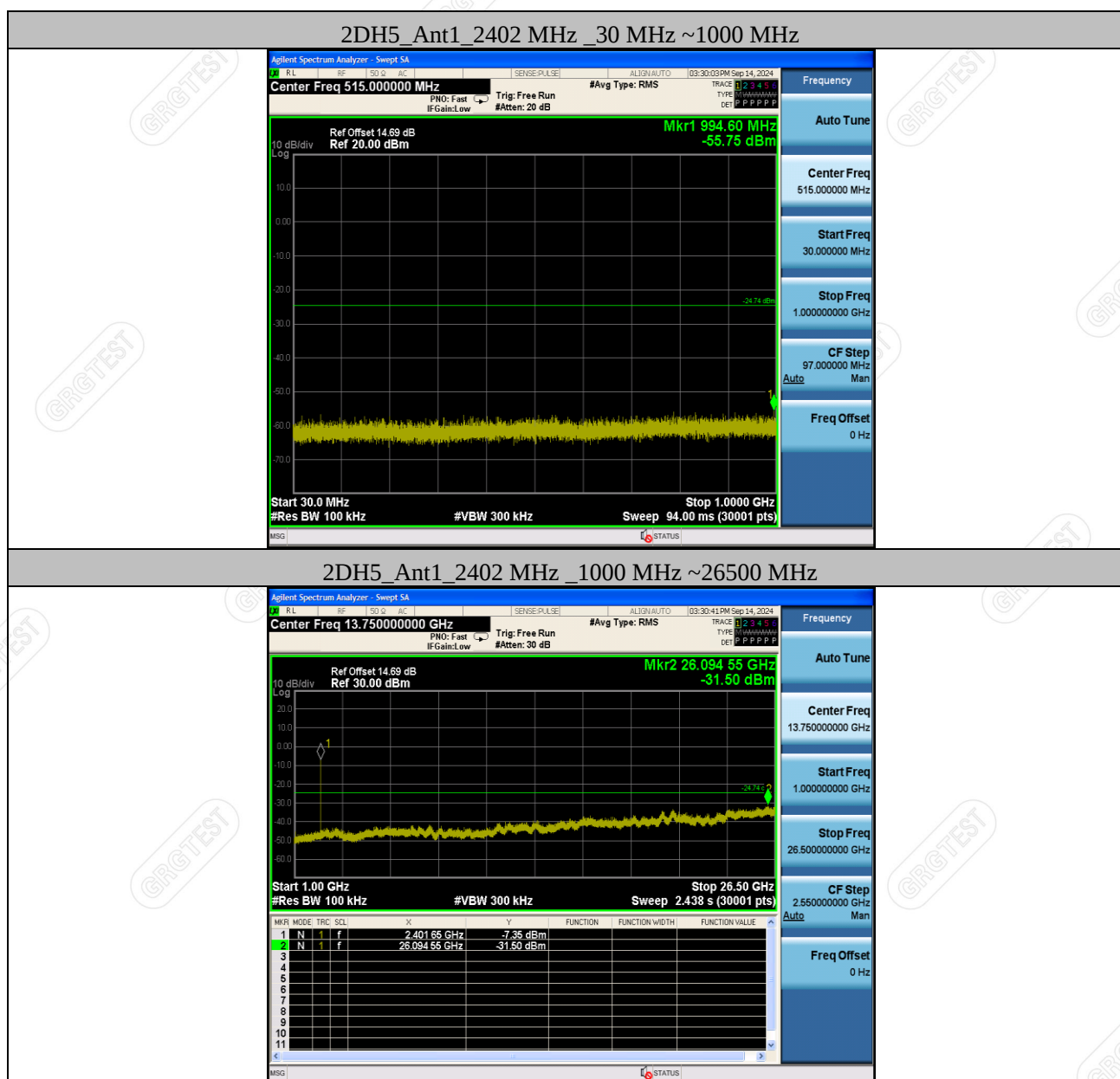
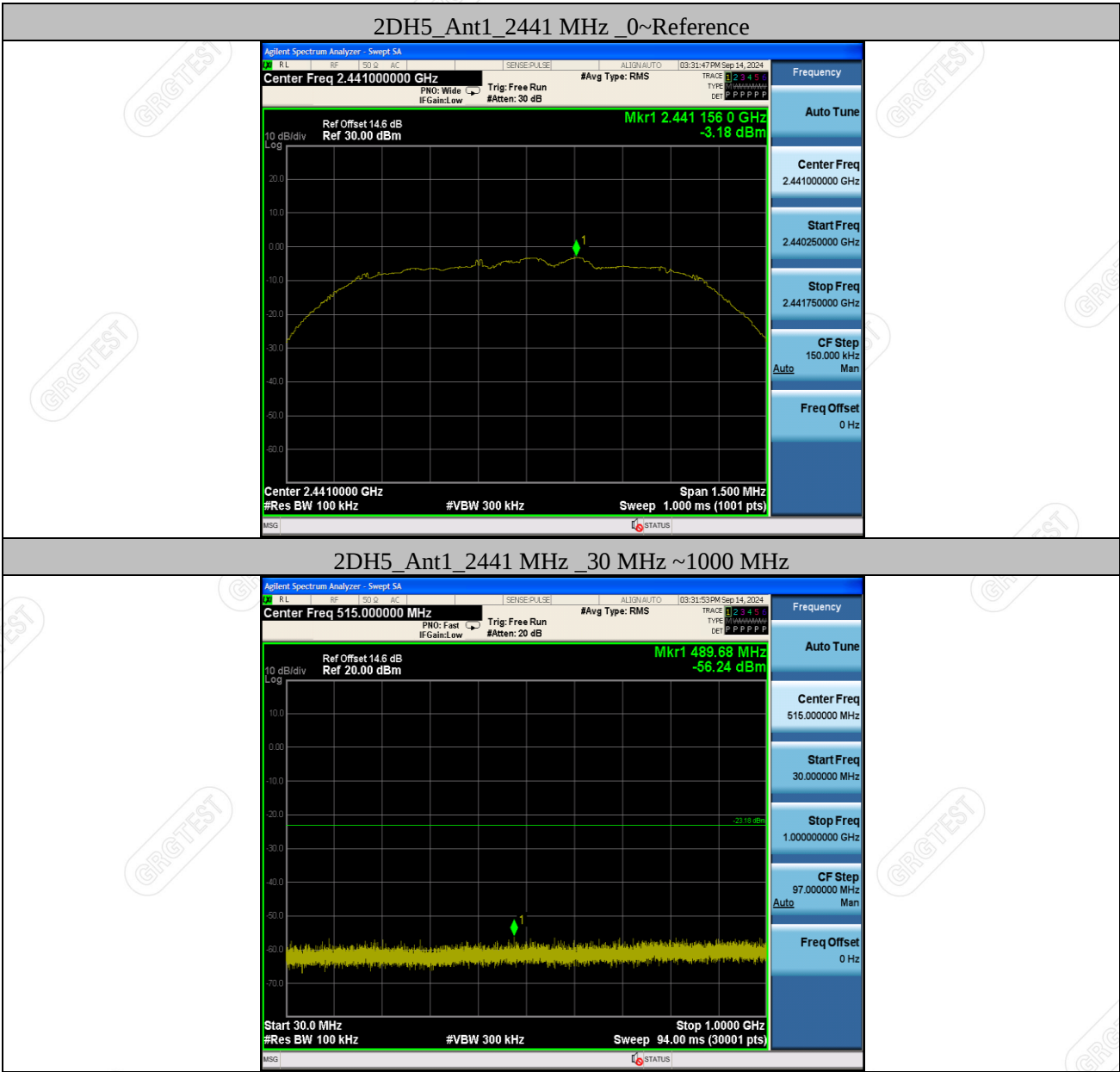
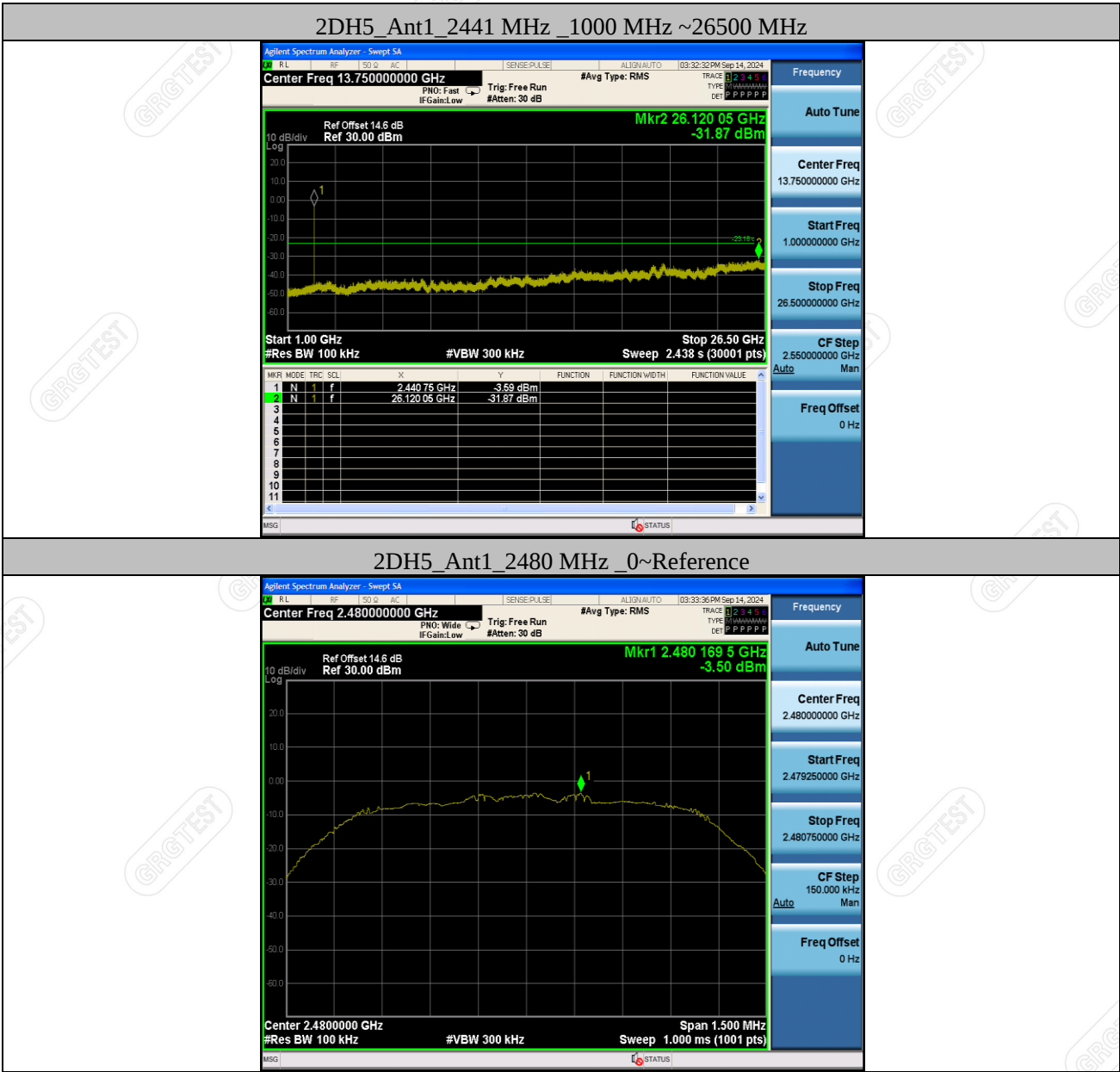
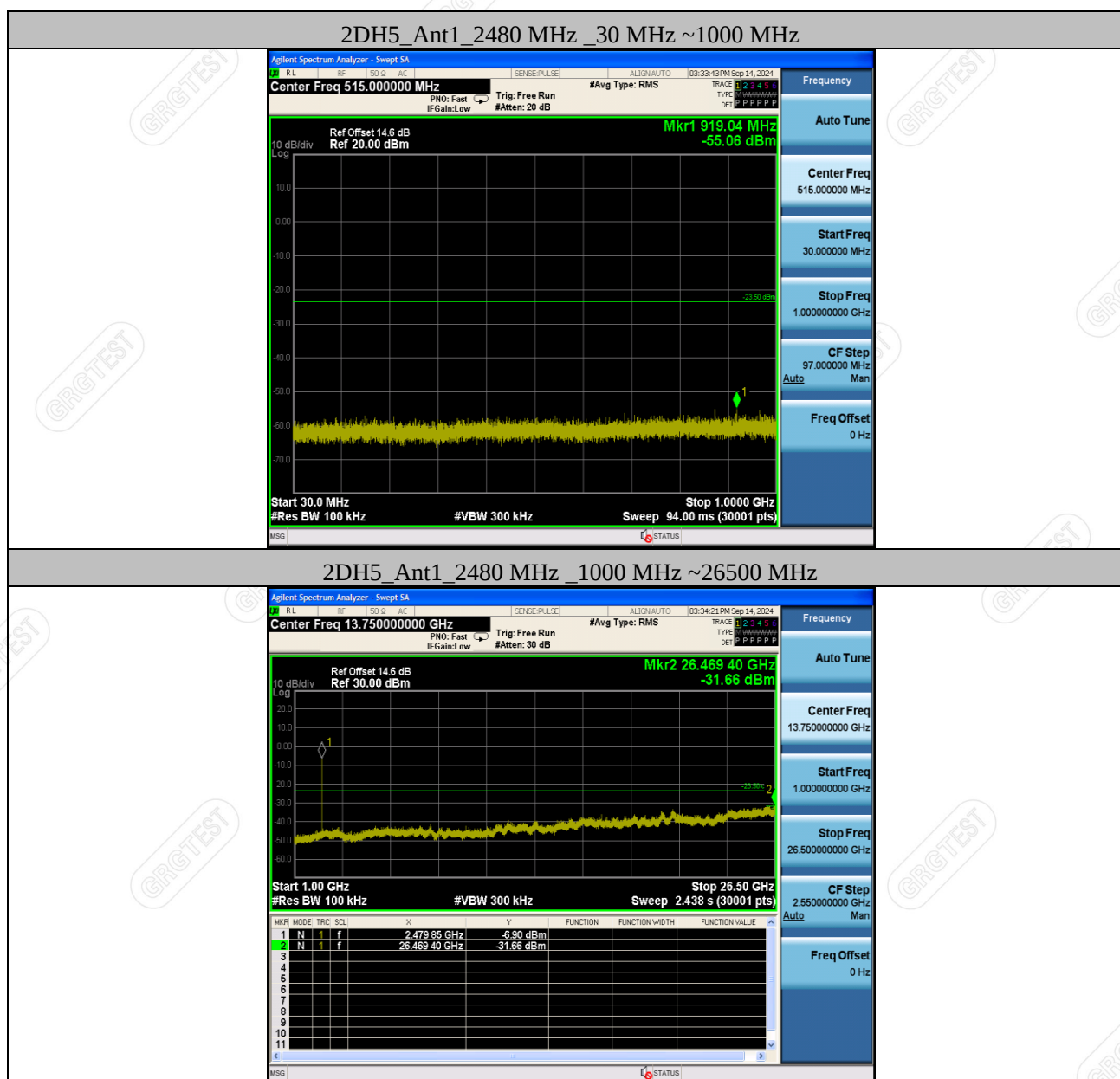
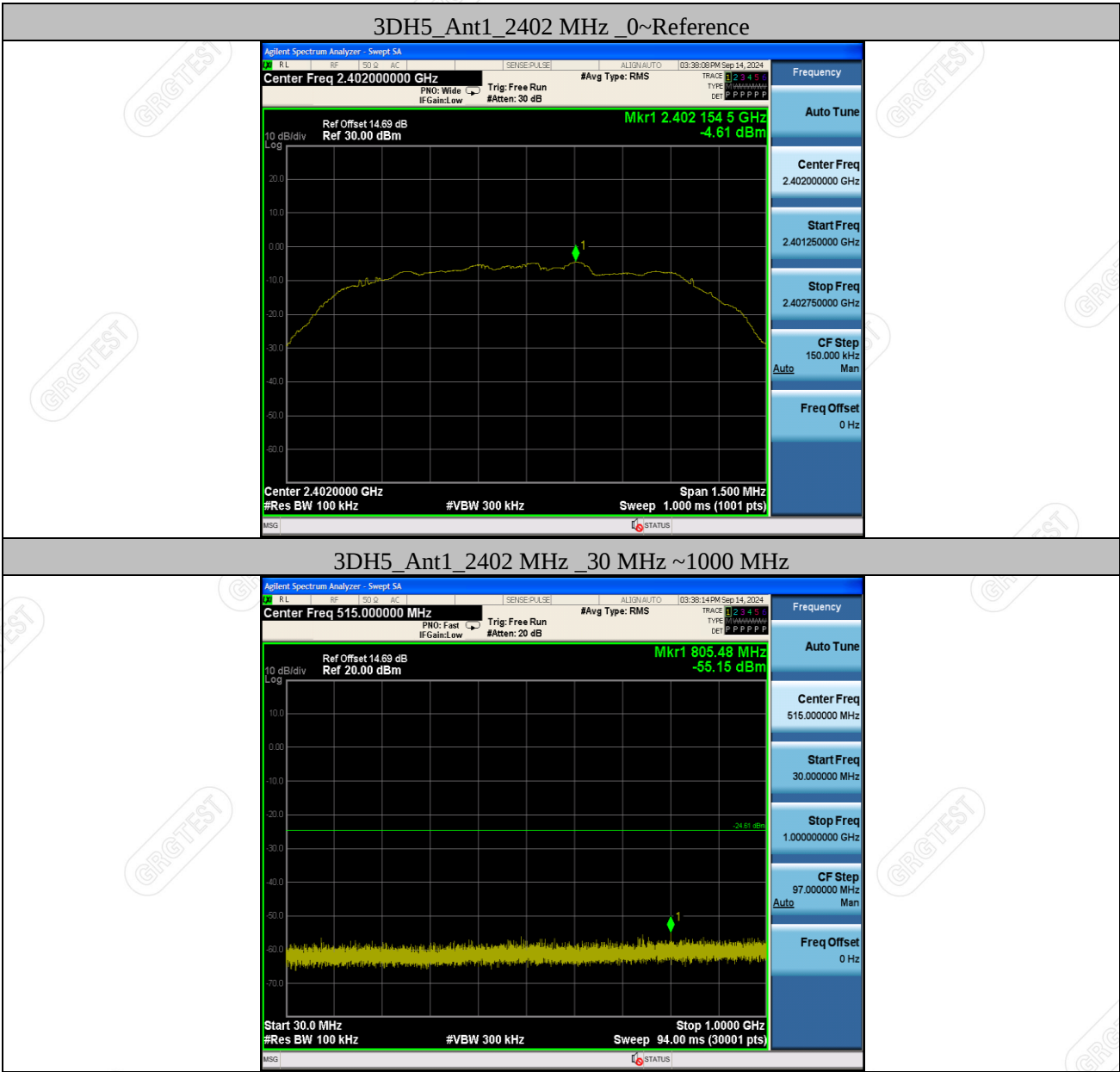


