

Test Report No.50148967 001

Appendix D: Radiated Spurious Emission Data

(File: 50148967AppendixD)

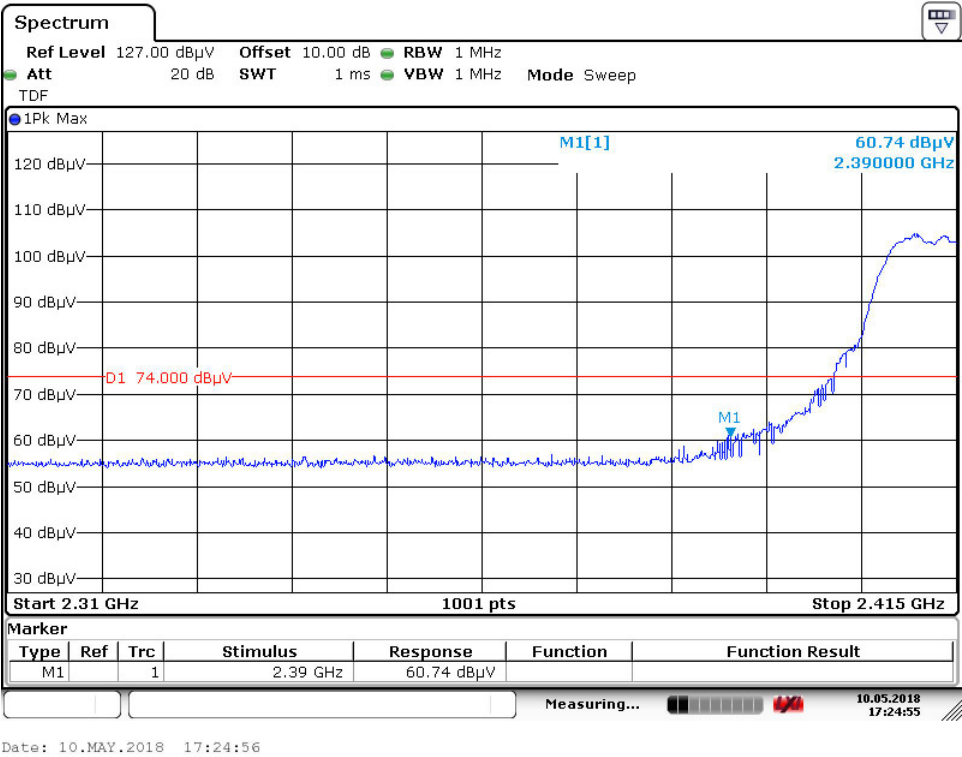
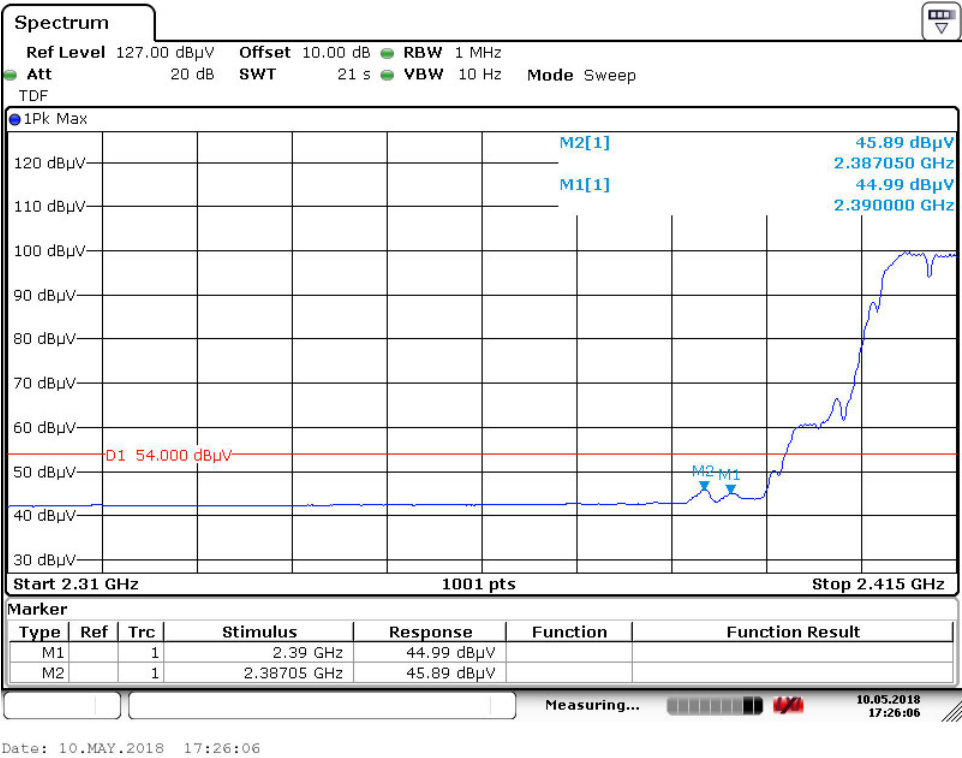
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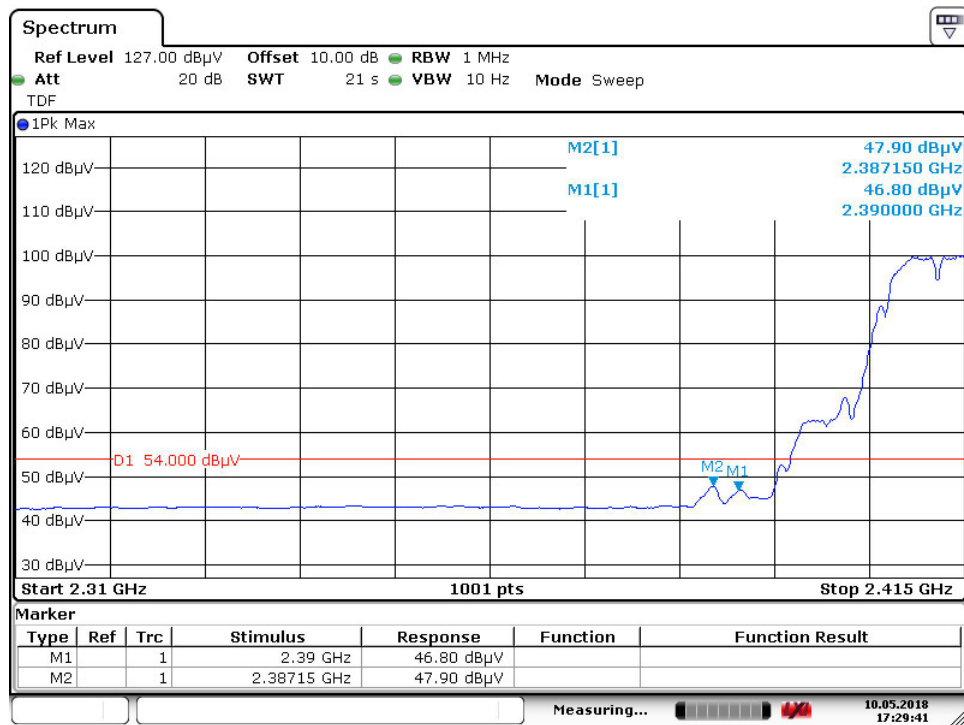
Radiated Emissions, Band Edges, 2.35-2.5G

Radiated Bandedge 11b

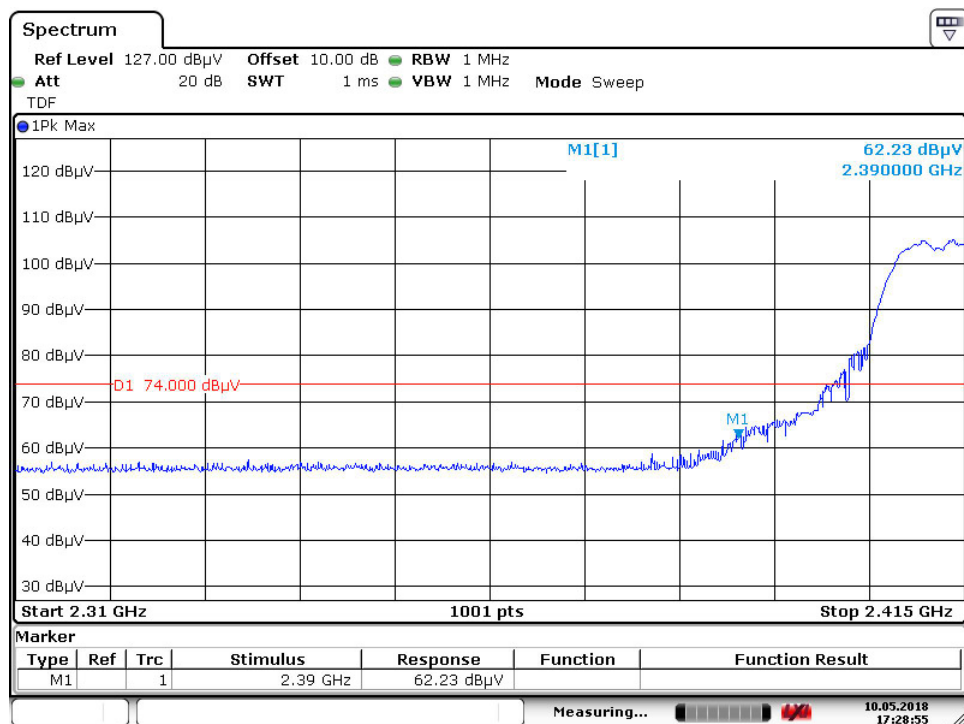
Low Channel (Hor)



Low Channel (Ver)

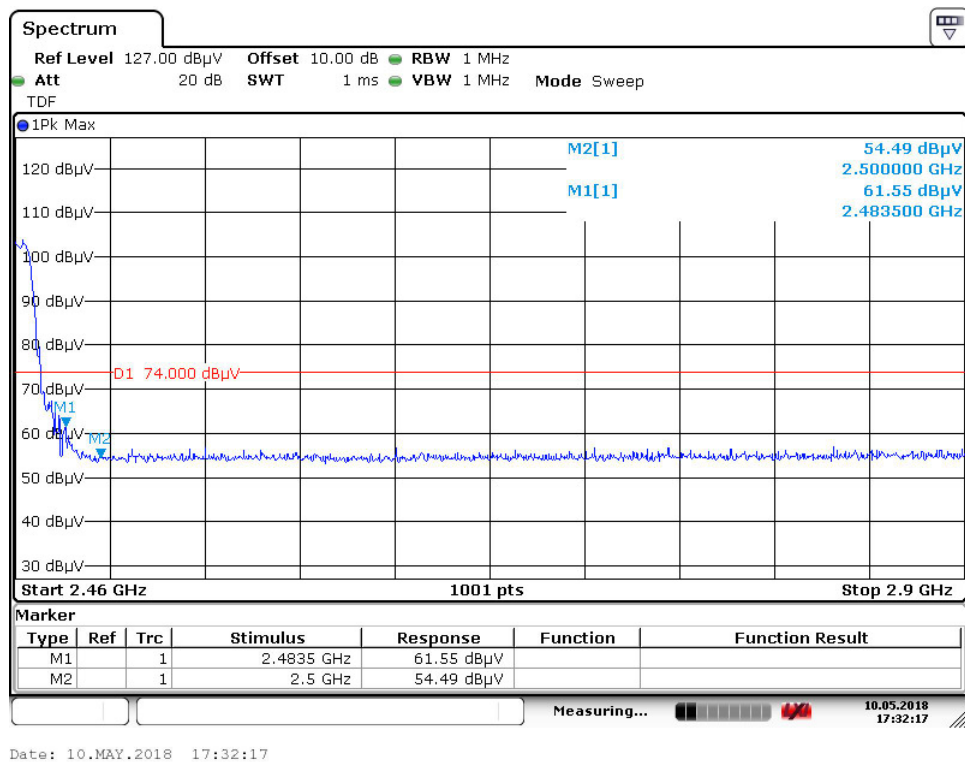
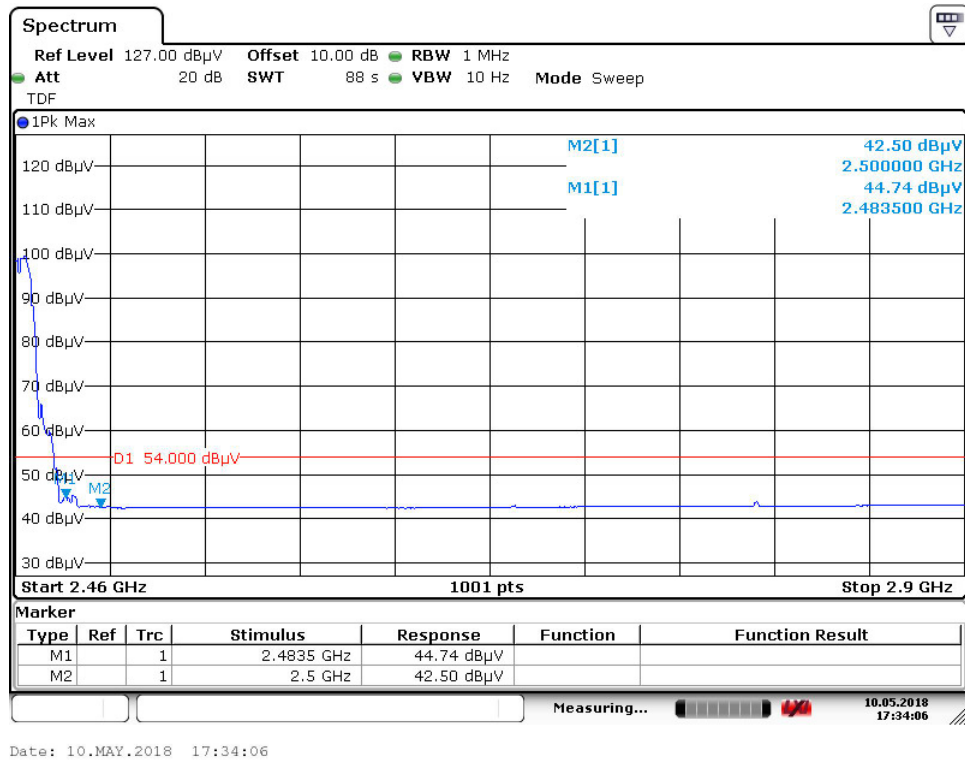


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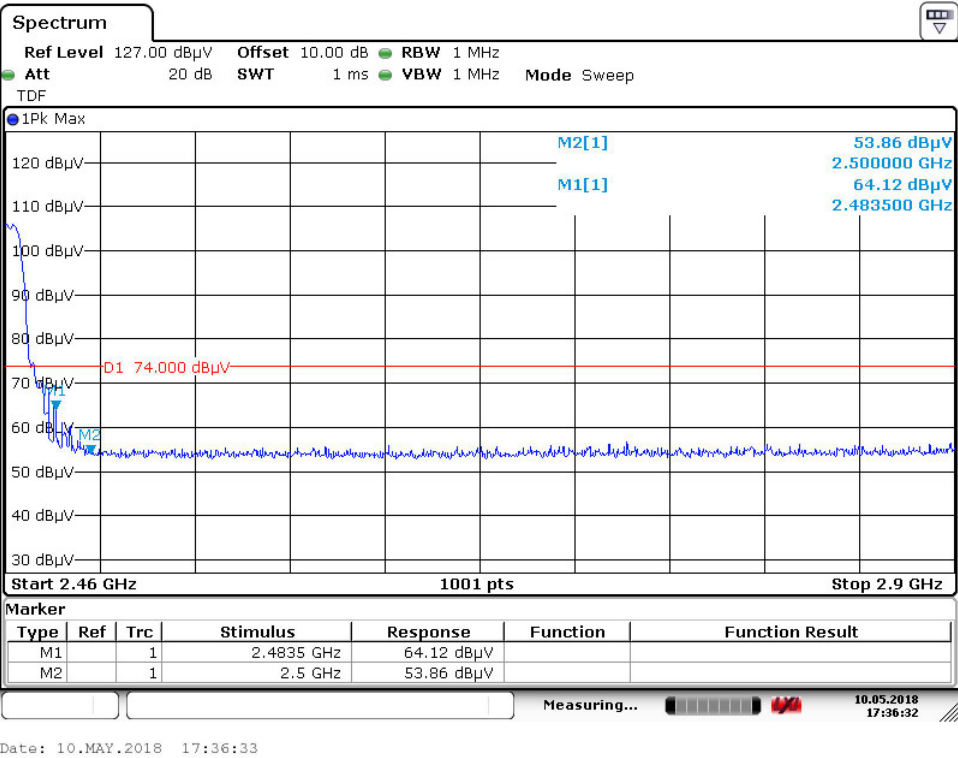
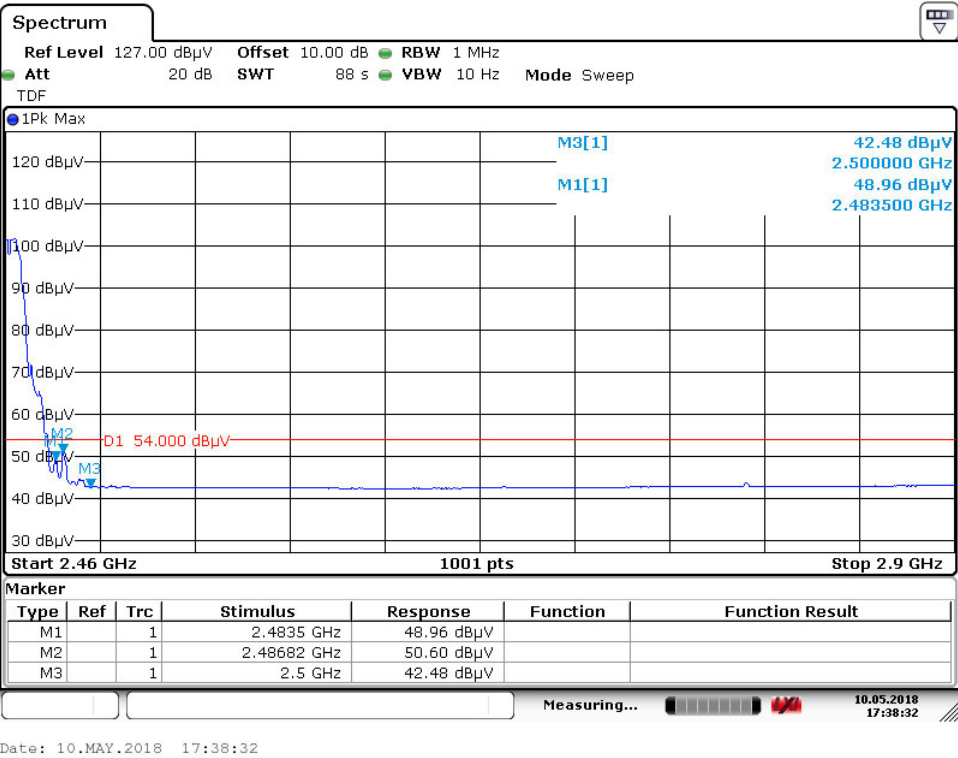


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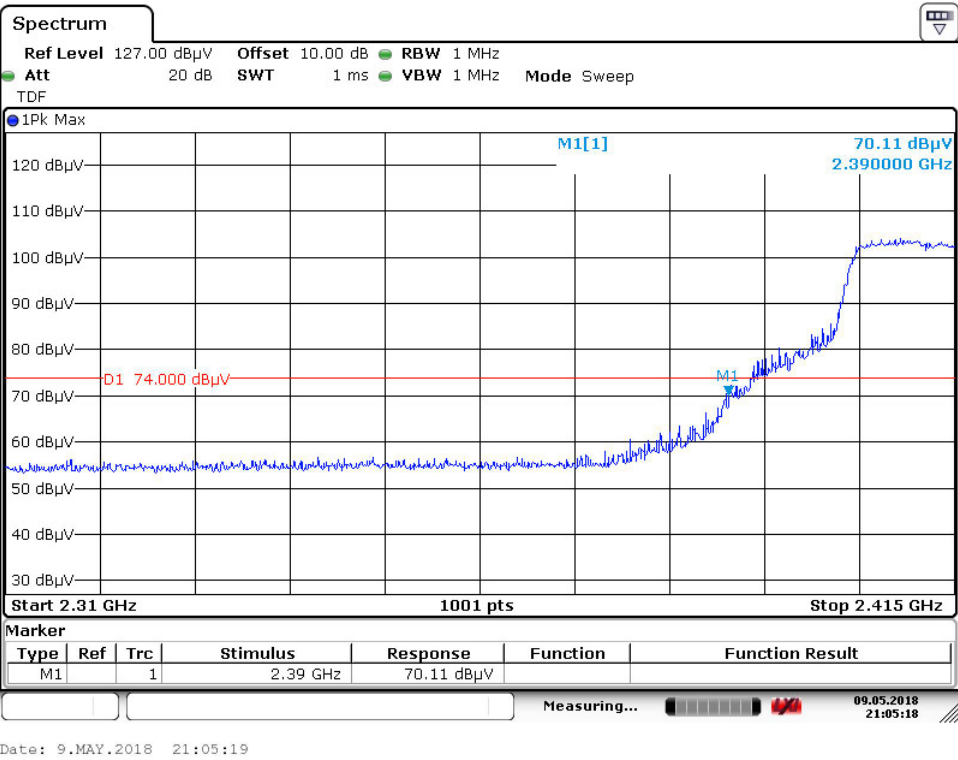
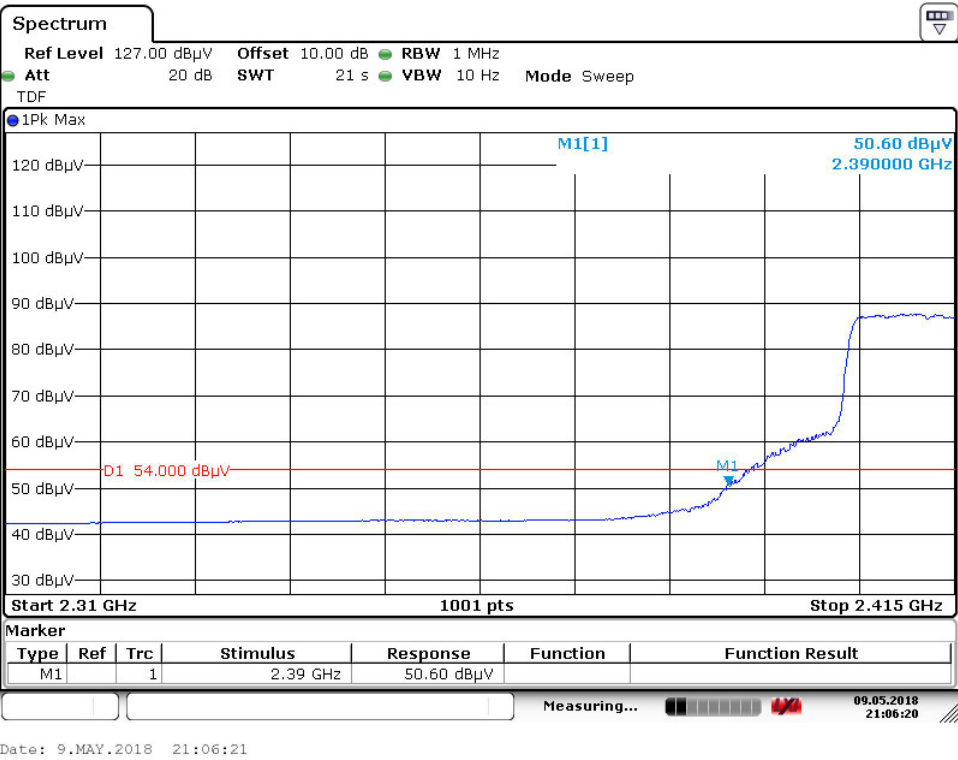
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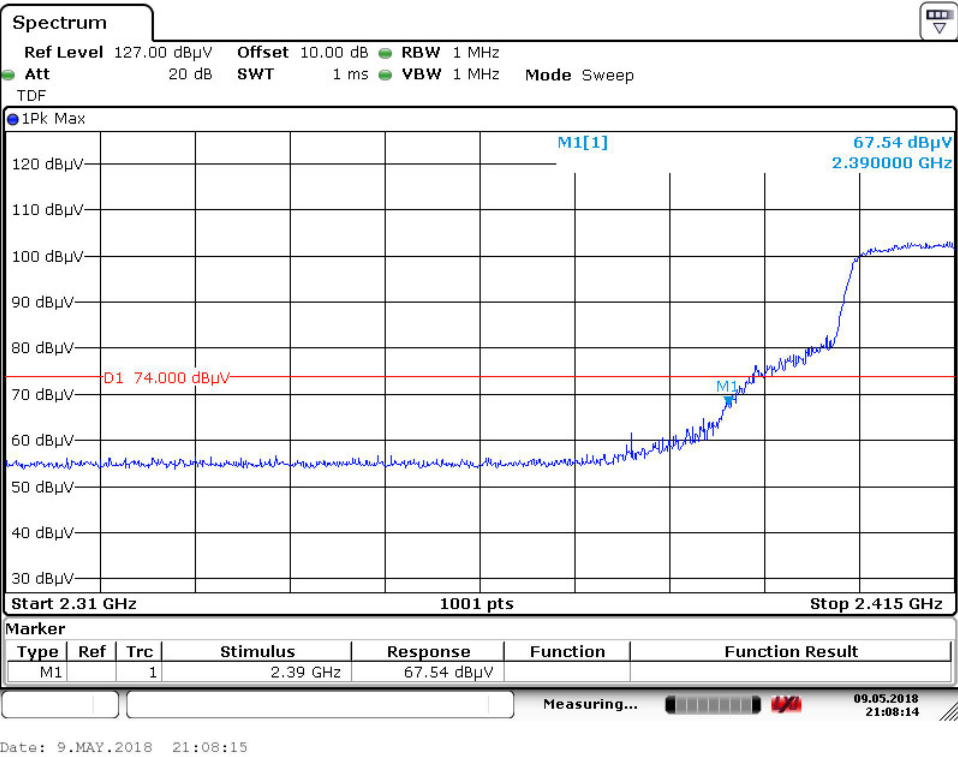
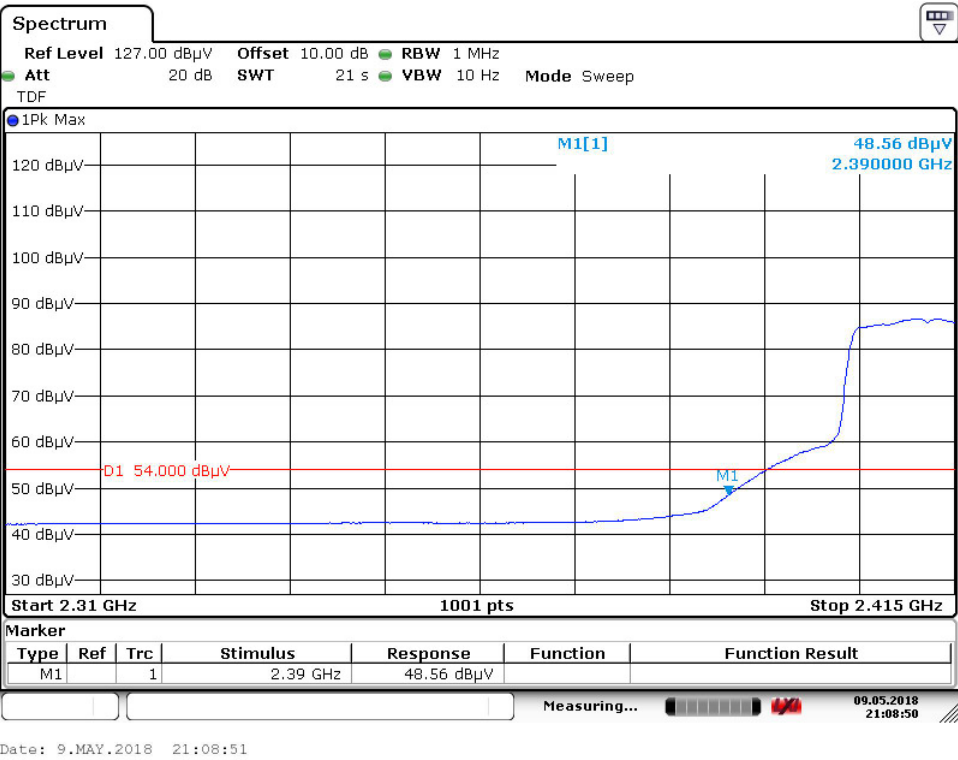
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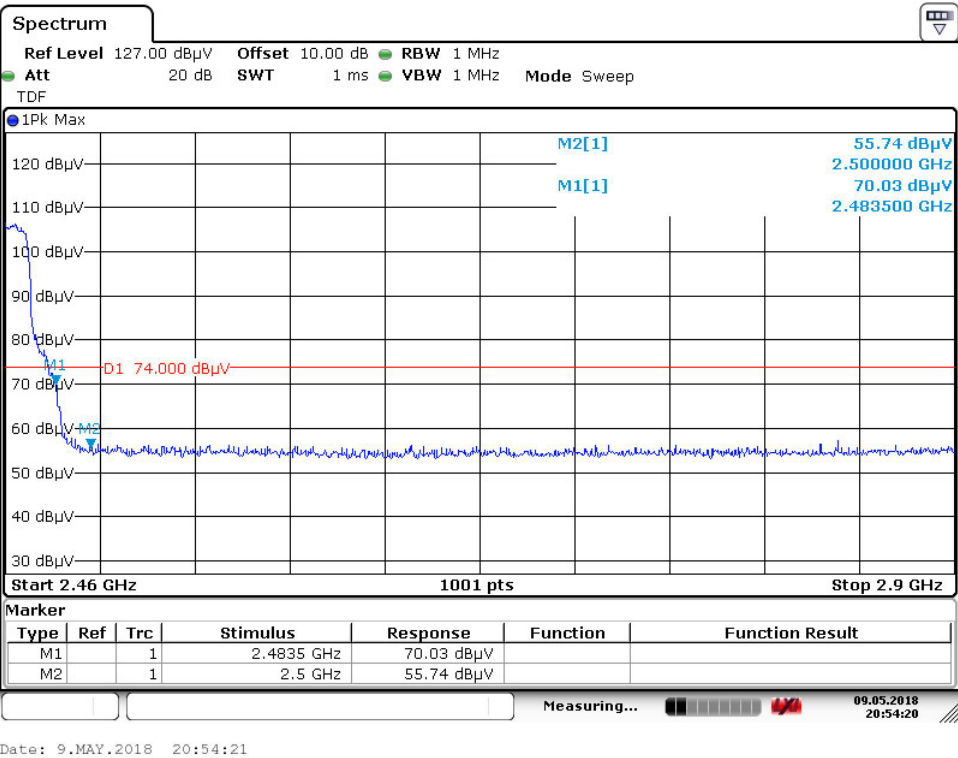
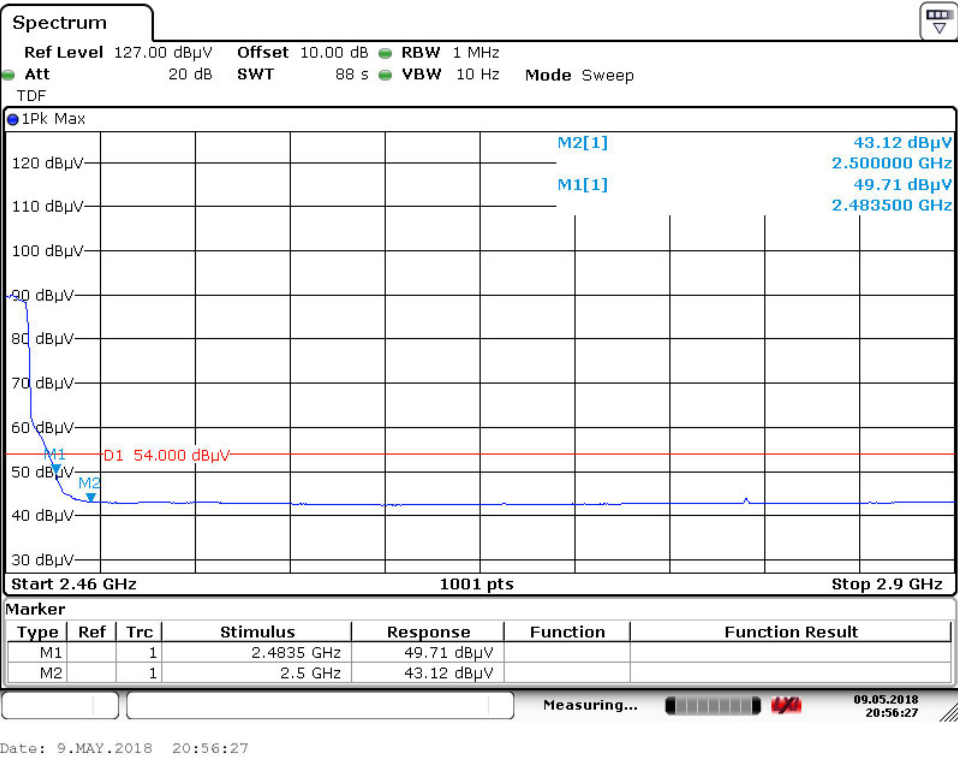
Radiated Bandedge 11g
Low Channel (Hor)



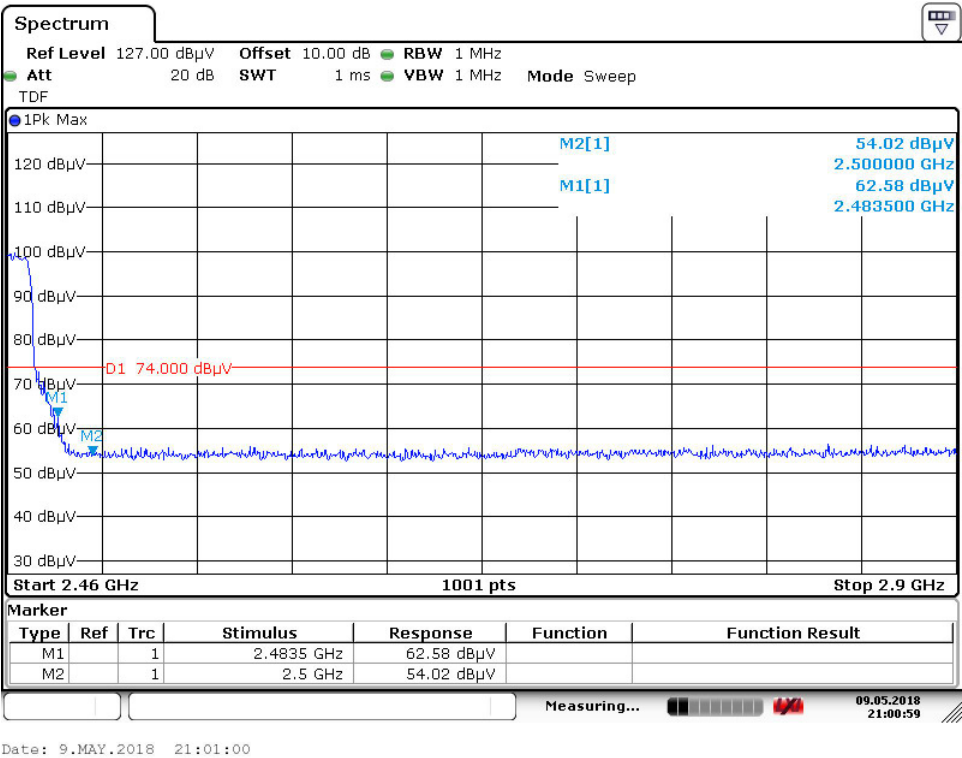
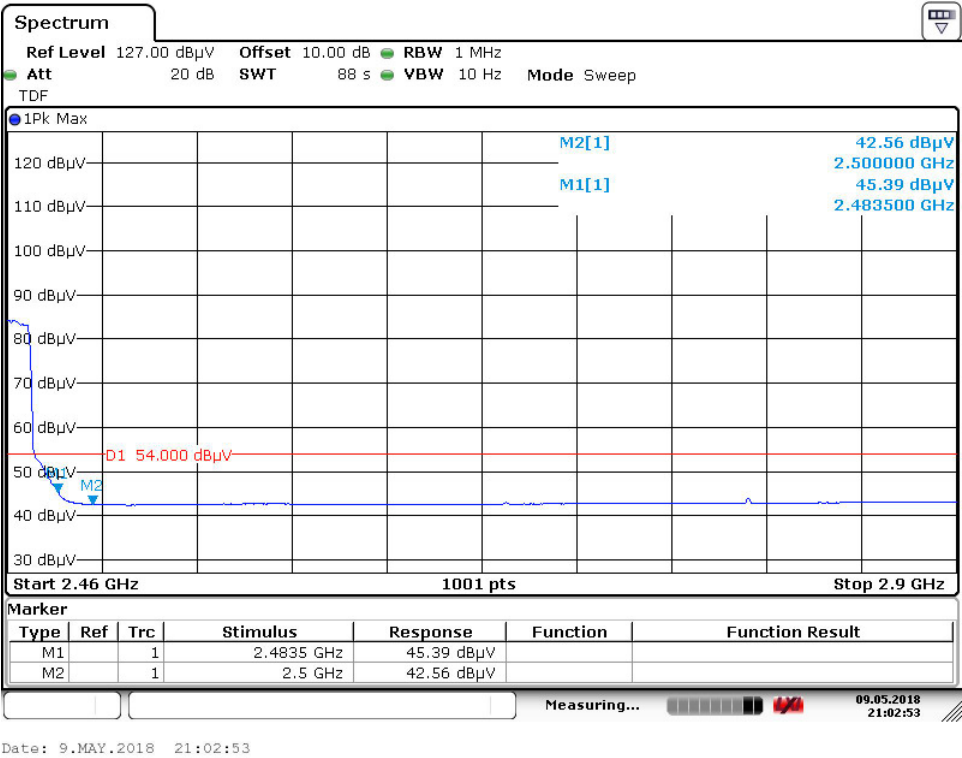
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High Channel (Hor)

