

Test Report No.50140126 001

Appendix D: Radiated Spurious Emission Data

(File: 50140126AppendixD)

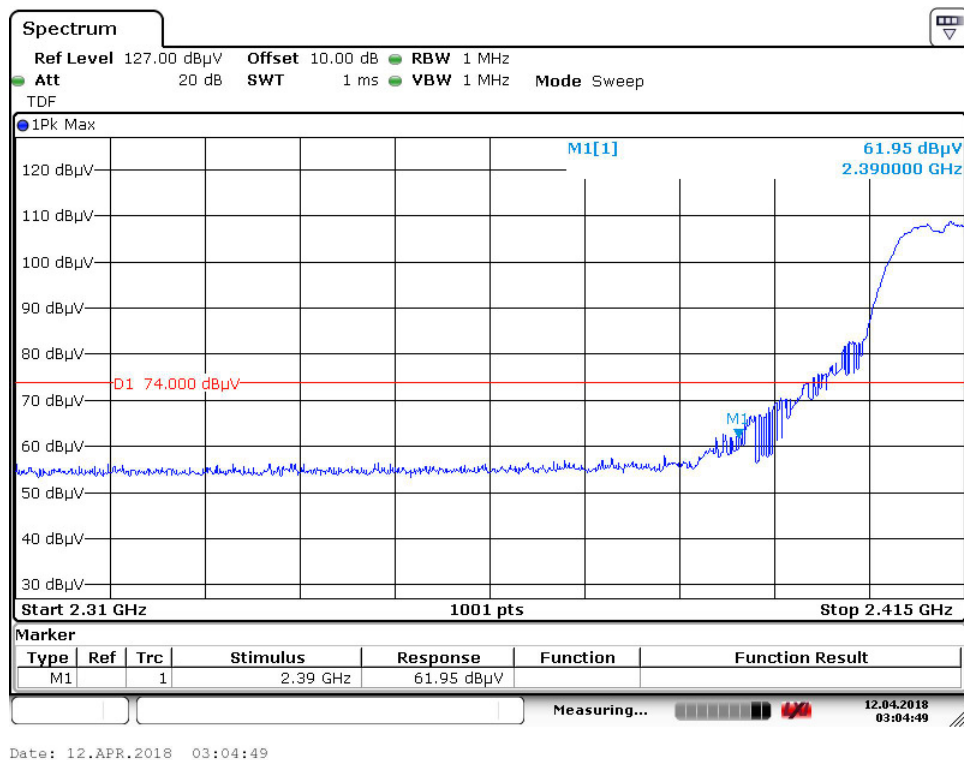
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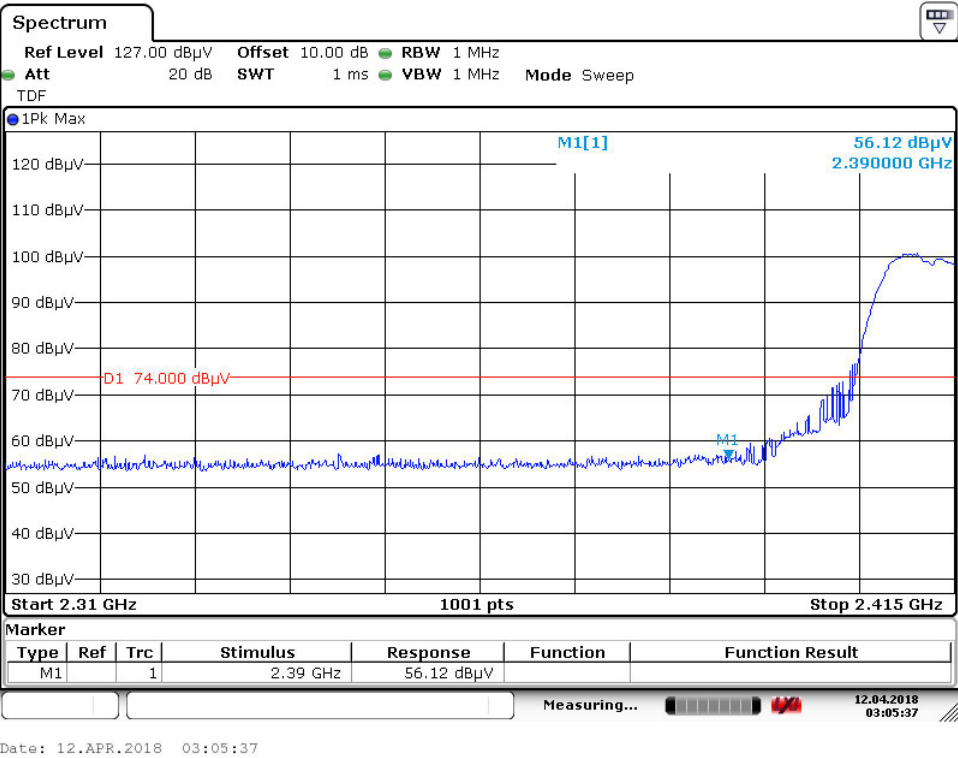
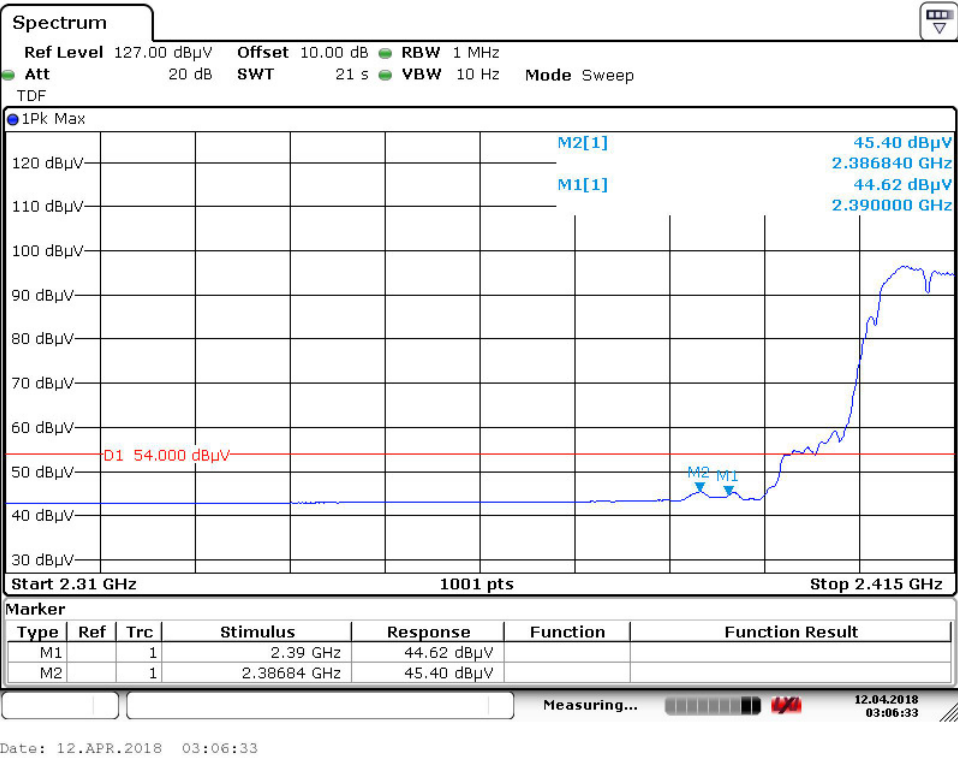
Radiated Emissions, Band Edges, 2.35-2.5G

Radiated Bandedge 11b

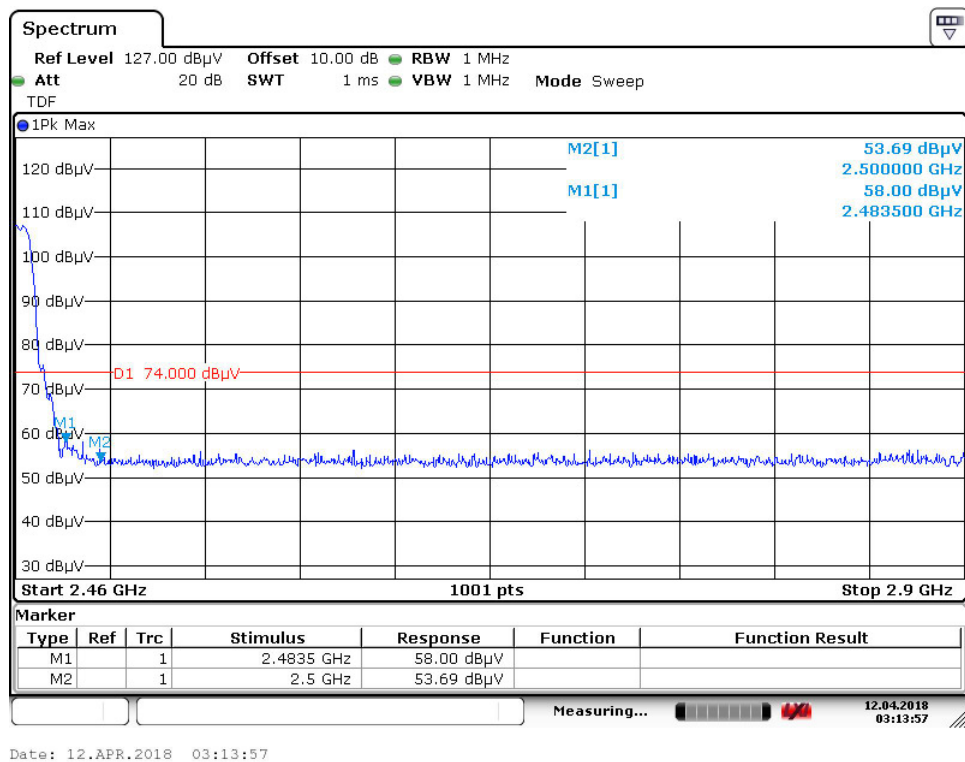
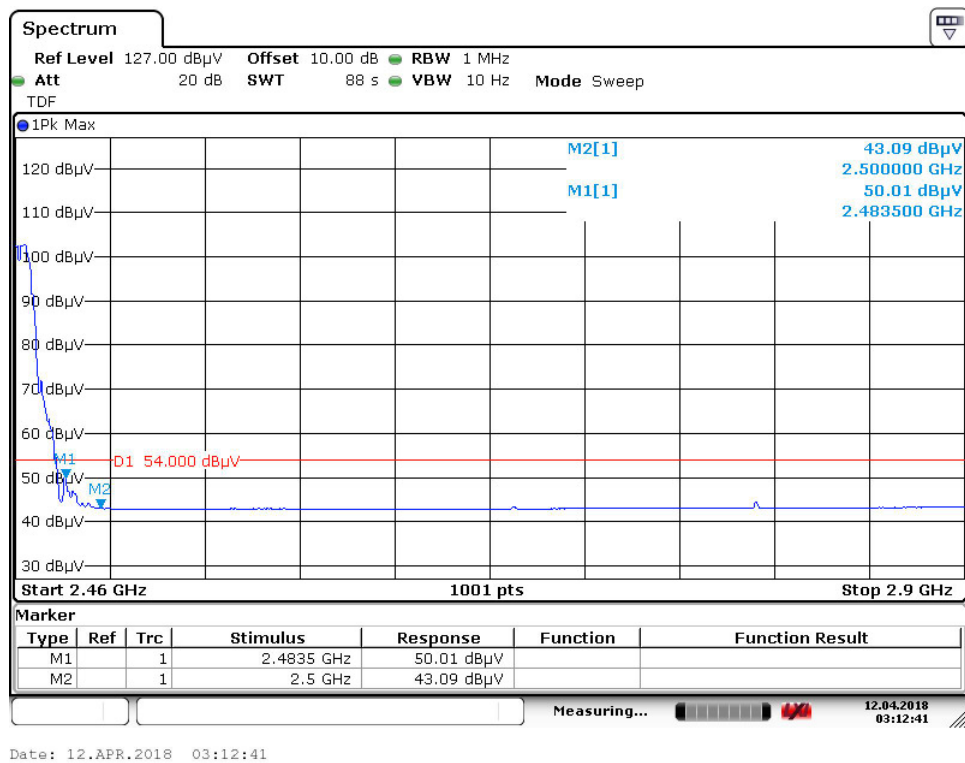
Low Channel (Hor)



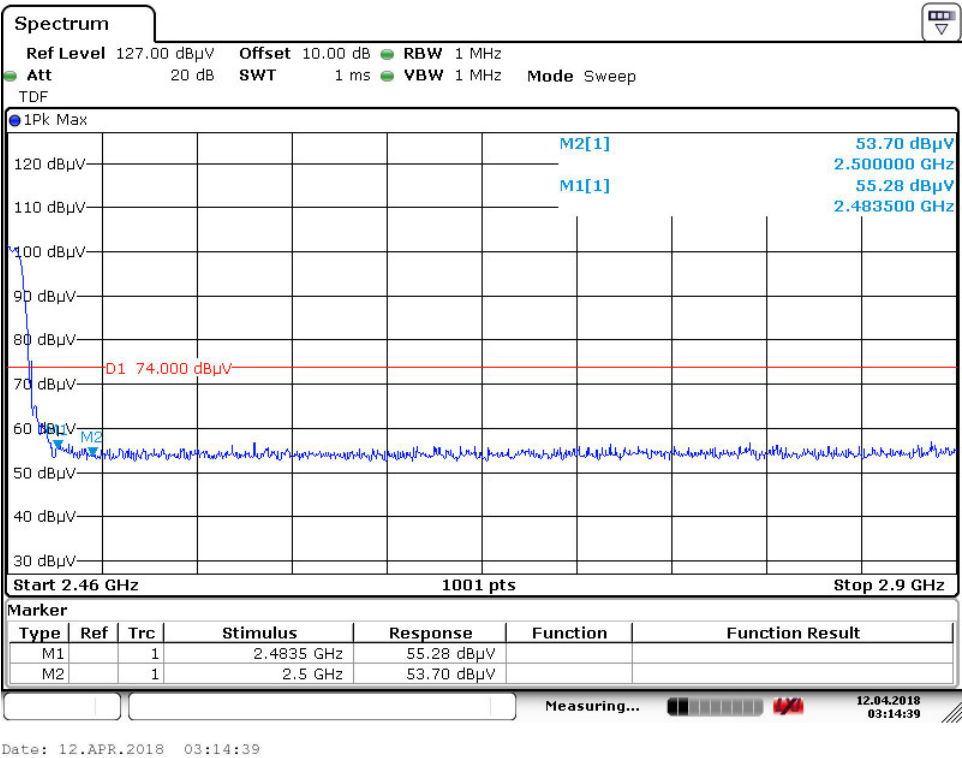
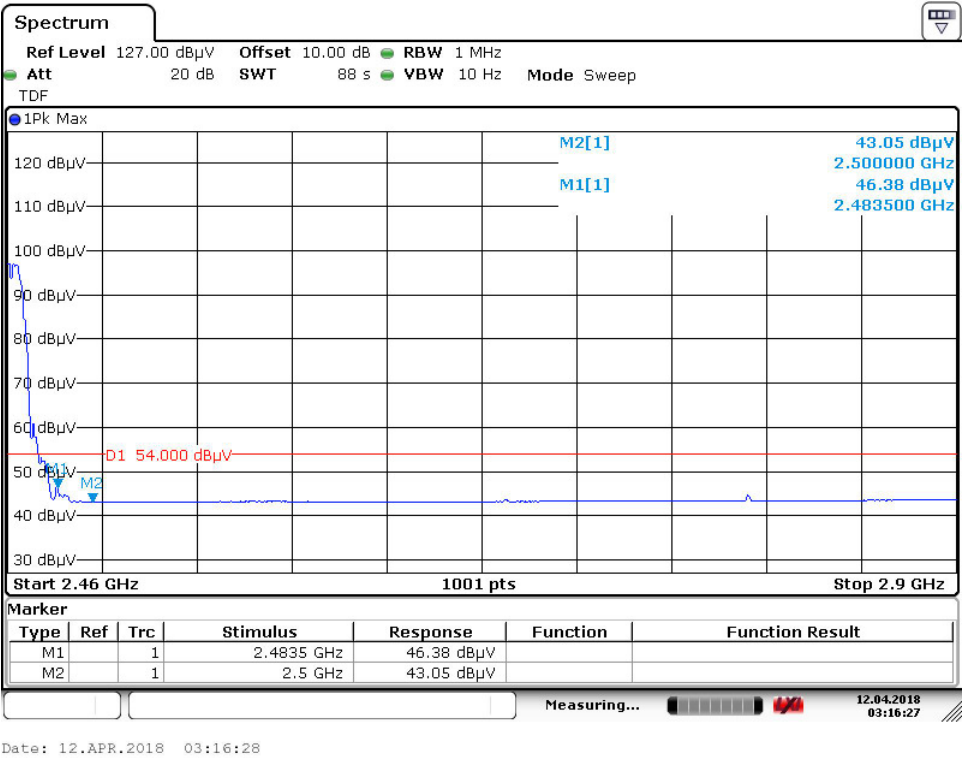
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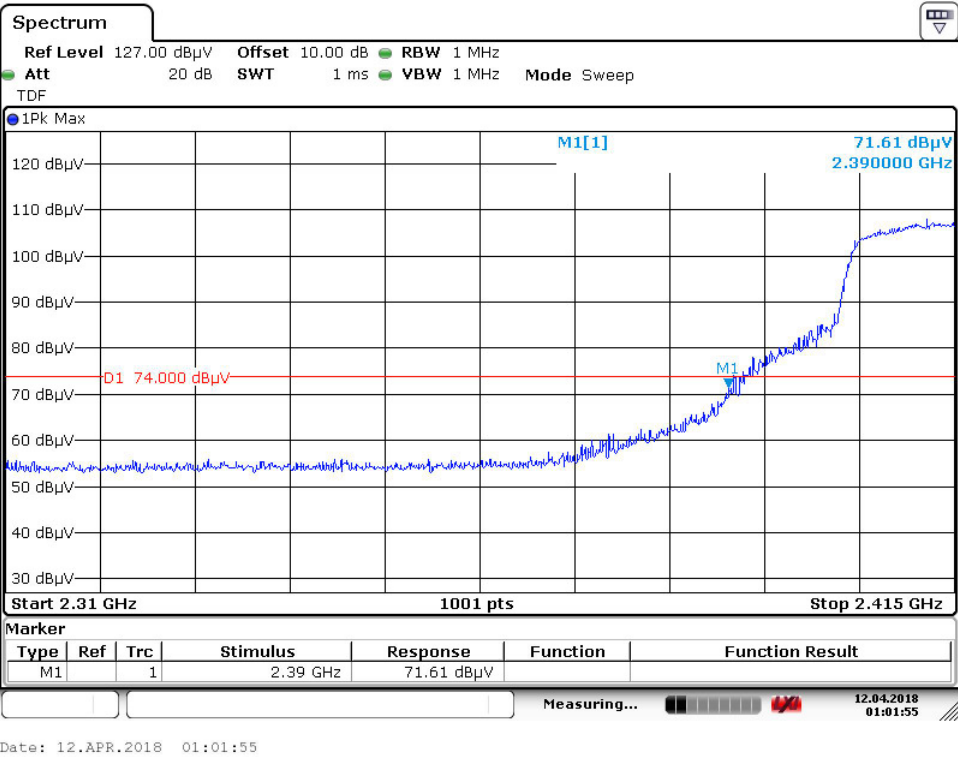
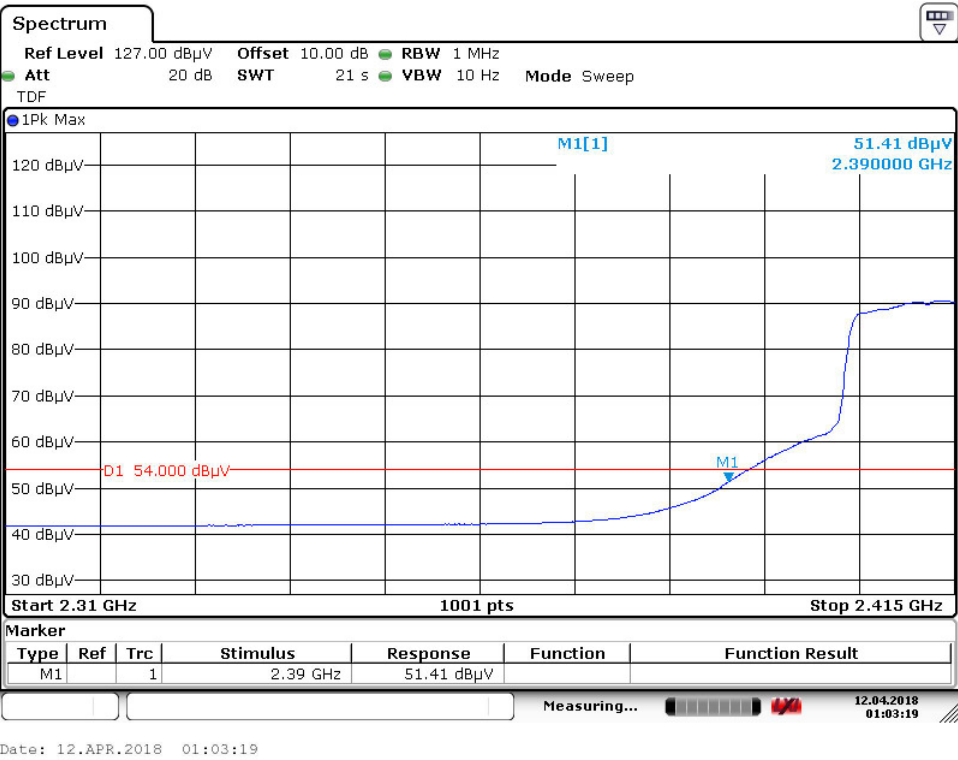
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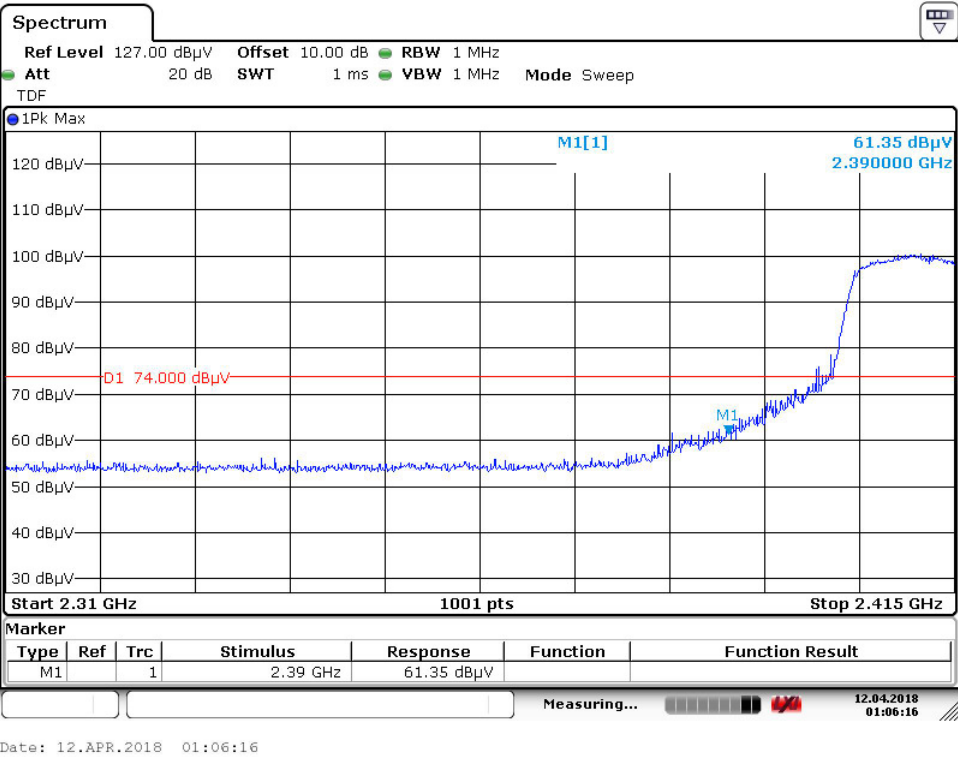
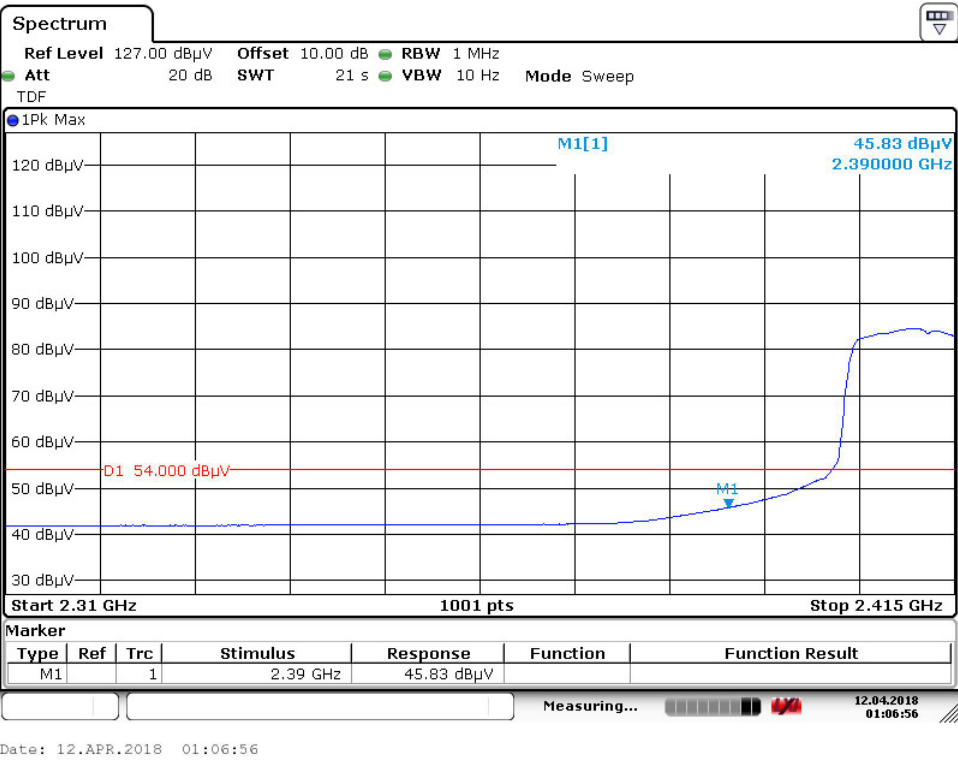
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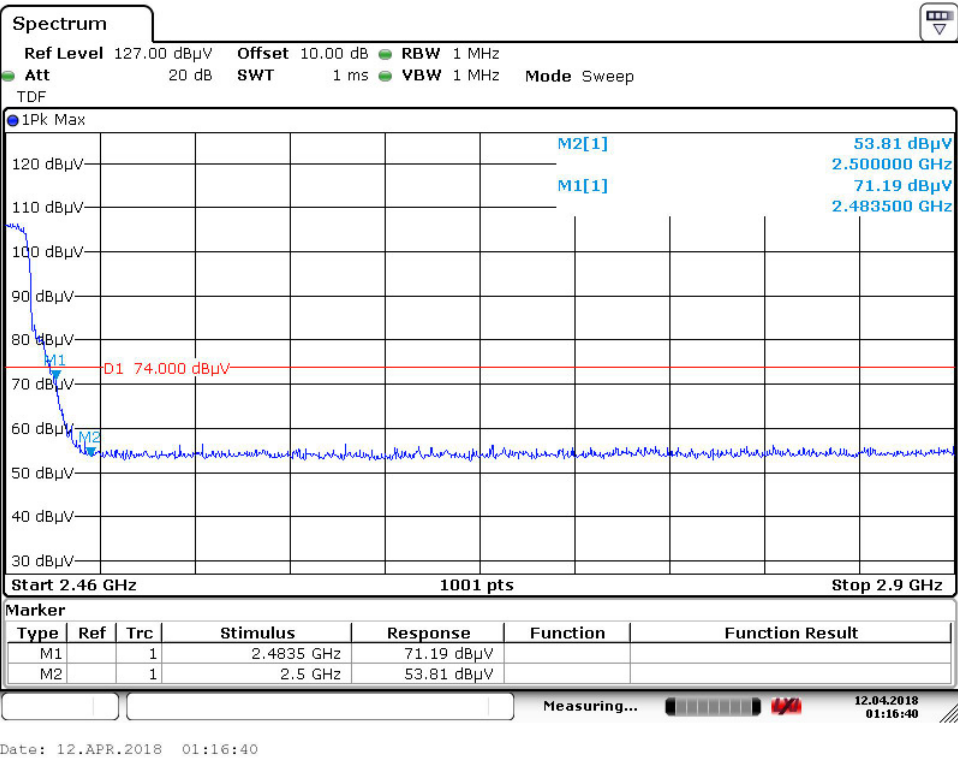
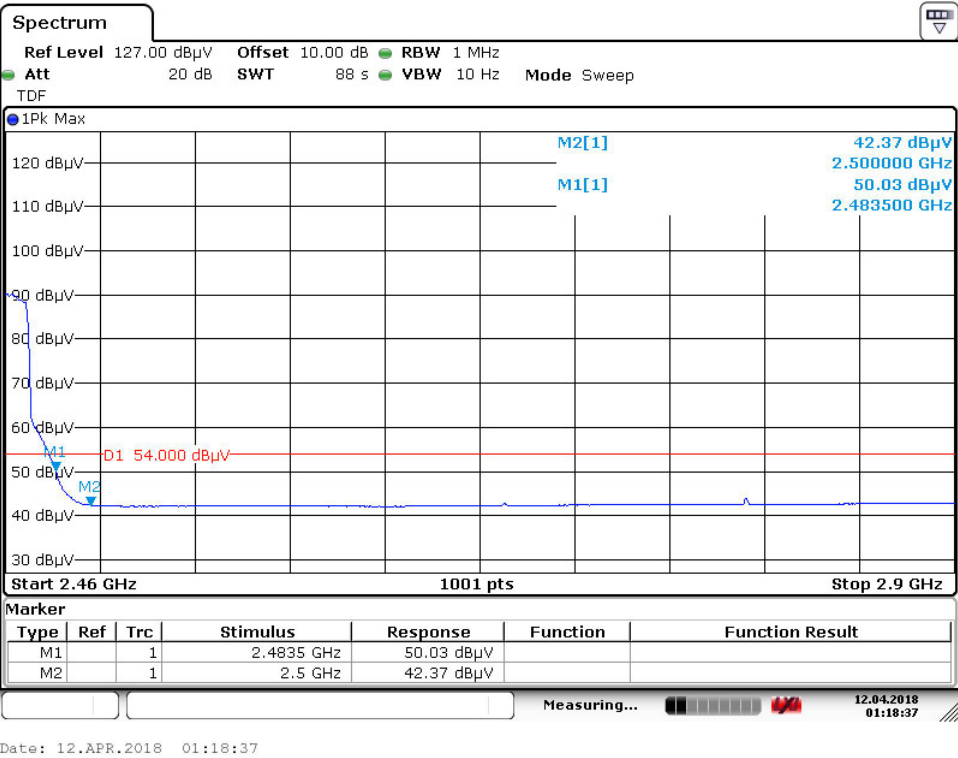
Radiated Bandedge 11g
Low Channel (Hor)



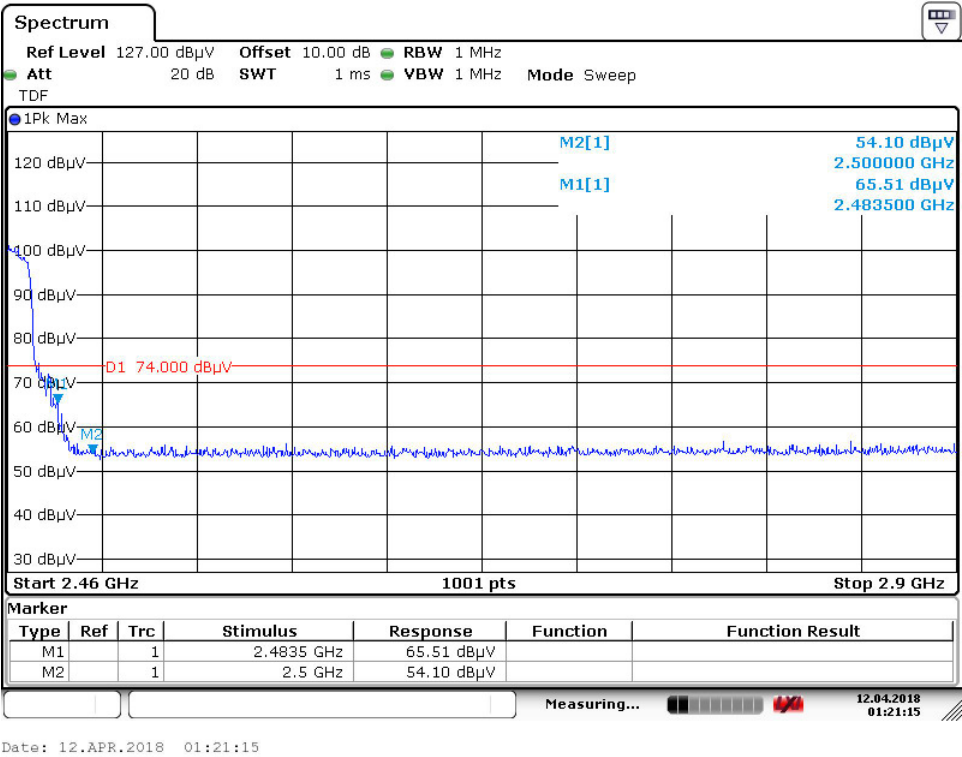
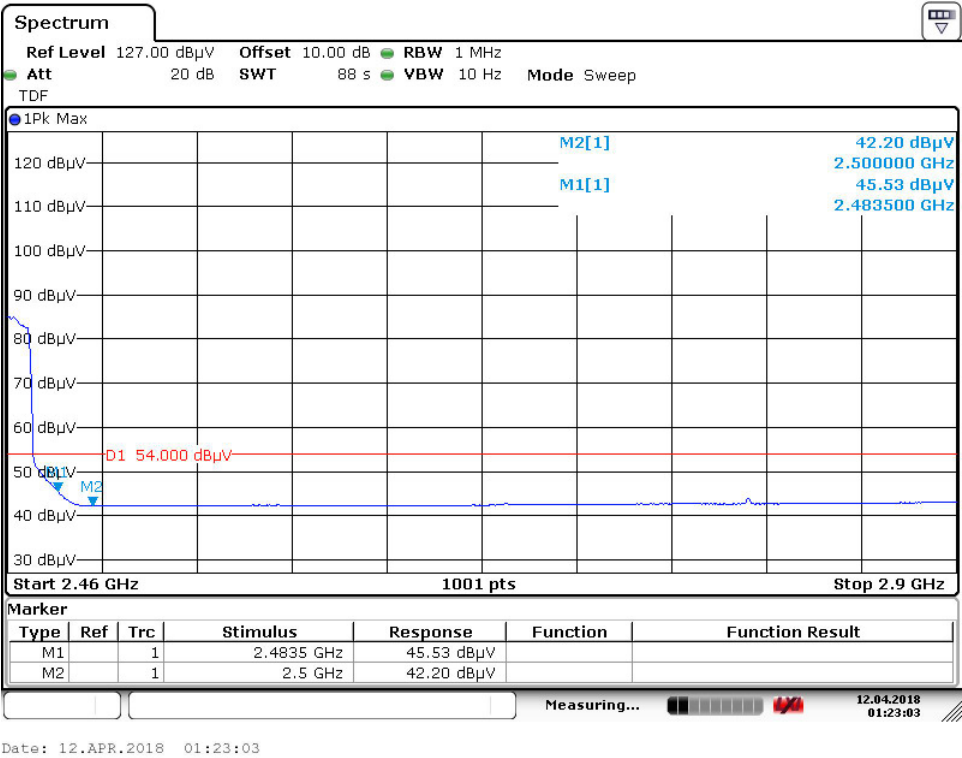
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High Channel (Hor)

