

Test Report No.50108650 001

Appendix D: Radiated Spurious Emission Data

(File: 50108650AppendixD)

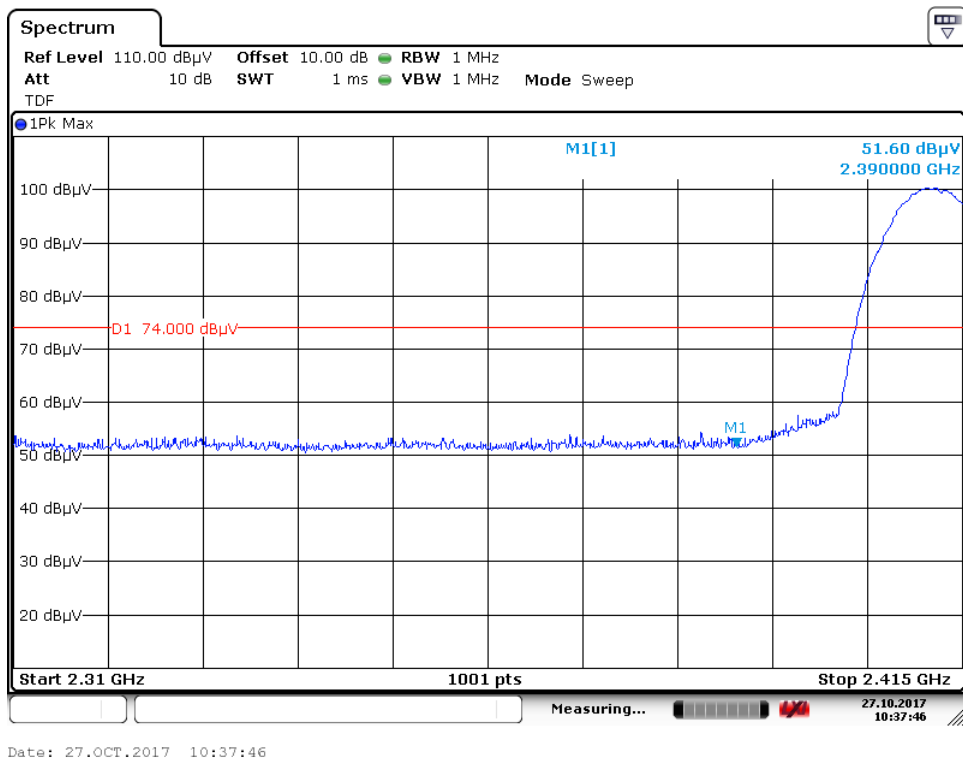
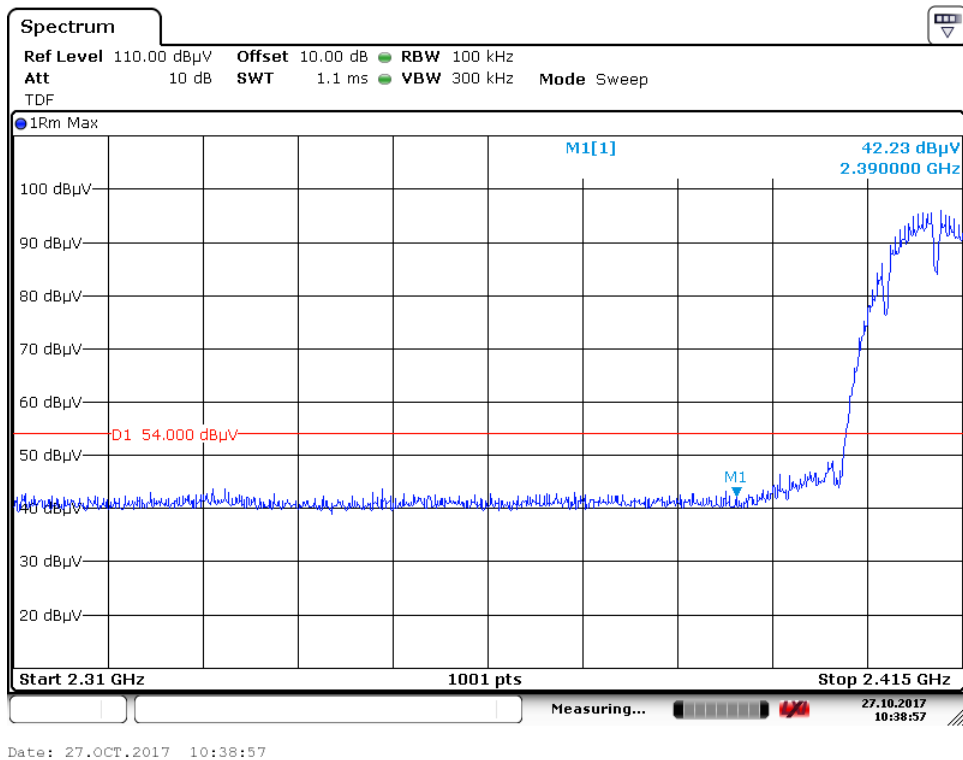
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Radiated Emissions, Band Edges, 2.35-2.5G

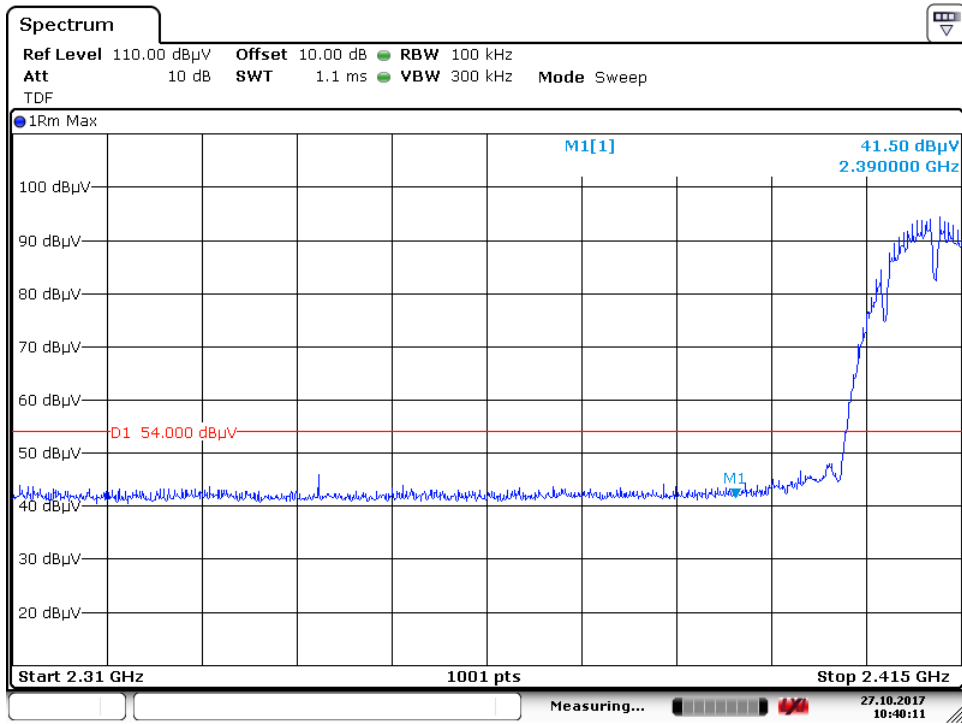
Radiated Bandedge 11b

Low Channel (Hor)

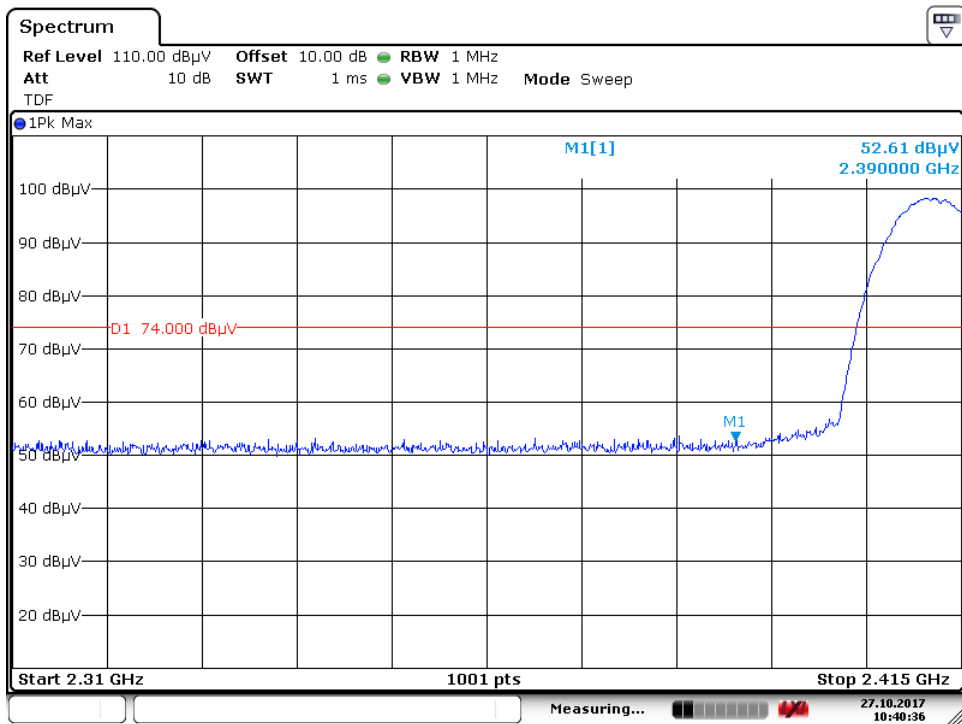


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



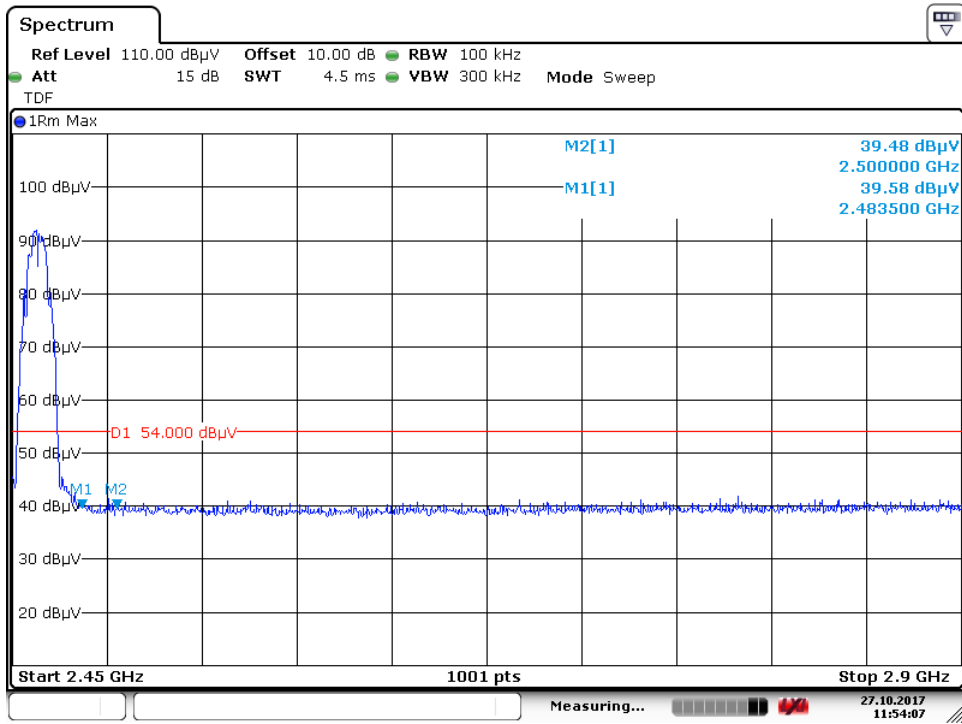
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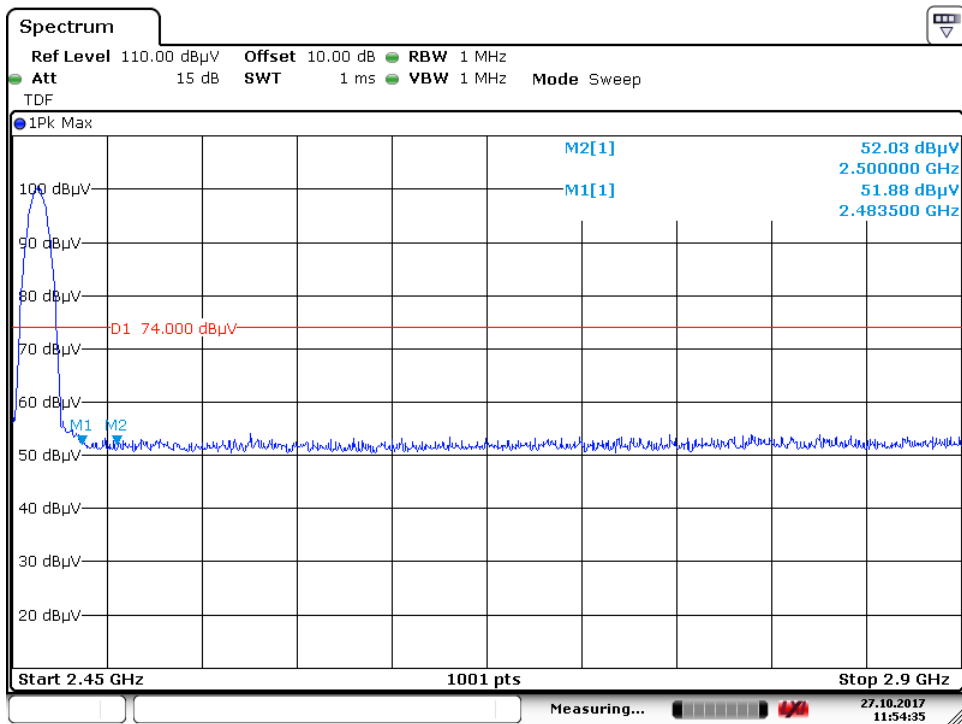
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Hor)



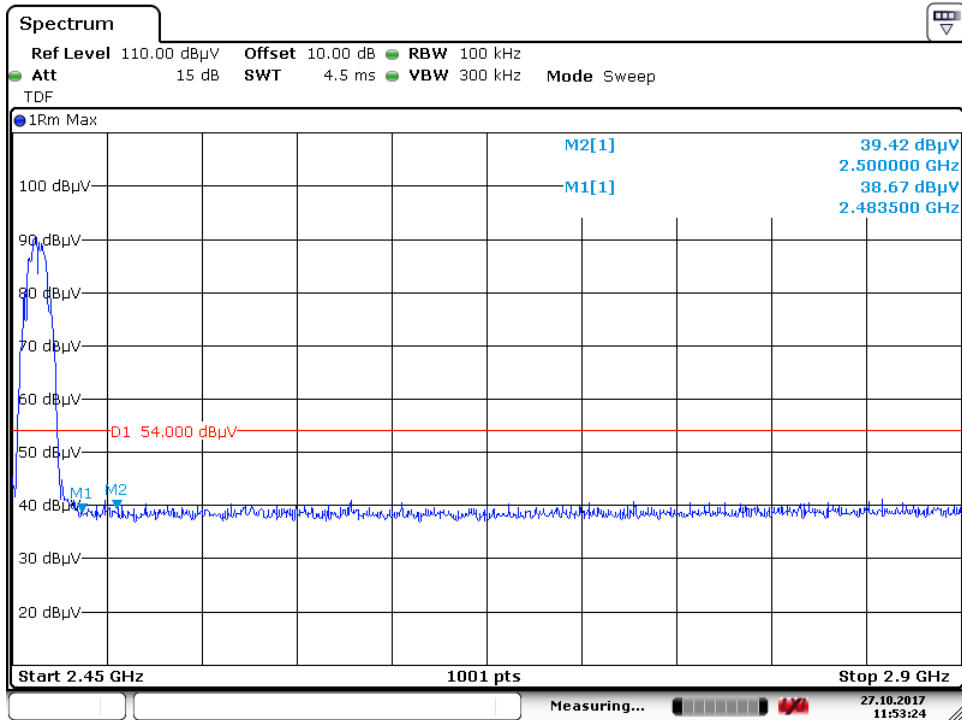
Date: 27.OCT.2017 11:54:08



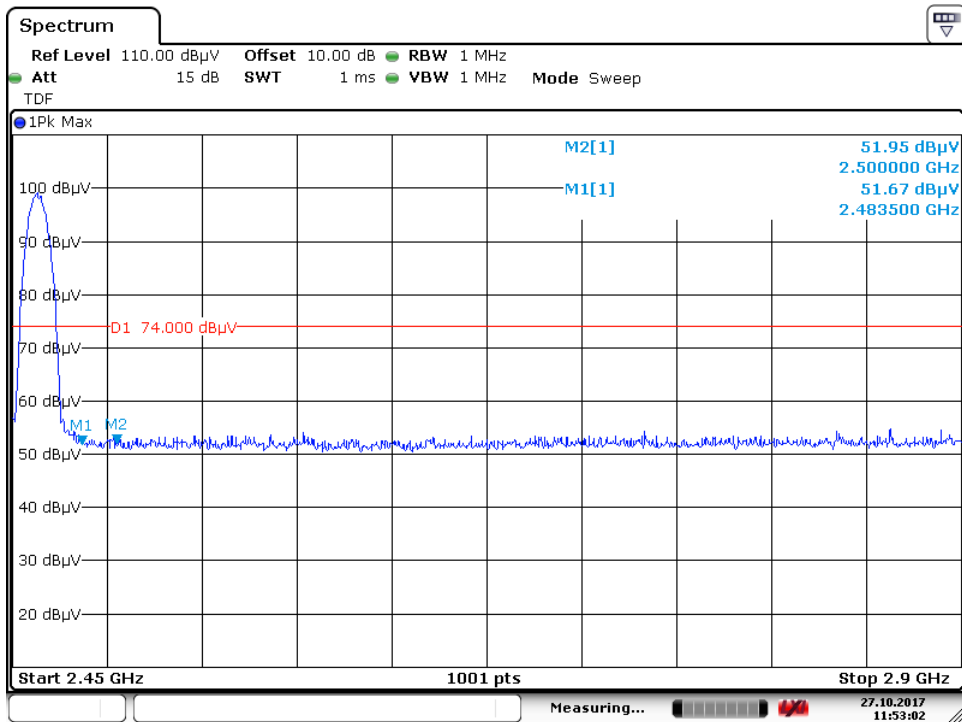
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Date: 27.OCT.2017 11:53:25

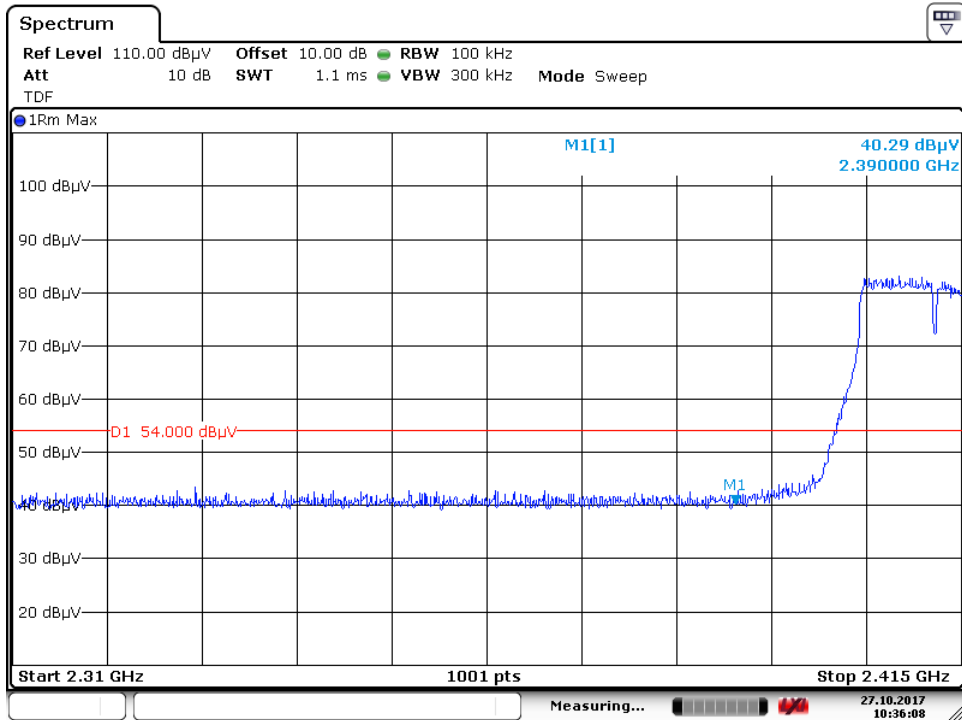


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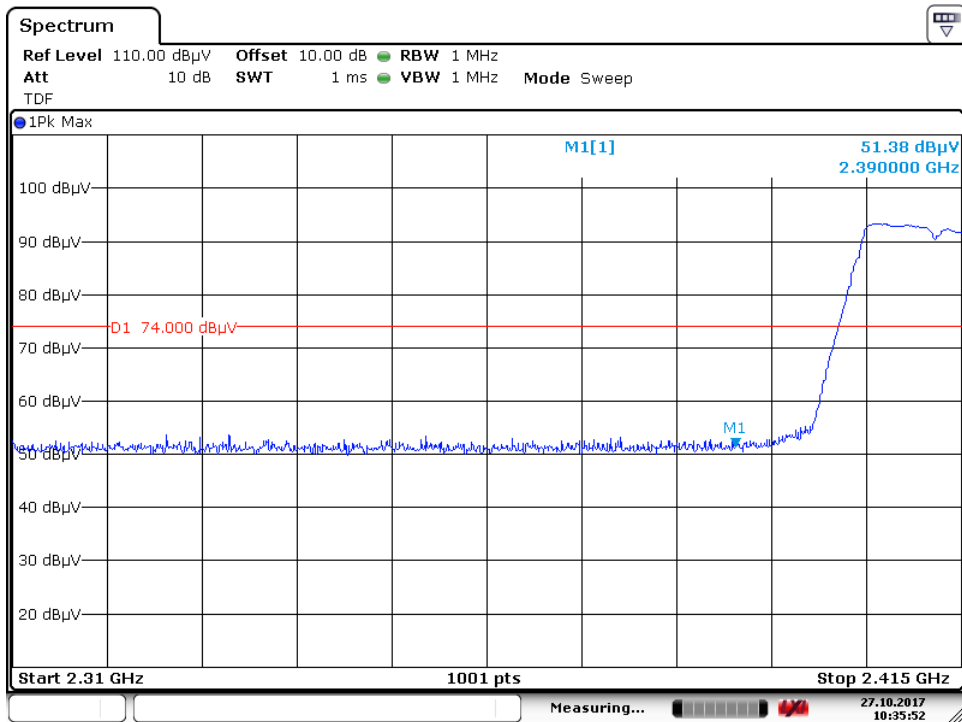
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge 11g

Low Channel (Hor)



