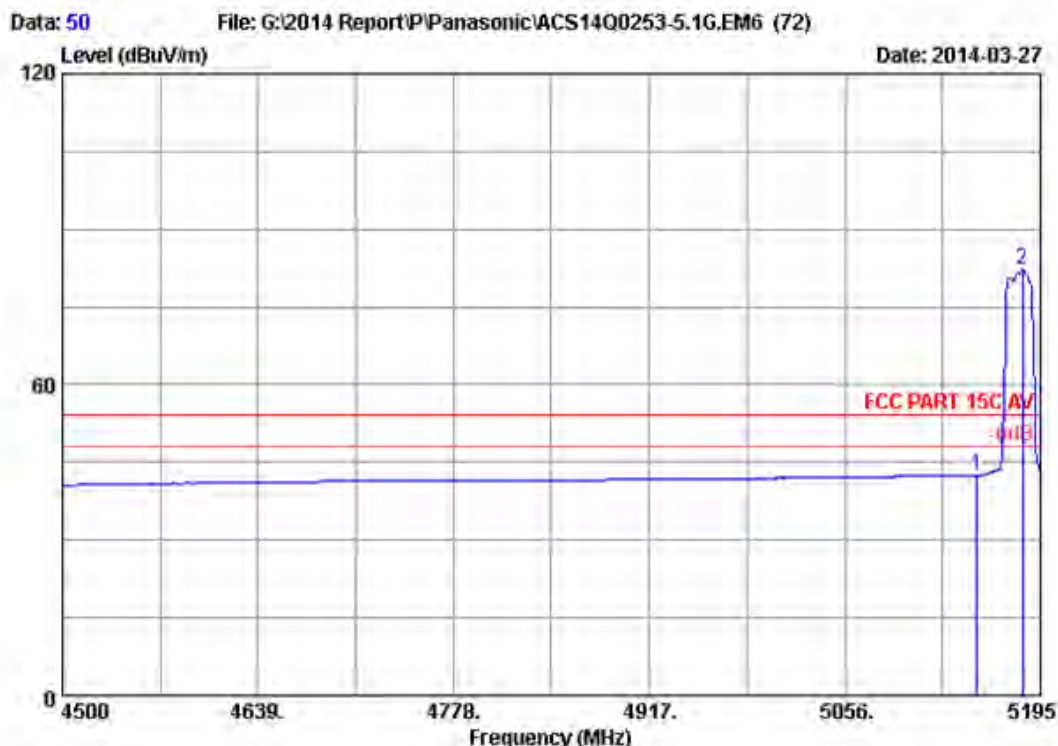
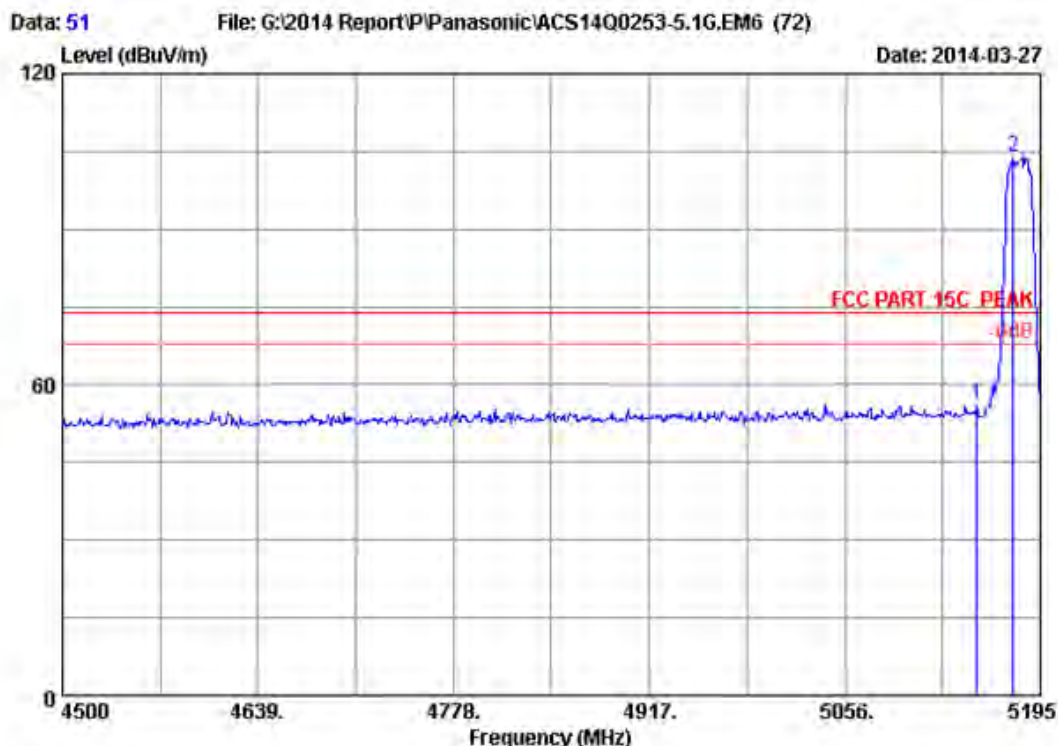




Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5180MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	35.87	42.53	54.00	11.47	Average
2	5182.490	33.49	8.96	35.70	75.37	82.12	54.00	-28.12	Average

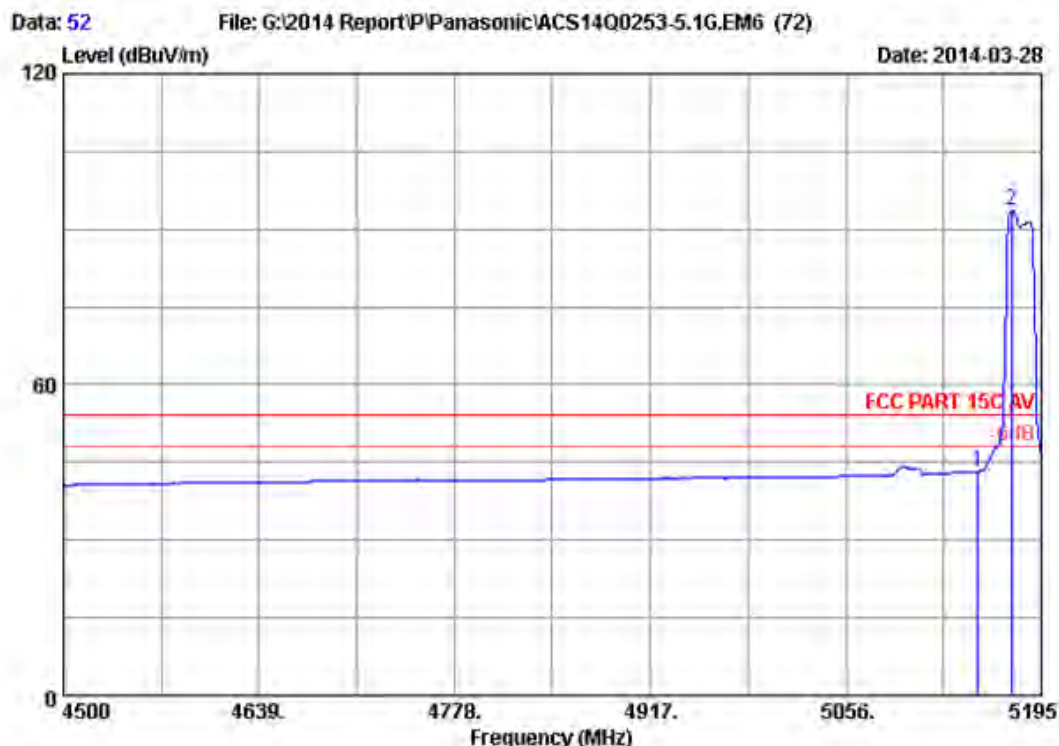
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5180MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	49.34	56.00	74.00	18.00	Peak
2	5175.540	33.48	8.95	35.70	97.27	104.00	74.00	-30.00	Peak

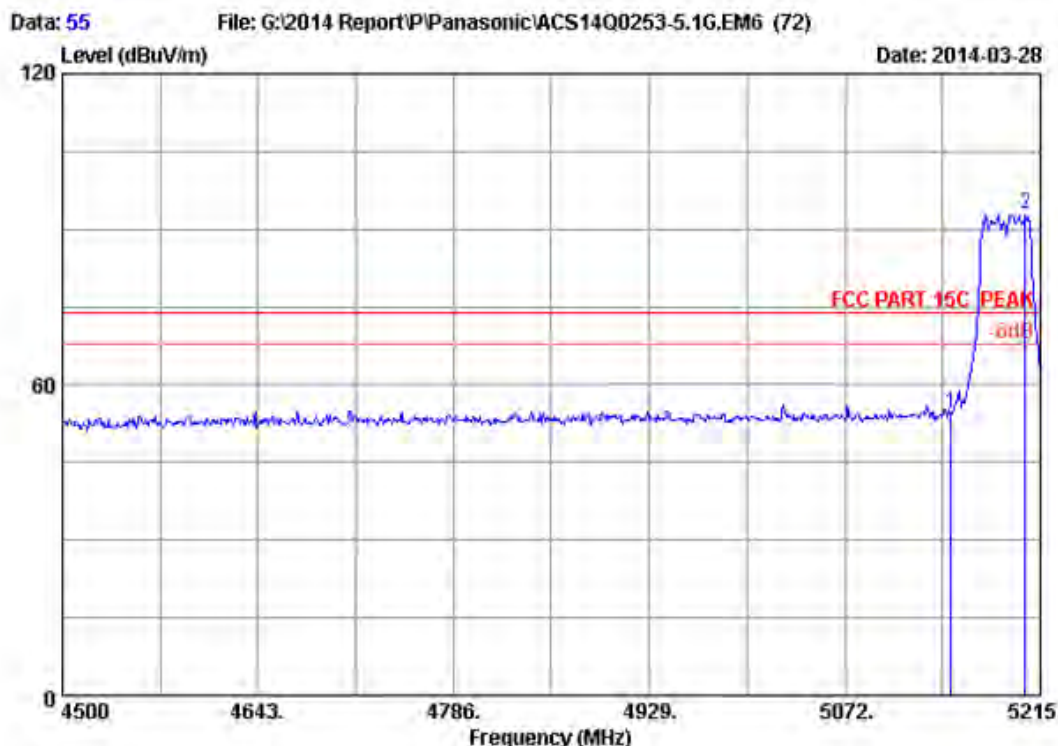
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5180MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	36.52	43.18	54.00	10.82	Average
2	5174.150	33.48	8.95	35.70	86.86	93.59	54.00	-39.59	Average

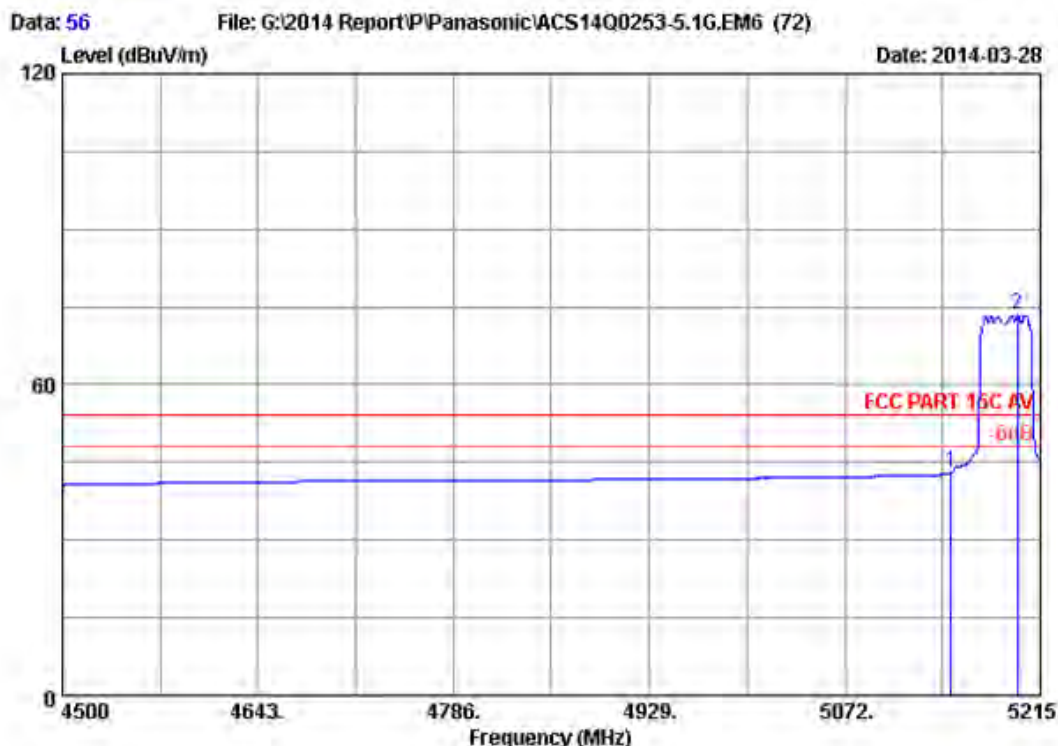
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5190MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	47.67	54.33	74.00	19.67	Peak
2	5204.275	33.53	8.98	35.70	86.23	93.04	74.00	-19.04	Peak

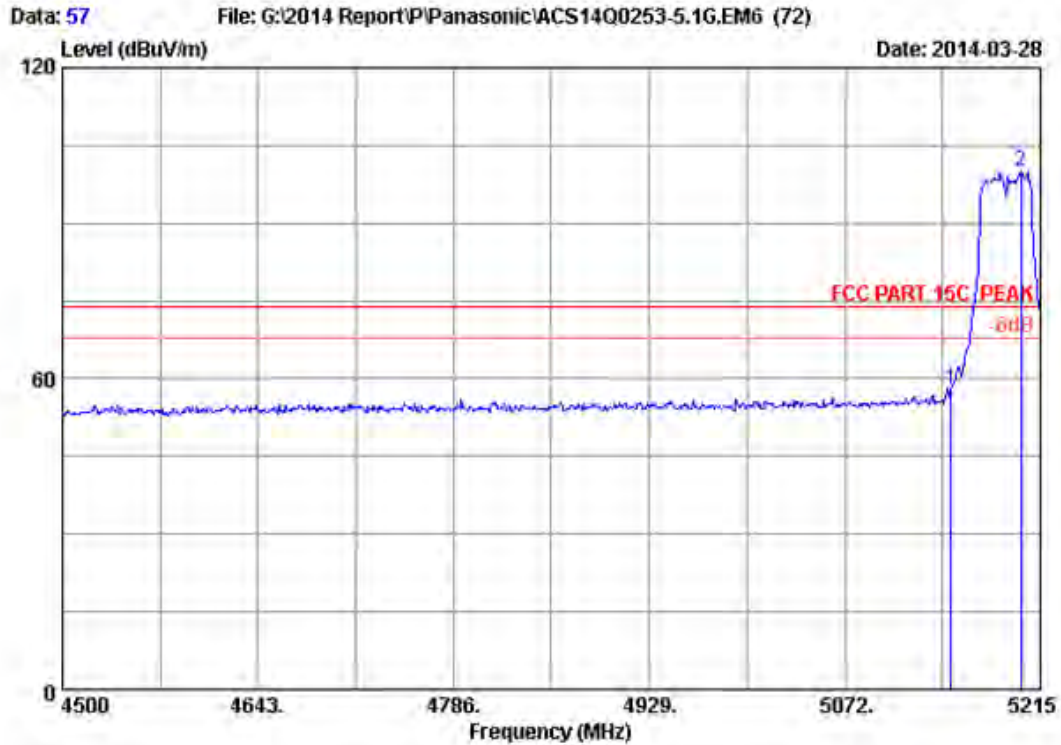
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5190MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	36.52	43.18	54.00	10.82	Average
2	5198.555	33.52	8.97	35.70	66.61	73.40	54.00	-19.40	Average

