

Test Report No.50066697 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50066697AppendixD)

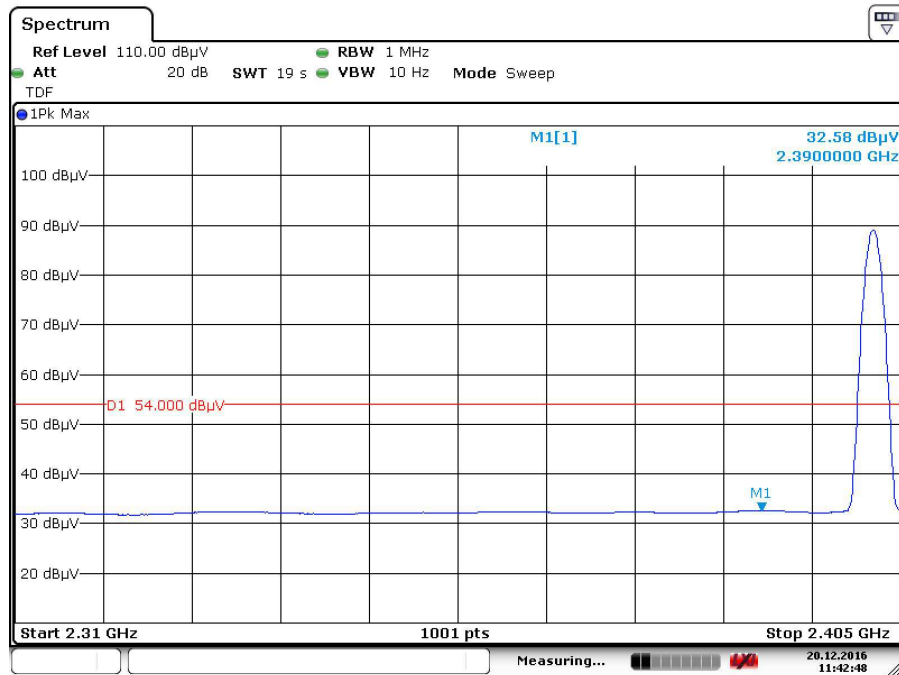
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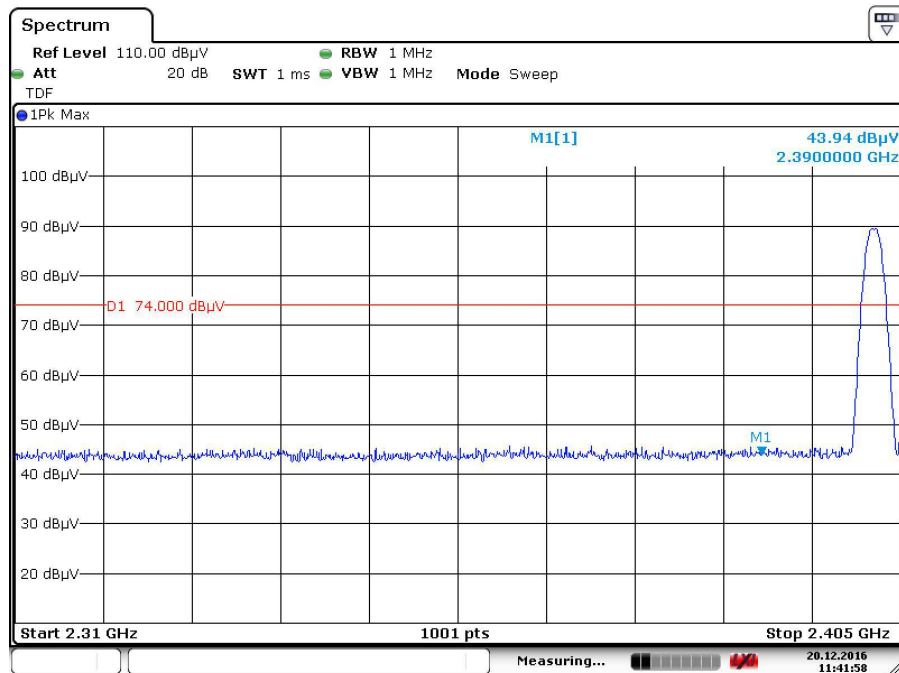
Spurious Emissions, Band Edges, 2.35-2.5G

Radiated Bandedge (GFSK)

Low Channel (Hor)



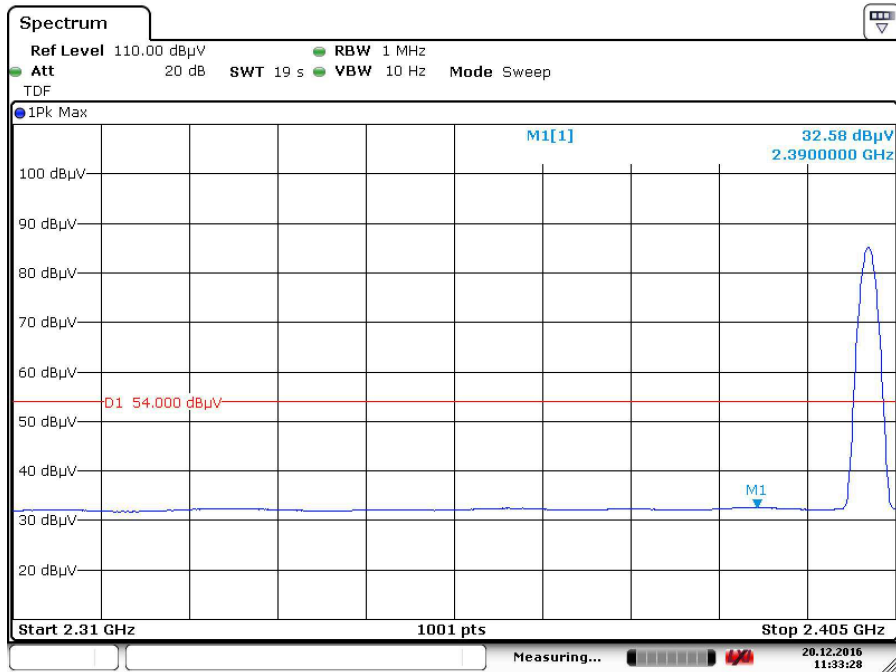
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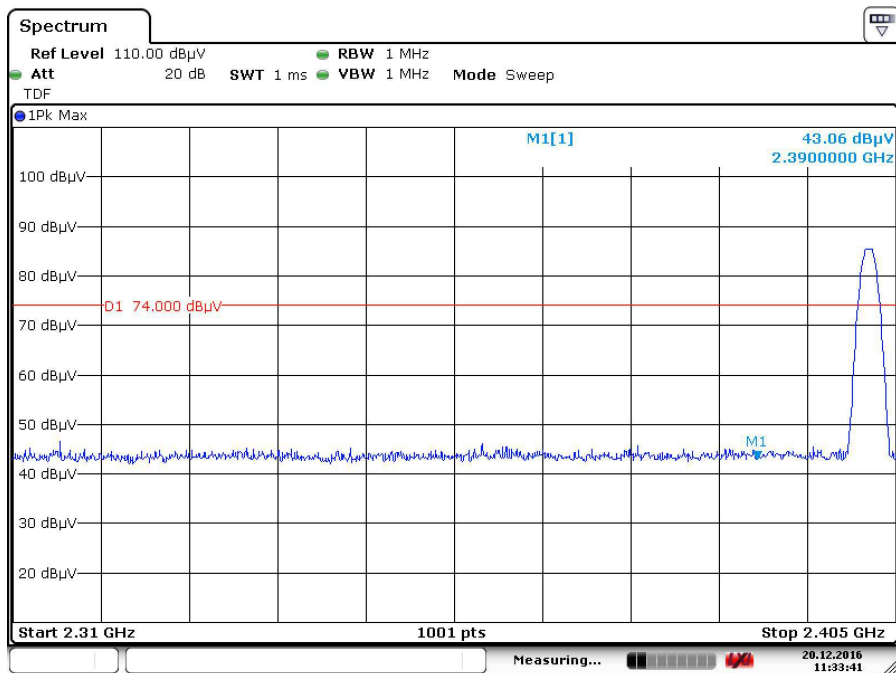
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Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 20.DEC.2016 11:33:27

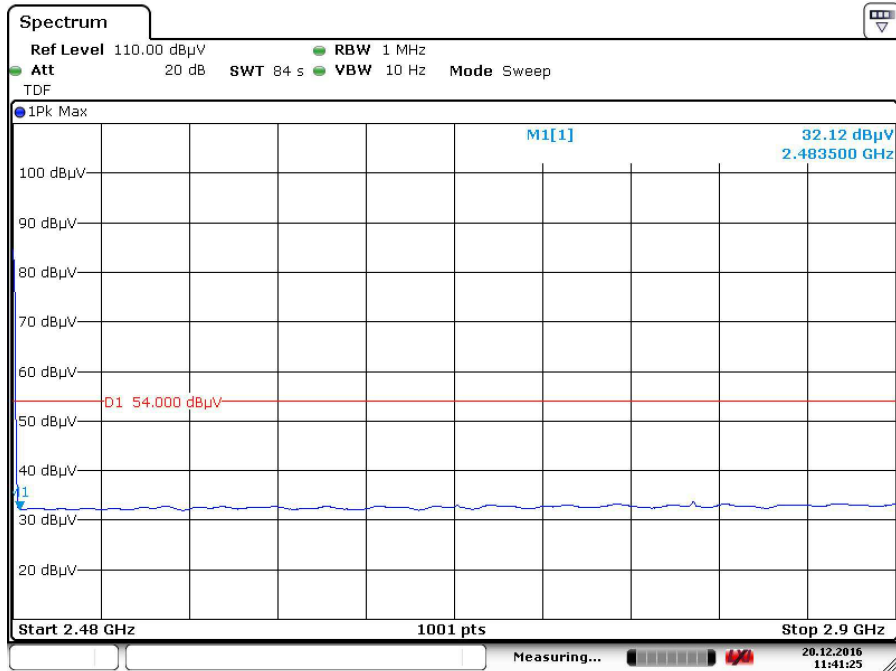


Date: 20.DEC.2016 11:33:41

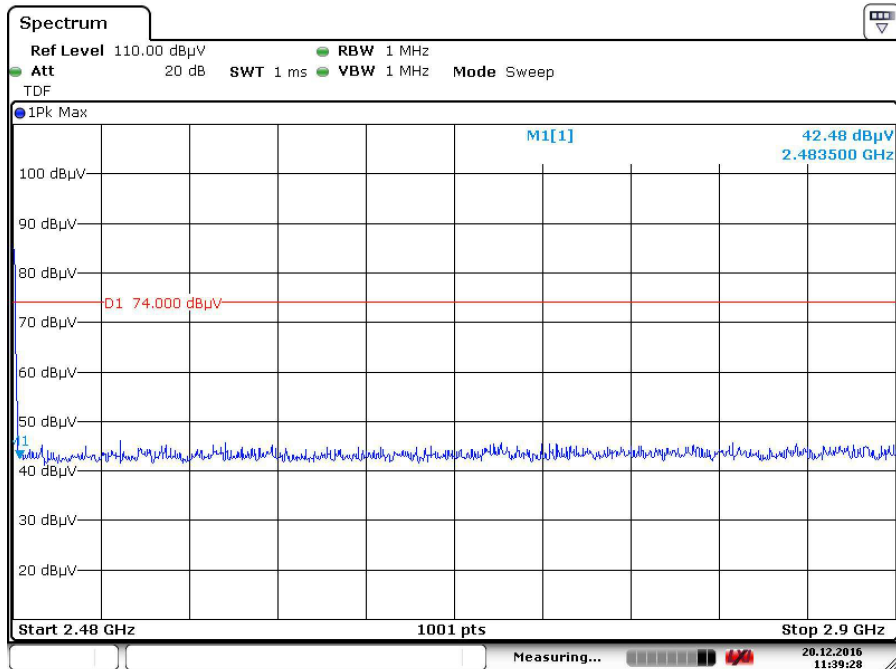
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (GFSK)

