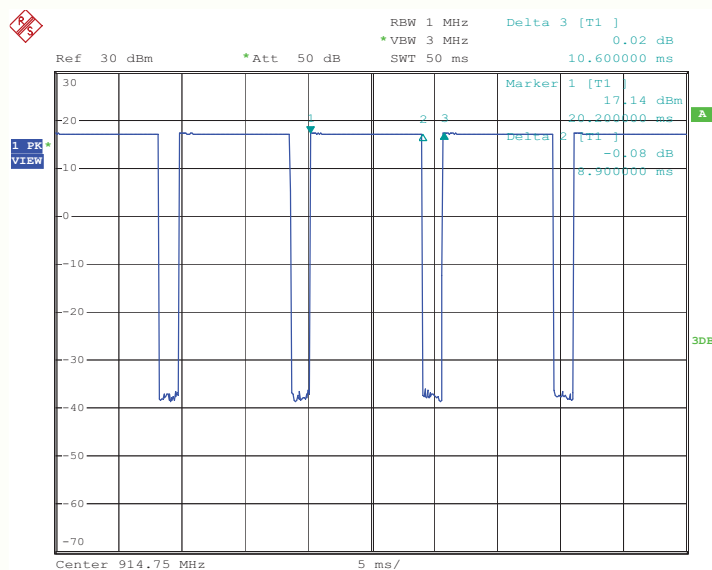


Date: 14.MAY.2015 16:49:16

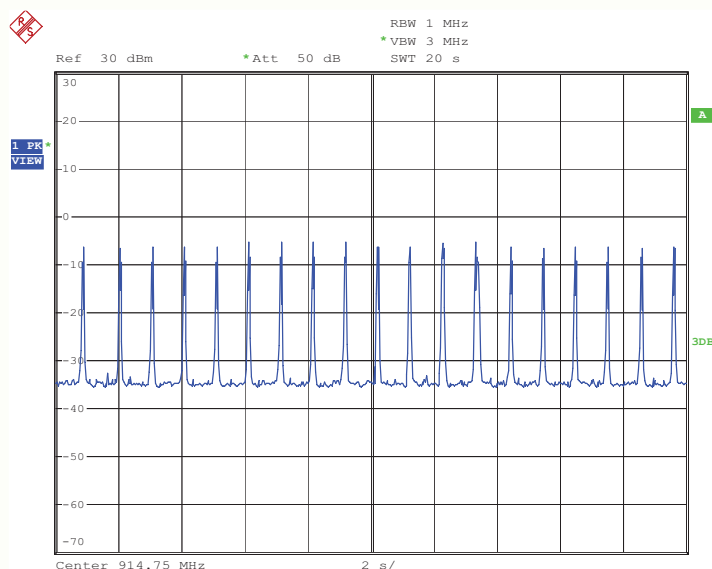


Date: 28.MAY.2015 19:48:40

902.75MHz

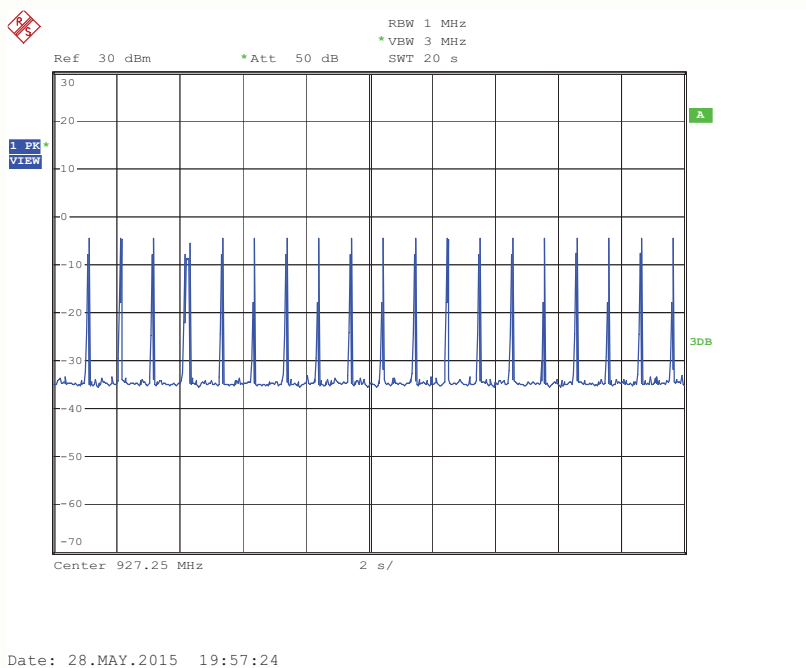
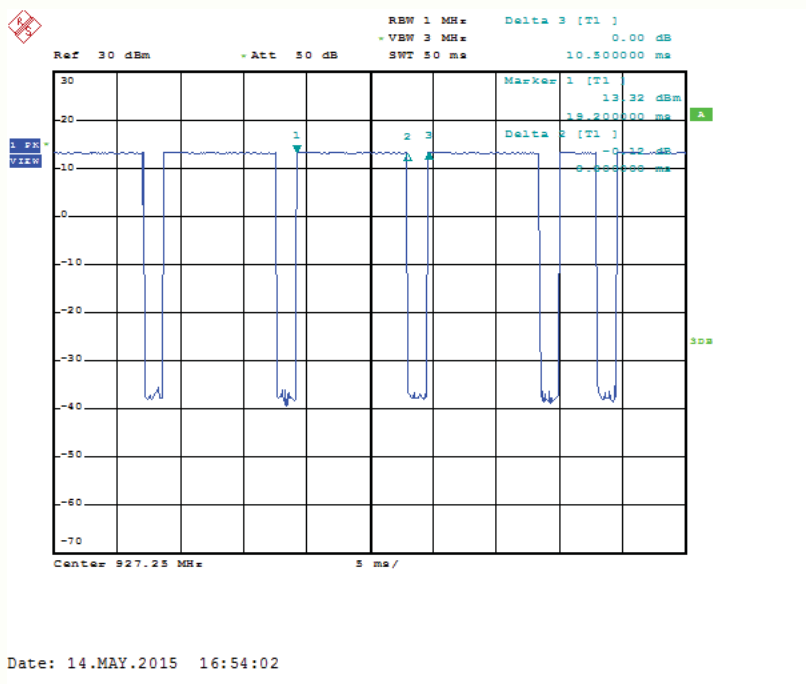


Date: 14.MAY.2015 16:53:00



Date: 28.MAY.2015 19:52:57

914.75MHz



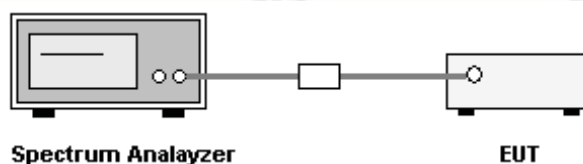
927.25MHz

11. MAXIMUM PEAK CONDUCTED OUTPUT POWER MEASUREMENT

11.1. LIMITS

The limit for peak output power is 0.25Watt (24dBm).

11.2. BLOCK DIAGRAM OF TEST SETUP



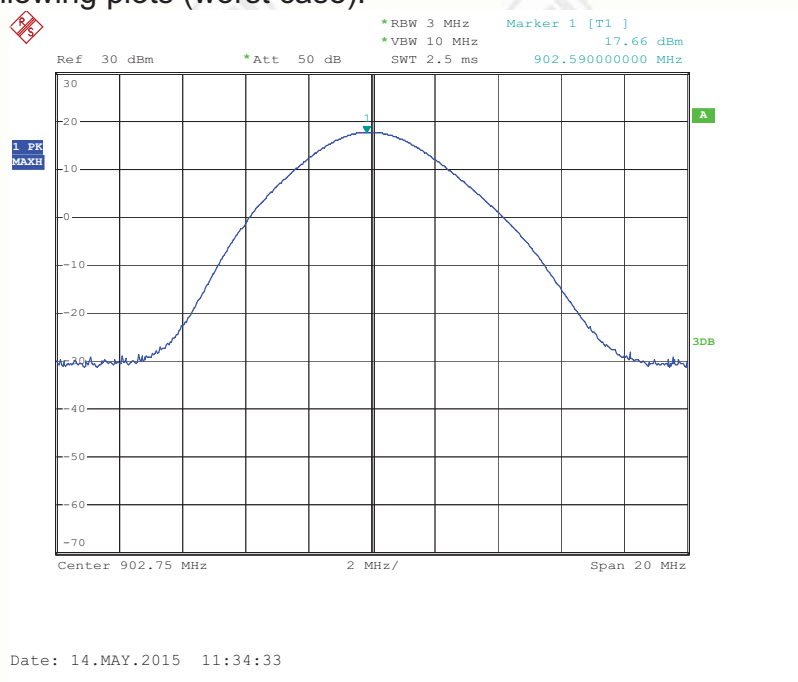
11.3. TEST PROCEDURE

1. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Measure the conducted output power with cable loss and record the results in the test report.
4. Measure and record the results in the test report.

