

**FCC 15.407 U-NII
(Class II Permissive Change)
5GHz Test Report**

for

LG Electronics USA

111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632

Product Name : Wireless Audio Module
Model Name : WL1BKT22
Brand LG
FCC ID : BEJ-WL1BKT22

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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APPENDIX A TEST DATA AND PLOTS

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APPENDIX C EUT PHOTOGRAPHS

TEST REPORT (Class II Permissive Change)

Applicant : LG Electronics USA
Manufacturer : LG Electronics Inc.
Factory : Shenzhen Shi Xinzhongxin Technology Co., Ltd.
EUT Description
(1) Product : Wireless Audio Module
(2) Model : WL1BKT22
(3) Brand : LG
(4) Power Supply: DC 3.3V

Applicable Standards:

Title 47 FCC CFR Part 15 Subpart E

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2024. 12. 17

Reviewed by:



(Sabrina Wang/Administrator)

Approved by:



(Johnny Hsueh/Section Manager)

1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2024. 12. 17	Original Report	EM-F240523

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.205/15.209	Undesirable Emissions Limits: Radiated Band Edge and Radiated Spurious Emission	PASS
15.407(a)	Maximum Output Power	PASS
Note: The uncertainties value is not used in determining the result.		

3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics USA 111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
Manufacturer	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Factory	Shenzhen Shi Xinzhongxin Technology Co., Ltd. Block A1, Donghuan Industrial Zone, Nanpu Road Shajing Street, Baoan District, Shenzhen, China
Product	Wireless Audio Module
Model	WL1BKT22
Brand	LG

3.2. Description of EUT

Test Model	WL1BKT22			
Serial Number	N/A			
Power Rating	DC 3.3V			
Software Version	V3.1			
Hardware version	TX_V1.7			
RF Features	GFSK			
Transmit Type	1T1R			
Device Category	☐ Outdoor Access Point ☐ Fixed point-to-point Access Point ☒ Indoor Access Point ☒ Mobile and Portable client device			
Test Sample	Sample No.	Test Item	Firmware	
	03	AC Conduction	N/A	
	03	Radiated	N/A	
	02	RF Conducted	N/A	
Sample Status	Trial sample			
Date of Receipt	2024. 10. 30			
Date of Test	2024. 11. 14 ~ 12. 16			
Interface Ports of EUT	None			
Accessories Supplied	None			

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

KDB 789033 D02 General UNII Test Procedures New Rules v02r01
ANSI C63.10:2013

3.4. Information for Permissive Change

- The EUT is an addition version with original FCC ID: BEJ-WL1BKT22 is as following.
 - (1) This is to update flash capacities are controlled by firmware for MCU.
 - (2) This is to add alternative sources of PA IC.
- The differences between this application and original's ID as clarify in following list.

Item	Original	Permissive Change
Model	WL1BKT22	WL1BKT22
MCU	Manufacturer: Beken Corporation Model: CC2538 Flash capacities: 2line	Manufacturer: Beken Corporation Model: CC2538 Flash capacities: 4line (To update flash capacities are controlled by firmware for MCU.)
PA IC	Manufacturer: Chipbetter icroelectronics Inc Model: CB5712	Manufacturer: KANGXI Communication Technologies Model: KCT8533D-1 (To add alternative sources of PA IC that this chip replacement is the pin-for-pin compatible of Original PA IC.)
Software Version	V3.0	V3.1
Soft Version Differences	V3.0 is built in FLASH setting with 2line	V3.1 is built in FLASH setting with 4line

- Due to above different item, there have some test item should be re-tested (see section 2), the test data are recorded in this report.

3.5. Antenna Information

No.	Antenna Part Number	Manufacturer	Antenna Type	Frequency (MHz)	Max Gain(dBi)
1.	Antenna #1	N/A	PCB Printing Antenna	5150	2.66
				5170	2.87
				5190	2.94
				5210	3.25
				5230	3.23
				5250	3.11
				5450	2.98
				5470	2.98
				5490	2.77
				5500	2.59
				5750	2.38
				5770	2.38
				5790	2.48
				5810	2.33
				5830	2.37
				5850	2.22
No.	Antenna Part Number	Manufacturer	Antenna Type	Frequency (MHz)	Max Gain(dBi)
2.	Antenna #2	N/A	PCB Printing Antenna	5150	3.57
				5170	3.35
				5190	3.42
				5210	3.69
				5230	4.00
				5250	3.94
				5450	3.32
				5470	3.48
				5490	3.37
				5500	3.42
				5750	3.98
				5770	4.05
				5790	3.79
				5810	3.94
				5830	4.20
				5850	4.09

3.6. EUT Specifications Assessed in Current Report

Modulation	U-NII Band	Fundamental Range (MHz)	Channel Number	Data Rate
GFSK	1	5155-5245	91	2 Mbps
	3	5730-5848	119	

Channel List									
U-NII Band 1									
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
0	5155	19	5174	38	5193	57	5212	76	5231
1	5156	20	5175	39	5194	58	5213	77	5232
2	5157	21	5176	40	5195	59	5214	78	5233
3	5158	22	5177	41	5196	60	5215	79	5234
4	5159	23	5178	42	5197	61	5216	80	5235
5	5160	24	5179	43	5198	62	5217	81	5236
6	5161	25	5180	44	5199	63	5218	82	5237
7	5162	26	5181	45	5200	64	5219	83	5238
8	5163	27	5182	46	5201	65	5220	84	5239
9	5164	28	5183	47	5202	66	5221	85	5240
10	5165	29	5184	48	5203	67	5222	86	5241
11	5166	30	5185	49	5204	68	5223	87	5242
12	5167	31	5186	50	5205	69	5224	88	5243
13	5168	32	5187	51	5206	70	5225	89	5244
14	5169	33	5188	52	5207	71	5226	90	5245
15	5170	34	5189	53	5208	72	5227		
16	5171	35	5190	54	5209	73	5228		
17	5172	36	5191	55	5210	74	5229		
18	5173	37	5192	56	5211	75	5230		
Channel List									
U-NII Band 3									
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
0	5730	25	5755	50	5780	75	5805	101	5831
1	5731	26	5756	51	5781	76	5806	102	5832
2	5732	27	5757	52	5782	78	5808	103	5833
3	5733	28	5758	53	5783	79	5809	104	5834
4	5734	29	5759	54	5784	80	5810	105	5835
5	5735	30	5760	55	5785	81	5811	106	5836
6	5736	31	5761	56	5786	82	5812	107	5837
7	5737	32	5762	57	5787	83	5813	108	5838
8	5738	33	5763	58	5788	84	5814	109	5839
9	5739	34	5764	59	5789	85	5815	110	5840
10	5740	35	5765	60	5790	86	5816	111	5841
11	5741	36	5766	61	5791	87	5817	112	5842
12	5742	37	5767	62	5792	88	5818	113	5843
13	5743	38	5768	63	5793	89	5819	114	5844
14	5744	39	5769	64	5794	90	5820	115	5845
15	5745	40	5770	65	5795	91	5821	116	5846
16	5746	41	5771	66	5796	92	5822	117	5847
17	5747	42	5772	67	5797	93	5823	118	5848
18	5748	43	5773	68	5798	94	5824		
19	5749	44	5774	69	5799	95	5825		
20	5750	45	5775	70	5800	96	5826		
21	5751	46	5776	71	5801	97	5827		
22	5752	47	5777	72	5802	98	5828		
23	5753	48	5778	73	5803	99	5829		
24	5754	49	5779	74	5804	100	5830		

Note: Test modes are presented at section 3.7.

3.7. Description of Key Components

None

3.8. Test Configuration

Antenna	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)](dB)
#1	8.8	20	0.440	3.565
#2	8.8	20	0.440	3.565

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



AC Conduction
Normal operation

Item	Modulation	Antenna	Test Frequency (MHz)
Radiated Test Case Note 1	GFSK (2 Mbps)	#1	5155, 5195, 5245, 5730, 5790, 5848
		#2	5155, 5195, 5245, 5730, 5790, 5848
	GFSK (2 Mbps)	#1	5155, 5195, 5245, 5730, 5790, 5848
		#2	5155, 5195, 5245, 5730, 5790, 5848
	GFSK (2 Mbps)	#1	5155, 5730, 5848
		#2	5155, 5730, 5848
Conducted Test Case	GFSK (2 Mbps)	#1	5155, 5195, 5245, 5730, 5790, 5848
		#2	5155, 5195, 5245, 5730, 5790, 5848

Note 1: ☒ Mobile Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

☒ Lie ☐ Side ☐ Stand

☐ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

☐ Lie ☐ Side ☐ Stand

3.9. Output Power Setting

Mode	U-NII Band	Centre Frequency (MHz)	Power Setting	
			Antenna #1	Antenna #2
GFSK	1	5155	Default	Default
		5195	Default	Default
		5245	Default	Default
	3	5730	Default	Default
		5790	Default	Default
		5848	Default	Default

3.10. Tested Supporting System List

3.10.1. Support Peripheral Unit

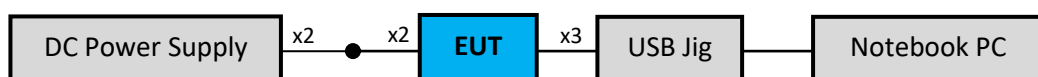
No.	Product	Brand	Model No.	Serial No.	Approval
1.	DC Power Supply	TOP WARD	3303A	N/A	N/A
2.	USB Jig	N/A	N/A	N/A	N/A
3.	Notebook PC	hp	TPN-Q189	5CD8175992	Contains FCC ID: PD93168NG Contains IC: 1000M-3168NG

3.10.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	AC Power Cord: Unshielded, Detachable, 1.8m DC Cable x2 : Unshielded, Detachable, 1.0m DC Cable x2: Unshielded, Undetectable, 0.1m
2.	USB Cable: Unshielded, Undetectable, 1.5m Data Cable x3: Unshielded, Undetectable, 0.1m
3.	Adapter: hp, M/N PPP-012C-S DC Power Cord: Unshielded, Undetectable, 2.0m, Bonded a ferrite core AC Power Cable: Unshielded, Detectable, 1.0m

3.11. Setup Configuration

3.11.1. EUT Configuration for Power Line & Radiated Emission



3.11.2. EUT Configuration for RF Conducted Test Items



3.12. Operating Condition of EUT

Test program “SSCOM V5.13.1” is used for enabling EUT RF function under continues transmitting and choosing channel.

3.13. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.14.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	9kHz-150kHz	±3.6dB
			150kHz-30MHz	±3.3dB
	☒	No. 8 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.8dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.3dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±4.5dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.9dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±3.8dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.7dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.6dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.4dB

Remark : Uncertainty = $ku_c(y)$

Test Items	Uncertainty
Maximum output power	± 0.8dB

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2024.01.09	1 Year
2.	FOUR-LINE V-NETWORK	R&S	ENV432	101567	2024.06.07	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-10	2024.01.15	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2023.12.09	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2024.04.11	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2024.09.04	1 Year
7.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2024.08.12	1 Year
2.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2024.03.21	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2024.06.18	1 Year
4.	Microwave Preamplifier	Agilent	8449B	3008A02678	2024.02.20	1 Year
5.	Microwave Amplifier	Keysight	83051A	MY56480113	2024.09.11	1 Year
6.	Bilog Antenna	TESEQ	CBL6112D	33821	2024.02.17	1 Year
7.	Horn Antenna	EMCO	3115	9112-3775	2024/4/30	1 Year
8.	Horn Antenna	COM-POWER	AH-840	101092	2024.01.12	1 Year
9.	5G Notch Filter	Microwave Circuits	N0452502	459775	2024.04.10	1 Year
10.	5G Notch Filter	Microwave Circuits	N0257881	459776	2024.04.10	1 Year
11.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2024.01.05	1 Year
12.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2024.08.20	1 Year
13.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2024.04.11	1 Year
14.	Digital Thermo-Hygro Meter	EVERY DAY	E-512	RF	2024.04.11	1 Year
15.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9030B	MY61330403	2023.12.05	1 Year
2.	Power Meter	Anritsu	ML2487A	6K00005406	2024.04.11	1 Year
3.	Power Sensor	Anritsu	MA2491A	030873	2024.04.10	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2024.04.11	1 Year

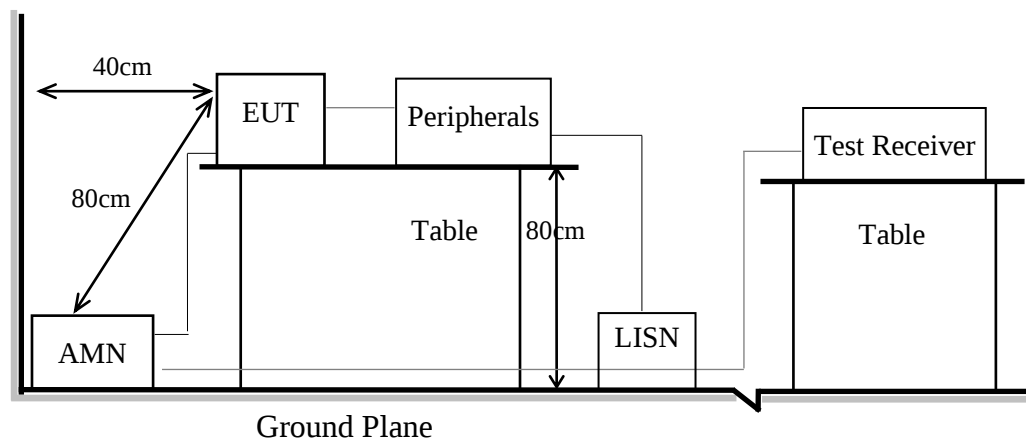
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.10

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

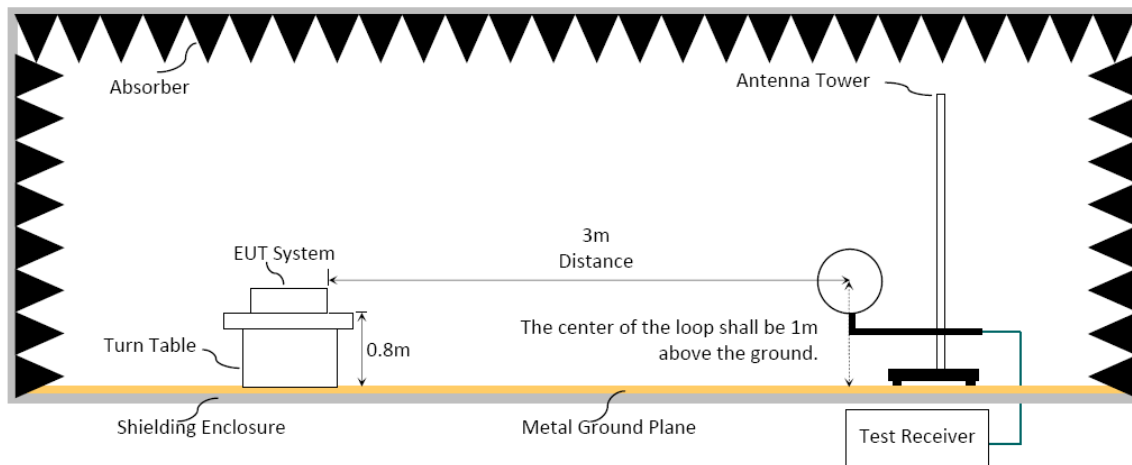
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

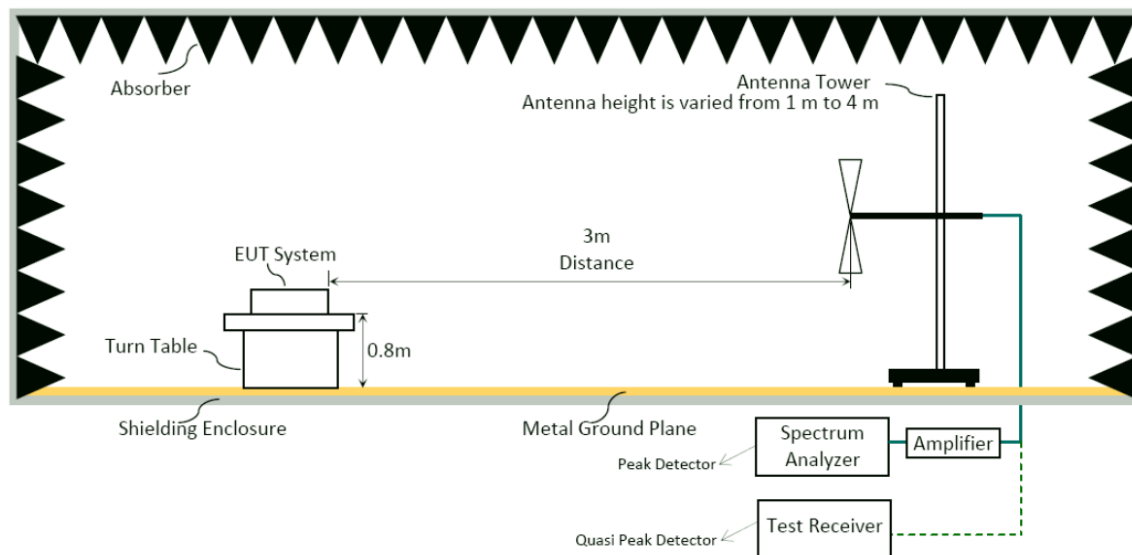
6.1.1. Block Diagram of EUT

Indicated as section 3.10

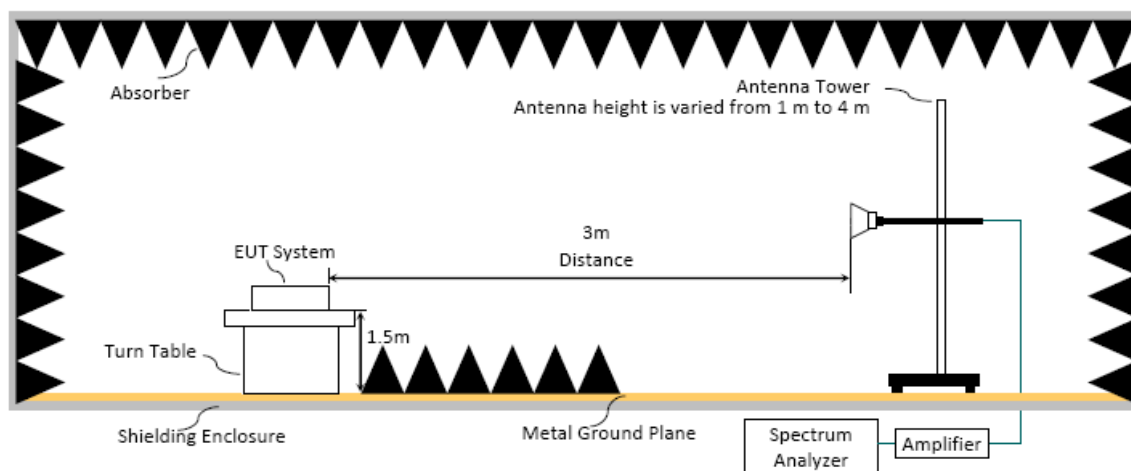
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

Radiated emissions fall in restricted bands, as defined in Section 15.205 must be in compliance with the radiated emission limits specified in 15.209 as below.

