



FCC - TEST REPORT

Report Number : **68.950.16.711.01** Date of Issue: **December 16, 2016**

Model : **AIBAO**

Product Type : **R/C Helicopter**

Applicant : **GUANGZHOU Walkera Technology Co., LTD**

Address : **Taishi Industrial Park, Dongchong Town, Nansha District, 511475**
Guangzhou, China

Manufacturer : **GUANGZHOU Walkera Technology Co., LTD**

Address : **Taishi Industrial Park, Dongchong Town, Nansha District, 511475**
Guangzhou, China

Test Result : **Positive** **Negative**

Total pages including Appendices : **35**

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

FCC Registration Number: 502708

IC Registration No: 10320A-1

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3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	R/C Helicopter
Model no.:	AIBAO
FCC ID:	S29AIBAO
Rating:	7.6VDC, (supplied by Li-Po Battery)
RF Transmission Frequency:	5.725GHz~5.850GHz
Modulation:	802.11a: BPSK, QPSK, 16QAM, 64QAM, OFDM
Antenna Type:	Integral Antenna
Antenna Gain:	3.31dBi
Description of the EUT:	The Equipment Under Test (EUT) is a R/C Helicopter with WIFI function which operated at 5GHz Only 5GWiFi test data include in this report.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart E, 10-1-2015 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart E - Unlicensed National Information Infrastructure Devices

Test Method:

FCC KDB 558074 D01 DTS Meas Guidance v03r05

KDB 789033 D02 General UNII Test Procedures New Rules v01r03

ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices

5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart E, FCC Part 15 Subpart C				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
15.207 Conducted Emission AC Power Port	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.403(a)(5) Emission bandwidth	13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(a)(1) 15.407(a)(3) Maximum Conducted Output Power	19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(a)(1) 15.407(a)(3) Peak Power Spectral Density	22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(b)(1) 15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209 Unwanted Emissions	46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duty Cycle	81	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(g) Frequencies Stability	85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.407(h) Dynamic Frequency Selection (DFS). ^a	87	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NOTE 1^a: This result include in this report is not operated in the DFS band of the product.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: ACJ96NAIBAO complies with Section FCC Part 15 Subpart C Rules and FCC Part 15 Subpart E Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: November 07, 2016

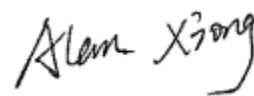
Testing Start Date: November 09, 2016

Testing End Date: December 15, 2016

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch –

Reviewed by:

Prepared by:

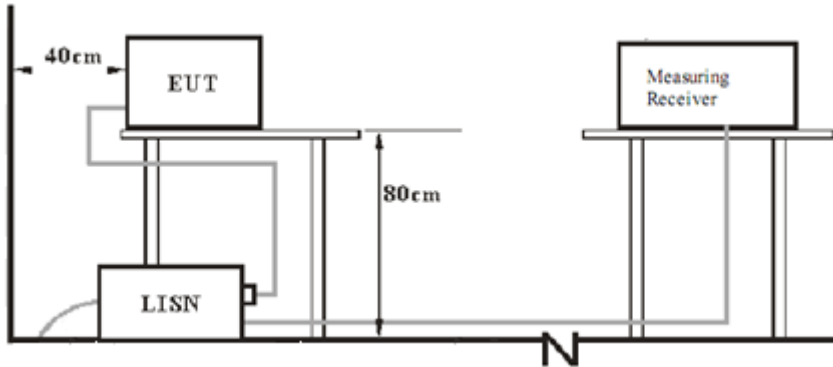


John Zhi
Section Manager

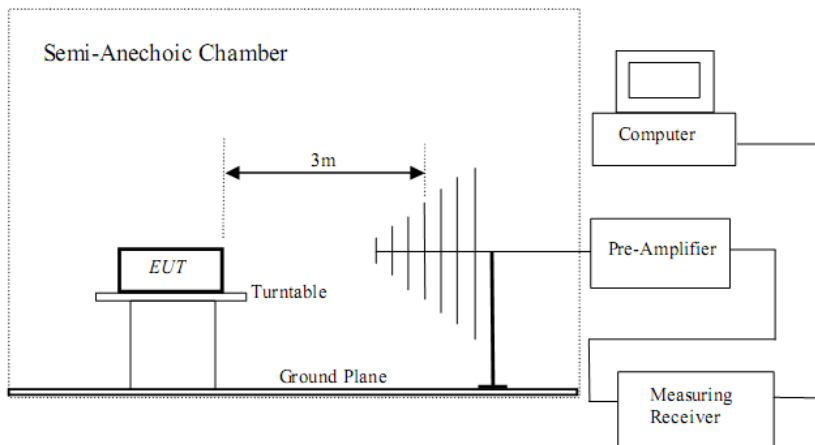
Alan Xiong
Project Engineer

7 Test setups

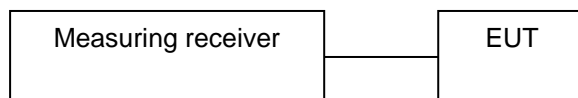
7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups



7.3 Conducted RF test setups



8. Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
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The system was configured to channel 149(5745MHz), 157(5785MHz) and 165(5825MHz) for 802.11a

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

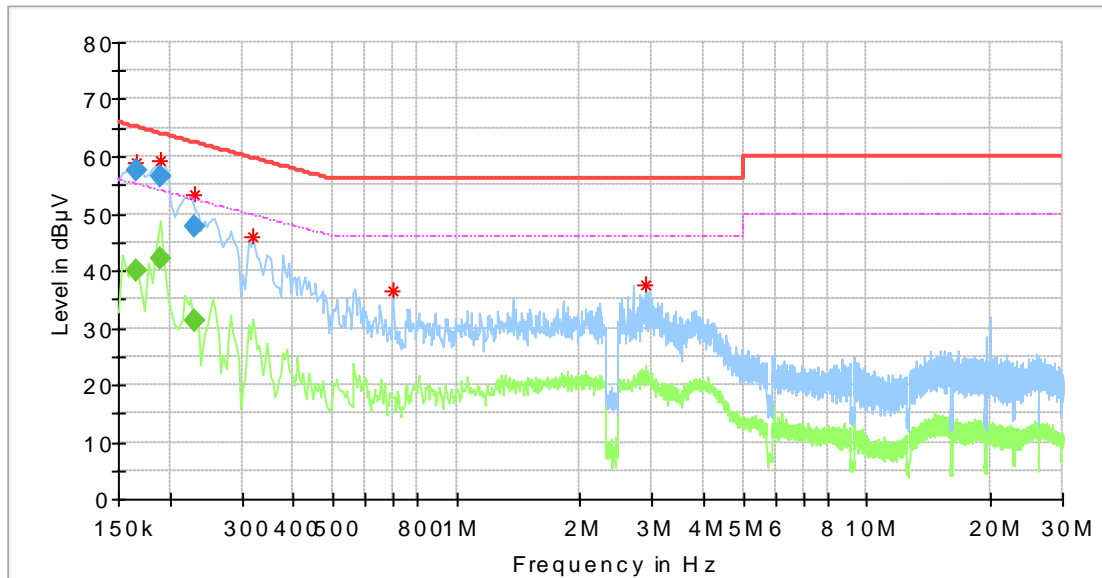
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

