

Test Report No.50105679 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50105679AppendixD)

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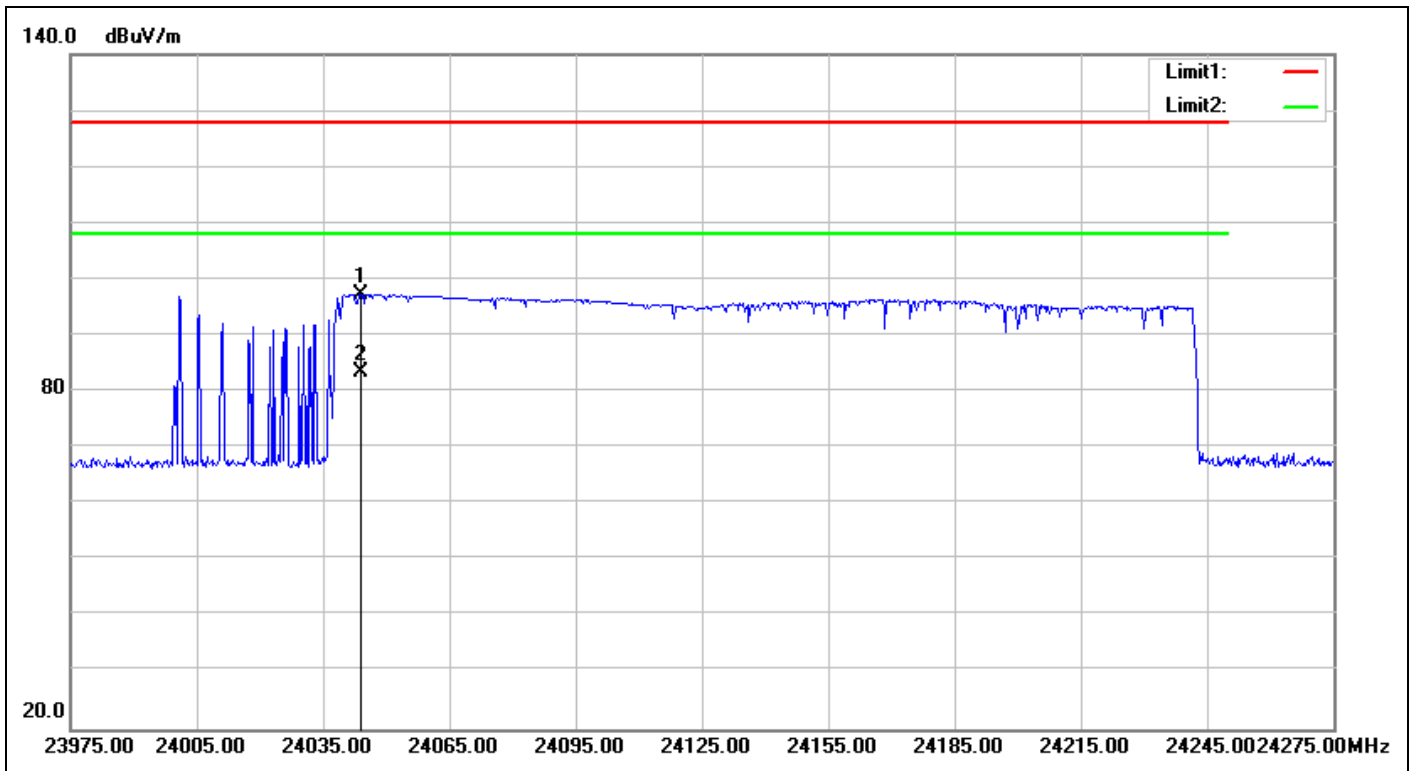
Fundamental Field Strength



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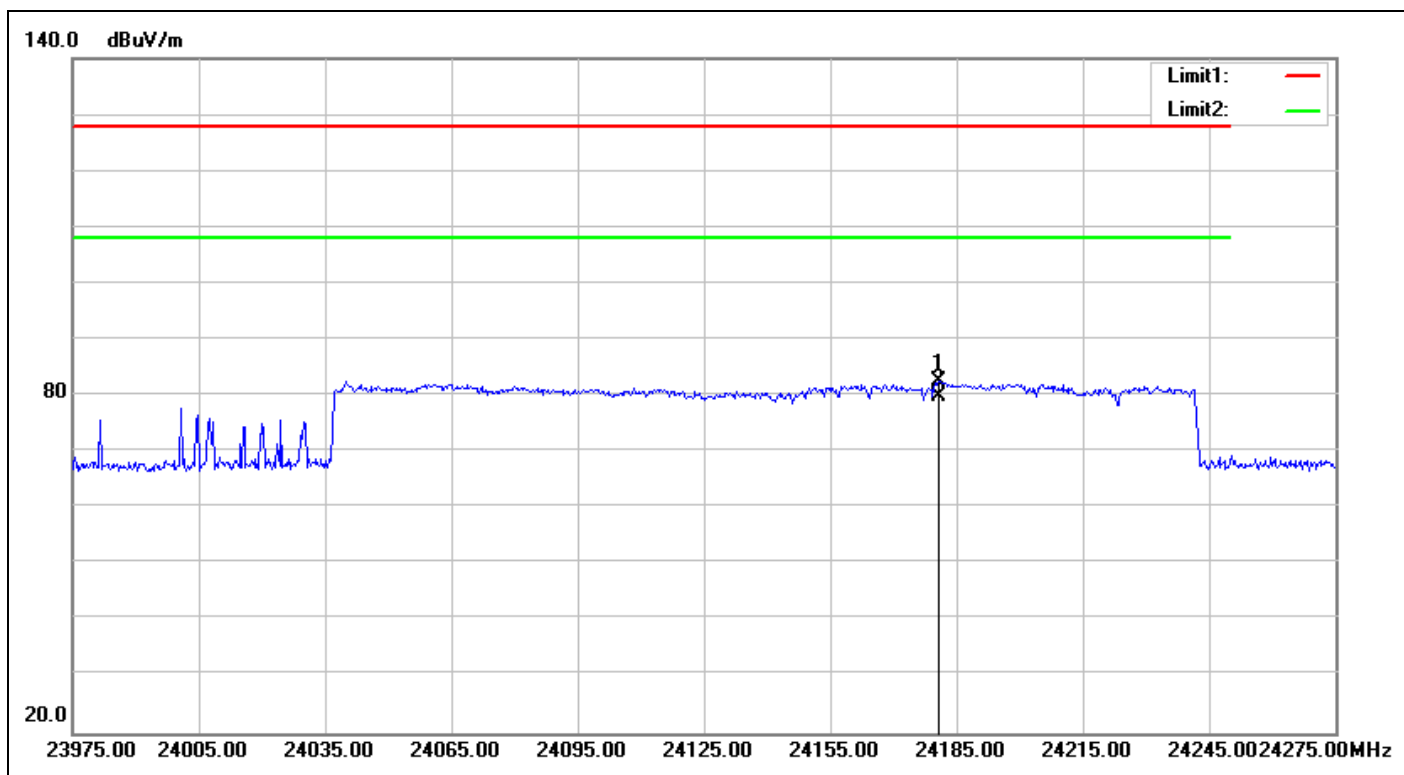
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC_3.10.2_TX_PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/24 20:14:09
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%):	22(°C)/56%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24044.000	31.69	65.67	97.36	128.00	-30.64	peak	150	178	
2	24044.000	31.69	51.64	83.33	108.00	-24.67	AVG	150	178	

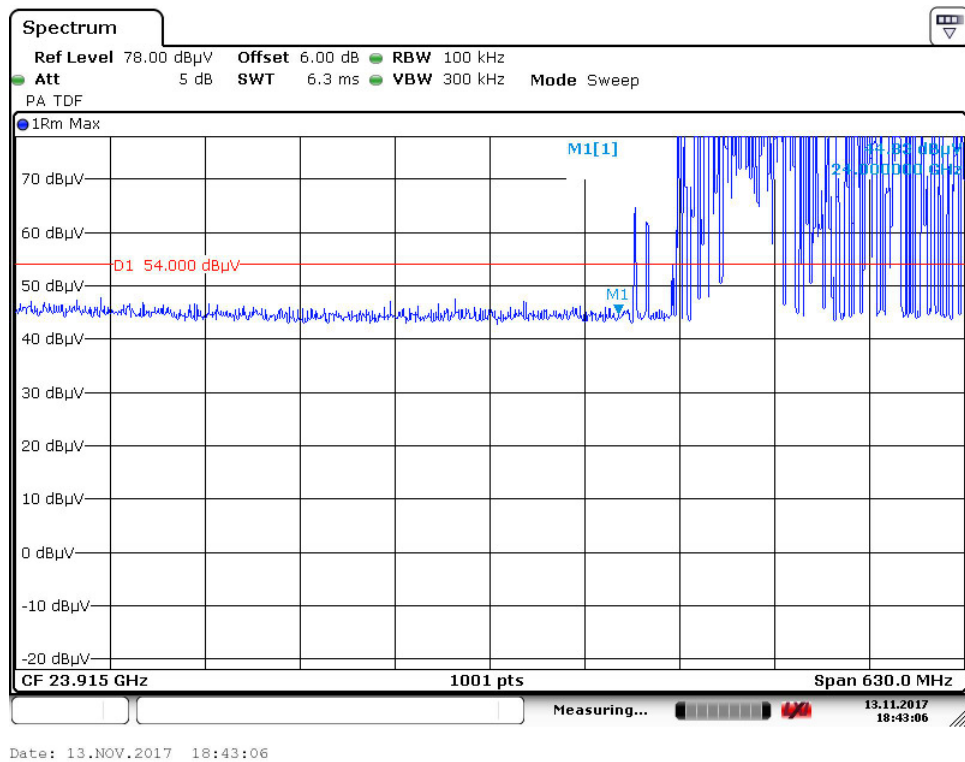
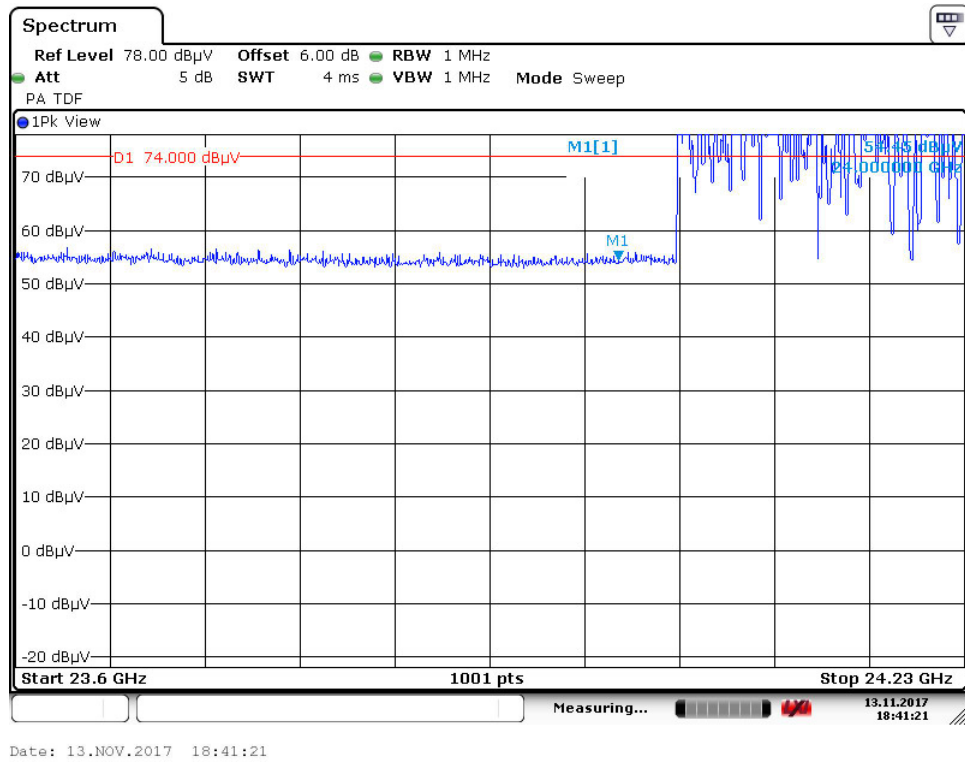


