



REPORT No.: SZ15100076W05

FCC RF TEST REPORT

APPLICANT : FXT Technology Co., Limited
PRODUCT NAME : 5.8G AV Transmitter
MODEL NAME : FX795T-2, FX795T-6
TRADE NAME : FXT
BRAND NAME : FXT
FCC ID : 2AGB8-001
STANDARD(S) : 47 CFR Part 15 Subpart C
ISSUE DATE : 2015-12-10



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2015-12-10	First edition

**TEST REPORT DECLARATION**

Applicant	FXT Technology Co.,Limited
Applicant Address	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Manufacturer	FXT Technology Co.,Limited
Manufacturer Address	Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Product Name	5.8G AV Transmitter
Model Name	FX795T-2, FX795T-6
Brand Name	FXT
HW Version	FX795T REV(V1.0) FX795-92 REV(V1.0)
SW Version	N.A
Test Standards	47 CFR Part 15 Subpart C
Test Date	2015-11-25 to 2015-12-10
Test Result	PASS

Tested by : Zou Jian
Zou Jian(Test Engineer)

Reviewed by : Qiu Xiaojun
Qiu Xiaojun(RF Manager)

Approved by : Zeng Dexin
Zeng Dexin(Chief Engineer)



1. TECHNICAL INFORMATION

Note: Provide by applicant.

1.1 EUT Description

EUT Type	5.8G AV Transmitter
Serial No.	(n.a, marked #1 by test site)
Hardware Version ...	FX795T REV(V1.0) FX795-92 REV(V1.0)
Software Version	N/A
Applicant	FXT Technology Co.,Limited Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Manufacturer	FXT Technology Co.,Limited Room1023, Tongsheng Technology building, Huahui Road, Shanghenglang, Dalang,Longhua District, Shenzhen, China
Frequency Range ...	5.725GHz – 5.875GHz
Channel Number	26(See Note1)
Channel Spacing:	Band F & Band A:20MHz; Band R & Band B:19MHz;
Modulation Type	FM
Antenna Type	PCB Antenna
Antenna Gain	White antenna :2.0dBi Black antenna :2.0dBi

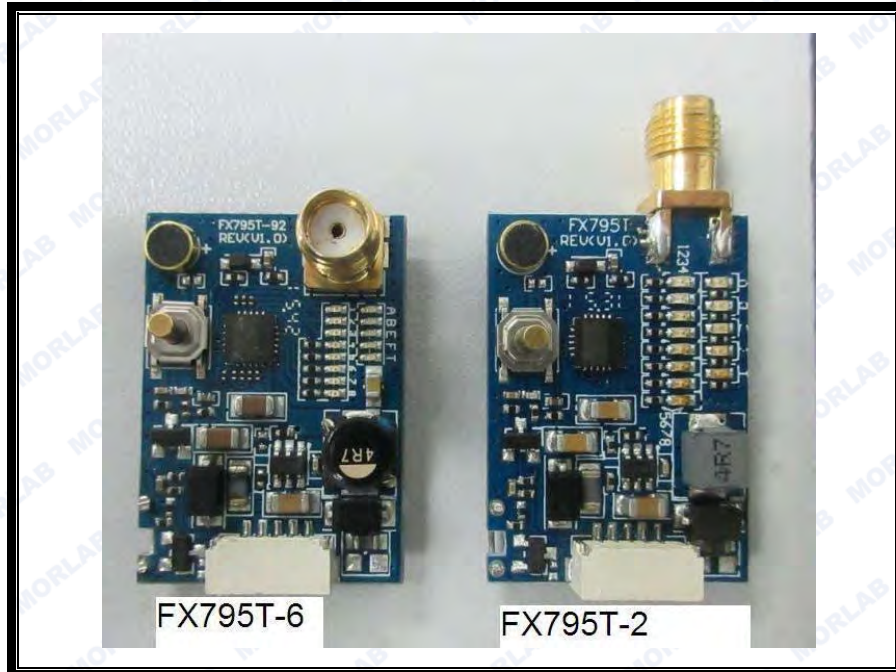
NOTE:

- The EUT is a 5.8G Monitor. It is working at the 5.8GHz ISM band, The detail about the module supports band is as follows. For all Bands, the channel 5733MHz, 5790MHz and 5866MHz were selected for test

FR \ CH	CH							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
FR1/Band F	5740	5760	5780	5800	5820	5840	5860	-
FR3/Band A	5865	5845	5825	5805	5785	5765	5745	-
FR4/Band R	-	-	5732	5769	5806	5843	-	-
FR5/Band B	5733	5752	5771	5790	5809	5828	5847	5866

- For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer
- There are two types of EUT, only the antennal connector location is different between each other. Both two models of EUT can use two types of antennal, The two types of antennal are

named "White antennal" and "Black antennal", in this report just recorded the worst test data of the model named 799T.the two models' appearance as shown below.



1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:



1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-13 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Result
1	15.203	Antenna Requirement	N.A	<u>PASS</u>
2	15.215	Bandwidth	Dec 08, 2015	<u>PASS</u>
3	15.249(a)	Field strength	Dec 10, 2015	<u>PASS</u>
4	15.249(d)	Band edge	Dec 10, 2015	<u>PASS</u>
5	15.209 ,15.249(a)	Radiated Emission and field strength of harmonics	Dec 10, 2015	<u>PASS</u>

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v03r03 (09/06/2015).

1.2.1 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR PART 15C REQUIREMENTS

2.1 Antenna requirement

2.1.1 Applicable Standard

According to FCC 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.

2.1.2 Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

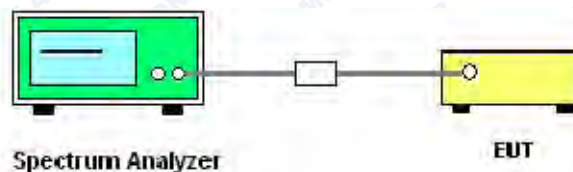
2.2 Bandwidth

2.2.1 Requirement

None; for reporting purpose only.

2.2.2 Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

KDB 558074 Section 8.1 Option 1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).



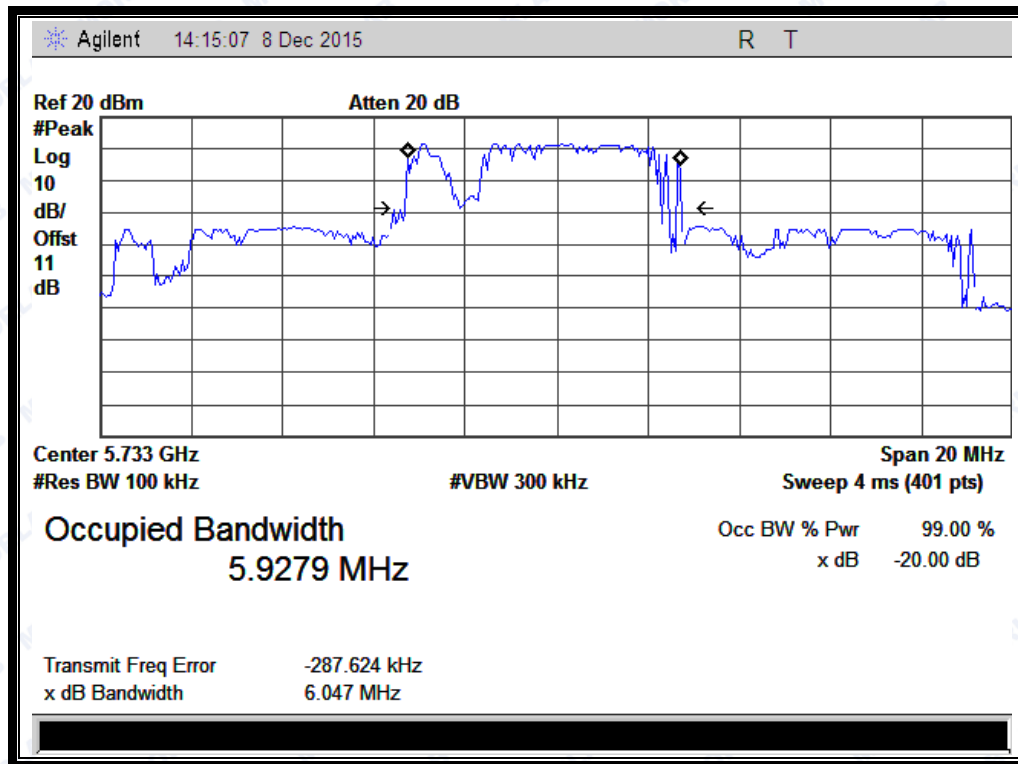
2.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 20dB bandwidth of the Module.

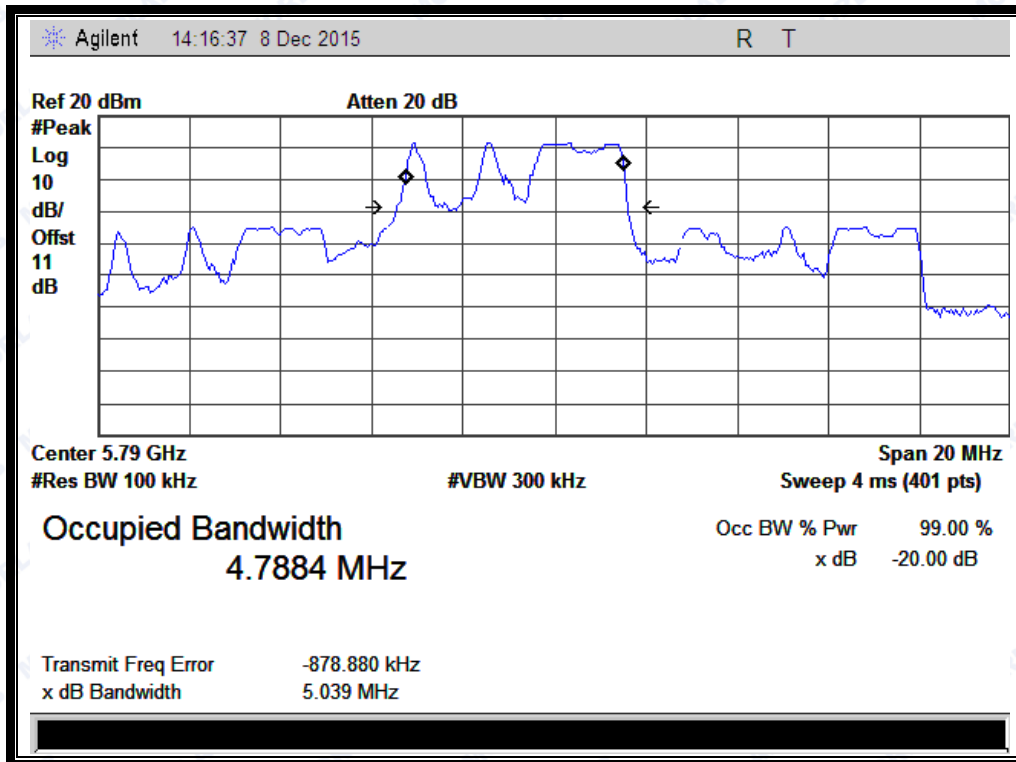
A. Test Verdict:

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	Refer Plot
Lowest	5733	6.047	Plot A
Middle	5790	5.039	Plot B
Highest	5866	5.628	Plot C

