

TEST REPORT

Application No.: KSCR2508001756AT
FCC ID: 2ANHJGDR49
Applicant: Shanghai shengzhen commercial & trade Ltd company
Address of Applicant: Xinlong road No.1373 Room 606 Minhang District Shanghai China
Manufacturer: Shanghai shengzhen commercial & trade Ltd company
Address of Manufacturer: Xinlong road No.1373 Room 606 Minhang District Shanghai China
Equipment Under Test (EUT):
EUT Name: Remote Control
Model No.: GDR 49, GDR 49 BLK MINI
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart C 15.231
Date of Receipt: 2025-08-06
Date of Test: 2025-08-07 to 2025-09-02
Date of Issue: 2025-09-03

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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Unless 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 only.

Revision Record			
Version	Description	Date	Remark
00	Original	2025-09-03	/

Authorized for issue by:			
Tested By		<i>Tommie Tang</i>	
		<u>Tommie_Tang/Project Engineer</u>	
Approved By		<i>Terry Hou</i>	
		<u>Terry Hou /Reviewer</u>	

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.231	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.231(c)	Pass
Dwell Time (15.231(a1))		ANSI C63.10 (2020) Section 7.8.4	47 CFR Part 15, Subpart C 15.231(a1)	Pass
Radiated Emissions below 1GHz		ANSI C63.10 (2020) Section 6.4&6.5	47 CFR Part 15C Section 15.231(b) and 15.209	Pass
Field Strength of the Fundamental Signal (15.231(b))		ANSI C63.10 (2020) Section 6.5	47 CFR Part 15, Subpart C 15.231(b)	Pass
Radiated Emissions above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15C Section 15.231(b) and 15.209	Pass

Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are identical in electrical and electronic characters. Only the model GDR49 was tested since their differences were the model number and colour appearance.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3V by battery
Operation Frequency	310MHz, 315MHz, 390MHz
Channel Numbers:	3
Modulation Type:	OOK
Antenna Type:	PCB Antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

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

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

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.5 Test Facility

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

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna(9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna(30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
13	Software	Faratronic	EZ_EMV-3A1	/	NCR	NCR
14	Software	ESE	E3_V 6.111221a	/	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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.

EUT Antenna:

The antenna is PCB antenna and no consideration of replacement.

Antenna location: Refer to Internal photos

7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.231(c)

Test Method: ANSI C63.10 (2020) Section 6.9

Limit:

Frequency range(MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

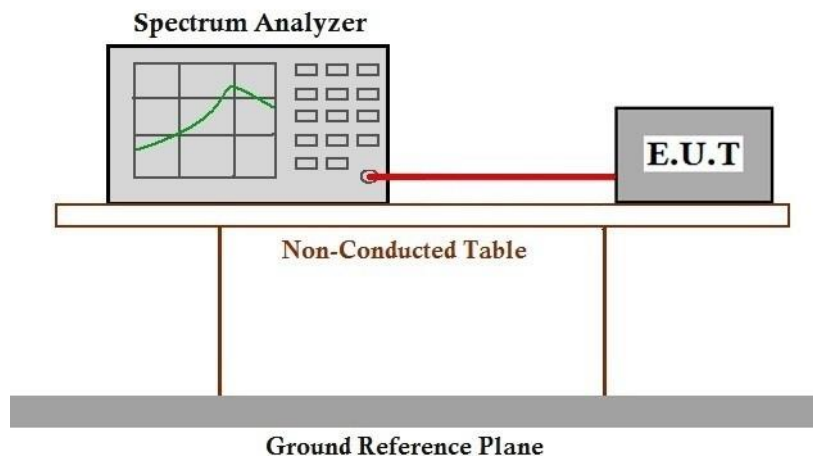
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.2 Dwell Time (15.231(a1))

Test Requirement 47 CFR Part 15, Subpart C 15.231(a1)

Test Method: ANSI C63.10 (2020) Section 7.8.4

Limit:

Device type	Limit
Manually operated transmitter	The switch automatically deactivate the transmitter within not more than 5 seconds of being released
Automatically activated transmitter	Cease transmission within 5 seconds after activation
Periodic transmissions to determine system integrity of transmitters used in security or safety applications	The total transmission time does not exceed 2 seconds per hour

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

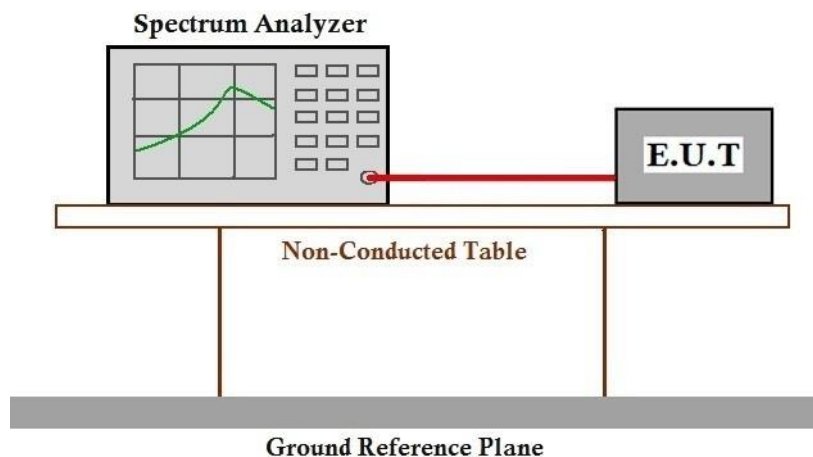
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 Radiated Emissions below 1GHz

Test Requirement 47 CFR Part 15C Section 15.231(b) and 15.209

Test Method: ANSI C63.10 (2020) Section 6.4&6.5

Measurement Distance: 3m

Limit:

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

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

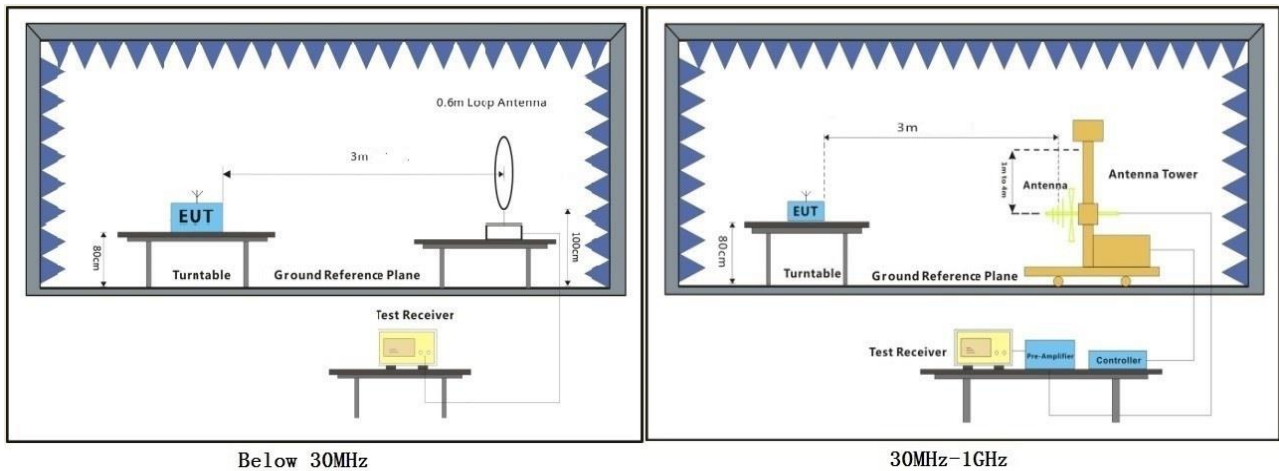
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Please Refer to Appendix for Details