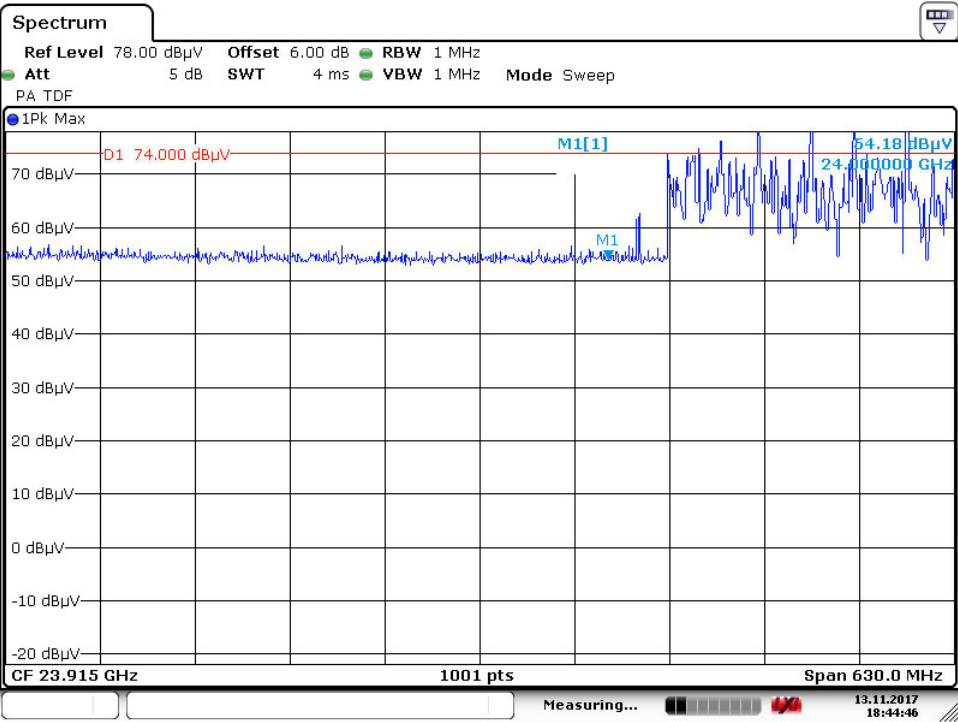
Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC_3.10.2_TX_PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/24 20:25:48
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%)	22(°C)/56%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24180.800	31.90	50.76	82.66	128.00	-45.34	peak	150	180	
2	24180.800	31.90	48.07	79.97	108.00	-28.03	AVG	150	180	

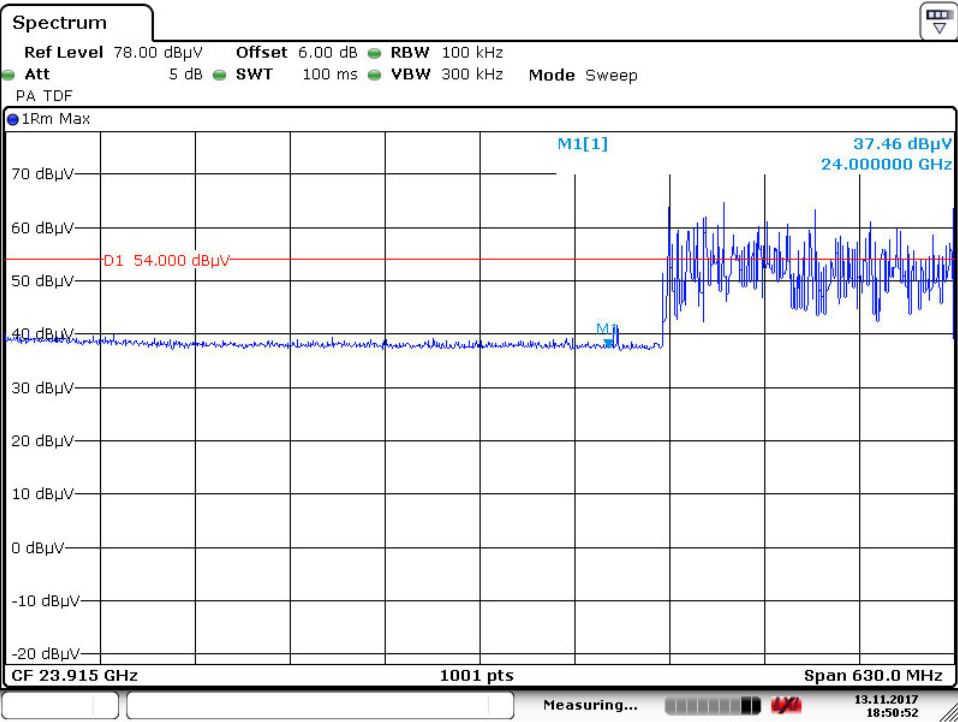
Radiated Emissions, Bandedge

24.03-24.23G (Hor)





