

Test Report No.50193571 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50193571 001AppendixD)

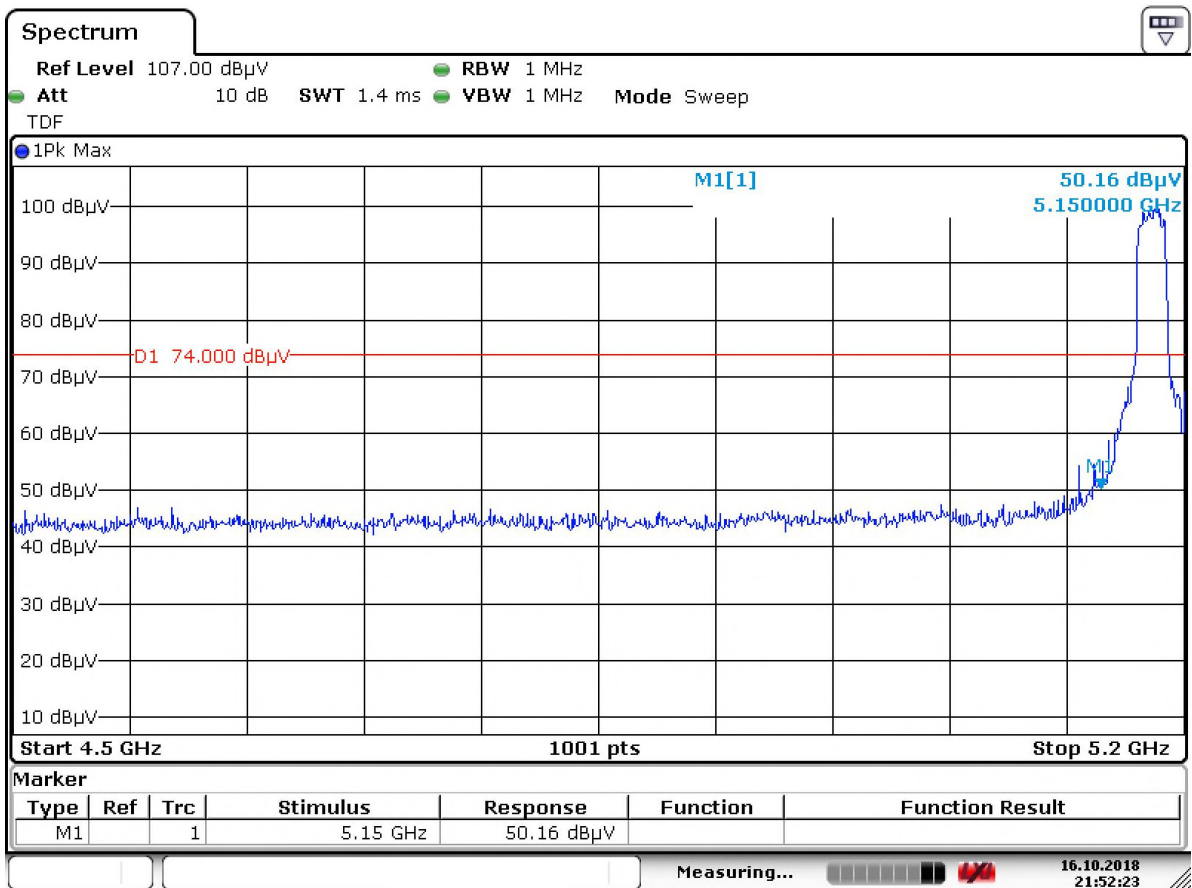
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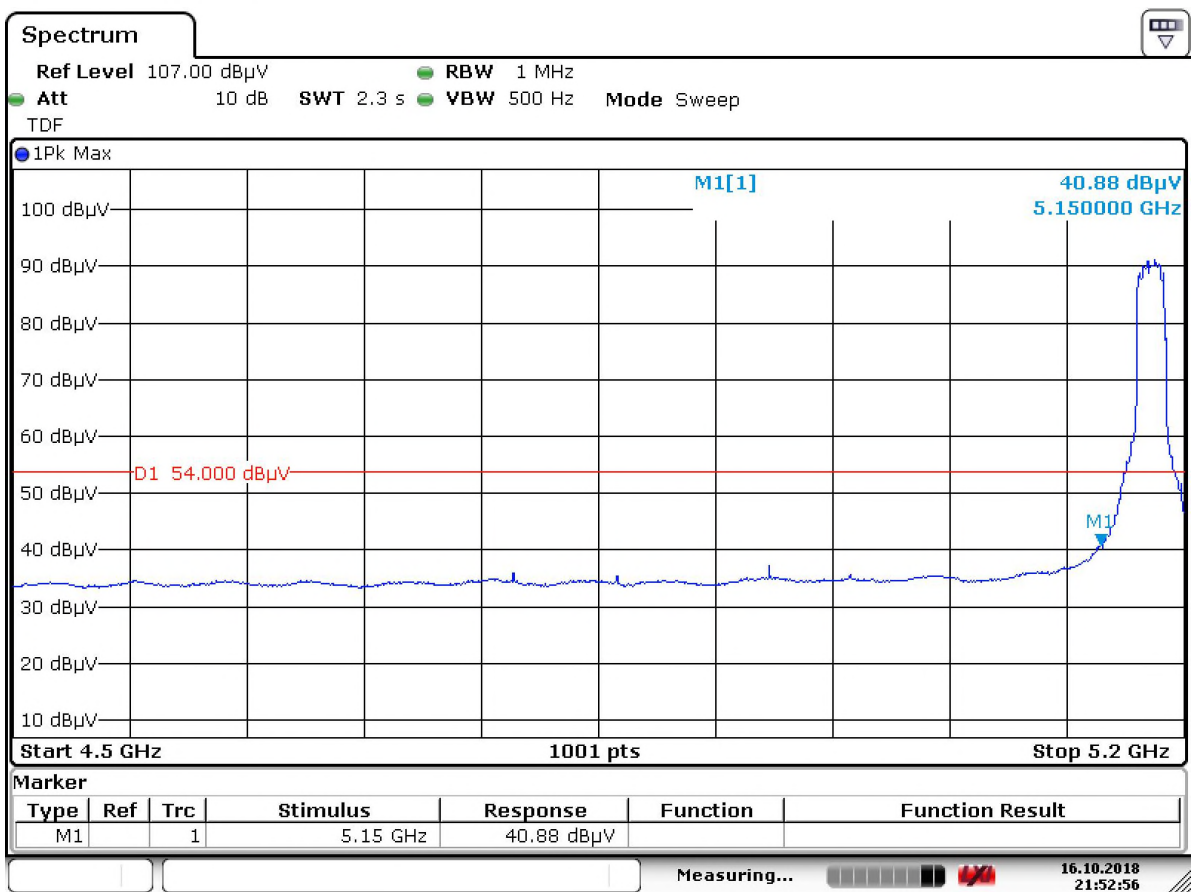
Spurious Emissions, Band Edges, 5.15-5.35G

802.11a

Low Channel (Horizontal)

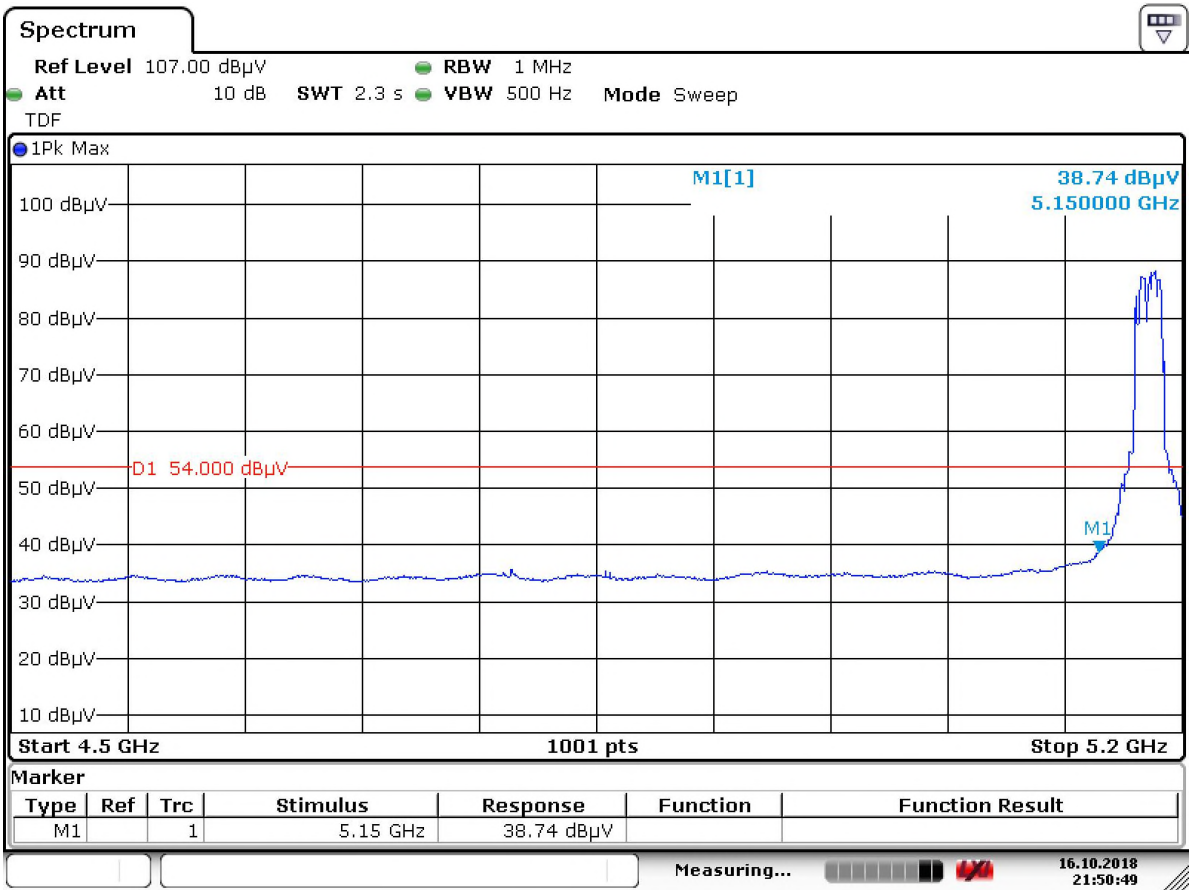


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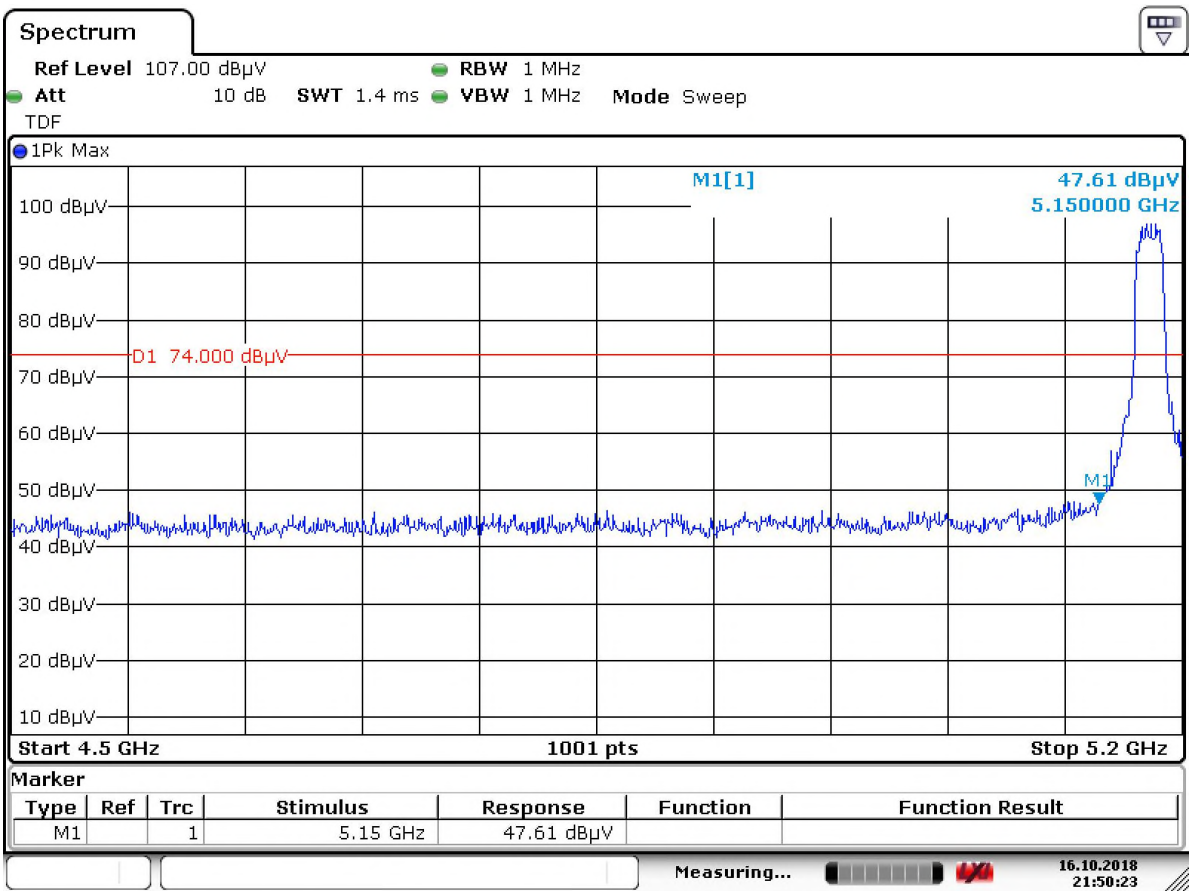


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Low Channel (Vertical)



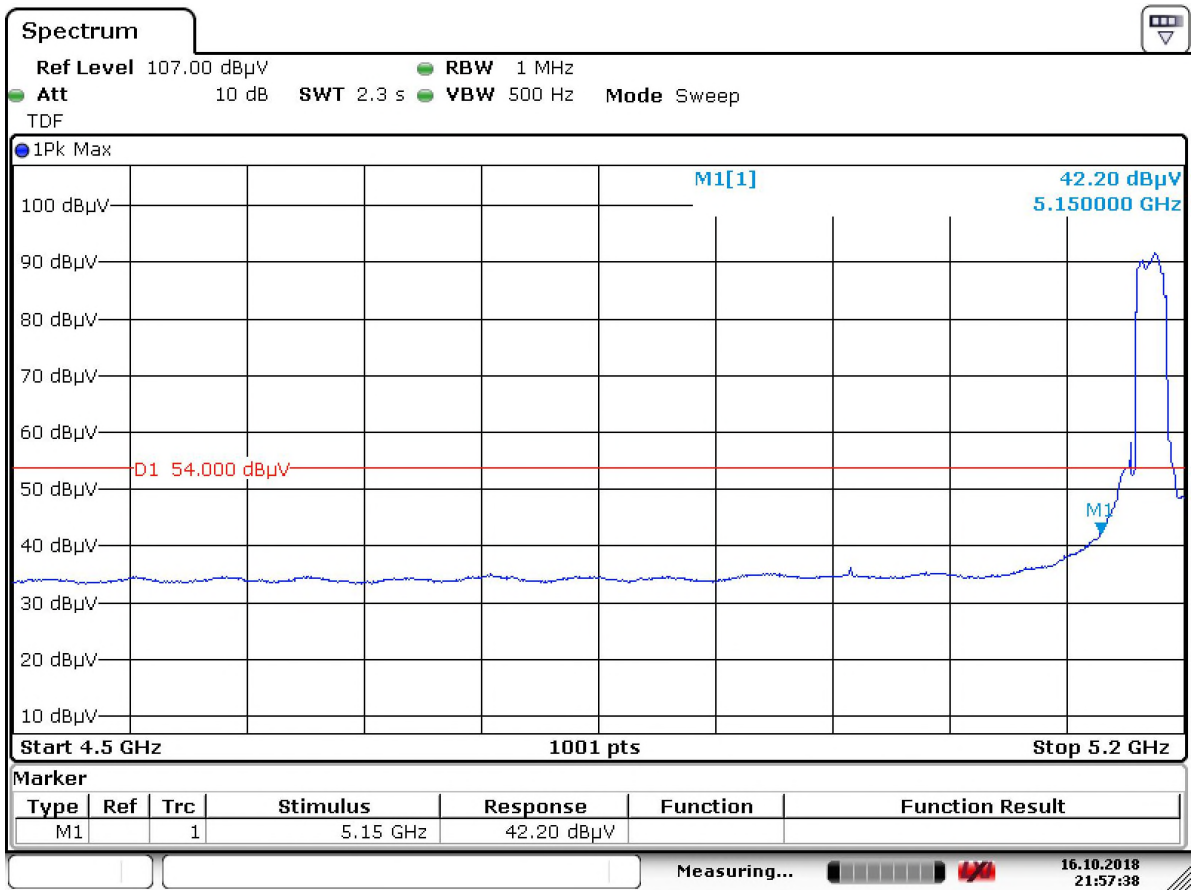
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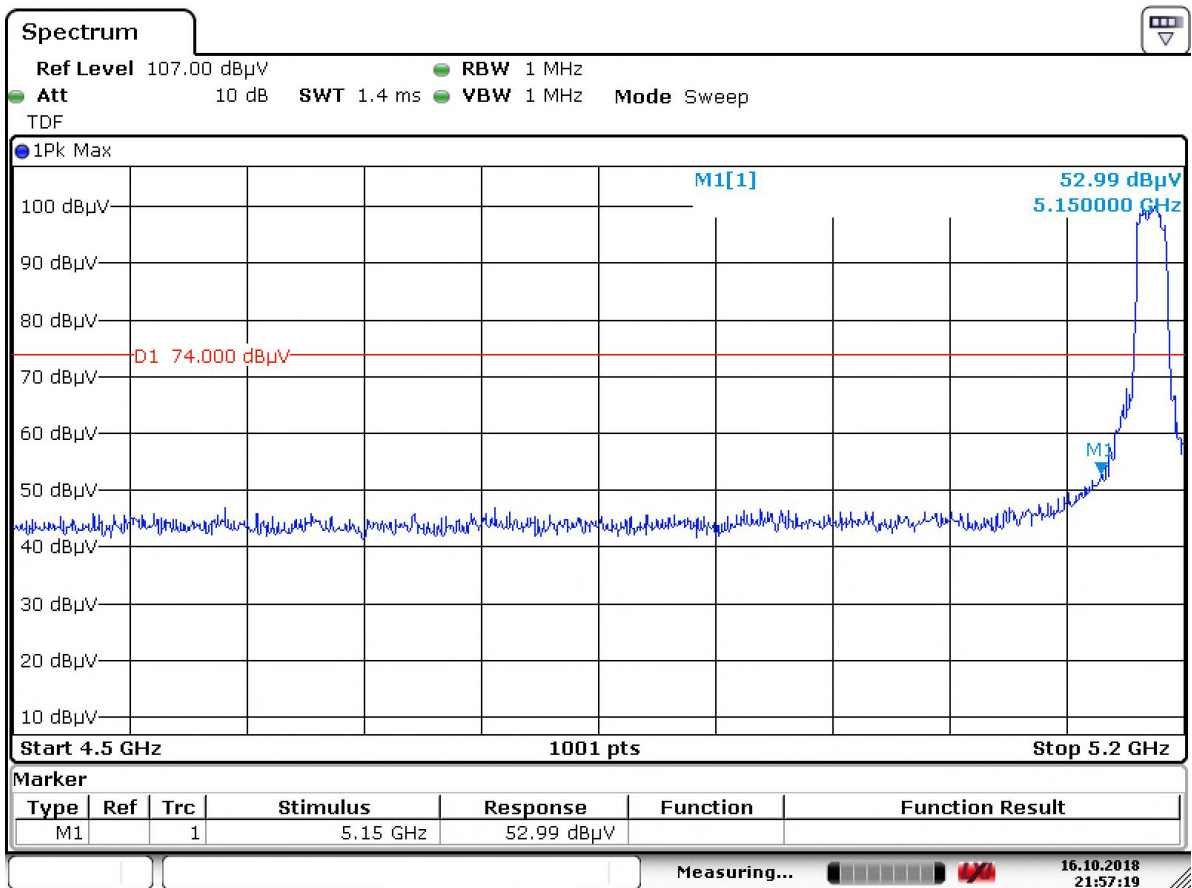
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802.11ac20

Low Channel (Horizontal)

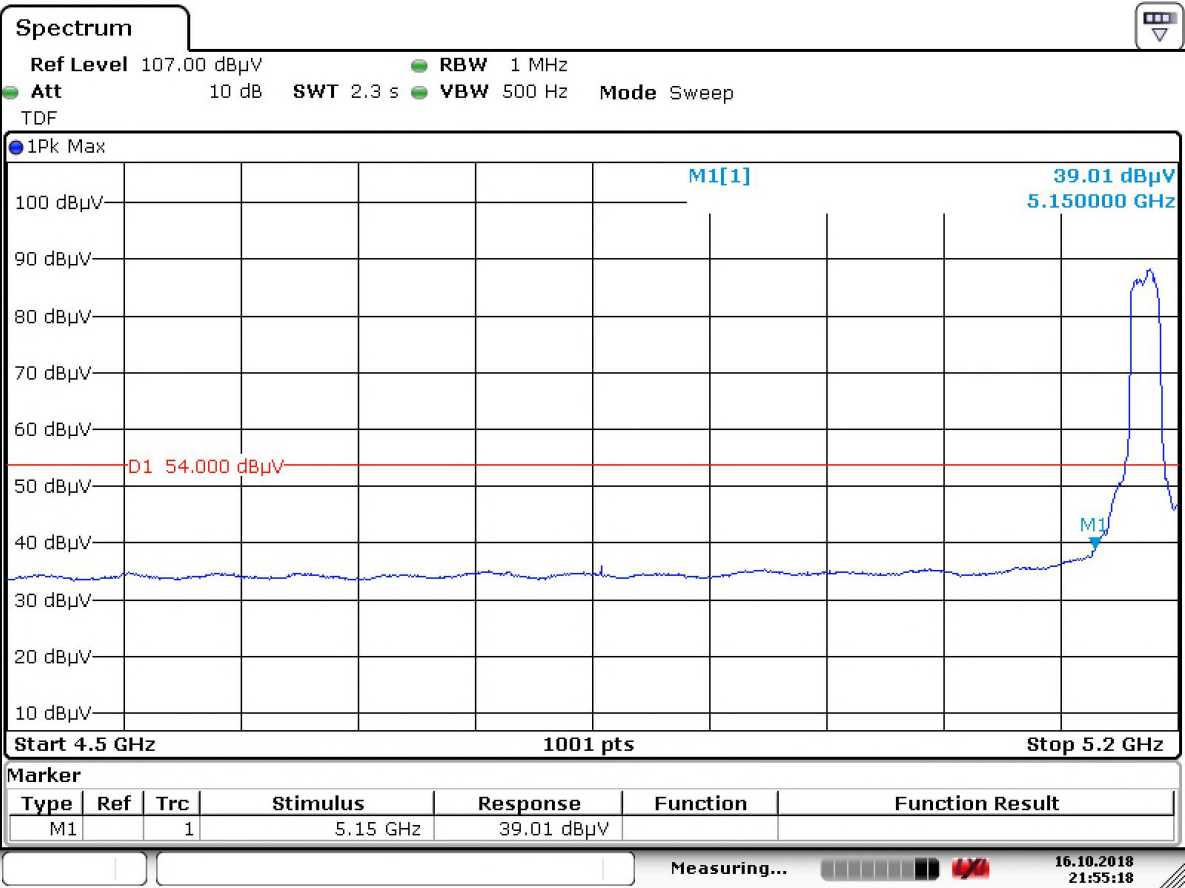


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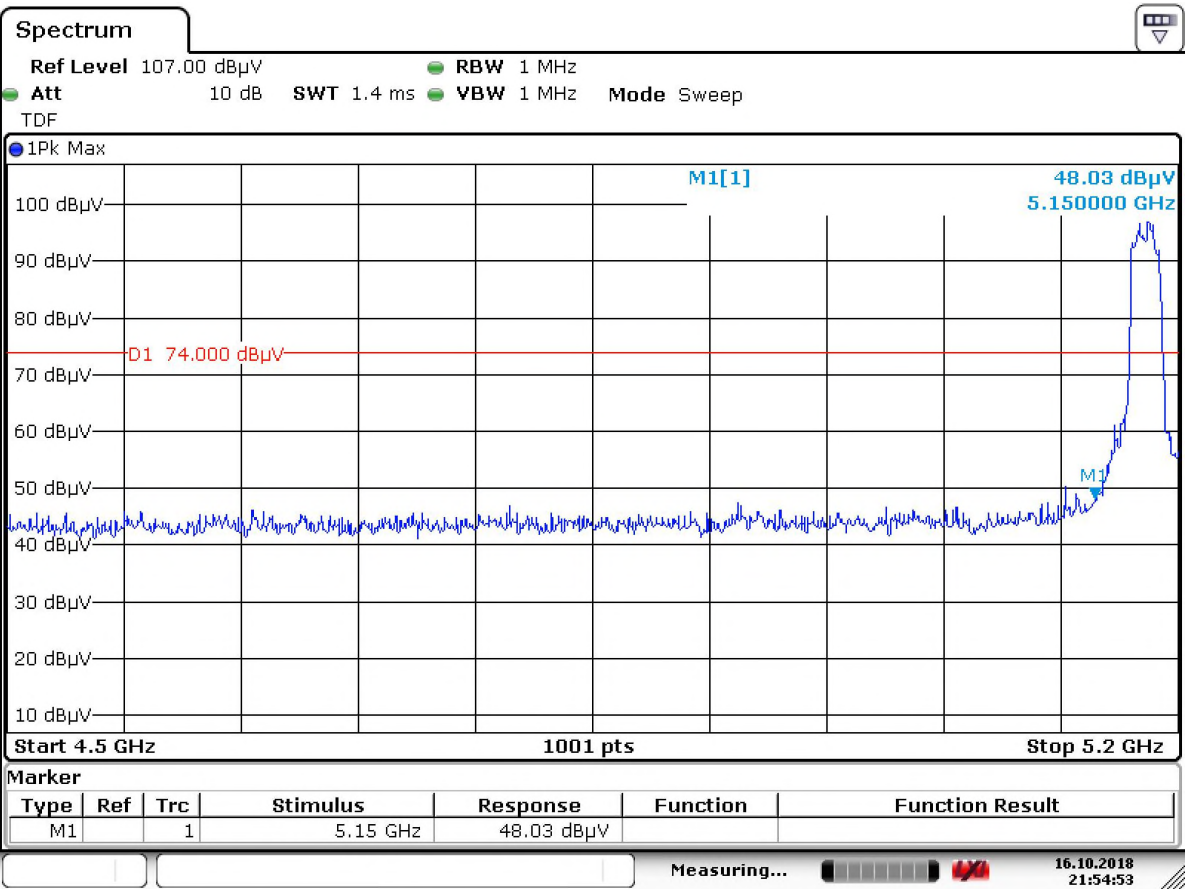


