



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZEWM2312001976RG04
Page: 1 of 135

TEST REPORT

Application No.: ZEWM2312001976RG
Applicant: Shenzhen Zhong Qing Chuang Technology Co.,Ltd
Address of Applicant: 5F Building D, No. 18 Guangyao Industrial Plant, Fourth Industrial Zone, Zhulongtian Road, Shuitian Community, Shiyao Street, Baoan District, Shenzhen
Manufacturer: Shenzhen Zhong Qing Chuang Technology Co.,Ltd
Address of Manufacturer: 5F Building D, No. 18 Guangyao Industrial Plant, Fourth Industrial Zone, Zhulongtian Road, Shuitian Community, Shiyao Street, Baoan District, Shenzhen
EUT Description: Tablet
Model No.: ZQC-P1,T1,P2,M104, M105, M107, M108, M109, M115, M116, M118, M119, M20, H717, H719, H720, H80, H815, H816, H818.
Trade Mark: Interpad
FCC ID: 2BBQH-P2
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2024/01/15
Date of Test: 2024/01/16 to 2024/01/29
Date of Issue: 2024/02/23

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Keny Xu
Laboratory Manager



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Report No.: ZEWM2312001976RG04
Page: 2 of 135

1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/02/23		Original

Prepared By	Jack Huang (Jack Huang) / Test Engineer
Checked By	Flora Wang (Flora Wang) / Reviewer



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZEWM2312001976RG04
Page: 3 of 135

2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	ANSI C63.10 2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

Only the Model No.(ZQC-P1) was tested in this report. According to the Declaration letter from client, the Model No. :T1,P2,M104, M105, M107, M108, M109, M115, M116, M118, M119, M20, H717, H719, H720, H80, H815, H816, H818, just the model name is different, all other functions are the same.



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Contents

1	Version	2
2	Test Summary	3
3	General Information	5
3.1	Details of Client	5
3.2	Test Location	5
3.3	Test Facility	5
3.4	General Description of EUT	6
3.5	Test Environment and Mode	8
3.6	Description of Support Units	8
3.7	Worst-case configuration and mode	8
4	Test results and Measurement Data	9
4.1	Antenna Requirement	9
4.2	AC Power Line Conducted Emissions	10
4.3	Duty Cycle	14
4.4	Conducted Output Power	15
4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	16
4.6	Power Spectral Density	17
4.7	Band-edge for RF Conducted Emissions	18
4.8	RF Conducted Spurious Emissions	19
4.9	Radiated Spurious Emissions	20
4.10	Restricted bands around fundamental frequency	23
5	Measurement Uncertainty (95% confidence levels, k=2)	26
6	Equipment List	27
7	Photographs - Setup Photos	29



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZEWM2312001976RG04
Page: 5 of 135

3 General Information

3.1 Details of Client

Applicant:	Shenzhen Zhong Qing Chuang Technology Co.,Ltd
Address of Applicant:	5F Building D, No. 18 Guangyao Industrial Plant, Fourth Industrial Zone, Zhulongtian Road, Shuitian Community, Shiyan Street, Baoan District, Shenzhen
Manufacturer:	Shenzhen Zhong Qing Chuang Technology Co.,Ltd
Address of Manufacturer:	5F Building D, No. 18 Guangyao Industrial Plant, Fourth Industrial Zone, Zhulongtian Road, Shuitian Community, Shiyan Street, Baoan District, Shenzhen

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Jinhua Wei, Xing Guo

3.3 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754



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Report No.: ZEWM2312001976RG04
Page: 6 of 135

3.4 General Description of EUT

EUT Description:	Tablet	
Model No.:	ZQC-P1,T1,P2,M104, M105, M107, M108, M109, M115, M116, M118, M119, M20, H717, H719, H720, H80, H815, H816, H818.	
Trade Mark:	Interpad	
Hardware Version:	M9-S1-V2-SU	
Software Version:	M9S1V2.2023121811	
Power Supply:	Lithium Battery (3.8V)	
IMEI:	RF Conducted	IMEI 1: 861004028419430
	RSE & AC power line	IMEI 1: 869195045217948 IMEI 2: 860335896862363
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	☒ SISO	802.11b/g/n
	☐ MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
	☐ Diversity	802.11b/g : Tx & Rx
Antenna Type:	FPC Antenna	
Antenna Gain:	1.76dBi (Ant3)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	2000MHz ~ 3000MHz (1.1dB)	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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Report No.: ZEWM2312001976RG04

Page: 7 of 135

Operation Frequency of each channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency of each channel (802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
Remark: 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, and the selected channel see below:							
Channel		Frequency for 802.11 b/g/n (HT20)		Frequency for 802.11n (HT40)			
The Lowest channel		2412MHz		2422MHz			
The Middle channel		2437MHz		2437MHz			
The Highest channel		2462MHz		2452MHz			



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Report No.: ZEWM2312001976RG04
Page: 8 of 135

3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is 1.76dBi (Ant3). * <i>*Note:</i> The antenna gain are derived from the gain information report provided by the manufacturer. <i>Remark:</i> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZEWM2312001976RG04
Page: 10 of 135

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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.			
Test Procedure:	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 50Ω/50μH + 5Ω 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. 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: 2013 on conducted measurement.		



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Report No.: ZEWM2312001976RG04
Page: 11 of 135

Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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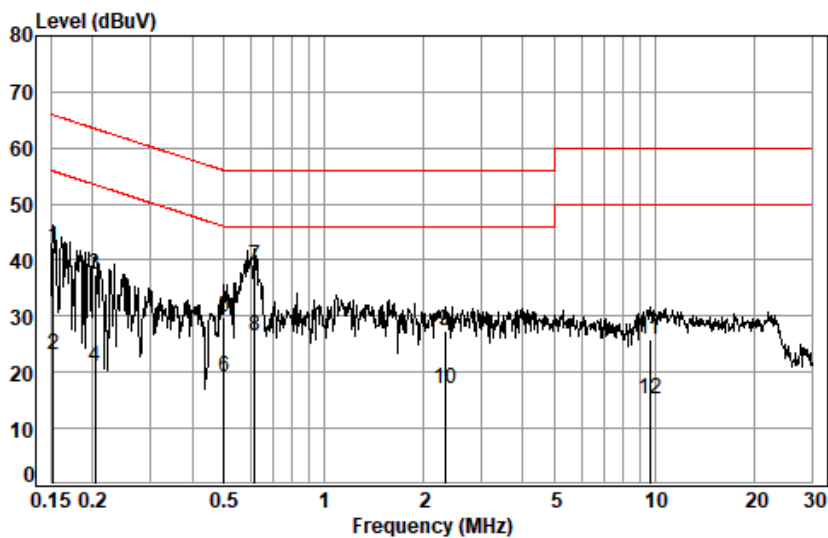
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Report No.: ZEWM2312001976RG04
Page: 12 of 135

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Phase: Line



Site : Shielding Room
Condition: Line
Job No. : 001976RG
Test mode: 2.4G WIFI

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.02	0.00	42.24	42.26	65.87	-23.61	QP
2	0.1524	0.02	0.00	23.05	23.07	55.87	-32.80	Average
3	0.2040	0.02	0.00	37.46	37.48	63.45	-25.97	QP
4	0.2040	0.02	0.00	20.83	20.85	53.45	-32.60	Average
5	0.4994	0.04	0.00	29.92	29.96	56.01	-26.05	QP
6	0.4994	0.04	0.00	19.15	19.19	46.01	-26.82	Average
7 *	0.6173	0.04	0.00	39.03	39.07	56.00	-16.93	QP
8 *	0.6173	0.04	0.00	26.51	26.55	46.00	-19.45	Average
9	2.3213	0.07	0.00	27.39	27.46	56.00	-28.54	QP
10	2.3213	0.07	0.00	16.93	17.00	46.00	-29.00	Average
11	9.6539	0.16	0.00	25.69	25.85	60.00	-34.15	QP
12	9.6539	0.16	0.00	15.16	15.32	50.00	-34.68	Average



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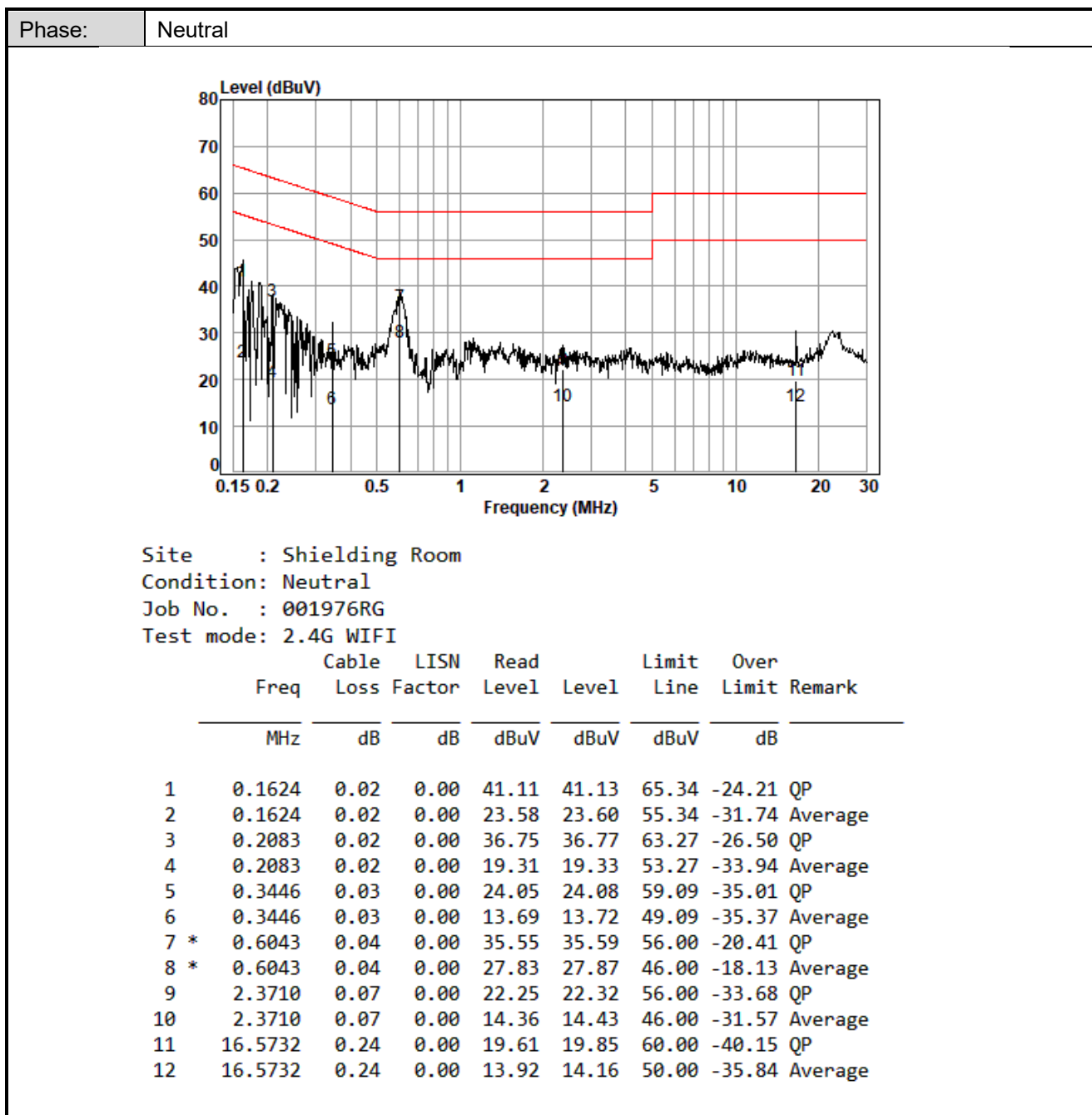
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Report No.: ZEWM2312001976RG04
Page: 13 of 135



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Report No.: ZEWM2312001976RG04
Page: 14 of 135

4.3 Duty Cycle

Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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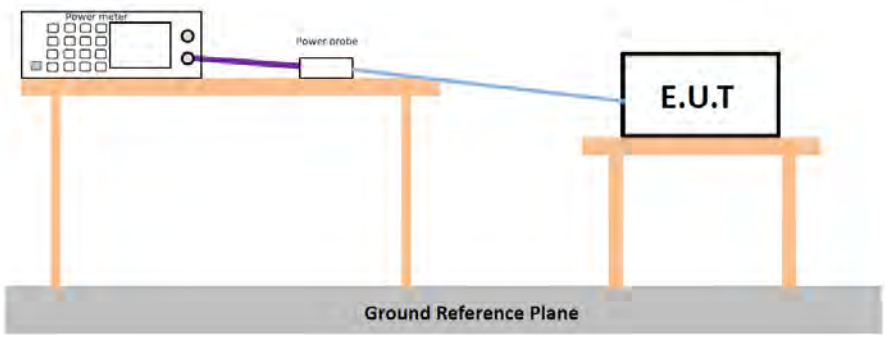
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Report No.: ZEWM2312001976RG04
Page: 15 of 135

4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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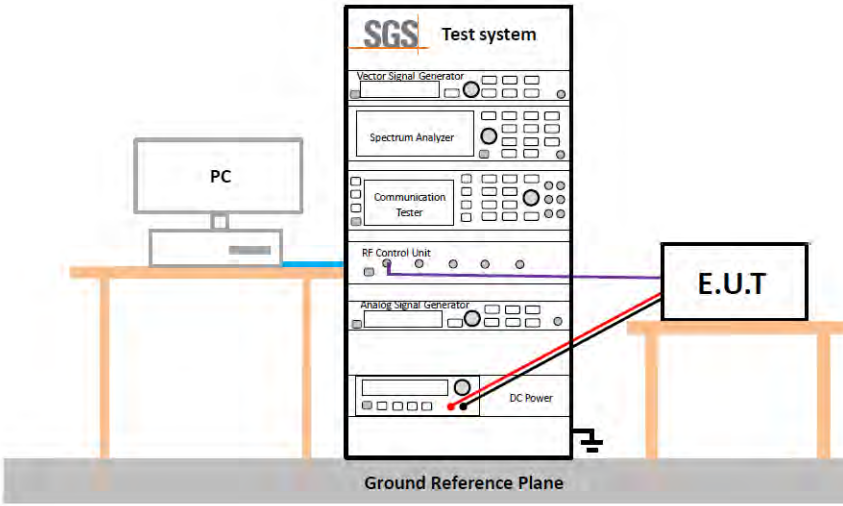
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Report No.: ZEWM2312001976RG04
Page: 16 of 135

4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: ZEWM2312001976RG04
Page: 17 of 135

4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: ZEWM2312001976RG04
Page: 18 of 135

4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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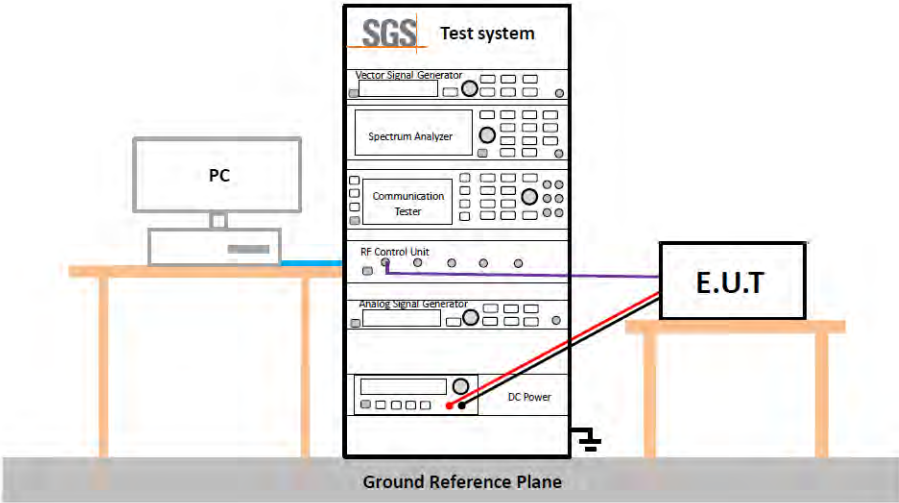
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Report No.: ZEWM2312001976RG04
Page: 19 of 135

4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: ZEWM2312001976RG04
Page: 20 of 135

4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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Report No.: ZEWM2312001976RG04
Page: 21 of 135

Test Setup:

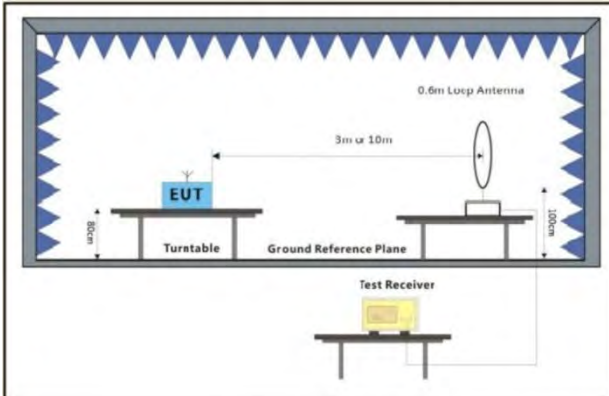


Figure 1. Below 30MHz

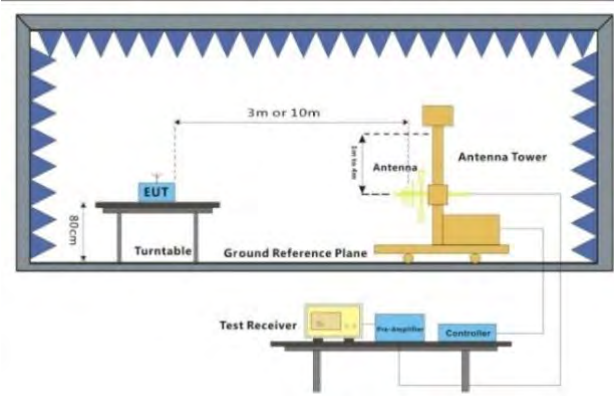


Figure 2. 30MHz to 1GHz

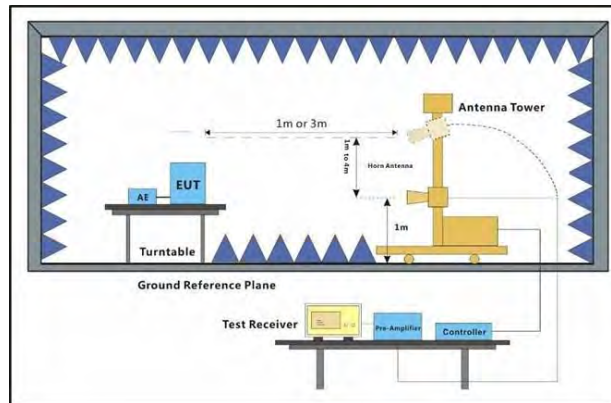


Figure 3. Above 1 GHz

Test Procedure:

- 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.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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.
- 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.
- 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.



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Report No.: ZEWM2312001976RG04
Page: 22 of 135

	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by $20 \times \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: ZEWM2312001976RG04
Page: 23 of 135

4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

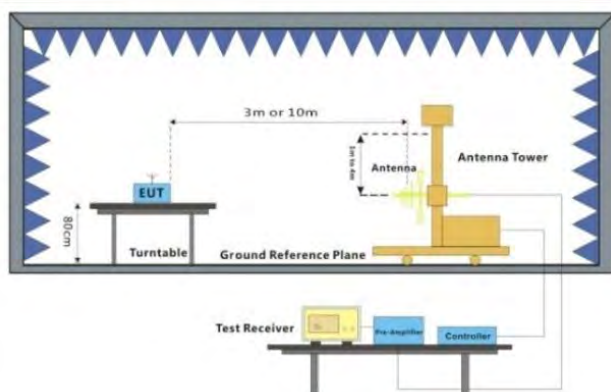


Figure 1. 30MHz to 1GHz

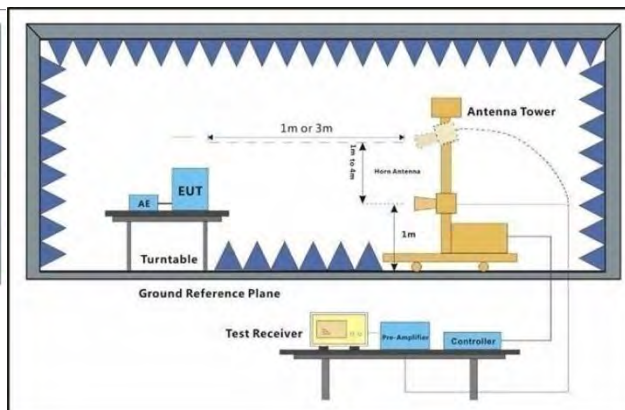


Figure 2. Above 1 GHz



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Report No.: ZEWM2312001976RG04
Page: 24 of 135

Test Procedure:	- 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. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - 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. - 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. - 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.



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Page: 25 of 135

Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: ZEWM2312001976RG04
Page: 26 of 135

5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.41\text{dB}$
2	RF power density, conducted	$\pm 1.96\text{dB}$
3	Spurious emissions, conducted	$\pm 0.41\text{dB}$
4	Radio Frequency	$\pm 7.10 \times 10^{-8} \text{ GHz}$
5	Duty Cycle	$\pm 0.49\%$
6	Occupied Bandwidth	$\pm 0.2\%$
7	Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.0\text{dB}$
8	Radiated Spurious emission test(UE)	$\pm 4.8\text{dB}$ (30MHz-1GHz)
		$\pm 4.68\text{dB}$ (1GHz-6GHz)
		$\pm 4.52\text{dB}$ (6GHz-18GHz)
		$\pm 5.26\text{dB}$ (18GHz-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Report No.: ZEWM2312001976RG04
Page: 27 of 135

6 Equipment List

RF Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-032	2023/02/17	2024/02/16
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2023/02/16	2024/02/15
DC power supply	HYELEC	HY3005B	SZ-WRG-M-044	2023/09/14	2024/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SZ-WRG-M-033	2023/02/16	2024/02/15
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SZ-WRG-M-017	2023/12/21	2024/12/20
Signal Generator	KEYSIGHT	N5182A	SZ-WRG-M-041	2023/02/16	2024/02/15
Power Meter	Agilent	ML2495A	SZ-WSR-M-022	2023/12/21	2024/12/20
Power Sensor	Agilent	MA2411B	SZ-WSR-M-023	2023/12/21	2024/12/20

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022/05/14	2025/05/13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023/03/20	2024/03/19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	NCR	NCR
Coaxial Cable	SGS	N/A	SEM024-01	2023/07/07	2024/07/06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023/09/19	2024/09/18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023/03/20	2024/03/19



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Report No.: ZEWM2312001976RG04
Page: 28 of 135

Radiated spurious emissions					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
EMI TEST RECEIVER	Rohde & Schwarz	ESR	SZ-WRG-M-047	2023/02/16	2024/02/15
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2023/02/16	2024/02/15
Low Noise Amplifier 9K-3GHz	Tonscend	TAP9K3G32	SZ-WRG-M-049	2023/02/16	2024/02/15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2023/02/16	2024/02/15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2023/02/16	2024/02/15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2023/02/16	2024/02/15
Active Loop Antenna 9kHz-30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2024/12/24
TRILOG Breitband Antenne 30MHz-1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2024/12/24
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2024/12/20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2024/12/24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	NCR	NCR
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-S-059	NCR	NCR
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022/01/05	2025/01/04
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-022	2023/02/17	2024/02/16
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2023/09/14	2024/09/13

Remark: NCR=No Calibration Requirement.



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7 Photographs - Setup Photos

Refer to Appendix A.1 WLAN Setup Photos.



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Appendix



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Report No.: ZEWM2312001976RG04
Page: 31 of 135

DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant3	2412	8.64	2406.92	2415.56	0.5	PASS
		2437	8.60	2433.44	2442.04	0.5	PASS
		2462	8.64	2456.92	2465.56	0.5	PASS
11g	Ant3	2412	13.24	2403.80	2417.04	0.5	PASS
		2437	14.56	2430.64	2445.20	0.5	PASS
		2462	15.80	2453.76	2469.56	0.5	PASS
11n20SISO	Ant3	2412	13.84	2403.20	2417.04	0.5	PASS
		2437	16.36	2429.44	2445.80	0.5	PASS
		2462	16.40	2453.16	2469.56	0.5	PASS
11n40SISO	Ant3	2422	35.92	2403.76	2439.68	0.5	PASS
		2437	26.40	2428.20	2454.60	0.5	PASS
		2452	21.44	2439.36	2460.80	0.5	PASS



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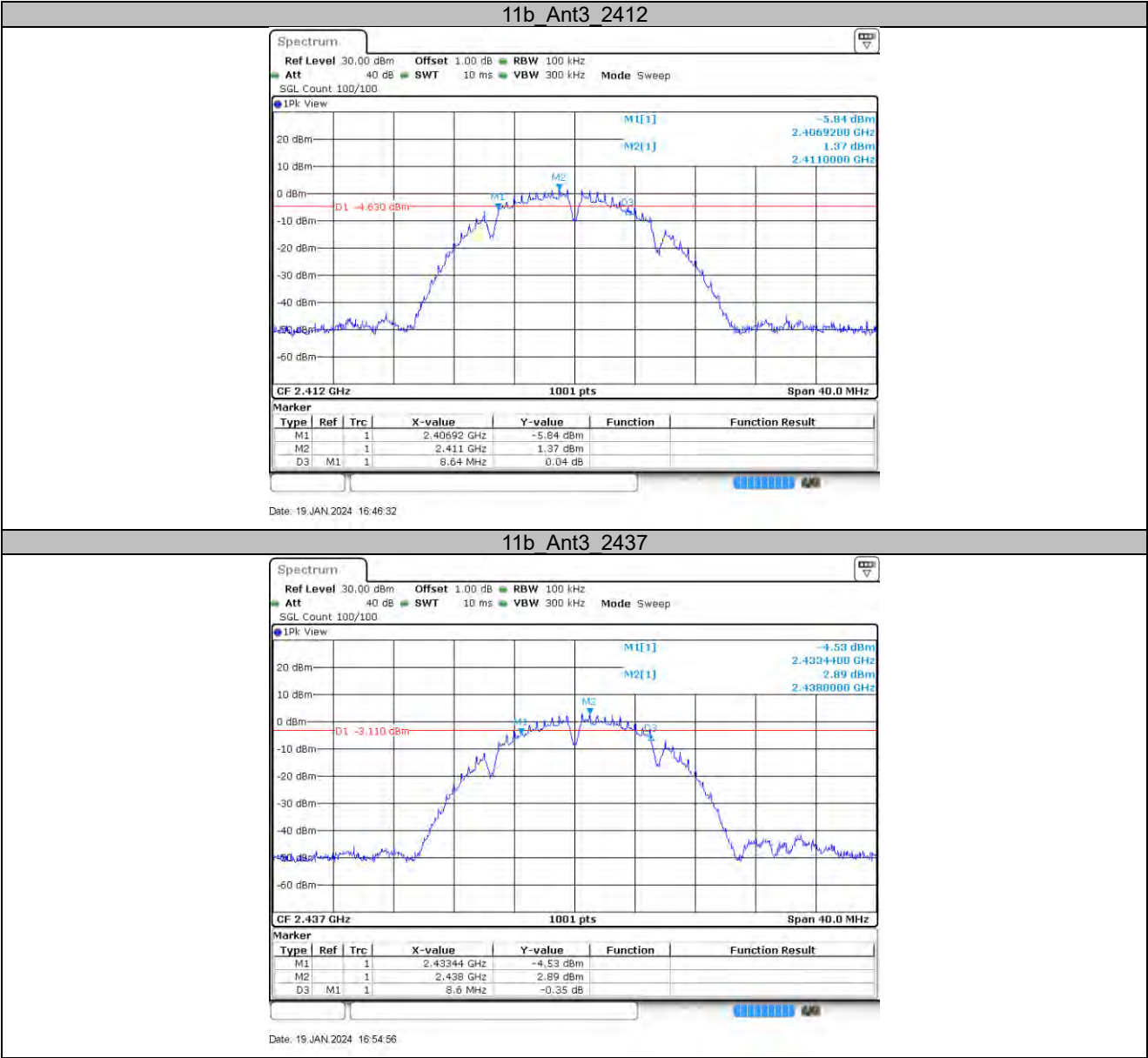
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Page: 32 of 135

Test Graphs



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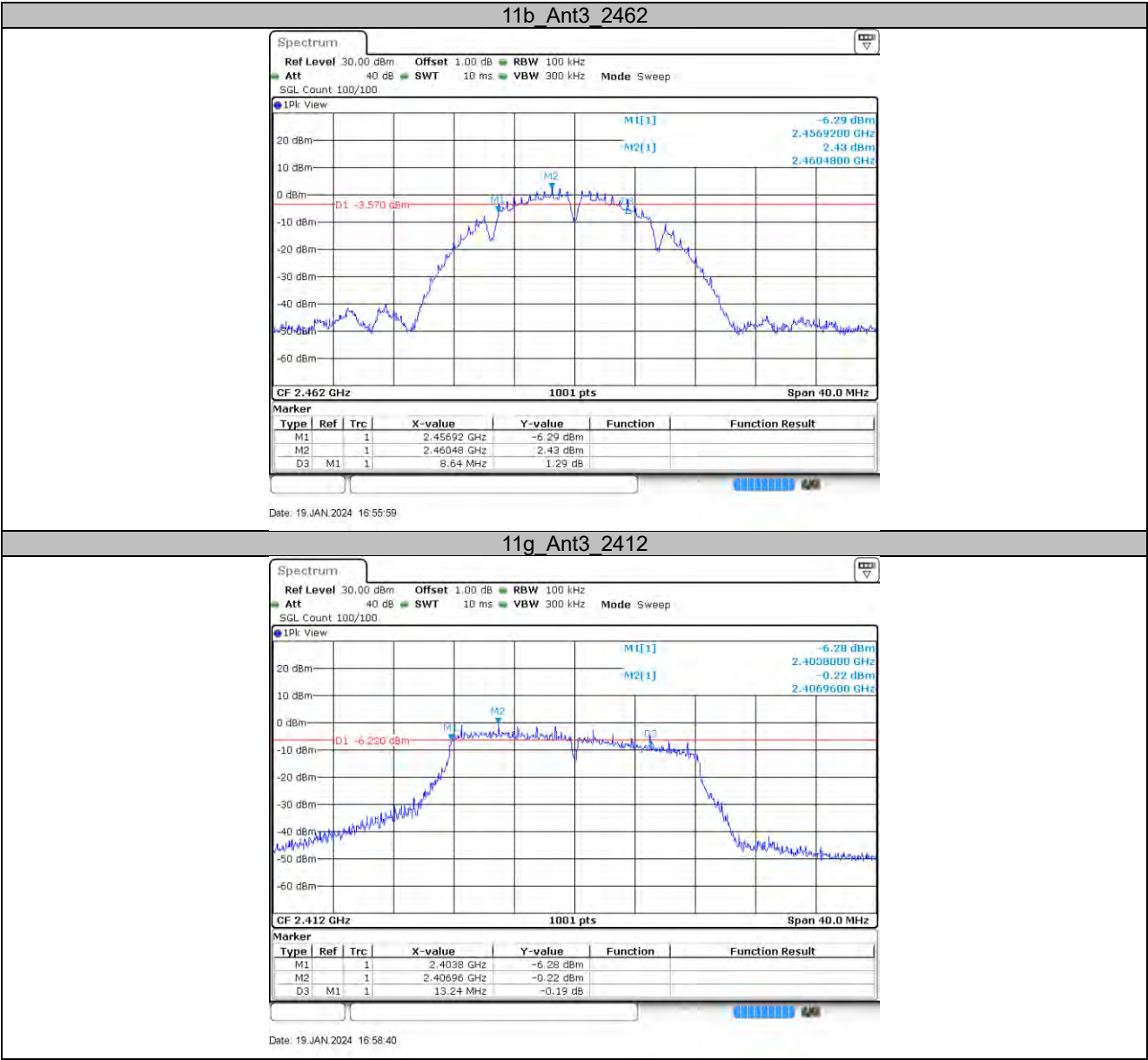
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Report No.: ZEWM2312001976RG04
Page: 33 of 135



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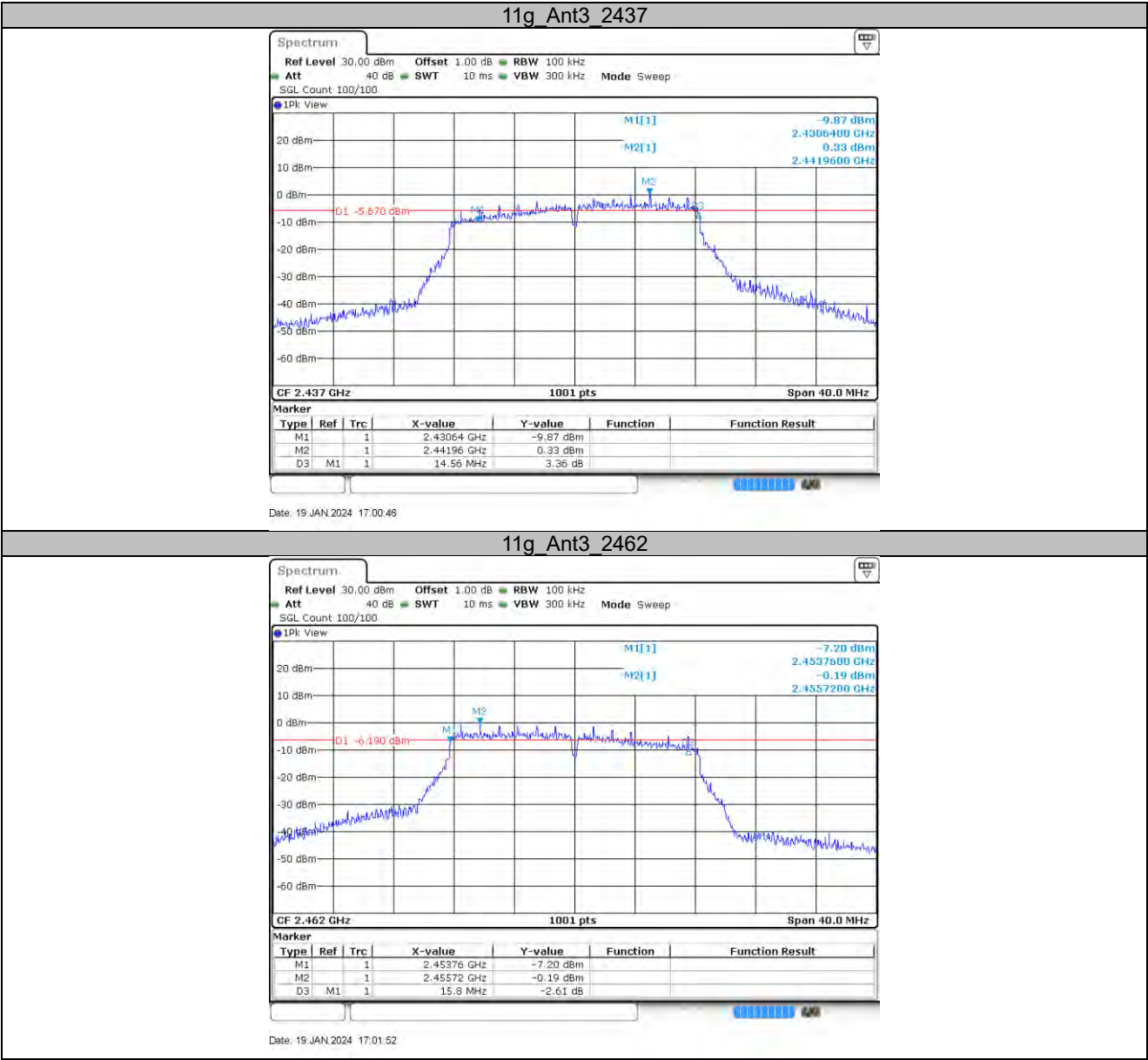
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Report No.: ZEWM2312001976RG04
Page: 34 of 135