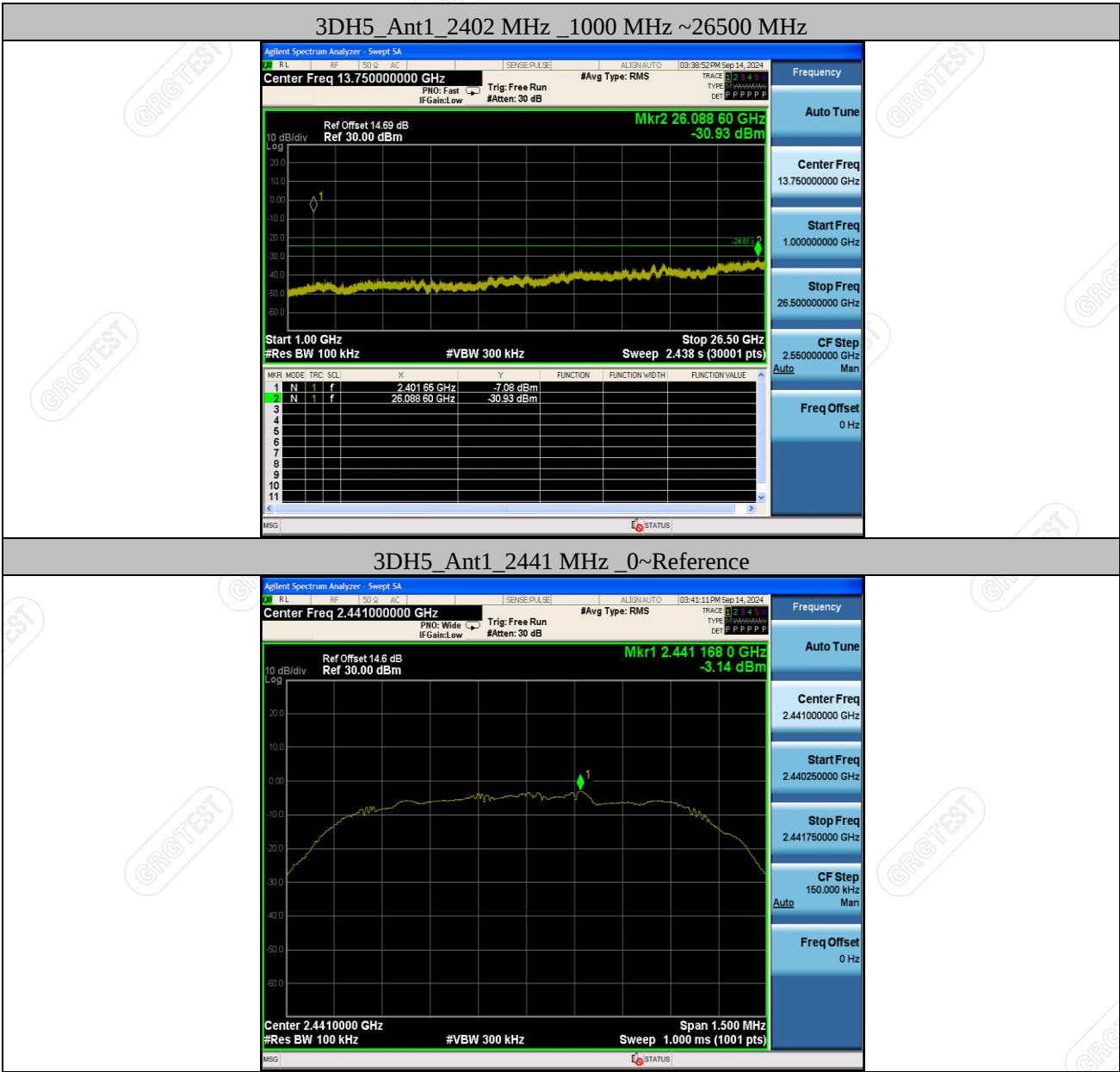


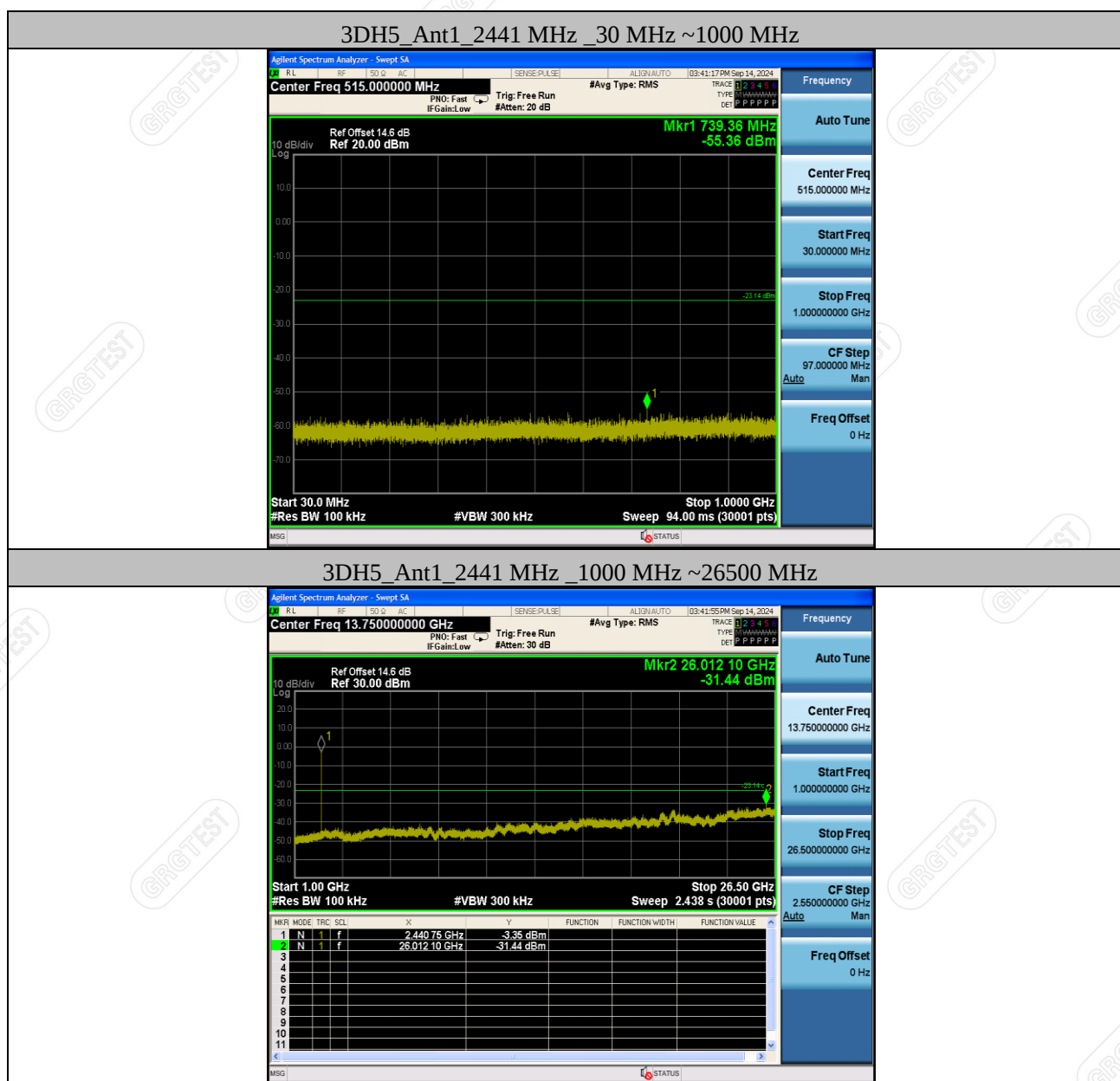


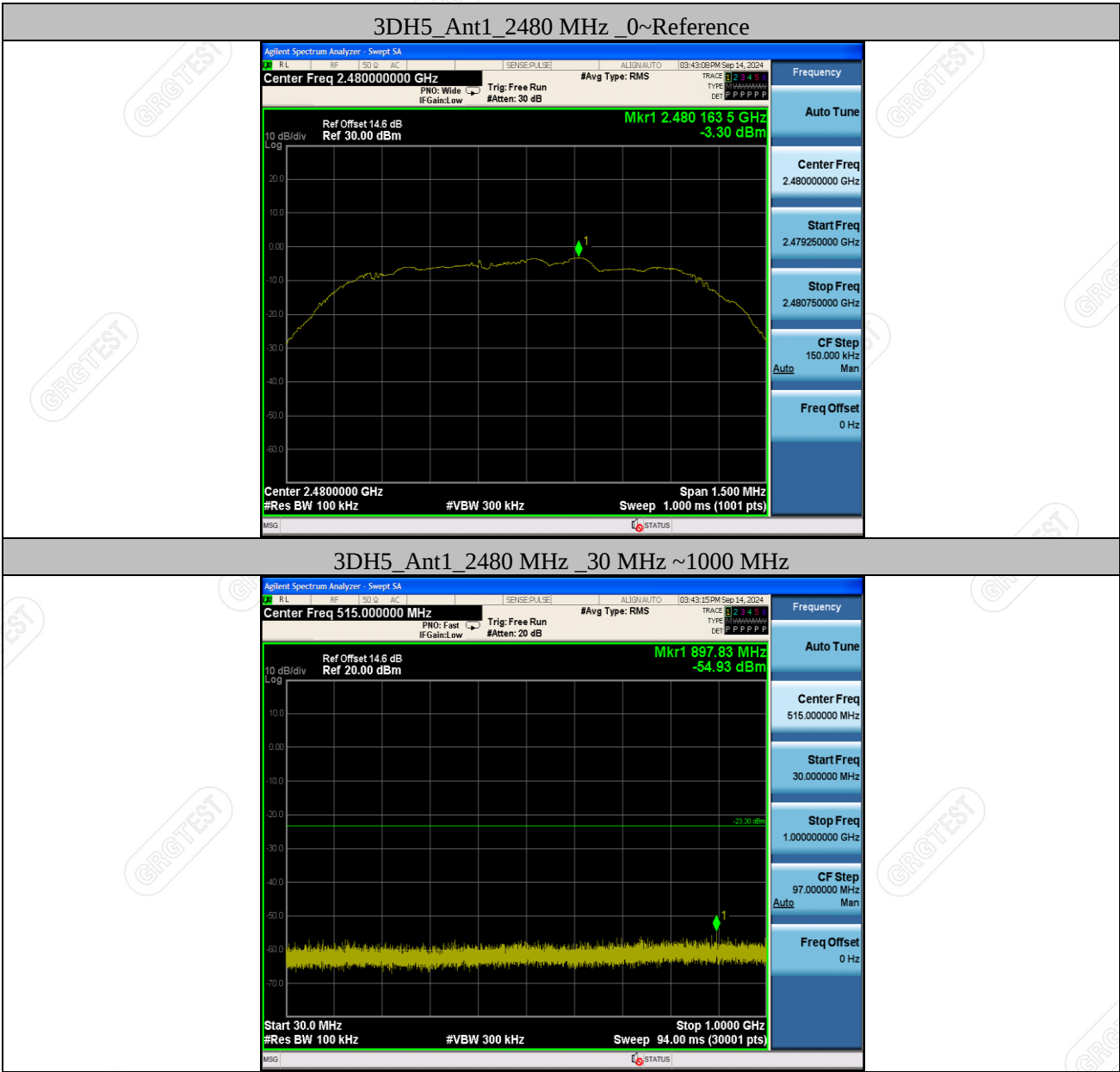


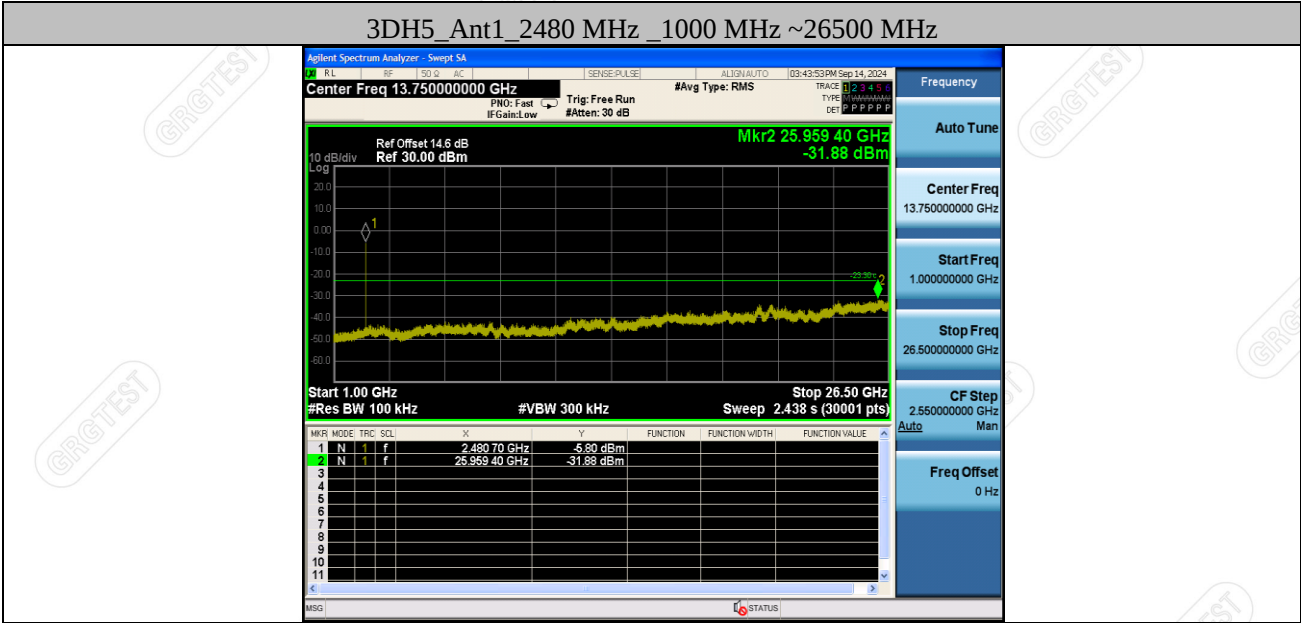












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13. RADIATED SPURIOUS EMISSIONS

13.1 LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak(μ V/m)	Measurement distance(m)	Quasi-peak(dB μ V/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

NOTE:

- (1) The emission limits for the ranges 9-90kHz and 110-490kHz are based on measurements employing a linear average detector.
- (2) The lower limit shall apply at the transition frequencies.
- (3) Above 18GHz test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dB μ V/m).
The Avg Limit=54+20*log(3/1)=63.54 (dB μ V/m).

13.2 TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Set the EUT transmit continuously with maximum output power.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 ° to 360 °.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Set the EUT transmit continuously with maximum output power.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 4 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1GHz to 18GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Set the EUT transmit continuously with maximum output power.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 ° to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 ° to 360 ° and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18GHz**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Set the EUT transmit continuously with maximum output power.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

NOTE:

- (a). The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), RBW=300Hz(for Peak&AVG). the frequency from 150kHz to 30MHz, Set RBW=9kHz, RBW=9kHz, (for QP Detector).
- (b). The frequency from 30MHz to 1GHz, Set RBW=120kHz, RBW=300kHz, (for QP Detector).

(c).The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.