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Low Channel (Vertical)



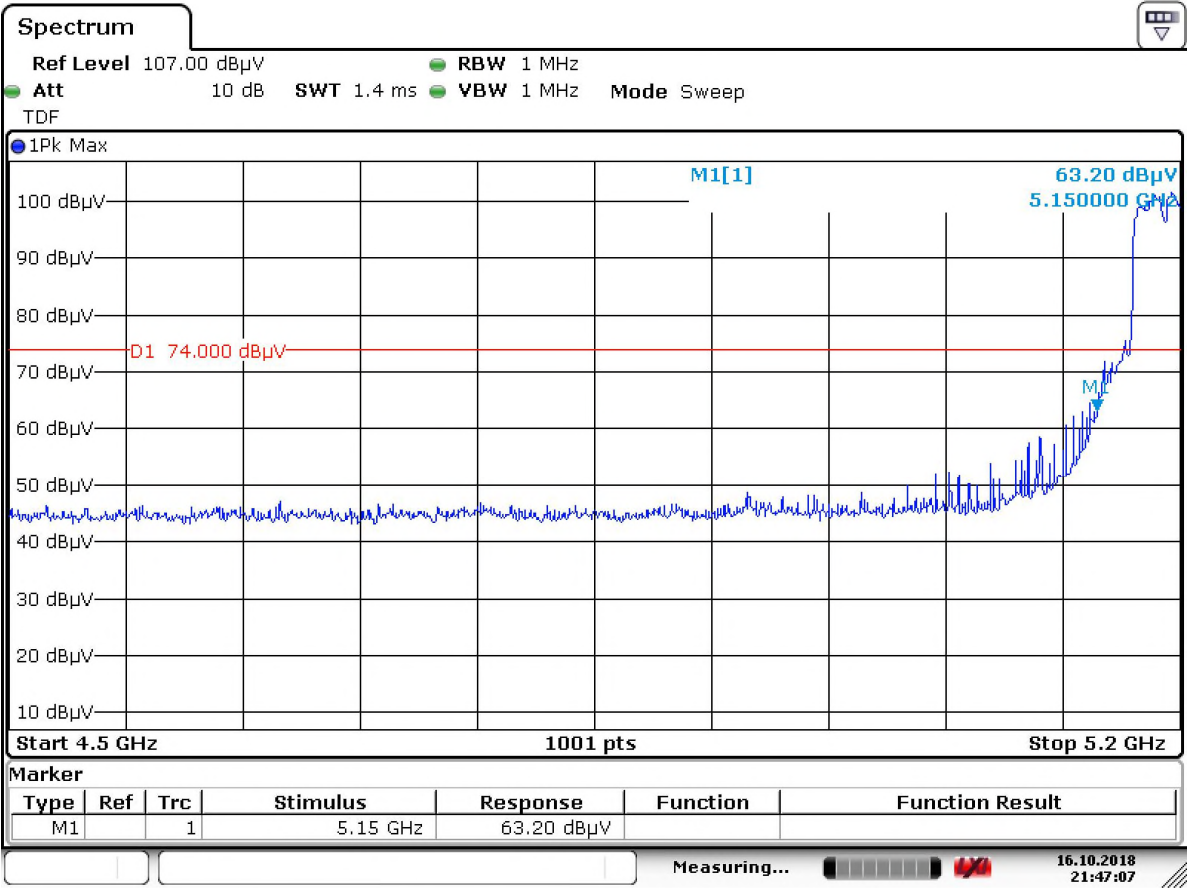
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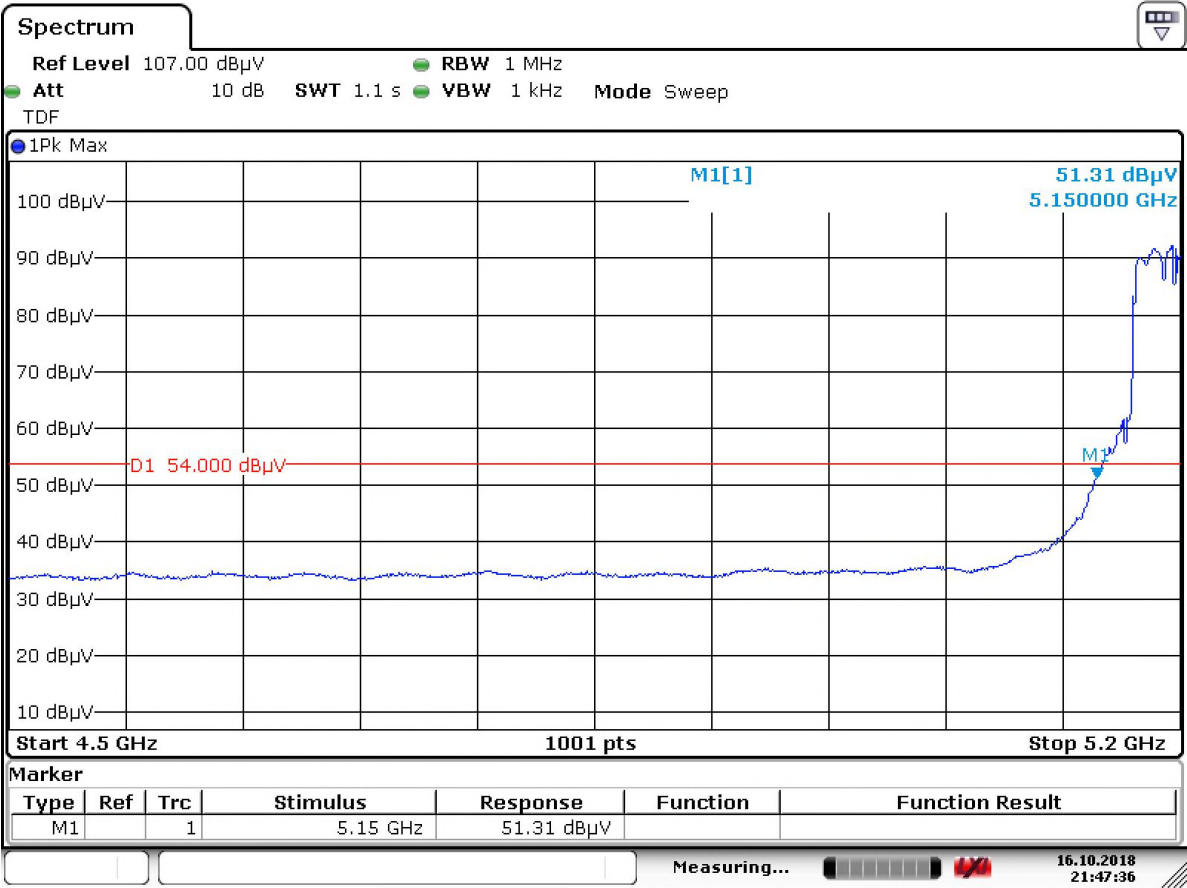
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802.11ac40

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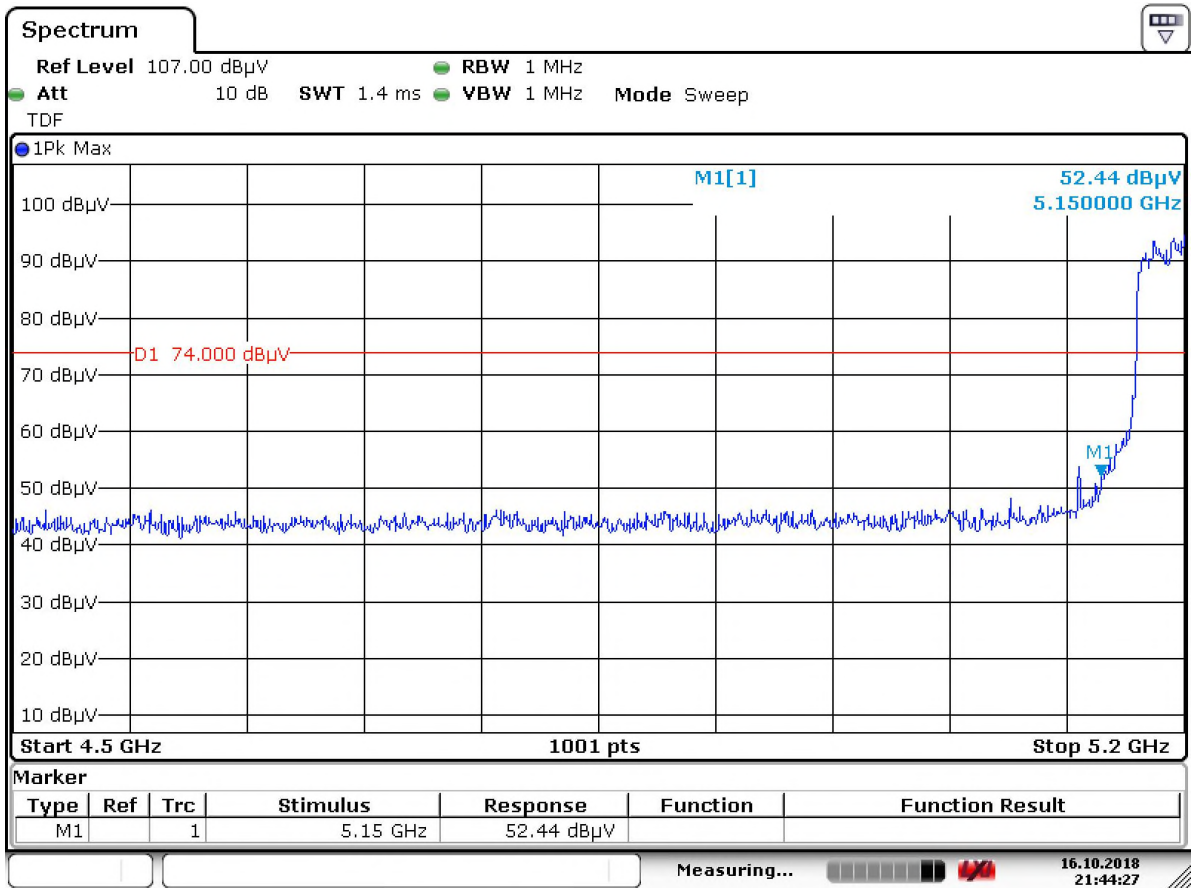


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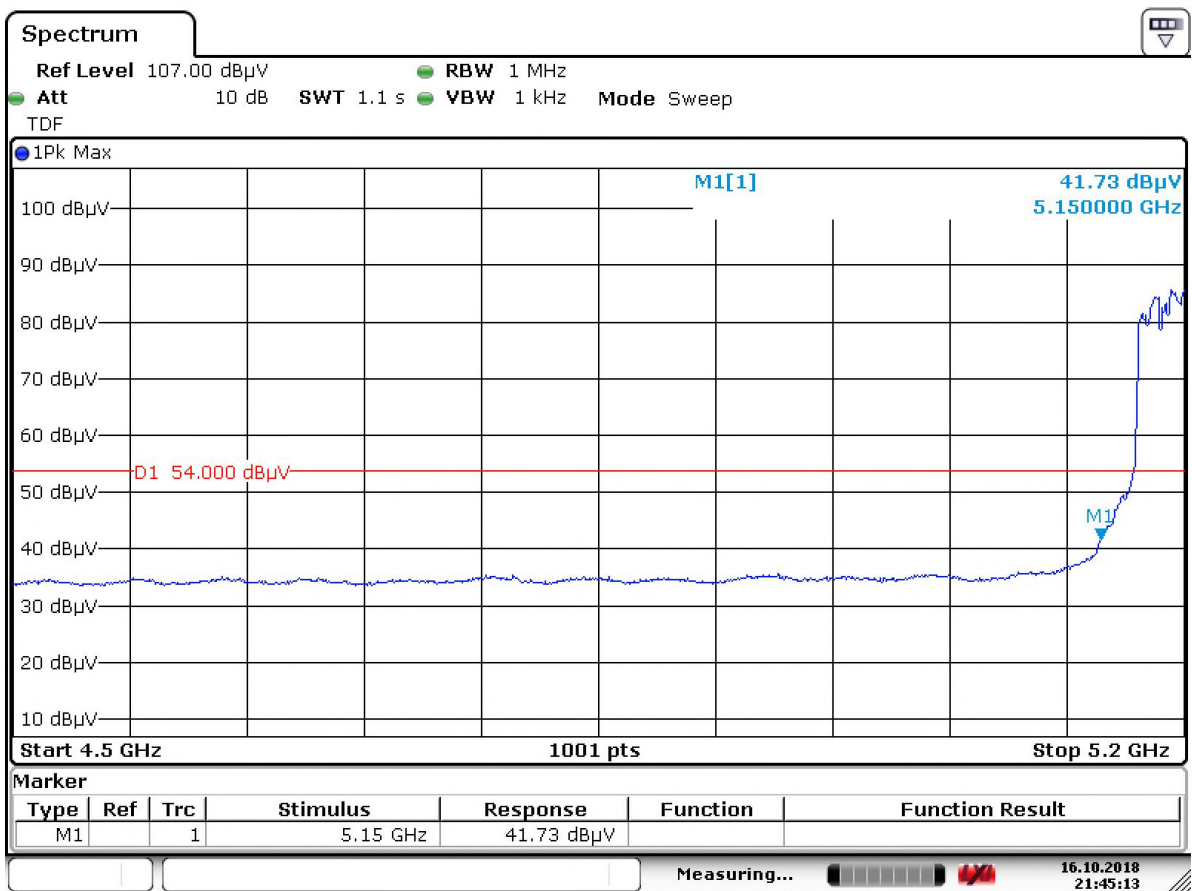


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Low Channel (Vertical)



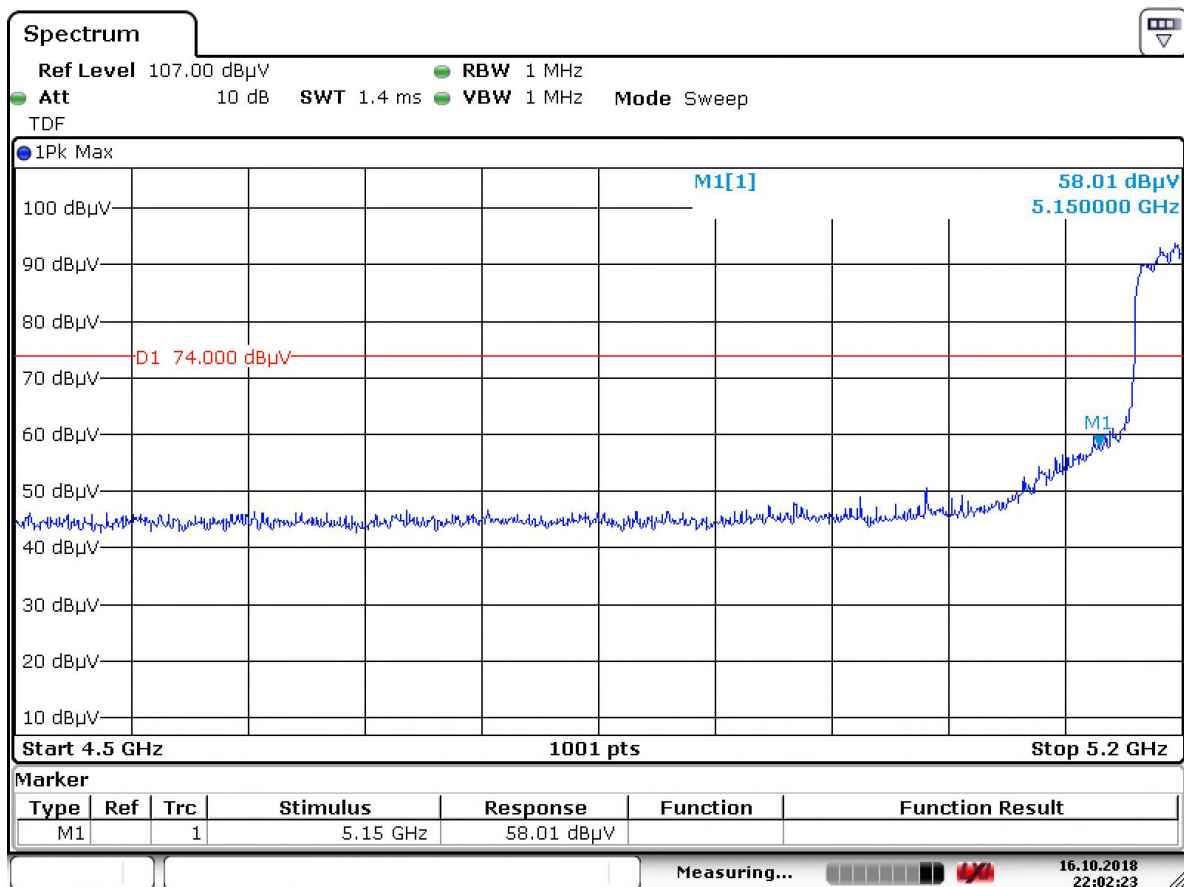
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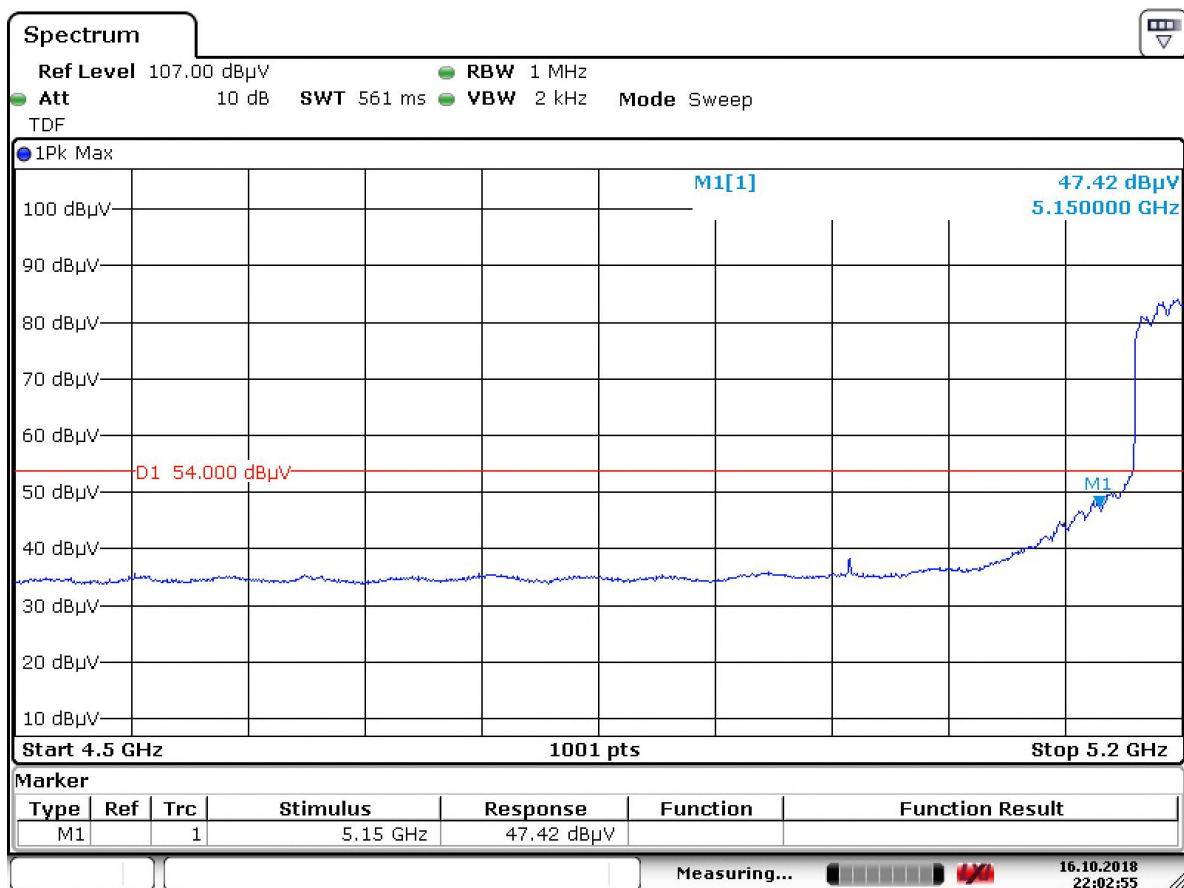
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802.11ac80

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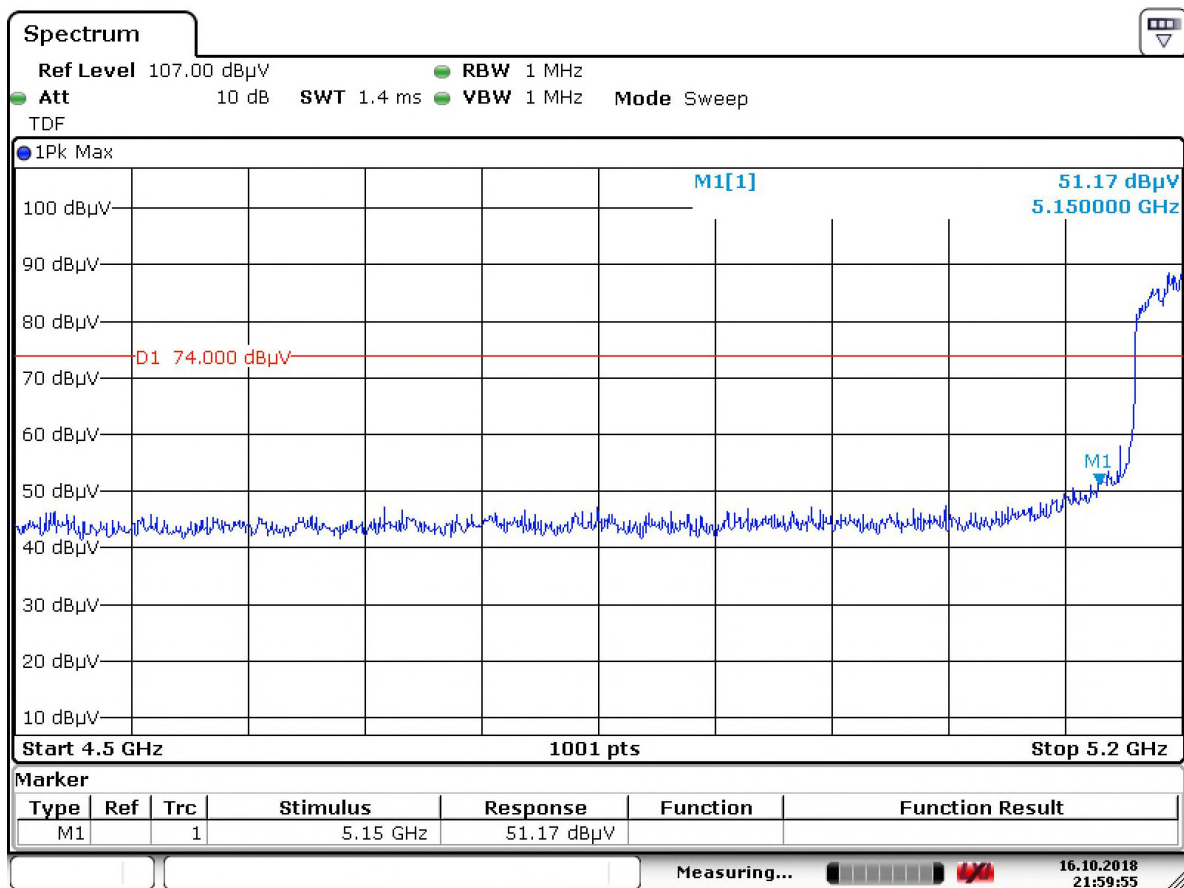


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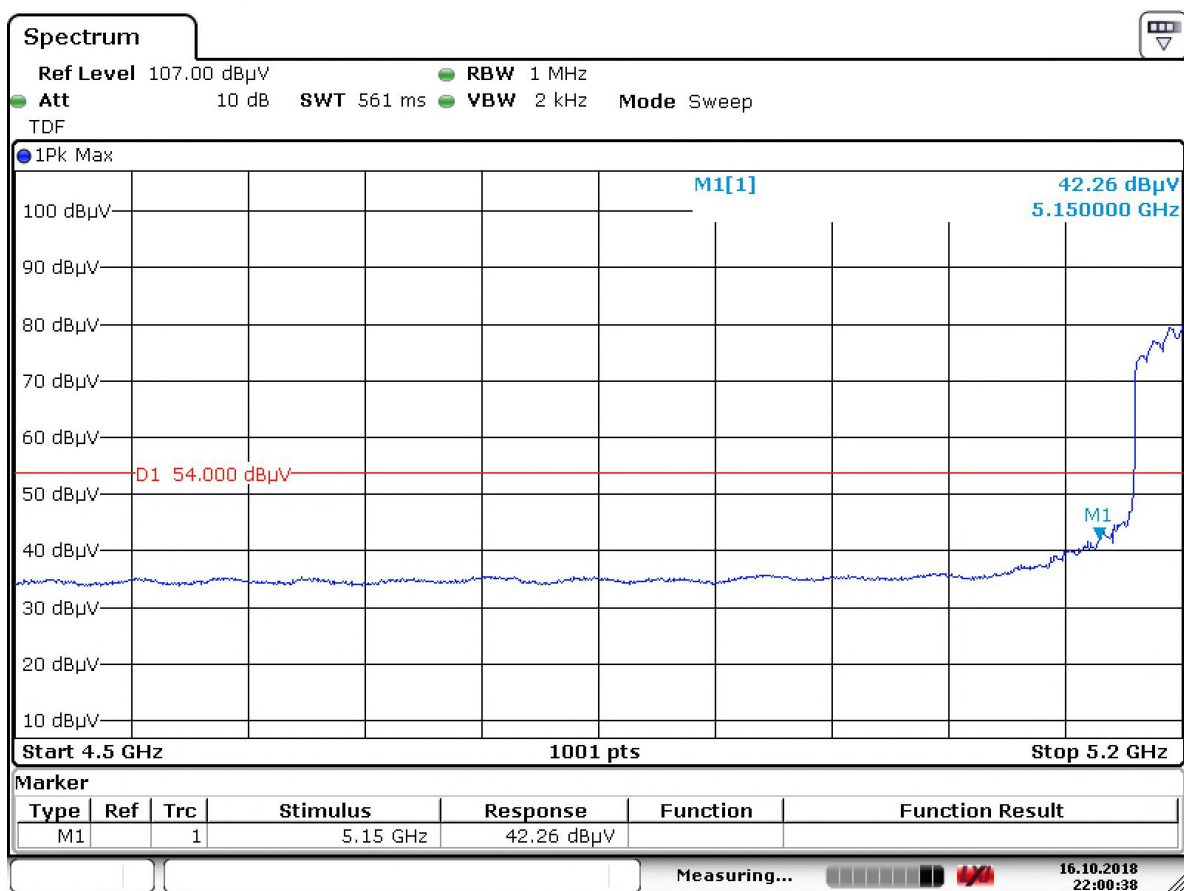