Date: 13.NOV.2017 18:44:46



Date: 13.NOV.2017 18:50:52

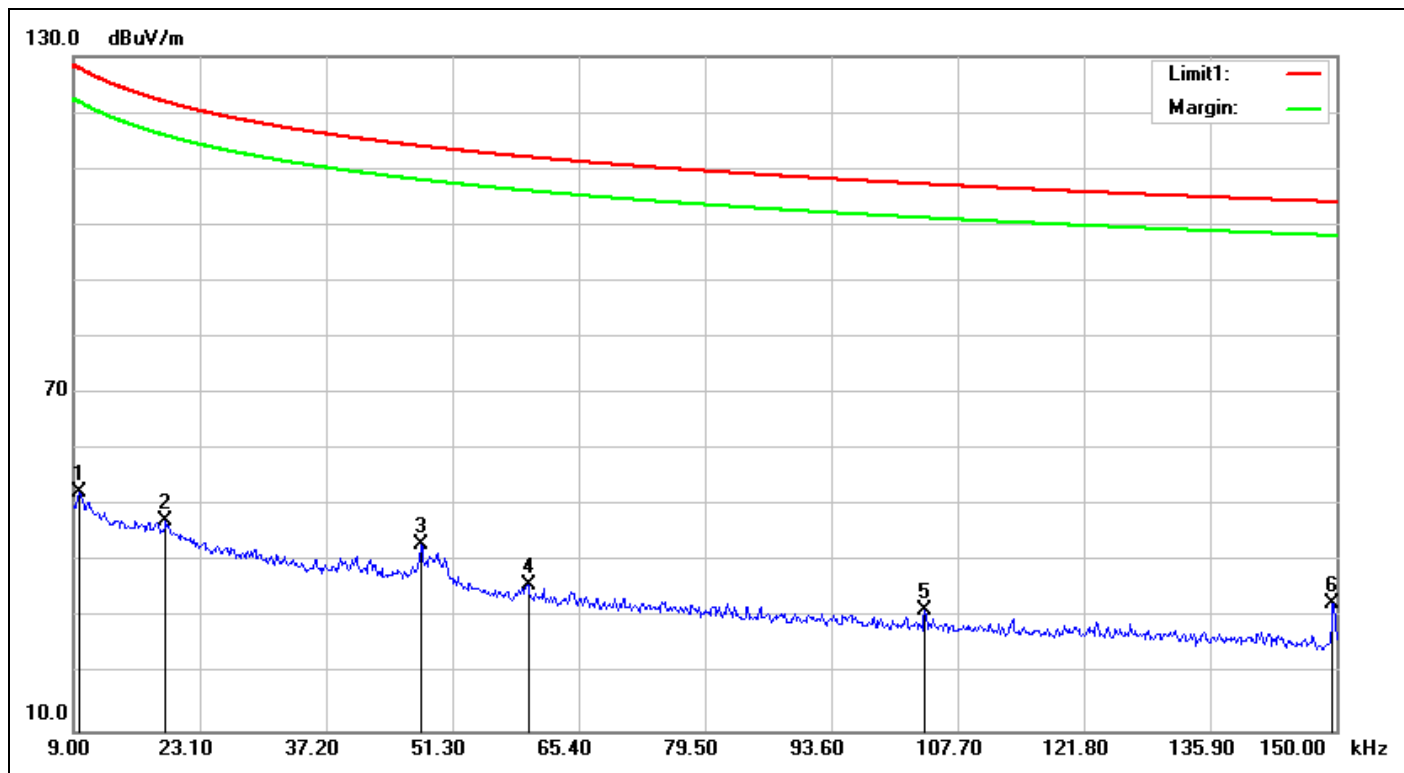
Spurious Emissions, TX Mode, 9k-1G



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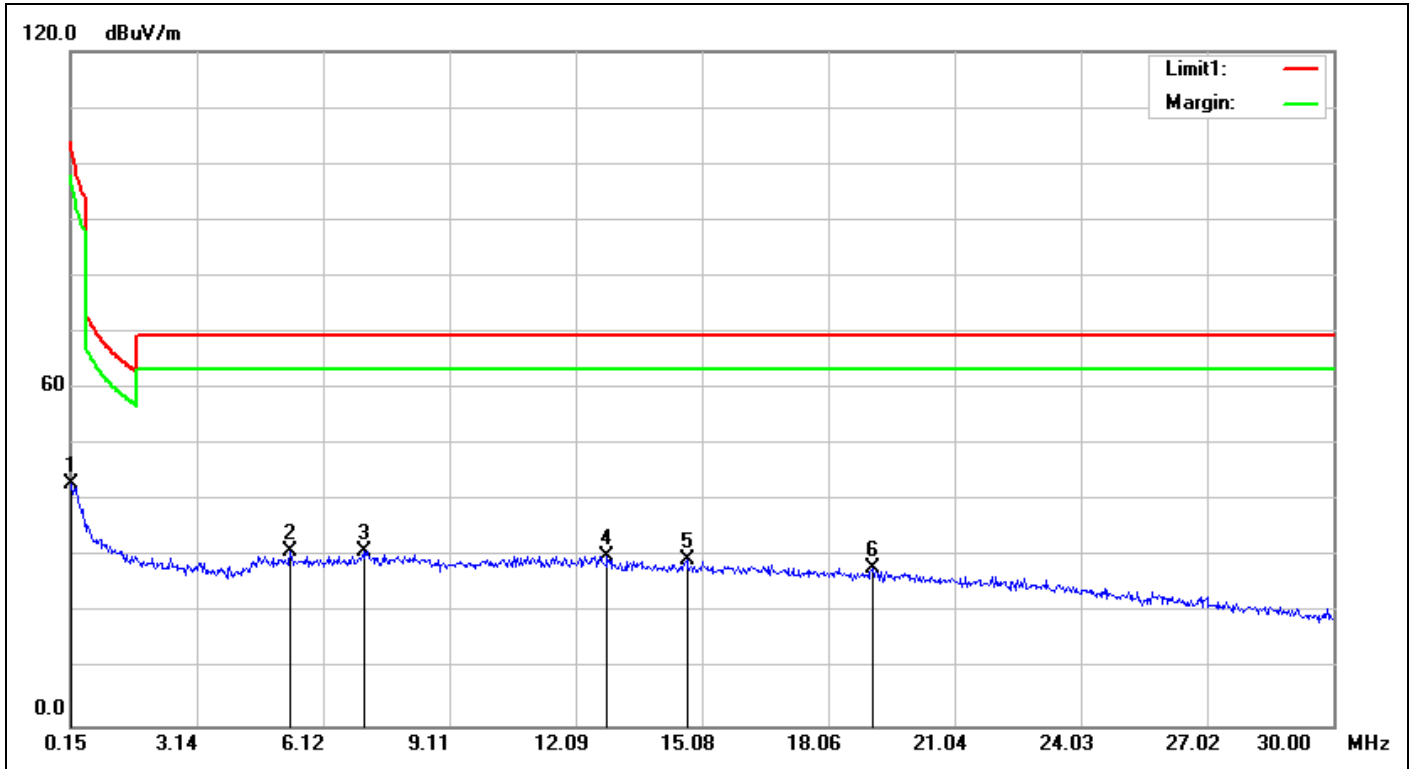
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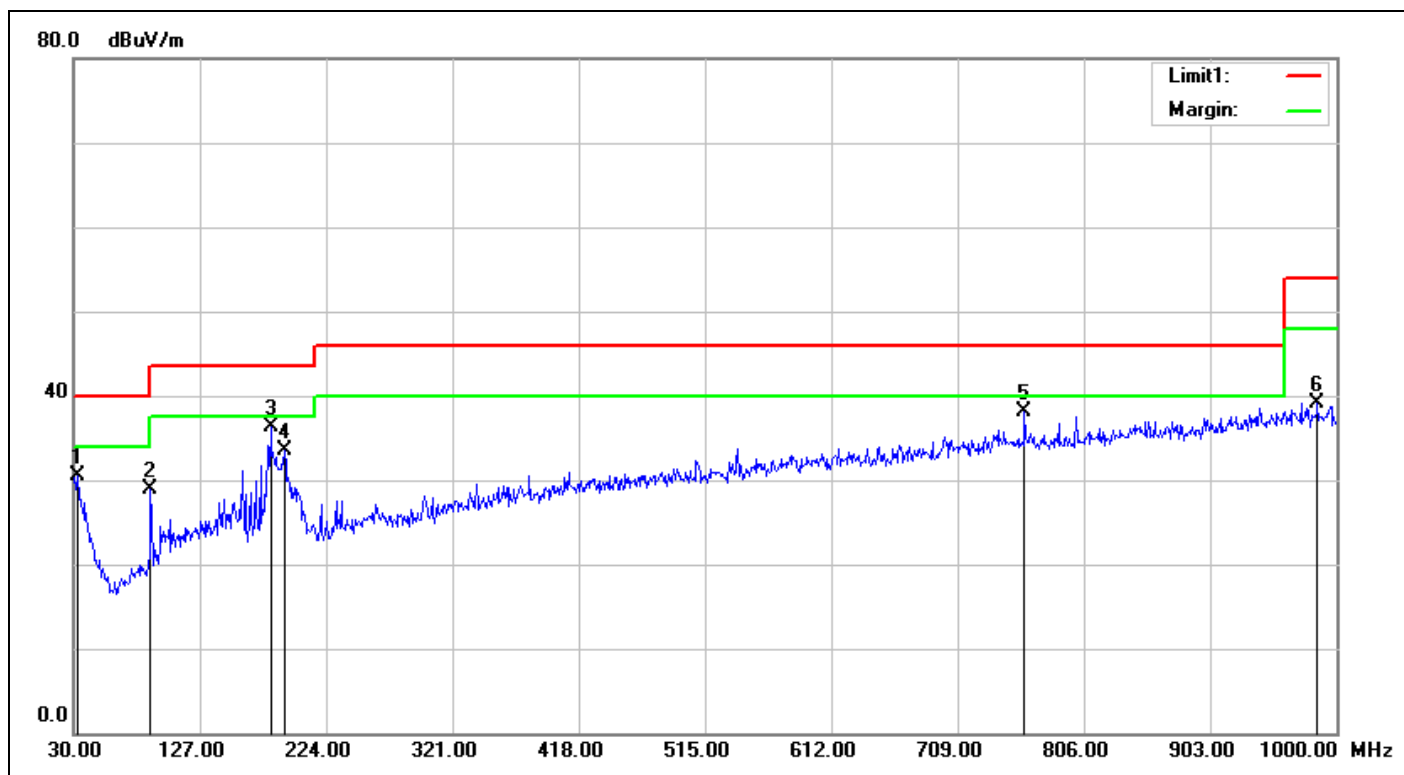
Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/23 14:47:38
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%):	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0095	19.73	32.62	52.35	128.03	-75.68	QP	100	59	
2	0.0192	20.02	27.24	47.26	121.92	-74.66	QP	100	67	
3	0.0477	19.51	23.52	43.03	114.02	-70.99	QP	100	114	
4	0.0597	19.37	16.60	35.97	112.07	-76.10	QP	100	226	
5	0.1040	19.13	12.47	31.60	107.26	-75.66	QP	100	56	
6	0.1495	19.08	13.59	32.67	104.11	-71.44	QP	100	128	



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/23 14:51:10
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1798	19.06	24.09	43.15	102.50	-59.35	QP	100	29	
2	5.3439	19.79	11.18	30.97	69.50	-38.53	QP	100	161	
3	7.1050	19.96	11.06	31.02	69.50	-38.48	QP	100	241	
4	12.8362	20.72	9.51	30.23	69.50	-39.27	QP	100	12	
5	14.7168	21.05	8.39	29.44	69.50	-40.06	QP	100	167	
6	19.1047	21.83	6.23	28.06	69.50	-41.44	QP	100	285	



Service No.: 114069439

Test Standard: NCC Class B 3M Radiation

Test item: Radiation Emission

Applicant: CUBTEK. INC.

Product: 24GHz BSD Radar

Model No.: VS-91A001

Test Mode: TX

Remark:

Test Distance: 3m

Ant. Polarization: Horizontal

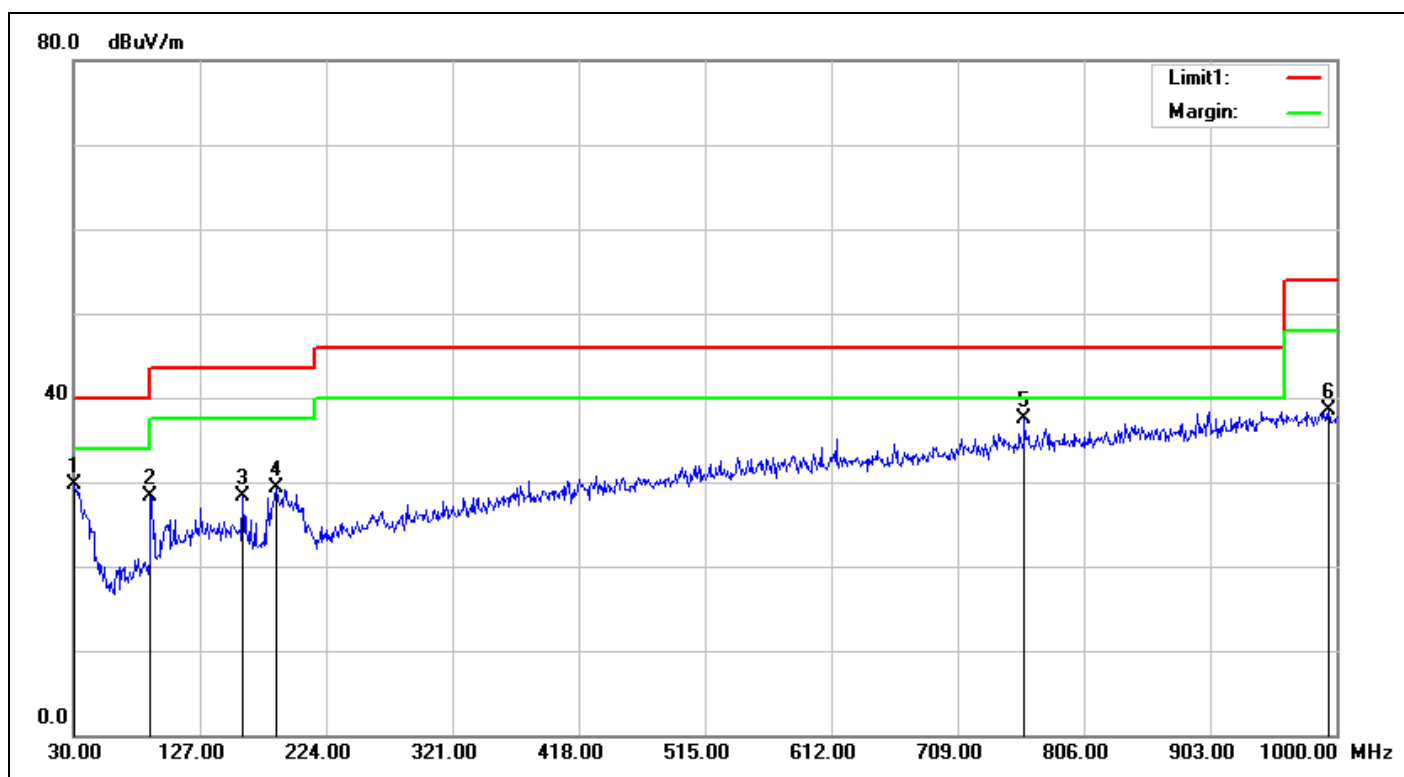
Test Time: 2017/10/23 14:18:10

Test Rating: DC 12V

Temp.(°C)/Hum.(%): 24.2(°C)/52%

Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	32.9099	-1.91	32.38	30.47	40.00	-9.53	QP	100	9	
2	89.1700	-11.05	39.90	28.85	43.50	-14.65	QP	100	118	
3	181.3200	-9.62	45.99	36.37	43.50	-7.13	QP	100	180	
4	191.9900	-9.42	42.86	33.44	43.50	-10.06	QP	100	244	
5	760.4100	2.45	35.58	38.03	46.00	-7.97	QP	100	358	
6	985.4500	5.66	33.52	39.18	54.00	-14.82	QP	100	30	



Service No.: 114069439

Test Standard: NCC Class B 3M Radiation

Test item: Radiation Emission

Applicant: CUBTEK. INC.

Product: 24GHz BSD Radar

Model No.: VS-91A001

Test Mode: TX

Remark:

Test Distance: 3m

Ant. Polarization: Vertical

Test Time: 2017/10/23 14:19:14

Test Rating: DC 12V

Temp.(°C)/Hum.(%): 24.2(°C)/52%

Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.79	30.57	29.78	40.00	-10.22	QP	100	160	
2	89.1700	-11.05	39.38	28.33	43.50	-15.17	QP	100	294	
3	159.9800	-8.07	36.46	28.39	43.50	-15.11	QP	100	196	
4	185.2000	-9.59	38.84	29.25	43.50	-14.25	QP	100	346	
5	760.4100	2.45	35.03	37.48	46.00	-8.52	QP	100	76	
6	994.1800	5.70	32.82	38.52	54.00	-15.48	QP	100	212	