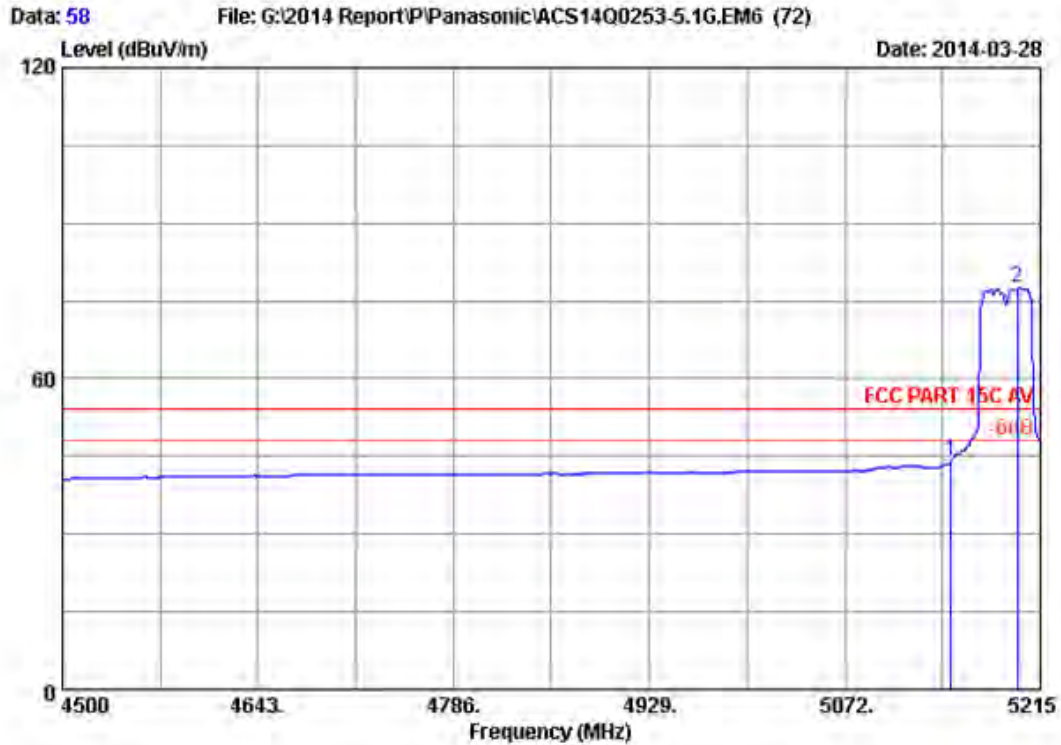
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5190MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	51.29	57.95	74.00	16.05	Peak
2	5200.700	33.52	8.98	35.70	93.14	99.94	74.00	-25.94	Peak

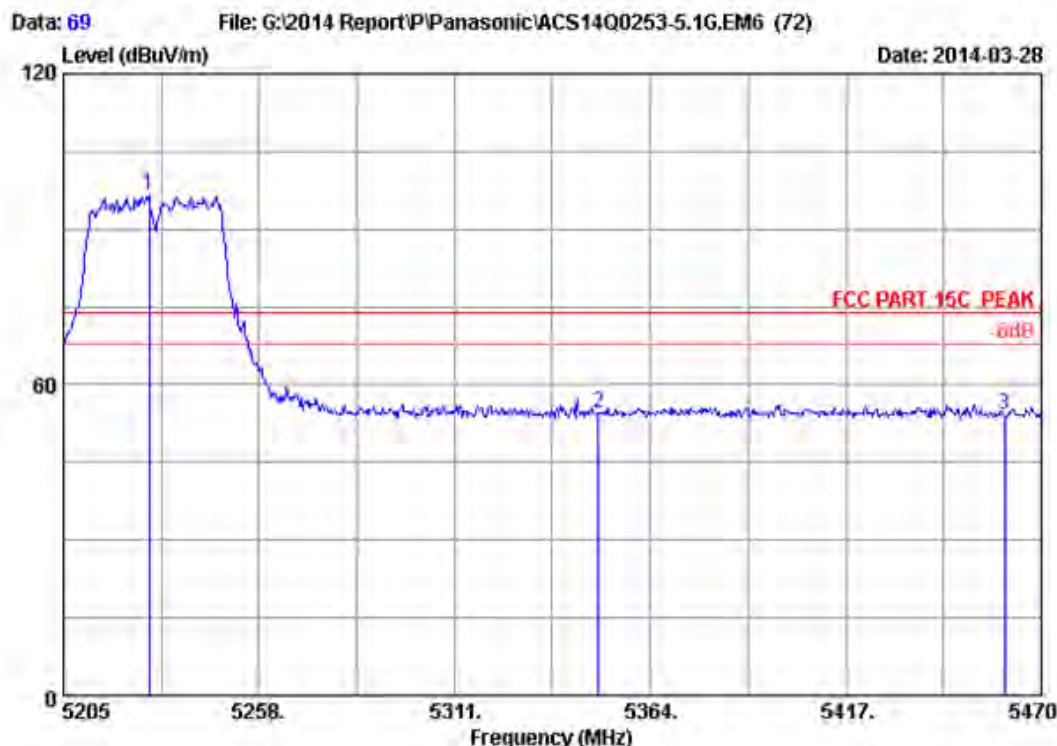
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5190MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	37.47	44.13	54.00	9.87	Average
2	5198.555	33.52	8.97	35.70	70.89	77.68	54.00	-23.68	Average

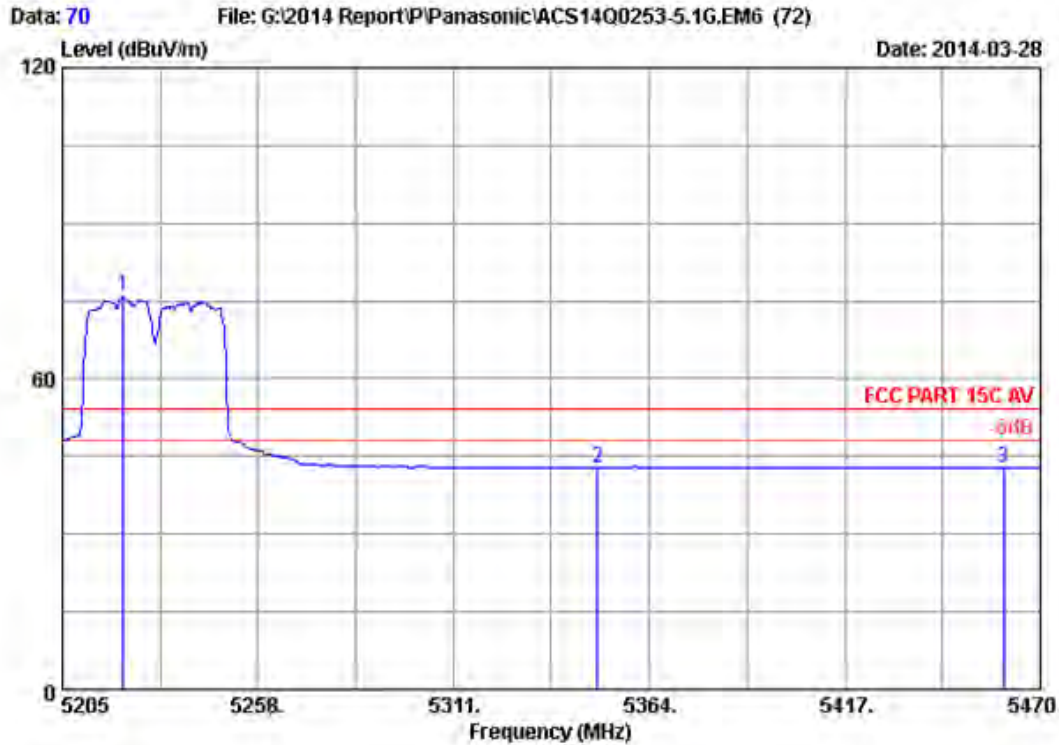
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5230MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5228.320	33.57	9.00	35.70	89.88	96.75	74.00	-22.75	Peak
2	5350.000	33.76	9.13	35.70	47.20	54.39	74.00	19.61	Peak
3	5460.000	33.94	9.25	35.70	46.62	54.11	74.00	19.89	Peak

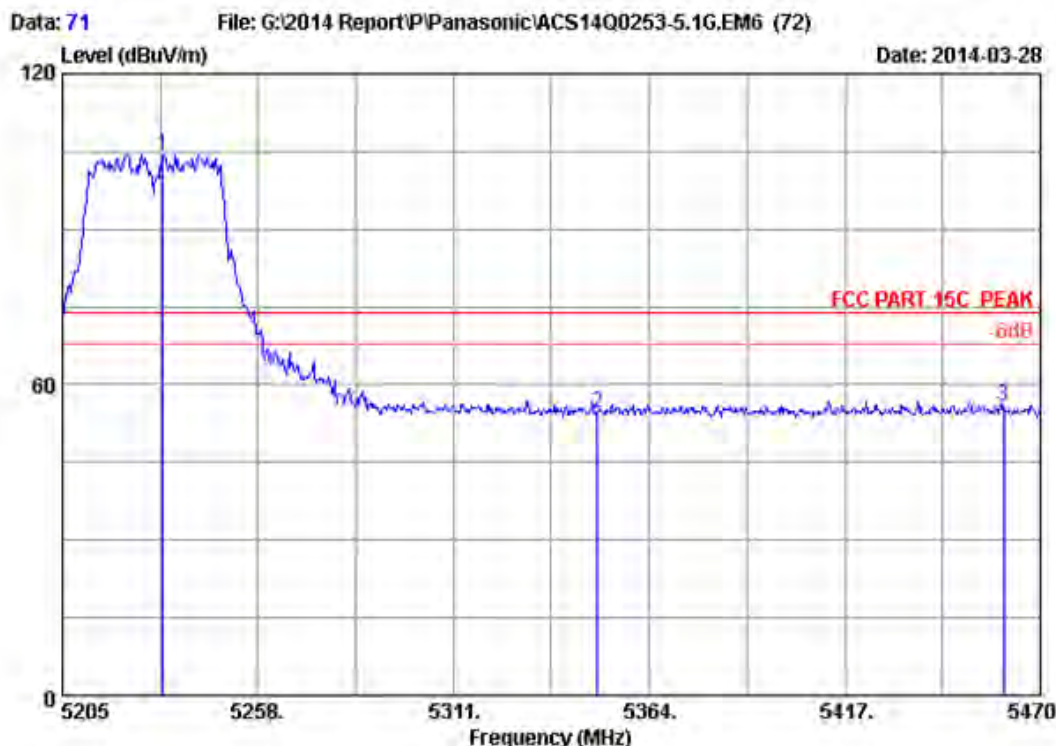
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5230MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5221.430	33.55	9.00	35.70	68.89	75.74	54.00	-21.74	Average
2	5350.000	33.76	9.13	35.70	35.61	42.80	54.00	11.20	Average
3	5460.000	33.94	9.25	35.70	35.32	42.81	54.00	11.19	Average

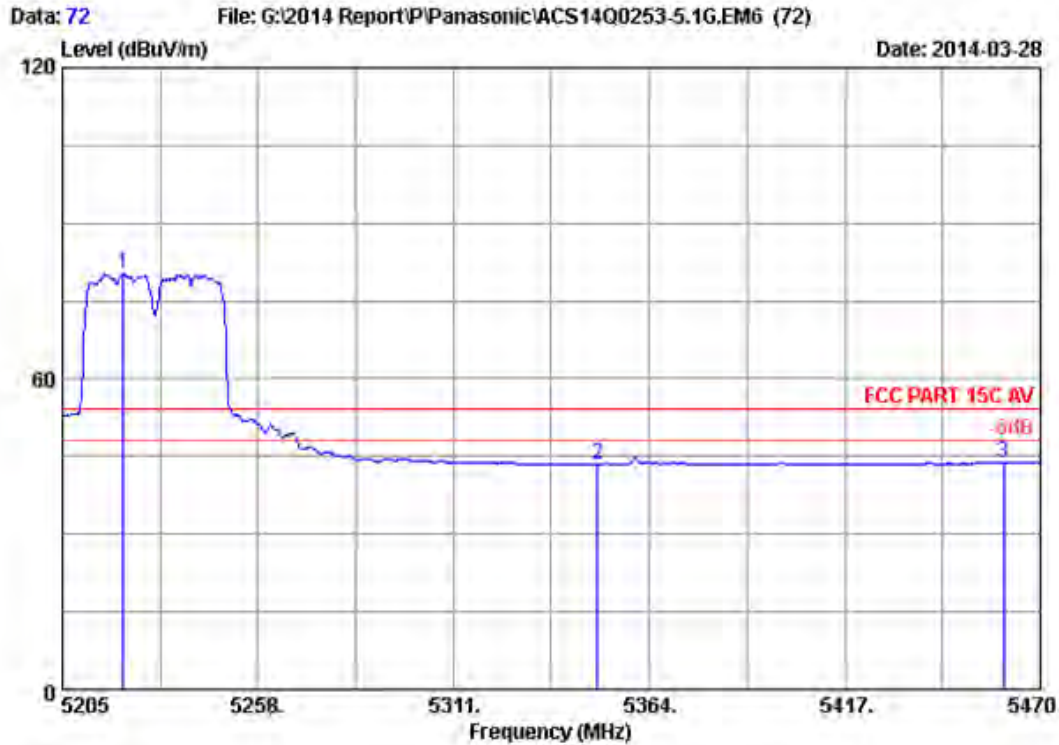
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5230MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5233.295	33.57	9.01	35.70	97.55	104.43	74.00	-30.43	Peak
2	5350.000	33.76	9.13	35.70	47.21	54.40	74.00	19.60	Peak
3	5460.000	33.94	9.25	35.70	48.24	55.73	74.00	18.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

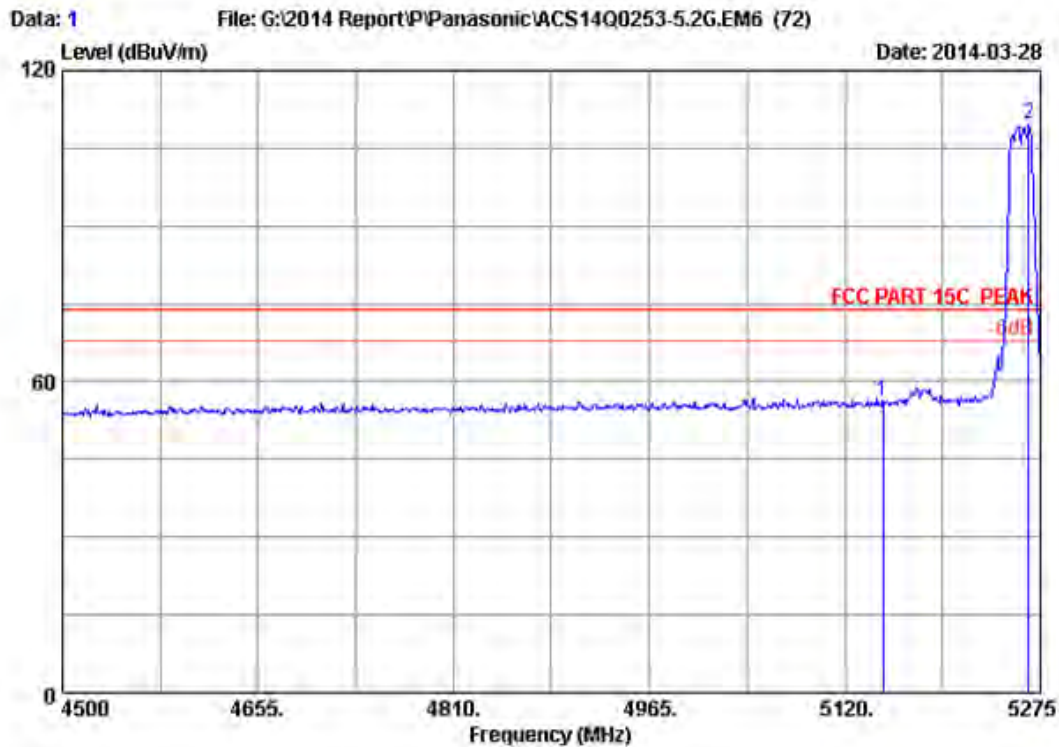


Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5230MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5221.430	33.55	9.00	35.70	73.36	80.21	54.00	-26.21	Average
2	5350.000	33.76	9.13	35.70	36.35	43.54	54.00	10.46	Average
3	5460.000	33.94	9.25	35.70	36.20	43.69	54.00	10.31	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