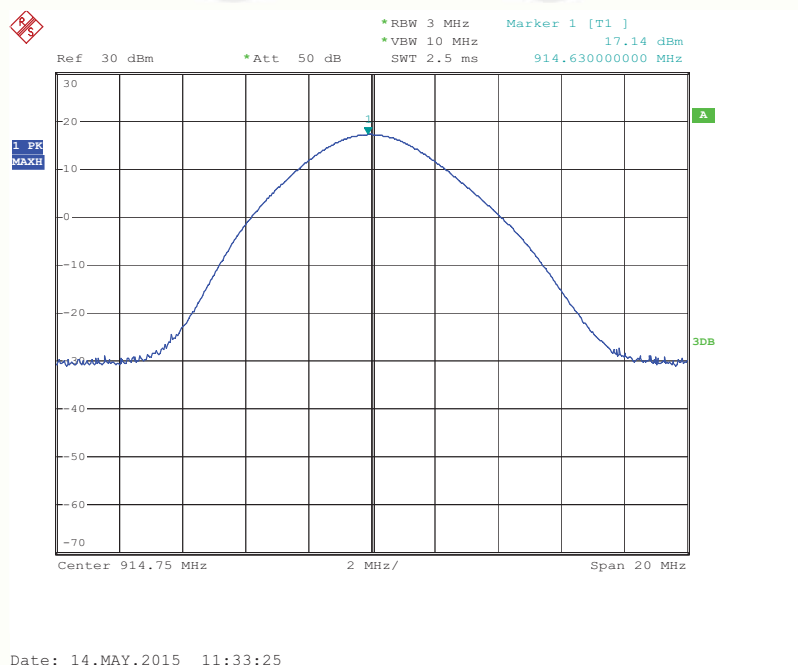
11.4. TEST RESULT

Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result (Pass / Fail)
902.75	17.66	24	Pass
914.75	17.14	24	Pass
927.25	16.59	24	Pass

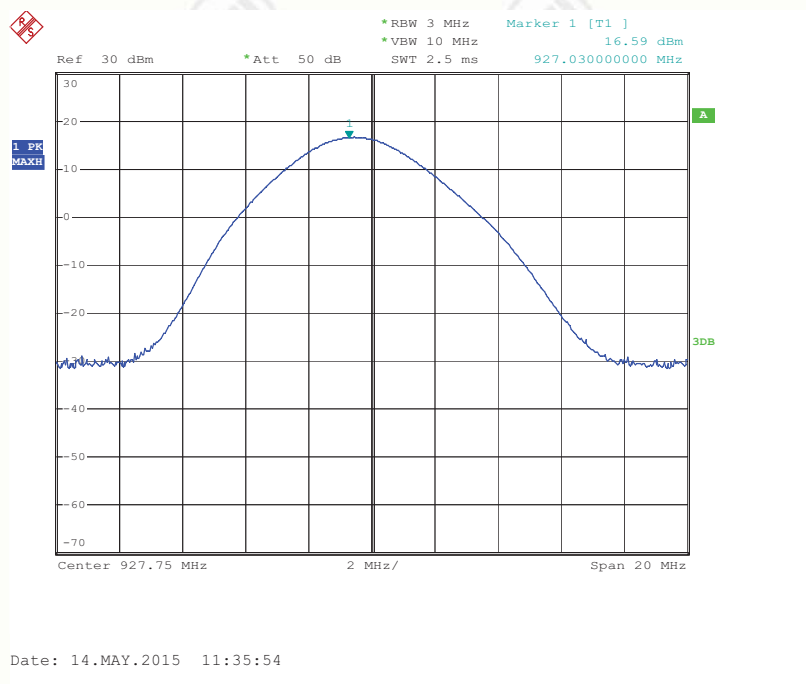
Please see the following plots (worst case):



902.75MHz



914.75MHz



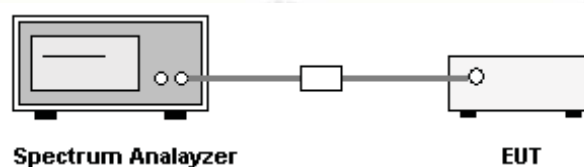
927.25MHz

12. CONDUCTED BANDEDGE EMISSION MEASUREMENT

12.1. LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

12.2. BLOCK DIAGRAM OF TEST SETUP



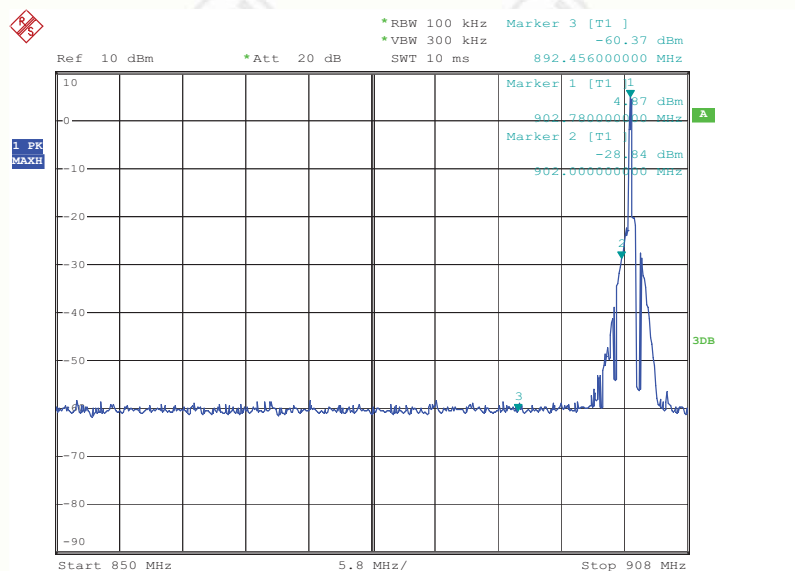
12.3. TEST PROCEDURE

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. Set RBW = 100 kHz, VBW = 300 kHz ($\geq$ RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
3. Enable hopping function of the EUT and then repeat step 1 and 2.
4. Measure and record the results in the test report.

12.4. TEST RESULT

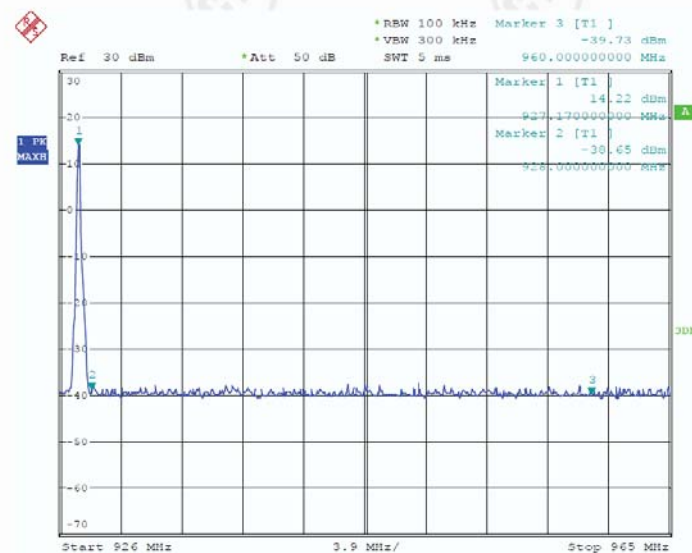
Pass.