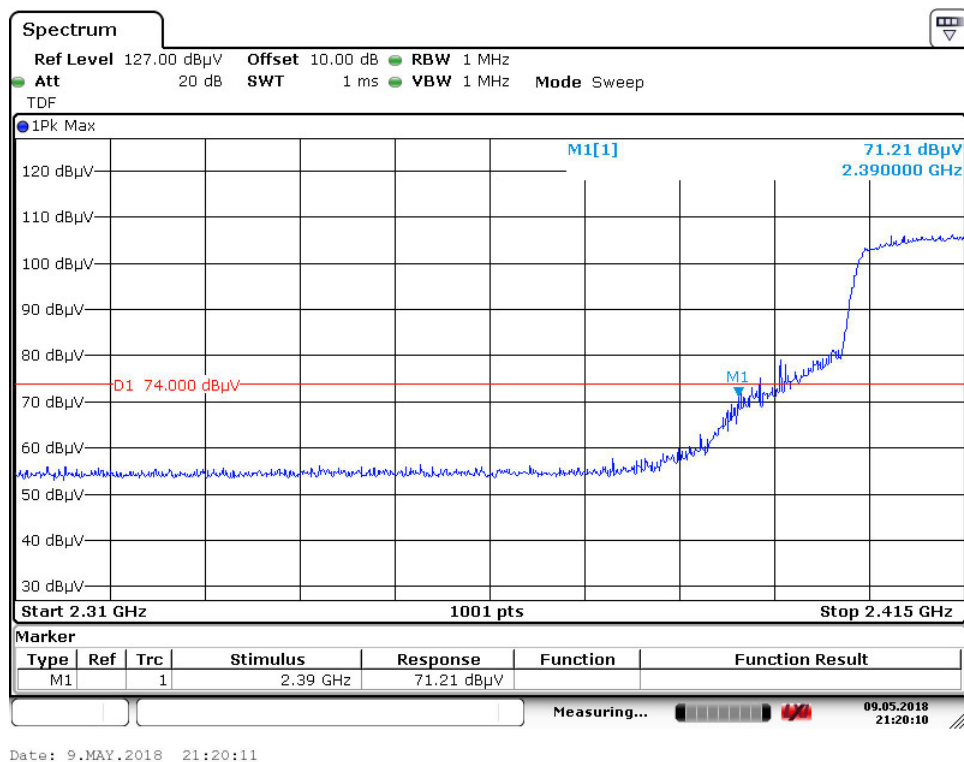
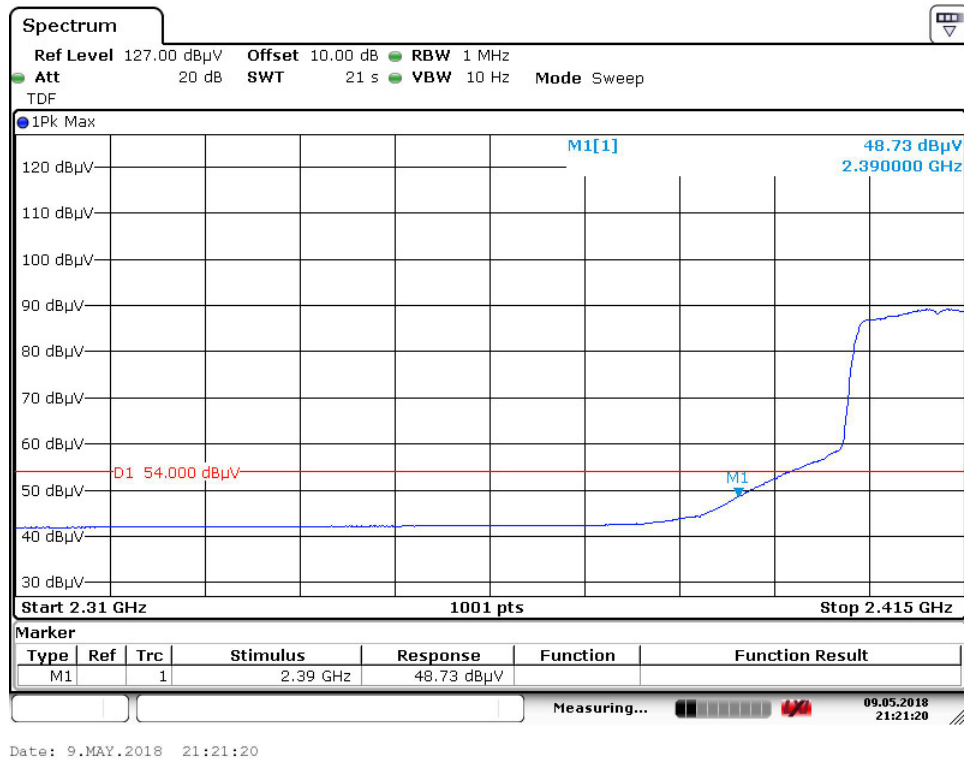


High Channel (Ver)

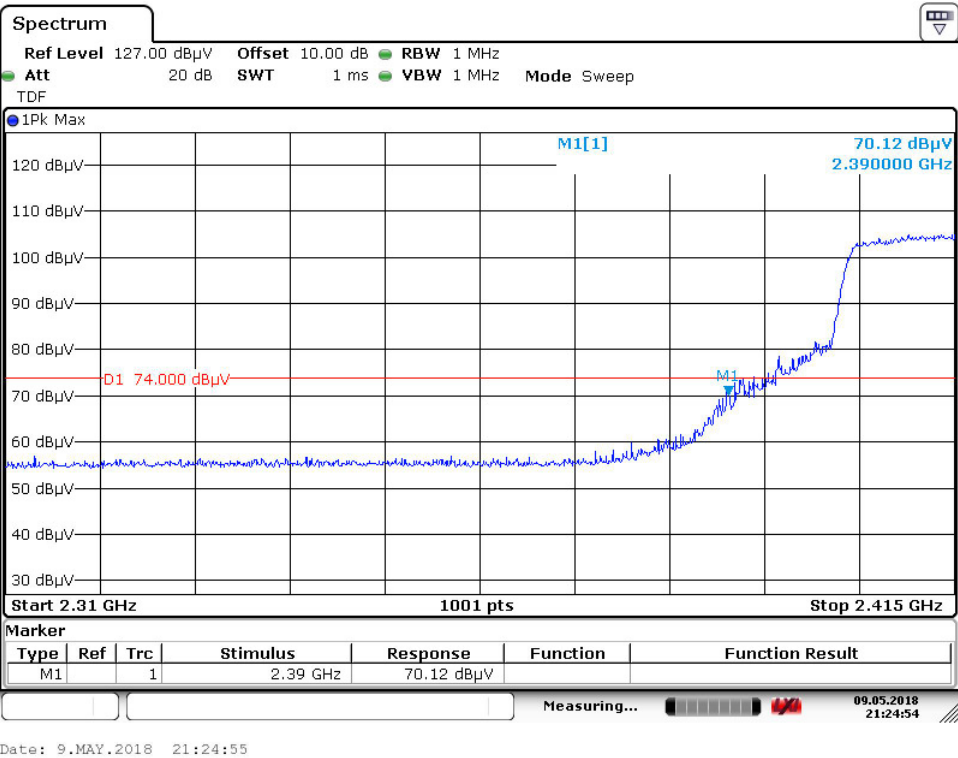
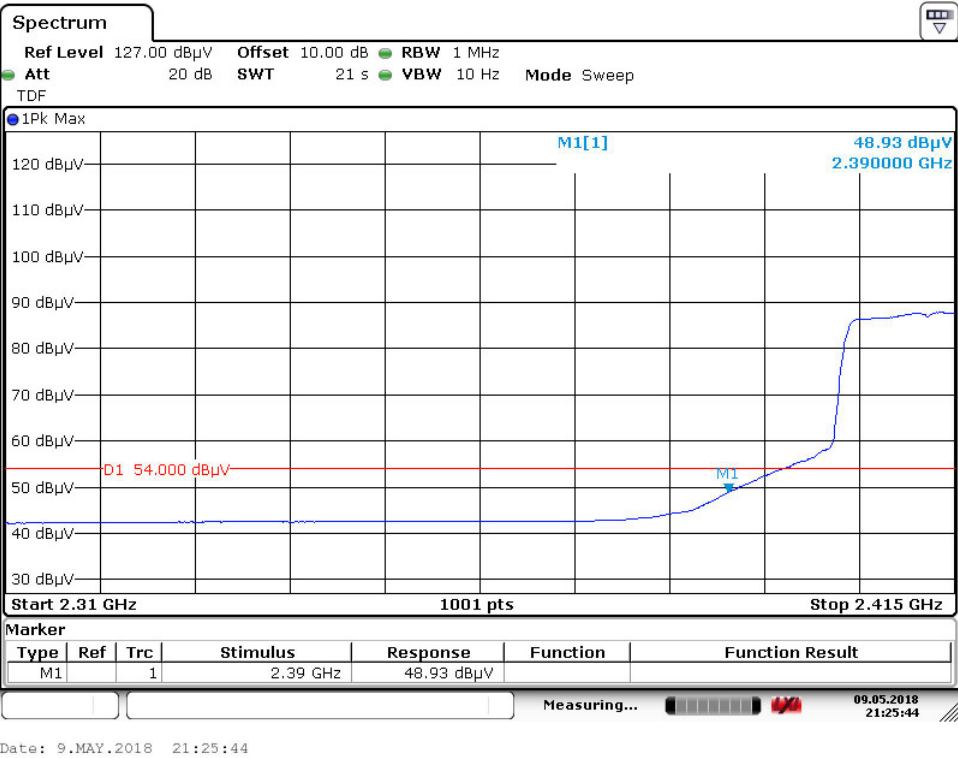


Radiated Bandedge 11n_20M

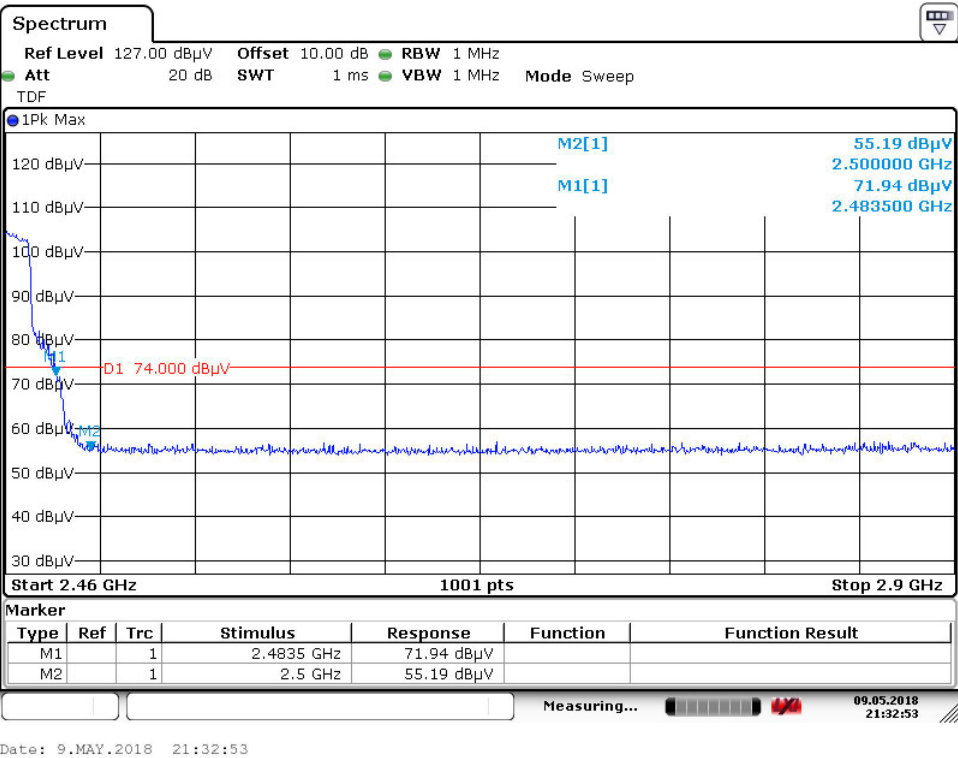
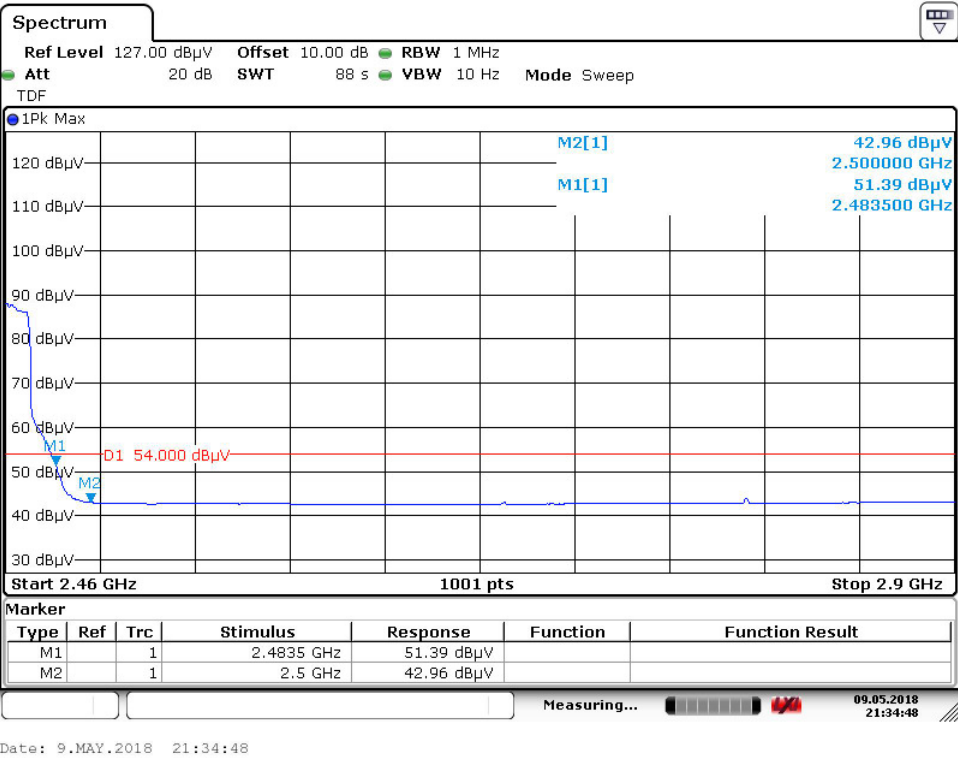
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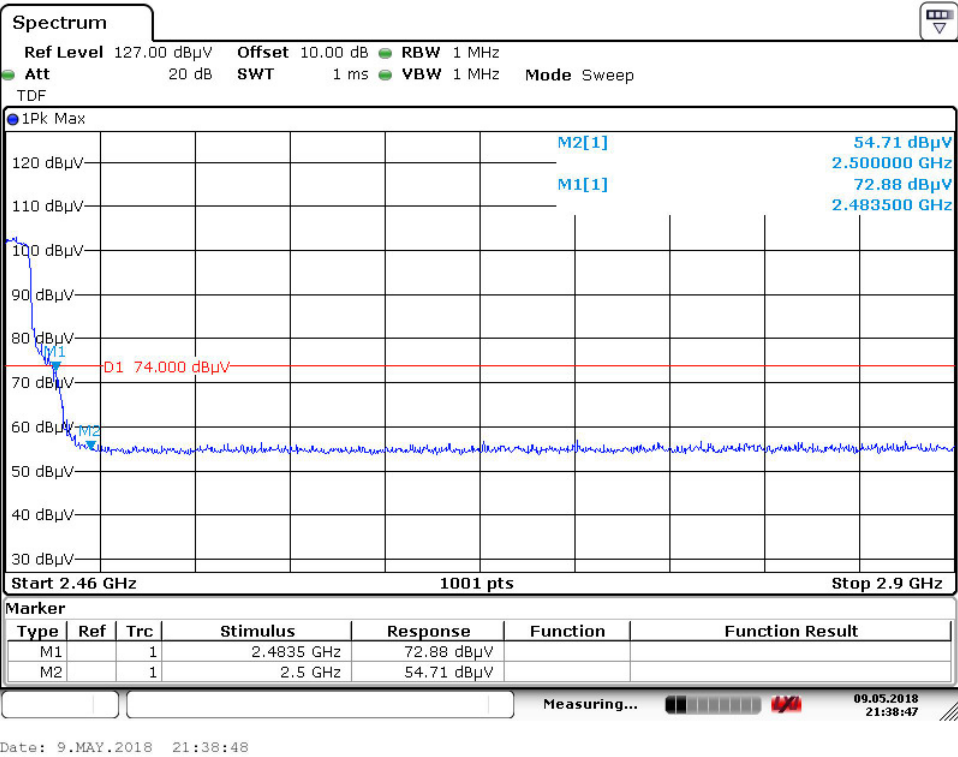
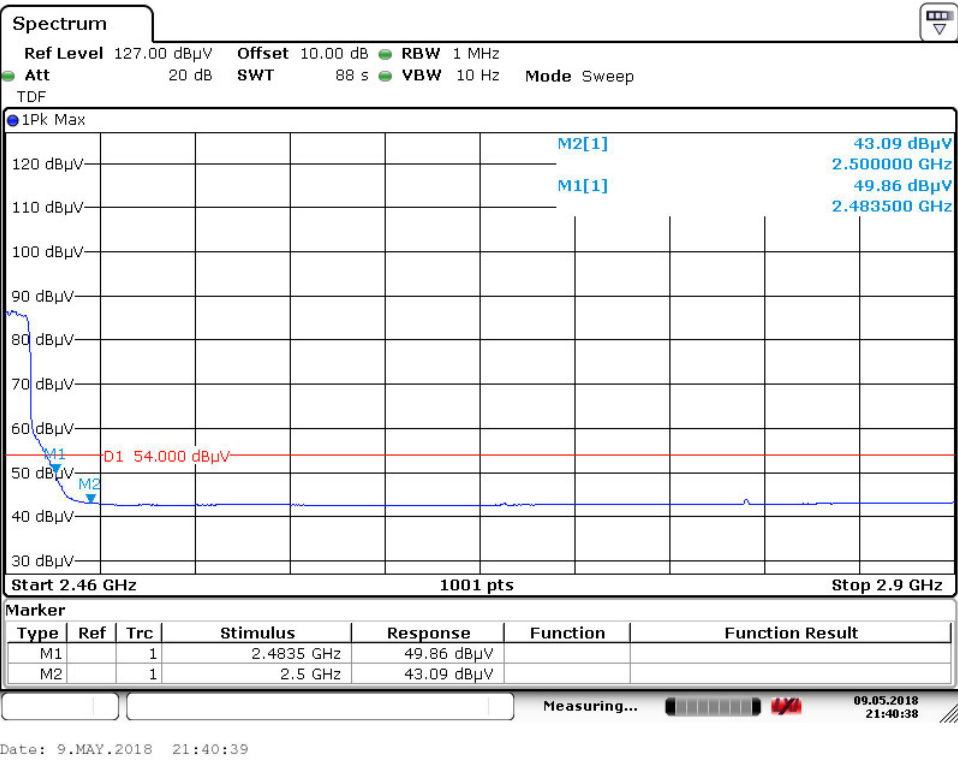
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High Channel (Hor)

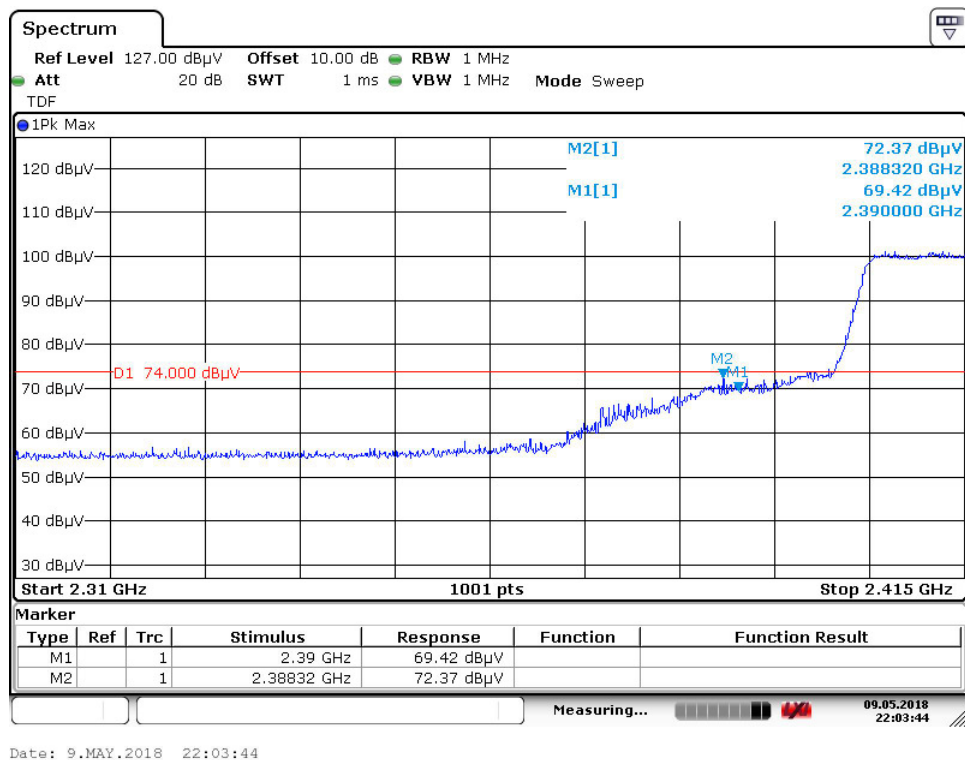
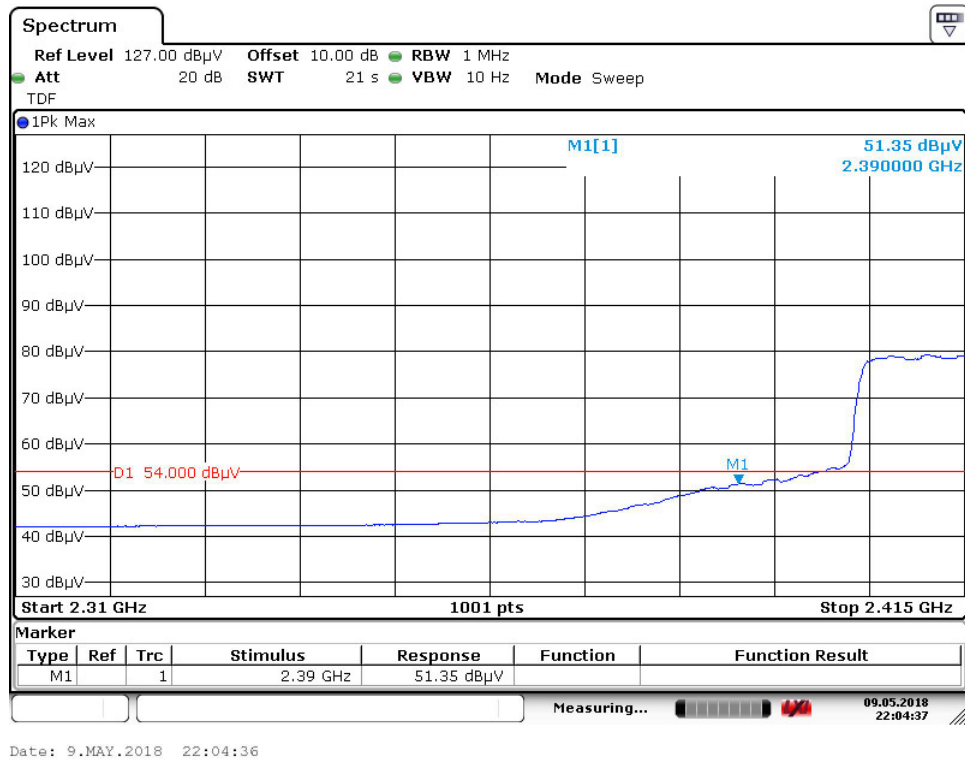


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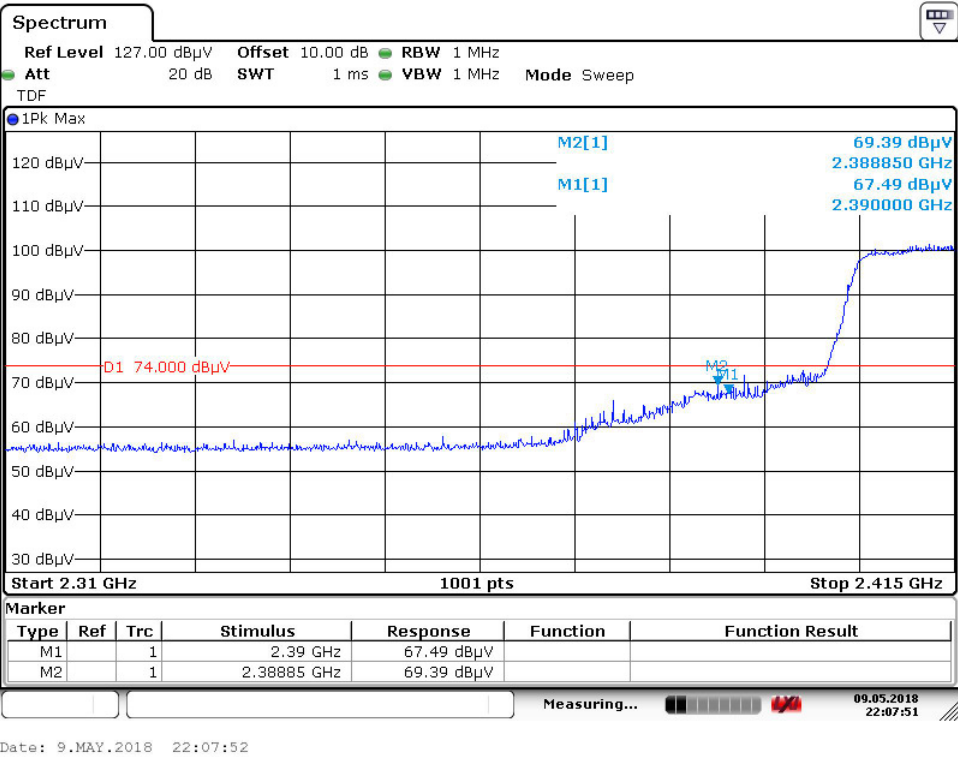
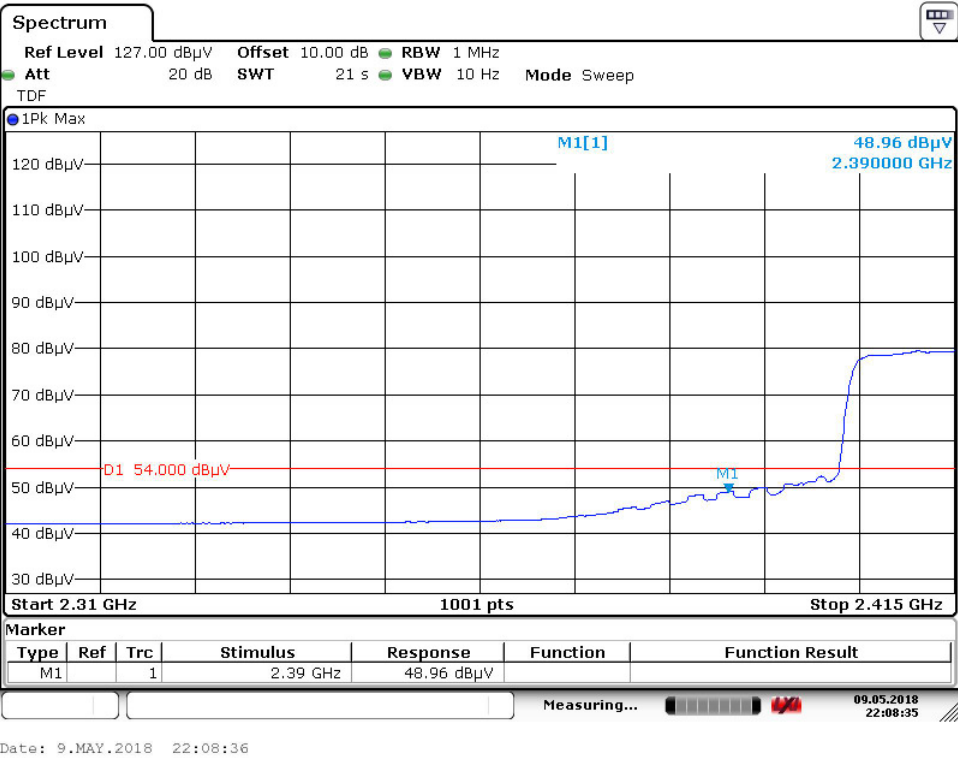


Radiated Bandedge 11n_40M

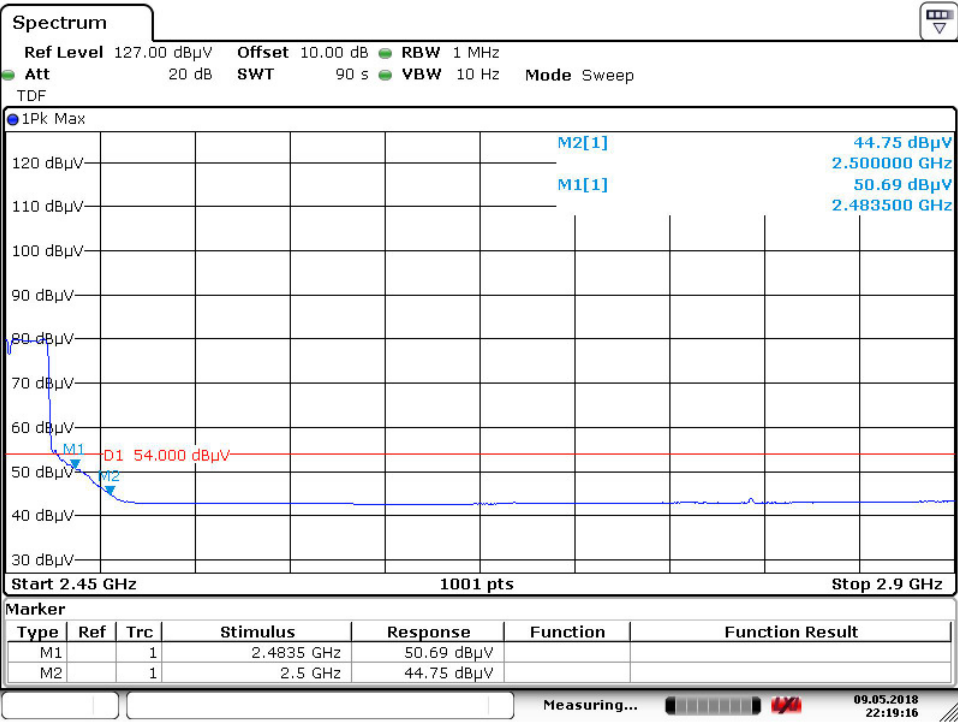
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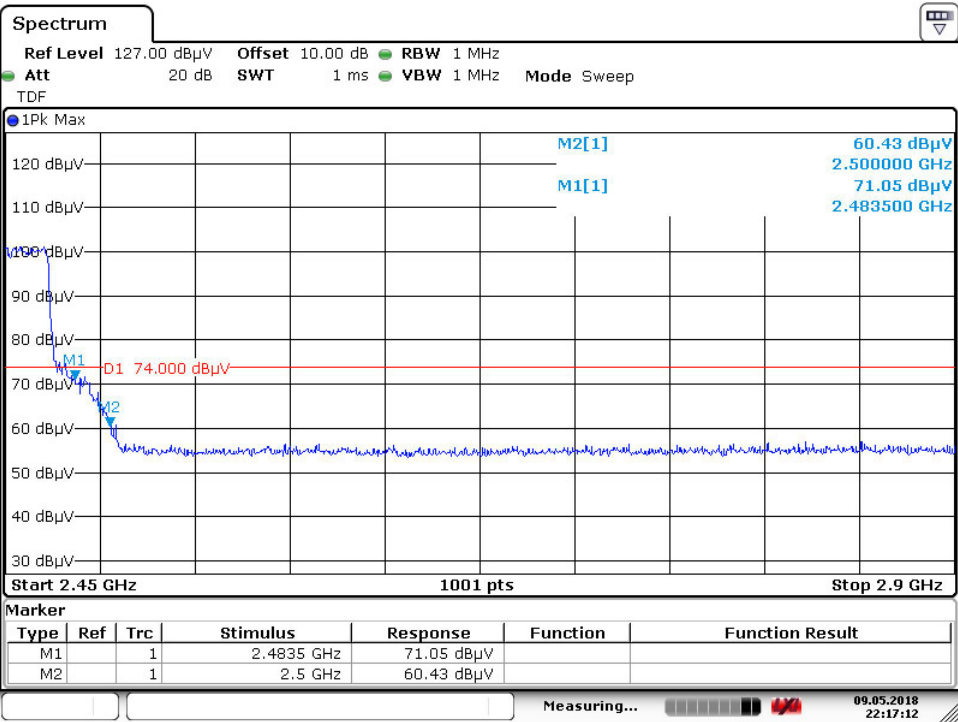
Low Channel (Ver)



High Channel (Hor)

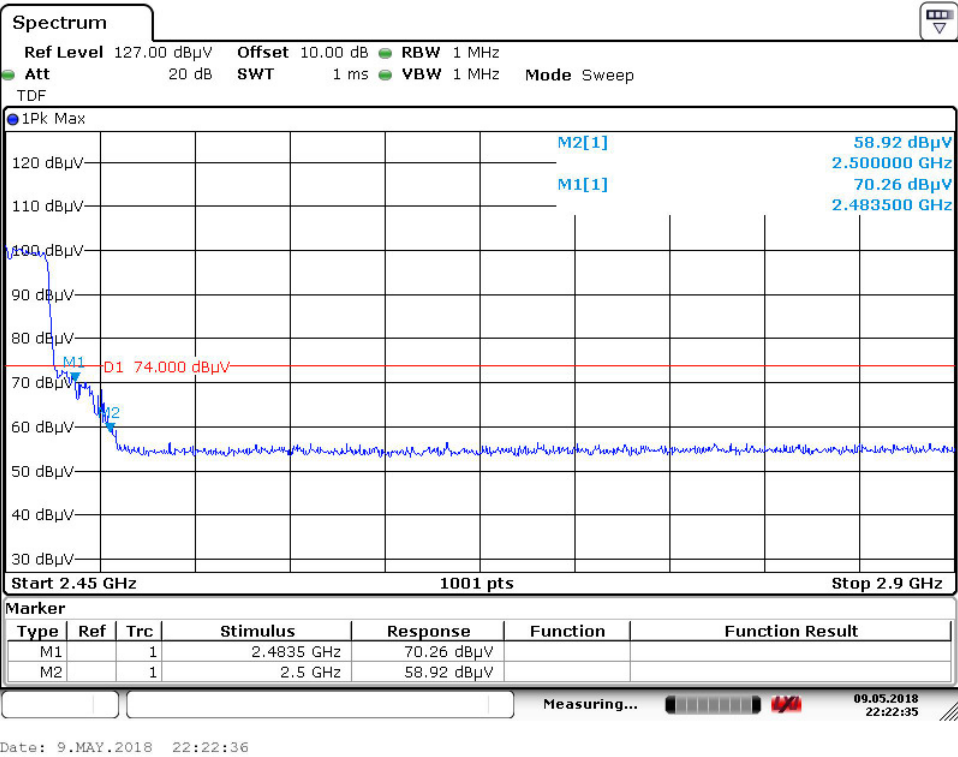
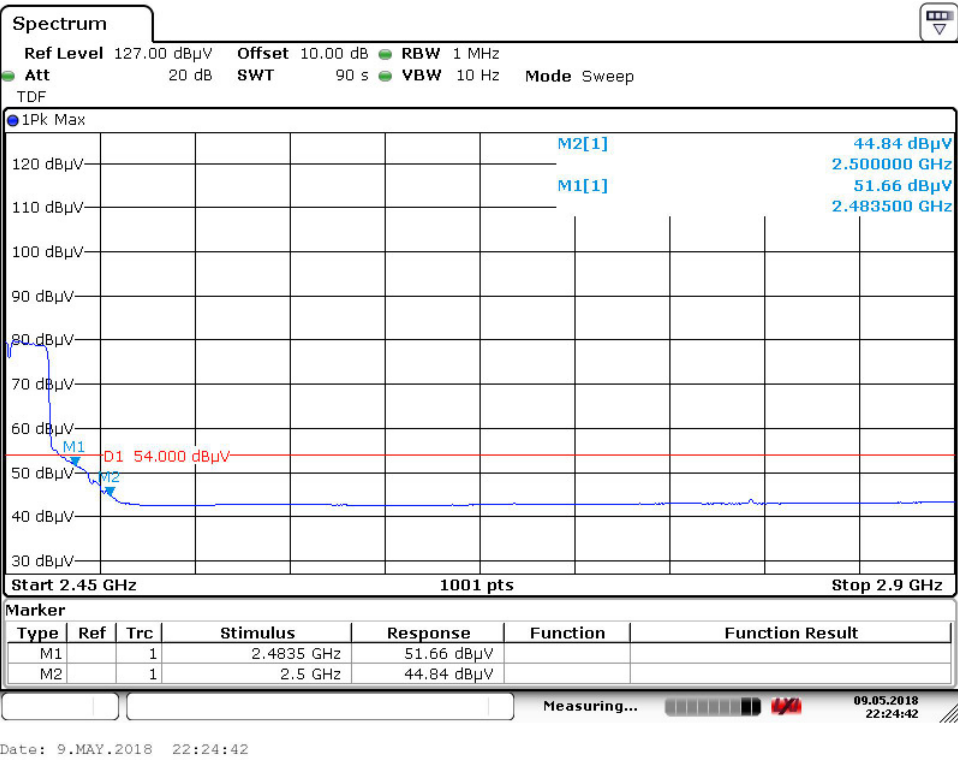


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High Channel (Ver)