Conducted Emission

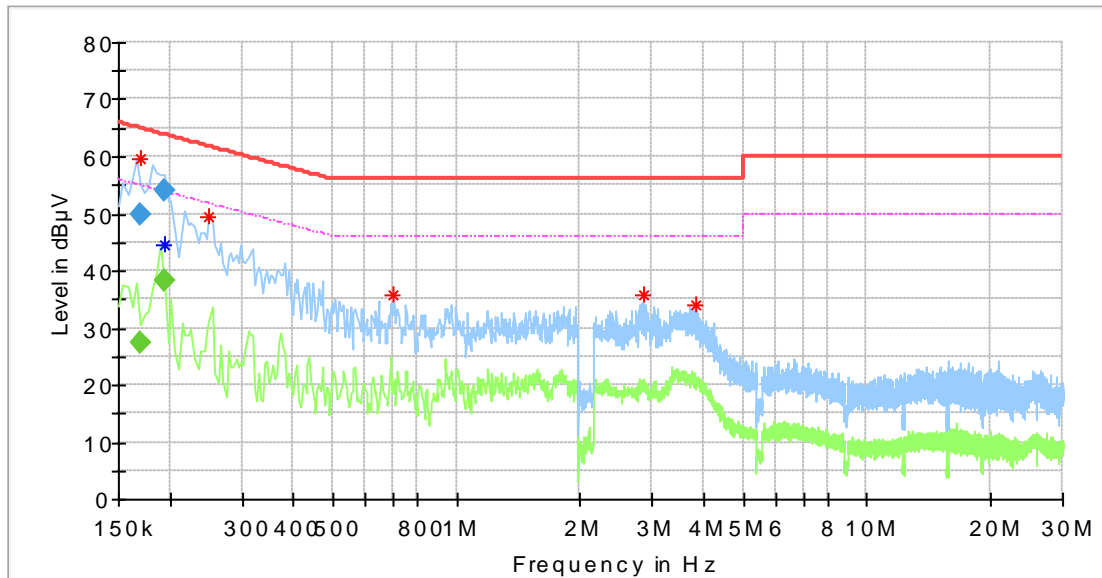
Product Type : R/C Helicopter
 M/N : AIBAO
 Operating Condition : Charging
 Test Specification : Line
 Comment : AC 120V/60Hz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.165500	---	39.95	55.18	15.23	L1	9.7
0.165500	57.53	---	65.18	7.65	L1	9.7
0.189500	---	41.95	54.06	12.11	L1	9.7
0.189500	56.46	---	64.06	7.60	L1	9.7
0.230500	---	31.26	52.43	21.17	L1	9.7
0.230500	47.65	---	62.43	14.78	L1	9.7

Conducted Emission

Product Type : R/C Helicopter
 M/N : AIBAO
 Operating Condition : Charging
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170500	---	27.33	54.94	27.61	N	9.6
0.170500	49.74	---	64.94	15.20	N	9.6
0.193500	---	38.18	53.88	15.70	N	9.6
0.193500	53.92	---	63.88	9.96	N	9.6

9.2 Emission bandwidth

2、 Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: ≥ 500 KHz

3、 Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW $\geq 3 \cdot$ RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99 % power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit

Test result as below table:

IEEE 802.11a modulation Test Result

Band	Channel	Antenna	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)	Measured 6dB Bandwidth (MHz)
5.8G Band	Low	Antenna1	5745	16.551	N/A	16.315
		Antenna2	5745	16.610	N/A	16.139
	Mid	Antenna1	5785	16.904	N/A	16.374
		Antenna2	5785	16.492	N/A	16.374
	High	Antenna1	5825	17.199	N/A	16.374
		Antenna2	5825	16.492	N/A	16.374

Remark: "N/A" means "Not Applicable"

9.3 Maximum conducted output power

Test Method

According to KDB789033 D02

Limits: The maximum conducted output power over the frequency band of operation shall not exceed 1W for 5.725-5.85GHz Band, provided the maximum antenna gain does not exceed 6dBi.

Test result as below table

IEEE 802.11a modulation Test Result

Band	Channel	Frequency (MHz)	Antenna	Power (dBm)	Total Power (dBm)	Power Limit (dBm)
5.8G Band	Low	5745	Antenna1	12.24	17.89	30.00
			Antenna2	16.51		
	Mid	5785	Antenna1	12.06	18.09	30.00
			Antenna2	16.84		
	High	5825	Antenna1	13.13	18.19	30.00
			Antenna2	16.56		

9.4 Maximum power spectral density

Test Method

According to KDB789033 D02

For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHz is available on nearly all spectrum analyzers.

Limit: The maximum power spectral density shall not exceed 30dBm for the 5.8GHz Band in any 1 megahertz band.

IEEE 802.11a modulation Test Result

Band	Channel	Frequency (MHz)	Antenna	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)
5.8G Band	Low	5745	Antenna1	4.33	6.28	30.00
			Antenna2	1.88		
	Mid	5785	Antenna1	4.25	6.28	30.00
			Antenna2	2.01		
	High	5825	Antenna1	4.77	6.72	30.00
			Antenna2	2.03		

9.5 Unwanted emissions

Test Method

According to KBD789033 D02

Limits:

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

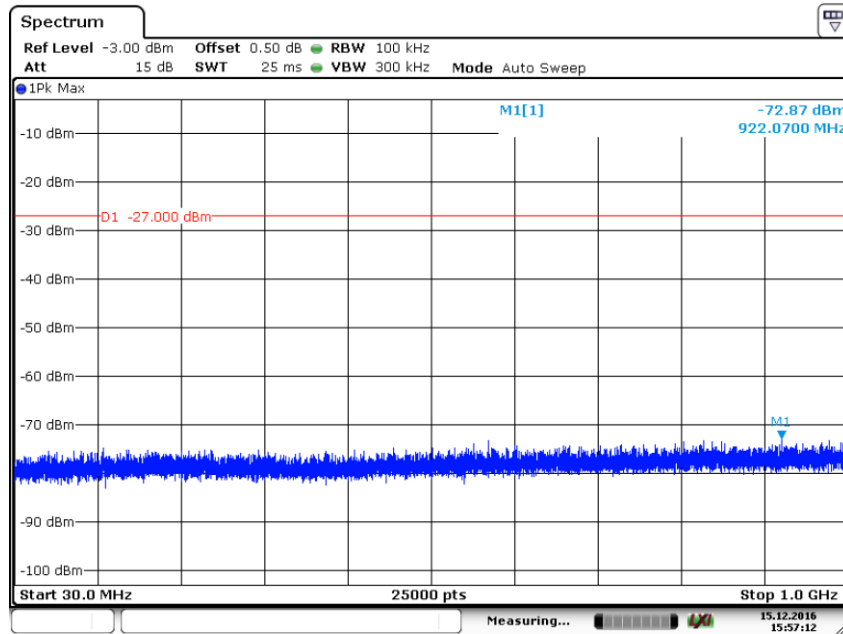
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

The provisions of §15.205 apply to intentional radiators operating under this section.

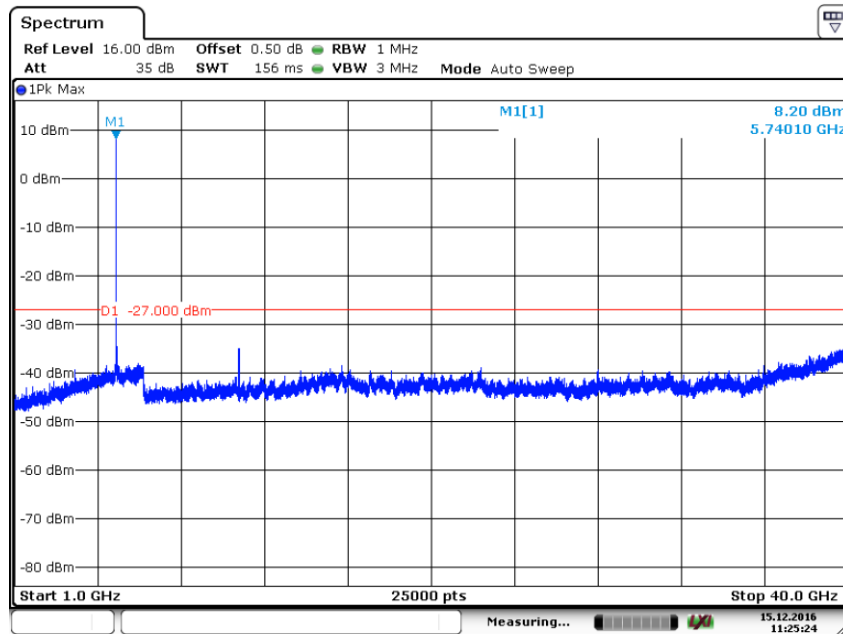
Transmitting spurious emission test result as below (Conducted Mode):

