

Test Report No.50089457 001

Appendix D: Radiated Spurious Emission Data

(File: 50089457AppendixD)

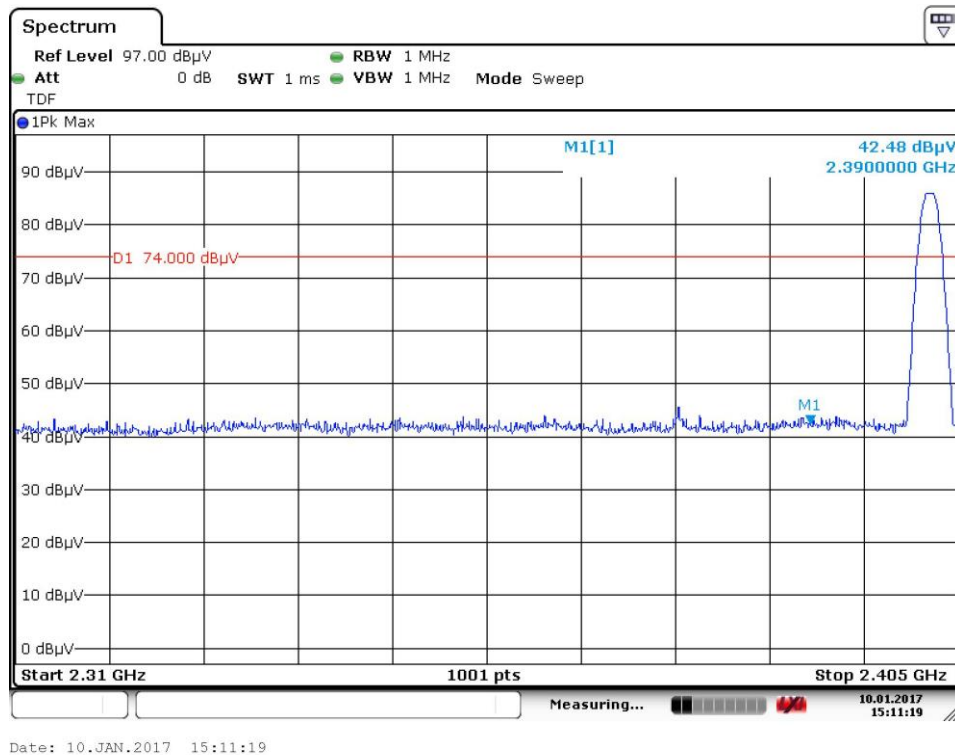
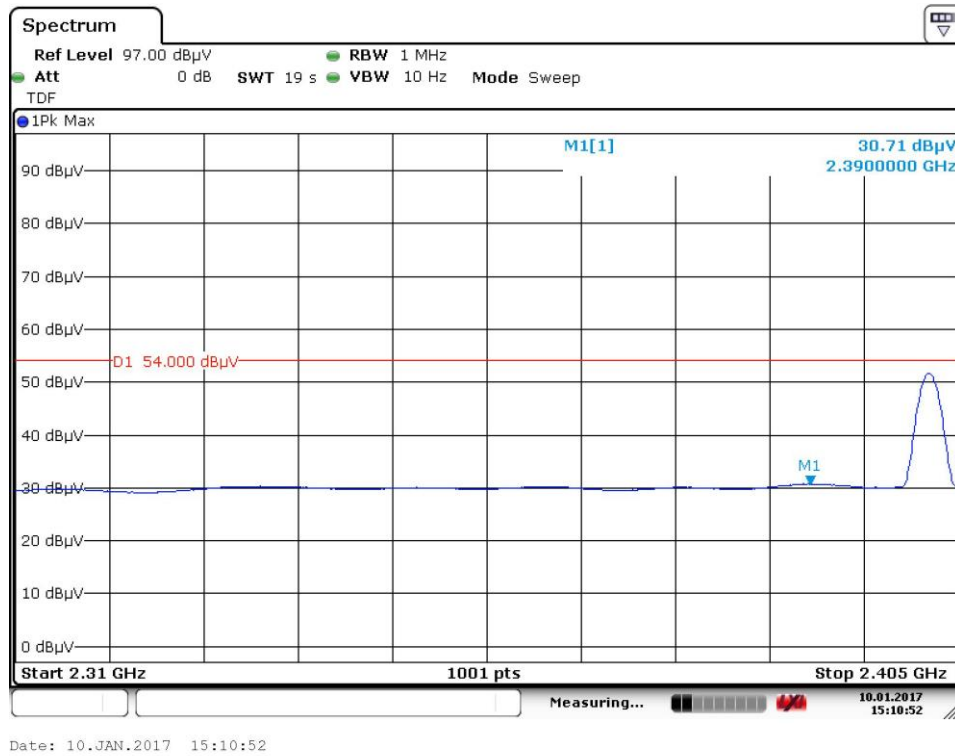
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Spurious Emissions, Band Edges, 2.35-2.5G

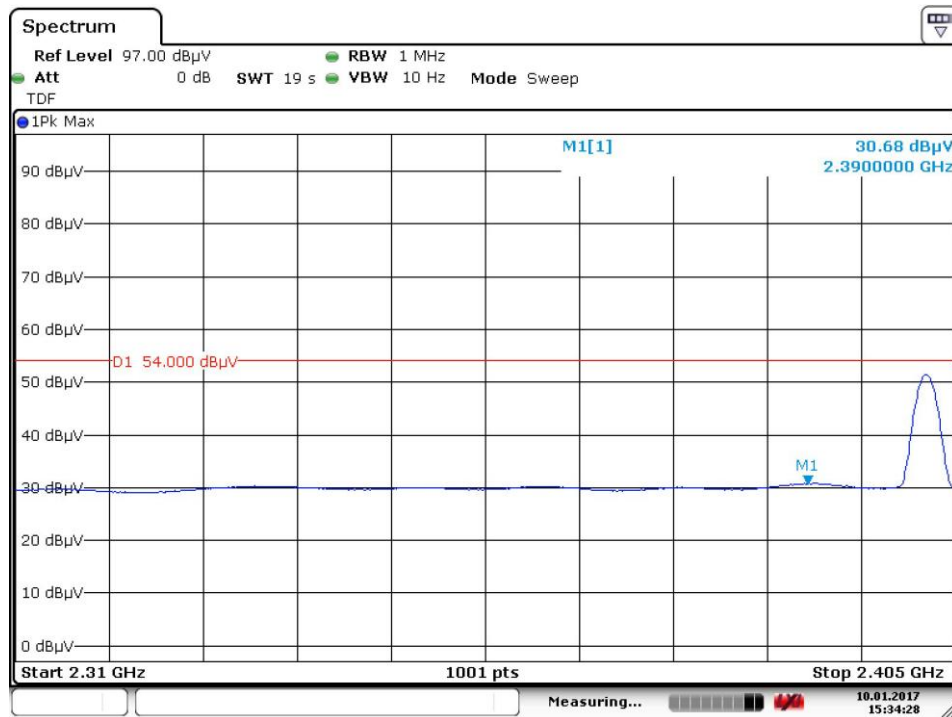
Radiated Bandedge (GFSK)

Low Channel (Hor)

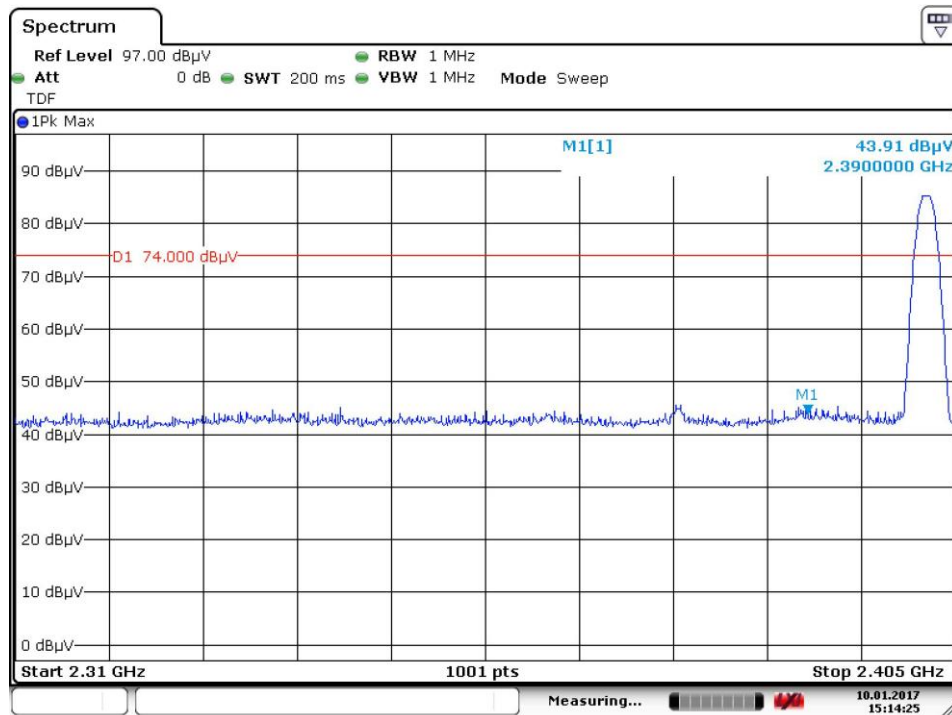


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 10.JAN.2017 15:34:28

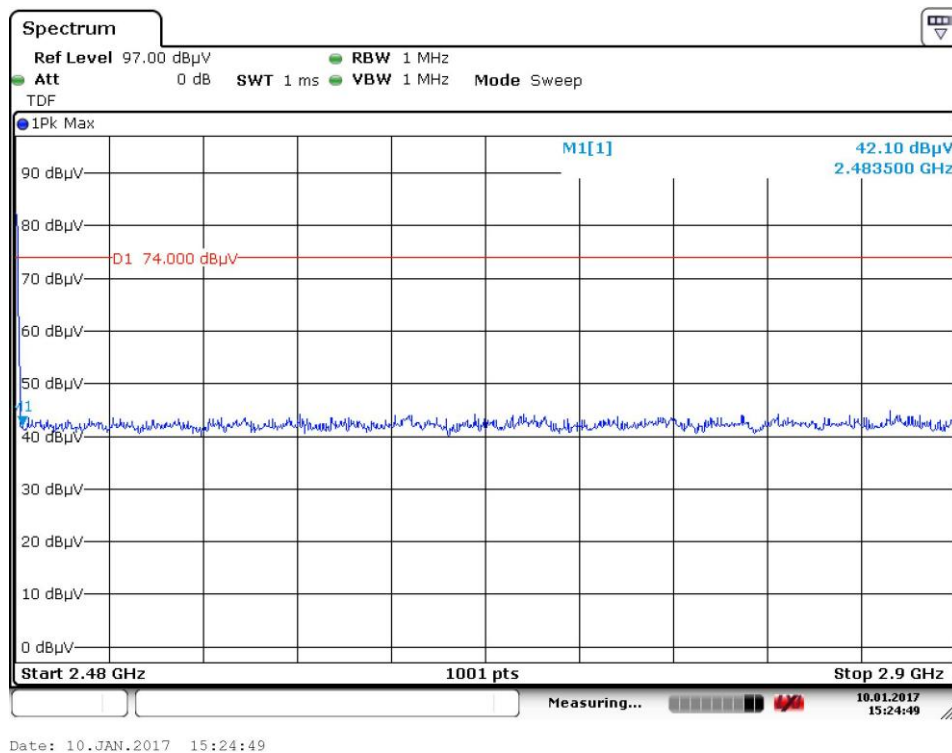
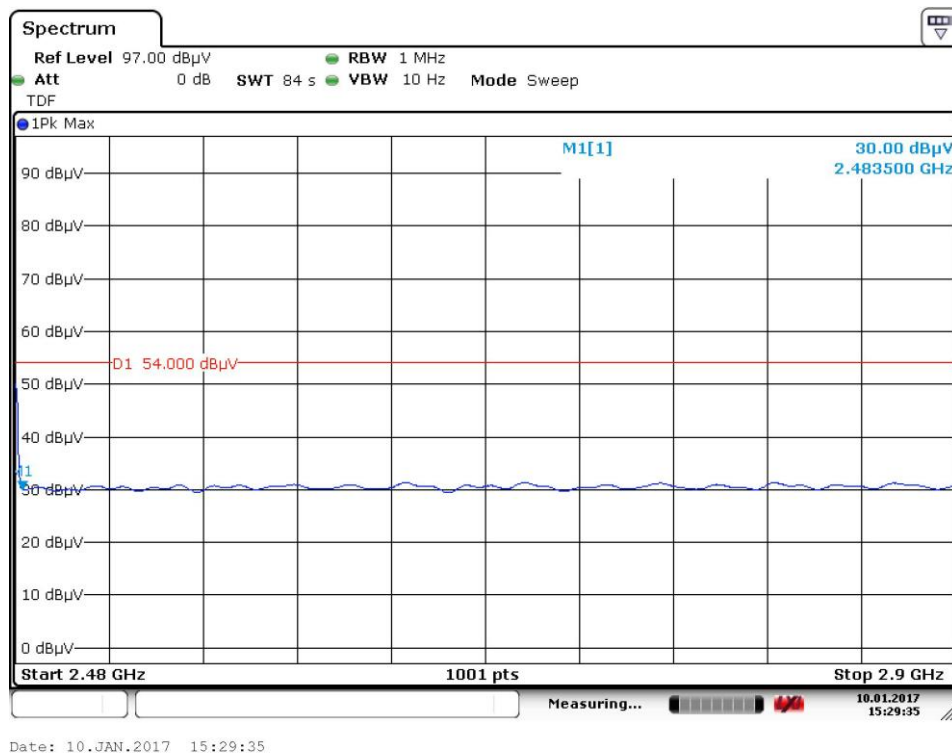


