

FCC Test Report

Report No.: AGC01110180624FE08

FCC ID : 2A0KB-A3162
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Soundcore Flare+
BRAND NAME : Soundcore
MODEL NAME : A3162
CLIENT : Anker Innovations Limited
DATE OF ISSUE : Jul 12, 2018
STANDARD(S) : FCC Part 15 Subpart C Section 15.247
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 12, 2018	Valid	Initial release

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1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Product Designation	Soundcore Flare+
Brand Name	Soundcore
Test Model	A3162
Date of test	Jun. 28, 2018 to Jul. 10, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BLE/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.247. The test results of this report relate only to the tested sample identified in this report.

Tested By

Henry Zhang

Henry Zhang(Zhang Zhuorui) Jul. 10, 2018

Reviewed By

Cool Cheng

Cool Cheng(Cheng Mengguo) Jul. 12, 2018

Approved By

Forrest Lei

Forrest Lei(Lei Yonggang)
Authorized Officer Jul. 12, 2018

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2. GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION

The EUT is designed as a "Soundcore Flare+". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.08dBm(Max)
Bluetooth Version	V5.0
Modulation (BLE)	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	PCB Antenna
Antenna Gain	3.88dBi
Hardware Version	E
Software Version	V2.0
Power Supply	DC 7.2V by Battery
Note: 1. The micro USB port only be used for charging and can't be used to transfer data with PC. 2. The standard USB port only be used to power supply for other device and can't transfer data with PC.	

2.2 TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013.

2.3 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

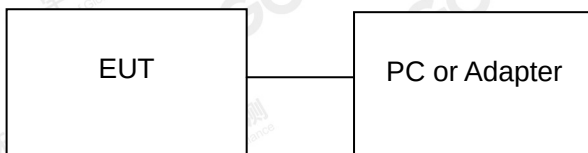
- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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3. SYSTEM TEST CONFIGURATION

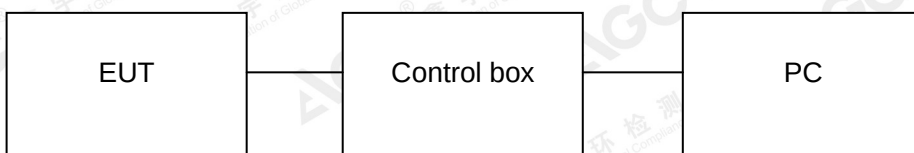
3.1 CONFIGURATION OF TESTED SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, testing may be performed while PC or adapter removed.

Configuration: Continuous TX



3.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Soundcore Flare+	Soundcore	A3162	EUT
2	Battery	HU NAN GIANTSUN	PA21	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
5	Adapter	I PRO	NTR-S01	A.E
6	Temporary Antenna Connector	T10	N/A	A.E
7	Load	Rx24	0.3m unshielded	A.E
8	USB Cable	N/A	1m unshielded	Accessory
9	Mobile Phone	Huawei	V9	A.E

Note: The temporary antenna connector is a RF SMA connector with fifty ohm resistor, which is welded to the PCB board or module.

3.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.209 §15.247(d)	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.247(a) (2)	6 dB Bandwidth	Compliant
§15.247(b)	Conducted Output Power	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Conducted Power Spectral Density	Compliant
§15.207	Line Conduction Emission	Compliant

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4. DESCRIPTION OF TEST MODES

The EUT has been operated in one modulation: GFSK.

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	BT Link with charging
5	BT Link

Note:

1. Only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Transmitting duty cycle >98%, The average correction factor is about -0.18
4. The EUT used fully-charged battery when tested.

Software Setting

The screenshot shows the 'Form_Main' software interface. At the top, there's a title bar with 'Form_Main' and standard window controls. Below the title bar, there's a section for 'Interface' with a dropdown set to 'COM UART', 'Port = 4', and 'Baudrate=115200'. There are 'Open' and 'Close' buttons, and a checked 'Download Patch' checkbox. To the right is a 'Hot Key' section with buttons for 'HCI Reset', 'Test Mode', 'Patch code', 'GetChiplInfo', 'Get BT Stage', and a text field showing '0'. Below the interface section are tabs for 'Non Link Mode', 'Hopping', 'R/W', 'Options', 'LE Test', and 'LED'. The 'Non Link Mode' tab is active, showing fields for 'Channel' (0), 'Packet Type' (DH1), 'Payload Type' (ALL'0), 'Tx Packet Count' (0), 'Tx Gain Index' (5), and 'Tx Gain Value' (0xCE). To the right of these fields are buttons for 'Pkt-Tx', 'Exec', 'Stop', and 'Clear Report'. Below these is a table with two columns: 'Item' and 'Value'. The table contains two rows: 'Tx bits' with value '874368' and 'Tx Pkt Count' with value '4048'. Below the table are buttons for 'TX Report' and 'RX Report'. At the bottom is a 'Message' log area showing the following text: '>>LMP_Version=0x6', '>>Version=0c', '>>Is_After_PatchCode=1', '>>Skip patch code !!', '>>Download patch code Success...', '>>Enable TRX Thread Mode...!!', and '>>ActionControlExcute(Pkt-Tx) Success...!!'. There is also a 'Script' button at the bottom right.

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5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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6. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2018	Jun.19, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	--	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A

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7. ANTENNA REQUIREMENT

7.1. STANDARD APPLICABLE

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

7.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

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8. RADIATED EMISSION

8.1 LIMITS

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

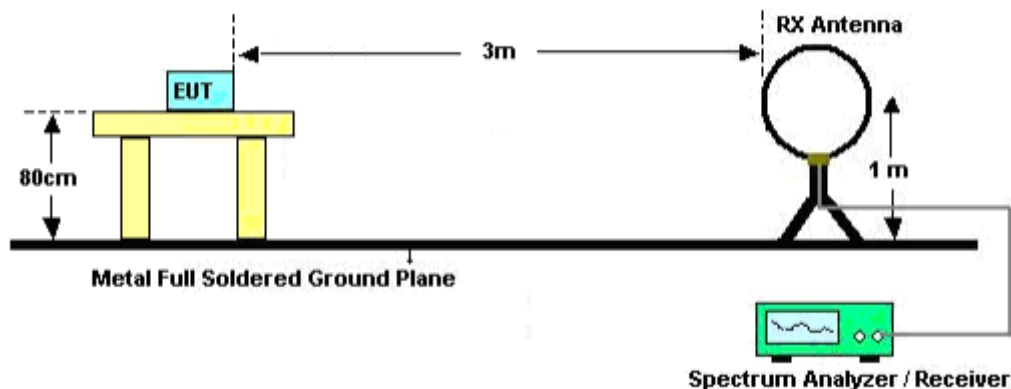
8.2 MEASUREMENT PROCEDURE

- The measuring distance of 3m 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)
- The measuring distance of 3m shall 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)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 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 Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

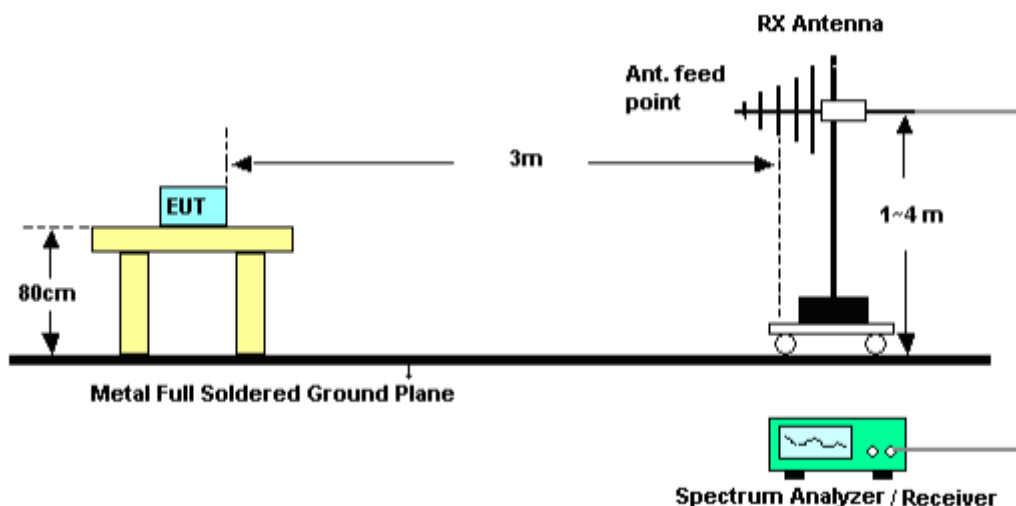
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8.3 TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz

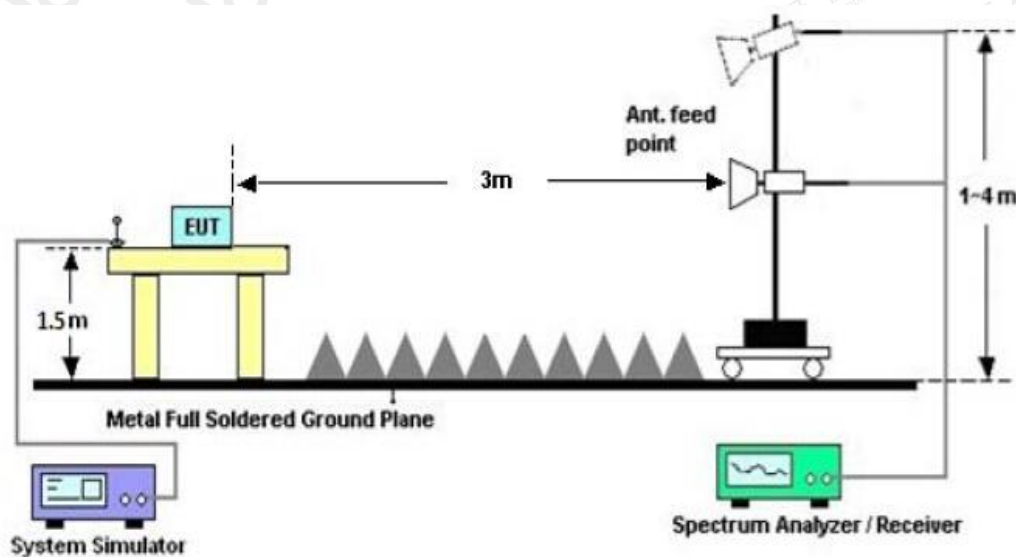


RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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8.4 TEST RESULT (Worst Modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		70.4167	16.86	9.85	26.71	40.00	-13.29	peak			
2		285.4333	20.88	12.93	33.81	46.00	-12.19	peak			
3		338.7833	18.39	17.99	36.38	46.00	-9.62	peak			
4	*	390.5167	18.82	19.01	37.83	46.00	-8.17	peak			
5		553.8000	13.64	22.57	36.21	46.00	-9.79	peak			
6		890.0667	1.71	28.35	30.06	46.00	-15.94	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		73.6500	24.02	3.36	27.38	40.00	-12.62	peak			
2		131.8500	19.91	11.80	31.71	43.50	-11.79	peak			
3		295.1333	16.60	15.26	31.86	46.00	-14.14	peak			
4		416.3833	13.56	19.57	33.13	46.00	-12.87	peak			
5	*	553.8000	13.41	22.50	35.91	46.00	-10.09	peak			
6		875.5167	1.18	27.97	29.15	46.00	-16.85	peak			

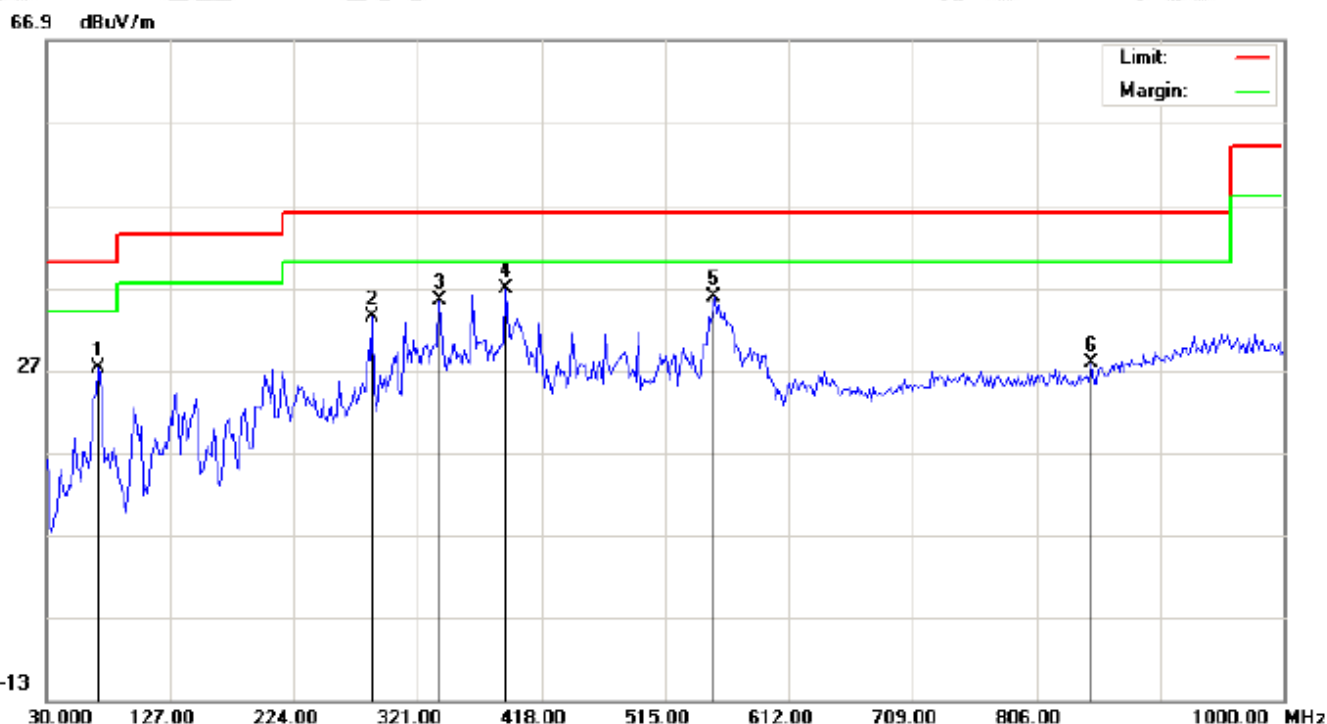
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		70.4167	17.36	9.85	27.21	40.00	-12.79	peak			
2		285.4332	20.38	12.93	33.31	46.00	-12.69	peak			
3		338.7832	17.39	17.99	35.38	46.00	-10.62	peak			
4	*	390.5167	17.82	19.01	36.83	46.00	-9.17	peak			
5		553.7999	13.14	22.57	35.71	46.00	-10.29	peak			
6		849.6499	0.56	27.31	27.87	46.00	-18.13	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		73.6500	23.52	3.36	26.88	40.00	-13.12	peak			
2		131.8499	19.91	11.80	31.71	43.50	-11.79	peak			
3		259.5667	15.49	14.19	29.68	46.00	-16.32	peak			
4		416.3833	12.56	19.57	32.13	46.00	-13.87	peak			
5	*	553.7999	12.41	22.50	34.91	46.00	-11.09	peak			
6		875.5167	0.18	27.97	28.15	46.00	-17.85	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	70.4167	17.48	9.85	27.33	40.00	-12.67	peak			
2		196.5167	14.97	11.84	26.81	43.50	-16.69	peak			
3		364.6500	11.40	18.84	30.24	46.00	-15.76	peak			
4		510.1500	7.78	21.40	29.18	46.00	-16.82	peak			
5		746.1833	-0.15	26.52	26.37	46.00	-19.63	peak			
6		948.2667	0.91	29.95	30.86	46.00	-15.14	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		73.6500	21.15	6.70	27.85	40.00	-12.15	peak			
2		131.8500	17.49	11.39	28.88	43.50	-14.62	peak			
3		285.4333	14.41	12.93	27.34	46.00	-18.66	peak			
4	*	561.8832	13.86	22.78	36.64	46.00	-9.36	peak			
5		751.0333	0.33	26.64	26.97	46.00	-19.03	peak			
6		899.7667	1.25	28.60	29.85	46.00	-16.15	peak			