Hopping off mode:



Date: 25.JUN.2015 15:12:34

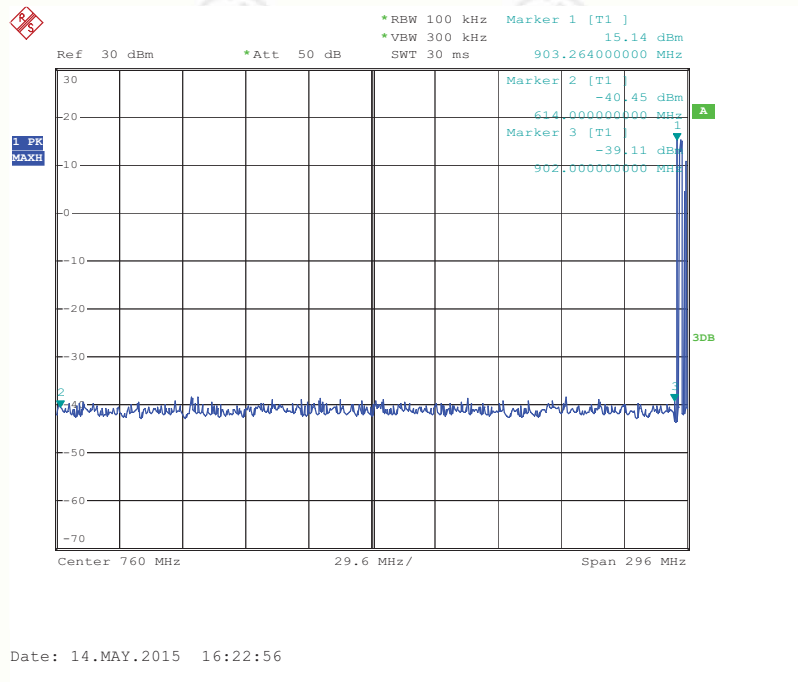
Low channel



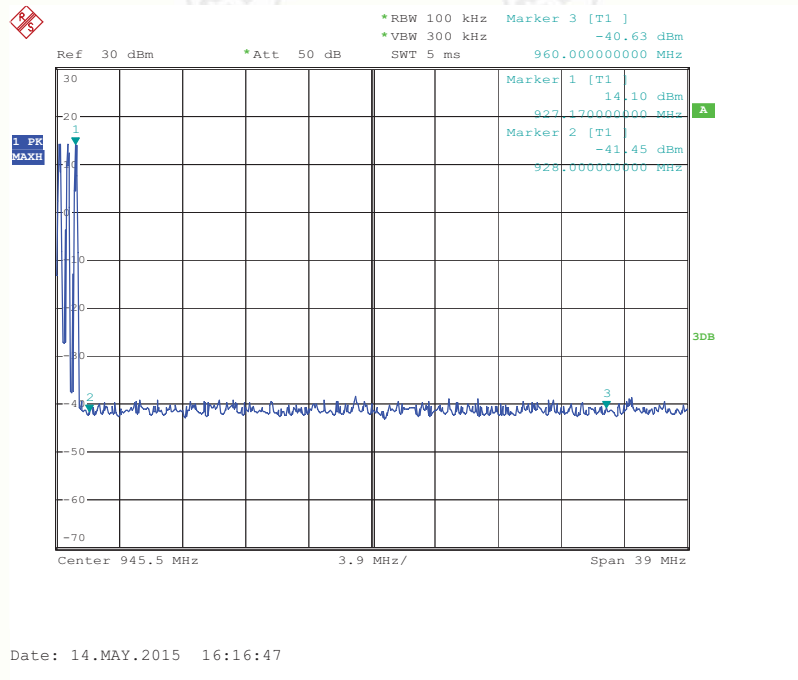
Date: 14.MAY.2015 16:14:51

High channel

Hopping mode:



Low channel



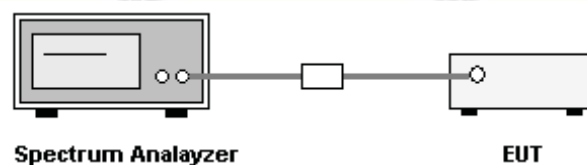
High channel

13. CONDUCTED SPURIOUS EMISSION MEASUREMENT

13.1. LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits.

13.2. BLOCK DIAGRAM OF TEST SETUP



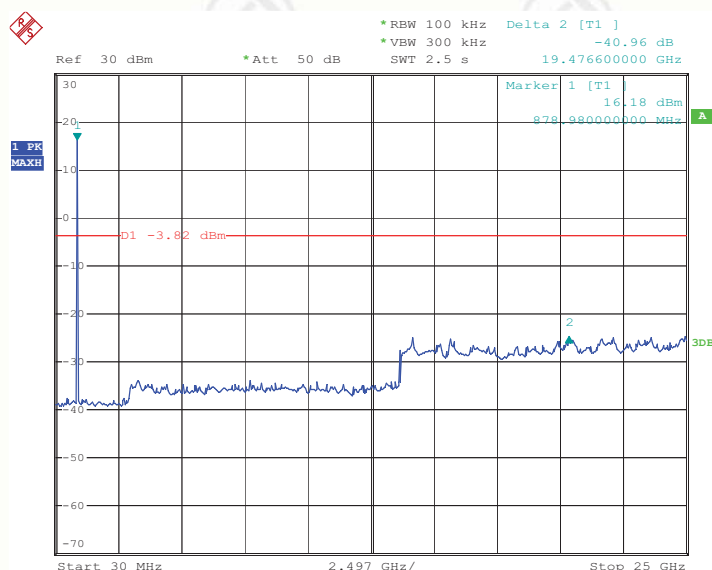
13.3. TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100 kHz, VBW = 300 kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
4. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

13.4. TEST RESULT

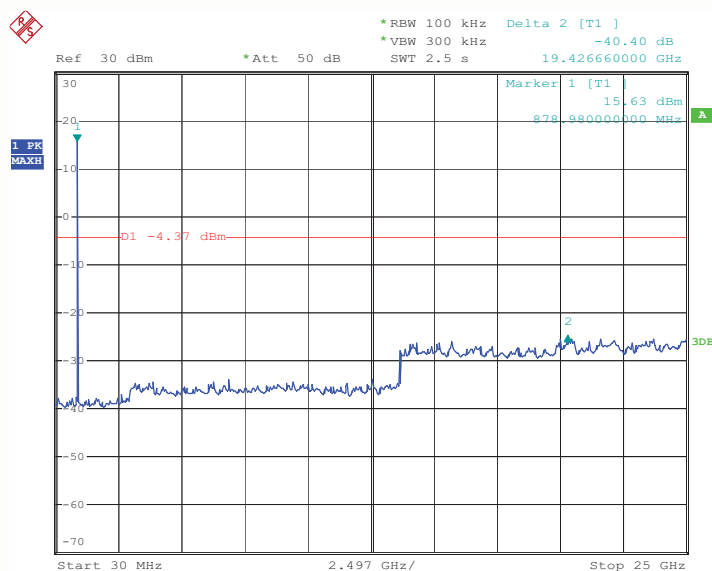
Pass.

Please see the following plots:



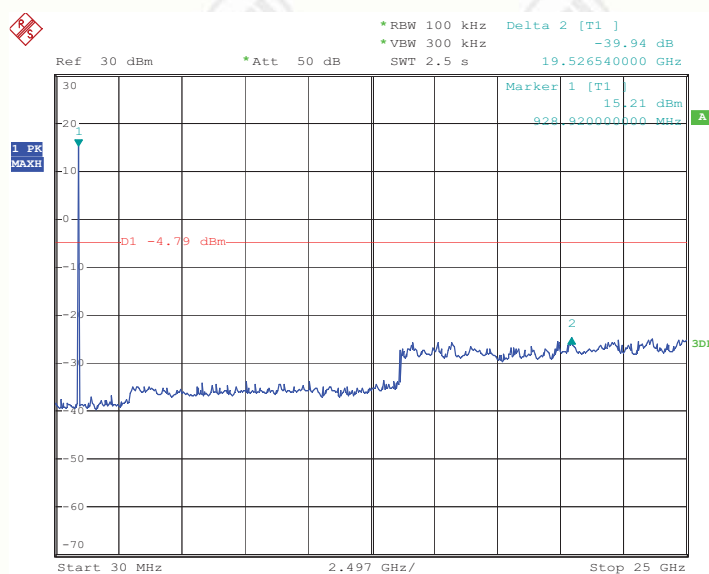
Date: 14.MAY.2015 16:28:06

902.75MHz



Date: 14.MAY.2015 16:30:13

914.75MHz



Date: 14.MAY.2015 16:32:28

927.25MHz

14. RADIATED BANDEDGE EMISSION / RADIATED SPURIOUS EMISSION MEASUREMENT

14.1. LIMITS

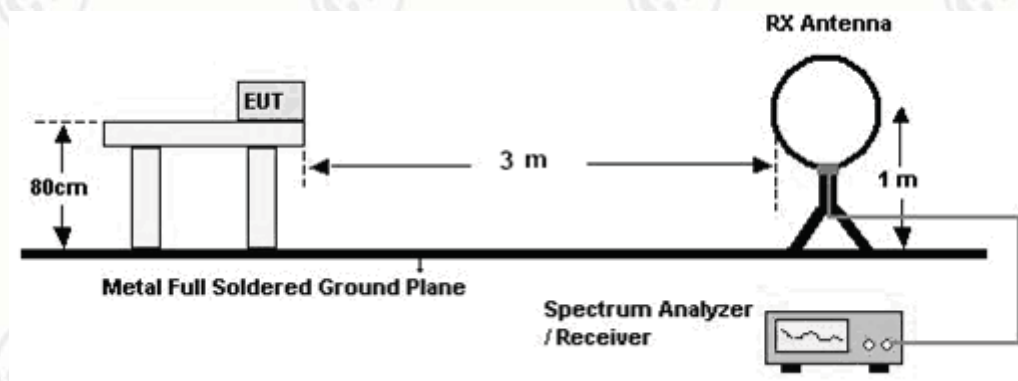
The field strength of any emissions, which appear outside of operating frequency band and restricted band specified on FCC 15.205(a), shall not exceed the general radiated emission limits as below.

