



CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2

TEST REPORT

For

T1 Wireless

MODEL NUMBER: T1000

REPORT NUMBER: 4790790773-2-RF-2

ISSUE DATE: April 27, 2023

FCC ID: 2A6RN-T1000

IC: 28517-T1000

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 27, 2023	Initial Issue	



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Summary of Test Results

Test Item	Clause Limit/Requirement		Result
Radiated Band edge and Spurious Emission	ANSI C63.10-2013 Clause 6.3 & 6.5 & 6.6	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass

^{*}This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

Note: This is a C2PC test report. The applicant wants to add one more antenna and the antenna information showed at page 9 clause 5.6, but the power of module remained unchanged. We retest radiated band edge and spurious emission, for more data and information, please refer to the original test report EED32O80604202 which is issued by Centre Testing International Group Co., Ltd on Jun.16, 2022.

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C and ISED RSS-247 ISSUE 2> when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen Typhur Technology Co., Ltd

Address: 22 Floor, Prince Plaza, 51 Taizi Road Shuiwan Community,

Zhaoshang Shenzhen China

Manufacturer Information

Company Name: Shenzhen Typhur Technology Co., Ltd

Address: 22 Floor, Prince Plaza, 51 Taizi Road Shuiwan Community,

Zhaoshang Shenzhen China

EUT Information

Operations Manager

EUT Name: T1 Wireless Model: T1000 Brand: Typhur

Sample Received Date: March 31, 2023

Sample Status: Normal Sample ID: 5940396

Date of Tested: April 16, 2023 to April 25, 2023

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
CFR 47 FCC PART 15 SUBPART C	PASS	
ISED RSS-247 ISSUE 2	PASS	

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification
	rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	T1 Wireless		
Model	T1000		
Technology	Bluetooth – BR & EDR		
Transmit Frequency Range	2402 MHz ~ 2480 MHz		
Mode	Basic Rate Enhanced Data Rate		
Modulation	GFSK ∏/4-DQPSK 8DPSK		
Packet Type (Maximum Payload):	DH5	2DH5	3DH5
Data Rate	1 Mbps	2 Mbps	3 Mbps
Ratings	DC 3.3 V		

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/



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5.3. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK-DH5	CH 00(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz
8DPSK-3DH5	CH 00(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz

5.4. PACKET TYPE CONFIGURATION

Test Mode	Packet Type	Setting (Packet Length)		
	DH1	27		
GFSK	DH3	183		
	DH5	339		
	2-DH1	54		
∏/4-DQPSK	2-DH3	367		
	2-DH5	679		
	3-DH1	83		
8DPSK	3-DH3	552		
	3-DH5	1021		

5.5. WORST-CASE CONFIGURATIONS

Test Mode	Modulation Technology	Modulation Type	Data Rate	Packet Type
BR	FHSS	GFSK	1Mbit/s	DH5
EDR	FHSS	8DPSK	3Mbit/s	3-DH5

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates. Only GFSK and 8DPSK test data were report in this report.

The customer declared that the maximum conducted output power remain unchanged and we also evaluated and confirmed that the maximum conducted output power remain in the turn-up tolerance.

The confirmed maximum conducted output power was used for all the radiated emission tests.

These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.



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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	2402 ~ 2480	PIFA antenna	2.08

Test Mode	Transmit and Receive Mode	Description
GFSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
8DPSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.



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5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
/	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

ACCESSORIES

	Item	Accessory	Brand Name	Model Name	Description
I	1	/	/	/	/

Note: The cable is provided by customer.

TEST SETUP

The EUT can work in engineering mode.

SETUP DIAGRAM FOR TESTS

EUT



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6. MEASURING EQUIPMENT AND SOFTWARE USED

	Radiated Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01202035	Oct.17, 2022	Oct.16, 2023
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	/	/
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	1	/
Software					
[Description		Manufacturer	Name	Version
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1

linear average detector.

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7. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz-1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz				
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m Field Strength Lim (dBuV/m) at 3 m Quasi-Peak) at 3 m	
30 - 88	100	40		
88 - 216	150	43.5		
216 - 960	200 46		6	
Above 960	500	54		
Above 1000	500	Peak	Average	
		74	54	

FCC Emissions radiated outside of the specified frequency bands below 30 MHz				
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		

ISED General field strength limits at frequencies below 30 MHz

	Table 6 – General field strength limits at frequency	uencies below 30 MHz
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	182.0125 - 187.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c

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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. 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 and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. 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.



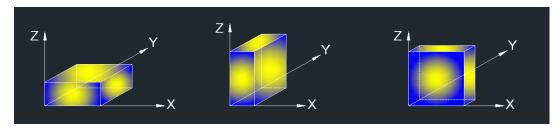
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to the original test report.

X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

For Restricted Bandedge:

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.



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8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note

- 1. Peak Result = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
- 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

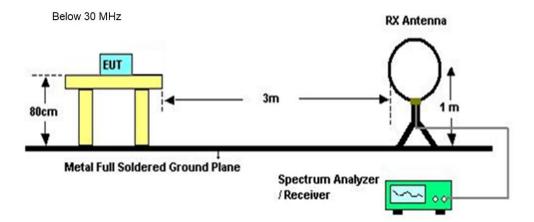
For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

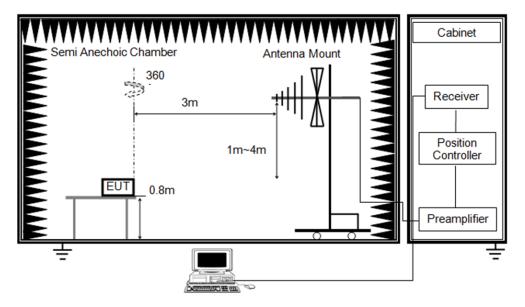
- 1. Measurement = Reading Level + Correct Factor.
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



