



Radio Test Report

Report No.: STS2604245W01

Issued for

Allable International.,Ltd

66 Hannam-ro 137beon-gil, Daedeok-gu, Daejeon, Republic
of Korea

Product Name: GOLF LAUNCH MONITOR

Brand Name: GOLFBUDDY

Model Name: GB SHOT MATE

Series Model(s) N/A

FCC ID: 2BV56-GBSHOTMATE

Test Standards: FCC Part 15.245

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT****Applicant's Name**..... : Allable International.,Ltd

Address..... : 66 Hannam-ro 137beon-gil, Daedeok-gu, Daejeon, Republic of, South Korea

Manufacture's Name..... : TIANJIN LOOKOUT PHOTOELECTRIC TECHNOLOGY CO.,LTD

Address..... : Building 18-1, Ligang Park, Shuanggang Town Industrial Zone, Jinnan District, Tianjin City, 300350, China

Product Description

Product Name : GOLF LAUNCH MONITOR

Brand Name : GOLFBUDDY

Model Name..... : GB SHOT MATE

Series Model : N/A

Test Standards..... : FCC Part 15.245Test Procedure : ANSI C63.4-2014+C63.4a-2017
ANSI C63.10-2020+Cor 1-2023

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test..... :

Date of receipt of test item..... : 30 Apr. 2026

Date of performance of tests ... : 30 Apr. 2026~19 May 2026

Date of Issue : 20 May 2026

Test Result : **Pass**

Testing Engineer :

(Rain Liu)

Technical Manager :

(Skylar Li)

Authorized Signatory :

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	20 May 2026	STS2604245W01	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.245		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.245(b)	Field strength of emissions (wanted signal)	PASS
2.1049	Occupied Bandwidth	PASS
15.209(a) 15.245(b)(1)(2)(3)	Field Strength of Spurious Radiation	PASS
15.203	Antenna requirement	PASS

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.4-2014+C63.4a-2017 and ANSI C63.10-2020+Cor 1-2023



1.1 TEST FACILITY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power	$\pm 0.751\text{dB}$
2	Occupied bandwidth	$\pm 3.6\%$
3	All emissions, radiated below 1GHz	$\pm 2.52\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.48\text{dB}$
5	All emissions, radiated >18G	$\pm 4.18\text{dB}$
6	Duty Cycle	$\pm 3.2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	GOLF LAUNCH MONITOR
Brand Name	GOLFBUDDY
Model Name	GB SHOT MATE
Series Model(s)	N/A
Model Difference	N/A
Operation Frequency	24.075– 24.175 GHz
Modulation Type	CW
Antenna Type	Integrated Patch Antenna
Antenna Gain(dBi)	0
Test Channel	Please refer to the Note 3.
Power Rating	Input: 5V $\overline{=}$ 0.5A Battery: 3.7V 750mAh 2.775Wh
Battery	N/A
Hardware version	V1.0
Software version	V1.0

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	InnoSenT	SMR-333	Integrated Patch Antenna	N/A	0	Antenna

The EUT antenna is External Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

3

Channel List	
Channel	Frequency (GHz)
01	24.075-24.175

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above listed frequency for testing.

2.2 EUT OPERATION MODE

The EUT has been tested under typical operating condition and The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

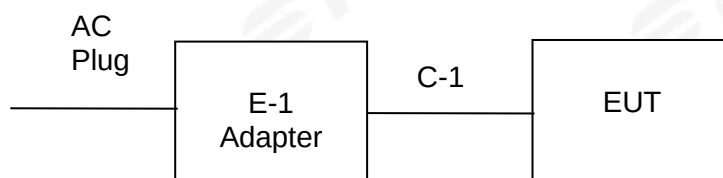
Test Mode	Description
Mode1	TX mode
Mode2	Charging mode

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Adapter	ZTC	NB-A515A	N/A	E-1
C-1	USB Cable	ZTC	NB-A515A	N/A	C-1

Support units

Item	Equipment	Mfr/Brand	Length	Note	Item
C-1	Shielded	NO	150cm	N/A	C-1

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.6 TEST EQUIPMENT

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
966 chamber	CHENYU	966 Room	966	2025.08.13	2028.08.12
Temperature & Humidity	TORIE	TP502V4-P	6700000124280	2025.10.13	2026.10.12
Pre-Amplifier (0.1M-3GHz)	EM	EM330	60665	2025.02.22	2026.02.21
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier (18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.02.04	2027.02.03
Active loop Antenna (9KHz-30MHz)	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna (30-1000MHz)	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA 9120D	2014	2025.09.27	2027.09.26
HornAntenna (18G-40GHz)	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Horn Antenna (40G-60GHz)	A-INFO	LB-19-25-A	2020039000053	2024.12.25	2027.12.24
Horn Antenna (50G-75GHz)	A-INFO	LB-15-25-A	2020028000183	2024.12.25	2027.12.24
Horn Antenna (75G-110GHz)	A-INFO	LB-10-25-A	2020017000101	2024.12.25	2027.12.24
Mixer(40-60GHz)	AT-Microwave	AT-SAX8-4060	U4NO01	2024.12.25	2027.12.24
Mixer(50-75GHz)	AT-Microwave	AT-SAXB-5075	V4NO01	2024.12.25	2027.12.24
Mixer(75-110GHz)	AT-Microwave	AT-SAX8-75110	S5JA01	2024.12.25	2027.12.24
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
RF Coaxial Cable	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
Signal Analyzer	Keysight	N9020A	MY52440124	2026.02.04	2027.02.03
Positioning Controller	MF	MF-7802	MF-780208587	2025.09.26	2026.09.25
signal generator	Keysight	E8257D	MY58040082	2026.02.04	2027.02.03
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	2025.09.26	2026.09.25
Switch Control Box	SKET	SU319E	51409043	2025.09.26	2026.09.25
Antenna Mast	MF	MFA-440H	1308023	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENG FENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-MMW	Ver.STSLAB-MMW1.0			
Conduction Test equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limttr	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24



CE Cable	EASTSHEEP	C01	010057	2025.09.25	2026.09.24
Temperature & Humidity	TORIE	TP502V4-P	6700000124211	2025.10.09	2026.10.08
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

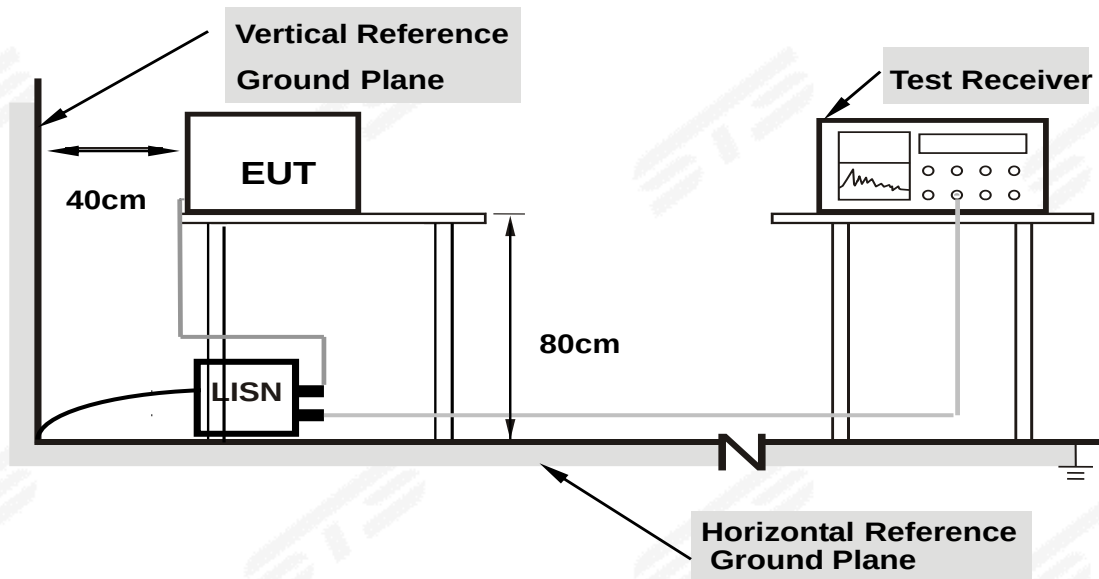
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.5 TEST RESULT

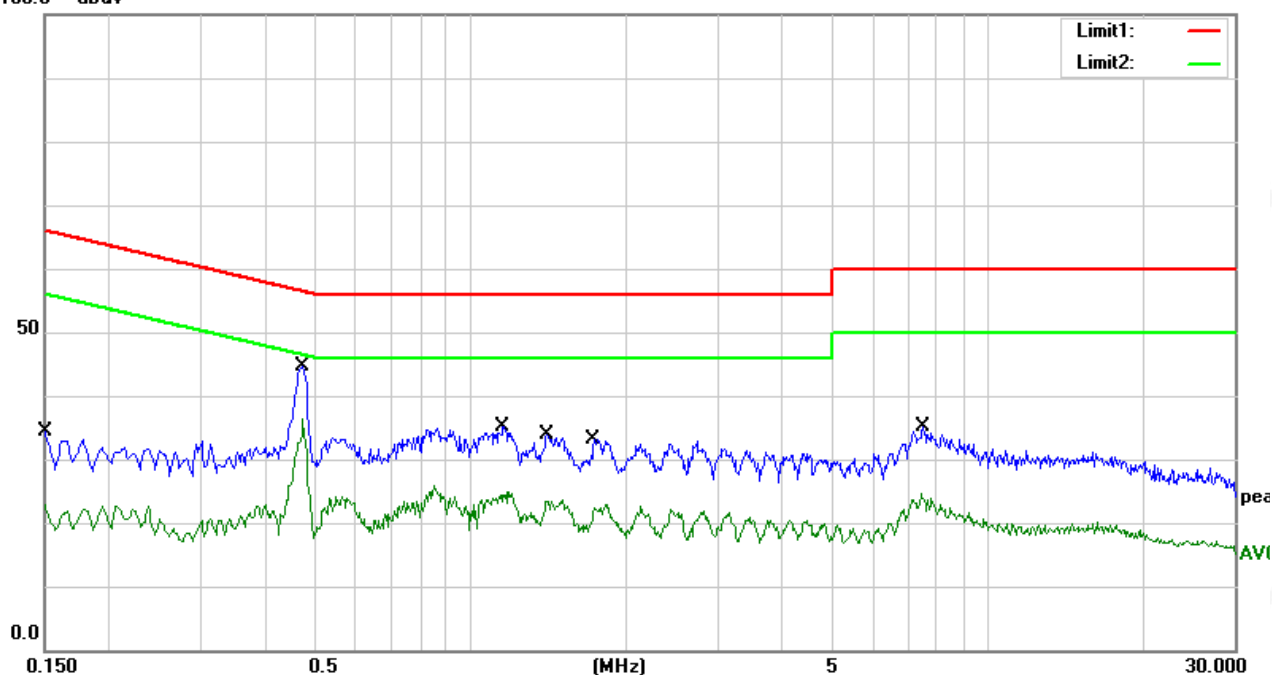
Temperature:	25.1 °C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	15.03	19.38	34.41	66.00	-31.59	QP
2	0.1500	3.54	19.38	22.92	56.00	-33.08	AVG
3	0.4740	25.33	19.39	44.72	56.44	-11.72	QP
4	0.4740	17.10	19.39	36.49	46.44	-9.95	AVG
5	1.1540	15.89	19.35	35.24	56.00	-20.76	QP
6	1.1540	5.45	19.35	24.80	46.00	-21.20	AVG
7	1.4060	14.63	19.35	33.98	56.00	-22.02	QP
8	1.4060	4.24	19.35	23.59	46.00	-22.41	AVG
9	1.7420	13.72	19.35	33.07	56.00	-22.93	QP
10	1.7420	3.49	19.35	22.84	46.00	-23.16	AVG
11	7.4980	15.62	19.48	35.10	60.00	-24.90	QP
12	7.4980	5.05	19.48	24.53	50.00	-25.47	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV





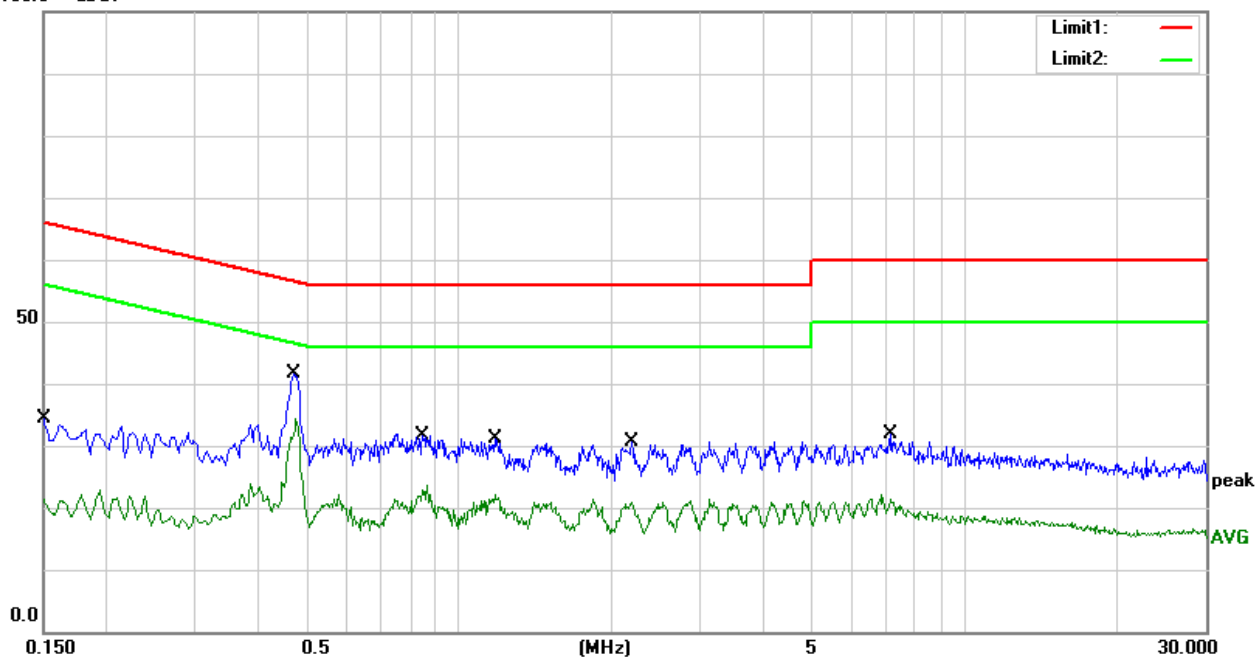
Temperature:	25.1 °C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	15.07	19.38	34.45	66.00	-31.55	QP
2	0.1500	1.97	19.38	21.35	56.00	-34.65	AVG
3	0.4700	22.32	19.39	41.71	56.51	-14.80	QP
4	0.4700	14.87	19.39	34.26	46.51	-12.25	AVG
5	0.8460	12.38	19.36	31.74	56.00	-24.26	QP
6	0.8460	4.15	19.36	23.51	46.00	-22.49	AVG
7	1.1780	11.81	19.35	31.16	56.00	-24.84	QP
8	1.1780	2.73	19.35	22.08	46.00	-23.92	AVG
9	2.1940	11.22	19.36	30.58	56.00	-25.42	QP
10	2.1940	1.64	19.36	21.00	46.00	-25.00	AVG
11	7.1580	12.33	19.46	31.79	60.00	-28.21	QP
12	7.1580	1.91	19.46	21.37	50.00	-28.63	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor = LISN factor + Cable loss + Limiter (10dB)

100.0 dBuV





4. Field Strength of Emissions

4.1 LIMIT

(a) According to § 15.245(b) and RSS-210 F.1 (a): The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902-928	500	1.6
2435-2465	500	1.6
5785-5815	500	1.6
10500-10550	2500	25.0
24075-24175	2500	25.0

(b) Regardless of the limits shown in the above table, harmonic emissions in the restricted bands below 17.7GHz, as specified in § 15.205 and RSS-Gen, shall not exceed the field strength limits shown in § 15.209 and RSS-Gen. Harmonic emissions in the restricted bands at and above 17.7 GHz shall not exceed the following field strength limits:

(i) For the second and third harmonics of field disturbance sensors operating in the 24075-24175 MHzband and for other field disturbance sensors designed for use only within a building or to open building doors, 25.0 mV/m.

(ii) For all other field disturbance sensors, 7.5 mV/m.

(iii) Field disturbance sensors designed to be used in motor vehicles or aircraft must include features to prevent continuous operation unless their emissions in the restricted bands, other than the second and third harmonics from devices operating in the 24075-24175 MHz band, fully comply with the limits given in § 15.209 and RSS-Gen. Continuous operation of field disturbance sensors designed to be used in farm equipment, vehicles such as fork lifts that are intended primarily for use indoors or for very specialized operations, or railroad locomotives, railroad cars and other equipment which travels on fixed tracks is permitted. A field disturbance sensor will be considered not to be operating in a continuous mode if its operation is limited to specific activities of limited duration (e.g., putting a vehicle into reverse gear, activating a turn signal, etc.).

Frequencies (MHz)	Field Strength (micorvolts/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
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

(c) Field strength limits are specified at a distance of 3 meters.

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

(e) The emission limits shown above are based on measurement instrumentation employing an average detector. The provisions in § 15.35 and RSS-Gen for limiting peak emissions apply.

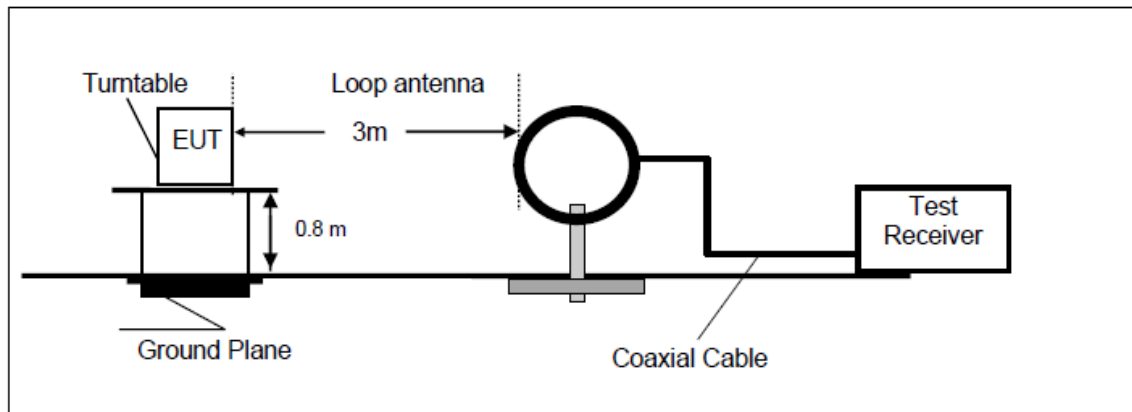


4.2 TEST PROCEDURE

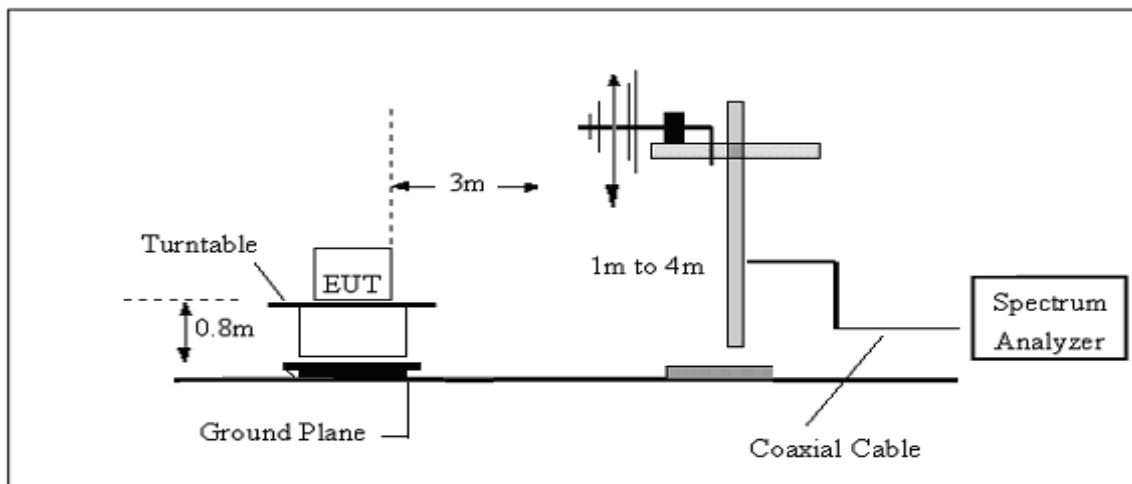
- a. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Below 1GHz)
- b. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Above 1GHz)
- c. The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform (Below 1GHz)
- f. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform. (Above 1GHz)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

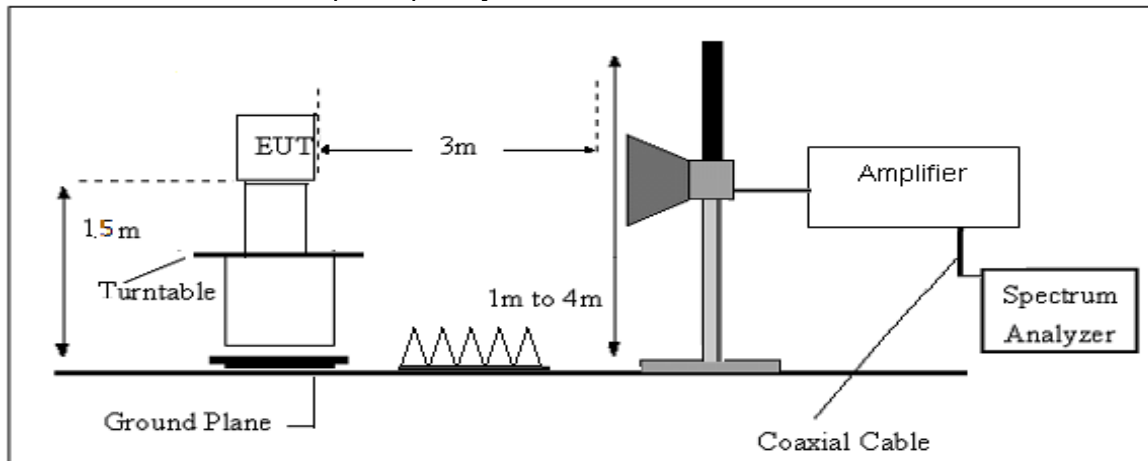
(A) Radiated Emission Test-Up Frequency 9 KHz – 30MHz



