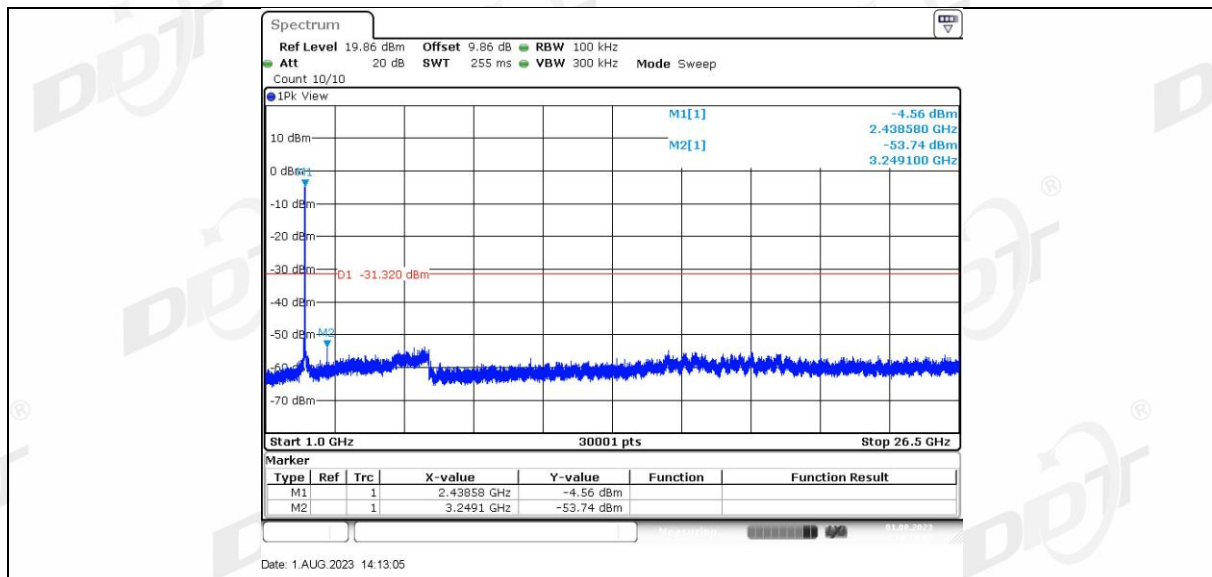
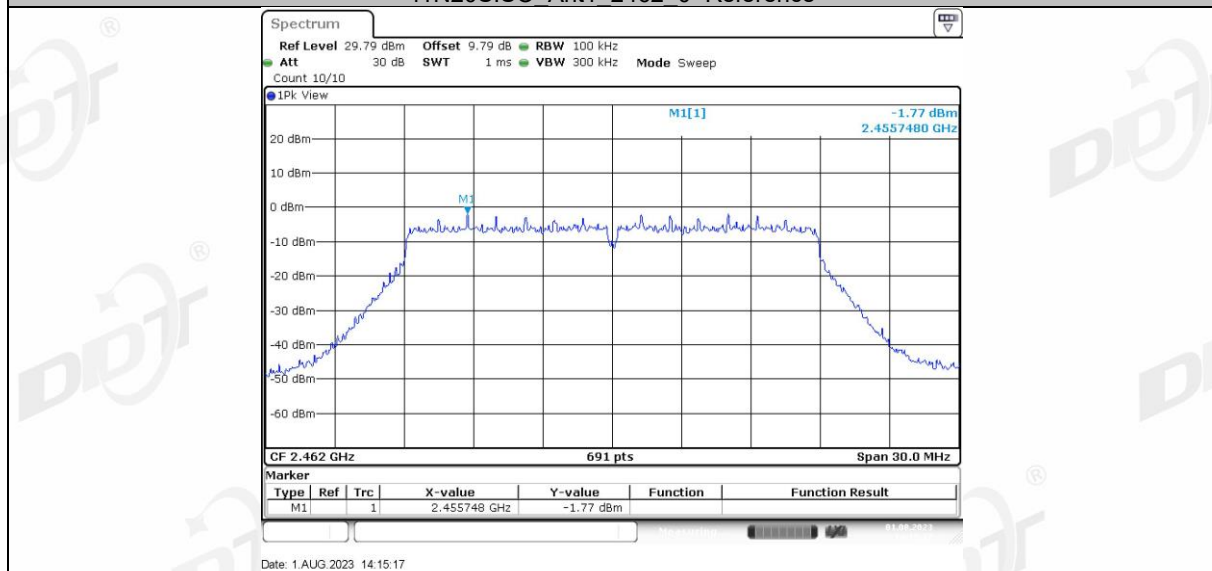
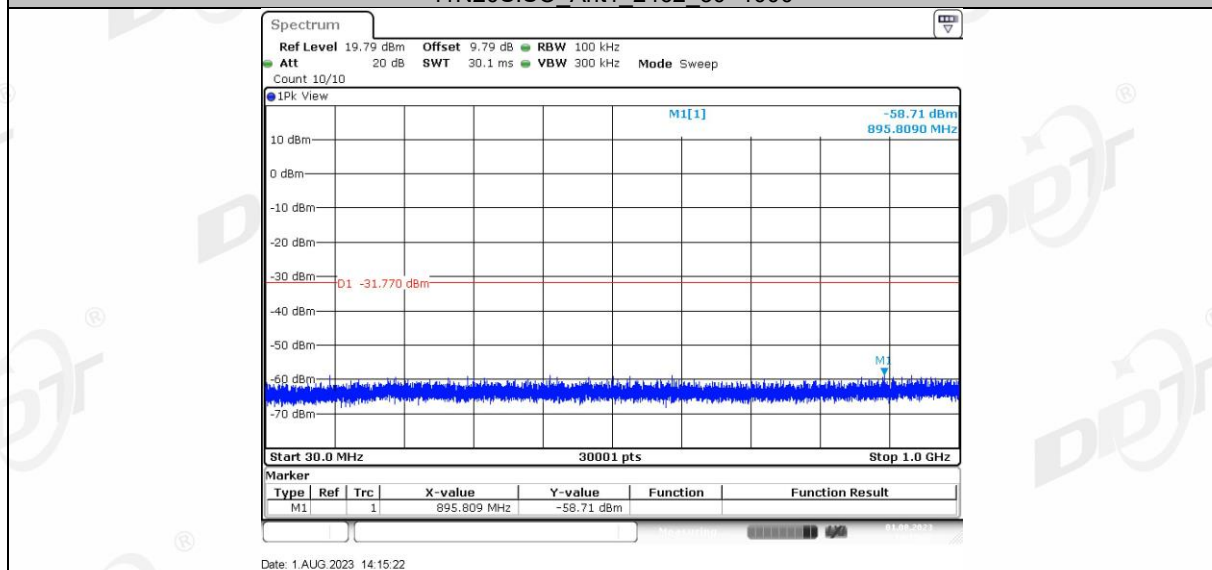