High Channel (Hor)



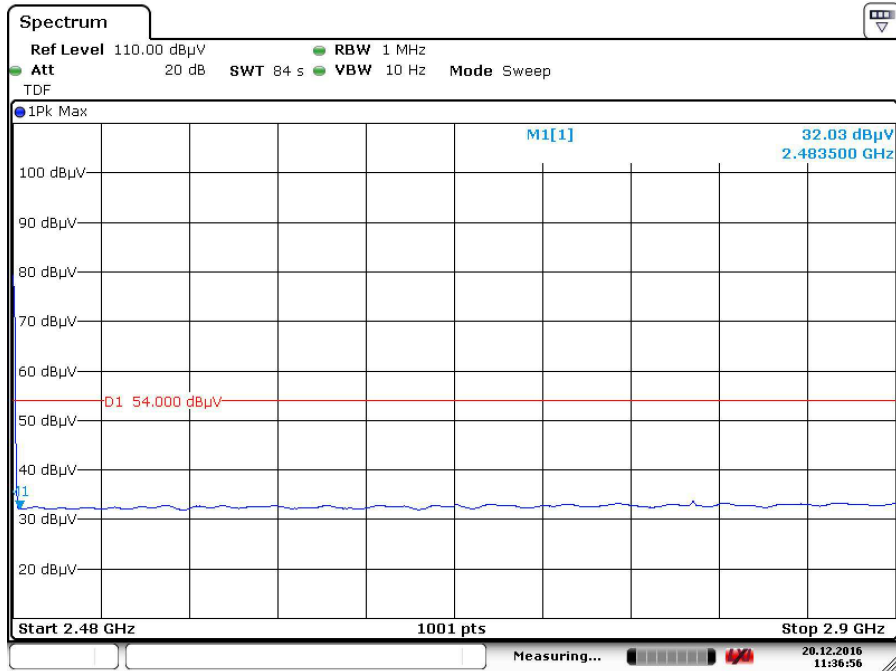
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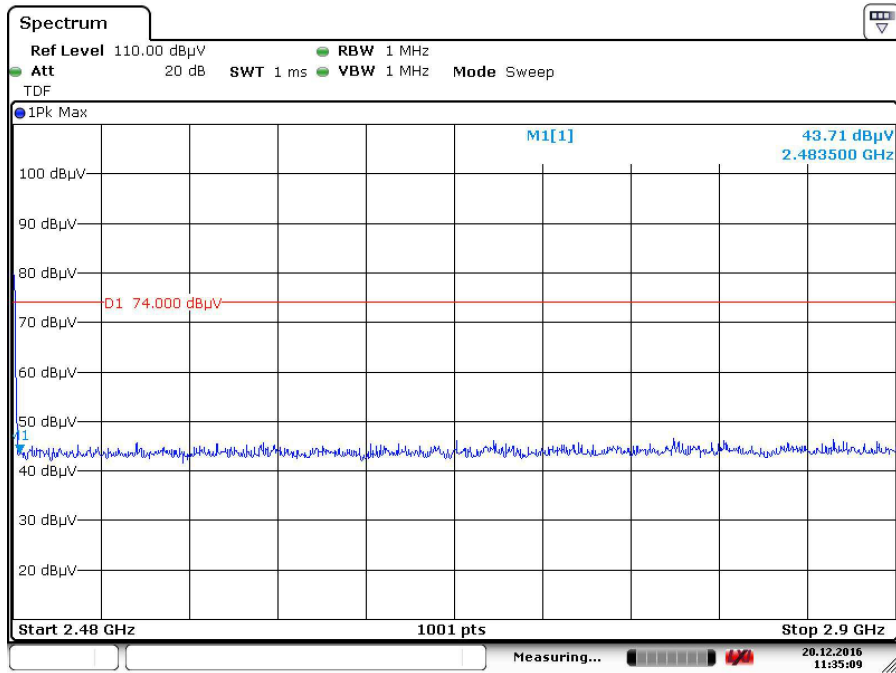
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Date: 20.DEC.2016 11:36:56



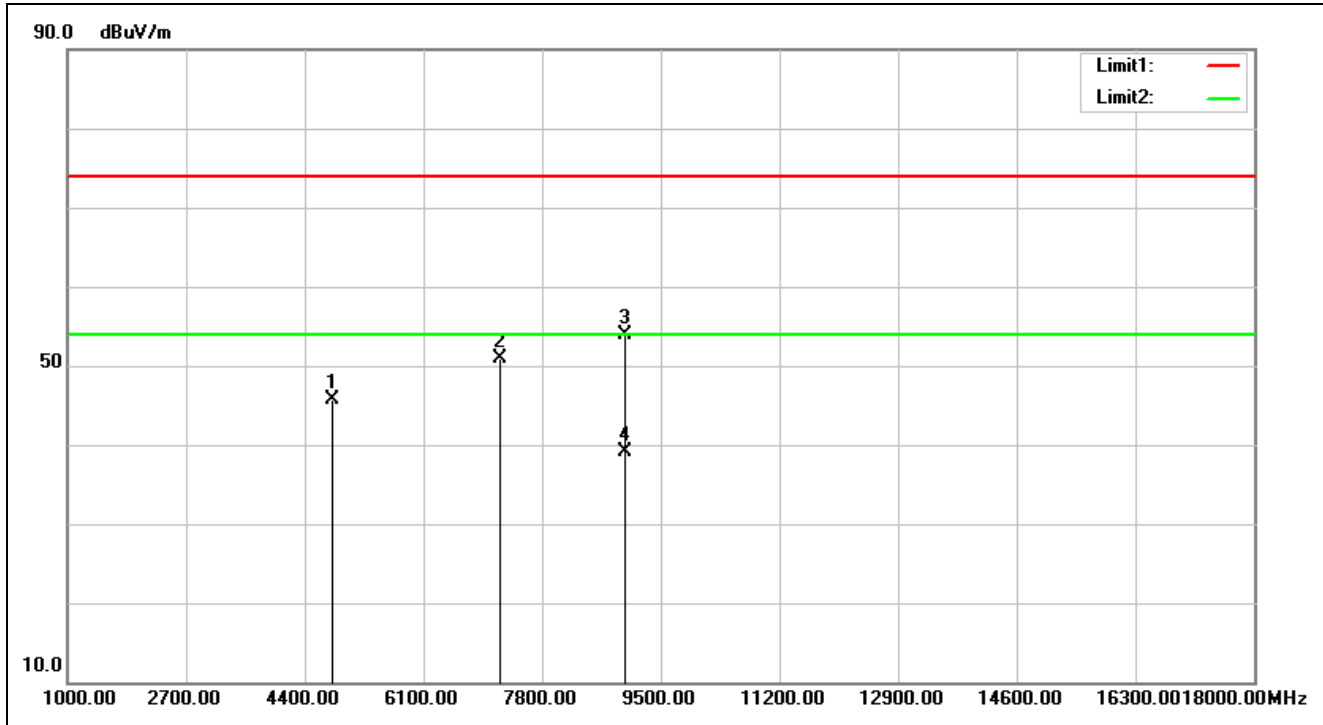
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Spurious Emissions, Band Edge, 2.35-2.5G

Spurious Emissions, TX Mode, 1-18G



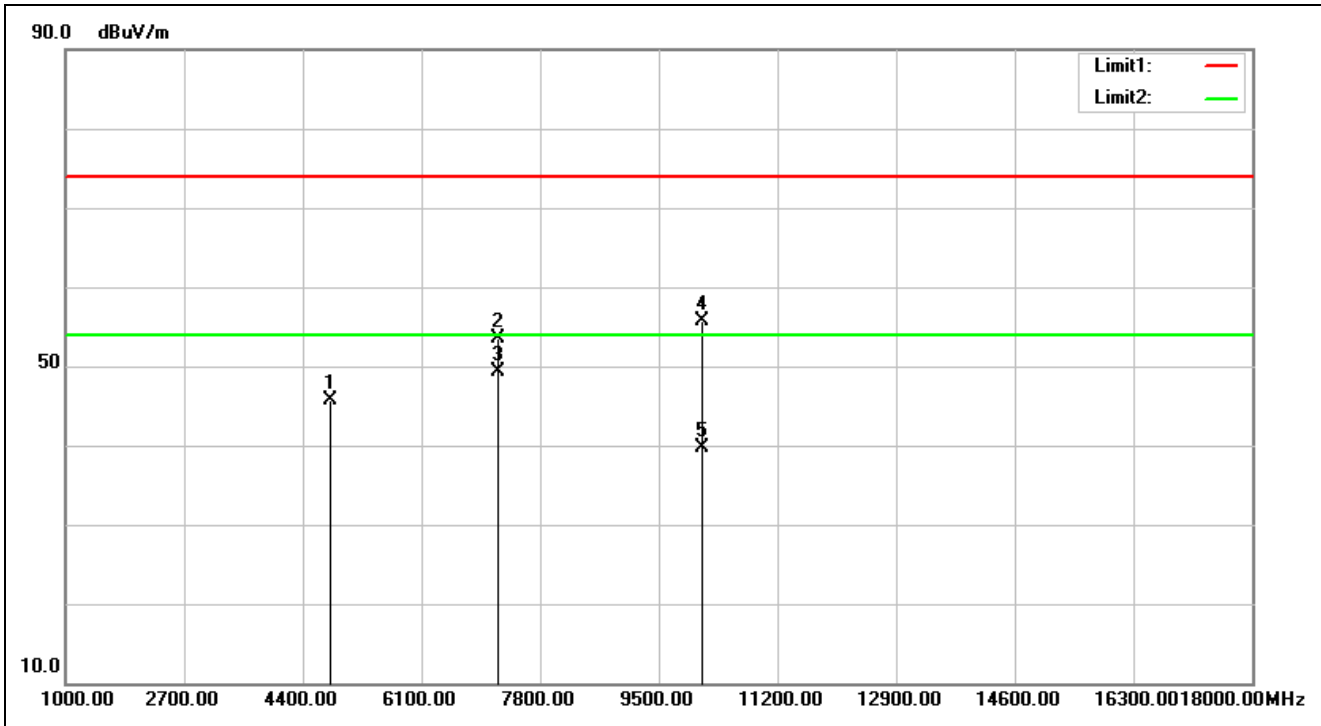
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Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 10:12:33
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2402-TX		
Remark:			