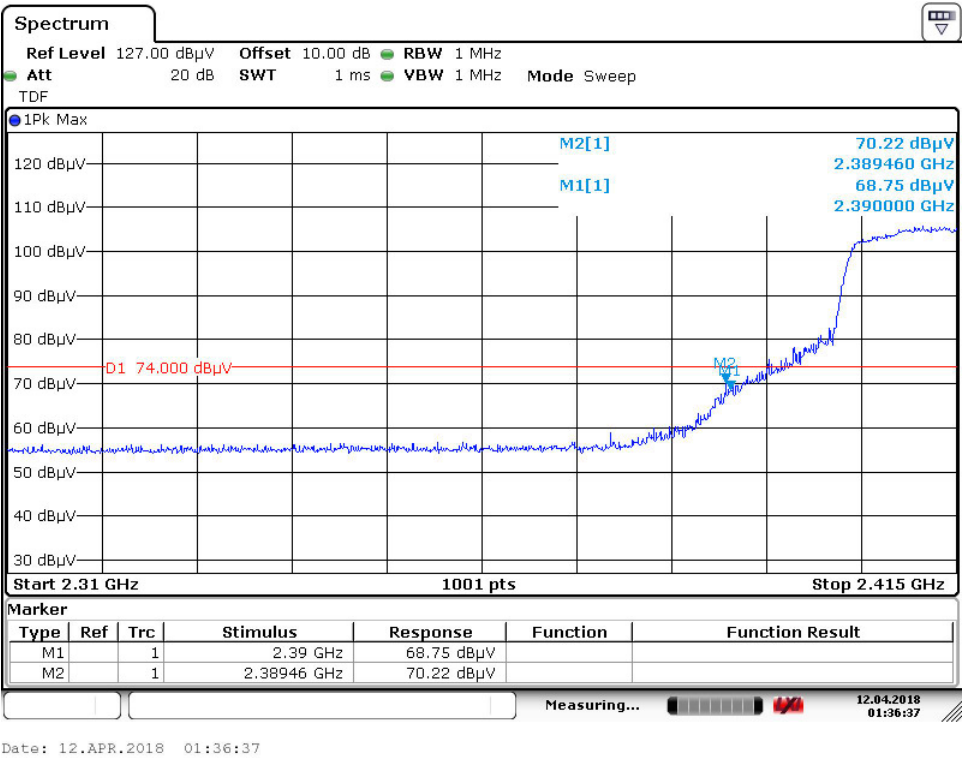
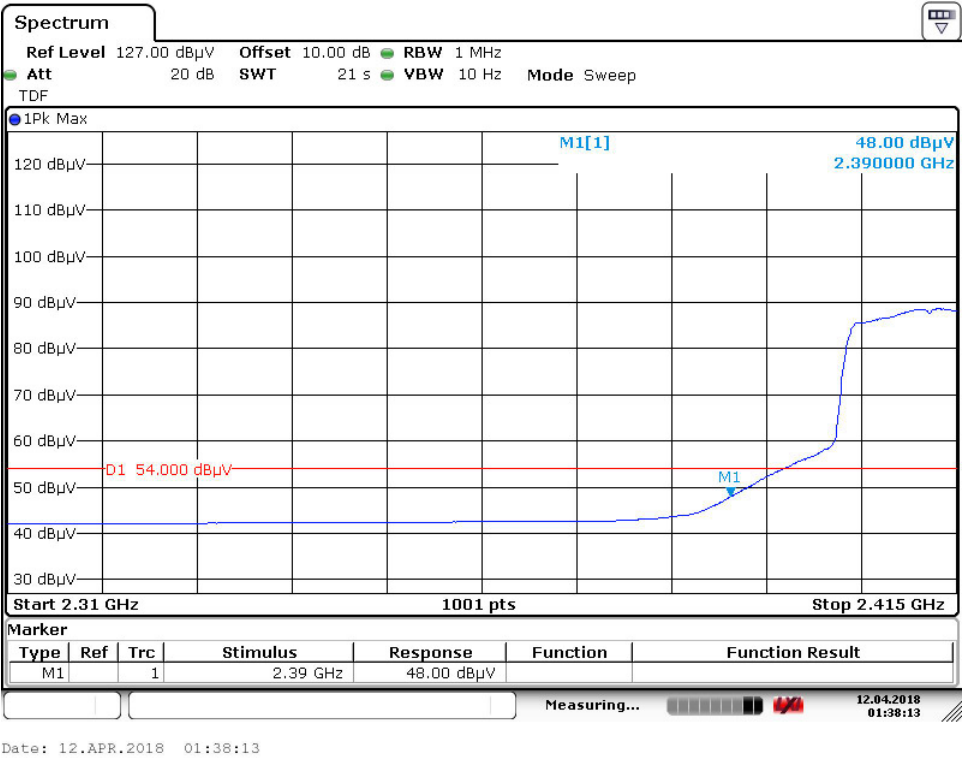


High Channel (Ver)

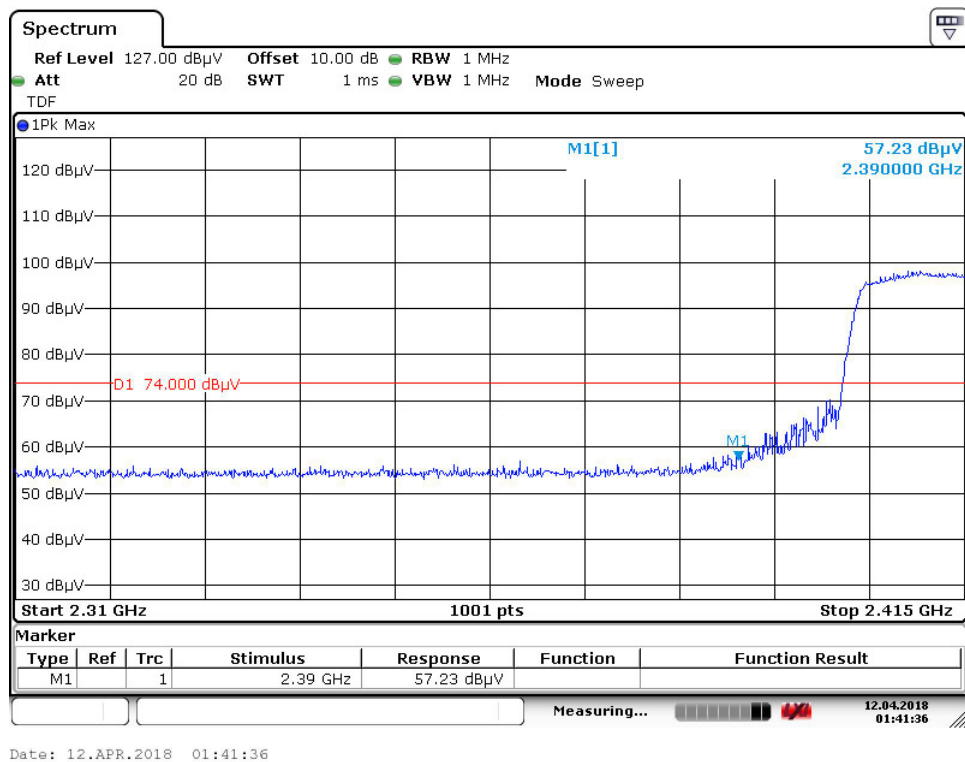
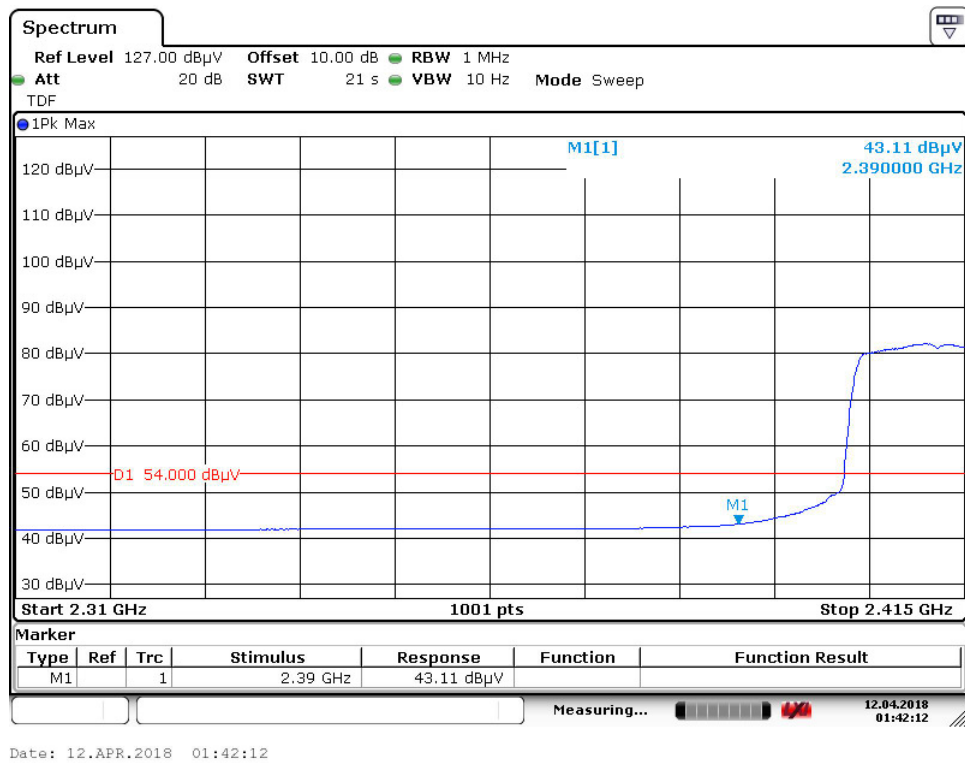


Radiated Bandedge 11n_20M

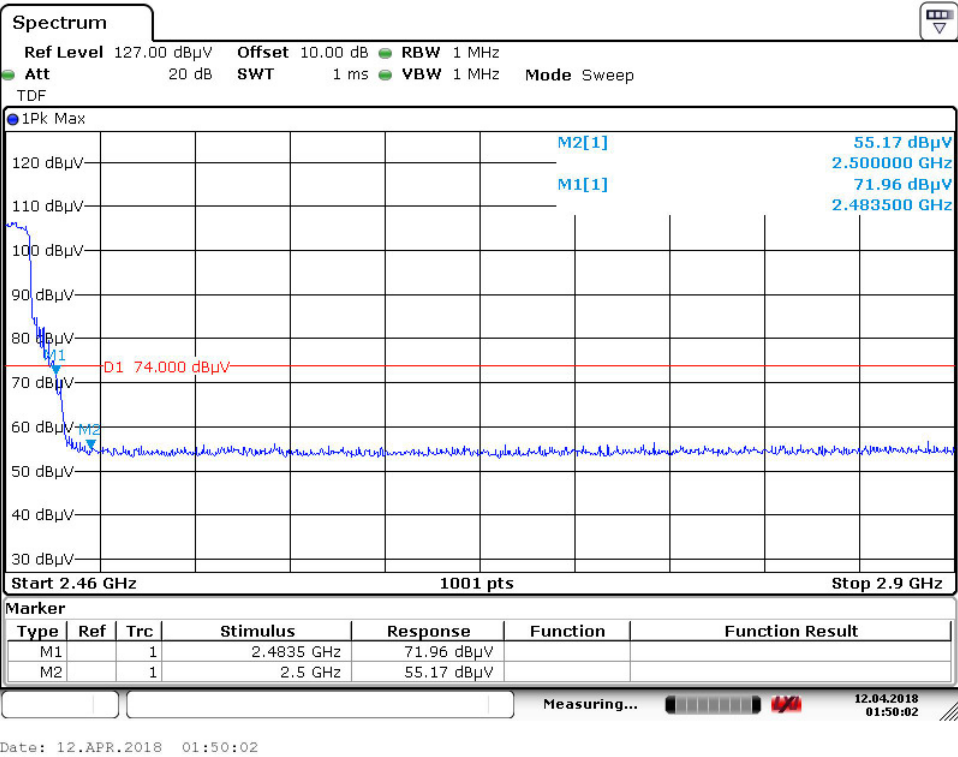
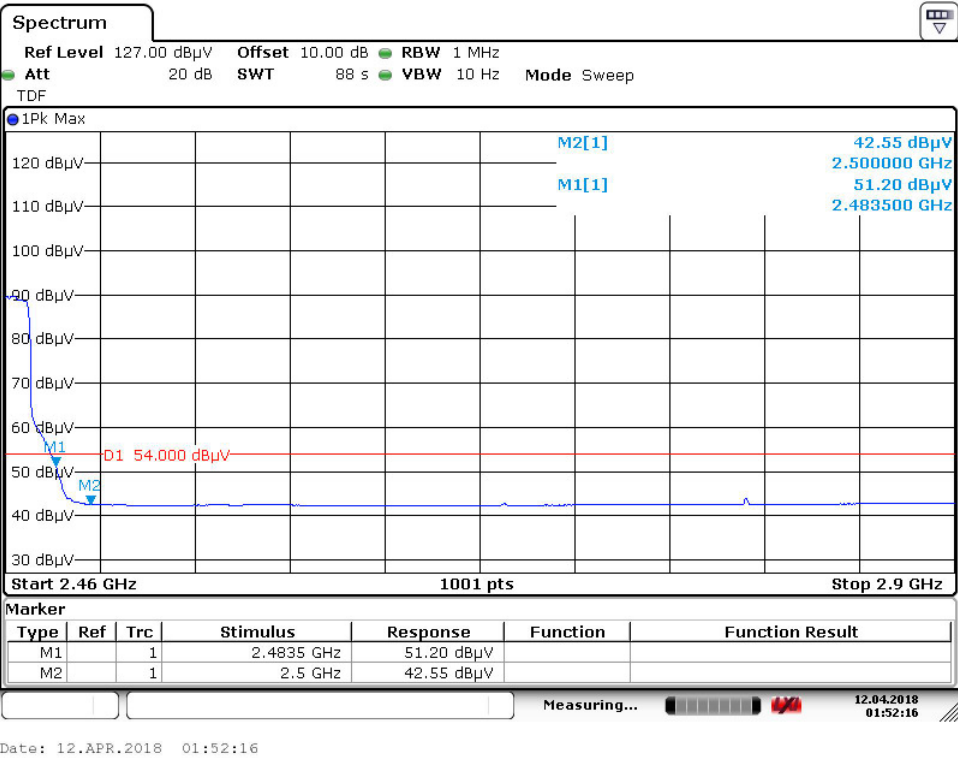
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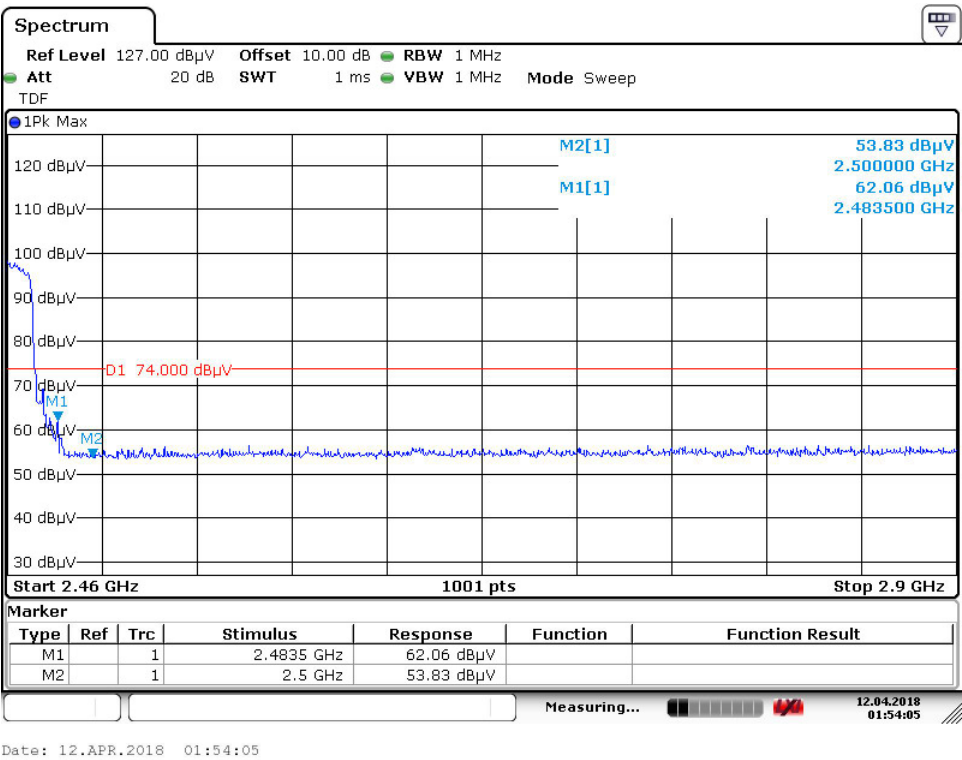
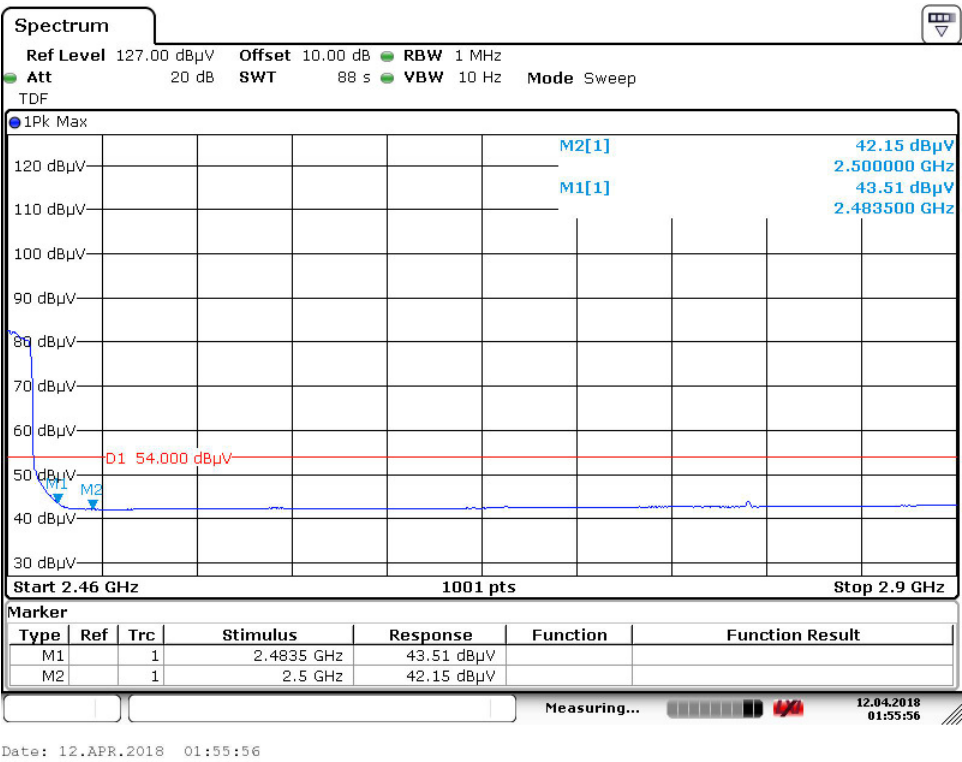
Low Channel (Ver)



High Channel (Hor)

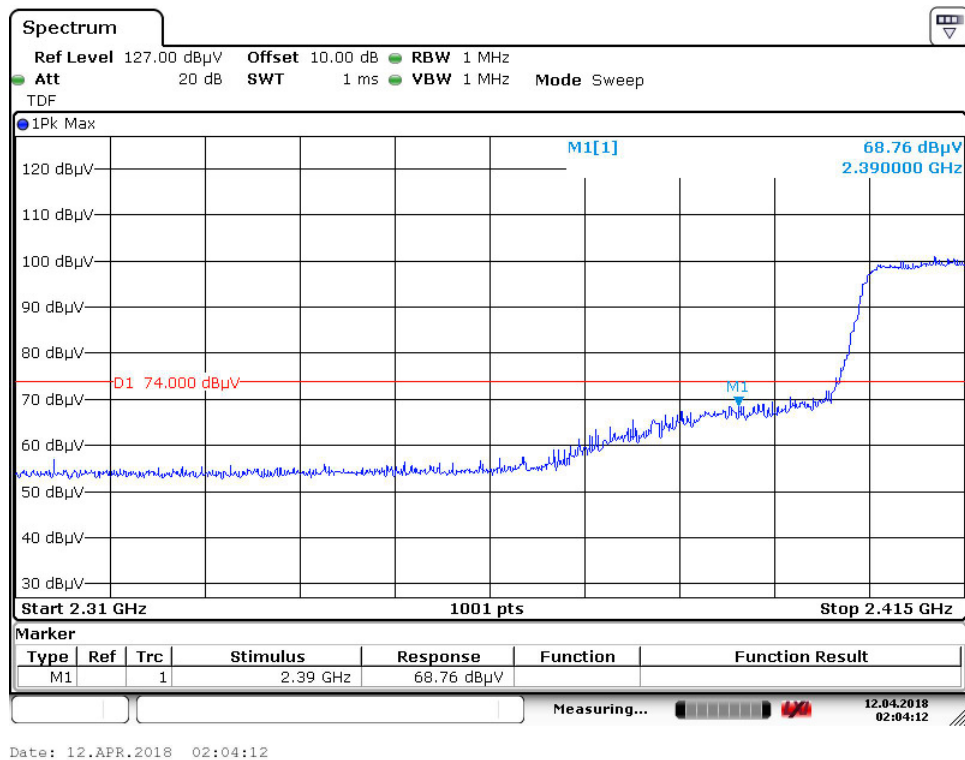
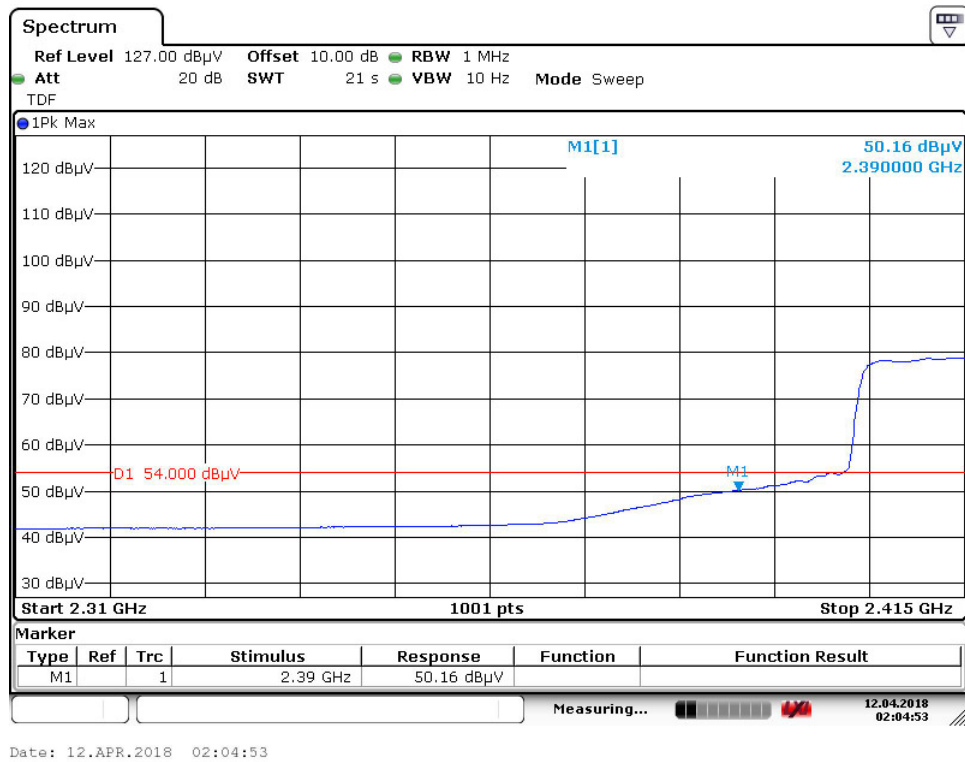


High Channel (Ver)

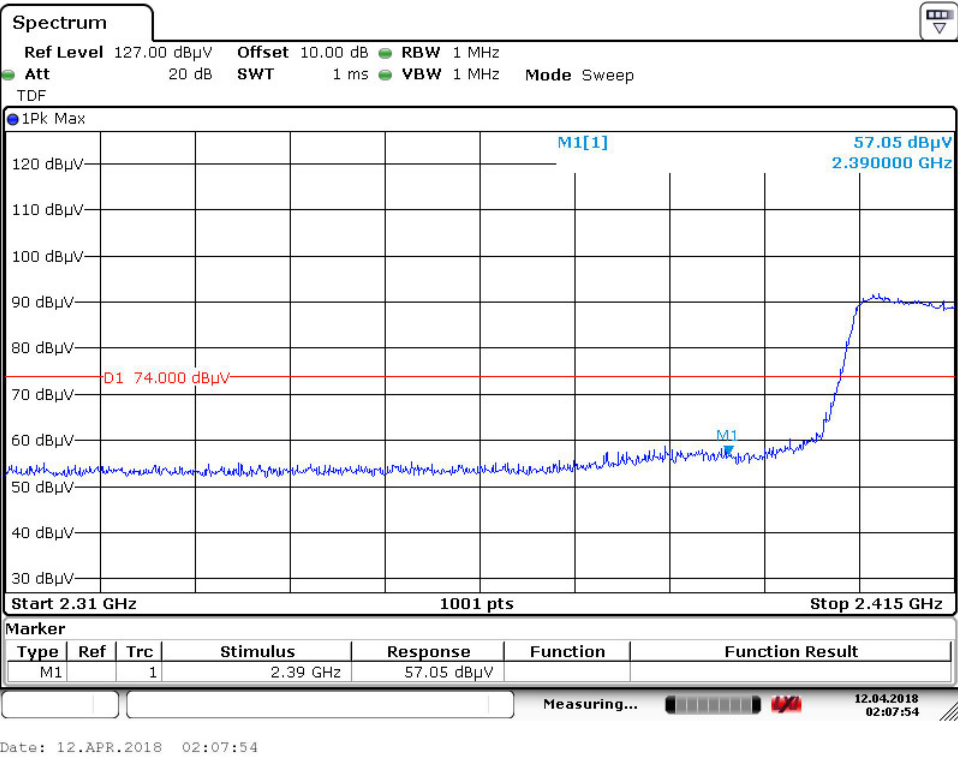
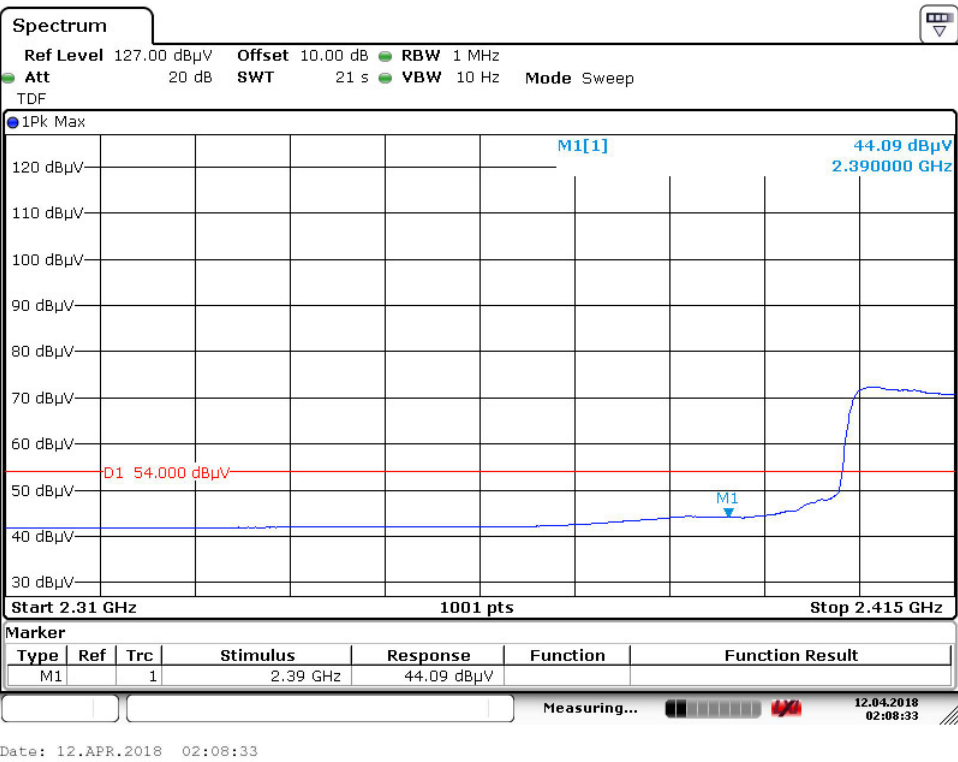


Radiated Bandedge 11n_40M

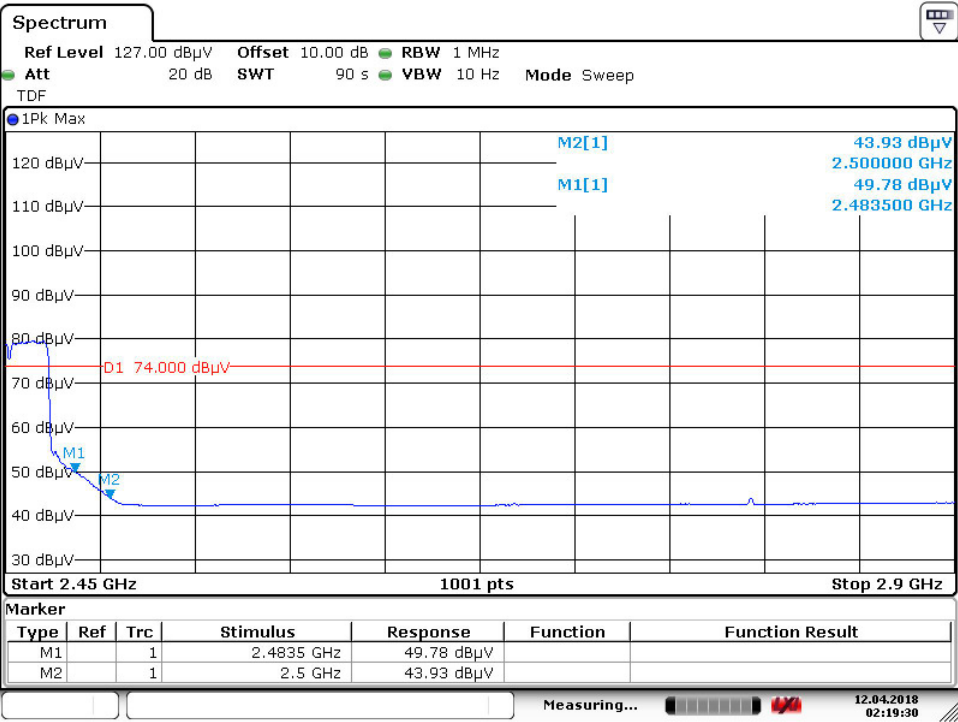
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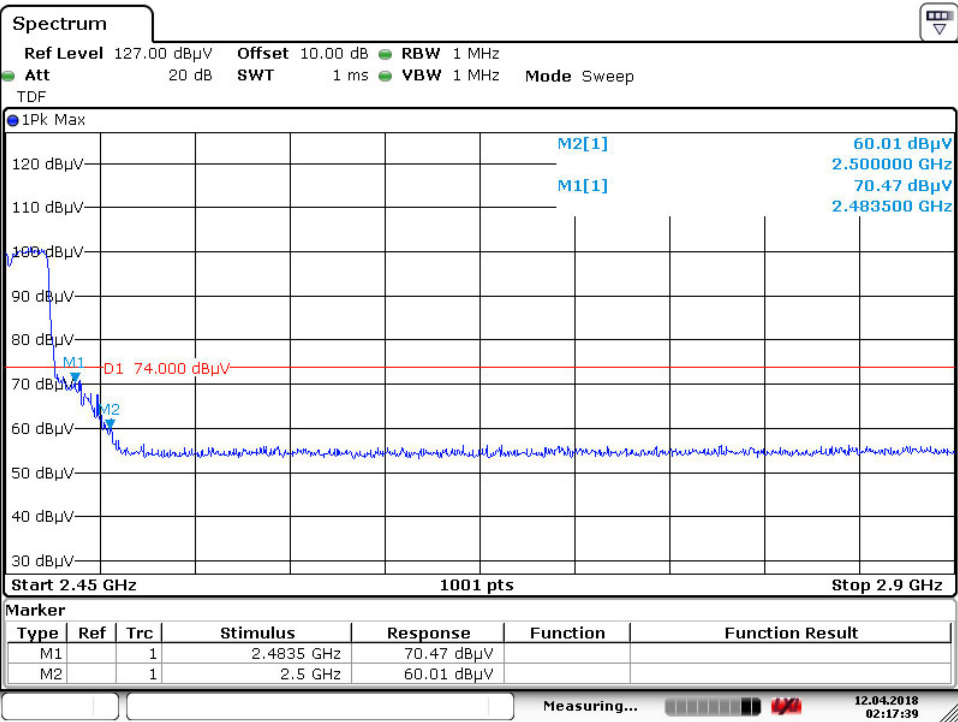
Low Channel (Ver)



High Channel (Hor)

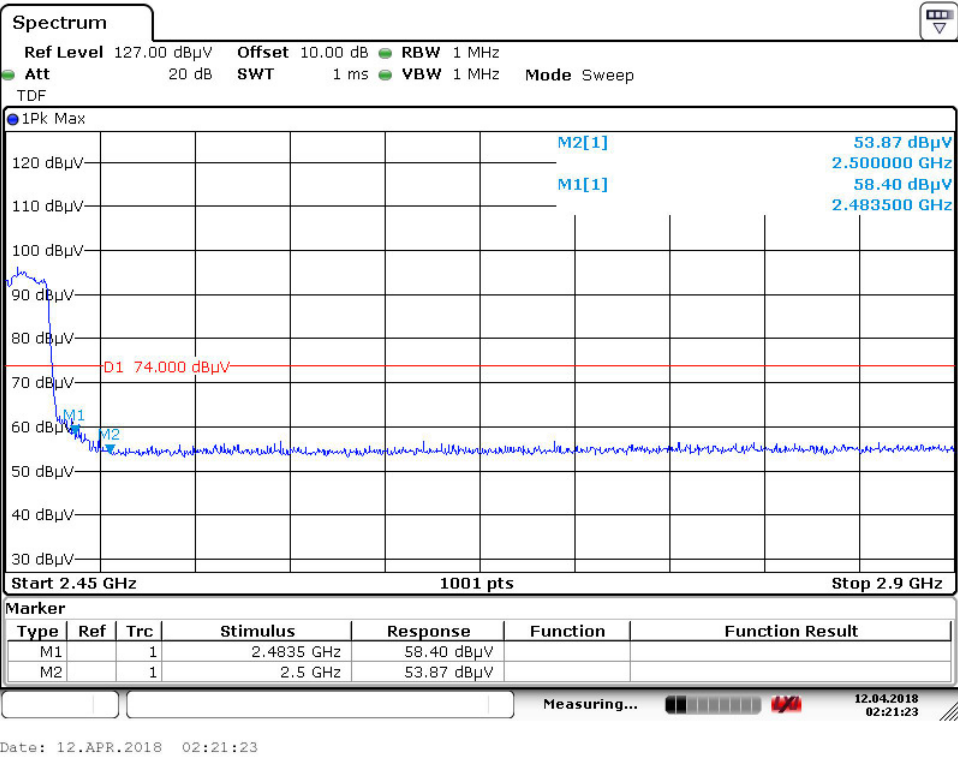
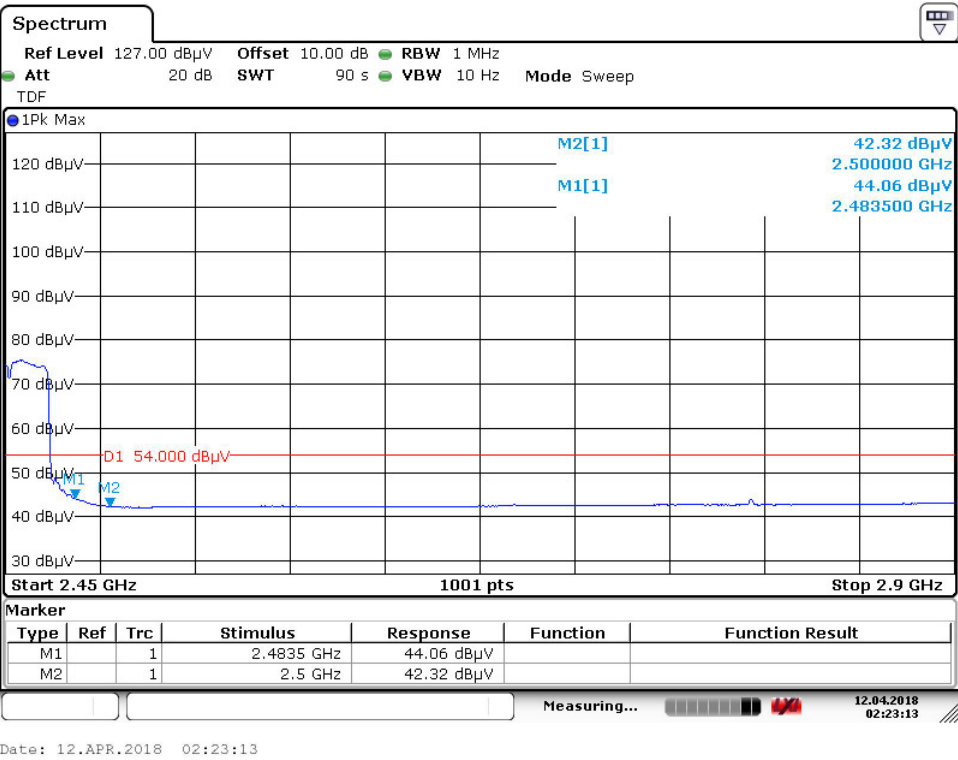


Date: 12.APR.2018 02:19:30



Date: 12.APR.2018 02:17:39

High Channel (Ver)



