TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.

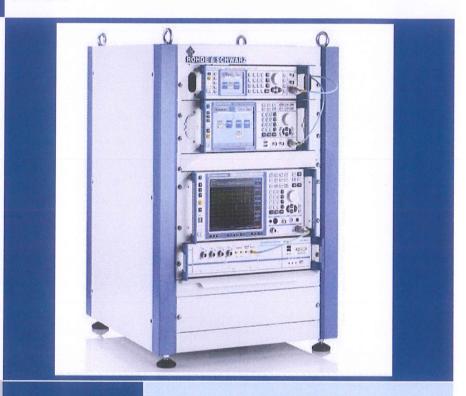


FOR

Unattended Payment Terminal

ISSUED TO Advanced Mobile Payment Inc.

Units 401-403, 15 Wertheim Court. Richmond Hill, Ontario L4B 3H7 CANADA



Tested by: Approved by (Chief Engineer)

Report No.: BL-SZ19B0502-601

EUT Name: Unattended Payment Terminal

Model Name: AMP 6500

Brand Name: AMP

Test Standard: 47 CFR Part 15 Subpart C

> FCC ID: 2AKJB-AMP6500-2

Test conclusion: Pass

Test Date:

Dec. 02, 2019 ~ Dec. 10, 2019

Date of Issue: Jan. 16, 2020

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Email: qc@baluntek.com www.baluntek.com



Revision History

 Version
 Issue Date
 Rev. 01

 Jan. 16, 2020
 In

Revisions Content Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
A ddroop	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Addless	Nanshan District, Shenzhen, Guangdong Province, P. R. China
	The laboratory has been listed by Industry Canada to perform
	electromagnetic emission measurements. The recognition numbers of
	test site are 11524A-1.
	The laboratory is a testing organization accredited by FCC as a
A	accredited testing laboratory. The designation number is CN1196.
Accreditation	The laboratory is a testing organization accredited by American
Certificate	Association for Laboratory Accreditation(A2LA) according to ISO/IEC
	17025.The accreditation certificate is 4344.01.
	The laboratory is a testing organization accredited by China National
	Accreditation Service for Conformity Assessment (CNAS) according to
	ISO/IEC 17025. The accreditation certificate number is L6791.
	All measurement facilities used to collect the measurement data are
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe
Description	Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative	450/ to 550/
Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v5.7.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Advanced Mobile Payment Inc.
A ddraga	Units 401-403, 15 Wertheim Court. Richmond Hill, Ontario L4B 3H7
Address	CANADA

2.2 Manufacturer Information

Manufacturer	Advanced Mobile Payment Inc.
Addraga	Units 401-403, 15 Wertheim Court. Richmond Hill, Ontario L4B 3H7
Address	CANADA

2.3 Factory Information

Factory	NEW POS TECHNOLOGY LIMITED DONGGUAN BRANCH, China
Address	No.8 Xintoulong Rd, Pingshan 188 Industry District, Tangxia Town,
Address	Dongguan, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Unattended Payment Terminal
Model Name Under Test	AMP 6500
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	AMP 6500-CB
Software Version	V1.0.5
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A



2.5 Technical Information

	2G Network GSM/GPRS/EGPRS 850/1900 MHz
	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5
Network and Wireless	4G Network FDD LTE Band 2/4/5/12/13
connectivity	Bluetooth 4.1 (BR+EDR+BLE)
	WIFI 802.11a, 802.11b, 802.11g, 802.11n Band 1/4 SRD
	NFC

The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	FHSS
Modulation Type	GFSK, ∏/4-DQPSK, 8-DPSK
	☐ Mobile
Product Type	□ Portable □
	☐ Fix Location
	DH5: 1 Mbps
Transfer Rate	2DH5: 2 Mbps
	3DH5: 3 Mbps
Frequency Range	The frequency range used is 2400 MHz to 2483.5 MHz.
Number of Channel	79 (at intervals of 1 MHz)
Tested Channel	0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz)
Antenna Type	PIFA Antenna
Antonno Coin	3 dBi (In test items related to antenna gain, the final results reflect
Antenna Gain	this figure.)
Antenna Impedance	50Ω
Antenna System	NI/A
(MIMO Smart Antenna)	N/A



All channel was listed on the following table:

Channel	Freq.	Channel	Freq.	Channel	Freq.	Channel	Freq.
number	(MHz)	number	(MHz)	number	(MHz)	number	(MHz)
0	2402	21	2423	42	2444	63	2465
1	2403	22	2424	43	2445	64	2466
2	2404	23	2425	44	2446	65	2467
3	2405	24	2426	45	2447	66	2468
4	2406	25	2427	46	2448	67	2469
5	2407	26	2428	47	2449	68	2470
6	2408	27	2429	48	2450	69	2471
7	2409	28	2430	49	2451	70	2472
8	2410	29	2431	50	2452	71	2473
9	2411	30	2432	51	2453	72	2474
10	2412	31	2433	52	2454	73	2475
11	2413	32	2434	53	2455	74	2476
12	2414	33	2435	54	2456	75	2477
13	2415	34	2436	55	2457	76	2478
14	2416	35	2437	56	2458	77	2479
15	2417	36	2438	57	2459	78	2480
16	2418	37	2439	58	2460	-	-
17	2419	38	2440	59	2461	-	-
18	2420	39	2441	60	2462	-	-
19	2421	40	2442	61	2463	-	-
20	2422	41	2443	62	2464	-	-



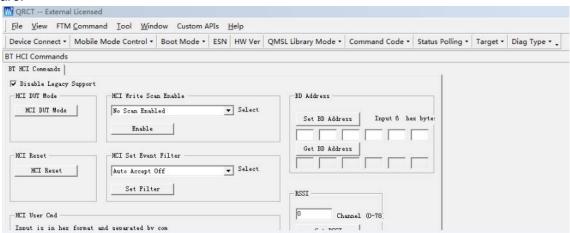
2.6 Additional Instructions

EUT Software Settings:

Mode	⊠ Bluetooth test mode loop back enabled.
ivioue	EUT is controlled over CBT / CMW.

Power level setup in software					
Test Software Version	QRCT				
Mode	Channel	Frequency (MHz)	Soft Set		
	CH0	2402			
DH5	CH39	2441			
	CH78	2480			
	CH0	2402	TX LEVEL is built-in set		
2DH5	CH39	2441	parameters and cannot be		
	CH78	2480	changed and selected.		
	CH0	2402			
3DH5	CH39	2441			
	CH78	2480			

Run Software:





3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
	(10-1-17 Edition)	Associated National Observation Lightness Allerian Devices
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
	KDB 558074 D01 15.247	Guidance for compliance measurements on digital transmission
3	Meas Guidance v05r02	system, frequency hopping spread spectrum system, and hybrid
	INICAS GUIDANCE VOSIOZ	system devices operating under section 15.247 of the FCC rules



3.2 Verdict

No.	Description	FCC Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A		Pass	Note 1
2	Number of Hopping Frequencies	15.247(a)	Hopping Mode	ANNEX A.1	Pass	Note ²
3	Peak Output Power and E.I.R.P	15.247(b)	Low/Middle/High	ANNEX A.2	Pass	
4	Occupied Bandwidth	15.247(a)	Low/Middle/High	ANNEX A.3	Pass	Note 2
5	Carrier Frequency Separation	15.247(a)	Hopping Mode	ANNEX A.4	Pass	Note ²
6	Time of Occupancy (Dwell time)	15.247(a)	Hopping Mode	ANNEX A.5	Pass	Note ²
7	Conducted Spurious Emission & Authorized-band band- edge	15.247(d)	Low/Middle/High	ANNEX A.6	Pass	Note ²
8	Conducted Emission	15.207	Low/Middle/High	ANNEX A.7	Pass	Note 2
9	Radiated Spurious Emission	15.209 15.247(d)	Hopping Mode, Low/Middle/High	ANNEX A.8	Pass	Note ²
10	Band Edge(Restricted- band band-edge)	15.209 15.247(d)	Hopping Mode, Low/Middle/High	ANNEX A.9	Pass	Note ²
11	Receiver Spurious Emissions				N/A	Note ³

Note 1: Please refer to section 5.1

Note 2 : $\Pi/4$ -DQPSK is the EDR 2M rate mode, 8-DPSK is the EDR 3M rate mode. The consistency of test results in $\Pi/4$ -DQPSK and 8-DPSK is very high. So we chose 8-DPSK as a typical representative to appear on the report. Another we will show all the modes on the RF output power test item. Note 3 : Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable. Note 4 : Because the RF module installed in the EUT is electronically and mechanically identical to the original certified module in the test report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), so just Conducted Emission & Radiated Spurious Emission & Band Edge(Restricted-band band-edge) were retested in this report. Other test items please refer to the No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017).