RESULT: PASS

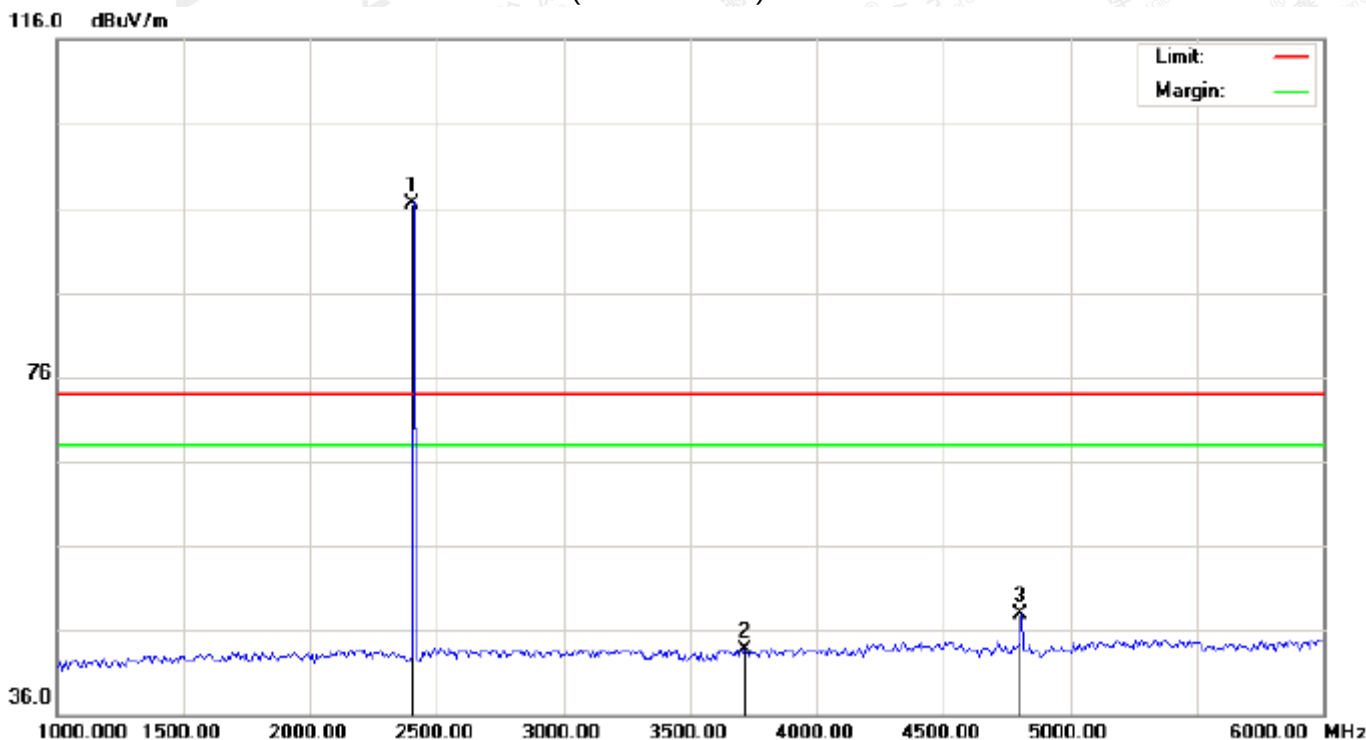
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHz

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL

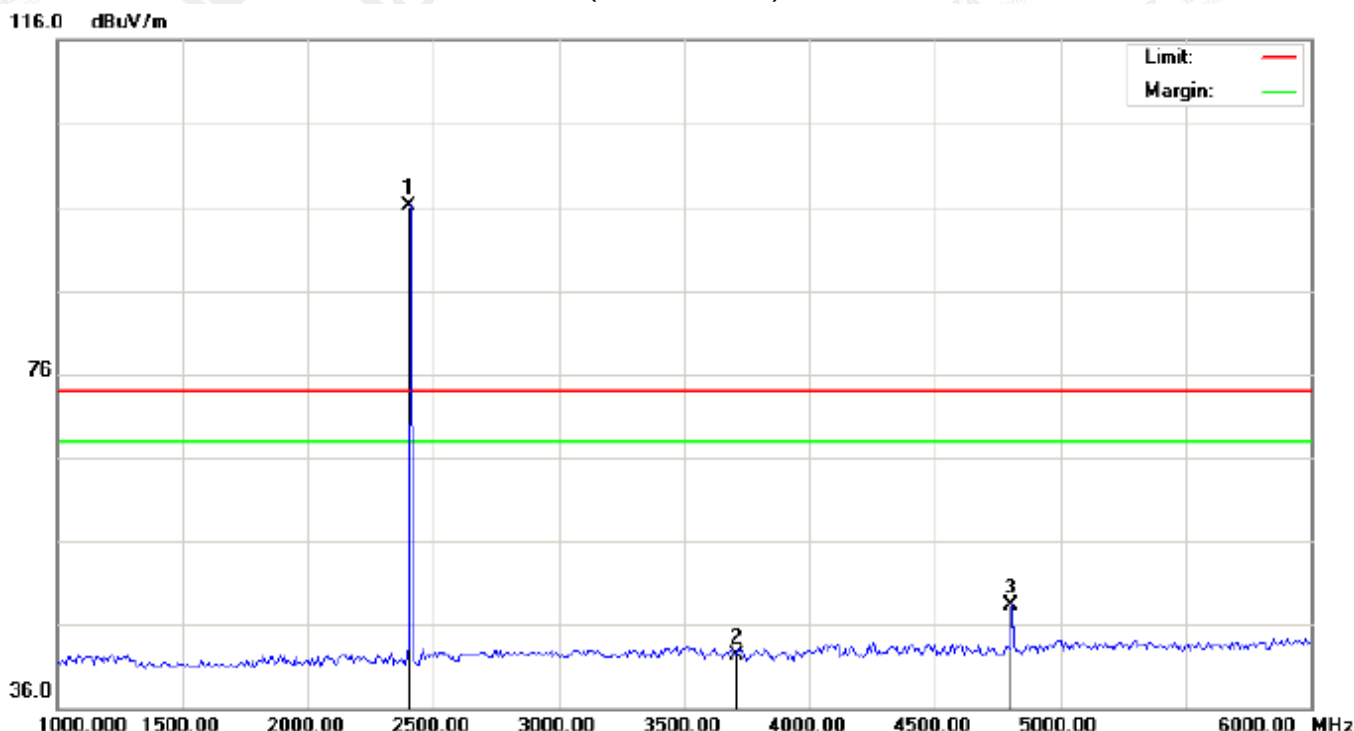


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	86.25	10.32	96.57	74.00	22.57	peak			
2		3716.667	30.27	13.44	43.71	74.00	-30.29	peak			
3		4804.000	40.21	7.69	47.90	74.00	-26.10	peak			

RESULT: PASS

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RADIATED EMISSION TEST-(ABOVE 1GHz)-LOW CHANNEL-VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	85.77	10.32	96.09	74.00	22.09	peak			
2		3708.333	28.93	13.39	42.32	74.00	-31.68	peak			
3		4804.000	40.55	7.69	48.24	74.00	-25.76	peak			

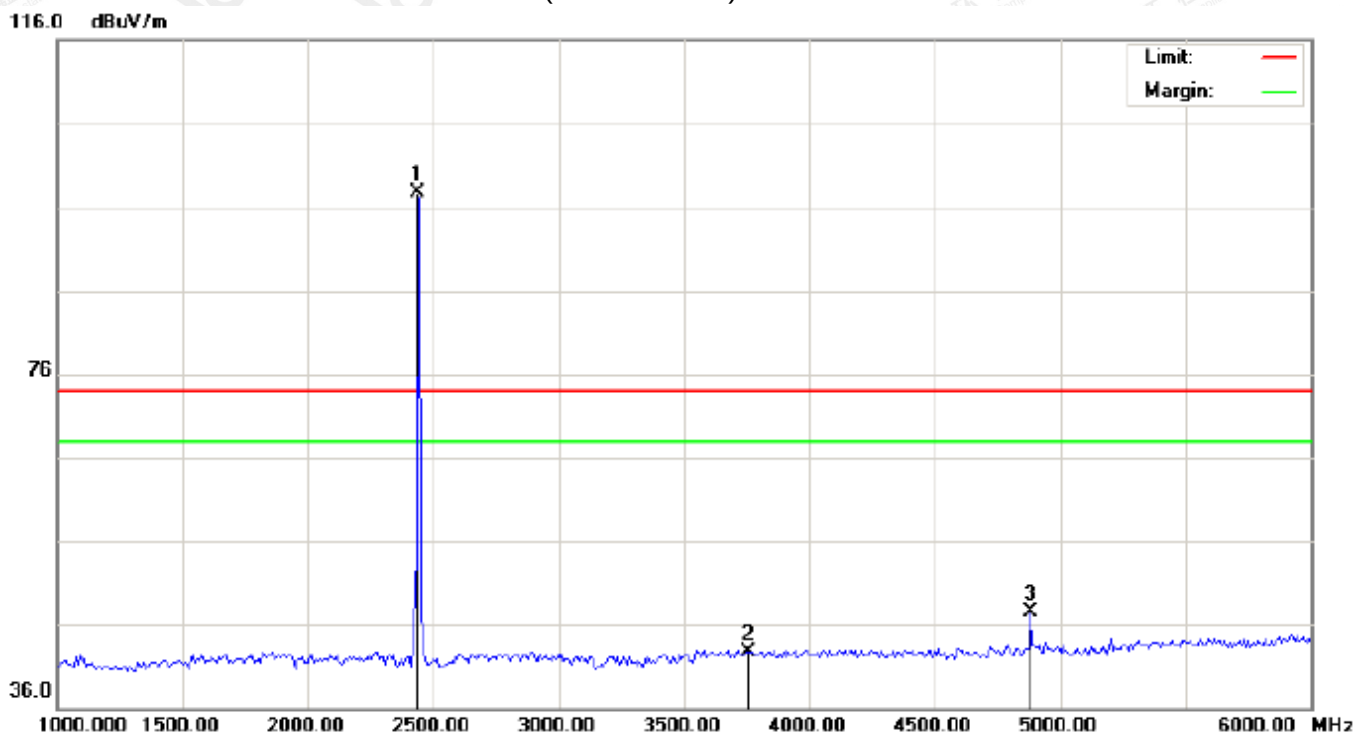
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST-(ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

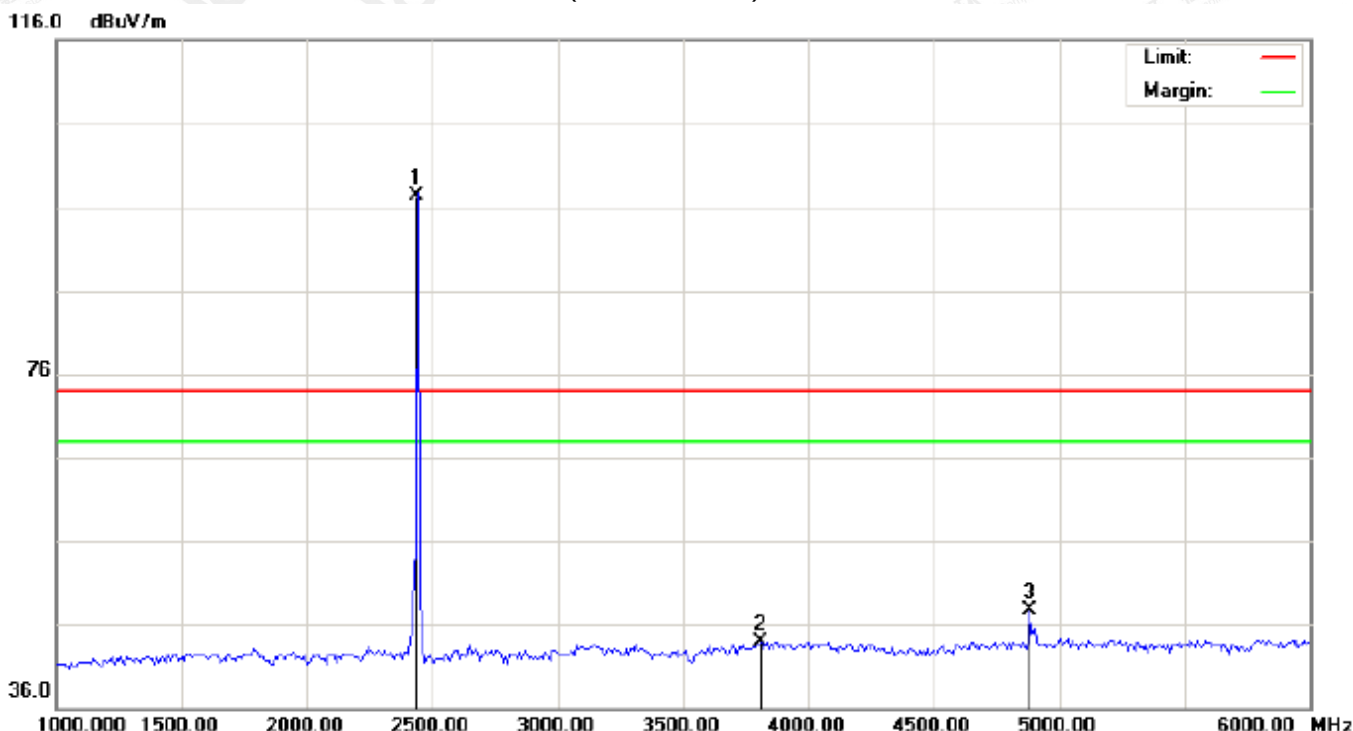


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2440.000	87.39	10.36	97.75	74.00	23.75	peak			
2		3758.333	28.98	13.70	42.68	74.00	-31.32	peak			
3		4880.000	39.66	7.89	47.55	74.00	-26.45	peak			

RESULT: PASS

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RADIATED EMISSION TEST-(ABOVE 1GHz)-MIDDLE CHANNEL-VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2440.000	86.96	10.36	97.32	74.00	23.32	peak			
2		3808.333	29.99	14.01	44.00	74.00	-30.00	peak			
3		4880.000	39.89	7.89	47.78	74.00	-26.22	peak			

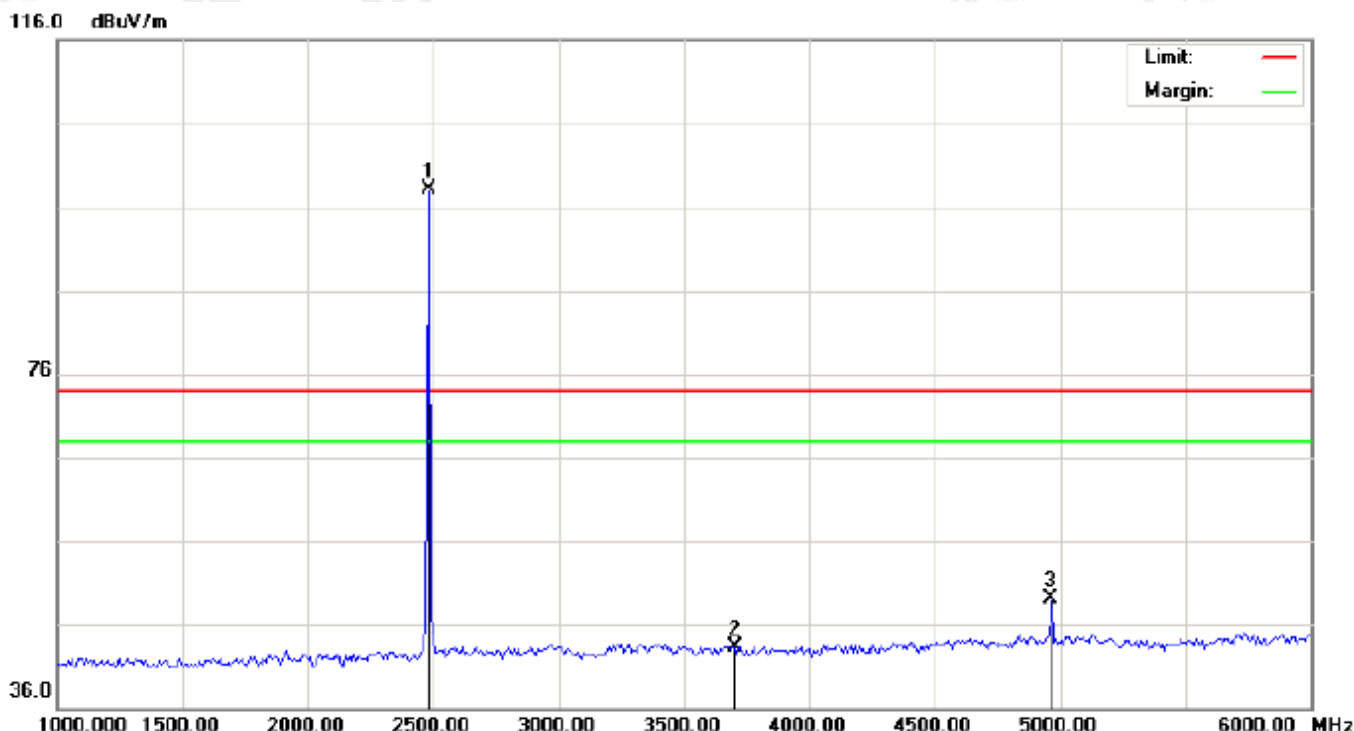
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST-(ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