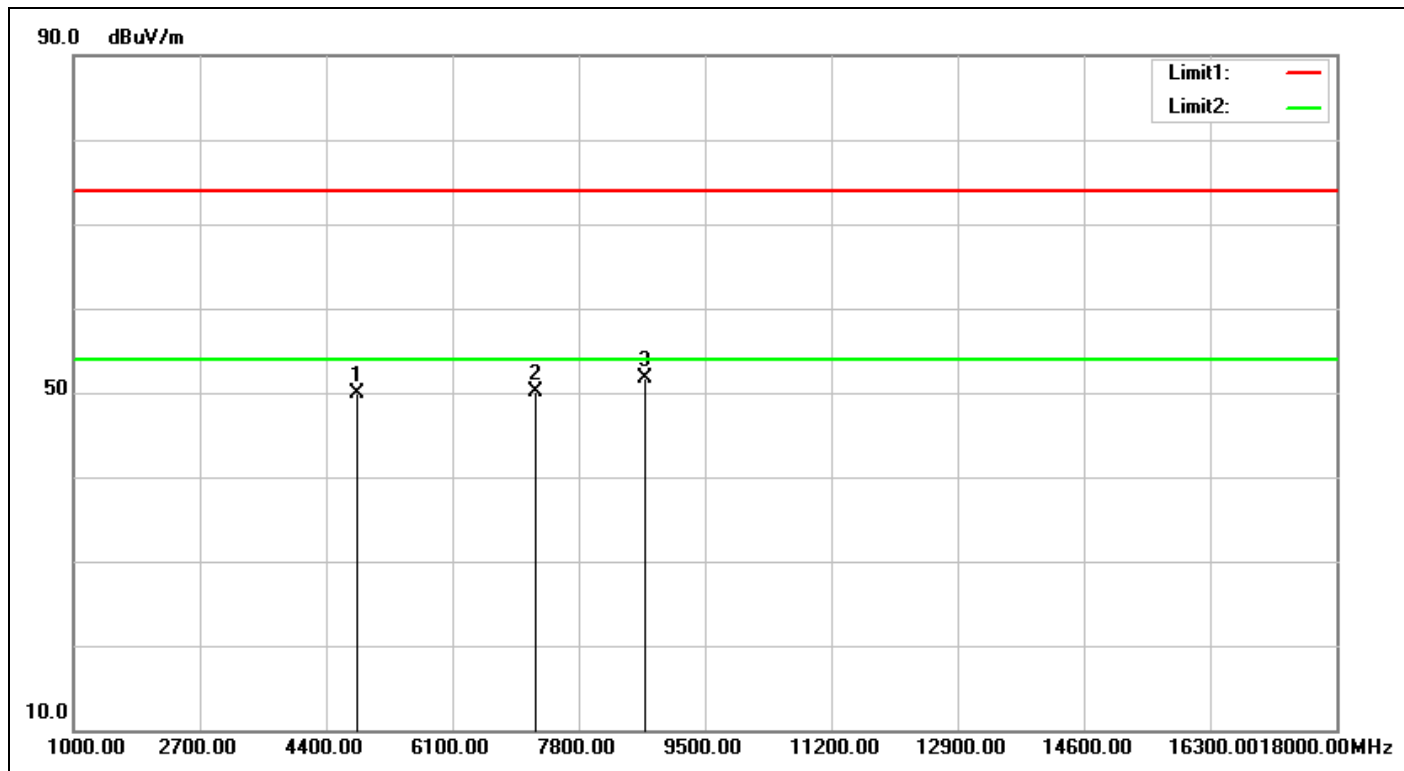
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

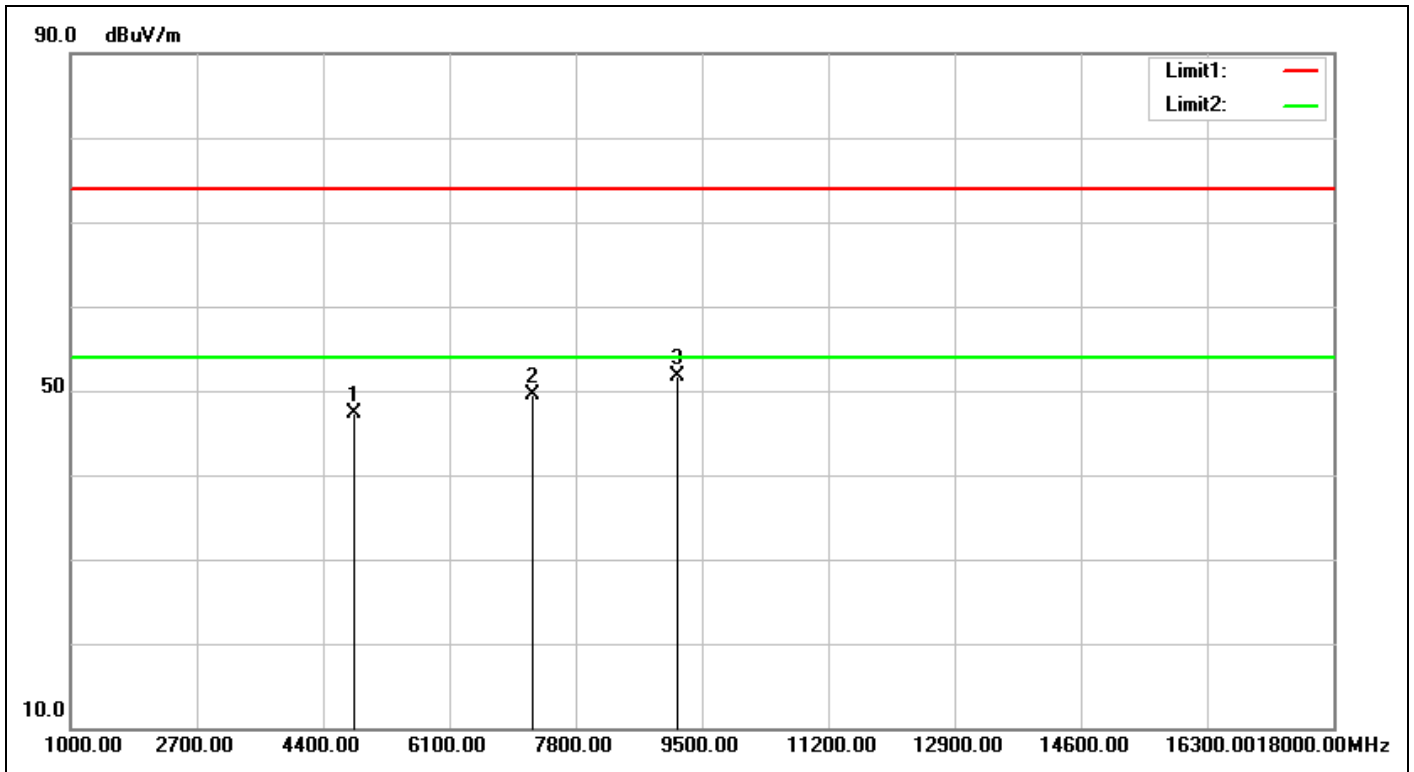
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



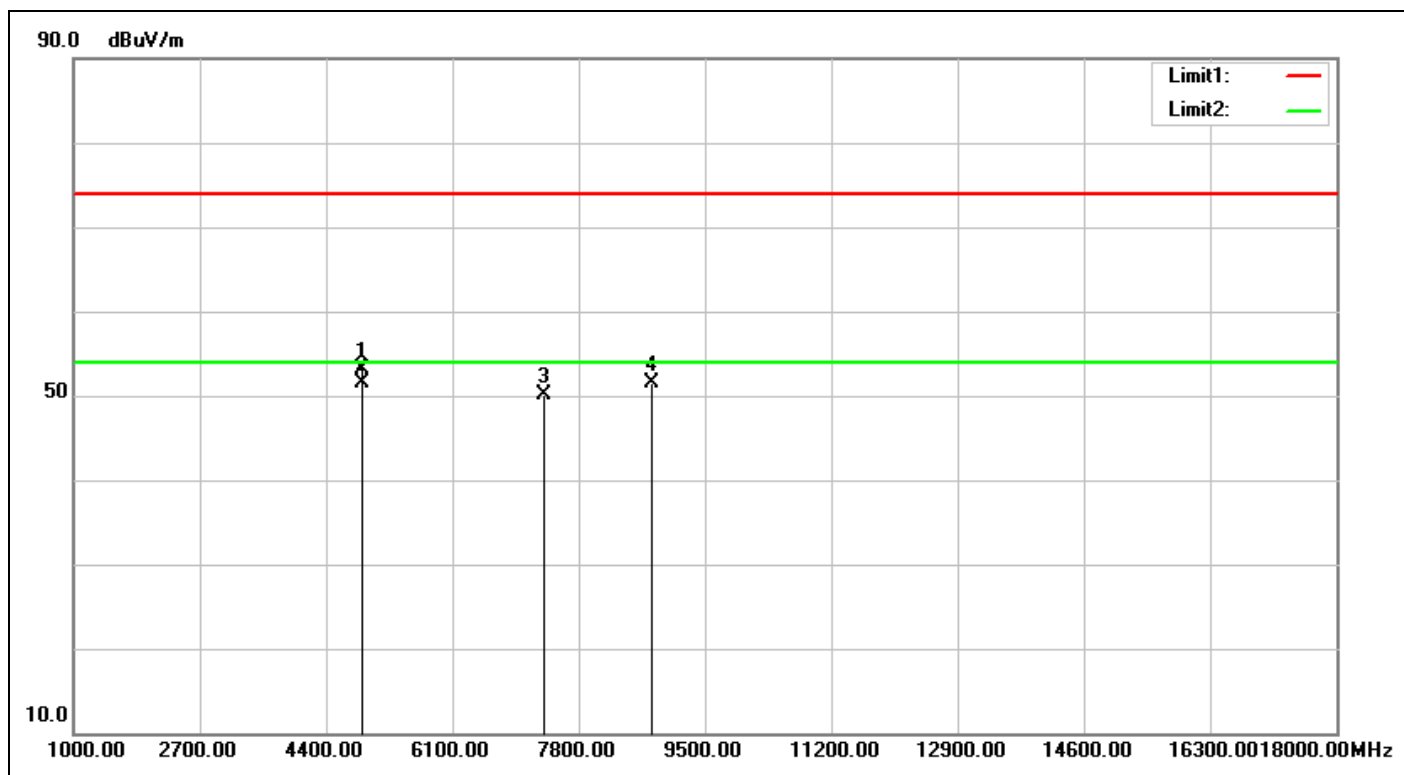
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Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1D		

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	52.47	49.81	74.00	-24.19	peak	100	219	
2	7236.000	5.32	44.82	50.14	74.00	-23.86	peak		0	
3	8684.000	6.40	45.38	51.78	74.00	-22.22	peak	100	130	



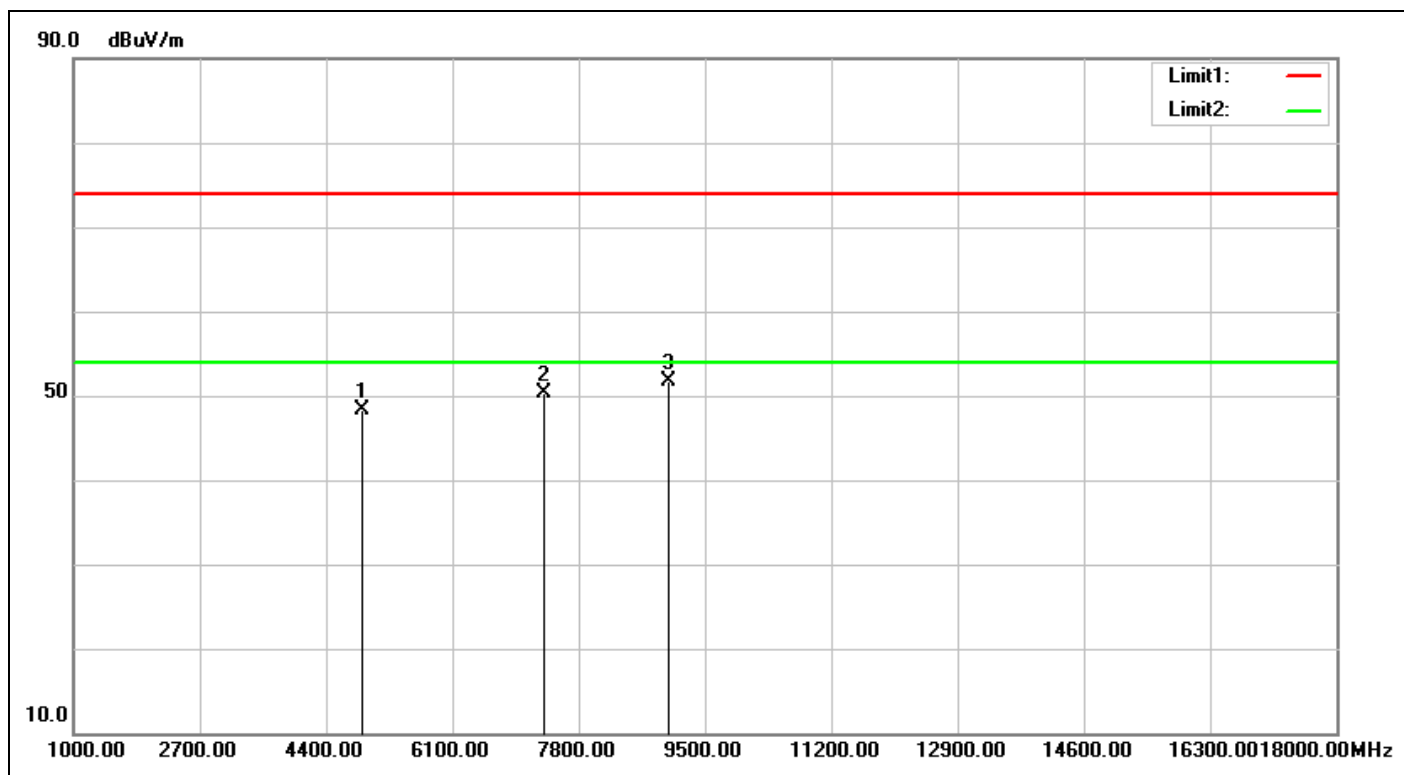
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Test item:	Radiation Emission	Test Time:	2018/4/12 03:10:52
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1D		

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	49.89	47.23	74.00	-26.77	peak			
2	7236.000	5.32	44.19	49.51	74.00	-24.49	peak			
3	9177.000	6.48	45.17	51.65	74.00	-22.35	peak	100	3	



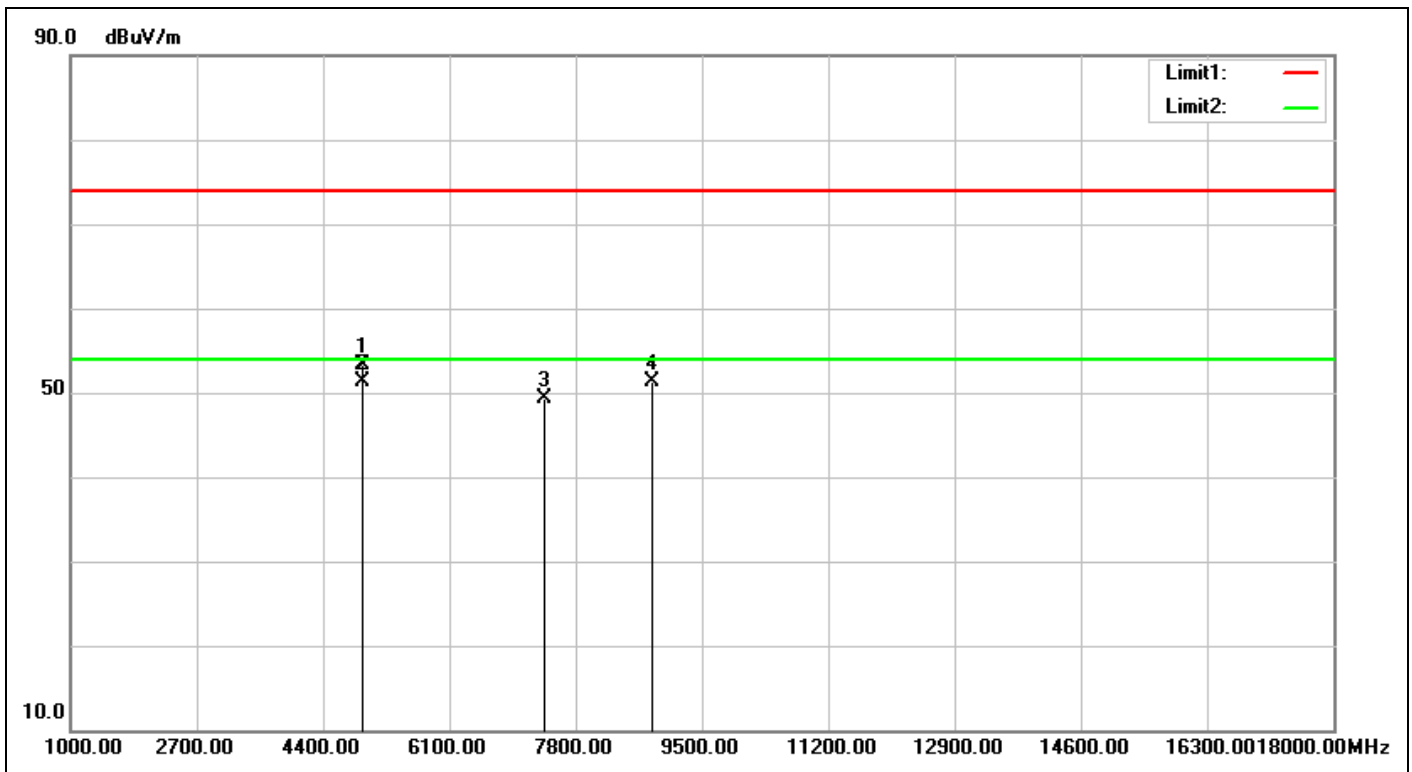
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Test item:	Radiation Emission	Test Time:	2018/4/12 03:12:59
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-TX		
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	55.68	53.15	74.00	-20.85	peak	100	167	
2	4874.000	-2.53	53.96	51.43	54.00	-2.57	AVG	100	167	
3	7311.000	5.52	44.67	50.19	74.00	-23.81	peak			
4	8786.000	6.42	45.08	51.50	74.00	-22.50	peak	100	337	



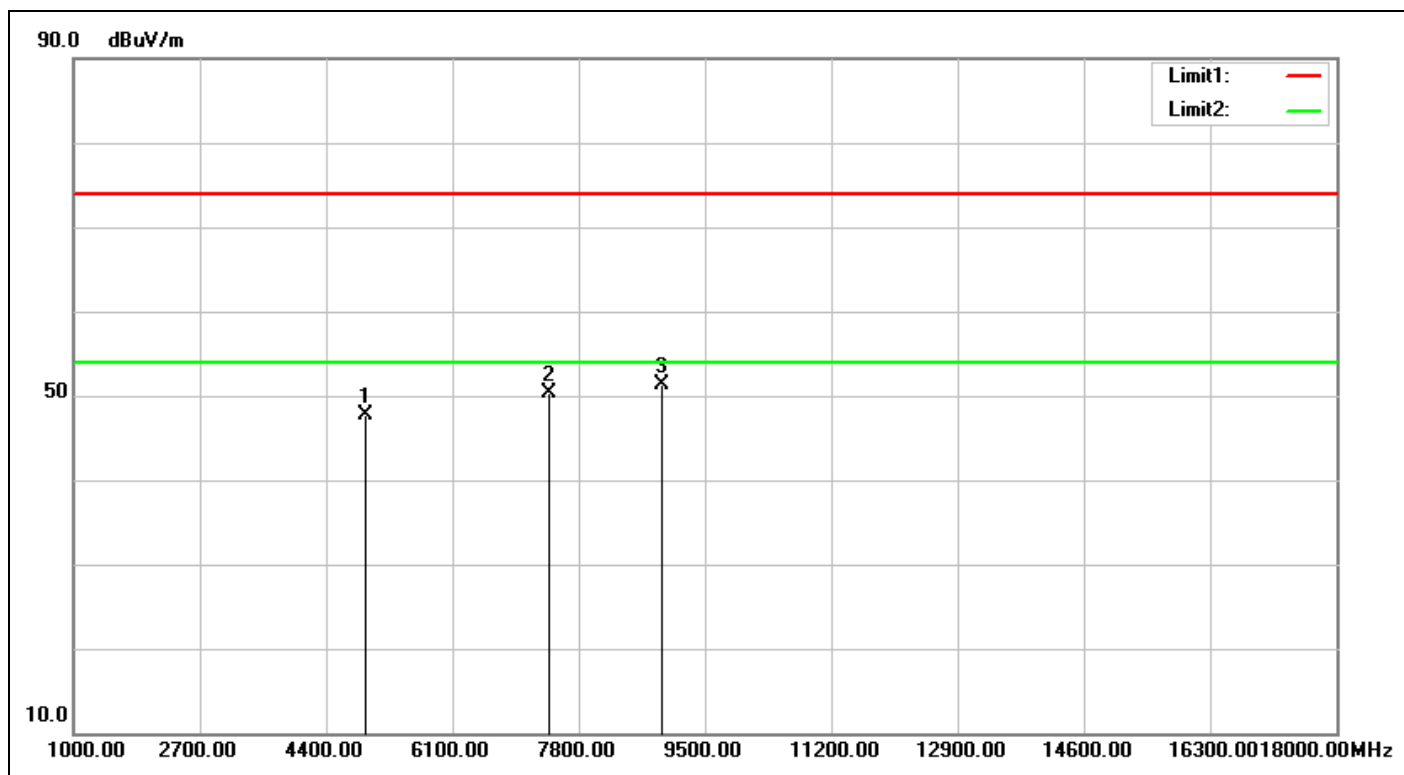
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:13:51
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	50.91	48.38	74.00	-25.62	peak			
2	7311.000	5.52	44.82	50.34	74.00	-23.66	peak			
3	9007.000	6.44	45.29	51.73	74.00	-22.27	peak	100	94	



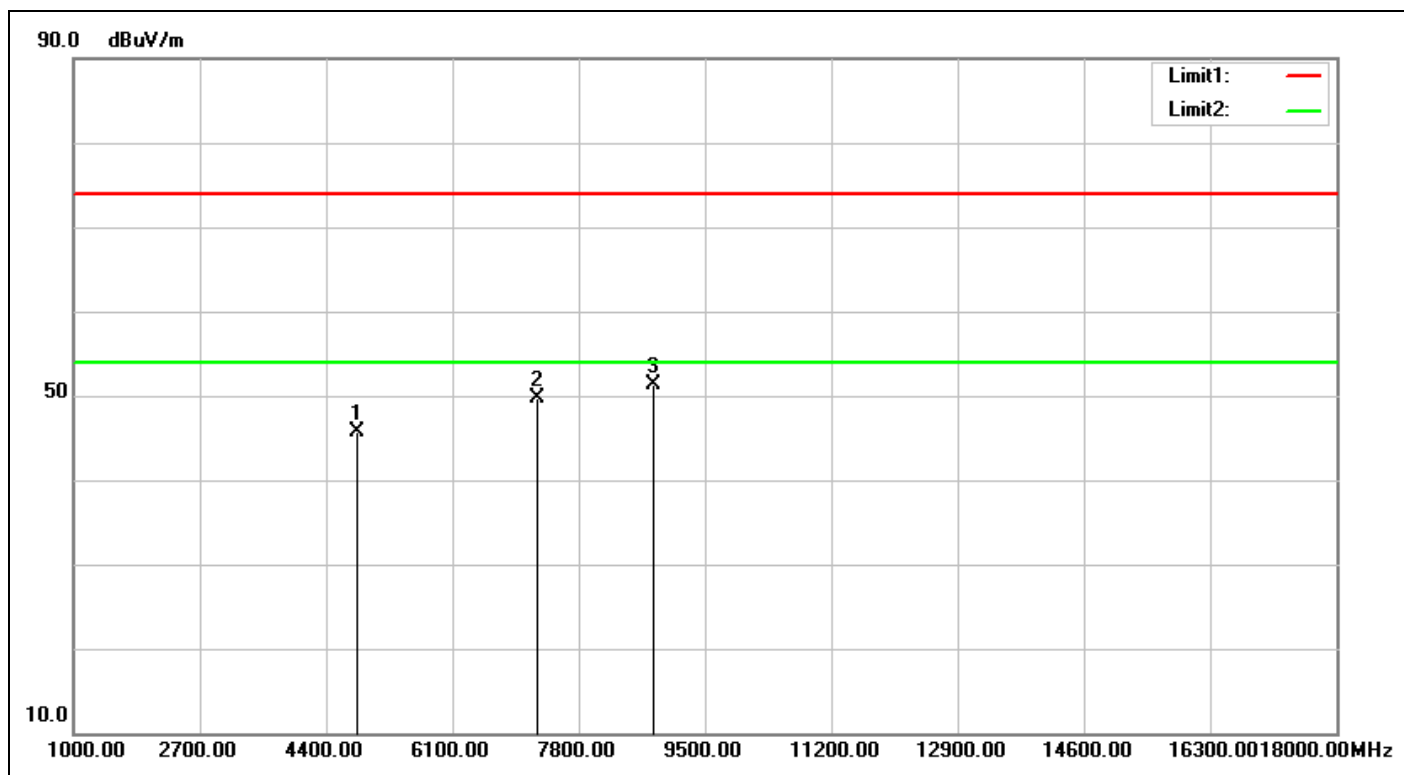
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Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1E		

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	55.62	53.23	74.00	-20.77	peak	100	198	
2	4924.000	-2.39	53.61	51.22	54.00	-2.78	AVG	100	198	
3	7386.000	5.70	43.55	49.25	74.00	-24.75	peak			
4	8820.000	6.41	44.89	51.30	74.00	-22.70	peak	100	31	



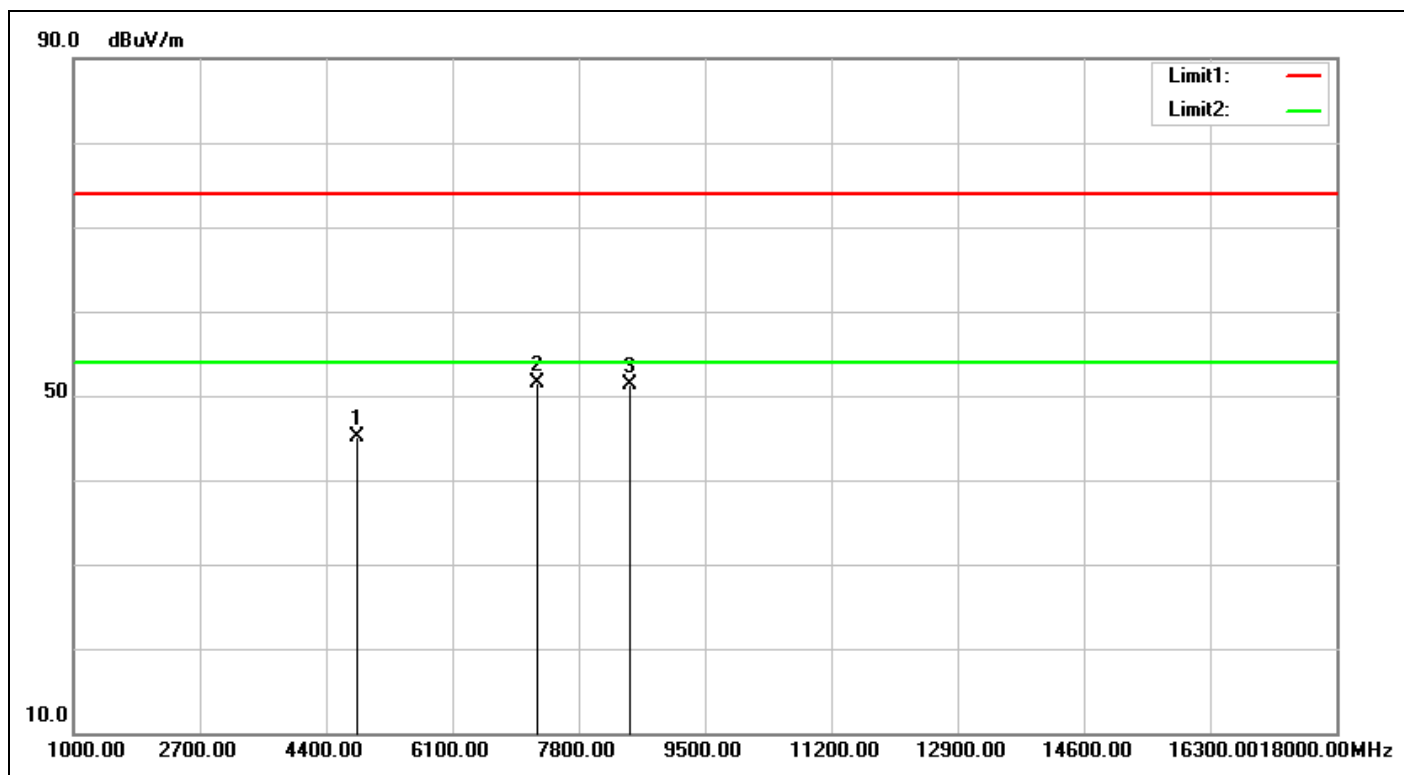
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:19:01
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1E		

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	50.17	47.78	74.00	-26.22	peak			
2	7386.000	5.70	44.60	50.30	74.00	-23.70	peak			
3	8922.000	6.42	44.90	51.32	74.00	-22.68	peak	100	302	



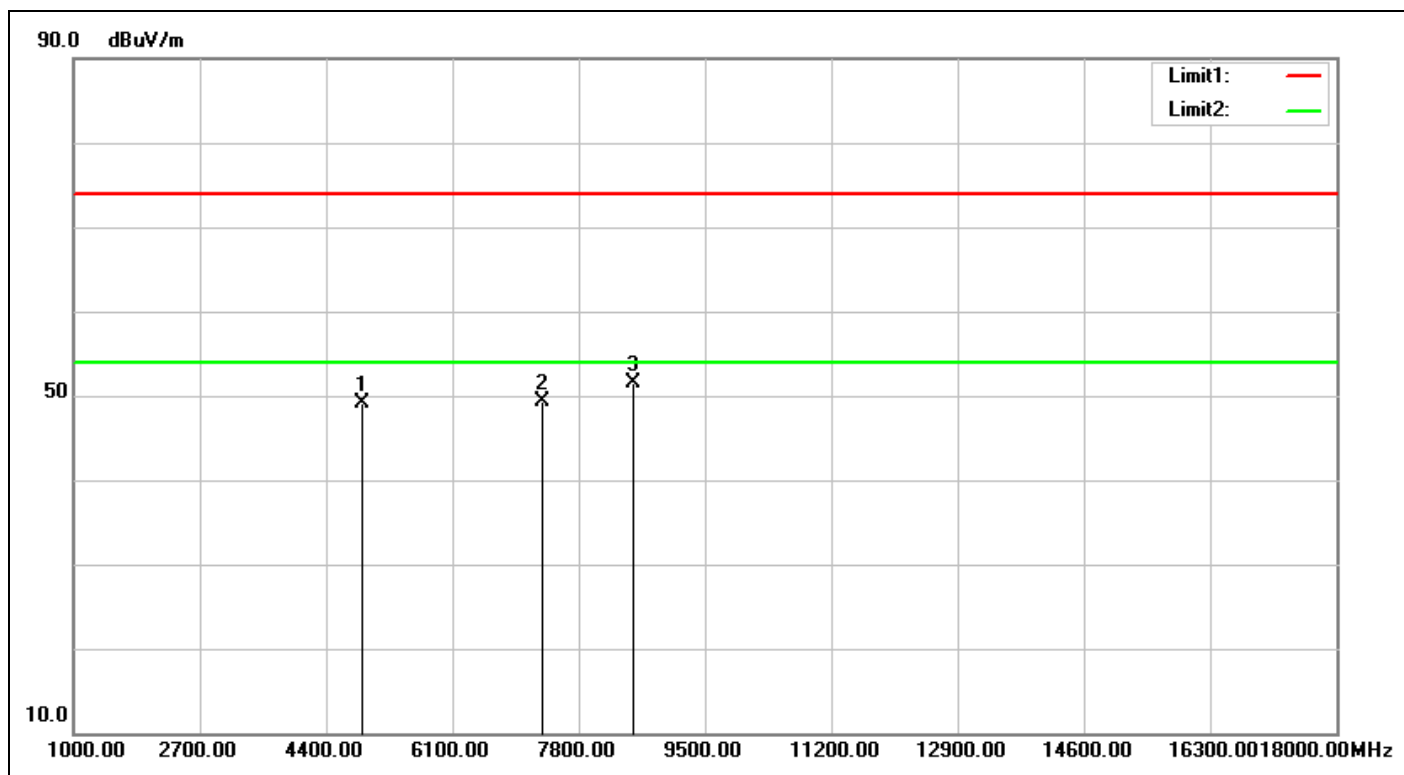
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:21:56
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1B		

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	48.46	45.80	74.00	-28.20	peak			
2	7236.000	5.32	44.35	49.67	74.00	-24.33	peak			
3	8803.000	6.42	44.96	51.38	74.00	-22.62	peak	100	239	



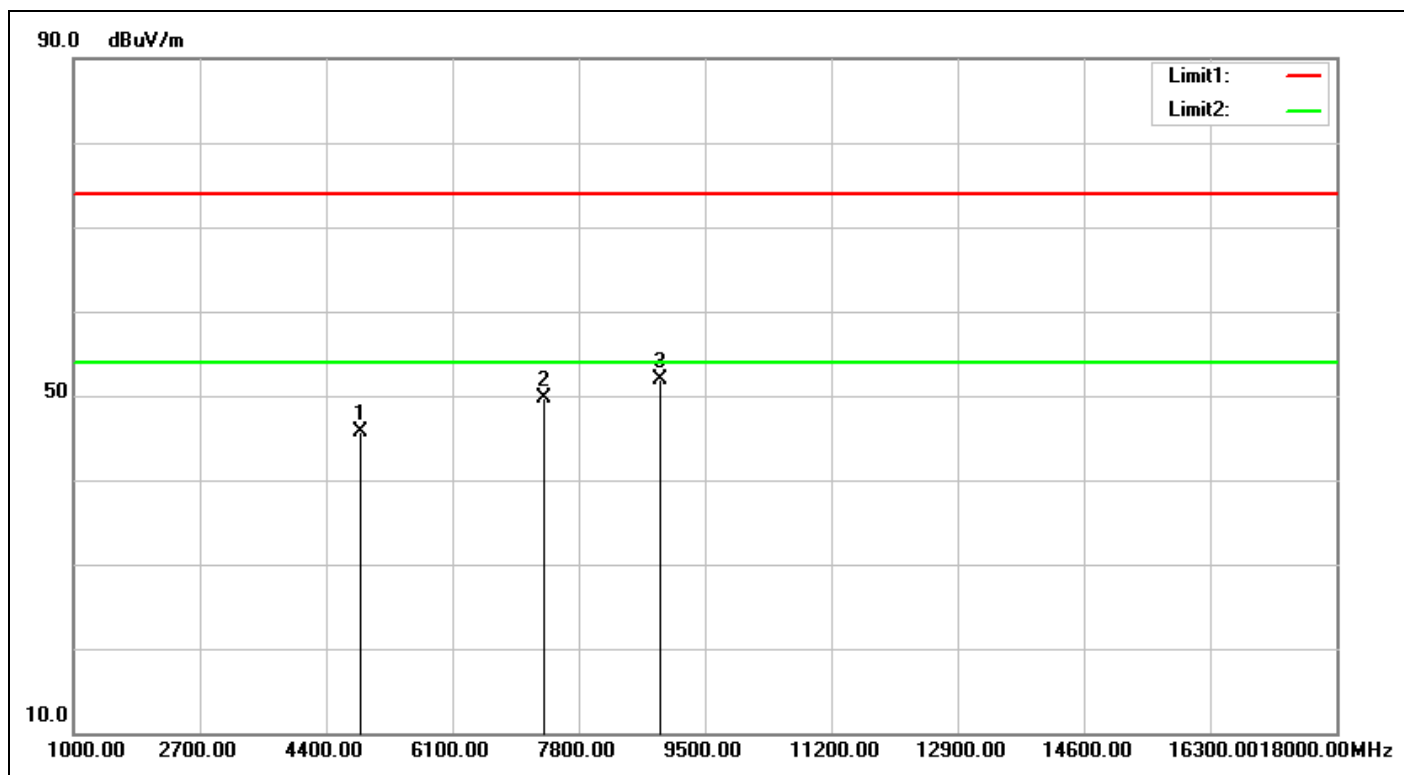
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:22:48
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1B		

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	47.68	45.02	74.00	-28.98	peak			
2	7236.000	5.32	46.19	51.51	74.00	-22.49	peak			
3	8480.000	6.35	44.94	51.29	74.00	-22.71	peak	100	356	



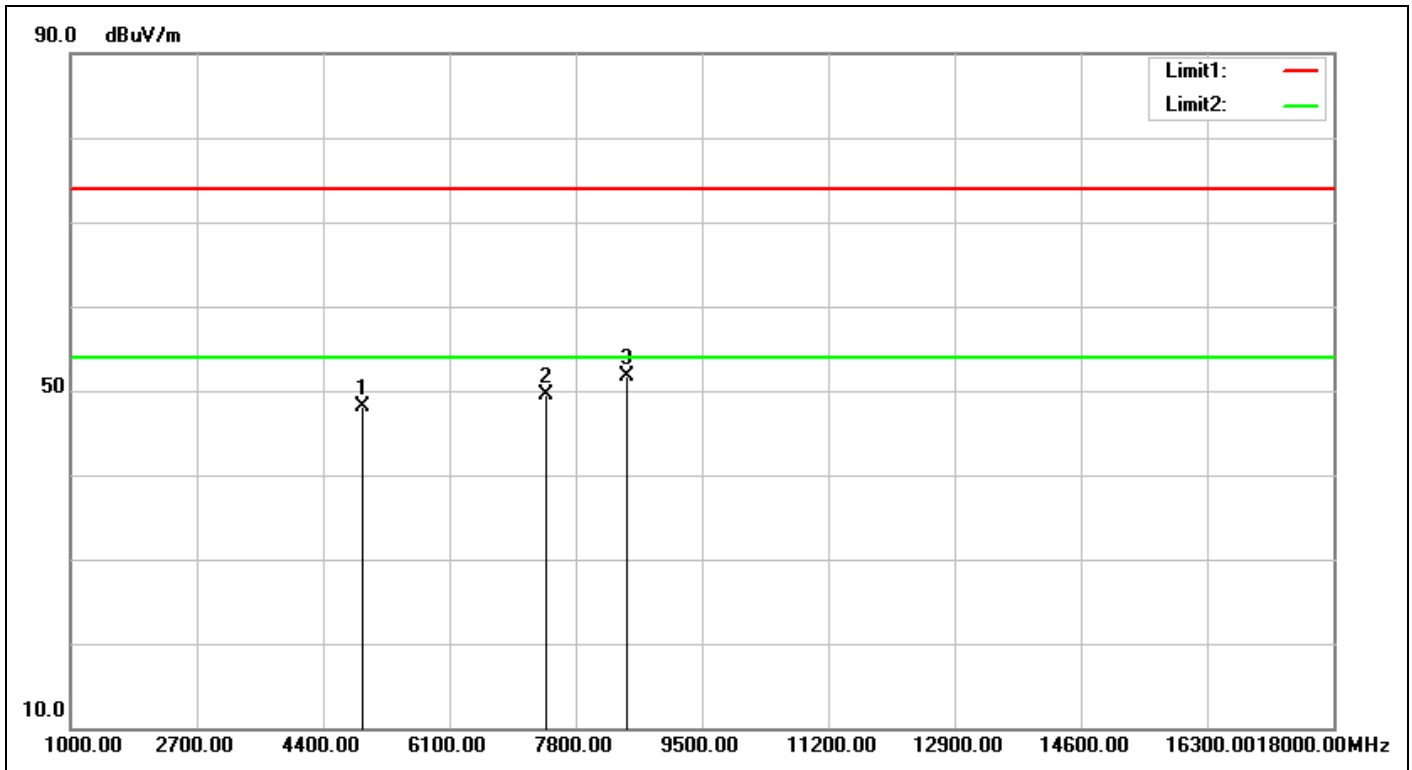
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:24:40
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 21		

