

Test Report No.50072506 001

Appendix D: Radiated and Mains Spurious Emission Data

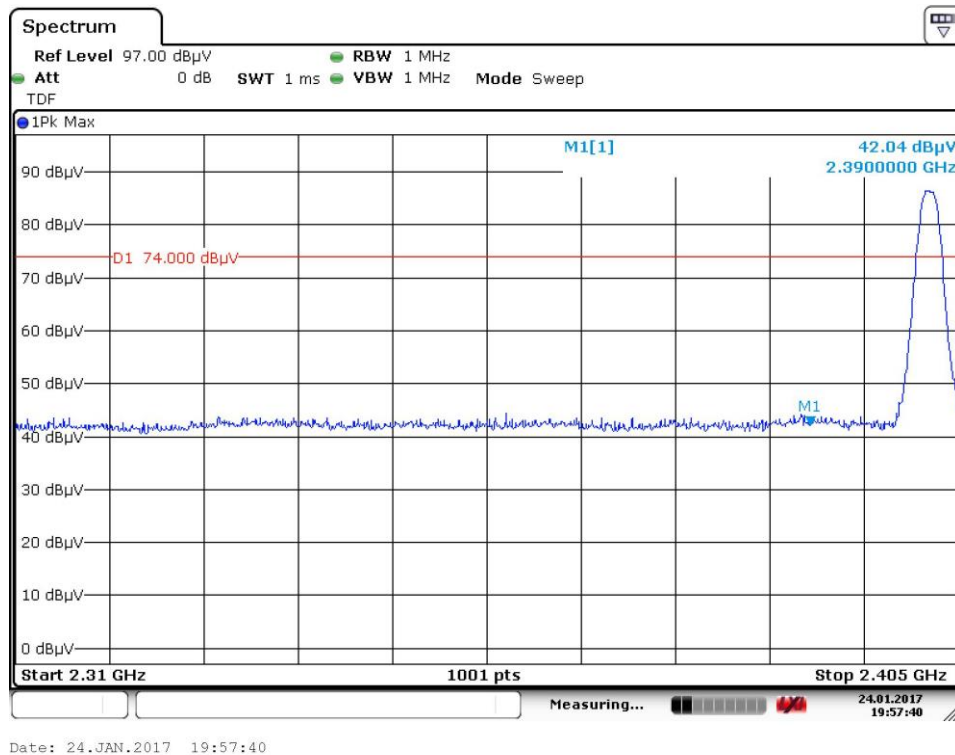
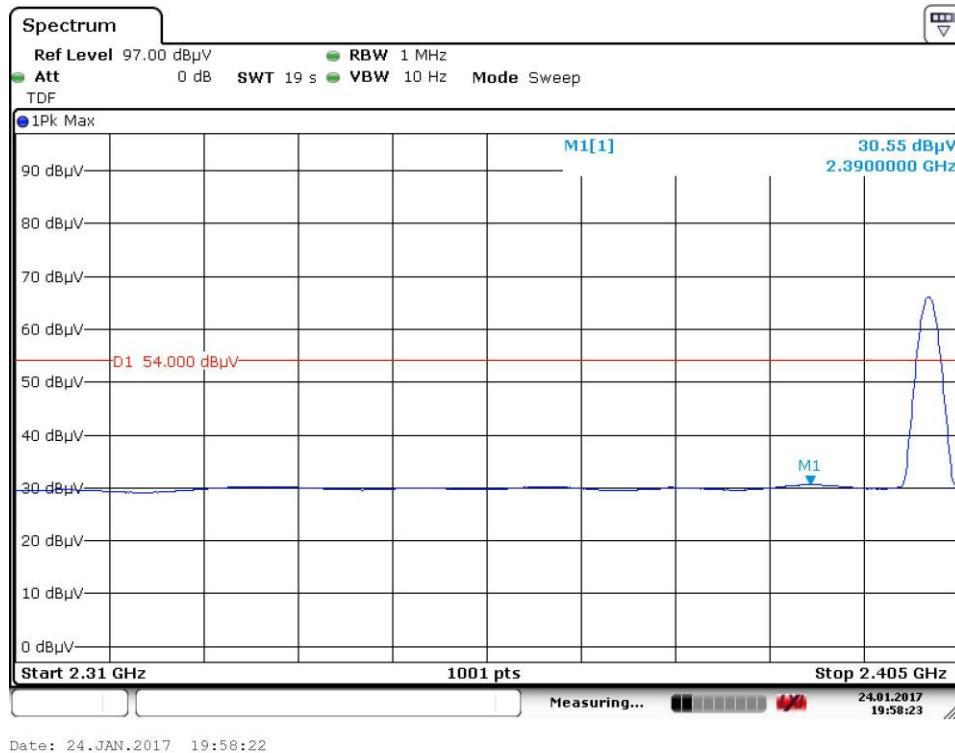
(File: 50072506AppendixD)

Contents

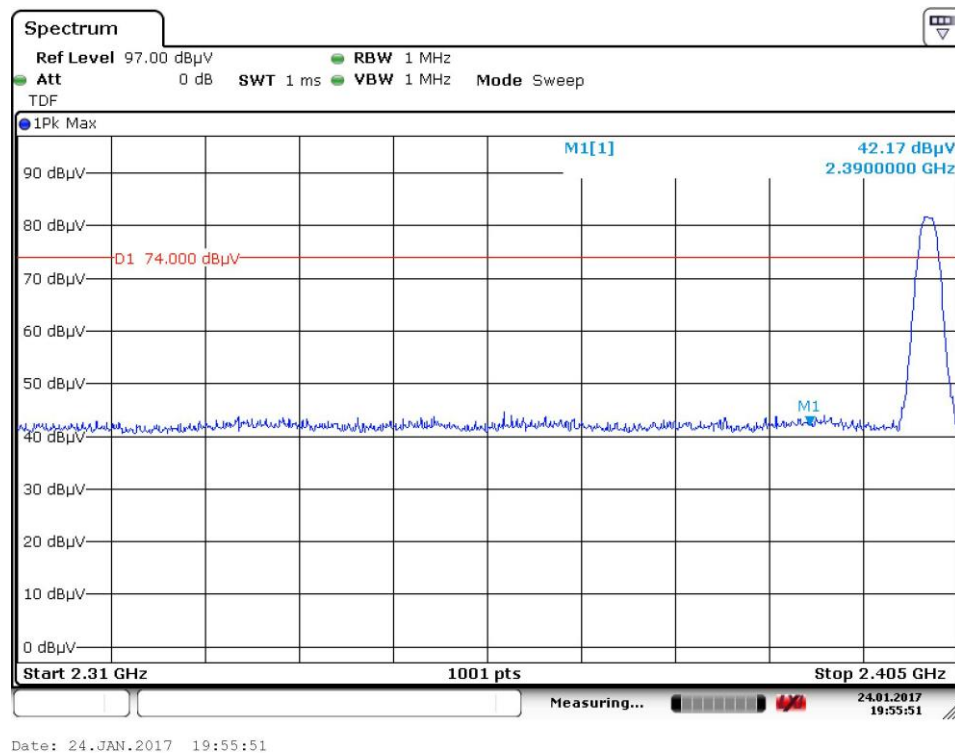
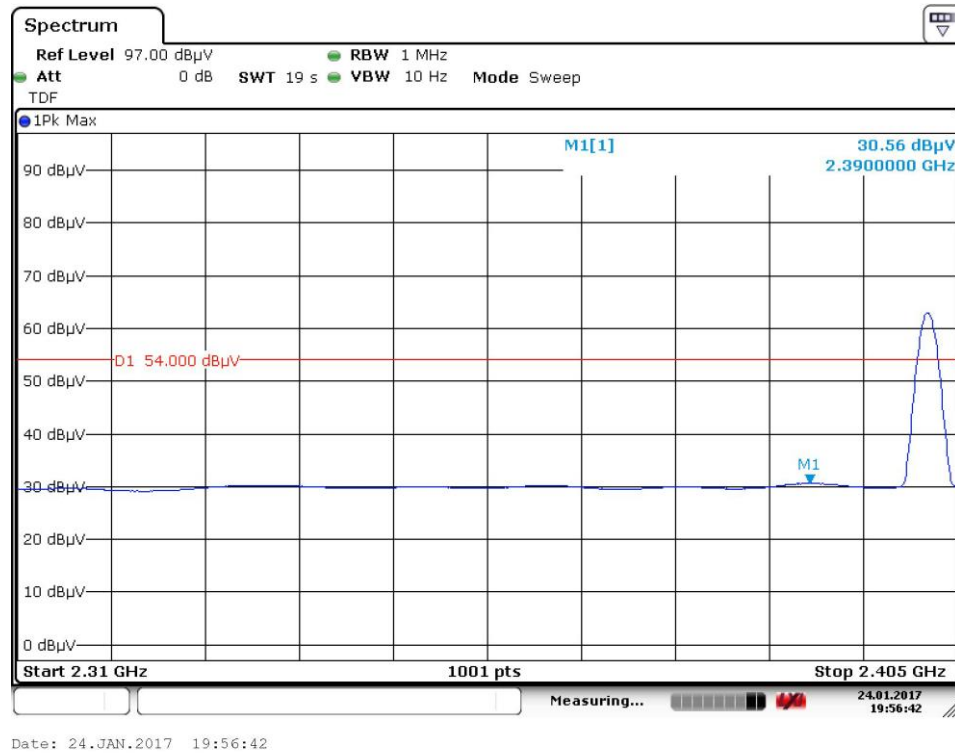
Spurious Emissions, Band Edges, 2.35-2.5G	2
Spurious Emissions, TX Mode, 1-18G.....	6
Spurious Emissions, TX Mode, 18-26G.....	12
Spurious Emissions, TX Mode, 30M-1G	18
Spurious Emissions, Mains, 150kHz - 30MHz	20

Radiated Bandedge (GFSK)

Low Channel (Hor)