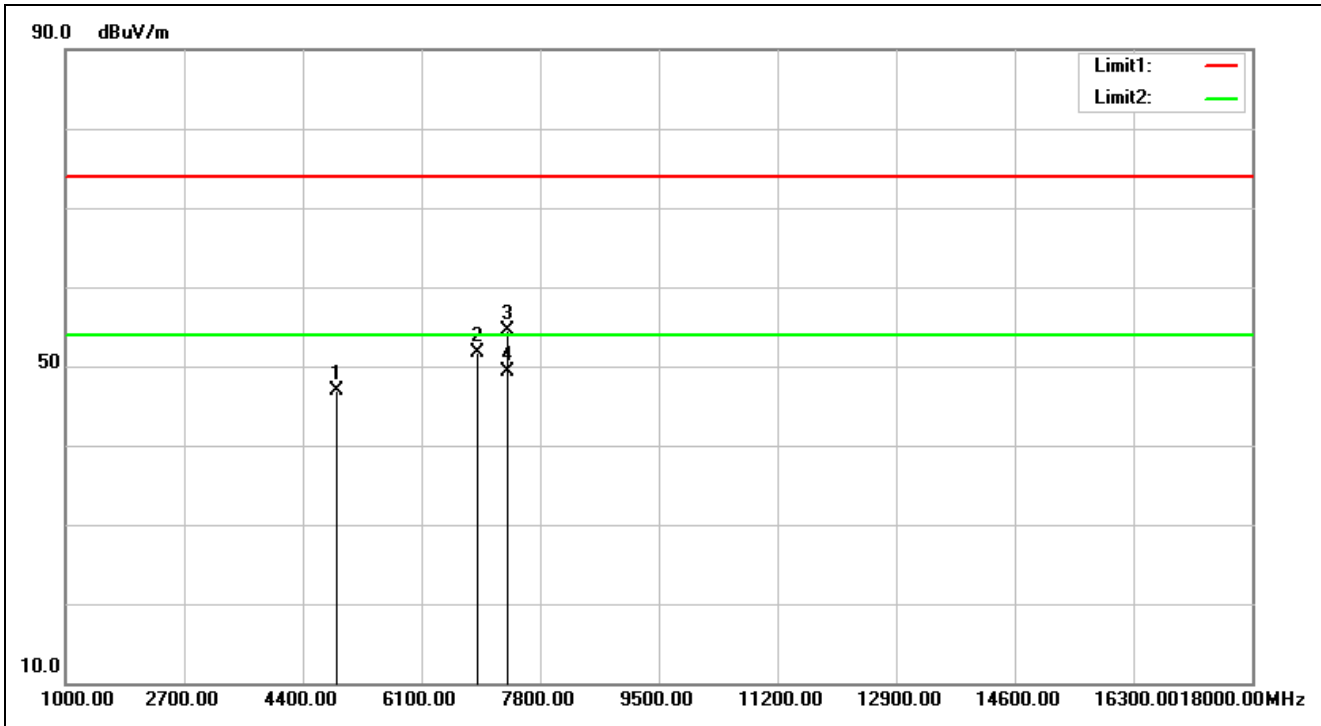
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.66	48.40	45.74	74.00	-28.26	peak		0	
2	7206.000	5.58	45.26	50.84	74.00	-23.16	peak		0	
3	8990.000	6.90	47.01	53.91	74.00	-20.09	peak	100	239	
4	8990.000	6.90	32.12	39.02	54.00	-14.98	AVG	100	239	

Spurious Emissions, TX Mode, 18-26G



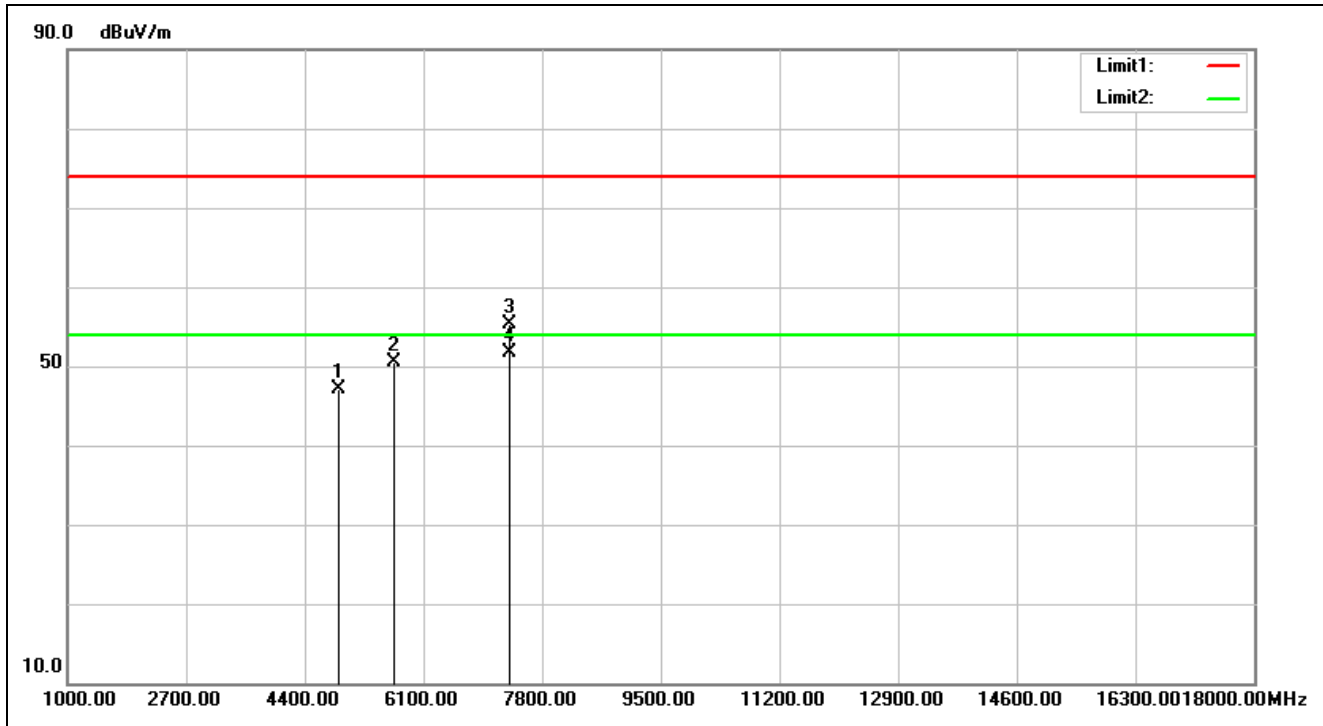
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 10:13:36
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2402-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	48.42	45.76	74.00	-28.24	peak			
2	7206.000	5.58	47.92	53.50	74.00	-20.50	peak	100	288	
3	7206.000	5.58	43.71	49.29	54.00	-4.71	AVG	100	288	
4	10129.000	5.37	50.31	55.68	74.00	-18.32	peak	100	50	
5	10129.000	5.37	34.33	39.70	54.00	-14.30	AVG	100	50	



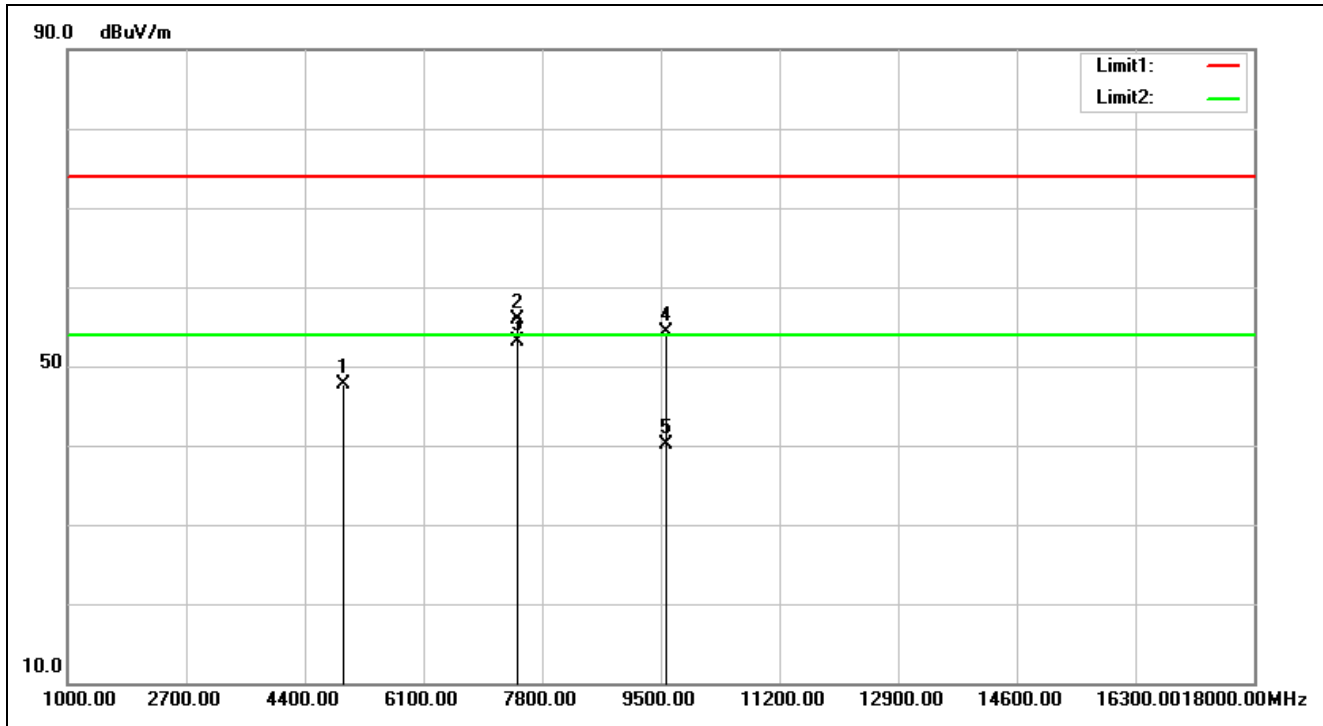
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 10:19:39
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.48	49.48	47.00	74.00	-27.00	peak			
2	6899.000	5.09	46.67	51.76	74.00	-22.24	peak	100	3	
3	7323.000	5.93	48.63	54.56	74.00	-19.44	peak	100	227	
4	7323.000	5.93	43.30	49.23	54.00	-4.77	AVG	100	227	



