

TEST REPORT

Application No.: SHEM2107008380CR
FCC ID: 2ARYN-MAX-S
Applicant: Shenzhen Trifo Technology Co., Ltd.
Address of Applicant: Room 201, Building A, No.1, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Manufacturer: Shenzhen Trifo Technology Co., Ltd.
Address of Manufacturer: Room 201, Building A, No.1, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Factory: Flextronics computing (Suzhou) Co., Ltd.
Address of Factory: No.1 Guanpu Road, Guoxiang Street, WuZhong District, Suzhou, Jiangsu, China
Equipment Under Test (EUT):
EUT Name: AI Home Robot
Model No.: OLL-S, OLL-P, OLL-M, OLL-U
 Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: TRIFO
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-07-28
Date of Test: 2021-08-03 to 2021-09-07
Date of Issue: 2021-09-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan
Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn
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Revision Record			
Version	Description	Date	Remark
00	Original	2021-09-08	/

Authorized for issue by:				
		Bill Wu		
		Bill Wu / Project Engineer		
		Parlam Zhan		
		Parlam Zhan / Reviewer		



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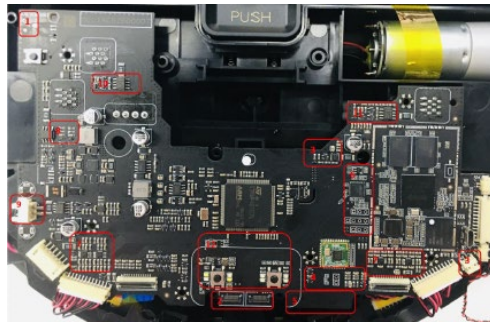
2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

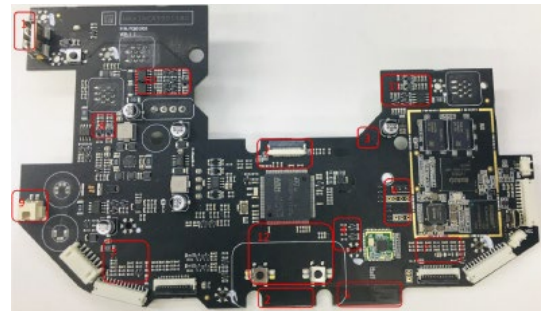
Remark: This C2PC has four major changes:

1. Keep the original model, increase product model: OLL-M\OLL-U\OLL-P\OLL-S.
2. The comparison of PCBA differences:

The PCBA of the newly added model product:

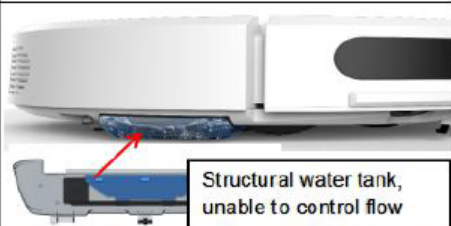
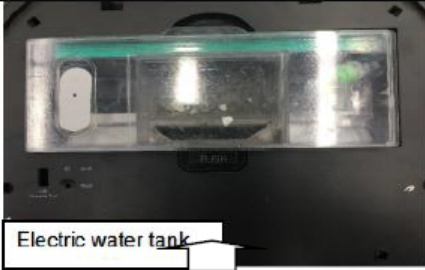
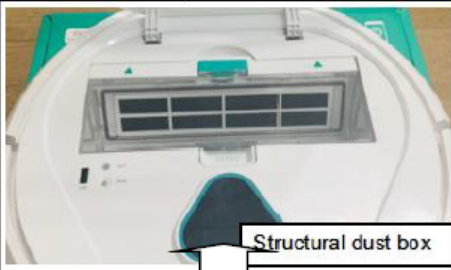


The PCBA of the registered product:



Differential position No.	The PCBA of the newly added model product(OLLIE)	The PCBA of the registered product(MAX)
1	Cancel the USB.	The USB.
2	Connect binocular camera.	Connect a monocular camera.
3	Increase the control circuit and interface of the electric water tank.	No control circuit of electric water tank.
4	Control LED lamp circuit movement position, does not belong to the wireless module circuit.	Control LED lamp circuit.
5	The antenna direction adjustment, The antenna gain does not change after adjusting the antenna direction.	The Original antenna direction
6	Add binocular camera circuit	No binocular camera circuit
7	Optimize drop sensor circuit	The Original circuit
8	Remove wheel encoder buffer circuit, optimize circuit	The Original circuit
9	Adjust the connector orientation to fit the structural space	The Original position
10	Simplified circuit structure	The Original circuit
11	Adjust the layout to fit the structural position	The Original position
12	Add binocular camera circuit	No binocular camera circuit

3. The comparison of product shell differences:

1	Shell-flip top	 The overall design is black and gold	 The whole is white
2	Shell-the bump	 Side binocular camera design	 Monocular camera on the top, no camera on the side.
3	Shell-the bottom cover	 The bottom is not a water tank, it's mopping the floor	 Structural water tank, unable to control flow
4	Dust box	 Electric water tank	 Structural dust box
		The newly added model product	The registered product

4 Changed the product name from " Trifo Home Surveillance Robot Vacuum " to "AI Home Robot".

So we just fully retest Output Power and RSE for this product, other test data reference to original report SHEM191001797002.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 14.4V 5200mAh rechargeable battery
Charging adapter:	Model: SUN-INTE-267
	Input:100-240V~50/60Hz
	Output:20V 2000mA
Test voltage:	AC 120V 60Hz
Antenna Gain:	3.3dBi (Provided by manufacturer)
Antenna Type:	PCB Antenna
Channel Spacing:	5MHz
Data Rate:	802.11b:1/2/5.5./11Mbps
	802.11g:6/9/12/18/24/36/48/54Mbps
	802.11n:MCS0-MCS7
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
	802.11n(HT40):7
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	802.11n(HT40): 2422MHz to 2452MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
Serial port adapter plate	/	Test Plate 3	/



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)					
EMI test receiver	R&S	ESR7	EM162-1	2020-12-20	2021-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2020-12-20	2021-12-19
LISN	EMCO	3816/2	SHEM019-1	2020-12-20	2021-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2020-12-20	2021-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020-12-20	2021-12-19
CE test Cable	/	CE01	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.11122 a	/	/
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2021-08-13	2022-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2021-08-13	2022-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2021-08-13	2022-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2021-07-28	2022-07-27
Switcher	Tonscend	JS0806	SHEM184-1	2021-08-13	2022-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2021-08-13	2022-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-25	2021-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2020-12-20	2021-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2020-12-20	2021-12-19
Conducted test Cable	/	RF01~RF04	/	2020-12-20	2021-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2020-12-20	2021-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2020-12-20	2021-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2018-10-31	2021-10-30
Pre-Amplifier	HP	8447D	SHEM236-1	2021-05-27	2022-05-26
Pre-Amplifier	PANSHAN	LNA 1-18G	SHEM235-1	2021-05-27	2022-05-26
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2020-12-20	2021-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.1112 21a	/	/



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6 Radio Spectrum Matter Test Results

6.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
 Test Method: ANSI C63.10 (2013) Section 6.2
 Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

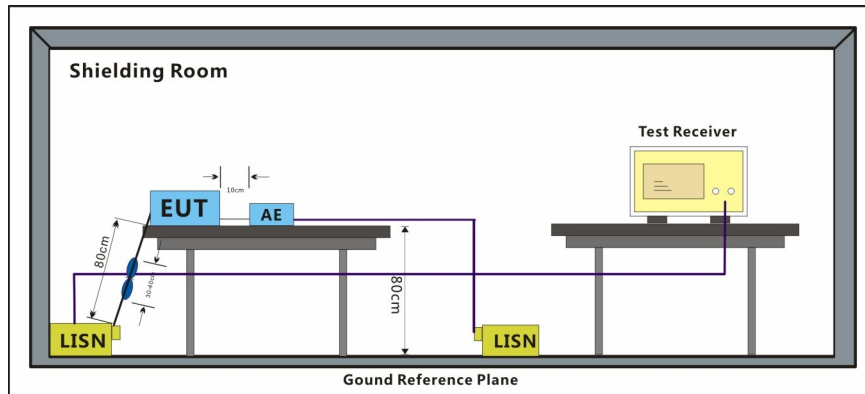
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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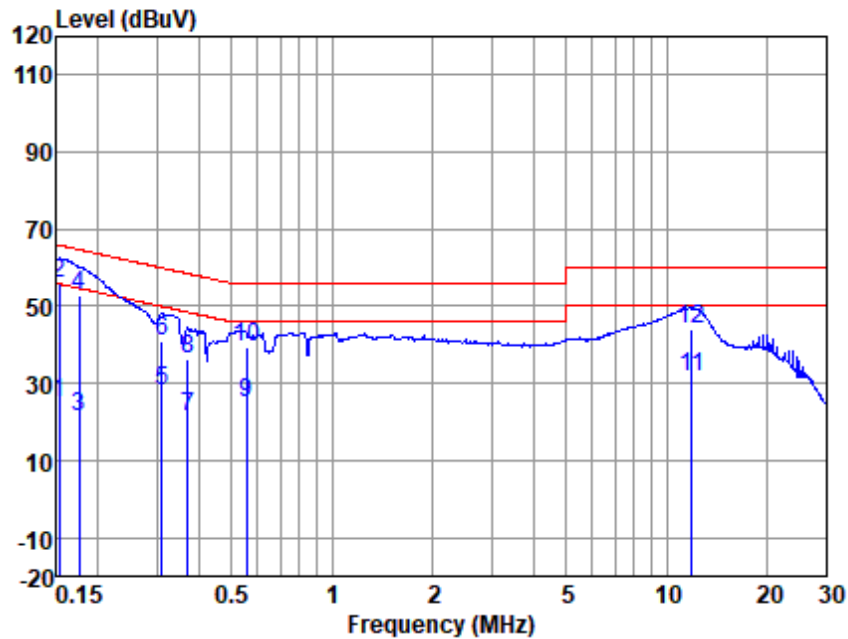
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Mode:a; Line:Live Line



LISN : LINE
 EUT/Project No : 8380CR
 Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	14.98	0.20	9.89	25.07	55.87	-30.80	Average
2	0.15	45.75	0.20	9.89	55.84	65.87	-10.03	QP
3	0.18	11.36	0.20	9.91	21.47	54.68	-33.21	Average
4	0.18	42.54	0.20	9.91	52.65	64.68	-12.03	QP
5	0.31	17.68	0.20	9.94	27.82	49.97	-22.15	Average
6	0.31	30.72	0.20	9.94	40.86	59.97	-19.11	QP
7	0.37	11.35	0.20	9.93	21.48	48.52	-27.04	Average
8	0.37	26.19	0.20	9.93	36.32	58.52	-22.20	QP
9	0.56	14.75	0.20	9.92	24.87	46.00	-21.13	Average
10	0.56	29.21	0.20	9.92	39.33	56.00	-16.67	QP
11	11.87	21.00	0.38	10.09	31.47	50.00	-18.53	Average
12	11.87	33.84	0.38	10.09	44.31	60.00	-15.69	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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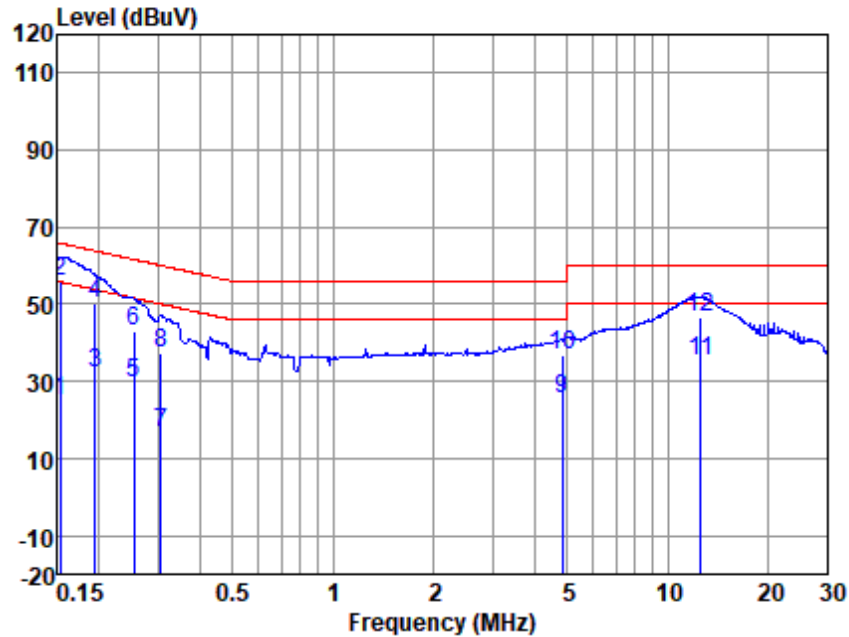
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Mode:a; Line:Neutral Line



LISN : NEUTRAL

EUT/Project No : 8380CR

Test Mode : a

	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	0.15	14.71	0.20	9.89	24.80	55.82	-31.02	Average
2	0.15	45.64	0.20	9.89	55.73	65.82	-10.09	QP
3	0.19	22.11	0.20	9.92	32.23	53.84	-21.61	Average
4	0.19	39.98	0.20	9.92	50.10	63.84	-13.74	QP
5	0.25	19.65	0.20	9.93	29.78	51.64	-21.86	Average
6	0.25	32.83	0.20	9.93	42.96	61.64	-18.68	QP
7	0.31	6.73	0.20	9.94	16.87	50.10	-33.23	Average
8	0.31	27.22	0.20	9.94	37.36	60.10	-22.74	QP
9	4.85	15.02	0.20	10.04	25.26	46.00	-20.74	Average
10	4.85	26.71	0.20	10.04	36.95	56.00	-19.05	QP
11	12.58	24.66	0.41	10.10	35.17	50.00	-14.83	Average
12	12.58	35.98	0.41	10.10	46.49	60.00	-13.51	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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6.2 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

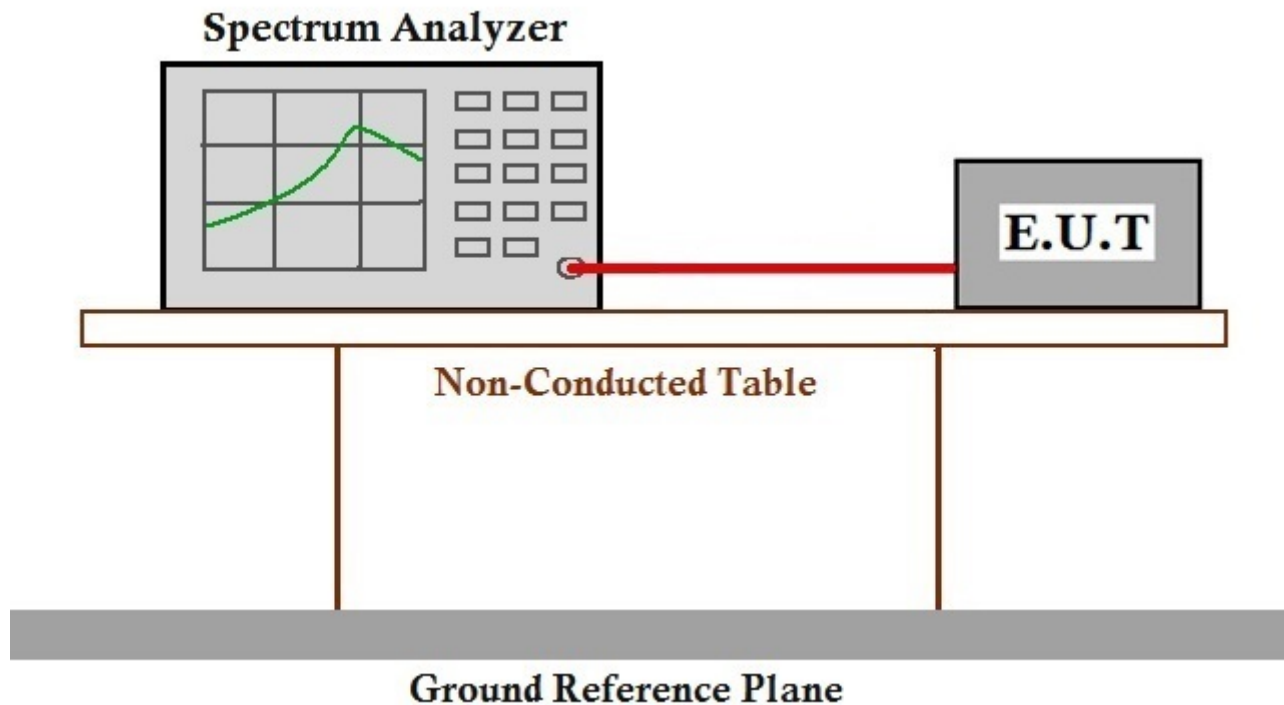
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

6.2.2 Test Setup Diagram



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6.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM210700838001



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6.3 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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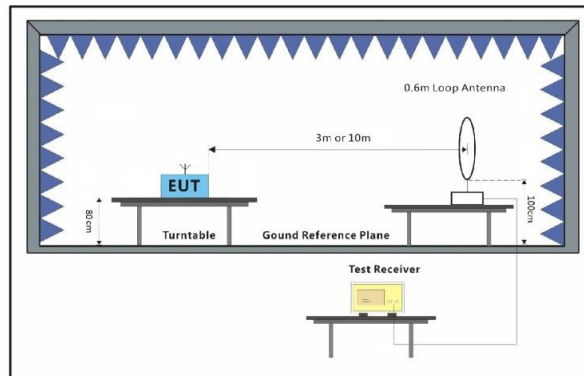
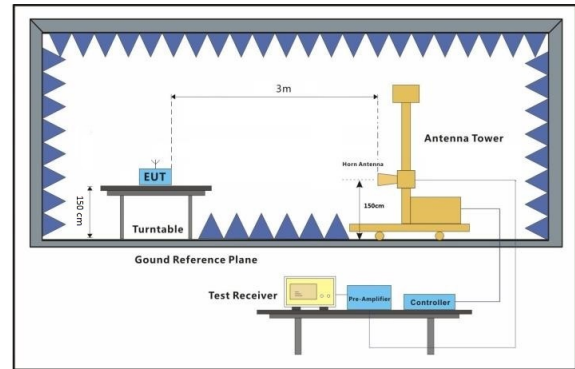
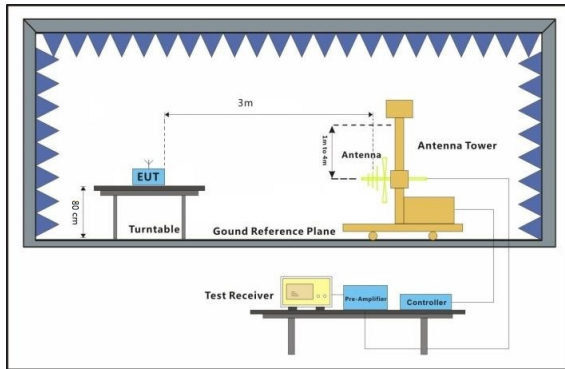
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

