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APPENDIX A

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APPENDIX A

TEST PLOTS

(Model: (1)RT-AC51U (2)RT-AC750)

File Number: C1M1606078

Report Number: EM-F160402

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A.1 EMISSION BANDWIDTH MEASUREMENT

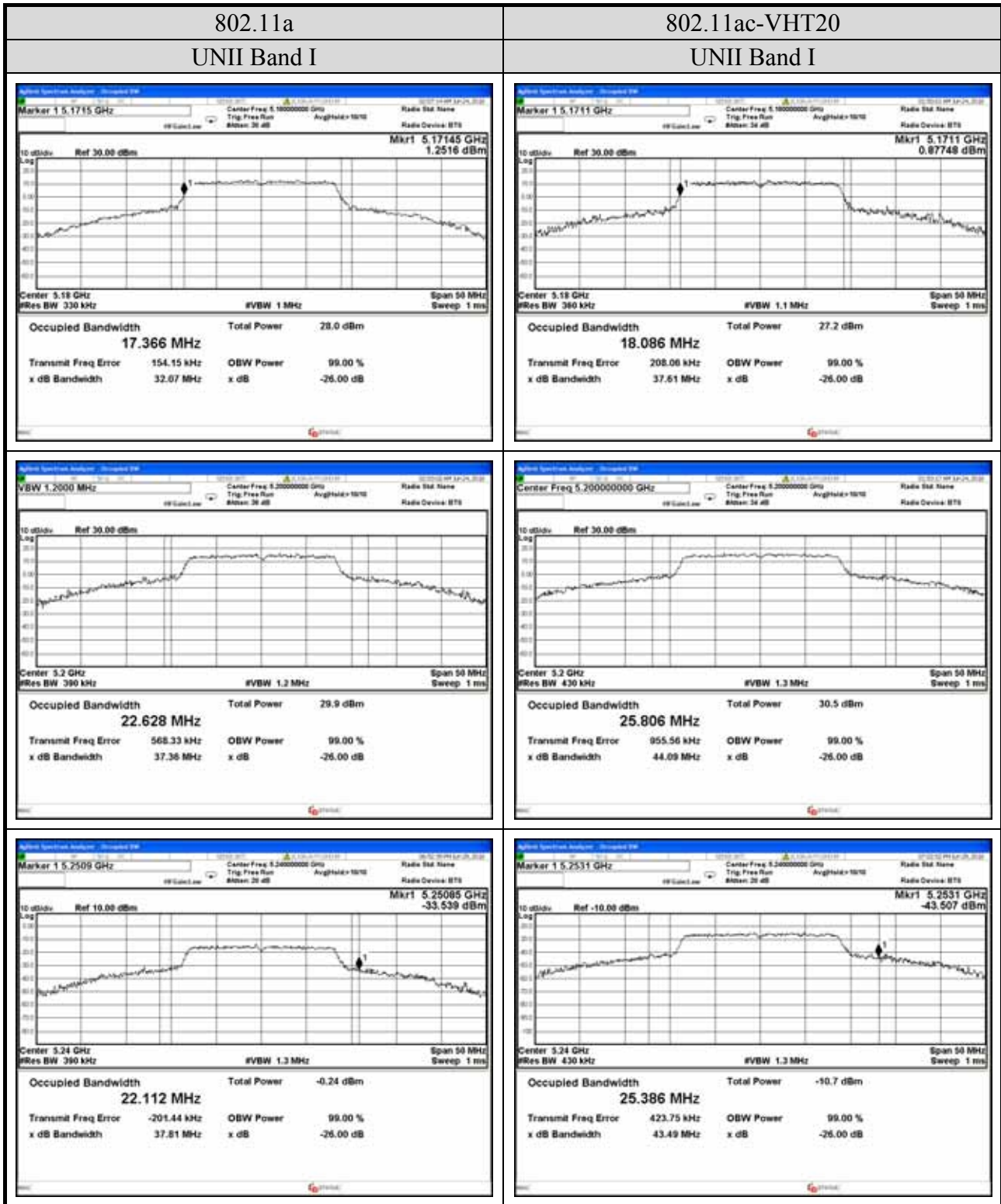
Test Date	2016/06/24~29	Temp./Hum.	26 /54%
Cable Loss	N/A	Test Voltage	AC 120V, 60Hz

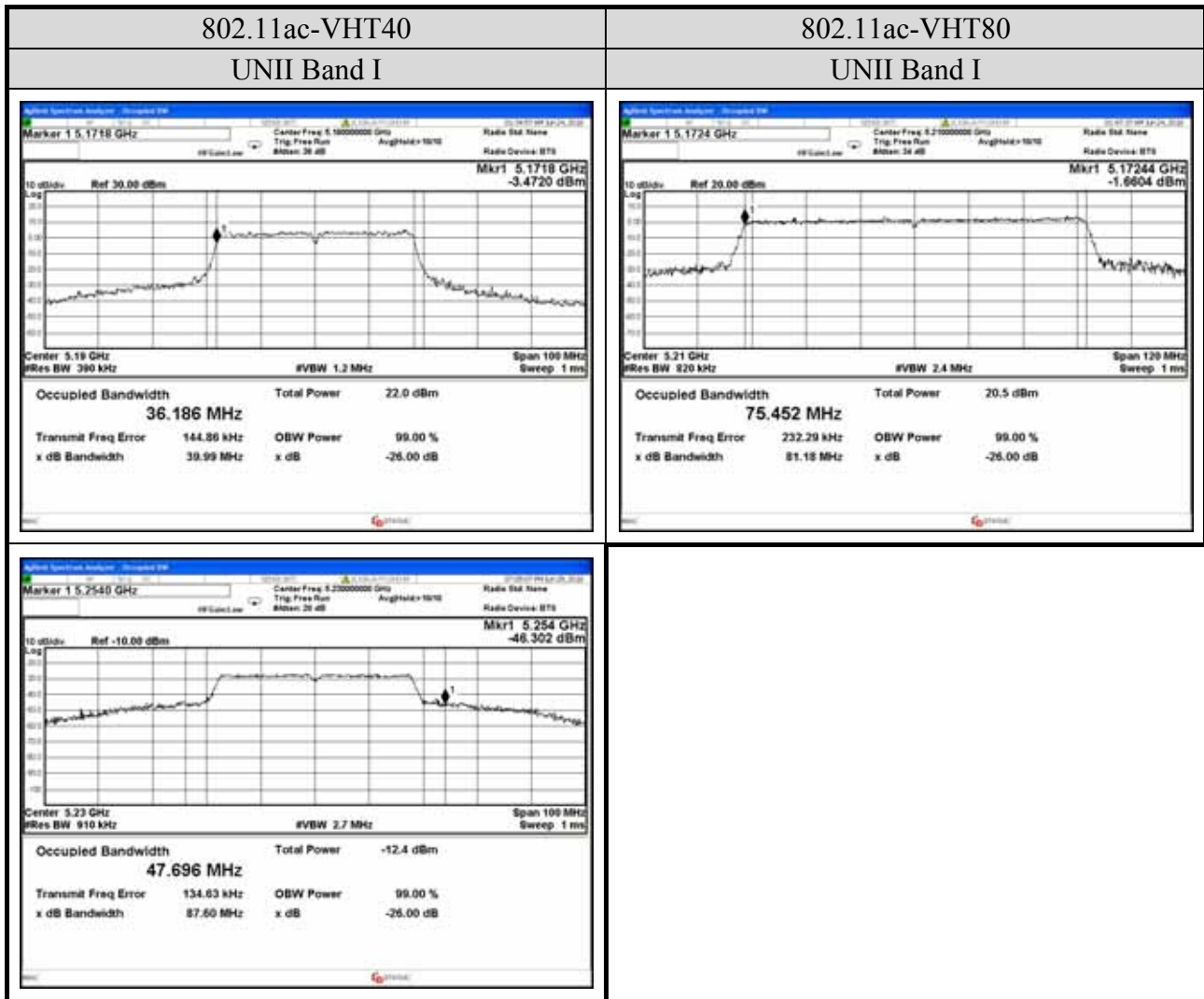
A.1.1 Emission Bandwidth Result

Modulation Type	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	I	5180	32.07	16.524	Reference only
		5200	37.36	16.950	
		5240	37.81	16.998	
802.11ac-VHT20	I	5180	37.61	17.658	
		5200	44.09	18.051	
		5240	43.49	18.067	
802.11ac-VHT40	I	5190	39.99	36.212	
		5230	87.60	36.952	
802.11ac-VHT80	I	5210	81.18	75.252	

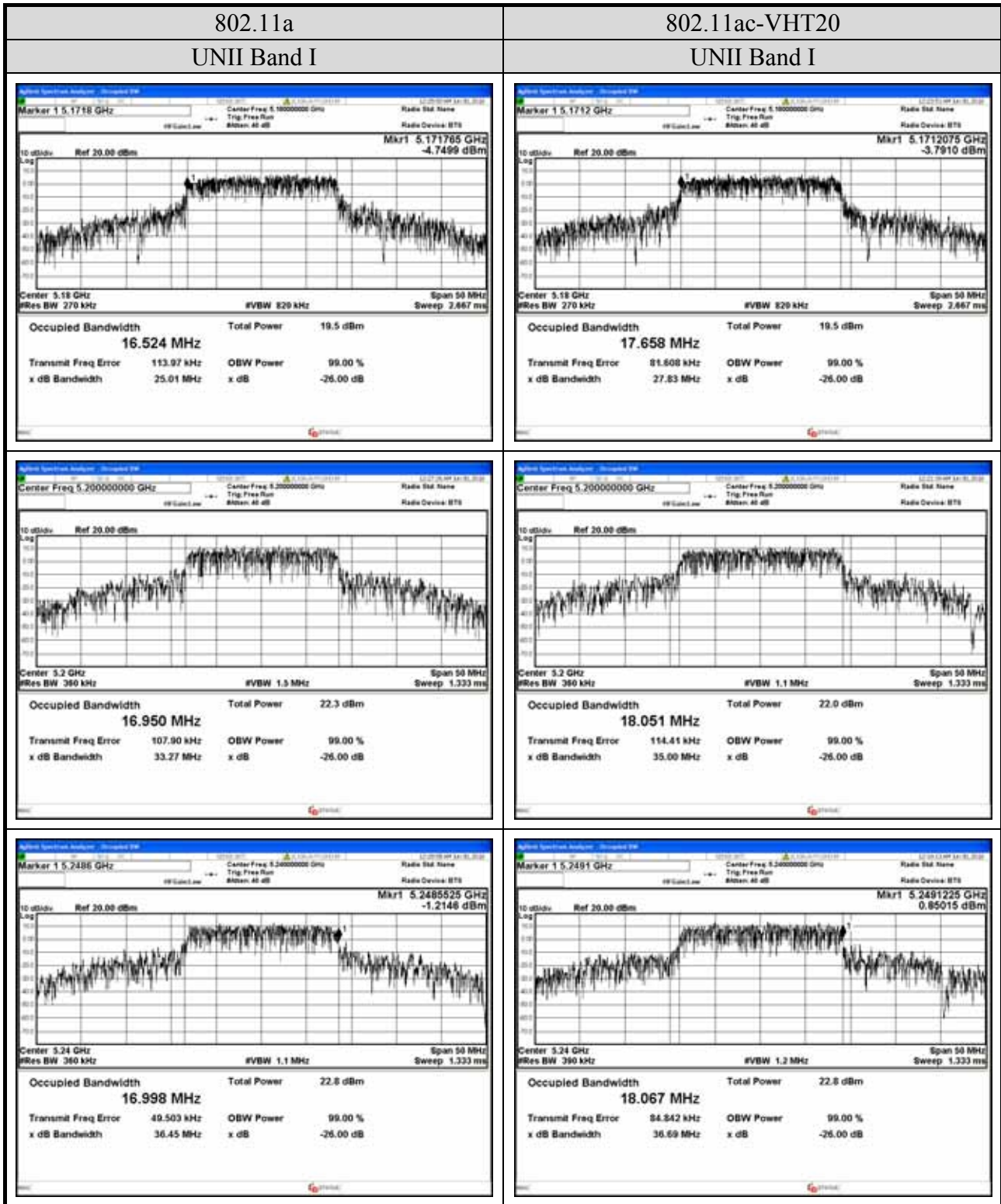
Modulation Type	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	Limit
802.11a	III	5745	15.78	≥ 500kHz
		5785	16.07	
		5825	15.62	
802.11ac-VHT20	III	5745	16.91	
		5785	16.64	
		5825	16.93	
802.11ac-VHT40	III	5755	35.77	
		5795	36.01	
802.11ac-VHT80	III	5775	75.32	

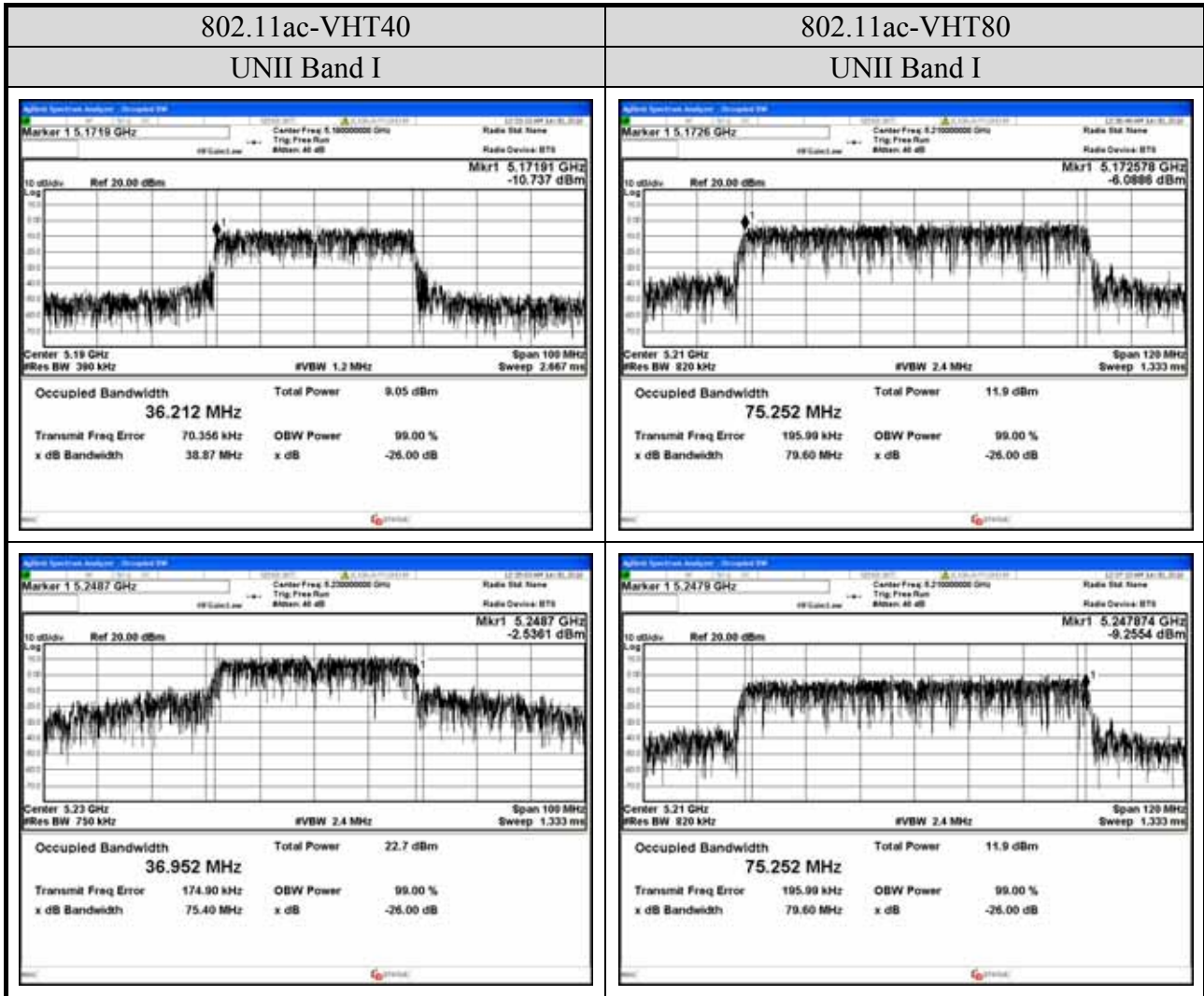
A.1.2 UNII Band I 26dB Bandwidth Measurement Plots



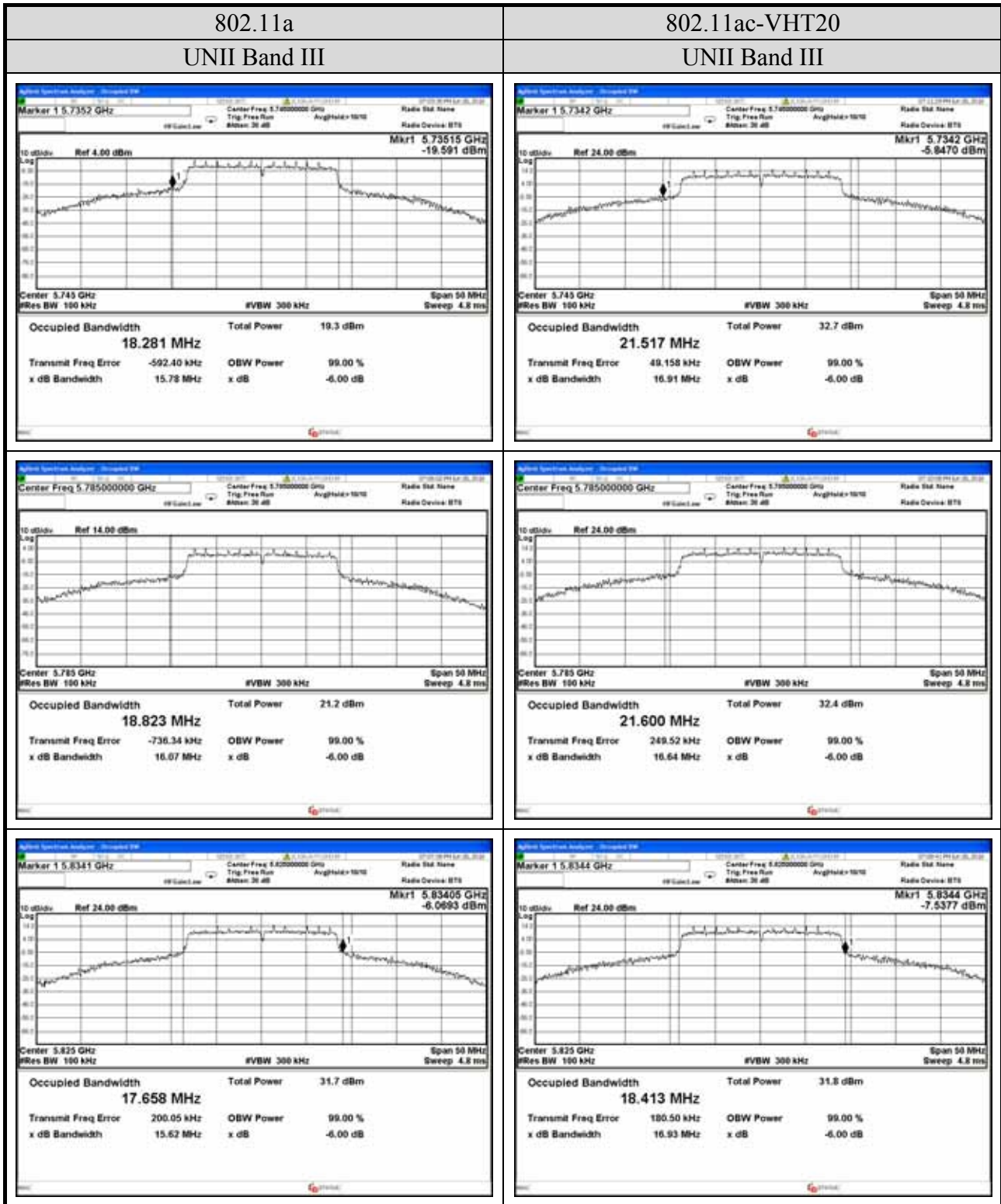


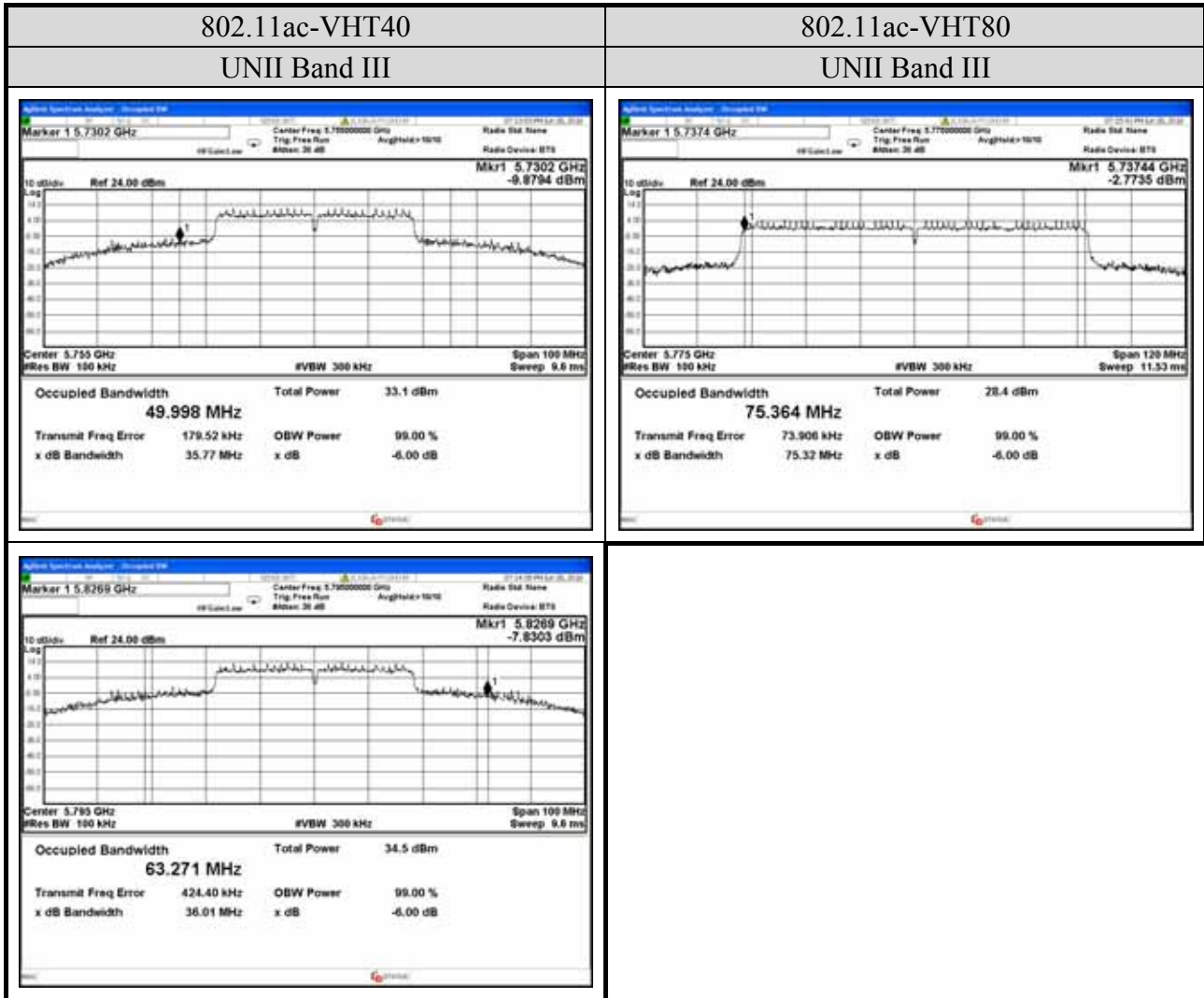
A.1.3 UNII Band I 99% Occupied Bandwidth Measurement Plots