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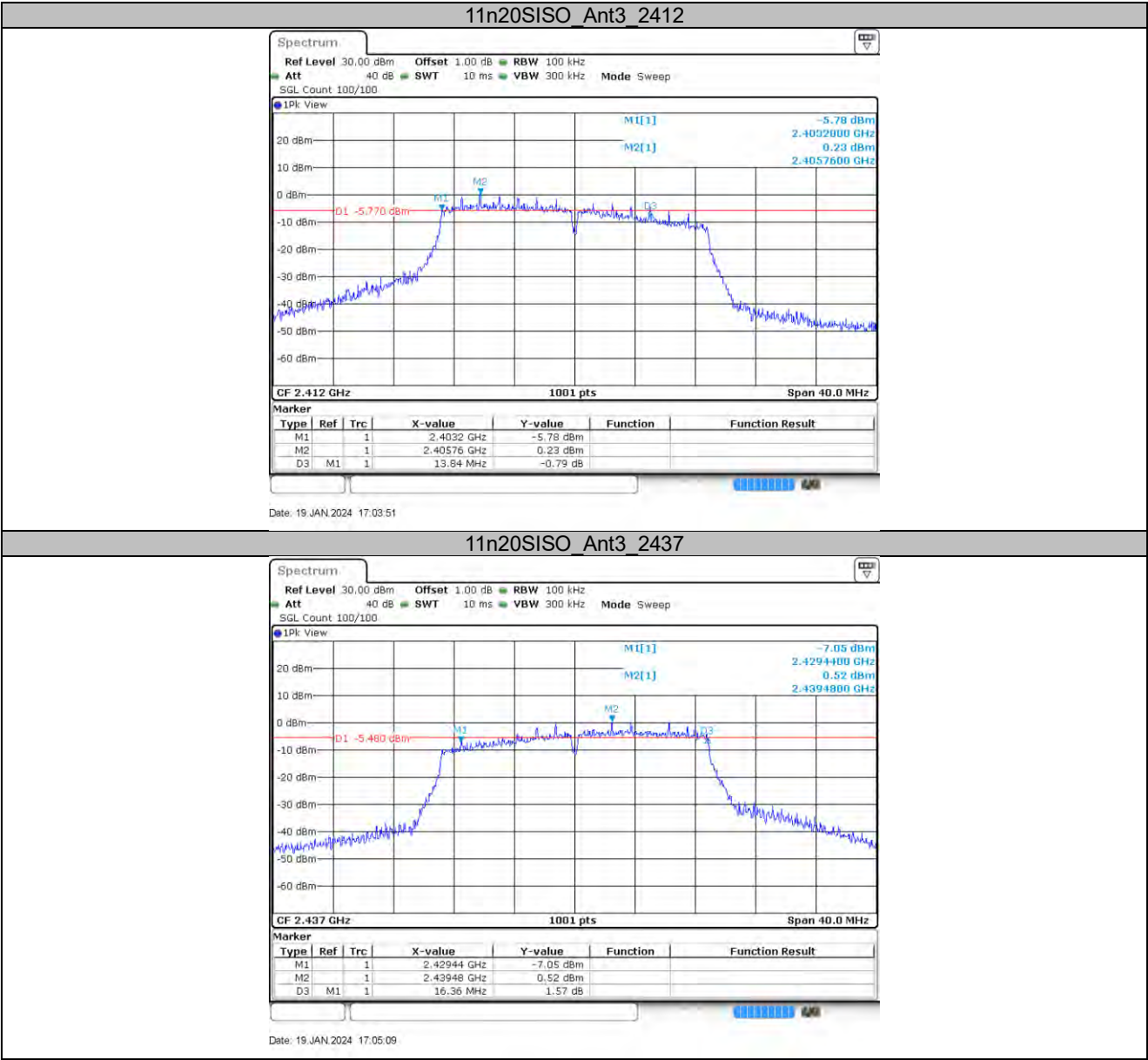
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Report No.: ZEWM2312001976RG04
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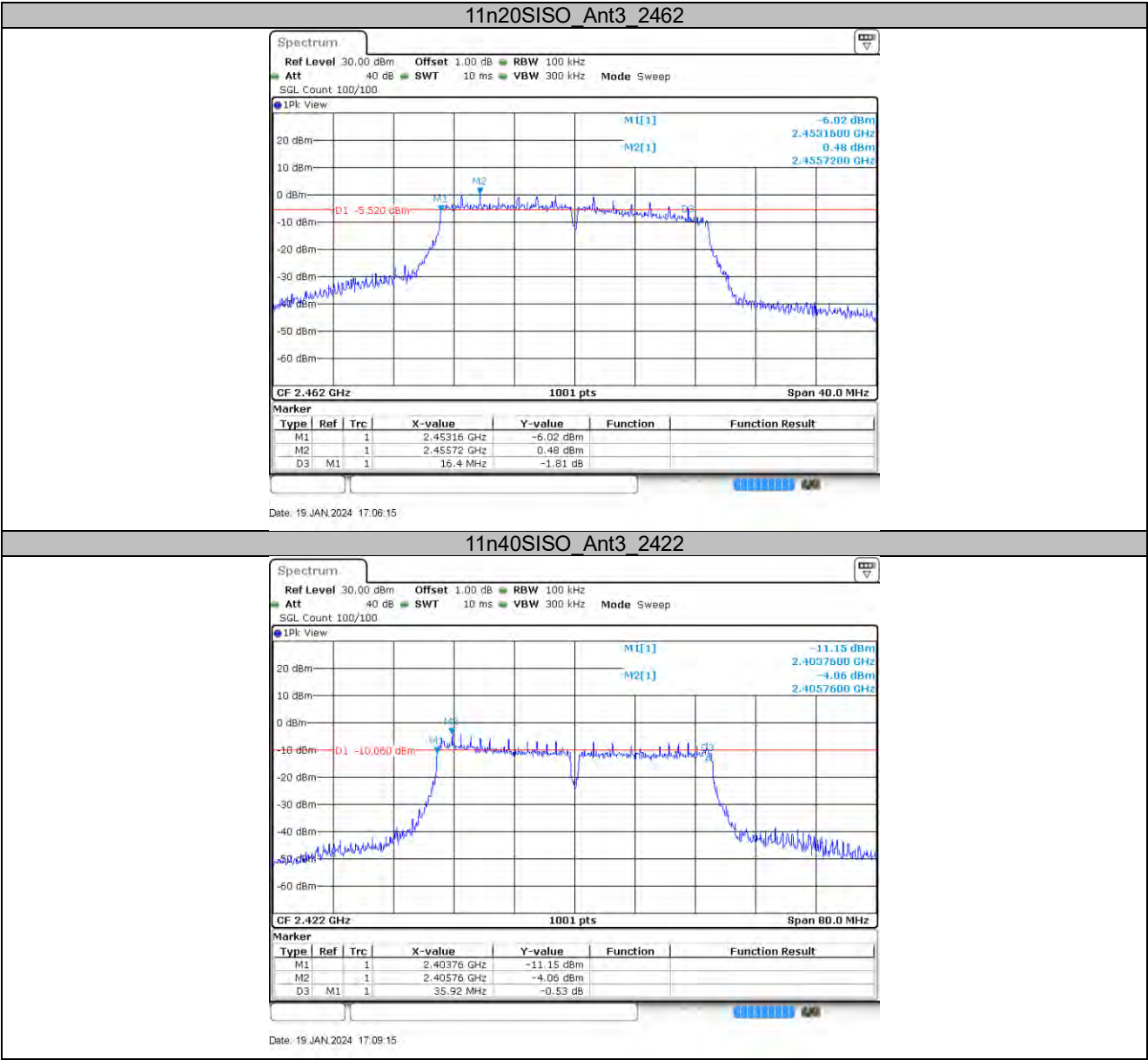
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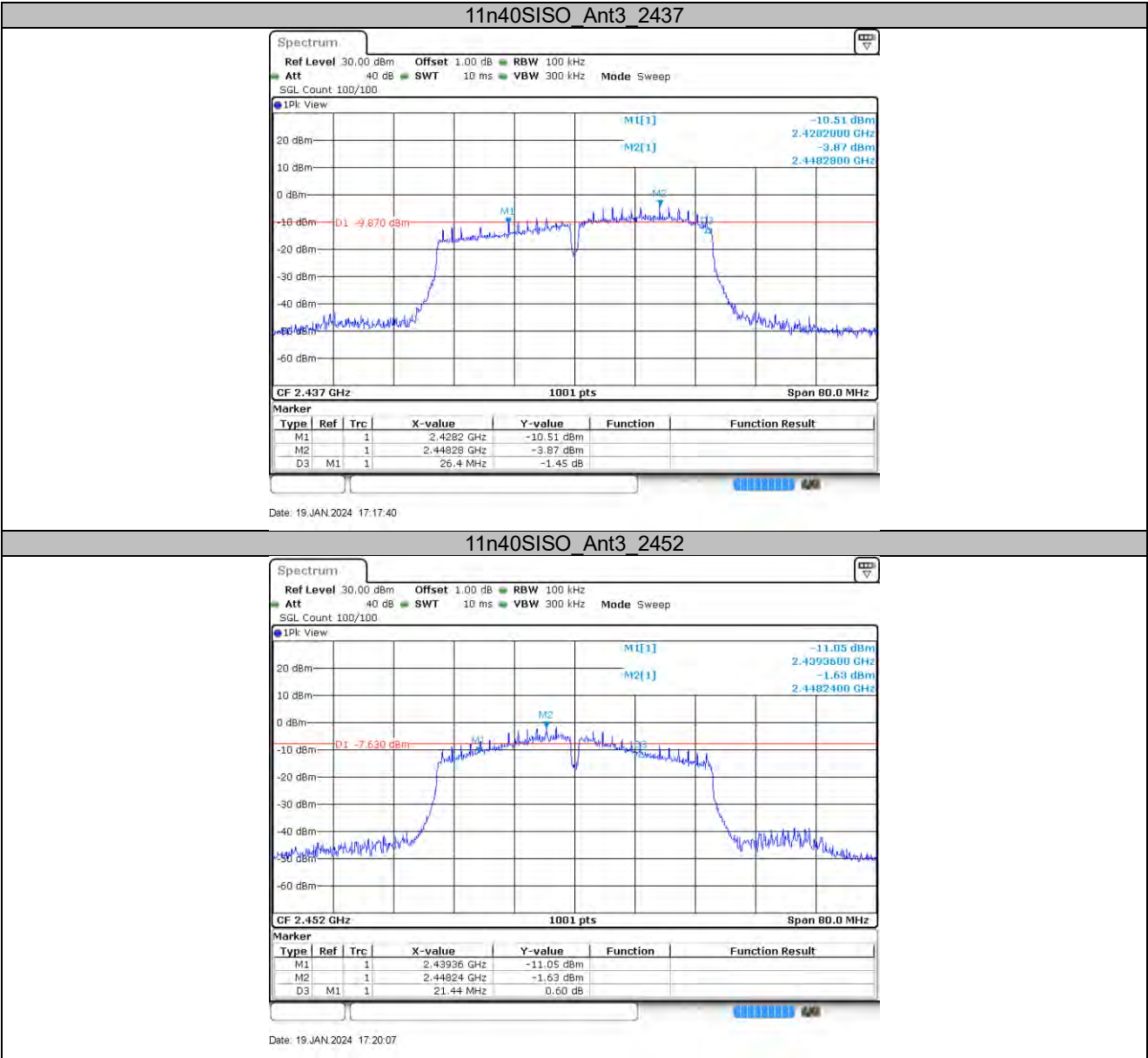
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Report No.: ZEWM2312001976RG04
Page: 38 of 135

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant3	2412	13.067	2404.9271	2417.9940	For Report Purpose
		2437	12.907	2430.9261	2443.8332	
		2462	13.187	2454.9670	2468.1538	
11g	Ant3	2412	16.903	2403.2088	2420.1119	
		2437	16.903	2428.8482	2445.7512	
		2462	17.183	2453.0490	2470.2318	
11n20SISO	Ant3	2412	17.862	2402.7293	2420.5914	
		2437	17.902	2428.2887	2446.1908	
		2462	18.062	2452.6494	2470.7113	
11n40SISO	Ant3	2422	37.003	2403.2987	2440.3017	
		2437	35.884	2419.2577	2455.1419	
		2452	35.165	2434.2577	2469.4226	



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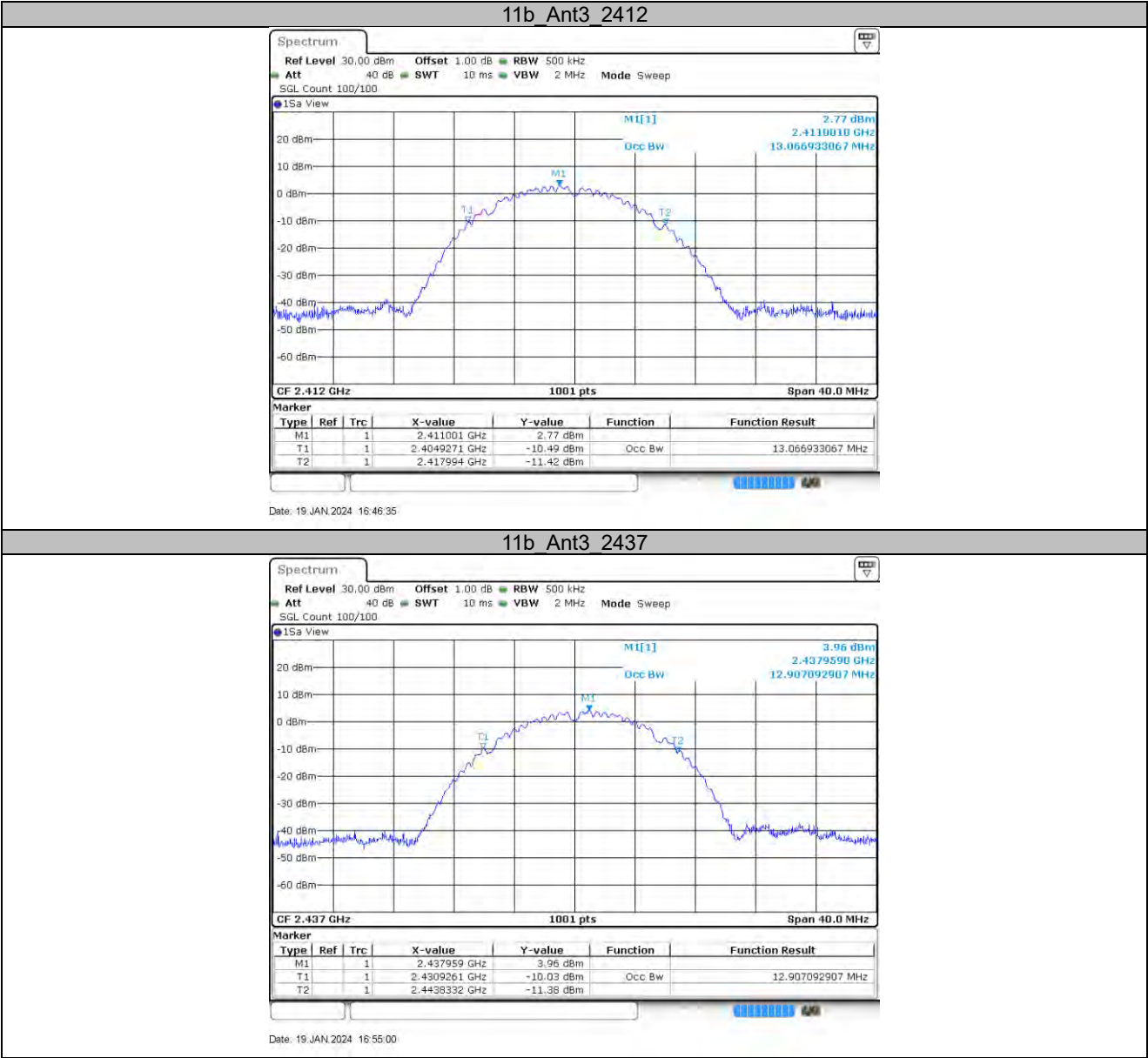
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Report No.: ZEWM2312001976RG04
Page: 39 of 135

Test Graphs



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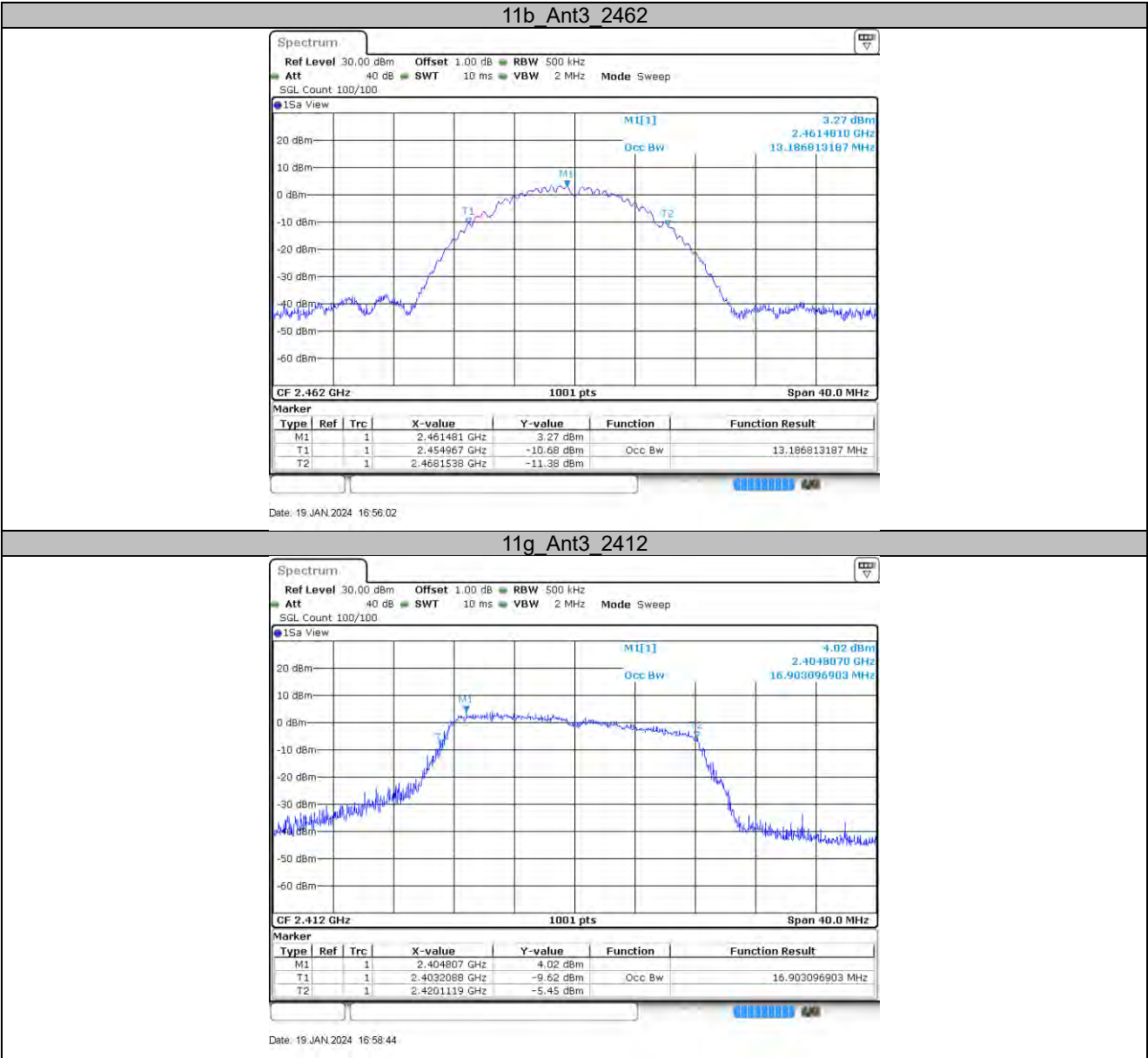
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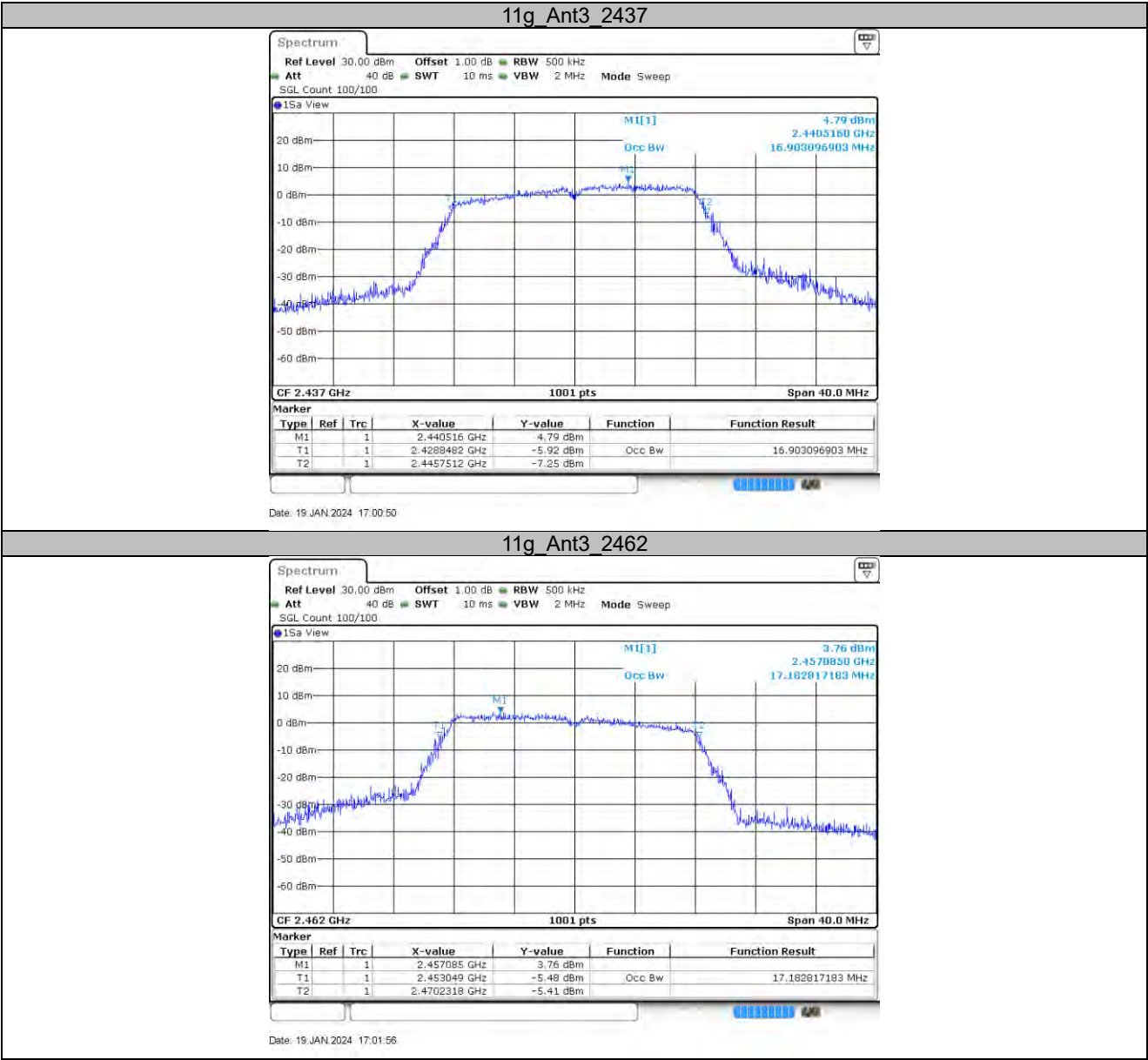
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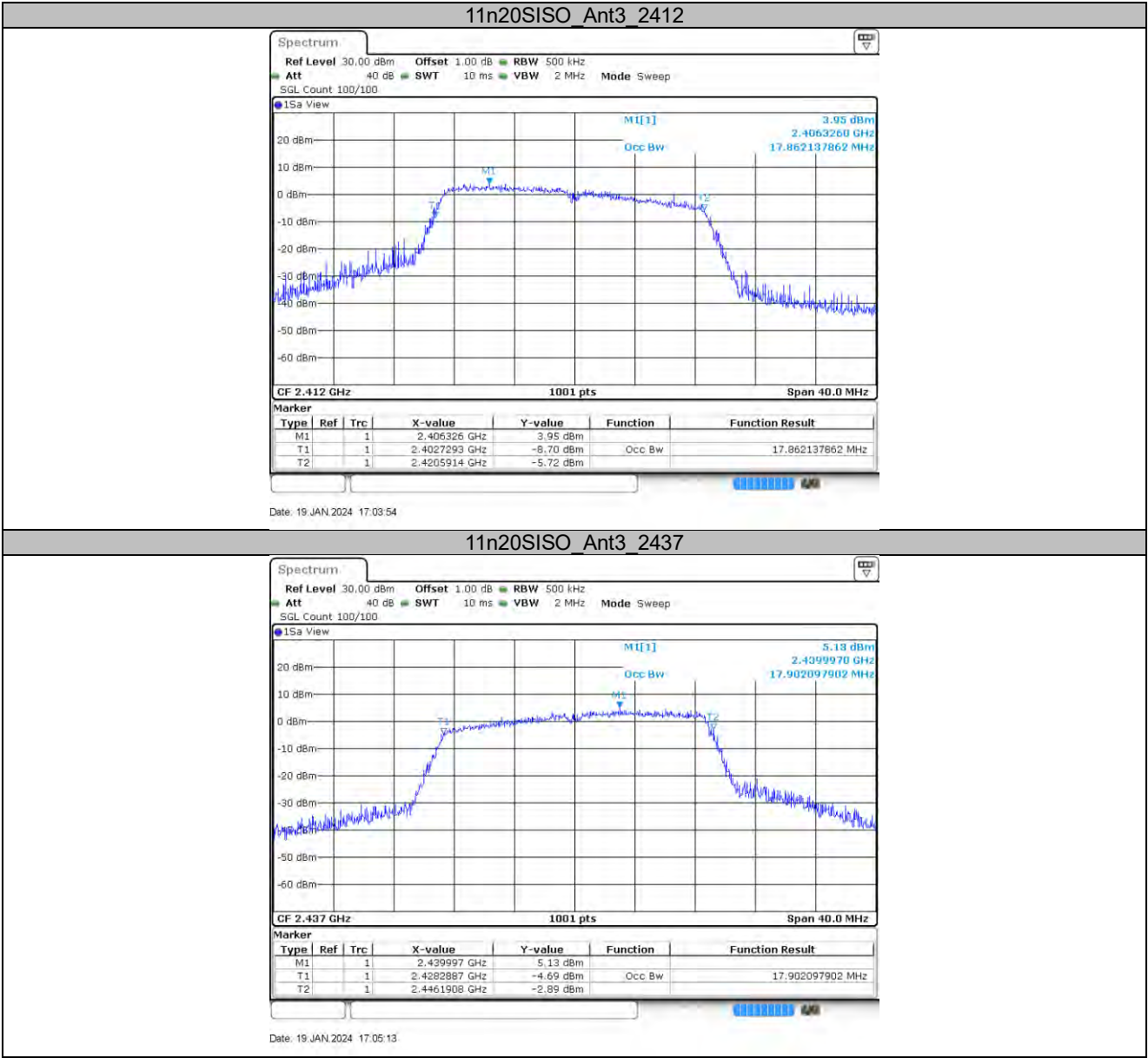
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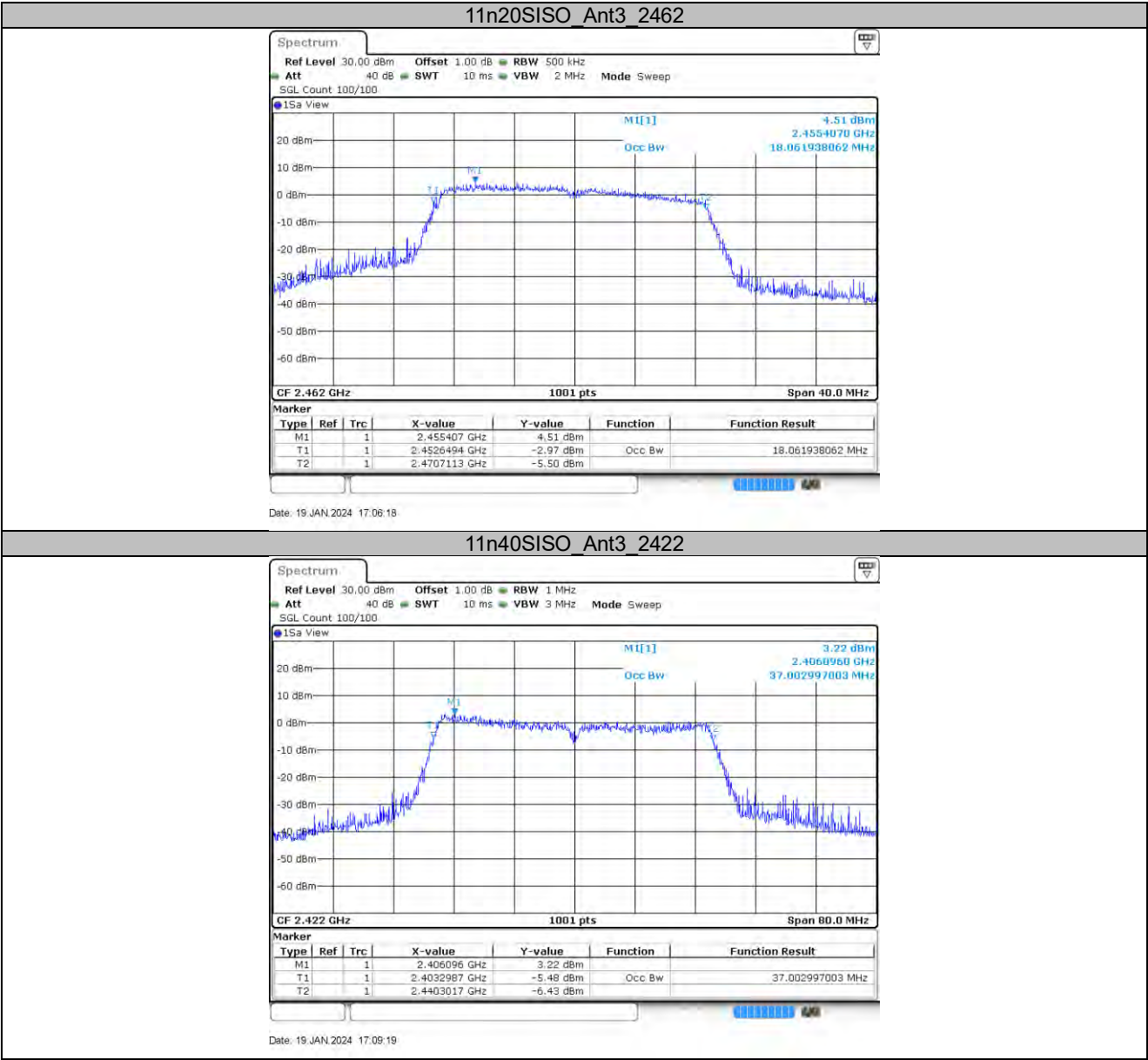
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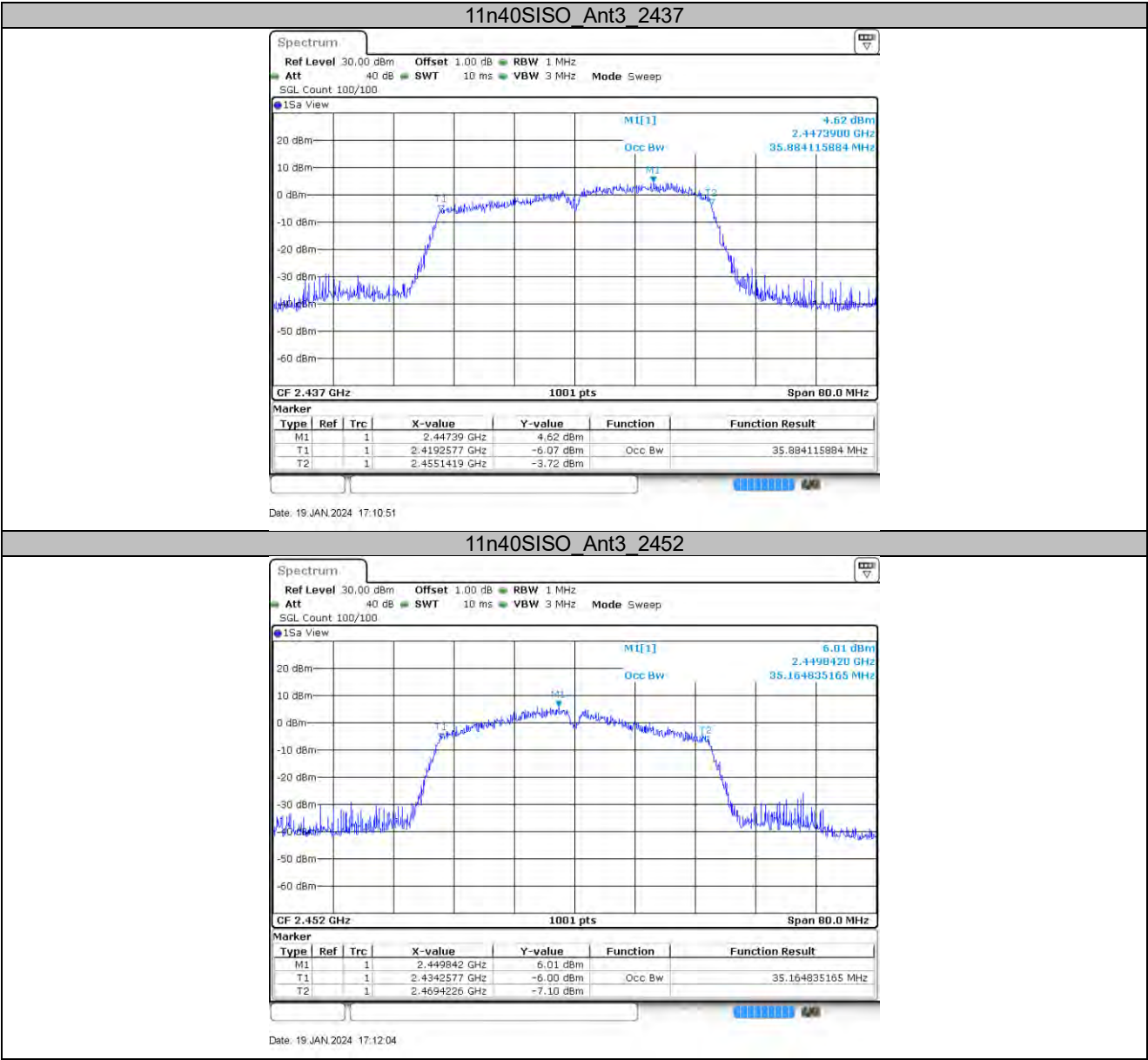
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Page: 45 of 135

