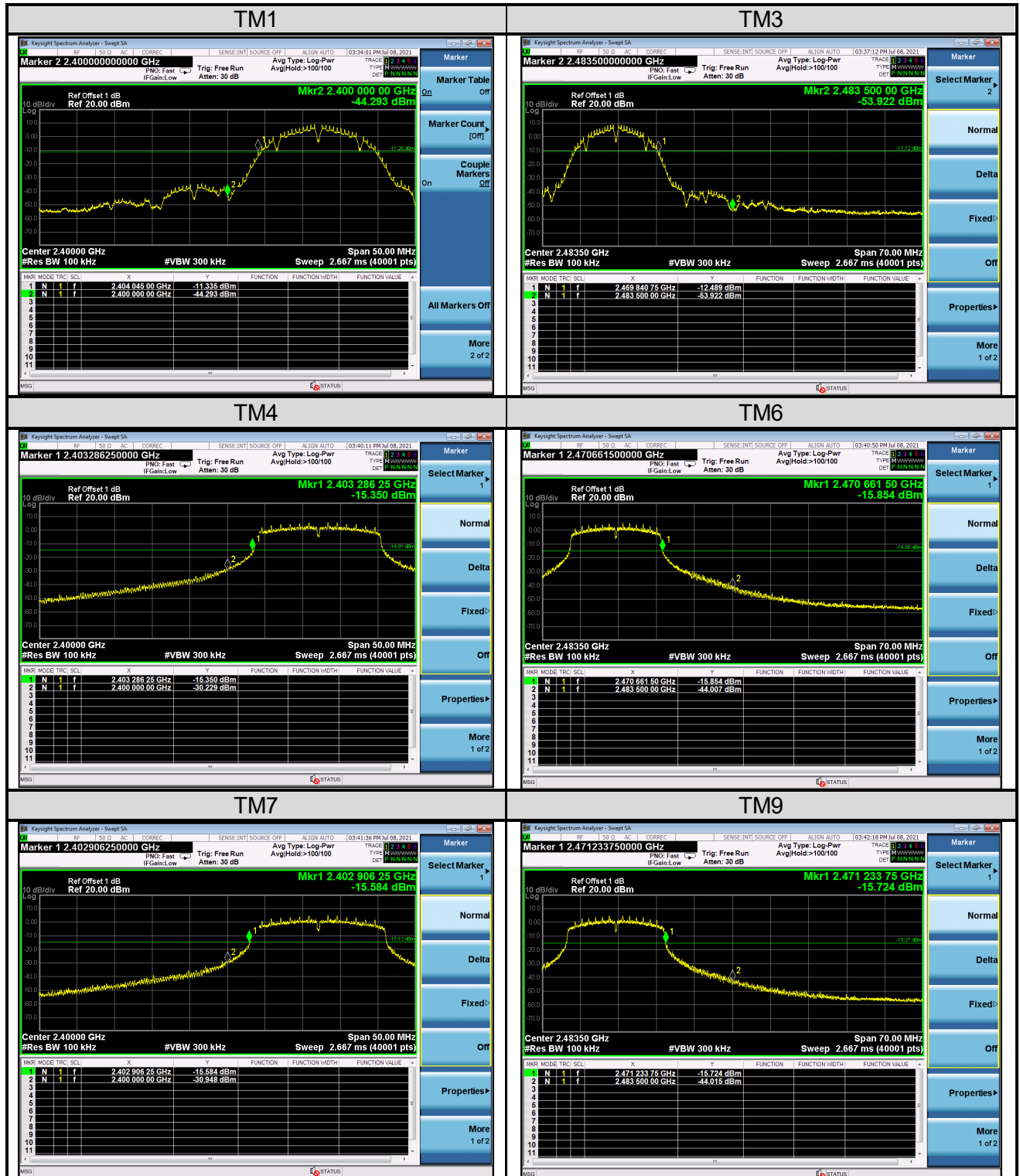


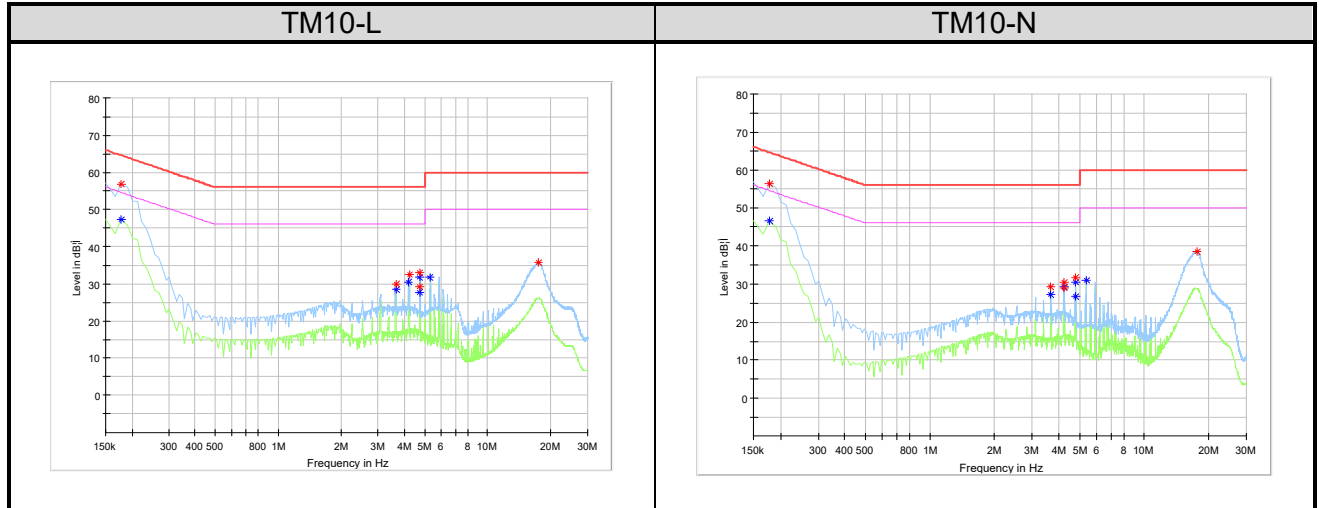
Figure 7: Conducted Band Edge


5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:**Pass**

Date of testing	:	2021-09-29
Ambient temperature	:	26.1°C
Relative humidity	:	32.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.207 (a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.8
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	AC 120V/60Hz
Test modes applied	:	TM10

Figure 8: Conducted Emission


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Comment
4.745625	29.24	---	56.00	26.76	L1	
3.654375	29.85	---	56.00	26.15	L1	
4.216875	32.51	---	56.00	23.49	L1	
4.768125	33.02	---	56.00	22.98	L1	
17.525625	35.73	---	60.00	24.27	L1	
0.178125	57.00	---	64.57	7.58	L1	
4.205625	---	30.49	46.00	15.51	L1	
5.330625	---	31.75	50.00	18.25	L1	
3.654375	---	28.43	46.00	17.57	L1	
4.745625	---	27.60	46.00	18.40	L1	
0.178125	---	47.36	54.57	7.21	L1	
4.768125	---	31.67	46.00	14.33	L1	
4.216875	28.87	---	56.00	27.13	N	
3.676875	29.12	---	56.00	26.88	N	
4.239375	30.44	---	56.00	25.56	N	
4.801875	31.78	---	56.00	24.22	N	
17.683125	38.57	---	60.00	21.43	N	
0.178125	56.42	---	64.57	8.15	N	
4.801875	---	30.59	46.00	15.41	N	
5.375625	---	31.09	50.00	18.91	N	
0.178125	---	46.67	54.57	7.90	N	
3.676875	---	27.08	46.00	18.92	N	
4.779375	---	26.73	46.00	19.27	N	
4.239375	---	29.29	46.00	16.71	N	

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	: 2021-08-05 ~ 2021-08-17
Ambient temperature	: 26.1°C
Relative humidity	: 32.7%
Atmospheric pressure	: 101kPa
Test requirement	: FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	: ANSI C63.10: 2013
Test voltage	: AC 120V/60Hz
Test modes applied	: TM1, TM3, TM4, TM6, TM7, TM9