6.3.2 Test Setup Diagram



6.3.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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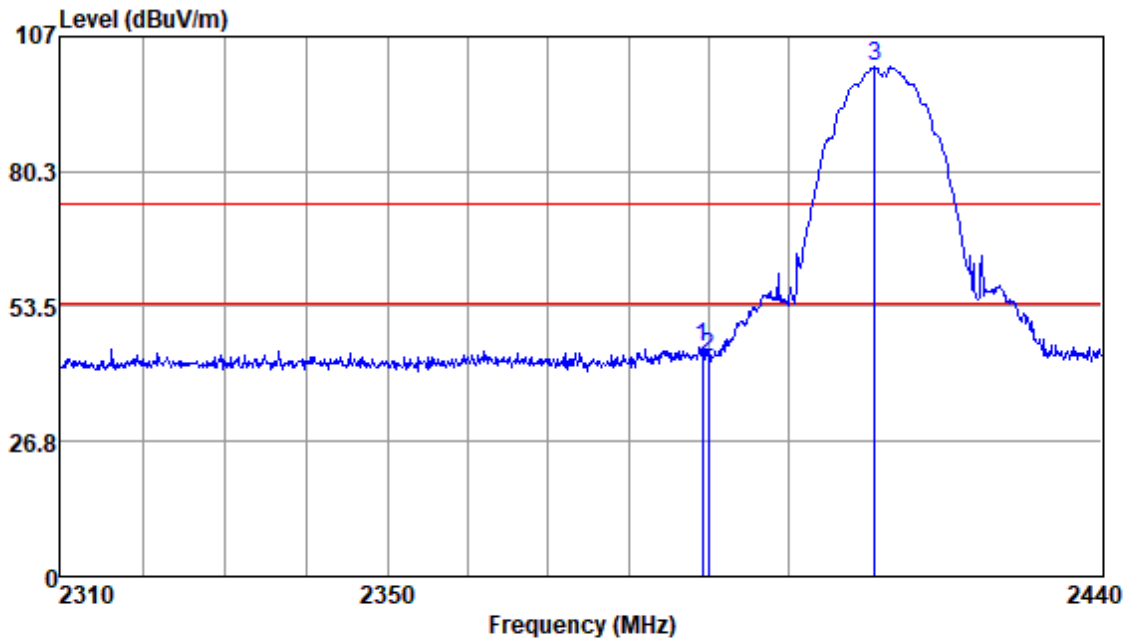
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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2389.24	48.76	28.97	2.77	35.18	45.32	74.00	-28.68	Peak
2390.00	46.99	28.97	2.77	35.18	43.55	74.00	-30.45	Peak
2411.05	104.31	29.00	2.79	35.20	100.90	74.00	26.90	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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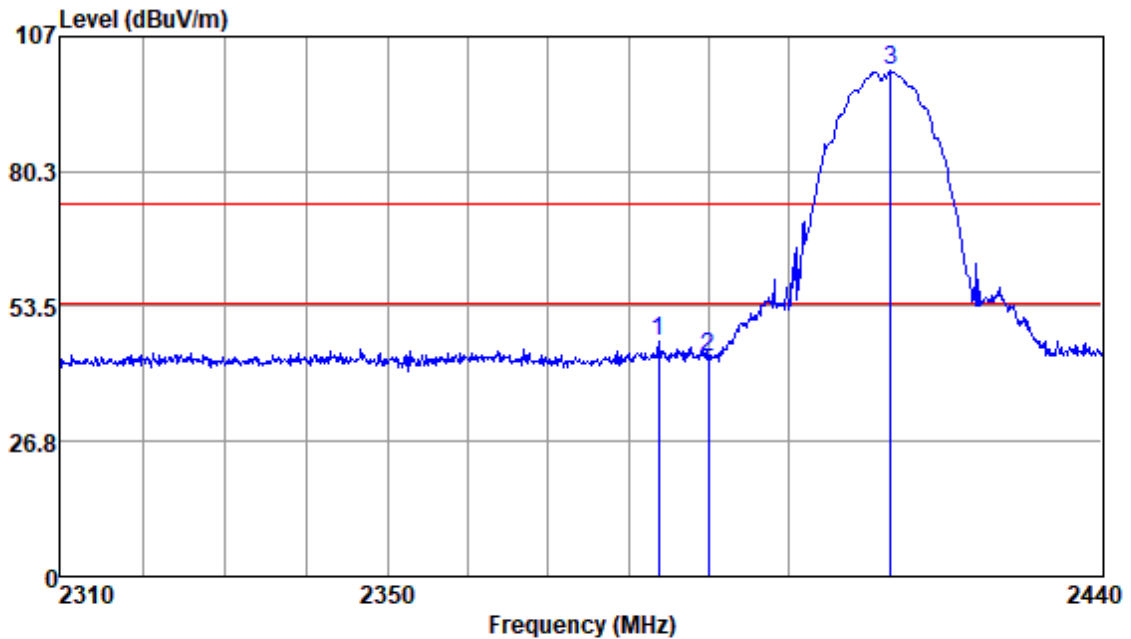
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2383.75	49.85	28.97	2.77	35.18	46.41	74.00	-27.59	Peak
2390.00	46.82	28.97	2.77	35.18	43.38	74.00	-30.62	Peak
2413.03	103.52	29.02	2.80	35.20	100.14	74.00	26.14	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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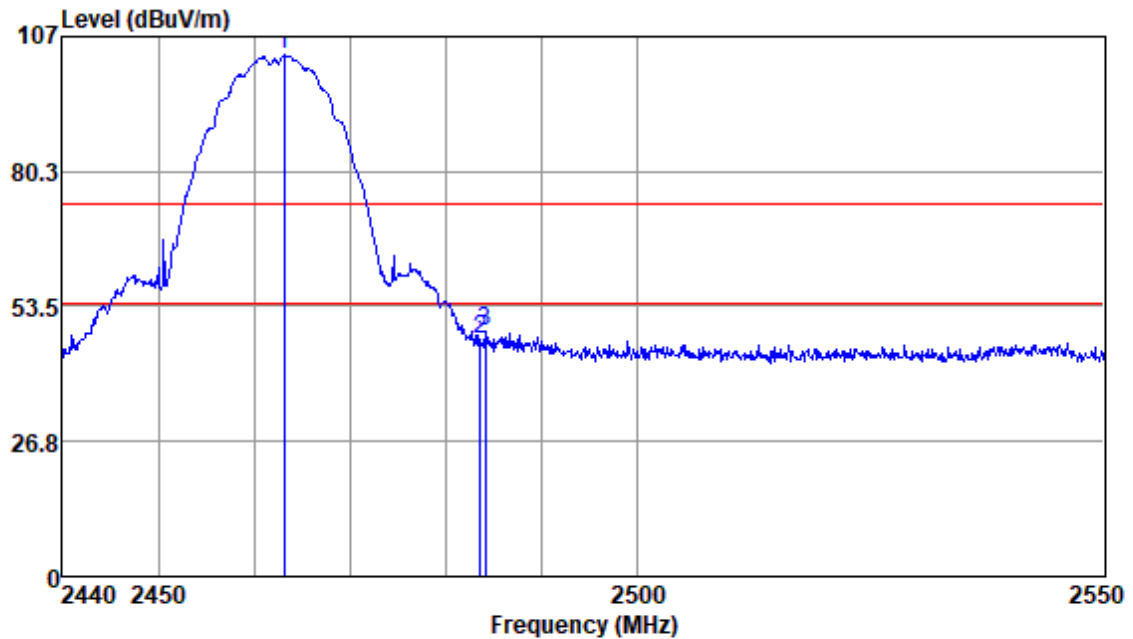
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t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2463.03	106.60	29.07	2.86	35.24	103.29	74.00	29.29	Peak
2483.50	50.18	29.11	2.88	35.26	46.91	74.00	-27.09	Peak
2484.08	51.66	29.11	2.88	35.26	48.39	74.00	-25.61	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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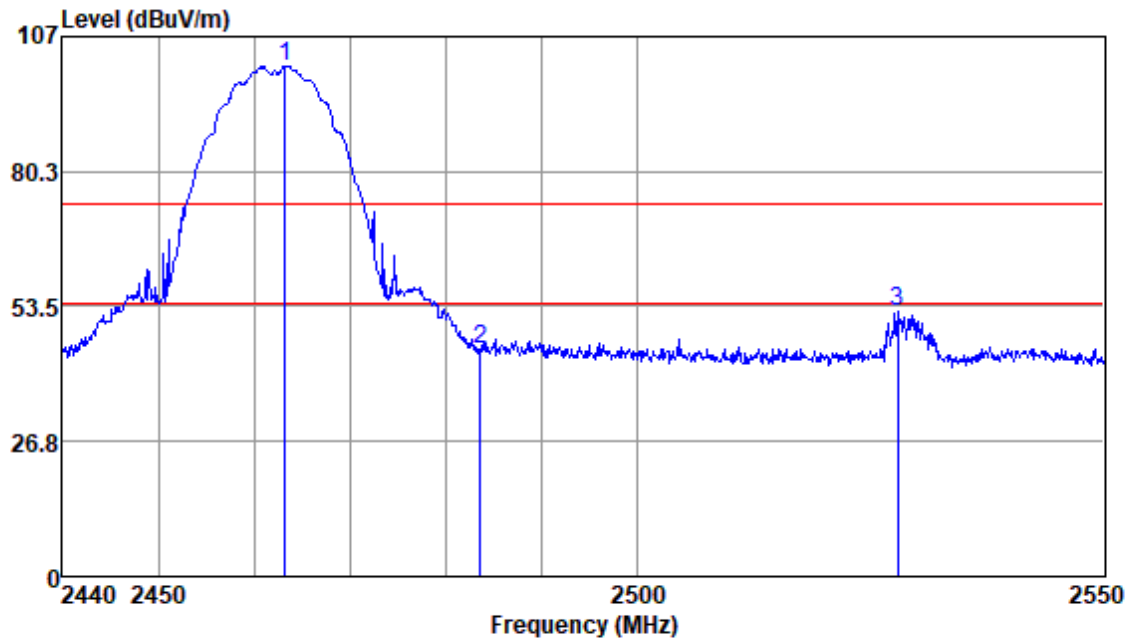
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t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2463.13	104.50	29.07	2.86	35.24	101.19	74.00	27.19	Peak
2483.50	48.36	29.11	2.88	35.26	45.09	74.00	-28.91	Peak
2527.83	55.41	29.31	2.92	35.31	52.33	74.00	-21.67	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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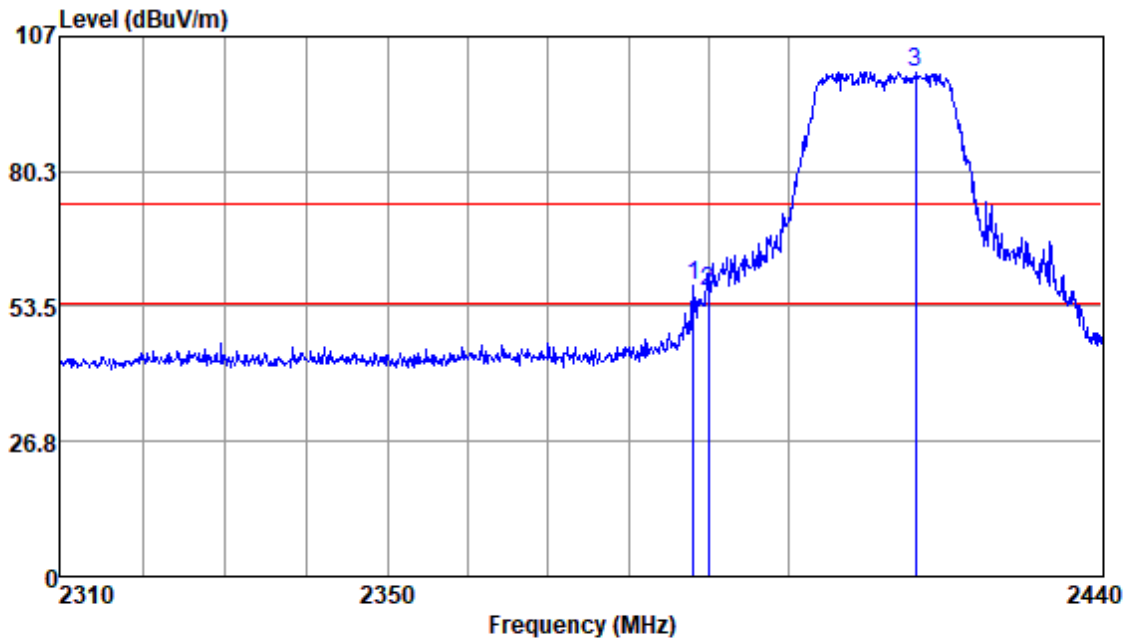
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.19	61.02	28.97	2.77	35.18	57.58	74.00	-16.42	Peak
2390.00	59.83	28.97	2.77	35.18	56.39	74.00	-17.61	Peak
2416.20	103.43	29.02	2.80	35.20	100.05	74.00	26.05	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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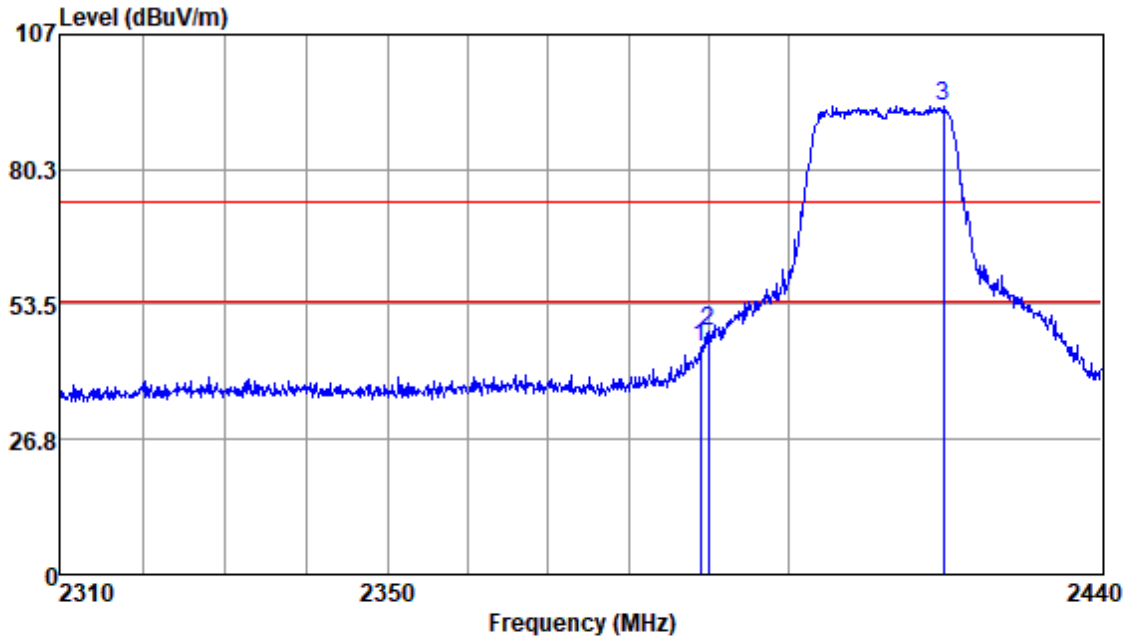
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.98	48.60	28.97	2.77	35.18	45.16	54.00	-8.84	Average
2390.00	51.47	28.97	2.77	35.18	48.03	54.00	-5.97	Average
2419.78	96.21	29.04	2.81	35.21	92.85	54.00	38.85	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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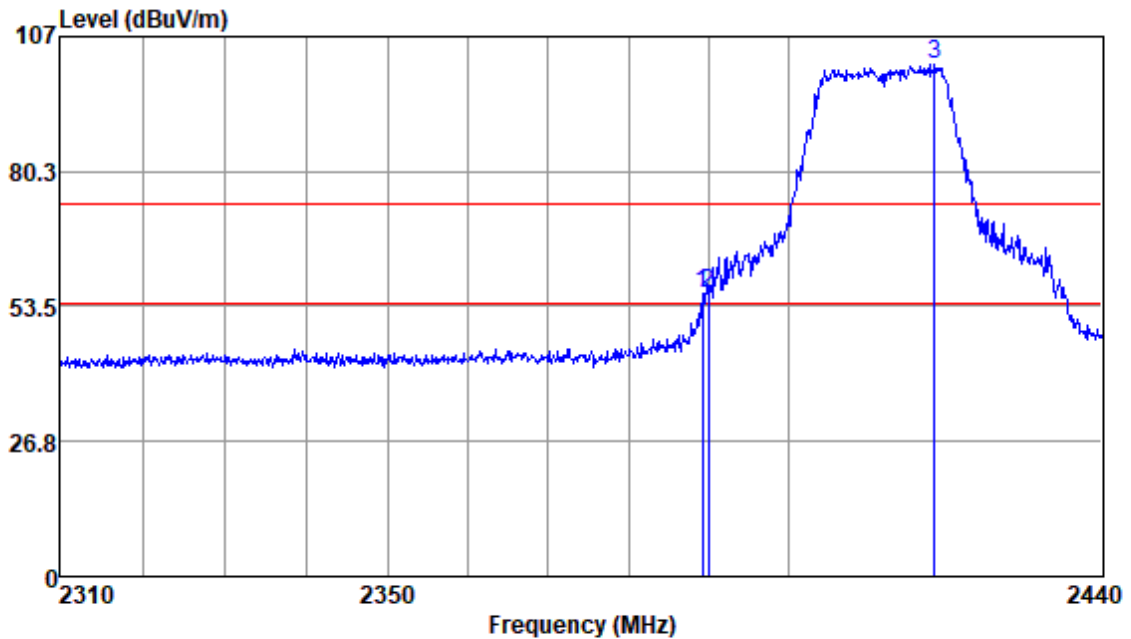
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2389.24	59.69	28.97	2.77	35.18	56.25	74.00	-17.75	Peak
2390.00	59.45	28.97	2.77	35.18	56.01	74.00	-17.99	Peak
2418.59	104.86	29.04	2.81	35.21	101.50	74.00	27.50	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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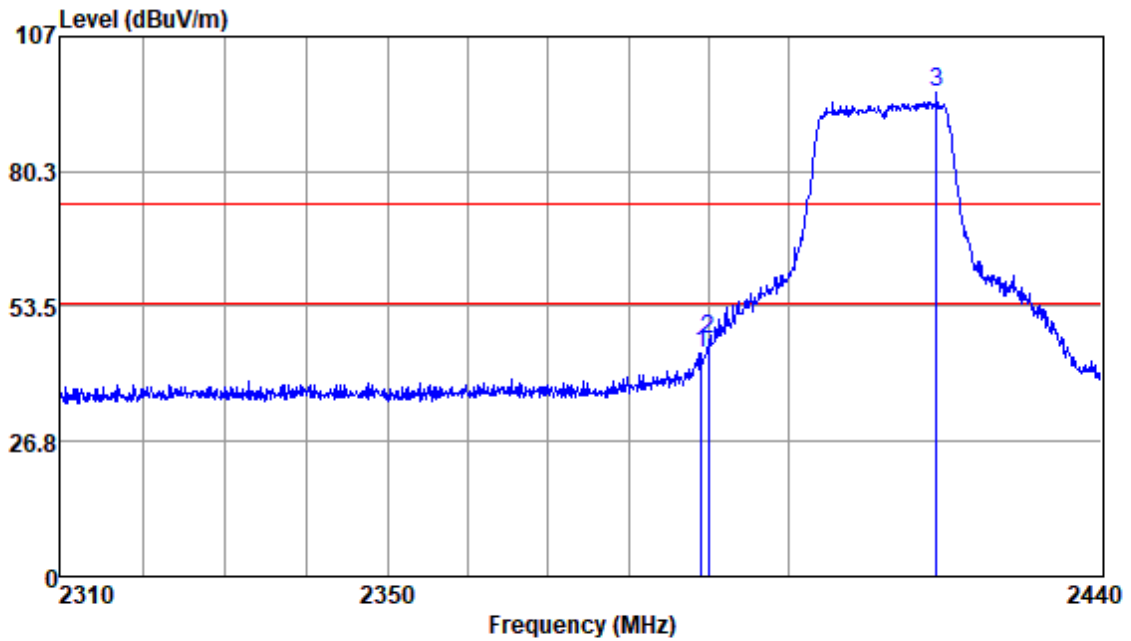
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2389.11	47.80	28.97	2.77	35.18	44.36	54.00	-9.64	Average
2390.00	50.54	28.97	2.77	35.18	47.10	54.00	-6.90	Average
2418.85	99.28	29.04	2.81	35.21	95.92	54.00	41.92	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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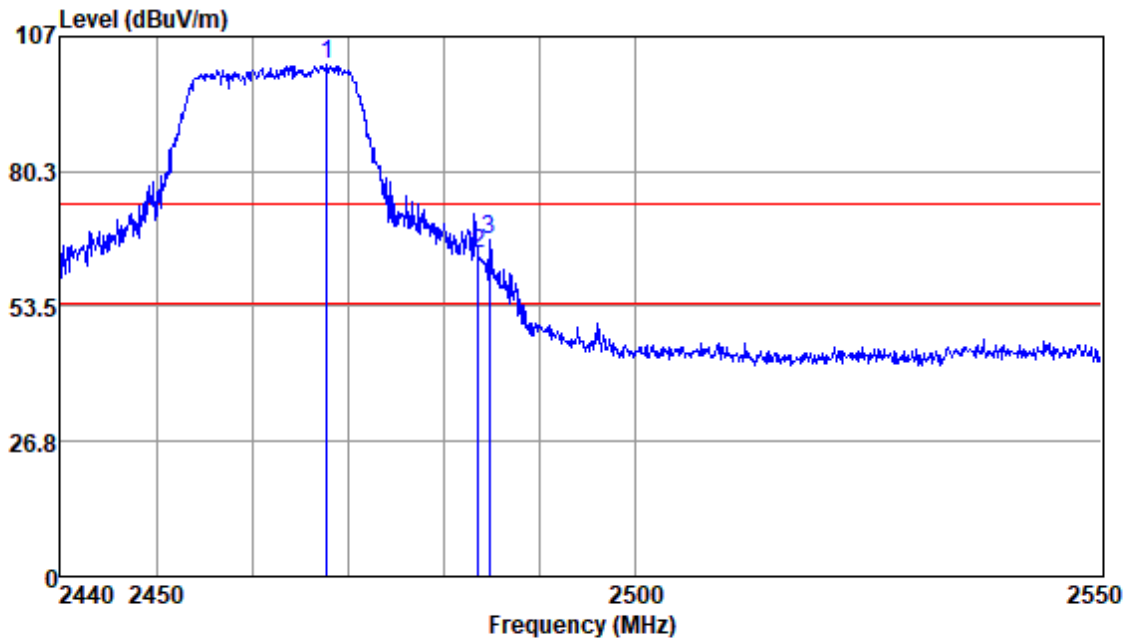
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2467.70	104.63	29.07	2.87	35.25	101.32	74.00	27.32	Peak
2483.50	67.20	29.11	2.88	35.26	63.93	74.00	-10.07	Peak
2484.73	70.10	29.11	2.88	35.26	66.83	74.00	-7.17	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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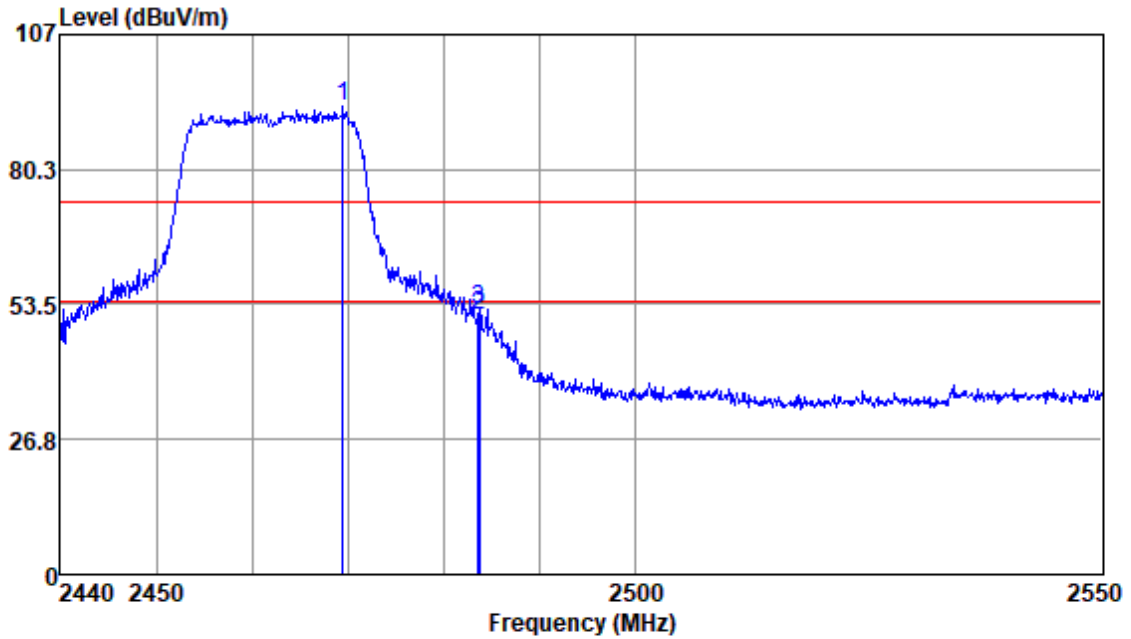
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2469.33	95.97	29.07	2.87	35.25	92.66	54.00	38.66	Average
2483.50	54.57	29.11	2.88	35.26	51.30	54.00	-2.70	Average
2483.64	55.80	29.11	2.88	35.26	52.53	54.00	-1.47	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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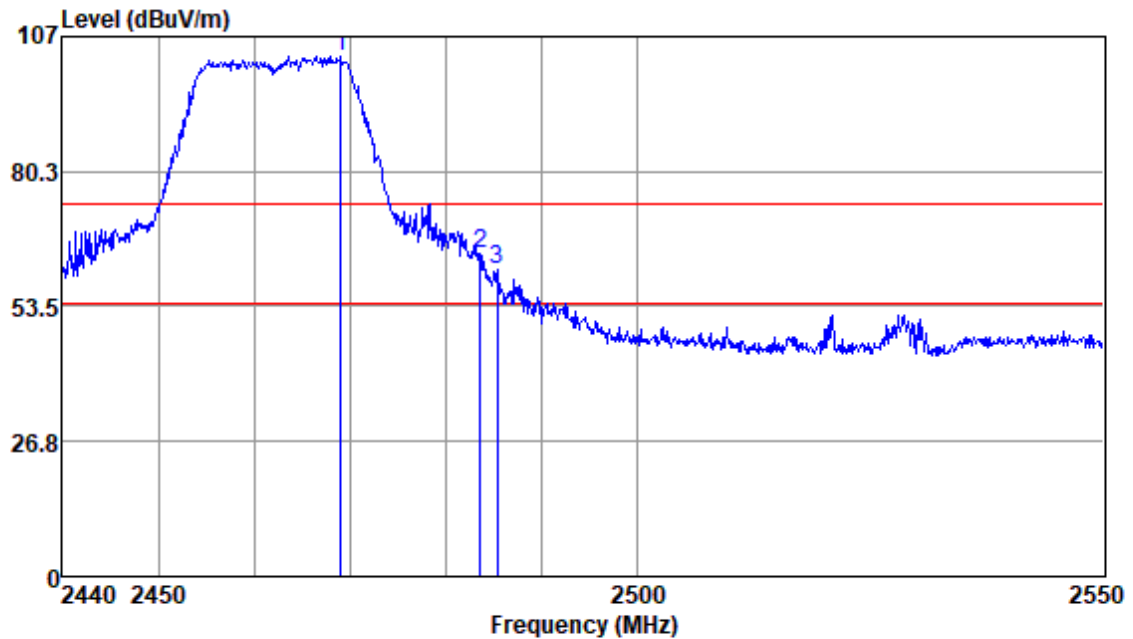
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.90	106.25	29.07	2.87	35.25	102.94	74.00	28.94	Peak
2483.50	67.27	29.11	2.88	35.26	64.00	74.00	-10.00	Peak
2485.28	64.12	29.11	2.88	35.26	60.85	74.00	-13.15	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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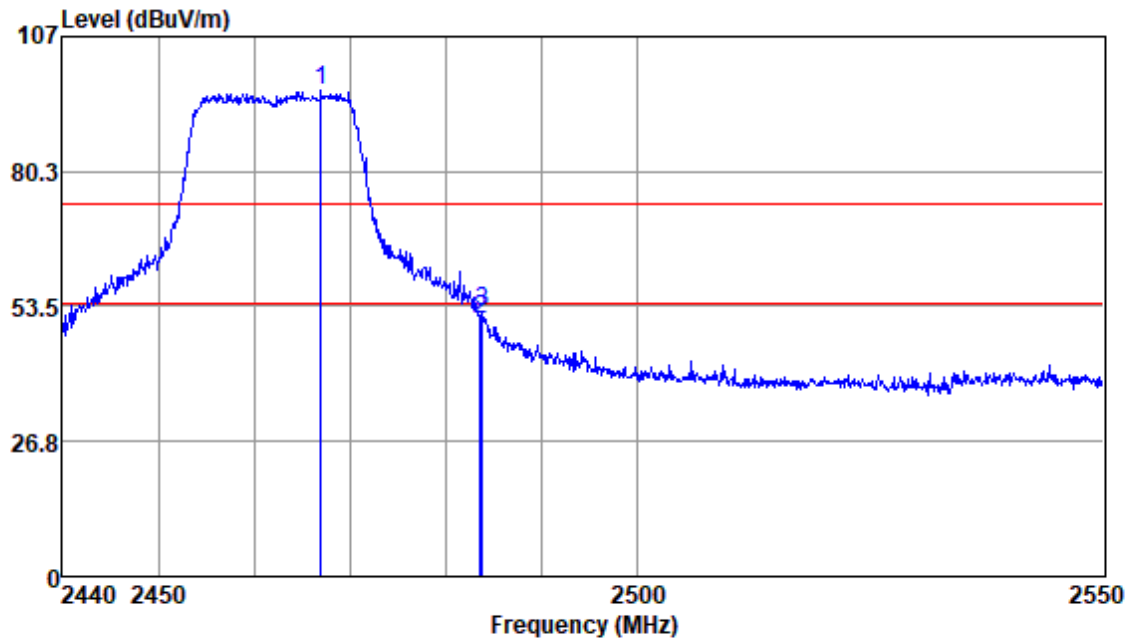
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Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.83	99.51	29.07	2.86	35.24	96.20	54.00	42.20	Average
2483.50	54.23	29.11	2.88	35.26	50.96	54.00	-3.04	Average
2483.75	55.86	29.11	2.88	35.26	52.59	54.00	-1.41	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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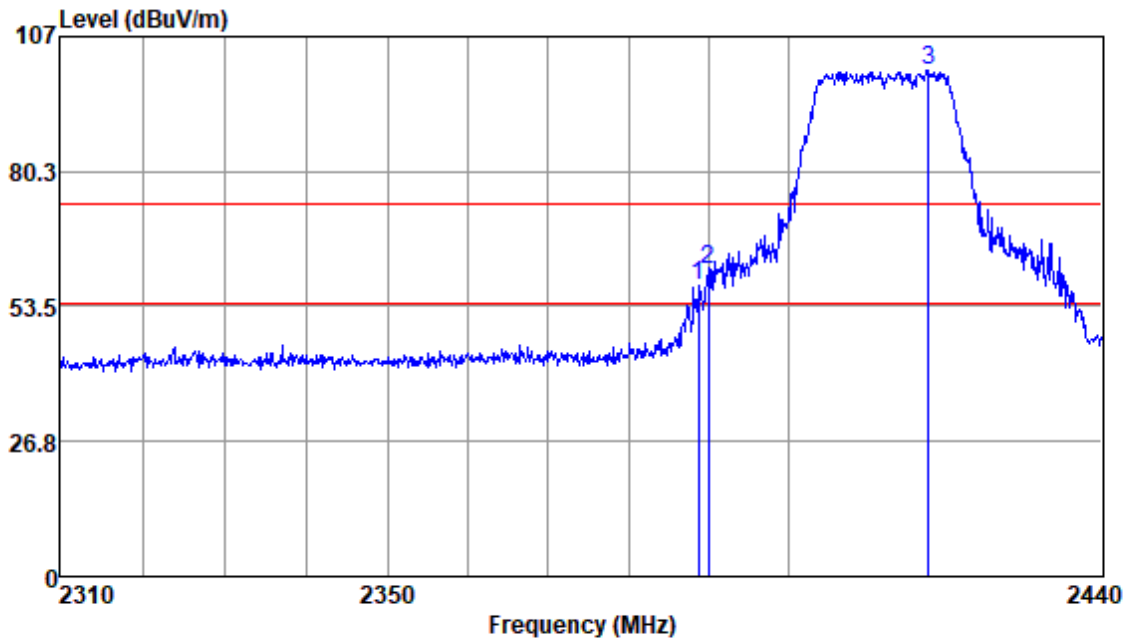
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t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2388.71	61.26	28.97	2.77	35.18	57.82	74.00	-16.18	Peak
2390.00	64.29	28.97	2.77	35.18	60.85	74.00	-13.15	Peak
2417.79	103.75	29.02	2.80	35.20	100.37	74.00	26.37	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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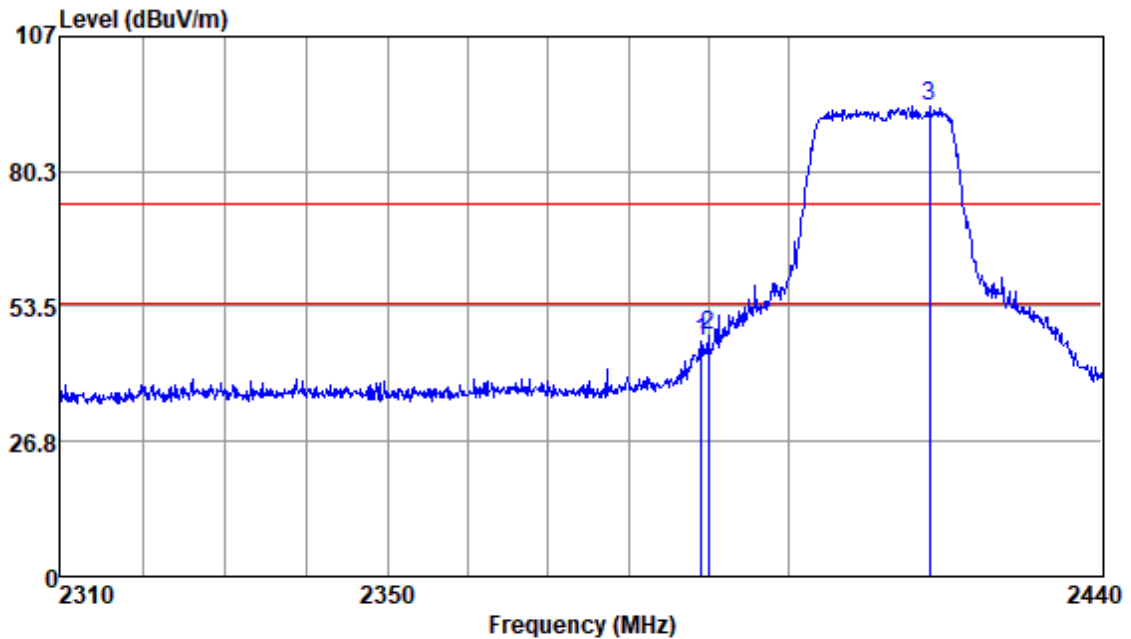
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t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.11	49.97	28.97	2.77	35.18	46.53	54.00	-7.47	Average