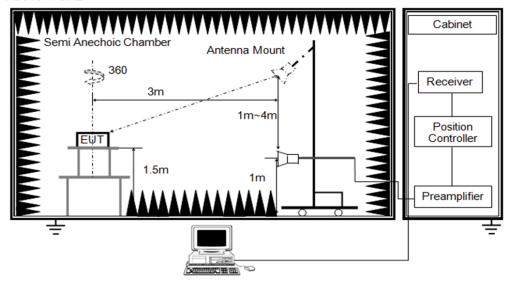
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

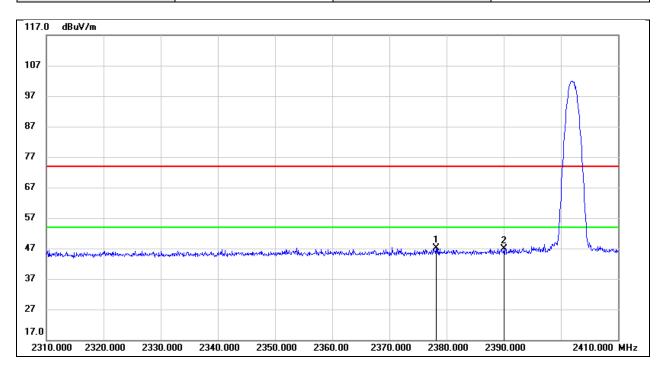
Temperature	25.1 °C	Relative Humidity	63%
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

TEST RESULTS

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7.1. RESTRICTED BANDEDGE

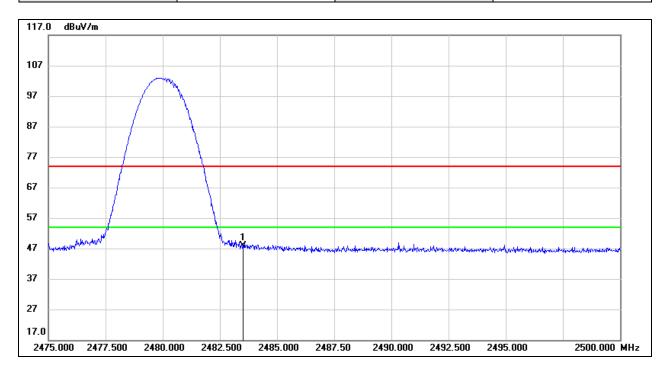
Test Mode:	GFSK Peak	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2378.200	15.06	32.12	47.18	74.00	-26.82	peak
2	2390.000	14.78	32.16	46.94	74.00	-27.06	peak



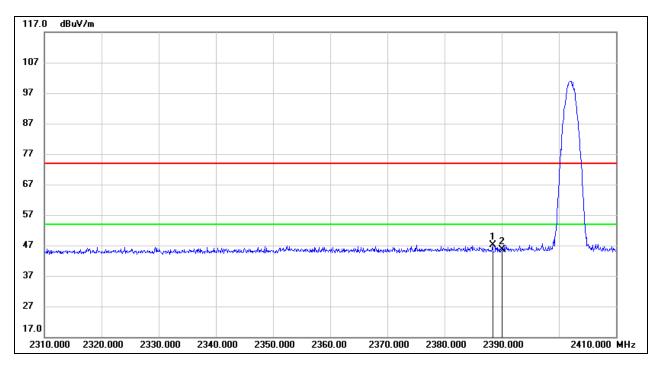
Test Mode:	GFSK Peak	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.43	32.44	47.87	74.00	-26.13	peak



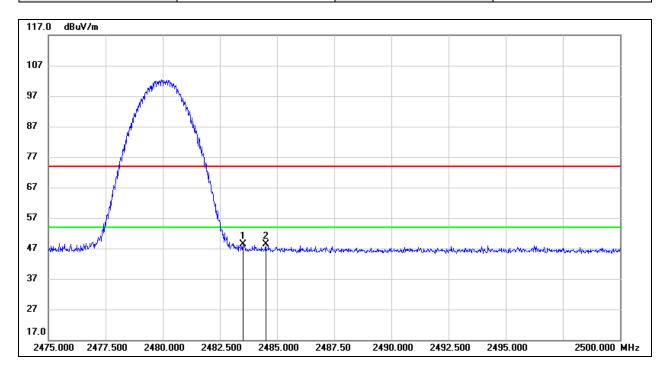
Test Mode:	8DPSK Peak	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.400	14.91	32.16	47.07	74.00	-26.93	peak
2	2390.000	13.45	32.16	45.61	74.00	-28.39	peak



Test Mode:	8DPSK Peak	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V

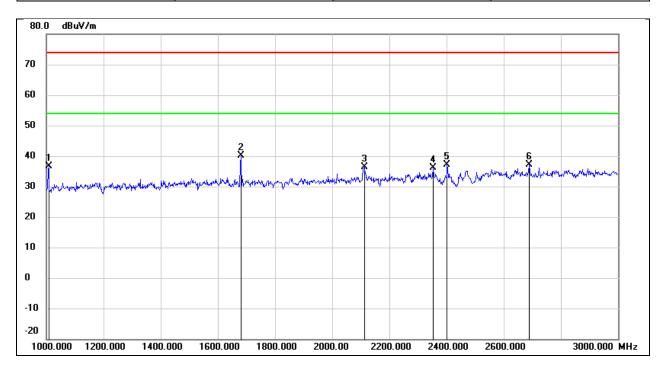


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.89	32.44	48.33	74.00	-25.67	peak
2	2484.500	16.02	32.44	48.46	74.00	-25.54	peak