(d).The frequency above 1GHz, for Avg detector: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. if the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.

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13.3 TEST SETUP

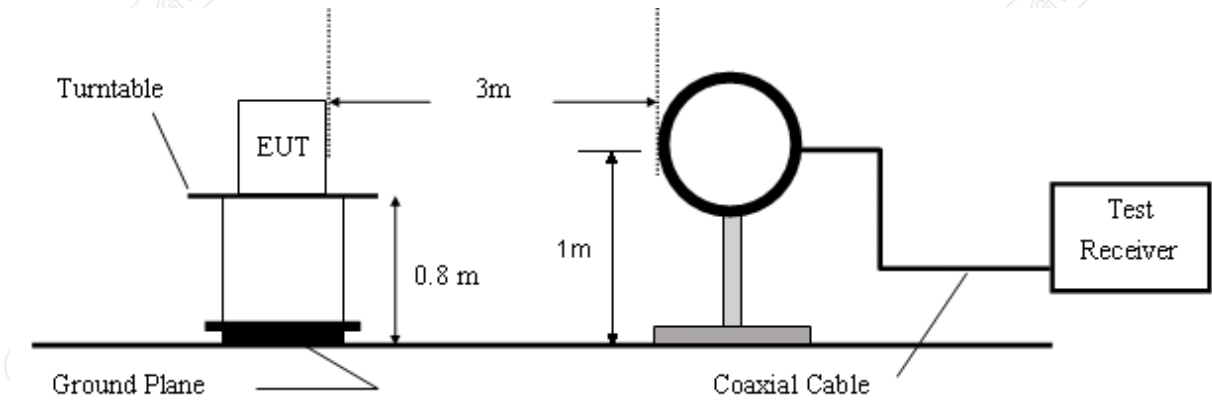


Figure 1. 9kHz to 30MHz radiated emissions test configuration

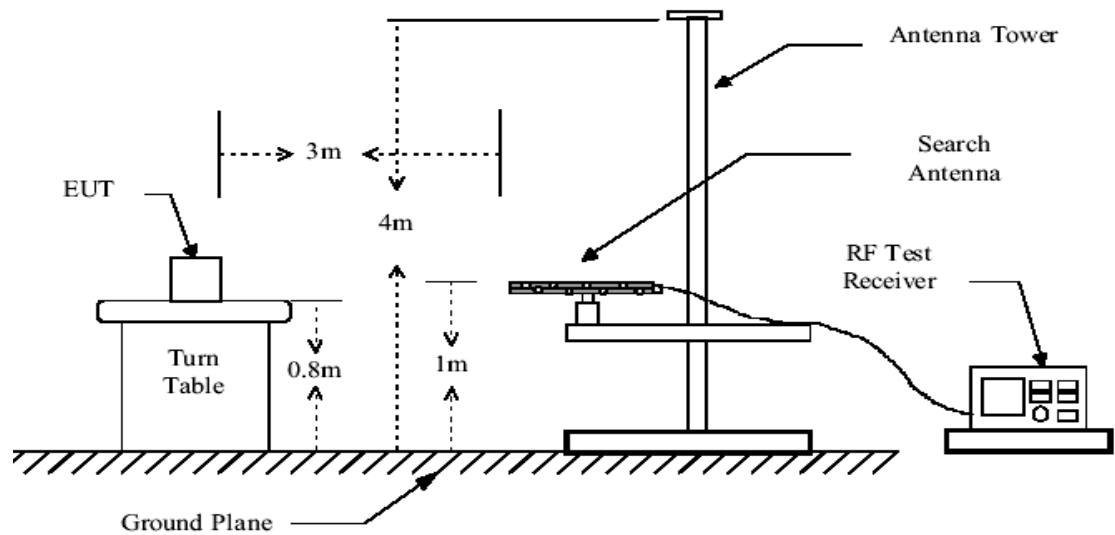


Figure 2. 30MHz to 1GHz radiated emissions test configuration

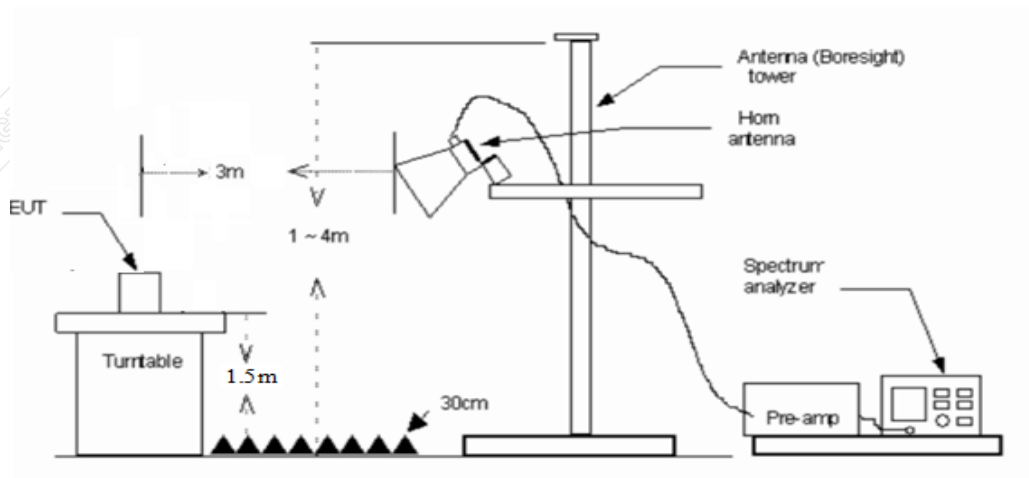


Figure 3. 1GHz to 18GHz radiated emissions test configuration

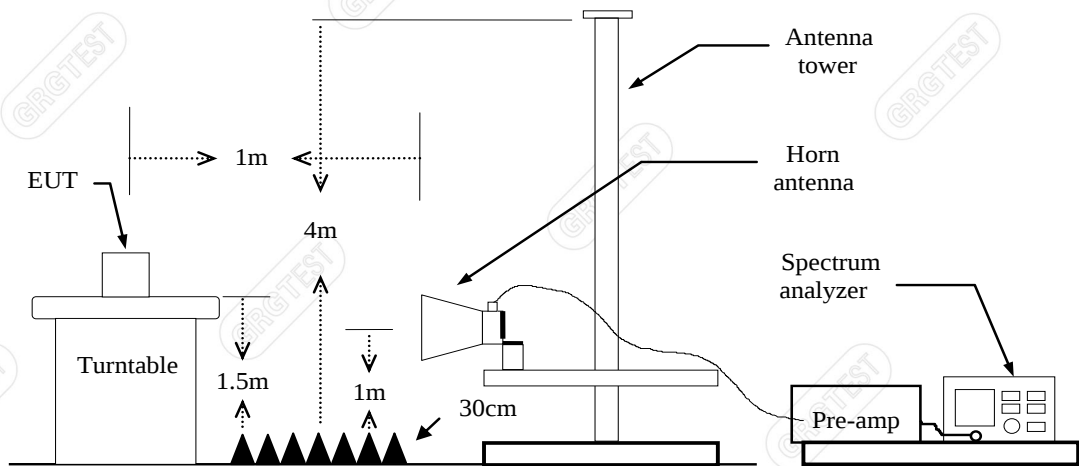


Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

13.4 DATA SAMPLE

30MHz to 1GHz

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	66.85	31.09	-35.76	40.00	8.91	PK	200	351	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	-31.57	71.28	39.71	46.00	6.29	100	196	Horizontal

- Frequency (MHz)

= Emission frequency in MHz
- Reading (dBμV/m)

= Uncorrected Analyzer / Receiver reading
- Factor (dB)

= Antenna factor + Cable loss – Amplifier gain
- Level (dBμV/m)

= Reading (dBμV/m) + Factor (dB)
- Limit (dBμV/m)

= Limit stated in standard
- Margin (dB)

= Limit (dBμV/m) – Level (dBμV/m)
- Polarity

= Antenna polarization
- Peak

= Peak Reading
- QP

= Quasi-peak Reading

1GHz-18GHz

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Above 18GHz

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	-12.11	83.54	41.16	100	211	Vertical	Peak
xxx	xxxx	43.99	31.88	-12.11	63.54	31.66	100	211	Vertical	AVG

Frequency (MHz)	= Emission frequency in MHz
Reading (dBμV/m)	= Uncorrected Analyzer / Receiver reading
Factor (dB)	= Antenna factor + Cable loss – Amplifier gain
Level (dBμV/m)	= Reading (dBμV/m) + Factor (dB)
Limit (dBμV/m)	= Limit stated in standard
Margin (dB)	= Limit (dBμV/m) – Level (dBμV/m)
Polarity	= Antenna polarization
Peak	= Peak Reading
AVG	= Average Reading

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13.5 TEST RESULTS

Below 1GHz

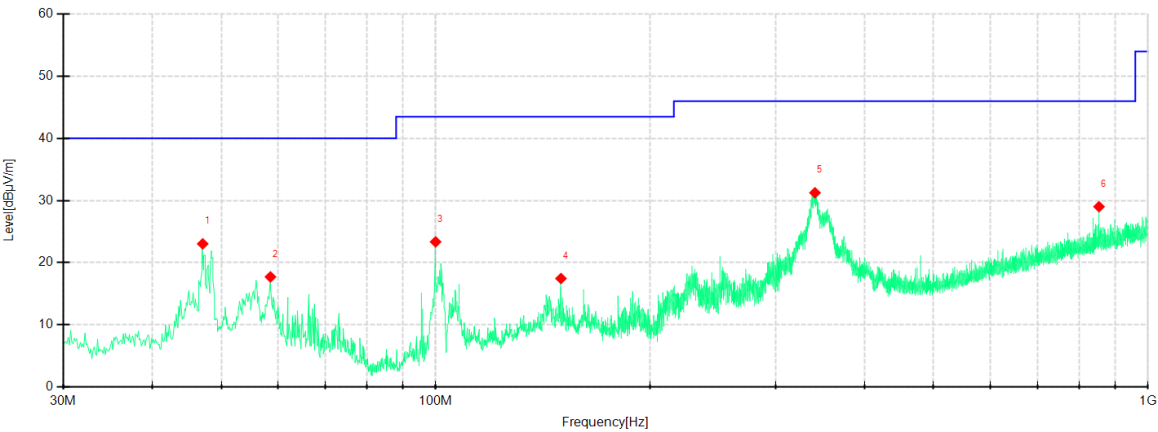
All models were pretested and only the worst modes and channels were recorded in this report (3DH5-2441MHz).