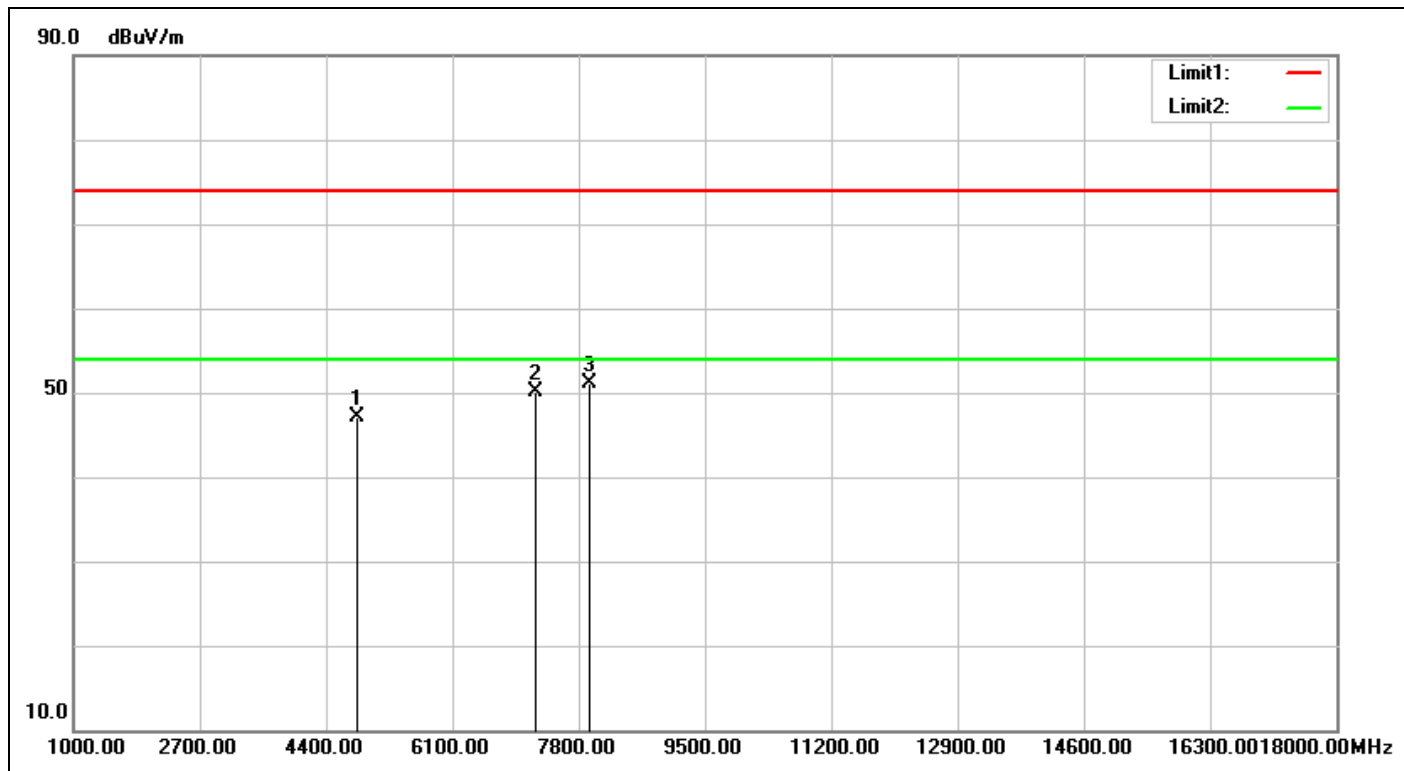
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

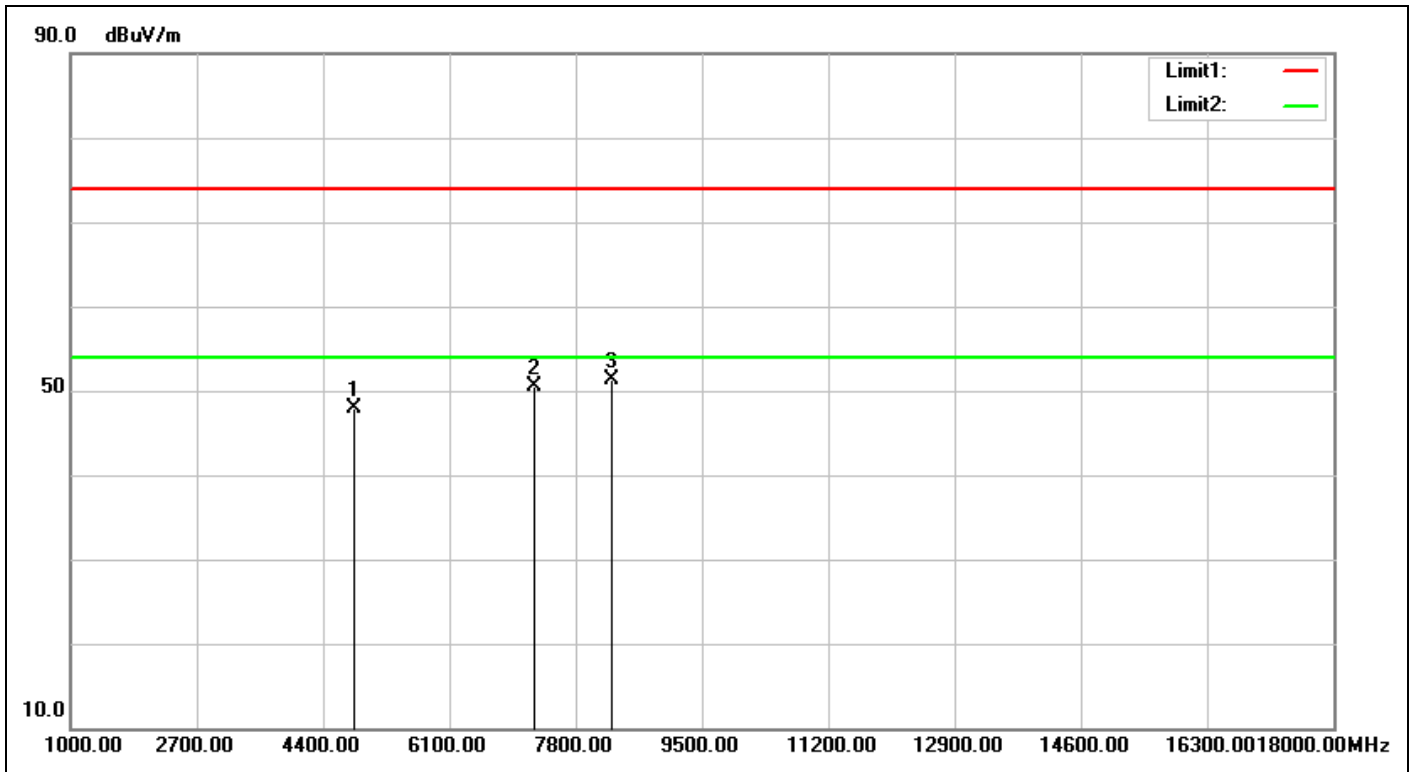
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



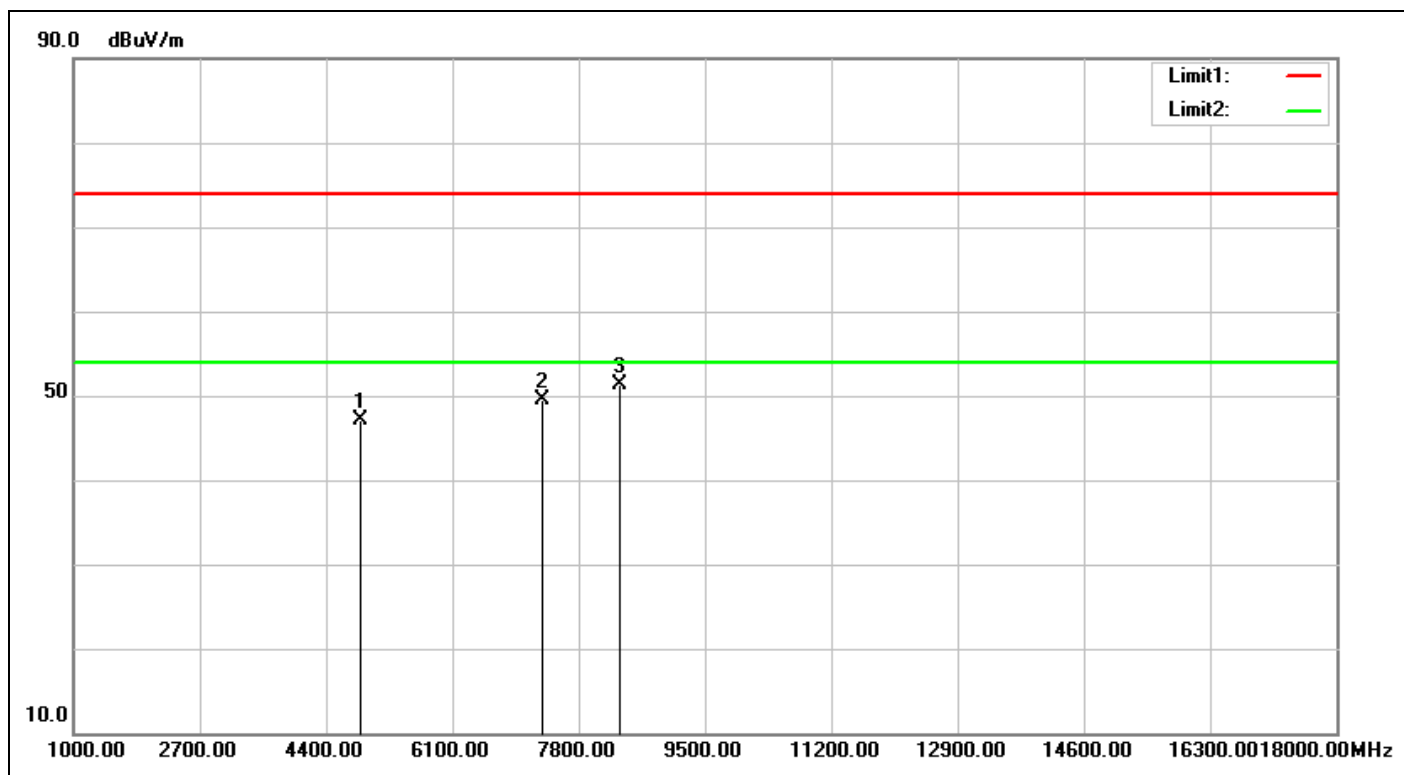
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Test item:	Radiation Emission	Test Time:	2018/5/10 15:50:03
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.66	49.76	47.10	74.00	-26.90	peak		0	
2	7236.000	5.32	44.79	50.11	74.00	-23.89	peak		0	
3	7936.000	5.84	45.32	51.16	74.00	-22.84	peak		0	



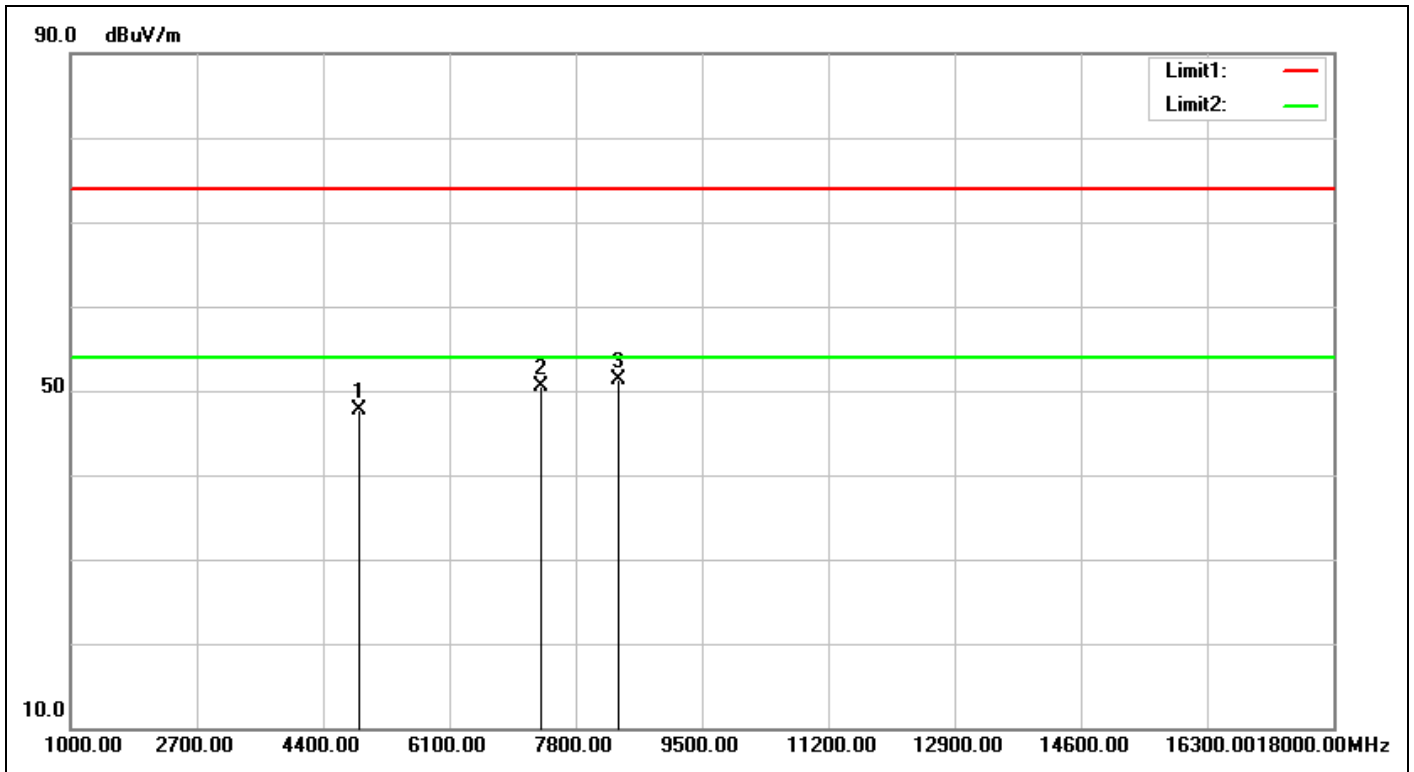
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Test item:	Radiation Emission	Test Time:	2018/5/10 15:50:56
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.66	50.59	47.93	74.00	-26.07	peak			
2	7236.000	5.32	45.24	50.56	74.00	-23.44	peak			
3	8293.000	6.15	45.18	51.33	74.00	-22.67	peak	100	244	



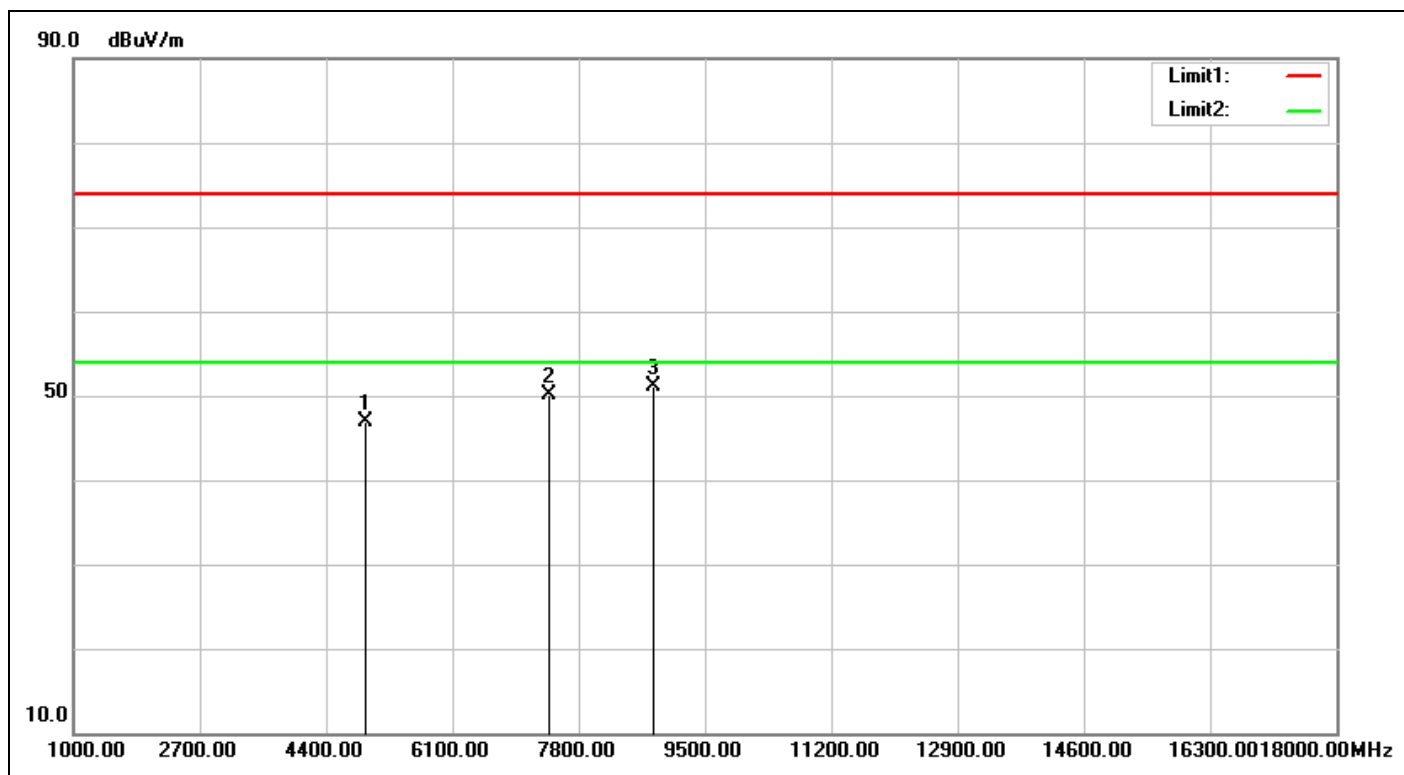
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 15:53:17
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	49.68	47.15	74.00	-26.85	peak			
2	7311.000	5.52	44.00	49.52	74.00	-24.48	peak			
3	8344.000	6.21	45.13	51.34	74.00	-22.66	peak	100	307	



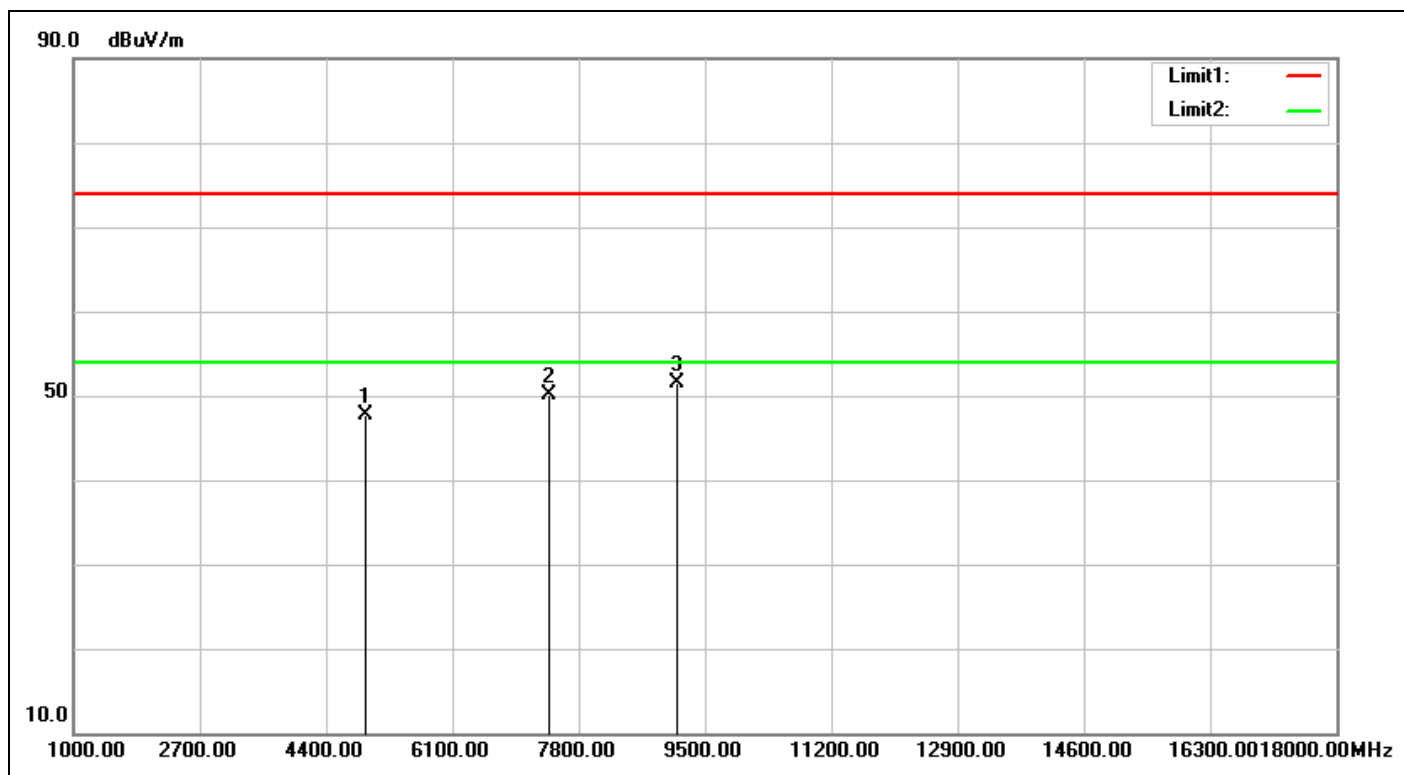
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 15:54:10
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	50.30	47.77	74.00	-26.23	peak			
2	7311.000	5.52	44.92	50.44	74.00	-23.56	peak			
3	8378.000	6.24	45.12	51.36	74.00	-22.64	peak	100	74	



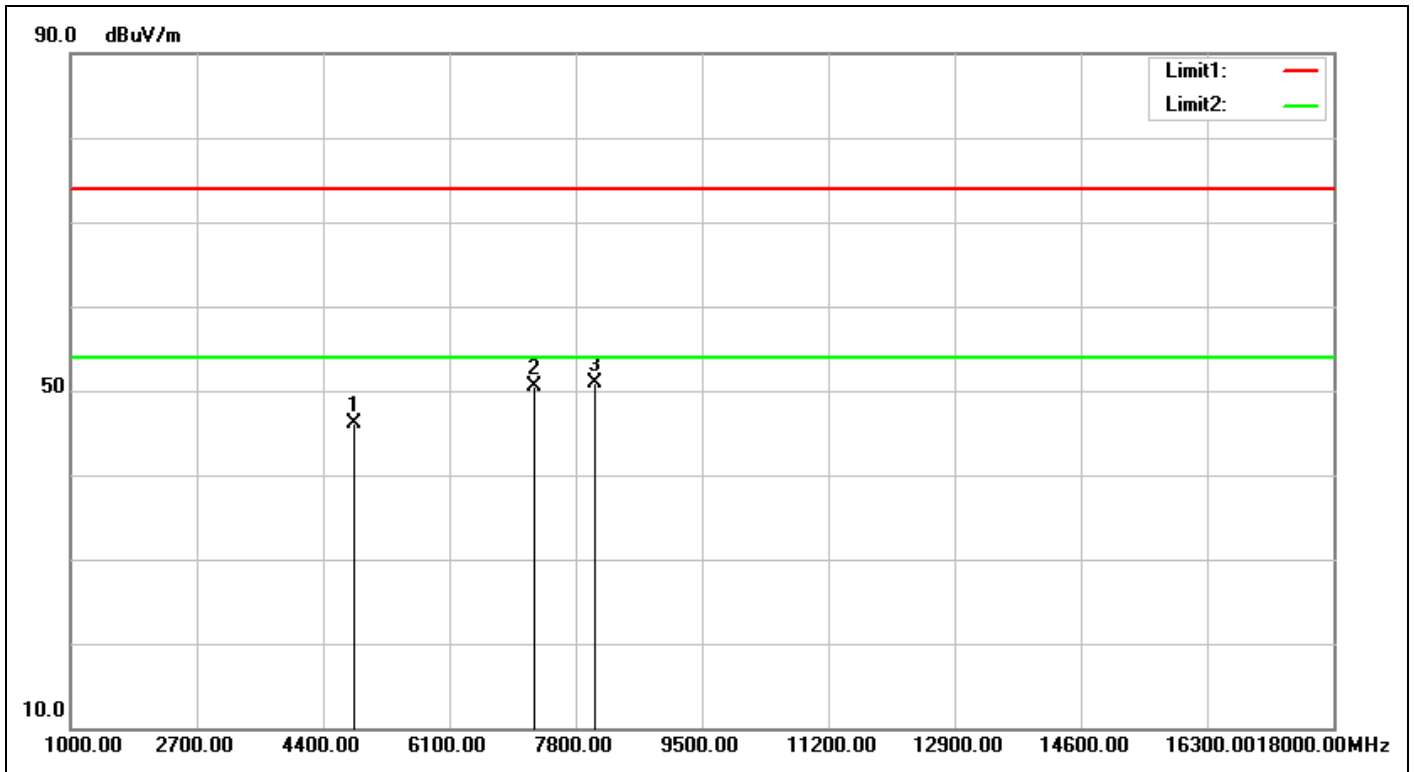
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 15:56:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.39	49.36	46.97	74.00	-27.03	peak			
2	7386.000	5.70	44.50	50.20	74.00	-23.80	peak			
3	8803.000	6.42	44.72	51.14	74.00	-22.86	peak	100	71	



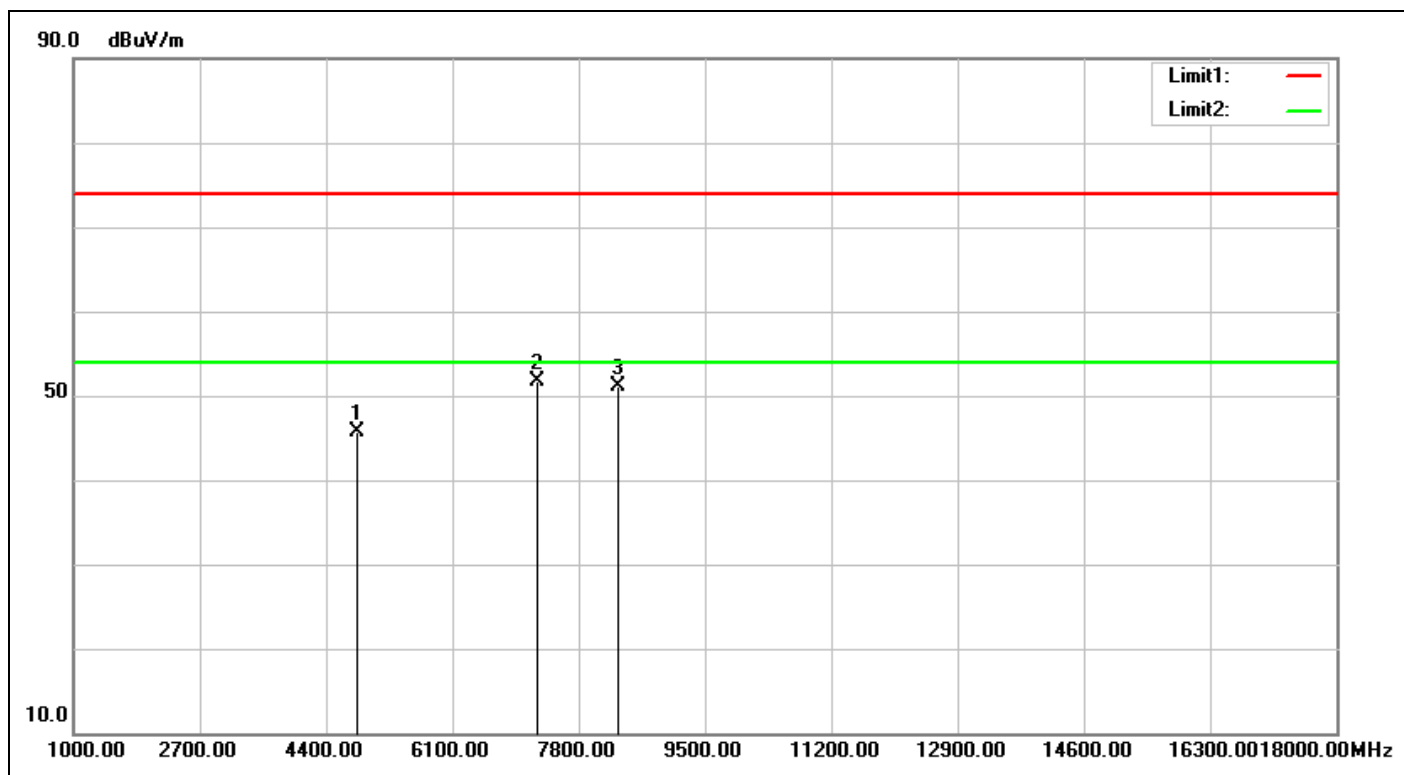
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
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Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.39	50.03	47.64	74.00	-26.36	peak			
2	7386.000	5.70	44.47	50.17	74.00	-23.83	peak			
3	9126.000	6.47	45.12	51.59	74.00	-22.41	peak	100	278	



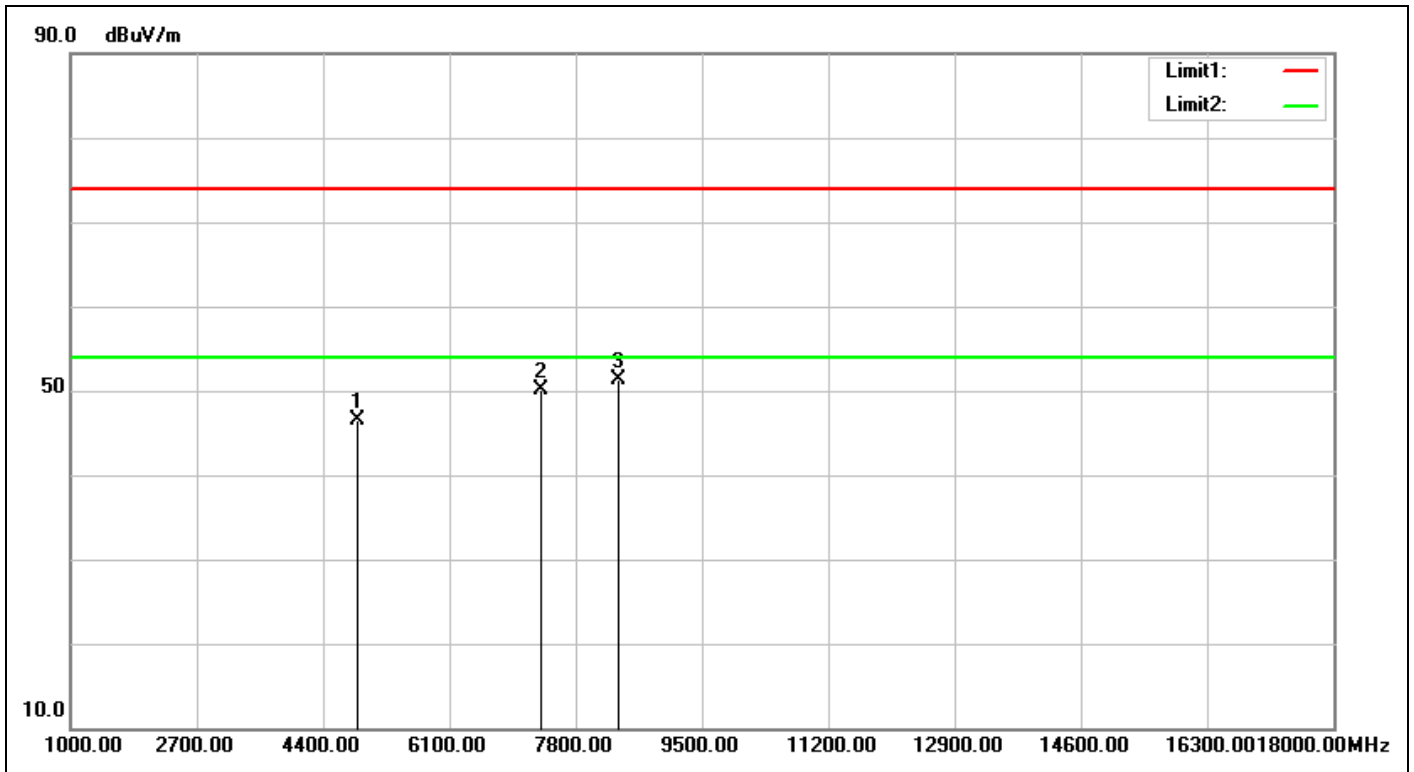
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:01:02
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1C		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.66	48.75	46.09	74.00	-27.91	peak			
2	7236.000	5.32	45.27	50.59	74.00	-23.41	peak			
3	8055.000	5.89	45.06	50.95	74.00	-23.05	peak	100	266	



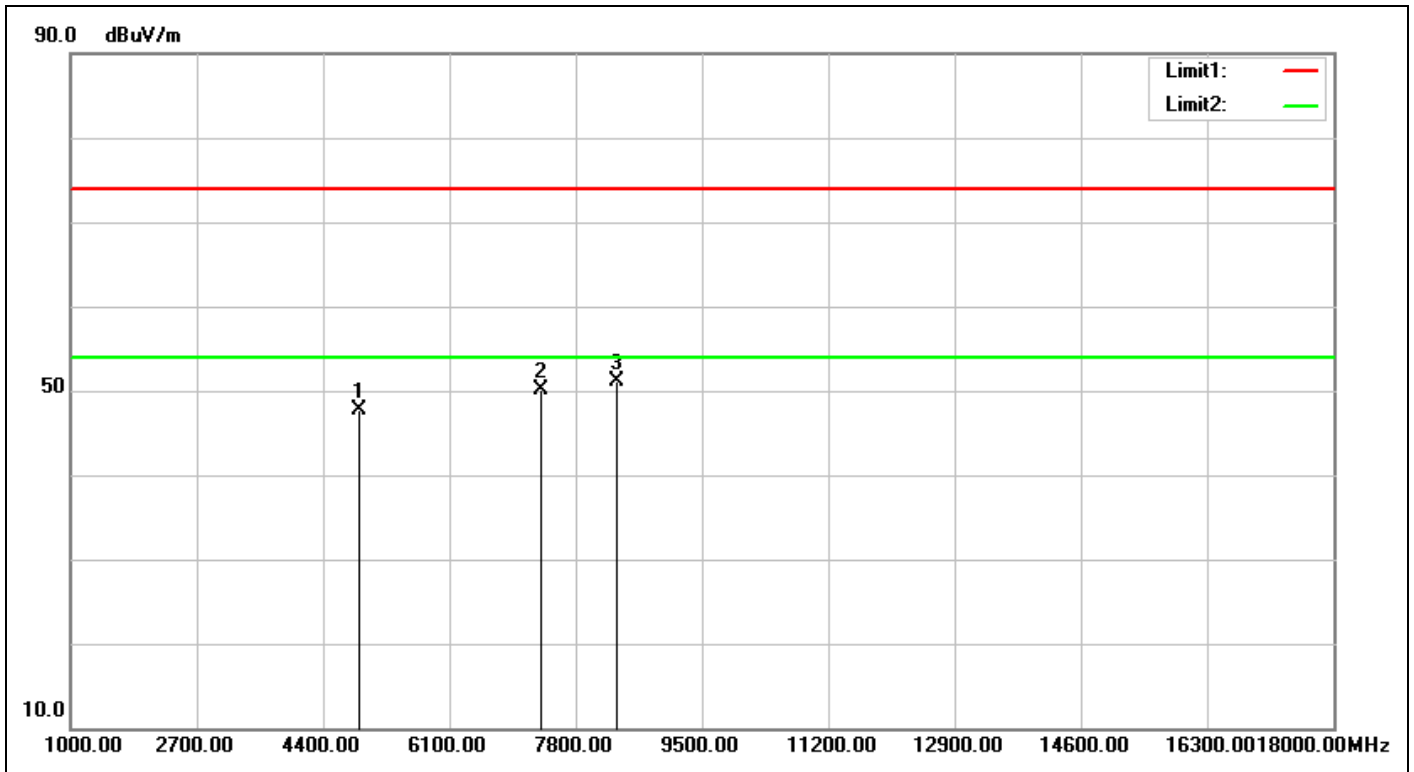
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:01:55
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1C		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.66	48.37	45.71	74.00	-28.29	peak			
2	7236.000	5.32	46.31	51.63	74.00	-22.37	peak			
3	8327.000	6.18	45.01	51.19	74.00	-22.81	peak	100	15	



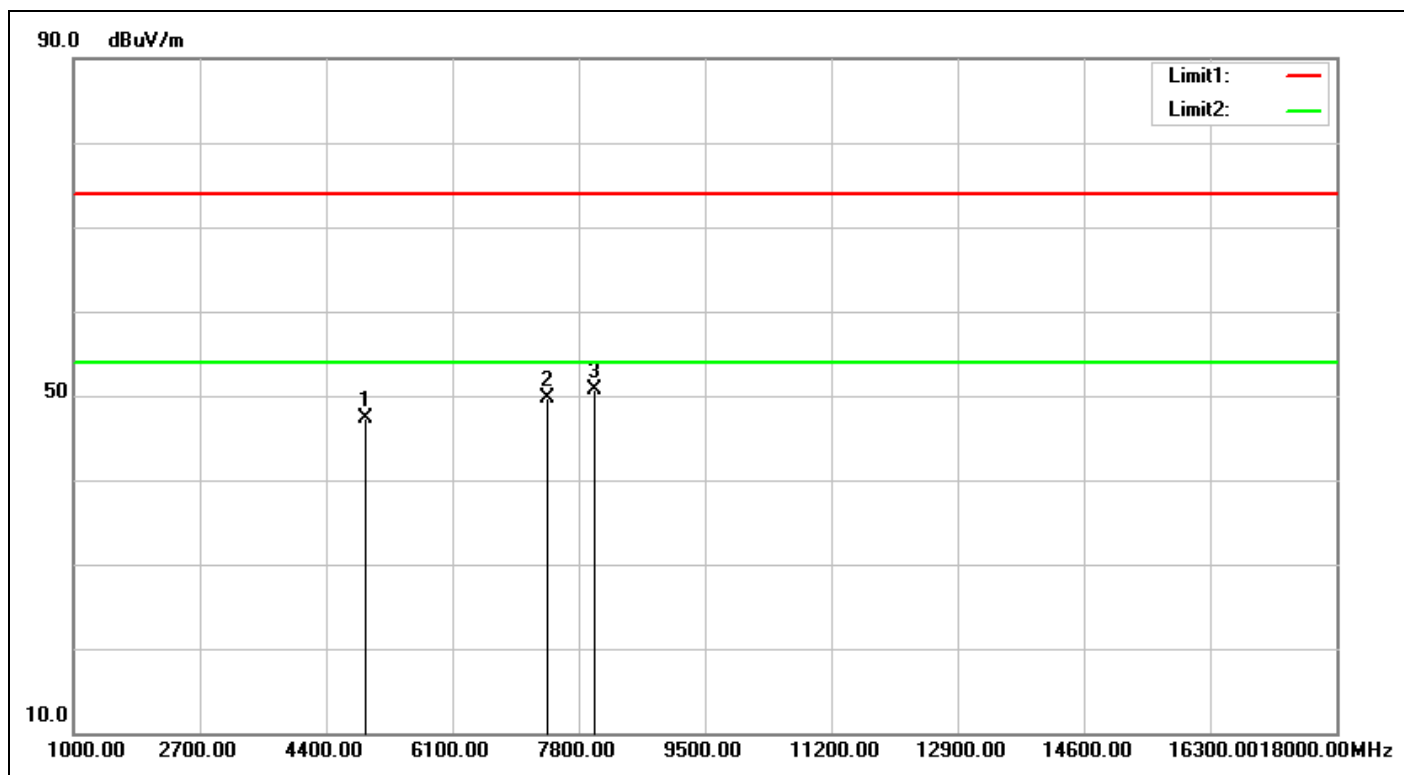
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:03:59
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	48.96	46.43	74.00	-27.57	peak			
2	7311.000	5.52	44.68	50.20	74.00	-23.80	peak			
3	8378.000	6.24	45.03	51.27	74.00	-22.73	peak	100	352	