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7.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

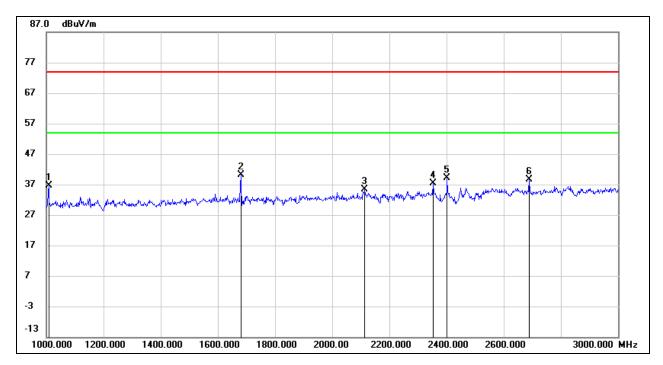
Test Mode:	GFSK	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1008.000	51.59	-14.99	36.60	74.00	-37.40	peak
2	1680.000	52.36	-12.12	40.24	74.00	-33.76	peak
3	2112.000	46.90	-10.48	36.42	74.00	-37.58	peak
4	2352.000	45.39	-9.24	36.15	74.00	-37.85	peak
5	2402.000	46.23	-8.99	37.24	/	/	Fundamental
6	2690.000	45.01	-7.92	37.09	74.00	-36.91	peak



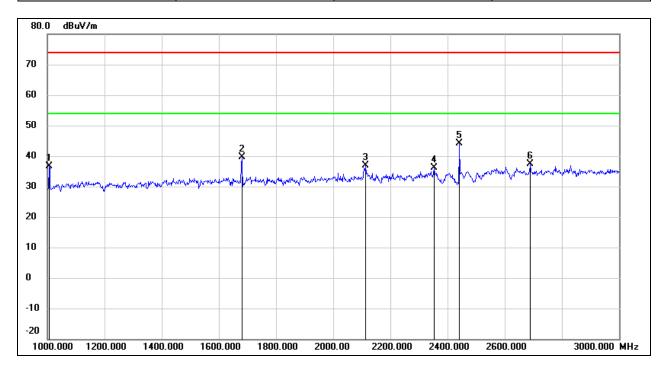
Test Mode:	GFSK	Channel:	2402 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1008.000	51.56	-14.99	36.57	74.00	-37.43	peak
2	1680.000	52.14	-12.12	40.02	74.00	-33.98	peak
3	2114.000	45.95	-10.47	35.48	74.00	-38.52	peak
4	2354.000	46.57	-9.24	37.33	74.00	-36.67	peak
5	2402.000	48.08	-8.99	39.09	/	/	Fundamental
6	2688.000	46.49	-7.92	38.57	74.00	-35.43	peak



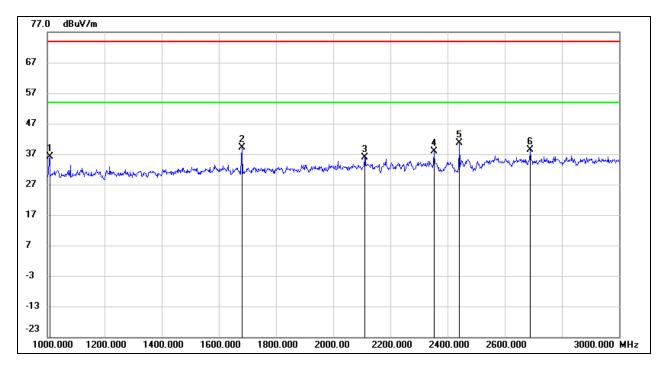
Test Mode:	GFSK	Channel:	2441 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1006.000	51.72	-15.00	36.72	74.00	-37.28	peak
2	1680.000	51.86	-12.12	39.74	74.00	-34.26	peak
3	2114.000	47.37	-10.47	36.90	74.00	-37.10	peak
4	2352.000	45.43	-9.24	36.19	74.00	-37.81	peak
5	2441.000	52.90	-8.79	44.11	/	/	Fundamental
6	2690.000	45.25	-7.92	37.33	74.00	-36.67	peak



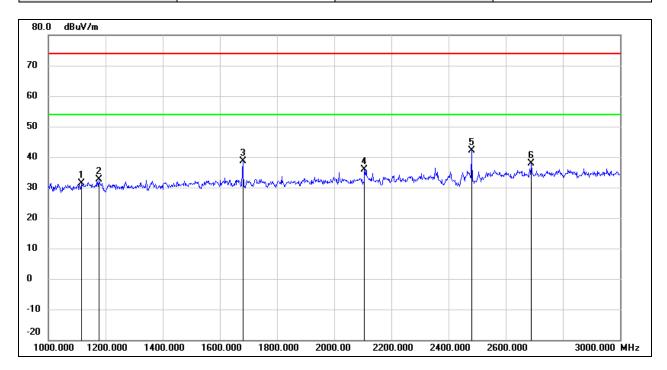
Test Mode:	GFSK	Channel:	2441 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1008.000	51.07	-14.99	36.08	74.00	-37.92	peak
2	1680.000	51.28	-12.12	39.16	74.00	-34.84	peak
3	2110.000	46.40	-10.49	35.91	74.00	-38.09	peak
4	2352.000	47.06	-9.24	37.82	74.00	-36.18	peak
5	2441.000	49.41	-8.79	40.62	/	/	Fundamental
6	2690.000	46.18	-7.92	38.26	74.00	-35.74	peak