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Spurious Emissions, Band Edge, 2.35-2.5G

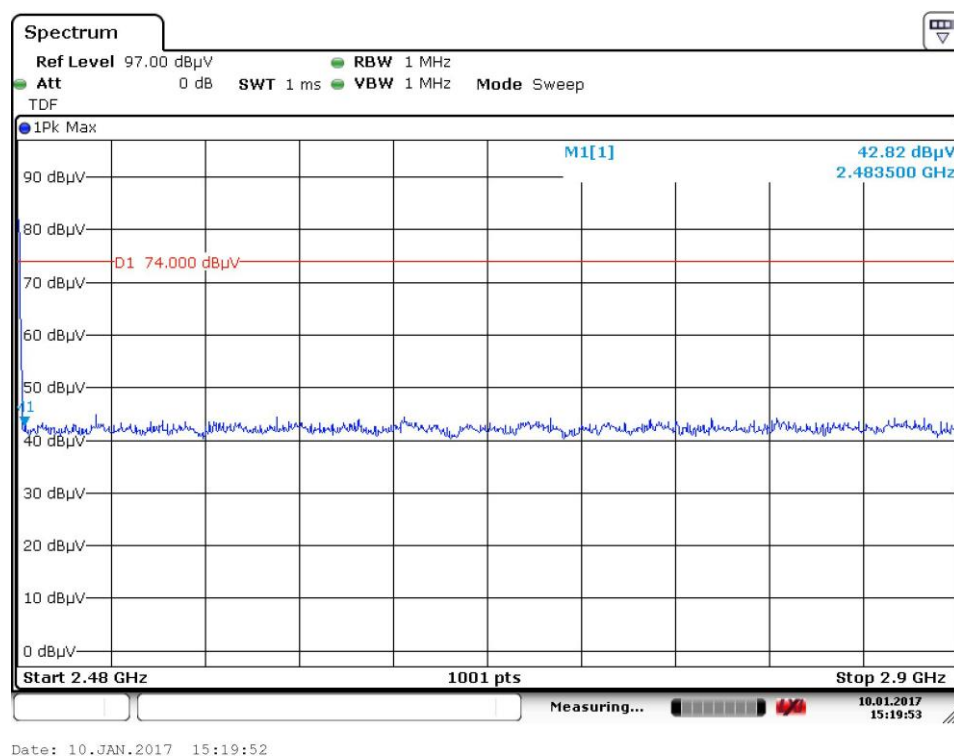
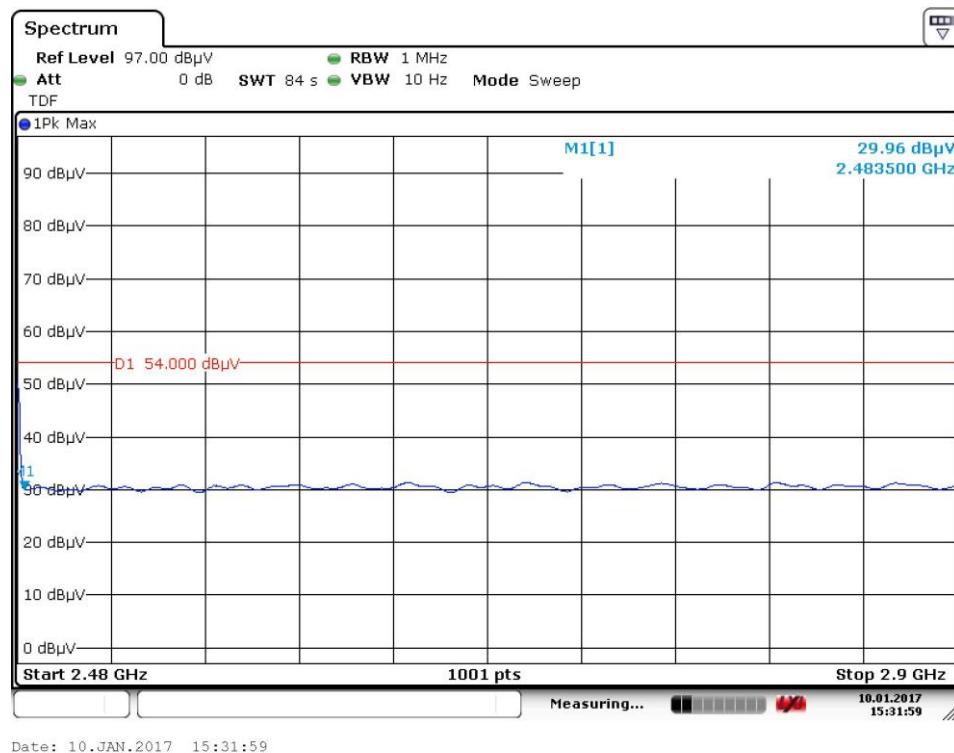
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