The chart below shows the highest readings taken from the final data.

Mode: 3DH5
Middle Frequency (2441MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V
Probe : Horizontal

Test Graph

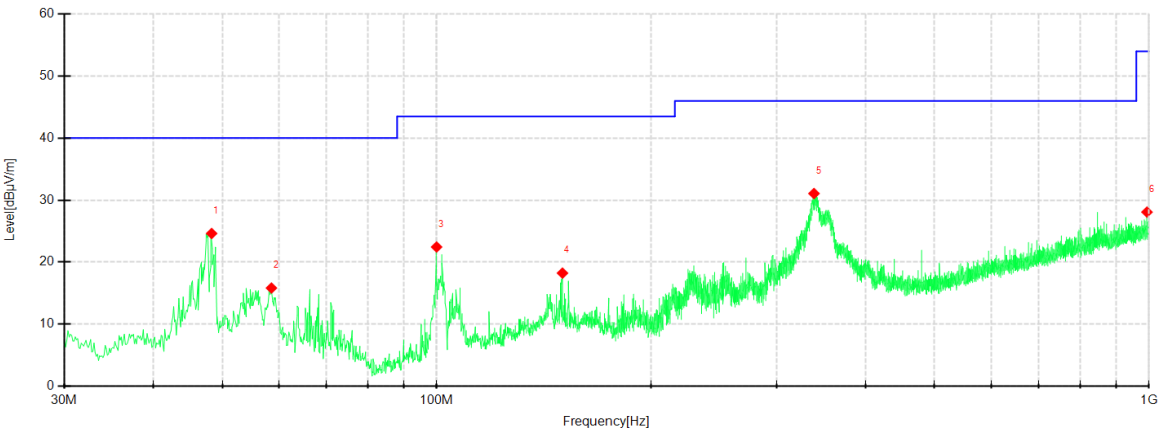


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	47.0984	52.00	23.03	-28.97	40.00	16.97	PK	100	137	Horizontal
2	58.6186	47.13	17.71	-29.42	40.00	22.29	PK	100	300	Horizontal
3	99.9700	55.31	23.35	-31.96	43.50	20.15	PK	200	263	Horizontal
4	149.9312	45.61	17.45	-28.16	43.50	26.05	PK	200	18	Horizontal
5	340.8026	57.30	31.25	-26.05	46.00	14.75	PK	200	238	Horizontal
6	853.6330	45.18	29.01	-16.17	46.00	16.99	PK	200	58	Horizontal

Mode: 3DH5
Middle Frequency (2441MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V
Probe : Vertical

Test Graph



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	48.3110	53.53	24.62	-28.91	40.00	15.38	PK	200	241	Vertical
2	58.6186	45.24	15.82	-29.42	40.00	24.18	PK	100	247	Vertical
3	99.9700	54.40	22.44	-31.96	43.50	21.06	PK	100	69	Vertical
4	150.1738	46.39	18.23	-28.16	43.50	25.27	PK	100	106	Vertical
5	338.6198	57.18	31.06	-26.12	46.00	14.94	PK	100	286	Vertical
6	993.5729	42.23	28.07	-14.16	54.00	25.93	PK	100	337	Vertical

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Pre-scan all mode and recorded the worst case results in this report (TX-Middle Channel(3DH5))
- 3 Measuring frequencies from 9kHz to the 1GHz.
- 4 Radiated emissions measured in frequency range from 30MHz to 1GHz were made with an instrument using Peak/Quasi-peak detector mode.
- 5 Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 6 The IF bandwidth of SPA between 30MHz to 1GHz was 120kHz.

1GHz to 18GHz

Mode: DH5
Lowest Frequency (2402MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.0000	50.48	42.20	-8.28	74.00	31.80	100	360	Horizontal
2	1946.8000	48.80	44.93	-3.87	74.00	29.07	200	285	Horizontal
3	2502.2000	48.33	47.85	-0.48	74.00	26.15	100	312	Horizontal
4	4933.5000	49.38	42.72	-6.66	74.00	31.28	100	128	Horizontal
5	6399.0000	49.70	47.64	-2.06	74.00	26.36	100	313	Horizontal
6	10168.5000	39.56	49.12	9.56	74.00	24.88	100	221	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10168.5000	9.56	29.89	39.45	54.00	14.55	100	221	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	51.09	43.11	-7.98	74.00	30.89	100	19	Vertical
2	2501.0000	48.07	47.65	-0.42	74.00	26.35	200	86	Vertical
3	4666.5000	50.05	42.43	-7.62	74.00	31.57	100	182	Vertical
4	5034.0000	48.52	42.63	-5.89	74.00	31.37	100	314	Vertical
5	6399.0000	48.57	46.50	-2.07	74.00	27.50	100	63	Vertical
6	11845.5000	38.86	50.02	11.16	74.00	23.98	200	209	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11845.5000	11.16	27.83	38.99	54.00	15.01	200	209	Vertical

Mode: DH5
Middle Frequency (2441MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1417.6000	48.90	40.86	-8.04	74.00	33.14	100	33	Horizontal
2	1599.8000	49.97	41.69	-8.28	74.00	32.31	100	20	Horizontal
3	2496.0000	48.22	47.81	-0.41	74.00	26.19	200	20	Horizontal
4	6399.0000	47.60	45.54	-2.06	74.00	28.46	100	62	Horizontal
5	9303.0000	41.66	49.00	7.34	74.00	25.00	200	341	Horizontal
6	14151.0000	35.98	49.42	13.44	74.00	24.58	100	221	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9303.0000	7.34	33.60	40.94	54.00	13.06	200	341	Horizontal
2	14151.0000	13.44	26.89	40.33	54.00	13.67	100	221	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	50.24	42.26	-7.98	74.00	31.74	200	20	Vertical
2	2501.8000	47.76	47.32	-0.44	74.00	26.68	100	75	Vertical
3	2994.0000	48.02	47.59	-0.43	74.00	26.41	200	20	Vertical
4	3609.0000	52.11	39.78	-12.33	74.00	34.22	100	64	Vertical
5	6399.0000	48.32	46.25	-2.07	74.00	27.75	200	338	Vertical
6	11829.0000	38.31	49.43	11.12	74.00	24.57	100	196	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11829.0000	11.12	28.73	39.85	54.00	14.15	100	196	Vertical

Mode: DH5
Highest Frequency (2480MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	50.73	42.45	-8.28	74.00	31.55	200	252	Horizontal
2	1918.6000	48.02	44.32	-3.70	74.00	29.68	200	19	Horizontal
3	2496.4000	47.64	47.24	-0.40	74.00	26.76	100	220	Horizontal
4	5472.0000	48.23	42.82	-5.41	74.00	31.18	200	131	Horizontal
5	6399.0000	48.33	46.27	-2.06	74.00	27.73	100	52	Horizontal
6	14149.5000	35.75	49.20	13.45	74.00	24.80	200	3	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	14149.5000	13.45	27.12	40.57	54.00	13.43	200	3	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	50.50	42.52	-7.98	74.00	31.48	100	21	Vertical
2	2505.6000	47.78	47.17	-0.61	74.00	26.83	100	137	Vertical
3	3937.5000	50.63	39.97	-10.66	74.00	34.03	200	275	Vertical
4	5041.5000	49.48	43.66	-5.82	74.00	30.34	200	300	Vertical
5	6399.0000	47.79	45.72	-2.07	74.00	28.28	200	313	Vertical
6	13815.0000	36.53	49.66	13.13	74.00	24.34	200	66	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13815.0000	13.13	26.41	39.54	54.00	14.46	200	66	Vertical

Mode: 2DH5
Lowest Frequency (2402MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1441.6000	48.65	40.73	-7.92	74.00	33.27	200	20	Horizontal
2	1906.4000	48.40	44.78	-3.62	74.00	29.22	200	234	Horizontal
3	2497.8000	47.60	47.21	-0.39	74.00	26.79	100	302	Horizontal
4	4408.5000	51.18	42.34	-8.84	74.00	31.66	200	341	Horizontal
5	6399.0000	48.28	46.22	-2.06	74.00	27.78	100	60	Horizontal
6	15045.0000	37.81	49.92	12.11	74.00	24.08	200	224	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	15045.0000	12.11	26.59	38.70	54.00	15.30	200	224	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1313.8000	48.35	40.33	-8.02	74.00	33.67	200	214	Vertical
2	1600.2000	49.36	41.38	-7.98	74.00	32.62	200	46	Vertical
3	2498.0000	47.39	46.97	-0.42	74.00	27.03	100	325	Vertical
4	4408.5000	50.74	41.89	-8.85	74.00	32.11	100	339	Vertical
5	6969.0000	45.87	46.09	0.22	74.00	27.91	100	246	Vertical
6	15075.0000	37.70	50.21	12.51	74.00	23.79	100	166	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	15075.0000	12.51	26.68	39.19	54.00	14.81	100	166	Vertical

Mode: 2DH5
Middle Frequency (2441MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.0000	50.34	42.06	-8.28	74.00	31.94	100	20	Horizontal
2	1899.4000	48.46	44.86	-3.60	74.00	29.14	100	126	Horizontal
3	2493.4000	48.00	47.57	-0.43	74.00	26.43	100	257	Horizontal
4	4408.5000	50.90	42.06	-8.84	74.00	31.94	100	314	Horizontal
5	6399.0000	47.95	45.89	-2.06	74.00	28.11	200	328	Horizontal
6	10575.0000	40.51	49.83	9.32	74.00	24.17	100	275	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10575.0000	9.32	30.56	39.88	54.00	14.12	100	275	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	49.41	41.43	-7.98	74.00	32.57	100	46	Vertical
2	2501.8000	47.41	46.97	-0.44	74.00	27.03	200	315	Vertical
3	4408.5000	50.51	41.66	-8.85	74.00	32.34	200	341	Vertical
4	5109.0000	48.63	42.55	-6.08	74.00	31.45	100	139	Vertical
5	6399.0000	48.10	46.03	-2.07	74.00	27.97	200	48	Vertical
6	13522.5000	36.50	49.71	13.21	74.00	24.29	100	179	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13522.5000	13.21	26.67	39.88	54.00	14.12	100	179	Vertical

Mode: 2DH5
Highest Frequency (2480MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1149.8000	48.50	39.11	-9.39	74.00	34.89	200	270	Horizontal
2	1599.8000	50.15	41.87	-8.28	74.00	32.13	100	20	Horizontal
3	2497.6000	47.82	47.42	-0.40	74.00	26.58	100	46	Horizontal
4	4914.0000	49.01	42.23	-6.78	74.00	31.77	200	61	Horizontal
5	6399.0000	49.30	47.24	-2.06	74.00	26.76	100	315	Horizontal
6	10180.5000	39.70	49.19	9.49	74.00	24.81	200	20	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10180.5000	9.49	30.15	39.64	54.00	14.36	200	20	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	48.94	40.96	-7.98	74.00	33.04	100	19	Vertical
2	2505.2000	48.00	47.41	-0.59	74.00	26.59	200	125	Vertical
3	2976.2000	47.91	47.15	-0.76	74.00	26.85	200	230	Vertical
4	4408.5000	50.36	41.51	-8.85	74.00	32.49	100	341	Vertical
5	6399.0000	49.64	47.57	-2.07	74.00	26.43	200	314	Vertical
6	13084.5000	37.14	49.87	12.73	74.00	24.13	200	209	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13110.2475	12.73	23.55	36.28	54.00	17.72	190	187.3	Vertical

Mode: 3DH5
Lowest Frequency (2402MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1212.4000	48.36	39.55	-8.81	74.00	34.45	100	221	Horizontal
2	1599.8000	49.64	41.36	-8.28	74.00	32.64	200	340	Horizontal
3	2501.0000	47.39	46.97	-0.42	74.00	27.03	100	62	Horizontal
4	4408.5000	50.42	41.58	-8.84	74.00	32.42	100	336	Horizontal
5	7198.5000	44.29	45.39	1.10	74.00	28.61	100	230	Horizontal
6	11796.0000	38.08	49.08	11.00	74.00	24.92	100	230	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11796.0000	11.00	26.75	37.75	54.00	16.25	100	230	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.2000	49.63	41.65	-7.98	74.00	32.35	100	38	Vertical
2	1900.0000	48.91	45.23	-3.68	74.00	28.77	100	339	Vertical
3	2502.8000	47.34	46.85	-0.49	74.00	27.15	100	65	Vertical
4	4761.0000	51.00	43.58	-7.42	74.00	30.42	100	339	Vertical
5	6399.0000	47.04	44.97	-2.07	74.00	29.03	100	312	Vertical
6	13539.0000	36.14	49.29	13.15	74.00	24.71	100	21	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13539.0000	13.15	24.69	37.84	54.00	16.16	100	21	Vertical

Mode: 3DH5
Middle Frequency (2441MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.8000	49.22	40.94	-8.28	74.00	33.06	100	340	Horizontal
2	1906.8000	48.22	44.60	-3.62	74.00	29.40	100	90	Horizontal
3	2492.8000	47.64	47.20	-0.44	74.00	26.80	100	38	Horizontal
4	4408.5000	50.19	41.35	-8.84	74.00	32.65	200	343	Horizontal
5	6399.0000	48.82	46.76	-2.06	74.00	27.24	100	317	Horizontal
6	11634.0000	38.21	49.25	11.04	74.00	24.75	100	87	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11634.0000	11.04	26.14	37.18	54.00	16.82	100	87	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1327.4000	47.39	39.31	-8.08	74.00	34.69	200	341	Vertical
2	1599.8000	48.91	40.93	-7.98	74.00	33.07	100	0	Vertical
3	2499.4000	46.71	46.33	-0.38	74.00	27.67	200	341	Vertical
4	4408.5000	49.83	40.98	-8.85	74.00	33.02	200	136	Vertical
5	6399.0000	47.79	45.72	-2.07	74.00	28.28	200	109	Vertical
6	13509.0000	36.31	49.56	13.25	74.00	24.44	100	72	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13509.0000	13.25	24.37	37.62	54.00	16.38	100	72	Vertical

Mode: 3DH5
Highest Frequency (2480MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.6000	49.65	41.37	-8.28	74.00	32.63	200	176	Horizontal
2	2195.8000	49.07	45.27	-3.80	74.00	28.73	200	299	Horizontal
3	2504.8000	47.46	46.85	-0.61	74.00	27.15	200	269	Horizontal
4	4408.5000	50.60	41.76	-8.84	74.00	32.24	100	144	Horizontal
5	7278.0000	44.85	46.18	1.33	74.00	27.82	200	304	Horizontal
6	11826.0000	38.44	49.40	10.96	74.00	24.60	200	90	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11826.0000	10.96	26.57	37.53	54.00	16.47	200	90	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.0000	50.80	42.82	-7.98	74.00	31.18	100	126	Vertical
2	2504.4000	49.03	48.48	-0.55	74.00	25.52	200	206	Vertical
3	3147.0000	54.38	41.01	-13.37	74.00	32.99	200	166	Vertical
4	4932.0000	48.98	42.47	-6.51	74.00	31.53	100	116	Vertical
5	6399.0000	48.82	46.75	-2.07	74.00	27.25	100	128	Vertical
6	13270.5000	35.97	49.27	13.30	74.00	24.73	200	274	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2504.4000	-0.55	39.76	39.21	54.00	14.79	200	206	Vertical
2	13270.5000	13.30	23.86	37.16	54.00	16.84	200	274	Vertical

Remark:

- 1 Measuring frequencies from 1 GHz to 18GHz harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum setting:
 - a. Peak Setting 1GHz–26.5GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GHz–26.5GHz, Set RBW=1MHz, if the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. if the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.