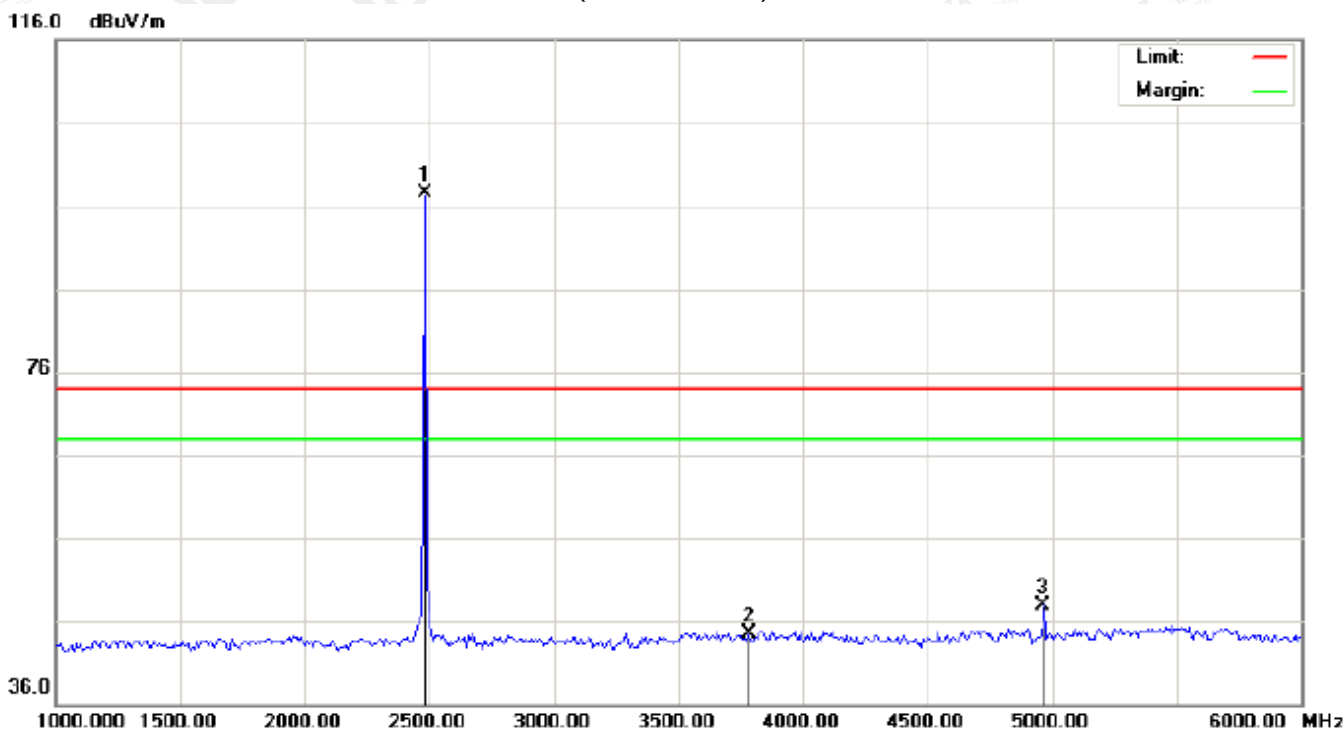


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.62	10.41	98.03	74.00	24.03	peak			
2		3700.000	30.05	13.34	43.39	74.00	-30.61	peak			
3		4960.000	41.10	8.09	49.19	74.00	-24.81	peak			

RESULT: PASS

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RADIATED EMISSION TEST-(ABOVE 1GHz)-HIGH CHANNEL-VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.13	10.41	97.54	74.00	23.54	peak			
2		3783.333	30.63	13.86	44.49	74.00	-29.51	peak			
3		4960.000	39.91	8.09	48.00	74.00	-26.00	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain,

Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

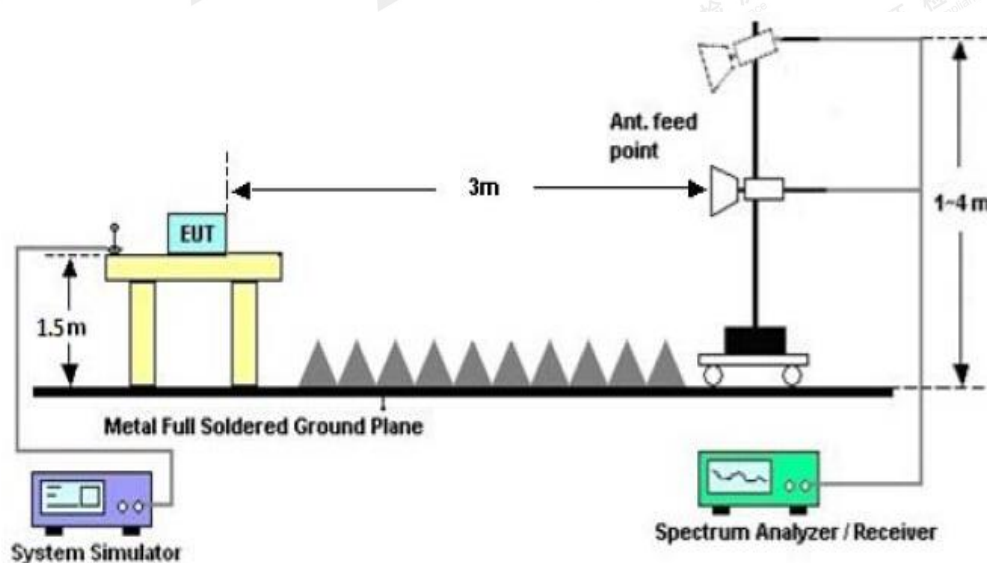
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9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency=Operation Frequency,
For unrestricted band: RBW=100kHz, VBW=300kHz
For restricted band: RBW=1MHz, VBW=3*RBW
Center frequency =Operation frequency
3. The band edges was measured and recorded.

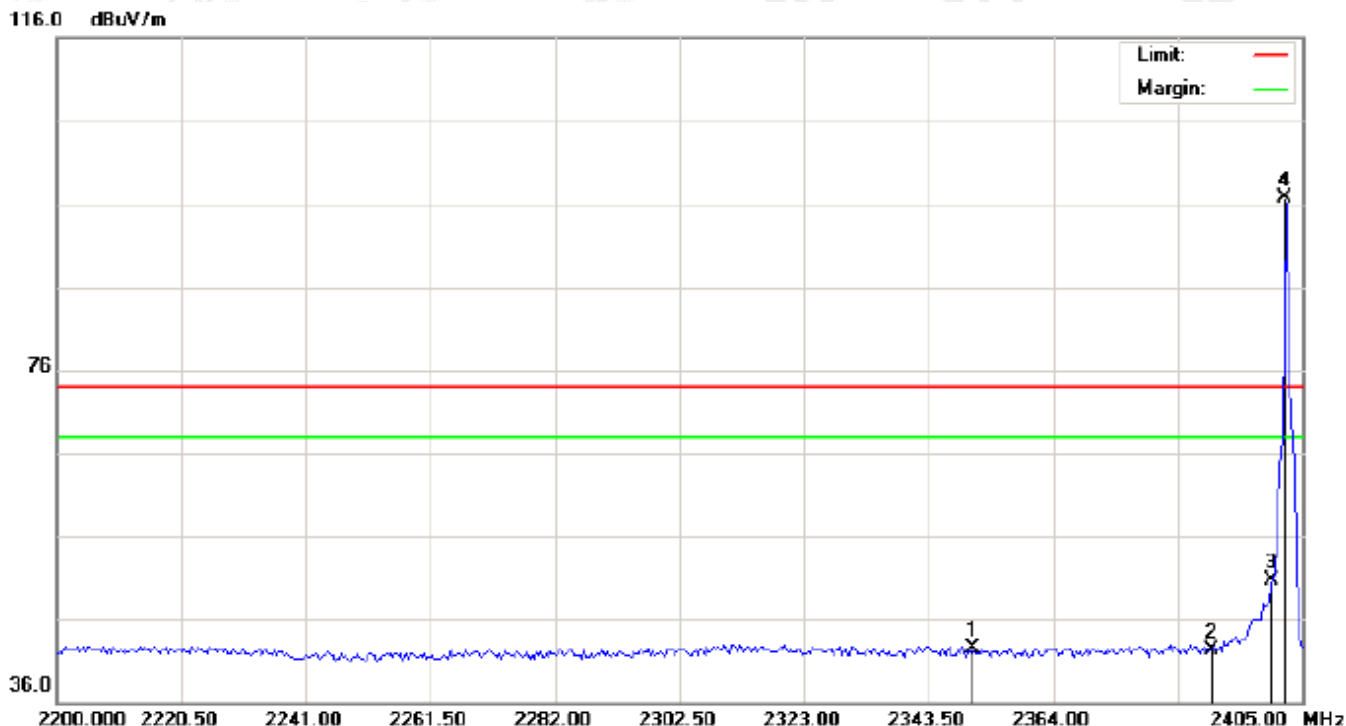
9.2. TEST SET-UP



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9.3. TEST RESULT

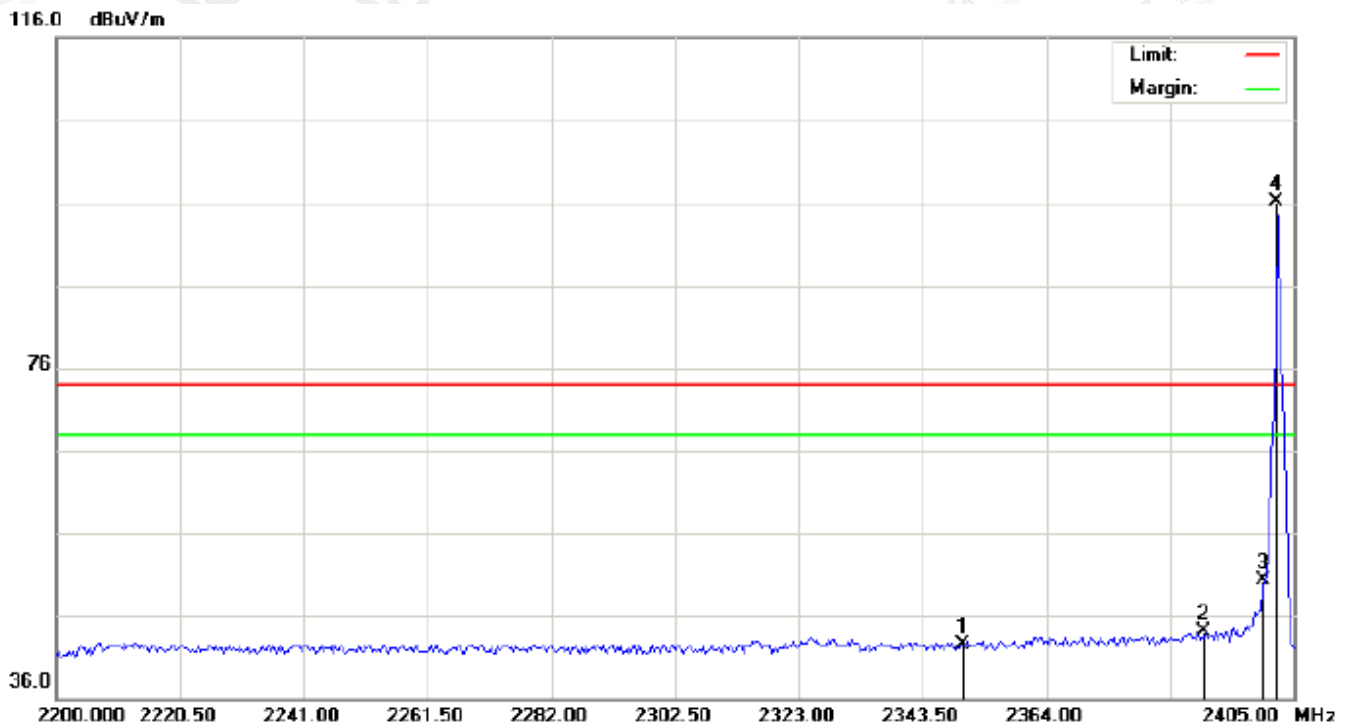
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2350.675	32.19	10.27	42.46	74.00	-31.54	peak			
2		2390.000	32.00	10.31	42.31	74.00	-31.69	peak			
3		2400.000	40.47	10.32	50.79	74.00	-23.21	peak			
4	*	2402.000	86.29	10.32	96.61	74.00	22.61	peak			

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical

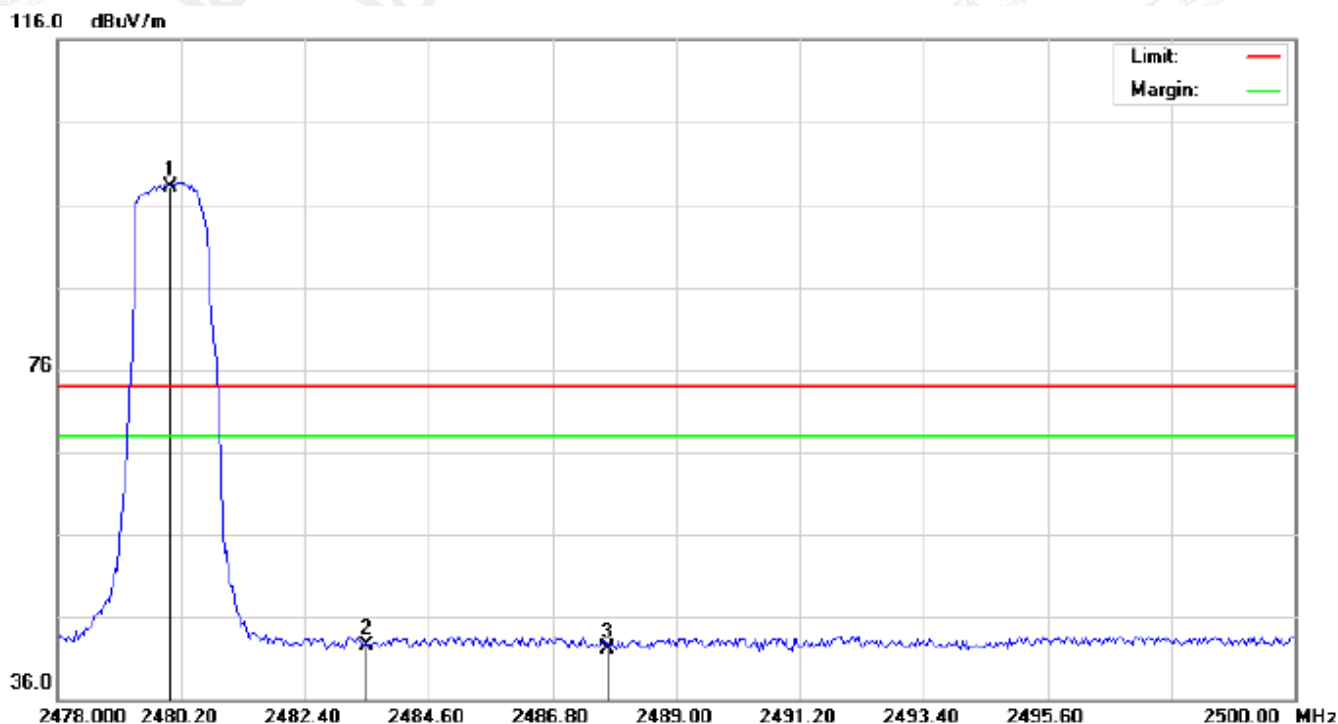


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2350.333	32.29	10.27	42.56	74.00	-31.44	peak			
2		2390.000	33.71	10.31	44.02	74.00	-29.98	peak			
3		2400.000	40.06	10.32	50.38	74.00	-23.62	peak			
4	*	2402.000	85.83	10.32	96.15	74.00	22.15	peak			