2390.00	51.30	28.97	2.77	35.18	47.86	54.00	-6.14	Average
2417.92	96.59	29.02	2.80	35.20	93.21	54.00	39.21	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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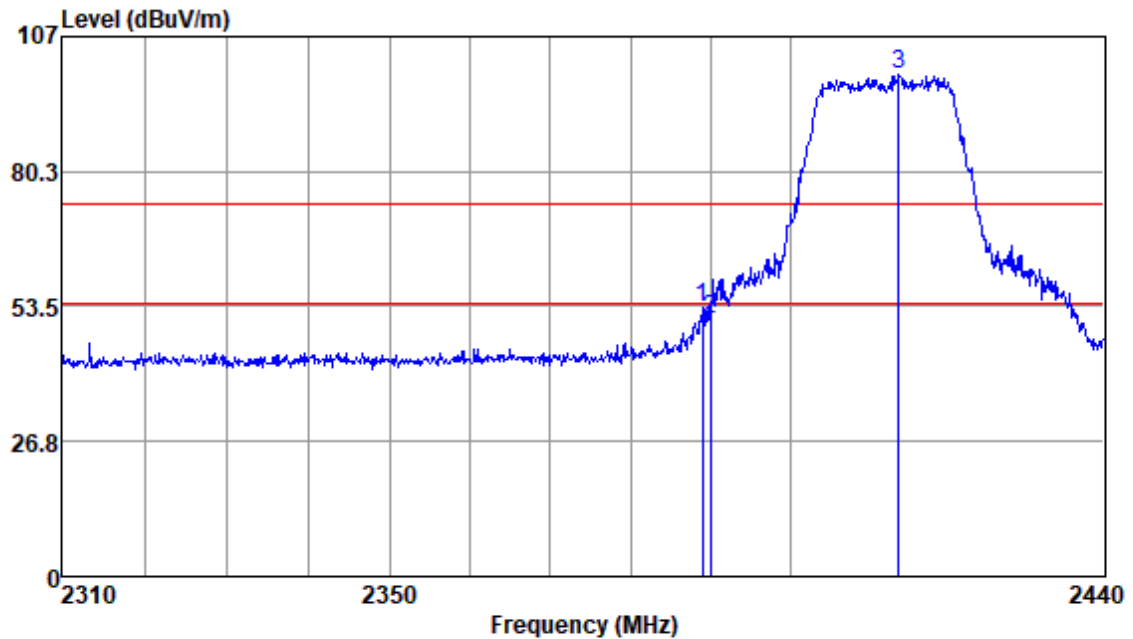
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t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2388.98	56.67	28.97	2.77	35.18	53.23	74.00	-20.77	Peak
2390.00	54.35	28.97	2.77	35.18	50.91	74.00	-23.09	Peak
2413.82	102.89	29.02	2.80	35.20	99.51	74.00	25.51	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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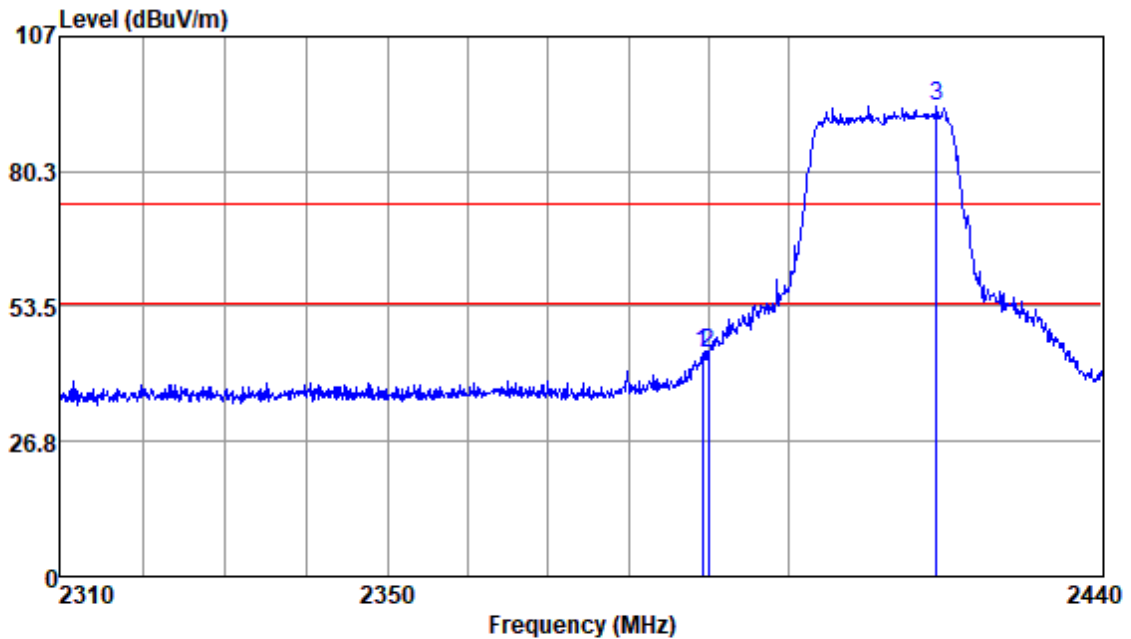
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2389.24	47.56	28.97	2.77	35.18	44.12	54.00	-9.88	Average
2390.00	47.63	28.97	2.77	35.18	44.19	54.00	-9.81	Average
2418.85	96.56	29.04	2.81	35.21	93.20	54.00	39.20	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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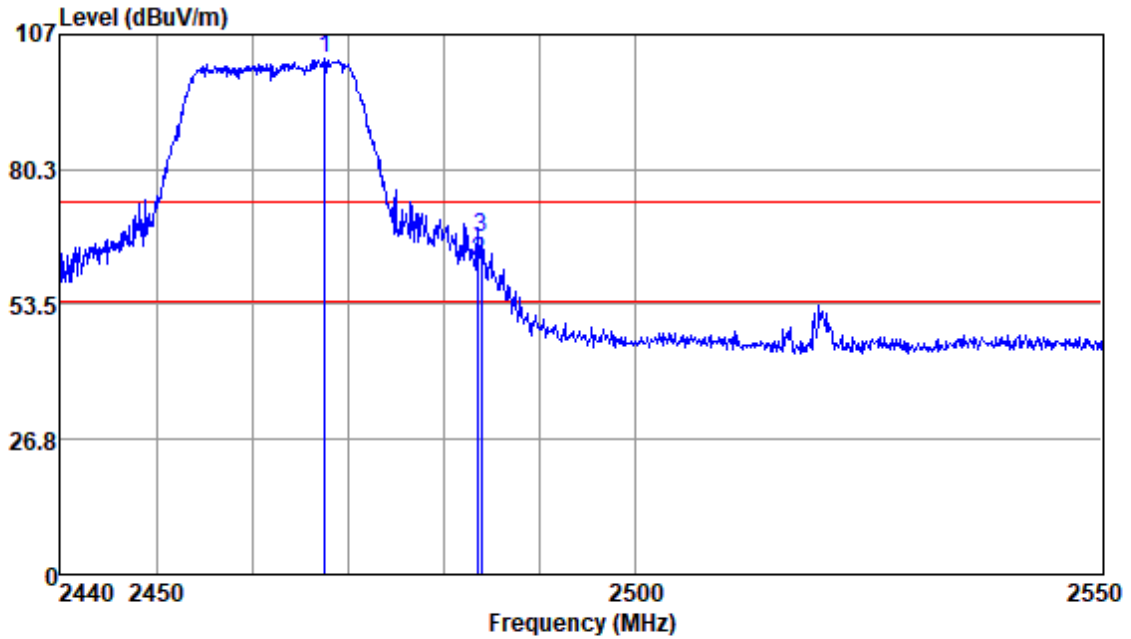
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2467.48	105.51	29.07	2.86	35.24	102.20	74.00	28.20	Peak
2483.50	65.11	29.11	2.88	35.26	61.84	74.00	-12.16	Peak
2483.86	69.82	29.11	2.88	35.26	66.55	74.00	-7.45	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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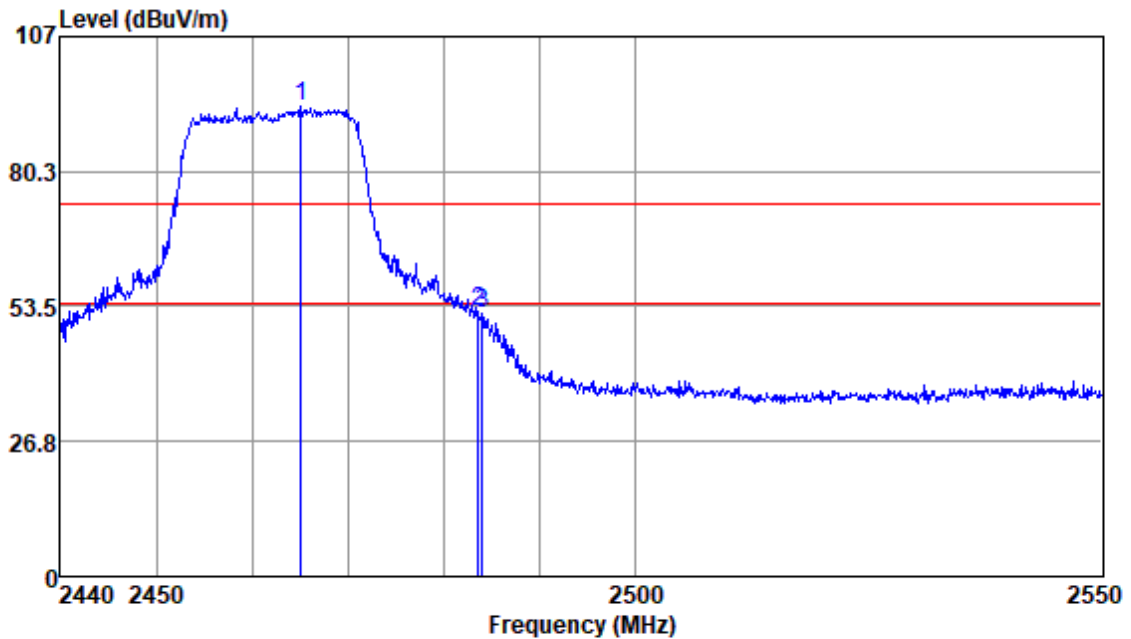
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2464.98	96.36	29.07	2.86	35.24	93.05	54.00	39.05	Average
2483.50	55.93	29.11	2.88	35.26	52.66	54.00	-1.34	Average
2483.97	55.33	29.11	2.88	35.26	52.06	54.00	-1.94	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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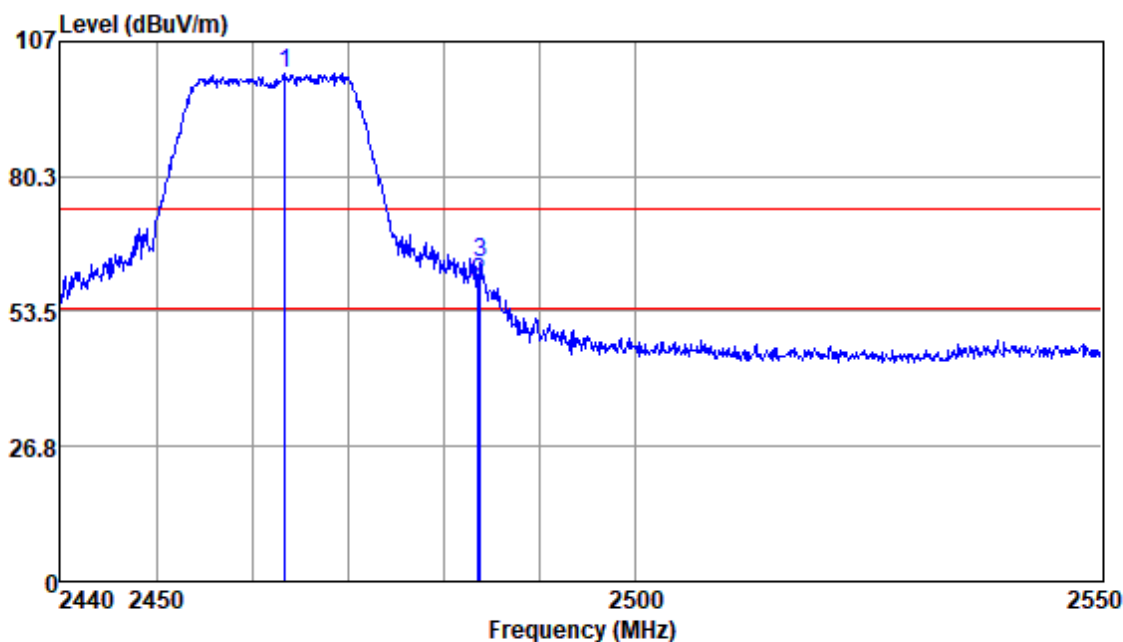
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.35	103.96	29.07	2.86	35.24	100.65	74.00	26.65	Peak
2483.50	62.30	29.11	2.88	35.26	59.03	74.00	-14.97	Peak
2483.75	66.32	29.11	2.88	35.26	63.05	74.00	-10.95	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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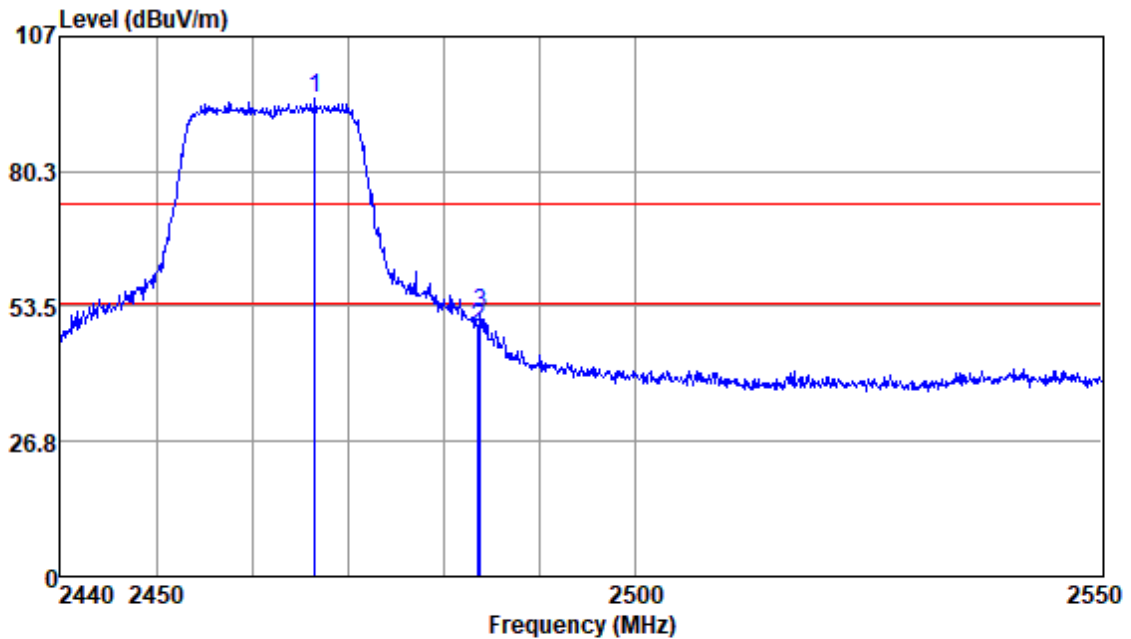
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2466.39	98.00	29.07	2.86	35.24	94.69	54.00	40.69	Average
2483.50	52.67	29.11	2.88	35.26	49.40	54.00	-4.60	Average
2483.75	55.56	29.11	2.88	35.26	52.29	54.00	-1.71	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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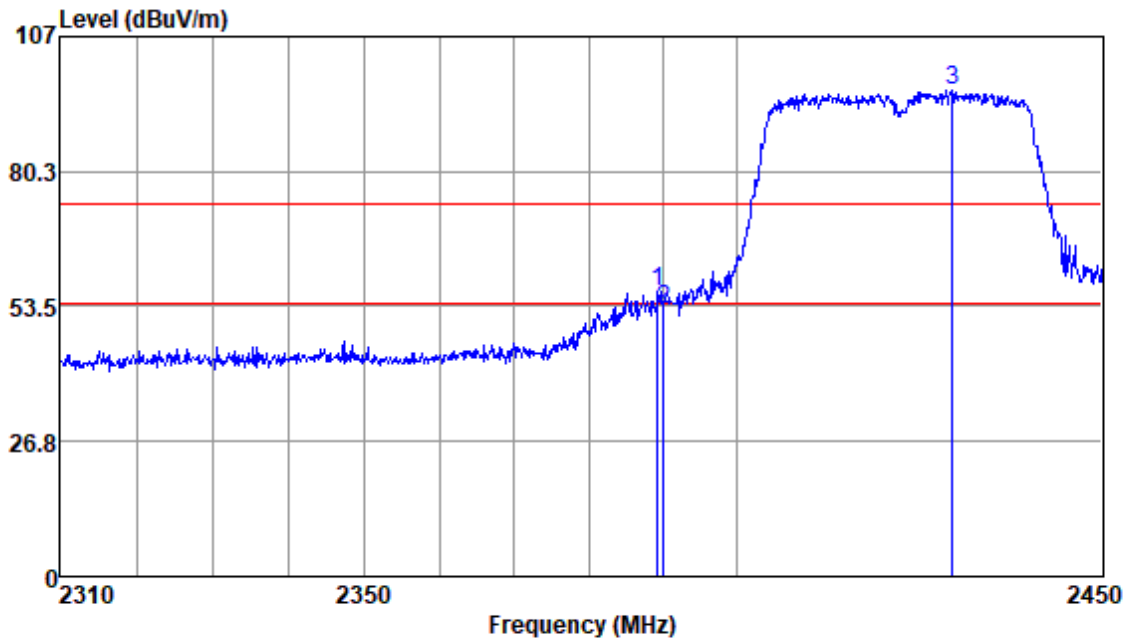
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2389.21	59.89	28.97	2.77	35.18	56.45	74.00	-17.55	Peak
2390.00	56.43	28.97	2.77	35.18	52.99	74.00	-21.01	Peak
2429.33	99.73	29.05	2.82	35.21	96.39	74.00	22.39	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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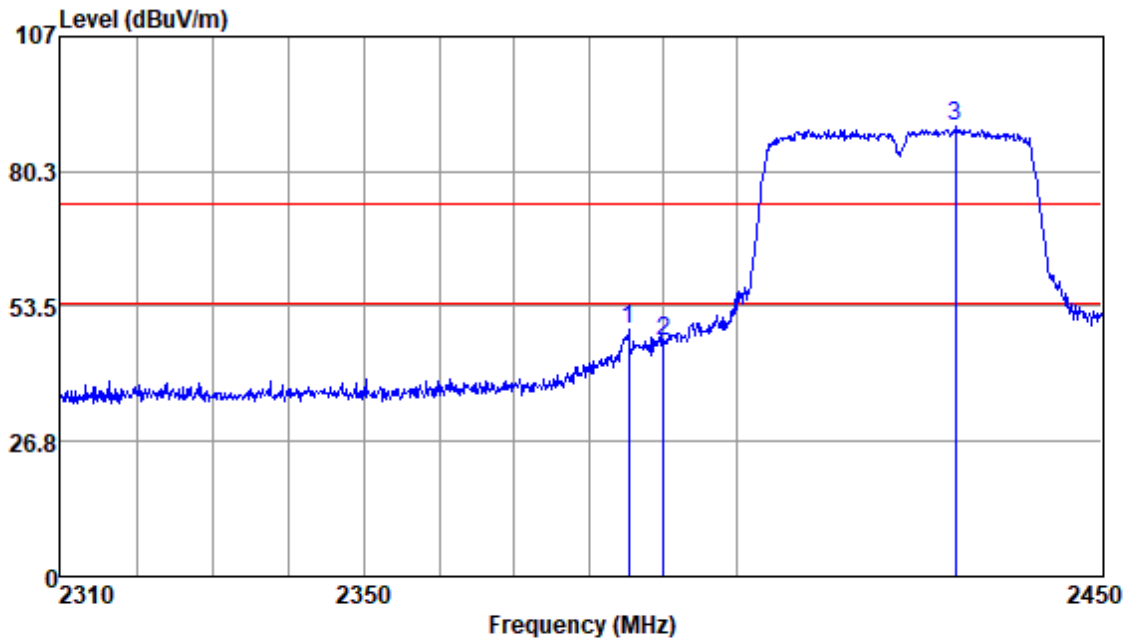
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Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2385.28	52.43	28.97	2.77	35.18	48.99	54.00	-5.01	Average
2390.00	50.15	28.97	2.77	35.18	46.71	54.00	-7.29	Average
2429.76	92.52	29.05	2.82	35.21	89.18	54.00	35.18	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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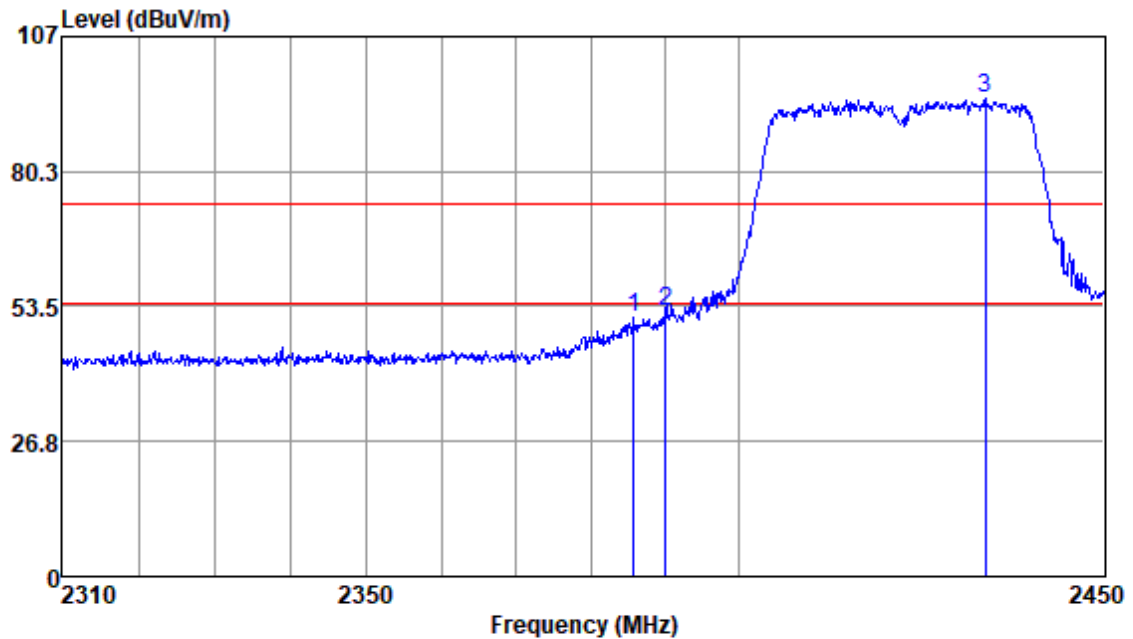
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.70	54.74	28.97	2.77	35.18	51.30	74.00	-22.70	Peak
2390.00	55.85	28.97	2.77	35.18	52.41	74.00	-21.59	Peak
2433.62	97.94	29.05	2.83	35.22	94.60	74.00	20.60	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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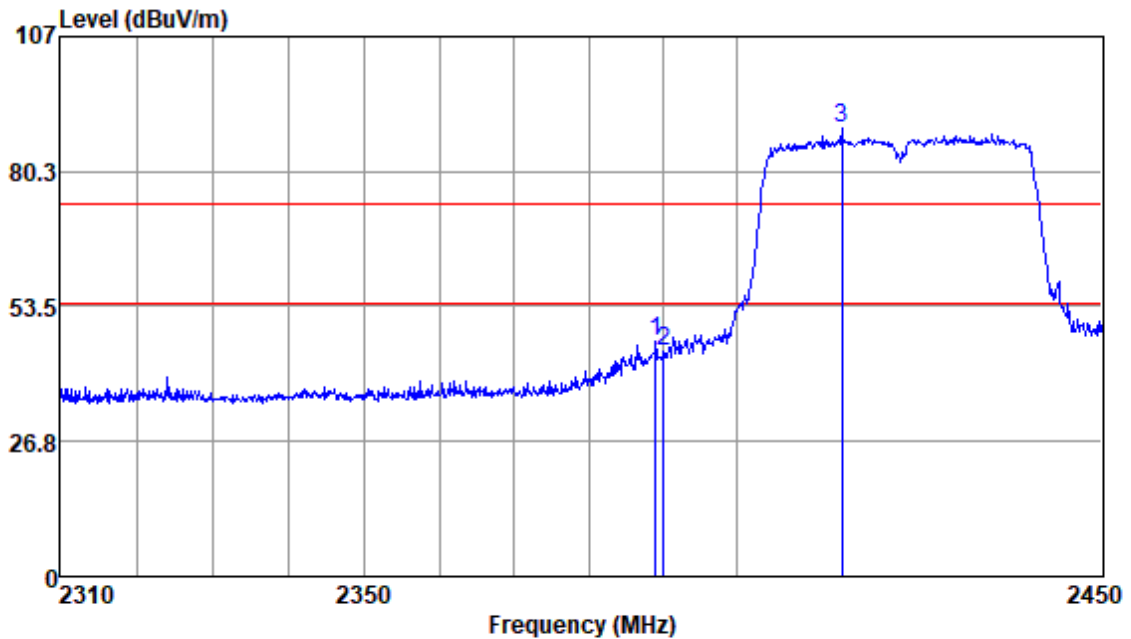
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t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2388.93	49.99	28.97	2.77	35.18	46.55	54.00	-7.45	Average
2390.00	47.98	28.97	2.77	35.18	44.54	54.00	-9.46	Average
2414.22	92.18	29.02	2.80	35.20	88.80	54.00	34.80	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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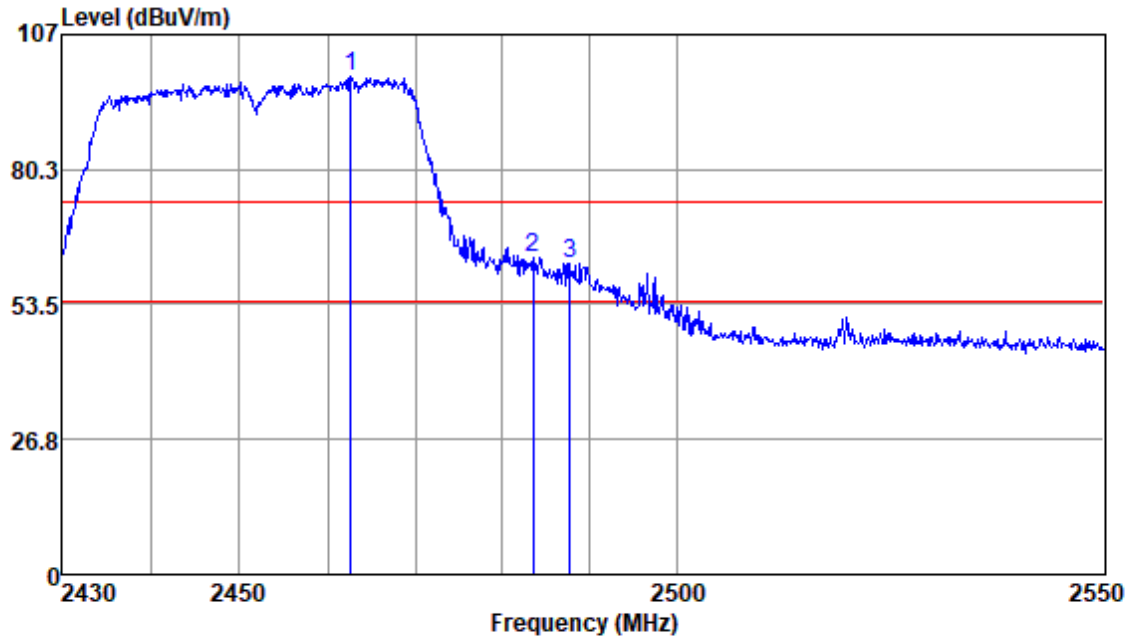
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2462.66	101.92	29.07	2.86	35.24	98.61	74.00	24.61	Peak
2483.50	65.94	29.11	2.88	35.26	62.67	74.00	-11.33	Peak
2487.72	65.04	29.11	2.88	35.26	61.77	74.00	-12.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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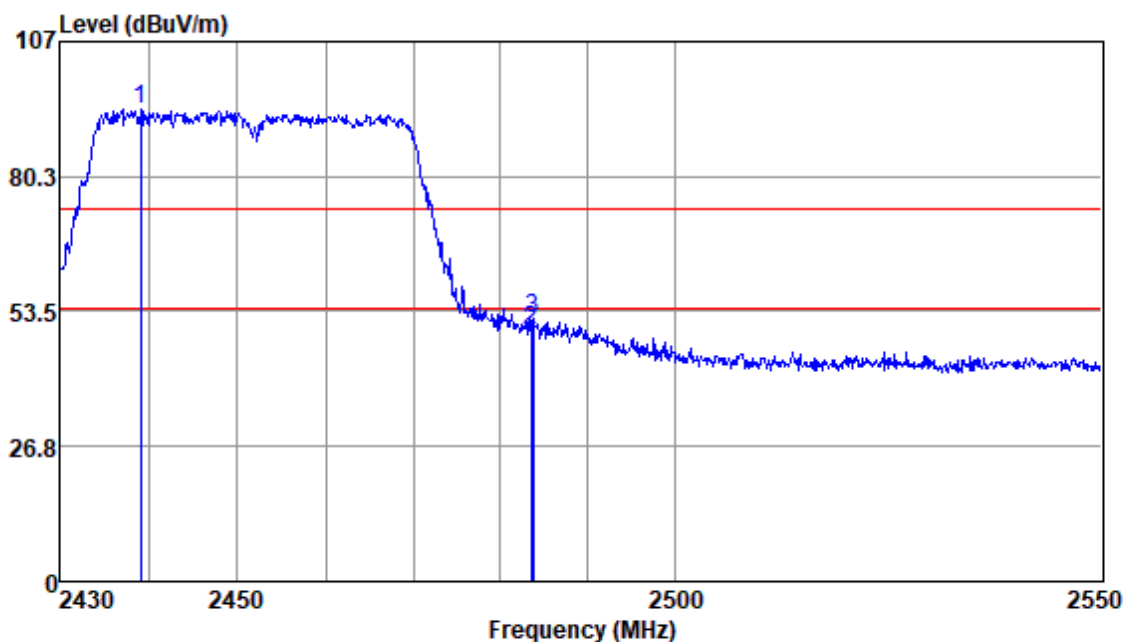
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2439.04	96.84	29.05	2.83	35.22	93.50	54.00	39.50	Average
2483.50	53.18	29.11	2.88	35.26	49.91	54.00	-4.09	Average
2483.76	55.21	29.11	2.88	35.26	51.94	54.00	-2.06	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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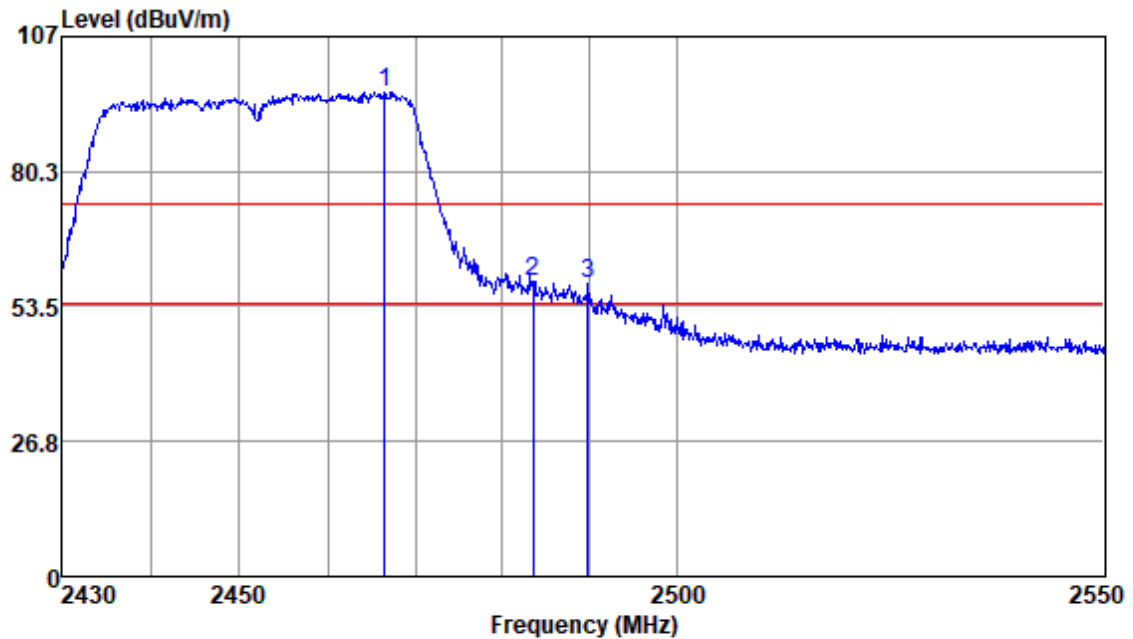
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.46	99.44	29.07	2.86	35.24	96.13	74.00	22.13	Peak
2483.50	61.58	29.11	2.88	35.26	58.31	74.00	-15.69	Peak
2489.76	61.32	29.13	2.89	35.26	58.08	74.00	-15.92	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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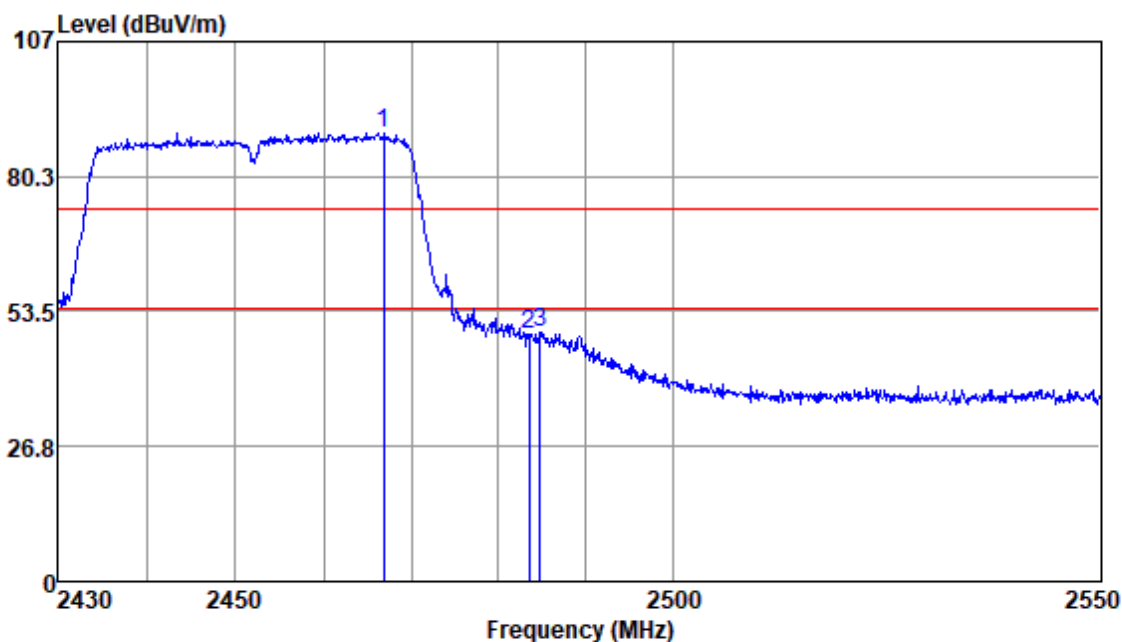
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.82	92.14	29.07	2.86	35.24	88.83	54.00	34.83	Average
2483.50	52.14	29.11	2.88	35.26	48.87	54.00	-5.13	Average
2484.72	52.75	29.11	2.88	35.26	49.48	54.00	-4.52	Average