6.2.1. General Limit

Frequency (MHz)	Distance(m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

(2) The tighter limit applies to the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) Fundamental and emission fall within operation band are exempted from this section.

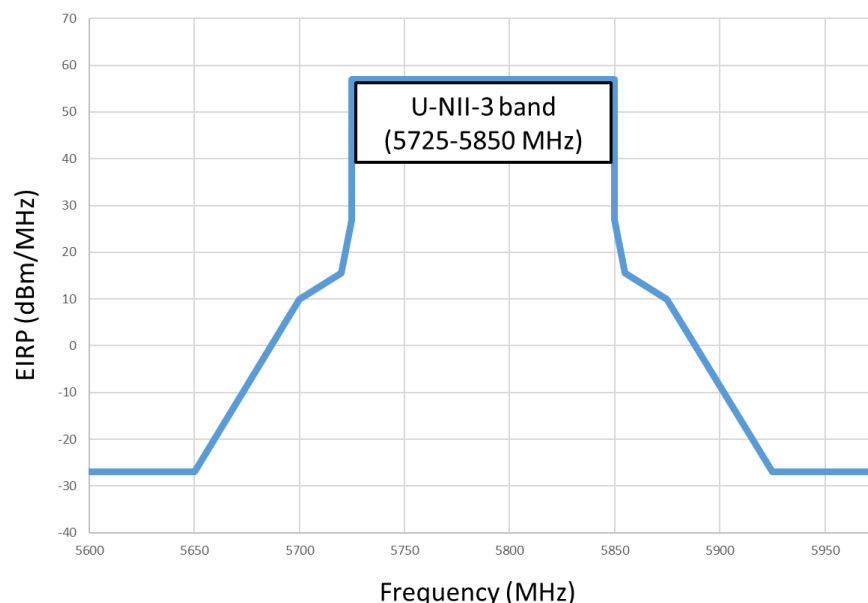
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.2.2. Limit for non-restricted frequency above 1 GHz

Frequency Band (MHz)	E.I.R.P. Limit	Field Strength Limit at 3 m
5150 to 5250	-27 dBm	68.2 dB μ V/m
5250 to 5350		68.2 dB μ V/m
5470 to 5725		68.2 dB μ V/m

Note: Field Strength at 3 m = E.I.R.P. + 95.2 dB

Frequency Band (MHz)	Field Strength Limit at 3 m	
5725 to 5850	☒	15.407(b)(4)(i) All emissions shall be limited to a level of 68.2 dB μ V/m at 75 MHz or more above or below the band edge increasing linearly to 105.2 dB μ V/m at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 110.8 dB μ V/m at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 122.2 dB μ V/m at the band edge.
	☐	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 40GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120kHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic(up to 40 GHz):

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:**■ Option 1:**

(1) RBW = 1MHz

(2) VBW $\geq 1/T$. (Duty Cycle < 98%, when duty cycle presented in section 3.8)

Modulation Type	VBW Setting (VBW $\geq 1/T$)
GFSK (2Mbps)	1kHz

(3) VBW = 10Hz (Duty Cycle $\geq 98\%$, when duty cycle presented in section 3.8)

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

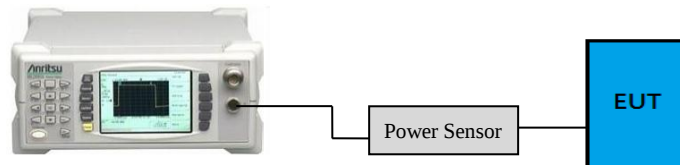
(7) Allow sweeps to continue until the trace stabilizes.

□ Option 2:Average Emission Level(dB μ V/m) = Peak Emission Level(dB μ V/m) + DCCF(dB).**6.4. Measurement Result Explanation****■** Peak Emission Level(dB μ V/m) = Antenna Factor(dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading(dB μ V).**■** Average Emission Level(dB μ V/m) = Antenna Factor(dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading(dB μ V).**□** Average Emission Level(dB μ V/m) = Peak Emission Level(dB μ V/m) + DCCF(dB)
Duty Cycle Correction Factor (DCCF)(dB) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.8.**□** ERP(dBm) = Peak Emission Level(dB μ V/m) - 95.2dB - 2.14dB**6.5. Test Results**

Please refer to Appendix A.

7. MAXIMUM OUTPUT POWER

7.1. Block Diagram of Test Setup



7.2. Specification Limits

Frequency Band (MHz)	Category	Limit
5150 to 5250	Outdoor Access Point	1 W(30 dBm)/ Max e.i.r.p. ≤ 125 mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon
	Fixed point-to-point Access Point	1 W(30 dBm)
	Indoor Access Point	1 W(30 dBm)
	Mobile and Portable client device	250 mW(24 dBm)
5250 to 5350	N/A	250 mW or $11 \text{ dBm} + 10 \log B$ ^{Note1}
5470 to 5725		250 mW or $11 \text{ dBm} + 10 \log B$ ^{Note1}
5725 to 5850		1 W(30 dBm)

Note 1: B is the 26 dB emission bandwidth, which presented in section 7 and appendix A.1.

7.3. Test Procedure

Following measurement procedure is reference to KDB 789033 D02 General UNII Test Procedures New Rules v02r01:

■ Method AVGPM (Measurement using an RF average power meter):

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

□ Method AVGSA-2 (Spectrum channel power)

- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 MHz
- (3) Set the video bandwidth (VBW) ≥ 3 MHz.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

7.4. Test Results

Please refer to Appendix A

8. DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPDNDIX A

TEST DATA AND PLOTS

(Model: WL1BKT22)

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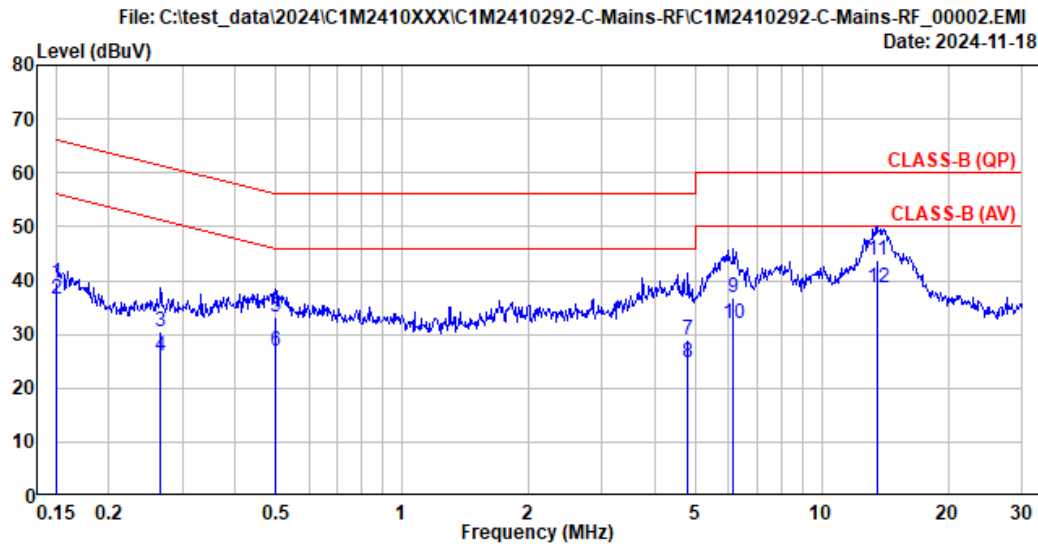
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A.1 CONDUCTED EMISSION

Test Date	2024/11/18	Temp./Hum.	25°C/56%
Test Voltage	DC 3.3V	Tested By	Roy Hung



Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 25°C/56%	Test Rating	: DC 3.3V
EUT Model	: WL18KT22	Engineer	: Roy Hung
Test Mode	: Operating		

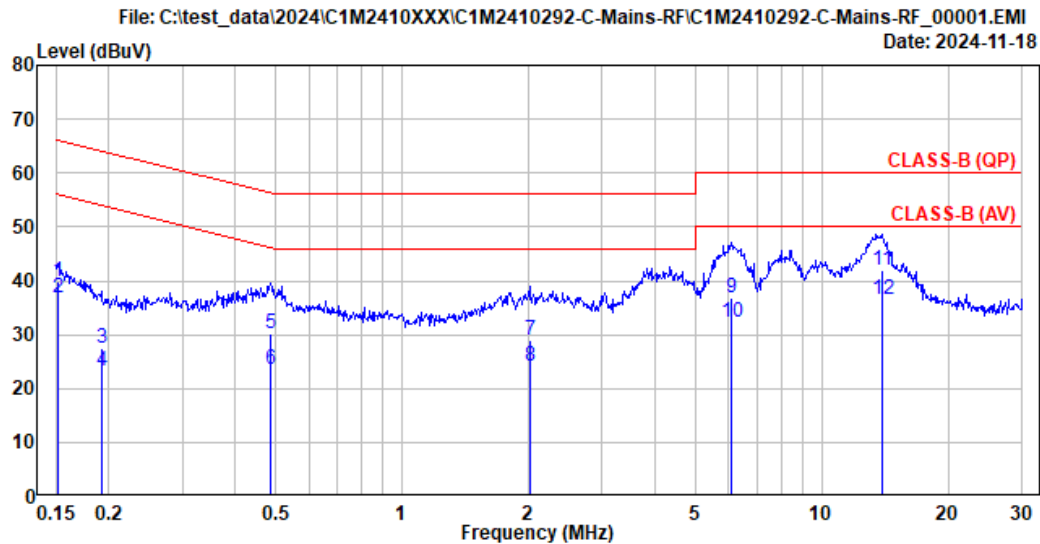
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	10.27	0.03	9.85	19.32	39.47	65.96	26.49	QP
2	0.151	10.27	0.03	9.85	16.31	36.46	55.96	19.50	Average
3	0.266	10.26	0.03	9.85	10.34	30.48	61.25	30.77	QP
4	0.266	10.26	0.03	9.85	5.73	25.87	51.25	25.38	Average
5	0.499	10.26	0.03	9.85	13.21	33.35	56.01	22.66	QP
6	0.499	10.26	0.03	9.85	6.84	26.98	46.01	19.03	Average
7	4.797	10.38	0.09	9.87	8.78	29.12	56.00	26.88	QP
8	4.797	10.38	0.09	9.87	4.27	24.61	46.00	21.39	Average
9	6.153	10.44	0.10	9.87	16.41	36.82	60.00	23.18	QP
10	6.153	10.44	0.10	9.87	11.70	32.11	50.00	17.89	Average
11	13.551	10.70	0.16	9.90	22.97	43.73	60.00	16.27	QP
12	13.551	10.70	0.16	9.90	17.85	38.61	50.00	11.39	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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Test Date	2024/11/18	Temp./Hum.	25°C/56%
Test Voltage	DC 3.3V	Tested By	Roy Hung



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25°C/56%
EUT Model : WL1BKT22
Test Mode : Operating

Data No. : 1
Phase : Line
Test Rating : DC 3.3V
Engineer : Roy Hung

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	10.26	0.03	9.85	19.77	39.91	65.91	26.00	QP
2	0.152	10.26	0.03	9.85	16.63	36.77	55.91	19.14	Average
3	0.192	10.25	0.03	9.85	7.33	27.46	63.93	36.47	QP
4	0.192	10.25	0.03	9.85	3.03	23.16	53.93	30.77	Average
5	0.486	10.25	0.03	9.85	9.95	30.08	56.23	26.15	QP
6	0.486	10.25	0.03	9.85	3.44	23.57	46.23	22.66	Average
7	2.012	10.27	0.06	9.86	8.83	29.02	56.00	26.98	QP
8	2.012	10.27	0.06	9.86	3.99	24.18	46.00	21.82	Average
9	6.089	10.37	0.10	9.87	16.42	36.76	60.00	23.24	QP
10	6.089	10.37	0.10	9.87	11.88	32.22	50.00	17.78	Average
11	13.915	10.53	0.16	9.91	21.25	41.85	60.00	18.15	QP
12	13.915	10.53	0.16	9.91	15.96	36.56	50.00	13.44	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

A.2 RADIATED EMISSION

Test Date	2024/12/16	Temp./Hum.	20°C/48%
Test Voltage	DC 3.3V	Tested By	Hua Wu

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

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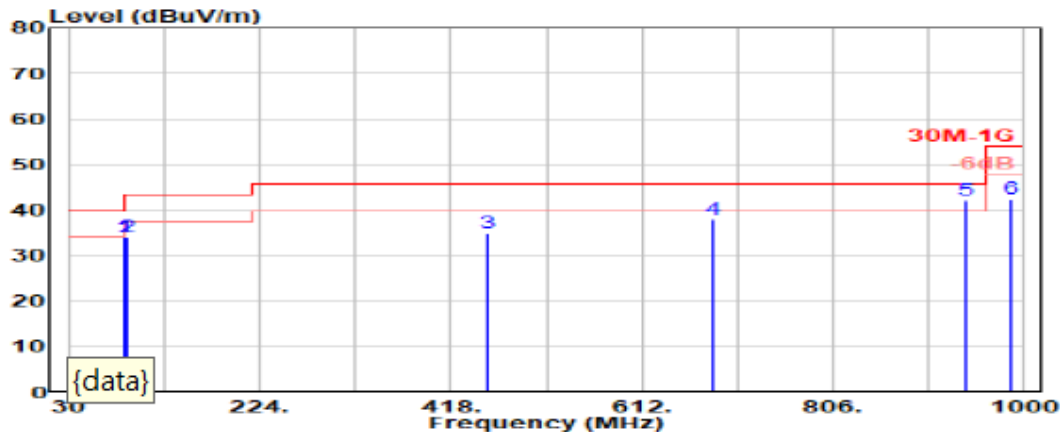
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A.2.1.2 Frequency Below 1GHz

● Antenna #1

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5155MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	87.000	14.17	2.45	27.09	44.56	34.08	40.00	5.92	Peak
2	89.000	14.56	2.47	27.09	44.30	34.24	43.50	9.26	Peak
3	454.500	22.07	6.41	26.62	33.10	34.95	46.00	11.05	Peak
4	684.500	24.46	7.55	25.74	31.78	38.04	46.00	7.96	Peak
5	939.500	26.48	8.98	25.53	32.34	42.26	46.00	3.74	Peak
6	986.500	26.89	9.22	25.66	32.16	42.61	54.00	11.39	Peak

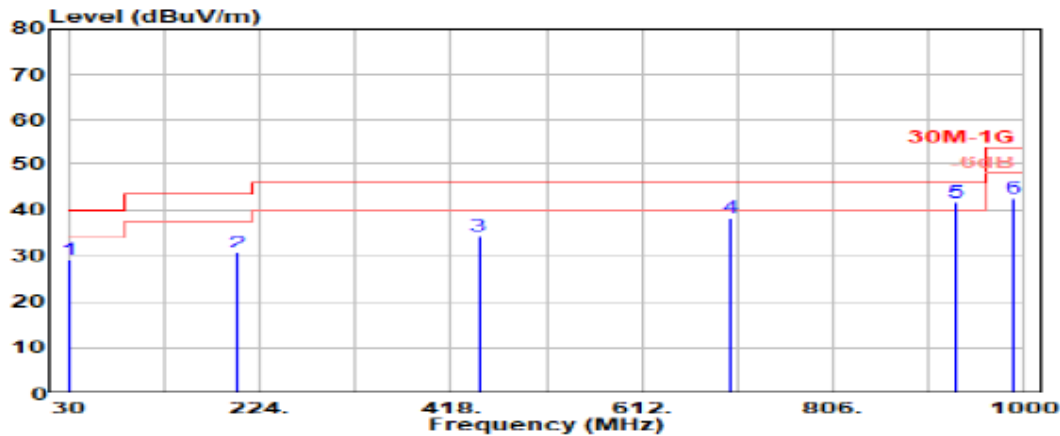
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5155MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL18KT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	32.000	23.14	1.46	27.17	31.92	29.35	40.00	10.65	Peak
2	202.000	15.03	3.72	26.95	38.91	30.71	43.50	12.79	Peak
3	446.500	21.94	6.34	26.64	32.80	34.44	46.00	11.56	Peak
4	702.500	24.54	7.65	25.67	31.71	38.21	46.00	7.79	Peak
5	929.500	26.39	8.92	25.51	31.90	41.70	46.00	4.30	Peak
6	988.000	26.90	9.23	25.67	32.09	42.54	54.00	11.46	Peak

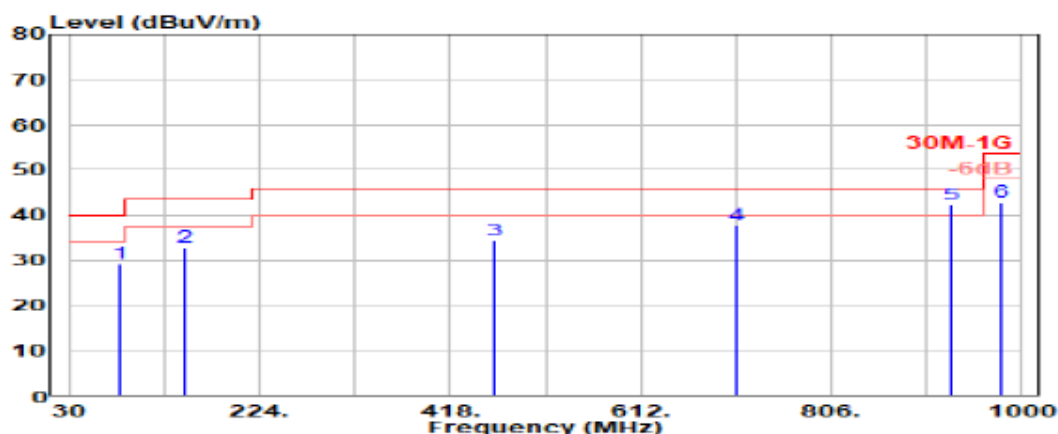
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5195MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821) | RE-11 | 8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	83.000	13.28	2.40	27.10	40.66	29.24	40.00	10.76	Peak
2	148.500	16.41	3.18	27.01	40.20	32.78	43.50	10.72	Peak
3	463.000	22.24	6.47	26.61	32.23	34.33	46.00	11.67	Peak
4	710.500	24.57	7.69	25.65	31.24	37.85	46.00	8.15	Peak
5	928.000	26.38	8.91	25.50	32.57	42.36	46.00	3.64	Peak
6	980.000	26.83	9.19	25.65	32.36	42.73	54.00	11.27	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