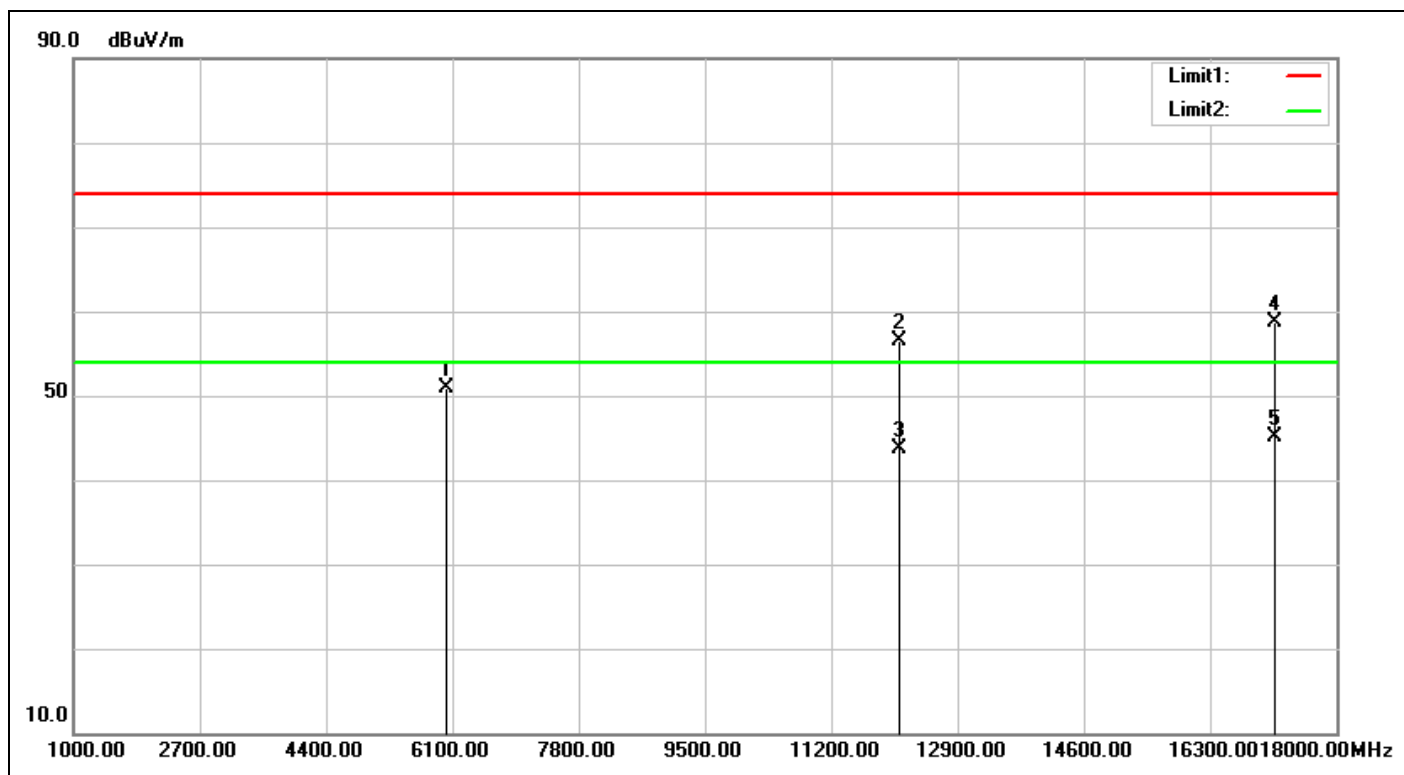
Spurious Emissions, TX Mode, 1-18G



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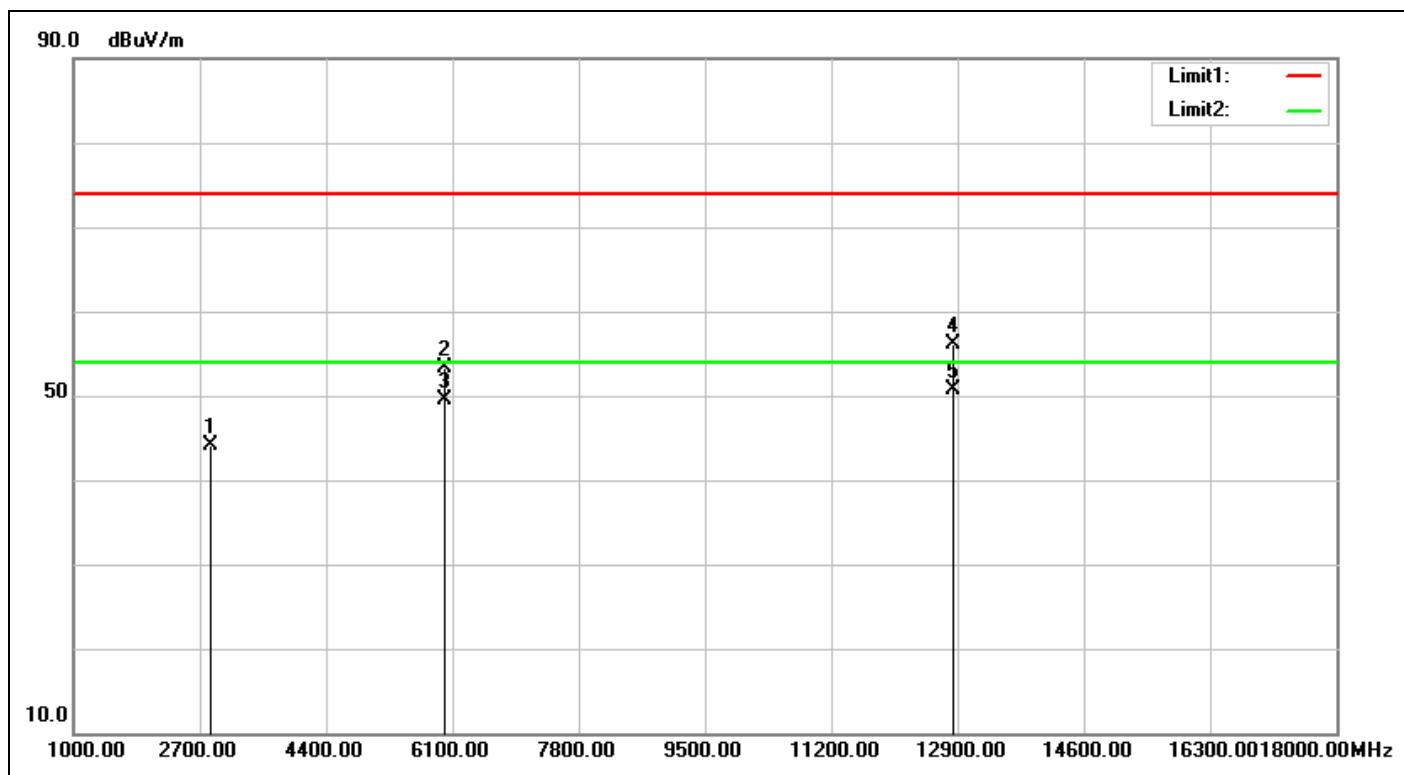
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/23 15:14:24
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52 %
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	6015.000	2.44	48.55	50.99	74.00	-23.01	peak	100	321	
2	12118.000	5.98	50.57	56.55	74.00	-17.45	peak	100	269	
3	12118.000	5.98	37.69	43.67	54.00	-10.33	AVG	100	269	
4	17167.000	13.54	45.23	58.77	74.00	-15.23	peak	100	244	
5	17167.000	13.54	31.58	45.12	54.00	-8.88	AVG	100	244	



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/23 15:15:27
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2853.000	-7.43	51.47	44.04	74.00	-29.96	peak	100	221	
2	6000.000	2.38	50.97	53.35	74.00	-20.65	peak	100	227	
3	6000.000	2.38	47.09	49.47	54.00	-4.53	AVG	100	227	
4	12849.000	8.41	47.79	56.20	74.00	-17.80	peak	100	357	
5	12849.000	8.41	42.21	50.62	54.00	-3.38	AVG	100	357	