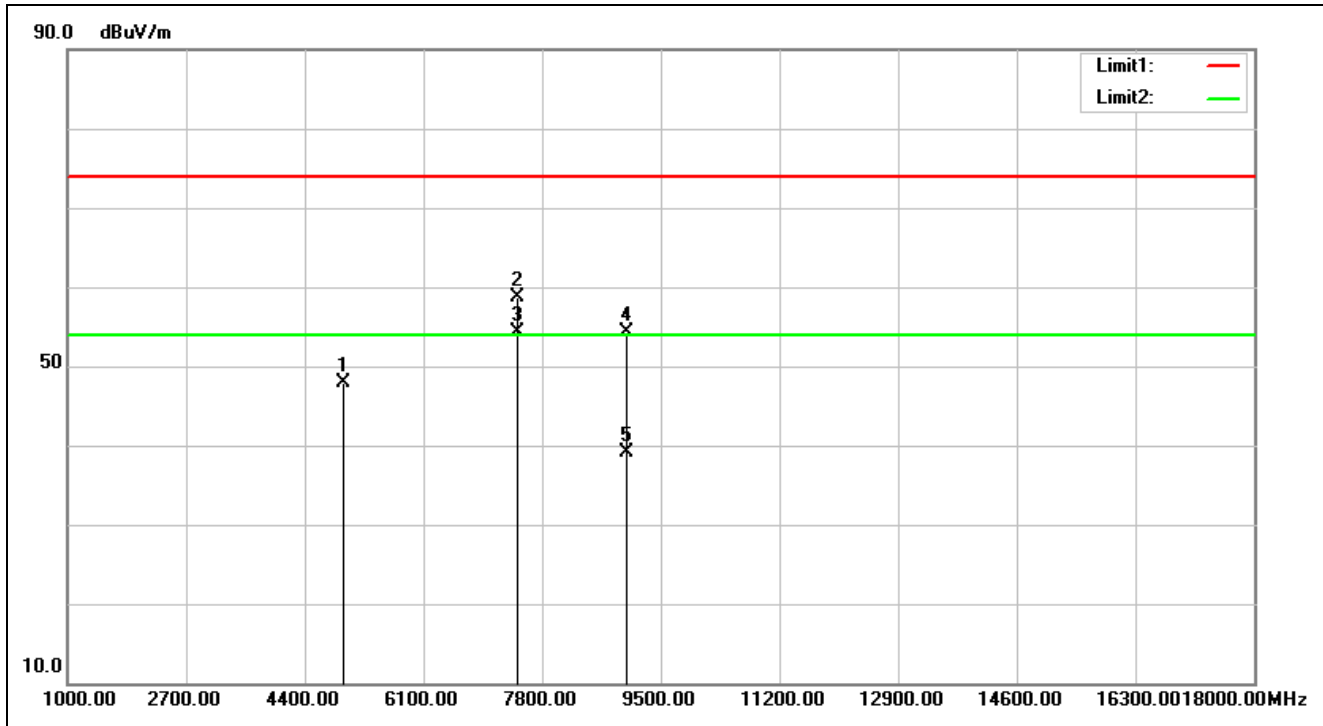
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 10:20:41
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.48	49.62	47.14	74.00	-26.86	peak			
2	5675.000	1.65	48.82	50.47	74.00	-23.53	peak	100	0	
3	7323.000	5.93	49.46	55.39	74.00	-18.61	peak	100	283	
4	7323.000	5.93	45.75	51.68	54.00	-2.32	AVG	100	283	



Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 10:25:46
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2480-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	49.95	47.64	74.00	-26.36	peak		0	
2	7440.000	6.28	49.67	55.95	74.00	-18.05	peak	100	230	
3	7440.000	6.28	46.84	31.95	54.00	-22.05	AVG	100	230	Duty factor
4	9568.000	6.42	47.92	54.34	74.00	-19.66	peak	100	301	
5	9568.000	6.42	33.64	40.06	54.00	-13.94	AVG	100	301	



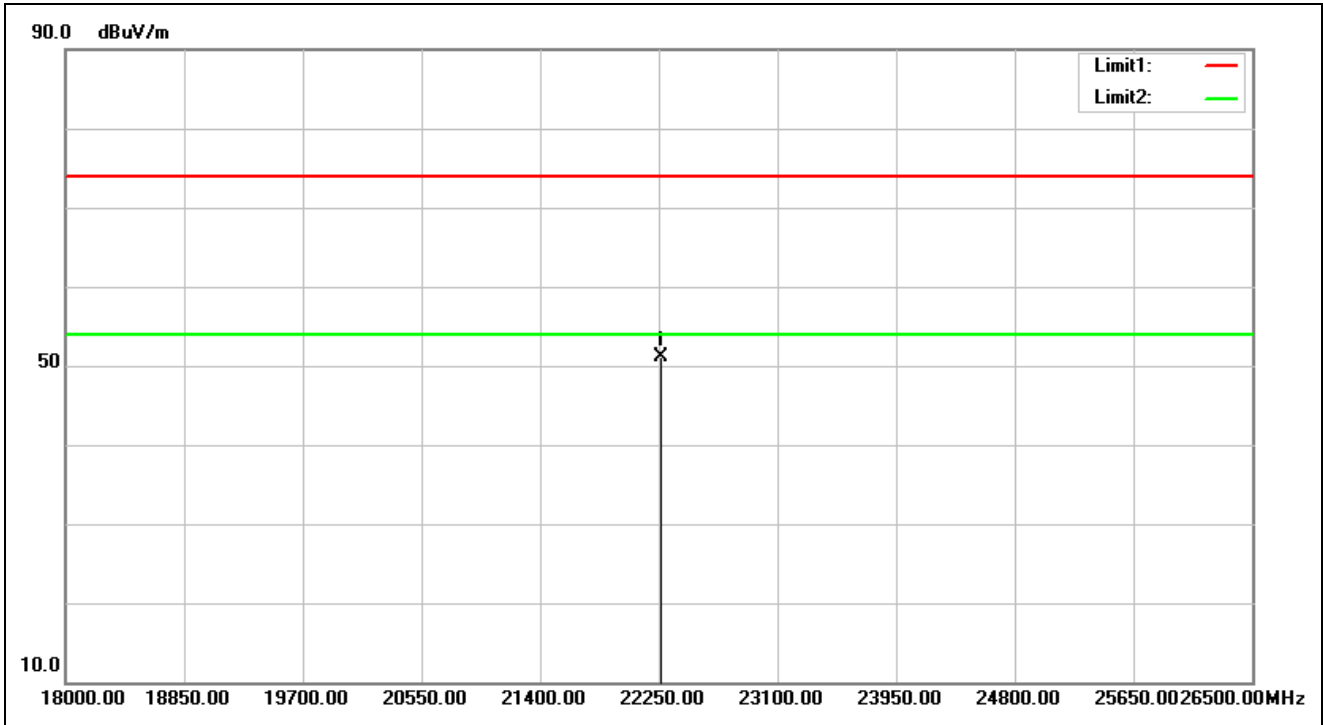
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Test item:	Radiation Emission	Test Time:	2016/12/20 10:26:49
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2480-TX		
Remark:			

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	50.12	47.81	74.00	-26.19	peak			
2	7440.000	6.28	52.34	58.62	74.00	-15.38	peak	100	286	
3	7440.000	6.28	47.98	34.62	54.00	-19.38	AVG	100	286	Duty factor
4	9007.000	6.90	47.46	54.36	74.00	-19.64	peak	100	128	
5	9007.000	6.90	32.14	39.04	54.00	-14.96	AVG	100	128	

