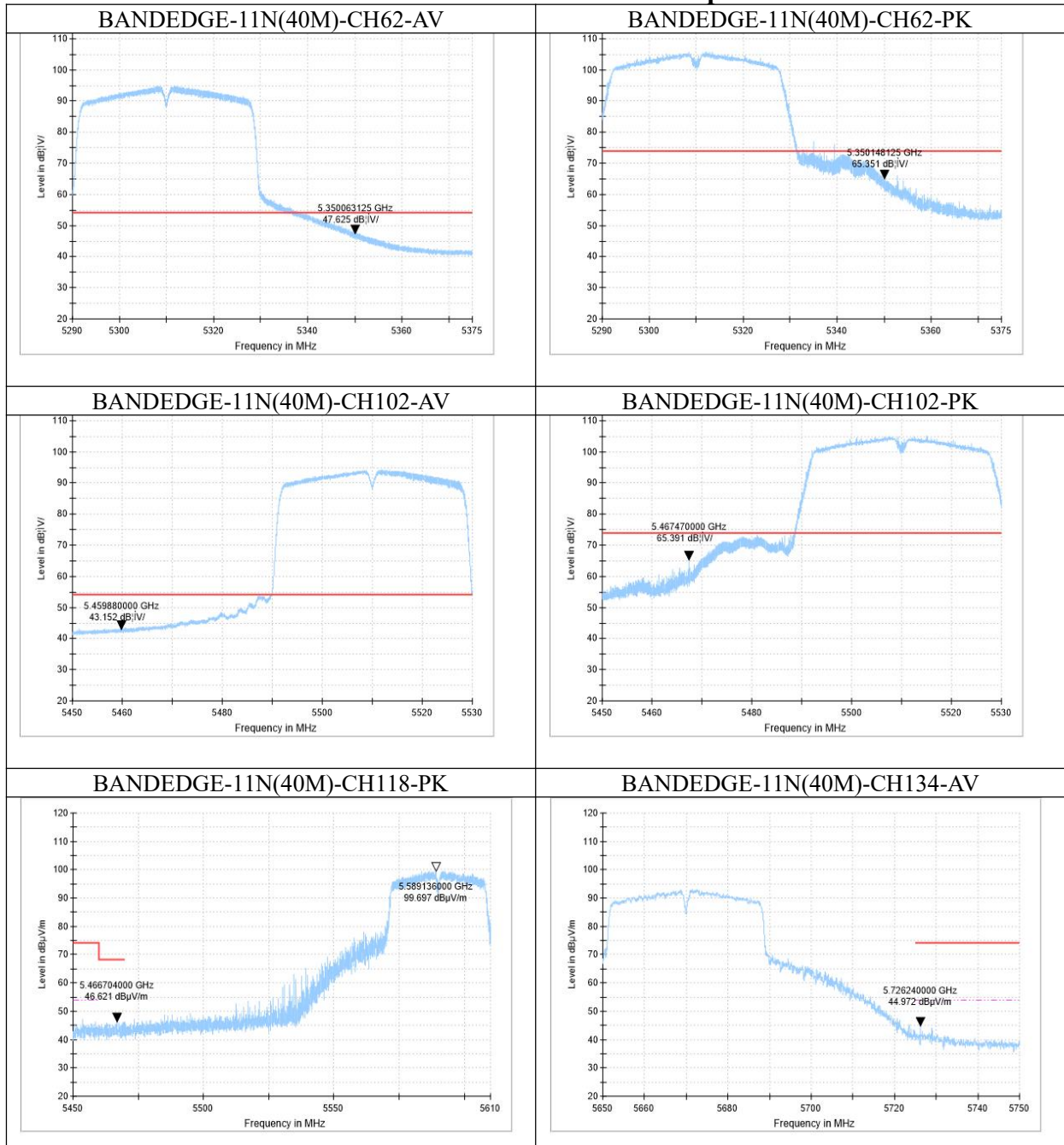
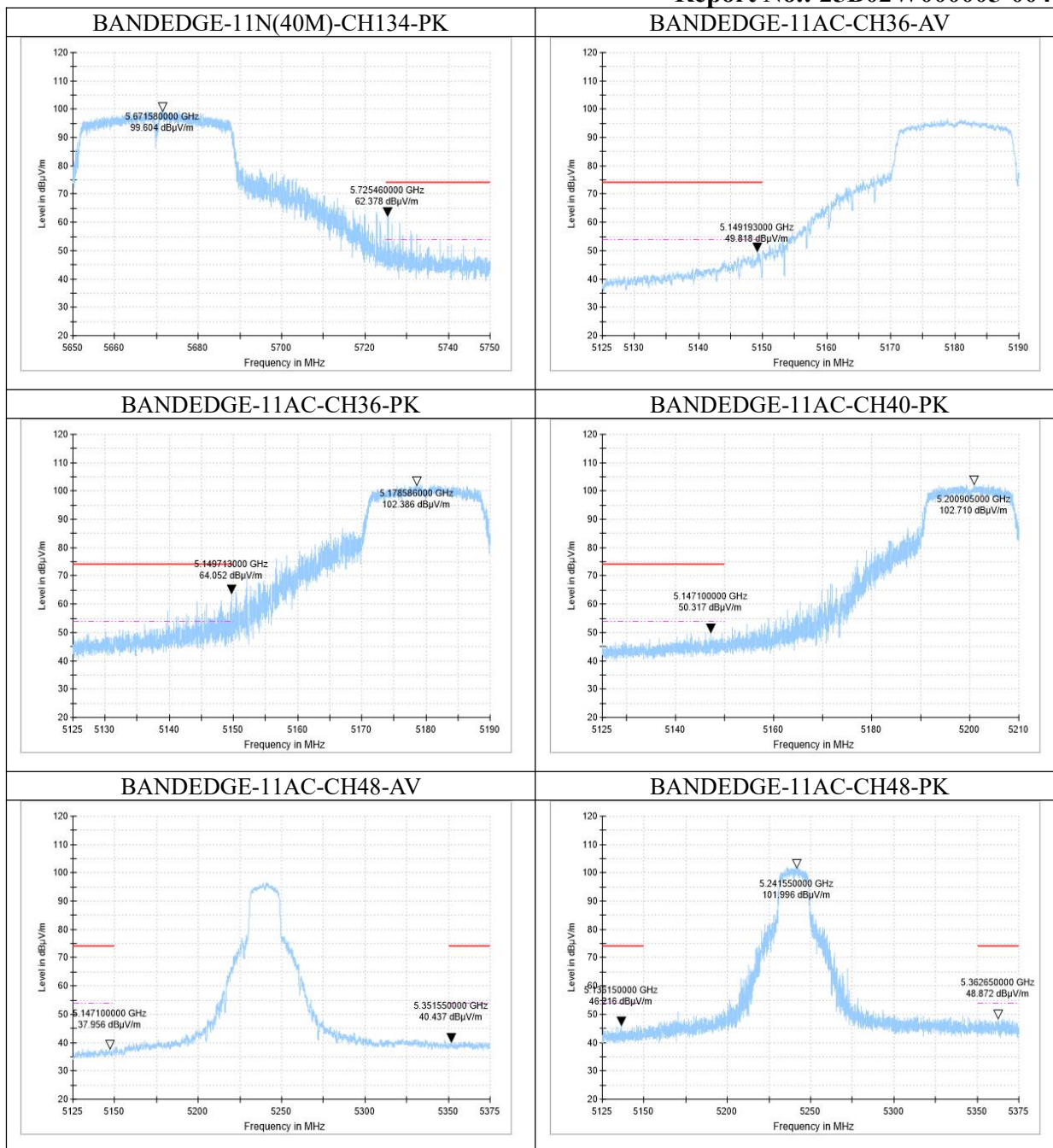
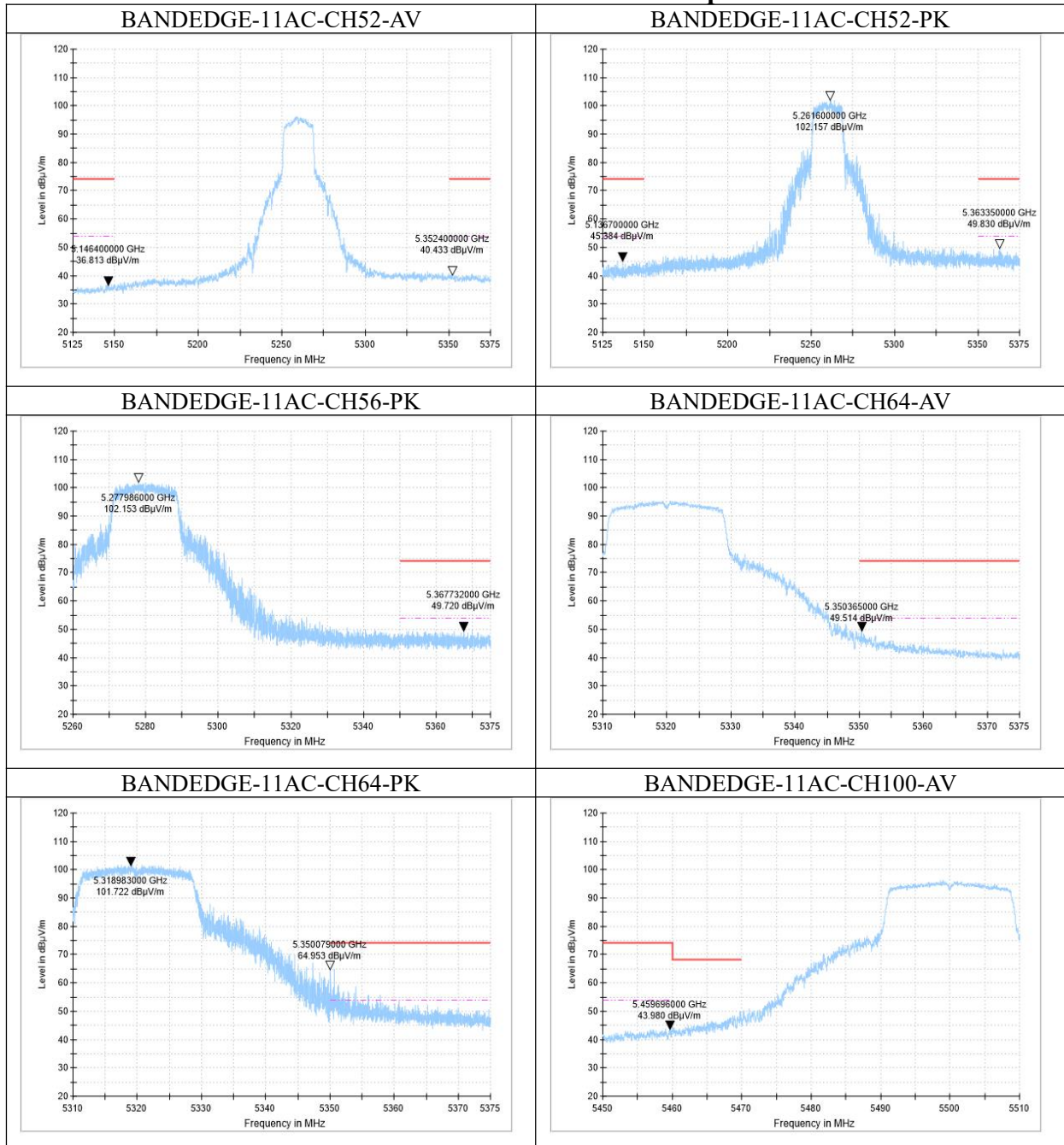
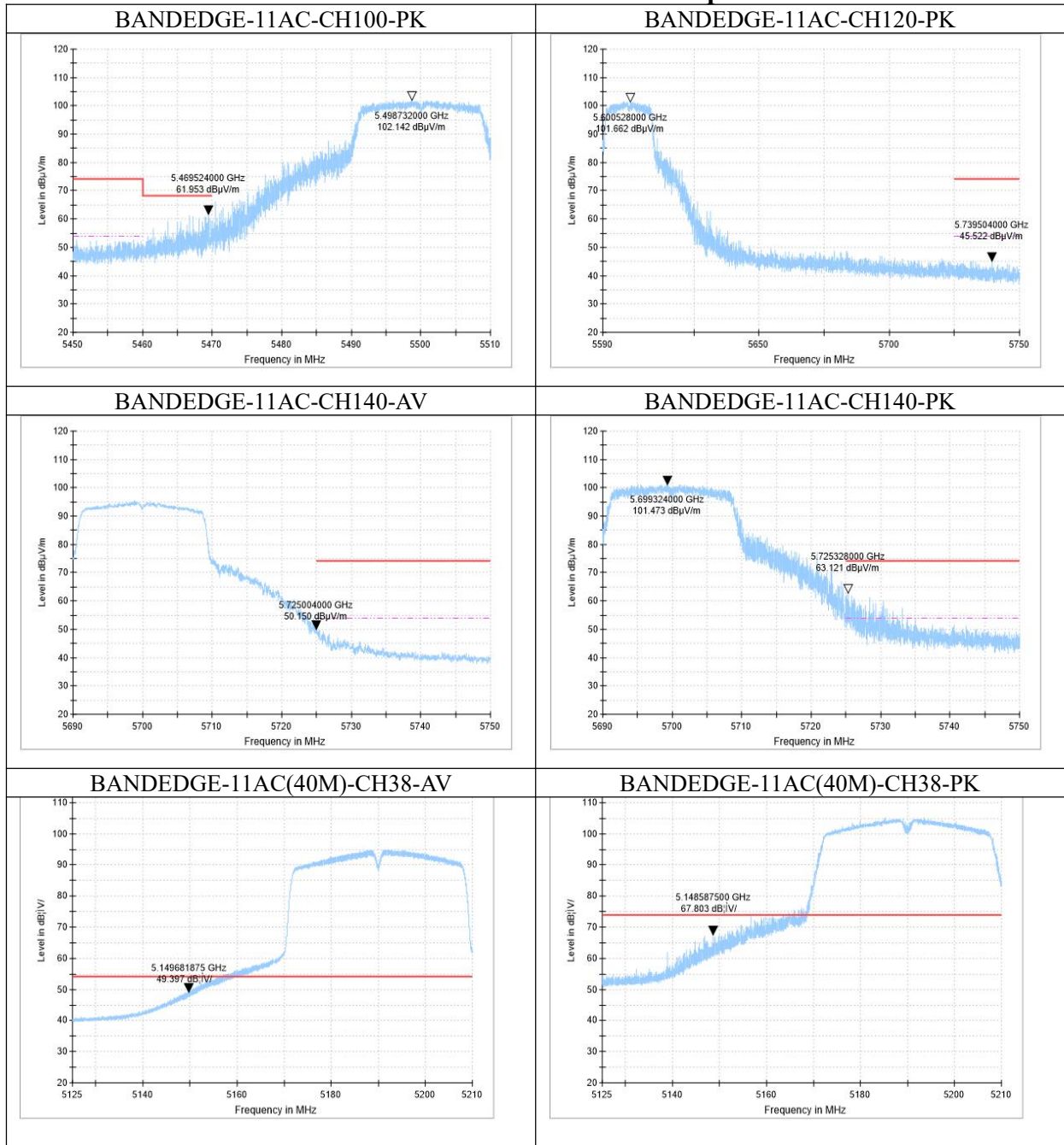
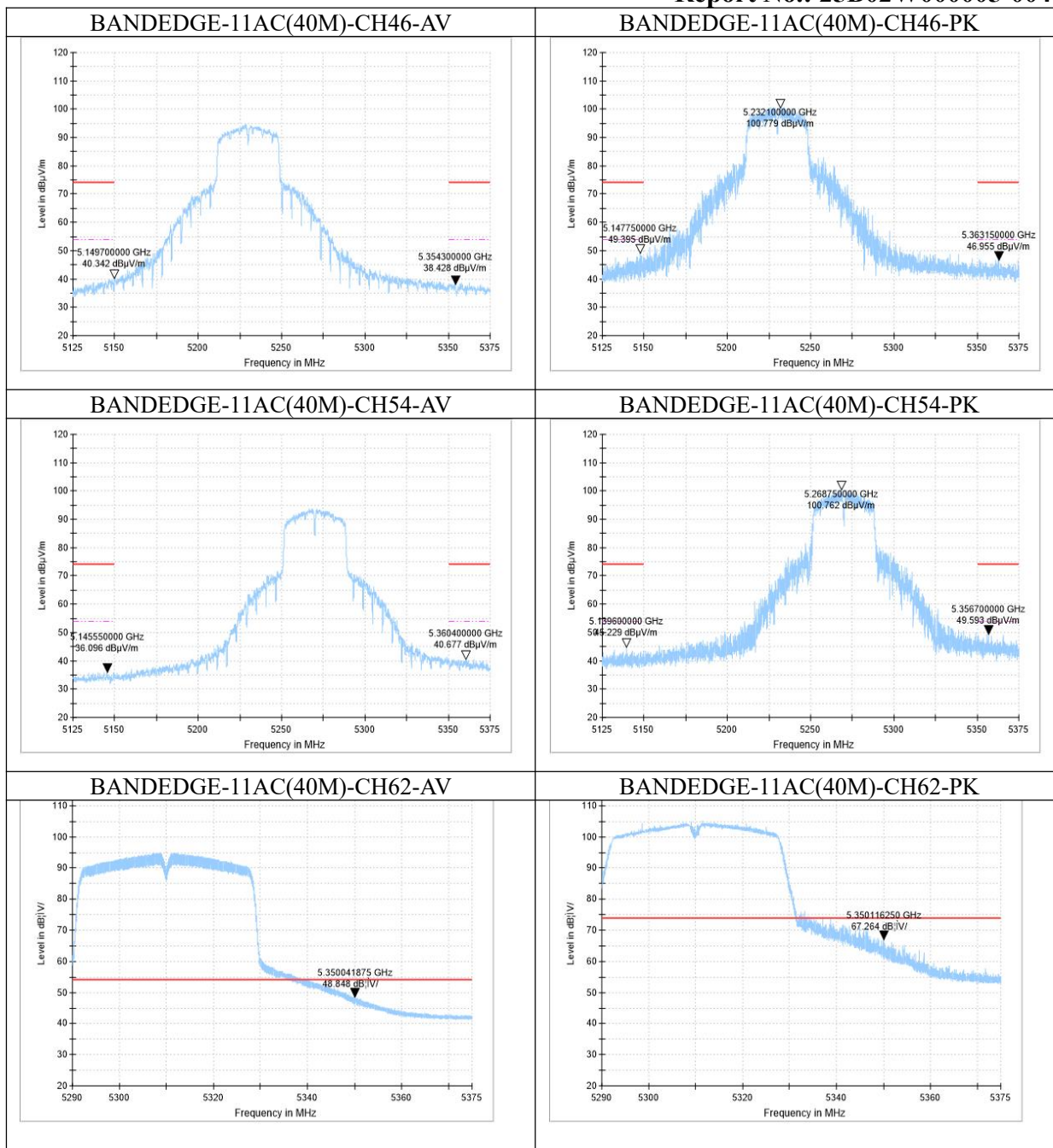