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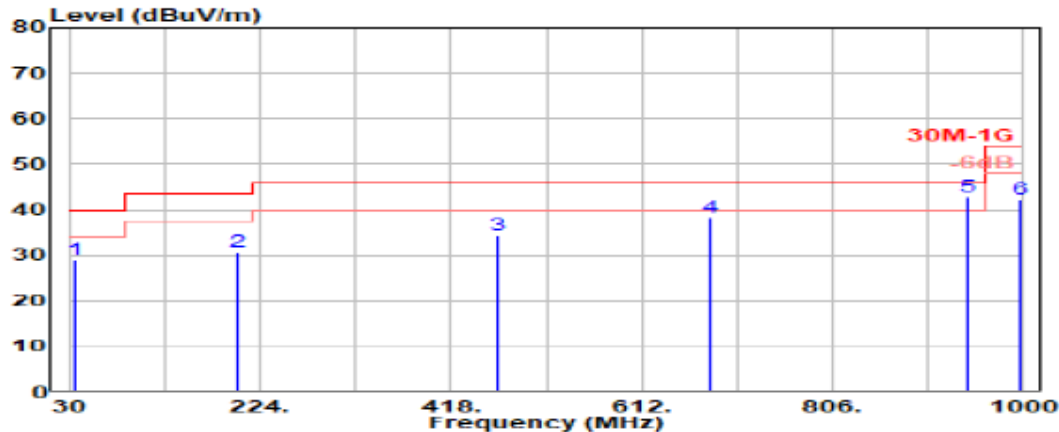
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5195MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	35.000	21.86	1.53	27.17	32.63	28.85	40.00	11.15	Peak
2	201.500	15.00	3.72	26.95	39.01	30.77	43.50	12.73	Peak
3	464.500	22.26	6.49	26.60	32.16	34.31	46.00	11.69	Peak
4	681.500	24.45	7.54	25.75	32.18	38.41	46.00	7.59	Peak
5	944.000	26.53	9.00	25.55	33.03	43.01	46.00	2.99	Peak
6	995.500	26.97	9.27	25.69	31.74	42.29	54.00	11.71	Peak

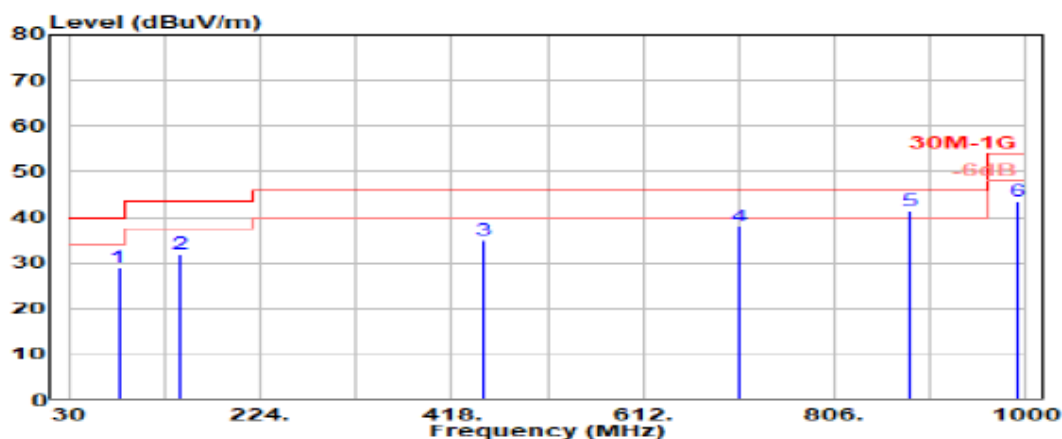
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5245MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	80.500	12.74	2.37	27.10	40.98	28.98	40.00	11.02	Peak
2	144.000	16.76	3.13	27.01	39.09	31.98	43.50	11.52	Peak
3	450.500	22.01	6.37	26.63	33.32	35.06	46.00	10.94	Peak
4	709.000	24.57	7.68	25.65	31.42	38.01	46.00	7.99	Peak
5	882.500	25.95	8.67	25.42	32.28	41.48	46.00	4.52	Peak
6	990.500	26.92	9.24	25.67	32.85	43.34	54.00	10.66	Peak

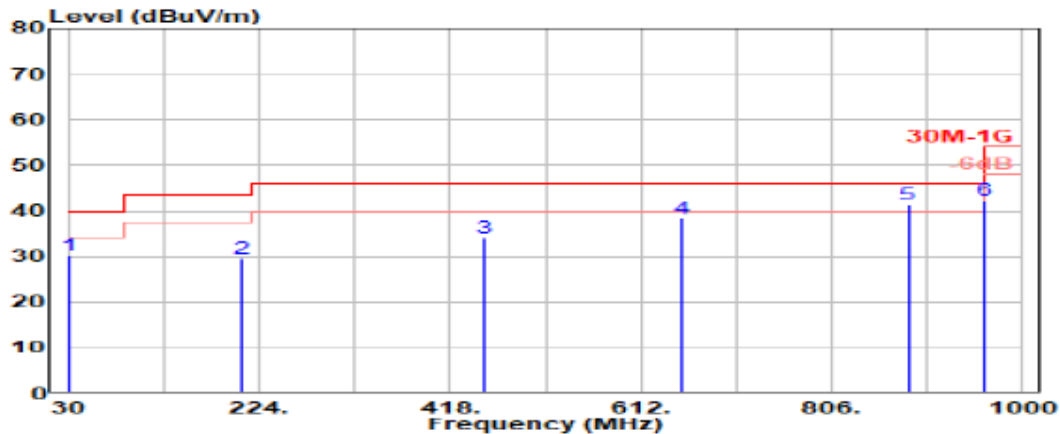
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5245MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL18KT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	31.500	23.36	1.45	27.17	32.70	30.34	40.00	9.66	Peak
2	205.500	15.25	3.77	26.94	37.50	29.57	43.50	13.93	Peak
3	452.500	22.04	6.39	26.63	32.46	34.26	46.00	11.74	Peak
4	653.000	24.31	7.39	25.87	32.48	38.31	46.00	7.69	Peak
5	883.500	25.96	8.67	25.42	32.29	41.50	46.00	4.50	Peak
6	962.000	26.67	9.10	25.60	32.08	42.25	54.00	11.75	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)
+ Reading(dBμV).

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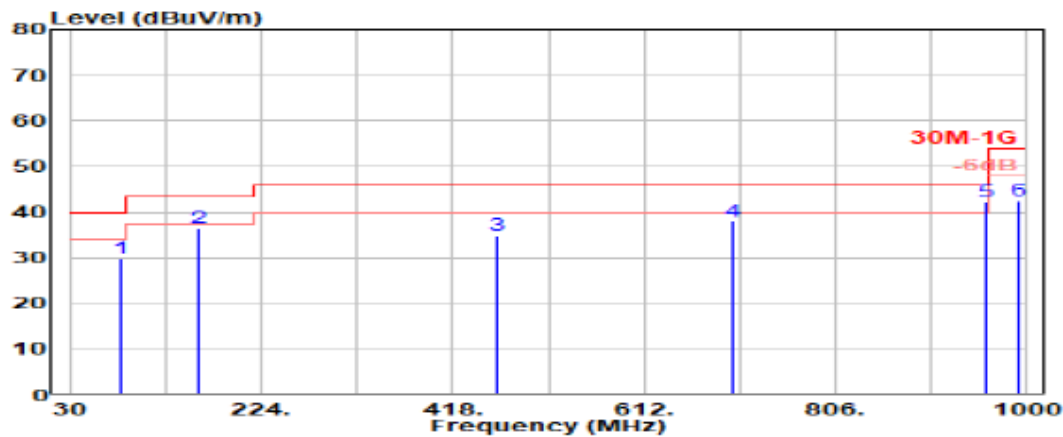
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5730MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5730MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	82.000	13.09	2.39	27.10	41.40	29.78	40.00	10.22	Peak
2	161.500	15.53	3.32	26.99	44.82	36.67	43.50	6.83	Peak
3	464.000	22.25	6.48	26.60	33.00	35.14	46.00	10.86	Peak
4	703.000	24.54	7.65	25.67	31.65	38.16	46.00	7.84	Peak
5	957.500	26.64	9.07	25.58	32.22	42.34	46.00	3.66	Peak
6	991.500	26.93	9.25	25.68	32.00	42.50	54.00	11.50	Peak

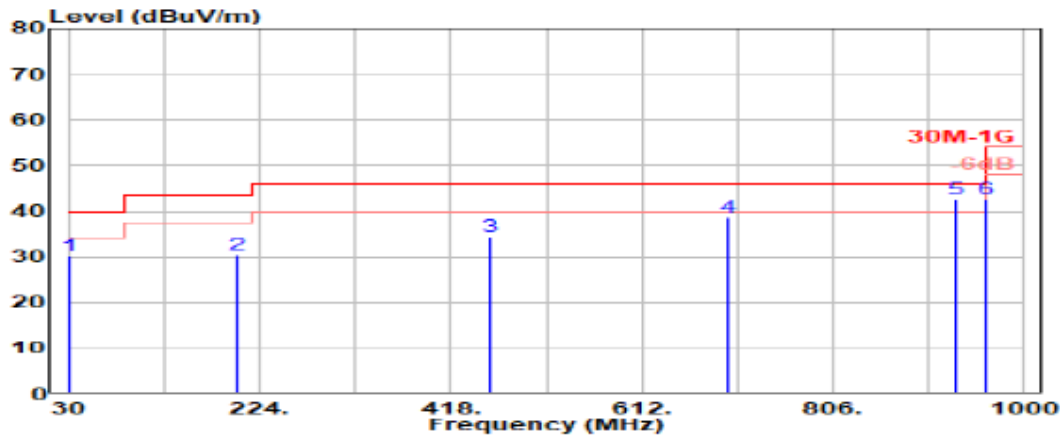
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5730MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5730MHz(GFSK)
: ANT1
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.500	23.36	1.45	27.17	32.46	30.09	40.00	9.91	Peak
2	202.000	15.03	3.72	26.95	38.63	30.43	43.50	13.07	Peak
3	457.000	22.12	6.43	26.62	32.55	34.48	46.00	11.52	Peak
4	699.500	24.52	7.63	25.68	32.06	38.52	46.00	7.48	Peak
5	931.000	26.40	8.93	25.51	32.73	42.55	46.00	3.45	Peak
6	962.000	26.67	9.10	25.60	32.33	42.50	54.00	11.50	Peak

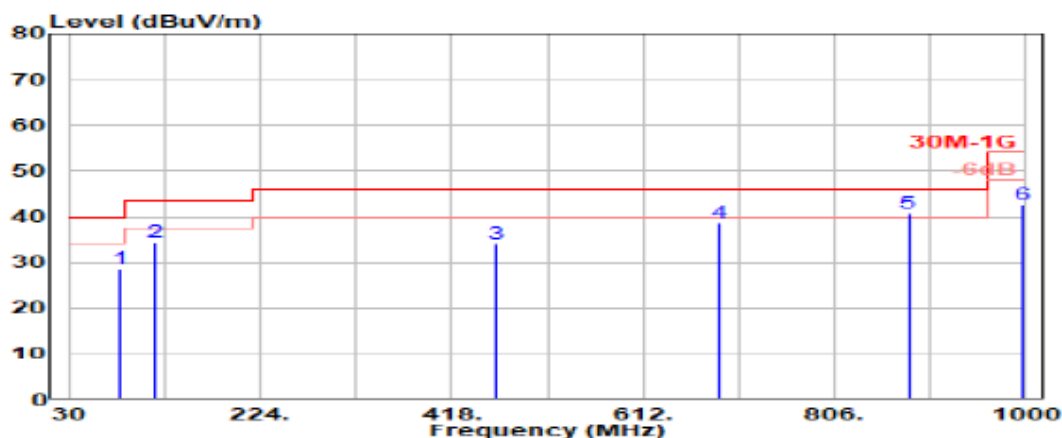
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5790MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5790MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	81.500	12.96	2.38	27.10	40.55	28.79	40.00	11.21	Peak
2	118.500	17.84	2.83	27.05	40.79	34.41	43.50	9.09	Peak
3	463.000	22.24	6.47	26.61	32.03	34.14	46.00	11.86	Peak
4	690.000	24.48	7.58	25.72	32.32	38.66	46.00	7.34	Peak
5	881.000	25.94	8.66	25.42	31.61	40.79	46.00	5.21	Peak
6	997.000	26.98	9.27	25.69	32.08	42.64	54.00	11.36	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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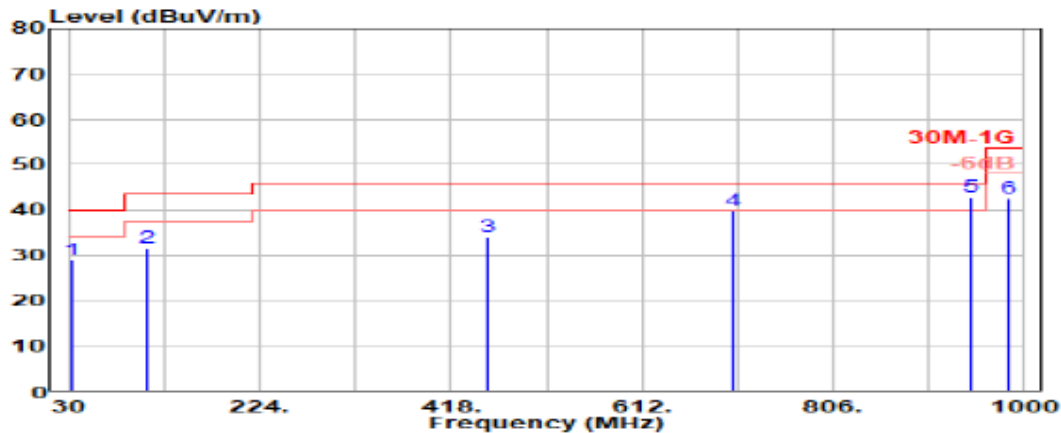
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5790MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5790MHz(GFSK)
: ANT1
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.000	22.69	1.48	27.17	31.83	28.83	40.00	11.17	Peak
2	110.000	17.21	2.74	27.06	38.67	31.55	43.50	11.95	Peak
3	456.500	22.11	6.42	26.62	32.21	34.12	46.00	11.88	Peak
4	705.000	24.55	7.66	25.67	33.45	40.00	46.00	6.00	Peak
5	945.500	26.54	9.01	25.55	32.83	42.83	46.00	3.17	Peak
6	984.500	26.88	9.21	25.66	32.15	42.58	54.00	11.42	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

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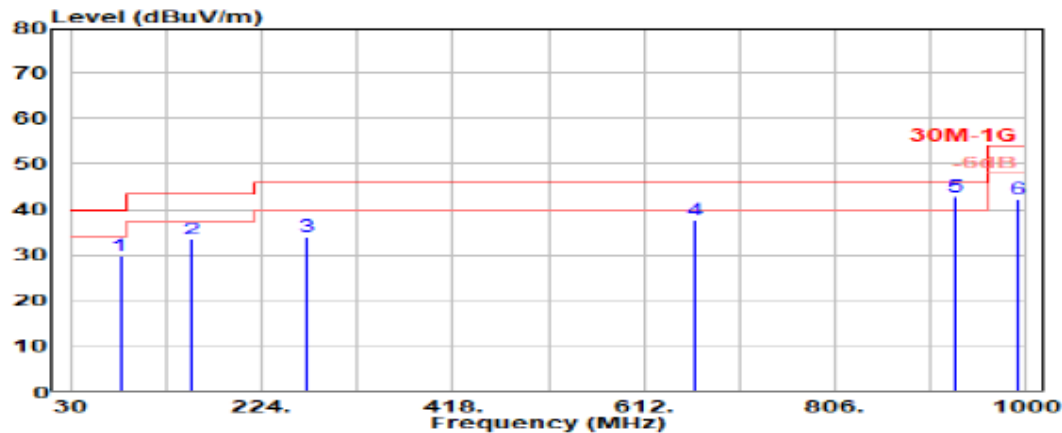
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5848MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5848MHz(GFSK)
: ANT1
:
Ant. Pol : HORIZONTAL
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	80.500	12.74	2.37	27.10	41.96	29.96	40.00	10.04	Peak
2	153.000	16.06	3.23	27.00	41.24	33.53	43.50	9.97	Peak
3	270.000	18.18	4.44	26.86	38.31	34.07	46.00	11.93	Peak
4	663.500	24.36	7.45	25.83	31.88	37.86	46.00	8.14	Peak
5	927.500	26.38	8.91	25.50	33.02	42.81	46.00	3.19	Peak
6	991.500	26.93	9.25	25.68	31.90	42.40	54.00	11.60	Peak

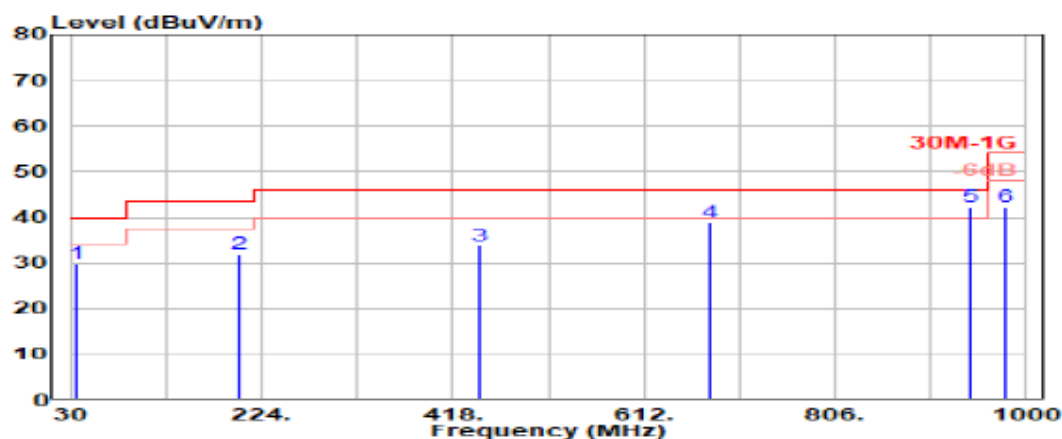
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5848MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5848MHz(GFSK)
: ANT1
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	35.000	21.86	1.53	27.17	33.58	29.81	40.00	10.19	Peak
2	202.000	15.03	3.72	26.95	40.17	31.98	43.50	11.52	Peak
3	445.000	21.92	6.33	26.64	32.28	33.88	46.00	12.12	Peak
4	679.500	24.44	7.53	25.76	32.62	38.82	46.00	7.18	Peak
5	944.000	26.53	9.00	25.55	32.35	42.33	46.00	3.67	Peak
6	980.000	26.83	9.19	25.65	31.86	42.23	54.00	11.77	Peak

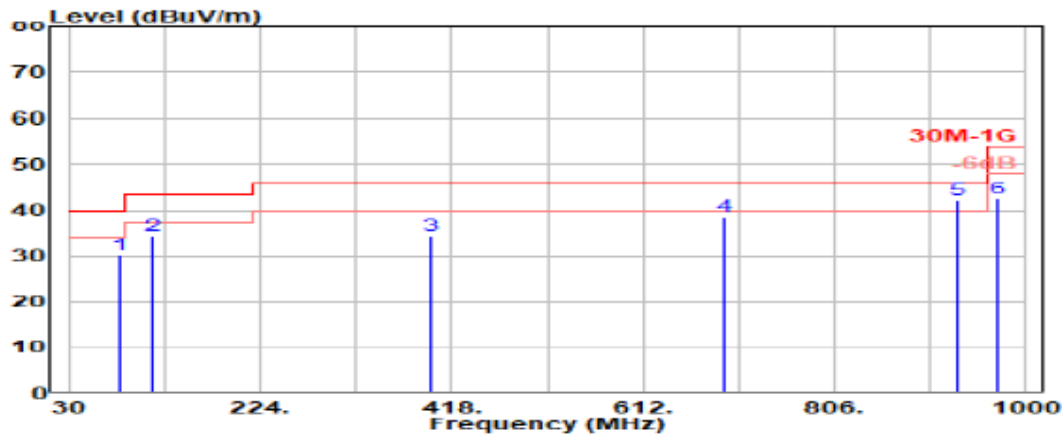
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB) + Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5155MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	81.500	12.96	2.38	27.10	41.92	30.16	40.00	9.84	Peak
2	115.000	17.57	2.79	27.05	41.16	34.47	43.50	9.03	Peak
3	396.500	21.03	5.89	26.75	34.10	34.27	46.00	11.73	Peak
4	694.000	24.50	7.60	25.70	32.35	38.74	46.00	7.26	Peak
5	931.500	26.41	8.93	25.51	32.39	42.22	46.00	3.78	Peak
6	971.000	26.75	9.14	25.62	32.17	42.44	54.00	11.56	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB) + Reading(dBμV).