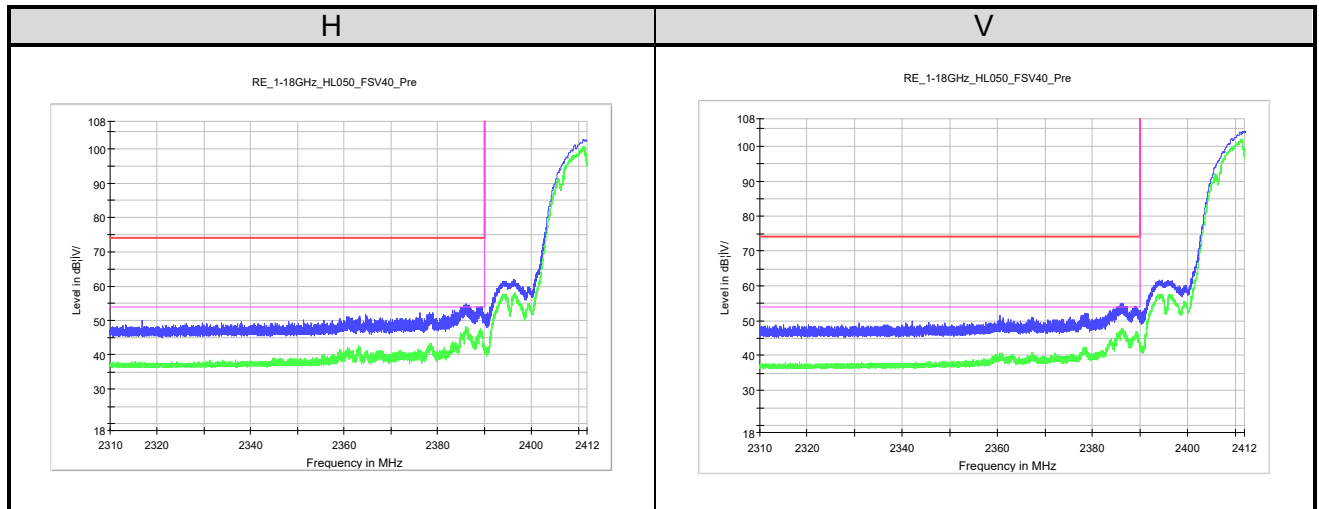
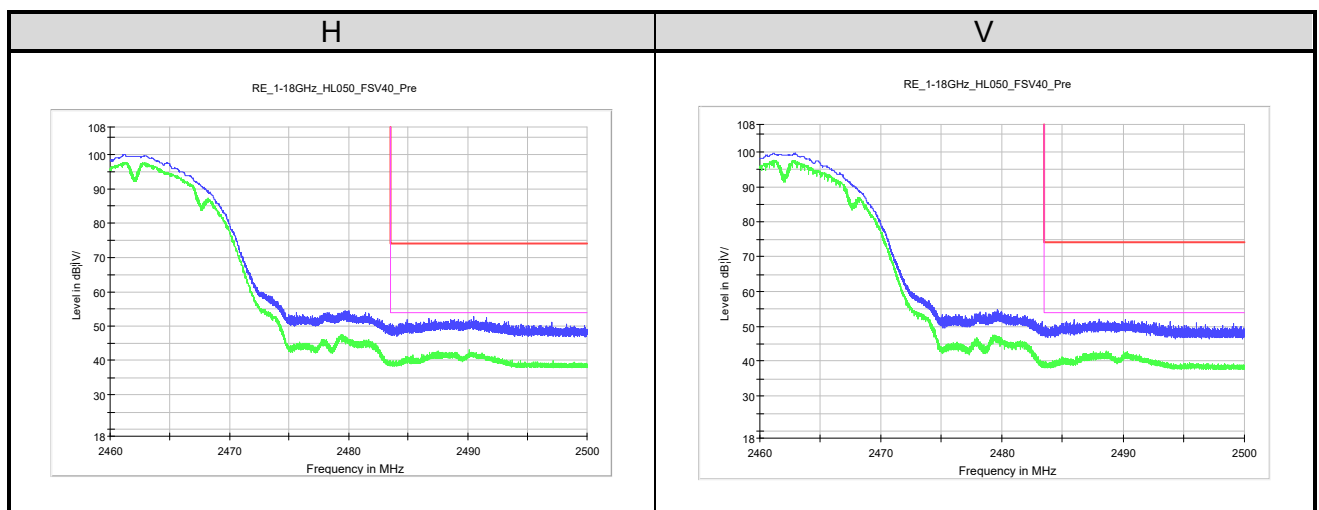
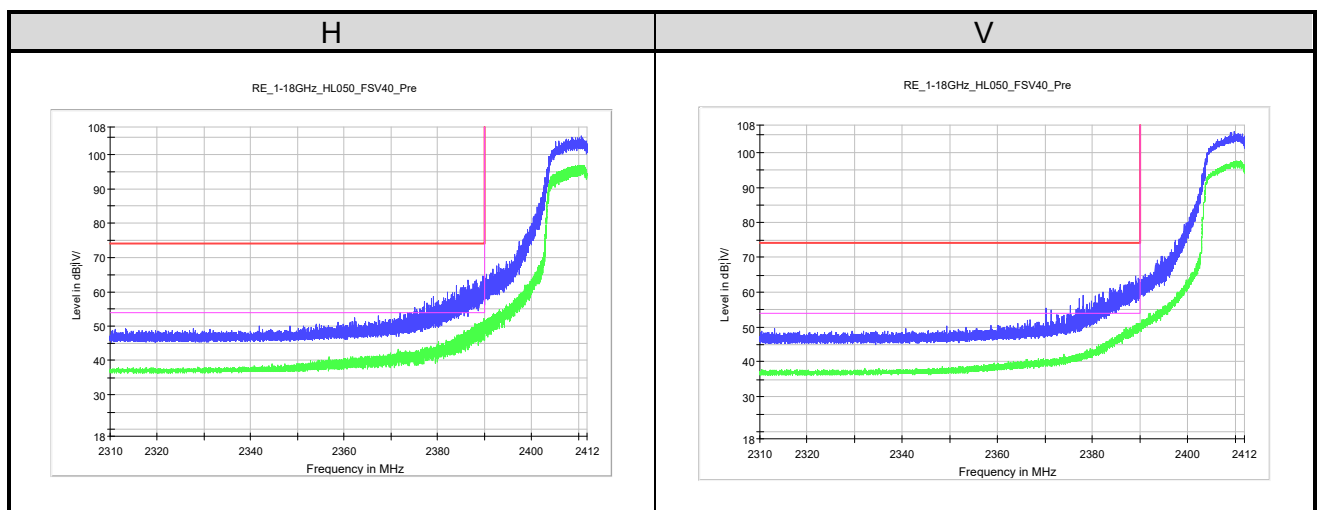
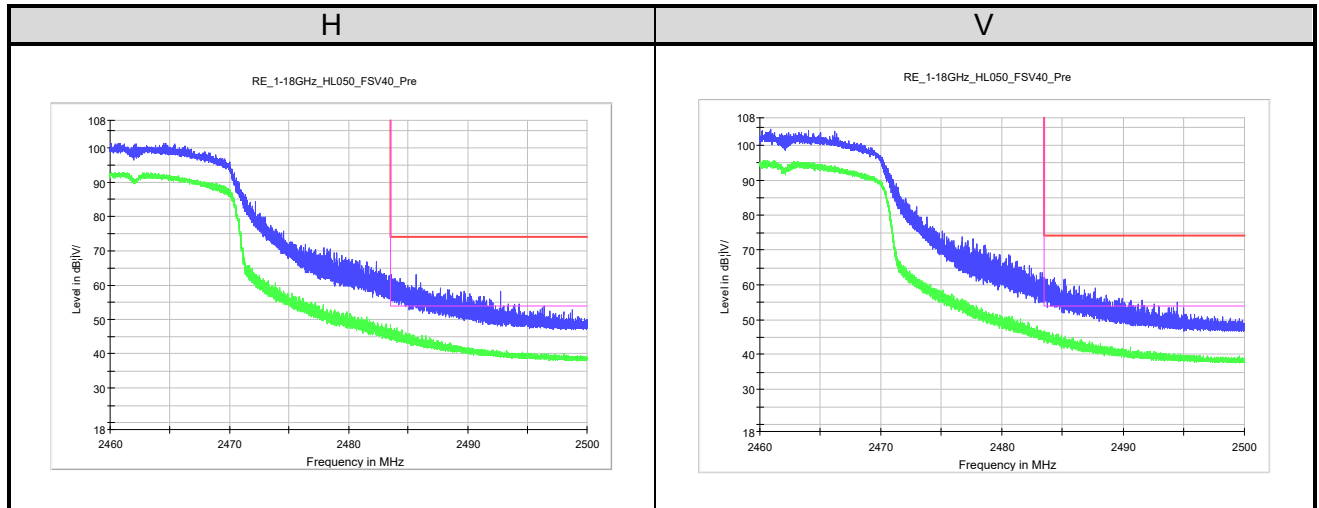