A.1.4 UNII Band III Measurement Plots





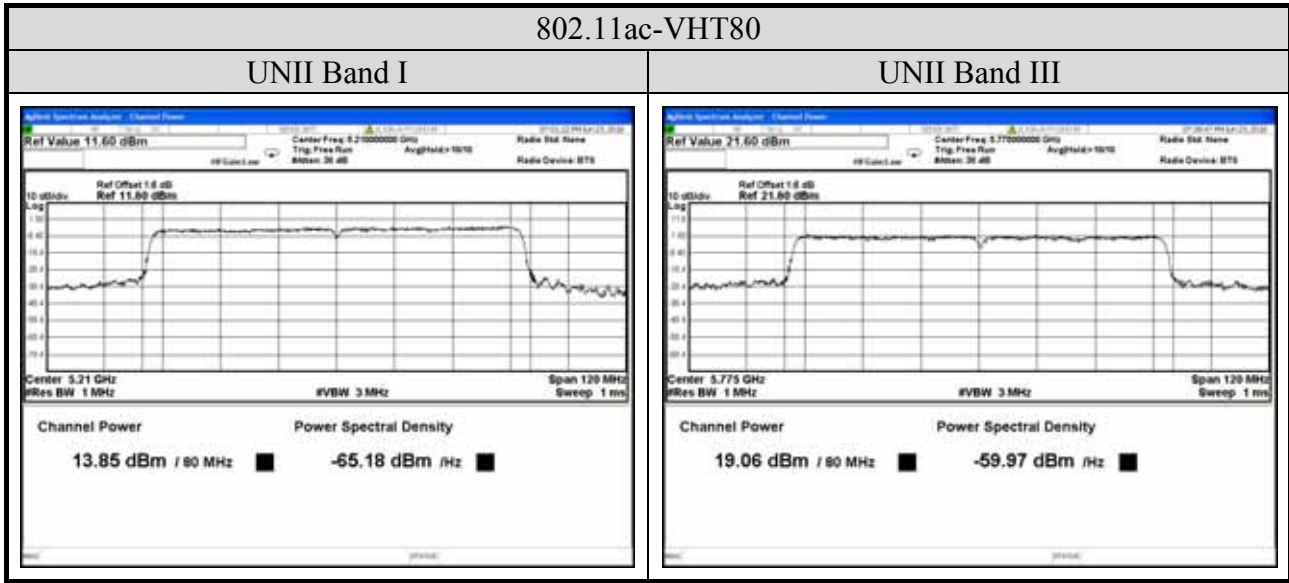
A.2 MAXIMUM OUTPUT POWER MEASUREMENT

A.2.1 Emission Bandwidth Result

Test Date	2016/06/23	Temp./Hum.	26 /54%
Cable Loss	N/A	Test Voltage	AC 120V, 60Hz

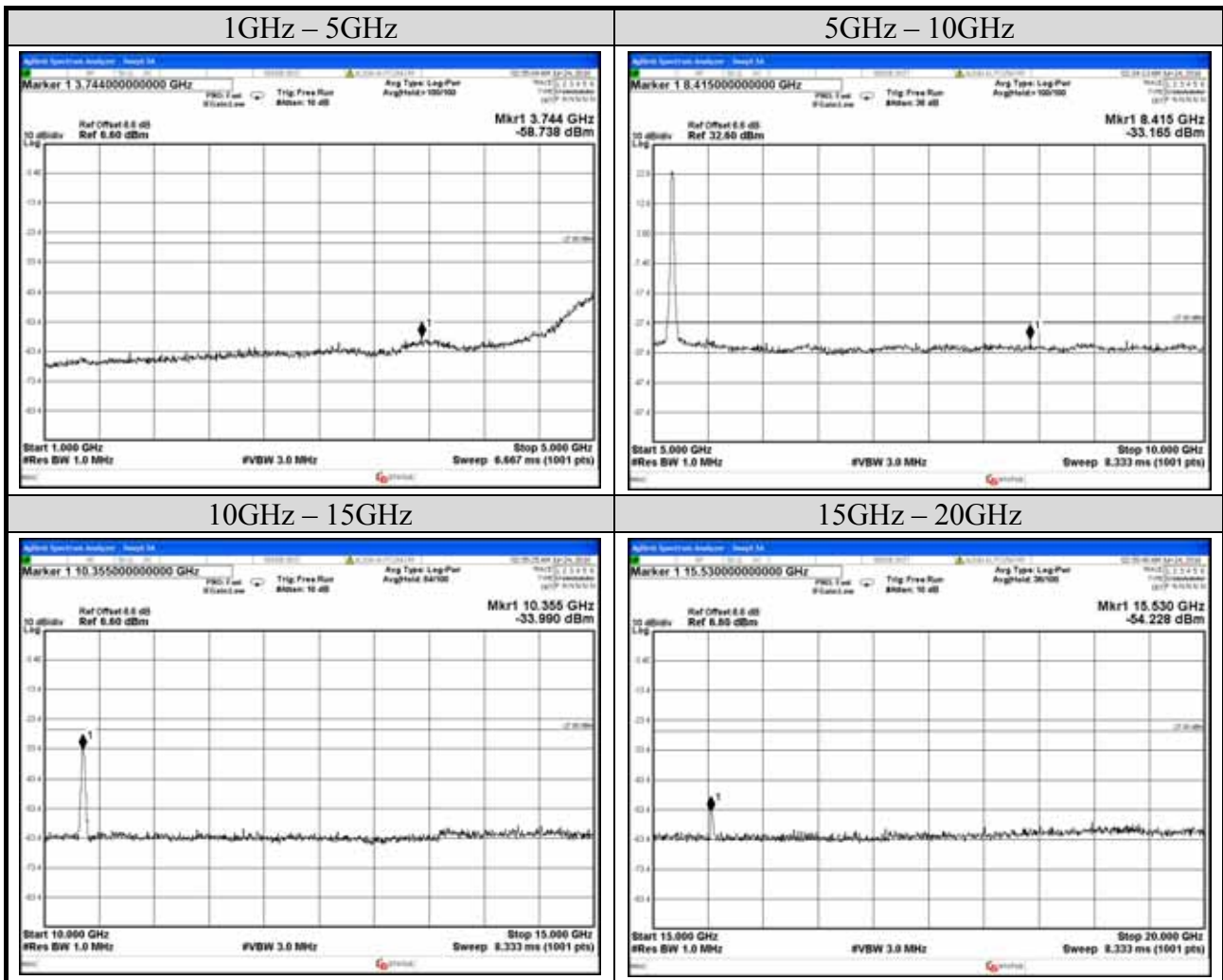
Modulation Type	UNII Band	Centre Frequency (MHz)	MAX Output Power		Limit
			(dBm)	(W)	
802.11a	I	5180	19.69	0.093111	< 1 W (30 dBm)
		5200	22.16	0.164437	
		5240	22.85	0.192752	
	III	5745	21.86	0.153462	
		5785	21.50	0.141254	
		5825	21.53	0.142233	
802.11ac-VHT20	I	5180	19.65	0.092257	
		5200	22.09	0.161808	
		5240	22.79	0.190108	
	III	5745	22.54	0.179473	
		5785	21.87	0.153815	
		5825	21.62	0.145211	
802.11ac-VHT40	I	5190	14.70	0.029512	
		5230	22.61	0.182390	
	III	5755	22.91	0.195434	
		5795	23.19	0.208449	
802.11ac-VHT80	I	5210	13.85	0.024266	
	III	5775	19.06	0.081283	

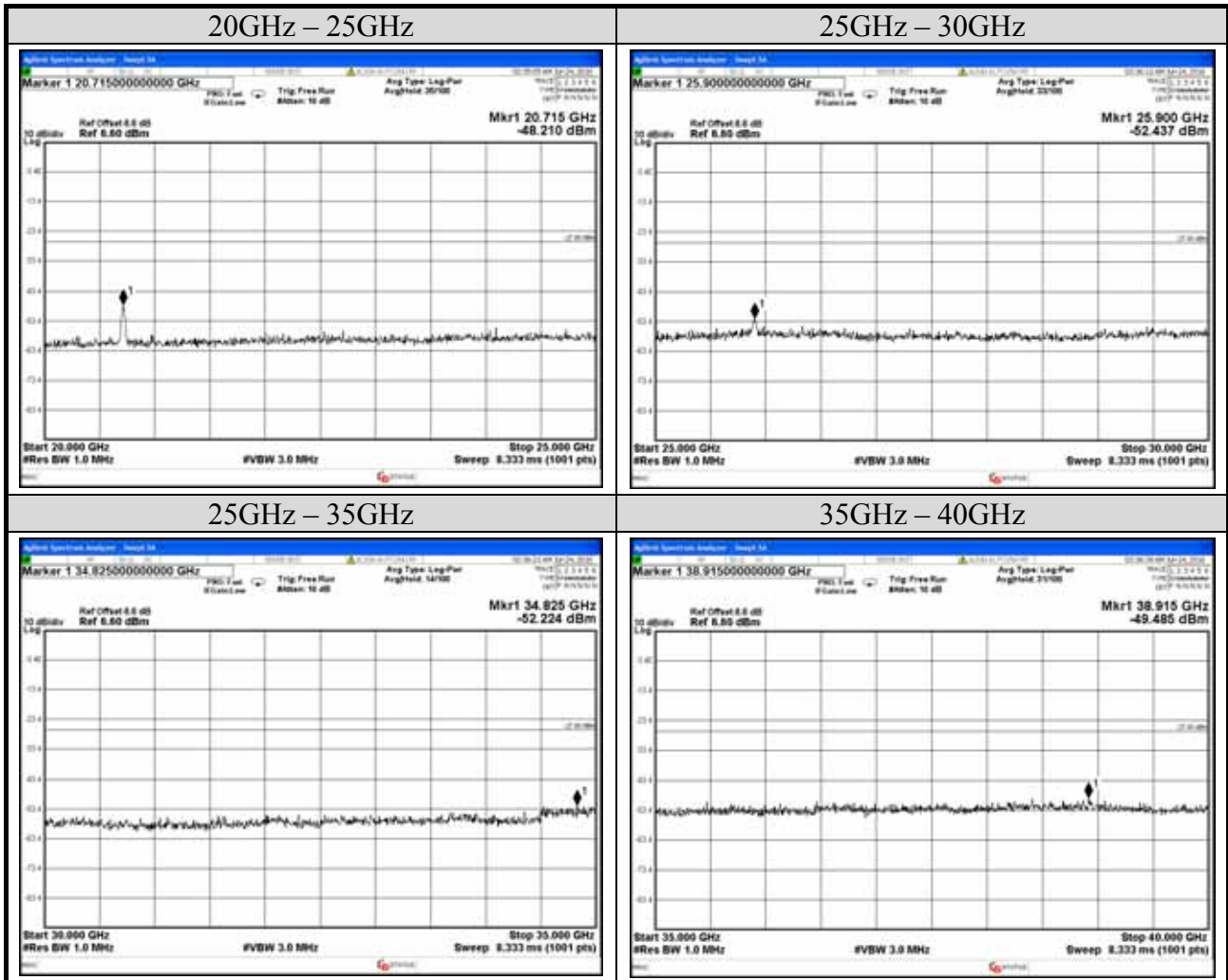
Note: The results have been included cable loss.



A.3 EMISSION LIMITATIONS MEASUREMENT

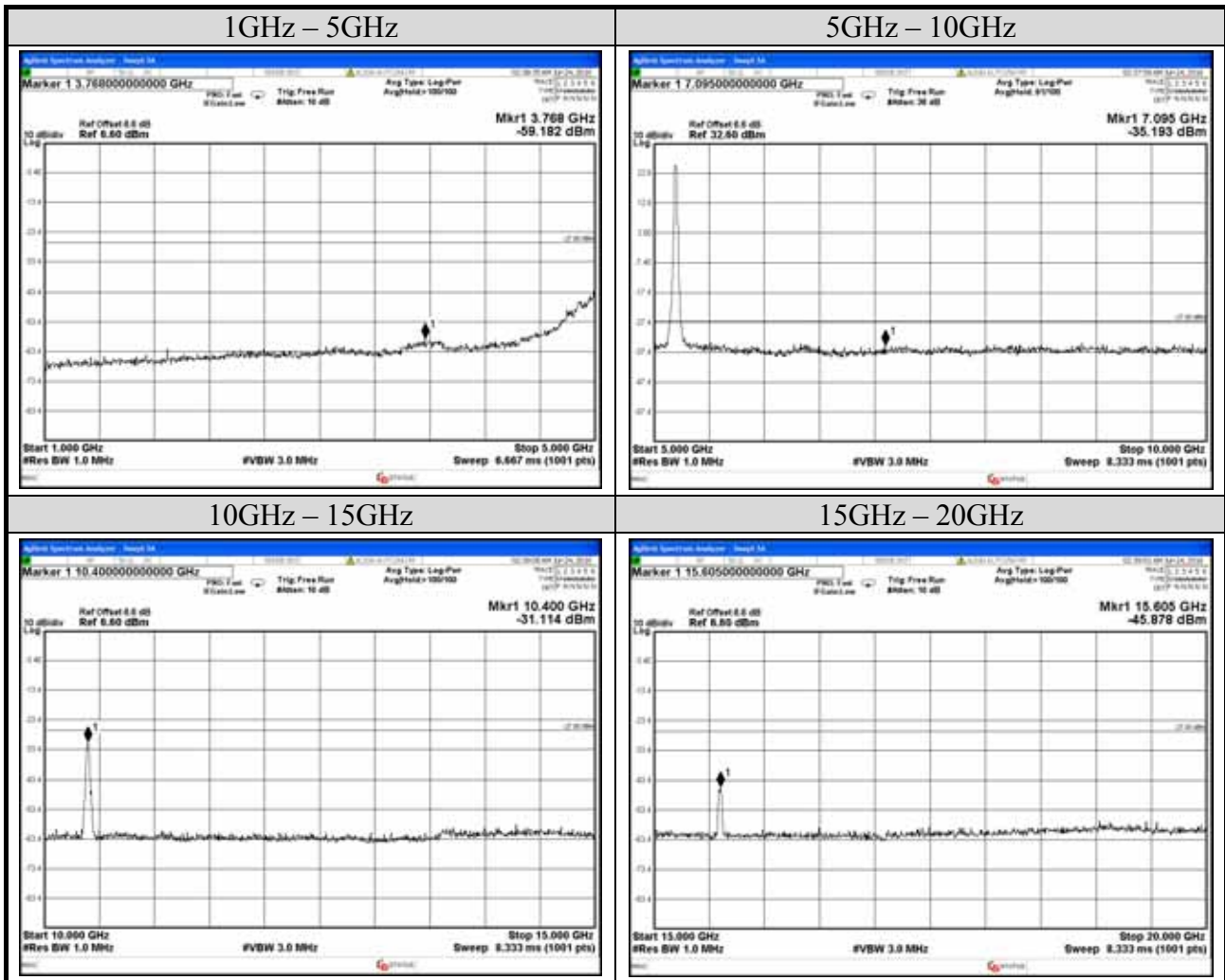
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5180MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

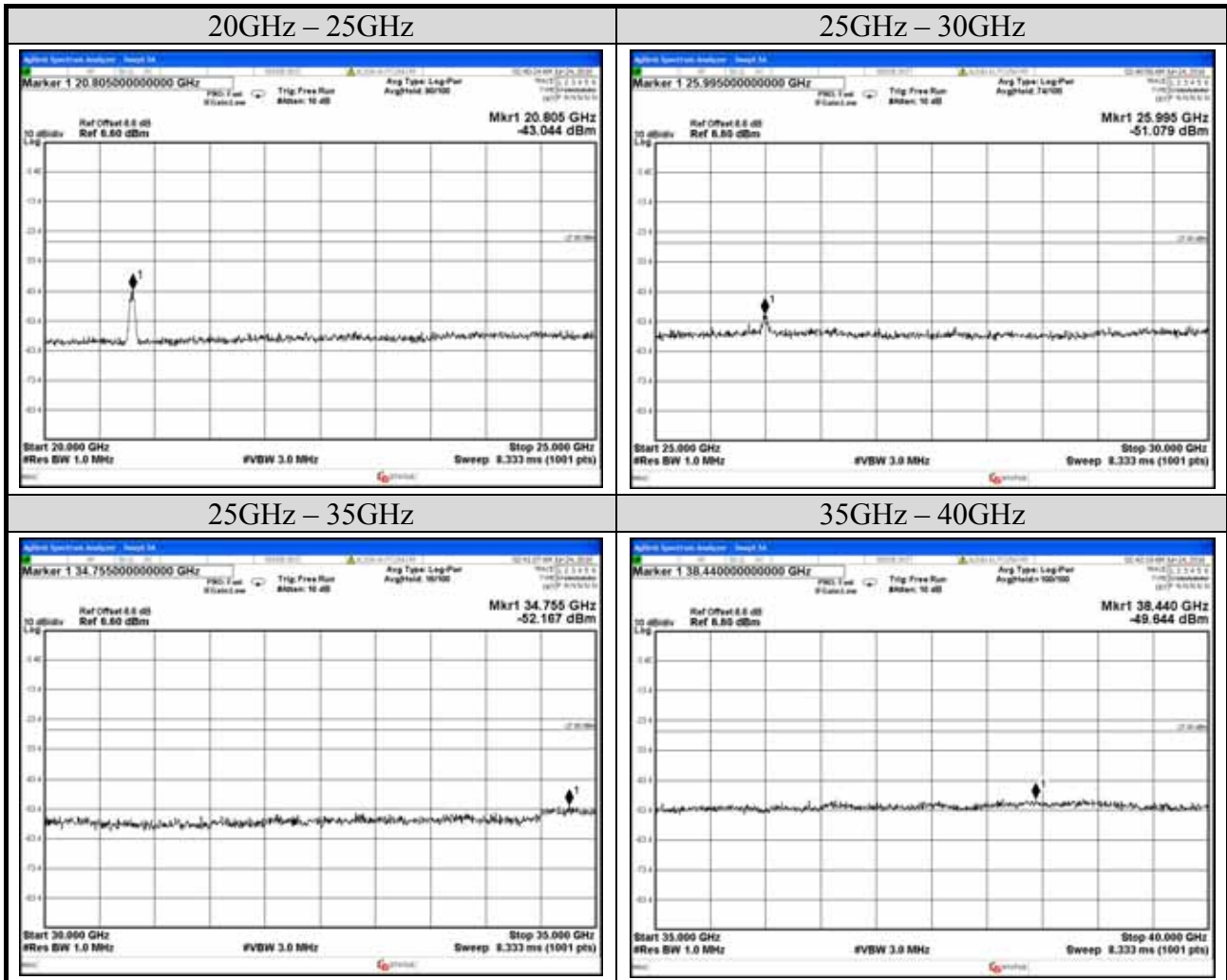




Note: The results have been included cable loss and antenna gain.