7.4 Field Strength of the Fundamental Signal (15.231(b))

Test Requirement 47 CFR Part 15, Subpart C 15.231(b)

Test Method: ANSI C63.10 (2020) Section 6.5

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750	125 to 375
174-260	3750	375
260-470	3750 to 12500	375 to 1250
Above 470	12500	1250

Remark: the emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

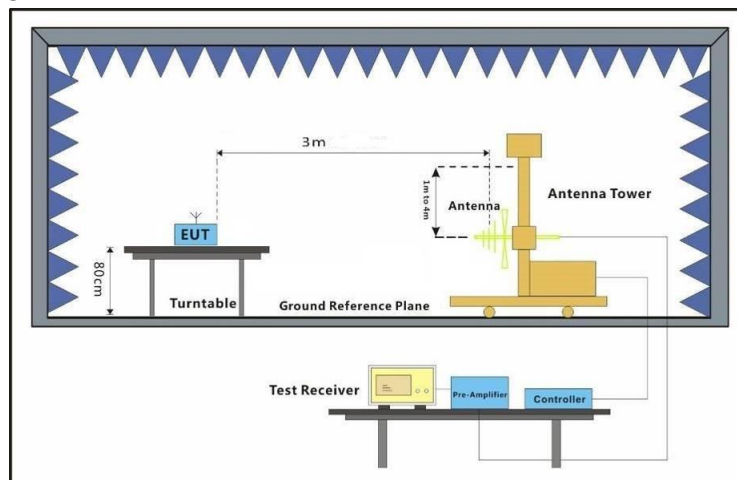
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_ Keep the EUT in transmitting mode.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

Remark: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Please Refer to Appendix for Details

7.5 Radiated Emissions above 1GHz

Test Requirement 47 CFR Part 15C Section 15.231(b) and 15.209

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Limit:

For Restricted bands

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

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

For Other bands

Fundamental Frequency MHz	Field Strength of Fundamental (dBμV/m @ 3 m)	Field Strength of Hasrmonics and Spurious Emissions (dBμV/m @ 3 m)
40.66 to 40.70	67.04	47.04
70 to 130	61.94	41.94
130 to 174	**61.94 to 71.48	41.94 to 51.48
174 to 260	71.48	51.48
260 to 470	**71.48 to 81.94	51.48 to 61.94
Above 470	81.94	61.94
Detector:	Peak for pre-scan	
	QP for 30MHz to1000 MHz:120 kHz resolution bandwidth	
	Peak for Above 1 GHz: 1 MHz resolution bandwidth	

** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F) - 6136.3636;

for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The fundamental frequency of the EUT is 310.00 MHz, 315.00 MHz and 390.00MHz.

The limit for average or QP field strength dBuv/m for the fundamental emission= 75.32

$\text{dB}\mu\text{V}/\text{m}$ (310MHz), 75.62 $\text{dB}\mu\text{V}/\text{m}$ (315MHz) and 79.24 $\text{dB}\mu\text{V}/\text{m}$ (390MHz).

No fundamental is allowed in the restricted bands.

The limit for average field strength $\text{dB}\mu\text{V}/\text{m}$ for the spurious emission=55.32 $\text{dB}\mu\text{V}/\text{m}$ (310MHz), 55.62 $\text{dB}\mu\text{V}/\text{m}$ (315MHz) and 59.24 $\text{dB}\mu\text{V}/\text{m}$ (390MHz). Spurious in the restricted bands must be less than 55.32 $\text{dB}\mu\text{V}/\text{m}$ (310MHz), 55.62 $\text{dB}\mu\text{V}/\text{m}$ (315MHz) and 59.24 $\text{dB}\mu\text{V}/\text{m}$ (390MHz) or 15.209, whichever limit permits a higher field strength.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

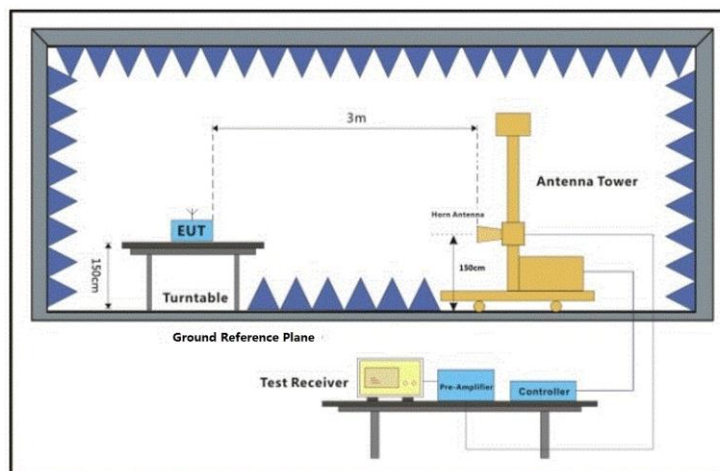
Humidity: 51.2 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2508001756AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2508001756AT

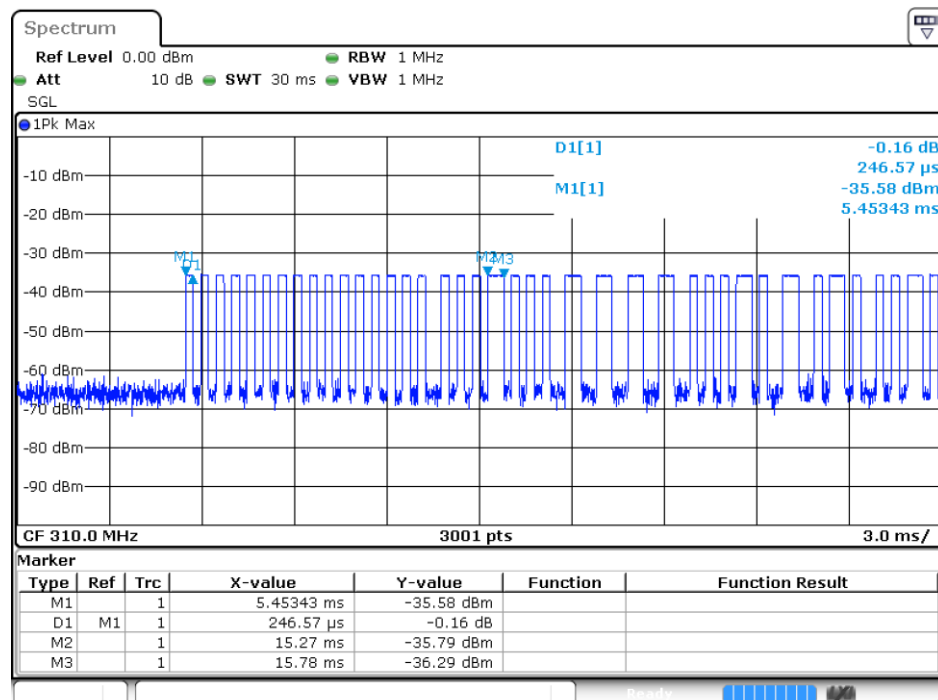
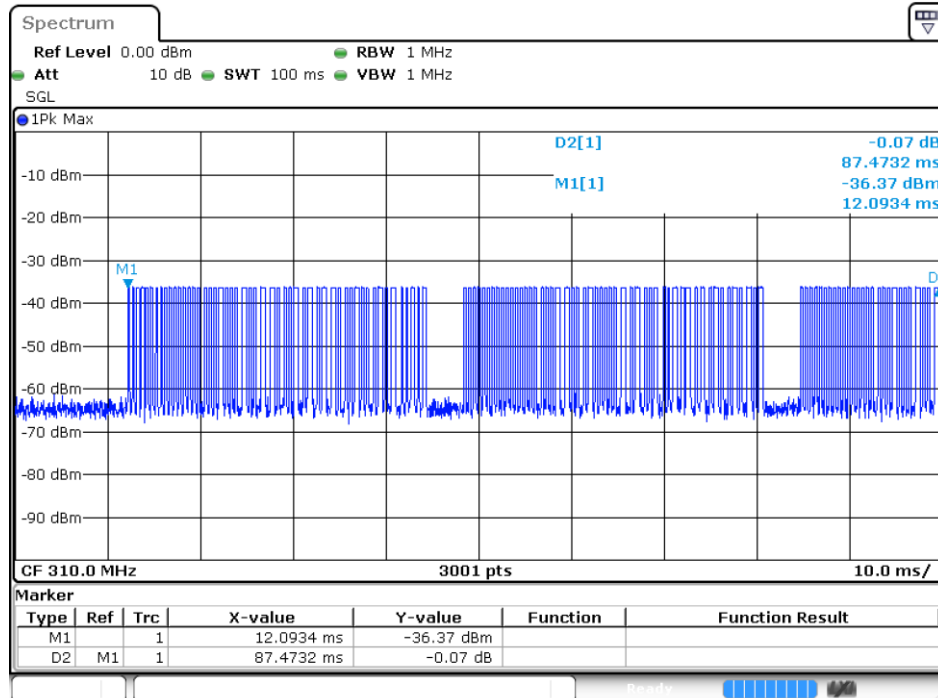
10 Appendix