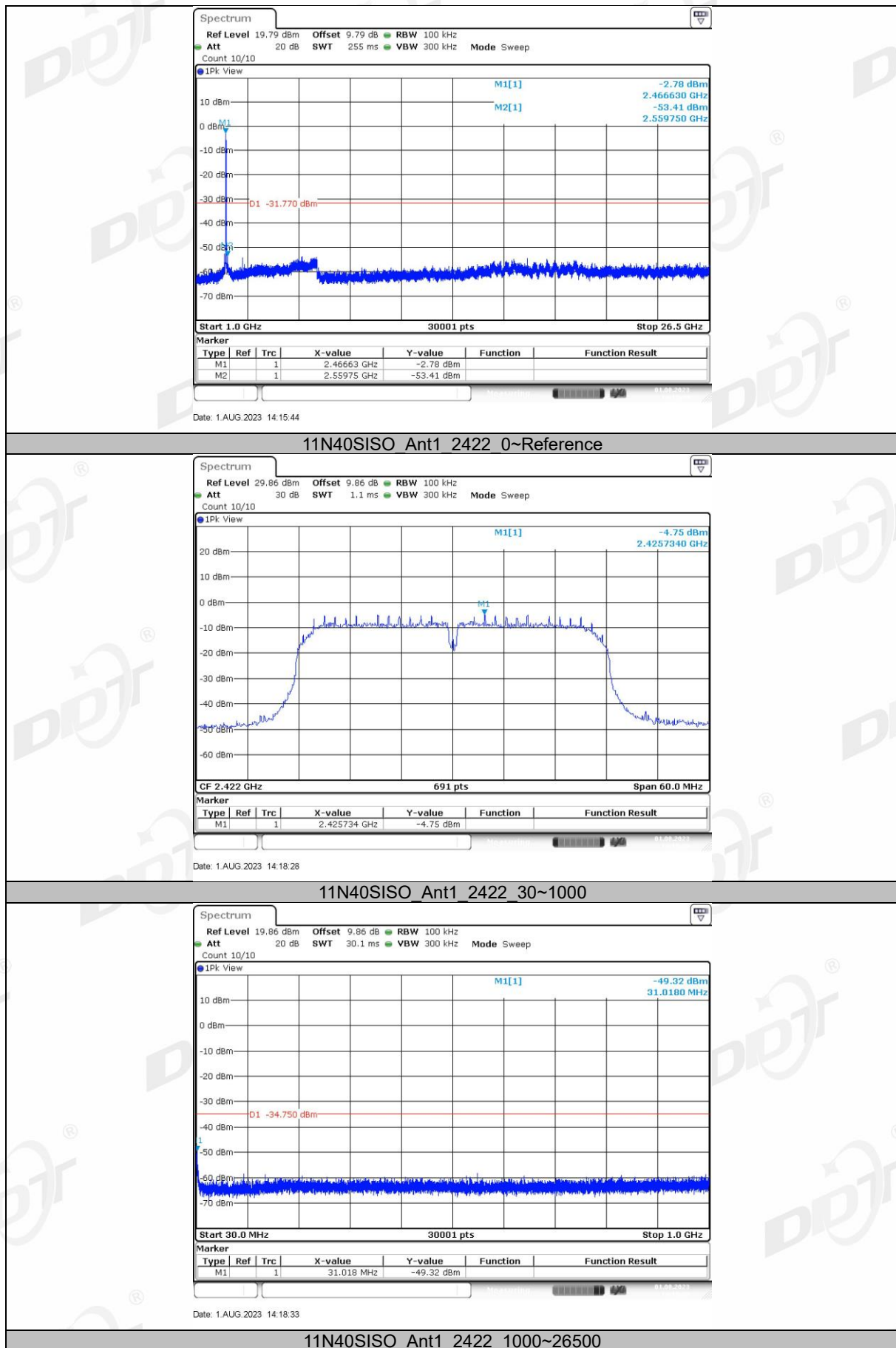
11N20SISO Ant1 2462 0~Reference

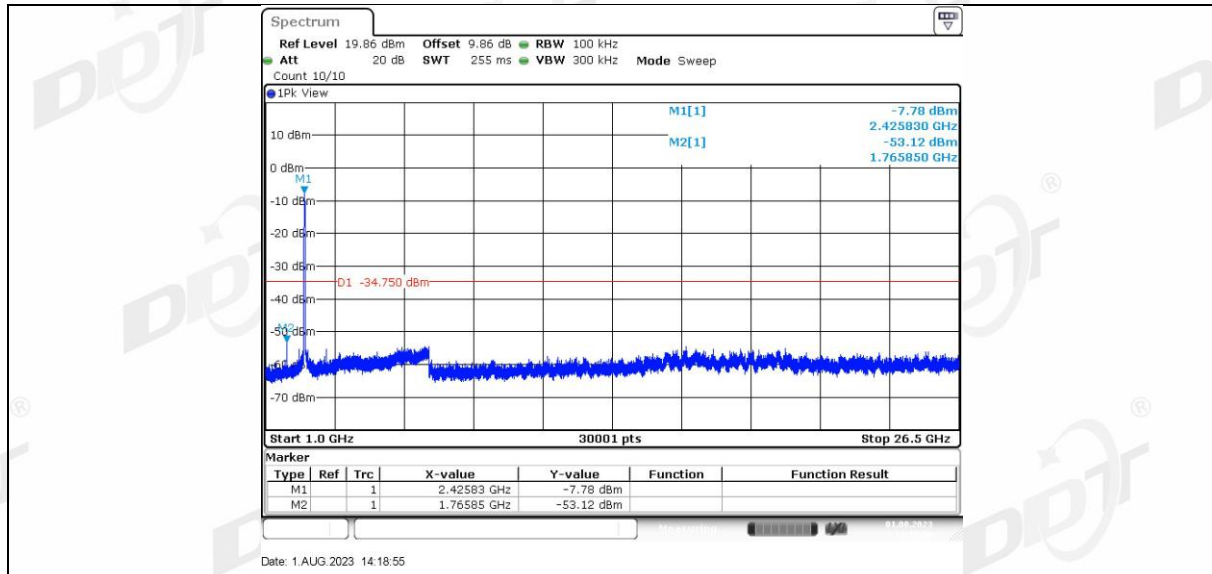


11N20SISO Ant1 2462 30~1000

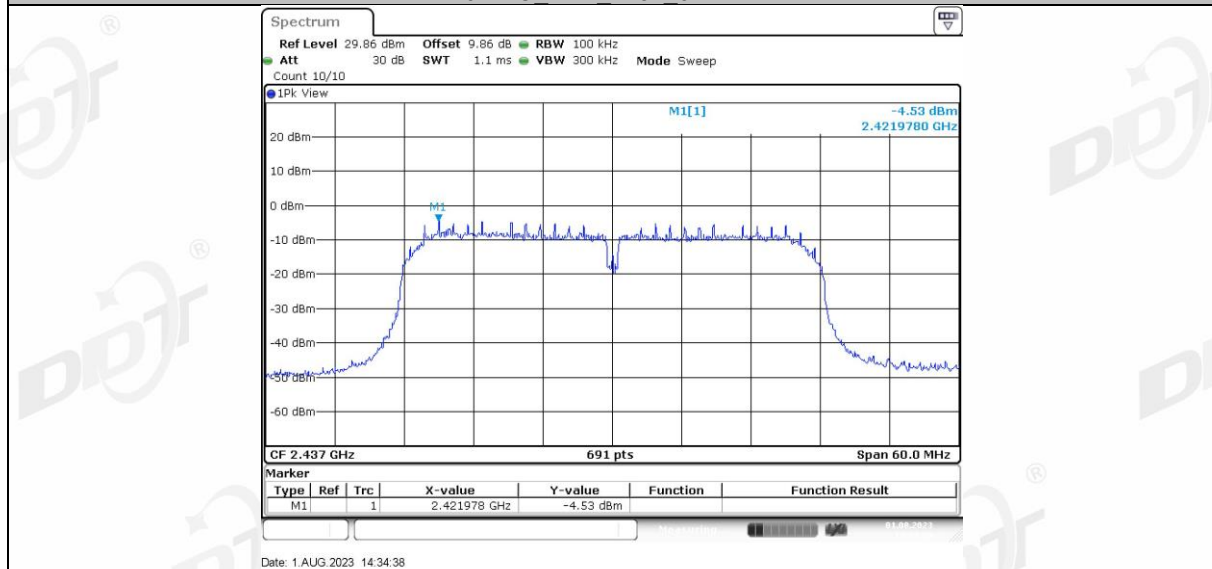


11N20SISO Ant1 2462 1000~26500

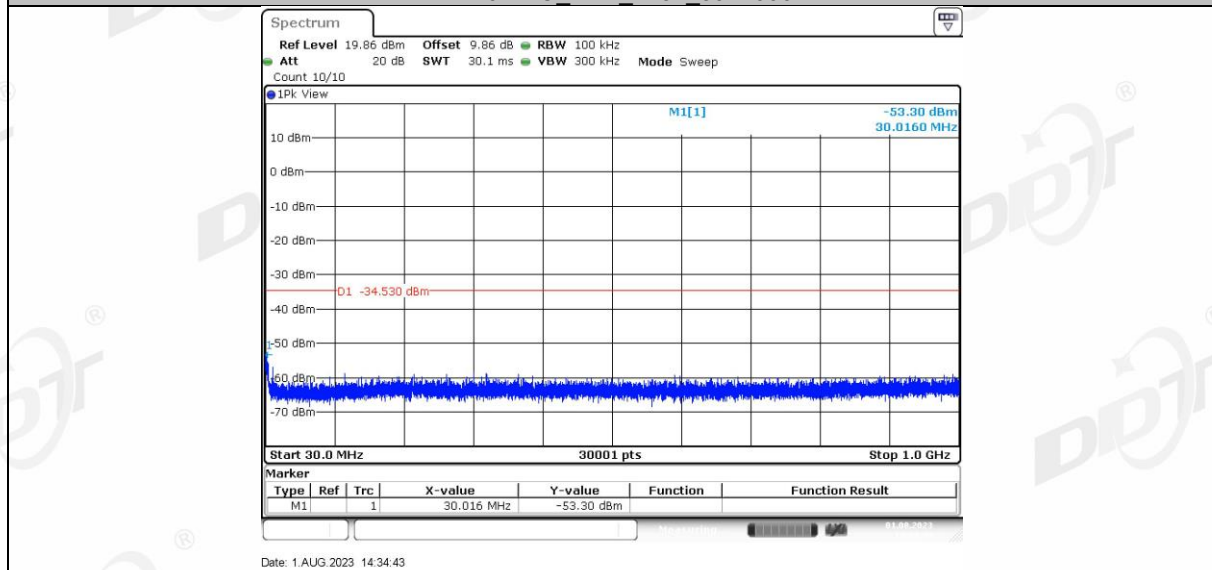




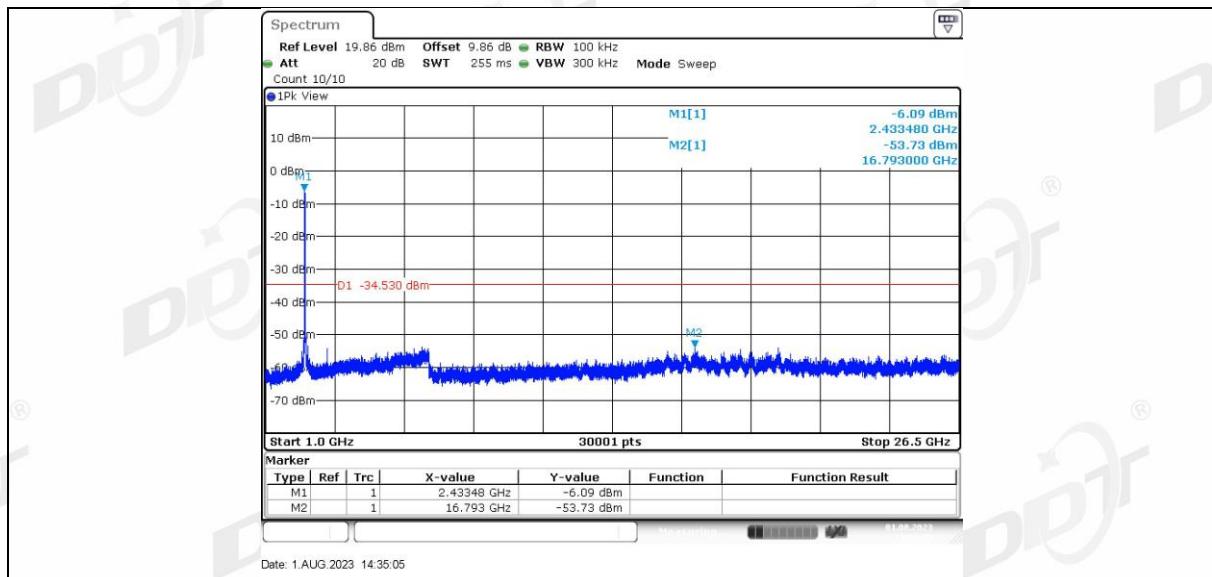
11N40SISO Ant1 2437 0~Reference



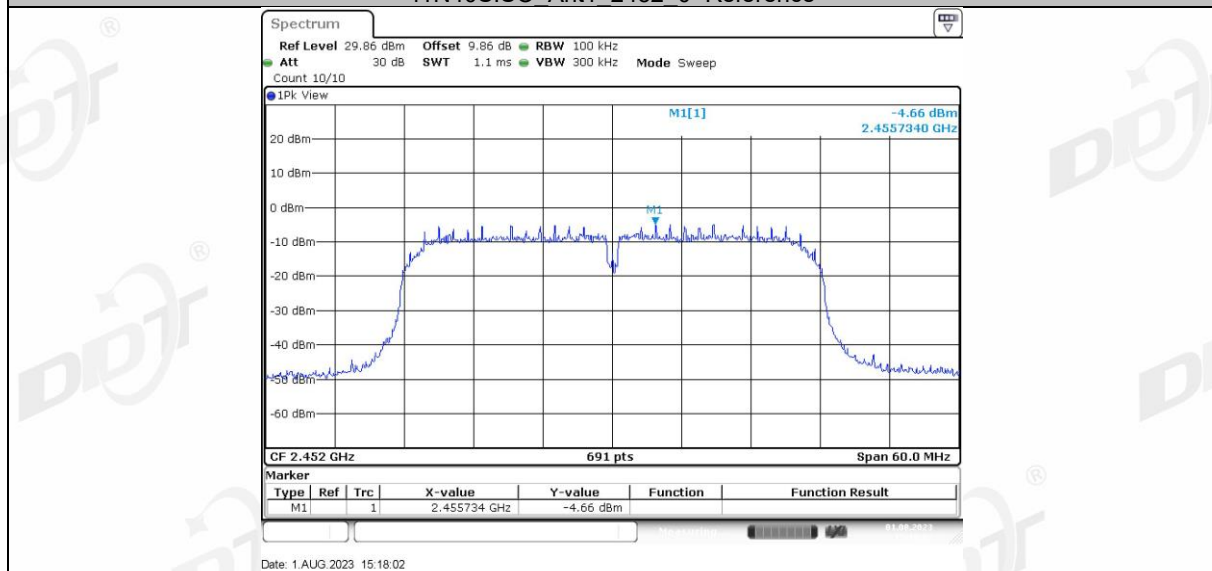
11N40SISO Ant1 2437 30~1000



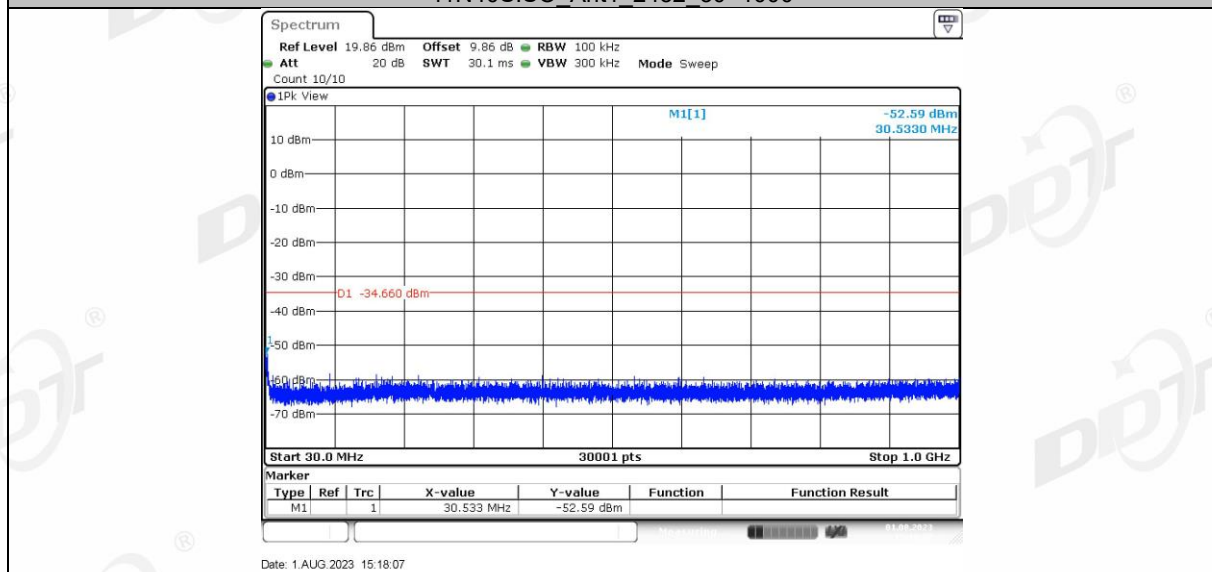
11N40SISO Ant1 2437 1000~26500



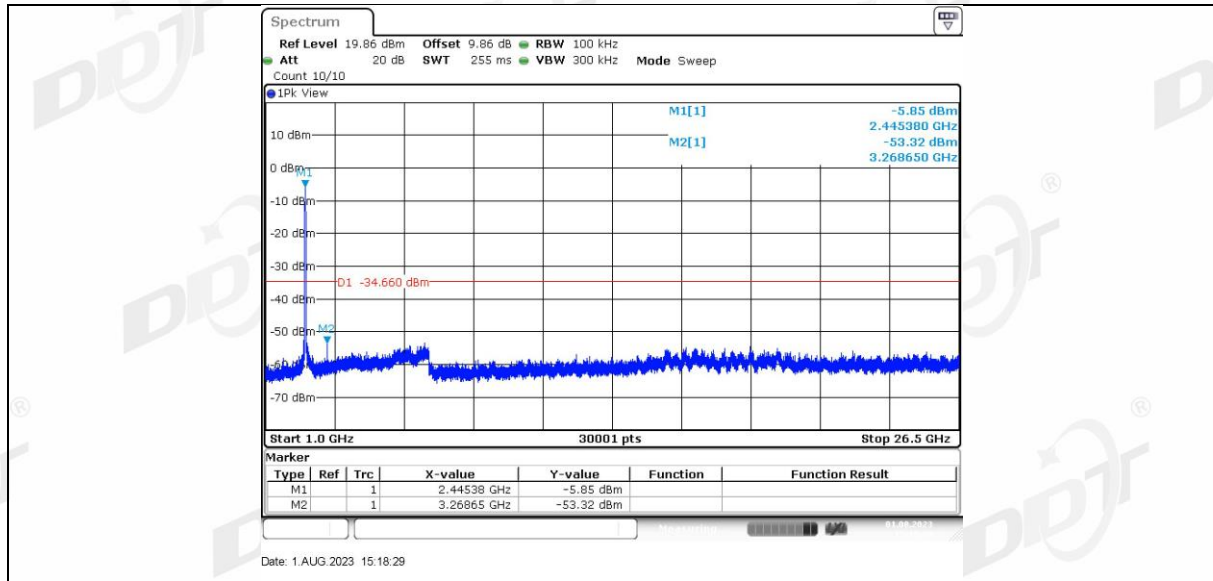
11N40SISO Ant1 2452 0~Reference



11N40SISO Ant1 2452 30~1000

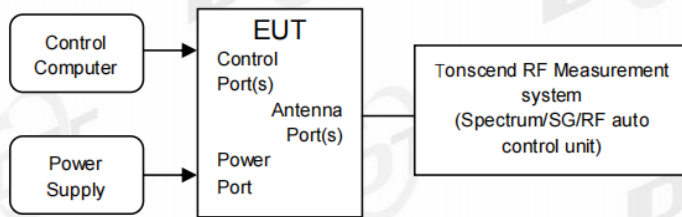