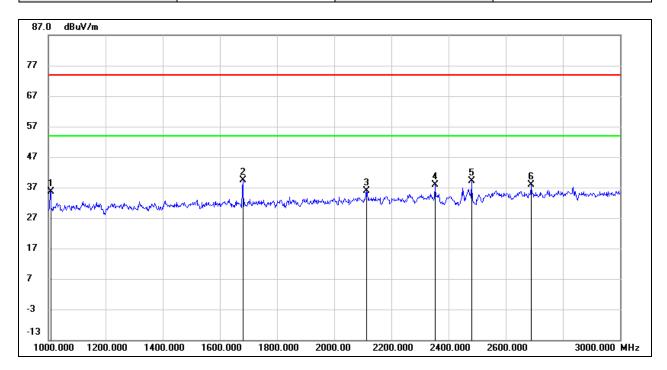
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1116.000	45.83	-14.50	31.33	74.00	-42.67	peak
2	1176.000	46.80	-14.21	32.59	74.00	-41.41	peak
3	1680.000	50.71	-12.12	38.59	74.00	-35.41	peak
4	2106.000	46.28	-10.51	35.77	74.00	-38.23	peak
5	2480.000	50.77	-8.59	42.18	/	/	Fundamental
6	2690.000	45.81	-7.92	37.89	74.00	-36.11	peak



Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V

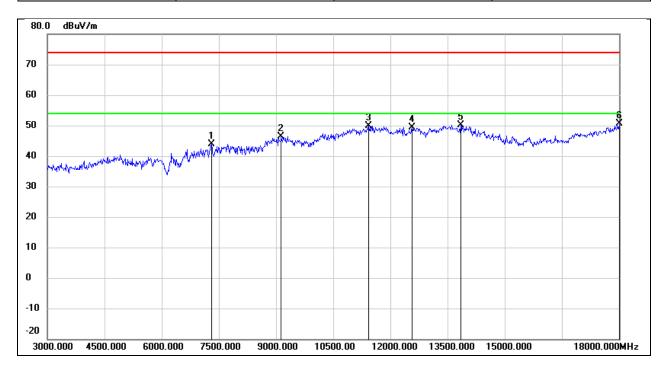


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1008.000	50.74	-14.99	35.75	74.00	-38.25	peak
2	1680.000	51.52	-12.12	39.40	74.00	-34.60	peak
3	2112.000	46.29	-10.48	35.81	74.00	-38.19	peak
4	2352.000	47.11	-9.24	37.87	74.00	-36.13	peak
5	2480.000	47.79	-8.59	39.20	/	/	Fundamental
6	2690.000	45.87	-7.92	37.95	74.00	-36.05	peak

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7.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

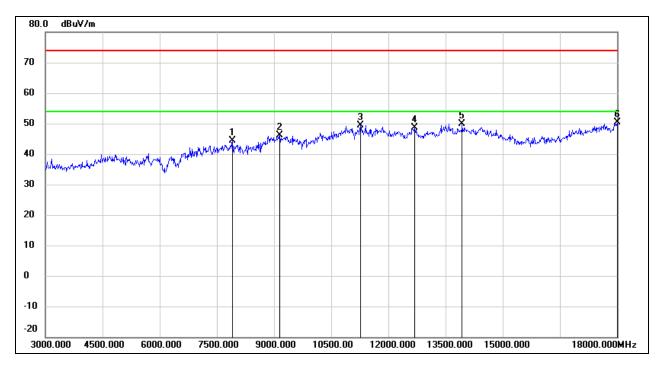
Test Mode:	GFSK	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7305.000	37.53	6.47	44.00	74.00	-30.00	peak
2	9135.000	35.78	10.55	46.33	74.00	-27.67	peak
3	11430.000	33.64	16.34	49.98	74.00	-24.02	peak
4	12570.000	31.68	17.75	49.43	74.00	-24.57	peak
5	13845.000	28.63	21.62	50.25	74.00	-23.75	peak
6	18000.000	24.83	25.69	50.52	74.00	-23.48	peak



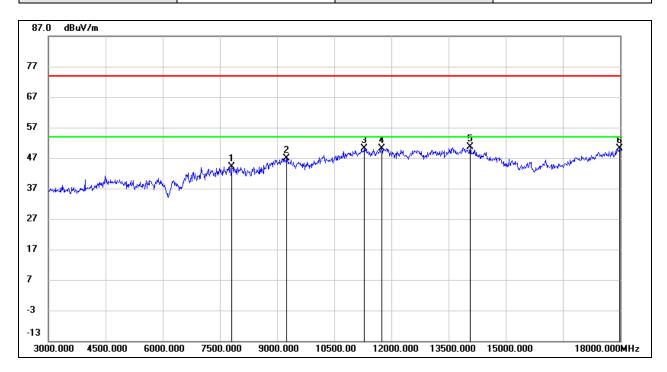
Test Mode:	GFSK	Channel:	2402 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7905.000	38.19	6.31	44.50	74.00	-29.50	peak
2	9150.000	35.62	10.54	46.16	74.00	-27.84	peak
3	11265.000	33.75	15.74	49.49	74.00	-24.51	peak
4	12690.000	30.67	18.02	48.69	74.00	-25.31	peak
5	13935.000	28.16	21.82	49.98	74.00	-24.02	peak
6	18000.000	24.74	25.69	50.43	74.00	-23.57	peak