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Low Channel (Vertical)



Date: 16.OCT.2018 21:59:55



Date: 16.OCT.2018 22:00:38

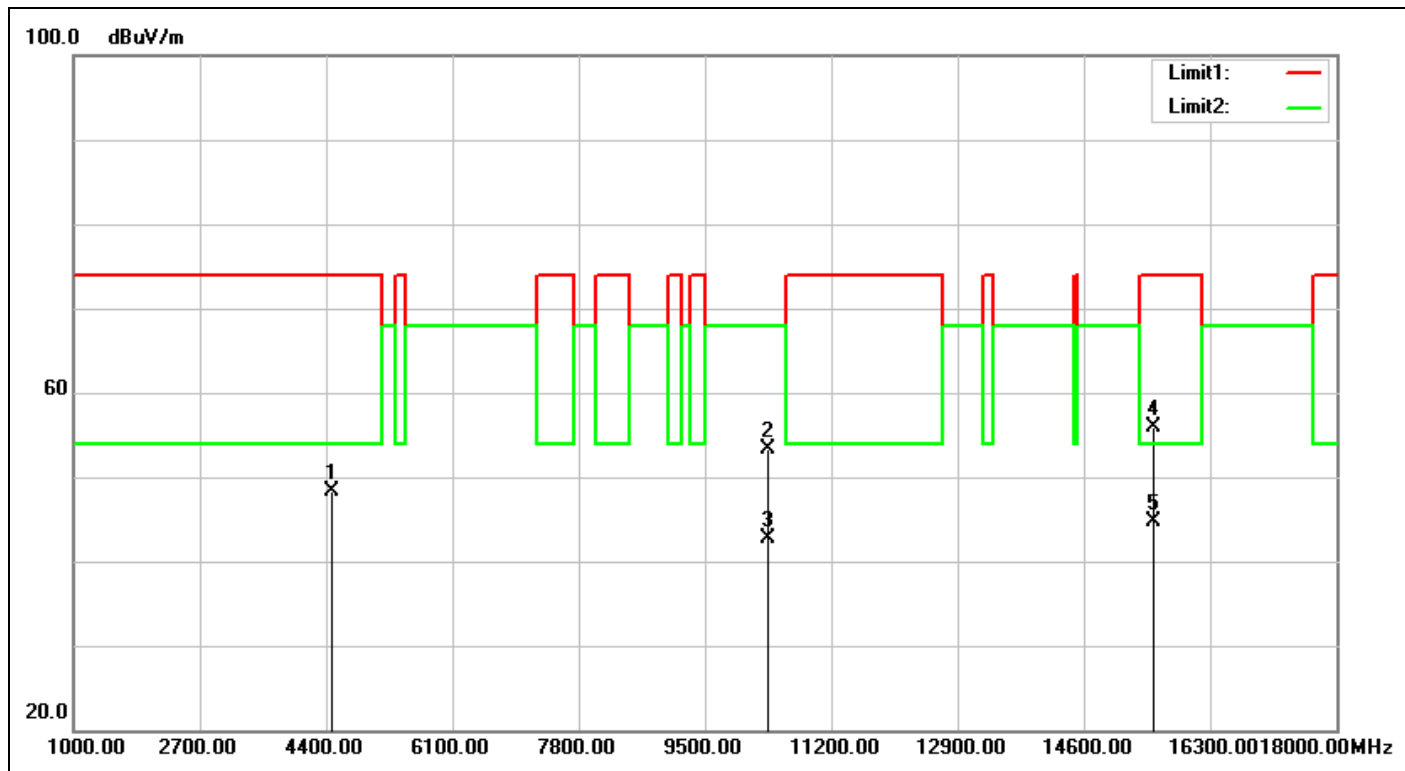
Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd.

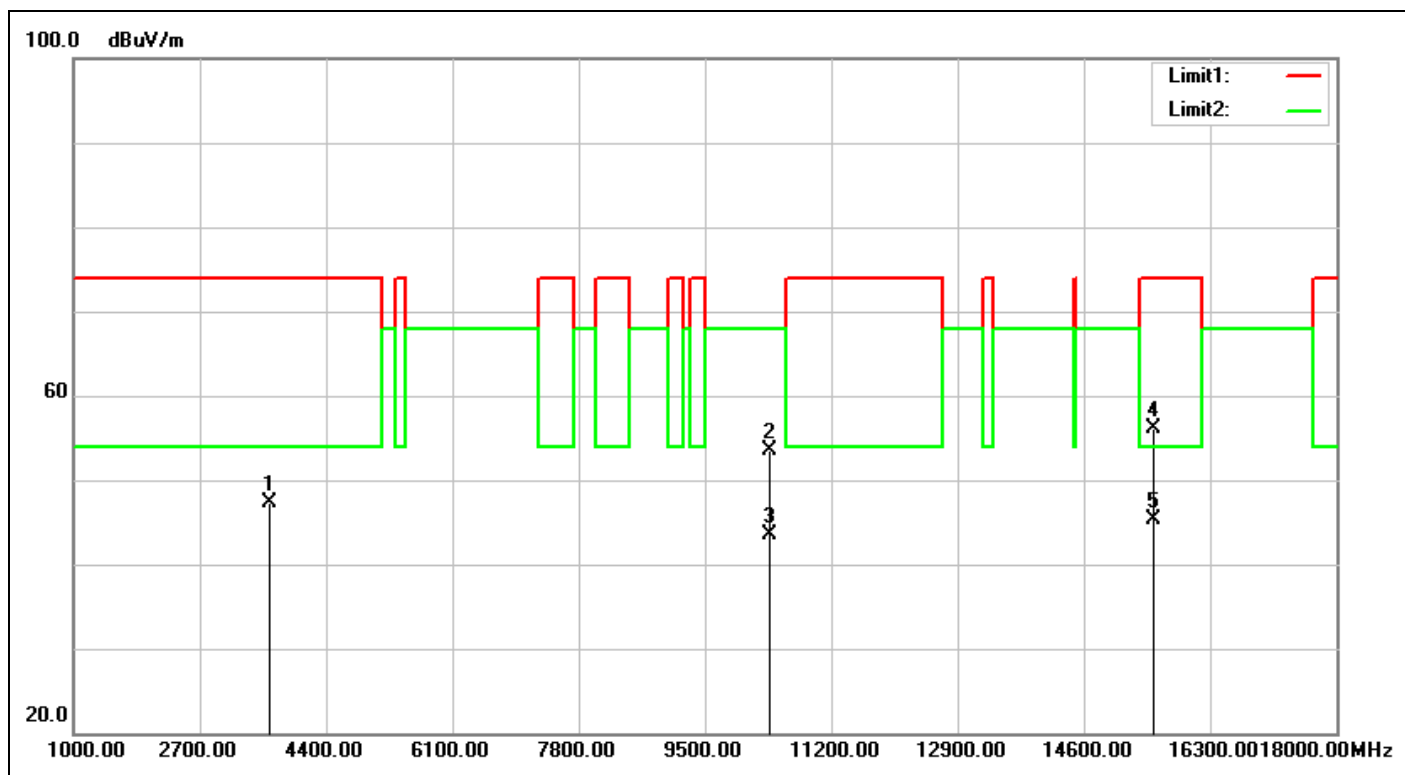
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



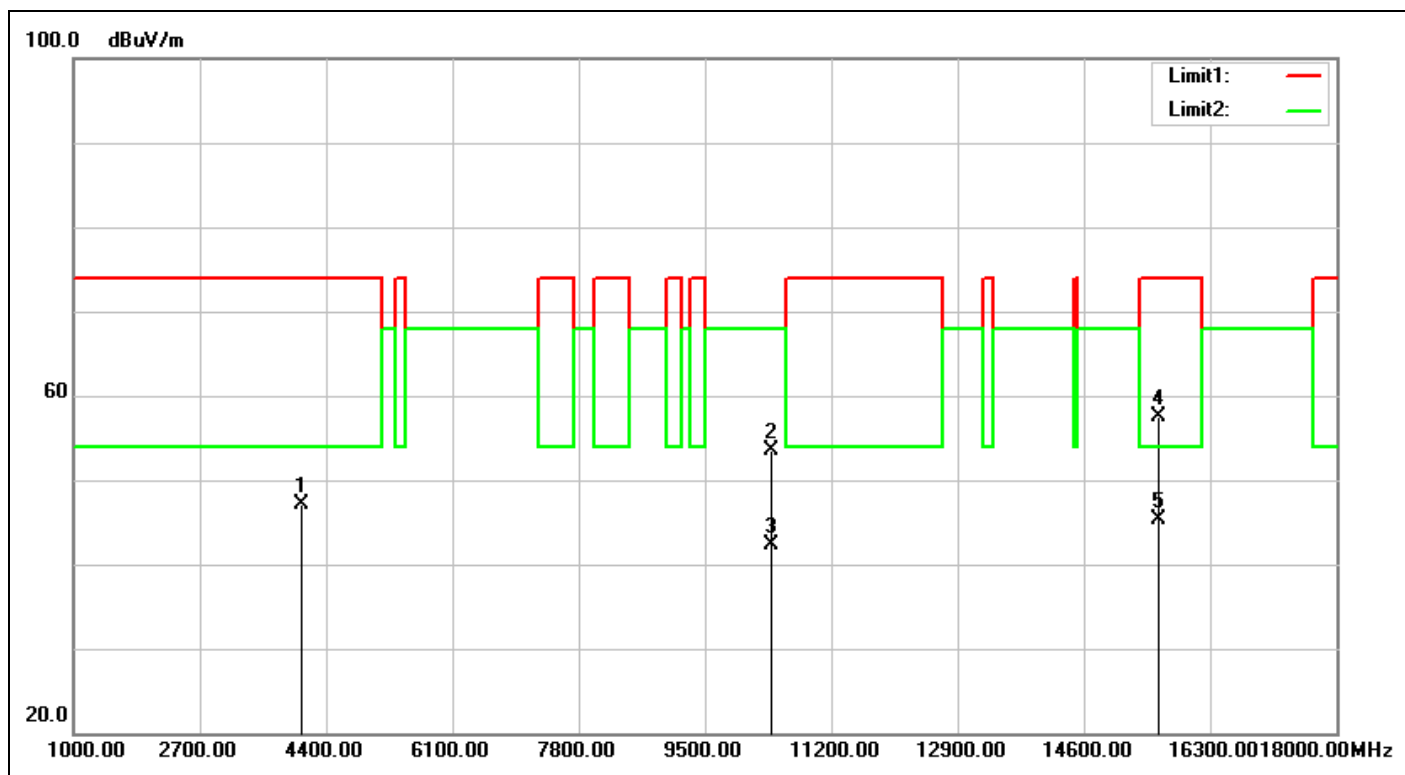
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 19:59:50
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4485.000	-2.20	50.45	48.25	74.00	-25.75	peak	100	2	
2	10360.000	5.63	47.75	53.38	68.00	-14.62	peak	100	264	
3	10360.000	5.63	37.01	42.64	68.00	-25.36	AVG	100	264	
4	15540.000	11.71	44.21	55.92	74.00	-18.08	peak	100	4	
5	15540.000	11.71	33.05	44.76	54.00	-9.24	AVG	100	4	



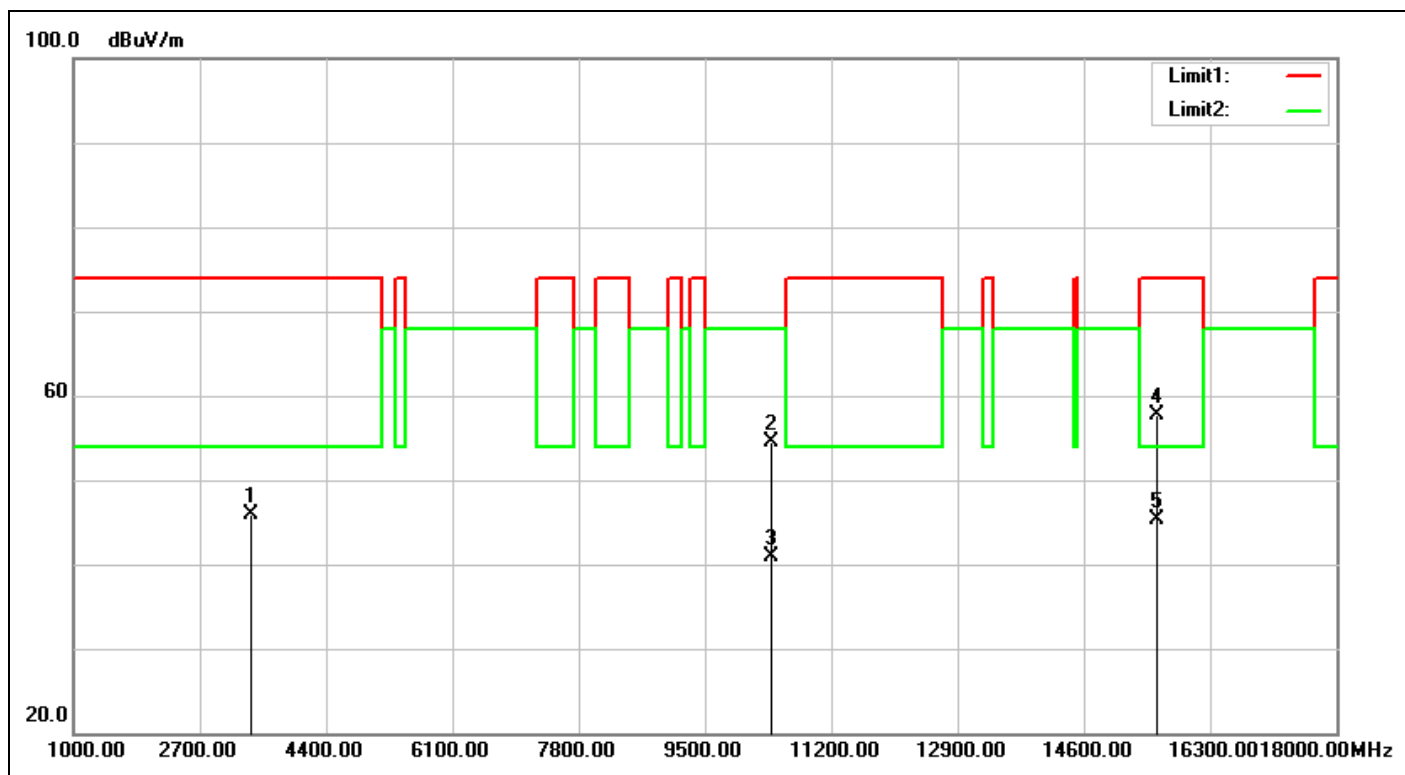
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:00:43
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3635.000	-4.70	52.00	47.30	74.00	-26.70	peak	100	201	
2	10360.000	5.63	47.92	53.55	68.00	-14.45	peak	100	352	
3	10360.000	5.63	37.78	43.41	68.00	-24.59	AVG	100	352	
4	15540.000	11.71	44.43	56.14	74.00	-17.86	peak	100	65	
5	15540.000	11.71	33.55	45.26	54.00	-8.74	AVG	100	65	



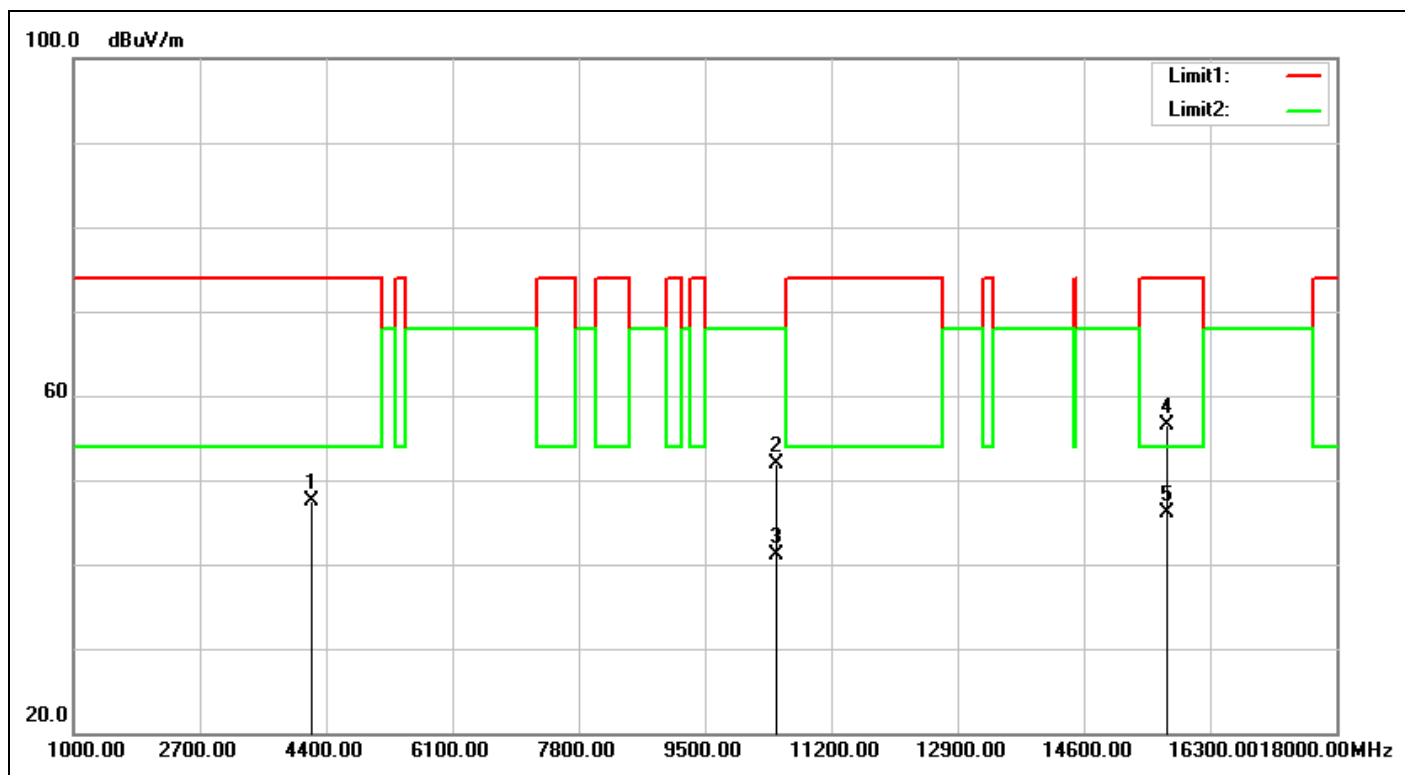
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 20:08:43
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4077.000	-3.64	50.68	47.04	74.00	-26.96	peak	100	114	
2	10400.000	5.54	47.90	53.44	68.00	-14.56	peak	100	88	
3	10400.000	5.54	36.70	42.24	68.00	-25.76	AVG	100	88	
4	15600.000	11.89	45.65	57.54	74.00	-16.46	peak	100	208	
5	15600.000	11.89	33.38	45.27	54.00	-8.73	AVG	100	208	



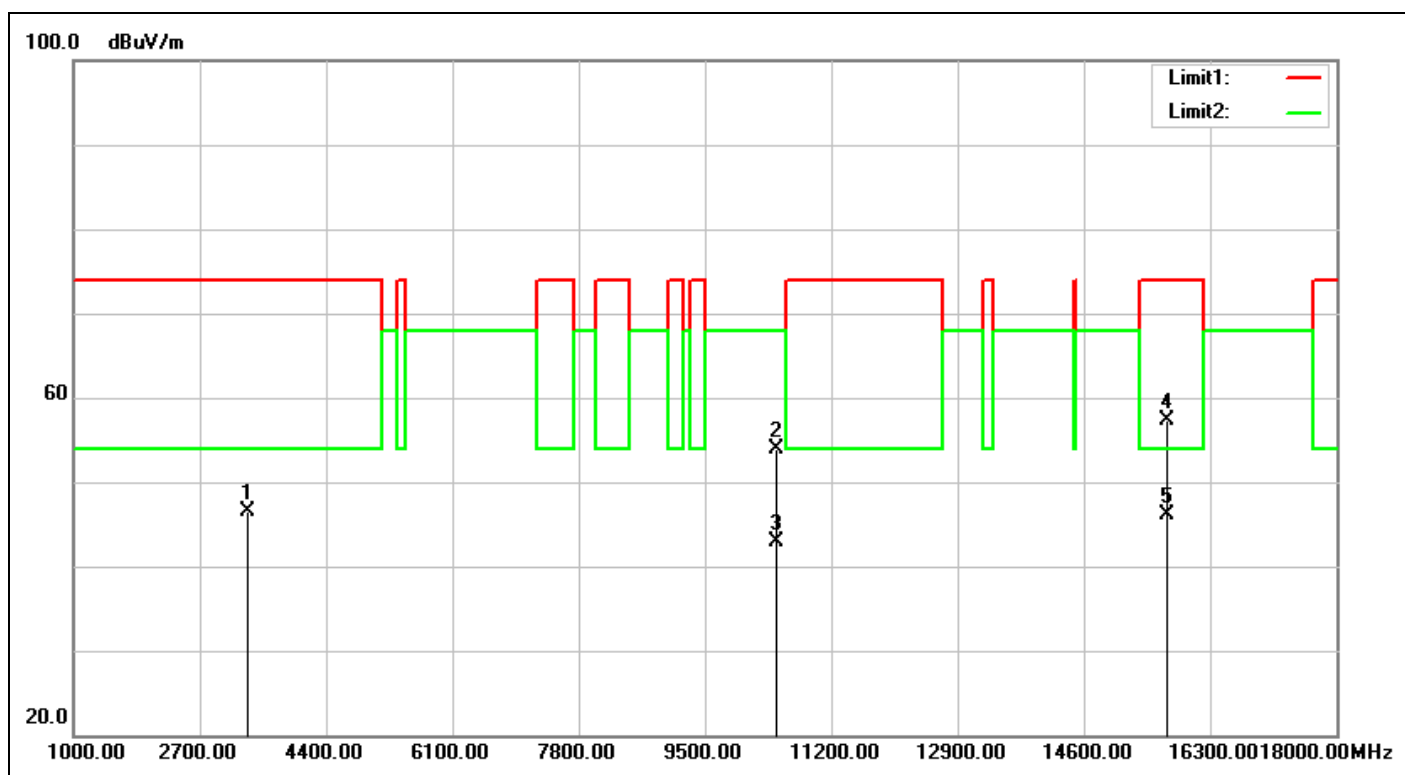
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:09:36
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3397.000	-5.07	50.89	45.82	74.00	-28.18	peak	100	211	
2	10400.000	5.54	48.89	54.43	68.00	-13.57	peak	100	108	
3	10400.000	5.54	35.46	41.00	68.00	-27.00	AVG	100	108	
4	15600.000	11.89	45.90	57.79	74.00	-16.21	peak	100	234	
5	15600.000	11.89	33.37	45.26	54.00	-8.74	AVG	100	234	



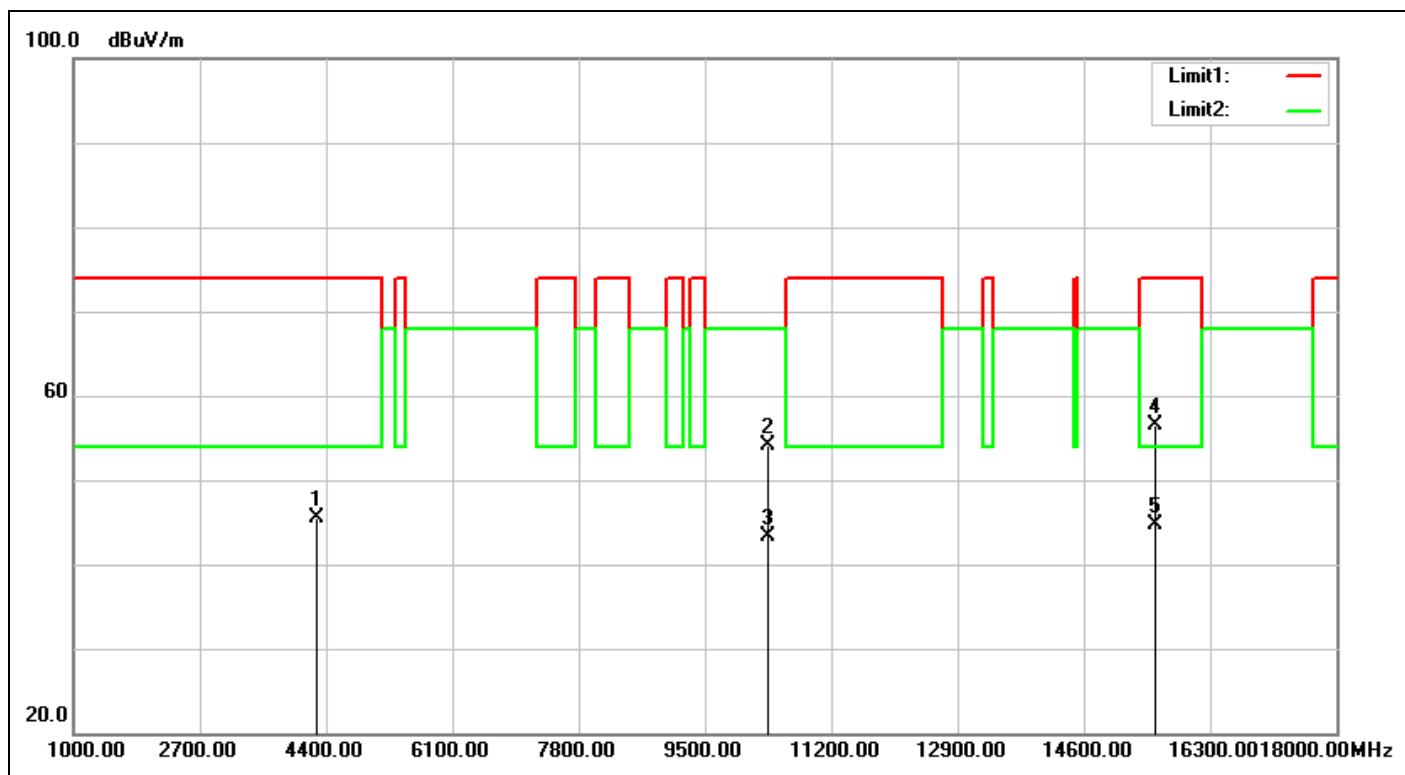
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Test item:	Radiation Emission	Test Time:	2018/10/16 20:17:06
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4196.000	-3.23	50.66	47.43	74.00	-26.57	peak	100	47	
2	10480.000	5.38	46.55	51.93	68.00	-16.07	peak	100	10	
3	10480.000	5.38	35.81	41.19	68.00	-26.81	AVG	100	10	
4	15720.000	12.24	44.27	56.51	74.00	-17.49	peak	100	293	
5	15720.000	12.24	33.95	46.19	54.00	-7.81	AVG	100	293	



