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 SEWM2212000326RG05

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TEST REPORT

Test Result :	PASS *
Date of Issue:	2023/02/08
Date of Test:	2023/01/09 to 2023/02/08
Date of Receipt:	2023/01/03
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E
FCC ID:	ZMOSC128NA
Trade Mark:	FIBOCOM
Model No.:	SC128-NA
EUT Description:	LTE Module
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Applicant:	Fibocom Wireless Inc.
Application No.:	SEWM2212000326RG

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Sun

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/02/08		Original

Prepared By	Timy Song (Tizzy Song) / Test Engineer
Checked By	(Well Wei) / Reviewer



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Z ICSI	2 Test Summary						
Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result		
Antenna Requirement		15.203/15.407(a)	-	Clause 4.1	PASS		
26dB	Band I	15.407(a)(1)		Clause	Reporting		
Emission	Band II-A	15.407(a)(2)	No limit.	4.5	only		
Bandwidth	Band II-C	15.407(a)(2)			Only		
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS		
99%	Band I						
Occupied	Band II-A	KDB 789033	No limit.	Clause	Reporting		
Bandwidth	Band II-C	D02§ D		4.7	only		
	Band III						
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 4.3	Reporting only		
Maximum	Band I	15.407(a)(iv)	< 250mW				
Conducted	Band II-A	15 407(2)(2)	<min{250mw,11dbm+10*lg(ebw)}< td=""><td>Clause</td><td rowspan="3">PASS</td></min{250mw,11dbm+10*lg(ebw)}<>	Clause	PASS		
Output	Band II-C	15.407(a)(2)		4.4			
Power	Band III	15.407(a)(3)	< 1W				
Maximum	Band I	15.407(a)(iv)	<11dBm/MHz				
Power	Band II-A	15.407(a)(2)	<11dBm/MHz	Clause 4.8	PASS		
Spectral	Band II-C				1 700		
Density	Band III	15.407(a)(3)	<30dBm/500KHz				
	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15- 5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS		
Unwanted Emissions that fall Out of the Restricted Bands (Radiated)	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25- 5.35 GHz). Clause F≥1GHz & in-restricted: 4.9 §15.209/§7.2.5 limit (AV&PK).		PASS		
	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS		
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP)		PASS		

Test Summary 2



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			 a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 		
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	15.209		Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A

Band III: 5725-5850MHz

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3 General Information

3.1 Details of Client

Applicant:	Fibocom Wireless Inc.
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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EUT Description:	LTE Modul	e		
Model No.:	SC128-NA			
Trade Mark:	FIBOCOM			
Hardware Version:	V1.0			
Software Version:	SC128-NA-	S64.00.102		
	RF Conduc	ted	861644060001123 861644060001180	
SN:	RSE & AC	power line	861644060001180 861644060001768	
	802.11a:	20 MHz cha	nnel bandwidth	
WLAN Mode Supported:	802.11n:	20 MHz / 40	MHz channel bandwidth	
	802.11ac:	20 MHz / 40	MHz / 80 MHz channel bandwidth	
Operation Frequency:	5250MHz te 5470MHz te	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz		
	802.11a:	2.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	: OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20)		
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)		
	80MHz:	802.11ac(VHT80)		
Antenna Type:	External Ar	ntenna		
Antenna Gain:	5150MHz to 5250MHz: 4.29dBi 5250MHz to 5350MHz: 4.43dBi 5470MHz to 5725MHz: 3.68dBi 5725MHz to 5850MHz: 1.47dBi			
	Note: The antenn manufactur	antenna gain are derived from the gain information report provided by the		
	SISO 🛛	802.11a/n/ac		
			2.11a/n/ac: Tx & Rx	
Smart System:			2.11n/ac: Tx & Rx	
			2.11n/ac: Tx & Rx	
TDO E (1				
TPC Function:		Not Suppo	ort	
DFS Function:				

3.4 General Description of EUT



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	Slave with radar detection	Slave withou	t radar detection	
RF Cable:	2.0dB			
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.				

Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:				
Mode	Channel	Frequency(MHz)		
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180		
	The Middle channel	5200		
	The Highest channel	5240		
IEEE 802.11n/ac 40MHz	The Lowest channel	5190		
	The Highest channel	5230		
IEEE 802.11ac 80MHz	The Middle channel	5210		

For UNII Band II-A:						
Mode Channel Frequency(N						
	The Lowest channel	5260				
IEEE 802.11a/n/ac 20MHz	The Middle channel	5280				
	The Highest channel	5320				
IEEE 802.11n/ac 40MHz	The Lowest channel	5270				
	The Highest channel	5310				
IEEE 802.11ac 80MHz	The Middle channel	5290				



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For UNII Band II-C:						
Mode	Channel	Frequency(MHz)				
	The Lowest channel	5500				
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580				
	The Highest channel	5700				
	The Lowest channel	5510				
IEEE 802.11n/ac 40MHz	The Middle channel	5550				
	The Highest channel	5670				
IEEE 802.11ac 80MHz	The Lowest channel	5530				
	The Highest channel	5610				

For UNII Band III:						
Mode	Channel	Frequency(MHz)				
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745				
	The Middle channel	5785				
	The Highest channel	5825				
IEEE 802.11n/ac 40MHz	The Lowest channel	5755				
	The Highest channel	5795				
IEEE 802.11ac 80MHz	The Middle channel	5775				

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddla Channal	144 ^[1]	5720	142 ^[2]	5710
Straddle Channel	138 ^[3]	5690	/	/
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20 and 802.11ac VHT20.

2. The above Frequency and Channel were 802.11n HT40 and 802.11ac VHT40.

3. The above Frequency and Channel were 802.11ac VHT80.



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appearance of this document is unlawful and offenders may be prosecuted to the fu	illest extent of the law. Unle	ss otherwise stated the
results shown in this test report refer only to the sample(s) tested and such sample(s)) are retained for 30 days onl	V.
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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

Description	Manufacturer	Model No.			
Motherboard*	Fibocom Wireless Inc.	EVKB-SOC_V1.3			
Adapter*	Zhuzhou Dachuan Electronic Technology Co.,Ltd.	DCT36W120300CN-B0			
Router ASUS GT-AXE11000 (FCC ID MSQ-RTAXJF00)					
Remark: the information with"*" are provided by client.					

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
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 20)	MCS0 (6.5 Mbps)	/
802.11ac (VHT 40)	MCS0 (13.5 Mbps)	/
802.11ac (VHT 80)	MCS0 (29.3 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

 Standard requirement:
 47 CFR Part 15 Section 15.203

 The antenna is External Antenna on the main PCB and no consideration of replacement.

 The best case gain of the antenna is

 5150MHz to 5250MHz: 4.29dBi;*

 5250MHz to 5350MHz: 4.43dBi;*

 5470MHz to 5725MHz: 3.68dBi;*

 5725MHz to 5850MHz: 1.47dBi;*

 *Note:

 The antenna gain are derived from the gain information report provided by the manufacturer.

 Remark:

 As above information is provided and confirmed by the applicant.

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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Test Requirement:	47 CFR Part 15 Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30)kHz			
Limit:		Limit (d	BuV)		
	Frequency range (MHz)	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 log	arithm of the frequency.			
Test Procedure:					

4.2 AC Power Line Conducted Emissions

SG



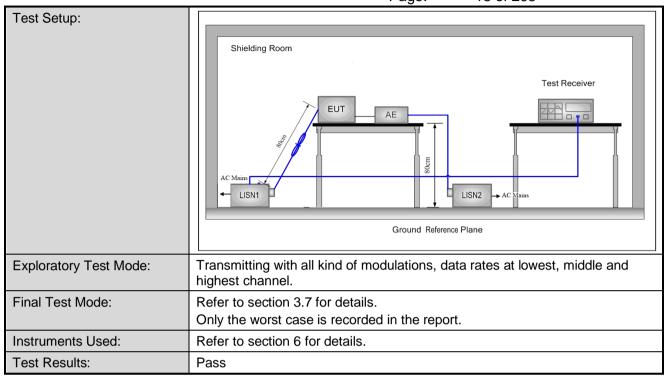
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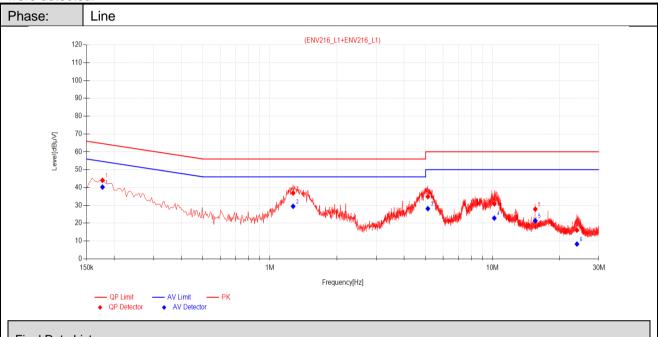
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Measurement Data

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.