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

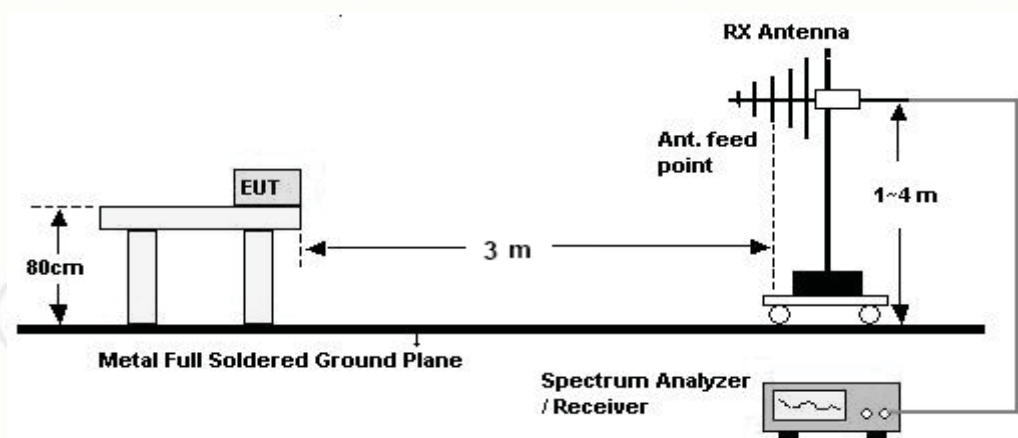
Note: the tighter limit applies at the band edges.

14.2. BLOCK DIAGRAM OF TEST SETUP

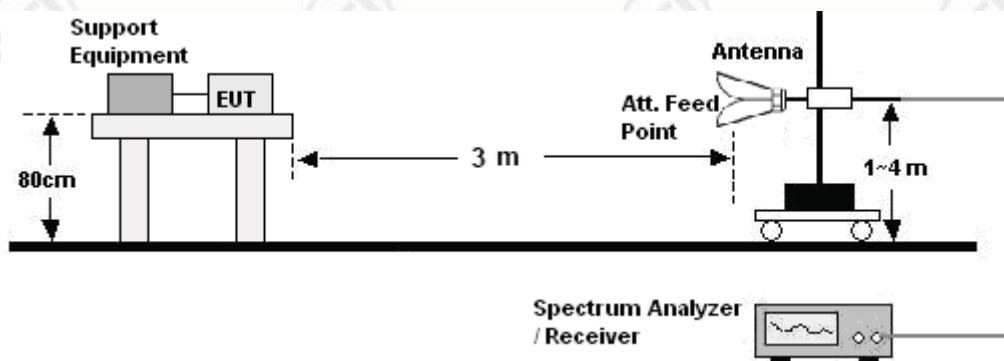
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30 - 1000MHz



For radiated emissions from 1GHz to 25GHz



14.3. TEST PROCEDURE

Below 30MHz

- The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

30MHz ~ 1GHz:

- The Product was placed on the non-conductive turntable 0.8m above the ground at a chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 100 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value (120 kHz RBW): vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Above 1GHz:

- The EUT was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

14.4. TEST RESULT

All the modes of operation (X, Y, Z) were investigated and the worst-case emissions are reported.

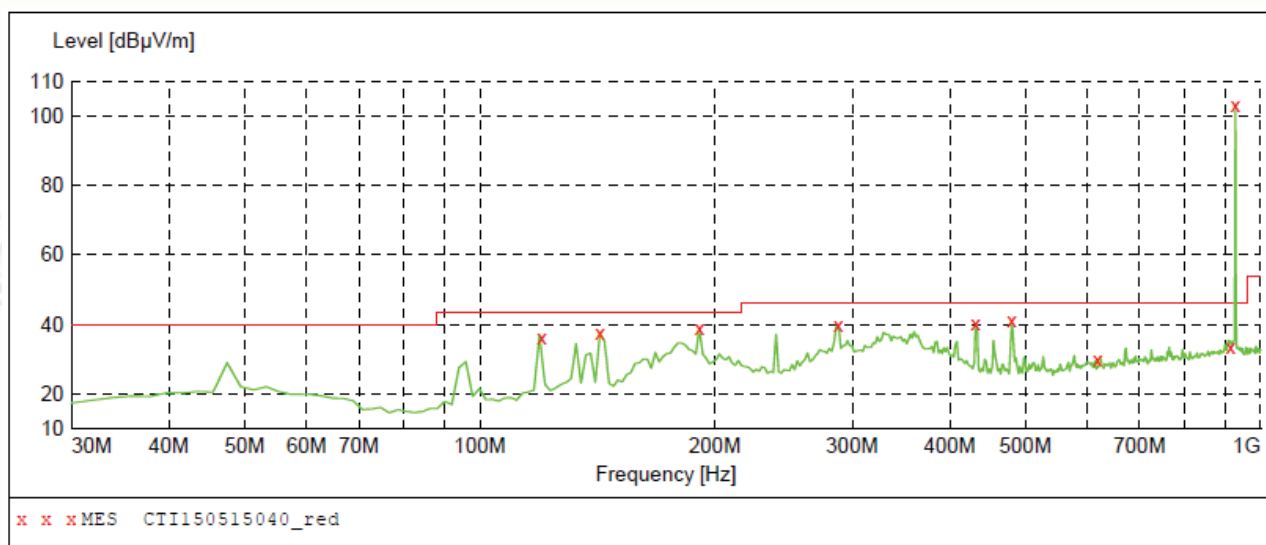
A. Below 30MHz:

No emissions were found higher than the background below 30MHz and background is lower than the limit, so it deems to compliance with the limit without recorded.

B. 30MHz ~ 1GHz:

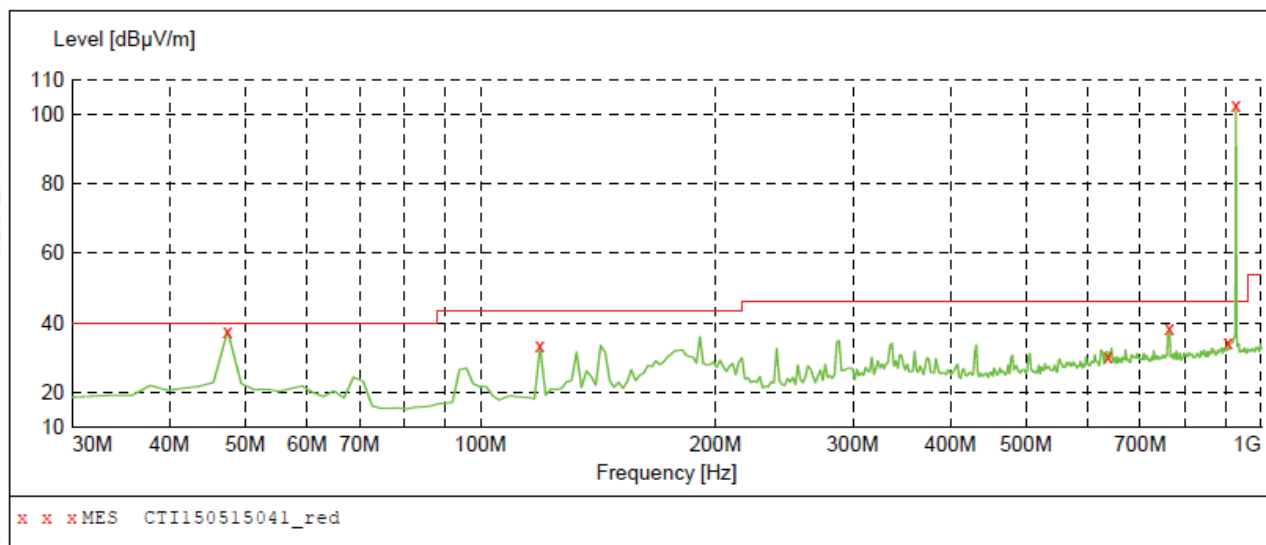
902.75MHz:

H:



Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
103.80	36.4	43.5	QP	H	P
142.50	37.5	43.5	QP	H	P
191.10	38.8	43.5	QP	H	P
288.00	39.7	46	QP	H	P
431.20	40.2	46	QP	H	P
480.00	41.2	46	QP	H	P
614.00	30.3	46	QP	H	P
902.00	30.8	46	QP	H	P
902.75	103.7	--	PK	H	--

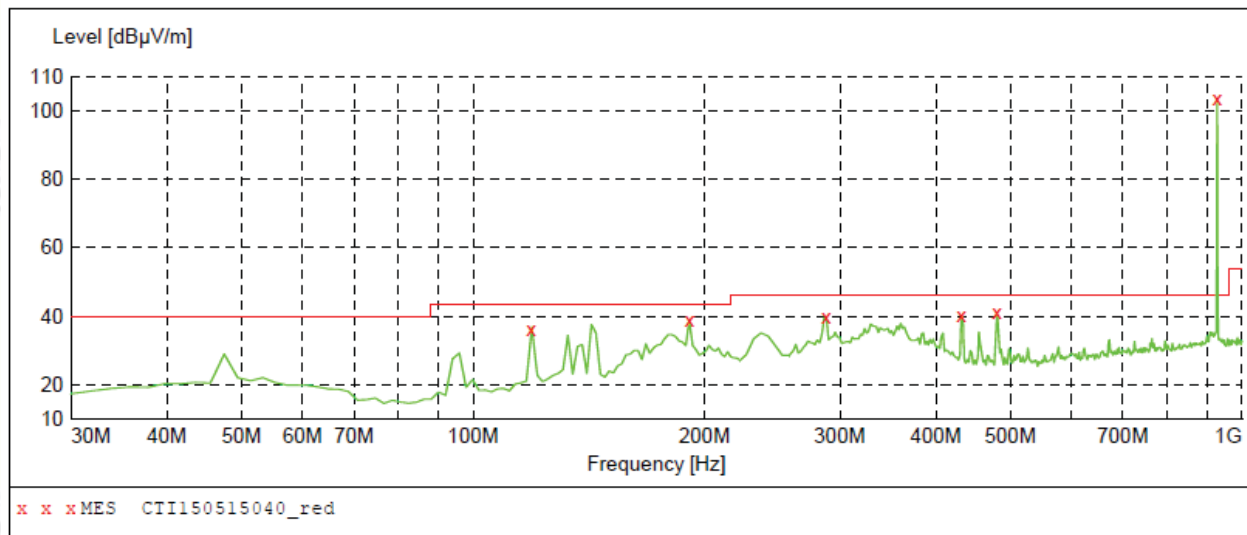
V:



Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
47.50	37.2	40	QP	V	P
119.20	33.2	43.5	QP	V	P
614.00	36.2	46	QP	V	P
763.30	38.5	46	QP	V	P
902.00	36.4	46	QP	V	P
902.75	102.7	--	PK	V	--

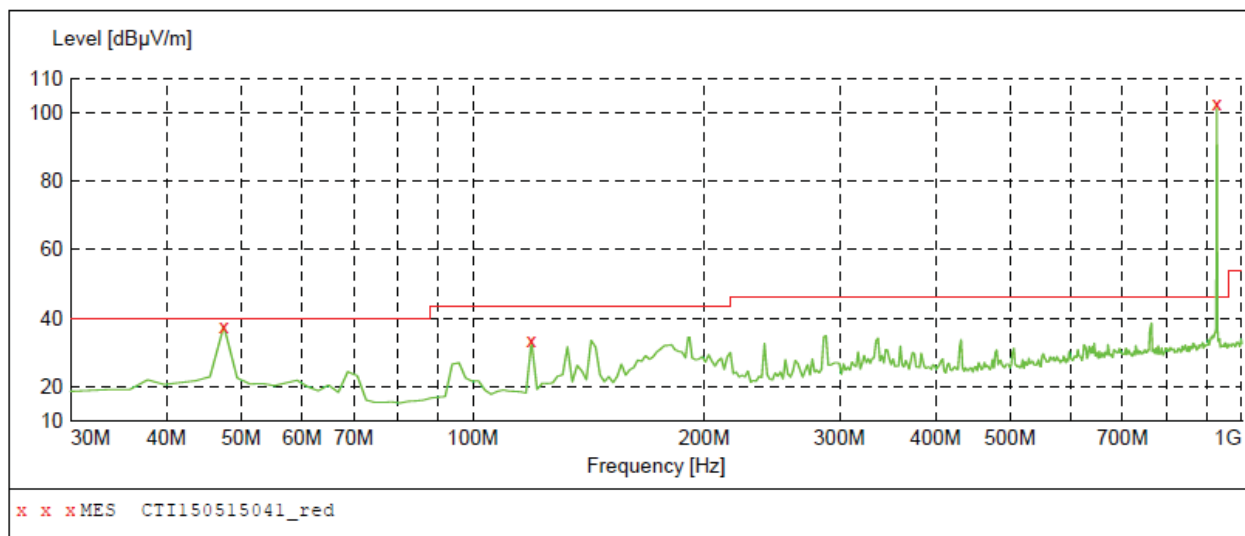
914.75MHz:

H:



Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
141.10	36.2	43.5	QP	H	P
193.20	37.3	43.5	QP	H	P
288.00	40.1	46	QP	H	P
430.20	40.9	46	QP	H	P
480.00	41.0	46	QP	H	P
914.75	102.1	--	PK	H	--

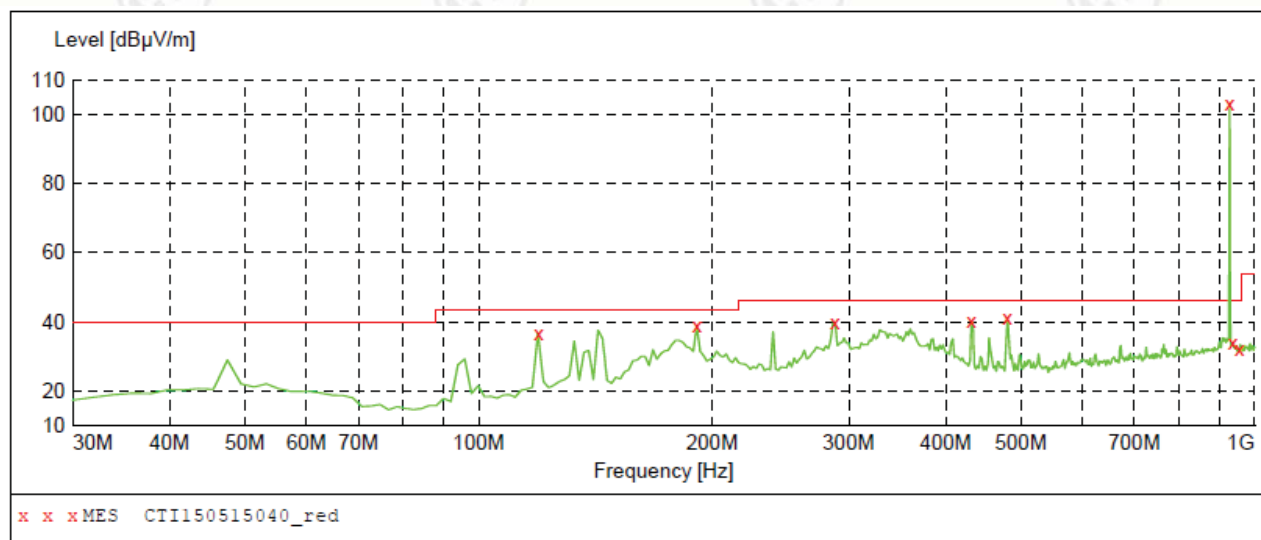
V:



Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
47.60	36.9	40	QP	V	P
119.8	32.8	43.5	QP	V	P
914.75	103.1	--	PK	V	--