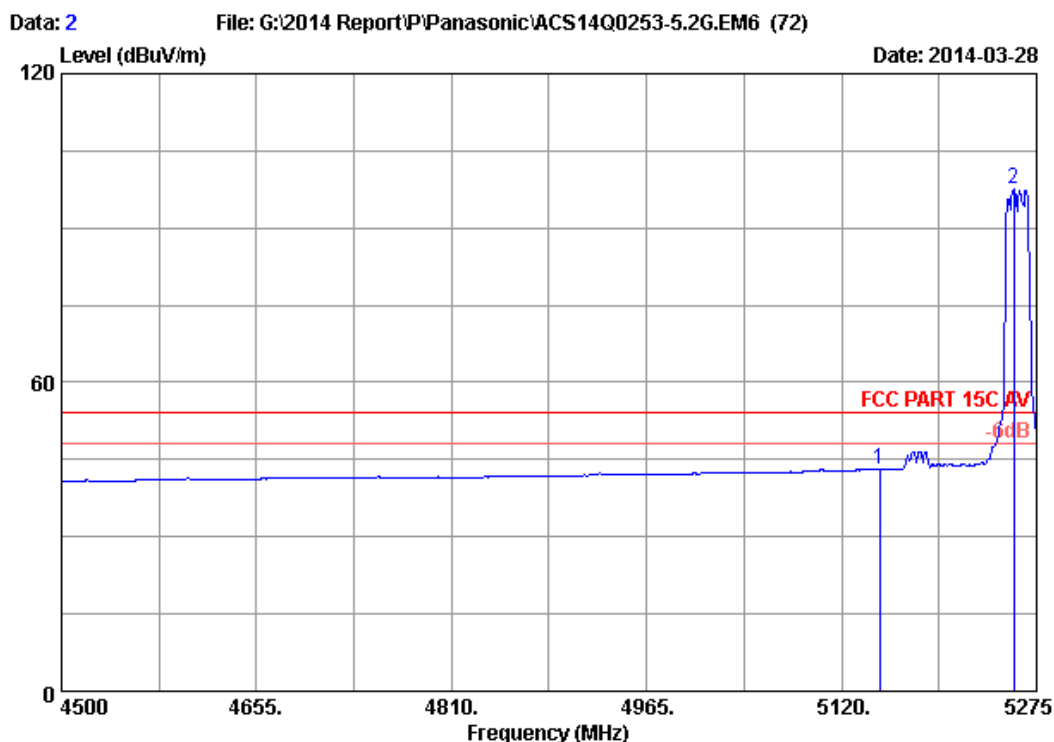
5250-5350MHz Band:



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	49.40	56.06	74.00	17.94	Peak
2	5265.700	33.63	9.04	35.70	102.61	109.58	74.00	-35.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

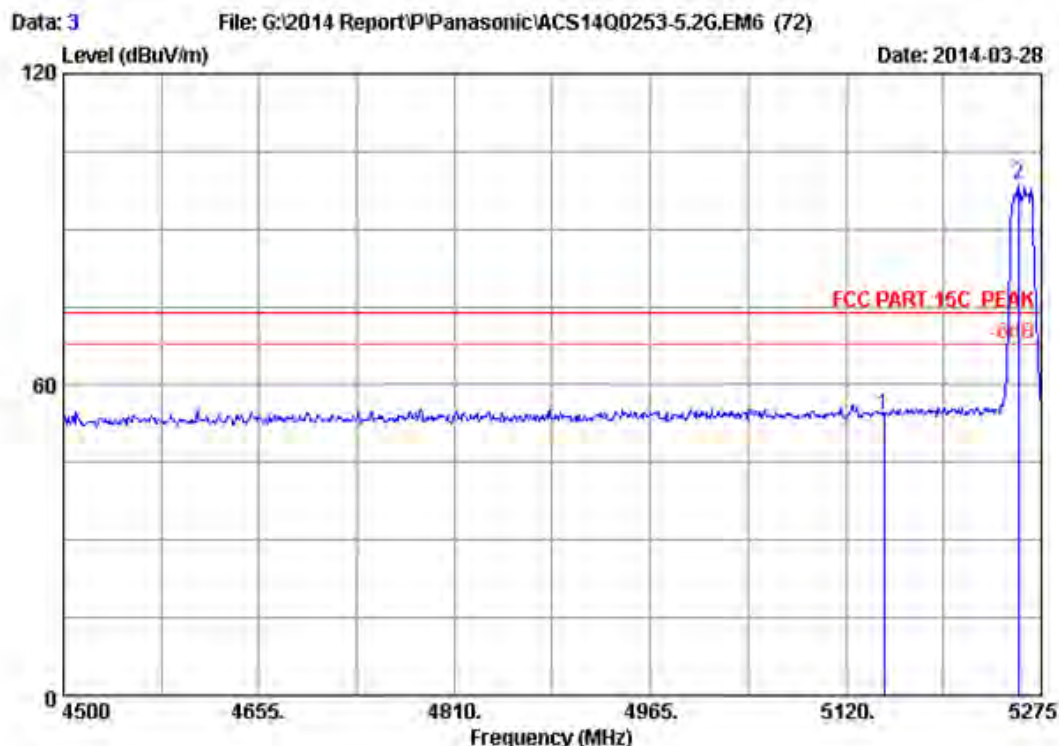


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	36.36	43.02	54.00	10.98	Average
2	5257.175	33.61	9.03	35.70	90.56	97.50	54.00	-43.50	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor

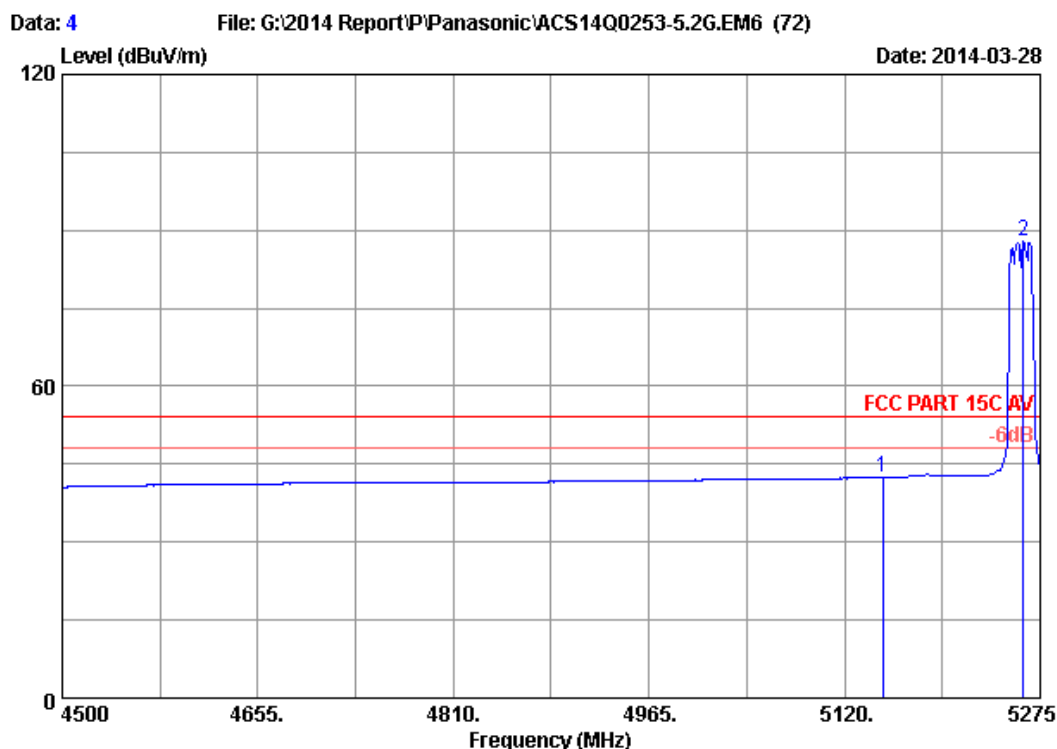
2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	47.59	54.25	74.00	19.75	Peak
2	5257.175	33.61	9.03	35.70	91.71	98.65	74.00	-24.65	Peak

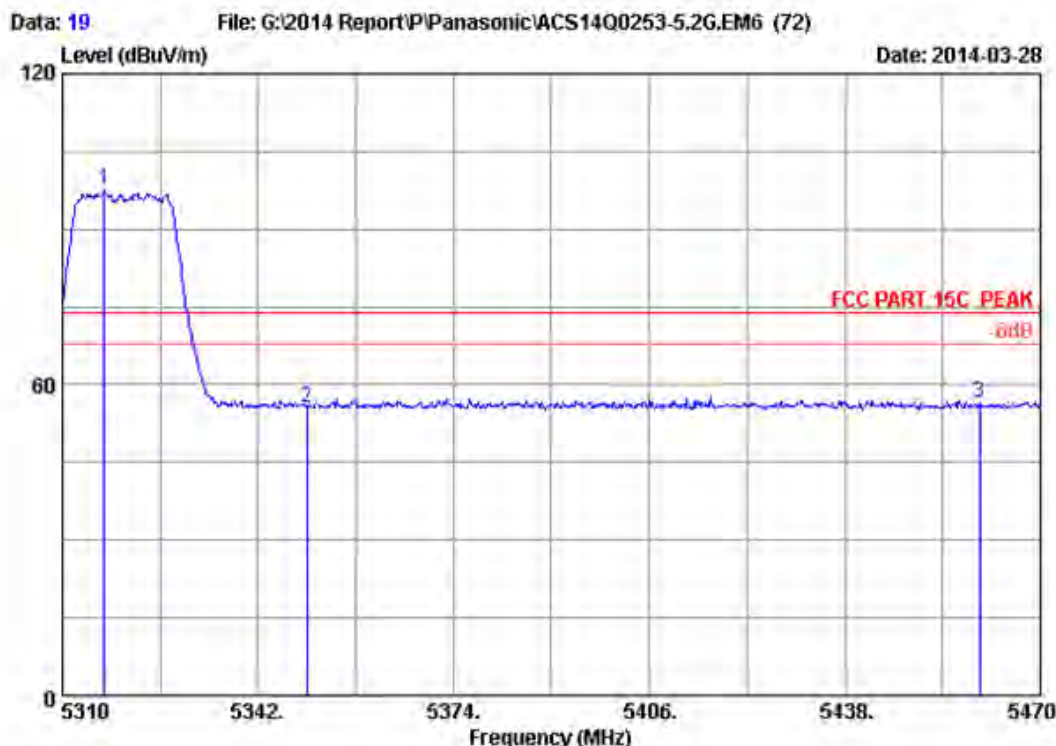
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	35.80	42.46	54.00	11.54	Average
2	5261.825	33.62	9.04	35.70	80.91	87.87	54.00	-33.87	Average

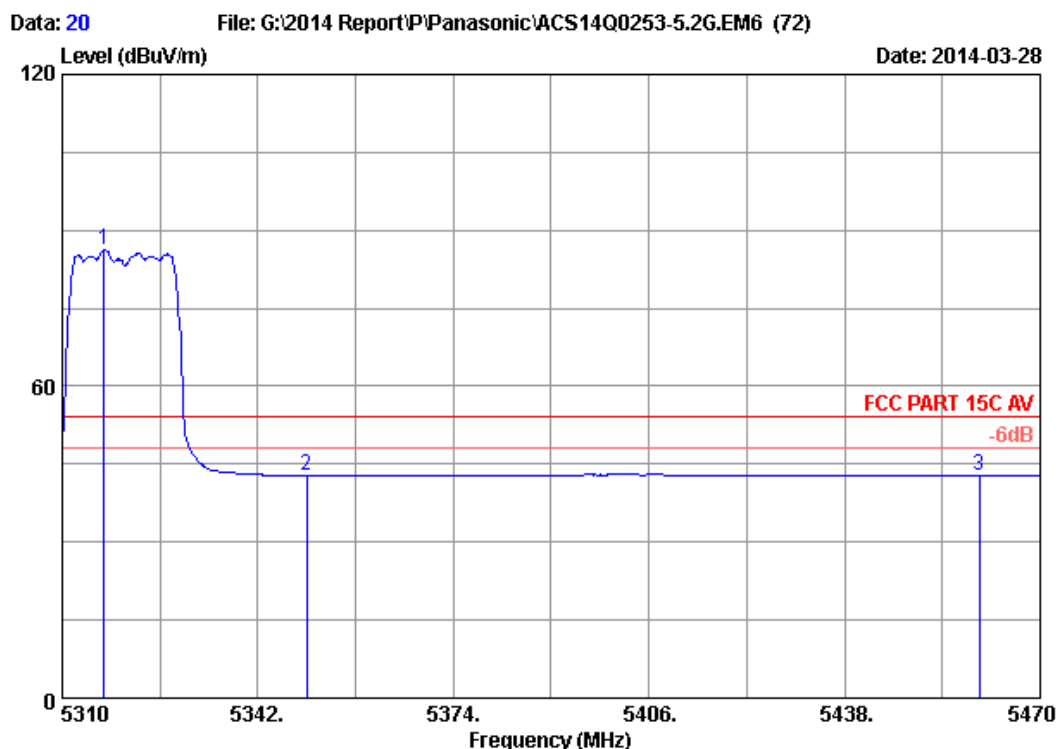
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5316.880	33.71	9.10	35.70	90.33	97.44	74.00	-23.44	Peak
2	5350.000	33.76	9.13	35.70	48.41	55.60	74.00	18.40	Peak
3	5460.000	33.94	9.25	35.70	48.86	56.35	74.00	17.65	Peak

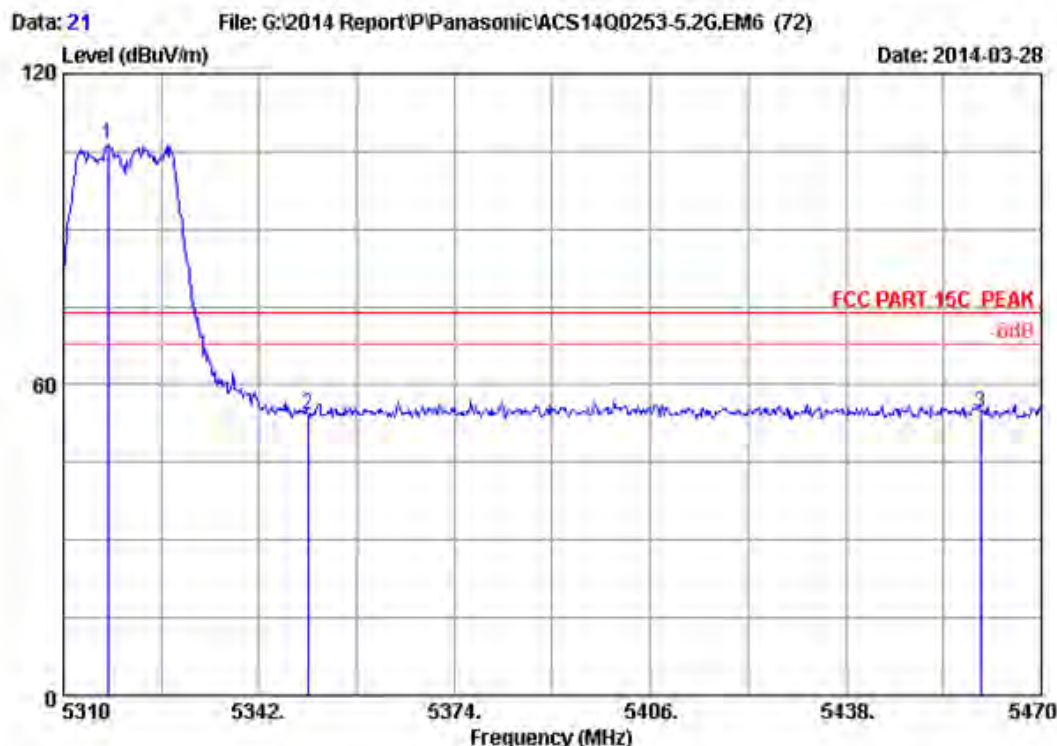
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5316.880	33.71	9.10	35.70	78.99	86.10	54.00	-32.10	Average
2	5350.000	33.76	9.13	35.70	35.67	42.86	54.00	11.14	Average
3	5460.000	33.94	9.25	35.70	35.32	42.81	54.00	11.19	Average