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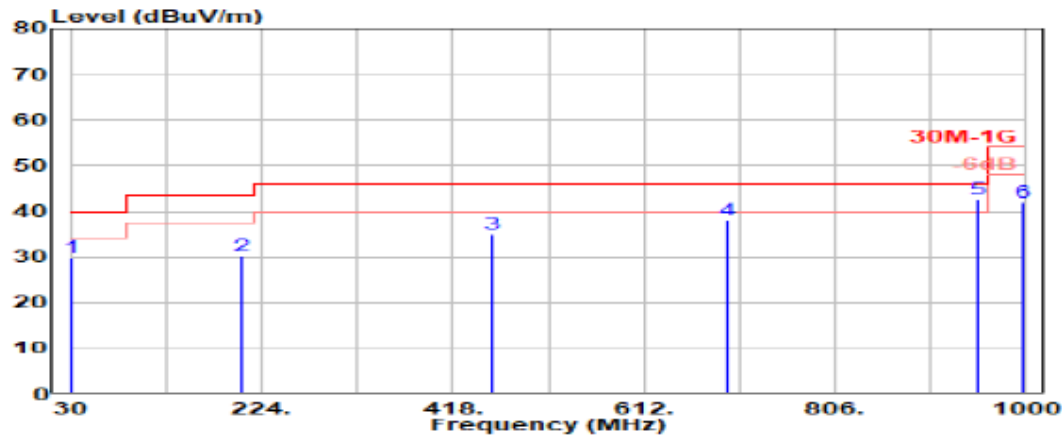
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5155MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	31.500	23.36	1.45	27.17	32.33	29.96	40.00	10.04	Peak
2	204.500	15.19	3.76	26.94	38.06	30.06	43.50	13.44	Peak
3	458.500	22.16	6.44	26.62	32.93	34.91	46.00	11.09	Peak
4	696.000	24.50	7.61	25.70	31.53	37.94	46.00	8.06	Peak
5	950.500	26.57	9.03	25.57	32.43	42.47	46.00	3.53	Peak
6	995.500	26.97	9.27	25.69	31.51	42.06	54.00	11.94	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)
+ Reading(dBμV).

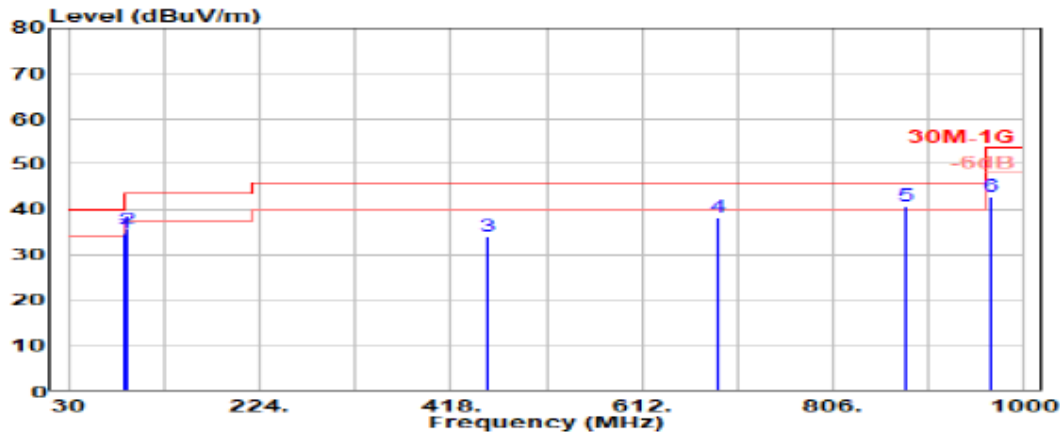
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● Antenna #2

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5195MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL18KT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	87.000	14.17	2.45	27.09	45.27	34.79	40.00	5.21	Peak
2	89.500	14.66	2.47	27.09	45.72	35.76	43.50	7.74	Peak
3	455.000	22.08	6.41	26.62	32.34	34.21	46.00	11.79	Peak
4	688.000	24.47	7.57	25.73	32.15	38.46	46.00	7.54	Peak
5	878.500	25.91	8.65	25.42	31.76	40.90	46.00	5.10	Peak
6	966.000	26.72	9.12	25.61	32.56	42.78	54.00	11.22	Peak

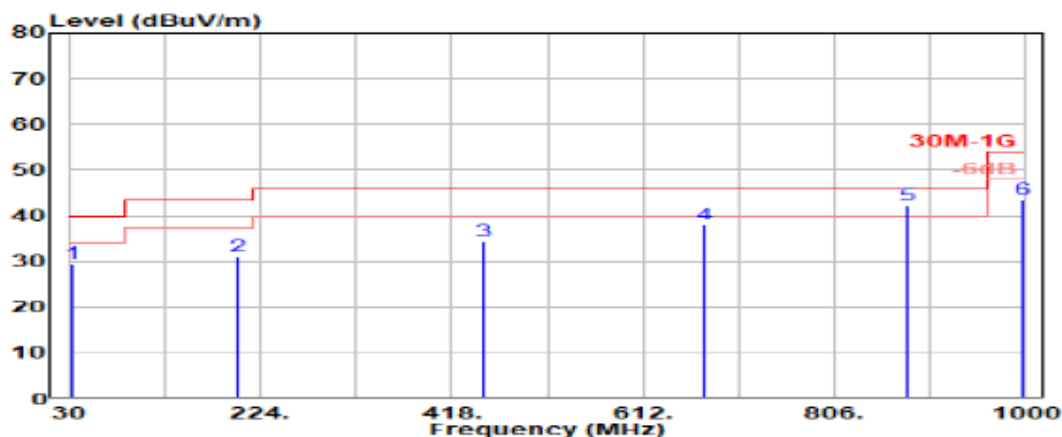
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5195MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5195MHz(GFSK)
: ANT2
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	34.500	22.05	1.52	27.17	33.16	29.57	40.00	10.43	Peak
2	201.500	15.00	3.72	26.95	39.29	31.05	43.50	12.45	Peak
3	451.000	22.02	6.38	26.63	32.59	34.35	46.00	11.65	Peak
4	673.000	24.41	7.49	25.79	31.78	37.90	46.00	8.10	Peak
5	880.000	25.93	8.65	25.42	33.20	42.37	46.00	3.63	Peak
6	997.500	26.99	9.28	25.69	32.83	43.40	54.00	10.60	Peak

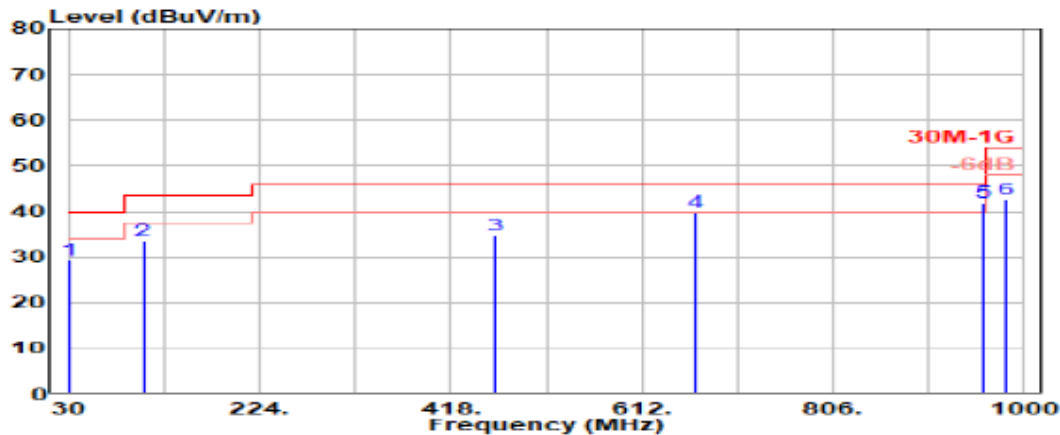
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5245MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	31.500	23.36	1.45	27.17	31.54	29.18	40.00	10.82	Peak
2	106.000	16.88	2.69	27.07	40.94	33.44	43.50	10.06	Peak
3	464.000	22.25	6.48	26.60	32.49	34.62	46.00	11.38	Peak
4	666.500	24.38	7.46	25.82	33.76	39.78	46.00	6.22	Peak
5	958.500	26.64	9.08	25.59	31.90	42.03	46.00	3.97	Peak
6	981.500	26.85	9.20	25.65	32.12	42.51	54.00	11.49	Peak

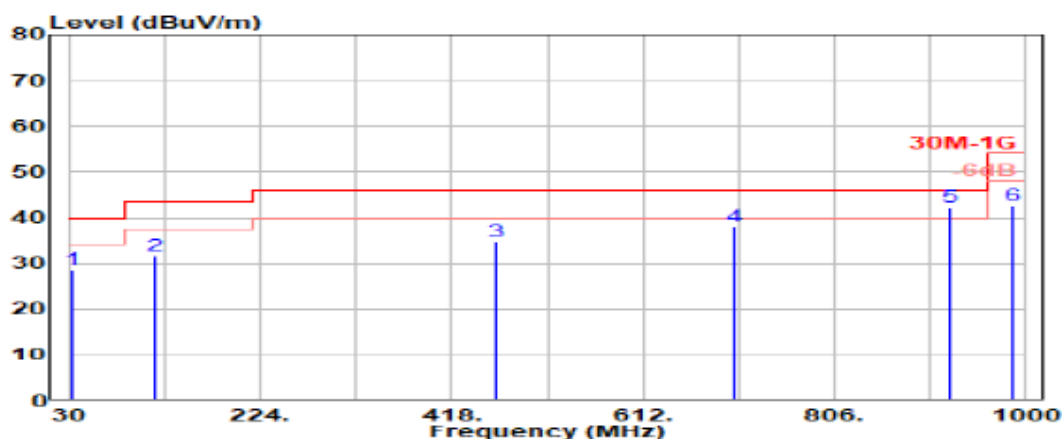
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5245MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5245MHz(GFSK)
: ANT2
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.500	22.47	1.50	27.17	31.96	28.76	40.00	11.24	Peak
2	118.500	17.84	2.83	27.05	38.00	31.62	43.50	11.88	Peak
3	463.000	22.24	6.47	26.61	32.74	34.85	46.00	11.15	Peak
4	705.000	24.55	7.66	25.67	31.39	37.94	46.00	8.06	Peak
5	923.000	26.34	8.89	25.49	32.48	42.22	46.00	3.78	Peak
6	985.500	26.88	9.22	25.66	32.05	42.48	54.00	11.52	Peak

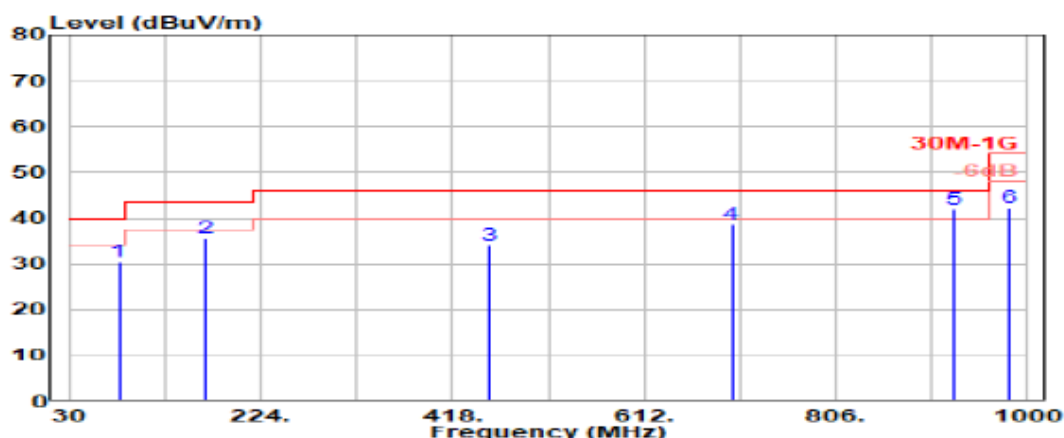
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

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New Taipei City244, Taiwan

Tel: +886 2 26099301
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5730MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5730MHz(GFSK)
: ANT2
:
Ant. Pol : HORIZONTAL
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	80.500	12.74	2.37	27.10	42.34	30.34	40.00	9.66	Peak
2	168.000	15.27	3.39	26.98	43.86	35.53	43.50	7.97	Peak
3	454.500	22.07	6.41	26.62	32.39	34.24	46.00	11.76	Peak
4	700.500	24.52	7.63	25.68	32.09	38.57	46.00	7.43	Peak
5	924.500	26.35	8.90	25.49	32.34	42.09	46.00	3.91	Peak
6	982.500	26.86	9.20	25.65	31.97	42.37	54.00	11.63	Peak

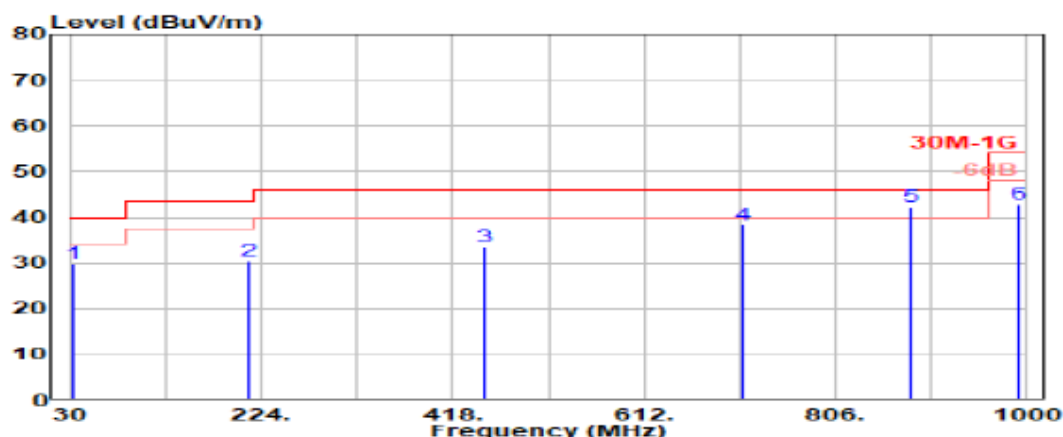
Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBuV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5730MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5730MHz(GFSK)
: ANT2
: Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	34.000	22.25	1.51	27.17	33.20	29.79	40.00	10.21	Peak
2	212.500	15.71	3.85	26.93	37.83	30.46	43.50	13.04	Peak
3	450.500	22.01	6.37	26.63	31.83	33.58	46.00	12.42	Peak
4	711.500	24.58	7.70	25.65	31.58	38.21	46.00	7.79	Peak
5	882.000	25.95	8.66	25.42	32.99	42.18	46.00	3.82	Peak
6	990.500	26.92	9.24	25.67	32.24	42.73	54.00	11.27	Peak

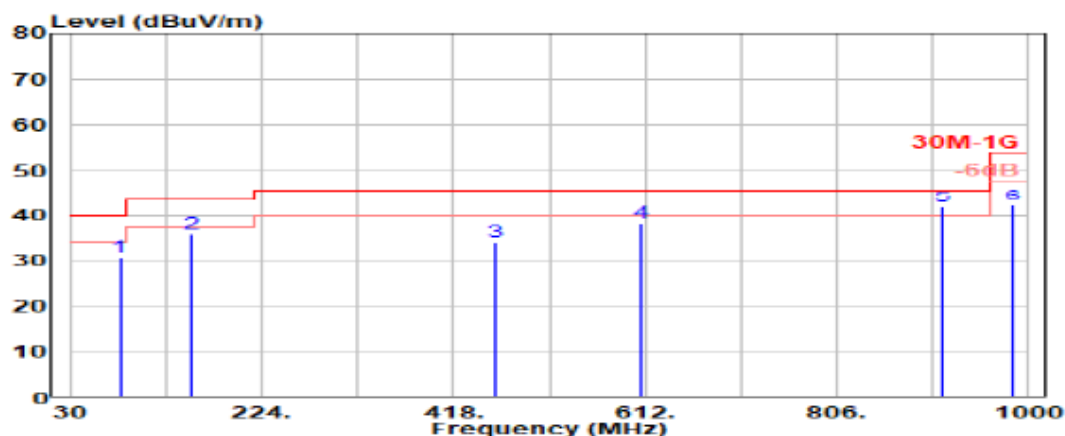
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5790MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5790MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	80.500	12.74	2.37	27.10	42.80	30.80	40.00	9.20	Peak
2	153.000	16.06	3.23	27.00	43.74	36.03	43.50	7.47	Peak
3	461.000	22.21	6.46	26.61	32.21	34.26	46.00	11.74	Peak
4	607.000	24.10	7.14	26.08	33.15	38.31	46.00	7.69	Peak
5	913.500	26.26	8.83	25.46	32.45	42.08	46.00	3.92	Peak
6	985.000	26.88	9.21	25.66	31.69	42.12	54.00	11.88	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

Audix Technology Corp.