11N40SISO Ant1 2452 1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

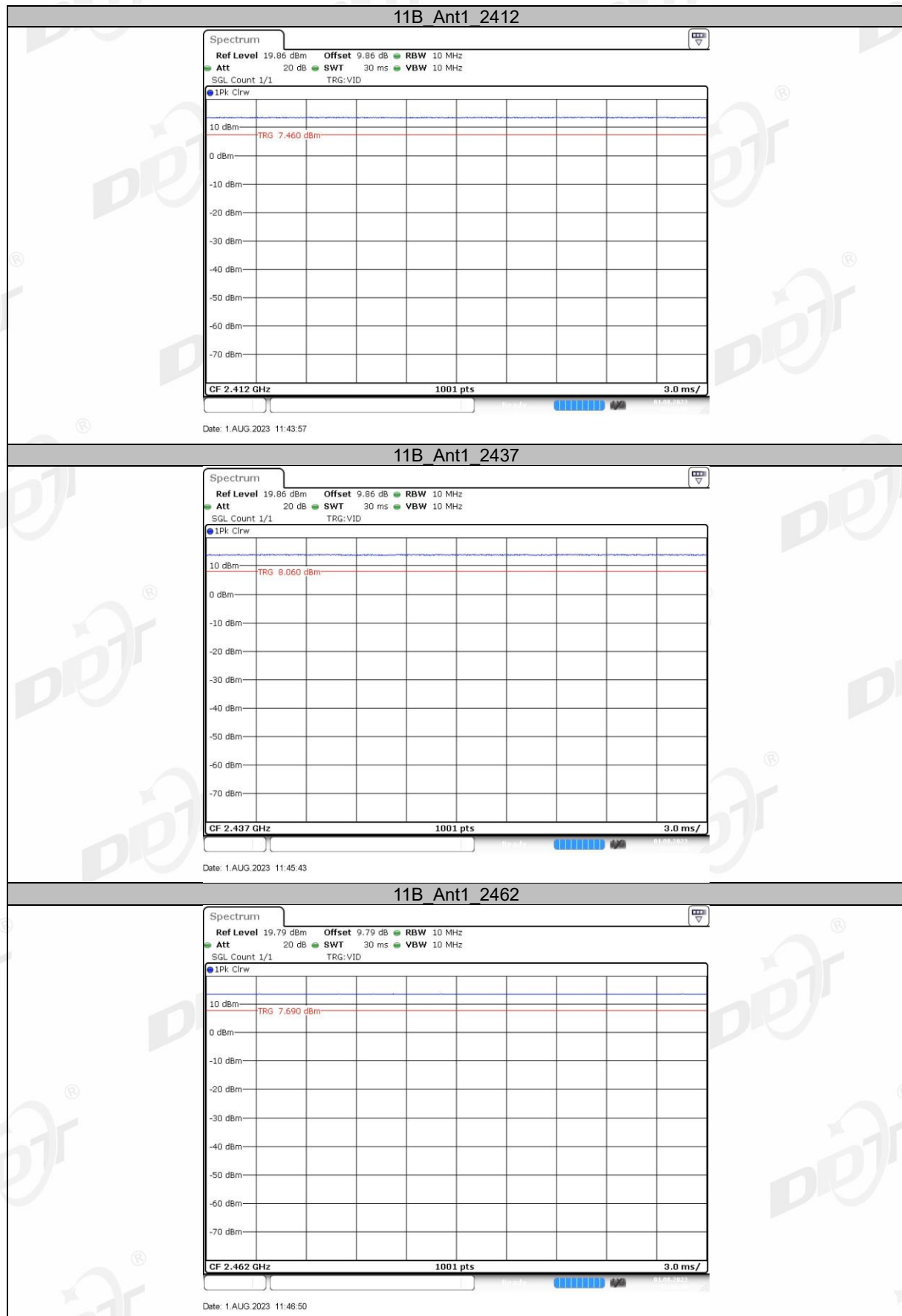
Sweep: Video Trigger

- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

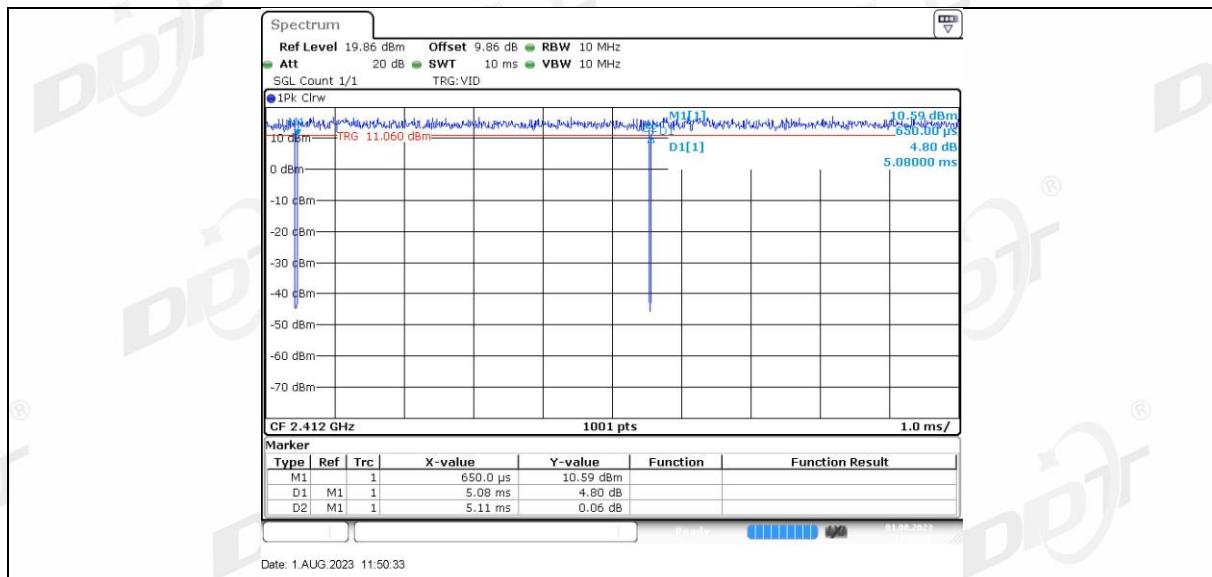
10.4. Test result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	30.00	30.00	100.00
		2437	30.00	30.00	100.00
		2462	30.00	30.00	100.00
11G	Ant1	2412	5.48	5.51	99.46
		2437	5.49	5.51	99.64
		2462	5.49	5.51	99.64
11N20SISO	Ant1	2412	5.08	5.11	99.41
		2437	5.09	5.11	99.61
		2462	5.08	5.11	99.41
11N40SISO	Ant1	2422	2.47	2.49	99.20
		2437	2.47	2.50	98.80
		2452	2.47	2.50	98.80