Maximum conducted output power Test Result Peak

TestMode	Antenna	Channel	Peak Power[dBm]	Limit[dBm]	Verdict
11b	Ant3	2412	13.68	≤30.00	PASS
		2437	14.64	≤30.00	PASS
		2462	14.15	≤30.00	PASS
11g	Ant3	2412	19.46	≤30.00	PASS
		2437	20.69	≤30.00	PASS
		2462	20.42	≤30.00	PASS
11n20	Ant3	2412	20.38	≤30.00	PASS
		2437	20.32	≤30.00	PASS
		2462	20.90	≤30.00	PASS
11n40	Ant3	2422	20.05	≤30.00	PASS
		2437	20.38	≤30.00	PASS
		2452	20.03	≤30.00	PASS



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Report No.: ZEWM2312001976RG04
Page: 46 of 135

Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant3	2412	-10.78	≤8.00	PASS
		2437	-9.67	≤8.00	PASS
		2462	-11.23	≤8.00	PASS
11g	Ant3	2412	-14.07	≤8.00	PASS
		2437	-14.05	≤8.00	PASS
		2462	-13.92	≤8.00	PASS
11n20SISO	Ant3	2412	-13.79	≤8.00	PASS
		2437	-13.77	≤8.00	PASS
		2462	-14.24	≤8.00	PASS
11n40SISO	Ant3	2422	-18.03	≤8.00	PASS
		2437	-17.54	≤8.00	PASS
		2452	-15.51	≤8.00	PASS



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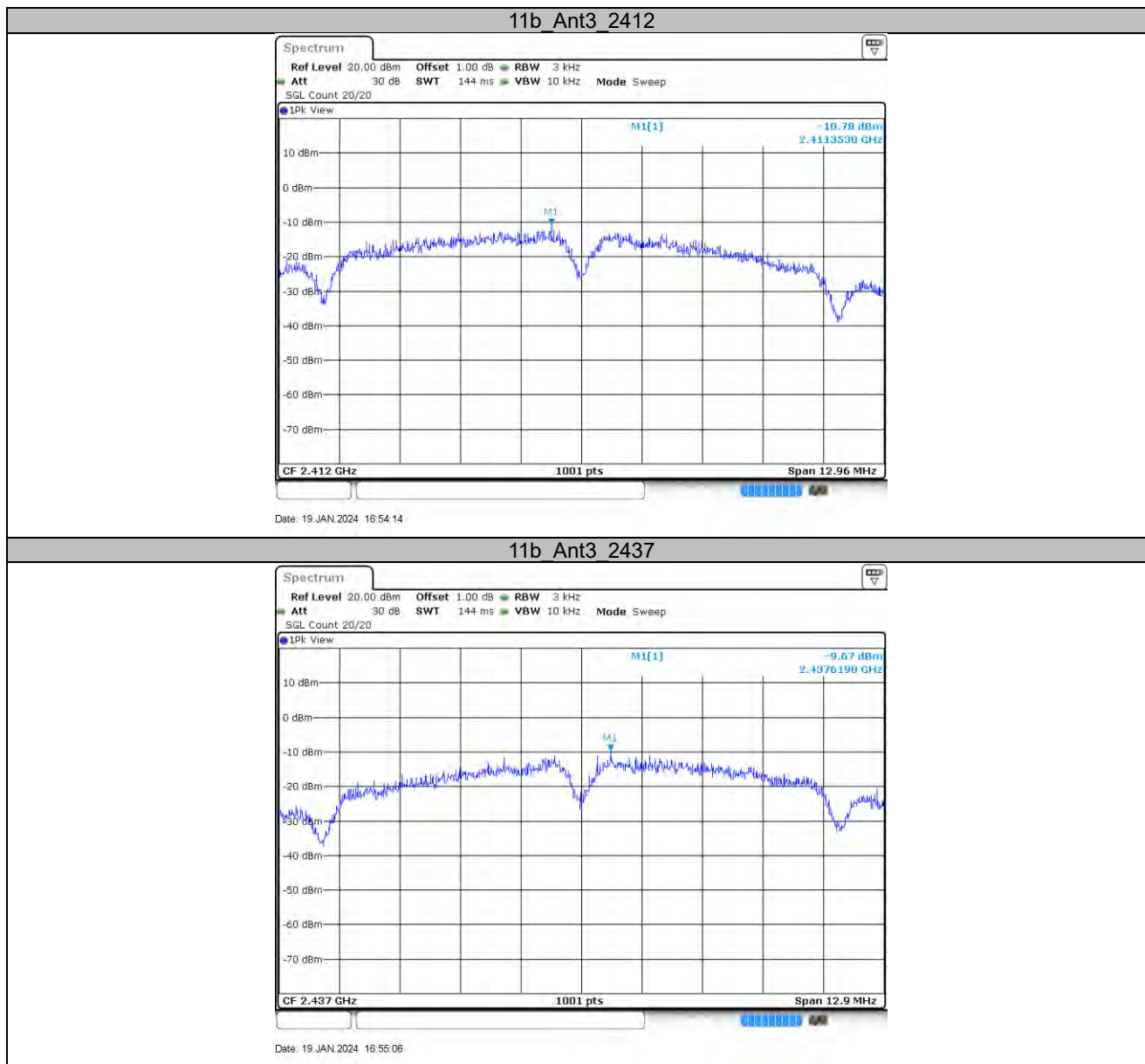
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Report No.: ZEWM2312001976RG04
Page: 47 of 135

Test Graphs



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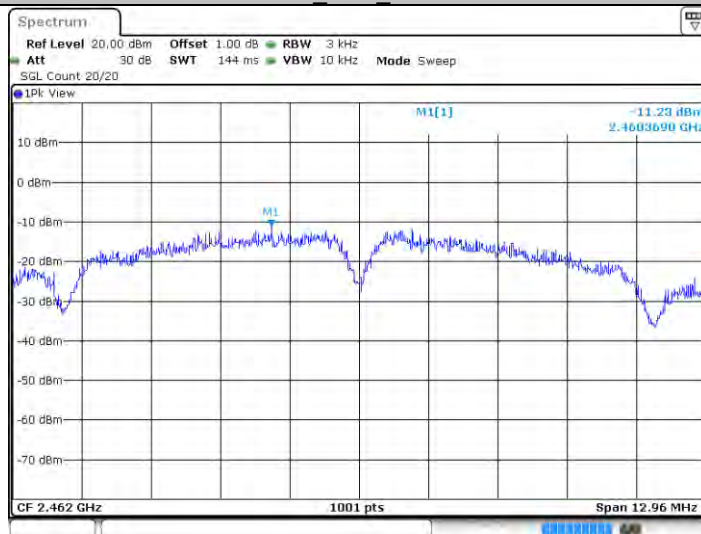
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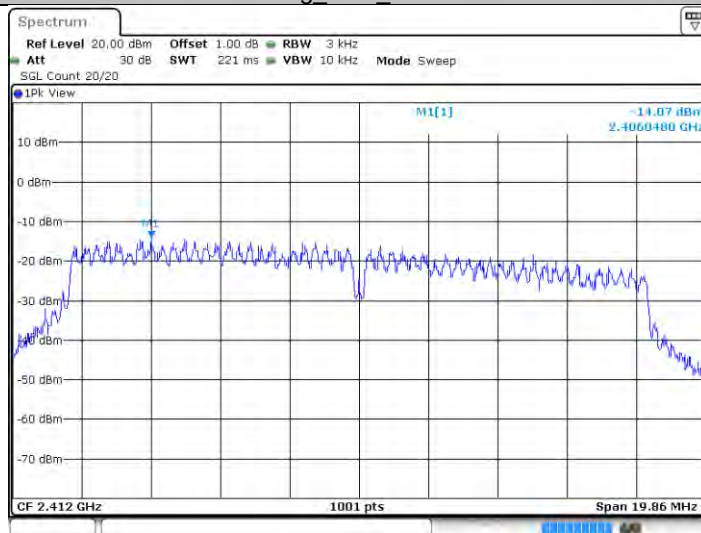
Report No.: ZEWM2312001976RG04
Page: 48 of 135

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Date: 19 JAN 2024 16:56:09

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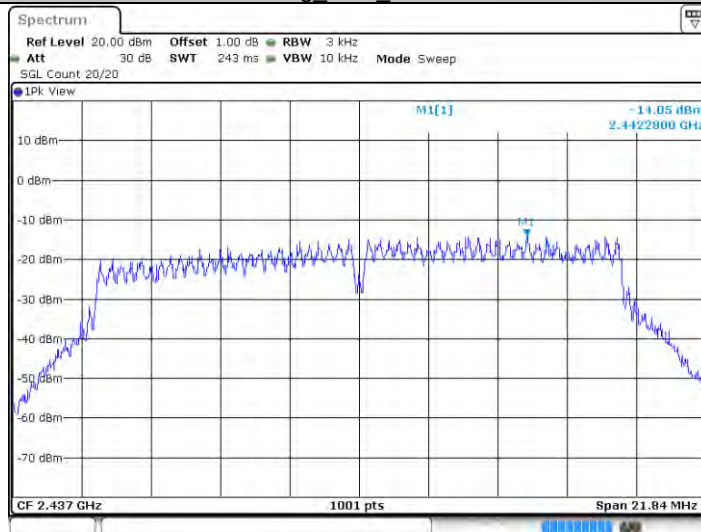
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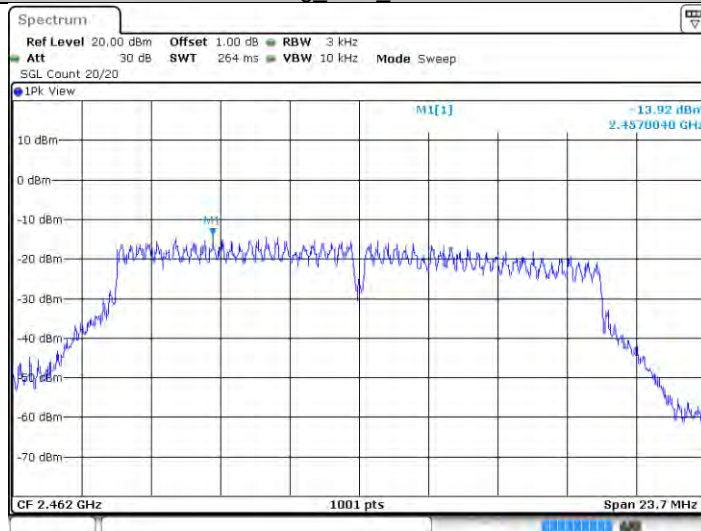
Report No.: ZEWM2312001976RG04
Page: 49 of 135

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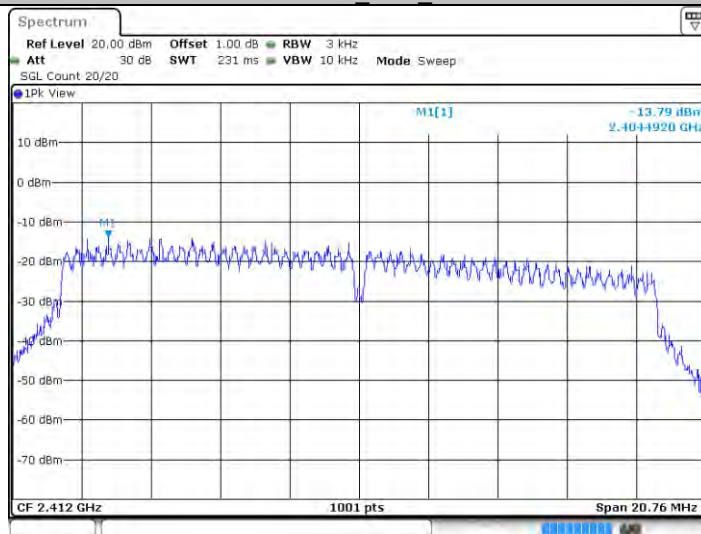
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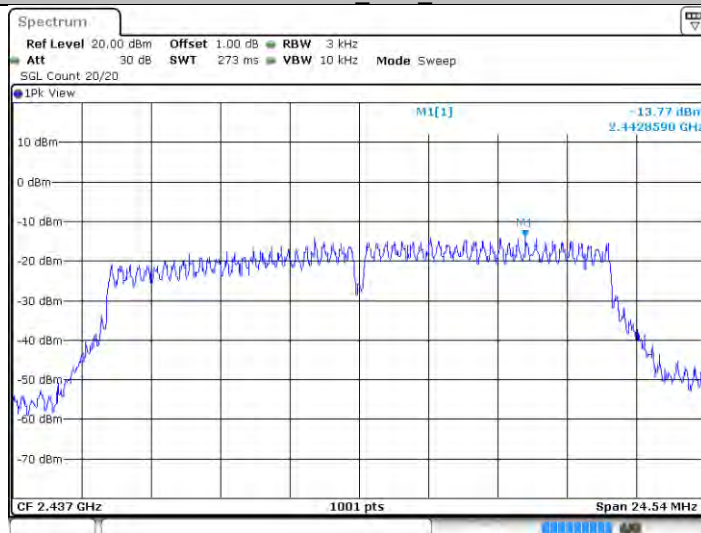
Report No.: ZEWM2312001976RG04
Page: 50 of 135

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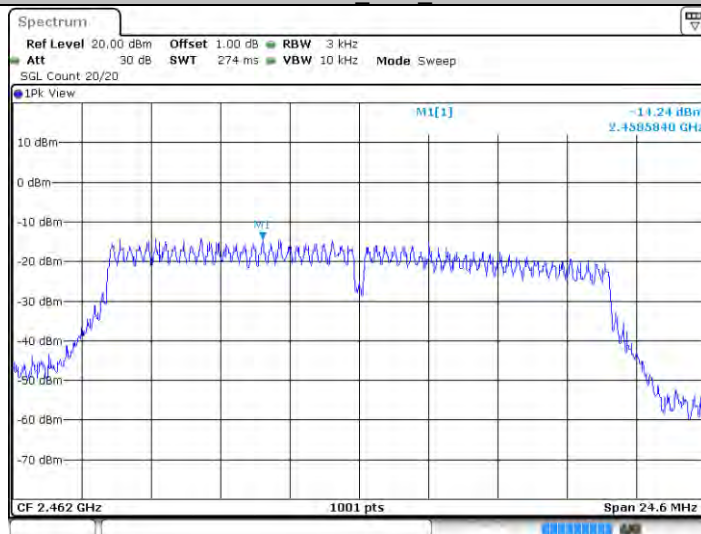
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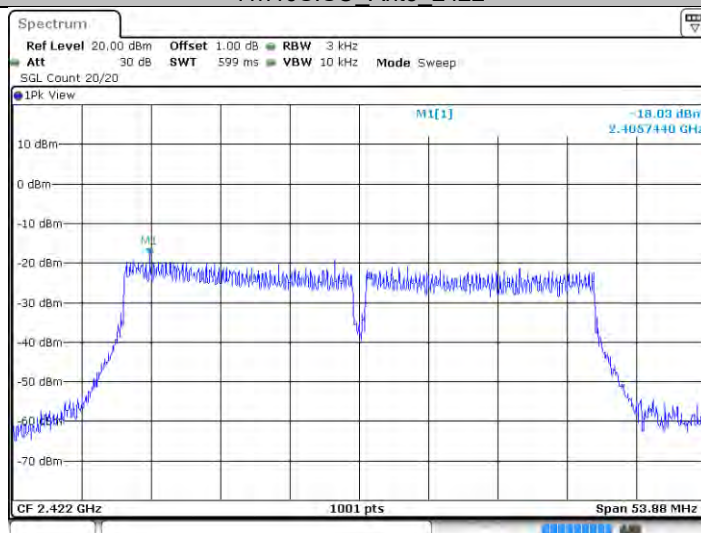
Report No.: ZEWM2312001976RG04
Page: 51 of 135

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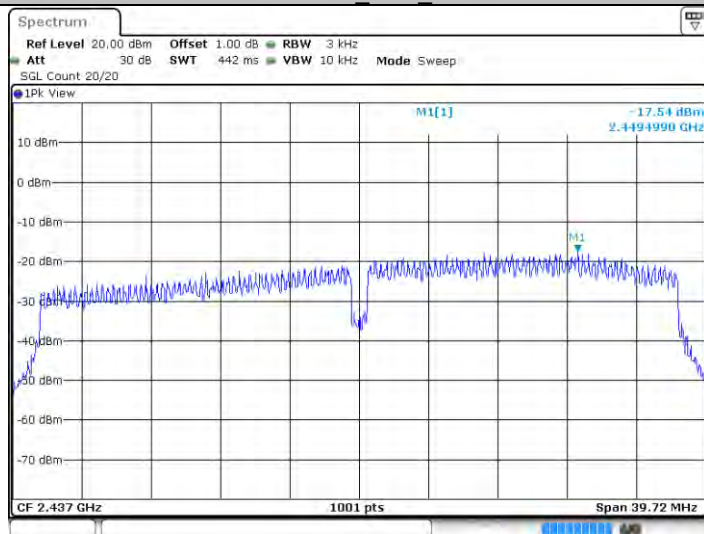
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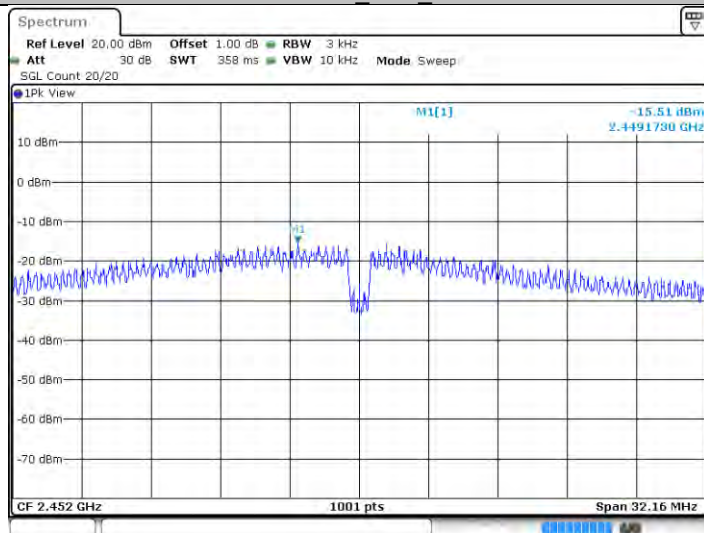
Report No.: ZEWM2312001976RG04
Page: 52 of 135

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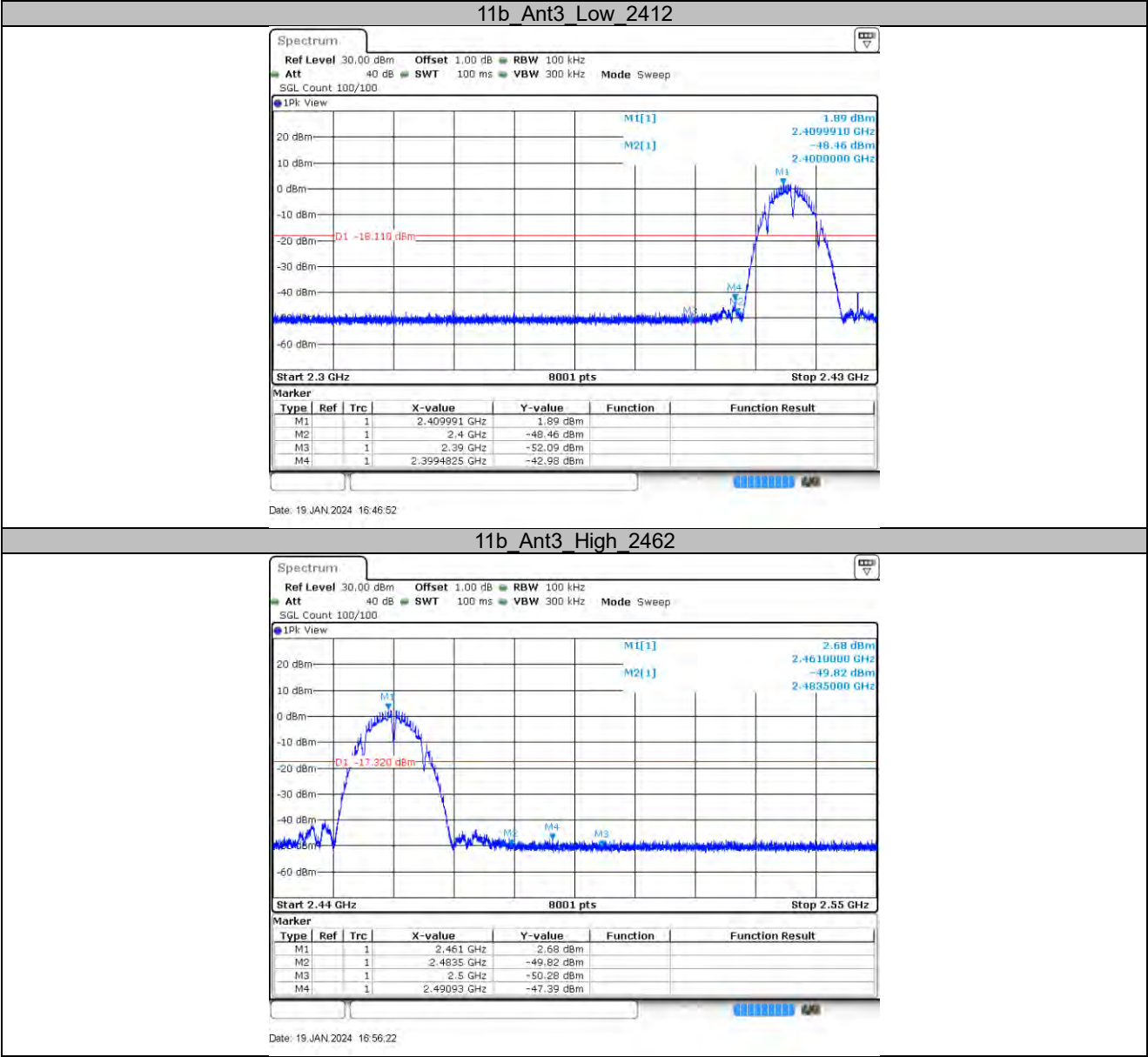
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Page: 53 of 135

Band edge measurements
Test Graphs



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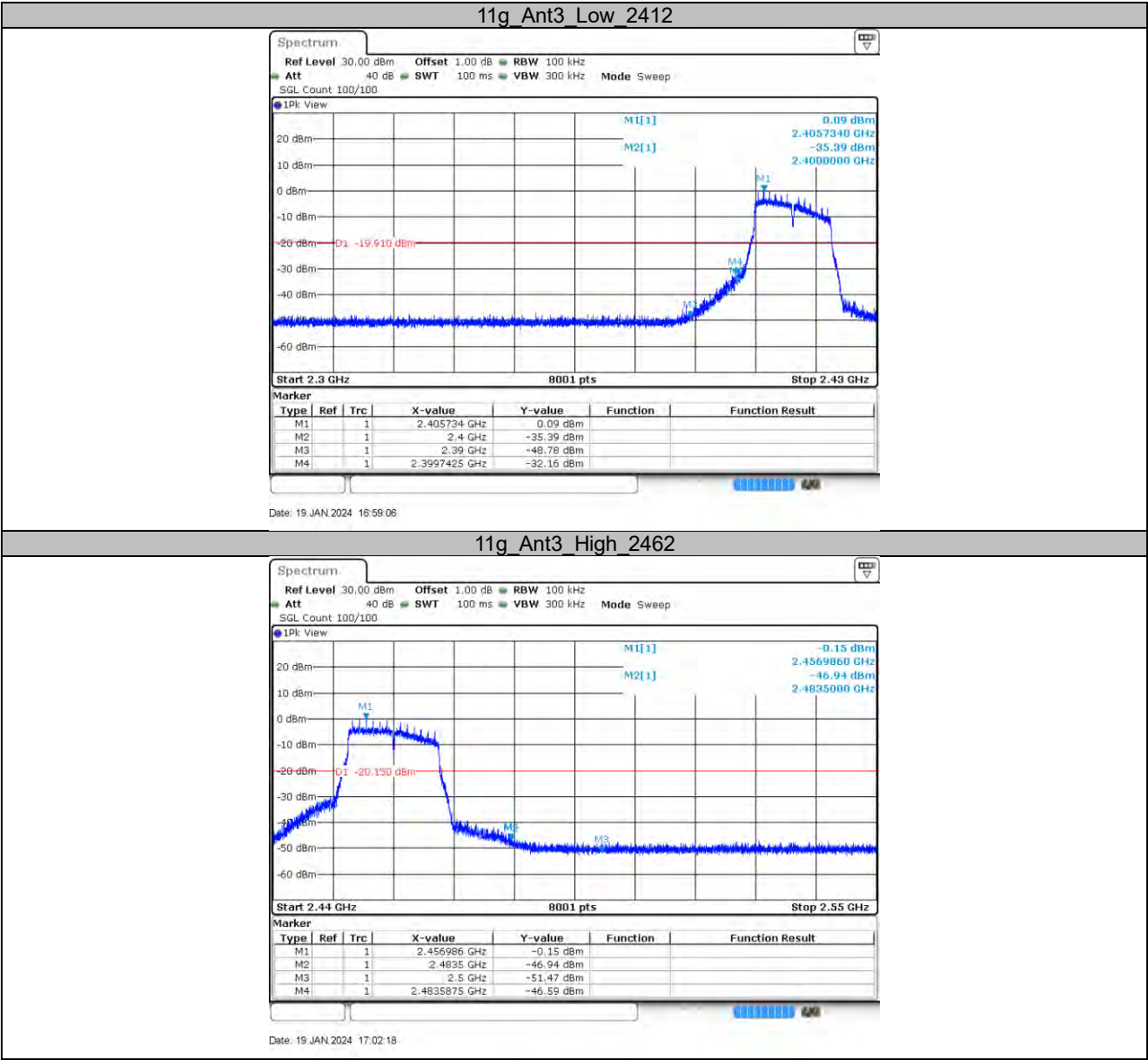
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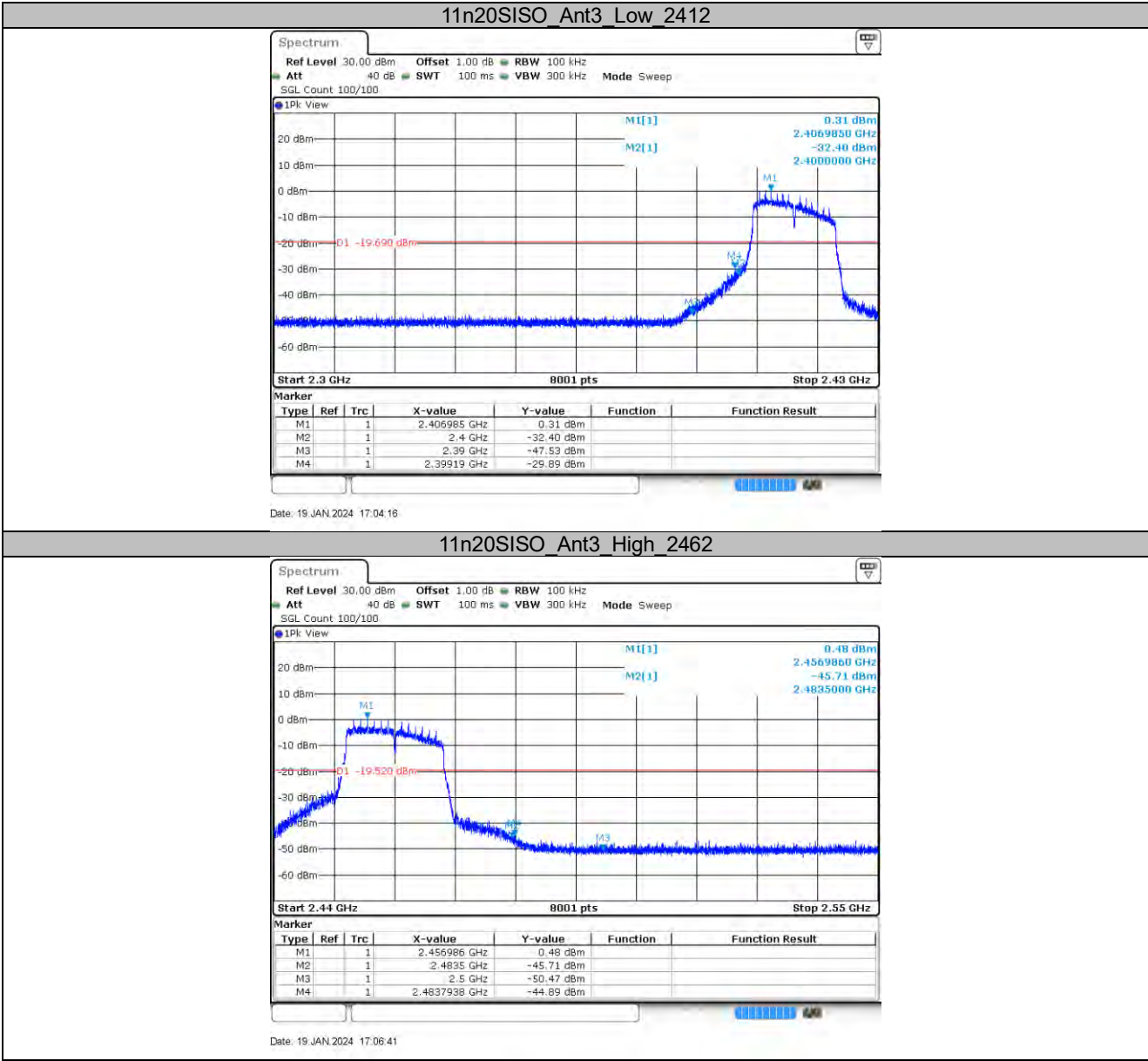
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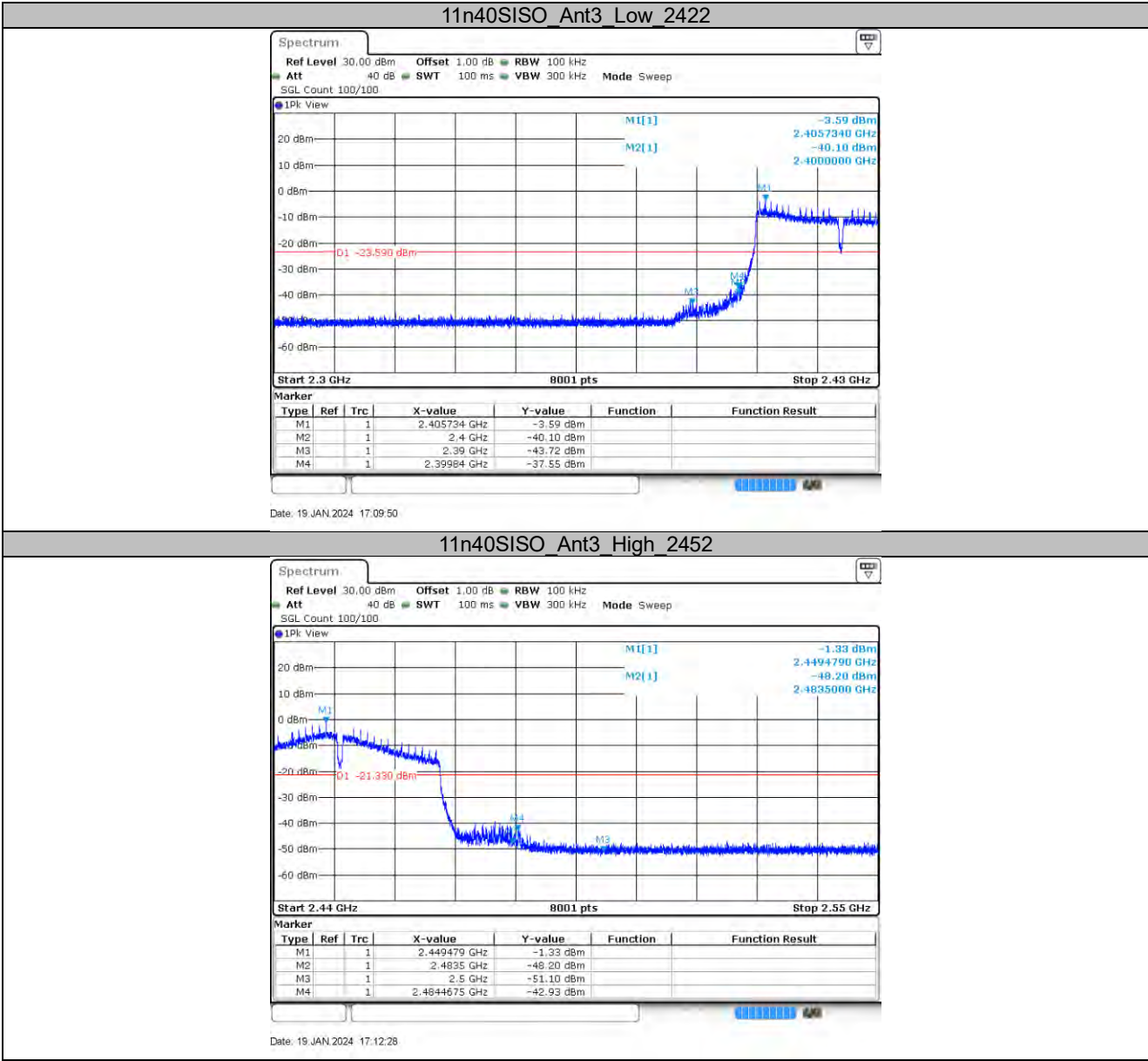
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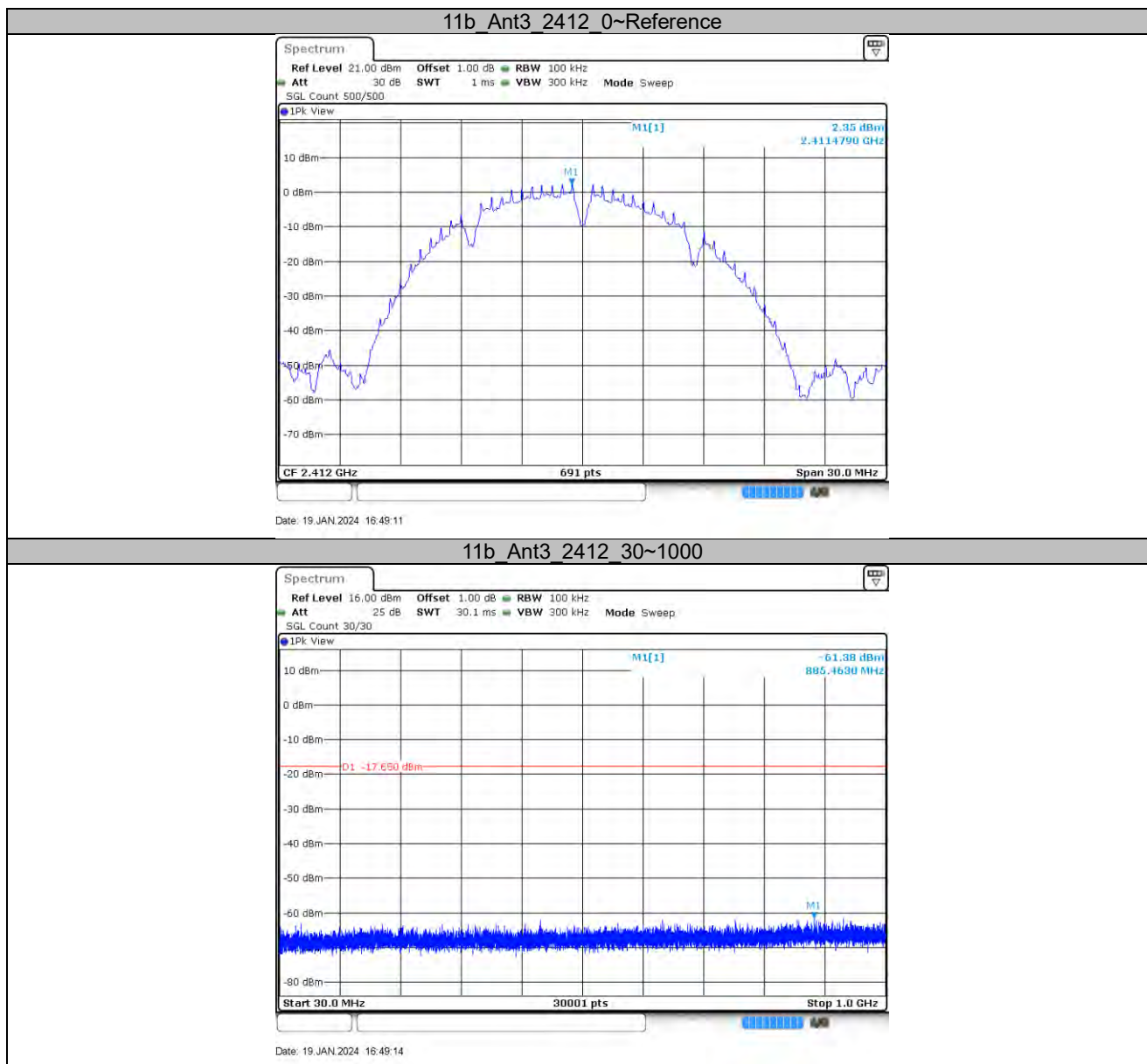
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Report No.: ZEWM2312001976RG04
Page: 57 of 135