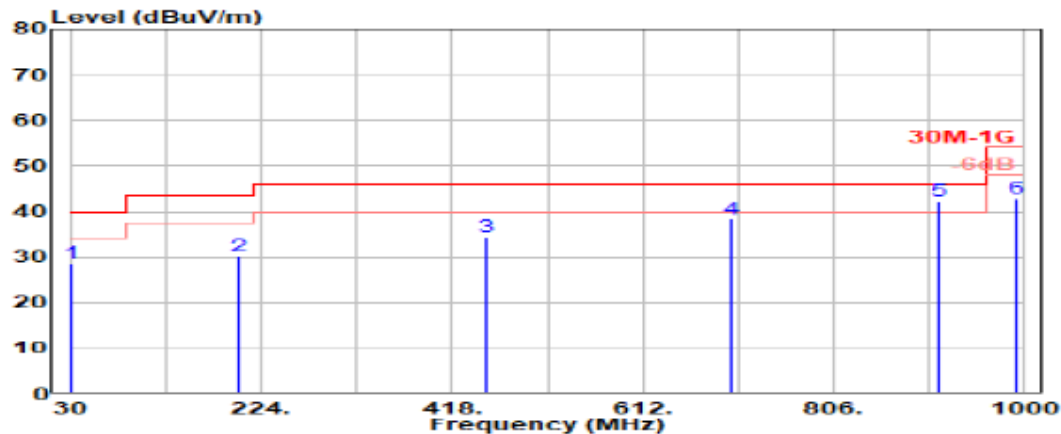
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5790MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5790MHz(GFSK)
: ANT2
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	31.000	23.58	1.44	27.17	30.89	28.73	40.00	11.27	Peak
2	201.000	14.96	3.71	26.95	38.47	30.19	43.50	13.31	Peak
3	453.000	22.05	6.39	26.63	32.63	34.44	46.00	11.56	Peak
4	701.500	24.53	7.64	25.68	31.80	38.29	46.00	7.71	Peak
5	913.000	26.25	8.83	25.46	32.61	42.24	46.00	3.76	Peak
6	991.000	26.92	9.24	25.68	32.46	42.95	54.00	11.05	Peak

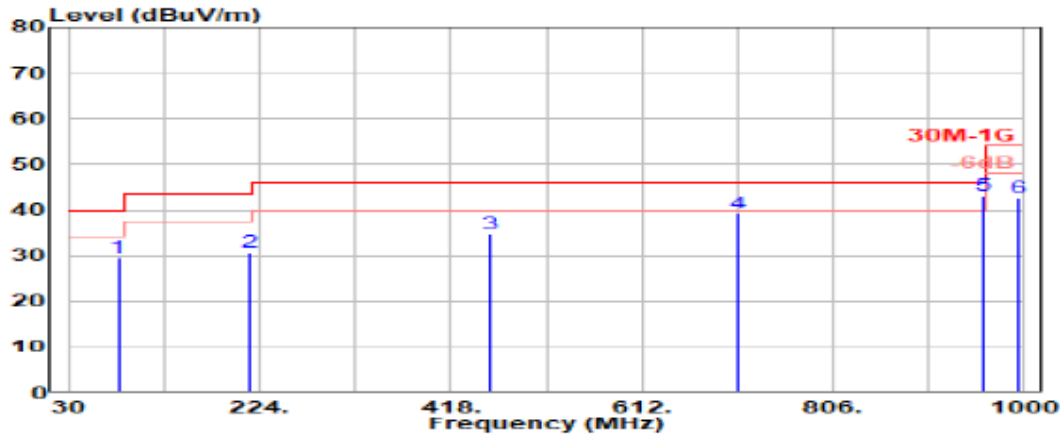
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamplifier Gain(dB) + Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5848MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G Ant. Pol : HORIZONTAL
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5848MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	80.500	12.74	2.37	27.10	41.49	29.49	40.00	10.51	Peak
2	213.000	15.74	3.86	26.93	38.11	30.78	43.50	12.72	Peak
3	457.000	22.12	6.43	26.62	32.70	34.63	46.00	11.37	Peak
4	710.500	24.57	7.69	25.65	32.50	39.12	46.00	6.88	Peak
5	957.500	26.64	9.07	25.58	32.98	43.10	46.00	2.90	Peak
6	993.500	26.95	9.26	25.68	31.94	42.47	54.00	11.53	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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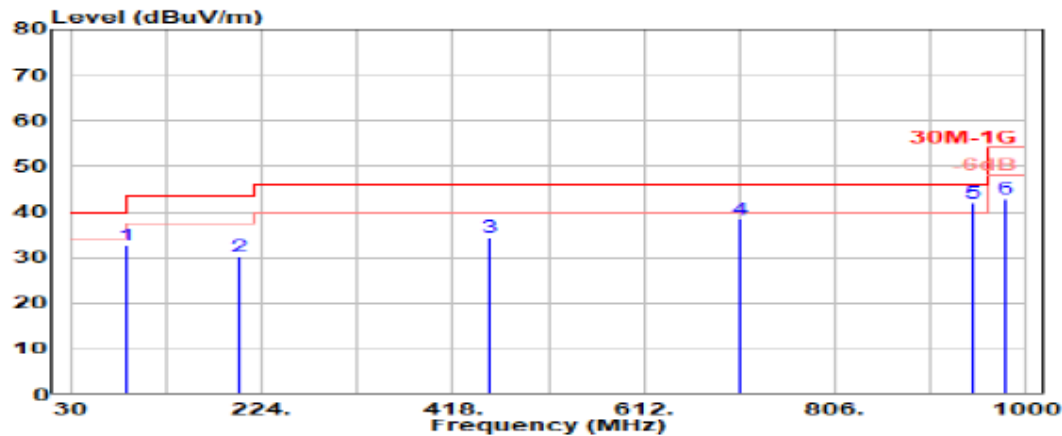
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5848MHz

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010A(071)
Instrument 2 : CBL6112D (821)|RE-11|8447D (938)
Instrument 3 :
Distance/Limit : 3m/30M-1G
Environment : 20°C / 48%
EUT Model : WL1BKT22
Test Memo : Tx 5848MHz(GFSK)
: ANT2
:
Ant. Pol : Vertical
Test Rating : DC 3.3V
Engineer : Hua

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	87.000	14.17	2.45	27.09	43.03	32.56	40.00	7.44	Peak
2	201.000	14.96	3.71	26.95	38.52	30.25	43.50	13.25	Peak
3	454.500	22.07	6.41	26.62	32.60	34.46	46.00	11.54	Peak
4	710.000	24.57	7.69	25.65	31.73	38.34	46.00	7.66	Peak
5	945.000	26.54	9.01	25.55	32.09	42.09	46.00	3.91	Peak
6	979.000	26.82	9.18	25.64	32.52	42.89	54.00	11.11	Peak

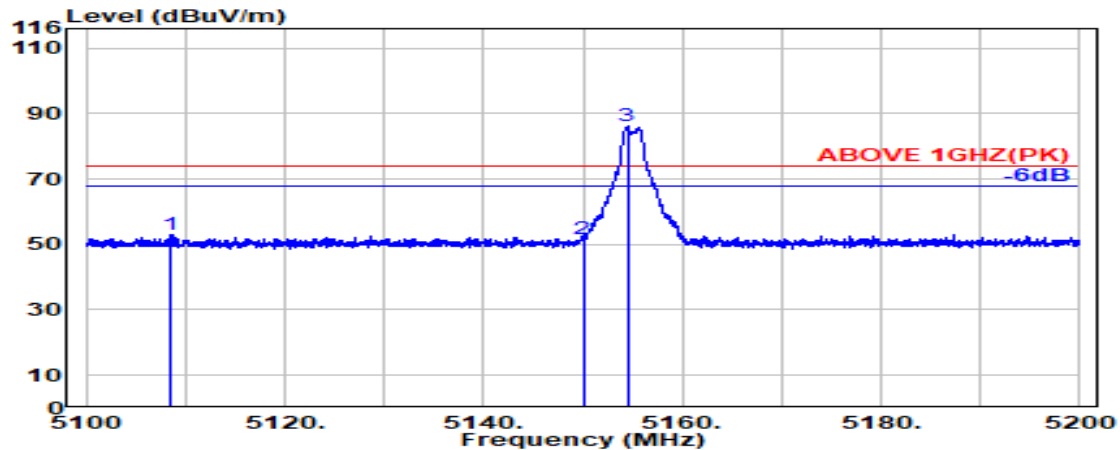
Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

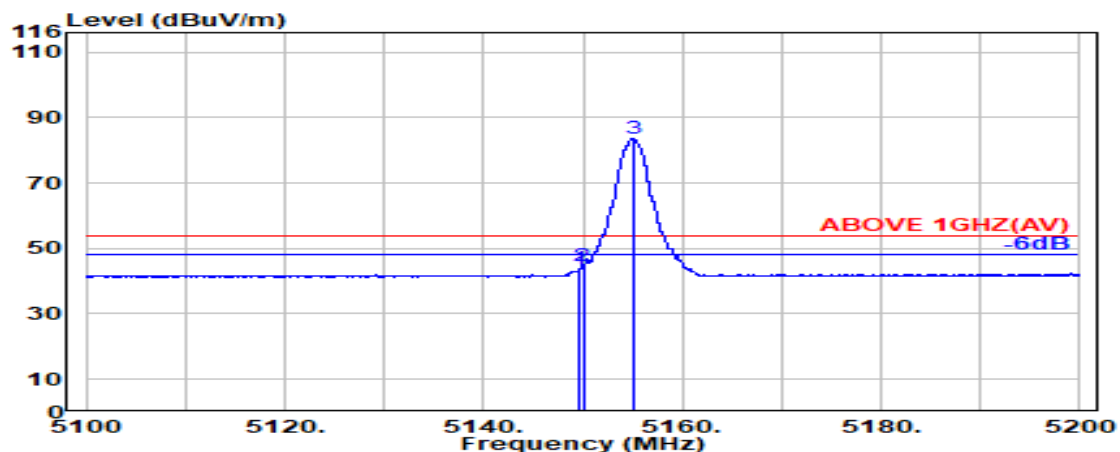
● Antenna #1

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5155MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5108.600	33.70	8.52	34.26	44.81	52.77	74.00	21.23	Peak
5150.000	33.70	8.54	34.24	43.62	51.63	74.00	22.37	Peak
@ 5154.457	33.70	8.55	34.24	78.04	86.05	---	---	Peak

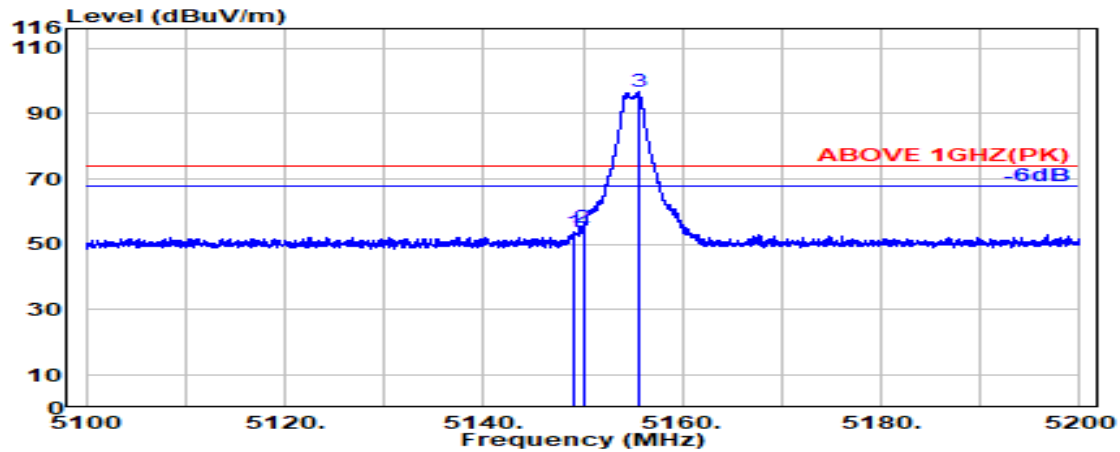


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.686	33.70	8.54	34.24	35.60	43.60	54.00	10.40	Average
5150.000	33.70	8.54	34.24	36.65	44.65	54.00	9.35	Average
@ 5155.029	33.70	8.55	34.24	75.58	83.59	---	---	Average

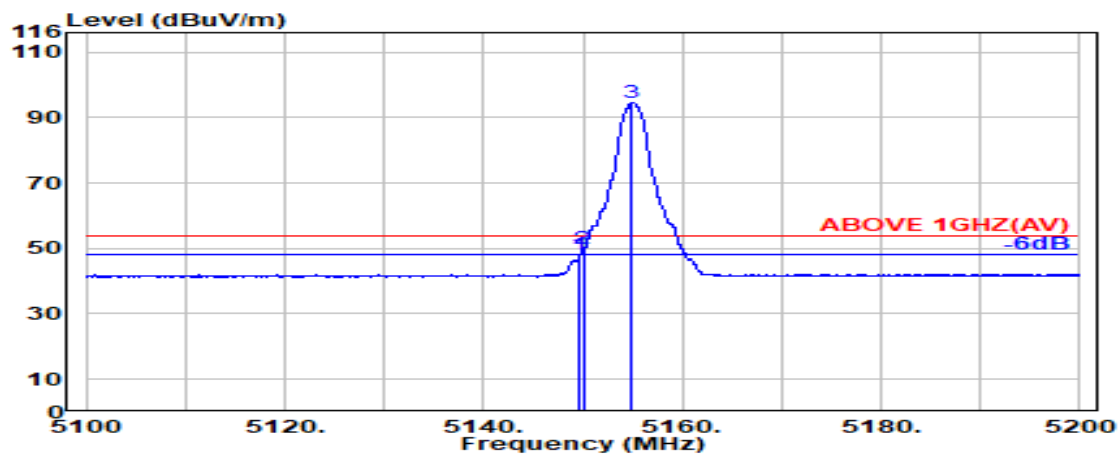
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5155MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5149.200	33.70	8.54	34.24	45.87	53.87	74.00	20.13	Peak
5150.000	33.70	8.54	34.24	47.03	55.04	74.00	18.96	Peak
@ 5155.571	33.70	8.55	34.24	88.65	96.66	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5149.686	33.70	8.54	34.24	39.99	48.00	54.00	6.00	Average
5150.000	33.70	8.54	34.24	41.82	49.82	54.00	4.18	Average
@ 5154.971	33.70	8.55	34.24	86.63	94.64	---	---	Average

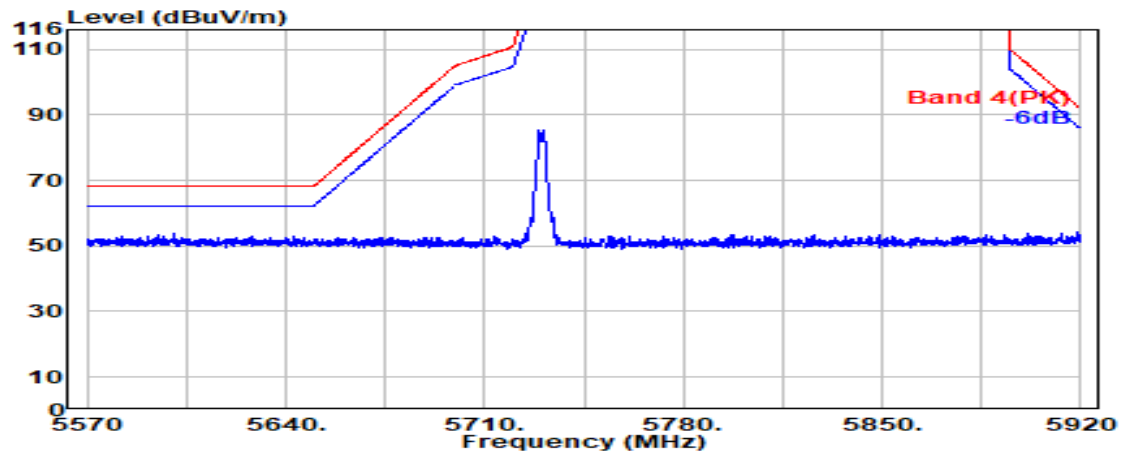
Remark: The “@” means fundamental frequency, it is ignored in this section.