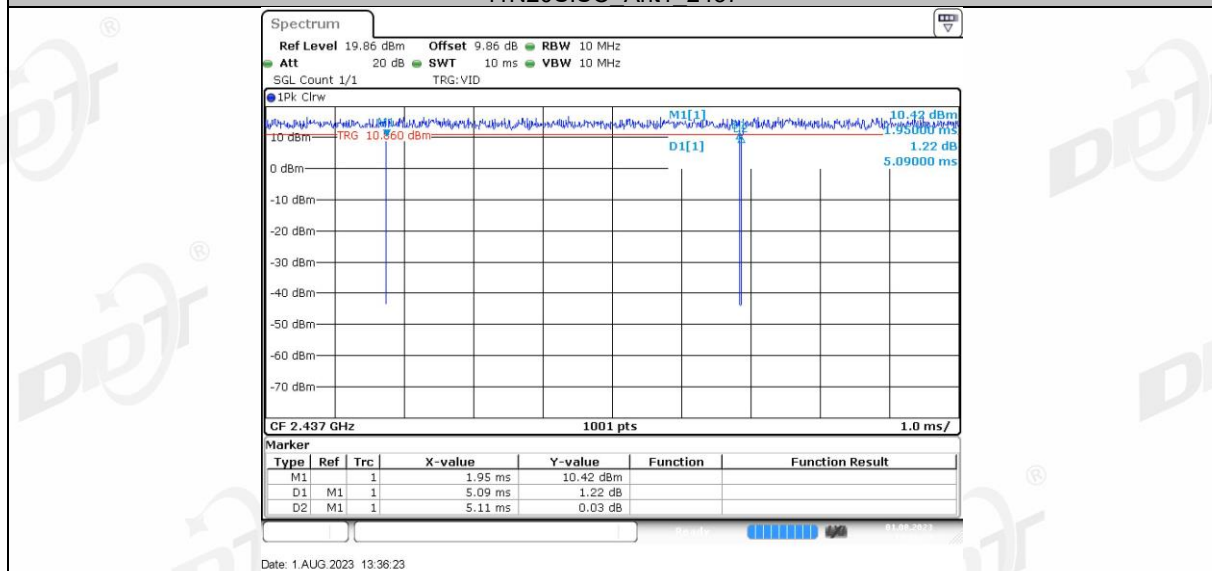
10.5. Test graphs



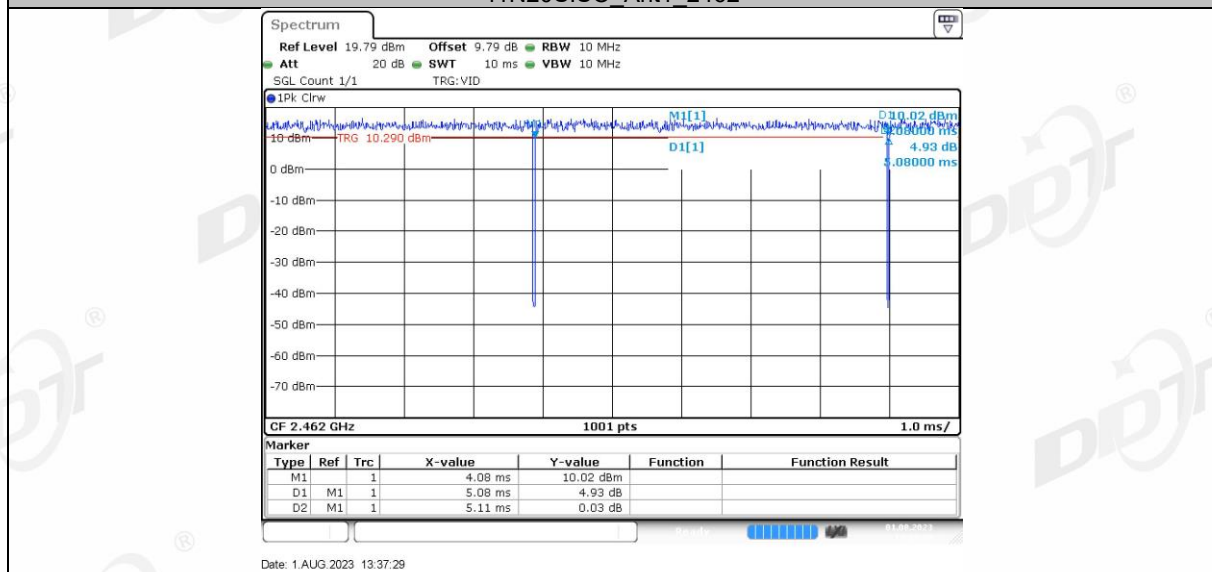




11N20SISO Ant1_2437



11N20SISO Ant1_2462



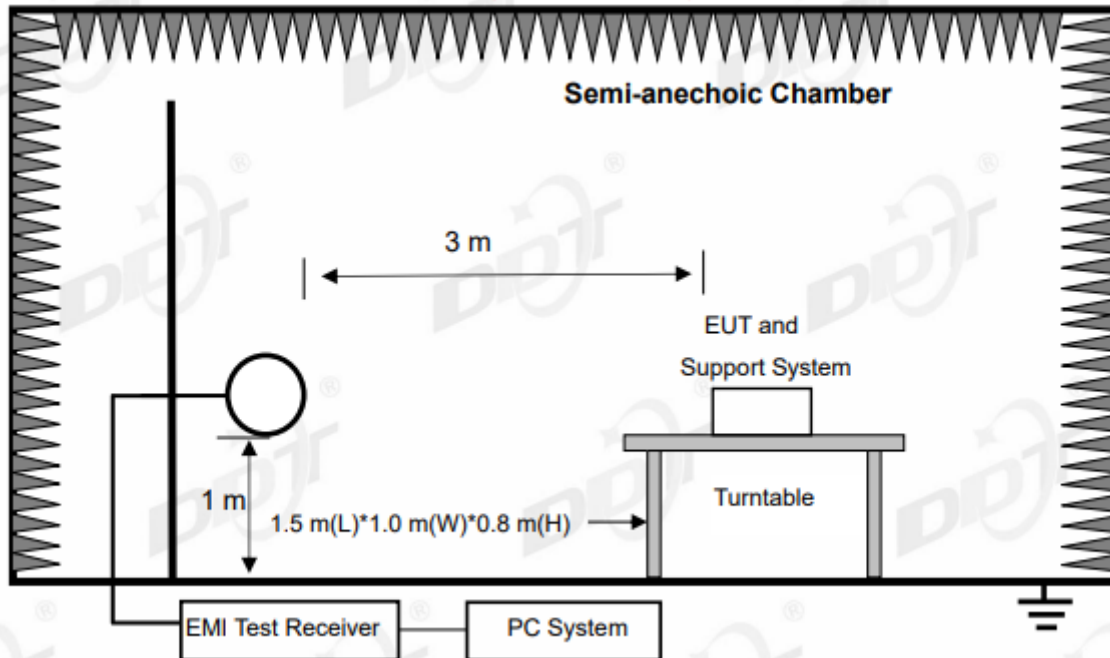
11N40SISO Ant1_2422



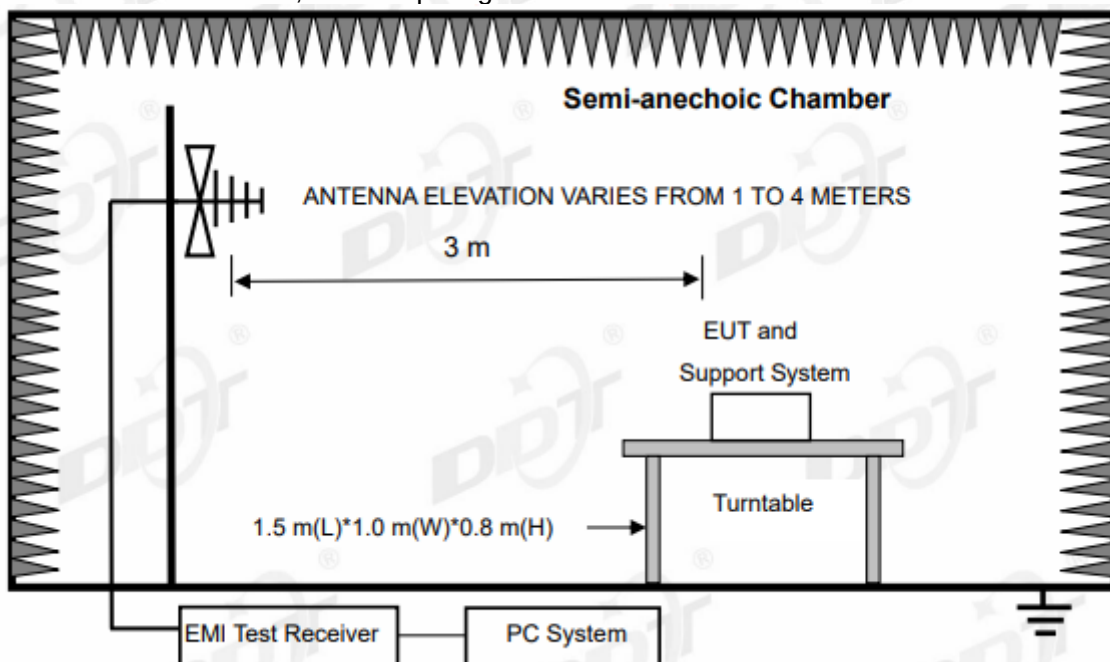
11. Radiated Spurious Emissions

11.1. Block diagram of test setup

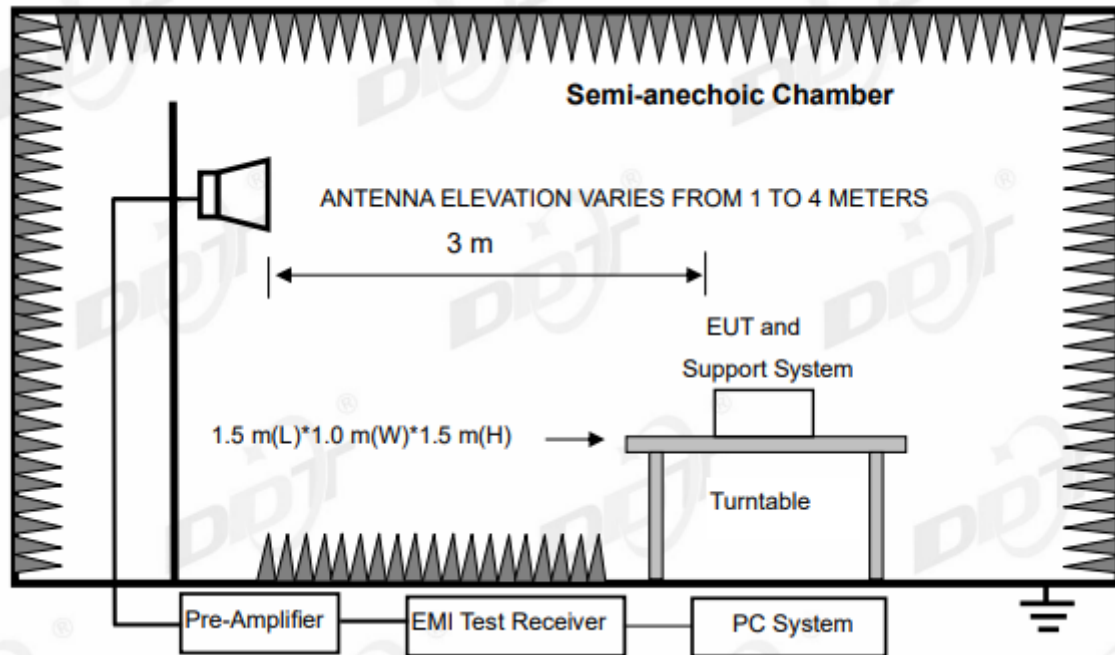
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

11.2. Limit

(1) FCC 15.205 Restricted frequency band:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit.

Frequency (MHz)	Measurement distance (meters)	Field strength limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{kHz})$	$67.6-20\log(\text{F})$
0.490 ~ 1.705	30	$24000/\text{F}(\text{kHz})$	$87.6-20\log(\text{F})$
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak), 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\log(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

11.3. Test procedure

- (1) EUT height should be 0.8 m for below 1 GHz at a semi - anechoic chamber while EUT height should be 1.5 m for above 1 GHz at full chamber or semi - anechoic chamber ground with absorbers.
- (2) The antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m
1GHz-18GHz	Double Ridged Horn Antenna (1GHz-18GHz)	3m
18GHz-40GHz	Horn Antenna (18GHz-40GHz)	1m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

- (b) Change work frequency or channel of device if practicable.

- (c) Change modulation type of device if practicable.

- (d) Change power supply range from 85% to 115% of the rated supply voltage

- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9kHz to 18GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90 kHz, 110 kHz-490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; RMS detector RBW 1 MHz VBW 10 Hz for Average measure (according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure).
- (8) For portable device, X axis, Y axis, Z axis are tested, and worse axis is reported.

11.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note 1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note 2: 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is 802.11b mode.)

Note 3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 802.11b Tx 2437 MHz mode.

Note 4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit, only recorded the worst case in this report.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-08-01

Tested By: Bairong

EUT: Smart door and window sensor

Model Number: 50854

Test Mode: TX Mode

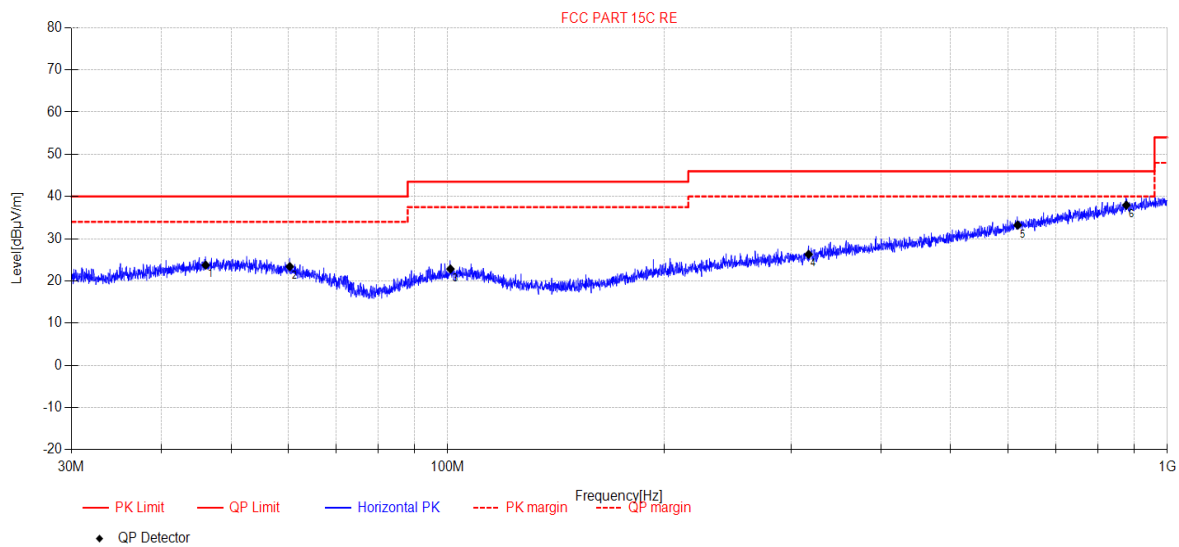
Power Supply: Battery

Condition: Temp:23.4°C;Humi:64.5%

Test Site: DDT 3# Chamber

File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC BELOW 1G\20230724-154255_H

Memo: 2.4GWIFI



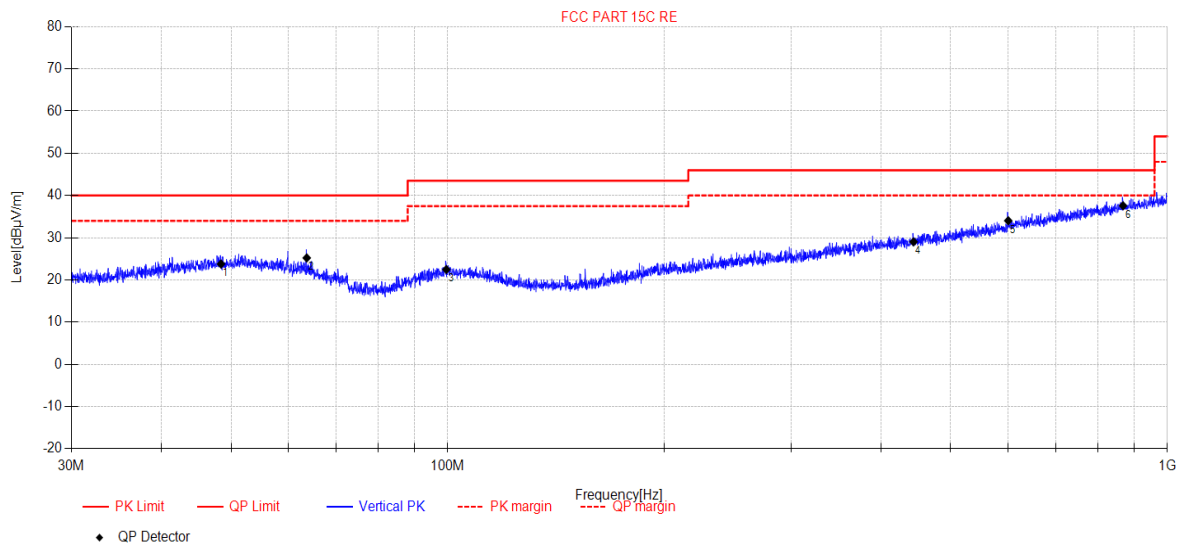
Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	46.11	5.96	13.11	4.68	0.00	23.75	40.00	16.25	QP	Horizontal
2	60.36	6.84	11.79	4.76	0.00	23.39	40.00	16.61	QP	Horizontal
3	100.91	6.77	10.99	5.07	0.00	22.83	43.50	20.67	QP	Horizontal
4	317.33	6.3	13.75	6.25	0.00	26.30	46.00	19.70	QP	Horizontal
5	619.46	6.91	18.90	7.41	0.00	33.22	46.00	12.78	QP	Horizontal
6	877.11	7.4	22.30	8.26	0.00	37.96	46.00	8.04	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-08-01
Tested By: Bairong
EUT: Smart door and window sensor
Model Number: 50854
Test Mode: TX Mode
Power Supply: Battery
Condition: Temp:23.4°C;Humi:64.5%
Test Site: DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC BELOW 1G\20230724-154340_V
Memo: 2.4GWIFI



Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	48.43	5.87	13.20	4.71	0.00	23.78	40.00	16.22	QP	Vertical
2	63.70	9.48	10.96	4.77	0.00	25.21	40.00	14.79	QP	Vertical
3	99.57	6.55	10.86	5.06	0.00	22.47	43.50	21.03	QP	Vertical
4	443.99	6.23	16.00	6.80	0.00	29.03	46.00	16.97	QP	Vertical
5	601.07	8	18.70	7.33	0.00	34.03	46.00	11.97	QP	Vertical
6	867.94	7.19	22.16	8.22	0.00	37.57	46.00	8.43	QP	Vertical

Note:

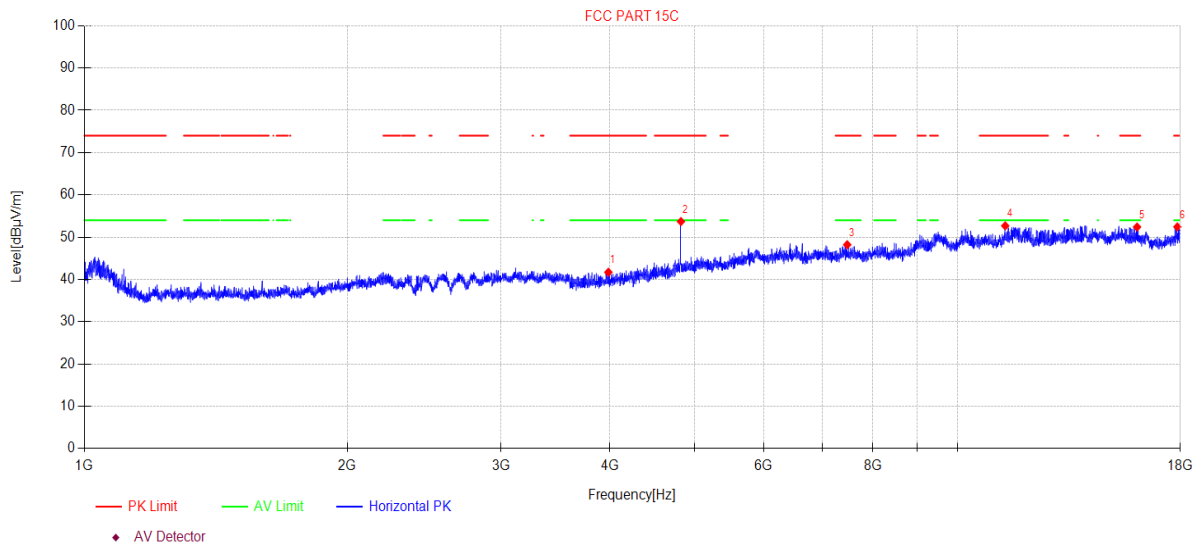
- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\55
Memo: 11B 2412

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3983.01	46.57	5.85	30.67	-41.39	41.70	74.00	32.30	PK	Horizontal
2	4822.83	54.95	7.51	32.39	-41.15	53.70	74.00	20.30	PK	Horizontal
3	7476.66	45.12	7.64	36.45	-41.00	48.21	74.00	25.79	PK	Horizontal
4	11342.27	43.59	9.95	39.10	-39.95	52.69	74.00	21.31	PK	Horizontal
5	16058.10	39.30	15.65	37.84	-40.39	52.40	74.00	21.60	PK	Horizontal
6	17860.09	39.19	12.96	40.92	-40.64	52.43	74.00	21.57	PK	Horizontal