10.1 Spurious Emissions

10.1.1 Field Strength of the Fundamental Signal

Frequency (MHz)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Detector	Polarization
310	61.86	95.32	-33.46	Peak	Vertical
	80.54	95.32	-14.78	Peak	Horizontal
	54.06	75.32	-21.26	Average	Vertical
	72.74	75.32	-2.58	Average	Horizontal
315	65.67	95.62	-29.95	Peak	Vertical
	81.89	95.62	-13.73	Peak	Horizontal
	54.52	75.62	-21.1	Average	Vertical
	70.74	75.62	-4.88	Average	Horizontal
390	75.64	99.24	-23.6	Peak	Vertical
	86.21	99.24	-13.03	Peak	Horizontal
	66.99	79.24	-12.25	Average	Vertical
	77.56	79.24	-1.68	Average	Horizontal

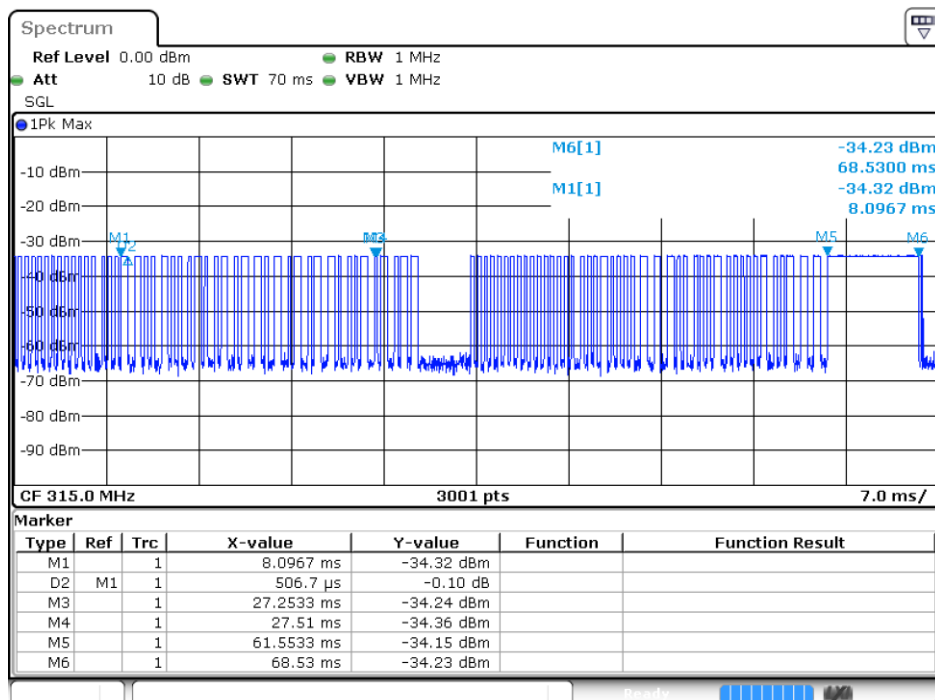
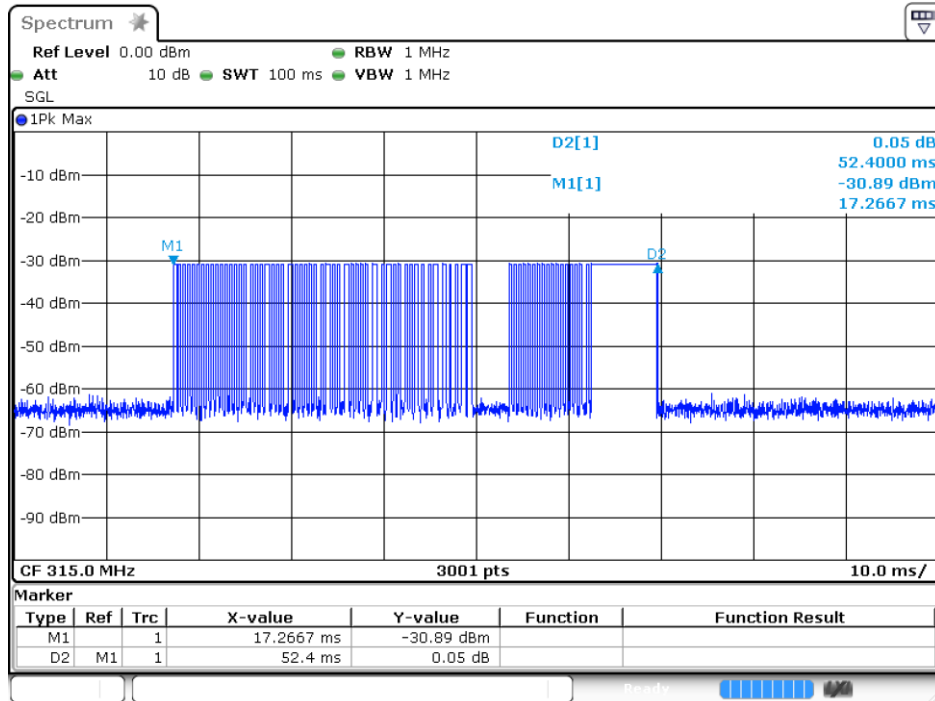
310MHz



Remark:

1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
2. Average level = Peak level - Duty Cycle Factor
3. Duty Cycle Factor = $20 \cdot \log(\text{Duty Cycle}) = -7.80\text{dB}$