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	51.72	49.19	74.00	-24.81	peak			
2	7311.000	5.52	43.86	49.38	74.00	-24.62	peak			
3	8531.000	6.38	45.19	51.57	74.00	-22.43	peak			



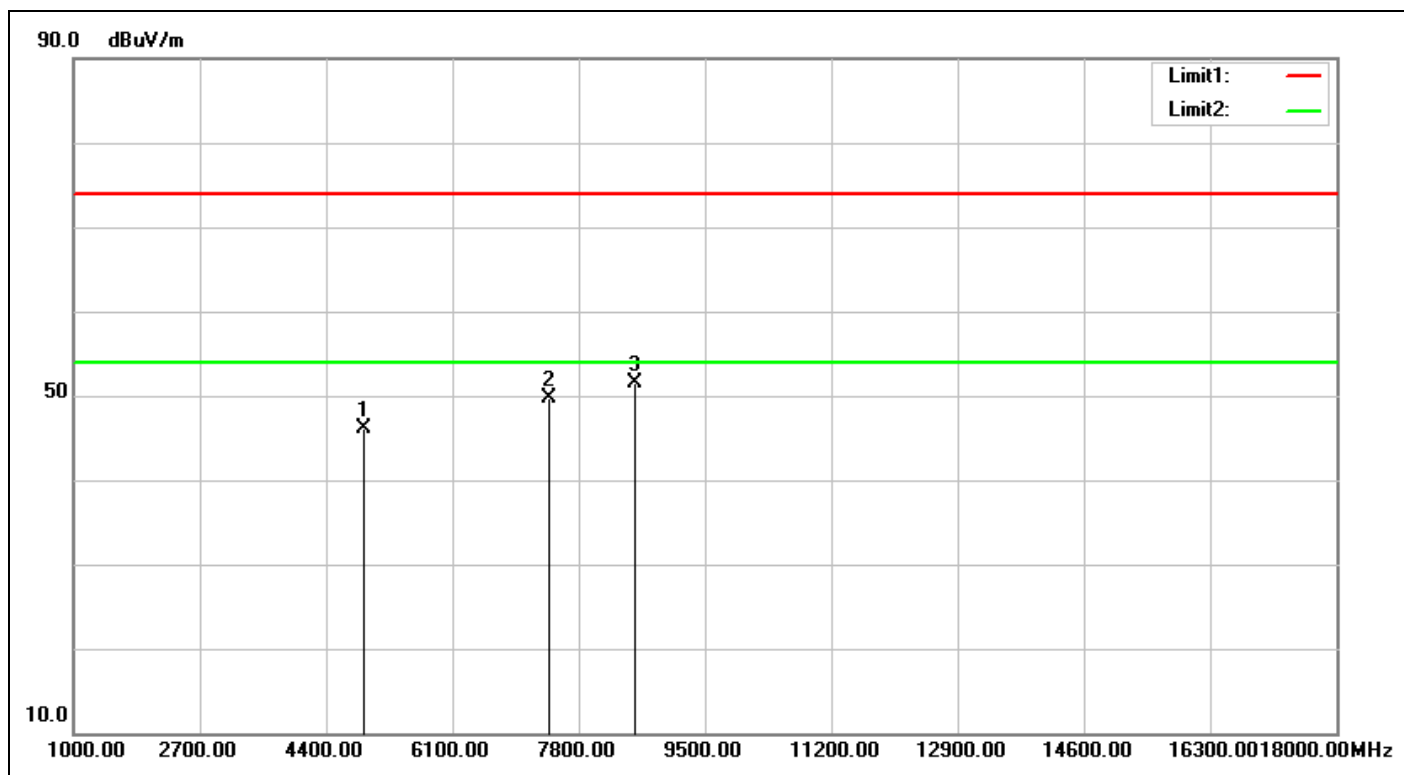
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:25:32
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 21		

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	48.20	45.67	74.00	-28.33	peak			
2	7311.000	5.52	44.16	49.68	74.00	-24.32	peak			
3	8905.000	6.42	45.57	51.99	74.00	-22.01	peak	100	125	



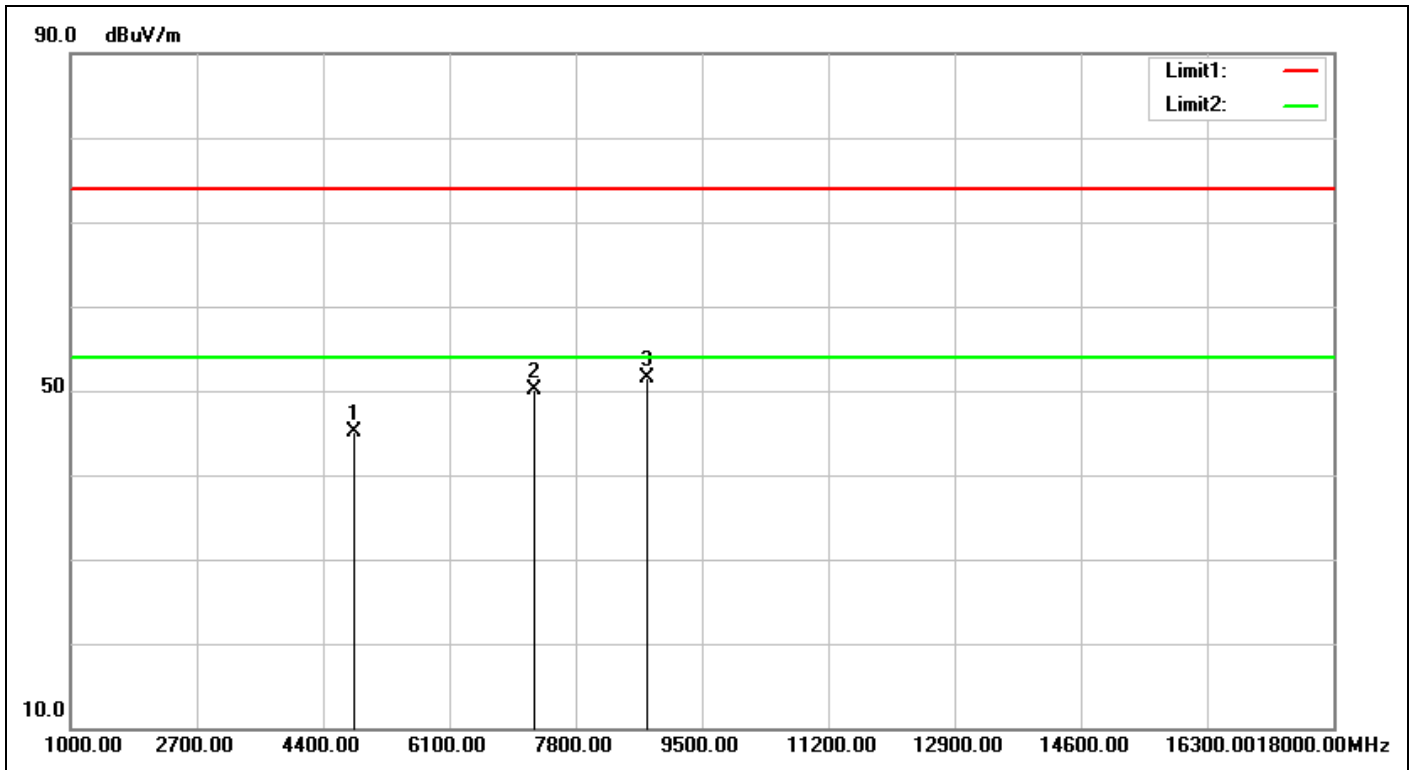
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:27:33
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 1B		

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	50.48	48.09	74.00	-25.91	peak			
2	7386.000	5.70	43.75	49.45	74.00	-24.55	peak			
3	8497.000	6.38	45.41	51.79	74.00	-22.21	peak	100	360	



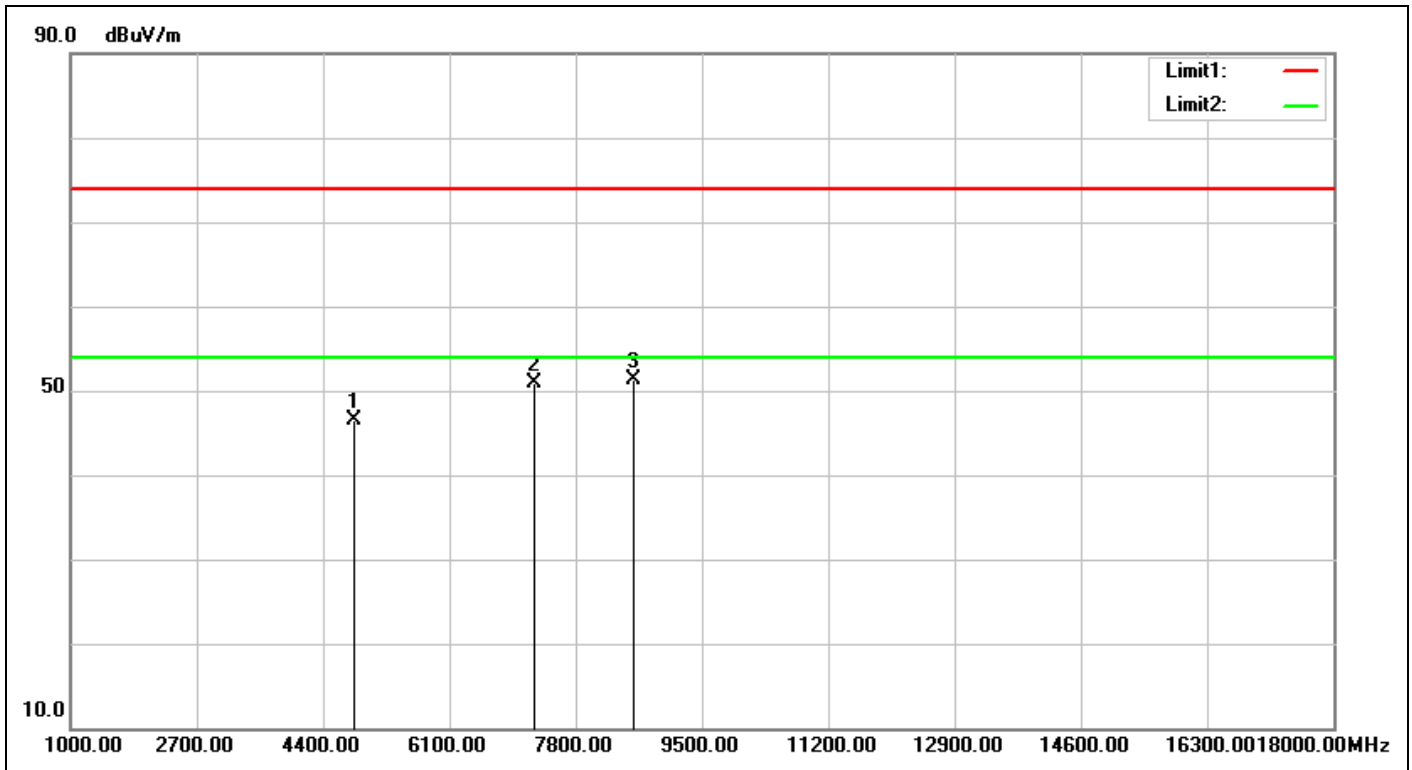
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:28:26
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 1B		

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	48.58	46.19	74.00	-27.81	peak			
2	7386.000	5.70	44.09	49.79	74.00	-24.21	peak			
3	8565.000	6.39	45.14	51.53	74.00	-22.47	peak	100	264	



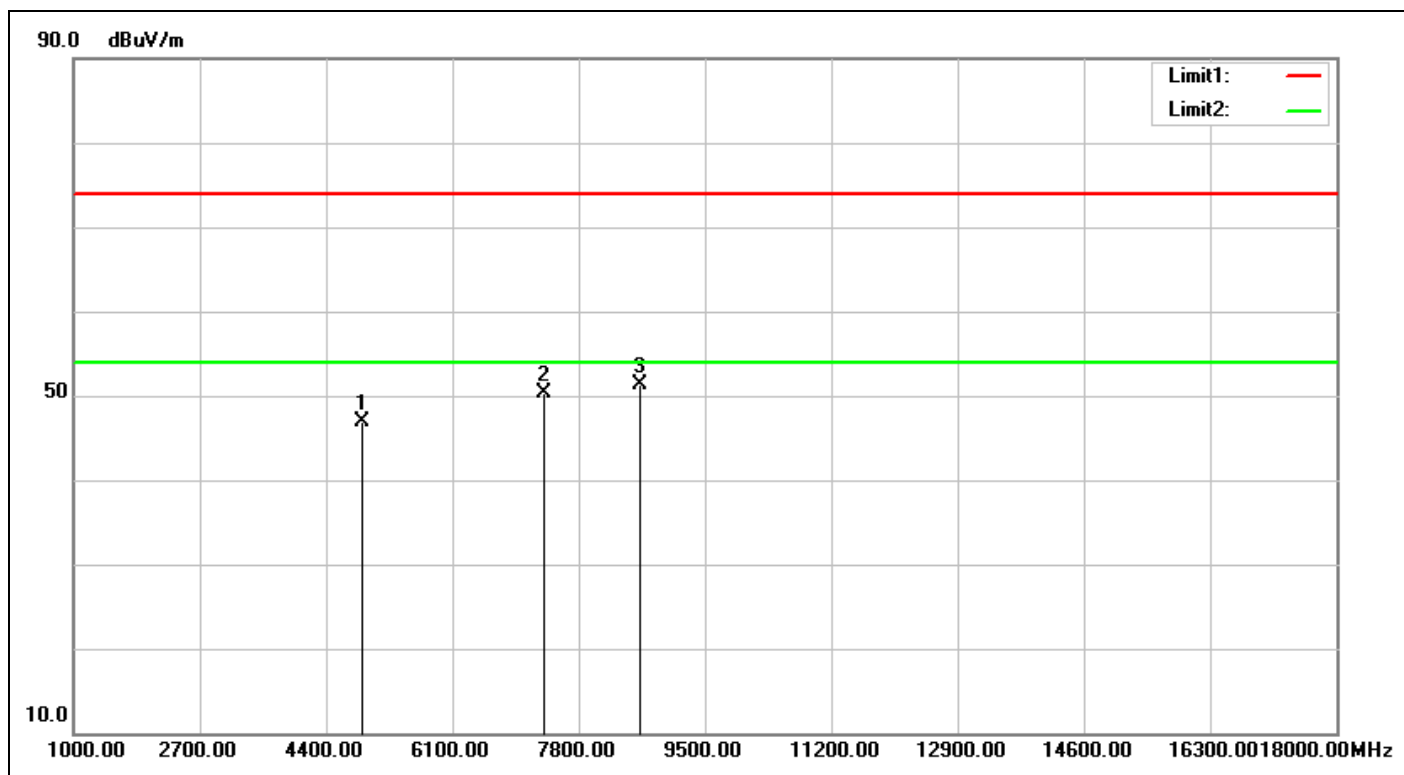
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:31:23
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 15 15		

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	47.77	45.11	74.00	-28.89	peak			
2	7236.000	5.32	44.88	50.20	74.00	-23.80	peak			
3	8769.000	6.41	45.16	51.57	74.00	-22.43	peak	100	222	



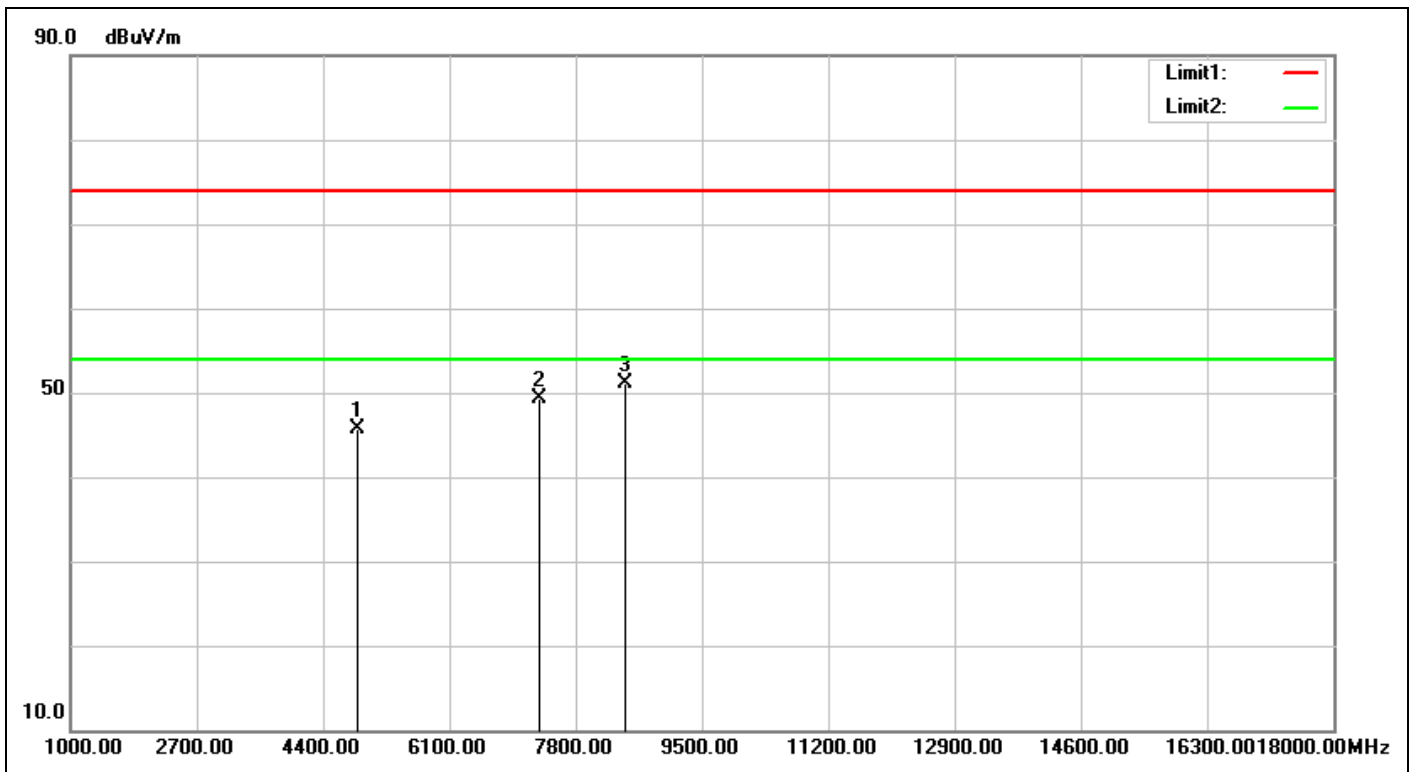
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:32:15
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 15 15		

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	49.21	46.55	74.00	-27.45	peak			
2	7236.000	5.32	45.67	50.99	74.00	-23.01	peak			
3	8582.000	6.39	44.84	51.23	74.00	-22.77	peak	100	210	



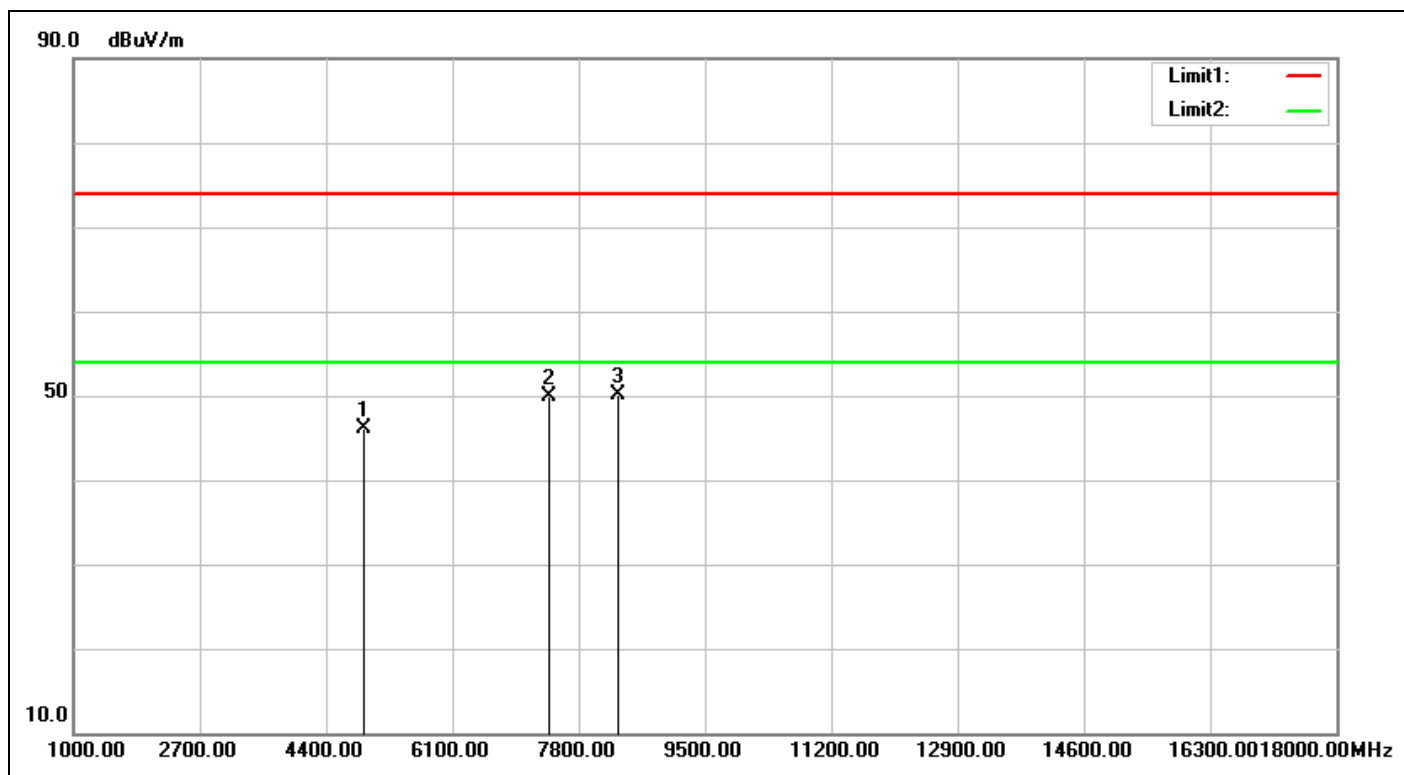
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:34:30
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 18 18		

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	49.47	46.94	74.00	-27.06	peak			
2	7311.000	5.52	44.72	50.24	74.00	-23.76	peak			
3	8633.000	6.39	44.96	51.35	74.00	-22.65	peak	100	334	



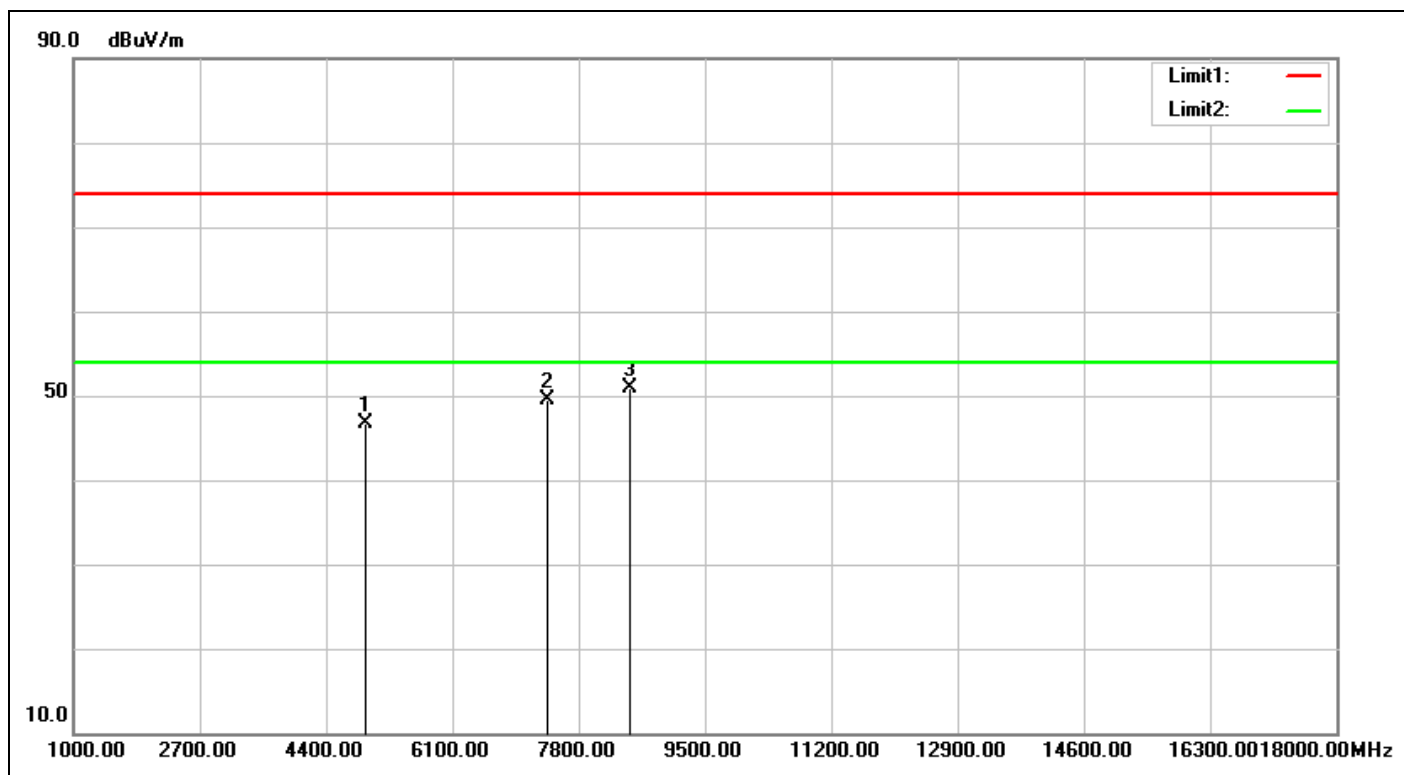
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:35:22
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 18 18		

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	48.21	45.68	74.00	-28.32	peak			
2	7311.000	5.52	43.82	49.34	74.00	-24.66	peak			
3	8463.000	6.34	44.69	51.03	74.00	-22.97	peak	100	29	



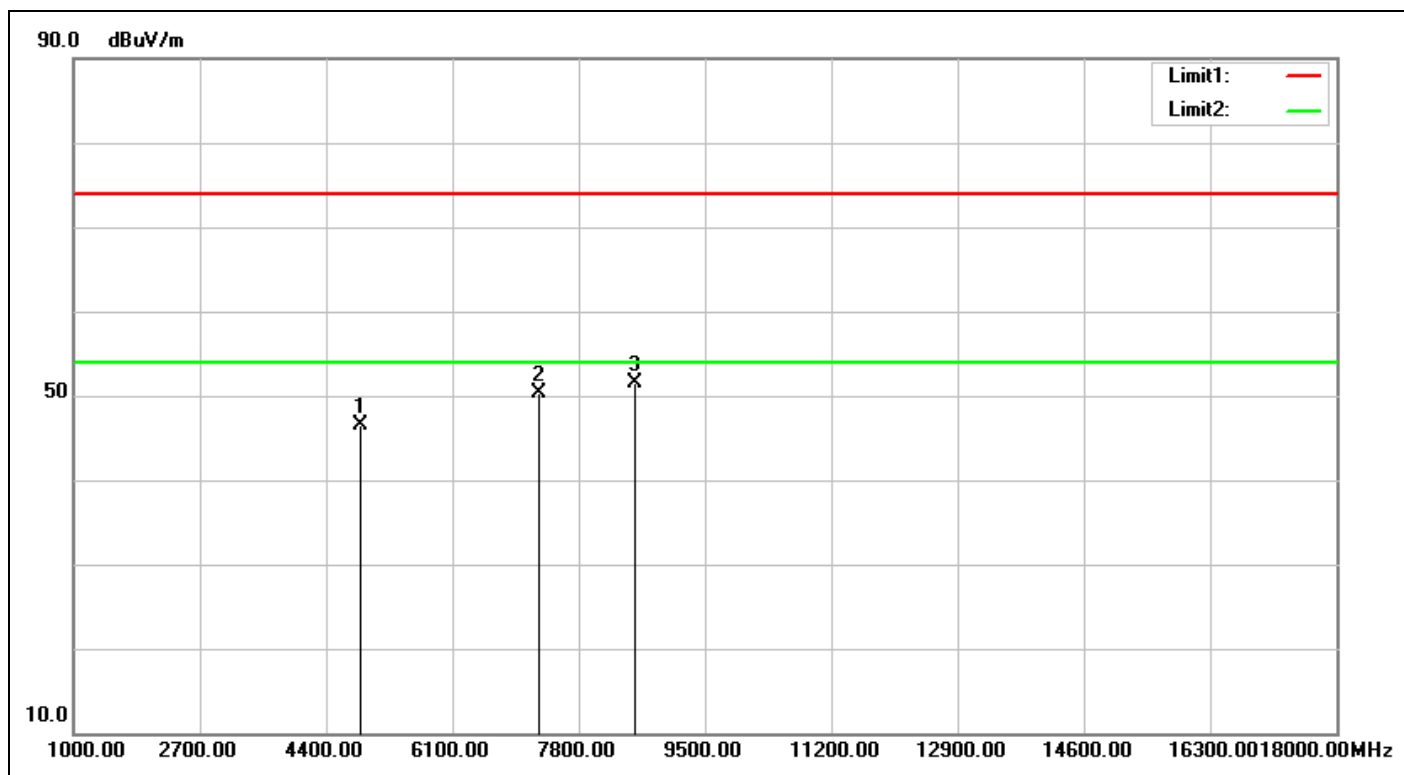
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:37:29
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 15 15		

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	48.42	46.03	74.00	-27.97	peak			
2	7386.000	5.70	44.30	50.00	74.00	-24.00	peak			
3	8327.000	6.18	44.01	50.19	74.00	-23.81	peak	100	215	



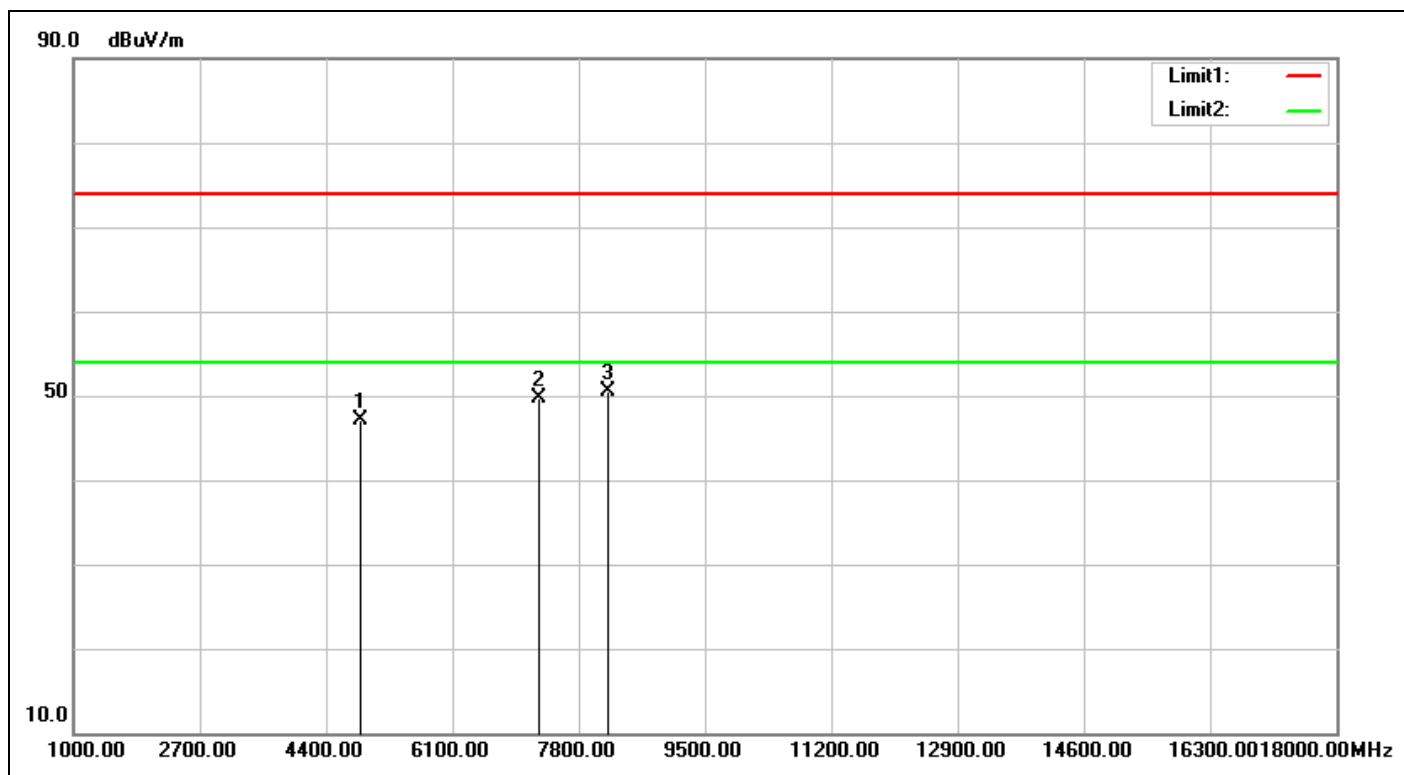
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:38:22
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 15 15		

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	49.04	46.65	74.00	-27.35	peak			
2	7386.000	5.70	43.74	49.44	74.00	-24.56	peak			
3	8480.000	6.35	44.64	50.99	74.00	-23.01	peak	100	210	



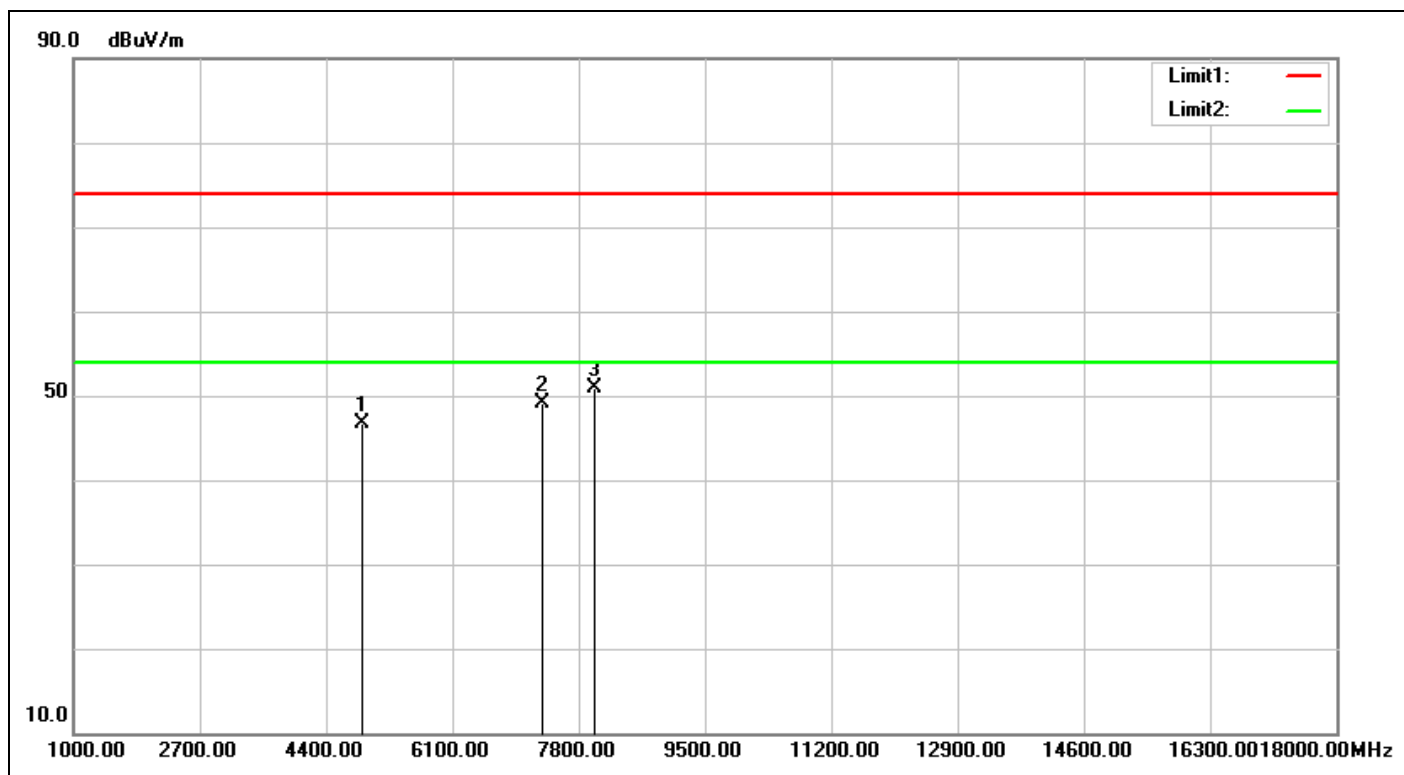
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:40:34
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2422-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	4844.000	-2.61	49.18	46.57	74.00	-27.43	peak			
2	7266.000	5.40	44.86	50.26	74.00	-23.74	peak			
3	8565.000	6.39	45.16	51.55	74.00	-22.45	peak	100	219	