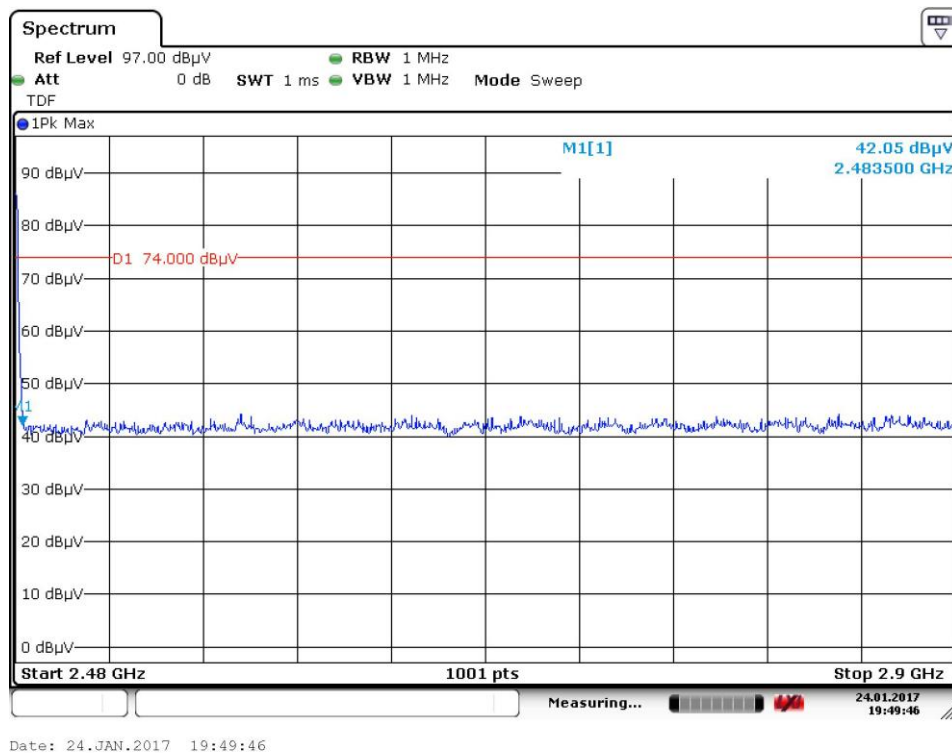
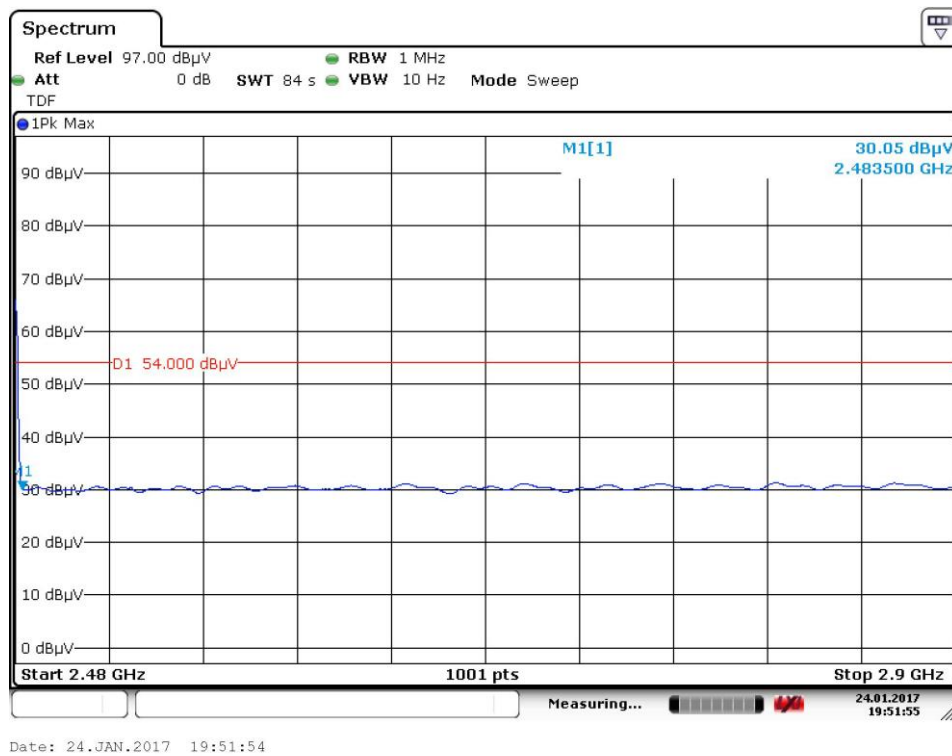


Low Channel (Ver)

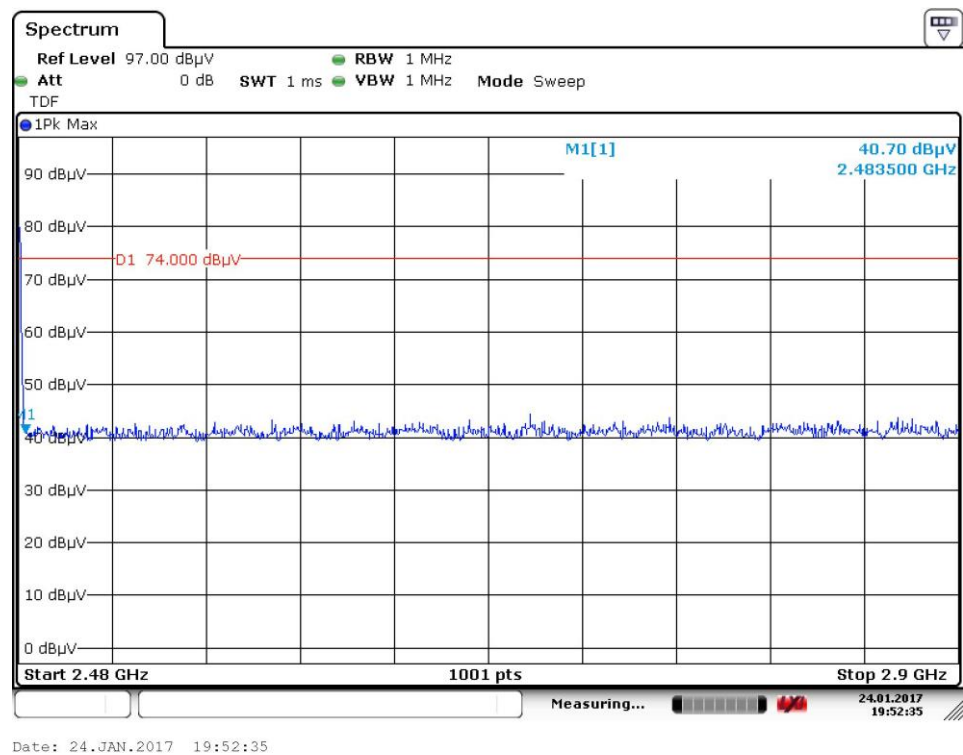
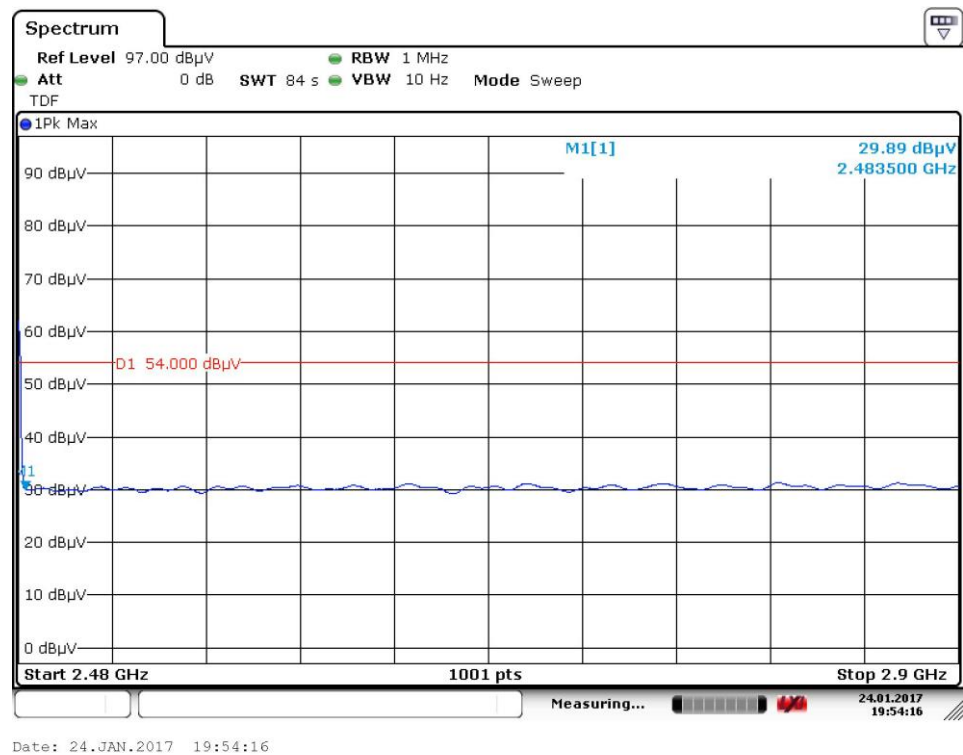


Radiated Bandedge (GFSK)

High Channel (Hor)



High Channel (Ver)