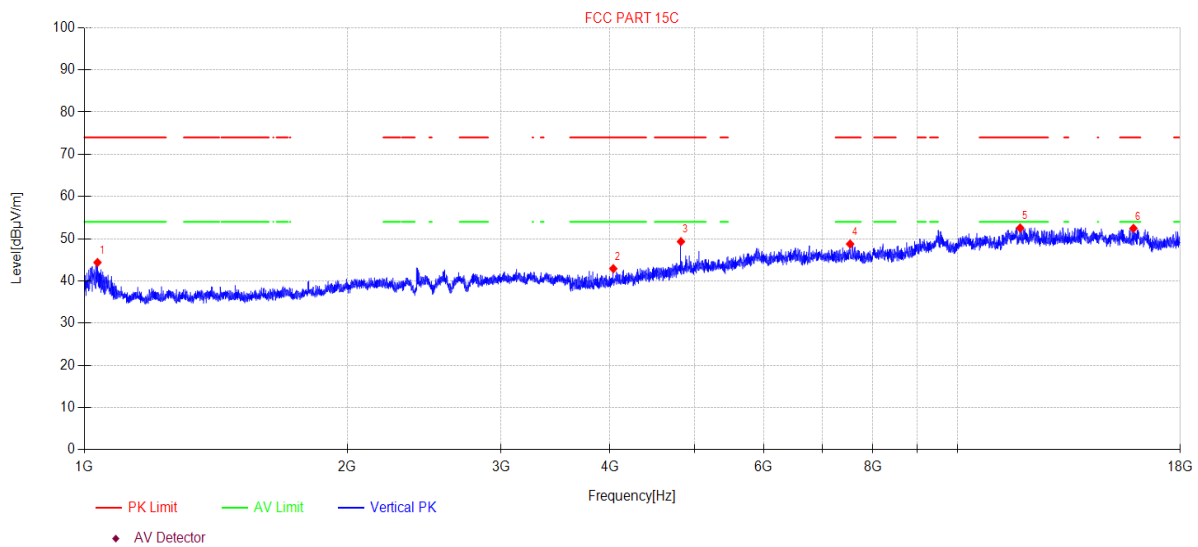
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\56
Memo: 11B 2412

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1035.29	54.12	3.03	25.47	-38.25	44.37	74.00	29.63	PK	Vertical
2	4035.15	47.61	5.92	30.77	-41.39	42.91	74.00	31.09	PK	Vertical
3	4822.83	50.57	7.51	32.39	-41.15	49.32	74.00	24.68	PK	Vertical
4	7535.23	45.69	7.65	36.40	-41.00	48.74	74.00	25.26	PK	Vertical
5	11796.96	42.60	10.36	38.80	-39.22	52.54	74.00	21.46	PK	Vertical
6	15905.68	39.24	15.45	38.09	-40.33	52.45	74.00	21.55	PK	Vertical

Note:

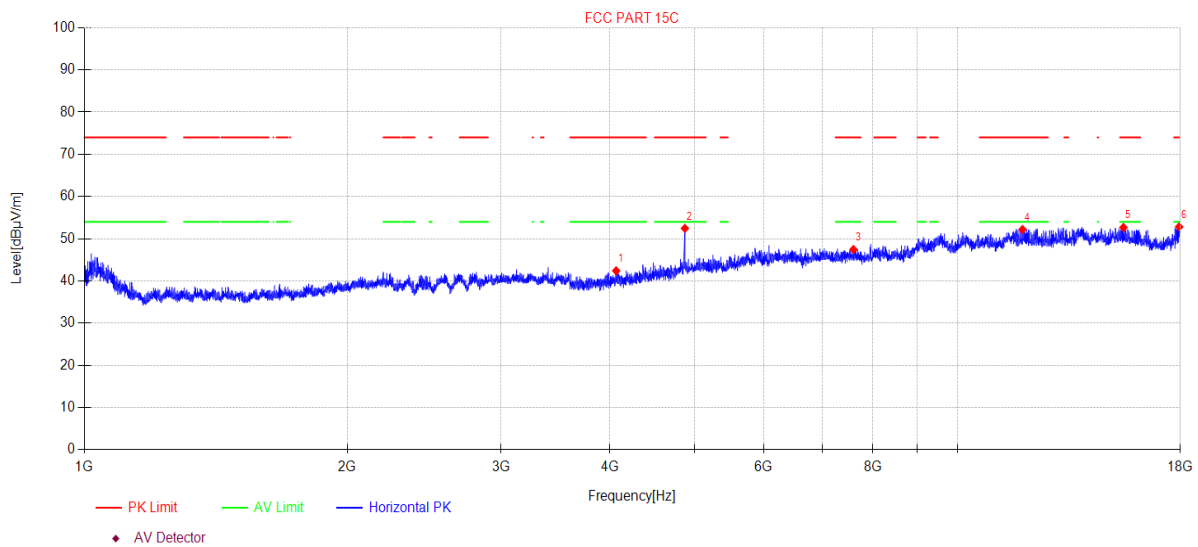
- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\57
Memo: 11B 2442

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4065.58	46.97	5.98	30.83	-41.38	42.40	74.00	31.60	PK	Horizontal
2	4873.27	53.43	7.61	32.55	-41.14	52.45	74.00	21.55	PK	Horizontal
3	7600.85	44.40	7.65	36.40	-41.00	47.45	74.00	26.55	PK	Horizontal
4	11872.20	42.07	10.43	38.80	-39.10	52.20	74.00	21.80	PK	Horizontal
5	15492.82	40.52	13.58	38.61	-40.04	52.67	74.00	21.33	PK	Horizontal
6	17942.87	38.98	13.06	41.46	-40.68	52.82	74.00	21.18	PK	Horizontal

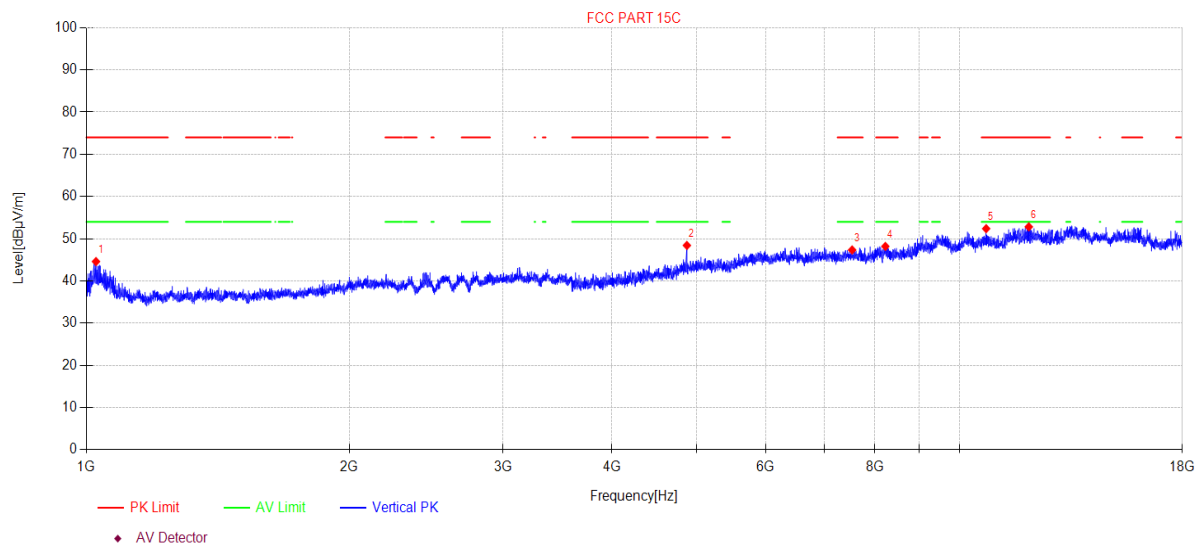
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\58
Memo: 11B 2442

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1025.76	54.38	3.00	25.45	-38.24	44.59	74.00	29.41	PK	Vertical
2	4873.27	49.39	7.61	32.55	-41.14	48.41	74.00	25.59	PK	Vertical
3	7535.23	44.29	7.65	36.40	-41.00	47.34	74.00	26.66	PK	Vertical
4	8224.84	43.81	7.92	37.10	-40.64	48.19	74.00	25.81	PK	Vertical
5	10730.04	44.36	9.46	39.10	-40.53	52.39	74.00	21.61	PK	Vertical
6	12006.78	42.27	10.54	38.91	-38.91	52.81	74.00	21.19	PK	Vertical

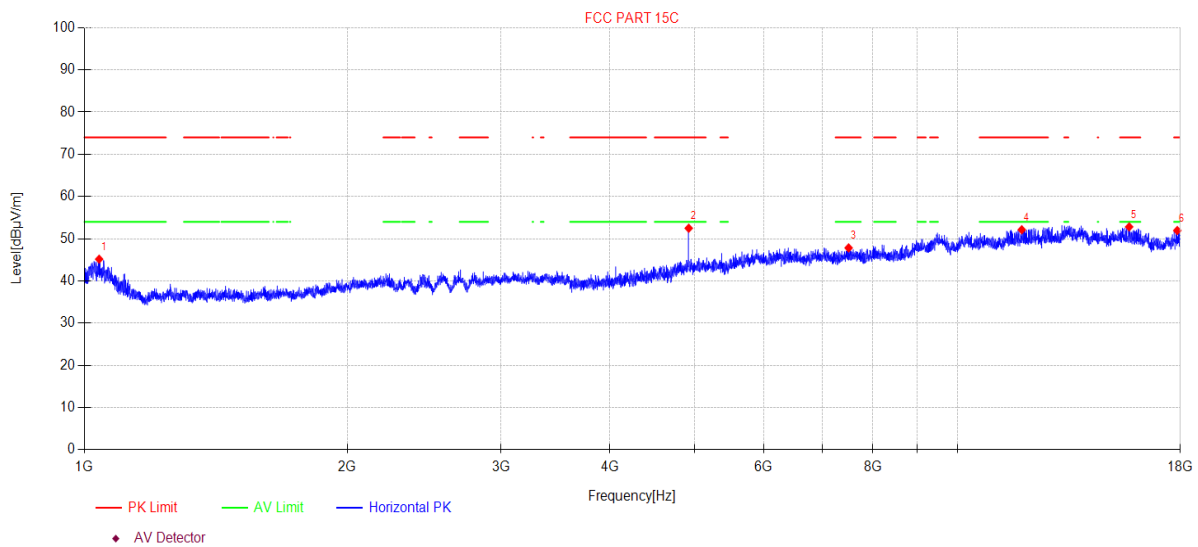
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\59
Memo: 11B 2472

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1039.79	54.89	3.05	25.48	-38.26	45.16	74.00	28.84	PK	Horizontal
2	4922.82	53.20	7.71	32.69	-41.12	52.48	74.00	21.52	PK	Horizontal
3	7504.81	44.78	7.65	36.40	-41.00	47.83	74.00	26.17	PK	Horizontal
4	11848.21	42.07	10.40	38.80	-39.14	52.13	74.00	21.87	PK	Horizontal
5	15727.41	40.10	14.65	38.27	-40.21	52.81	74.00	21.19	PK	Horizontal
6	17854.93	38.75	12.96	40.88	-40.64	51.95	74.00	22.05	PK	Horizontal

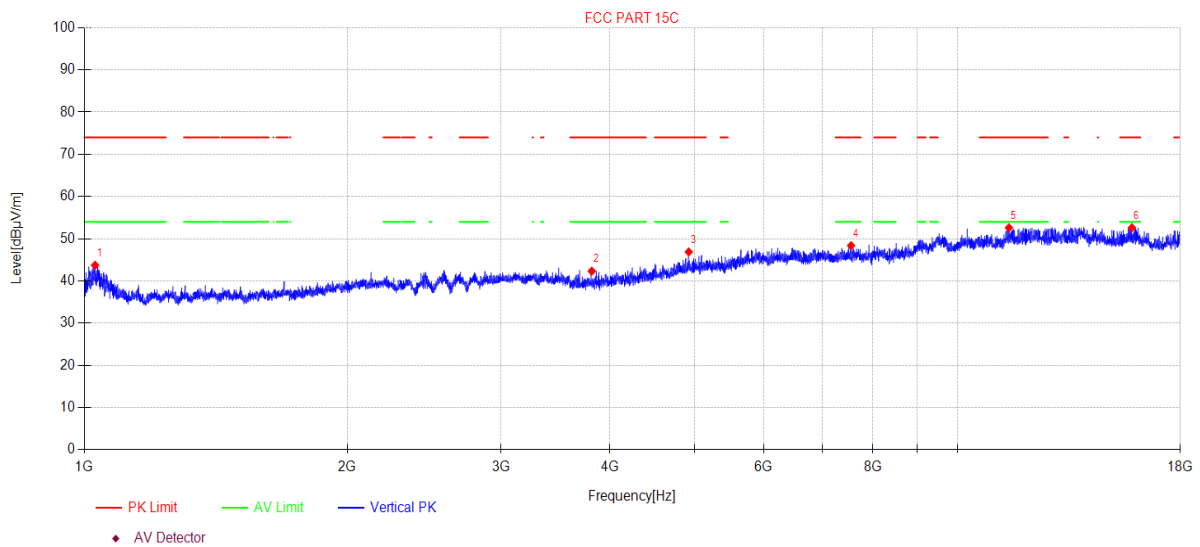
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\60
Memo: 11B 2462

Test Graph



Suspected Data List

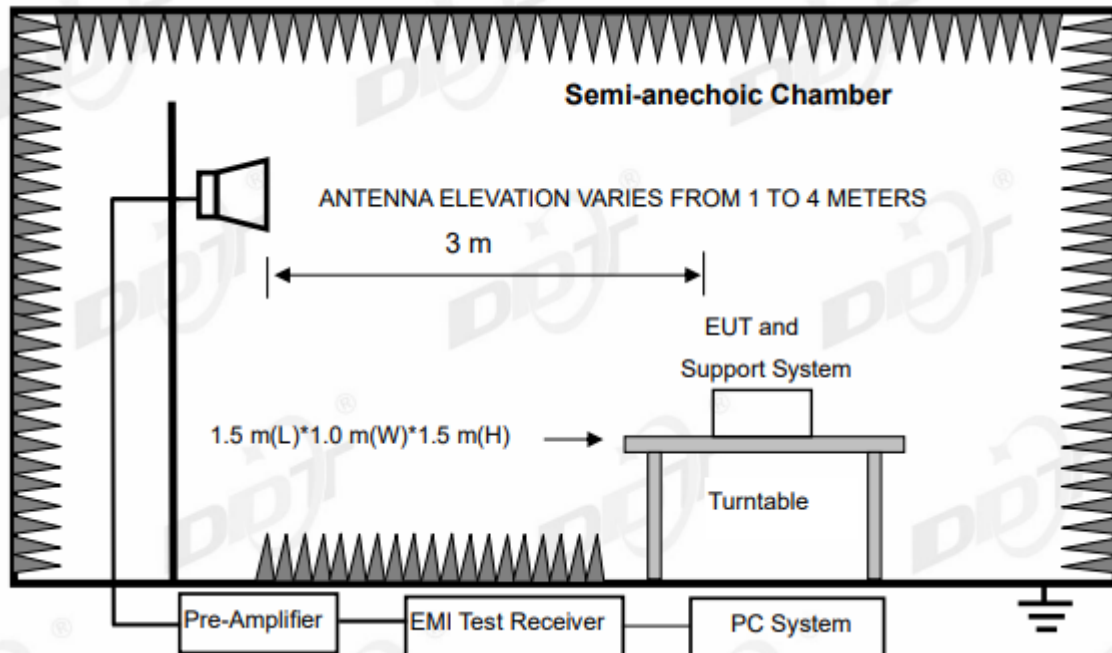
NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1028.73	53.49	3.01	25.46	-38.24	43.72	74.00	30.28	PK	Vertical
2	3811.83	47.49	5.81	30.32	-41.29	42.33	74.00	31.67	PK	Vertical
3	4922.82	47.60	7.71	32.69	-41.12	46.88	74.00	27.12	PK	Vertical
4	7554.86	45.31	7.65	36.40	-41.00	48.36	74.00	25.64	PK	Vertical
5	11454.27	43.27	10.05	39.05	-39.77	52.60	74.00	21.40	PK	Vertical
6	15841.45	39.57	15.16	38.16	-40.29	52.60	74.00	21.40	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Radiated Band Edge Compliance

12.1. Block diagram of test setup



12.2. Limit

All restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400 MHz to 2483.5 MHz shall be at least 20dB below the fundamental emissions or comply with RSS-Gen Issue 5 clause 6.13.2 (Same as FCC 15.209) limits.