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.75	33.29	44.04	64.63	20.59	29.48	40.23	54.63	14.40	PASS
2	1.2705	10.78	26.13	36.91	56.00	19.09	18.70	29.48	46.00	16.52	PASS
3	5.1180	10.65	24.24	34.89	60.00	25.11	17.50	28.15	50.00	21.85	PASS
4	10.1715	10.63	20.16	30.79	60.00	29.21	12.21	22.84	50.00	27.16	PASS
5	15.5490	10.52	17.36	27.88	60.00	32.12	10.81	21.33	50.00	28.67	PASS
6	23.9190	10.31	5.74	16.05	60.00	43.95	-2.01	8.30	50.00	41.70	PASS
Rema	rk:										

1. The following Quasi-Peak and Average measurements were performed on the EUT:

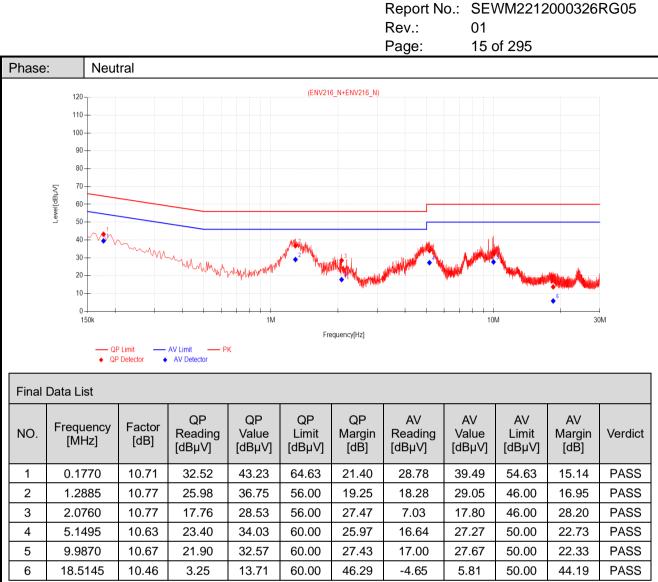
2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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4.3 Duty Cycle

The detailed test data see: Appendix



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Test Requirement:	47 CFR Part 15 Section 15.407(a)(iv)			
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2			
Test Setup:	Power meter			
		Ground Reference Plane		
	Method PM-G is m Measurements ma provided that the g measured only who level. Because the	meter (Detector function: Average) easurement using a gated RF average power meter. y be performed using a wideband gated RF power meter ate parameters are adjusted such that the power is en the EUT is transmitting at its maximum power control measurement is made only during the ON time of the y cycle correction factor is required.		
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	7 for details.		
Limit:	Frequency Band	Limit		
	5150-5250MHz	Not exceed 250mW(24dBm)		
	5250-5350MHz The lesser of 250mW(24dBm) or 11+ 10logB			
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB		
	5725-5850MHz	Not exceed 1W(30dBm)		
	*Where B is the 26dB emission bandwidth in MHz			
Test Results:	Pass			
The detailed test data see: A	ppendix			

4.4 Conducted Output Power



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C			
Test Method:	ANSI C63.10: 2013 Section 12.4.1			
Test Setup:	PC FC Control Unit FF Contr			
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:	Pass			
The detailed test data see: Appendix				



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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)		
Test Method:	ANSI C63.10: 2013 Section 12.4.1		
Test Setup:	PC	Test system	
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:	Frequency Band Limit		
	5725-5850MHz At lease 500kHz		
Test Results:	Pass		
The detailed test data see: A	ppendix		



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4.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D	
Test Method:	ANSI C63.10: 2013 Section 12.4.2	
Test Setup:	PC PC PC Communication Device PF Control Unit PF CONTROL PF CONTR	
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:	Pass	
The detailed test data see: A	ppendix	



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Test Requirement:	47 CFR Part 15 Section 15.407(a)(iv)			
Test Method:	ANSI C63.10: 2013 Section 12.5			
	KDB 789033 D02 v02r01, Section F.			
Test Setup:		Signal Generator Spectrum Analyzer Spectrum Centerator If Control Unit If Contr		
Instruments Used:	Refer to section 6 for	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	.7 for details.		
Limit:	Frequency Band	Limit		
	5150-5250MHz	The power spectral density less than 11dBm/1MHz		
	5250-5350MHz	The power spectral density less than 11dBm/1MHz		
	5470-5725MHz	The power spectral density less than 11dBm/1MHz		
	5725-5850MHz	The power spectral density less than <30dBm/500KHz		
Test Results:	Pass			
The detailed test data see: A	opendix			

4.8 Power Spectral Density



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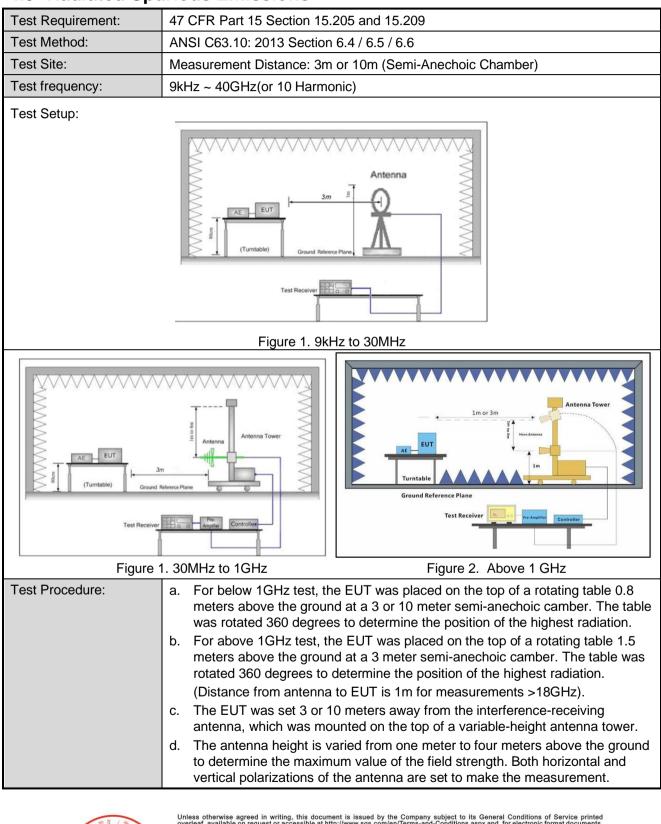
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4.9 Radiated Spurious Emissions





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	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 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. Test the EUT in the outermost channels.	
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X 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.	
	I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1) = 9.54 \text{ dB}.$	
Test Configuration:	Measurements Below 1000MHz	
	• RBW = 120 kHz	
	• VBW = 300 kHz	
	Detector = Quasi-peak	
	Trace mode = max hold Reak Measurements Above 1000 MHz	
	Peak Measurements Above 1000 MHz	
	 RBW = 1 MHz VBW ≥ 3 MHz 	
	Detector = Peak	
	 Detector – Peak Sweep time = auto 	
	Trace mode = max hold	
	Average Measurements Above 1000MHz	
	• RBW = 1 MHz	
	 VBW = 10Hz, 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.	
Final Test Mode:	Refer to section 3.7 for details.	
Instruments Used:	Refer to section 6 for details.	
Test Results:	Pass	
The detailed test data see	e: Appendix	



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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)			
Test Method:	ANSI C63.10: 2013 Section 12.7			
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	
		54.0	Average Value	
	Above 1GHz	74.0	Peak Value	

Test Setup:

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	Antenna Tower Im or 3m Furntable Ground Reference Plane Test Receiver
Test Procedure:	 a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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.
	 e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for



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	Transmitting mode, And found the X 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 ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its
Evolaratory Taat Mada	maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode				
	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode			
	Master Device or Client	Client Without		
	with Radar Detection	Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		
Additional requirements for devices with	Master Device or Client with	Client Without Radar		
multiple bandwidth modes	Radar Detection	Detection		
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required		
Performance Check				
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest		
Transmission Time	available	BW mode available for		
		the link		
All other tests	Any single BW mode	Not required		
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several				
frequencies within the radar detection bandwidth and frequencies near the edge of the radar				
detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the				
bonded 20 MHz channels and the channel center frequency.				



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4.11.2 DFS Detection Thresholds

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 Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value					
	(See Notes 1, 2, and 3)					
$EIRP \ge 200 milliwatt$	-64 dBm					
EIRP < 200 milliwatt and	-62 dBm					
power spectral density < 10 dBm/MHz						
EIRP < 200 milliwatt that do not meet the power spectral density -64 dBm						
requirement						
Note 1: This is the level at the input of the receiver assuming a 0 dB	Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.					
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the						
test transmission waveforms to account for variations in measurement equipment. This will ensure that						
the test signal is at or above the detection threshold level to trigger a DFS response.						
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication						
662911 D01.						



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4.11.3 RADAR TEST WAVEFORMS

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Table 5 – Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Туре	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix} \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (H	Radar Types 1-	4)		80%	120
Note 1: Sho	ort Pulse Rada	r Type 0 should be u	sed for the detection ba	ndwidth test, ch	annel move
time, and cl	nannel closing	; time tests.			