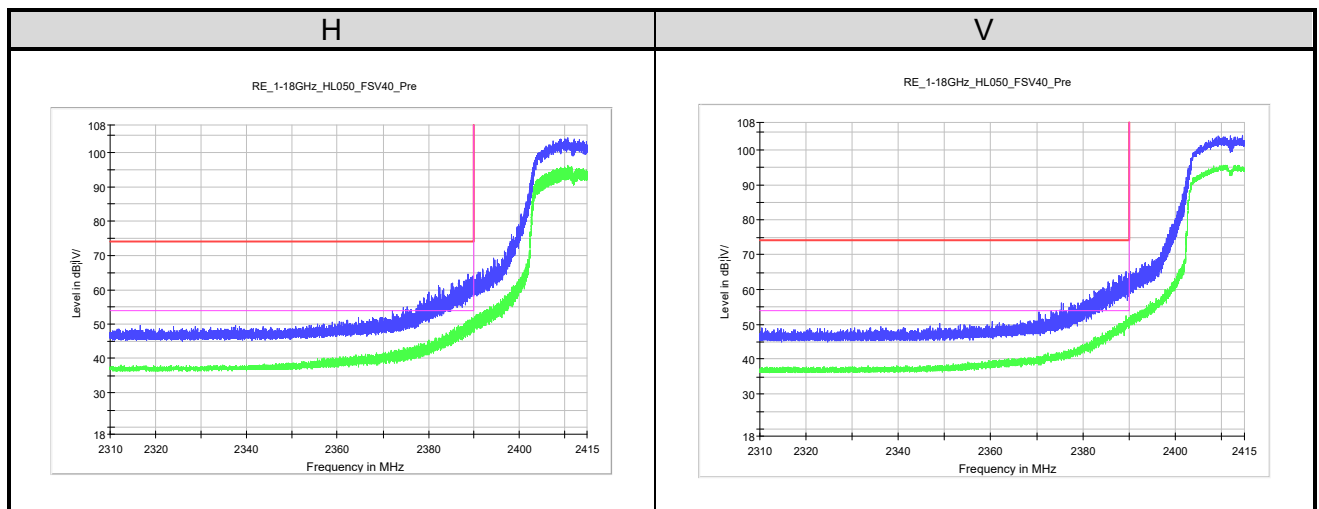
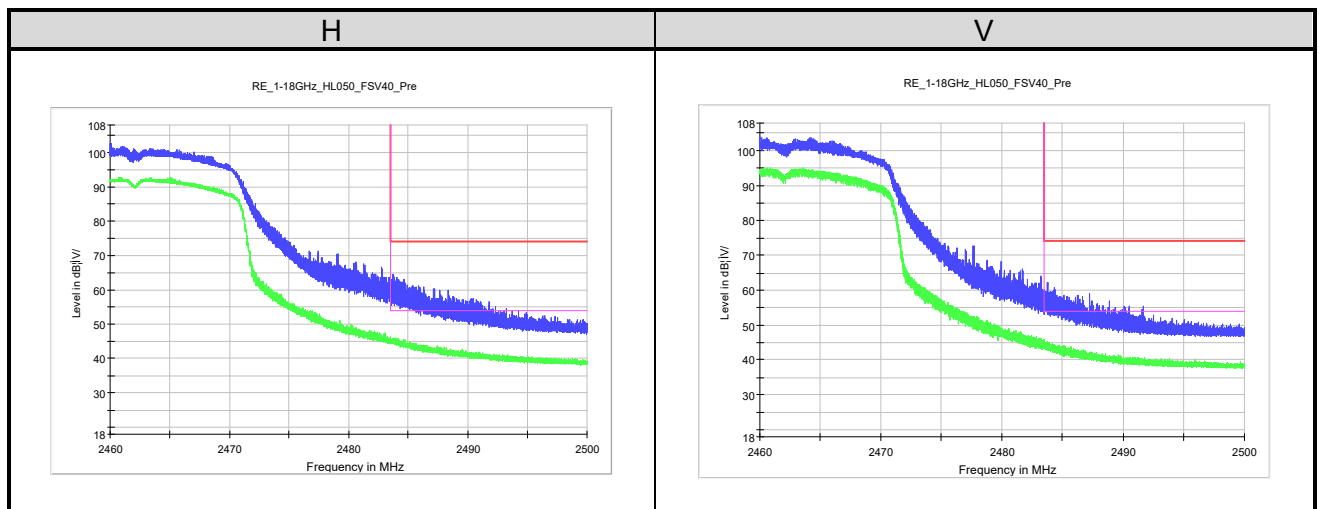
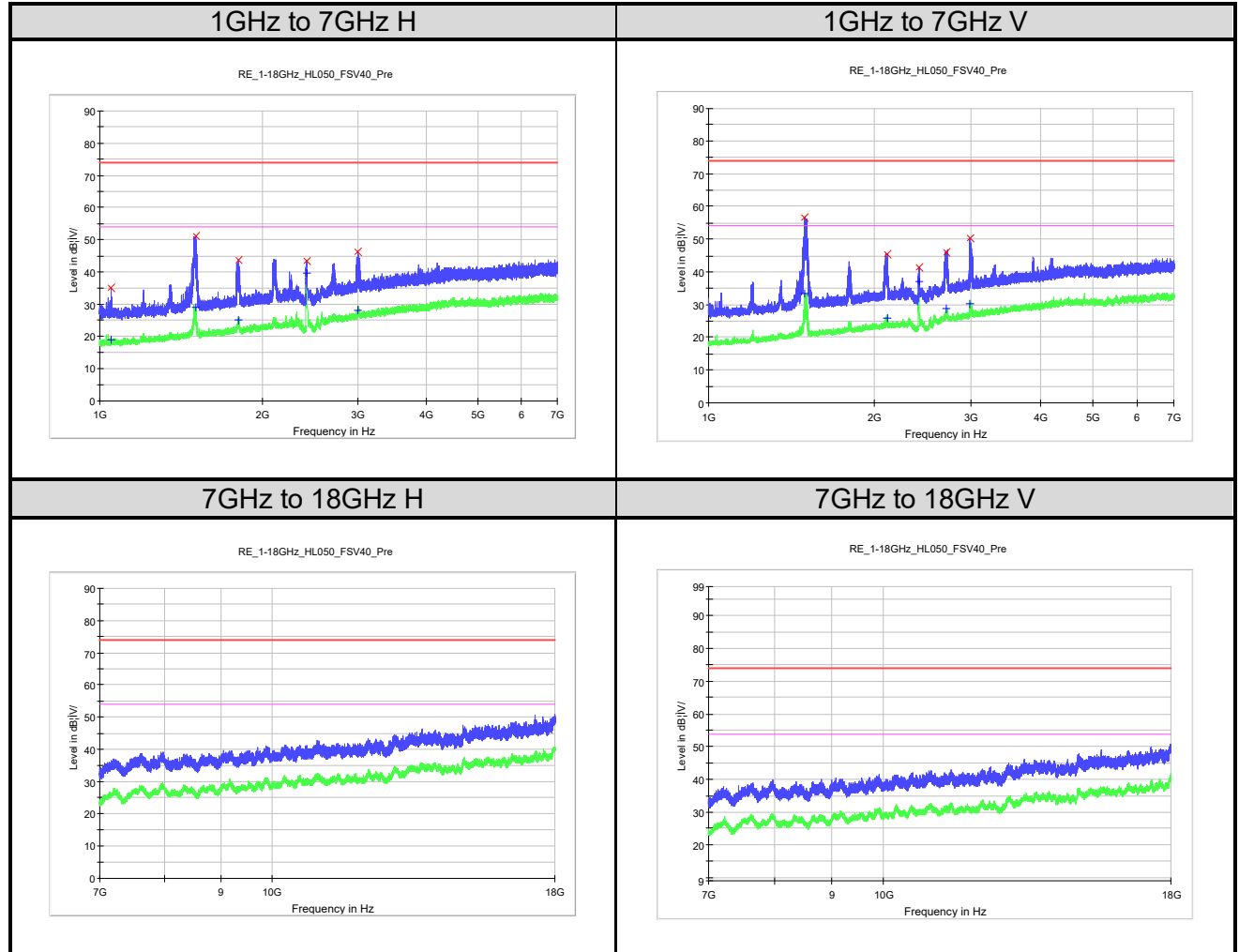
Figure 9: Radiated Band-Edge, TM1