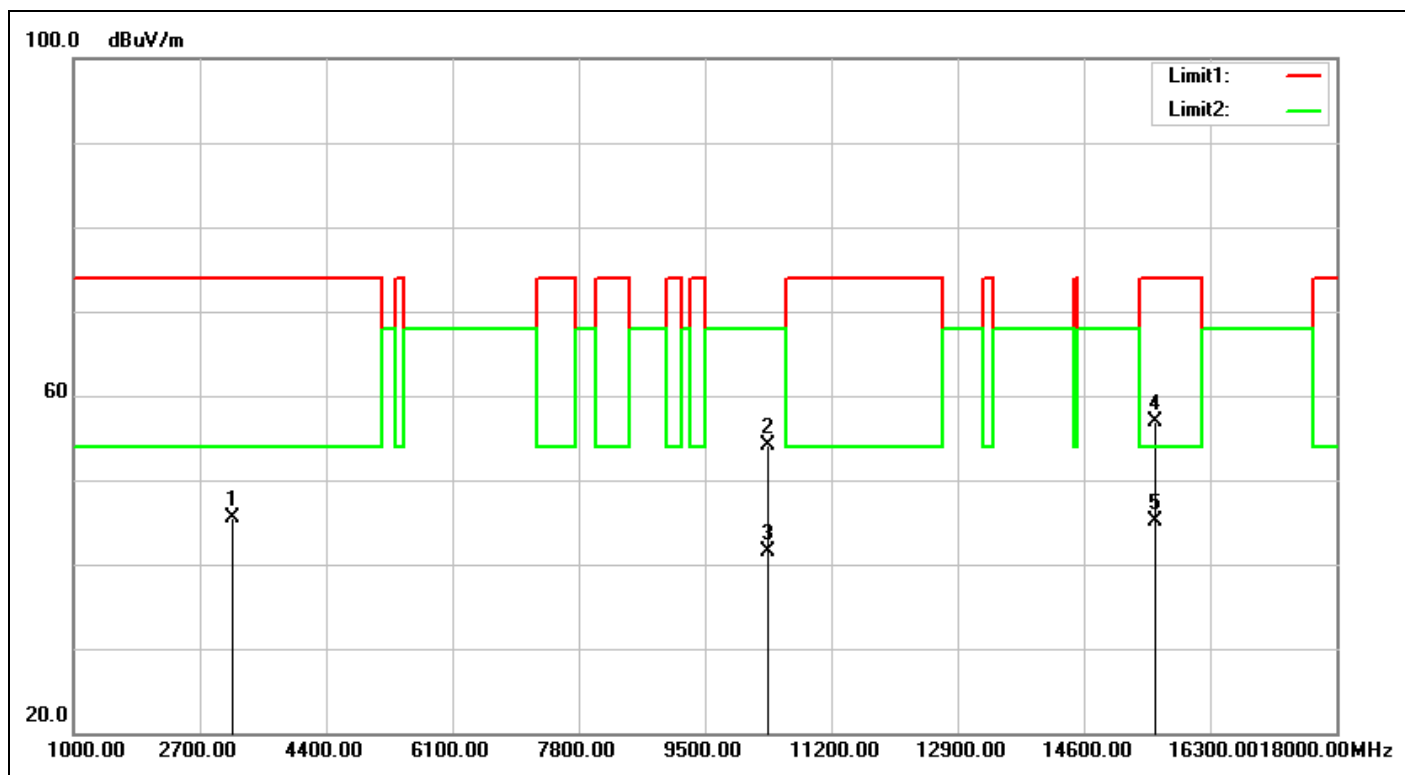
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:17:59
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3346.000	-5.11	51.58	46.47	74.00	-27.53	peak	100	56	
2	10480.000	5.38	48.62	54.00	68.00	-14.00	peak	100	108	
3	10480.000	5.38	37.49	42.87	68.00	-25.13	AVG	100	108	
4	15720.000	12.24	45.07	57.31	74.00	-16.69	peak	100	360	
5	15720.000	12.24	33.91	46.15	54.00	-7.85	AVG	100	360	



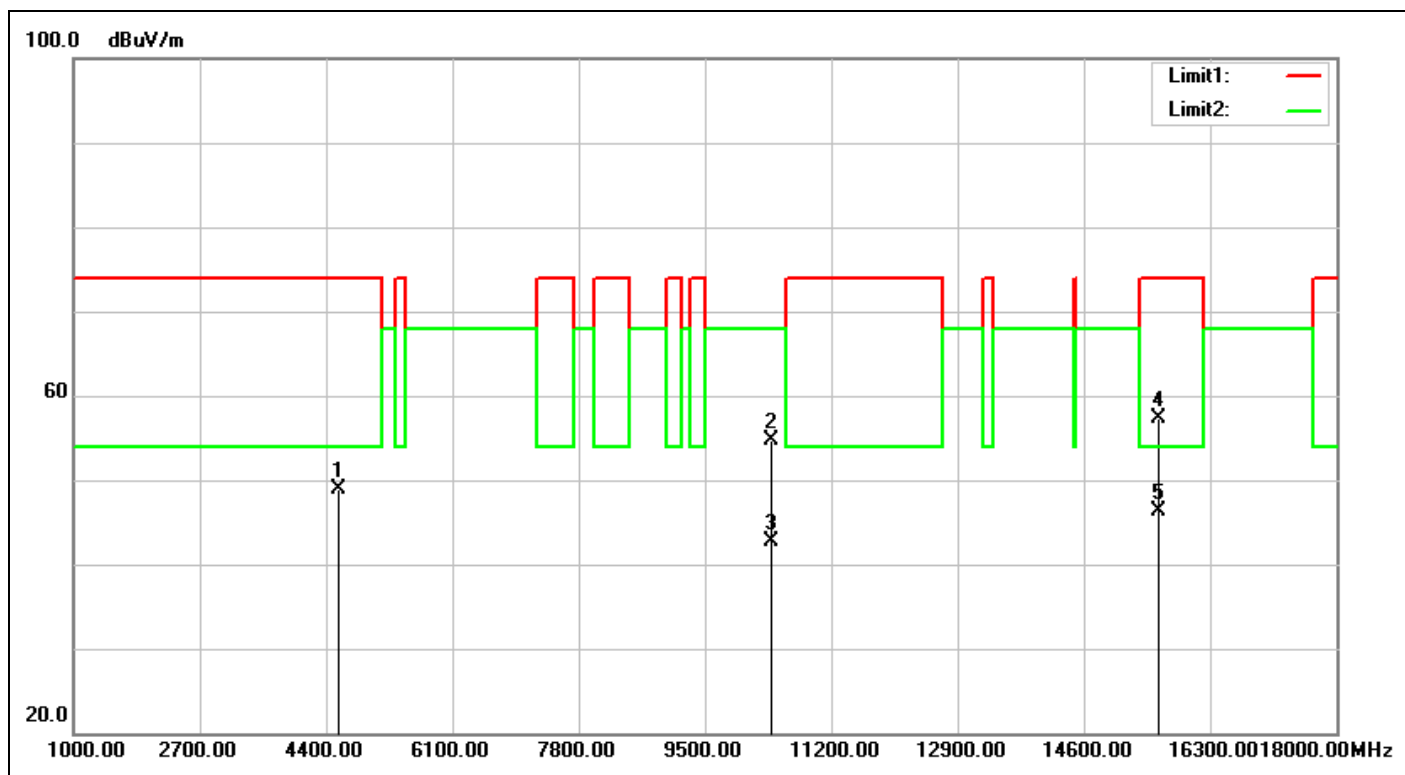
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Test item:	Radiation Emission	Test Time:	2018/10/16 20:27:21
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4281.000	-2.92	48.51	45.59	74.00	-28.41	peak	100	107	
2	10360.000	5.63	48.51	54.14	68.00	-13.86	peak	100	51	
3	10360.000	5.63	37.63	43.26	68.00	-24.74	AVG	100	51	
4	15540.000	11.71	44.70	56.41	74.00	-17.59	peak	100	335	
5	15540.000	11.71	32.98	44.69	54.00	-9.31	AVG	100	335	



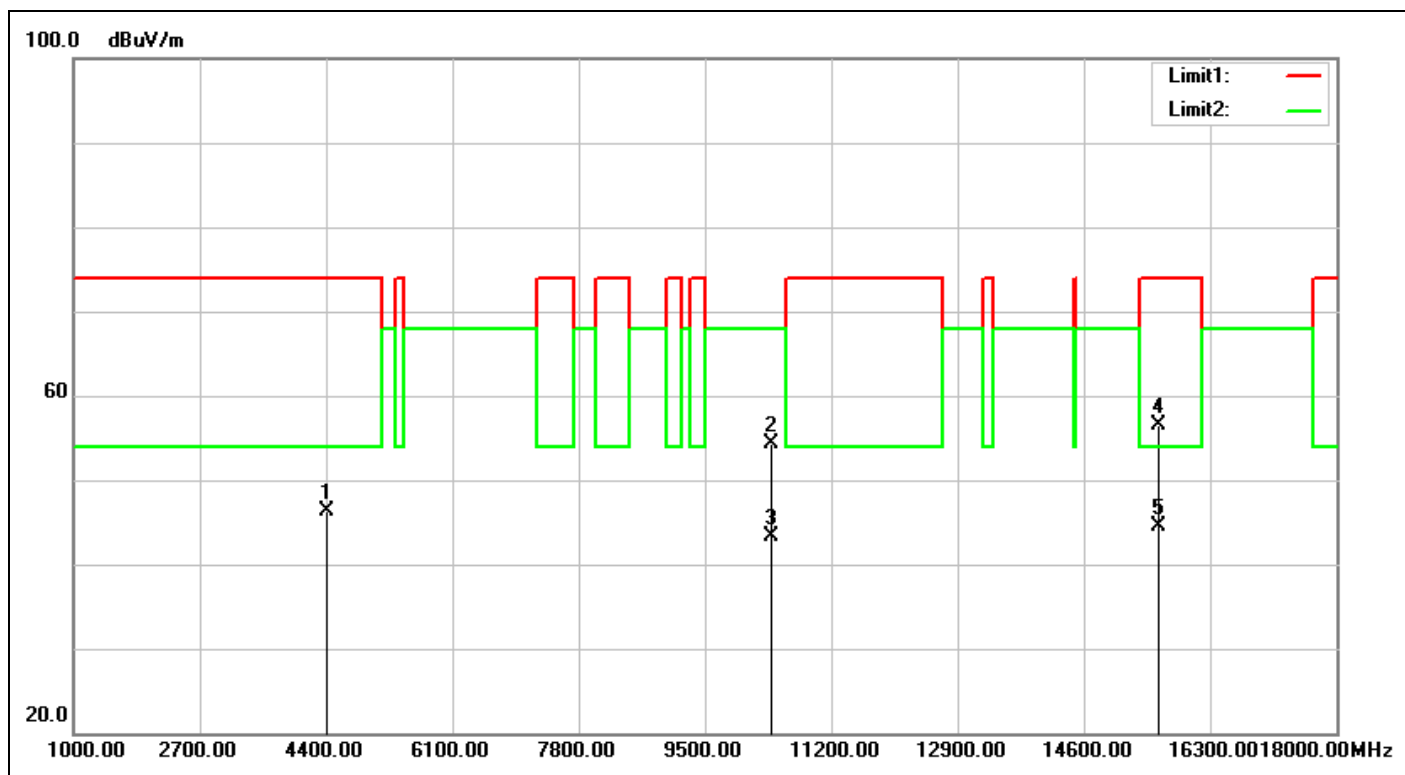
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:28:13
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3142.000	-5.28	50.69	45.41	74.00	-28.59	peak	100	309	
2	10360.000	5.63	48.50	54.13	68.00	-13.87	peak	100	220	
3	10360.000	5.63	35.80	41.43	68.00	-26.57	AVG	100	220	
4	15540.000	11.71	45.24	56.95	74.00	-17.05	peak	100	203	
5	15540.000	11.71	33.31	45.02	54.00	-8.98	AVG	100	203	



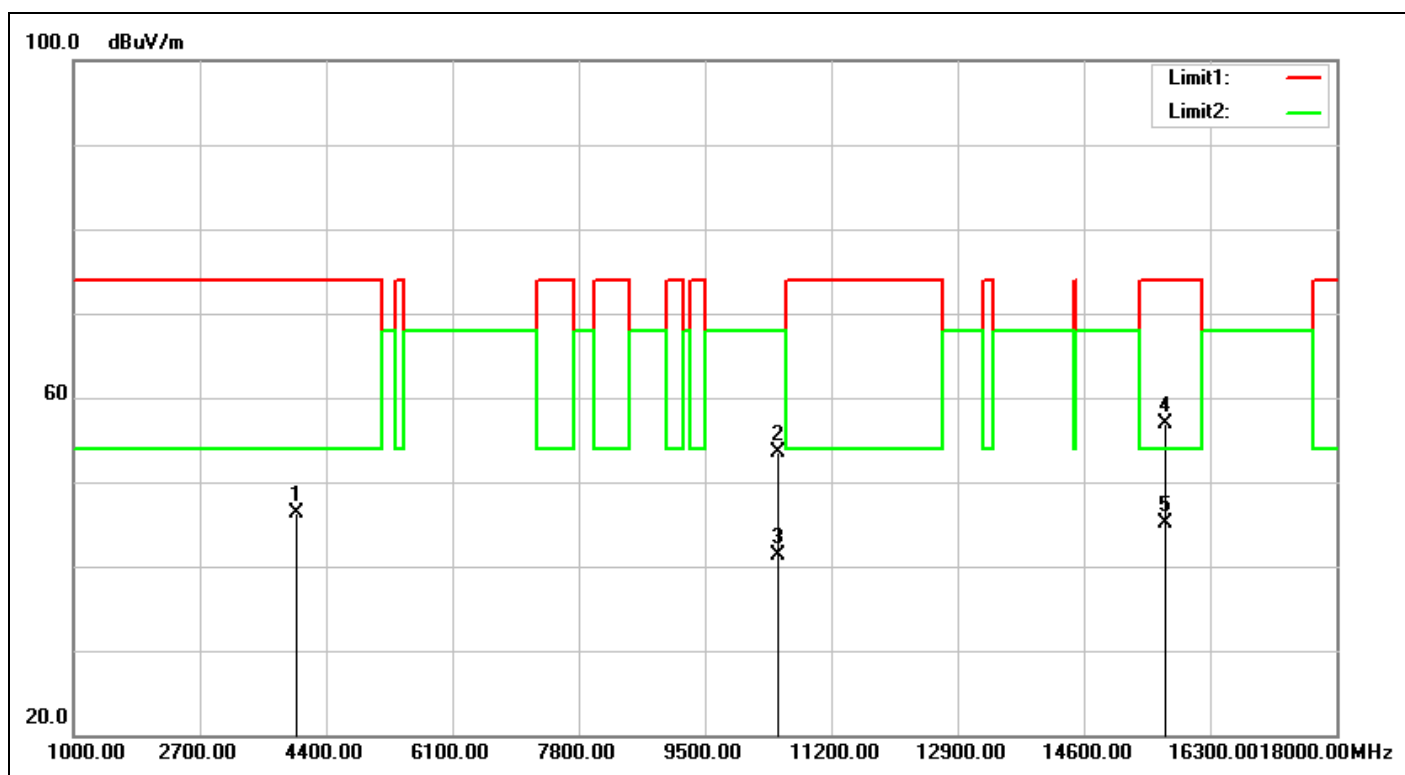
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Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4570.000	-2.04	50.86	48.82	74.00	-25.18	peak	100	1	
2	10400.000	5.54	49.13	54.67	68.00	-13.33	peak	100	169	
3	10400.000	5.54	37.16	42.70	68.00	-25.30	AVG	100	169	
4	15600.000	11.89	45.39	57.28	74.00	-16.72	peak	100	104	
5	15600.000	11.89	34.42	46.31	54.00	-7.69	AVG	100	104	



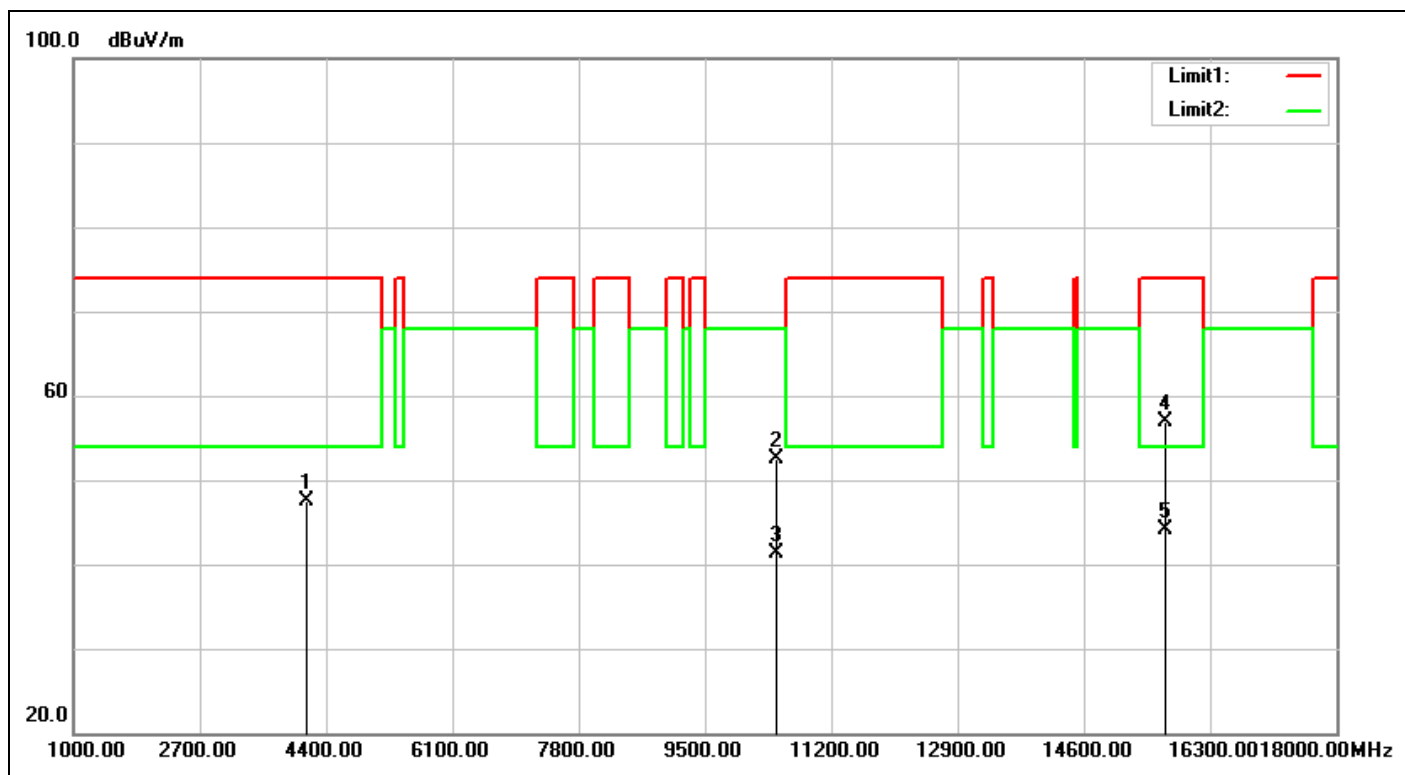
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Test item:	Radiation Emission	Test Time:	2018/10/16 20:34:15
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4417.000	-2.44	48.79	46.35	74.00	-27.65	peak	100	266	
2	10400.000	5.54	48.86	54.40	68.00	-13.60	peak	100	239	
3	10400.000	5.54	37.67	43.21	68.00	-24.79	AVG	100	239	
4	15600.000	11.89	44.66	56.55	74.00	-17.45	peak	100	27	
5	15600.000	11.89	32.57	44.46	54.00	-9.54	AVG	100	27	



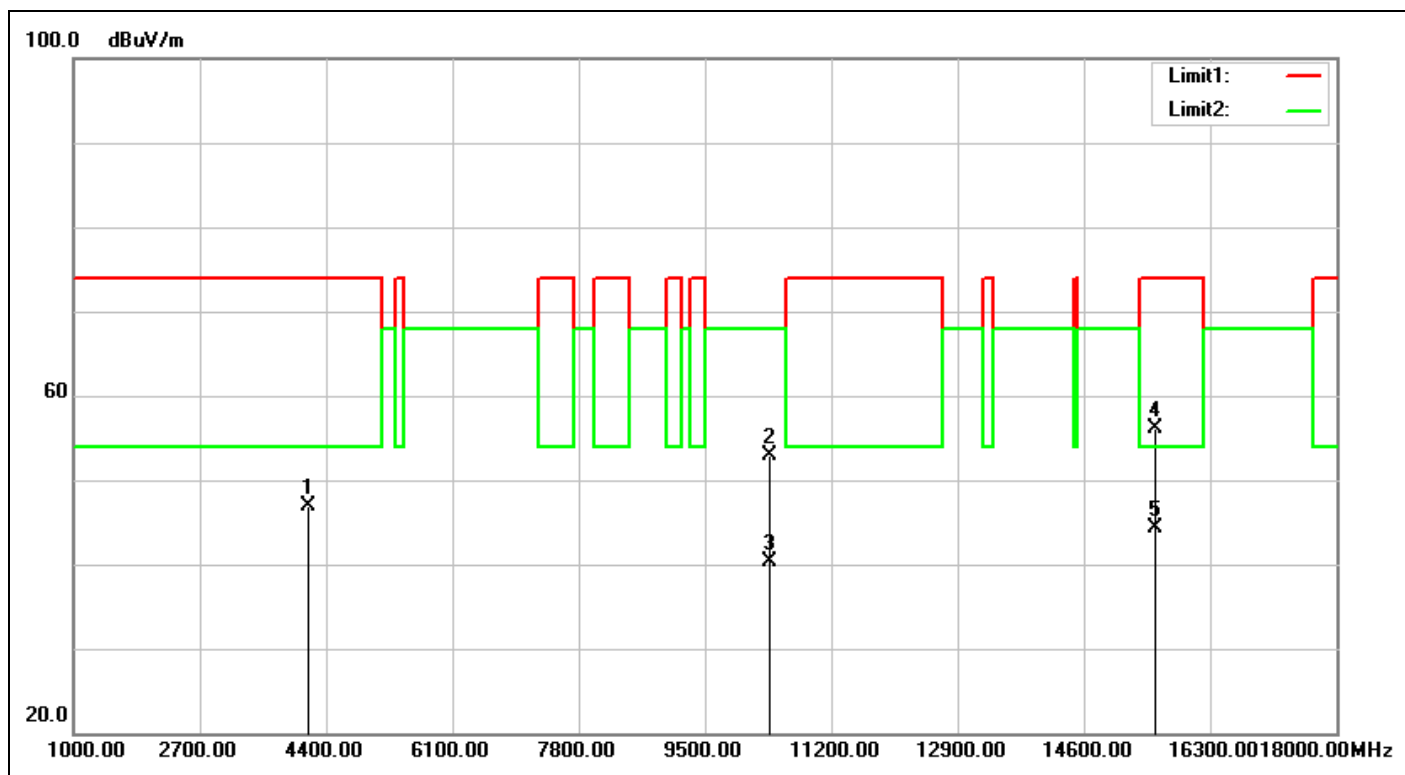
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 20:39:04
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3992.000	-3.93	50.26	46.33	74.00	-27.67	peak	100	360	
2	10480.000	5.38	48.14	53.52	68.00	-14.48	peak	100	319	
3	10480.000	5.38	36.01	41.39	68.00	-26.61	AVG	100	319	
4	15720.000	12.24	44.61	56.85	74.00	-17.15	peak	100	353	
5	15720.000	12.24	32.96	45.20	54.00	-8.80	AVG	100	353	