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% to 55%		
Atmospheric Pressure	100 kPa to 102 kPa		
Temperature	NT (Normal Temperature)	+22°C to +25°C	
Working Voltage of the EUT	NV (Normal Voltage)	12 V	

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2019.06.13	2020.06.12
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2019.06.13	2020.06.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2019.10.29	2020.10.28
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2019.06.13	2020.06.12
LISN	SCHWARZBECK	NSLK 8127	8127-687	2019.06.13	2020.06.12
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2019.06.13	2020.06.12
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2019.06.18	2020.06.17
Power Splitter	KMW	DCPD-LDC	1305003215		
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2019.06.13	2020.06.12
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	2019.01.09	2020.01.08
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	2019.01.09	2020.01.08
Temperature Chamber	AHK	SP20	1412	2019.06.24	2020.06.23
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.11.09	2020.11.08
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2018.08.22	2020.08.21
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10
Test Antenna- Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7 .35m	N/A	2018.07.19	2020.07.18
Shielded Enclosure	ChangNing	CN-130701	130703		
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2019.08.23	2020.08.22
Power Amplifier	OPHIR RF	5225F	1037	2019.02.28	2020.02.27
Power Amplifier	OPHIR RF	5273F	1016	2019.02.28	2020.02.27
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Sound Level Meter	B&K	NL-20	00844023	2019.11.12	2020.11.11
Ear Simulator	B&K	4185	2409449	2019.11.12	2020.11.11



Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Ear Simulator	B&K	4195	2418189	2019.11.12	2020.11.11
Audio analyzer	B&K	UPL 16	100129	2019.11.12	2020.11.11
Software	BALUN	BL410	-	-	-
Cable	ROHDE&SCHWARZ	JUNFLON	APR0914004	2019.01.09	2020.01.08

Note: The Test Equipment List please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 4 List of Measuring Equipment.**

4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

Note: The Measurement Uncertainty please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 5 Uncertainty of Evaluation.**

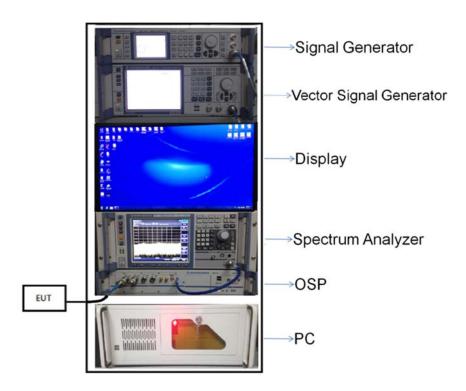


4.4 Description of Test Setup

4.4.1 For Antenna Port Test

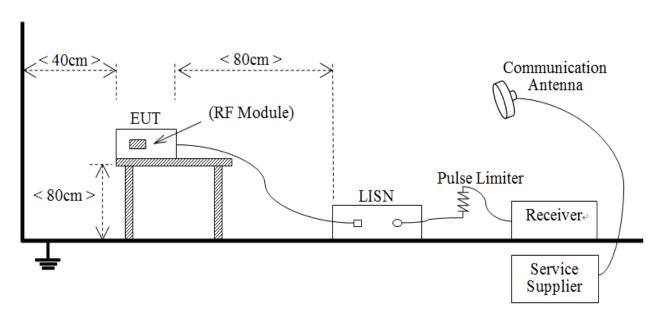
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT: Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



(Diagram 1)

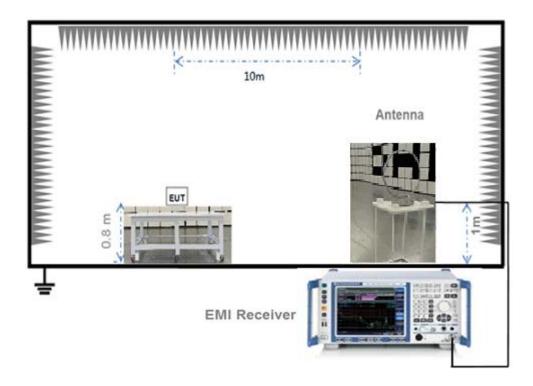
4.4.2 For AC Power Supply Port Test



(Diagram 2)

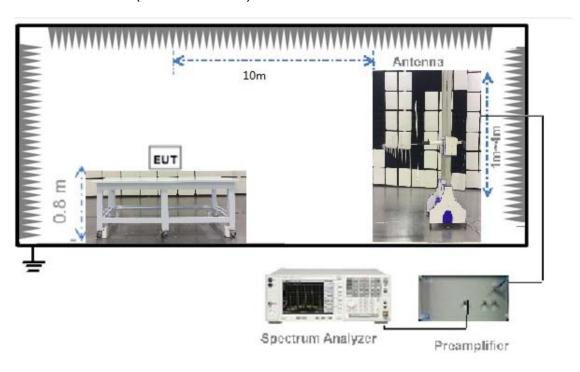


4.4.3 For Radiated Test (Below 30 MHz)



(Diagram 3)

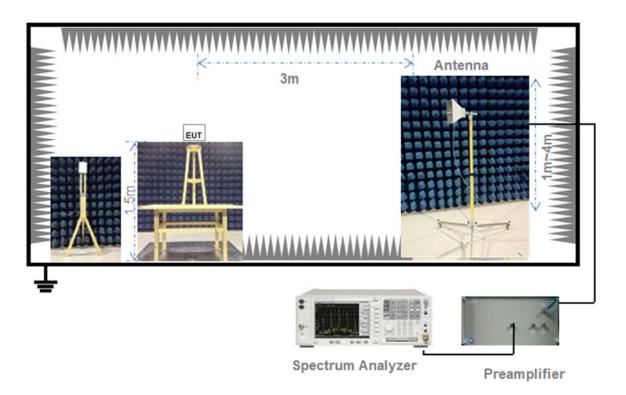
4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)



4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)



4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.



5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b); RSS-247, 5.4 (f)

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 § 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 § 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.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the	An embedded-in antenna design is used.
product.	

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



5.2 Frequency Hopping Systems

5.2.1 Relevant Standards

FCC §15.247(a) (1) (i) (ii) (iii) (iv); FCC §15.247(g); FCC §15.247(h)

Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, to demonstrate that the sequence meets the requirement specified in the definition of an FHSS system. Per the definition in Section 2.1(c), the hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

Describe how the associated receiver(s) complies with the requirement that the input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal.

Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals.

For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts, and shall be designed to comply when presented with continuous data (or information) stream.

Describe how the EUT complies with the requirement that it not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

5.2.2 Description of the systems

- According to the preset procedure of the whole network, all the stations in the automatic control network synchronously change the frequency multiple times within one second, and temporarily stay on each frequency hopping channel. Periodic synchronization signaling is sent from the primary station, instructing all slaves to simultaneously change the operating frequency, then the hopping sequence is generated.
- 2. The hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

Reference Documents		
N/A	N/A	

- 3. Channels are classified into two categories, used and unused, where used channels are part of the hopping sequence and unused channels are replaced in the hopping sequence by used channels in a pseudorandom way. Make each individual EUT meets the requirement that each of its hopping channels is used equally on average.
- 4. The input bandwith and transmitted bandwith are both 1MHz, the associated receiver(s) complies with the requirement that the input bandwidth matches the bandwidth of the transmitted signal.
- 5. Connected devices communicate on the same physical channel by synchronizing with a common clock and hopping sequence.
- 6. EUT isn't short burst systems.
- 7. EUT can't have the ability to be coordinated with other FHSS systems in an effort.



