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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Site: DG-CB03

Limit: FCC Class B 3m Radiation

File:FCCP_BELOW1G_1

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: Horizontal

Temperature:

Time: 2:49:47

Humidity: 60 %

Distance: 3m Mode: TX_G_2437

Radiated Emission Measurement

Data :#14

Power: DC 5V

			_

Date: 2017-3-9



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	75.590	38.90	-16.52	22.38	40.00	-17.62	peak	
2	191.020	35.31	-13.99	21.32	43.50	-22.18	peak	
3 *	264.740	45.26	-13.84	31.42	46.00	-14.58	peak	
4	357.860	36.17	-10.68	25.49	46.00	-20.51	peak	
5	546.040	31.41	-4.96	26.45	46.00	-19.55	peak	
6	804.060	28.14	0.14	28.28	46.00	-17.72	peak	

*:Maximum data Reference Only x:Over limit !:over margin

File: FCCP_BELOW1G_1\Data:#14 Test engineer : Welly Page: 1

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



60 %

Site: DG-CB03

Limit: FCC Class B 3m Radiation

File:FCCP_BELOW1G_1

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

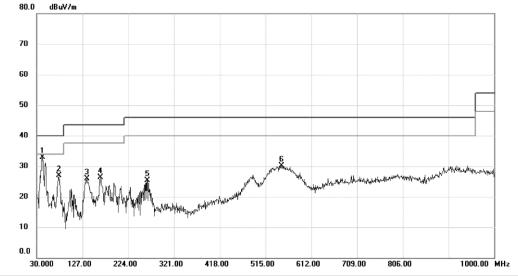
Polarization: Vertical Temperature:

Power: DC 5V Humidity:

Distance: 3m Mode: TX_G_2462

Radiated Emission Measurement

Data :#6	Date: 2017-3-9	Time: 2:39:48	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	42.610	46.22	-13.36	32.86	40.00	-7.14	peak	
2		76.560	43.36	-16.41	26.95	40.00	-13.05	peak	
3		136.700	39.28	-13.28	26.00	43.50	-17.50	peak	
4		164.830	38.55	-12.20	26.35	43.50	-17.15	peak	
5		264.740	39.19	-13.84	25.35	46.00	-20.65	peak	
6		549.920	34.58	-4.55	30.03	46.00	-15.97	peak	

*:Maximum data Reference Only x:Over limit !:over margin

File: FCCP_BELOW1G_1\Data:#6 Page: 1 Test engineer : Welly

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Temperature:

Humidity: 60 %

Site: DG-CB03

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

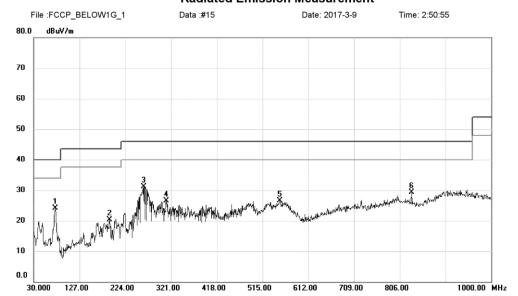
M/N: SWWHD-INTCAM

Note:

Polarization: Horizontal

Power: DC 5V

Distance: 3m Mode: TX_G_2462



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	75.590	40.62	-16.52	24.10	40.00	-15.90	peak	
2	191.020	34.20	-13.99	20.21	43.50	-23.29	peak	
3 *	263.770	44.94	-13.91	31.03	46.00	-14.97	peak	
4	311.300	36.87	-10.40	26.47	46.00	-19.53	peak	
5	551.860	31.15	-4.63	26.52	46.00	-19.48	peak	
6	831.220	29.96	-0.69	29.27	46.00	-16.73	peak	

*:Maximum data Reference Only x:Over limit !:over margin

File:FCCP_BELOW1G_1\Data:#15 Page: 1 Test engineer :

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Temperature:

Humidity: 60 %

Site: DG-CB03

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

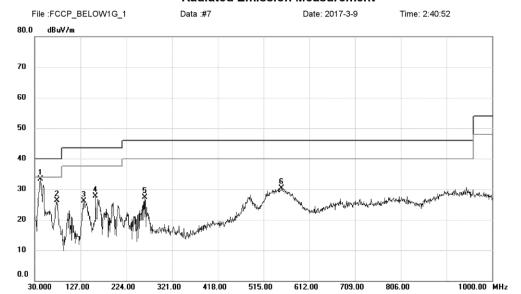
Polarization: Vertical

Power: DC 5V

Distance: 3m

Mode: TX_N20_2412

Radiated	EIIIISSIOII	weasur	ement



No. M	1k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	42.610	46.62	-13.36	33.26	40.00	-6.74	peak	
2	77.530	42.67	-16.31	26.36	40.00	-13.64	peak	
3	133.790	38.94	-12.88	26.06	43.50	-17.44	peak	
4	159.010	40.00	-12.22	27.78	43.50	-15.72	peak	
5	263.770	41.21	-13.91	27.30	46.00	-18.70	peak	
6	553.800	35.11	-4.73	30.38	46.00	-15.62	peak	

*:Maximum data x:Over limit Reference Only !:over margin

File: FCCP_BELOW1G_1\Data:#7 Page: 1 Test engineer : Welly

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Temperature:

Humidity: 60 %

Welly

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: Horizontal

Power: DC 5V

Distance: 3m

Mode: TX_N20_2412

Dadiated	Fi	1/1
Radiated	Emission	Measurement

File :FCCP_BELOW1G_	1 Data :#16		Date: 2017-3-9	Time: 2:52:12
80.0 dBuV/m				
70				
60				
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· hypery walled				
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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	75.590	38.61	-16.52	22.09	40.00	-17.91	peak	
2	191.020	34.63	-13.99	20.64	43.50	-22.86	peak	
3 *	261.830	44.85	-14.07	30.78	46.00	-15.22	peak	
4	313.240	36.47	-10.44	26.03	46.00	-19.97	peak	
5	487.840	34.85	-9.30	25.55	46.00	-20.45	peak	
6	819.580	28.53	-0.32	28.21	46.00	-17.79	peak	

*:Maximum data x:Over limit Reference Only !:over margin

File:FCCP_BELOW1G_1\Data:#16 Page: 1 Test engineer :

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Site: DG-CB03

File:FCCP_BELOW1G_1

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

dBuV/m

Note:

80.0

70

60

50

30

20

10

Polarization: Vertical Temperature: Power: DC 5V Humidity: 60 %

Distance: 3m

Radiated Emission Measurement

Mode: TX_N20_2437

Data :#8	D	ate: 2017-3-9	9	Time: 2:42:28	

0.0									
30	0.000 127.00	224.00	321.00	418.00	515.00	612.00	709.00	0 806.00	1000.00 MHz
No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	41.640	46.06	-13.56	32.50	40.00	-7.50	peak		
2	75.590	43.09	-16.52	26.57	40.00	-13.43	peak		
3	136.700	38.69	-13.28	25.41	43.50	-18.09	peak		
4	165.800	38.48	-12.21	26.27	43.50	-17.23	peak		
5	256.010	39.80	-14.20	25.60	46.00	-20.40	peak		
6	543 130	35 20	-5.25	29 95	46 00	-16 05	neak		