Test result: The unit does meet the requirements.

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18GHz to 26.5GHz

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.

All models were pretested and only the worst modes were recorded in this report(3DH5).

Mode: 3DH5
Lowest Frequency (2402MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18537.6250	49.06	32.78	23.24	-16.28	74.00	50.76	100	319	Horizontal
2	19266.0750	49.29	33.28	23.74	-16.01	74.00	50.26	100	279	Horizontal
3	20043.8250	48.24	32.60	23.06	-15.64	74.00	50.94	100	319	Horizontal
4	21918.5000	48.23	33.23	23.69	-15.00	74.00	50.31	100	20	Horizontal
5	22740.0250	46.77	32.25	22.71	-14.52	74.00	51.29	100	20	Horizontal
6	24823.8000	45.79	32.26	22.72	-13.53	74.00	51.28	100	179	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18549.1000	49.52	33.31	23.77	-16.21	74.00	50.23	100	58	Vertical
2	19393.1500	49.19	33.70	24.16	-15.49	74.00	49.84	100	239	Vertical
3	22156.9250	49.13	34.72	25.18	-14.41	74.00	48.82	100	239	Vertical
4	23073.6500	46.40	32.81	23.27	-13.59	74.00	50.73	100	178	Vertical
5	24576.8750	45.59	32.60	23.06	-12.99	74.00	50.94	100	78	Vertical
6	26003.1750	46.24	32.90	23.36	-13.34	74.00	50.64	100	140	Vertical

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Mode: 3DH5
Middle Frequency (2441MHz)
Environment: 26.3°C/56%RH/101.0kPa
Test Engineer: Qin Tingting

Date: 2024-10-08
Test Voltage: DC 13.2V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18408.4250	49.11	32.57	23.03	-16.54	74.00	50.97	100	134	Horizontal
2	19229.5250	49.08	33.07	23.53	-16.01	74.00	50.47	100	270	Horizontal
3	20929.1000	48.27	33.17	23.63	-15.10	74.00	50.37	100	181	Horizontal
4	22019.2250	49.94	34.86	25.32	-15.08	74.00	48.68	100	270	Horizontal
5	23187.5500	46.30	32.27	22.73	-14.03	74.00	51.27	100	53	Horizontal
6	24744.3250	45.07	31.58	22.04	-13.49	74.00	51.96	100	200	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18558.0250	49.50	33.30	23.76	-16.20	74.00	50.24	100	20	Vertical
2	19445.0000	48.59	33.11	23.57	-15.48	74.00	50.43	100	321	Vertical
3	21357.5000	48.52	33.99	24.45	-14.53	74.00	49.55	100	160	Vertical
4	22304.8250	47.41	33.11	23.57	-14.30	74.00	50.43	100	81	Vertical
5	24531.8250	45.81	32.80	23.26	-13.01	74.00	50.74	100	220	Vertical
6	26230.5500	45.20	31.95	22.41	-13.25	74.00	51.59	100	20	Vertical

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Mode: 3DH5
 Highest Frequency (2480MHz)
 Environment: 26.3°C/56%RH/101.0kPa
 Test Engineer: Qin Tingting

Date: 2024-10-08
 Test Voltage: DC 13.2V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18310.2500	49.31	32.57	23.03	-16.74	74.00	50.97	100	19	Horizontal
2	19240.1500	50.46	34.45	24.91	-16.01	74.00	49.09	100	200	Horizontal
3	21301.8250	48.83	33.88	24.34	-14.95	74.00	49.66	100	140	Horizontal
4	22012.0000	48.47	33.40	23.86	-15.07	74.00	50.14	100	140	Horizontal
5	23318.0250	47.27	33.26	23.72	-14.01	74.00	50.28	100	358	Horizontal
6	24790.6500	45.54	32.03	22.49	-13.51	74.00	51.51	100	240	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18919.2750	48.94	33.08	23.54	-15.86	74.00	50.46	100	281	Vertical
2	20108.8500	48.43	33.35	23.81	-15.08	74.00	50.19	100	339	Vertical
3	22056.2000	48.34	33.82	24.28	-14.52	74.00	49.72	100	301	Vertical
4	22743.0000	47.27	33.45	23.91	-13.82	74.00	50.09	100	160	Vertical
5	24767.7000	45.25	32.35	22.81	-12.90	74.00	51.19	100	339	Vertical
6	25819.5750	44.95	31.72	22.18	-13.23	74.00	51.82	100	339	Vertical

Remark:

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20*log(1/3)

14. RESTRICTED BANDS OF OPERATION

14.1 LIMITS

Section 15.247(d) In addition, Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

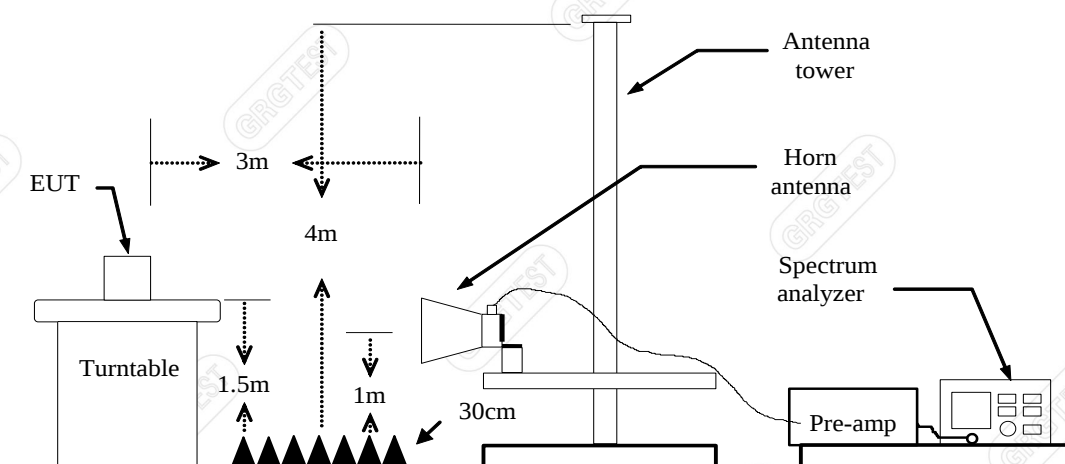
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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	2655 - 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	
13.36 - 13.41			

Frequency (MHz)	Quasi-peak($\mu\text{V}/\text{m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V}/\text{m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

14.2 TEST PROCEDURES

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
 - b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO. Where T is defined in section 2.8.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

14.3 TEST SETUP



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14.4 TEST RESULTS

DH5

Lowest Channel

Frequency 2402MHz

Environment: 26.3°C/56%RH/101.0kPa

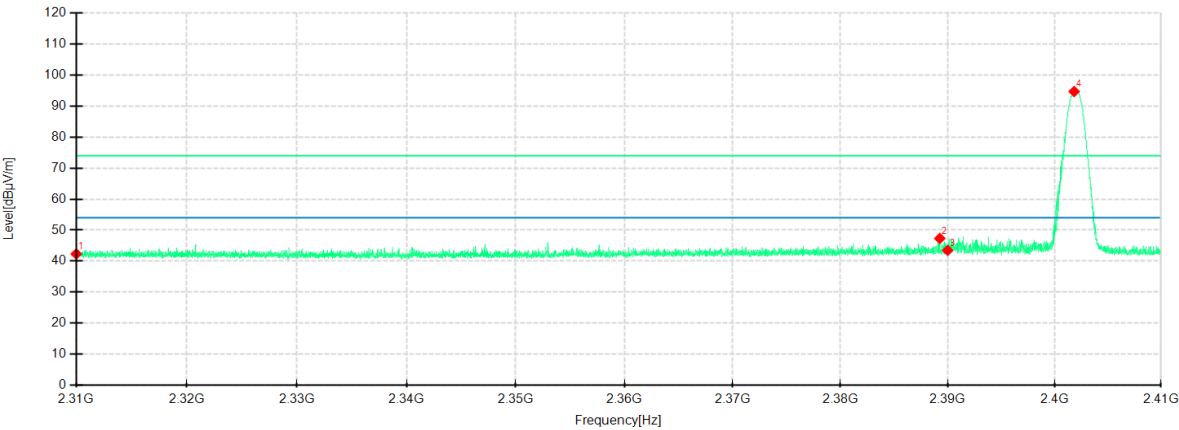
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 13.2V

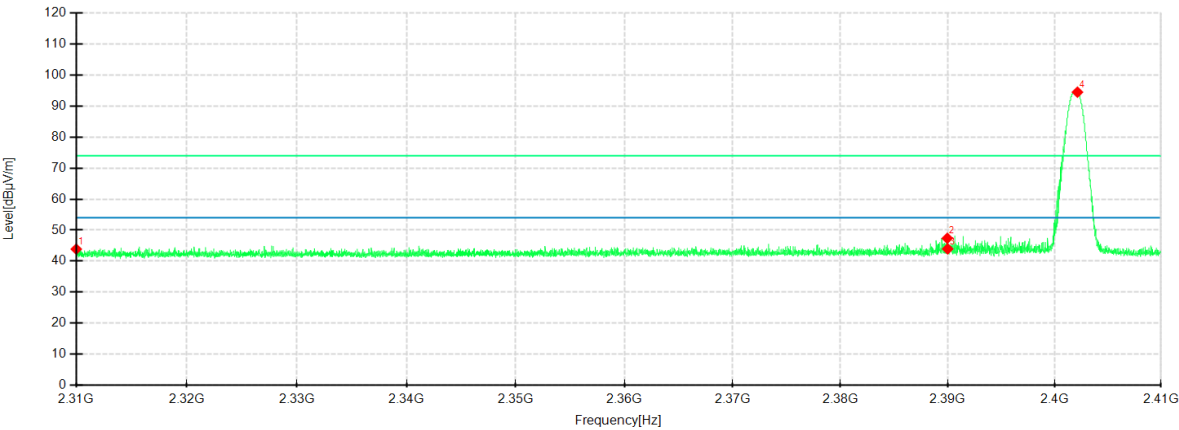
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	47.79	42.31	-5.48	74.00	31.69	200	300	Horizontal	/
2	2389.2625	52.72	47.32	-5.40	74.00	26.68	100	272	Horizontal	/
3	2390.0000	48.86	43.47	-5.39	74.00	30.53	200	314	Horizontal	/
4	2401.8375	99.95	94.71	-5.24	74.00	-20.71	200	108	Horizontal	No limit
1	2310.0000	49.20	43.88	-5.32	74.00	30.12	100	27	Vertical	/
2	2389.9625	52.84	47.37	-5.47	74.00	26.63	200	201	Vertical	/
3	2390.0000	49.41	43.94	-5.47	74.00	30.06	200	22	Vertical	/
4	2402.1500	99.96	94.50	-5.46	74.00	-20.50	100	105	Vertical	No limit

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Lowest Channel

Frequency 2402MHz

Environment: 26.3°C/56%RH/101.0kPa

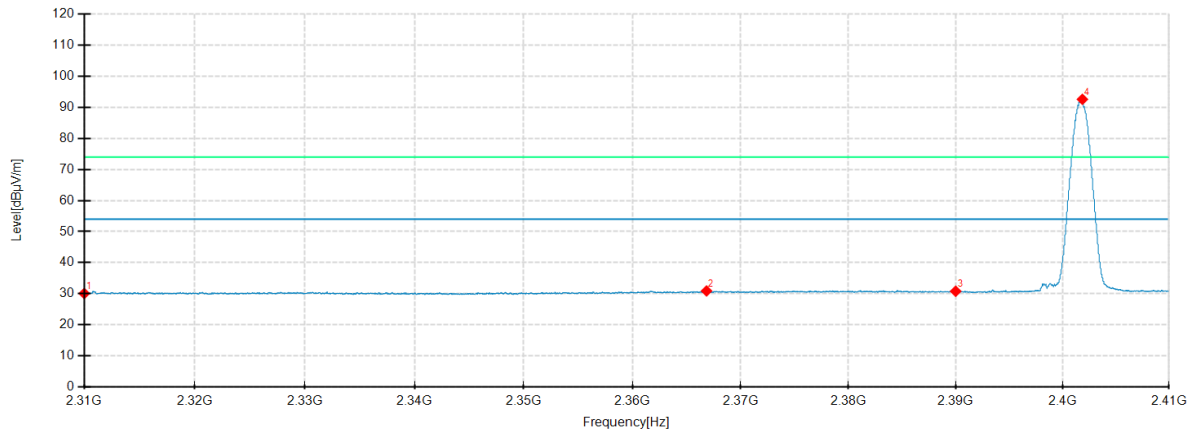
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 13.2V