IEEE 802.11a modulation Test Result

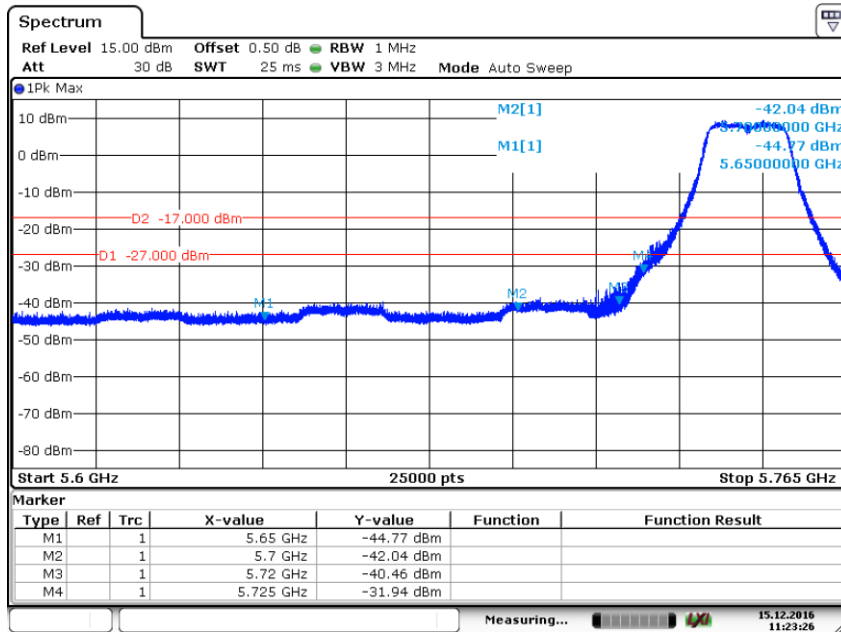
5745MHz-ANT1



Date: 15. DEC. 2016 15:57:12

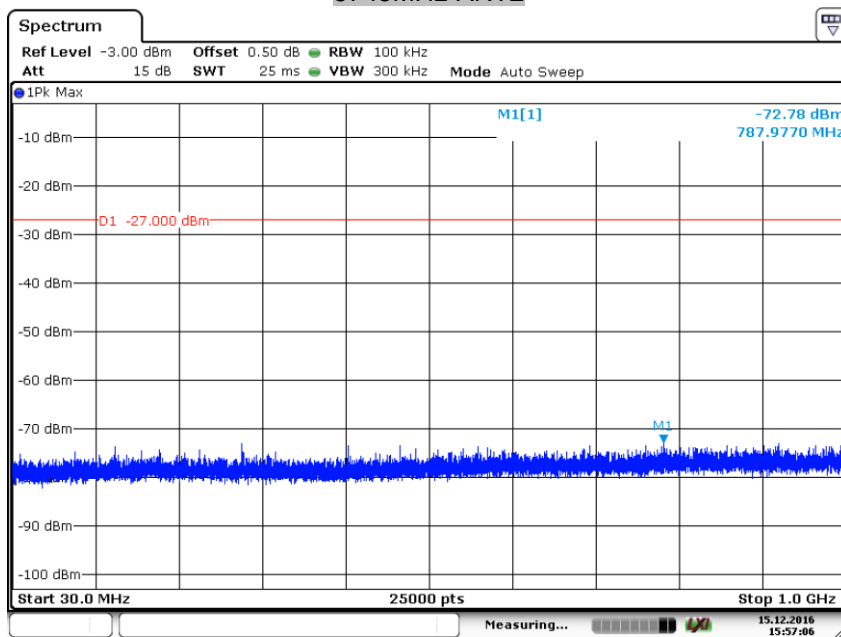


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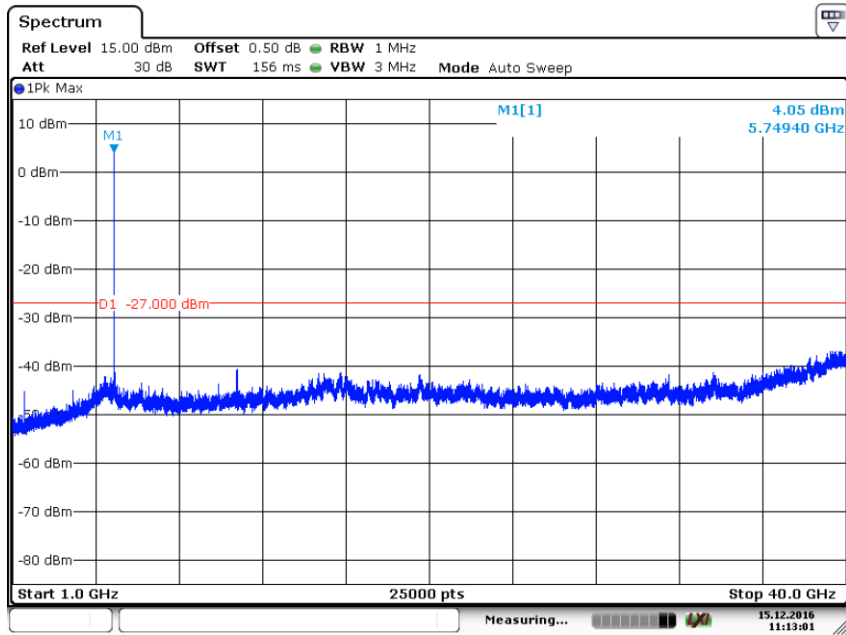


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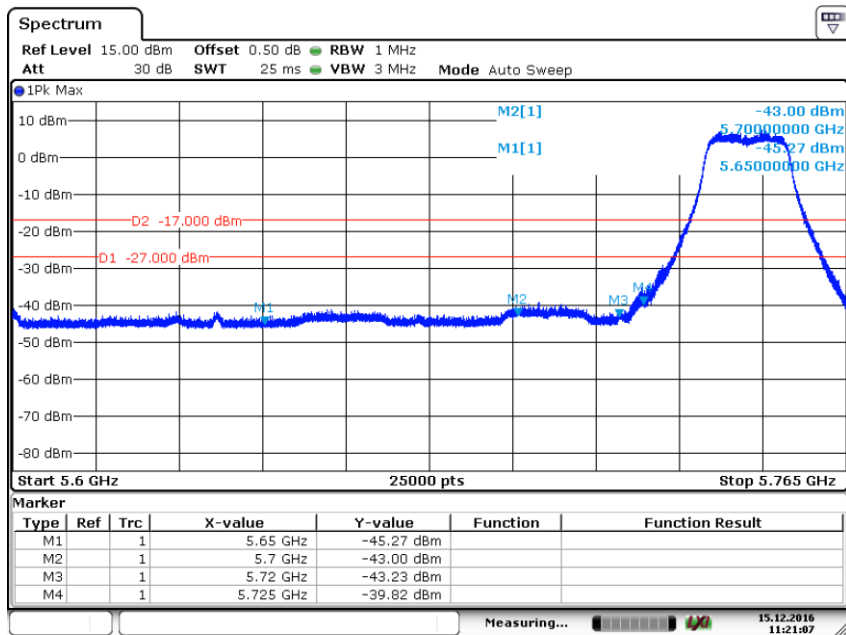
5745MHz-ANT2



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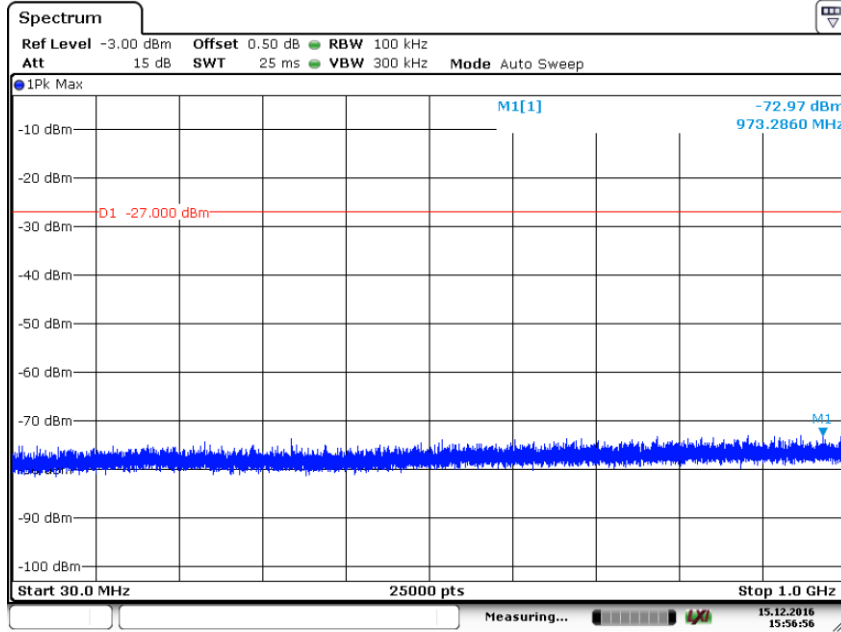