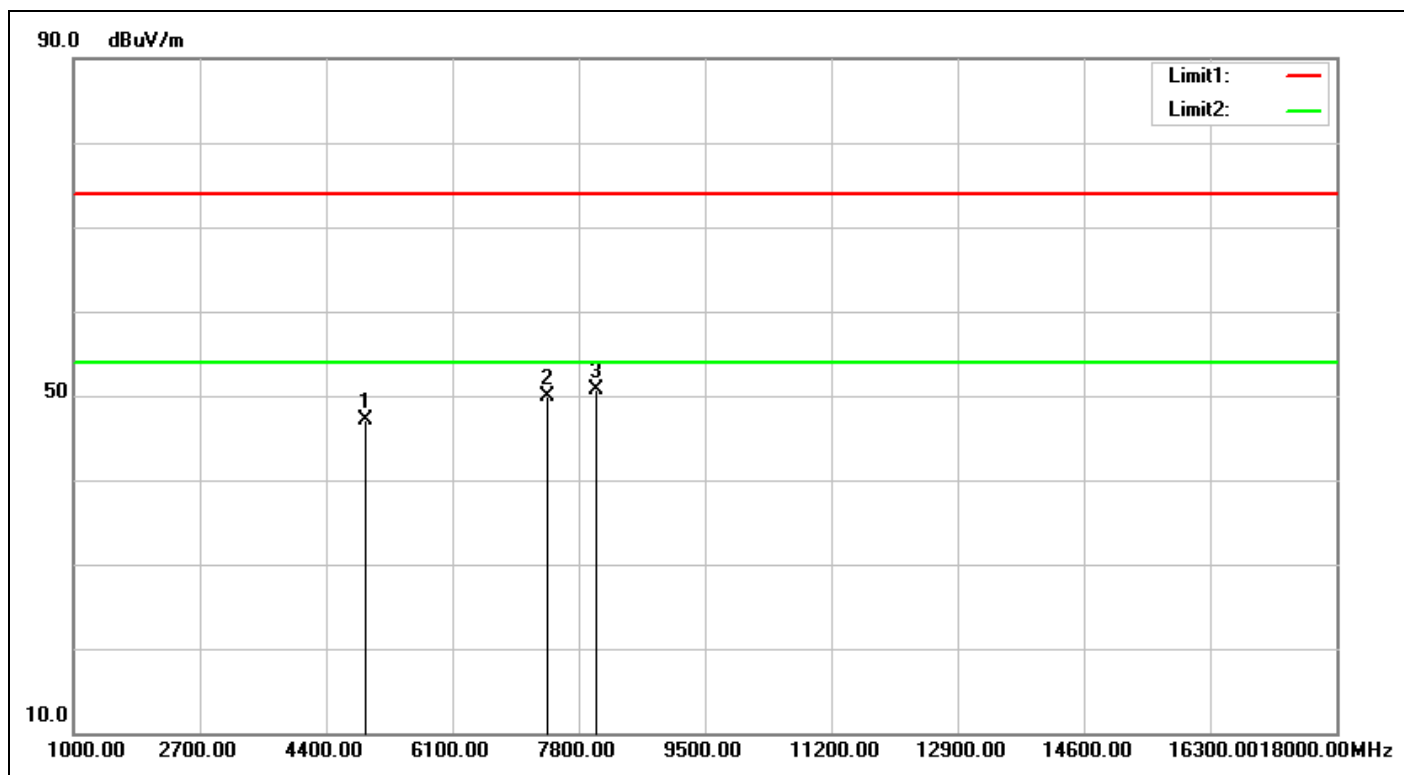
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:04:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	50.15	47.62	74.00	-26.38	peak			
2	7311.000	5.52	44.65	50.17	74.00	-23.83	peak			
3	8344.000	6.21	44.97	51.18	74.00	-22.82	peak	100	275	



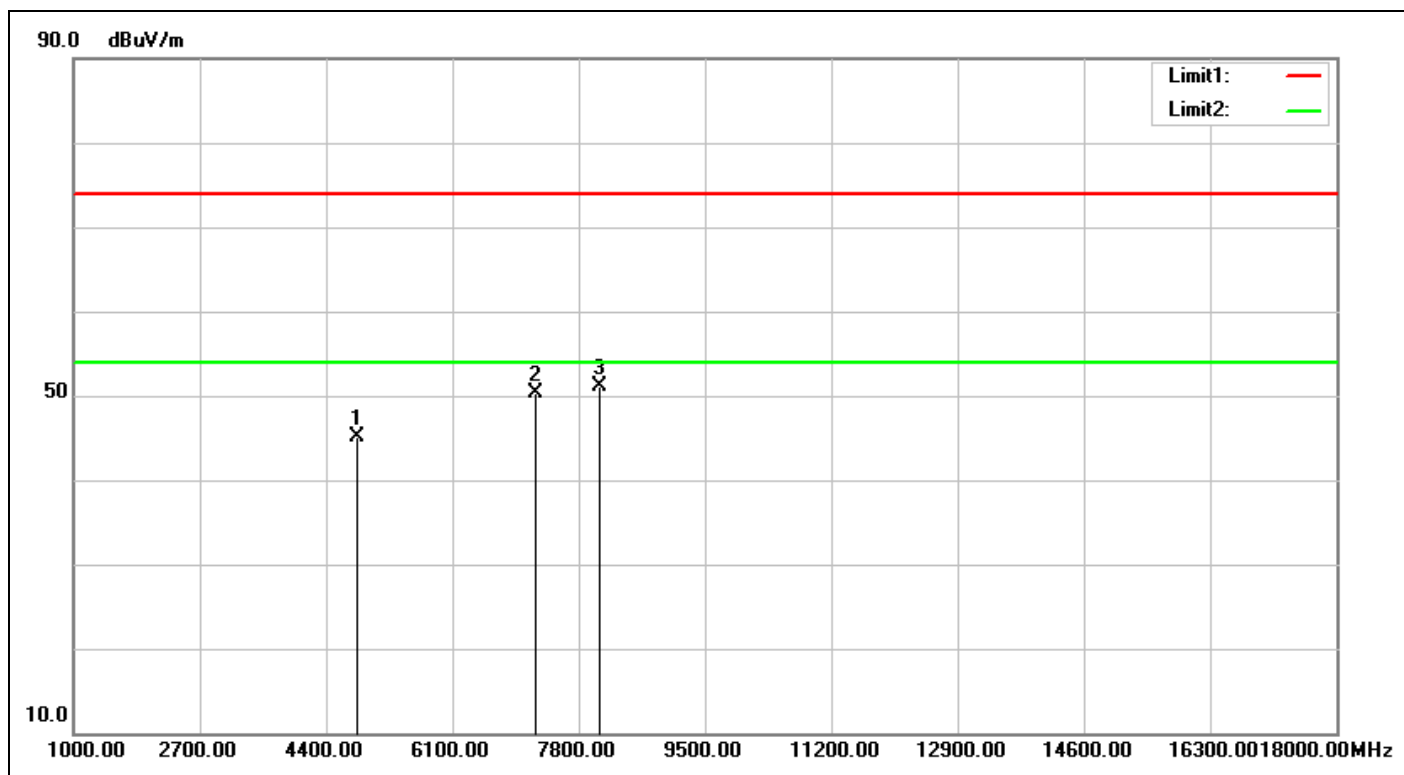
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:07:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.39	49.67	47.28	74.00	-26.72	peak			
2	7386.000	5.70	44.06	49.76	74.00	-24.24	peak			
3	8021.000	5.85	44.85	50.70	74.00	-23.30	peak	100	1	



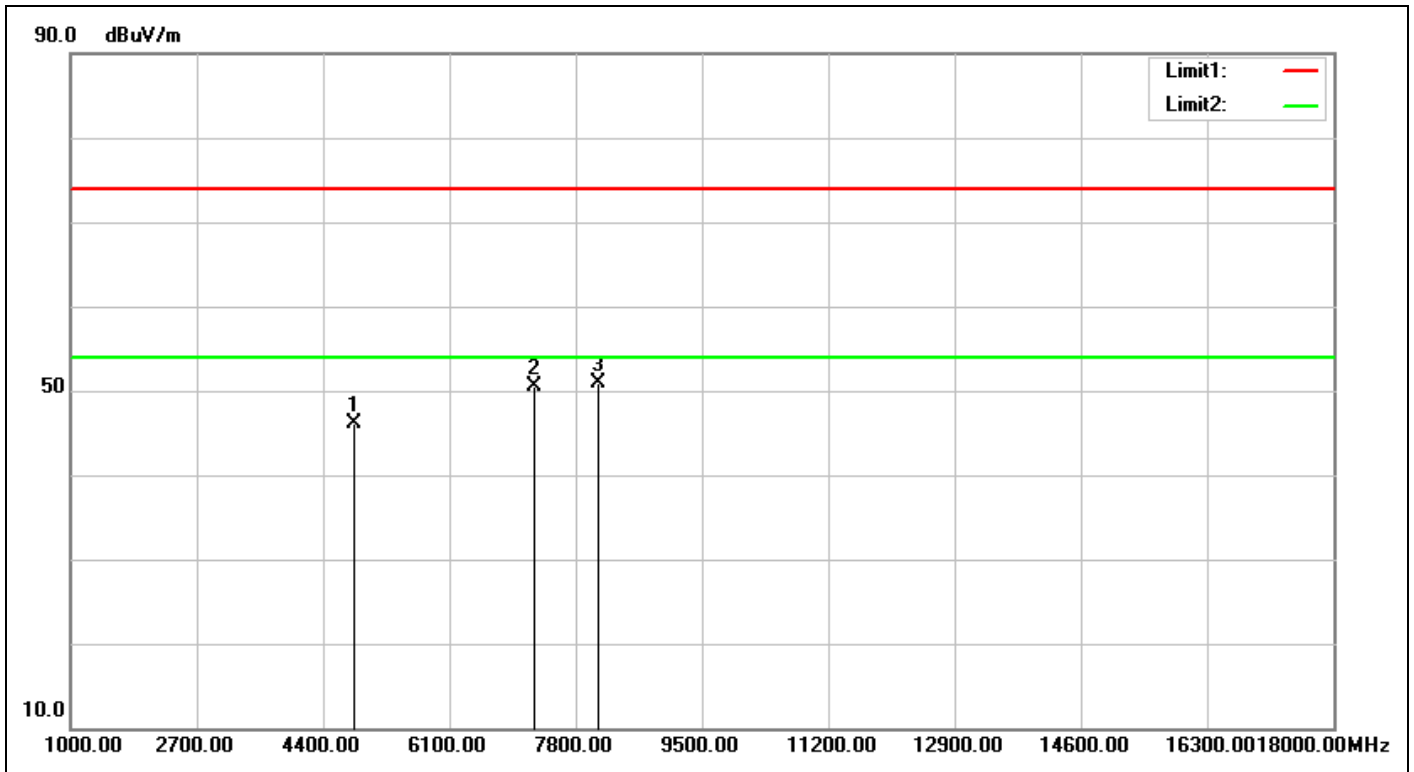
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:07:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.39	49.46	47.07	74.00	-26.93	peak			
2	7386.000	5.70	44.11	49.81	74.00	-24.19	peak			
3	8038.000	5.86	44.75	50.61	74.00	-23.39	peak	100	193	



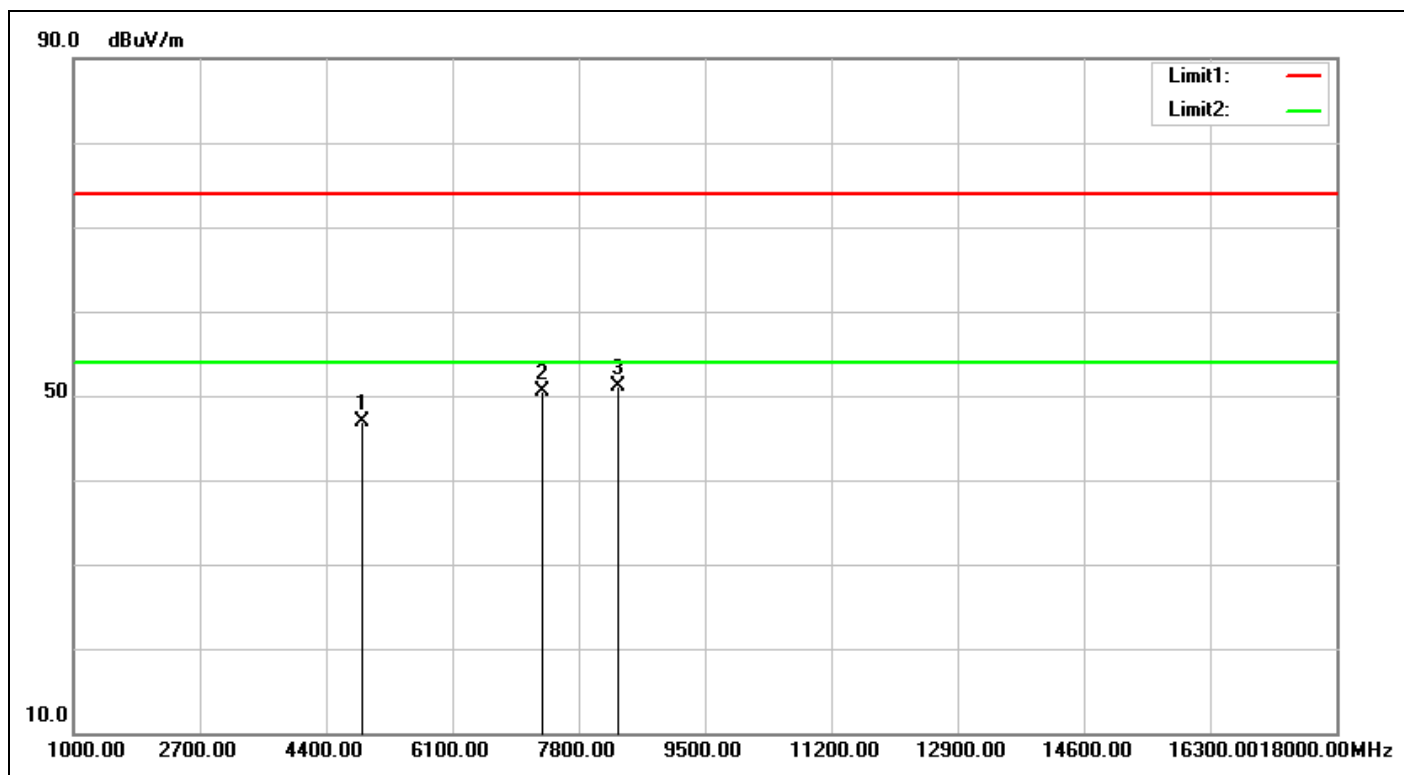
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:10:01
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.66	47.80	45.14	74.00	-28.86	peak			
2	7236.000	5.32	45.03	50.35	74.00	-23.65	peak			
3	8072.000	5.90	45.22	51.12	74.00	-22.88	peak	100	325	



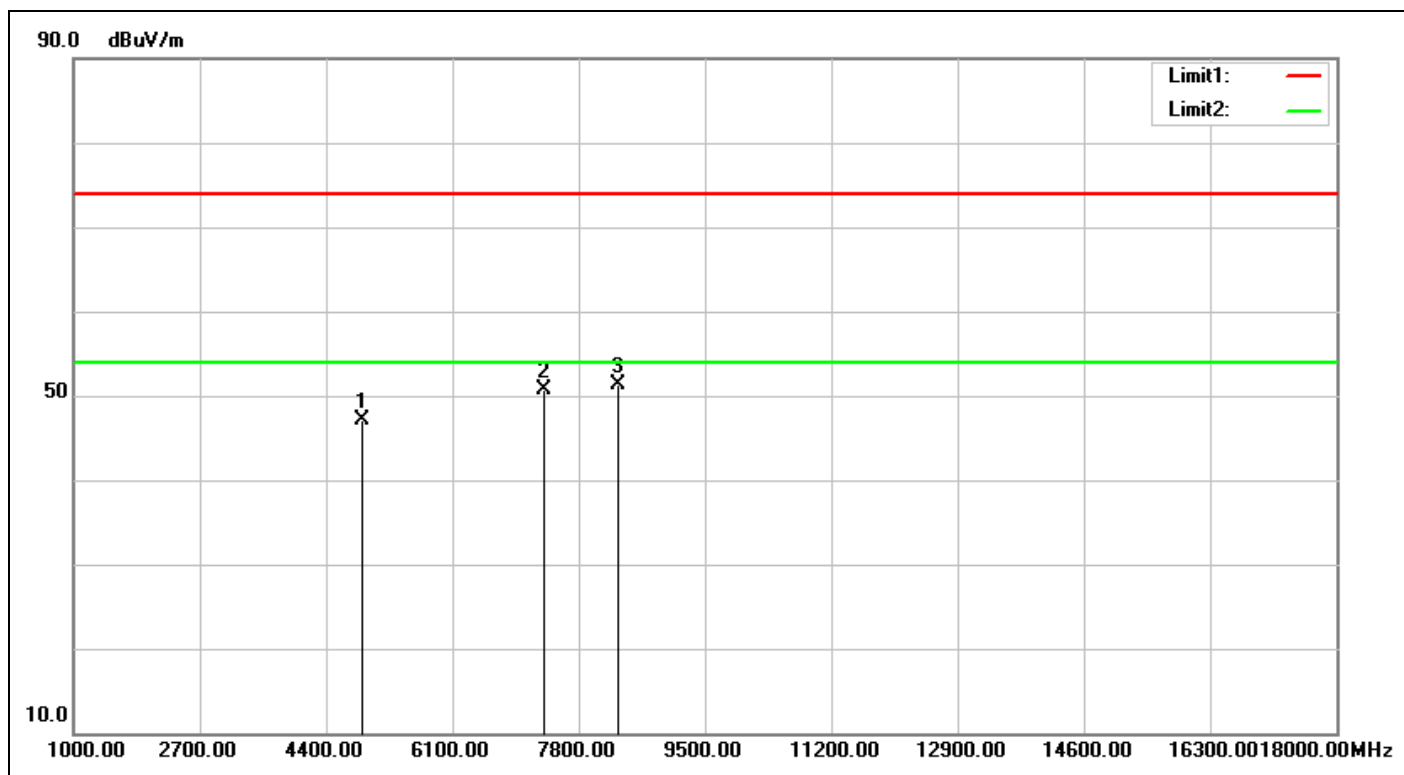
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:10:53
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%) :	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.66	48.85	46.19	74.00	-27.81	peak			
2	7236.000	5.32	45.22	50.54	74.00	-23.46	peak			
3	8106.000	5.94	45.00	50.94	74.00	-23.06	peak	100	254	



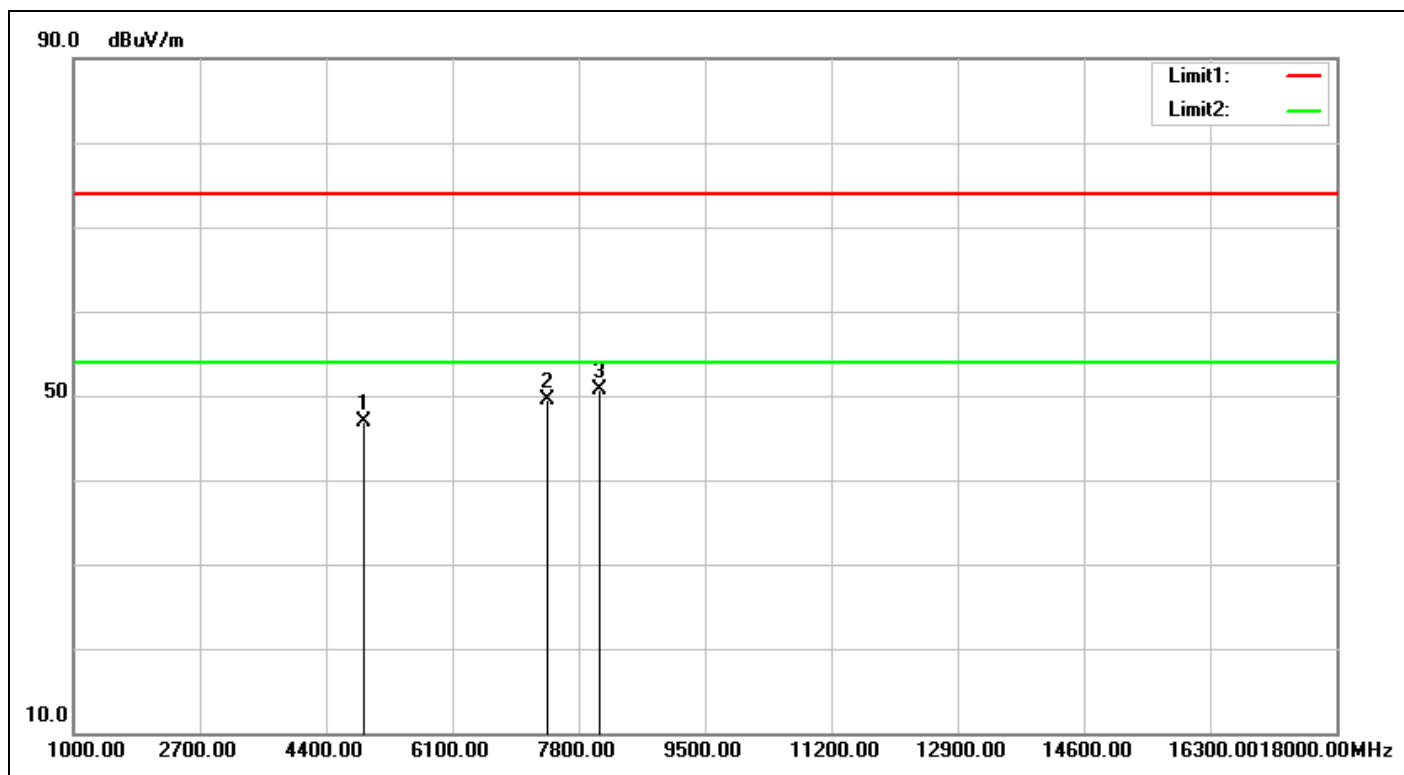
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:13:38
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 17 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	49.53	47.00	74.00	-27.00	peak			
2	7311.000	5.52	44.98	50.50	74.00	-23.50	peak			
3	8327.000	6.18	45.00	51.18	74.00	-22.82	peak	100	236	



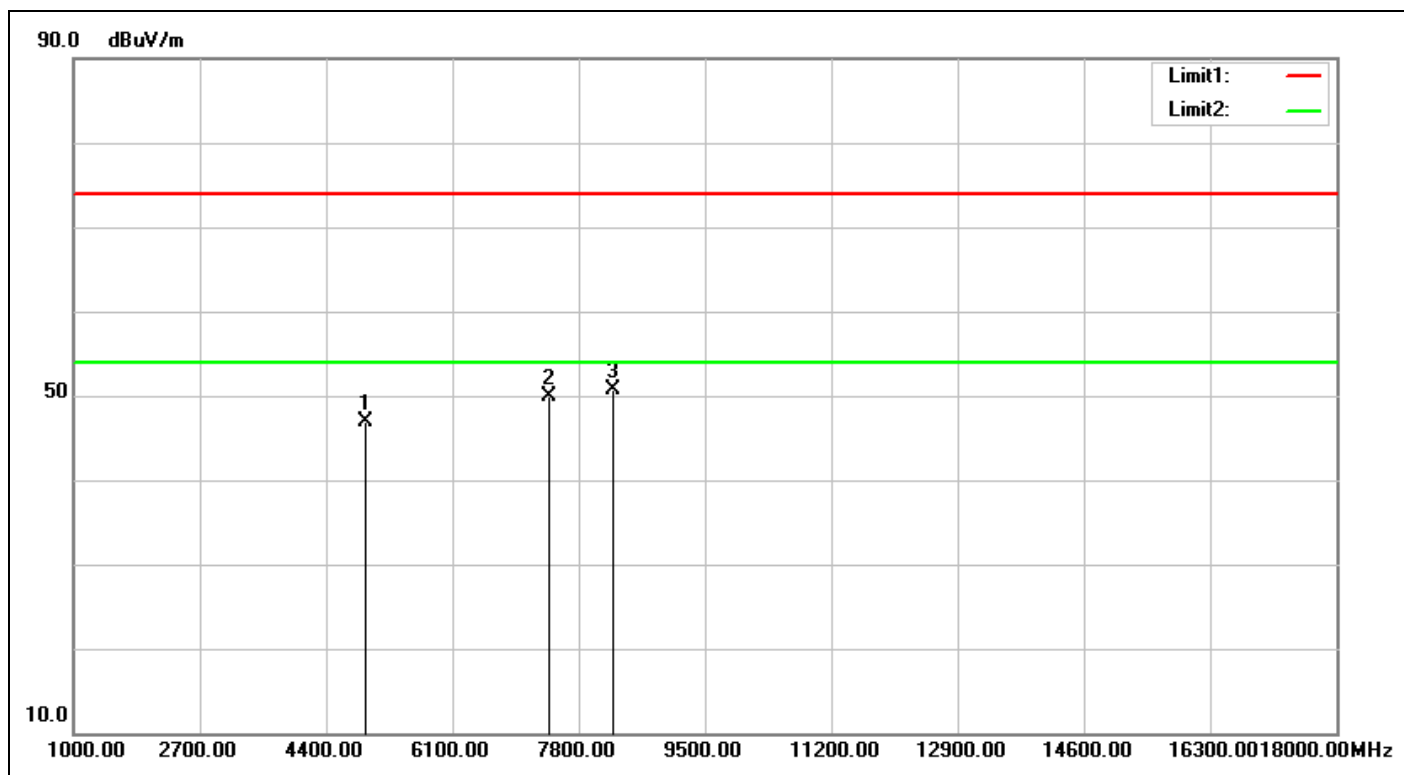
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:14:31
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 17 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	49.73	47.20	74.00	-26.80	peak			
2	7311.000	5.52	45.26	50.78	74.00	-23.22	peak			
3	8327.000	6.18	45.16	51.34	74.00	-22.66	peak	100	360	



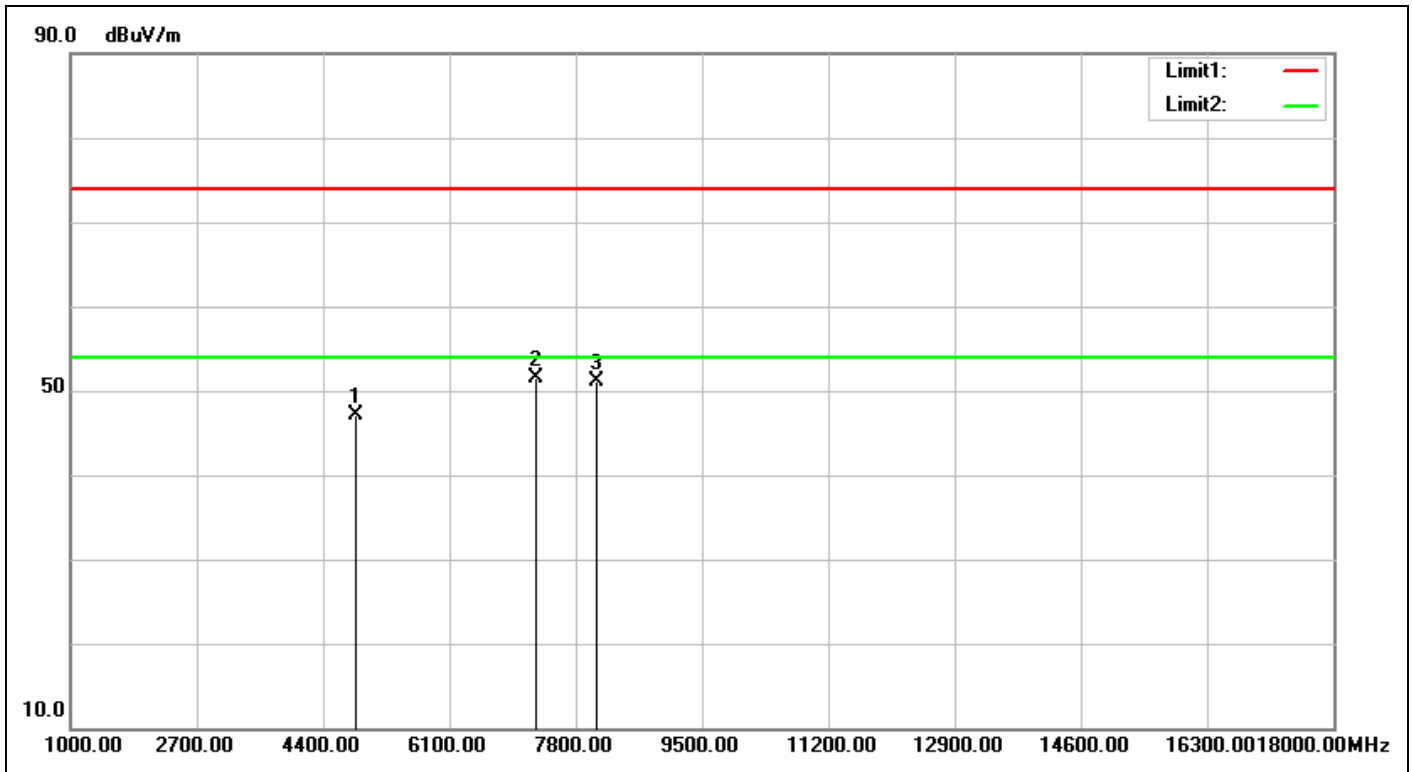
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:20:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 16 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.39	49.26	46.87	74.00	-27.13	peak			
2	7386.000	5.70	43.80	49.50	74.00	-24.50	peak			
3	8089.000	5.91	44.71	50.62	74.00	-23.38	peak	100	71	



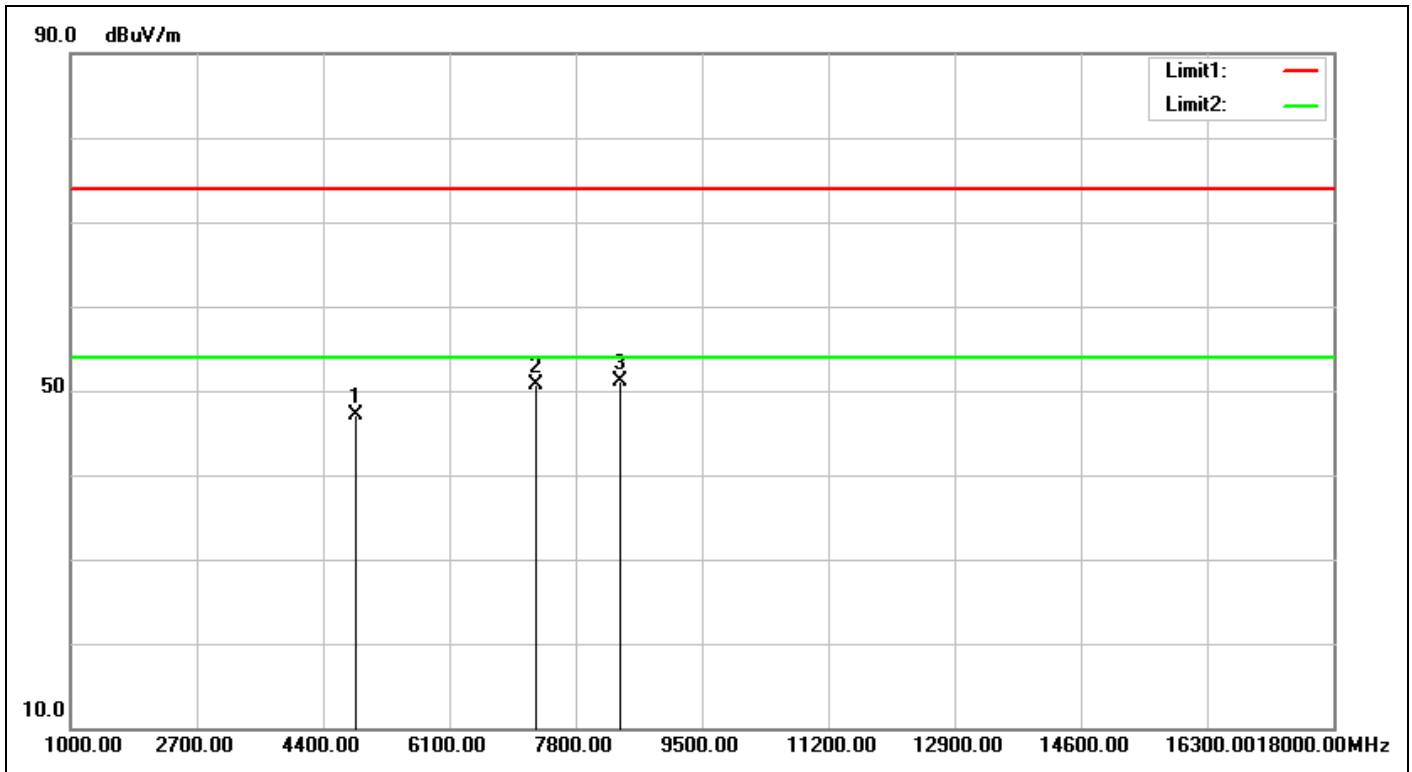
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:21:44
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 16 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4924.000	-2.39	49.23	46.84	74.00	-27.16	peak			
2	7386.000	5.70	44.26	49.96	74.00	-24.04	peak			
3	8259.000	6.11	44.58	50.69	74.00	-23.31	peak	100	322	



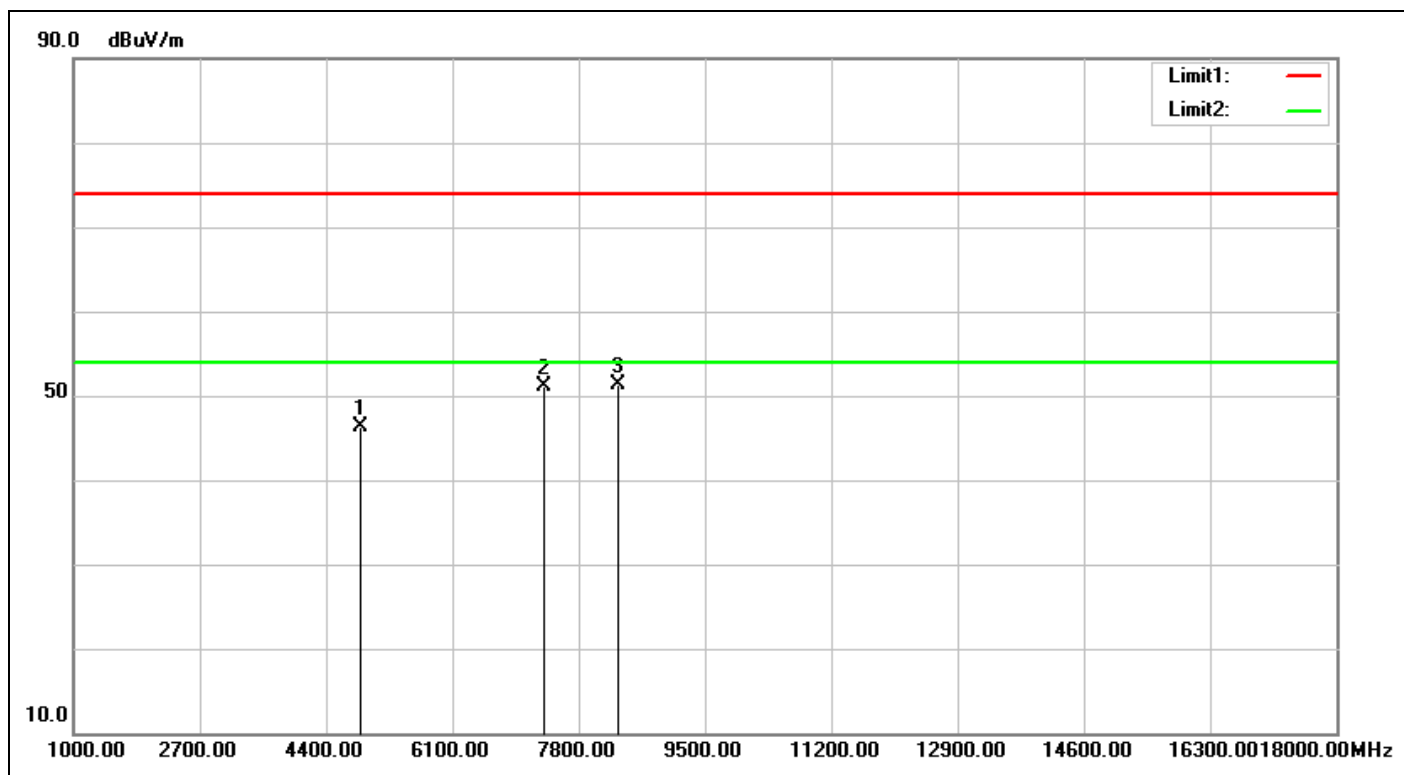
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:24:02
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	Power Setting 12 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4844.000	-2.61	49.77	47.16	74.00	-26.84	peak			
2	7266.000	5.40	46.05	51.45	74.00	-22.55	peak			
3	8089.000	5.91	45.11	51.02	74.00	-22.98	peak	100	134	