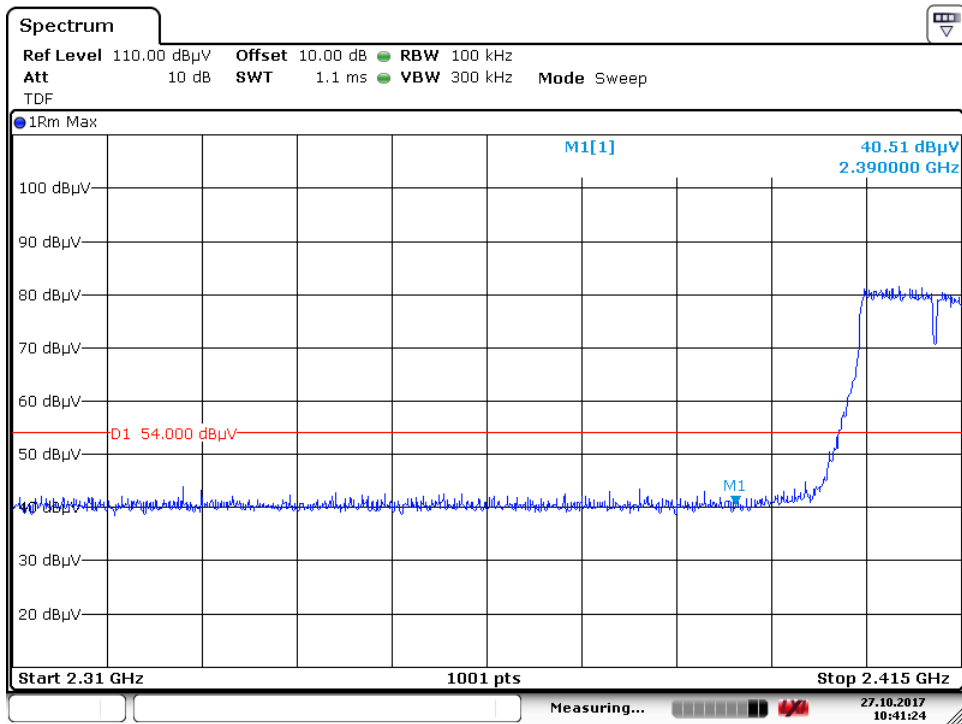
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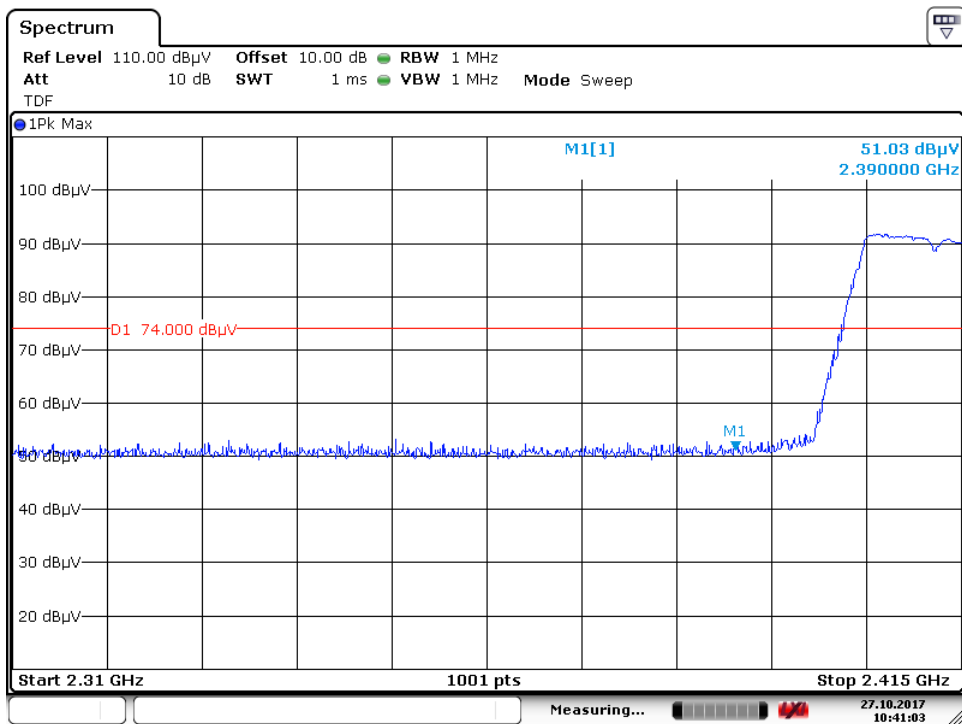
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Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



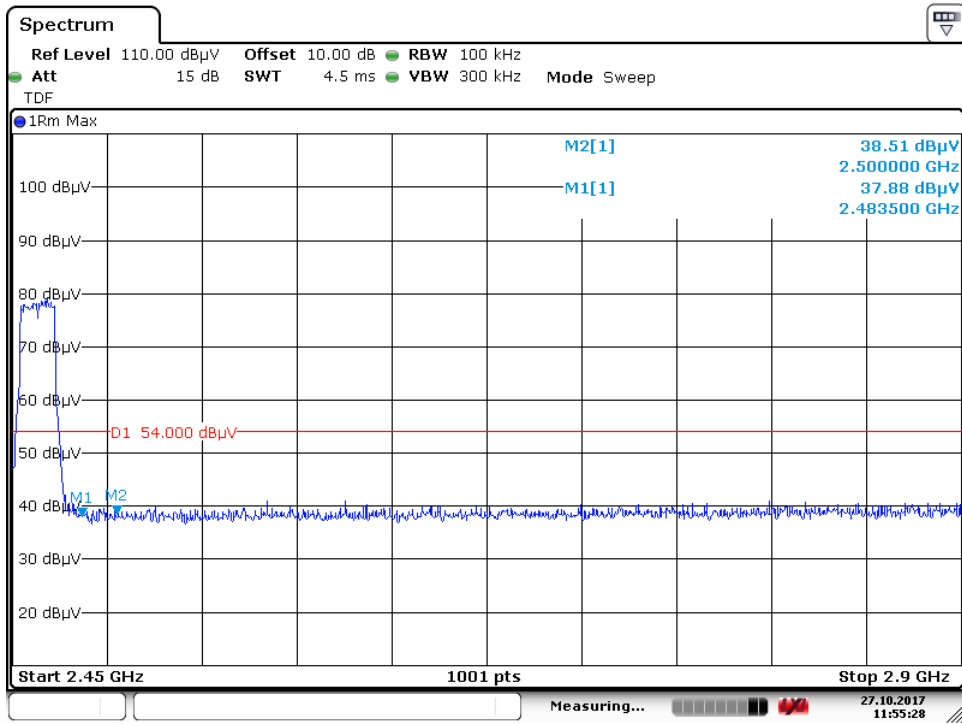
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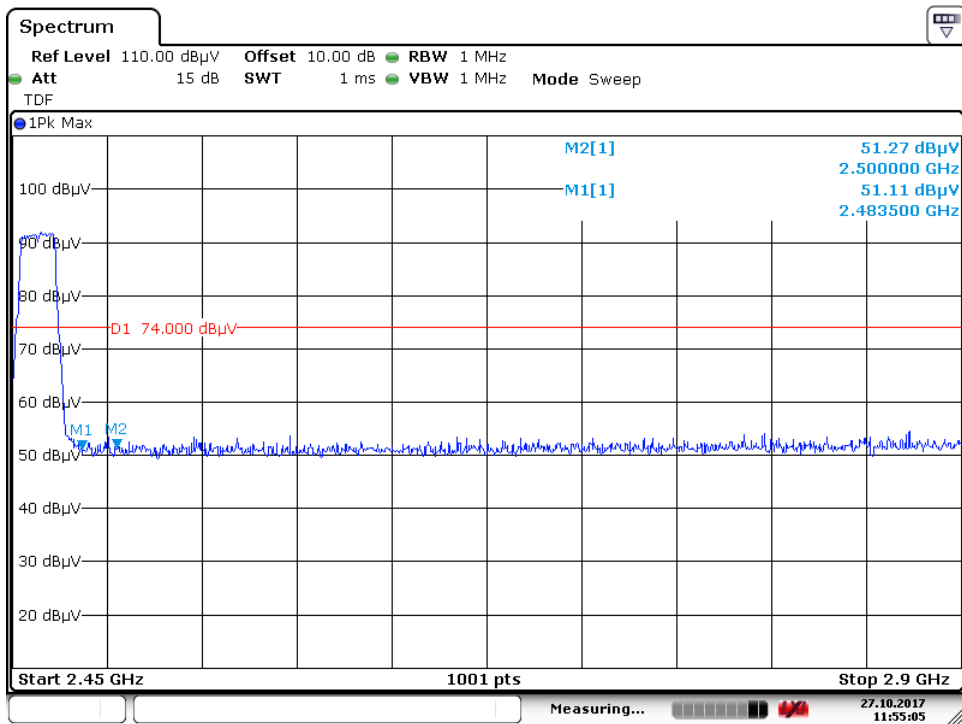
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Hor)



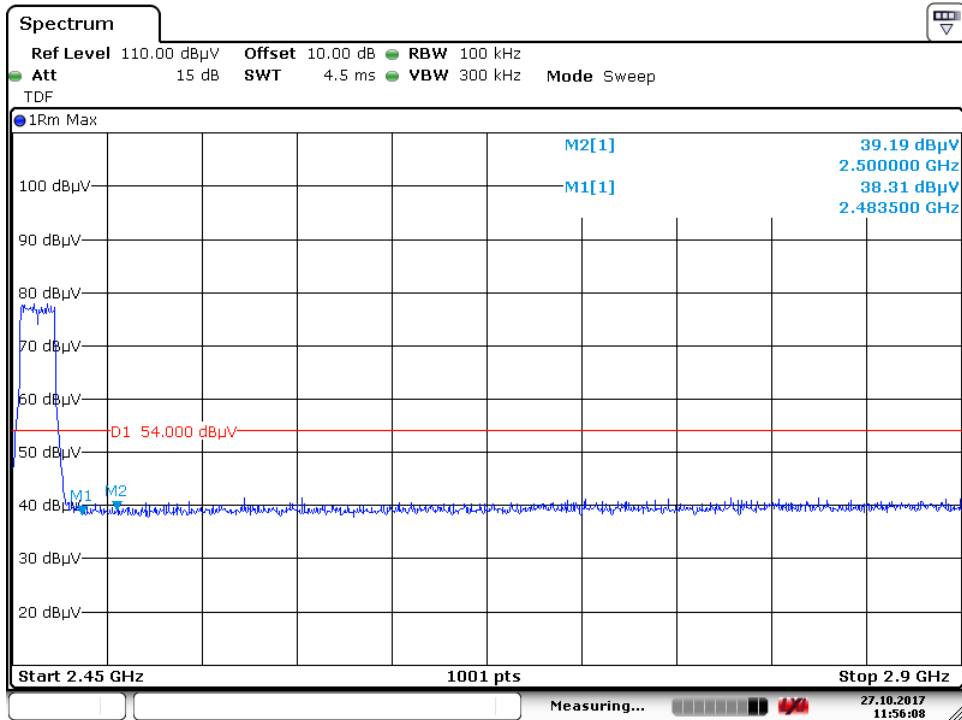
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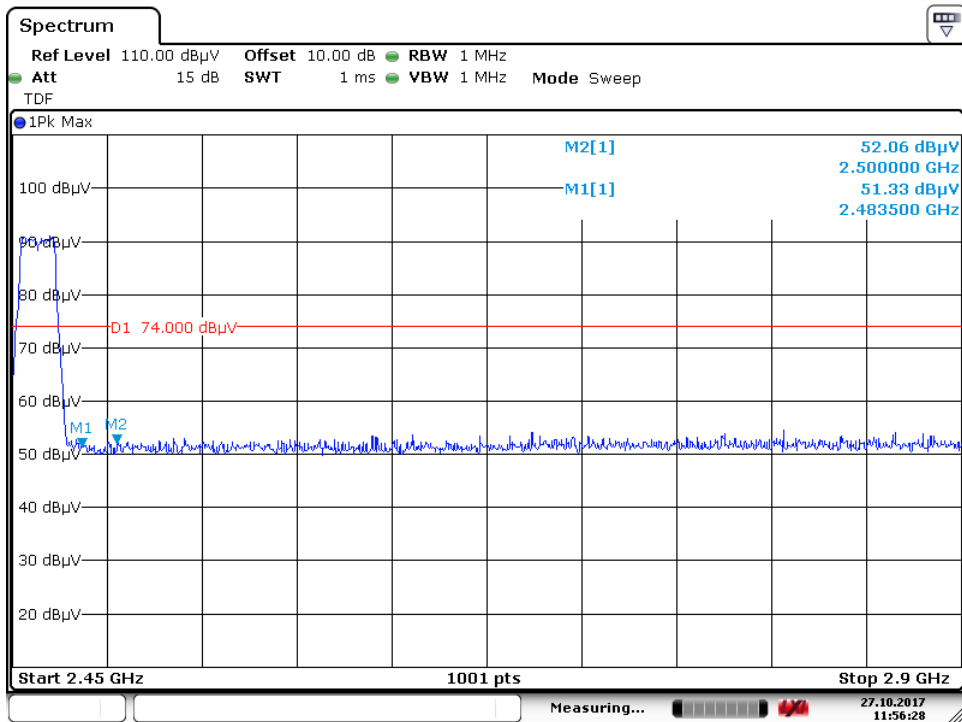
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



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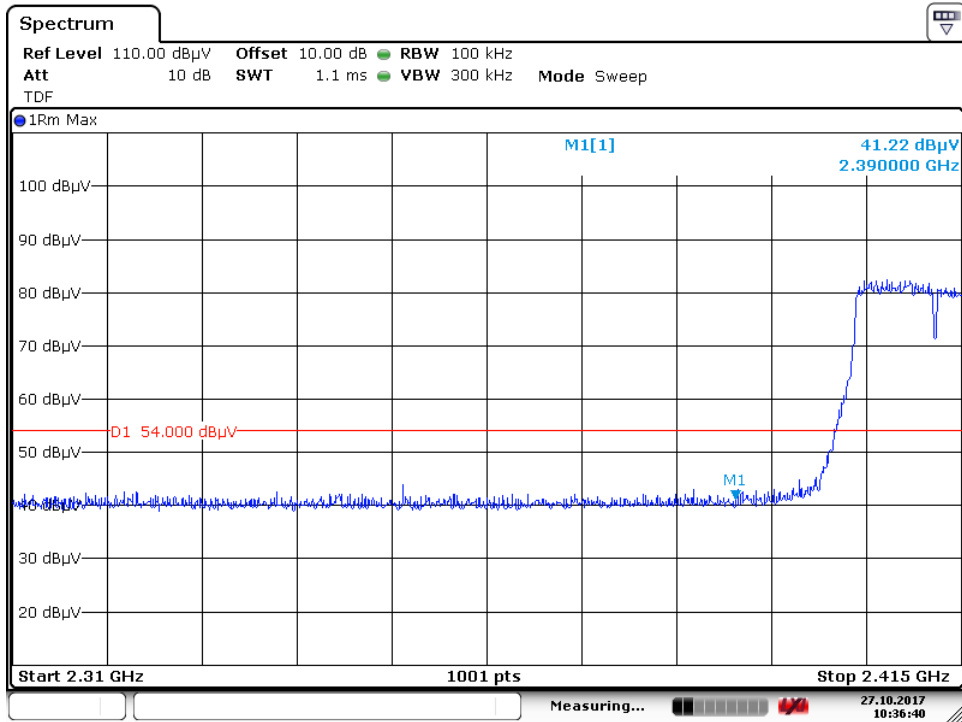


Date: 27.OCT.2017 11:56:27

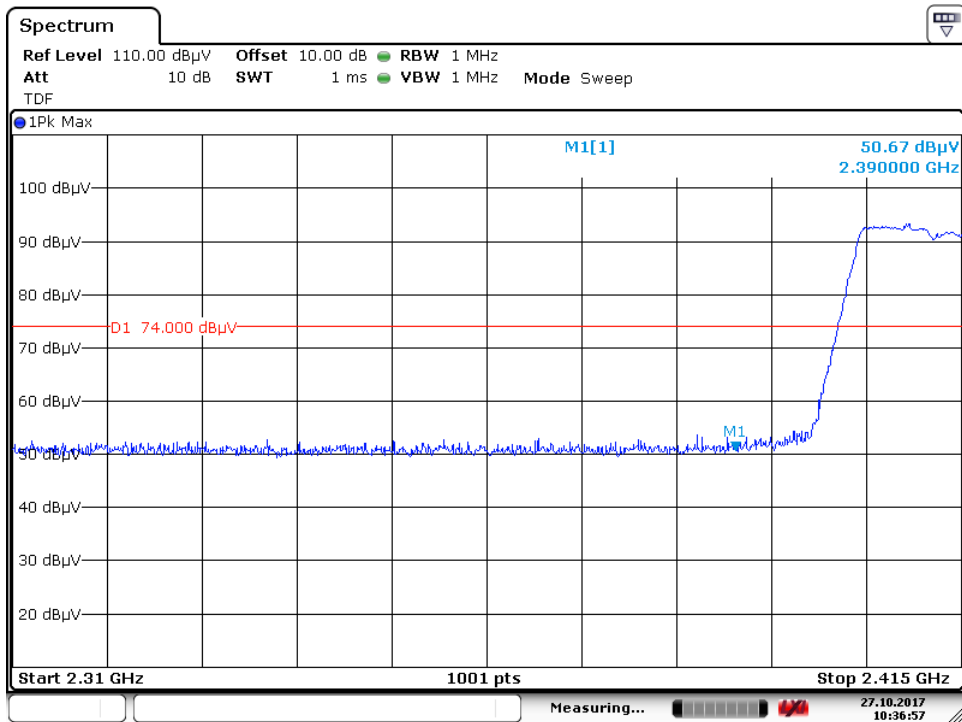
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge 11n_20M

Low Channel (Hor)



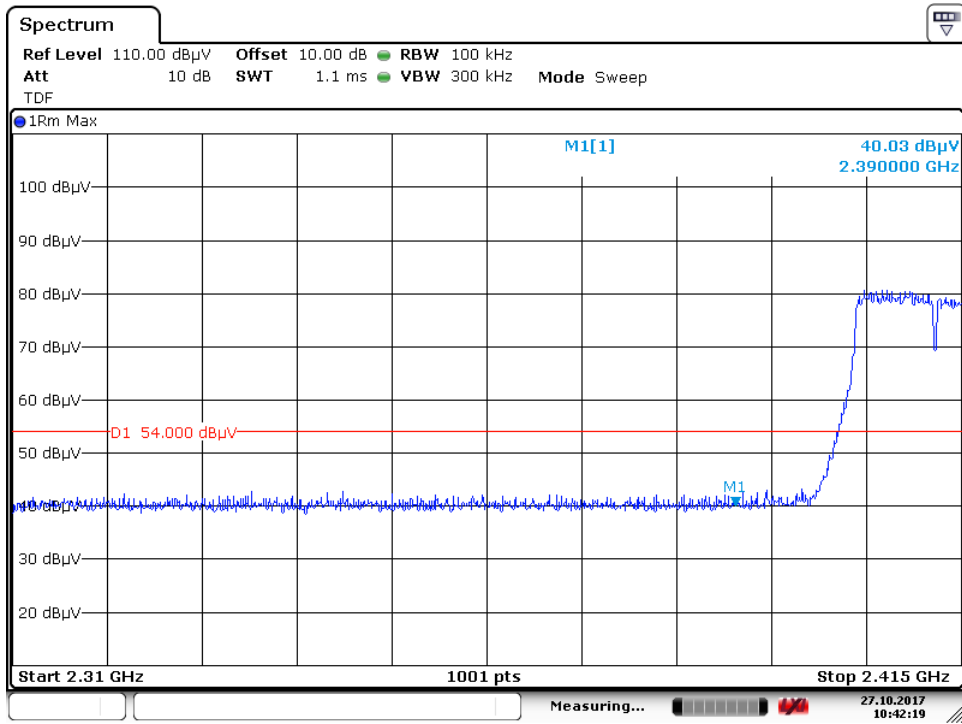
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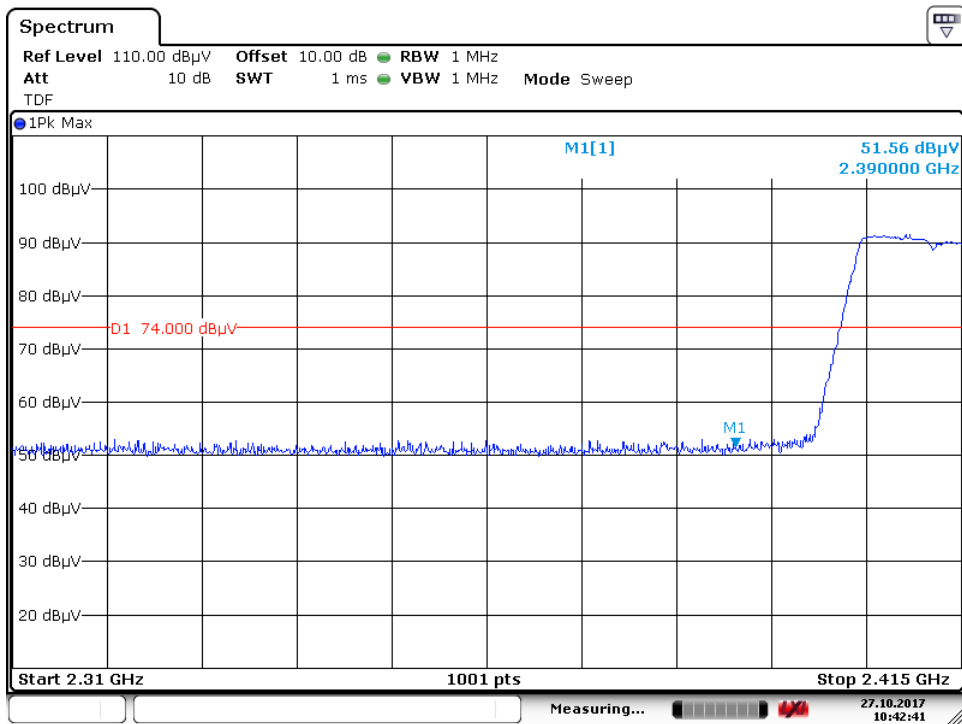
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Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