12.3. Test procedure

Same with Radiated Spurious Emissions except change investigated frequency range from 2310 MHz to 2430 MHz and 2445 MHz to 2500 MHz.

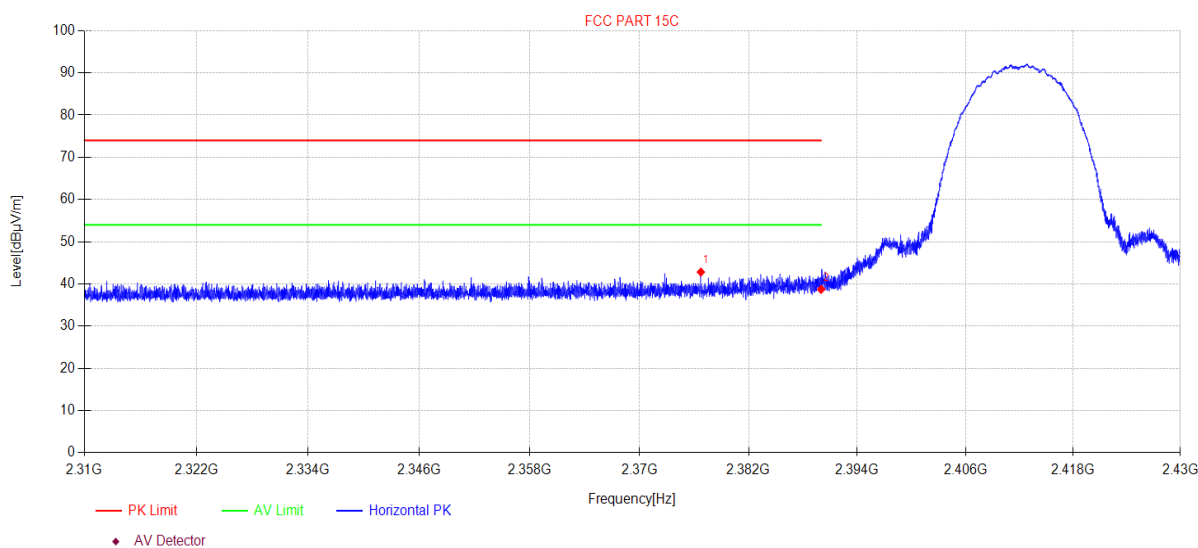
12.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\61
Memo: 11B 2412

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2376.76	51.61	3.86	27.45	-40.11	42.81	74.00	31.19	PK	Horizontal
2	2390.00	47.50	3.87	27.48	-40.13	38.72	74.00	35.28	PK	Horizontal

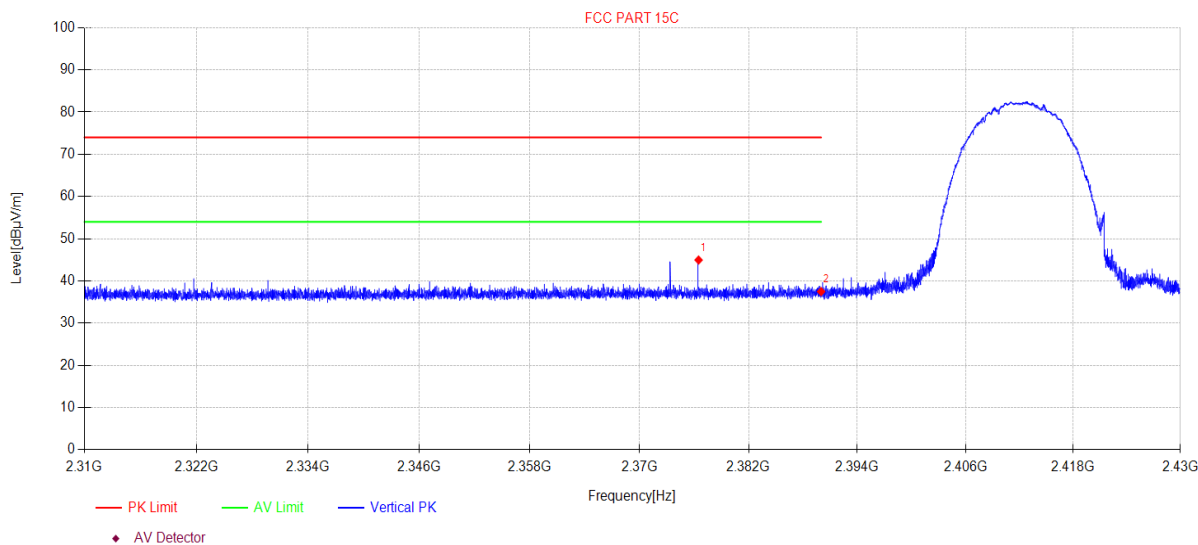
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\62
Memo: 11B 2412

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2376.50	53.76	3.86	27.45	-40.11	44.96	74.00	29.04	PK	Vertical
2	2390.00	46.26	3.87	27.48	-40.13	37.48	74.00	36.52	PK	Vertical

Note:

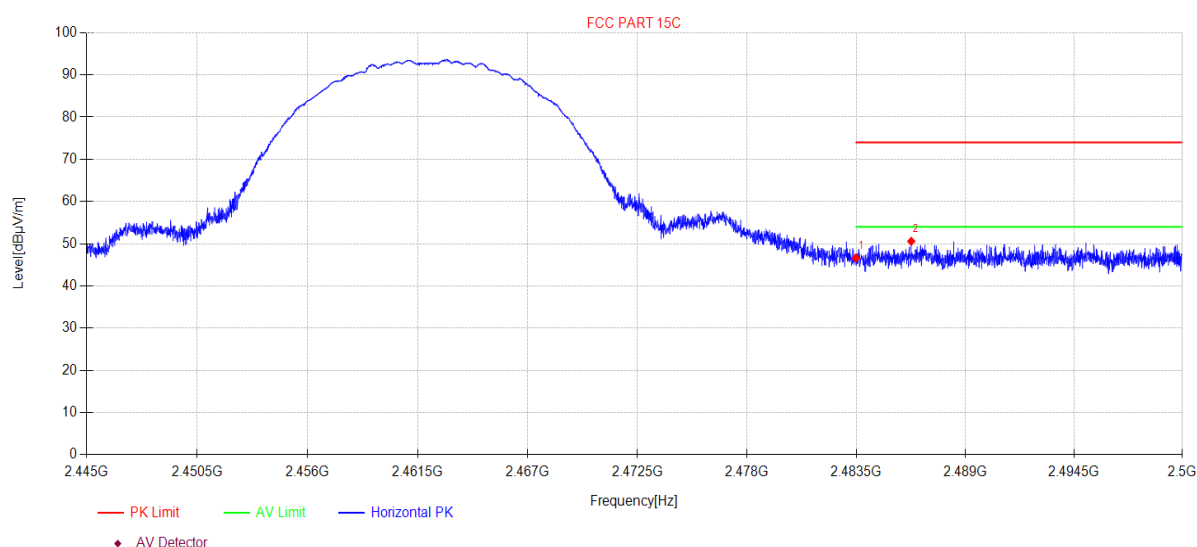
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\69
Memo: 11B 2462

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	55.20	3.94	27.73	-40.23	46.64	74.00	27.36	PK	Horizontal
2	2486.28	59.11	3.94	27.75	-40.23	50.57	74.00	23.43	PK	Horizontal

Note:

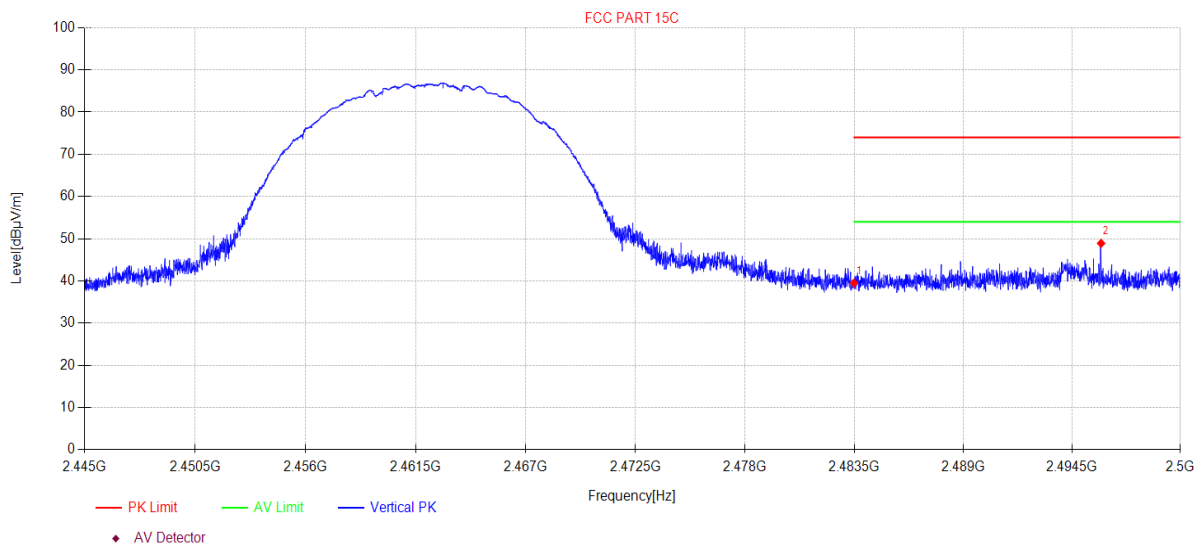
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\70
Memo: 11B 2462

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	48.05	3.94	27.73	-40.23	39.49	74.00	34.51	PK	Vertical
2	2495.99	57.43	3.95	27.78	-40.25	48.91	74.00	25.09	PK	Vertical

Note:

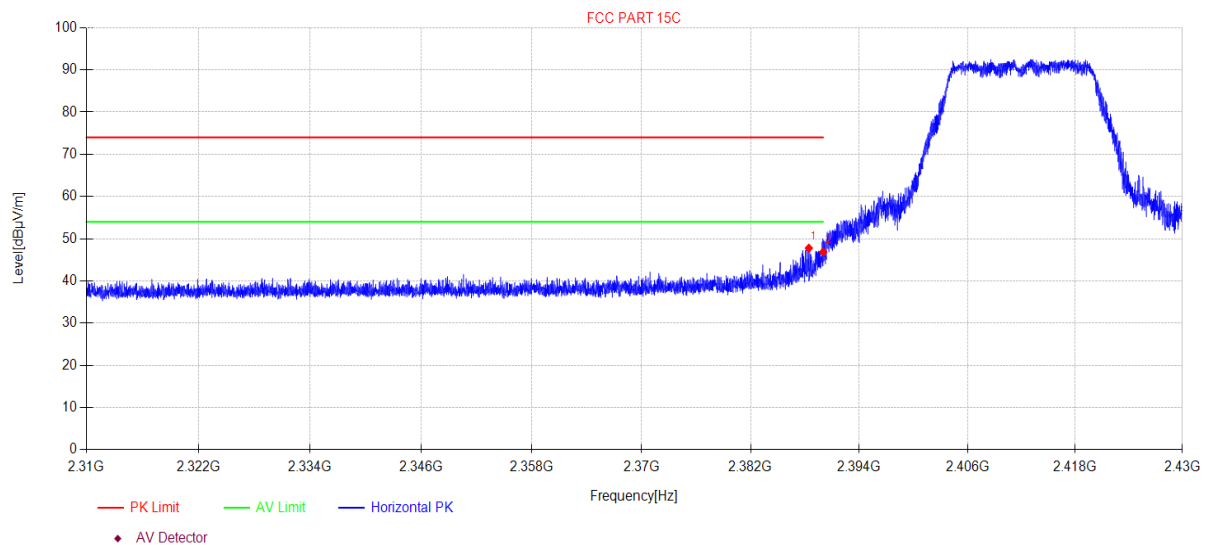
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\63
Memo: 11G 2412

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.42	56.56	3.87	27.48	-40.13	47.78	74.00	26.22	PK	Horizontal
2	2390.00	55.64	3.87	27.48	-40.13	46.86	74.00	27.14	PK	Horizontal