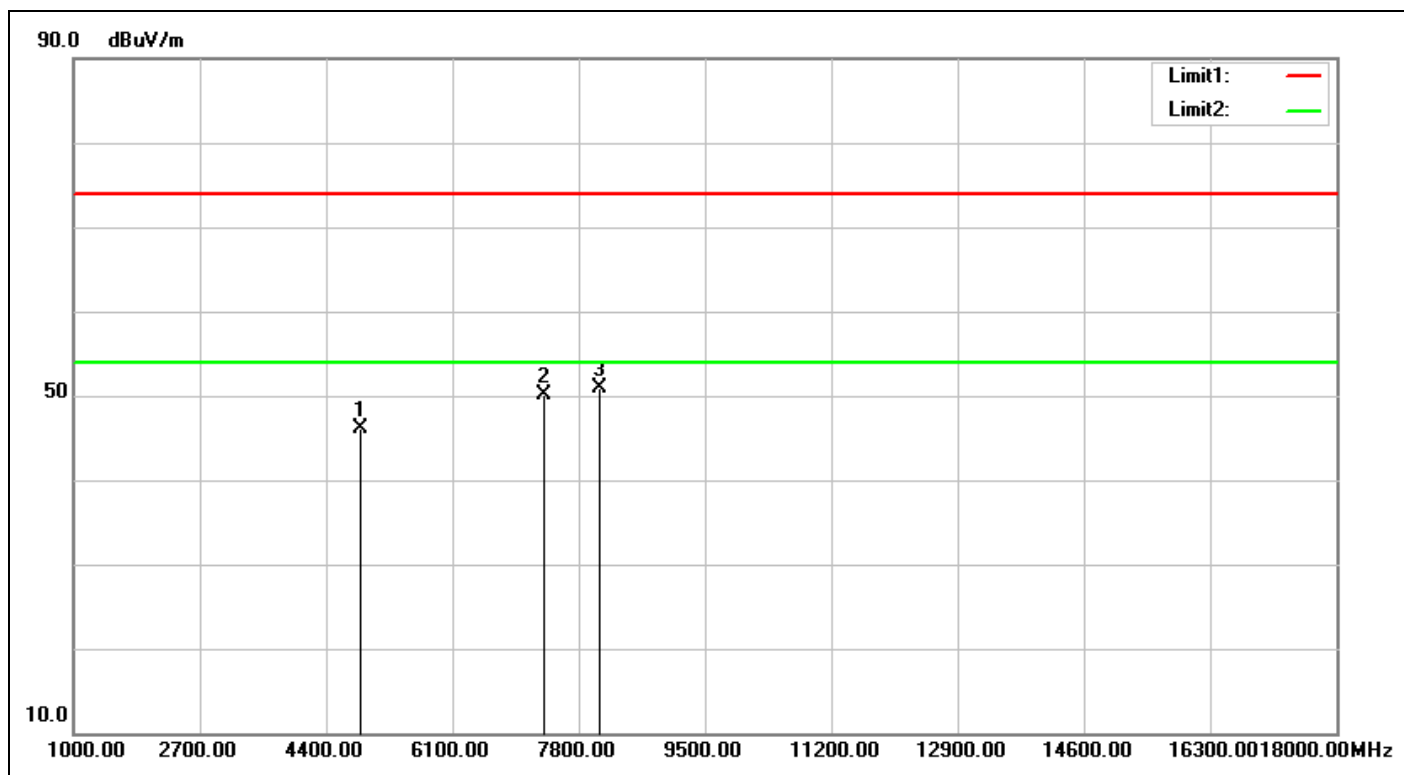
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:24:54
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	Power Setting 12 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4844.000	-2.61	49.71	47.10	74.00	-26.90	peak			
2	7266.000	5.40	45.39	50.79	74.00	-23.21	peak			
3	8395.000	6.26	44.82	51.08	74.00	-22.92	peak	100	0	



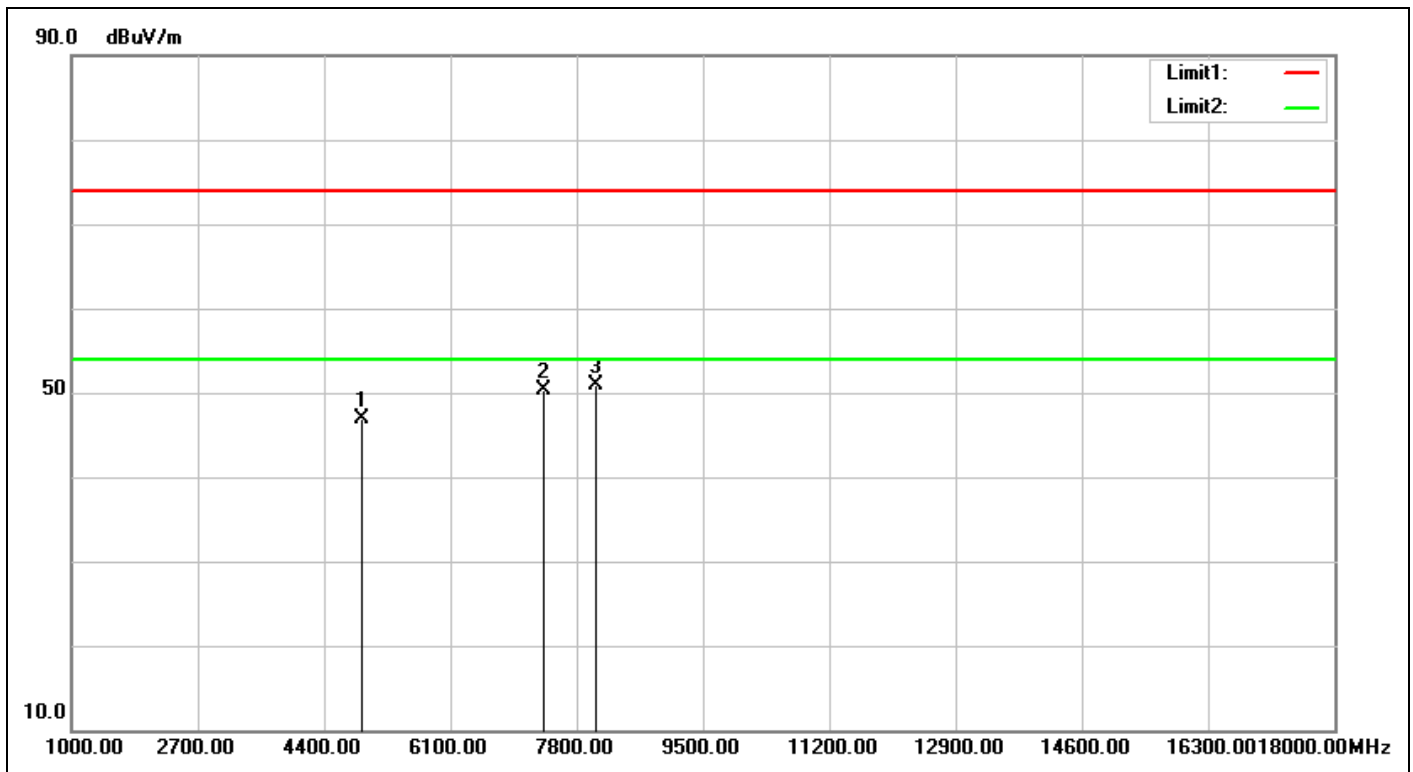
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:27:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	48.90	46.37	74.00	-27.63	peak			
2	7311.000	5.52	45.57	51.09	74.00	-22.91	peak			
3	8327.000	6.18	45.16	51.34	74.00	-22.66	peak	100	13	



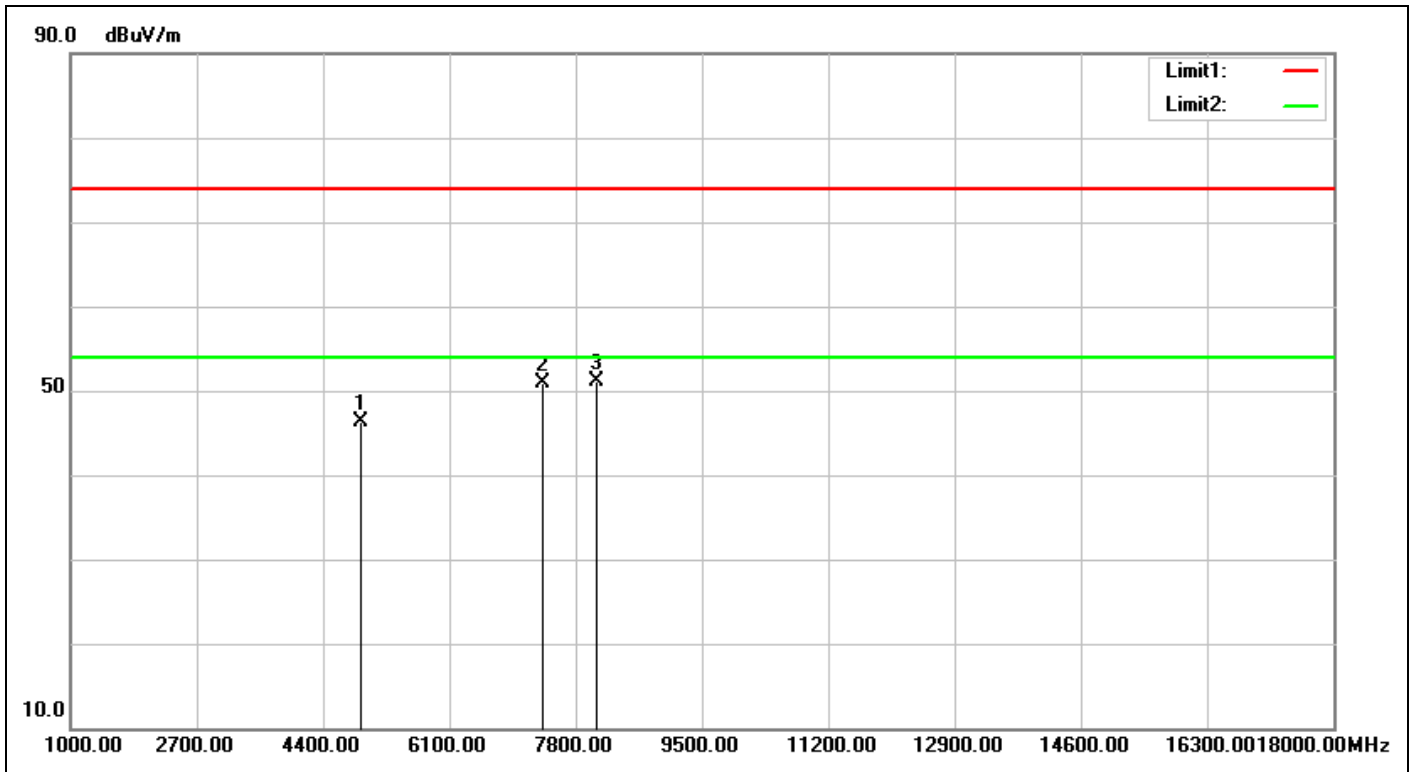
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:27:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.53	48.73	46.20	74.00	-27.80	peak			
2	7311.000	5.52	44.54	50.06	74.00	-23.94	peak			
3	8072.000	5.90	44.97	50.87	74.00	-23.13	peak	100	268	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:29:46
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 13 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4904.000	-2.44	49.44	47.00	74.00	-27.00	peak			
2	7356.000	5.63	44.76	50.39	74.00	-23.61	peak			
3	8055.000	5.89	44.98	50.87	74.00	-23.13	peak	100	146	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:30:38
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 13 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4904.000	-2.44	48.67	46.23	74.00	-27.77	peak			
2	7356.000	5.63	45.32	50.95	74.00	-23.05	peak			
3	8072.000	5.90	45.27	51.17	74.00	-22.83	peak	100	231	

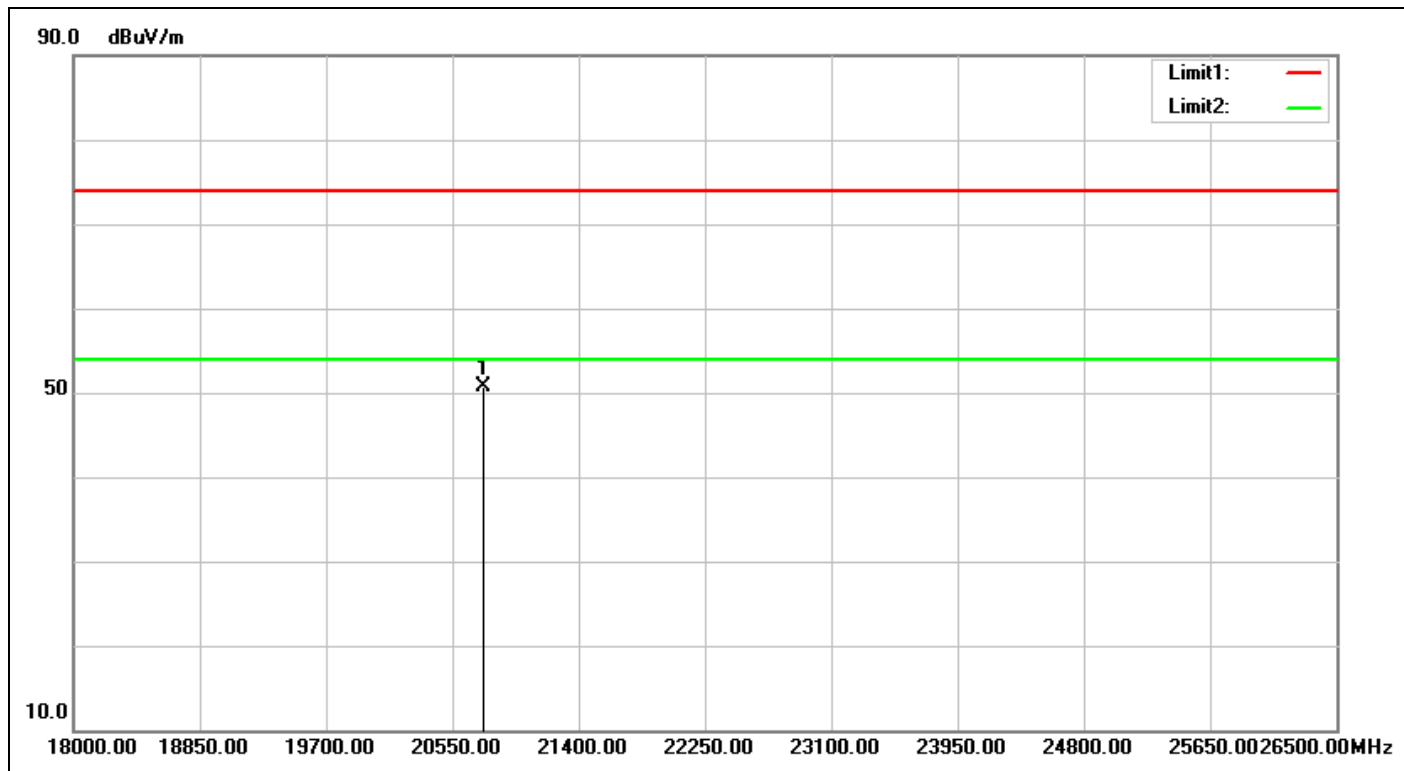
Spurious Emissions, TX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

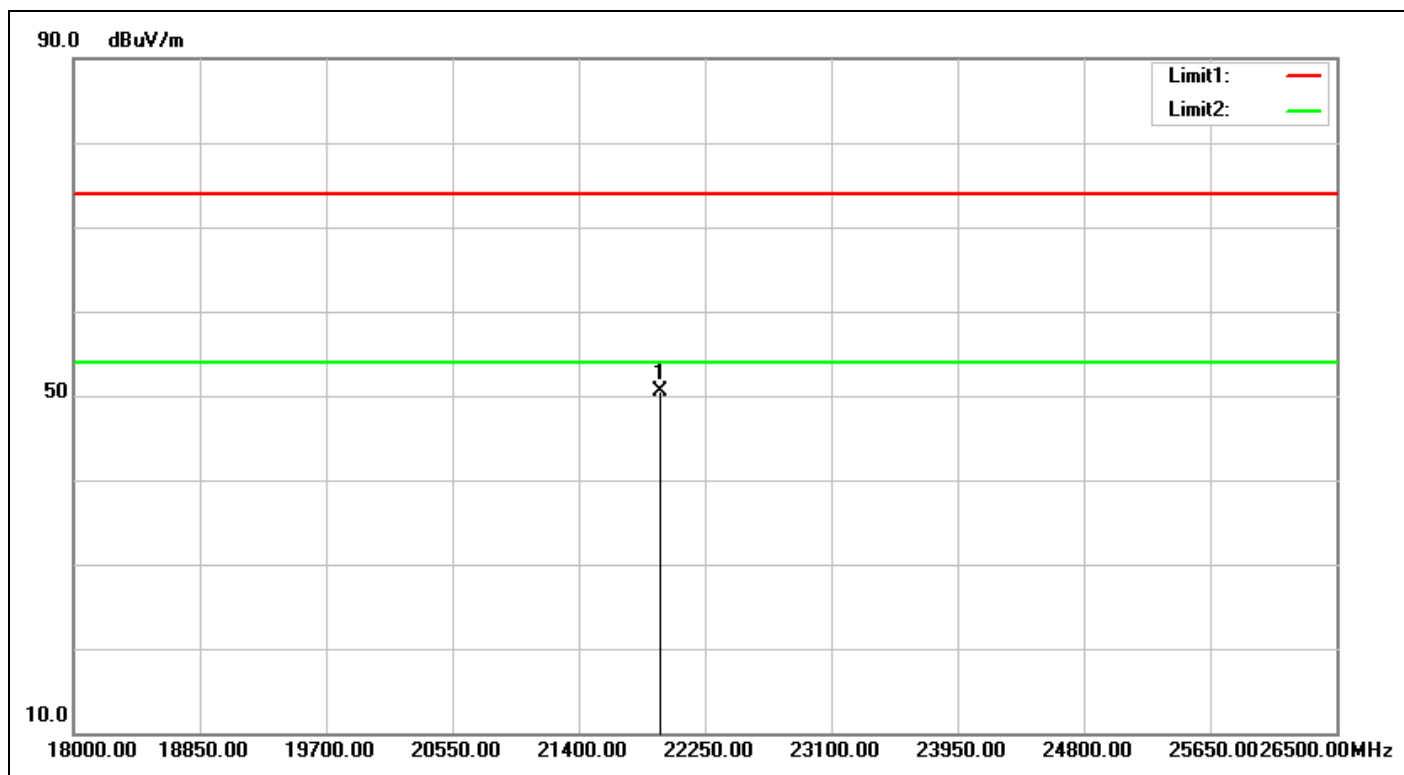
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



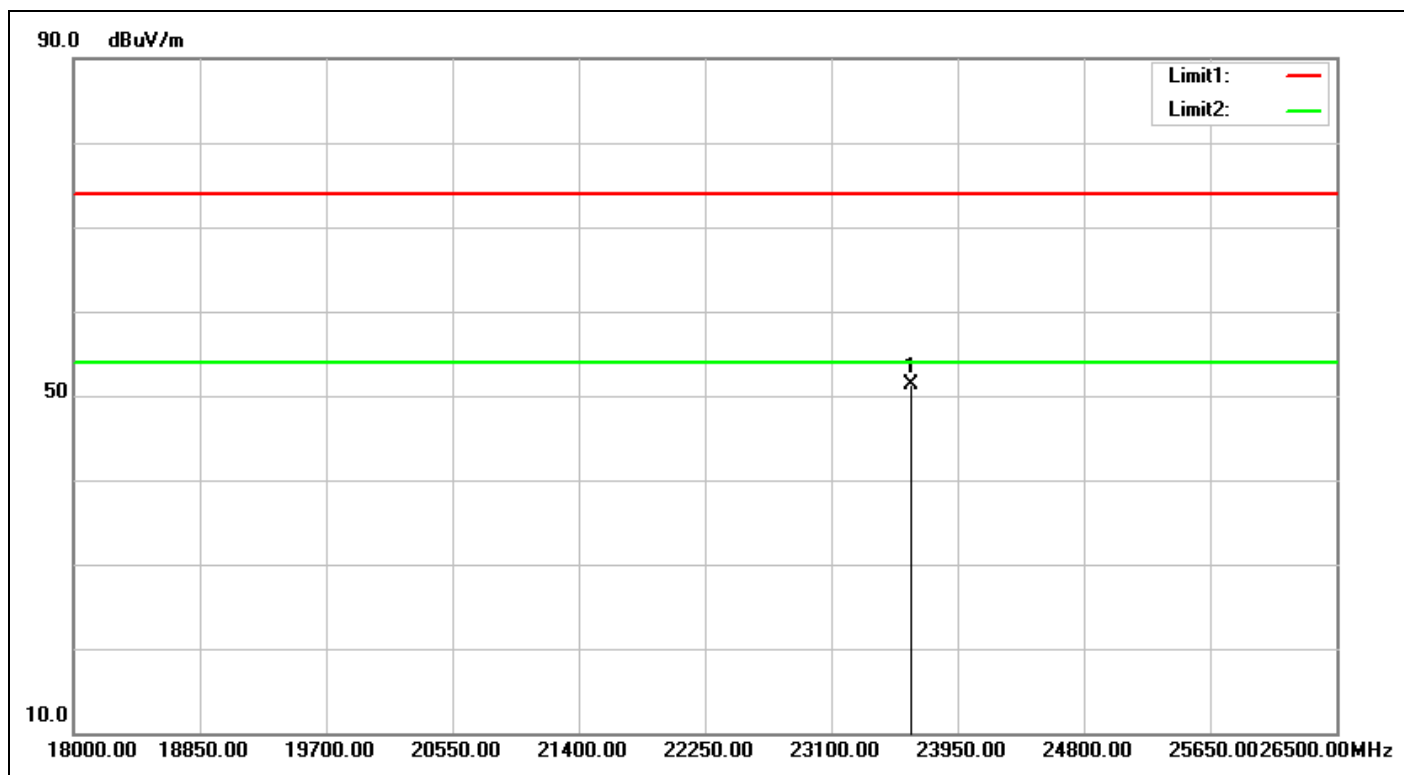
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:48:12
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20762.500	31.95	18.69	50.64	74.00	-23.36	peak		0	



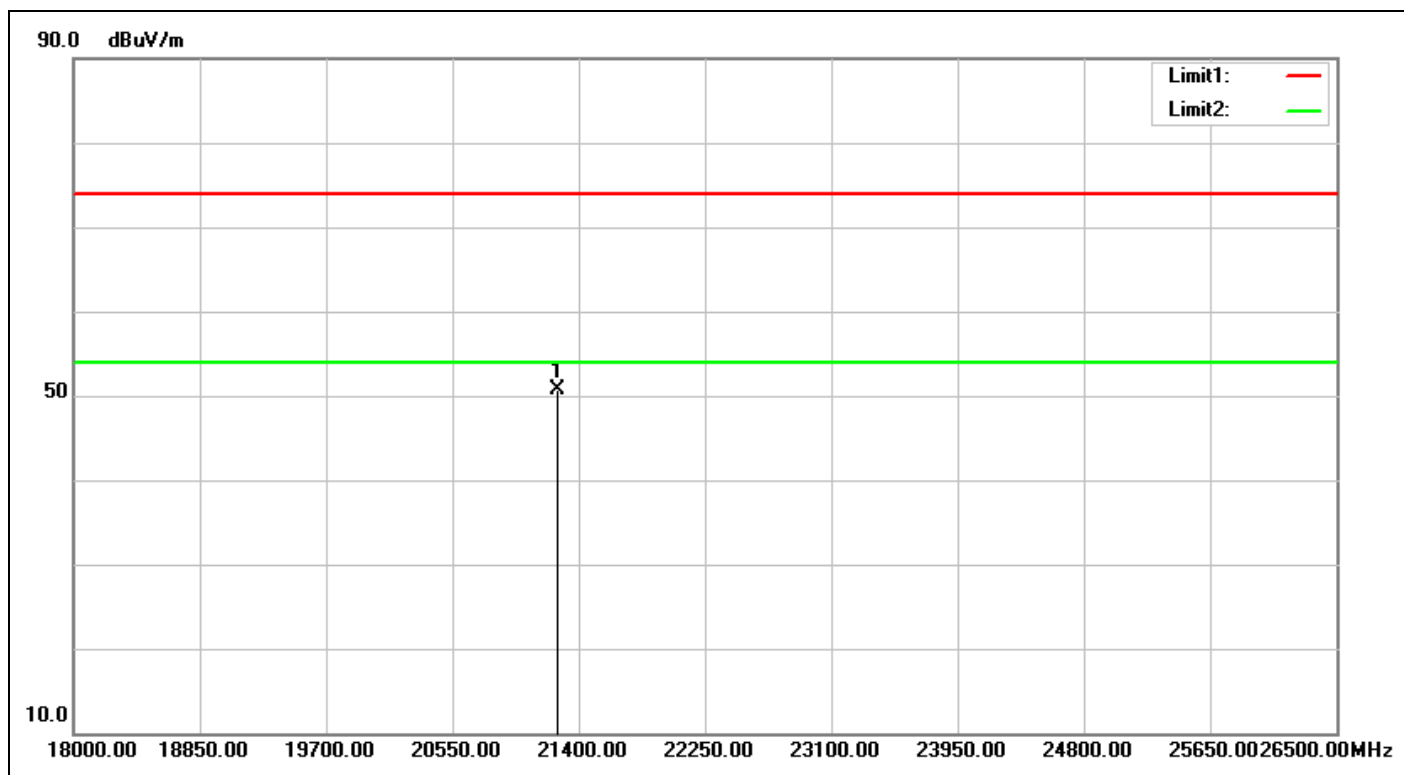
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:48:19
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21952.500	32.62	17.80	50.42	74.00	-23.58	peak			



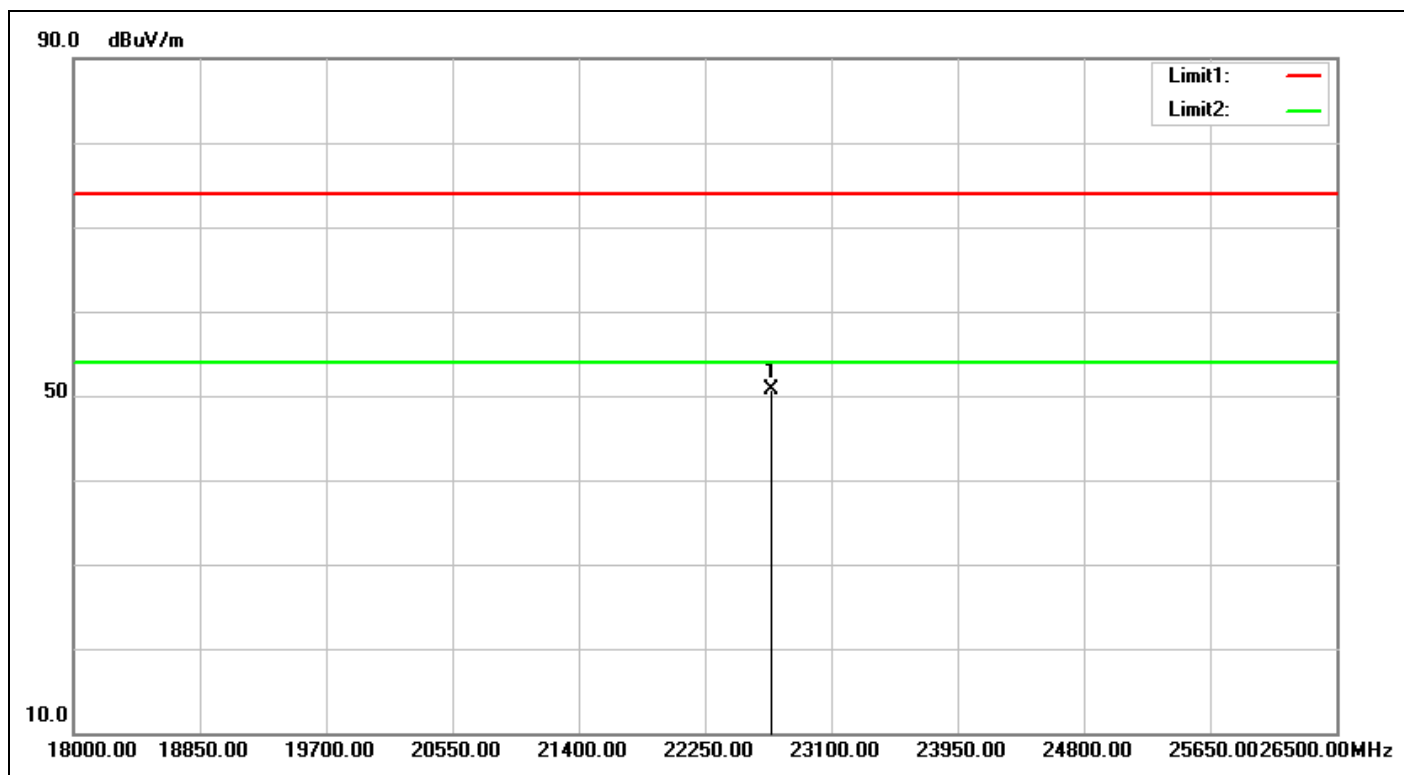
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:49:07
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23635.500	33.19	18.20	51.39	74.00	-22.61	peak			



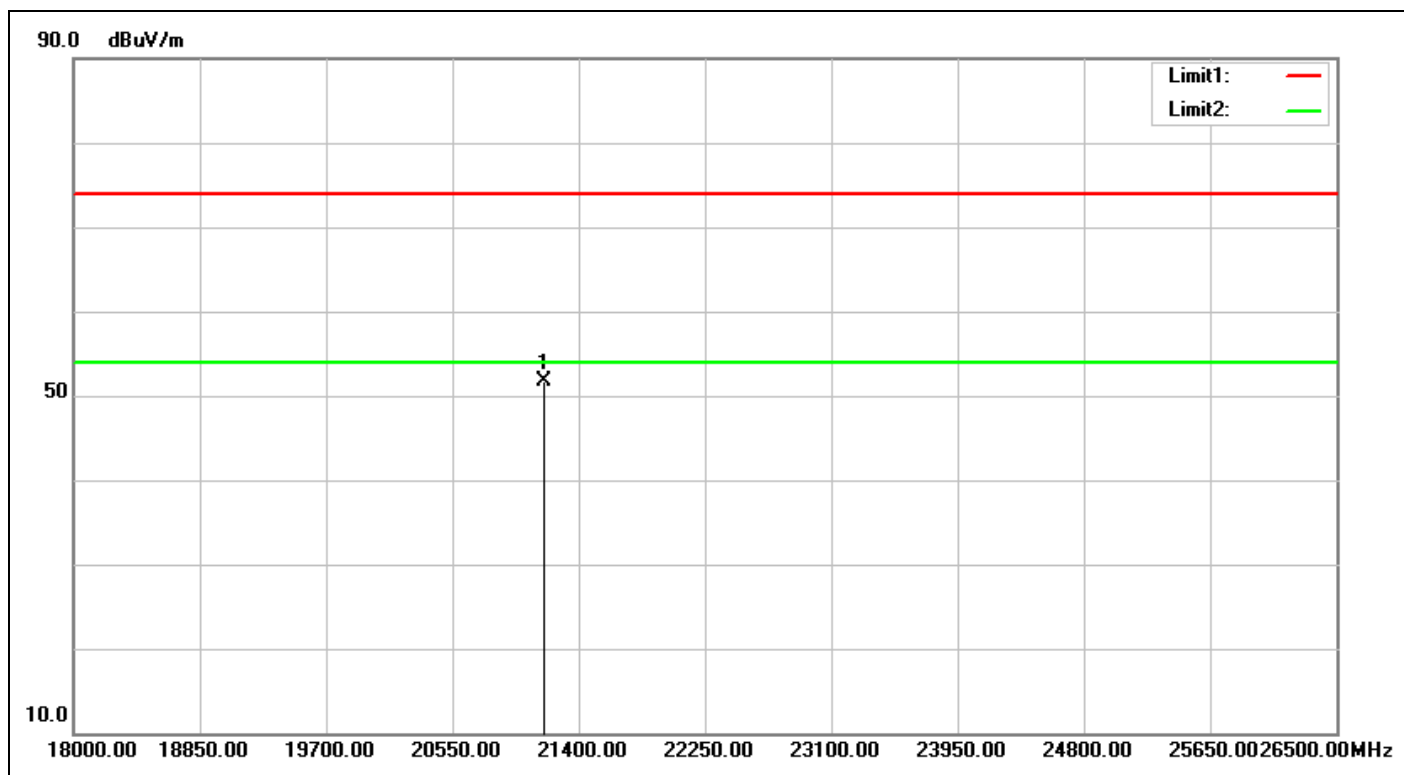
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:49:13
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21255.500	32.67	18.03	50.70	74.00	-23.30	peak			



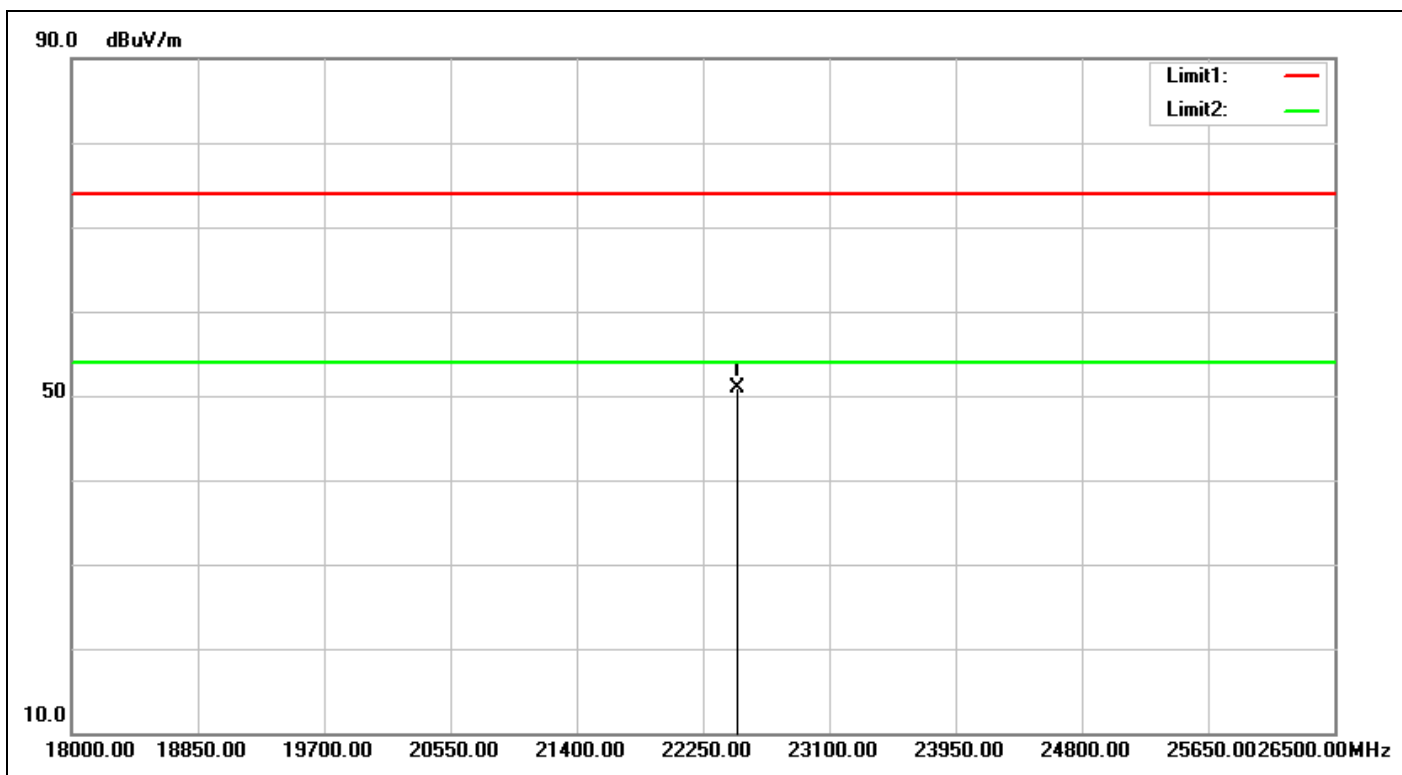
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:49:40
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22700.500	32.71	17.90	50.61	74.00	-23.39	peak			



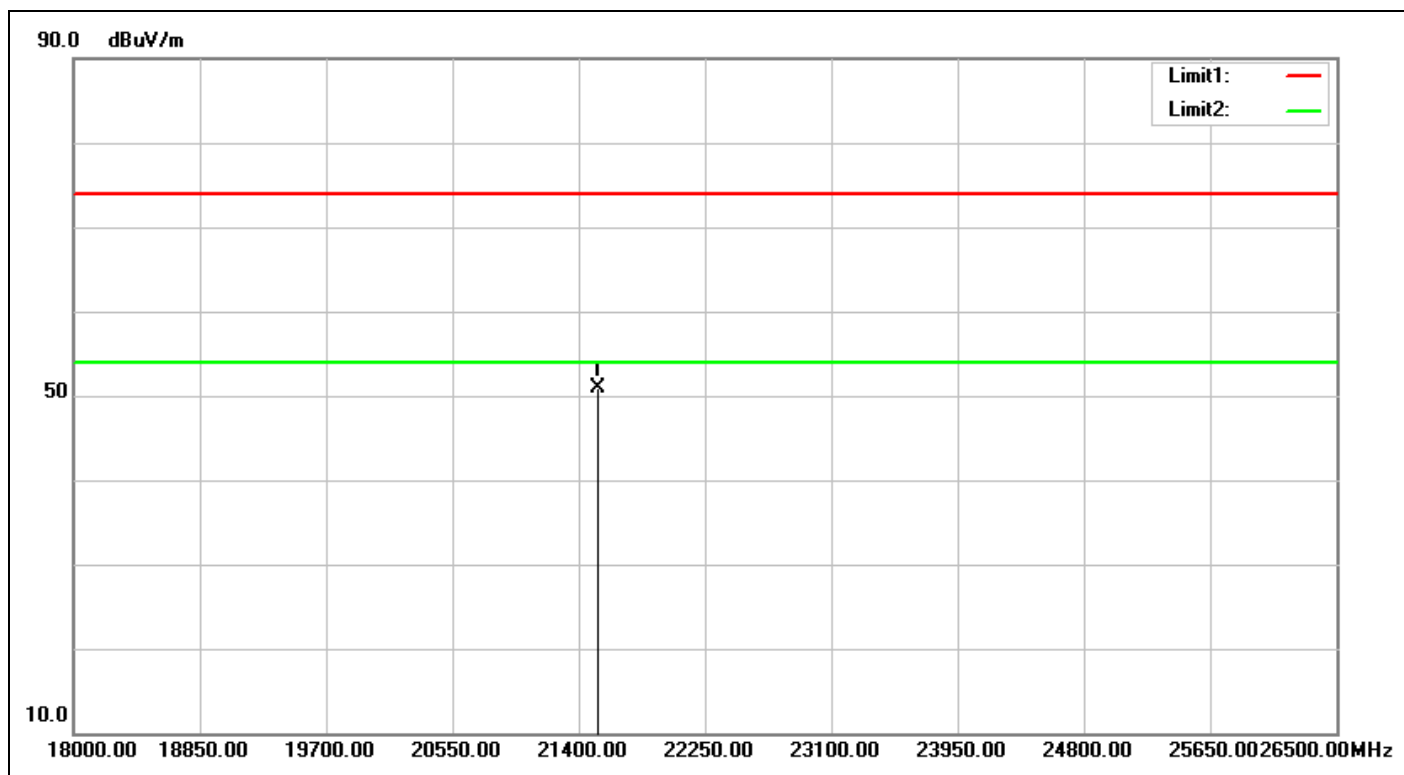
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:49:46
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21170.500	32.60	19.06	51.66	74.00	-22.34	peak			