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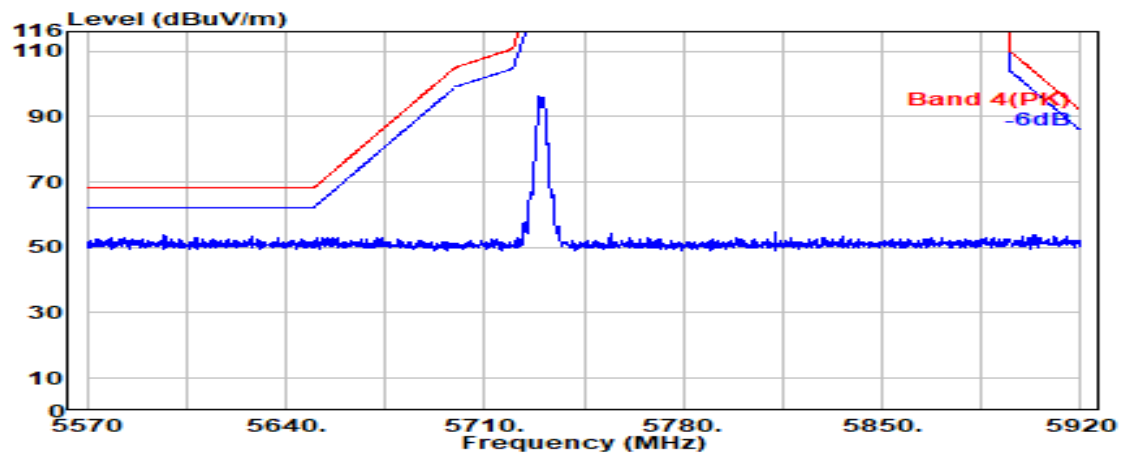
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5730MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

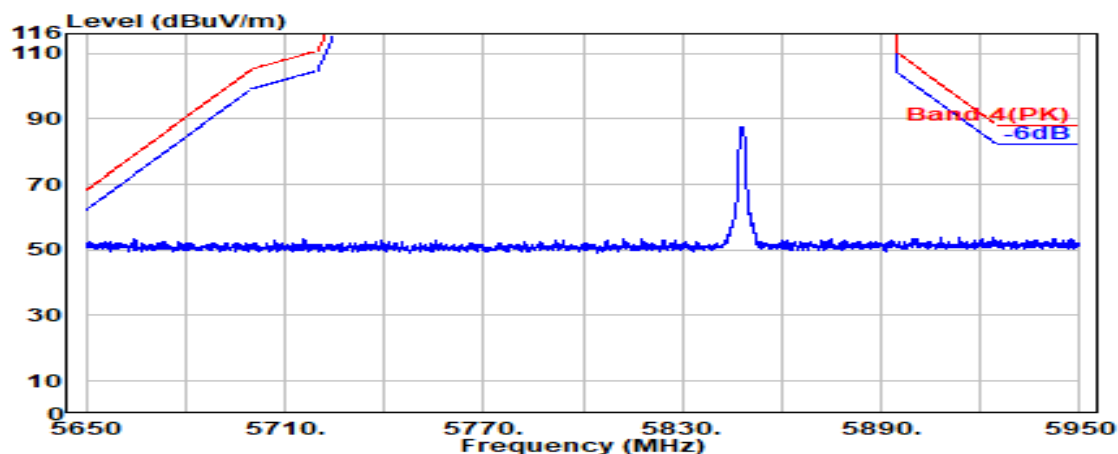


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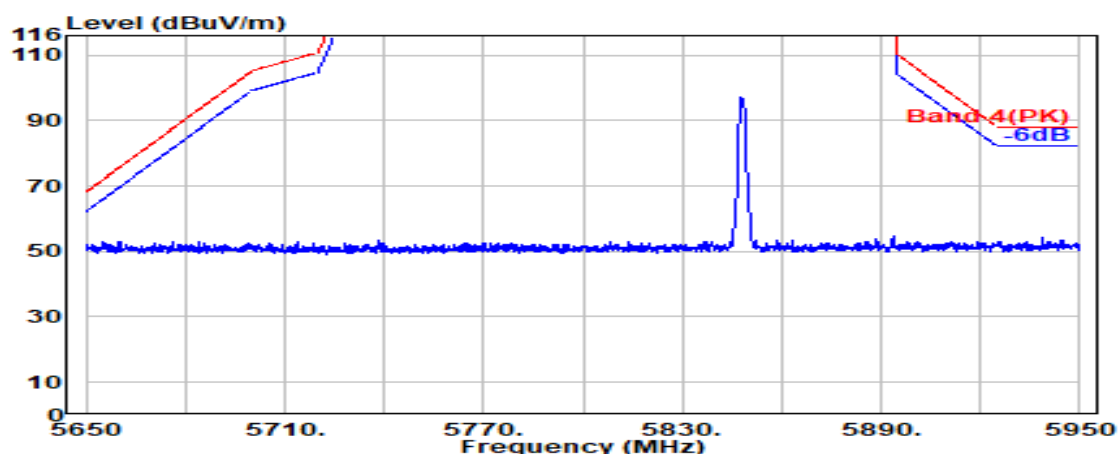
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5848MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

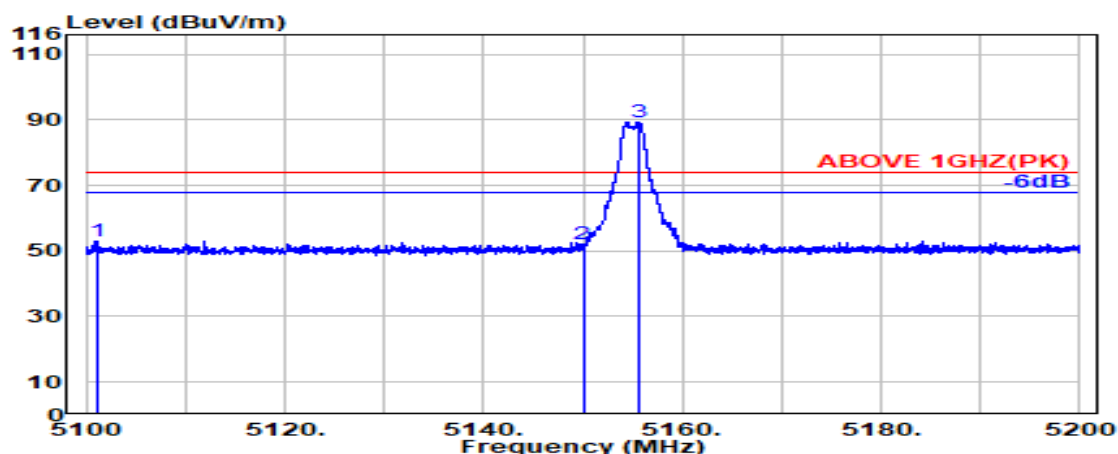


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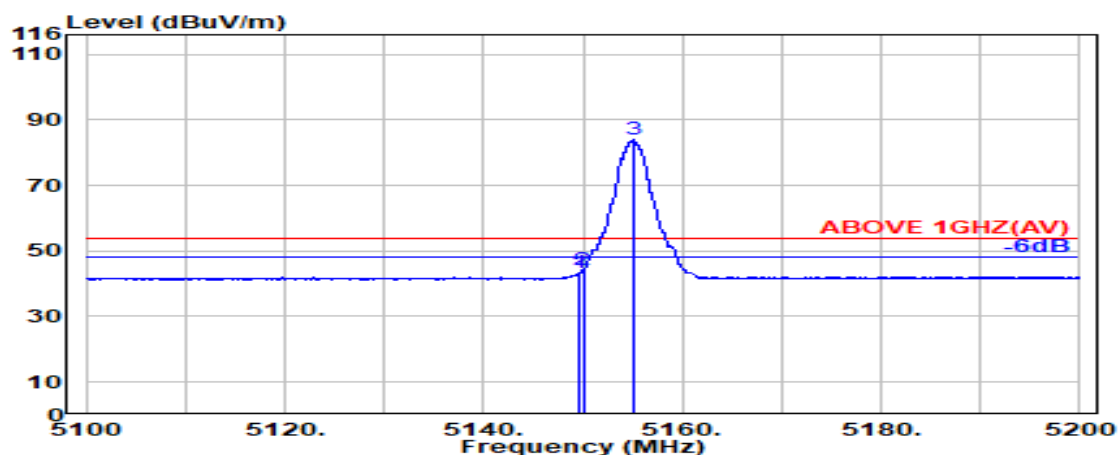
● Antenna #2

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5155MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5101.029	33.70	8.51	34.26	45.21	53.16	74.00	20.84	Peak
5150.000	33.70	8.54	34.24	43.88	51.88	74.00	22.12	Peak
@ 5155.657	33.70	8.55	34.24	81.42	89.42	---	---	Peak



Antenna at Horizontal Polarization

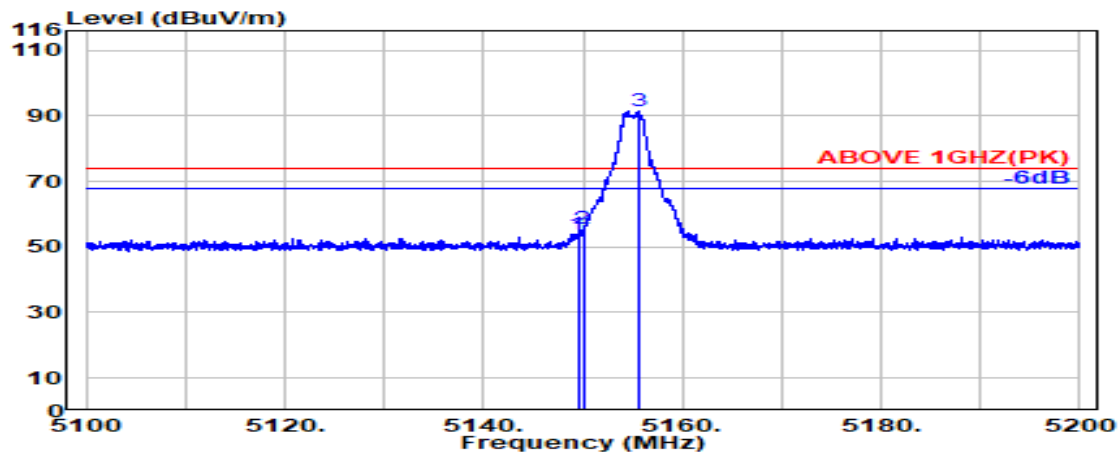
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.543	33.70	8.54	34.24	35.26	43.26	54.00	10.74	Average
5150.000	33.70	8.54	34.24	36.16	44.16	54.00	9.84	Average
@ 5155.086	33.70	8.55	34.24	75.84	83.85	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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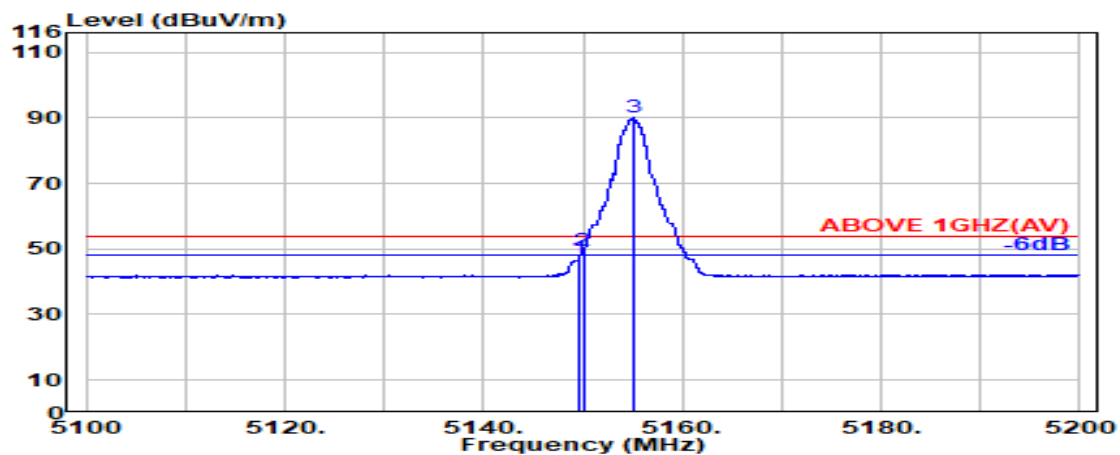
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5155MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.486	33.70	8.54	34.24	46.02	54.03	74.00	19.97	Peak
5150.000	33.70	8.54	34.24	47.59	55.60	74.00	18.40	Peak
@ 5155.600	33.70	8.55	34.24	83.48	91.49	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.600	33.70	8.54	34.24	39.17	47.17	54.00	6.83	Average
5150.000	33.70	8.54	34.24	41.28	49.28	54.00	4.72	Average
@ 5155.029	33.70	8.55	34.24	81.97	89.98	---	---	Average

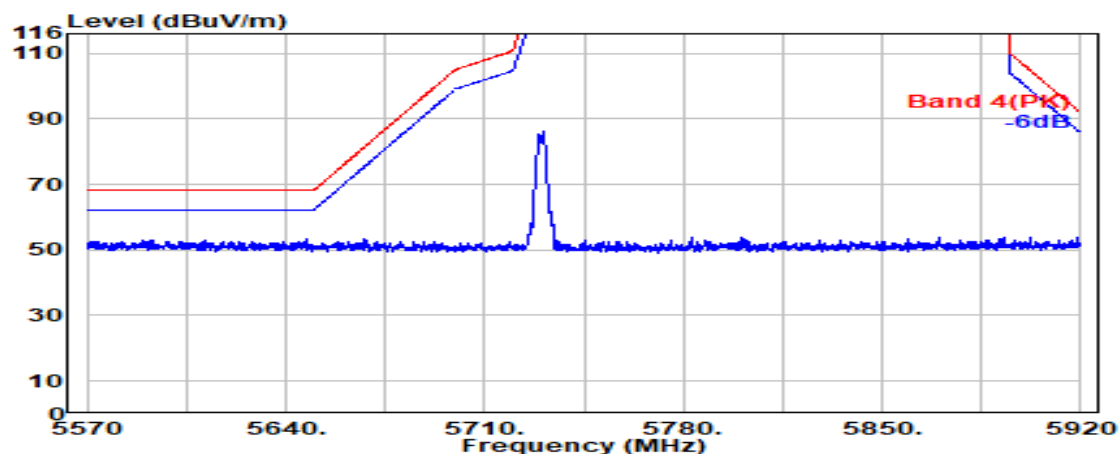
Remark: The “@” means fundamental frequency, it is ignored in this section.

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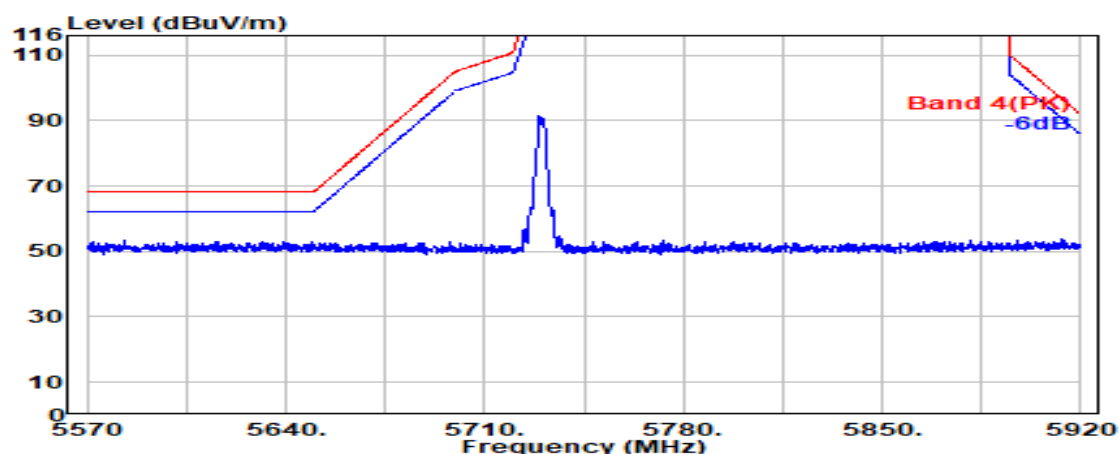
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5730MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization

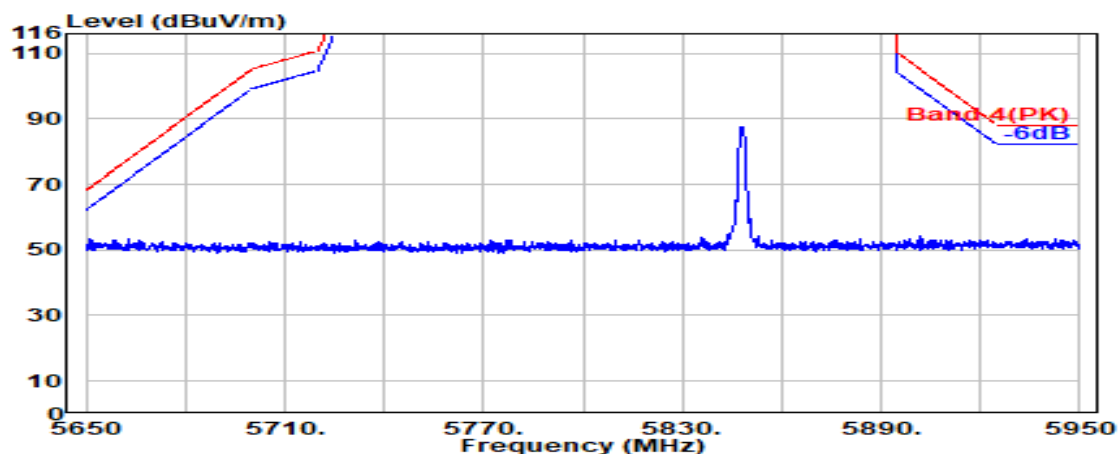


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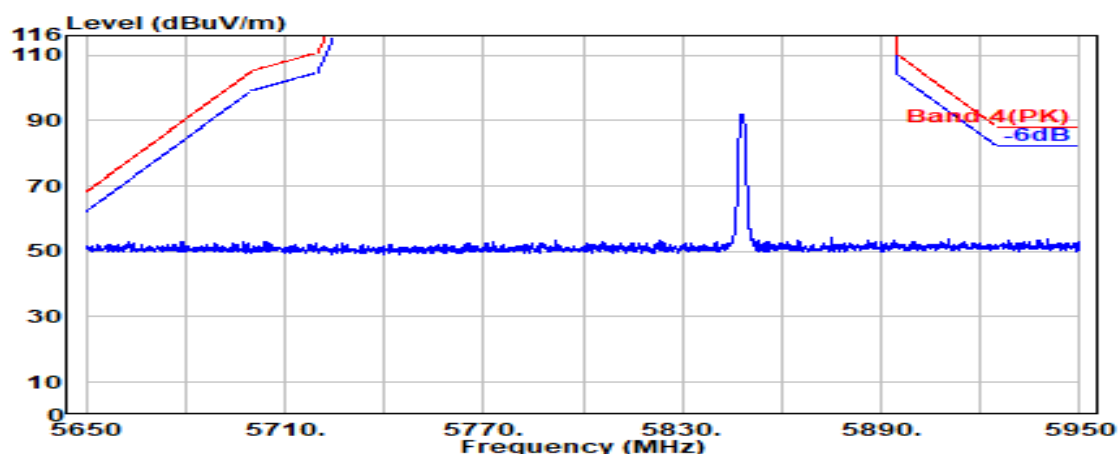
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5848MHz

Antenna at Horizontal Polarization



Antenna at Vertical Polarization



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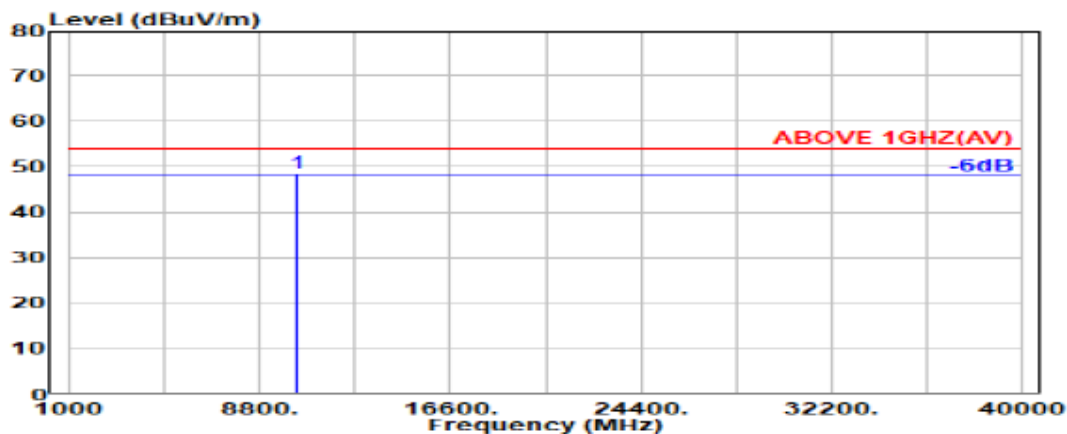
A.2.2 Emissions outside the frequency band

● Antenna #1

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5155MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10310.000	38.10	11.84	34.79	33.42	48.57	54.00	5.43	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBuV).