Figure 10: Radiated Band-Edge, TM3

Figure 11: Radiated Band-Edge, TM4


Figure 12: Radiated Band-Edge, TM6

Figure 13: Radiated Band-Edge, TM7

Figure 14: Radiated Band-Edge, TM9


5.3.2 Radiated Spurious Emission

RESULT:**Pass**

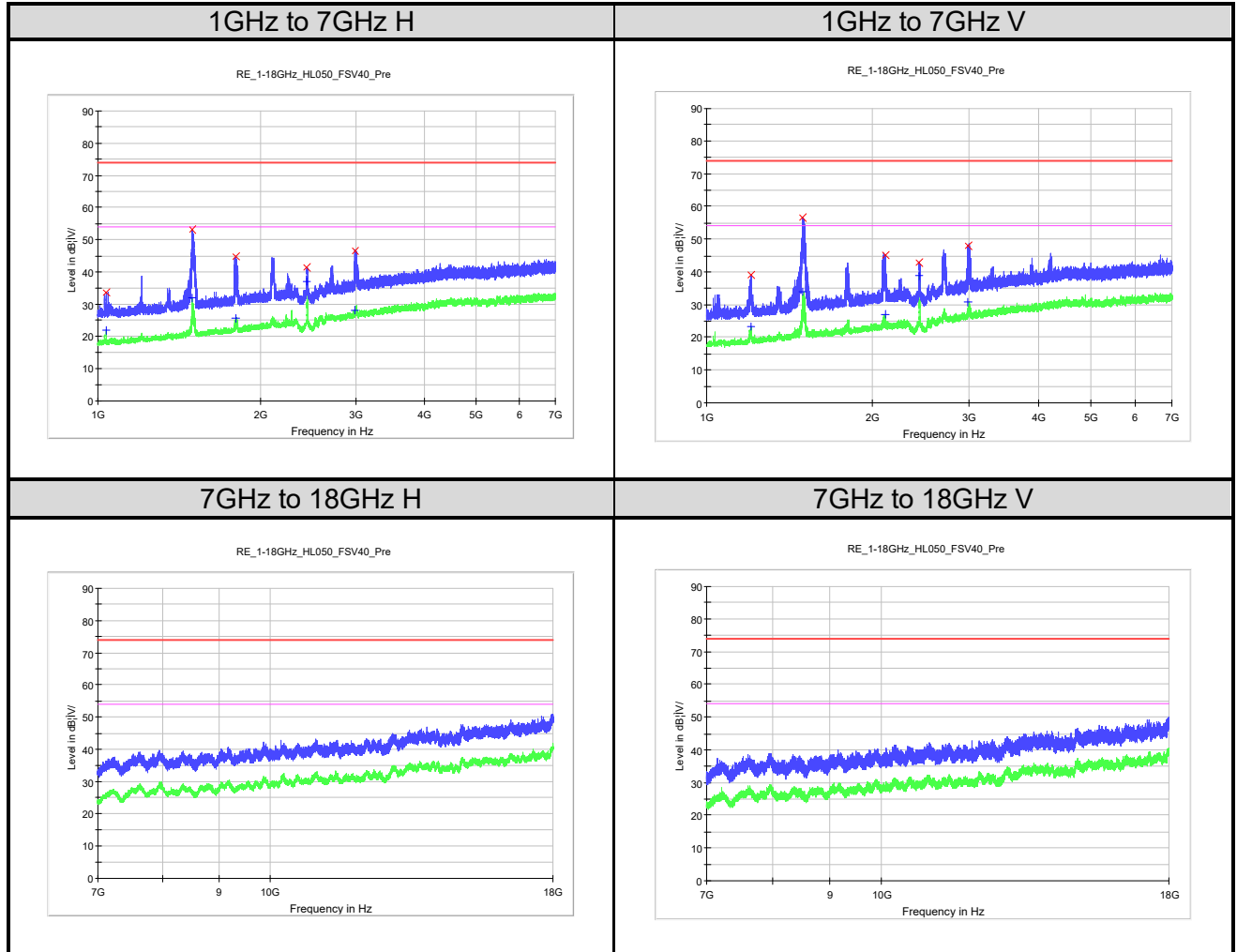
Date of testing	:	2021-08-05 ~ 2021-09-08
Ambient temperature	:	26.1°C
Relative humidity	:	32.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	AC 120V/60Hz
Test modes applied	:	TM1 to TM9

Figure 15: Radiated Spurious Emission, TM1, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1047.437500	35.1	H	-22.2	38.9	74.0
1505.125000	51.1	H	-18.8	22.9	74.0
1804.937500	43.6	H	-17.4	30.4	74.0
2410.187500	43.4	H	-14.4	30.6	74.0
2992.375000	46.3	H	-11.8	27.7	74.0
1495.750000	56.7	V	-18.9	17.3	74.0
2107.562500	45.5	V	-15.9	28.5	74.0
2409.250000	41.4	V	-14.4	32.6	74.0
2707.562500	46.1	V	-13.1	27.9	74.0
2986.562500	50.3	V	-11.8	23.7	74.0

AV

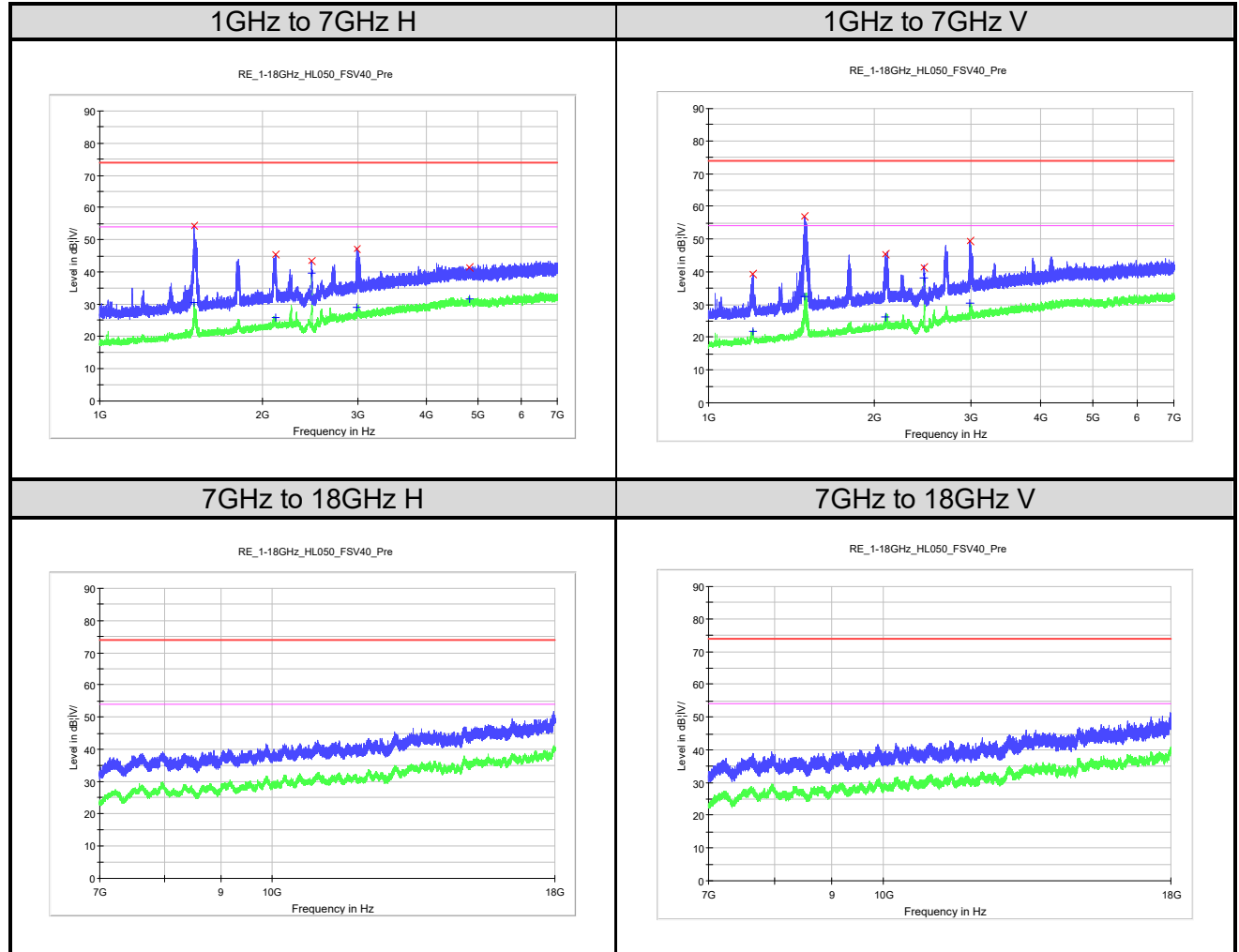
Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1047.437500	18.9	H	-22.2	35.1	54.0
1505.125000	29.0	H	-18.8	25.0	54.0
1804.937500	25.0	H	-17.4	29.0	54.0
2410.187500	39.8	H	-14.4	14.2	54.0
2992.375000	28.1	H	-11.8	25.9	54.0
1495.750000	33.3	V	-18.9	20.7	54.0
2107.562500	25.9	V	-15.9	28.1	54.0
2409.250000	37.0	V	-14.4	17.0	54.0
2707.562500	28.8	V	-13.1	25.2	54.0
2986.562500	30.1	V	-11.8	23.9	54.0

Figure 16: Radiated Spurious Emission, TM2, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1035.437500	33.7	H	-22.3	40.3	74.0
1494.437500	53.2	H	-18.9	20.8	74.0
1795.562500	44.9	H	-17.4	29.1	74.0
2435.687500	41.5	H	-14.3	32.5	74.0
2983.562500	46.7	H	-11.9	27.3	74.0
1202.500000	39.2	V	-21.2	34.8	74.0
1496.125000	56.6	V	-18.9	17.4	74.0
2108.687500	45.1	V	-15.9	28.9	74.0
2434.937500	42.8	V	-14.3	31.2	74.0
2988.437500	48.0	V	-11.8	26.0	74.0