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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6.4 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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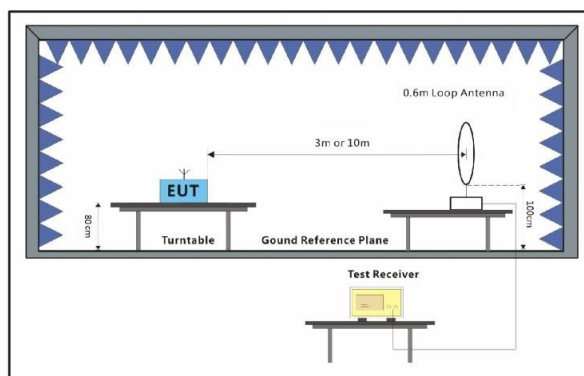
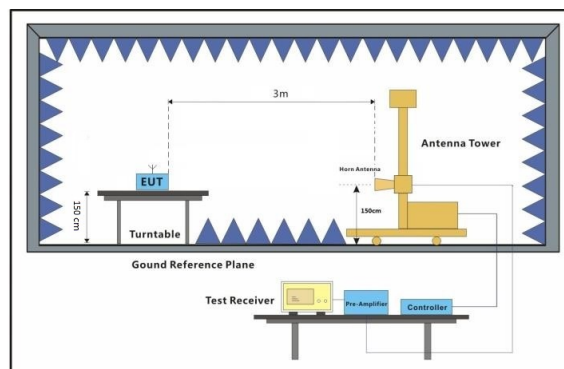
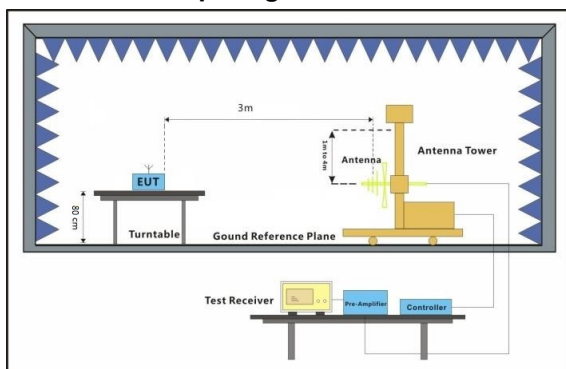
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

