

Test Report No.50081217 001

Appendix D: Radiated Emission Data

(File: 50081217AppendixD)

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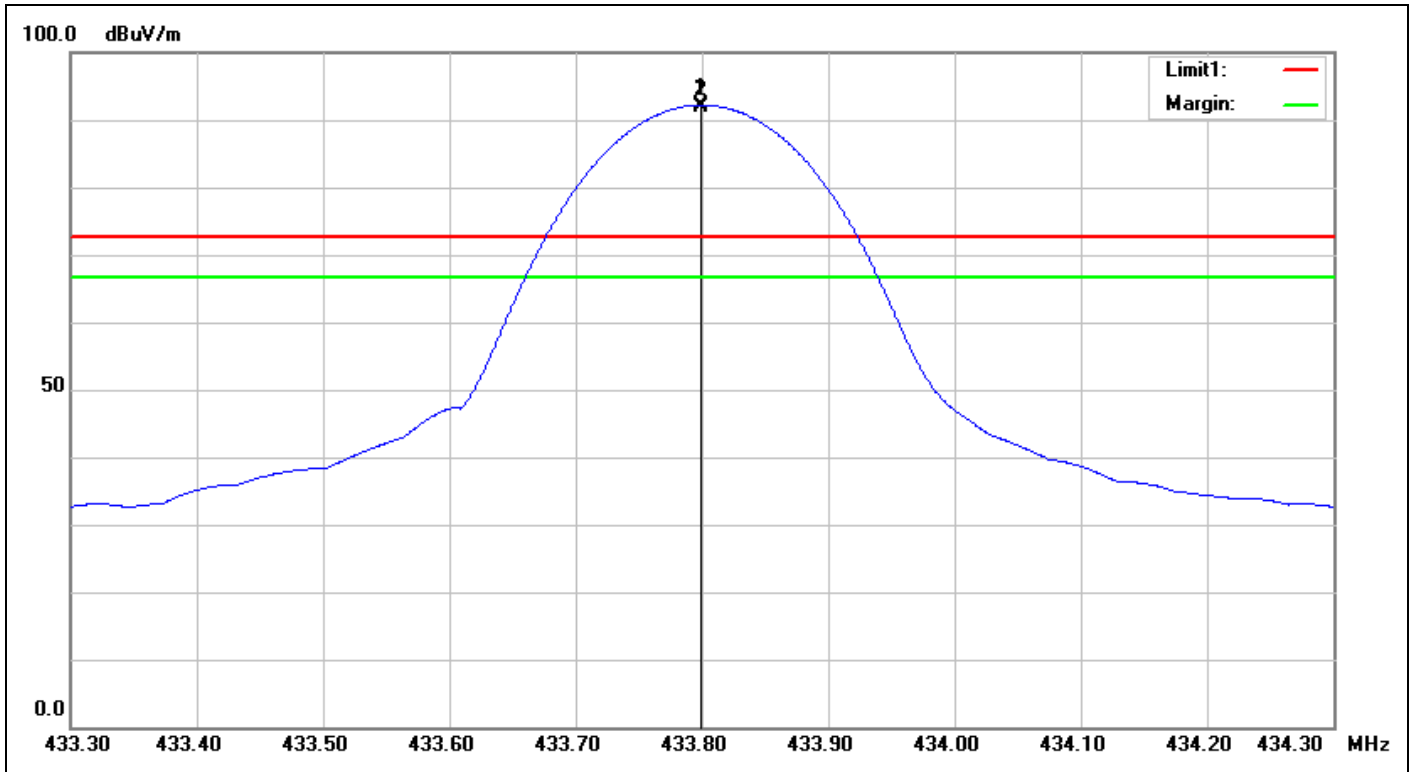
Spurious Emissions, Fundamental