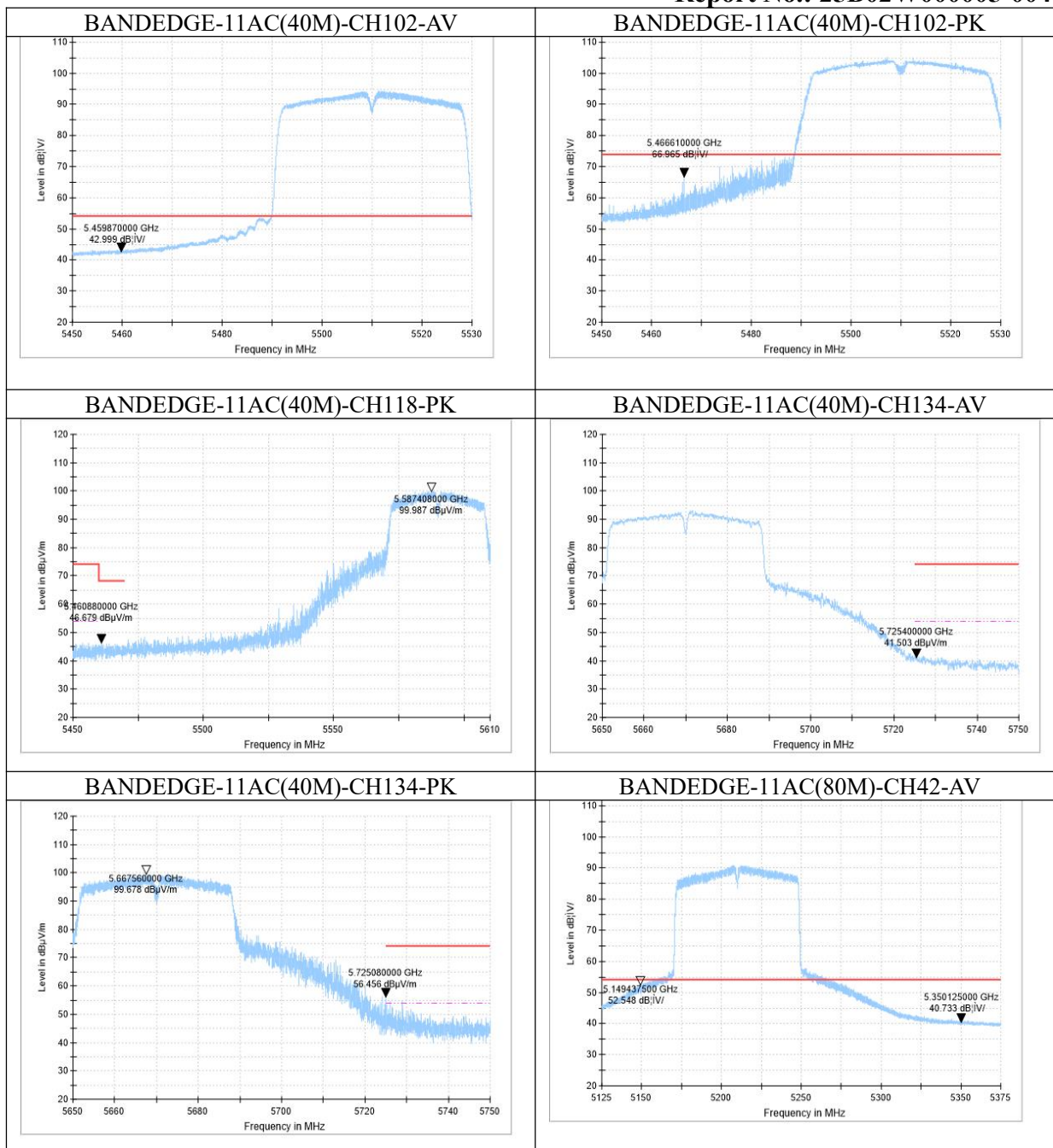






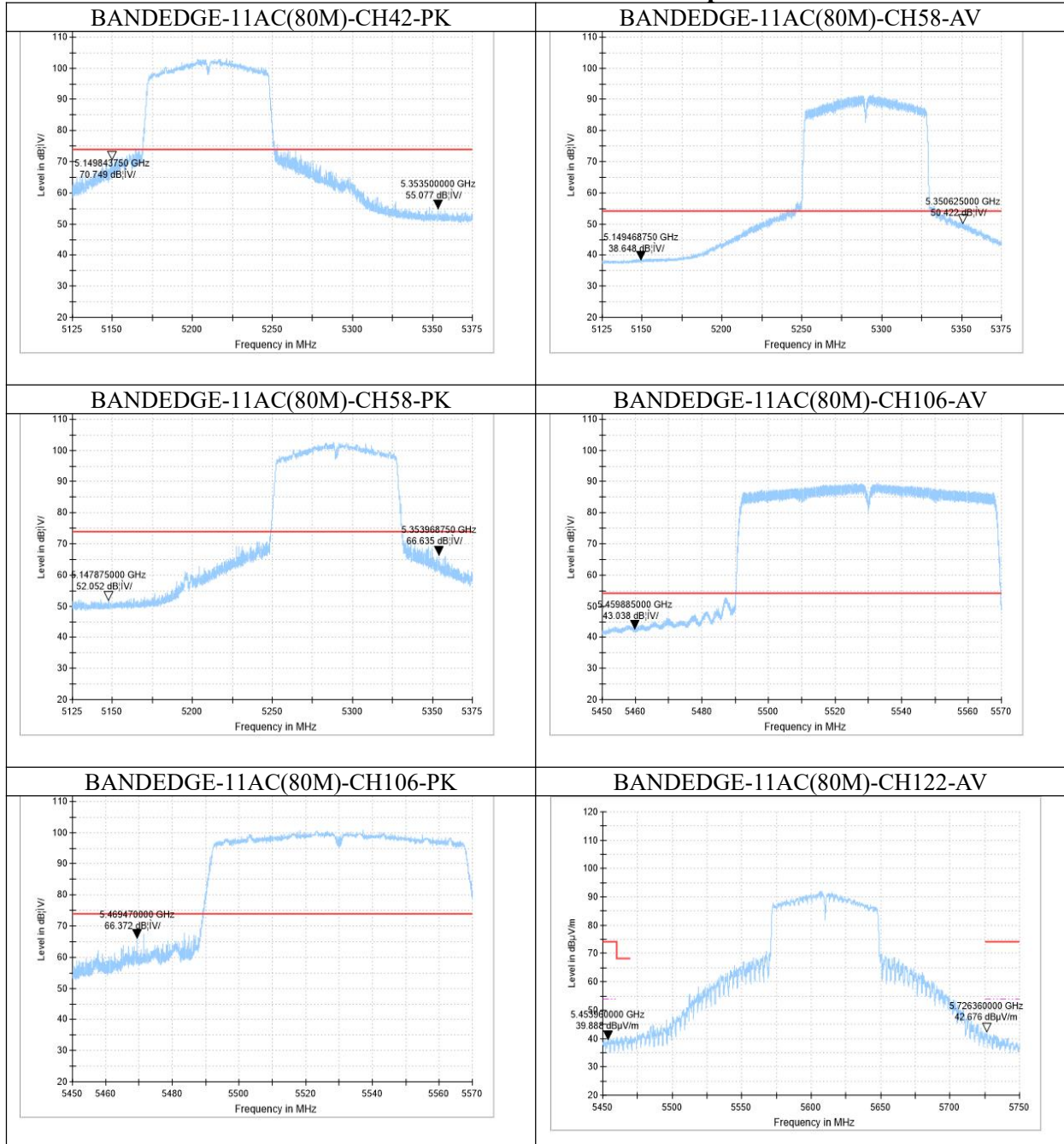
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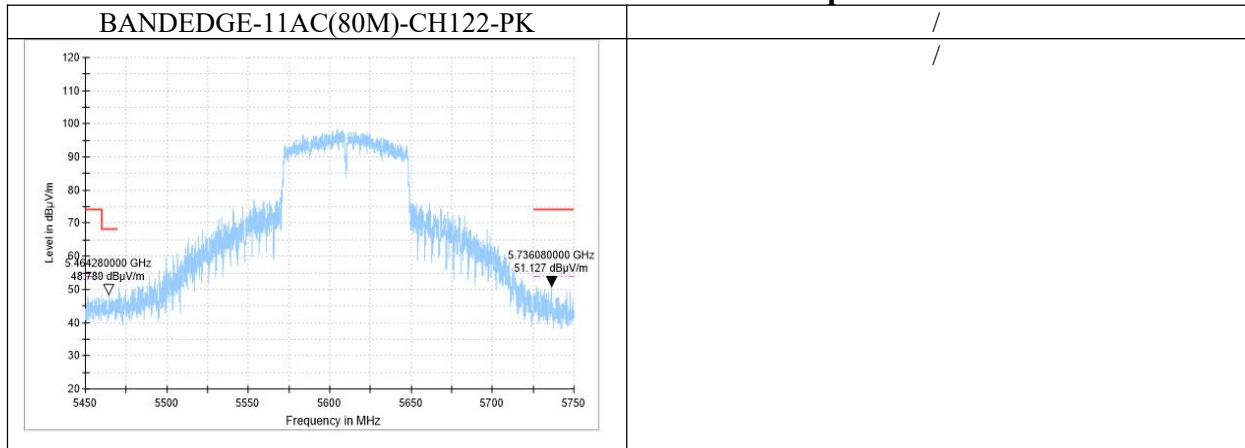
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Note:

1. Only data in worst mode is provided.
2. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

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6.8. Transmitter Spurious Emission

Specifications:	15.209 & 15.407(b)
DUT Serial Number:	25B02W000005#S07
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Below 1G

Frequency of emission (MHz)	Field strength(dBμV/m)	Measurement distance(m)
0.009-0.490	129-94	3
0.490-1.705	74-63	3
1.705-30	70	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m.

Above 1G, non-restricted band

Standard	EIRP Limit
15.407(b)	-27dBm/MHz
RSS-247 6.2	-27dBm/MHz

Above 1G, Restricted band

Standard	EIRP Limit	
15.407(b)	-27dBm/MHz	
15.209	Peak	74dBμV/m
	Average	54dBμV/m
RSS-247 6.2	-27dBm/MHz	
RSS-Gen 8.9	Peak	74dBμV/m
	Average	54dBμV/m

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log (d[\text{m}]) - 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} - 20 \log (d[\text{m}]) + 104.7$$

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$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2, \text{ for } d = 3\text{m}$$

Measurement Uncertainty:

Measurement Uncertainty	30MHz-150MHz 3.38 dB (k=2) 150MHz-1000MHz 4.09dB (k=2) 1000MHz-6000MHz 4.84 dB (k=2) 6000MHz-18000MHz 4.52 dB (k=2) 18000MHz-26500MHz 6.19 dB (k=2) 26500MHz-40000MHz 6.03 dB (k=2)
-------------------------	--

Test Procedure:

The measurement is made according to KDB 789033

Set the spectrum analyzer in the following:

Procedure for Unwanted Emissions Measurements below 1000 MHz:

- a) Follow the requirements in II.G.3. “General Requirements for Unwanted Emissions Measurements.”
- b) Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

Detector: Peak and Quasi-Peak

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz:

- a) Follow the requirements in II.G.3, “General Requirements for Unwanted Emissions Measurements.”
- b) Maximum emission levels are measured by setting the analyzer as follows:

(i) RBW = 1 MHz.

(ii) VBW $\geq$ 3 MHz.

(iii) Detector = Peak.

(iv) Sweep time = auto.

(v) Trace mode = max hold.

(vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

Procedures for Average Unwanted Emissions Measurements above 1000 MHz:

- a) Follow the requirements in section II.G.3., “General Requirements for Unwanted Emissions Measurements.”

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b) Average emission levels shall be measured using one of the following two methods.

c) Method AD (Average Detection): Primary method

(i) RBW = 1 MHz.

(ii) VBW $\geq$ 3 MHz.

(iii) Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

(iv) Averaging type = power averaging (rms)

As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

(v) Sweep time = auto.

(vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

(vii) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above

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Report No.: 25B02W000005-004

the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. Below 18GHz , the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz , the measurement antenna was placed at a distance of 1 meter from the EUT. During the tests, the antenna height varied from 1m to 4m and the EUT azimuth were varied from 0° to 360° in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Remark:

1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
2. Measured level= Original Receiver Reading + Factor
3. Margin = Limit – Measured level
4. If the PK measured level is lower than AV limit, the AV test can be elided

Note:

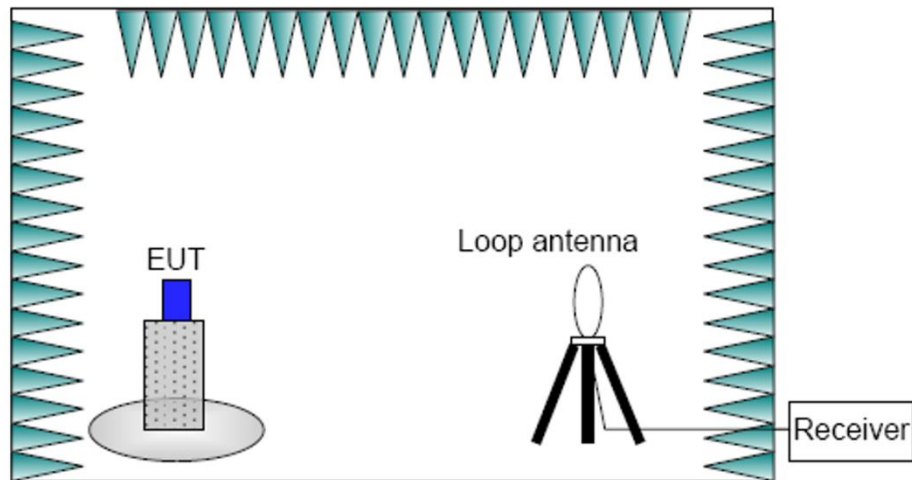
1. The out-of- limit signal in the picture is the main frequency signal.
2. Only data in worst mode is provided.
3. Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.
4. The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.
5. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

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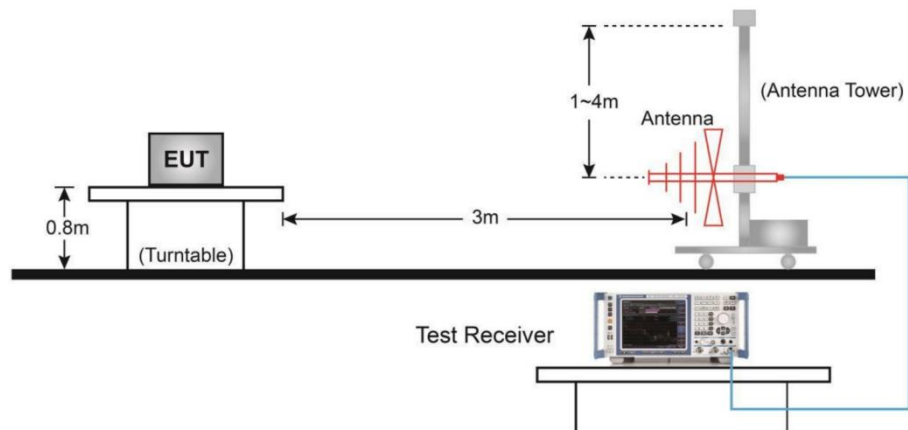
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Test Setup