6.4.2 Test Setup Diagram



6.4.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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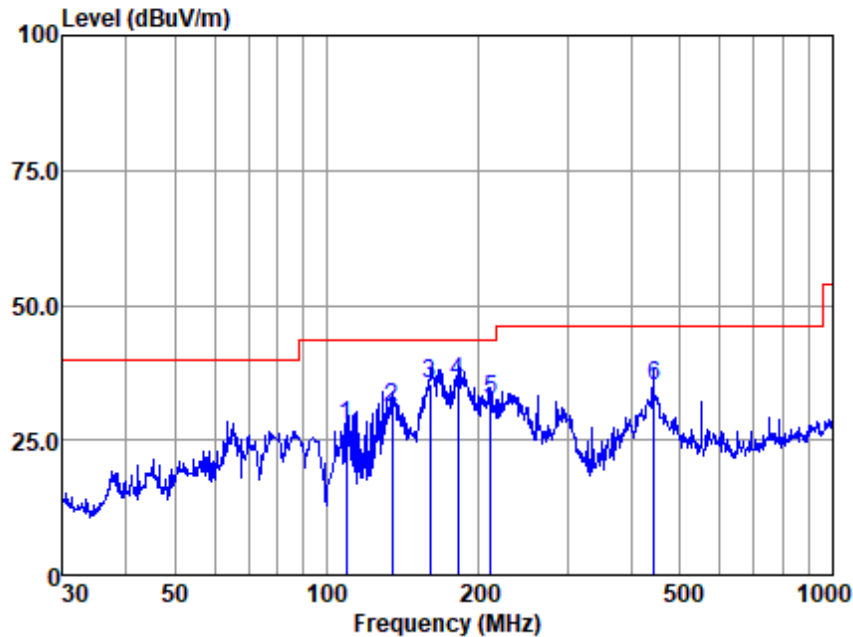
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Below 1GHz

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL

EUT/Project :8377CR

Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	109.412	47.68	10.00	1.56	31.59	27.65	43.50	-15.85	QP
2	134.559	48.74	12.13	1.76	31.70	30.93	43.50	-12.57	QP
3	159.784	51.62	13.20	1.92	31.22	35.52	43.50	-7.98	QP
4	181.920	53.76	11.54	2.09	31.68	35.71	43.50	-7.79	QP
5	210.786	51.80	9.77	2.31	31.28	32.60	43.50	-10.90	QP
6	443.294	46.18	16.75	3.31	31.08	35.16	46.00	-10.84	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



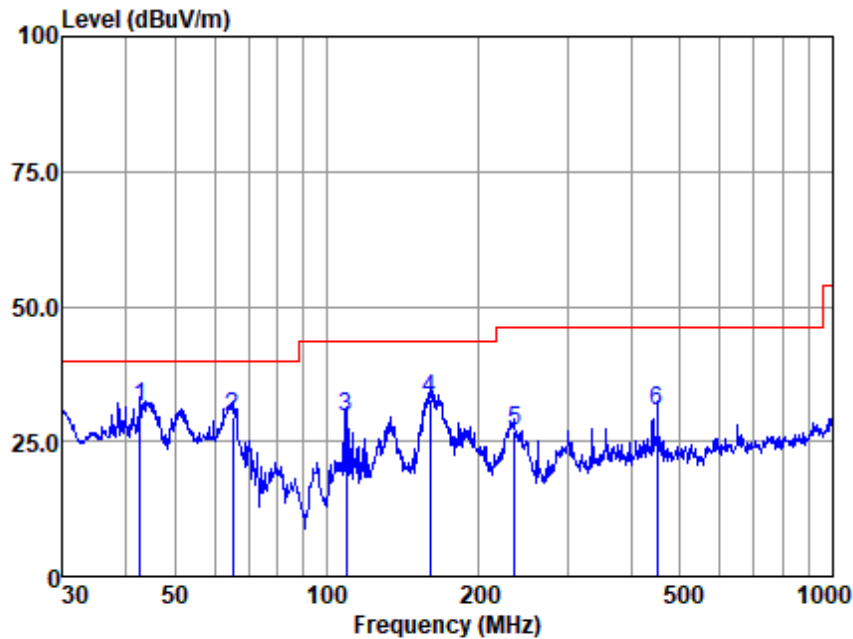
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中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL

EUT/Project :8377CR

Test mode :a

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.600	49.20	13.36	0.91	32.09	31.38	40.00	-8.62	QP
2	65.114	47.24	12.37	1.17	31.42	29.36	40.00	-10.64	QP
3	109.412	49.49	10.00	1.56	31.59	29.46	43.50	-14.04	QP
4	159.784	48.92	13.20	1.92	31.22	32.82	43.50	-10.68	QP
5	234.991	45.23	10.44	2.49	31.10	27.06	46.00	-18.94	QP
6	451.135	41.65	16.92	3.34	31.32	30.59	46.00	-15.41	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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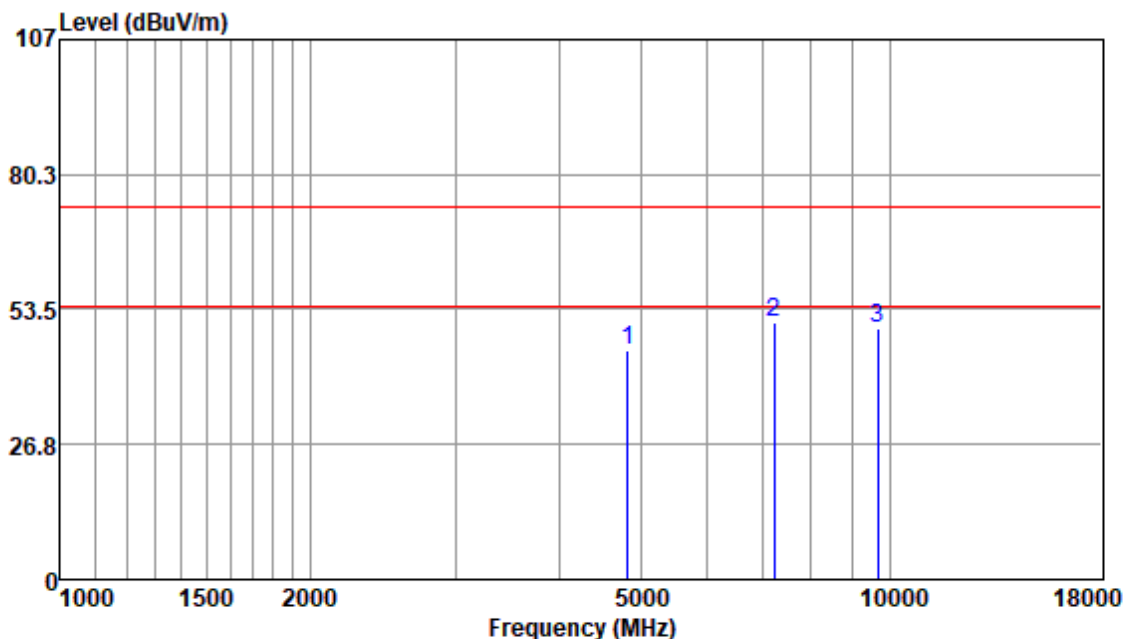
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Testing Center (EMC Lab)

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t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	43.86	33.78	4.46	36.79	45.31	74.00	-28.69	Peak
7236.00	44.17	36.35	5.76	35.50	50.78	74.00	-23.22	Peak
9648.00	38.97	37.69	6.53	33.56	49.63	74.00	-24.37	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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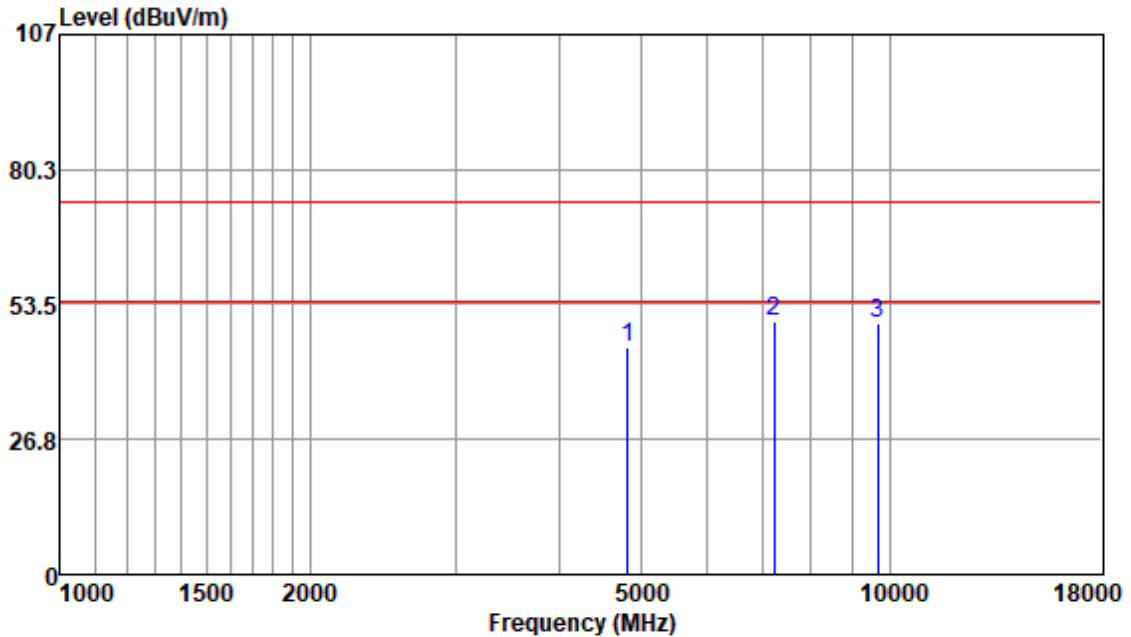
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	43.38	33.78	4.46	36.79	44.83	74.00	-29.17	Peak
7236.00	43.71	36.35	5.76	35.50	50.32	74.00	-23.68	Peak
9648.00	39.11	37.69	6.53	33.56	49.77	74.00	-24.23	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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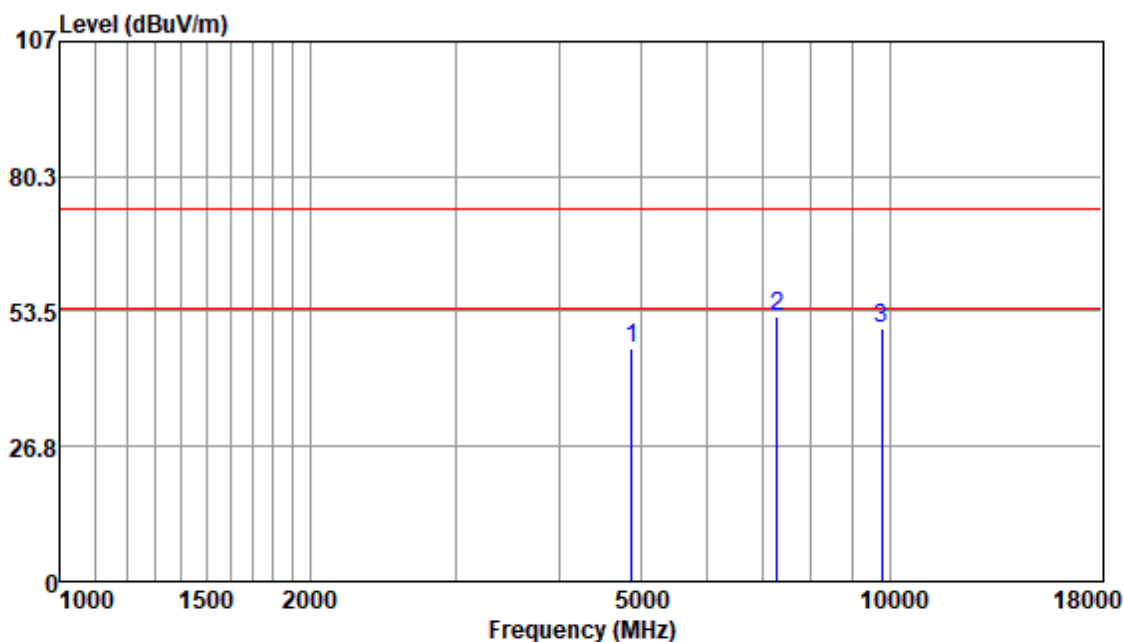
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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	44.64	33.93	4.47	36.81	46.23	74.00	-27.77	Peak
7311.00	45.51	36.47	5.83	35.44	52.37	74.00	-21.63	Peak
9748.00	39.38	37.68	6.50	33.50	50.06	74.00	-23.94	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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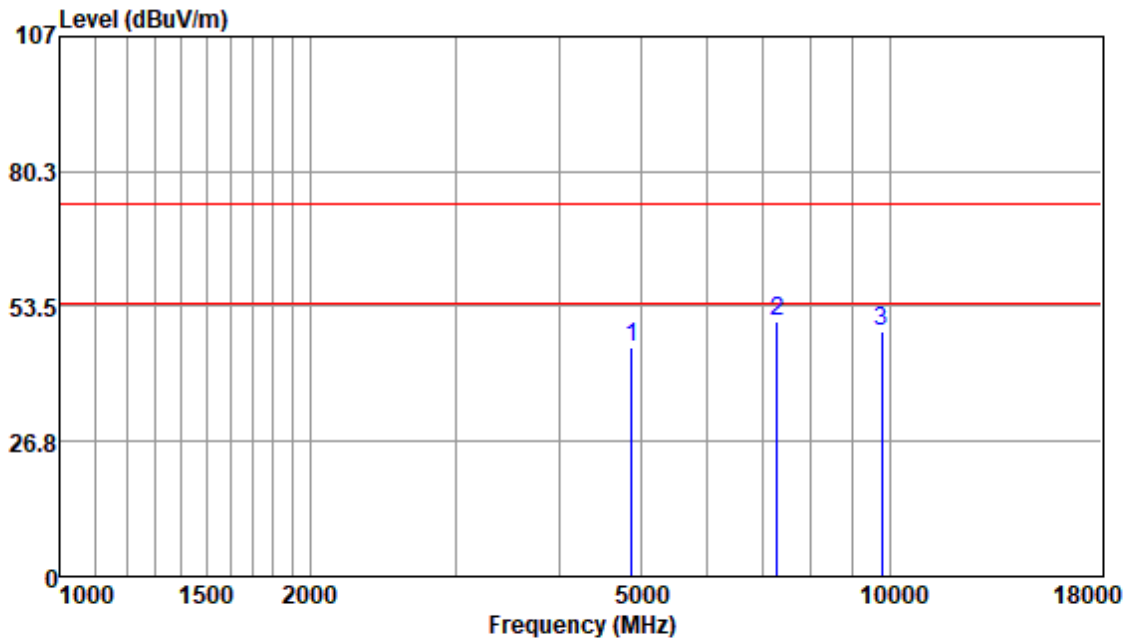
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	43.81	33.93	4.47	36.81	45.40	74.00	-28.60	Peak
7311.00	43.71	36.47	5.83	35.44	50.57	74.00	-23.43	Peak
9748.00	37.86	37.68	6.50	33.50	48.54	74.00	-25.46	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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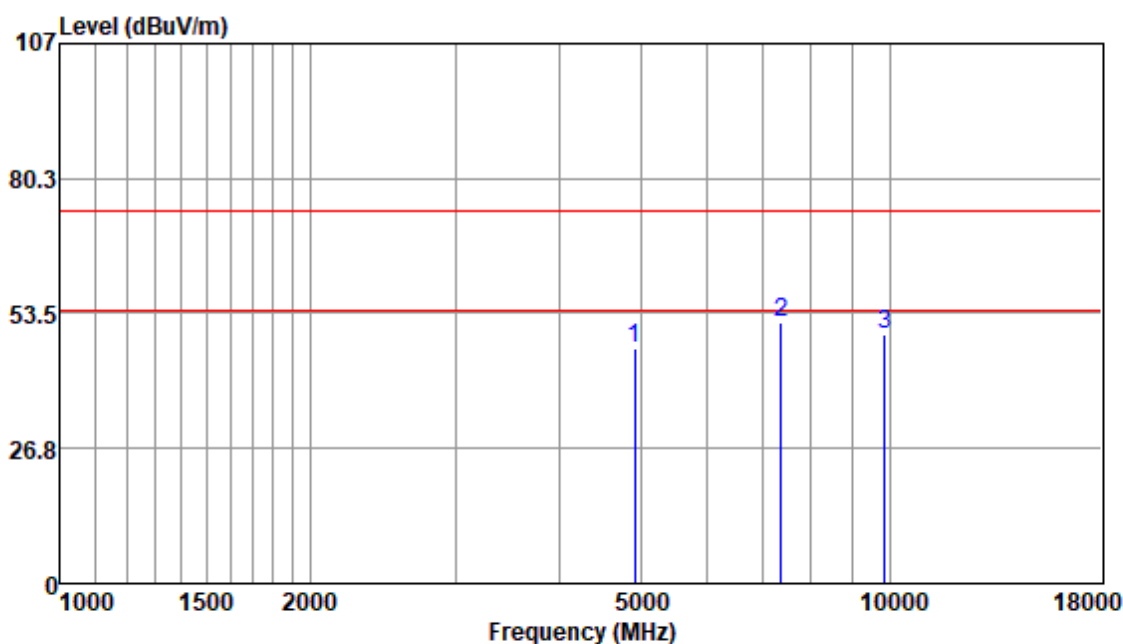
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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	44.95	33.98	4.48	36.82	46.59	74.00	-27.41	Peak
7386.00	44.83	36.48	5.92	35.37	51.86	74.00	-22.14	Peak
9848.00	38.63	37.56	6.49	33.45	49.23	74.00	-24.77	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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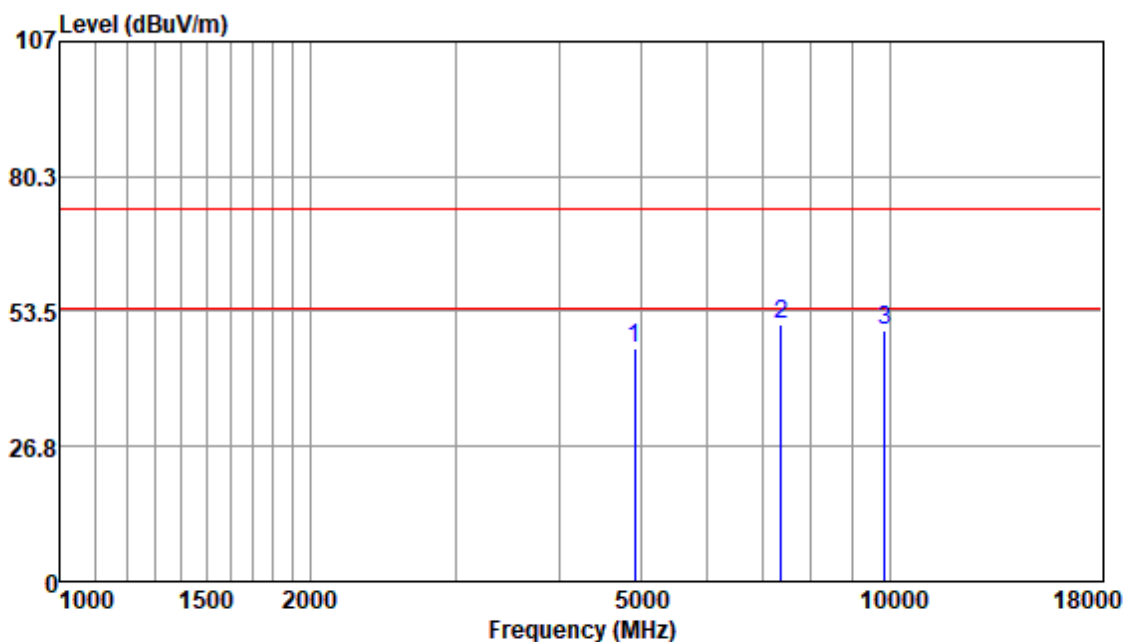
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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	44.55	33.98	4.48	36.82	46.19	74.00	-27.81	Peak
7386.00	43.89	36.48	5.92	35.37	50.92	74.00	-23.08	Peak
9848.00	39.13	37.56	6.49	33.45	49.73	74.00	-24.27	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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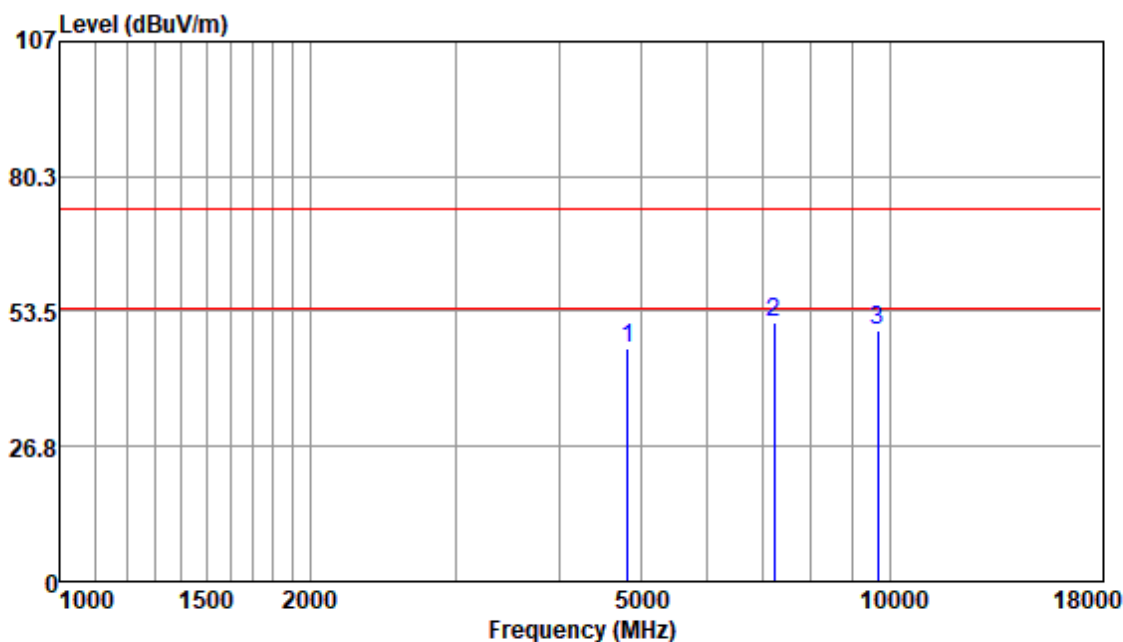
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	44.61	33.78	4.46	36.79	46.06	74.00	-27.94	Peak
7236.00	44.59	36.35	5.76	35.50	51.20	74.00	-22.80	Peak
9648.00	39.01	37.69	6.53	33.56	49.67	74.00	-24.33	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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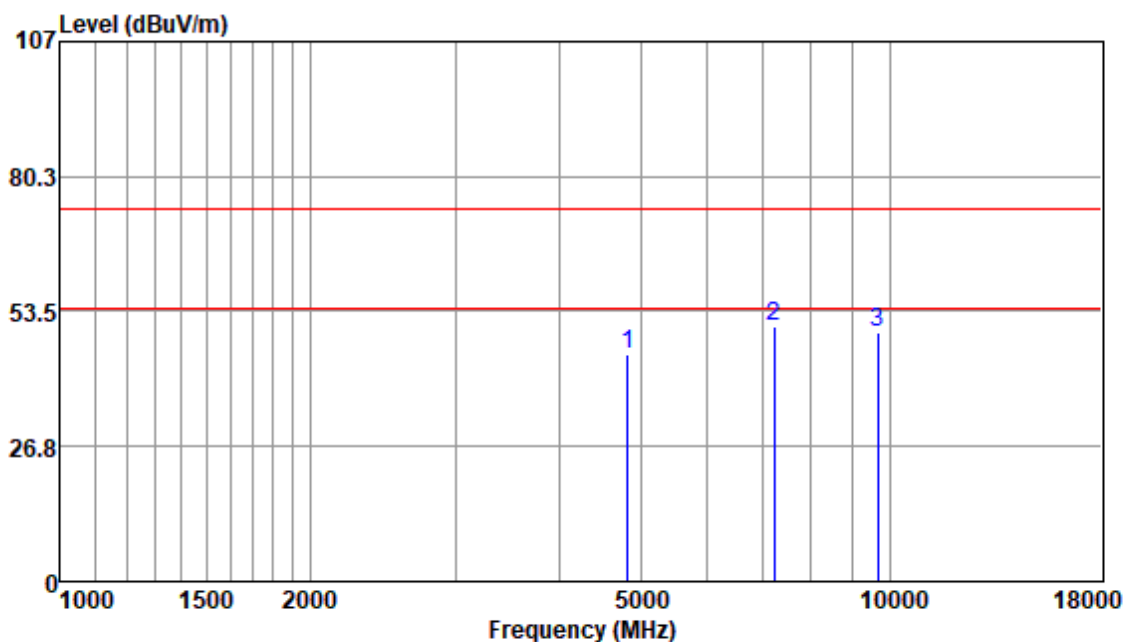
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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	43.71	33.78	4.46	36.79	45.16	74.00	-28.84	Peak
7236.00	43.83	36.35	5.76	35.50	50.44	74.00	-23.56	Peak
9648.00	38.72	37.69	6.53	33.56	49.38	74.00	-24.62	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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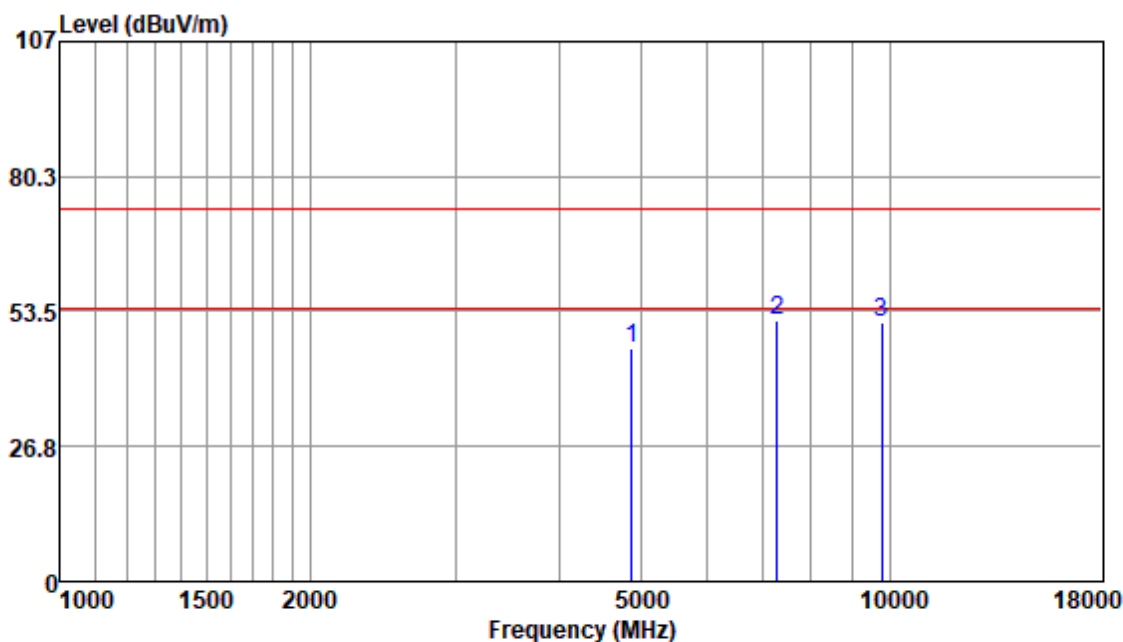
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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	44.57	33.93	4.47	36.81	46.16	74.00	-27.84	Peak
7311.00	45.04	36.47	5.83	35.44	51.90	74.00	-22.10	Peak
9748.00	40.49	37.68	6.50	33.50	51.17	74.00	-22.83	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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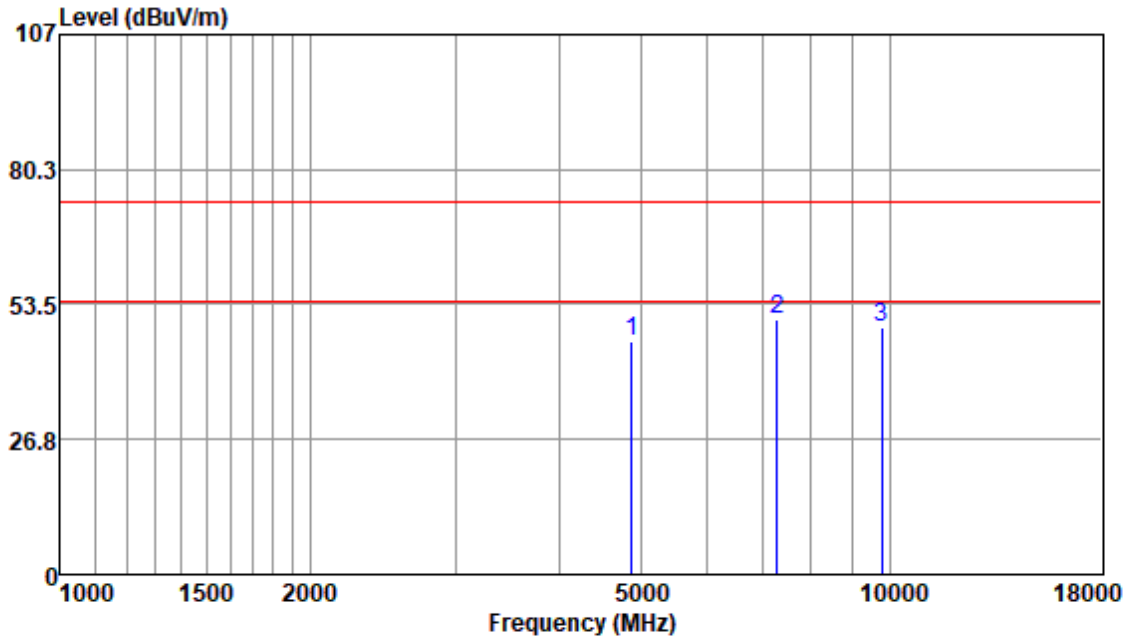
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中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	44.45	33.93	4.47	36.81	46.04	74.00	-27.96	Peak
7311.00	43.68	36.47	5.83	35.44	50.54	74.00	-23.46	Peak
9748.00	38.10	37.68	6.50	33.50	48.78	74.00	-25.22	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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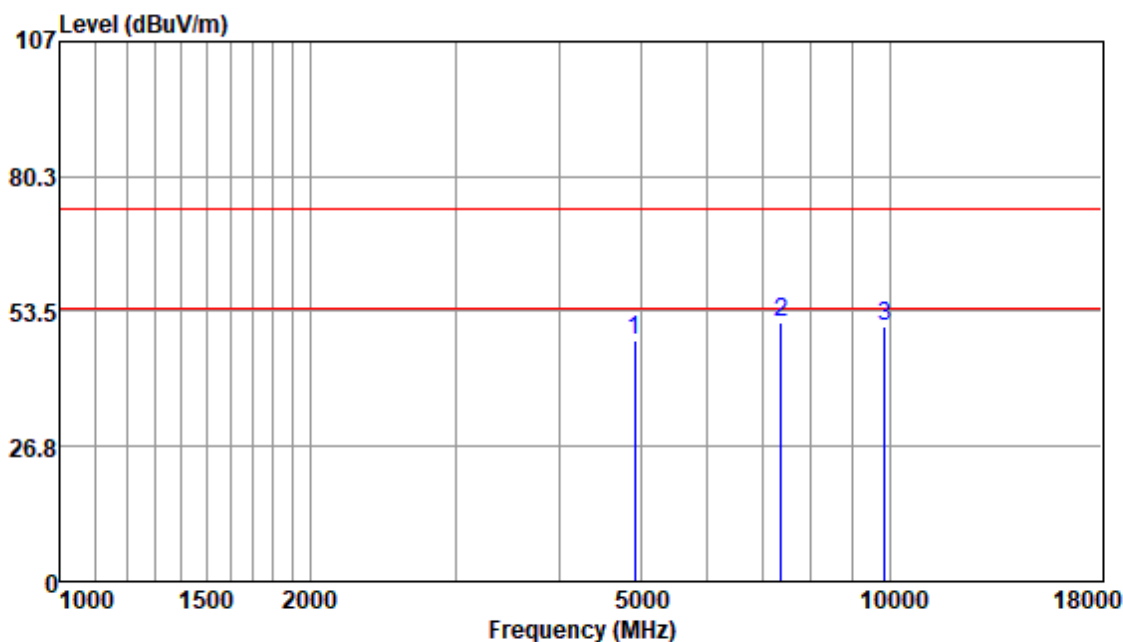
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t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	46.09	33.98	4.48	36.82	47.73	74.00	-26.27	Peak
7386.00	44.46	36.48	5.92	35.37	51.49	74.00	-22.51	Peak
9848.00	40.09	37.56	6.49	33.45	50.69	74.00	-23.31	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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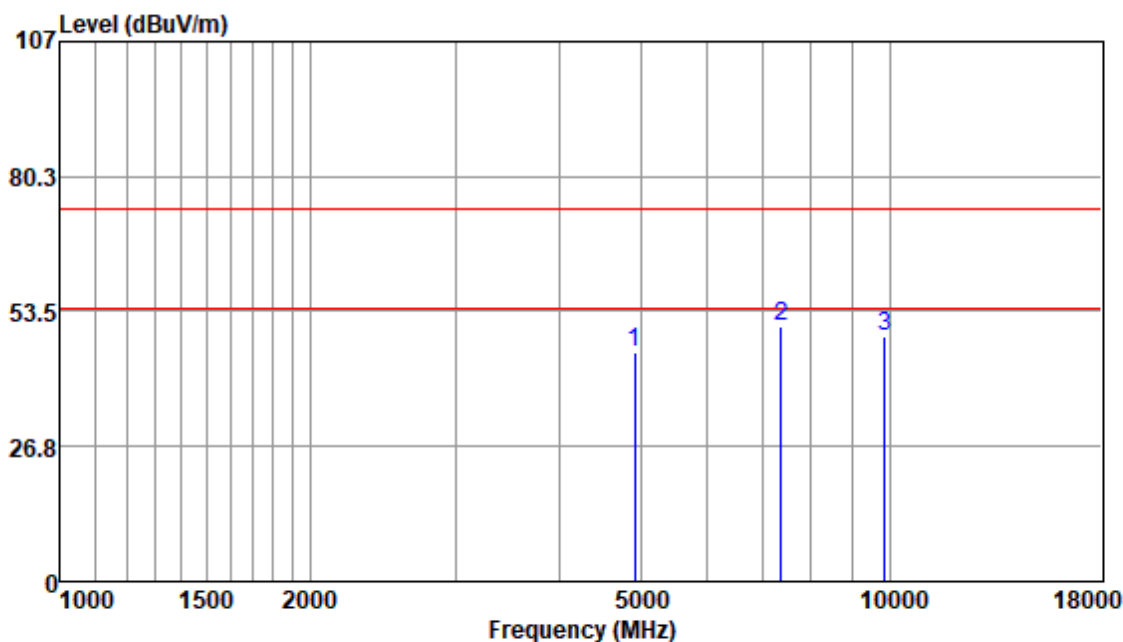
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t(86-21) 61915666 f(86-21) 61915678 e.sgs.china@sgs.com