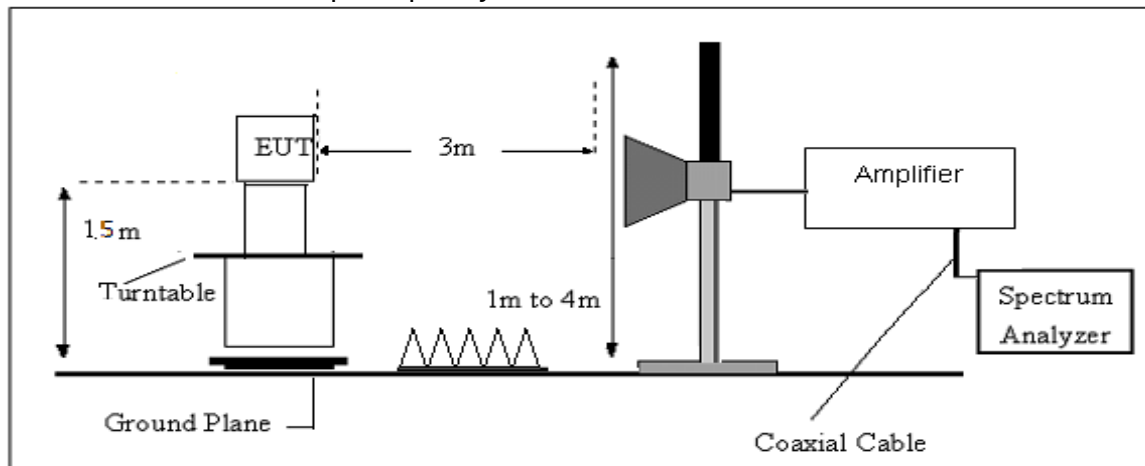
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



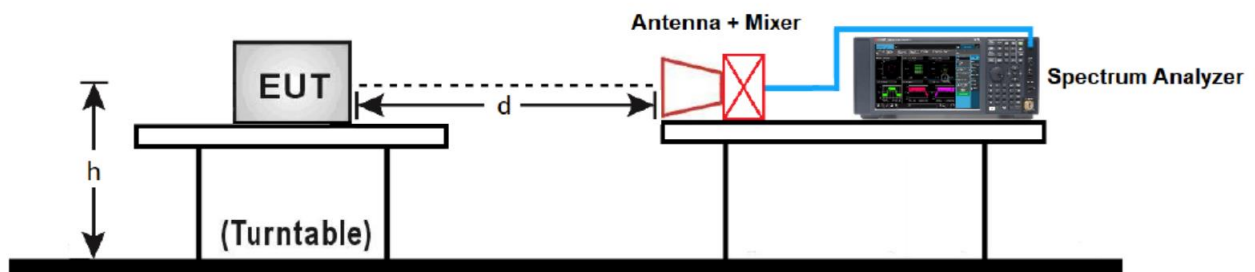
(C) Radiated Emission Test-Up Frequency 1GHz~18GHz



(D) Radiated Emission Test-Up Frequency 18GHz~40GHz



(E) Radiated Emission Test-Up Frequency Above 40GHz



4.4 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

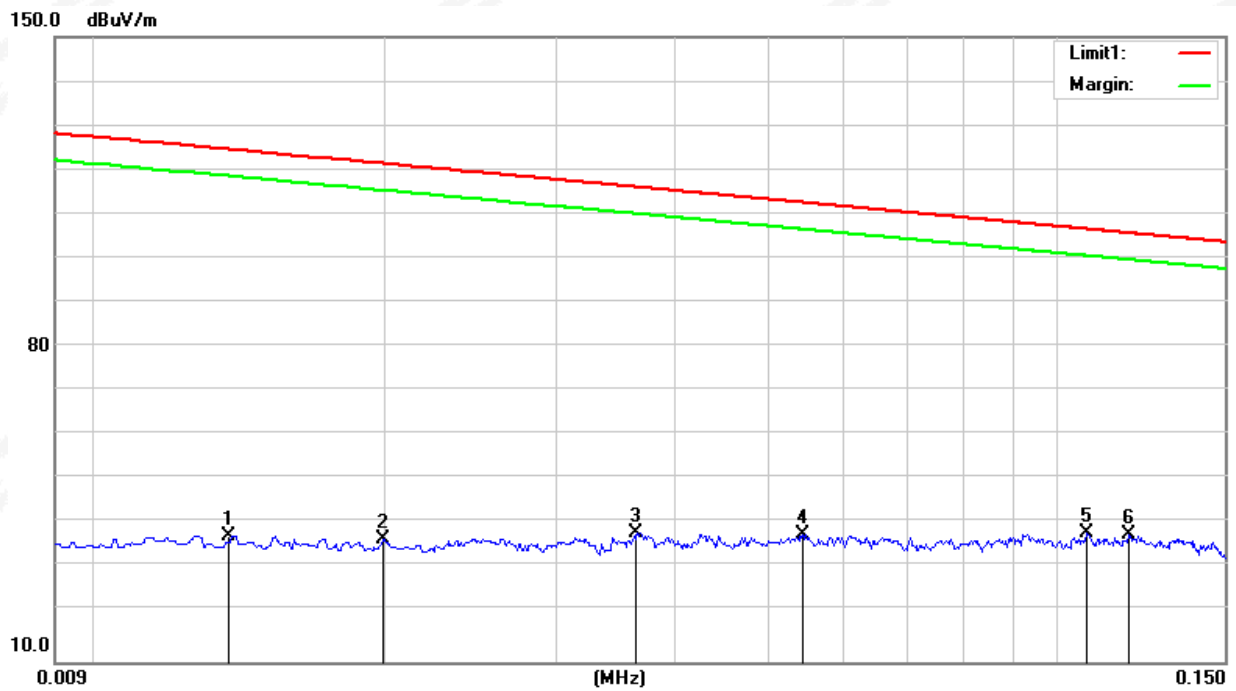
For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = AF + CL - AG$$

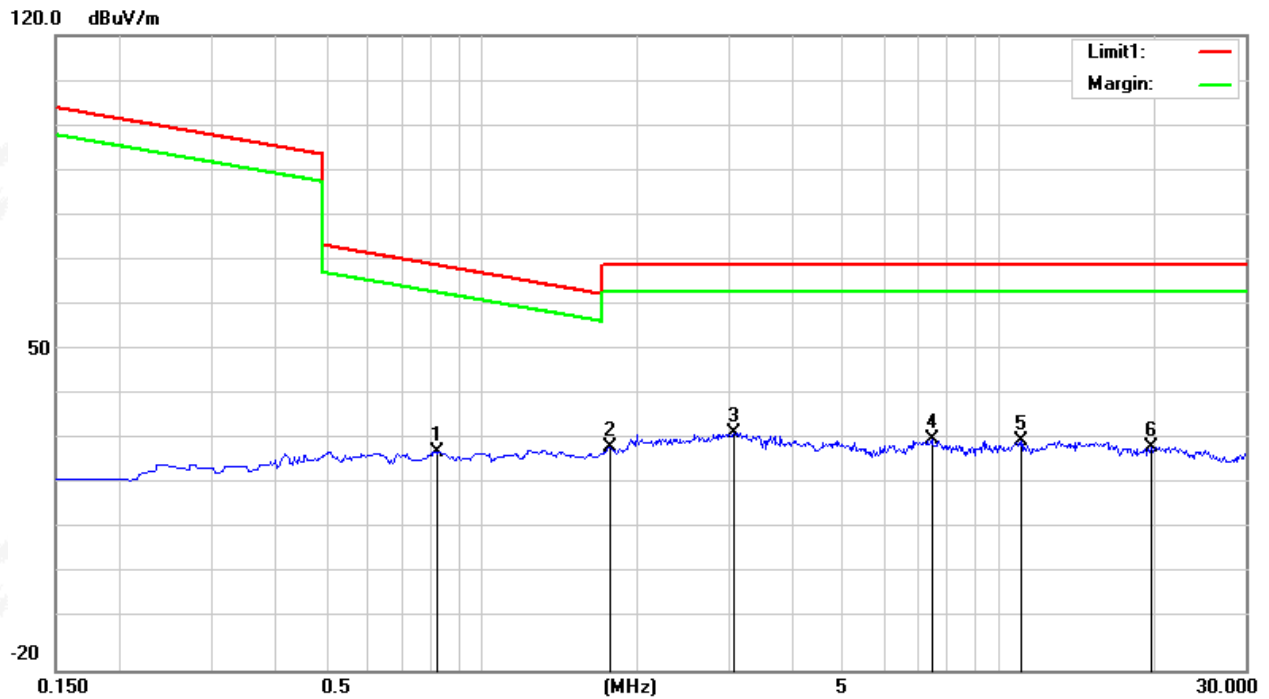
4.5 TEST RESULTS

Coxial
RSE-9KHz-150KHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0137	18.48	19.64	38.12	124.87	-86.75	peak
2	0.0198	17.43	20.09	37.52	121.67	-84.15	peak
3	0.0364	19.14	19.77	38.91	116.38	-77.47	peak
4	0.0543	19.04	19.38	38.42	112.91	-74.49	peak
5	0.1076	21.12	17.58	38.70	106.97	-68.27	peak
6	0.1193	20.93	17.56	38.49	106.07	-67.58	peak