Date: 15.DEC.2016 11:13:02

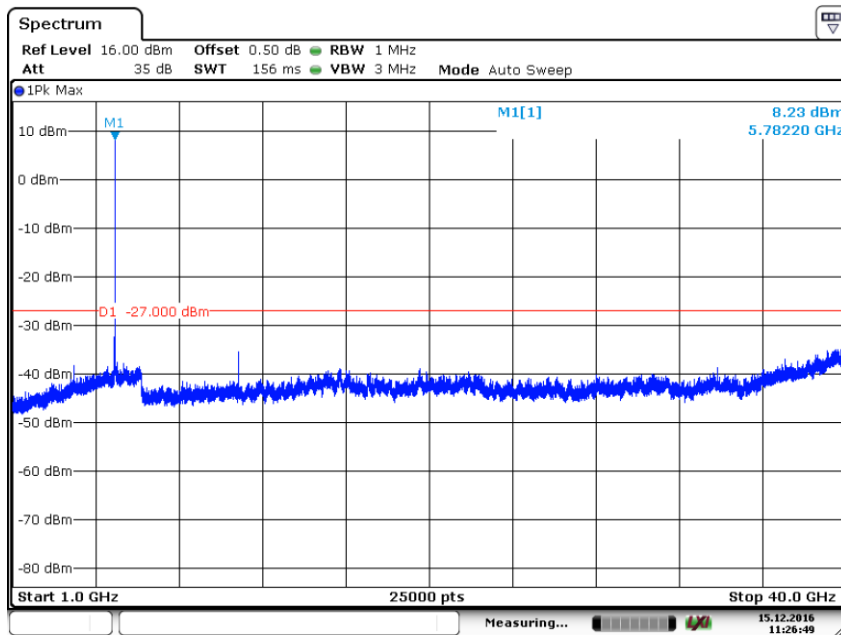


Date: 15.DEC.2016 11:21:07

5785MHz-ANT1

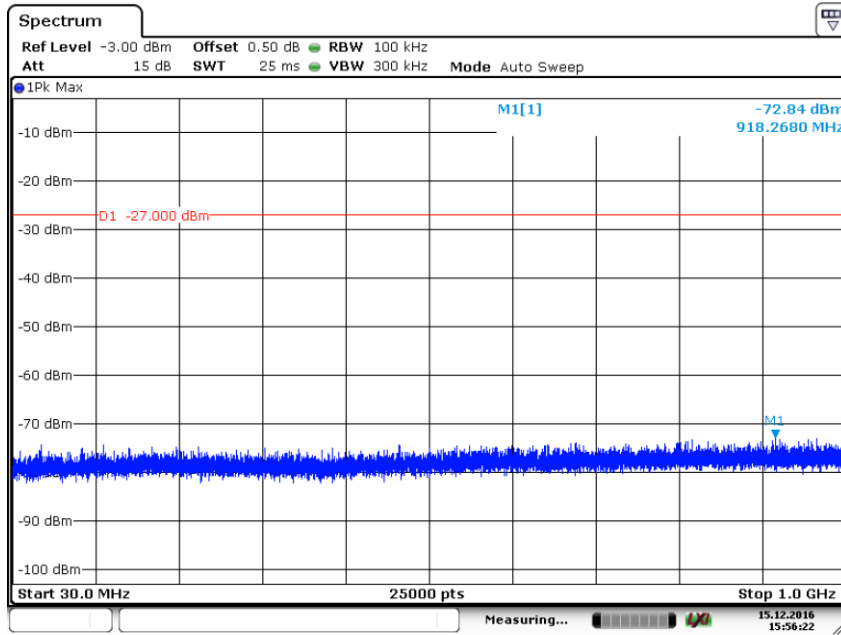


Date: 15.DEC.2016 15:56:55

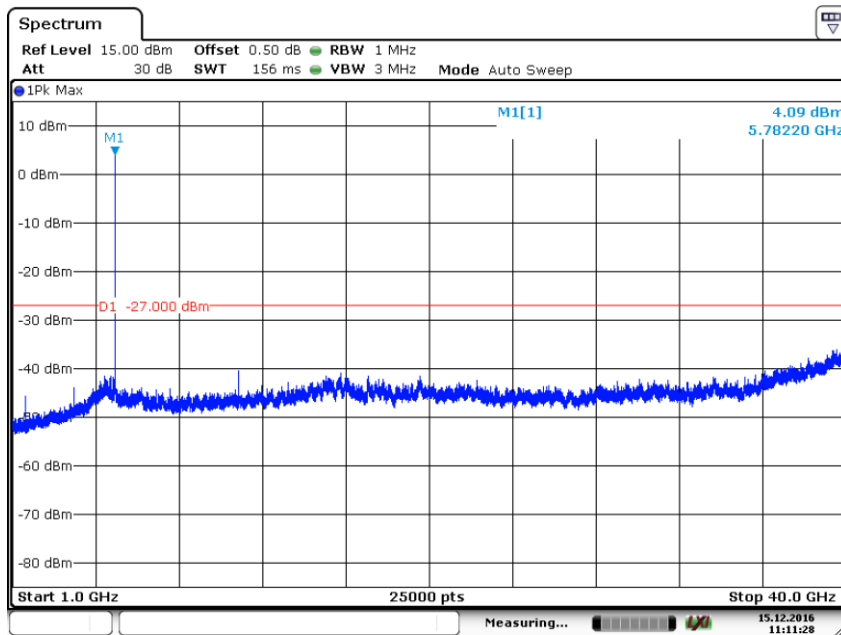


Date: 15.DEC.2016 11:26:49

5785MHz-ANT2

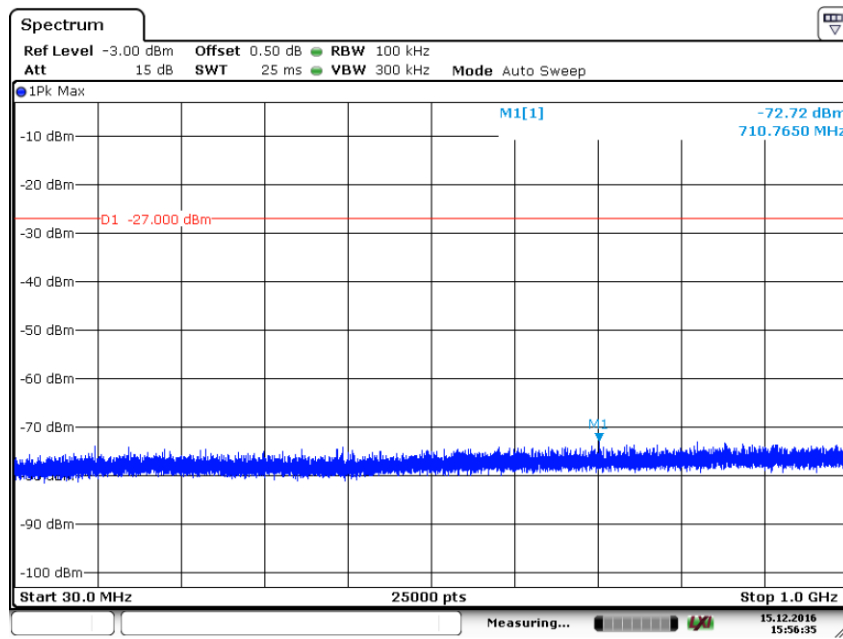


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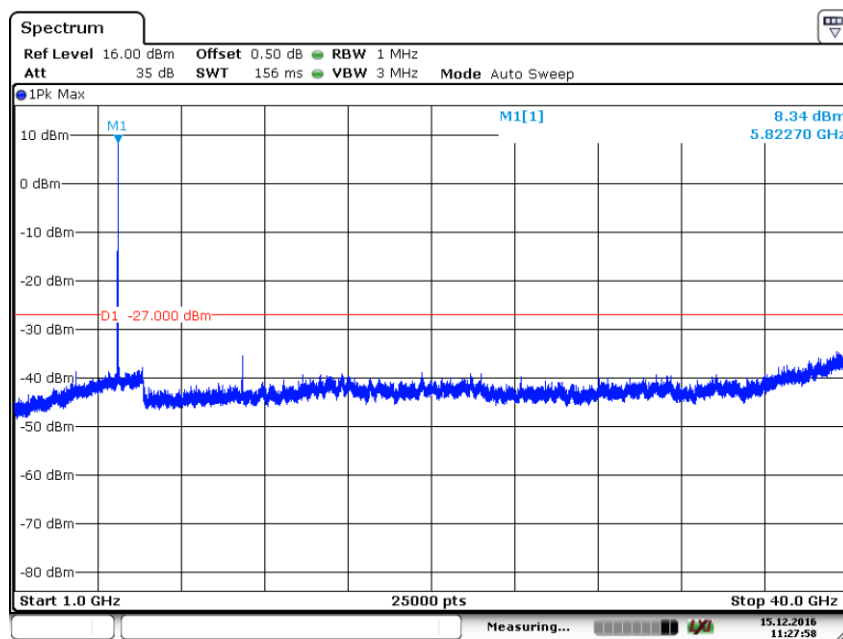