Conducted Spurious Emission Test Graphs



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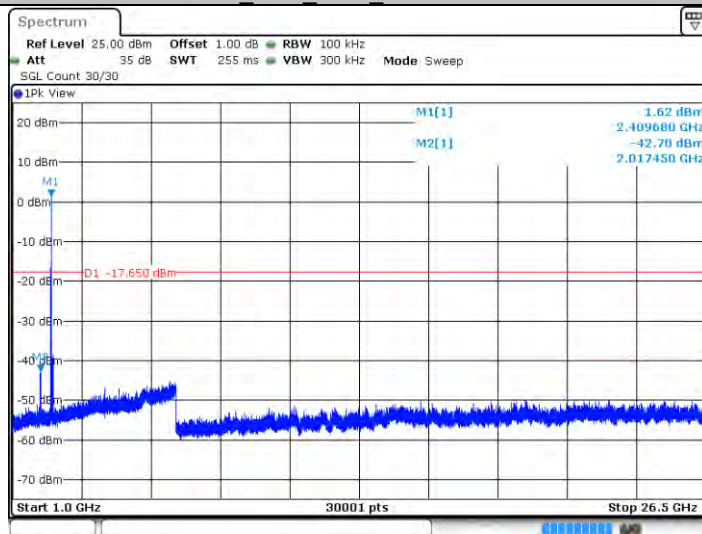
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Report No.: ZEWM2312001976RG04
Page: 58 of 135

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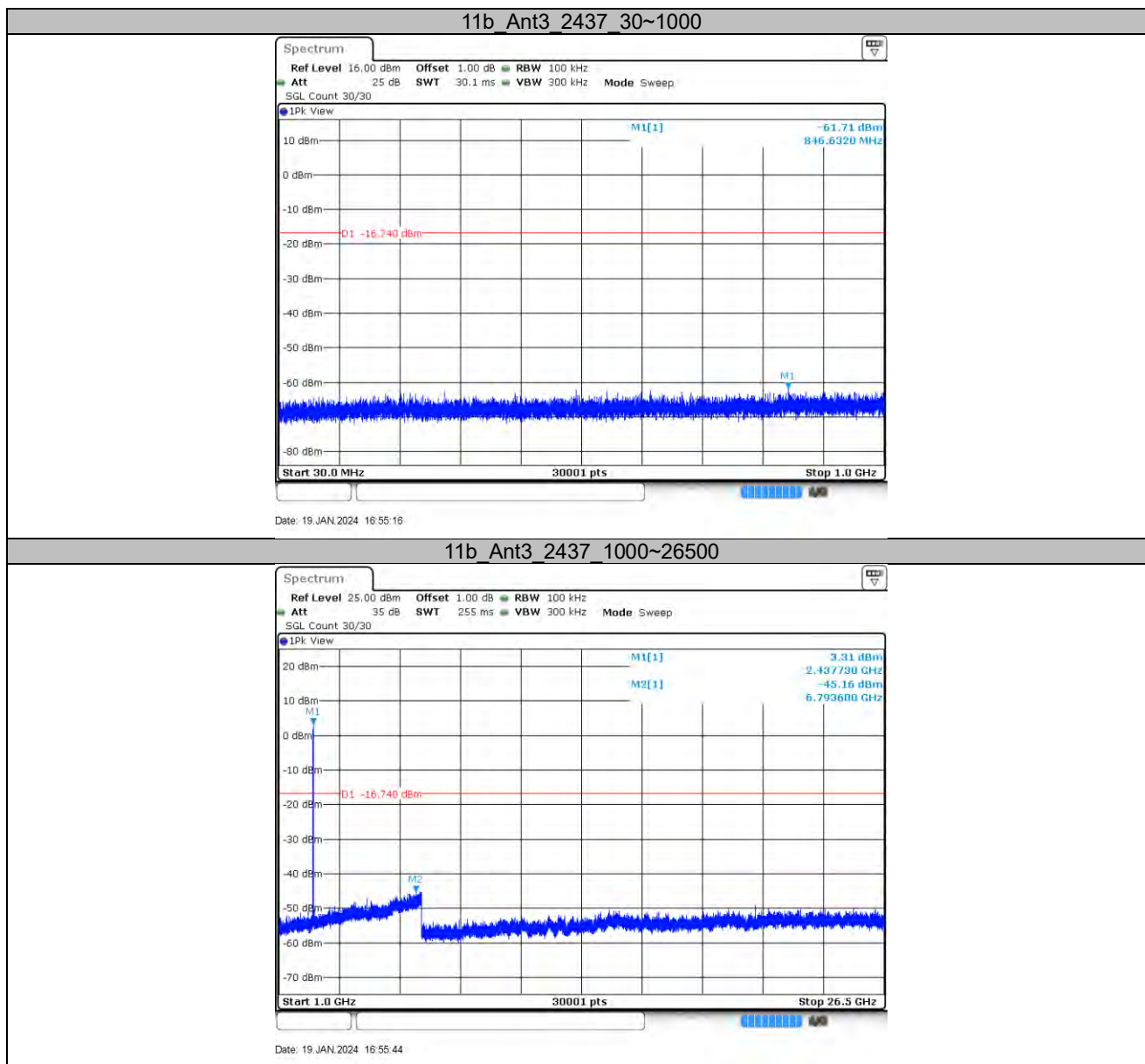
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Report No.: ZEWM2312001976RG04
Page: 59 of 135



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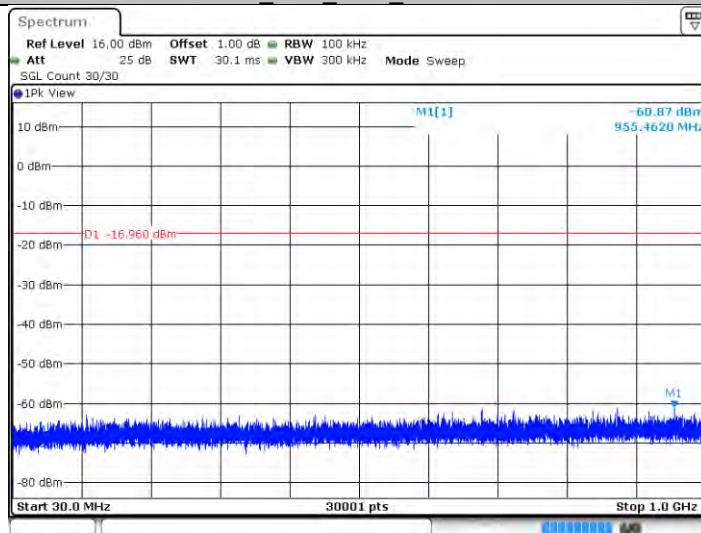
Report No.: ZEWM2312001976RG04
Page: 60 of 135

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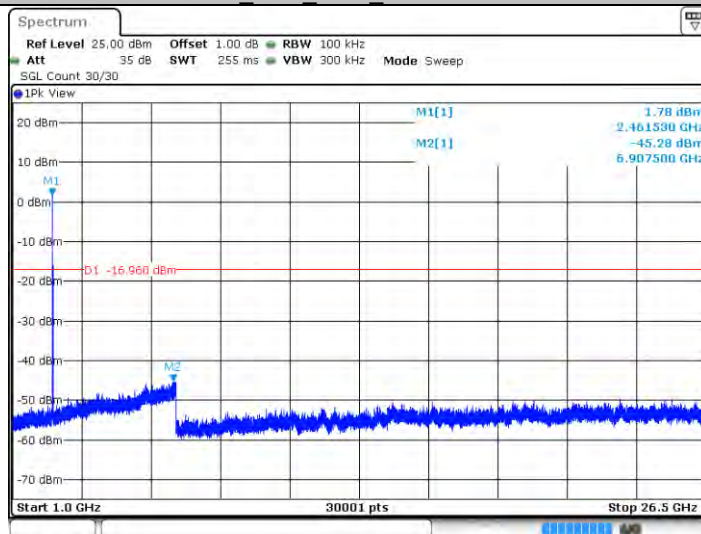
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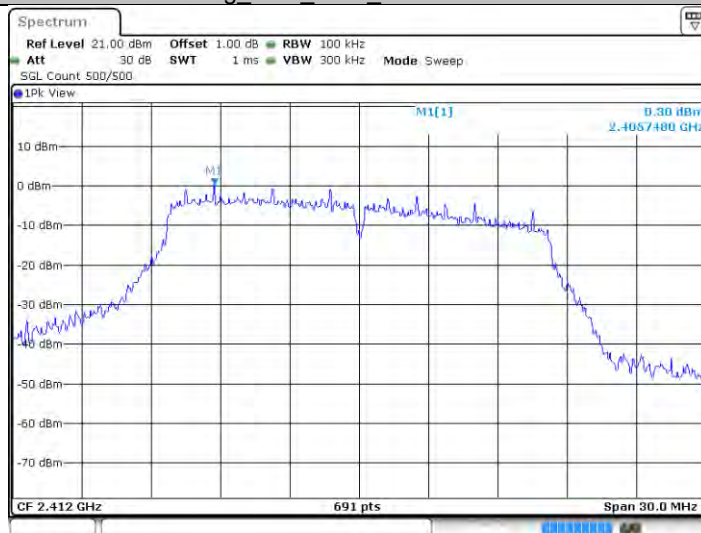
Report No.: ZEWM2312001976RG04
Page: 61 of 135

11b_Ant3_2462_1000~26500



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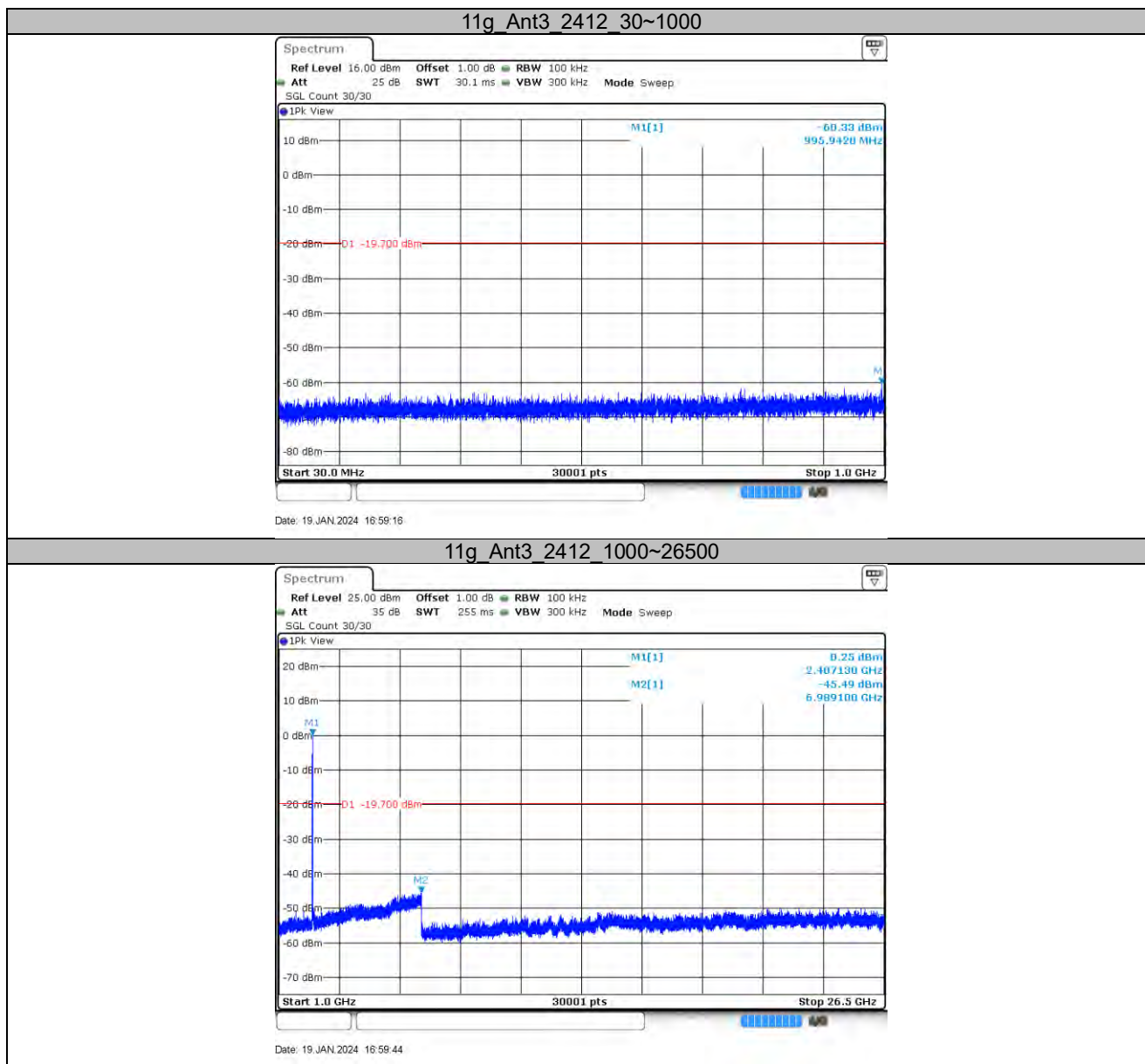
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Report No.: ZEWM2312001976RG04
Page: 62 of 135



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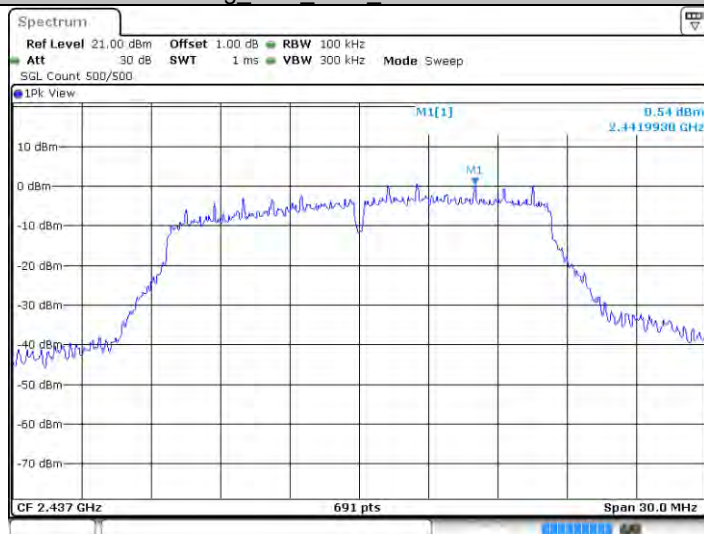
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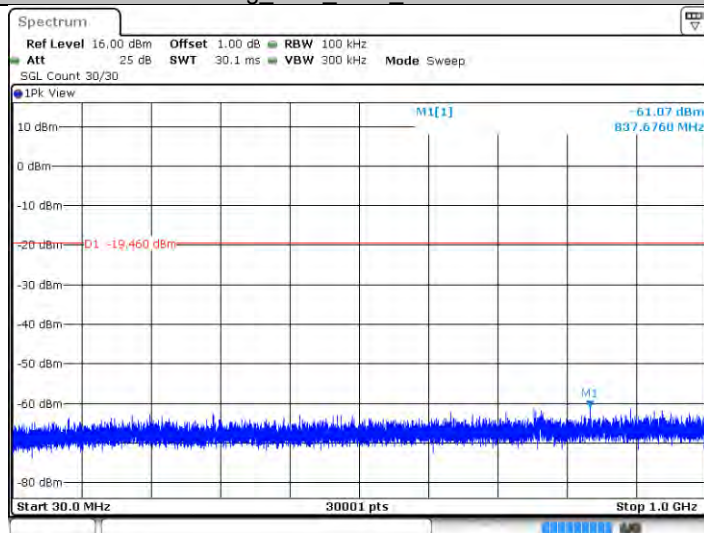
Report No.: ZEWM2312001976RG04
Page: 63 of 135

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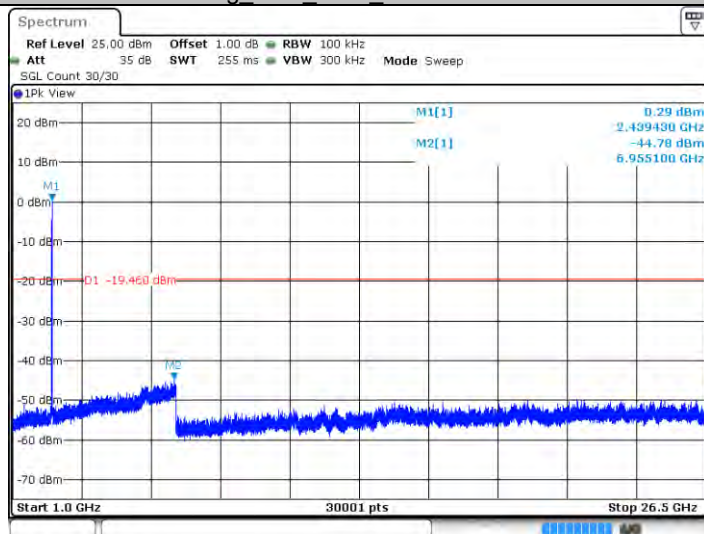
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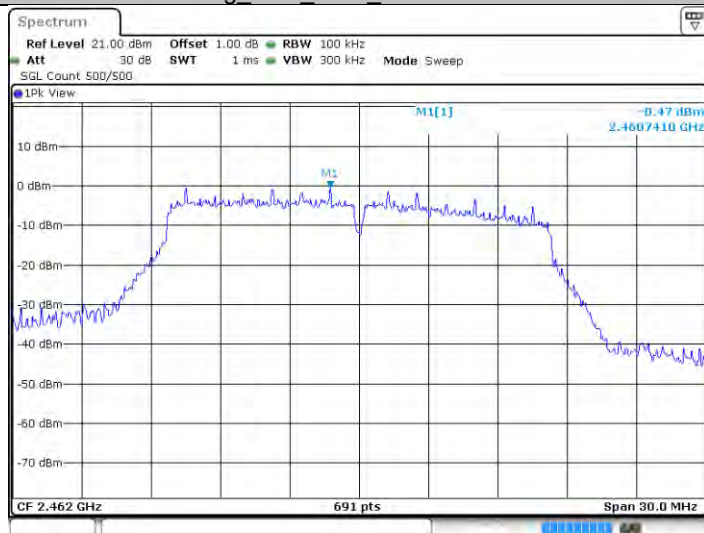
Report No.: ZEWM2312001976RG04
Page: 64 of 135

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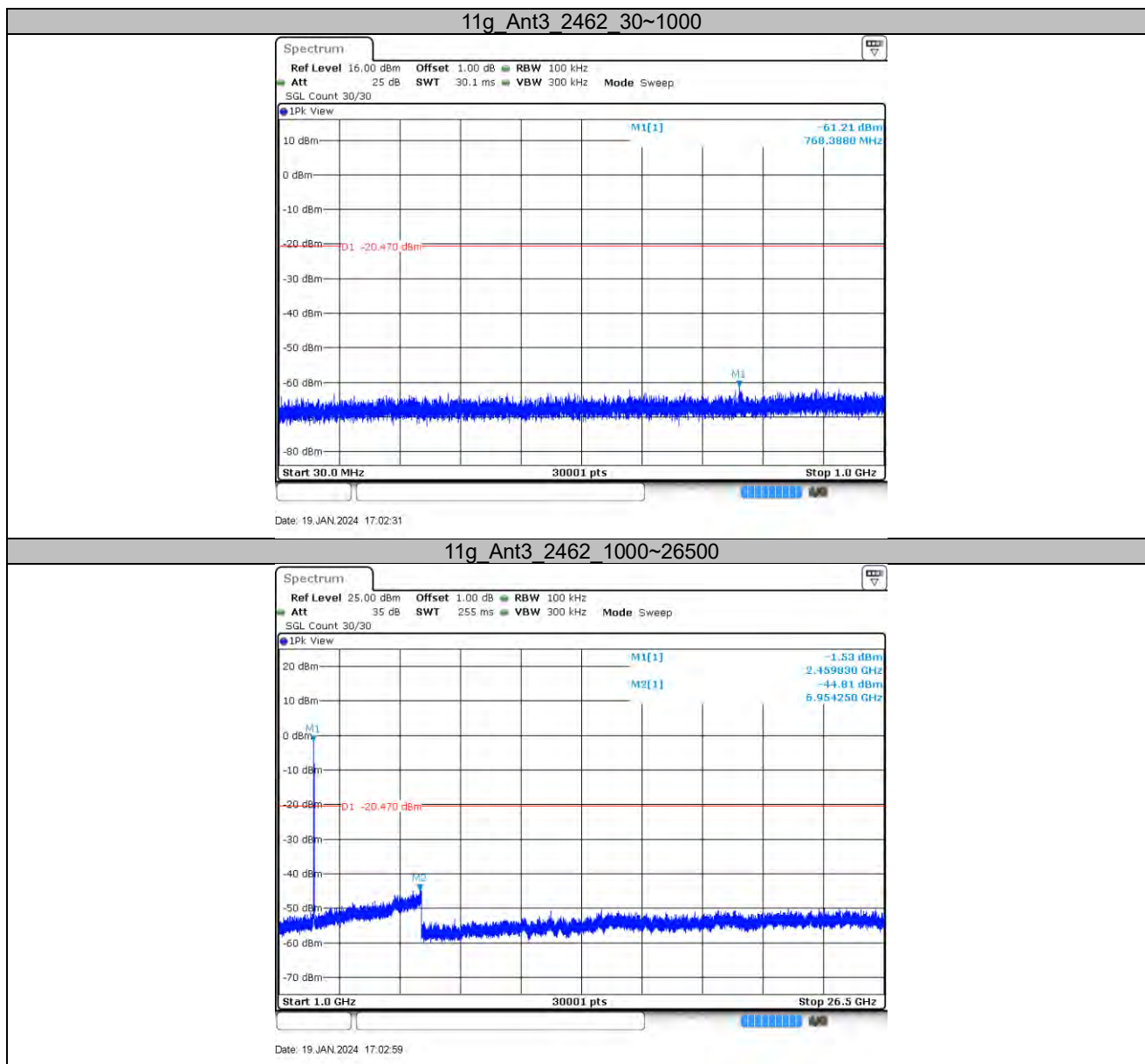
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Report No.: ZEWM2312001976RG04
Page: 65 of 135



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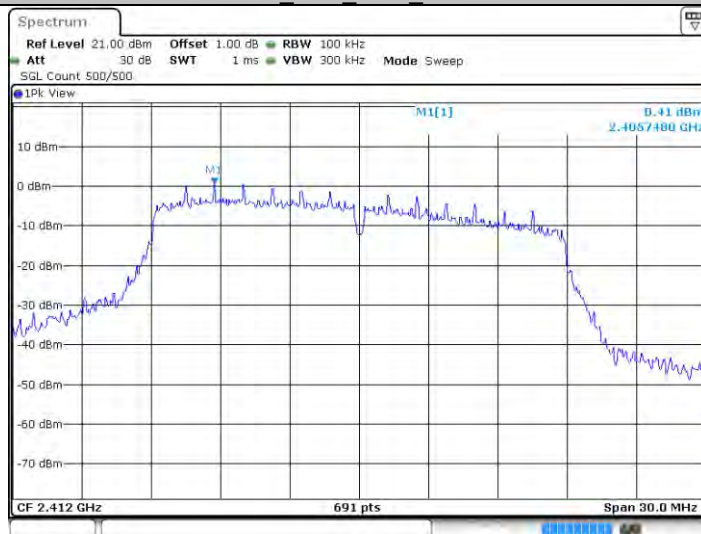
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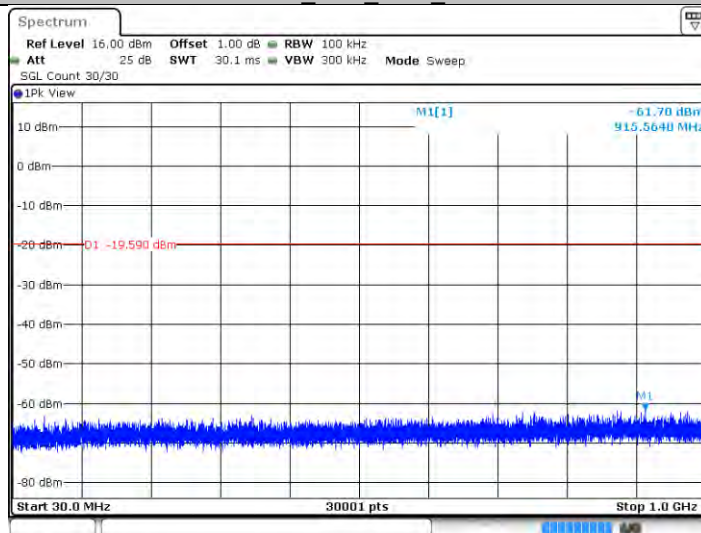
Report No.: ZEWM2312001976RG04
Page: 66 of 135

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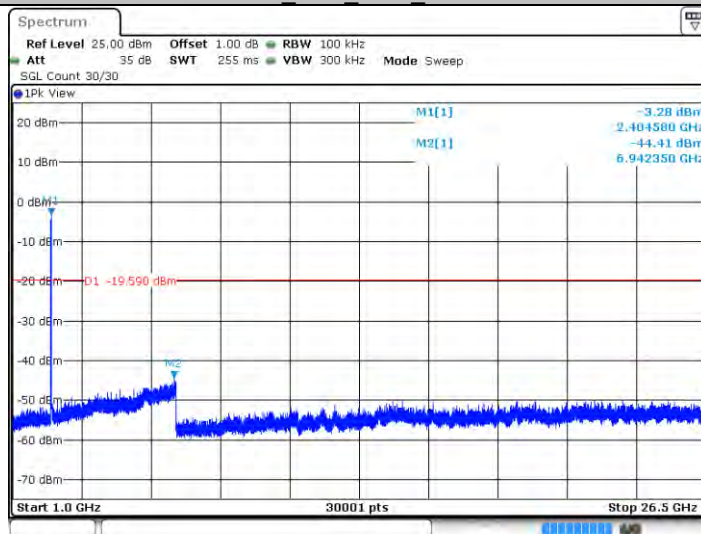
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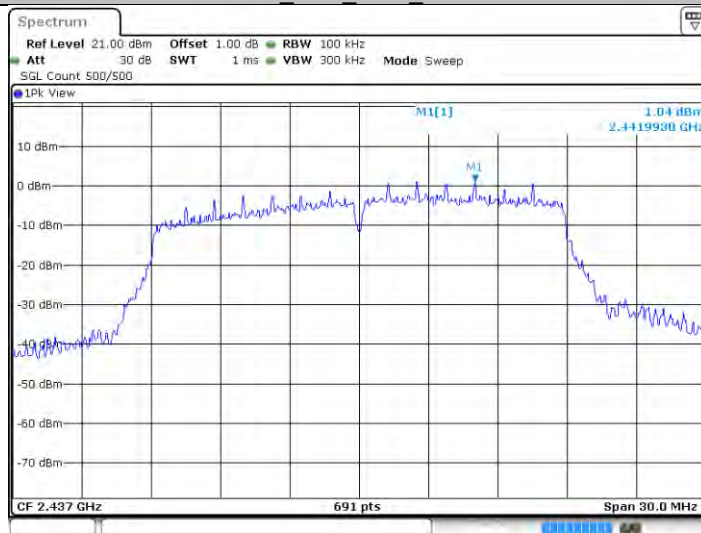
Report No.: ZEWM2312001976RG04
Page: 67 of 135

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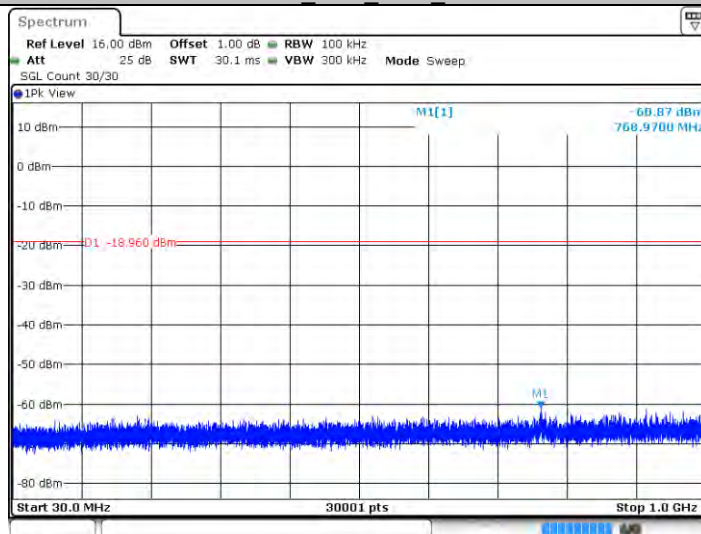
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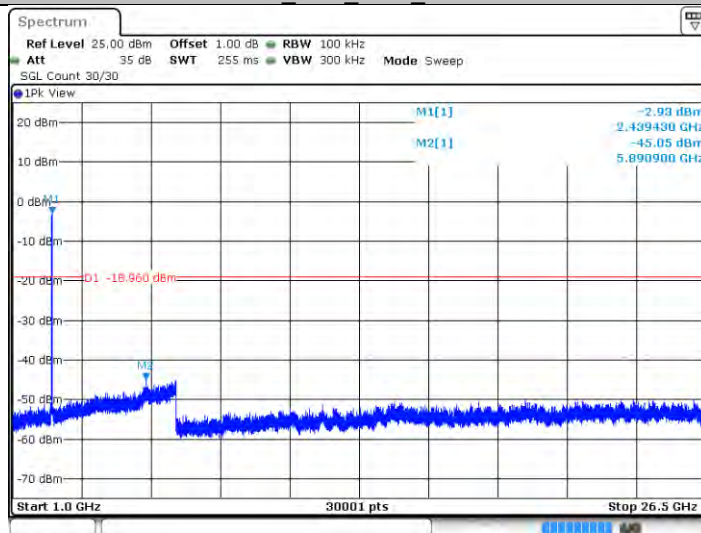
Report No.: ZEWM2312001976RG04
Page: 68 of 135

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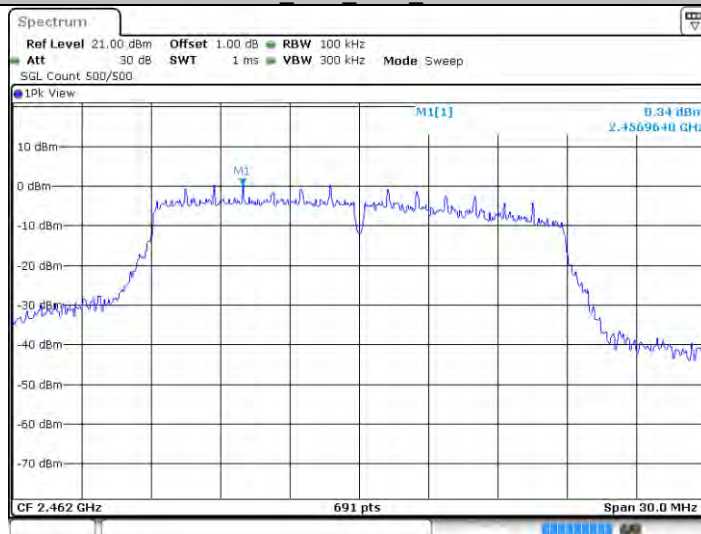
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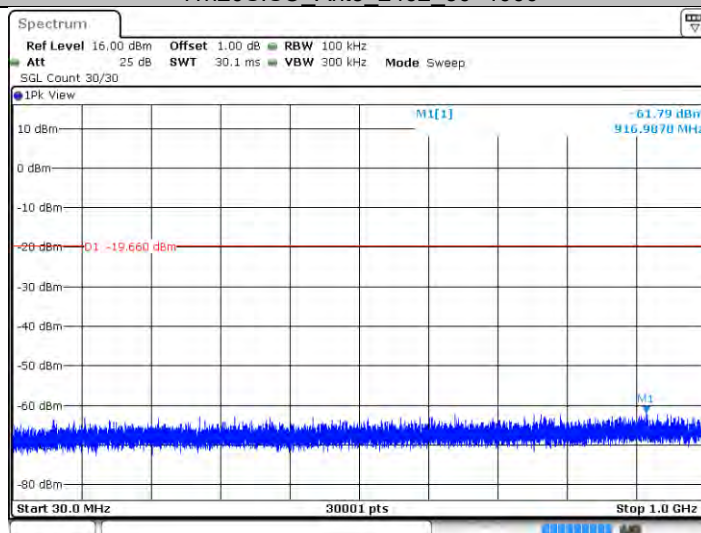
Report No.: ZEWM2312001976RG04
Page: 69 of 135