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Table 5a - Pulse Repetition Intervals Values for Test A					
Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)			
		Ì.			
1	1930.5	518			
2	1858.7	538			
3	1792.1	558			
4	1730.1	578			
5	1672.2	598			
6	1618.1	618			
7	1567.4	638			
8	1519.8	658			
9	1474.9	678			
10	1432.7	698			
11	1392.8	718			
12	1355	738			
13	1319.3	758			
14	1285.3	778			
15	1253.1	798			
16	1222.5	818			
17	1193.3	838			
18	1165.6	858			
19	1139	878			
20	1113.6	898			
21	1089.3	918			
22	1066.1	938			
23	326.2	3066			

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful	Minimum Percentage		
		Detections	of Successful		
			Detection		
1	35	29	82.9%		
2	30	18	60%		
3	30	27	90%		
4	50	44	88%		
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%					



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	Table 6 – Long Pulse Radar Test Waveform								
Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum		
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of		
	(µsec)	(MHz)		per Burst		Successful	Trials		
						Detection			
5	50-100	5-20	1000-	1-3	8-20	80%	30		
			2000						

Table 6 – Long Pulse Radar Test Waveform

rubie / requency riopping ruban rest francistin	Table 7 – Free	uency Ho	pping Radar	Test	Waveform
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Γ	Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
	Туре	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
		(µsec)		Hop	(kHz)	Length	Successful	Trials
				_		(msec)	Detection	
	6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix

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

No.	Item	Measurement Uncertainty	
1	Total RF power, conducted	±0.54dB	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	±1.0 %	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±1.0 %	
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)	
		± 3.13dB (9k -30MHz)	
8	Dedicted Emission	± 4.88dB (30M -1GHz)	
	Radiated Emission	± 4.75dB (1GHz to 18GHz)	
		± 4.77dB (Above 18GHz)	

Remark:

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The U_{lab} (lab Uncertainty) is less than U_{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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6 Equipment List

	RF Test Equipment						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14		

CE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18	
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	



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RSE Test System										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)					
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-15	2022/02/16	2023/02/15					
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27					
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22					
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18					
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14					
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04					
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04					
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13					
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09					
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22					
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22					
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22					
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR					



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Emission Bandwidth Test Result

SG

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11a		5180	25.76	5167.16	5192.92	
		5220	26.76	5206.16	5232.92	
		5240	26.40	5226.88	5253.28	
		5260	27.24	5246.20	5273.44	
	Ant1	5300	26.04	5287.08	5313.12	
		5320	26.72	5306.64	5333.36	
		5500	25.72	5487.28	5513.00	
		5580	24.56	5567.48	5592.04	
		5700	26.16	5687.24	5713.40	
		5720	26.96	5706.96	5733.92	
		5720_UNII-2C	18.04	5706.96	5725	
		5720_UNII-3	8.92	5725	5733.92	
		5745	26.80	5732.08	5758.88	
		5785	27.20	5771.20	5798.40	
		5825	25.20	5812.28	5837.48	
		5180	25.32	5167.44	5192.76	Reporting only
		5220	26.12	5207.12	5233.24	
		5240	26.40	5226.76	5253.16	
		5260	25.12	5247.36	5272.48	
		5300	26.72	5286.56	5313.28	
		5320	25.92	5307.32	5333.24	
		5500	27.20	5486.40	5513.60	
11ac20SISO	Ant1	5580	26.76	5566.68	5593.44	
		5700	26.80	5686.76	5713.56	
		5720	25.04	5707.64	5732.68	
		5720_UNII-2C	17.36	5707.64	5725	
		5720 UNII-3	7.68	5725	5732.68	
		5745	26.24	5731.64	5757.88	
		5785	26.80	5771.68	5798.48	
		5825	27.00	5811.24	5838.24	
11ac40SISO	Ant1	5190	40.96	5169.76	5210.72	
		5230	41.20	5209.36	5250.56	
		5270	41.28	5249.36	5290.64	
		5310	41.44	5289.20	5330.64	
		5510	41.52	5489.44	5530.96	
		5550	41.60	5528.96	5570.56	
		5670	41.44	5649.36	5690.80	
		5710	41.44	5689.44	5730.88	
		5710 UNII-2C	35.56	5689.44	5725	
		5710 UNII-3	5.88	5725	5730.88	
		5755	41.20	5734.20	5775.40	
		5795	40.96	5774.52	5815.48	
11ac80SISO	Ant1	5210	95.68	5165.20	5260.88	
		5290	97.44	5243.76	5341.20	
		5530	96.16	5484.24	5580.40	
		5610	96.64	5563.76	5660.40	
		5690	97.60	5643.44	5741.04	
		5690 UNII-2C	81.56	5643.44	5725	
		5690 UNII-3	16.04	5725	5741.04	
		5775	94.08	5729.72	5823.80	



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Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, ac VHT20/40 by referring to their higher output power.



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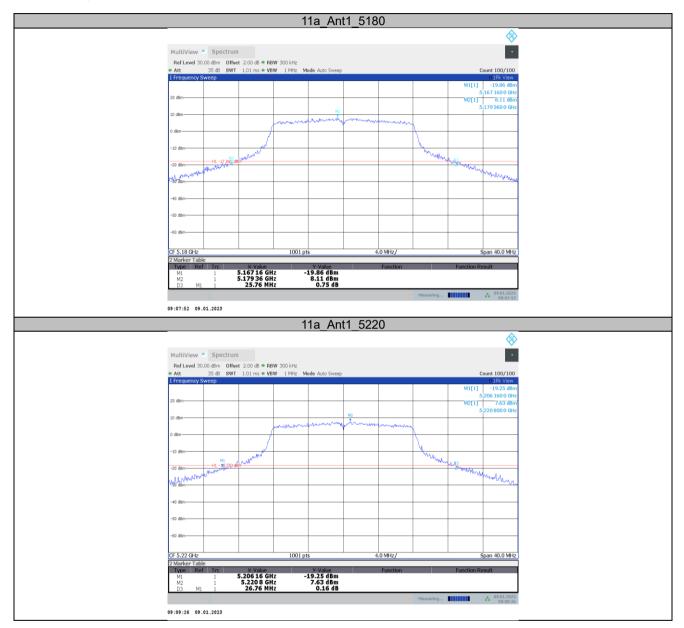
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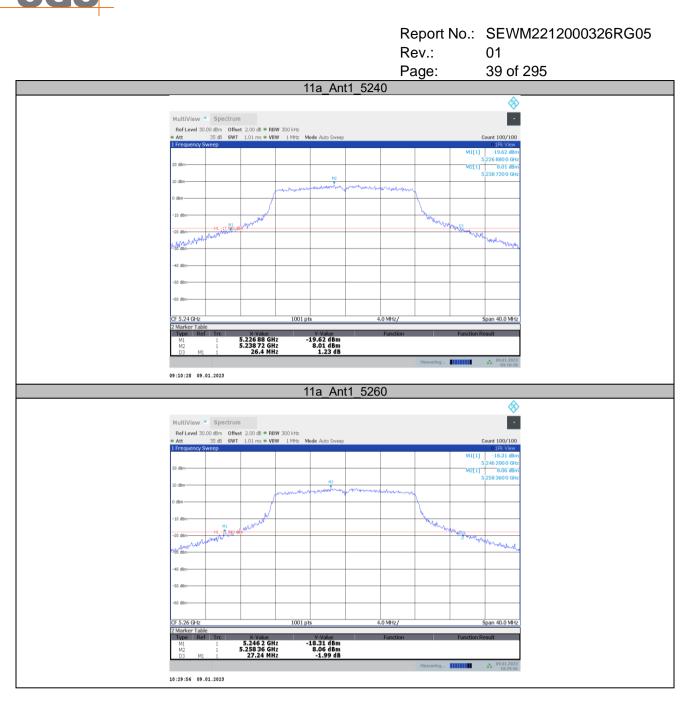