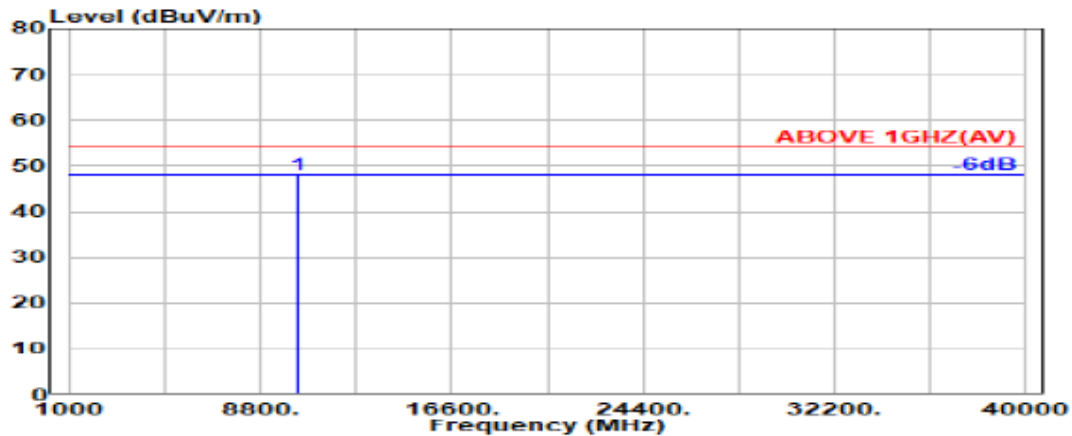
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5155MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10310.000	38.10	11.84	34.79	32.77	47.92	54.00	6.08	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

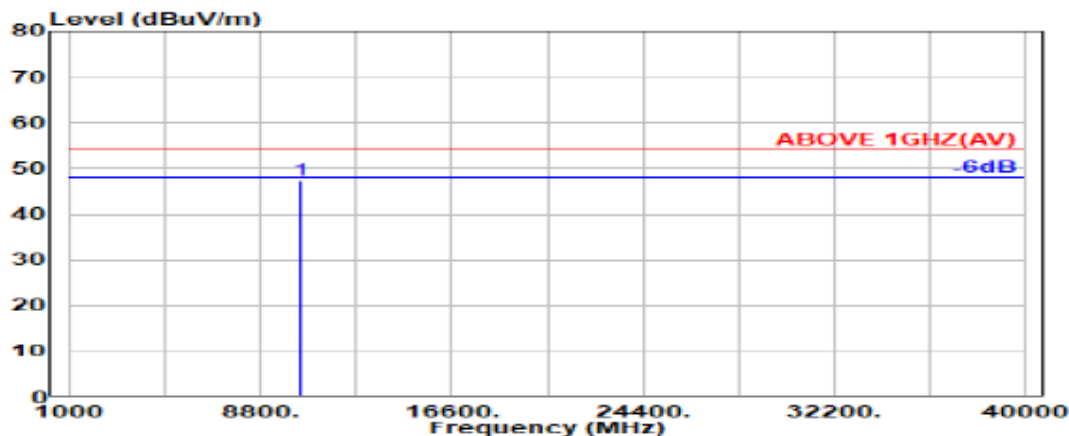
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5195MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10390.000	38.10	11.95	34.72	32.04	47.37	54.00	6.63	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5195MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20*C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10390.000	38.10	11.95	34.72	32.19	47.52	54.00	6.48	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

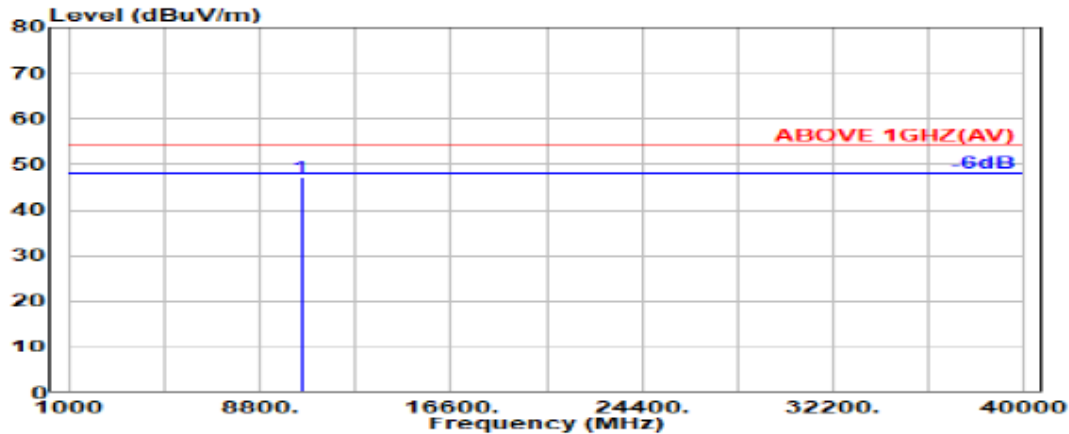
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5245MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT1
:

Item	Freq.	Antenna	Cable	Preamp	Reading	Emission	Limits	Margin	Remark
(Mark)	(MHz)	Factor	Loss	Gain	(dBuV)	Level	(dBuV/m)	(dB)	
		(dB/m)	(dB)	(dB)		(dBuV/m)			
1	10490.000	38.28	12.08	34.63	31.30	47.03	54.00	6.97	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

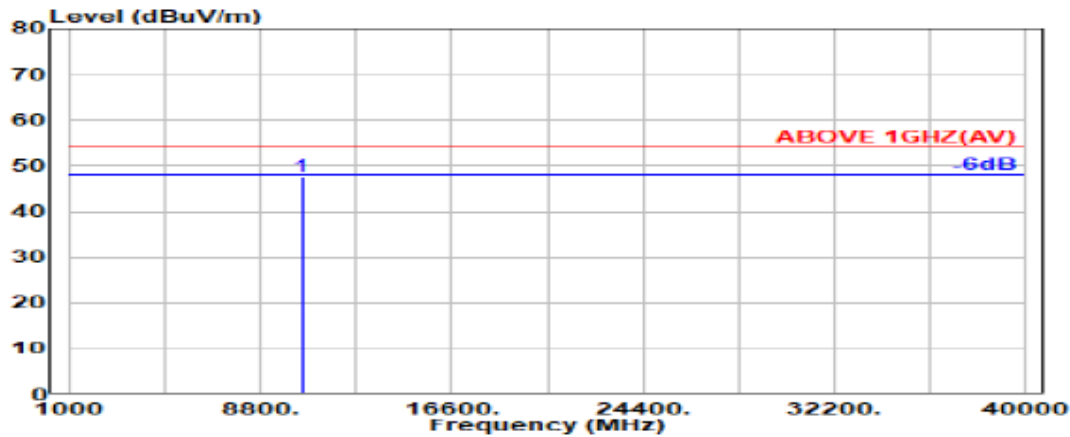
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #1	Frequency	TX 5245MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10490.000	38.28	12.08	34.63	31.86	47.60	54.00	6.40	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

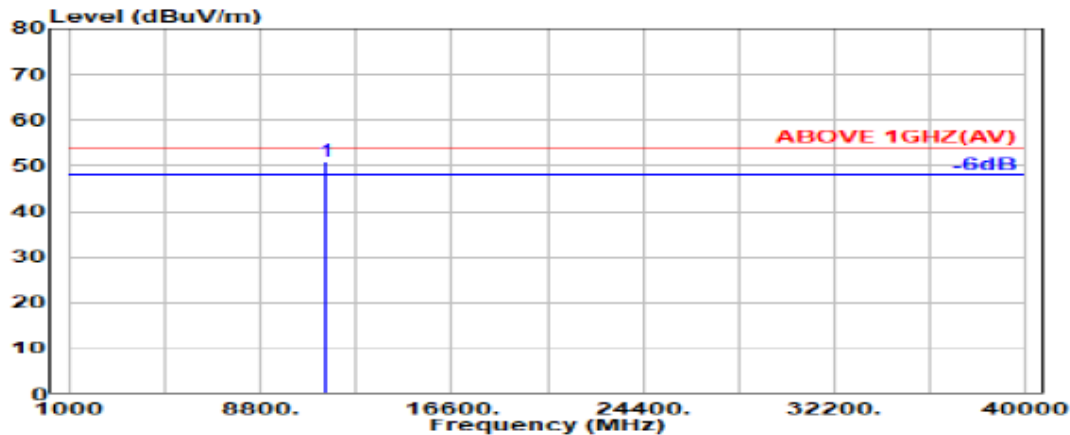
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5730MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5730MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11460.000	39.02	13.28	34.54	33.33	51.09	54.00	2.91	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

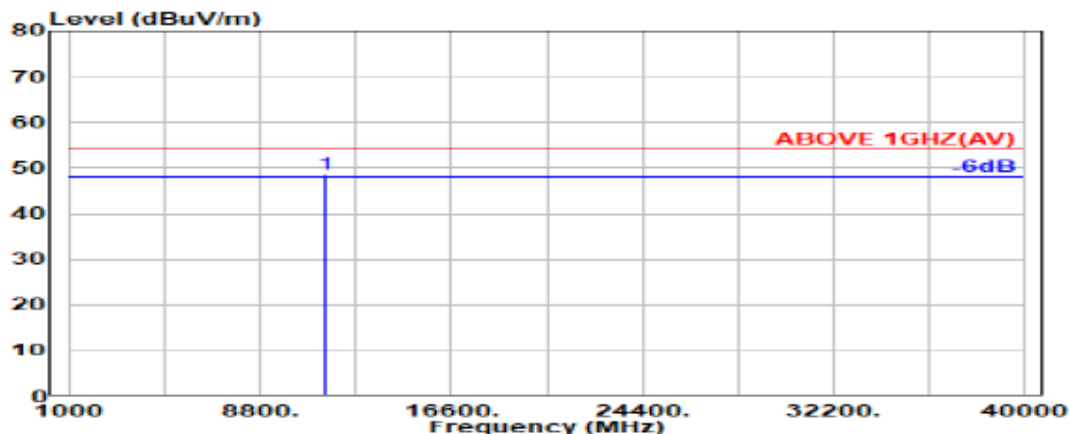
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5730MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5730MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11460.000	39.02	13.28	34.54	30.95	48.71	54.00	5.29	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

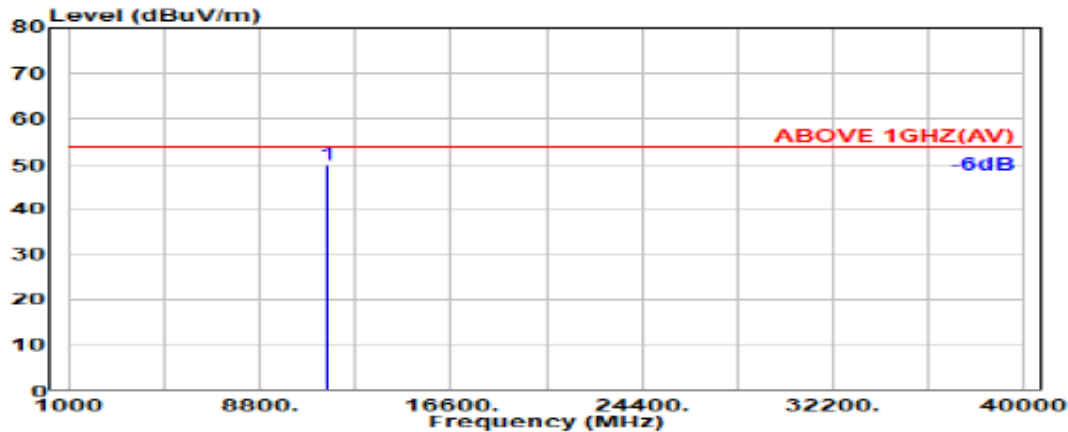
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5790MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20*C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5790MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11580.000	39.18	13.41	34.55	32.00	50.05	54.00	3.95	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

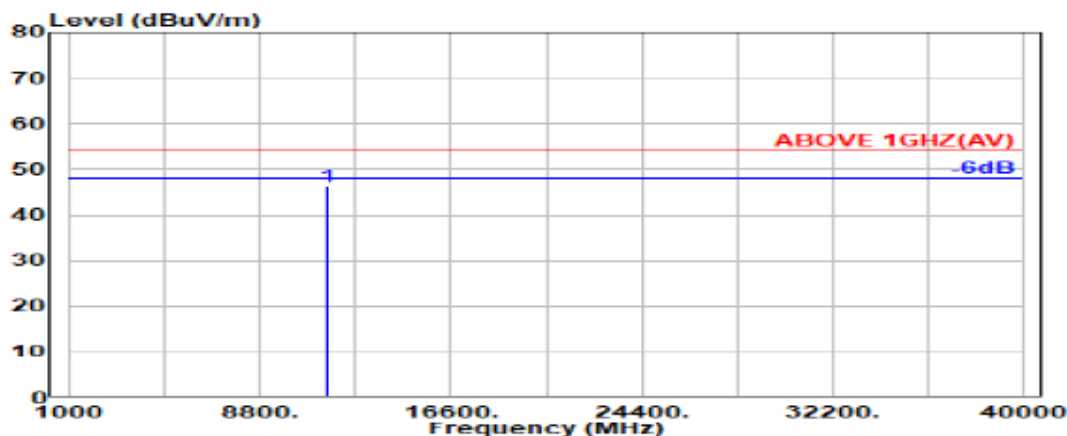
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5790MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5790MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11580.000	39.18	13.41	34.55	28.06	46.10	54.00	7.90	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB) + Reading(dBμV).

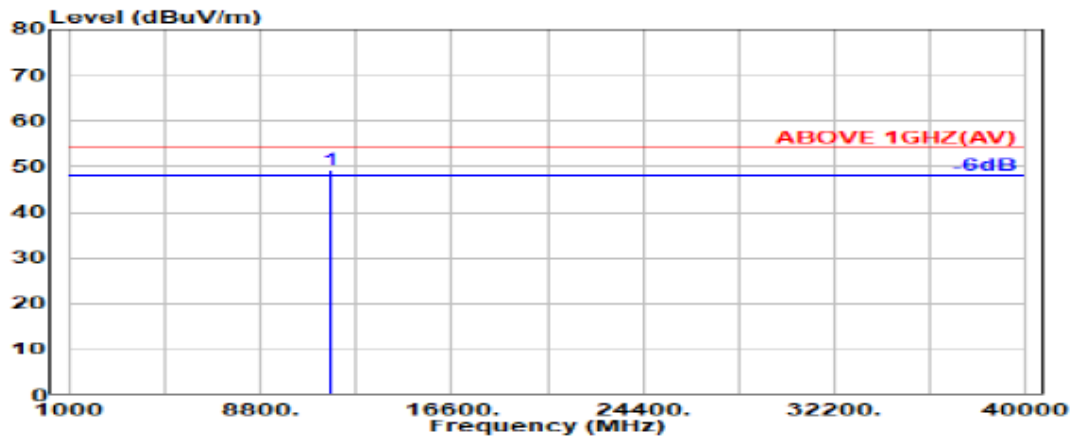
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5848MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5848MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11696.000	39.39	13.54	34.56	30.95	49.33	54.00	4.67	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

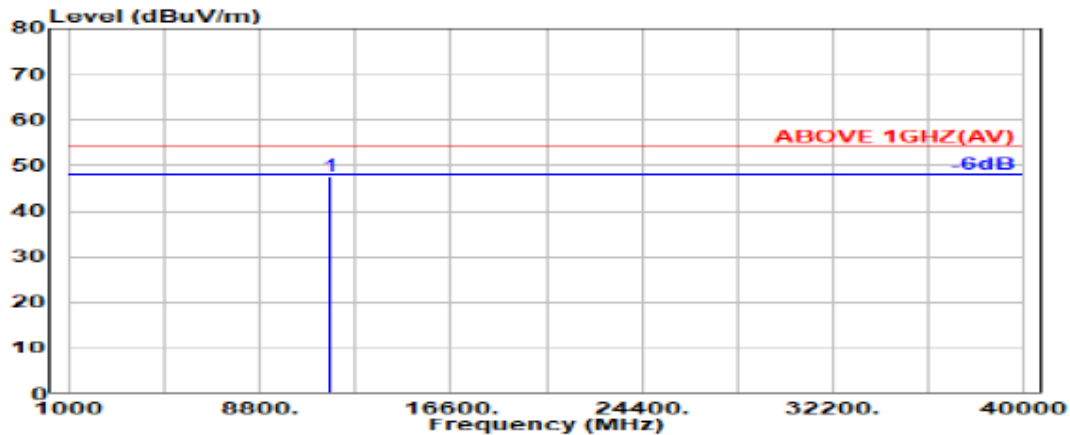
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #1	Frequency	TX 5848MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5848MHz(GFSK)
: ANT1
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11696.000	39.39	13.54	34.56	29.39	47.77	54.00	6.23	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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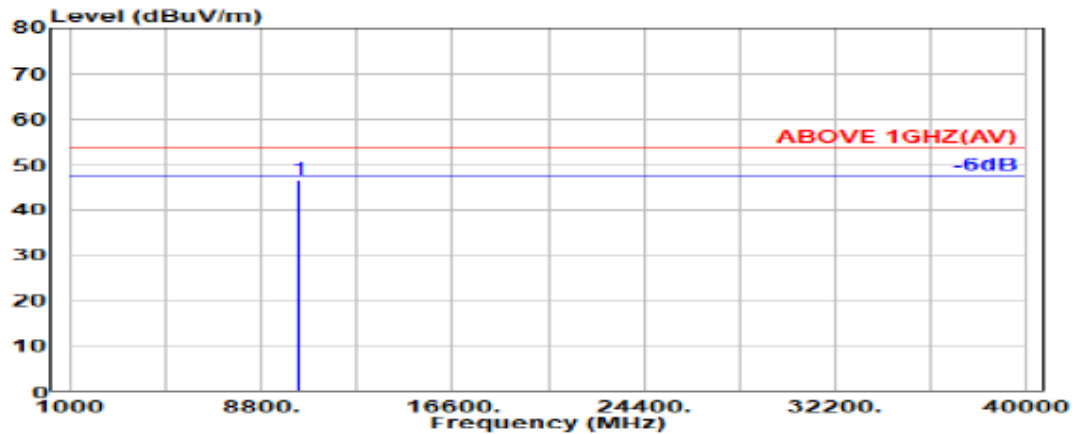
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● Antenna #2

Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5155MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10310.000	38.10	11.84	34.79	32.00	47.15	54.00	6.85	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