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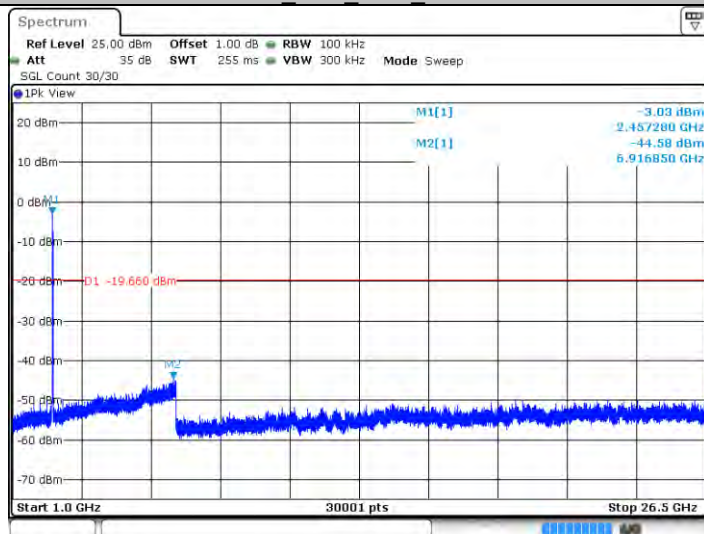
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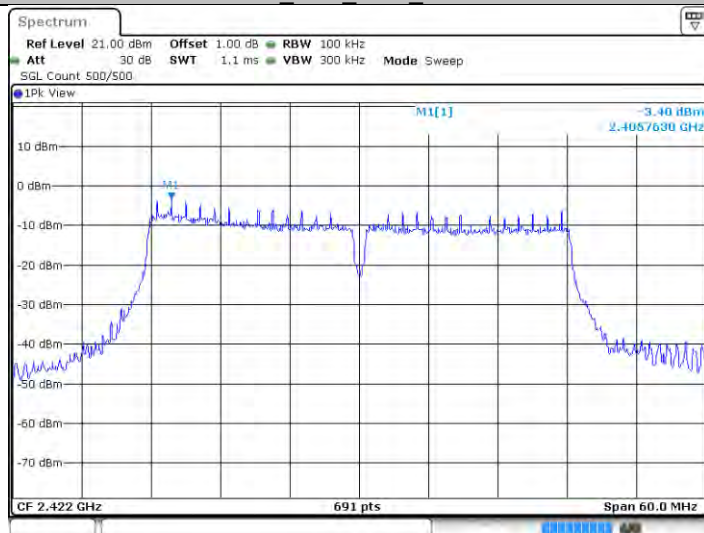
Report No.: ZEWM2312001976RG04
Page: 70 of 135

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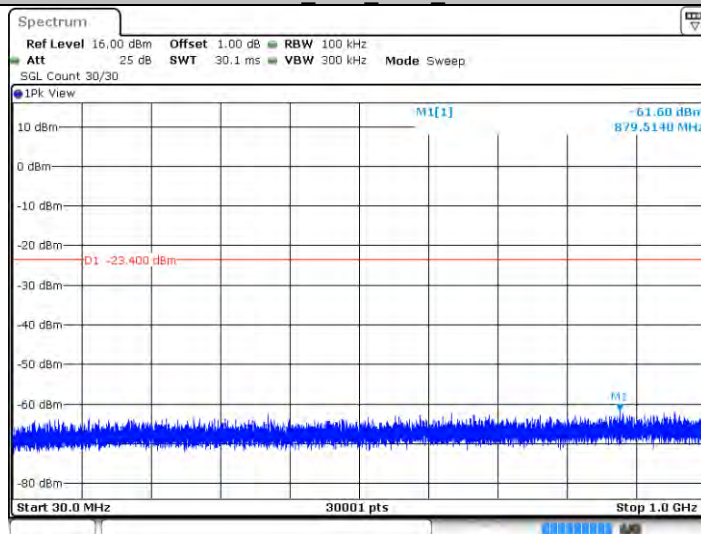
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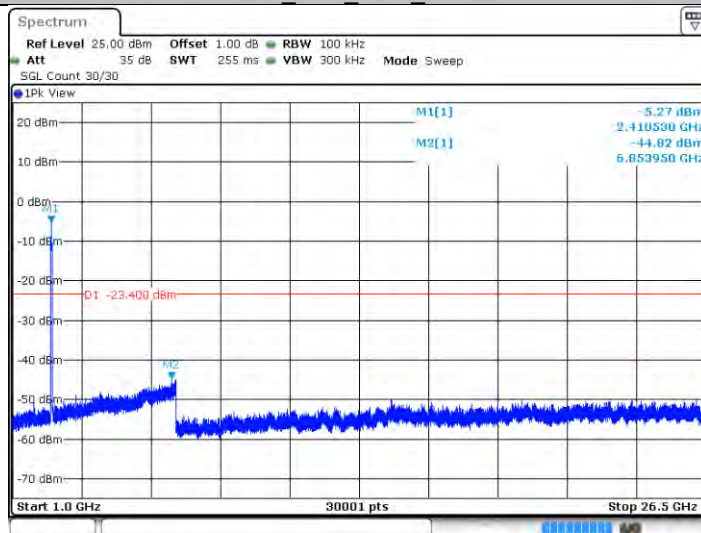
Report No.: ZEWM2312001976RG04
Page: 71 of 135

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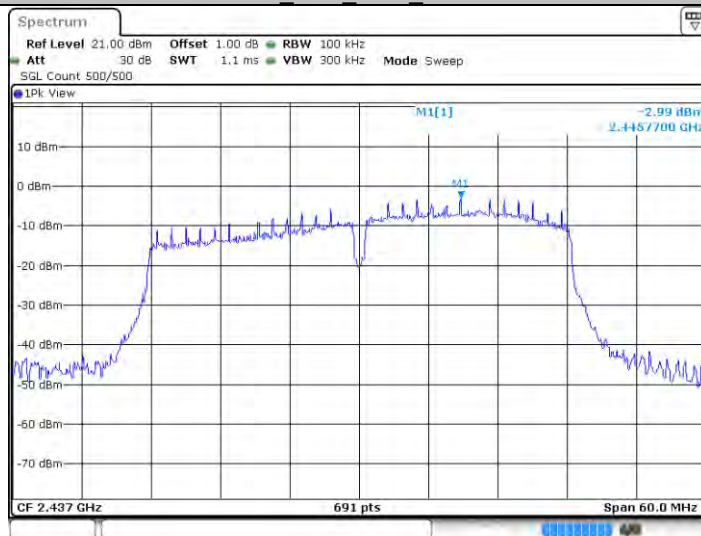
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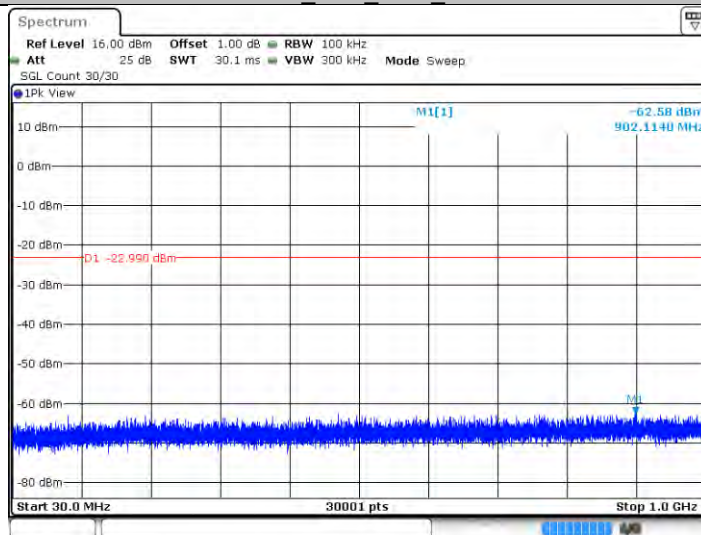
Report No.: ZEWM2312001976RG04
Page: 72 of 135

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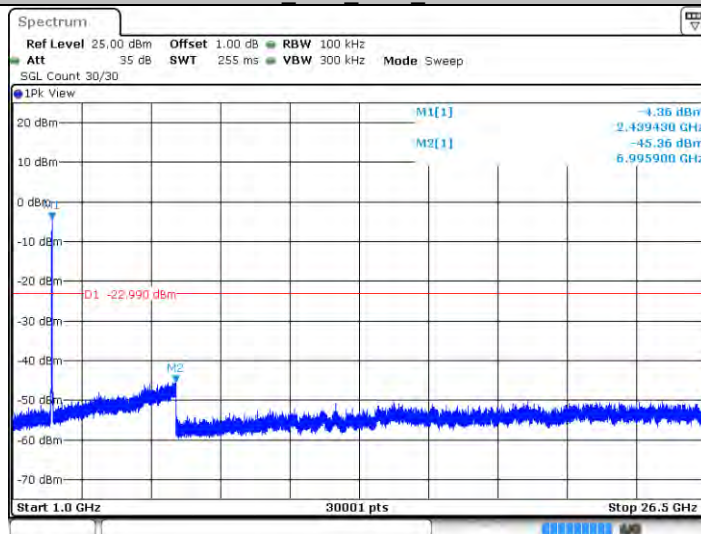
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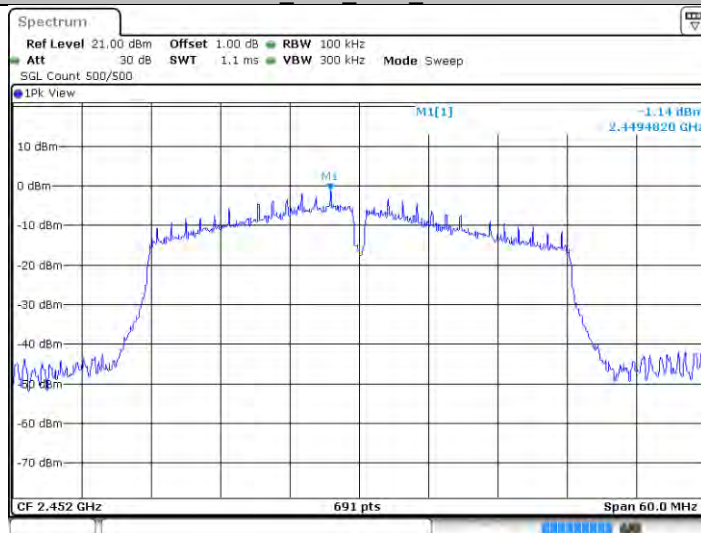
Report No.: ZEWM2312001976RG04
Page: 73 of 135

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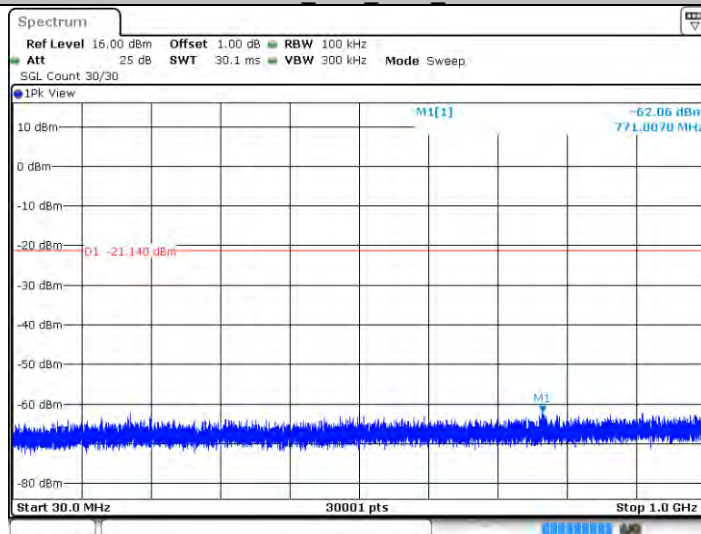
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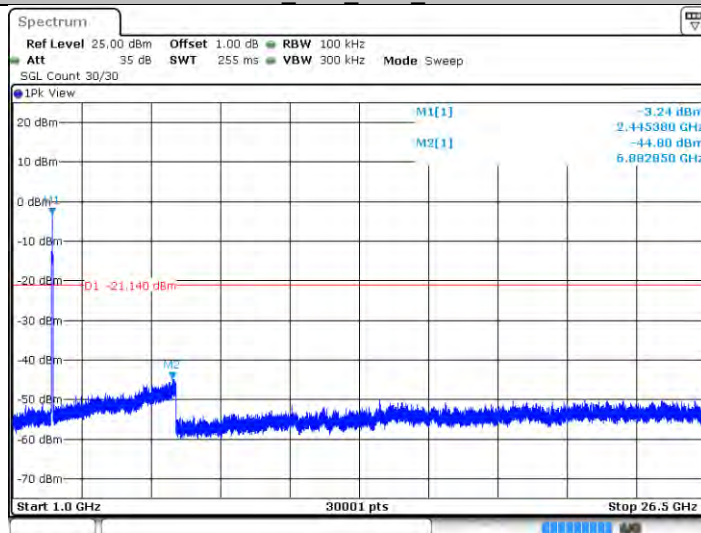
Report No.: ZEWM2312001976RG04
Page: 74 of 135

11n40SISO_Ant3_2452_30~1000



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11n40SISO_Ant3_2452_1000~26500



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Report No.: ZEWM2312001976RG04
Page: 75 of 135

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant3	2412	8.38	8.42	99.52
11g	Ant3	2412	1.39	1.44	96.53
11n20SISO	Ant3	2412	1.30	1.35	96.30
11n40SISO	Ant3	2422	0.64	0.69	92.75

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.38	8.42	99.52	0.11933	10Hz*
11g	1.39	1.44	96.53	0.71942	0.8KHz
11n20SISO	1.30	1.35	96.30	0.76923	0.8KHz
11n40SISO	0.64	0.69	92.75	1.56250	1.6KHz

*Duty cycle > 98% VBW setting=10Hz



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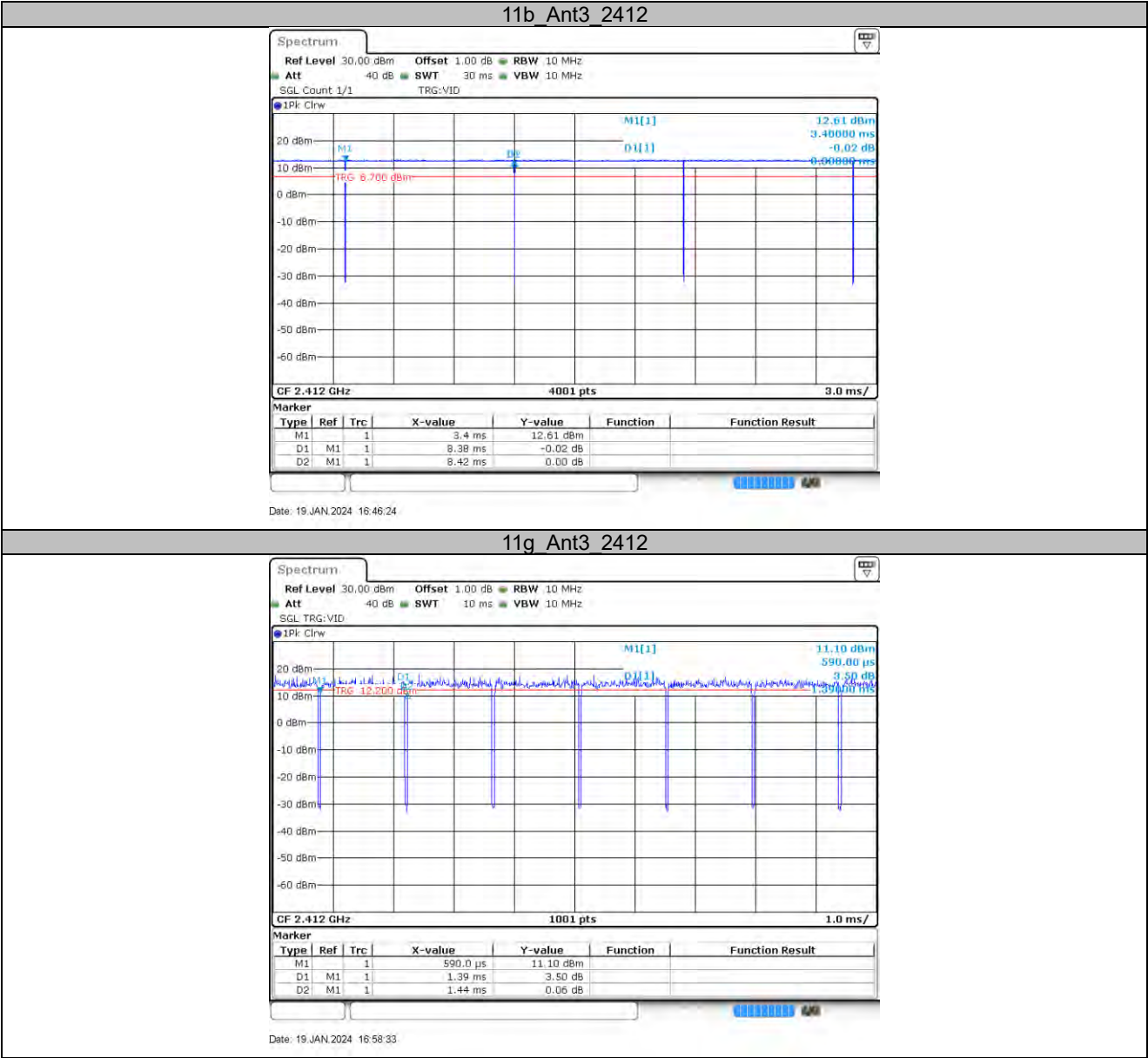
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Report No.: ZEWM2312001976RG04
Page: 76 of 135

Test Graphs



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Page: 77 of 135



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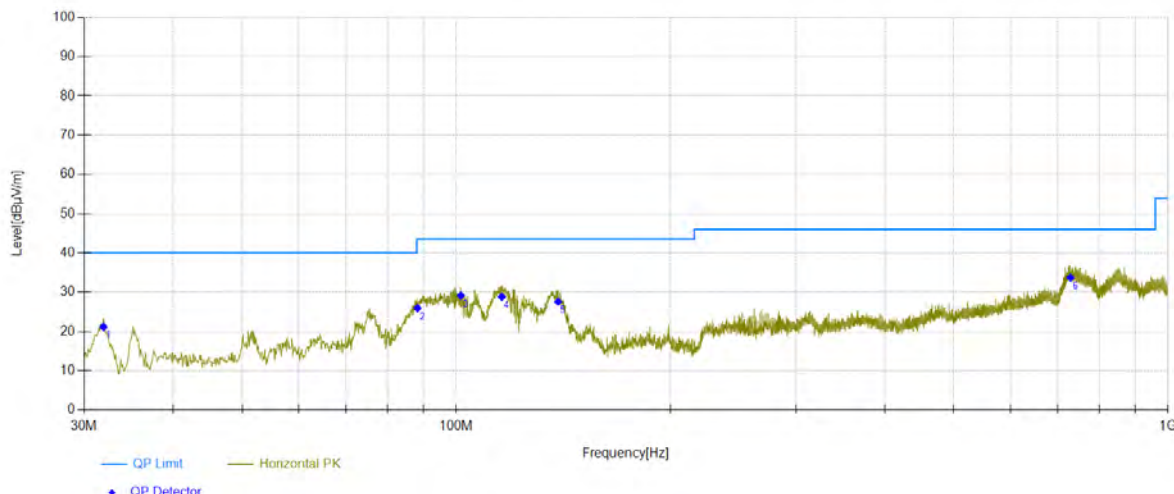
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Report No.: ZEWM2312001976RG04
Page: 78 of 135

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n20_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	31.9402	37.69	-25.35	8.85	21.19	40.00	18.81	Horizontal
2	88.2058	36.94	-24.46	13.47	25.95	43.50	17.55	Horizontal
3	101.4962	40.86	-24.55	12.83	29.14	43.50	14.36	Horizontal
4	115.8536	42.04	-24.29	11.09	28.84	43.50	14.66	Horizontal
5	139.0389	38.81	-23.97	12.76	27.60	43.50	15.90	Horizontal
6	729.3429	25.63	-20.84	28.94	33.73	46.00	12.27	Horizontal



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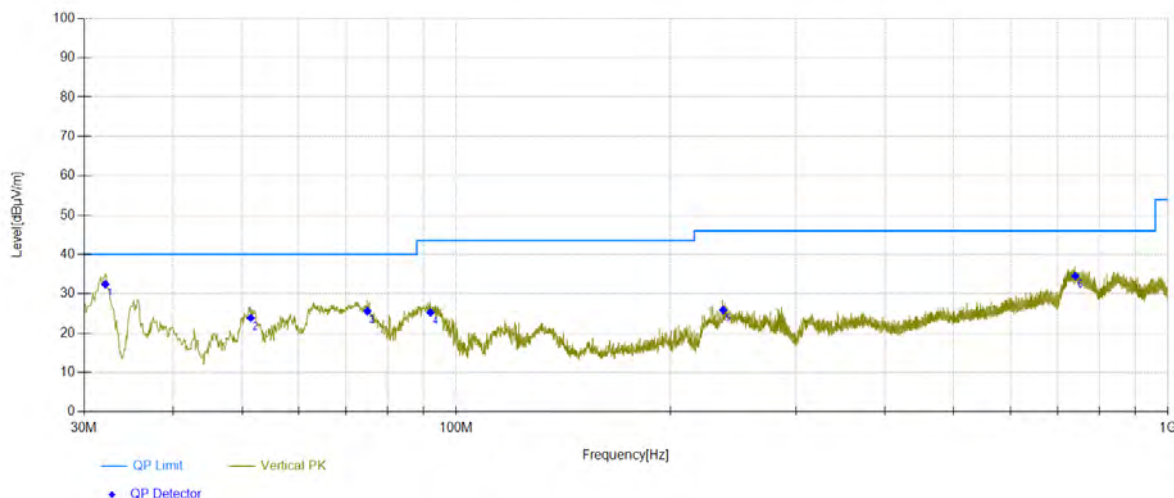
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Report No.: ZEWM2312001976RG04
Page: 79 of 135



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	32.1342	49	-25.35	8.81	32.46	40.00	7.54	Vertical
2	51.4391	37.85	-25.06	11.07	23.86	40.00	16.14	Vertical
3	75.0125	38.25	-24.50	11.80	25.55	40.00	14.45	Vertical
4	91.9892	35.37	-24.47	14.37	25.27	43.50	18.23	Vertical
5	237.1157	36.19	-23.42	13.10	25.87	46.00	20.13	Vertical
6	740.9841	26.61	-20.74	28.65	34.52	46.00	11.48	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 Value = Reading(dBμV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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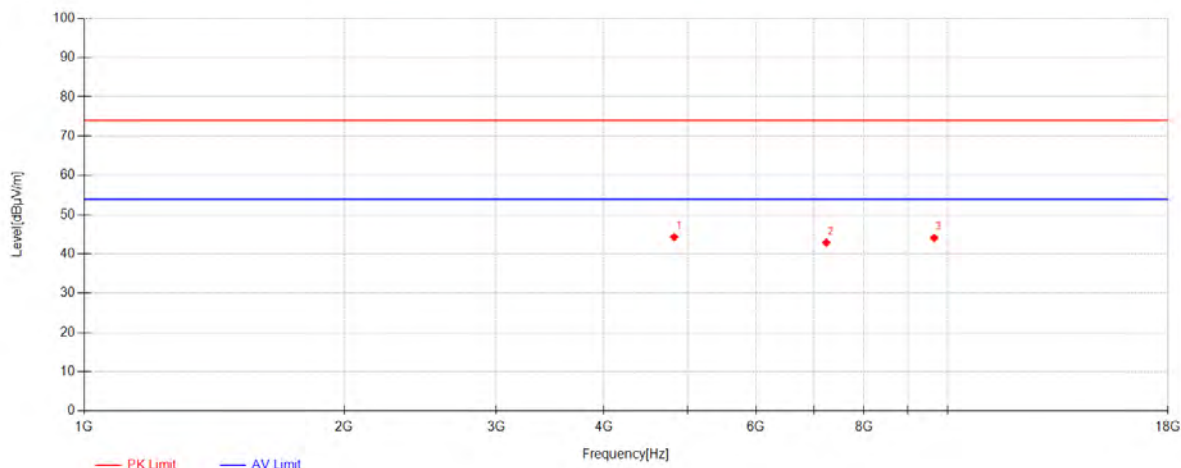


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Report No.: ZEWM2312001976RG04
Page: 80 of 135

Transmitter emission Above 1GHz

802.11b_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4823.25	60.42	30.98	-47.08	44.32	74.00	29.68	Horizontal
2	7236.0000	52.23	36.08	-45.41	42.90	74.00	31.10	Horizontal
3	9648.0000	48.29	37.59	-41.80	44.08	74.00	29.92	Horizontal



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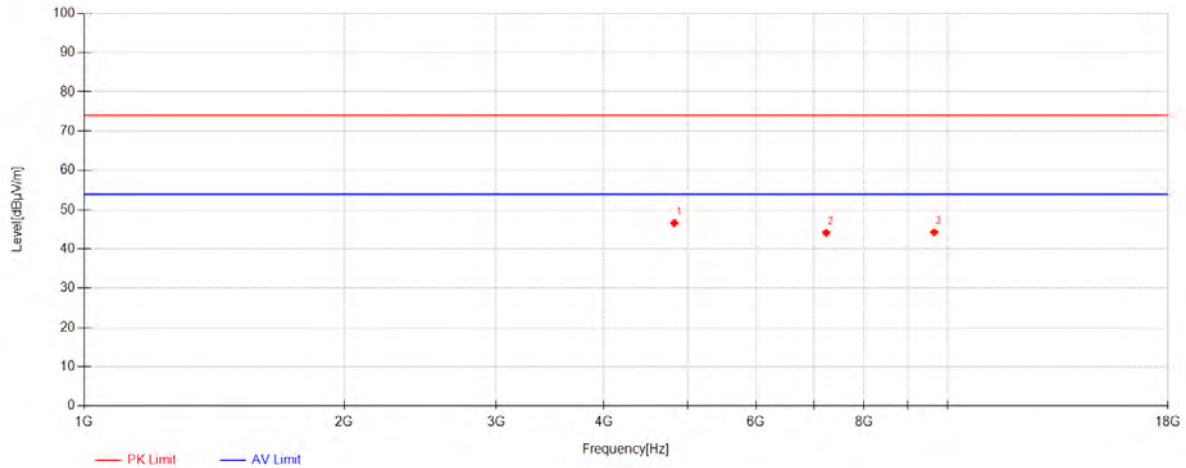
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Report No.: ZEWM2312001976RG04
Page: 81 of 135

802.11b_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	62.71	30.98	-47.08	46.61	74.00	27.39	Vertical
2	7236.0000	53.45	36.08	-45.41	44.12	74.00	29.88	Vertical
3	9648.0000	48.47	37.59	-41.80	44.26	74.00	29.74	Vertical



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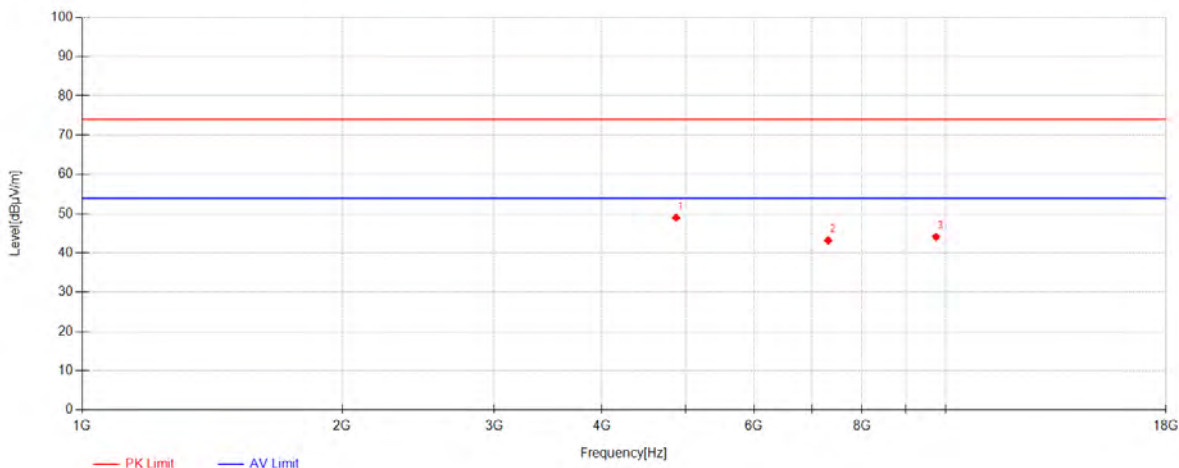
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Report No.: ZEWM2312001976RG04
Page: 82 of 135

802.11b_Channel 06



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.5	64.92	31.10	-47.02	49.00	74.00	25.00	Horizontal
2	7311.0000	52.49	36.17	-45.45	43.21	74.00	30.79	Horizontal
3	9748.0000	47.70	37.82	-41.41	44.11	74.00	29.89	Horizontal



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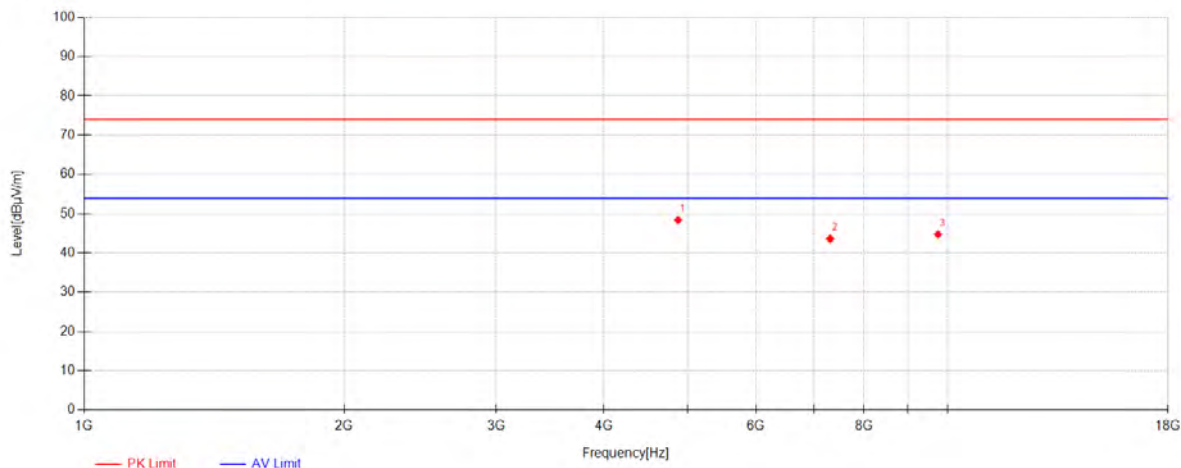
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Report No.: ZEWM2312001976RG04
Page: 83 of 135

802.11b_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.5	64.32	31.10	-47.02	48.40	74.00	25.60	Vertical
2	7311.0000	52.87	36.17	-45.45	43.59	74.00	30.41	Vertical
3	9748.0000	48.34	37.82	-41.41	44.75	74.00	29.25	Vertical



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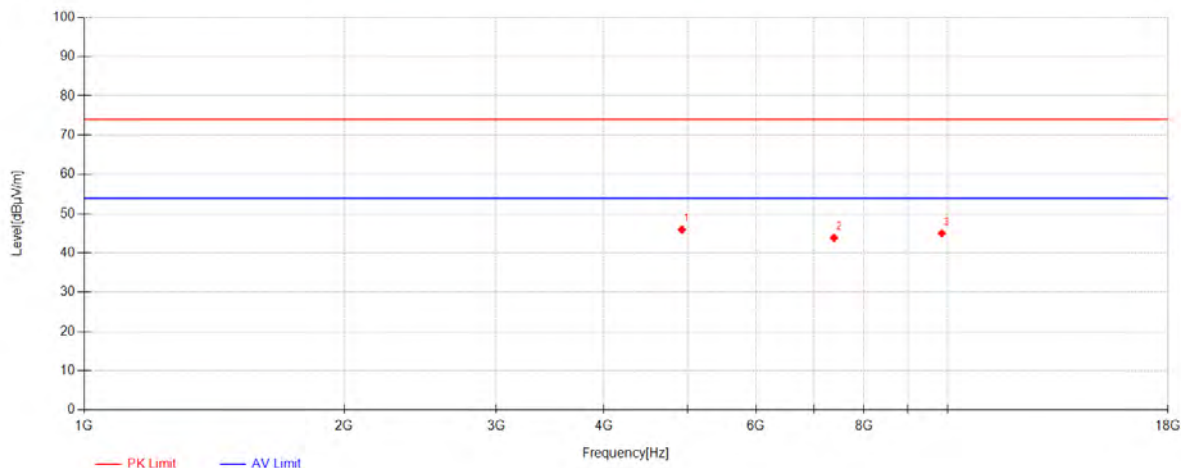
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Report No.: ZEWM2312001976RG04
Page: 84 of 135

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4923.75	61.78	31.22	-47.04	45.96	74.00	28.04	Horizontal
2	7386.0000	52.72	36.26	-45.13	43.85	74.00	30.15	Horizontal
3	9848.0000	47.89	38.05	-40.95	44.99	74.00	29.01	Horizontal



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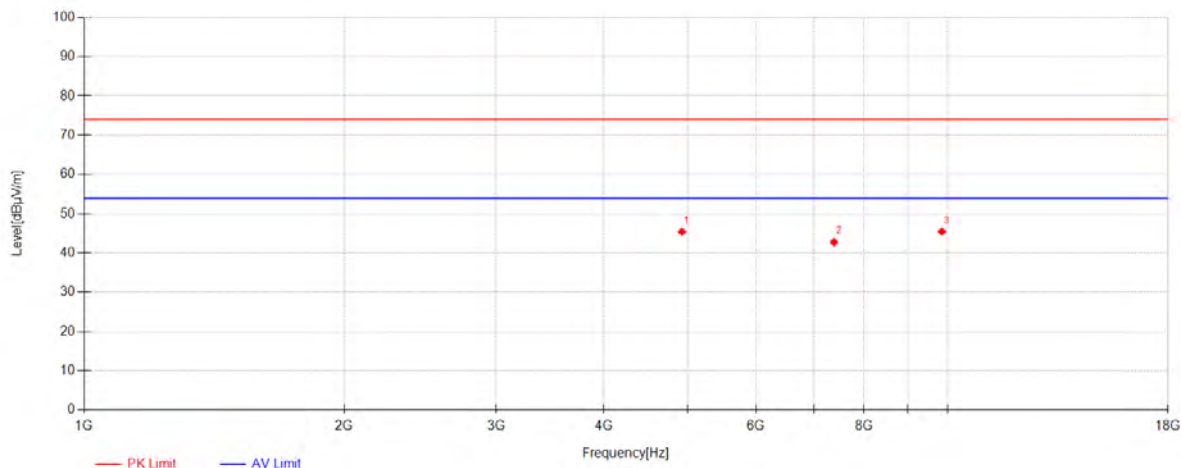
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Report No.: ZEWM2312001976RG04
Page: 85 of 135