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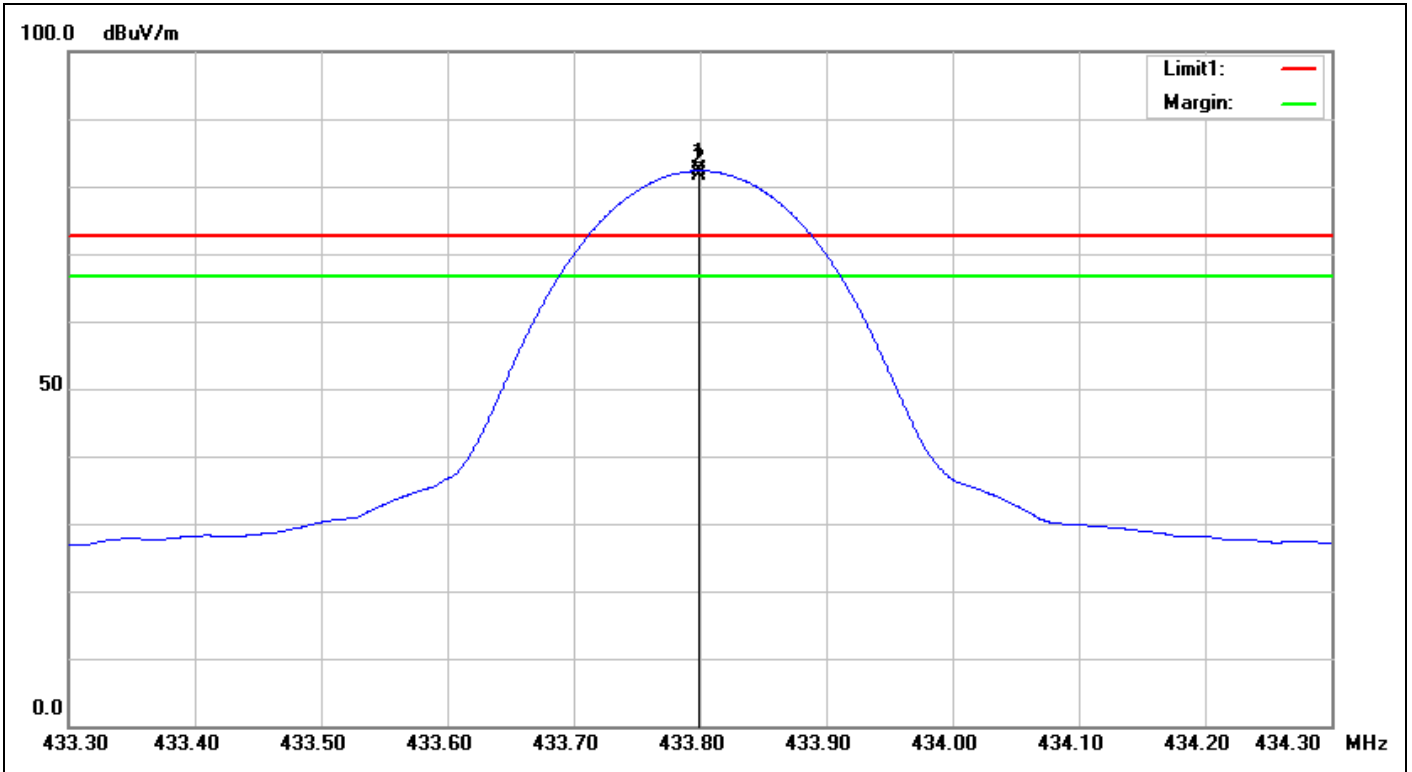
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Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC 15.231_field strength_3m(dBuV/m)	Ant. Polarization:	Horizontal
Test item:	Fundamental	Test Time:	2017/3/17 14:30:26
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	433.7990	-2.22	94.45	92.23	92.56	19.67	peak	242	326	
2	433.7990	-2.22	94.15	91.93	72.56	19.37	QP	242	326	

Remark: Duty Factor= -20 dB, thus, the average result would be 72.23dBuV



Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC 15.231_field strength_3m(dBuV/m)	Ant. Polarization:	Vertical
Test item:	Fundamental	Test Time:	2017/3/17 14:31:30
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	433.7990	-2.22	84.54	82.32	92.56	9.76	peak	100	77	
2	433.7990	-2.22	83.88	81.66	72.56	9.10	QP	100	77	