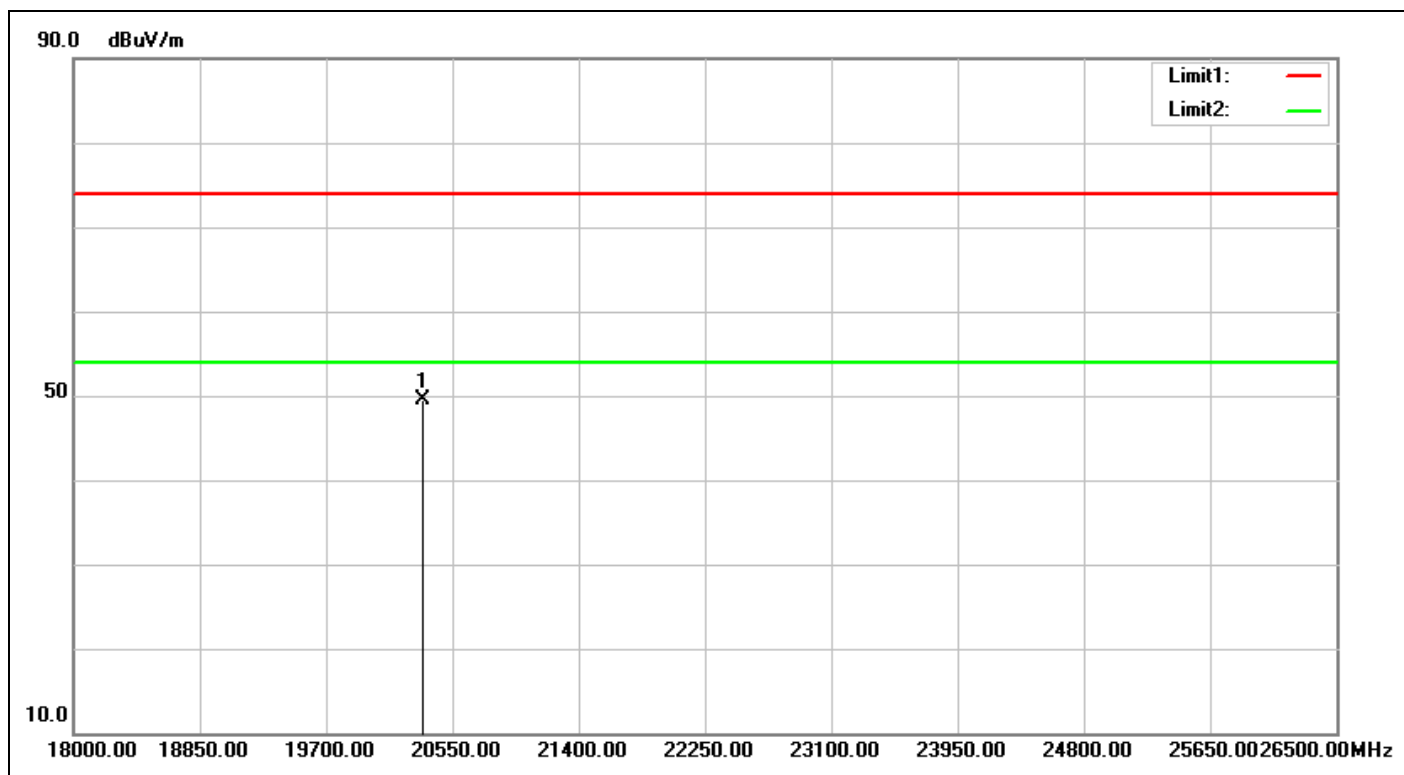
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:50:49
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1C		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22479.500	32.63	18.32	50.95	74.00	-23.05	peak			



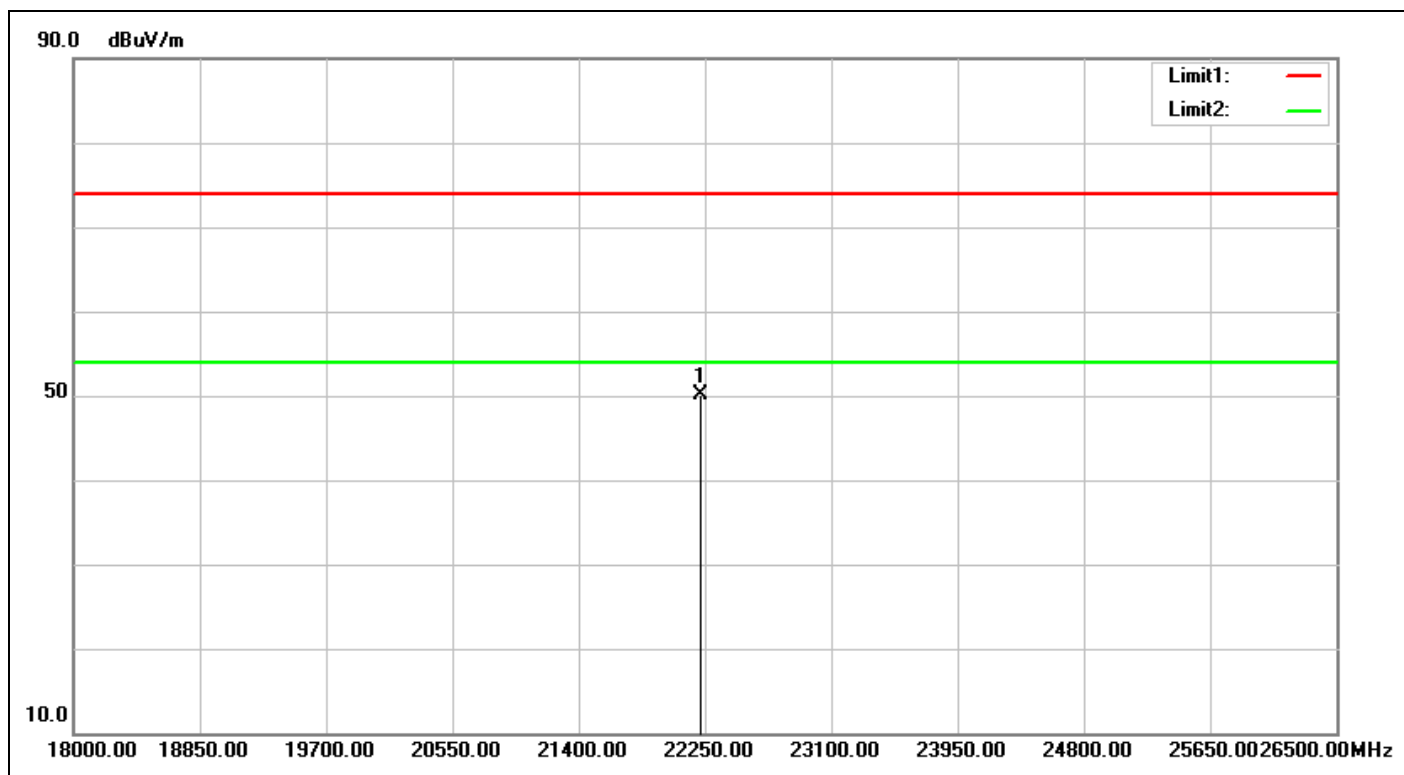
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:50:56
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1C		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21527.500	32.88	18.05	50.93	74.00	-23.07	peak			



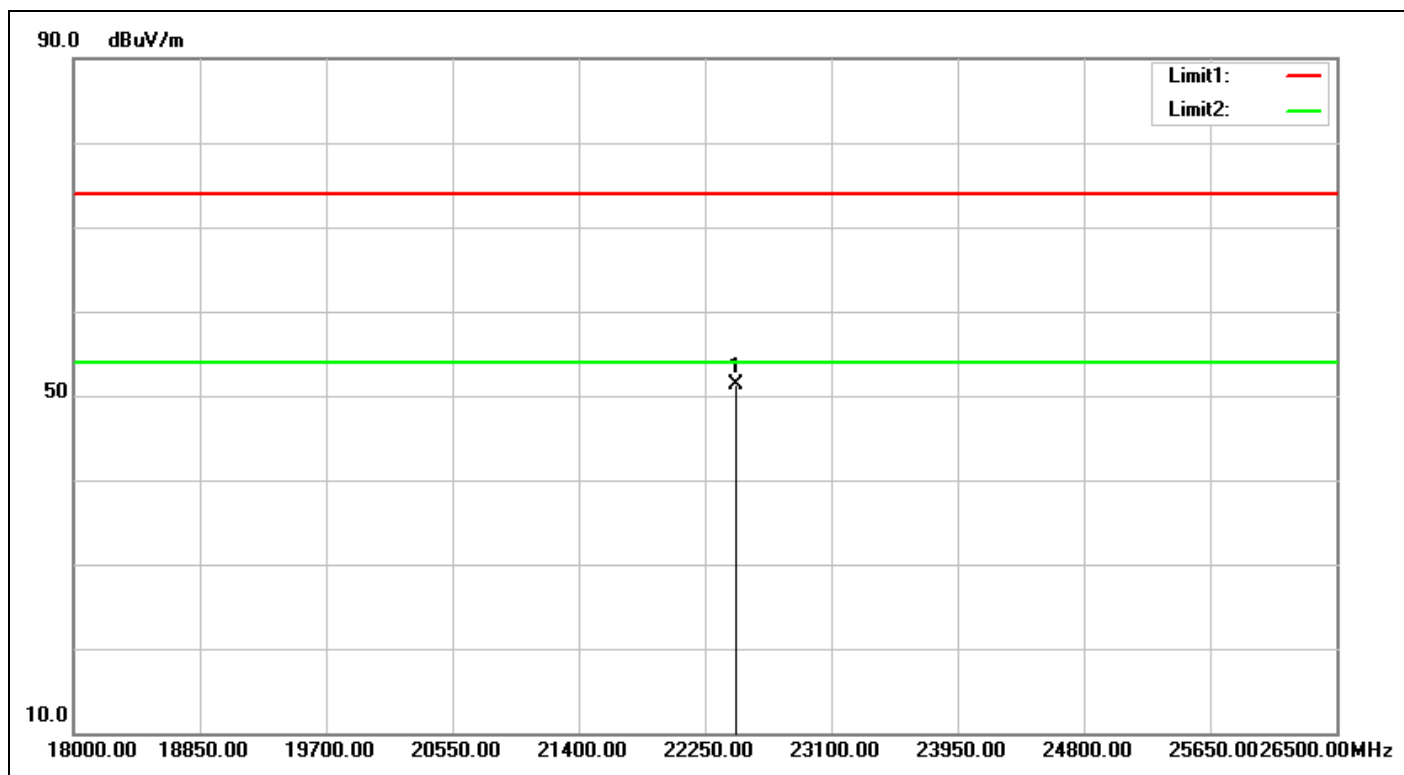
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:51:28
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20354.500	31.35	18.11	49.46	74.00	-24.54	peak			



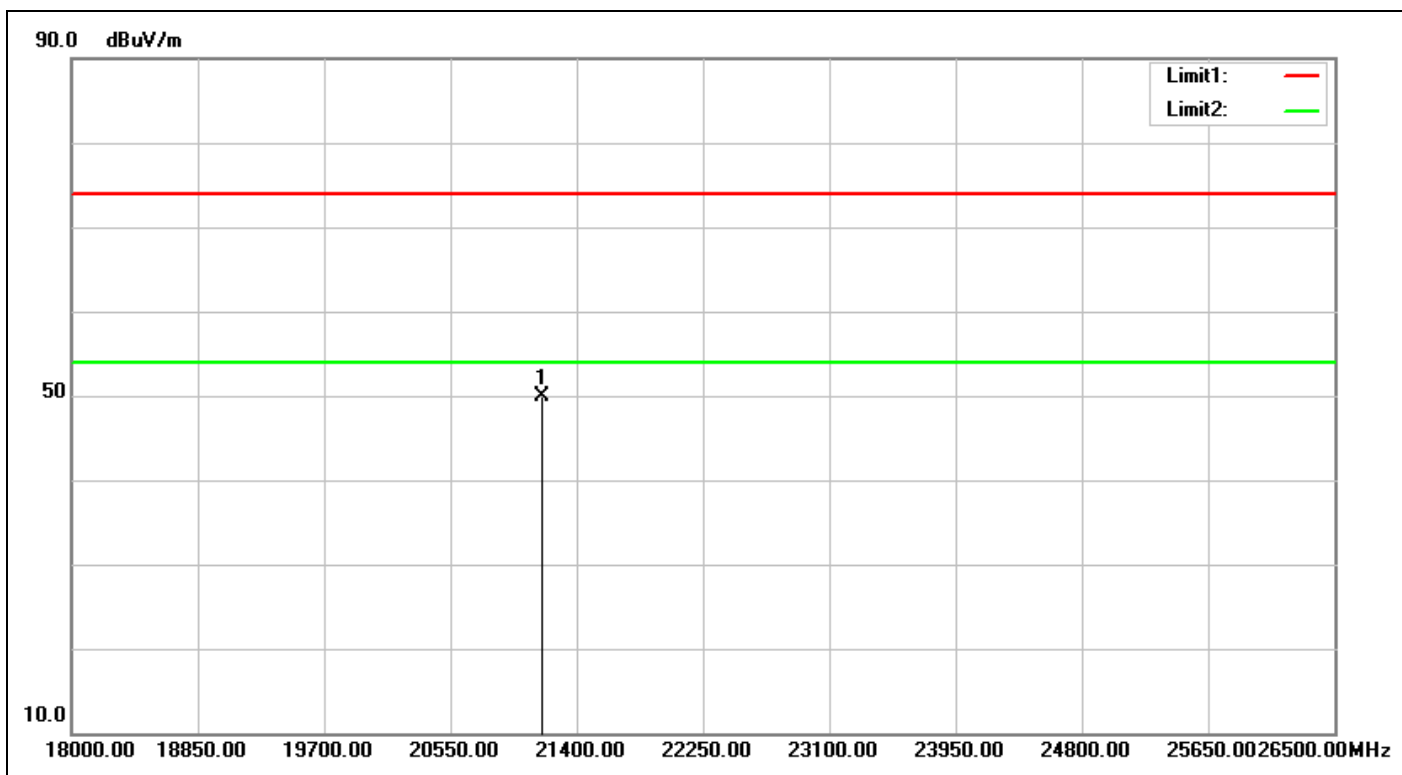
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:51:34
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22224.500	32.61	17.58	50.19	74.00	-23.81	peak			



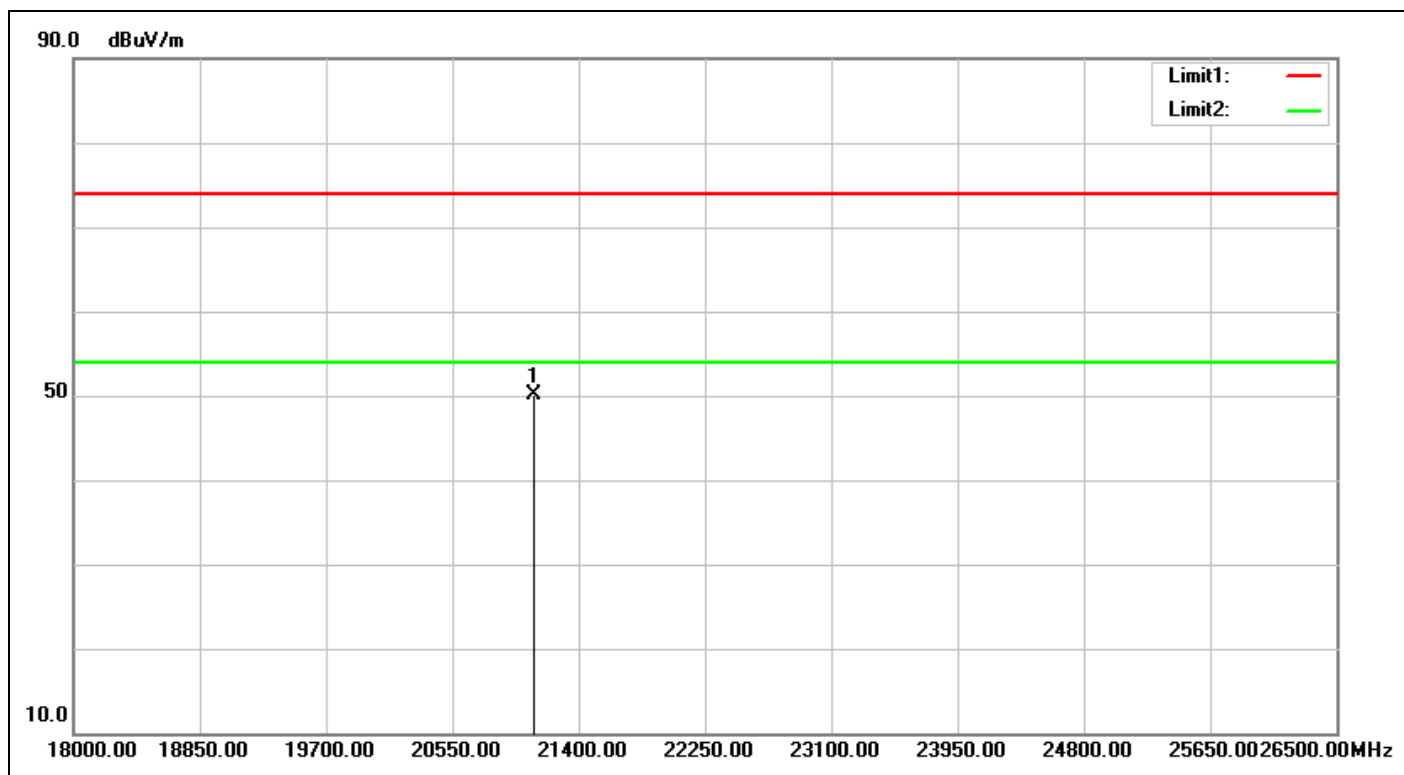
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:52:09
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22462.500	32.64	18.66	51.30	74.00	-22.70	peak			



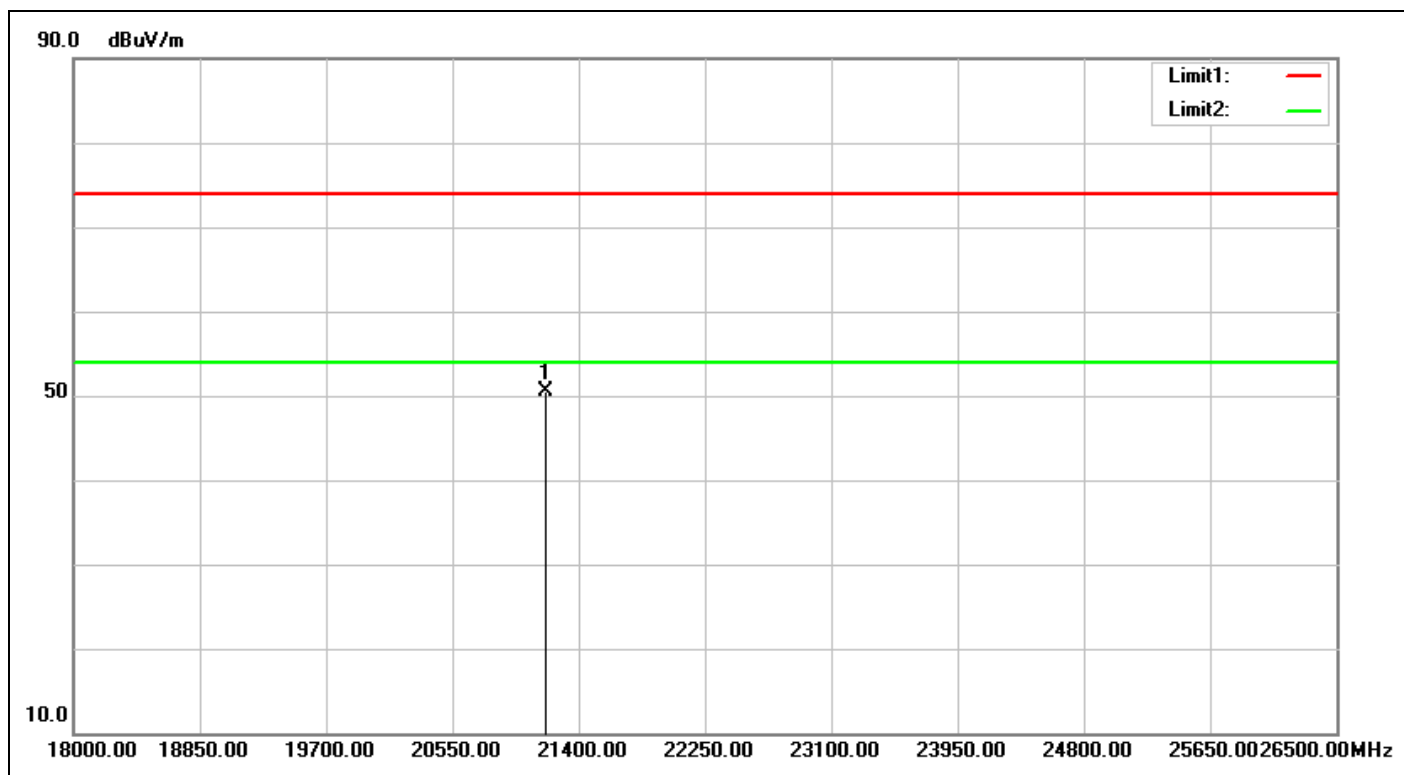
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:52:16
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21170.500	32.60	17.35	49.95	74.00	-24.05	peak			



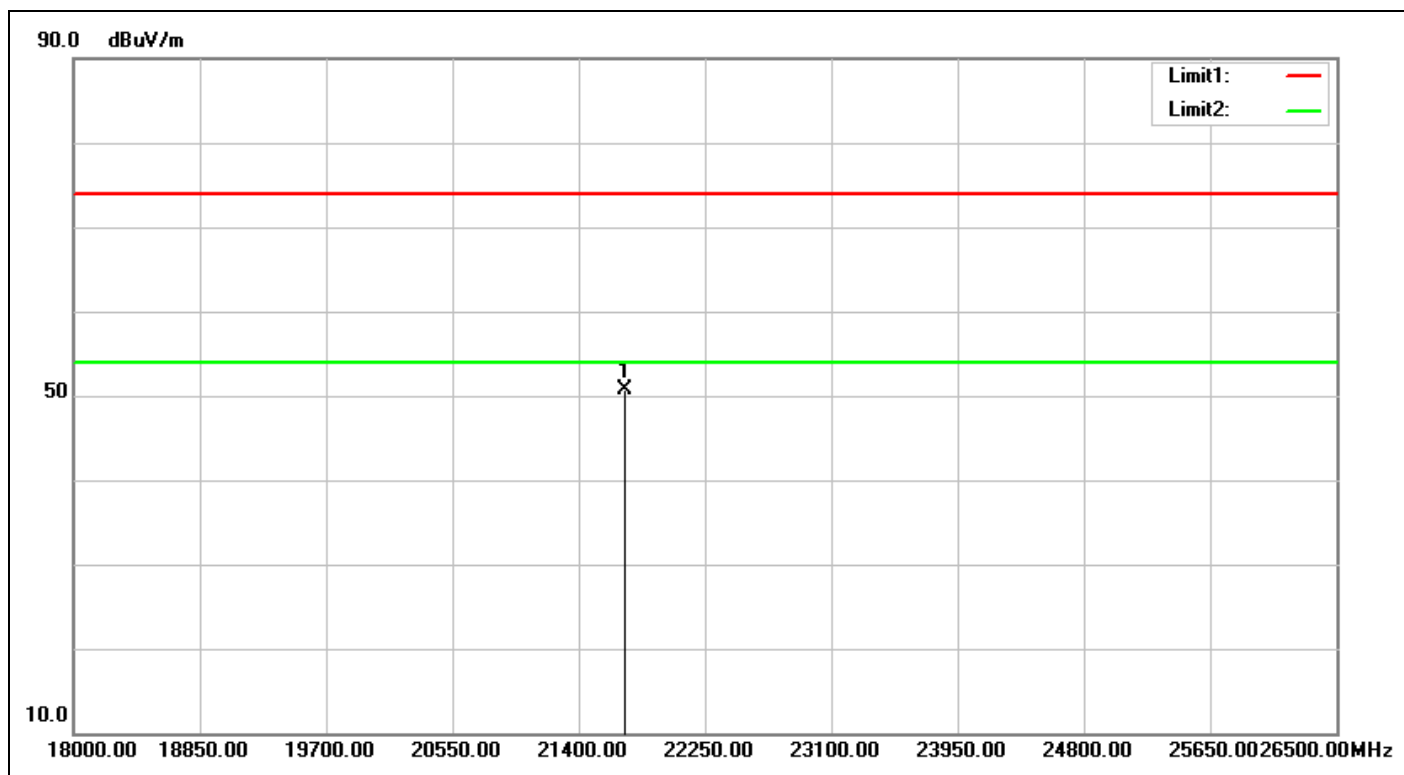
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:53:01
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21094.000	32.53	17.58	50.11	74.00	-23.89	peak			



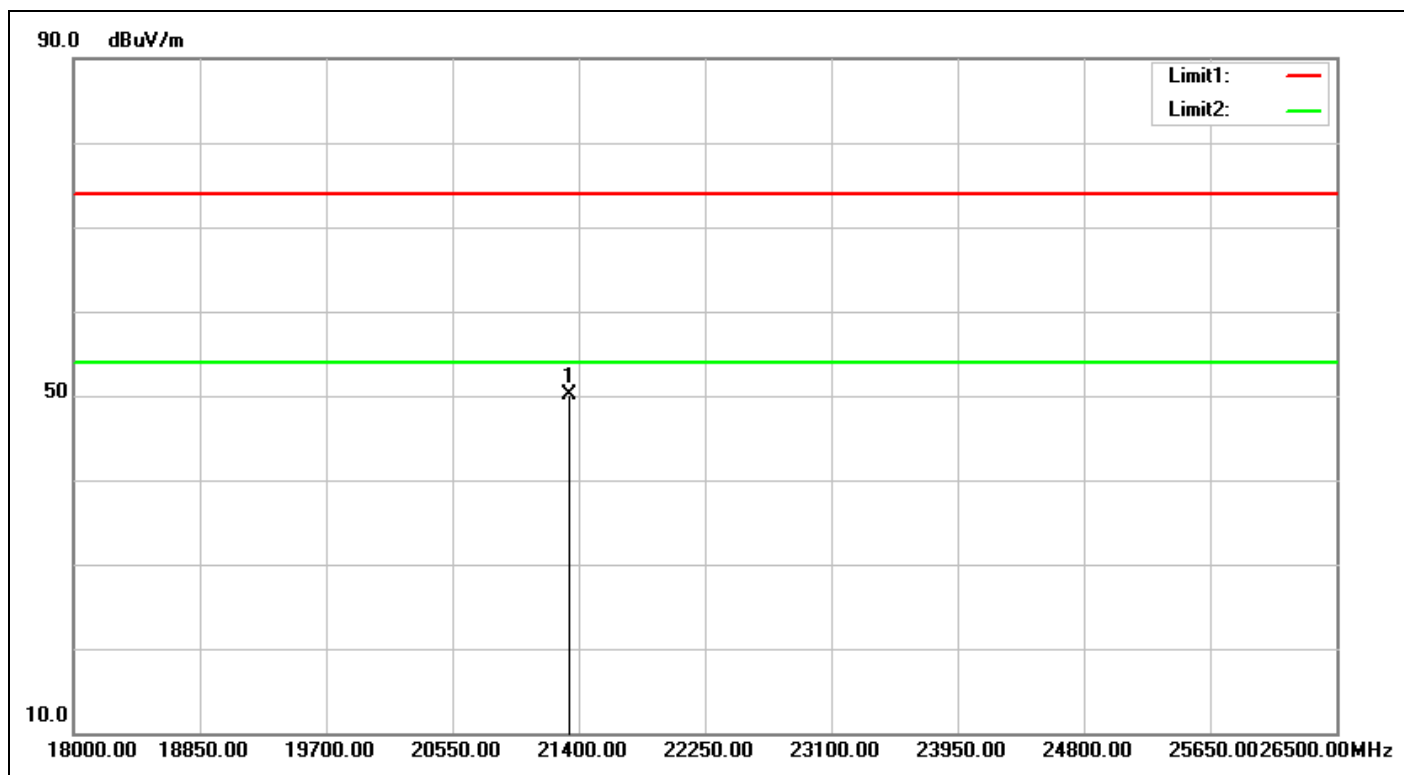
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:53:08
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21179.000	32.61	17.81	50.42	74.00	-23.58	peak			



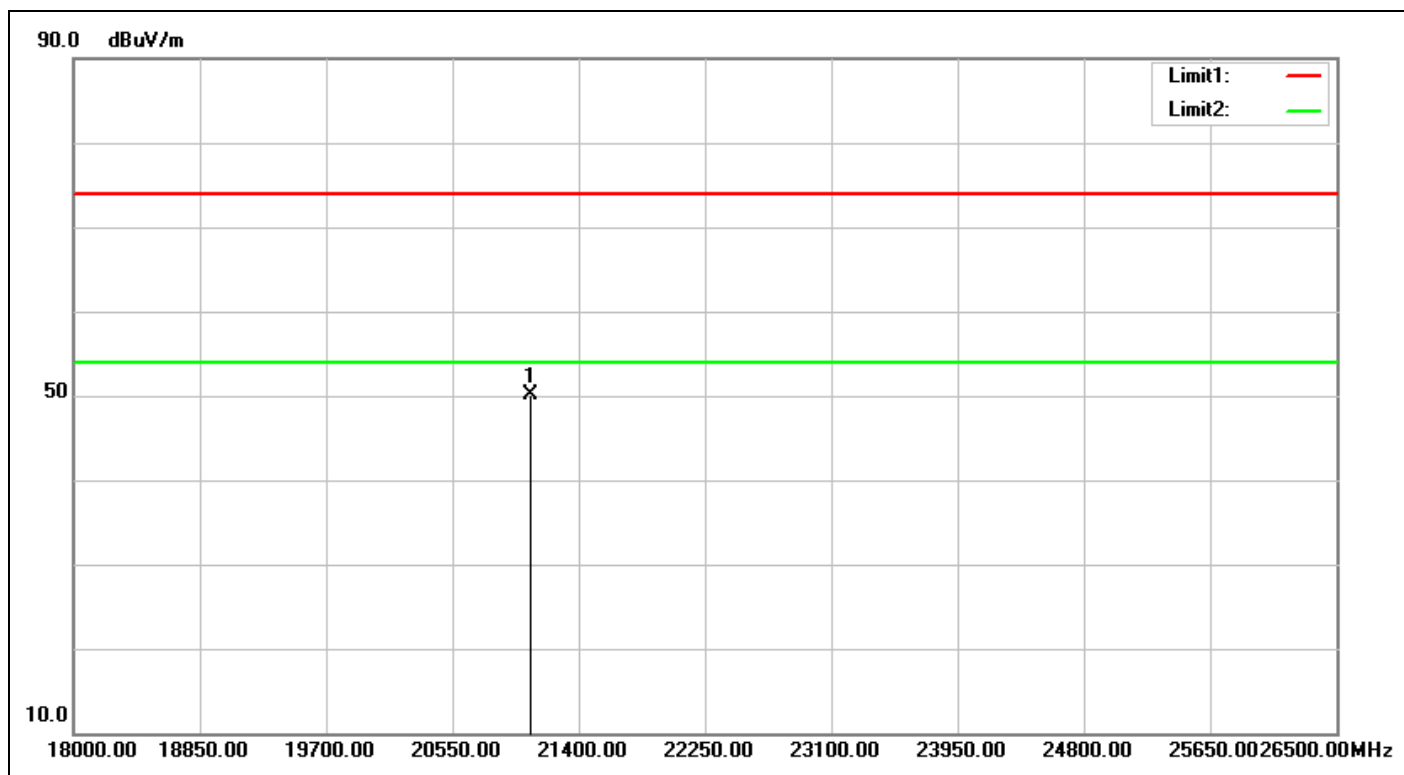
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:53:38
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 17 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21714.500	32.76	17.85	50.61	74.00	-23.39	peak			



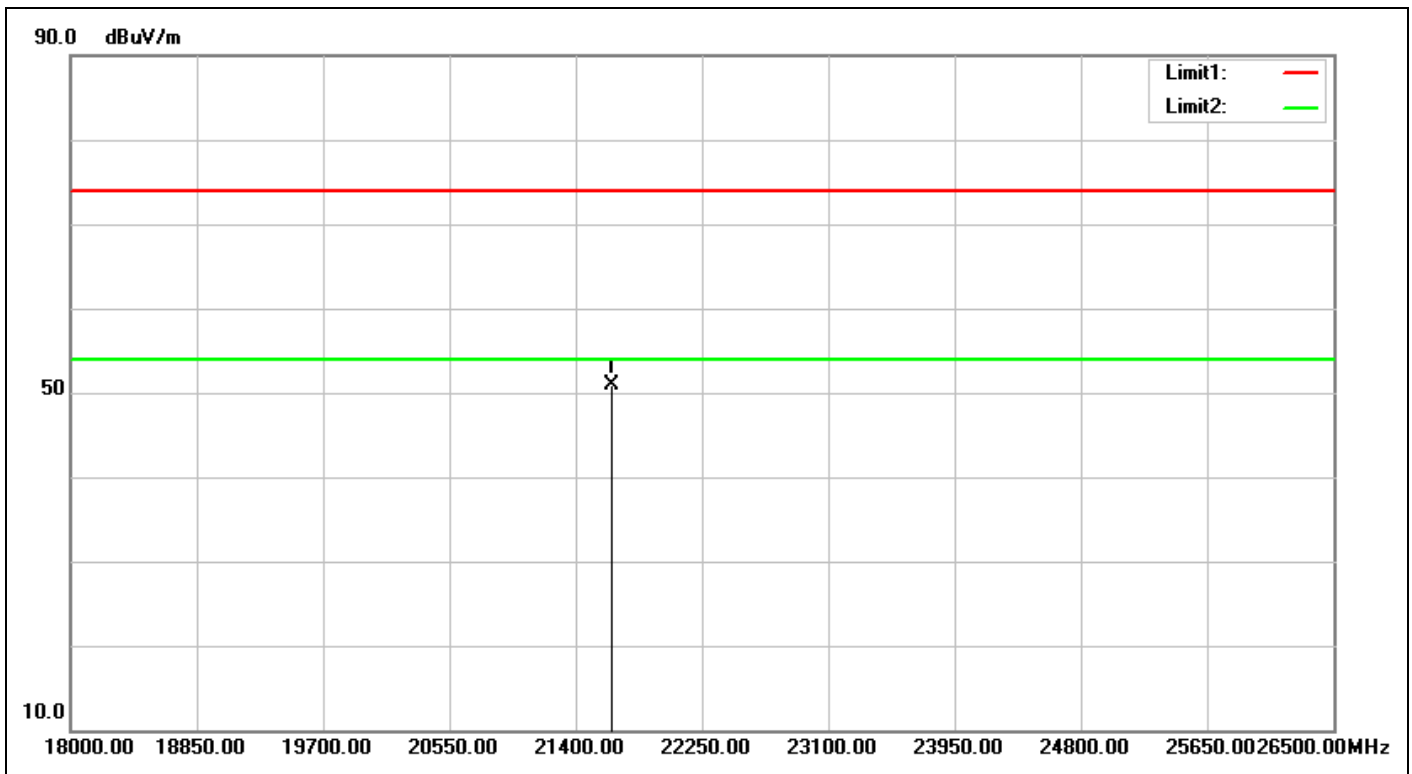
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:53:45
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 17 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21340.500	32.74	17.27	50.01	74.00	-23.99	peak			



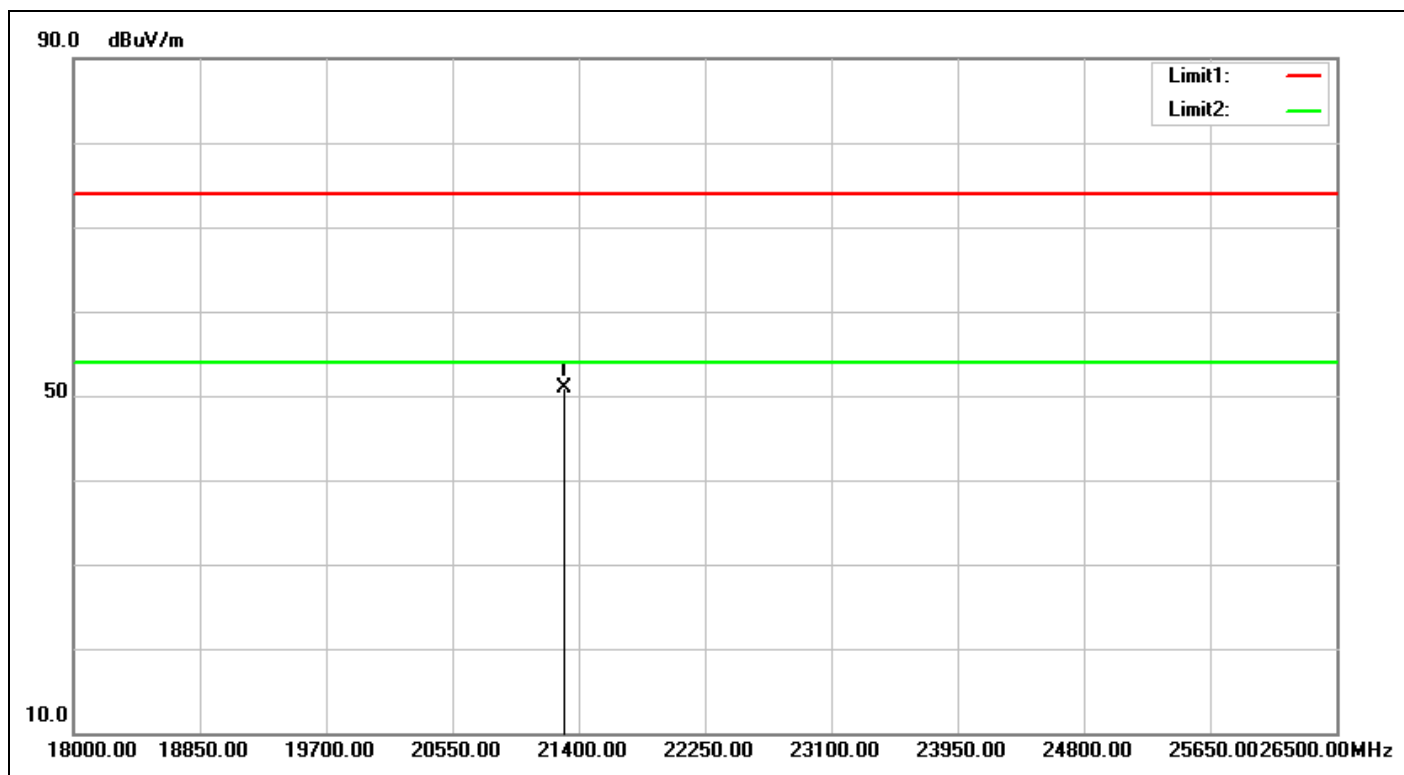
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:54:16
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 16 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21077.000	32.51	17.69	50.20	74.00	-23.80	peak			