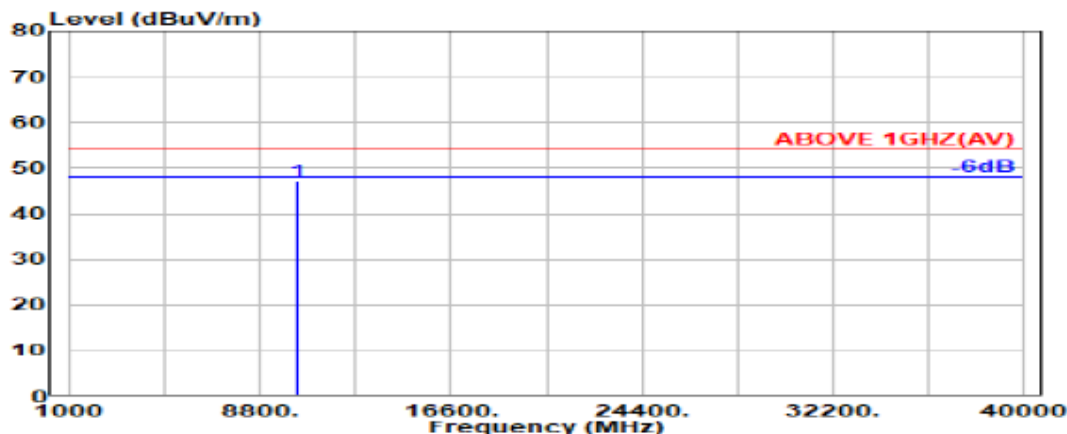
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5155MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5155MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10310.000	38.10	11.84	34.79	31.96	47.11	54.00	6.89	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

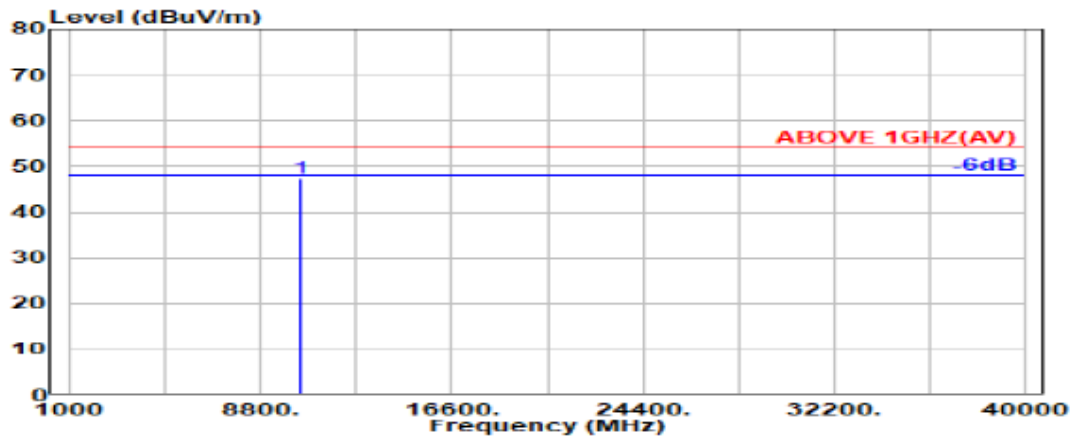
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5195MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10390.000	38.10	11.95	34.72	32.01	47.34	54.00	6.66	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

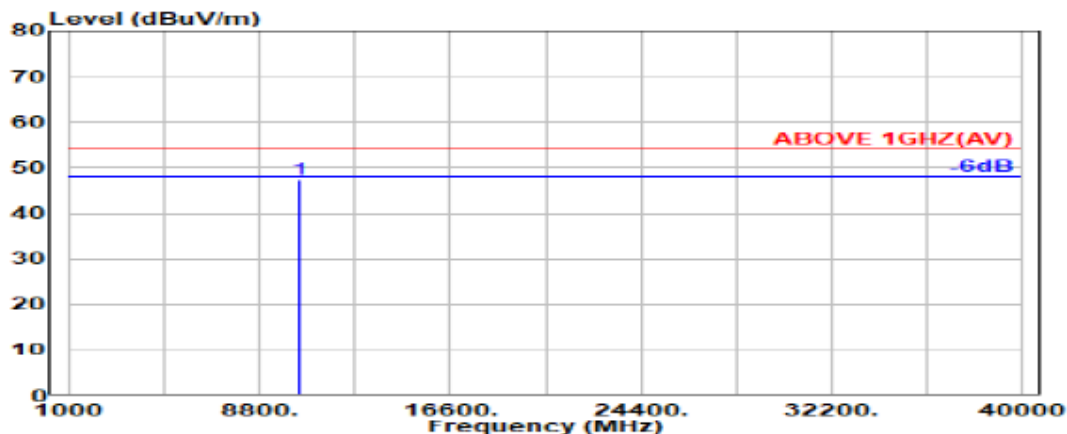
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5195MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5195MHz(GFSK)
: ANT2
:

Item	Freq.	Antenna	Cable	Preamp	Reading	Emission	Limits	Margin	Remark
(Mark)	(MHz)	Factor	Loss	Gain	(dBμV)	Level	(dBμV/m)	(dB)	
		(dB/m)	(dB)	(dB)		(dBμV/m)			
1	10390.000	38.10	11.95	34.72	31.98	47.31	54.00	6.69	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

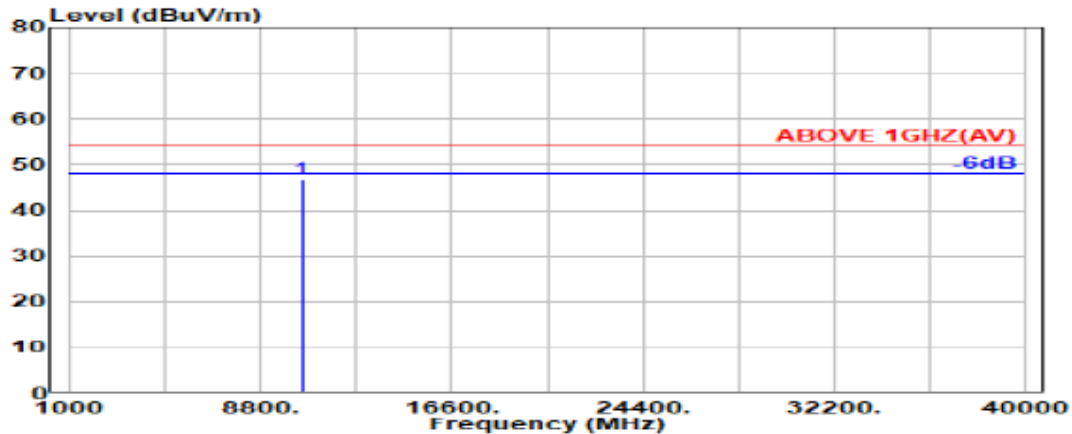
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5245MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10490.000	38.28	12.08	34.63	31.05	46.78	54.00	7.22	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

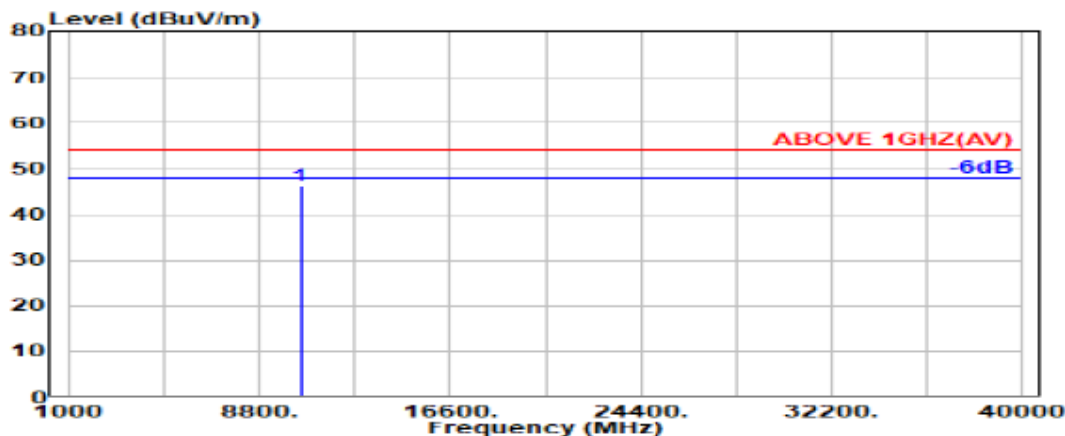
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Mode	GFSK (2 Mbps)	U-NII Band	1
Antenna	Antenna #2	Frequency	TX 5245MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5245MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	10490.000	38.28	12.08	34.63	30.48	46.22	54.00	7.78	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5730MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5730MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11460.000	39.02	13.28	34.54	29.53	47.29	54.00	6.71	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5730MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5730MHz(GFSK)
: ANT2
:

Item	Freq.	Antenna	Cable	Preamp	Reading	Emission	Limits	Margin	Remark
(Mark)	(MHz)	Factor	Loss	Gain	(dBμV)	Level	(dBμV/m)	(dB)	
		(dB/m)	(dB)	(dB)		(dBμV/m)			
1	11460.000	39.02	13.28	34.54	30.68	48.44	54.00	5.56	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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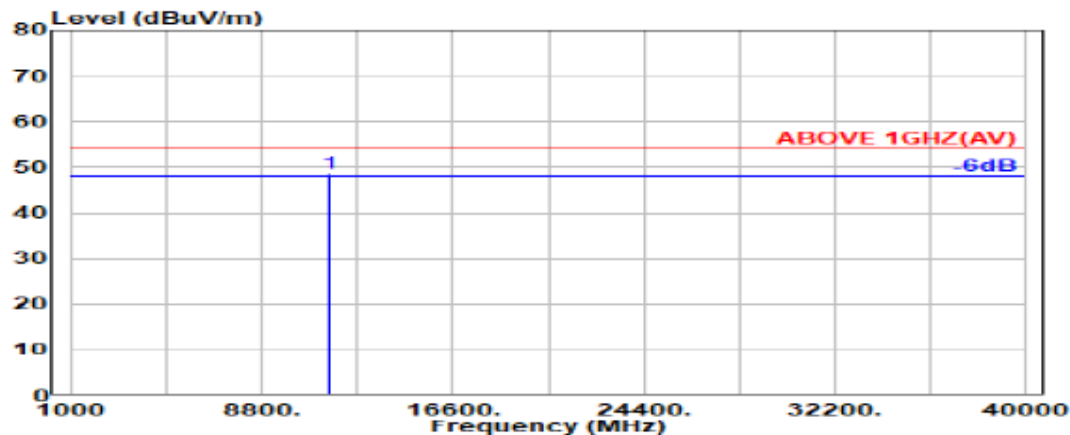
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5790MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5790MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11580.000	39.18	13.41	34.55	30.50	48.54	54.00	5.46	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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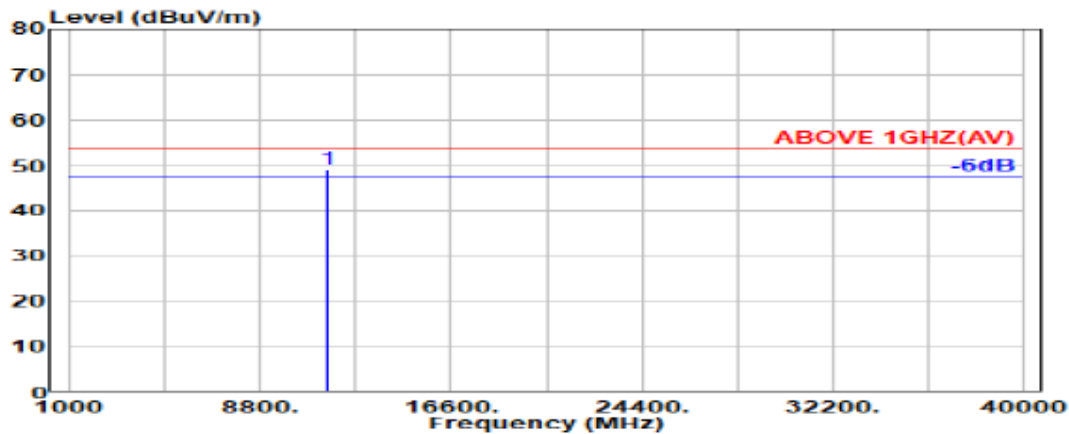
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5790MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5790MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11580.000	39.18	13.41	34.55	31.35	49.40	54.00	4.60	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

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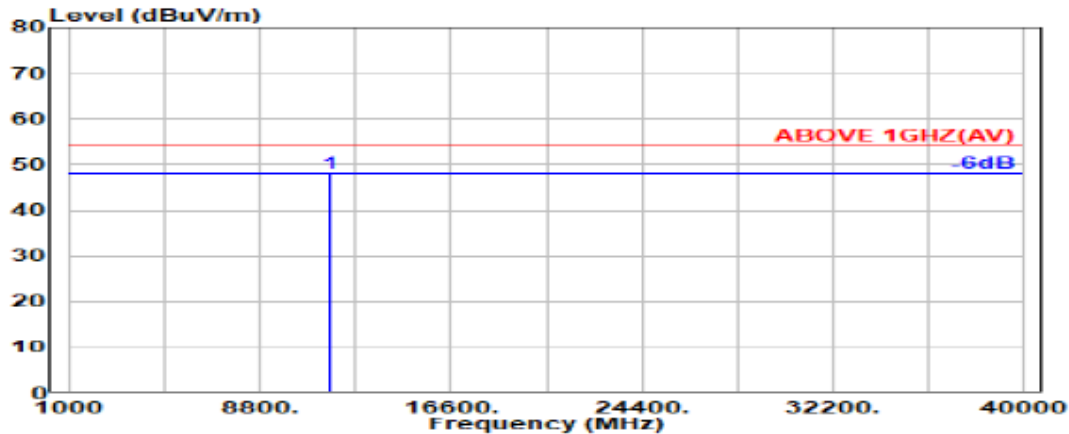
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Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5848MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Horizontal
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5848MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11696.000	39.39	13.54	34.56	29.75	48.12	54.00	5.88	Peak

Remark: 1. Emission Level(dBuV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBuV).

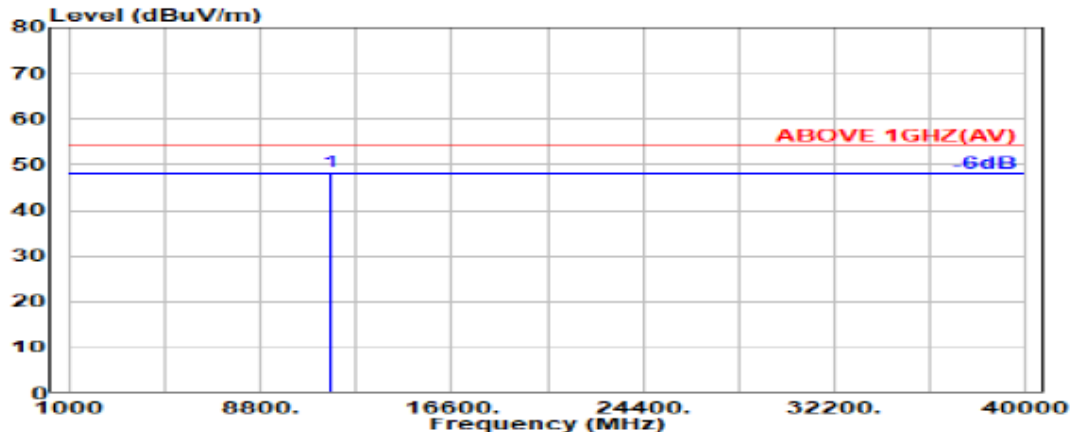
Audix Technology Corp.
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Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	GFSK (2 Mbps)	U-NII Band	3
Antenna	Antenna #2	Frequency	TX 5848MHz

Identify 1 – 40 GHz spurious emissions:

Date : 2024-12-16



Site No. : No.1 3m Semi Anechoic Chamber
Instrument 1 : Spectrum N9010B(198)
Instrument 2 : 3115 (775)|RE-14|8449B (678)
Instrument 3 : AH-840 (092)|RE-30|83051A (113)|
Distance/Limit : 3m/ABOVE 1GHZ(AV) Ant. Pol : Vertical
Environment : 20°C / 48% Test Rating : DC 3.3V
EUT Model : WL1BKT22 Engineer : Hua
Test Memo : Tx 5848MHz(GFSK)
: ANT2
:

Item (Mark)	Freq. (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	11696.000	39.39	13.54	34.56	29.89	48.27	54.00	5.73	Peak

Remark: 1. Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Gain(dB)
+ Reading(dBμV).

A.2.3 Emissions in Non-restricted Frequency Bands

Pursuant to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 that emission levels below the 15.209 general radiated emissions limits is not required.

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A.3 MAXIMUM OUTPUT POWER

Test Date	2024/11/14	Temp./Hum.	24°C/55%
Test Voltage	DC 3.3V	Tested By	Hua Wu

A.3.1 Average Output Power

● Antenna #1

Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power (dBm)	Duty Cycle Factor 10log(1/X)	Average Output Power		Limit
					(dBm)	(W)	
GFSK (2 Mbps)	1	5155	0.97	3.565	4.54	0.0028	< 250 mW (24 dBm)
		5195	0.52	3.565	4.09	0.0026	
		5245	0.07	3.565	3.64	0.0023	
	3	5730	0.75	3.565	4.32	0.0027	< 1 W (30 dBm)
		5790	1.63	3.565	5.20	0.0033	
		5848	2.25	3.565	5.82	0.0038	

Note: The results have been included cable loss.

● Antenna #2

Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power (dBm)	Duty Cycle Factor 10log(1/X)	Average Output Power		Limit
					(dBm)	(W)	
GFSK (2 Mbps)	1	5155	2.35	3.565	5.92	0.0039	< 250 mW (24 dBm)
		5195	1.99	3.565	5.56	0.0036	
		5245	1.58	3.565	5.15	0.0033	
	3	5730	0.72	3.565	4.29	0.0027	< 1 W (30 dBm)
		5790	1.07	3.565	4.64	0.0029	
		5848	1.39	3.565	4.96	0.0031	

Note: The results have been included cable loss.

A.3.2 Original Power For reference

● Antenna #1

Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power (dBm)	Duty Cycle Factor 10log(1/X)	Average Output Power		Limit
					(dBm)	(W)	
GFSK (2 Mbps)	1	5155	6.81	N/A	6.81	0.0048	< 250 mW (24 dBm)
		5190	7.18	N/A	7.18	0.0052	
		5228	6.85	N/A	6.85	0.0048	
	3	5731	7.04	N/A	7.04	0.0051	< 1 W (30 dBm)
		5779	7.05	N/A	7.05	0.0051	
		5828	6.56	N/A	6.56	0.0045	

Note: The results have been included cable loss.

● Antenna #2

Mode	U-NII Band	Centre Frequency (MHz)	Average Output Power (dBm)	Duty Cycle Factor 10log(1/X)	Average Output Power		Limit
					(dBm)	(W)	
GFSK (2 Mbps)	1	5155	7.35	N/A	7.35	0.0054	< 250 mW (24 dBm)
		5190	7.65	N/A	7.65	0.0058	
		5228	6.92	N/A	6.92	0.0049	
	3	5731	7.39	N/A	7.39	0.0055	< 1 W (30 dBm)
		5779	6.83	N/A	6.83	0.0048	
		5828	6.34	N/A	6.34	0.0043	

Note: The results have been included cable loss.