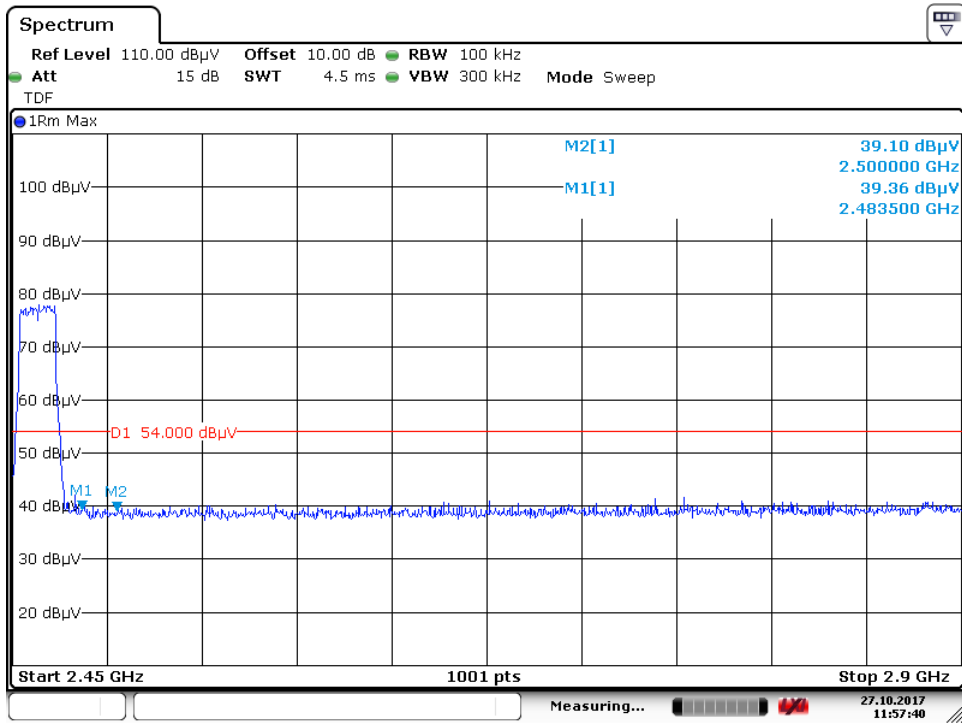
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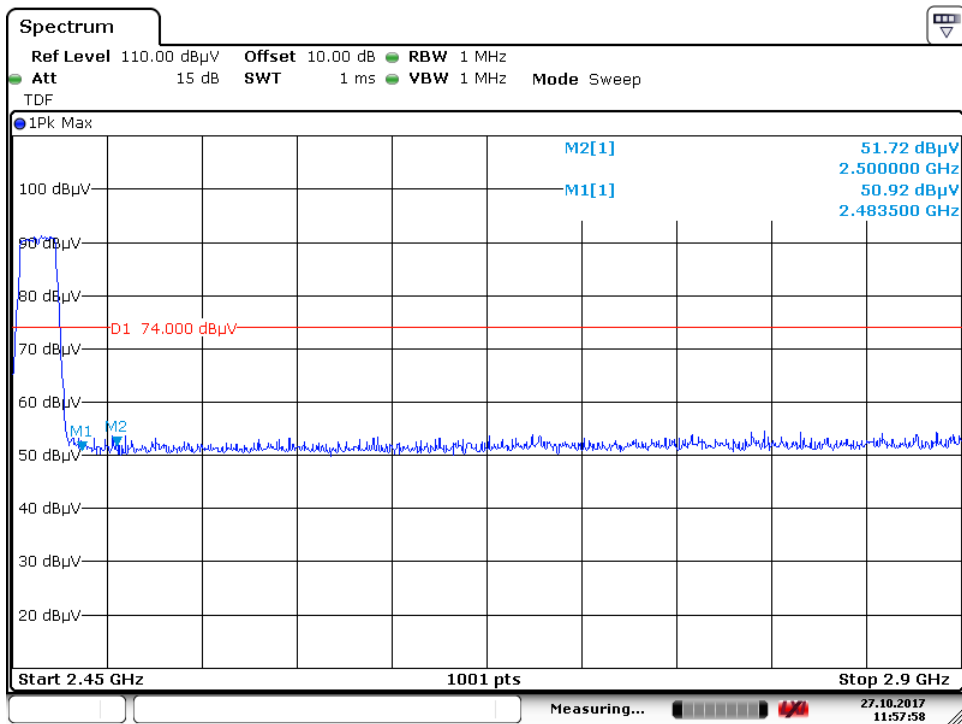
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Hor)



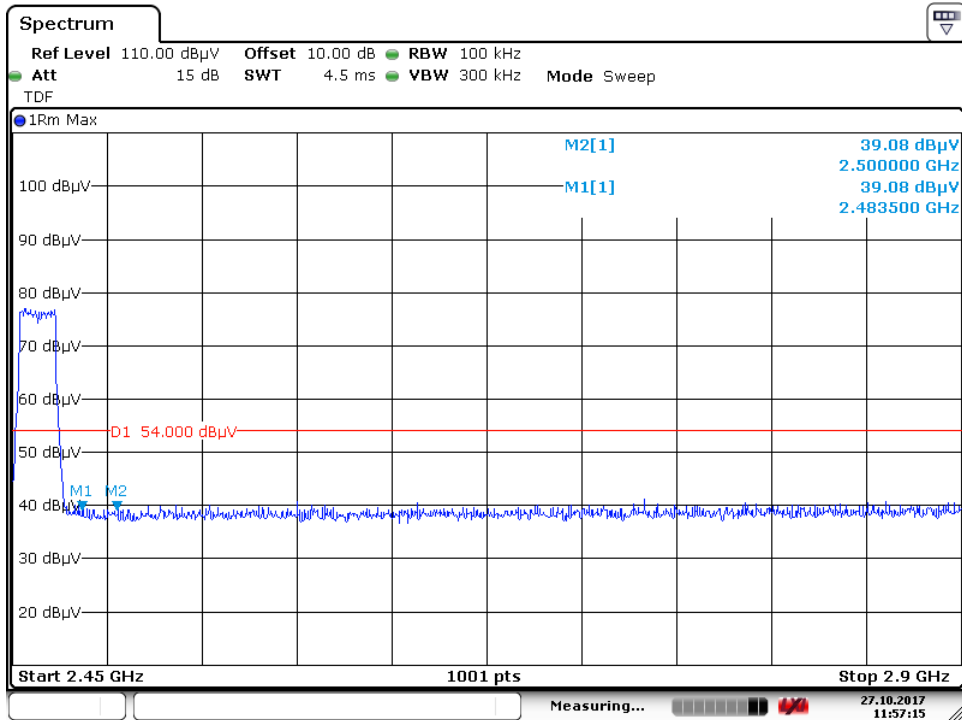
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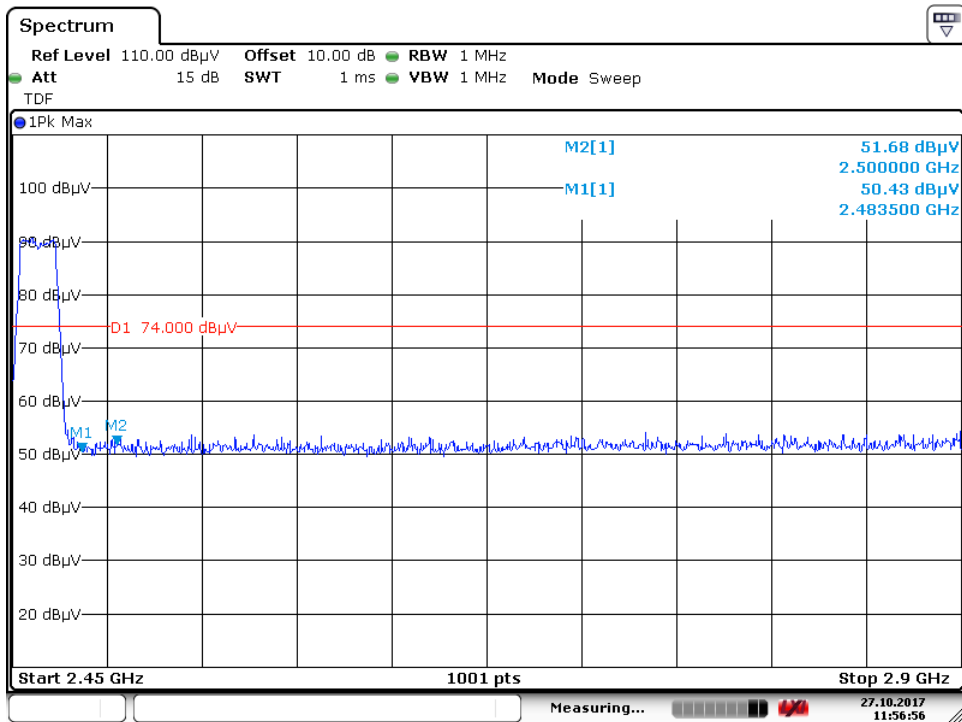
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Date: 27.OCT.2017 11:57:16



Date: 27.OCT.2017 11:56:56

Spurious Emissions, Band Edge, 2.35-2.5G

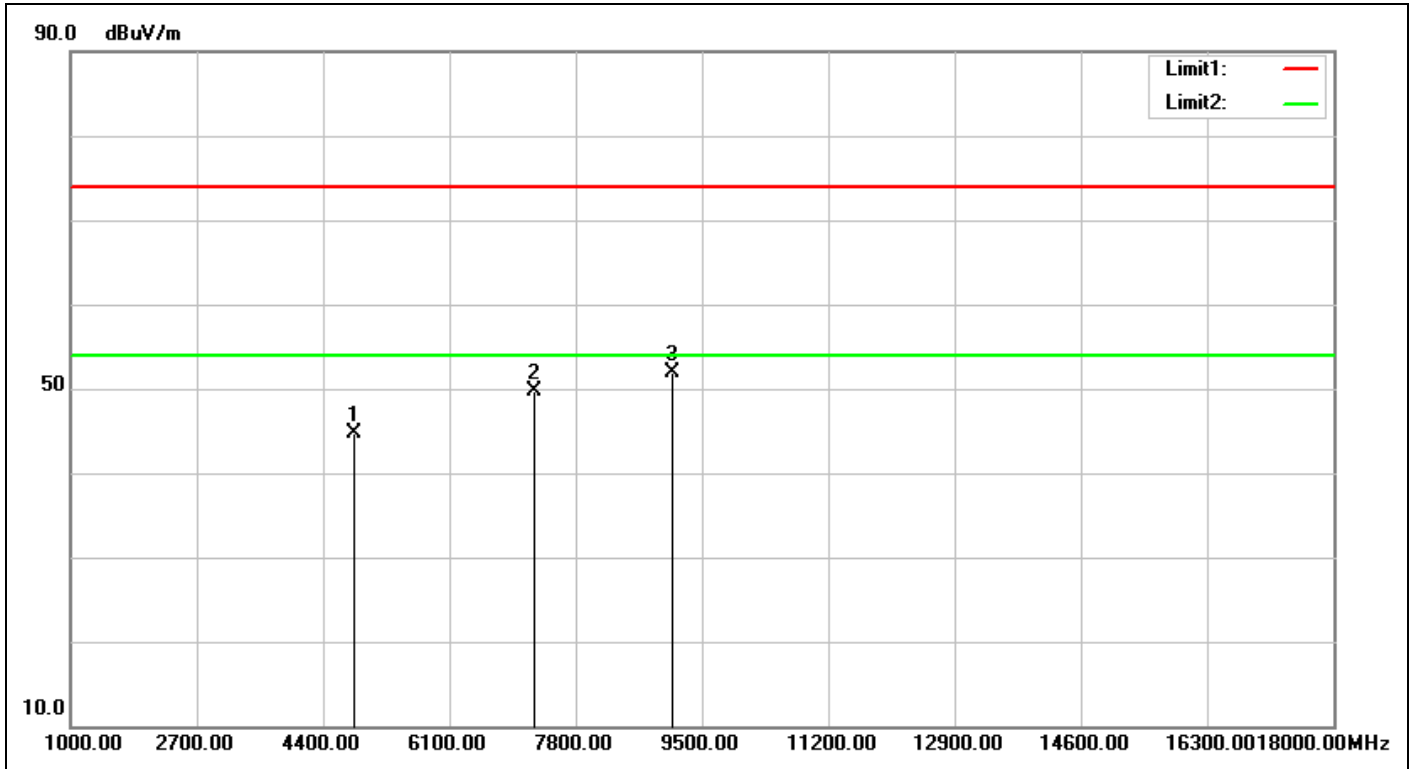
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

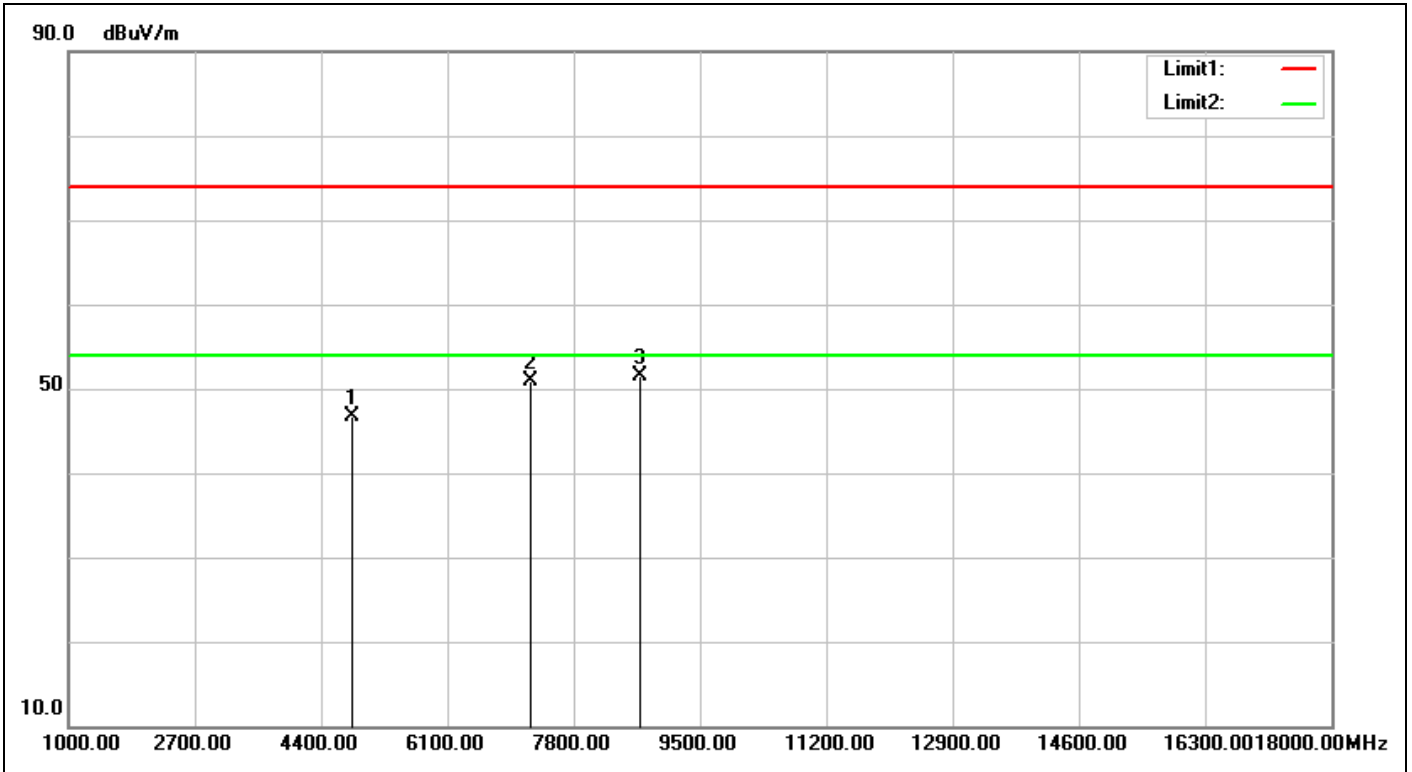
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



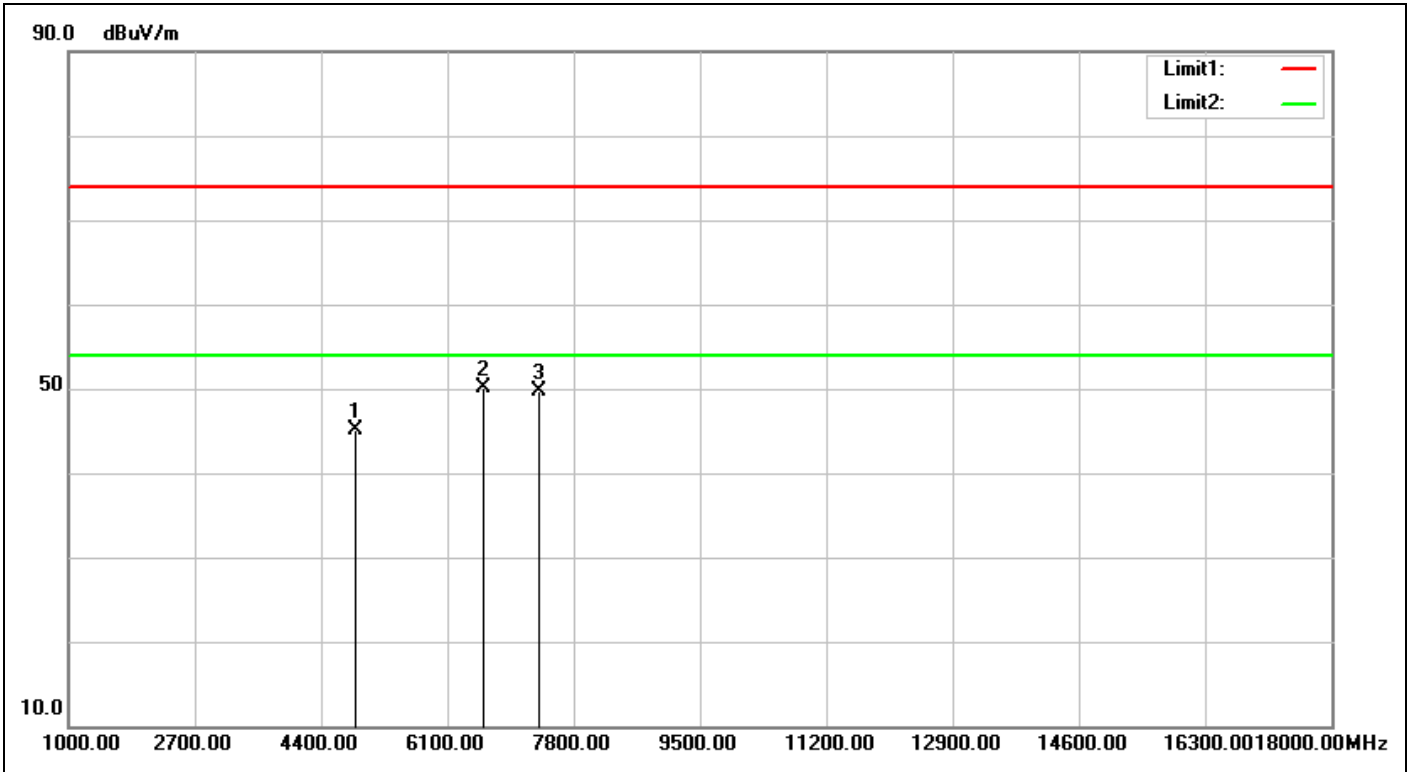
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 10:54:57
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.65	47.42	44.77	74.00	-29.23	peak		0	
2	7236.000	5.37	44.30	49.67	74.00	-24.33	peak		0	
3	9109.000	6.52	45.36	51.88	74.00	-22.12	peak	100	174	



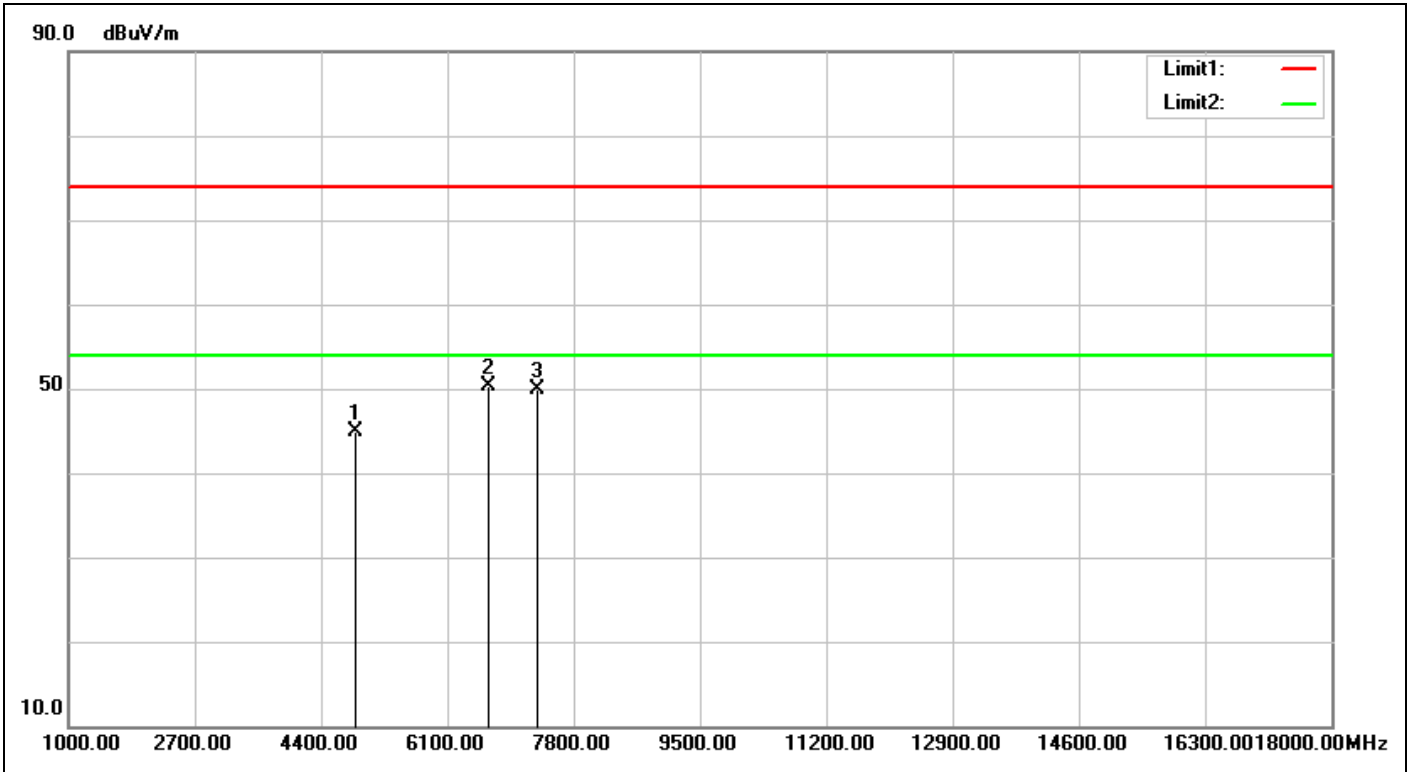
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 10:56:00
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.65	49.30	46.65	74.00	-27.35	peak	100	1	
2	7236.000	5.37	45.52	50.89	74.00	-23.11	peak	100	341	
3	8701.000	6.50	45.07	51.57	74.00	-22.43	peak	100	263	



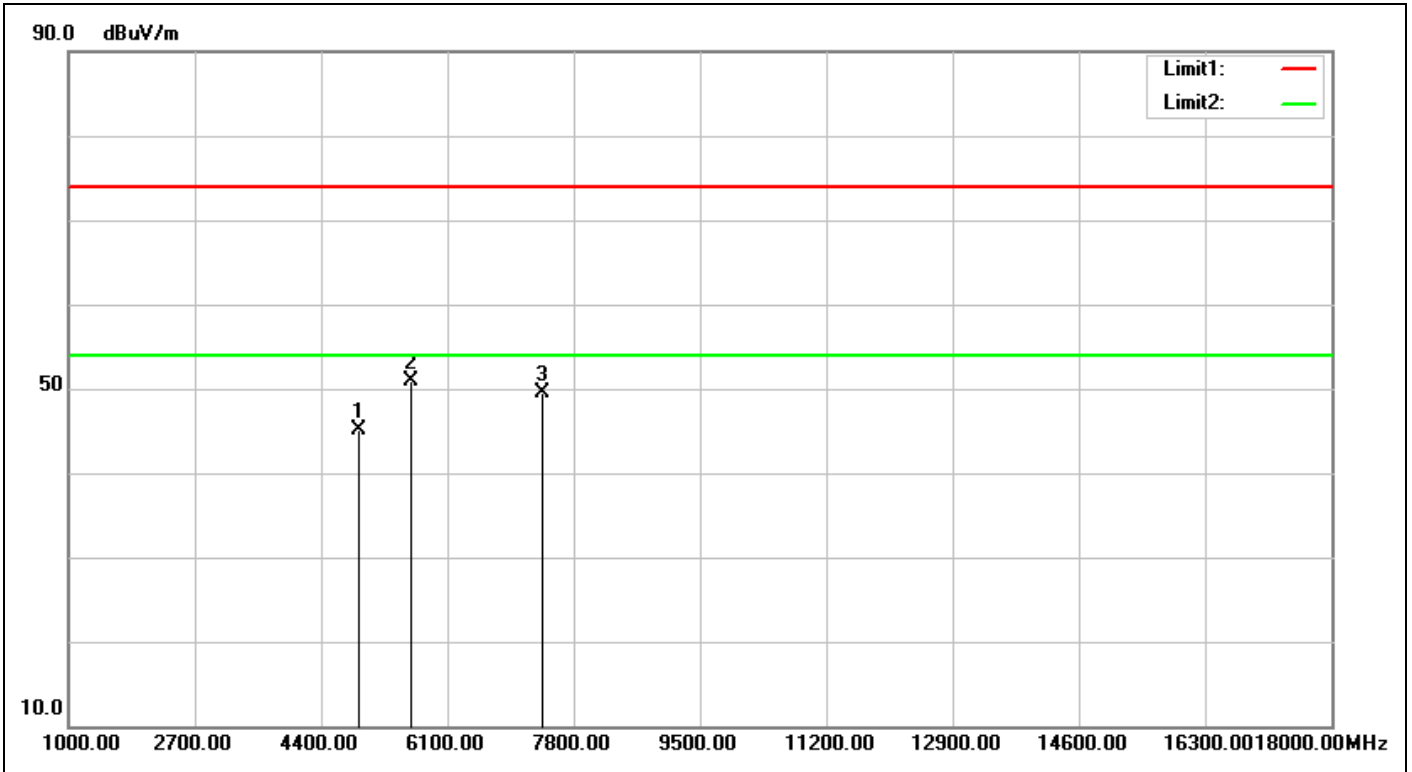
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Test item:	Radiation Emission	Test Time:	2017/10/27 10:58:38
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.52	47.70	45.18	74.00	-28.82	peak			
2	6576.000	5.25	44.84	50.09	74.00	-23.91	peak	100	320	
3	7311.000	5.57	44.18	49.75	74.00	-24.25	peak			