*:Maximum data Reference Only x:Over limit !:over margin

File: FCCP_BELOW1G_1\Data:#8 Test engineer : Welly Page: 1

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Temperature:

Humidity: 60 %

Site: DG-CB03

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

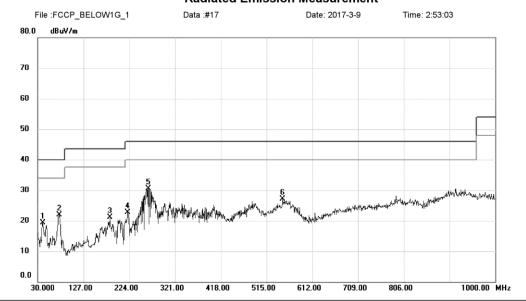
Polarization: Horizontal

Power: DC 5V

Distance: 3m

Mode: TX_N20_2437

Radiated Emission Measurement



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	40.670	33.01	-13.77	19.24	40.00	-20.76	peak	
2	75.590	38.39	-16.52	21.87	40.00	-18.13	peak	
3	183.260	34.39	-13.20	21.19	43.50	-22.31	peak	
4	221.090	36.91	-14.16	22.75	46.00	-23.25	peak	
5 *	264.740	44.27	-13.84	30.43	46.00	-15.57	peak	
6	549.920	31.62	-4.55	27.07	46.00	-18.93	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only} \)

File: FCCP_BELOW1G_1\Data:#17 Page: 1 Test engineer: Welly

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Humidity: 60 %

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Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: Vertical Temperature:

Power: DC 5V

Distance: 3m Mode: TX_N20_2462

		Radiated Er	mission Measurement	
Fil	le :FCCP_BELOW1G_1	Data :#9	Date: 2017-3-9	Time: 2:43:31
0.0	dBuV/m			
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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	41.640	46.88	-13.56	33.32	40.00	-6.68	peak	
2	77.530	42.76	-16.31	26.45	40.00	-13.55	peak	
3	136.700	38.63	-13.28	25.35	43.50	-18.15	peak	
4	163.860	37.85	-12.18	25.67	43.50	-17.83	peak	
5	260.860	39.95	-14.14	25.81	46.00	-20.19	peak	
6	552.830	35.08	-4.68	30.40	46.00	-15.60	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only} \)

File: FCCP_BELOW1G_1\Data:#9 Page: 1 Test engineer: Welly

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: Horizontal

Power: DC 5V

Temperature: Humidity: 60 %

Welly

Distance: 3m

Mode: TX_N20_2462

|--|

File	e :FCCP_BEI	LOW1G_1		Data :#18			Date: 2017-3-	9	Time: 2:54:1	7
30.0	dBuV/m									
70										
50										
50		_								
10										
30		2	3 Å 4			5 .A.B.w.			6	artractor detrops, Northe
20	V	<u>^</u> /\/\/\/ _{\\}		ologicky of the solution of th	Mary and the property of the second	Mayor Show A Comment	nder of the last of the works	ANKAHAPANA	- Ardyler	
10	"Well of warm.	ħ. I.								
).0										

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.590	38.54	-16.52	22.02	40.00	-17.98	peak	
2		221.090	37.20	-14.16	23.04	46.00	-22.96	peak	
3	*	266.680	44.56	-13.68	30.88	46.00	-15.12	peak	
4		310.330	37.26	-10.38	26.88	46.00	-19.12	peak	
5		543.130	31.81	-5.25	26.56	46.00	-19.44	peak	
6		801.150	27.07	0.23	27.30	46.00	-18.70	peak	

*:Maximum data x:Over limit Reference Only !:over margin

File:FCCP_BELOW1G_1\Data:#18 Page: 1 Test engineer :

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Appendix A.15: Spurious Emissions above 1 GHz



Neutron Engineering Inc. BTL Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China. Fax: (0769)-8319-6000 Post Code: 523792 Tel: (0769)-8318-3000

Polarization: Vertical Power: DC 5V

Humidity: 60 %

Temperature:

Limit: FCC RF_15.247_3M_(Peak) EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2412

Note:

Radiated Emission Measurement Data :#1 Date: 2016-11-25 File:FCCP_ABOVE1G Time: 9:17:52 80.0 dBuV/m 70 60 50 1 2 X 40 30 20 10 1000.000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.890	38.95	4.85	43.80	74.00	-30.20	peak	
2	*	4823.960	33.08	4.85	37.93	54.00	-16.07	AVG	

Reference Only *:Maximum data x:Over limit !:over margin

File:FCCP_ABOVE1G\Data:#1 Page: 1 Test engineer: Vincent

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M/N: SWWHD-INTCAM

Neutron Engineering Inc.

No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: Horizontal Power: DC 5V

Temperature: Humidity: 60 %

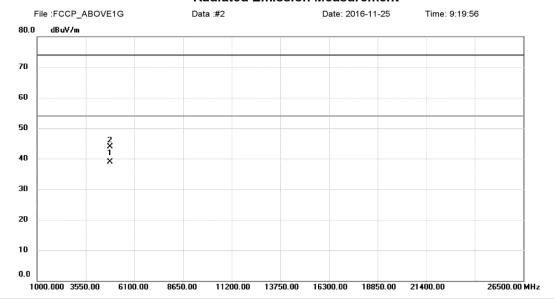
Vincent

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

Note:

Mode: TX_B_2412

Padiated	Emission	Measurement
Naulateu		Measul elllell



No.	М	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	48	23.958	34.15	4.85	39.00	54.00	-15.00	AVG	
2		48	24.083	39.13	4.85	43.98	74.00	-30.02	peak	

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_ABOVE1G\Data:#2 Page: 1 Test engineer :

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

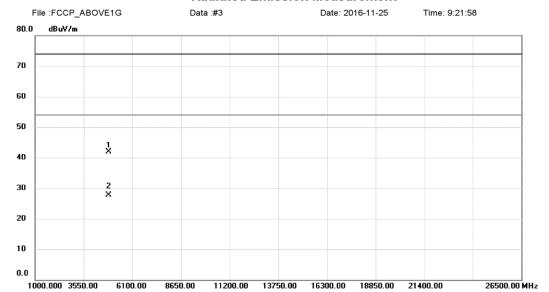
Polarization: Vertical Power: DC 5V

Temperature: Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera Distance: 3m M/N: SWWHD-INTCAM Mode: TX_B_2437

Note:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4	4874.318	36.92	5.06	41.98	74.00	-32.02	peak	
2	* 4	4874.915	22.58	5.06	27.64	54.00	-26.36	AVG	