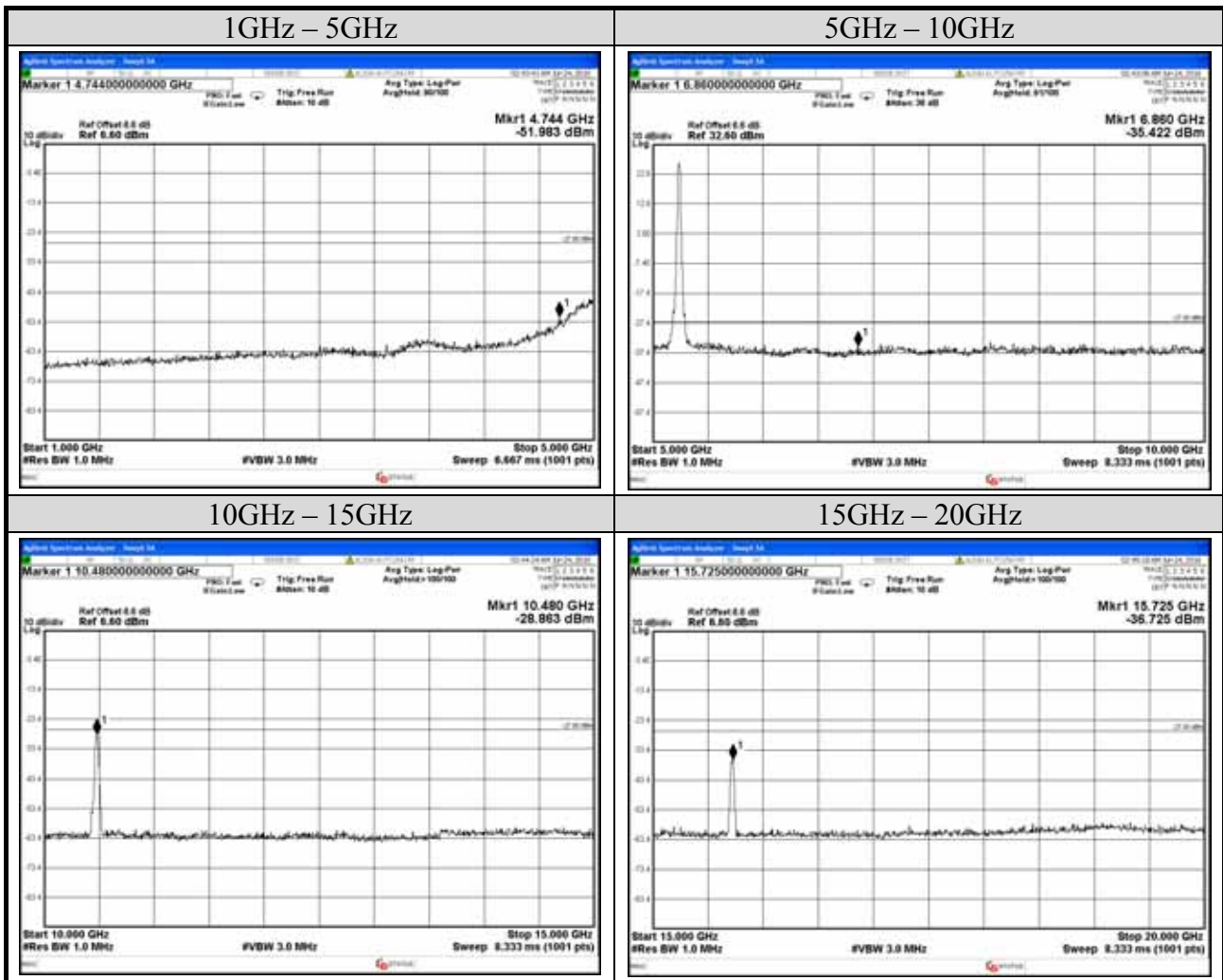
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

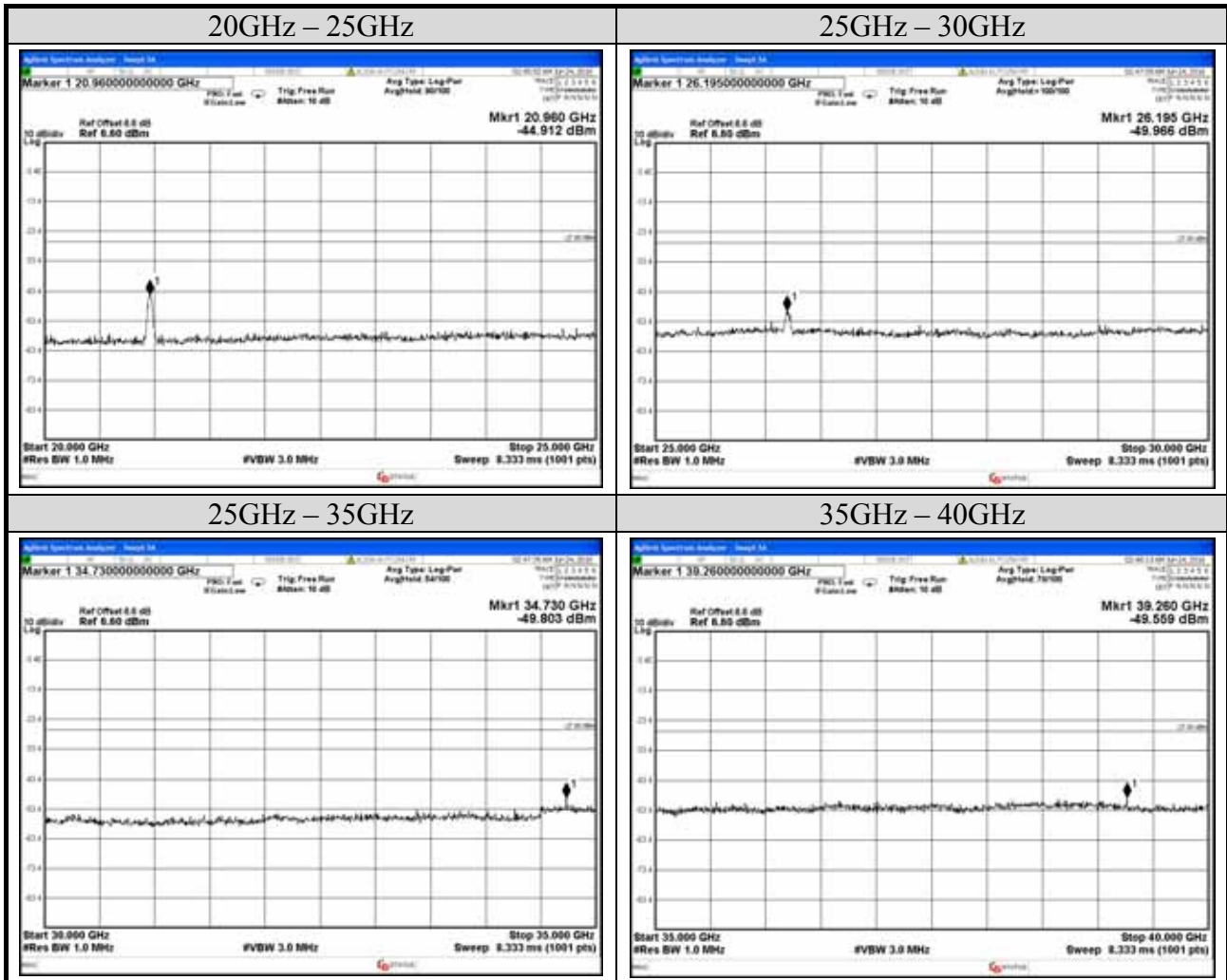




Note: The results have been included cable loss and antenna gain.

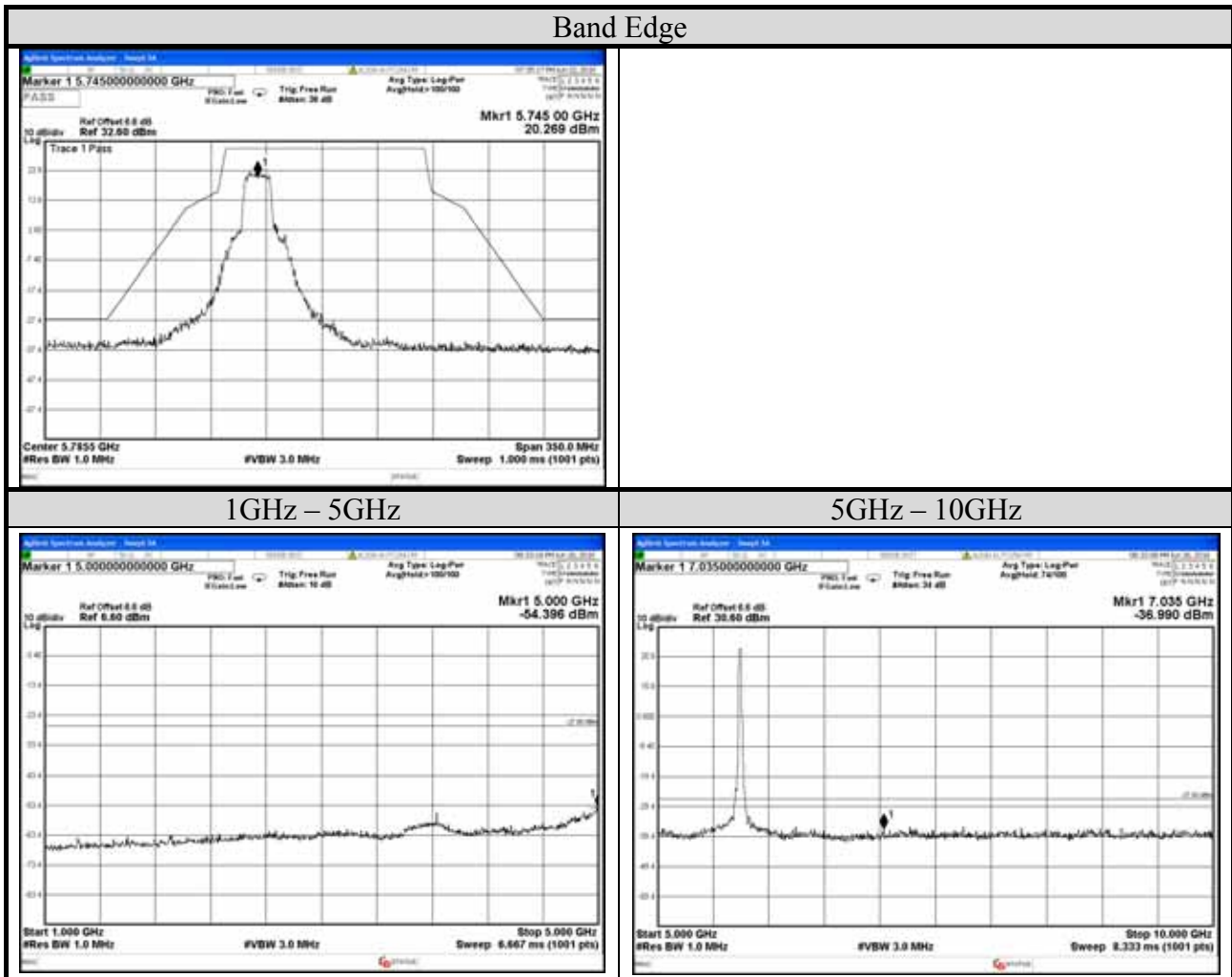
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11a	UNII Band	I
		Frequency	TX 5240MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

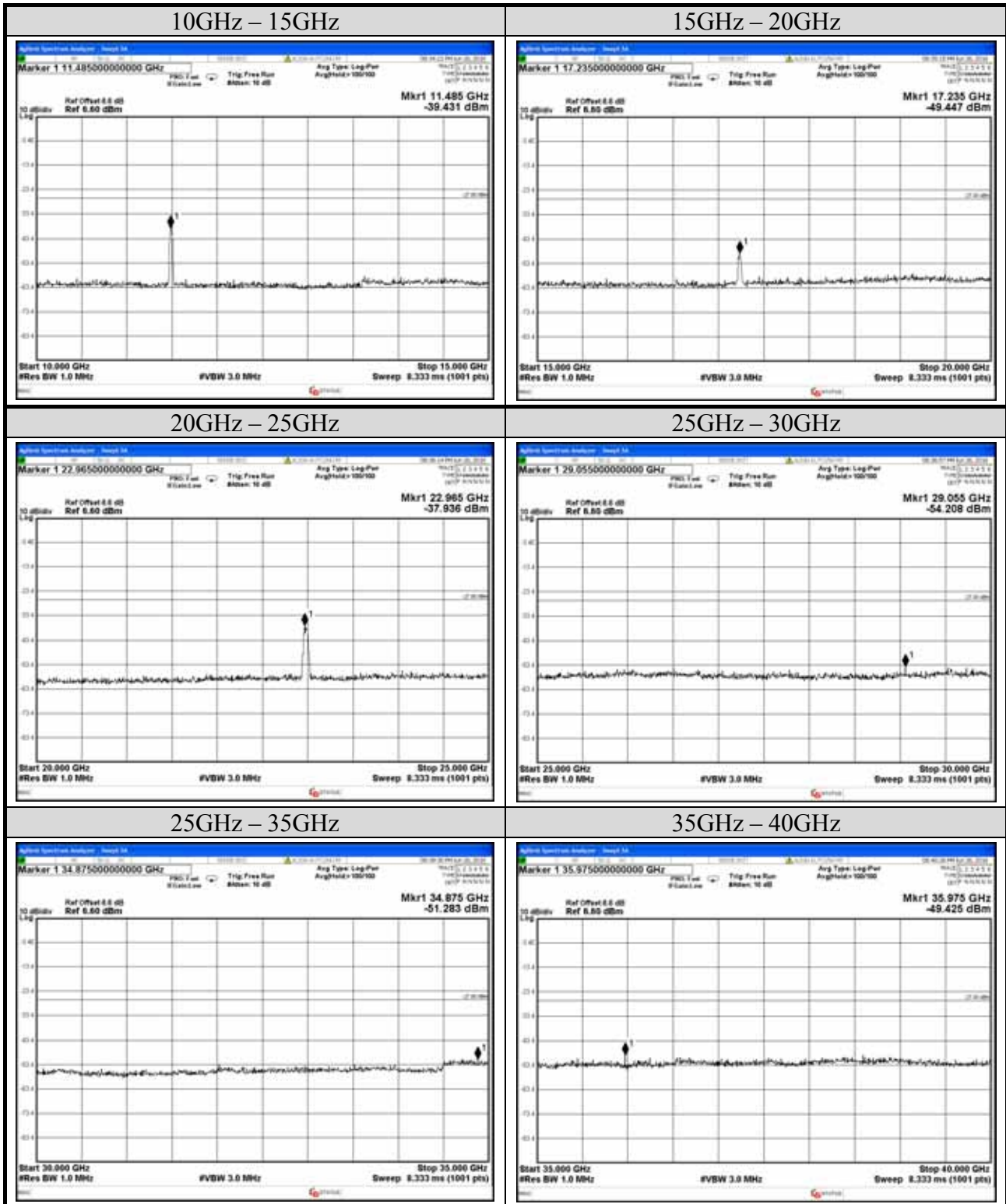




Note: The results have been included cable loss and antenna gain.

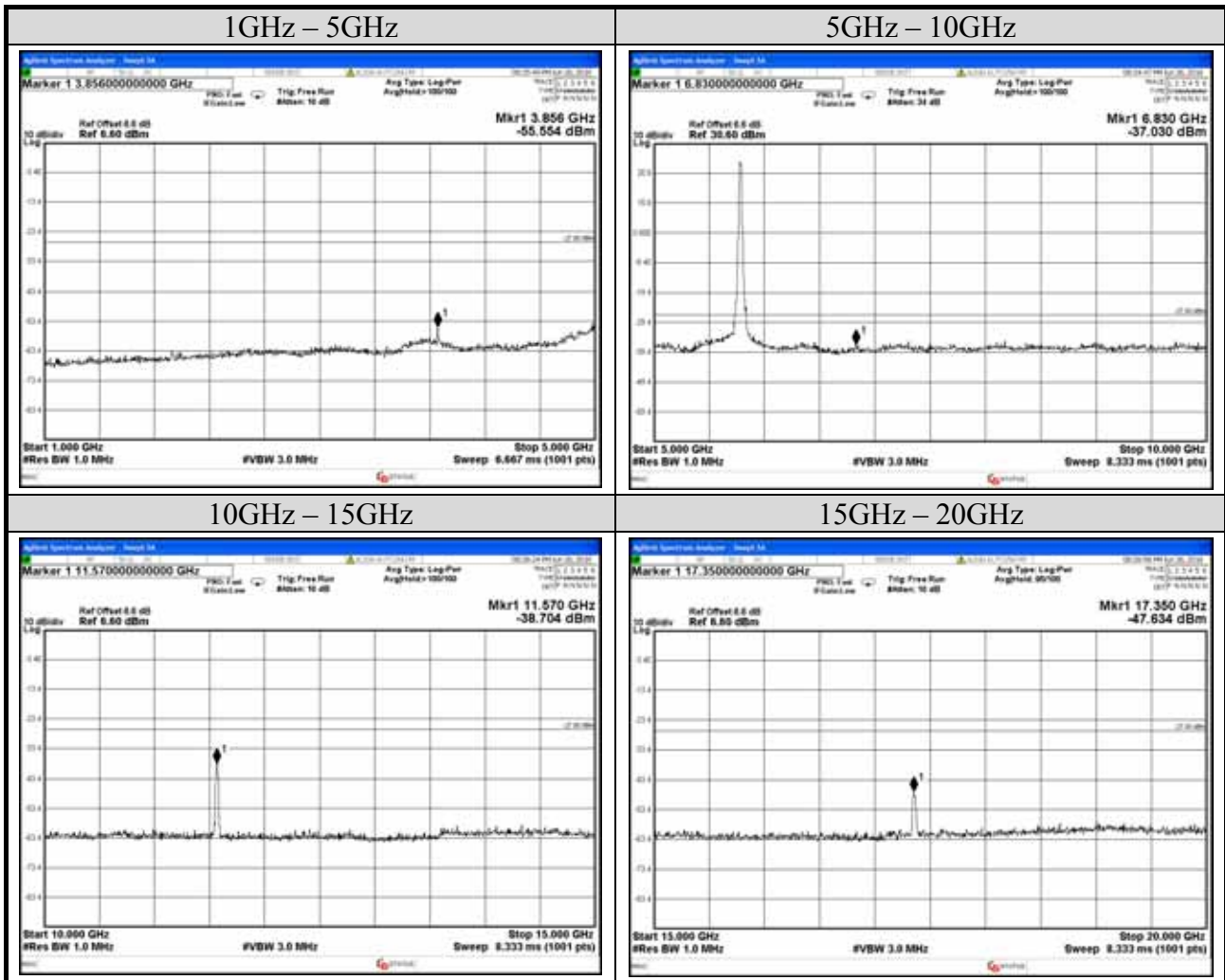
Test Date	2016/06/26 ~ 28	Temp./Hum.	26 /54%
Mode	802.11a	UNII Band	III
		Frequency	TX 5745MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

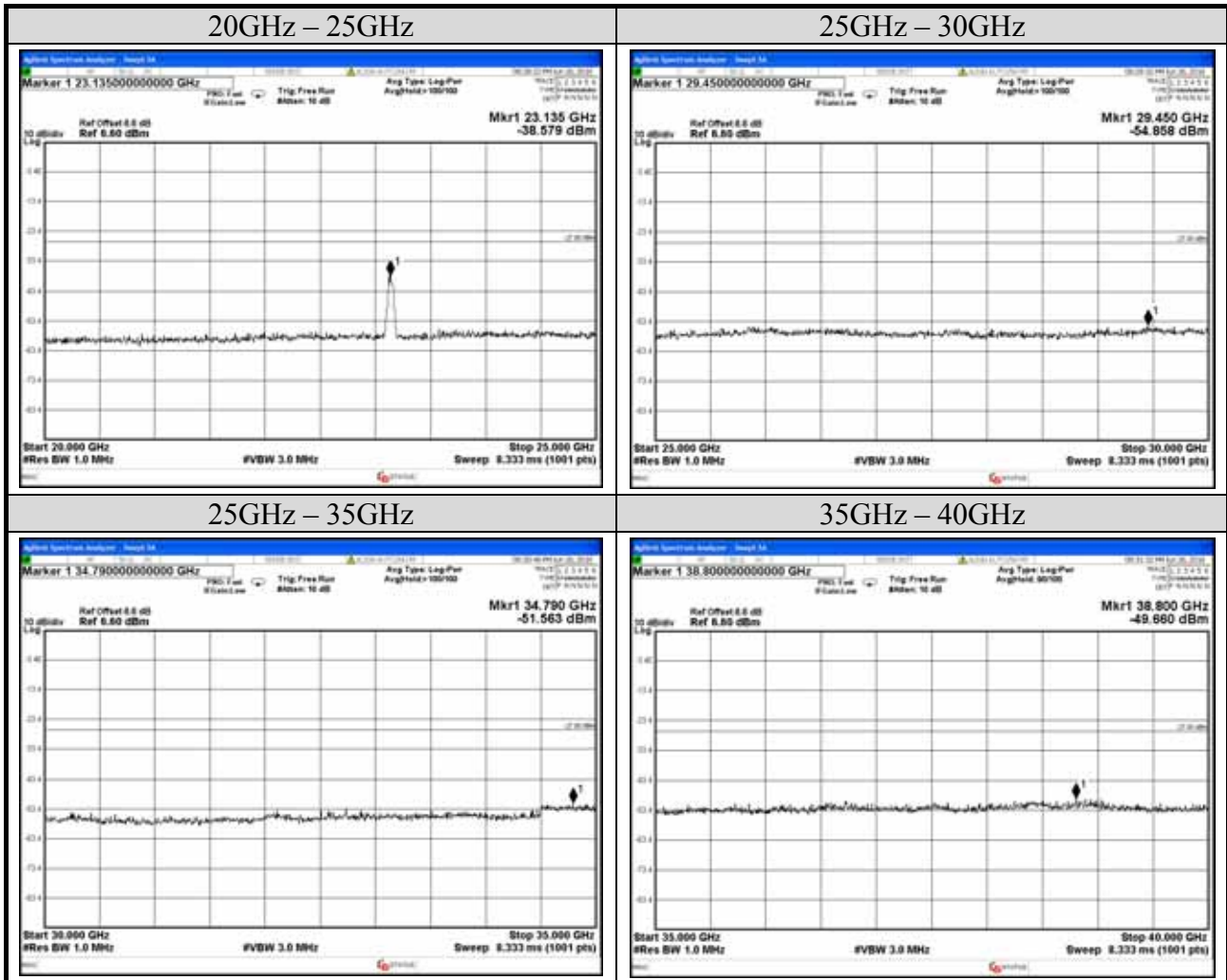




Note: The results have been included cable loss and antenna gain.