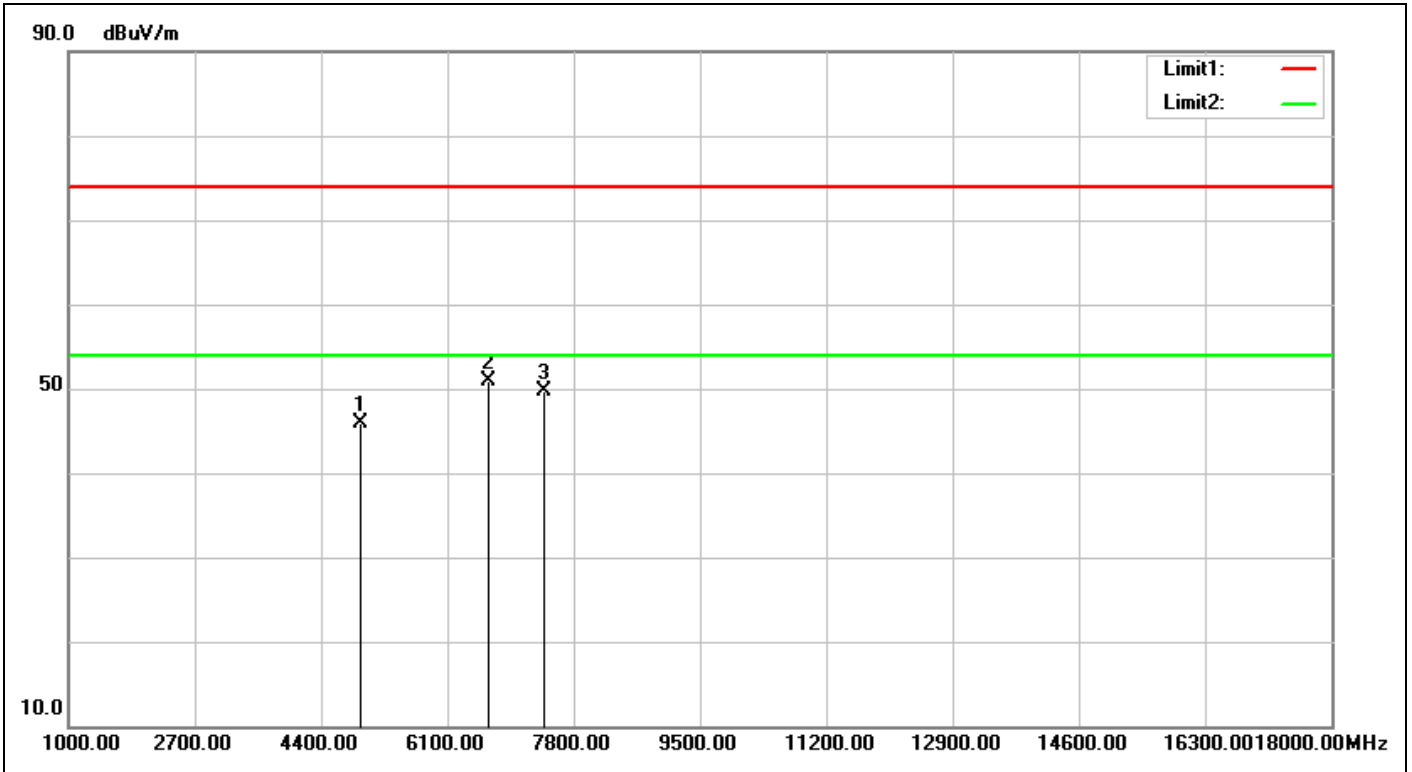
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 10:59:40
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.52	47.52	45.00	74.00	-29.00	peak			
2	6661.000	5.15	45.12	50.27	74.00	-23.73	peak	100	357	
3	7311.000	5.57	44.34	49.91	74.00	-24.09	peak			



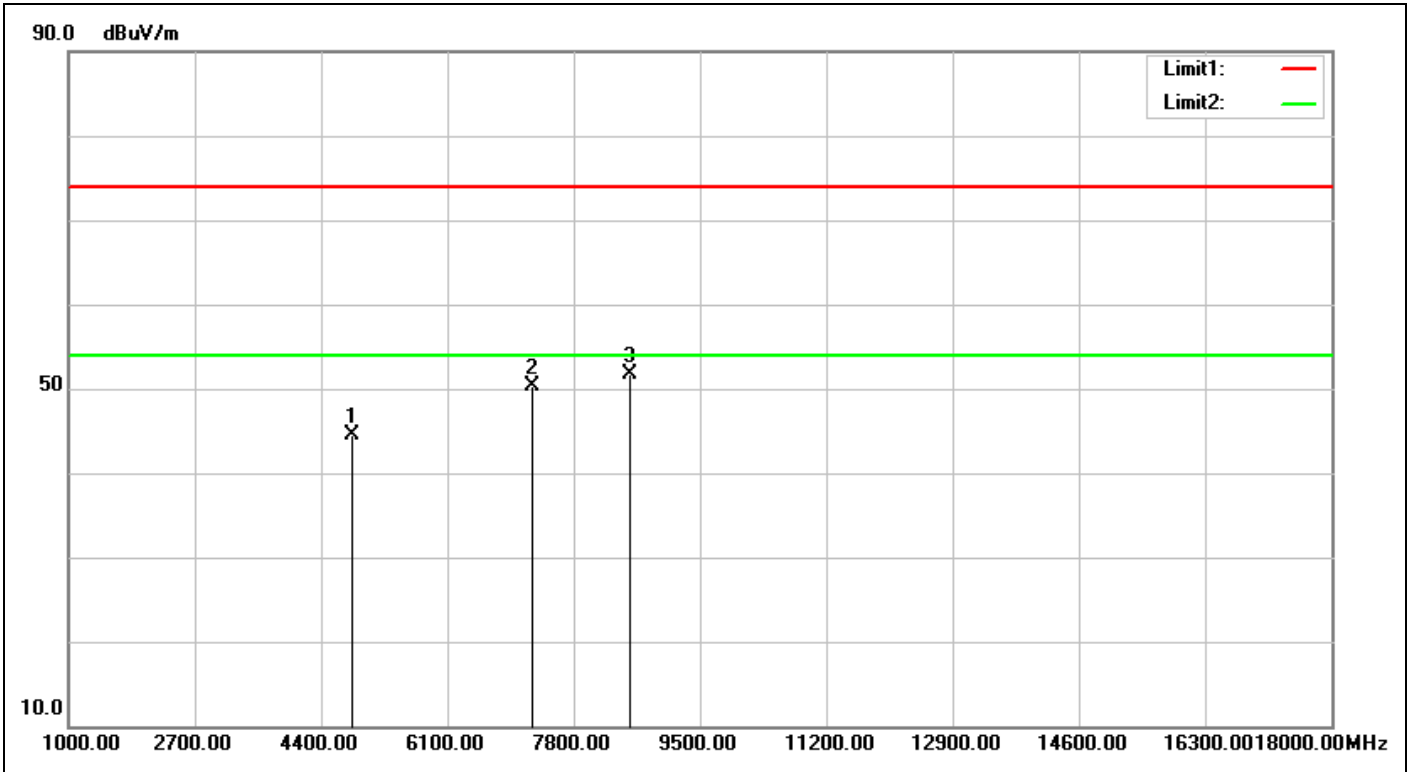
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 11:07:39
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

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	47.55	45.16	74.00	-28.84	peak			
2	5607.000	0.86	50.10	50.96	74.00	-23.04	peak	100	94	
3	7386.000	5.75	43.85	49.60	74.00	-24.40	peak			



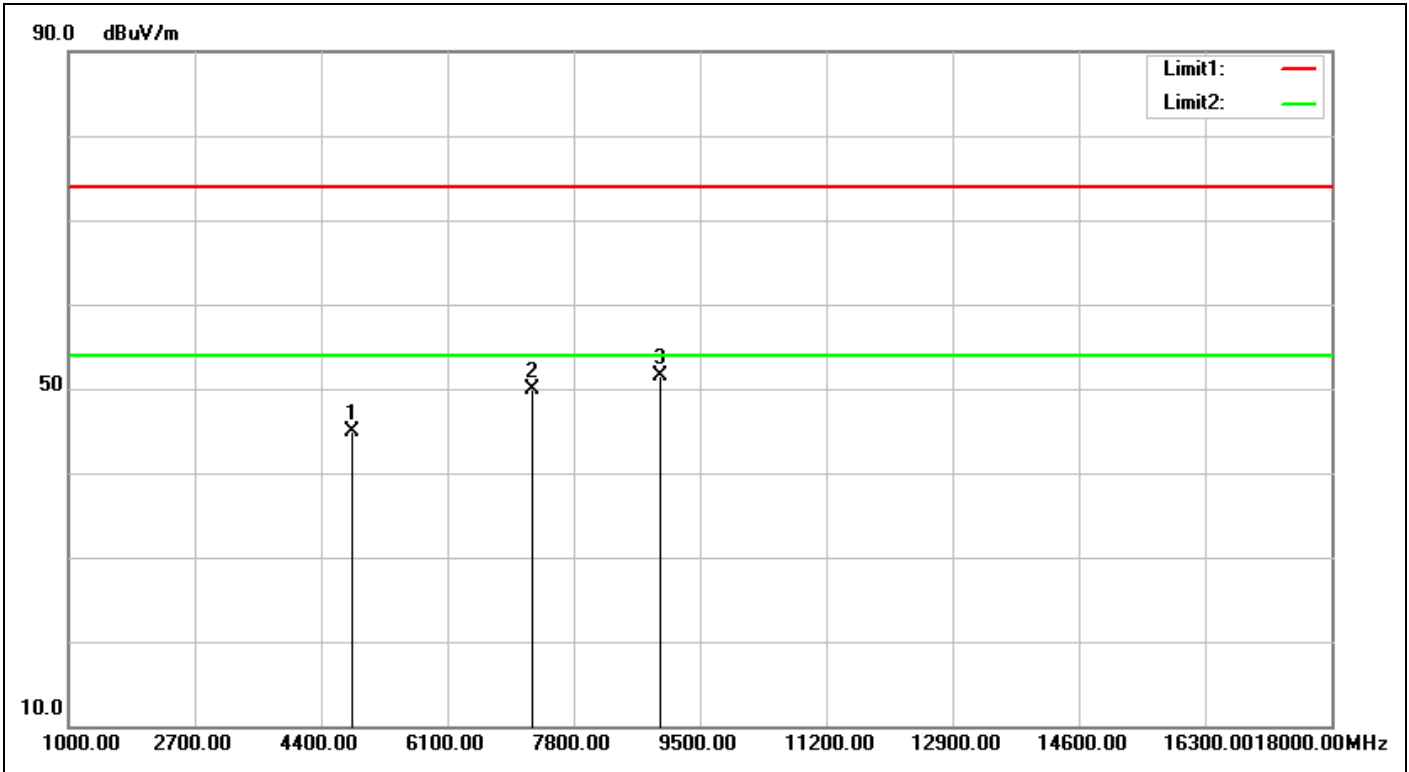
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Test item:	Radiation Emission	Test Time:	2017/10/27 11:08:42
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

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	48.23	45.84	74.00	-28.16	peak			
2	6644.000	5.18	45.65	50.83	74.00	-23.17	peak	100	167	
3	7386.000	5.75	43.95	49.70	74.00	-24.30	peak			



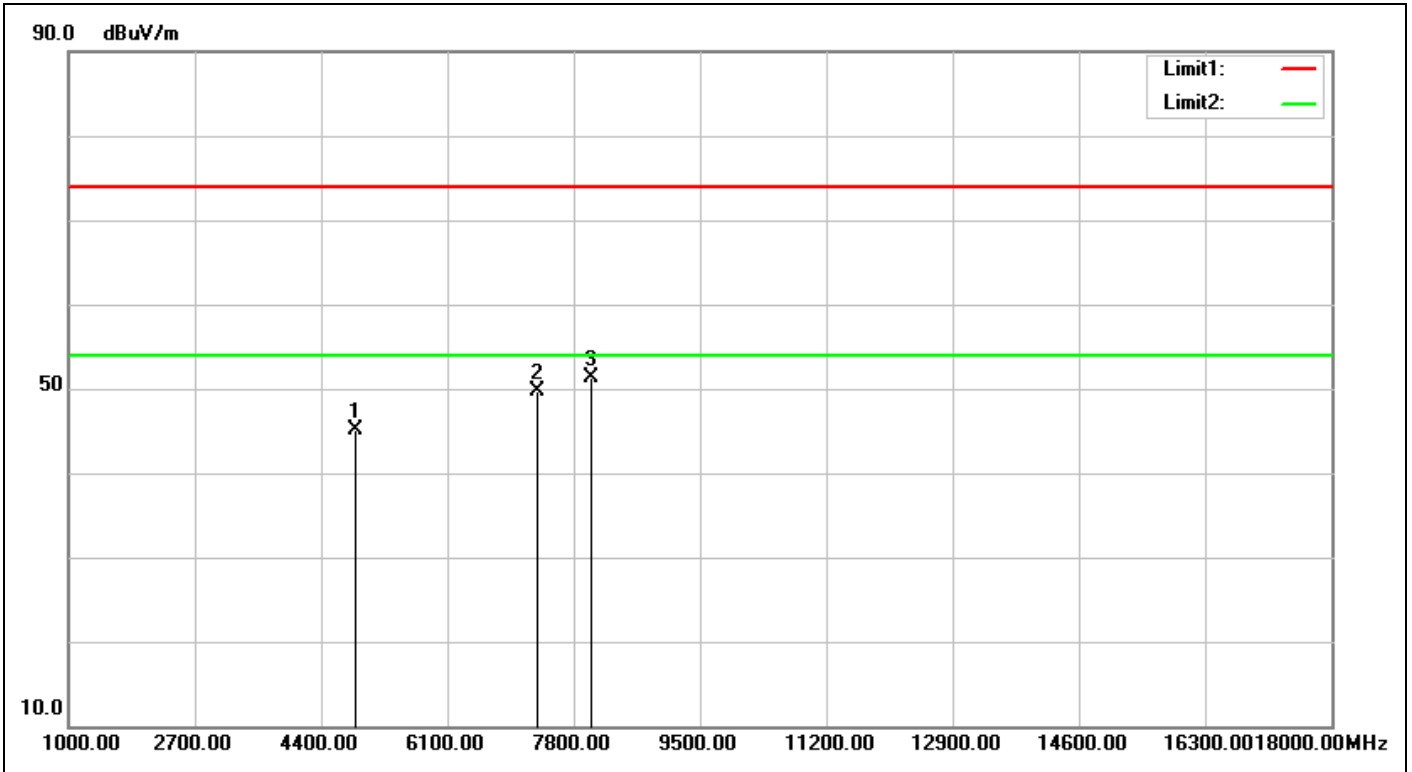
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 11:10:36
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.65	47.12	44.47	74.00	-29.53	peak			
2	7236.000	5.37	45.01	50.38	74.00	-23.62	peak			
3	8565.000	6.50	45.14	51.64	74.00	-22.36	peak	100	171	



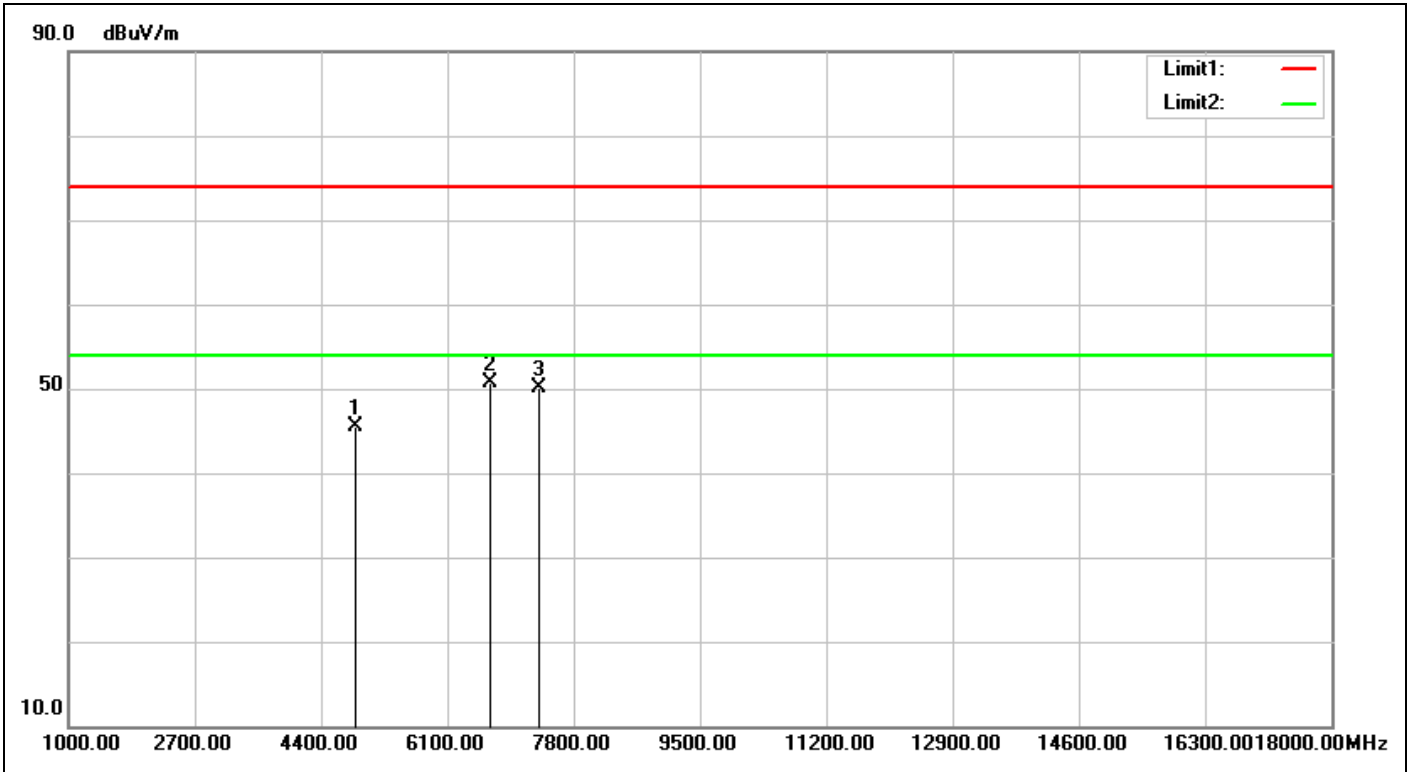
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 11:11:38
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4824.000	-2.65	47.54	44.89	74.00	-29.11	peak			
2	7236.000	5.37	44.45	49.82	74.00	-24.18	peak			
3	8973.000	6.50	44.97	51.47	74.00	-22.53	peak	100	239	



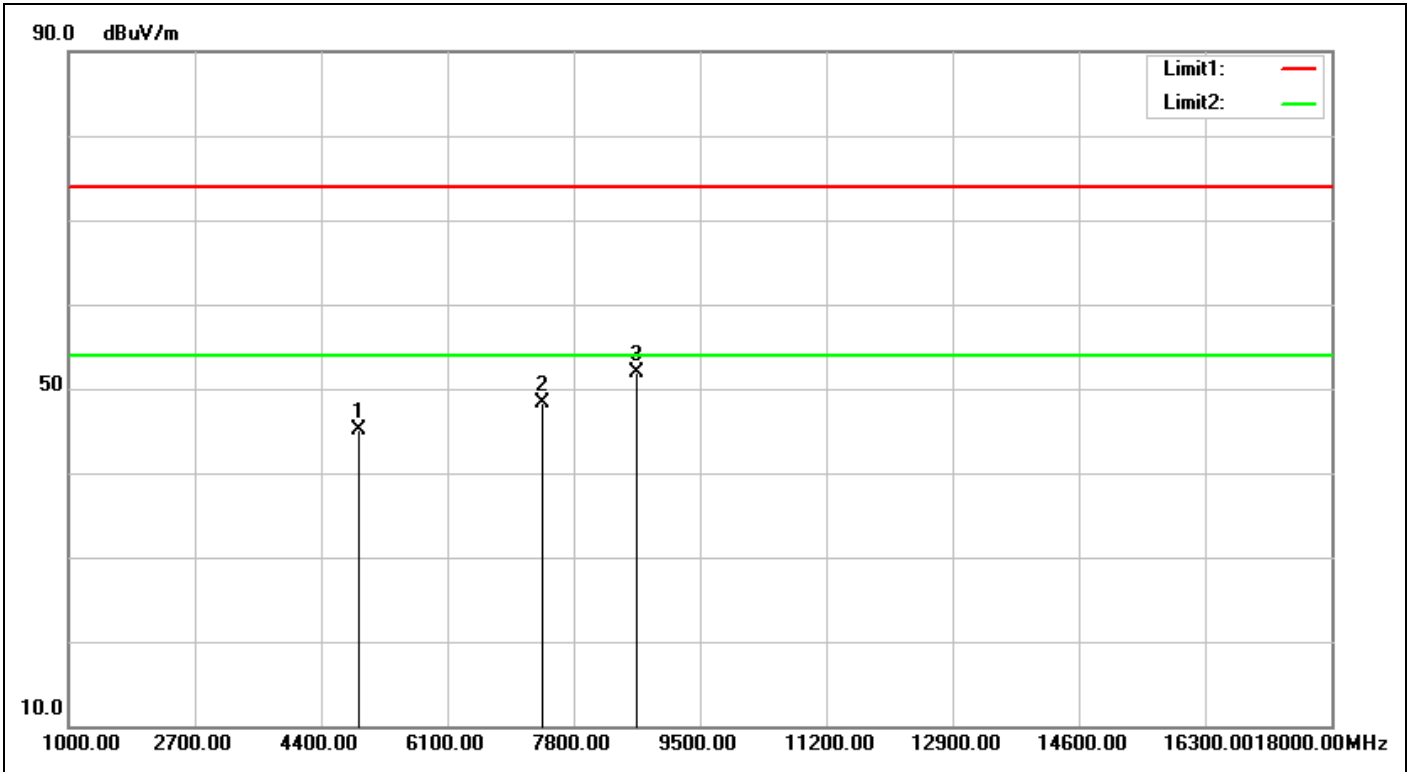
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 11:15:21
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.52	47.55	45.03	74.00	-28.97	peak			
2	7311.000	5.57	44.13	49.70	74.00	-24.30	peak			
3	8038.000	5.84	45.48	51.32	74.00	-22.68	peak	100	88	