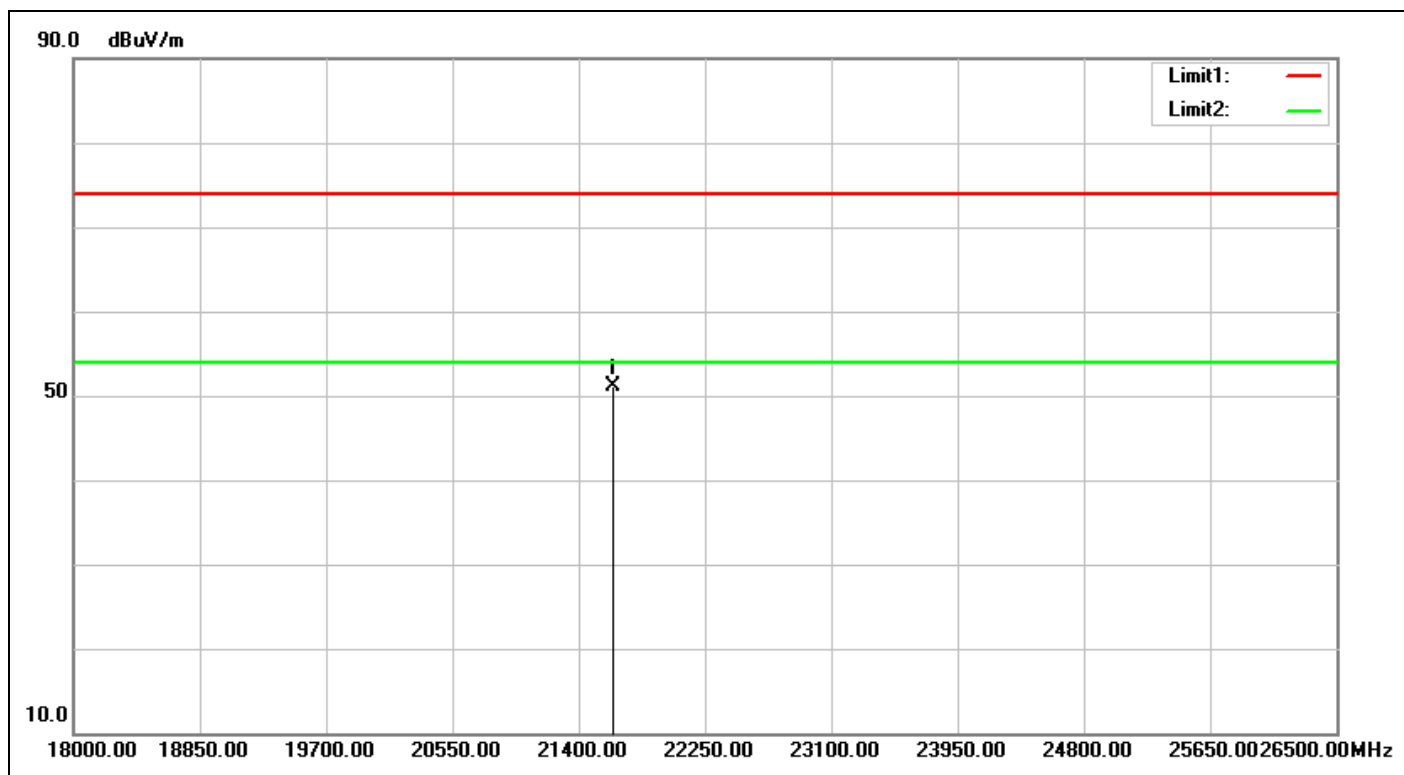
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:54:23
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 16 17		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21646.500	32.80	18.05	50.85	74.00	-23.15	peak			



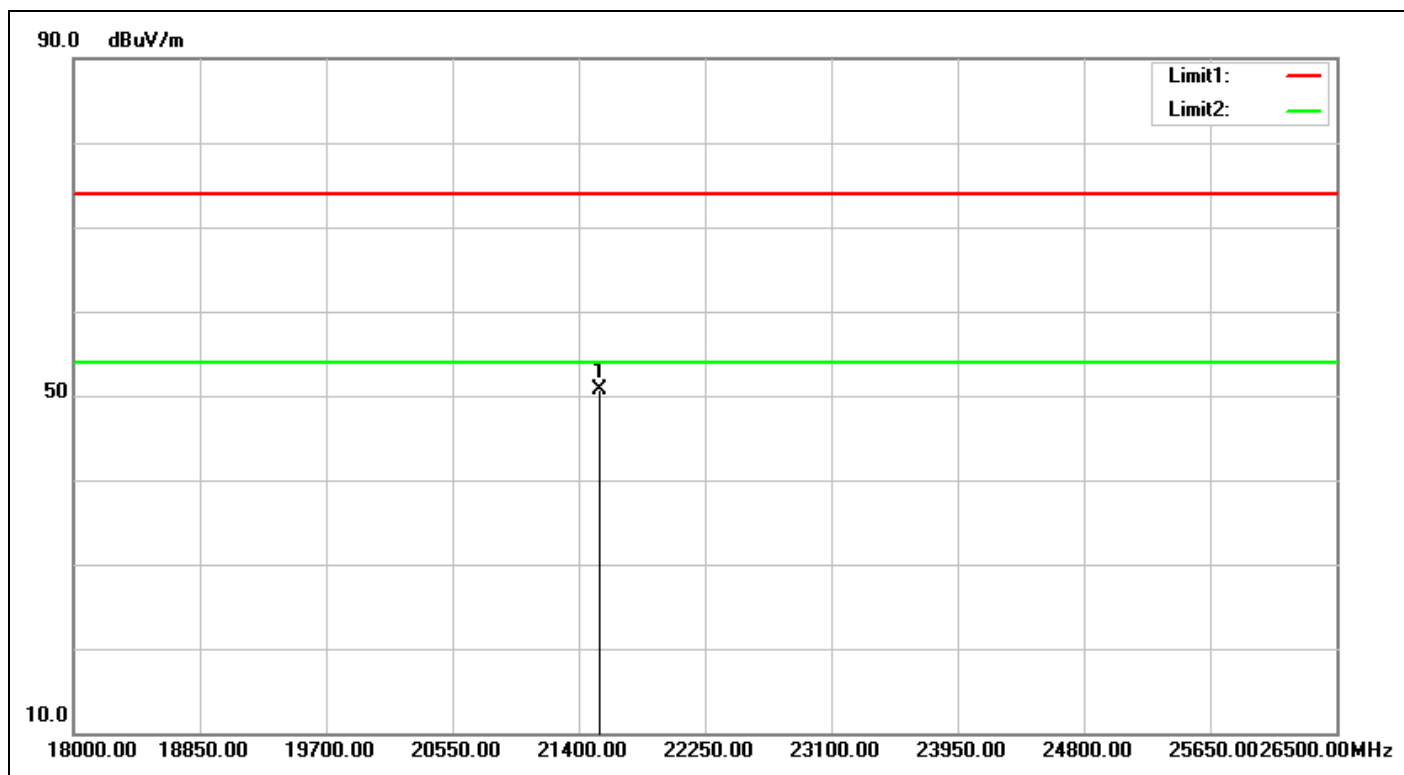
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:54:54
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	Power Setting 12 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21306.500	32.71	18.12	50.83	74.00	-23.17	peak			



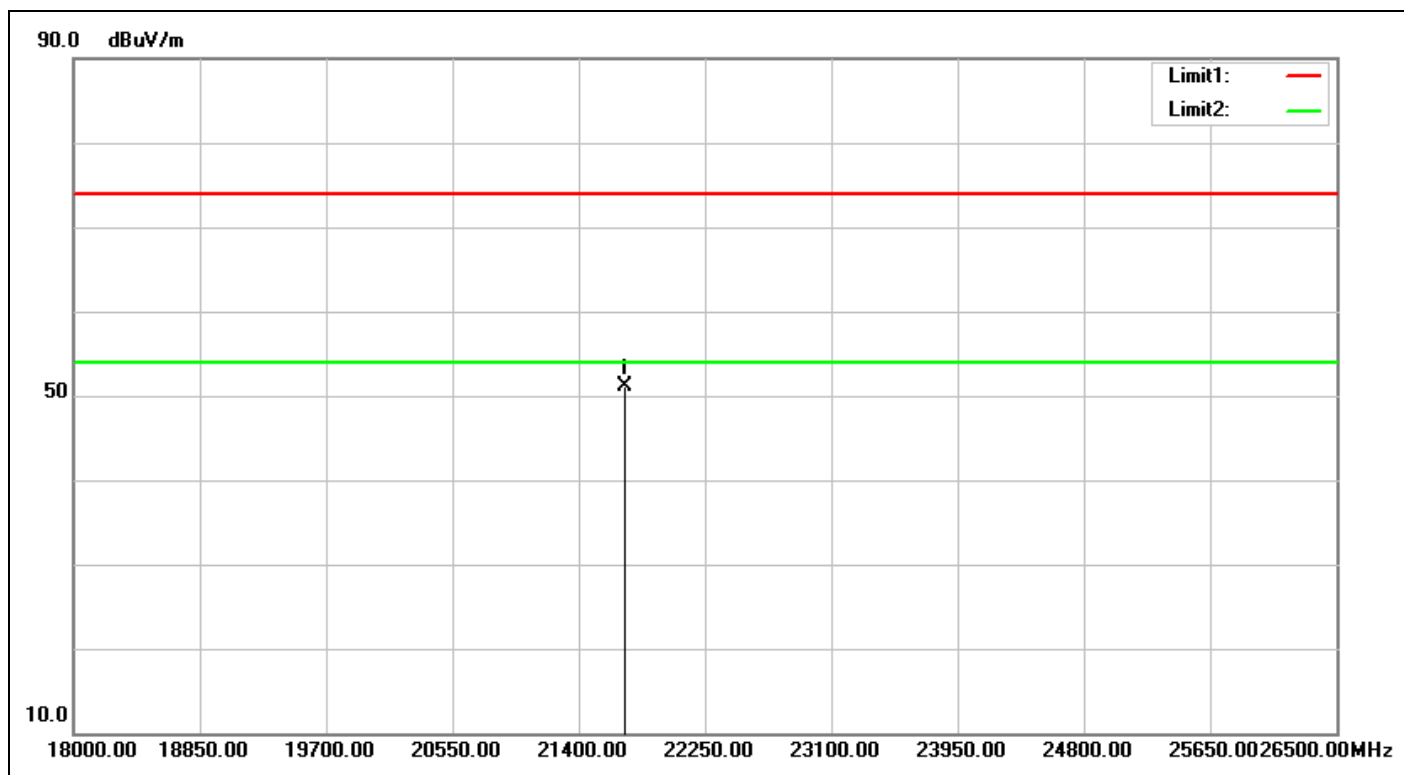
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:55:01
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2422-TX		
Remark:	Power Setting 12 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21629.500	32.81	18.32	51.13	74.00	-22.87	peak			



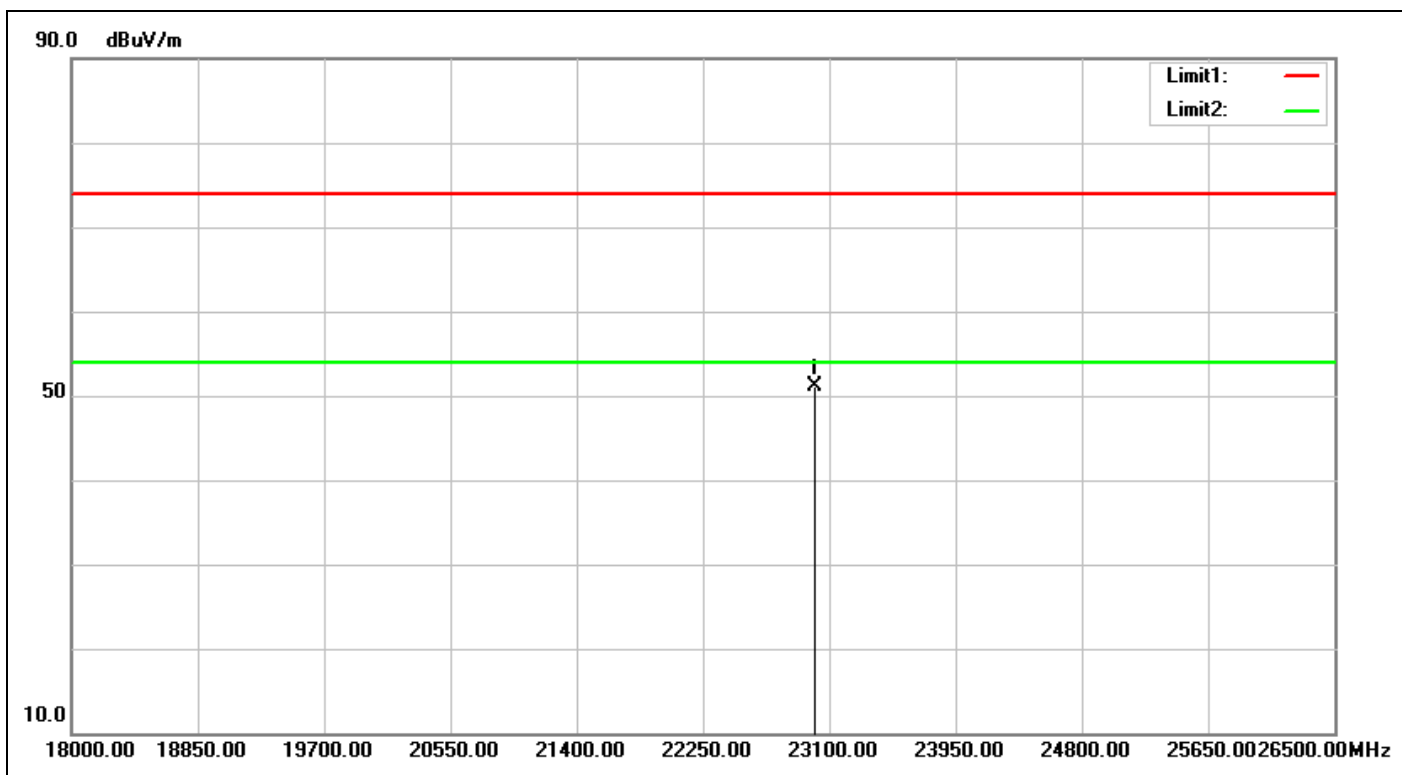
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:55:27
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21536.000	32.87	17.80	50.67	74.00	-23.33	peak			



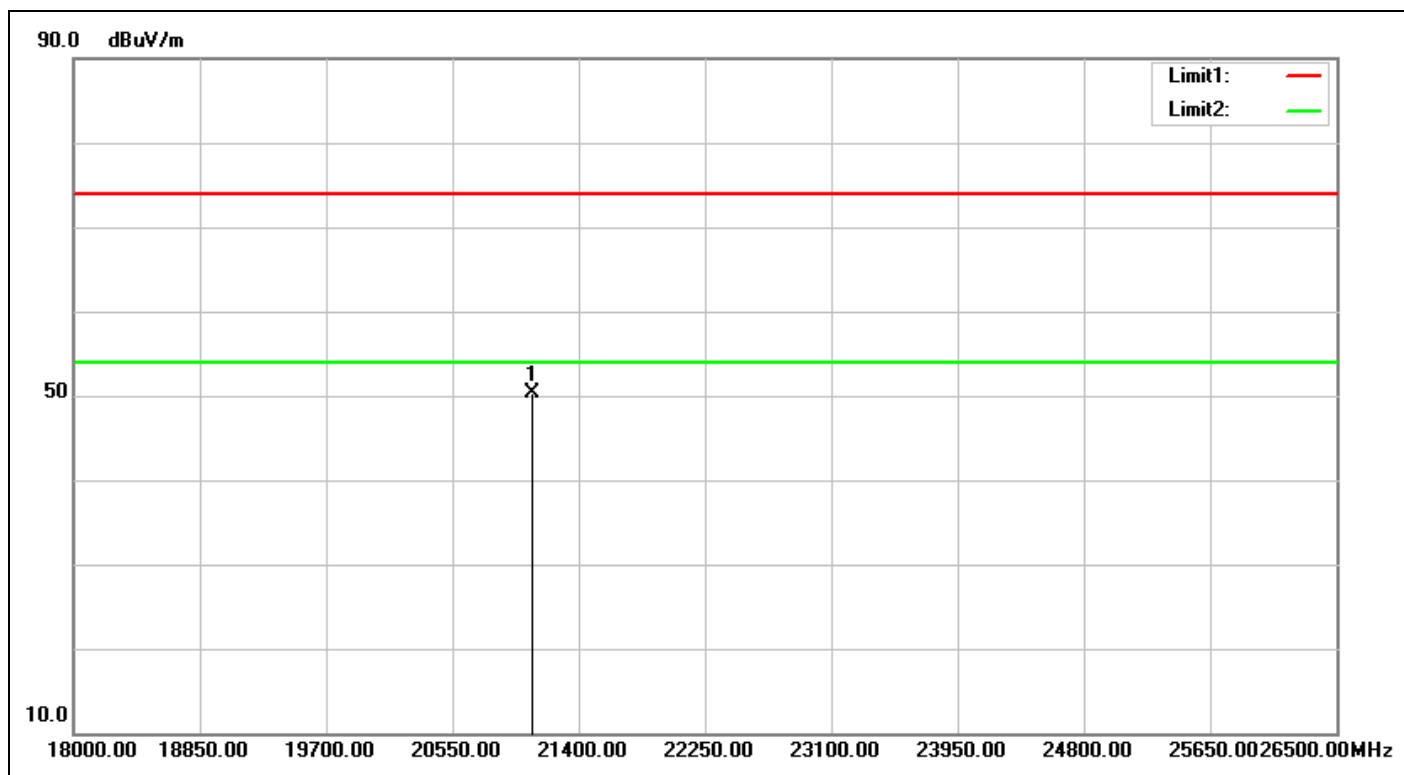
Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:55:34
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2437-TX		
Remark:	Power Setting 16 16		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21714.500	32.76	18.28	51.04	74.00	-22.96	peak			



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:56:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 13 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23006.500	32.81	18.29	51.10	74.00	-22.90	peak			



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:56:07
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 13 13		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21085.500	32.52	17.78	50.30	74.00	-23.70	peak			

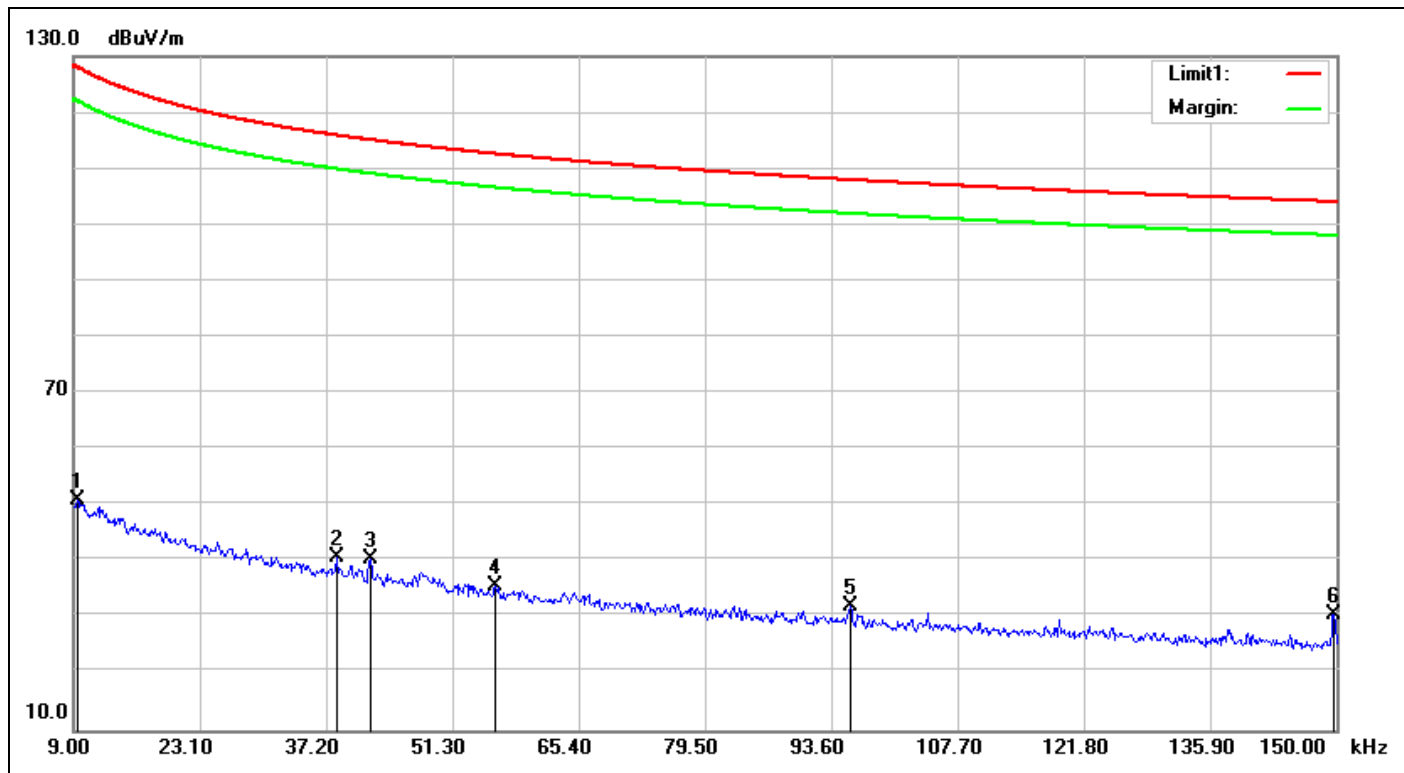
Spurious Emissions, TX Mode, 9k-30M



TUV Rheinland Taiwan Ltd.

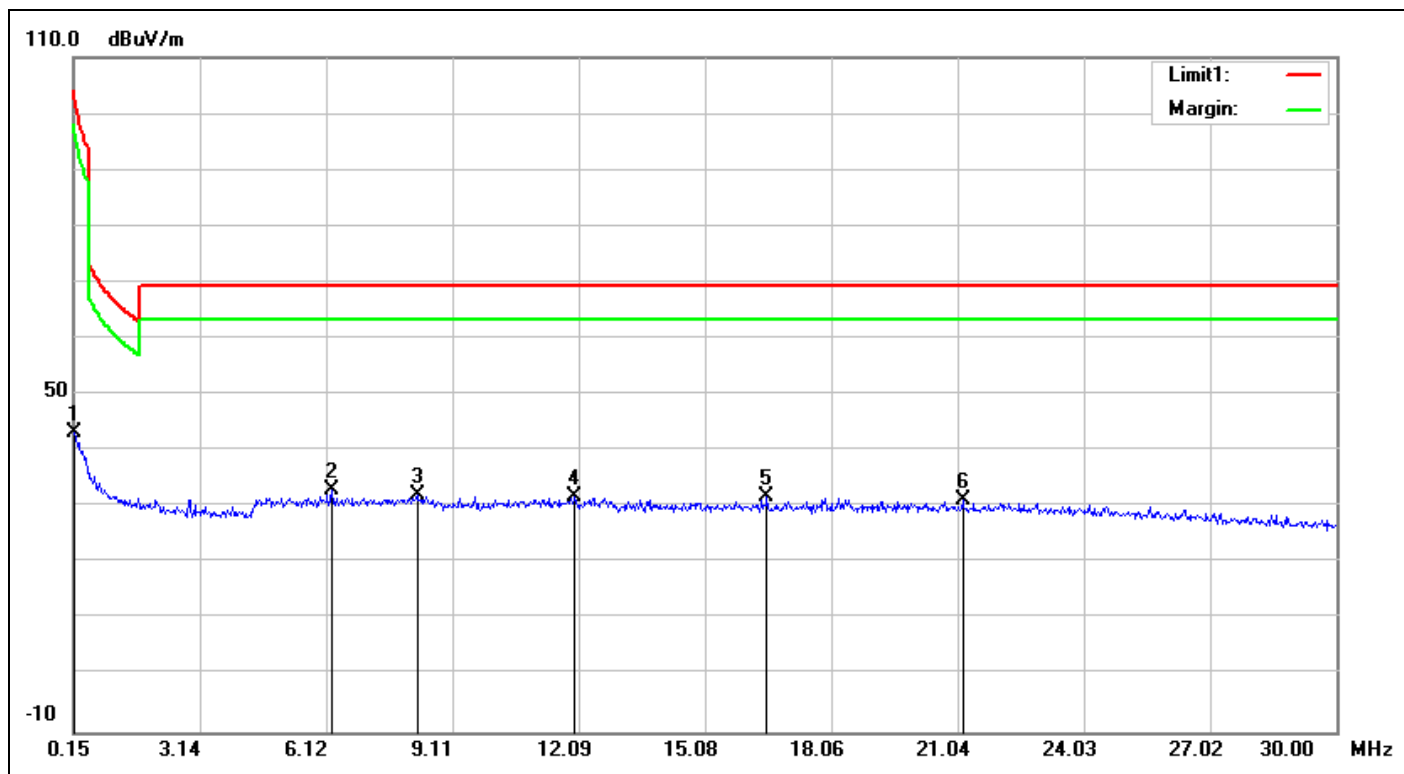
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/5/10 19:26:39
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0094	19.69	31.23	50.92	128.12	-77.20	QP	100	167	
2	0.0383	19.84	20.79	40.63	115.93	-75.30	QP	100	302	
3	0.0421	19.71	20.79	40.50	115.11	-74.61	QP	100	331	
4	0.0560	19.39	16.18	35.57	112.63	-77.06	QP	100	128	
5	0.0957	19.16	12.79	31.95	107.98	-76.03	QP	100	196	
6	0.1497	19.08	11.47	30.55	104.09	-73.54	QP	100	167	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/5/10 19:30:13
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1798	19.06	24.30	43.36	102.50	-59.14	QP	100	52	
2	6.2394	19.87	13.23	33.10	69.50	-36.40	QP	100	106	
3	8.2692	20.06	12.04	32.10	69.50	-37.40	QP	100	224	
4	12.0004	20.57	11.16	31.73	69.50	-37.77	QP	100	306	
5	16.5376	21.37	10.39	31.76	69.50	-37.74	QP	100	122	
6	21.1644	22.06	9.29	31.35	69.50	-38.15	QP	100	27	

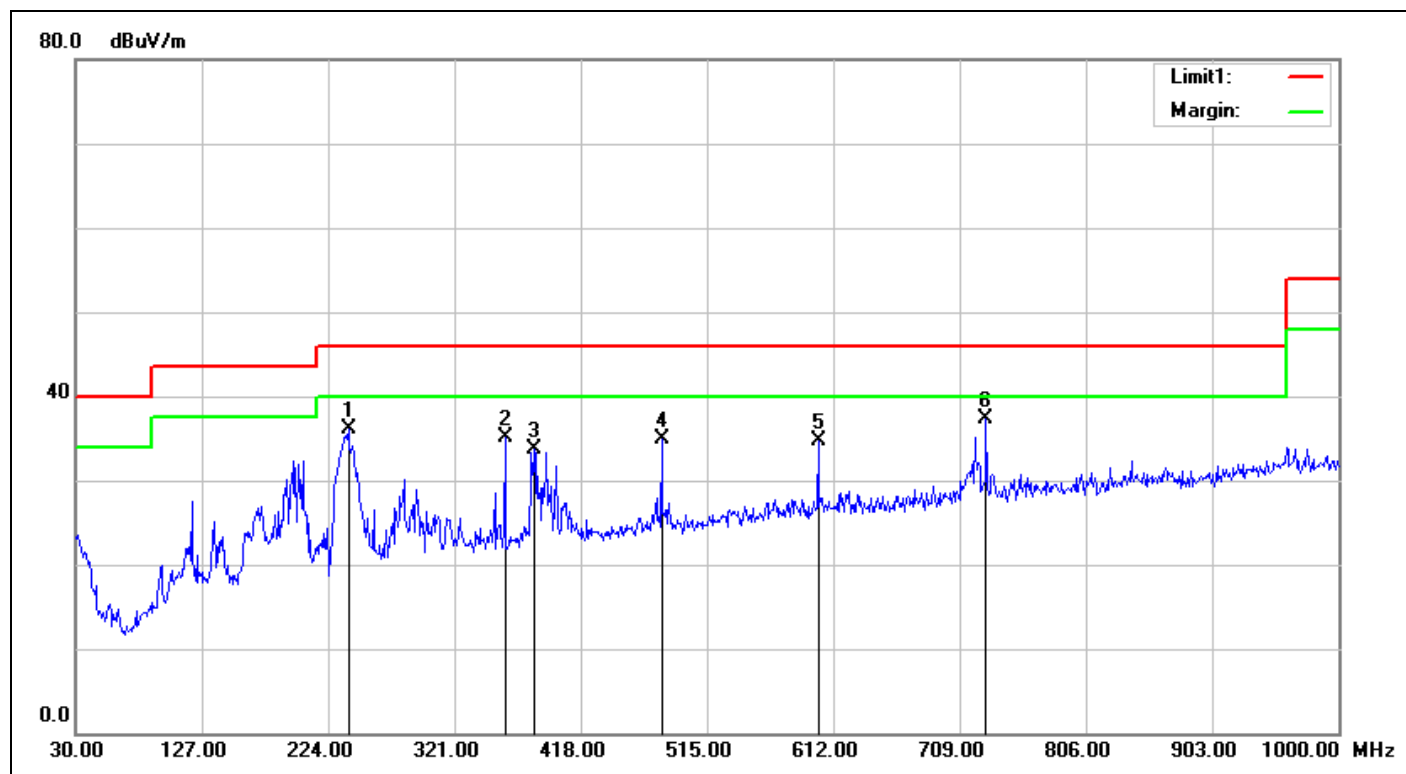
Spurious Emissions, TX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

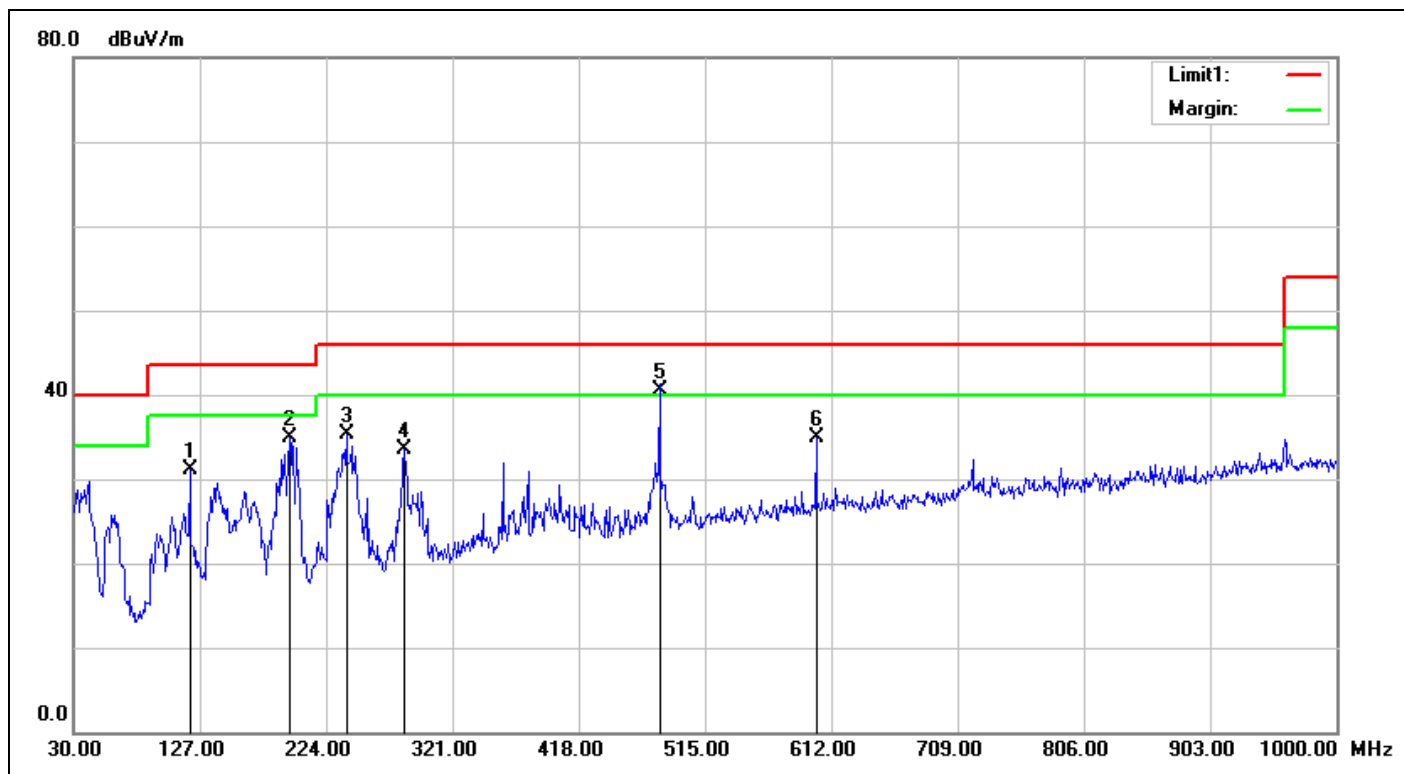
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 19:16:33
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	239.5200	-6.85	42.86	36.01	46.00	-9.99	QP	100	61	
2	359.8000	-3.16	38.33	35.17	46.00	-10.83	QP	100	143	
3	382.1100	-2.76	36.38	33.62	46.00	-12.38	QP	100	1	
4	480.0800	-1.47	36.38	34.91	46.00	-11.09	QP	100	38	
5	600.3600	0.08	34.72	34.80	46.00	-11.20	QP	100	143	
6	729.3700	1.92	35.30	37.22	46.00	-8.78	QP	100	65	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 19:17:26
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	119.2400	-7.50	38.53	31.03	43.50	-12.47	QP	100	239	
2	195.8700	-9.17	44.02	34.85	43.50	-8.65	QP	100	192	
3	239.5200	-6.85	42.09	35.24	46.00	-10.76	QP	100	168	
4	284.1400	-5.00	38.47	33.47	46.00	-12.53	QP	100	266	
5	480.0800	-1.47	42.07	40.60	46.00	-5.40	QP	100	185	
6	600.3600	0.08	34.84	34.92	46.00	-11.08	QP	100	259	

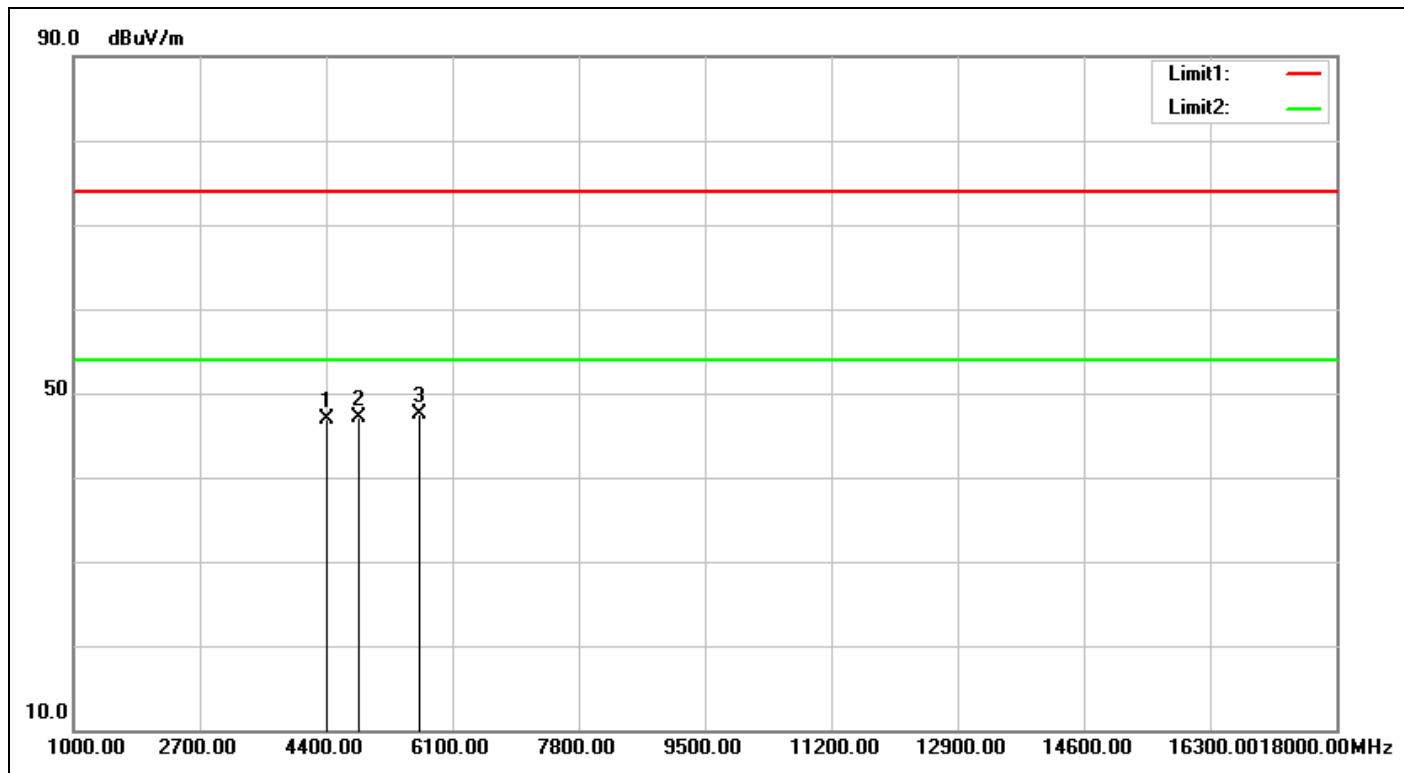
Spurious Emissions, RX Mode, 1-18G



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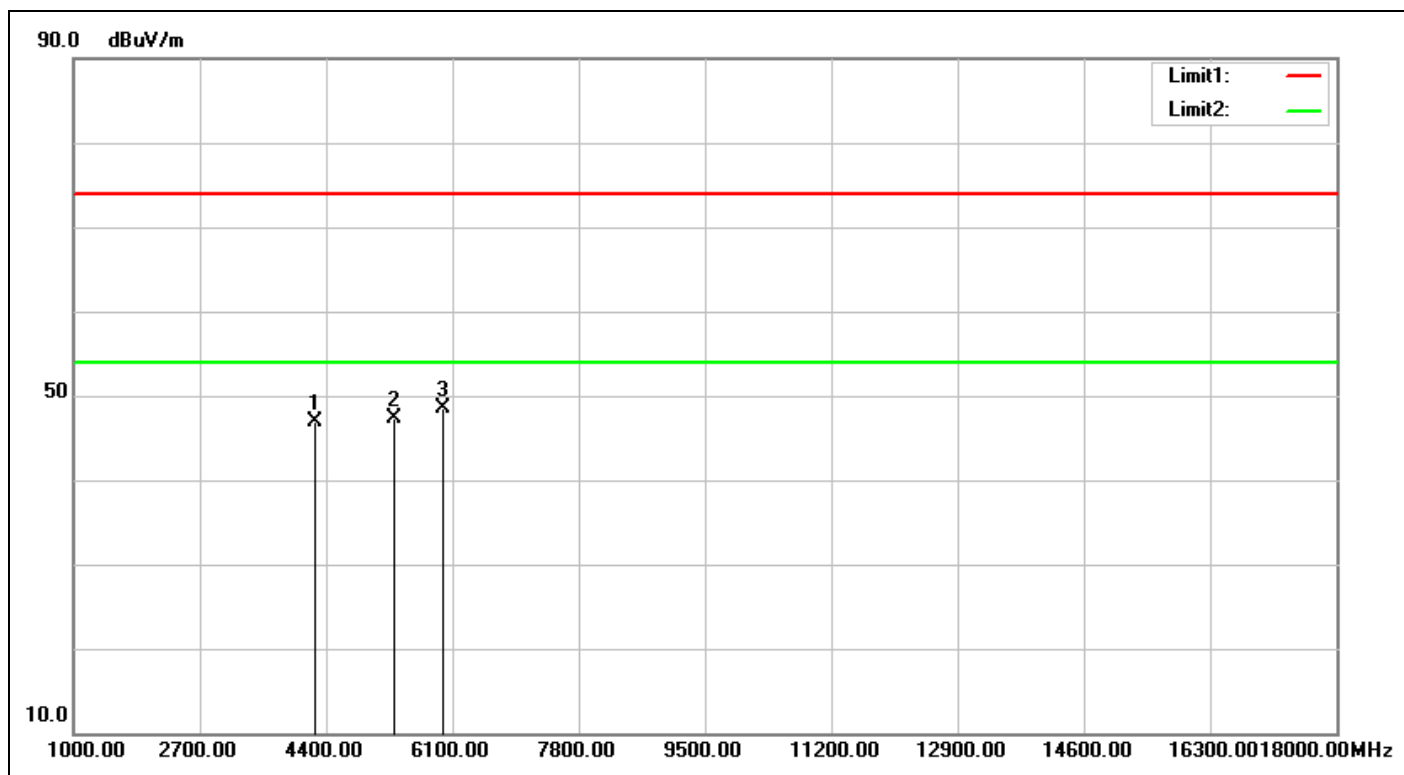
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 16:37:11
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4400.000	-4.39	51.25	46.86	74.00	-27.14	peak	100	187	
2	4842.000	-3.47	50.52	47.05	74.00	-26.95	peak	100	232	
3	5658.000	0.18	47.33	47.51	74.00	-26.49	peak	100	211	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 16:38:03
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4247.000	-4.96	51.77	46.81	74.00	-27.19	peak	100	353	
2	5318.000	-1.70	49.09	47.39	74.00	-26.61	peak	100	63	
3	5981.000	2.23	46.18	48.41	74.00	-25.59	peak	100	295	