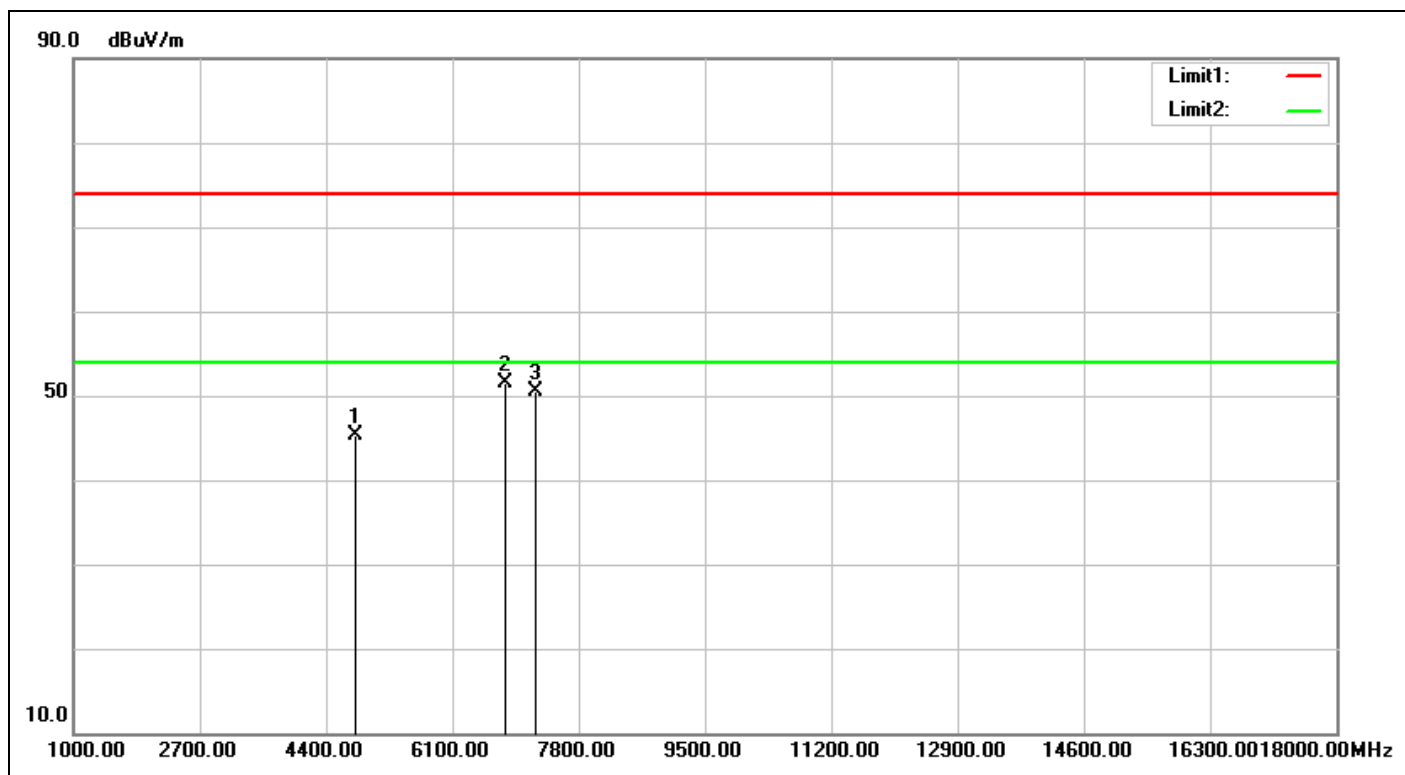
Spurious Emissions, TX Mode, 1-18G



TUV Taiwan

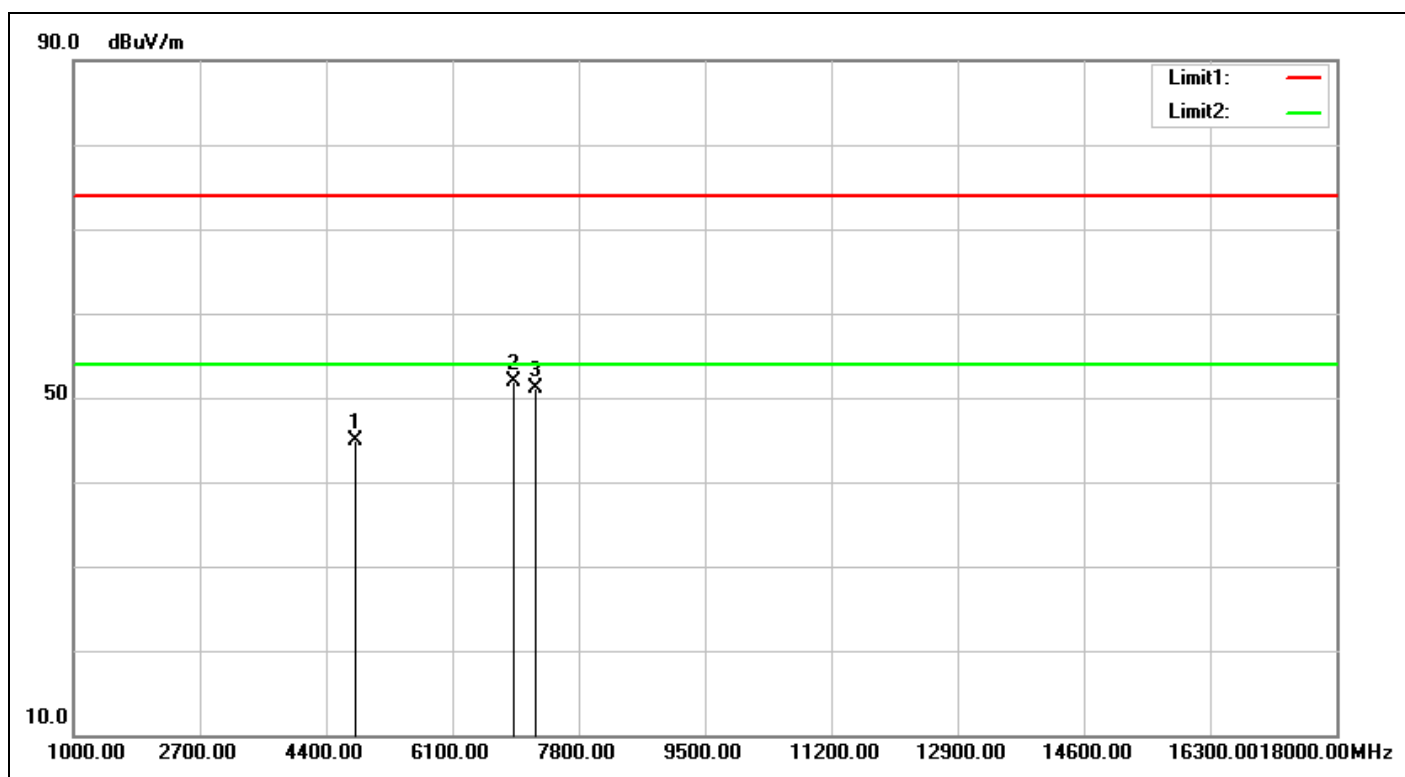
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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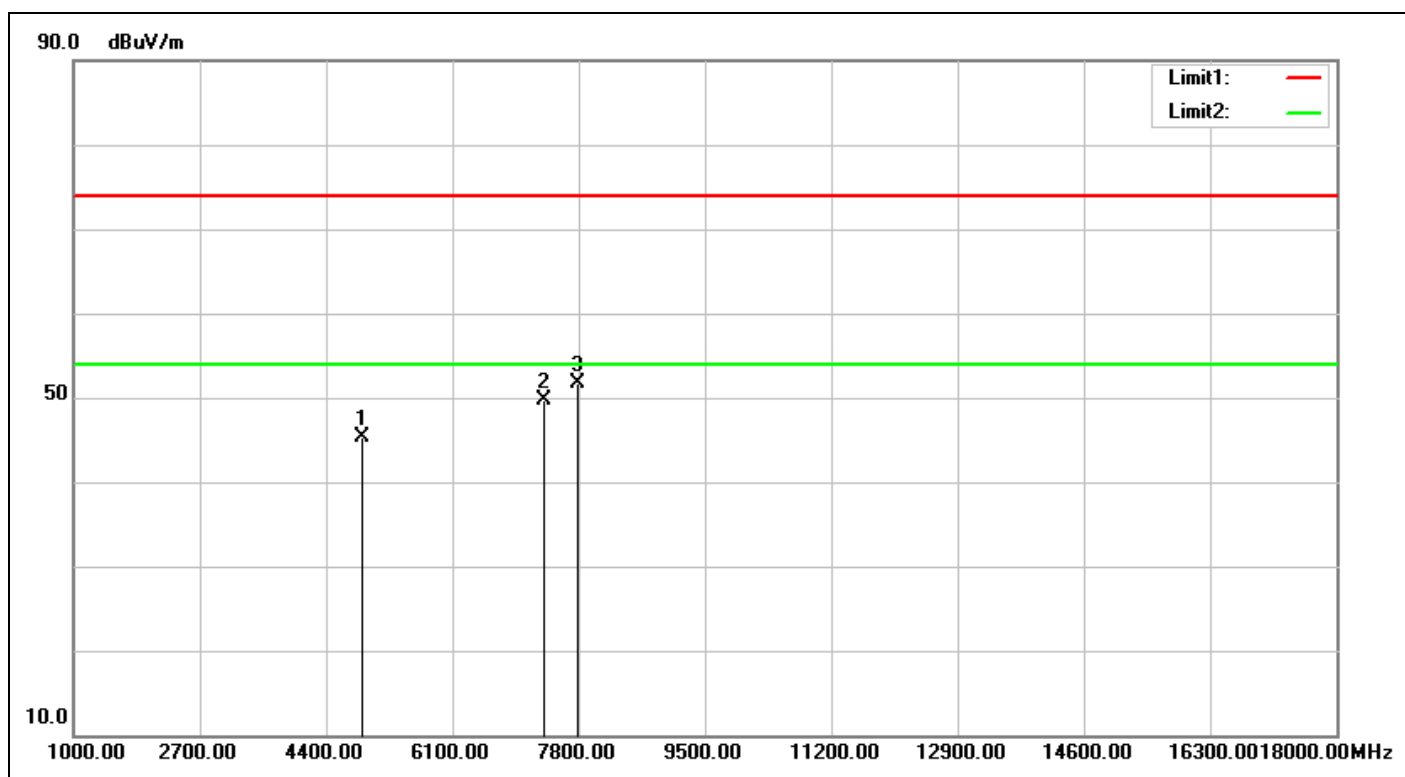
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 19:35:17
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.66	48.04	45.38	74.00	-28.62	peak			
2	6814.000	5.19	46.35	51.54	74.00	-22.46	peak	100	132	
3	7206.000	5.58	44.84	50.42	74.00	-23.58	peak			