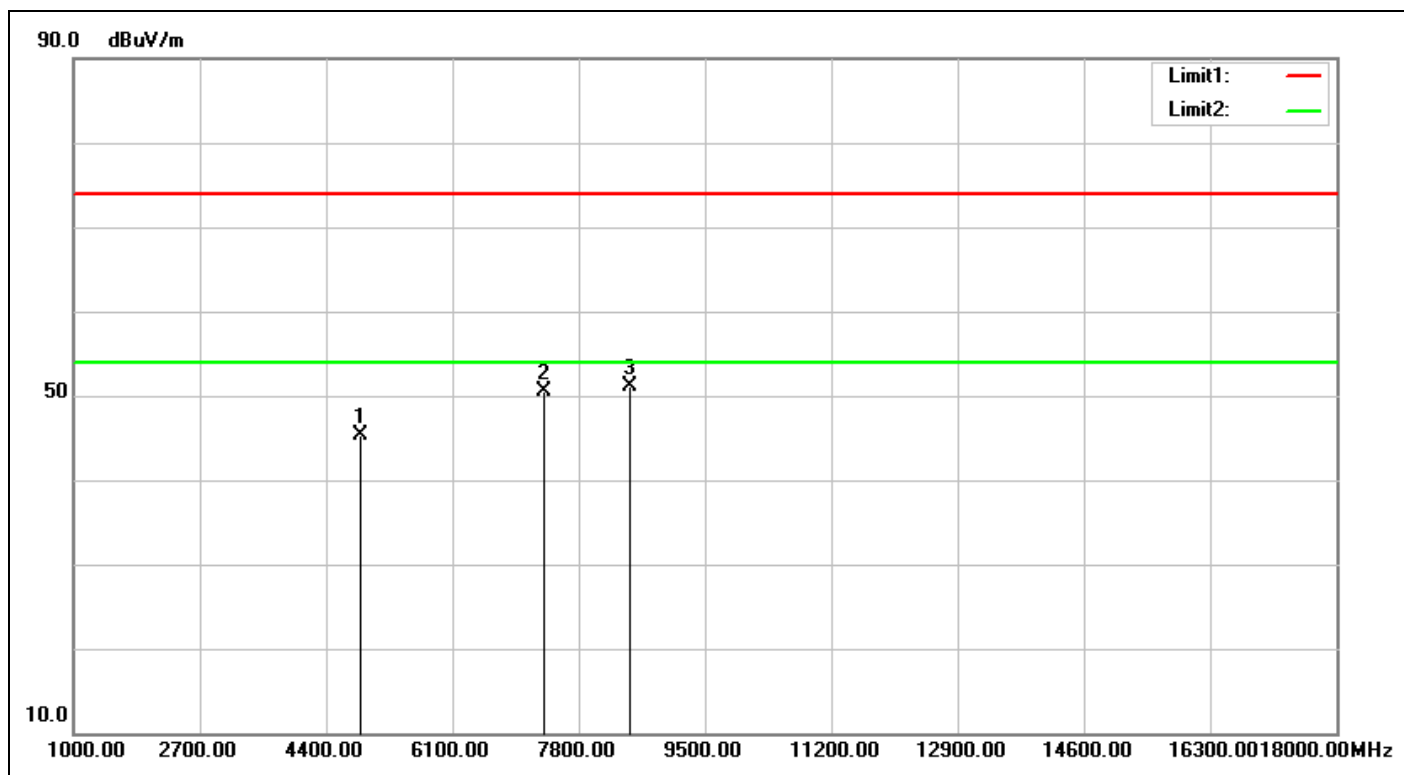
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:41:26
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2422-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	4844.000	-2.61	49.78	47.17	74.00	-26.83	peak			
2	7266.000	5.40	44.29	49.69	74.00	-24.31	peak			
3	8191.000	6.03	44.46	50.49	74.00	-23.51	peak	100	101	



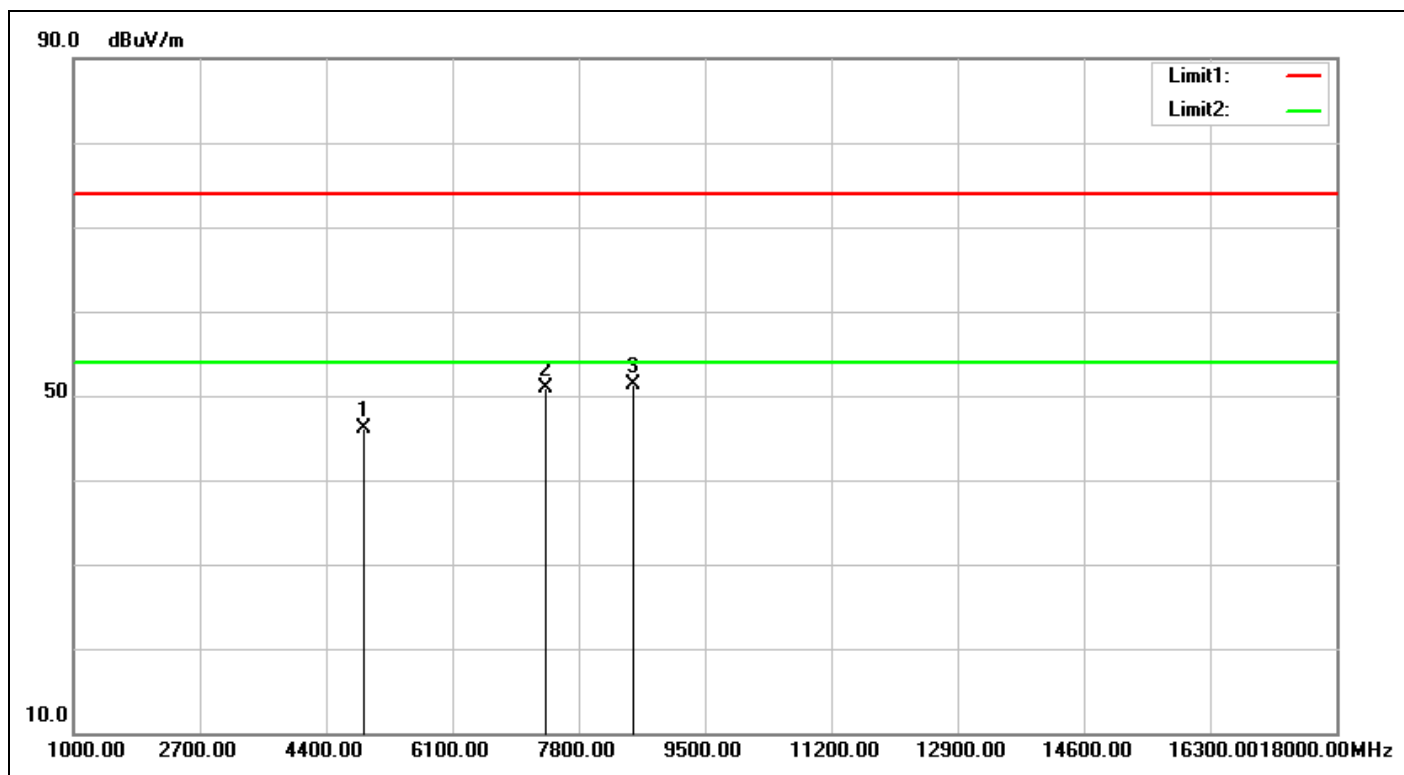
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:43:47
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	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	49.23	46.70	74.00	-27.30	peak			
2	7311.000	5.52	43.52	49.04	74.00	-24.96	peak			
3	8004.000	5.82	45.06	50.88	74.00	-23.12	peak	100	304	



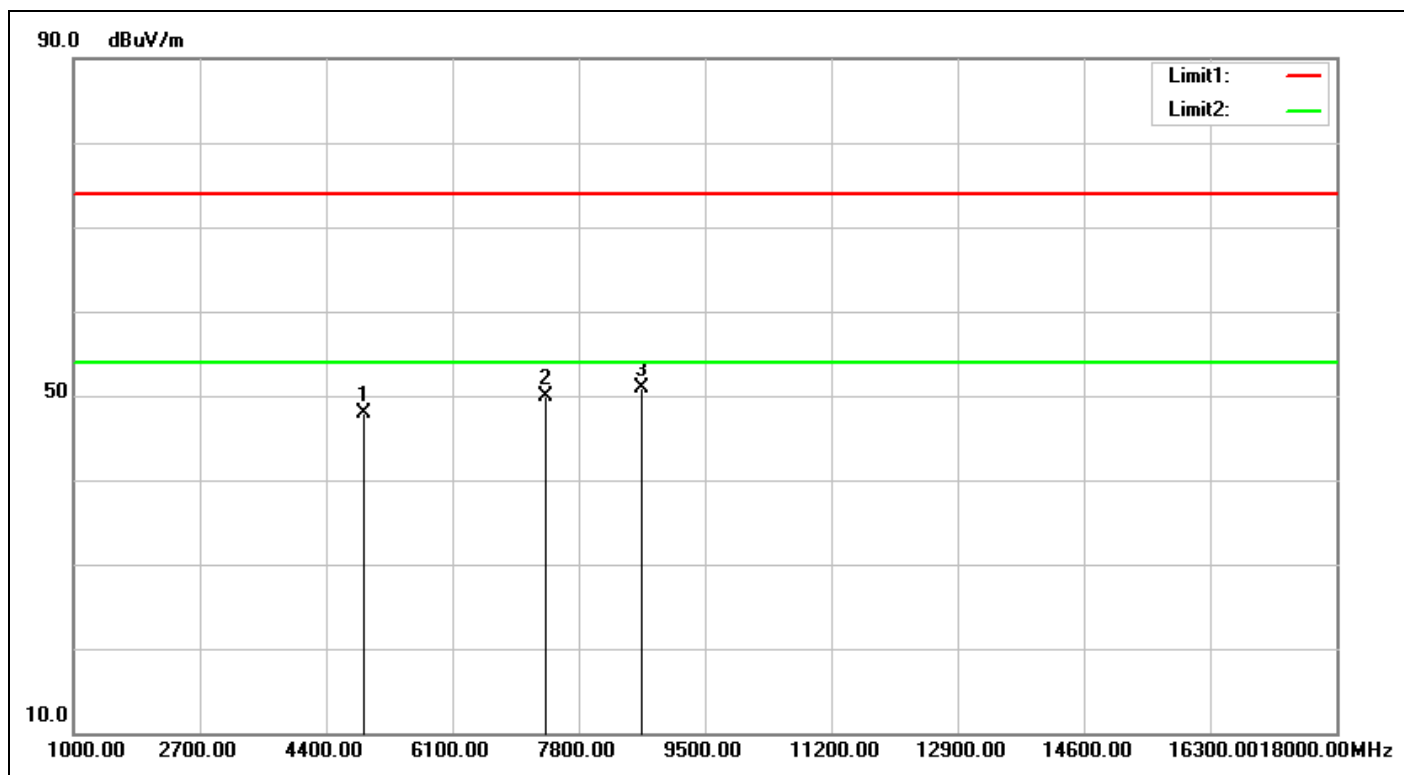
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:44:39
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	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	47.88	45.35	74.00	-28.65	peak			
2	7311.000	5.52	44.96	50.48	74.00	-23.52	peak			
3	8480.000	6.35	44.70	51.05	74.00	-22.95	peak	100	60	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:46:36
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 12 12		

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	48.45	46.01	74.00	-27.99	peak			
2	7356.000	5.63	45.33	50.96	74.00	-23.04	peak			
3	8531.000	6.38	44.86	51.24	74.00	-22.76	peak	100	358	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:47:28
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 12 12		

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	50.28	47.84	74.00	-26.16	peak			
2	7356.000	5.63	44.19	49.82	74.00	-24.18	peak			
3	8650.000	6.40	44.55	50.95	74.00	-23.05	peak	100	5	

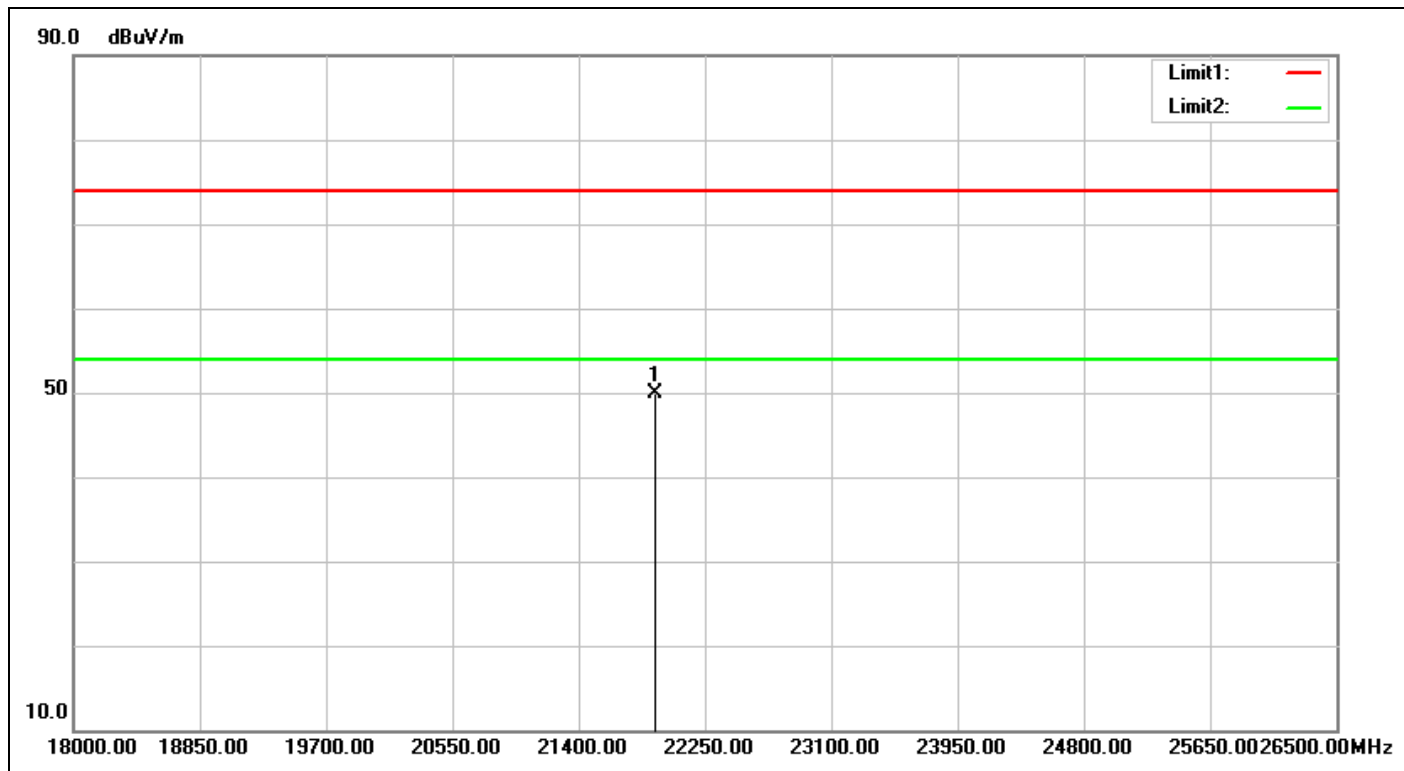
Spurious Emissions, TX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

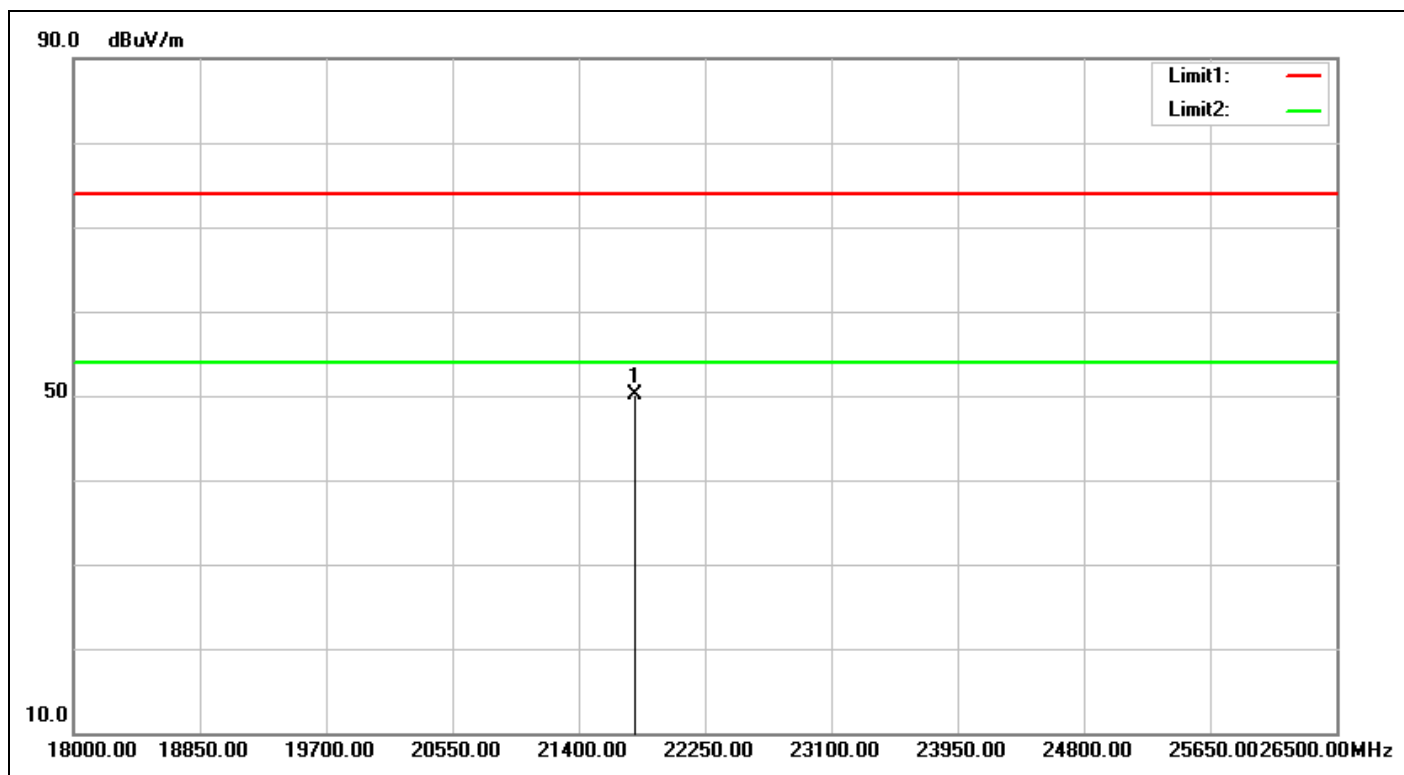
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



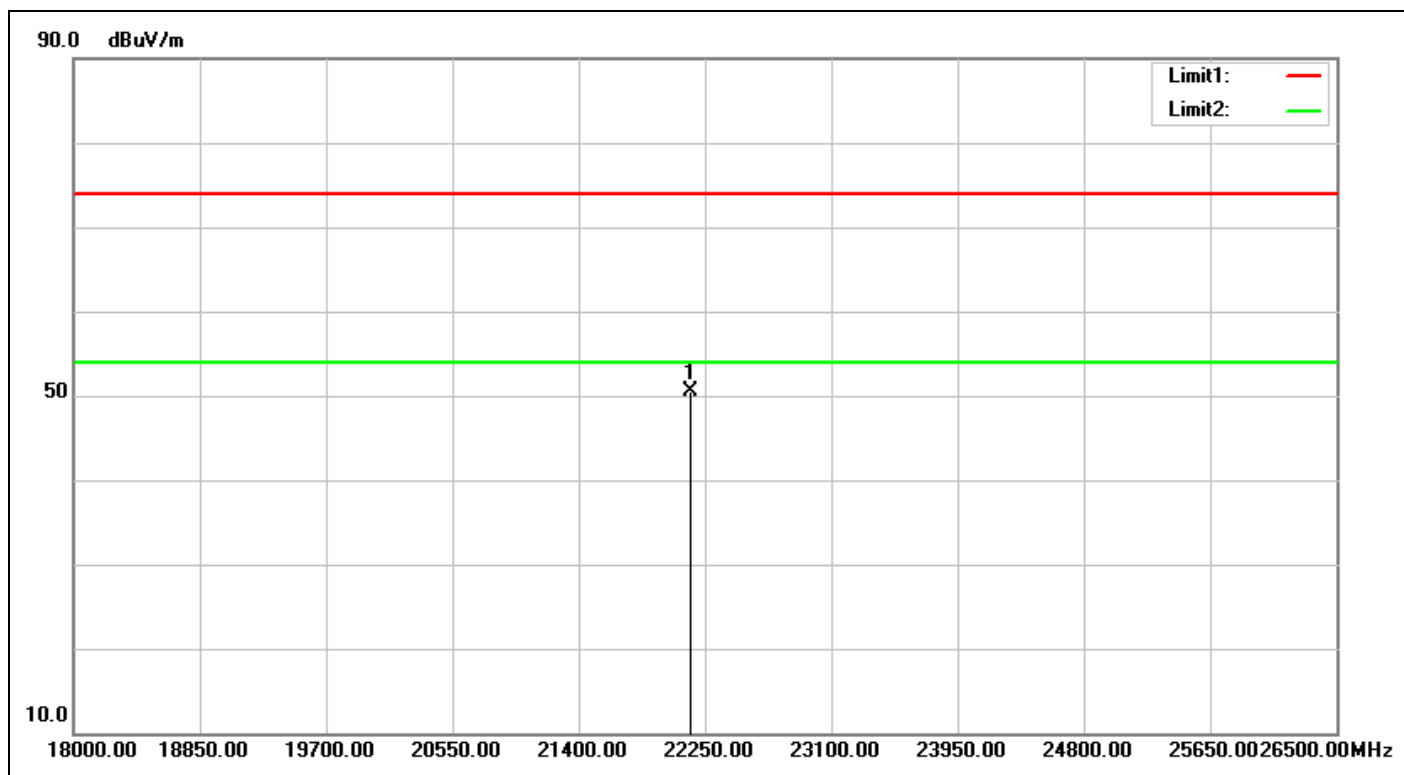
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:00:19
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21910.000	32.65	17.19	49.84	74.00	-24.16	peak		0	



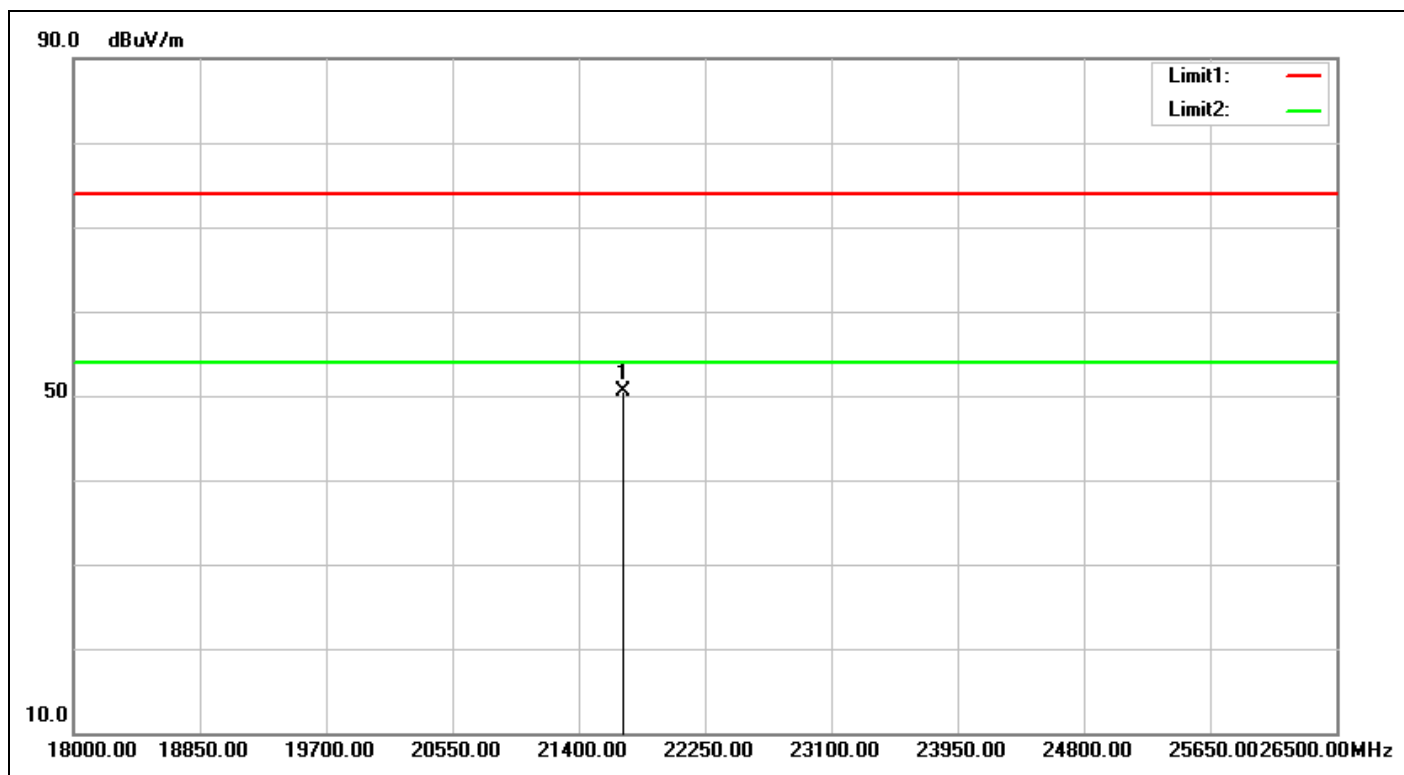
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:00:25
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2412-TX		
Remark:	Power Setting 1D		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21782.500	32.72	17.41	50.13	74.00	-23.87	peak			



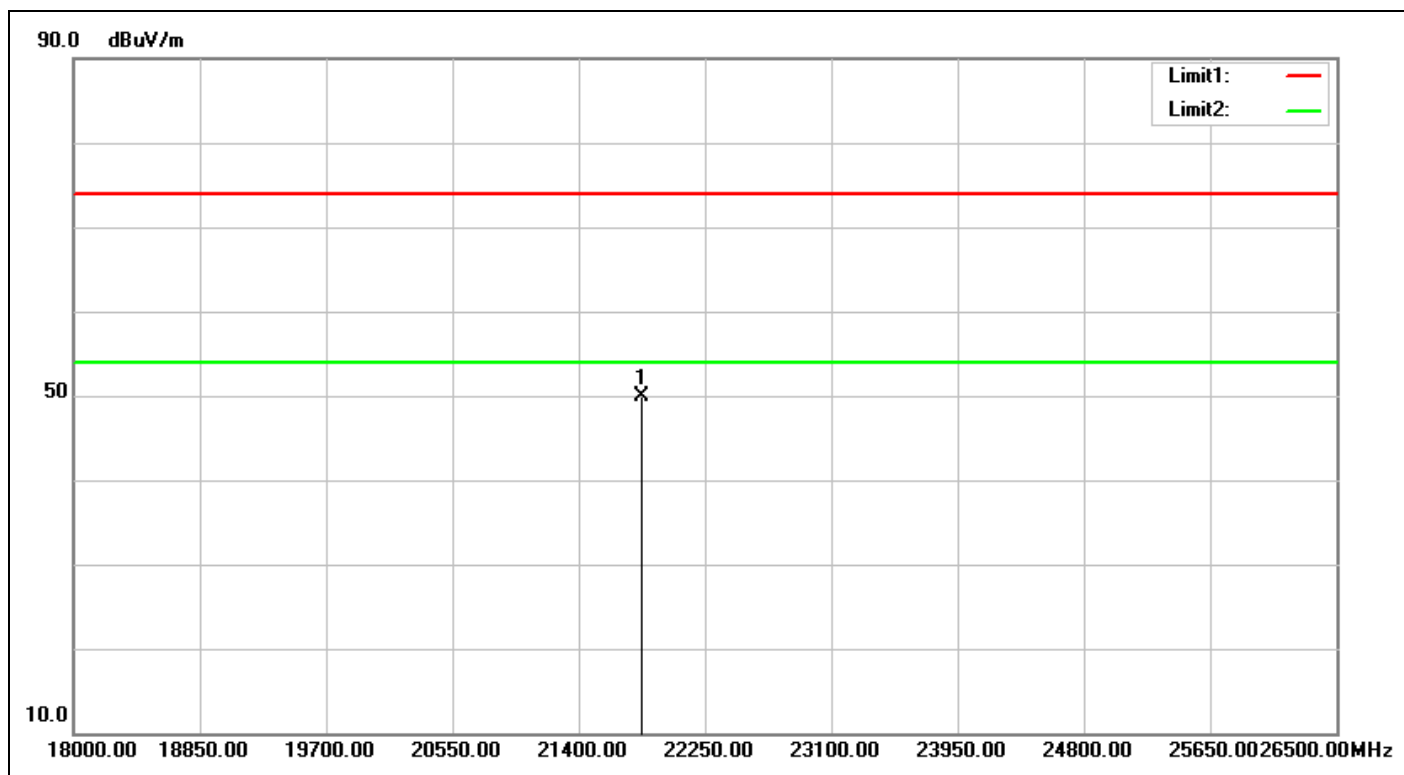
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:00:53
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	22148.000	32.61	17.87	50.48	74.00	-23.52	peak			



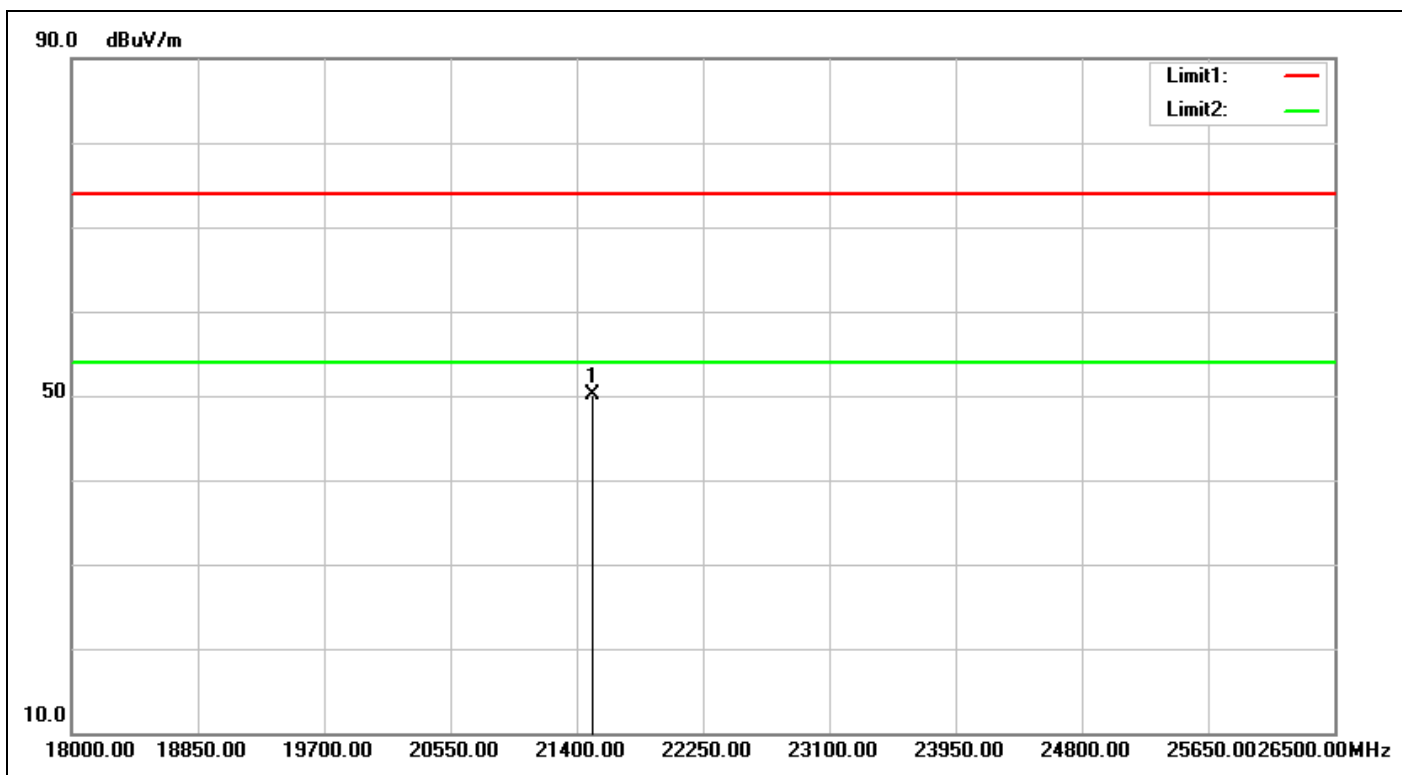
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:01:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	21697.500	32.77	17.74	50.51	74.00	-23.49	peak			



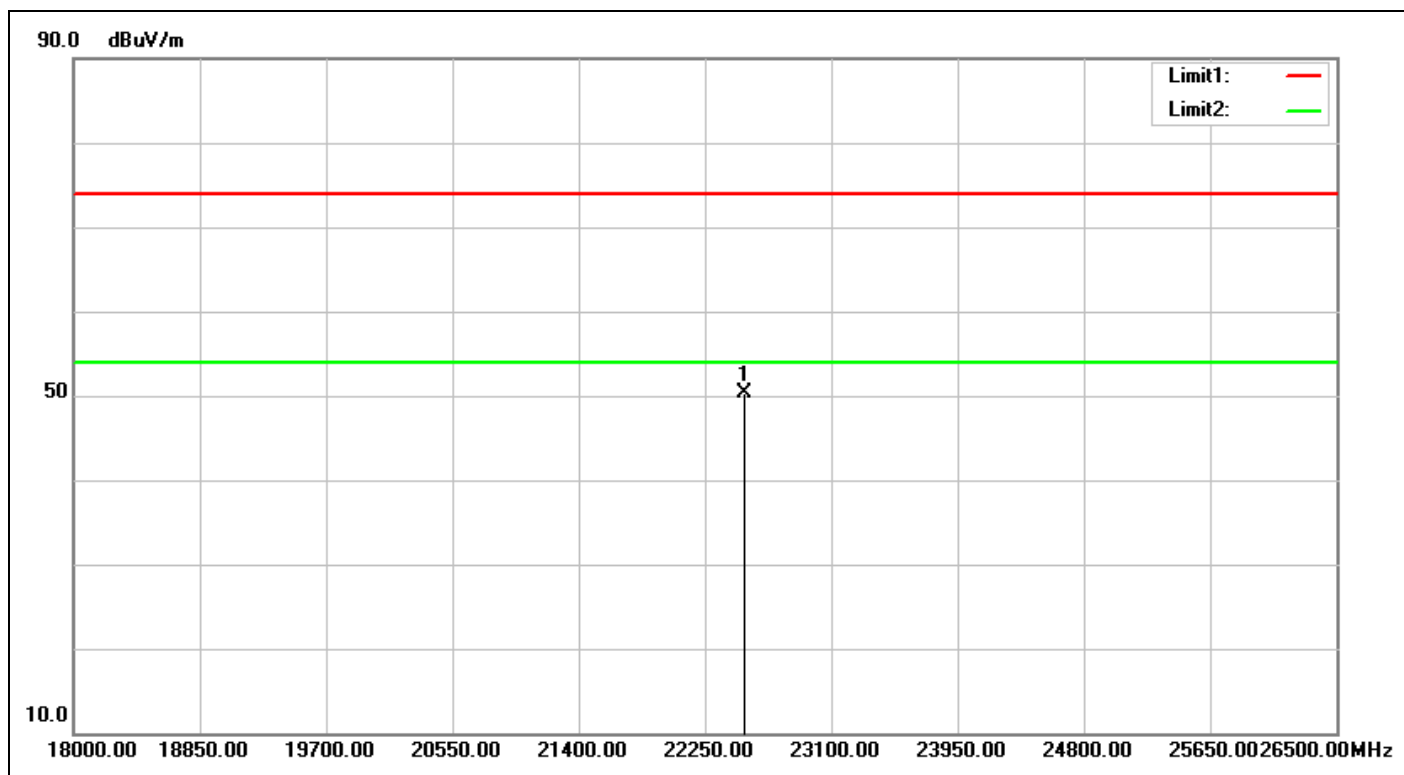
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:01:30
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1E		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21825.000	32.69	17.22	49.91	74.00	-24.09	peak			



