

Test Report No.50054101 001

Appendix D: Radiated and Mains Spurious Emission Data

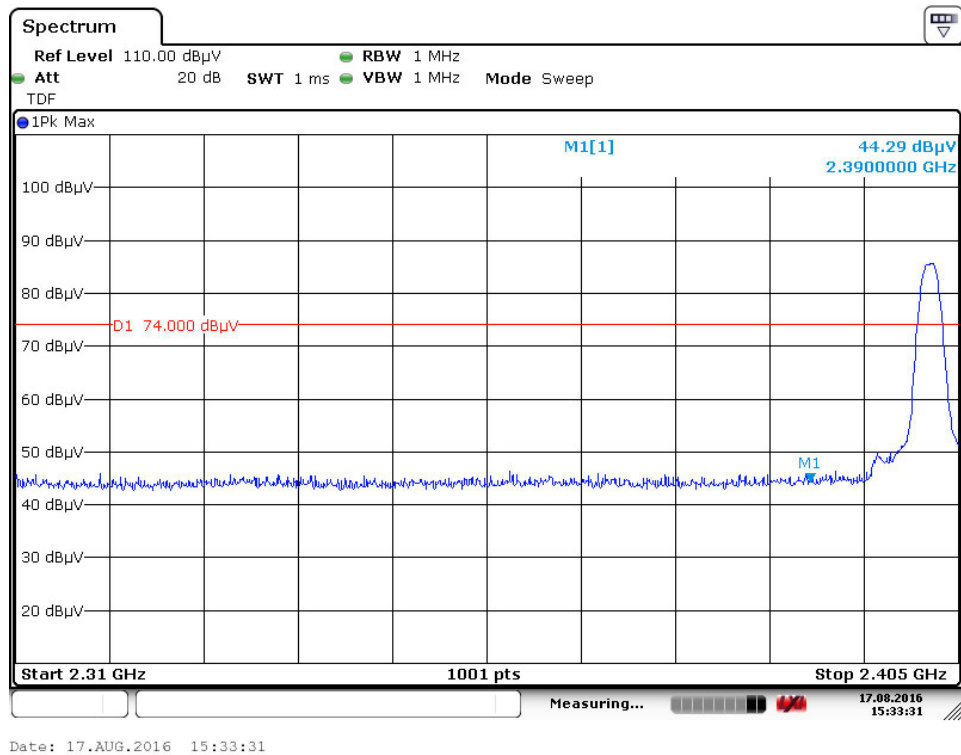
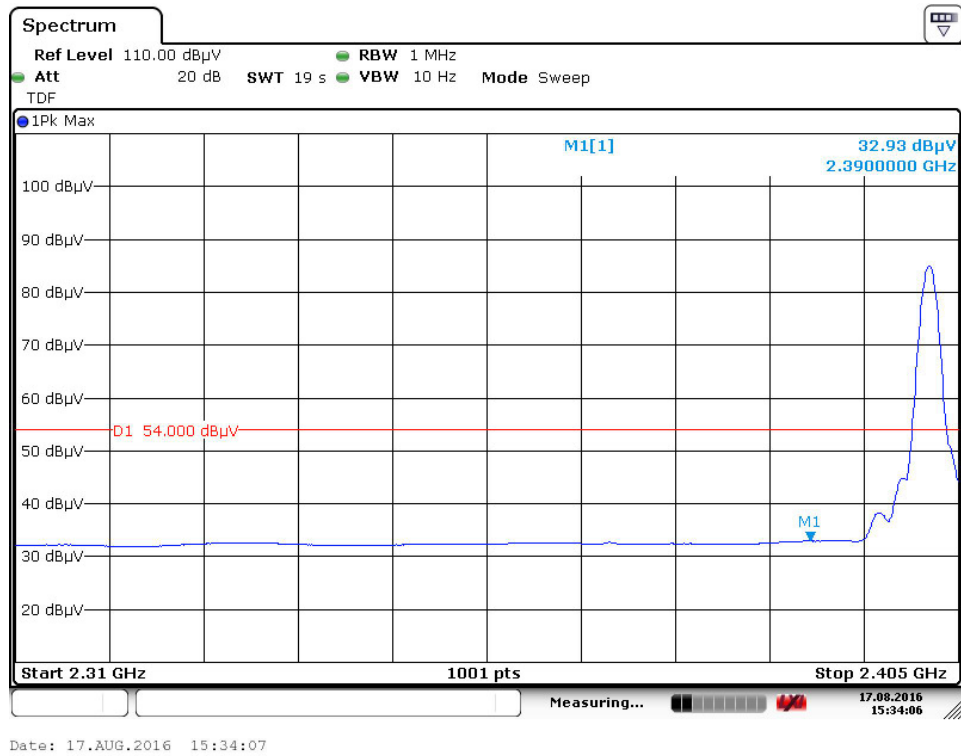
(File: 50054101AppendixD)

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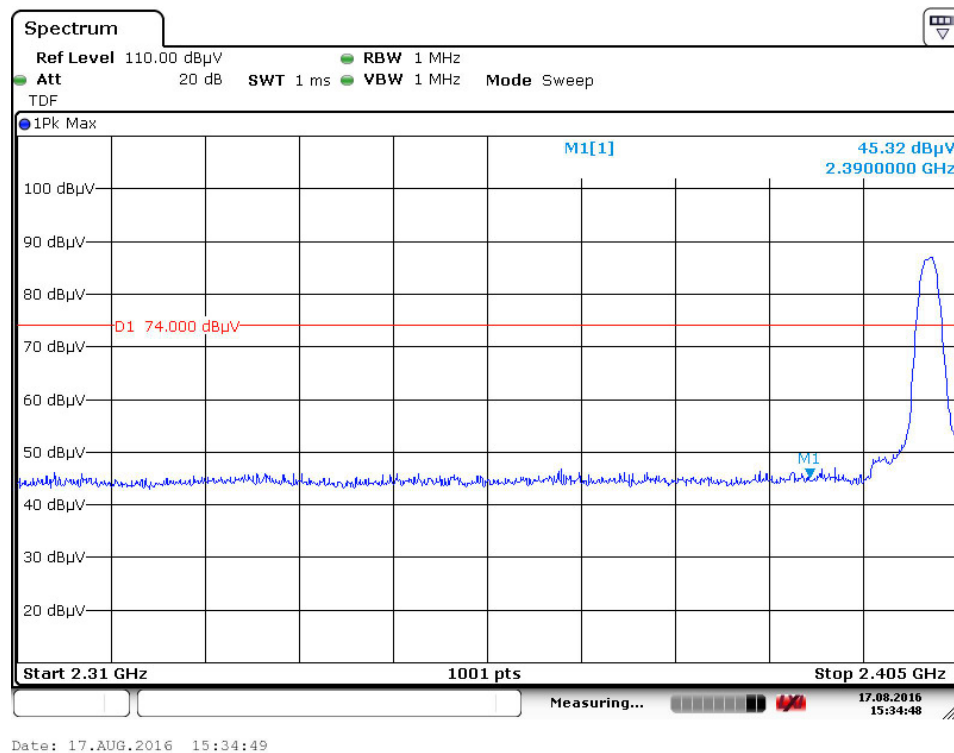
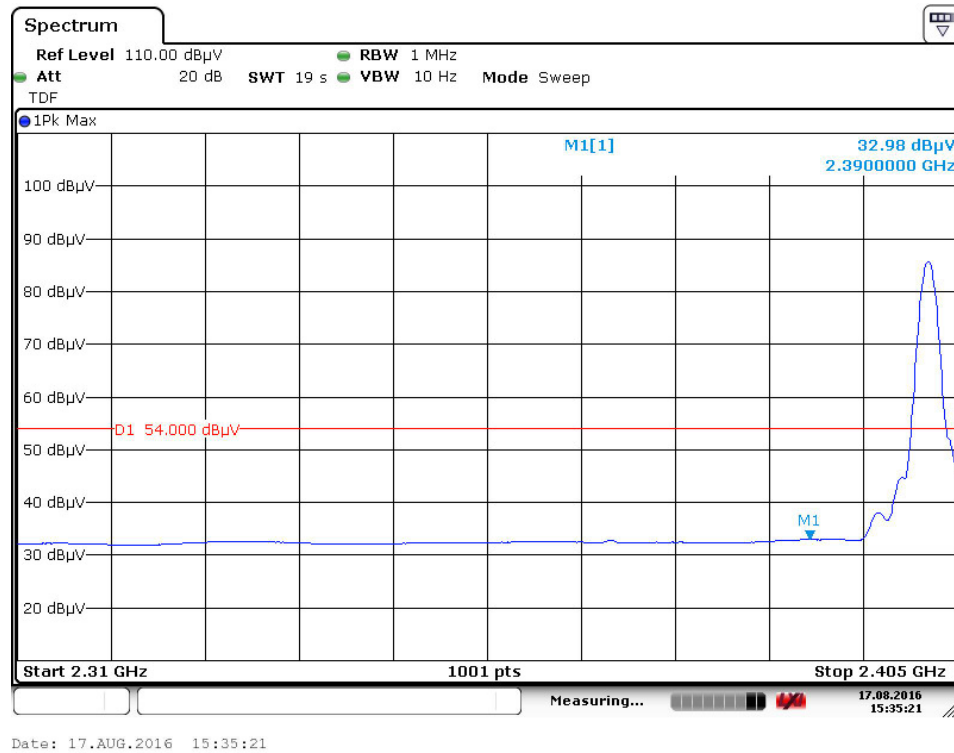
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Radiated Bandedge (GFSK)

Low Channel (Hor)



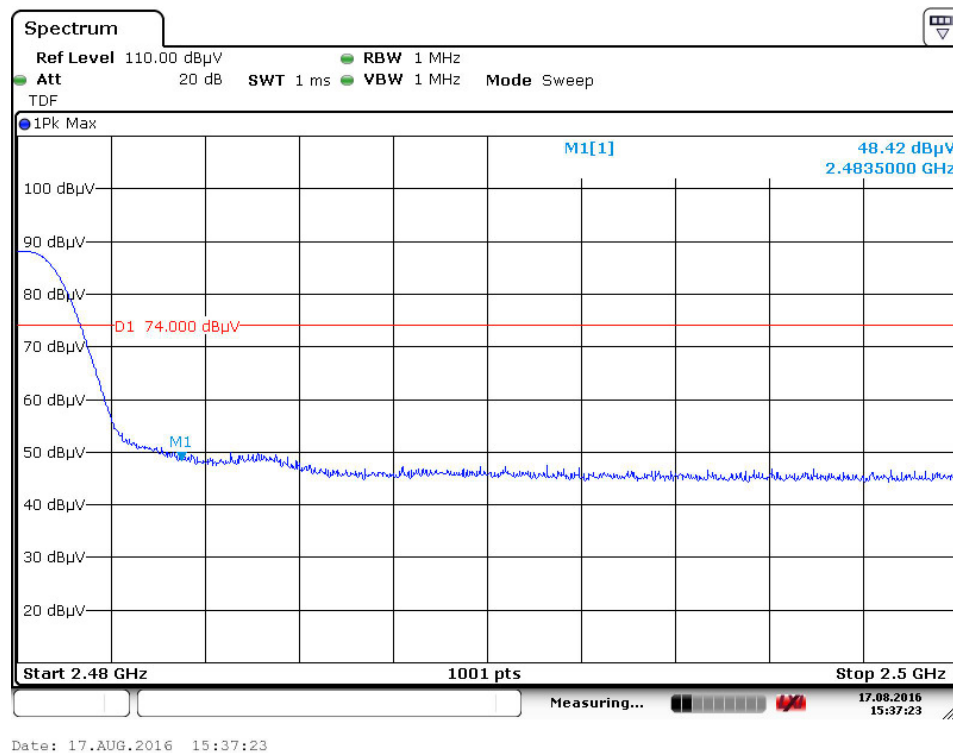
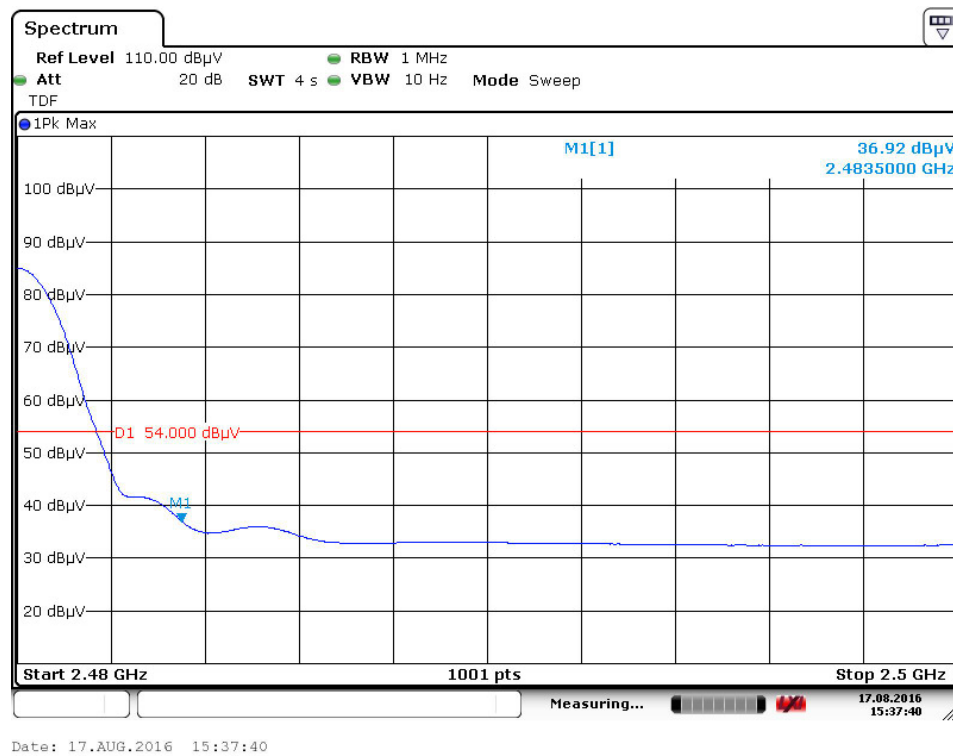
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