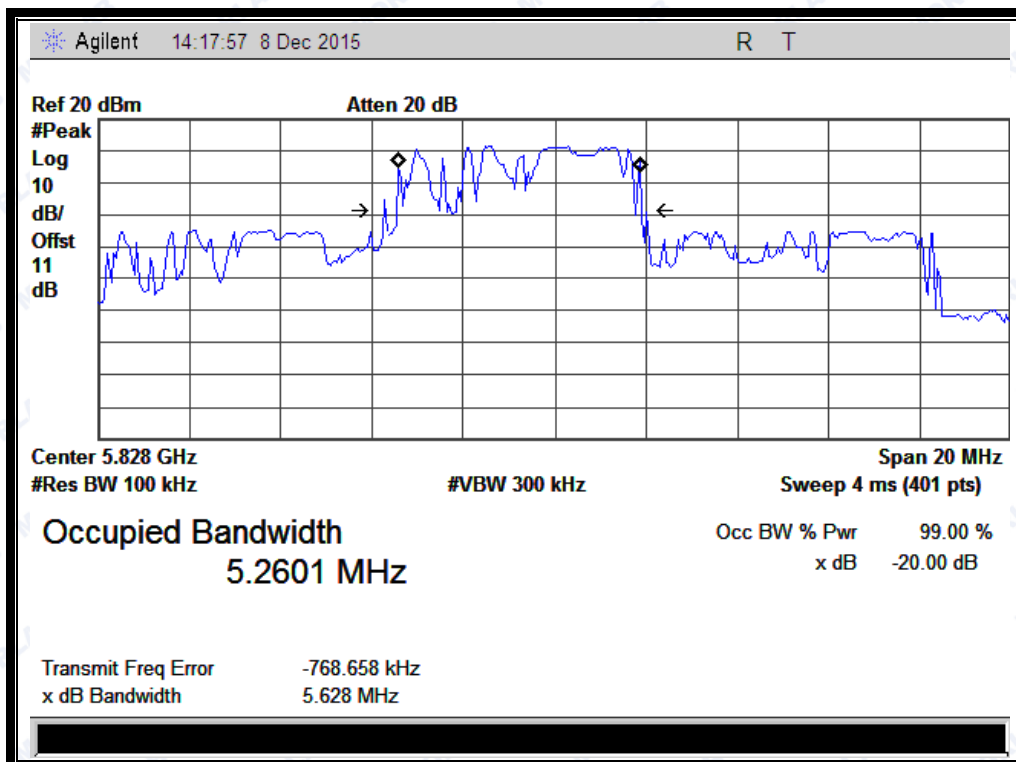
B. Test Plots



(Plot A@ Lowest Channel: 5733MHz)



(Plot B@ Middle Channel : 5790 MHz)



(Plot C@ Highest Channel: 5866MHz)

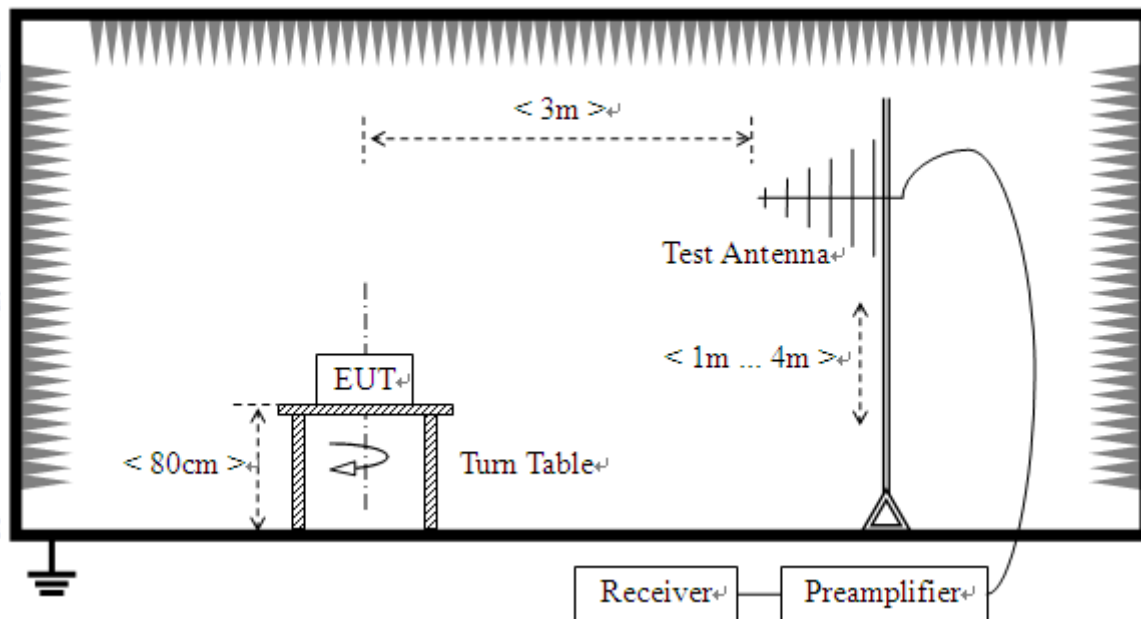
2.3 Band edge

2.3.1 Requirement

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation..

2.3.2 Test Description

A. Test Setup:



The EUT is powered by the Battery. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and controlled by the software.

For the Test Antenna:

Horn Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

B. Equipments List:

Please reference ANNEX A(1.4).

2.3.3 Test Procedure

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 KHz for $f < 1\text{GHz}$

VBW = 3 MHz for peak and 10Hz for average

Sweep = auto

Detector function = peak



Trace = max hold
Allow the trace to stabilize.

2.3.4 Test Result

The lowest and highest channels are tested to verify the band edge emissions.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Pre-amplifier Gain

A_{Factor} : Antenna Factor at 3m

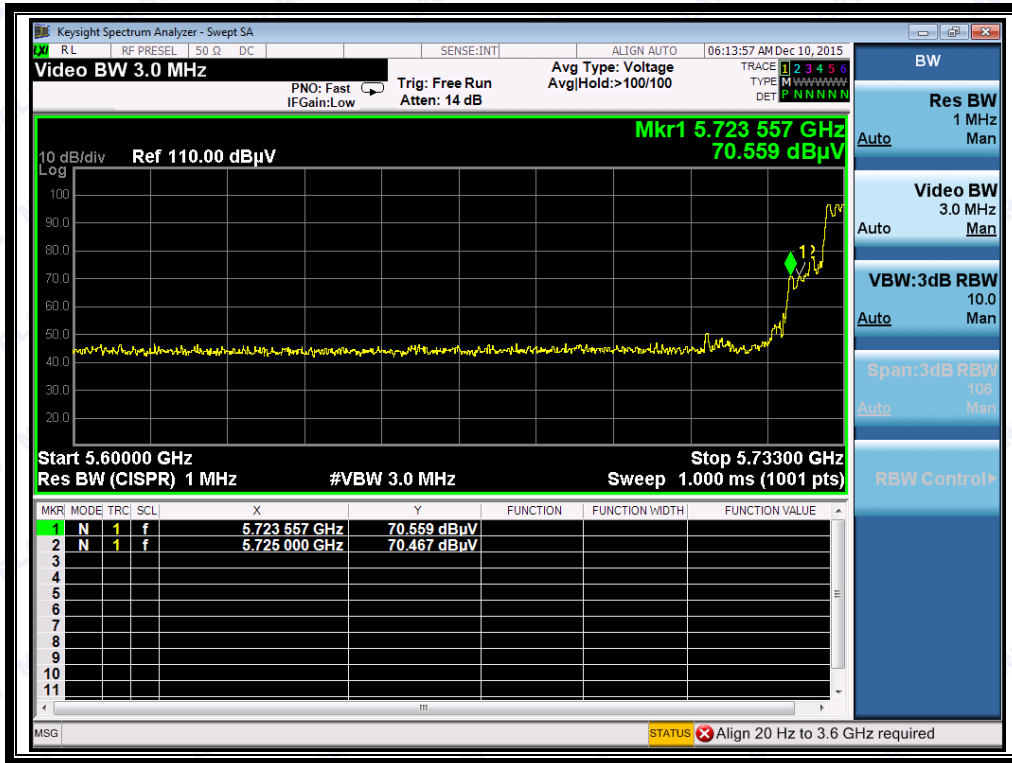
Note: Test were performed when antenna was at vertical and horizontal polarity, and only the worse test

condition (vertical) was recorded in this test report.

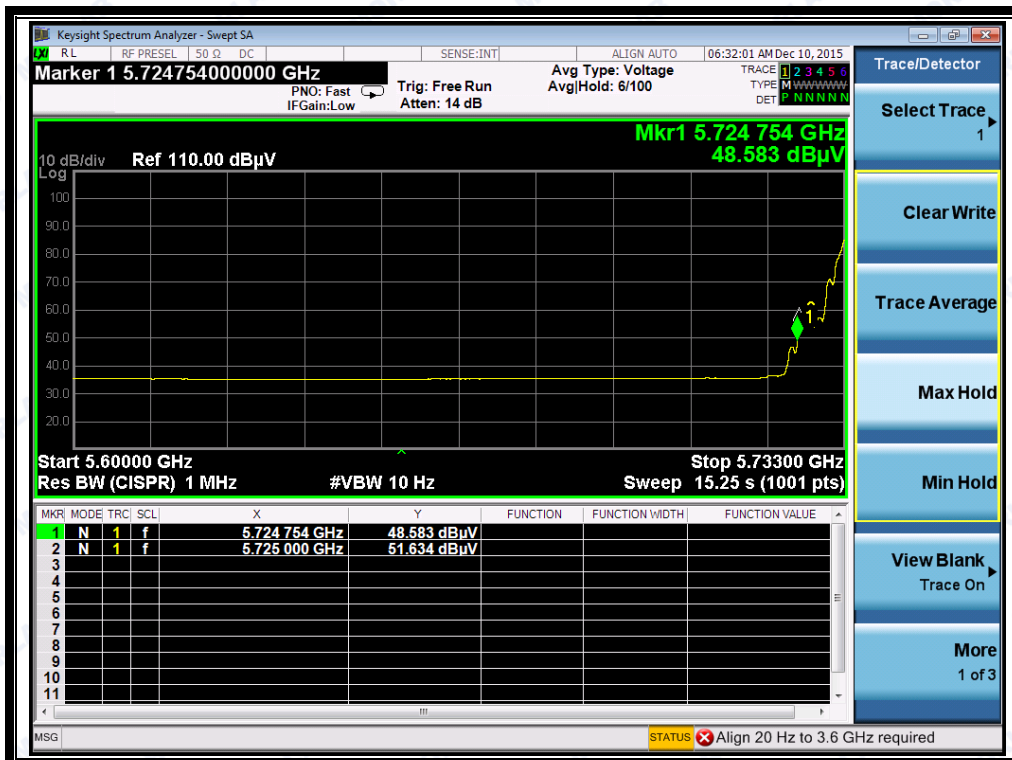
2.3.4.1 Test Verdict for White antenna:

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
Lowest	5733	PK	70.56	-33.63	32.56	69.49	74	Pass
	5733	AV	48.58	-33.63	32.56	47.51	54	Pass
Highest	5866	PK	67.80	-33.18	32.5	67.12	74	Pass
	5866	AV	49.96	-33.18	32.5	49.28	54	Pass