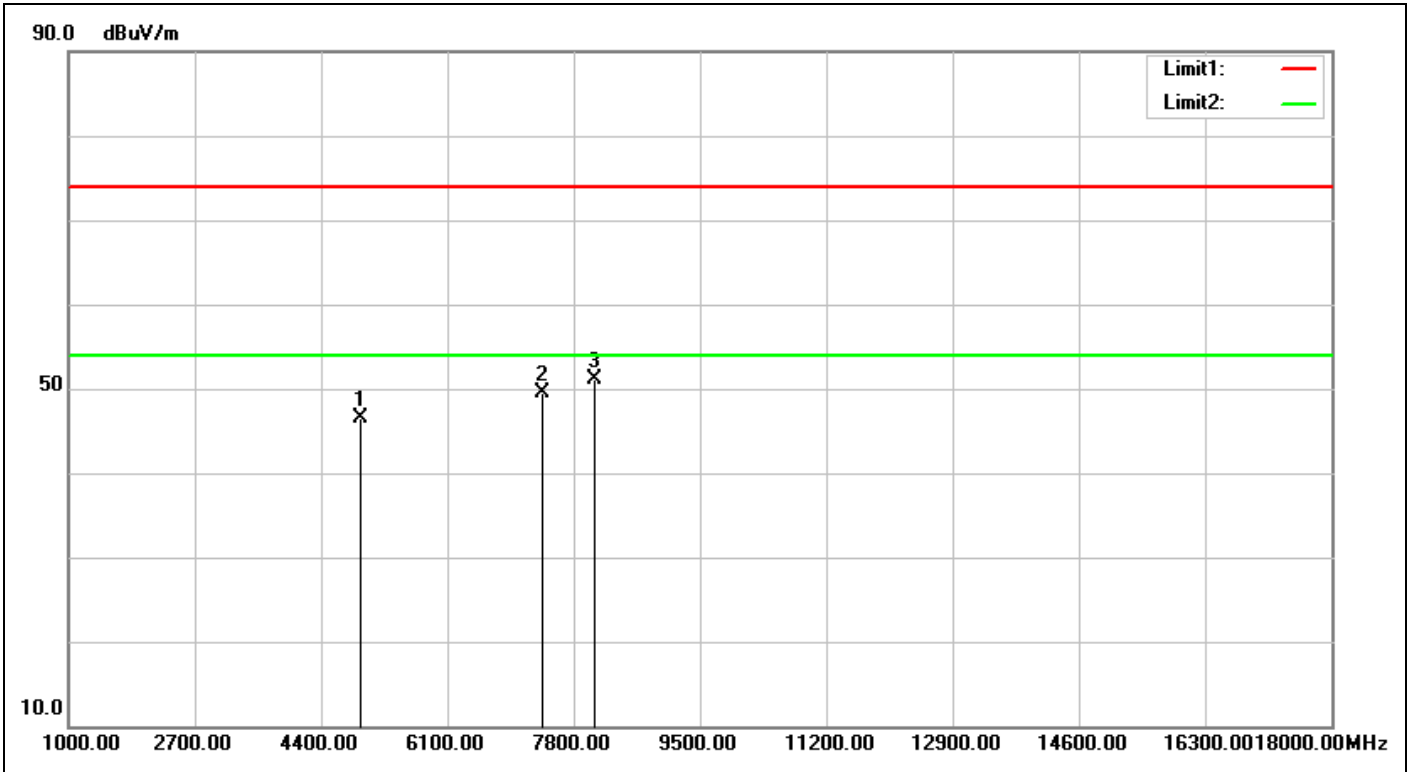
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 11:16:24
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4874.000	-2.52	48.04	45.52	74.00	-28.48	peak			
2	6678.000	5.14	45.59	50.73	74.00	-23.27	peak	100	117	
3	7311.000	5.57	44.46	50.03	74.00	-23.97	peak			



Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 11:18:20
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

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	47.40	45.01	74.00	-28.99	peak			
2	7386.000	5.75	42.49	48.24	74.00	-25.76	peak			
3	8650.000	6.50	45.50	52.00	74.00	-22.00	peak	100	41	



Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 11:19:23
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

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	48.85	46.46	74.00	-27.54	peak			
2	7386.000	5.75	43.71	49.46	74.00	-24.54	peak			
3	8089.000	5.91	45.25	51.16	74.00	-22.84	peak	100	31	

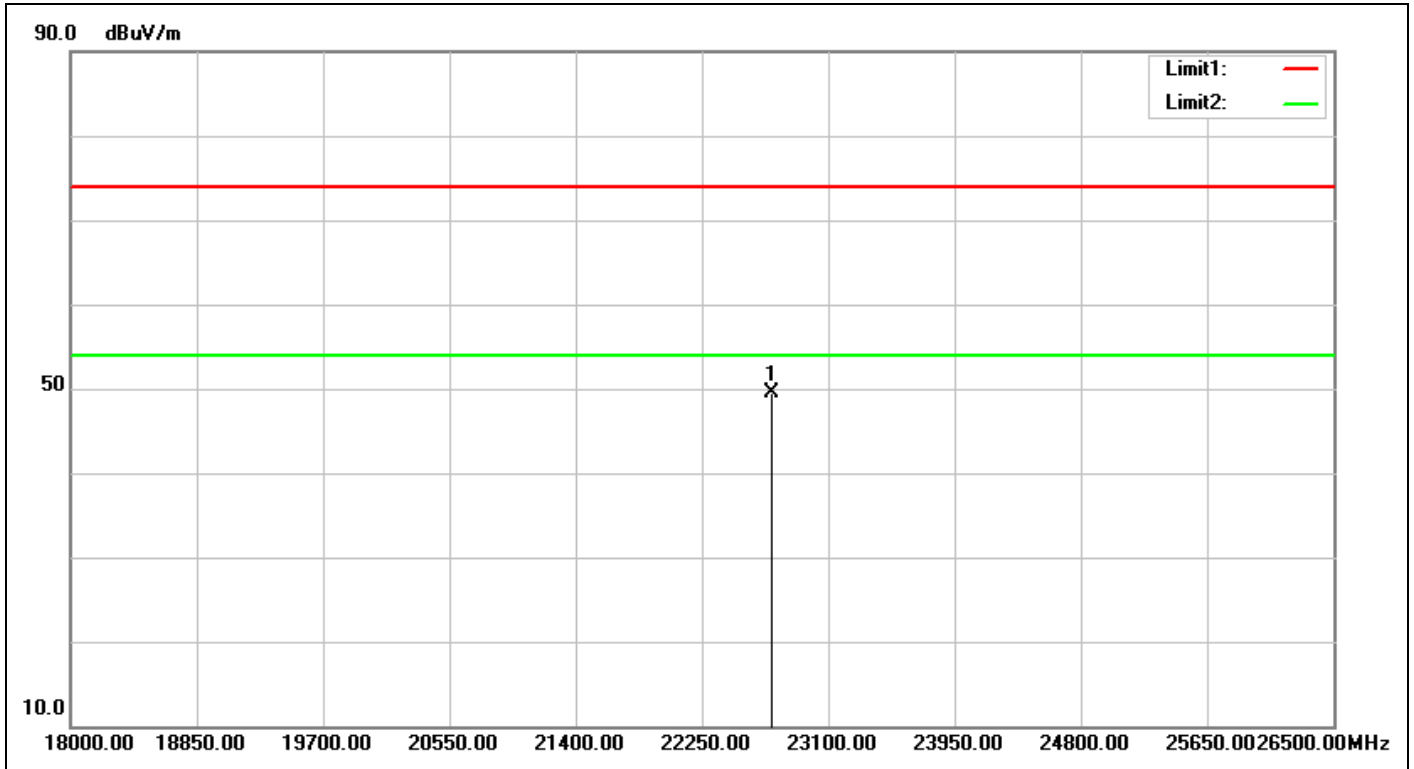
Spurious Emissions, TX Mode, 18-26.5G



TUV Rheinland Taiwan Ltd.

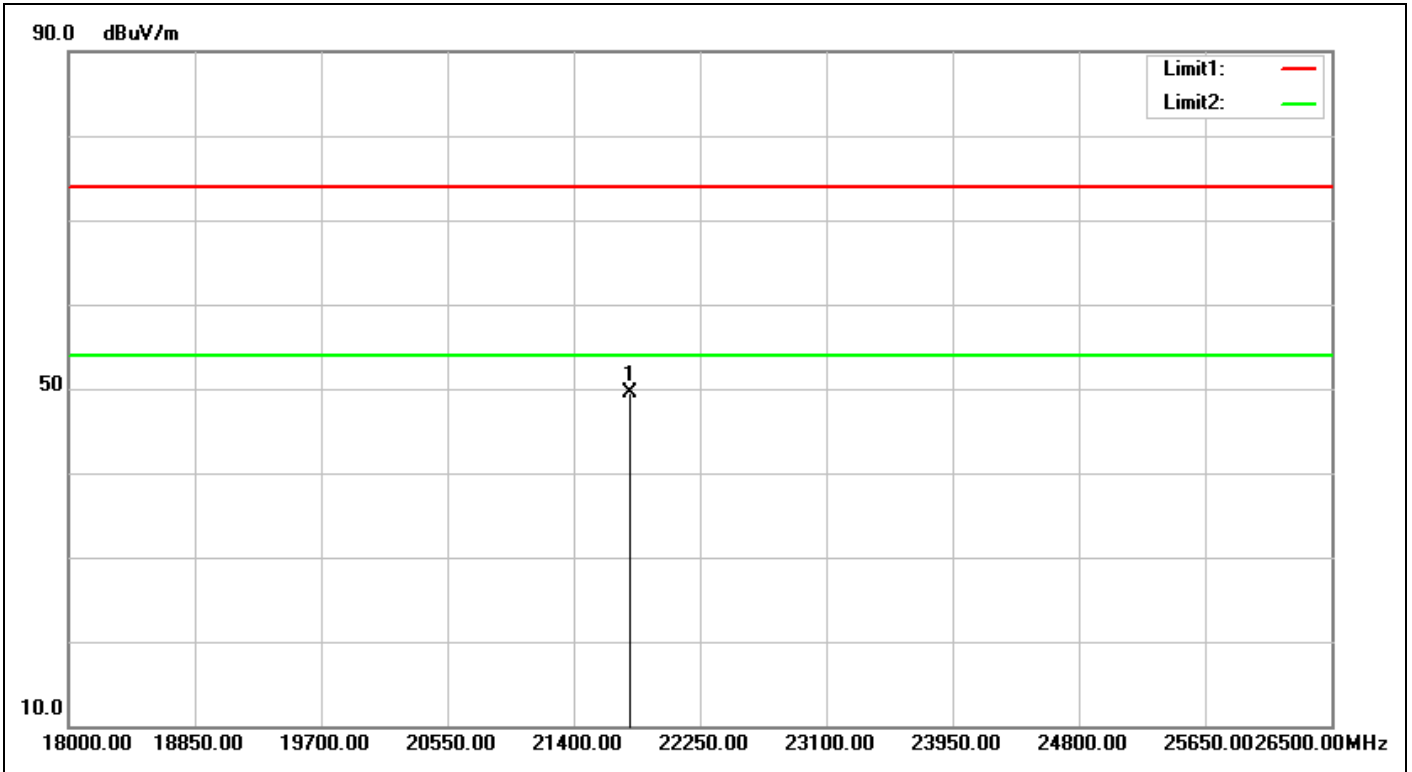
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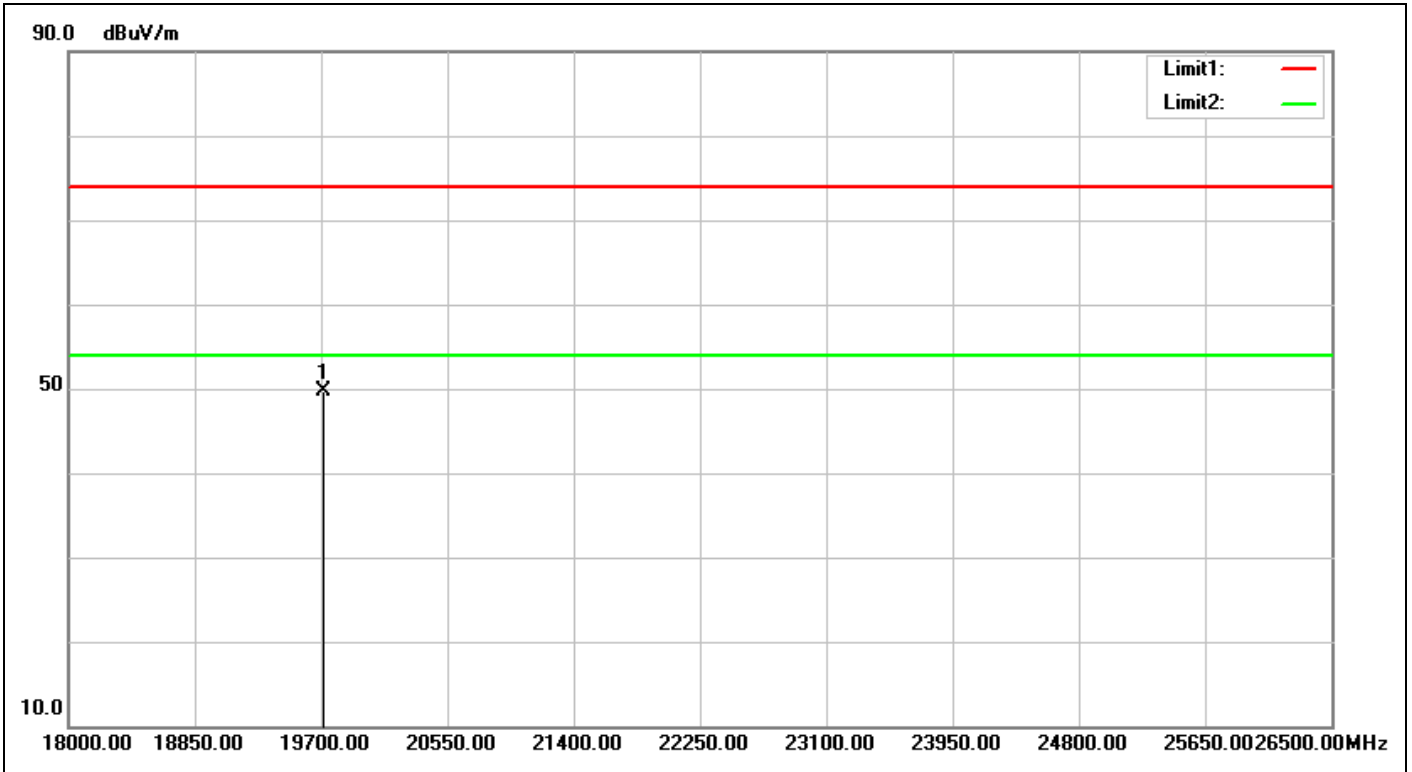
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 13:42:18
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22717.500	32.11	17.42	49.53	74.00	-24.47	peak		0	



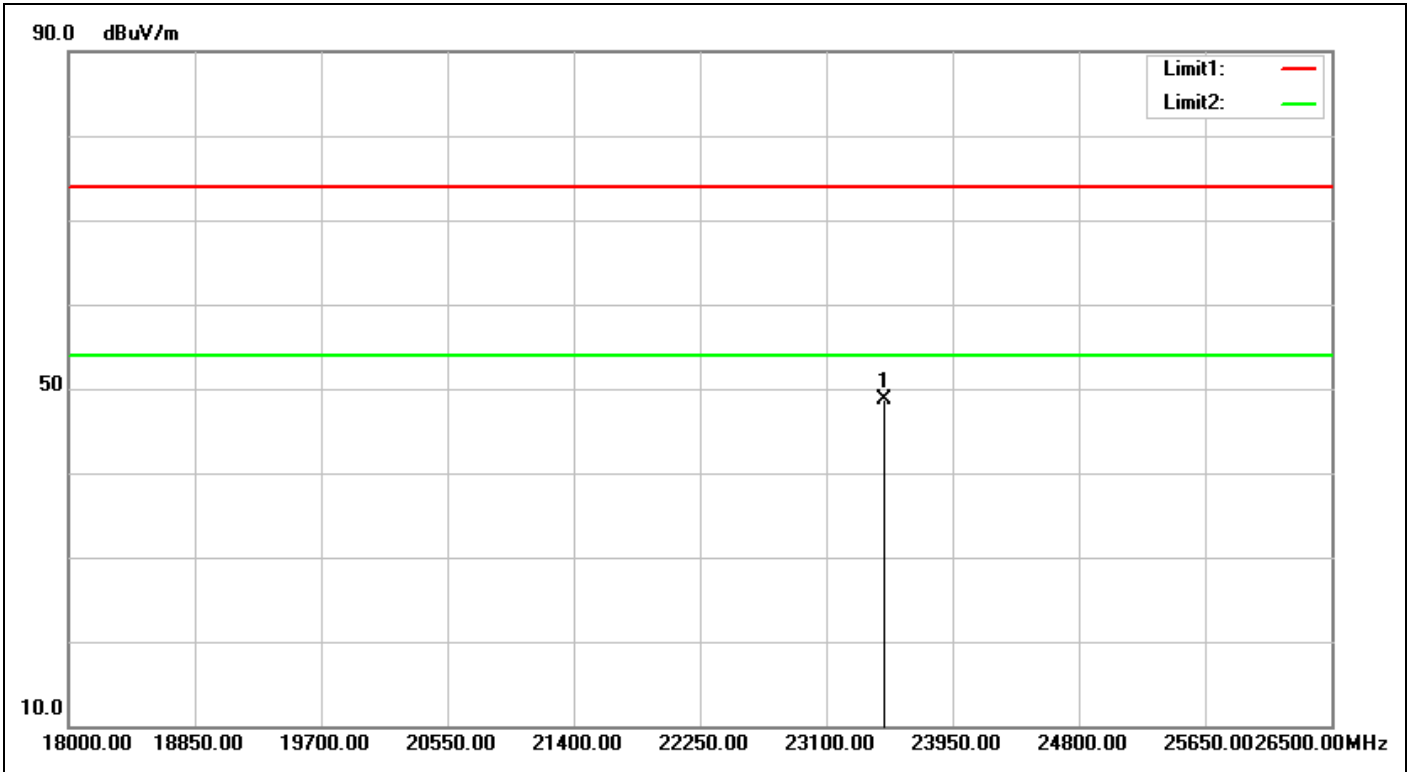
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 13:42:34
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21774.000	32.33	17.15	49.48	74.00	-24.52	peak			



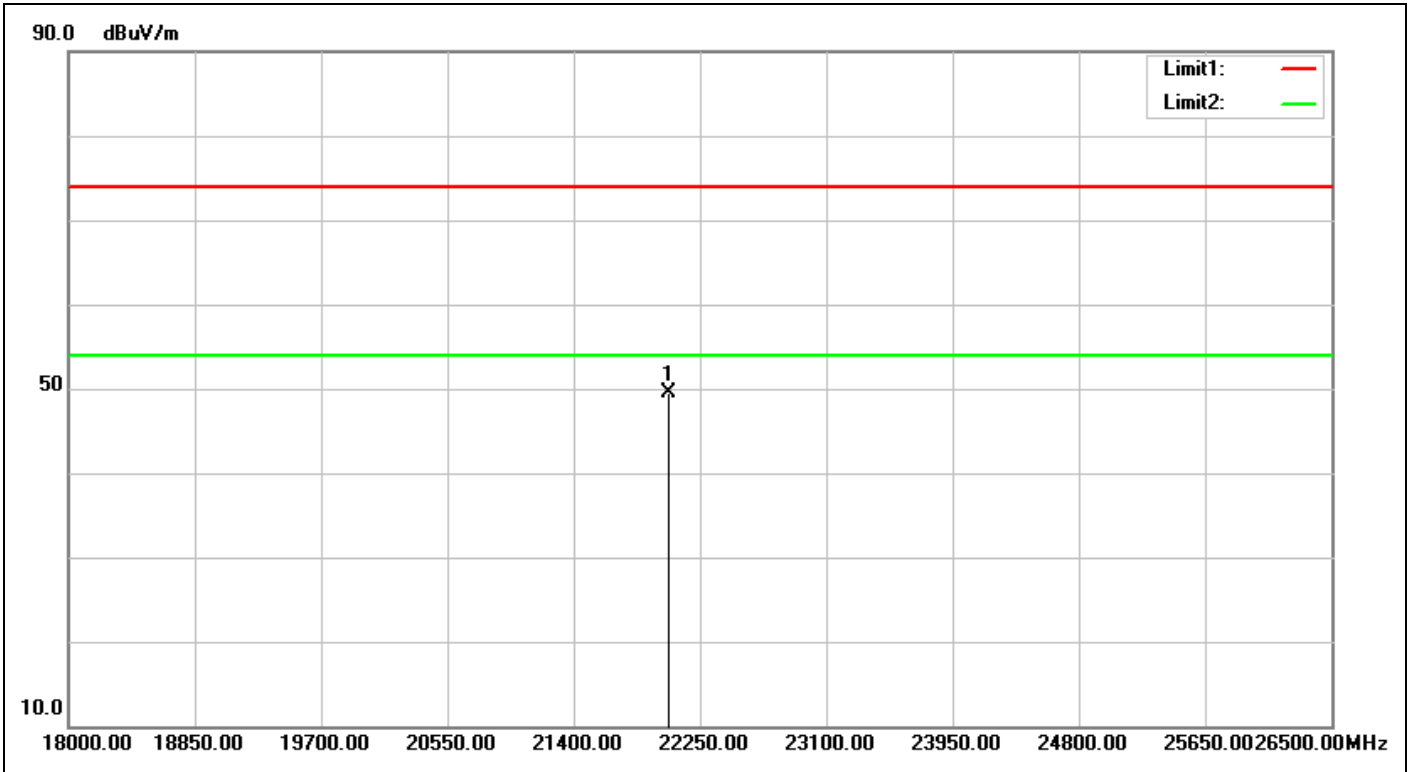
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 13:42:48
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19717.000	30.27	19.52	49.79	74.00	-24.21	peak			