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_ABOVE1G\Data:#3

Page: 1

Test engineer :

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: Horizontal Power: DC 5V

Temperature:

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

Radiated Emission Measurement

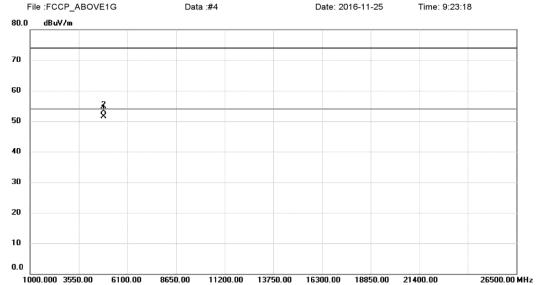
Humidity: 60 %

M/N: SWWHD-INTCAM

Mode: TX_B_2437

Note:

Data:#4 Date: 2016-11-25 Time: 9:23:18



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.950	46.36	5.06	51.42	54.00	-2.58	AVG	
2		4874.015	48.25	5.06	53.31	74.00	-20.69	peak	

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_ABOVE1G\Data:#4

Page: 1

Test engineer :

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M/N: SWWHD-INTCAM

Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

3

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: **Vertical**Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

D Smart Security Camera Distance: 3m Mode: TX_B_2462

Note:

Radiated Emission Measurement Data :#5 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:25:20 80.0 dBuV/m 70 60 50 40 30 20 10 0.0 8650.00 13750.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 16300.00 18850.00 21400.00

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.993	38.23	5.27	43.50	54.00	-10.50	AVG	
2		4924.115	41.54	5.27	46.81	74.00	-27.19	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File :FCCP_ABOVE1G\Data :#5

Page: 1

Test engineer:

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: *Horizontal* Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2462

Note:

Radiated Emission Measurement File:FCCP_ABOVE1G Data :#6 Date: 2016-11-25 Time: 9:27:59 80.0 dBuV/m 70 60 50 40 30 20 10 13750.00 8650.00 21400.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 16300.00 18850.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.953	37.98	5.27	43.25	54.00	-10.75	AVG	
2		4923.993	42.24	5.27	47.51	74.00	-26.49	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File:FCCP_ABOVE1G\Data:#6

Page: 1

Test engineer:

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: Vertical Power: DC 5V

Temperature:

Distance: 3m

Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Mode: TX_G_2412

Note:

Radiated Emission Measurement Data :#7 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:29:47 80.0 dBuV/m 70 60 50 40 ž 30 20 10 0.0 8650.00 13750.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 16300.00 18850.00 21400.00

No.	М	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.015	22.73	4.85	27.58	54.00	-26.42	AVG	
2		4825.047	32.49	4.86	37.35	74.00	-36.65	peak	

*:Maximum data x:Over limit !:over margin Reference Only

File:FCCP_ABOVE1G\Data:#7

Page: 1

Test engineer :

50062633 001



Produkte Products

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: *Horizontal* Power: DC 5V

Temperature: 25 (C)

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

Humidity: 60 %

M/N: SWWHD-INTCAM

1000.000 3550.00

6100.00

8650.00

11200.00

Mode: TX_G_2412

Note:

Radiated Emission Measurement File:FCCP_ABOVE1G Data :#8 Date: 2016-11-25 Time: 9:31:36 80.0 dBuV/m 70 60 50 2 X 40 30 20 10 0.0

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.958	29.03	4.85	33.88	54.00	-20.12	AVG	
2		4824.153	38.33	4.85	43.18	74.00	-30.82	peak	

13750.00 16300.00 18850.00 21400.00

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

Page: 1

File :FCCP_ABOVE1G\Data :#8

Test engineer :

Vincent

26500.00 MHz

50062633 001



Produkte Products

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: **Vertical**Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2437

Note:

Radiated Emission Measurement File:FCCP_ABOVE1G Data:#9 Date: 2016-11-25 Time: 9:34:09 80.0 dBuV/m 70 60 50 X 40 30 20 10 0.0 8650.00 13750.00 16300.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 18850.00 21400.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.705	39.68	5.06	44.74	74.00	-29.26	peak	
2	*	4874.185	30.46	5.06	35.52	54.00	-18.48	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File:FCCP_ABOVE1G\Data:#9

Page: 1

Test engineer:

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Produkte Products

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Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: *Horizontal* Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

26500.00 MHz

Vincent

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

1000.000 3550.00

6100.00

8650.00

11200.00

Mode: TX_G_2437

Note:

Radiated Emission Measurement Data :#10 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:36:51 80.0 dBuV/m 70 60 50 ž 40 30 20 10 0.0

No.	٨	Иk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	48	373.920	31.75	5.06	36.81	54.00	-17.19	AVG	
2		48	374.185	42.05	5.06	47.11	74.00	-26.89	peak	

13750.00 16300.00

18850.00 21400.00

Test engineer :

*:Maximum data x:Over limit !:over margin (Reference Only

File :FCCP_ABOVE1G\Data :#10 Page: 1

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Produkte Products

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

3

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: **Vertical**Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2462

Note:

Radiated Emission Measurement Data :#11 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:39:49 80.0 dBuV/m 70 60 50 ž 40 30 20 10 0.0 8650.00 13750.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 16300.00 18850.00 21400.00

No.	М	lk. Freq		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.60	0 27.49	5.27	32.76	54.00	-21.24	AVG	
2		4924.18	5 36.03	5.27	41.30	74.00	-32.70	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File:FCCP_ABOVE1G\Data:#11

Page: 1

Test engineer:

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Produkte Products

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Neutron Engineering Inc.

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Reference Only

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak) Polarization: *Horizontal* Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

amera Distance: 3m

M/N: SWWHD-INTCAM

MHz

4923.882

4923.948

1

2 *

*:Maximum data

dBuV

39.16

29.00

dΒ

5.27

5.27

x:Over limit !:over margin

dBuV/m

44.43

34.27

Mode: TX_G_2462

Note:

Radiated Emission Measurement Data :#12 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:41:06 80.0 dBuV/m 70 60 50 X 40 30 20 10 11200.00 1000.000 3550.00 8650.00 16300.00 26500.00 MHz 6100.00 13750.00 18850.00 21400.00 Reading Correct Measure-Limit Margin No. Mk. Freq. Level Factor ment

dBuV/m

74.00

54.00

dΒ

-29.57

-19.73

Detector

peak

AVG

Comment

File: FCCP_ABOVE1G\Data:#12 Page: 1 Test engineer: Vincent

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Neutron Engineering Inc.