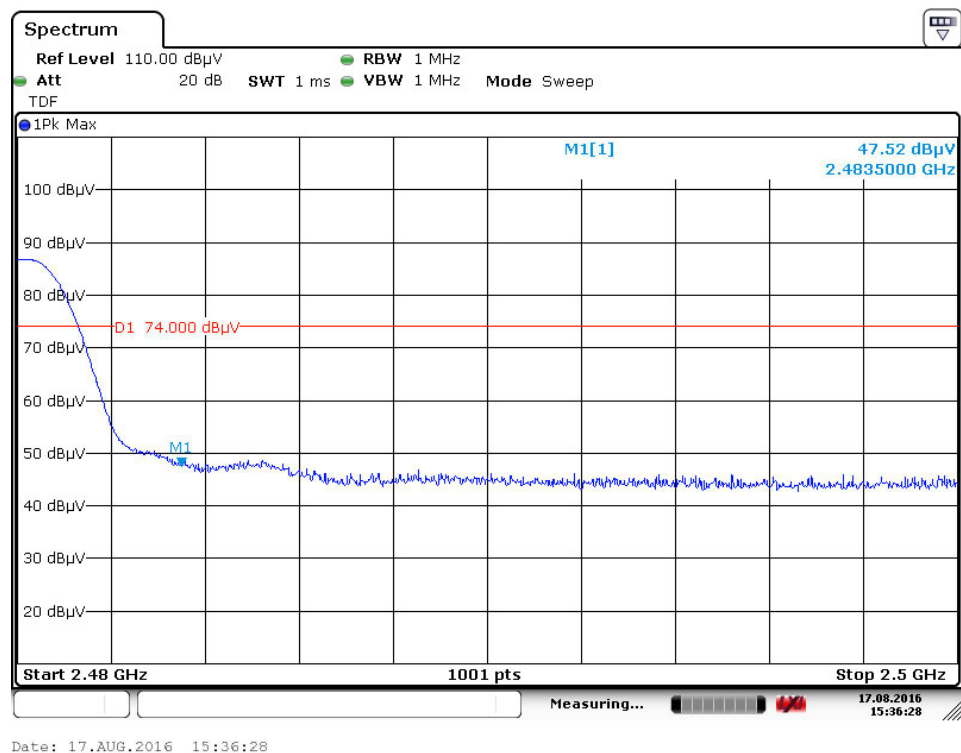
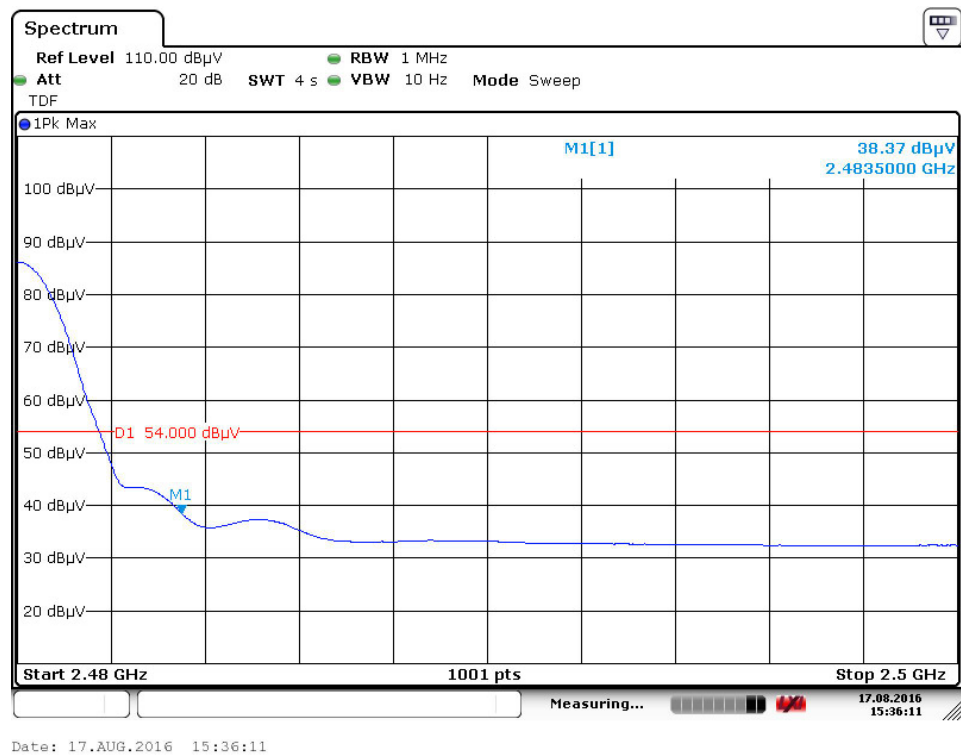
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

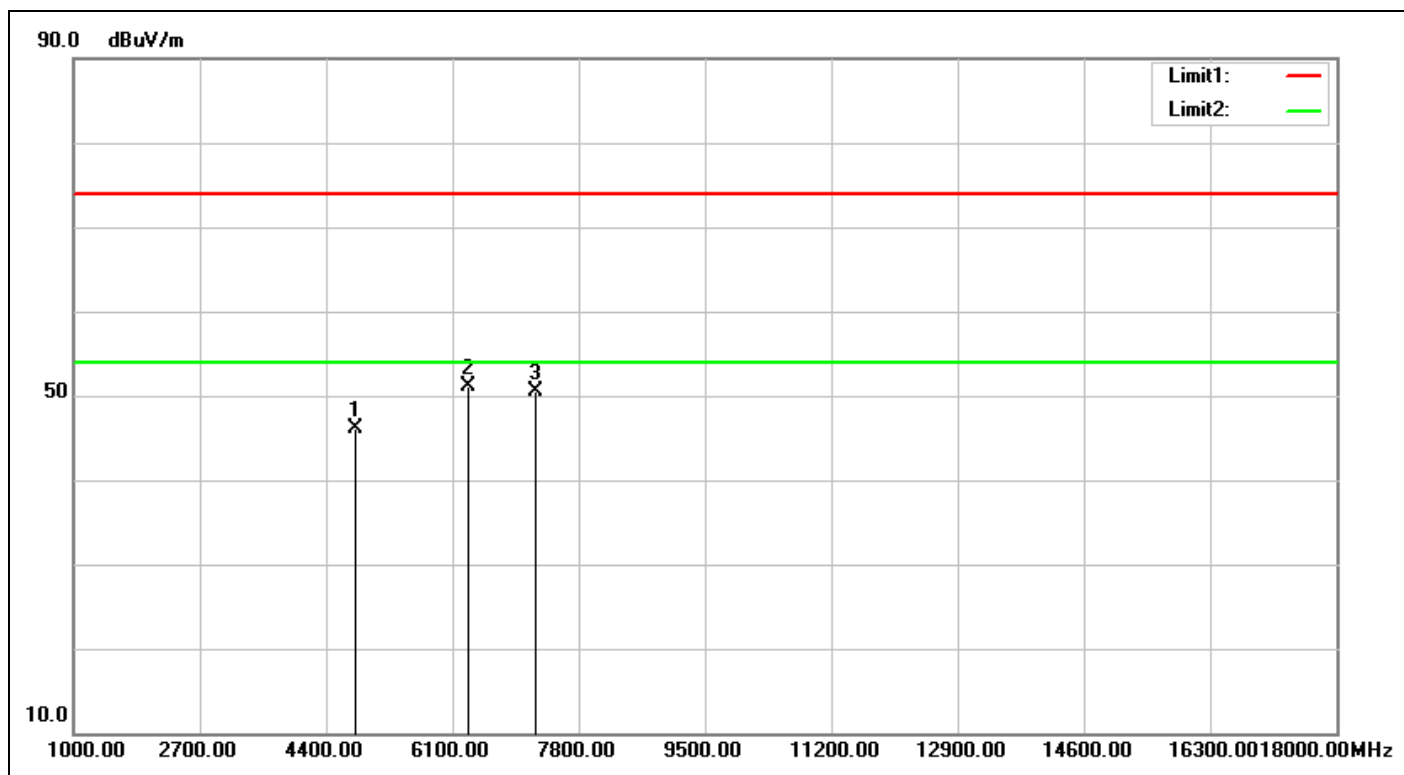
Spurious Emissions, TX Mode, 1-18G



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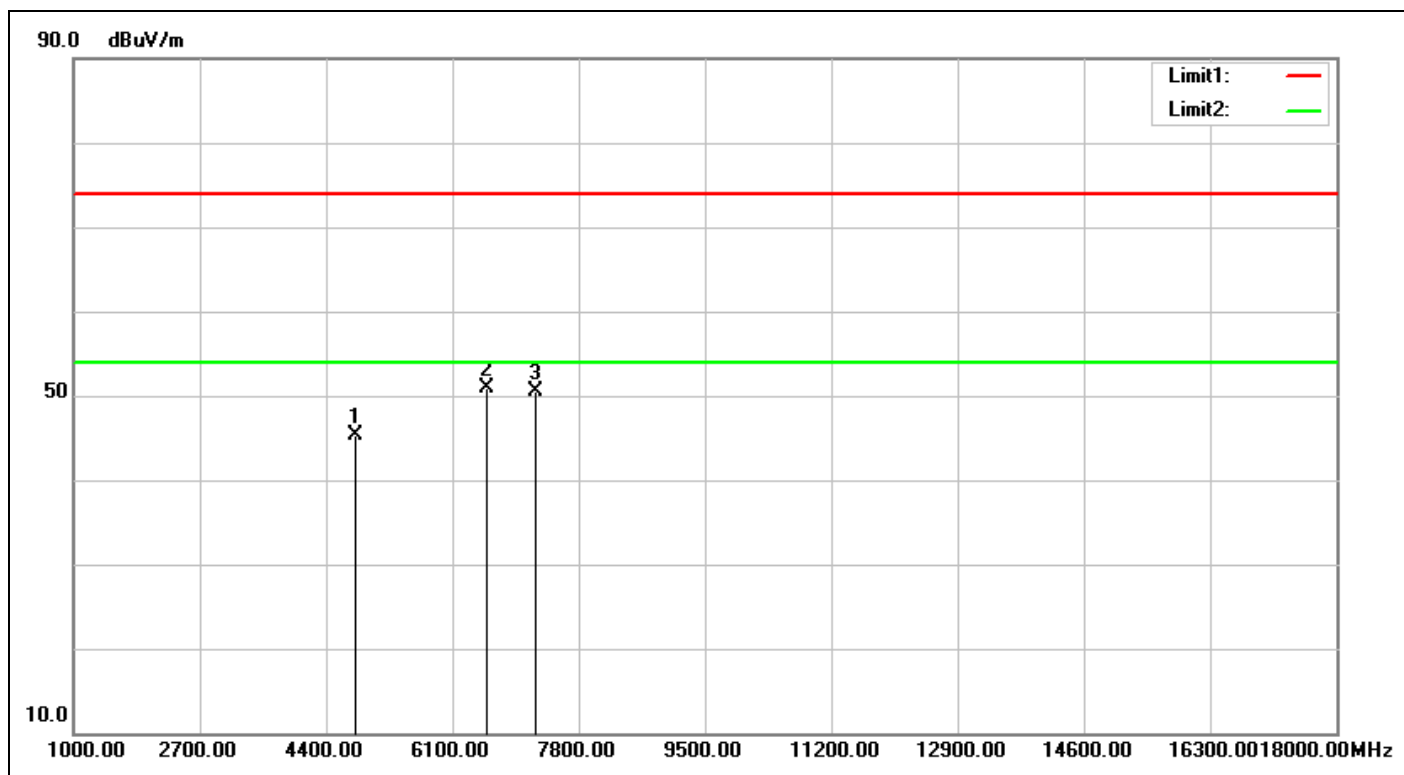
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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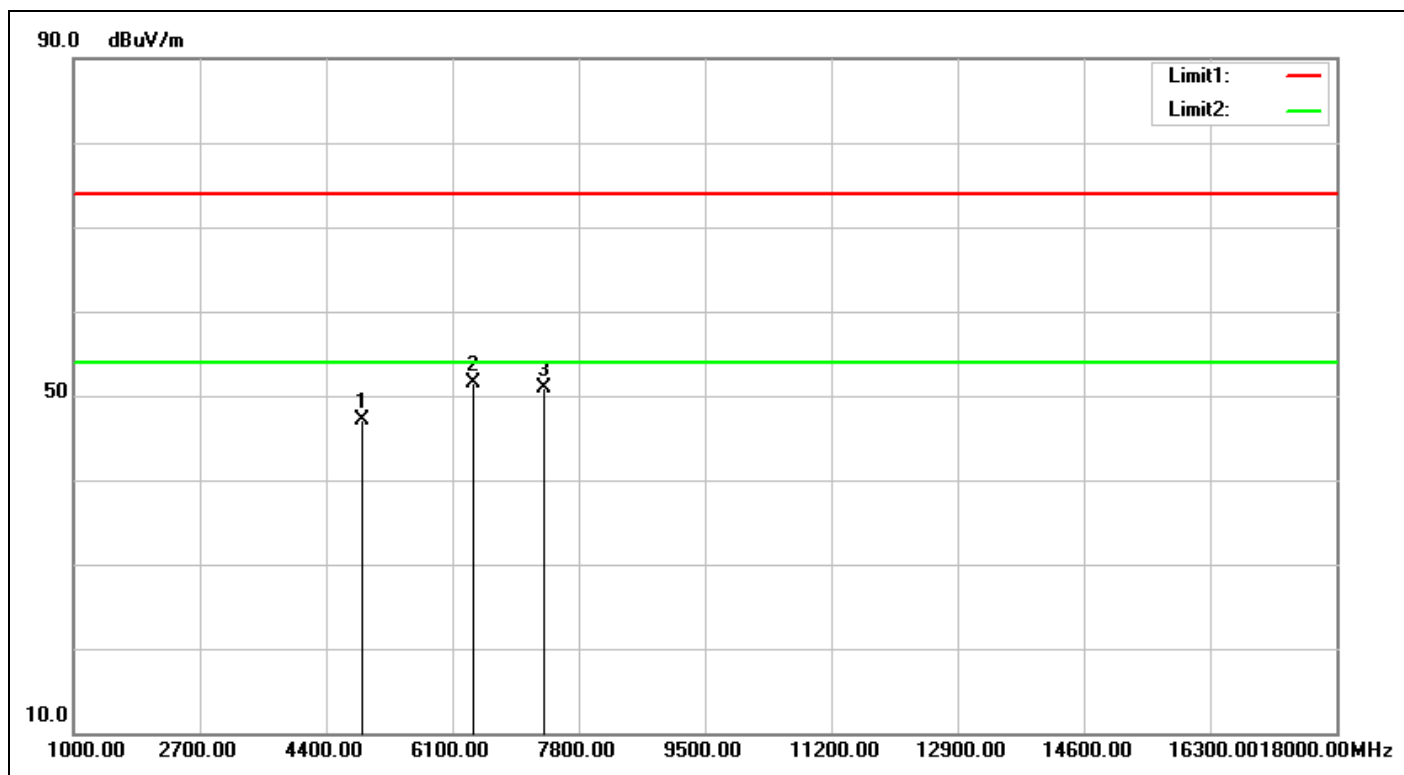
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:42:37
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	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	-2.64	48.76	46.12	74.00	-27.88	peak			
2	6321.000	4.94	46.19	51.13	74.00	-22.87	peak	100	111	
3	7206.000	5.57	44.98	50.55	74.00	-23.45	peak			