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4923.75	61.23	31.22	-47.04	45.41	74.00	28.59	Vertical
2	7386.0000	51.62	36.26	-45.13	42.75	74.00	31.25	Vertical
3	9848.0000	48.36	38.05	-40.95	45.46	74.00	28.54	Vertical



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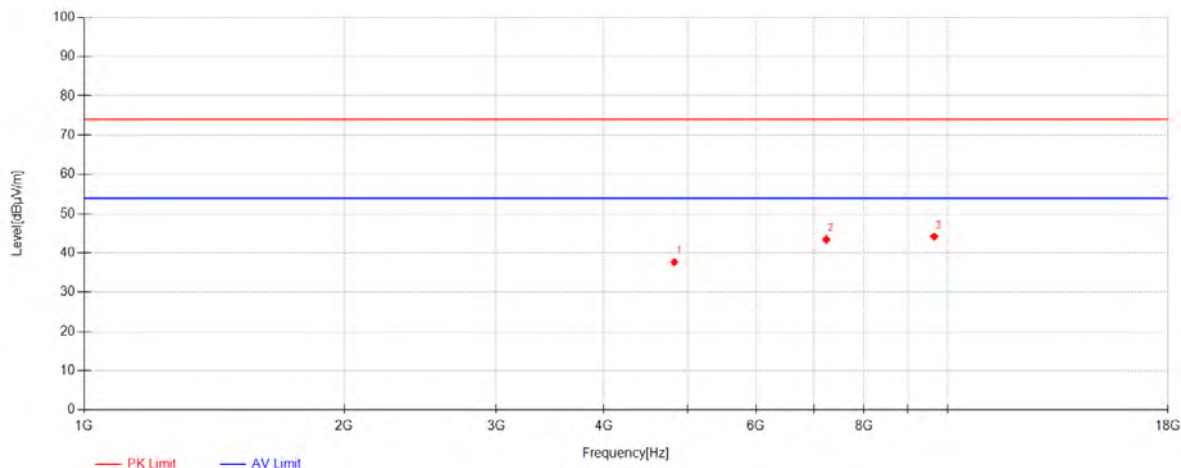
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Report No.: ZEWM2312001976RG04
Page: 86 of 135

802.11g_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.0000	53.79	30.98	-47.08	37.69	74.00	36.31	Horizontal
2	7236.0000	52.75	36.08	-45.41	43.42	74.00	30.58	Horizontal
3	9648.0000	48.40	37.59	-41.80	44.19	74.00	29.81	Horizontal



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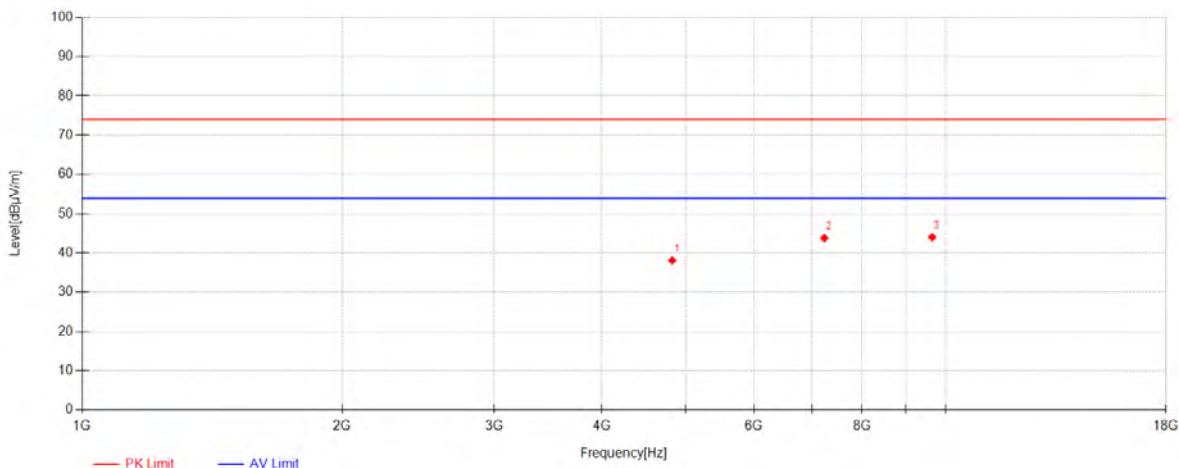
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZEWM2312001976RG04
Page: 87 of 135

802.11g_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.0000	54.20	30.98	-47.08	38.10	74.00	35.90	Vertical
2	7236.0000	53.13	36.08	-45.41	43.80	74.00	30.20	Vertical
3	9648.0000	48.24	37.59	-41.80	44.03	74.00	29.97	Vertical



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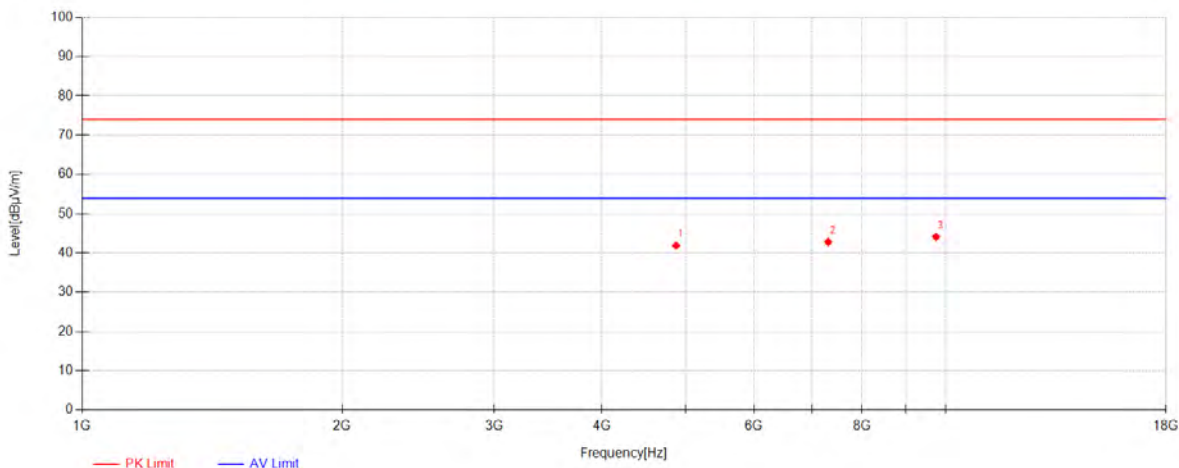
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: ZEWM2312001976RG04
Page: 88 of 135

802.11g_Channel 06



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.0000	57.82	31.10	-47.02	41.90	74.00	32.10	Horizontal
2	7311.0000	52.09	36.17	-45.45	42.81	74.00	31.19	Horizontal
3	9748.0000	47.70	37.82	-41.41	44.11	74.00	29.89	Horizontal



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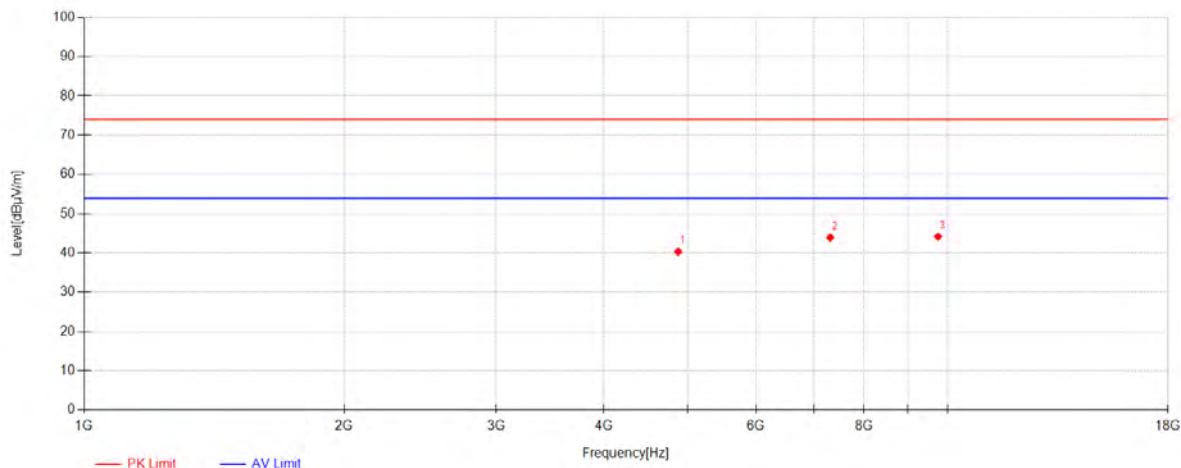
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Report No.: ZEWM2312001976RG04
Page: 89 of 135

802.11g_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.0000	56.25	31.10	-47.02	40.33	74.00	33.67	Vertical
2	7311.0000	53.20	36.17	-45.45	43.92	74.00	30.08	Vertical
3	9748.0000	47.77	37.82	-41.41	44.18	74.00	29.82	Vertical



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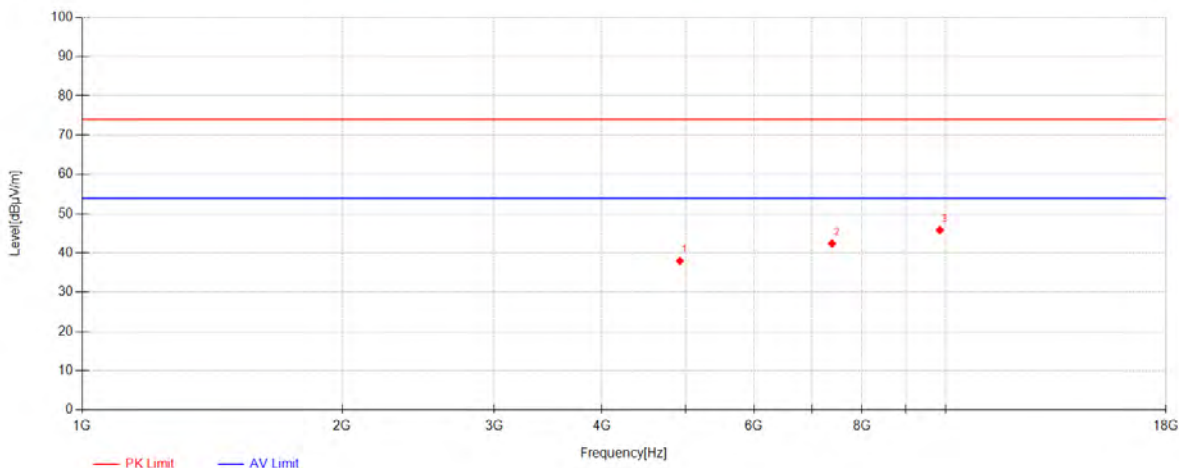
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Report No.: ZEWM2312001976RG04
Page: 90 of 135

802.11g_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.0000	53.78	31.22	-47.04	37.96	74.00	36.04	Horizontal
2	7386.0000	51.29	36.26	-45.13	42.42	74.00	31.58	Horizontal
3	9848.0000	48.75	38.05	-40.95	45.85	74.00	28.15	Horizontal



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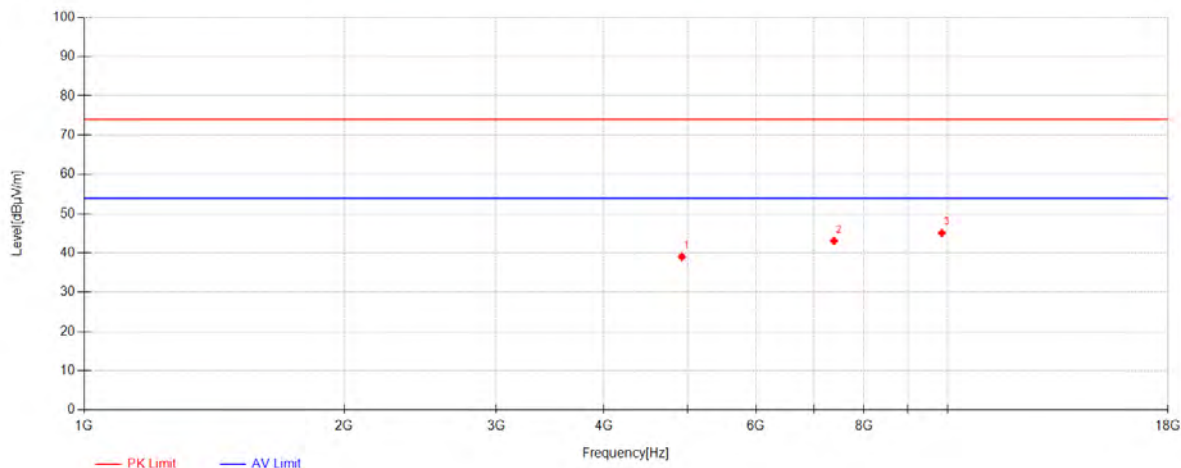
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Report No.: ZEWM2312001976RG04
Page: 91 of 135

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.0000	54.89	31.22	-47.04	39.07	74.00	34.93	Vertical
2	7386.0000	51.97	36.26	-45.13	43.10	74.00	30.90	Vertical
3	9848.0000	47.99	38.05	-40.95	45.09	74.00	28.91	Vertical



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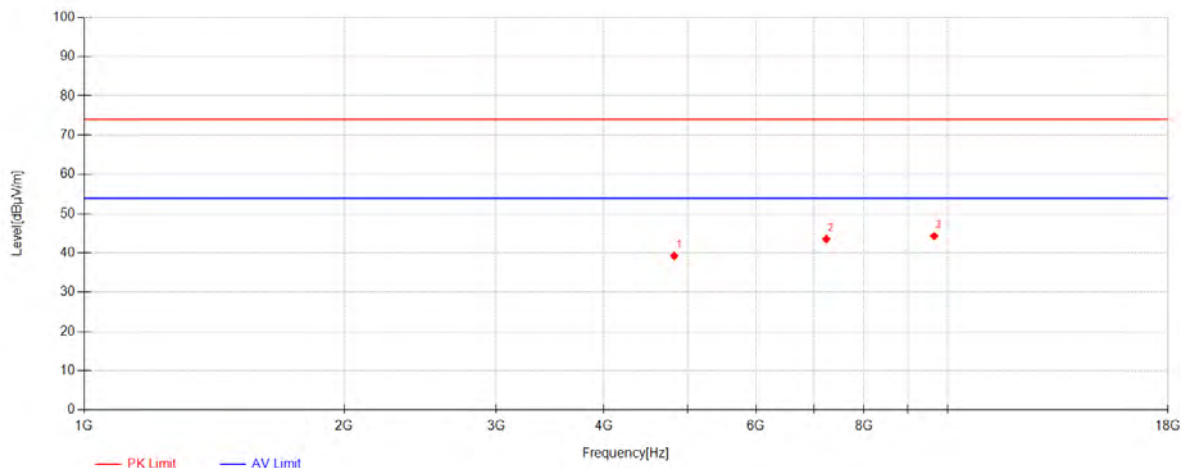
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Report No.: ZEWM2312001976RG04
Page: 92 of 135

802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.0000	55.36	30.98	-47.08	39.26	74.00	34.74	Horizontal
2	7236.0000	52.86	36.08	-45.41	43.53	74.00	30.47	Horizontal
3	9648.0000	48.52	37.59	-41.80	44.31	74.00	29.69	Horizontal



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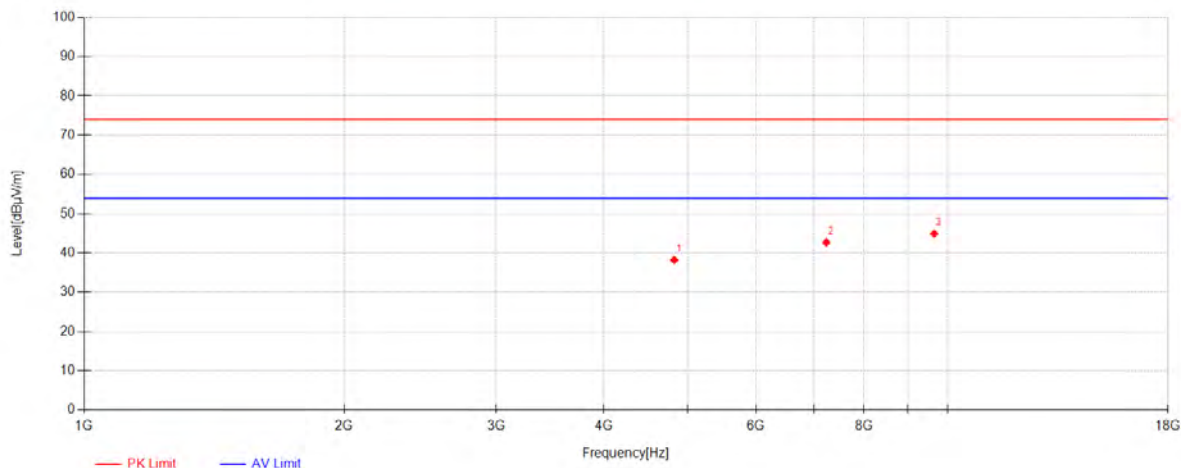
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Report No.: ZEWM2312001976RG04
Page: 93 of 135

802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824.0000	54.31	30.98	-47.08	38.21	74.00	35.79	Vertical
2	7236.0000	52.04	36.08	-45.41	42.71	74.00	31.29	Vertical
3	9648.0000	49.11	37.59	-41.80	44.90	74.00	29.10	Vertical



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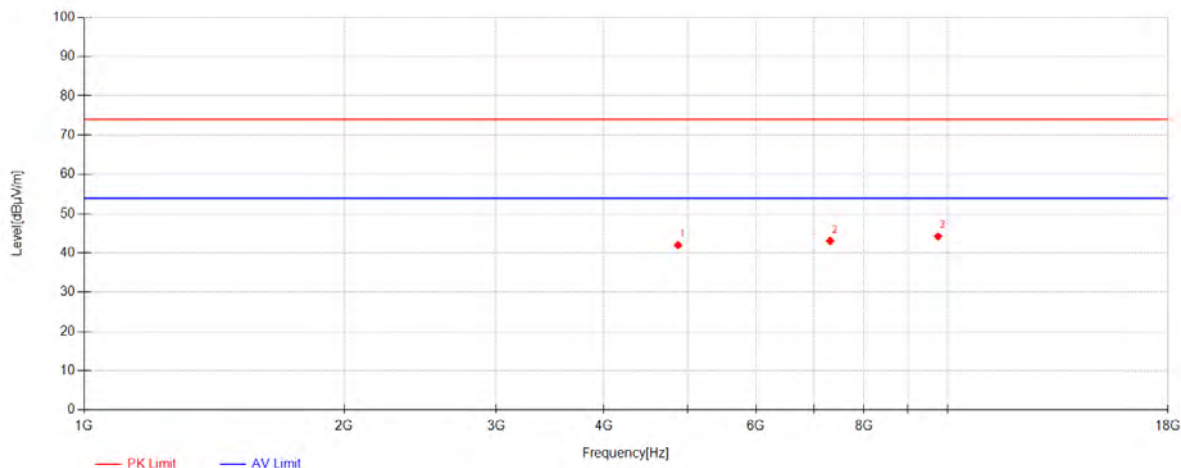
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Report No.: ZEWM2312001976RG04
Page: 94 of 135

802.11n20_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.0000	57.93	31.10	-47.02	42.01	74.00	31.99	Horizontal
2	7311.0000	52.37	36.17	-45.45	43.09	74.00	30.91	Horizontal
3	9748.0000	47.82	37.82	-41.41	44.23	74.00	29.77	Horizontal



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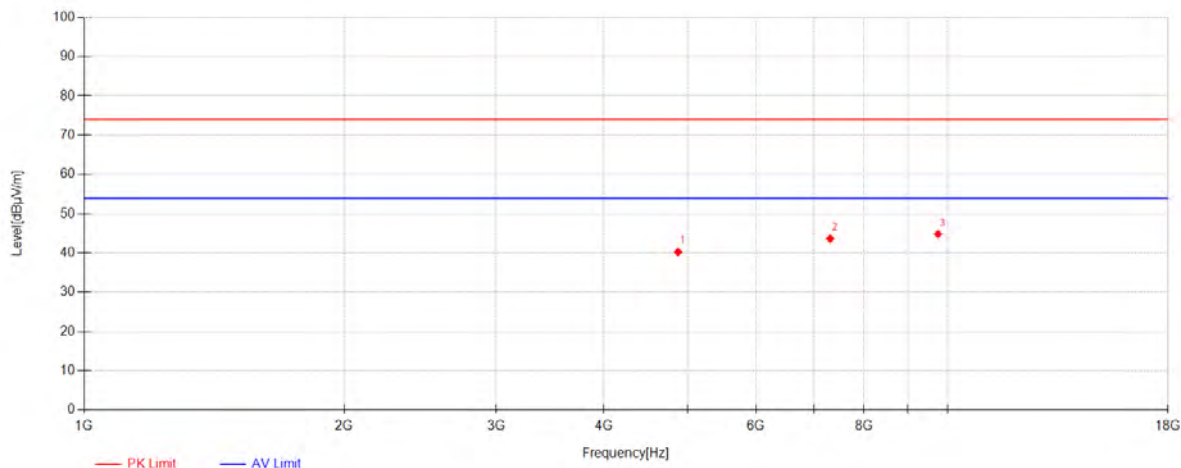
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Report No.: ZEWM2312001976RG04
Page: 95 of 135

802.11n20_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.0000	56.16	31.10	-47.02	40.24	74.00	33.76	Vertical
2	7311.0000	52.91	36.17	-45.45	43.63	74.00	30.37	Vertical
3	9748.0000	48.41	37.82	-41.41	44.82	74.00	29.18	Vertical



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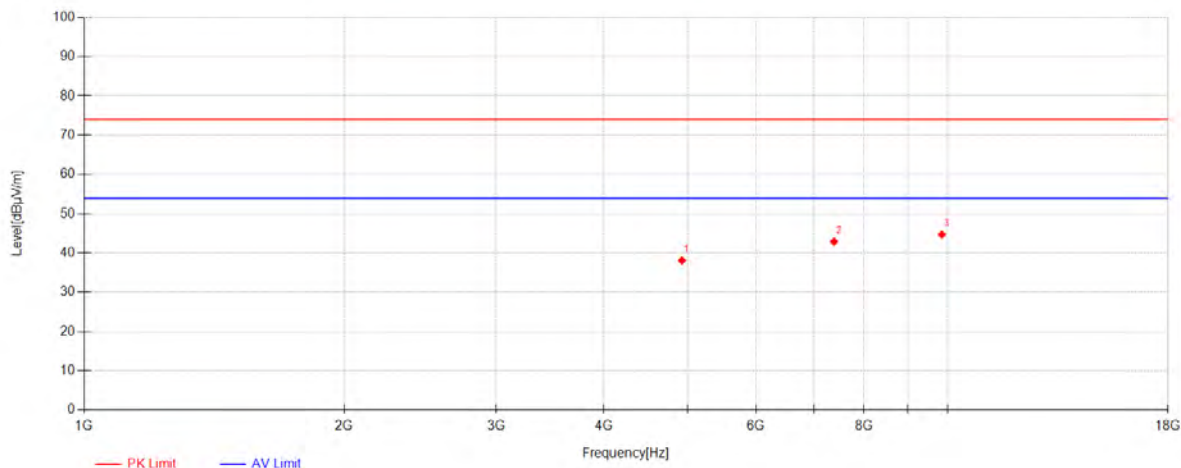
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Report No.: ZEWM2312001976RG04
Page: 96 of 135

802.11n20_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.0000	53.89	31.22	-47.04	38.07	74.00	35.93	Horizontal
2	7386.0000	51.77	36.26	-45.13	42.90	74.00	31.10	Horizontal
3	9848.0000	47.62	38.05	-40.95	44.72	74.00	29.28	Horizontal



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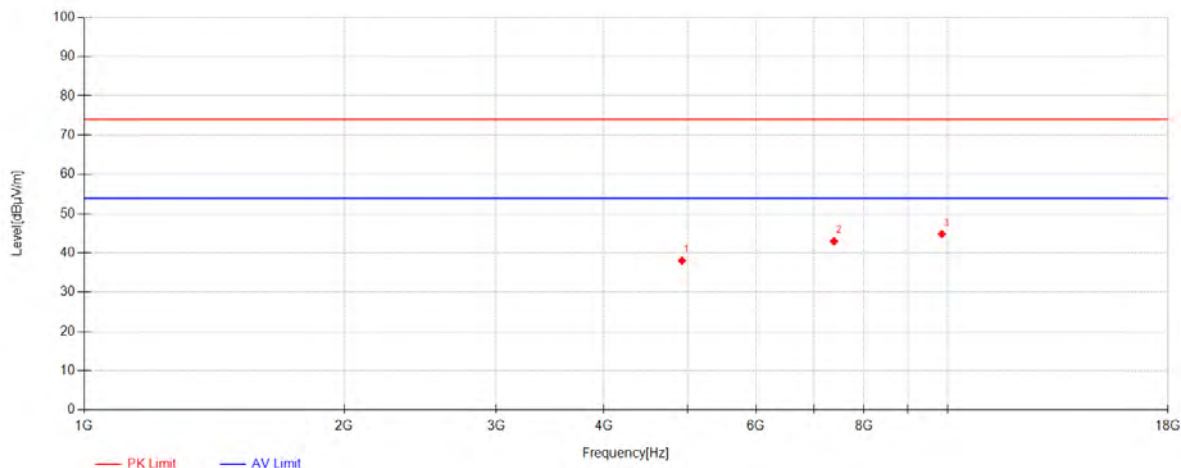
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Report No.: ZEWM2312001976RG04
Page: 97 of 135

802.11n20_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.0000	53.84	31.22	-47.04	38.02	74.00	35.98	Vertical
2	7386.0000	51.84	36.26	-45.13	42.97	74.00	31.03	Vertical
3	9848.0000	47.72	38.05	-40.95	44.82	74.00	29.18	Vertical



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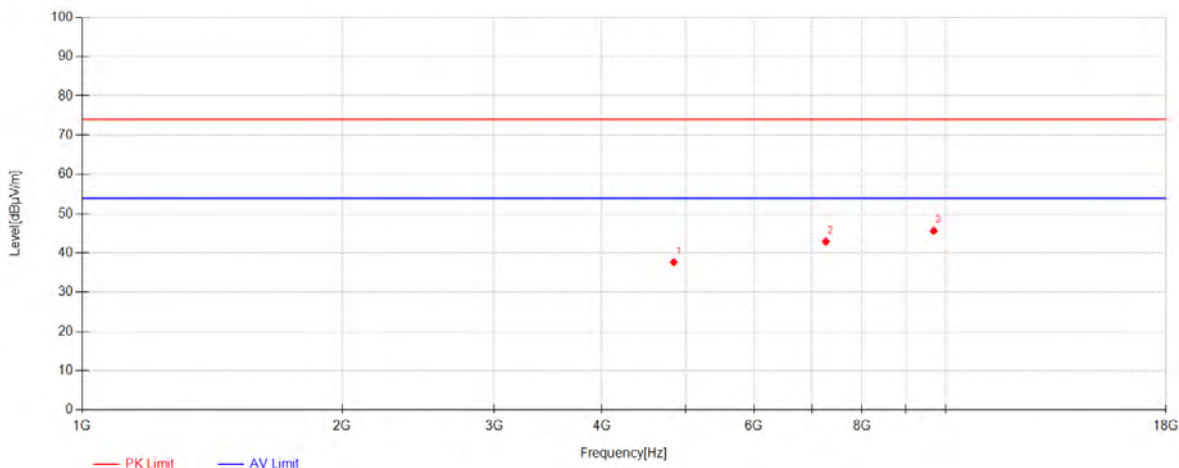
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Report No.: ZEWM2312001976RG04
Page: 98 of 135

802.11n40_Channel 03



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4844.0000	53.68	31.03	-47.06	37.65	74.00	36.35	Horizontal
2	7266.0000	52.24	36.12	-45.45	42.91	74.00	31.09	Horizontal
3	9688.0000	49.60	37.68	-41.62	45.66	74.00	28.34	Horizontal



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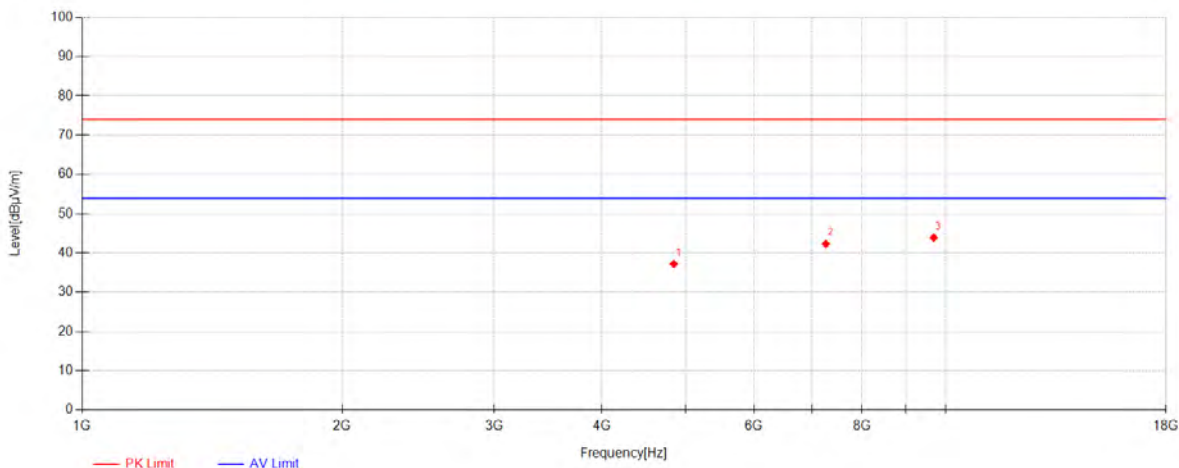
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Report No.: ZEWM2312001976RG04
Page: 99 of 135

802.11n40_Channel 03



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4844.0000	53.25	31.03	-47.06	37.22	74.00	36.78	Vertical
2	7266.0000	51.65	36.12	-45.45	42.32	74.00	31.68	Vertical
3	9688.0000	47.83	37.68	-41.62	43.89	74.00	30.11	Vertical



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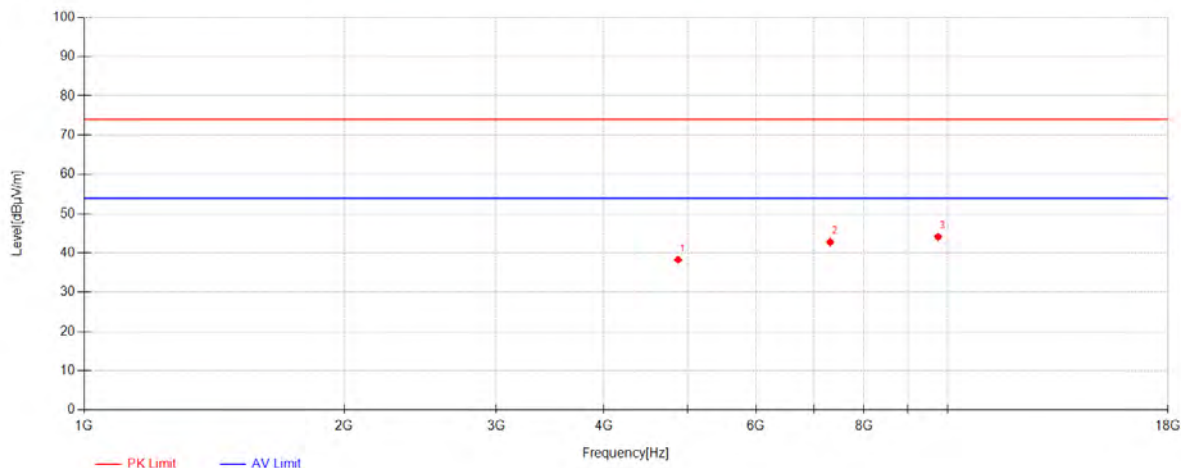
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Report No.: ZEWM2312001976RG04
Page: 100 of 135

802.11n40_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.0000	54.21	31.10	-47.02	38.29	74.00	35.71	Horizontal
2	7311.0000	52.06	36.17	-45.45	42.78	74.00	31.22	Horizontal
3	9748.0000	47.71	37.82	-41.41	44.12	74.00	29.88	Horizontal



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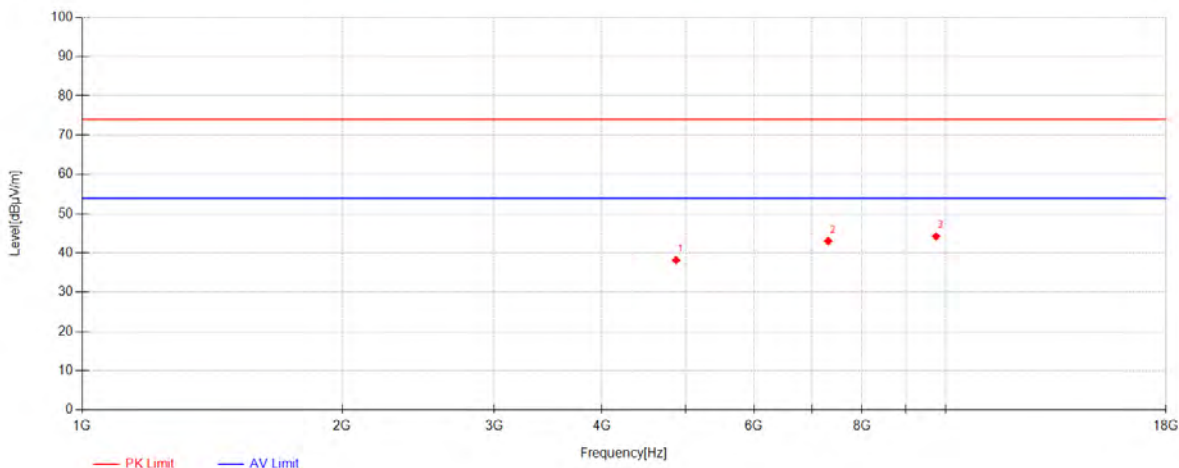
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Report No.: ZEWM2312001976RG04
Page: 101 of 135

802.11n40_Channel 06



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874.0000	54.09	31.10	-47.02	38.17	74.00	35.83	Vertical
2	7311.0000	52.32	36.17	-45.45	43.04	74.00	30.96	Vertical
3	9748.0000	47.81	37.82	-41.41	44.22	74.00	29.78	Vertical