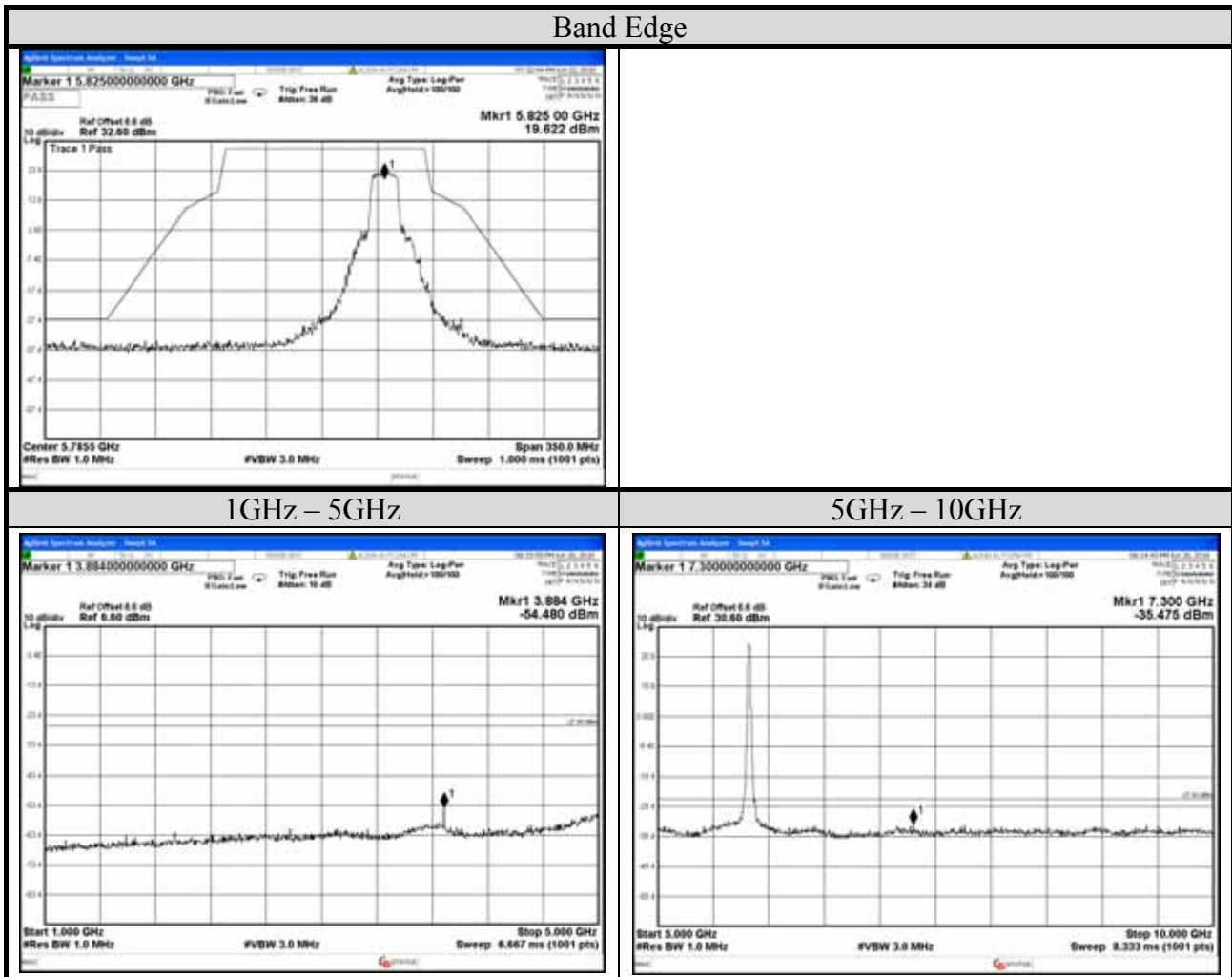
Test Date	2016/06/26	Temp./Hum.	26 /54%
Mode	802.11a	UNII Band	III
		Frequency	TX 5785MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

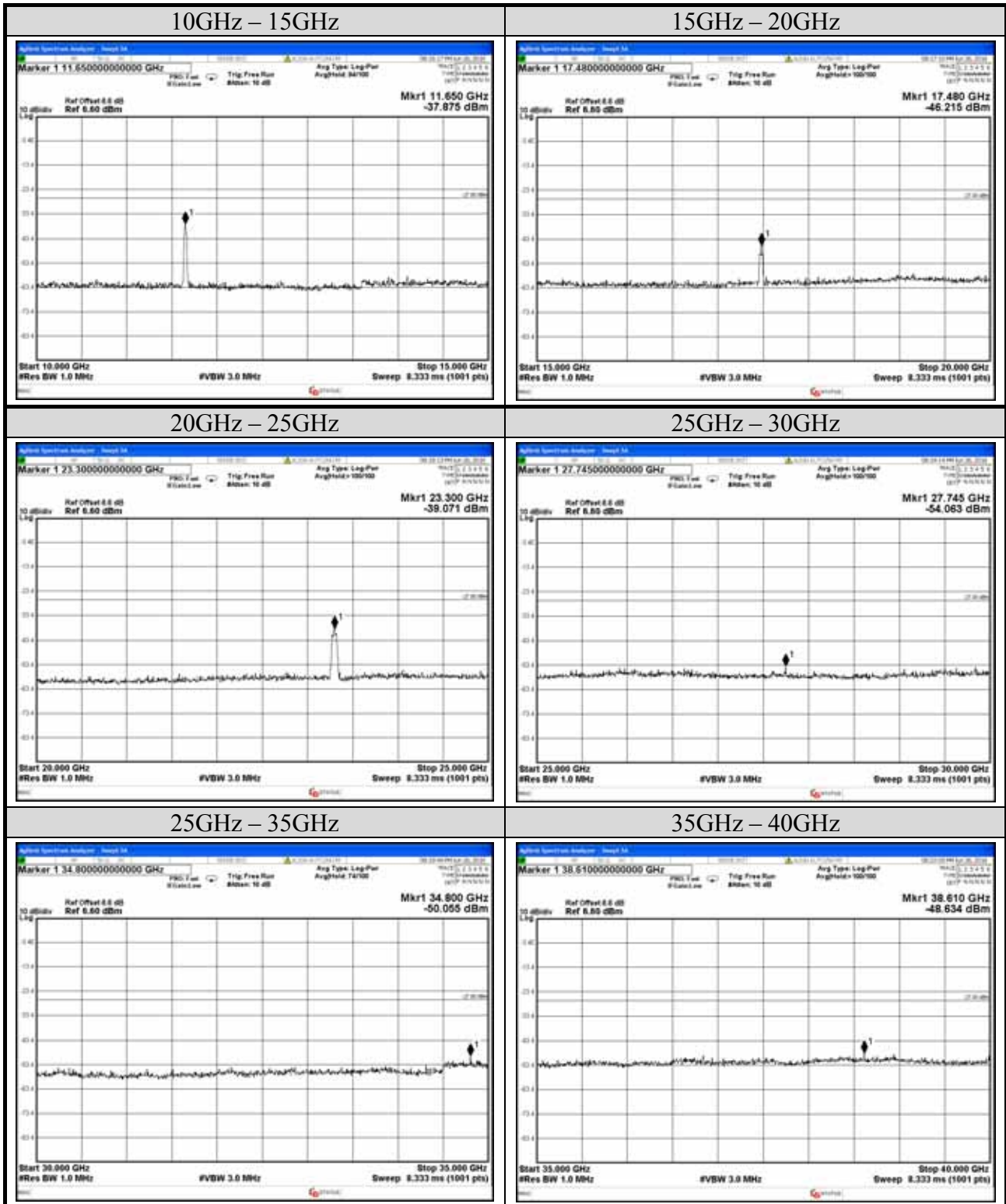




Note: The results have been included cable loss and antenna gain.

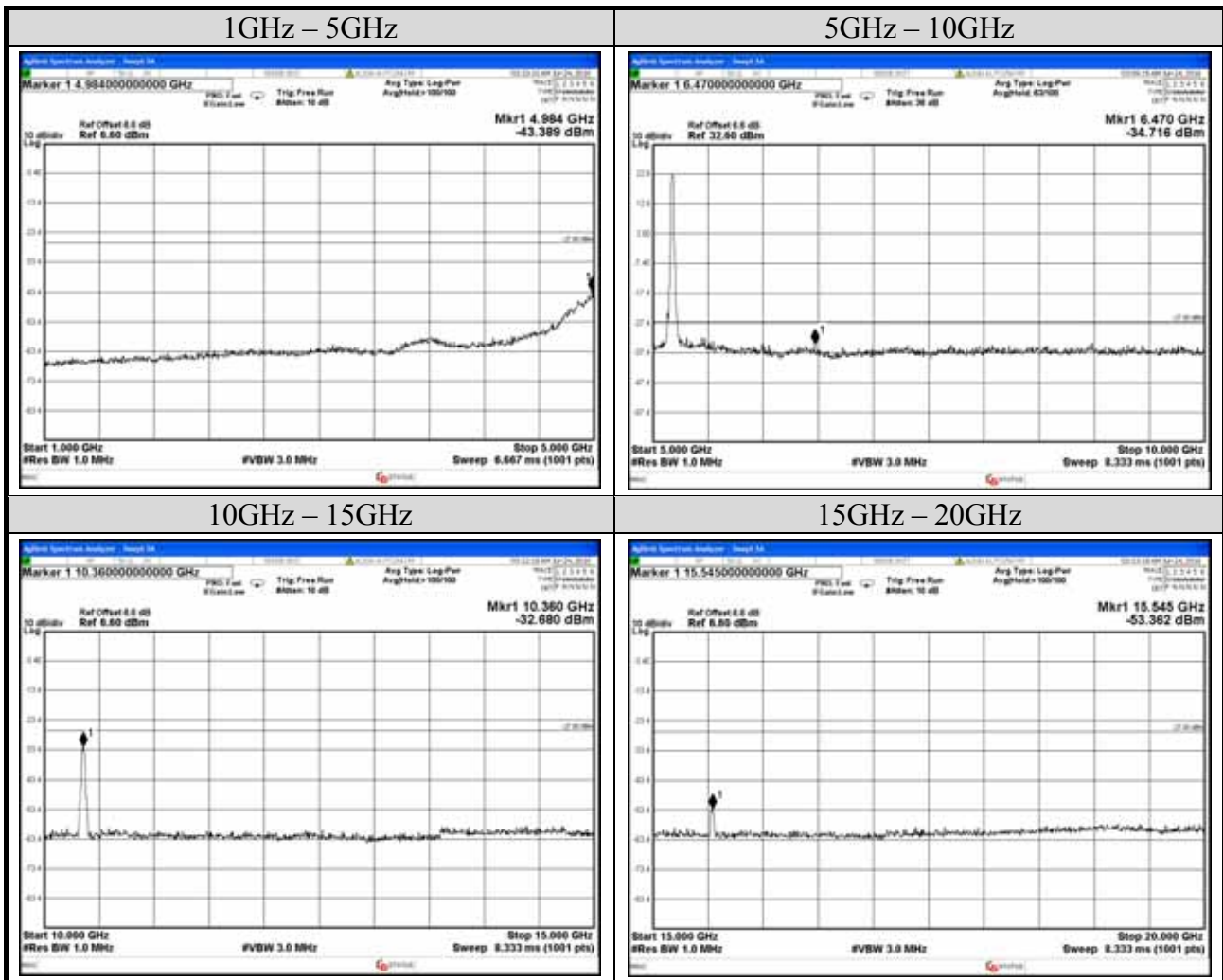
Test Date	2016/06/26 ~ 28	Temp./Hum.	26 /54%
Mode	802.11a	UNII Band	III
		Frequency	TX 5825MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

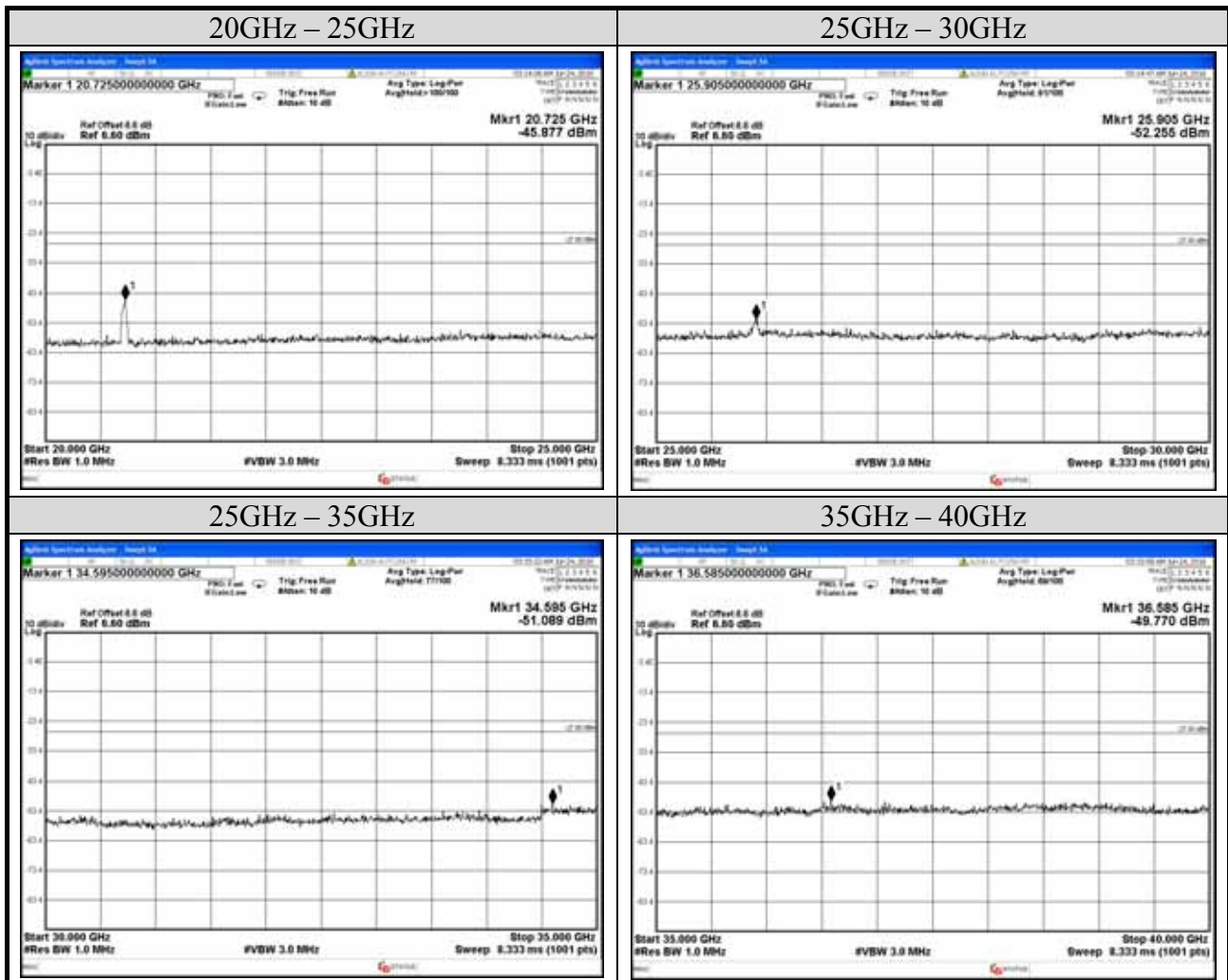




Note: The results have been included cable loss and antenna gain.