RESULT: PASS

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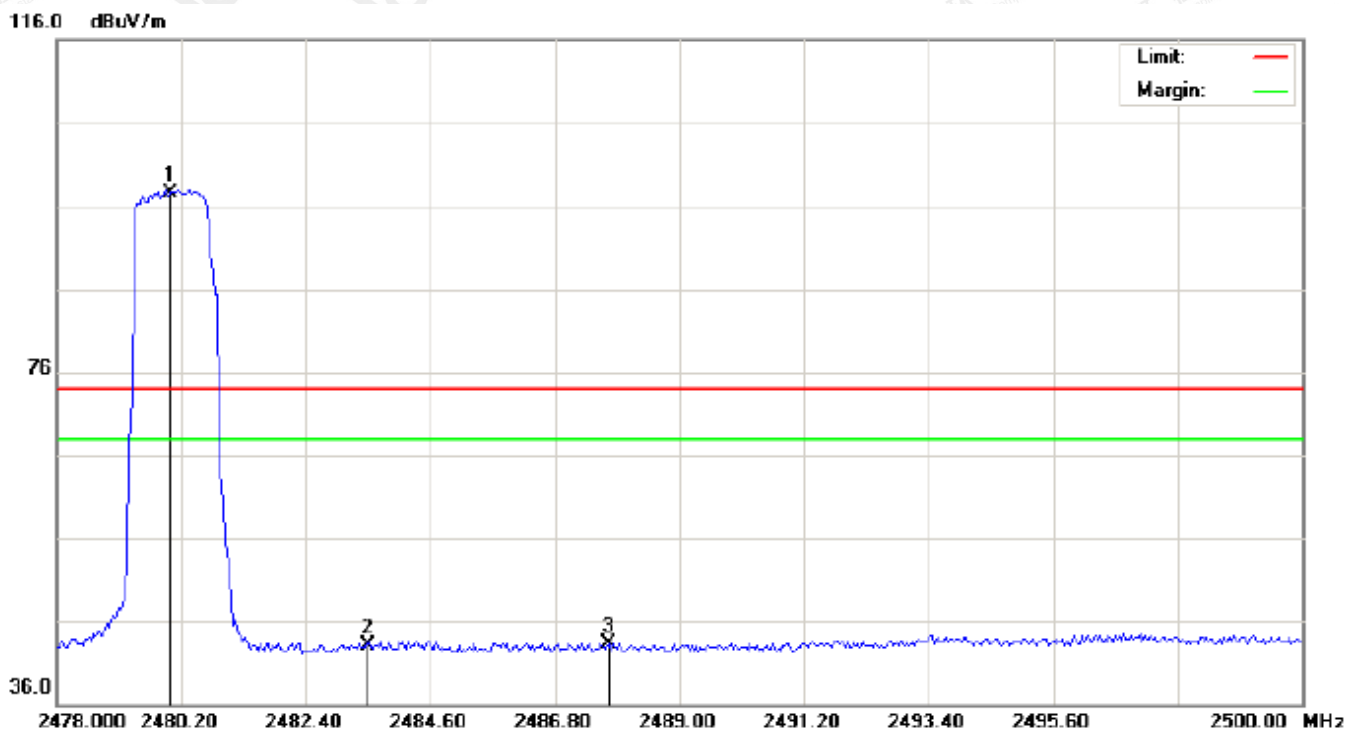
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL –Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.67	10.41	98.08	74.00	24.08	peak			
2		2483.500	32.19	10.41	42.60	74.00	-31.40	peak			
3		2487.789	31.78	10.42	42.20	74.00	-31.80	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.18	10.41	97.59	74.00	23.59	peak			
2		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
3		2487.753	32.95	10.42	43.37	74.00	-30.63	peak			

RESULT: PASS

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10. 6DB BANDWIDTH

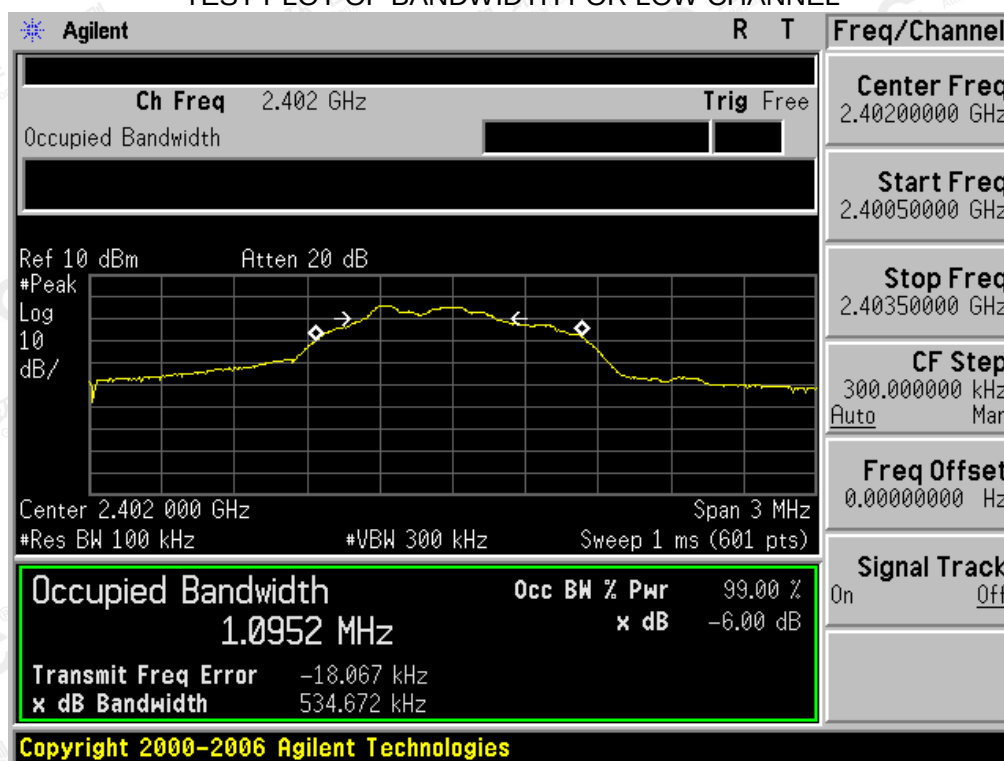
10.1. TEST PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ 3*RBW.
4. Set SPA Trace 1 Max hold, then View.

10.2. SUMMARY OF TEST RESULTS/PLOTS

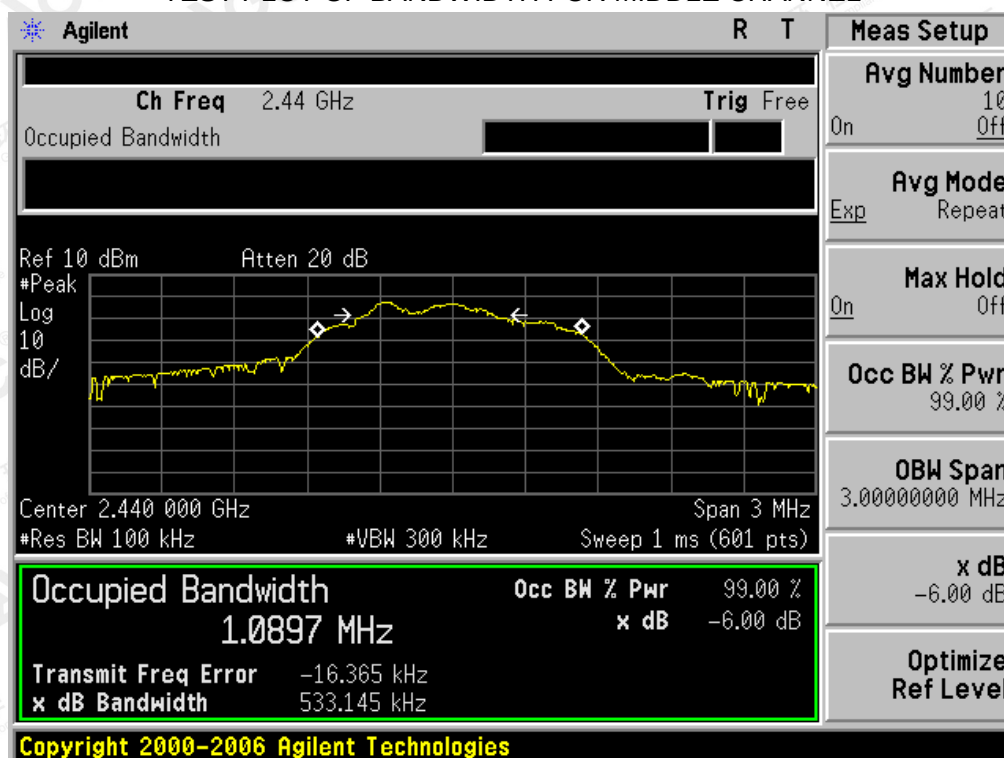
Channel	6dB Bandwidth (KHz)	Minimum Limit (KHz)	Pass/Fail
Low	535	500KHz	Pass
Middle	533		Pass
High	530		Pass

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

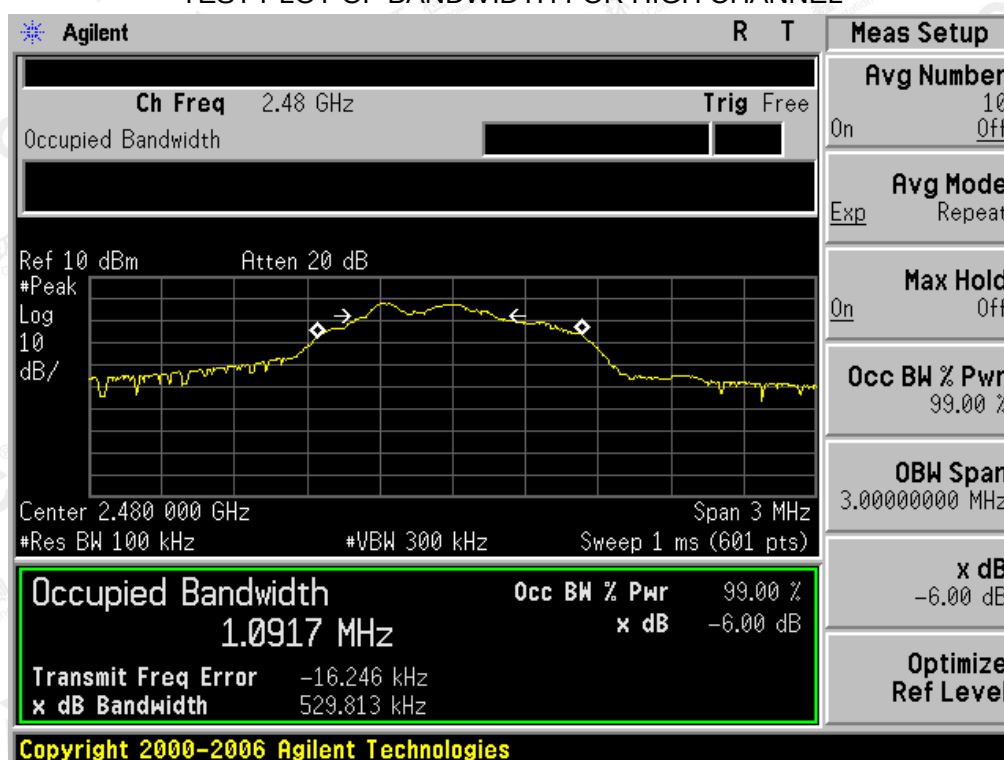


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



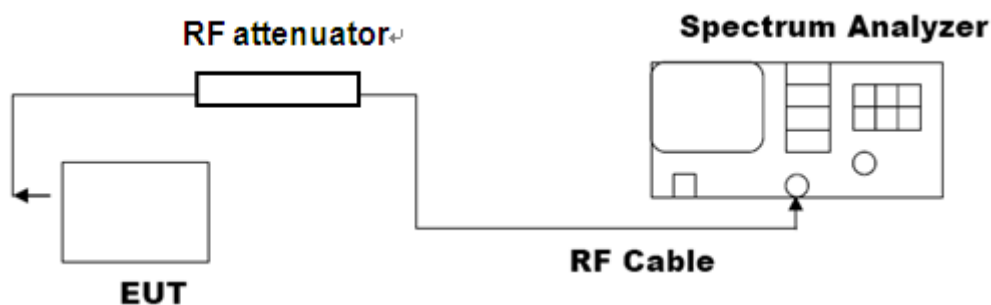
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11. CONDUCTED OUTPUT POWER

11.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. Use the following spectrum analyzer settings:
 - a) Set the RBW $\geq$ DTS bandwidth.
 - b) Set VBW $\geq$ 3 RBW.
 - c) Set span $\geq$ 3 x RBW
 - d) Sweep time = auto couple.
 - e) Detector = peak.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use peak marker function to determine the peak amplitude level.
4. Allow the trace to stabilize.
5. Record the result form the Spectrum Analyzer.

11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

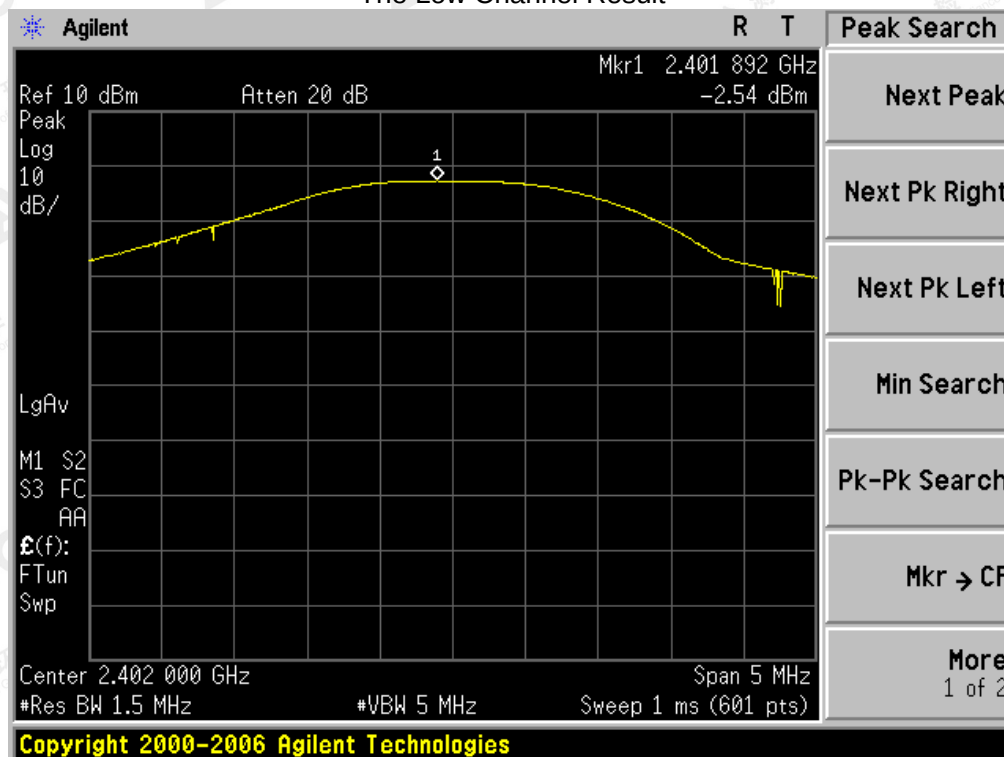


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11.3. LIMITS AND MEASUREMENT RESULT

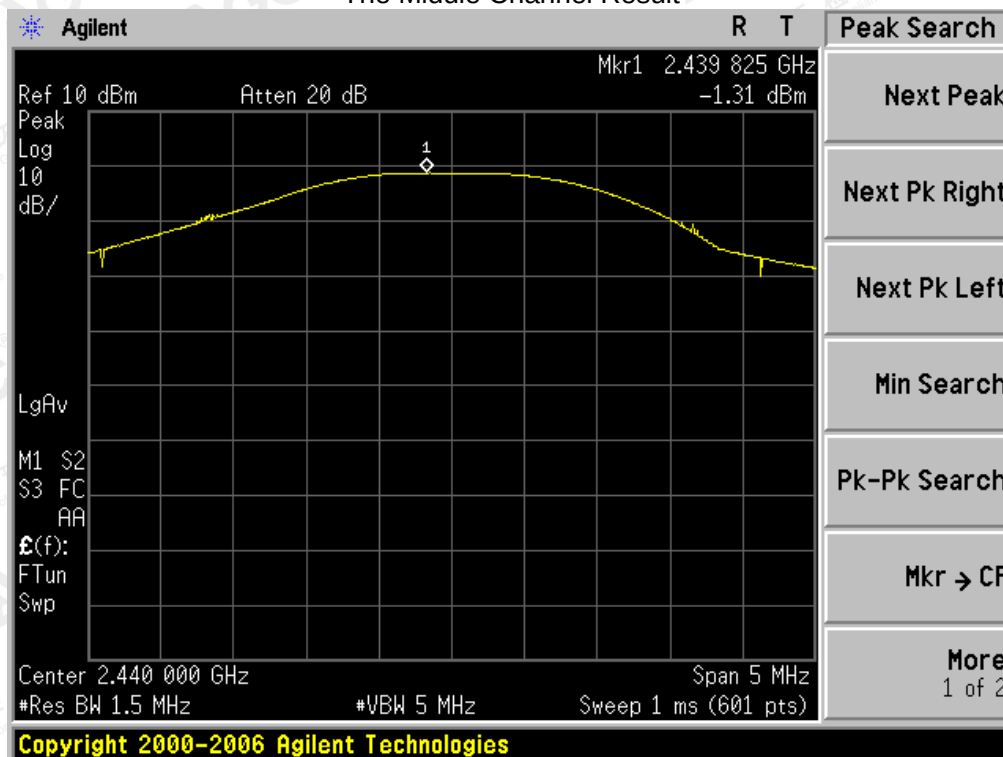
Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	-2.54	30	Pass
Middle Channel	-1.31	30	Pass
High Channel	-1.08	30	Pass