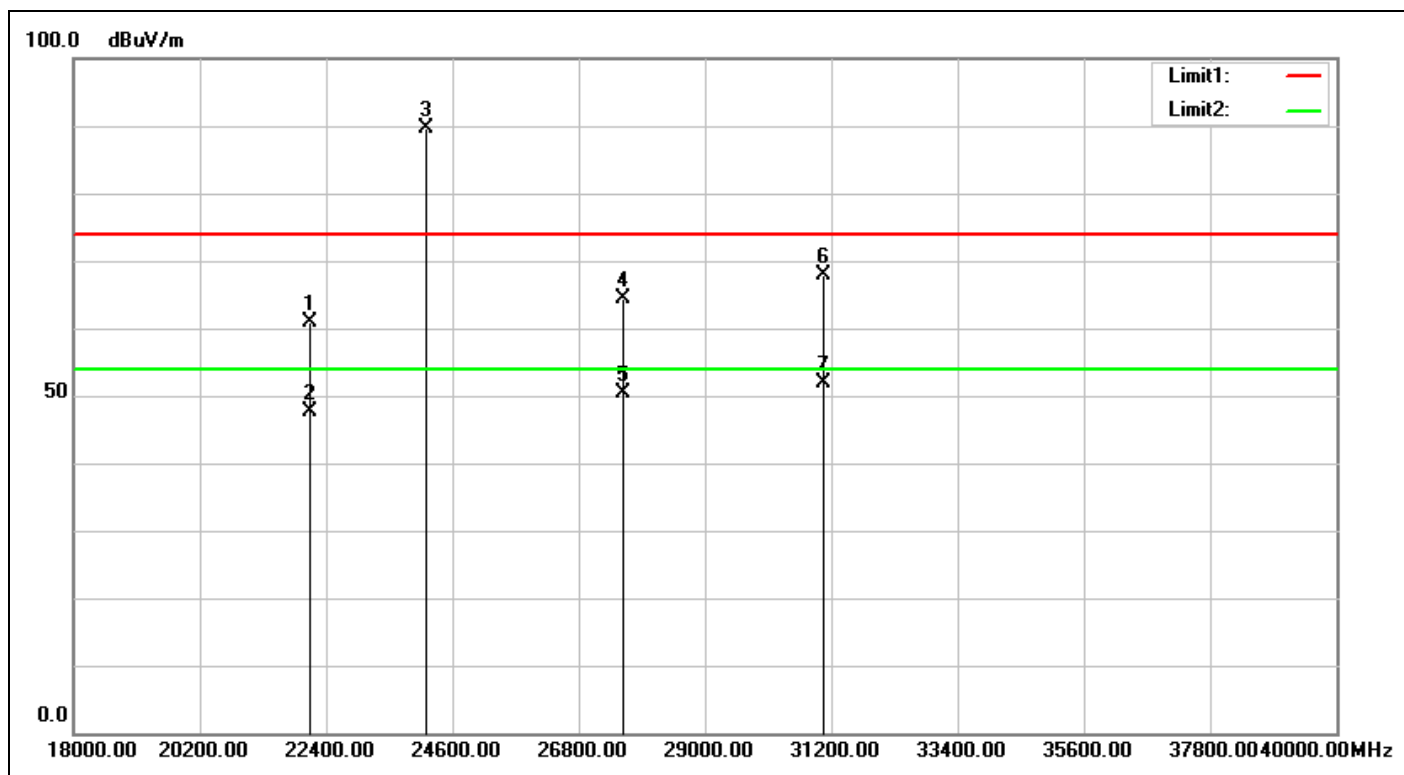
Spurious Emissions, TX Mode, 18-40G



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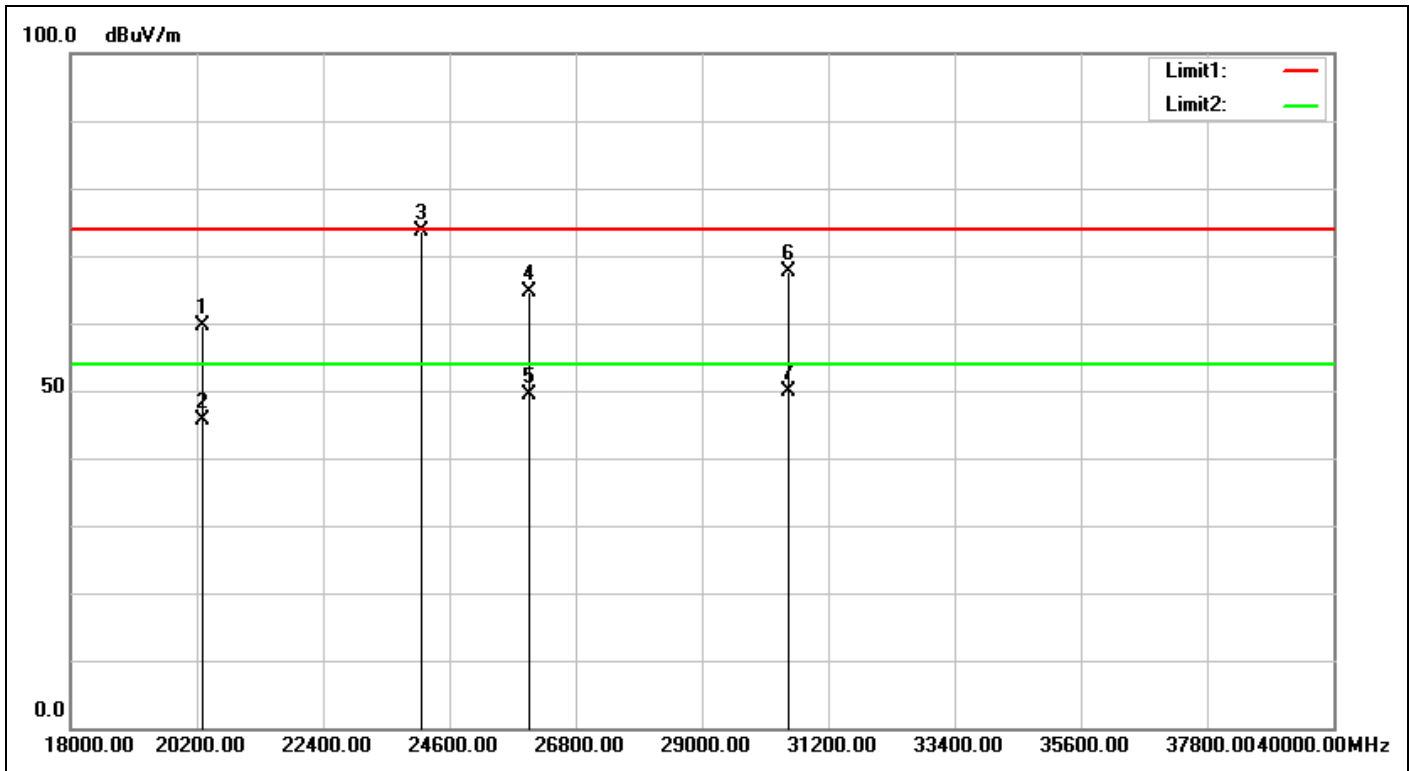
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Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/23 15:47:42
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%)	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22114.000	32.51	28.42	60.93	74.00	-13.07	peak	100	255	
2	22114.000	32.51	15.16	47.67	54.00	-6.33	AVG	100	255	
3	24125.000	31.82	57.82	89.64	74.00	15.64	peak	100	0	TX Band used
4	27570.000	36.01	28.30	64.31	74.00	-9.69	peak	100	306	
5	27570.000	36.01	14.30	50.31	54.00	-3.69	AVG	100	306	
6	31068.000	38.59	29.28	67.87	74.00	-6.13	peak	100	360	
7	31068.000	38.59	13.25	51.84	54.00	-2.16	AVG	100	360	



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/23 15:48:44
Applicant:	CUBTEK. INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%):	24.2(°C)/52 %
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20310.000	30.81	28.89	59.70	74.00	-14.30	peak	100	342	
2	20310.000	30.81	14.73	45.54	54.00	-8.46	AVG	100	342	
3	24125.000	31.82	41.85	73.67	74.00	-0.33	peak	100	28	TX Band used
4	25986.000	34.74	29.95	64.69	74.00	-9.31	peak	100	8	
5	25986.000	34.74	14.76	49.50	54.00	-4.50	AVG	100	8	
6	30496.000	37.88	29.83	67.71	74.00	-6.29	peak	100	171	
7	30496.000	37.88	11.93	49.81	54.00	-4.19	AVG	100	171	

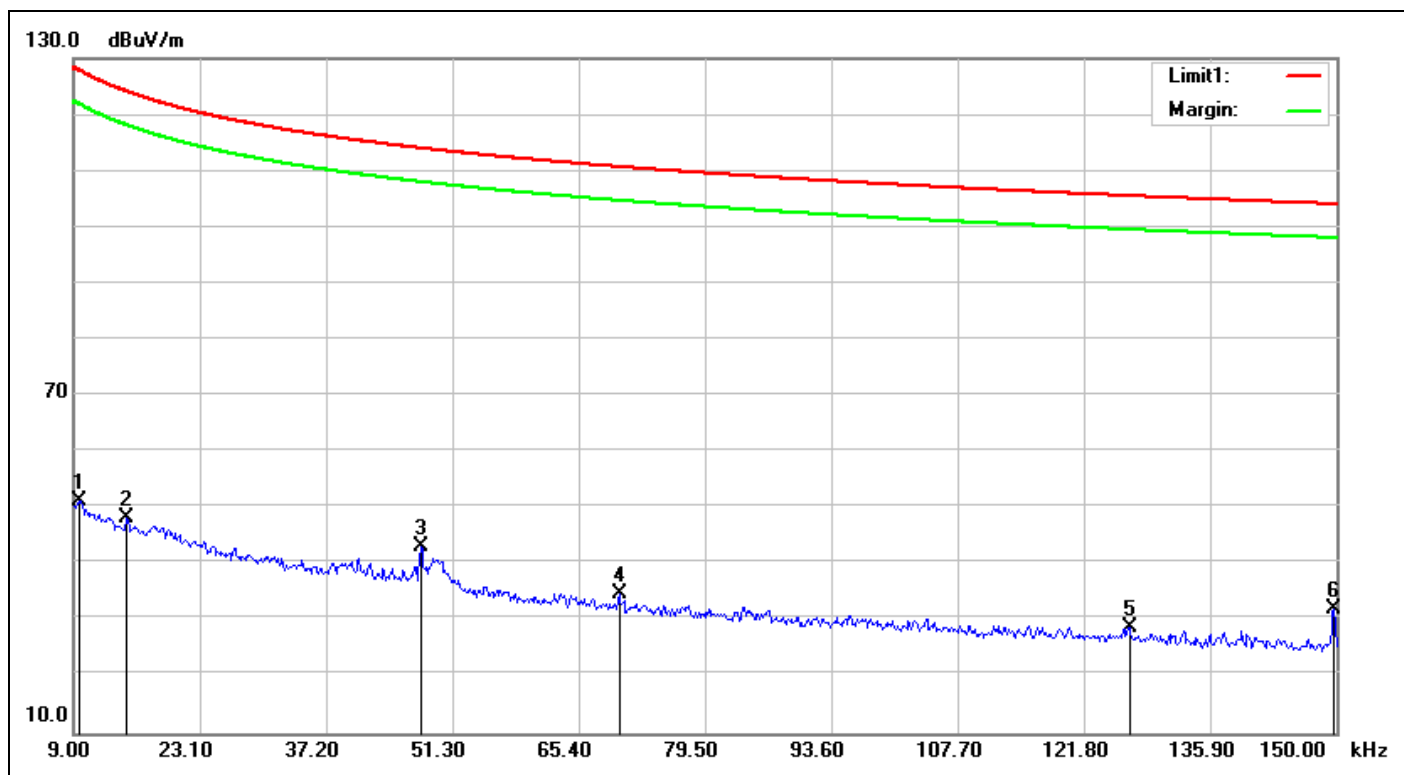
Spurious Emissions, RX Mode, 9k-1G



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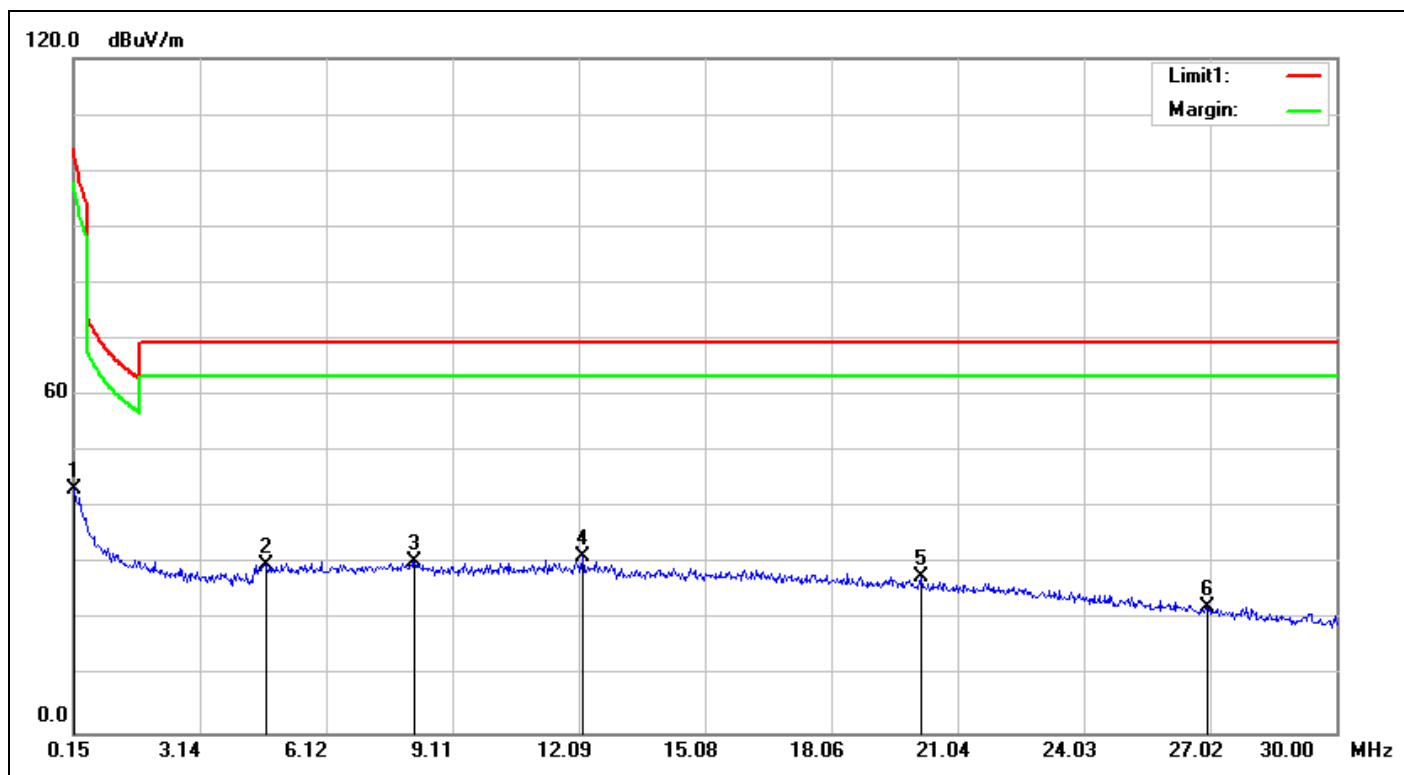
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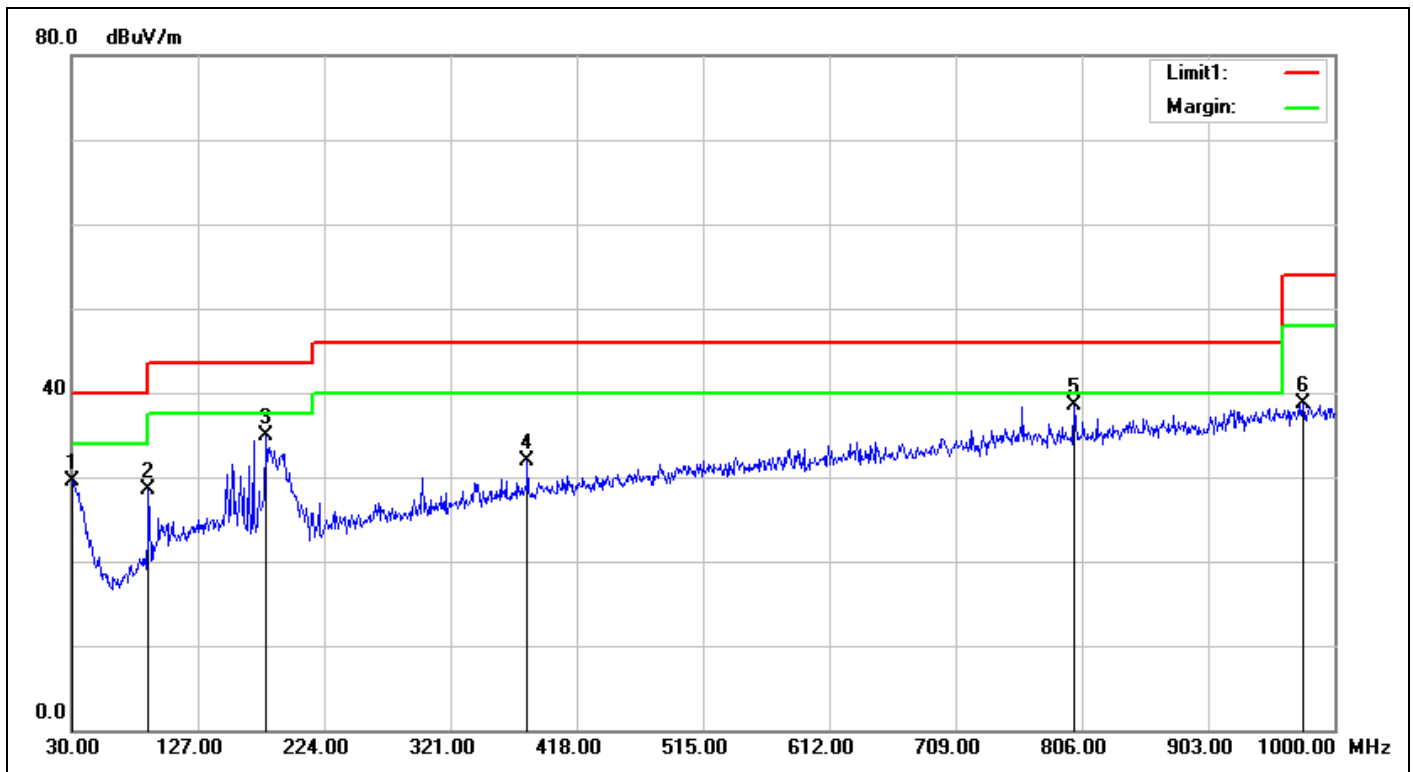
Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/23 14:48:42
Applicant:	CUBTEK INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%):	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0096	19.77	31.58	51.35	127.94	-76.59	QP	100	208	
2	0.0149	19.98	28.27	48.25	124.12	-75.87	QP	100	341	
3	0.0478	19.51	23.71	43.22	114.00	-70.78	QP	100	128	
4	0.0699	19.31	15.31	34.62	110.71	-76.09	QP	100	157	
5	0.1269	19.10	9.68	28.78	105.53	-76.75	QP	100	341	
6	0.1497	19.08	12.86	31.94	104.09	-72.15	QP	100	303	