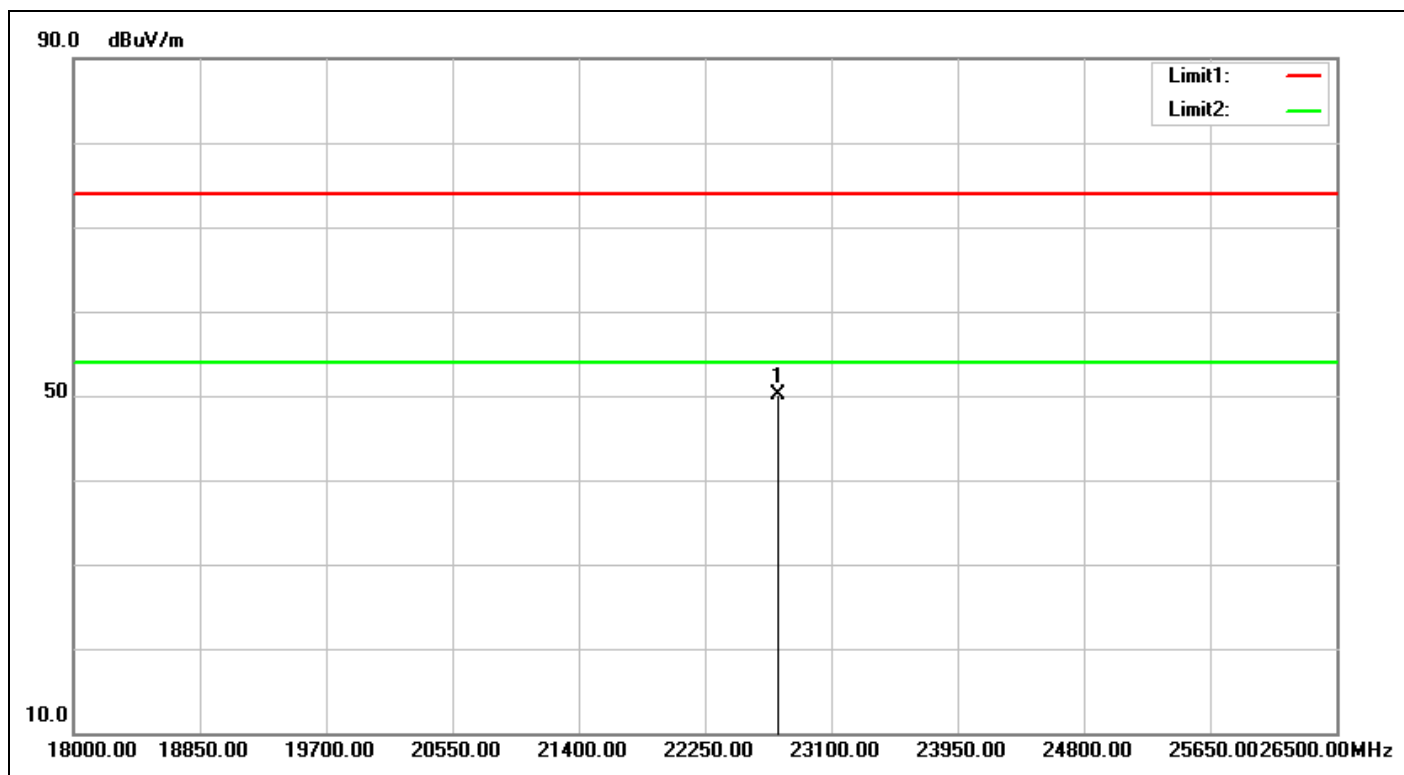
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:01:36
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2462-TX		
Remark:	Power Setting 1E		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21510.500	32.89	17.28	50.17	74.00	-23.83	peak			



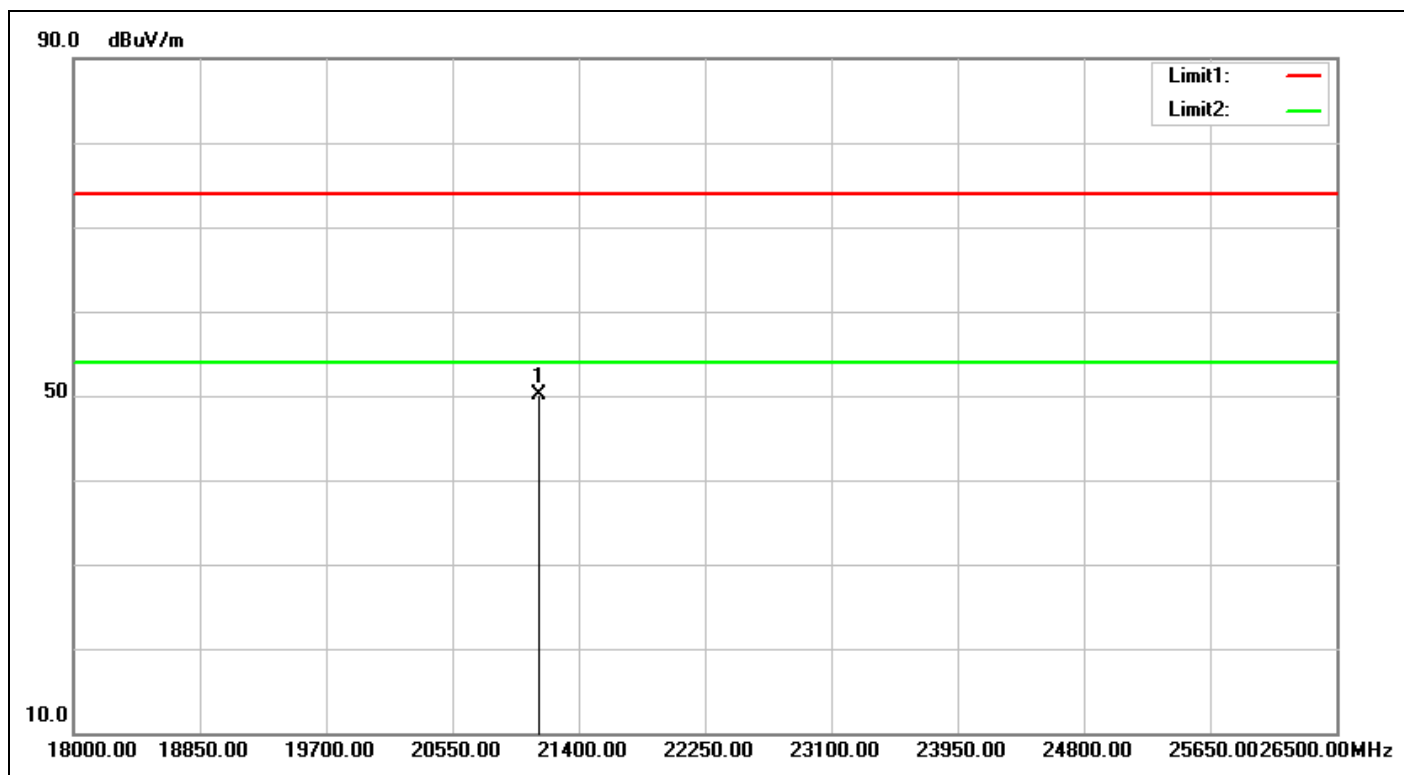
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:02:03
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1B		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22513.500	32.65	17.60	50.25	74.00	-23.75	peak			



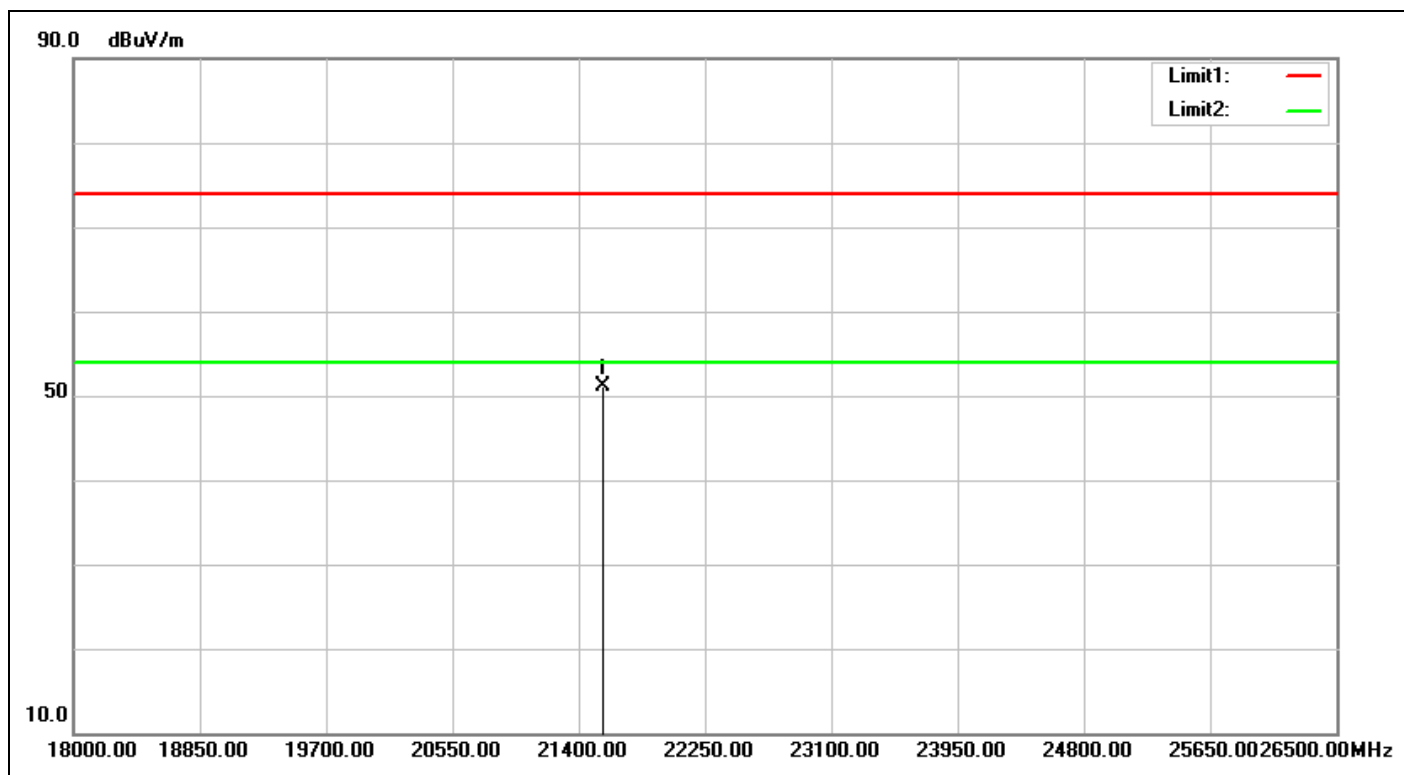
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:02:10
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2412-TX		
Remark:	Power Setting 1B		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22743.000	32.72	17.45	50.17	74.00	-23.83	peak			



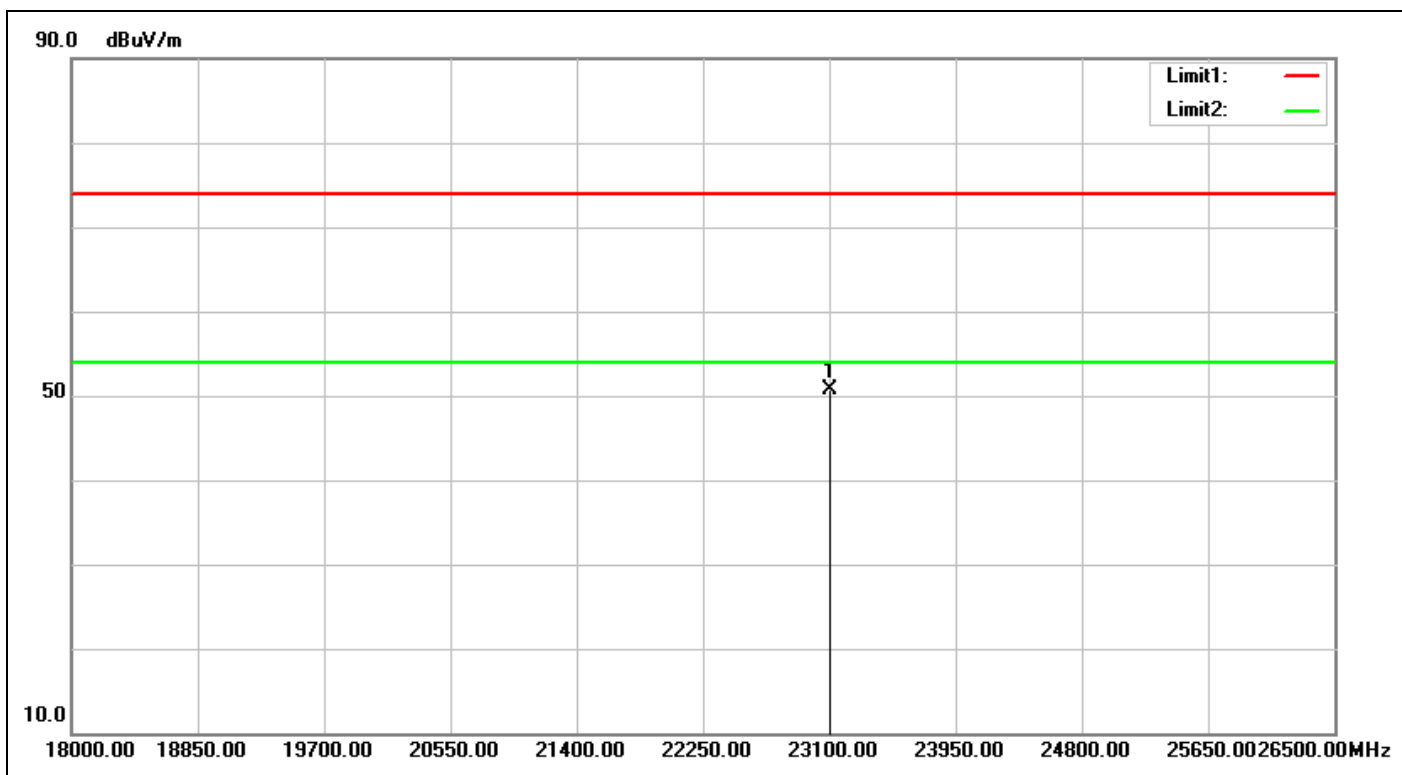
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:02:37
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 21		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21128.000	32.55	17.54	50.09	74.00	-23.91	peak			



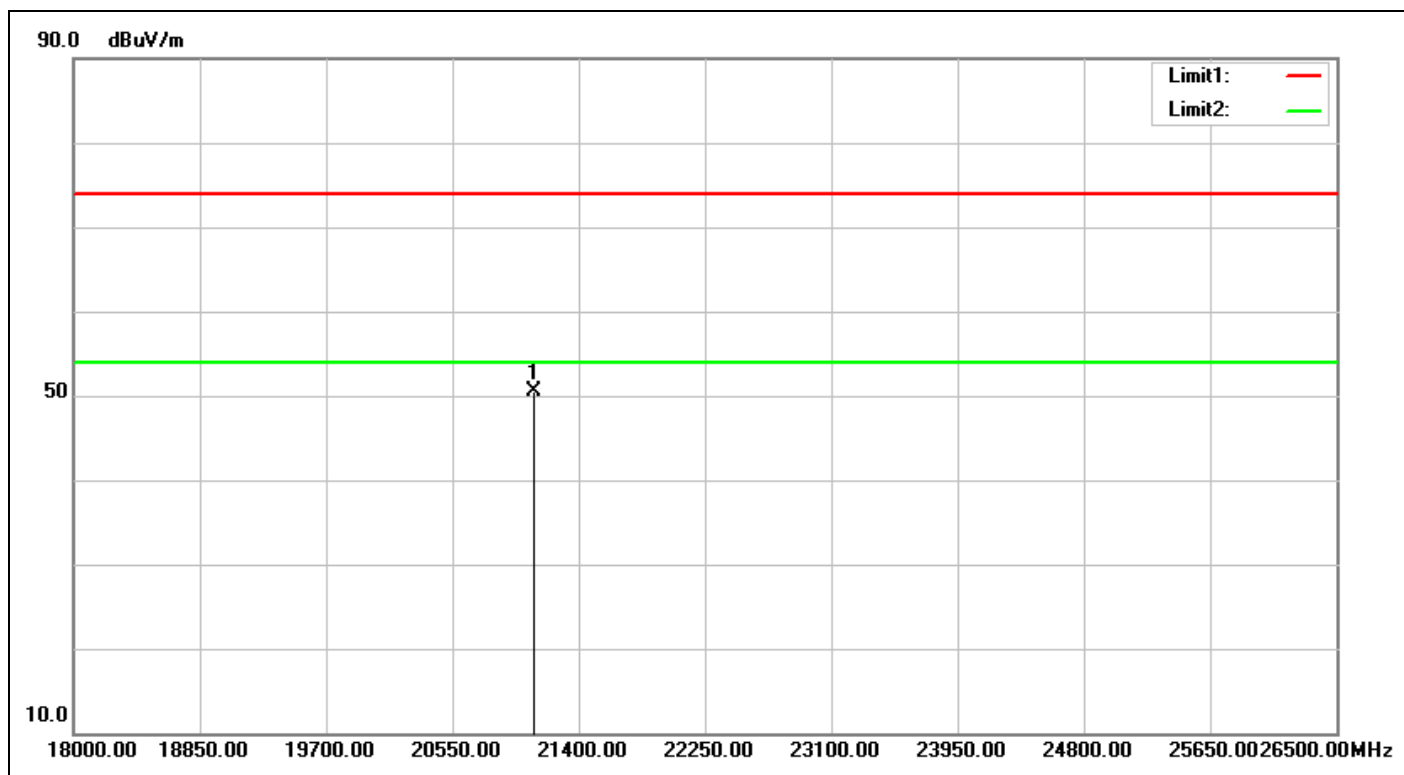
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:02:43
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2437-TX		
Remark:	Power Setting 21		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21561.500	32.85	18.35	51.20	74.00	-22.80	peak			



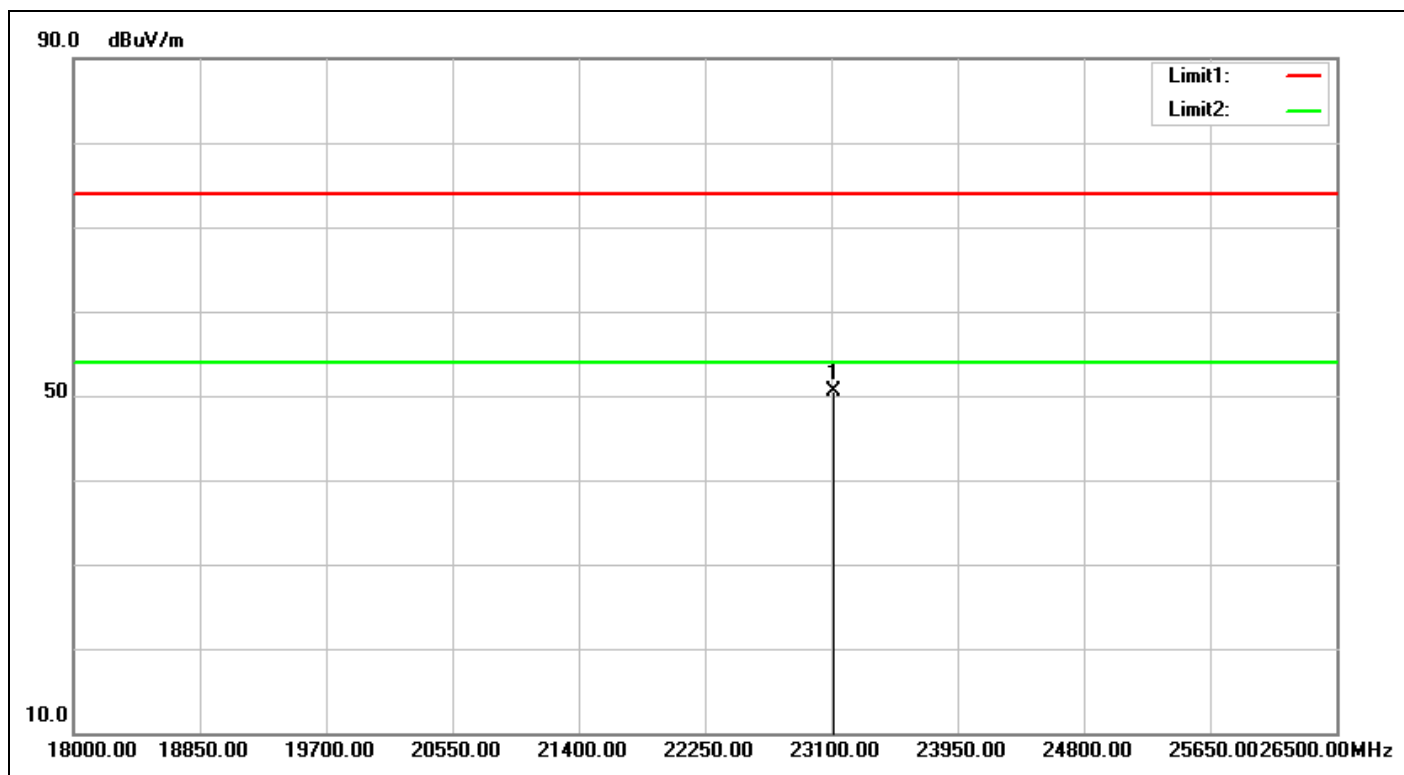
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:03:14
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 1B		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23100.000	32.89	17.81	50.70	74.00	-23.30	peak			



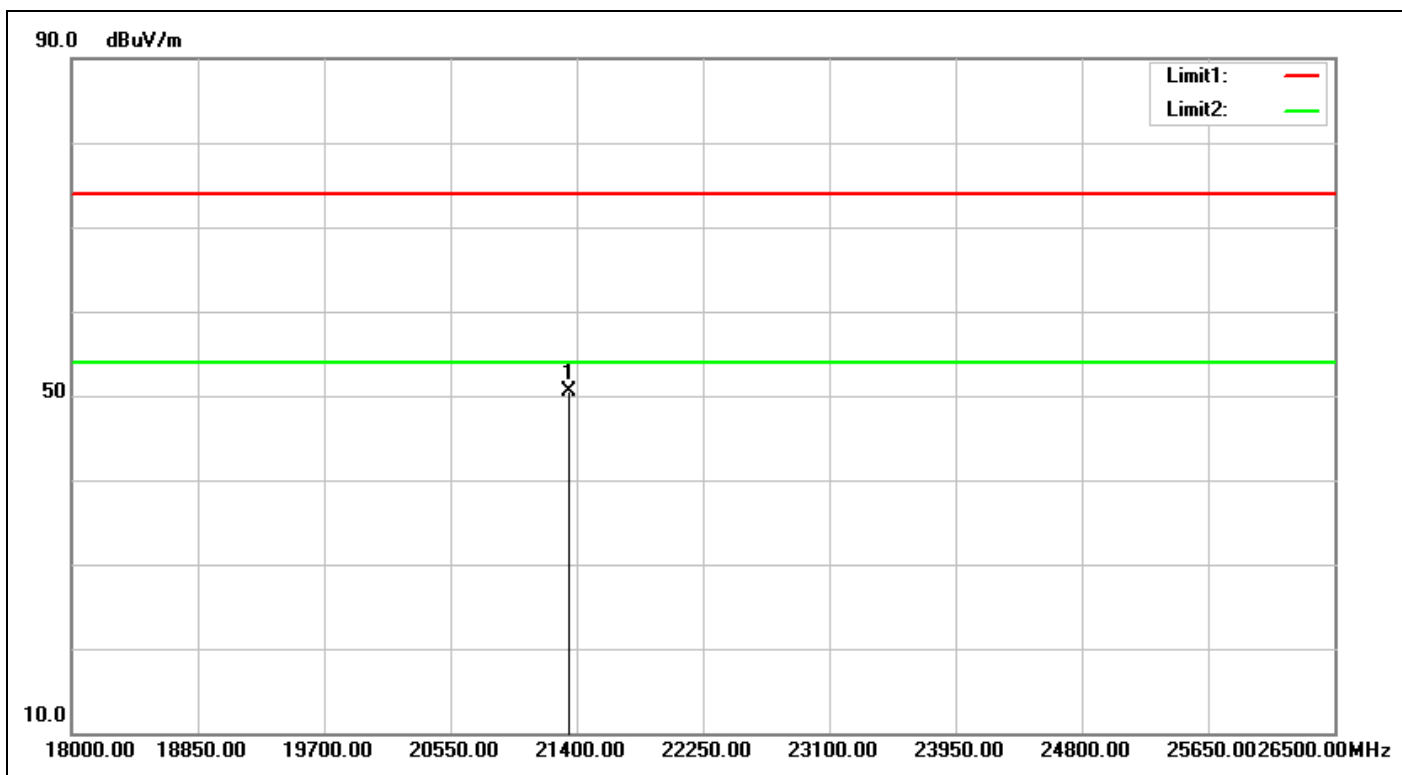
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:03:20
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	G-2462-TX		
Remark:	Power Setting 1B		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21102.500	32.53	17.91	50.44	74.00	-23.56	peak			



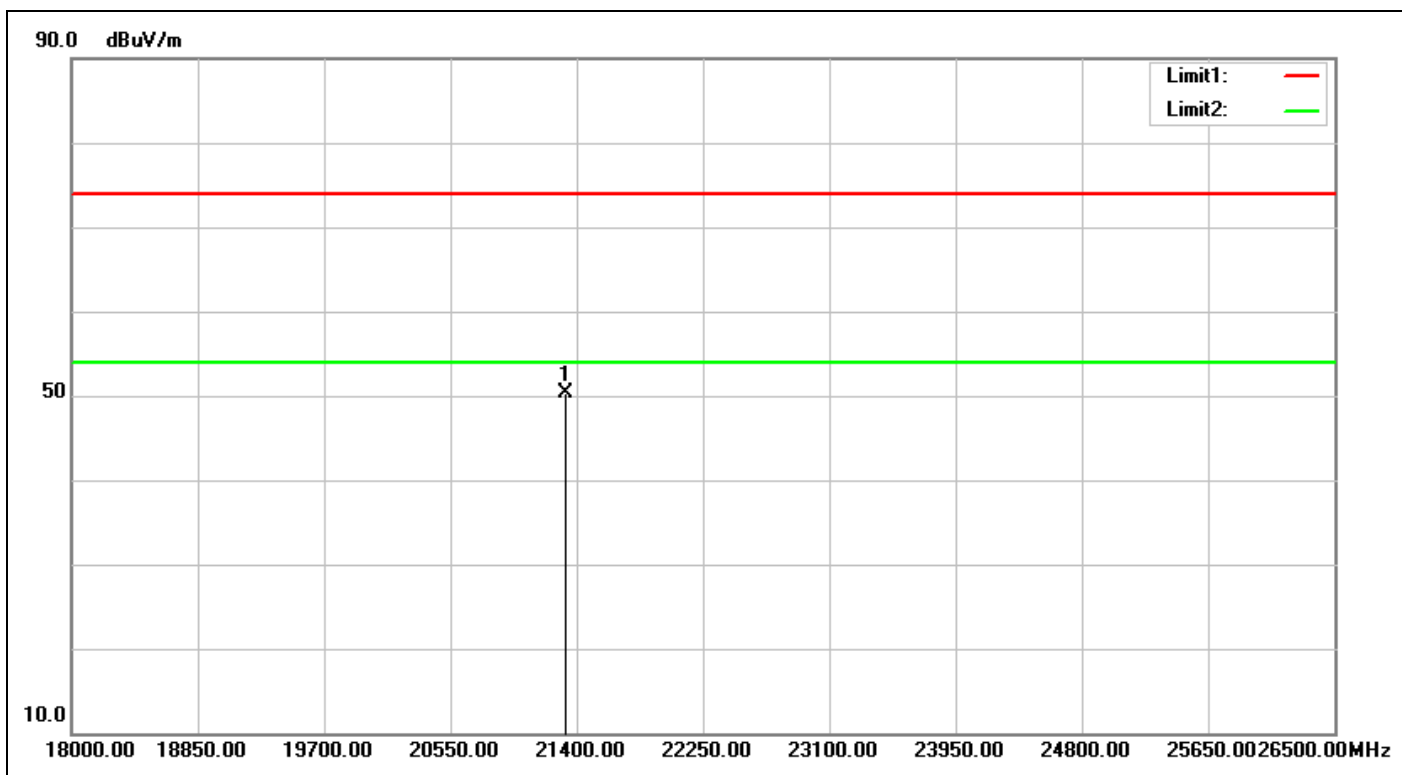
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:03:48
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 15 15		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23117.000	32.91	17.65	50.56	74.00	-23.44	peak			



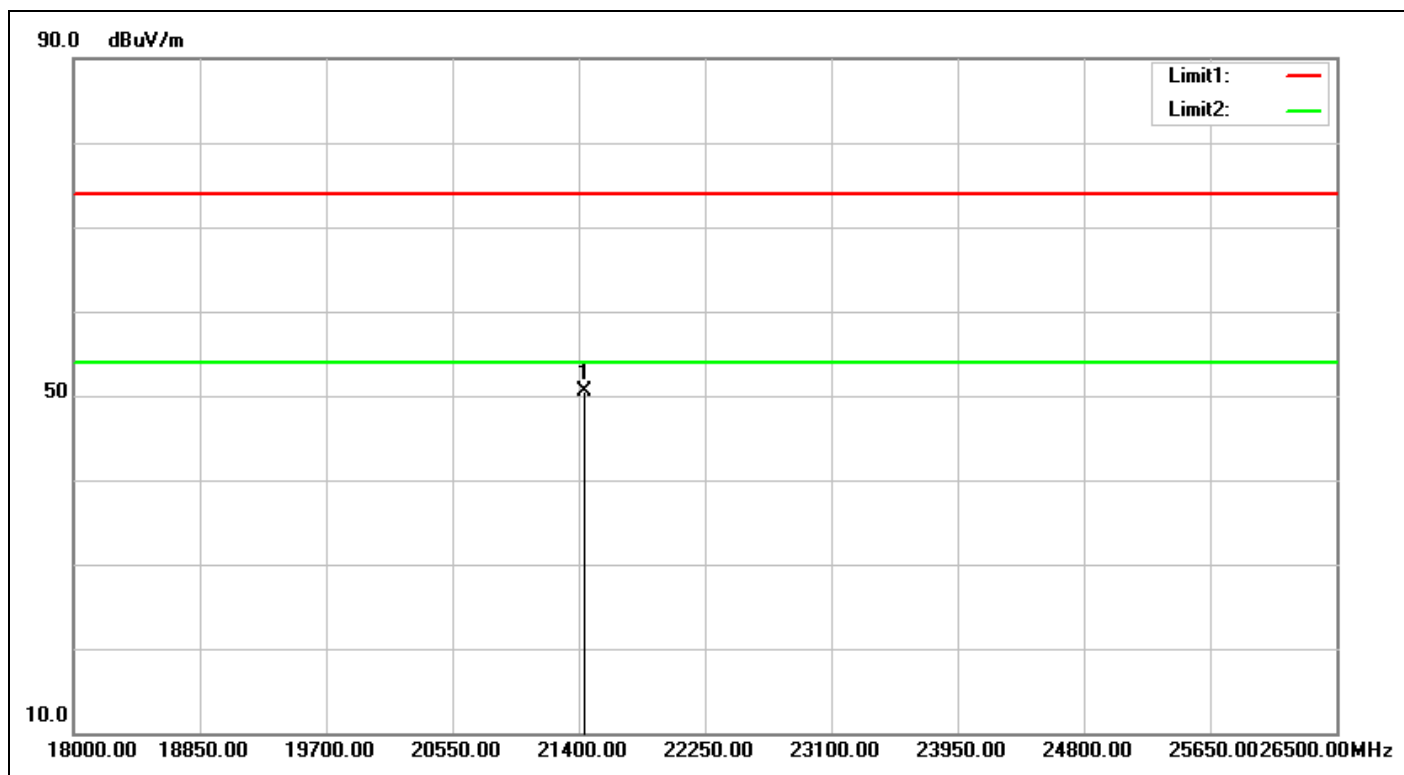
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:03:55
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2412-TX		
Remark:	Power Setting 15 15		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21349.000	32.75	17.85	50.60	74.00	-23.40	peak			



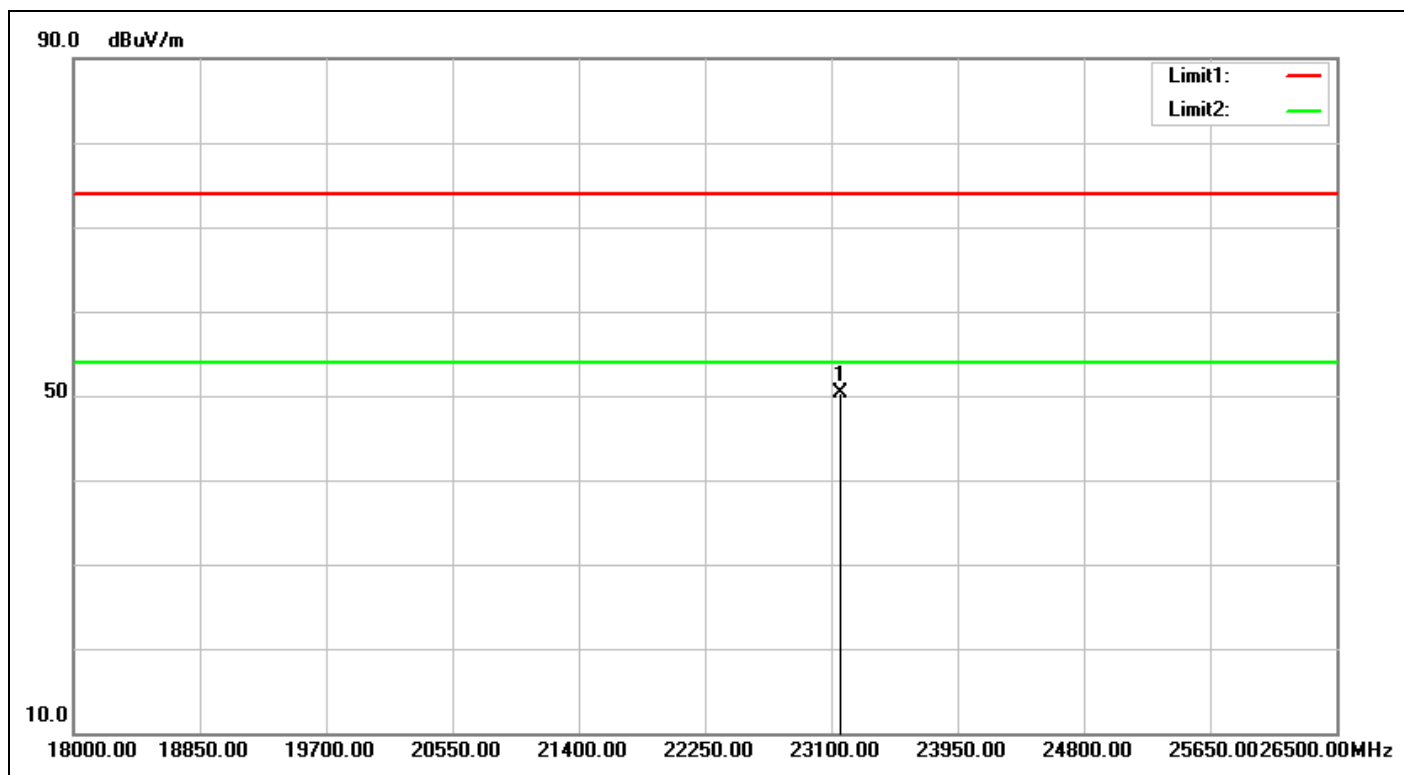
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:04:20
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 18 18		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21323.500	32.73	17.58	50.31	74.00	-23.69	peak			



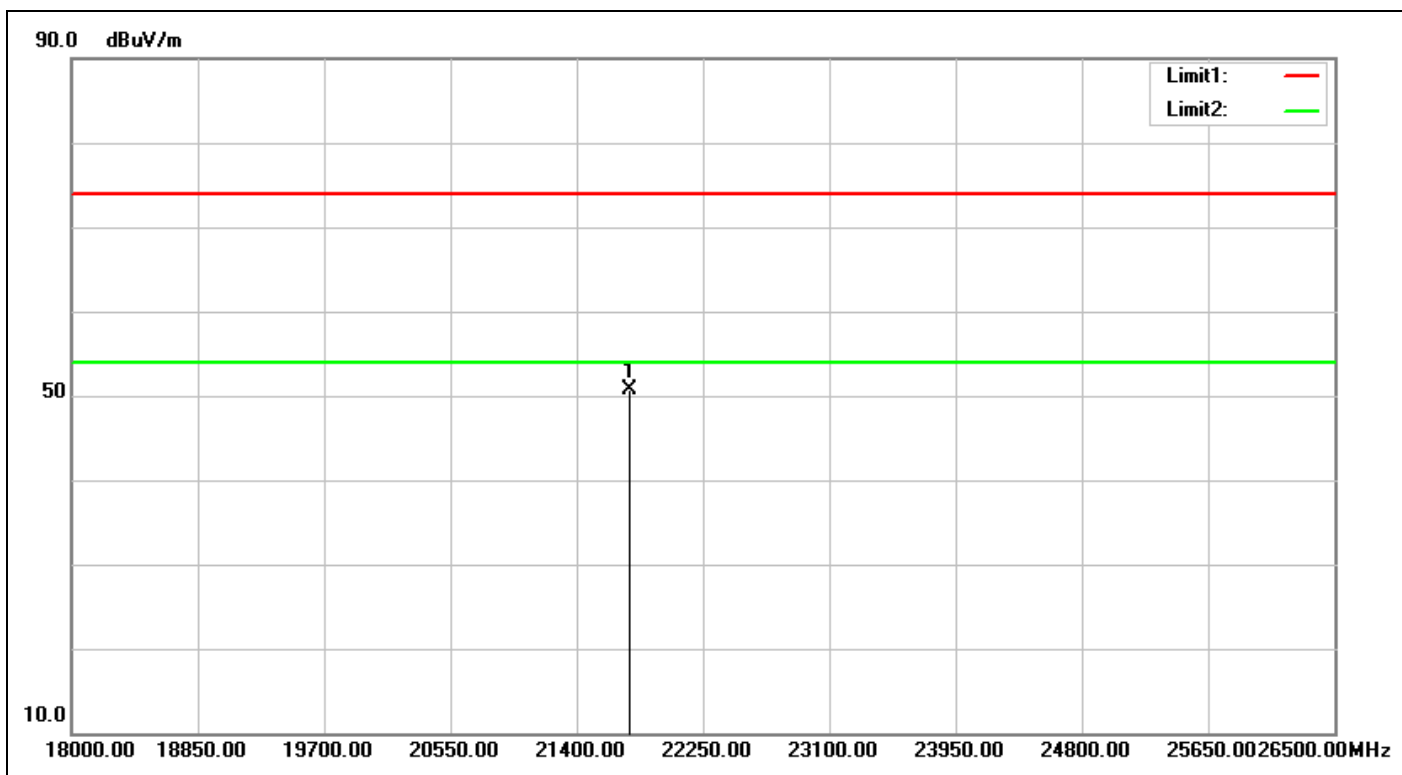
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:04:26
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2437-TX		
Remark:	Power Setting 18 18		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21442.500	32.84	17.60	50.44	74.00	-23.56	peak			