The Low Channel Result

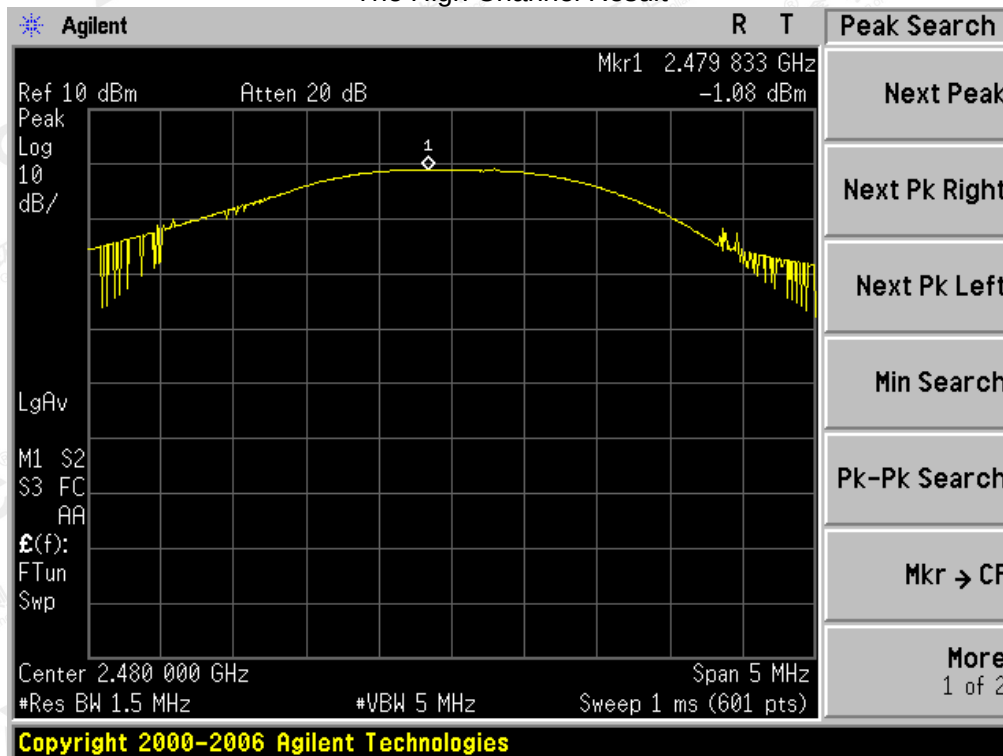


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The Middle Channel Result



The High Channel Result



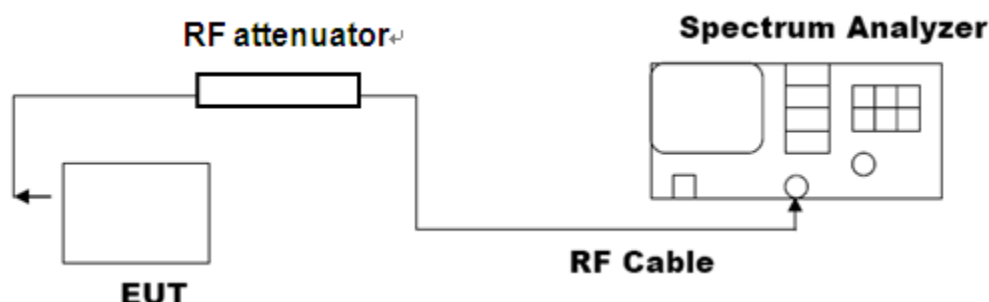
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12. CONDUCTED SPURIOUS EMISSION

12.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
RBW = 100kHz; VBW $\geq$ 3 RBW; Sweep = auto; Detector function = peak.
4. Set SPA Trace 1 Max hold, then View.

12.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

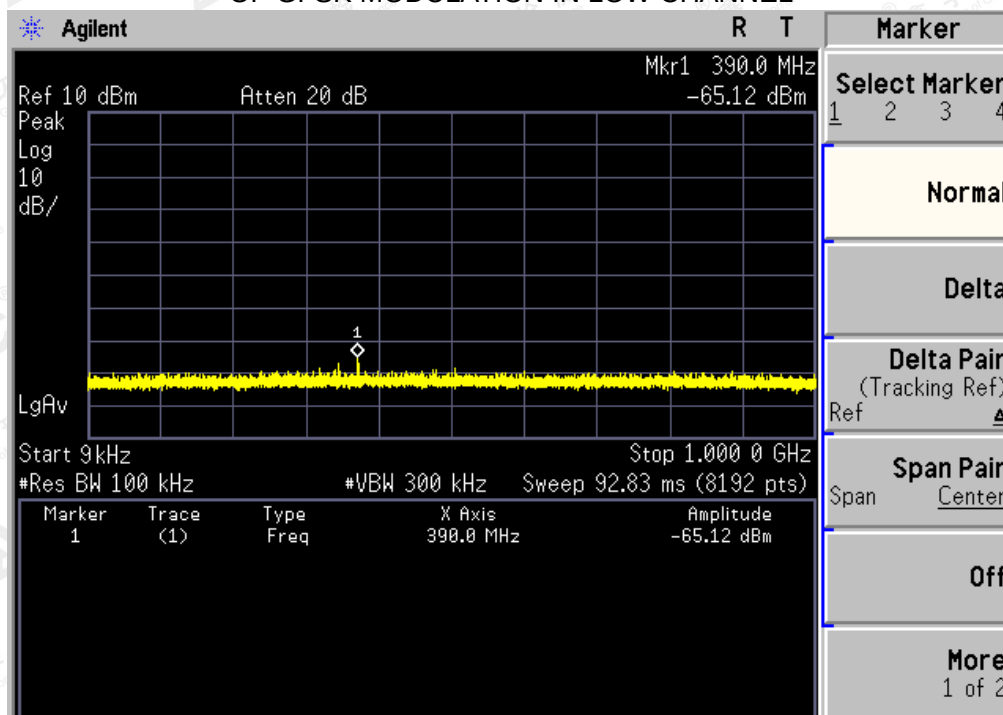


12.3. LIMITS AND MEASUREMENT RESULT

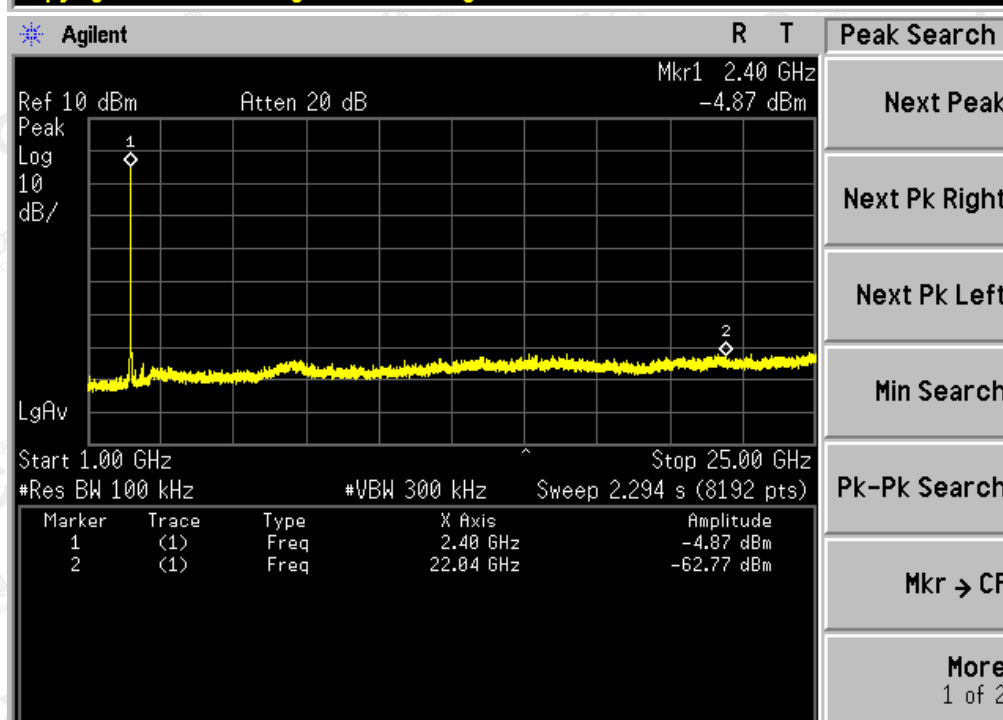
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Result
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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)	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF GFSK MODULATION IN LOW CHANNEL



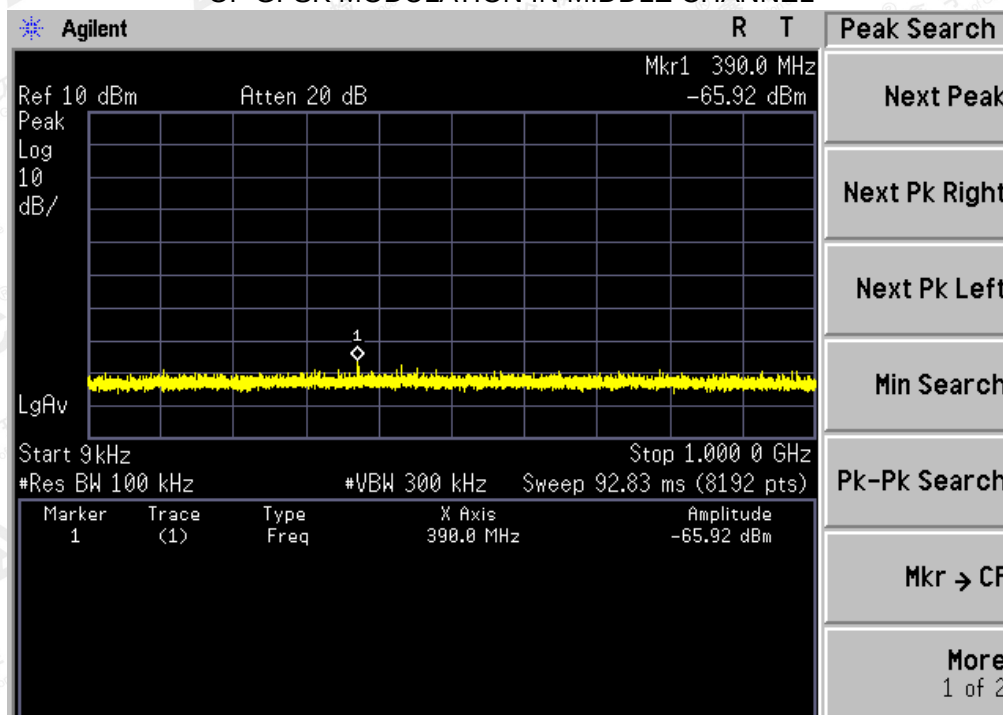
Copyright 2000-2006 Agilent Technologies



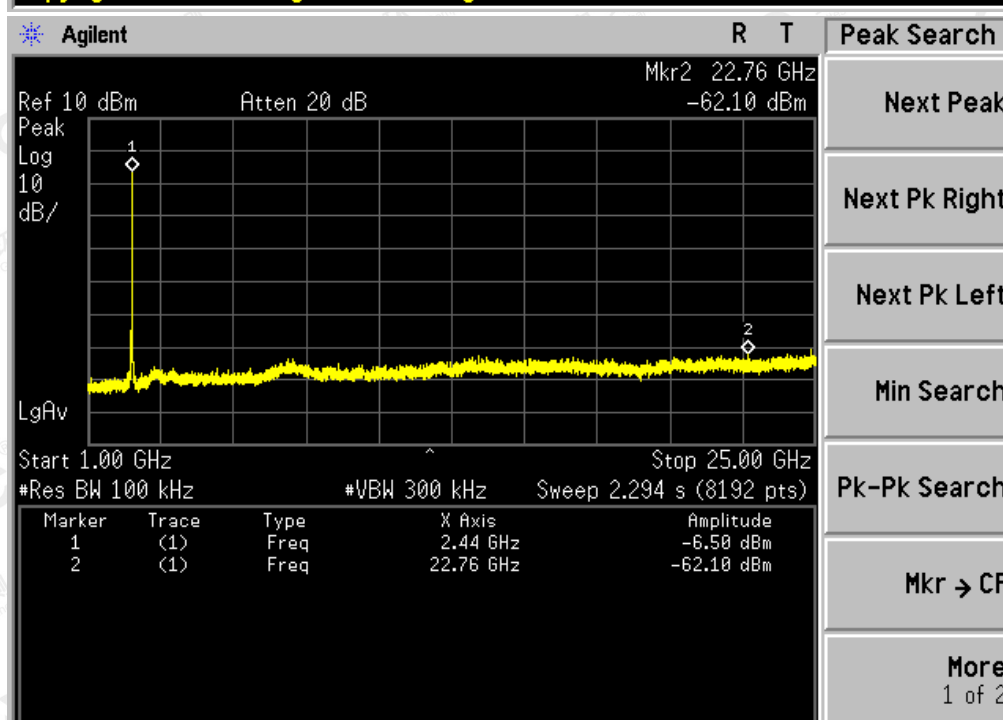
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TEST PLOT OF OUT OF BAND EMISSIONS
OF GFSK MODULATION IN MIDDLE CHANNEL



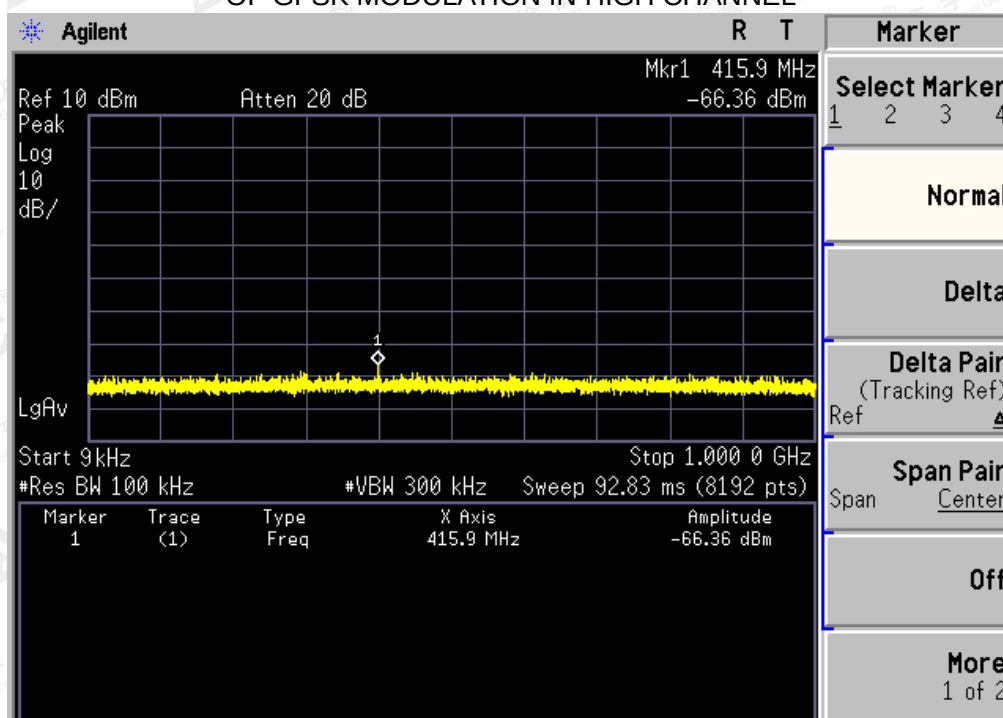
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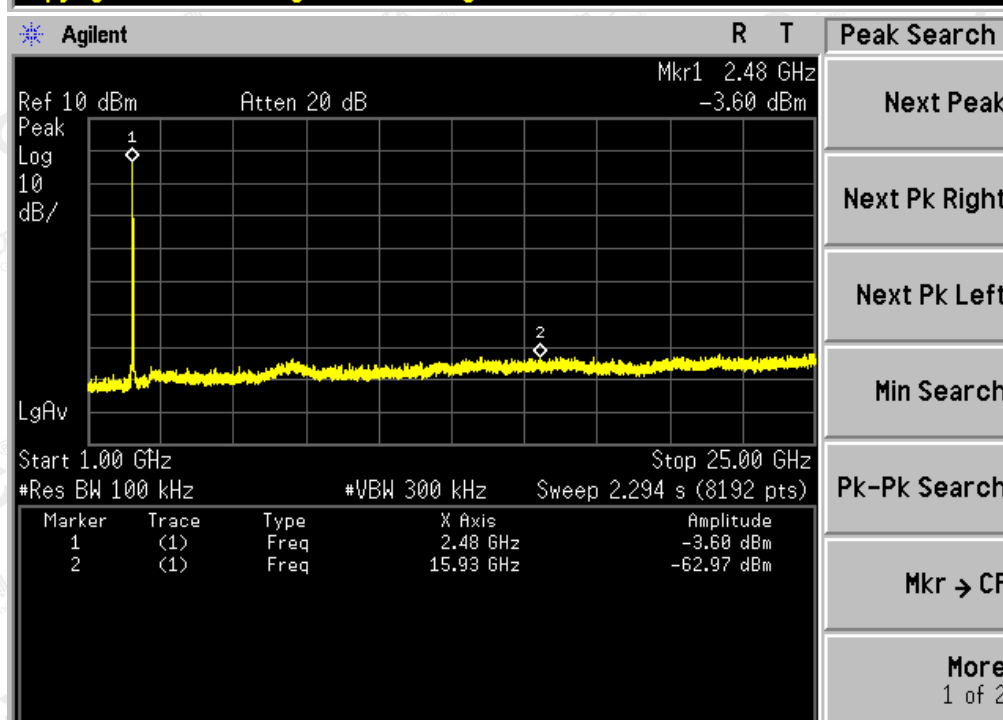
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TEST PLOT OF OUT OF BAND EMISSIONS
OF GFSK MODULATION IN HIGH CHANNEL