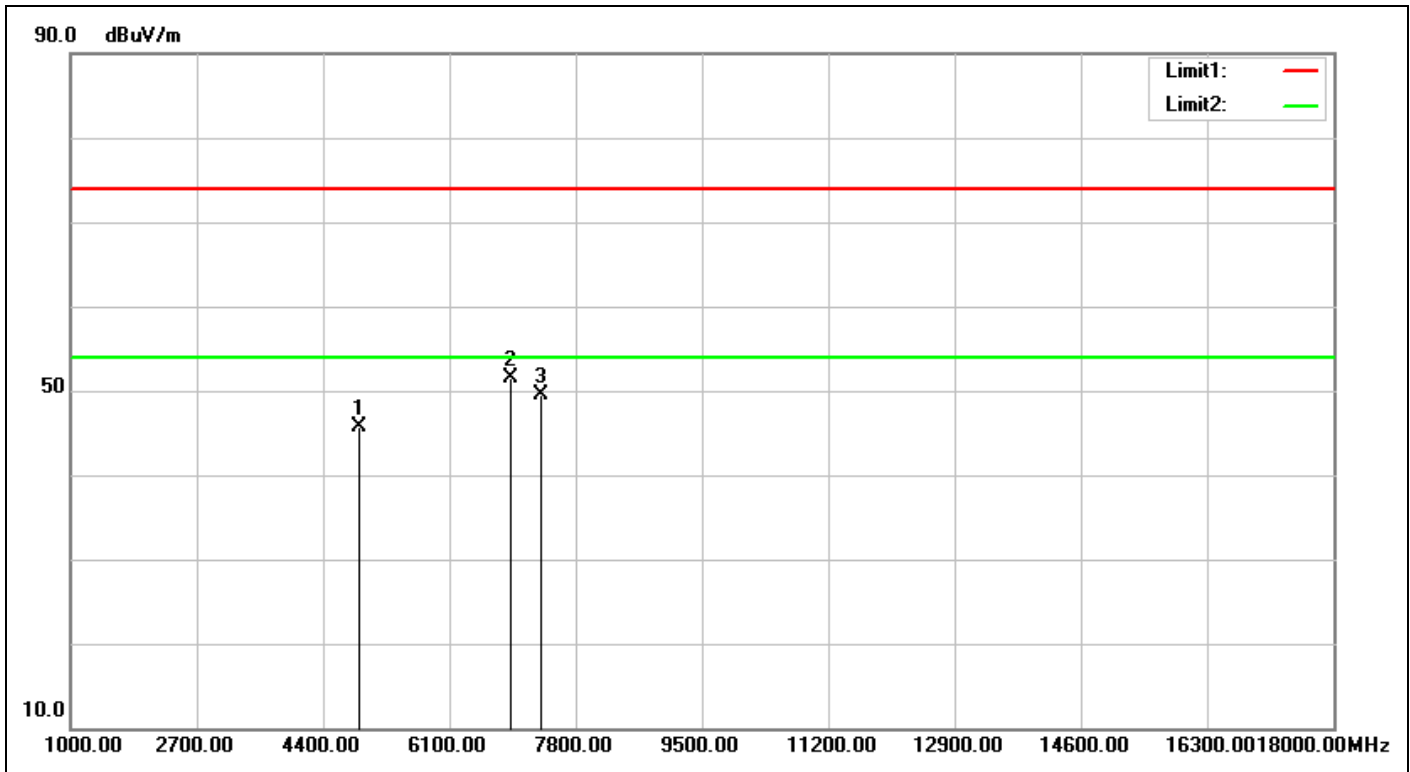
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 19:36:19
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.66	47.66	45.00	74.00	-29.00	peak			
2	6916.000	5.07	46.92	51.99	74.00	-22.01	peak	100	28	
3	7206.000	5.58	45.52	51.10	74.00	-22.90	peak			



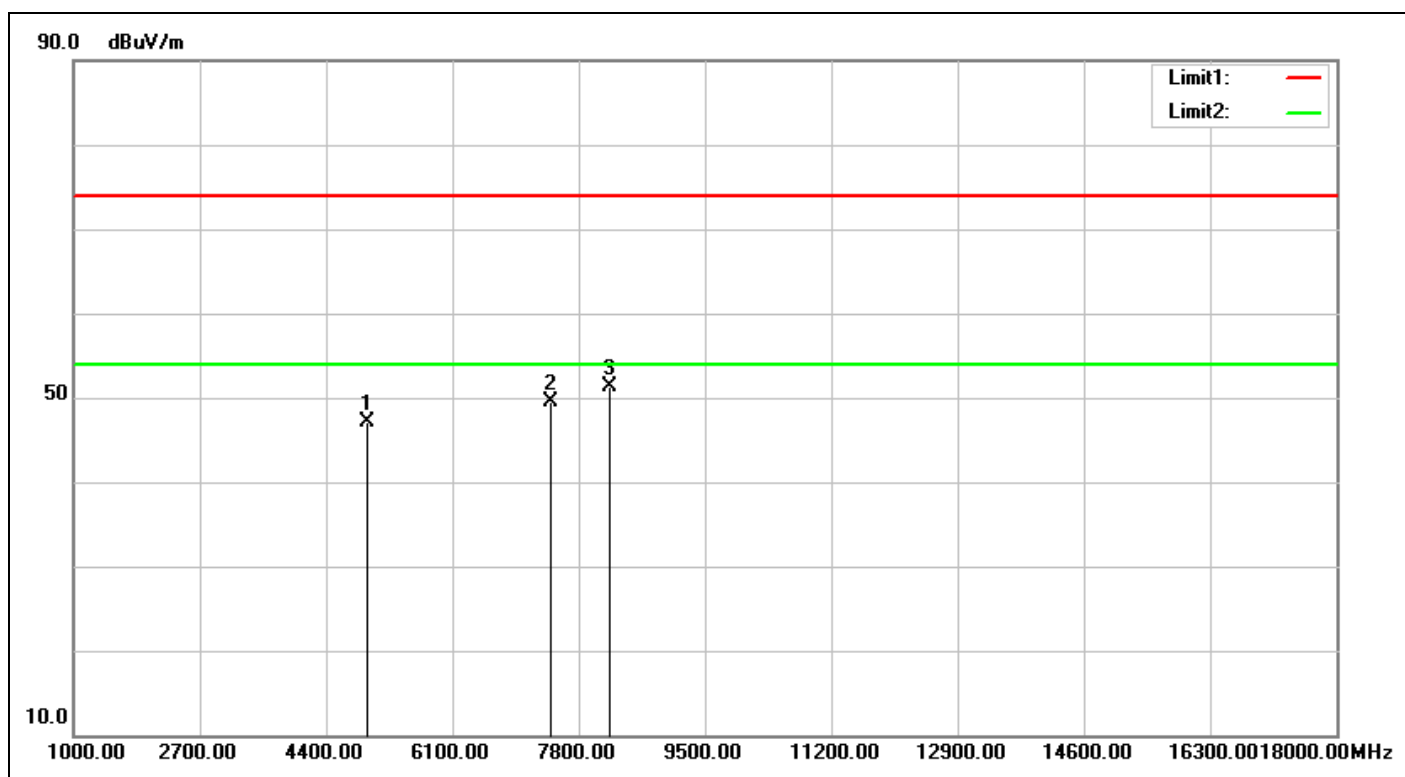
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 19:29:49
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.48	47.80	45.32	74.00	-28.68	peak			
2	7320.000	5.93	43.72	49.65	74.00	-24.35	peak			
3	7783.000	6.42	45.30	51.72	74.00	-22.28	peak	100	177	



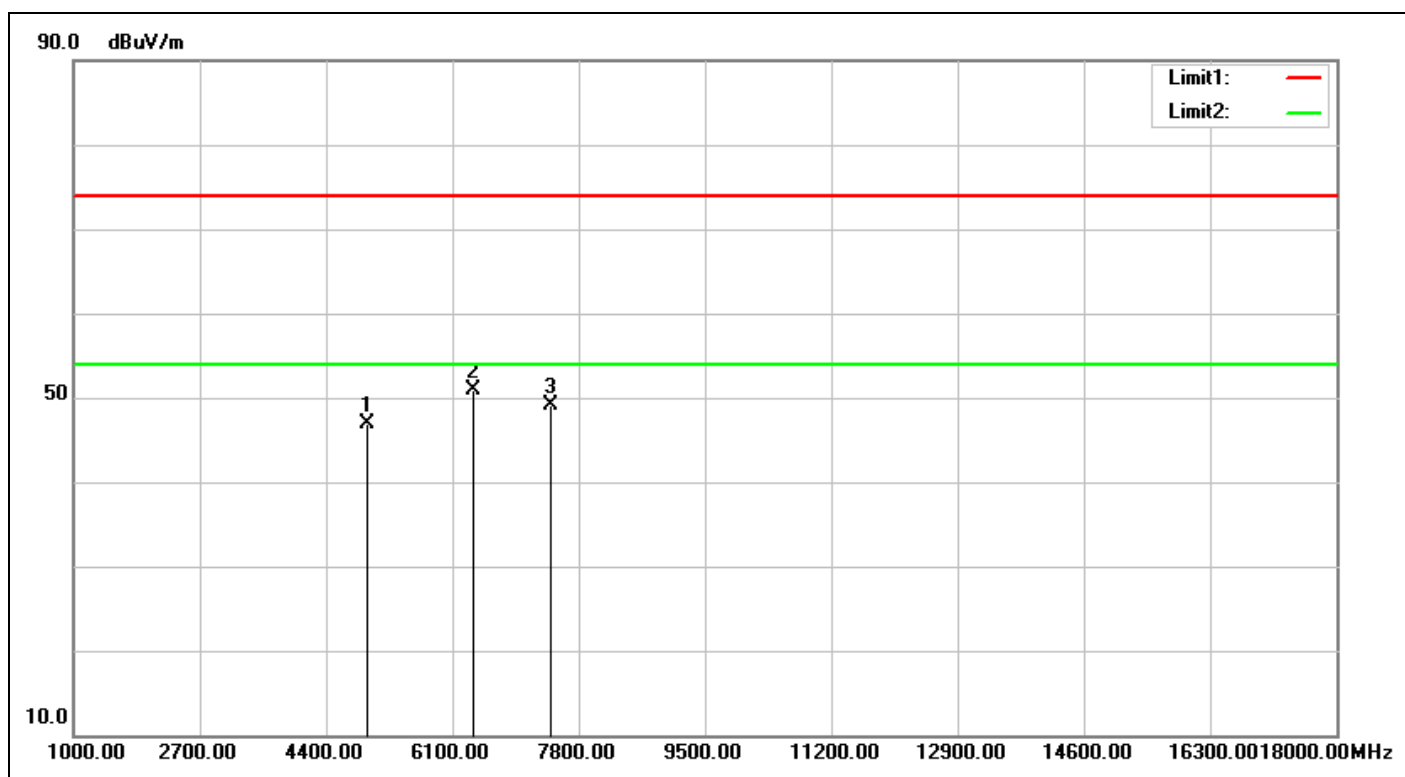
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 19:30:51
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.48	48.24	45.76	74.00	-28.24	peak			
2	6916.000	5.07	46.36	51.43	74.00	-22.57	peak	100	275	
3	7320.000	5.93	43.53	49.46	74.00	-24.54	peak			



Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 19:24:26
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.31	49.34	47.03	74.00	-26.97	peak		0	
2	7440.000	6.28	43.15	49.43	74.00	-24.57	peak		0	
3	8225.000	6.51	44.71	51.22	74.00	-22.78	peak	100	165	



Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 19:25:29
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.31	49.16	46.85	74.00	-27.15	peak			
2	6372.000	5.12	45.77	50.89	74.00	-23.11	peak	100	359	
3	7440.000	6.28	42.76	49.04	74.00	-24.96	peak			

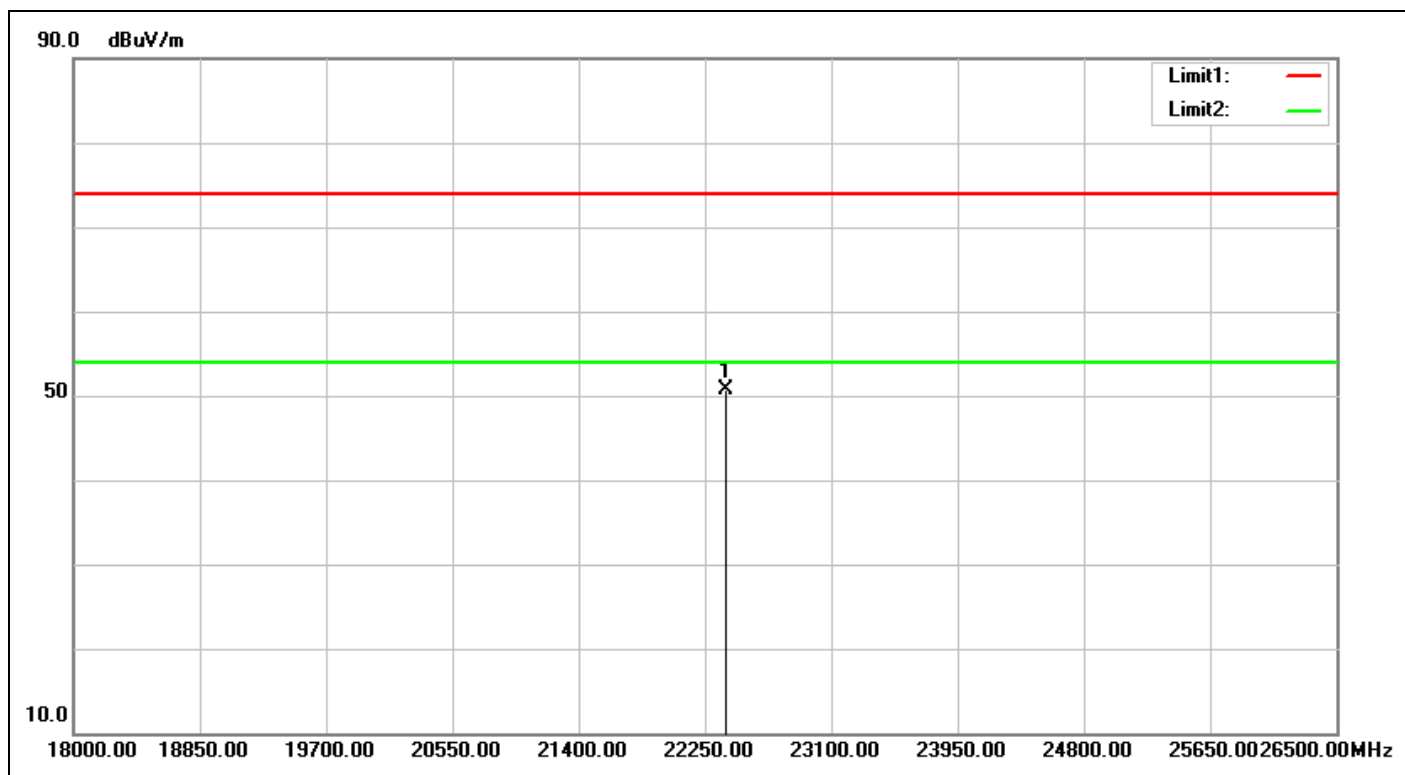
Spurious Emissions, TX Mode, 18-26G



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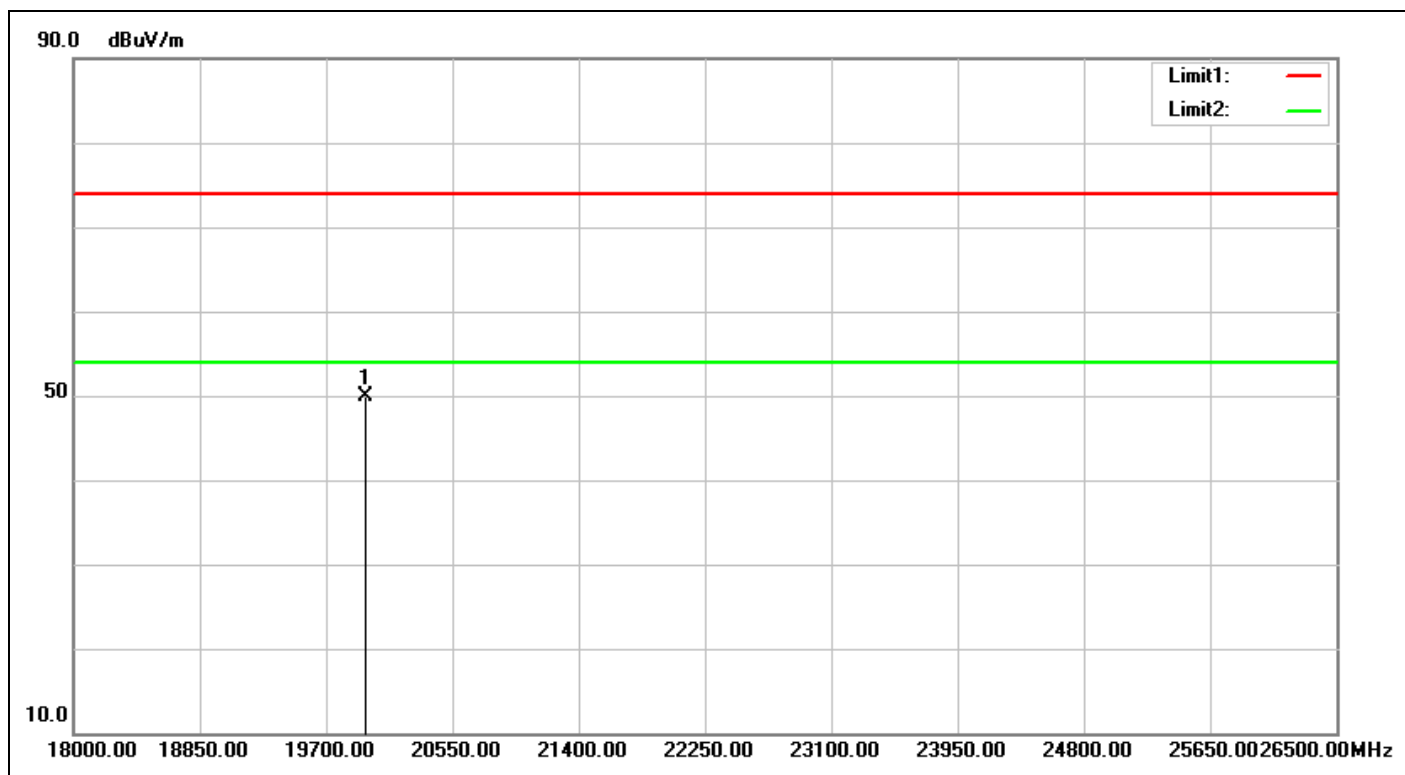
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



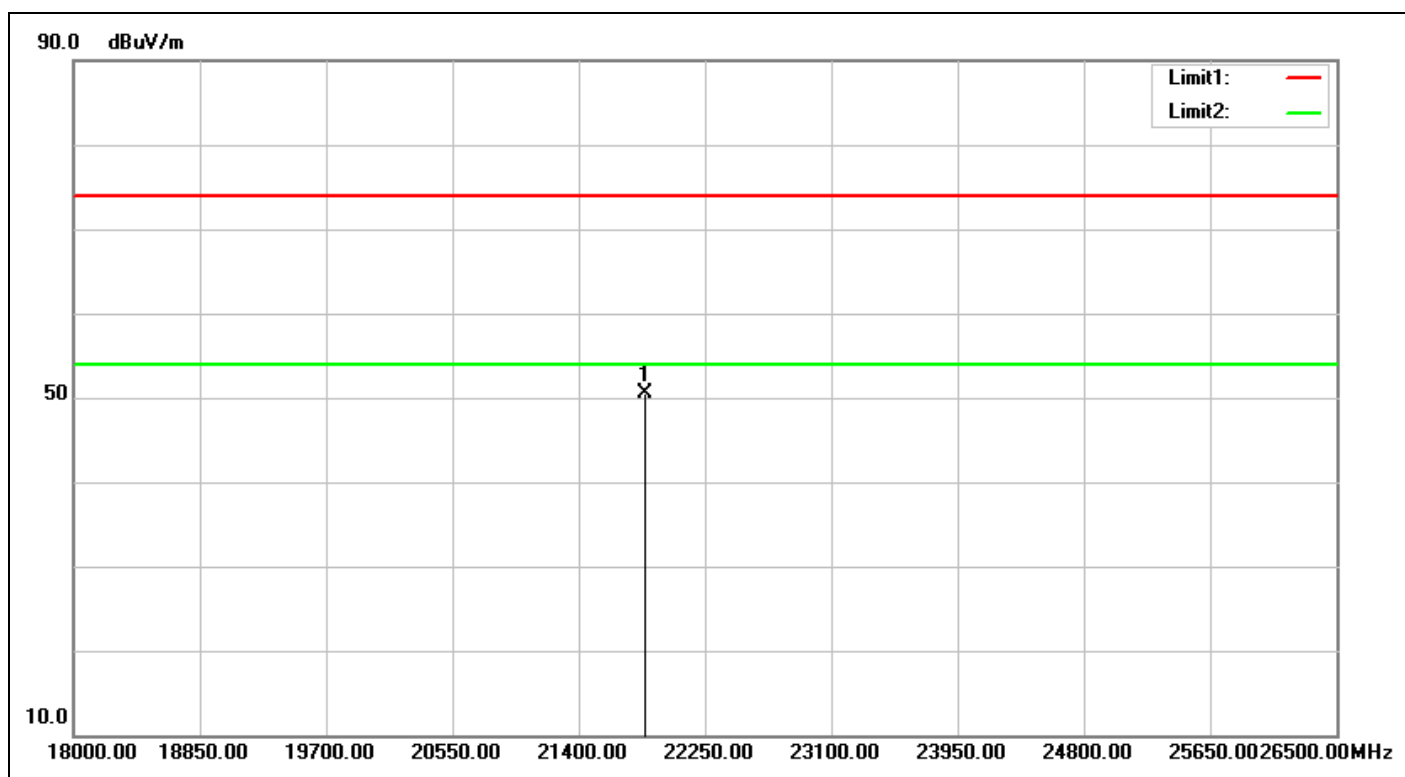
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 20:02:36
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22386.000	32.92	17.85	50.77	74.00	-23.23	peak			