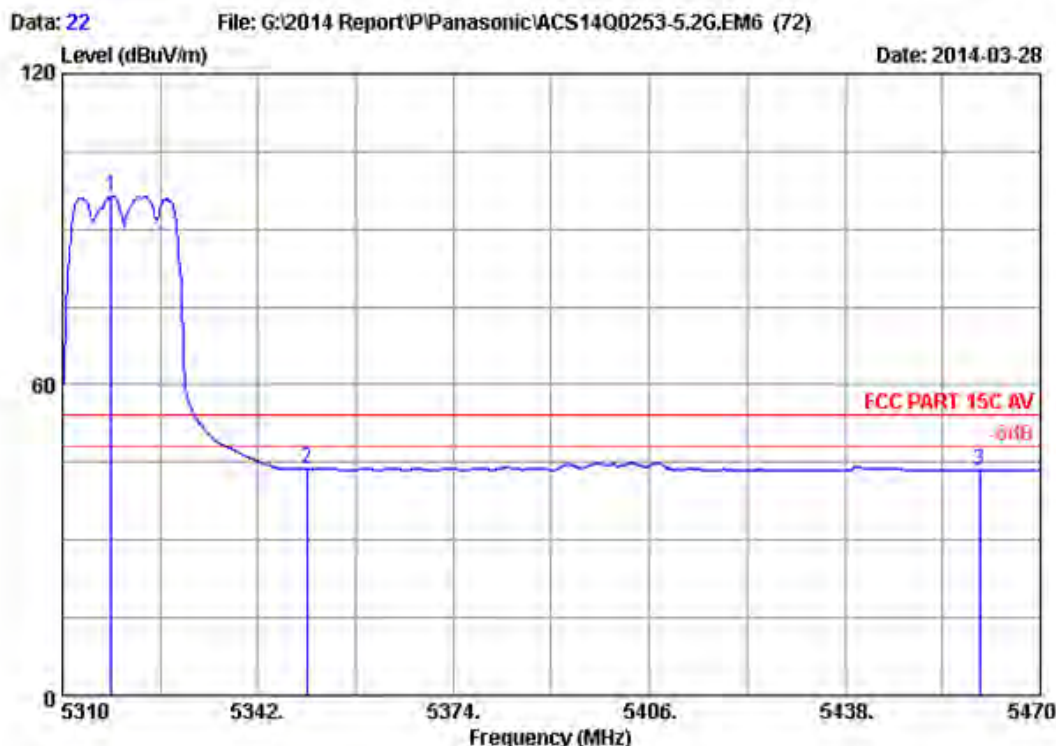
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5317.200	33.71	9.10	35.70	99.04	106.15	74.00	-32.15	Peak
2	5350.000	33.76	9.13	35.70	46.82	54.01	74.00	19.99	Peak
3	5460.000	33.94	9.25	35.70	46.85	54.34	74.00	19.66	Peak

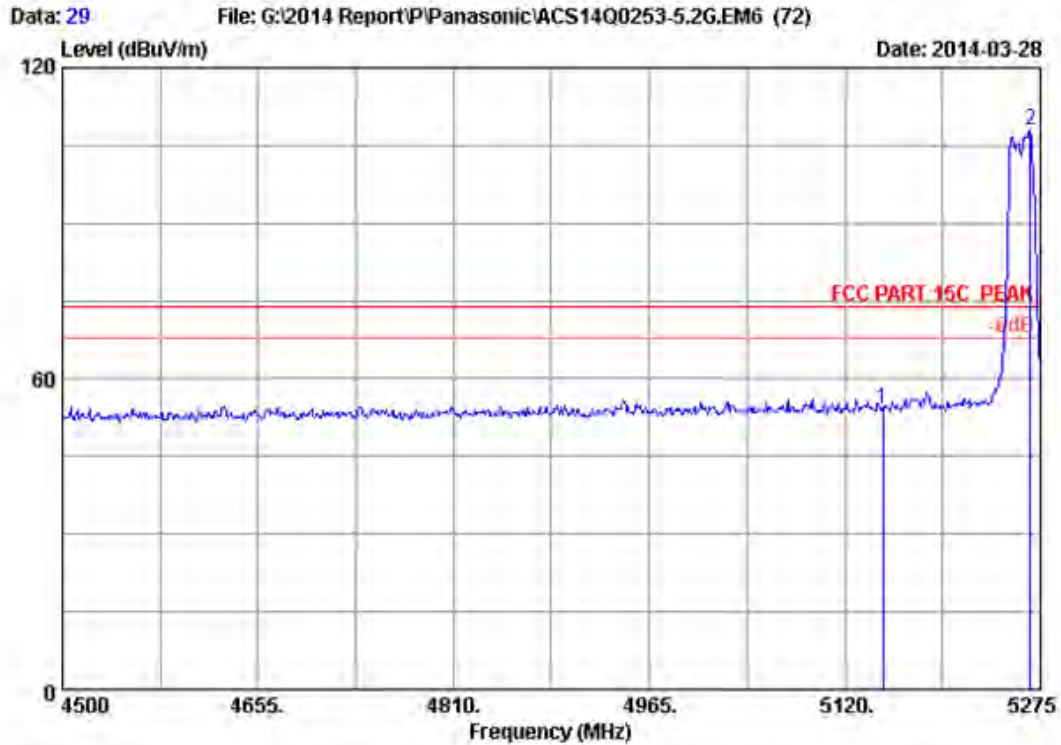
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5318.000	33.71	9.10	35.70	89.28	96.39	54.00	-42.39	Average
2	5350.000	33.76	9.13	35.70	36.56	43.75	54.00	10.25	Average
3	5460.000	33.94	9.25	35.70	35.88	43.37	54.00	10.63	Average

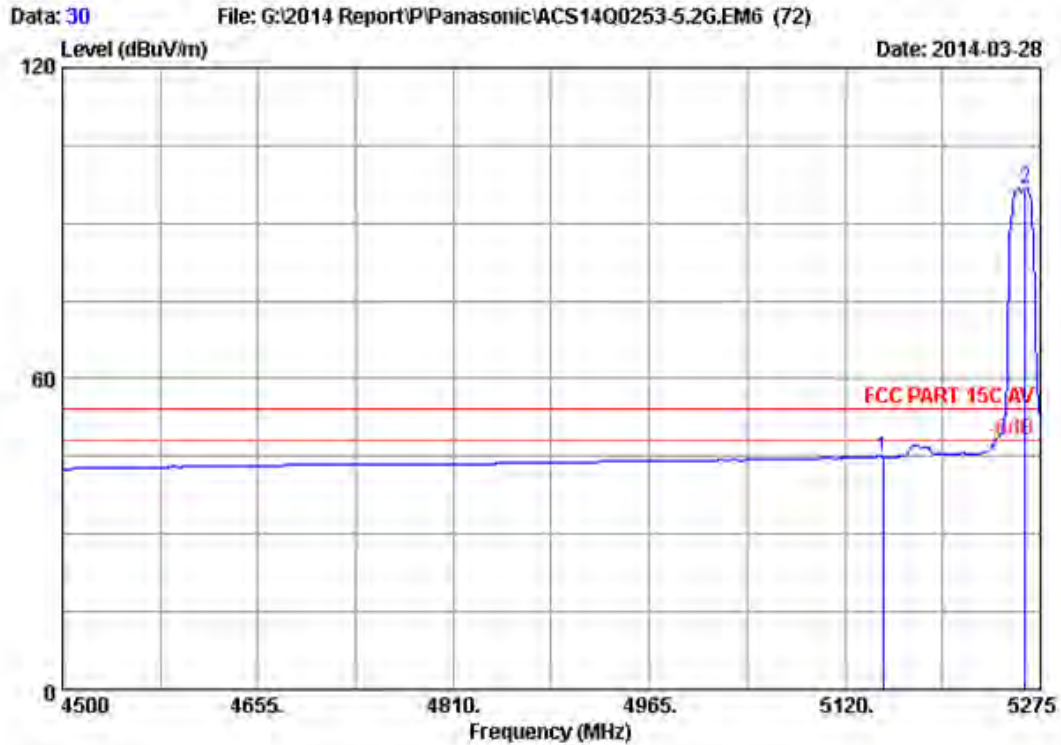
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	47.59	54.25	74.00	19.75	Peak
2	5267.250	33.63	9.04	35.70	100.93	107.90	74.00	-33.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

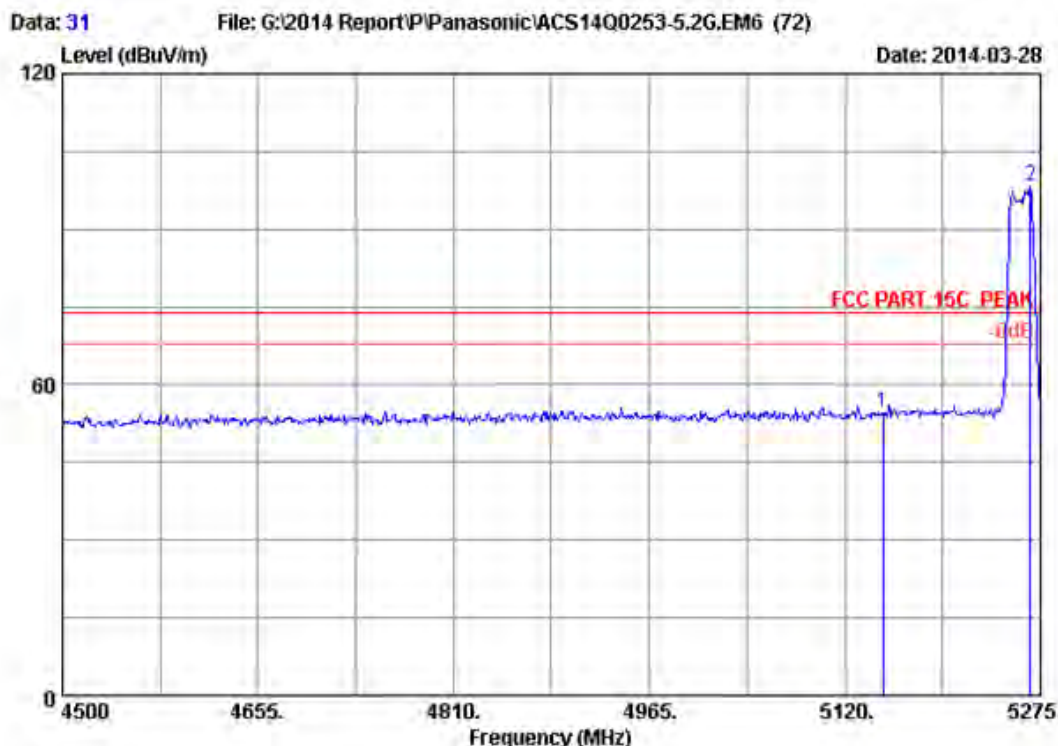


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	38.23	44.89	54.00	9.11	Average
2	5263.375	33.62	9.04	35.70	89.76	96.72	54.00	-42.72	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor

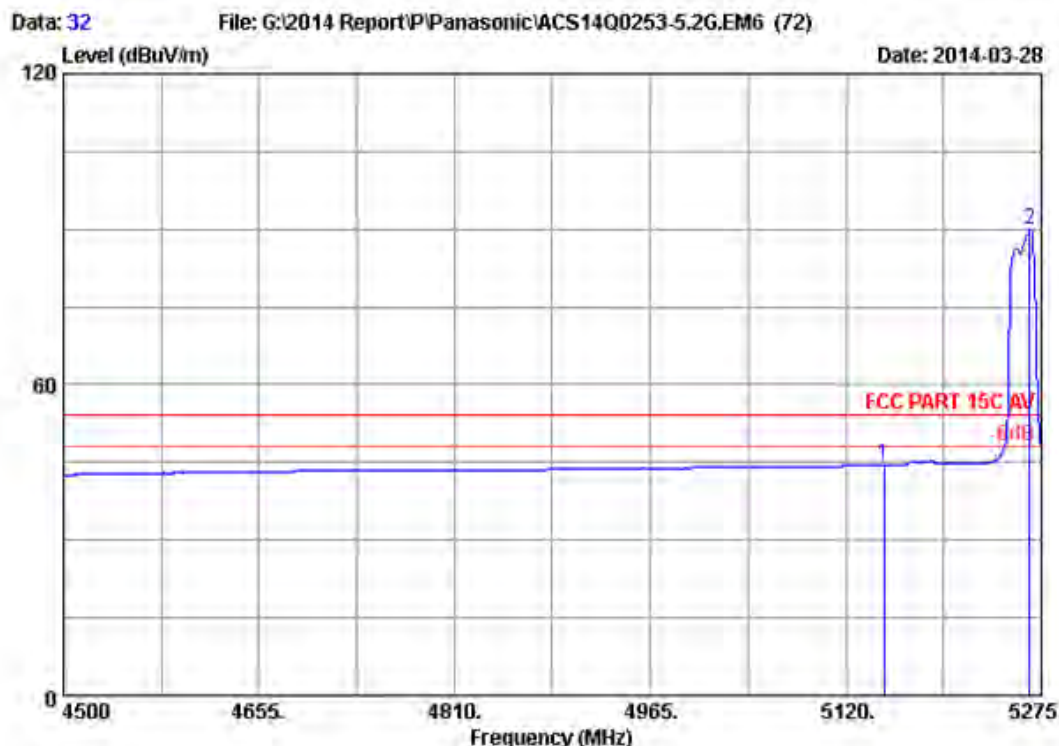
2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	47.89	54.55	74.00	19.45	Peak
2	5267.250	33.63	9.04	35.70	91.36	98.33	74.00	-24.33	Peak

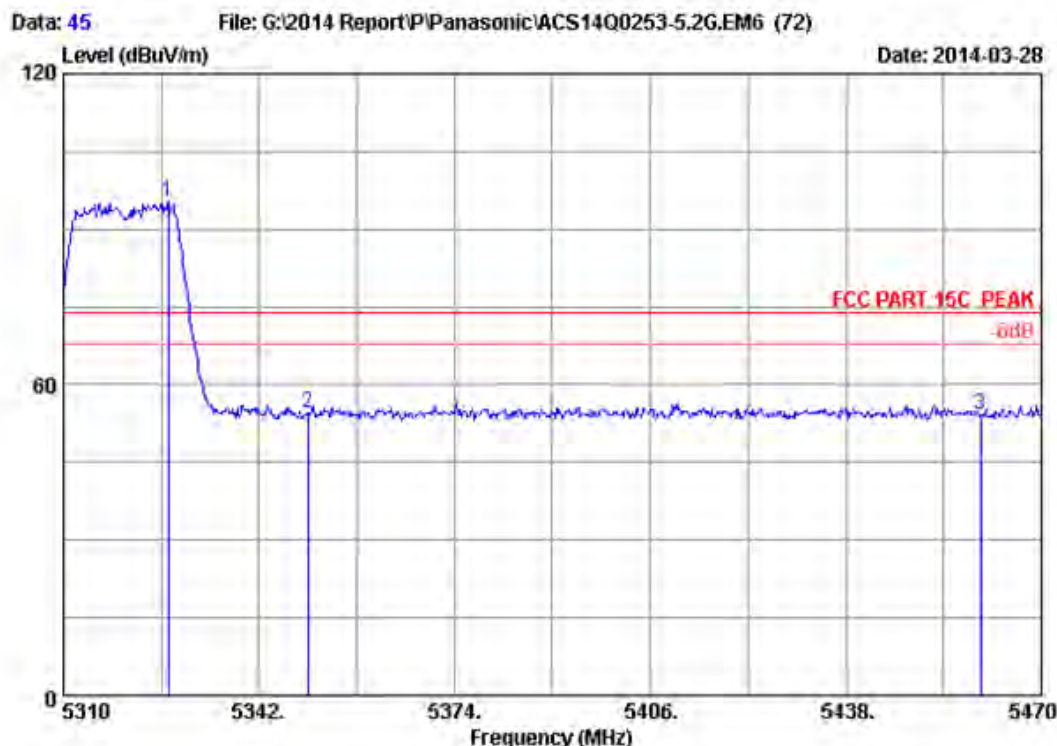
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5260MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	37.84	44.50	54.00	9.50	Average
2	5265.700	33.63	9.04	35.70	82.78	89.75	54.00	-35.75	Average