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	43.88	33.98	4.48	36.82	45.52	74.00	-28.48	Peak
7386.00	43.59	36.48	5.92	35.37	50.62	74.00	-23.38	Peak
9848.00	38.03	37.56	6.49	33.45	48.63	74.00	-25.37	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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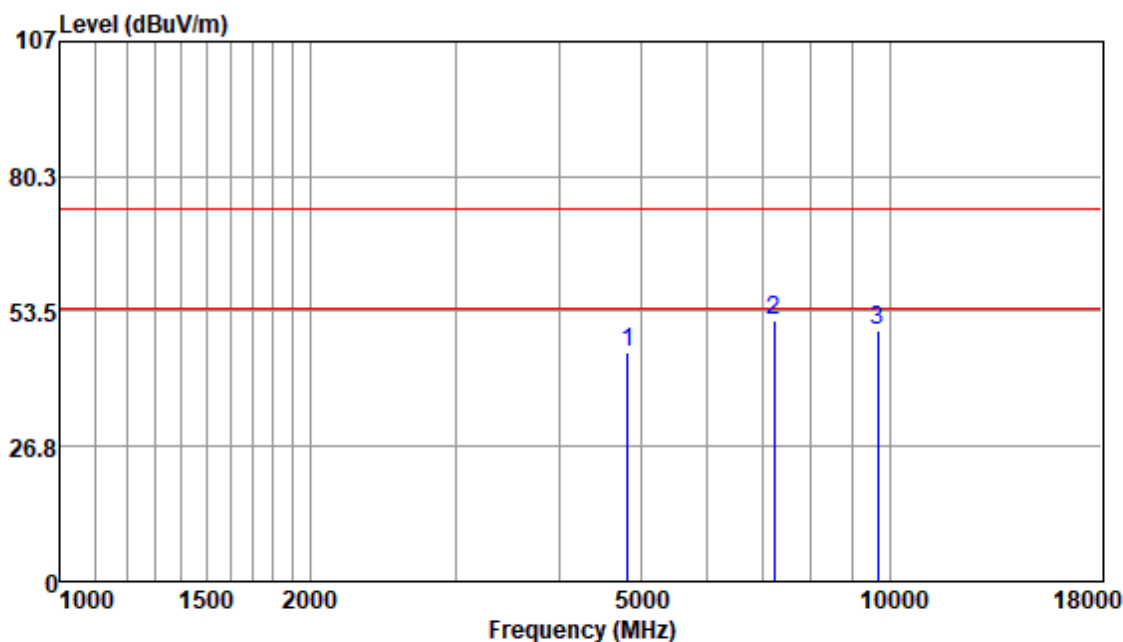
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	43.90	33.78	4.46	36.79	45.35	74.00	-28.65	Peak
7236.00	45.15	36.35	5.76	35.50	51.76	74.00	-22.24	Peak
9648.00	38.96	37.69	6.53	33.56	49.62	74.00	-24.38	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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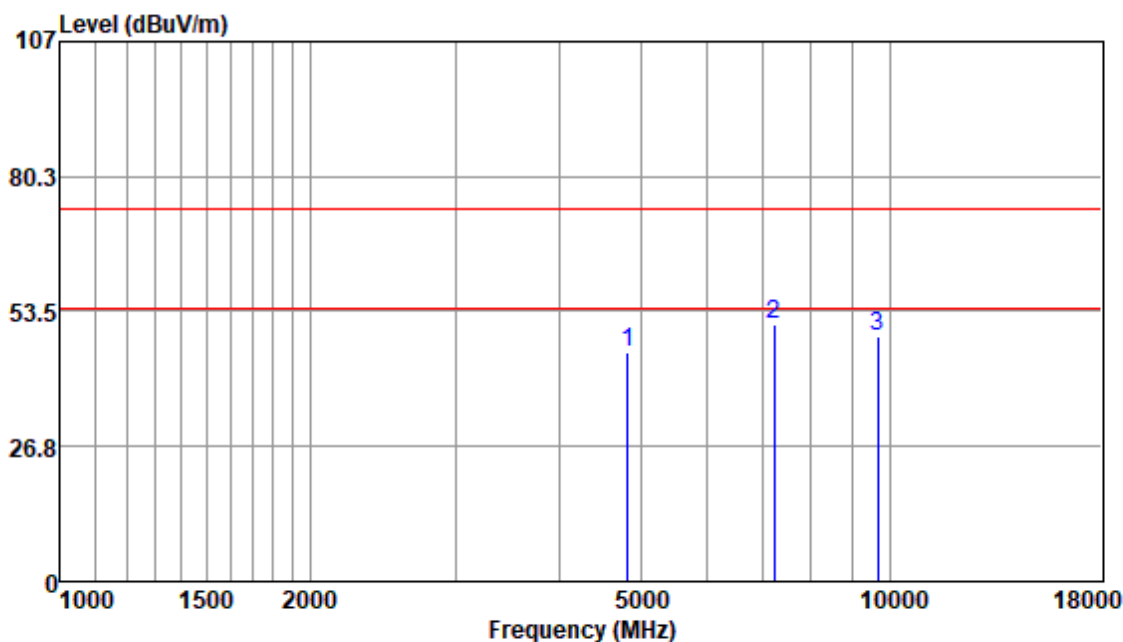
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	44.01	33.78	4.46	36.79	45.46	74.00	-28.54	Peak
7236.00	44.35	36.35	5.76	35.50	50.96	74.00	-23.04	Peak
9648.00	38.04	37.69	6.53	33.56	48.70	74.00	-25.30	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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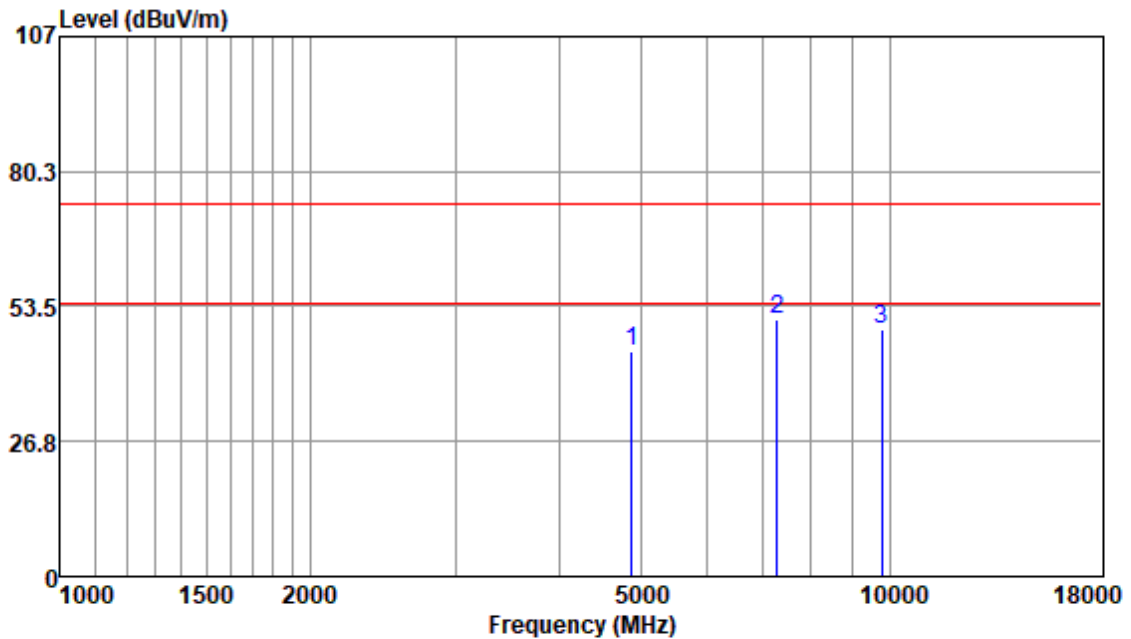
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	43.12	33.93	4.47	36.81	44.71	74.00	-29.29	Peak
7311.00	44.21	36.47	5.83	35.44	51.07	74.00	-22.93	Peak
9748.00	38.23	37.68	6.50	33.50	48.91	74.00	-25.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