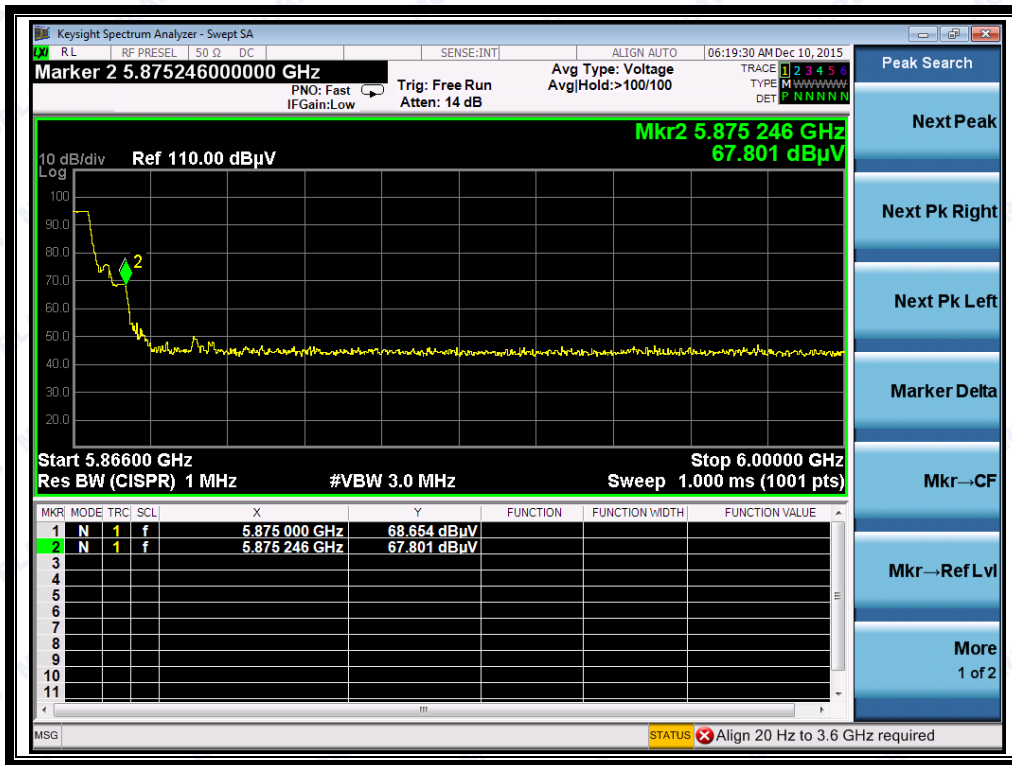
Test Plots:



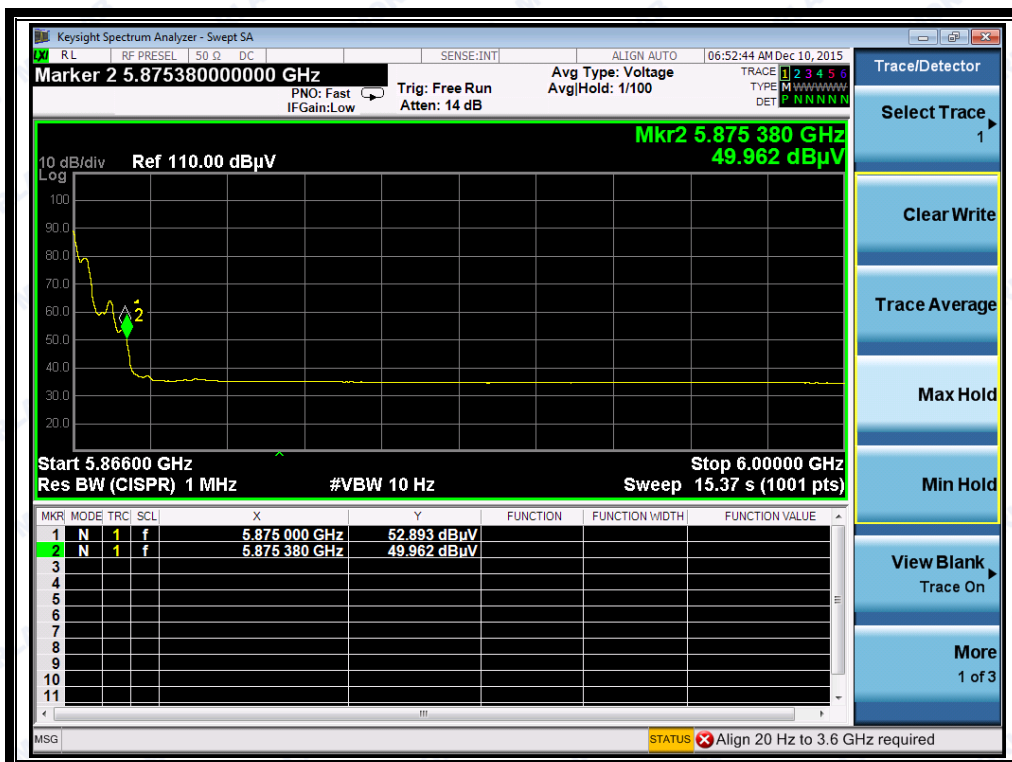
(Plot 1 PK @ Lowest Channel : 5733 MHz)



(Plot 1 AV @ Lowest Channel : 5733 MHz)



(Plot 5PK@ Highest Channel : 5866 MHz)



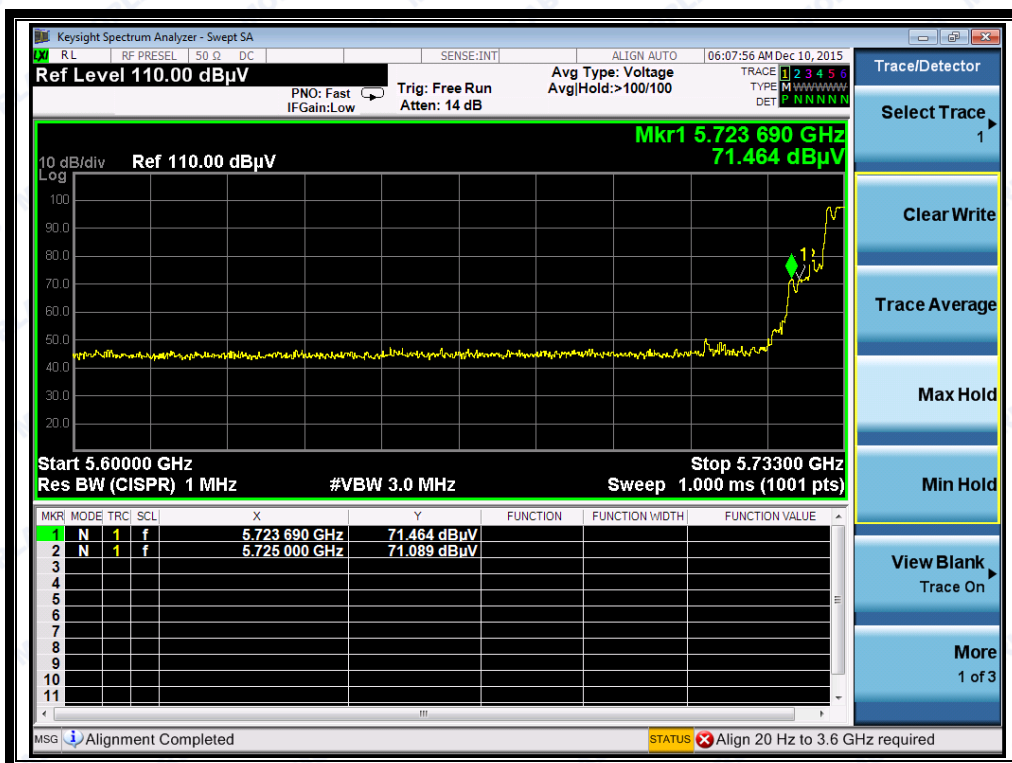
(Plot 5 AV@ Highest Channel : 5866 MHz)



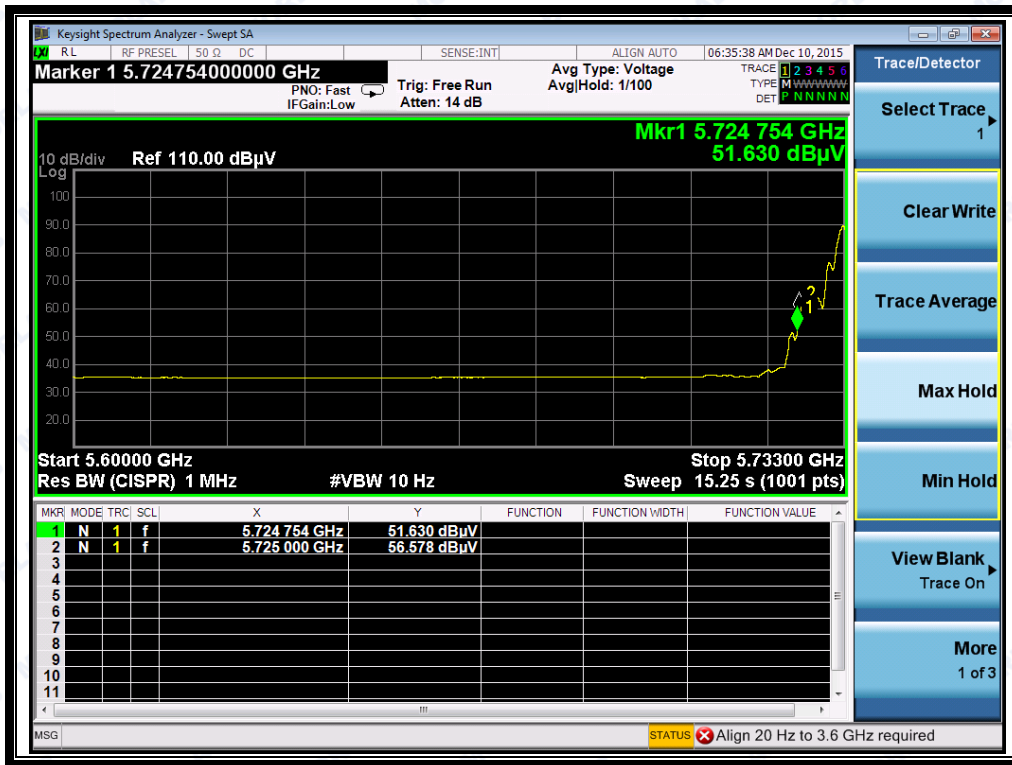
2.3.4.2 Test Verdict for Black antenna:

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBuV)					
Lowest	5733	PK	71.46	-33.63	32.56	70.39	74	Pass
	5733	AV	51.63	-33.63	32.56	50.56	54	Pass
Highest	5866	PK	70.56	-33.18	32.5	69.88	74	Pass
	5866	AV	50.78	-33.18	32.5	50.10	54	Pass

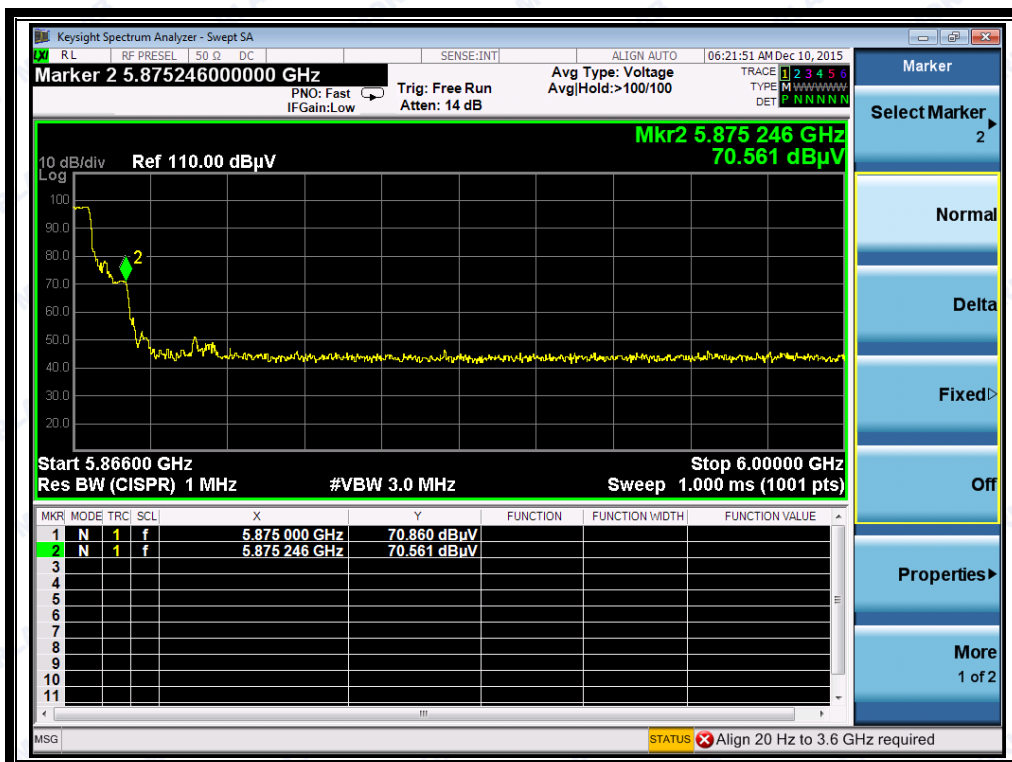
Test Plots:



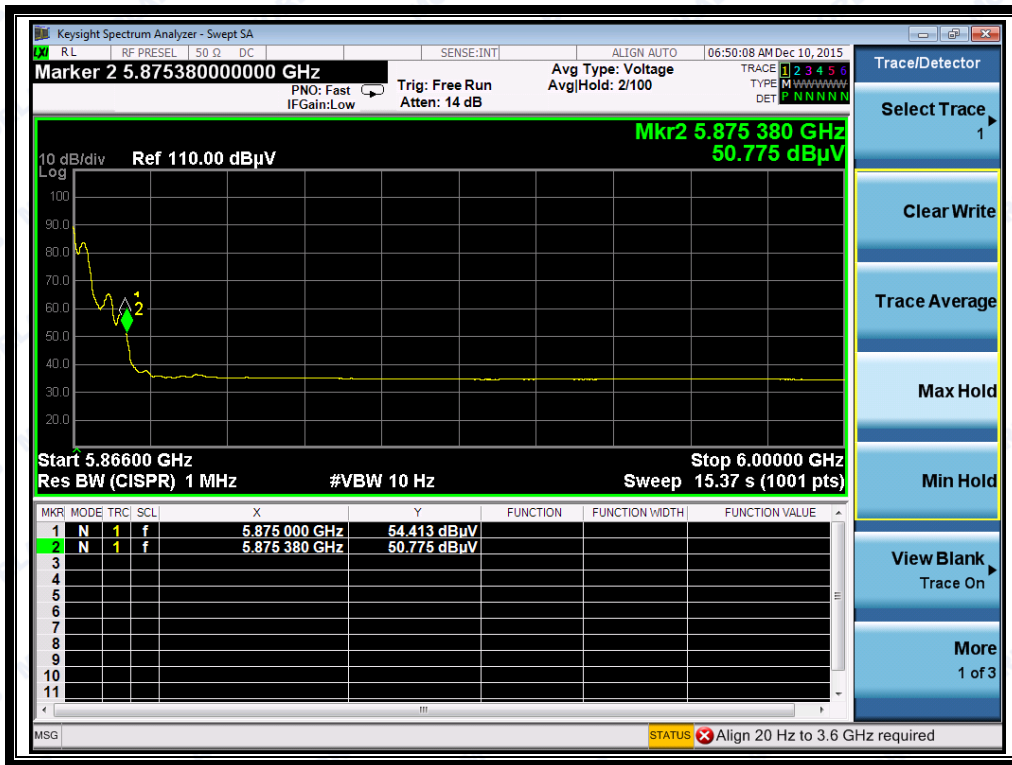
(Plot 1 PK @ Lowest Channel : 5733 MHz)



(Plot 1 AV @ Lowest Channel : 5733 MHz)



(Plot 5PK @ Highest Channel : 5866 MHz)



(Plot 5 AV@ Highest Channel : 5866 MHz)

2.4 Field strength of fundamental

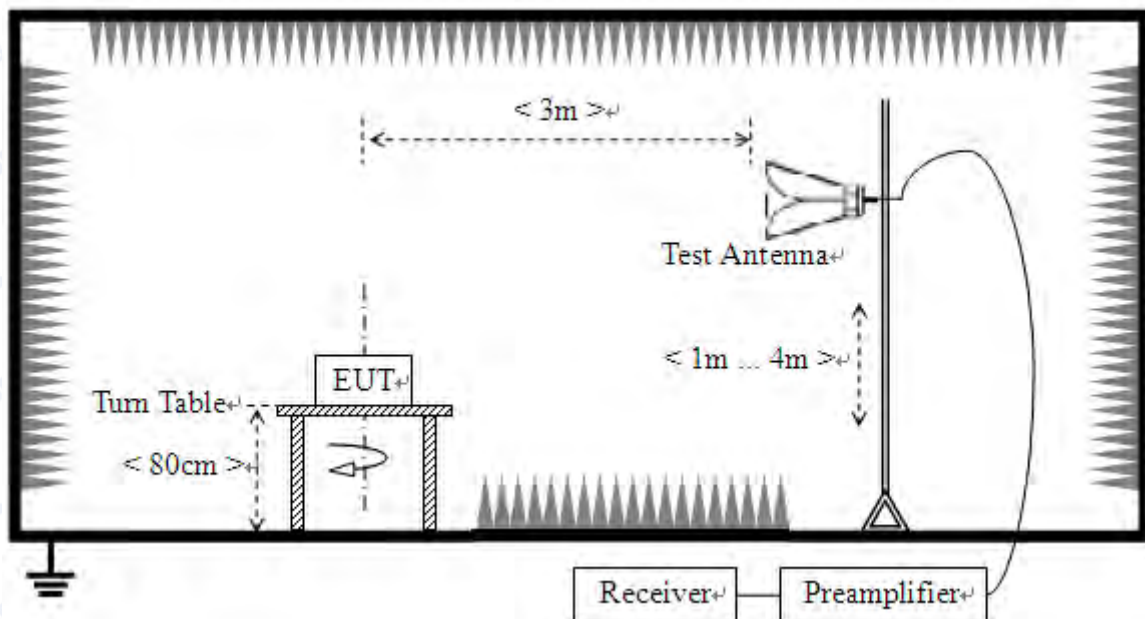
2.4.1 Requirement

According to FCC section 15.249(a), Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

2.4.2 Test Description

A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the



ground to determine the maximum value of the field strength.

KDB 558074 Section 12.1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.4).

2.1.1 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

2.1.2 Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report

2.1.2.1 Test Verdict for White antenna:

Channel	Frequency (MHz)	Detector	Max. Emission E (dB μ V/m)	Refer Plot	Limit (dB μ V/m)	Verdict
		PK/ AV				
Lowest	5733	PK	96.63	Plot1	114	Pass
		AV	79.32	Plot2	94	Pass
Middle	5790	PK	97.20	Plot3	114	Pass
		AV	82.06	Plot4	94	Pass
Highest	5866	PK	94.58	Plot5	114	Pass
		AV	80.75	Plot6	94	Pass



Test Plots:



(Plot 1 PK @ Lowest Channel : 5733 MHz)



(Plot 2 AV @ Lowest Channel : 5733 MHz)



(Plot 3 PK@ Middle Channel : 5790 MHz)



(Plot 4 AV@ Middle Channel : 5790 MHz)



(Plot 5PK @ Highest Channel : 5866 MHz)



(Plot 6 AV @ Highest Channel : 5866 MHz)



2.1.2.2 Test Verdict for Black antenna:

Channel	Frequency (MHz)	Detector	Max. Emission E (dBμV/m)	Refer Plot	Limit (dBμV/m)	Verdict
		PK/ AV				
Lowest	5733	PK	97.81	Plot1	114	Pass
		AV	82.11	Plot2	94	Pass
Middle	5790	PK	98.56	Plot3	114	Pass
		AV	84.53	Plot4	94	Pass
Highest	5866	PK	97.02	Plot5	114	Pass
		AV	82.63	Plot6	94	Pass

Test Plots:



(Plot 1 PK @ Lowest Channel : 5733 MHz)



(Plot 2 AV @ Lowest Channel : 5733 MHz)



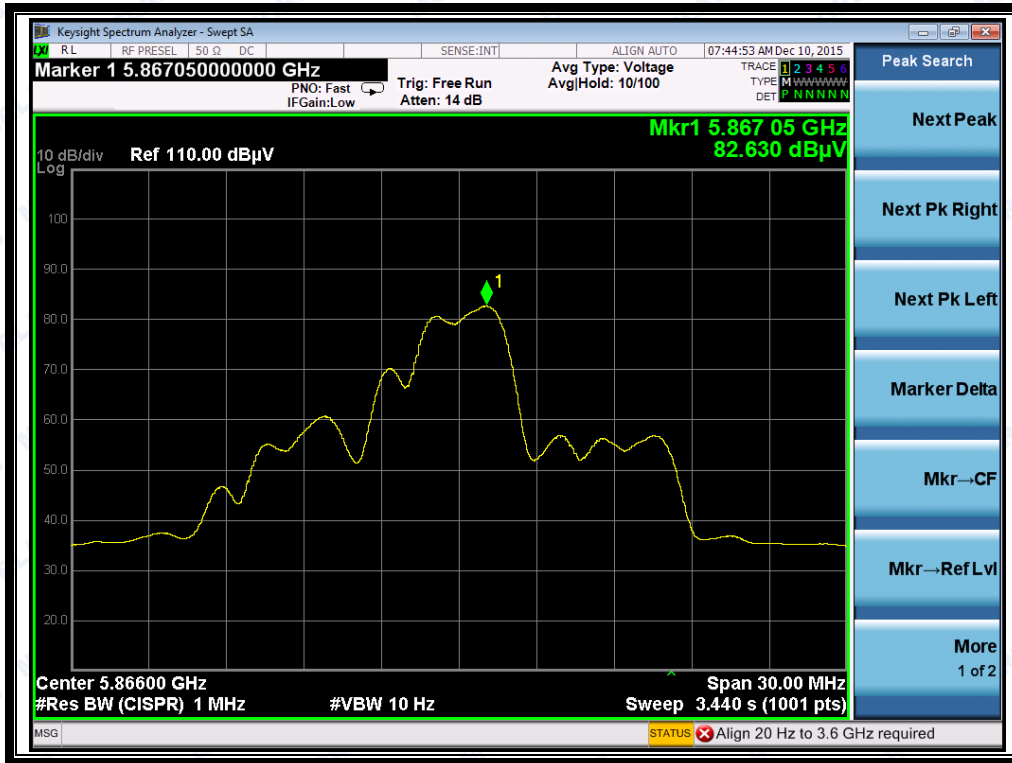
(Plot 3 PK@ Middle Channel : 5790 MHz)



(Plot 4 AV@ Middle Channel : 5790 MHz)



(Plot 5PK@ Highest Channel : 5866 MHz)



(Plot 6 AV @ Highest Channel : 5866 MHz)



2.2 Radiated Emission and field strength of harmonics

2.4.1 Requirement

According to section 15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

According to section 15.249(d), Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)	Field Strength Limitation at 3m Measurement Dist	
			($\mu\text{V}/\text{m}$)	(dBuV/m)
0.009 - 0.490	$2400/F(\text{kHz})$	300	$10000^* \frac{2400}{F(\text{kHz})}$	$20\log 2400/F(\text{kHz}) + 80$
0.490 - 1.705	$24000/F(\text{kHz})$	30	$100^* \frac{2400}{F(\text{kHz})}$	$20\log 2400/F(\text{kHz}) + 40$
1.705 - 30.0	30	30	100^*30	$20\log 30 + 40$
30 - 88	100	3	100	$20\log 100$
88 - 216	150	3	150	$20\log 150$
216 - 960	200	3	200	$20\log 200$
Above 960	500	3	500	$20\log 500$

According to section 15.249(e), for frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed in dBuV/m is calculated by $20\log$ Emission Level($\mu\text{V}/\text{m}$).
- 3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d_2/d_1)^2$.