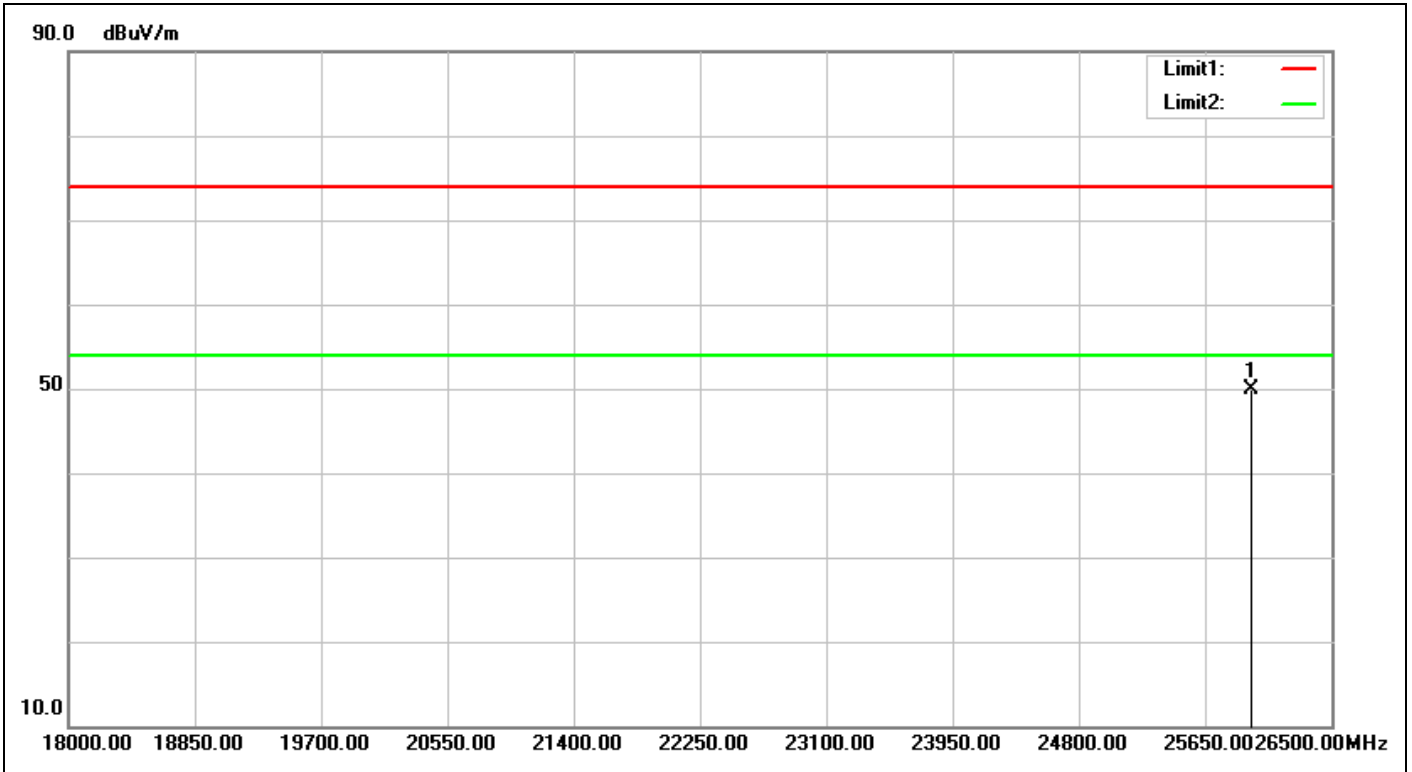
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 13:42:59
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23491.000	32.42	16.32	48.74	74.00	-25.26	peak			



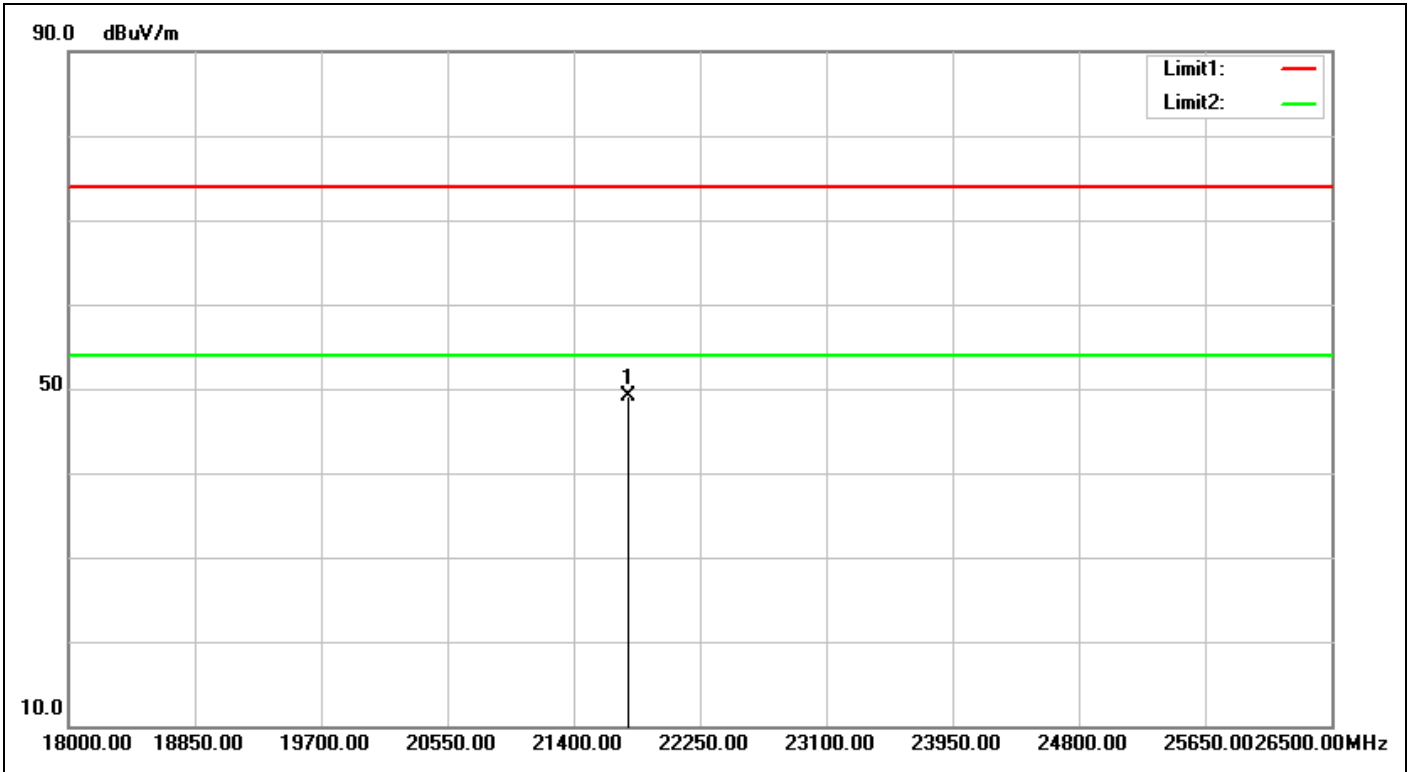
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 13:43:12
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22037.500	32.55	17.03	49.58	74.00	-24.42	peak			



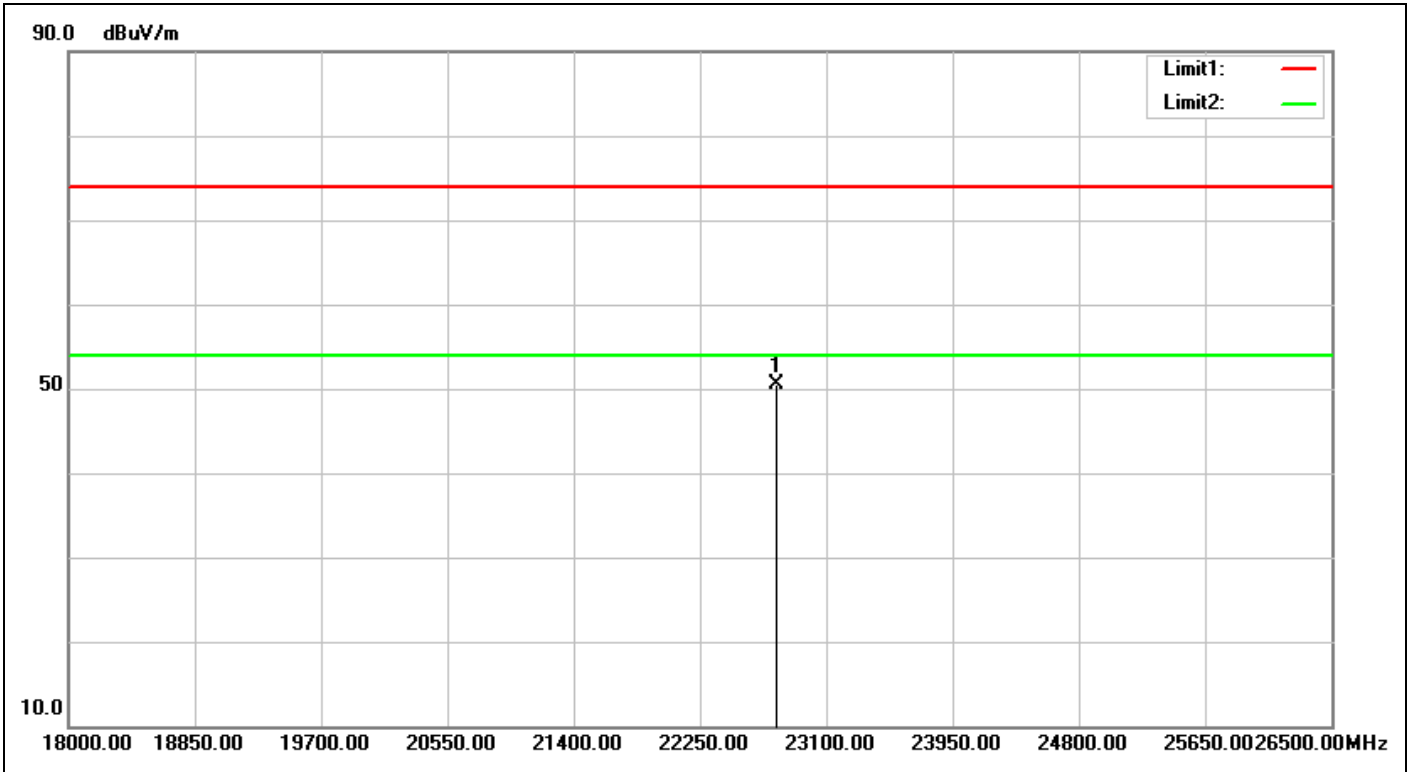
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 13:43:20
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25956.000	34.72	15.27	49.99	74.00	-24.01	peak			



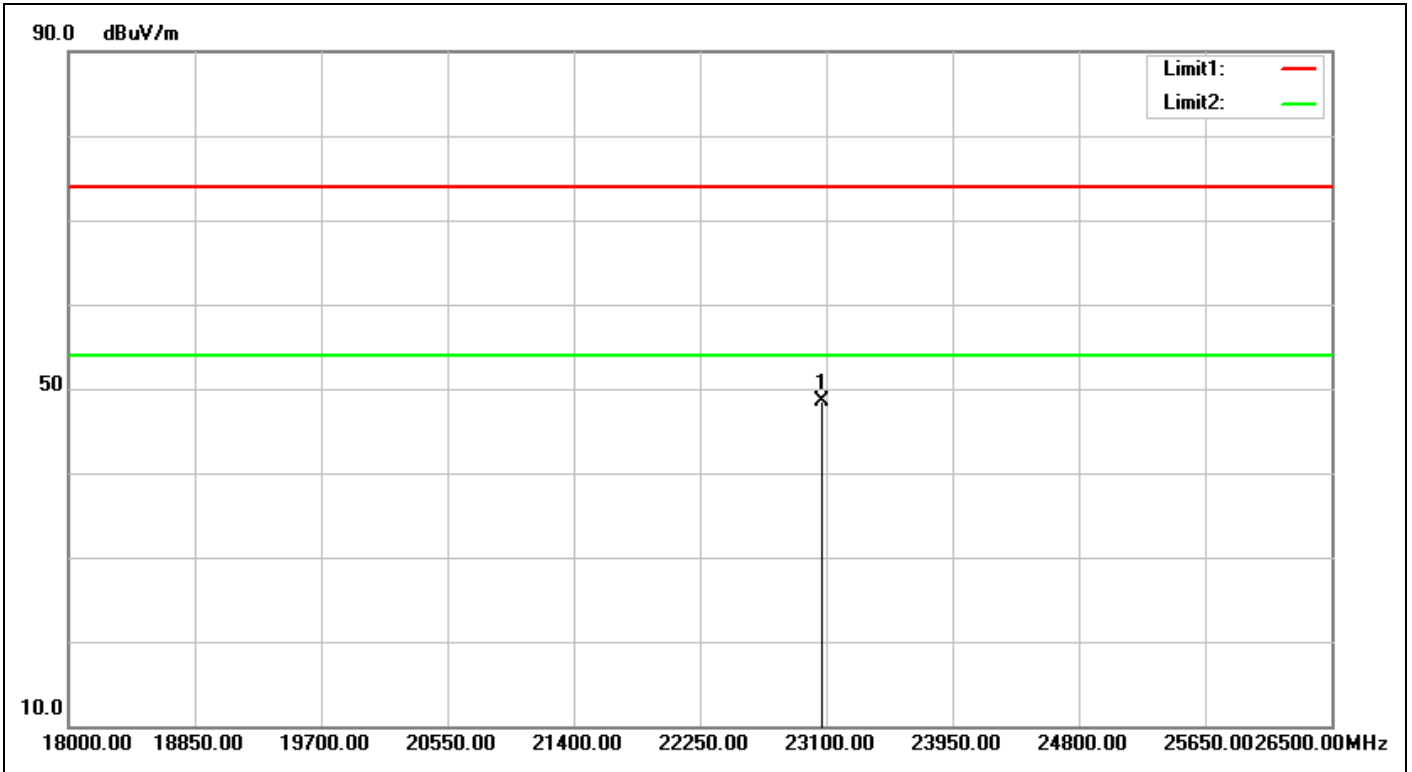
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 13:43:34
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21765.500	32.33	16.81	49.14	74.00	-24.86	peak			



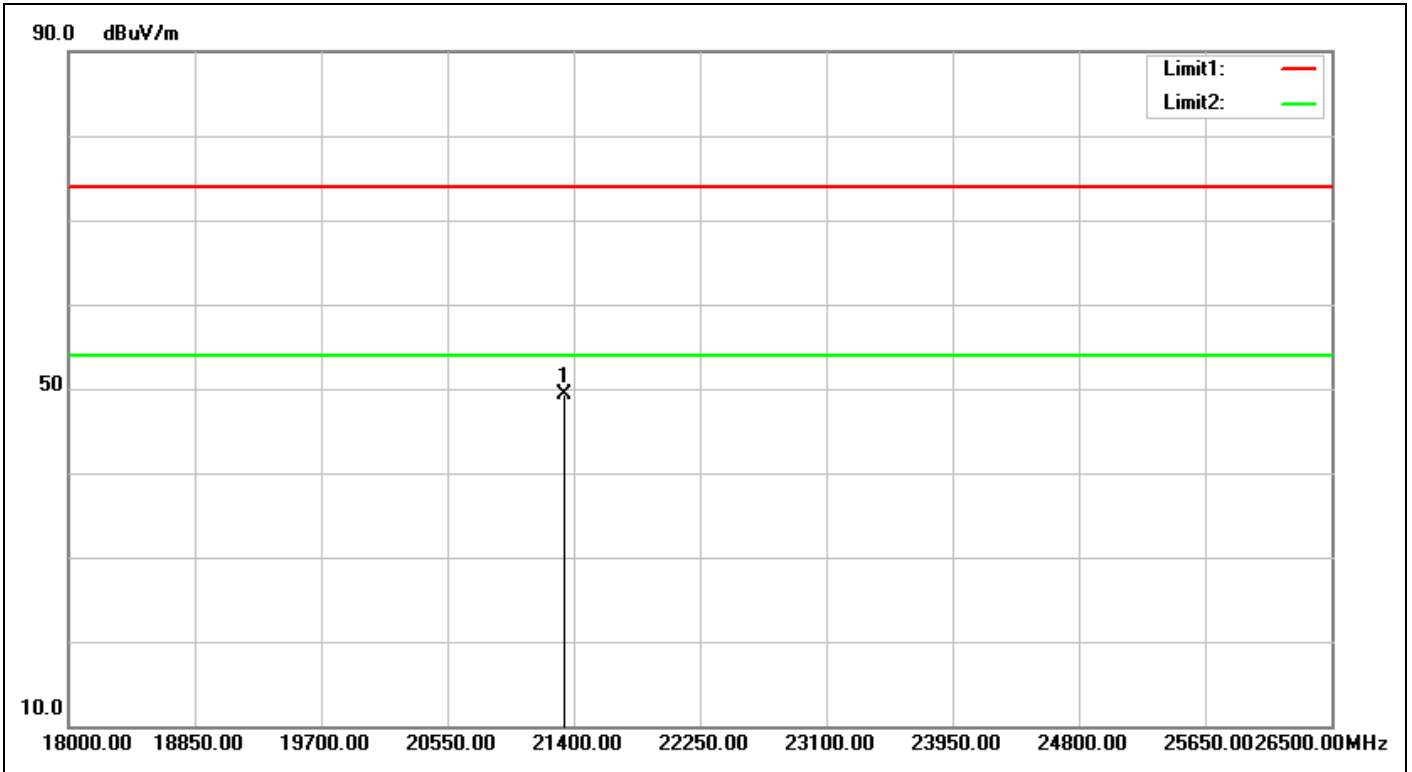
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 13:43:42
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2412-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22760.000	32.08	18.36	50.44	74.00	-23.56	peak			



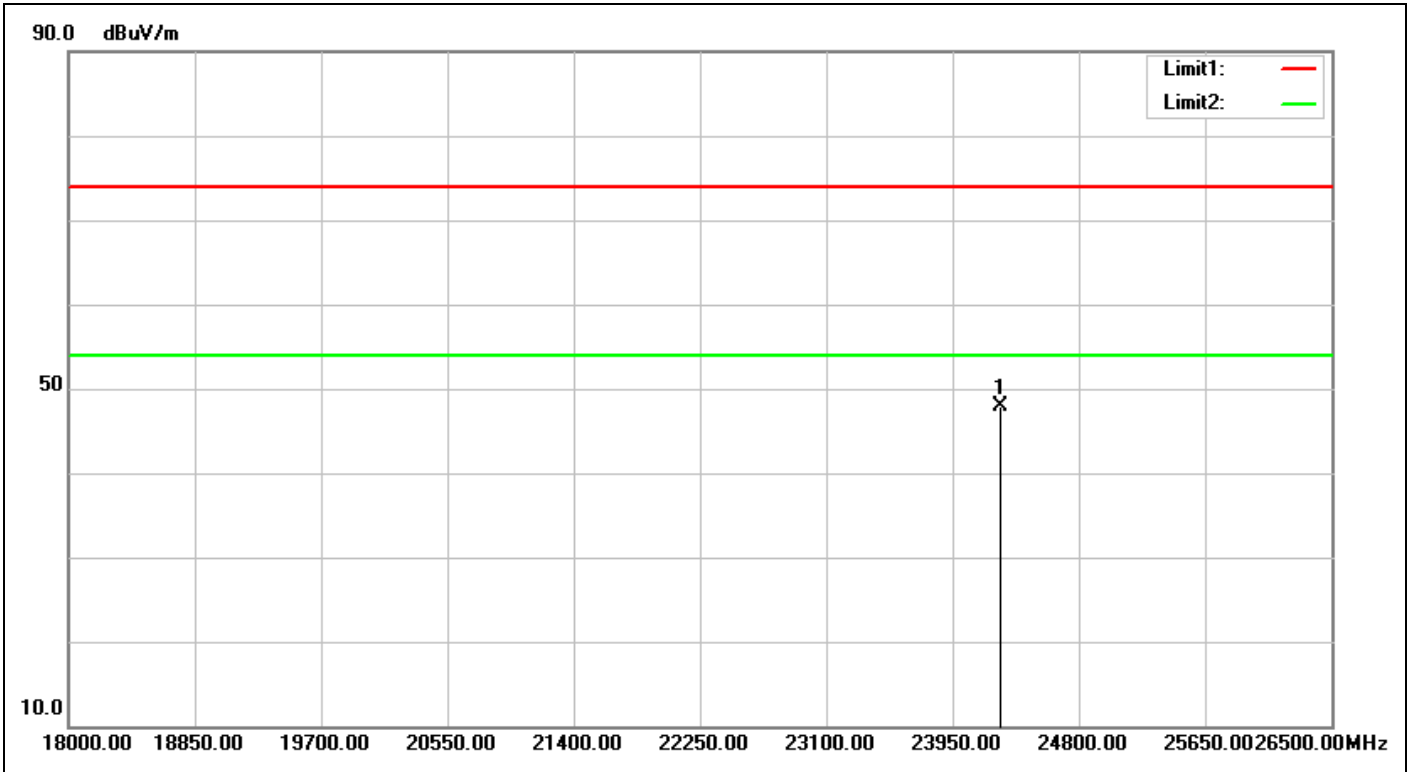
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 13:43:53
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23066.000	32.00	16.58	48.58	74.00	-25.42	peak			



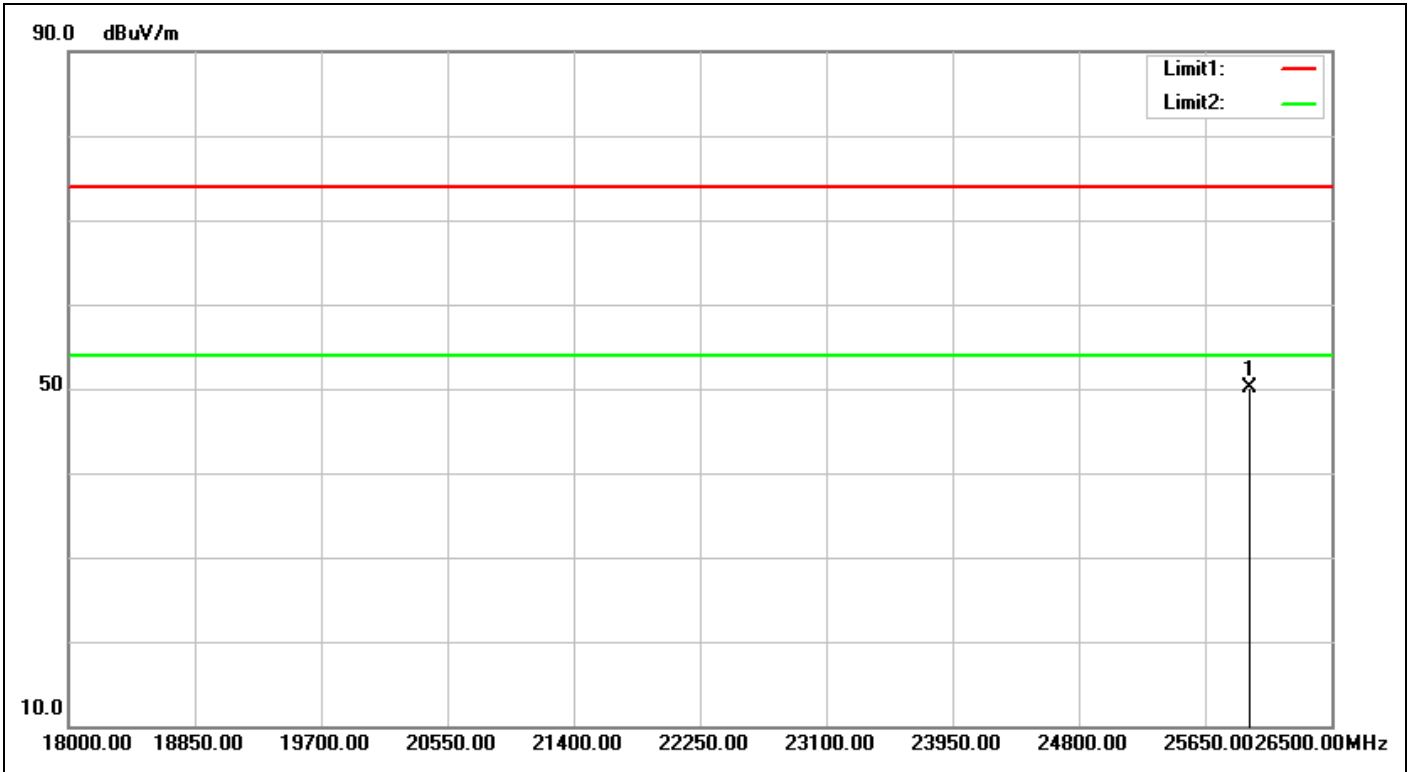
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 13:44:01
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21340.500	31.79	17.42	49.21	74.00	-24.79	peak			



Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/27 13:44:13
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24273.000	32.03	15.80	47.83	74.00	-26.17	peak			



Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/27 13:44:22
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	G-2462-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25947.500	34.72	15.35	50.07	74.00	-23.93	peak			