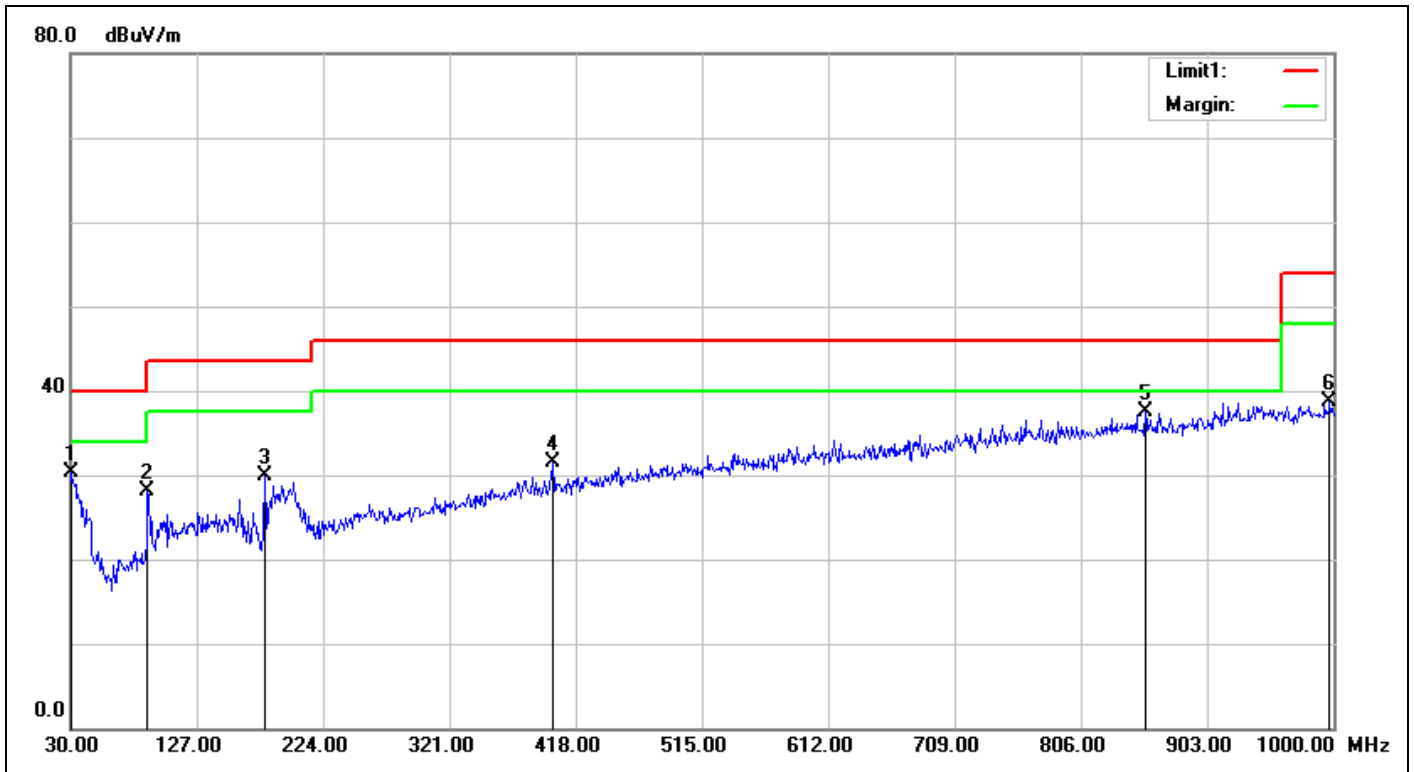
Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/10/23 14:52:14
Applicant:	CUBTEK INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	19.06	24.17	43.23	102.50	-59.27	QP	100	318	
2	4.6872	19.56	10.21	29.77	69.50	-39.73	QP	100	64	
3	8.2095	20.06	10.53	30.59	69.50	-38.91	QP	100	33	
4	12.1796	20.60	10.69	31.29	69.50	-38.21	QP	100	1	
5	20.1794	22.00	5.88	27.88	69.50	-41.62	QP	100	360	
6	26.9553	22.45	-0.04	22.41	69.50	-47.09	QP	100	288	



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/23 14:22:18
Applicant:	CUBTEK INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.79	30.25	29.46	40.00	-10.54	QP	100	90	
2	89.1700	-11.05	39.54	28.49	43.50	-15.01	QP	100	250	
3	179.3800	-9.59	44.41	34.82	43.50	-8.68	QP	100	139	
4	380.1700	-2.80	34.68	31.88	46.00	-14.12	QP	100	250	
5	800.1799	2.77	35.73	38.50	46.00	-7.50	QP	100	324	
6	975.7500	5.62	32.99	38.61	54.00	-15.39	QP	100	153	



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/23 14:23:22
Applicant:	CUBTEK INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	RX		
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	30.57	30.32	40.00	-9.68	QP	100	332	
2	89.1700	-11.05	39.07	28.02	43.50	-15.48	QP	100	338	
3	179.3800	-9.59	39.53	29.94	43.50	-13.56	QP	100	346	
4	400.5400	-2.42	33.87	31.45	46.00	-14.55	QP	100	37	
5	855.4700	3.75	33.74	37.49	46.00	-8.51	QP	100	152	
6	997.0900	5.72	33.01	38.73	54.00	-15.27	QP	100	84	

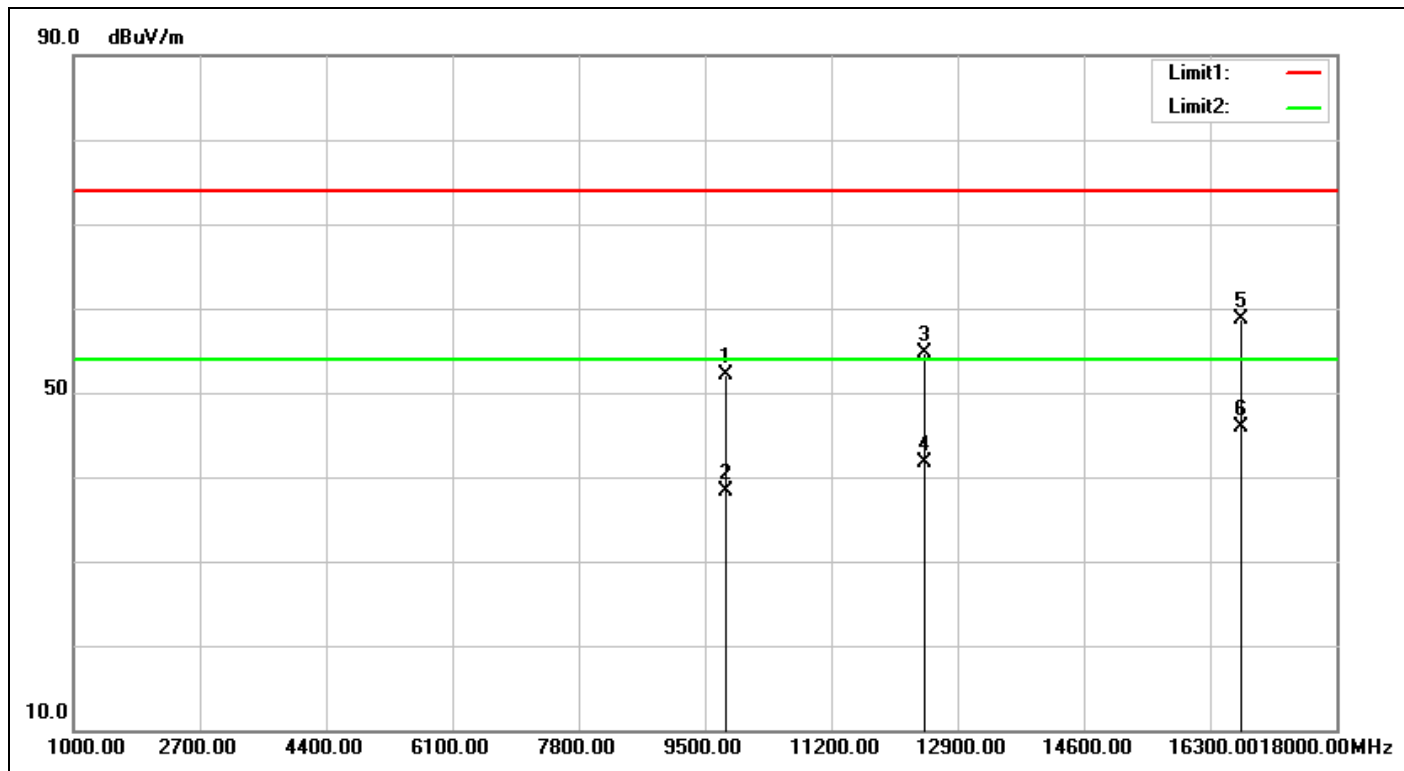
Spurious Emissions, RX Mode, 1-18G



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.: 114069439

Test Standard: NCC Above 1G PEAK

Test item: Radiation Emission

Applicant: CUBTEK INC.