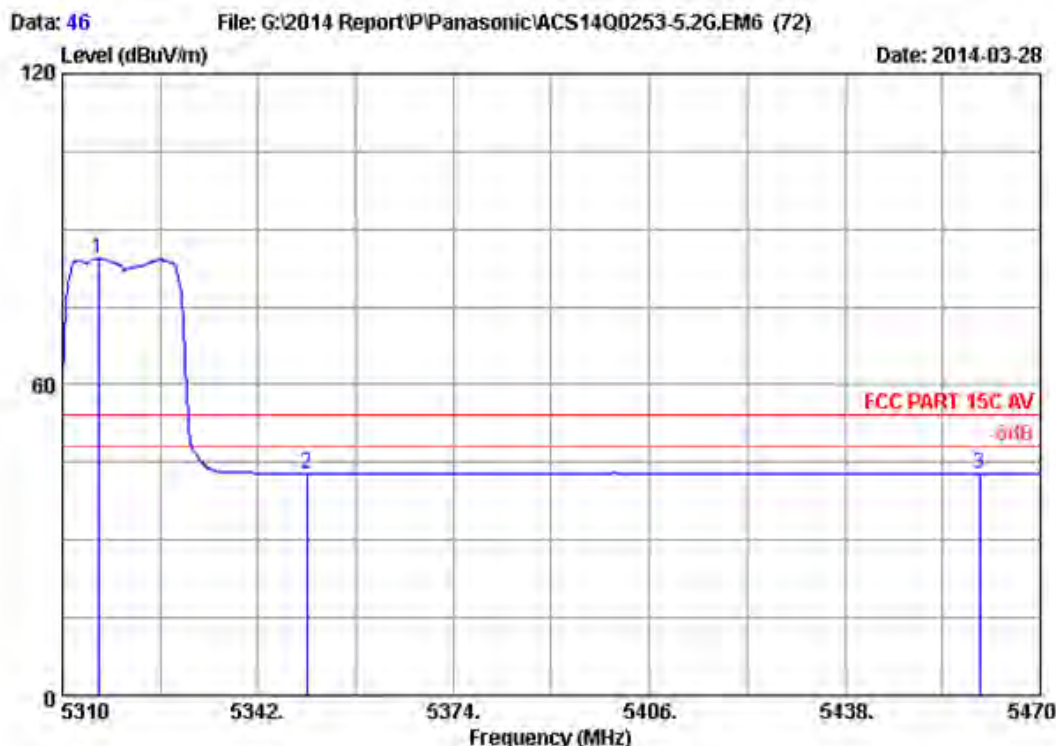
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5320MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5327.120	33.72	9.11	35.70	88.00	95.13	74.00	-21.13	Peak
2	5350.000	33.76	9.13	35.70	47.35	54.54	74.00	19.46	Peak
3	5460.000	33.94	9.25	35.70	46.77	54.26	74.00	19.74	Peak

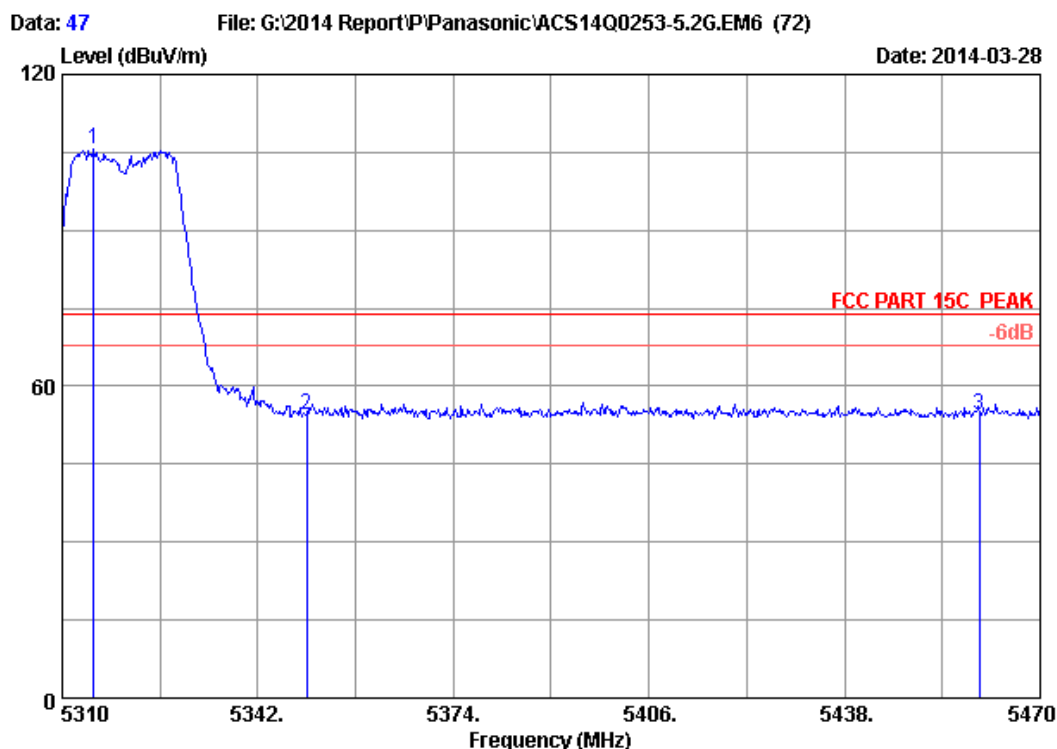
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5315.920	33.71	9.10	35.70	77.21	84.32	54.00	-30.32	Average
2	5350.000	33.76	9.13	35.70	35.63	42.82	54.00	11.18	Average
3	5460.000	33.94	9.25	35.70	35.34	42.63	54.00	11.17	Average

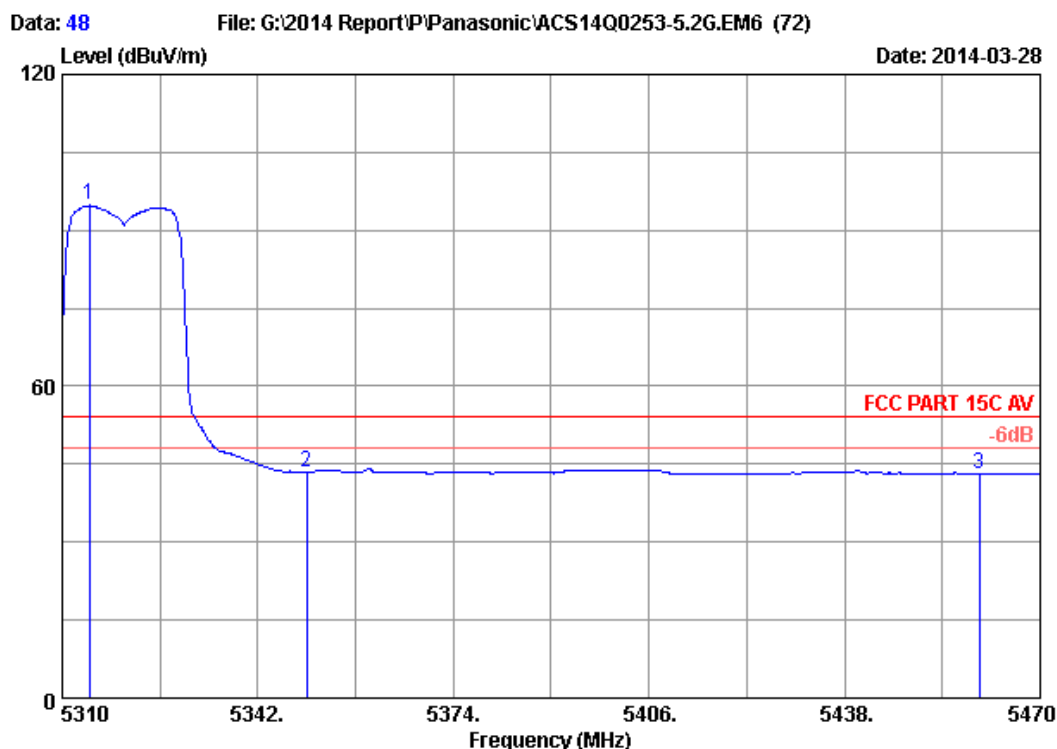
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5315.120	33.70	9.10	35.70	98.37	105.47	74.00	-31.47	Peak
2	5350.000	33.76	9.13	35.70	47.32	54.51	74.00	19.49	Peak
3	5460.000	33.94	9.25	35.70	47.15	54.64	74.00	19.36	Peak

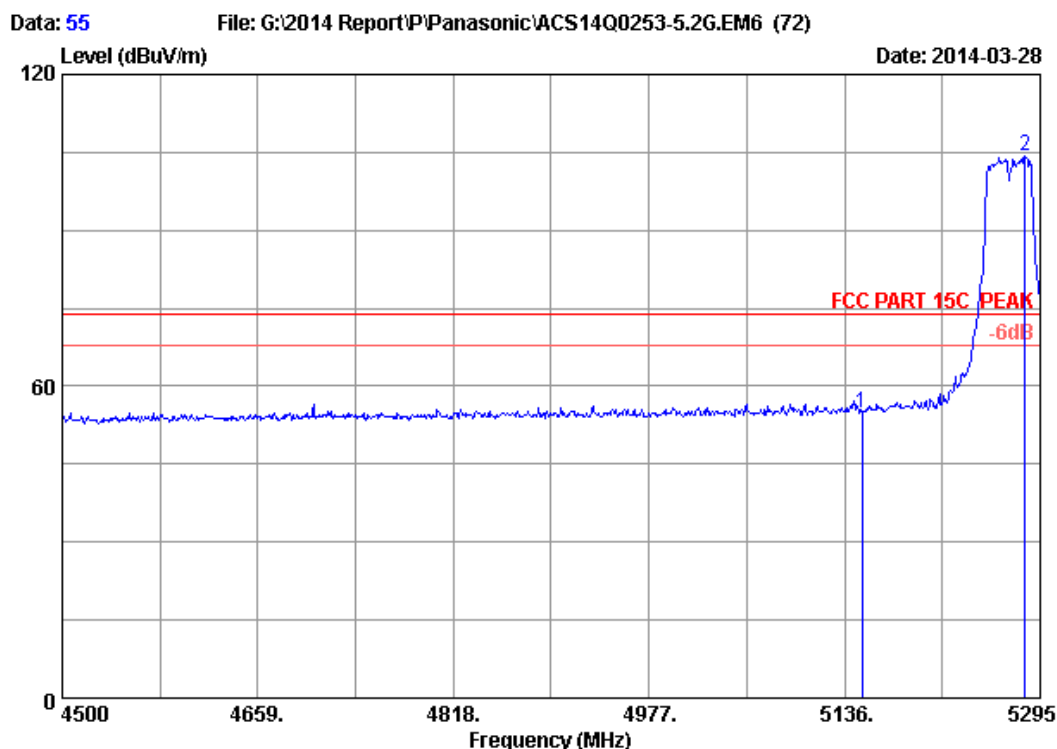
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5320MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5314.480	33.70	9.09	35.70	87.68	94.77	54.00	-40.77	Average
2	5350.000	33.76	9.13	35.70	36.35	43.54	54.00	10.46	Average
3	5460.000	33.94	9.25	35.70	35.69	43.18	54.00	10.82	Average

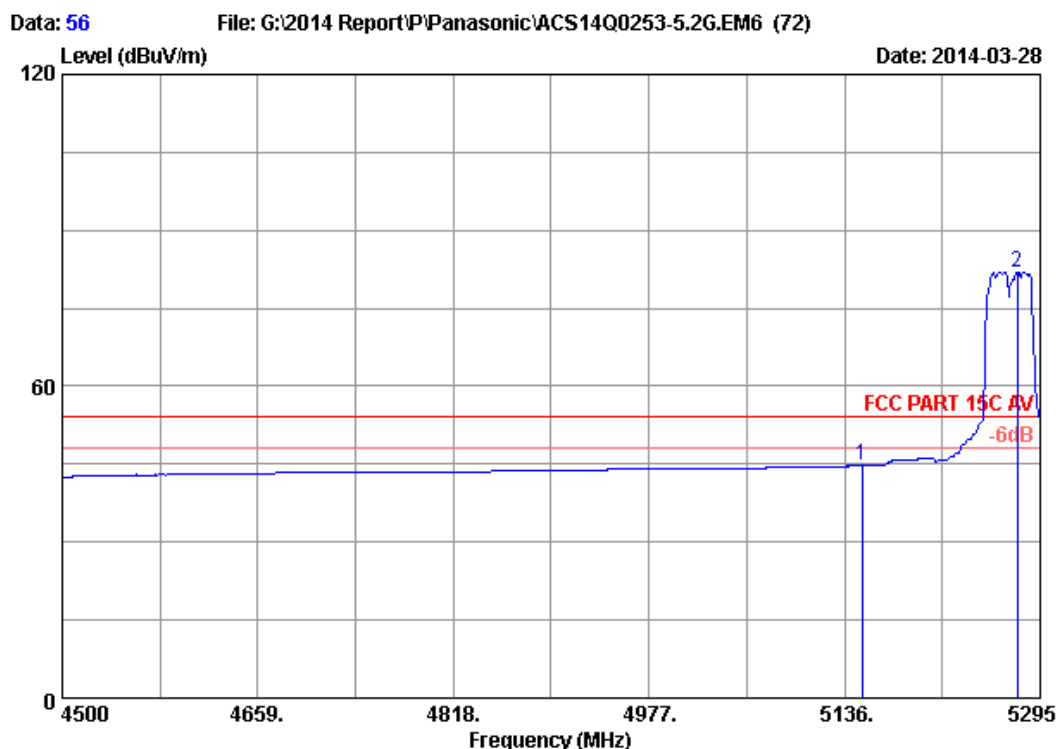
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5270MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Cable AMP			Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	48.25	54.91	74.00	19.09	Peak
2	5283.075	33.65	9.06	35.70	97.19	104.20	74.00	-30.20	Peak

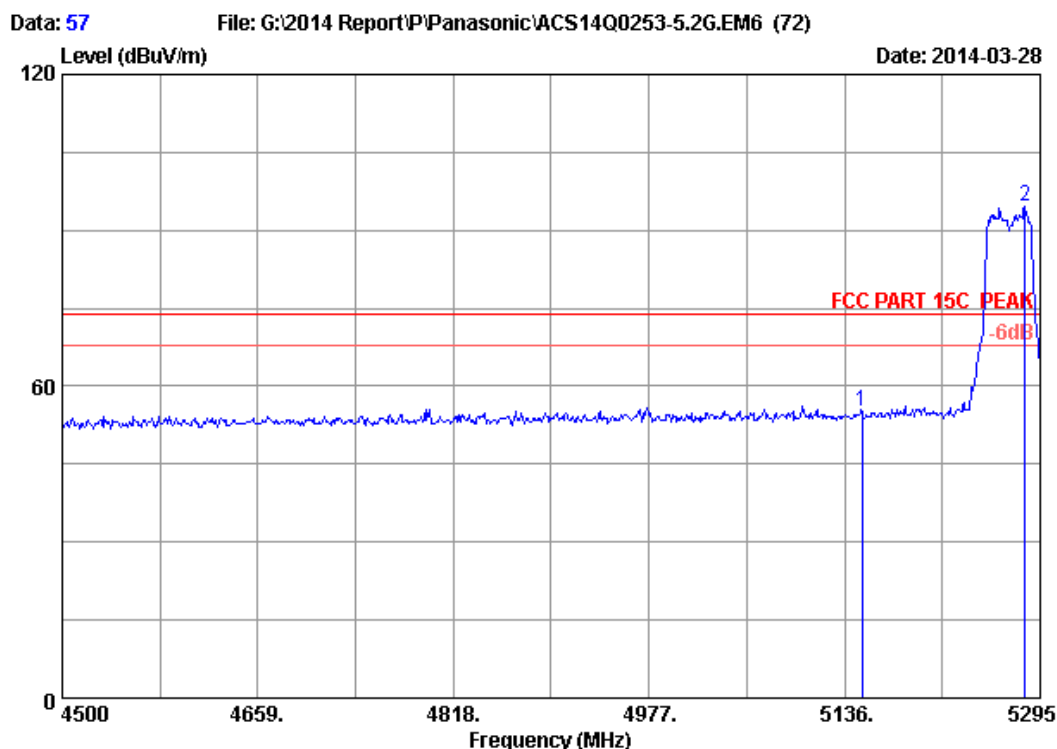
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5270MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	38.05	44.71	54.00	9.29	Average
2	5276.715	33.64	9.05	35.70	75.04	82.03	54.00	-28.03	Average