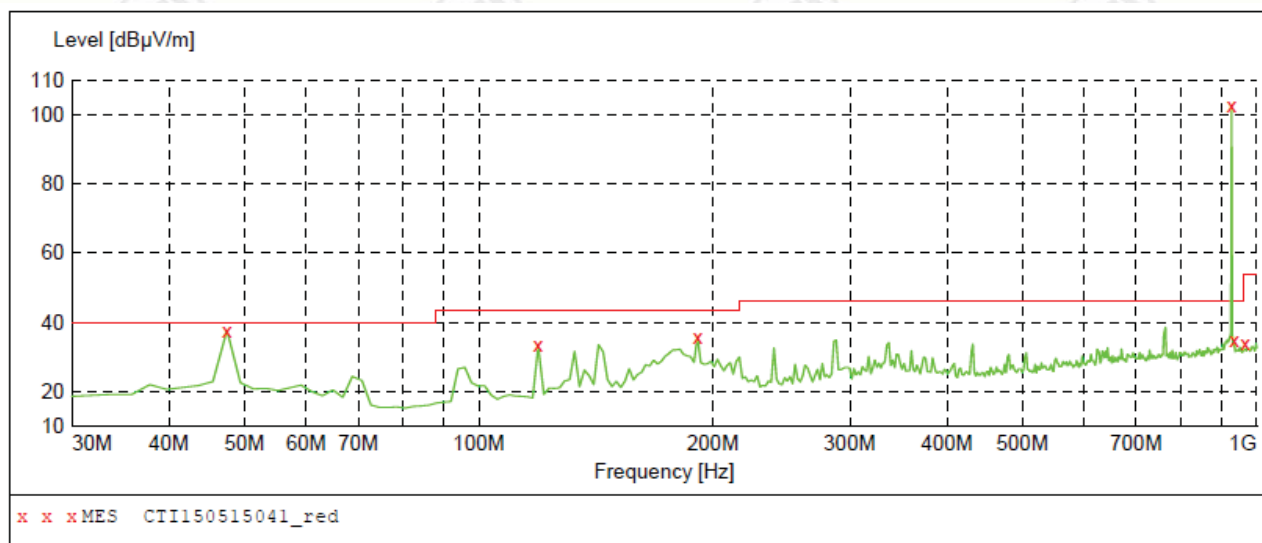
927.25MHz:

H:



Frequency (MHz)	Measurement (dBμV/m)	Limit (dBμV/m)	Detector Type	Antenna (H/V)	Result (P/F)
103.50	36.9	43.5	QP	H	P
190.10	38.7	43.5	QP	H	P
288.00	39.2	46	QP	H	P
430.20	41.2	46	QP	H	P
480.00	41.0	46	QP	H	P
927.25	101.9	--	PK	H	--
928.00	30.3	46	QP	H	P
960.00	30.2	46	QP	H	P

V:



Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
47.50	37.5	40	QP	V	P
119.20	34.2	43.5	QP	V	P
190.9	35.7	43.5	QP	V	P
927.25	103.1	--	PK	V	--
928.00	30.4	46	QP	V	P
960.00	30.1	46	QP	V	P

C. 1GHz ~ 10GHz:

The test data of low channel, middle channel and high channel are almost same in frequency bands 1GHz to 10GHz, and the worst data are chosen as representative in below:

Test Results-(Measurement Distance: 3m)_Channel low_902.75MHz:

Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
1805.50	40.56	74	PK	H	P
2708.25	47.17	74	PK	H	P
1805.50	38.89	74	PK	V	P
2708.25	42.16	74	PK	V	P

Test Results-(Measurement Distance: 3m)_Channel low_914.75MHz:

Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
1829.50	41.09	74	PK	H	P
2744.25	46.23	74	PK	H	P
1829.50	38.12	74	PK	V	P
2744.25	42.98	74	PK	V	P

Test Results-(Measurement Distance: 3m)_Channel low_927.25MHz:

Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
1854.50	39.87	74	PK	H	P
2781.75	46.11	74	PK	H	P
1854.50	38.08	74	PK	V	P
2781.75	42.18	74	PK	V	P

Remark:

1. The above tables show that the frequencies peak data are all below the average limit, so the average data of these frequencies are deems to fulfill the average limits and not reported.
2. All outside of operating frequency band and restricted band specified are below 15.209.

15. AC CONDUCTED EMISSION TEST

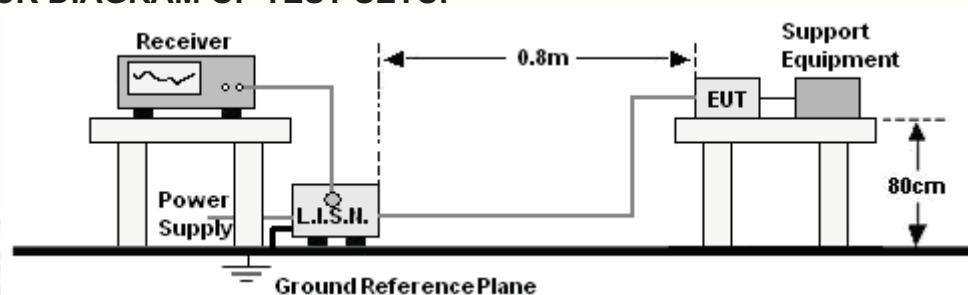
15.1. LIMITS

Limits for Class B digital devices

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

15.2. BLOCK DIAGRAM OF TEST SETUP



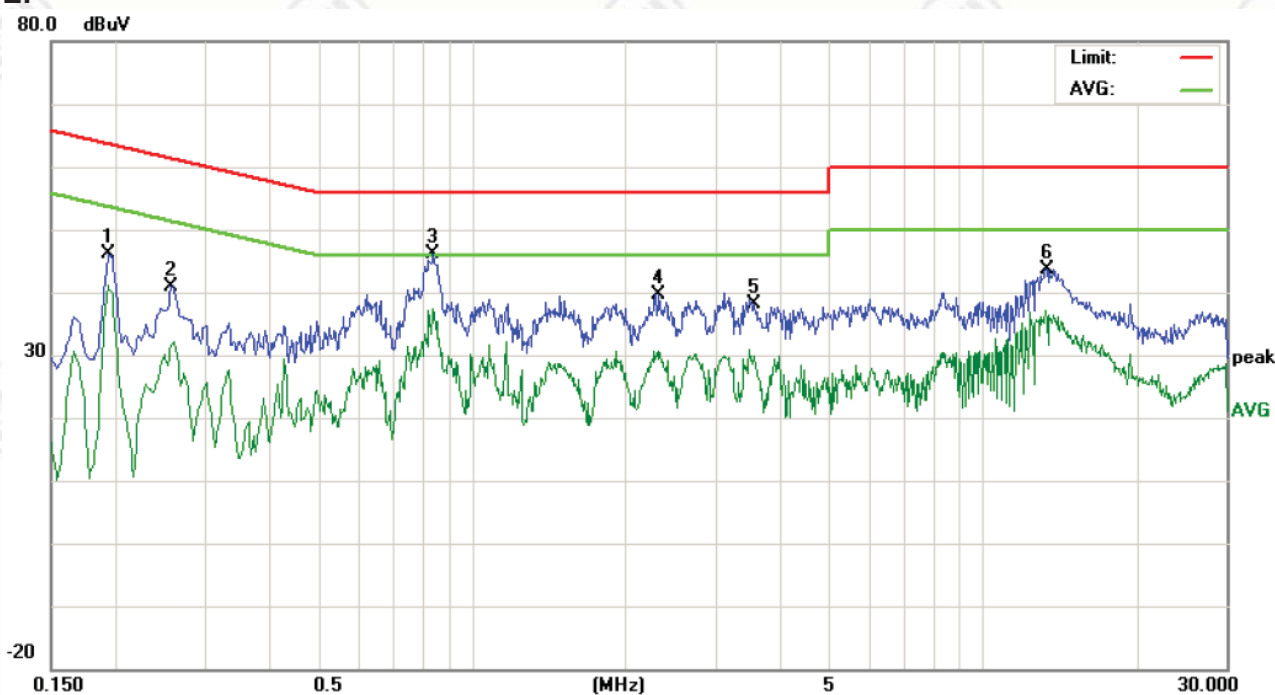
15.3. PROCEDURE OF CONDUCTED EMISSION TEST