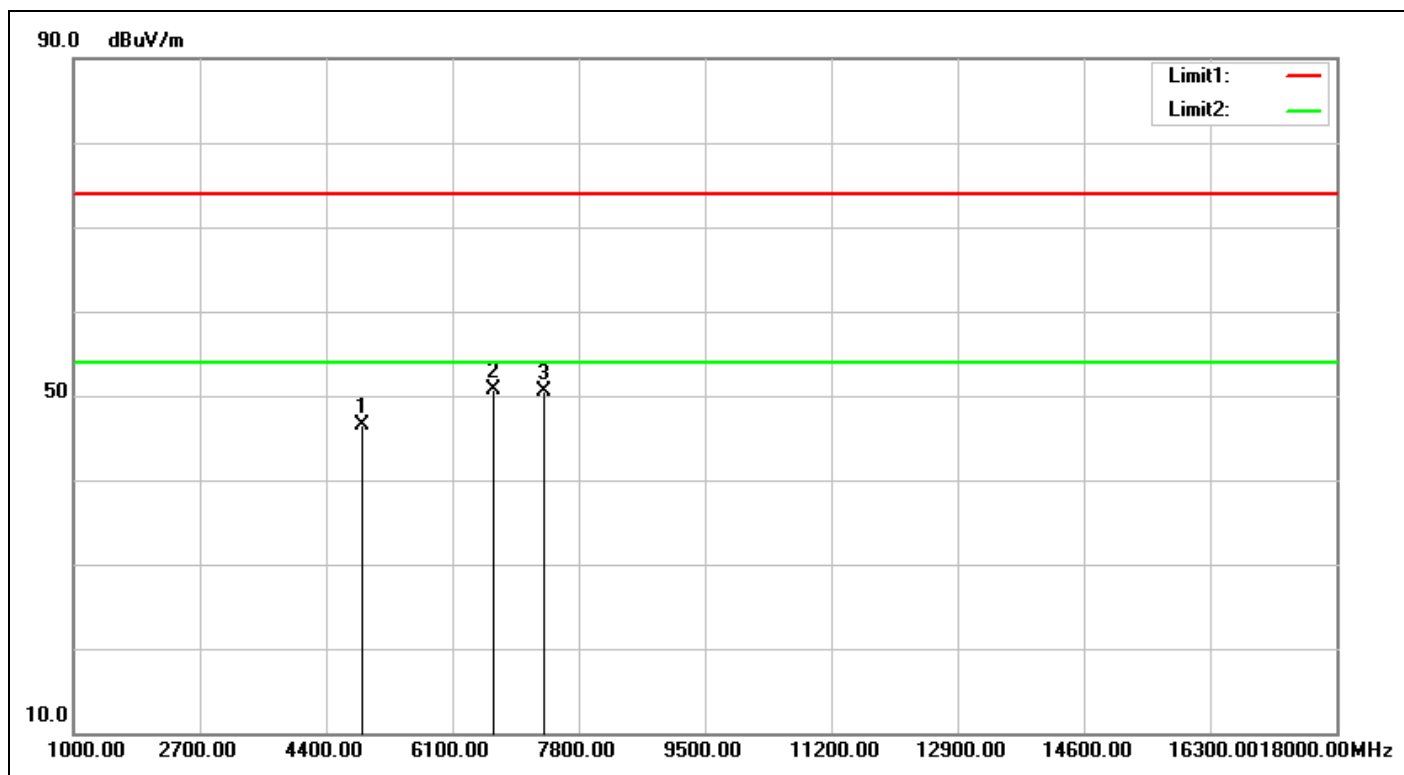
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:43:40
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George 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	-2.64	48.02	45.38	74.00	-28.62	peak			
2	6559.000	5.46	45.37	50.83	74.00	-23.17	peak	100	121	
3	7206.000	5.57	44.88	50.45	74.00	-23.55	peak			



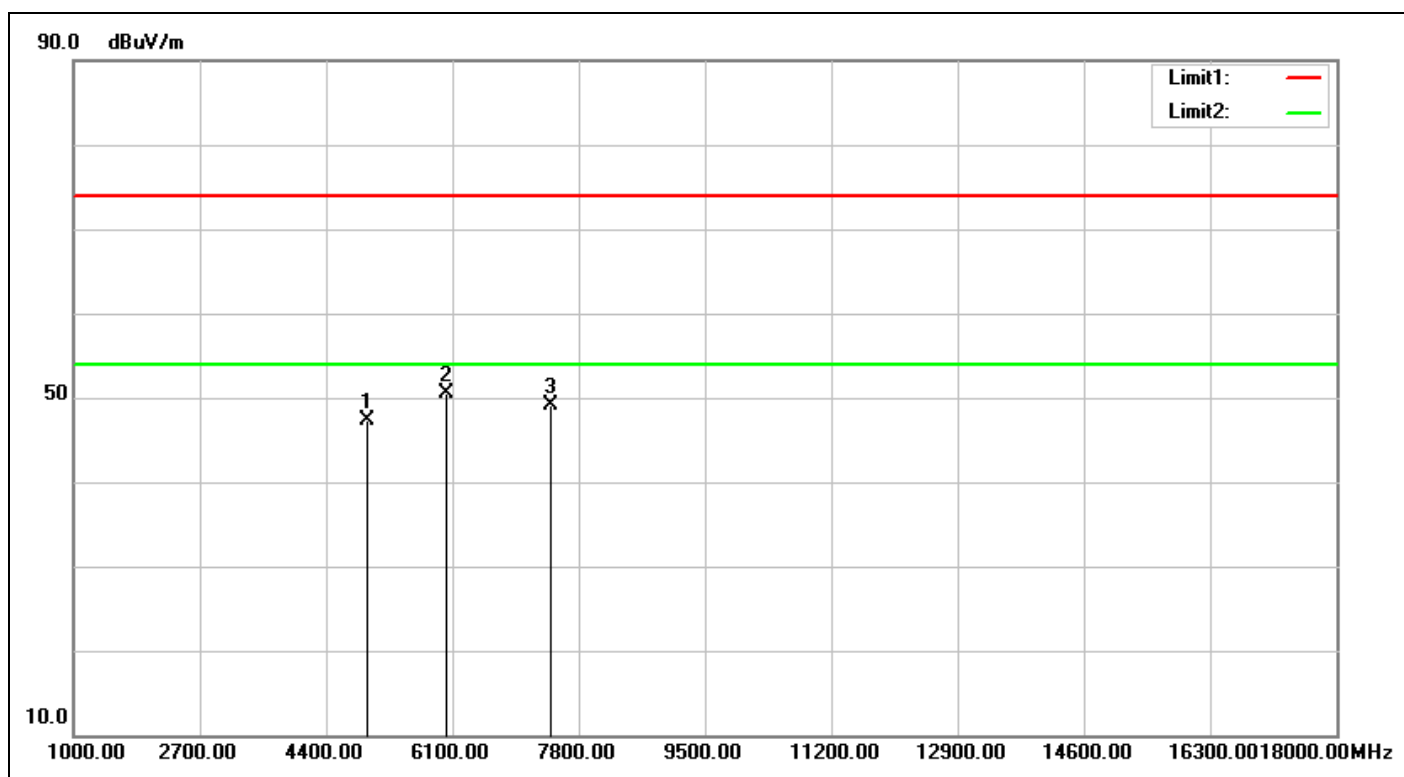
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:47:35
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	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	-2.47	49.63	47.16	74.00	-26.84	peak			
2	6372.000	5.11	46.33	51.44	74.00	-22.56	peak	100	202	
3	7320.000	5.90	44.94	50.84	74.00	-23.16	peak			



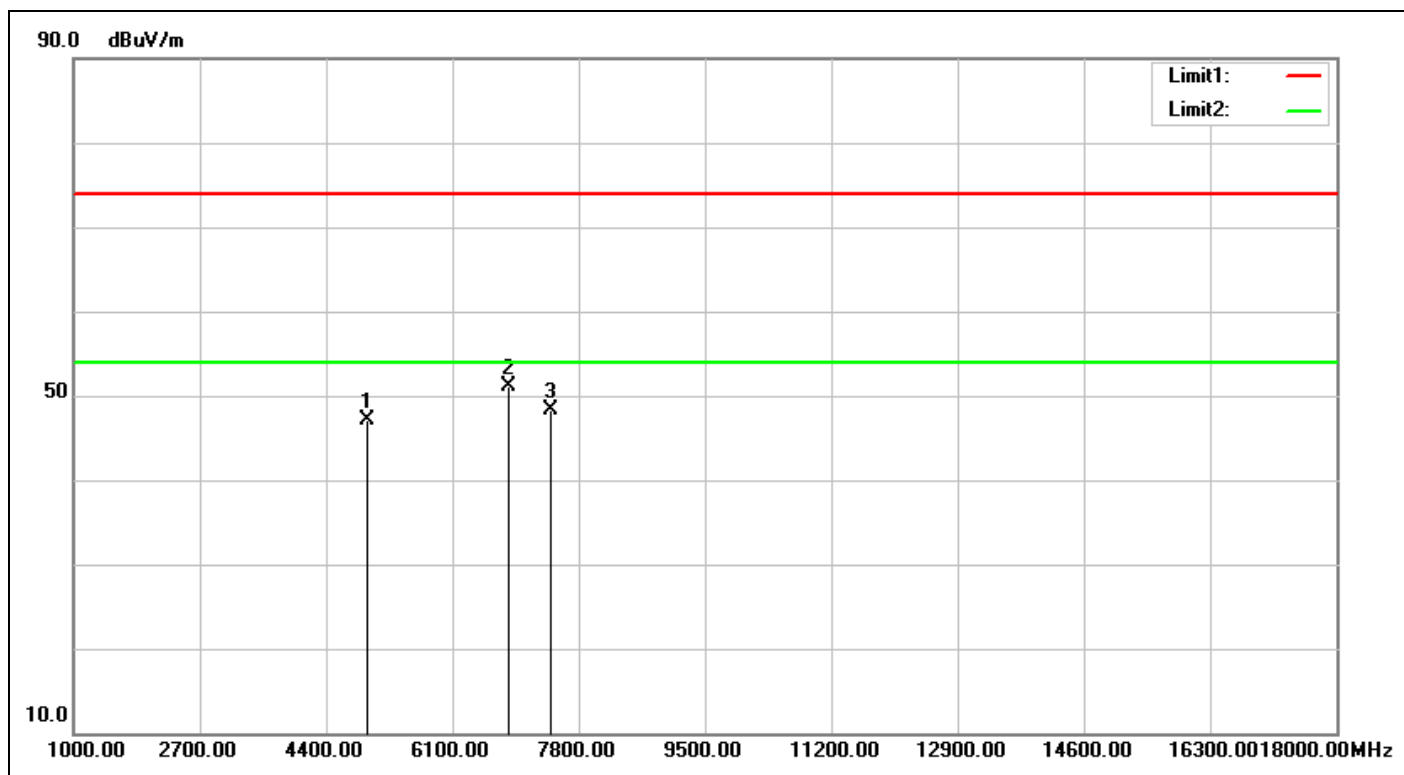
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:48:37
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George 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	-2.47	48.99	46.52	74.00	-27.48	peak			
2	6661.000	5.34	45.30	50.64	74.00	-23.36	peak	100	274	
3	7320.000	5.90	44.56	50.46	74.00	-23.54	peak			