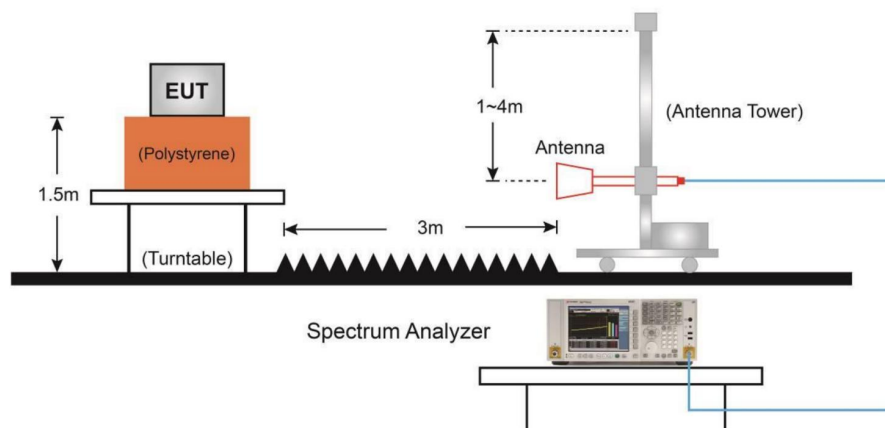
Below 30MHz Test Setup



Below 1GHz Test Setup



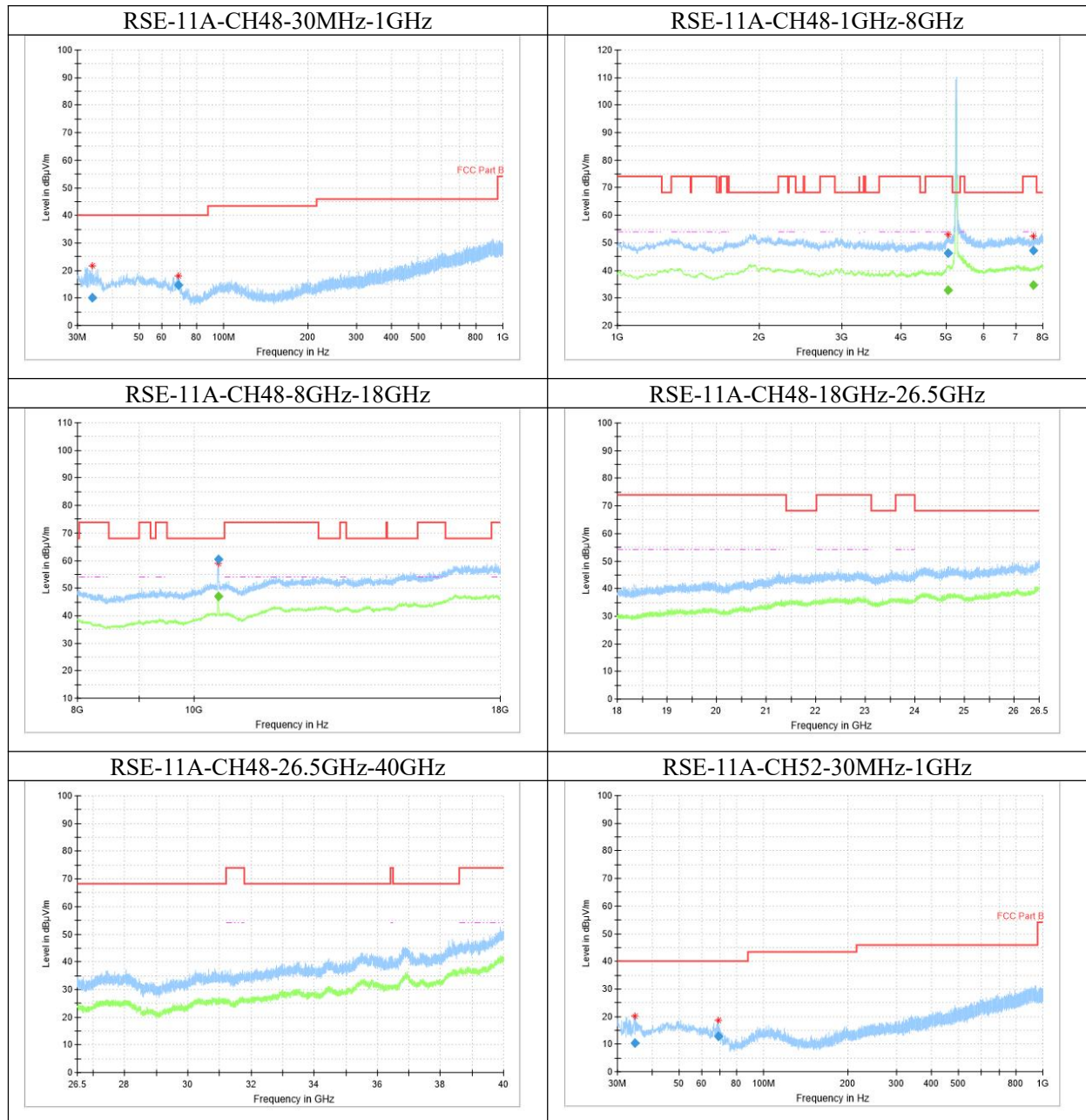
Above 1GHz Test Setup



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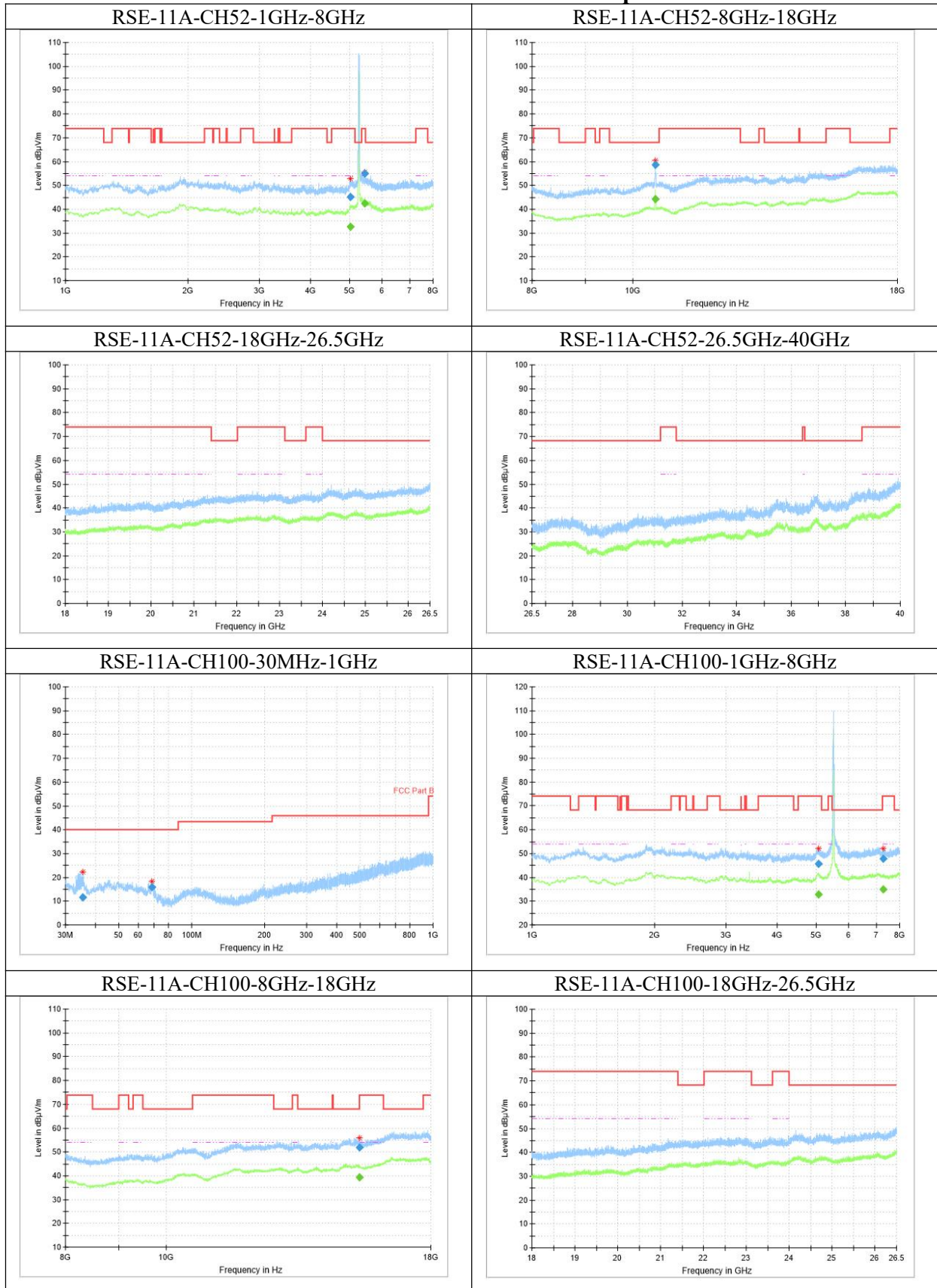
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Measurement Results:



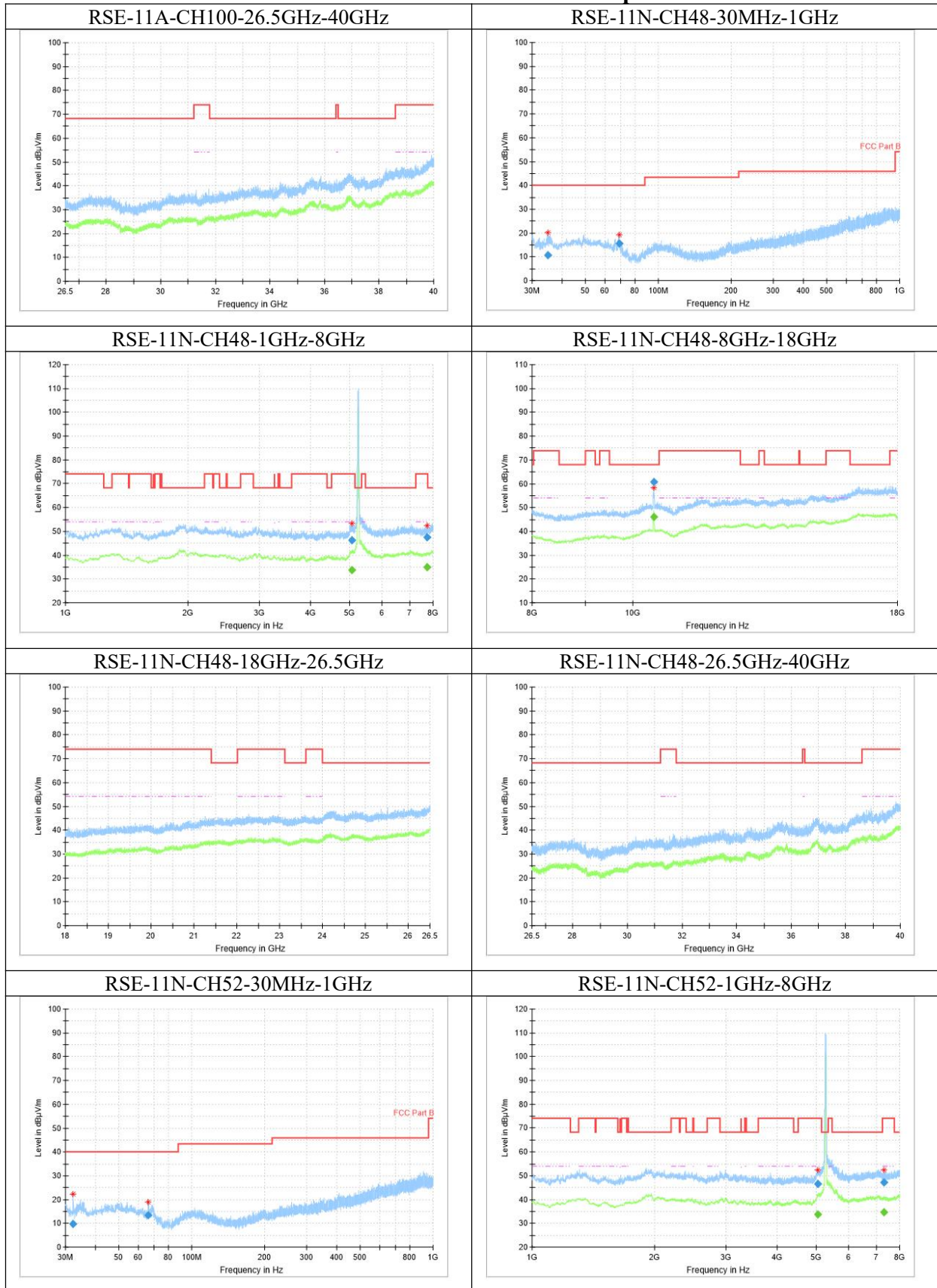
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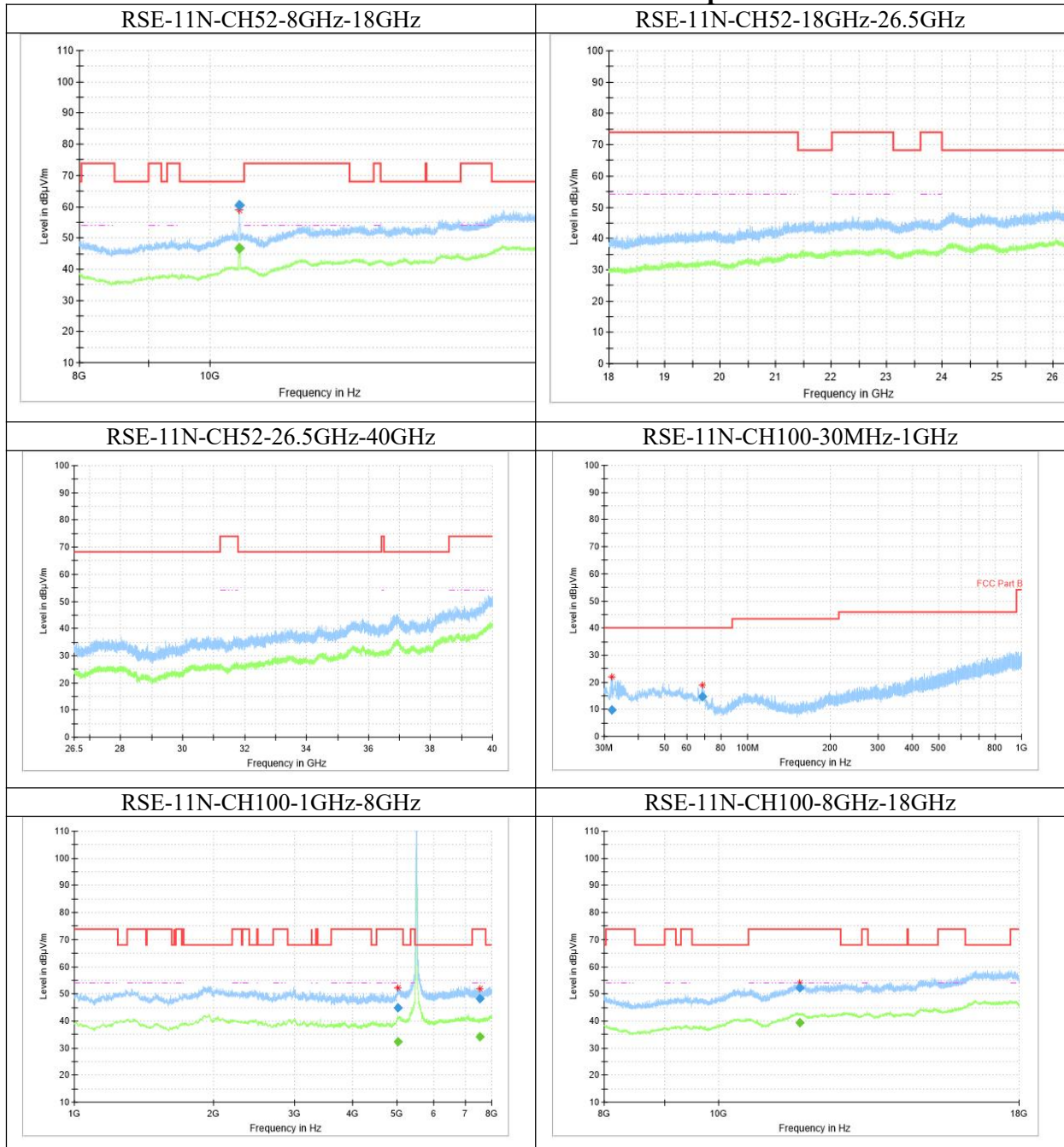
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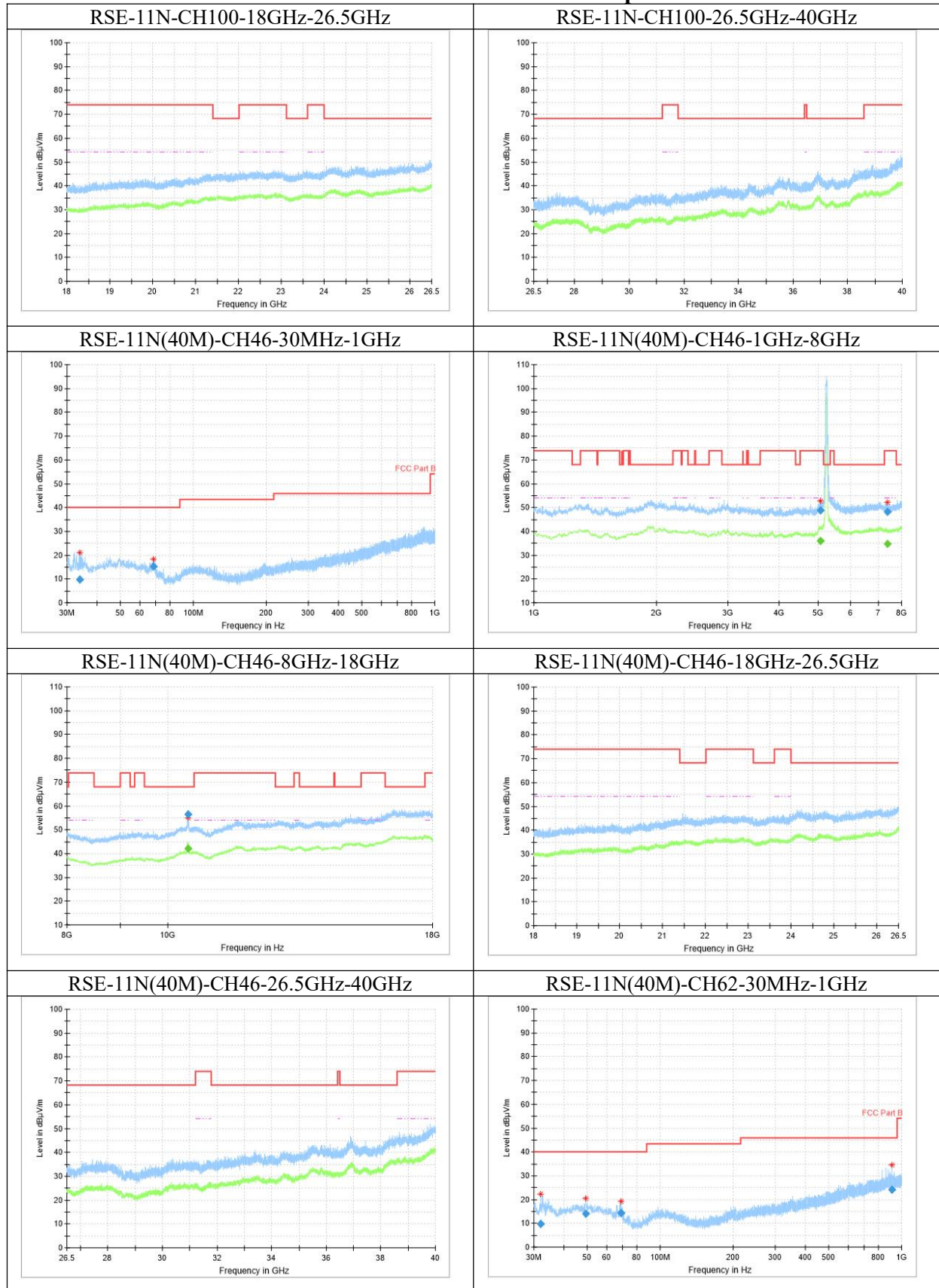
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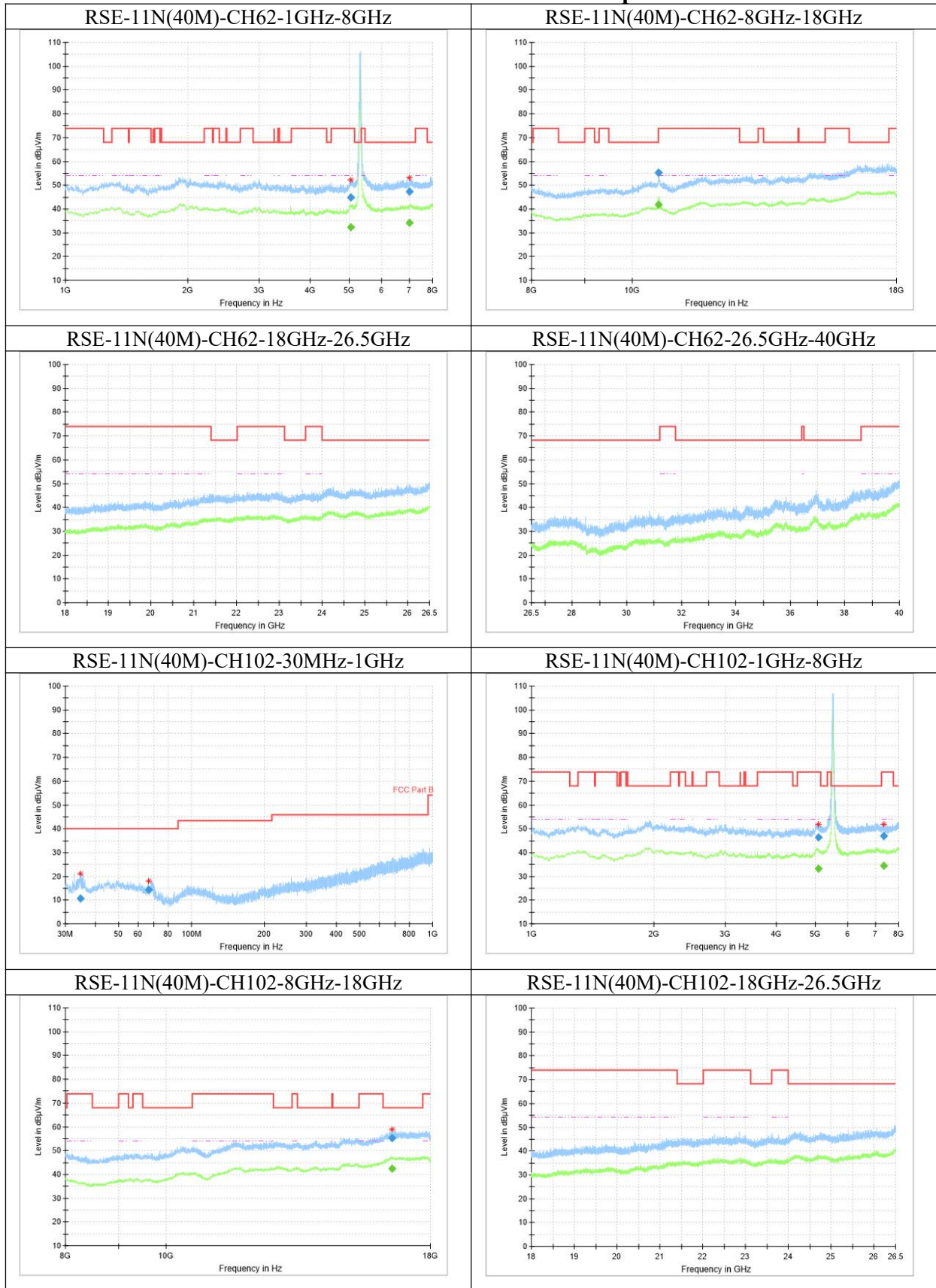
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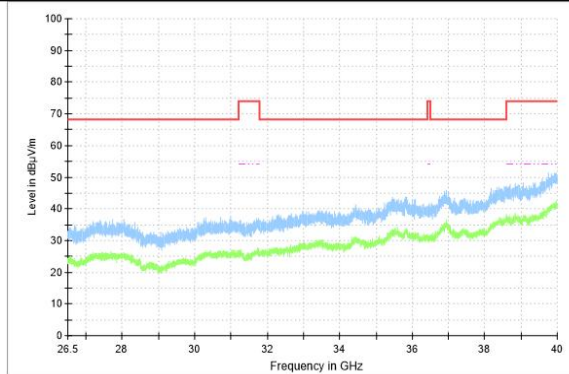
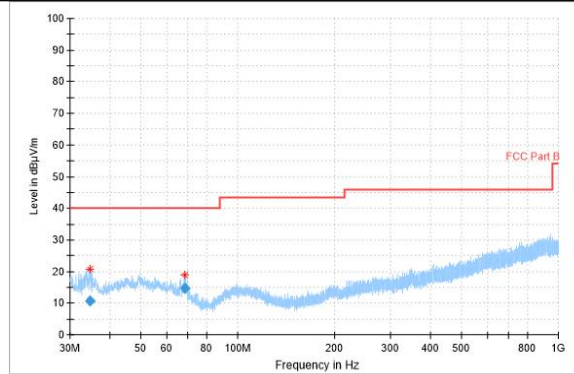
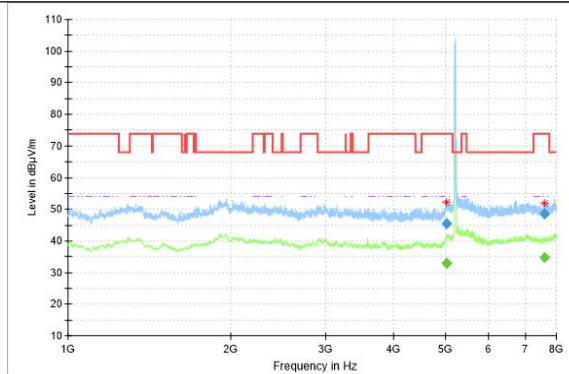
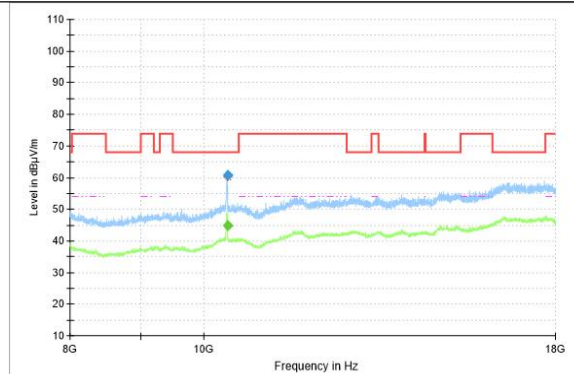
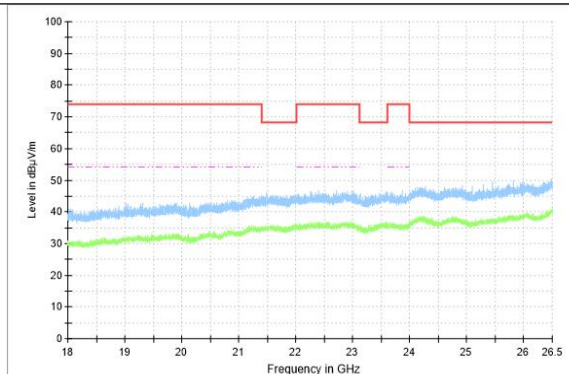
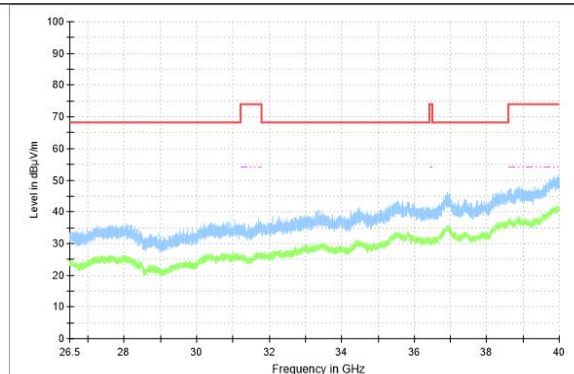
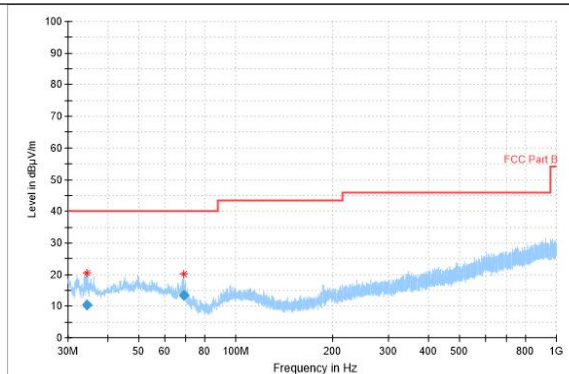
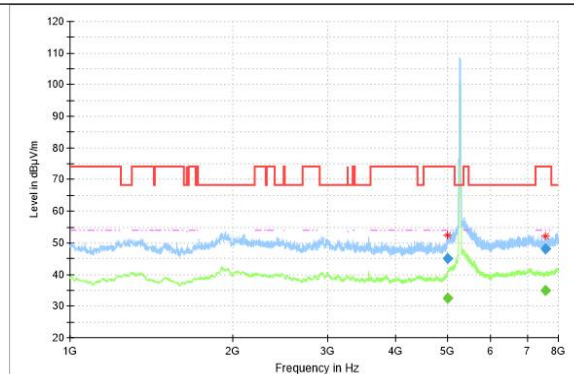
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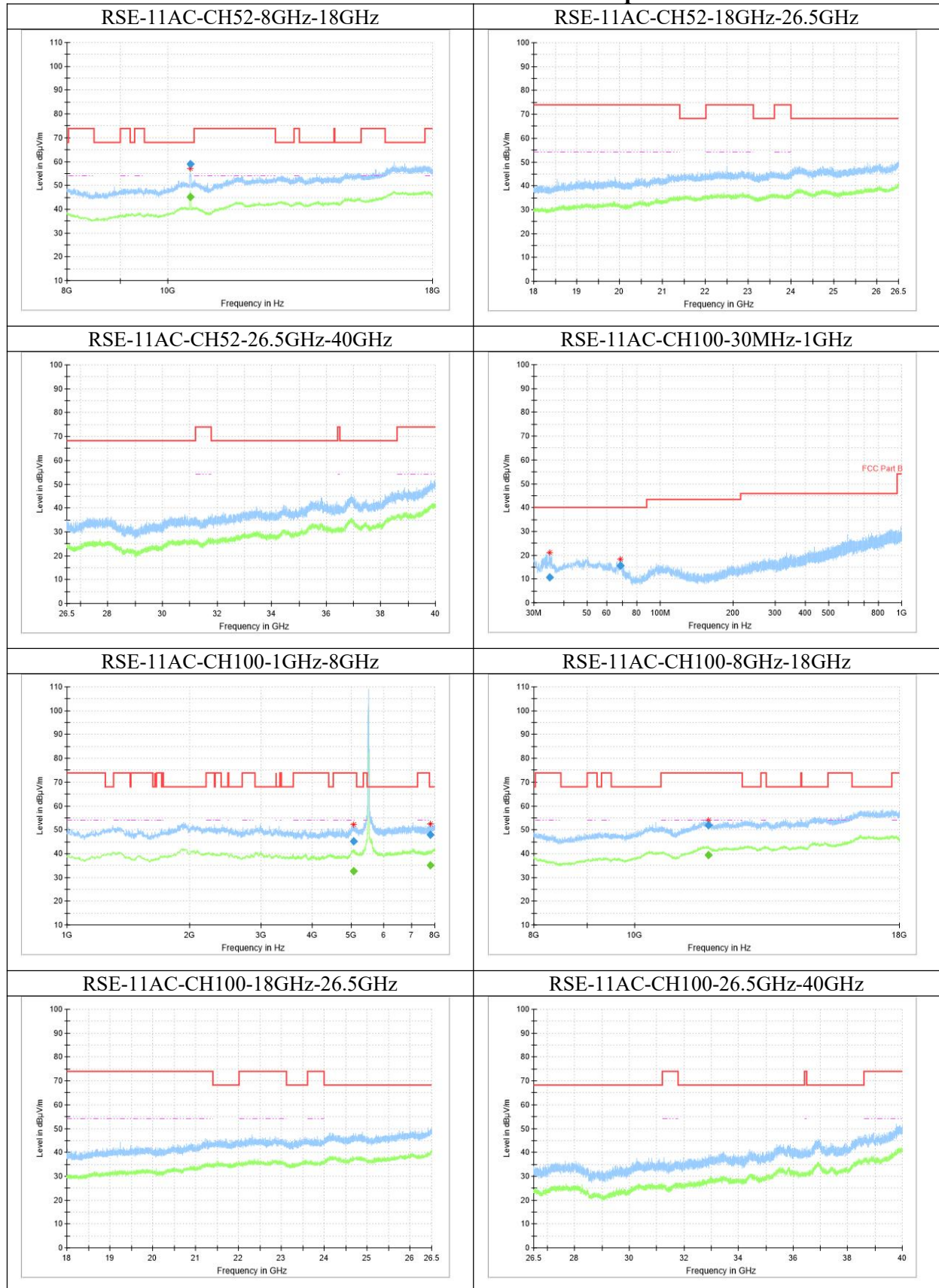
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RSE-11N(40M)-CH102-26.5GHz-40GHz