5.3 Number of Hopping Frequencies

5.3.1 Limit

FCC §15.247(a) (1) (iii); RSS-247, 5.1 (d)

Frequency hopping systems operating in the 2400 MHz to 2483.5 MHz bands shall use at least 15 hopping frequencies.

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = The frequency band of operation

RBW = To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.3.4 Test Result

Please refer to ANNEX A.1.



5.4 Peak Output Power and E.I.R.P

5.4.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

RSS-247, 5.4 (b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W and the e.i.r.p. shall not exceed 0.5 W if the hopset uses less than 75 hopping channels (see Section 5.4(5) for exceptions).

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.2.



5.5 Occupied Bandwidth

5.5.1 Limit

FCC §15.247(a); RSS-247, 5.1 (a)

Measurement of the 20dB bandwidth of the modulated signal.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.5.4 Test Result

Please refer to ANNEX A.3.



5.6 Carrier Frequency Separation

5.6.1 Limit

FCC §15.247(a); RSS-247, 5.1 (b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 2/3 of the 20 dB bandwidth of the hopping channel, whichever is greater.

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span

Video (or Average) Bandwidth (VBW) ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.6.4 Test Result

Please refer to ANNEX A.4.



5.7 Time of Occupancy (Dwell time)

5.7.1 Limit

FCC §15.247(a); RSS-247, 5.1 (d)

Frequency hopping systems in the 2400 MHz - 2483.5 MHz band shall use at least 15 non-overlapping channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

Span: Zero span, centered on a hopping channel

RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel

Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel

Detector function: Peak

Trace: Max hold

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

The average time of occupancy on any channel within the Period can be calculated with formulas:

For GFSK and 8-DPSK:

For DH1 package type

```
{Total of Dwell} = {Pulse Time} * (1600 / 2) / {Number of Hopping Frequency} * {Period} 
{Period} = 0.4 s * {Number of Hopping Frequency}
```

For DH3 package type

```
{Total of Dwell} = {Pulse Time} * (1600 / 4) / {Number of Hopping Frequency} * {Period} 
{Period} = 0.4 s * {Number of Hopping Frequency}
```

For DH5 package type

```
{Total of Dwell} = {Pulse Time} * (1600 / 6) / {Number of Hopping Frequency} * {Period} 
{Period} = 0.4 s * {Number of Hopping Frequency}
```

For AFH Mode:

For DH1 package type

```
\{ \text{Total of Dwell} \} = \{ \text{Pulse Time} \} * (800 / 2) / \{ \text{Number of Hopping Frequency} \} * \{ \text{Period} \} = 0.4 \text{ s * } \{ \text{Number of Hopping Frequency} \}
```

For DH3 package type

```
{Total of Dwell} = {Pulse Time} * (800 / 4) / {Number of Hopping Frequency} * {Period} 
{Period} = 0.4 s * {Number of Hopping Frequency}
```

For DH5 package type

```
{Total of Dwell} = {Pulse Time} * (800 / 6) / {Number of Hopping Frequency} * {Period}
```



{Period} = 0.4 s * {Number of Hopping Frequency}

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.7.4 Test Result

Please refer to ANNEX A.5



5.8 Conducted Spurious Emission & Authorized-band band-edge

5.8.1 Limit

FCC §15.247(d); RSS-247, 5.5

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.

5.8.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW = 300 kHz

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.8.4 Test Result

Please refer to ANNEX A.6.



5.9 Conducted Emission

5.9.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a $50\mu\text{H}/50\Omega$ line impedance stabilization network (LISN).

Frequency range	Conducted I	_imit (dBμV)
(MHz)	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.9.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.7.



5.10 Radiated Spurious Emission

5.10.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

- 1. Field Strength ($dB\mu V/m$) = 20*log[Field Strength ($\mu V/m$)].
- 2. In the emission tables above, the tighter limit applies at the band edges.
- For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW ≥ RBW



Sweep = auto Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.8.



5.11 Band Edge (Restricted-band band-edge)

5.11.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.11.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.11.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.11.4 Test Result

Please refer to ANNEX A.9.



ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Note: The Number of Hopping Frequency please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 3.1 Number of Channel Measurement.**

A.2 Peak Output Power and E.I.R.P

Note: The Peak Output Power and E.I.R.P please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 3.5 Peak Output Power Measurement.**

A.3 20 dB and 99% bandwidth

Note: The 20 dB and 99% bandwidth please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 3.4 20dB Bandwidth**Measurement.

A.4 Hopping Frequency Separation

Note: The Hopping Frequency Separation please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 3.2 Hopping Channel Separation Measurement.**

A.5 Average Time of Occupancy

Note: The Average Time of Occupancy please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 3.3 Dwell Time**Measurement.

A.6 Conducted Spurious Emissions & Authorized-band band-edge

Note: The Conducted Spurious Emissions & Authorized-band band-edge please refer to the Report No. FR741007A (FCC ID: XMR201706SC20A) (which issued by Sporton International (KunShan) INC. on Aug. 11, 2017), **Section 3.6 Conducted Spurious Emissions Measurement.**



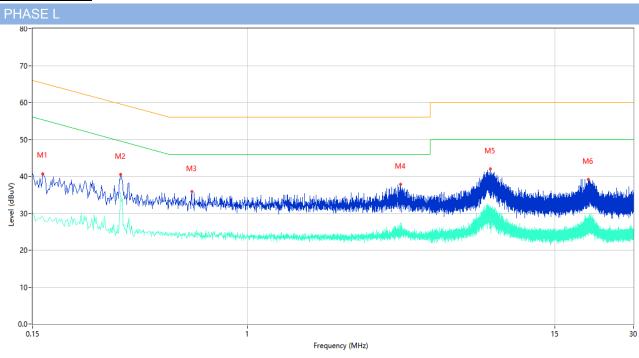
A.7 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode.

Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

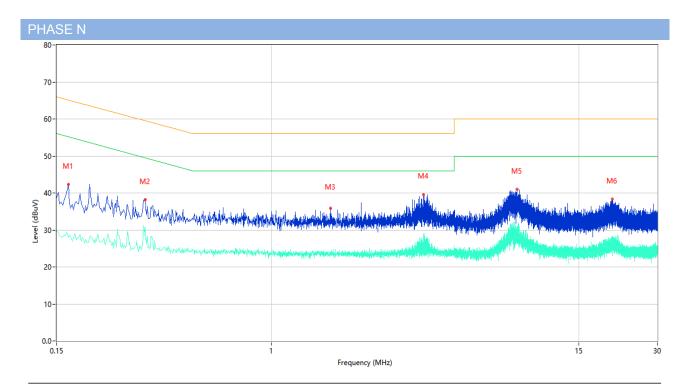
Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.164	40.69	10.40	65.26	-24.57	Peak	L	Pass
1**	0.164	29.11	10.40	55.26	-26.15	AV	L	Pass
2	0.326	40.52	10.33	59.55	-19.03	Peak	L	Pass
2**	0.326	35.63	10.33	49.55	-13.92	AV	L	Pass
3	0.610	35.80	10.29	56.00	-20.20	Peak	L	Pass
3**	0.610	24.81	10.29	46.00	-21.19	AV	L	Pass
4	3.852	37.93	10.29	56.00	-18.07	Peak	L	Pass
4**	3.852	26.46	10.29	46.00	-19.54	AV	L	Pass
5	8.496	42.01	10.36	60.00	-17.99	Peak	L	Pass
5**	8.496	27.46	10.36	50.00	-22.54	AV	L	Pass
6	20.120	39.25	10.55	60.00	-20.75	Peak	L	Pass
6**	20.120	25.92	10.55	50.00	-24.08	AV	L	Pass





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.166	42.28	10.40	65.16	-22.88	Peak	N	Pass
1**	0.166	27.94	10.40	55.16	-27.22	AV	N	Pass
2	0.328	38.17	10.33	59.50	-21.33	Peak	N	Pass
2**	0.328	30.71	10.33	49.50	-18.79	AV	N	Pass
3	1.676	35.83	10.26	56.00	-20.17	Peak	N	Pass
3**	1.676	24.08	10.26	46.00	-21.92	AV	N	Pass
4	3.822	39.56	10.29	56.00	-16.44	Peak	N	Pass
4**	3.822	29.00	10.29	46.00	-17.00	AV	N	Pass
5	8.702	40.95	10.36	60.00	-19.05	Peak	N	Pass
5**	8.702	27.00	10.36	50.00	-23.00	AV	N	Pass
6	20.182	38.40	10.56	60.00	-21.60	Peak	N	Pass
6**	20.182	26.76	10.56	50.00	-23.24	AV	N	Pass