RSE-150KHz-30MHz



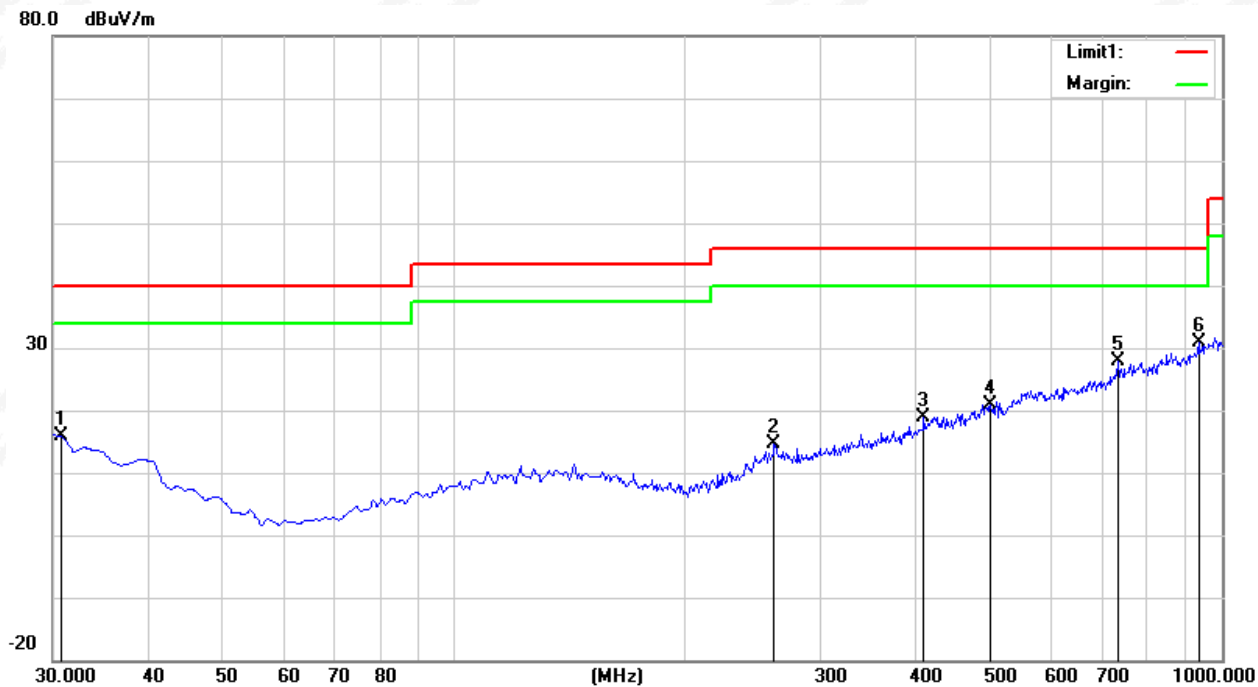
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.8215	7.98	20.27	28.25	69.31	-41.06	peak
2	1.7716	8.99	20.35	29.34	69.50	-40.16	peak
3	3.0752	12.19	20.12	32.31	69.50	-37.19	peak
4	7.4333	10.47	20.35	30.82	69.50	-38.68	peak
5	11.0751	10.18	20.44	30.62	69.50	-38.88	peak
6	19.7911	6.62	22.45	29.07	69.50	-40.43	peak

Note:

Both the Coaxial and Coplanar are tested, only the worst mode in this report.

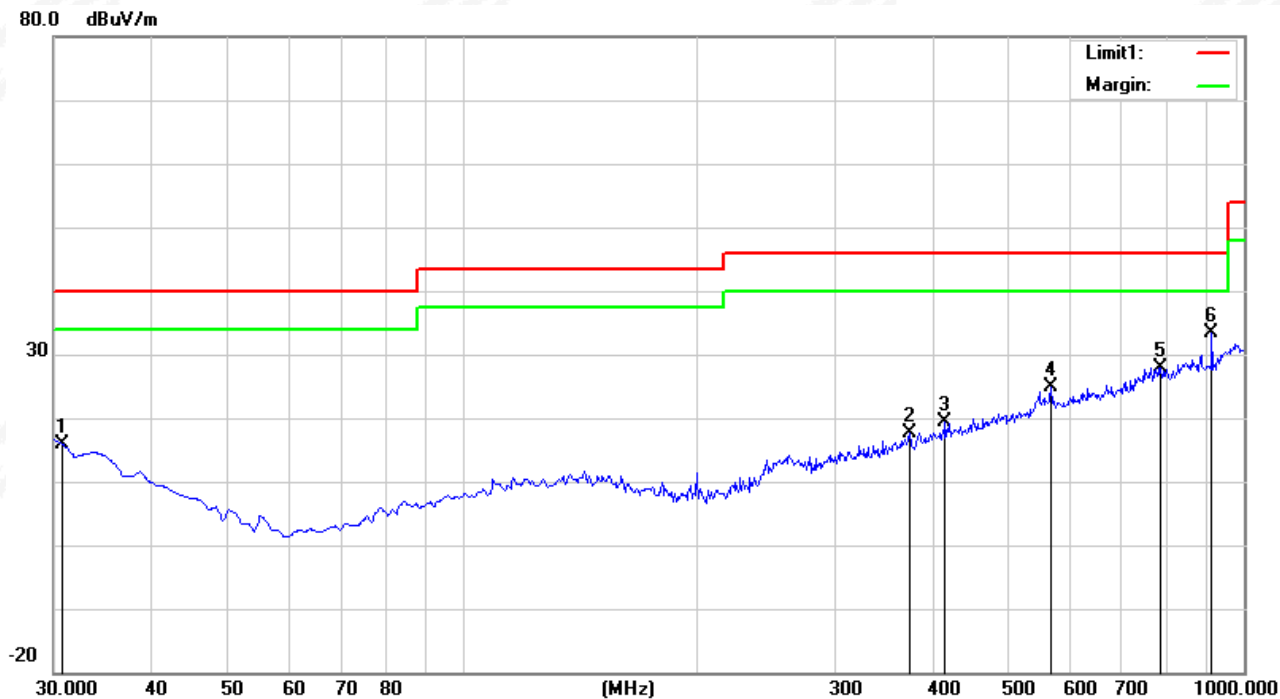
30MHz – 1000MHz

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.7455	29.00	-13.24	15.76	40.00	-24.24	peak
2	261.8300	29.35	-14.77	14.58	46.00	-31.42	peak
3	410.2400	29.52	-10.55	18.97	46.00	-27.03	peak
4	499.4800	28.81	-8.02	20.79	46.00	-25.21	peak
5	733.2500	30.25	-2.35	27.90	46.00	-18.10	peak
6	934.0400	29.89	0.89	30.78	46.00	-15.22	peak

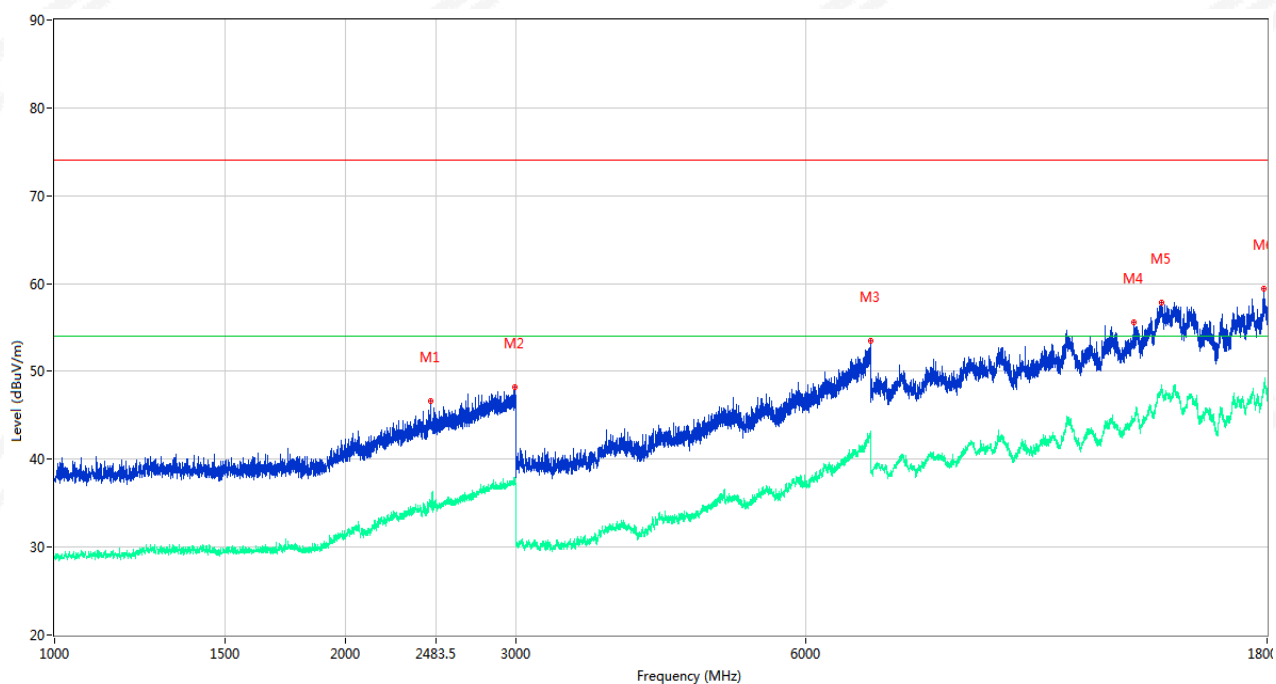
Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.7455	29.13	-13.24	15.89	40.00	-24.11	peak
2	373.3800	30.04	-12.42	17.62	46.00	-28.38	peak
3	416.0600	29.58	-10.28	19.30	46.00	-26.70	peak
4	568.3500	30.42	-5.58	24.84	46.00	-21.16	peak
5	782.7200	29.96	-2.14	27.82	46.00	-18.18	peak
6	910.7600	33.58	-0.17	33.41	46.00	-12.59	peak