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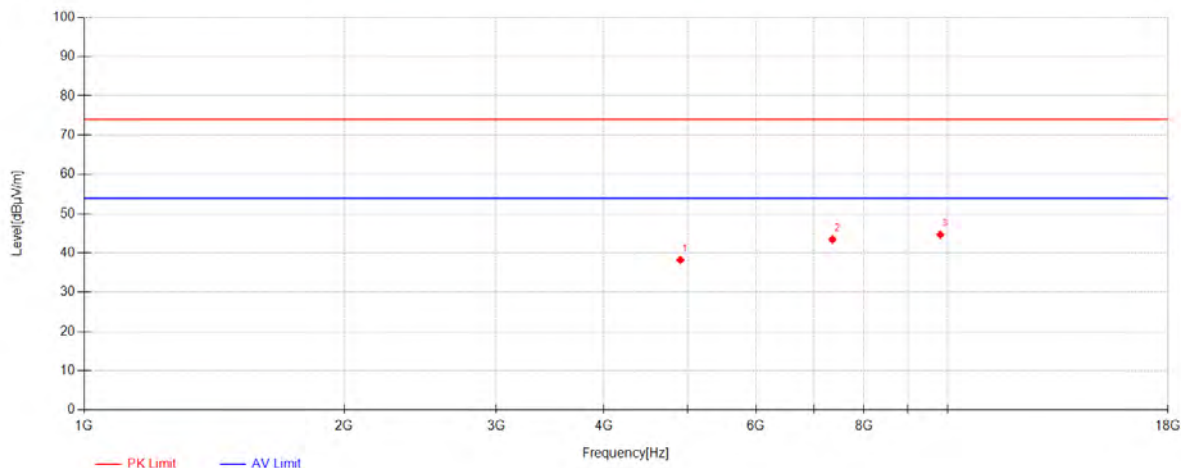
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Report No.: ZEWM2312001976RG04
Page: 102 of 135

802.11n40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4904.0000	54.05	31.17	-47.00	38.22	74.00	35.78	Horizontal
2	7356.0000	52.46	36.23	-45.26	43.43	74.00	30.57	Horizontal
3	9808.0000	47.90	37.96	-41.18	44.68	74.00	29.32	Horizontal



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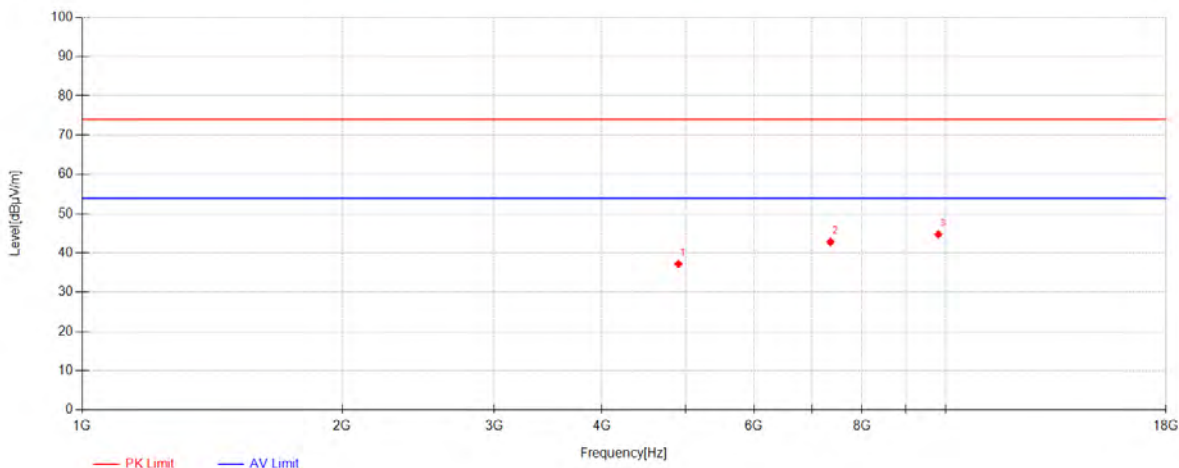
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Report No.: ZEWM2312001976RG04
Page: 103 of 135

802.11n40_Channel 09



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4904.0000	53.04	31.17	-47.00	37.21	74.00	36.79	Vertical
2	7356.0000	51.84	36.23	-45.26	42.81	74.00	31.19	Vertical
3	9808.0000	47.97	37.96	-41.18	44.75	74.00	29.25	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



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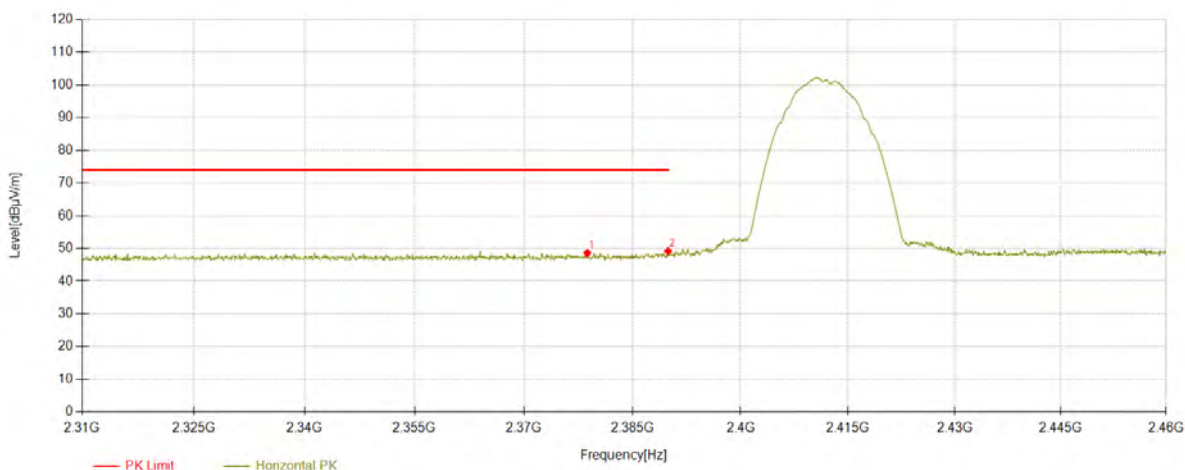


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Report No.: ZEWM2312001976RG04
Page: 104 of 135

Restricted bands around fundamental frequency

802.11b_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.7344	47.19	27.11	-25.72	48.58	74.00	25.42	Horizontal
2	2389.915	47.77	27.14	-25.70	49.21	74.00	24.79	Horizontal



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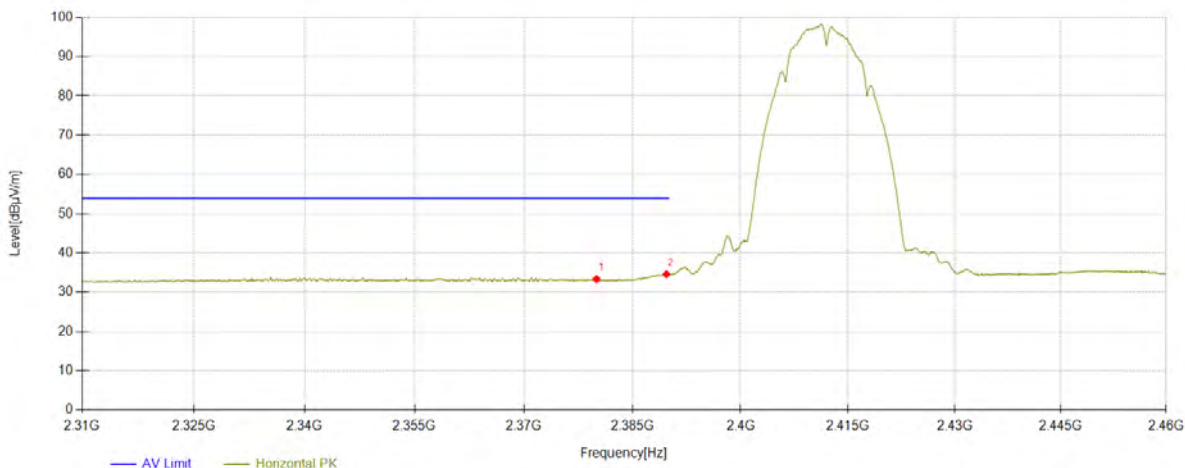
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Report No.: ZEWM2312001976RG04
Page: 105 of 135

802.11b_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2380.01	31.97	27.11	-25.72	33.36	54.00	20.64	Horizontal
2	2389.6898	33.15	27.14	-25.70	34.59	54.00	19.41	Horizontal



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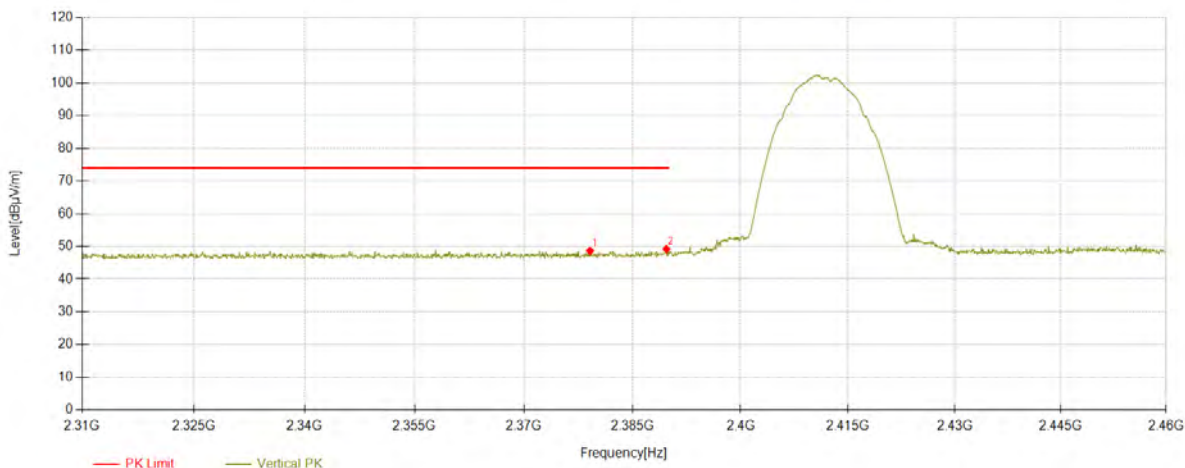
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Report No.: ZEWM2312001976RG04
Page: 106 of 135

802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2379.1096	47.26	27.11	-25.72	48.65	74.00	25.35	Vertical
2	2389.6898	47.78	27.14	-25.70	49.22	74.00	24.78	Vertical



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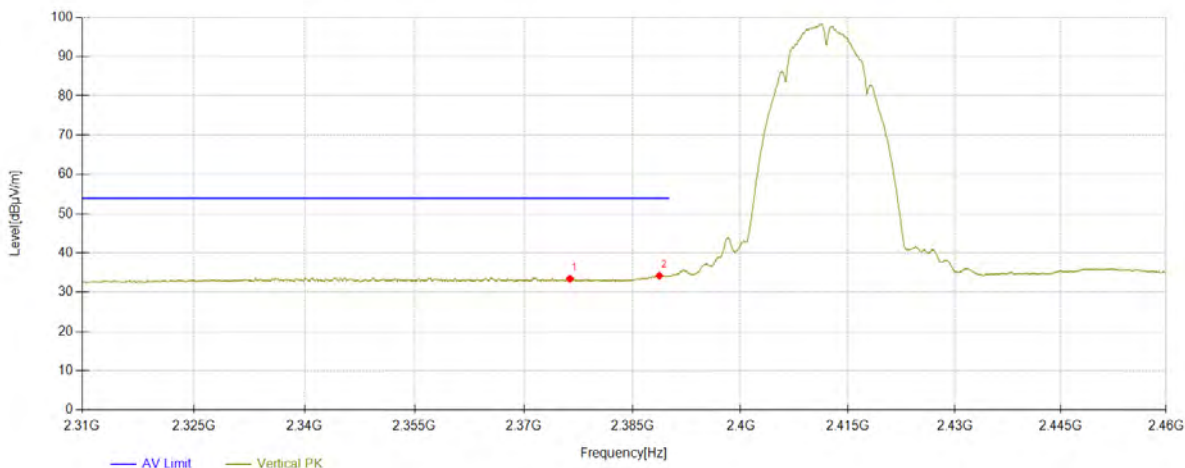
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Report No.: ZEWM2312001976RG04
Page: 107 of 135

802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2376.3332	32.06	27.10	-25.73	33.43	54.00	20.57	Vertical
2	2388.7144	32.79	27.13	-25.70	34.22	54.00	19.78	Vertical



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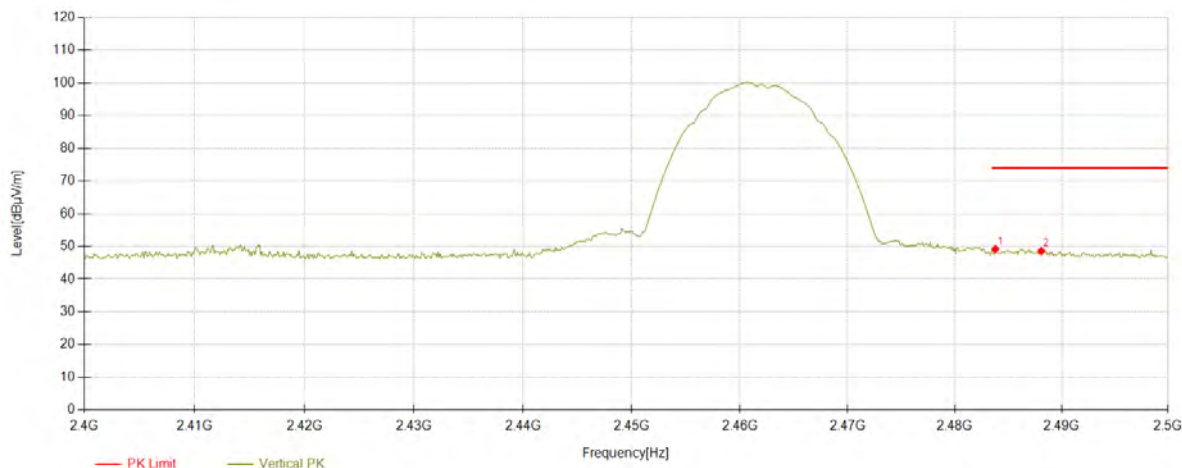
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Report No.: ZEWM2312001976RG04
Page: 108 of 135

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	47.00	27.36	-25.14	49.22	74.00	24.78	Vertical
2	2488.1	46.32	27.37	-25.12	48.57	74.00	25.43	Vertical



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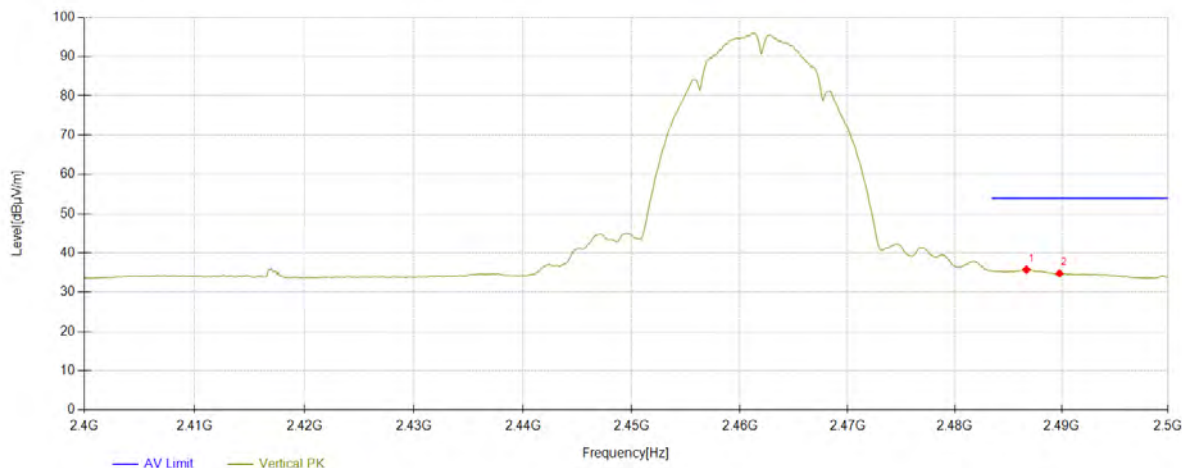
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Report No.: ZEWM2312001976RG04
Page: 109 of 135

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.7	33.50	27.37	-25.13	35.74	54.00	18.26	Vertical
2	2489.8	32.51	27.38	-25.11	34.78	54.00	19.22	Vertical



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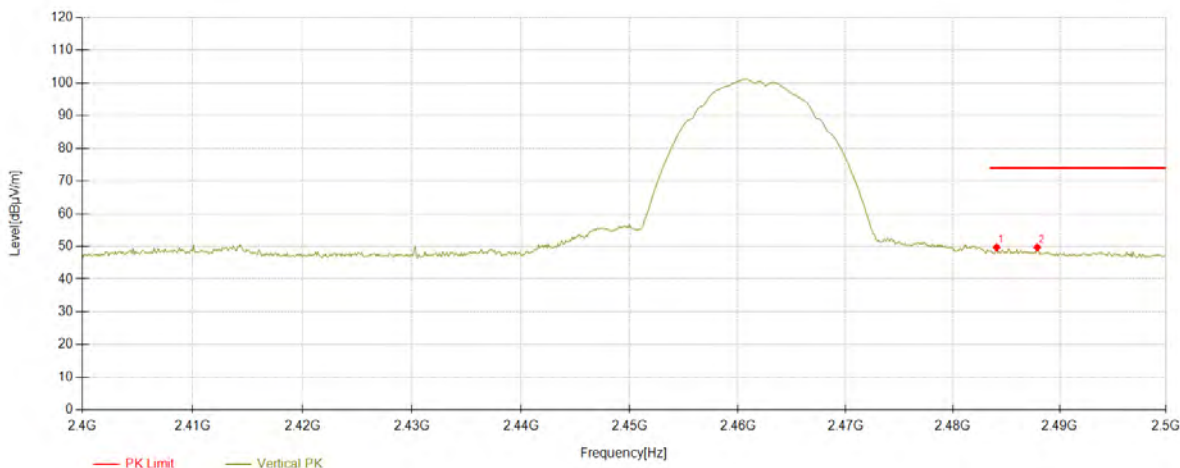
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Report No.: ZEWM2312001976RG04
Page: 110 of 135

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1	47.50	27.36	-25.14	49.72	74.00	24.28	Vertical
2	2487.9	47.47	27.37	-25.12	49.72	74.00	24.28	Vertical



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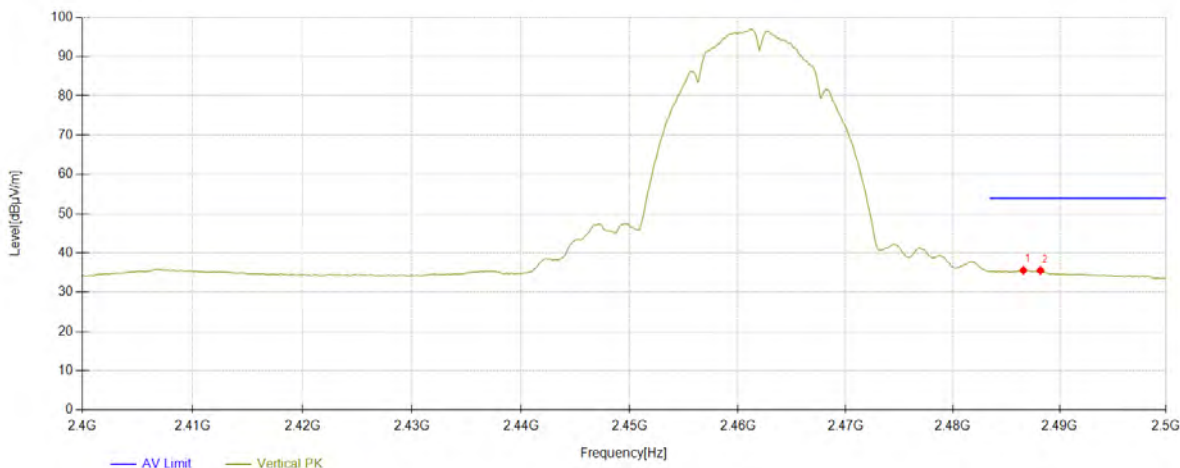
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Report No.: ZEWM2312001976RG04
Page: 111 of 135

802.11b_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.6	33.35	27.37	-25.13	35.59	54.00	18.41	Vertical
2	2488.2	33.31	27.37	-25.12	35.56	54.00	18.44	Vertical



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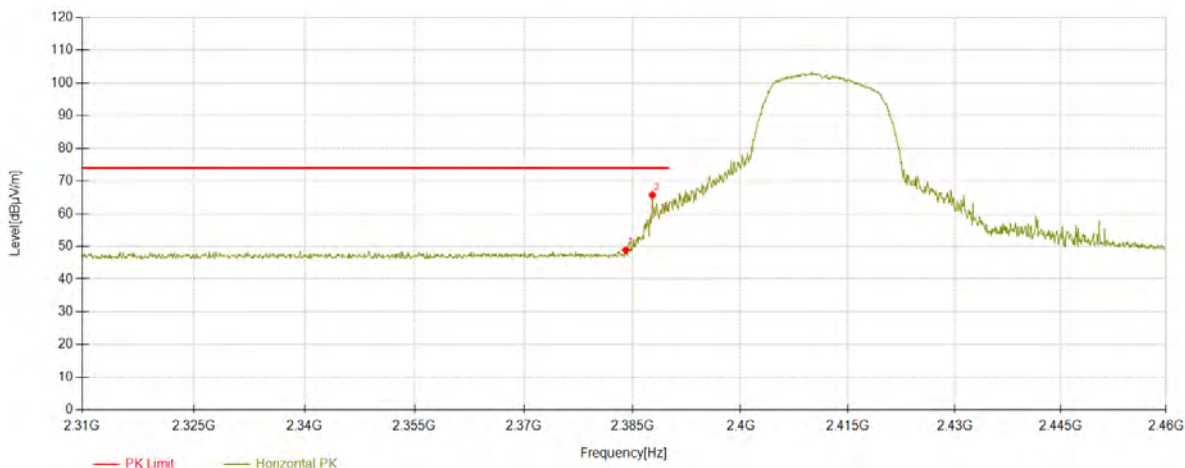
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Report No.: ZEWM2312001976RG04
Page: 112 of 135

802.11g_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.062	47.44	27.12	-25.71	48.85	74.00	25.15	Horizontal
2	2387.7389	64.28	27.13	-25.71	65.70	74.00	8.30	Horizontal



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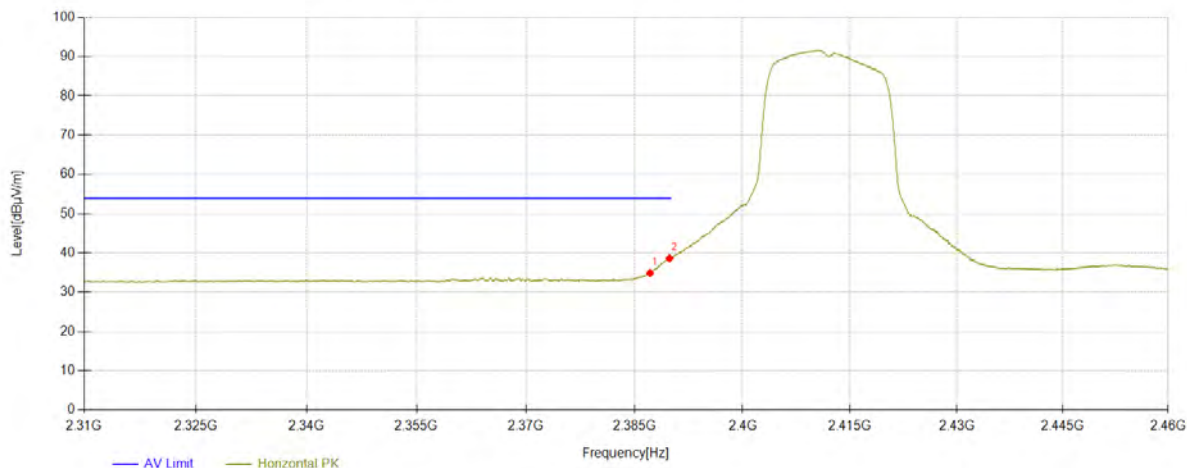
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Report No.: ZEWM2312001976RG04
Page: 113 of 135

802.11g_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.1386	33.48	27.13	-25.71	34.90	54.00	19.10	Horizontal
2	2389.8399	37.21	27.14	-25.70	38.65	54.00	15.35	Horizontal



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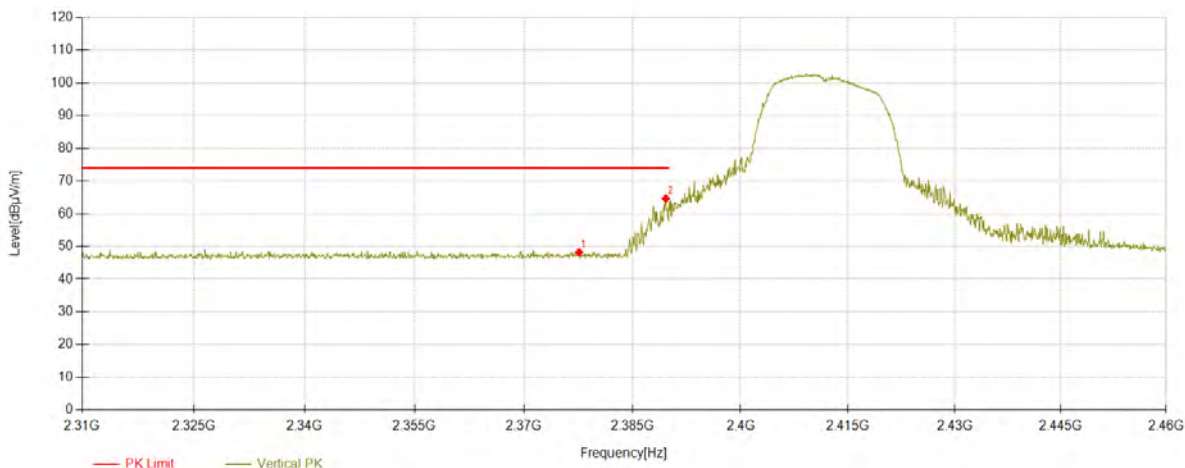
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Report No.: ZEWM2312001976RG04
Page: 114 of 135

802.11g_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2377.6088	46.83	27.11	-25.73	48.21	74.00	25.79	Vertical
2	2389.6148	63.19	27.14	-25.70	64.63	74.00	9.37	Vertical



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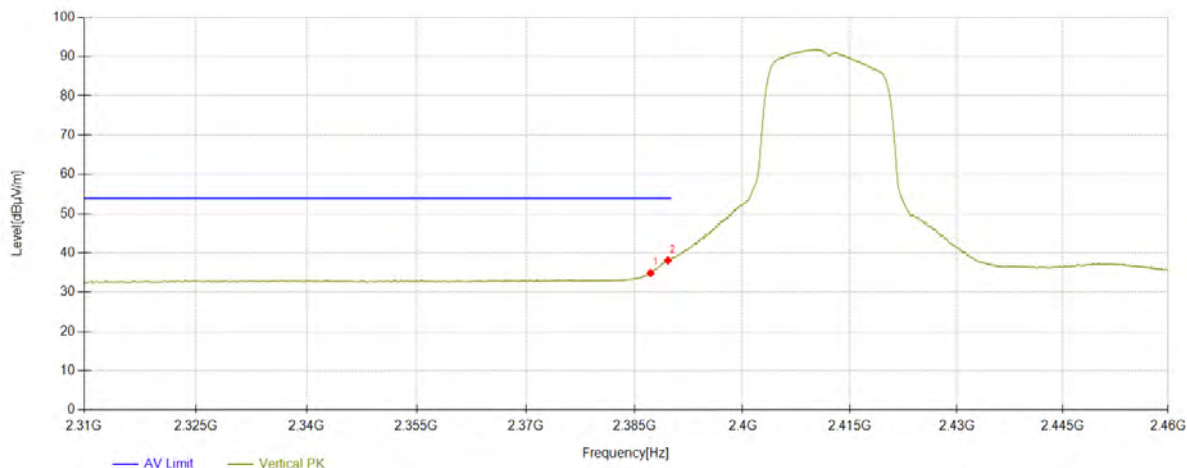
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Report No.: ZEWM2312001976RG04
Page: 115 of 135

802.11g_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.2136	33.46	27.13	-25.71	34.88	54.00	19.12	Vertical
2	2389.6148	36.65	27.14	-25.70	38.09	54.00	15.91	Vertical



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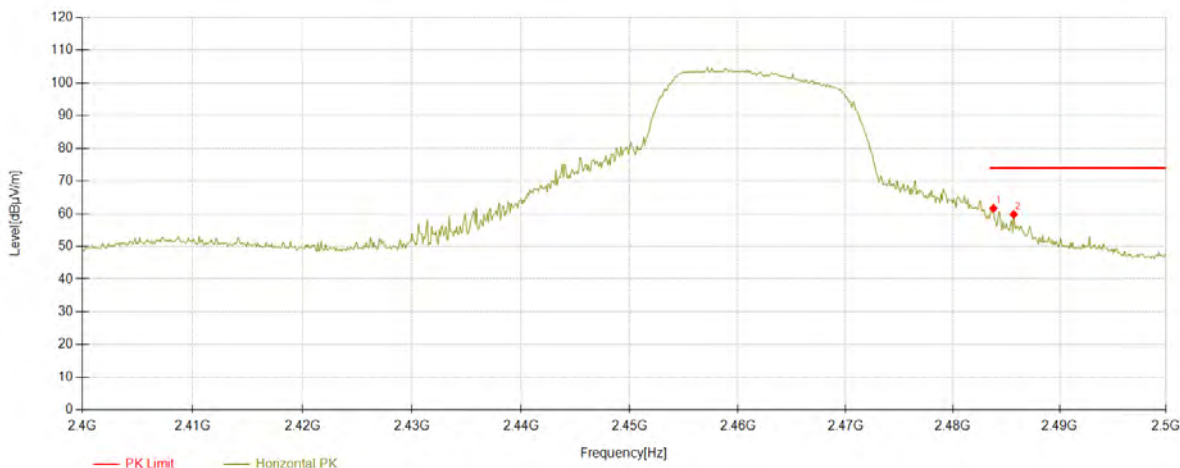
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Report No.: ZEWM2312001976RG04
Page: 116 of 135

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	59.38	27.36	-25.14	61.60	74.00	12.40	Horizontal
2	2485.7	57.58	27.37	-25.13	59.82	74.00	14.18	Horizontal



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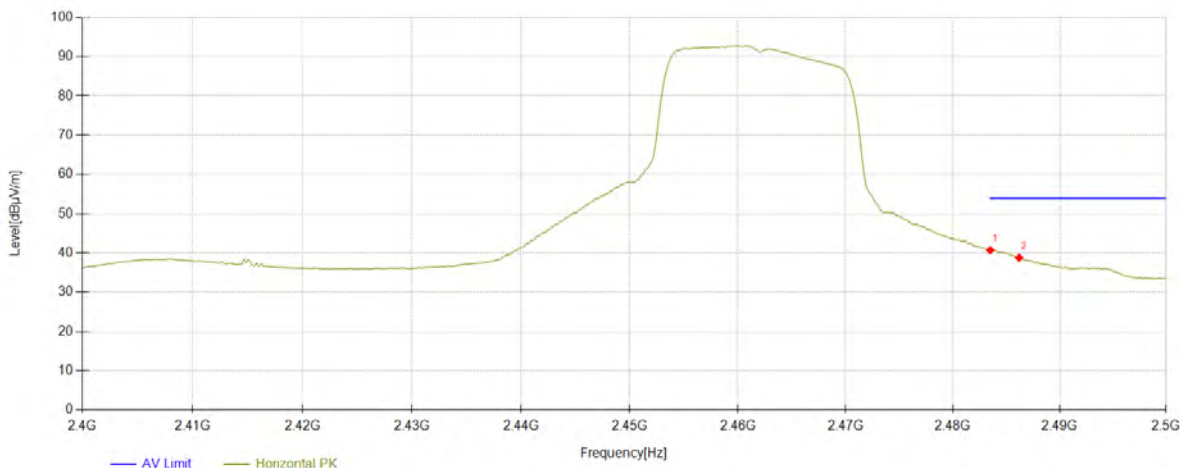
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Report No.: ZEWM2312001976RG04
Page: 117 of 135

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5	38.50	27.36	-25.15	40.71	54.00	13.29	Horizontal
2	2486.2	36.59	27.37	-25.13	38.83	54.00	15.17	Horizontal



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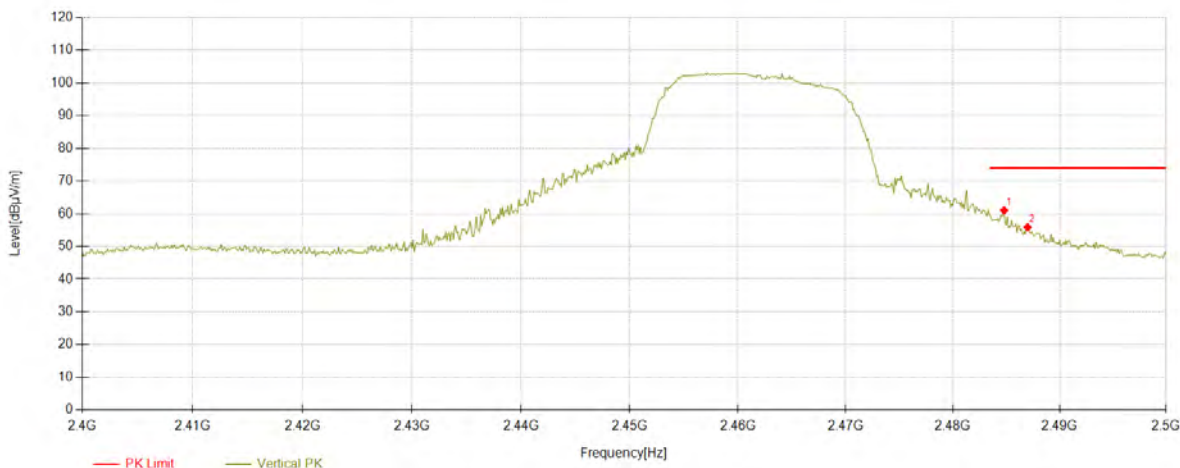
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Report No.: ZEWM2312001976RG04
Page: 118 of 135

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.8	58.79	27.36	-25.14	61.01	74.00	12.99	Vertical
2	2487	53.63	27.37	-25.12	55.88	74.00	18.12	Vertical