RSE-11AC-CH40-30MHz-1GHz

RSE-11AC-CH40-1GHz-8GHz

RSE-11AC-CH40-8GHz-18GHz

RSE-11AC-CH40-18GHz-26.5GHz

RSE-11AC-CH40-26.5GHz-40GHz

RSE-11AC-CH52-30MHz-1GHz

RSE-11AC-CH52-1GHz-8GHz


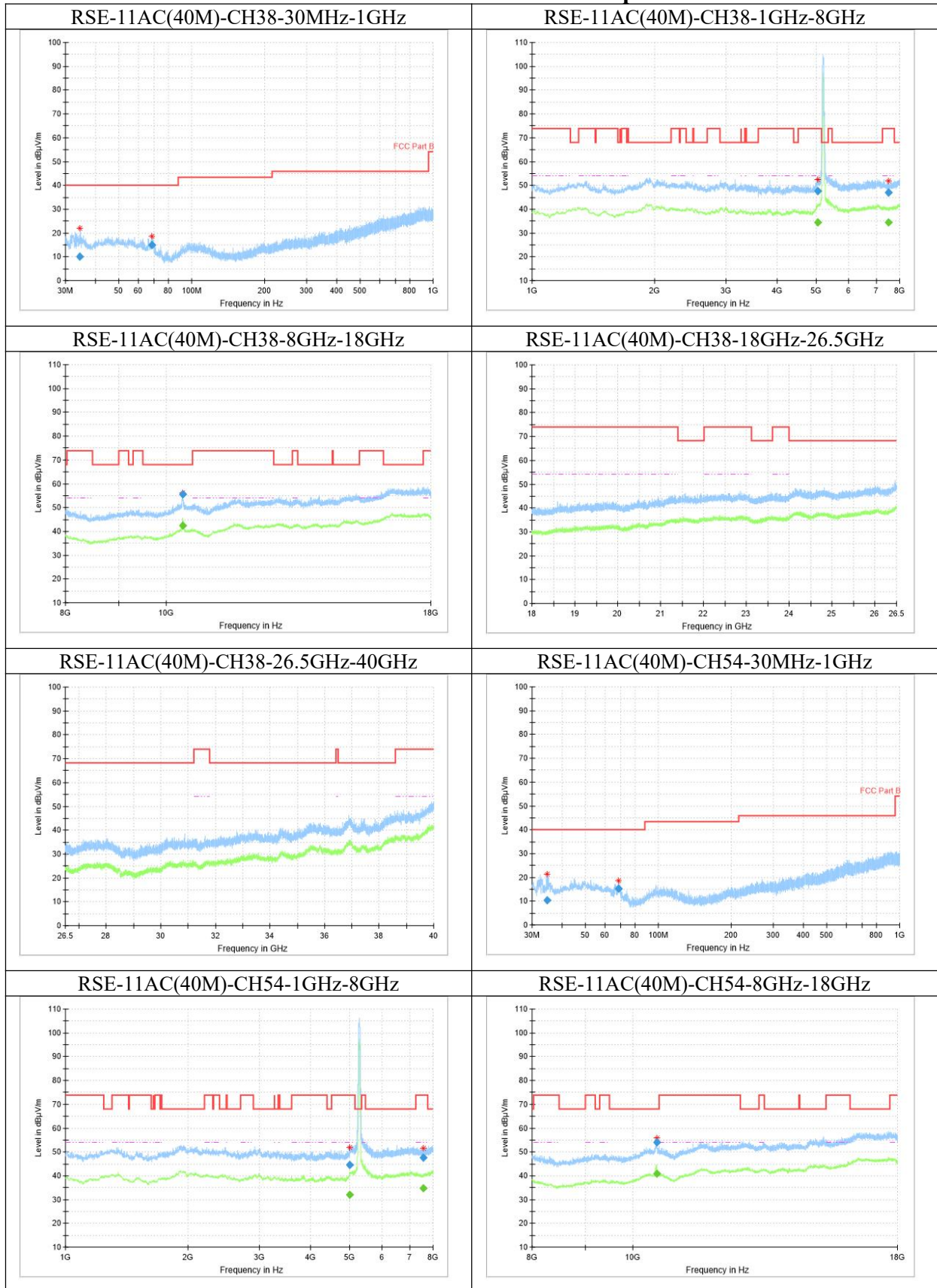
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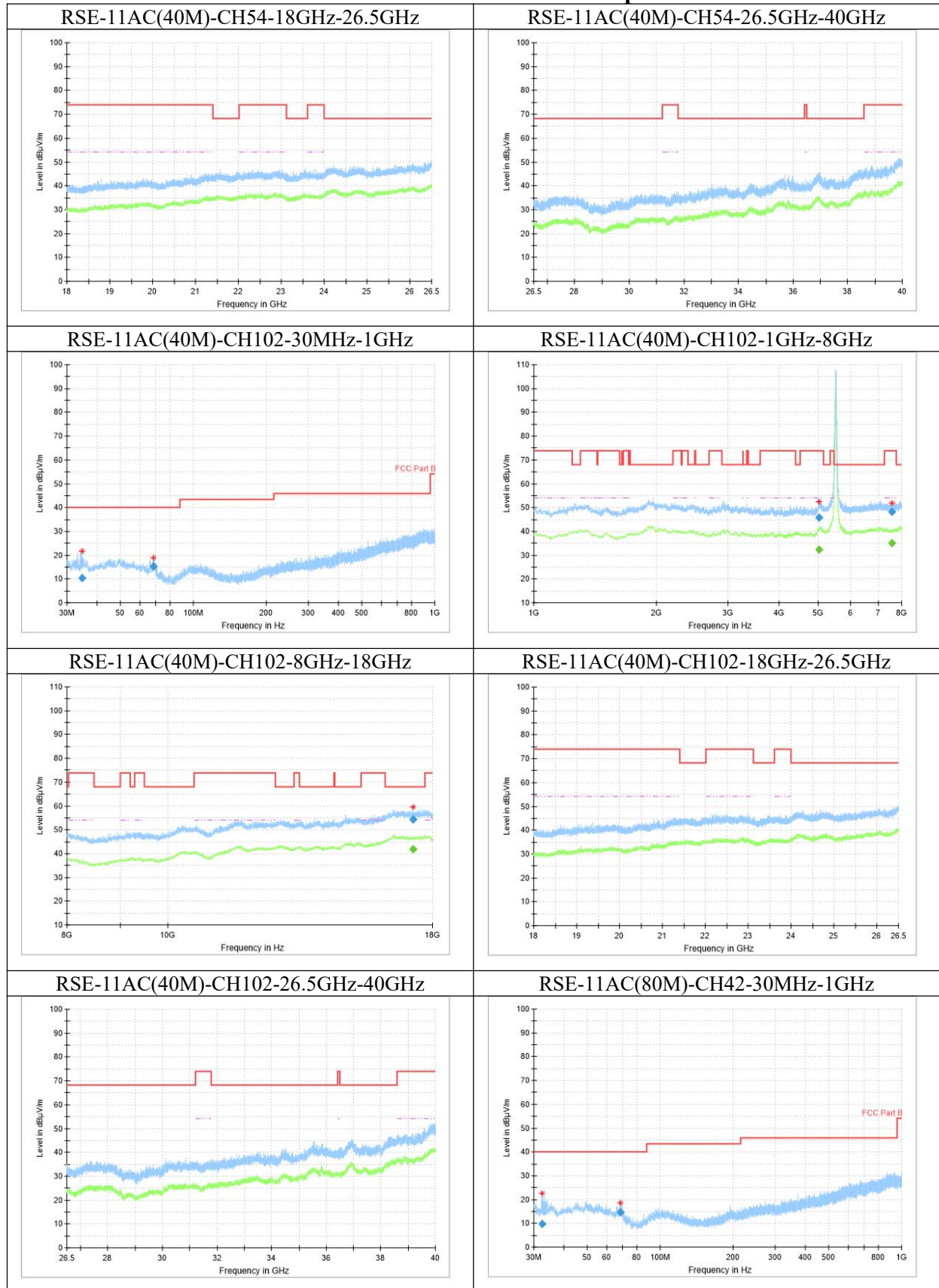
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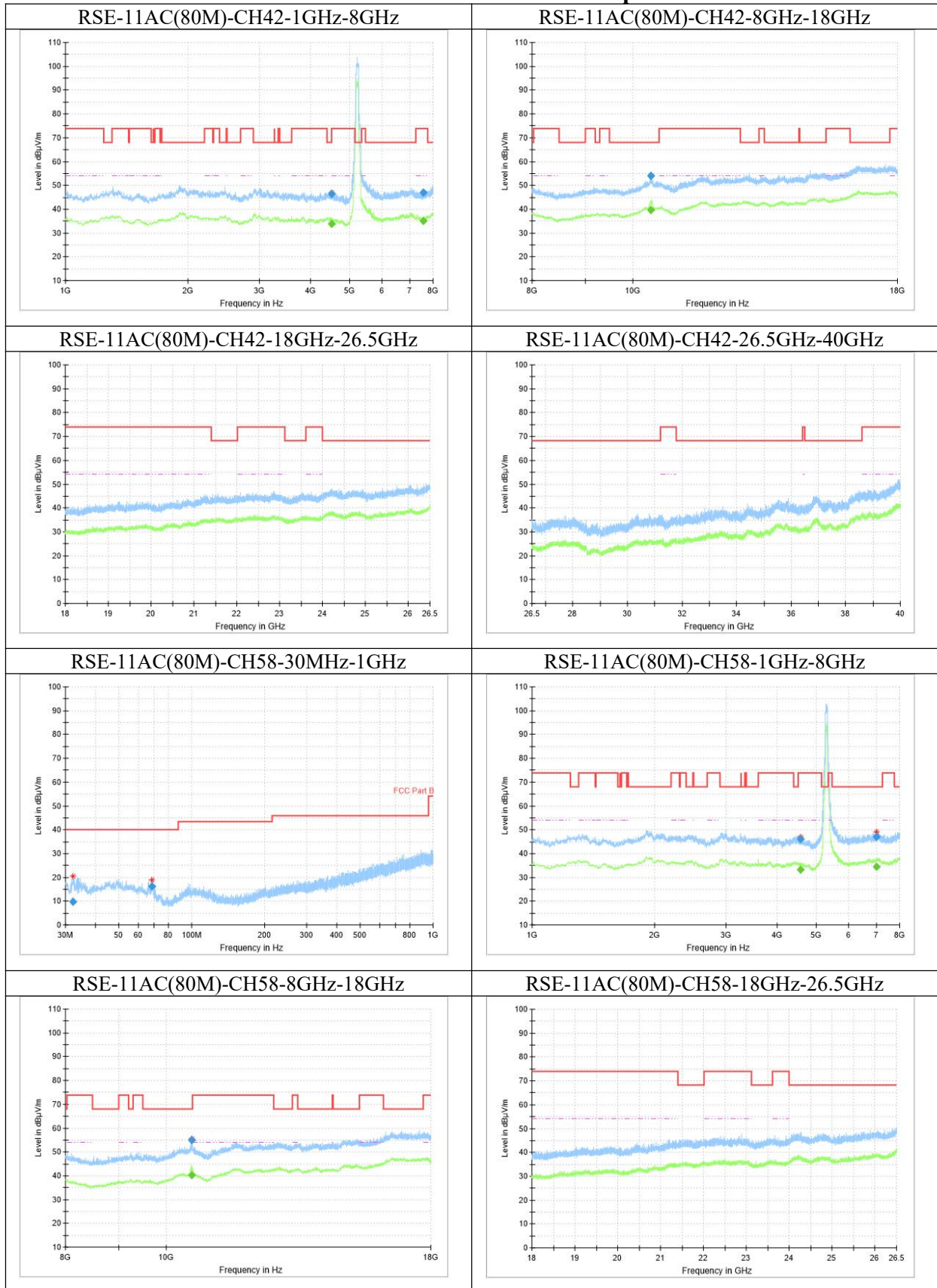
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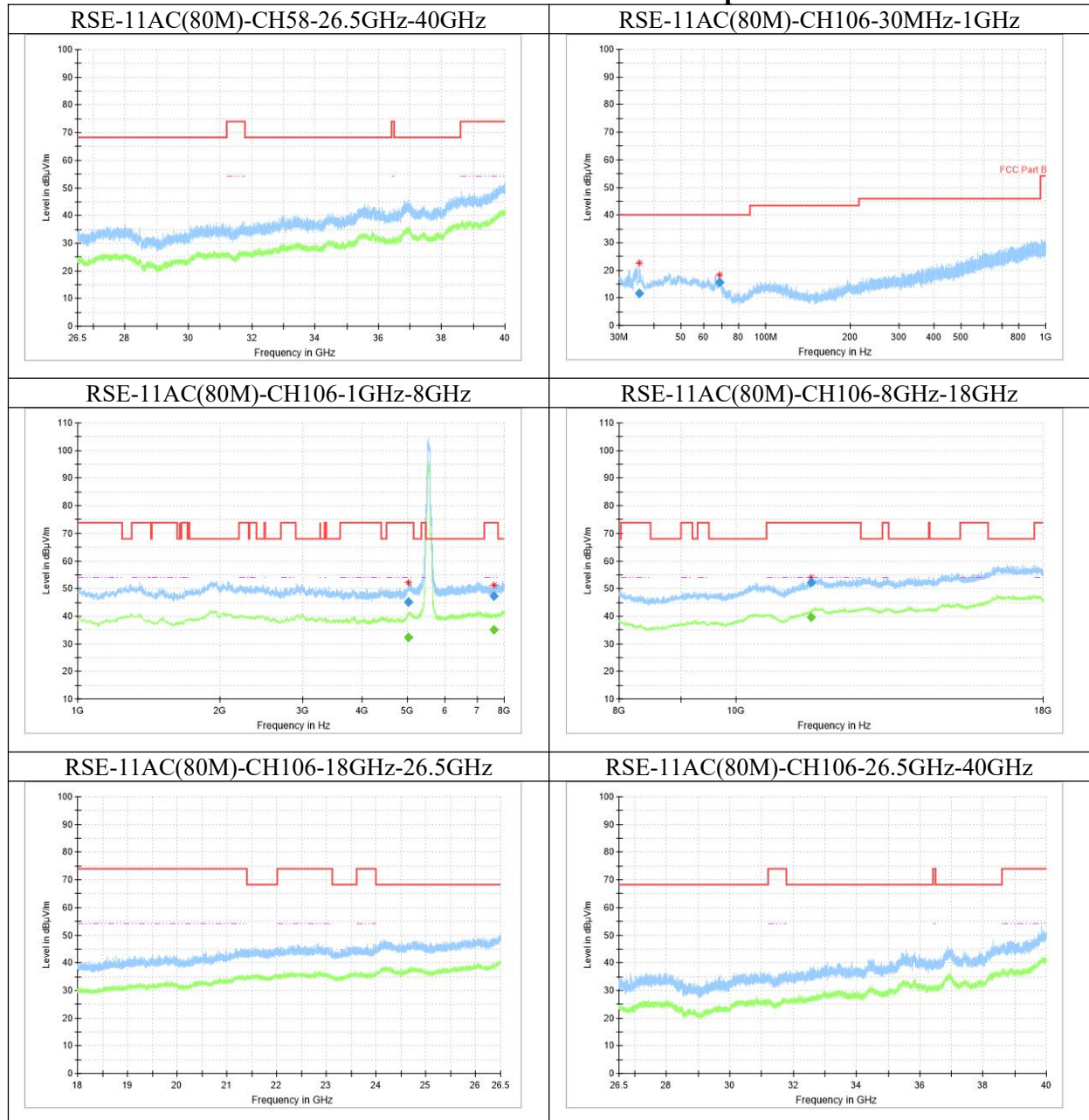
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RSE-11A-CH48-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.0	10.02	-15	25.02	29.98	40.00	H
69.1	14.8	-15	29.8	25.20	40.00	H