Date: 15.DEC.2016 11:11:28

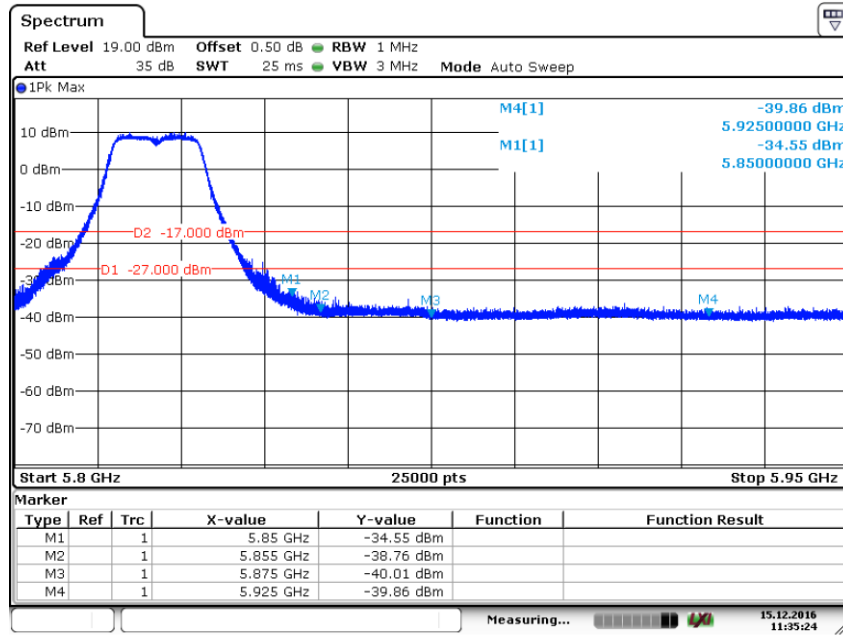
5825MHz-ANT1



Date: 15.DEC.2016 15:56:35

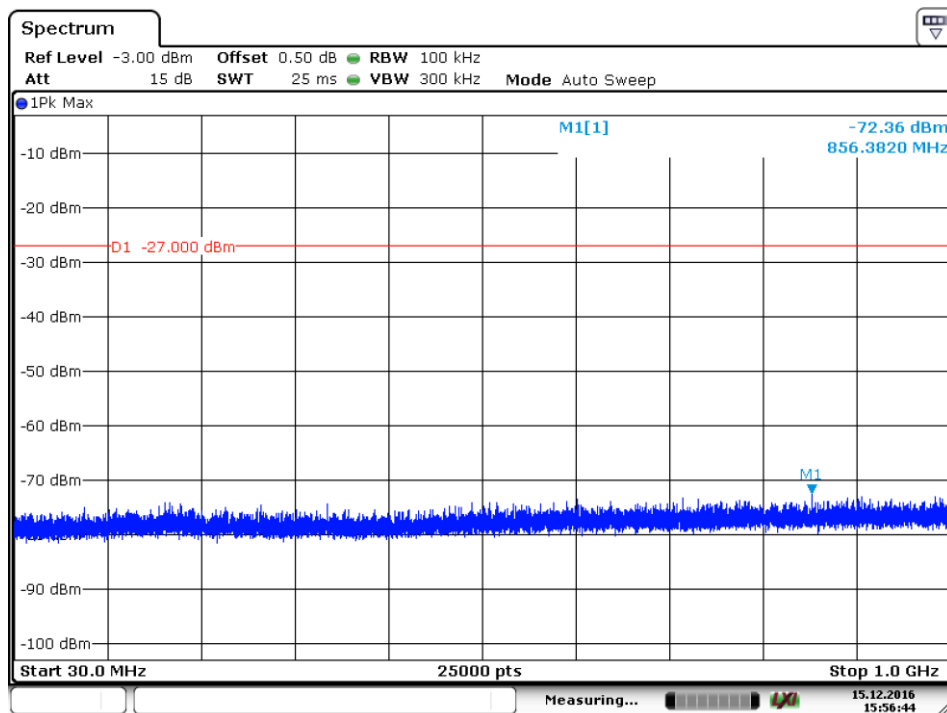


Date: 15.DEC.2016 11:27:58

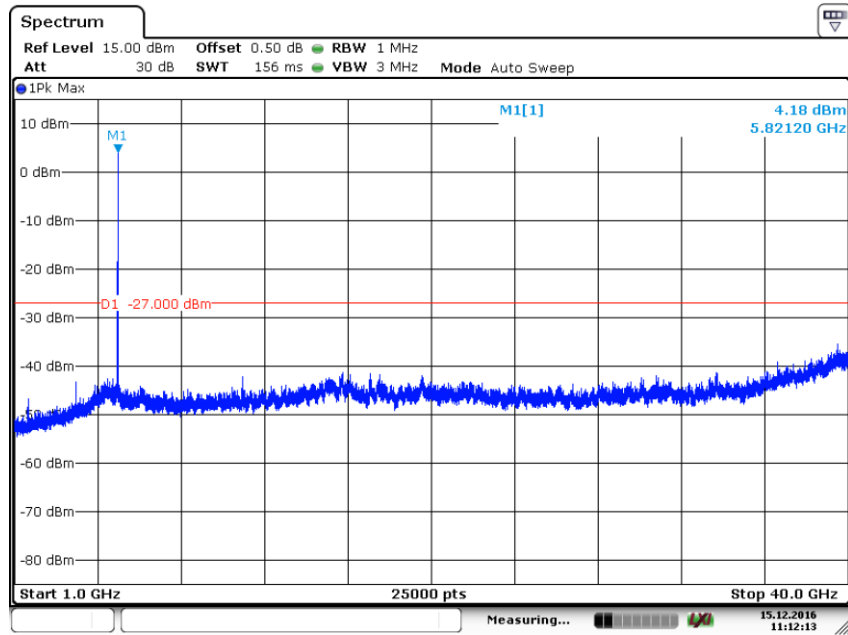


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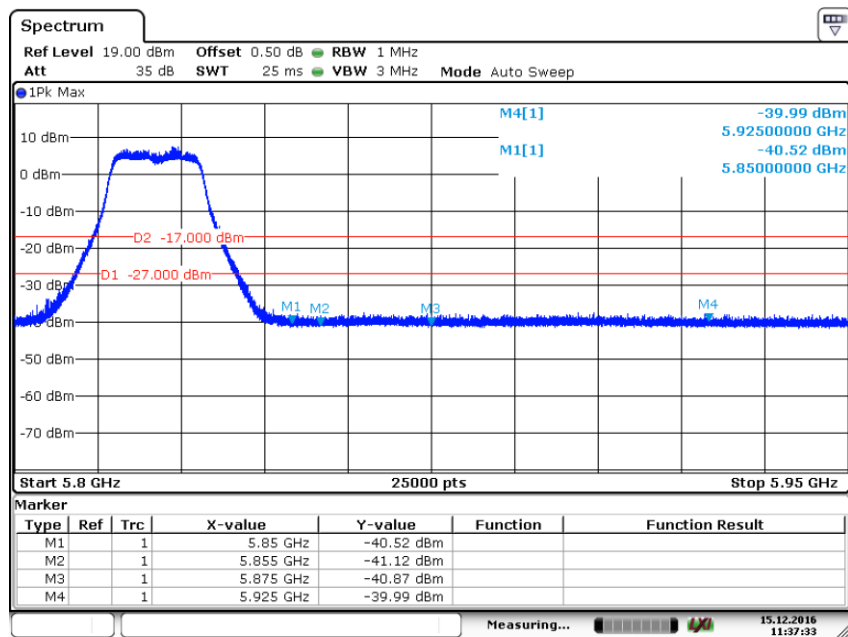
5825MHz-ANT2



Date: 15.DEC.2016 15:56:44



Date: 15.DEC.2016 11:12:13



Date: 15.DEC.2016 11:37:33

Transmitting spurious emission test result as below (Radiated Mode):

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

802.11A Modulation 5745MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dBuV/m	dB		
273.651875	42.01	Horizontal	46.00	3.99	QP	Pass
315.307812	42.51	Horizontal	46.00	3.49	QP	Pass
359.993125	41.61	Horizontal	46.00	4.39	QP	Pass
399.994375	39.24	Vertical	46.00	6.76	QP	Pass
608.605000	38.69	Vertical	46.00	7.31	QP	Pass
899.991875	41.41	Vertical	46.00	4.59	QP	Pass
4995.062500	49.56	Horizontal	74.00	24.46	PK	Pass
3829.937500	49.86	Vertical	74.00	24.14	PK	Pass
11492.468750	51.84	Horizontal	74.00	22.16	PK	Pass
11488.687500	49.31	Vertical	74.00	24.69	PK	Pass
37476.875000	46.95	Horizontal	74.00	27.05	PK	Pass