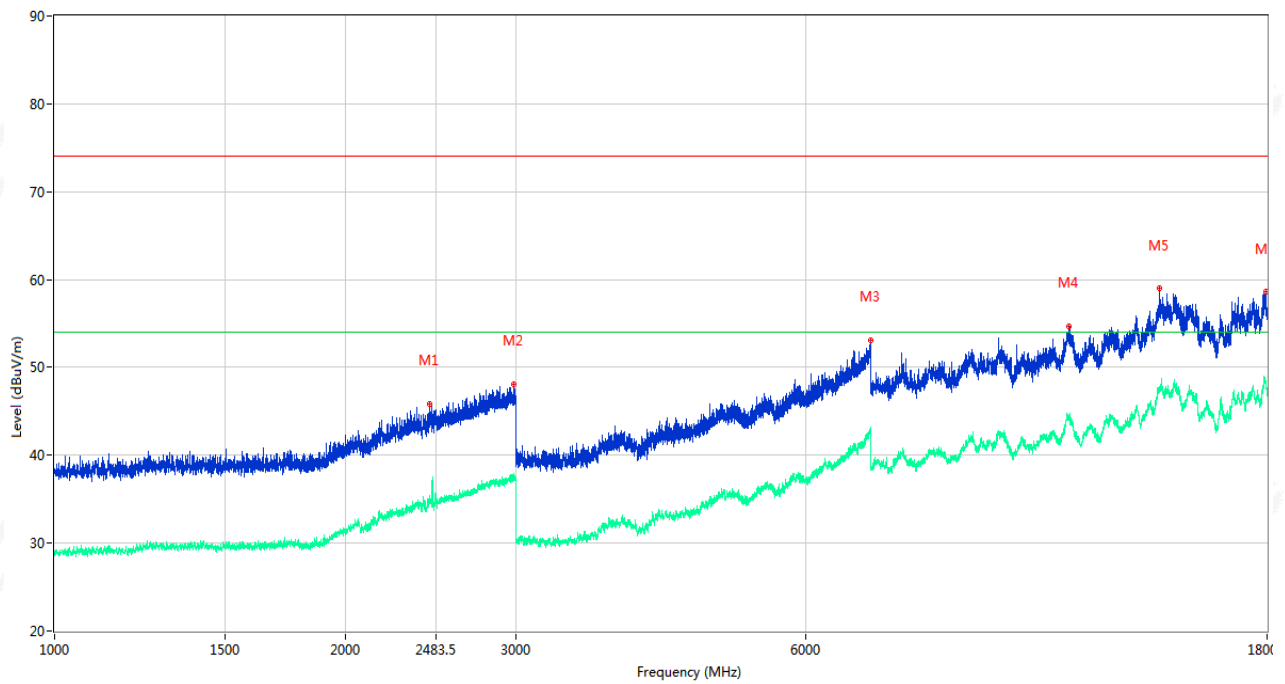
Above 1G Radiation Spurious

1GHz - 18GHz
Horizontal



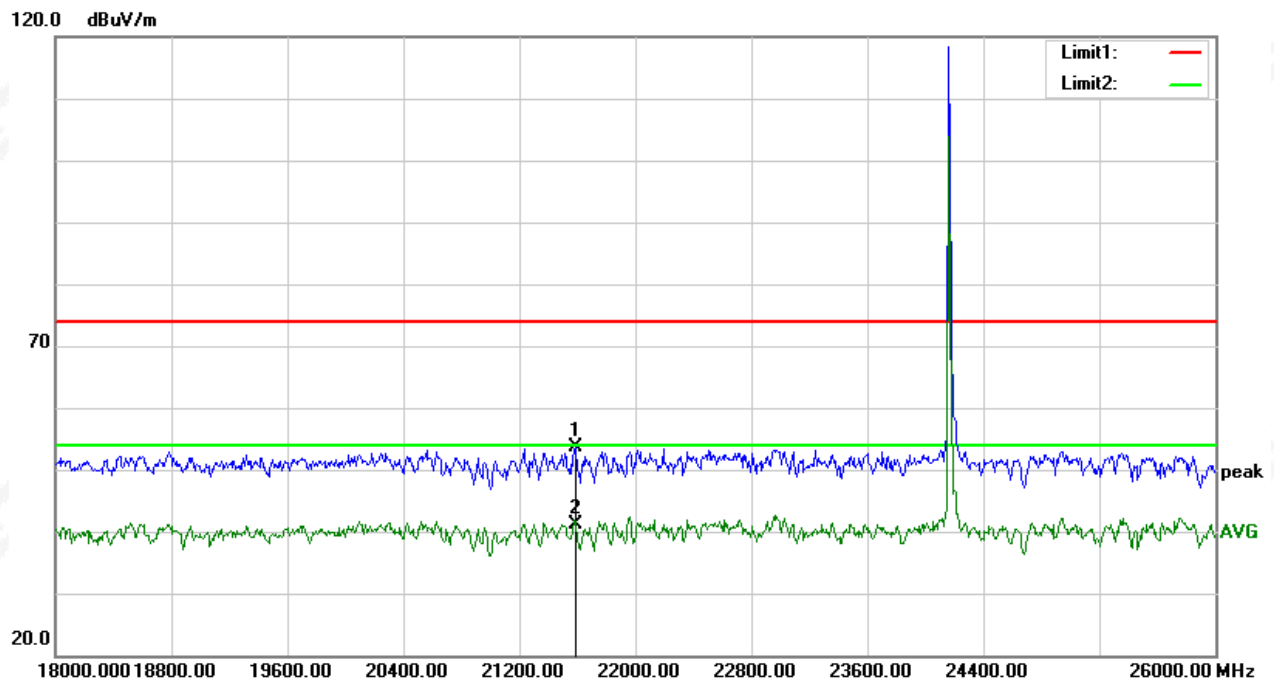
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2452.000	46.63	3.24	74.0	-27.37	Peak	111.50	Horizontal	Pass
1**	2452.000	35.34	3.24	54.0	-18.66	AV	111.50	Horizontal	Pass
2	2995.500	48.16	5.44	74.0	-25.84	Peak	291.10	Horizontal	Pass
2**	2995.500	37.42	5.44	54.0	-16.58	AV	291.10	Horizontal	Pass
3	6999.000	53.46	1.31	74.0	-20.54	Peak	227.50	Horizontal	Pass
3**	6999.000	42.95	1.31	54.0	-11.05	AV	227.50	Horizontal	Pass
4	13096.750	55.57	4.46	74.0	-18.43	Peak	173.40	Horizontal	Pass
4**	13096.750	44.22	4.46	54.0	-9.78	AV	173.40	Horizontal	Pass
5	14007.000	57.81	8.34	74.0	-16.19	Peak	360.00	Horizontal	Pass
5**	14007.000	48.27	8.34	54.0	-5.73	AV	360.00	Horizontal	Pass
6	17881.750	59.45	7.08	74.0	-14.55	Peak	269.70	Horizontal	Pass
6**	17881.750	48.72	7.08	54.0	-5.28	AV	269.70	Horizontal	Pass

Vertical



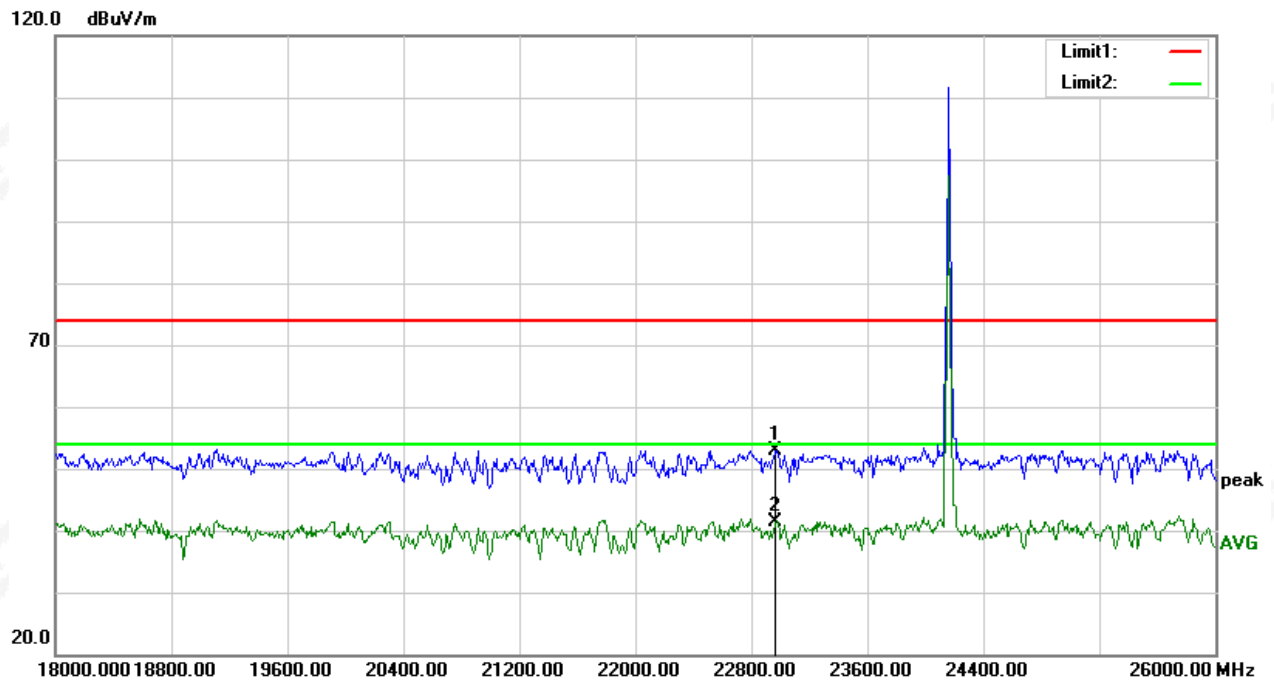
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2445.000	45.82	3.22	74.0	-28.18	Peak	81.30	Vertical	Pass
1**	2445.000	35.11	3.22	54.0	-18.89	AV	81.30	Vertical	Pass
2	2986.500	48.11	5.39	74.0	-25.89	Peak	304.20	Vertical	Pass
2**	2986.500	37.84	5.39	54.0	-16.16	AV	304.20	Vertical	Pass
3	6992.000	53.06	1.26	74.0	-20.94	Peak	18.60	Vertical	Pass
3**	6992.000	42.89	1.26	54.0	-11.11	AV	18.60	Vertical	Pass
4	11235.000	54.70	2.50	74.0	-19.30	Peak	26.60	Vertical	Pass
4**	11235.000	44.14	2.50	54.0	-9.86	AV	26.60	Vertical	Pass
5	13938.250	58.96	7.68	74.0	-15.04	Peak	81.60	Vertical	Pass
5**	13938.250	47.43	7.68	54.0	-6.57	AV	81.60	Vertical	Pass
6	17934.000	58.56	6.98	74.0	-15.44	Peak	243.10	Vertical	Pass
6**	17934.000	48.28	6.98	54.0	-5.72	AV	243.10	Vertical	Pass

18 GHz - 26GHz
Horizontal



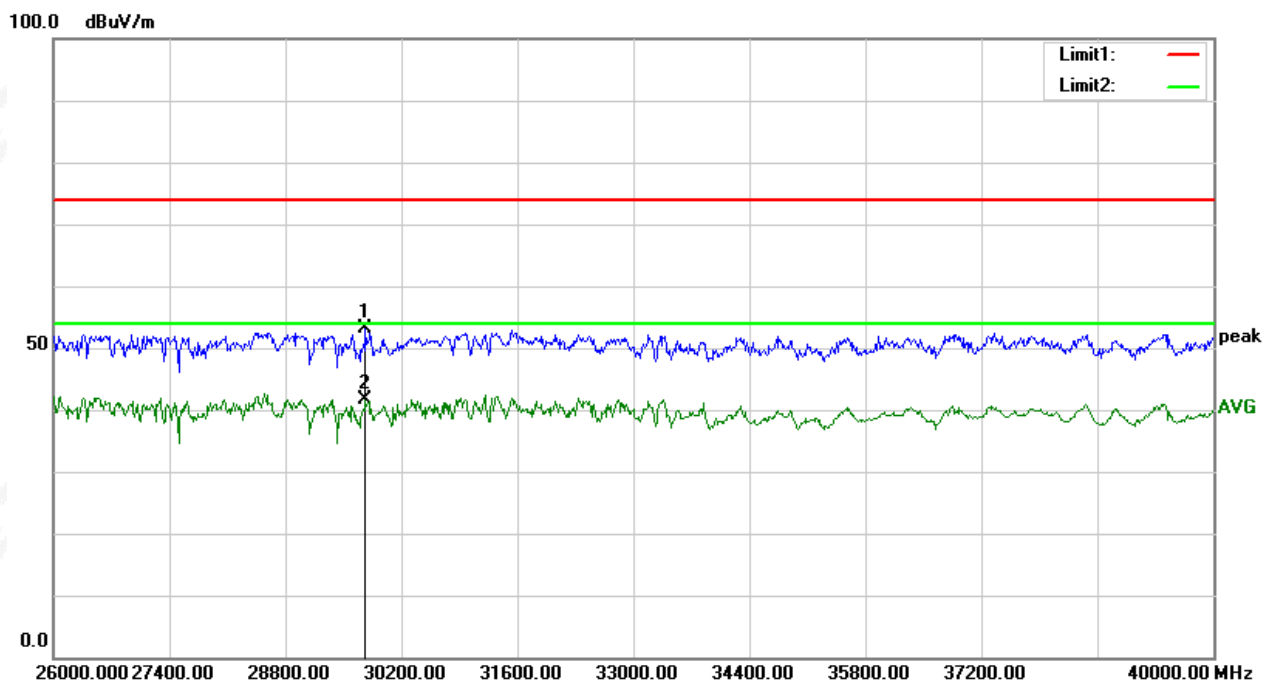
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	21592.000	50.62	3.03	53.65	74.00	-20.35	peak
2	21592.000	38.09	3.03	41.12	54.00	-12.88	AVG