- The Product was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

15.4. GRAPHS AND DATA

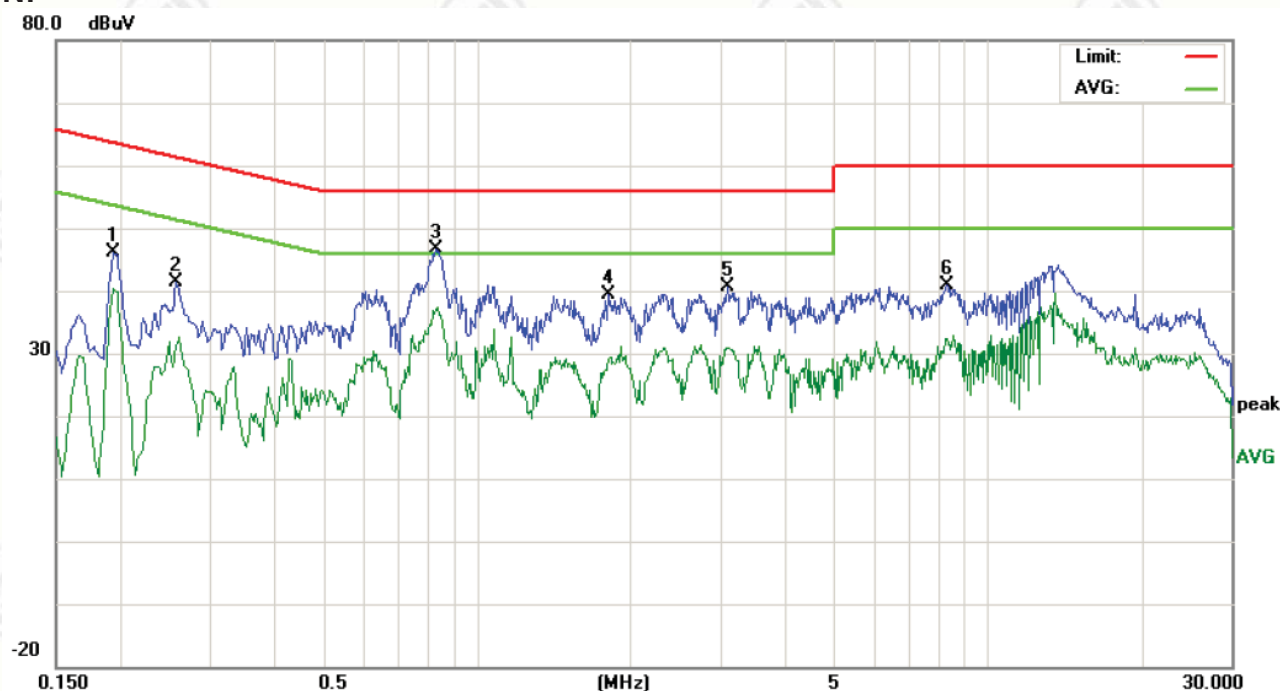
Product : Embedded UHF Module M900 **Model/Type reference** : OEM-UHF-M900
Power : AC 120V, 60Hz **Temperature** : 21℃
Mode : Keeping TX **Humidity** : 52%

L:



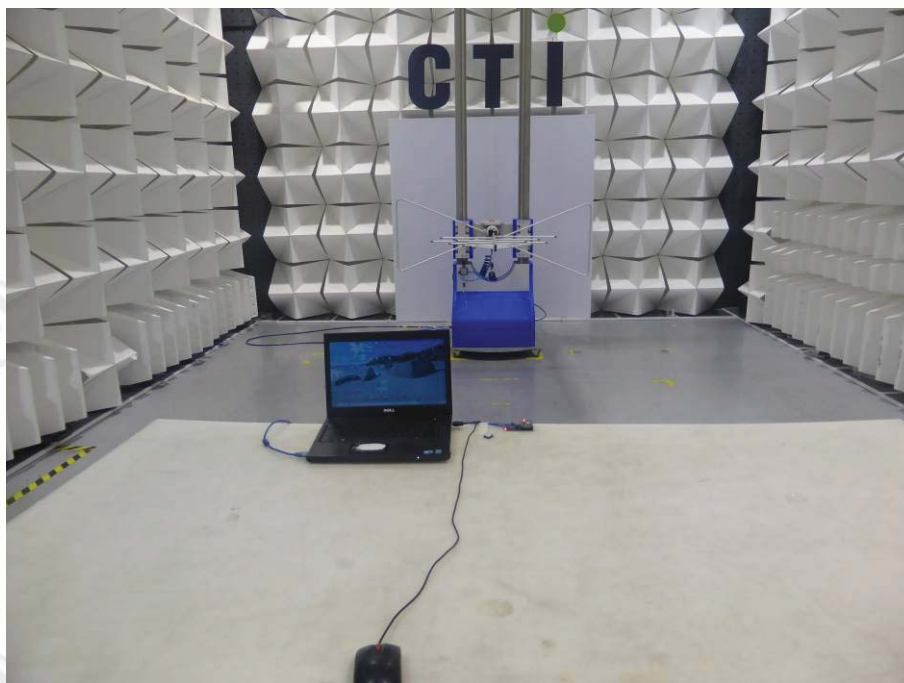
No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1940	36.19		31.21	9.90	46.09		41.11	63.86	53.86	-17.77	-12.75	P	
2	0.2580	31.01		21.77	9.90	40.91		31.67	61.49	51.49	-20.58	-19.82	P	
3	0.8420	36.29		27.60	9.90	46.19		37.50	56.00	46.00	-9.81	-8.50	P	
4	2.3300	29.68		20.69	9.90	39.58		30.59	56.00	46.00	-16.42	-15.41	P	
5	3.5780	19.66		6.19	9.90	29.56		16.09	56.00	46.00	-26.44	-29.91	P	
6	13.4060	33.67		25.81	9.93	43.60		35.74	60.00	50.00	-16.40	-14.26	P	

N:

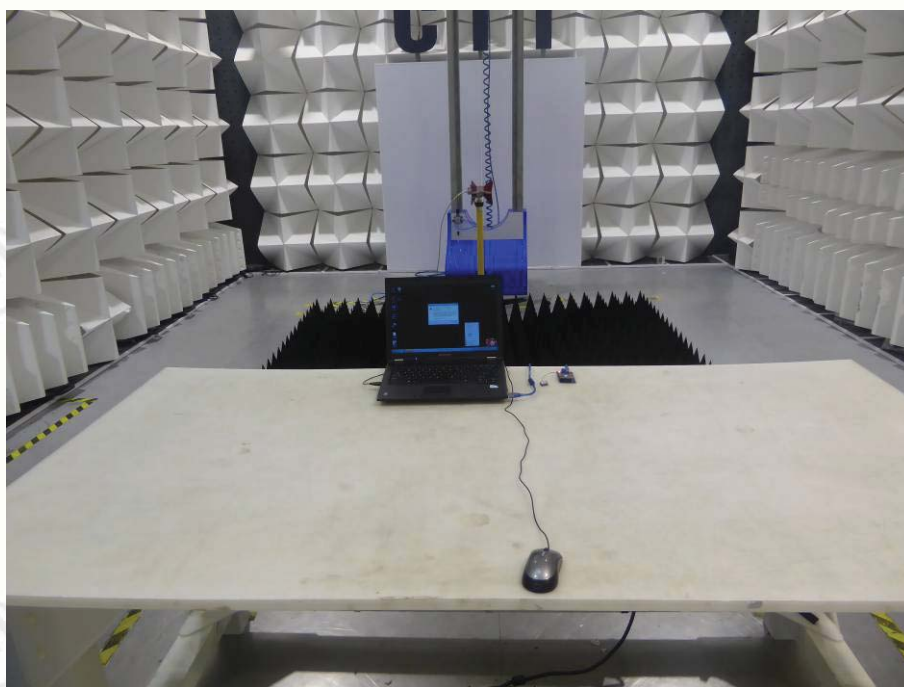


No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1940	36.14		30.54	9.90	46.04		40.44	63.86	53.86	-17.82	-13.42	P	
2	0.2580	31.36		21.12	9.90	41.26		31.02	61.49	51.49	-20.23	-20.47	P	
3	0.8340	36.73		27.17	9.90	46.63		37.07	56.00	46.00	-9.37	-8.93	P	
4	1.8140	29.38		19.24	9.90	39.28		29.14	56.00	46.00	-16.72	-16.86	P	
5	3.0980	30.85		21.05	9.90	40.75		30.95	56.00	46.00	-15.25	-15.05	P	
6	8.3260	31.00		22.55	9.94	40.94		32.49	60.00	50.00	-19.06	-17.51	P	

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP



TEST SETUP OF RADIATED EMISSION (30MHz-1GHz)



TEST SETUP OF RADIATED EMISSION (above 1GHz)