Remark: Duty Factor= -20 dB, thus, the average result would be 62.32dBuV

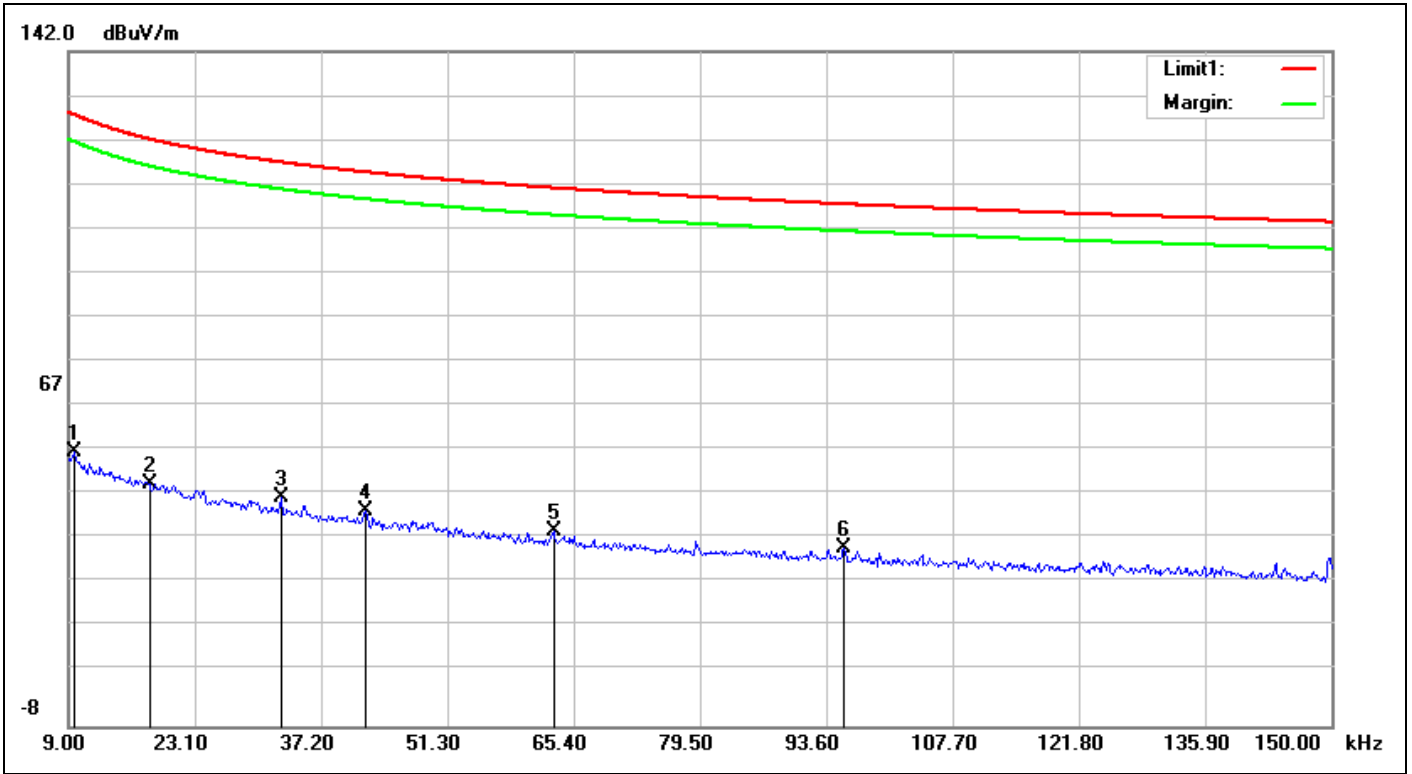
Spurious Emissions, TX Mode, 9k-150k



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Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/17 13:59:55
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0096	20.01	33.07	53.08	127.96	-74.88	QP	100	333	
2	0.0180	20.29	25.61	45.90	122.50	-76.60	QP	100	307	
3	0.0327	20.08	22.64	42.72	117.31	-74.59	QP	100	112	
4	0.0421	19.62	20.26	39.88	115.12	-75.24	QP	100	128	
5	0.0631	19.13	16.29	35.42	111.60	-76.18	QP	100	277	
6	0.0956	18.88	12.74	31.62	108.00	-76.38	QP	100	192	