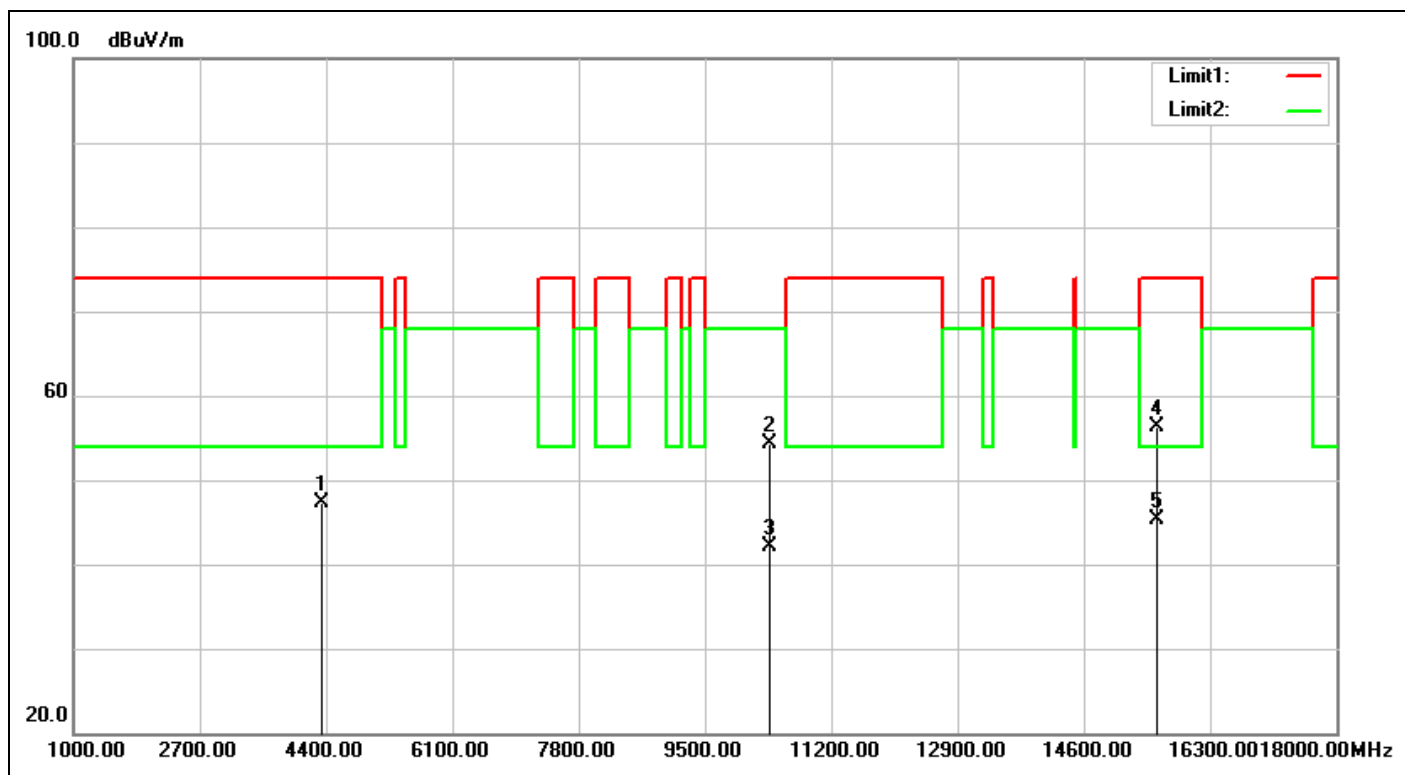
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Test item:	Radiation Emission	Test Time:	2018/10/16 20:39:56
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4145.000	-3.40	50.95	47.55	74.00	-26.45	peak	100	55	
2	10480.000	5.38	47.19	52.57	68.00	-15.43	peak	100	347	
3	10480.000	5.38	35.96	41.34	68.00	-26.66	AVG	100	347	
4	15720.000	12.24	44.68	56.92	74.00	-17.08	peak	100	0	
5	15720.000	12.24	31.84	44.08	54.00	-9.92	AVG	100	0	



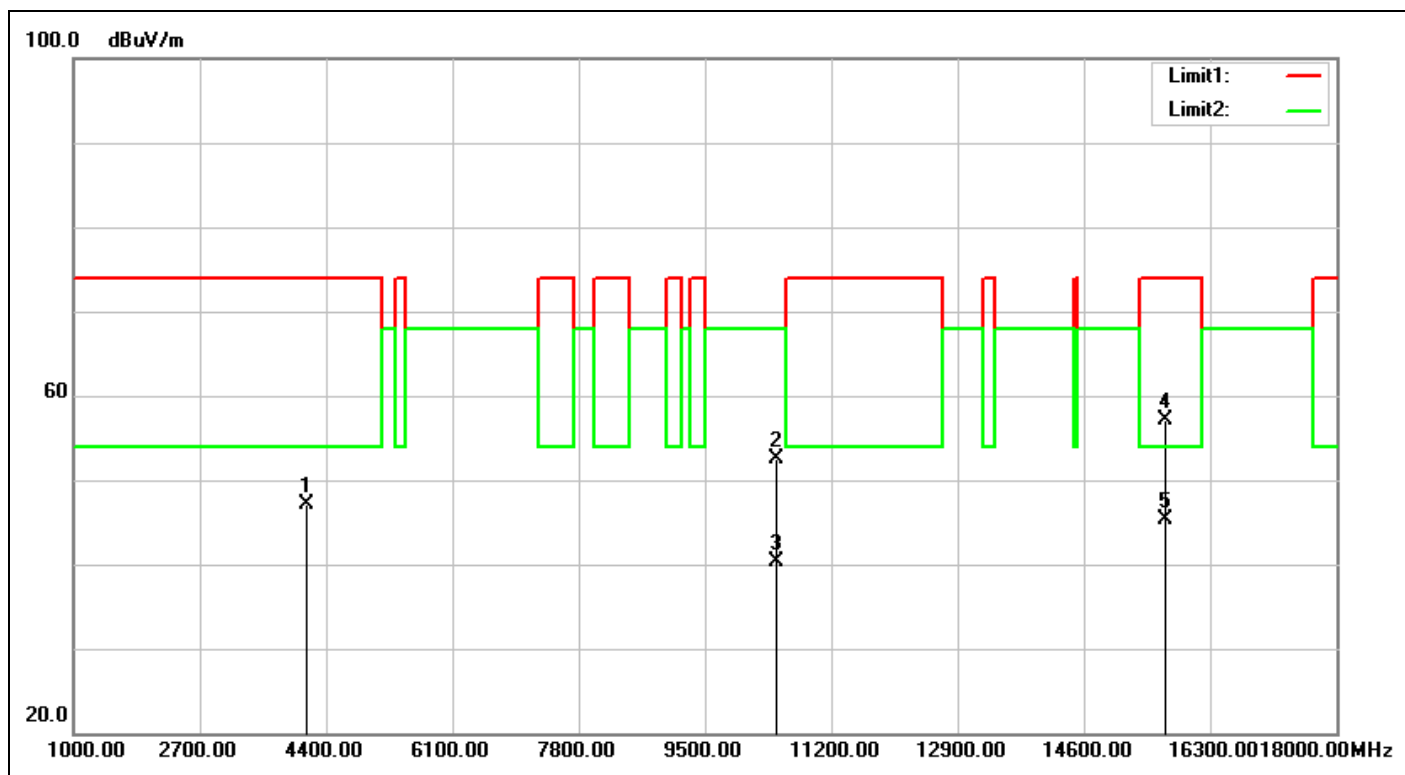
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 20:43:55
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5190		
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	-3.34	50.20	46.86	74.00	-27.14	peak	100	147	
2	10380.000	5.58	47.28	52.86	68.00	-15.14	peak	100	17	
3	10380.000	5.58	34.81	40.39	68.00	-27.61	AVG	100	17	
4	15570.000	11.81	44.34	56.15	74.00	-17.85	peak	100	243	
5	15570.000	11.81	32.47	44.28	54.00	-9.72	AVG	100	243	



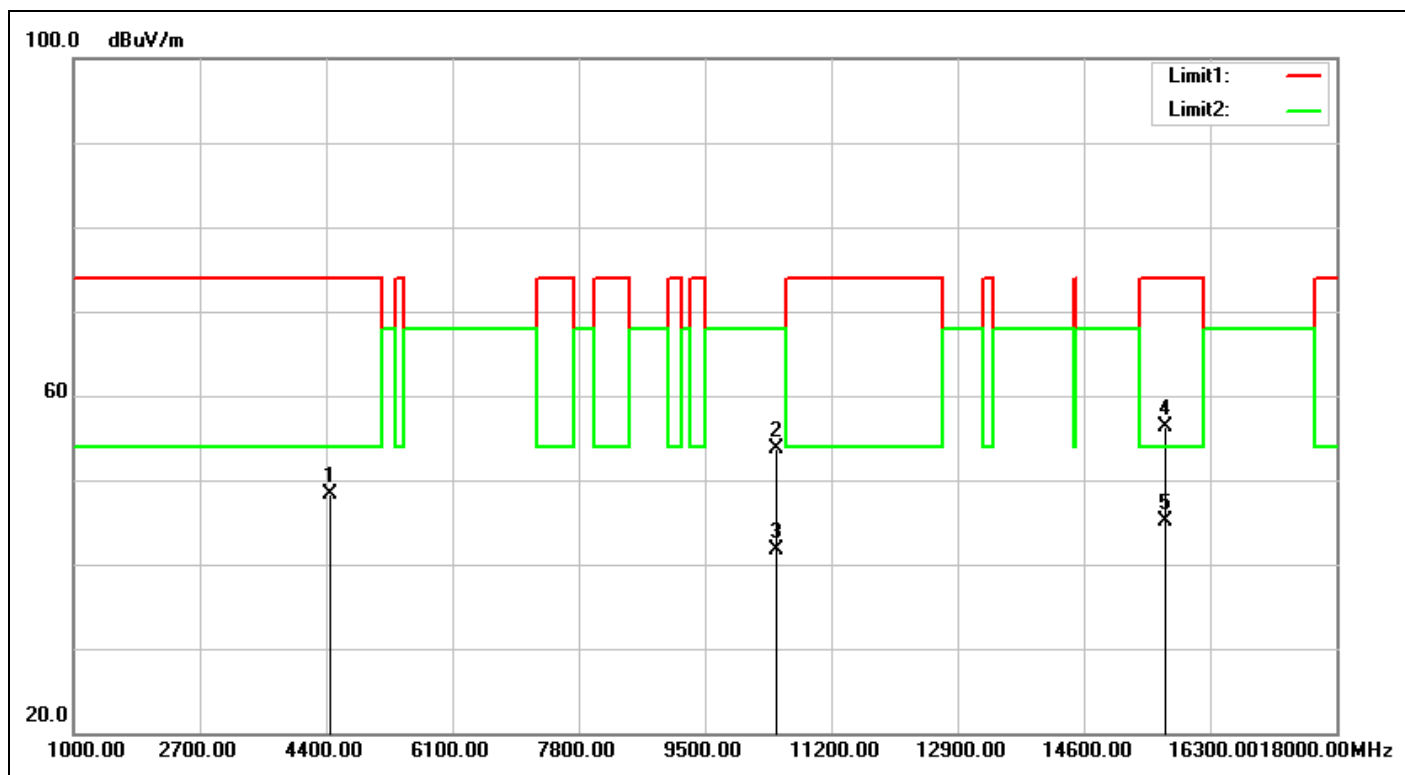
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:44:47
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4332.000	-2.74	49.98	47.24	74.00	-26.76	peak	100	92	
2	10380.000	5.58	48.72	54.30	68.00	-13.70	peak	100	194	
3	10380.000	5.58	36.60	42.18	68.00	-25.82	AVG	100	194	
4	15570.000	11.81	44.48	56.29	74.00	-17.71	peak	100	270	
5	15570.000	11.81	33.51	45.32	54.00	-8.68	AVG	100	270	



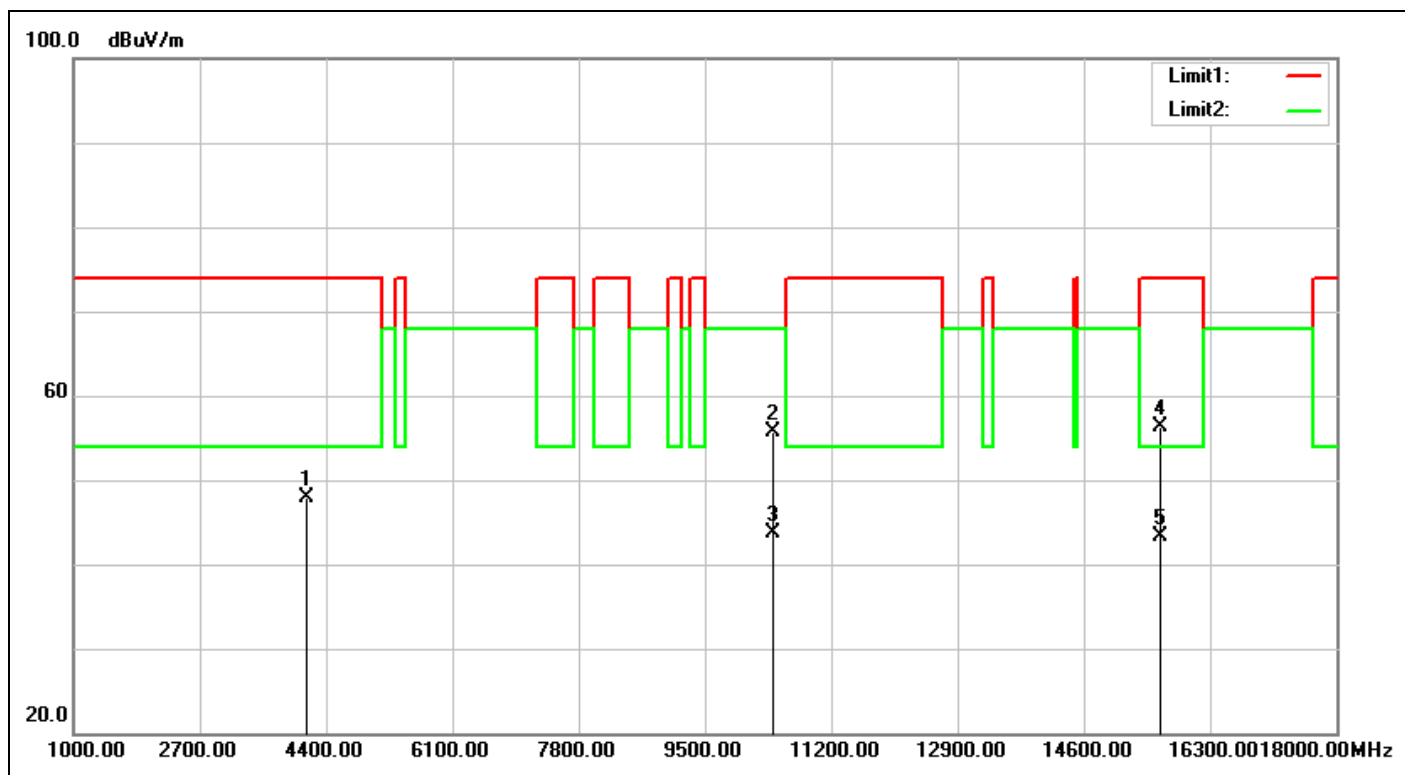
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 20:48:48
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5230		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4145.000	-3.40	50.50	47.10	74.00	-26.90	peak	100	104	
2	10460.000	5.42	47.12	52.54	68.00	-15.46	peak	100	296	
3	10460.000	5.42	34.94	40.36	68.00	-27.64	AVG	100	296	
4	15690.000	12.15	44.97	57.12	74.00	-16.88	peak	100	203	
5	15690.000	12.15	33.13	45.28	54.00	-8.72	AVG	100	203	



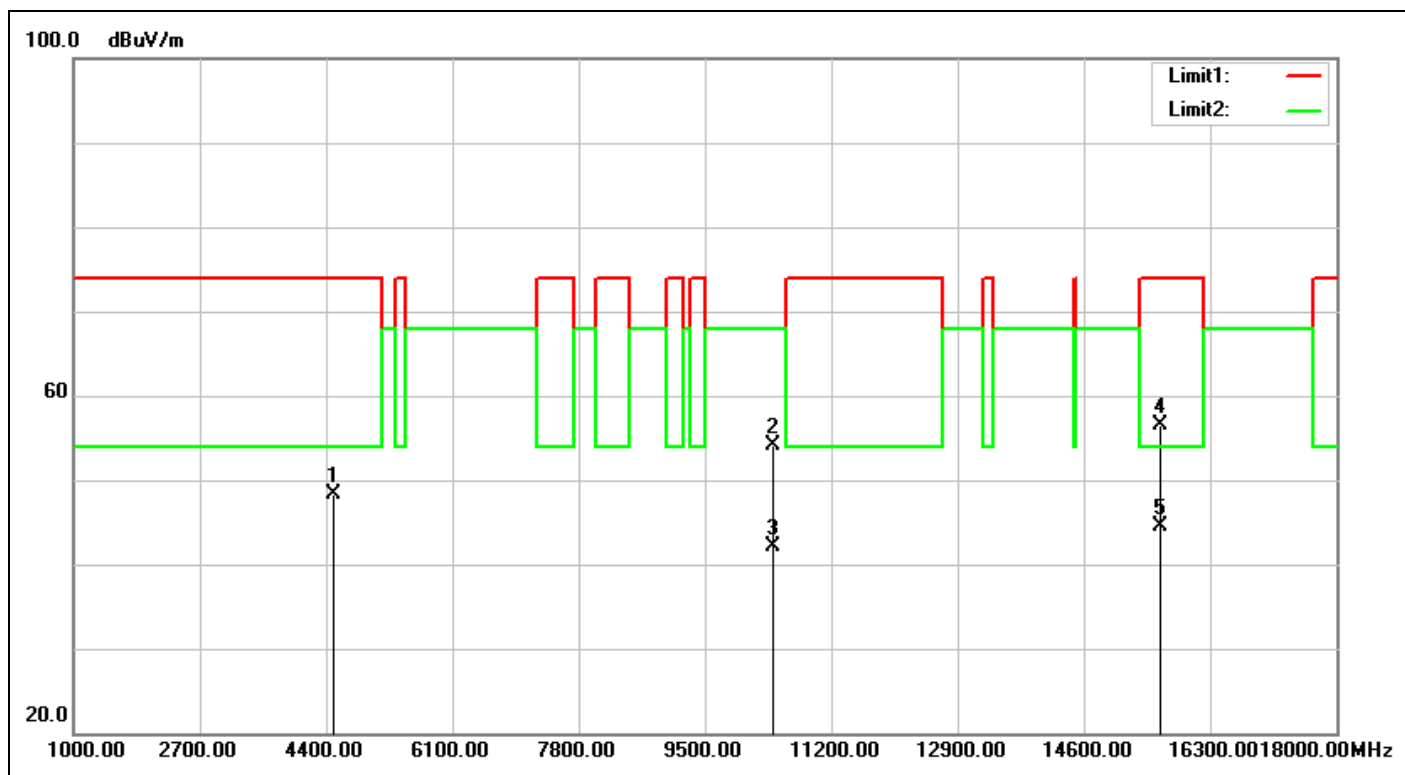
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:49:40
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5230		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4451.000	-2.32	50.72	48.40	74.00	-25.60	peak	100	102	
2	10460.000	5.42	48.35	53.77	68.00	-14.23	peak	100	225	
3	10460.000	5.42	36.26	41.68	68.00	-26.32	AVG	100	225	
4	15690.000	12.15	44.09	56.24	74.00	-17.76	peak	100	150	
5	15690.000	12.15	32.95	45.10	54.00	-8.90	AVG	100	150	



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 20:53:22
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC80-2TX-5210		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4128.000	-3.46	51.35	47.89	74.00	-26.11	peak	100	350	
2	10420.000	5.51	50.27	55.78	68.00	-12.22	peak	100	234	
3	10420.000	5.51	38.12	43.63	68.00	-24.37	AVG	100	234	
4	15630.000	11.98	44.42	56.40	74.00	-17.60	peak	100	309	
5	15630.000	11.98	31.32	43.30	54.00	-10.70	AVG	100	309	



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 20:54:14
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC80-2TX-5210		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4502.000	-2.15	50.50	48.35	74.00	-25.65	peak	100	171	
2	10420.000	5.51	48.64	54.15	68.00	-13.85	peak	100	187	
3	10420.000	5.51	36.67	42.18	68.00	-25.82	AVG	100	187	
4	15630.000	11.98	44.57	56.55	74.00	-17.45	peak	100	0	
5	15630.000	11.98	32.50	44.48	54.00	-9.52	AVG	100	0	

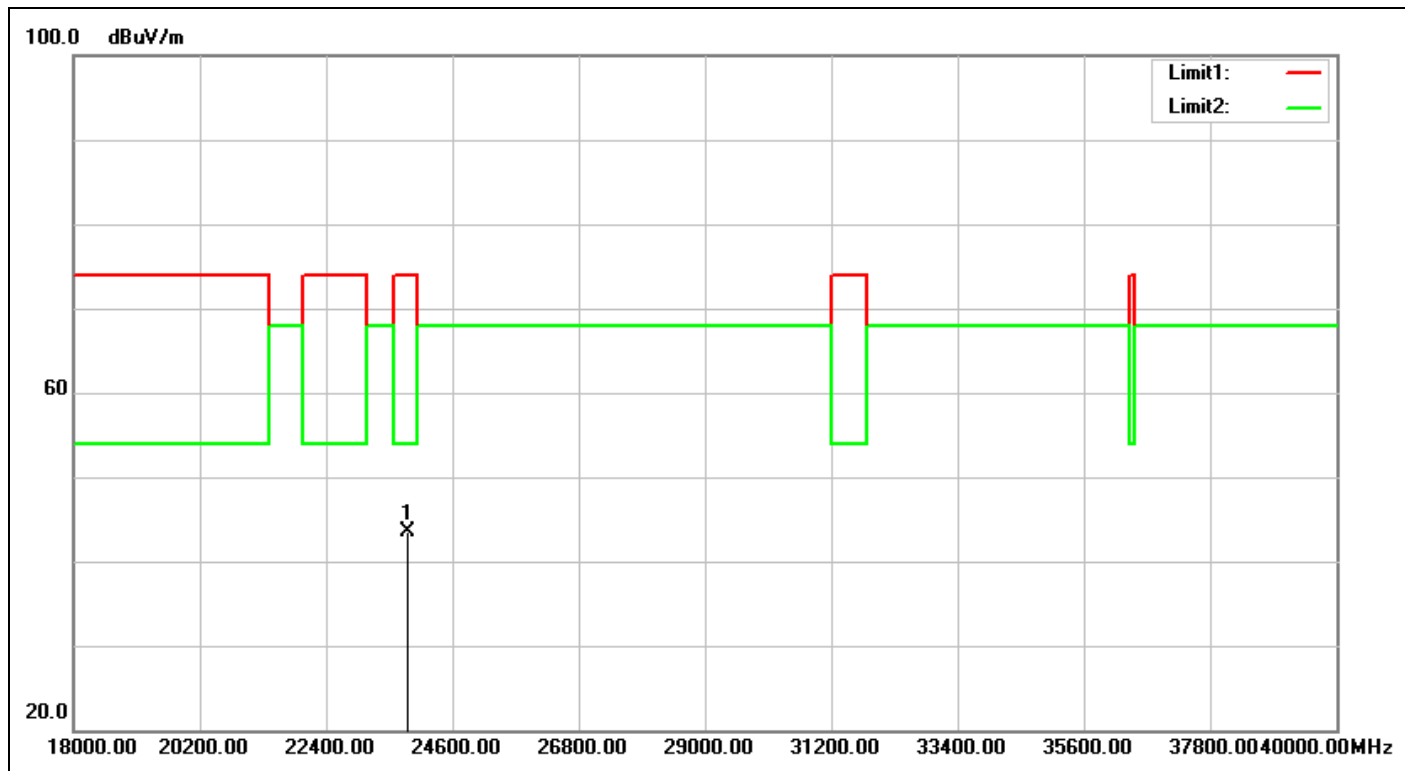
Spurious Emissions, TX Mode, 18-40G



TUV Rheinland Taiwan Ltd.