TEST SETUP OF CONDUCTED EMISSION

APPENDIX 2 PHOTOGRAPHS OF PRODUCT

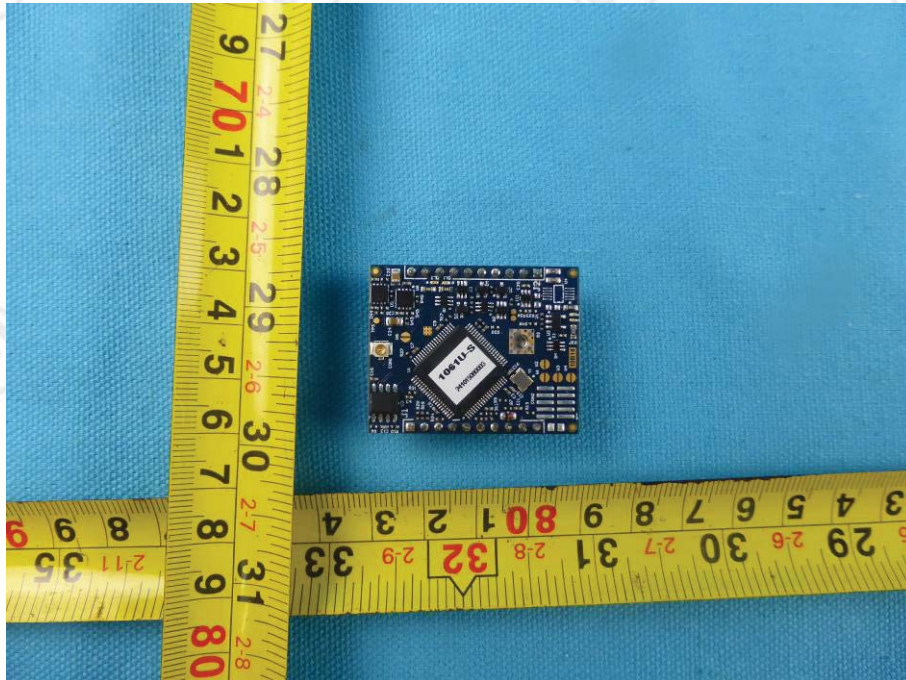


Fig.1- View of EUT-1

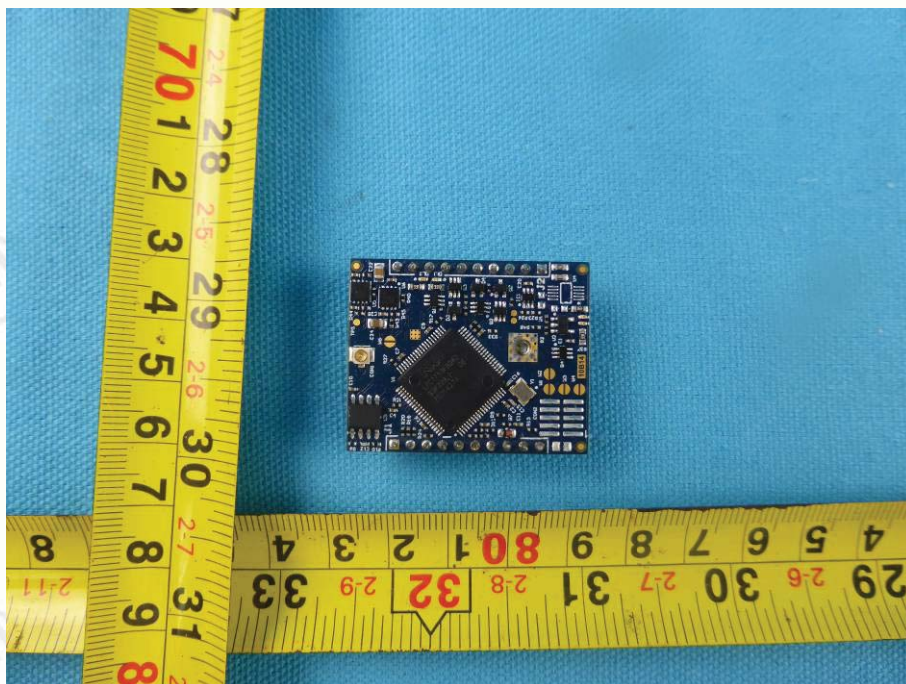


Fig.2- View of EUT-2

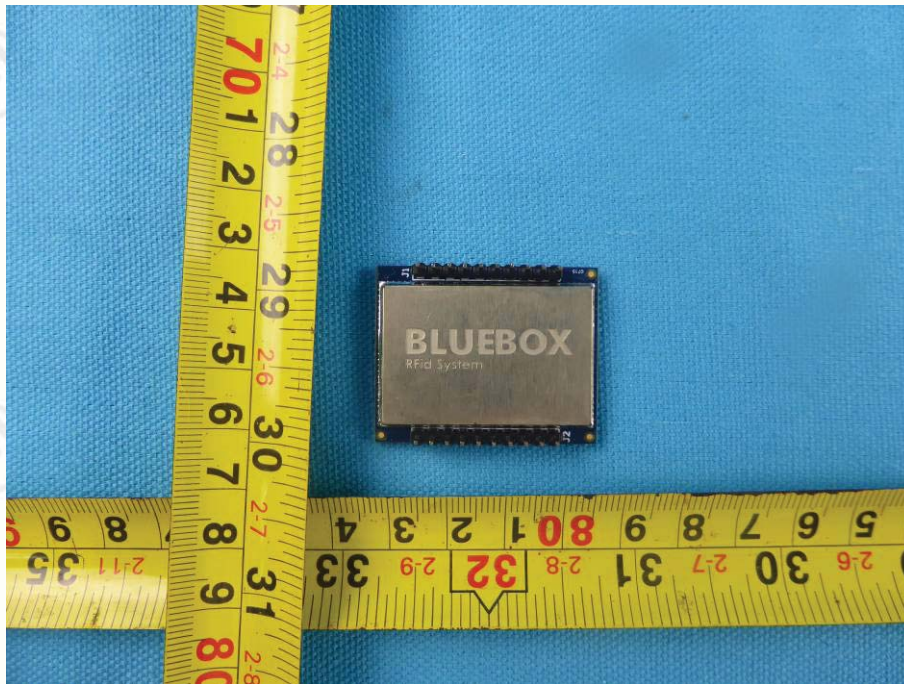


Fig.3- View of EUT-3

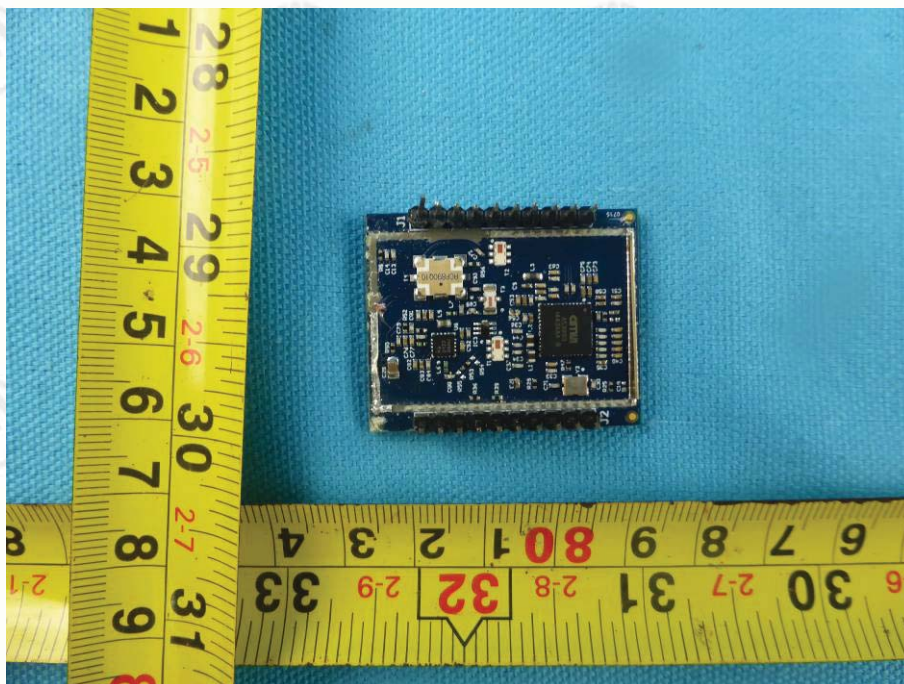


Fig.4- View of EUT-4

*** End of Report ***

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