Spurious Emissions, TX Mode, 9k-150k

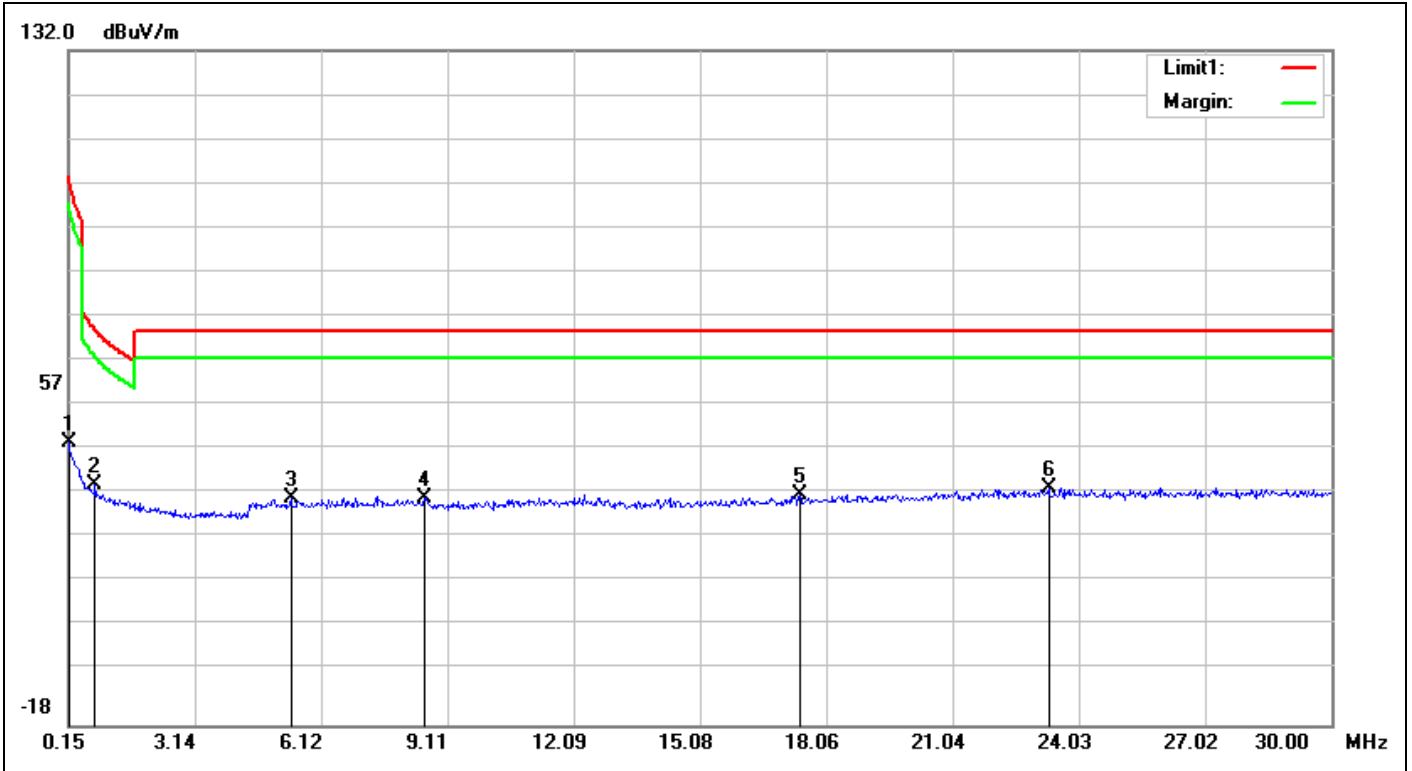
Spurious Emissions, TX Mode, 150k-30M



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Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC 15.209_9k-30M_3m(dBuV/m)	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/17 14:03:03
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.80	25.88	44.68	104.08	-59.40	QP	100	269	
2	0.7769	18.82	16.58	35.40	69.81	-34.41	QP	100	194	
3	5.4036	19.66	12.72	32.38	69.54	-37.16	QP	100	301	
4	8.5677	20.16	12.20	32.36	69.54	-37.18	QP	100	194	
5	17.4332	21.25	11.93	33.18	69.54	-36.36	QP	100	24	
6	23.3136	21.79	12.86	34.65	69.54	-34.89	QP	100	155	