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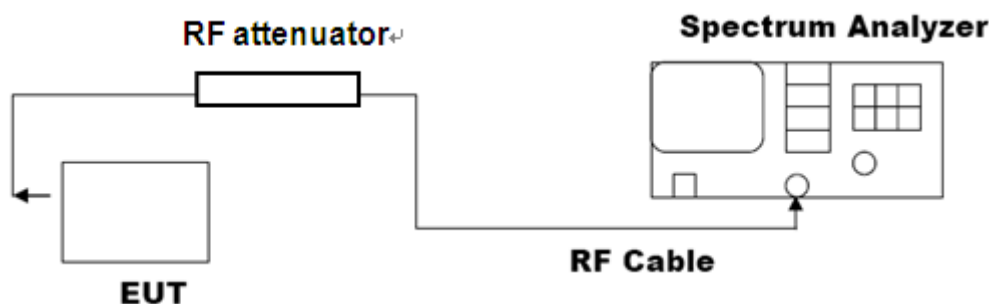
13. CONDUCTED OUTPUT POWER SPECTRAL DENSITY

13.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the span to 1.5times the DTS bandwidth, RBW: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$, VBW $\geq 3 \times \text{RBW}$
- (4). Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

13.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

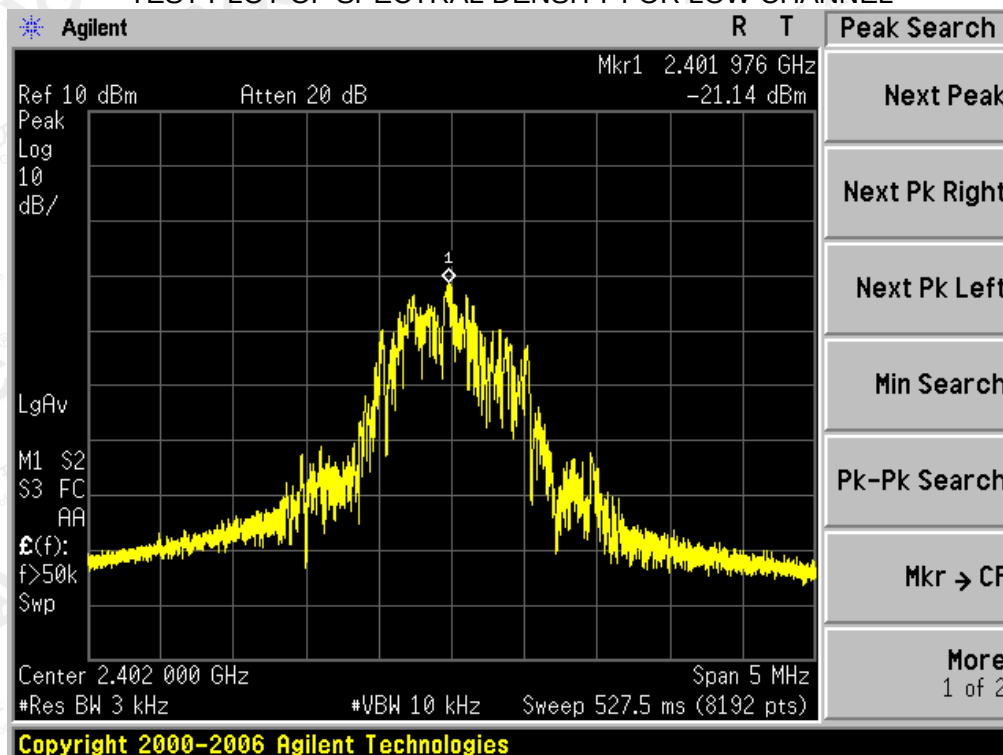


13.3 LIMITS AND MEASUREMENT RESULT

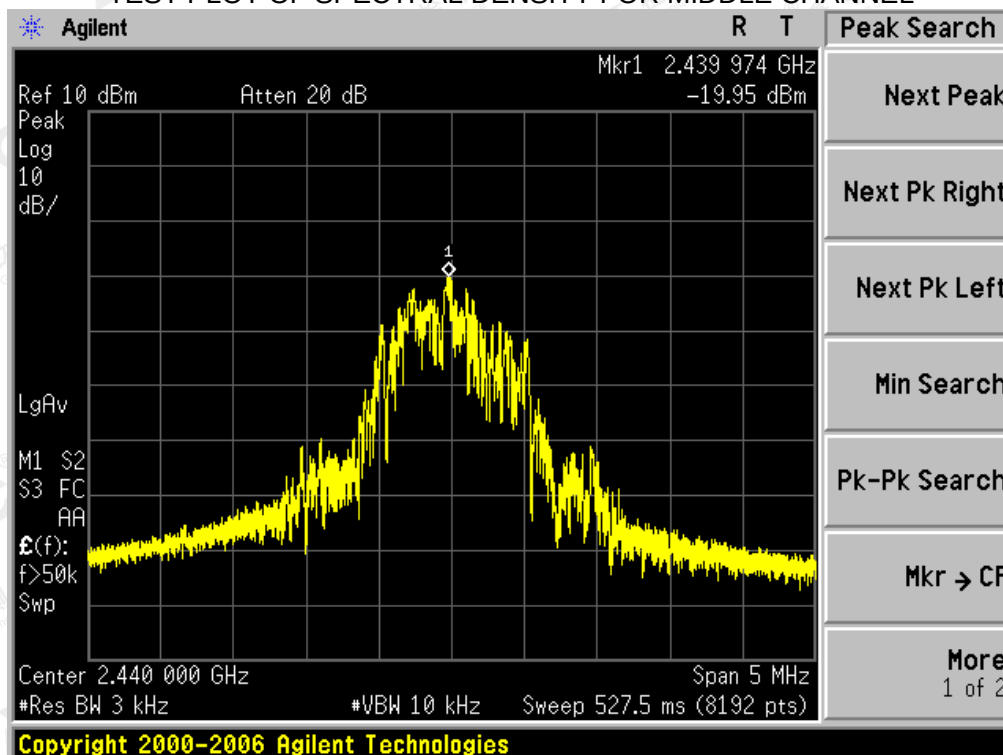
Channel No.	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
Low Channel	-21.14	8	Pass
Middle Channel	-19.95	8	Pass
High Channel	-19.96	8	Pass

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TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

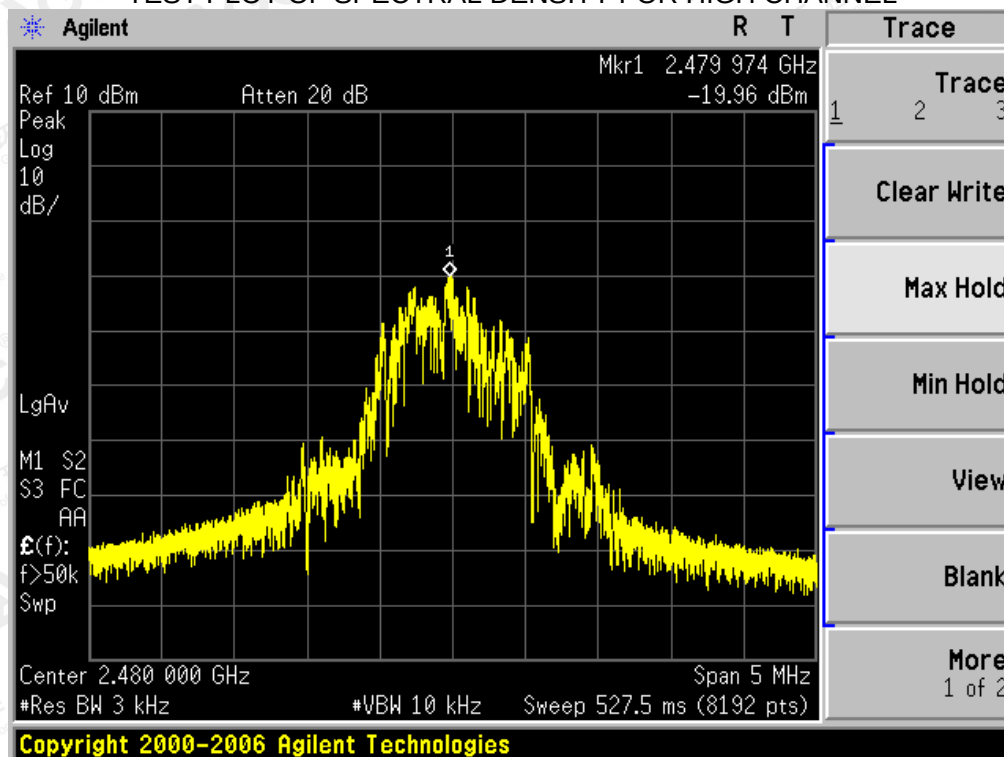


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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14. LINE CONDUCTED EMISSION TEST

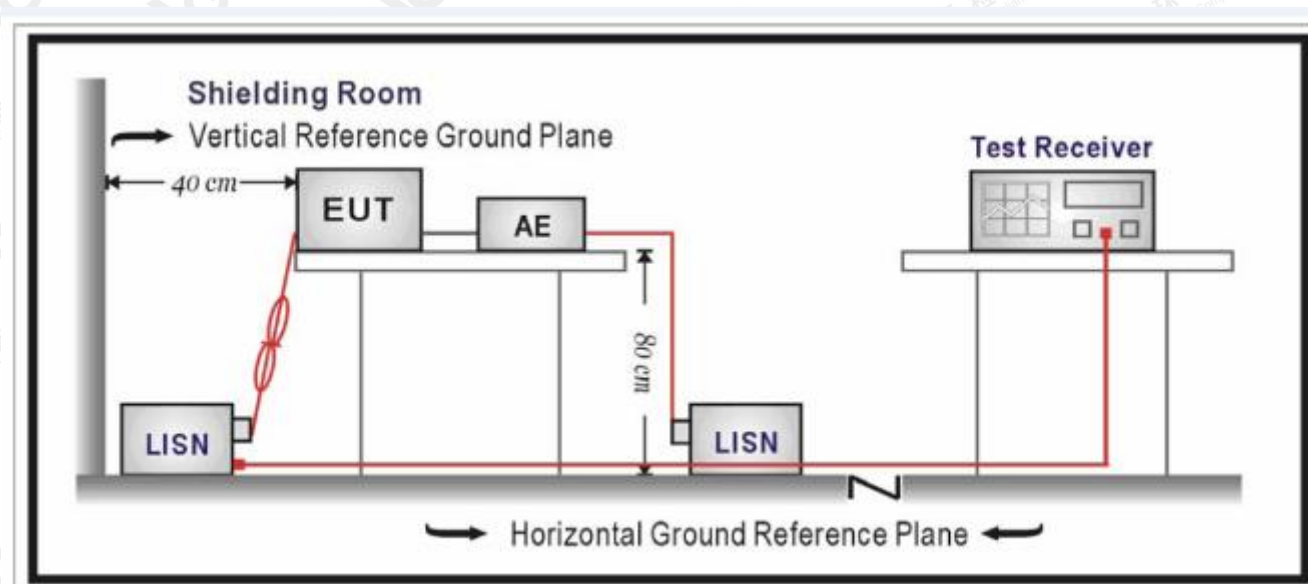
14.1 LIMITS

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

14.2 TEST SETUP



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14.3 PRELIMINARY PROCEDURE

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.10.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received DC charging voltage by PC or adapter which received 120V/60Hz power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test.
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

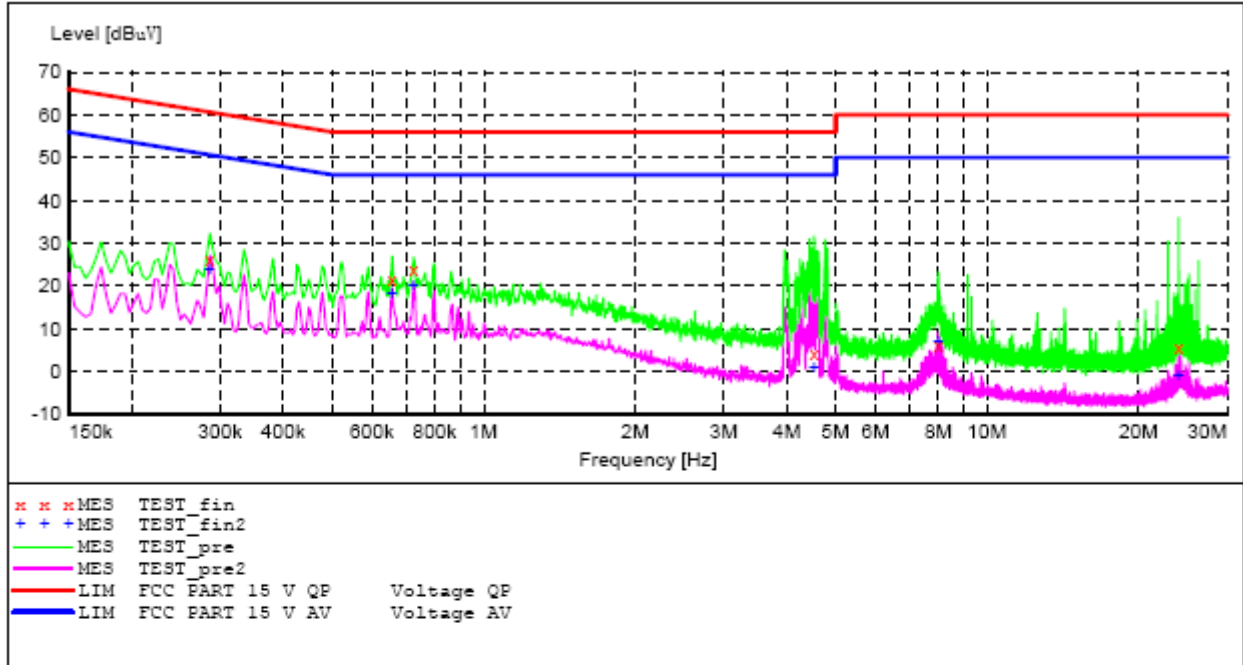
14.4 FINAL TEST PROCEDURE

- 1) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3) The test data of the worst case condition(s) was reported on the Summary Data page.