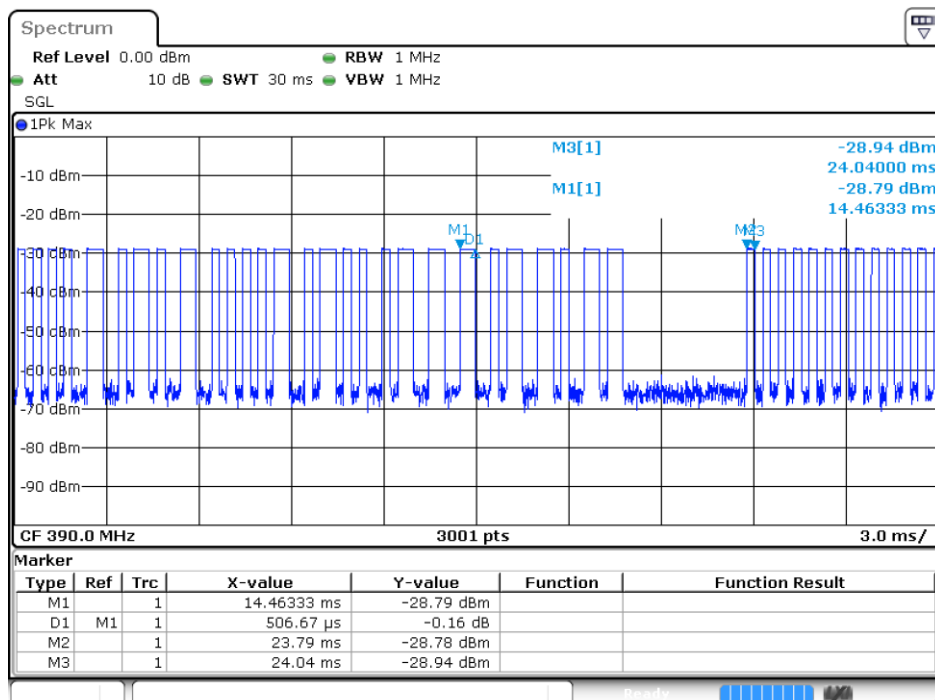
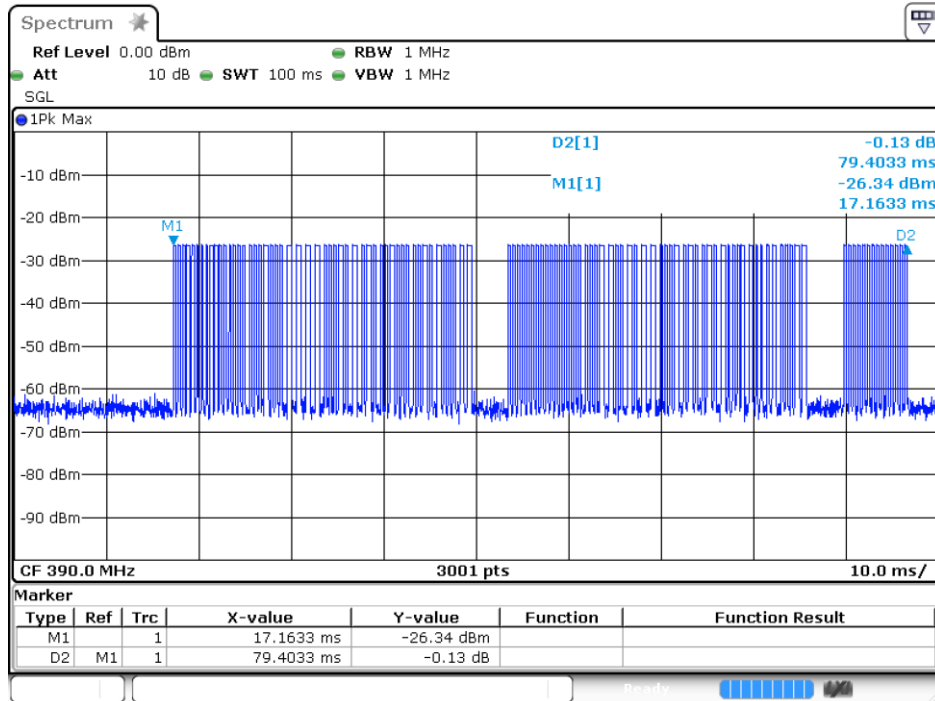
315MHz



Remark:

- If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
- Average level = Peak level - Duty Cycle Factor
- Duty Cycle Factor = $20 \cdot \log(\text{Duty Cycle}) = -11.15\text{dB}$

390MHz



Remark:

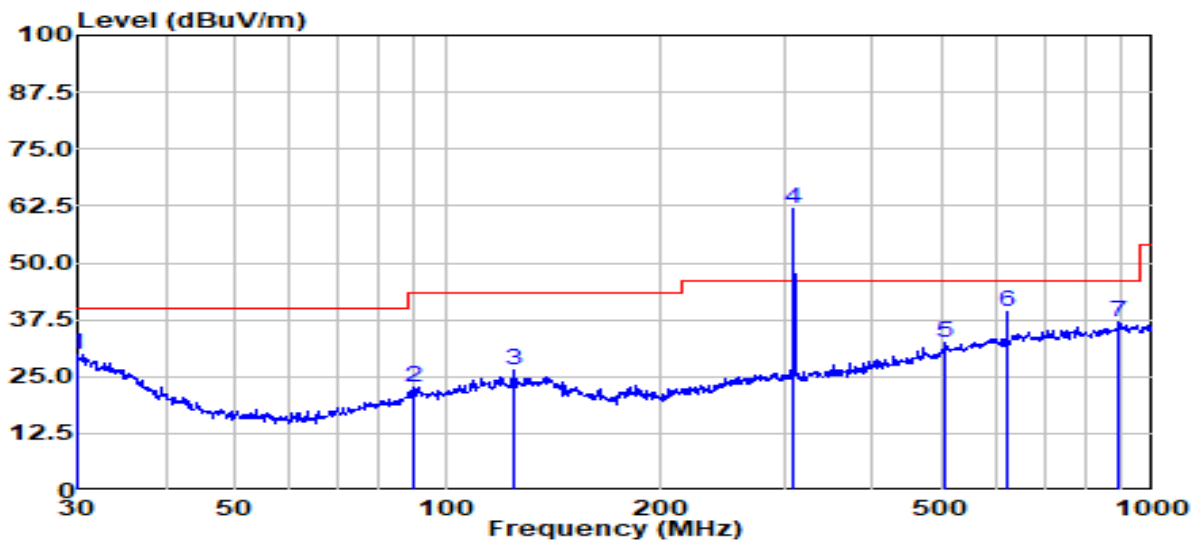
- If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
- Average level = Peak level - Duty Cycle Factor
- Duty Cycle Factor = $20 \cdot \log(\text{Duty Cycle}) = -8.65\text{dB}$

10.2 Spurious Emissions

Below 1GHz:

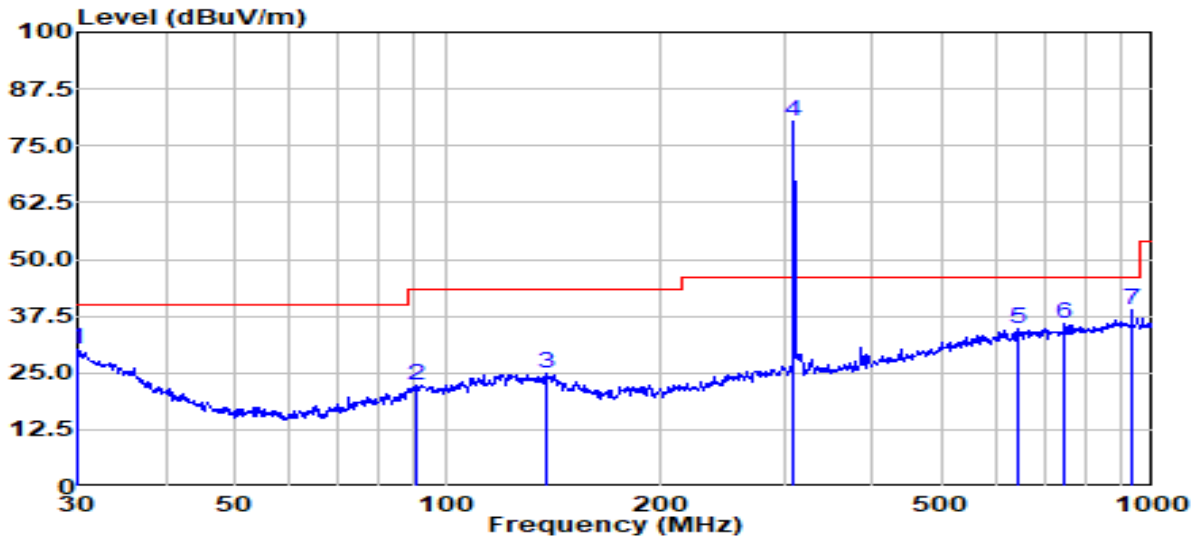
310MHz:

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.11	4.67	25.04	29.71	40.00	-10.29	QP
2	89.59	5.13	17.52	22.65	43.50	-20.85	QP
3	124.57	6.27	20.31	26.58	43.50	-16.92	QP
4	310.00	40.05	21.81	61.86	95.32	-33.46	Peak
5	508.26	5.46	26.96	32.42	46.00	-13.58	QP
6	620.71	10.26	28.88	39.14	75.32	-36.18	Peak
7	890.73	5.71	31.35	37.06	46.00	-8.94	QP

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	5.03	25.12	30.15	40.00	-9.85	QP
2	90.54	4.56	17.80	22.36	43.50	-21.14	QP
3	138.87	4.41	20.41	24.82	43.50	-18.68	QP
4	310.00	58.73	21.81	80.54	95.32	-14.78	Peak
5	640.61	5.57	29.09	34.66	46.00	-11.34	QP
6	750.11	5.87	30.09	35.96	46.00	-10.04	QP
7	932.27	7.55	31.27	38.82	75.32	-36.50	Peak

Field strength of fundamental and spurious emissions

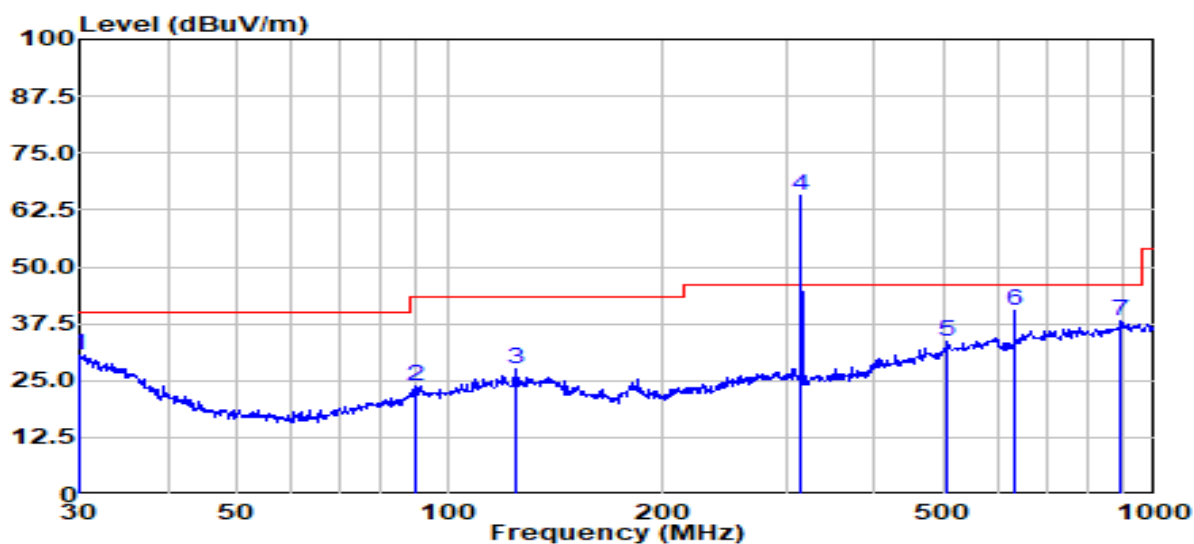
Peak value:				
Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
310.00	61.86	95.32	-33.46	Vertical
620.71	39.14	75.32	-36.18	Vertical
310.00	80.54	95.32	-14.78	Horizontal
932.27	38.82	75.32	-36.50	Horizontal

Average value:						
Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
310.00	-7.80	61.86	54.06	75.32	-21.26	Vertical
620.71	-7.80	39.14	31.34	55.32	-23.98	Vertical
310.00	-7.80	80.54	72.74	75.32	-2.58	Horizontal
932.27	-7.80	38.82	31.02	55.32	-24.30	Horizontal

Note: Average level = Peak level + Duty Cycle Factor

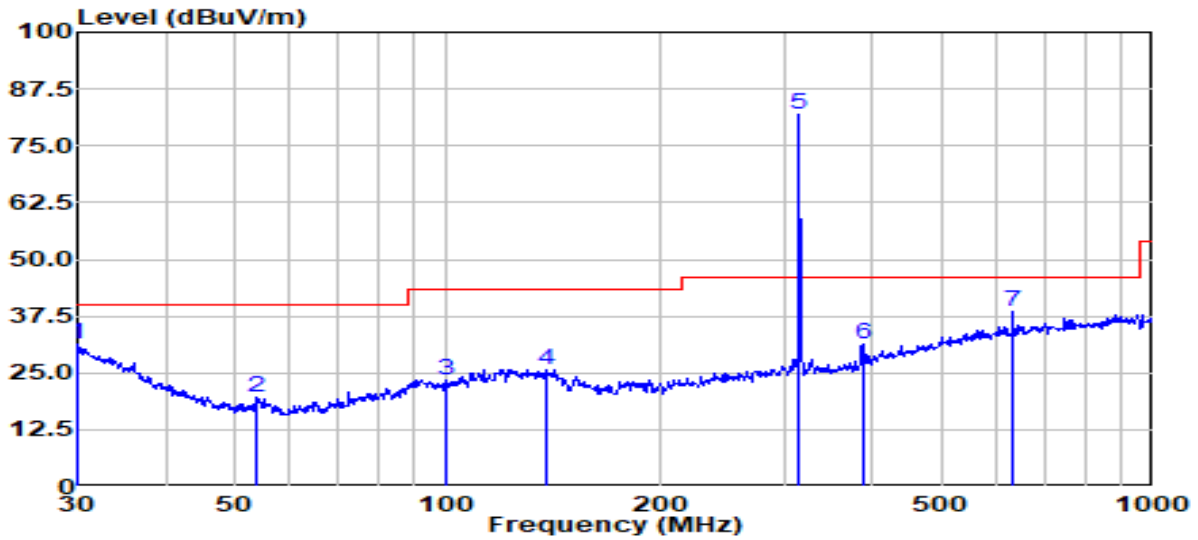
315MHz:

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.11	5.67	25.04	30.71	40.00	-9.29	QP
2	89.59	6.13	17.52	23.65	43.50	-19.85	QP
3	124.57	7.27	20.31	27.58	43.50	-15.92	QP
4	315.48	44.11	21.57	65.67	95.62	-29.95	Peak
5	508.26	6.46	26.96	33.42	46.00	-12.58	QP
6	631.69	11.29	28.93	40.22	75.62	-35.40	Peak
7	890.73	6.71	31.35	38.06	46.00	-7.94	QP

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	6.03	25.12	31.15	40.00	-8.85	QP
2	53.69	7.07	12.42	19.49	40.00	-20.51	QP
3	99.88	4.87	18.57	23.44	43.50	-20.06	QP
4	138.87	5.41	20.41	25.82	43.50	-17.68	QP
5	315.48	60.33	21.57	81.89	95.62	-13.73	Peak
6	387.99	8.38	22.93	31.31	46.00	-14.69	QP
7	631.69	9.53	28.93	38.46	75.62	-37.16	Peak