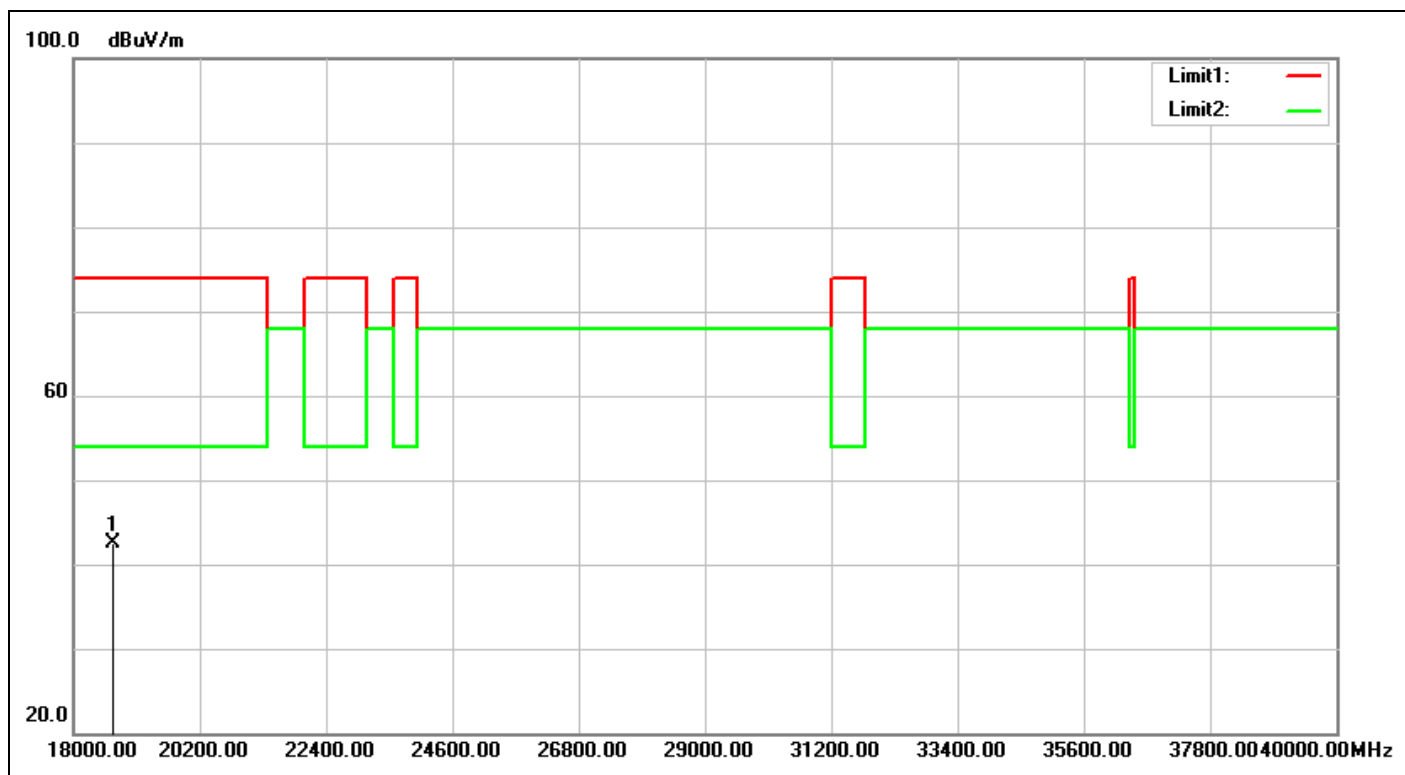
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



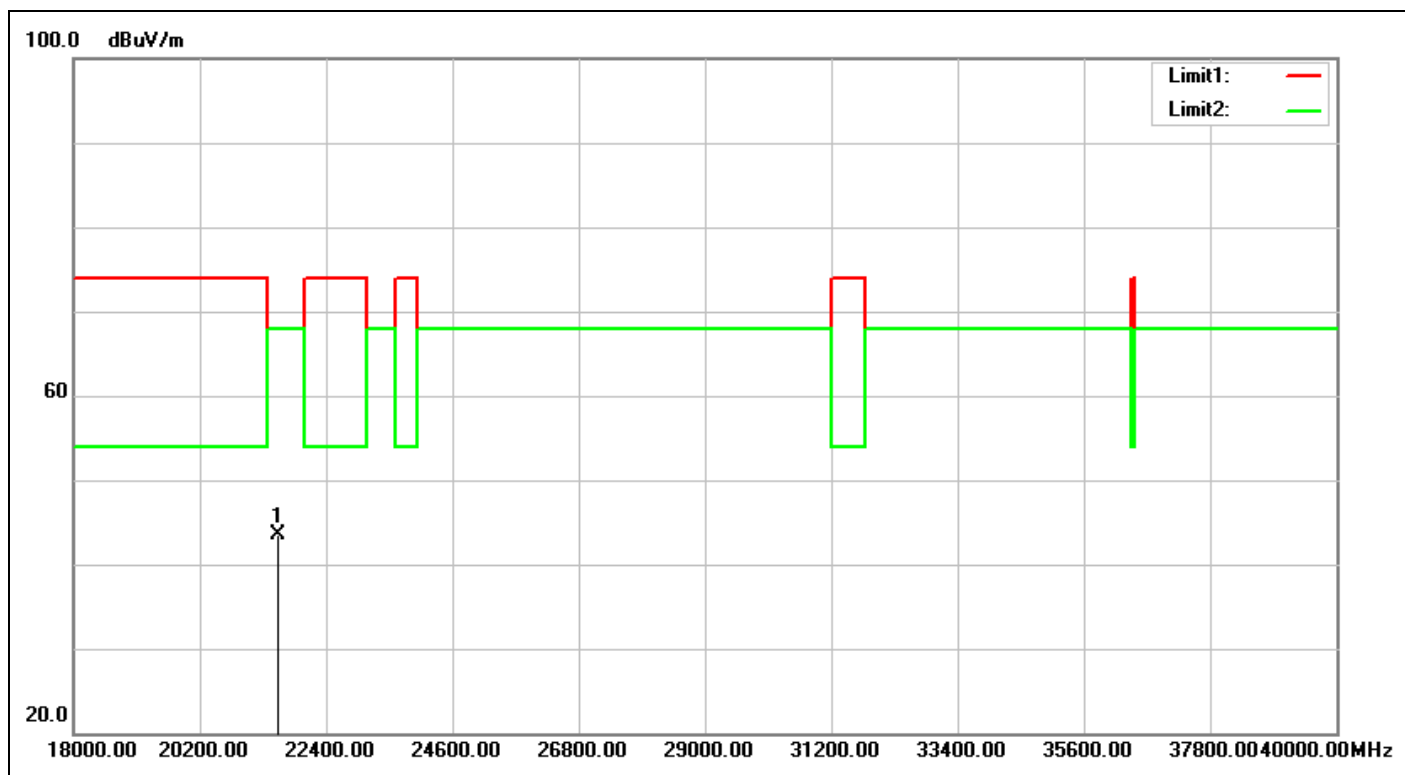
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:05:17
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23830.000	5.58	37.99	43.57	74.00	-30.43	peak	100	149	



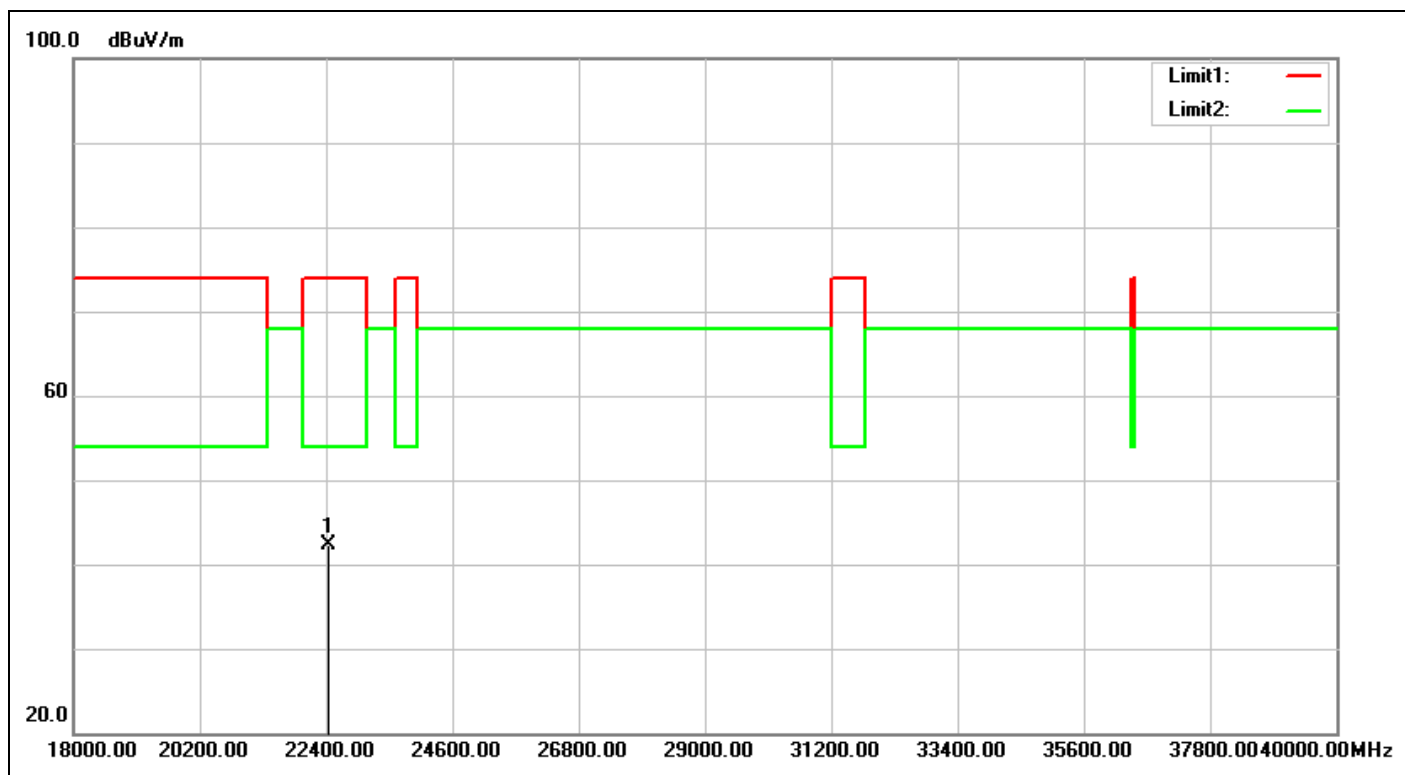
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:06:09
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18682.000	4.26	38.21	42.47	74.00	-31.53	peak	100	222	



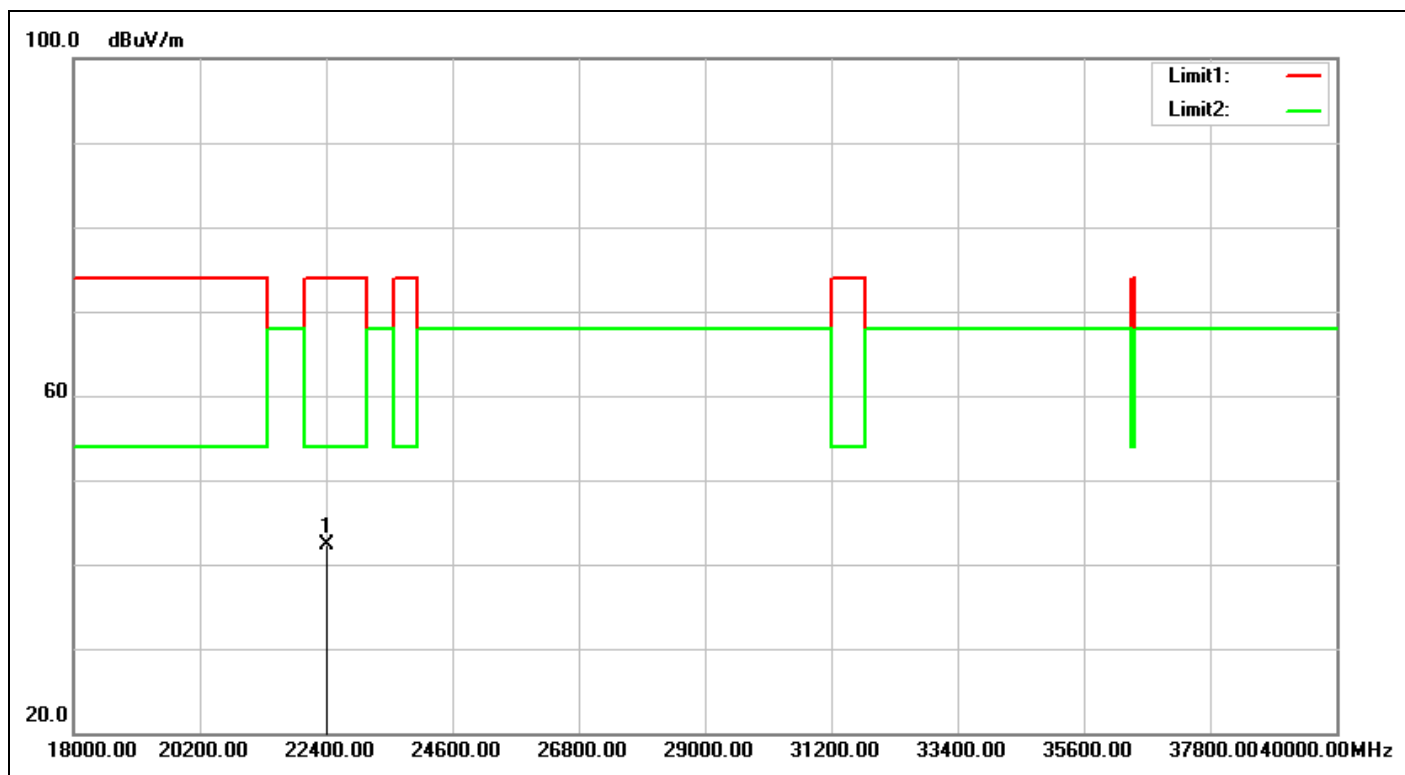
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:07:37
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21564.000	4.29	39.16	43.45	68.00	-24.55	peak	100	1	



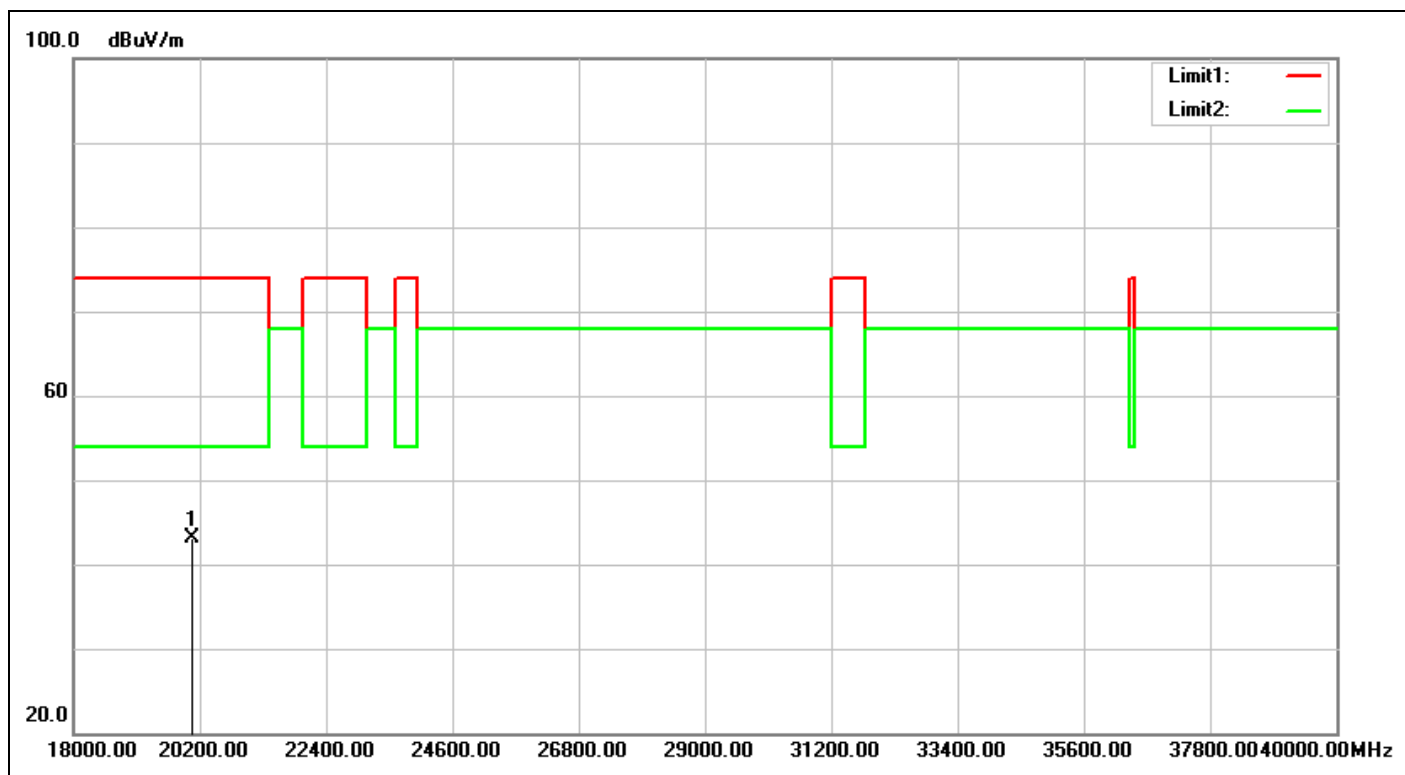
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:08:30
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22444.000	4.59	37.68	42.27	74.00	-31.73	peak	100	1	



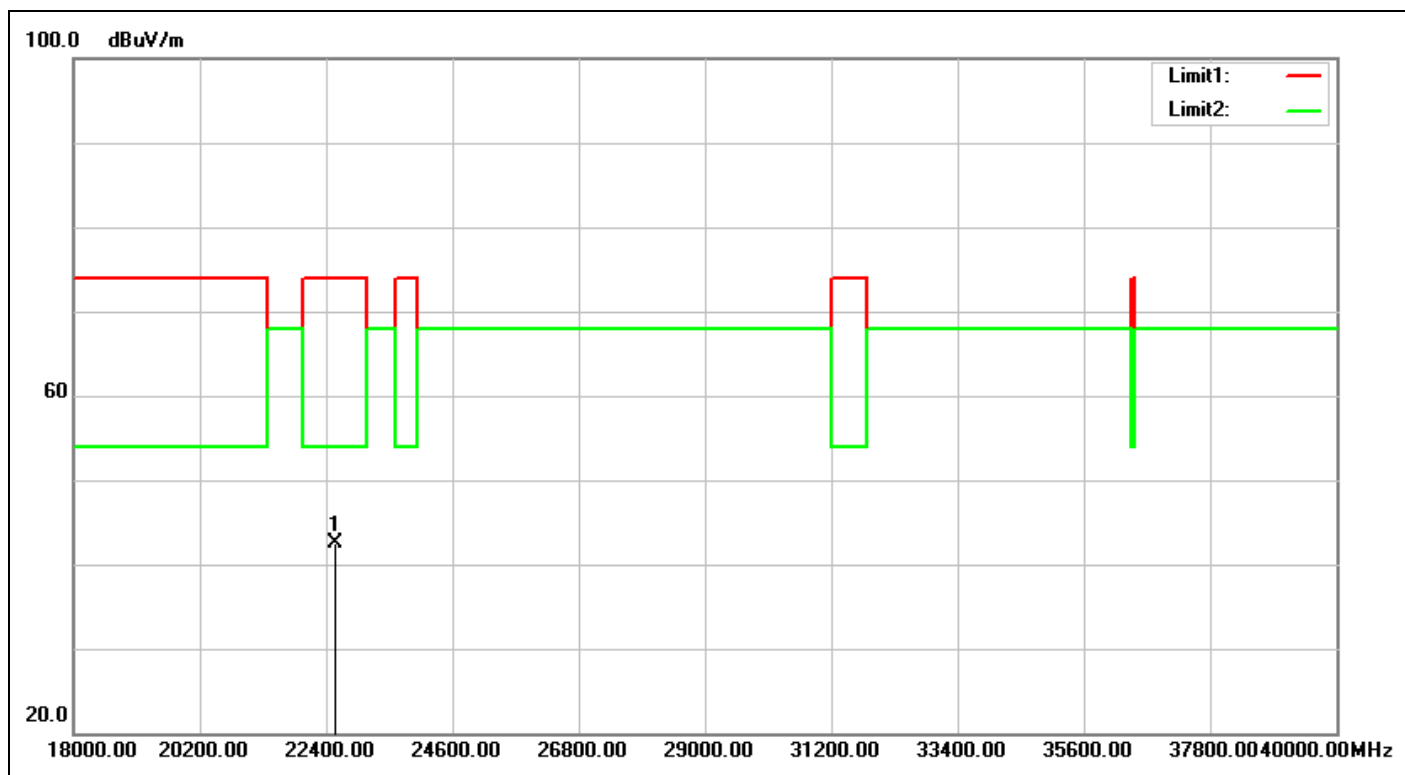
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:09:51
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22422.000	4.56	37.72	42.28	74.00	-31.72	peak	100	224	



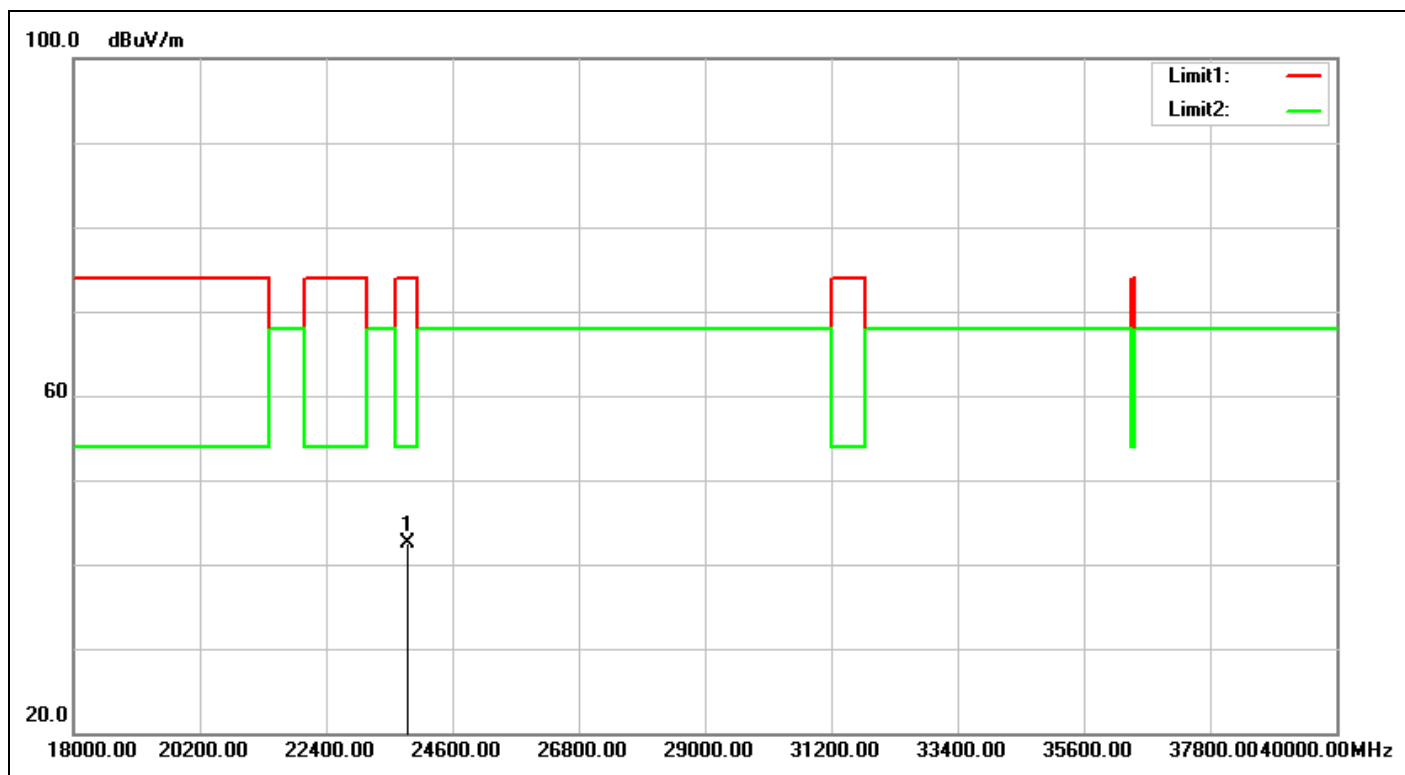
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:10:43
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20068.000	4.26	38.93	43.19	74.00	-30.81	peak	100	85	



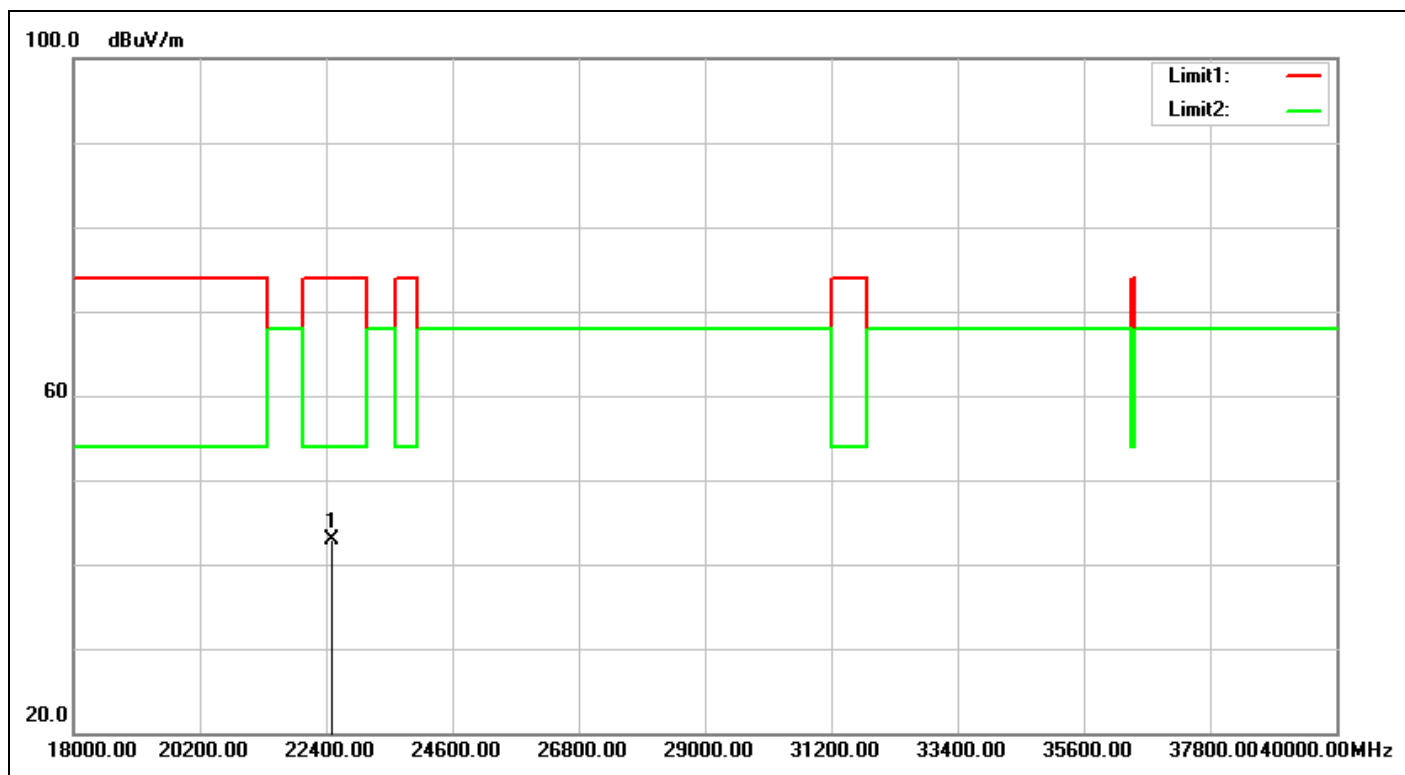
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:14:54
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22554.000	4.72	37.83	42.55	74.00	-31.45	peak	100	220	



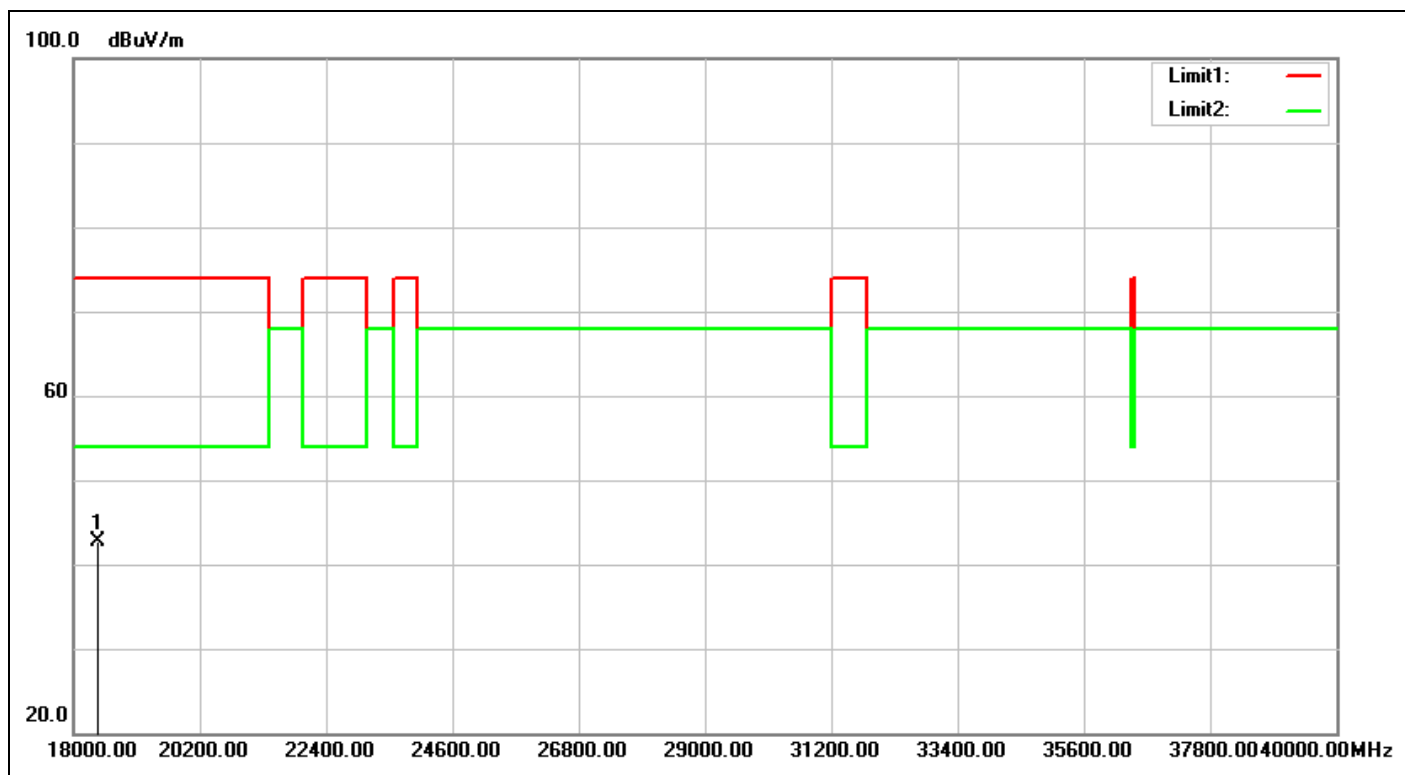
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:15:47
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5180		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23830.000	5.58	37.01	42.59	74.00	-31.41	peak	100	76	