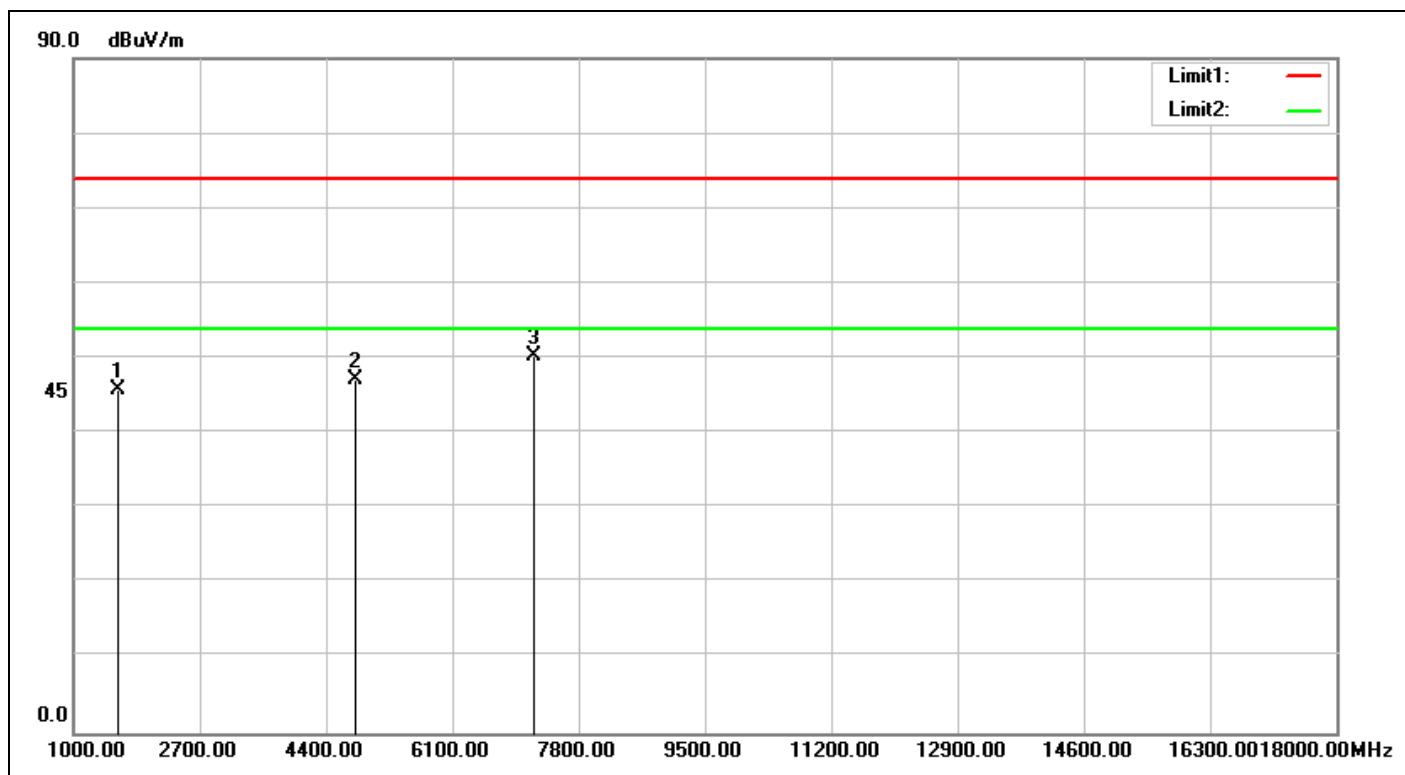
Spurious Emissions, TX Mode, 1-18G



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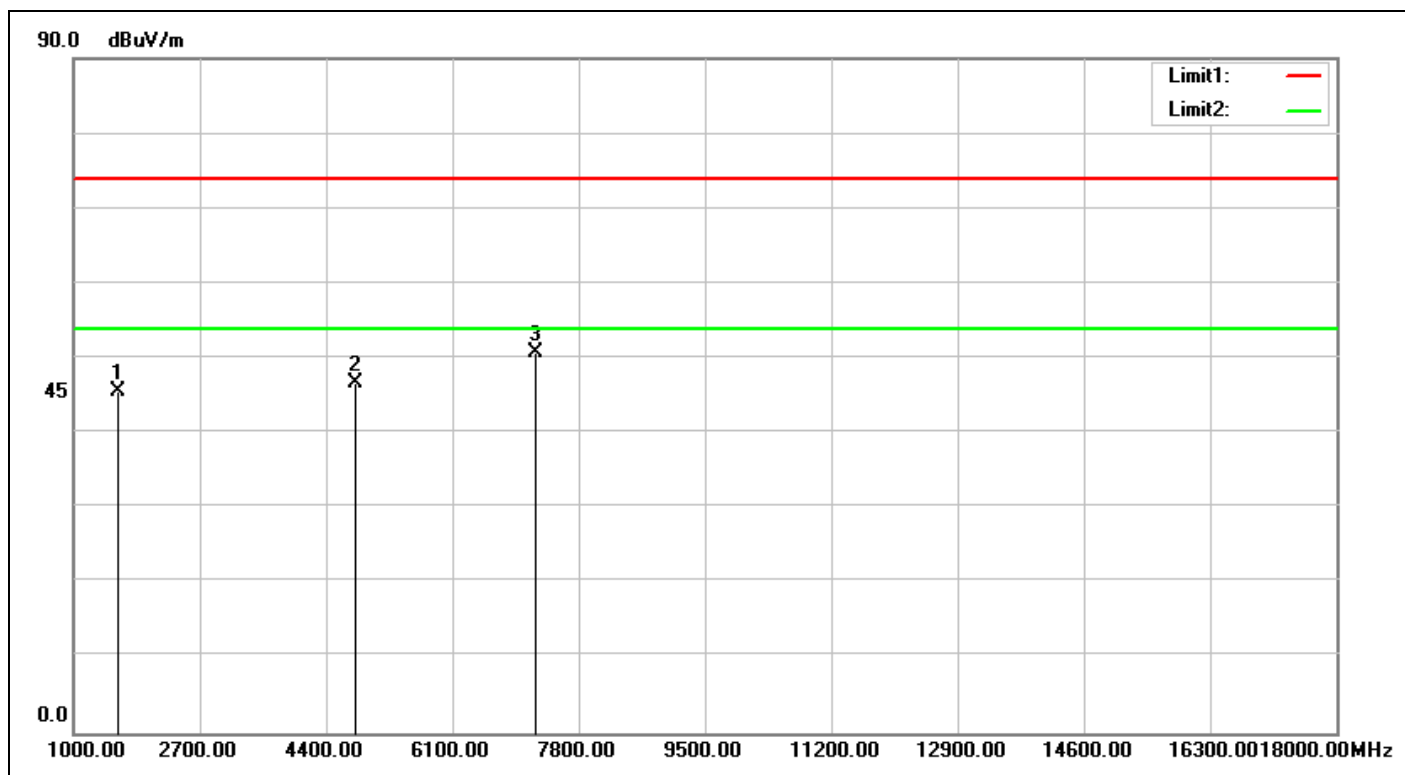
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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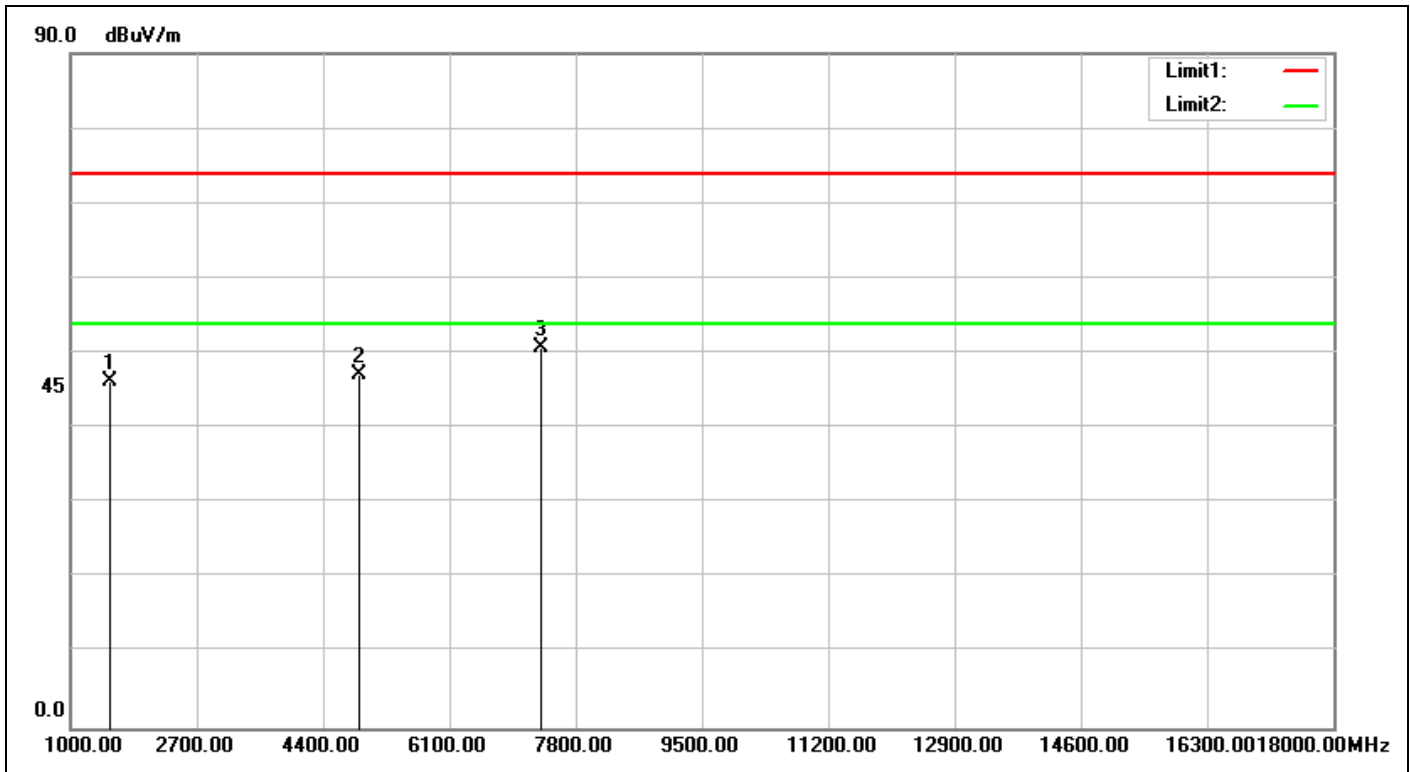
Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 14:57:00
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2402-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1595.000	-9.71	55.59	45.88	74.00	-28.12	peak	100	186	
2	4804.000	-2.66	49.86	47.20	74.00	-26.80	peak		0	
3	7206.000	5.58	44.63	50.21	74.00	-23.79	peak		0	



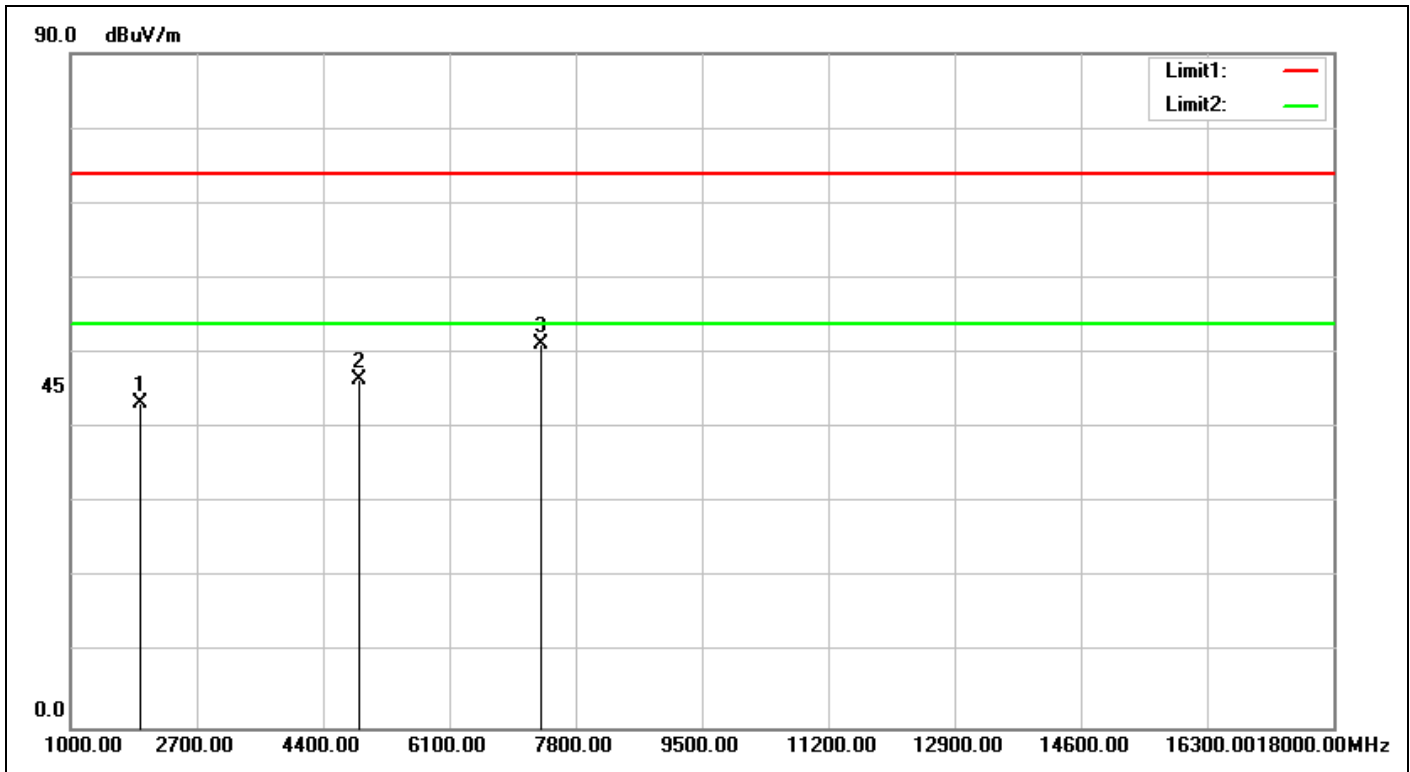
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 14:58:03
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%)	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2402-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1595.000	-9.71	55.31	45.60	74.00	-28.40	peak	100	69	
2	4804.000	-2.66	49.40	46.74	74.00	-27.26	peak			
3	7206.000	5.58	45.10	50.68	74.00	-23.32	peak			



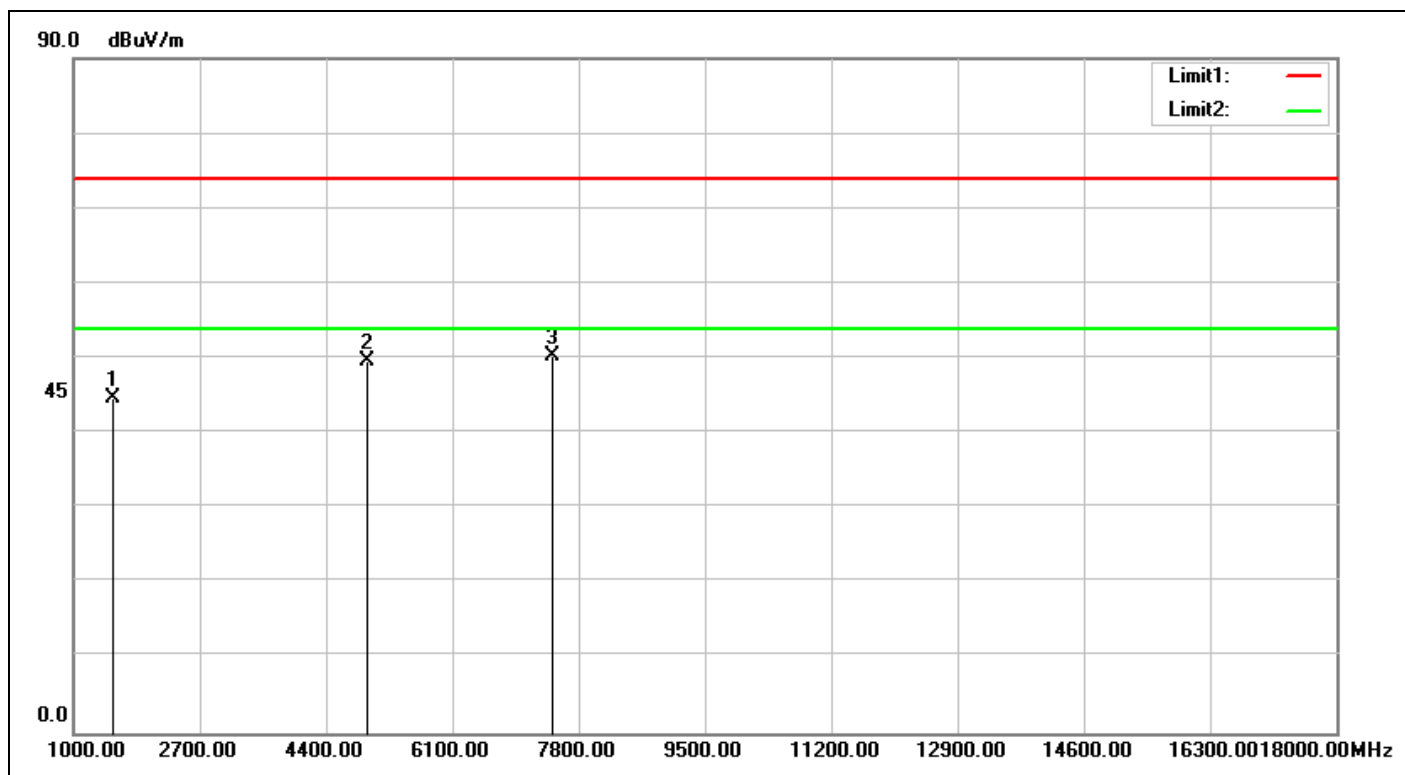
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 15:39:04
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1527.000	-10.14	56.39	46.25	74.00	-27.75	peak	100	127	
2	4880.000	-2.48	49.58	47.10	74.00	-26.90	peak			
3	7320.000	5.93	44.74	50.67	74.00	-23.33	peak			