Spurious Emissions, TX Mode, 18-26G

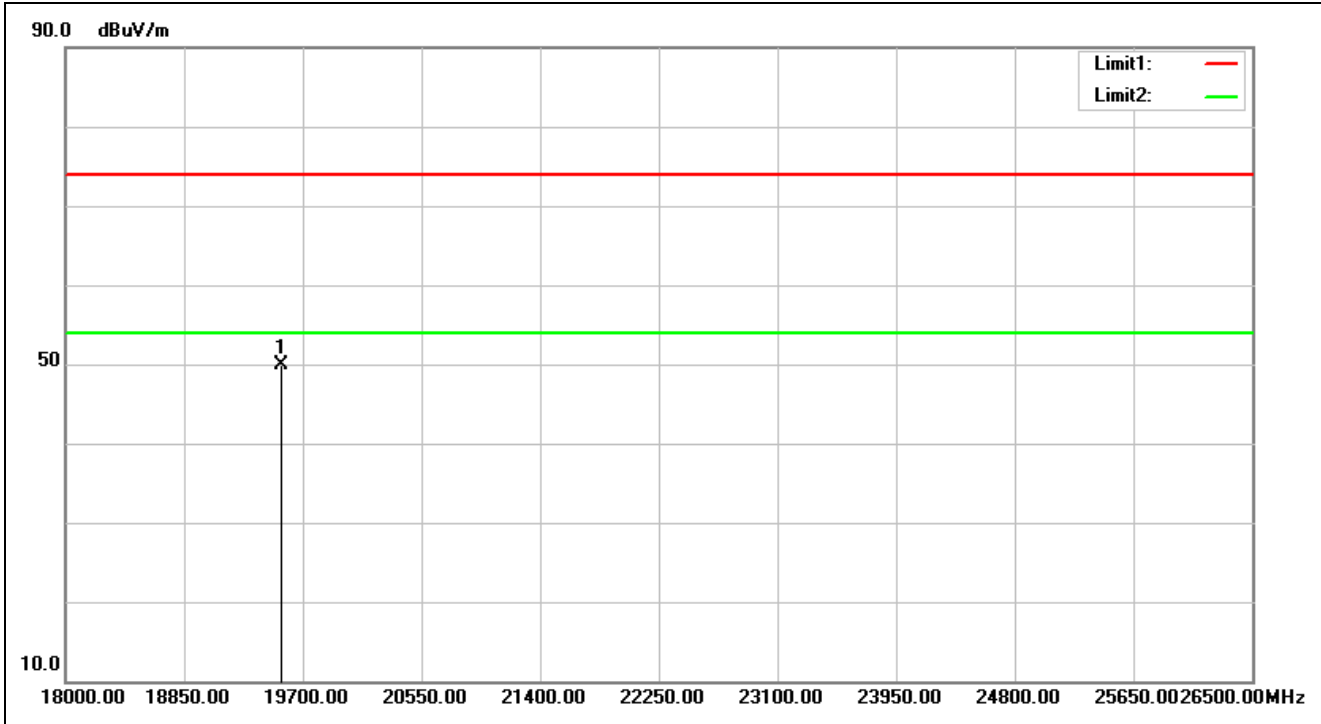


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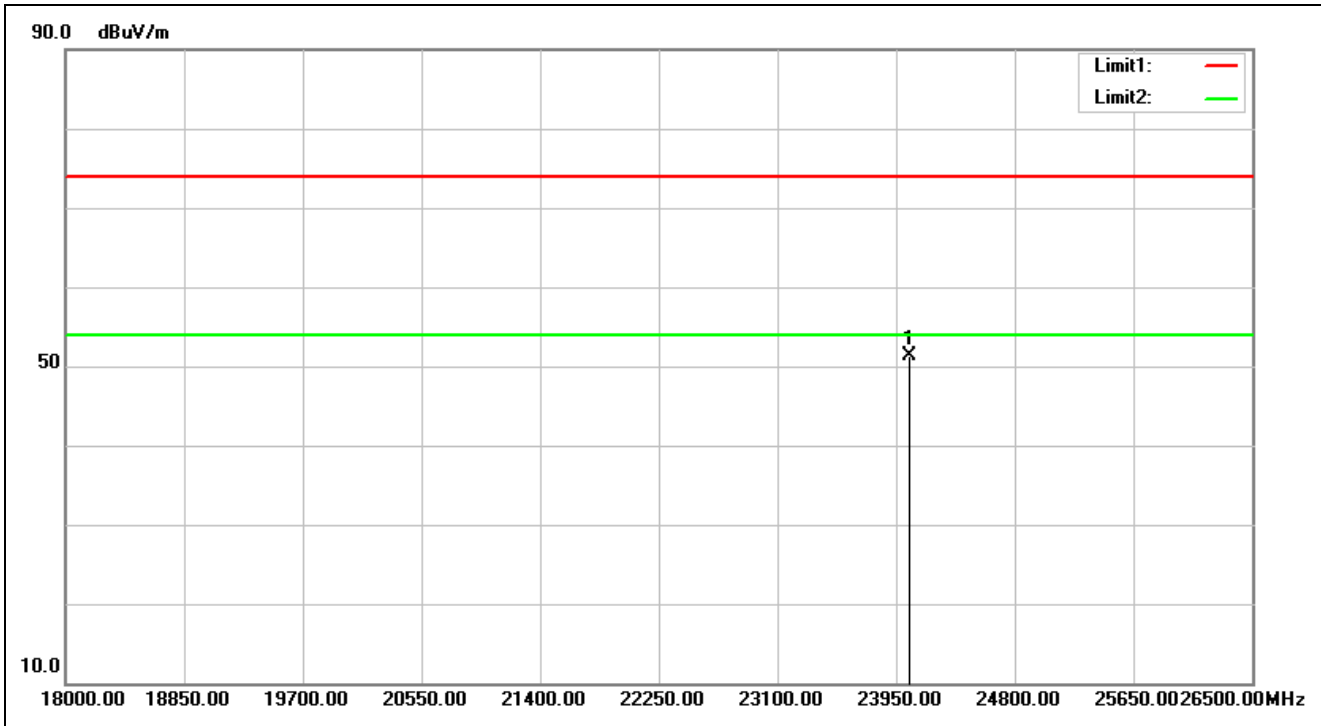
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 11:47:18
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22267.000	32.98	18.06	51.04	74.00	-22.96	peak		0	



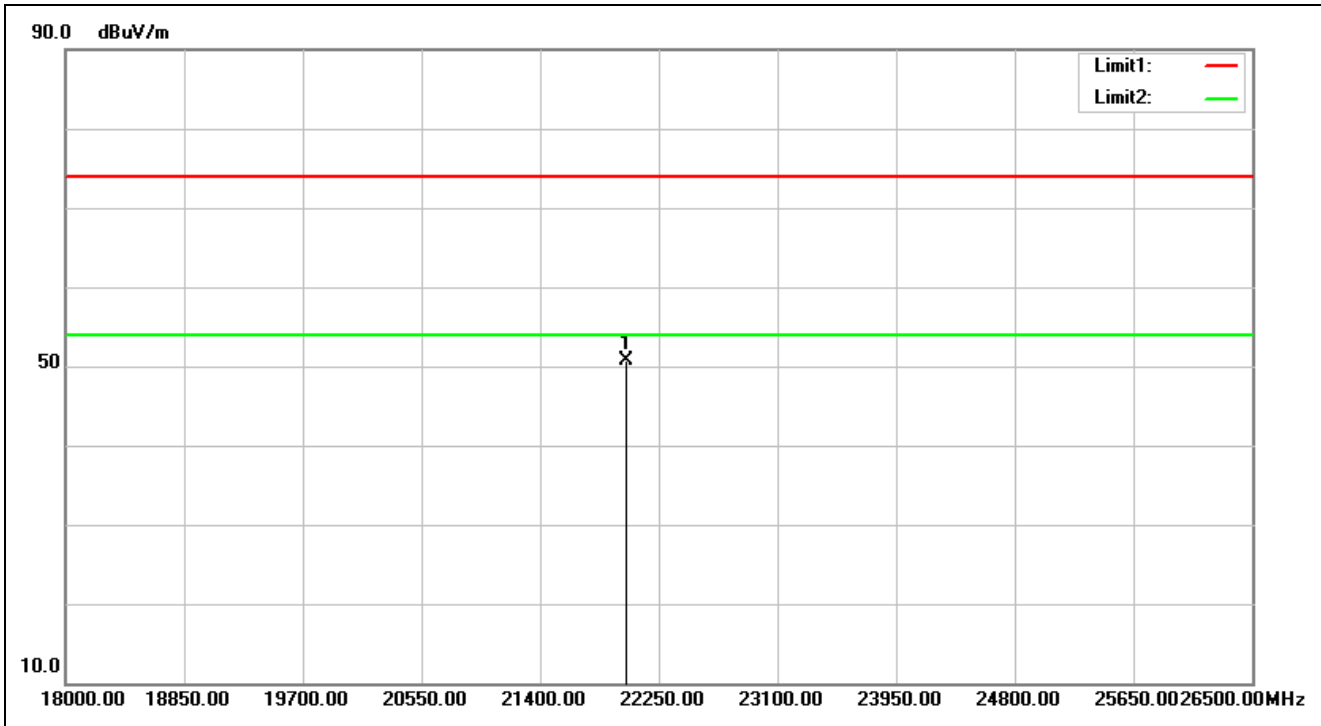
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 11:47:26
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19547.000	31.25	18.59	49.84	74.00	-24.16	peak			



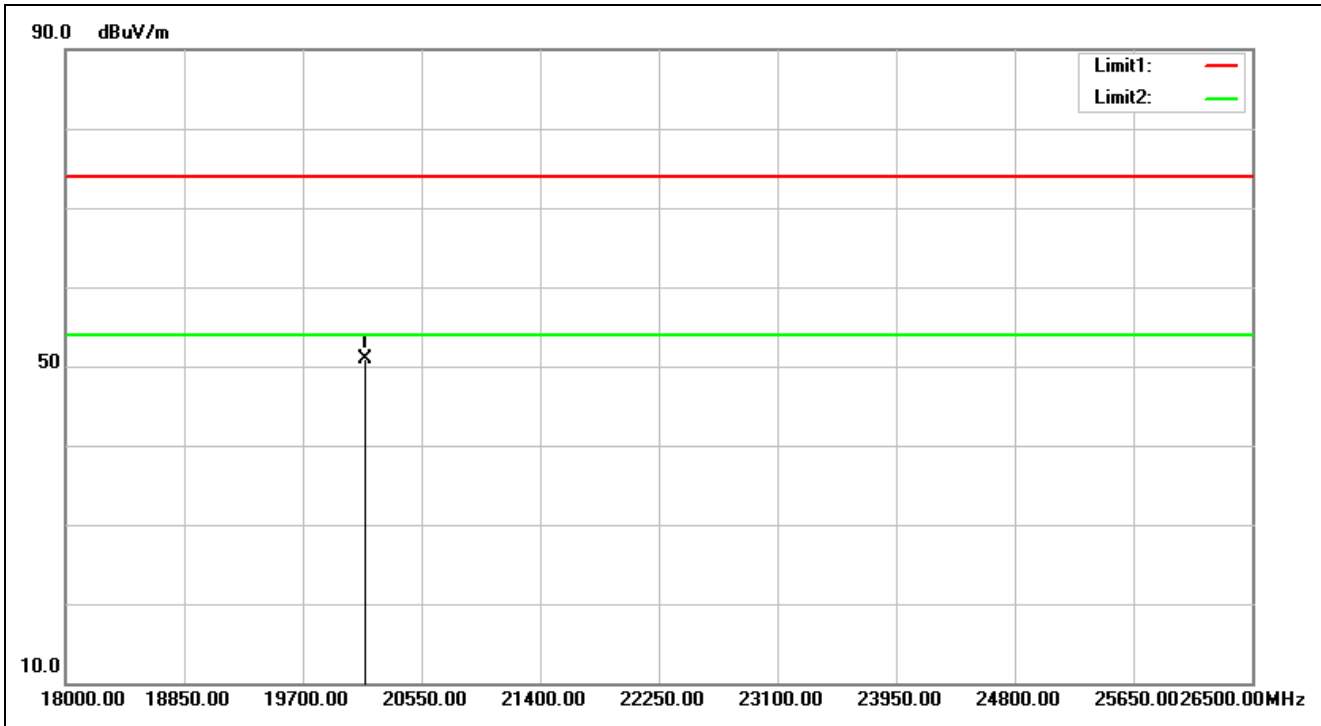
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 11:47:39
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24043.500	31.97	19.25	51.22	74.00	-22.78	peak			