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:30:43
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	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	-2.30	49.67	47.37	74.00	-26.63	peak		0	
2	6015.000	3.98	46.58	50.56	74.00	-23.44	peak	100	329	
3	7440.000	6.24	42.91	49.15	74.00	-24.85	peak		0	



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:34:56
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	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	-2.30	49.46	47.16	74.00	-26.84	peak			
2	6848.000	5.15	46.00	51.15	74.00	-22.85	peak	100	175	
3	7440.000	6.24	41.97	48.21	74.00	-25.79	peak			

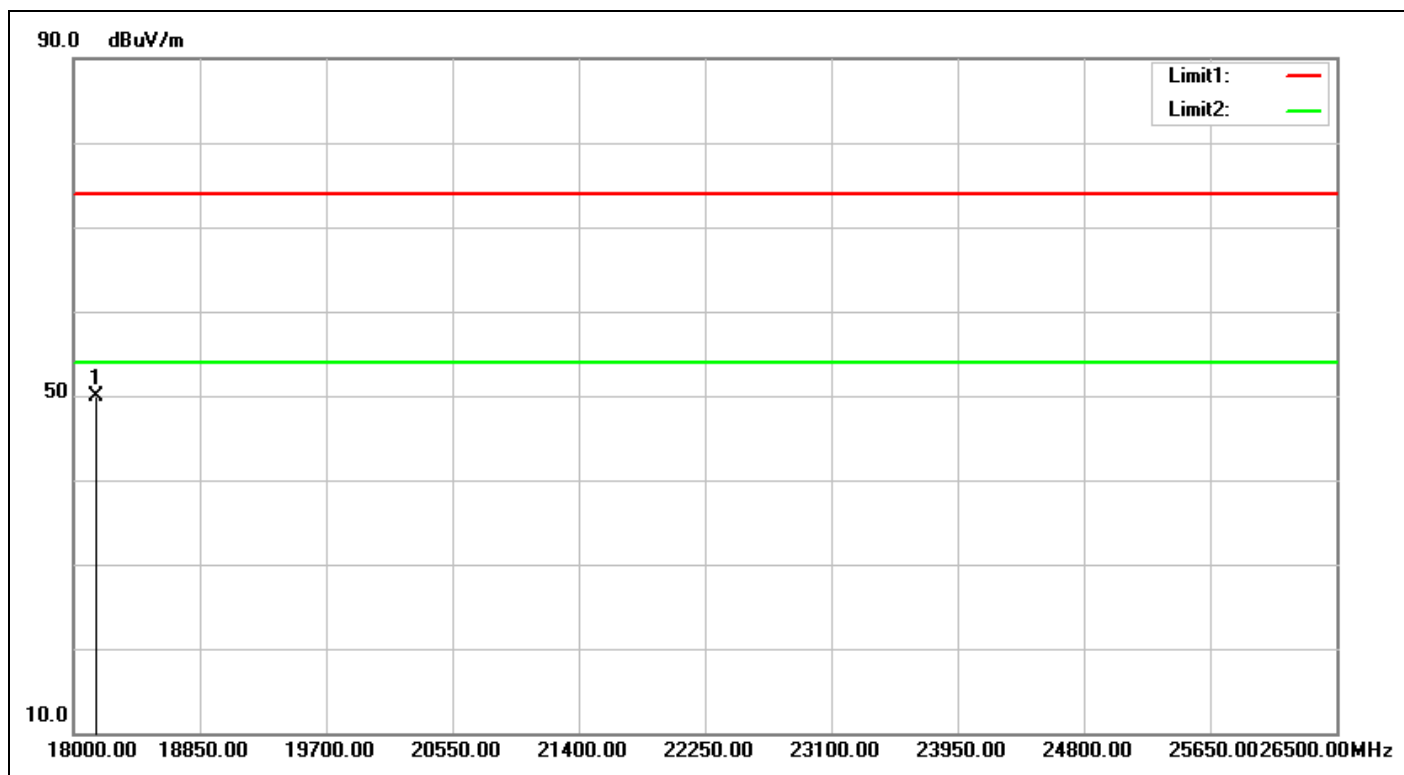
Spurious Emissions, TX Mode, 18-26G



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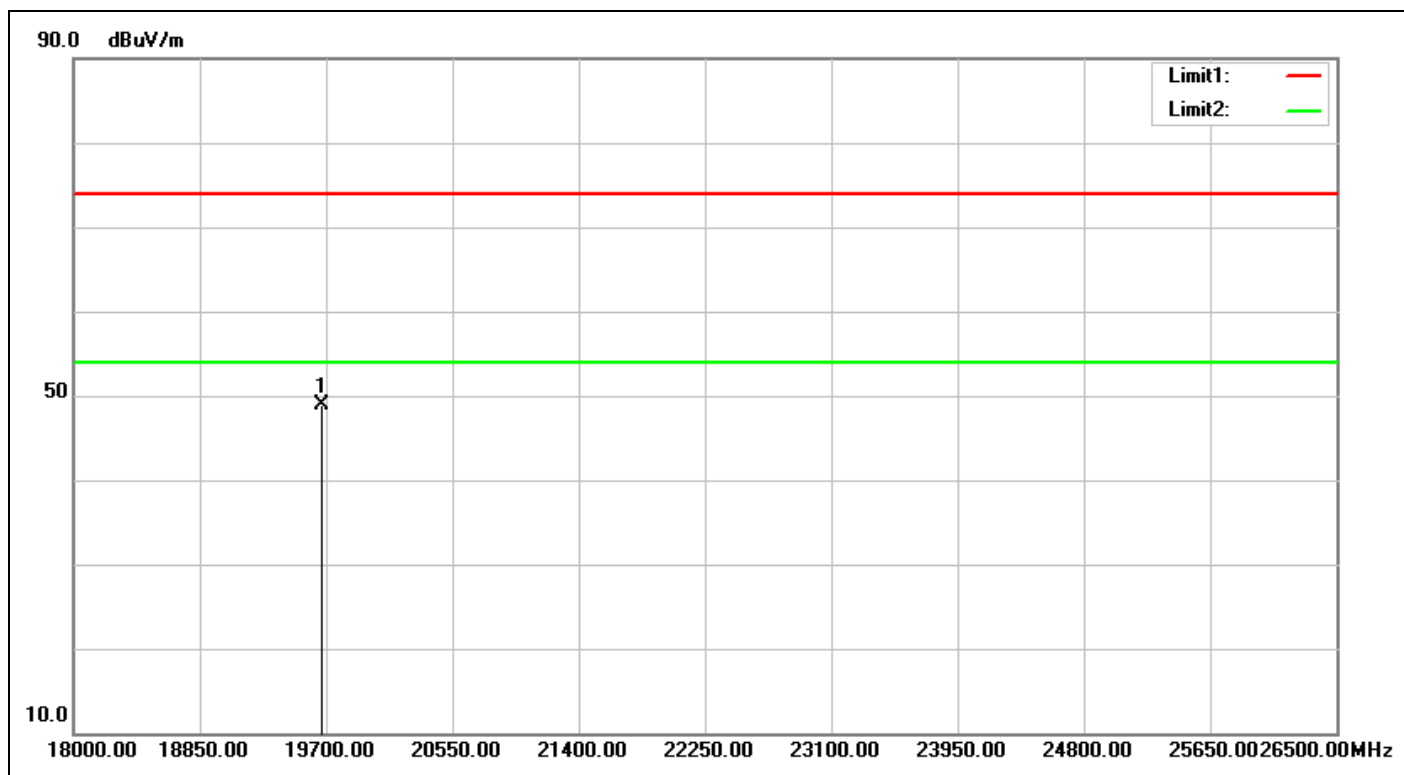
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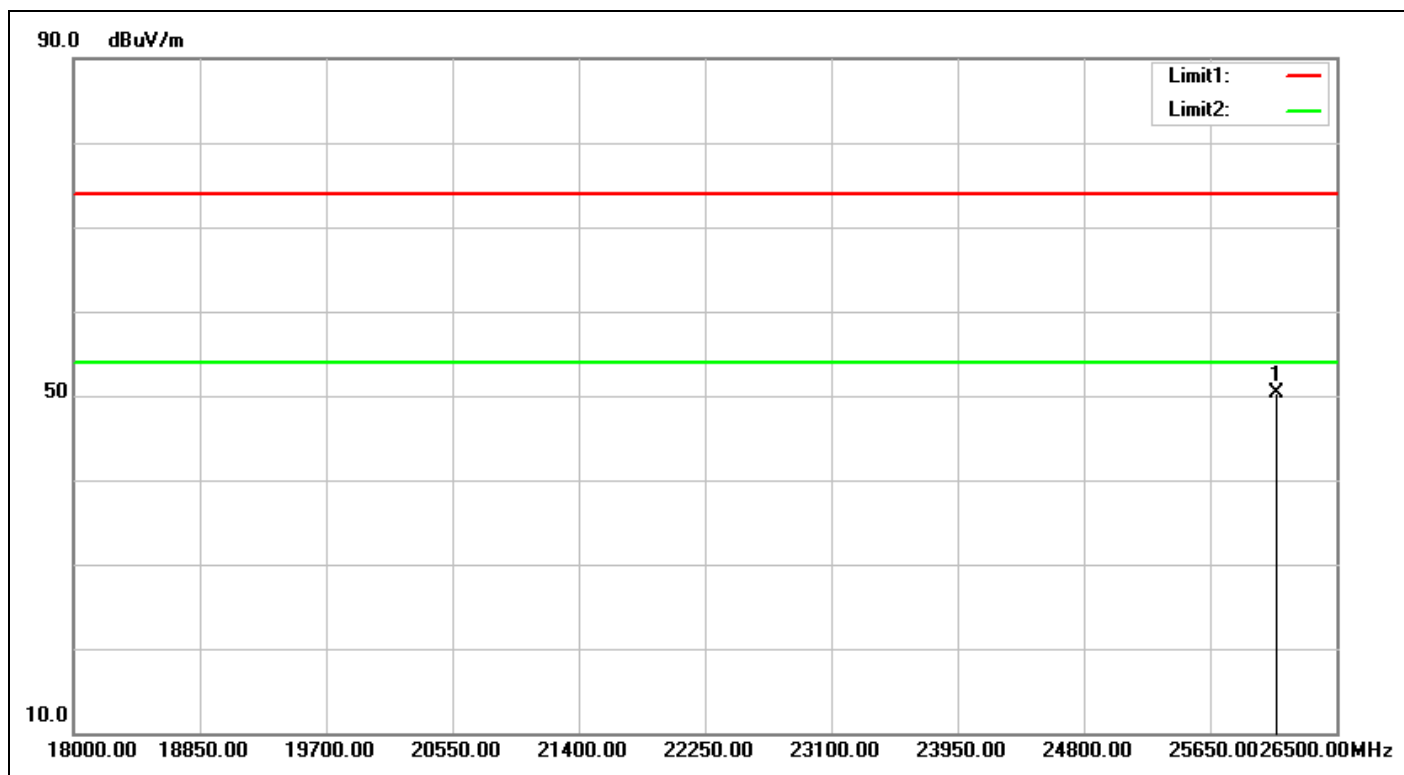
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:55:23
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	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	18153.000	29.07	20.77	49.84	74.00	-24.16	peak		0	