A.8 Radiated Spurious Emission

Test Data and Plots

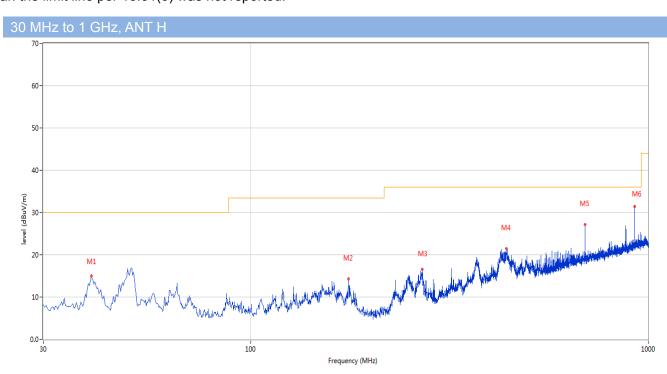
Note ¹: The symbol of "--" in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The EUT is working in the Normal link mode below 1 GHz.

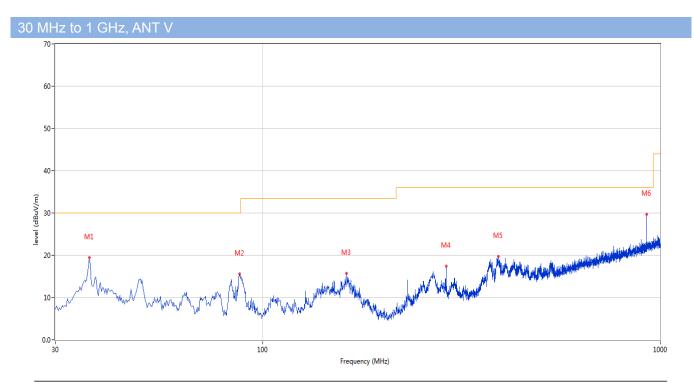
Note 4: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	39.698	14.99	-26.77	30.0	-15.01	Peak	140.00	100	Horizontal	Pass
2	176.191	14.25	-27.56	33.5	-19.25	Peak	360.00	100	Horizontal	Pass
3	269.773	16.53	-26.63	36.0	-19.47	Peak	105.00	300	Horizontal	Pass
4	439.480	21.49	-21.91	36.0	-14.51	Peak	185.00	200	Horizontal	Pass
5	694.041	27.13	-16.00	36.0	-8.87	Peak	16.00	100	Horizontal	Pass
6	925.329	31.36	-12.04	36.0	-4.64	Peak	175.00	100	Horizontal	Pass





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	36.546	19.45	-27.21	30.0	-10.55	Peak	0.00	300	Vertical	Pass
2	87.458	15.59	-31.05	30.0	-14.41	Peak	99.00	100	Vertical	Pass
3	162.129	15.76	-25.94	33.5	-17.74	Peak	129.00	100	Vertical	Pass
4	289.168	17.37	-26.07	36.0	-18.63	Peak	13.00	100	Vertical	Pass
5	390.750	19.69	-23.31	36.0	-16.31	Peak	220.00	100	Vertical	Pass
6	925.329	29.73	-12.04	36.0	-6.27	Peak	0.00	300	Vertical	Pass

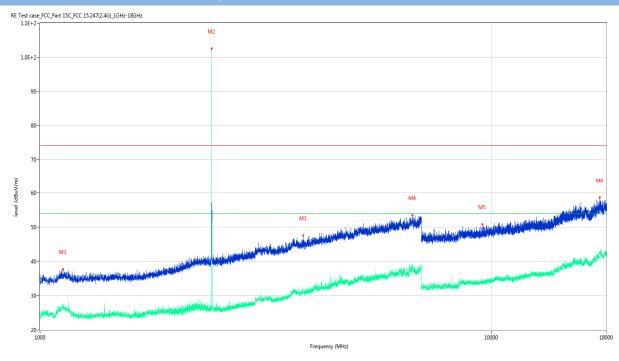


Test Data and Plots (1 GHz ~ 10th Harmonic)

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

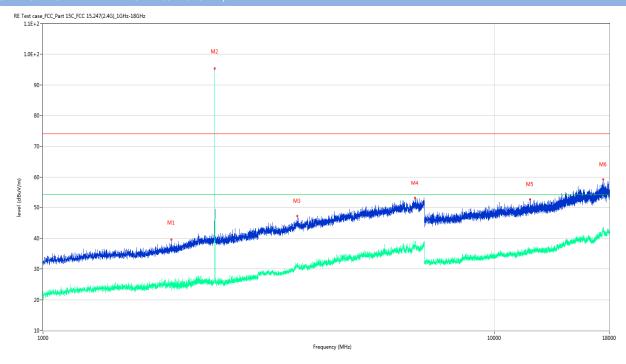
GFSK LOW CHANNEL 1 GHz to 18 GHz. ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1126.000	37.73	-18.55	74.0	-36.27	Peak	19.00	150	Horizontal	Pass
1**	1126.000	26.07	-18.55	54.0	-27.93	AV	19.00	150	Horizontal	Pass
2	2402.000	102.54	-12.11	74.0	28.54	Peak	304.00	150	Horizontal	N/A
2**	2402.000	97.35	-12.11	54.0	43.35	AV	304.00	150	Horizontal	N/A
3	3833.000	47.63	-4.55	74.0	-26.37	Peak	300.00	150	Horizontal	Pass
3**	3833.000	31.21	-4.55	54.0	-22.79	AV	300.00	150	Horizontal	Pass
4	6683.000	53.54	0.21	74.0	-20.46	Peak	321.00	150	Horizontal	Pass
4**	6683.000	38.20	0.21	54.0	-15.80	AV	321.00	150	Horizontal	Pass
5	9553.000	50.87	-0.19	74.0	-23.13	Peak	272.00	150	Horizontal	Pass
5**	9553.000	34.06	-0.19	54.0	-19.94	AV	272.00	150	Horizontal	Pass
6	17414.625	58.77	4.72	74.0	-15.23	Peak	225.00	150	Horizontal	Pass
6**	17414.625	42.91	4.72	54.0	-11.09	AV	225.00	150	Horizontal	Pass



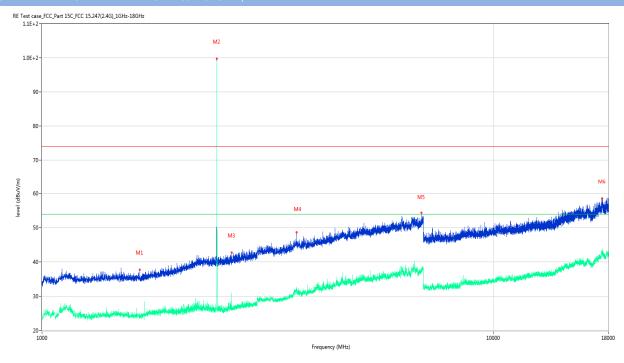
GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1924.500	39.42	-15.80	74.0	-34.58	Peak	1.00	100	Vertical	Pass
1**	1924.500	24.94	-15.80	54.0	-29.06	AV	1.00	100	Vertical	Pass
2	2402.000	95.41	-12.11	74.0	21.41	Peak	6.00	100	Vertical	N/A
2**	2402.000	90.61	-12.11	54.0	36.61	AV	6.00	100	Vertical	N/A
3	3658.000	47.09	-6.50	74.0	-26.91	Peak	7.00	100	Vertical	Pass
3**	3658.000	30.59	-6.50	54.0	-23.41	AV	7.00	100	Vertical	Pass
4	6675.000	52.97	-0.02	74.0	-21.03	Peak	4.00	100	Vertical	Pass
4**	6675.000	37.93	-0.02	54.0	-16.07	AV	4.00	100	Vertical	Pass
5	12003.937	52.58	1.49	74.0	-21.42	Peak	12.00	100	Vertical	Pass
5**	12003.937	35.30	1.49	54.0	-18.70	AV	12.00	100	Vertical	Pass
6	17429.062	59.12	4.58	74.0	-14.88	Peak	15.00	100	Vertical	Pass
6**	17429.062	43.19	4.58	54.0	-10.81	AV	15.00	100	Vertical	Pass