Test Graphs



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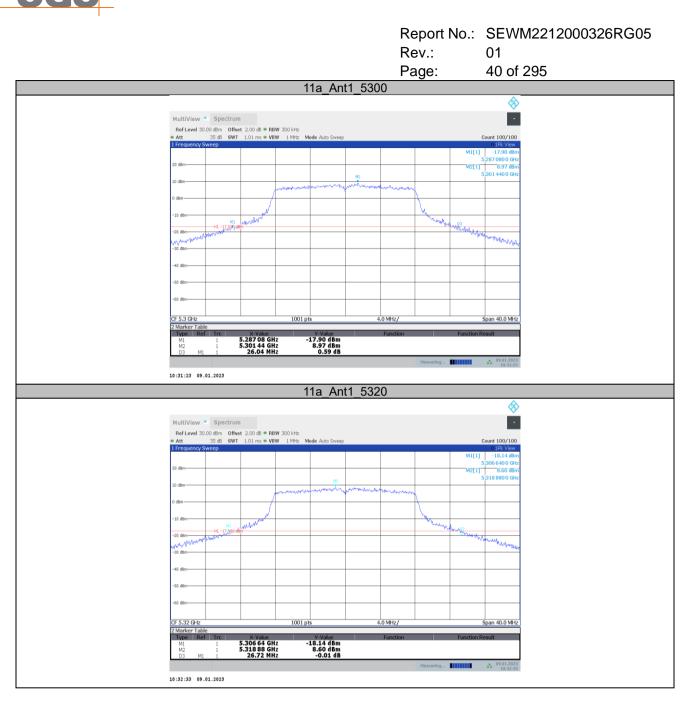
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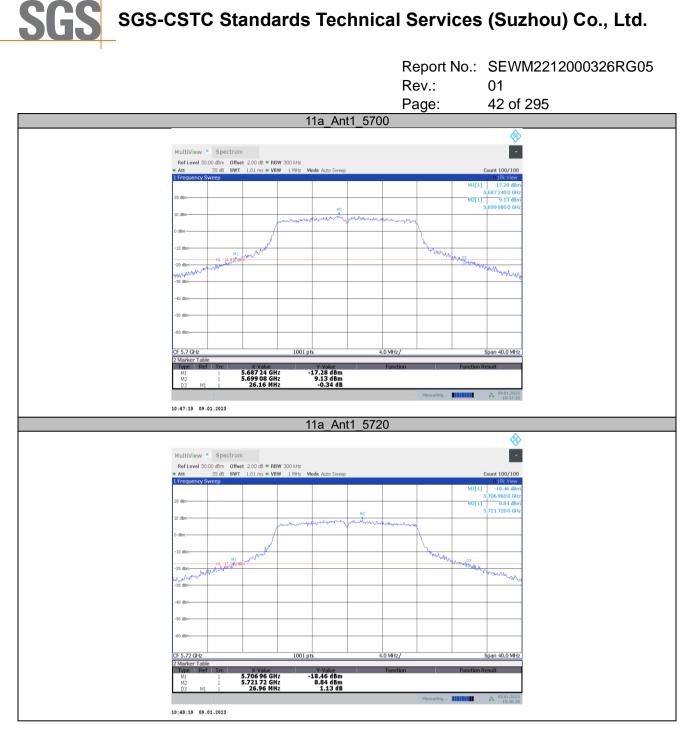
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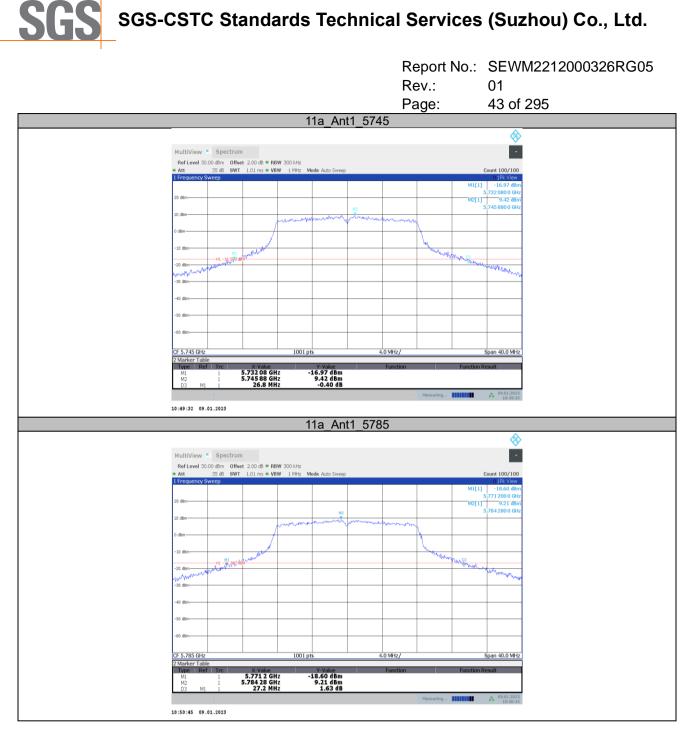
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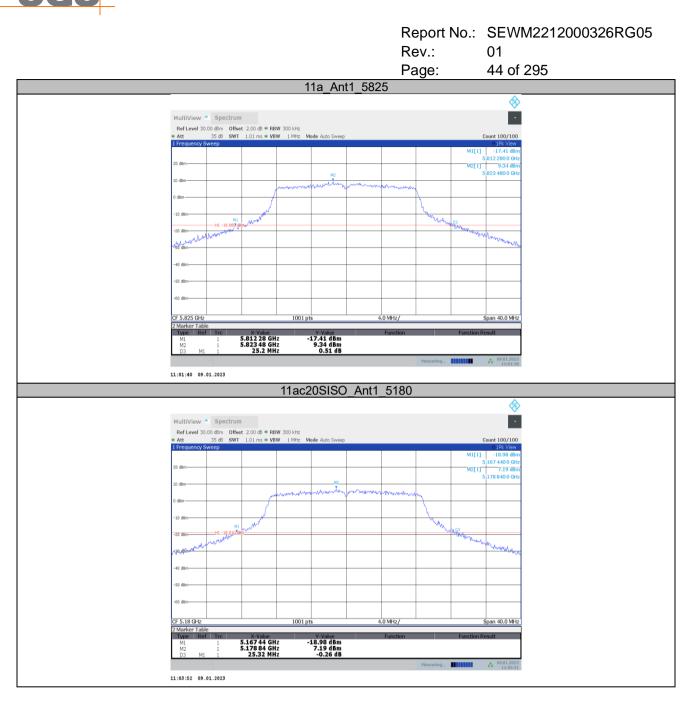
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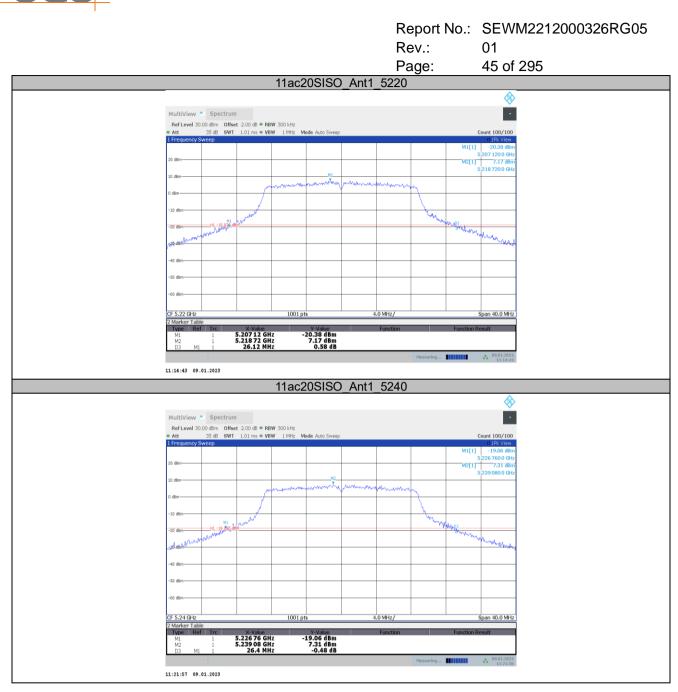
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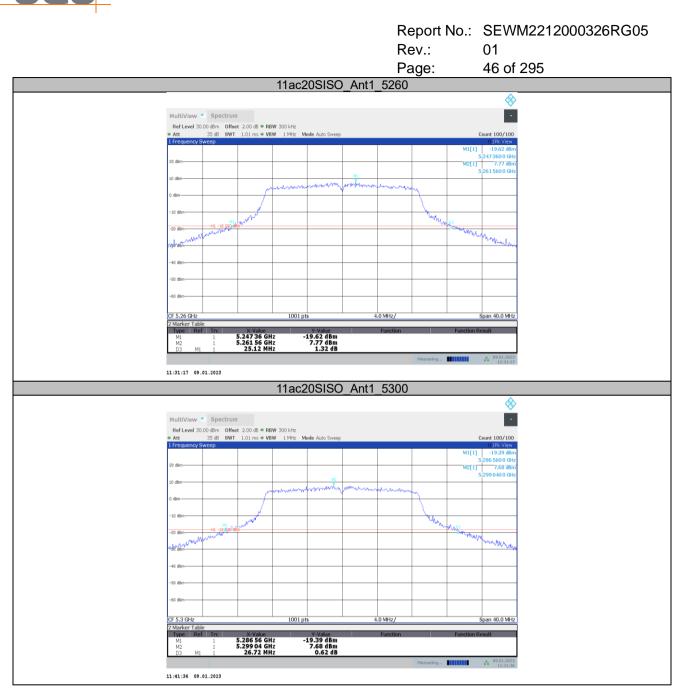
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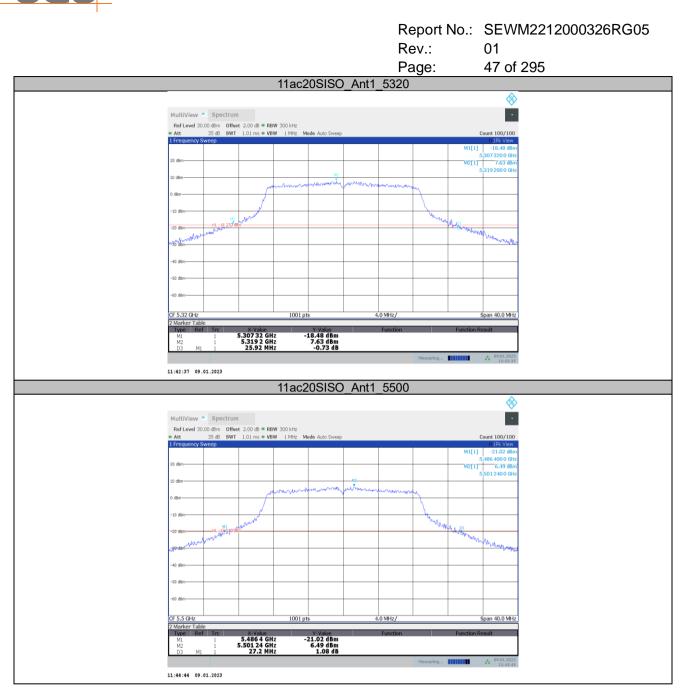
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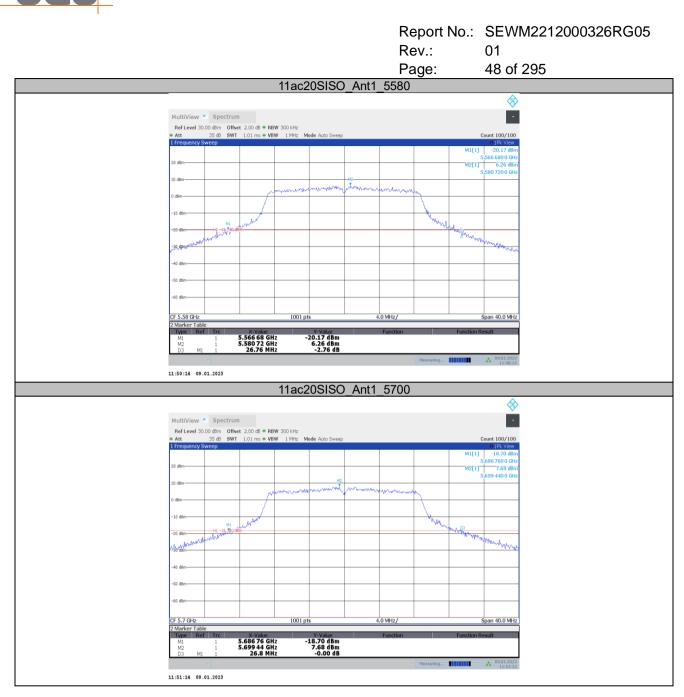
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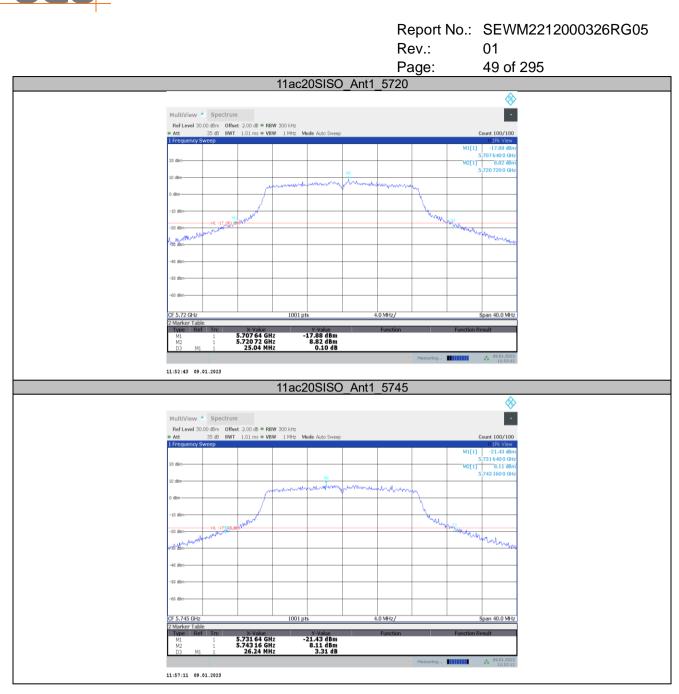
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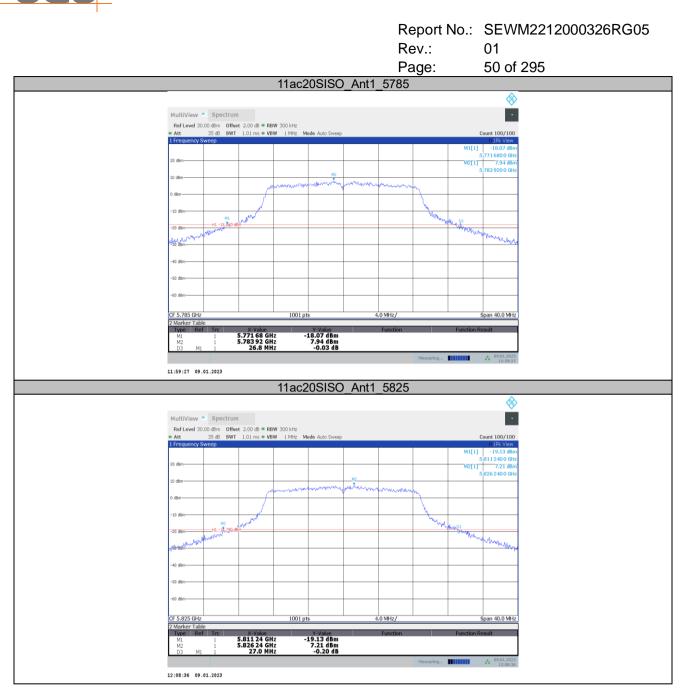
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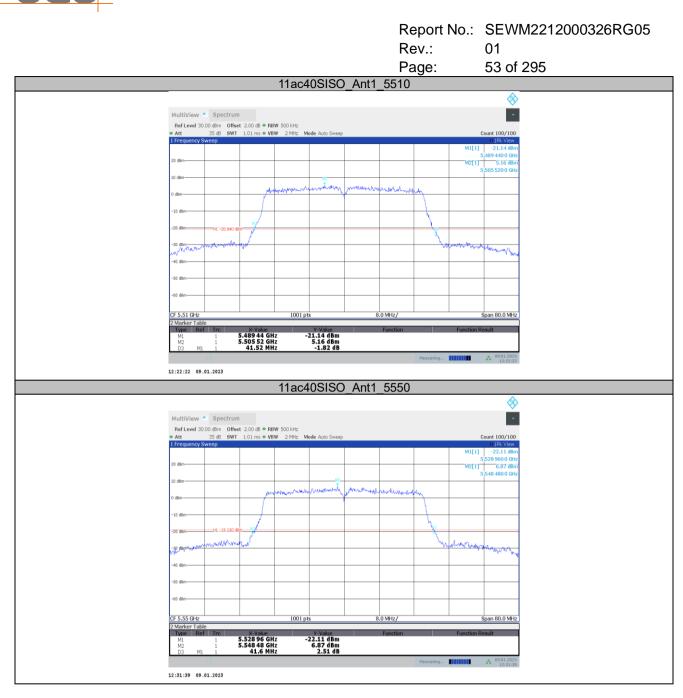
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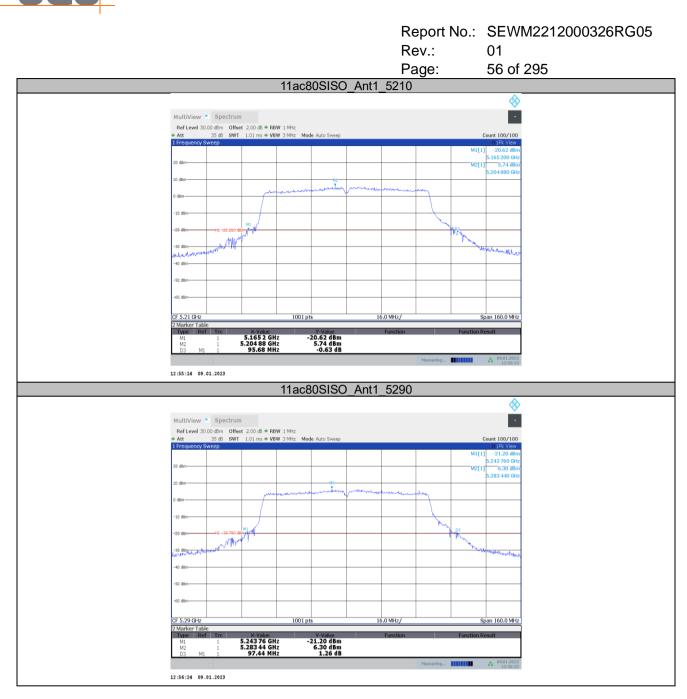
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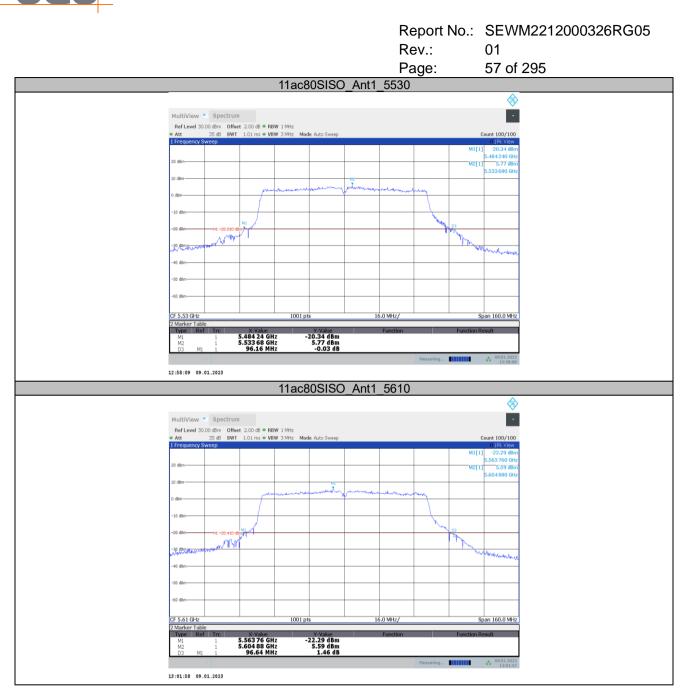
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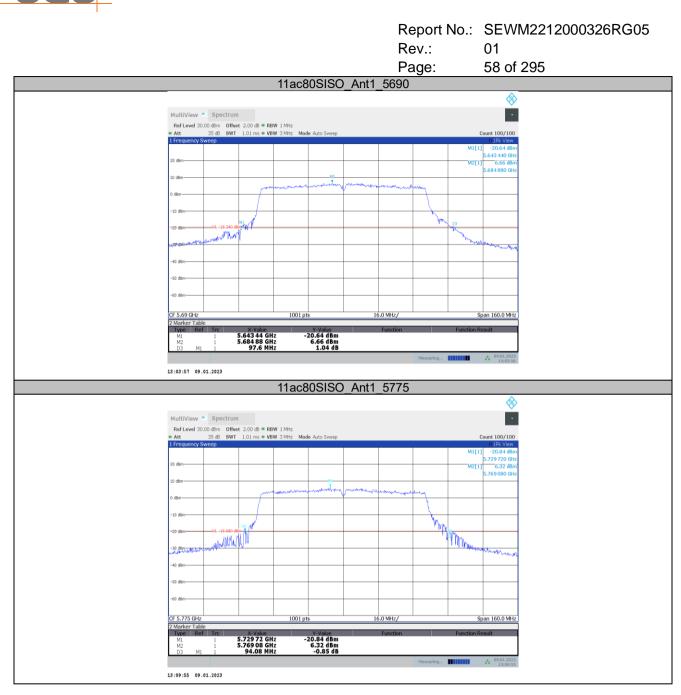
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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11a		5180	17.36	5171.330	5188.690	Reporting only
		5220	17.397	5211.320	5228.717	
	Ant1	5240	17.381	5231.339	5248.720	
		5260	17.417	5251.336	5268.753	