AV

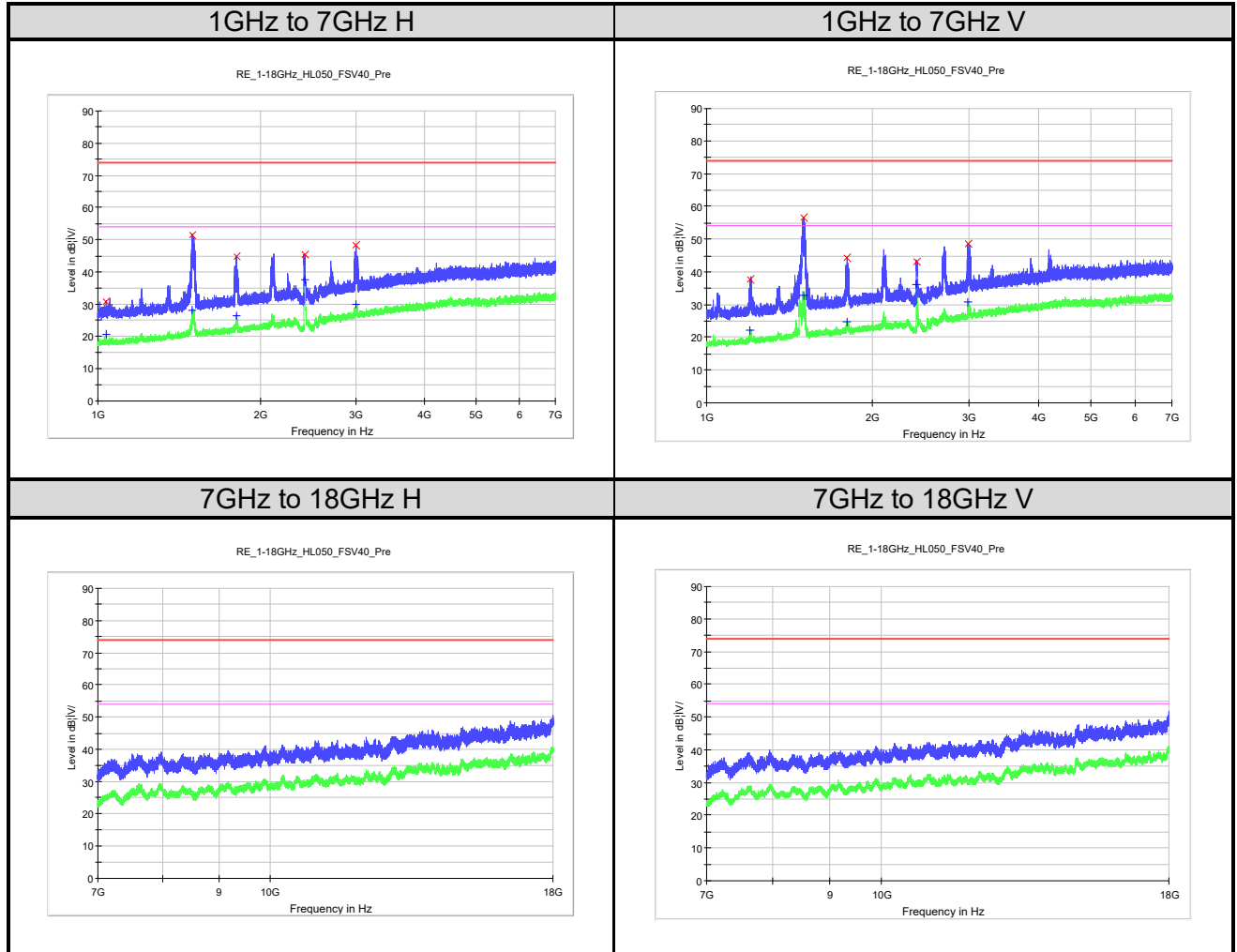
Frequency (MHz)	Average (dB μ V/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dB μ V/m)
1035.437500	21.9	H	-22.3	32.1	54.0
1494.437500	32.0	H	-18.9	22.0	54.0
1795.562500	25.7	H	-17.4	28.3	54.0
2435.687500	37.0	H	-14.3	17.0	54.0
2983.562500	28.1	H	-11.9	25.9	54.0
1202.500000	23.2	V	-21.2	30.8	54.0
1496.125000	33.9	V	-18.9	20.1	54.0
2108.687500	26.9	V	-15.9	27.1	54.0
2434.937500	38.8	V	-14.3	15.2	54.0
2988.437500	30.7	V	-11.8	23.3	54.0

Figure 17: Radiated Spurious Emission, TM3, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1495.375000	54.3	H	-18.9	19.7	74.0
2107.375000	45.3	H	-15.9	28.7	74.0
2462.875000	43.3	H	-14.3	30.7	74.0
2988.437500	47.3	H	-11.8	26.7	74.0
4823.875000	41.3	H	-6.5	32.7	74.0
1204.562500	39.3	V	-21.2	34.7	74.0
1495.000000	57.0	V	-18.9	17.0	74.0
2093.500000	45.5	V	-15.9	28.5	74.0
2460.250000	41.4	V	-14.3	32.6	74.0
2988.250000	49.5	V	-11.8	24.5	74.0

AV

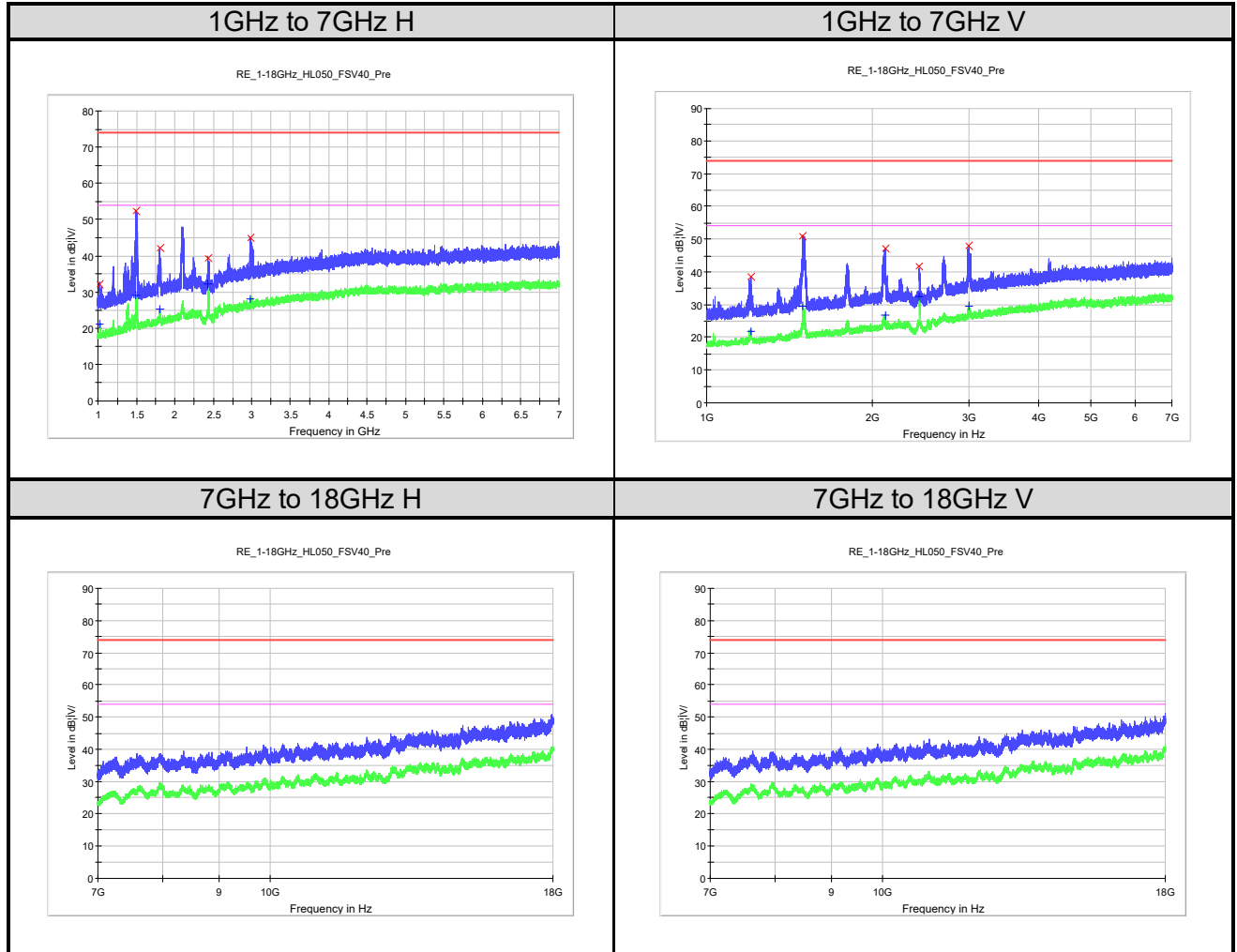
Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1495.375000	30.6	H	-18.9	23.4	54.0
2107.375000	25.8	H	-15.9	28.2	54.0
2462.875000	39.6	H	-14.3	14.4	54.0
2988.437500	29.1	H	-11.8	24.9	54.0
4823.875000	31.6	H	-6.5	22.4	54.0
1204.562500	21.9	V	-21.2	32.1	54.0
1495.000000	32.4	V	-18.9	21.6	54.0
2093.500000	26.2	V	-15.9	27.8	54.0
2460.250000	38.3	V	-14.3	15.7	54.0
2988.250000	30.4	V	-11.8	23.6	54.0