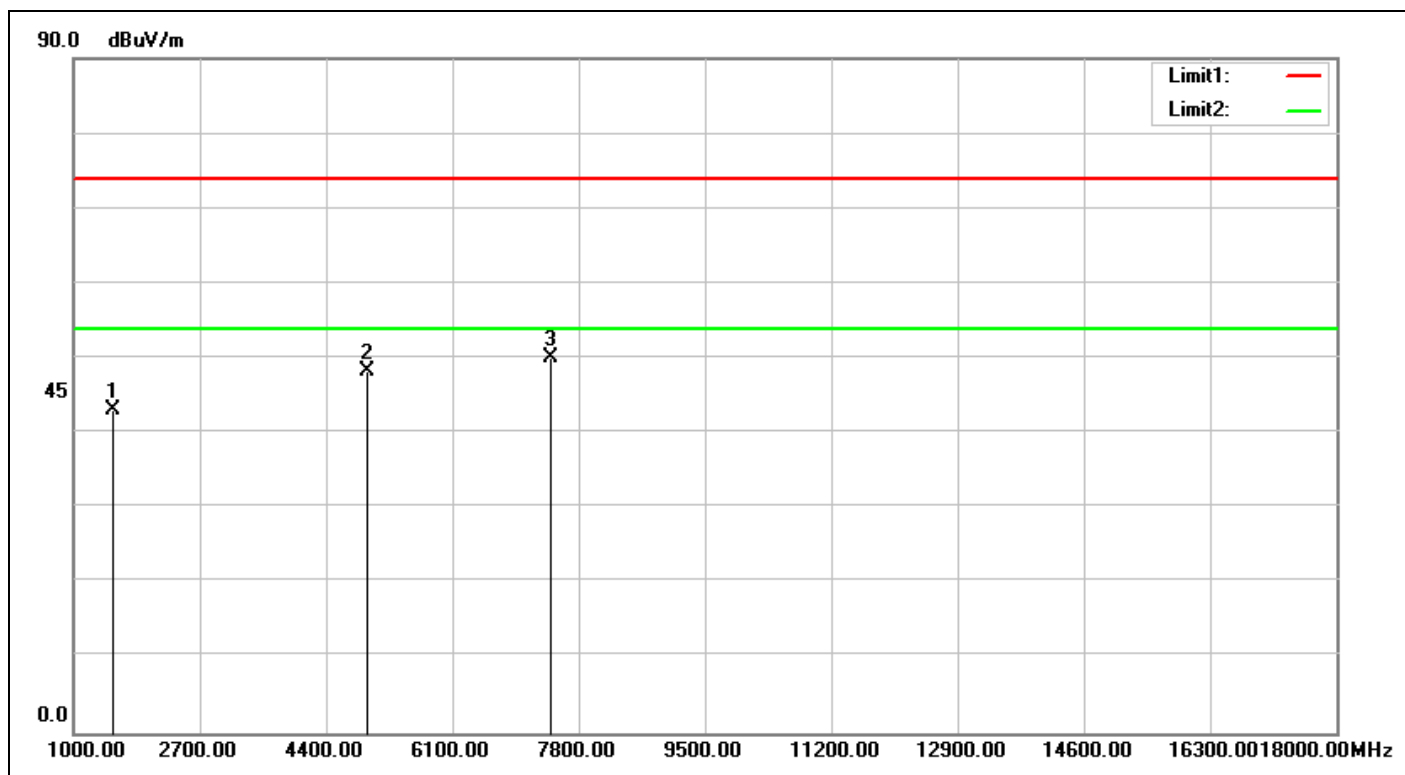
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 15:40:07
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1935.000	-7.55	50.82	43.27	74.00	-30.73	peak	100	250	
2	4880.000	-2.48	48.86	46.38	74.00	-27.62	peak			
3	7320.000	5.93	45.33	51.26	74.00	-22.74	peak			



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 15:42:57
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2480-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1527.000	-10.14	54.88	44.74	74.00	-29.26	peak	100	93	
2	4960.000	-2.31	51.83	49.52	74.00	-24.48	peak			
3	7440.000	6.28	43.95	50.23	74.00	-23.77	peak			



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 15:44:00
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%)	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2480-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1527.000	-10.14	53.25	43.11	74.00	-30.89	peak	100	64	
2	4960.000	-2.31	50.62	48.31	74.00	-25.69	peak			
3	7440.000	6.28	43.67	49.95	74.00	-24.05	peak			