38380.937500	47.73	Vertical	74.00	26.27	PK	Pass

802.11A Modulation 5785MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dBuV/m	dB		
3856.937500	48.27	Horizontal	74	25.73	PK	Pass
3857.125000	46.94	Vertical	74	27.06	PK	Pass
11567.406250	51.55	Horizontal	74	22.45	PK	Pass
11571.187500	52.66	Vertical	74	21.34	PK	Pass
38377.500000	47.53	Horizontal	74	26.47	PK	Pass
34711.062500	46.20	Vertical	74	27.80	PK	Pass

802.11A Modulation 5825MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dBuV/m	dB		
3883.750000	47.25	Horizontal	74	26.75	PK	Pass
1620.250000	48.48	Vertical	74	25.52	PK	Pass
11646.468750	51.90	Horizontal	74	22.10	PK	Pass
11649.562500	52.21	Vertical	74	21.79	PK	Pass
39656.937500	47.36	Horizontal	74	26.64	PK	Pass
35584.187500	46.97	Vertical	74	27.03	PK	Pass

Remark:

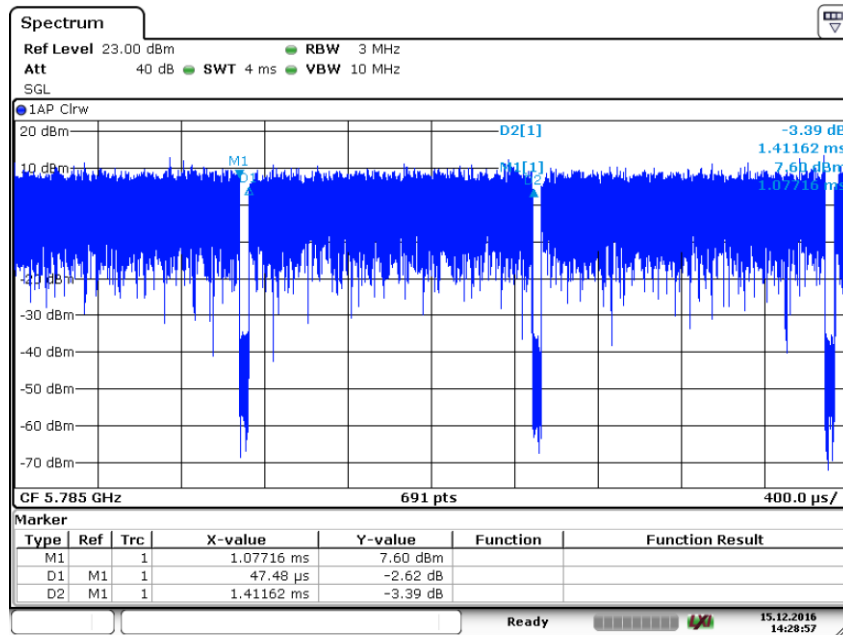
- (1) QP Emission Level= Antenna Factor +Cable Loss + Reading
 PK Emission Level= Antenna Factor +Cable Loss - Amp. factor + Reading
 Because the max PK Emission Level less than 54dBuV/m, so according to C63.10, the AV emission level fulfill the requirement of Limit.
- (2) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