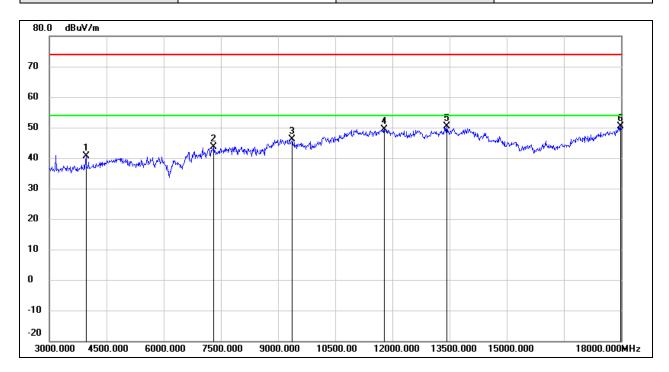
Test Mode:	GFSK	Channel:	2441 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	37.90	6.32	44.22	74.00	-29.78	peak
2	9240.000	36.23	10.58	46.81	74.00	-27.19	peak
3	11295.000	34.30	15.85	50.15	74.00	-23.85	peak
4	11745.000	32.92	17.27	50.19	74.00	-23.81	peak
5	14070.000	29.02	21.67	50.69	74.00	-23.31	peak
6	17985.000	24.42	25.60	50.02	74.00	-23.98	peak



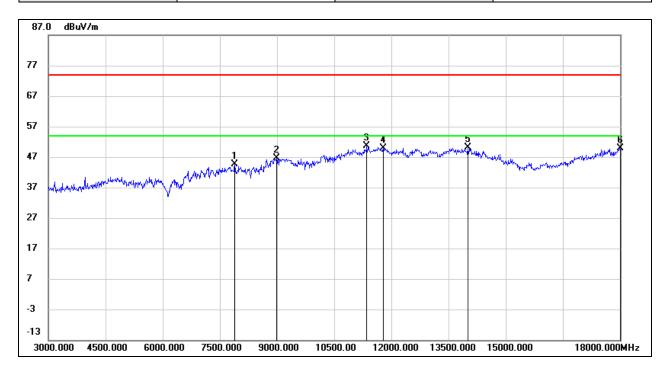
Test Mode:	GFSK	Channel:	2441 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3960.000	44.47	-3.89	40.58	74.00	-33.42	peak
2	7305.000	37.26	6.47	43.73	74.00	-30.27	peak
3	9375.000	35.48	10.64	46.12	74.00	-27.88	peak
4	11790.000	32.02	17.38	49.40	74.00	-24.60	peak
5	13425.000	29.73	20.58	50.31	74.00	-23.69	peak
6	17985.000	24.90	25.60	50.50	74.00	-23.50	peak



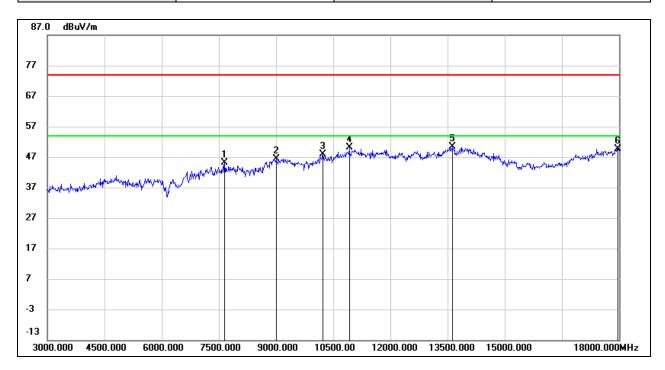
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	38.39	6.31	44.70	74.00	-29.30	peak
2	8985.000	36.24	10.37	46.61	74.00	-27.39	peak
3	11355.000	34.57	16.06	50.63	74.00	-23.37	peak
4	11790.000	32.49	17.38	49.87	74.00	-24.13	peak
5	14010.000	28.19	21.93	50.12	74.00	-23.88	peak
6	18000.000	24.21	25.69	49.90	74.00	-24.10	peak



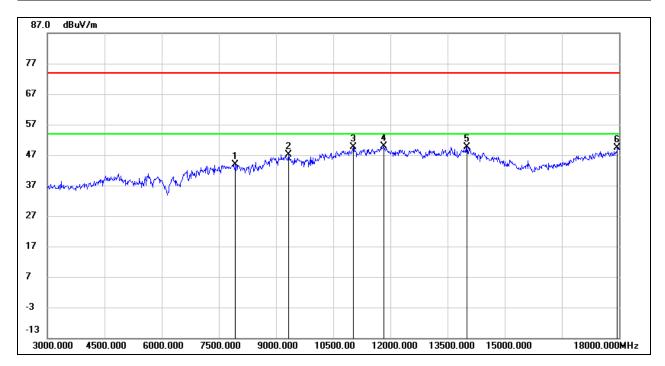
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7650.000	38.91	6.33	45.24	74.00	-28.76	peak
2	9000.000	35.83	10.48	46.31	74.00	-27.69	peak
3	10230.000	35.37	12.46	47.83	74.00	-26.17	peak
4	10920.000	35.53	14.49	50.02	74.00	-23.98	peak
5	13620.000	29.13	21.15	50.28	74.00	-23.72	peak
6	17970.000	24.09	25.51	49.60	74.00	-24.40	peak