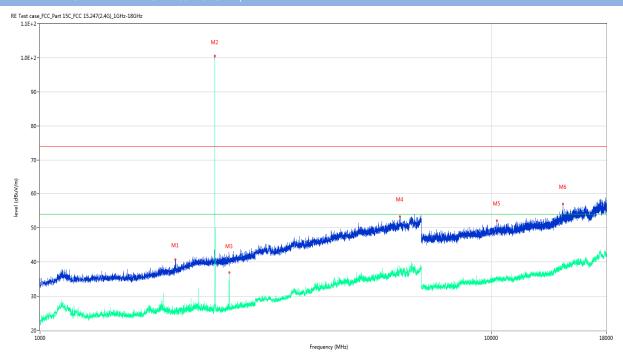
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	20,000.	(Degree)	(cm)	7 4 110 1 11 12	7 01 0101
1	1647.500	37.79	-17.55	74.0	-36.21	Peak	87.00	150	Horizontal	Pass
1**	1647.500	24.35	-17.55	54.0	-29.65	AV	87.00	150	Horizontal	Pass
2	2441.000	99.77	-12.72	74.0	25.77	Peak	222.00	150	Horizontal	N/A
2**	2441.000	94.79	-12.72	54.0	40.79	AV	222.00	150	Horizontal	N/A
3	2634.000	42.69	-11.56	74.0	-31.31	Peak	155.00	150	Horizontal	Pass
3**	2634.000	27.30	-11.56	54.0	-26.70	AV	155.00	150	Horizontal	Pass
4	3665.000	48.69	-6.64	74.0	-25.31	Peak	352.00	150	Horizontal	Pass
4**	3665.000	31.35	-6.64	54.0	-22.65	AV	352.00	150	Horizontal	Pass
5	6933.000	54.43	0.31	74.0	-19.57	Peak	339.00	150	Horizontal	Pass
5**	6933.000	37.98	0.31	54.0	-16.02	AV	339.00	150	Horizontal	Pass
6	17423.813	58.54	4.74	74.0	-15.46	Peak	351.00	150	Horizontal	Pass
6**	17423.813	43.15	4.74	54.0	-10.85	AV	351.00	150	Horizontal	Pass



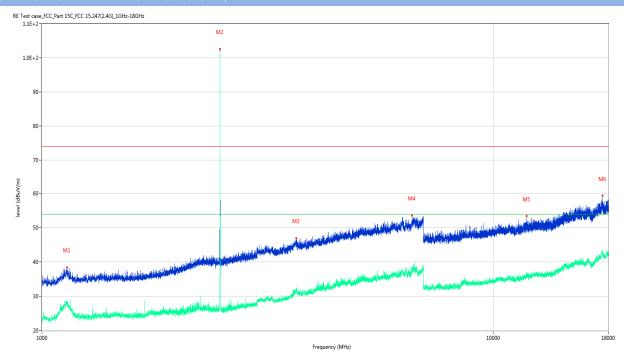
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	20,000.	(Degree)	(cm)	7 4 110 1 11 12	7 0, 0,0
1	1995.500	40.64	-15.54	74.0	-33.36	Peak	47.00	150	Vertical	Pass
1**	1995.500	25.87	-15.54	54.0	-28.13	AV	47.00	150	Vertical	Pass
2	2441.000	100.51	-12.72	74.0	26.51	Peak	356.00	150	Vertical	N/A
2**	2441.000	95.73	-12.72	54.0	41.73	AV	356.00	150	Vertical	N/A
3	2625.500	41.07	-11.95	74.0	-32.93	Peak	0.00	150	Vertical	Pass
3**	2625.500	36.96	-11.95	54.0	-17.04	AV	0.00	150	Vertical	Pass
4	6273.000	53.32	-0.01	74.0	-20.68	Peak	63.00	150	Vertical	Pass
4**	6273.000	37.88	-0.01	54.0	-16.12	AV	63.00	150	Vertical	Pass
5	10284.687	52.07	0.67	74.0	-21.93	Peak	301.00	150	Vertical	Pass
5**	10284.687	35.68	0.67	54.0	-18.32	AV	301.00	150	Vertical	Pass
6	14422.125	56.94	2.51	74.0	-17.06	Peak	60.00	150	Vertical	Pass
6**	14422.125	39.18	2.51	54.0	-14.82	AV	60.00	150	Vertical	Pass



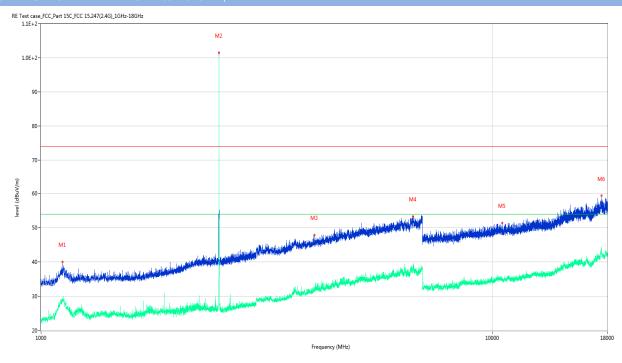
GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1135.500	38.43	-18.37	74.0	-35.57	Peak	323.00	150	Horizontal	Pass
1**	1135.500	27.60	-18.37	54.0	-26.40	AV	323.00	150	Horizontal	Pass
2	2480.000	102.51	-12.30	74.0	28.51	Peak	235.00	150	Horizontal	N/A
2**	2480.000	97.85	-12.30	54.0	43.85	AV	235.00	150	Horizontal	N/A
3	3663.000	46.96	-6.65	74.0	-27.04	Peak	294.00	150	Horizontal	Pass
3**	3663.000	31.19	-6.65	54.0	-22.81	AV	294.00	150	Horizontal	Pass
4	6605.000	53.51	0.50	74.0	-20.49	Peak	11.00	150	Horizontal	Pass
4**	6605.000	38.15	0.50	54.0	-15.85	AV	11.00	150	Horizontal	Pass
5	11853.000	53.36	1.50	74.0	-20.64	Peak	83.00	150	Horizontal	Pass
5**	11853.000	35.75	1.50	54.0	-18.25	AV	83.00	150	Horizontal	Pass
6	17469.749	59.42	3.78	74.0	-14.58	Peak	315.00	150	Horizontal	Pass
6**	17469.749	42.83	3.78	54.0	-11.17	AV	315.00	150	Horizontal	Pass



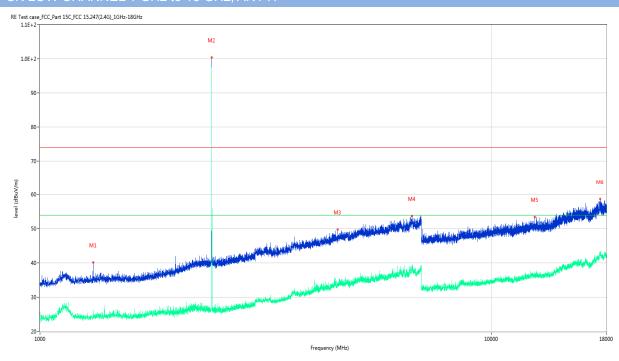
GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
110.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	Bottottoi	(Degree)	(cm)	, unorma	Vordiot
1	1115.500	40.00	-18.57	74.0	-34.00	Peak	245.00	150	Vertical	Pass
1**	1115.500	28.46	-18.57	54.0	-25.54	AV	245.00	150	Vertical	Pass
2	2480.000	101.48	-12.30	74.0	27.48	Peak	348.00	150	Vertical	N/A
2**	2480.000	96.49	-12.30	54.0	42.49	AV	348.00	150	Vertical	N/A
3	4039.000	47.91	-4.73	74.0	-26.09	Peak	214.00	150	Vertical	Pass
3**	4039.000	31.40	-4.73	54.0	-22.60	AV	214.00	150	Vertical	Pass
4	6674.000	53.25	-0.08	74.0	-20.75	Peak	21.00	150	Vertical	Pass
4**	6674.000	38.01	-0.08	54.0	-15.99	AV	21.00	150	Vertical	Pass
5	10526.188	51.39	-0.20	74.0	-22.61	Peak	0.00	150	Vertical	Pass
5**	10526.188	34.87	-0.20	54.0	-19.13	AV	0.00	150	Vertical	Pass
6	17463.187	59.34	3.85	74.0	-14.66	Peak	52.00	150	Vertical	Pass
6**	17463.187	42.51	3.85	54.0	-11.49	AV	52.00	150	Vertical	Pass