		5300	17.499	5291.285	5308.784	
		5320	17.517	5311.280	5328.796	
		5500	17.378	5491.317	5508.694	
		5580	17.408	5571.277	5588.686	
		5700	17.428	5691.290	5708.718	
		5720	17.562	5711.246	5728.808	
		5720_UNII-2C	13.754	5711.246	5725	
		5720_UNII-3	3.808	5725	5728.808	
		5745	17.576	5736.261	5753.837	
		5785	17.532	5776.265	5793.797	
		5825	17.482	5816.302	5833.784	
11ac20SISO	Ant1	5180	18.315	5170.851	5189.166	
		5220	18.331	5210.843	5229.174	
		5240	18.347	5230.818	5249.165	
		5260	18.343	5250.828	5269.171	
		5300	18.35	5290.821	5309.171	
		5320	18.373	5310.793	5329.166	
		5500	18.342	5490.791	5509.133	
		5580	18.316	5570.832	5589.148	
		5700	18.371	5690.779	5709.150	
		5720	18.391	5710.783	5729.174	
		5720_UNII-2C	14.217	5710.783	5725	
		5720_UNII-3	4.174	5725	5729.174	
		5745	18.365	5735.804	5754.169	
		5785	18.374	5775.797	5794.170	
		5825	18.351	5815.827	5834.178	
11ac40SISO	Ant1	5190	36.769	5171.692	5208.461	
		5230	36.714	5211.702	5248.417	
		5270	36.693	5251.690	5288.383	
		5310	36.729	5291.635	5328.365	
		5510	36.677	5491.652	5528.328	
		5550	36.811	5531.628	5568.439	
		5670	36.725	5651.668	5688.393	
		5710	36.73	5691.648	5728.378	
		5710_UNII-2C	33.352	5691.648	5725	
		5710_UNII-3	3.378	5725	5728.378	
		5755	36.707	5736.651	5773.358	
		5795	36.695	5776.652	5813.347	
11ac80SISO	Ant1	5210	76.799	5172.102	5248.901	
		5290	77.066	5251.918	5328.983	
		5530	76.773	5491.826	5568.599	
		5610	76.769	5571.887	5648.655	
		5690	76.895	5651.847	5728.741	
		5690_UNII-2C	73.153	5651.847	5725	
		5690_UNII-3	3.741	5725	5728.741	
		5775	76.962	5736.790	5813.752	