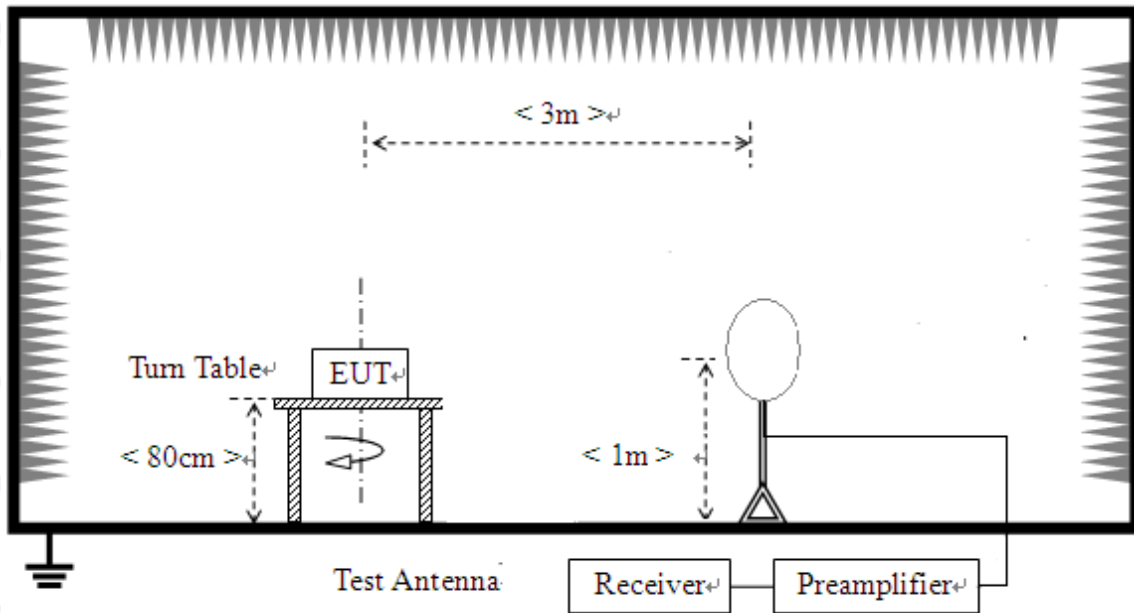
Example: F.S Limit at 30m distance is $30\mu\text{V}/\text{m}$, then F.S Limitation at 3m distance is adjusted as

$$L_{d1} = L_1 = 30\mu\text{V}/\text{m} * (10)^2 = 100 * 30\mu\text{V}/\text{m}$$

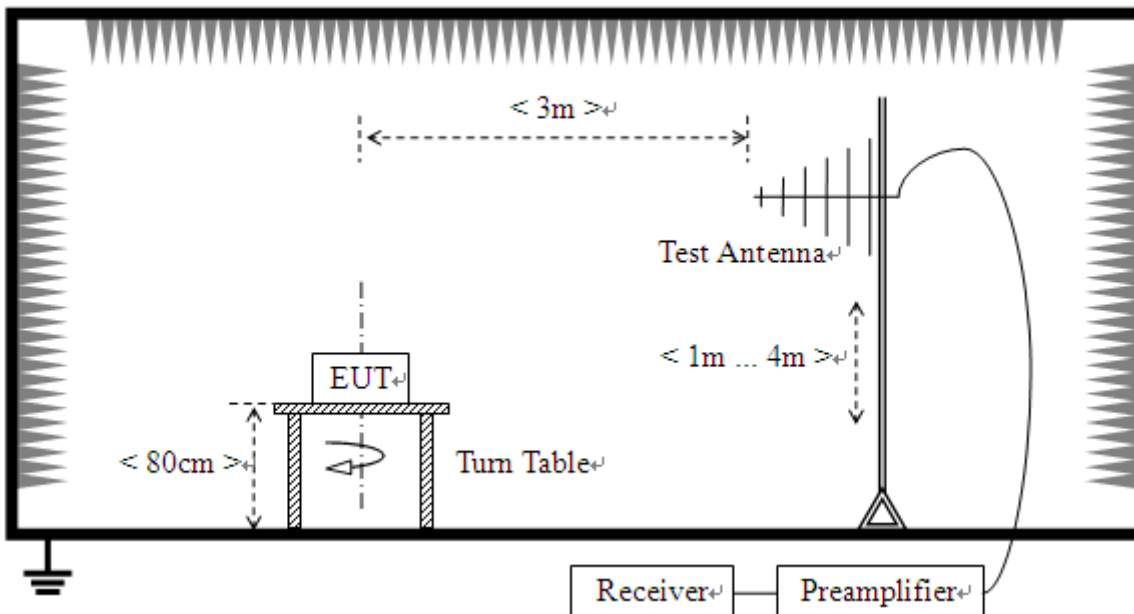
2.4.2 Test Description

A. Test Setup:

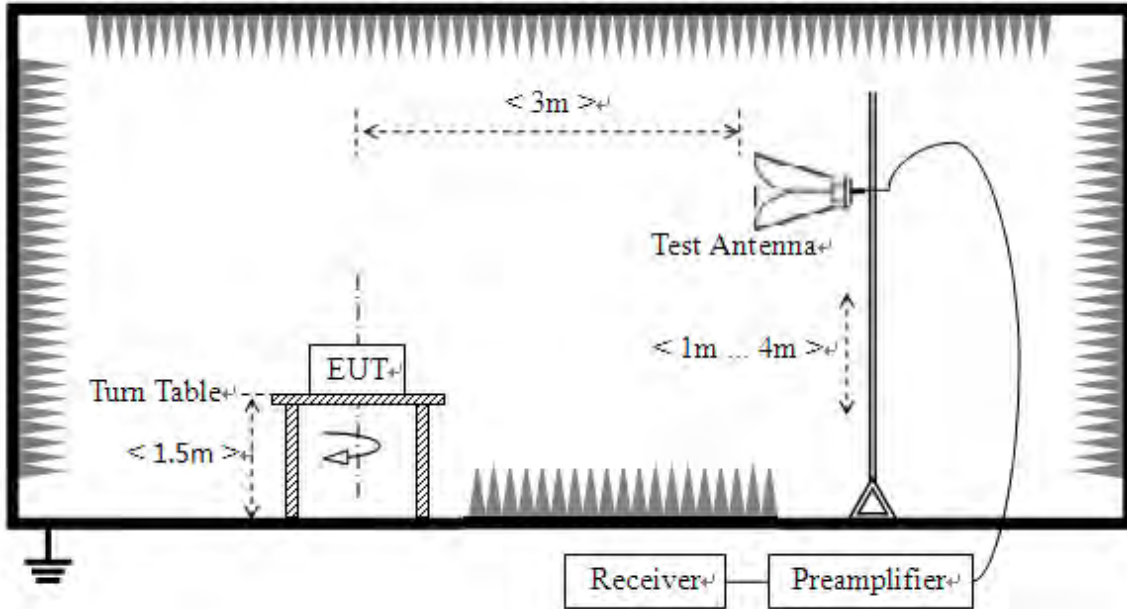
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

B. Equipments List:

Please reference ANNEX A(1.4).



2.4.3 Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V}/\text{m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

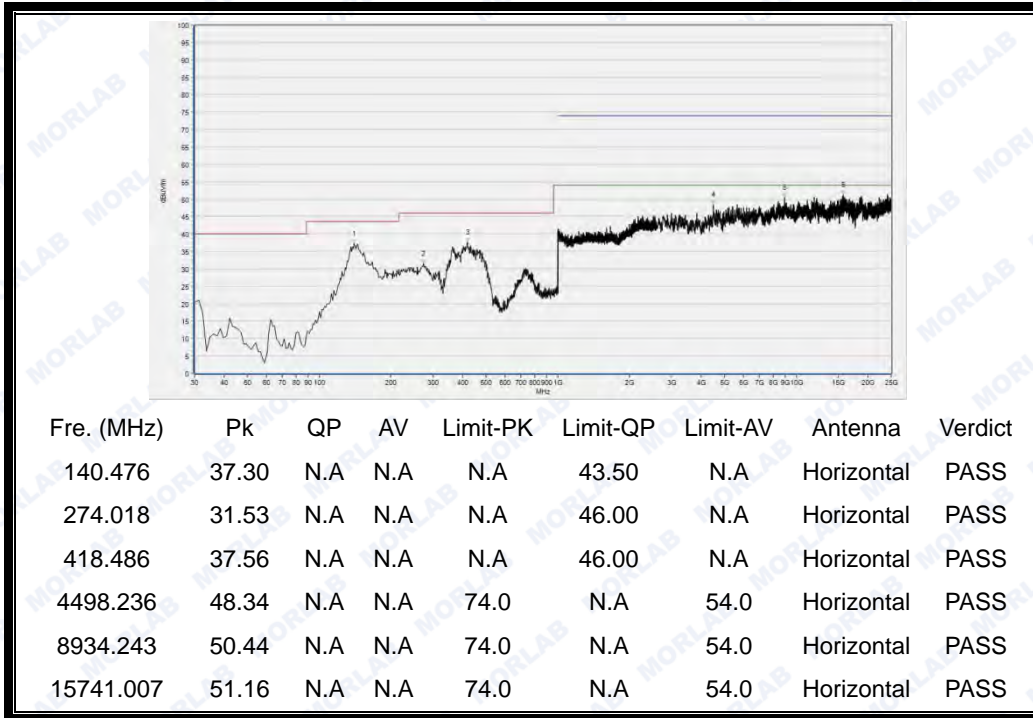
The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

2.4.3.1 White antenna

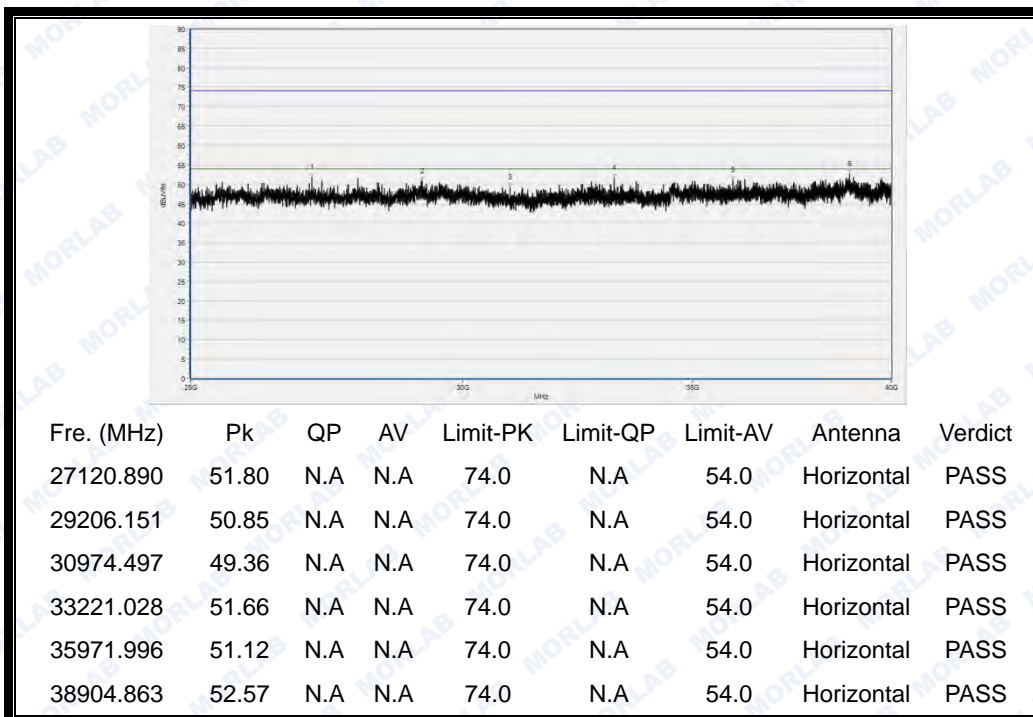
Note: Test Plots for the Whole Measurement Frequency Range:



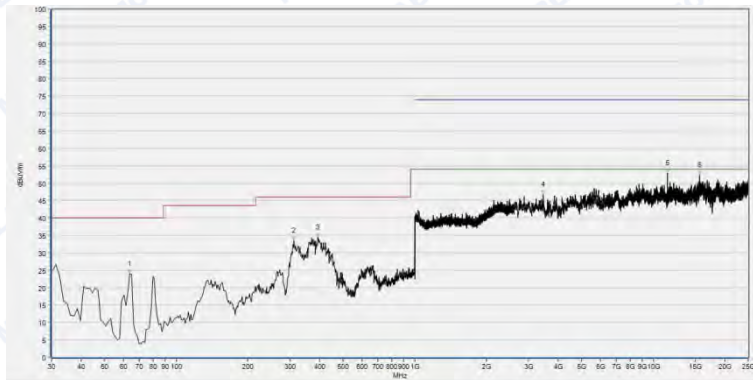
Plot for lowest Channel = 5733



(Antenna Horizontal, 30MHz to 25GHz)

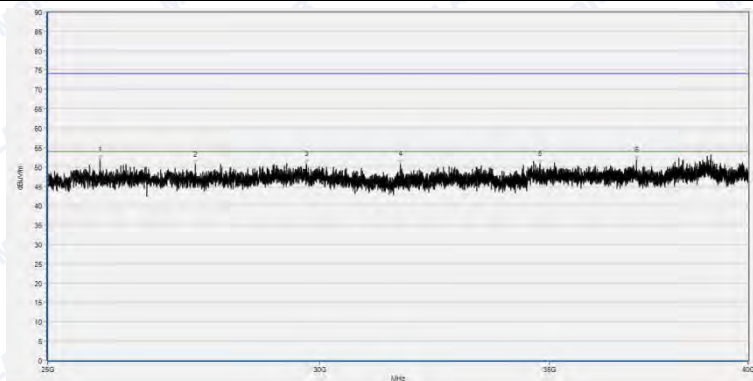


(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
63.992	23.98	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
311.652	33.61	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
392.991	34.43	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
3459.502	46.71	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
11466.940	52.89	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15647.318	52.33	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

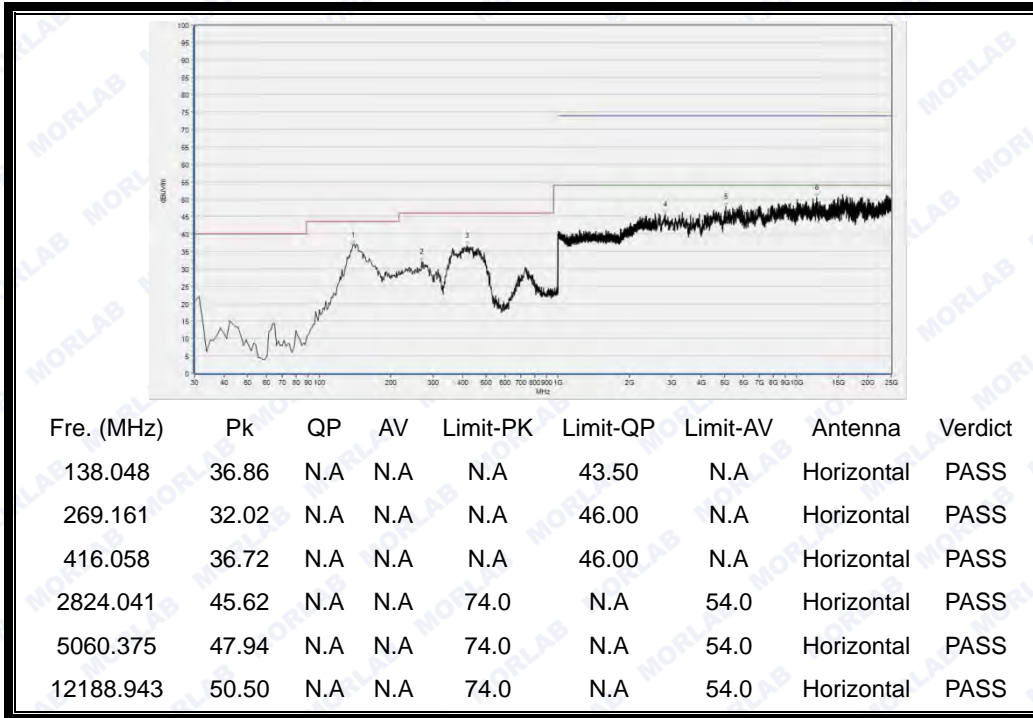


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25892.612	52.02	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
27604.701	50.66	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29734.967	50.71	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
31670.209	50.72	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34777.472	50.74	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
37104.638	51.74	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

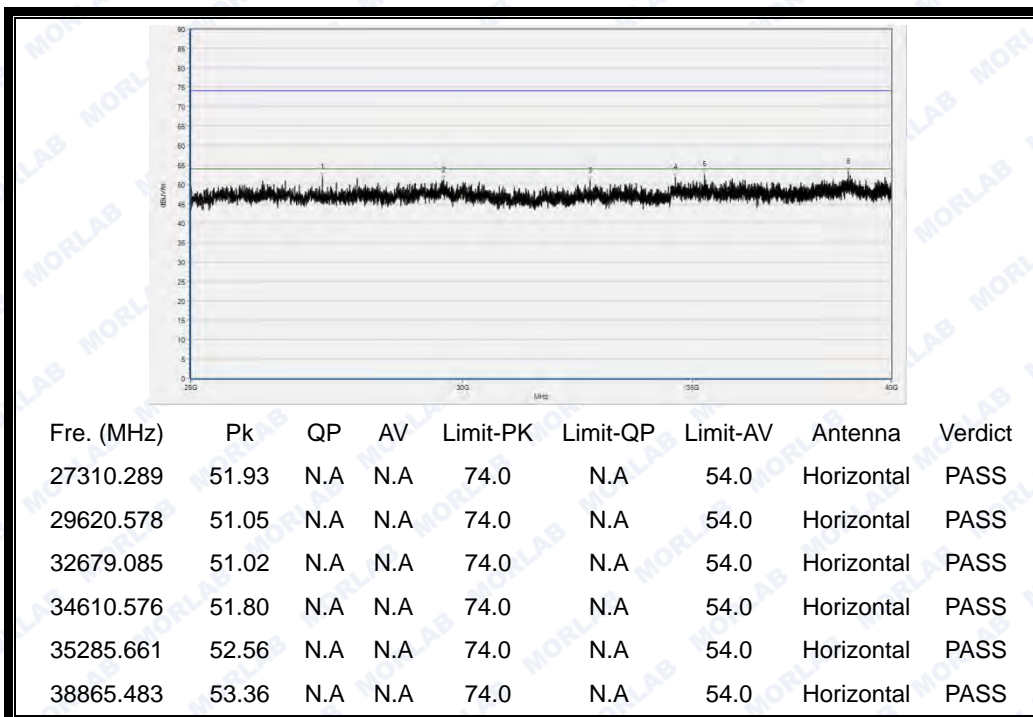
(Antenna Vertical, 25GHz to 40GHz)



Plot for middle Channel = 5790



(Antenna Horizontal, 30MHz to 25GHz)

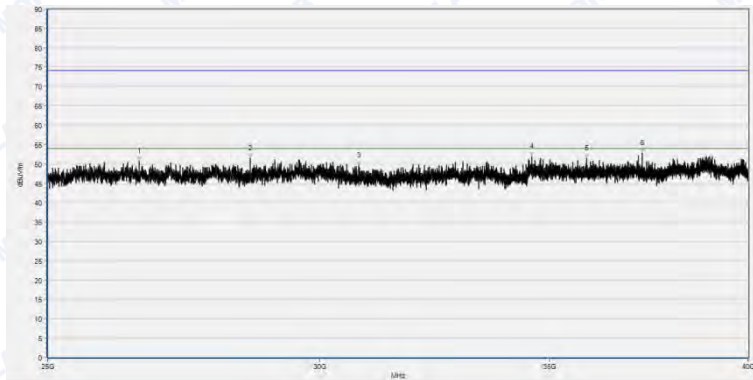


(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
31.214	25.99	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
63.992	24.08	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
270.375	30.71	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
402.703	31.76	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
4705.983	48.36	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
11580.997	53.12	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

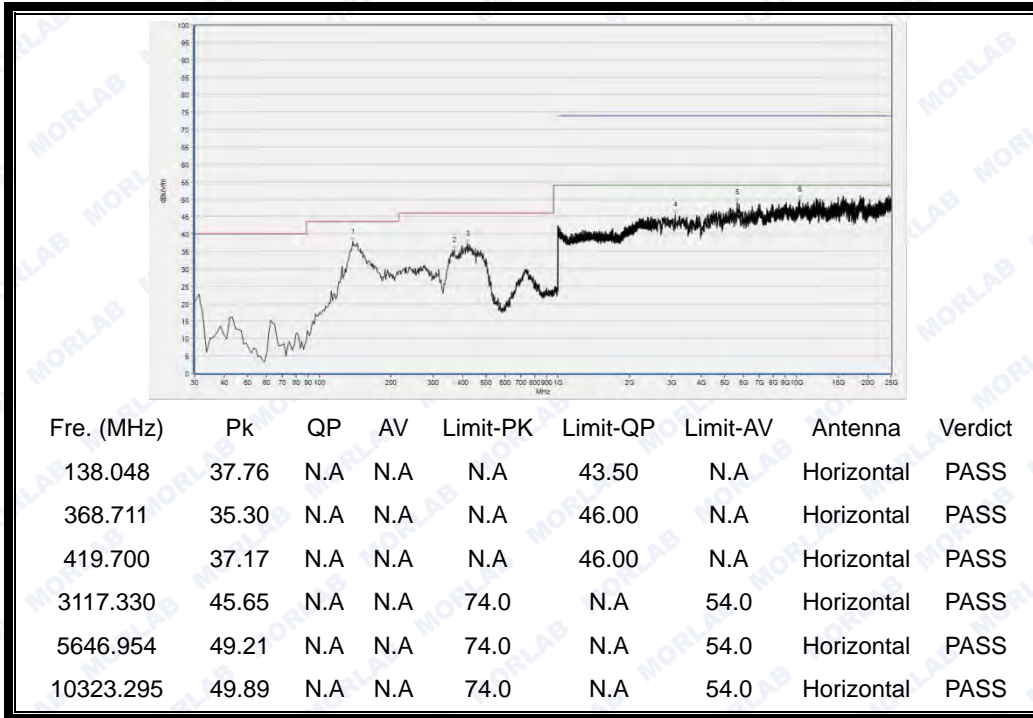


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26586.448	50.82	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
28636.080	51.41	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
30801.975	49.59	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34595.574	51.88	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
35895.112	51.42	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
37258.407	52.77	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

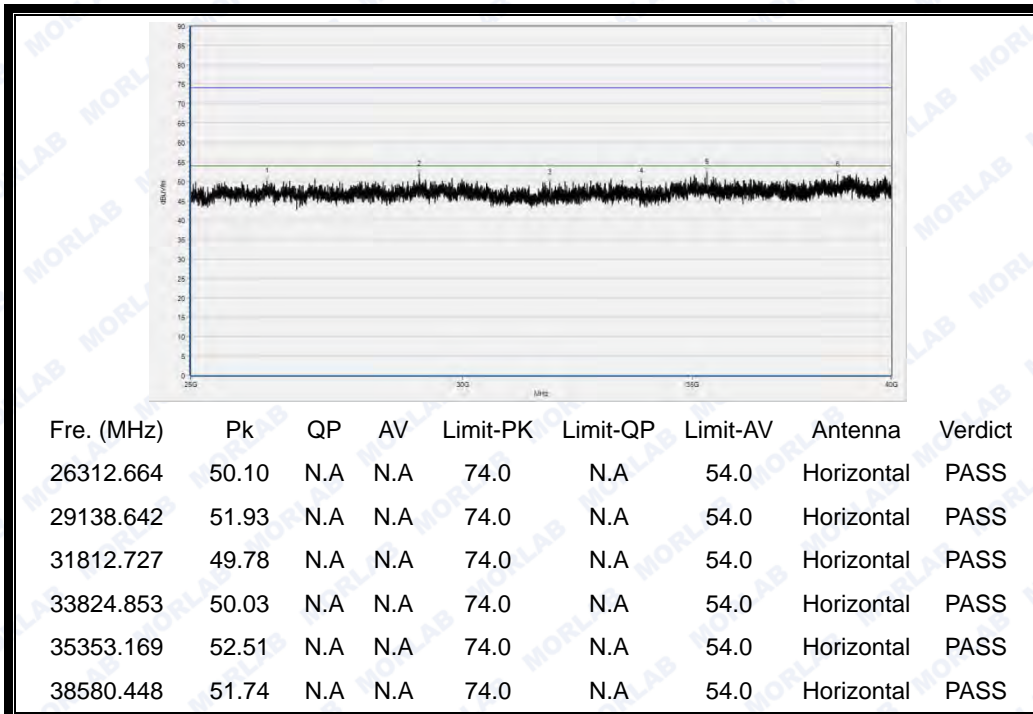
(Antenna Vertical, 25GHz to 40GHz)