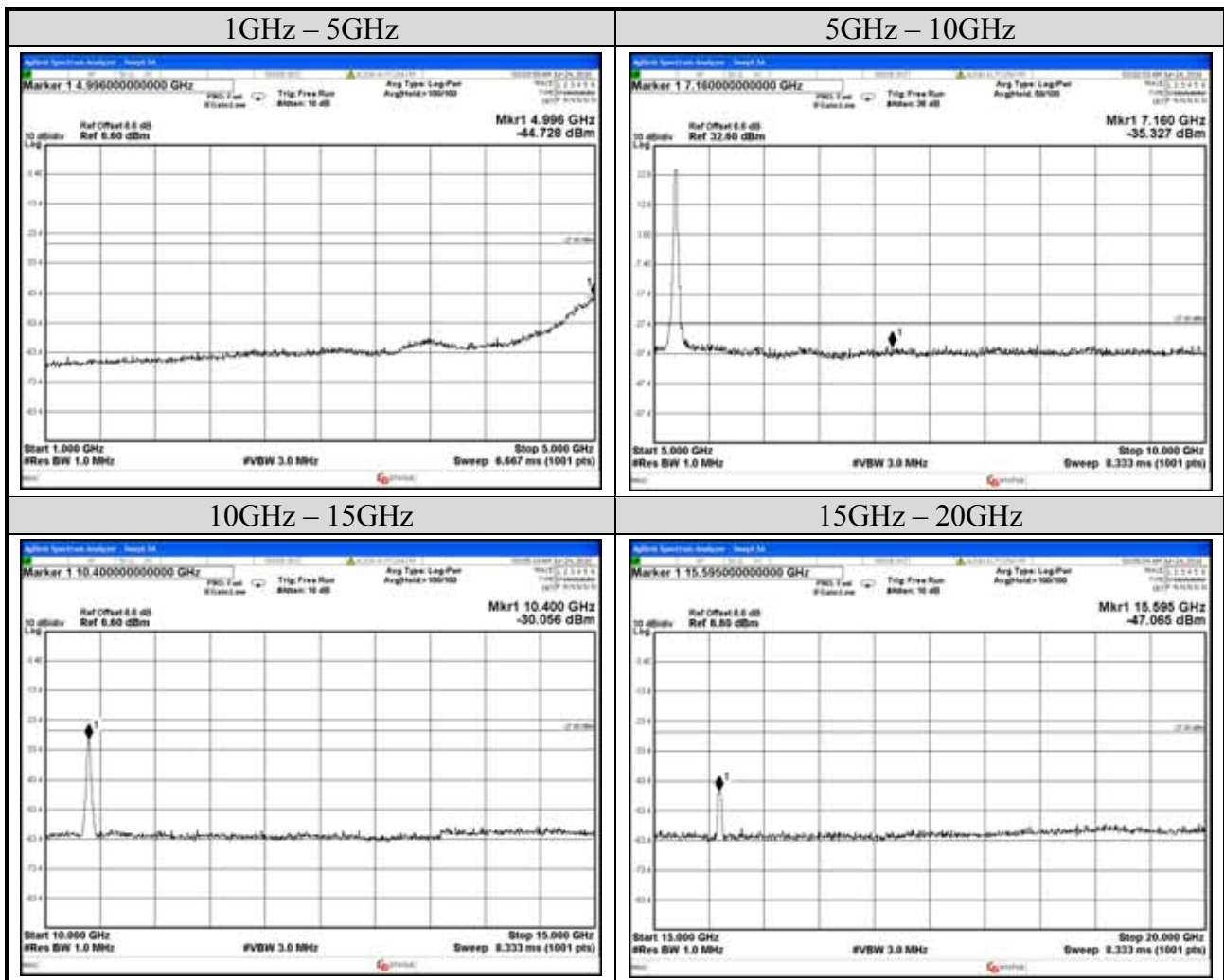
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-VHT20	UNII Band	I
		Frequency	TX 5180MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

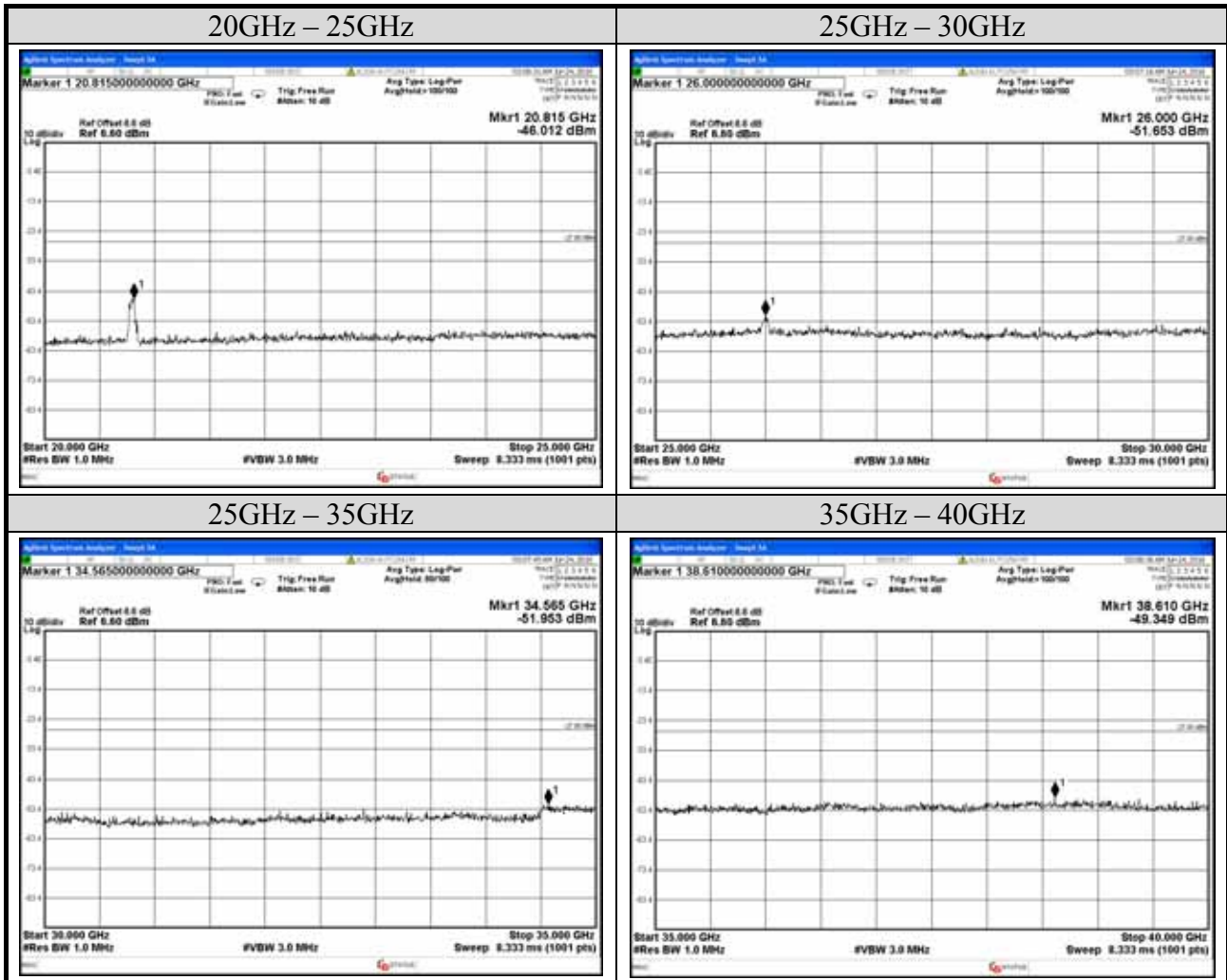




Note: The results have been included cable loss and antenna gain.

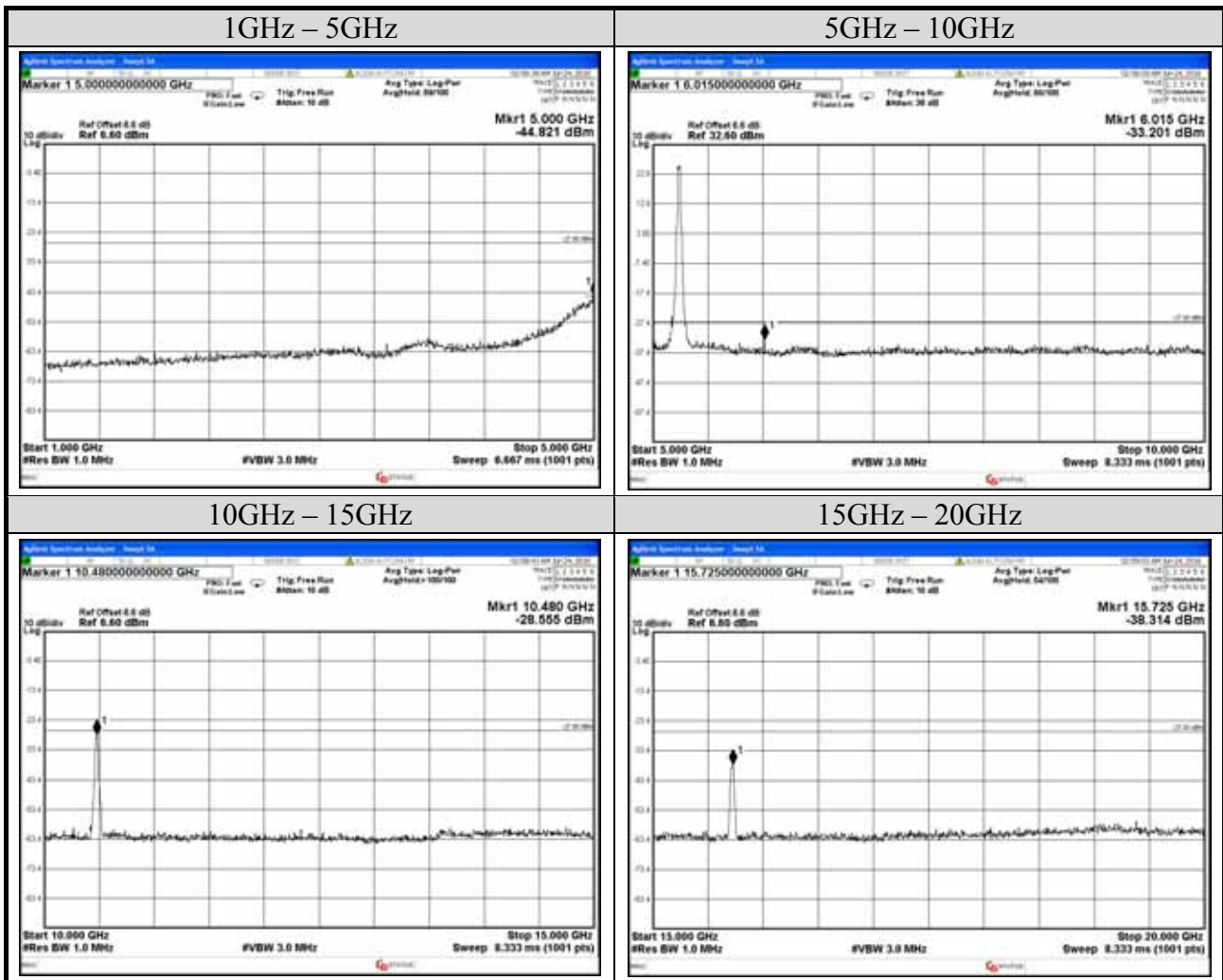
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-VHT20	UNII Band	I
		Frequency	TX 5200MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

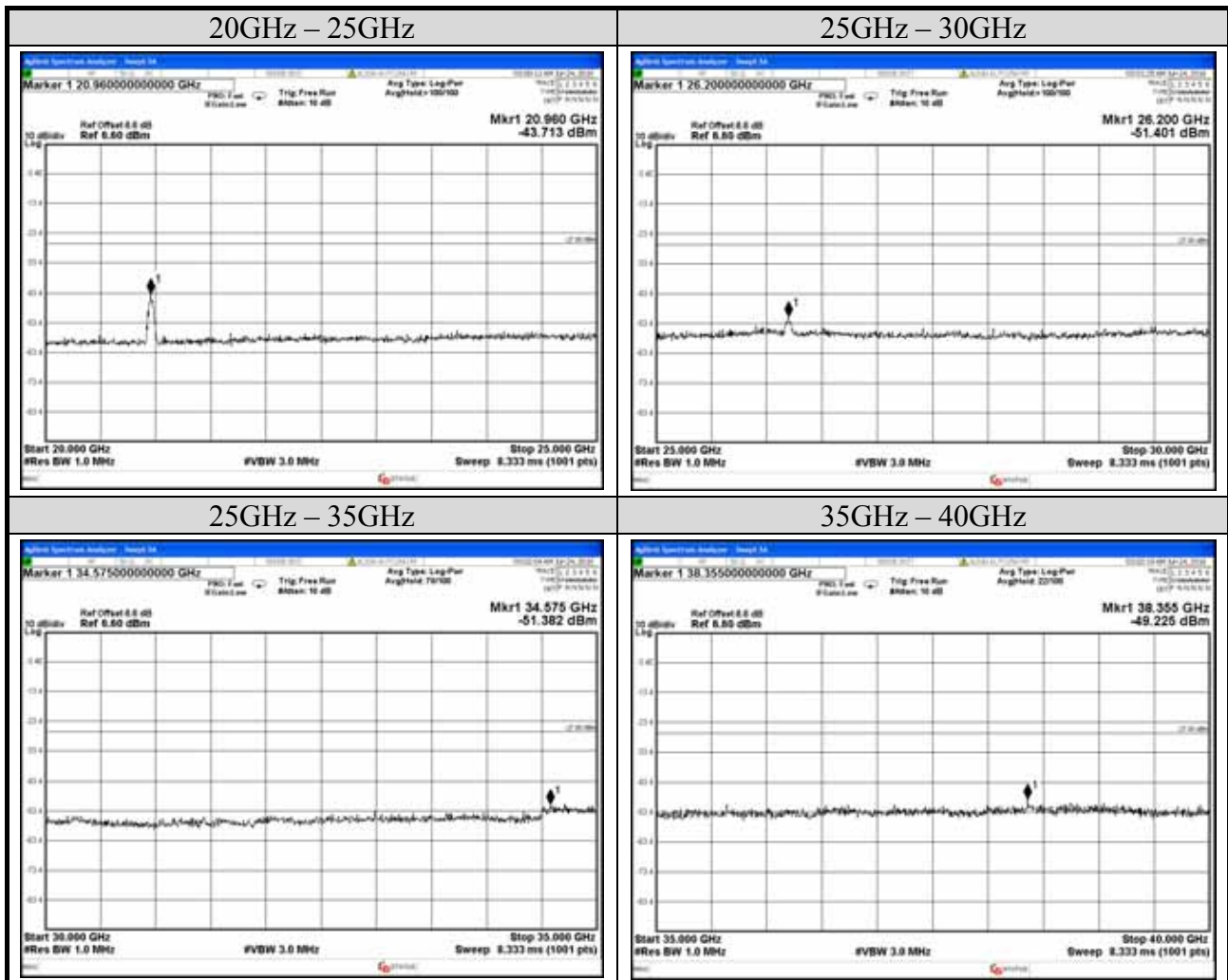




Note: The results have been included cable loss and antenna gain.

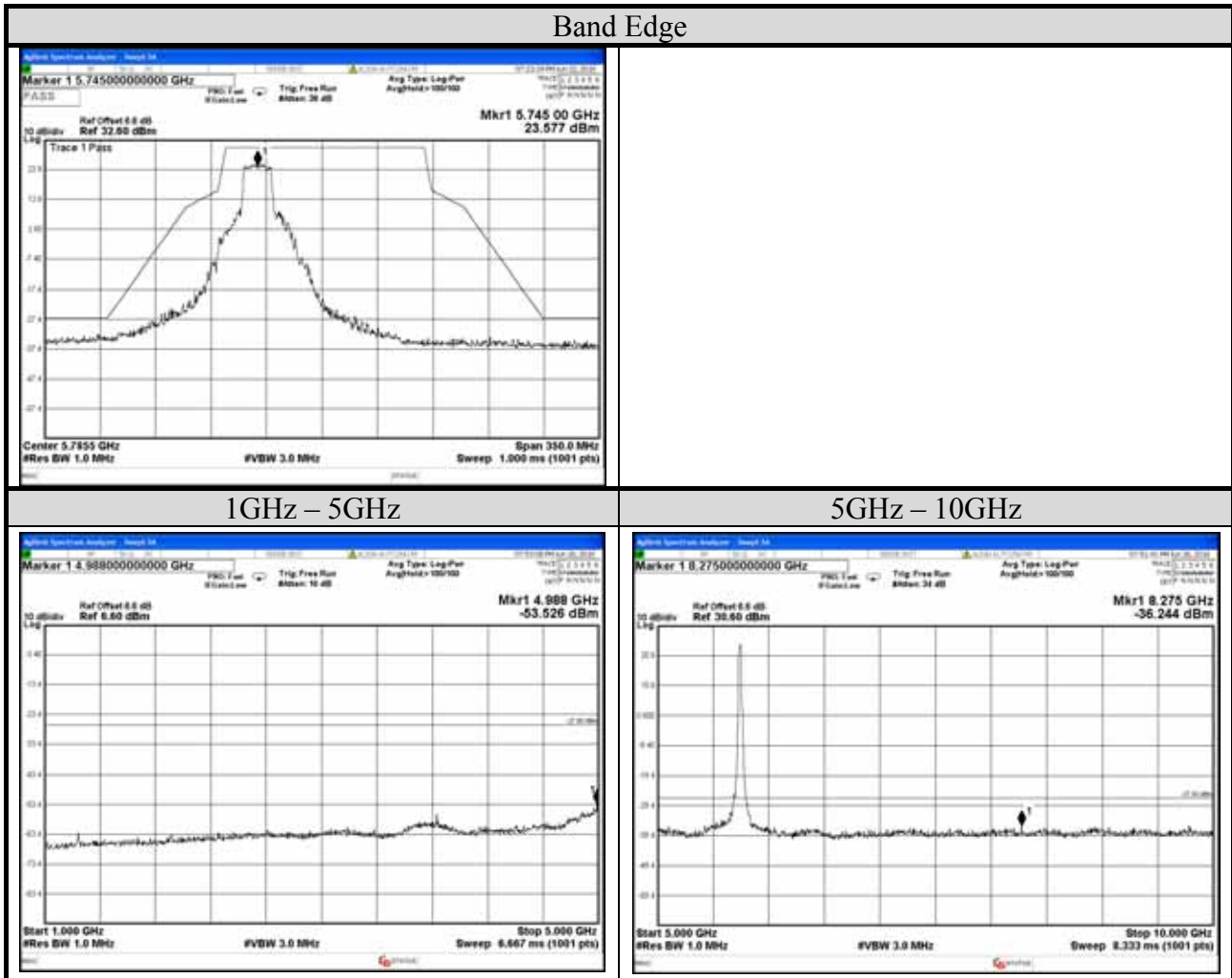
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-VHT20	UNII Band	I
		Frequency	TX 5240MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

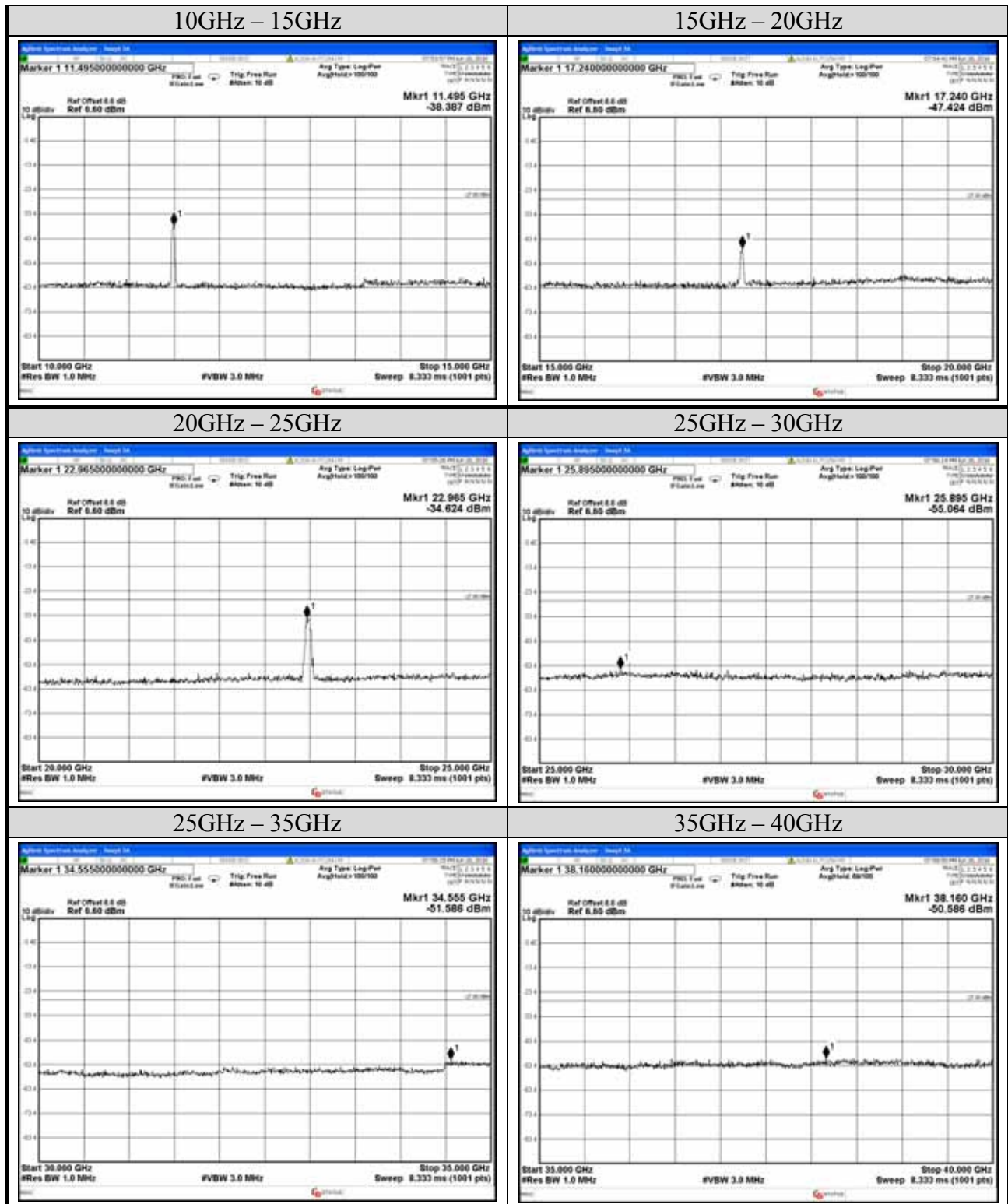




Note: The results have been included cable loss and antenna gain.