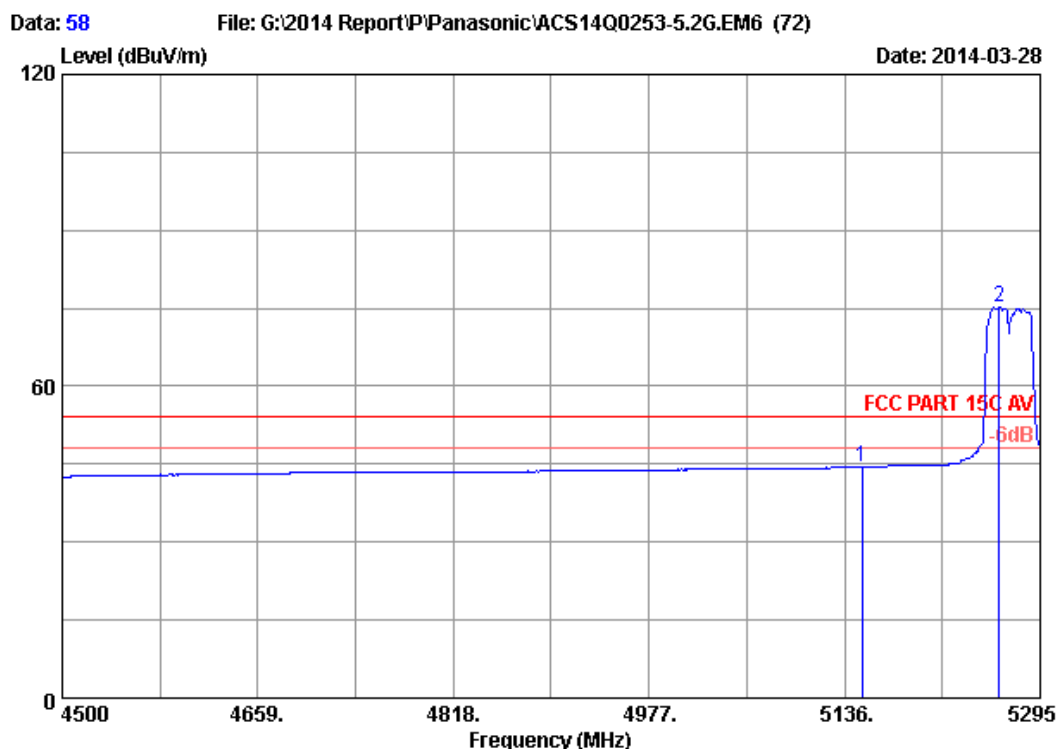
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5270MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Cable AMP			Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	48.58	55.24	74.00	18.76	Peak
2	5283.075	33.65	9.06	35.70	87.58	94.59	74.00	-20.59	Peak

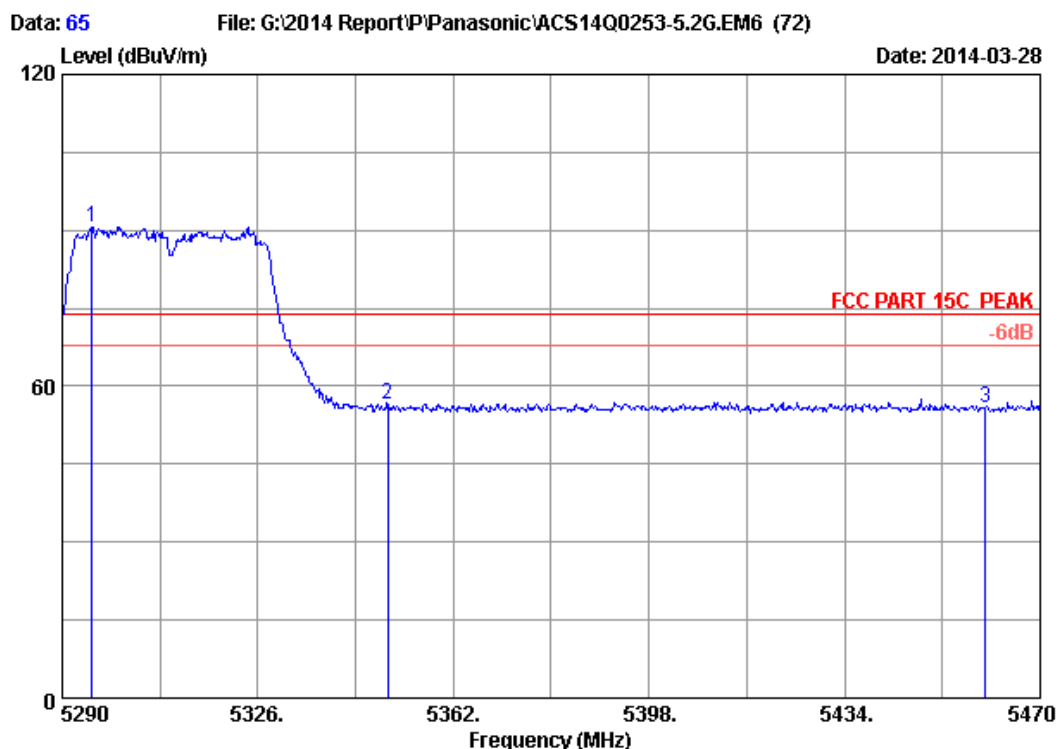
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5270MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.000	33.44	8.92	35.70	37.80	44.46	54.00	9.54	Average
2	5261.610	33.62	9.04	35.70	68.19	75.15	54.00	-21.15	Average

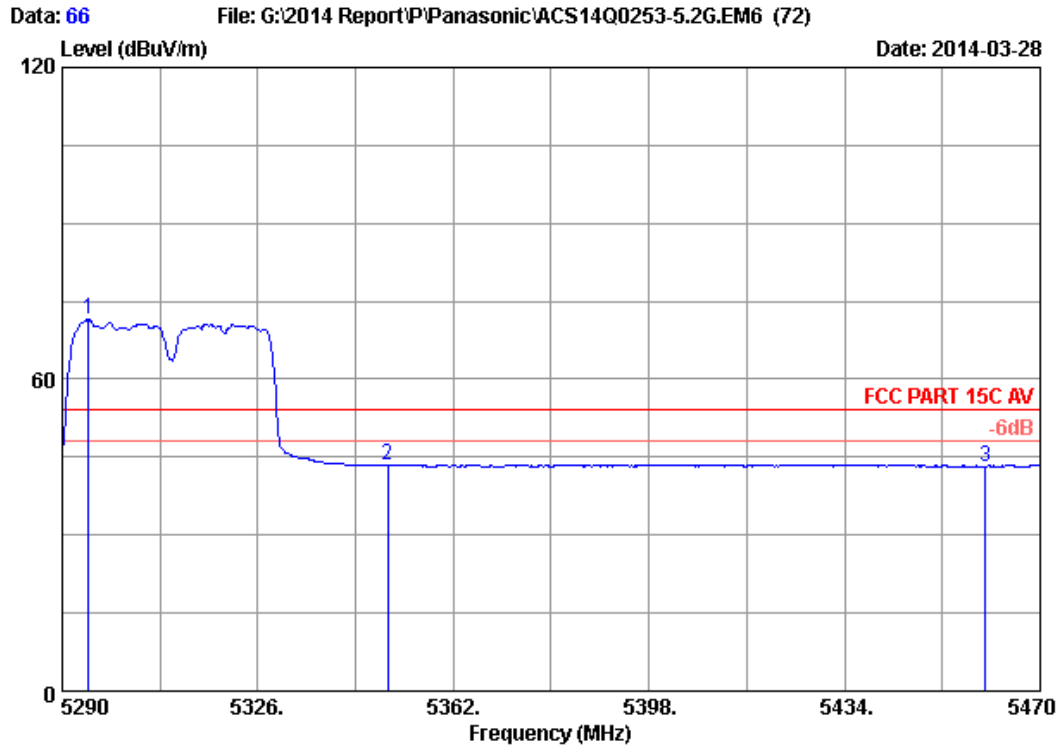
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5310MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5295.400	33.67	9.07	35.70	83.49	90.53	74.00	-16.53	Peak
2	5350.000	33.76	9.13	35.70	49.15	56.34	74.00	17.66	Peak
3	5460.000	33.94	9.25	35.70	48.49	55.98	74.00	18.02	Peak

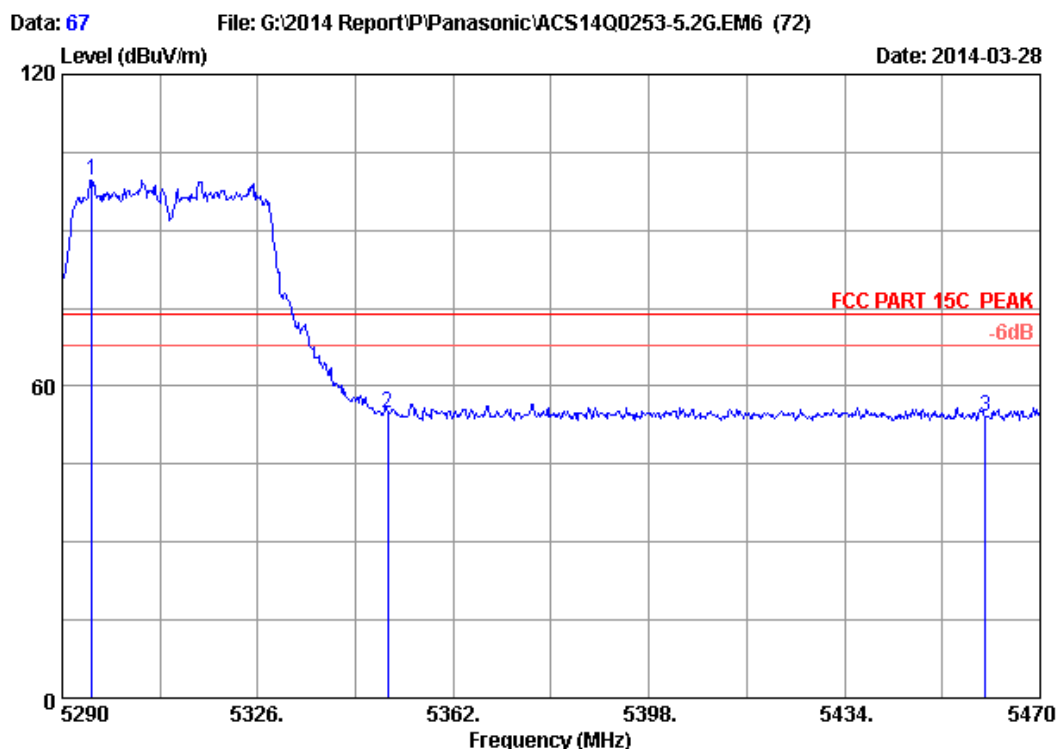
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5310MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5294.860	33.67	9.07	35.70	64.51	71.55	54.00	-17.55	Average
2	5350.000	33.76	9.13	35.70	36.16	43.35	54.00	10.65	Average
3	5460.000	33.94	9.25	35.70	35.78	43.27	54.00	10.73	Average

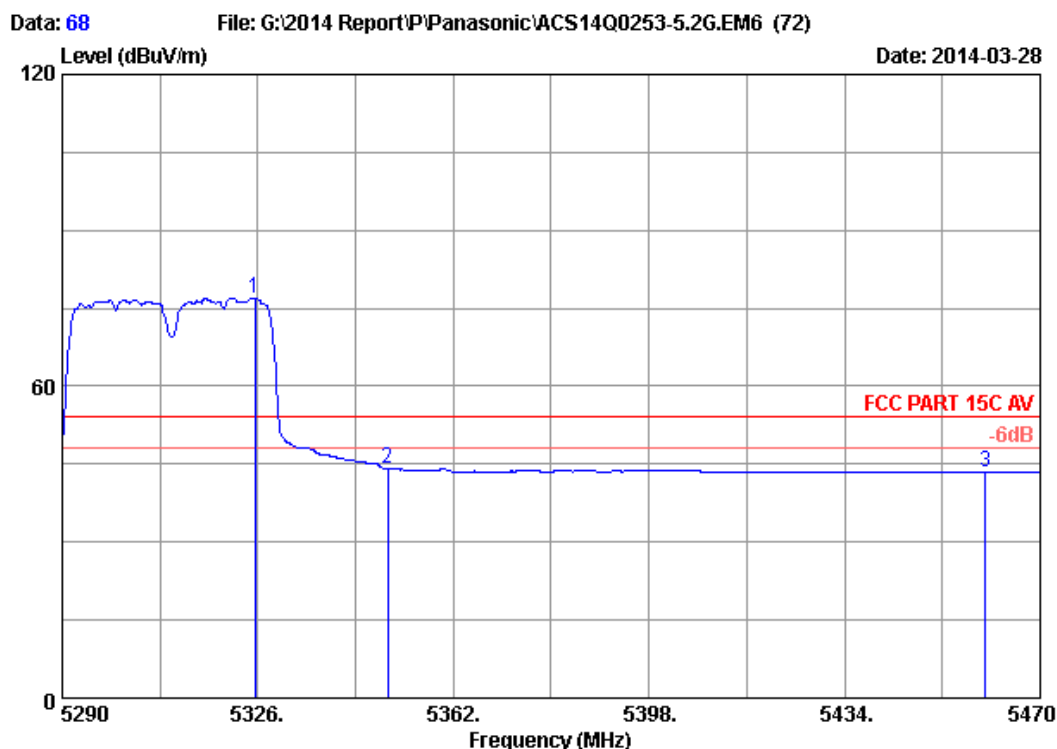
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5310MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5295.400	33.67	9.07	35.70	92.68	99.72	74.00	-25.72	Peak
2	5350.000	33.76	9.13	35.70	47.62	54.81	74.00	19.19	Peak
3	5460.000	33.94	9.25	35.70	46.63	54.12	74.00	19.88	Peak

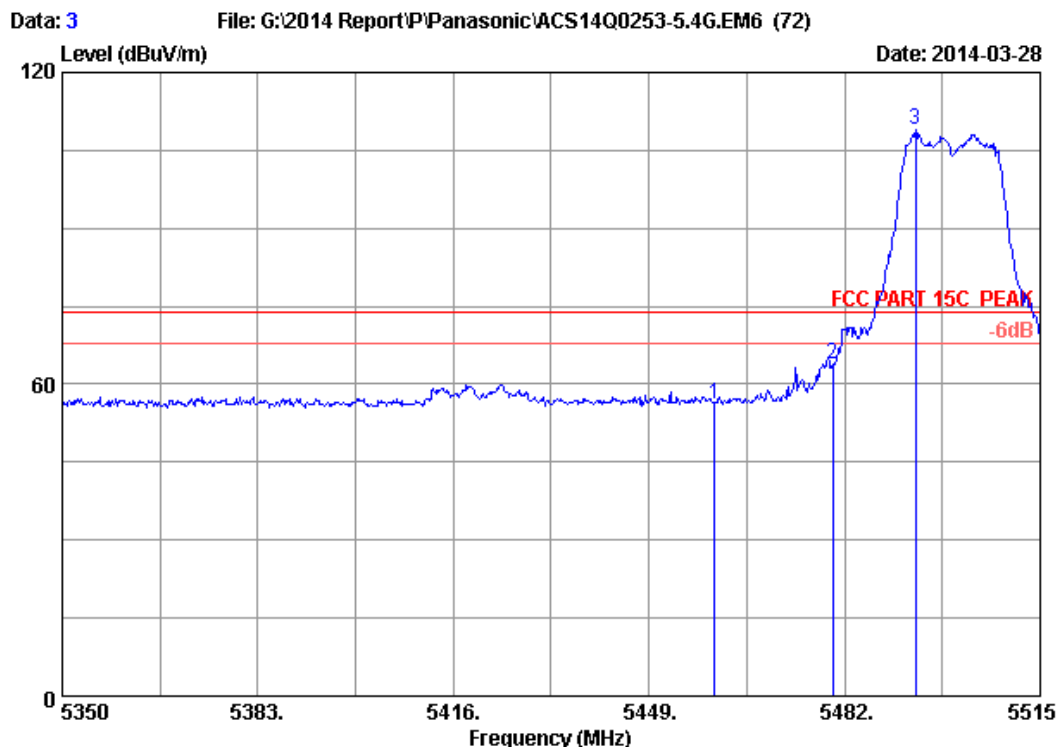
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5310MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5325.460	33.72	9.11	35.70	69.90	77.03	54.00	-23.03	Average
2	5350.000	33.76	9.13	35.70	36.96	44.15	54.00	9.85	Average
3	5460.000	33.94	9.25	35.70	35.94	43.43	54.00	10.57	Average