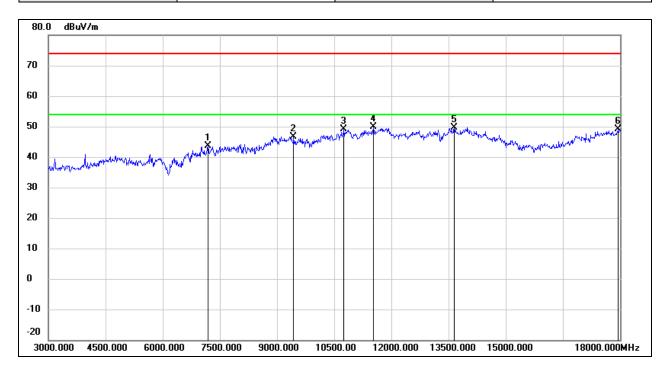
Test Mode:	8DPSK	Channel:	2402 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7935.000	37.46	6.32	43.78	74.00	-30.22	peak
2	9330.000	36.61	10.62	47.23	74.00	-26.77	peak
3	11025.000	34.71	14.85	49.56	74.00	-24.44	peak
4	11820.000	32.49	17.47	49.96	74.00	-24.04	peak
5	14010.000	27.72	21.93	49.65	74.00	-24.35	peak
6	17955.000	23.97	25.42	49.39	74.00	-24.61	peak



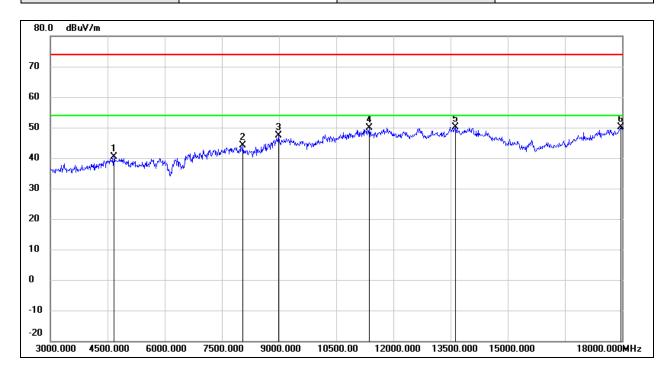
Test Mode:	8DPSK	Channel:	2402 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7185.000	36.99	6.55	43.54	74.00	-30.46	peak
2	9435.000	36.00	10.67	46.67	74.00	-27.33	peak
3	10755.000	35.14	13.90	49.04	74.00	-24.96	peak
4	11535.000	33.16	16.70	49.86	74.00	-24.14	peak
5	13650.000	28.38	21.21	49.59	74.00	-24.41	peak
6	17955.000	23.67	25.42	49.09	74.00	-24.91	peak



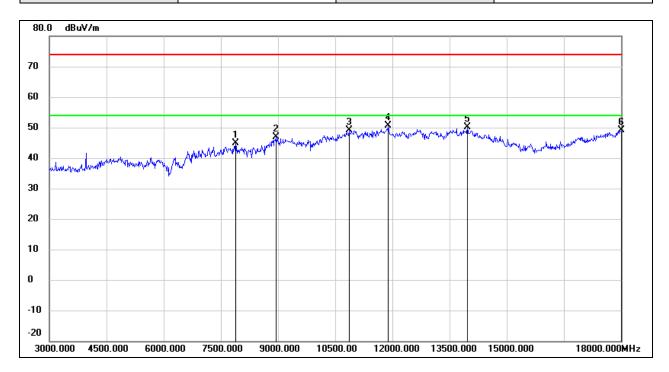
Test Mode:	8DPSK	Channel:	2441 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4665.000	41.32	-0.83	40.49	74.00	-33.51	peak
2	8055.000	37.73	6.37	44.10	74.00	-29.90	peak
3	8985.000	37.01	10.37	47.38	74.00	-26.62	peak
4	11370.000	33.77	16.12	49.89	74.00	-24.11	peak
5	13620.000	28.92	21.15	50.07	74.00	-23.93	peak
6	17970.000	24.51	25.51	50.02	74.00	-23.98	peak



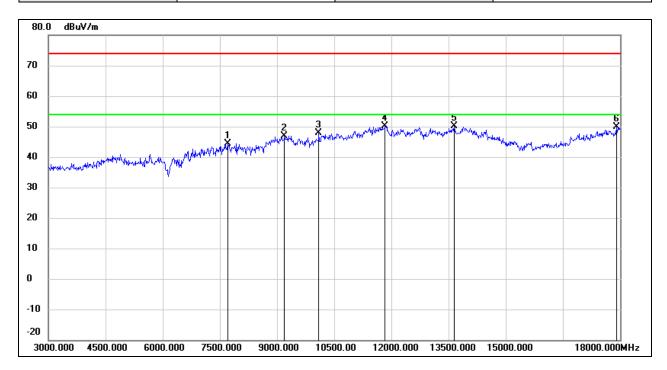
Test Mode:	8DPSK	Channel:	2441 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	38.66	6.31	44.97	74.00	-29.03	peak
2	8940.000	36.81	10.04	46.85	74.00	-27.15	peak
3	10860.000	34.87	14.27	49.14	74.00	-24.86	peak
4	11895.000	32.88	17.68	50.56	74.00	-23.44	peak
5	13965.000	28.12	21.89	50.01	74.00	-23.99	peak
6	18000.000	23.55	25.69	49.24	74.00	-24.76	peak



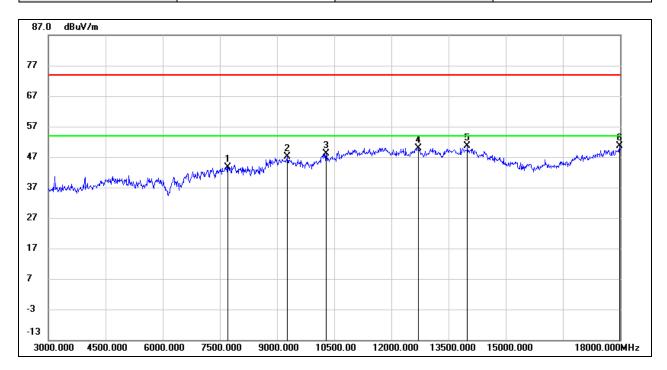
Test Mode:	8DPSK	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7710.000	37.97	6.33	44.30	74.00	-29.70	peak
2	9195.000	36.26	10.56	46.82	74.00	-27.18	peak
3	10095.000	35.63	12.19	47.82	74.00	-26.18	peak
4	11835.000	32.55	17.51	50.06	74.00	-23.94	peak
5	13650.000	28.97	21.21	50.18	74.00	-23.82	peak
6	17910.000	24.66	25.16	49.82	74.00	-24.18	peak