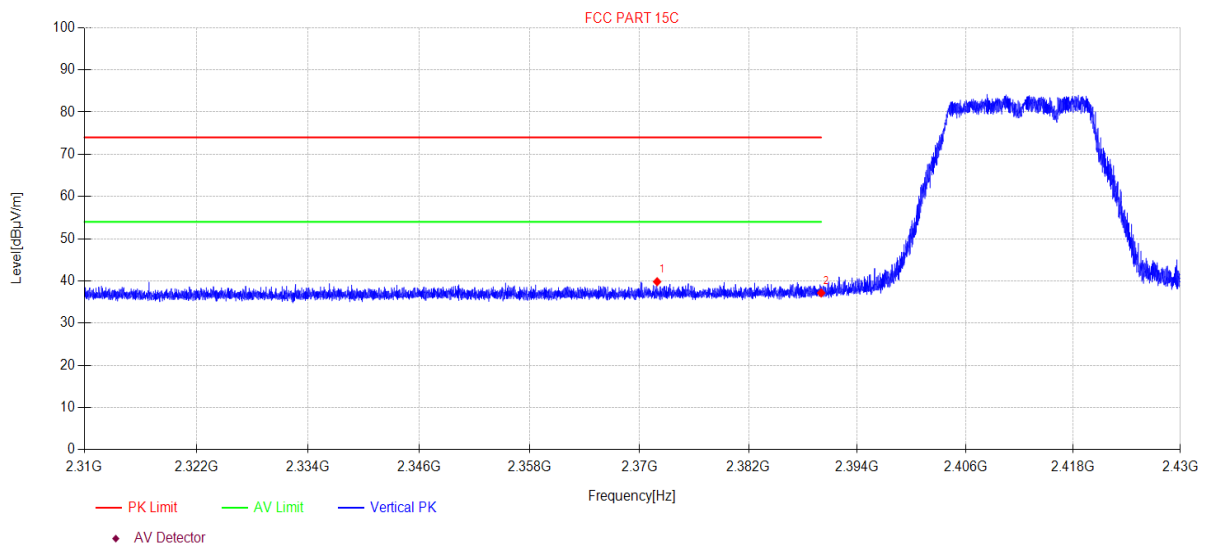
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\64
Memo: 11G 2412

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2371.96	48.64	3.85	27.44	-40.11	39.82	74.00	34.18	PK	Vertical
2	2390.00	45.93	3.87	27.48	-40.13	37.15	74.00	36.85	PK	Vertical

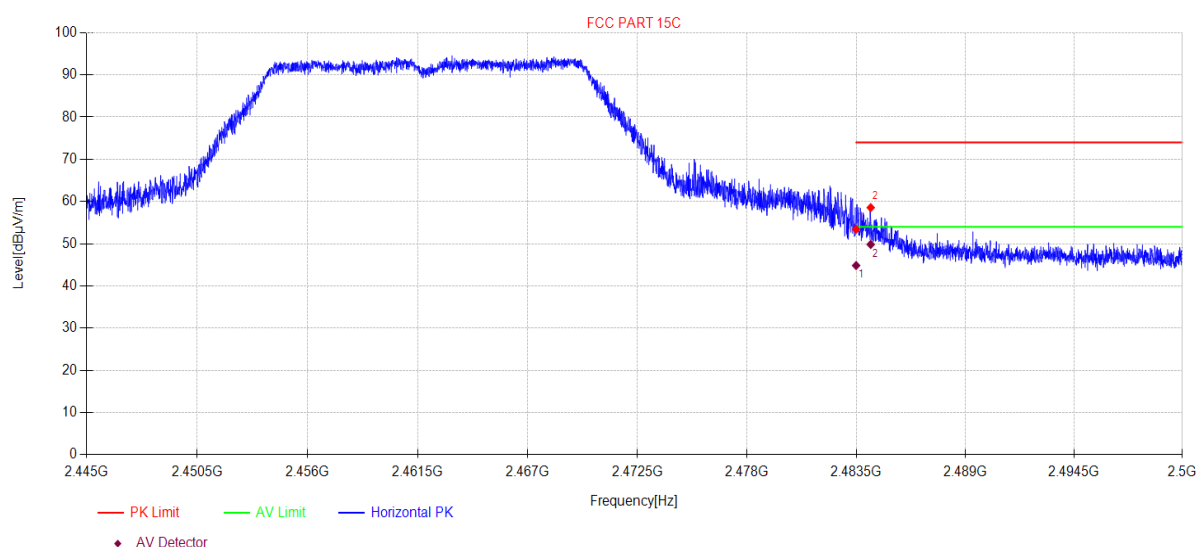
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\71
Memo: 11G 2462

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	61.98	3.94	27.73	-40.23	53.42	74.00	20.58	PK	Horizontal
2	2484.24	67.11	3.94	27.74	-40.23	58.56	74.00	15.44	PK	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	53.40	3.94	27.73	-40.23	44.84	54.00	9.16	AV	Horizontal
2	2484.24	58.39	3.94	27.74	-40.23	49.84	54.00	4.16	AV	Horizontal

Note:

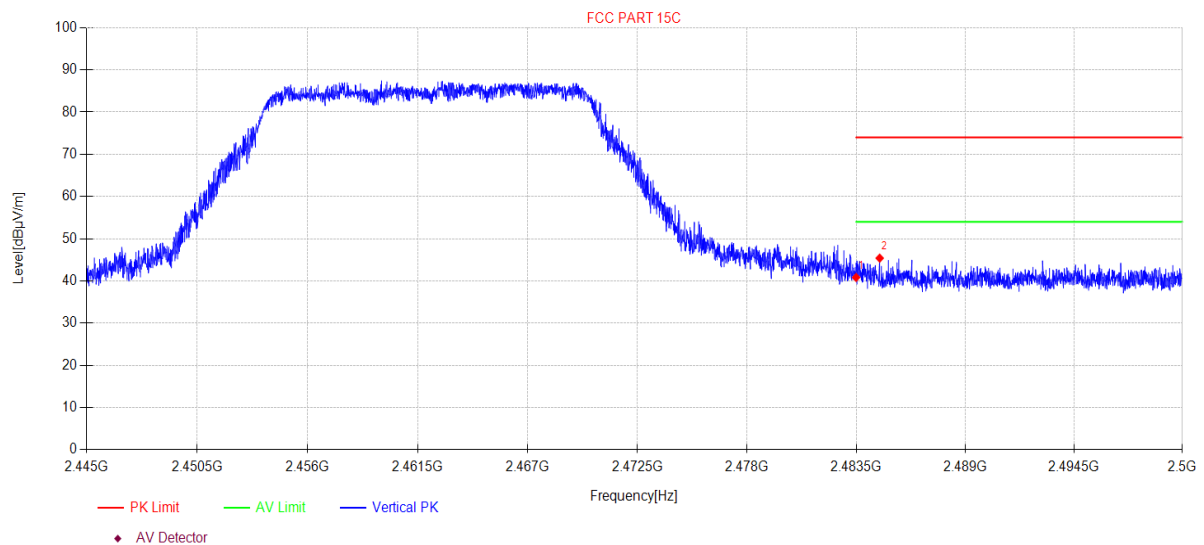
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\72
Memo: 11G 2462

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	49.39	3.94	27.73	-40.23	40.83	74.00	33.17	PK	Vertical
2	2484.69	53.95	3.94	27.74	-40.23	45.40	74.00	28.60	PK	Vertical

Note:

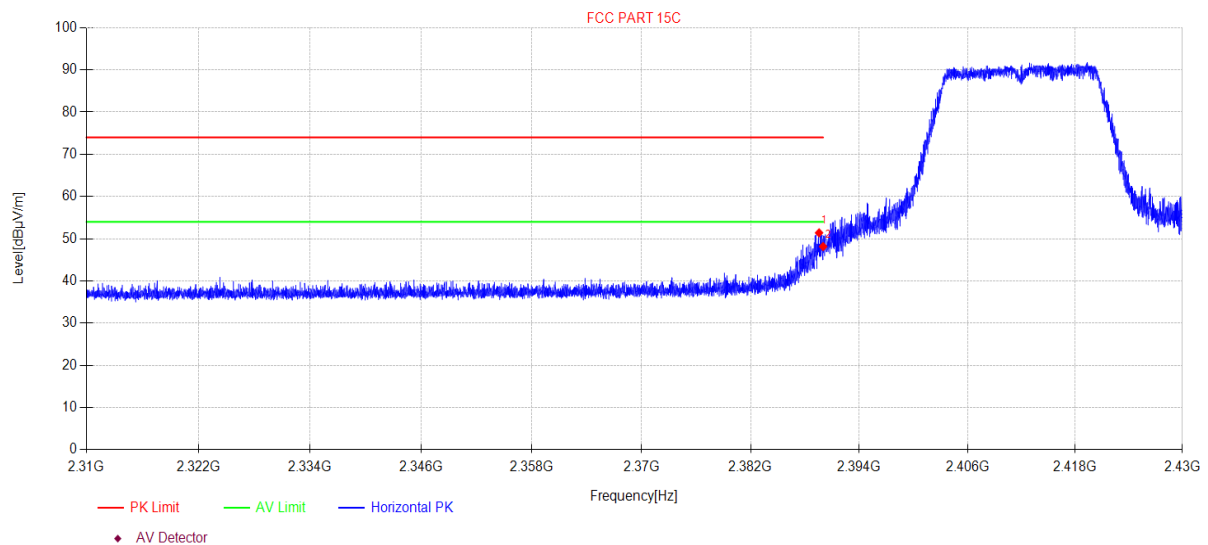
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\65
Memo: 11N20 2412

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.55	60.18	3.87	27.48	-40.13	51.40	74.00	22.60	PK	Horizontal
2	2390.00	56.93	3.87	27.48	-40.13	48.15	74.00	25.85	PK	Horizontal

Note:

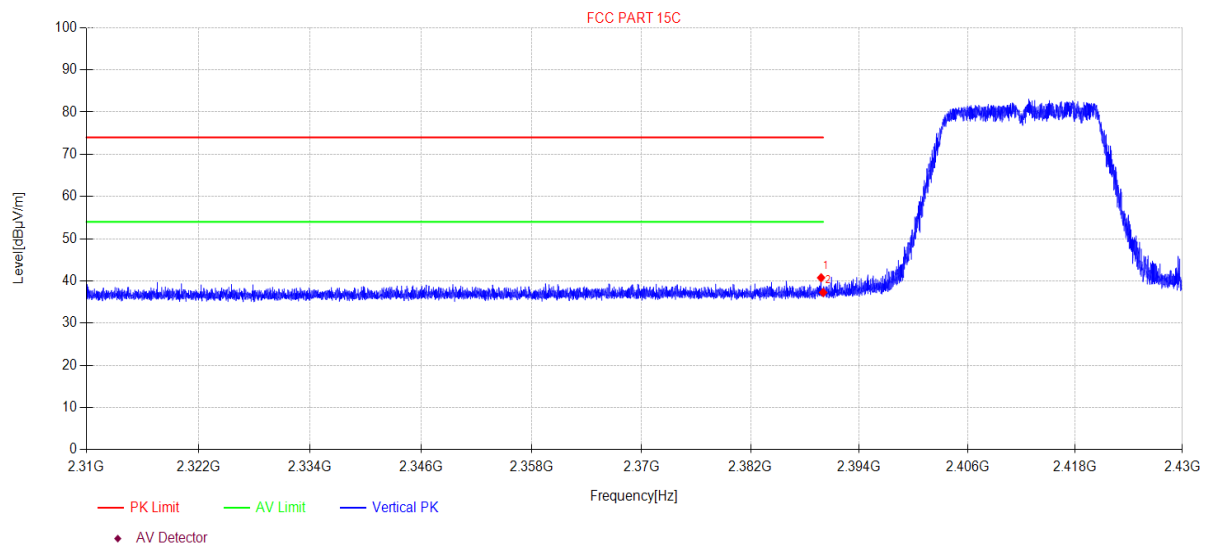
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\66
Memo: 11N20 2412

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.78	49.54	3.87	27.48	-40.13	40.76	74.00	33.24	PK	Vertical
2	2390.00	46.04	3.87	27.48	-40.13	37.26	74.00	36.74	PK	Vertical

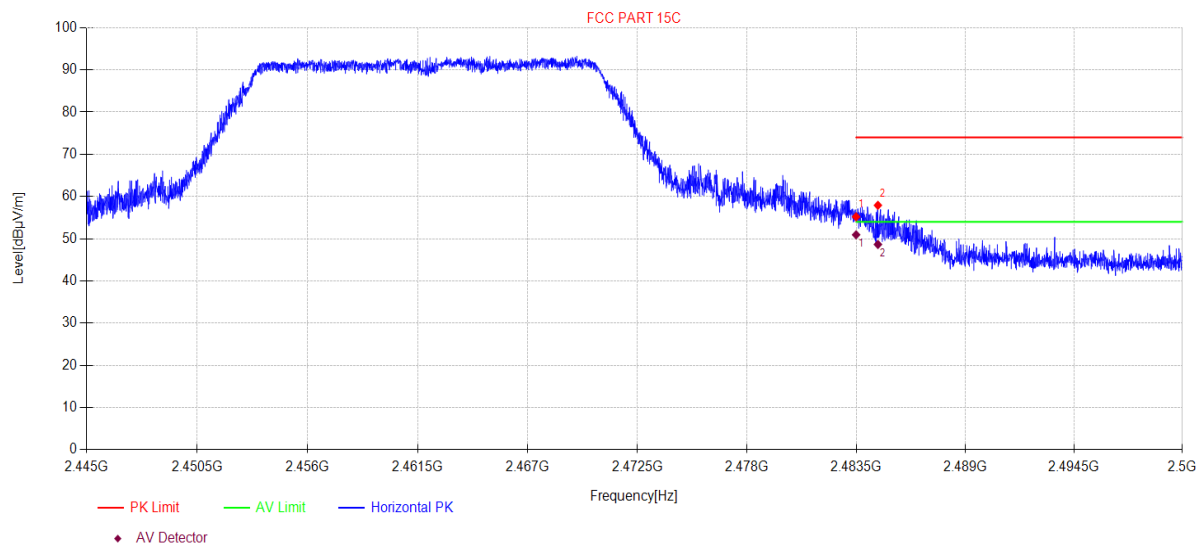
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\73
Memo: 11N20 2462

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	63.76	3.94	27.73	-40.23	55.20	74.00	18.80	PK	Horizontal
2	2484.60	66.47	3.94	27.74	-40.23	57.92	74.00	16.08	PK	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	59.50	3.94	27.73	-40.23	50.94	54.00	3.06	AV	Horizontal
2	2484.60	57.20	3.94	27.74	-40.23	48.65	54.00	5.35	AV	Horizontal