RSE-11A-CH48-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5037.6	46.38	5	41.38	27.62	74.00	V
7626.4	47.37	4	43.37	26.63	74.00	V

RSE-11A-CH48-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5037.6	32.77	5	27.77	21.23	54.00	V
7626.4	34.63	4	30.63	19.37	54.00	V

RSE-11A-CH48-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10482.8	60.6	8	52.6	7.60	68.20	V

RSE-11A-CH48-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10482.8	47.04	8	39.04	---	---	V

RSE-11A-CH52-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.5	10.27	-15	25.27	29.73	40.00	H
69.1	12.87	-15	27.87	27.13	40.00	H

RSE-11A-CH52-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5018.8	45.29	5	40.29	28.71	74.00	V

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5431.4	55	2	53	19.00	74.00	V
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RSE-11A-CH52-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5018.8	32.68	5	27.68	21.32	54.00	V
5431.4	42.5	2	40.5	11.50	54.00	V

RSE-11A-CH52-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10516.0	58.5	8	50.5	9.70	68.20	V

RSE-11A-CH52-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10516.0	44.25	8	36.25	---	---	V

RSE-11A-CH100-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
35.3	11.52	-15	26.52	28.48	40.00	H
68.3	15.83	-15	30.83	24.17	40.00	H

RSE-11A-CH100-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5045.9	45.66	5	40.66	28.34	74.00	V
7295.5	47.92	4	43.92	26.08	74.00	H

RSE-11A-CH100-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5045.9	32.79	5	27.79	21.21	54.00	V
7295.5	35.03	4	31.03	18.97	54.00	H

RSE-11A-CH100-8GHz-18GHz

Frequency	MaxPeak(dBμV/m)	ARpl (dB)	PMea	Margin(dB)	Limit(dBμV/m)	Polarity
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(MHz)			(dBμV/m)			
15354.5	51.83	14	37.83	22.17	74.00	H

RSE-11A-CH100-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
15354.5	39.33	14	25.33	14.67	54.00	H

RSE-11N-CH48-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.9	10.57	-15	25.57	29.43	40.00	H
69.0	15.71	-15	30.71	24.29	40.00	H

RSE-11N-CH48-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5053.9	46.41	5	41.41	27.59	74.00	V
7717.5	47.57	4	43.57	26.43	74.00	V

RSE-11N-CH48-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5053.9	33.8	5	28.8	20.20	54.00	V
7717.5	34.97	4	30.97	19.03	54.00	V

RSE-11N-CH48-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10476.5	60.67	8	52.67	7.53	68.20	V

RSE-11N-CH48-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10476.5	46.15	8	38.15	---	---	V

RSE-11N-CH52-30MHz-1GHz

Frequency	QuasiPeak(dBμV/m)	ARpl (dB)	PMea	Margin(dB)	Limit(dBμV/m)	Polarity
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(MHz)			(dBμV/m)			
32.3	9.89	-15	24.89	30.11	40.00	H
66.3	13.57	-14	27.57	26.43	40.00	H

RSE-11N-CH52-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5027.2	46.76	5	41.76	27.24	74.00	V
7322.2	47.28	4	43.28	26.72	74.00	V

RSE-11N-CH52-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5027.2	33.7	5	28.7	20.30	54.00	V
7322.2	34.81	4	30.81	19.19	54.00	V

RSE-11N-CH52-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10520.8	60.44	8	52.44	7.76	68.20	V

RSE-11N-CH52-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10520.8	46.68	8	38.68	---	---	V

RSE-11N-CH100-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.9	9.75	-15	24.75	30.25	40.00	H
68.4	14.58	-15	29.58	25.42	40.00	H

RSE-11N-CH100-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5021.1	44.73	5	39.73	29.27	74.00	V
7534.0	48.07	3	45.07	25.93	74.00	V

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RSE-11N-CH100-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5021.1	32.26	5	27.26	21.74	54.00	V
7534.0	34.12	3	31.12	19.88	54.00	V

RSE-11N-CH100-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11722.5	52.17	11	41.17	21.83	74.00	H

RSE-11N-CH100-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11722.5	39.38	11	28.38	14.62	54.00	H

RSE-11N(40M)-CH46-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
33.8	9.68	-15	24.68	30.32	40.00	H
68.5	15.37	-15	30.37	24.63	40.00	H

RSE-11N(40M)-CH46-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5060.4	48.79	5	43.79	25.21	74.00	V
7366.9	48.13	4	44.13	25.87	74.00	V

RSE-11N(40M)-CH46-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5060.4	36.09	5	31.09	17.91	54.00	V
7366.9	34.89	4	30.89	19.11	54.00	V

RSE-11N(40M)-CH46-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
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10460.2	56.53	8	48.53	11.67	68.20	V
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RSE-11N(40M)-CH46-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10460.2	42.11	8	34.11	---	---	V

RSE-11N(40M)-CH62-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.9	9.82	-15	24.82	30.18	40.00	H
49.1	14.09	-12	26.09	25.91	40.00	H
69.0	14.51	-15	29.51	25.49	40.00	H
910.1	24.25	2	22.25	21.75	46.00	H

RSE-11N(40M)-CH62-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5029.9	44.94	5	39.94	29.06	74.00	V
7014.2	47.45	4	43.45	20.75	68.20	V

RSE-11N(40M)-CH62-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5029.9	32.42	5	27.42	21.58	54.00	V
7014.2	34.3	4	30.3	---	---	V

RSE-11N(40M)-CH62-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10610.8	55.19	8	47.19	18.81	74.00	V

RSE-11N(40M)-CH62-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10610.8	41.95	8	33.95	12.05	54.00	V

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RSE-11N(40M)-CH102-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.7	10.75	-15	25.75	29.25	40.00	H
66.3	14.23	-14	28.23	25.77	40.00	H

RSE-11N(40M)-CH102-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5065.6	46.47	5	41.47	27.53	74.00	V
7344.1	46.88	4	42.88	27.12	74.00	V

RSE-11N(40M)-CH102-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5065.6	33.23	5	28.23	20.77	54.00	V
7344.1	34.42	4	30.42	19.58	54.00	V