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Polarization: Vertical



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

LIIIIII. PCC RF_15.247_5W_(Feak)

nera Distance: 3m

EUT: Swann Wireless HD Smart Security Camera Dista M/N: SWWHD-INTCAM Mode

Note:

Mode: TX_N20_2412



File:FCCP_ABOVE1G	Data :#13	Date: 2016-11-25	Time: 9:43:37	
0.0 dBuV/m				
0				
0				
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D *				
2 X				
0				
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0				
.0				

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4	1823.542	35.85	4.85	40.70	74.00	-33.30	peak	
2	* 4	4824.255	28.13	4.85	32.98	54.00	-21.02	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File :FCCP_ABOVE1G\Data :#13

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Test engineer :

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Polarization: Horizontal



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

mart Security Camera Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

Radiated Emission Measurement Data :#14 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:45:13 80.0 dBuV/m 70 60 50 X 40 30 20 10 11200.00 13750.00 16300.00 18850.00 26500.00 MHz 1000.000 3550.00 8650.00 21400.00 6100.00

No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.943	39.24	4.85	44.09	74.00	-29.91	peak	
2	*	4823.975	30.07	4.85	34.92	54.00	-19.08	AVG	

*:Maximum data x:Over limit !:over margin (Reference Only

File: FCCP_ABOVE1G\Data:#14

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Test engineer:

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Neutron Engineering Inc.

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Polarization: Vertical

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Temperature: Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2437

Note:

Radiated Emission Measurement Data :#15 File:FCCP_ABOVE1G Date: 2016-11-25 Time: 9:48:42 80.0 dBuV/m 70 60 50 2 X 40 30 20 10 1000.000 3550.00 8650.00 11200.00 13750.00 16300.00 18850.00 26500.00 MHz 6100.00 21400.00 Reading Correct Measure-Limit Margin No. Mk. Freq. Level Factor ment

	MHZ	aBuv	ав	aBuv/m	aBuv/m	ав	Detector	Comment
1 *	4873.722	29.95	5.06	35.01	54.00	-18.99	AVG	
2	4874.363	37.97	5.06	43.03	74.00	-30.97	peak	

Reference Only *:Maximum data x:Over limit !:over margin

File: FCCP_ABOVE1G\Data:#15

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Test engineer :

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Mode: TX_N20_2437

3

Site: DG-CB03 Polarization: *I*Limit: FCC RF_15.247_3M_(Peak) Power: DC 5V

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

M/N: SWWHD-INTCAM

oto:

Note:

Polarization: *Horizontal* Temperature:

DC 5V Humidity: 60 %

Radiated Emission Measurement

0.0 dBuV/m	 	 	
0			
0			
0 1 ×			
0 2 X			
0			
0			
0			
.0			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.865	42.94	5.06	48.00	74.00	-26.00	peak	
2	*	4873.955	31.15	5.06	36.21	54.00	-17.79	AVG	

*:Maximum data x:Over limit !:over margin (Reference Only

File: FCCP_ABOVE1G\Data:#16 Page: 1 Test engineer: Vincent

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No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Polarization: Vertical

3

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V Distance: 3m Temperature: 25 (C) Humidity: 60 %

ELIT: Swann Wireless HD Smart So

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

Radiated Emission Measurement Data :#17 Date: 2016-11-25 File:FCCP_ABOVE1G Time: 9:54:07 80.0 dBuV/m 70 60 50 X X 40 30 20 10 0.0 8650.00 13750.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 16300.00 18850.00 21400.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.515	35.87	5.27	41.14	74.00	-32.86	peak	
2	*	4923.618	27.76	5.27	33.03	54.00	-20.97	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File:FCCP_ABOVE1G\Data:#17

Page: 1

Test engineer:

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Produkte Products

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: *Horizontal*Power: DC 5V
Distance: 3m

Temperature: 25 (C) Humidity: 60 %

Limit: FCC RF_15.247_3M_(Peak)

EUT: Swann Wireless HD Smart Security Camera

Mode: TV N20

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

Radiated Emission Measurement Data :#18 Date: 2016-11-25 File:FCCP_ABOVE1G Time: 9:56:13 80.0 dBuV/m 70 60 50 X 40 30 20 10 8650.00 13750.00 18850.00 21400.00 26500.00 MHz 1000.000 3550.00 6100.00 11200.00 16300.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4	4923.882	38.08	5.27	43.35	74.00	-30.65	peak	
2	* 4	4924.010	30.05	5.27	35.32	54.00	-18.68	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File:FCCP_ABOVE1G\Data:#18

Page: 1

Test engineer :

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Produkte Products

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Appendix B.5: Radiated Emission in Restrictd band



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No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Polarization: Vertical

3

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Humidity: 60 %

Temperature:

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2412

Note:

Radiated Emission Measurement File :FCCP_BANDEDGE Data :#1 Date: 2016-11-20 Time: 14:56:02 120.0 dBuV/m 110 100 90 80 70 60 50 2362.000 2372.00 2382.00 2392.00 2402.00 2412.00 2422.00 2432.00 2442.00 2462.00 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2386.000	28.37	33.00	61.37	74.00	-12.63	peak	
2		2386.000	18.10	33.00	51.10	54.00	-2.90	AVG	
3		2390.000	25.01	33.01	58.02	74.00	-15.98	peak	
4		2390.000	15.89	33.01	48.90	54.00	-5.10	AVG	
5	*	2410.850	69.76	33.09	102.85	54.00	48.85	AVG	No Limit
6	X	2411.200	72.95	33.10	106.05	74.00	32.05	peak	No Limit

*:Maximum data x:Over limit !:over margin (Reference Only

File: FCCP_BANDEDGE\Data:#1 Page: 1 Test engineer: Vincent

50062633 001



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Neutron Engineering Inc.

No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Mode: TX_B_2412



Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

EUT: Swann Wireless HD Smart Security Camera M/N: SWWHD-INTCAM

Note:

Polarization: Horizontal Temperature:

Humidity: 60 % Distance: 3m

Radiated Emission Measurement

File :FCCP_BANDEDGE	Data :#2	Date: 2016-11-20	Time: 14:01:31
20.0 dBuV/m			
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2 X	4,/		
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2386.250	27.33	33.00	60.33	74.00	-13.67	peak	
2		2386.250	19.06	33.00	52.06	54.00	-1.94	AVG	
3		2390.000	25.65	33.01	58.66	74.00	-15.34	peak	
4		2390.000	16.60	33.01	49.61	54.00	-4.39	AVG	
5	*	2410.950	70.03	33.10	103.13	54.00	49.13	AVG	No Limit
6	X	2411.150	73.12	33.10	106.22	74.00	32.22	peak	No Limit

*:Maximum data Reference Only x:Over limit !:over margin

Page: 1

Test engineer :

Vincent

File: FCCP_BANDEDGE\Data:#2

50062633 001



Humidity:

60 %

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Neutron Engineering Inc.