Figure 18: Radiated Spurious Emission, TM4, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1035.062500	30.9	H	-22.3	43.1	74.0
1495.375000	51.6	H	-18.9	22.4	74.0
1805.687500	44.9	H	-17.4	29.1	74.0
2407.562500	45.5	H	-14.4	28.5	74.0
2990.125000	48.3	H	-11.8	25.7	74.0
1197.437500	37.6	V	-21.3	36.4	74.0
1496.312500	56.6	V	-18.9	17.4	74.0
1795.750000	44.4	V	-17.4	29.6	74.0
2406.625000	43.2	V	-14.4	30.8	74.0
2986.375000	48.7	V	-11.8	25.3	74.0

AV

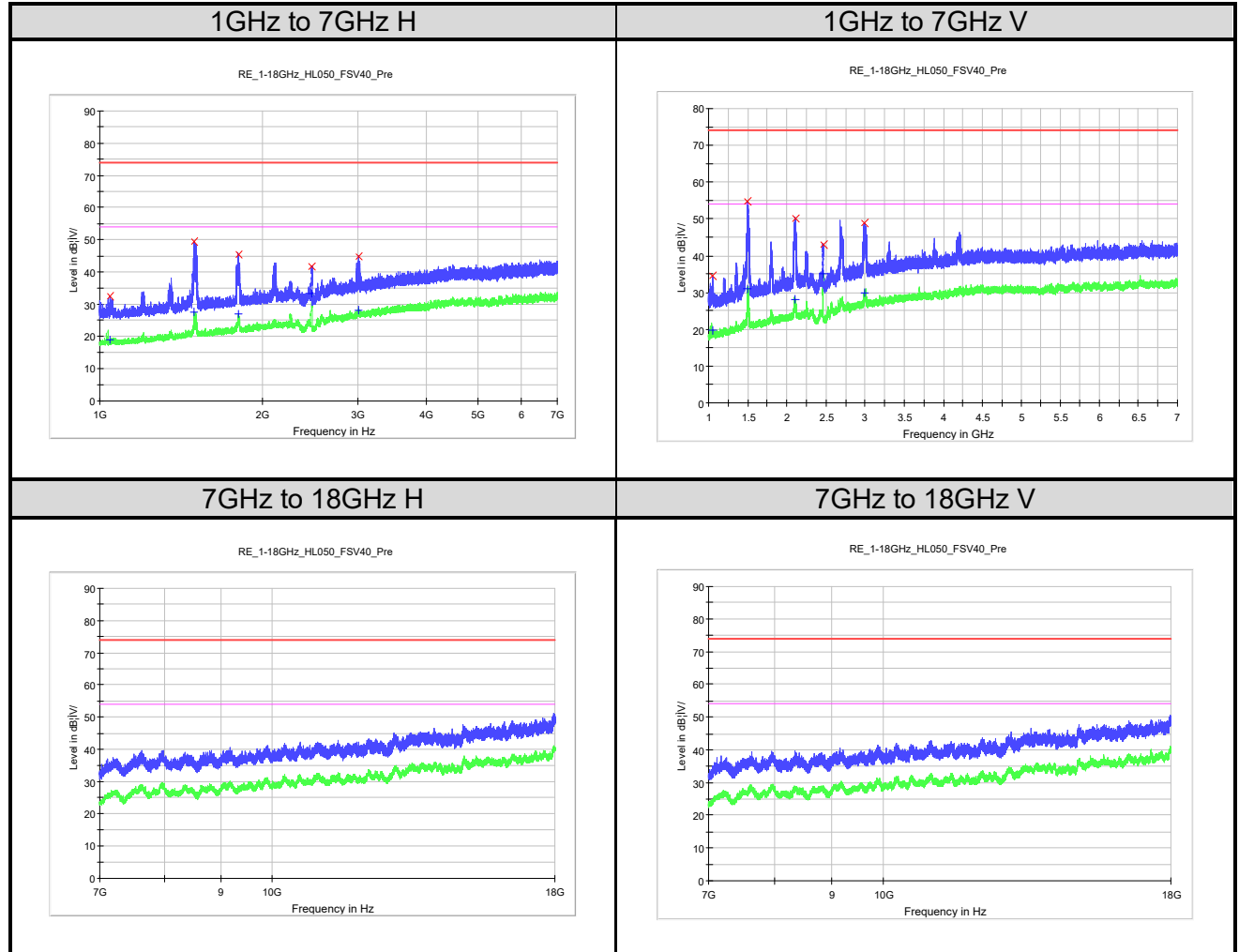
Frequency (MHz)	Average (dB μ V/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB μ V/m)
1035.062500	20.6	H	-22.3	33.4	54.0
1495.375000	28.1	H	-18.9	25.9	54.0
1805.687500	26.4	H	-17.4	27.6	54.0
2407.562500	37.6	H	-14.4	16.4	54.0
2990.125000	29.9	H	-11.8	24.1	54.0
1197.437500	22.0	V	-21.3	32.0	54.0
1496.312500	32.8	V	-18.9	21.2	54.0
1795.750000	24.6	V	-17.4	29.4	54.0
2406.625000	36.1	V	-14.4	17.9	54.0
2986.375000	30.9	V	-11.8	23.1	54.0

Figure 19: Radiated Spurious Emission, TM5, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1029.437500	32.3	H	-22.3	41.7	74.0
1494.625000	52.5	H	-18.9	21.5	74.0
1805.687500	42.2	H	-17.4	31.8	74.0
2431.000000	39.4	H	-14.4	34.6	74.0
2988.437500	45.1	H	-11.8	28.9	74.0
1204.562500	38.6	V	-21.2	35.4	74.0
1495.562500	51.0	V	-18.9	23.0	74.0
2106.625000	47.2	V	-15.9	26.8	74.0
2434.562500	41.7	V	-14.3	32.3	74.0
2990.500000	47.9	V	-11.8	26.1	74.0

AV

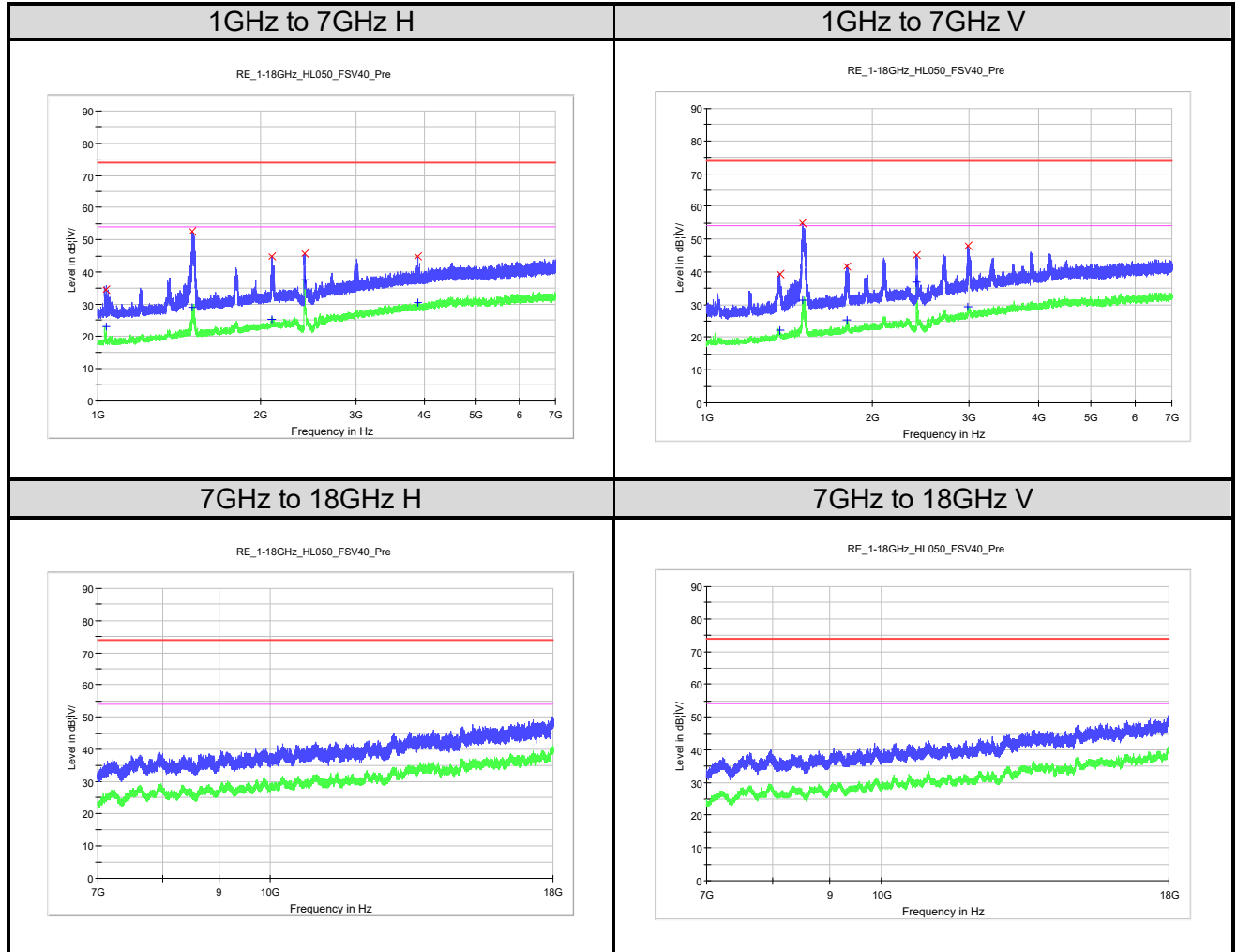
Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1029.437500	21.2	H	-22.3	32.8	54.0
1494.625000	29.2	H	-18.9	24.8	54.0
1805.687500	25.3	H	-17.4	28.7	54.0
2431.000000	32.1	H	-14.4	21.9	54.0
2988.437500	28.0	H	-11.8	26.0	54.0
1204.562500	21.8	V	-21.2	32.2	54.0
1495.562500	29.7	V	-18.9	24.3	54.0
2106.625000	26.8	V	-15.9	27.2	54.0
2434.562500	32.5	V	-14.3	21.5	54.0
2990.500000	29.7	V	-11.8	24.3	54.0