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14.5 TEST RESULT OF POWER LINE
By adapter (worst case)
FOR BLE

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

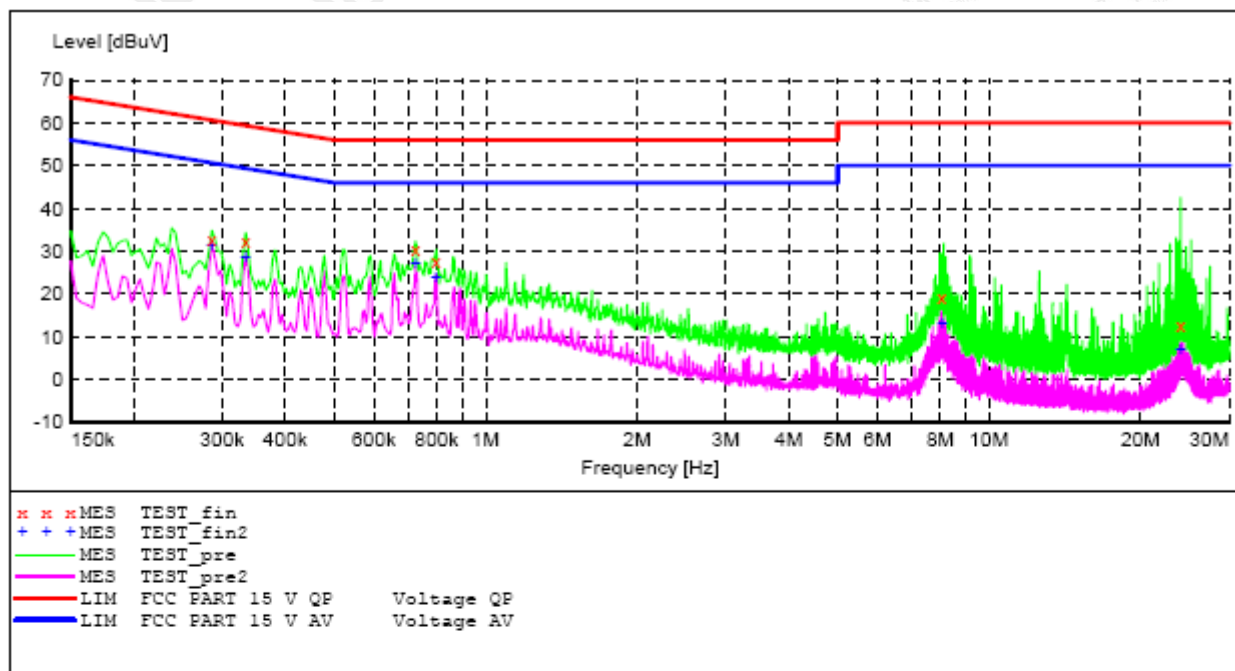
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000	26.20	10.1	61	34.4	QP	L1	FLO
0.658000	21.60	9.9	56	34.4	QP	L1	FLO
0.726000	23.70	9.9	56	32.3	QP	L1	FLO
4.534000	4.30	10.2	56	51.7	QP	L1	FLO
8.010000	6.00	10.1	60	54.0	QP	L1	FLO
23.994000	5.40	10.2	60	54.6	QP	L1	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000	24.10	10.1	51	26.5	AV	L1	FLO
0.658000	18.10	9.9	46	27.9	AV	L1	FLO
0.726000	20.00	9.9	46	26.0	AV	L1	FLO
4.534000	0.70	10.2	46	45.3	AV	L1	FLO
7.998000	7.10	10.1	50	42.9	AV	L1	FLO
23.994000	-1.00	10.2	50	51.0	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000	33.00	10.1	61	27.6	QP	N	FLO
0.334000	32.10	10.0	59	27.3	QP	N	FLO
0.726000	30.60	9.9	56	25.4	QP	N	FLO
0.798000	27.50	10.0	56	28.5	QP	N	FLO
8.062000	19.10	10.1	60	40.9	QP	N	FLO
23.994000	12.60	10.2	60	47.4	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000	31.20	10.1	51	19.4	AV	N	FLO
0.334000	28.40	10.0	49	21.0	AV	N	FLO
0.726000	27.00	9.9	46	19.0	AV	N	FLO
0.798000	23.80	10.0	46	22.2	AV	N	FLO
8.066000	13.00	10.1	50	37.0	AV	N	FLO
23.994000	7.00	10.2	50	43.0	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

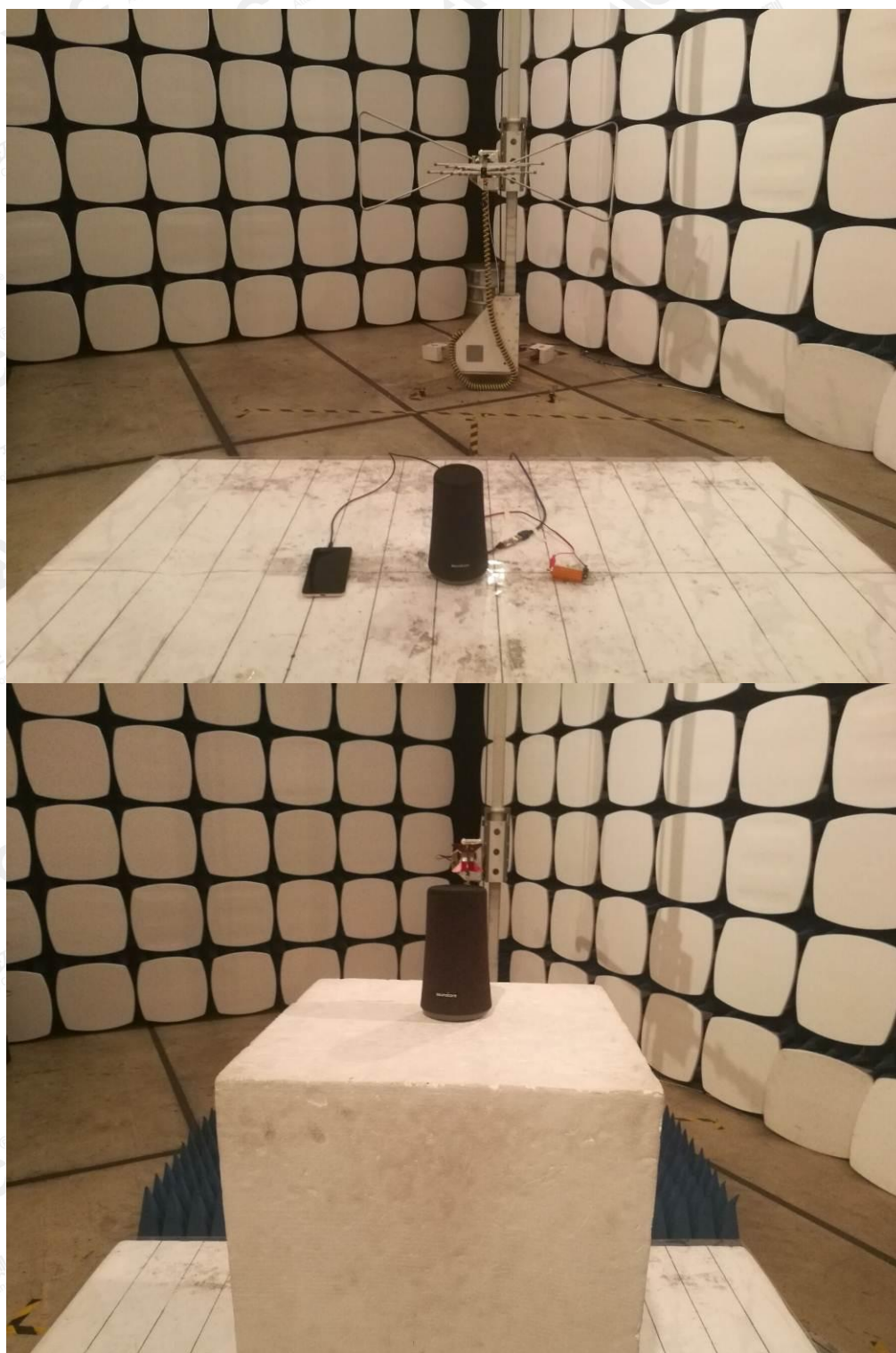
FCC LINE CONDUCTED EMISSION TEST SETUP



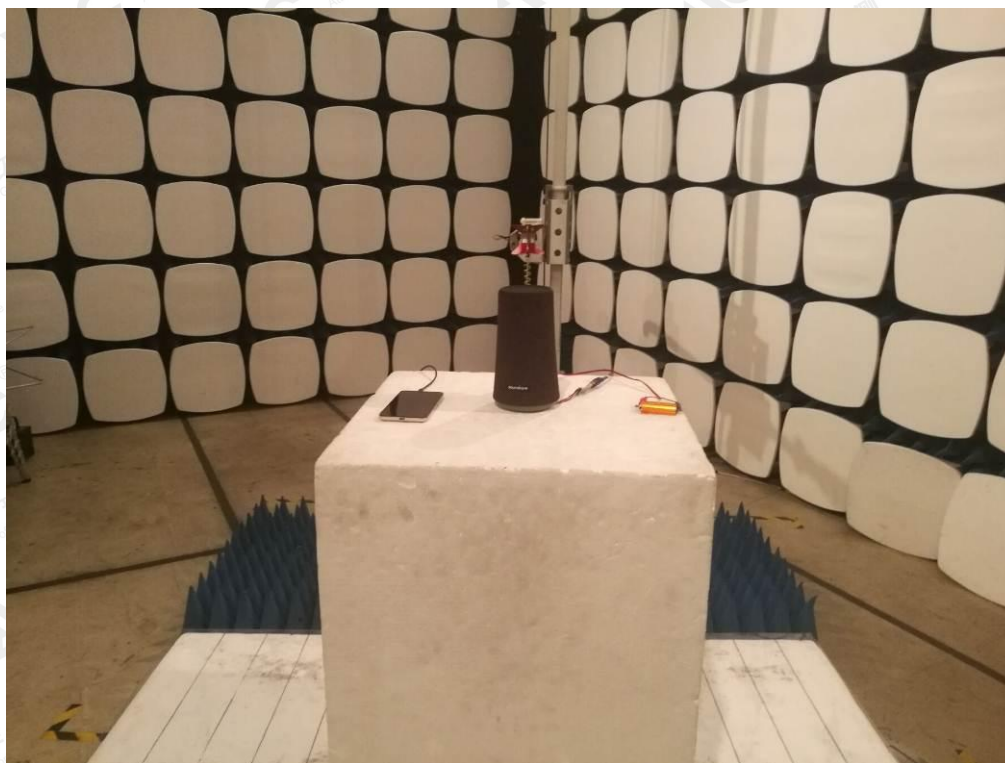
FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT

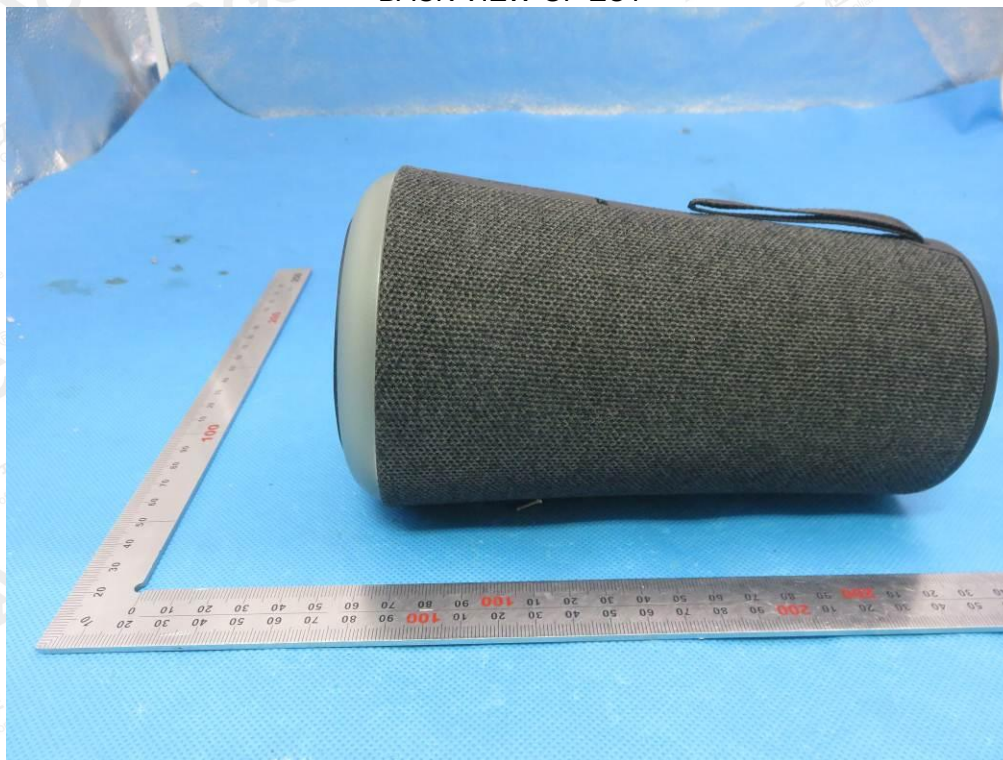


FRONT VIEW OF EUT



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BACK VIEW OF EUT

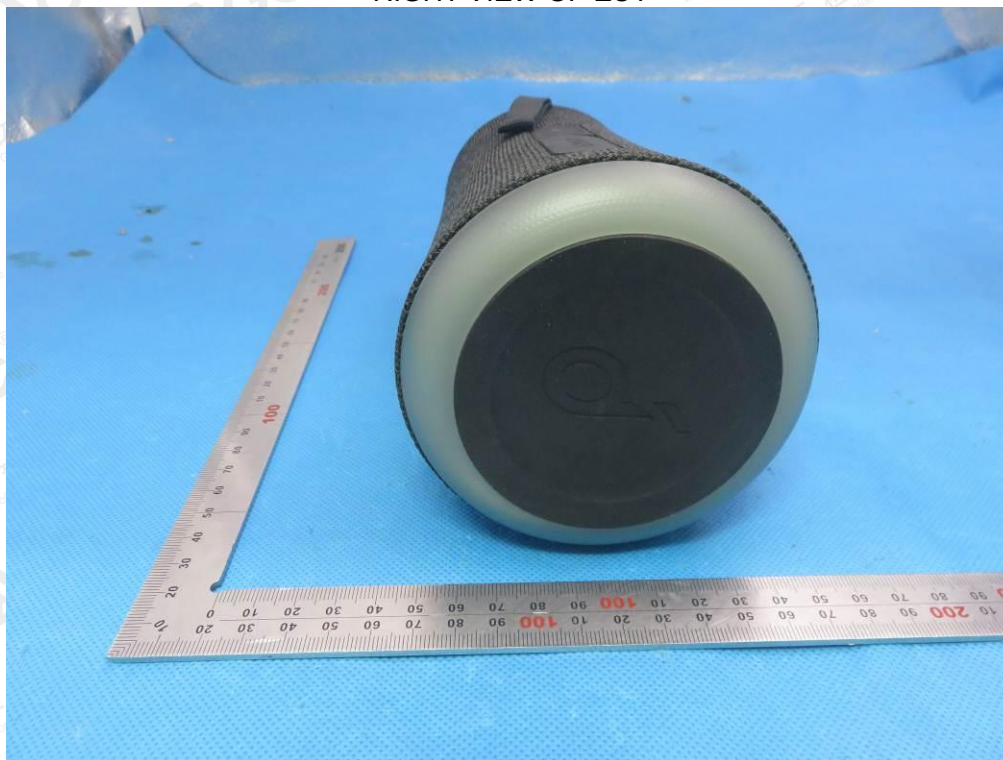


LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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OPEN VIEW OF EUT