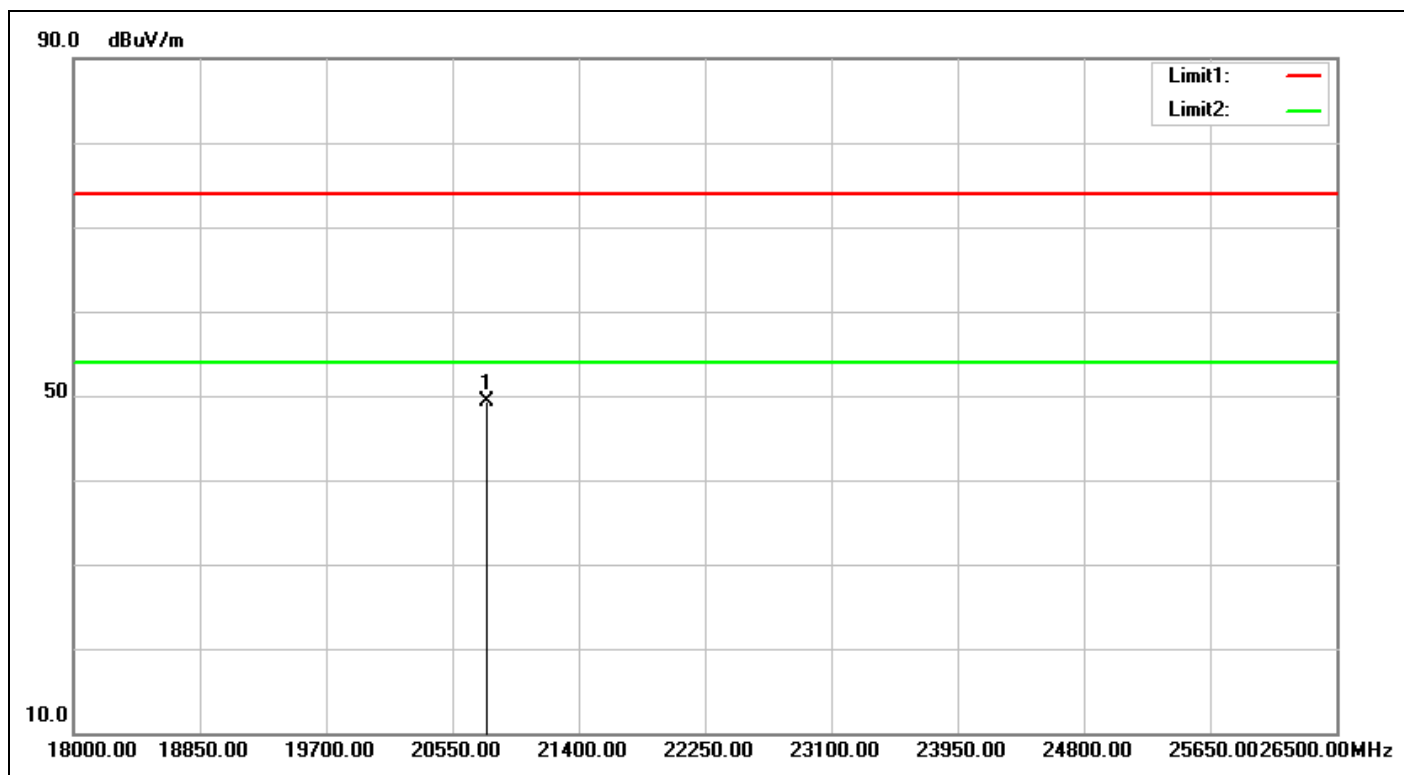
Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:55:34
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test 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	19674.500	29.66	19.21	48.87	74.00	-25.13	peak			



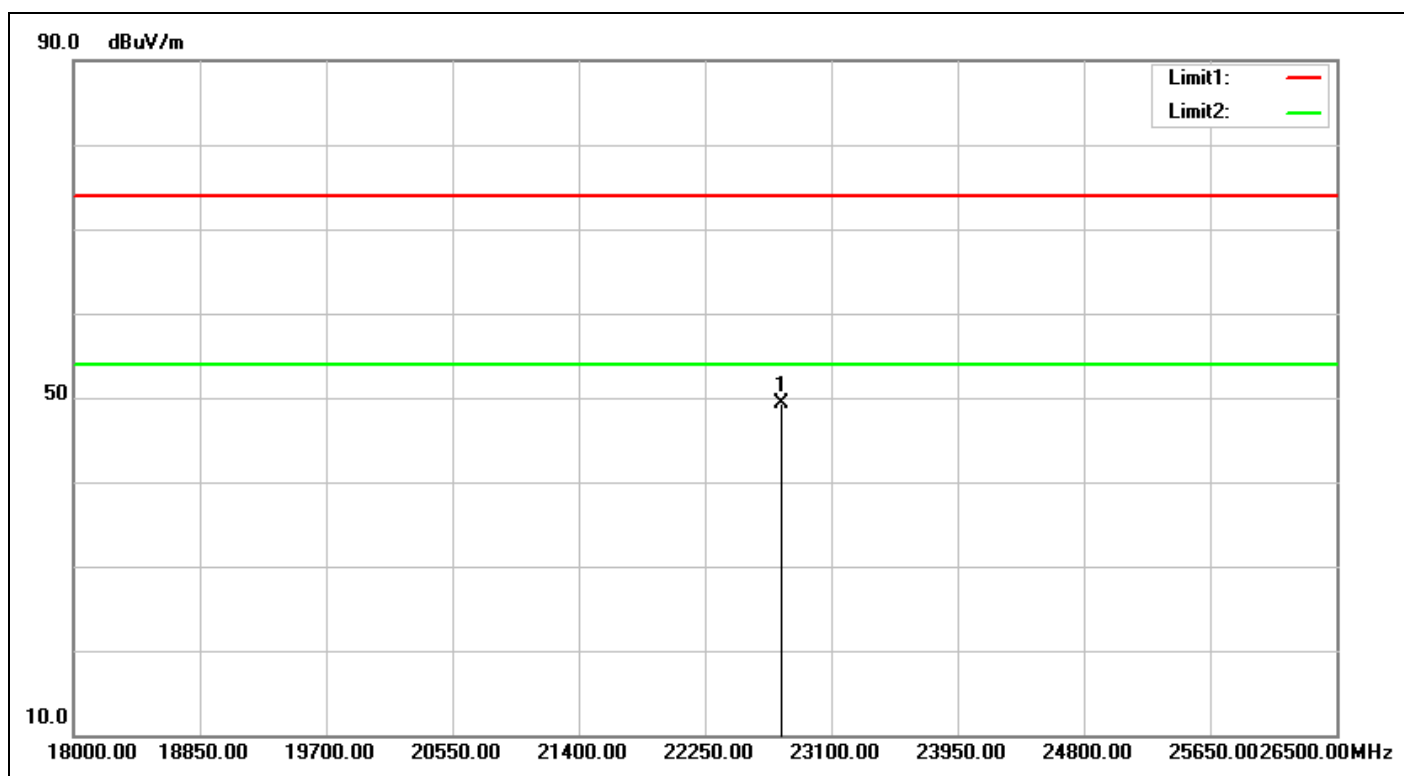
Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:55:47
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
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	26092.000	31.78	18.46	50.24	74.00	-23.76	peak			



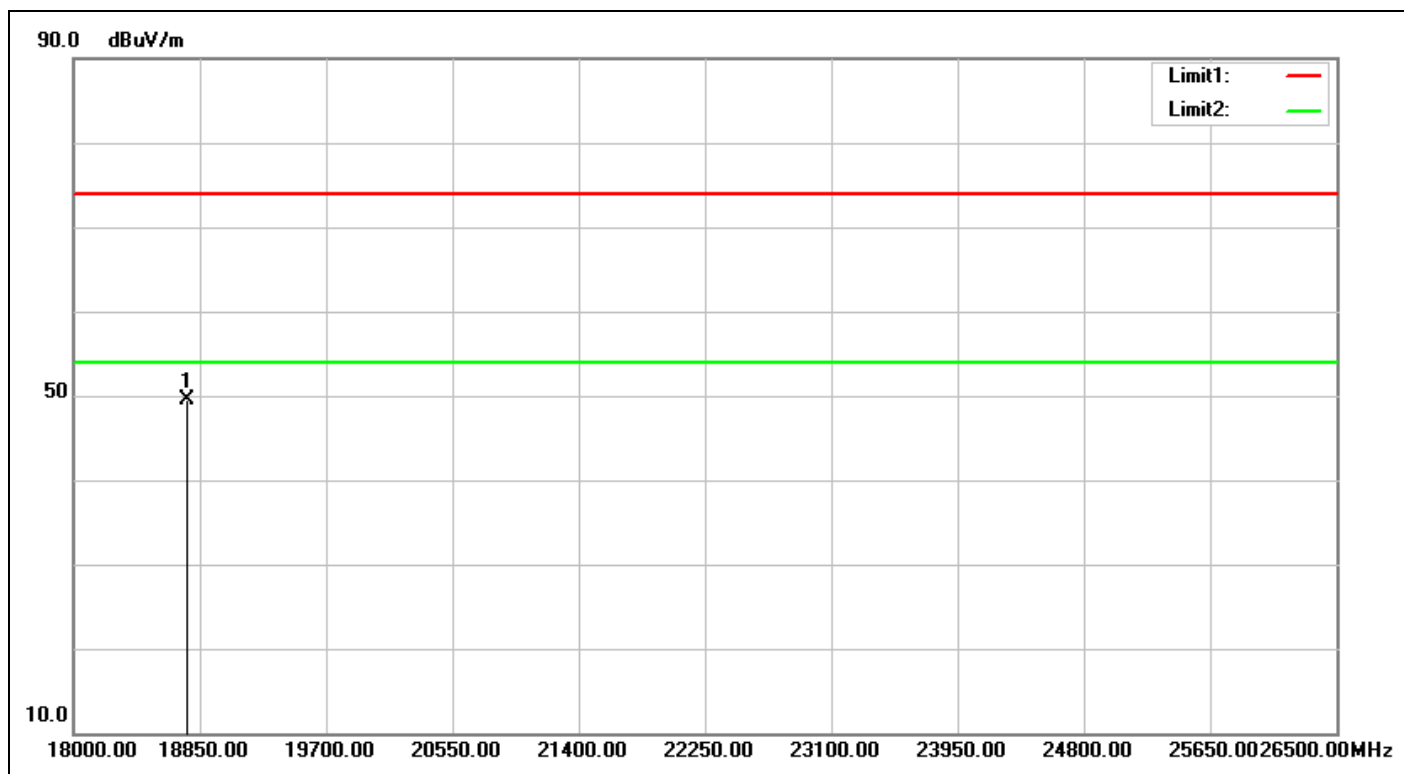
Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:55:56
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test 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	20779.500	29.81	19.46	49.27	74.00	-24.73	peak			



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:56:13
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	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	22760.000	29.91	19.49	49.40	74.00	-24.60	peak			



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:56:28
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	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	18765.000	29.22	20.28	49.50	74.00	-24.50	peak			