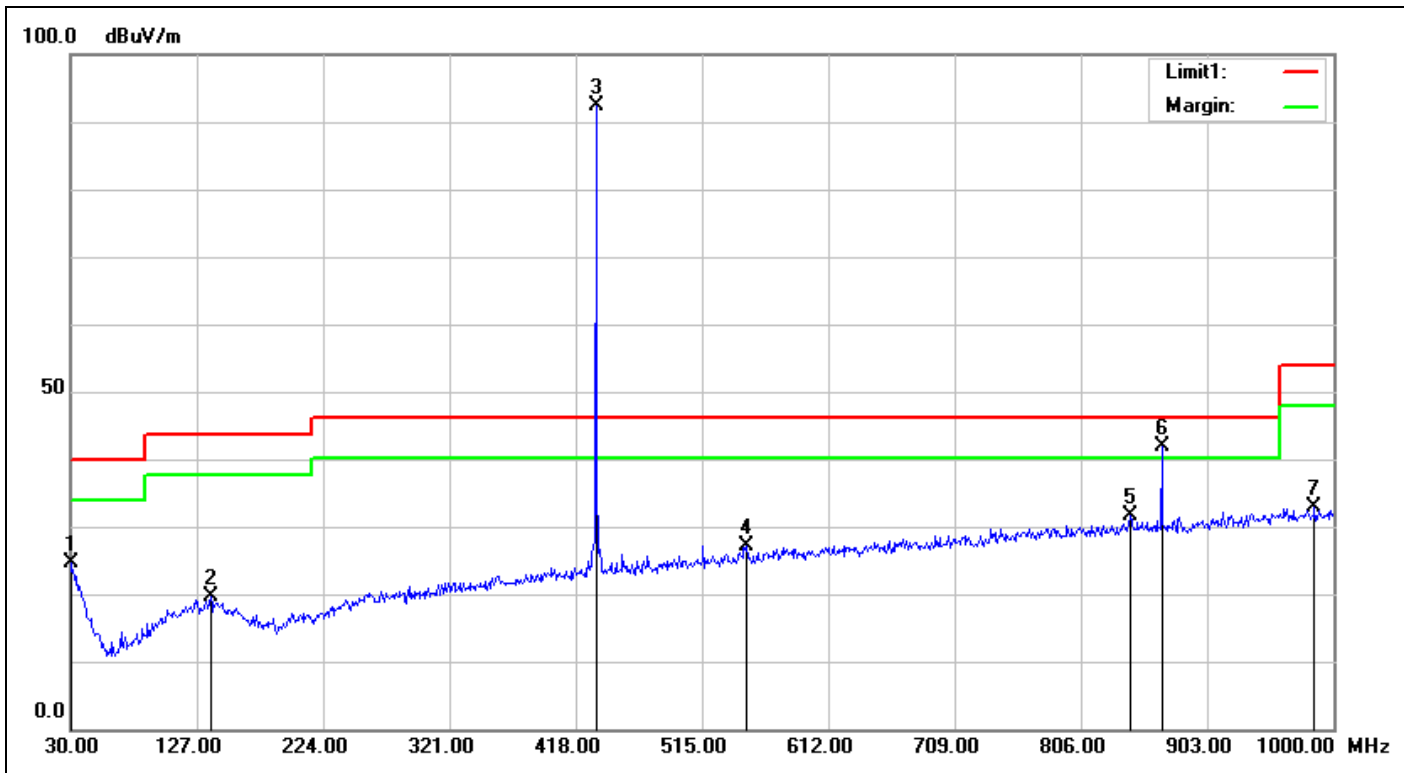
Spurious Emissions, TX Mode, 30M-1G



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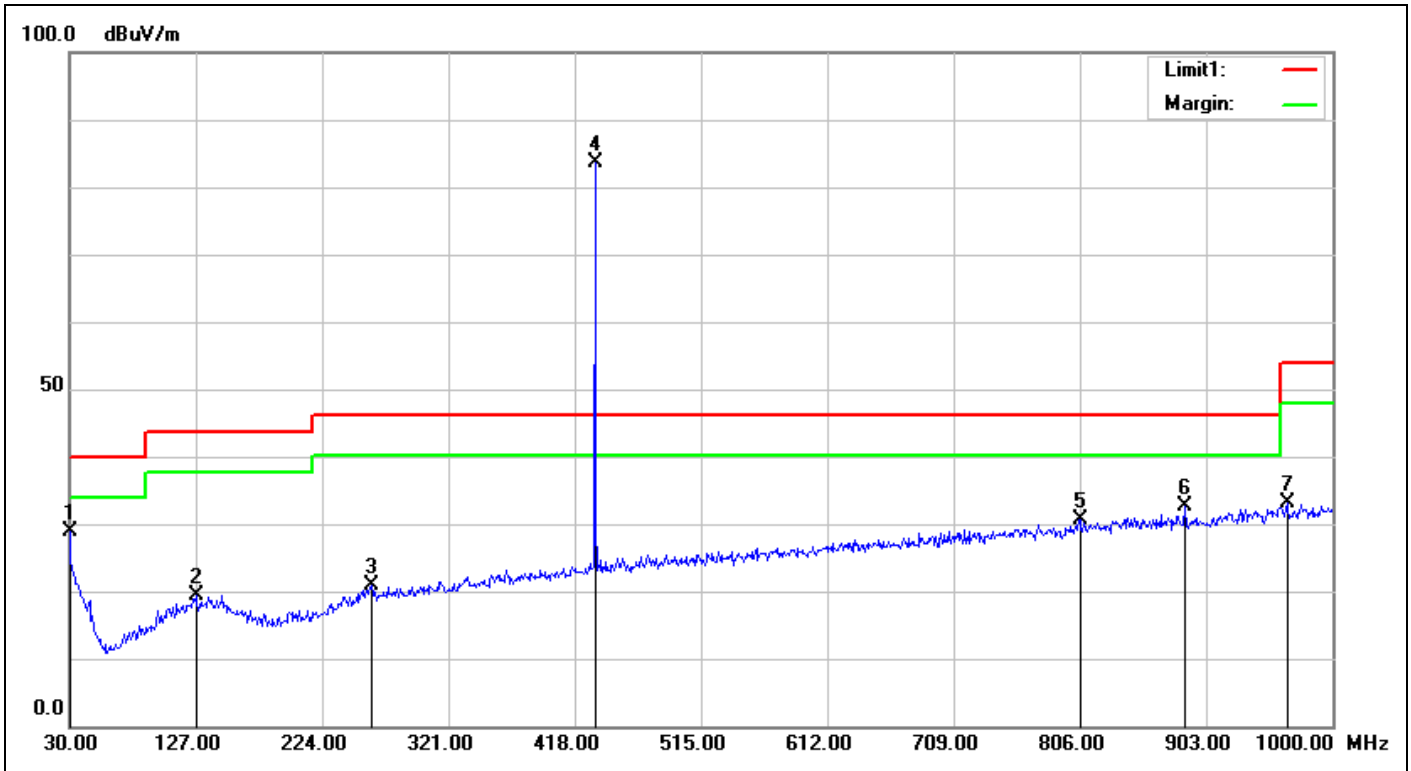
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Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/17 14:40:14
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

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	24.58	24.51	40.00	-15.49	QP	300	359	
2	137.6699	-6.99	26.54	19.55	43.52	-23.97	QP	200	359	
3	433.5200	-2.23	94.49	92.26	46.02	46.24	QP	100	328	TX
4	548.9500	-0.79	27.93	27.14	46.02	-18.88	QP	100	248	
5	843.8300	3.58	28.13	31.71	46.02	-14.31	QP	300	245	
6	868.0800	3.85	38.08	41.93	46.02	-4.09	QP	100	158	
7	985.4500	5.70	27.24	32.94	54.00	-21.06	QP	400	221	



Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC 15.209_30M-40G_3m	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/17 14:45:10
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX X		

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	28.87	28.80	40.00	-11.20	QP	100	360	
2	127.0000	-7.07	26.54	19.47	43.52	-24.05	QP	100	131	
3	261.8300	-4.96	25.74	20.78	46.02	-25.24	QP	100	360	
4	433.5200	-2.23	85.95	83.72	46.02	37.70	QP	200	229	TX
5	806.0000	2.92	27.67	30.59	46.02	-15.43	QP	200	253	
6	886.5100	4.03	28.52	32.55	46.02	-13.47	QP	400	112	
7	965.0800	5.53	27.58	33.11	54.00	-20.89	QP	400	155	