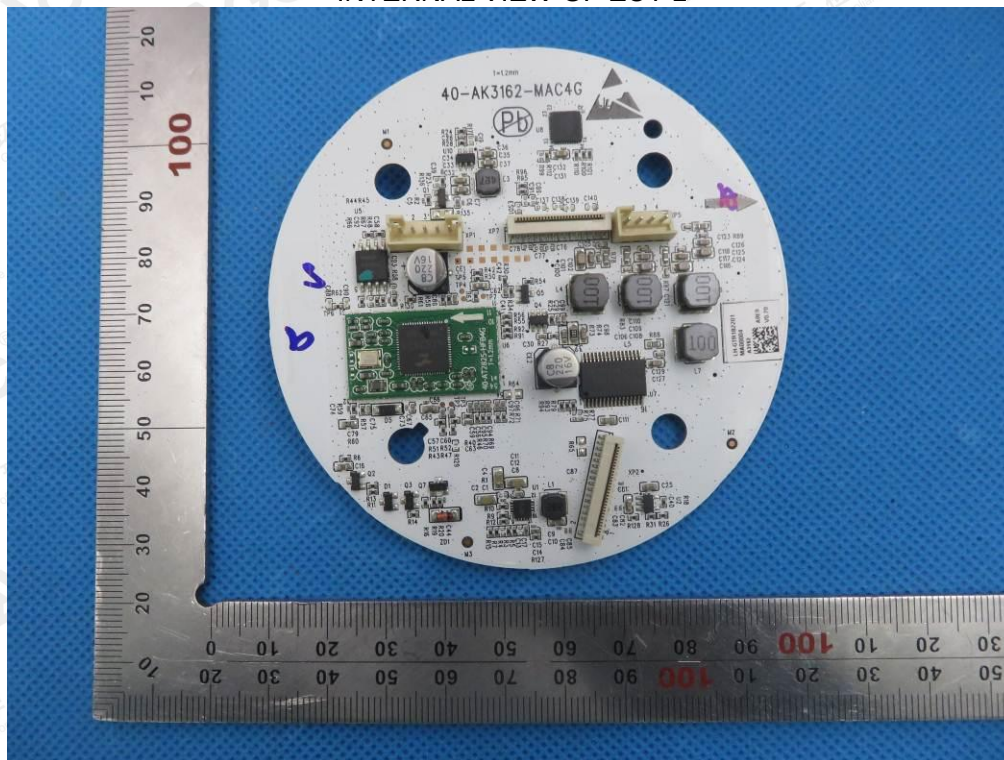


VIEW OF BATTERY

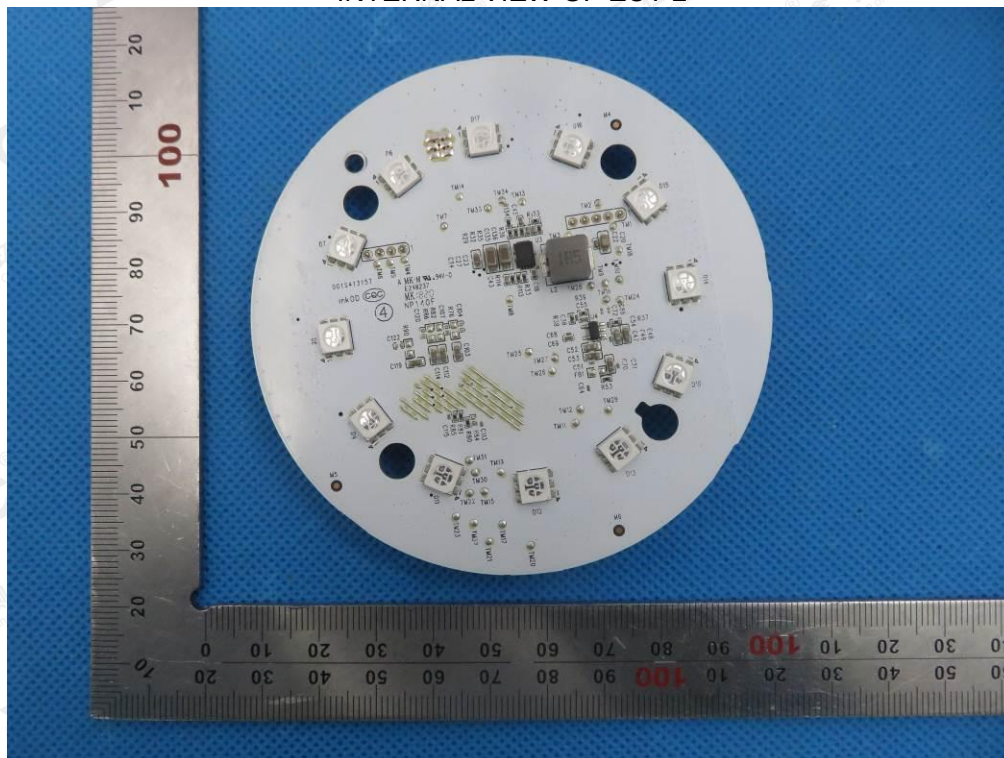


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INTERNAL VIEW OF EUT-1

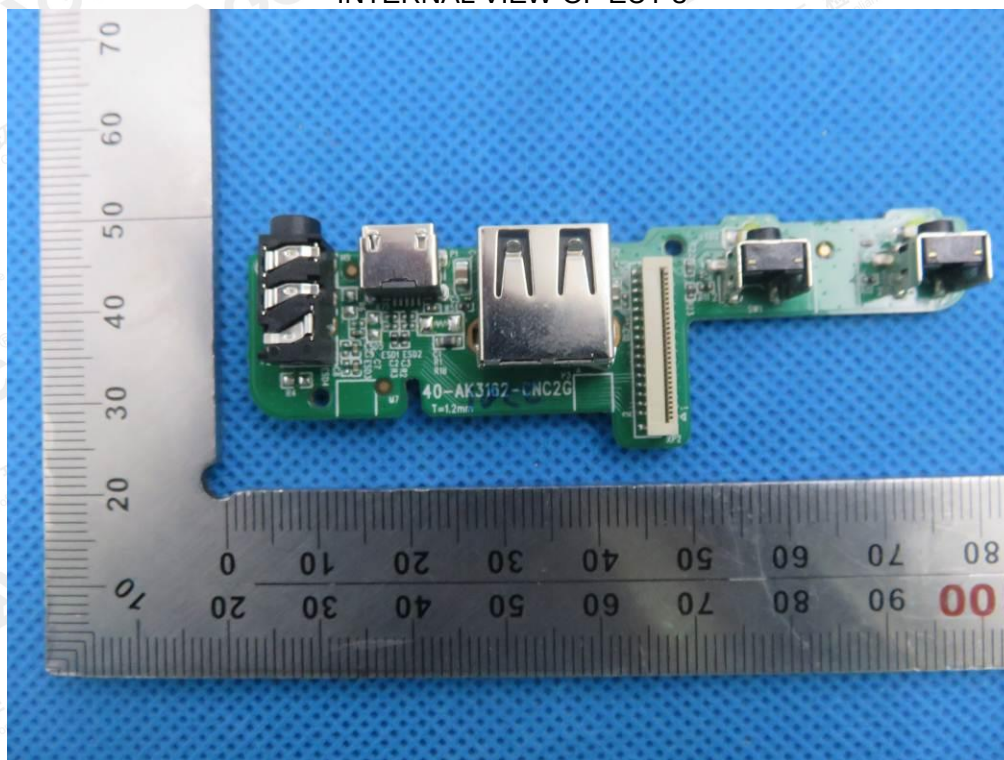


INTERNAL VIEW OF EUT-2

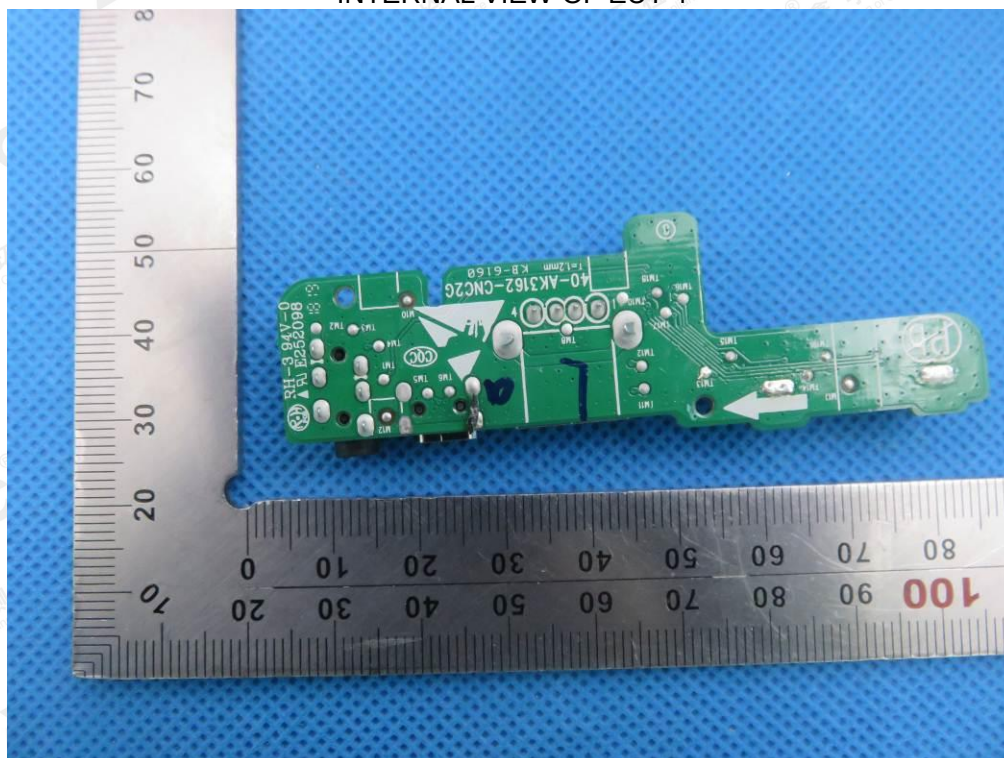


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INTERNAL VIEW OF EUT-3

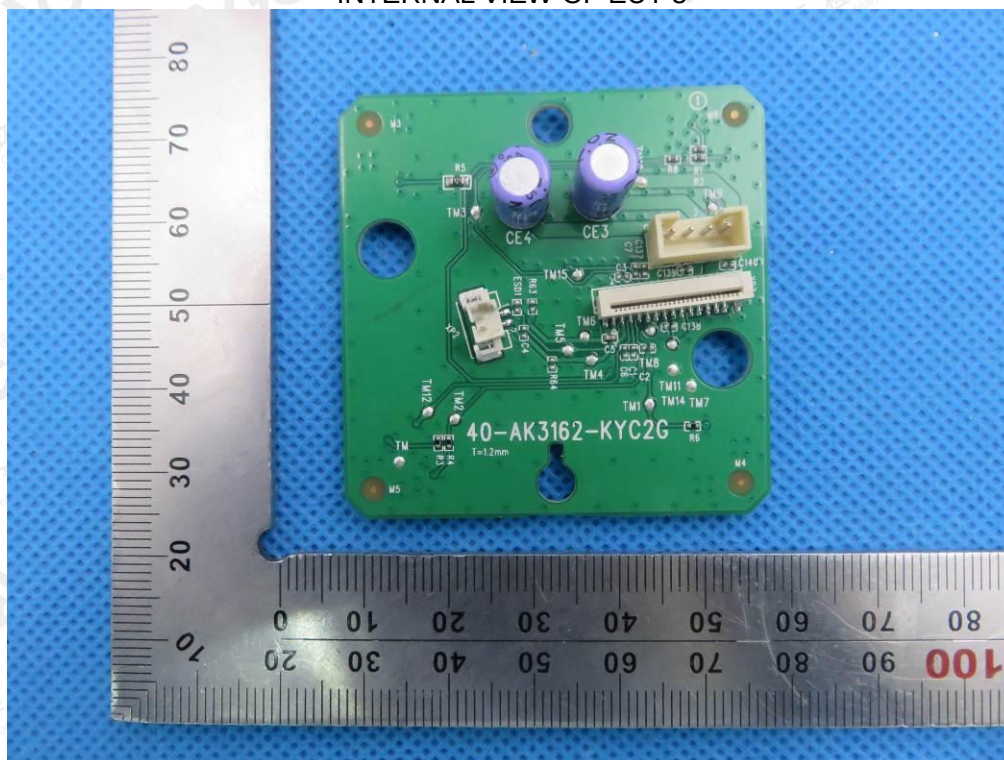


INTERNAL VIEW OF EUT-4

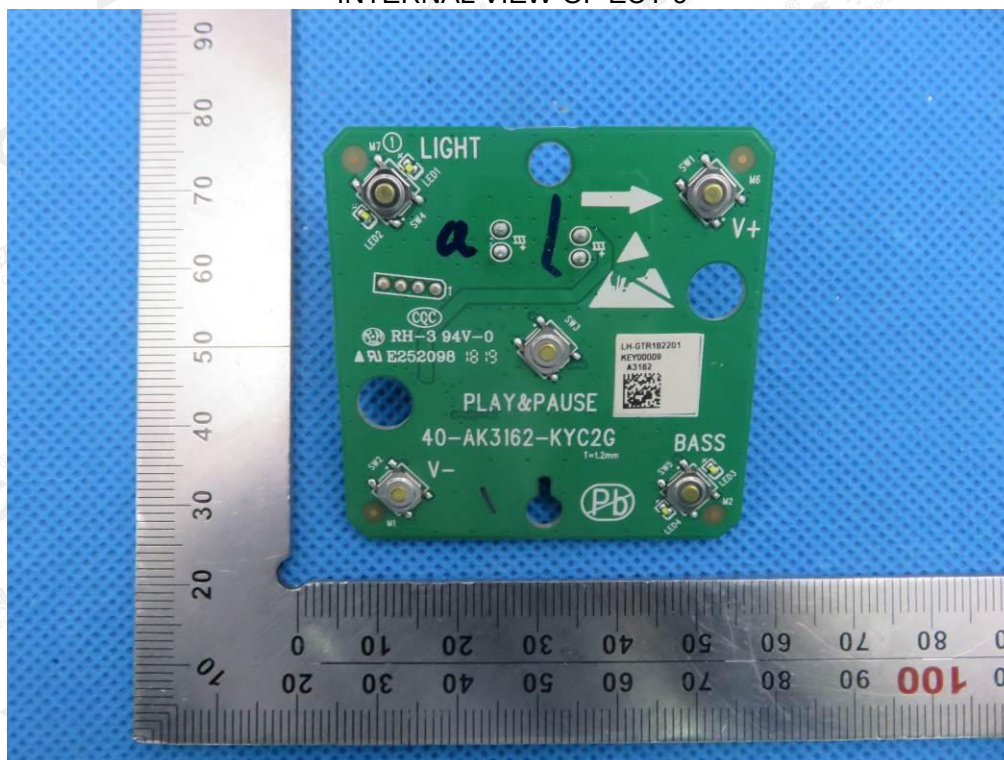


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INTERNAL VIEW OF EUT-5

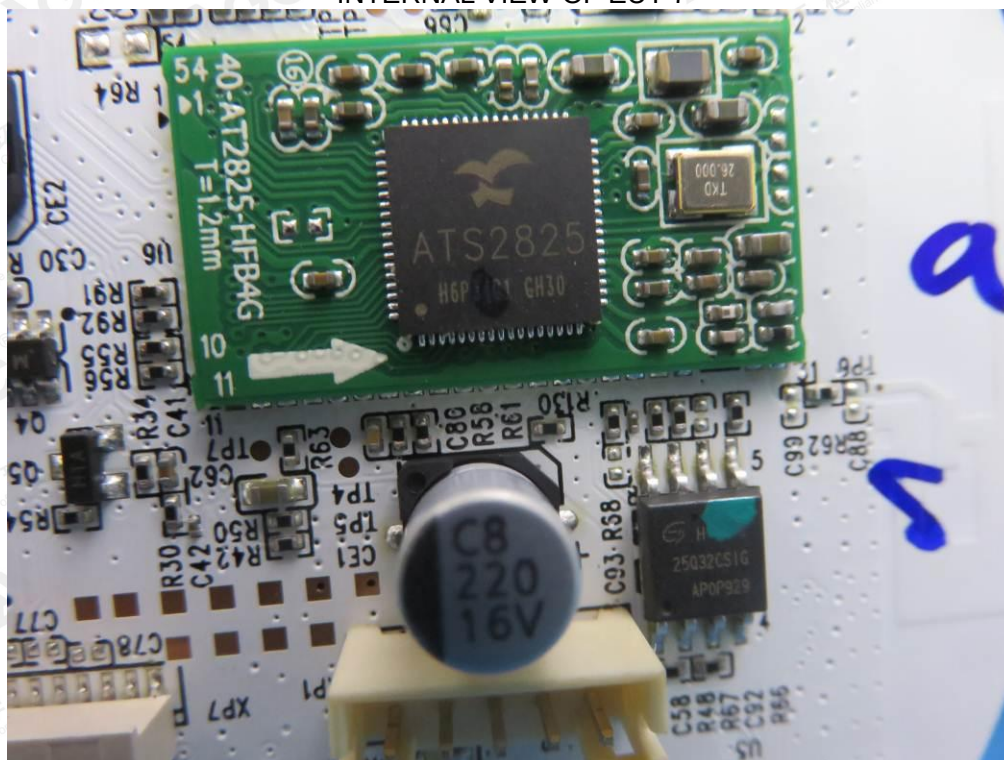


INTERNAL VIEW OF EUT-6

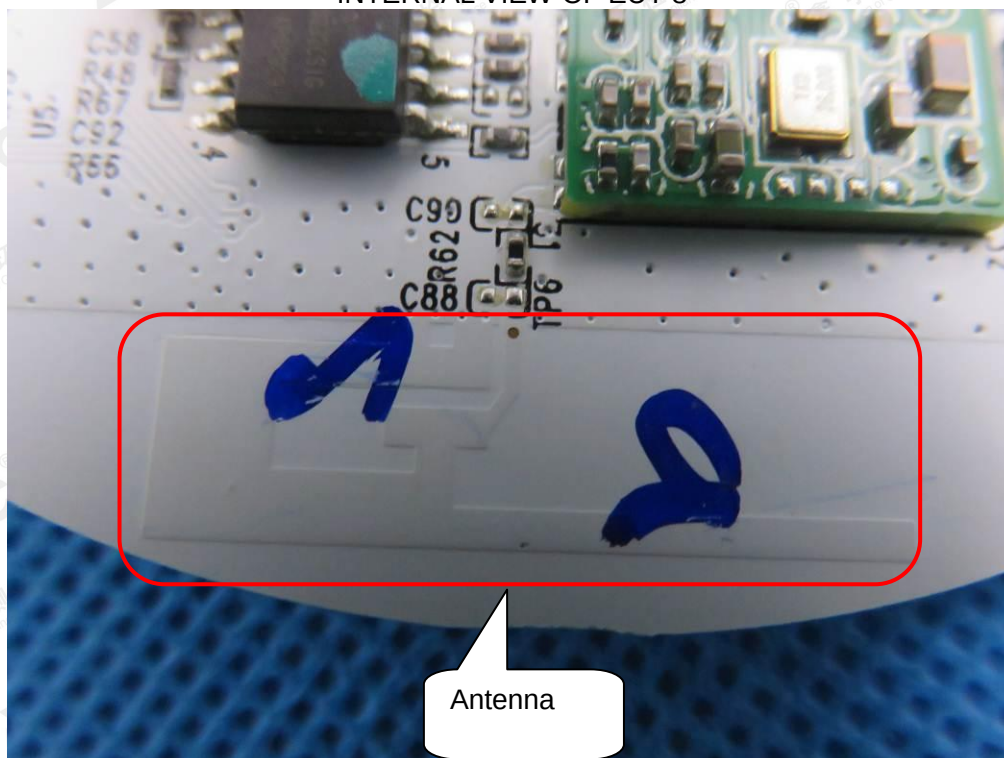


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INTERNAL VIEW OF EUT-7



INTERNAL VIEW OF EUT-8



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VIEW OF ADAPTER (AE)



Note: The adapter supplied by AGC, only used to test, belong to test accessories, will not be sold together with the product.

-----END OF REPORT-----