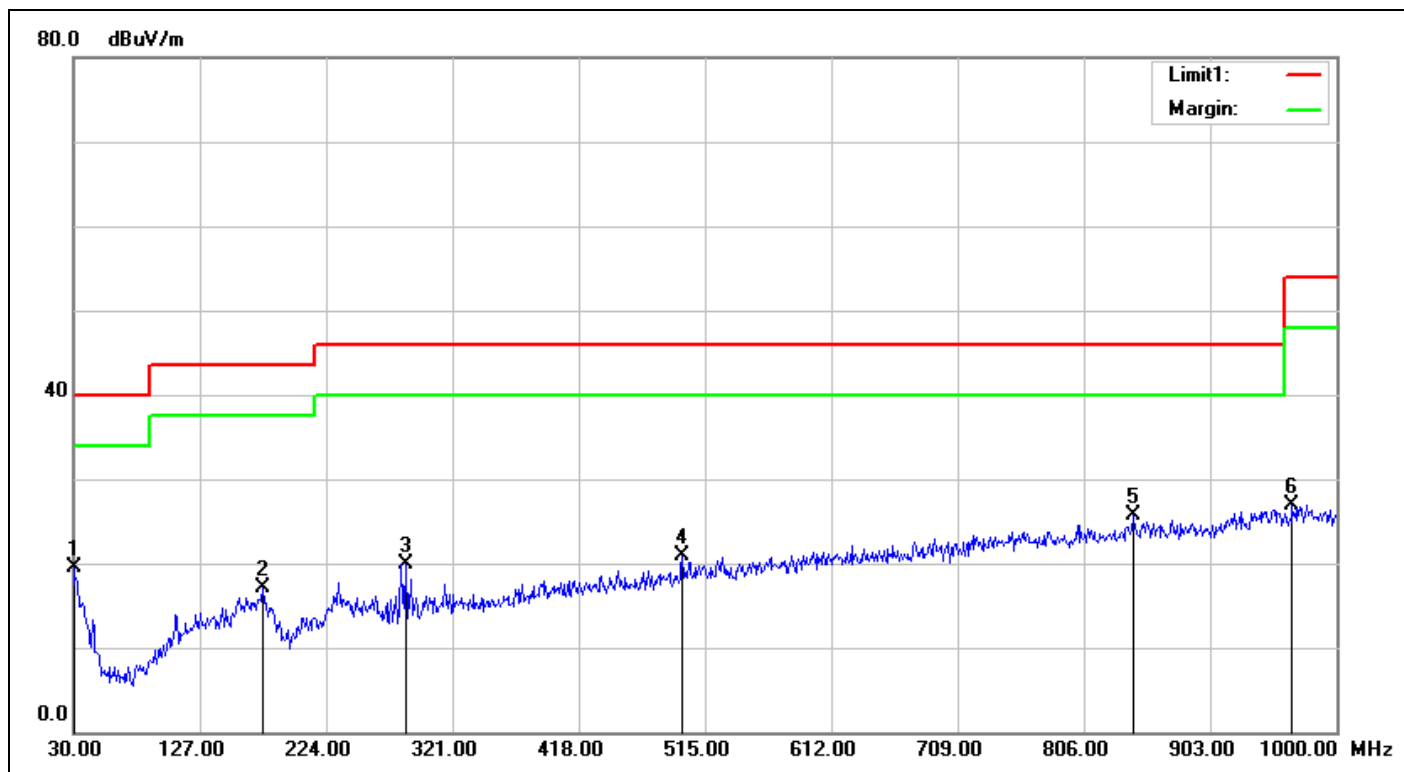
Spurious Emissions, TX Mode, 30M-1G



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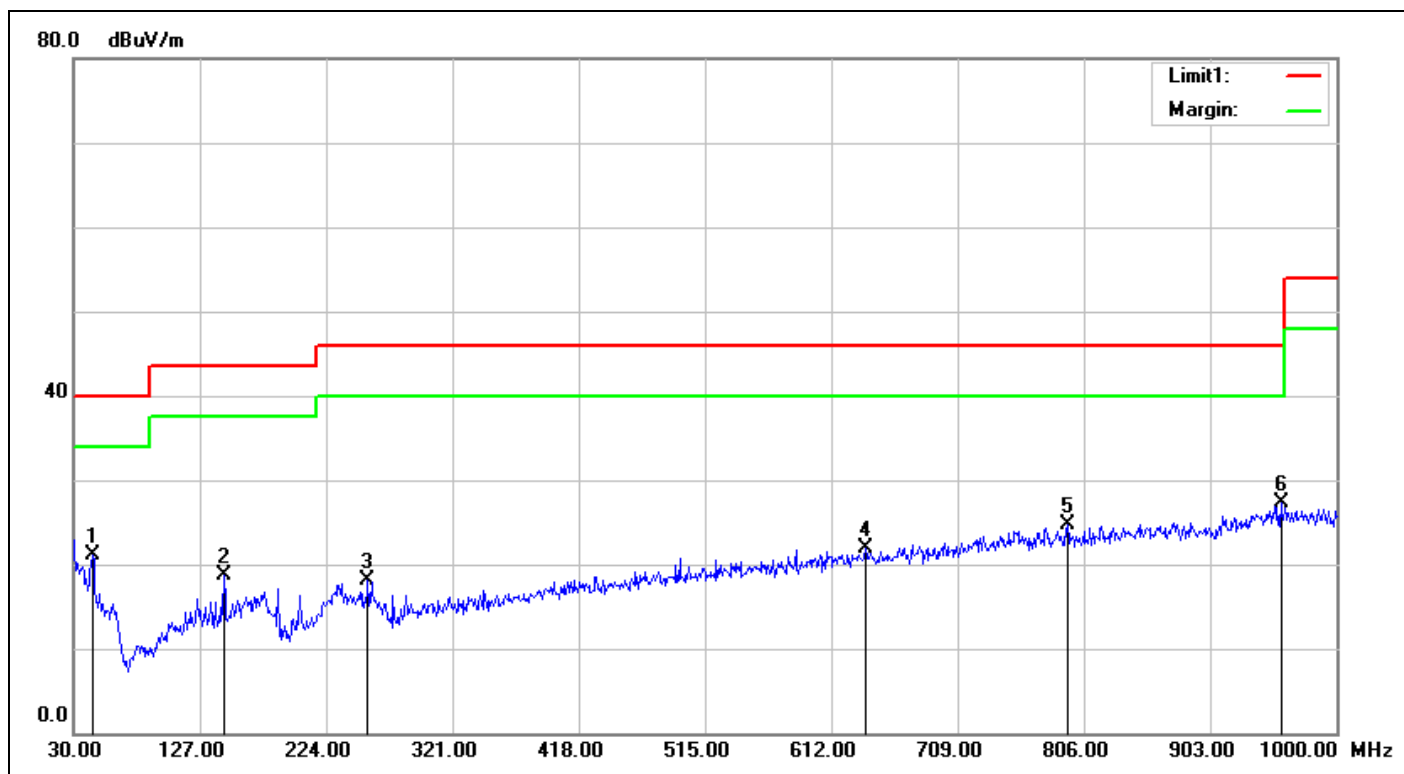
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Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 16:41:13
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	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	-5.98	25.54	19.56	40.00	-20.44	QP	100	193	
2	175.5000	-15.21	32.22	17.01	43.50	-26.49	QP	100	102	
3	285.1099	-10.95	30.94	19.99	46.00	-26.01	QP	100	127	
4	497.5400	-7.28	28.14	20.86	46.00	-25.14	QP	100	236	
5	843.8300	-2.54	28.27	25.73	46.00	-20.27	QP	100	43	
6	966.0499	-0.35	27.35	27.00	54.00	-27.00	QP	100	339	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 16:42:16
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	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	44.5500	-14.22	35.34	21.12	40.00	-18.88	QP	100	346	
2	145.4299	-13.07	31.80	18.73	43.50	-24.77	QP	100	290	
3	256.0100	-11.11	29.26	18.15	46.00	-27.85	QP	100	187	
4	638.1900	-5.53	27.45	21.92	46.00	-24.08	QP	100	56	
5	793.3900	-3.25	27.87	24.62	46.00	-21.38	QP	100	2	
6	957.3200	-0.36	27.69	27.33	46.00	-18.67	QP	100	293	

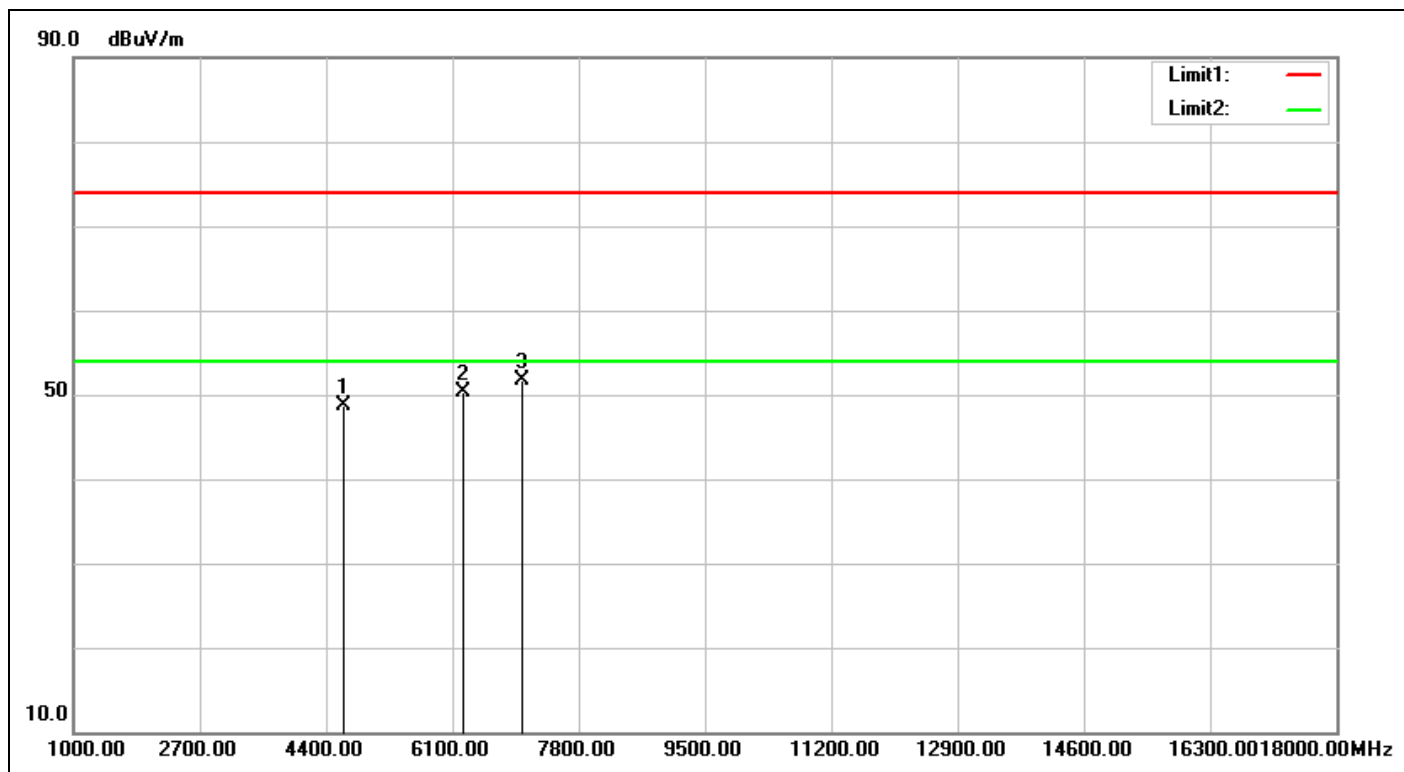
Spurious Emissions, RX Mode, 1-18G



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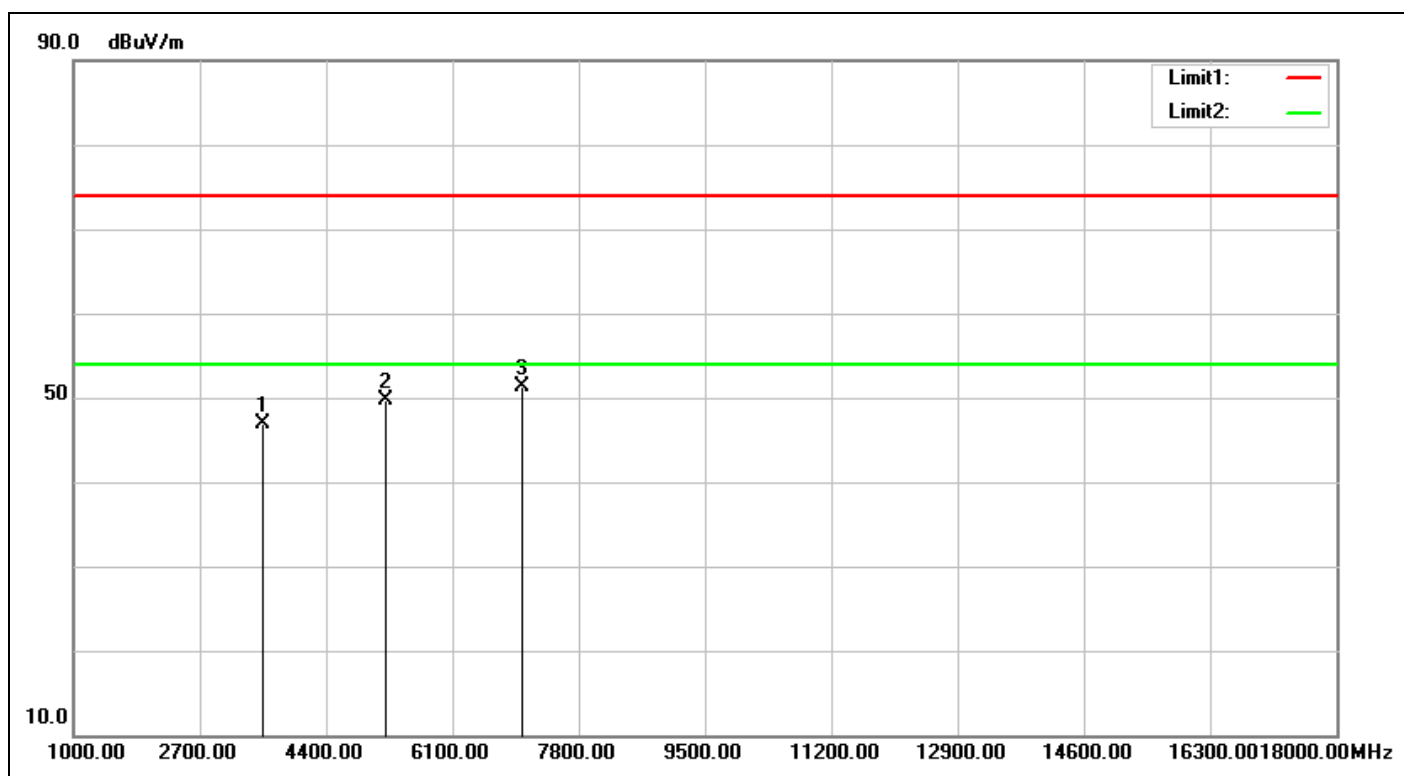
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Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:38:36
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4638.000	-3.00	51.77	48.77	74.00	-25.23	peak	100	0	
2	6253.000	4.73	45.64	50.37	74.00	-23.63	peak	100	20	
3	7035.000	5.07	46.70	51.77	74.00	-22.23	peak	100	136	