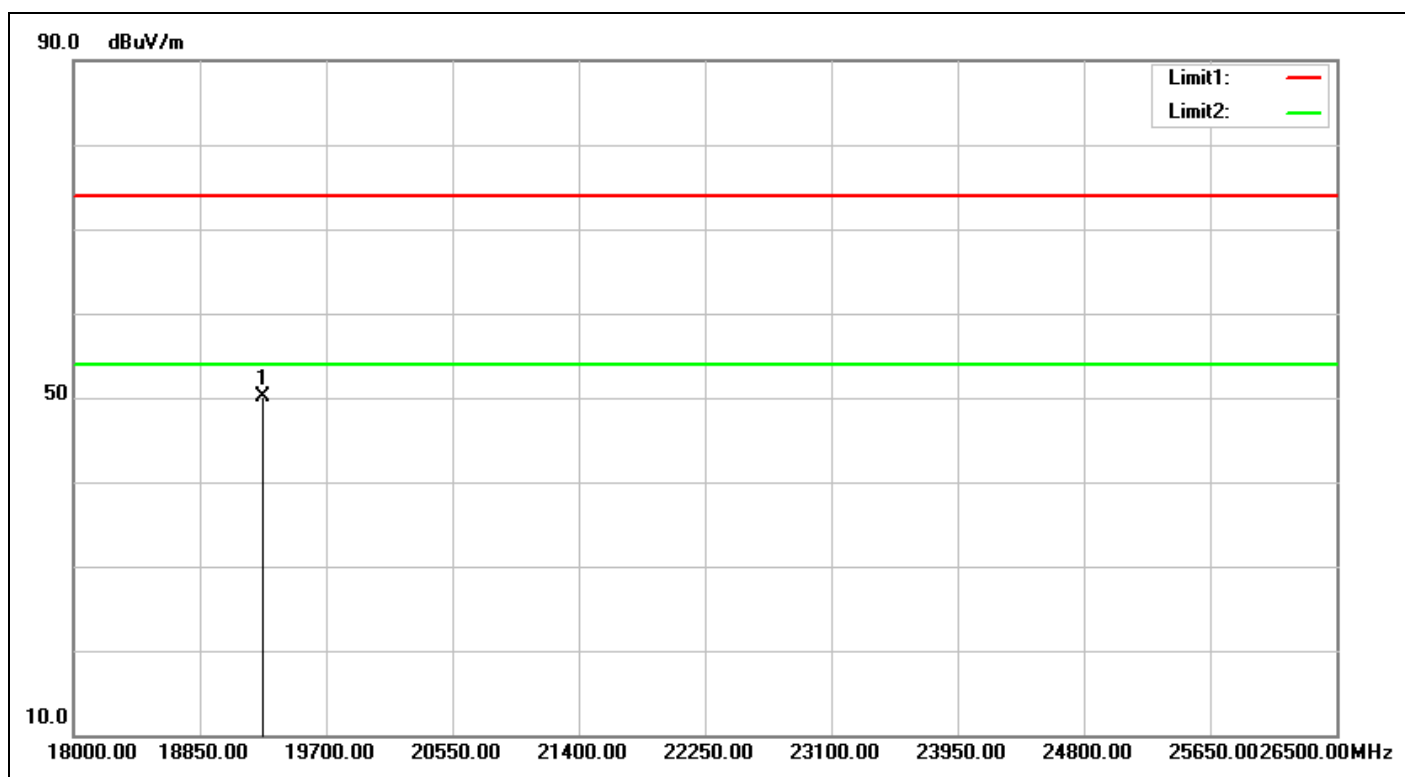
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 20:02:43
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%):	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19963.500	31.46	18.37	49.83	74.00	-24.17	peak			



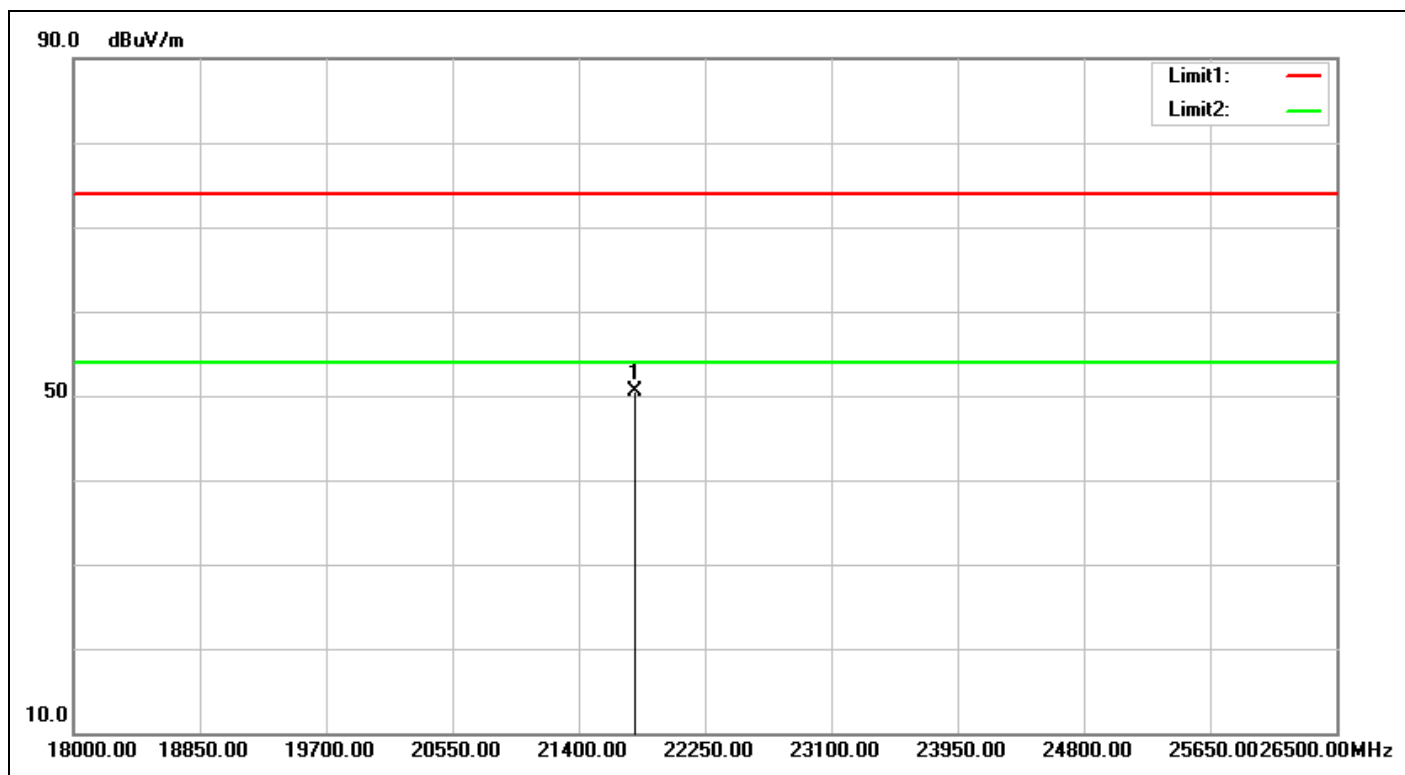
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 20:02:57
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21850.500	32.97	17.46	50.43	74.00	-23.57	peak			



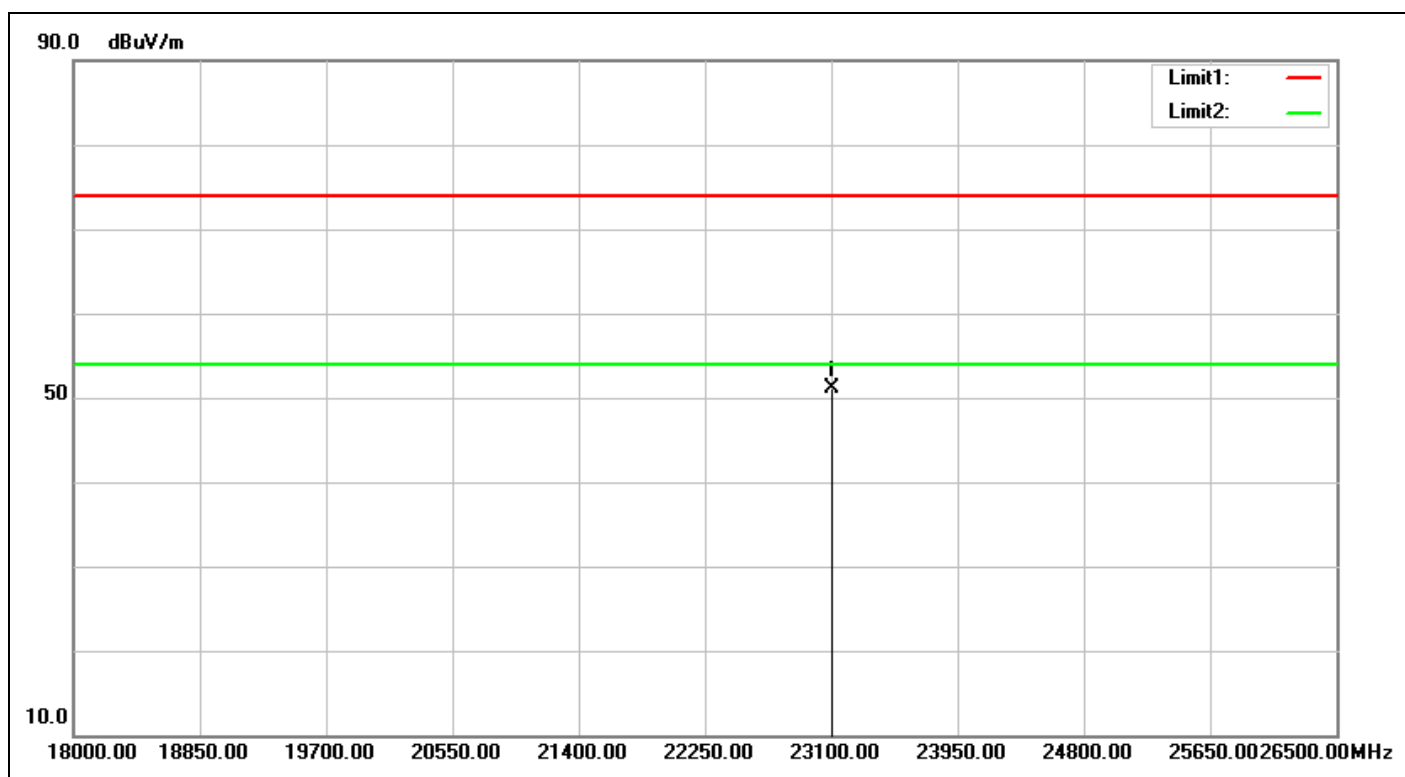
Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 20:03:05
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%):	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19275.000	30.90	19.16	50.06	74.00	-23.94	peak			



Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 20:03:18
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%):	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21782.500	32.90	17.51	50.41	74.00	-23.59	peak			



Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 20:03:27
Applicant:	MILDEF CRETE	Test Rating:	AC 120V/60Hz
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%):	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23100.000	32.57	18.49	51.06	74.00	-22.94	peak			

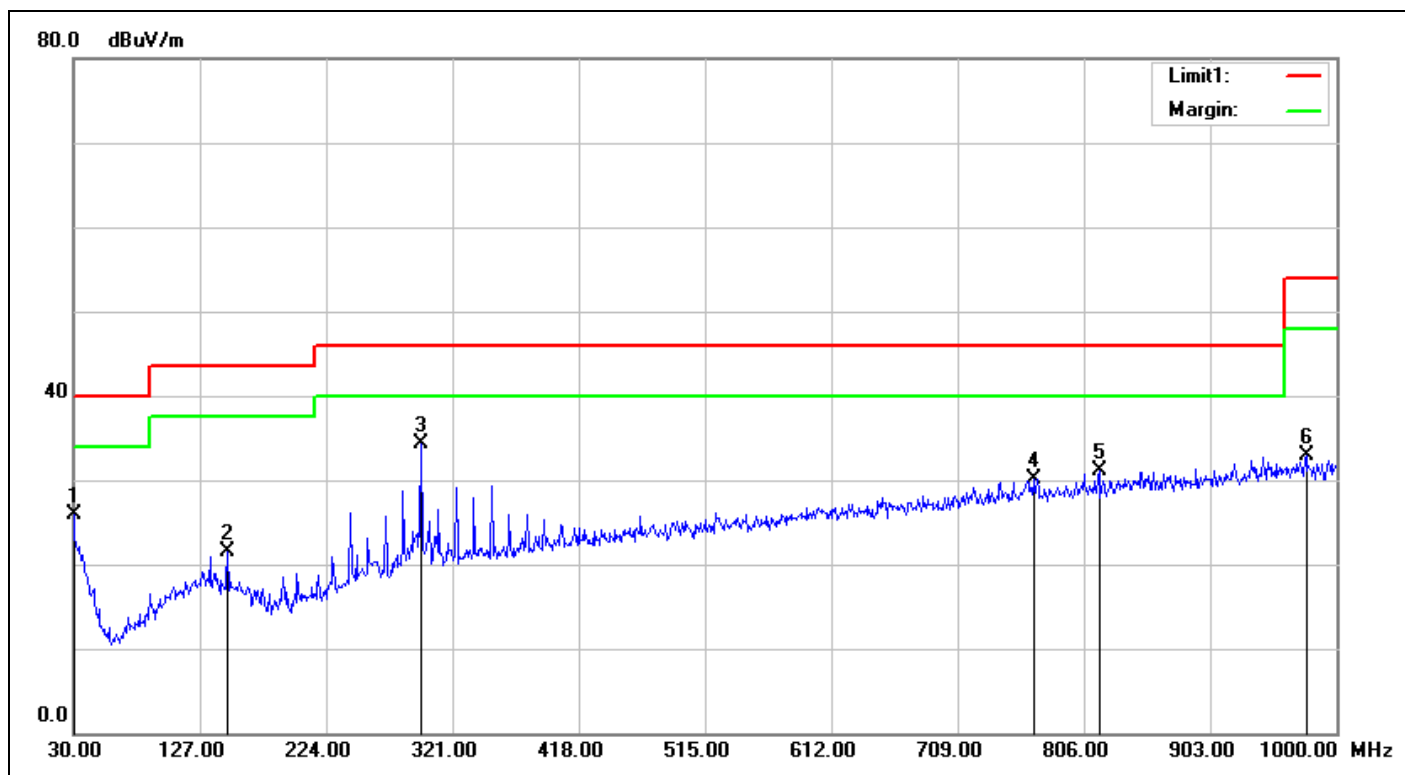
Spurious Emissions, TX Mode, 30M-1G



TUV Taiwan

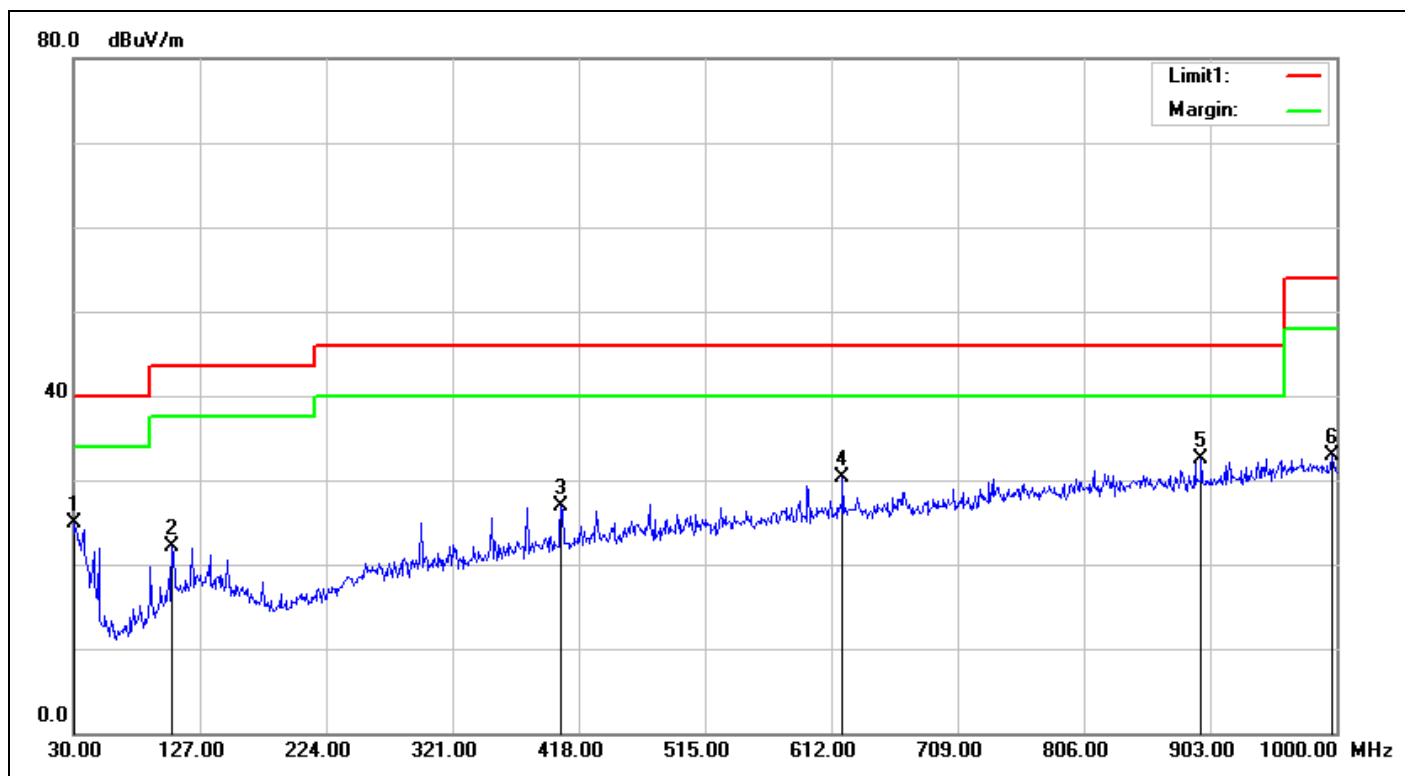
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Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/24 16:42:26
Applicant:	MILDEF CRETE	Test Rating:	DC 5V
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%)	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2440-TX		
Remark:			