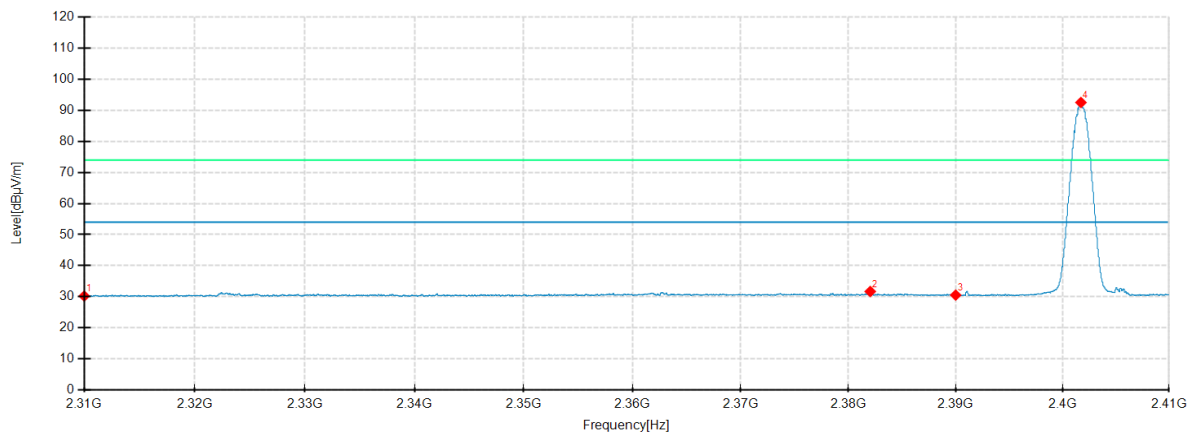
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	35.56	30.08	-5.48	54.00	23.92	200	313	Horizontal	/
2	2366.8500	36.57	30.90	-5.67	54.00	23.10	200	236	Horizontal	/
3	2390.0000	36.18	30.79	-5.39	54.00	23.21	200	300	Horizontal	/
4	2401.8625	97.83	92.59	-5.24	54.00	-38.59	100	84	Horizontal	No limit
1	2310.0000	35.53	30.21	-5.32	54.00	23.79	200	22	Vertical	/
2	2382.0375	37.15	31.68	-5.47	54.00	22.32	100	2	Vertical	/
3	2390.0000	36.00	30.53	-5.47	54.00	23.47	200	22	Vertical	/
4	2401.7250	98.00	92.53	-5.47	54.00	-38.53	100	40	Vertical	No limit

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/56%RH/101.0kPa

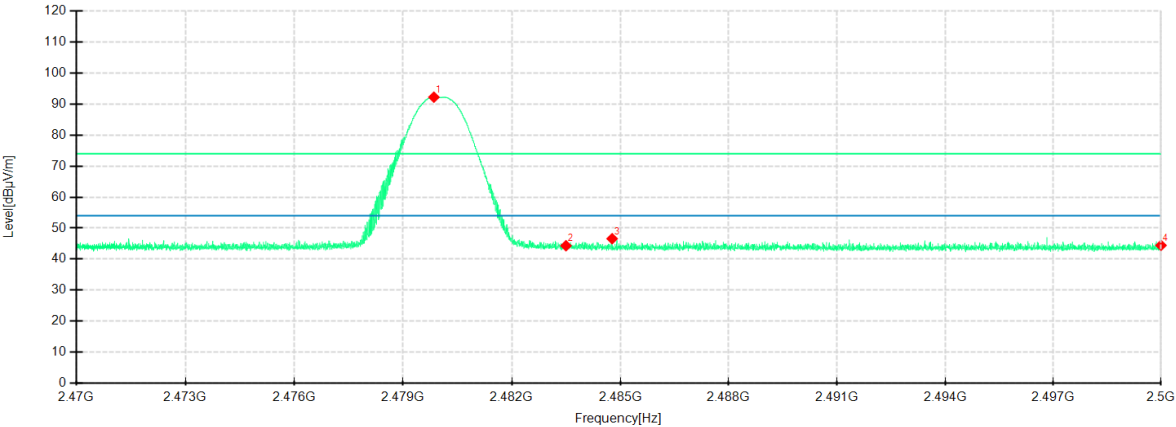
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 13.2V

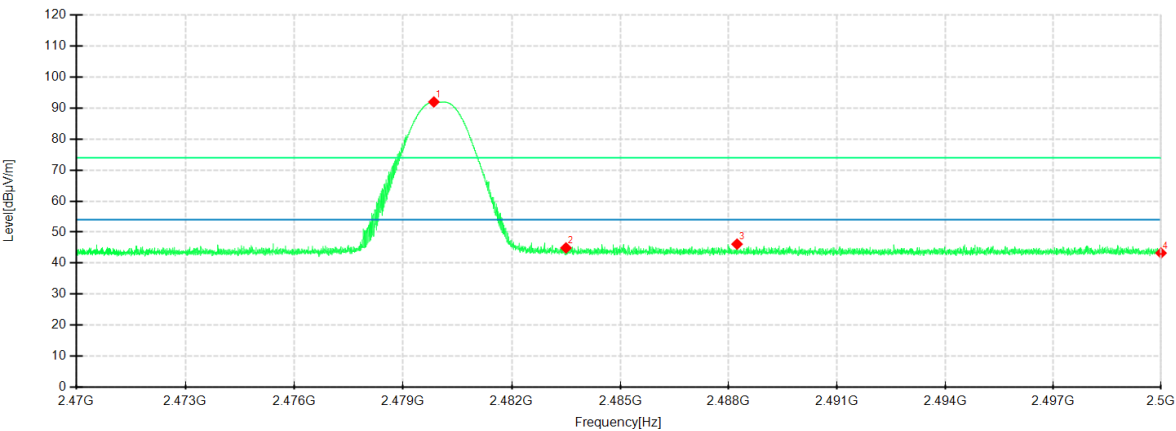
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8513	97.05	92.24	-4.81	74.00	-18.24	200	74	Horizontal	No limit
2	2483.5000	49.16	44.33	-4.83	74.00	29.67	100	246	Horizontal	/
3	2484.7750	51.44	46.59	-4.85	74.00	27.41	200	12	Horizontal	/
4	2500.0000	49.42	44.43	-4.99	74.00	29.57	100	34	Horizontal	/
1	2479.8513	97.08	91.99	-5.09	74.00	-17.99	200	83	Vertical	No limit
2	2483.5000	49.97	44.90	-5.07	74.00	29.10	200	272	Vertical	/
3	2488.2325	51.18	46.13	-5.05	74.00	27.87	200	45	Vertical	/
4	2500.0000	48.23	43.24	-4.99	74.00	30.76	200	32	Vertical	/

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/56%RH/101.0kPa

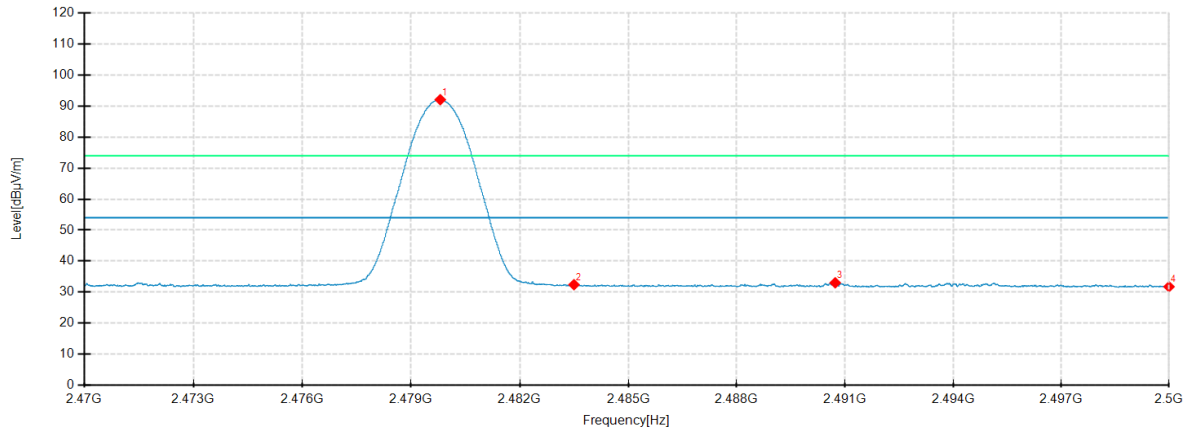
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 13.2V

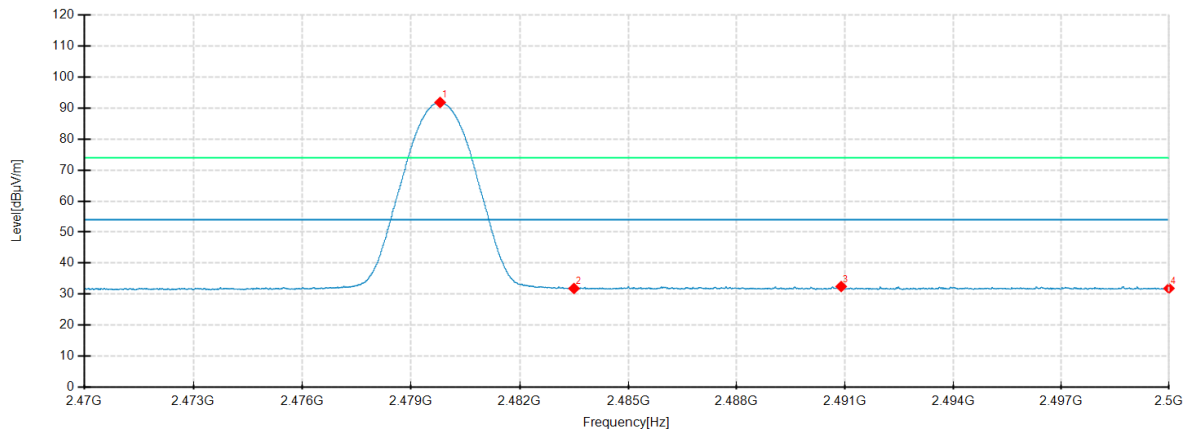
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8063	96.88	92.07	-4.81	54.00	-38.07	200	73	Horizontal	No limit
2	2483.5000	37.24	32.41	-4.83	54.00	21.59	200	337	Horizontal	/
3	2490.7300	37.93	33.02	-4.91	54.00	20.98	200	337	Horizontal	/
4	2500.0000	36.74	31.75	-4.99	54.00	22.25	100	19	Horizontal	/
1	2479.8025	96.93	91.84	-5.09	54.00	-37.84	100	76	Vertical	No limit
2	2483.5000	36.90	31.83	-5.07	54.00	22.17	100	14	Vertical	/
3	2490.8950	37.49	32.45	-5.04	54.00	21.55	100	341	Vertical	/
4	2500.0000	36.84	31.85	-4.99	54.00	22.15	100	341	Vertical	/

2DH5

Lowest Channel

Frequency 2402MHz

Environment: 26.3℃/56%RH/101.0kPa

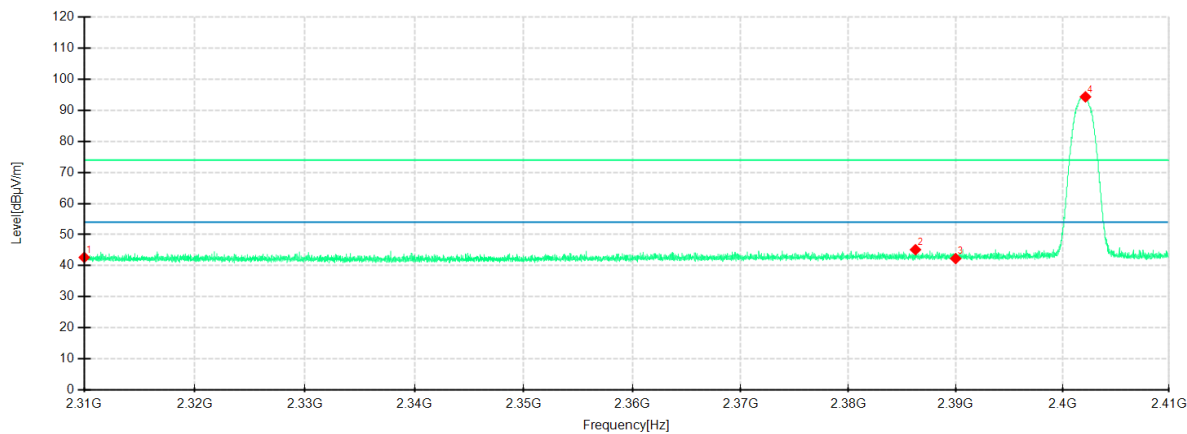
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 13.2V

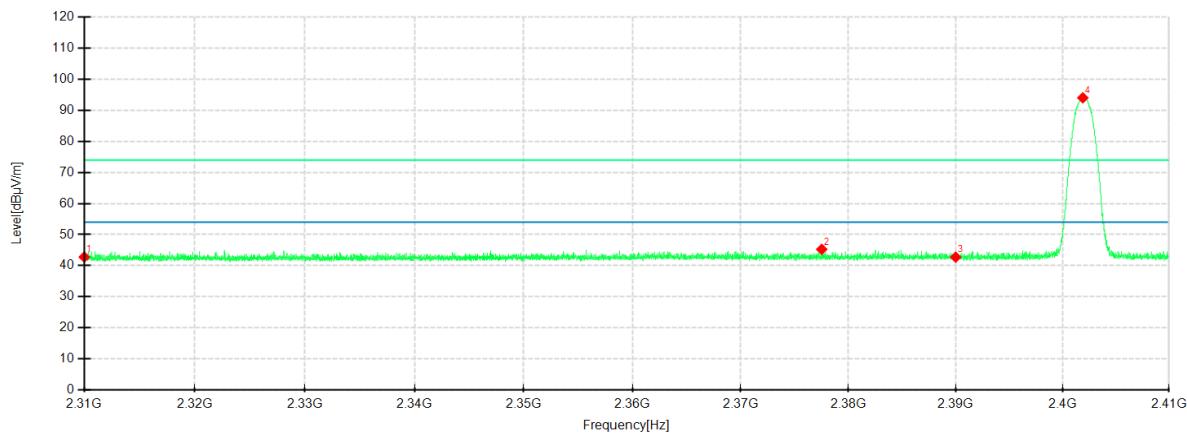
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	48.14	42.66	-5.48	74.00	31.34	200	301	Horizontal	/
2	2386.2500	50.58	45.15	-5.43	74.00	28.85	100	187	Horizontal	/
3	2390.0000	47.68	42.29	-5.39	74.00	31.71	200	0	Horizontal	/
4	2402.1500	99.57	94.34	-5.23	74.00	-20.34	200	74	Horizontal	No limit
1	2310.0000	48.10	42.78	-5.32	74.00	31.22	200	21	Vertical	/
2	2377.5250	50.74	45.27	-5.47	74.00	28.73	200	21	Vertical	/
3	2390.0000	48.21	42.74	-5.47	74.00	31.26	200	323	Vertical	/
4	2401.9000	99.49	94.03	-5.46	74.00	-20.03	200	84	Vertical	No limit