Test Mode:	8DPSK	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	DC 3.3 V

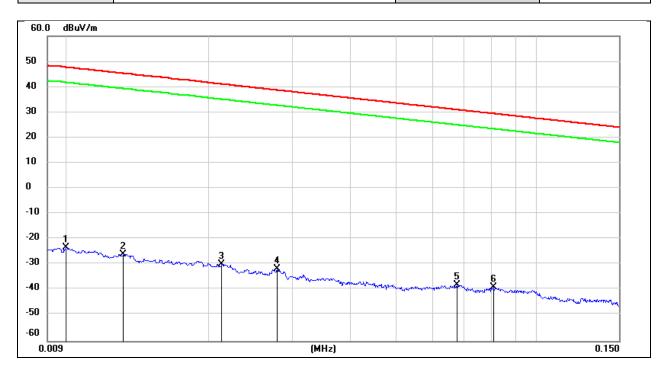


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7710.000	37.19	6.33	43.52	74.00	-30.48	peak
2	9270.000	36.64	10.59	47.23	74.00	-26.77	peak
3	10290.000	35.52	12.59	48.11	74.00	-25.89	peak
4	12705.000	31.93	18.06	49.99	74.00	-24.01	peak
5	13995.000	28.70	21.95	50.65	74.00	-23.35	peak
6	17985.000	25.00	25.60	50.60	74.00	-23.40	peak

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7.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

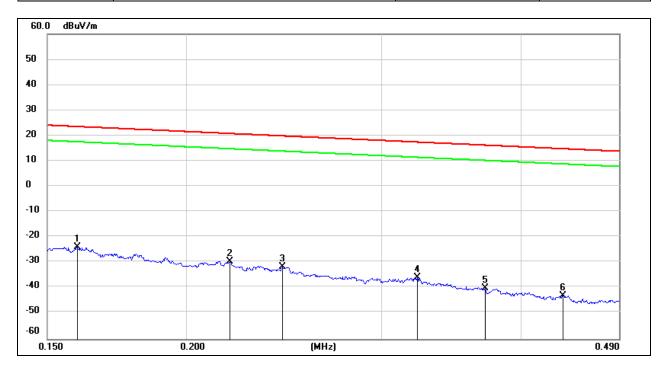
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.01	78.22	-101.4	-23.18	-74.68	47.6	-3.9	-70.78	peak
2	0.0131	75.47	-101.38	-25.91	-77.41	45.25	-6.25	-71.16	peak
3	0.0212	71.54	-101.35	-29.81	-81.31	41.07	-10.43	-70.88	peak
4	0.0279	69.67	-101.38	-31.71	-83.21	38.69	-12.81	-70.40	peak
5	0.0675	63.64	-101.56	-37.92	-89.42	31.02	-20.48	-68.94	peak
6	0.0806	62.68	-101.63	-38.95	-90.45	29.47	-22.03	-68.42	peak



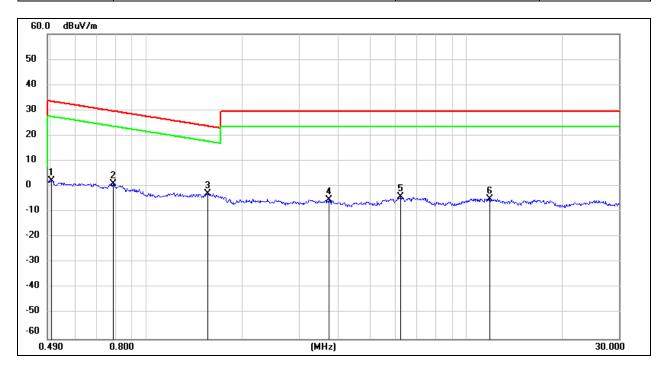
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.3 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.1595	77.86	-101.65	-23.79	-75.29	23.55	-27.95	-47.34	peak
2	0.219	72.27	-101.75	-29.48	-80.98	20.79	-30.71	-50.27	peak
3	0.2442	70.03	-101.79	-31.76	-83.26	19.85	-31.65	-51.61	peak
4	0.3225	65.97	-101.88	-35.91	-87.41	17.43	-34.07	-53.34	peak
5	0.3714	61.78	-101.93	-40.15	-91.65	16.2	-35.3	-56.35	peak
6	0.4364	58.86	-101.99	-43.13	-94.63	14.8	-36.7	-57.93	peak



Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 3.3 V

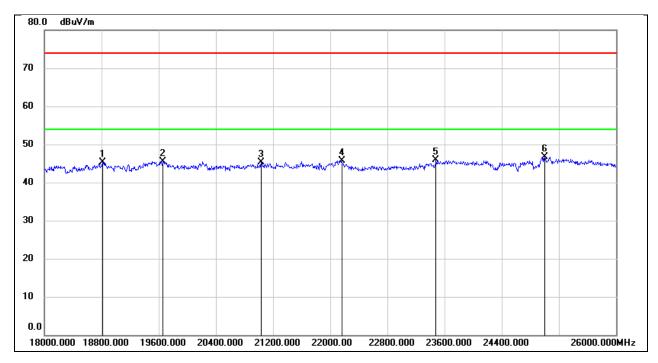


No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.5039	64.43	-62.07	2.36	-49.14	33.56	-17.94	-31.20	peak
2	0.7861	63.33	-62.14	1.19	-50.31	29.69	-21.81	-28.50	peak
3	1.5564	59.18	-62.02	-2.84	-54.34	23.76	-27.74	-26.60	peak
4	3.71	56.2	-61.41	-5.21	-56.71	29.54	-21.96	-34.75	peak
5	6.2445	57.13	-61.32	-4.19	-55.69	29.54	-21.96	-33.73	peak
6	11.8513	56.06	-60.88	-4.82	-56.32	29.54	-21.96	-34.36	peak

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7.5. SPURIOUS EMISSIONSC (18 GHZ ~ 26 GHZ)

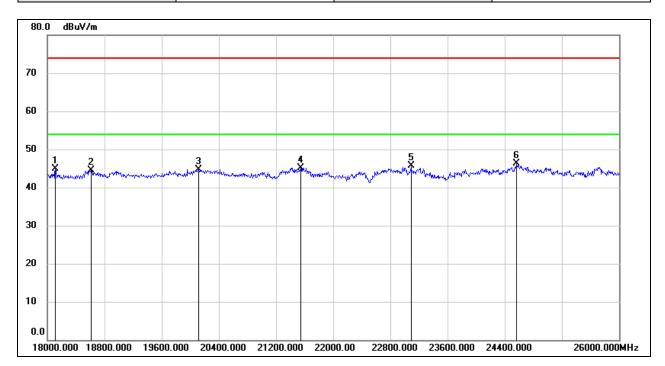
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18816.000	50.71	-5.38	45.33	74.00	-28.67	peak
2	19656.000	50.80	-5.36	45.44	74.00	-28.56	peak
3	21032.000	50.15	-4.87	45.28	74.00	-28.72	peak
4	22160.000	50.08	-4.31	45.77	74.00	-28.23	peak
5	23480.000	49.04	-3.16	45.88	74.00	-28.12	peak
6	25000.000	48.86	-2.10	46.76	74.00	-27.24	peak



Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	DC 5V

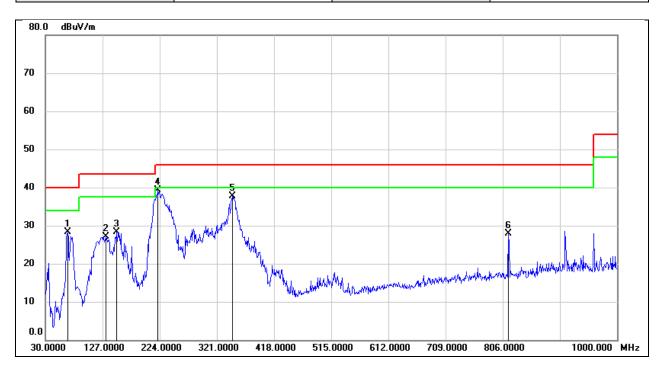


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18112.000	50.46	-5.47	44.99	74.00	-29.01	peak
2	18616.000	49.89	-5.34	44.55	74.00	-29.45	peak
3	20120.000	50.22	-5.53	44.69	74.00	-29.31	peak
4	21544.000	49.76	-4.63	45.13	74.00	-28.87	peak
5	23088.000	49.02	-3.41	45.61	74.00	-28.39	peak
6	24568.000	48.60	-2.33	46.27	74.00	-27.73	peak

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7.6. SPURIOUS EMISSIONSC (30 MHZ ~ 1 GHZ)

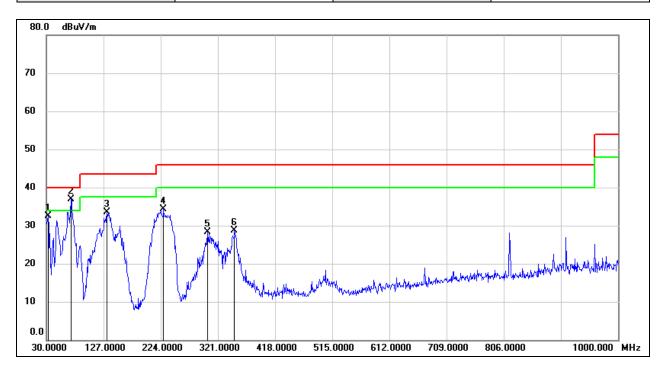
Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Horizontal	Test Voltage:	AC120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	67.8300	48.93	-20.66	28.27	40.00	-11.73	QP
2	132.8200	46.29	-19.17	27.12	43.50	-16.38	QP
3	151.2500	46.60	-18.27	28.33	43.50	-15.17	QP
4	221.0900	56.75	-17.54	39.21	46.00	-6.79	QP
5	347.1900	50.78	-13.08	37.70	46.00	-8.30	QP
6	815.7000	34.46	-6.53	27.93	46.00	-18.07	QP



Test Mode:	GFSK	Channel:	2480 MHz
Polarity:	Vertical	Test Voltage:	AC120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	51.19	-18.69	32.50	40.00	-7.50	QP
2	71.7100	57.82	-20.90	36.92	40.00	-3.08	QP
3	132.8200	52.69	-19.17	33.52	43.50	-9.98	QP
4	228.8500	52.16	-17.90	34.26	46.00	-11.74	QP
5	303.5400	43.42	-15.12	28.30	46.00	-17.70	QP
6	349.1300	41.77	-13.00	28.77	46.00	-17.23	QP

END OF REPORT