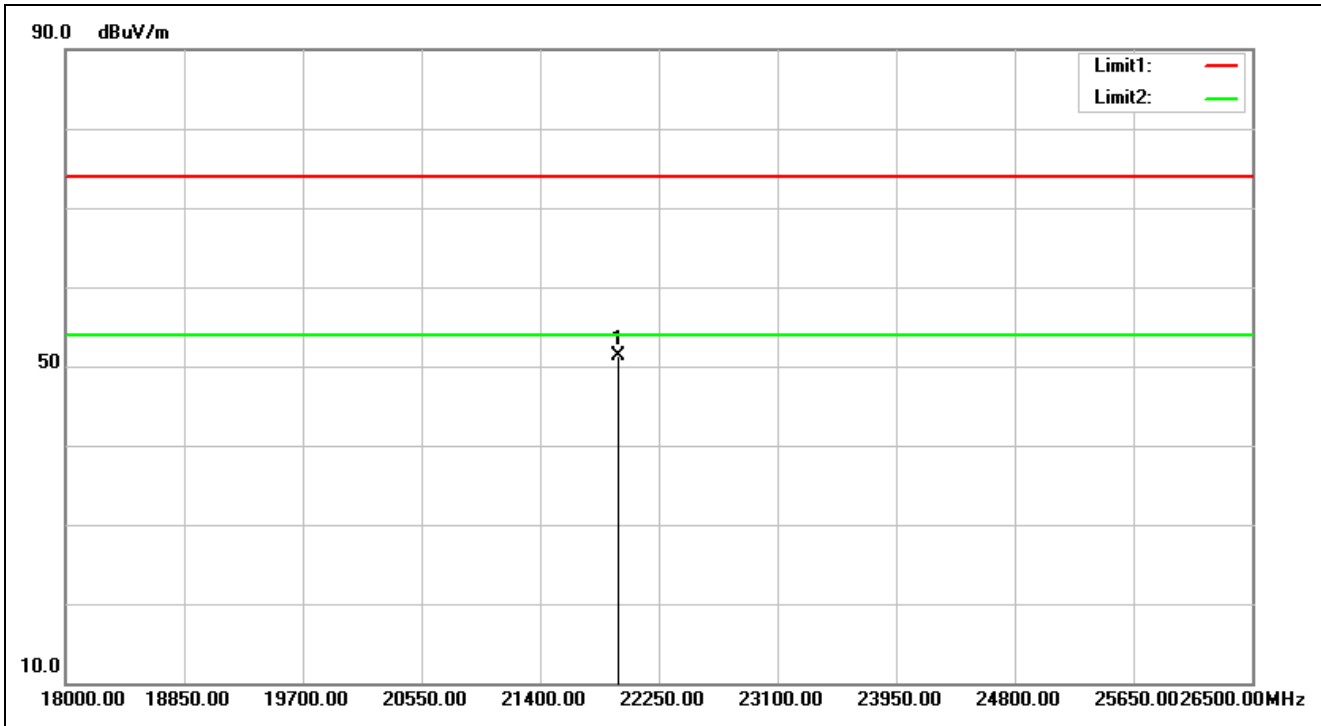
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 11:47:49
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22020.500	33.11	17.53	50.64	74.00	-23.36	peak			



Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 11:48:02
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20142.000	31.55	19.41	50.96	74.00	-23.04	peak			



Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 11:48:12
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21961.000	33.06	18.21	51.27	74.00	-22.73	peak			

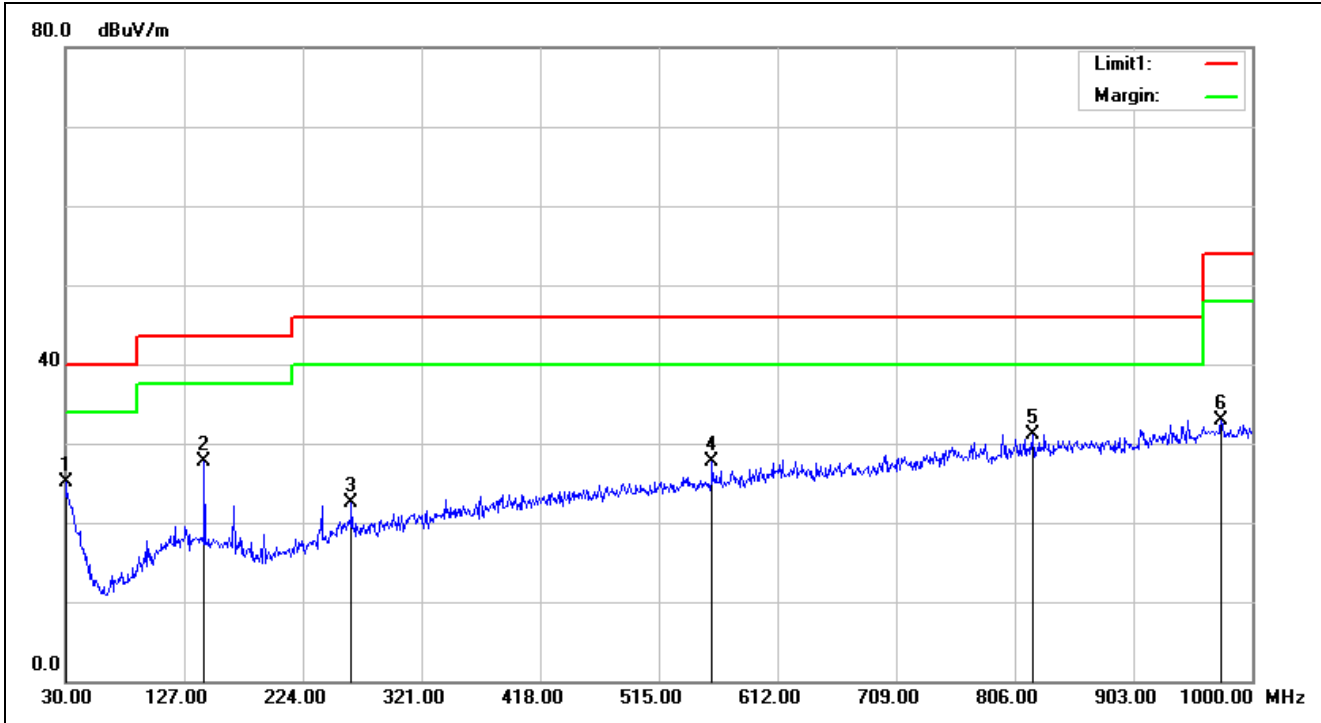
Spurious Emissions, TX Mode, 30M-1G



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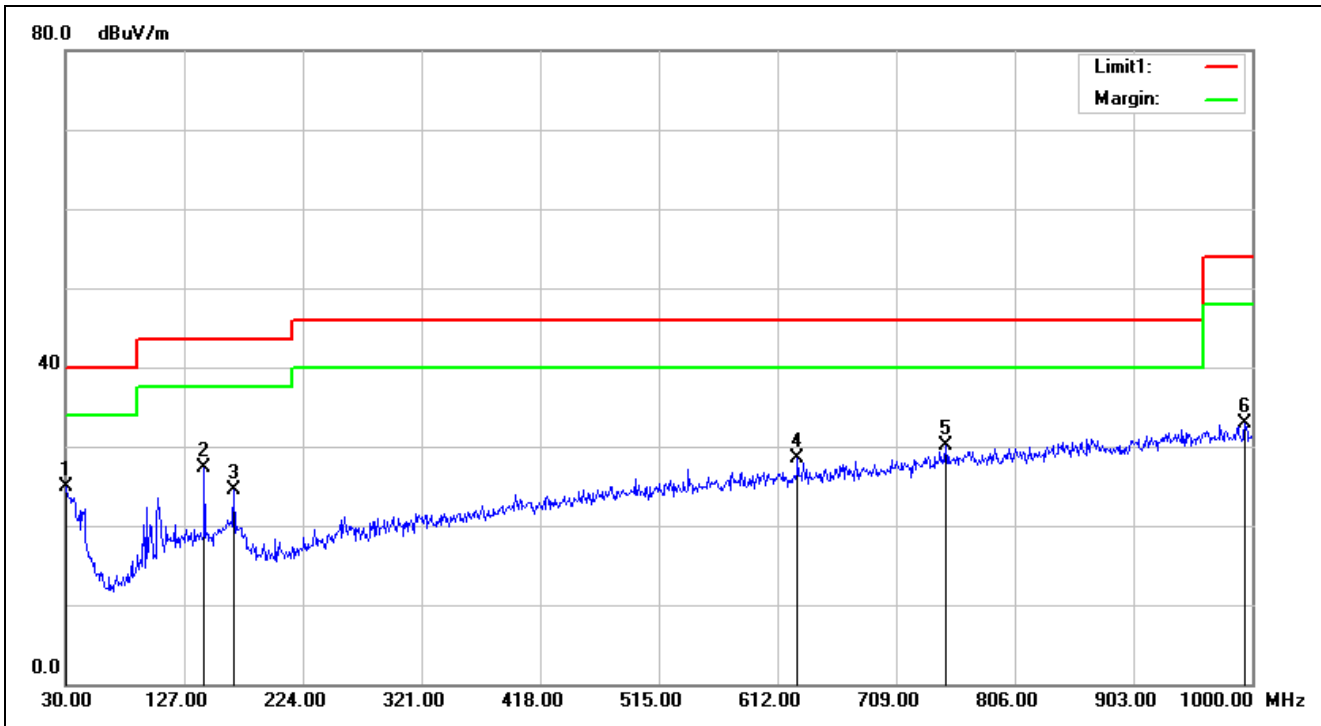
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Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 12:48:06
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-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	25.18	25.11	40.00	-14.89	QP	100	25	
2	143.4900	-7.14	34.75	27.61	43.50	-15.89	QP	100	294	
3	263.7699	-5.05	27.65	22.60	46.00	-23.40	QP	100	263	
4	558.6499	-0.65	28.35	27.70	46.00	-18.30	QP	100	97	
5	820.5499	3.18	27.88	31.06	46.00	-14.94	QP	100	294	
6	974.7799	5.60	27.21	32.81	54.00	-21.19	QP	100	70	