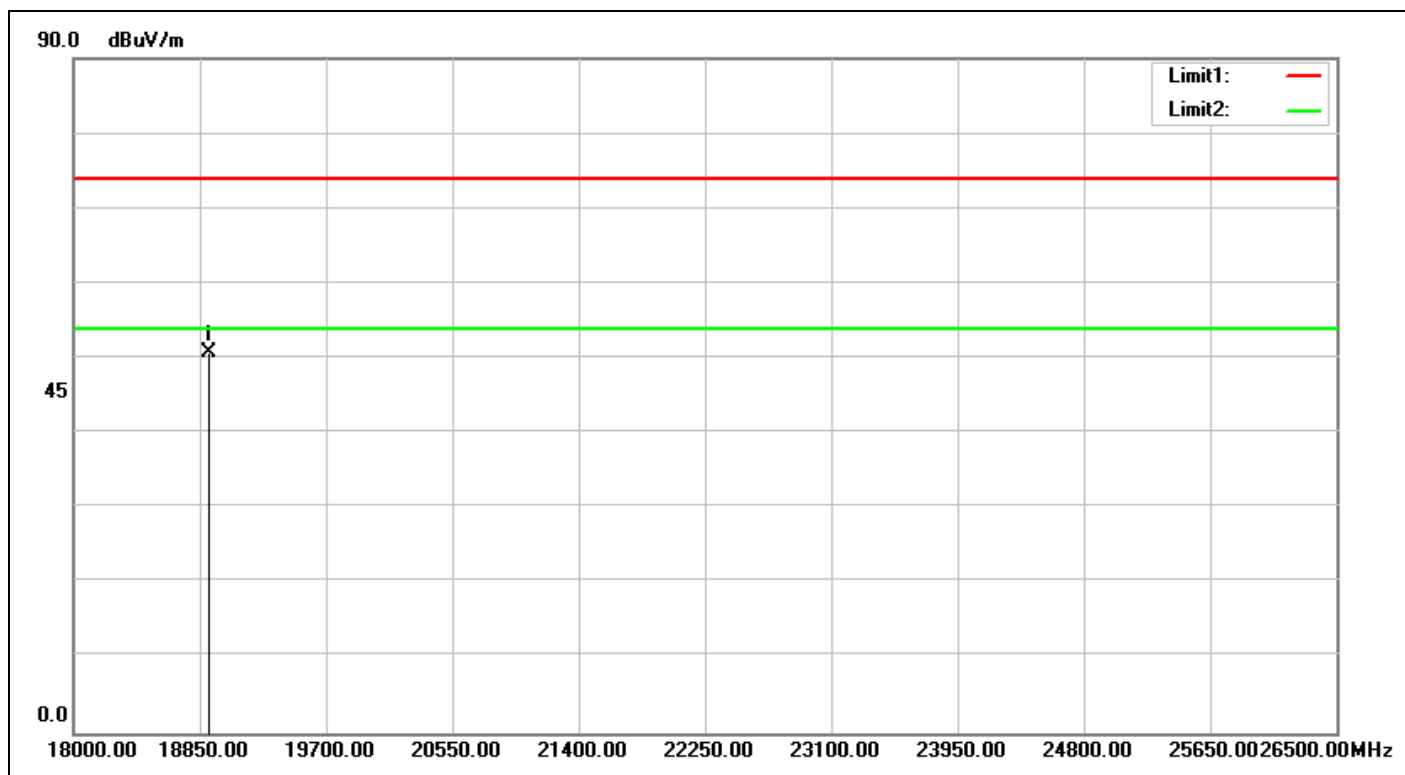
Spurious Emissions, TX Mode, 18-26G



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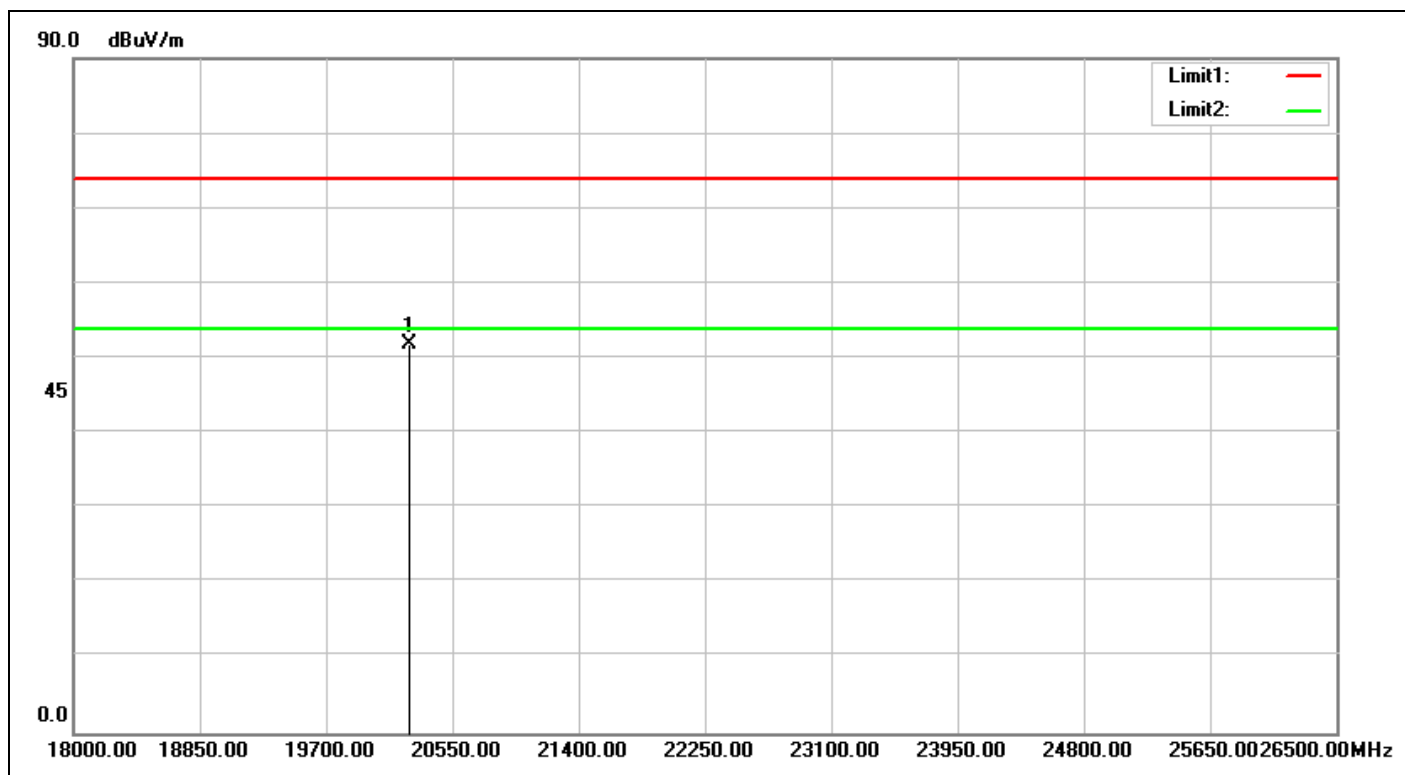
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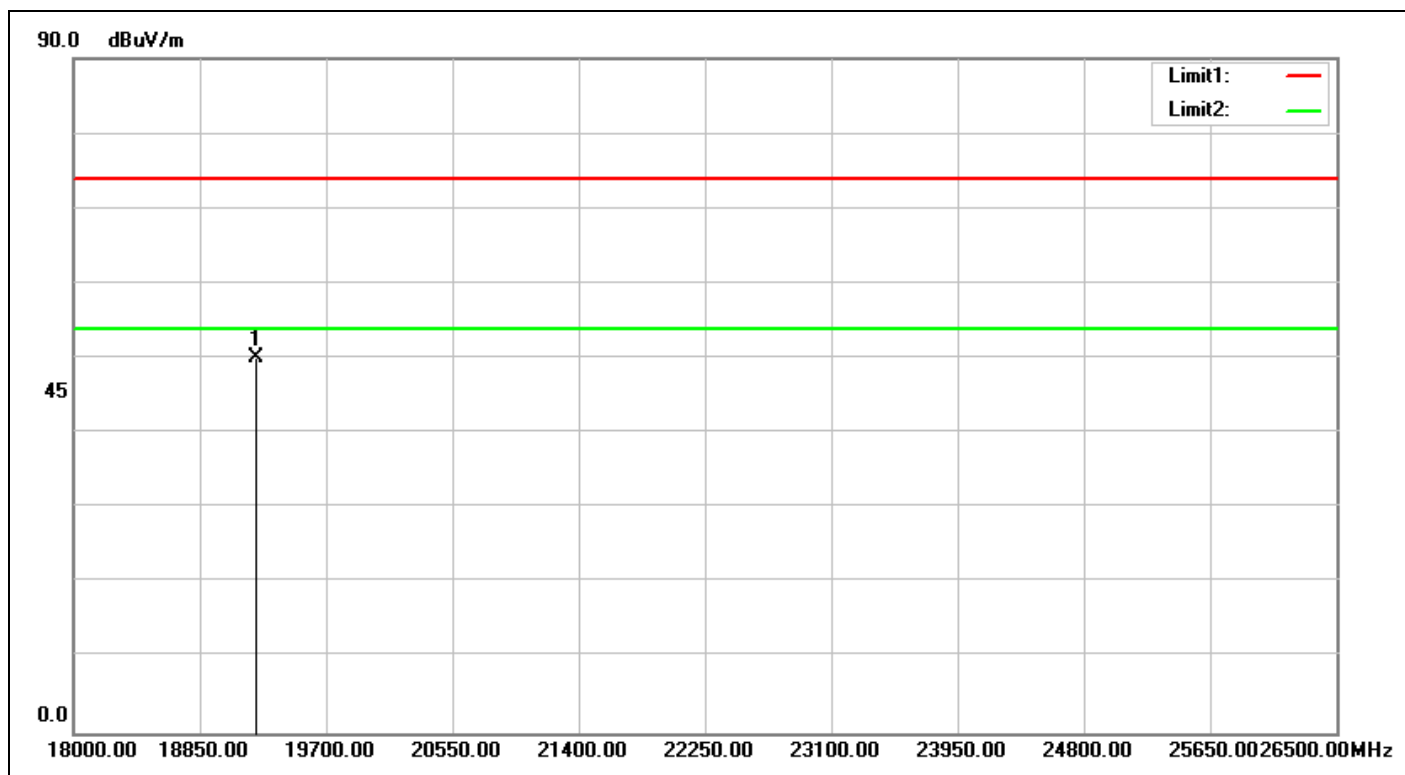
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 16:09:38
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2402-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18909.500	30.29	20.40	50.69	74.00	-23.31	peak		0	



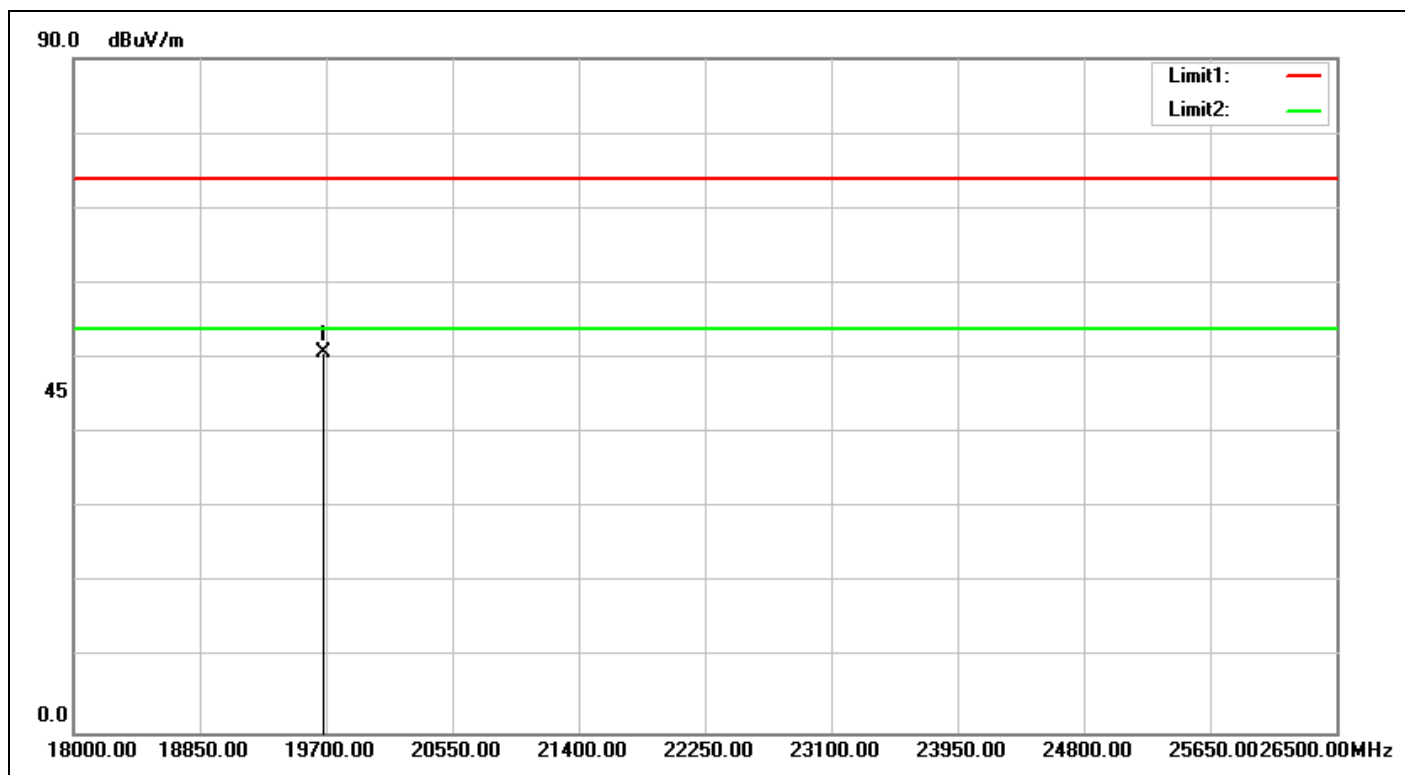
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 16:09:53
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2402-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20261.000	31.61	20.29	51.90	74.00	-22.10	peak			



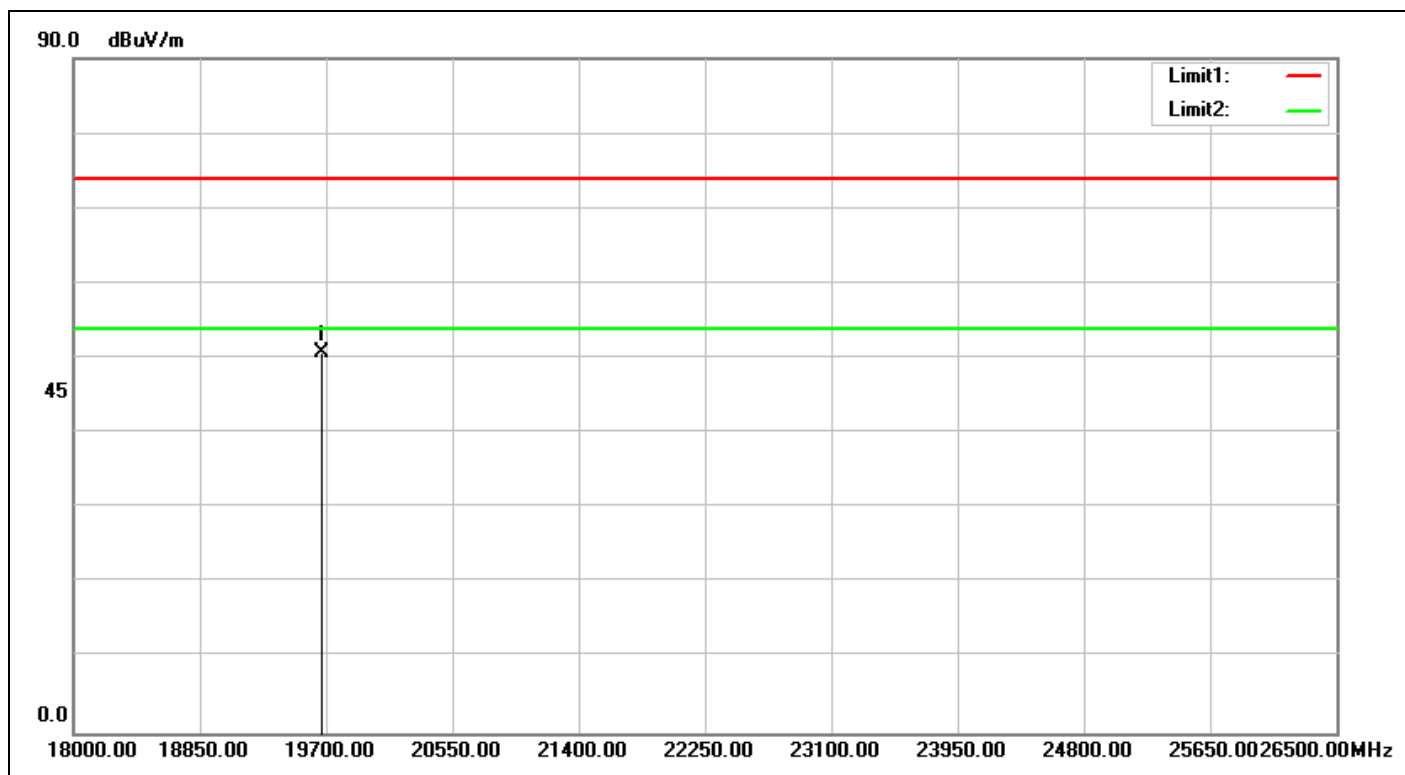
Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 16:10:27
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19224.000	30.81	19.19	50.00	74.00	-24.00	peak			