RSE-11N(40M)-CH102-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
16521.5	55.36	18	37.36	12.84	68.20	H

RSE-11N(40M)-CH102-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
16521.5	42.49	18	24.49	---	---	H

RSE-11AC-CH40-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.5	10.63	-15	25.63	29.37	40.00	H
68.2	14.61	-15	29.61	25.39	40.00	H

RSE-11AC-CH40-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5020.5	45.52	5	40.52	28.48	74.00	H

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7602.4	48.51	4	44.51	25.49	74.00	V
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RSE-11AC-CH40-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5020.5	32.9	5	27.9	21.10	54.00	H
7602.4	34.62	4	30.62	19.38	54.00	V

RSE-11AC-CH40-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10404.8	60.63	8	52.63	7.57	68.20	V

RSE-11AC-CH40-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10404.8	44.91	8	36.91	---	---	V

RSE-11AC-CH52-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.3	10.51	-15	25.51	29.49	40.00	H
69.1	13.42	-15	28.42	26.58	40.00	H

RSE-11AC-CH52-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4990.8	44.96	4	40.96	29.04	74.00	V
7569.6	48.07	4	44.07	25.93	74.00	H

RSE-11AC-CH52-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4990.8	32.44	4	28.44	21.56	54.00	V
7569.6	35	4	31	19.00	54.00	H

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RSE-11AC-CH52-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10523.8	59.06	8	51.06	9.14	68.20	V

RSE-11AC-CH52-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10523.8	45.05	8	37.05	---	---	V

RSE-11AC-CH100-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.9	10.67	-15	25.67	29.33	40.00	H
68.3	15.72	-15	30.72	24.28	40.00	H

RSE-11AC-CH100-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5058.4	45.12	5	40.12	28.88	74.00	H
7783.1	47.93	4	43.93	20.27	68.20	V

RSE-11AC-CH100-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5058.4	32.72	5	27.72	21.28	54.00	H
7783.1	35.06	4	31.06	---	---	V

RSE-11AC-CH100-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11779.0	51.94	11	40.94	22.06	74.00	H

RSE-11AC-CH100-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11779.0	39.43	11	28.43	14.57	54.00	H

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RSE-11AC(40M)-CH38-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.4	10.16	-15	25.16	29.84	40.00	H
68.4	15.01	-15	30.01	24.99	40.00	H

RSE-11AC(40M)-CH38-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5028.9	47.59	5	42.59	26.41	74.00	V
7521.0	46.94	3	43.94	27.06	74.00	H

RSE-11AC(40M)-CH38-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5028.9	34.59	5	29.59	19.41	54.00	V
7521.0	34.38	3	31.38	19.62	54.00	H

RSE-11AC(40M)-CH38-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10378.5	55.61	8	47.61	12.59	68.20	V

RSE-11AC(40M)-CH38-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10378.5	42.55	8	34.55	---	---	V

RSE-11AC(40M)-CH54-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.5	10.33	-15	25.33	29.67	40.00	H
68.5	15.37	-15	30.37	24.63	40.00	H

RSE-11AC(40M)-CH54-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4991.6	44.41	4	40.41	29.59	74.00	V

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7583.9	47.75	4	43.75	26.25	74.00	V
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RSE-11AC(40M)-CH54-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4991.6	31.98	4	27.98	22.02	54.00	V
7583.9	34.74	4	30.74	19.26	54.00	V

RSE-11AC(40M)-CH54-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10549.5	53.91	8	45.91	14.29	68.20	V

RSE-11AC(40M)-CH54-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10549.5	40.96	8	32.96	---	---	V

RSE-11AC(40M)-CH102-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.7	10.44	-15	25.44	29.56	40.00	H
68.2	15.3	-15	30.3	24.70	40.00	H

RSE-11AC(40M)-CH102-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5020.1	45.82	5	40.82	28.18	74.00	V
7572.0	48.34	4	44.34	25.66	74.00	V

RSE-11AC(40M)-CH102-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5020.1	32.36	5	27.36	21.64	54.00	V
7572.0	34.97	4	30.97	19.03	54.00	V

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RSE-11AC(40M)-CH102-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
17248.2	54.34	18	36.34	13.86	68.20	H

RSE-11AC(40M)-CH102-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
17248.2	41.9	18	23.9	---	---	H

RSE-11AC(80M)-CH42-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
32.5	9.87	-15	24.87	30.13	40.00	H
68.5	14.65	-15	29.65	25.35	40.00	H

RSE-11AC(80M)-CH42-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4513.9	46.29	2	44.29	27.71	74.00	V
7576.0	47.06	4	43.06	26.94	74.00	H

RSE-11AC(80M)-CH42-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4513.9	33.91	2	31.91	20.09	54.00	V
7576.0	34.94	4	30.94	19.06	54.00	H

RSE-11AC(80M)-CH42-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10405.0	54.03	8	46.03	14.17	68.20	V

RSE-11AC(80M)-CH42-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10405.0	39.81	8	31.81	---	---	V

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RSE-11AC(80M)-CH58-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
32.3	9.78	-15	24.78	30.22	40.00	H
68.2	16.18	-15	31.18	23.82	40.00	H

RSE-11AC(80M)-CH58-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4571.2	46.16	1	45.16	27.84	74.00	V
6999.5	46.89	4	42.89	21.31	68.20	V

RSE-11AC(80M)-CH58-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
4571.2	33.18	1	32.18	20.82	54.00	V
6999.5	34.53	4	30.53	---	---	V

RSE-11AC(80M)-CH58-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10596.8	55.04	8	47.04	13.16	68.20	V

RSE-11AC(80M)-CH58-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10596.8	40.16	8	32.16	---	---	V

RSE-11AC(80M)-CH106-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
35.3	11.57	-15	26.57	28.43	40.00	H
68.2	15.62	-15	30.62	24.38	40.00	H

RSE-11AC(80M)-CH106-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5020.6	45.13	5	40.13	28.87	74.00	V

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7592.6	47.17	4	43.17	26.83	74.00	V
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RSE-11AC(80M)-CH106-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5020.6	32.36	5	27.36	21.64	54.00	V
7592.6	34.94	4	30.94	19.06	54.00	V

RSE-11AC(80M)-CH106-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11555.0	52.08	10	42.08	21.92	74.00	V

RSE-11AC(80M)-CH106-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11555.0	39.65	10	29.65	14.35	54.00	V

RSE-11AC(80M)-CH155-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
34.4	10.33	-15	25.33	29.67	40.00	H
69.1	14.74	-15	29.74	25.26	40.00	H

RSE-11AC(80M)-CH155-1GHz-8GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5424.9	51.14	2	49.14	22.86	74.00	V
7460.9	47.74	4	43.74	26.26	74.00	H

RSE-11AC(80M)-CH155-1GHz-8GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5424.9	38.11	2	36.11	15.89	54.00	V
7460.9	34.84	4	30.84	19.16	54.00	H

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RSE-11AC(80M)-CH155-8GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10253.5	50.43	8	42.43	17.78	68.20	H

RSE-11AC(80M)-CH155-8GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
10253.5	37.58	8	29.58	---	---	H

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6.9. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.(According to 15.407(g), RSS-247 6.2).

6.10. AC Powerline Conducted Emission

Specifications:	15.207, RSS Gen 6.8
DUT Serial Number:	25B02W000005#S07
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Method of Measurement: ANSI C63.10-2013-clause 6.2

1.The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2.f the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3.The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4.If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.³⁶ Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

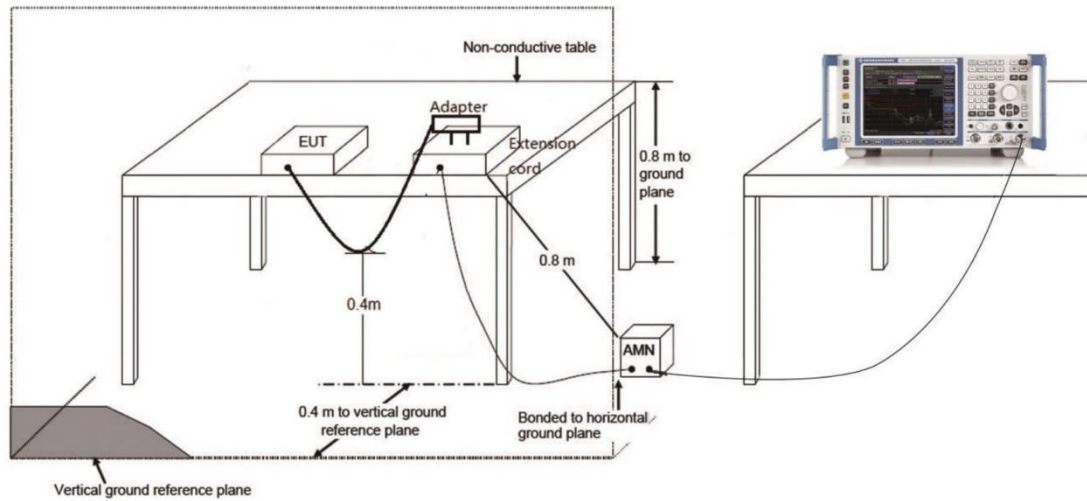
Measurement Uncertainty:

Measurement Uncertainty	1.97dB (k=2)
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Test Setup



Test Condition

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

(Quasi-peak-average Limit)

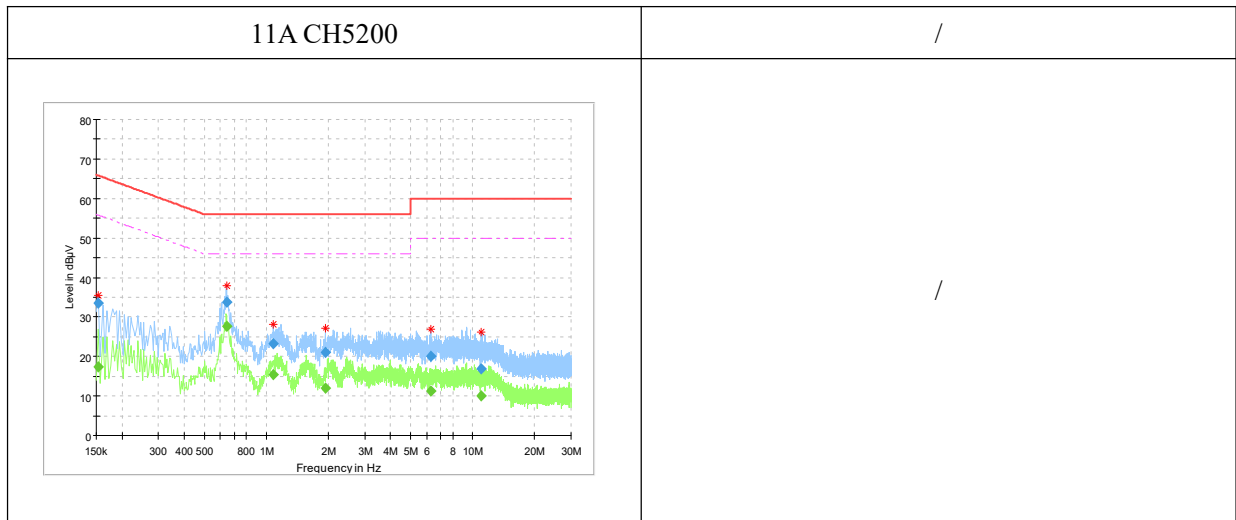
Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Conclusion
0.15 to 0.5	66 to 56	56 to 46	P
0.5 to 5	56	46	
5 to 30	60	50	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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Measurement Results:



Frequency (MHz)	QuasiPeak (dBμV)	Average (dμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.153731	33.62	---	65.80	32.18	15000.0	9.000	N	ON	10.1
0.153731	---	17.45	55.80	38.35	15000.0	9.000	N	ON	10.1
0.642525	---	27.76	46.00	18.24	15000.0	9.000	N	ON	10.1
0.642525	33.69	---	56.00	22.31	15000.0	9.000	N	ON	10.1
1.082813	---	15.51	46.00	30.49	15000.0	9.000	L1	ON	9.8
1.082813	23.13	---	56.00	32.87	15000.0	9.000	L1	ON	9.8
1.929806	21.00	---	56.00	35.00	15000.0	9.000	L1	ON	9.9
1.929806	---	11.98	46.00	34.02	15000.0	9.000	L1	ON	9.9
6.287906	---	11.35	50.00	38.65	15000.0	9.000	L1	ON	9.7
6.287906	20.09	---	60.00	39.91	15000.0	9.000	L1	ON	9.7
11.052713	---	9.93	50.00	40.07	15000.0	9.000	L1	ON	9.6
11.052713	16.87	---	60.00	43.13	15000.0	9.000	L1	ON	9.6

Note:

1. All modes have been tested and only the worst mode is recorded in the report.
2. L1 and N is all have been tested, the result of them is synthesized in the above data diagram.

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ANNEX A EUT Photos

See the document” 25B02W000005-External Photos”.

See the document” 25B02W000005-Internal Photos”.

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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