Field strength of fundamental and spurious emissions

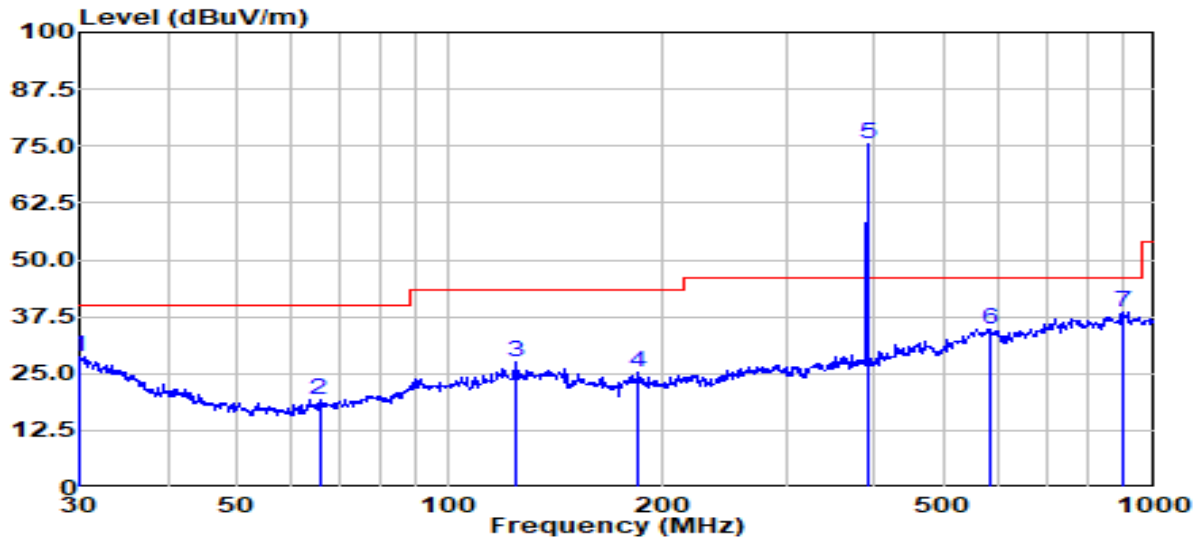
Peak value:				
Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
315.48	65.67	95.62	-29.95	Vertical
631.69	40.22	75.62	-35.40	Vertical
138.87	81.89	95.62	-13.73	Horizontal
631.69	38.46	75.62	-37.16	Horizontal

Average value:						
Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
315.48	-11.15	65.67	54.52	75.62	-21.1	Vertical
631.69	-11.15	40.22	29.07	55.62	-26.55	Vertical
138.87	-11.15	81.89	70.74	75.62	-4.88	Horizontal
631.69	-11.15	38.46	27.31	55.62	-28.31	Horizontal

Note: Average level = Peak level + Duty Cycle Factor

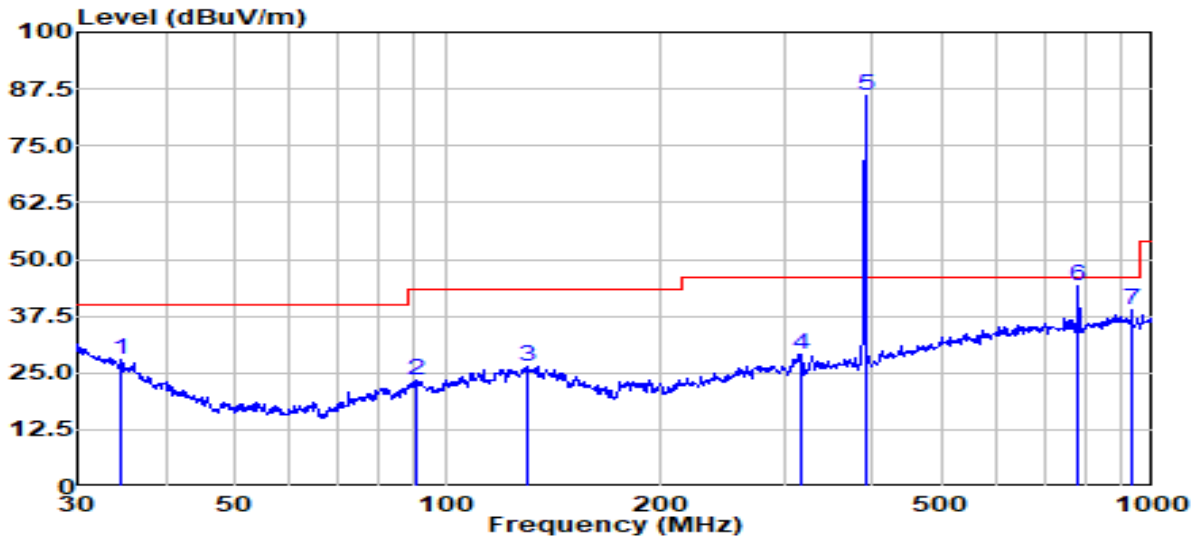
390MHz:

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.11	3.67	25.04	28.71	40.00	-11.29	QP
2	65.57	7.12	12.27	19.39	40.00	-20.61	QP
3	124.57	7.27	20.31	27.58	43.50	-15.92	QP
4	185.79	6.88	18.23	25.11	43.50	-18.39	QP
5	390.72	52.53	23.11	75.64	99.24	-24.00	Peak
6	582.74	6.20	28.38	34.58	46.00	-11.42	QP
7	903.31	7.21	31.36	38.57	46.00	-7.43	QP

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.52	6.05	22.04	28.09	40.00	-11.91	QP
2	90.54	5.56	17.80	23.36	43.50	-20.14	QP
3	130.38	6.11	20.37	26.48	43.50	-17.02	QP
4	317.70	7.48	21.60	29.08	46.00	-16.92	QP
5	390.72	63.10	23.11	86.21	99.24	-13.03	Peak
6	782.35	13.93	30.36	44.29	79.24	-34.95	Peak
7	932.27	7.55	31.27	38.82	46.00	-7.18	QP

Field strength of fundamental and spurious emissions

Peak value:				
Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
390.72	75.64	99.24	-24.00	Vertical
390.72	86.21	99.24	-13.03	Horizontal
782.35	44.29	79.24	-34.95	Horizontal

Average value:						
Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
390.72	-8.65	75.64	-66.99	79.24	-12.25	Vertical
390.72	-8.65	86.21	-77.56	79.24	-1.68	Horizontal
782.35	-8.65	44.29	-35.64	59.24	-23.60	Horizontal

Note: Average level = Peak level + Duty Cycle Factor

Above 1GHz:

310MHz

Peak value:							
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1	2170.00	60.74	-25.73	35.01	75.32	-40.31	Vertical
2	2790.00	58.78	-23.45	35.33	75.32	-39.99	Vertical
3	3410.00	61.88	-22.31	39.57	75.32	-35.75	Vertical
4	1550.00	64.32	-27.76	36.56	75.32	-38.76	Horizontal
5	1860.00	64.71	-26.84	37.87	75.32	-37.45	Horizontal
6	2170.00	71.70	-25.73	45.97	75.32	-29.35	Horizontal
Average value:							
Mark	Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1	2170.00	-7.80	35.01	27.21	55.32	-28.11	Vertical
2	2790.00	-7.80	35.33	27.53	55.32	-27.79	Vertical
3	3410.00	-7.80	39.57	31.77	55.32	-23.55	Vertical
4	1550.00	-7.80	36.56	28.76	55.32	-26.56	Horizontal
5	1860.00	-7.80	37.87	30.07	55.32	-25.25	Horizontal
6	2170.00	-7.80	45.97	38.17	55.32	-17.15	Horizontal

Note: Average level = Peak level + Duty Cycle Factor

315MHz:

Peak value:								
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	2170.00	60.74	-25.73	35.01	75.62	-40.61	peak	Vertical
2	2205.00	59.62	-25.59	34.03	75.62	-41.59	peak	Vertical
3	2355.50	58.78	-24.97	33.81	75.62	-41.81	peak	Vertical
4	1575.00	68.05	-27.69	40.36	75.62	-35.26	peak	Horizontal
5	1890.00	63.79	-26.76	37.03	75.62	-38.59	peak	Horizontal
6	2205.00	67.73	-25.59	42.14	75.62	-33.48	peak	Horizontal
Average value:								
Mark	Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)		polarization
1	2170.00	-11.15	35.01	23.86	55.62	-31.76		Vertical
2	2205.00	-11.15	34.03	22.88	55.62	-32.74		Vertical