9.6 Duty Cycle

Test Data:

Mode	ON Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)
802.11a	1.364	1.412	0.966	96.6%

802.11a



Date: 15. DEC. 2016 14:28:57

9.7 Frequencies Stability

Frequency Error at -30°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.097
V max(V)	5745.088
V min(V)	5745.079
Max. Deviation Frequency	0.097
Max. Frequency Error (ppm)	16.884

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.525
V max(V)	5785.469
V min(V)	5785.497
Max. Deviation Frequency	0.525
Max. Frequency Error (ppm)	90.752

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.491
V max(V)	5825.417
V min(V)	5825.402
Max. Deviation Frequency	0.511
Max. Frequency Error (ppm)	84.292

Frequency Error at -20°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.068
V max(V)	5745.071
V min(V)	5745.069
Max. Deviation Frequency	0.071
Max. Frequency Error (ppm)	12.359

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.549
V max(V)	5785.499
V min(V)	5785.512
Max. Deviation Frequency	0.587
Max. Frequency Error (ppm)	94.901

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.431
V max(V)	5825.398
V min(V)	5825.365
Max. Deviation Frequency	0.398
Max. Frequency Error (ppm)	68.26

Frequency Error at -10°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.056
V max(V)	5745.061
V min(V)	5745.057
Max. Deviation Frequency	0.061
Max. Frequency Error (ppm)	10.618

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.511
V max(V)	5785.469
V min(V)	5785.474
Max. Deviation Frequency	0.511
Max. Frequency Error (ppm)	88.332

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.405
V max(V)	5825.377
V min(V)	5825.346
Max. Deviation Frequency	0.405
Max. Frequency Error (ppm)	69.528

Frequency Error at 0°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.065
V max(V)	5745.049
V min(V)	5745.051
Max. Deviation Frequency	0.065
Max. Frequency Error (ppm)	11.314

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.468
V max(V)	5785.439
V min(V)	5785.496
Max. Deviation Frequency	0.496
Max. Frequency Error (ppm)	85.739

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.375
V max(V)	5825.367
V min(V)	5825.339
Max. Deviation Frequency	0.375
Max. Frequency Error (ppm)	64.378

Frequency Error at 10°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.047
V max(V)	5745.037
V min(V)	5745.039
Max. Deviation Frequency	0.047
Max. Frequency Error (ppm)	8.181

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.507
V max(V)	5785.472
V min(V)	5785.458
Max. Deviation Frequency	0.507
Max. Frequency Error (ppm)	87.640

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.421
V max(V)	5825.383
V min(V)	5825.372
Max. Deviation Frequency	0.383
Max. Frequency Error (ppm)	65.751

Frequency Error at 20°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.043
V max(V)	5745.052
V min(V)	5745.049
Max. Deviation Frequency	0.052
Max. Frequency Error (ppm)	9.05

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.521
V max(V)	5785.443
V min(V)	5785.468
Max. Deviation Frequency	0.521
Max. Frequency Error (ppm)	90.06

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.391
V max(V)	5825.376
V min(V)	5825.351
Max. Deviation Frequency	0.391
Max. Frequency Error (ppm)	67.124

Frequency Error at 30°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.042
V max(V)	5745.041
V min(V)	5745.033
Max. Deviation Frequency	0.067
Max. Frequency Error (ppm)	7.311

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.502
V max(V)	5785.407
V min(V)	5785.423
Max. Deviation Frequency	0.502
Max. Frequency Error (ppm)	86.776

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.383
V max(V)	5825.403
V min(V)	5825.35
Max. Deviation Frequency	0.403
Max. Frequency Error (ppm)	69.185

Frequency Error at 40°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.067
V max(V)	5745.063
V min(V)	5745.059
Max. Deviation Frequency	0.067
Max. Frequency Error (ppm)	11.662

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.466
V max(V)	5785.399
V min(V)	5785.419
Max. Deviation Frequency	0.466
Max. Frequency Error (ppm)	80.553

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.319
V max(V)	5825.384
V min(V)	5825.297
Max. Deviation Frequency	0.384
Max. Frequency Error (ppm)	65.923

Frequency Error at 50°C:

Test Conditions	Measured Frequency (MHz)
V nom(V)	5745.051
V max(V)	5745.047
V min(V)	5745.054
Max. Deviation Frequency	0.054
Max. Frequency Error (ppm)	9.399

Test Conditions	Measured Frequency (MHz)
V nom(V)	5785.476
V max(V)	5785.455
V min(V)	5785.437
Max. Deviation Frequency	0.476
Max. Frequency Error (ppm)	82.282

Test Conditions	Measured Frequency (MHz)
V nom(V)	5825.281
V max(V)	5825.305
V min(V)	5825.271
Max. Deviation Frequency	0.305
Max. Frequency Error (ppm)	52.361

Remark: V min(V) = 85% of the nominal supply voltage
 V max(V)=115% of the nominal supply voltage

10 Test Equipment List

List of Test Instruments

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2017-7-15
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2017-8-3
Horn Antenna	Rohde & Schwarz	HF907	102294	2017-7-15
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2017-7-15
3m Semi-anechoic chamber	TDK	9X6X6	----	2019-5-29
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2017-7-15
LISN	Rohde & Schwarz	ENV216	100326	2017-7-15
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

Emission bandwidth, Maximum Conducted Output Power, Peak Power Spectral Density, Unwanted Emissions, Duty Cycle and Frequency Stability Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2017-7-15

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.70dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.99dB; Vertical: 4.97dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-18000MHz	Horizontal: 4.96dB; Vertical: 4.95dB;
Uncertainty for Radiated Emission in 3m chamber 18000MHz-40000MHz	Horizontal: 5.14dB; Vertical: 5.12dB;
Uncertainty for Conducted RF test	Power level test involved: 2.06dB Frequency test involved: 1.16×10^{-7}

THE END