Lowest Channel

Frequency 2402MHz

Environment: 26.3℃/56%RH/101.0kPa

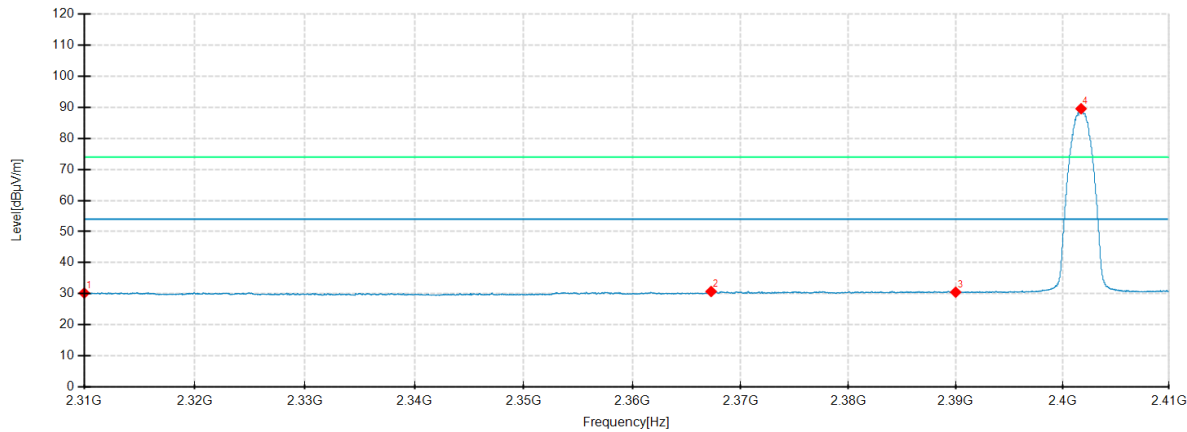
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 13.2V

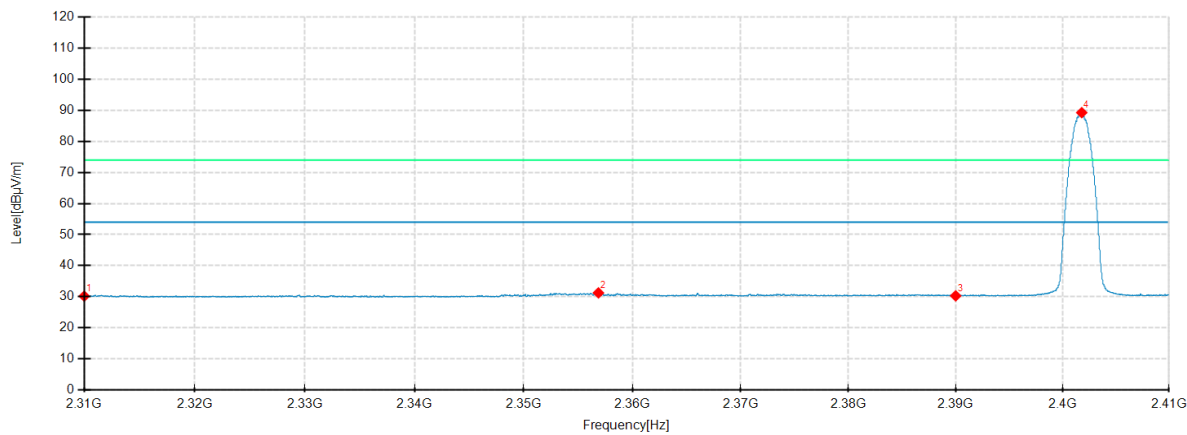
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	35.70	30.22	-5.48	54.00	23.78	100	299	Horizontal	/
2	2367.2750	36.37	30.71	-5.66	54.00	23.29	200	301	Horizontal	/
3	2390.0000	35.88	30.49	-5.39	54.00	23.51	200	301	Horizontal	/
4	2401.7375	94.80	89.55	-5.25	54.00	-35.55	200	83	Horizontal	No limit
1	2310.0000	35.50	30.18	-5.32	54.00	23.82	200	297	Vertical	/
2	2356.8750	36.71	31.24	-5.47	54.00	22.76	200	310	Vertical	/
3	2390.0000	35.75	30.28	-5.47	54.00	23.72	200	184	Vertical	/
4	2401.8000	94.73	89.27	-5.46	54.00	-35.27	200	95	Vertical	No limit

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/56%RH/101.0kPa

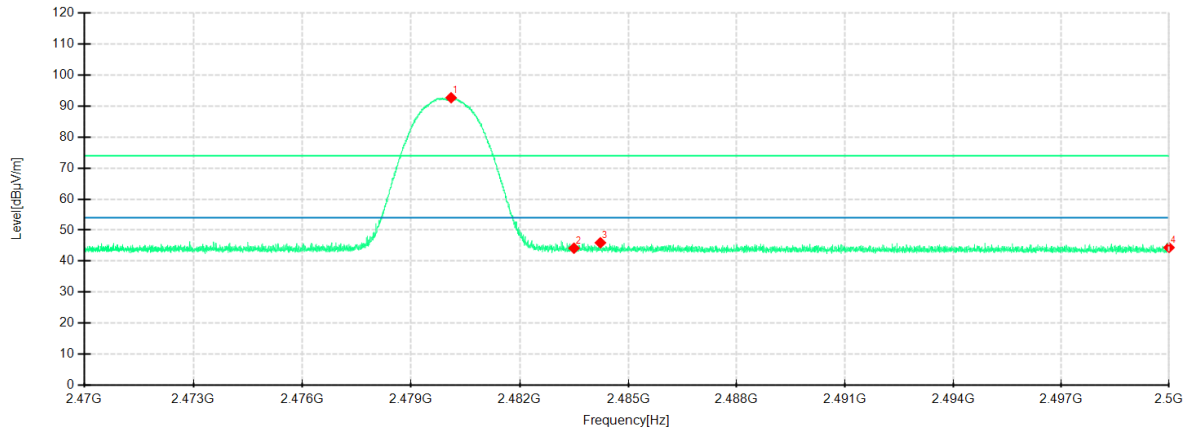
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 13.2V

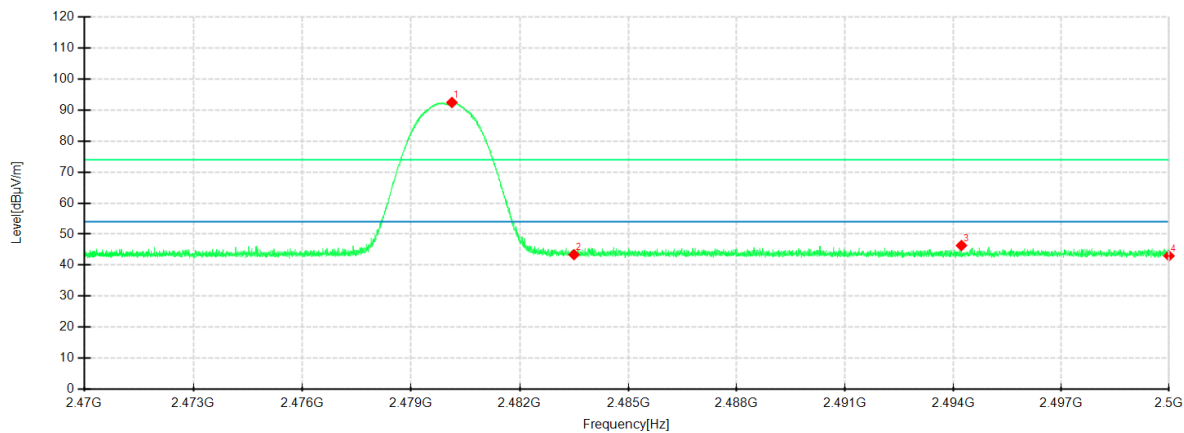
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2480.1063	97.50	92.69	-4.81	74.00	-18.69	100	83	Horizontal	No limit
2	2483.5000	48.99	44.16	-4.83	74.00	29.84	200	7	Horizontal	/
3	2484.2313	50.77	45.93	-4.84	74.00	28.07	100	20	Horizontal	/
4	2500.0000	49.36	44.37	-4.99	74.00	29.63	200	110	Horizontal	/
1	2480.1288	97.55	92.46	-5.09	74.00	-18.46	100	75	Vertical	No limit
2	2483.5000	48.44	43.37	-5.07	74.00	30.63	100	10	Vertical	/
3	2494.2325	51.33	46.32	-5.01	74.00	27.68	200	171	Vertical	/
4	2500.0000	47.97	42.98	-4.99	74.00	31.02	100	10	Vertical	/

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/56%RH/101.0kPa

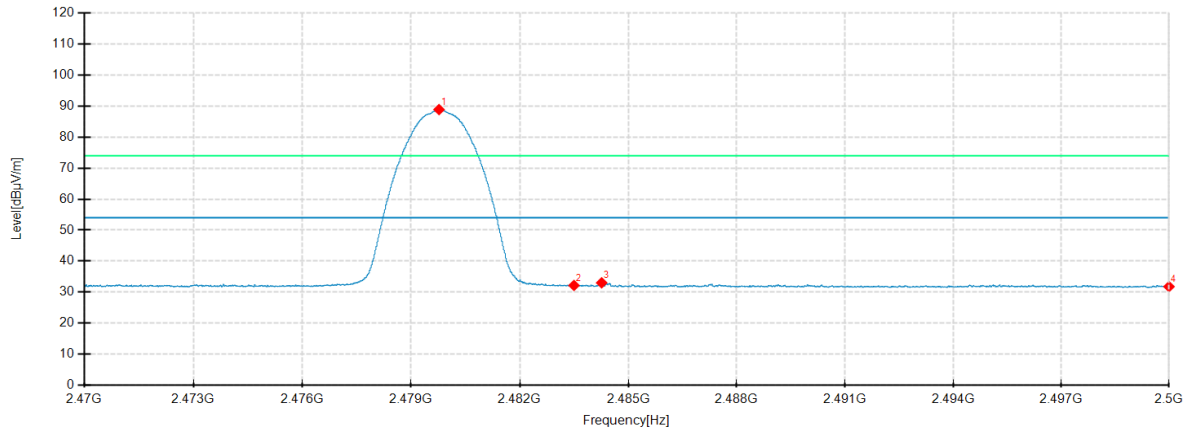
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 13.2V

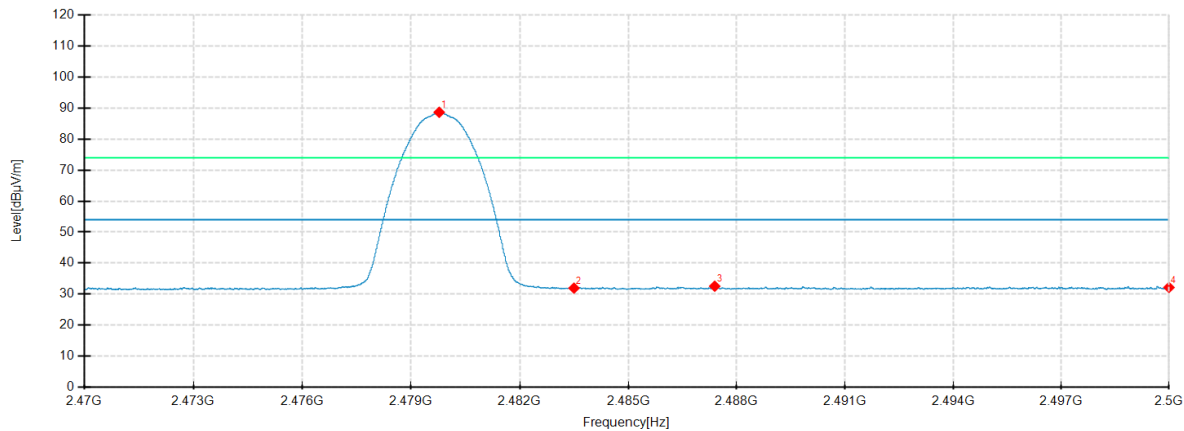
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.7725	93.69	88.88	-4.81	54.00	-34.88	100	85	Horizontal	No limit
2	2483.5000	36.99	32.16	-4.83	54.00	21.84	100	250	Horizontal	/
3	2484.2650	37.85	33.01	-4.84	54.00	20.99	200	341	Horizontal	/
4	2500.0000	36.76	31.77	-4.99	54.00	22.23	100	19	Horizontal	/
1	2479.7763	93.74	88.65	-5.09	54.00	-34.65	200	82	Vertical	No limit
2	2483.5000	37.00	31.93	-5.07	54.00	22.07	100	85	Vertical	/
3	2487.3925	37.61	32.56	-5.05	54.00	21.44	200	19	Vertical	/
4	2500.0000	37.14	32.15	-4.99	54.00	21.85	100	9	Vertical	/

3DH5

Lowest Channel

Frequency 2402MHz

Environment: 26.3℃/56%RH/101.0kPa

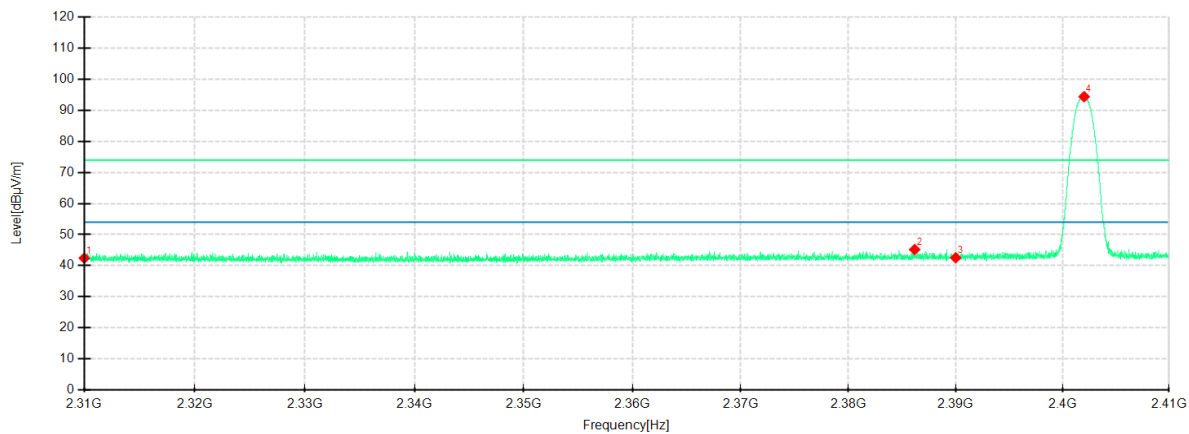
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 13.2V