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Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, ac VHT20/40 by referring to their higher output power.



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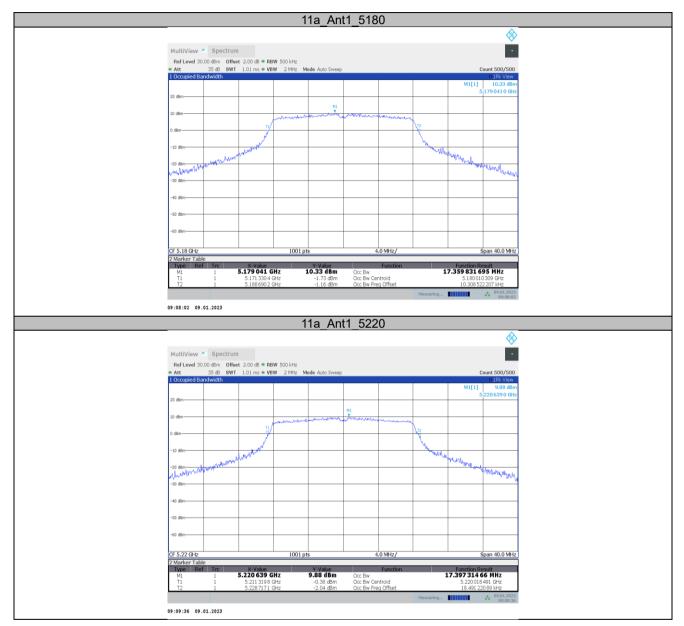
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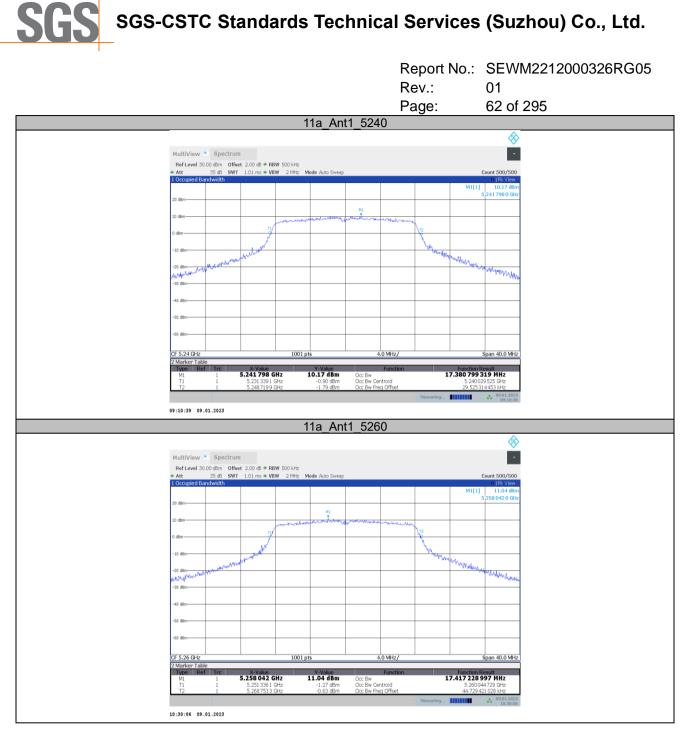