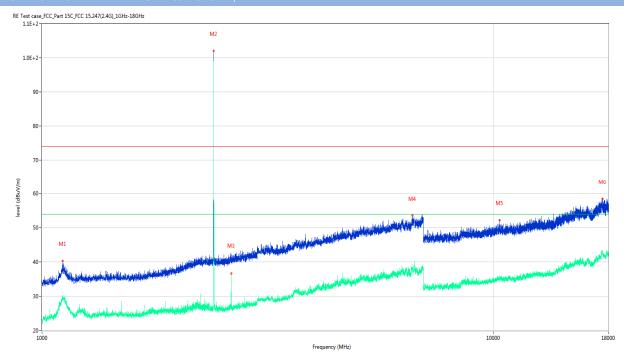
8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
140.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	Detector	(Degree)	(cm)	Antenna	Verdict
	(1011 12)	(ubuv/iii)	(ub)	(ubuv/III)	(ub)		(Degree)	(CIII)		
1	1311.000	40.13	-17.25	74.0	-33.87	Peak	360.00	150	Horizontal	Pass
1**	1311.000	24.17	-17.25	54.0	-29.83	AV	360.00	150	Horizontal	Pass
2	2402.000	100.36	-12.11	74.0	26.36	Peak	245.00	150	Horizontal	N/A
2**	2402.000	95.40	-12.11	54.0	41.40	AV	245.00	150	Horizontal	N/A
3	4570.000	49.76	-3.87	74.0	-24.24	Peak	112.00	150	Horizontal	Pass
3**	4570.000	33.69	-3.87	54.0	-20.31	AV	112.00	150	Horizontal	Pass
4	6680.000	53.70	0.06	74.0	-20.30	Peak	331.00	150	Horizontal	Pass
4**	6680.000	39.29	0.06	54.0	-14.71	AV	331.00	150	Horizontal	Pass
5	12484.062	53.47	1.83	74.0	-20.53	Peak	280.00	150	Horizontal	Pass
5**	12484.062	36.34	1.83	54.0	-17.66	AV	280.00	150	Horizontal	Pass
6	17444.813	58.77	3.96	74.0	-15.23	Peak	120.00	150	Horizontal	Pass
6**	17444.813	43.03	3.96	54.0	-10.97	AV	120.00	150	Horizontal	Pass



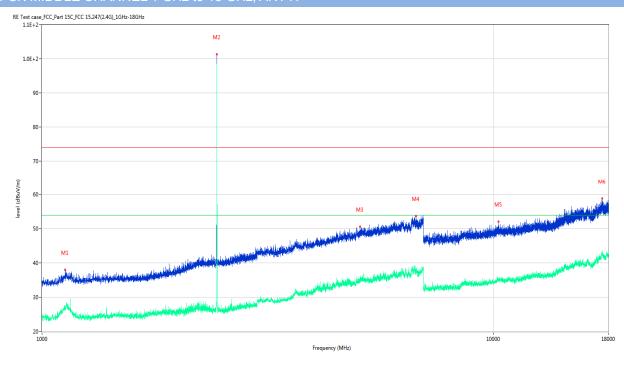
8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
110.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	Botooto	(Degree)	(cm)	, and and	Volume
1	1112.000	40.32	-18.50	74.0	-33.68	Peak	255.00	150	Vertical	Pass
1**	1112.000	30.15	-18.50	54.0	-23.85	AV	255.00	150	Vertical	Pass
2	2402.000	102.02	-12.11	74.0	28.02	Peak	341.00	150	Vertical	N/A
2**	2402.000	96.76	-12.11	54.0	42.76	AV	341.00	150	Vertical	N/A
3	2625.500	41.59	-11.95	74.0	-32.41	Peak	142.00	150	Vertical	Pass
3**	2625.500	36.71	-11.95	54.0	-17.29	AV	142.00	150	Vertical	Pass
4	6624.000	53.50	0.25	74.0	-20.50	Peak	164.00	150	Vertical	Pass
4**	6624.000	37.36	0.25	54.0	-16.64	AV	164.00	150	Vertical	Pass
5	10330.687	52.22	0.51	74.0	-21.78	Peak	0.00	150	Vertical	Pass
5**	10330.687	35.50	0.51	54.0	-18.50	AV	0.00	150	Vertical	Pass
6	17469.749	58.47	3.78	74.0	-15.53	Peak	346.00	150	Vertical	Pass
6**	17469.749	42.47	3.78	54.0	-11.53	AV	346.00	150	Vertical	Pass



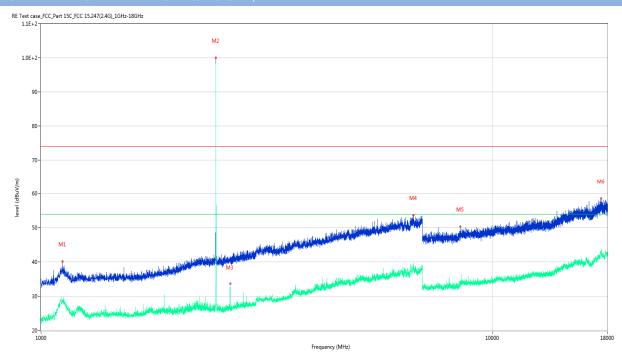
8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
110.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	Bottottoi	(Degree)	(cm)	, unorma	Vordiot
1	1125.000	38.00	-18.51	74.0	-36.00	Peak	243.00	150	Horizontal	Pass
1**	1125.000	27.09	-18.51	54.0	-26.91	AV	243.00	150	Horizontal	Pass
2	2441.000	101.40	-12.72	74.0	27.40	Peak	243.00	150	Horizontal	N/A
2**	2441.000	95.89	-12.72	54.0	41.89	AV	243.00	150	Horizontal	N/A
3	5069.000	50.59	-2.55	74.0	-23.41	Peak	331.00	150	Horizontal	Pass
3**	5069.000	34.73	-2.55	54.0	-19.27	AV	331.00	150	Horizontal	Pass
4	6746.000	53.73	0.10	74.0	-20.27	Peak	62.00	150	Horizontal	Pass
4**	6746.000	38.44	0.10	54.0	-15.56	AV	62.00	150	Horizontal	Pass
5	10273.188	52.04	0.93	74.0	-21.96	Peak	199.00	150	Horizontal	Pass
5**	10273.188	34.90	0.93	54.0	-19.10	AV	199.00	150	Horizontal	Pass
6	17419.874	58.89	4.83	74.0	-15.11	Peak	241.00	150	Horizontal	Pass
6**	17419.874	42.74	4.83	54.0	-11.26	AV	241.00	150	Horizontal	Pass