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:39:39
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3550.000	-5.81	52.68	46.87	74.00	-27.13	peak	100	257	
2	5199.000	-1.15	50.93	49.78	74.00	-24.22	peak	100	102	
3	7035.000	5.07	46.21	51.28	74.00	-22.72	peak	100	96	

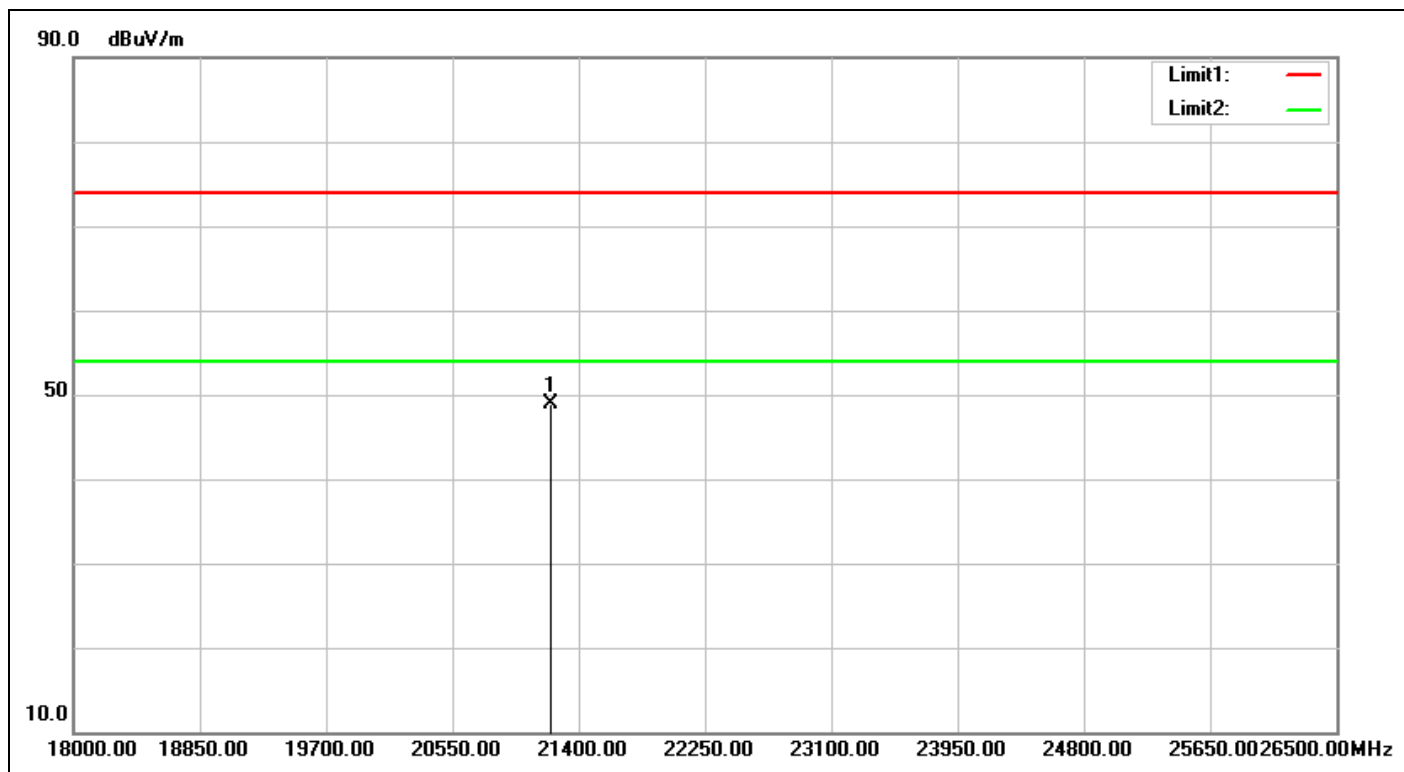
Spurious Emissions, RX Mode, 18-26G



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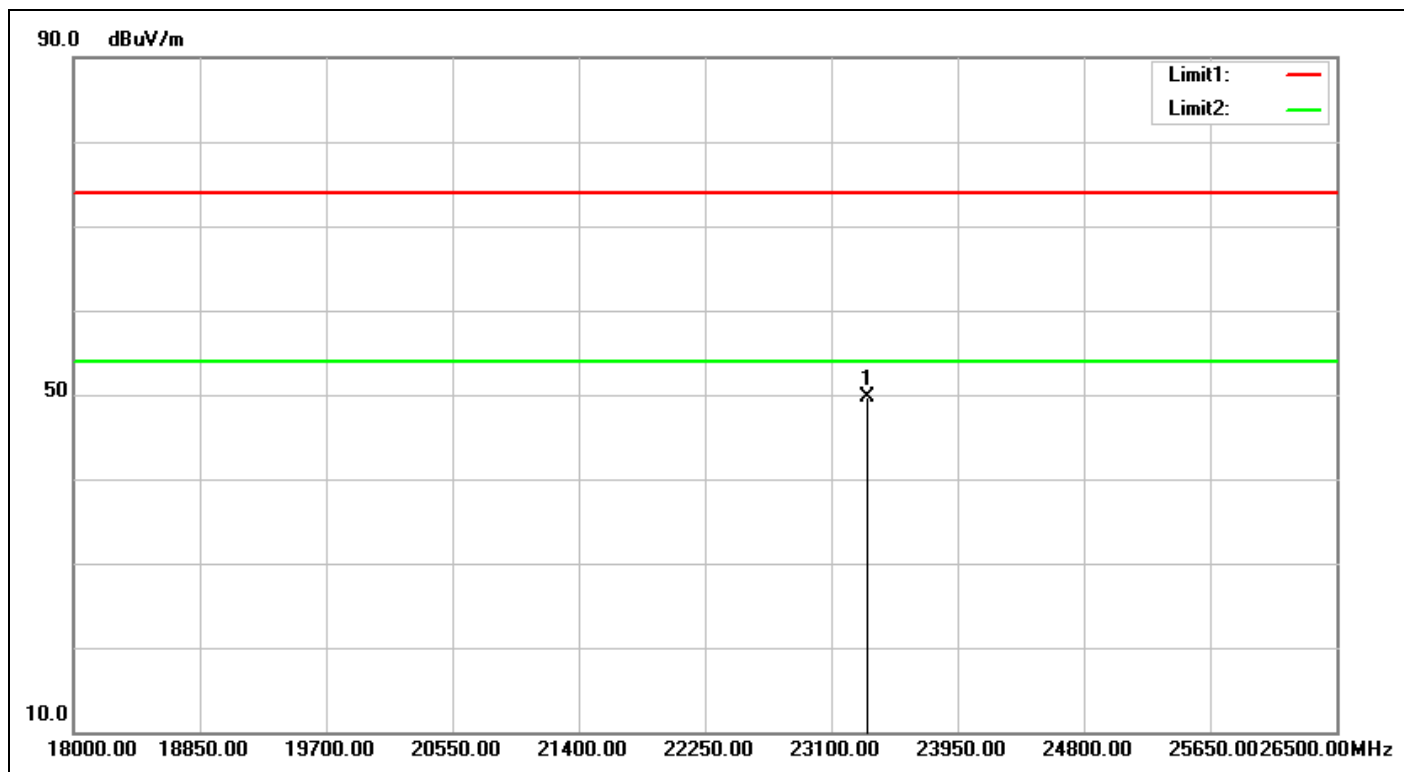
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Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 15:56:43
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21213.000	29.76	19.05	48.81	74.00	-25.19	peak			



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 15:56:53
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23346.500	30.00	19.62	49.62	74.00	-24.38	peak			

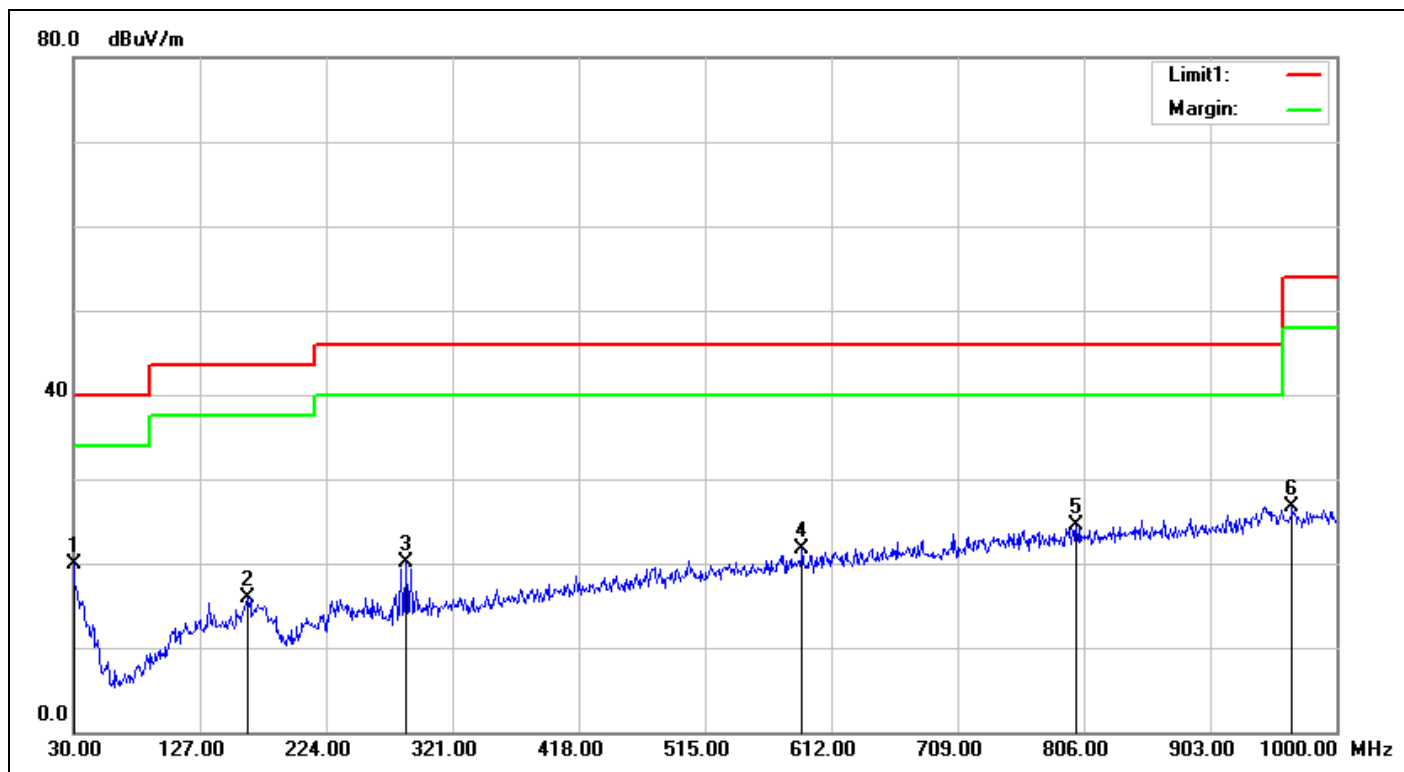
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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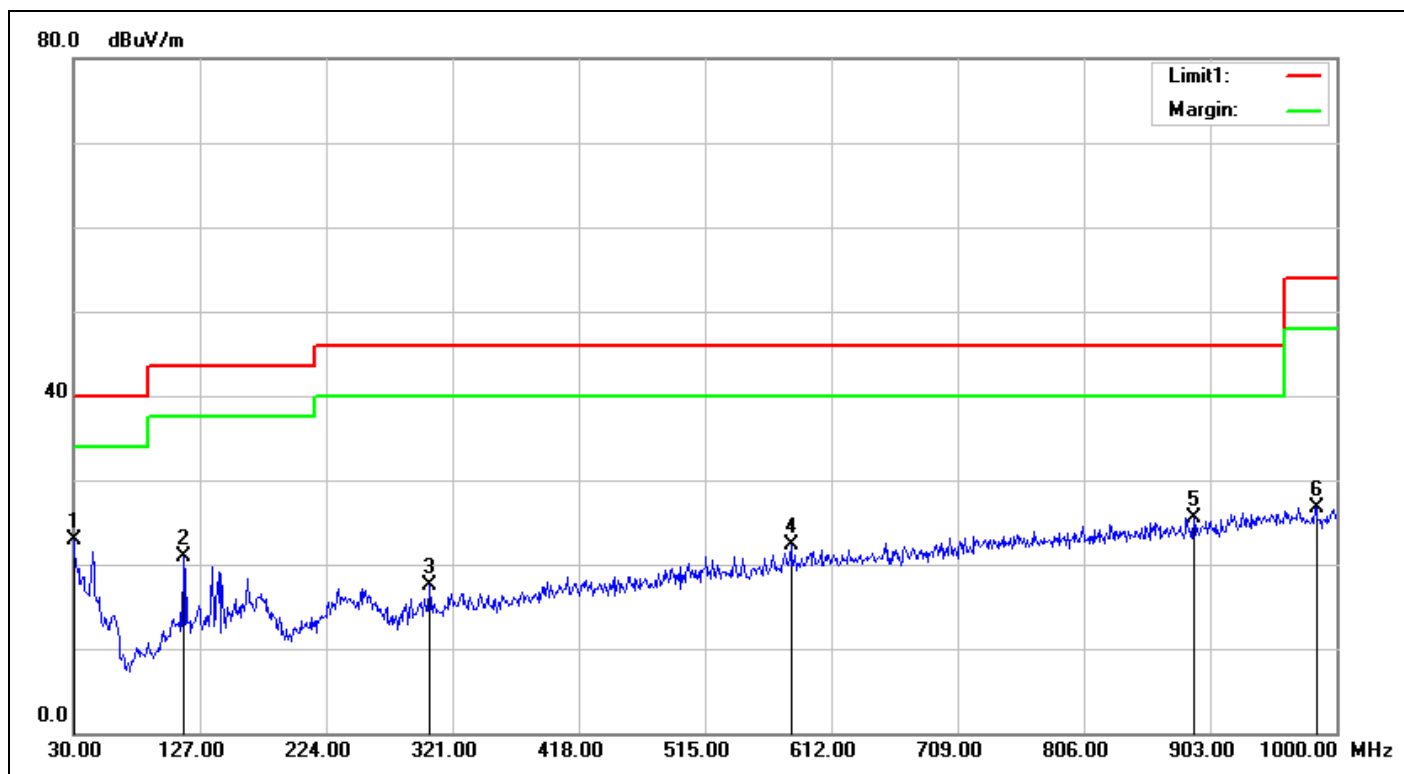
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/8/17 16:43:53
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%):	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test Mode:	2440-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	-5.98	25.79	19.81	40.00	-20.19	QP	100	310	
2	163.8600	-14.18	30.18	16.00	43.50	-27.50	QP	100	117	
3	285.1099	-10.95	31.03	20.08	46.00	-25.92	QP	100	131	
4	589.6900	-6.07	27.85	21.78	46.00	-24.22	QP	100	244	
5	800.1799	-3.21	27.79	24.58	46.00	-21.42	QP	100	181	
6	966.0499	-0.35	26.99	26.64	54.00	-27.36	QP	100	64	