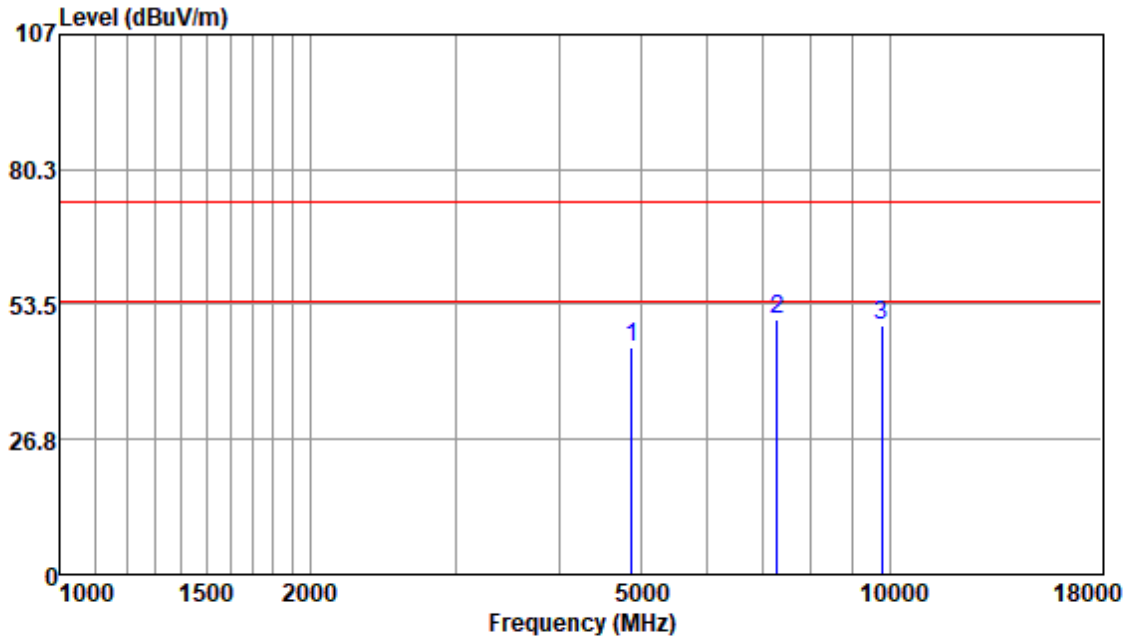
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	43.58	33.93	4.47	36.81	45.17	74.00	-28.83	Peak
7311.00	43.61	36.47	5.83	35.44	50.47	74.00	-23.53	Peak
9748.00	38.79	37.68	6.50	33.50	49.47	74.00	-24.53	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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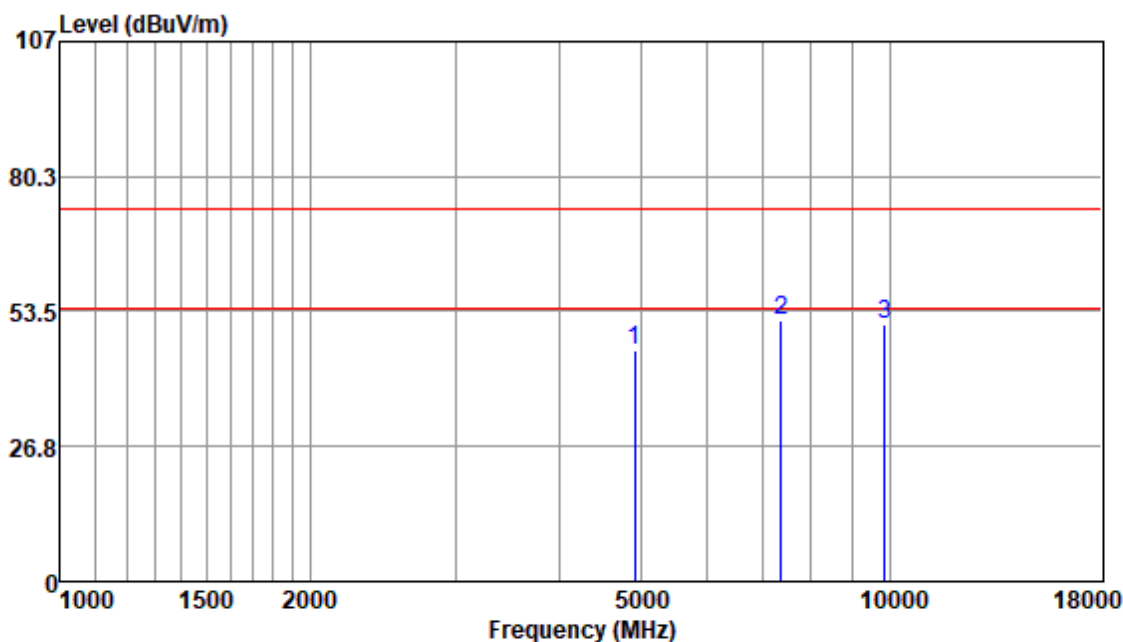
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	44.23	33.98	4.48	36.82	45.87	74.00	-28.13	Peak
7386.00	44.58	36.48	5.92	35.37	51.61	74.00	-22.39	Peak
9848.00	40.23	37.56	6.49	33.45	50.83	74.00	-23.17	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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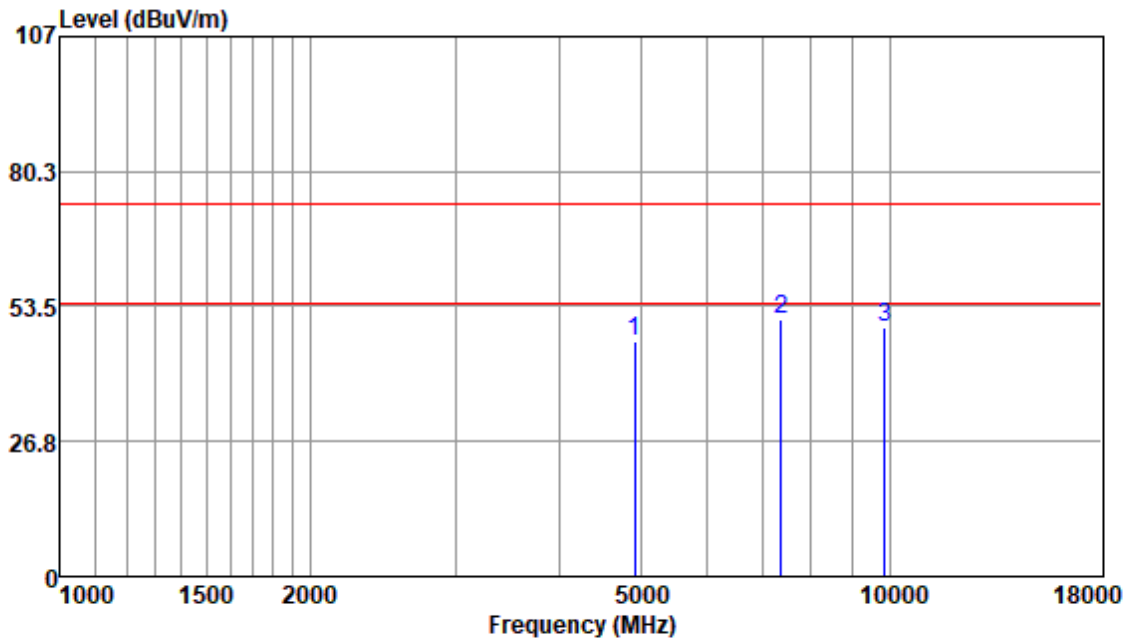
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	44.87	33.98	4.48	36.82	46.51	74.00	-27.49	Peak
7386.00	43.99	36.48	5.92	35.37	51.02	74.00	-22.98	Peak
9848.00	38.84	37.56	6.49	33.45	49.44	74.00	-24.56	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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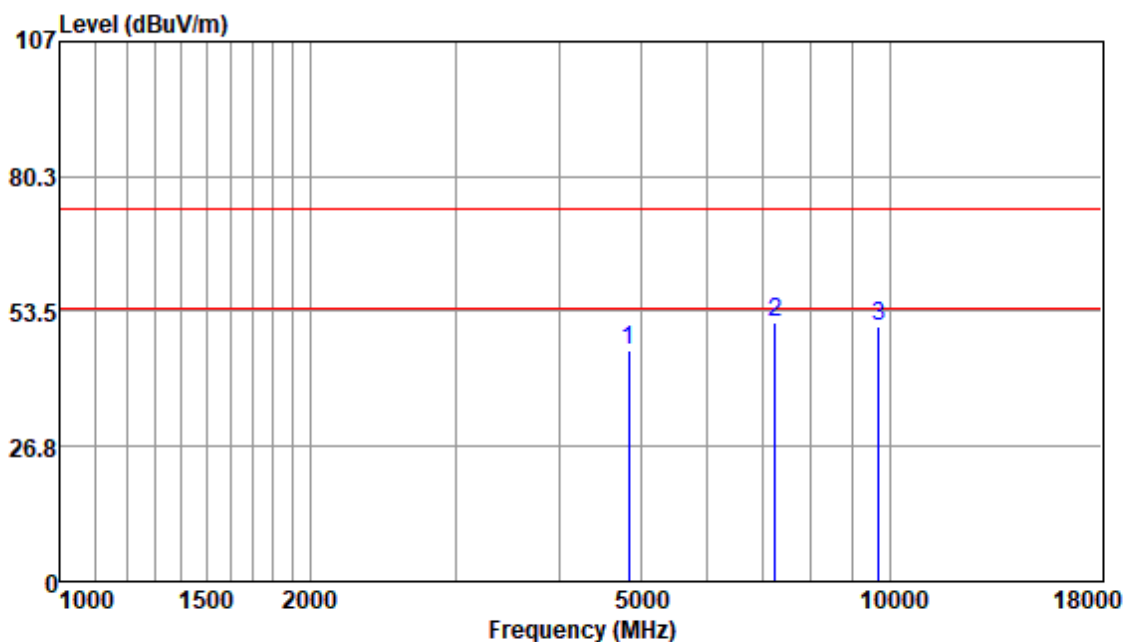
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	44.34	33.89	4.47	36.80	45.90	74.00	-28.10	Peak
7266.00	44.53	36.39	5.78	35.48	51.22	74.00	-22.78	Peak
9688.00	39.75	37.79	6.52	33.53	50.53	74.00	-23.47	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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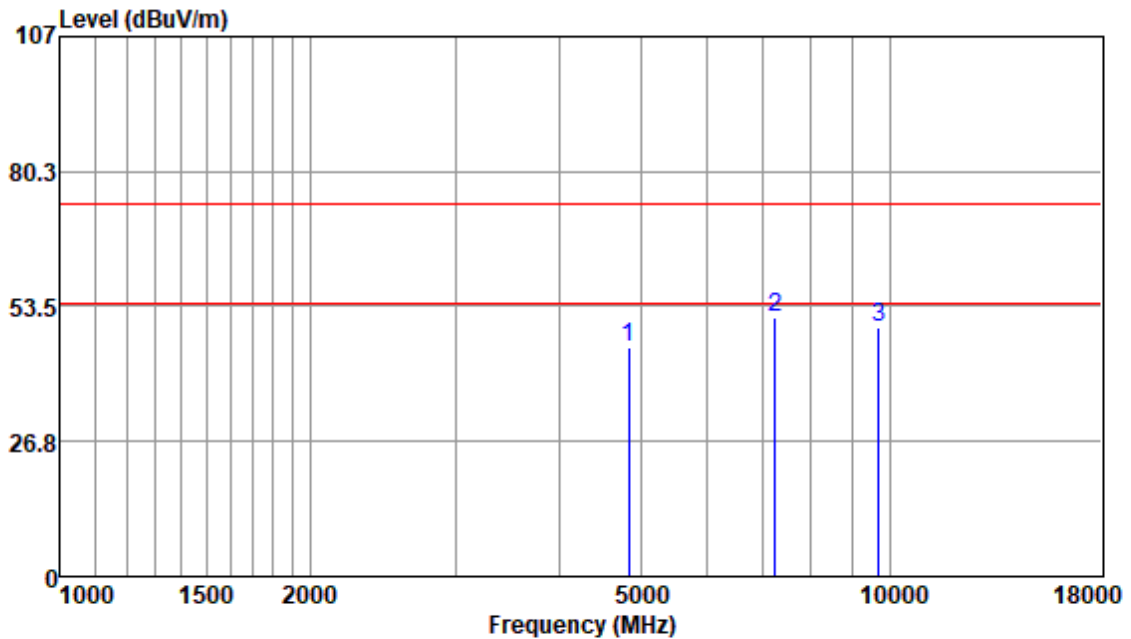
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t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4844.00	43.99	33.89	4.47	36.80	45.55	74.00	-28.45	Peak
7266.00	44.61	36.39	5.78	35.48	51.30	74.00	-22.70	Peak
9688.00	38.45	37.79	6.52	33.53	49.23	74.00	-24.77	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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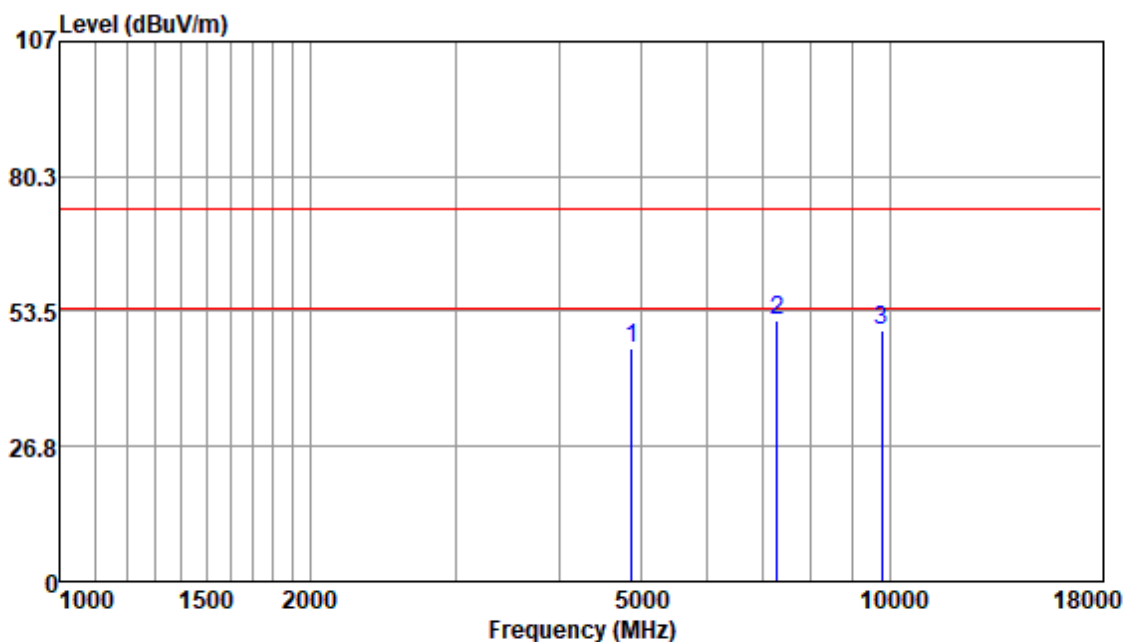
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	44.55	33.93	4.47	36.81	46.14	74.00	-27.86	Peak
7311.00	44.72	36.47	5.83	35.44	51.58	74.00	-22.42	Peak
9748.00	39.11	37.68	6.50	33.50	49.79	74.00	-24.21	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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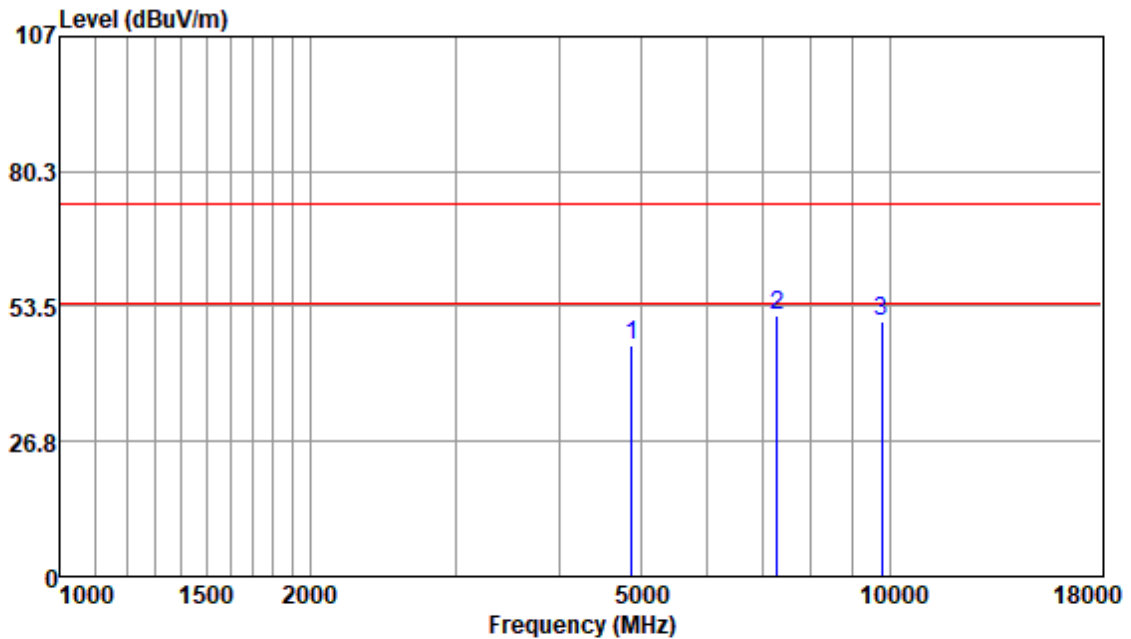
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	44.36	33.93	4.47	36.81	45.95	74.00	-28.05	Peak
7311.00	44.86	36.47	5.83	35.44	51.72	74.00	-22.28	Peak
9748.00	39.88	37.68	6.50	33.50	50.56	74.00	-23.44	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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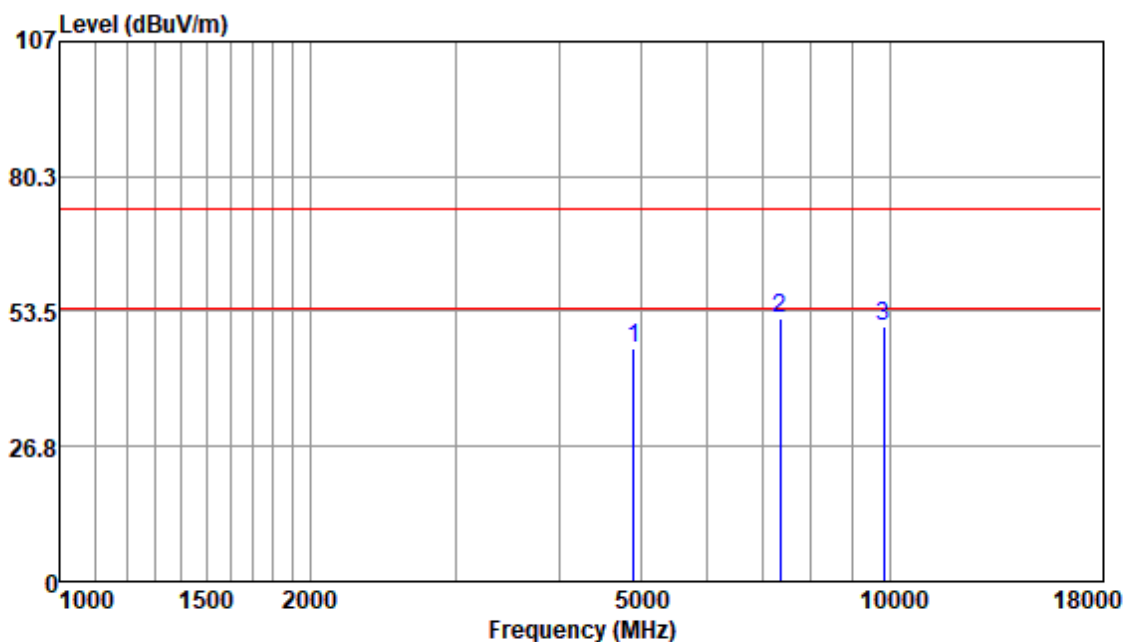
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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4904.00	44.57	33.97	4.47	36.81	46.20	74.00	-27.80	Peak
7356.00	45.36	36.47	5.88	35.41	52.30	74.00	-21.70	Peak
9808.00	39.98	37.55	6.49	33.47	50.55	74.00	-23.45	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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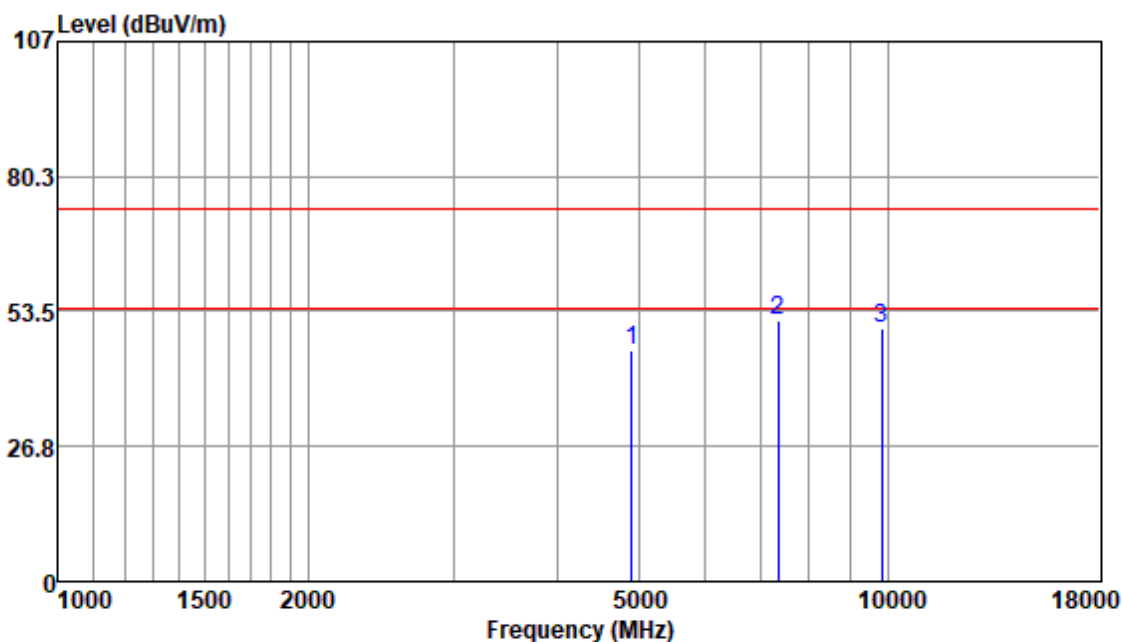
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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	44.13	33.97	4.47	36.81	45.76	74.00	-28.24	Peak
7356.00	44.71	36.47	5.88	35.41	51.65	74.00	-22.35	Peak
9808.00	39.47	37.55	6.49	33.47	50.04	74.00	-23.96	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

Appendix A for SHEM210700838001CR

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor[dB]	Power [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	13.46	0.00	13.46	30	PASS
11B	2437	Ant1	15.34	0.00	15.34	30	PASS
11B	2462	Ant1	16.24	0.00	16.24	30	PASS
11G	2412	Ant1	11.37	0.00	11.37	30	PASS
11G	2437	Ant1	13.35	0.00	13.35	30	PASS
11G	2462	Ant1	14.52	0.00	14.52	30	PASS
11N20SISO	2412	Ant1	11.1	0.00	11.10	30	PASS
11N20SISO	2437	Ant1	13.07	0.00	13.07	30	PASS
11N20SISO	2462	Ant1	14.38	0.00	14.38	30	PASS
11N40SISO	2422	Ant1	10.4	0.00	10.40	30	PASS
11N40SISO	2437	Ant1	11.28	0.00	11.28	30	PASS
11N40SISO	2452	Ant1	12.09	0.00	12.09	30	PASS



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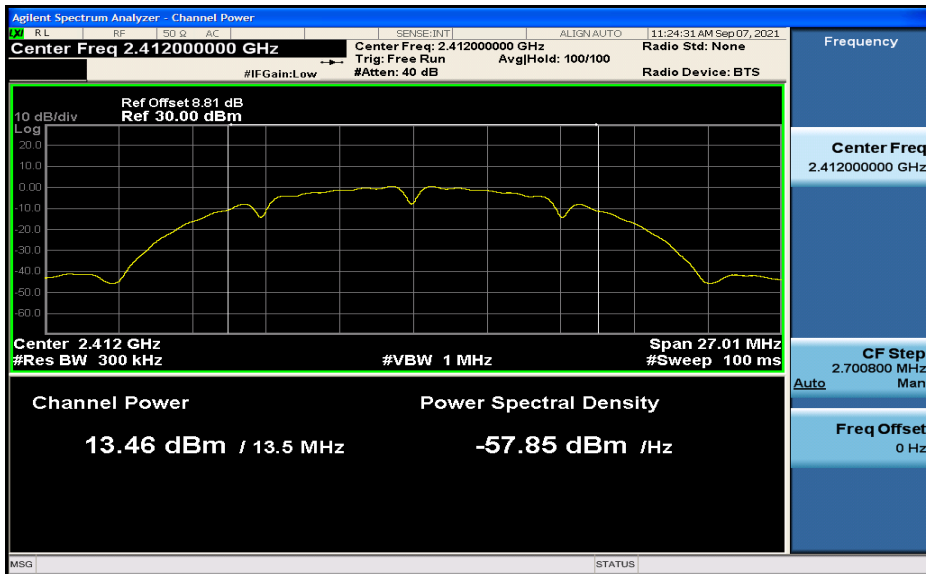
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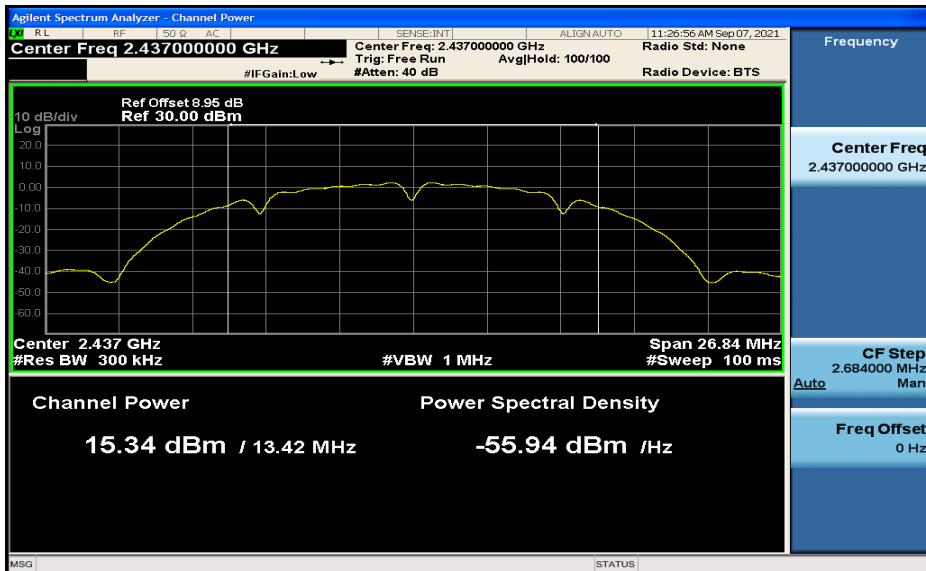
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Maximum conducted (average) output power_11B_2412_Ant1