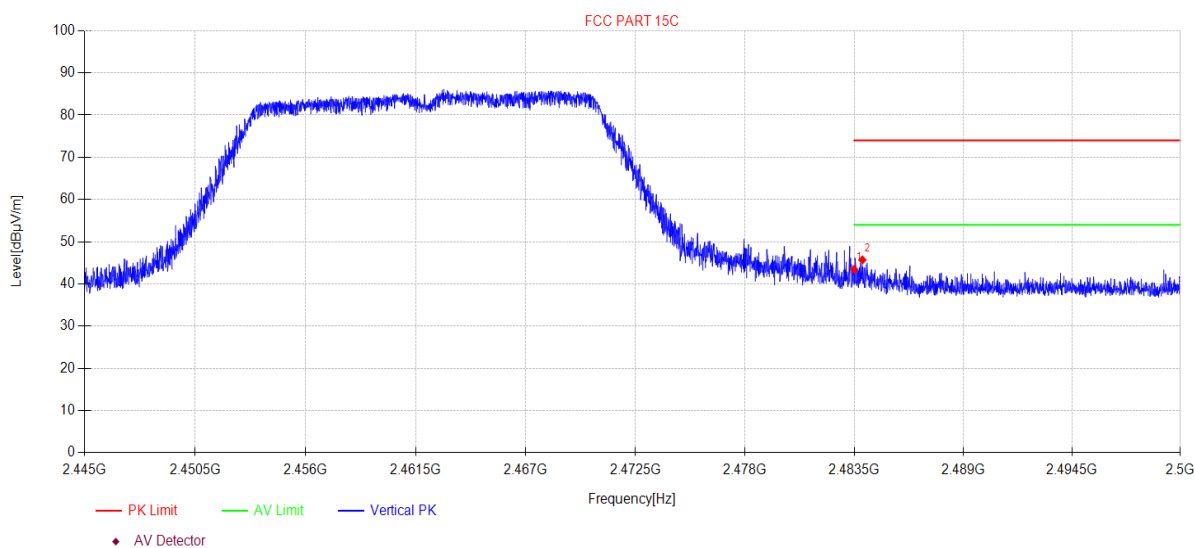
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\74
Memo: 11N20 2462

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	52.01	3.94	27.73	-40.23	43.45	74.00	30.55	PK	Vertical
2	2483.92	54.24	3.94	27.74	-40.23	45.69	74.00	28.31	PK	Vertical

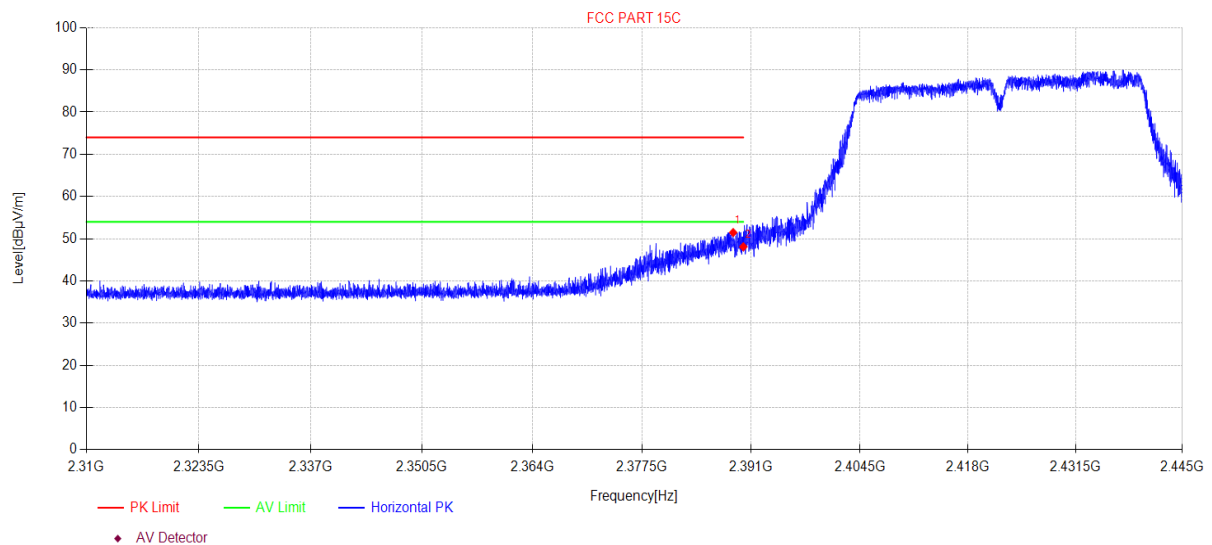
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\67
Memo: 11N40 2422

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.75	60.25	3.87	27.48	-40.13	51.47	74.00	22.53	PK	Horizontal
2	2390.00	56.87	3.87	27.48	-40.13	48.09	74.00	25.91	PK	Horizontal

Note:

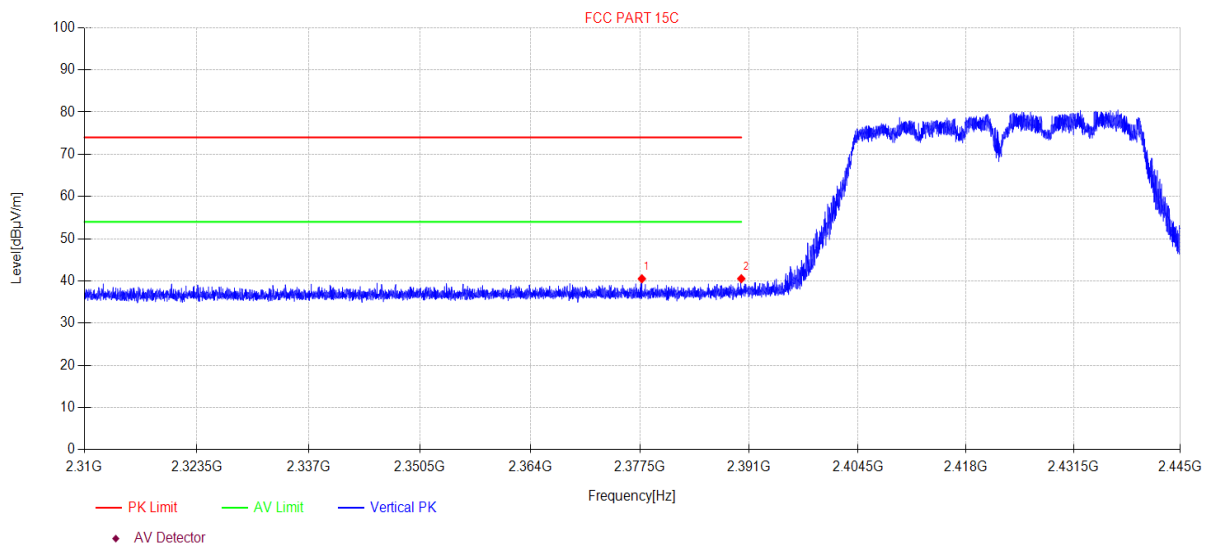
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
EUT: Smart door and window sensor
Test Mode: TX Mode
Condition: Temp:23.4°C;Humi:64.5%
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\68
Memo: 11N40 2422

Tested By: Bairong
Model Number: 50854
Power Supply: Battery
Test Site: DDT 3# Chamber

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2377.72	49.32	3.86	27.46	-40.12	40.52	74.00	33.48	PK	Vertical
2	2390.00	49.31	3.87	27.48	-40.13	40.53	74.00	33.47	PK	Vertical

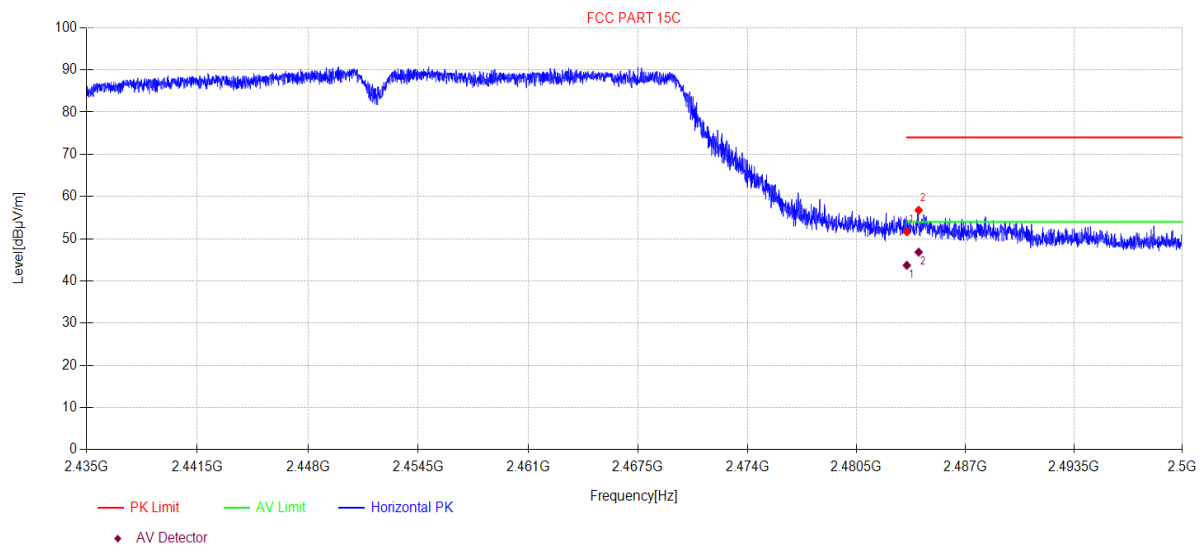
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31 **Tested By:** Bairong
EUT: Smart door and window sensor **Model Number:** 50854
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.4°C;Humi:64.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\75
Memo: 11N40 2452

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	50.19	3.94	27.73	-30.23	51.63	74.00	22.37	PK	Horizontal
2	2484.21	55.31	3.94	27.74	-30.23	56.76	74.00	17.24	PK	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	42.26	3.94	27.73	-30.23	43.70	54.00	10.30	AV	Horizontal
2	2484.21	45.37	3.94	27.74	-30.23	46.82	54.00	7.18	AV	Horizontal

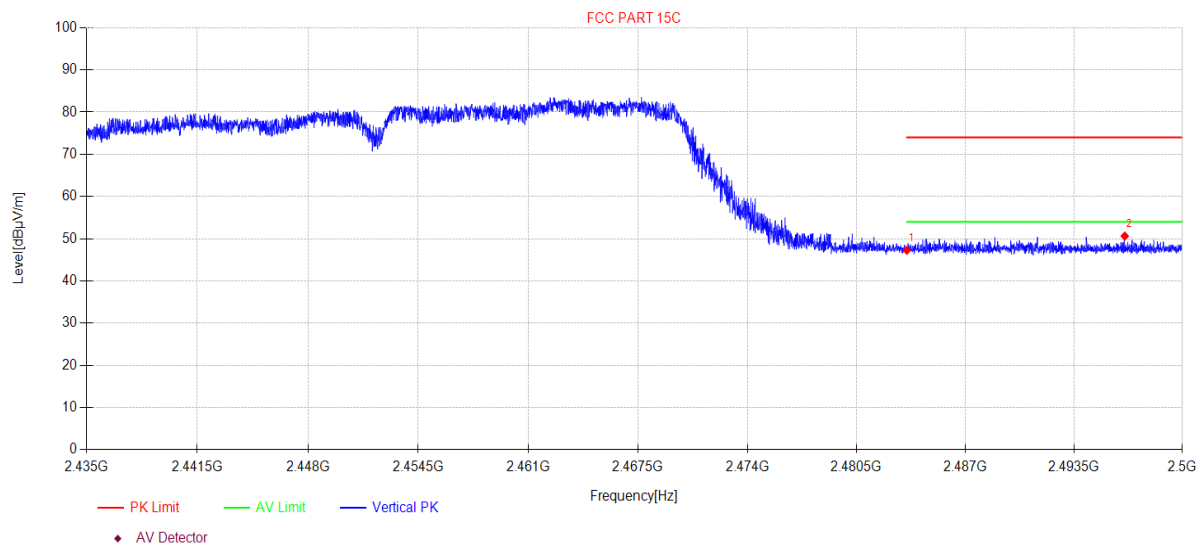
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-07-31
Tested By: Bairong
EUT: Smart door and window sensor
Model Number: 50854
Test Mode: TX Mode
Power Supply: Battery
Condition: Temp:23.4°C;Humi:64.5%
Test Site: DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23071130-2E 50854\FCC ABOVE 1G 2.4GWIFI\76
Memo: 11N40 2452

Test Graph



Suspected Data List

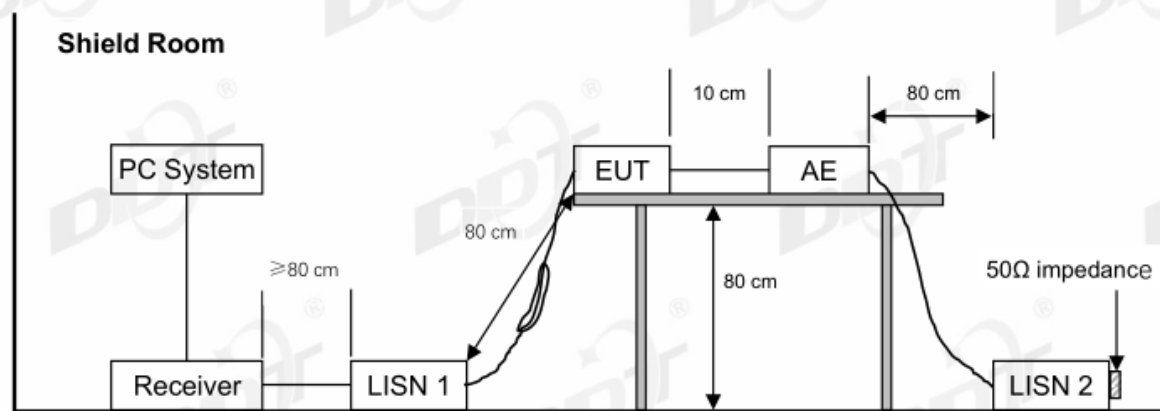
NO.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	45.81	3.94	27.73	-30.23	47.25	74.00	26.75	PK	Vertical
2	2496.54	49.14	3.95	27.79	-30.25	50.63	74.00	23.37	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Power Line Conducted Emission

13.1. Block diagram of test setup



13.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

13.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest

emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

13.4. Test result

N/A

This product is powered by DC.

14. Antenna Requirements

14.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

14.2. Result

The device support 1T1R SISO, the antennas both used for this product are PCB antennas and no antenna other than that furnished by the responsible party shall be used with the device, maximum antenna gain is 1.37 dBi

16. Photos of the EUT

Please refer to appendix I.

END OF REPORT