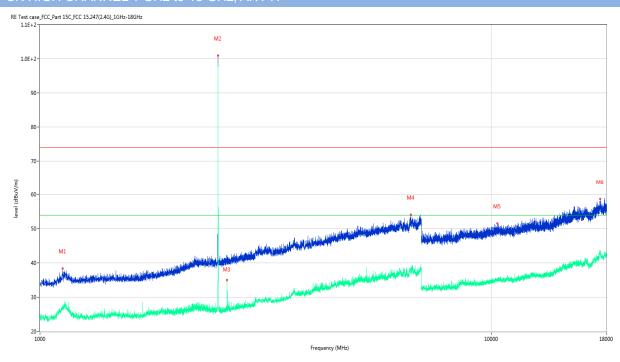
8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
110.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	Bottottoi	(Degree)	(cm)	, unorma	Vordiot
1	1115.500	40.16	-18.57	74.0	-33.84	Peak	260.00	150	Vertical	Pass
1**	1115.500	28.55	-18.57	54.0	-25.45	AV	260.00	150	Vertical	Pass
2	2441.000	99.96	-12.72	74.0	25.96	Peak	0.00	150	Vertical	N/A
2**	2441.000	94.92	-12.72	54.0	40.92	AV	0.00	150	Vertical	N/A
3	2625.500	40.14	-11.95	74.0	-33.86	Peak	14.00	150	Vertical	Pass
3**	2625.500	33.69	-11.95	54.0	-20.31	AV	14.00	150	Vertical	Pass
4	6687.000	53.67	-0.06	74.0	-20.33	Peak	347.00	150	Vertical	Pass
4**	6687.000	39.71	-0.06	54.0	-14.29	AV	347.00	150	Vertical	Pass
5	8503.625	50.38	-1.00	74.0	-23.62	Peak	176.00	150	Vertical	Pass
5**	8503.625	33.72	-1.00	54.0	-20.28	AV	176.00	150	Vertical	Pass
6	17425.125	58.58	4.70	74.0	-15.42	Peak	296.00	150	Vertical	Pass
6**	17425.125	43.64	4.70	54.0	-10.36	AV	296.00	150	Vertical	Pass



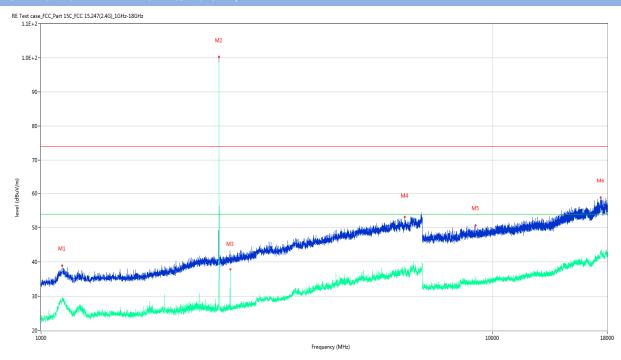
8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H



No.	Eroguoney	Results	Factor	Limit	Over Limit	Detector	Table	Hoight	Antenna	Verdict
INO.	Frequency	Results	Factor	LIIIII	Over Limit	Detector	iable	Height	Antenna	verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1123.500	38.40	-18.50	74.0	-35.60	Peak	235.00	150	Horizontal	Pass
1**	1123.500	27.20	-18.50	54.0	-26.80	AV	235.00	150	Horizontal	Pass
2	2480.000	100.94	-12.30	74.0	26.94	Peak	235.00	150	Horizontal	N/A
2**	2480.000	95.23	-12.30	54.0	41.23	AV	235.00	150	Horizontal	N/A
3	2598.000	40.84	-12.31	74.0	-33.16	Peak	174.00	150	Horizontal	Pass
3**	2598.000	34.98	-12.31	54.0	-19.02	AV	174.00	150	Horizontal	Pass
4	6630.000	54.06	0.04	74.0	-19.94	Peak	139.00	150	Horizontal	Pass
4**	6630.000	38.29	0.04	54.0	-15.71	AV	139.00	150	Horizontal	Pass
5	10323.500	51.47	0.39	74.0	-22.53	Peak	281.00	150	Horizontal	Pass
5**	10323.500	35.54	0.39	54.0	-18.46	AV	281.00	150	Horizontal	Pass
6	17442.187	58.67	4.05	74.0	-15.33	Peak	98.00	150	Horizontal	Pass
6**	17442.187	42.51	4.05	54.0	-11.49	AV	98.00	150	Horizontal	Pass



8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

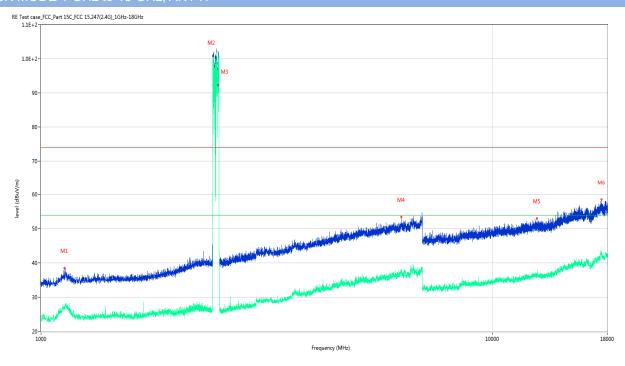


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1113.500	39.01	-18.50	74.0	-34.99	Peak	249.00	150	Vertical	Pass
1**	1113.500	28.99	-18.50	54.0	-25.01	AV	249.00	150	Vertical	Pass
2	2479.500	100.19	-12.27	74.0	26.19	Peak	360.00	150	Vertical	N/A
2**	2479.500	86.40	-12.27	54.0	32.40	AV	360.00	150	Vertical	N/A
3	2625.500	41.61	-11.95	74.0	-32.39	Peak	139.00	150	Vertical	Pass
3**	2625.500	37.85	-11.95	54.0	-16.15	AV	139.00	150	Vertical	Pass
4	6405.000	53.09	-0.54	74.0	-20.91	Peak	241.00	150	Vertical	Pass
4**	6405.000	38.25	-0.54	54.0	-15.75	AV	241.00	150	Vertical	Pass
5	9189.313	50.67	-0.79	74.0	-23.33	Peak	223.00	150	Vertical	Pass
5**	9189.313	34.10	-0.79	54.0	-19.90	AV	223.00	150	Vertical	Pass
6	17392.312	58.84	4.11	74.0	-15.16	Peak	100.00	150	Vertical	Pass
6**	17392.312	42.47	4.11	54.0	-11.53	AV	100.00	150	Vertical	Pass



Hopping Mode:

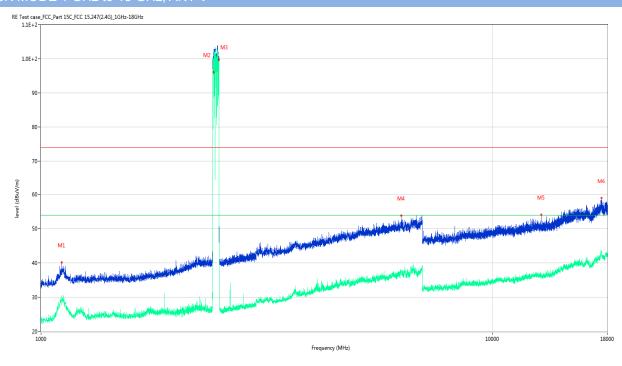
GFSK MODE 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
INU.					Over Limit	Perecioi	ianic	rieigni	Ailleilla	veruict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1127.000	38.55	-18.58	74.0	-35.45	Peak	333.00	150	Horizontal	Pass
1**	1127.000	27.13	-18.58	54.0	-26.87	AV	333.00	150	Horizontal	Pass
2	2402.500	100.90	-12.15	74.0	26.90	Peak	253.00	150	Horizontal	N/A
2**	2402.500	95.00	-12.15	54.0	41.00	AV	253.00	150	Horizontal	N/A
3	2480.000	92.57	-12.30	74.0	18.57	Peak	173.00	150	Horizontal	N/A
3**	2480.000	95.84	-12.30	54.0	41.84	AV	173.00	150	Horizontal	N/A
4	6283.000	53.43	0.25	74.0	-20.57	Peak	1.00	150	Horizontal	Pass
4**	6283.000	38.10	0.25	54.0	-15.90	AV	1.00	150	Horizontal	Pass
5	12567.437	52.98	1.83	74.0	-21.02	Peak	280.00	150	Horizontal	Pass
5**	12567.437	36.27	1.83	54.0	-17.73	AV	280.00	150	Horizontal	Pass
6	17456.626	58.52	3.89	74.0	-15.48	Peak	58.00	150	Horizontal	Pass
6**	17456.626	42.41	3.89	54.0	-11.59	AV	58.00	150	Horizontal	Pass