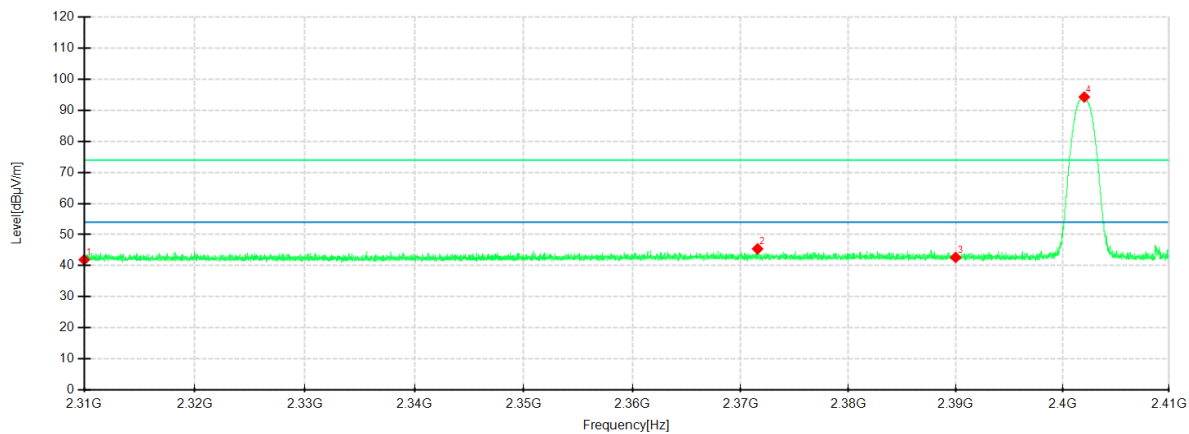
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	47.91	42.43	-5.48	74.00	31.57	100	48	Horizontal	/
2	2386.1750	50.63	45.19	-5.44	74.00	28.81	200	289	Horizontal	/
3	2390.0000	47.93	42.54	-5.39	74.00	31.46	100	360	Horizontal	/
4	2402.0250	99.65	94.41	-5.24	74.00	-20.41	100	73	Horizontal	No limit
1	2310.0000	47.22	41.90	-5.32	74.00	32.10	200	149	Vertical	/
2	2371.5750	50.89	45.42	-5.47	74.00	28.58	200	250	Vertical	/
3	2390.0000	48.13	42.66	-5.47	74.00	31.34	100	340	Vertical	/
4	2402.0375	99.75	94.29	-5.46	74.00	-20.29	100	75	Vertical	No limit

Lowest Channel

Frequency 2402MHz

Environment: 26.3℃/56%RH/101.0kPa

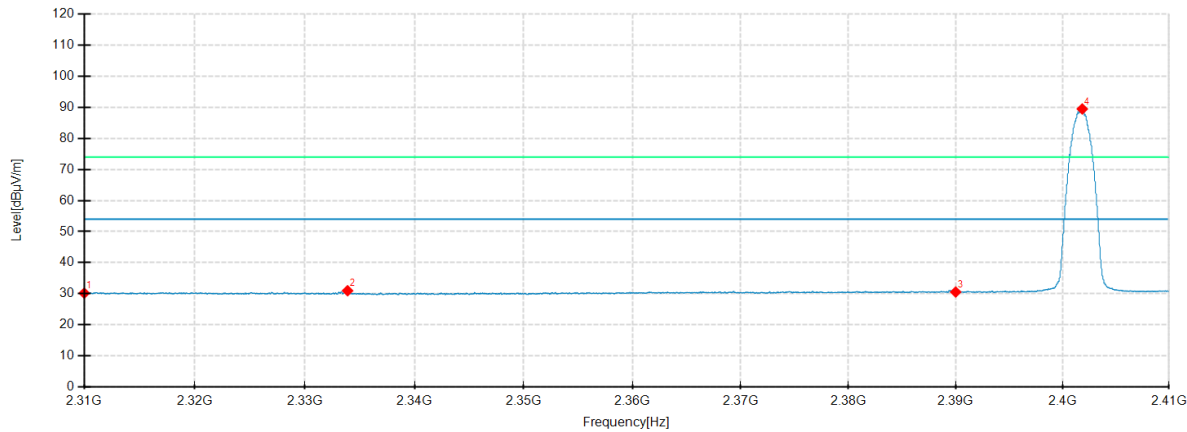
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 13.2V

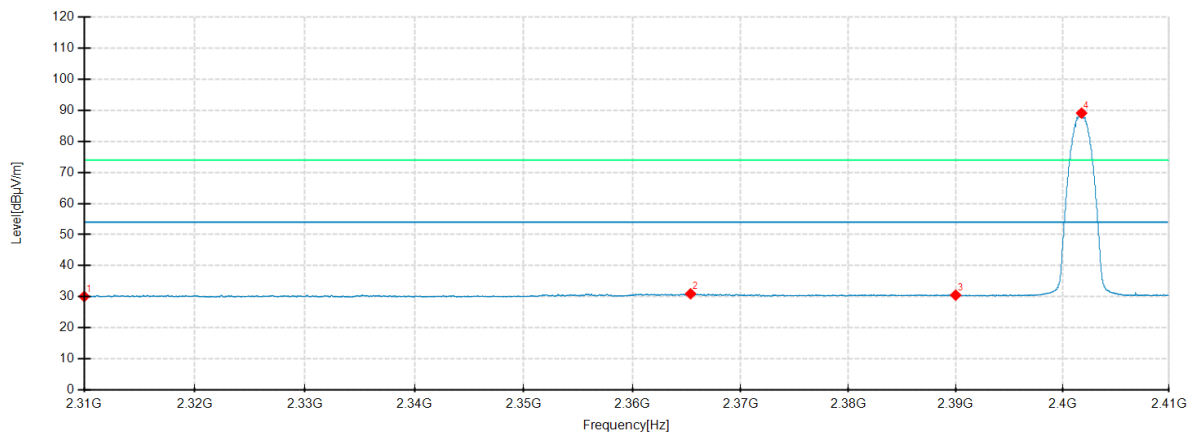
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	35.67	30.19	-5.48	54.00	23.81	100	311	Horizontal	/
2	2333.8875	36.68	30.96	-5.72	54.00	23.04	200	316	Horizontal	/
3	2390.0000	35.95	30.56	-5.39	54.00	23.44	100	298	Horizontal	/
4	2401.8500	94.72	89.48	-5.24	54.00	-35.48	200	51	Horizontal	No limit
1	2310.0000	35.39	30.07	-5.32	54.00	23.93	100	301	Vertical	/
2	2365.3750	36.41	30.94	-5.47	54.00	23.06	100	301	Vertical	/
3	2390.0000	35.97	30.50	-5.47	54.00	23.50	100	26	Vertical	/
4	2401.7875	94.57	89.11	-5.46	54.00	-35.11	200	96	Vertical	No limit

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/56%RH/101.0kPa

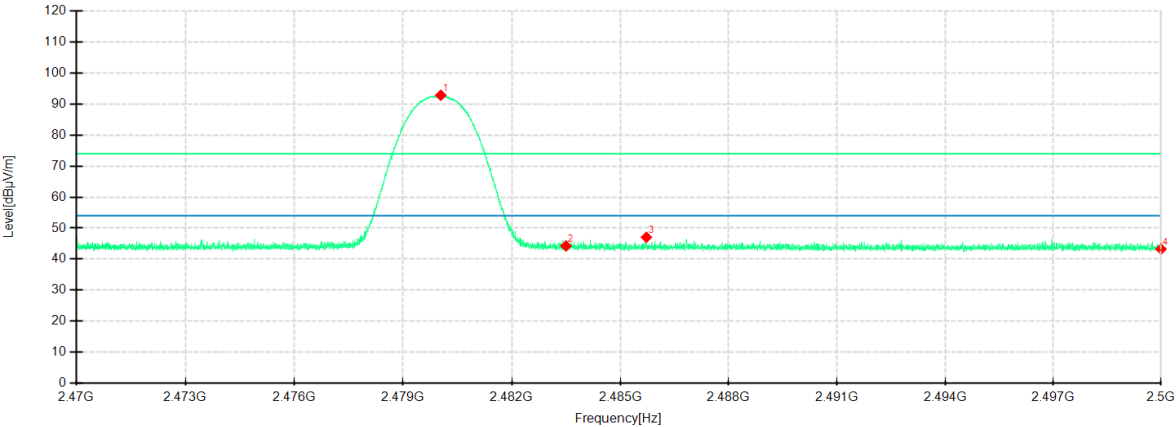
Tested By: Qin Tingting

Detector mode: Peak

Test Voltage: DC 13.2V

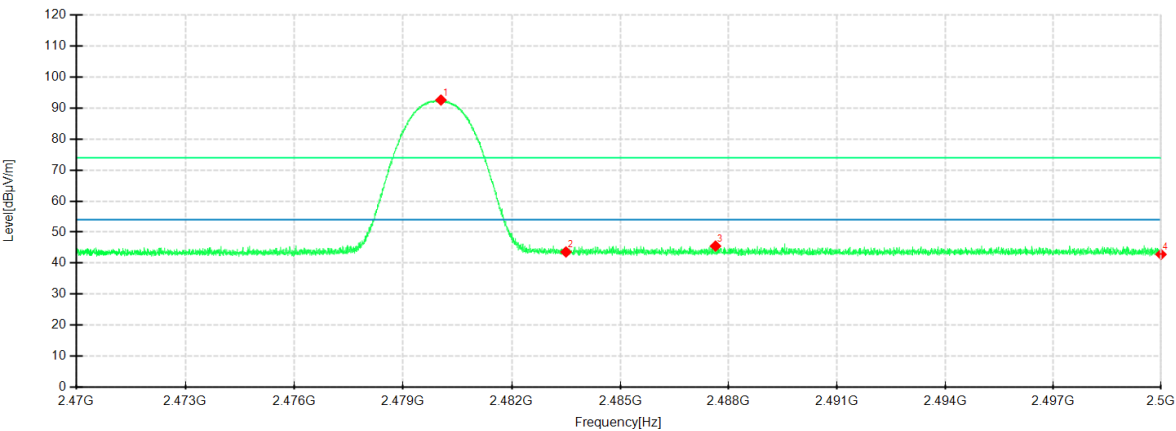
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2480.0425	97.67	92.86	-4.81	74.00	-18.86	100	84	Horizontal	No limit
2	2483.5000	49.09	44.26	-4.83	74.00	29.74	100	274	Horizontal	/
3	2485.7238	51.91	47.05	-4.86	74.00	26.95	200	11	Horizontal	/
4	2500.0000	48.24	43.25	-4.99	74.00	30.75	200	74	Horizontal	/
1	2480.0463	97.69	92.60	-5.09	74.00	-18.60	200	84	Vertical	No limit
2	2483.5000	48.67	43.60	-5.07	74.00	30.40	200	300	Vertical	/
3	2487.6363	50.55	45.50	-5.05	74.00	28.50	100	340	Vertical	/
4	2500.0000	47.81	42.82	-4.99	74.00	31.18	200	235	Vertical	/

Highest Channel

Frequency 2480MHz

Environment: 26.3℃/56%RH/101.0kPa

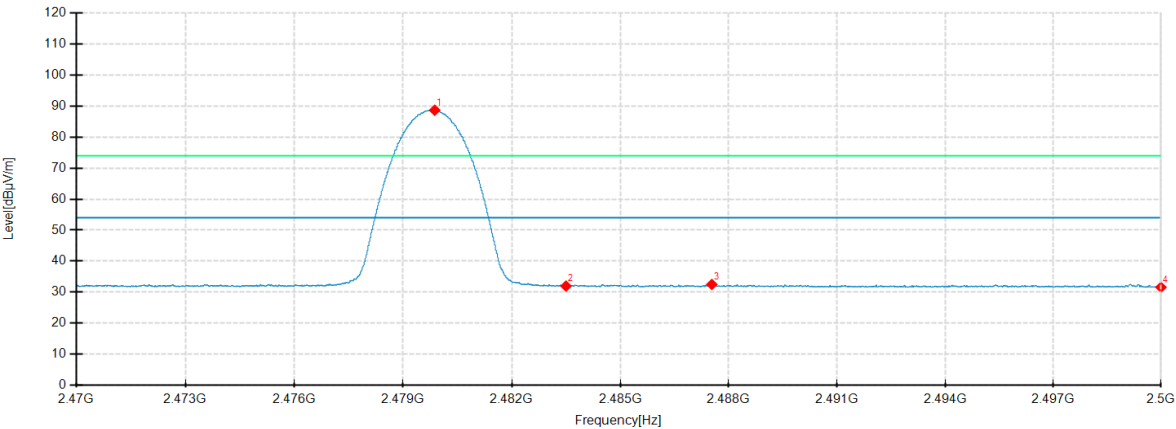
Tested By: Qin Tingting

Detector mode: Average

Test Voltage: DC 13.2V

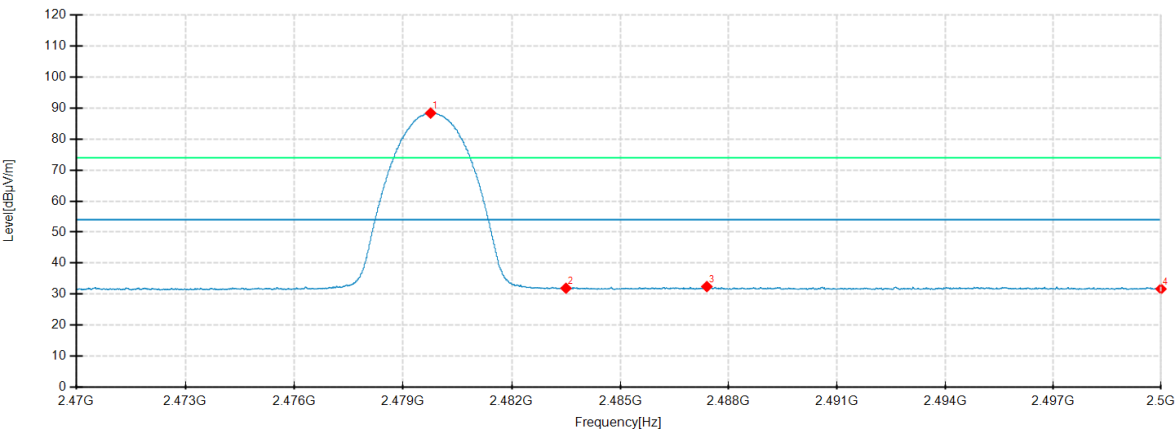
Date: 2024-10-08

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dB μ V/m	Level dB μ V/m	Factor dB	Limit dB μ V/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8738	93.48	88.67	-4.81	54.00	-34.67	100	82	Horizontal	No limit
2	2483.5000	36.78	31.95	-4.83	54.00	22.05	200	153	Horizontal	/
3	2487.5350	37.36	32.48	-4.88	54.00	21.52	100	20	Horizontal	/
4	2500.0000	36.56	31.57	-4.99	54.00	22.43	100	287	Horizontal	/
1	2479.7613	93.48	88.39	-5.09	54.00	-34.39	200	85	Vertical	No limit
2	2483.5000	36.97	31.90	-5.07	54.00	22.10	100	240	Vertical	/
3	2487.3963	37.49	32.44	-5.05	54.00	21.56	200	22	Vertical	/
4	2500.0000	36.66	31.67	-4.99	54.00	22.33	200	274	Vertical	/

Remark:

- 1) Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

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APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20240822625802-Test photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20240822625802-EUT photo.

----- End of Report -----