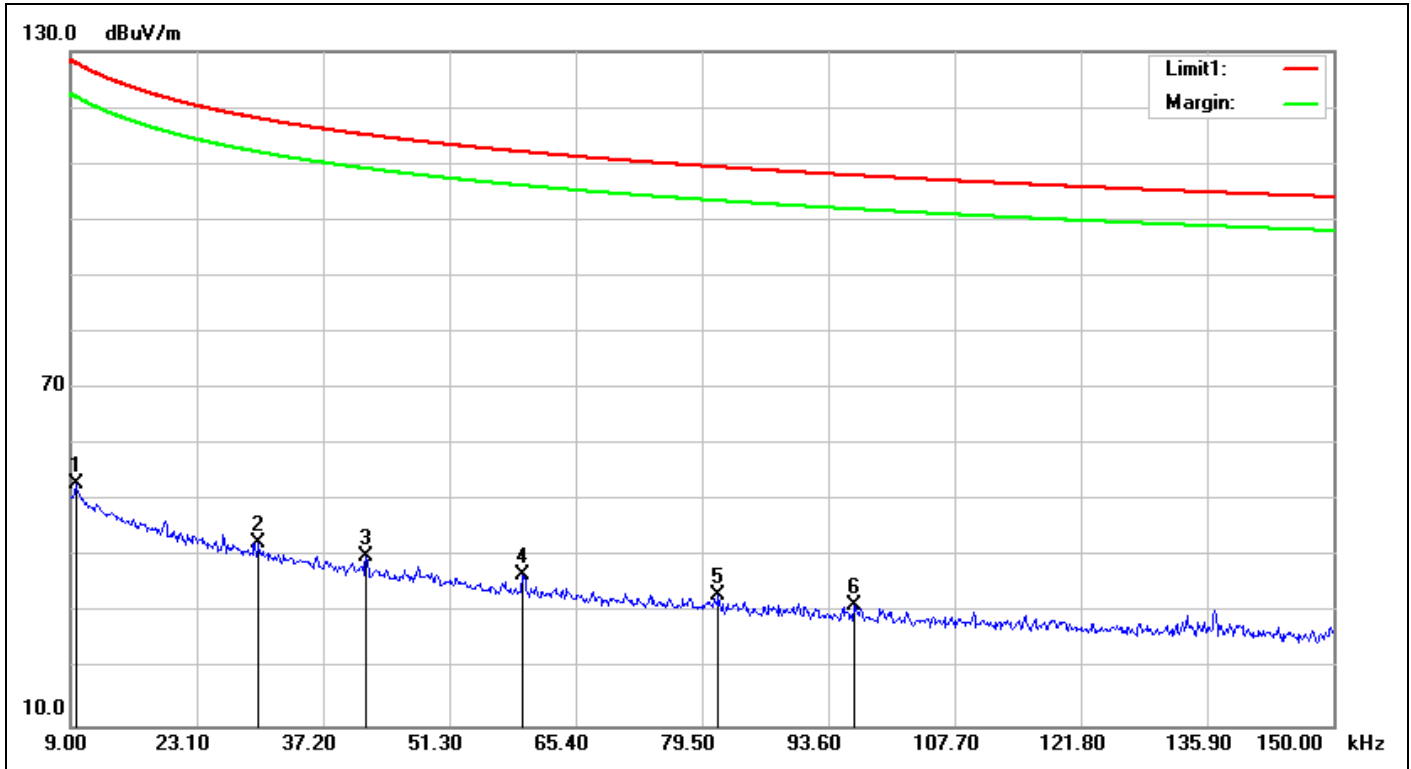
Spurious Emissions, TX Mode, 9k-1G (FPWB-B434DRKZ)



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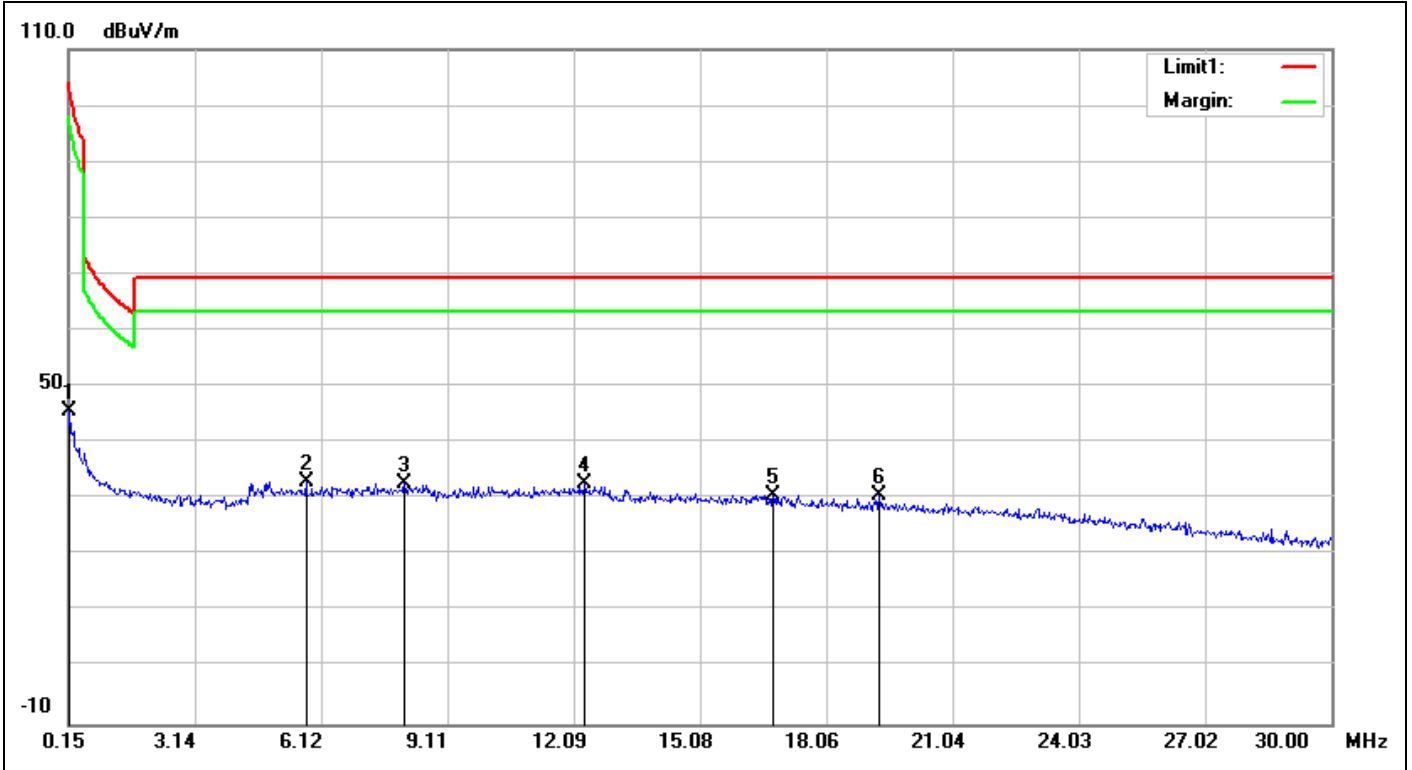
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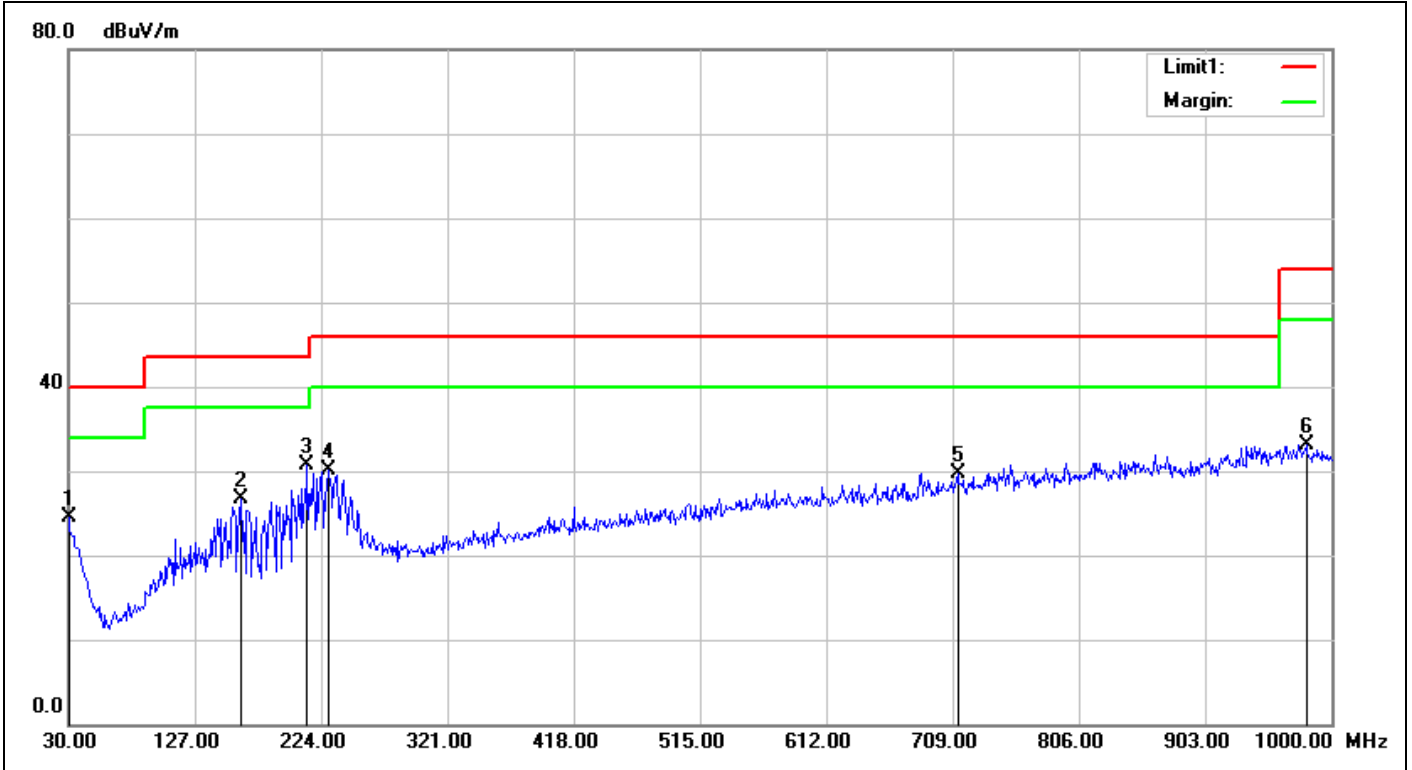
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/31 15:42:36
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 3.3V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	FPWB-B434DRKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:	Pre-scan only, please refer to cover page for detailed information		

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	33.35	53.08	128.03	-74.95	QP	100	141	
2	0.0300	20.13	22.36	42.49	118.05	-75.56	QP	100	282	
3	0.0419	19.71	20.34	40.05	115.15	-75.10	QP	100	160	
4	0.0594	19.37	17.39	36.76	112.12	-75.36	QP	100	56	
5	0.0813	19.24	13.95	33.19	109.39	-76.20	QP	100	242	
6	0.0965	19.15	12.22	31.37	107.91	-76.54	QP	100	173	



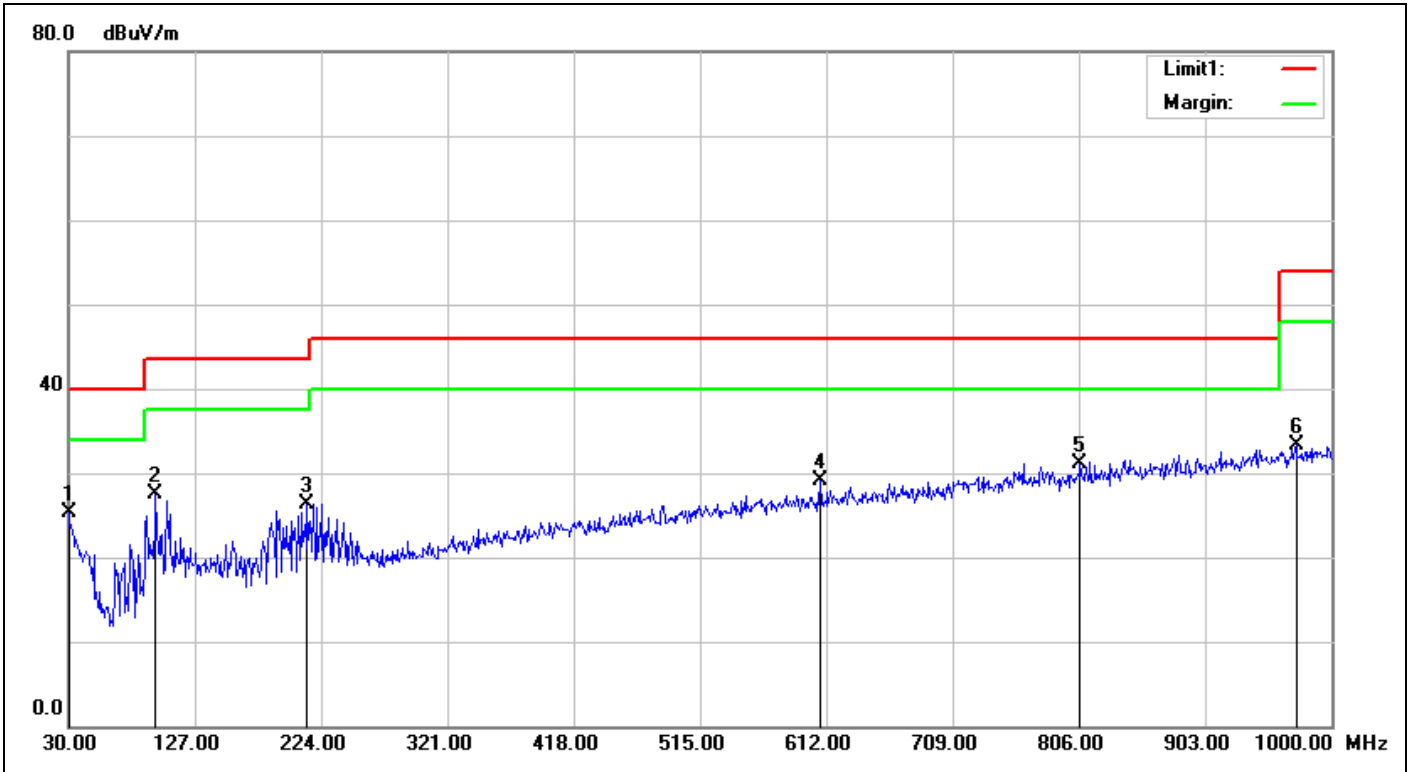
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/31 15:46:38
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 3.3V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	FPWB-B434DRKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:	Pre-scan only, please refer to cover page for detailed information		

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	26.73	45.79	102.50	-56.71	QP	100	35	
2	5.7618	19.83	13.20	33.03	69.50	-36.47	QP	100	288	
3	8.0901	20.05	12.65	32.70	69.50	-36.80	QP	100	205	
4	12.3586	20.64	12.13	32.77	69.50	-36.73	QP	100	69	
5	16.8063	21.42	9.38	30.80	69.50	-38.70	QP	100	67	
6	19.3137	21.86	8.66	30.52	69.50	-38.98	QP	100	309	



Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/31 16:01:11
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 3.3V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	FPWB-B434DRKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:	Pre-scan only, please refer to cover page for detailed information		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.25	24.74	24.49	40.00	-15.51	QP	100	101	
2	162.8899	-8.34	34.99	26.65	43.50	-16.85	QP	100	136	
3	213.3300	-8.46	39.09	30.63	43.50	-12.87	QP	100	133	
4	229.8200	-7.57	37.58	30.01	46.00	-15.99	QP	100	131	
5	712.8800	1.55	28.15	29.70	46.00	-16.30	QP	100	200	
6	980.6000	5.64	27.54	33.18	54.00	-20.82	QP	100	17	



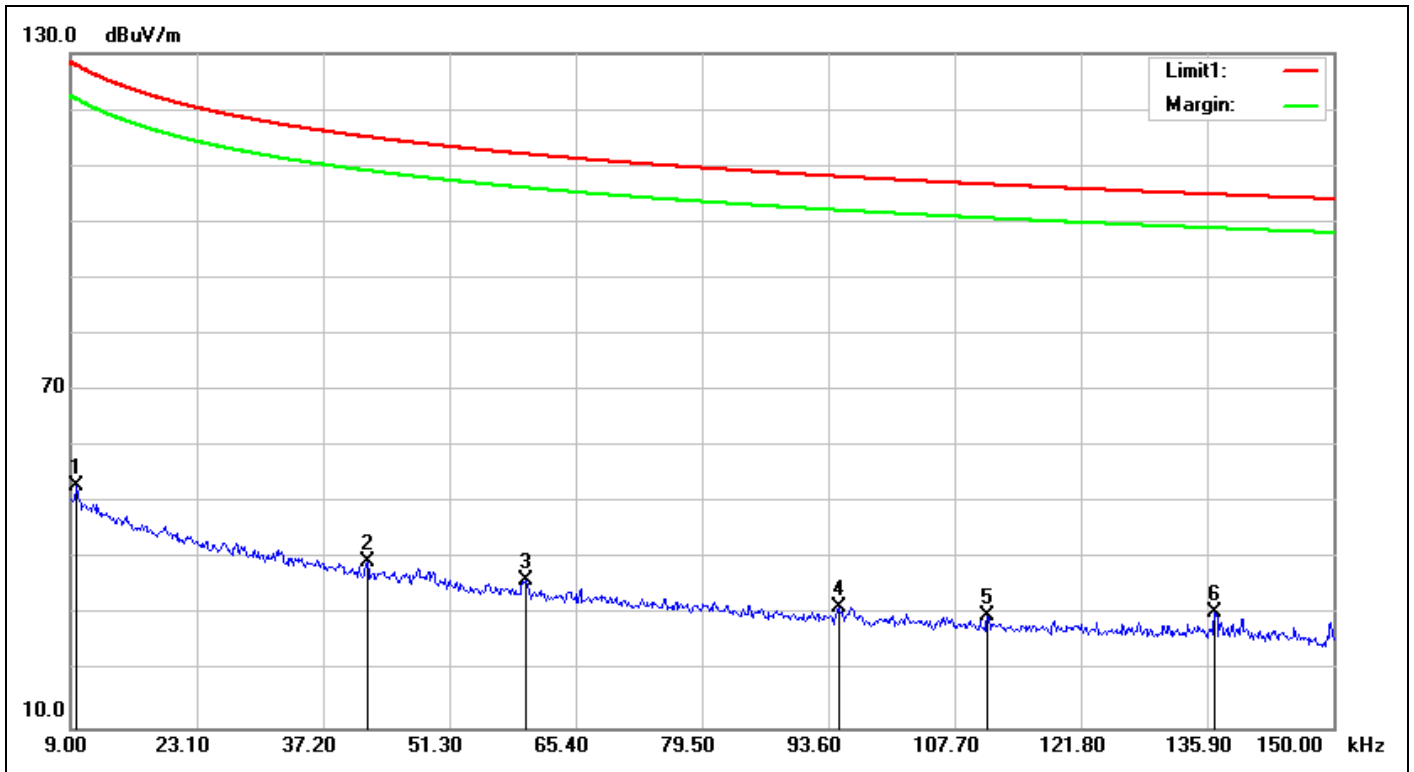
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/31 16:02:15
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 3.3V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	FPWB-B434DRKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:	Pre-scan only, please refer to cover page for detailed information		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.25	25.54	25.29	40.00	-14.71	QP	100	22	
2	96.9300	-9.94	37.36	27.42	43.50	-16.08	QP	100	190	
3	213.3300	-8.46	34.85	26.39	43.50	-17.11	QP	100	83	
4	607.1500	0.15	29.00	29.15	46.00	-16.85	QP	100	17	
5	806.9700	2.90	28.23	31.13	46.00	-14.87	QP	100	81	
6	972.8400	5.60	27.71	33.31	54.00	-20.69	QP	100	118	