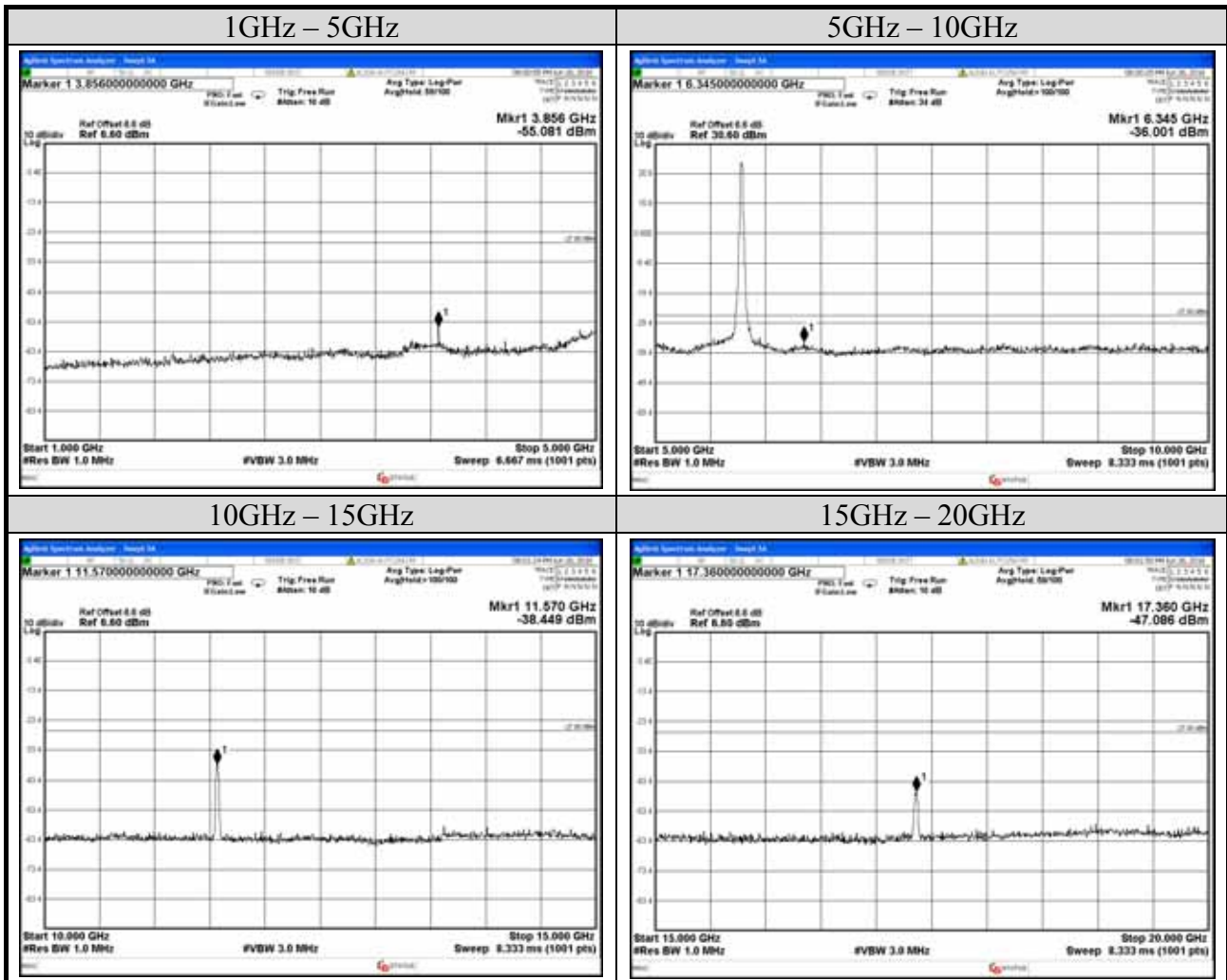
Test Date	2016/06/26 ~ 28	Temp./Hum.	26 /54%
Mode	802.11ac-VHT20	UNII Band	III
		Frequency	TX 5745MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

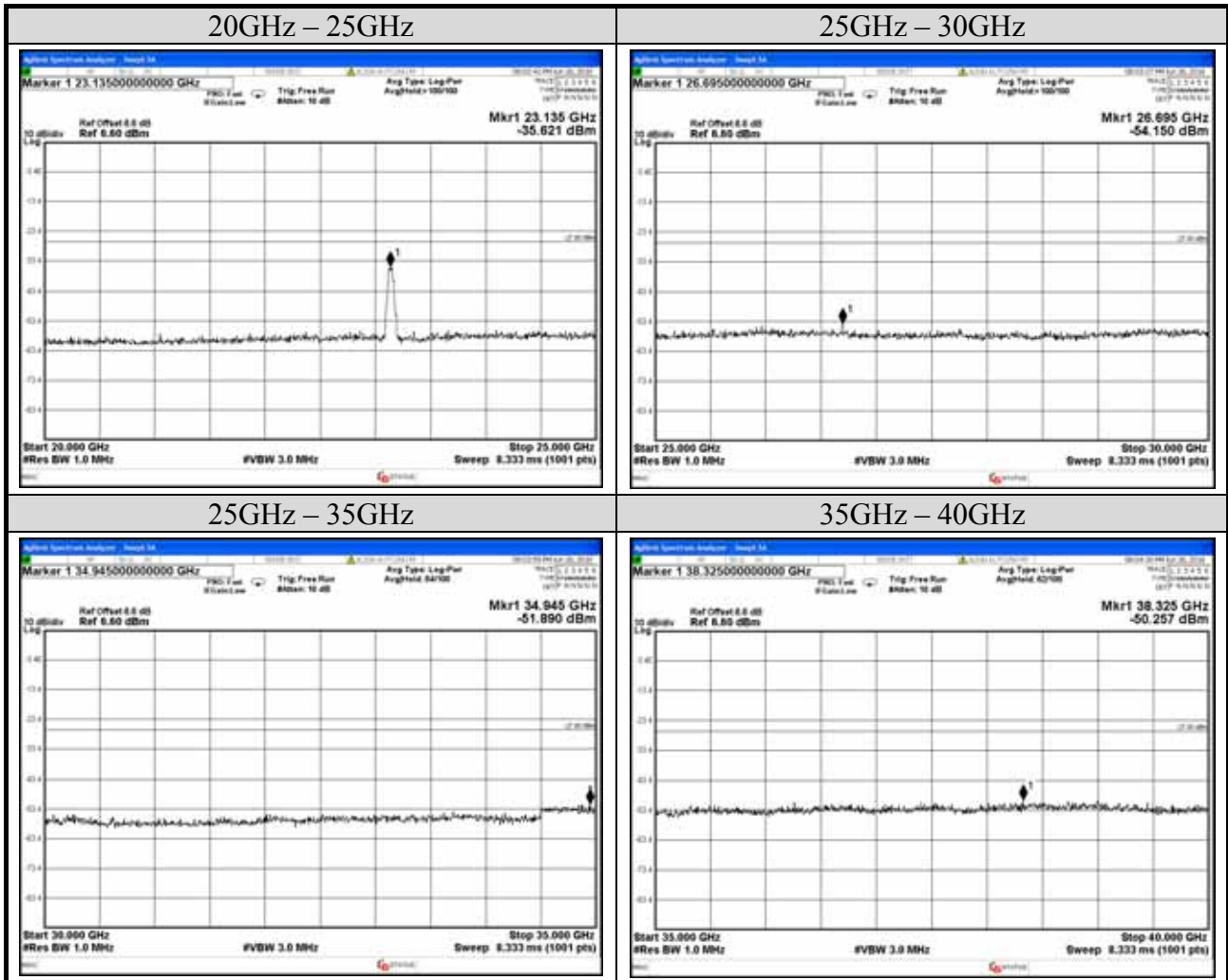




Note: The results have been included cable loss and antenna gain.

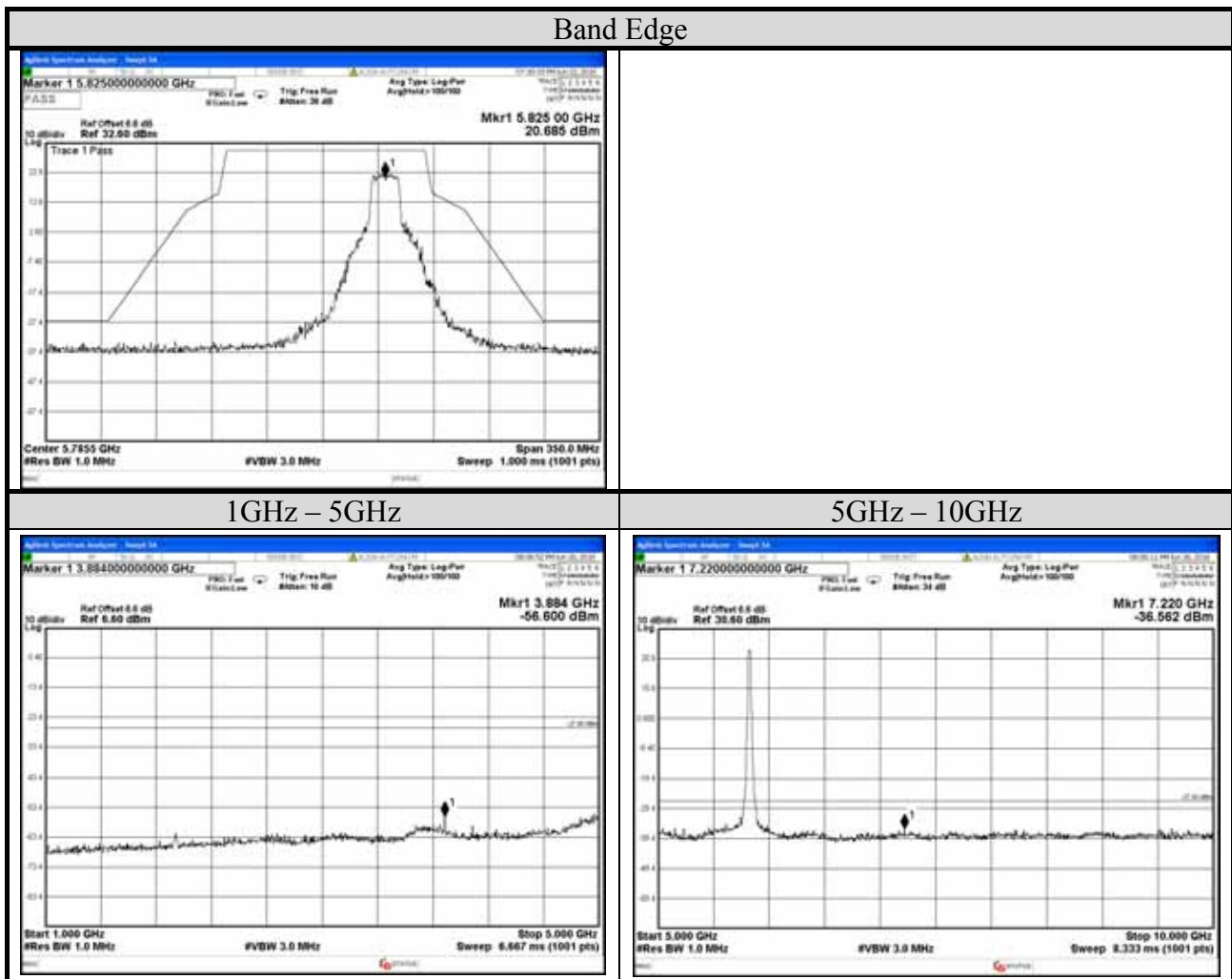
Test Date	2016/06/26	Temp./Hum.	26 /54%
Mode	802.11ac-VHT20	UNII Band	III
		Frequency	TX 5785MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

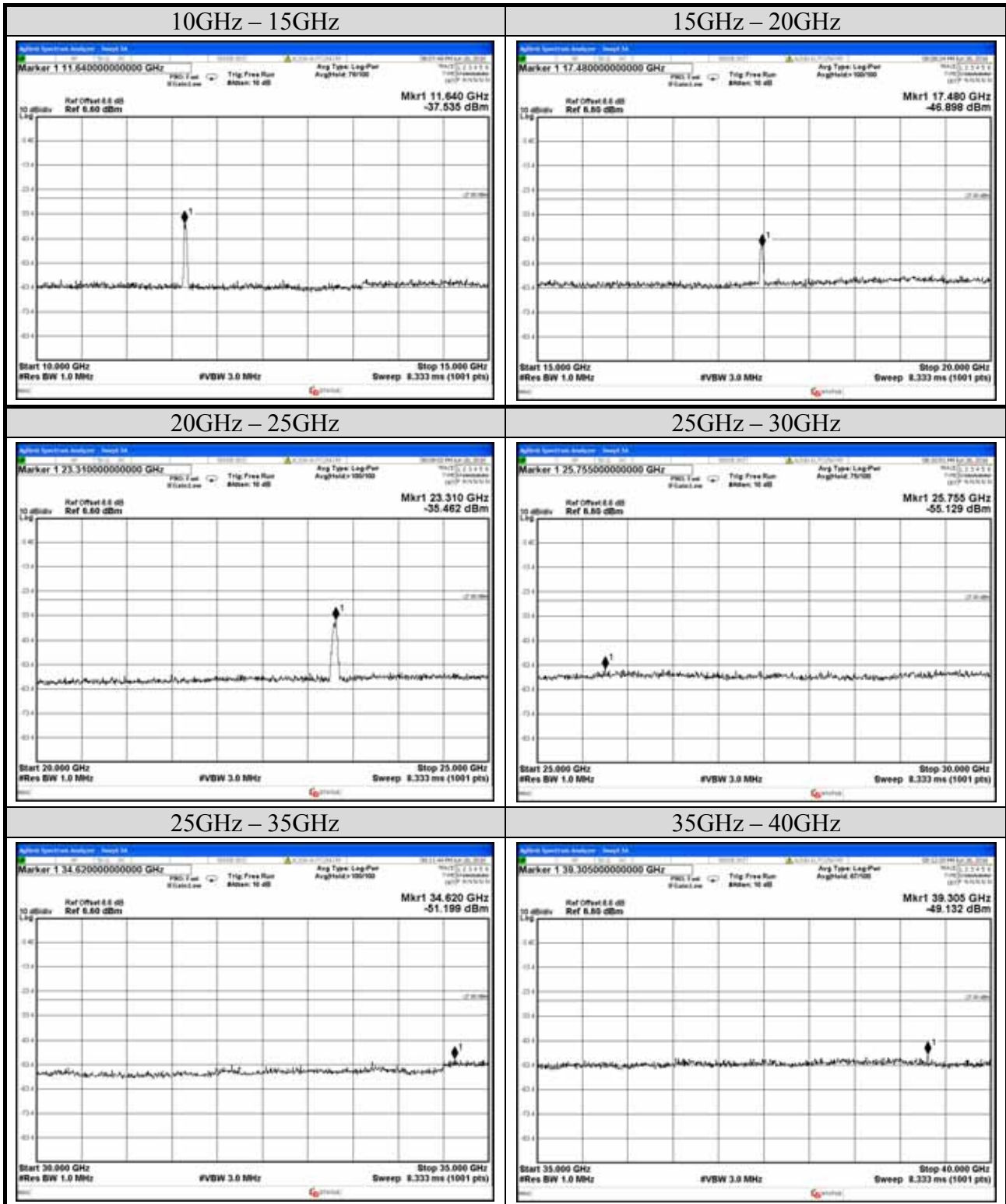




Note: The results have been included cable loss and antenna gain.

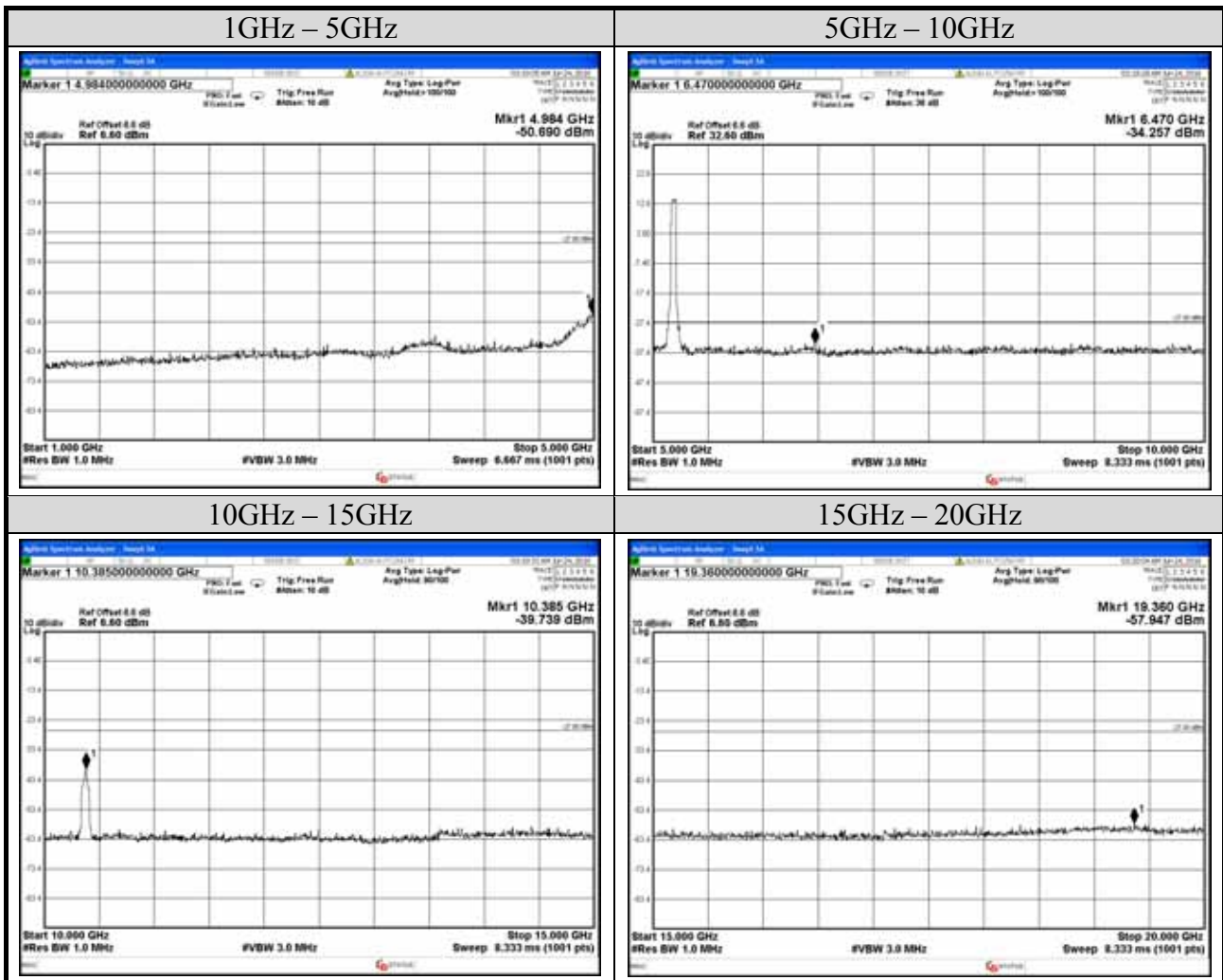
Test Date	2016/06/26 ~ 28	Temp./Hum.	26 /54%
Mode	802.11ac-VHT20	UNII Band	III
		Frequency	TX 5825MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

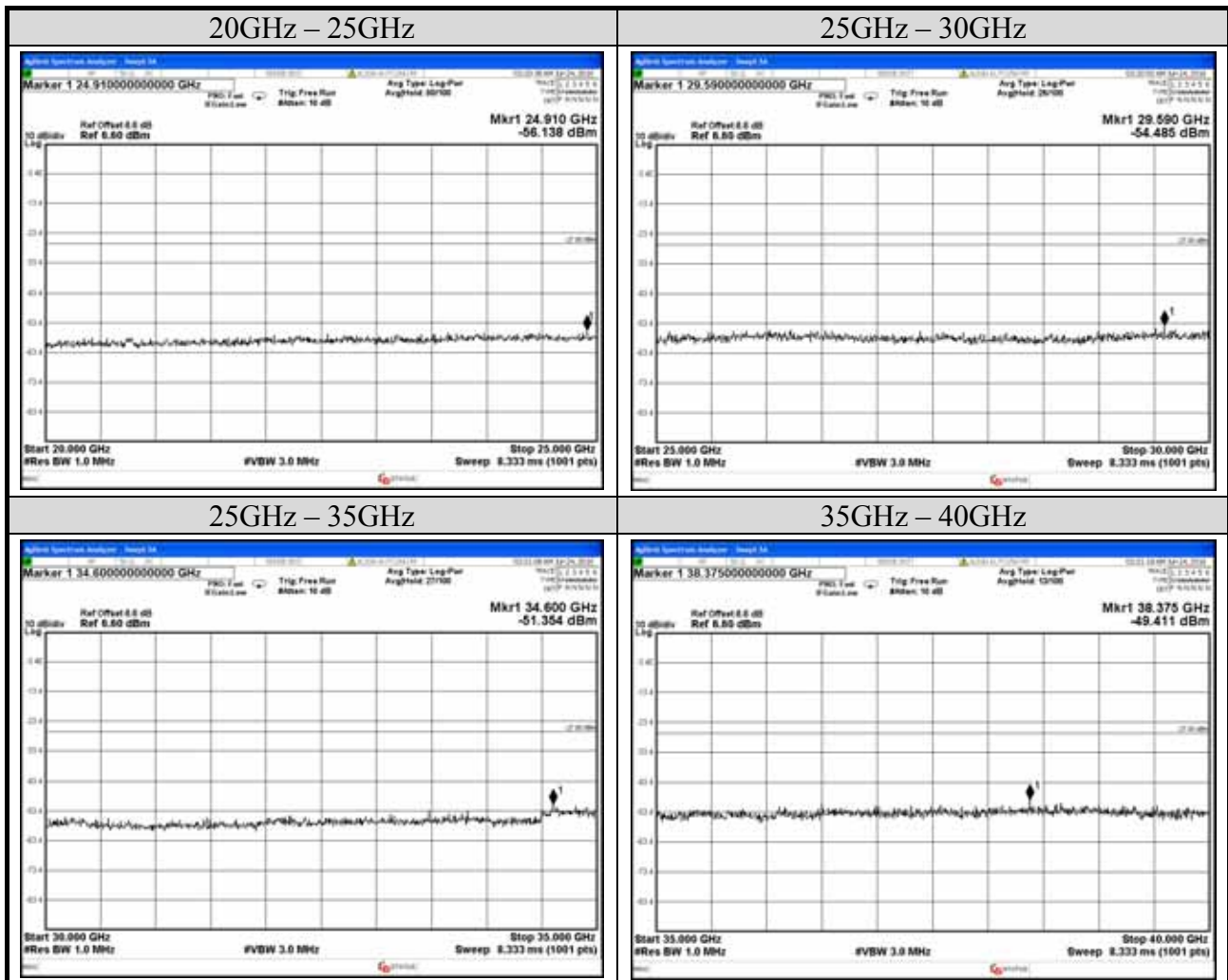




Note: The results have been included cable loss and antenna gain.