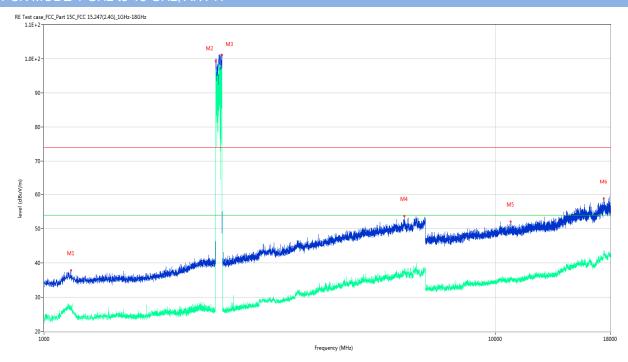
GFSK MODE 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	2010010	(Degree)	(cm)	7	7 0, 0,0
1	1112.000	40.18	-18.50	74.0	-33.82	Peak	260.00	150	Vertical	Pass
1**	1112.000	29.24	-18.50	54.0	-24.76	AV	260.00	150	Vertical	Pass
2	2402.000	96.38	-12.11	74.0	22.38	Peak	66.00	150	Vertical	N/A
2**	2402.000	91.38	-12.11	54.0	37.38	AV	66.00	150	Vertical	N/A
3	2480.500	99.54	-12.33	74.0	25.54	Peak	287.00	150	Vertical	N/A
3**	2480.500	99.65	-12.33	54.0	45.65	AV	287.00	150	Vertical	N/A
4	6289.000	53.85	0.23	74.0	-20.15	Peak	333.00	150	Vertical	Pass
4**	6289.000	37.60	0.23	54.0	-16.40	AV	333.00	150	Vertical	Pass
5	12840.563	54.14	1.84	74.0	-19.86	Peak	241.00	150	Vertical	Pass
5**	12840.563	36.65	1.84	54.0	-17.35	AV	241.00	150	Vertical	Pass
6	17455.313	59.04	3.90	74.0	-14.96	Peak	360.00	150	Vertical	Pass
6**	17455.313	42.88	3.90	54.0	-11.12	AV	360.00	150	Vertical	Pass



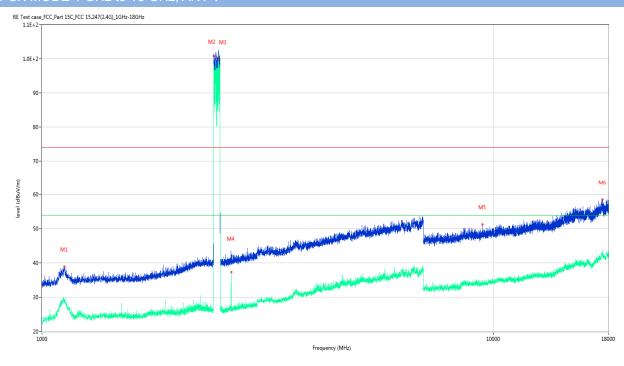
8-DPSK MODE 1 GHz to 18 GHz ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
NO.						Detector		· ·	Antenna	verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1147.500	37.83	-18.21	74.0	-36.17	Peak	332.00	150	Horizontal	Pass
1**	1147.500	26.19	-18.21	54.0	-27.81	AV	332.00	150	Horizontal	Pass
2	2403.500	99.32	-12.21	74.0	25.32	Peak	252.00	150	Horizontal	N/A
2**	2403.500	96.70	-12.21	54.0	42.70	AV	252.00	150	Horizontal	N/A
3	2480.000	101.05	-12.30	74.0	27.05	Peak	239.00	150	Horizontal	N/A
3**	2480.000	95.90	-12.30	54.0	41.90	AV	239.00	150	Horizontal	N/A
4	6286.000	53.70	0.19	74.0	-20.30	Peak	117.00	150	Horizontal	Pass
4**	6286.000	38.06	0.19	54.0	-15.94	AV	117.00	150	Horizontal	Pass
5	10822.313	52.06	0.94	74.0	-21.94	Peak	54.00	150	Horizontal	Pass
5**	10822.313	35.12	0.94	54.0	-18.88	AV	54.00	150	Horizontal	Pass
6	17394.938	58.83	4.16	74.0	-15.17	Peak	0.00	150	Horizontal	Pass
6**	17394.938	42.46	4.16	54.0	-11.54	AV	0.00	150	Horizontal	Pass



8-DPSK MODE 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	20,000.	(Degree)	(cm)	7 4 110 1 11 12	7 01 0101
1	1121.500	38.92	-18.49	74.0	-35.08	Peak	253.00	150	Vertical	Pass
1**	1121.500	29.45	-18.49	54.0	-24.55	AV	253.00	150	Vertical	Pass
2	2402.500	100.76	-12.15	74.0	26.76	Peak	348.00	150	Vertical	N/A
2**	2402.500	97.87	-12.15	54.0	43.87	AV	348.00	150	Vertical	N/A
3	2479.000	100.32	-12.25	74.0	26.32	Peak	1.00	150	Vertical	N/A
3**	2479.000	95.22	-12.25	54.0	41.22	AV	1.00	150	Vertical	N/A
4	2625.500	41.05	-11.95	74.0	-32.95	Peak	131.00	150	Vertical	Pass
4**	2625.500	37.34	-11.95	54.0	-16.66	AV	131.00	150	Vertical	Pass
5	9461.000	51.22	-0.17	74.0	-22.78	Peak	163.00	150	Vertical	Pass
5**	9461.000	34.05	-0.17	54.0	-19.95	AV	163.00	150	Vertical	Pass
6	17461.875	58.57	3.86	74.0	-15.43	Peak	201.00	150	Vertical	Pass
6**	17461.875	42.79	3.86	54.0	-11.21	AV	201.00	150	Vertical	Pass



A.9 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

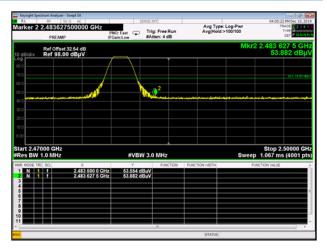
Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: The Level (dBuV/m) has been corrected by factor.

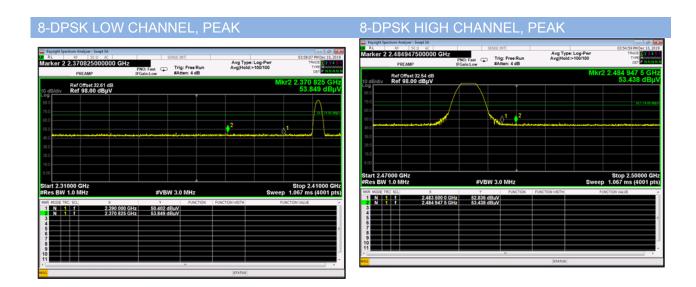
Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
		2390.00	53.479	32.61	74	20.521	PEAK	Pass
GFSK	Low	2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
CECK	ШСП	2483.50	53.882	32.54	74	20.118	PEAK	Pass
GFSK	HIGH	2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	Low	2390.00	53.849	32.61	74	20.151	PEAK	Pass
0-DP3K		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	HIGH	2483.50	53.438	32.54	74	20.562	PEAK	Pass
0-DP3K		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
CECK/Hopping)	Low	2390.00	52.892	32.61	74	21.108	PEAK	Pass
GFSK(Hopping)		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
CECK/Hopping)	ШСП	2483.50	53.542	32.54	74	20.458	PEAK	Pass
GFSK(Hopping)	HIGH	2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	Low	2390.00	53.539	32.61	74	20.461	PEAK	Pass
(Hopping)	Low	2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	HIGH	2483.50	53.202	32.54	74	20.798	PEAK	Pass
(Hopping)		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass

Test Plots

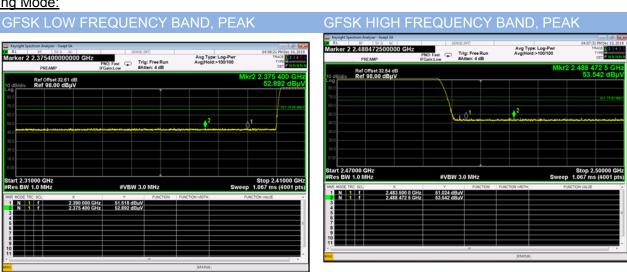
GFSK HIGH CHANNEL, PEAK







Hopping Mode:







ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ19B0502-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ19B0502-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ19B0502-AI.PDF".

--END OF REPORT--