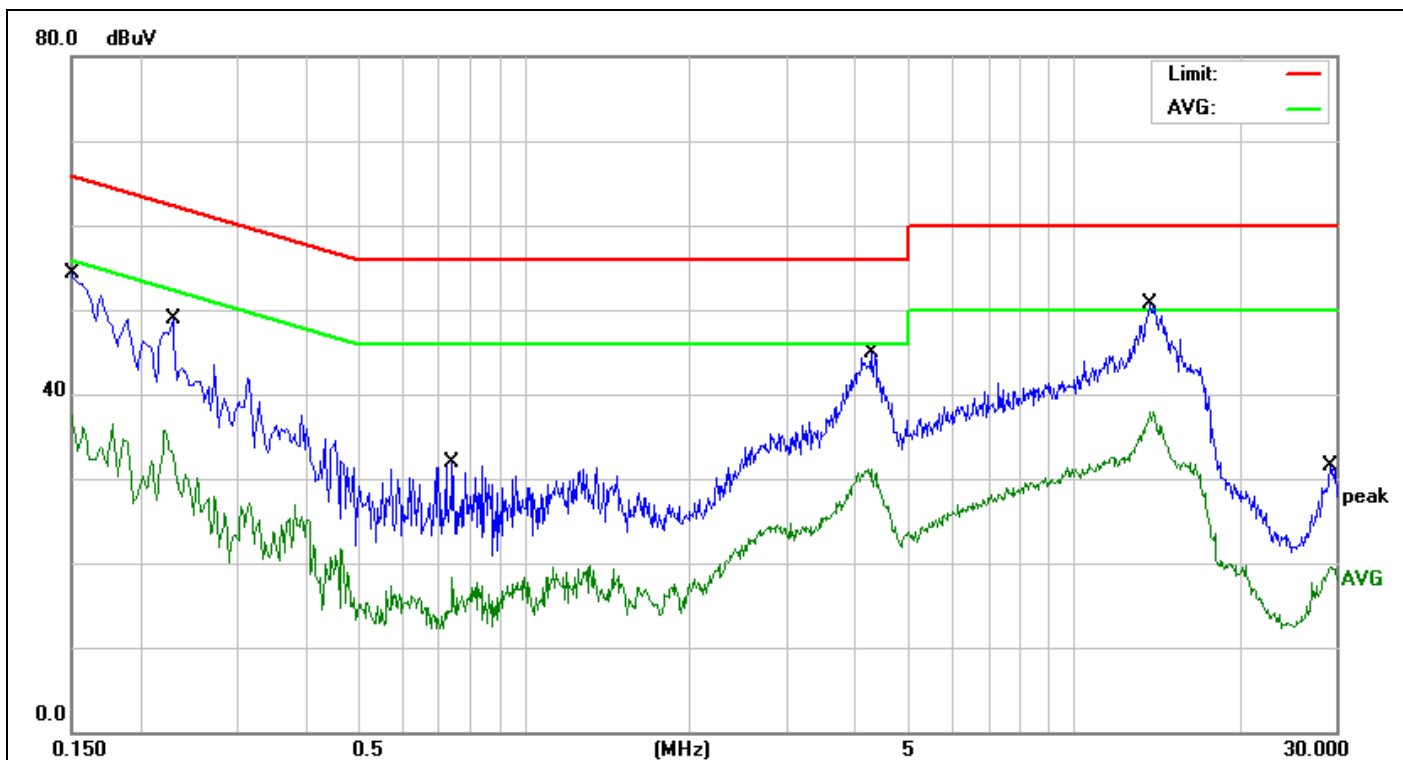
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.07	25.95	25.88	40.00	-14.12	QP	100	230	
2	148.3400	-7.36	28.88	21.52	43.50	-21.98	QP	100	108	
3	296.7500	-4.56	38.93	34.37	46.00	-11.63	QP	100	59	
4	767.2000	2.51	27.66	30.17	46.00	-15.83	QP	100	20	
5	817.6399	3.13	27.95	31.08	46.00	-14.92	QP	100	0	
6	976.7200	5.63	27.25	32.88	54.00	-21.12	QP	100	48	



Service No.:	114058586	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/24 16:43:29
Applicant:	MILDEF CRETE	Test Rating:	DC 5V
Product:	HANDHELD COMPUTER	Temp.(°C)/Hum.(%):	18.8(°C)/48%
Model No.:	DF8A	Test Engineer:	George Yang
Test Mode:	2440-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	-0.07	25.01	24.94	40.00	-15.06	QP	100	63	
2	105.6600	-8.75	30.90	22.15	43.50	-21.35	QP	100	191	
3	404.4200	-2.59	29.53	26.94	46.00	-19.06	QP	100	50	
4	620.7300	0.23	30.11	30.34	46.00	-15.66	QP	100	343	
5	896.2100	4.12	28.33	32.45	46.00	-13.55	QP	100	354	
6	996.1200	5.79	27.19	32.98	54.00	-21.02	QP	100	113	

Mains Spurious Emissions



Service No.: 114058586

Test Standard: FCC Class B Conduction(QP)

Probe: N

Test item: Conduction Emission

Test Time: 2016/12/15 19:58:43

Applicant: MILDEF CRETE

Test Rating: AC 120V/60Hz

Product: HANDHELD COMPUTER

Temp.(°C)/Hum.(%): 22(°C)/46%

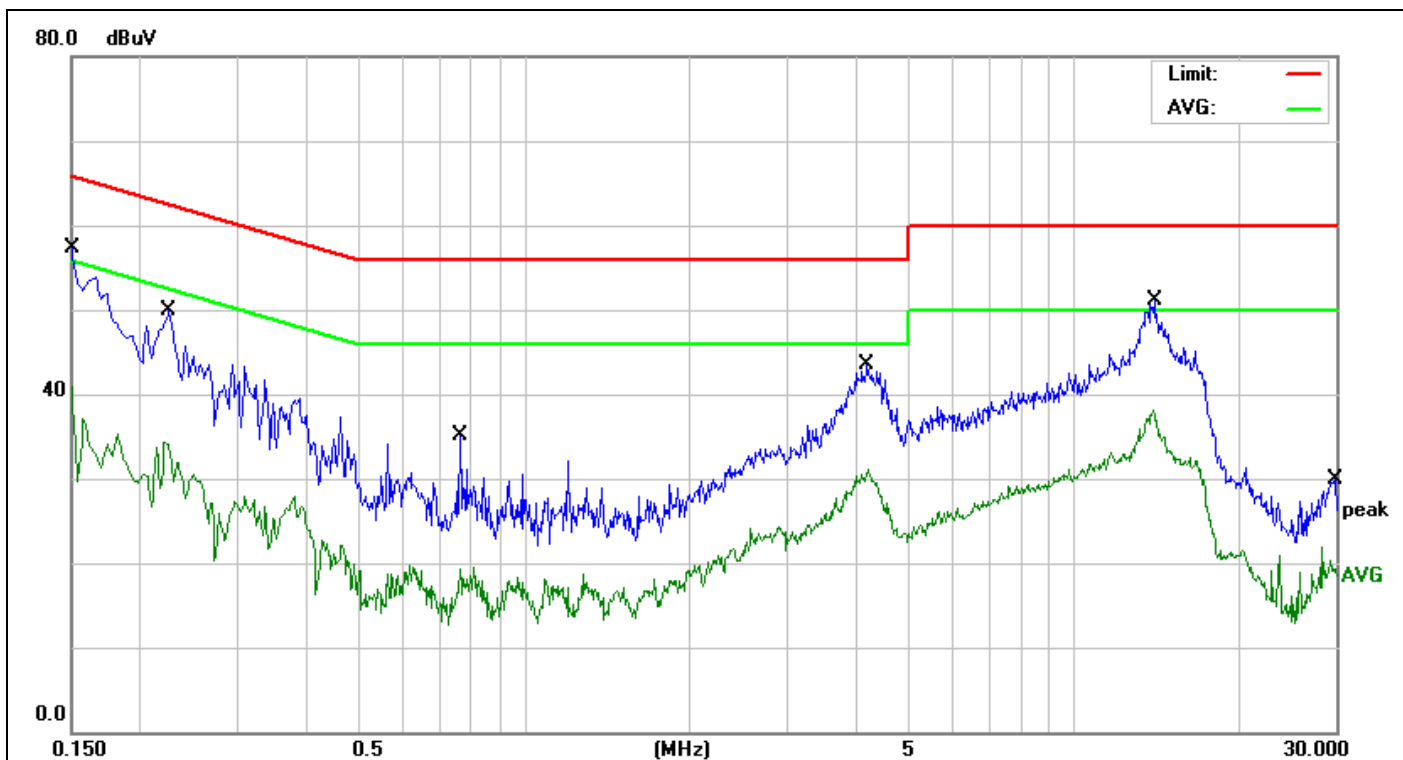
Model No.: DF8A

Test Engineer: George Yang

Test Mode: Mains

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	9.73	41.61	51.34	65.99	-14.65	QP	
2	0.1500	9.73	25.69	35.42	55.99	-20.57	AVG	
3	0.2300	9.69	32.70	42.39	62.45	-20.06	QP	
4	0.2300	9.69	20.98	30.67	52.45	-21.78	AVG	
5	0.7420	9.69	11.82	21.51	56.00	-34.49	QP	
6	0.7420	9.69	4.17	13.86	46.00	-32.14	AVG	
7	4.2819	9.71	28.47	38.18	56.00	-17.82	QP	
8	4.2819	9.71	18.09	27.80	46.00	-18.20	AVG	
9	13.8300	9.88	34.59	44.47	60.00	-15.53	QP	
10	13.8300	9.88	25.53	35.41	50.00	-14.59	AVG	
11	29.3580	10.07	13.23	23.30	60.00	-36.70	QP	
12	29.3580	10.07	7.74	17.81	50.00	-32.19	AVG	



Service No.: 114058586

Test Standard: FCC Class B Conduction(QP)

Probe: L1

Test item: Conduction Emission

Test Time: 2016/12/15 19:55:34

Applicant: MILDEF CRETE

Test Rating: AC 120V/60Hz

Product: HANDHELD COMPUTER

Temp.(°C)/Hum.(%): 22(°C)/46%

Model No.: DF8A

Test Engineer: George Yang

Test Mode: Mains

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	9.78	43.13	52.91	65.99	-13.08	QP	
2	0.1500	9.78	25.77	35.55	55.99	-20.44	AVG	
3	0.2260	9.76	35.52	45.28	62.59	-17.31	QP	
4	0.2260	9.76	22.71	32.47	52.59	-20.12	AVG	
5	0.7660	9.75	15.74	25.49	56.00	-30.51	QP	
6	0.7660	9.75	7.52	17.27	46.00	-28.73	AVG	
7	4.2180	9.79	28.15	37.94	56.00	-18.06	QP	
8	4.2180	9.79	18.05	27.84	46.00	-18.16	AVG	
9	13.9940	9.91	35.09	45.00	60.00	-15.00	QP	
10	13.9940	9.91	25.97	35.88	50.00	-14.12	AVG	
11	29.9900	9.89	14.03	23.92	60.00	-36.08	QP	
12	29.9900	9.89	8.45	18.34	50.00	-31.66	AVG	