Test Graphs



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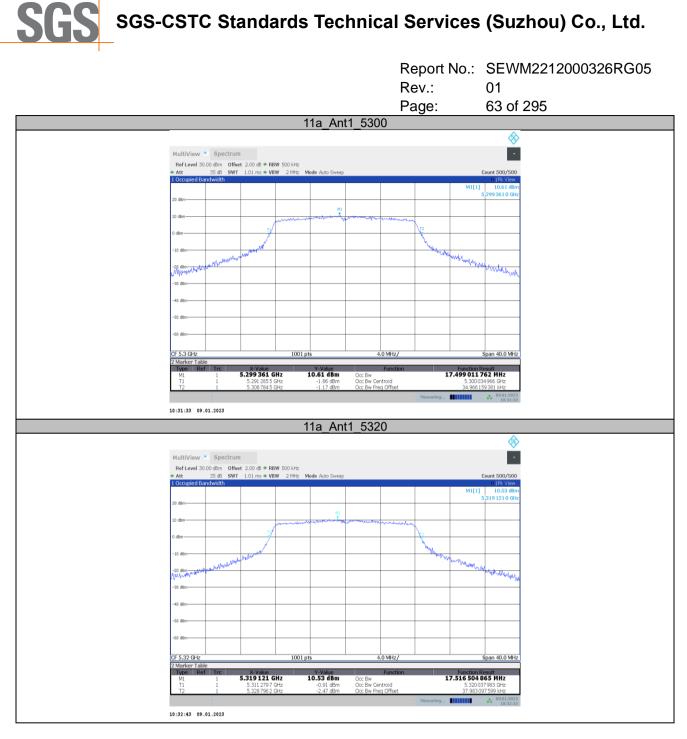
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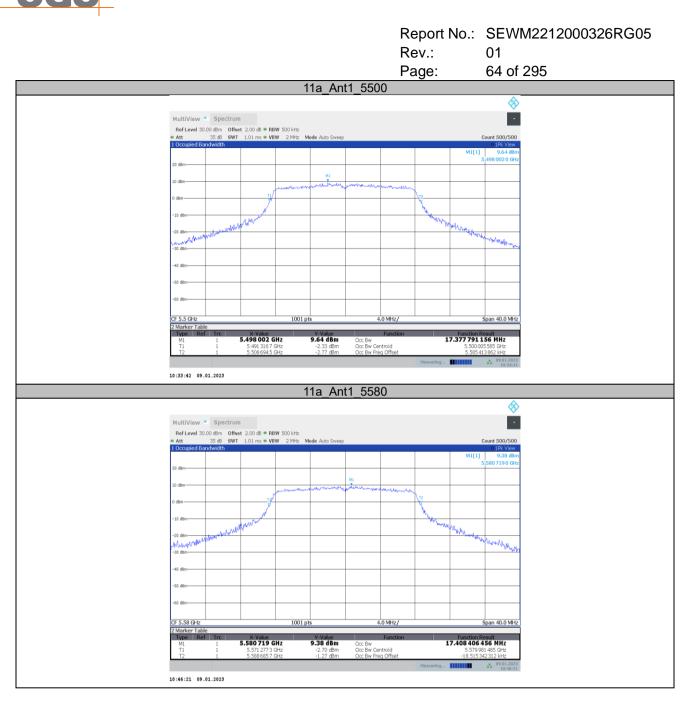
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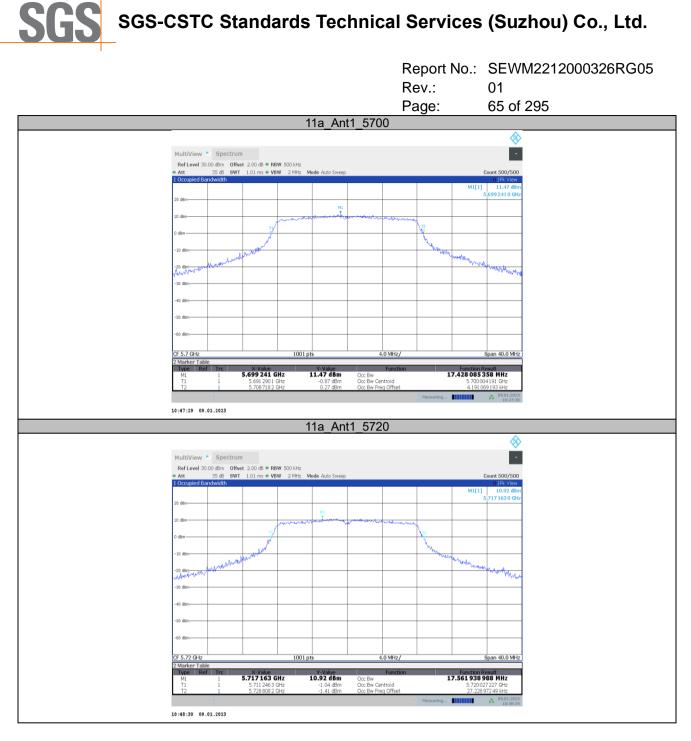
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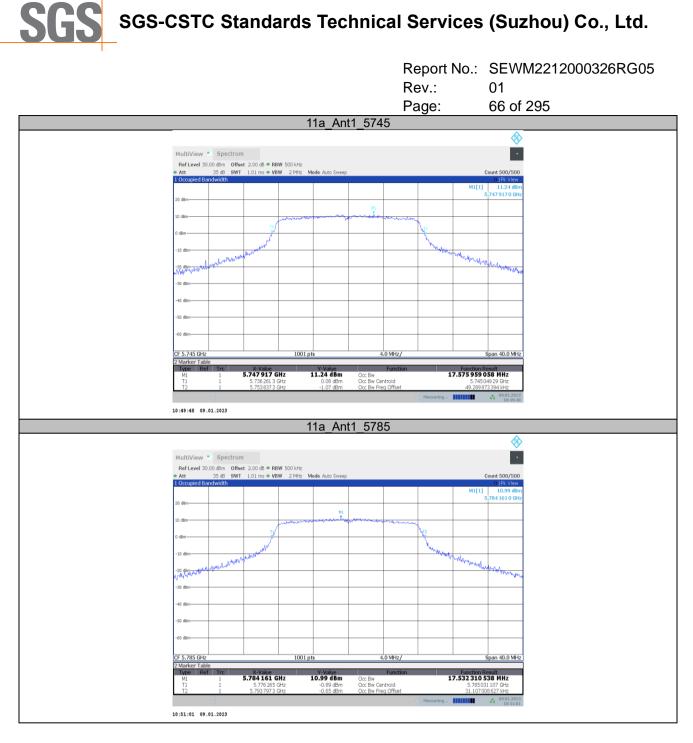
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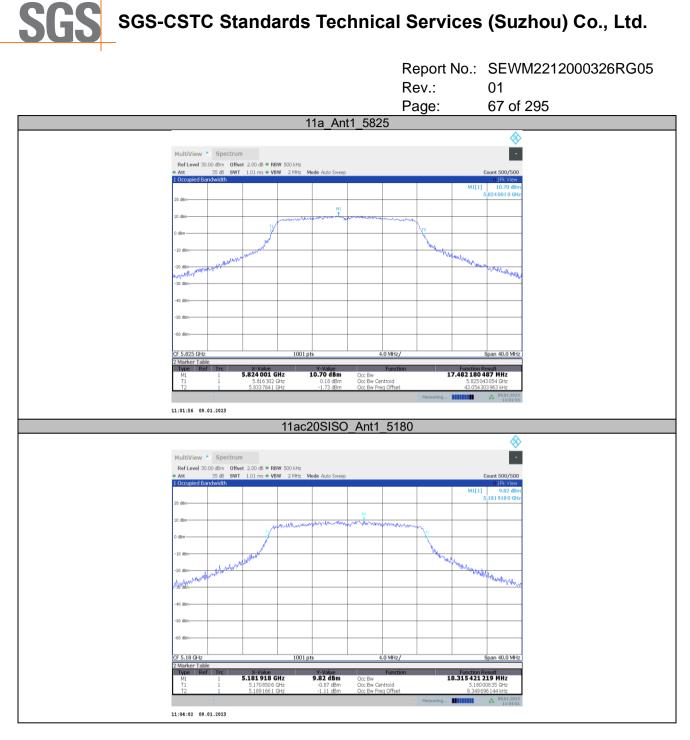
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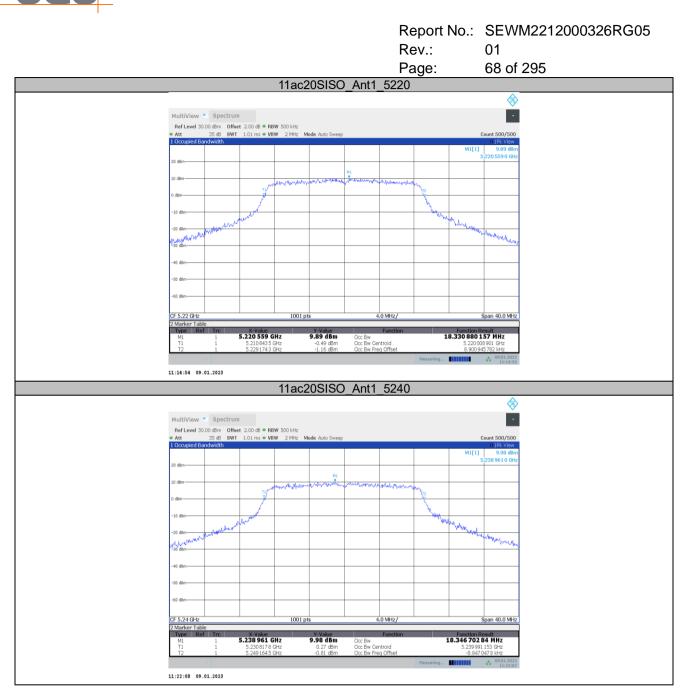