Figure 20: Radiated Spurious Emission, TM6, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1043.125000	32.5	H	-22.2	41.5	74.0
1494.625000	49.4	H	-18.9	24.6	74.0
1805.312500	45.5	H	-17.4	28.5	74.0
2460.812500	41.7	H	-14.3	32.3	74.0
3011.500000	45.0	H	-11.7	29.0	74.0
1053.625000	34.4	V	-22.1	39.6	74.0
1495.562500	54.7	V	-18.9	19.3	74.0
2105.875000	50.2	V	-15.9	23.8	74.0
2463.250000	42.9	V	-14.3	31.1	74.0
2993.312500	48.8	V	-11.8	25.2	74.0

AV

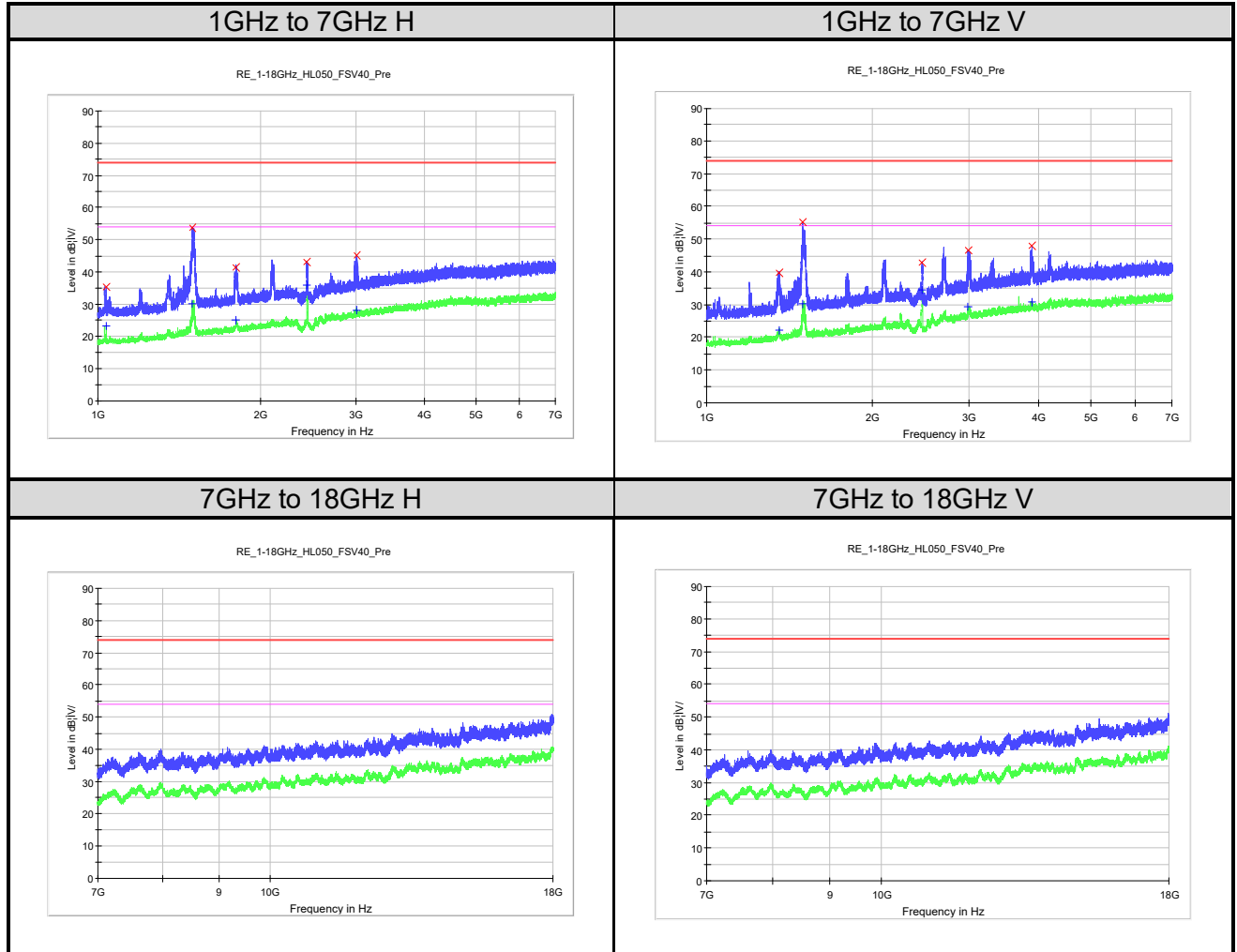
Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1043.125000	19.0	H	-22.2	35.0	54.0
1494.625000	27.6	H	-18.9	26.4	54.0
1805.312500	27.1	H	-17.4	26.9	54.0
2460.812500	33.4	H	-14.3	20.6	54.0
3011.500000	28.1	H	-11.7	25.9	54.0
1053.625000	19.7	V	-22.1	34.3	54.0
1495.562500	31.0	V	-18.9	23.0	54.0
2105.875000	28.1	V	-15.9	25.9	54.0
2463.250000	35.1	V	-14.3	18.9	54.0
2993.312500	30.0	V	-11.8	24.0	54.0

Figure 21: Radiated Spurious Emission, TM7, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1034.875000	34.5	H	-22.3	39.5	74.0
1495.750000	52.5	H	-18.9	21.5	74.0
2093.312500	44.8	H	-15.9	29.2	74.0
2408.875000	45.7	H	-14.4	28.3	74.0
3895.375000	44.8	H	-8.7	29.2	74.0
1356.437500	39.4	V	-20.0	34.6	74.0
1495.000000	54.8	V	-18.9	19.2	74.0
1794.437500	41.8	V	-17.4	32.2	74.0
2407.375000	45.1	V	-14.4	28.9	74.0
2983.375000	47.9	V	-11.9	26.1	74.0