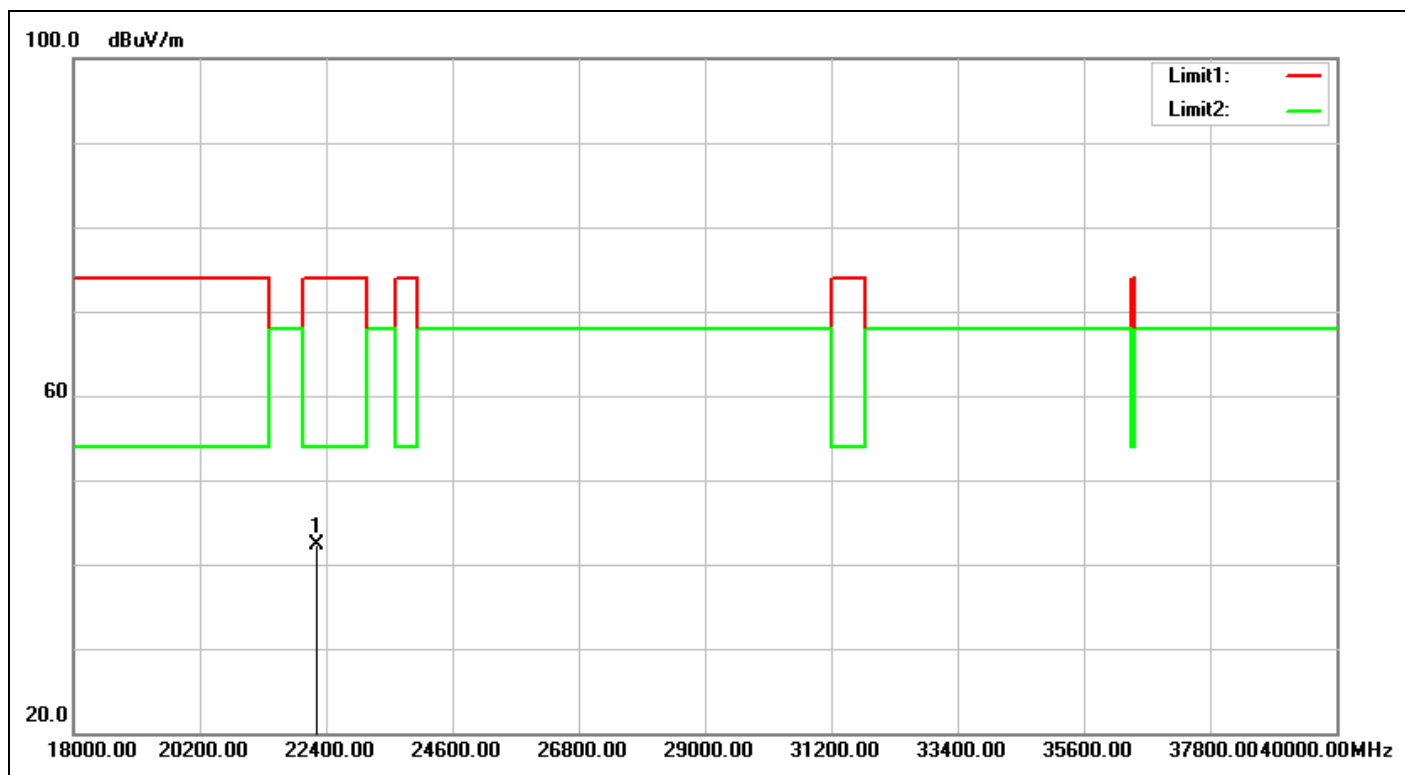
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:17:06
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22510.000	4.67	38.23	42.90	74.00	-31.10	peak	100	118	



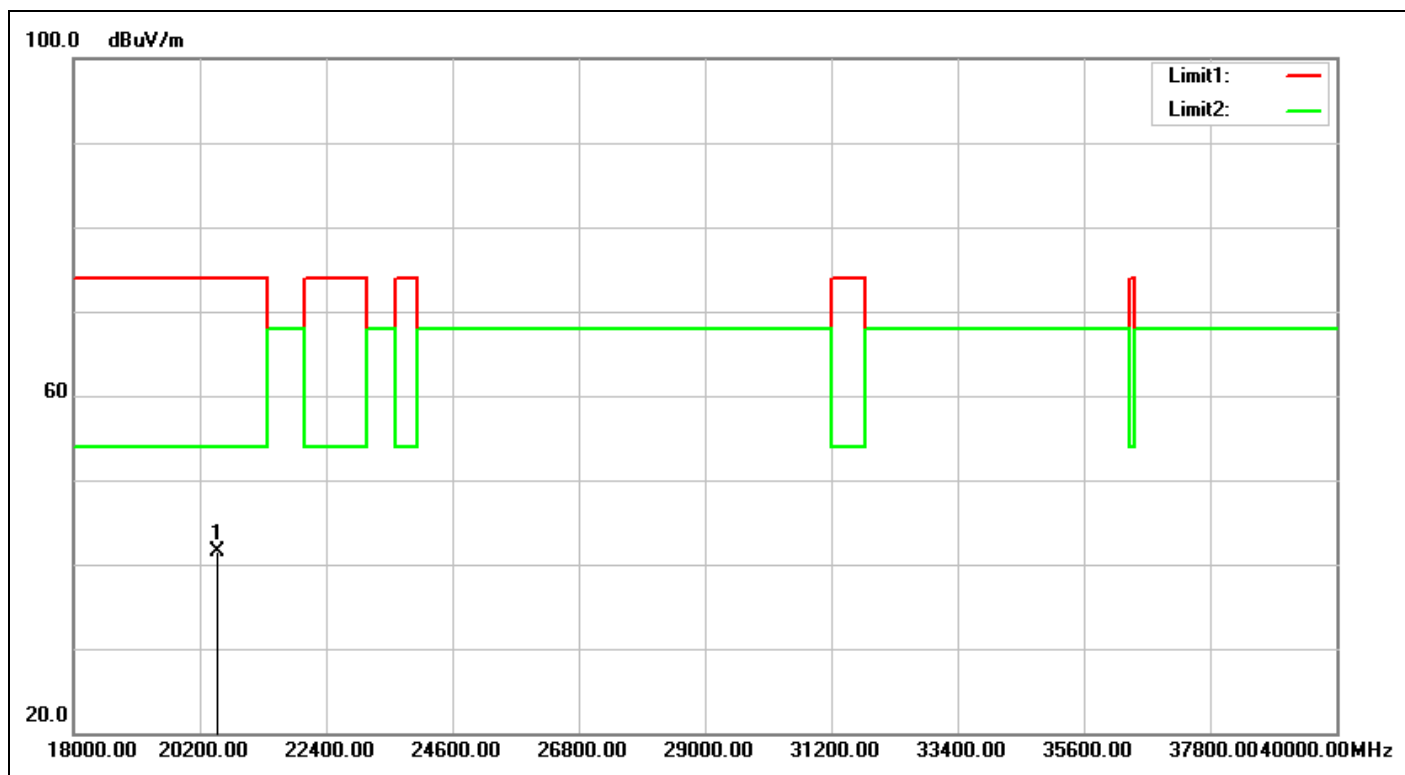
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:17:59
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18418.000	4.16	38.61	42.77	74.00	-31.23	peak	100	191	



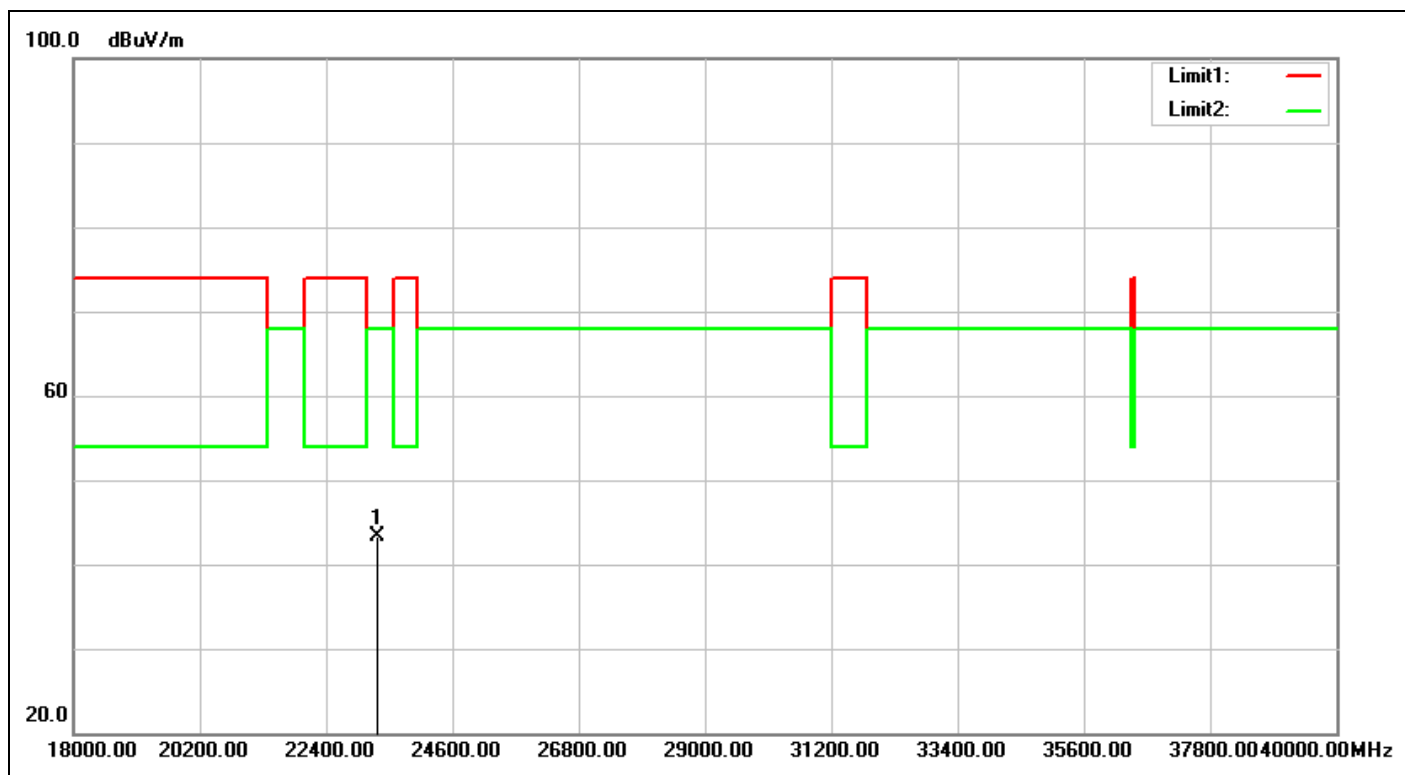
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Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:12:20
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22246.000	4.36	37.88	42.24	74.00	-31.76	peak	100	353	



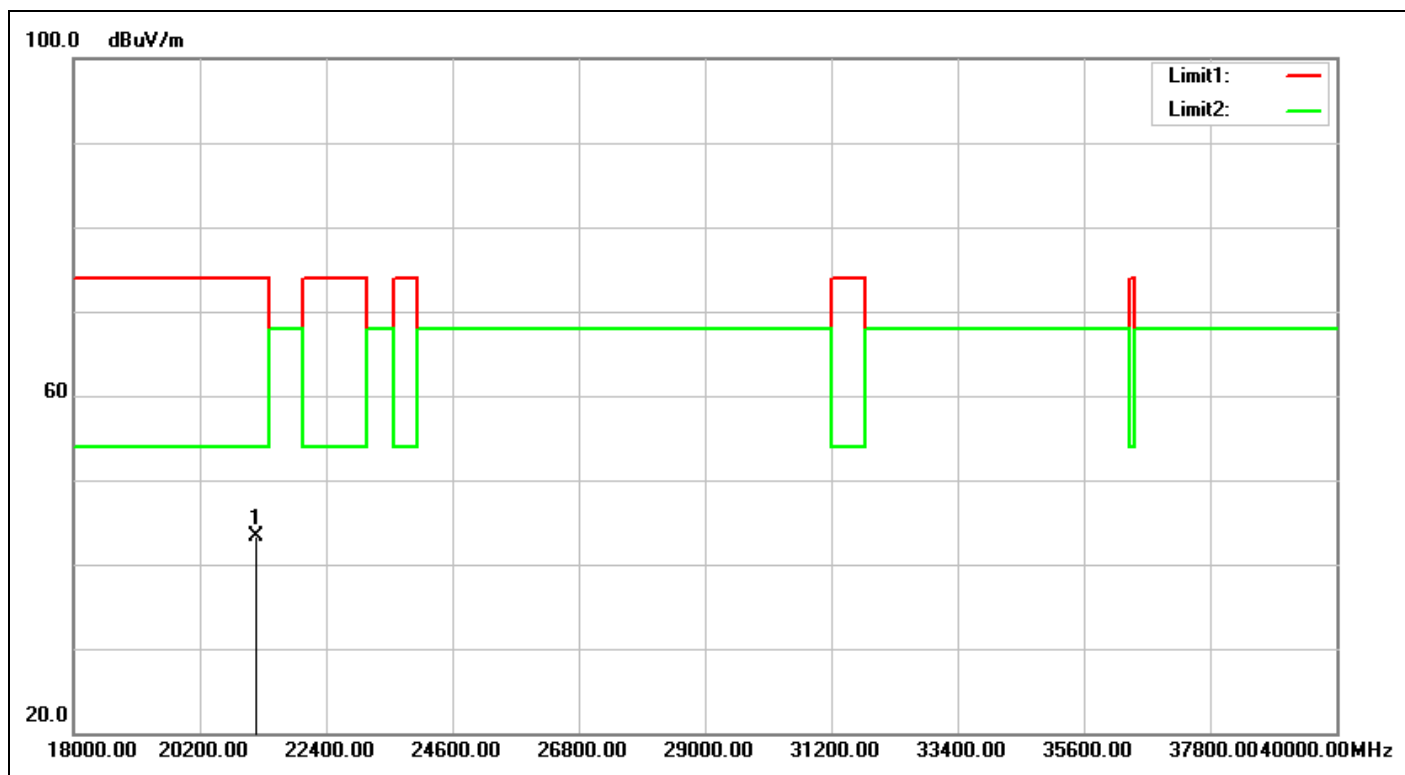
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:13:13
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC20-2TX-5240		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20508.000	4.19	37.34	41.53	74.00	-32.47	peak	100	51	



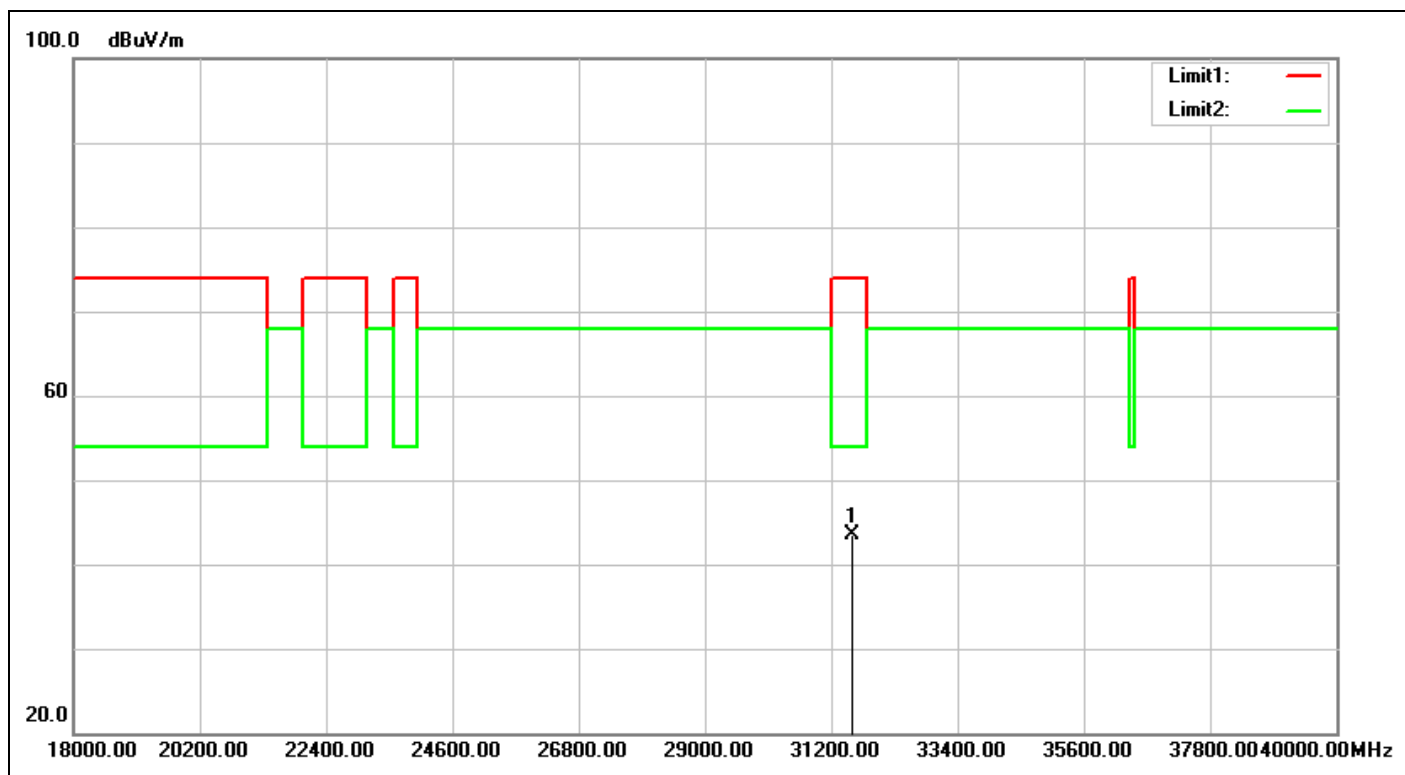
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:20:14
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5190		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23302.000	5.65	37.72	43.37	68.00	-24.63	peak	100	2	



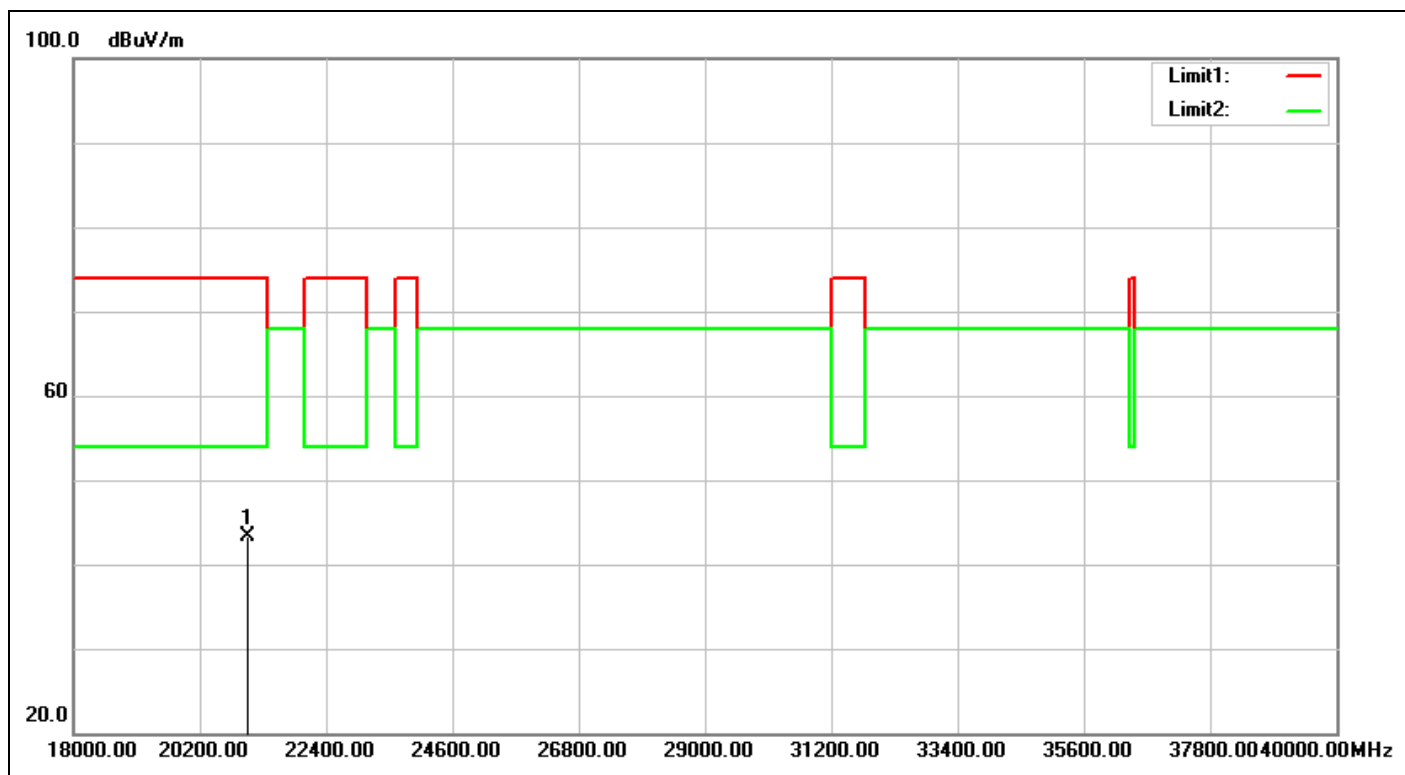
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:21:07
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5190		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21190.000	4.61	38.73	43.34	74.00	-30.66	peak	100	259	



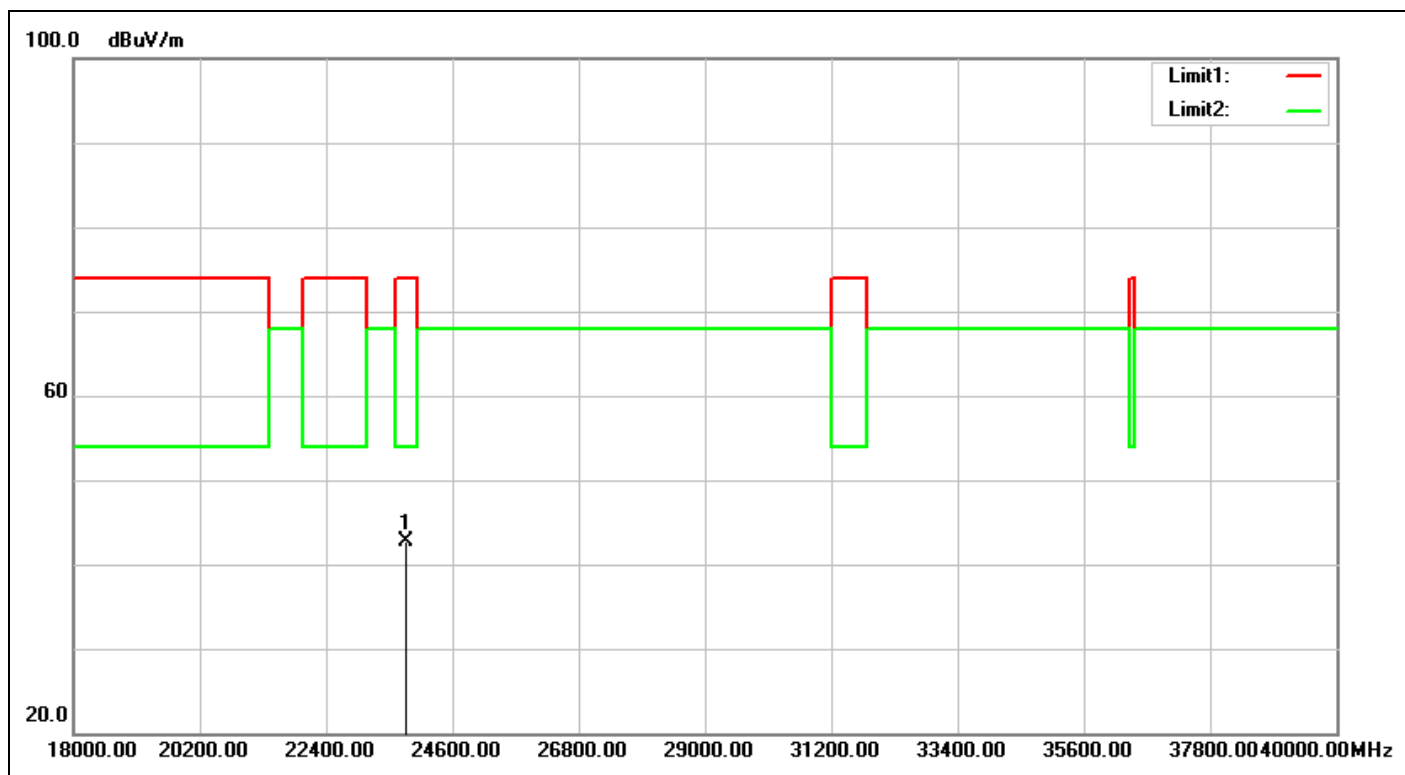
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:22:22
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5230		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	31574.000	4.90	38.61	43.51	74.00	-30.49	peak	100	262	