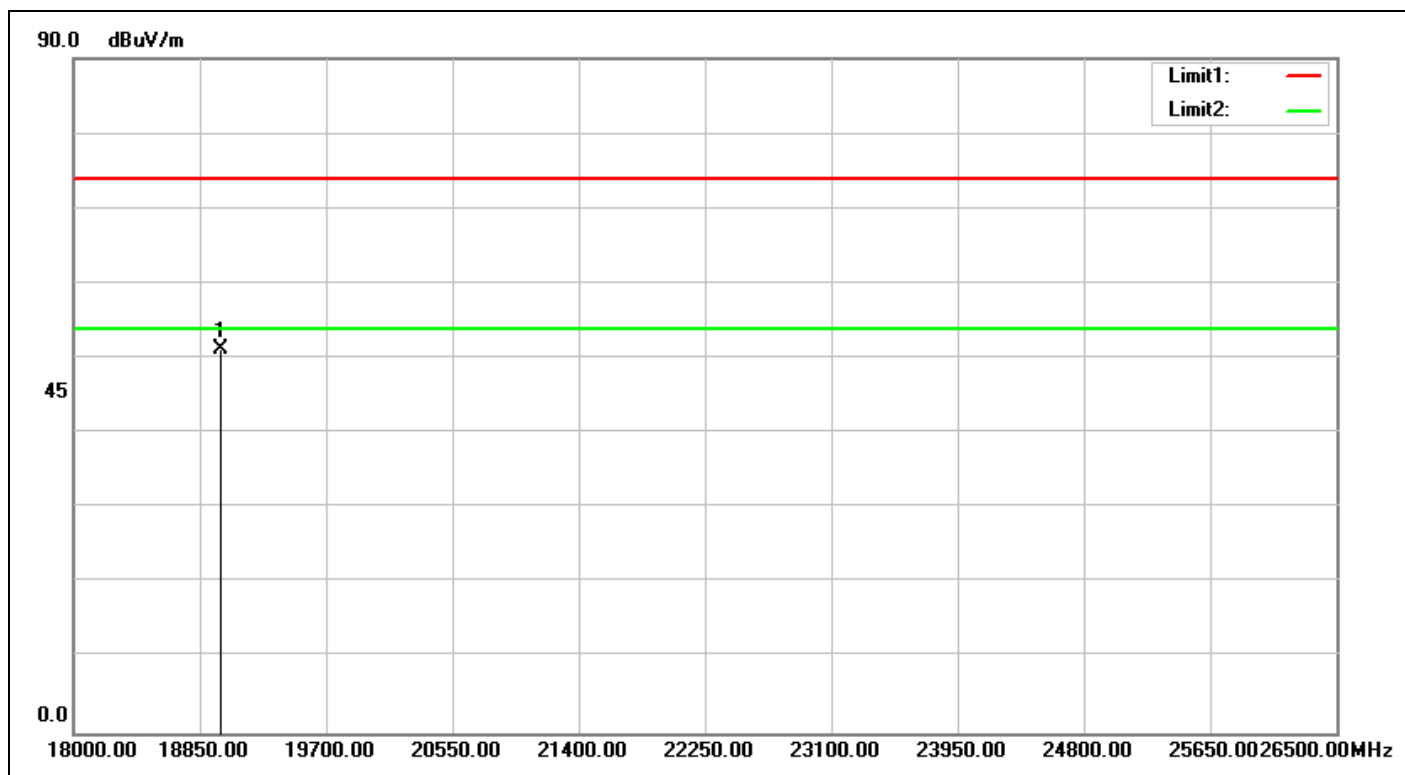
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 16:10:40
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19683.000	31.32	19.37	50.69	74.00	-23.31	peak			



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 16:11:07
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2480-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19674.500	31.31	19.37	50.68	74.00	-23.32	peak			



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 16:11:19
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2480-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18986.000	30.47	20.65	51.12	74.00	-22.88	peak			

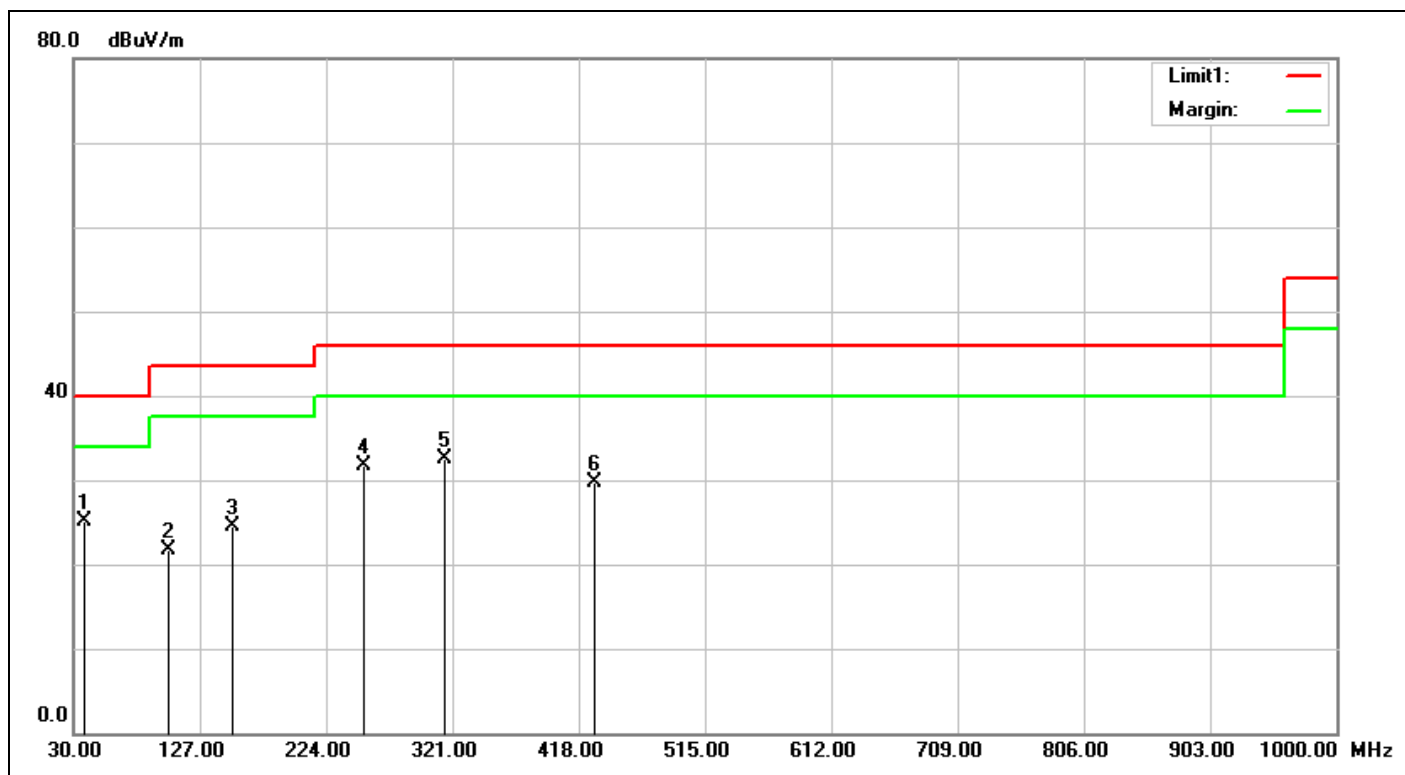
Spurious Emissions, TX Mode, 30M-1G



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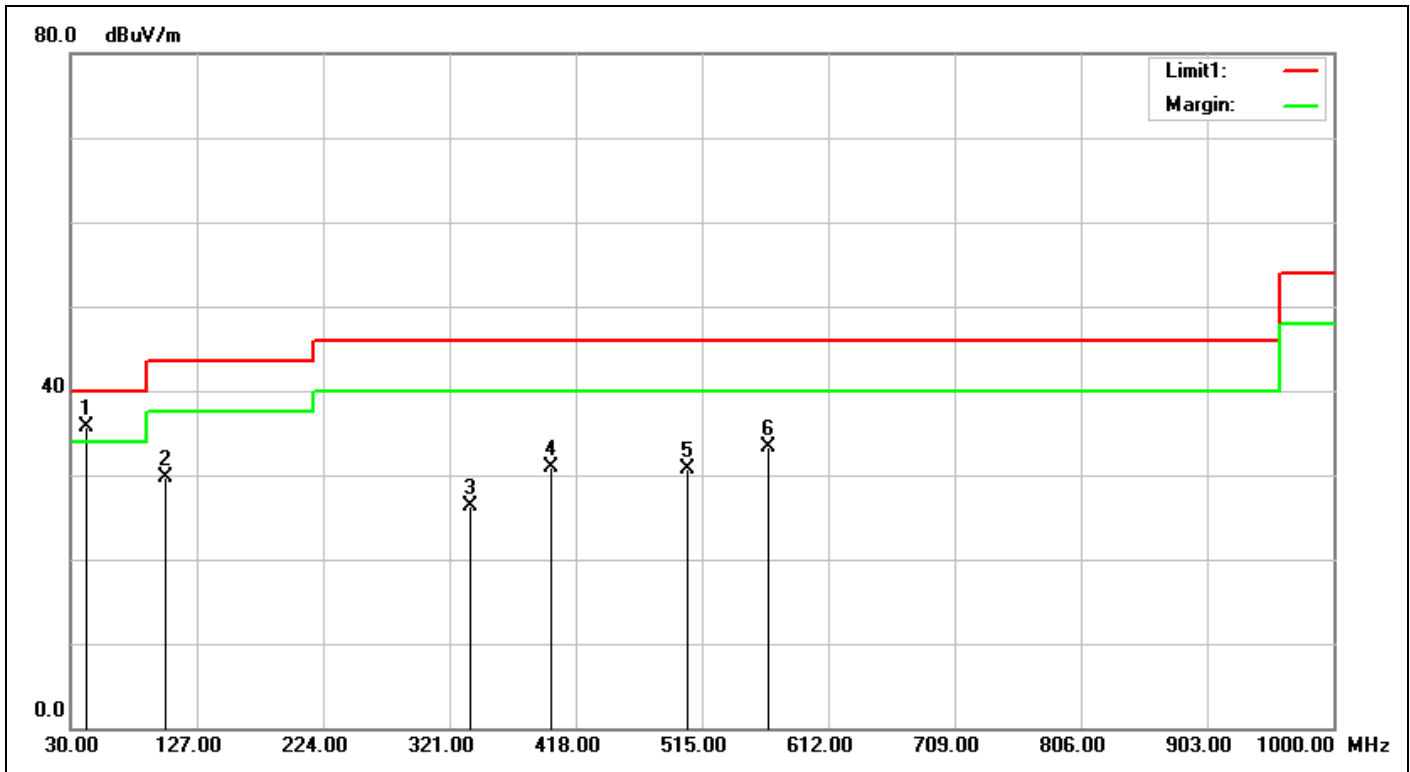
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Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/11 09:56:14
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%)	20.6(°C)/61%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	38.7299	-5.07	30.24	25.17	40.00	-14.83	QP	100	54	
2	102.7500	-9.11	30.75	21.64	43.50	-21.86	QP	100	314	
3	152.2200	-7.55	32.07	24.52	43.50	-18.98	QP	100	261	
4	253.1000	-5.47	37.25	31.78	46.00	-14.22	QP	100	123	
5	315.1800	-4.16	36.65	32.49	46.00	-13.51	QP	100	126	
6	429.6400	-2.27	31.95	29.68	46.00	-16.32	QP	100	89	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/11 09:57:17
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	20.6(°C)/61%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-TX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	41.6400	-6.73	42.35	35.62	40.00	-4.38	QP	100	315	
2	102.7500	-9.11	38.89	29.78	43.50	-13.72	QP	100	77	
3	336.5200	-3.73	30.13	26.40	46.00	-19.60	QP	100	74	
4	398.6000	-2.67	33.67	31.00	46.00	-15.00	QP	100	132	
5	503.3600	-1.33	32.07	30.74	46.00	-15.26	QP	100	149	
6	566.4100	-0.52	33.79	33.27	46.00	-12.73	QP	100	140	