AV

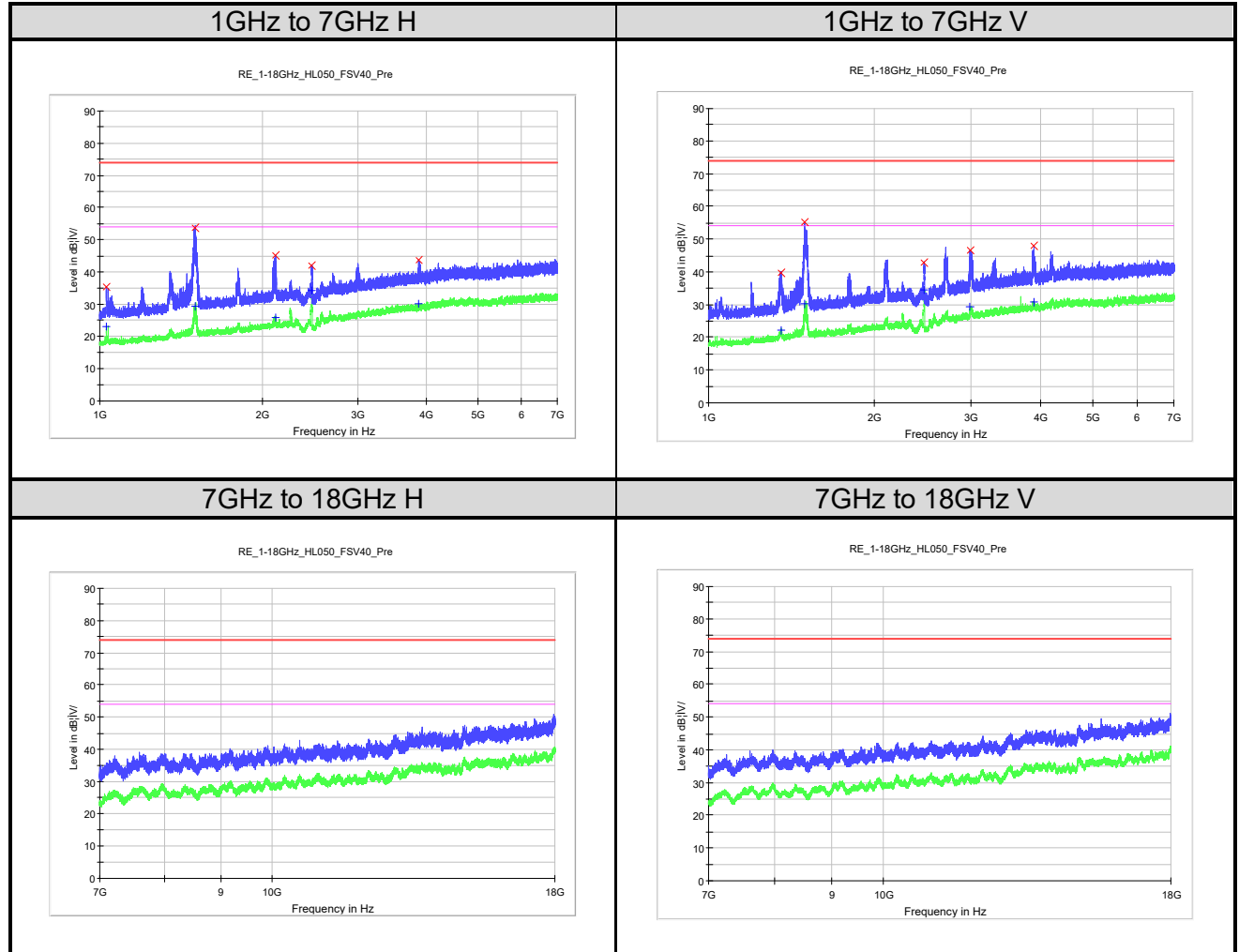
Frequency (MHz)	Average (dB μ V/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB μ V/m)
1034.875000	23.0	H	-22.3	31.0	54.0
1495.750000	29.0	H	-18.9	25.0	54.0
2093.312500	25.4	H	-15.9	28.6	54.0
2408.875000	37.7	H	-14.4	16.3	54.0
3895.375000	30.4	H	-8.7	23.6	54.0
1356.437500	22.2	V	-20.0	31.8	54.0
1495.000000	31.4	V	-18.9	22.6	54.0
1794.437500	25.3	V	-17.4	28.7	54.0
2407.375000	36.8	V	-14.4	17.2	54.0
2983.375000	29.2	V	-11.9	24.8	54.0

Figure 22: Radiated Spurious Emission, TM8, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1035.250000	35.4	H	-22.3	38.6	74.0
1495.750000	53.8	H	-18.9	20.2	74.0
1795.000000	41.5	H	-17.4	32.5	74.0
2431.375000	43.0	H	-14.4	31.0	74.0
3012.062500	45.2	H	-11.7	28.8	74.0
1353.625000	39.8	V	-20.1	34.2	74.0
1495.937500	55.3	V	-18.9	18.7	74.0
2463.062500	42.9	V	-14.3	31.1	74.0
2988.625000	46.5	V	-11.8	27.5	74.0
3897.062500	47.9	V	-8.7	26.1	74.0

AV

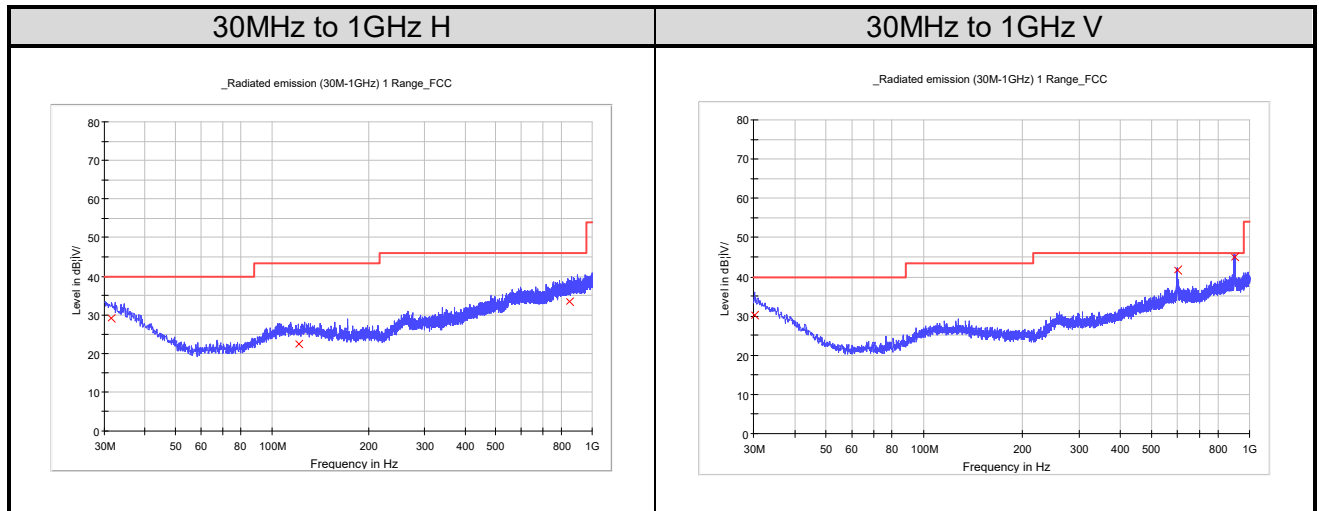
Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1035.250000	23.2	H	-22.3	30.8	54.0
1495.750000	30.1	H	-18.9	23.9	54.0
1795.000000	25.0	H	-17.4	29.0	54.0
2431.375000	35.9	H	-14.4	18.1	54.0
3012.062500	28.1	H	-11.7	25.9	54.0
1353.625000	22.2	V	-20.1	31.8	54.0
1495.937500	30.2	V	-18.9	23.8	54.0
2463.062500	34.6	V	-14.3	19.4	54.0
2988.625000	29.3	V	-11.8	24.7	54.0
3897.062500	30.8	V	-8.7	23.2	54.0

Figure 23: Radiated Spurious Emission, TM9, 1GHz to 18GHz

Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1029.250000	35.3	H	-22.3	38.7	74.0
1496.500000	53.8	H	-18.9	20.2	74.0
2106.812500	45.2	H	-15.9	28.8	74.0
2464.000000	41.9	H	-14.3	32.1	74.0
3887.125000	43.7	H	-8.7	30.3	74.0
1353.625000	39.8	V	-20.1	34.2	74.0
1495.937500	55.3	V	-18.9	18.7	74.0
2463.062500	42.9	V	-14.3	31.1	74.0
2988.625000	46.5	V	-11.8	27.5	74.0
3897.062500	47.9	V	-8.7	26.1	74.0

AV

Frequency (MHz)	Average (dB μ V/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB μ V/m)
1029.250000	23.1	H	-22.3	30.9	54.0
1496.500000	29.3	H	-18.9	24.7	54.0
2106.812500	26.0	H	-15.9	28.0	54.0
2464.000000	34.1	H	-14.3	19.9	54.0
3887.125000	30.1	H	-8.7	23.9	54.0
1353.625000	22.2	V	-20.1	31.8	54.0
1495.937500	30.2	V	-18.9	23.8	54.0
2463.062500	34.6	V	-14.3	19.4	54.0
2988.625000	29.3	V	-11.8	24.7	54.0
3897.062500	30.8	V	-8.7	23.2	54.0

Figure 24: Radiated Spurious Emission, Worst case below 1GHz and above 18GHz, TM1


Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.576250	29.1	H	24.7	10.9	40.0
121.058750	22.5	H	18.5	21.0	43.5
847.225000	33.5	H	27.8	12.5	46.0
30.121250	30.1	V	25.3	9.9	40.0
598.541250	41.6	V	26.2	4.4	46.0
897.786250	44.9	V	28.3	1.1	46.0

Note: For the frequencies 18GHz to 25GHz, no emission was found.

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