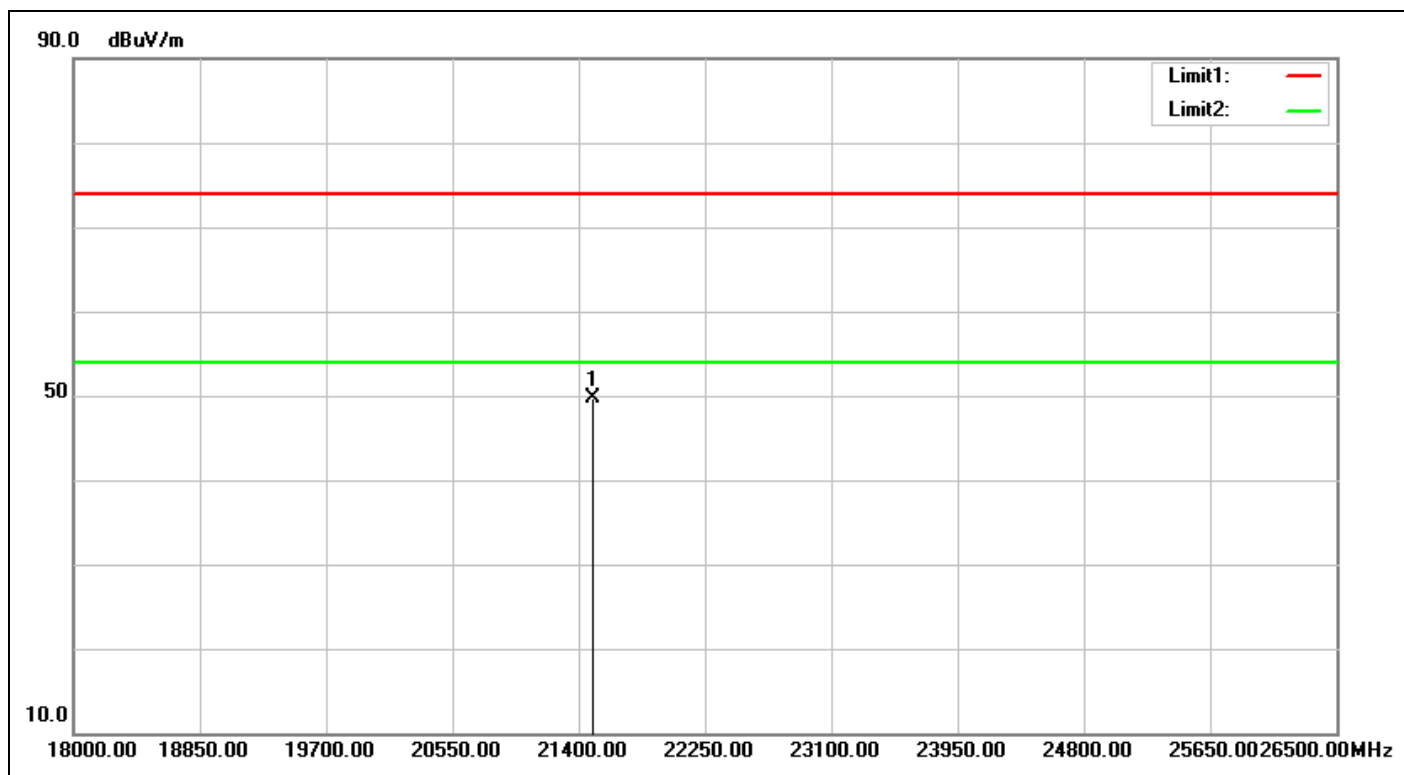
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:04:51
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 15 15		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23159.500	32.95	17.30	50.25	74.00	-23.75	peak			



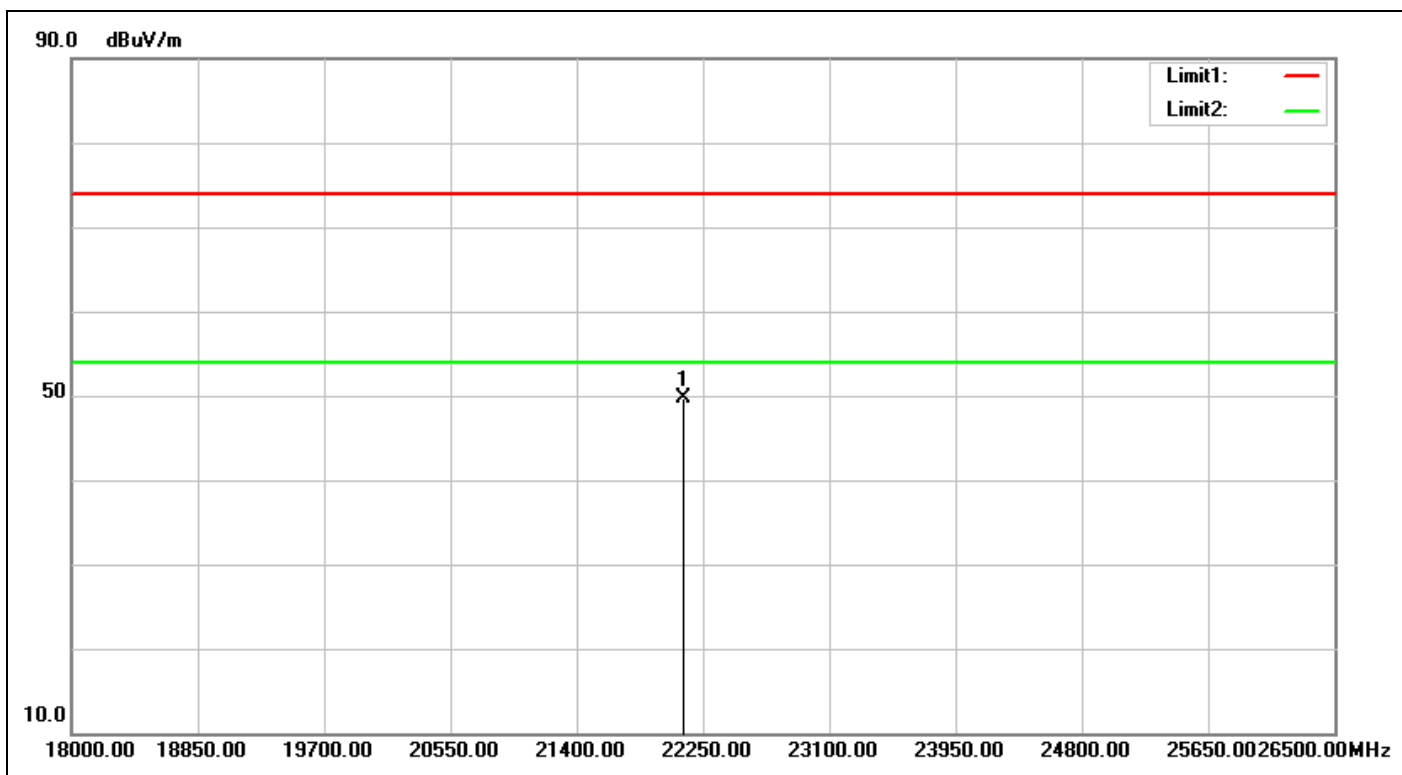
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:04:57
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N20-2462-TX		
Remark:	Power Setting 15 15		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21757.000	32.73	17.95	50.68	74.00	-23.32	peak			



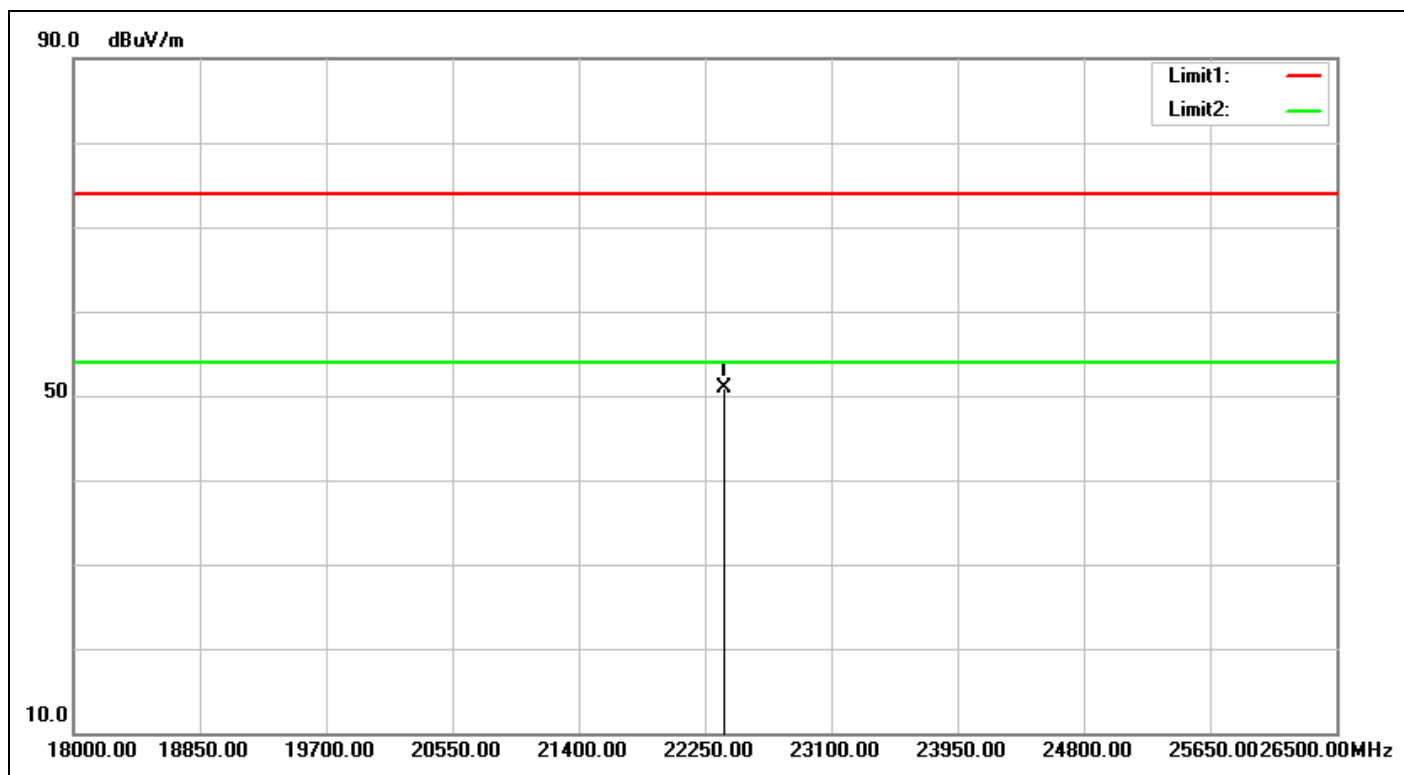
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:05:22
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2422-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	21493.500	32.89	16.85	49.74	74.00	-24.26	peak			



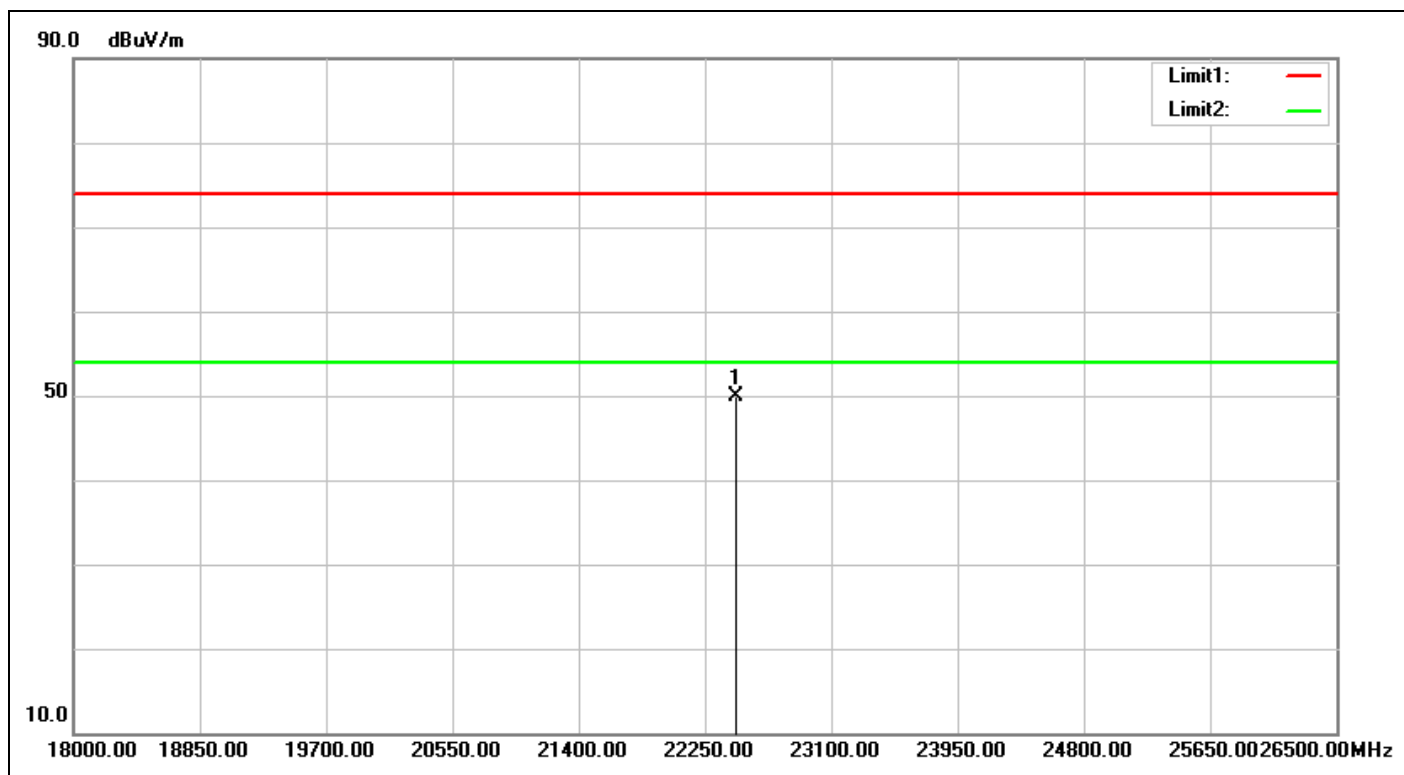
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:05:29
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2422-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	22122.500	32.60	17.20	49.80	74.00	-24.20	peak			



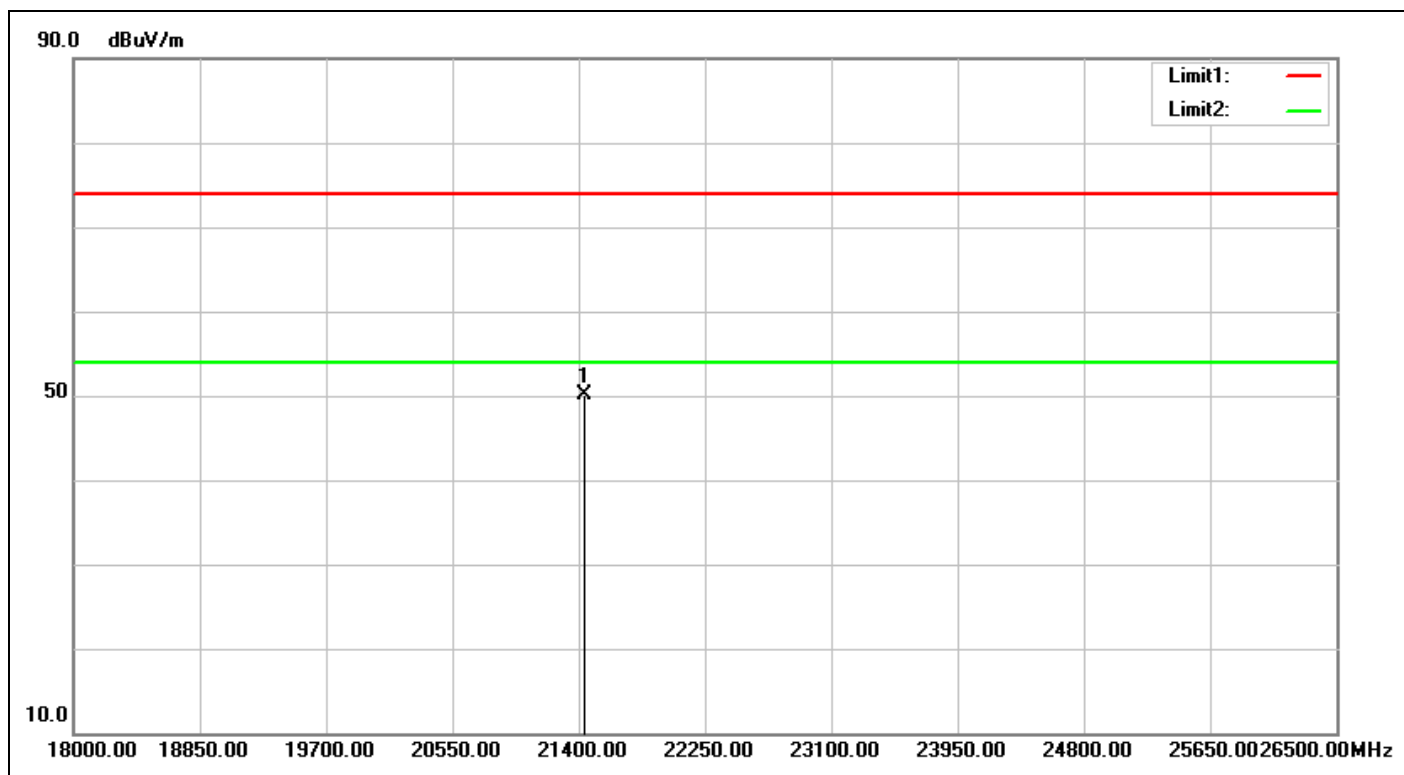
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:05:54
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	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	22377.500	32.63	18.25	50.88	74.00	-23.12	peak			



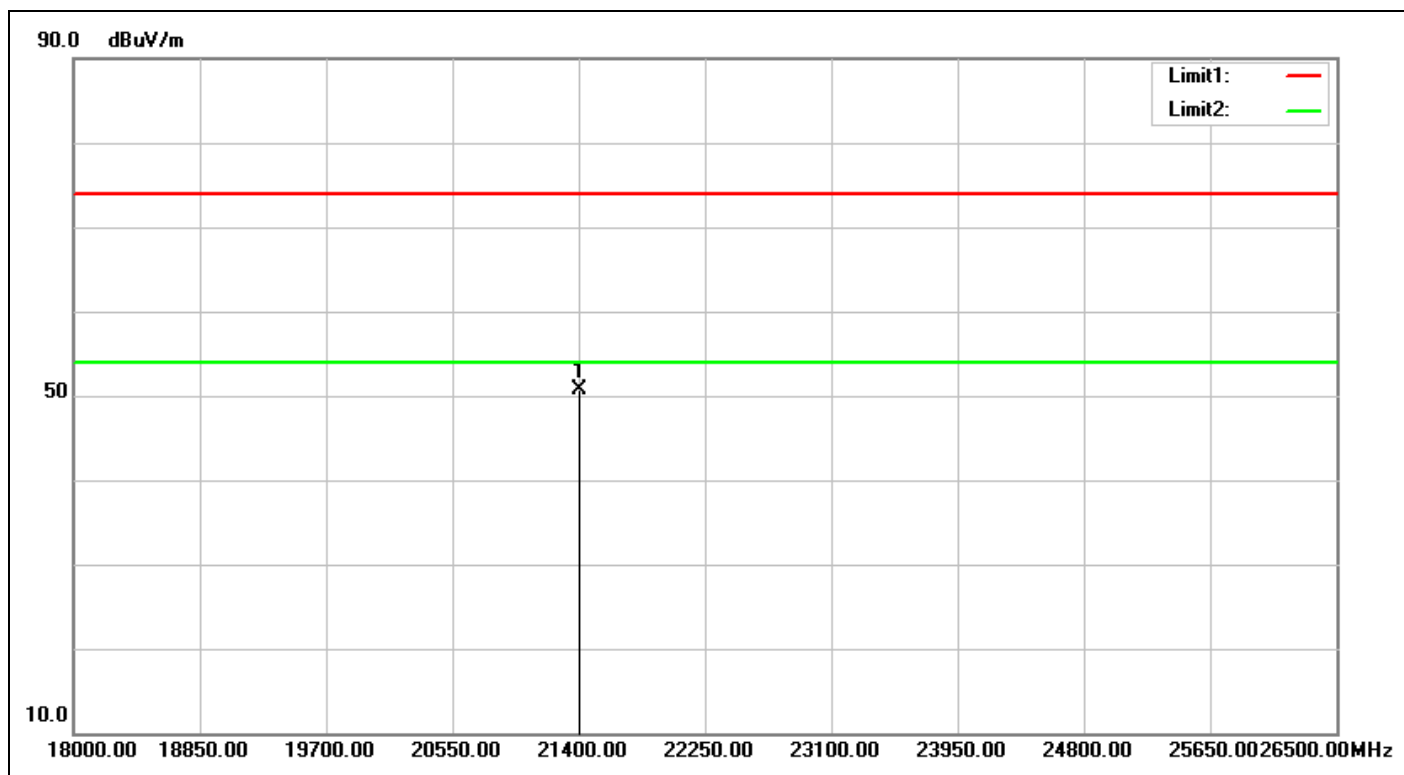
Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:06:01
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62 %
Model No.:	WFU033	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	22454.000	32.63	17.29	49.92	74.00	-24.08	peak			



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:06:25
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 12 12		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21442.500	32.84	17.35	50.19	74.00	-23.81	peak			



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:06:32
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	N40-2452-TX		
Remark:	Power Setting 12 12		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21408.500	32.80	17.87	50.67	74.00	-23.33	peak			

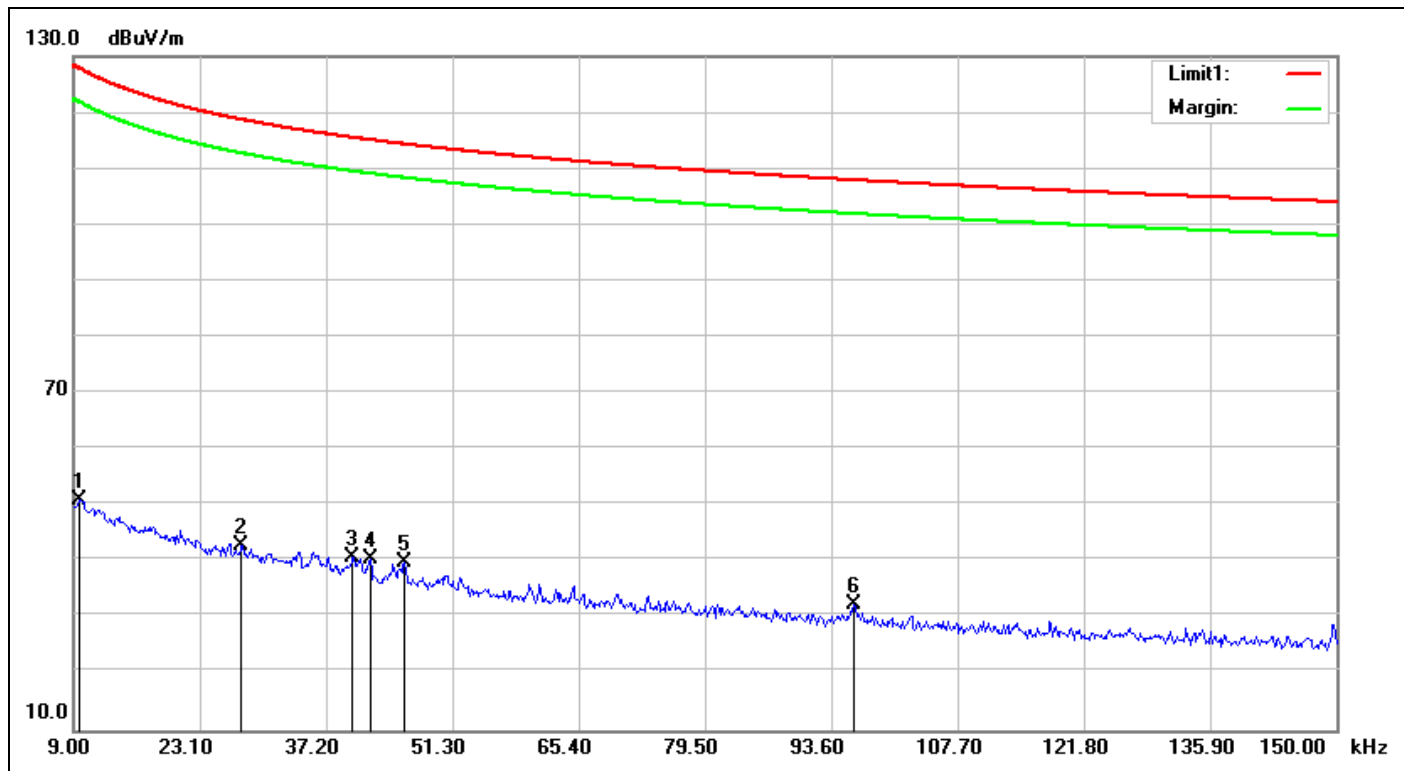
Spurious Emissions, TX Mode, 9k-30M



TUV Rheinland Taiwan Ltd.

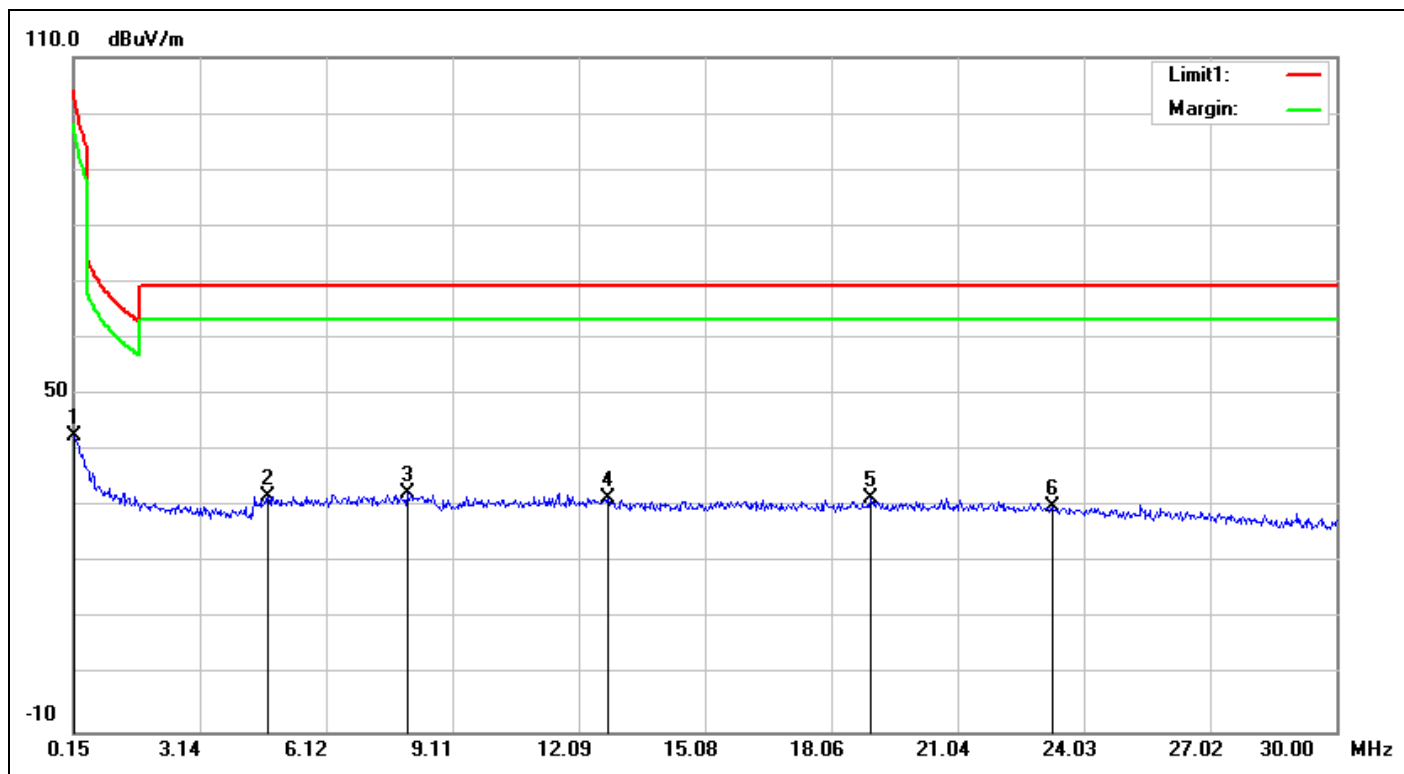
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/12 04:47:44
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	0.0095	19.73	31.33	51.06	128.03	-76.97	QP	100	322	
2	0.0277	20.11	22.77	42.88	118.74	-75.86	QP	100	191	
3	0.0401	19.78	21.06	40.84	115.53	-74.69	QP	100	103	
4	0.0421	19.71	20.85	40.56	115.11	-74.55	QP	100	274	
5	0.0459	19.57	20.35	39.92	114.36	-74.44	QP	100	103	
6	0.0961	19.15	13.23	32.38	107.94	-75.56	QP	100	40	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/12 04:50:25
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	0.1500	19.08	23.64	42.72	104.08	-61.36	QP	100	78	
2	4.7469	19.60	12.39	31.99	69.50	-37.51	QP	100	121	
3	8.0602	20.04	12.46	32.50	69.50	-37.00	QP	100	242	
4	12.7765	20.71	10.94	31.65	69.50	-37.85	QP	100	223	
5	18.9853	21.81	9.64	31.45	69.50	-38.05	QP	100	78	
6	23.2837	22.21	7.95	30.16	69.50	-39.34	QP	100	13	

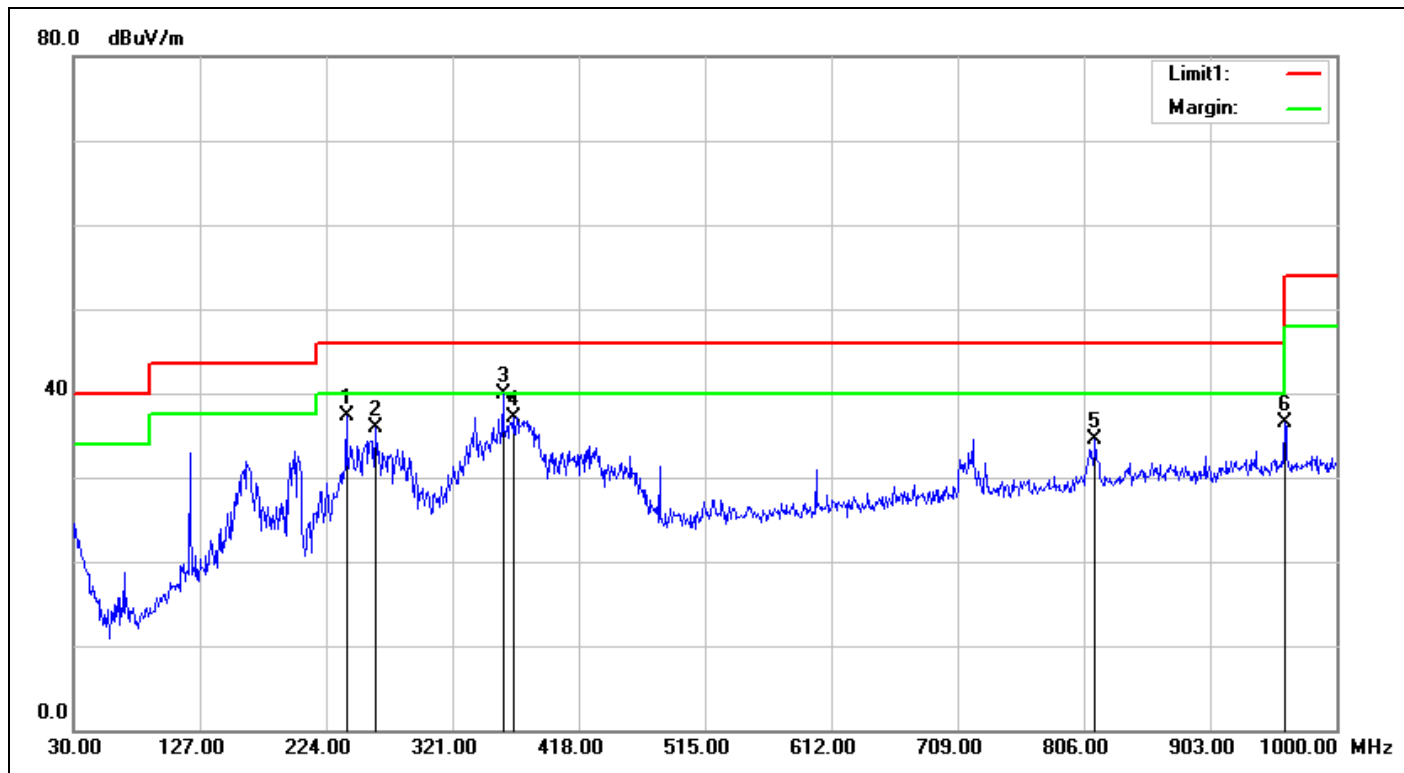
Spurious Emissions, TX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

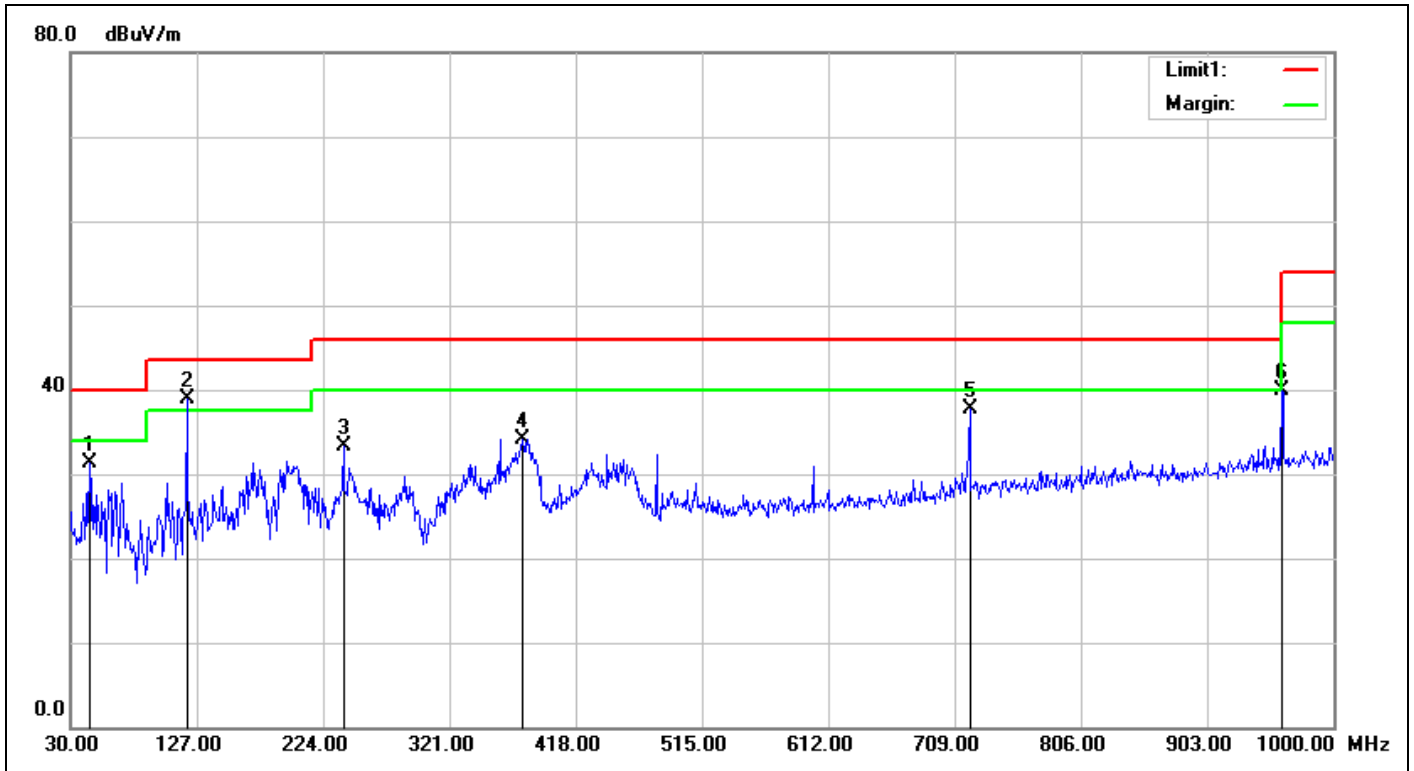
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:31:10
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	239.5200	-6.85	44.23	37.38	46.00	-8.62	QP	100	121	
2	261.8300	-5.01	40.88	35.87	46.00	-10.13	QP	100	128	
3	359.8000	-3.16	43.12	39.96	46.00	-6.04	QP	100	105	
4	367.5600	-3.03	40.17	37.14	46.00	-8.86	QP	100	288	
5	814.7300	3.05	31.52	34.57	46.00	-11.43	QP	100	190	
6	960.2300	5.54	30.95	36.49	54.00	-17.51	QP	100	292	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:32:04
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-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	44.5500	-8.54	39.76	31.22	40.00	-8.78	QP	100	111	
2	119.2400	-7.50	46.39	38.89	43.50	-4.61	QP	100	62	
3	239.5200	-6.85	40.16	33.31	46.00	-12.69	QP	100	151	
4	377.2600	-2.85	37.04	34.19	46.00	-11.81	QP	100	26	
5	720.6400	1.72	35.90	37.62	46.00	-8.38	QP	100	105	
6	960.2300	5.54	34.36	39.90	54.00	-14.10	QP	100	187	