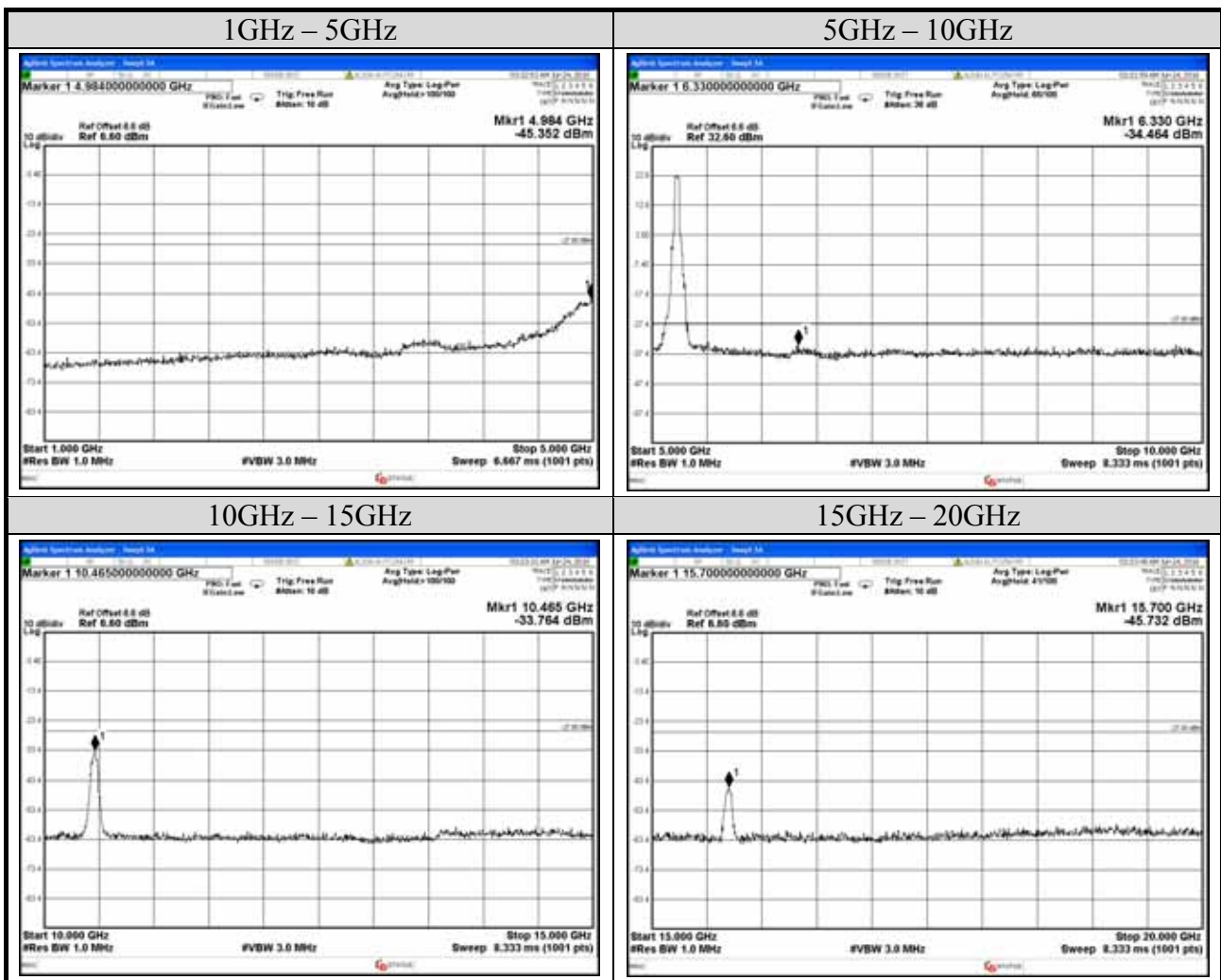
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-VHT40	UNII Band	I
		Frequency	TX 5190MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

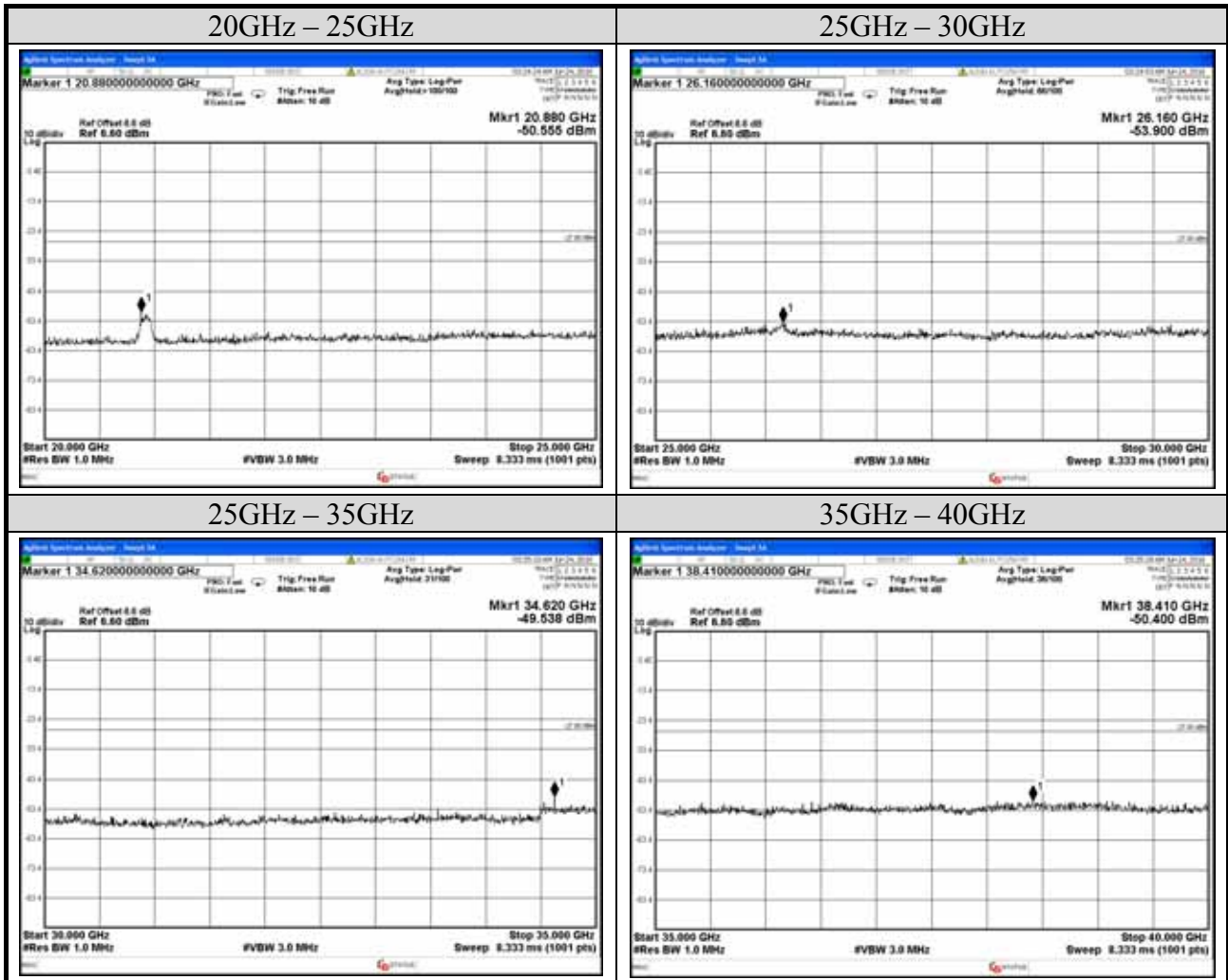




Note: The results have been included cable loss and antenna gain.

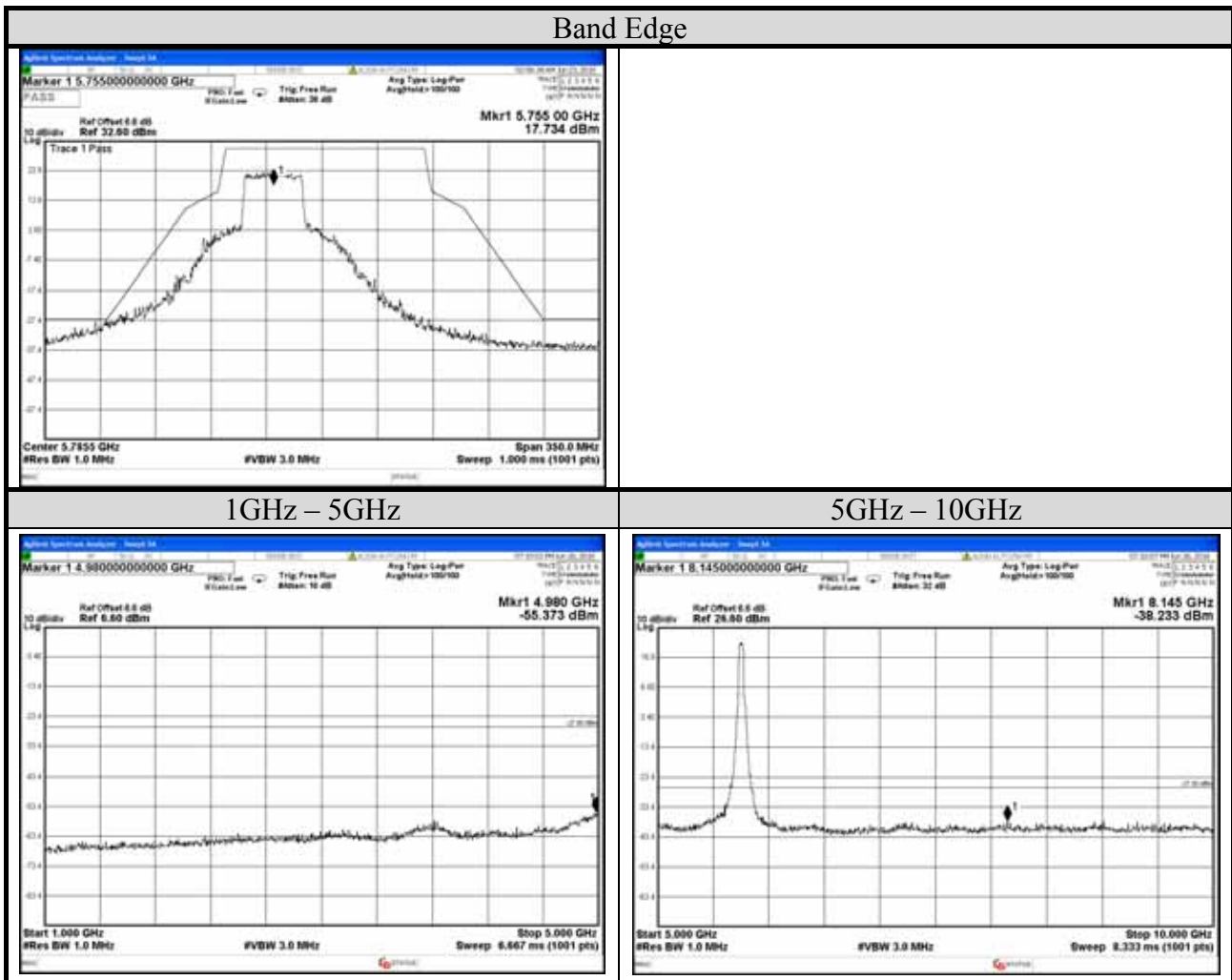
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-vHT40	UNII Band	I
		Frequency	TX 5230MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

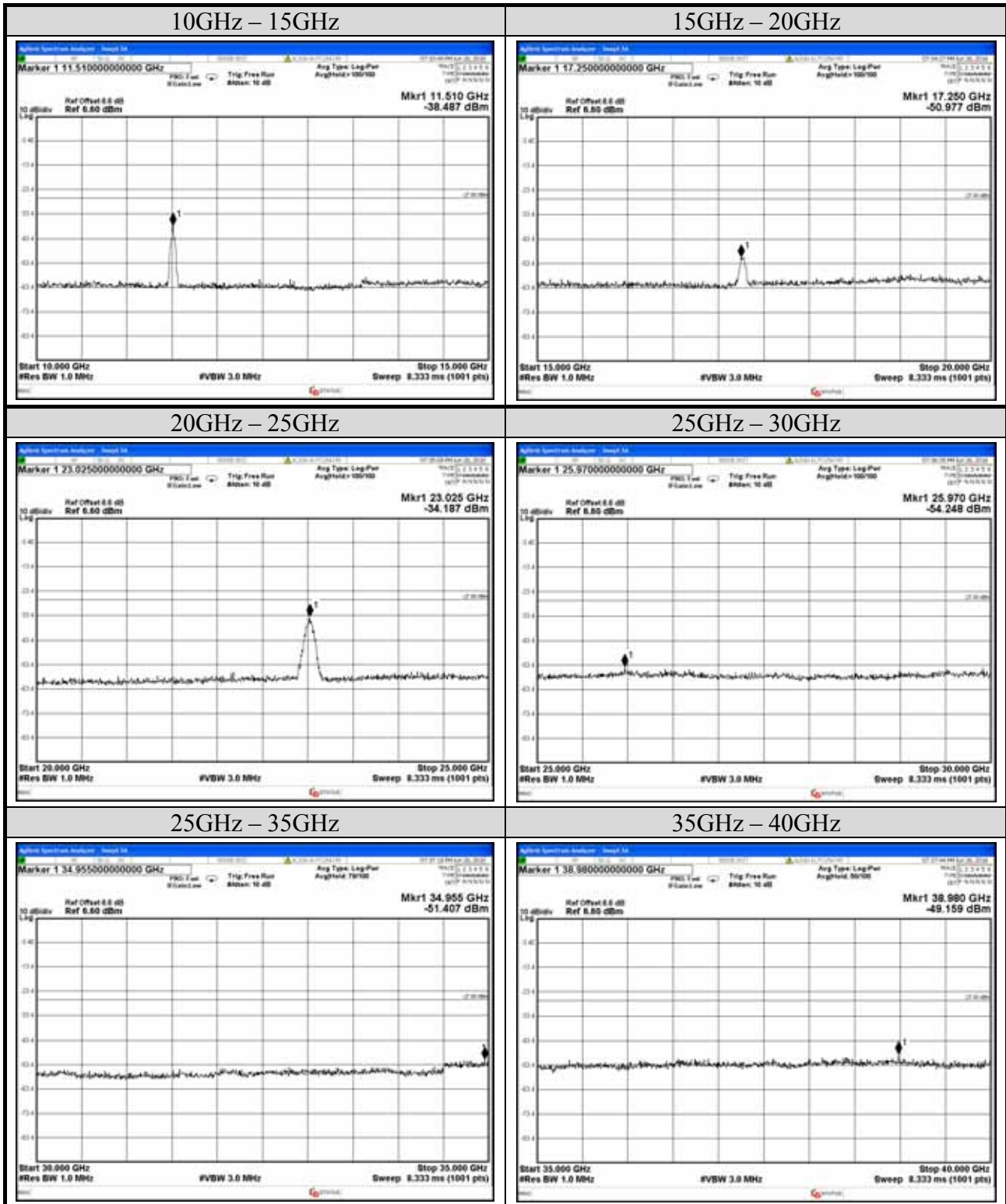




Note: The results have been included cable loss and antenna gain.

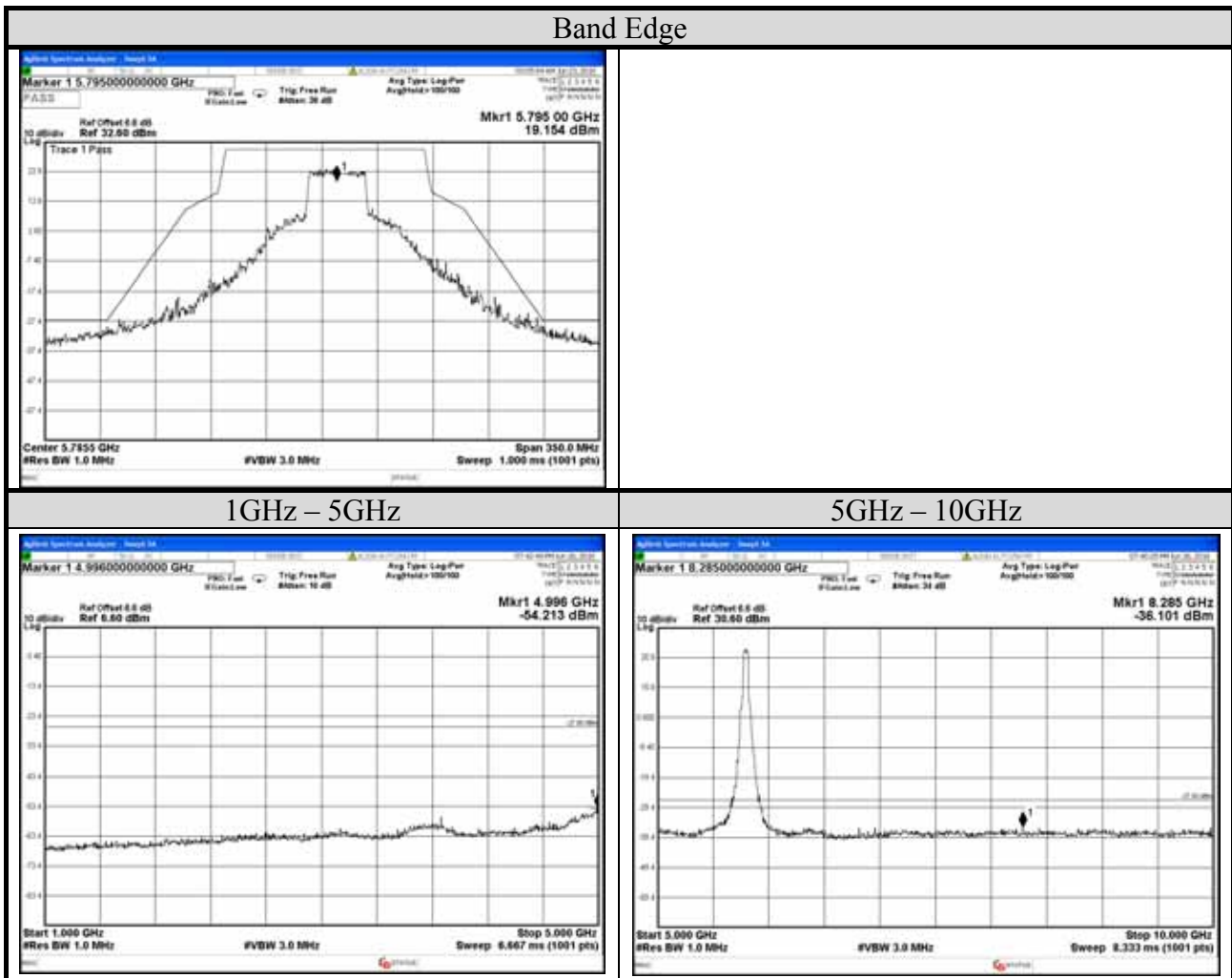
Test Date	2016/06/26 ~ 28	Temp./Hum.	26 /54%
Mode	802.11ac-VHT40	UNII Band	III
		Frequency	TX 5755MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