Product: 24GHz BSD Radar

Model No.: VS-91A001

Test Mode: RX

Remark:

Test Distance: 3m

Ant. Polarization: Horizontal

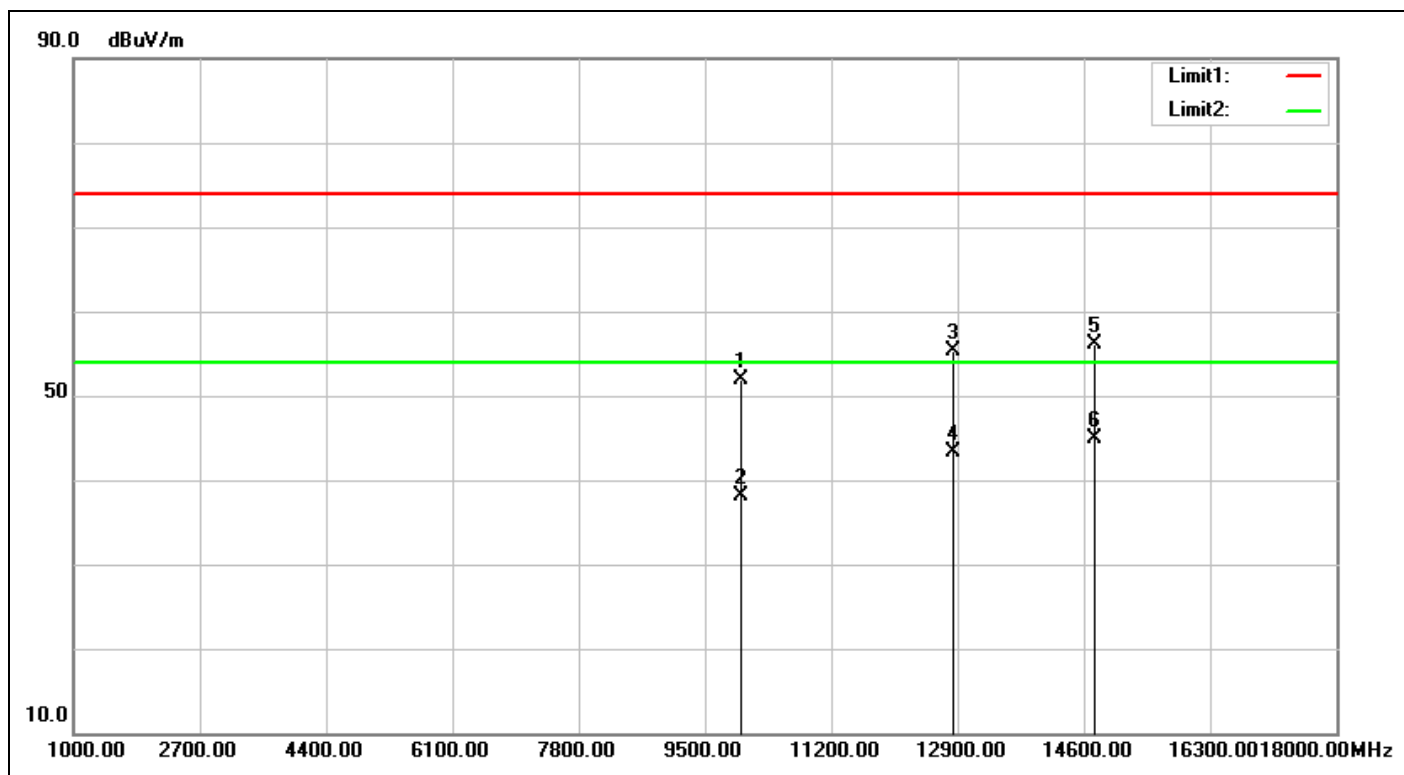
Test Time: 2017/10/23 15:26:41

Test Rating: DC 12V

Temp.(°C)/Hum.(%): 24.2(°C)/52%

Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	9789.000	5.04	47.13	52.17	74.00	-21.83	peak	100	359	
2	9789.000	5.04	33.34	38.38	54.00	-15.62	AVG	100	359	
3	12458.000	7.45	47.20	54.65	74.00	-19.35	peak	100	356	
4	12458.000	7.45	34.32	41.77	54.00	-12.23	AVG	100	356	
5	16725.000	13.87	44.88	58.75	74.00	-15.25	peak	100	163	
6	16725.000	13.87	31.94	45.81	54.00	-8.19	AVG	100	163	



Service No.: 114069439

Test Standard: NCC Above 1G PEAK

Test item: Radiation Emission

Applicant: CUBTEK INC.

Product: 24GHz BSD Radar

Model No.: VS-91A001

Test Mode: RX

Remark:

Test Distance: 3m

Ant. Polarization: Vertical

Test Time: 2017/10/23 15:27:44

Test Rating: DC 12V

Temp.(°C)/Hum.(%): 24.2(°C)/52%

Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	9993.000	4.69	47.15	51.84	74.00	-22.16	peak	100	114	
2	9993.000	4.69	33.43	38.12	54.00	-15.88	AVG	100	114	
3	12849.000	8.41	46.97	55.38	74.00	-18.62	peak	100	230	
4	12849.000	8.41	34.87	43.28	54.00	-10.72	AVG	100	230	
5	14753.000	8.96	47.24	56.20	74.00	-17.80	peak	100	186	
6	14753.000	8.96	35.95	44.91	54.00	-9.09	AVG	100	186	

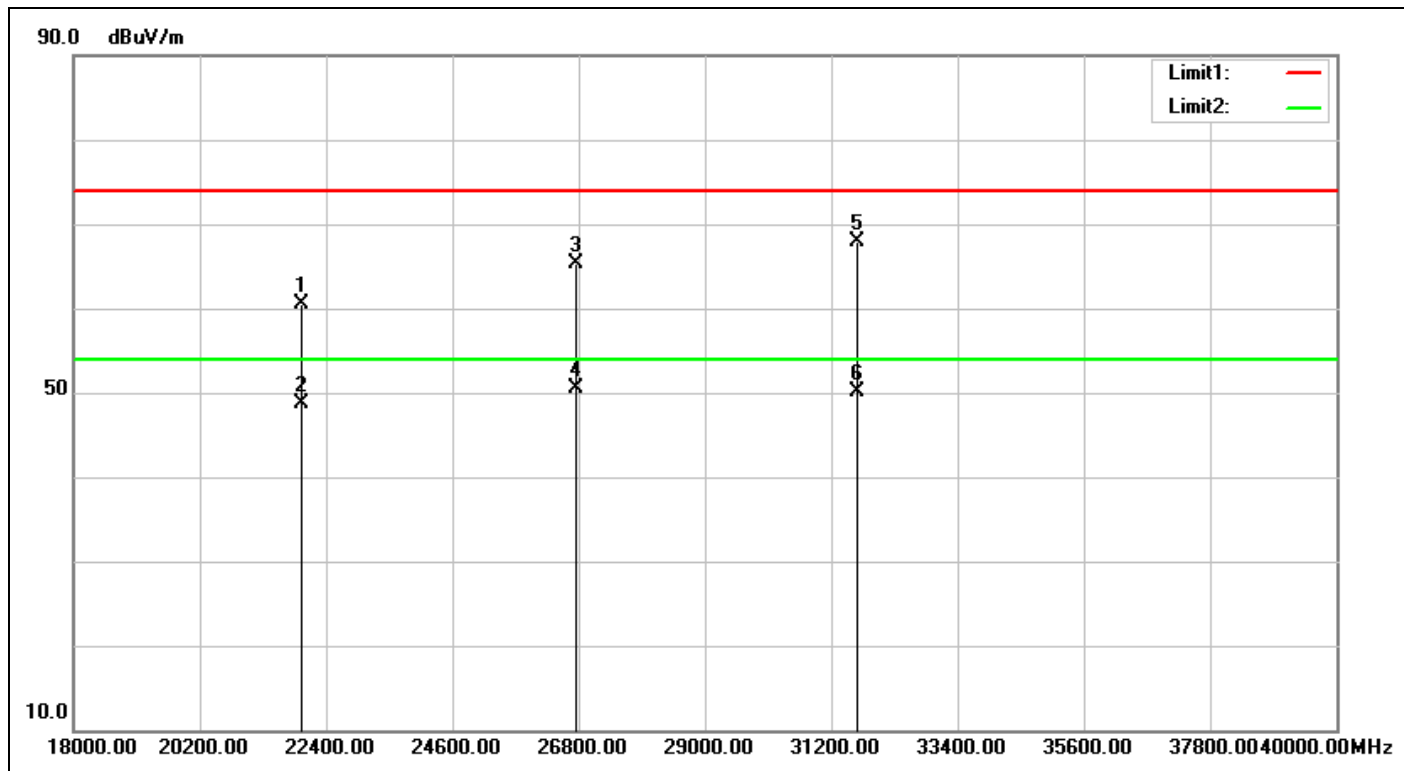
Spurious Emissions, RX Mode, 18-40G



TUV Rheinland Taiwan Ltd.

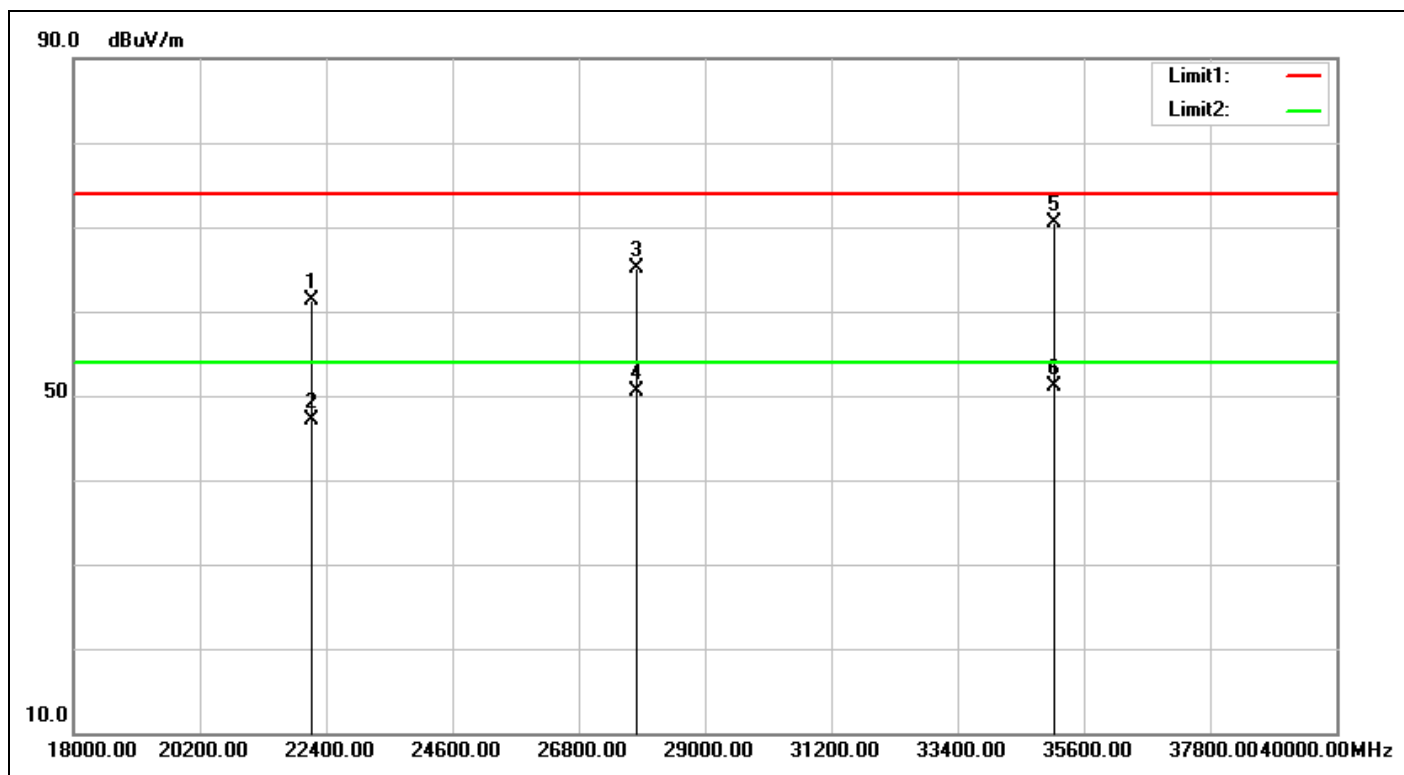
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/10/23 15:37:46
Applicant:	CUBTEK INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21982.000	32.56	28.03	60.59	74.00	-13.41	peak	100	329	
2	21982.000	32.56	16.05	48.61	54.00	-5.39	AVG	100	329	
3	26756.000	35.92	29.45	65.37	74.00	-8.63	peak	100	54	
4	26756.000	35.92	14.53	50.45	54.00	-3.55	AVG	100	54	
5	31640.000	38.21	29.71	67.92	74.00	-6.08	peak	100	5	
6	31640.000	38.21	11.82	50.03	54.00	-3.97	AVG	100	5	