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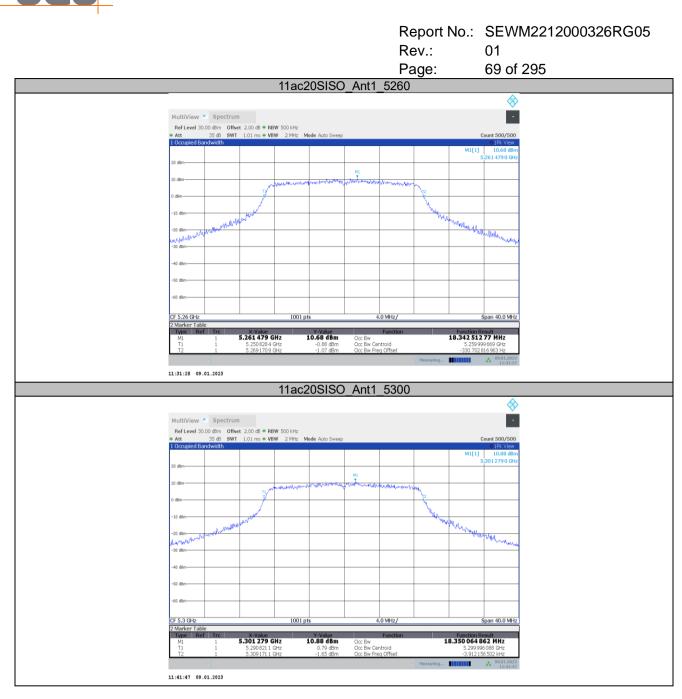
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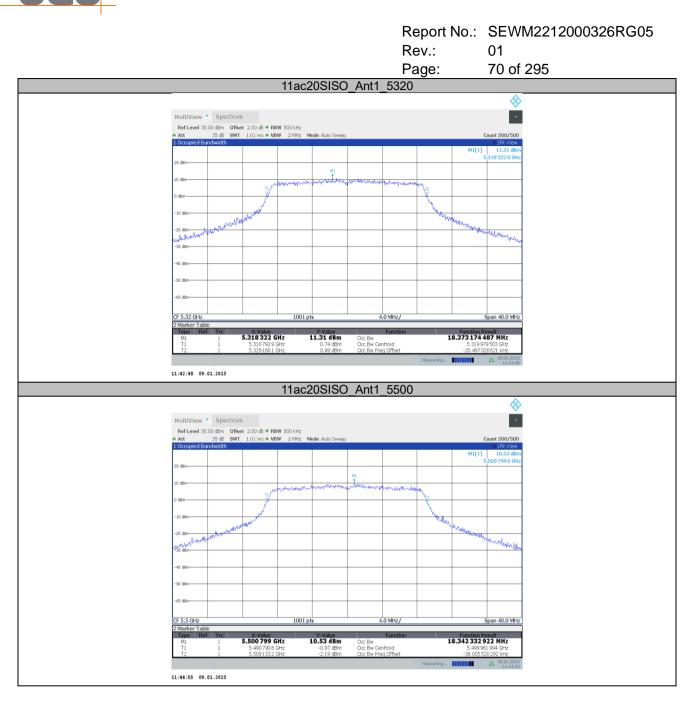
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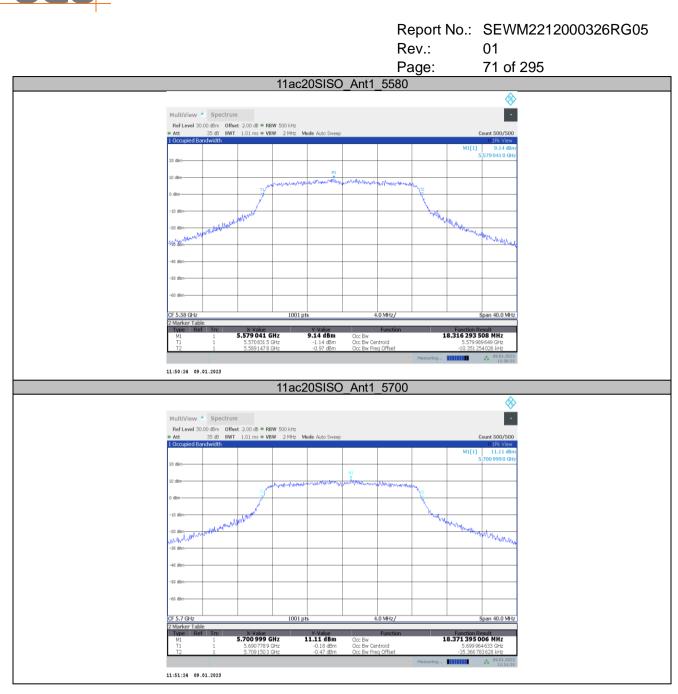
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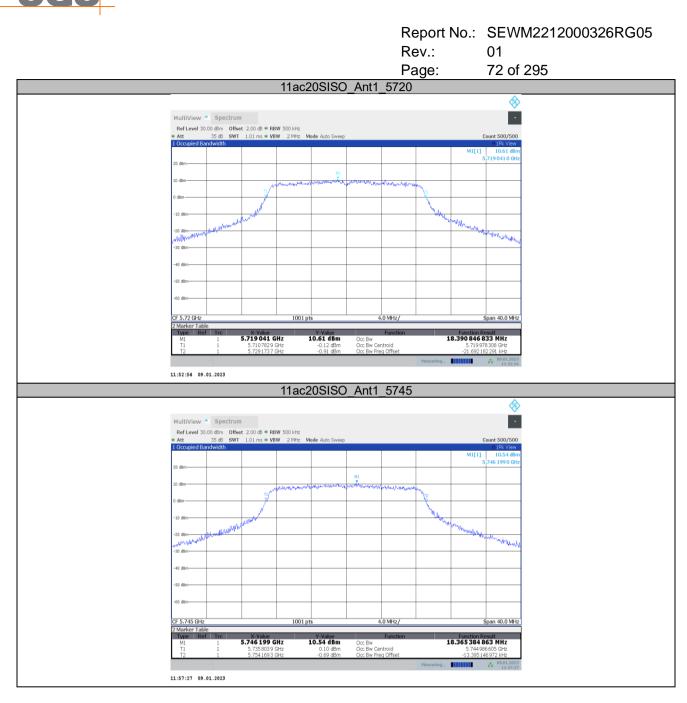
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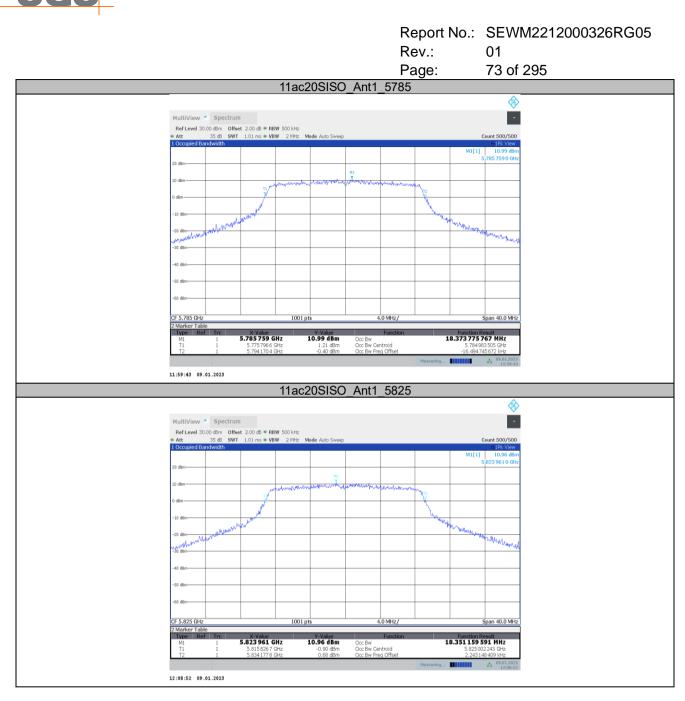
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