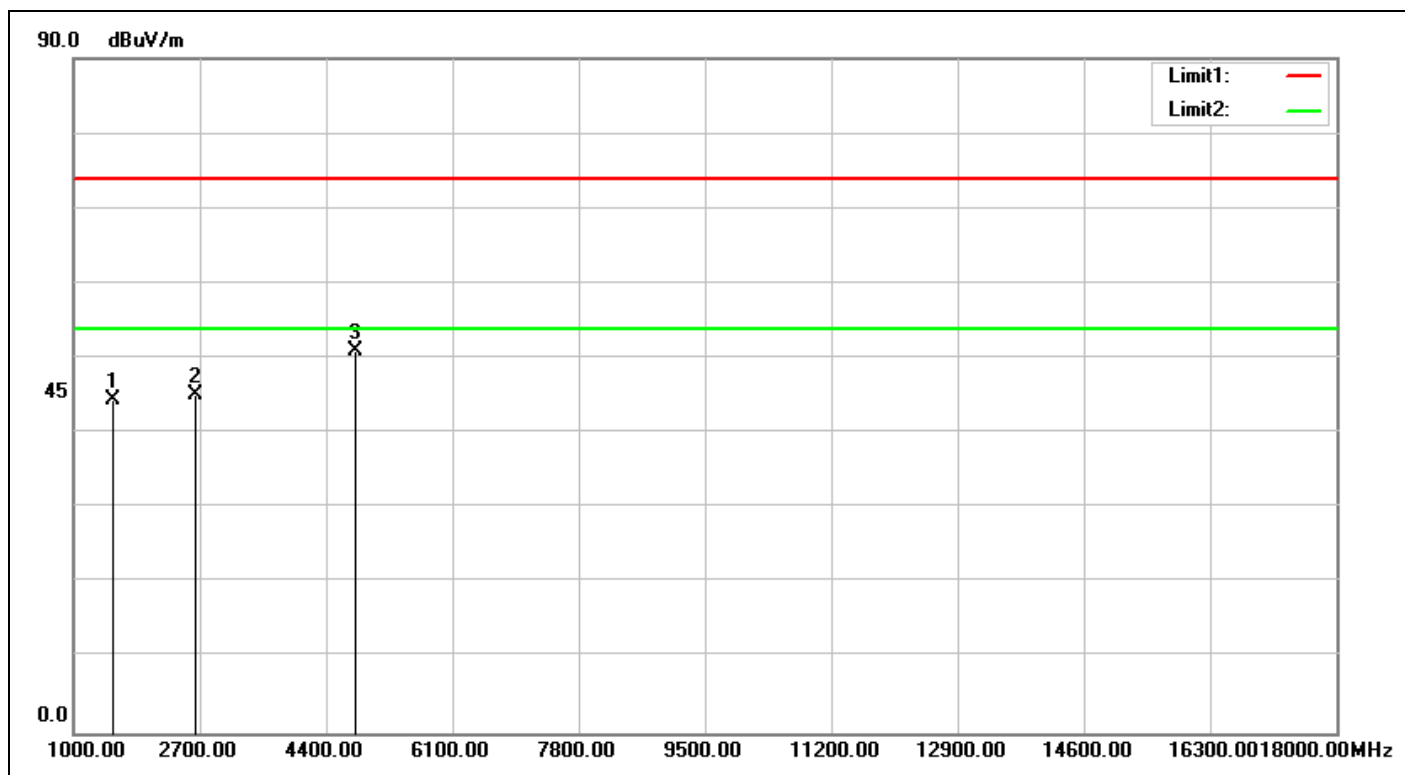
Spurious Emissions, RX Mode, 1-18G



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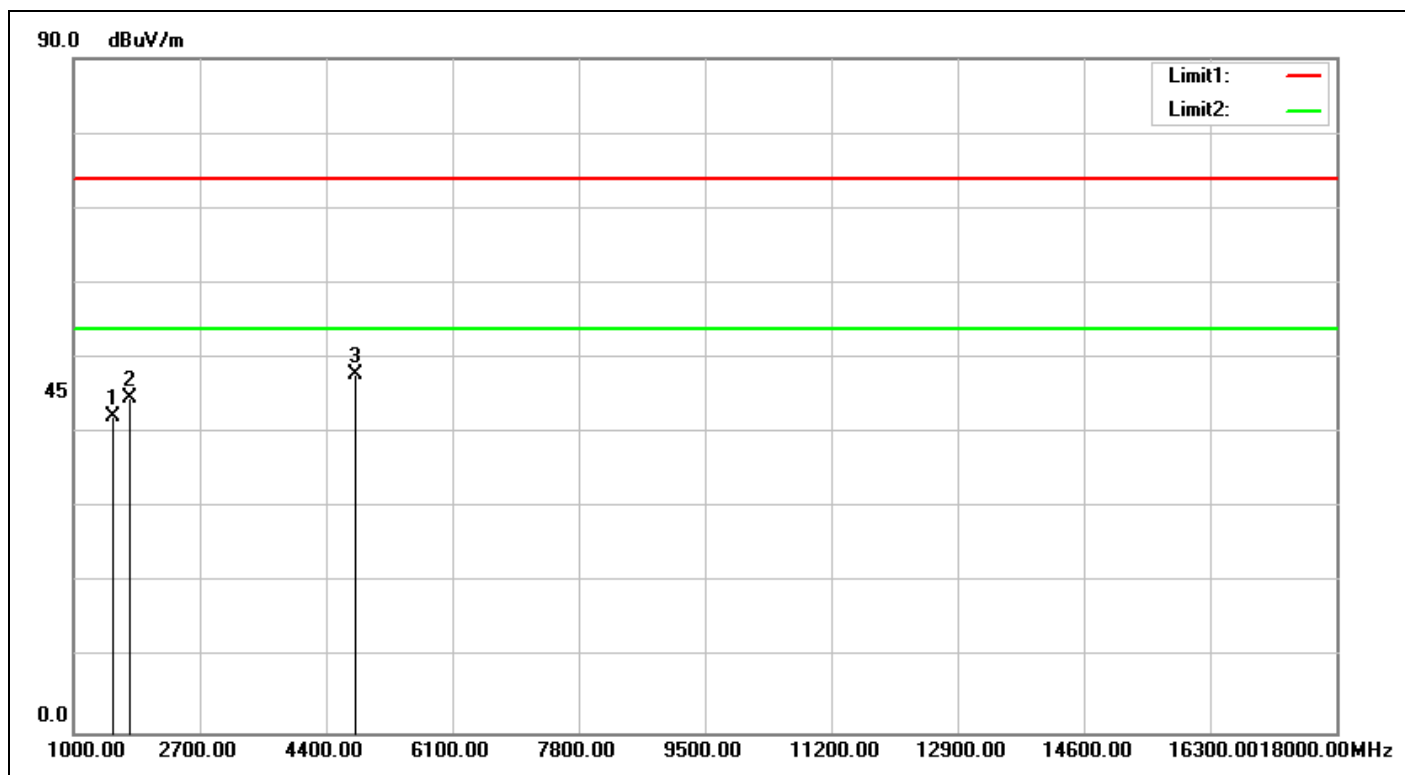
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Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 15:52:54
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%)	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-RX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1527.000	-11.10	55.44	44.34	74.00	-29.66	peak	100	105	
2	2649.000	-7.69	52.76	45.07	74.00	-28.93	peak	100	329	
3	4791.000	-3.47	54.42	50.95	74.00	-23.05	peak	100	63	



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 15:53:56
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-RX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1527.000	-11.10	53.38	42.28	74.00	-31.72	peak	100	61	
2	1765.000	-9.60	54.22	44.62	74.00	-29.38	peak	100	352	
3	4791.000	-3.47	51.27	47.80	74.00	-26.20	peak	100	156	