Vertical



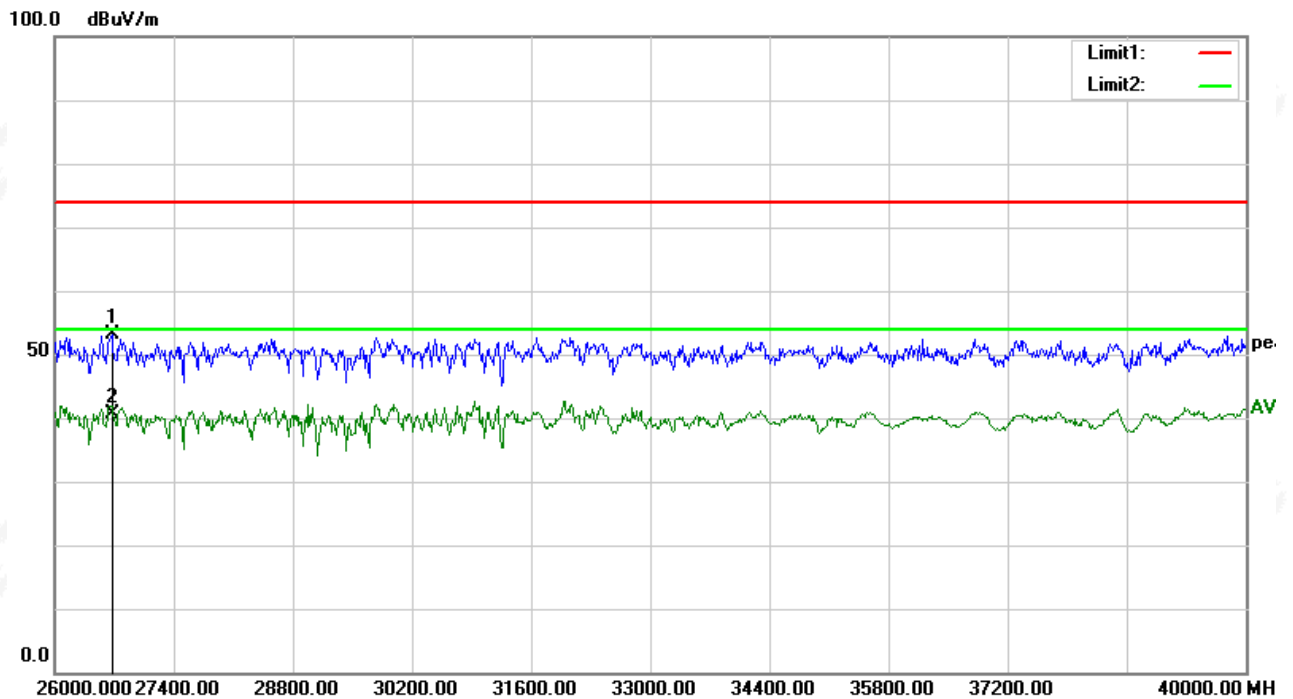
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	22968.000	49.35	3.65	53.00	74.00	-21.00	peak
2	22968.000	37.69	3.65	41.34	54.00	-12.66	AVG

26GHz -40GHz
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	29766.000	44.01	9.08	53.09	74.00	-20.91	peak
2	29766.000	32.45	9.08	41.53	54.00	-12.47	AVG

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26672.000	46.83	6.25	53.08	74.00	-20.92	peak
2	26672.000	34.46	6.25	40.71	54.00	-13.29	AVG



Above 40GHz

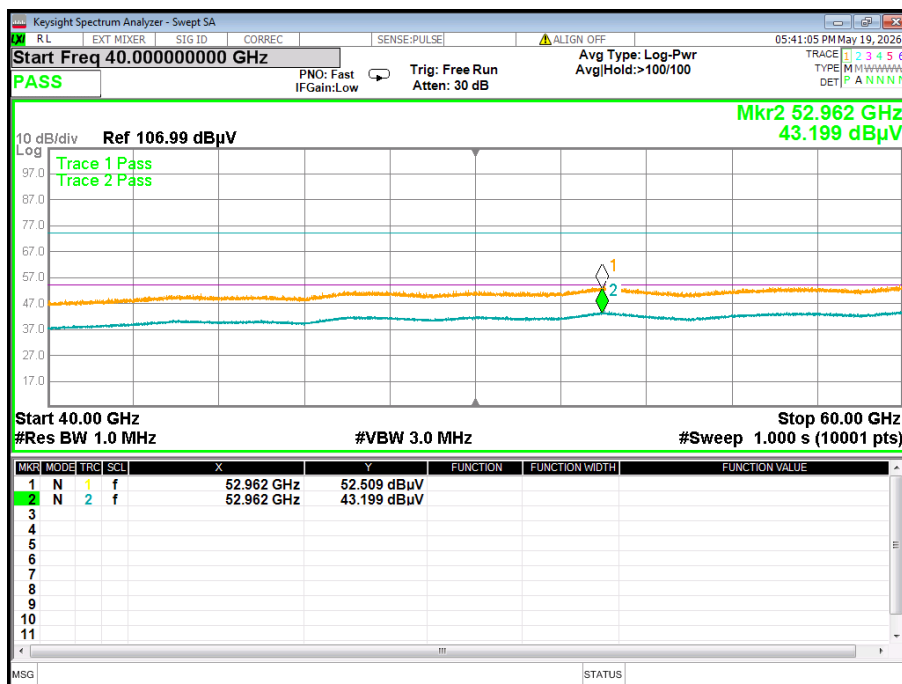
Frequency	Mes@ 1.5m	Mes@ 3m	Correct	Limit	Margin	Remark	Pol.
(GHz)	(dBuV/m)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dB)		
52.9620	52.51	46.49	39.03	74.00	-27.51	peak	Horizontal
52.9620	43.20	37.18	39.03	54.00	-16.82	AVG	Vertical
53.0860	52.74	46.71	39.24	74.00	-27.29	peak	Horizontal
53.0860	42.99	36.97	39.24	54.00	-17.03	AVG	Vertical
72.9600	52.05	46.03	42.31	74.00	-27.97	peak	Horizontal
72.9600	42.29	36.27	42.31	54.00	-17.73	AVG	Vertical
72.9360	52.98	46.96	42.42	74.00	-27.04	peak	Horizontal
72.9360	42.05	36.03	42.42	54.00	-17.97	AVG	Vertical
76.8900	53.13	47.11	43.62	74.00	-26.89	peak	Horizontal
76.8900	43.04	37.02	43.62	54.00	-16.98	AVG	Vertical
76.9850	52.36	46.34	43.72	74.00	-27.66	peak	Horizontal
76.9850	43.58	37.56	43.72	54.00	-16.44	AVG	Vertical

Note:

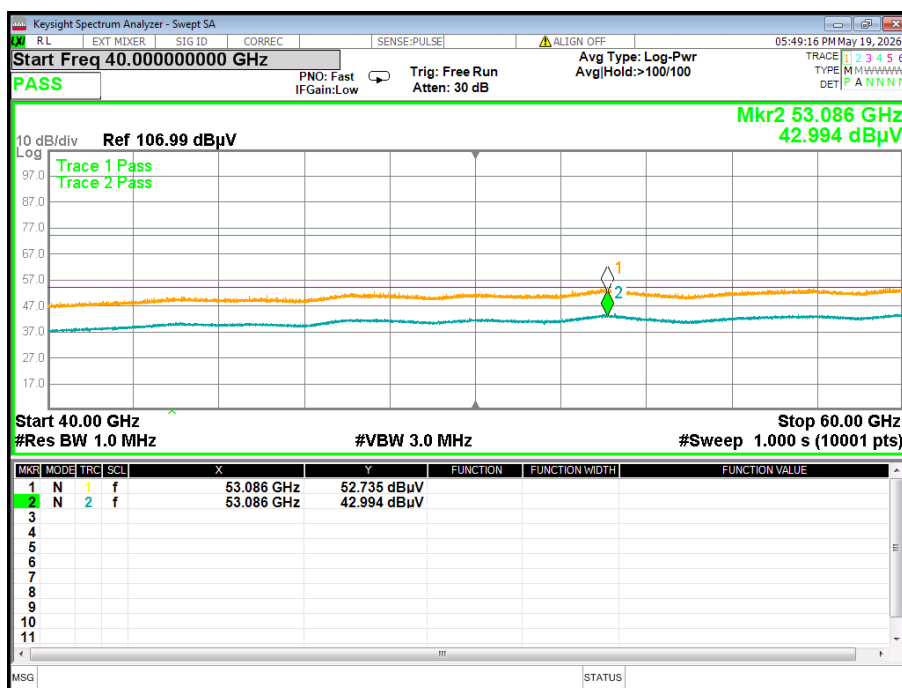
$$\text{Mes@3m} = \text{Mes@1.5m} + 20 \cdot \log(1.5\text{m}/3\text{m})$$