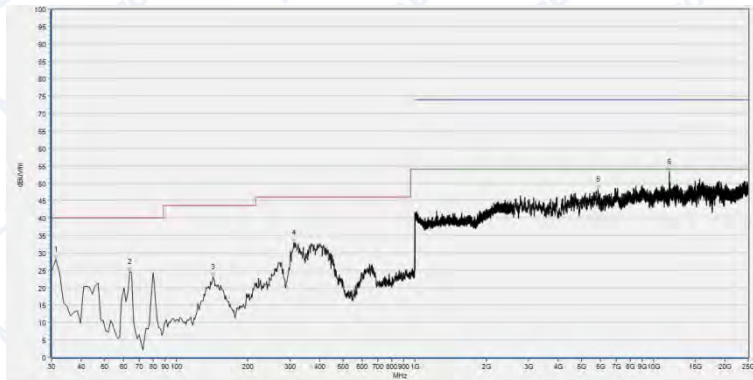
Plot for highest Channel = 5866



(Antenna Horizontal, 30MHz to 25GHz)

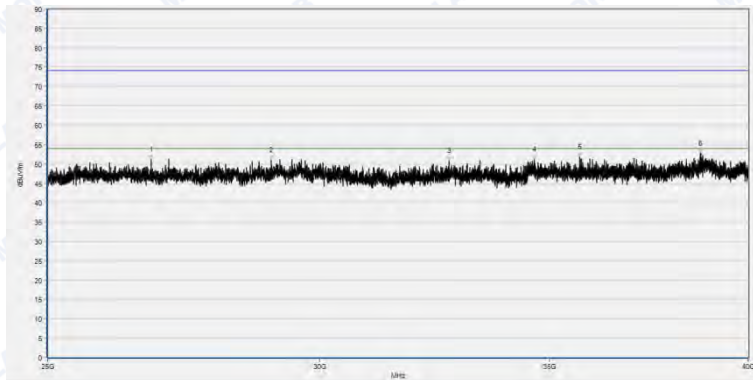


(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
31.214	28.10	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
63.992	24.67	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
142.904	23.17	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
310.438	32.90	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
5870.995	48.30	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
11732.833	53.27	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26800.225	51.20	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29048.631	50.98	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32722.215	50.73	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34651.831	51.20	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
35718.840	51.73	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38726.716	52.63	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

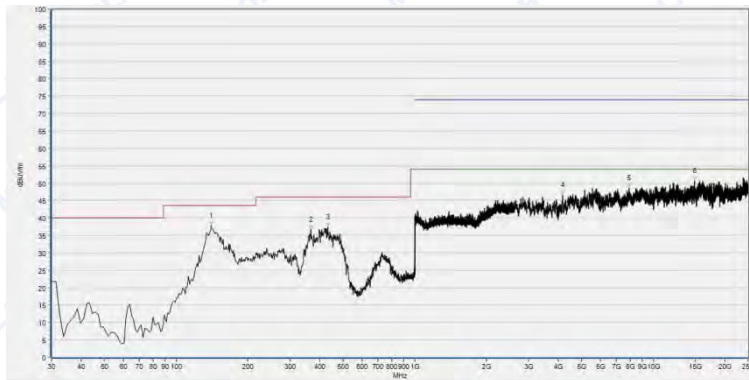
(Antenna Vertical, 25GHz to 40GHz)



2.4.3.2 Black antenna

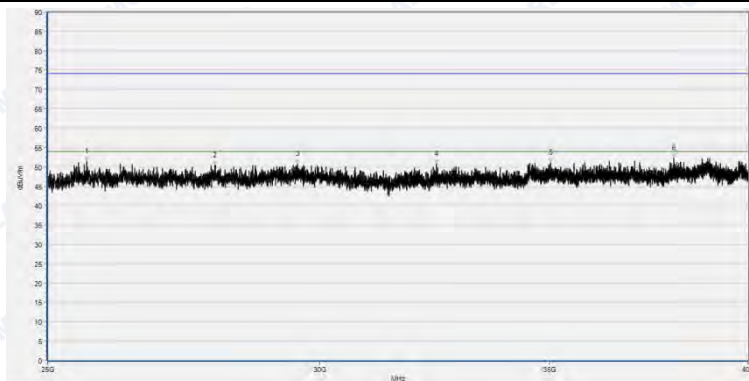
Note: Test Plots for the Whole Measurement Frequency Range:

Plot for lowest Channel = 5733



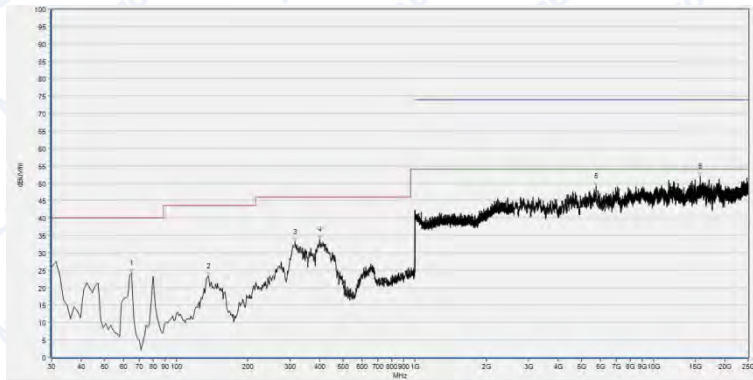
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
140.476	37.72	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
367.497	36.73	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
431.840	37.39	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
4164.212	46.48	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
7891.435	48.60	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
14852.991	50.62	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



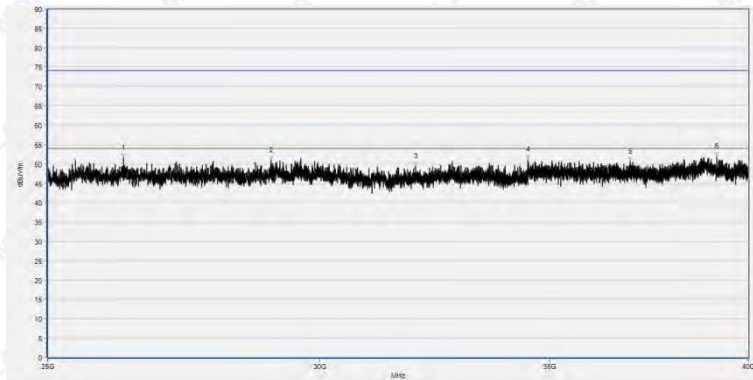
Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25667.583	51.45	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
27964.746	50.50	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
29564.321	50.83	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
32452.182	50.79	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
35038.130	51.12	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
38057.257	52.25	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
65.207	24.14	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
136.834	23.29	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
315.294	33.18	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
399.061	33.85	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
5752.864	49.09	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15773.595	52.04	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

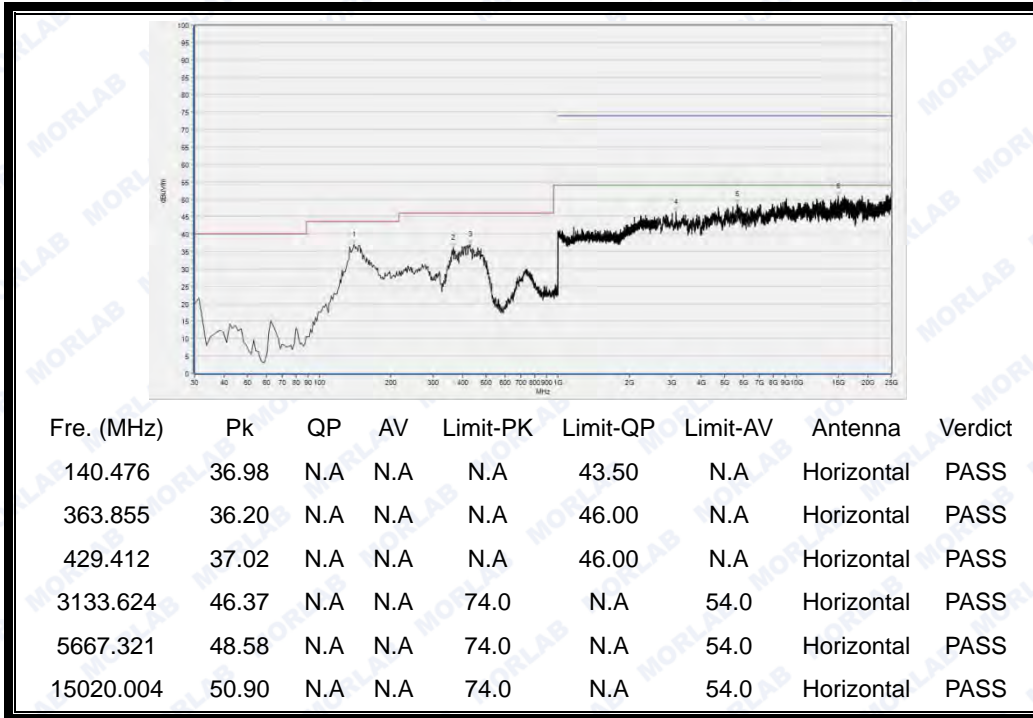


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
26307.038	51.66	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
29037.380	50.95	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
31998.375	49.37	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34499.937	51.18	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
36960.245	50.55	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
39169.271	51.88	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

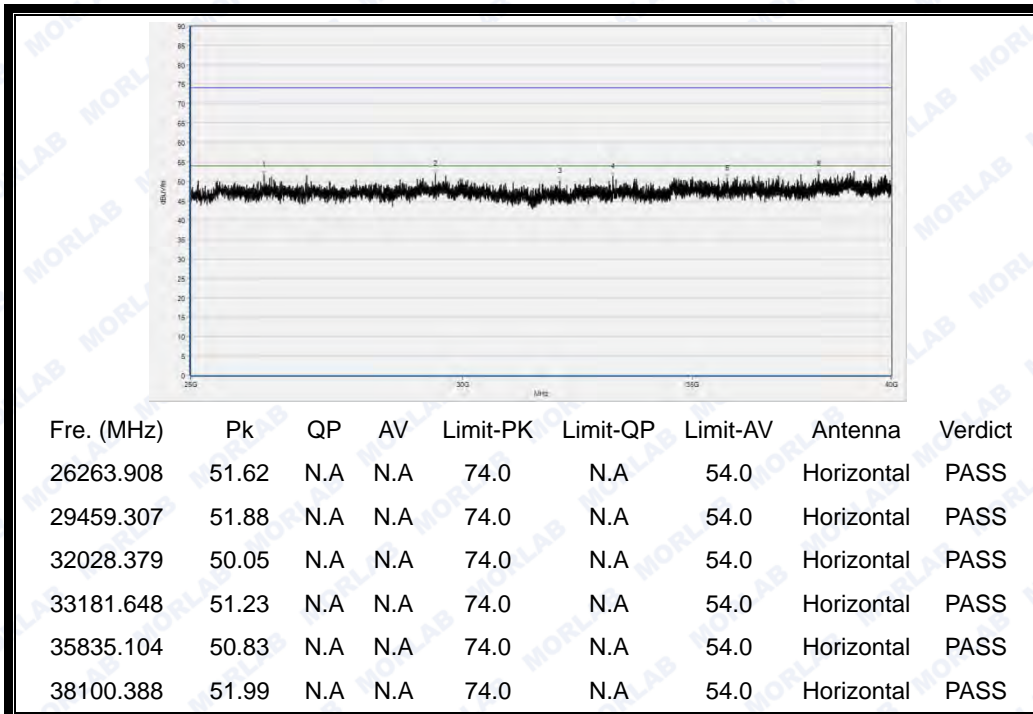
(Antenna Vertical, 25GHz to 40GHz)