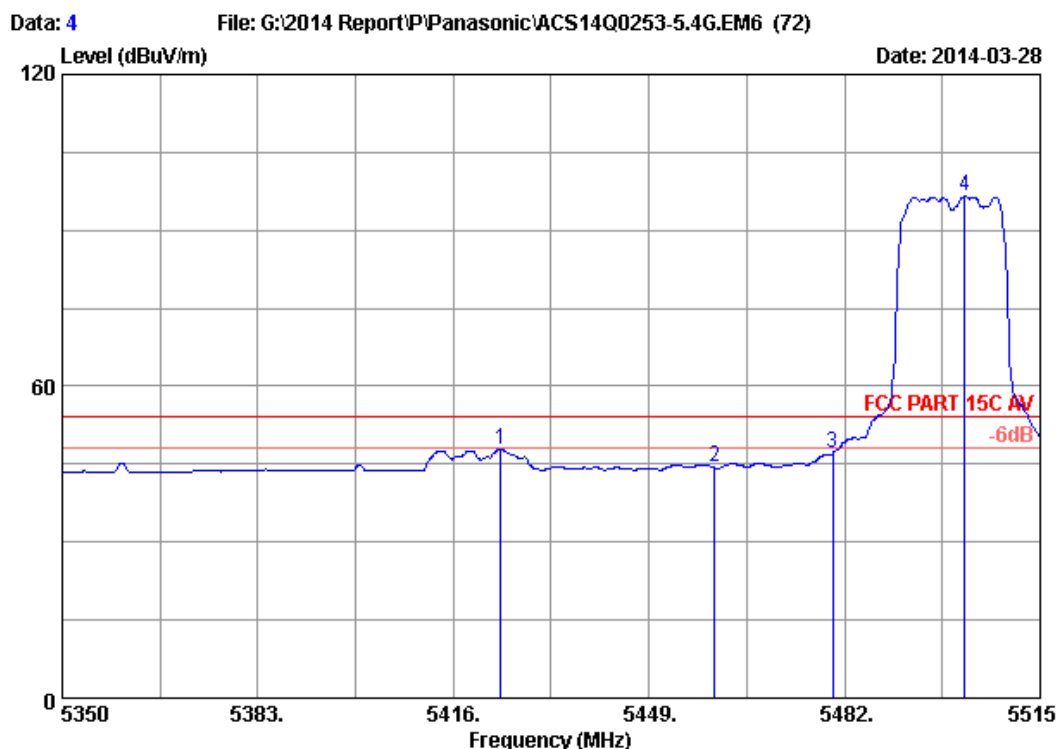
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

5470-5725MHz Band:


Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11a 5500MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.62	56.11	74.00	17.89	Peak
2	5480.000	33.97	9.27	35.70	56.40	63.94	74.00	10.06	Peak
3	5494.045	33.99	9.28	35.70	101.39	108.96	74.00	-34.96	Peak

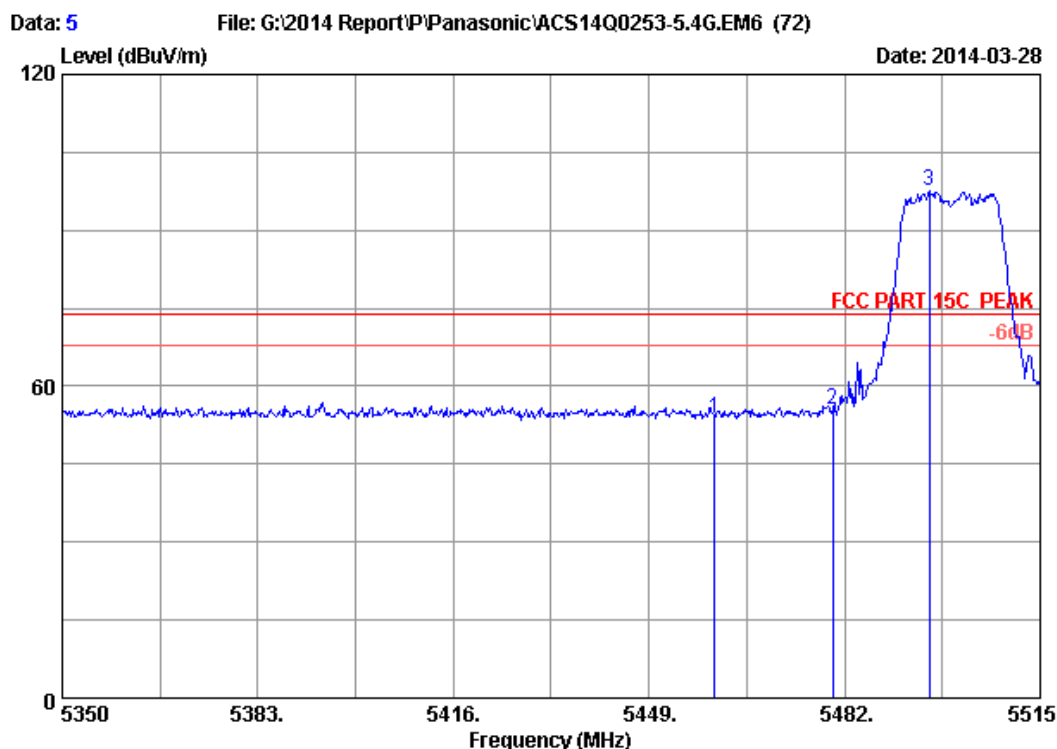
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5500MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5423.920	33.88	9.21	35.70	40.47	47.86	54.00	6.14	Average
2	5460.000	33.94	9.25	35.70	36.87	44.36	54.00	9.64	Average
3	5480.000	33.97	9.27	35.70	39.69	47.23	54.00	6.77	Average
4	5502.295	34.00	9.29	35.70	88.95	96.54	54.00	-42.54	Average

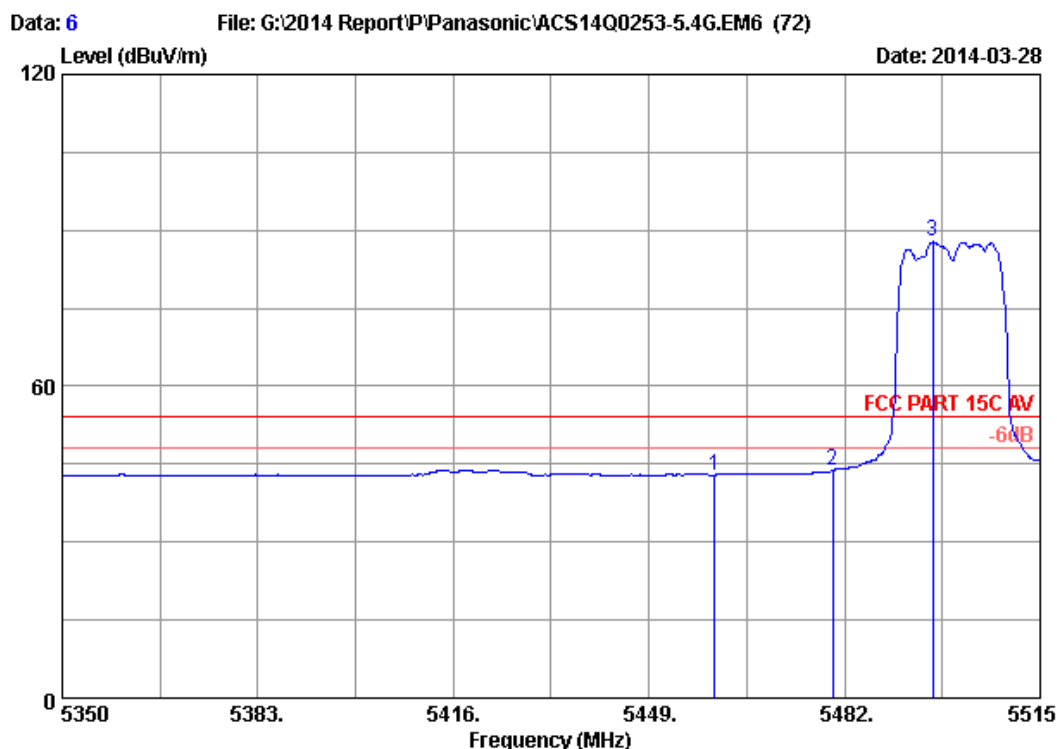
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5500MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	46.26	53.75	74.00	20.25	Peak
2	5480.000	33.97	9.27	35.70	48.11	55.65	74.00	18.35	Peak
3	5496.355	33.99	9.28	35.70	90.03	97.60	74.00	-23.60	Peak

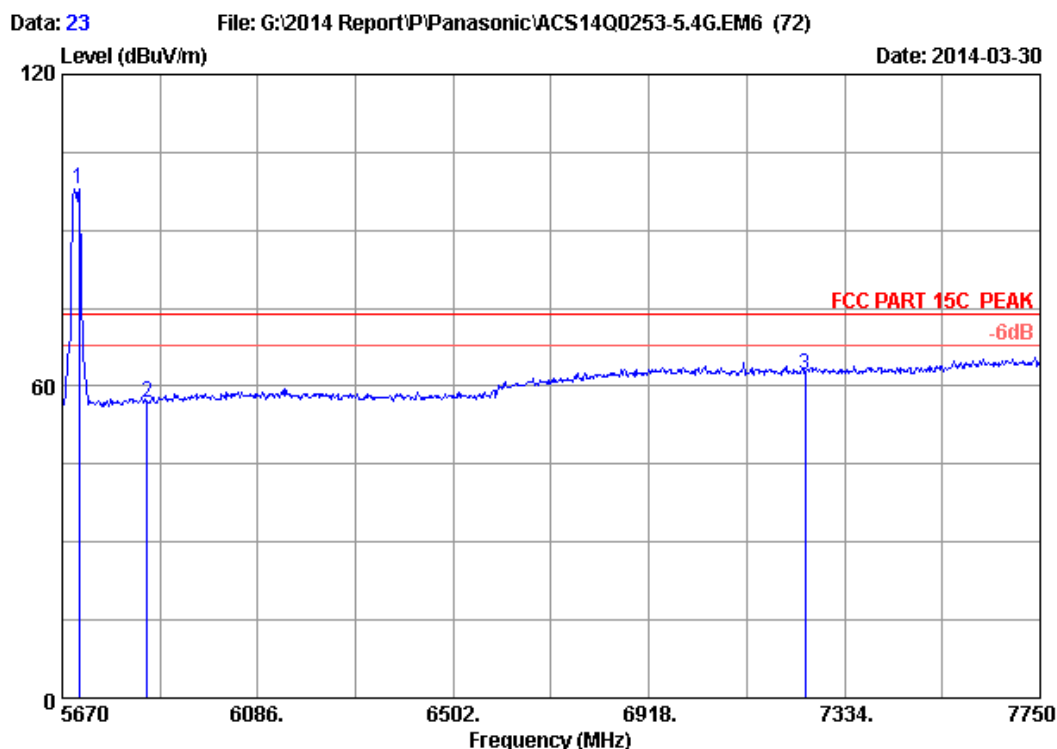
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11a 5500MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	35.44	42.93	54.00	11.07	Average
2	5480.000	33.97	9.27	35.70	36.26	43.80	54.00	10.20	Average
3	5496.850	33.99	9.29	35.70	80.16	87.74	54.00	-33.74	Average

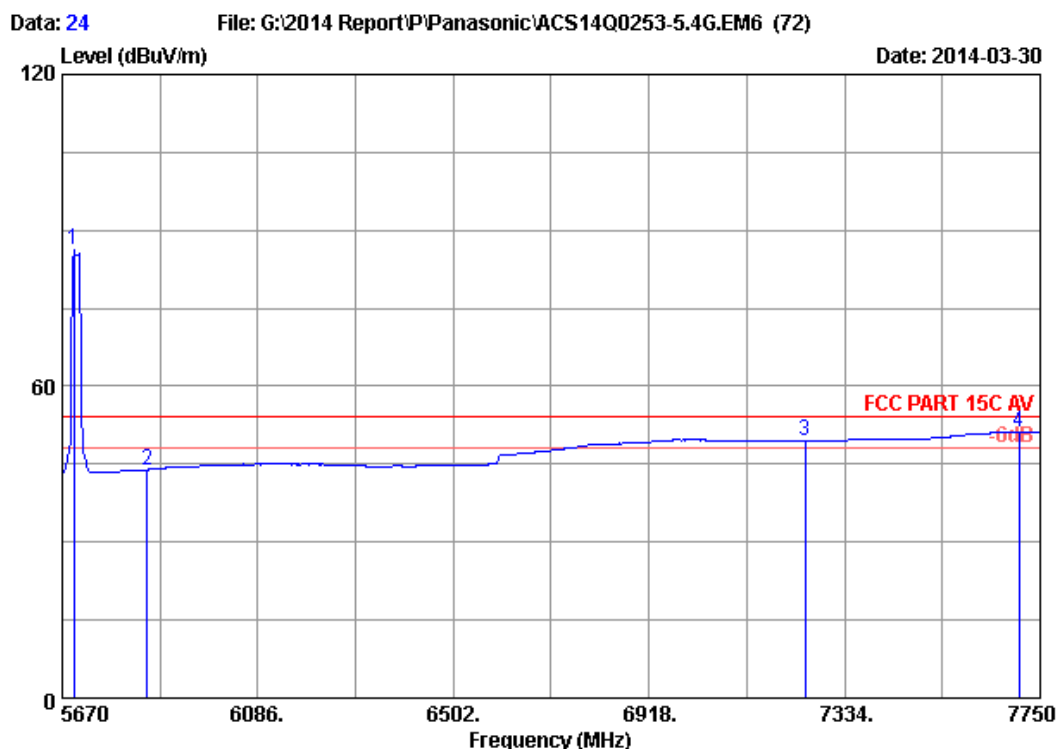
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Cable AMP			Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5705.360	34.08	9.50	35.70	90.09	97.97	74.00	-23.97	Peak
2	5850.000	34.14	9.66	35.70	48.89	56.99	74.00	17.01	Peak
3	7250.000	36.05	10.99	35.45	50.59	62.18	74.00	11.82	Peak