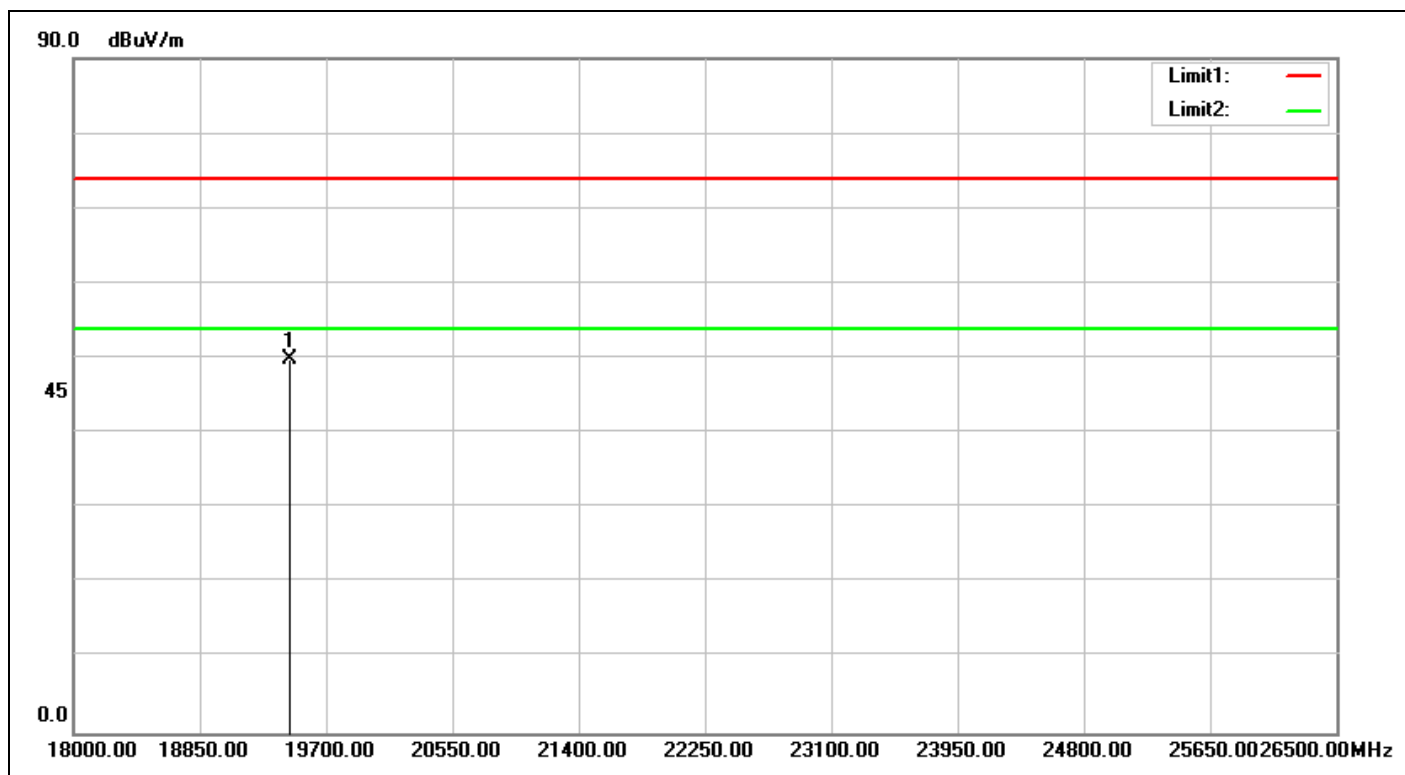
Spurious Emissions, RX Mode, 18-26G



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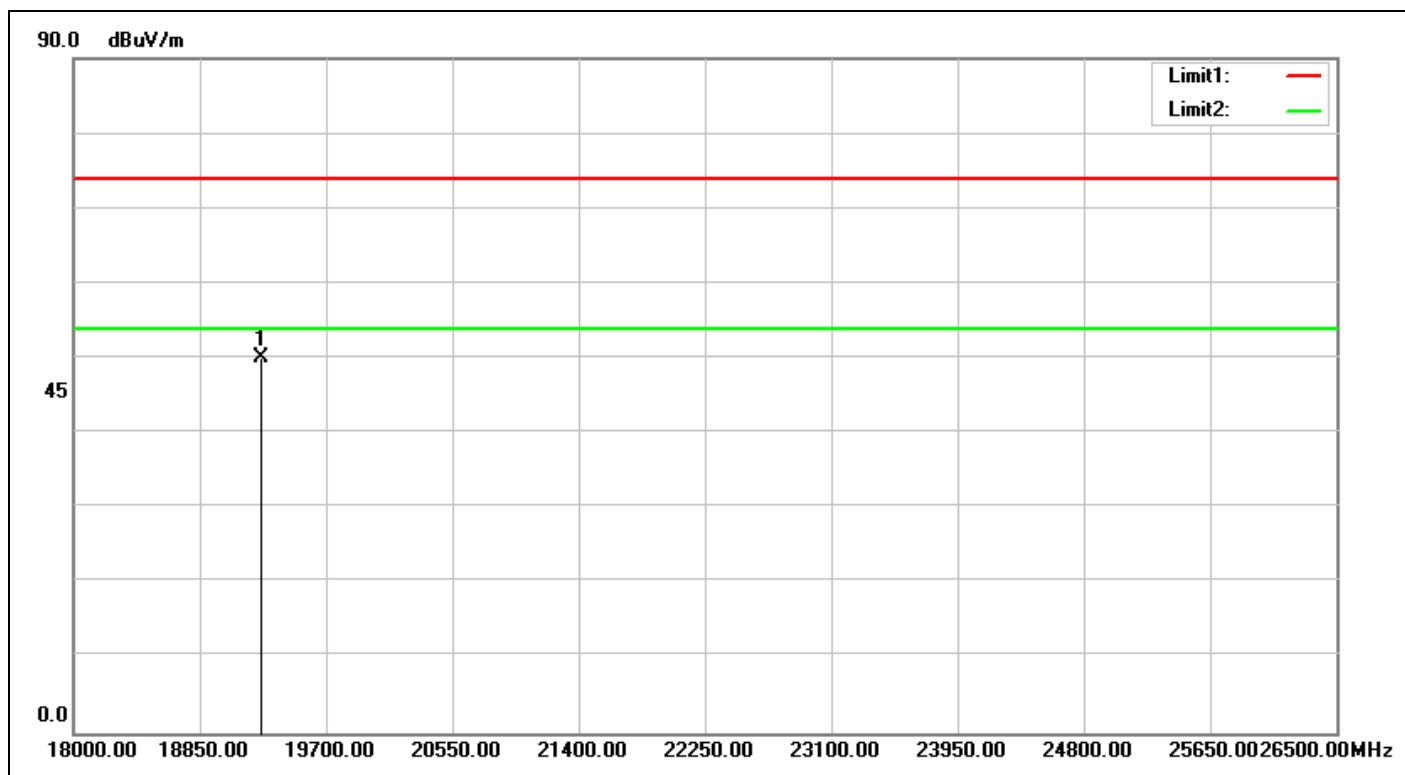
11F., No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105

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Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/10 16:08:41
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-RX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19453.500	31.15	18.60	49.75	74.00	-24.25	peak		0	



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/10 16:09:05
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-RX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19258.000	30.87	19.26	50.13	74.00	-23.87	peak			

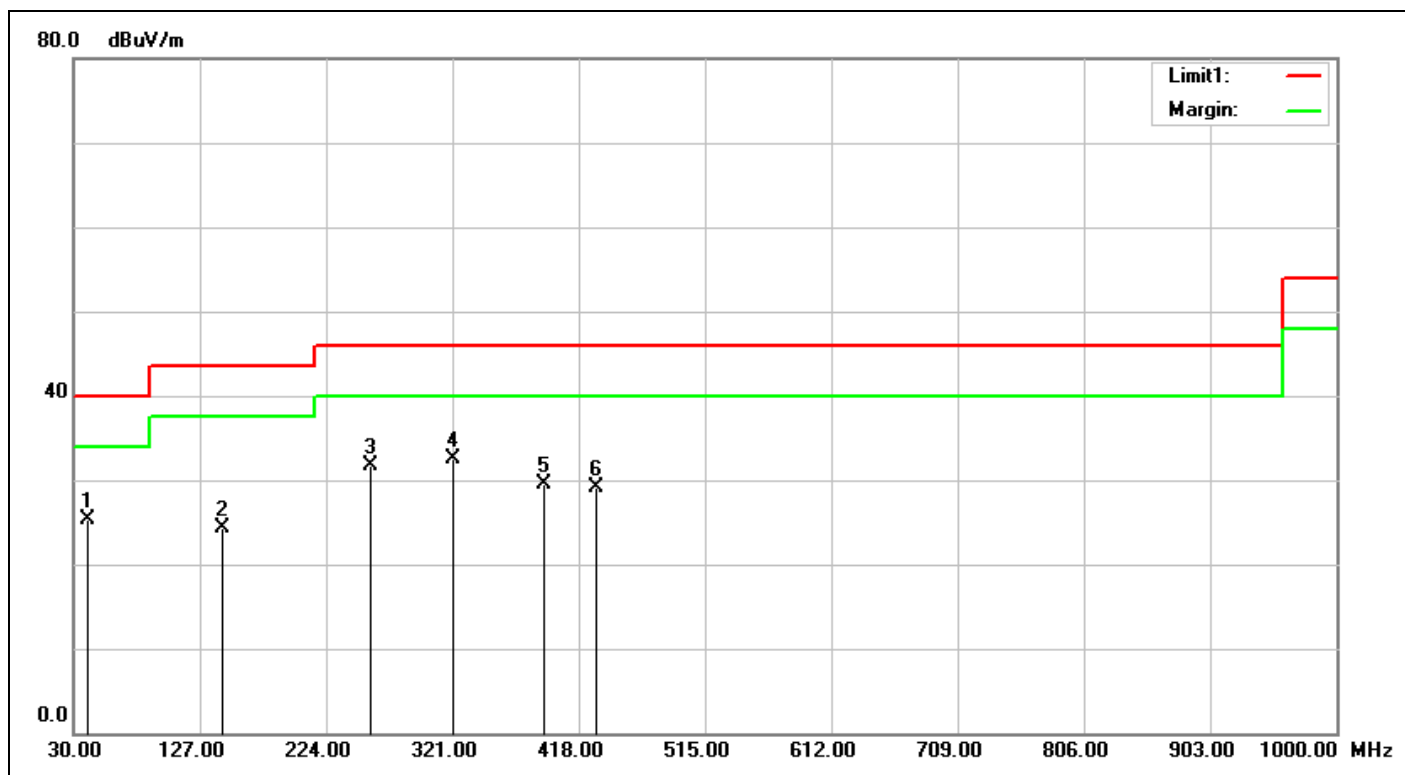
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

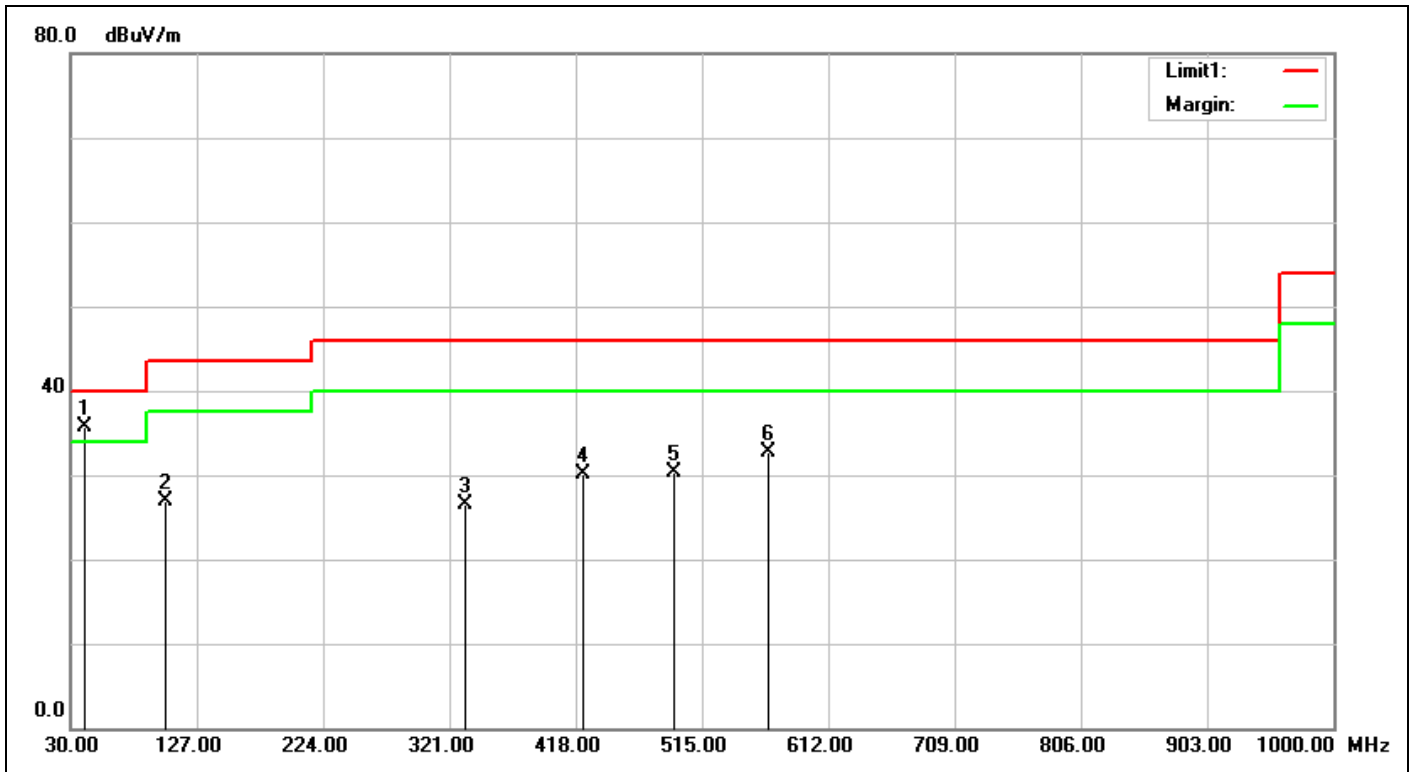
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/1/11 10:01:12
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%)	20.6(°C)/61%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-RX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	40.6700	-6.19	31.56	25.37	40.00	-14.63	QP	100	119	
2	144.4600	-7.19	31.49	24.30	43.50	-19.20	QP	100	214	
3	257.9500	-5.05	36.74	31.69	46.00	-14.31	QP	100	134	
4	321.0000	-4.05	36.59	32.54	46.00	-13.46	QP	100	111	
5	390.8399	-2.80	32.21	29.41	46.00	-16.59	QP	100	0	
6	431.5800	-2.24	31.38	29.14	46.00	-16.86	QP	100	67	

Spurious Emissions, RX Mode, 30M-1G



Service No.:	114064018	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/1/11 10:02:16
Applicant:	Kwang Yang	Test Rating:	
Product:	Noodoe	Temp.(°C)/Hum.(%):	20.6(°C)/61%
Model No.:	37130-LGC6, 37140-AEB9	Test Engineer:	Freeman Wang
Test Mode:	2440-RX		
Remark:	Z		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	40.6700	-6.19	41.88	35.69	40.00	-4.31	QP	100	335	
2	102.7500	-9.11	36.03	26.92	43.50	-16.58	QP	100	82	
3	332.6400	-3.81	30.23	26.42	46.00	-19.58	QP	100	94	
4	423.8200	-2.35	32.44	30.09	46.00	-15.91	QP	100	157	
5	493.6600	-1.44	31.68	30.24	46.00	-15.76	QP	100	160	
6	566.4100	-0.52	33.30	32.78	46.00	-13.22	QP	100	146	