3	2355.50	/	/	28.30	55.62	-27.32	Vertical
4	1575.00	-11.15	40.36	29.21	55.62	-26.41	Horizontal
5	1890.00	-11.15	37.03	25.88	55.62	-29.74	Horizontal
6	2205.00	-11.15	42.14	30.99	55.62	-24.63	Horizontal

Note: Average level = Peak level + Duty Cycle Factor

390MHz:

Peak value:							
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1	1170.00	68.69	-28.32	40.37	79.24	-38.87	Vertical
2	2730.00	60.29	-23.64	36.65	79.24	-42.59	Vertical
3	3731.25	57.96	-21.56	36.40	79.24	-42.84	Vertical
4	1170.00	68.61	-28.32	40.29	79.24	-38.95	Horizontal
5	1950.00	65.19	-26.57	38.62	79.24	-40.62	Horizontal
6	2340.00	64.26	-25.03	39.23	79.24	-40.01	Horizontal
Average value:							
Mark	Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1	1170.00	-8.65	38.23	29.58	59.24	-29.66	Vertical
2	2730.00	-8.65	35.75	27.10	59.24	-32.14	Vertical
3	3731.25	/	/	32.18	59.24	-27.06	Vertical
4	1170.00	-8.65	40.29	31.64	59.24	-27.60	Horizontal
5	1950.00	-8.65	38.62	29.97	59.24	-29.27	Horizontal
6	2340.00	-8.65	39.23	30.58	59.24	-28.66	Horizontal

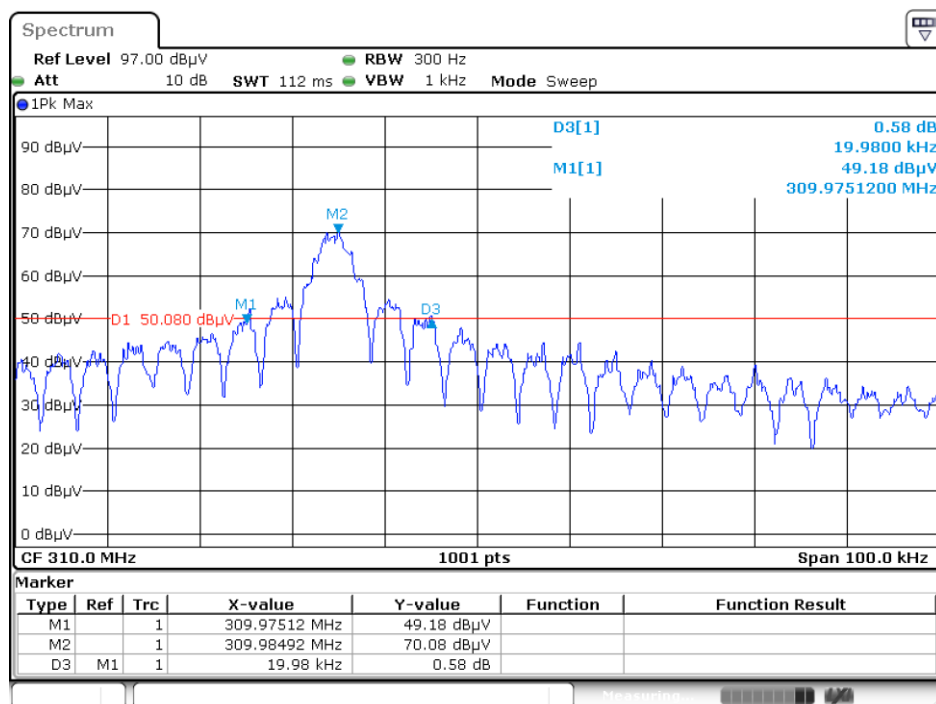
Note: Average level = Peak level + Duty Cycle Factor

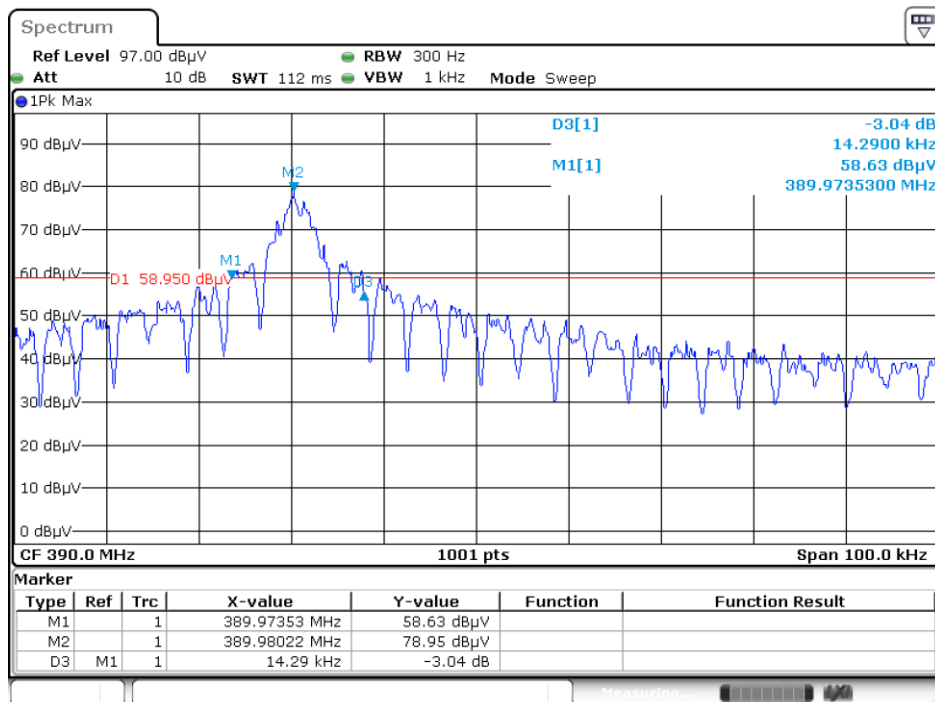
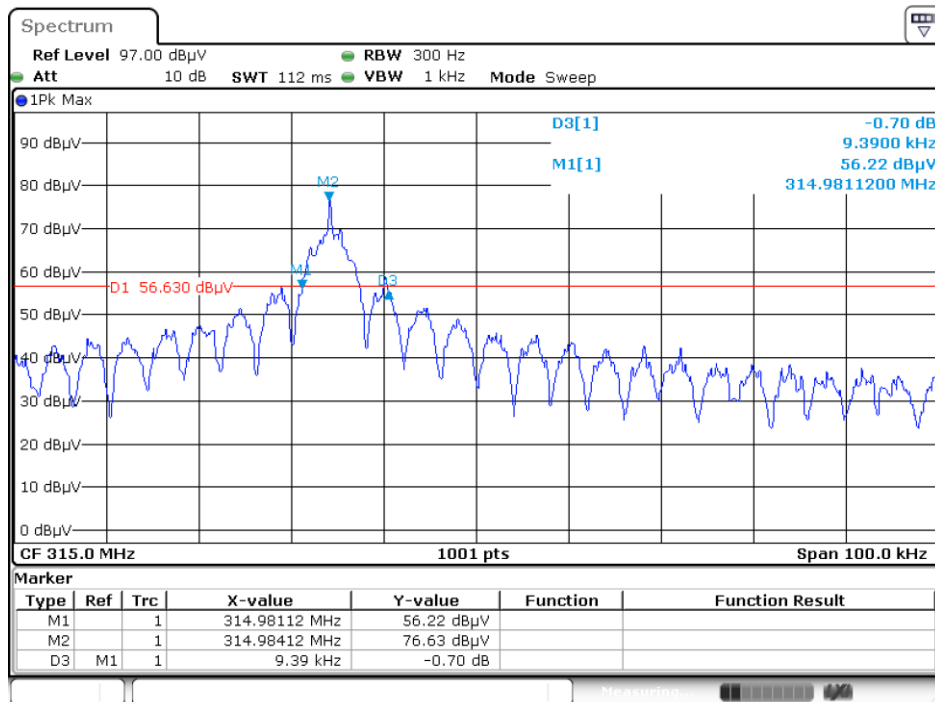
10.3 20dB Bandwidth