Service No.:	114069439	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/10/23 15:38:49
Applicant:	CUBTEK INC.	Test Rating:	DC 12V
Product:	24GHz BSD Radar	Temp.(°C)/Hum.(%) :	24.2(°C)/52%
Model No.:	VS-91A001	Test Engineer:	George Yang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22136.000	32.49	28.91	61.40	74.00	-12.60	peak	100	219	
2	22136.000	32.49	14.54	47.03	54.00	-6.97	AVG	100	219	
3	27812.000	35.89	29.13	65.02	74.00	-8.98	peak	100	15	
4	27812.000	35.89	14.63	50.52	54.00	-3.48	AVG	100	15	
5	35072.000	39.74	30.83	70.57	74.00	-3.43	peak	100	176	
6	35072.000	39.74	11.43	51.17	54.00	-2.83	AVG	100	176	

Keysight Spectrum Analyzer - Swept SA

EXT MIXER SIG ID +I CORREC SENSE:INT ALIGN AUTO 12:30:09 PM Oct 19, 2017

Marker 1 45.190000000000 GHz

PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 77/100

IFGain: High

TRACE 1 2 3 4 5 6
TYPE M
DET P

**Mkr1 45.19 GHz
60.177 dBμV**

10 dB/div Log

Ref 86.99 dBμV

67.96 dBμV

1

Start 40.000 GHz Stop 50.000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.667 ms (1001 pts)

MSG STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr → CF

Mkr → Ref Lvl

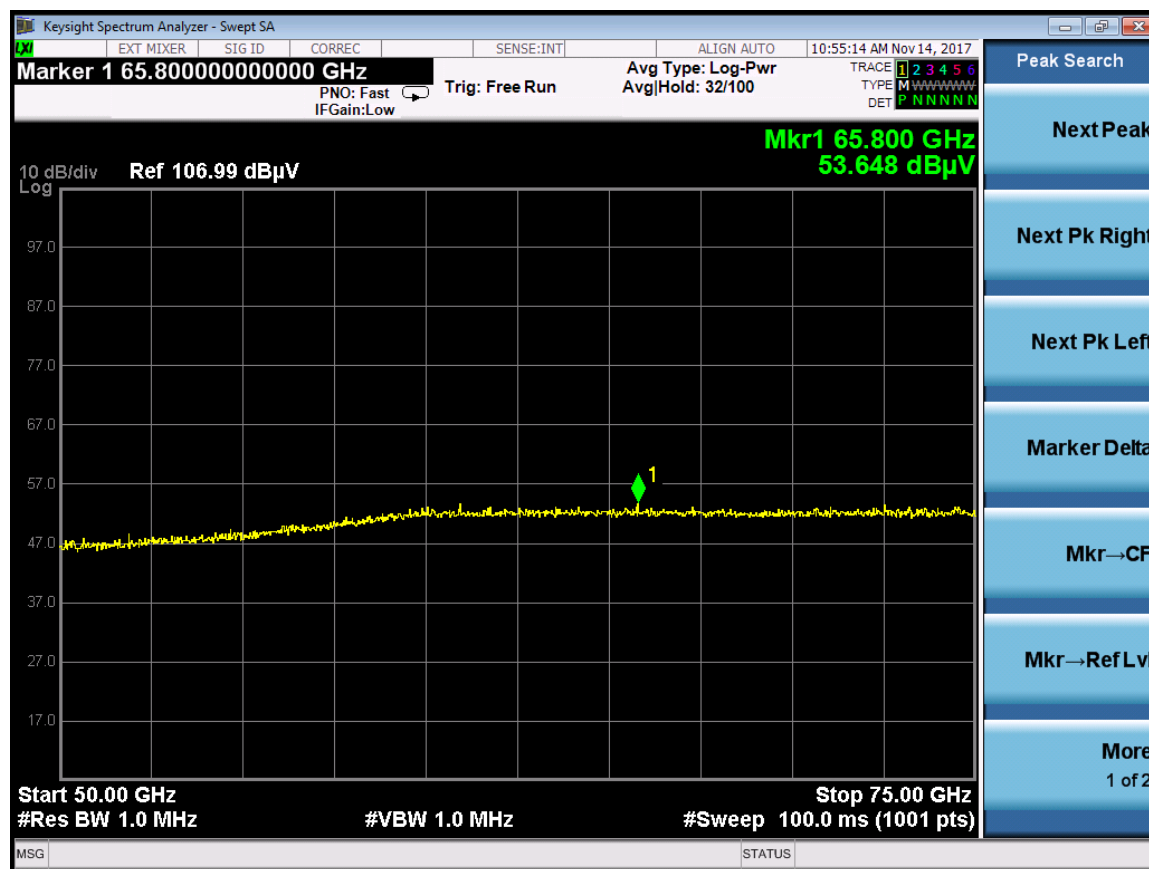
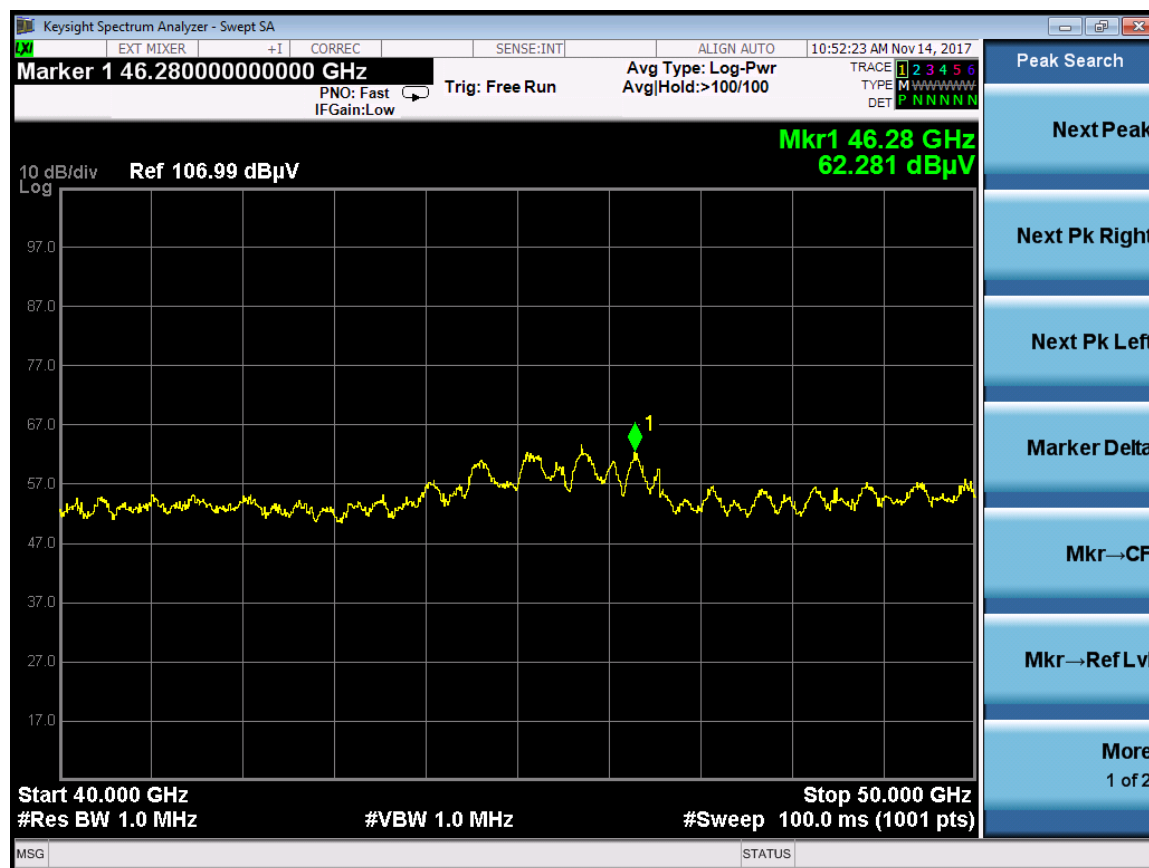
More

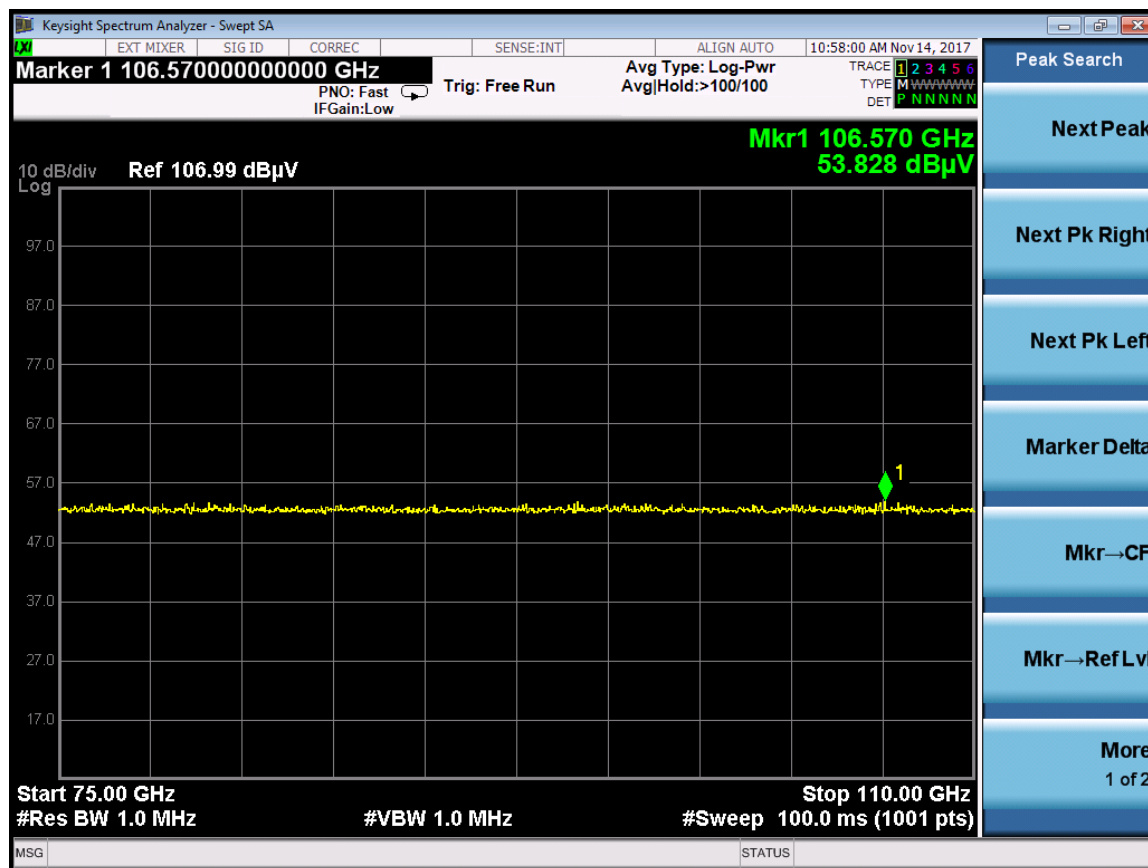
1 of 2





Spurious Emissions, RX Mode, 40-110G





Limit: 74dBuV