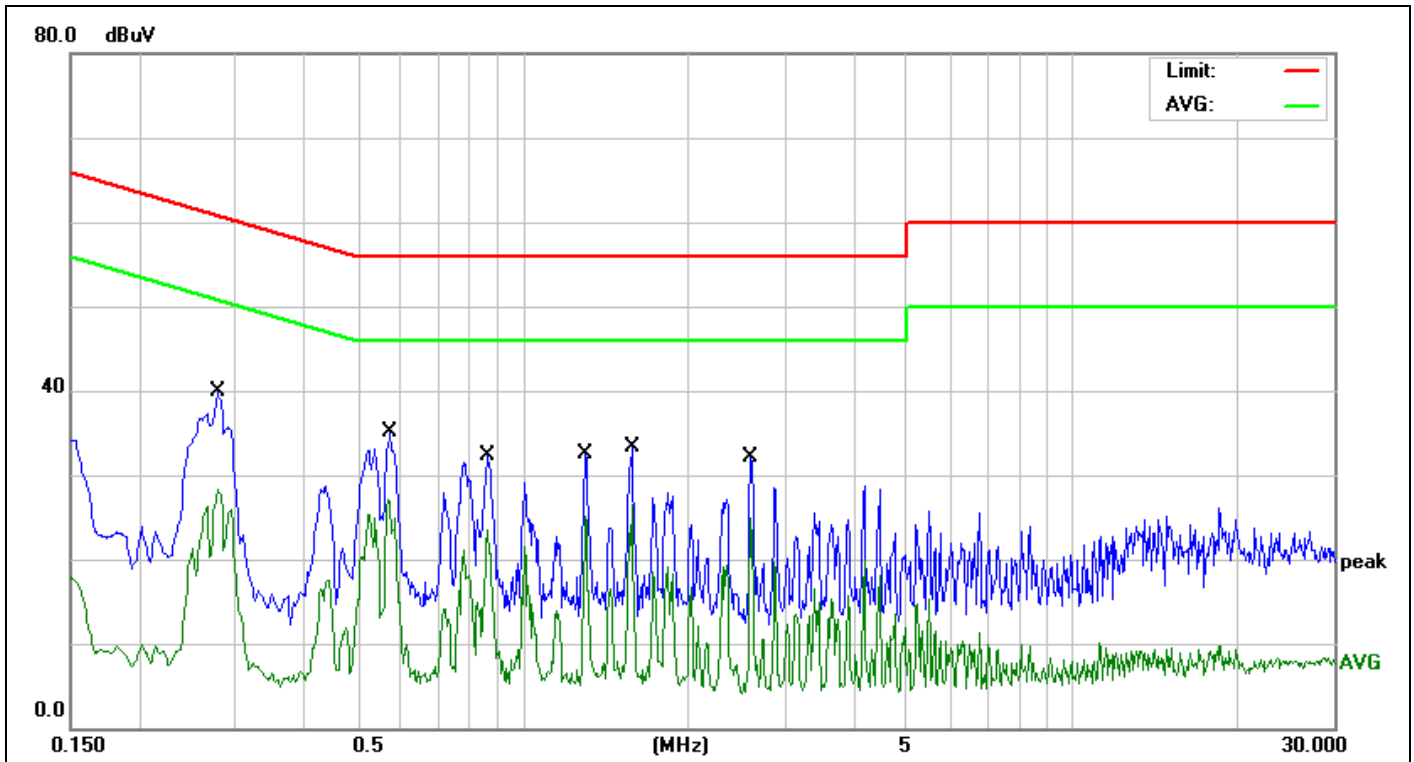
Spurious Emissions, RX Mode, 30M-1G



Service No.:	114044687	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/8/17 16:44:56
Applicant:	QT Medical	Test Rating:	DC 3.7V
Product:	QT ECG	Temp.(°C)/Hum.(%)	22.6(°C)/53%
Model No.:	QTERD100	Test Engineer:	George Yang
Test Mode:	2440-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	-5.98	28.93	22.95	40.00	-17.05	QP	100	28	
2	114.3900	-13.32	34.18	20.86	43.50	-22.64	QP	100	272	
3	303.5400	-10.37	27.86	17.49	46.00	-28.51	QP	100	264	
4	580.9600	-6.20	28.43	22.23	46.00	-23.77	QP	100	277	
5	890.3900	-2.13	27.72	25.59	46.00	-20.41	QP	100	62	
6	984.4800	-0.34	27.12	26.78	54.00	-27.22	QP	100	343	

Mains Spurious Emissions



Service No.: 114044687

Test Standard: NCC Class B(QP)

Probe: N

Test item: Conduction Emission

Test Time: 2016/8/17 17:04:22

Applicant: QT Medical

Test Rating: DC 3.7V

Product: QT ECG

Temp.(°C)/Hum.(%): 23(°C)/46%

Model No.: QTERD100

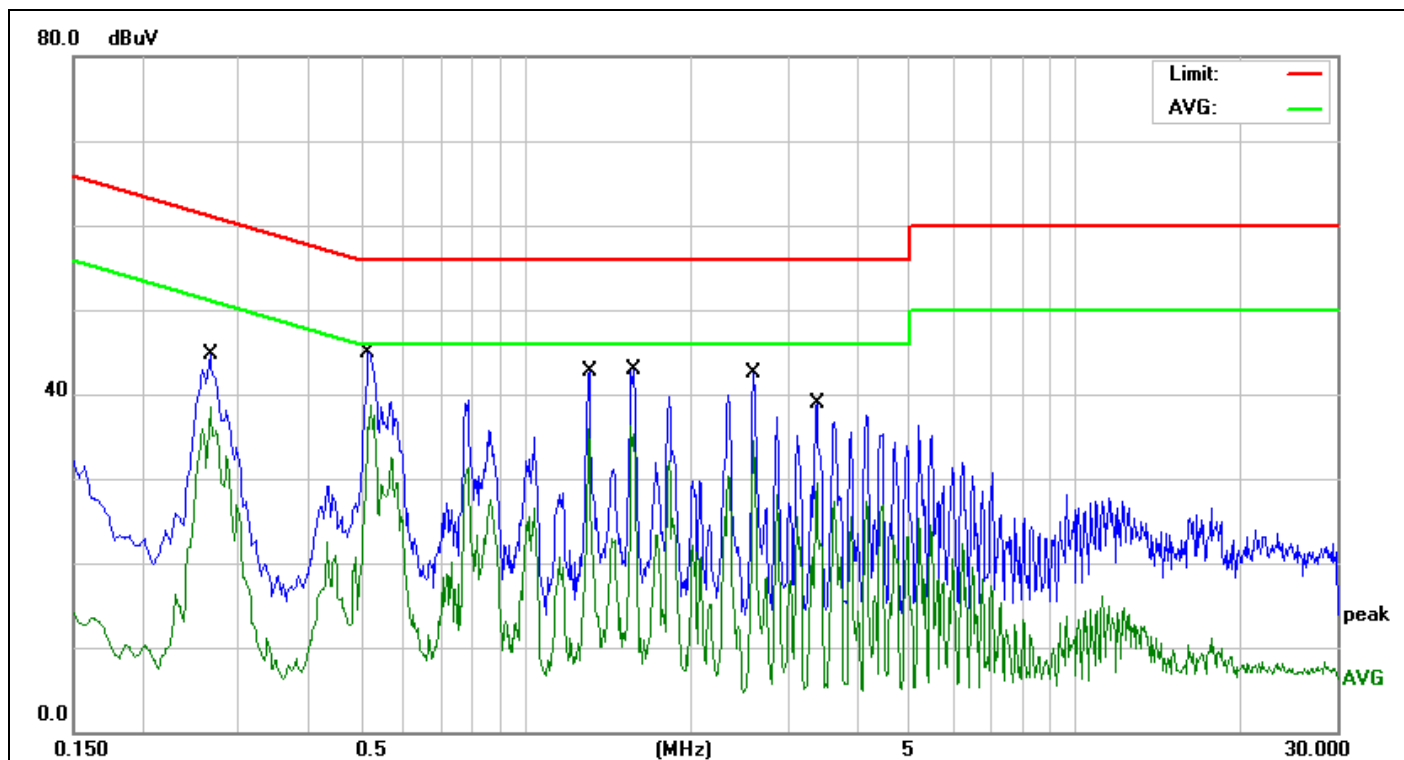
Test Engineer: George Yang

Test Mode: Mains

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.2780	9.68	28.74	38.42	60.88	-22.46	QP	
2	0.2780	9.68	20.05	29.73	50.88	-21.15	AVG	
3	0.5700	9.69	22.96	32.65	56.00	-23.35	QP	
4	0.5700	9.69	17.16	26.85	46.00	-19.15	AVG	
5	0.8620	9.70	20.22	29.92	56.00	-26.08	QP	
6	0.8620	9.70	12.15	21.85	46.00	-24.15	AVG	
7	1.3020	9.70	19.86	29.56	56.00	-26.44	QP	
8	1.3020	9.70	14.77	24.47	46.00	-21.53	AVG	
9	1.5780	9.71	18.62	28.33	56.00	-27.67	QP	
10	1.5780	9.71	11.41	21.12	46.00	-24.88	AVG	
11	2.6060	9.71	19.50	29.21	56.00	-26.79	QP	
12	2.6060	9.71	14.55	24.26	46.00	-21.74	AVG	

Spurious Emissions, Mains, 150kHz - 30MHz



Service No.: 114044687

Test Standard: NCC Class B(QP)

Probe: L1

Test item: Conduction Emission

Test Time: 2016/8/17 17:01:58

Applicant: QT Medical

Test Rating: DC 3.7V

Product: QT ECG

Temp.(°C)/Hum.(%): 23(°C)/46%

Model No.: QTERD100

Test Engineer: George Yang

Test Mode: Mains

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.2660	9.75	23.58	33.33	61.24	-27.91	QP	
2	0.2660	9.75	16.55	26.30	51.24	-24.94	AVG	
3	0.5220	9.75	30.78	40.53	56.00	-15.47	QP	
4	0.5220	9.75	25.81	35.56	46.00	-10.44	AVG	
5	1.3020	9.76	30.58	40.34	56.00	-15.66	QP	
6	1.3020	9.76	25.13	34.89	46.00	-11.11	AVG	
7	1.5580	9.76	26.62	36.38	56.00	-19.62	QP	
8	1.5580	9.76	17.41	27.17	46.00	-18.83	AVG	
9	2.6020	9.78	30.86	40.64	56.00	-15.36	QP	
10	2.6020	9.78	22.25	32.03	46.00	-13.97	AVG	
11	3.3820	9.80	23.53	33.33	56.00	-22.67	QP	
12	3.3820	9.80	13.94	23.74	46.00	-22.26	AVG	