Spurious Emissions, TX Mode, 30M-1G



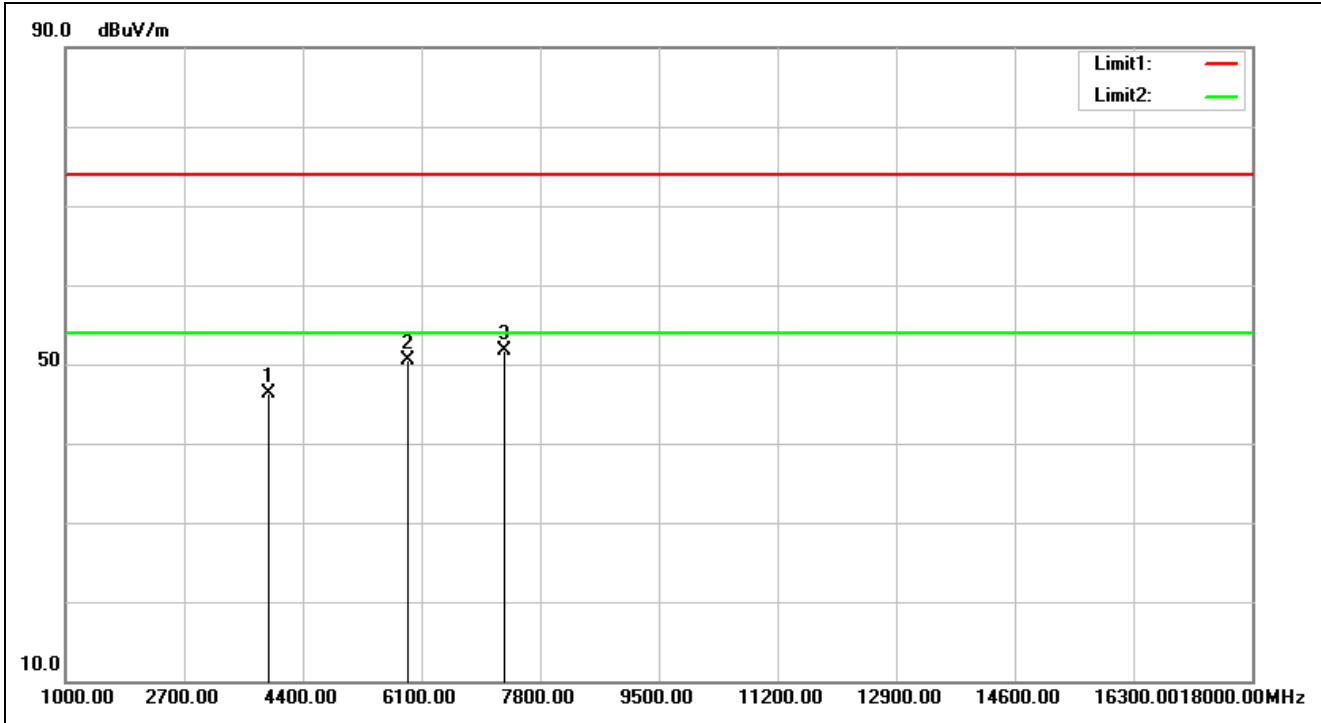
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 12:49:10
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-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	25.05	24.98	40.00	-15.02	QP	100	127	
2	143.4900	-7.14	34.39	27.25	43.50	-16.25	QP	100	116	
3	167.7400	-8.76	33.20	24.44	43.50	-19.06	QP	100	141	
4	628.4900	0.30	28.13	28.43	46.00	-17.57	QP	100	96	
5	749.7400	2.33	27.69	30.02	46.00	-15.98	QP	100	121	
6	994.1800	5.78	27.19	32.97	54.00	-21.03	QP	100	129	

Spurious Emissions, RX Mode, 1-18G

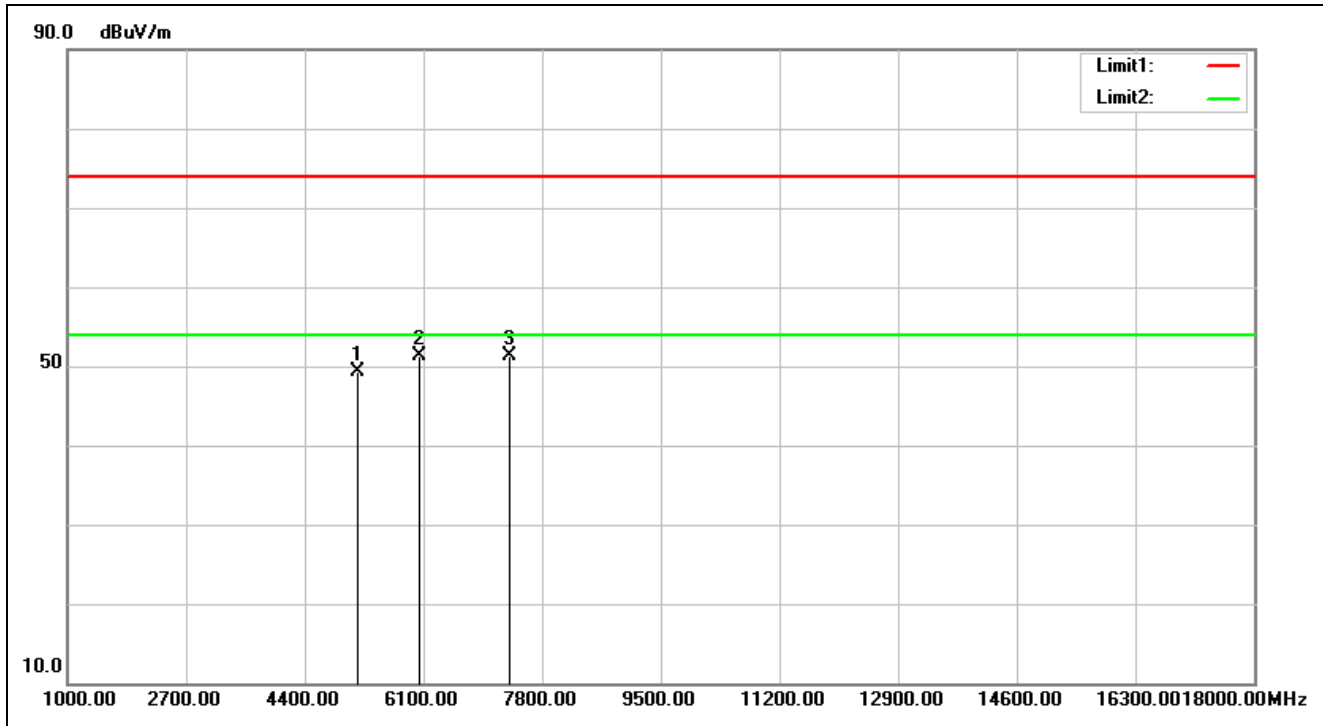


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Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 11:13:48
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3907.000	-5.45	51.75	46.30	74.00	-27.70	peak	100	89	
2	5913.000	3.30	47.18	50.48	74.00	-23.52	peak	100	45	
3	7290.000	5.83	45.90	51.73	74.00	-22.27	peak	100	186	



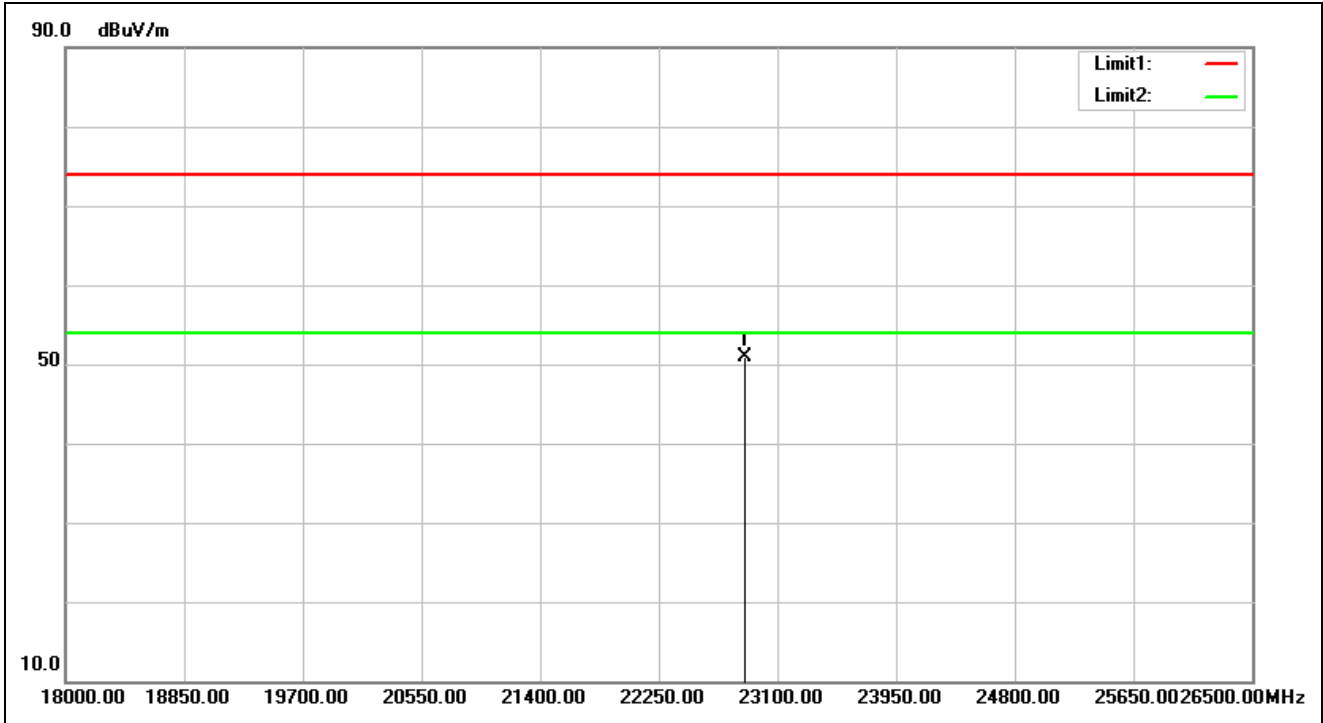
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 11:14:51
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	5148.000	-1.42	50.64	49.22	74.00	-24.78	peak	100	188	
2	6032.000	4.01	47.28	51.29	74.00	-22.71	peak	100	149	
3	7341.000	5.98	45.37	51.35	74.00	-22.65	peak	100	55	