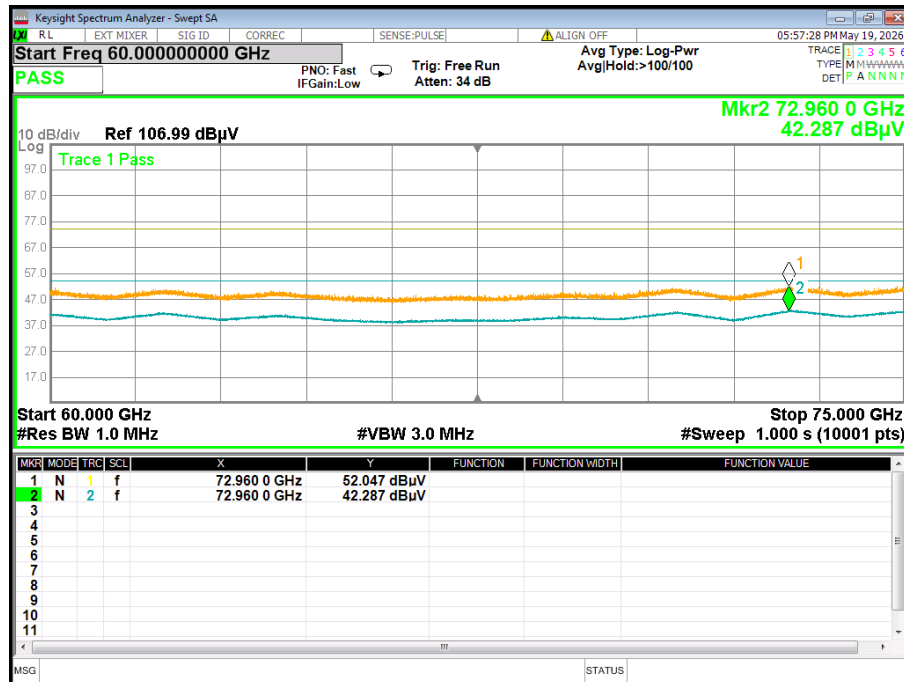
40GHz - 60GHz

Horizontal

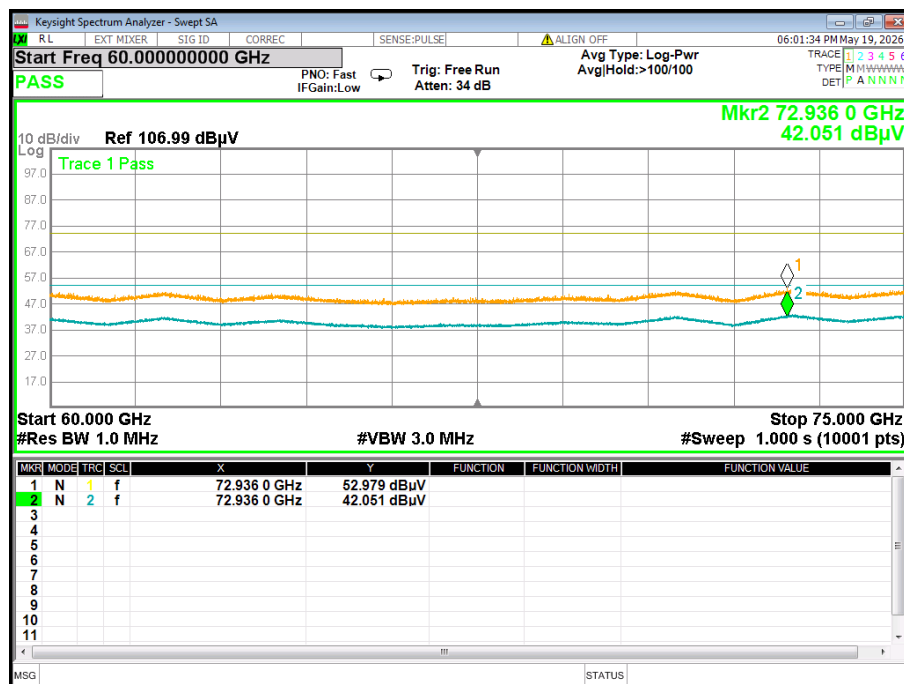


Vertical



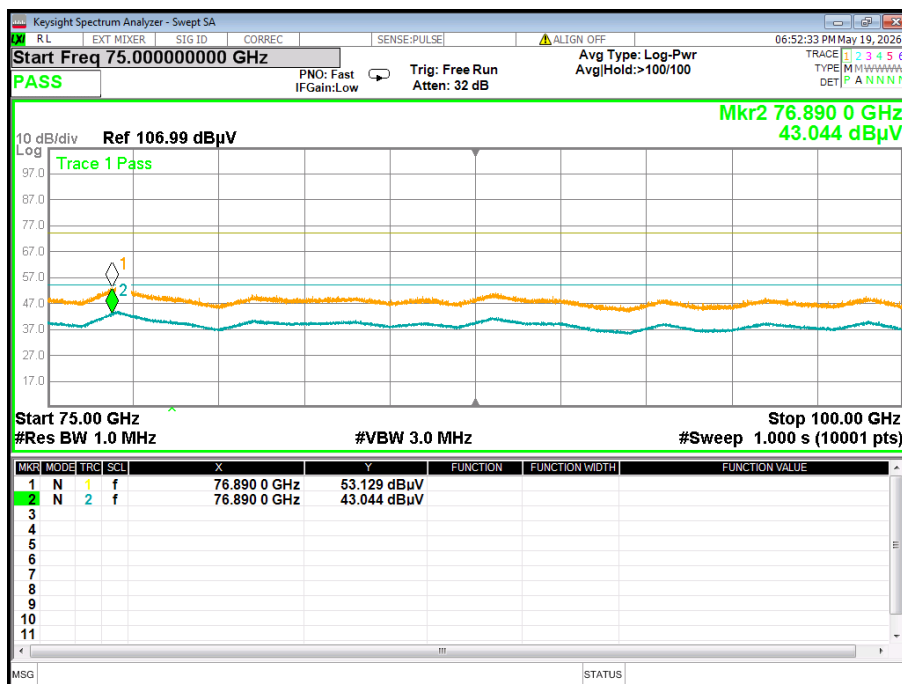
60GHz - 75GHz-
Horizontal

Vertical

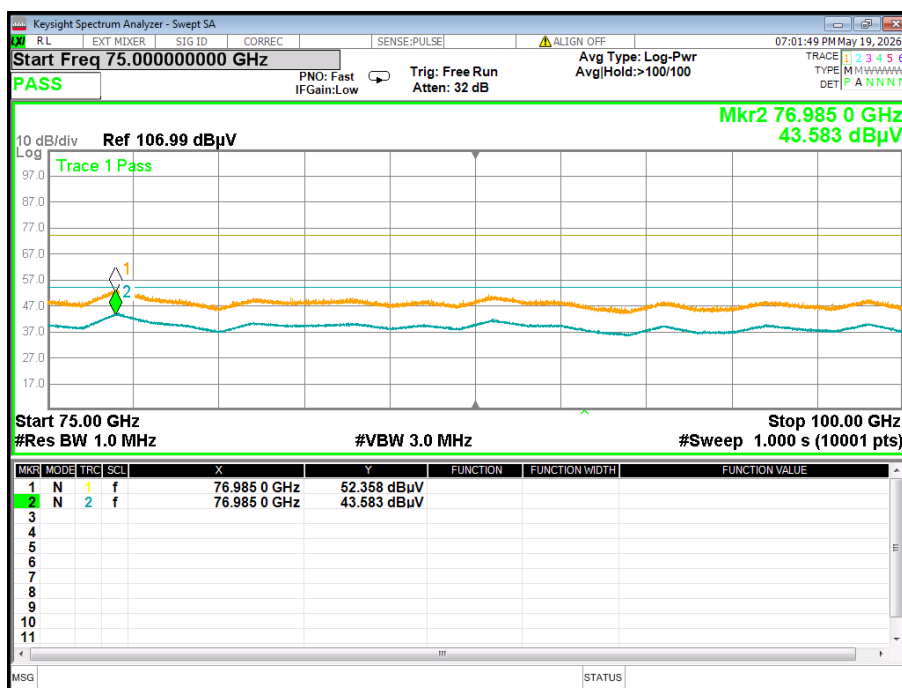


75GHz - 110GHz

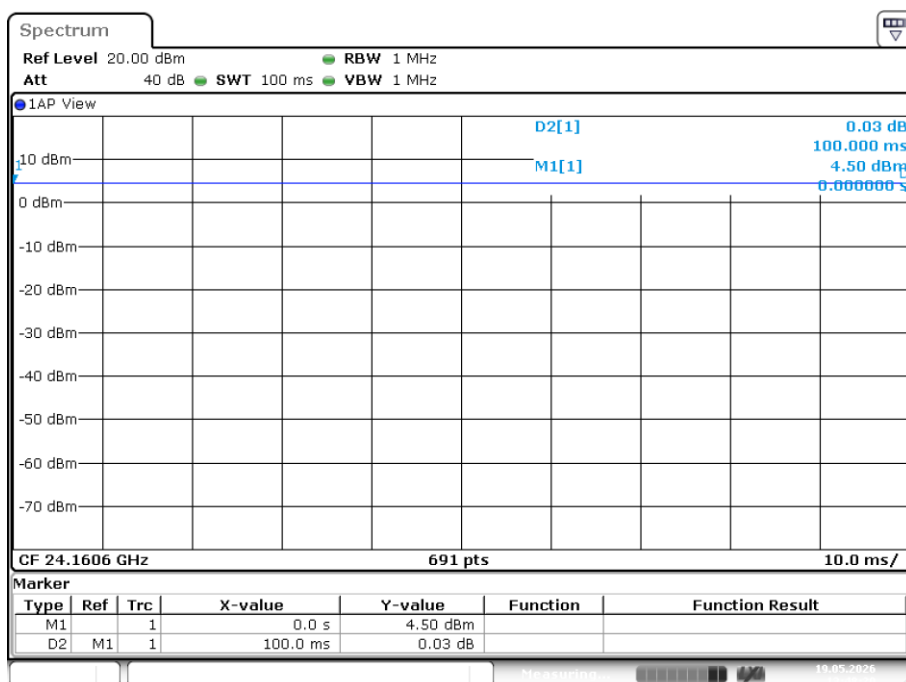
Horizontal



Vertical



Duty cycle



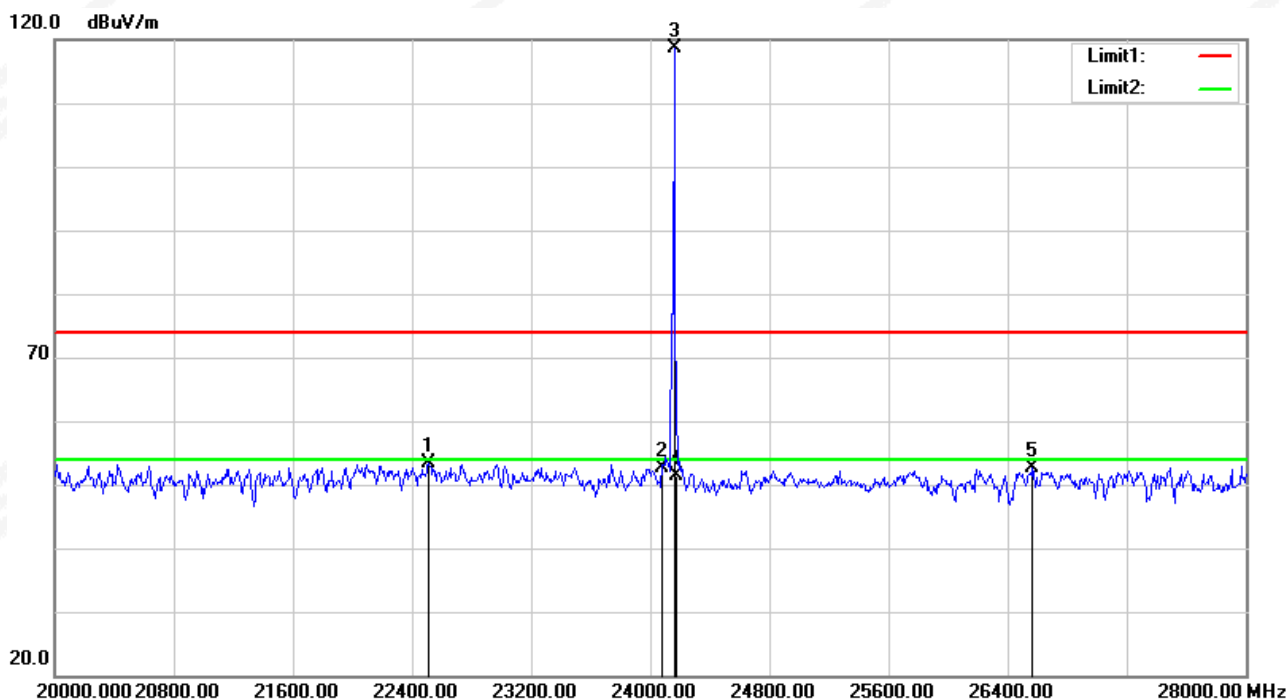
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Ton (ms)	Tp (ms)	Duty Cycle (%)	Duty Factor
100	100	100	0