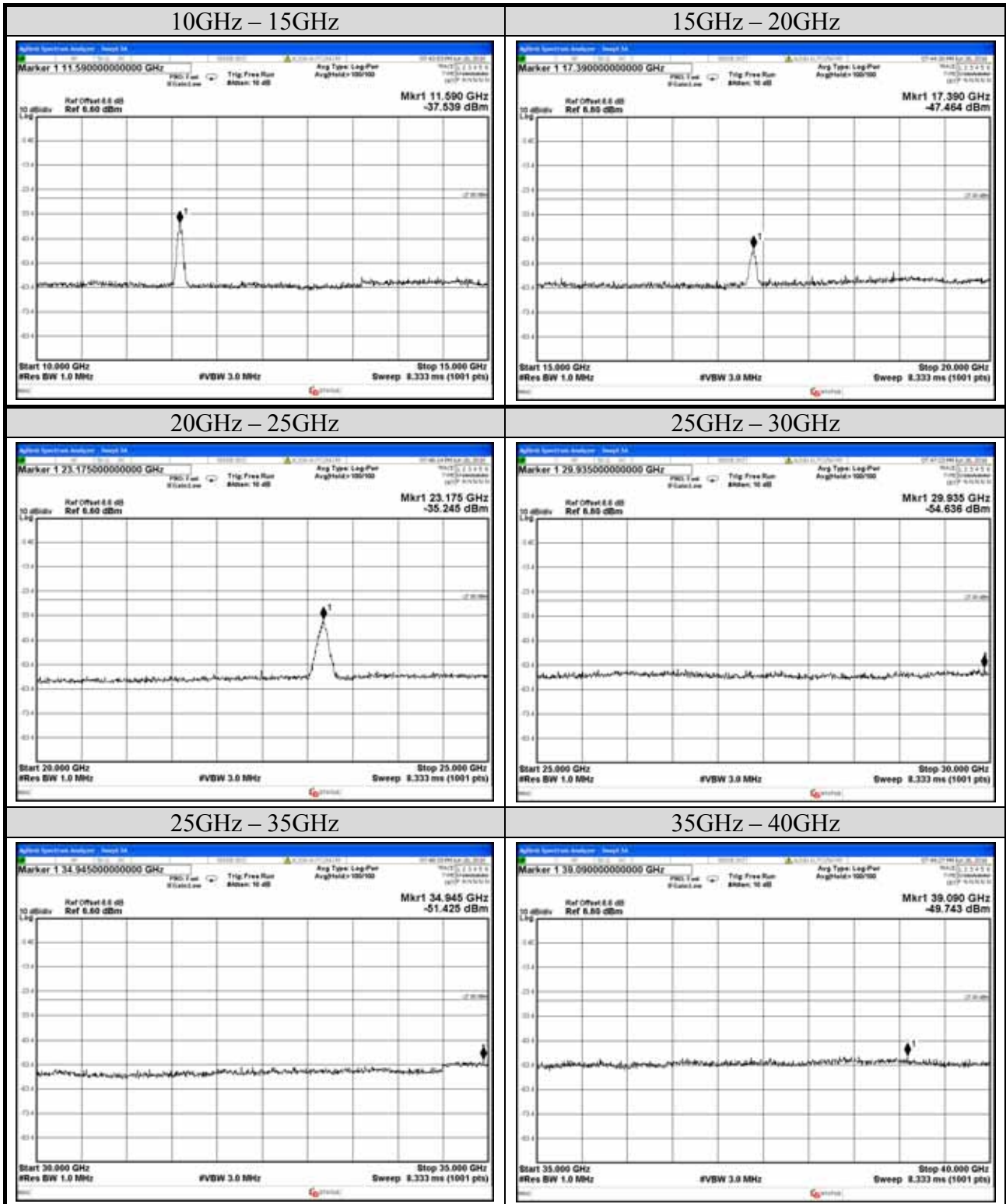




Note: The results have been included cable loss and antenna gain.

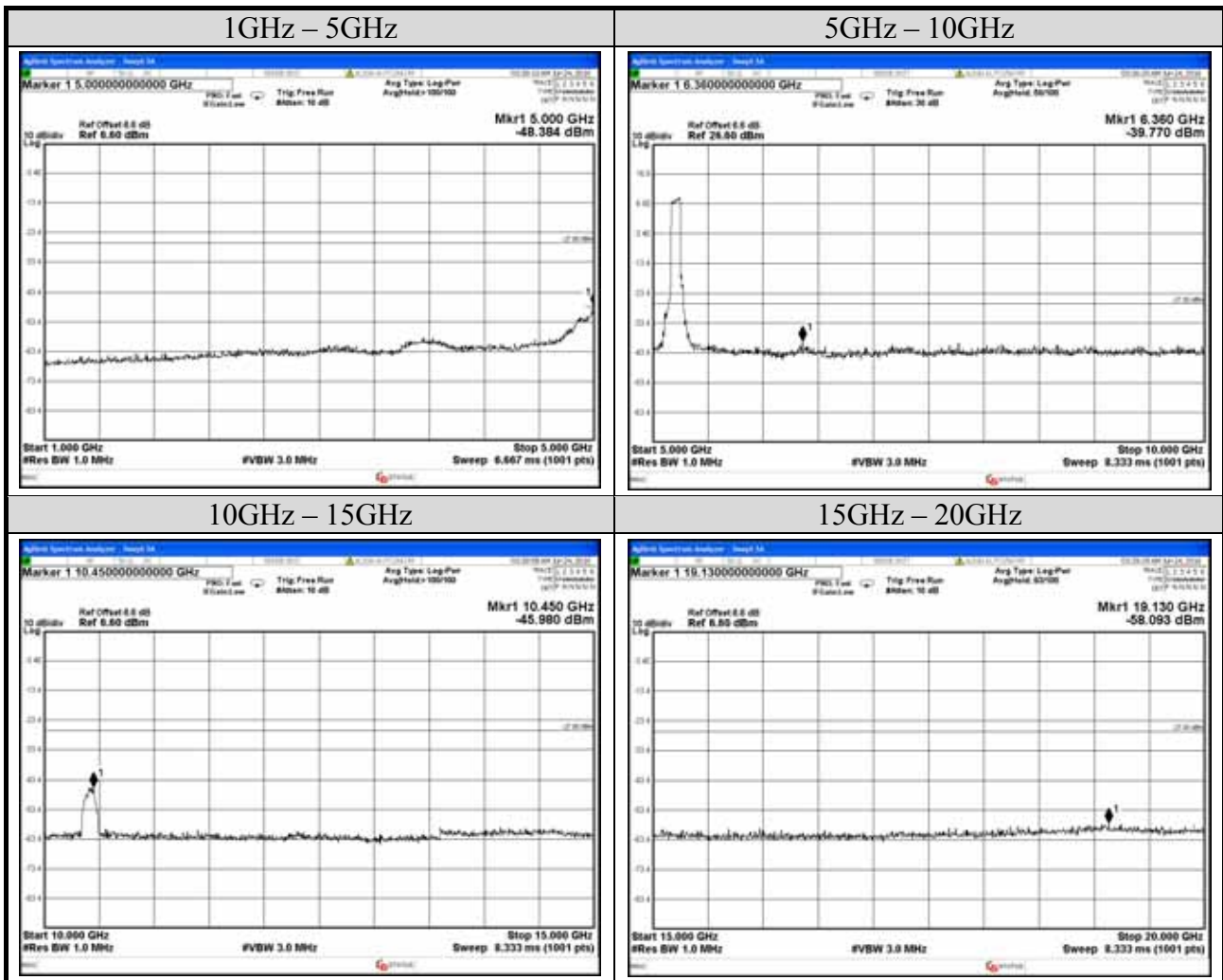
Test Date	2016/06/26 ~ 28	Temp./Hum.	26 /54%
Mode	802.11ac-VHT40	UNII Band	III
		Frequency	TX 5795MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		N/A	

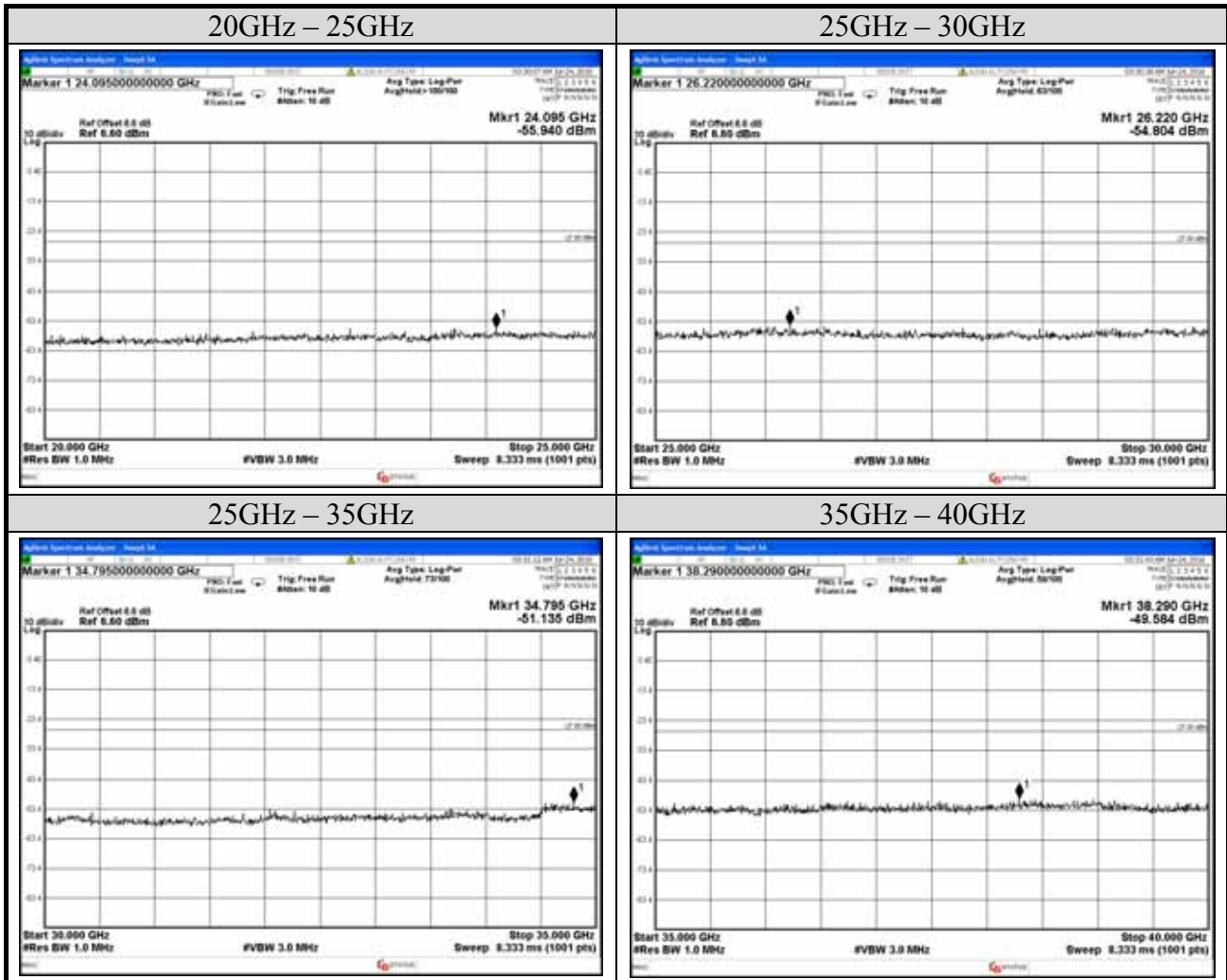




Note: The results have been included cable loss and antenna gain.

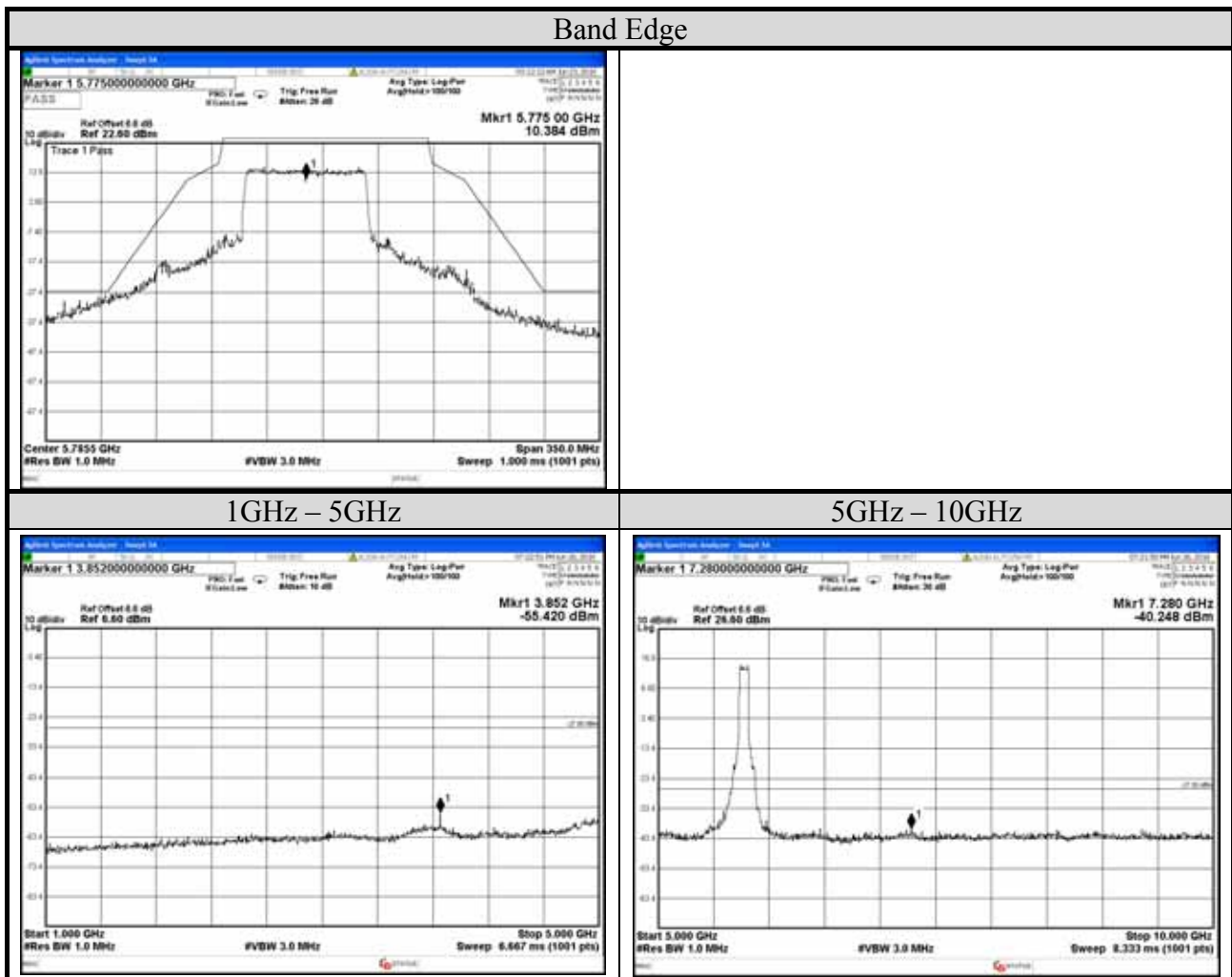
Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-VHT80	UNII Band	I
		Frequency	TX 5210MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	

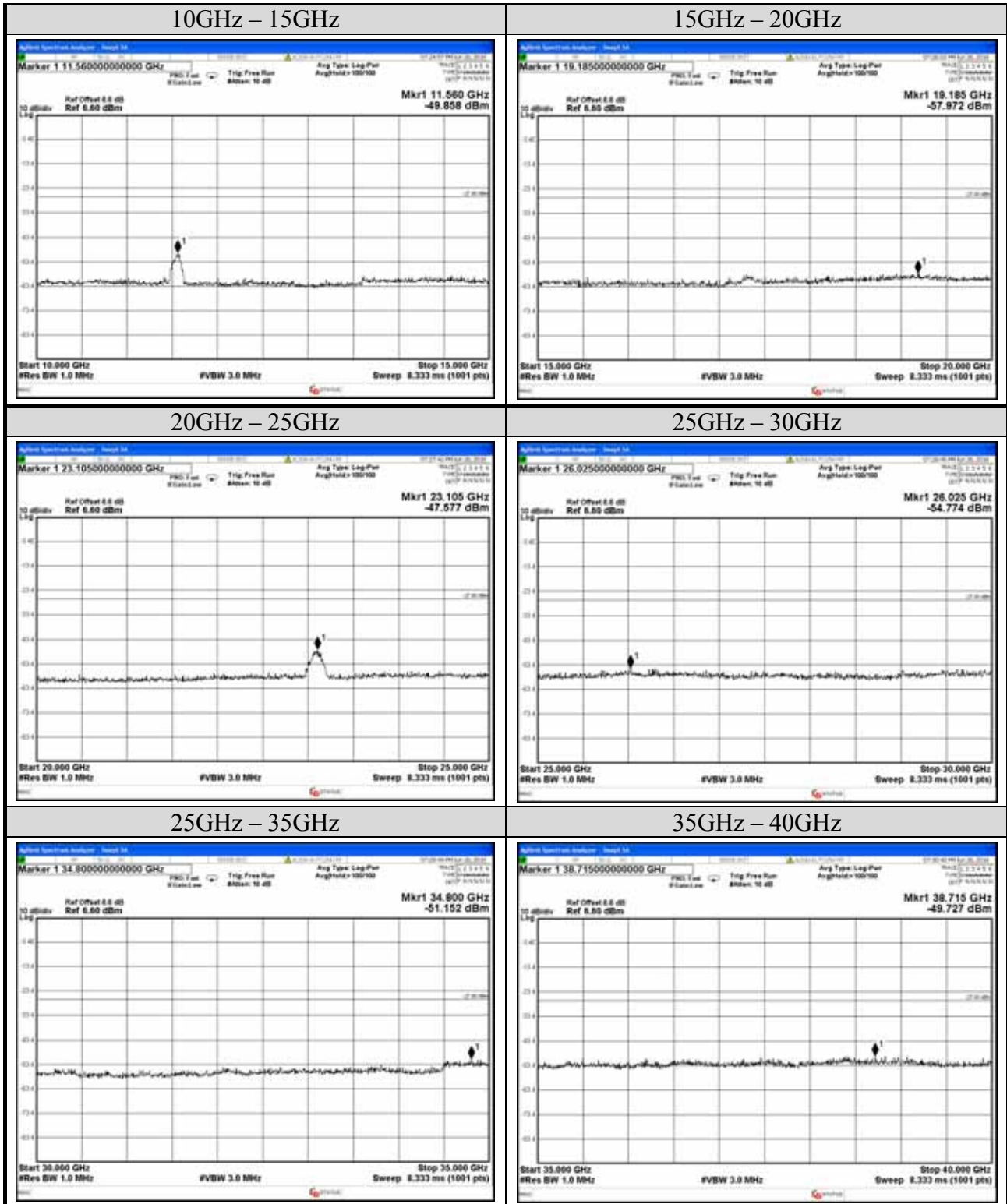




Note: The results have been included cable loss and antenna gain.

Test Date	2016/06/24	Temp./Hum.	26 /54%
Mode	802.11ac-VHT80	UNII Band	III
		Frequency	TX 5775MHz
Offset factor	6.6dB	Test Voltage	AC 120V, 60Hz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		N/A	





Note: The results have been included cable loss and antenna gain.

A.4 POWER SPECTRAL DENSITY

A.4.1 Power Spectral Density

Test Date	2016/06/21 ~ 24	Temp./Hum.	26 /54%
Cable Loss	1.6dB	Test Voltage	AC 120V, 60Hz

Modulation Type	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	I	5180	9.241	17dBm
		5200	11.767	
		5240	12.601	
	III	5745	11.314	30dBm/500 kHz
		5785	12.236	
		5825	12.153	
802.11ac-VHT20	I	5180	10.475	17dBm
		5200	12.357	
		5240	12.909	
	III NOTE 2	5745	11.728	30dBm/500 kHz
		5785	12.097	
		5825	11.569	
802.11ac-VHT40	I	5190	1.305	17dBm
		5230	9.205	
	III NOTE 2	5755	5.209	30dBm/500 kHz
		5795	7.832	
802.11ac-VHT80	I	5210	-3.555	17dBm
	III NOTE 2	5775	-1.500	30dBm/500 kHz

Note 1: Simultaneous Factor $10 \log(n)$ has been included in the test result.

Note 2: BWCF 6.99dB (100 converted to 500) has been included in the test result.

A.4.2 Measurement Plots