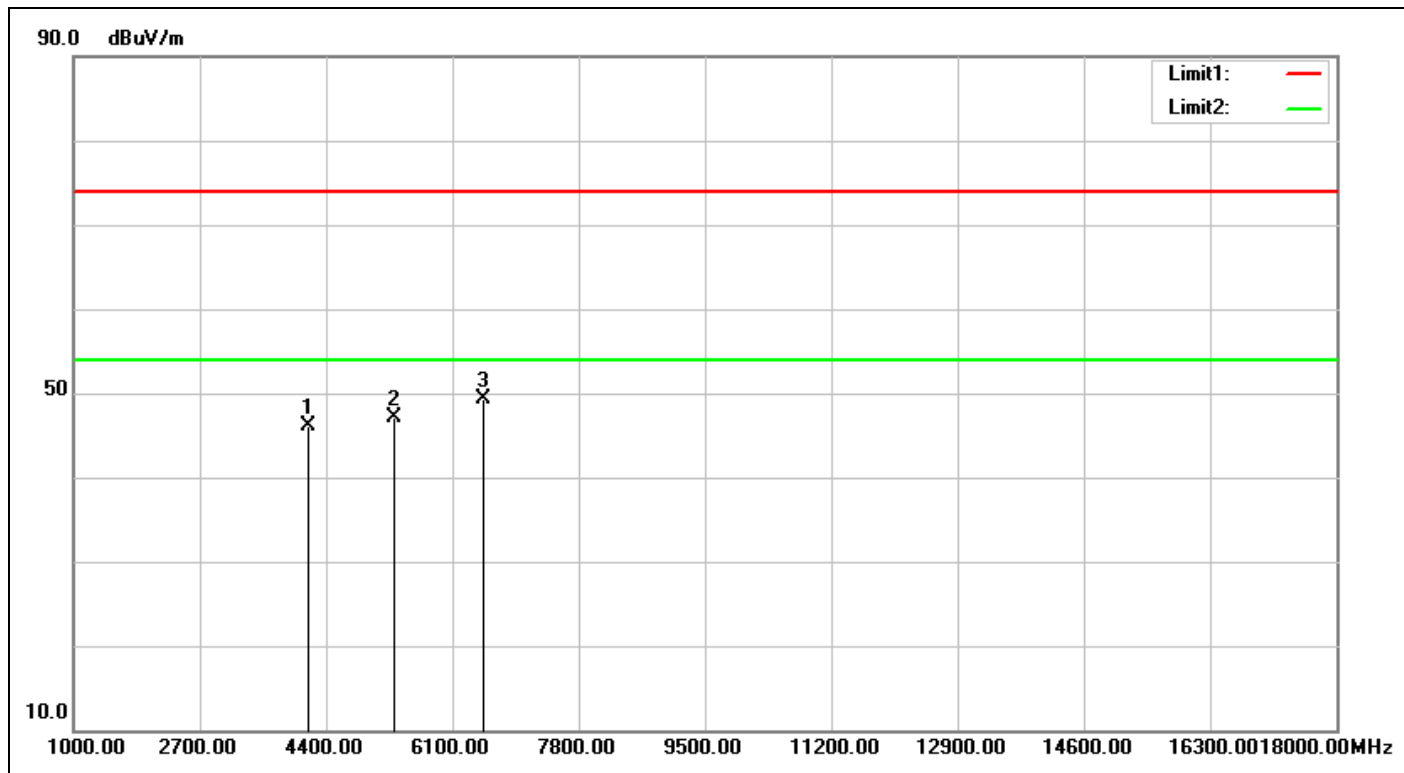
Spurious Emissions, RX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

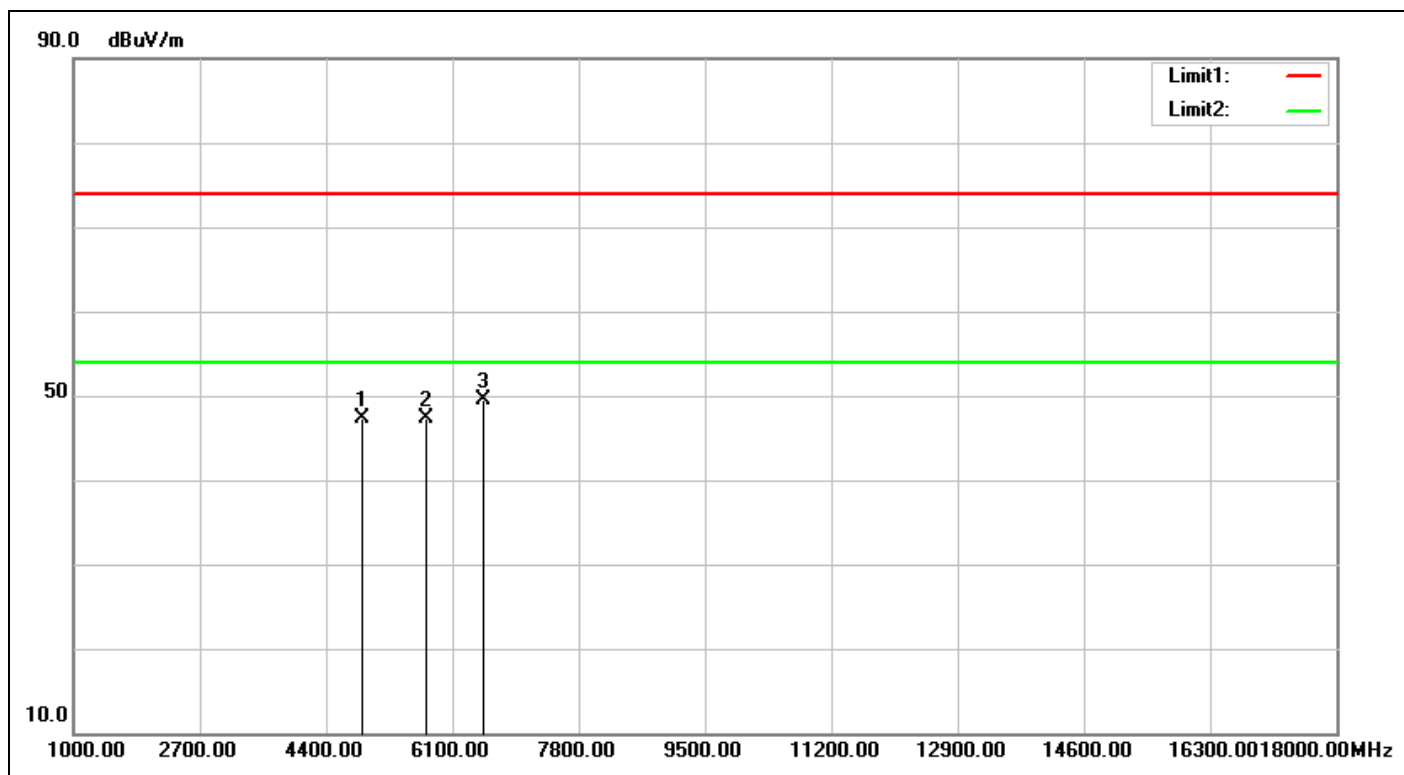
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 03:51:34
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4162.000	-5.27	51.44	46.17	74.00	-27.83	peak	100	266	
2	5318.000	-1.70	48.80	47.10	74.00	-26.90	peak	100	174	
3	6508.000	4.31	45.01	49.32	74.00	-24.68	peak	100	37	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 03:52:27
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4893.000	-3.39	50.62	47.23	74.00	-26.77	peak	100	251	
2	5743.000	0.72	46.63	47.35	74.00	-26.65	peak	100	80	
3	6525.000	4.29	45.27	49.56	74.00	-24.44	peak	100	74	

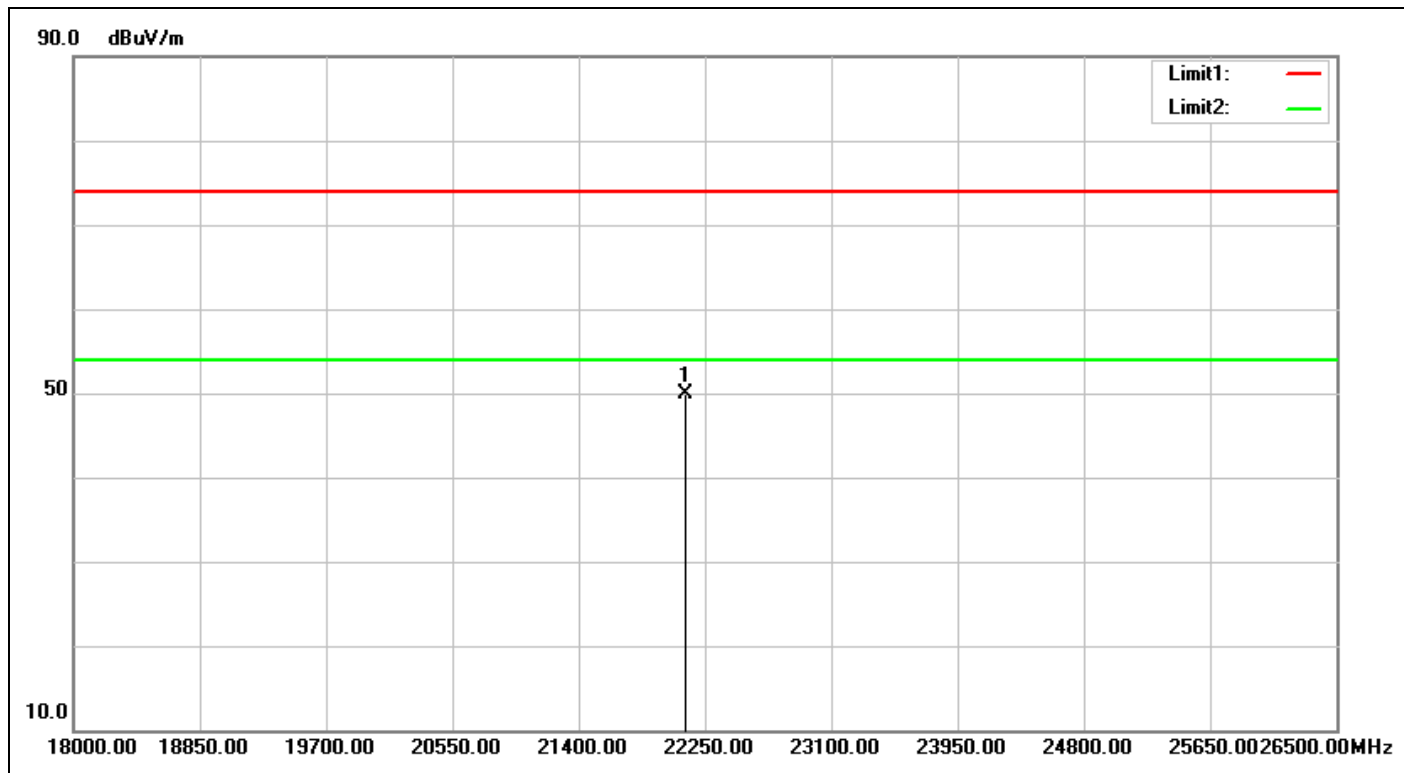
Spurious Emissions, RX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

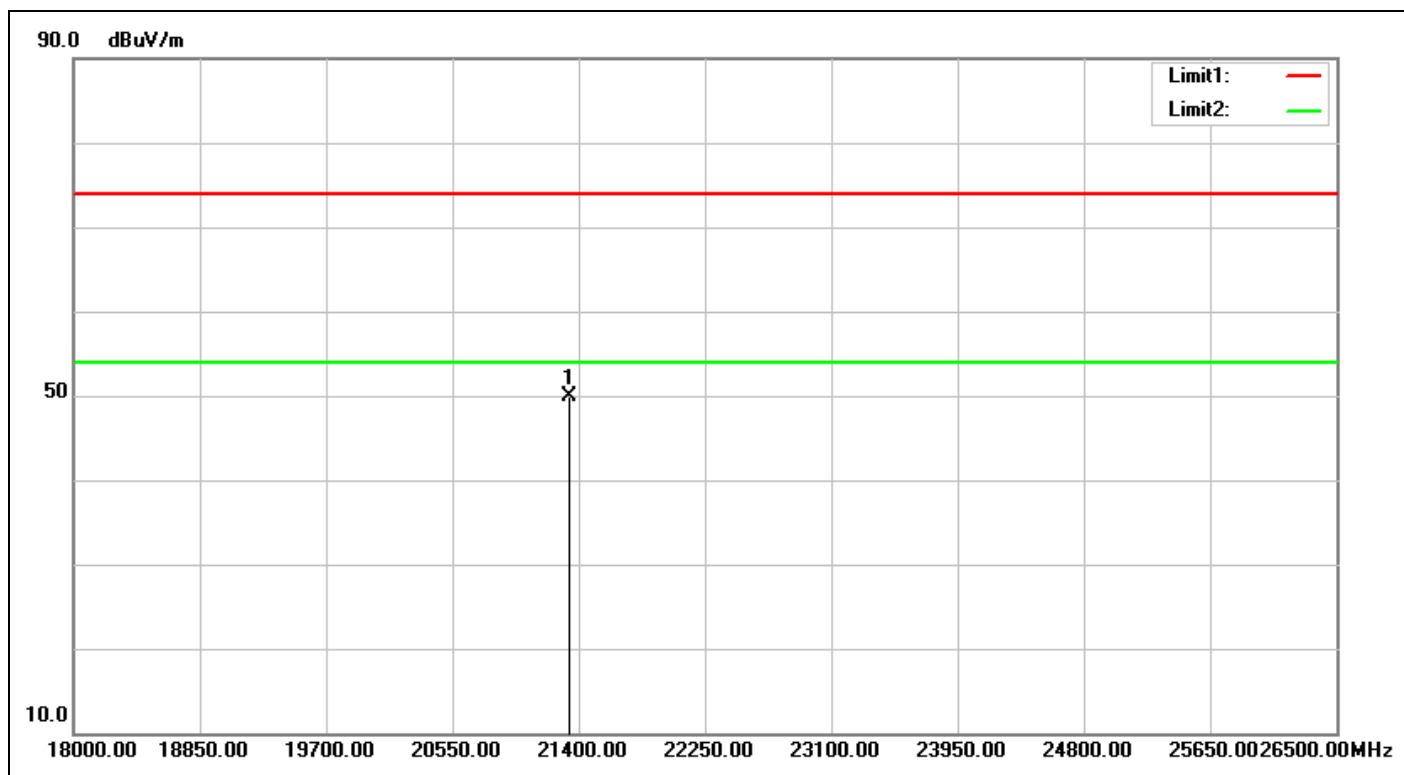
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:07:00
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22122.500	32.60	17.33	49.93	74.00	-24.07	peak			



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:07:07
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%):	22(°C)/62 %
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21332.000	32.74	17.22	49.96	74.00	-24.04	peak			

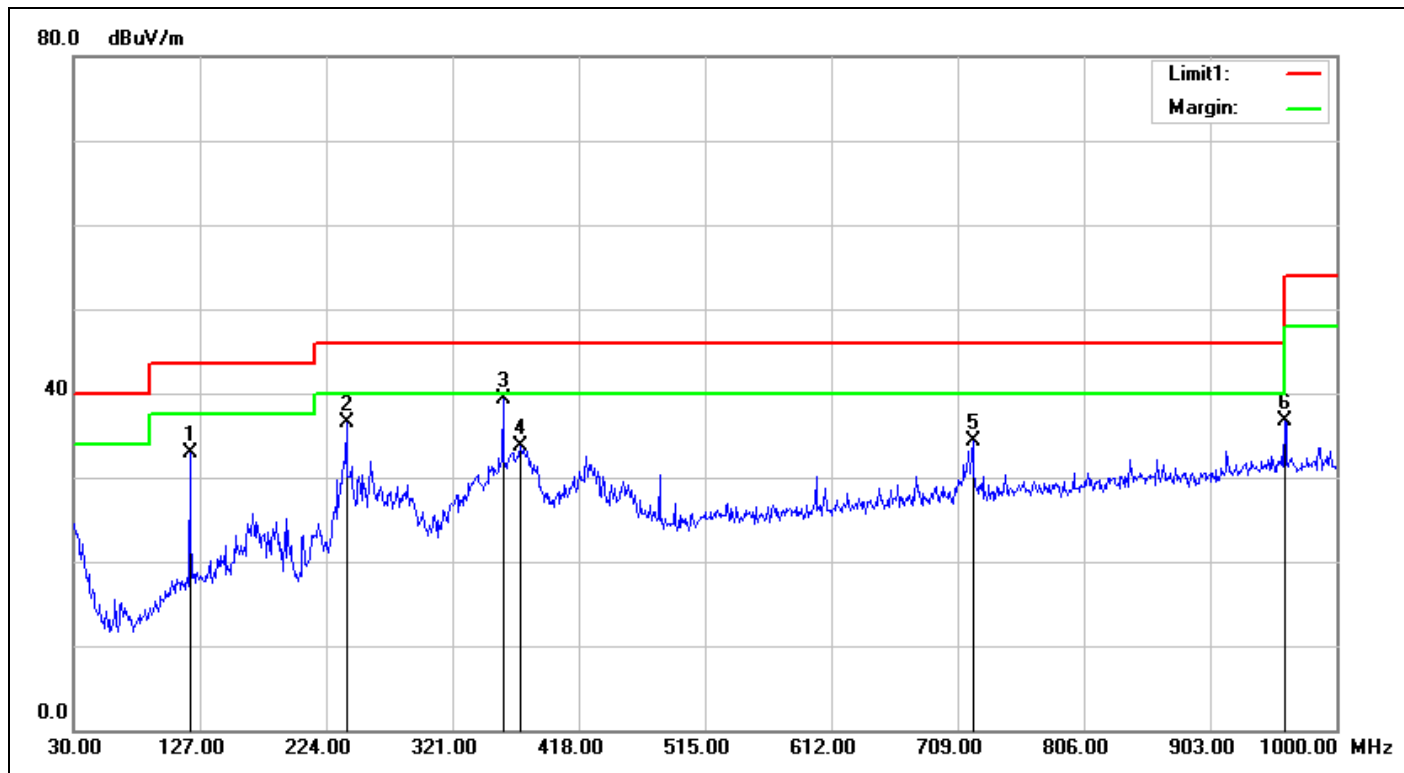
Spurious Emissions, RX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

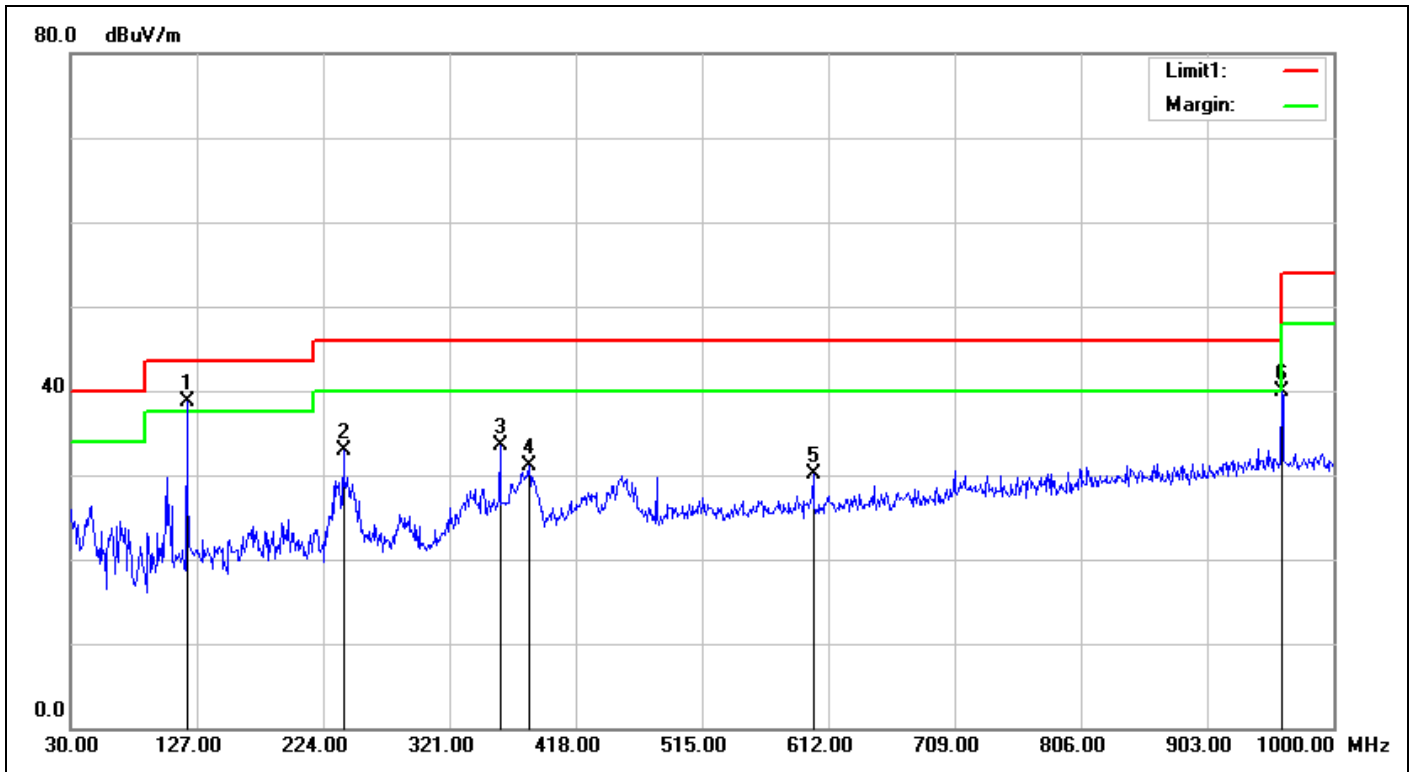
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/4/12 04:34:43
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

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	40.46	32.96	43.50	-10.54	QP	100	98	
2	239.5200	-6.85	43.45	36.60	46.00	-9.40	QP	100	114	
3	359.8000	-3.16	42.56	39.40	46.00	-6.60	QP	100	282	
4	373.3800	-2.92	36.61	33.69	46.00	-12.31	QP	100	289	
5	720.6400	1.72	32.52	34.24	46.00	-11.76	QP	100	144	
6	960.2300	5.54	31.25	36.79	54.00	-17.21	QP	100	295	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/4/12 04:35:36
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

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	46.17	38.67	43.50	-4.83	QP	100	121	
2	239.5200	-6.85	39.79	32.94	46.00	-13.06	QP	100	141	
3	359.8000	-3.16	36.65	33.49	46.00	-12.51	QP	100	62	
4	382.1100	-2.76	33.91	31.15	46.00	-14.85	QP	100	39	
5	600.3600	0.08	29.99	30.07	46.00	-15.93	QP	100	124	
6	960.2300	5.54	34.38	39.92	54.00	-14.08	QP	100	184	

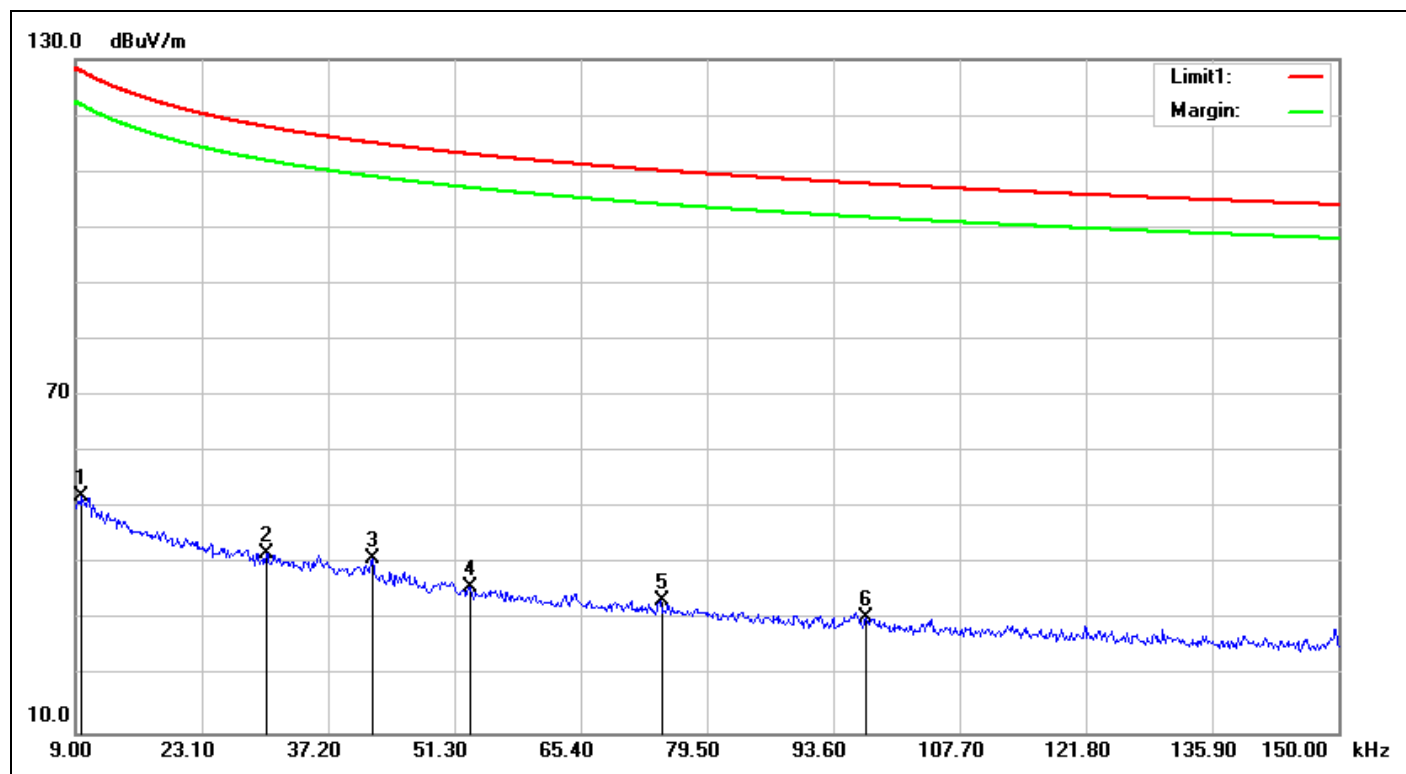
Spurious Emissions, RX Mode, 9k-30M



TUV Rheinland Taiwan Ltd.

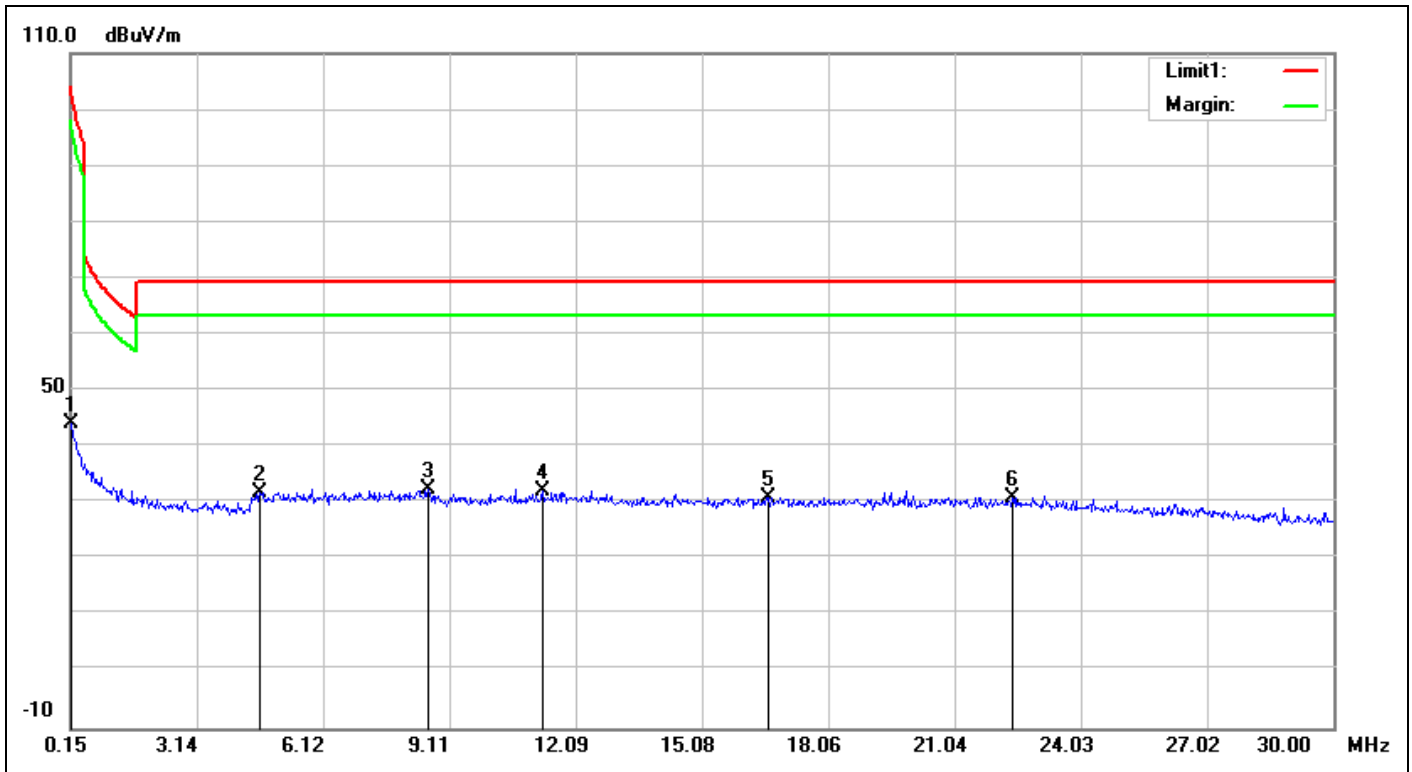
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/12 04:48:37
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%)	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0097	19.81	32.32	52.13	127.85	-75.72	QP	100	360	
2	0.0303	20.12	21.84	41.96	117.96	-76.00	QP	100	216	
3	0.0421	19.71	21.22	40.93	115.11	-74.18	QP	100	104	
4	0.0529	19.41	16.55	35.96	113.12	-77.16	QP	100	281	
5	0.0743	19.28	14.29	33.57	110.18	-76.61	QP	100	360	
6	0.0973	19.15	11.41	30.56	107.83	-77.27	QP	100	104	



Service No.:	114076042	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/4/12 04:51:18
Applicant:	Hon Hai Precision Industry Co., Ltd.	Test Rating:	DC 5V
Product:	802.11 a/b/g/n/ac module	Temp.(°C)/Hum.(%) :	22(°C)/62%
Model No.:	WFU033	Test Engineer:	Curry Chen
Test Mode:	B-2437-RX		
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	0.1799	19.06	25.17	44.23	102.50	-58.27	QP	100	334	
2	4.6275	19.53	12.35	31.88	69.50	-37.62	QP	100	200	
3	8.5976	20.09	12.33	32.42	69.50	-37.08	QP	100	39	
4	11.3139	20.45	11.81	32.26	69.50	-37.24	QP	100	295	
5	16.6571	21.39	9.53	30.92	69.50	-38.58	QP	100	128	
6	22.4181	22.15	8.95	31.10	69.50	-38.40	QP	100	256	

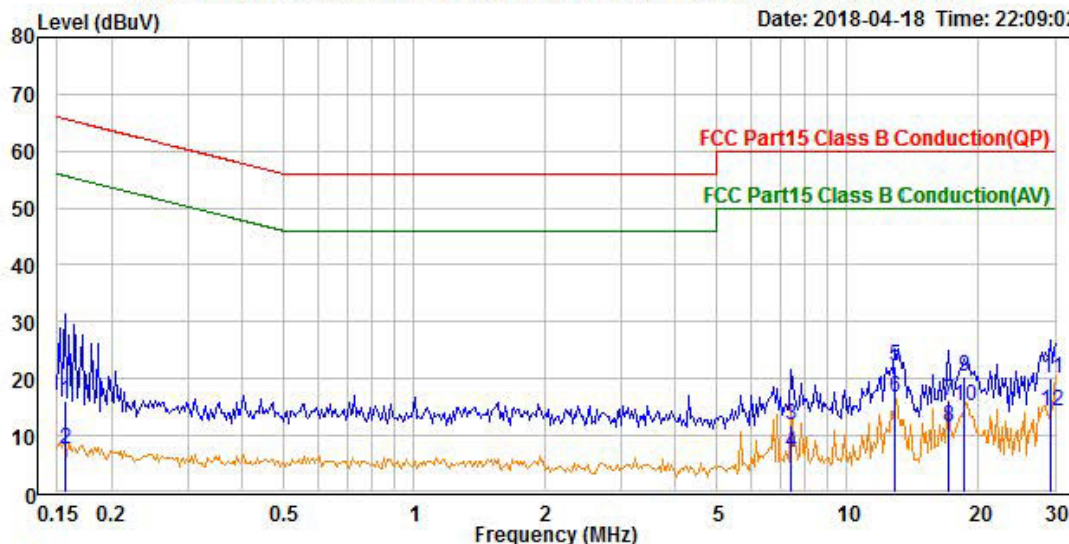
Mains Emissions, 150k-30M



TUV Rheinland Taiwan Ltd.
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
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Date: 2018-04-18 Time: 22:09:02



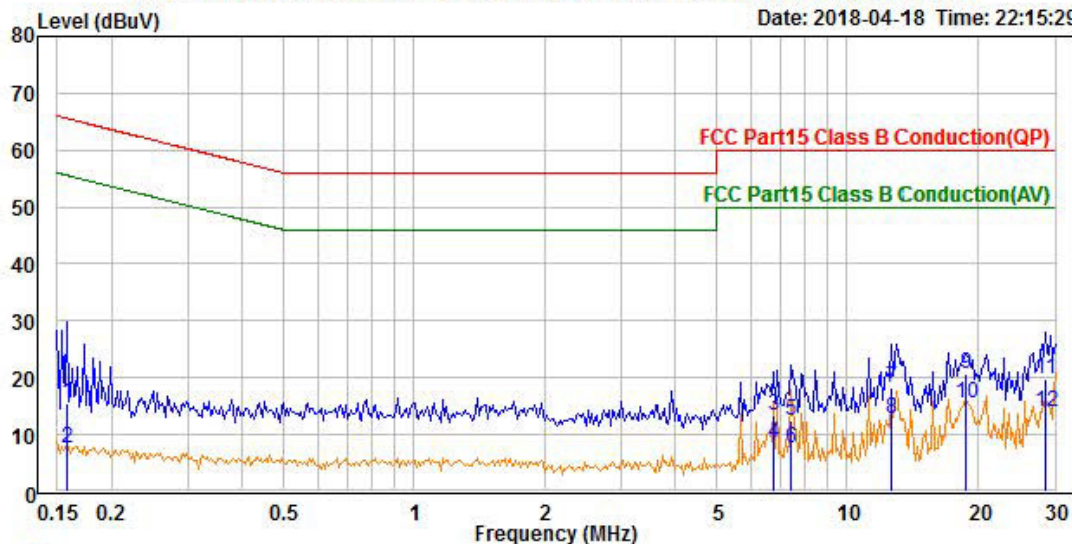
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Colin Lu
Applicant : Hon Hai
Product : 802.11 a/b/g/n/ac module
Model No. : WFU033
Test Rating : 5Vdc
Tmp/Hum : 21 °C / 47 %
Memo : (1) WIFI link

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.156	6.58	9.65	16.23	65.67	-49.44	QP
2	0.156	-2.18	9.65	7.47	55.67	-48.20	Average
3	7.460	1.95	9.77	11.72	60.00	-48.28	QP
4	7.460	-2.89	9.77	6.88	50.00	-43.12	Average
5	12.887	12.34	9.80	22.14	60.00	-37.86	QP
6	12.887	7.06	9.80	16.86	50.00	-33.14	Average
7	17.023	6.36	9.81	16.17	60.00	-43.83	QP
8	17.023	1.82	9.81	11.63	50.00	-38.37	Average
9	18.432	10.51	9.81	20.32	60.00	-39.68	QP
10	18.432	5.48	9.81	15.29	50.00	-34.71	Average
11	29.409	10.43	9.79	20.22	60.00	-39.78	QP
12	29.409	4.38	9.79	14.17	50.00	-35.83	Average

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Date: 2018-04-18 Time: 22:15:29



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Colin Lu
Applicant : Hon Hai
Product : 802.11 a/b/g/n/ac module
Model No. : WFU033
Test Rating : 5Vdc
Tmp/Hum : 21 °C / 47 %
Memo : (1) WIFI link

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.158	5.74	9.66	15.40	65.59	-50.19	QP
2	0.158	-2.15	9.66	7.51	55.59	-48.08	Average
3	6.754	3.53	9.77	13.30	60.00	-46.70	QP
4	6.754	-1.26	9.77	8.51	50.00	-41.49	Average
5	7.460	2.62	9.78	12.40	60.00	-47.60	QP
6	7.460	-2.25	9.78	7.53	50.00	-42.47	Average
7	12.634	8.42	9.83	18.25	60.00	-41.75	QP
8	12.634	2.80	9.83	12.63	50.00	-37.37	Average
9	18.617	10.66	9.87	20.53	60.00	-39.47	QP
10	18.617	5.73	9.87	15.60	50.00	-34.40	Average
11	28.545	9.94	9.89	19.83	60.00	-40.17	QP
12	28.545	4.23	9.89	14.12	50.00	-35.88	Average