Spurious Emissions, RX Mode, 18-26G

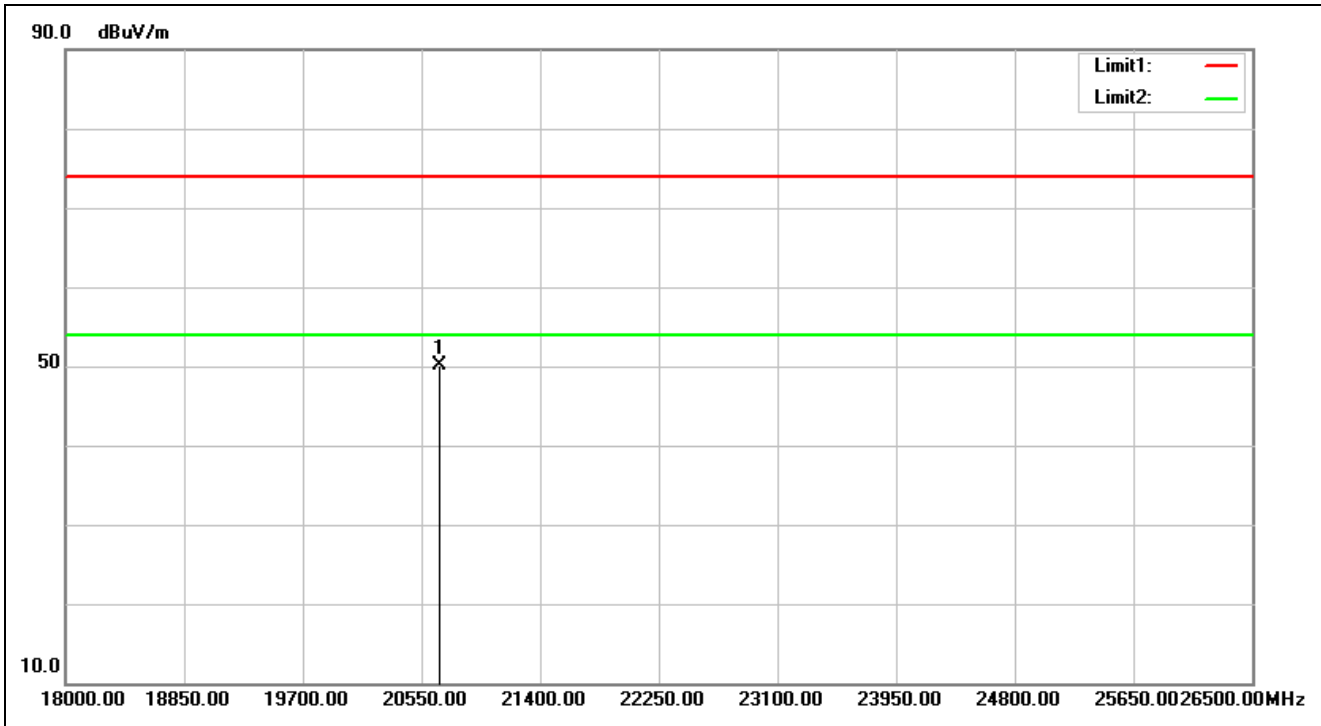


TUV Taiwan
 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
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Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 11:48:27
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22870.500	32.60	18.32	50.92	74.00	-23.08	peak			



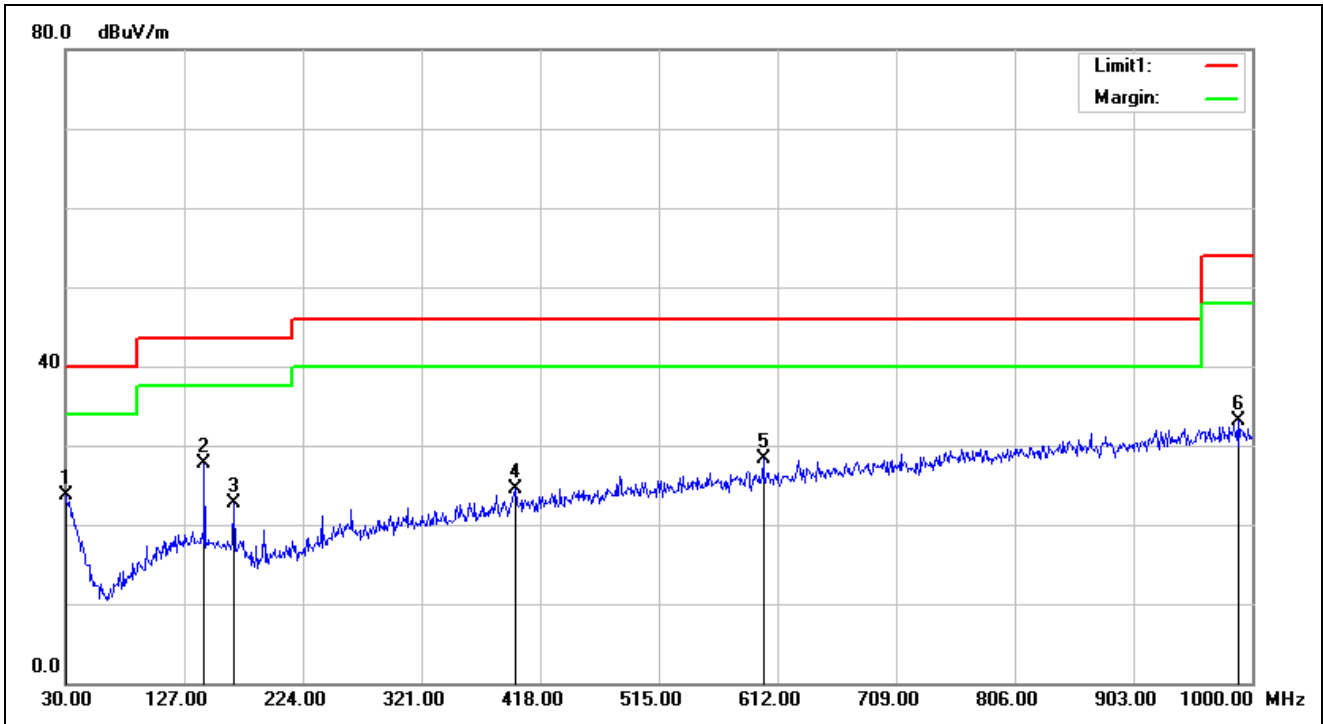
Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 11:48:35
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20677.500	31.80	18.36	50.16	74.00	-23.84	peak			

Spurious Emissions, RX Mode, 30M-1G

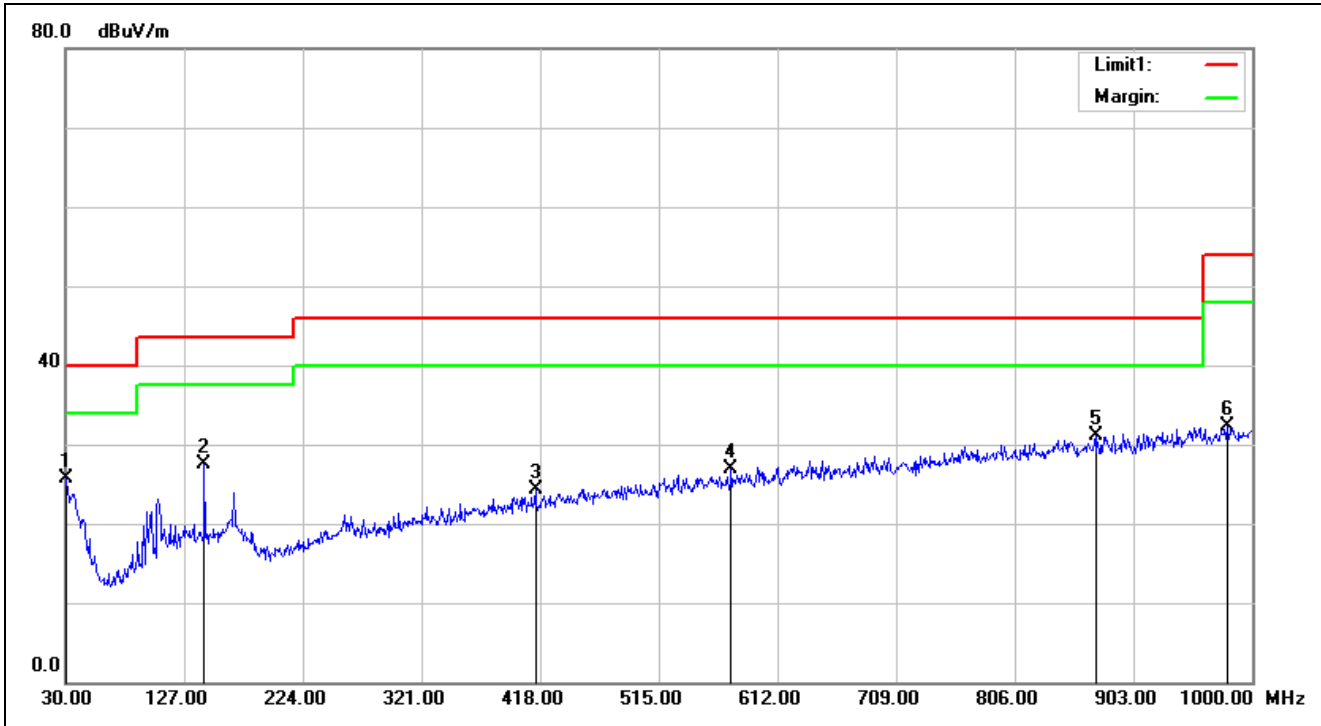


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Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/12/20 12:51:04
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-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	-0.07	23.77	23.70	40.00	-16.30	QP	100	30	
2	143.4900	-7.14	34.89	27.75	43.50	-15.75	QP	100	145	
3	167.7400	-8.76	31.48	22.72	43.50	-20.78	QP	100	172	
4	397.6298	-2.69	27.12	24.43	46.00	-21.57	QP	100	242	
5	600.3600	0.01	28.24	28.25	46.00	-17.75	QP	100	221	
6	988.3600	5.73	27.45	33.18	54.00	-20.82	QP	100	178	



Service No.:	114059084(KT-1255)-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/12/20 12:52:08
Applicant:	Chicony	Test Rating:	DC 5V
Product:	ThinkPad Compact BT Keyboard	Temp.(°C)/Hum.(%):	21.2(°C)/59%
Model No.:	KT-1255	Test Engineer:	George Yang
Test Mode:	DH5-2441-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	-0.07	25.74	25.67	40.00	-14.33	QP	100	97	
2	143.4900	-7.14	34.66	27.52	43.50	-15.98	QP	100	116	
3	414.1200	-2.47	26.79	24.32	46.00	-21.68	QP	100	83	
4	574.1700	-0.39	27.35	26.96	46.00	-19.04	QP	100	324	
5	871.9600	3.89	27.12	31.01	46.00	-14.99	QP	100	2	
6	979.6300	5.65	26.64	32.29	54.00	-21.71	QP	100	304	