No.3.JinShaGang 1st Road, ShiXia, DaLang Town, DongGuan, China. Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

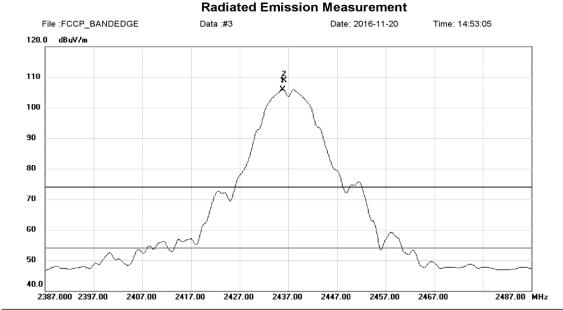
EUT: Swann Wireless HD Smart Security Camera M/N: SWWHD-INTCAM

Note:

Polarization: Vertical Temperature:

Power: DC 5V Distance: 3m

Mode: TX_B_2437



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.900	72.78	33.20	105.98	54.00	51.98	AVG	No Limit
2	Χ	2436.150	75.78	33.21	108.99	74.00	34.99	peak	No Limit

*:Maximum data Reference Only x:Over limit !:over margin

File: FCCP_BANDEDGE\Data:#3

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Test engineer :

50062633 001



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Neutron Engineering Inc.

No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak) Polarization: *Horizontal* Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2437

Note:

Radiated Emission Measurement Data :#4 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:03:55 120.0 dBuV/m 110 100 90 80 70 60 50 40.0 2487.00 MHz 2387.000 2397.00 2407.00 2417.00 2427.00 2437.00 2447.00 2457.00 2467.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.800	72.75	33.20	105.95	54.00	51.95	AVG	No Limit
2	Χ	2436.200	75.81	33.21	109.02	74.00	35.02	peak	No Limit

*:Maximum data x:Over limit !:over margin (Reference Only

File: FCCP_BANDEDGE\Data:#4

Page: 1

Test engineer:

50062633 001



Temperature:

Humidity: 60 %

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No.3.JinShaGang 1st Road,ShiXia,DaLang Town,DongGuan,China.
Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

EUT: Swann Wireless HD Smart Security Camera

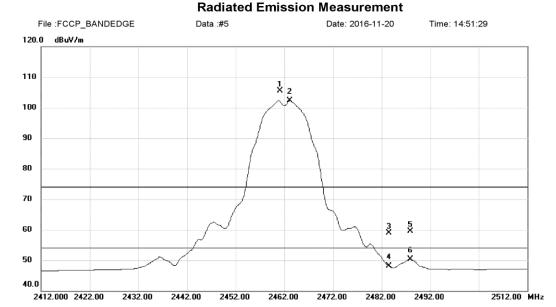
M/N: SWWHD-INTCAM

Note:

Polarization: Vertical

Power: DC 5V

Distance: 3m Mode: TX_B_2462



No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	(2	2461.150	72.24	33.31	105.55	74.00	31.55	peak	No Limit
2 *	2	2463.200	69.08	33.31	102.39	54.00	48.39	AVG	No Limit
3	2	2483.500	25.57	33.40	58.97	74.00	-15.03	peak	
4	2	2483.500	14.74	33.40	48.14	54.00	-5.86	AVG	
5	2	2487.900	26.00	33.42	59.42	74.00	-14.58	peak	
6	2	2487.900	16.88	33.42	50.30	54.00	-3.70	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

Page: 1

Test engineer :

Vincent

File :FCCP_BANDEDGE\Data :#5

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

3

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak) Polarization: *Horizontal*Power: DC 5V

Temperature: 25 (C)
Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_B_2462

Note:

Radiated Emission Measurement Data :#6 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:05:59 120.0 dBuV/m 110 1 X 2 100 90 80 70 3 5 X X 60 50 40.0 2412.000 2422.00 2462.00 2512.00 MHz 2432.00 2442.00 2452.00 2472.00 2482.00 2492.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2461.150	73.57	33.31	106.88	74.00	32.88	peak	No Limit
2	*	2463.050	70.52	33.31	103.83	54.00	49.83	AVG	No Limit
3		2483.500	25.91	33.40	59.31	74.00	-14.69	peak	
4		2483.500	15.13	33.40	48.53	54.00	-5.47	AVG	
5		2487.750	25.67	33.42	59.09	74.00	-14.91	peak	
6		2487.750	18.32	33.42	51.74	54.00	-2.26	AVG	

*:Maximum data x:Over limit !:over margin (Reference Only

File: FCCP_BANDEDGE\Data:#6

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2362.000 2372.00

2382.00

2392.00

2402.00

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2462.00 MHz

Vincent

Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

EUT: Swann Wireless HD Smart Security Camera Distance: 3m M/N: SWWHD-INTCAM

Note:

Polarization: Vertical Temperature: Humidity: 60 %

Mode: TX_G_2412

	Radiated Emi	nission Measurement						
File :FCCP_BANDEDGE	Data :#7	Date: 2016-11-20	Time: 14:49:53					
120.0 dBuV/m								
110								
100	3	ž						
90								
80								
70	1 ×							
60								
50	2							
40.0								

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	31.46	33.01	64.47	74.00	-9.53	peak	
2		2390.000	16.64	33.01	49.65	54.00	-4.35	AVG	
3	*	2411.000	61.11	33.10	94.21	54.00	40.21	AVG	No Limit
4	Χ	2412.200	71.04	33.10	104.14	74.00	30.14	peak	No Limit

2412.00

2422.00

2432.00

2442.00

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_BANDEDGE\Data:#7 Page: 1 Test engineer :

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak) Polarization: *Horizontal* Power: DC 5V

Temperature: 25 (C) Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2412

Note:

Radiated Emission Measurement Data :#8 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:10:50 120.0 dBuV/m 110 4 X 100 90 80 70 X X 60 50 40.0 2392.00 2442.00 2462.00 MHz 2362.000 2372.00 2382.00 2402.00 2412.00 2422.00 2432.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	35.03	33.01	68.04	74.00	-5.96	peak	
2		2390.000	18.71	33.01	51.72	54.00	-2.28	AVG	
3	*	2411.000	62.22	33.10	95.32	54.00	41.32	AVG	No Limit
4	Χ	2414.400	71.48	33.12	104.60	74.00	30.60	peak	No Limit

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File: FCCP_BANDEDGE\Data:#8

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

3

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak) Polarization: **Vertical**Power: DC 5V

Temperature: 25
Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera

Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_G_2437

Note:

Radiated Emission Measurement Data :#9 File :FCCP_BANDEDGE Date: 2016-11-20 Time: 14:47:53 120.0 dBuV/m X 110 100 90 80 70 60 50 40.0 2467.00 2487.00 MHz 2387.000 2397.00 2407.00 2417.00 2427.00 2437.00 2447.00 2457.00

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2435.700	76.21	33.20	109.41	74.00	35.41	peak	No Limit
2	*	2438.050	66.87	33.21	100.08	54.00	46.08	AVG	No Limit

*:Maximum data x:Over limit !:over margin (Reference Only

File: FCCP_BANDEDGE\Data:#9

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Test engineer:

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Temperature:

Humidity: 60 %

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Polarization: Horizontal



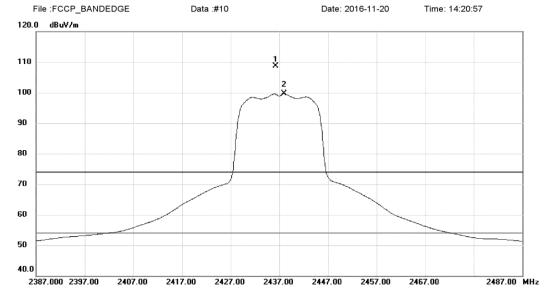
Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

5.247_3M_(Peak) Power: DC 5V

EUT: Swann Wireless HD Smart Security Camera Distance: 3m M/N: SWWHD-INTCAM Mode: TX_G_2437

Note:

Radiated Emission Measurement



No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2436.250	75.54	33.21	108.75	74.00	34.75	peak	No Limit
2	*	2437.950	66.42	33.21	99.63	54.00	45.63	AVG	No Limit

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File :FCCP_BANDEDGE\Data :#10

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Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

EUT: Swann Wireless HD Smart Security Camera M/N: SWWHD-INTCAM

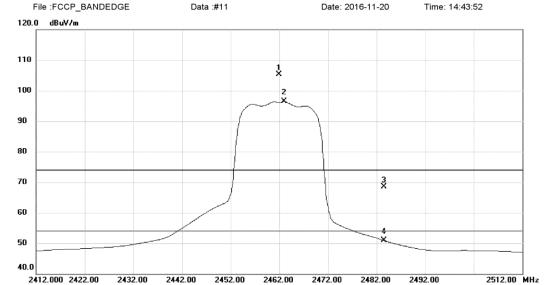
Note:

Temperature: Polarization: Vertical

Humidity: 60 % Power: DC 5V Distance: 3m

Mode: TX_G_2462

Radiated	Emission Measurement	
Data :#11	Date: 2016-11-20	Time:



No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	2461.950	71.92	33.31	105.23	74.00	31.23	peak	No Limit
2 *	2463.050	63.20	33.31	96.51	54.00	42.51	AVG	No Limit
3	2483.500	35.09	33.40	68.49	74.00	-5.51	peak	
4	2483.500	17.49	33.40	50.89	54.00	-3.11	AVG	

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_BANDEDGE\Data:#11

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Test engineer :

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Temperature:

Humidity: 60 %

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Polarization: Horizontal



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

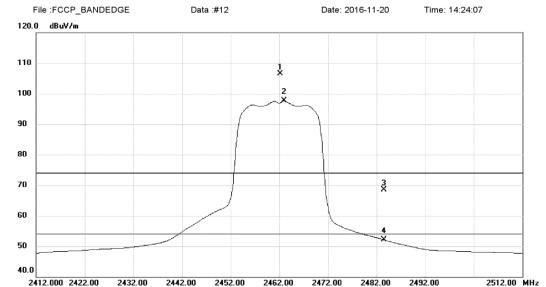
t: FCC RF_15.247_3M_(Peak) Power: DC 5V

Swann Wireless HD Smart Security Camera Distance: 3m

EUT: Swann Wireless HD Smart Security Camera Distance: 3m M/N: SWWHD-INTCAM Mode: TX_G_2462

Note:

Radiated Emission Measurement



No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	2	2462.150	73.21	33.31	106.52	74.00	32.52	peak	No Limit
2 *	2	2462.950	64.31	33.31	97.62	54.00	43.62	AVG	No Limit
3	2	2483.500	35.01	33.40	68.41	74.00	-5.59	peak	
4	2	2483.500	18.73	33.40	52.13	54.00	-1.87	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File :FCCP_BANDEDGE\Data :#12

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Test engineer:

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Temperature:

60 %

Vincent

Humidity:

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Polarization: Vertical



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

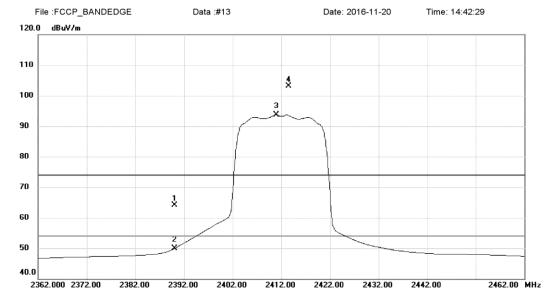
.247_3M_(Peak) Power: DC 5V

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

M/N: SWWHD-INTCAM Mode: TX_N20_2412

Note:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	31.13	33.01	64.14	74.00	-9.86	peak	
2		2390.000	16.93	33.01	49.94	54.00	-4.06	AVG	
3	*	2411.000	60.69	33.10	93.79	54.00	39.79	AVG	No Limit
4	Χ	2413.600	69.93	33.11	103.04	74.00	29.04	peak	No Limit

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File: FCCP_BANDEDGE\Data:#13 Page: 1 Test engineer:

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Polarization: Horizontal



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V

Temperature: Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2412

Note:

Radiated Emission Measurement Data :#14 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:27:29 120.0 dBuV/m 110 **4** 100 90 80 70 X 60 50 2362.000 2372.00 2392.00 2442.00 2462.00 MHz 2382.00 2402.00 2412.00 2422.00 2432.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	30.51	33.01	63.52	74.00	-10.48	peak	
2		2390.000	18.71	33.01	51.72	54.00	-2.28	AVG	
3	*	2411.000	62.29	33.10	95.39	54.00	41.39	AVG	No Limit
4	Χ	2413.700	71.41	33.11	104.52	74.00	30.52	peak	No Limit

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_BANDEDGE\Data:#14

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Test engineer :

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Humidity:

60 %

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Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

RF_15.247_3M_(Peak) Power

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

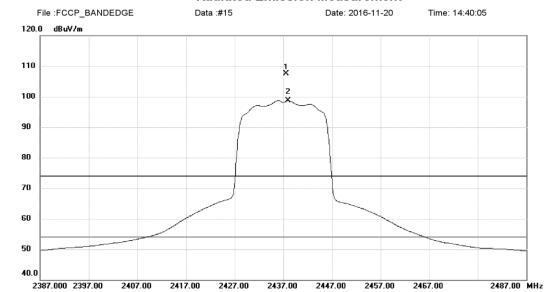
Polarization: Vertical Temperature:

Power: DC 5V

Distance: 3m

Mode: TX_N20_2437





No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2437.600	74.33	33.21	107.54	74.00	33.54	peak	No Limit
2	*	2437.950	65.56	33.21	98.77	54.00	44.77	AVG	No Limit

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File :FCCP_BANDEDGE\Data :#15

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Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Polarization: Horizontal Power: DC 5V

Temperature: Humidity: 60 %

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2437

Note:

Radiated Emission Measurement Data :#16 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:30:05 120.0 dBuV/m 110 100 90 80 70 60 50 40.0 2467.00 2487.00 MHz 2387.000 2397.00 2407.00 2417.00 2427.00 2437.00 2447.00 2457.00

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2437.150	74.58	33.21	107.79	74.00	33.79	peak	No Limit
2	*	2438.000	65.88	33.21	99.09	54.00	45.09	AVG	No Limit

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_BANDEDGE\Data:#16

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Test engineer :

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Temperature:

60 %

Humidity:

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Tel: (0769)-8318-3000 Fax: (0769)-8319-6000 Post Code: 523792

Polarization: Vertical

3

Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

F_15.247_3M_(Peak) Power: DC 5V

EUT: Swann Wireless HD Smart Security Camera Distance: 3m

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

Radiated Emission Measurement Data :#17 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:37:22 120.0 dBuV/m 110 2 X 100 90 80 70 60 50 2412.000 2422.00 2462.00 2492.00 2512.00 MHz 2432.00 2442.00 2452.00 2472.00 2482.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2462.950	61.84	33.31	95.15	54.00	41.15	AVG	No Limit
2	Χ	2463.150	70.00	33.31	103.31	74.00	29.31	peak	No Limit
3		2483.500	34.12	33.40	67.52	74.00	-6.48	peak	
4		2483.500	16.24	33.40	49.64	54.00	-4.36	AVG	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File: FCCP_BANDEDGE\Data:#17

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Test engineer:

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Polarization: Horizontal



Site: DG-CB03 Limit: FCC RF_15.247_3M_(Peak)

Power: DC 5V Distance: 3m

Humidity: 60 %

Temperature:

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Mode: TX_N20_2462

Note:

Radiated Emission Measurement Data :#18 Date: 2016-11-20 File :FCCP_BANDEDGE Time: 14:33:42 120.0 dBuV/m 110 ž 100 90 80 70 60 50 2412.000 2422.00 2462.00 2492.00 2512.00 MHz 2432.00 2442.00 2452.00 2472.00 2482.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2462.950	62.86	33.31	96.17	54.00	42.17	AVG	No Limit
2	Χ	2463.150	71.88	33.31	105.19	74.00	31.19	peak	No Limit
3		2483.500	37.69	33.40	71.09	74.00	-2.91	peak	
4		2483.500	16.77	33.40	50.17	54.00	-3.83	AVG	

*:Maximum data x:Over limit !:over margin Reference Only

File: FCCP_BANDEDGE\Data:#18

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Appendix A.16: Test Results of Radiated Emissions

Battery charging only



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3

Temperature:

Humidity: 60 %

Site: DG-CB02

Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: Horizontal

Power: AC 120V/60Hz

Distance: 3m

Mode: FULL SYSTEM(Charge)

Radiated Emission Measurement File:SW1-RAD-FCC-L Date: 2016-12-14 Time: 14:02:05 80.0 dBuV/m 70 60 FCC Class B 3m Radiation Margin -6 dB 50 40 30 20 10 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		68.3150	39.49	-14.72	24.77	40.00	-15.23	QP	
2		88.2000	40.23	-16.34	23.89	43.50	-19.61	QP	
3	*	271.5300	44.12	-12.00	32.12	46.00	-13.88	QP	
4		354.9500	38.62	-10.41	28.21	46.00	-17.79	QP	
5		531.9750	34.85	-5.61	29.24	46.00	-16.76	QP	
6		754.1050	31.73	-0.75	30.98	46.00	-15.02	QP	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File: SW1-RAD-FCC-L\Data:#1 Page: 1 Test engineer: Joyce

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Limit: FCC Class B 3m Radiation

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Note:

Polarization: Vertical Power: AC 120V/60Hz

Temperature:

Humidity: 60 %

Distance: 3m

Mode: FULL SYSTEM(Charge)

Radiated	d Emission	Measurement
----------	------------	-------------

File :SW1-RAD-FCC-L				Data :#2 Date: 2016-12-14 Time:					Time: 14:04:	23	
80.0	dBuV/m										٦
70											
60								FCC Cla	ss B 3m Radia	tion	
50										n -6 dB	
40	1.2.3		6								
30			A A A A A A A A A A A A A A A A A A A	alh.	L	A CONTRACTOR OF STREET	d Whitermanidae	wherefreedom	orwalisandallar danionalia	Marie Marie and American Street	4
20	~/ \ <u>" \ \ II</u> \	անակարդերի	Ahabah)arka	L. Balloray Philadelphyory	rt Braylotter		Journal				
10	<u> </u>										
).O										1000.00	_
30.	000 127.	.00 224.	00 321.	.00 418.	.00 515.	00 612.	.00 709.	00 806	.00	1000.00	МН

1 54. 2 * 68. 3 ! 87. 4 145.	Freq.	_	_evel	Factor	ment	Limit	Margin		
2 * 68. 3 ! 87. 4 145.	MHz	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 ! 87.	54.2500	.2500 4	15.86	-12.25	33.61	40.00	-6.39	QP	
4 145.	68.3150	3.3150 4	19.72	-14.72	35.00	40.00	-5.00	QP	
	87.7150	7.7150 5	51.19	-16.32	34.87	40.00	-5.13	QP	
5 189.	45.4300	5.4300 4	13.96	-11.90	32.06	43.50	-11.44	QP	
	89.5650	9.5650 4	15.92	-13.15	32.77	43.50	-10.73	QP	
6 272.	72.9850	2.9850 4	17.10	-11.96	35.14	46.00	-10.86	QP	

*:Maximum data x:Over limit Reference Only !:over margin

File:SW1-RAD-FCC-L\Data:#2 Page: 1 Test engineer : Joyce

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Polarization: Vertical



Limit: FCC above 1G ClassB 3m Radiation(peak)

Temperature:

EUT: Swann Wireless HD Smart Security Camera

Power: AC 120V/60Hz

Humidity: 60 %

Distance: 3M

M/N: SWWHD-INTCAM

Mode: FULL SYSTEM(Charge)

Note:

			Raula	leu E	11115	SIOII IVI	easuren	lent		
Fi	le :SW1-RAD-FCC-H		Data :#1			[Date: 2016-12	2-14	Time: 14:29:	:59
30.0	dBuV/m									
						F	CC above 1G	ClassB 3m R	adiation(peak)
70										
io							FCC above 16	G ClassB 3m	Radiation(AV6	i)
io		erson phonon phonon			5		ada an a disababa sa	9 Marinara Marinara	econ/hippedeaper/conficerde	11 Marchael March
0	the second	What is also	hillyware the grand for the second for	Marin Jan	J. Harrison C.	B Wingers	AND A HAR IN	10 X	1	12 X
0	2 X	- 4 (44 to / 15 to 40 to		4 X	×	×				
0										
0										
.0										