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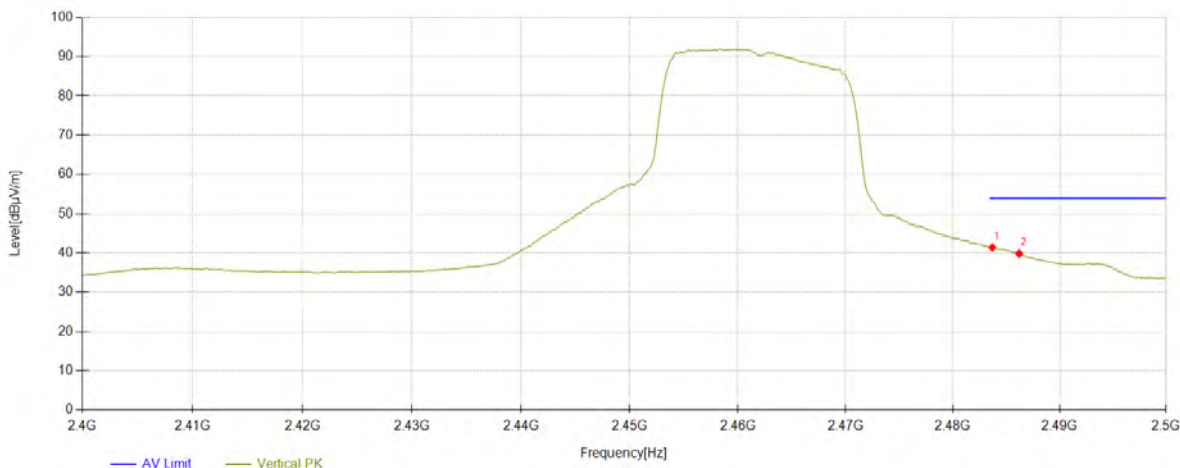
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Report No.: ZEWM2312001976RG04
Page: 119 of 135

802.11g_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.7	39.17	27.36	-25.14	41.39	54.00	12.61	Vertical
2	2486.2	37.59	27.37	-25.13	39.83	54.00	14.17	Vertical



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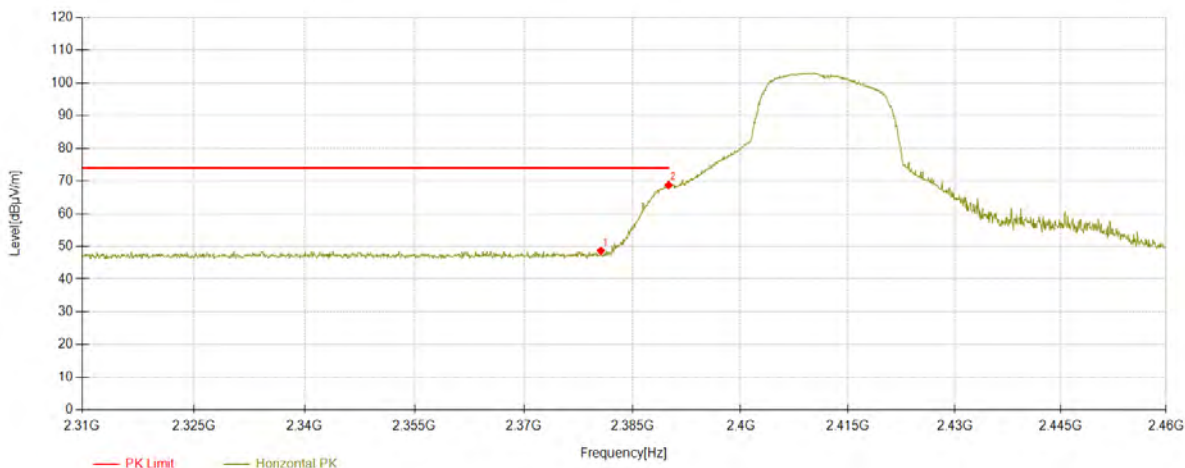
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Report No.: ZEWM2312001976RG04
Page: 120 of 135

802.11n20_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2380.6103	47.28	27.11	-25.72	48.67	74.00	25.33	Horizontal
2	2389.99	67.32	27.14	-25.70	68.76	74.00	5.24	Horizontal



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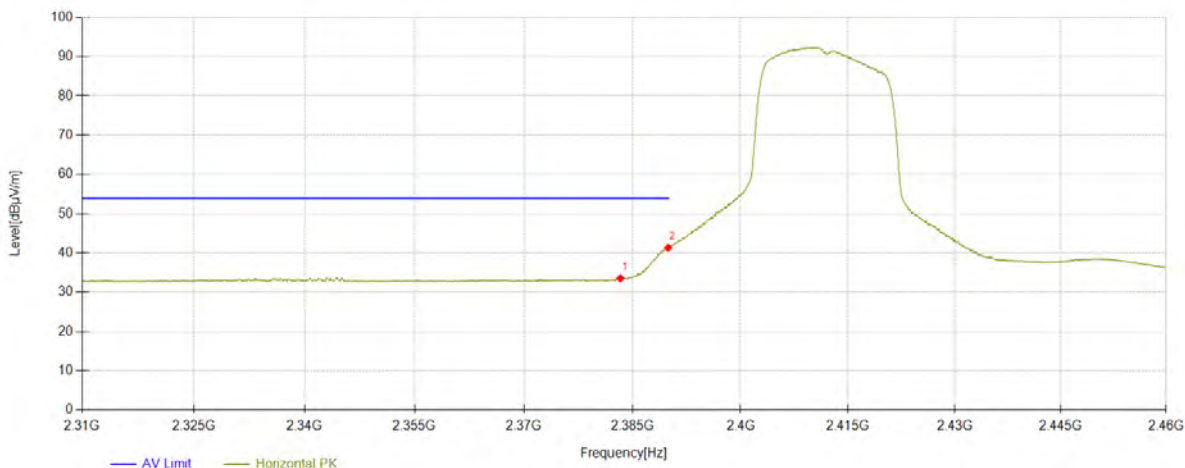
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Report No.: ZEWM2312001976RG04
Page: 121 of 135

802.11n20_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2383.3117	32.14	27.12	-25.72	33.54	54.00	20.46	Horizontal
2	2389.915	39.89	27.14	-25.70	41.33	54.00	12.67	Horizontal



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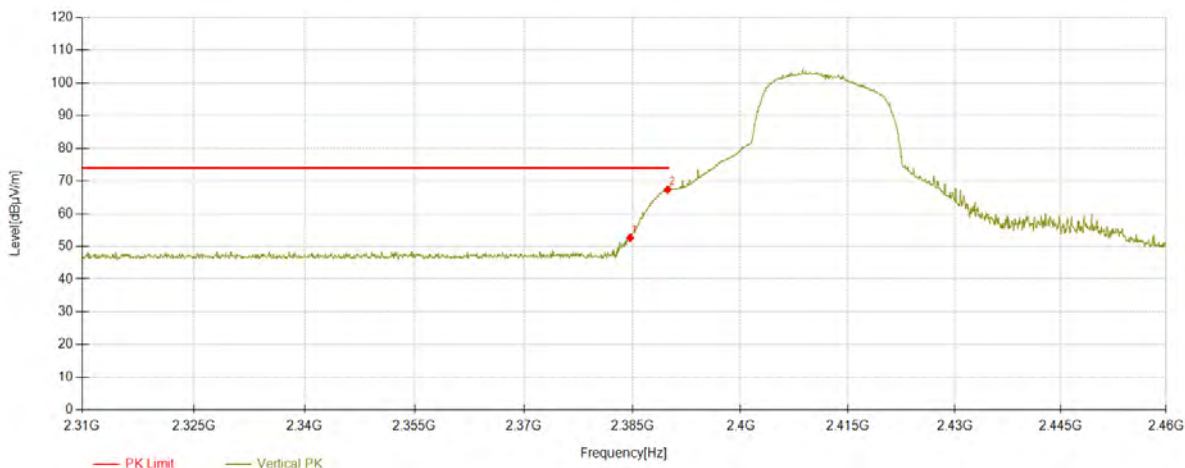
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Report No.: ZEWM2312001976RG04
Page: 122 of 135

802.11n20_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.6623	51.22	27.12	-25.71	52.63	74.00	21.37	Vertical
2	2389.8399	65.87	27.14	-25.70	67.31	74.00	6.69	Vertical



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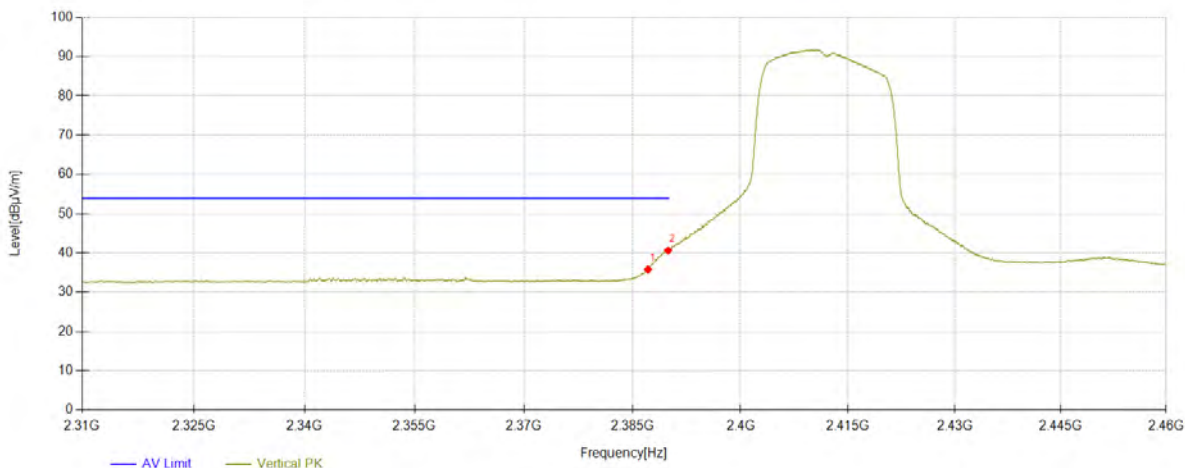
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Report No.: ZEWM2312001976RG04
Page: 123 of 135

802.11n20_Channel 01



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.1386	34.39	27.13	-25.71	35.81	54.00	18.19	Vertical
2	2389.915	39.19	27.14	-25.70	40.63	54.00	13.37	Vertical



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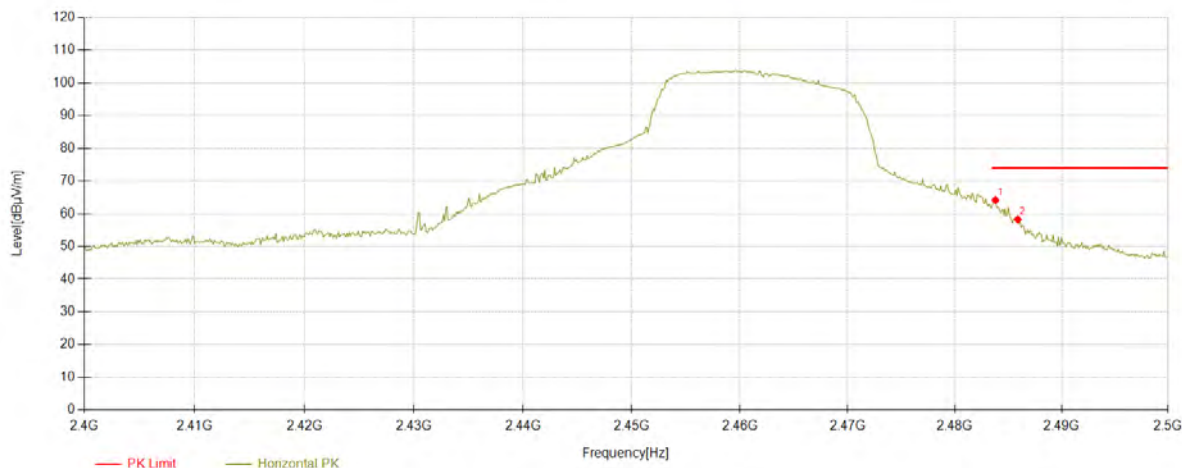
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Report No.: ZEWM2312001976RG04
Page: 124 of 135

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	61.96	27.36	-25.14	64.18	74.00	9.82	Horizontal
2	2485.9	56.01	27.37	-25.13	58.25	74.00	15.75	Horizontal



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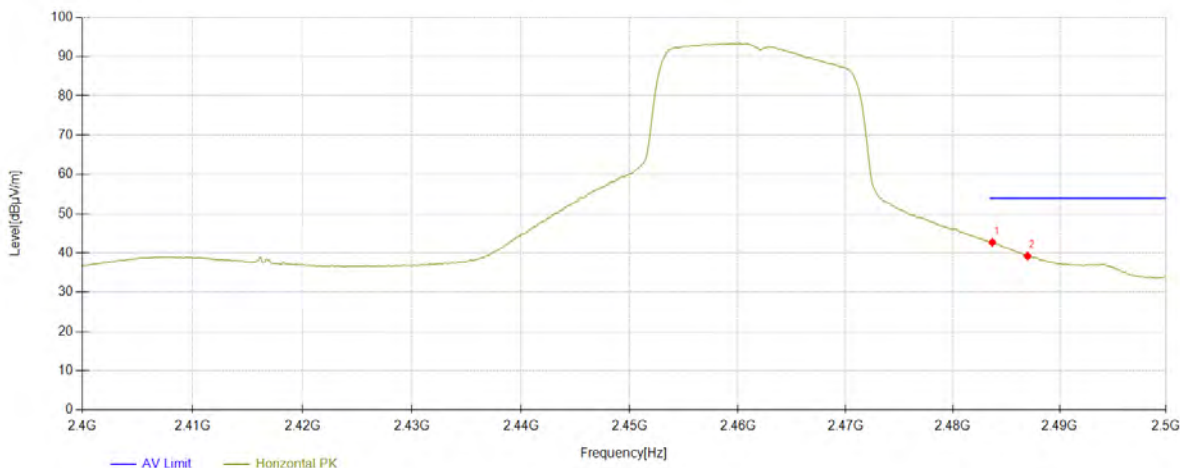
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Report No.: ZEWM2312001976RG04
Page: 125 of 135

802.11n20_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.7	40.50	27.36	-25.14	42.72	54.00	11.28	Horizontal
2	2487	36.96	27.37	-25.12	39.21	54.00	14.79	Horizontal



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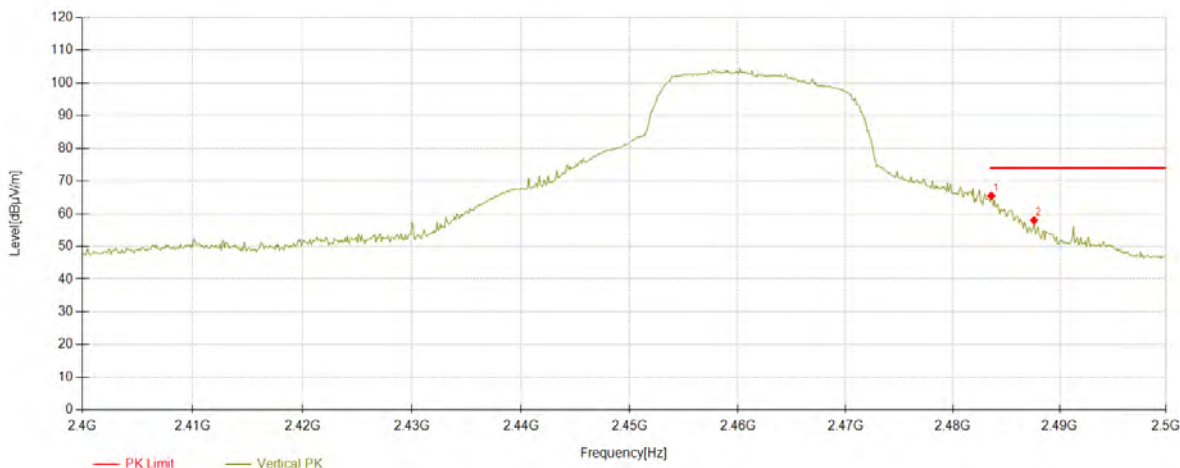
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Report No.: ZEWM2312001976RG04
Page: 126 of 135

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.6	63.23	27.36	-25.14	65.45	74.00	8.55	Vertical
2	2487.6	55.76	27.37	-25.12	58.01	74.00	15.99	Vertical



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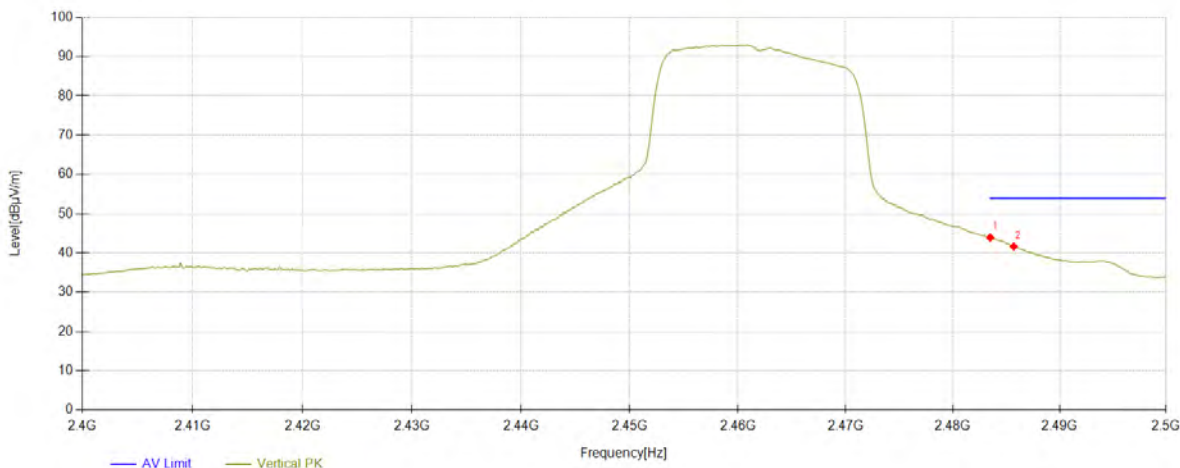
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Report No.: ZEWM2312001976RG04
Page: 127 of 135

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5	41.72	27.36	-25.15	43.93	54.00	10.07	Vertical
2	2485.7	39.42	27.37	-25.13	41.66	54.00	12.34	Vertical



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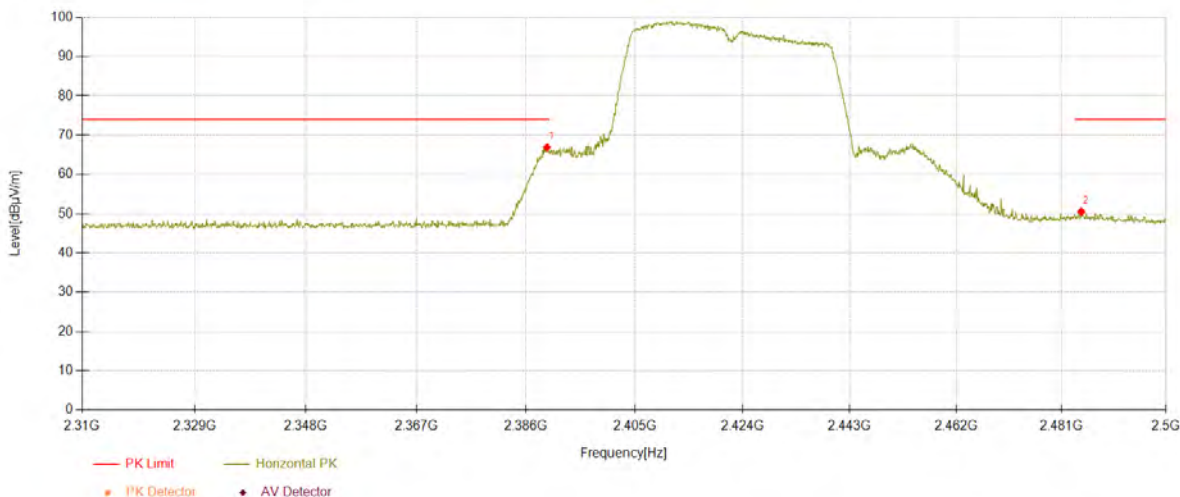
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Report No.: ZEWM2312001976RG04
Page: 128 of 135

802.11n40_Channel 03



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.6498	65.48	27.14	-25.70	66.92	74.00	7.08	Horizontal
2	2484.6023	48.31	27.36	-25.14	50.53	74.00	23.47	Horizontal



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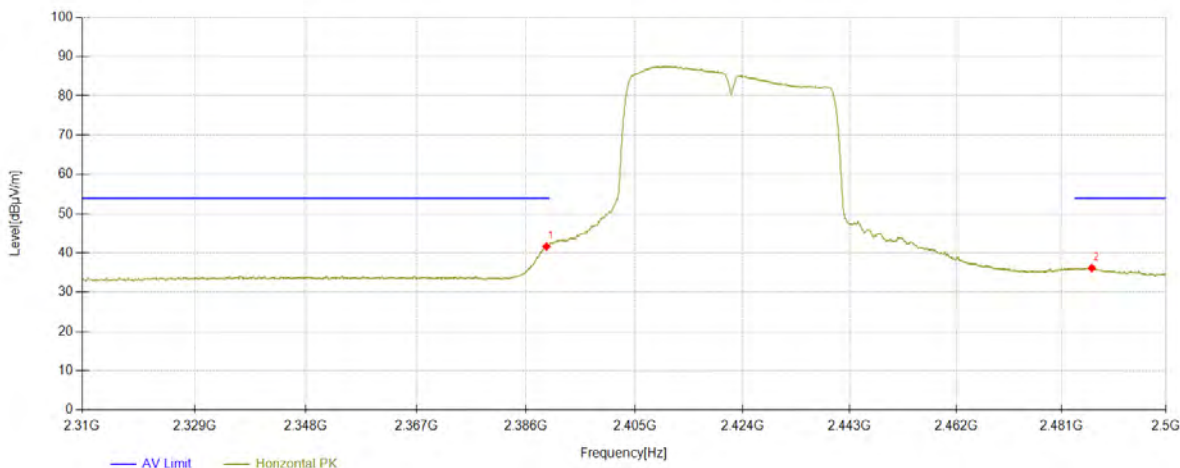
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Report No.: ZEWM2312001976RG04
Page: 129 of 135

802.11n40_Channel 03



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.5548	40.21	27.13	-25.70	41.64	54.00	12.36	Horizontal
2	2486.5033	33.92	27.37	-25.13	36.16	54.00	17.84	Horizontal



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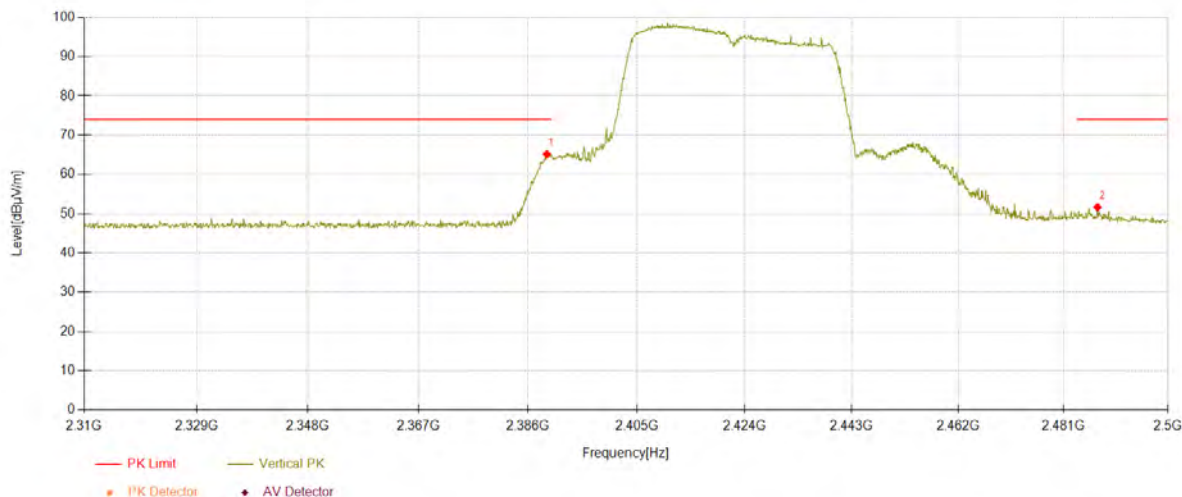
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Report No.: ZEWM2312001976RG04
Page: 130 of 135

802.11n40_Channel 03



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.2696	63.73	27.13	-25.70	65.16	74.00	8.84	Vertical
2	2487.1686	49.36	27.37	-25.12	51.61	74.00	22.39	Vertical



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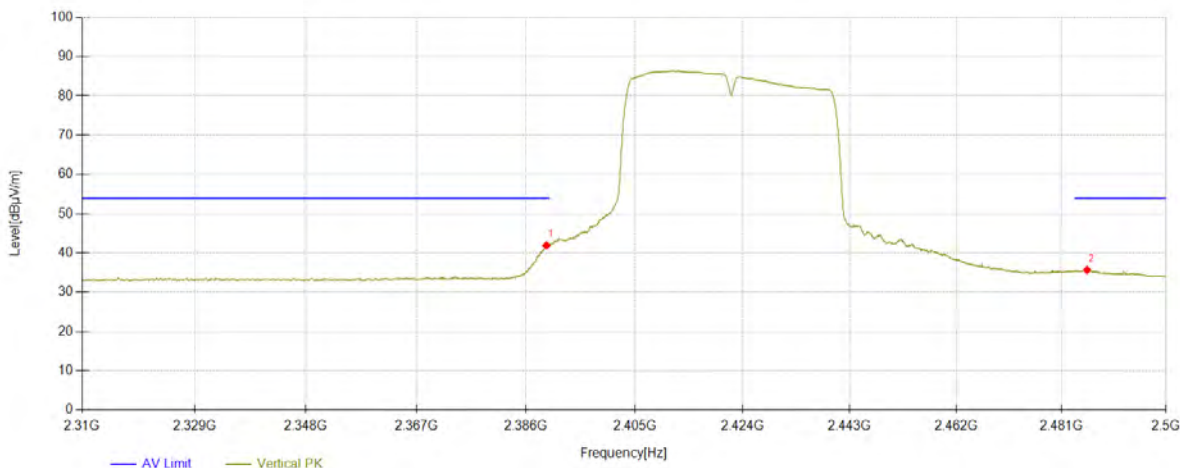
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Report No.: ZEWM2312001976RG04
Page: 131 of 135

802.11n40_Channel 03



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.5548	40.50	27.13	-25.70	41.93	54.00	12.07	Vertical
2	2485.6478	33.44	27.37	-25.13	35.68	54.00	18.32	Vertical



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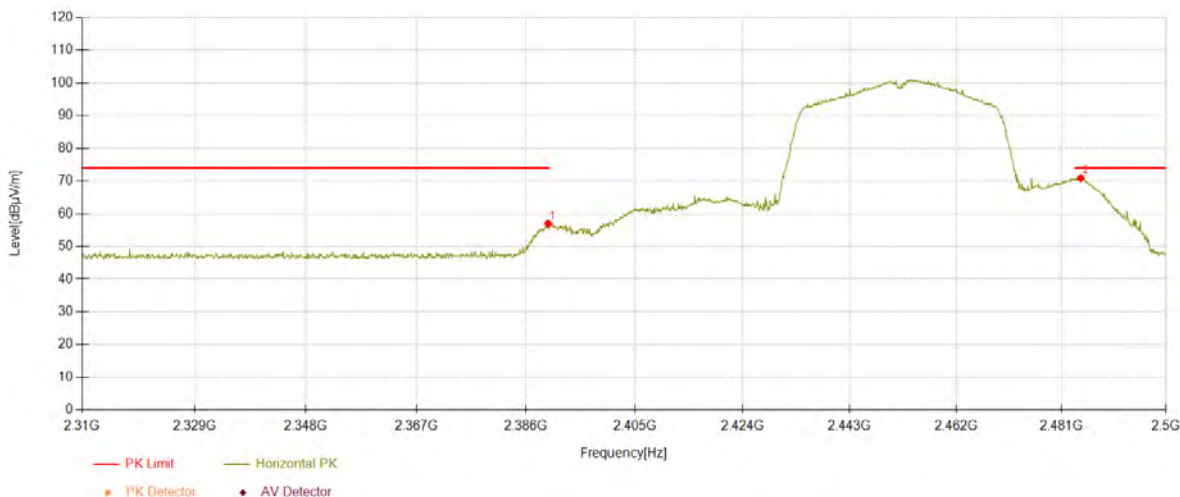
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Report No.: ZEWM2312001976RG04
Page: 132 of 135

802.11n40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.8399	55.57	27.14	-25.70	57.01	74.00	16.99	Horizontal
2	2484.5073	68.62	27.36	-25.14	70.84	74.00	3.16	Horizontal



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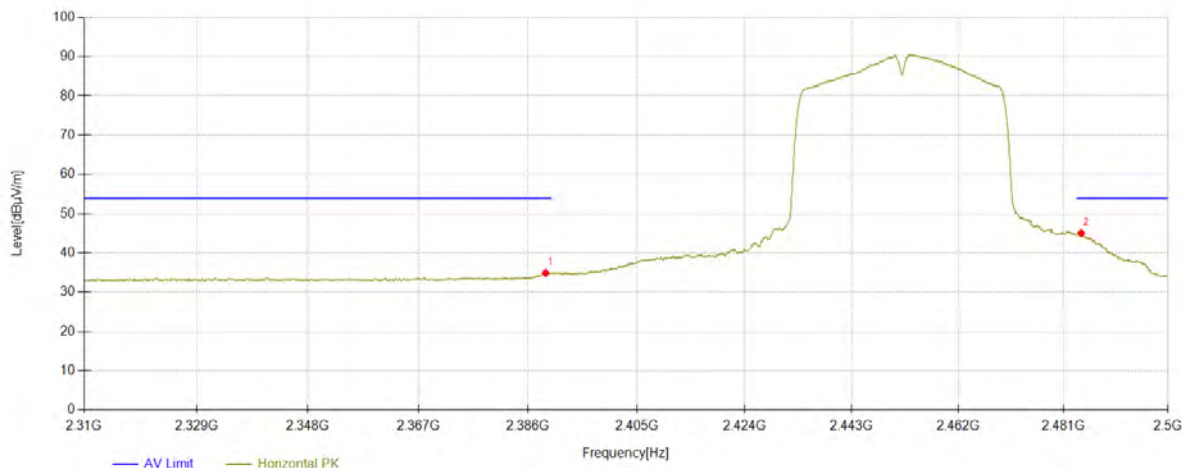
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Report No.: ZEWM2312001976RG04
Page: 133 of 135

802.11n40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.0795	33.48	27.13	-25.70	34.91	54.00	19.09	Horizontal
2	2484.2221	42.83	27.36	-25.14	45.05	54.00	8.95	Horizontal



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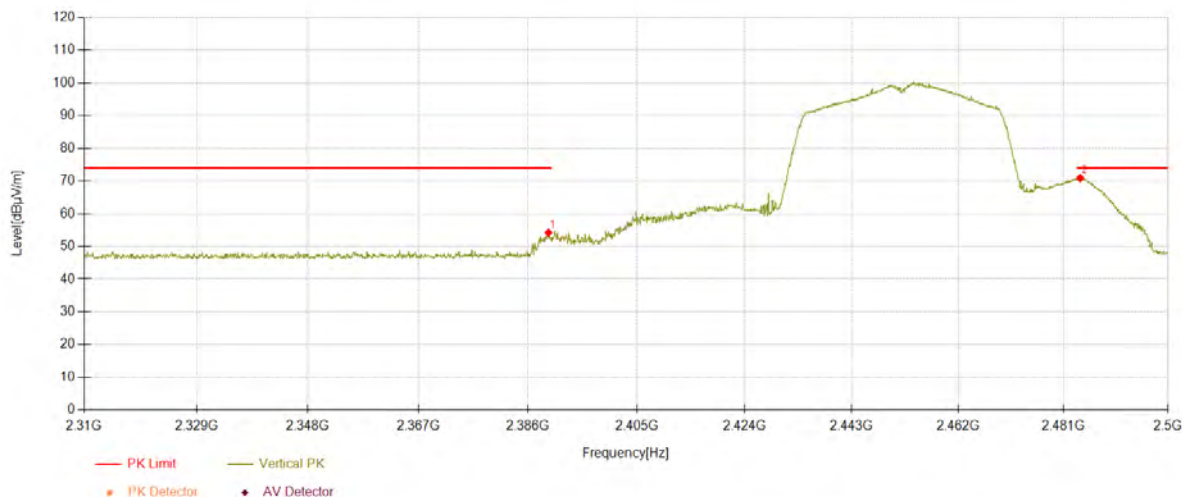
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Report No.: ZEWM2312001976RG04
Page: 134 of 135

802.11n40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.5548	52.77	27.13	-25.70	54.20	74.00	19.80	Vertical
2	2484.032	68.65	27.36	-25.14	70.87	74.00	3.13	Vertical



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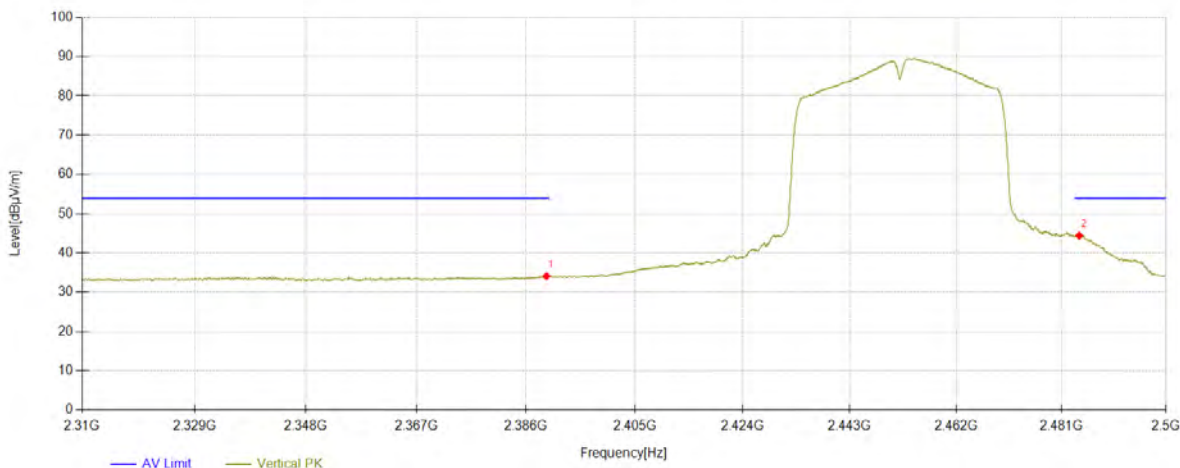
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Report No.: ZEWM2312001976RG04
Page: 135 of 135

802.11n40_Channel 09



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.5548	32.67	27.13	-25.70	34.10	54.00	19.90	Vertical
2	2484.2221	42.21	27.36	-25.14	44.43	54.00	9.57	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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