Plot for middle Channel = 5790



(Antenna Horizontal, 30MHz to 25GHz)

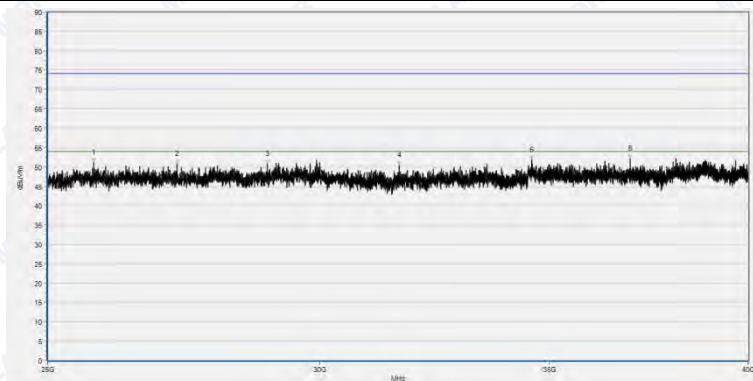


(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
31.214	26.74	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
63.992	23.79	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
134.406	22.15	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
361.427	33.59	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
4726.350	48.50	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
11761.229	50.49	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

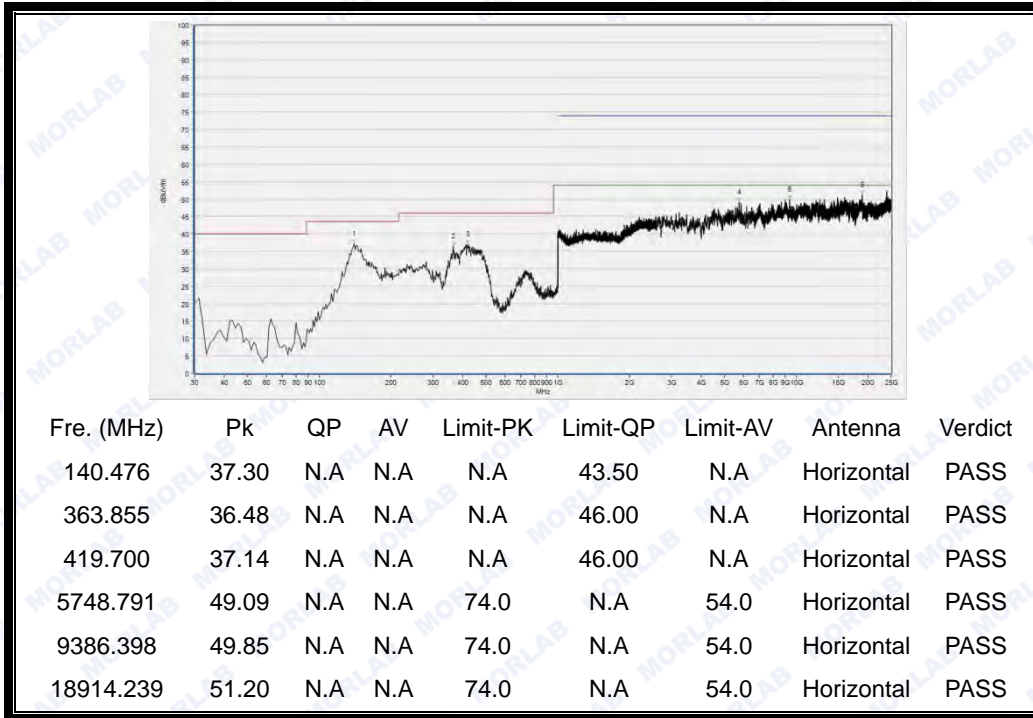


Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25780.098	51.16	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
27270.909	50.74	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
28971.746	50.79	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
31649.581	50.45	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
34593.699	51.73	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
36960.245	52.05	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

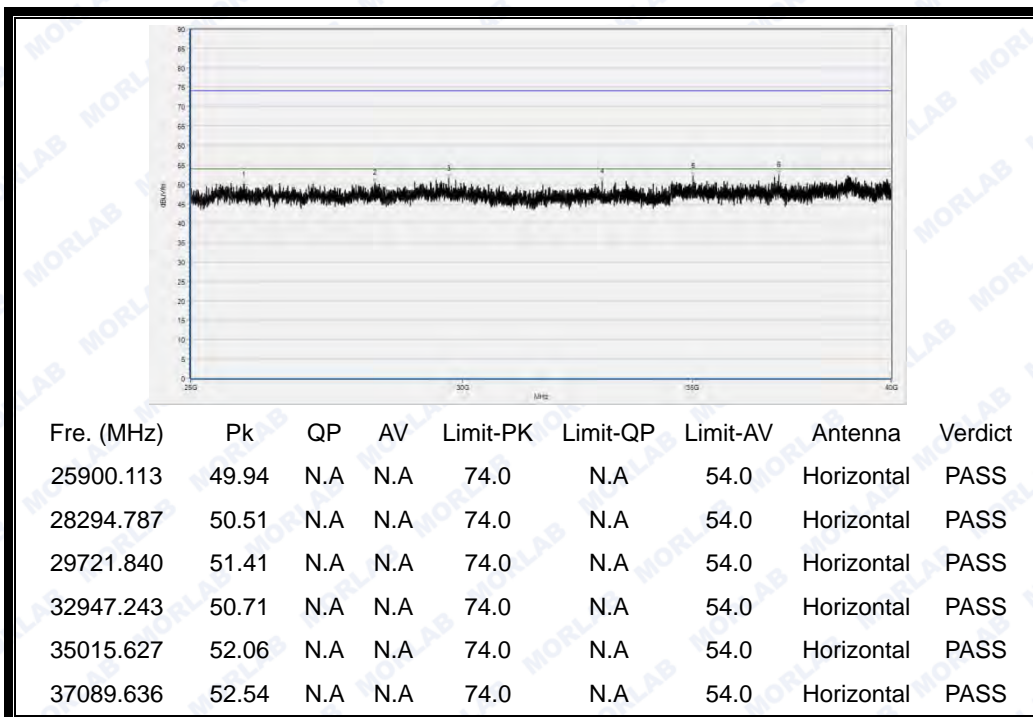
(Antenna Vertical, 25GHz to 40GHz)



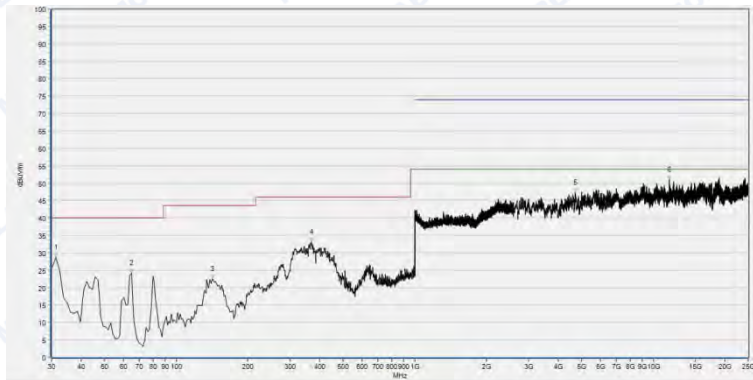
Plot for highest Channel = 5866



(Antenna Horizontal, 30MHz to 25GHz)

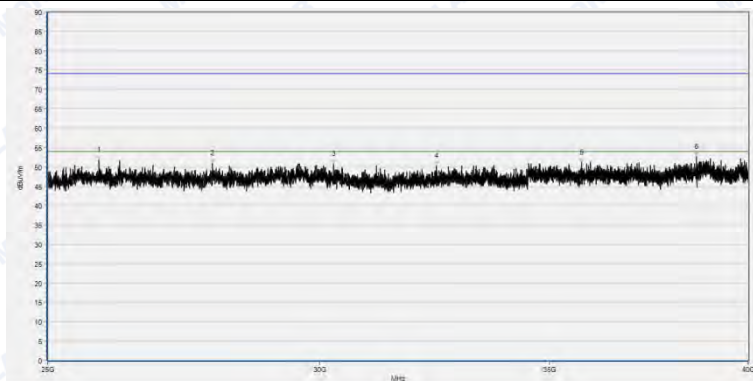


(Antenna Horizontal, 25GHz to 40GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
33.642	29.86	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
60.350	32.64	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
2501.401	44.45	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
3638.734	45.01	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
4958.538	48.50	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
12584.070	48.83	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
25877.610	51.85	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
27917.865	50.88	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
30288.161	50.77	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
32448.431	50.28	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
35767.596	51.15	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
38631.079	52.58	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 25GHz to 40GHz)



ANNEX A GENERAL INFORMATION

1.1 Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

1.3 Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.



1.4 Test Equipments Utilized

1.4.1 Conducted Test Equipments

Conducted Test Equipment						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2015.02.26	2016.02.25
2	Power Splitter	NW521	1506A	Weinschel	2015.02.26	2016.02.25
3	Attenuator 1	(n.a.)	10dB	Resnet	2015.02.26	2016.02.25
4	Attenuator 2	(n.a.)	3dB	Resnet	2015.02.26	2016.02.25
5	USB Wideband Power Sensor	MY52280010	U2021XA	Agilent	2015.02.26	2016.02.25
6	EXA Signal Analyzer	MY51440152	N9010A	Agilent	2015.02.26	2016.02.25
7	RF cable	CB01	RF01	Morlab	N/A	N/A
8	Coaxial cable	CB02	RF02	Morlab	N/A	N/A
9	SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.4.2 Conducted Emission Test Equipments

Conducted Emission Test Equipments						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
1	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
2	LISN	812744	NSLK 8127	Schwarzbeck	2015.02.26	2016.02.25
3	Service Supplier	100448	CMU200	R&S	2015.02.26	2016.02.25
4	Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2015.02.26	2016.02.25
5	Coaxial cable(BNC)	CB01	EMC01	Morlab	N/A	N/A



1.4.3 Radiated Test Equipments

Radiated Test Equipments						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due Date
1	System Simulator	100448	CMU200	R&S	2015.02.26	2016.02.25
2	Receiver	US44210471	E7405A	Agilent	2015.02.26	2016.02.25
3	Test Antenna - Bi-Log	9163-274	9m*6m*6m	Albatross	2015.02.26	2016.02.25
4	Test Antenna - Horn	9120D-963	VULB 9163	Schwarzbeck	2015.02.26	2016.02.25
5	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2015.02.26	2016.02.25
6	Test Antenna - Loop	1519-022	HL050S7	R&S	2015.02.26	2016.02.25
7	Reject Filter	(n.a.)	BRM50702	Micro-Tronics	2015.02.26	2016.02.25
8	Coaxial cable (N male)	CB02	EMC02	Morlab	N/A	N/A
9	Coaxial cable (N male)	CB03	EMC03	Morlab	N/A	N/A

1.4.4 Climate Chamber

Climate Chamber						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Climate Chamber	2004012	HL4003T	Yinhe	2015.02.26	2016.02.25

1.4.5 Vibration Table

Vibration Table						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Vibration Table	N/A	ACT2000- S015L	CMI-COM	2015.02.26	2016.02.25

1.4.6 Anechoic Chamber

Anechoic Chamber						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	Albatross	2015.02.26	2016.02.25

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