Measurement Data:

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
310	19.98	775.0	Pass
315	9.39	787.5	Pass
390	14.29	975.0	Pass

Test plot as follows:

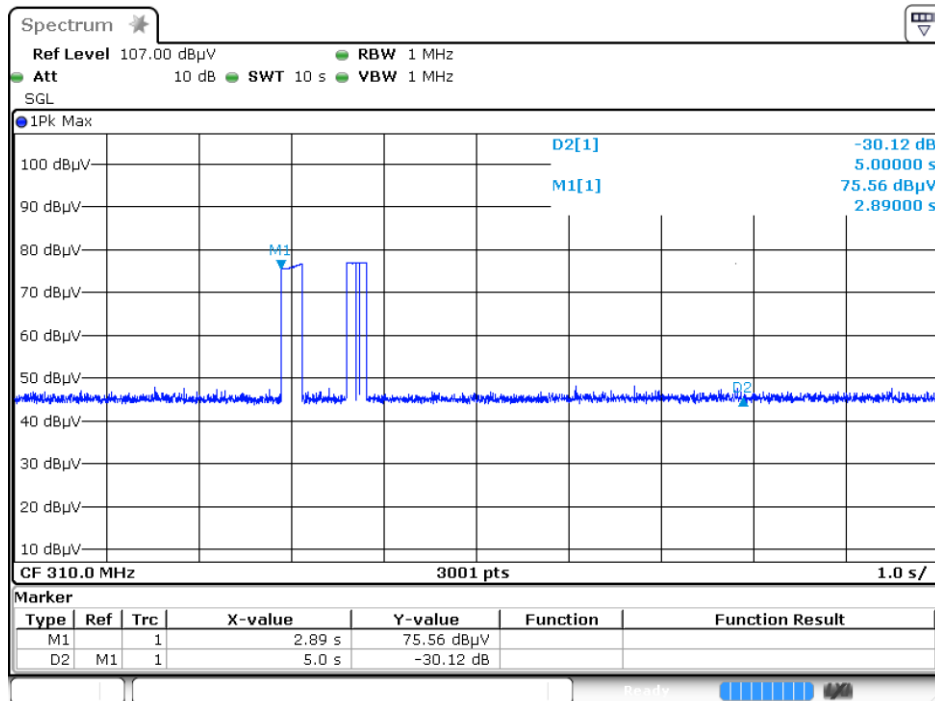




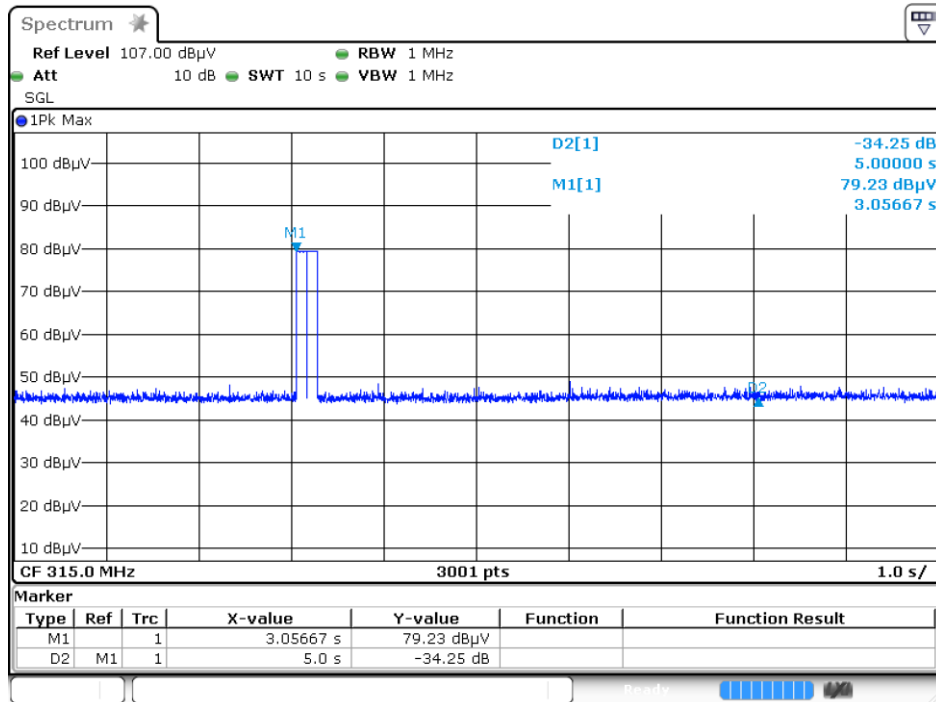
10.4 Dwell Time

Measurement Data:

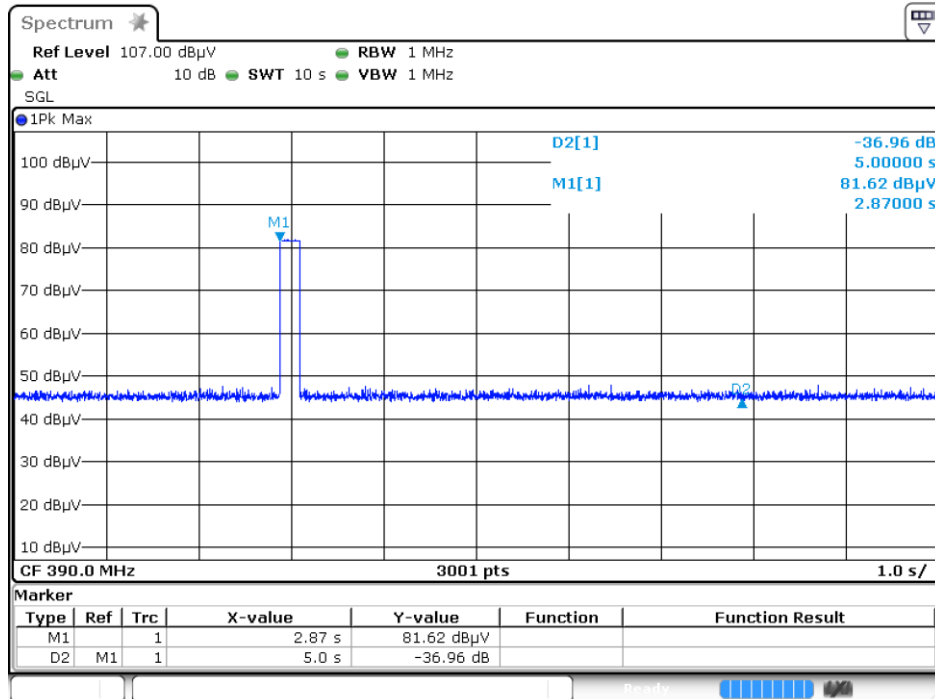
Frequency (MHz)	Test item	Limit (s)	Results
310	Transmission Duration	≤5s	Pass



Frequency (MHz)	Test item	Limit (s)	Results
315	Transmission Duration	≤5s	Pass



Frequency (MHz)	Test item	Limit (s)	Results
390	Transmission Duration	≤5s	Pass



- End of the Report -