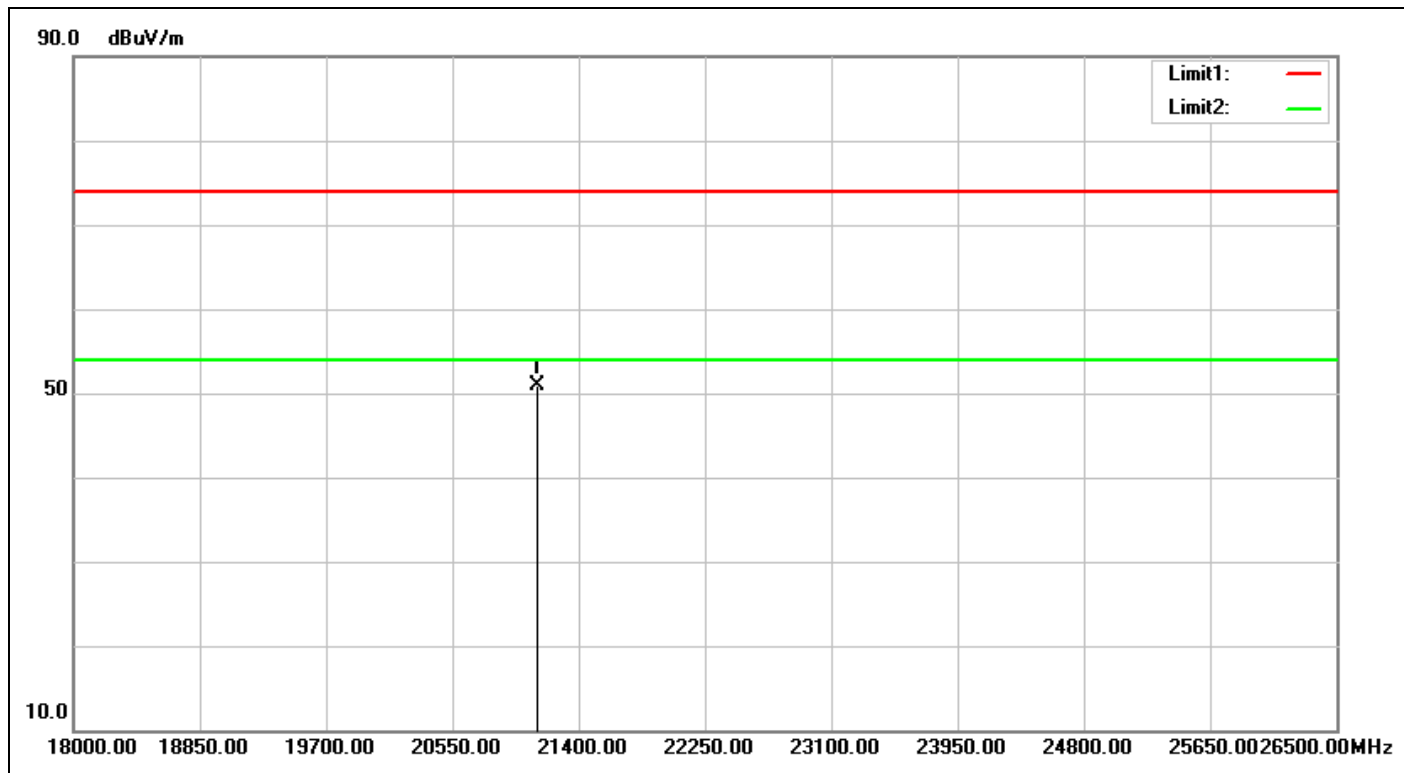
Spurious Emissions, RX Mode, 18-26.5G



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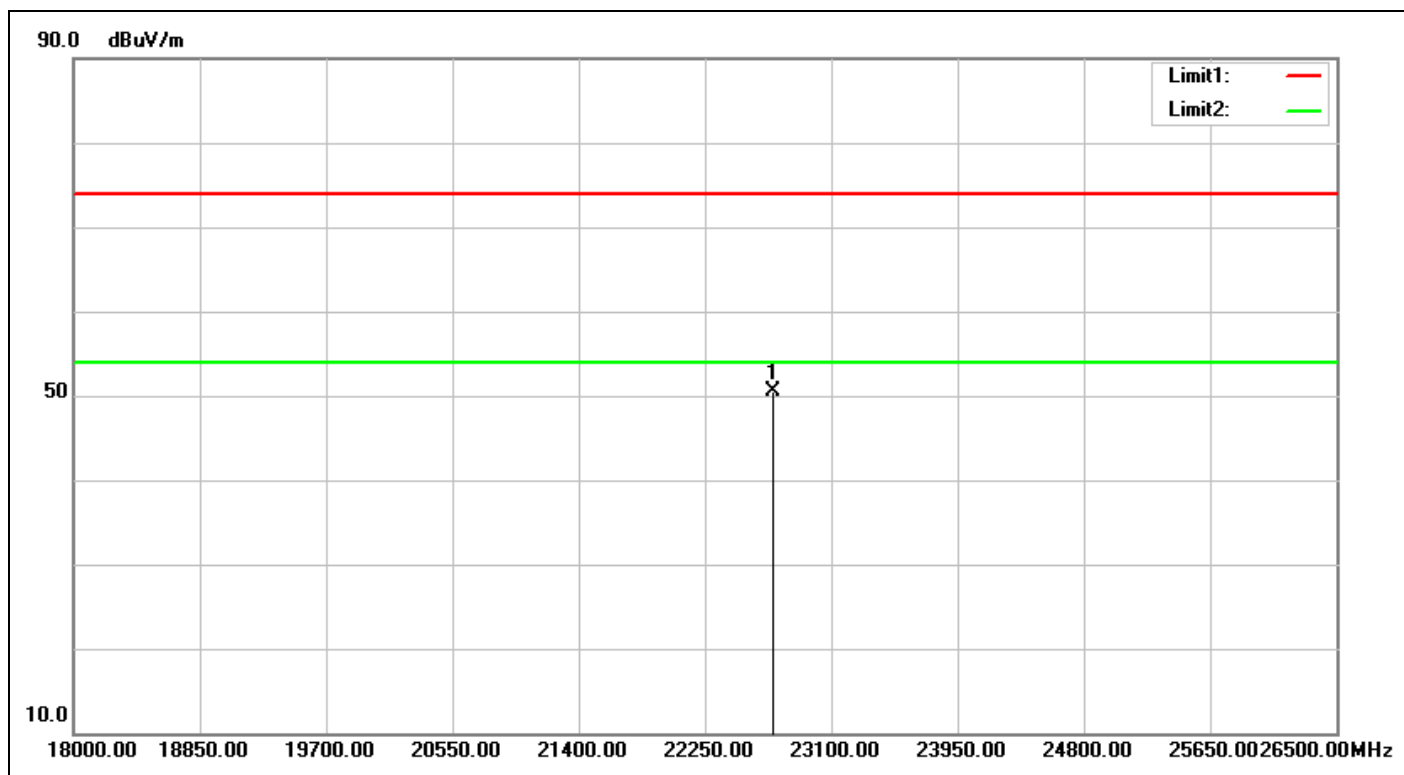
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 18:56:42
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21119.500	32.55	18.35	50.90	74.00	-23.10	peak			



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 18:56:48
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22709.000	32.71	17.87	50.58	74.00	-23.42	peak			

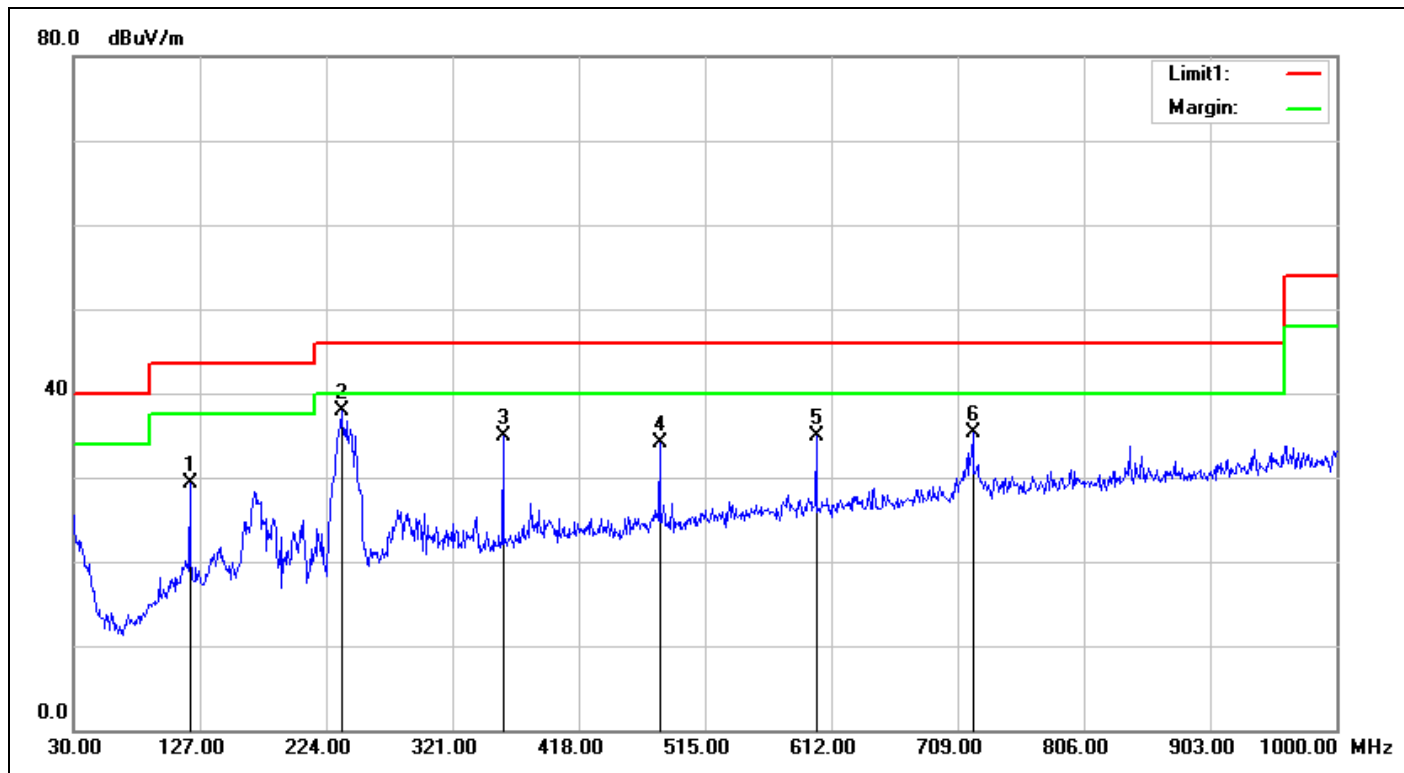
Spurious Emissions, RX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

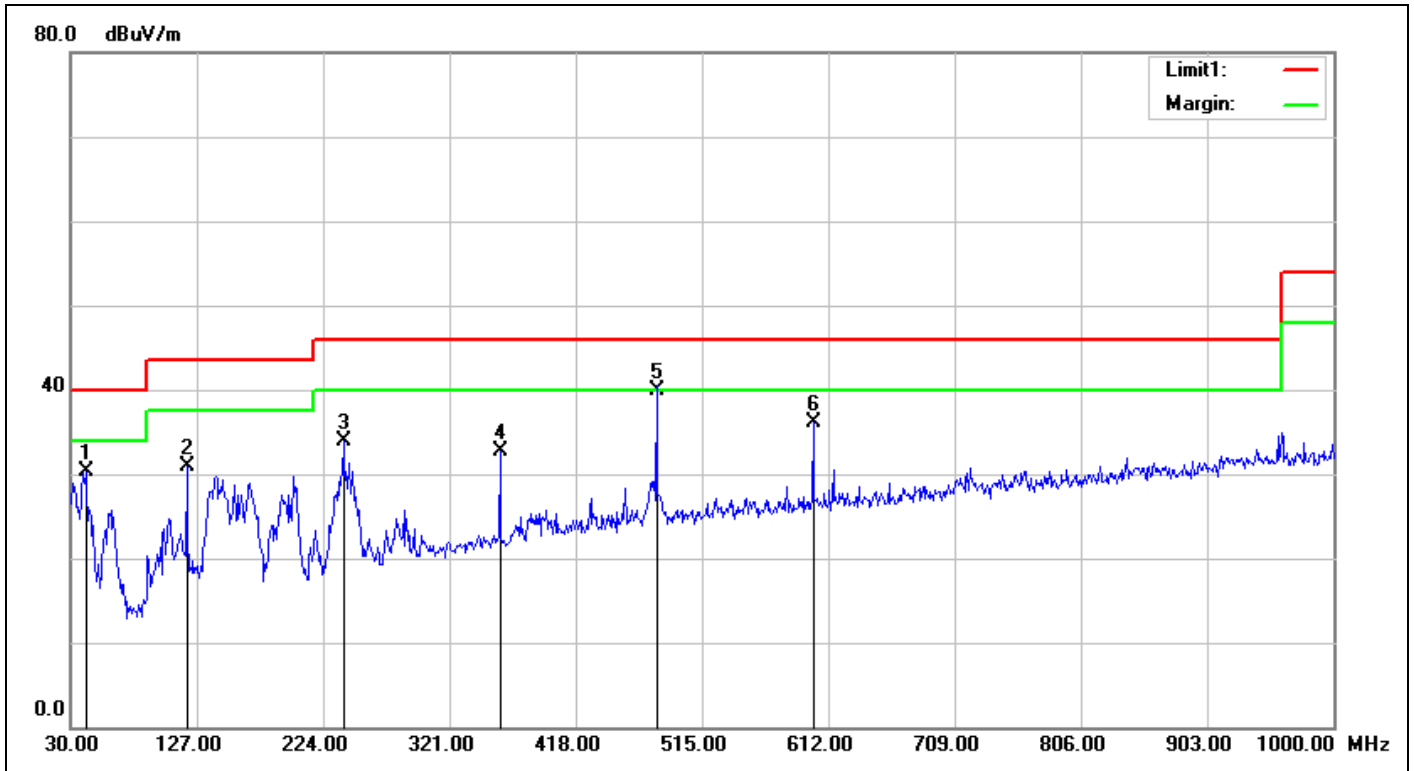
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/5/10 19:19:59
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	119.2400	-7.50	36.73	29.23	43.50	-14.27	QP	100	111	
2	235.6400	-7.15	45.00	37.85	46.00	-8.15	QP	100	91	
3	359.8000	-3.16	38.16	35.00	46.00	-11.00	QP	100	145	
4	480.0800	-1.47	35.65	34.18	46.00	-11.82	QP	100	40	
5	600.3600	0.08	34.76	34.84	46.00	-11.16	QP	100	142	
6	720.6400	1.72	33.66	35.38	46.00	-10.62	QP	100	121	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/5/10 19:20:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	41.6400	-6.82	37.07	30.25	40.00	-9.75	QP	100	133	
2	119.2400	-7.50	38.49	30.99	43.50	-12.51	QP	100	286	
3	239.5200	-6.85	40.70	33.85	46.00	-12.15	QP	100	166	
4	359.8000	-3.16	35.82	32.66	46.00	-13.34	QP	100	140	
5	480.0800	-1.47	41.47	40.00	46.00	-6.00	QP	100	163	
6	600.3600	0.08	35.95	36.03	46.00	-9.97	QP	100	266	

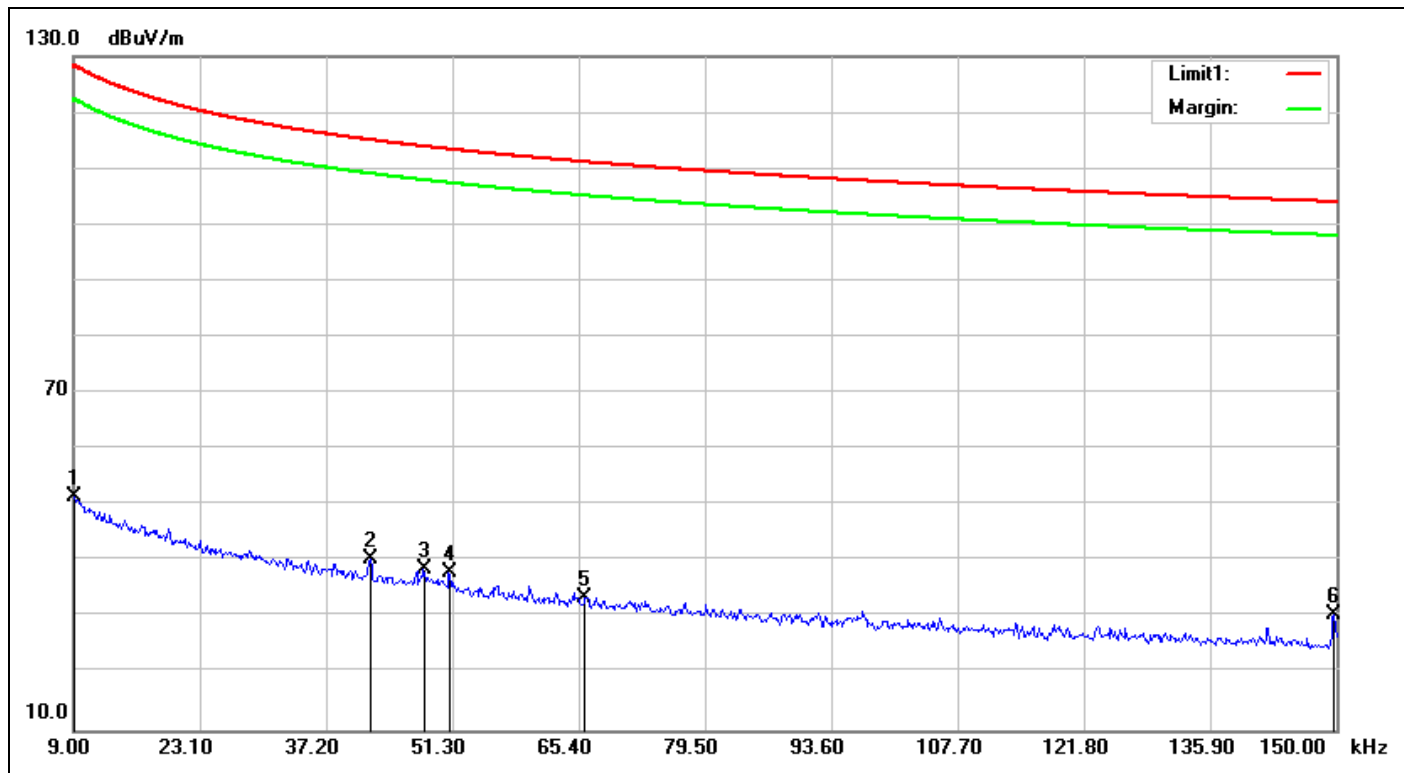
Spurious Emissions, RX Mode, 9k-30M



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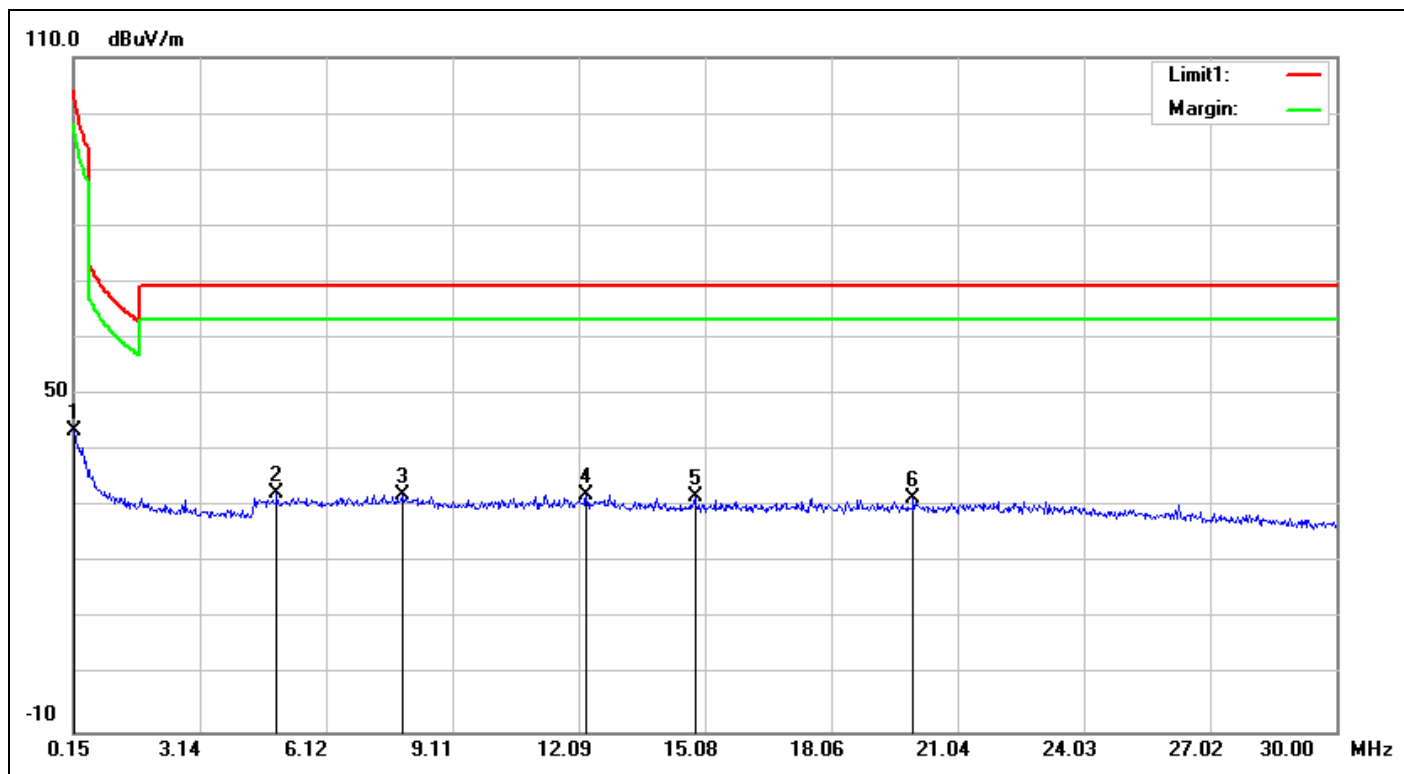
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Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/5/10 19:27:32
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%):	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0090	19.53	32.09	51.62	128.50	-76.88	QP	100	347	
2	0.0421	19.71	20.61	40.32	115.11	-74.79	QP	100	252	
3	0.0481	19.50	19.07	38.57	113.95	-75.38	QP	100	209	
4	0.0509	19.42	18.57	37.99	113.46	-75.47	QP	100	104	
5	0.0661	19.33	14.31	33.64	111.19	-77.55	QP	100	179	
6	0.1497	19.08	11.62	30.70	104.09	-73.39	QP	100	64	



Service No.:	114077170	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/5/10 19:31:06
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 3.3V
Product:	IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module	Temp.(°C)/Hum.(%)	23(°C)/65%
Model No.:	WFU033-LGA	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:	Power Setting 1F		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	19.06	24.63	43.69	102.50	-58.81	QP	100	104	
2	4.9559	19.73	12.83	32.56	69.50	-36.94	QP	100	292	
3	7.9110	20.02	12.26	32.28	69.50	-37.22	QP	100	269	
4	12.2691	20.62	11.55	32.17	69.50	-37.33	QP	100	110	
5	14.8362	21.07	10.92	31.99	69.50	-37.51	QP	100	141	
6	20.0003	21.99	9.45	31.44	69.50	-38.06	QP	100	331	

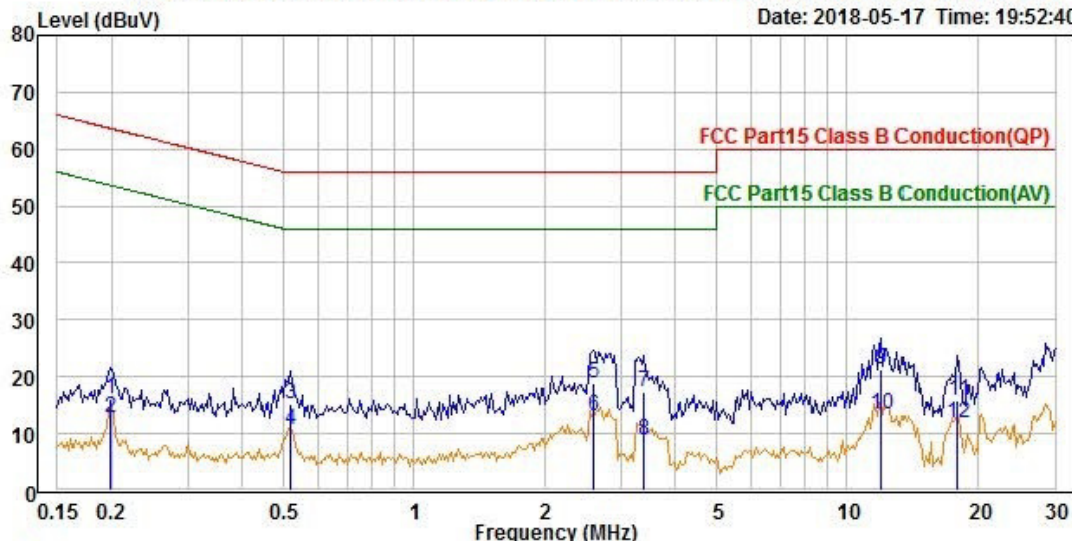
Mains Emissions, 150k-30M combination1



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Date: 2018-05-17 Time: 19:52:40



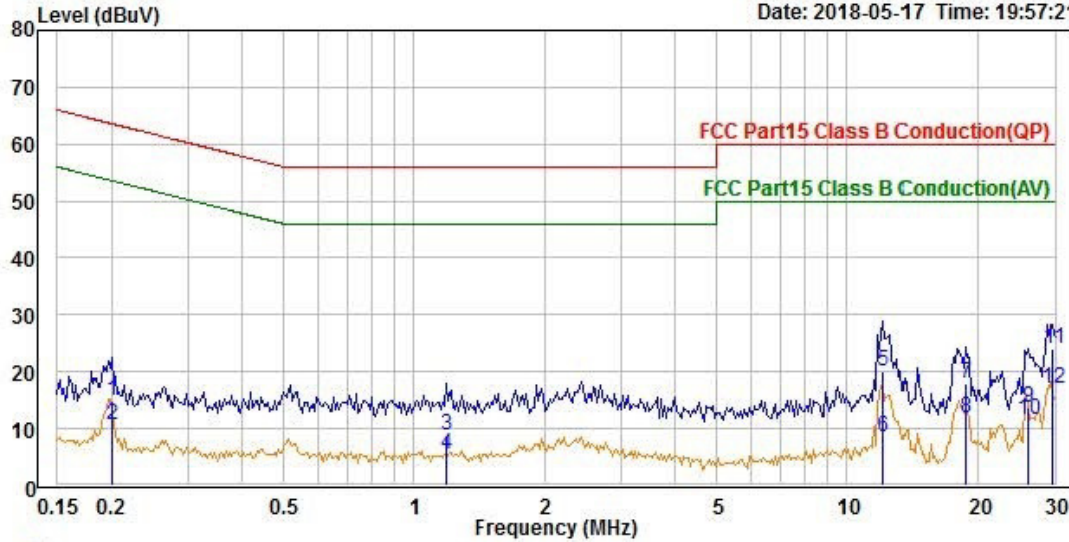
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Colin Lu
Applicant : Hon Hai Precision Industry Co., Ltd.
Product : IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module
Model No. : WFU033-LGA
Test Rating : 3.3Vdc
Tmp/Hum : 23 °C / 49 %
Memo : WIFI link + A1/A2 antenna

	Read Freq	Level dBuV	Factor dB	Level dBuV	Limit Line dBuV	Over Limit dB	Remark
	MHz						
1	0.198	6.45	9.65	16.10	63.69	-47.59	QP
2	0.198	3.26	9.65	12.91	53.69	-40.78	Average
3	0.520	5.64	9.66	15.30	56.00	-40.70	QP
4	0.520	1.11	9.66	10.77	46.00	-35.23	Average
5	2.601	9.11	9.69	18.80	56.00	-37.20	QP
6	2.601	3.53	9.69	13.22	46.00	-32.78	Average
7	3.401	7.74	9.71	17.45	56.00	-38.55	QP
8	3.401	-0.82	9.71	8.89	46.00	-37.11	Average
9	12.021	11.47	9.80	21.27	60.00	-38.73	QP
10	12.021	3.60	9.80	13.40	50.00	-36.60	Average
11	17.891	6.12	9.81	15.93	60.00	-44.07	QP
12	17.891	2.15	9.81	11.96	50.00	-38.04	Average

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Date: 2018-05-17 Time: 19:57:21



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Colin Lu
Applicant : Hon Hai Precision Industry Co., Ltd.
Product : IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module
Model No. : WFU033-LGA
Test Rating : 3.3Vdc
Tmp/Hum : 23 °C / 49 %
Memo : WIFI link + A1/A2 antenna

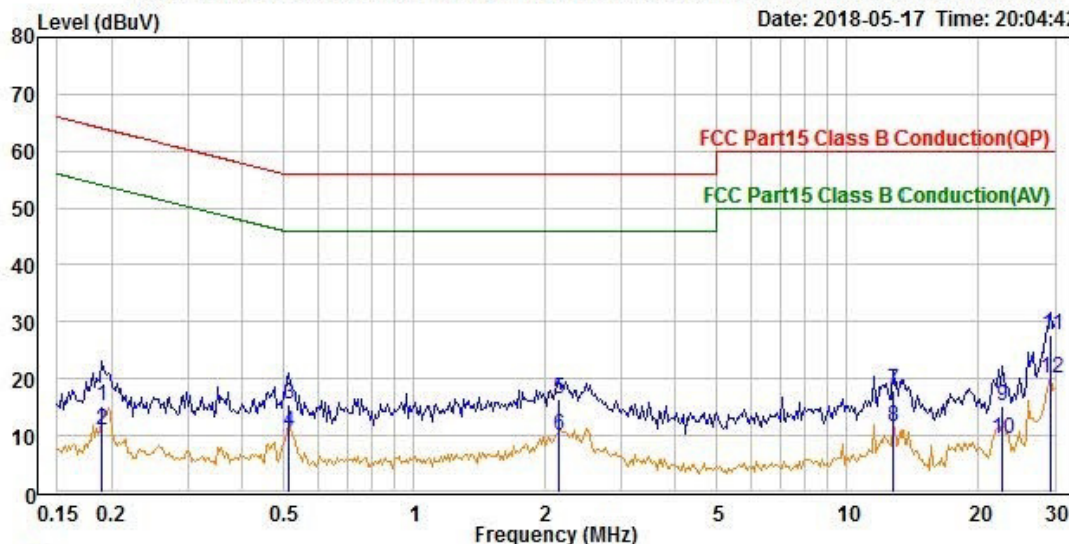
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.200	5.12	9.66	14.78	63.61	-48.83	QP
2	0.200	1.13	9.66	10.79	53.61	-42.82	Average
3	1.186	-0.98	9.67	8.69	56.00	-47.31	QP
4	1.186	-4.21	9.67	5.46	46.00	-40.54	Average
5	12.141	10.34	9.83	20.17	60.00	-39.83	QP
6	12.141	-1.25	9.83	8.58	50.00	-41.42	Average
7	18.617	7.98	9.87	17.85	60.00	-42.15	QP
8	18.617	1.90	9.87	11.77	50.00	-38.23	Average
9	26.102	3.90	9.89	13.79	60.00	-46.21	QP
10	26.102	1.73	9.89	11.62	50.00	-38.38	Average
11	29.703	14.21	9.90	24.11	60.00	-35.89	QP
12	29.703	7.12	9.90	17.02	50.00	-32.98	Average



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Date: 2018-05-17 Time: 20:04:42



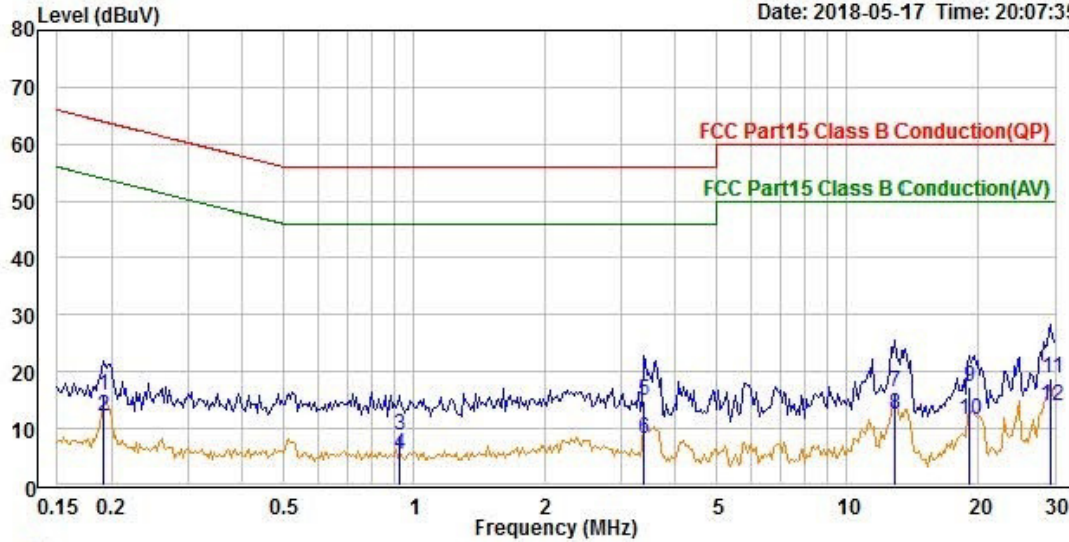
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Colin Lu
Applicant : Hon Hai Precision Industry Co., Ltd.
Product : IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module
Model No. : WFU033-LGA
Test Rating : 3.3Vdc
Tmp/Hum : 23 °C / 49 %
Memo : WIFI link + B1/B2 antenna

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.190	5.44	9.65	15.09	64.02	-48.93	QP
2	0.190	1.36	9.65	11.01	54.02	-43.01	Average
3	0.515	5.86	9.66	15.52	56.00	-40.48	QP
4	0.515	1.05	9.66	10.71	46.00	-35.29	Average
5	2.153	6.81	9.69	16.50	56.00	-39.50	QP
6	2.153	0.38	9.69	10.07	46.00	-35.93	Average
7	12.760	8.12	9.80	17.92	60.00	-42.08	QP
8	12.760	1.67	9.80	11.47	50.00	-38.53	Average
9	22.711	5.51	9.81	15.32	60.00	-44.68	QP
10	22.711	-0.32	9.81	9.49	50.00	-40.51	Average
11	29.409	17.88	9.79	27.67	60.00	-32.33	QP
12	29.409	10.16	9.79	19.95	50.00	-30.05	Average

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Date: 2018-05-17 Time: 20:07:35



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Colin Lu
Applicant : Hon Hai Precision Industry Co., Ltd.
Product : IEEE 802.11 a/b/g/n/ac 2x2 WiFi Module
Model No. : WFU033-LGA
Test Rating : 3.3Vdc
Tmp/Hum : 23 °C / 49 %
Memo : WIFI link + B1/B2 antenna

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.192	6.23	9.66	15.89	63.94	-48.05	QP
2	0.192	2.55	9.66	12.21	53.94	-41.73	Average
3	0.925	-0.99	9.67	8.68	56.00	-47.32	QP
4	0.925	-4.22	9.67	5.45	46.00	-40.55	Average
5	3.401	5.06	9.72	14.78	56.00	-41.22	QP
6	3.401	-1.61	9.72	8.11	46.00	-37.89	Average
7	12.887	6.51	9.83	16.34	60.00	-43.66	QP
8	12.887	2.55	9.83	12.38	50.00	-37.62	Average
9	18.990	7.30	9.89	17.19	60.00	-42.81	QP
10	18.990	1.55	9.89	11.44	50.00	-38.56	Average
11	29.409	8.98	9.90	18.88	60.00	-41.12	QP
12	29.409	4.13	9.90	14.03	50.00	-35.97	Average