Spurious Emissions, TX Mode, 9k-1G

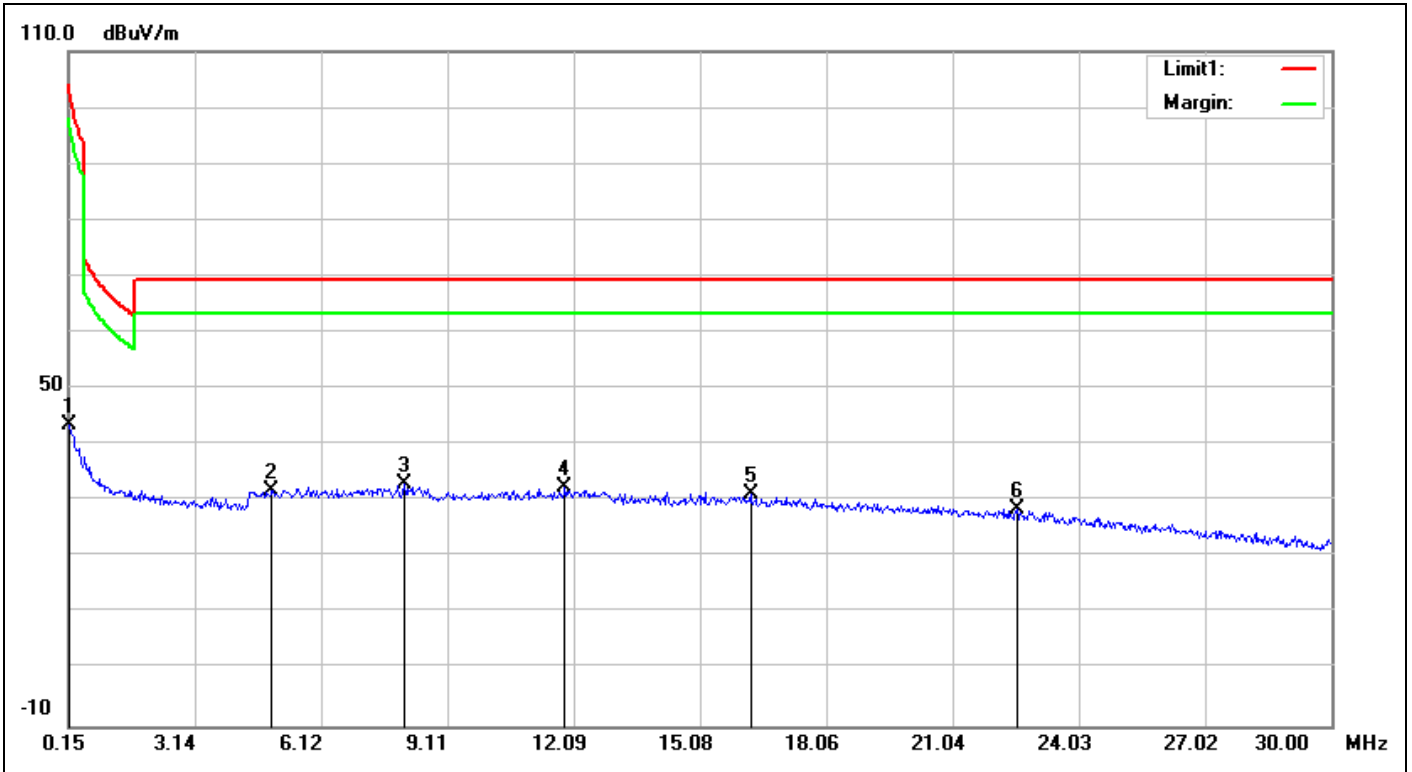


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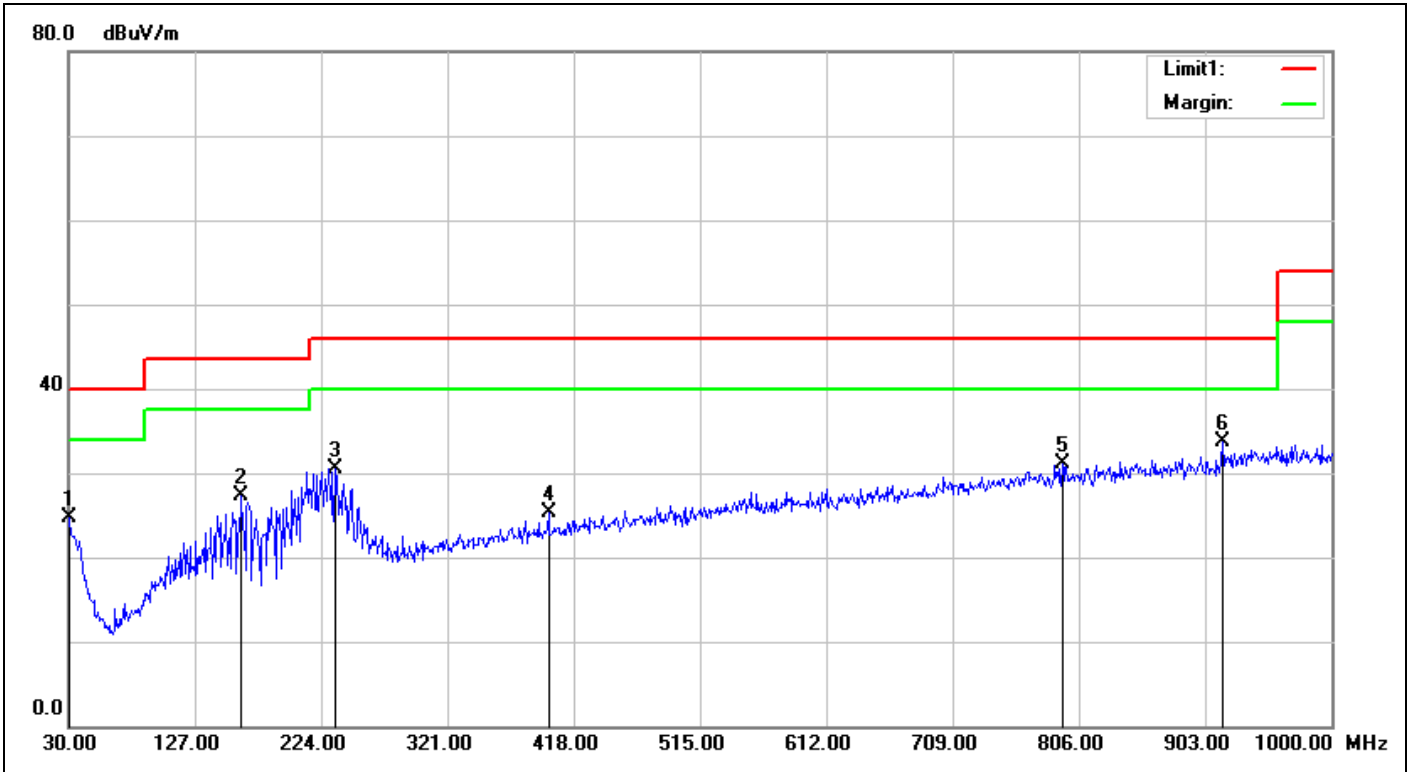
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/31 15:39:21
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
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	33.15	52.96	127.85	-74.89	QP	100	1	
2	0.0421	19.71	19.84	39.55	115.11	-75.56	QP	100	27	
3	0.0597	19.37	16.81	36.18	112.07	-75.89	QP	100	51	
4	0.0947	19.16	12.30	31.46	108.07	-76.61	QP	100	73	
5	0.1113	19.12	10.75	29.87	106.67	-76.80	QP	100	27	
6	0.1367	19.09	11.44	30.53	104.88	-74.35	QP	100	0	



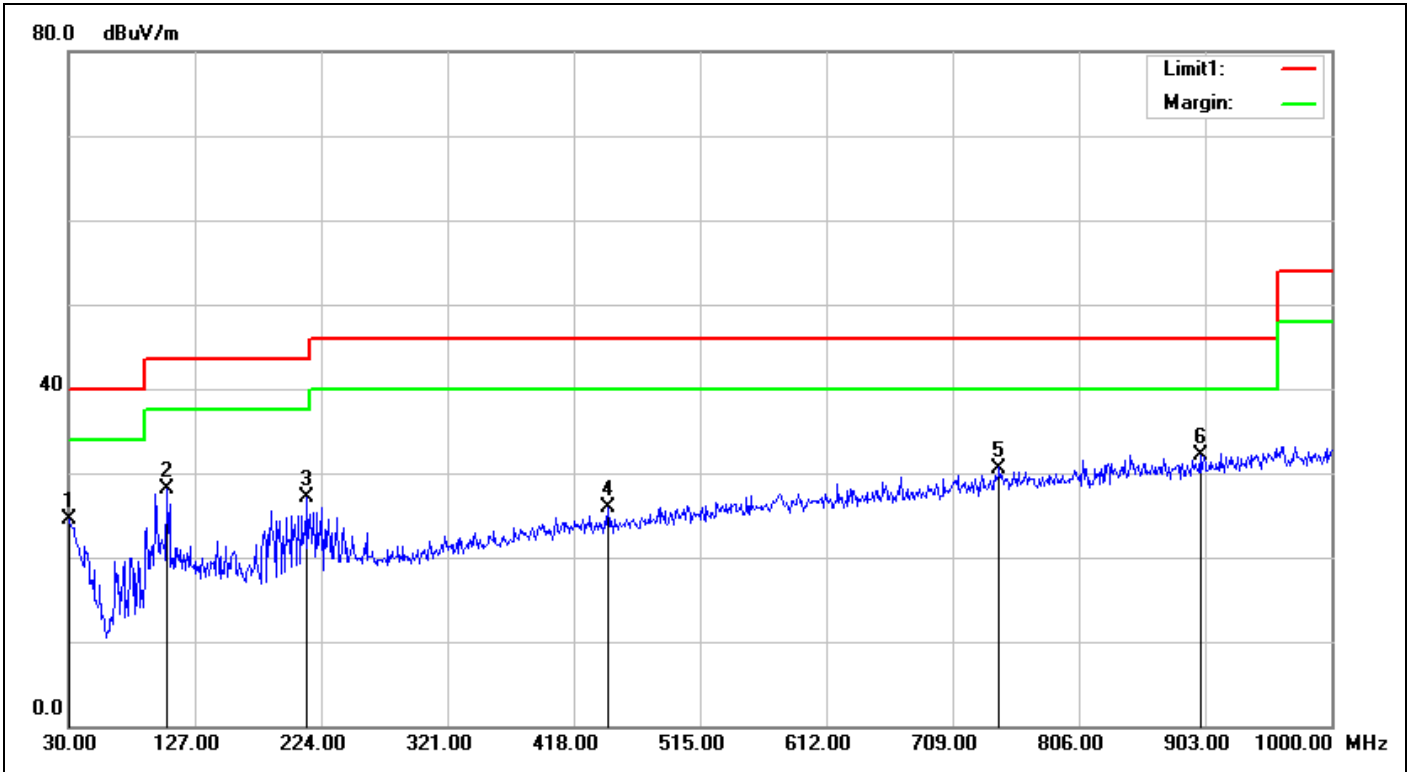
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/31 15:47:42
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

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	24.57	43.63	102.50	-58.87	QP	100	203	
2	4.9559	19.73	12.09	31.82	69.50	-37.68	QP	100	352	
3	8.0901	20.05	12.95	33.00	69.50	-36.50	QP	100	192	
4	11.8811	20.55	12.05	32.60	69.50	-36.90	QP	100	195	
5	16.2690	21.33	9.88	31.21	69.50	-38.29	QP	100	9	
6	22.5674	22.15	6.38	28.53	69.50	-40.97	QP	100	187	



Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/31 15:58:00
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.25	24.87	24.62	40.00	-15.38	QP	100	343	
2	162.8899	-8.34	35.65	27.31	43.50	-16.19	QP	100	107	
3	234.6700	-7.21	37.79	30.58	46.00	-15.42	QP	100	133	
4	398.6000	-2.45	27.66	25.21	46.00	-20.79	QP	100	115	
5	793.3900	2.71	28.33	31.04	46.00	-14.96	QP	100	210	
6	916.5800	4.54	29.21	33.75	46.00	-12.25	QP	100	176	



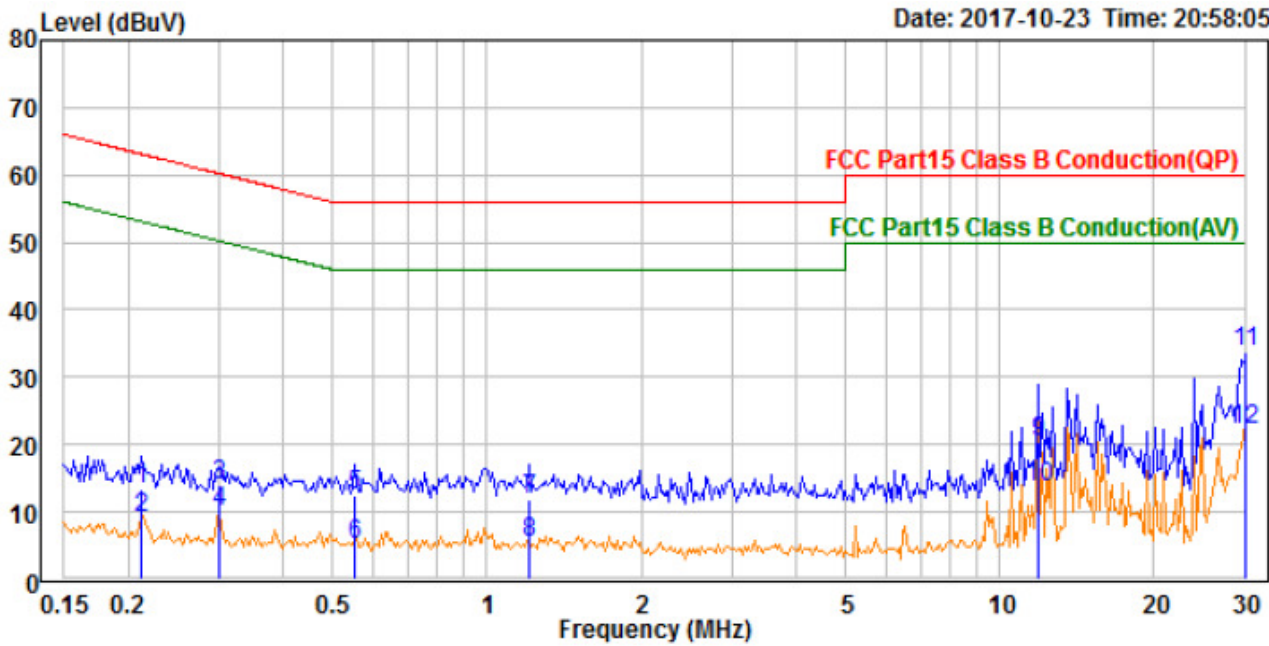
Service No.:	114070293	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/31 15:59:04
Applicant:	Hon Hai Precision Industry Co., Ltd	Test Rating:	DC 5V
Product:	WLAN 802.11 b/g/n 1x1 AIOT Module	Temp.(°C)/Hum.(%):	21(°C)/53%
Model No.:	CPWB-B450JBKZ	Test Engineer:	George Yang
Test Mode:	B-2437-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.25	24.77	24.52	40.00	-15.48	QP	100	165	
2	105.6600	-8.77	36.80	28.03	43.50	-15.47	QP	100	360	
3	213.3300	-8.46	35.47	27.01	43.50	-16.49	QP	100	78	
4	444.1900	-1.96	27.77	25.81	46.00	-20.19	QP	100	110	
5	744.8900	2.26	28.34	30.60	46.00	-15.40	QP	100	14	
6	899.1200	4.06	28.01	32.07	46.00	-13.93	QP	100	213	

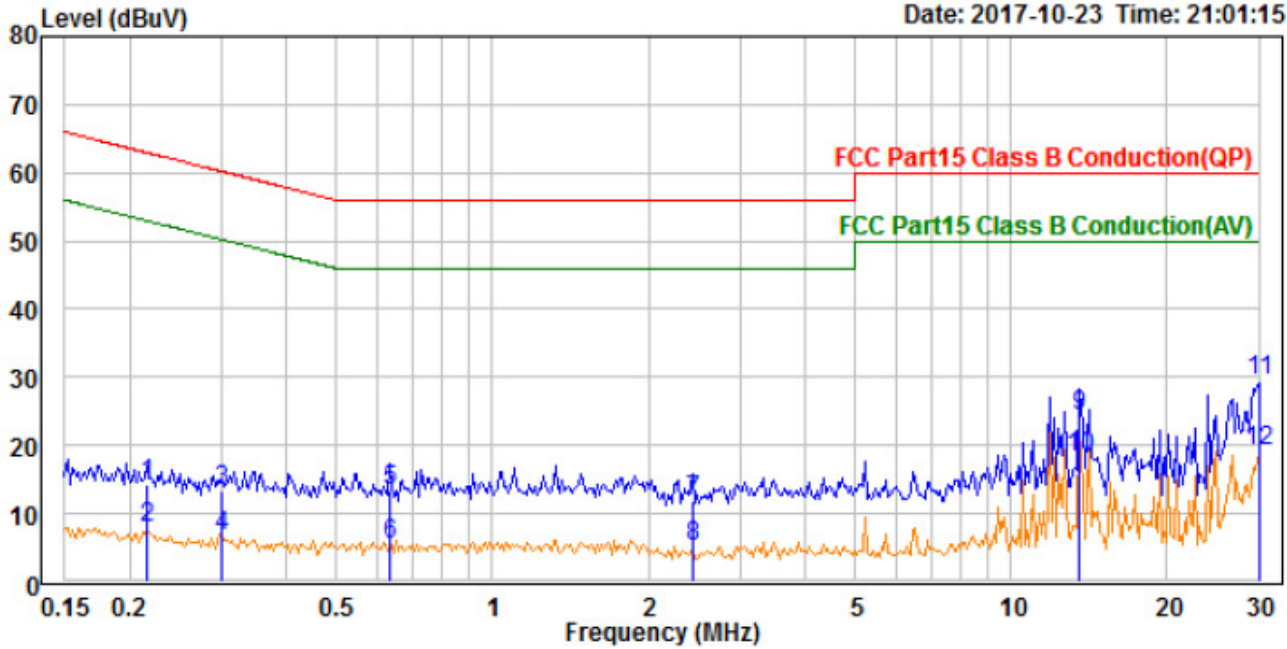
Mains, 150k-30M

CPWB-B450JBKZ

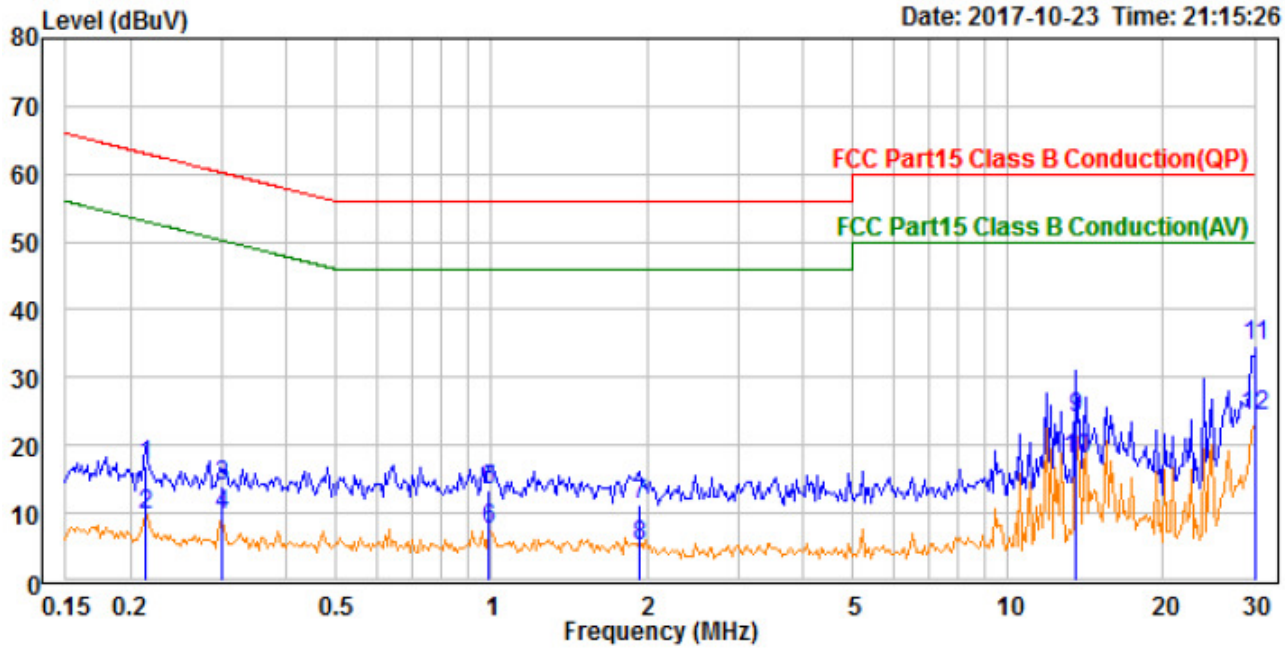
Date: 2017-10-23 Time: 20:58:05



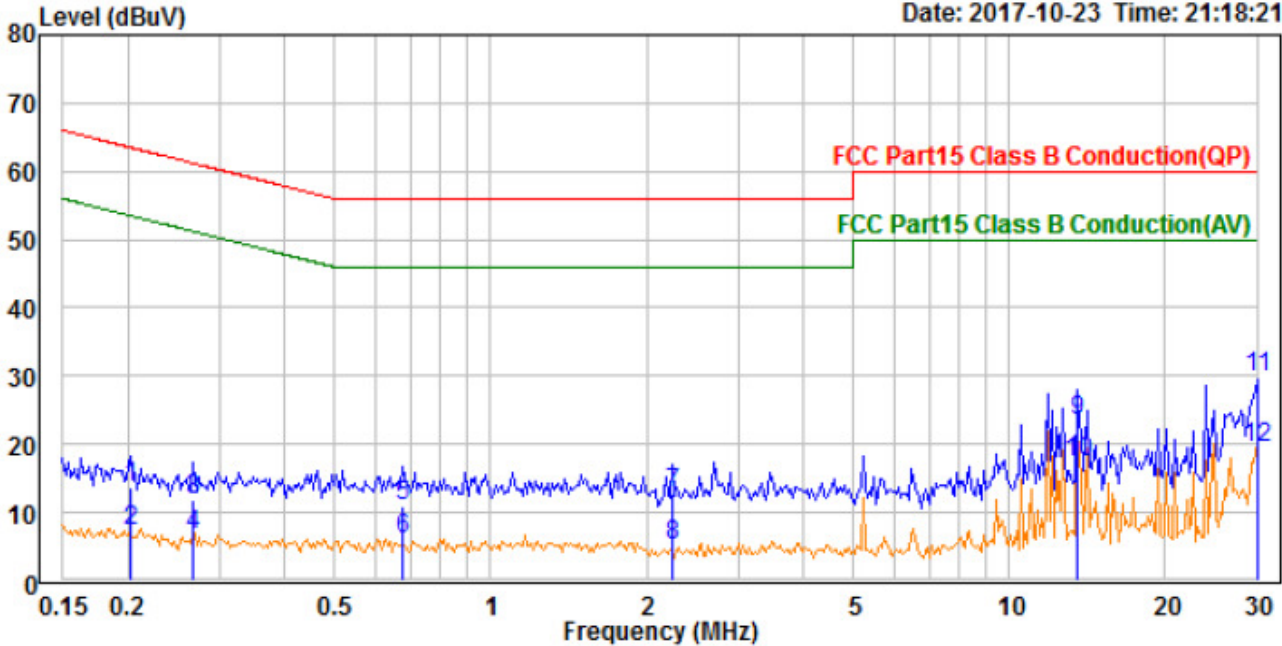
	Read Freq	Read Level	Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dB	
1	0.212	3.62	9.66	13.28	63.11	-49.83 QP
2	0.212	-0.67	9.66	8.99	53.11	-44.12 Average
3	0.301	4.49	9.65	14.14	60.22	-46.08 QP
4	0.301	0.32	9.65	9.97	50.22	-40.25 Average
5	0.552	2.75	9.65	12.40	56.00	-43.60 QP
6	0.552	-4.36	9.65	5.29	46.00	-40.71 Average
7	1.210	2.08	9.65	11.73	56.00	-44.27 QP
8	1.210	-4.13	9.65	5.52	46.00	-40.48 Average
9	11.902	10.46	9.78	20.24	60.00	-39.76 QP
10	11.902	4.00	9.78	13.78	50.00	-36.22 Average
11	30.000	23.79	9.83	33.62	60.00	-26.38 QP
12	30.000	12.36	9.83	22.19	50.00	-27.81 Average



	Read Freq	Read Level	Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dB	
1	0.217	4.51	9.67	14.18	62.95	-48.77 QP
2	0.217	-1.90	9.67	7.77	52.95	-45.18 Average
3	0.301	3.79	9.65	13.44	60.22	-46.78 QP
4	0.301	-2.83	9.65	6.82	50.22	-43.40 Average
5	0.634	3.84	9.65	13.49	56.00	-42.51 QP
6	0.634	-4.19	9.65	5.46	46.00	-40.54 Average
7	2.426	2.26	9.68	11.94	56.00	-44.06 QP
8	2.426	-4.48	9.68	5.20	46.00	-40.80 Average
9	13.544	14.61	9.83	24.44	60.00	-35.56 QP
10	13.544	8.56	9.83	18.39	50.00	-31.61 Average
11	30.000	19.53	9.94	29.47	60.00	-30.53 QP
12	30.000	9.13	9.94	19.07	50.00	-30.93 Average



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.215	7.32	9.66	16.98	63.03	-46.05	QP
2	0.215	-0.06	9.66	9.60	53.03	-43.43	Average
3	0.301	4.44	9.65	14.09	60.22	-46.13	QP
4	0.301	0.07	9.65	9.72	50.22	-40.50	Average
5	0.992	3.71	9.65	13.36	56.00	-42.64	QP
6	0.992	-2.18	9.65	7.47	46.00	-38.53	Average
7	1.930	1.66	9.66	11.32	56.00	-44.68	QP
8	1.930	-4.47	9.66	5.19	46.00	-40.81	Average
9	13.544	14.21	9.80	24.01	60.00	-35.99	QP
10	13.544	8.15	9.80	17.95	50.00	-32.05	Average
11	30.000	24.82	9.83	34.65	60.00	-25.35	QP
12	30.000	14.42	9.83	24.25	50.00	-25.75	Average



	Read Freq	Read Level	Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dB	
1	0.202	4.16	9.67	13.83	63.52	-49.69 QP
2	0.202	-2.27	9.67	7.40	53.52	-46.12 Average
3	0.267	2.32	9.66	11.98	61.21	-49.23 QP
4	0.267	-2.98	9.66	6.68	51.21	-44.53 Average
5	0.680	1.40	9.65	11.05	56.00	-44.95 QP
6	0.680	-3.54	9.65	6.11	46.00	-39.89 Average
7	2.241	3.14	9.67	12.81	56.00	-43.19 QP
8	2.241	-4.41	9.67	5.26	46.00	-40.74 Average
9	13.544	13.59	9.83	23.42	60.00	-36.58 QP
10	13.544	7.49	9.83	17.32	50.00	-32.68 Average
11	30.000	19.99	9.94	29.93	60.00	-30.07 QP
12	30.000	9.62	9.94	19.56	50.00	-30.44 Average