Maximum conducted (average) output power_11B_2437_Ant1



Maximum conducted (average) output power_11B_2462_Ant1



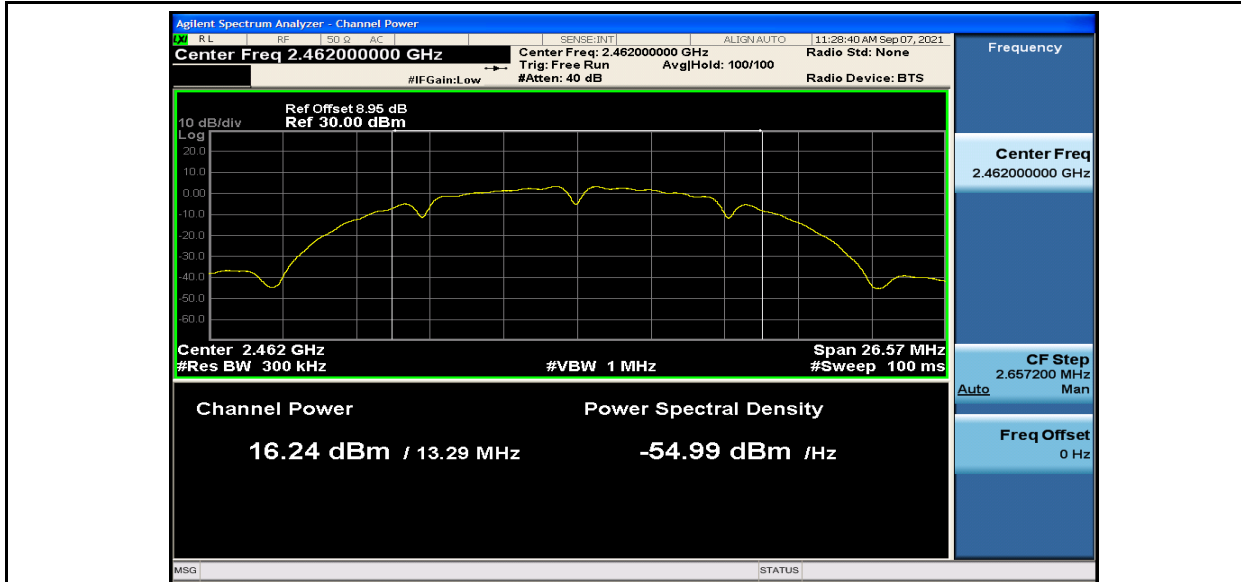
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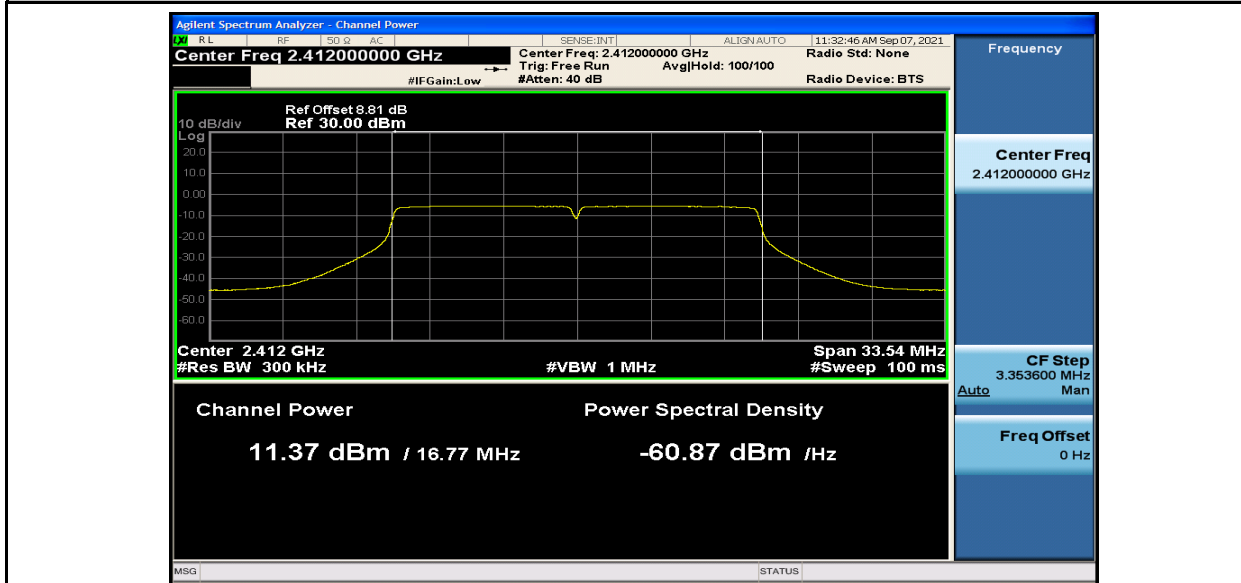
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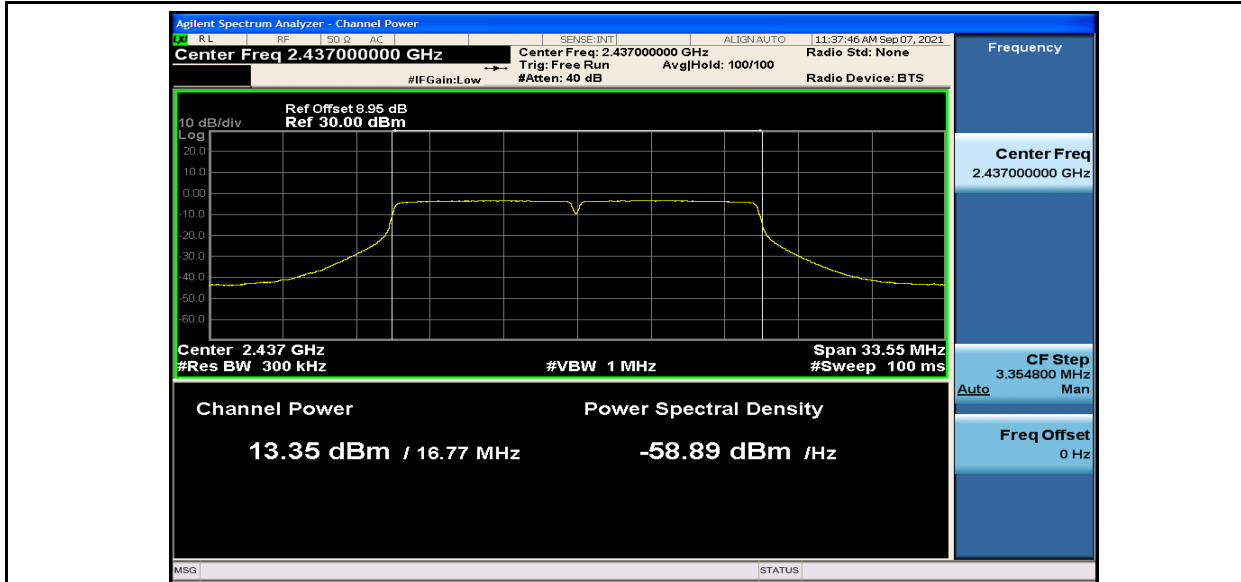
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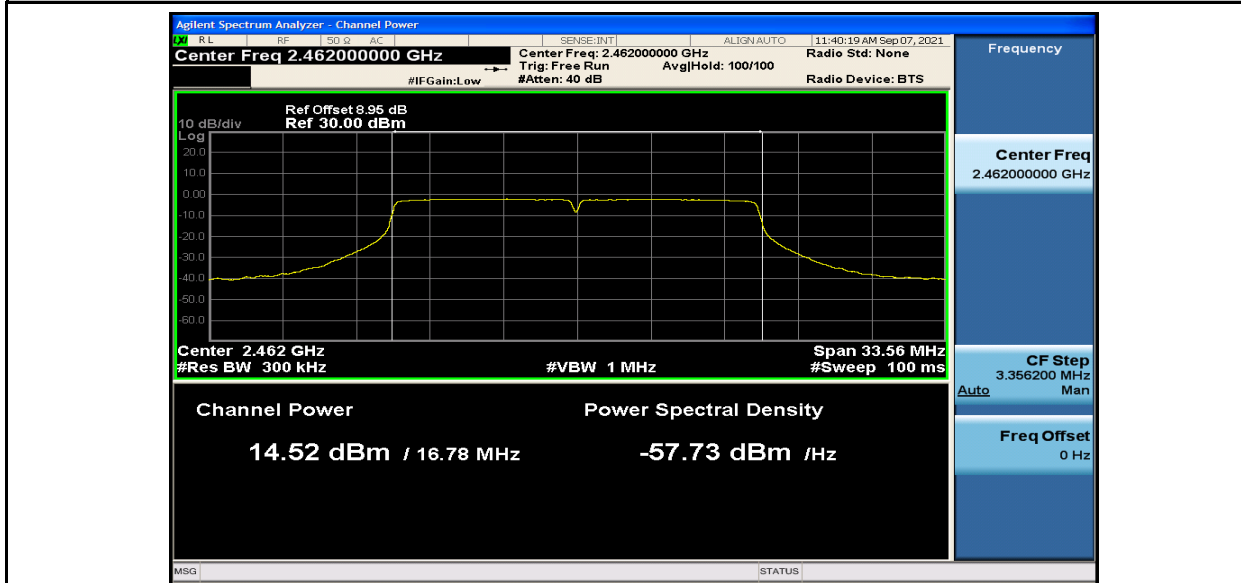
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Maximum conducted (average) output power_11G_2437_Ant1



Maximum conducted (average) output power_11G_2462_Ant1



Maximum conducted (average) output power_11N20SISO_2412_Ant1



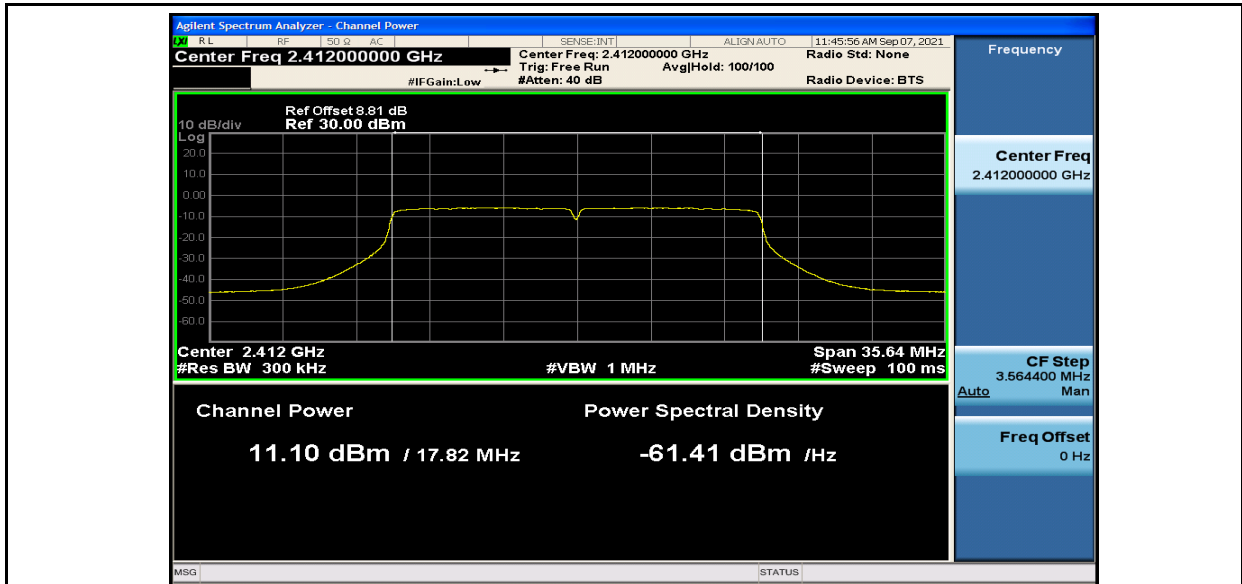
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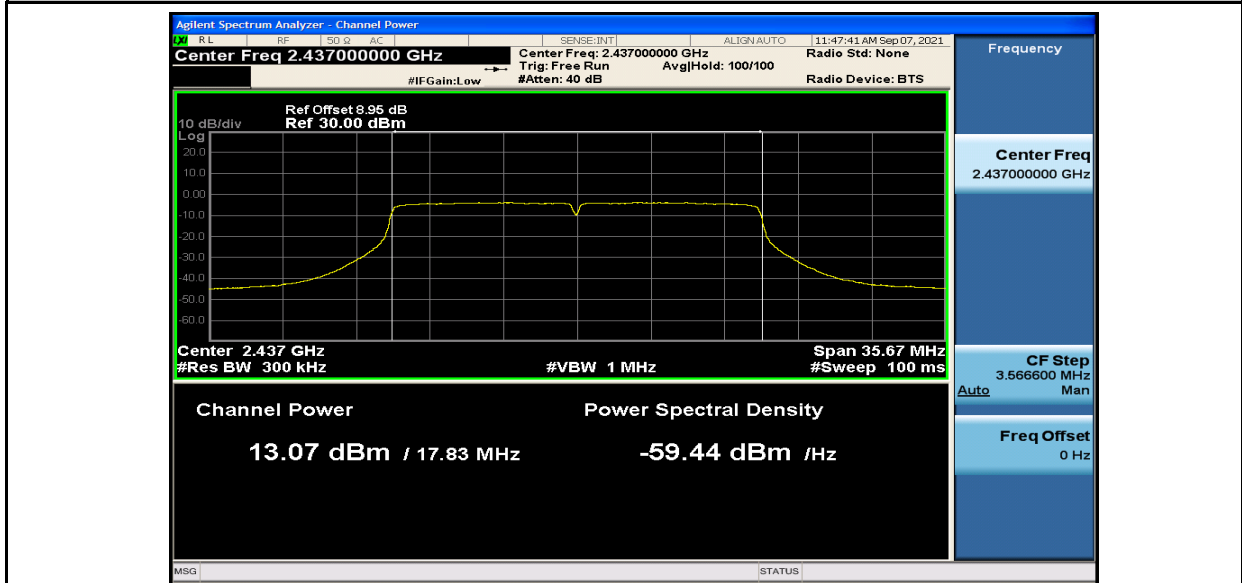
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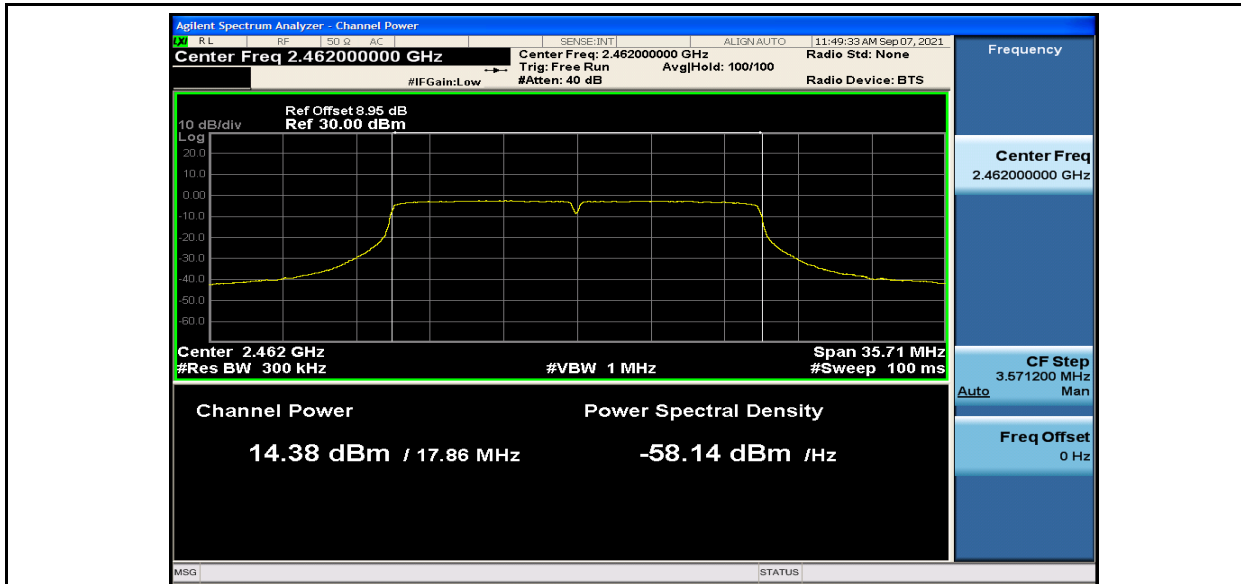
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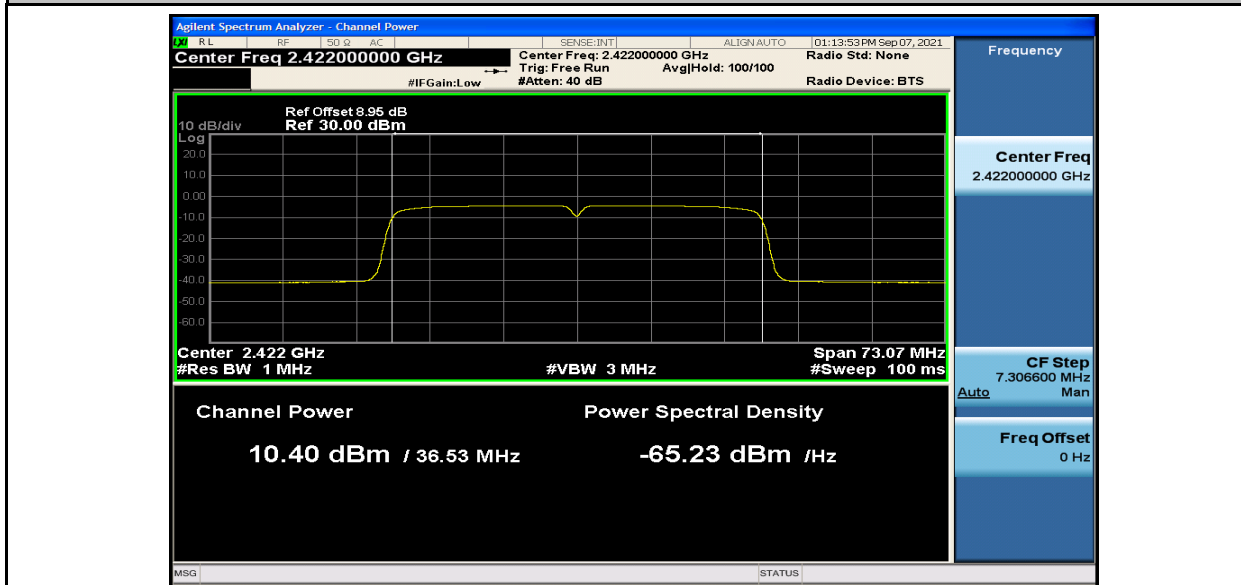
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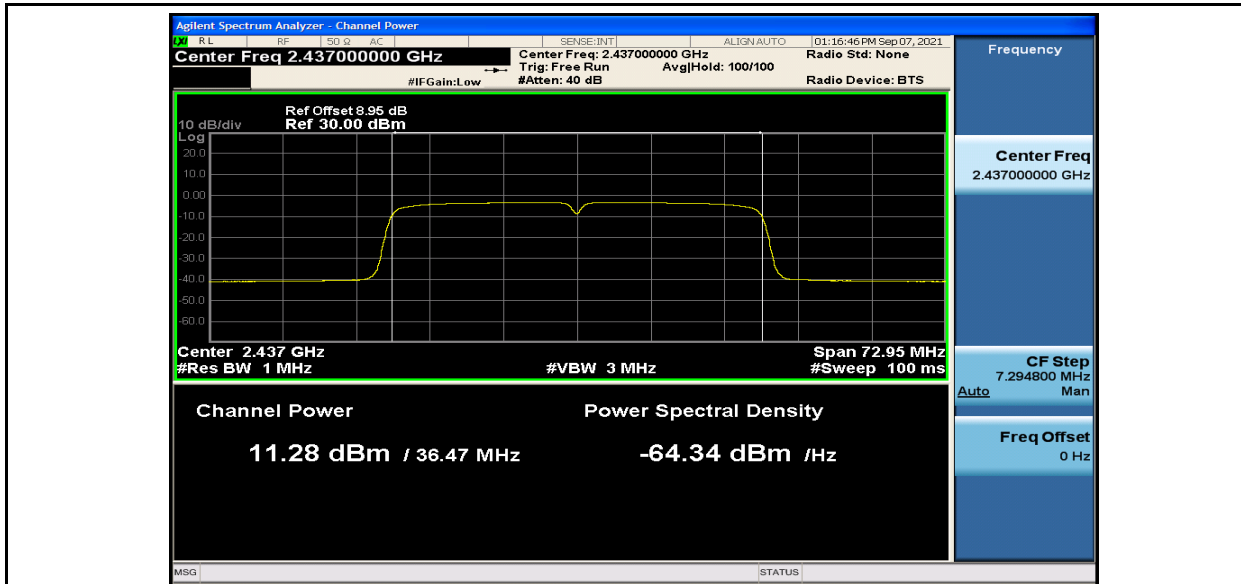
Maximum conducted (average) output power_11N20SISO_2462_Ant1



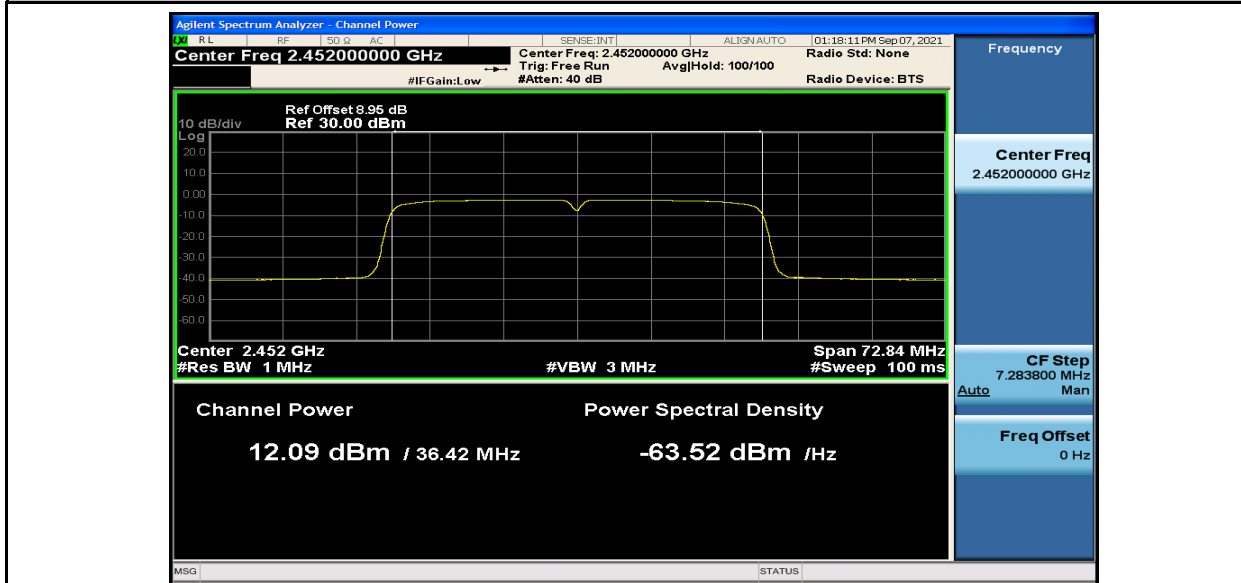
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Maximum conducted (average) output power_11N40SISO_2437_Ant1



Maximum conducted (average) output power_11N40SISO_2452_Ant1



- End of the Report -



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