Note: Duty Factor=20*LOG10(1/(Ton/Tp))

Radiation Restricted band&EIRP

Horizontal

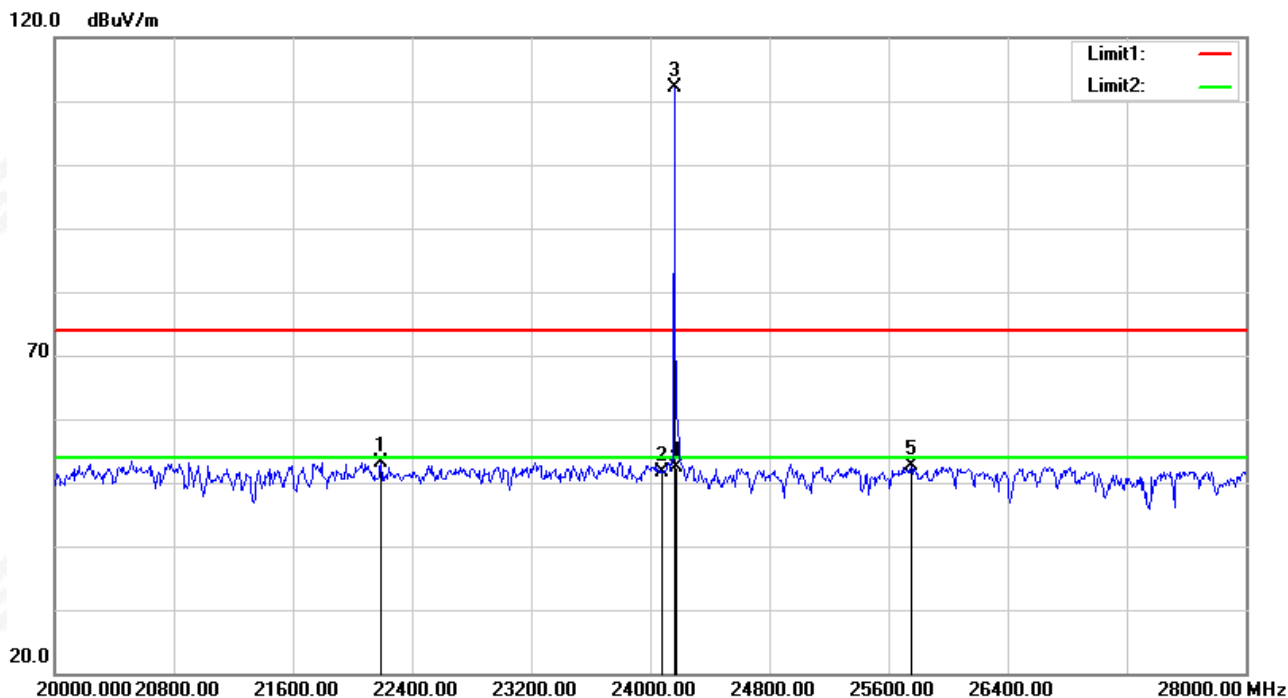


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22512.000	49.52	3.91	53.43	74.00	-20.57	peak
2	24075.000	48.02	4.64	52.66	74.00	-21.34	peak
4	24175.000	46.70	4.67	51.37	74.00	-22.63	peak
5	26568.000	46.50	6.13	52.63	74.00	-21.37	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	24160.000	113.91	4.65	-	118.56	147.96	-29.4	peak
3	24160.000	113.91	4.65	0	118.56	127.96	-9.4	AVG

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22192.000	49.53	3.61	53.14	74.00	-20.86	peak
2	24075.000	47.05	4.64	51.69	74.00	-22.31	peak
4	24175.000	47.73	4.67	52.40	74.00	-21.60	peak
5	25752.000	46.85	5.73	52.58	74.00	-21.42	peak

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	24160.000	107.46	4.65	-	112.11	147.96	-35.85	peak
3	24160.000	107.46	4.65	0	112.11	127.96	-15.85	AVG

5. OCCUPIED BANDWIDTH

5.1 LIMIT

The occupied bandwidth is defined as the 99% bandwidth.

According to § 2.1049 and RSS-Gen section 6.7: The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

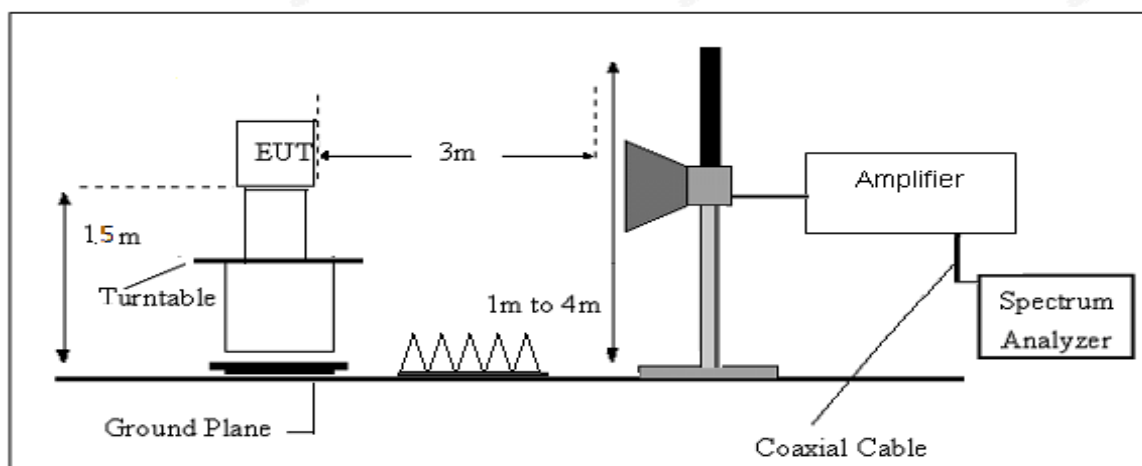
The occupied bandwidth is defined as the 20dB bandwidth.

According to § 15.215 (c): Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

5.2 TEST PROCEDURE

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in RSS Gen
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3m
- EUT is set into operation.
- The turntable rotates from 0 degree to 360 degree.
- The antenna with external mixer is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set the resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth or least 100KHz and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

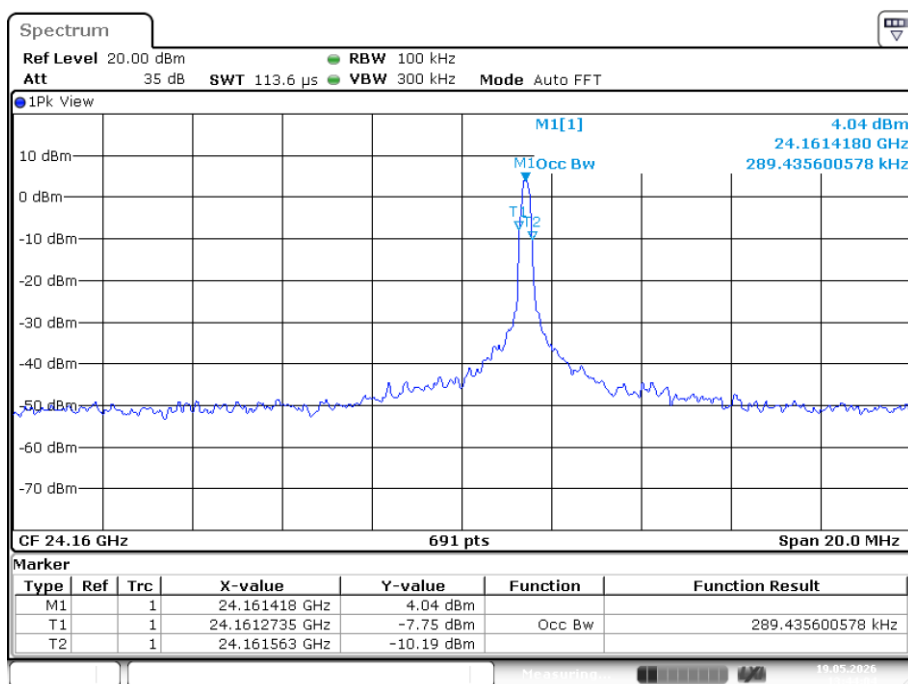
5.3 TEST SETUP



5.4 TEST RESULT

Lowest Frequency(GHz)	Highest Frequency(GHz)	99% Bandwidth (MHz)	Limit (GHz)	Result
24.1612735	24.161563	0.2894356	24.075-24.175	Pass

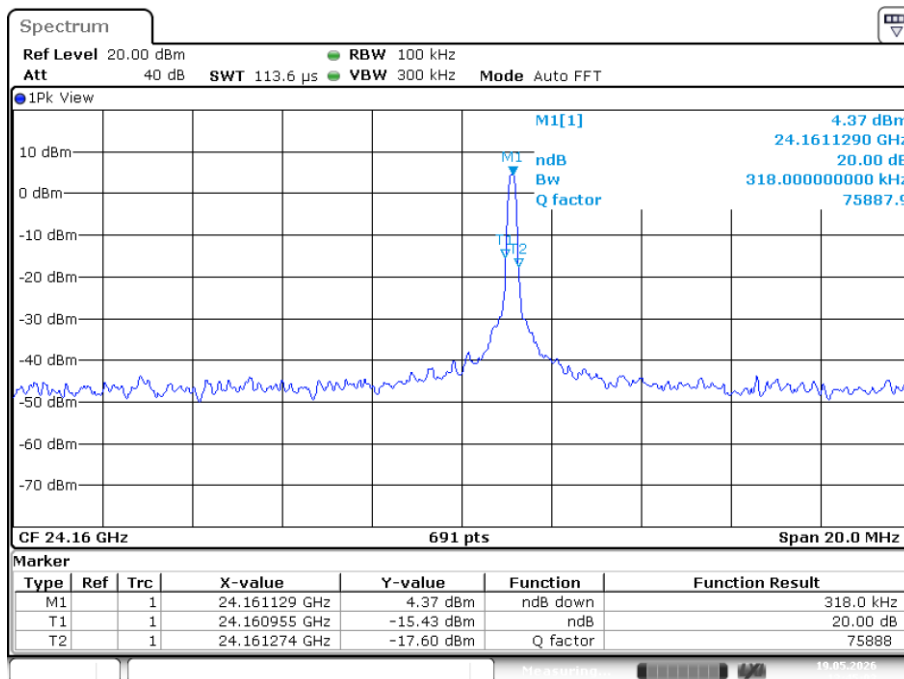
99% Bandwidth



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Lowest Frequency(GHz)	Highest Frequency(GHz)	20dB Bandwidth (MHz)	Limit (GHz)	Result
24.160955	24.161274	0.318	24.075-24.175	Pass

20dB Bandwidth



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6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

6.2 EUT ANTENNA

The EUT antenna is Integrated Patch Antenna. It comply with the standard requirement.



7. PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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