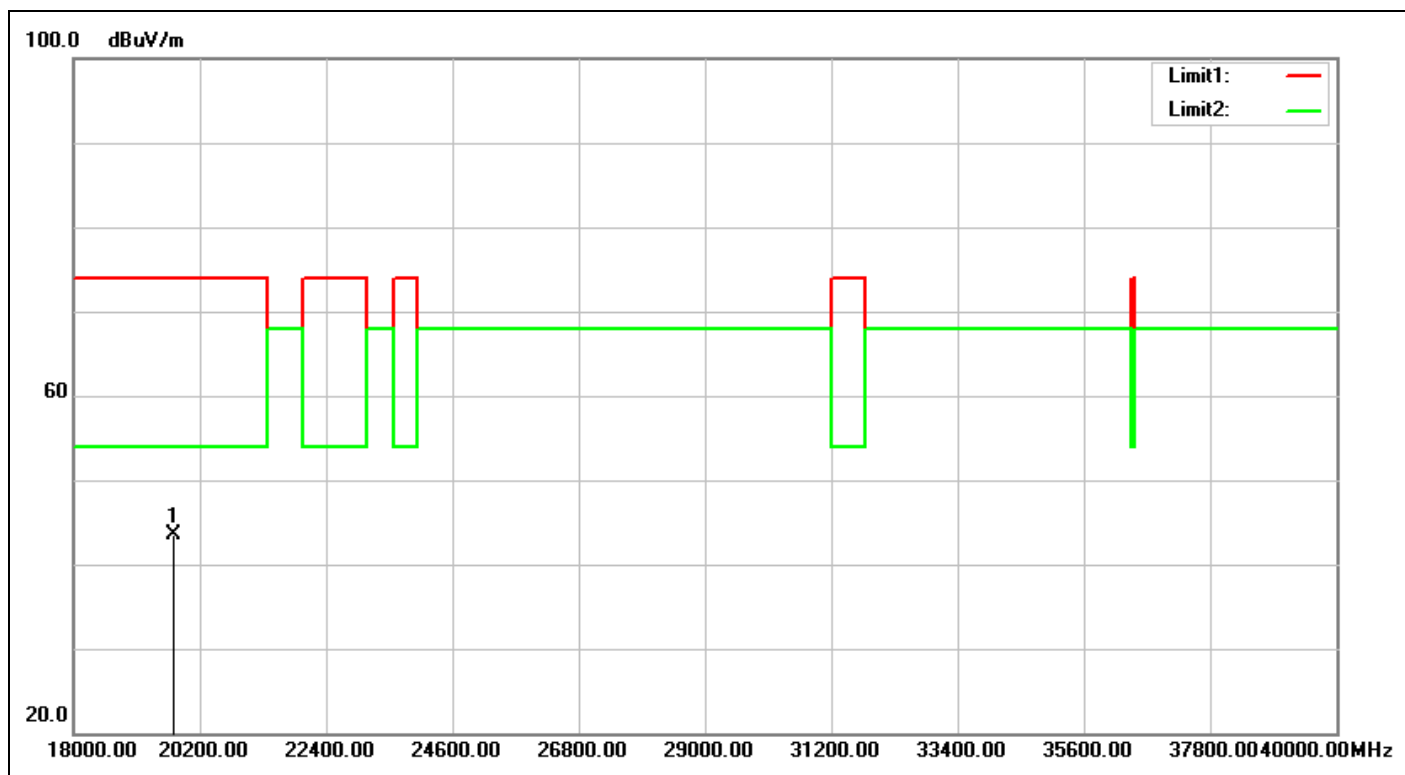
Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:23:15
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC40-2TX-5230		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21036.000	4.76	38.51	43.27	74.00	-30.73	peak	100	236	



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:24:38
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC80-2TX-5210		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23786.000	5.63	37.14	42.77	74.00	-31.23	peak	100	268	



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC 1-40G UNII PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:25:31
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	AC80-2TX-5210		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19738.000	4.03	39.44	43.47	74.00	-30.53	peak	100	314	

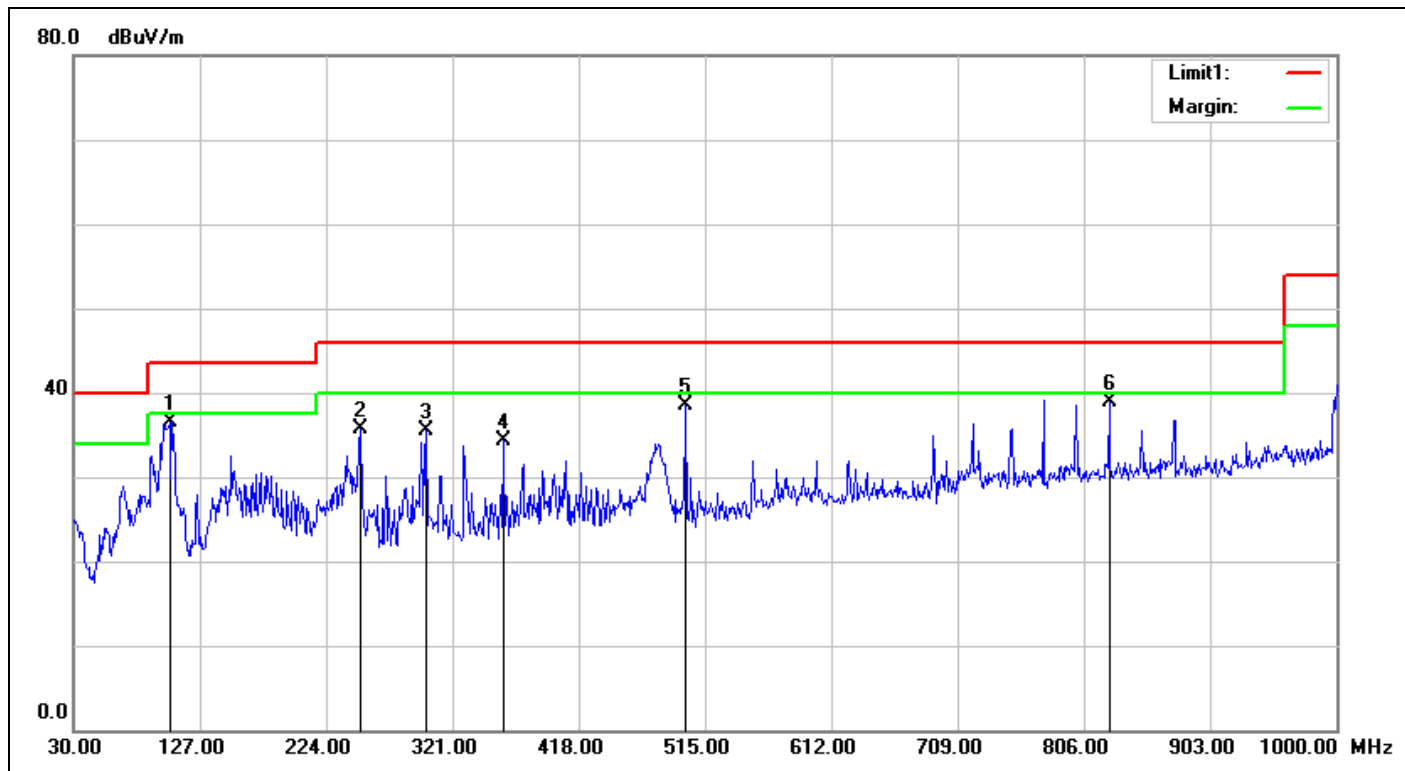
Spurious Emissions, TX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

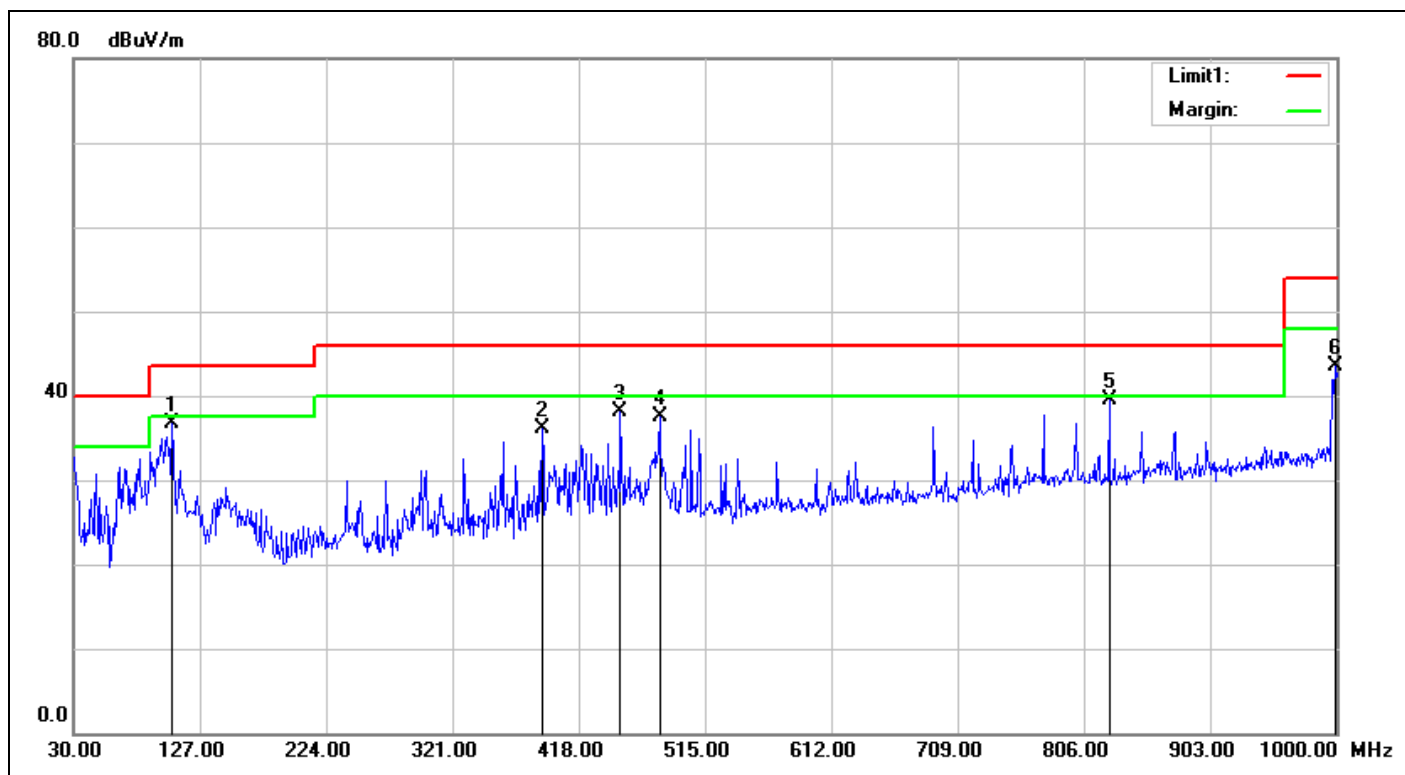
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/10/16 22:43:19
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	103.7199	-8.94	45.41	36.47	43.50	-7.03	QP	100	38	
2	250.1899	-5.67	41.34	35.67	46.00	-10.33	QP	100	180	
3	300.6298	-4.55	40.13	35.58	46.00	-10.42	QP	100	220	
4	359.8000	-3.18	37.43	34.25	46.00	-11.75	QP	100	282	
5	500.4499	-1.20	39.77	38.57	46.00	-7.43	QP	100	164	
6	825.3999	3.40	35.55	38.95	46.00	-7.05	QP	100	121	



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/10/16 22:44:12
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	105.6600	-8.63	45.35	36.72	43.50	-6.78	QP	100	229	
2	389.8700	-2.74	38.87	36.13	46.00	-9.87	QP	100	75	
3	450.0100	-1.96	40.10	38.14	46.00	-7.86	QP	100	29	
4	480.0800	-1.52	39.02	37.50	46.00	-8.50	QP	100	170	
5	825.4000	3.40	36.19	39.59	46.00	-6.41	QP	100	144	
6	999.0300	5.89	37.66	43.55	54.00	-10.45	QP	100	196	

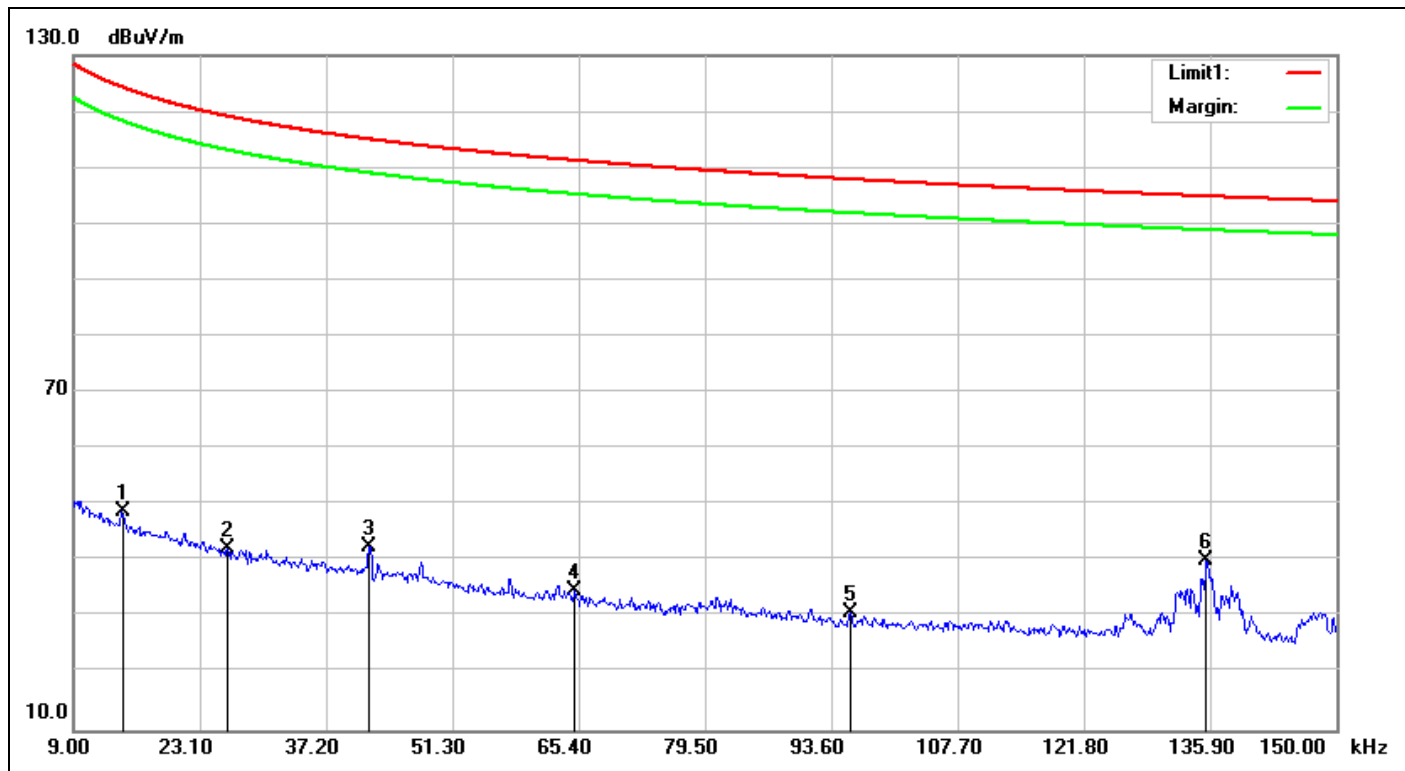
Spurious Emissions, TX Mode, 9K-30M



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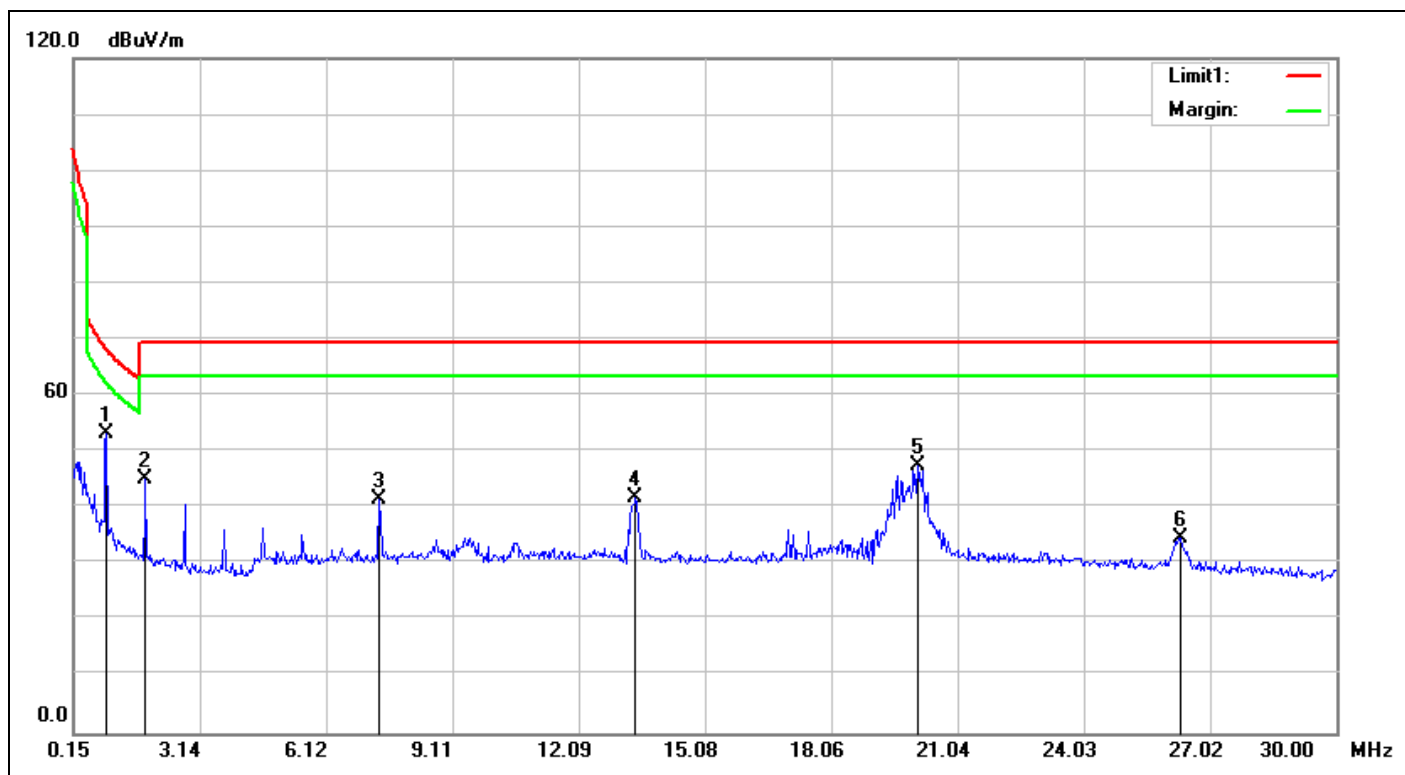
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Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/10/16 22:34:49
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%)	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0144	18.70	30.21	48.91	124.33	-75.42	QP	100	72	
2	0.0262	19.17	23.23	42.40	119.15	-76.75	QP	100	205	
3	0.0420	19.08	23.55	42.63	115.07	-72.44	QP	100	140	
4	0.0650	18.74	15.99	34.73	111.29	-76.56	QP	100	72	
5	0.0957	18.38	12.41	30.79	107.94	-77.15	QP	100	358	
6	0.1355	18.35	21.75	40.10	104.93	-64.83	QP	100	359	



Service No.:	114082189	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/10/16 22:39:23
Applicant:	InnoComm	Test Rating:	DC 5V
Product:	Wireless audio module	Temp.(°C)/Hum.(%):	21(°C)/67%
Model No.:	WB10	Test Engineer:	Kevin Kuo
Test Mode:	A-2TX-5200		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.9261	18.68	34.43	53.11	68.29	-15.18	QP	100	14	
2	1.8515	18.61	26.58	45.19	69.50	-24.31	QP	100	331	
3	7.3737	19.93	21.64	41.57	69.50	-27.93	QP	100	192	
4	13.4332	20.84	21.01	41.85	69.50	-27.65	QP	100	38	
5	20.1197	21.61	25.95	47.56	69.50	-21.94	QP	100	199	
6	26.2986	21.84	12.88	34.72	69.50	-34.78	QP	100	175	

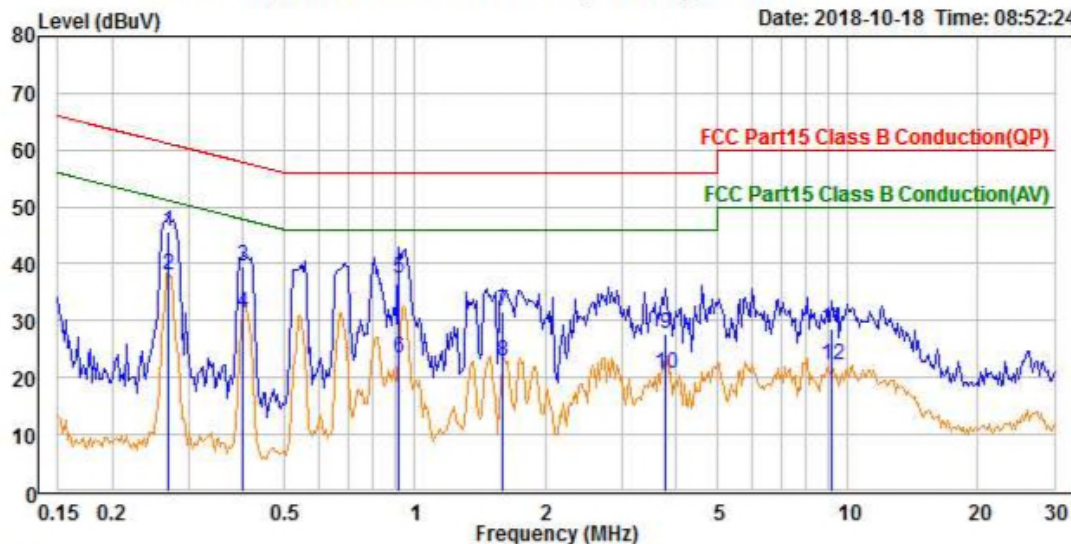
Spurious Emissions, AC Mains



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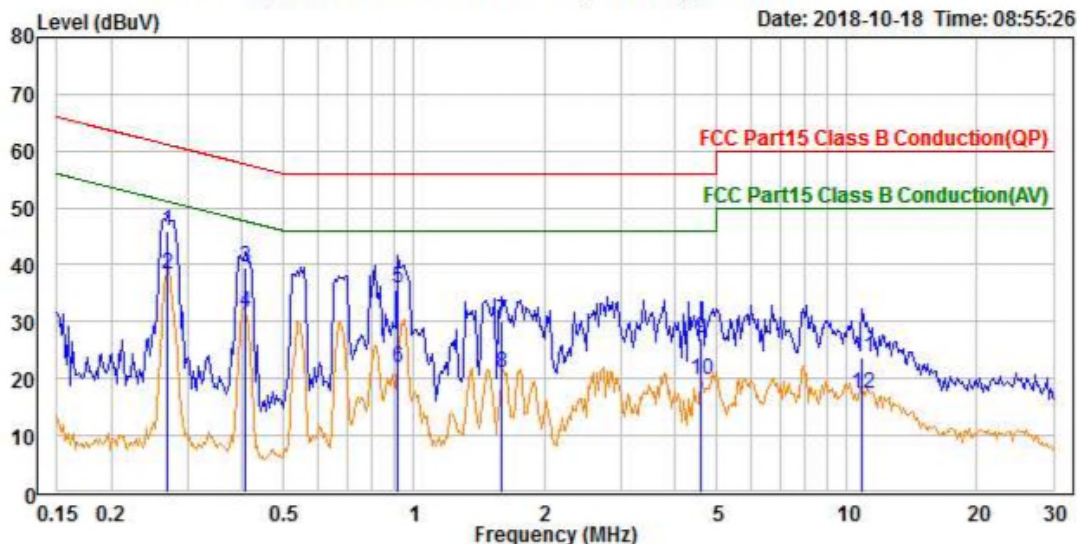


Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Amy Hsu
Applicant : InnoComm
Product : Wireless Module
Model No. : WB10
Test Rating : 120Vac/60Hz
Tmp/Hum : 23.2°C/55%
Memo : Normal operation

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.270	36.02	9.68	45.70	61.13	-15.43	QP
2	0.270	28.23	9.68	37.91	51.13	-13.22	Average
3	0.401	29.78	9.69	39.47	57.83	-18.36	QP
4	0.401	21.58	9.69	31.27	47.83	-16.56	Average
5	0.916	27.67	9.70	37.37	56.00	-18.63	QP
6	0.916	13.60	9.70	23.30	46.00	-22.70	Average
7	1.598	21.89	9.72	31.61	56.00	-24.39	QP
8	1.598	12.98	9.72	22.70	46.00	-23.30	Average
9	3.795	17.93	9.74	27.67	56.00	-28.33	QP
10	3.795	10.80	9.74	20.54	46.00	-25.46	Average
11	9.191	18.72	9.83	28.55	60.00	-31.45	QP
12	9.191	12.26	9.83	22.09	50.00	-27.91	Average

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Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Amy Hsu
Applicant : InnoComm
Product : Wireless Module
Model No. : WB10
Test Rating : 120Vac/60Hz
Tmp/Hum : 23.2°C/55%
Memo : Normal operation

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.270	36.37	9.68	46.05	61.13	-15.08	QP
2	0.270	28.63	9.68	38.31	51.13	-12.82	Average
3	0.409	29.89	9.68	39.57	57.66	-18.09	QP
4	0.409	22.06	9.68	31.74	47.66	-15.92	Average
5	0.916	26.28	9.70	35.98	56.00	-20.02	QP
6	0.916	12.24	9.70	21.94	46.00	-24.06	Average
7	1.598	20.37	9.72	30.09	56.00	-25.91	QP
8	1.598	11.16	9.72	20.88	46.00	-25.12	Average
9	4.583	17.40	9.76	27.16	56.00	-28.84	QP
10	4.583	9.91	9.76	19.67	46.00	-26.33	Average
11	10.884	14.02	9.84	23.86	60.00	-36.14	QP
12	10.884	7.40	9.84	17.24	50.00	-32.76	Average