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2470.000	39.99	0.01	40.00	74.00	-34.00	peak	
2		2470.000	28.67	0.01	28.68	54.00	-25.32	AVG	
3		6268.000	31.57	9.11	40.68	74.00	-33.32	peak	
4		6268.000	19.63	9.11	28.74	54.00	-25.26	AVG	
5		6988.000	33.05	11.38	44.43	74.00	-29.57	peak	
6	-	6988.000	20.60	11.38	31.98	54.00	-22.02	AVG	
7		7702.000	33.04	12.59	45.63	74.00	-28.37	peak	
8		7702.000	19.88	12.59	32.47	54.00	-21.53	AVG	
9		10336.00	32.47	16.31	48.78	74.00	-25.22	peak	
10		10336.00	20.67	16.31	36.98	54.00	-17.02	AVG	
11		11836.00	32.86	17.64	50.50	74.00	-23.50	peak	
12	*	11836.00	21.69	17.64	39.33	54.00	-14.67	AVG	

*:Maximum data Reference Only x:Over limit !:over margin

File:SW1-RAD-FCC-H\Data:#1 Page: 1 Test engineer :

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Site: DG-CB02

Limit: FCC above 1G ClassB 3m Radiation(peak)

EUT: Swann Wireless HD Smart Security Camera

M/N: SWWHD-INTCAM

Polarization: Horizontal

Power: AC 120V/60Hz

Humidity: 60 %

Temperature:

Distance: 3M

Mode: FULL SYSTEM(Charge)

Note:

Radiated Emission Measurement File:SW1-RAD-FCC-H Data:#2 Date: 2016-12-14 Time: 14:31:45 80.0 dBuV/m FCC above 1G ClassB 3m Radiation(peak) 70 60 FCC above 1G ClassB 3m Radiation(AVG) 50 12 X 8 8 Markethark 30 20 10 1000.000 2200.00 8200.00 13000.00 MHz 3400.00 4600.00 5800.00 7000.00 9400.00 10600.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	:	2884.000	36.26	1.88	38.14	74.00	-35.86	peak	
2		2884.000	25.44	1.88	27.32	54.00	-26.68	AVG	
3	,	5896.000	31.66	8.37	40.03	74.00	-33.97	peak	
4		5896.000	19.46	8.37	27.83	54.00	-26.17	AVG	
5		7012.000	33.11	11.45	44.56	74.00	-29.44	peak	
6		7012.000	22.13	11.45	33.58	54.00	-20.42	AVG	
7		8596.000	32.46	13.61	46.07	74.00	-27.93	peak	
8		8596.000	20.68	13.61	34.29	54.00	-19.71	AVG	
9		11248.00	31.72	17.54	49.26	74.00	-24.74	peak	
10		11248.00	19.68	17.54	37.22	54.00	-16.78	AVG	
11		12802.00	33.68	18.53	52.21	74.00	-21.79	peak	
12	*	12802.00	21.63	18.53	40.16	54.00	-13.84	AVG	

*:Maximum data Reference Only x:Over limit !:over margin

File:SW1-RAD-FCC-H\Data:#2 Test engineer: Page: 1

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Appendix A.17: Test Results of Conducted Emissions

Wi-Fi operation with Battery charging



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Site: DG-C02

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

L1

Temperature: 25 (C) Humidity: 53 %

EUT: Swann Wireless HD Smart Security Camera

Distance:

Phase:

M/N: SWWHD-INTCAM

Mode: TX

Note:

Conducted Emission Measurement File:FCCP_COND_1 Date: 2016-11-21 Time: 9:29:55 80.0 dBuV 70 60 50 40 30 20 10 0.0 0.150 0.5 (MHz) 5 30.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	40.81	9.52	50.33	65.57	-15.24	peak	
2		0.1700	40.21	9.52	49.73	64.96	-15.23	peak	
3	*	0.2980	48.63	9.53	58.16	60.30	-2.14	peak	
4		0.2980	18.13	9.53	27.66	50.30	-22.64	AVG	
5		2.1380	32.62	9.95	42.57	56.00	-13.43	peak	
6		2.6100	31.41	10.09	41.50	56.00	-14.50	peak	
7		19.6420	29.37	10.40	39.77	60.00	-20.23	peak	

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

File: FCCP_COND_1\Data:#1 Page: 1 Test engineer: Chay

TÜVRheinland®

Temperature:

Chay

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 $No. 3. Jin Sha Gang\ 1st\ Road, Shi Xia, Da Lang\ Town, Dong Guan, China.$ Tel: (0769)-8318-3000 Fax:(0769)-8319-6000 Post Code: 523792 www.newbtl.com



Limit: FCC Class B Conduction(QP)

Phase: Ν Power: AC 120V/60Hz Humidity: 53 %

EUT: Swann Wireless HD Smart Security Camera

Distance: Mode: TX

M/N: SWWHD-INTCAM

Note:

Conducted Emission Measurement Data :#2 Date: 2016-11-21 File :FCCP_COND_1 Time: 9:33:29 80.0 dBuV 70 60 50 20 10 0.0 0.5 (MHz) 30.000 0.150

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	42.72	9.52	52.24	66.00	-13.76	peak	
2		0.1620	40.98	9.46	50.44	65.36	-14.92	peak	
3		0.4260	29.15	9.44	38.59	57.33	-18.74	peak	
4		2.1260	31.01	9.72	40.73	56.00	-15.27	peak	
5		13.1740	32.46	10.34	42.80	60.00	-17.20	peak	
6		18.9780	29.19	10.47	39.66	60.00	-20.34	peak	

*:Maximum data x:Over limit (Reference Only !:over margin

File: FCCP_COND_1\Data:#2 Test engineer : Page: 1

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Appendix B

Test Results of RF Exposure

APPENDIX B.1: RF EXPOSURE COMPLIANCE	2
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Appendix B

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Appendix B.1: RF Exposure Compliance

Radio Frequency Exposure Compliance

RESULT: Pass

Test standard : FCC 1.1310

FCC KDB publication 447498 D01 v06

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm. Therefore MPE measurement or computational modeling should be used to determine compliance.

MPE Calculation

According to the formula

$$Pd = \frac{Pout * G}{4R^2\pi}$$

Where

Pd = power density in mW/cm² or W/m2

Pout = output power to antenna in mW or W

G = Antenna gain in numeric

 $\pi = 3.14159$

R = Distance between observation point and the center of radiator in cm or m

In here

Pout = 22.94dBm = 196.79mW

G = 3dBi = 2.0 (numeric)

R = 20cm

For Wi-Fi operation:

$$Pd = \frac{Pout * G}{4R^2\pi} = \frac{196.79 * 2.0}{4 * 20^2 * 3.14159} = 0.0783 mW/cm^2 < 1 mW/cm^2 \text{ for FCC limit}$$

The summed maximum permissible exposure (MPE) level is 0.0783mW/cm². It is less than MPE limit 1mW/cm² for FCC, therefore the device compliance with MPE limit.