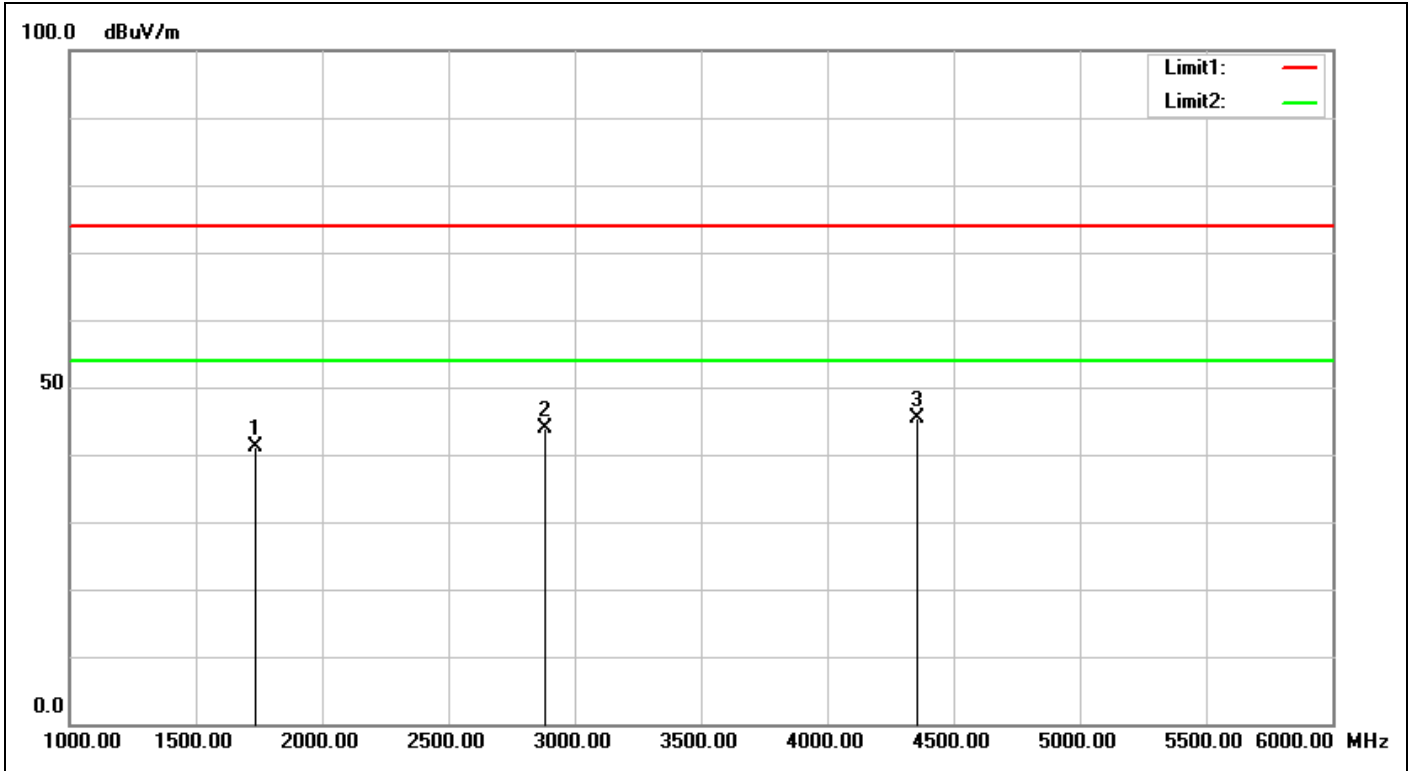
Spurious Emissions, TX Mode, 1-6G



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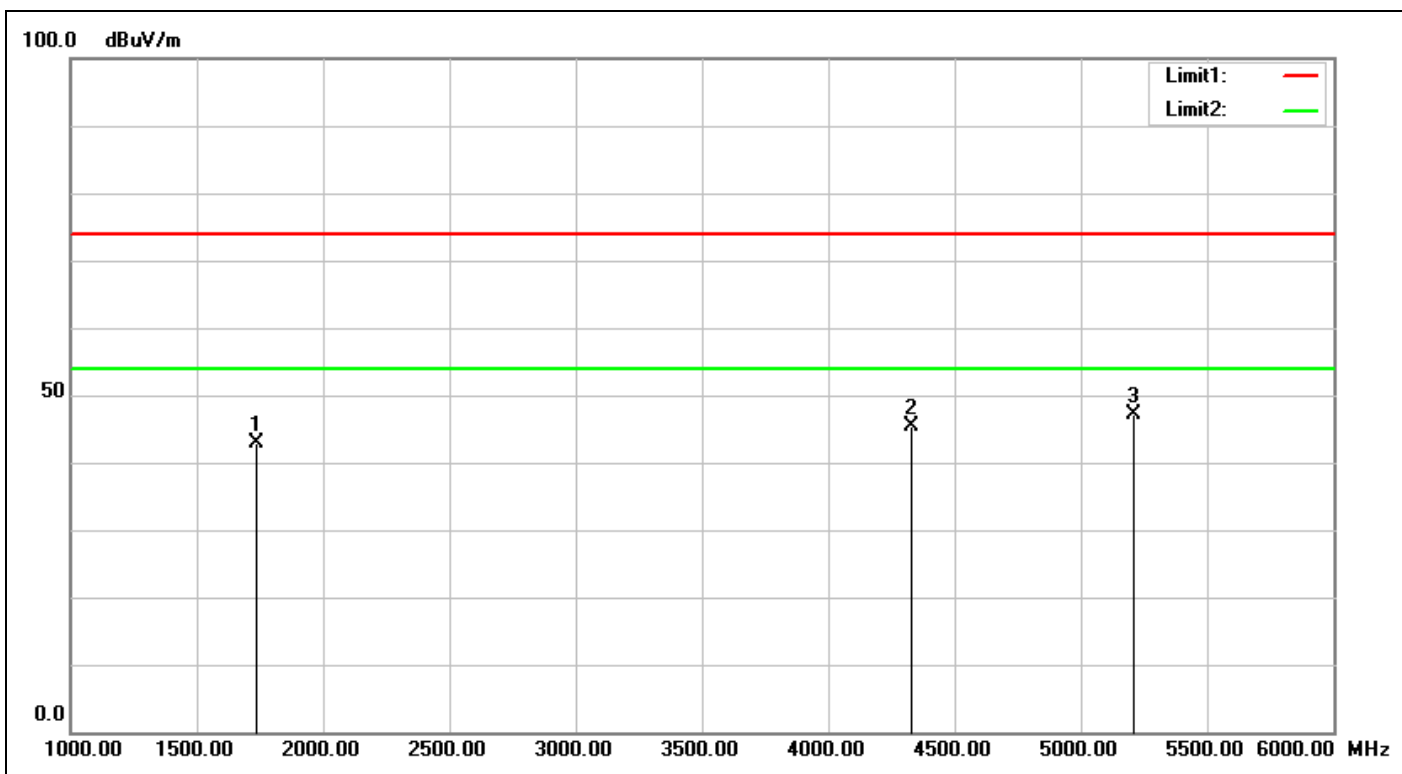
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Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/17 14:59:08
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1735.000	-9.78	50.98	41.20	74.00	-32.80	peak	100	155	
2	2885.000	-7.32	51.16	43.84	74.00	-30.16	peak	100	62	
3	4355.000	-4.33	49.72	45.39	74.00	-28.61	peak	100	187	



Service No.:	114061471	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/17 15:00:12
Applicant:	Nedap	Test Rating:	DC 3.6V
Product:	Neck Tag Rumination Act FDX 434 MHz	Temp.(°C)/Hum.(%):	20.3(°C)/52%
Model No.:	NECK TAG RUMINATION ACT	Test Engineer:	Freeman Wang
Test Mode:			
Remark:	433.8-TX		
	X		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1735.000	-9.78	52.62	42.84	74.00	-31.16	peak	100	269	
2	4330.000	-4.43	49.76	45.33	74.00	-28.67	peak	100	213	
3	5210.000	-2.13	49.28	47.15	74.00	-26.85	peak	100	86	