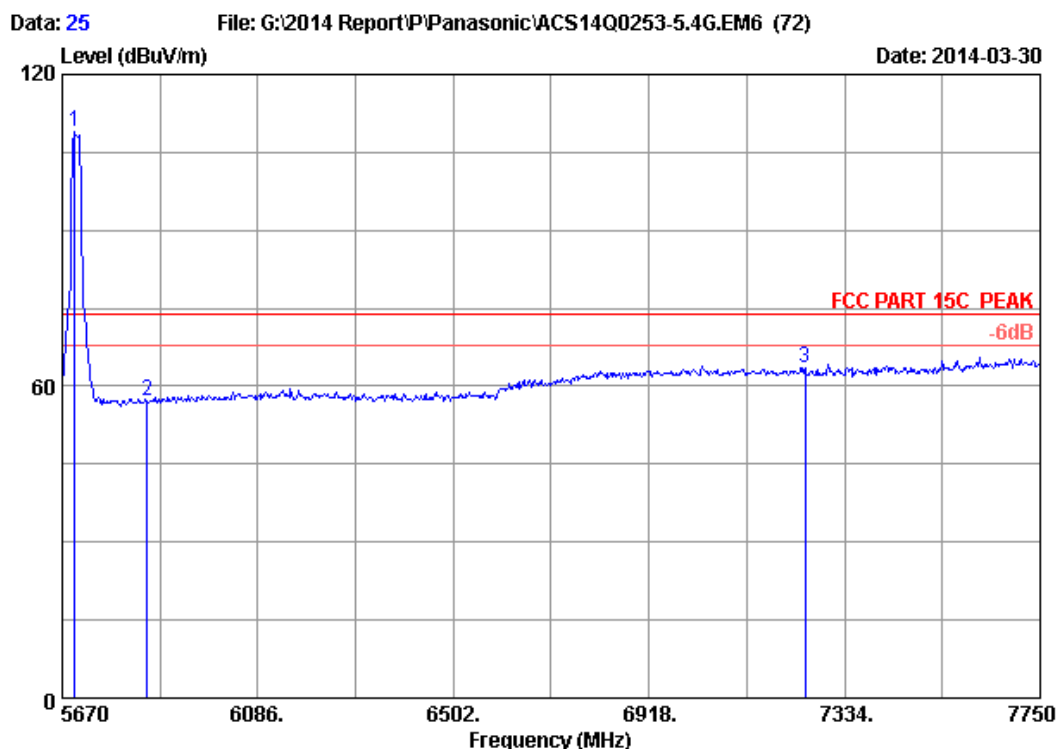
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5694.960	34.08	9.49	35.70	78.23	86.10	54.00	-32.10	Average
2	5850.000	34.14	9.66	35.70	35.84	43.94	54.00	10.06	Average
3	7250.000	36.05	10.99	35.45	37.99	49.58	54.00	4.42	Average
4	7704.240	36.80	11.23	35.36	38.63	51.30	54.00	2.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

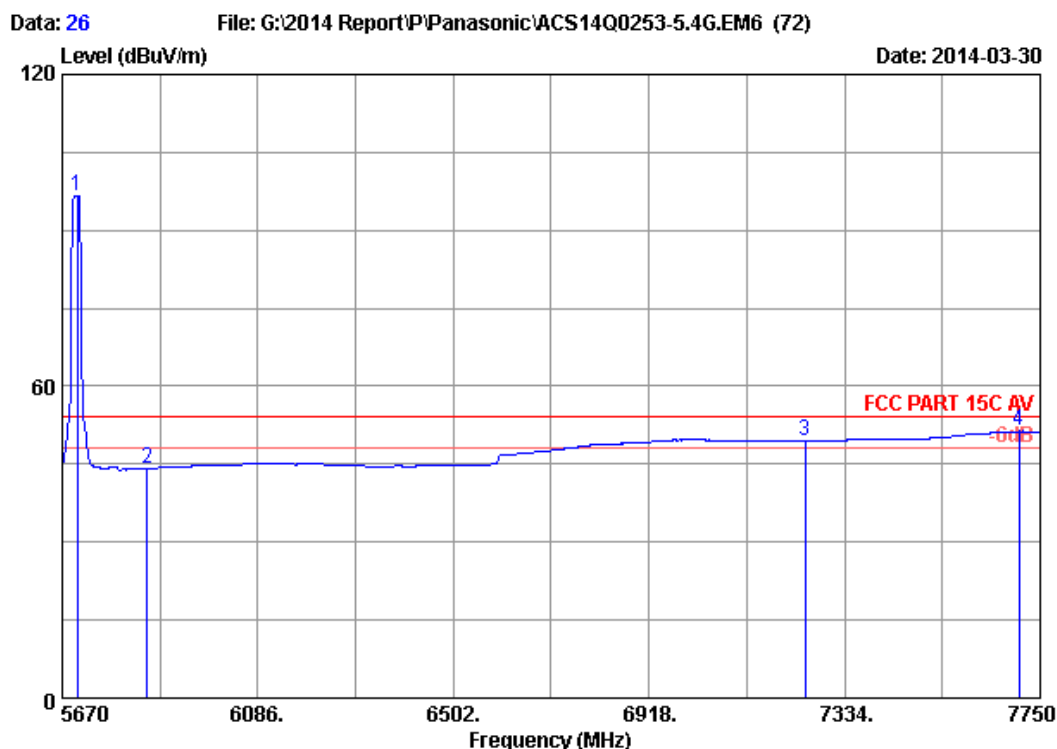


Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 2013 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 24°C/56%	Engineer	: Leo-Li
EUT	: Wireless Speaker System		
Power Rating	: AC 120V/60Hz		
Test Mode	: IEEE802.11a 5700MHz Tx		
M/N	: SC-ALL3		

No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission			Remark
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	5697.040	34.08	9.50	35.70	101.07	108.95	74.00	-34.95	Peak
2	5850.000	34.14	9.66	35.70	49.00	57.10	74.00	16.90	Peak
3	7250.000	36.05	10.99	35.45	51.82	63.41	74.00	10.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor

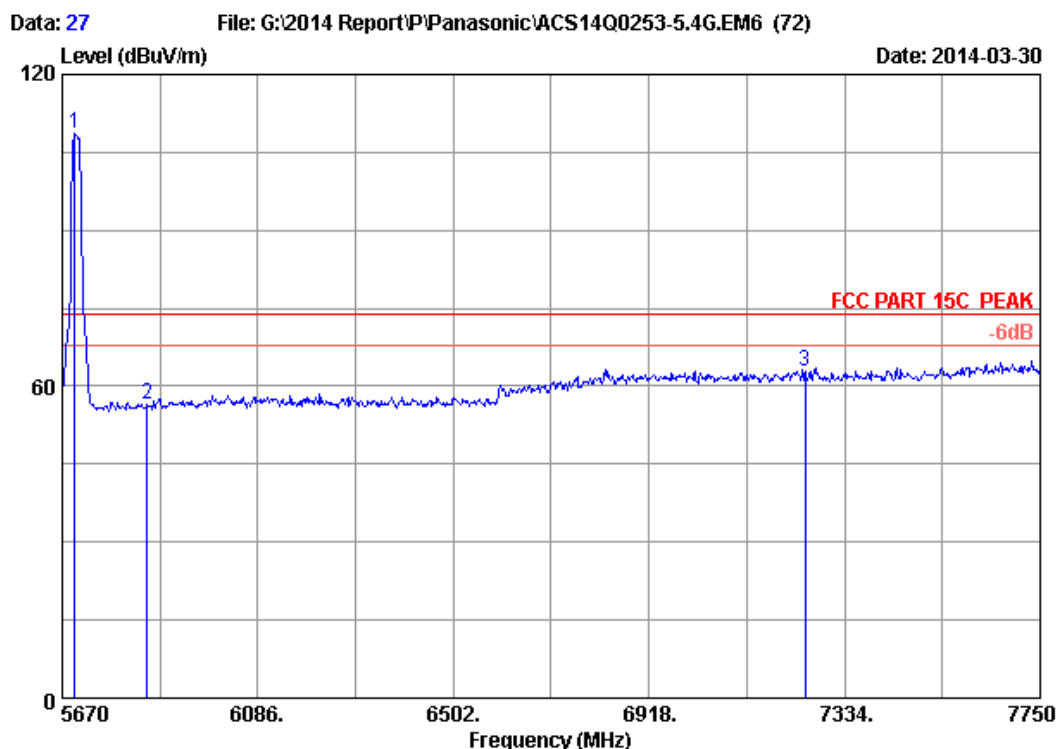
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5701.200	34.08	9.50	35.70	88.64	96.52	54.00	-42.52	Average
2	5850.000	34.14	9.66	35.70	35.97	44.07	54.00	9.93	Average
3	7250.000	36.05	10.99	35.45	37.99	49.58	54.00	4.42	Average
4	7704.240	36.80	11.23	35.36	38.69	51.36	54.00	2.64	Average

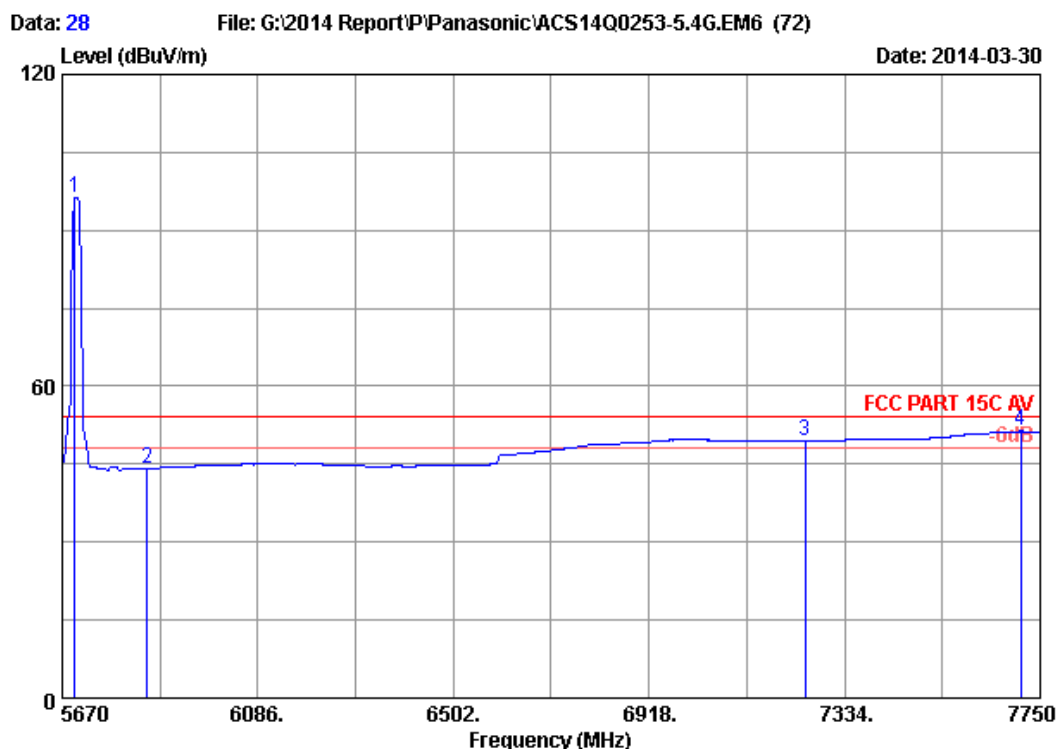
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Cable AMP			Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5697.040	34.08	9.50	35.70	100.72	108.60	74.00	-34.60	Peak
2	5850.000	34.14	9.66	35.70	48.31	56.41	74.00	17.59	Peak
3	7250.000	36.05	10.99	35.45	51.33	62.92	74.00	11.08	Peak

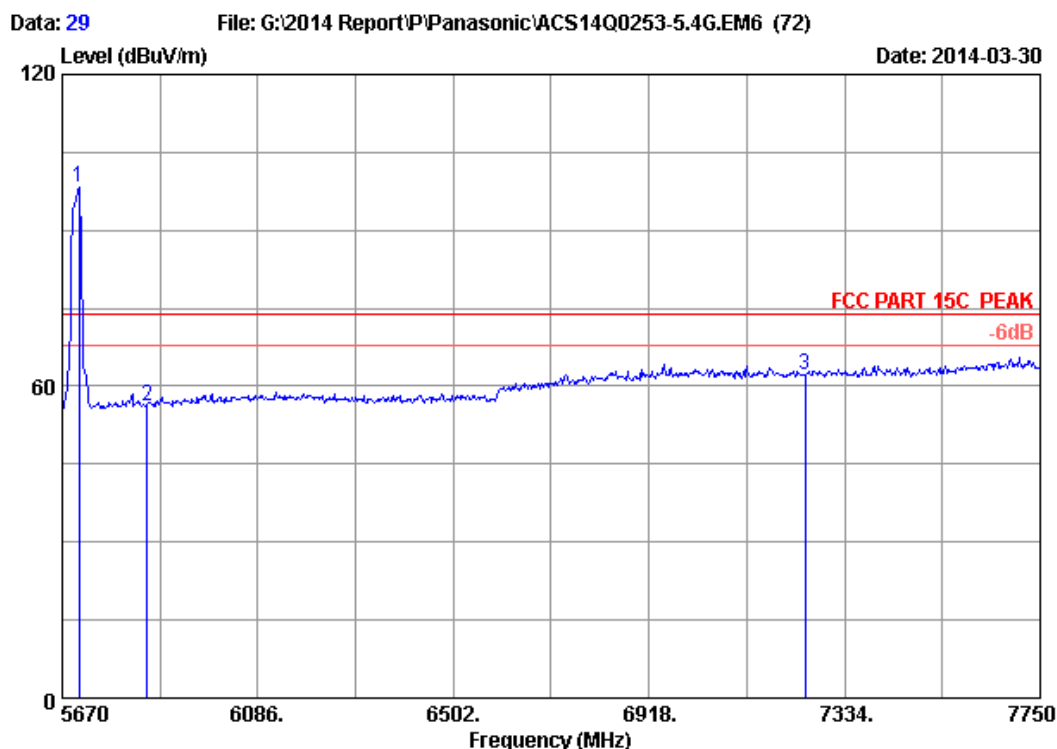
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5697.040	34.08	9.50	35.70	88.49	96.37	54.00	-42.37	Average
2	5850.000	34.14	9.66	35.70	35.93	44.03	54.00	9.97	Average
3	7250.000	36.05	10.99	35.45	38.00	49.59	54.00	4.41	Average
4	7708.400	36.81	11.23	35.36	38.63	51.31	54.00	2.69	Average

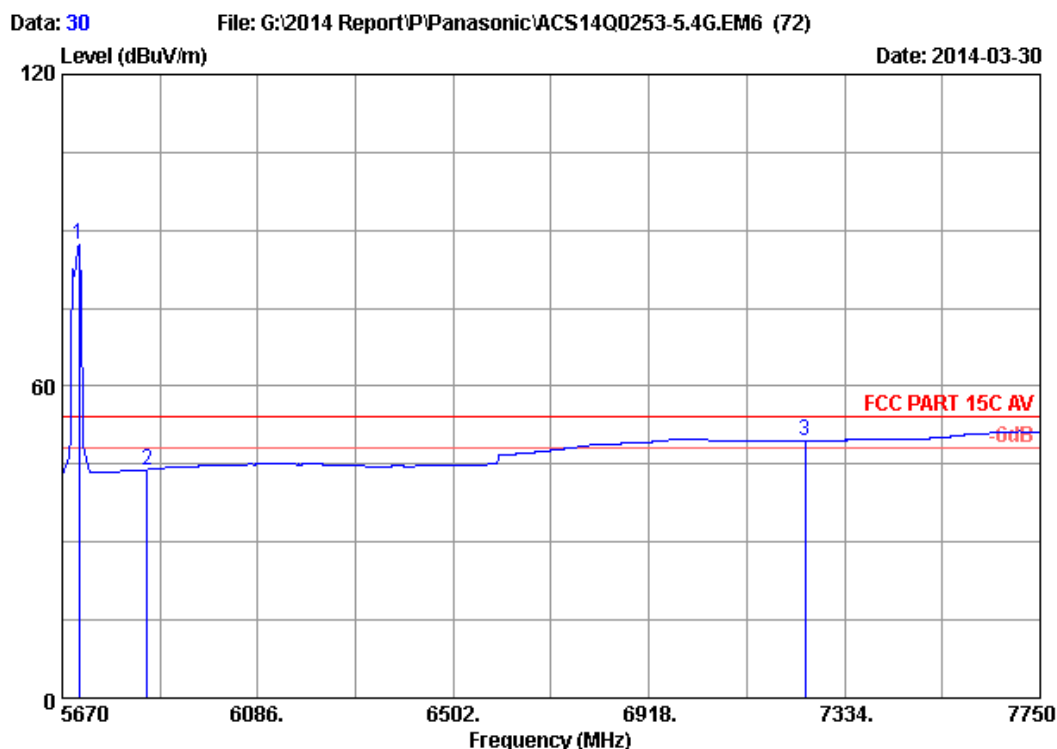
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Cable AMP			Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5705.360	34.08	9.50	35.70	90.28	98.16	74.00	-24.16	Peak
2	5850.000	34.14	9.66	35.70	48.14	56.24	74.00	17.76	Peak
3	7250.000	36.05	10.99	35.45	50.52	62.11	74.00	11.89	Peak

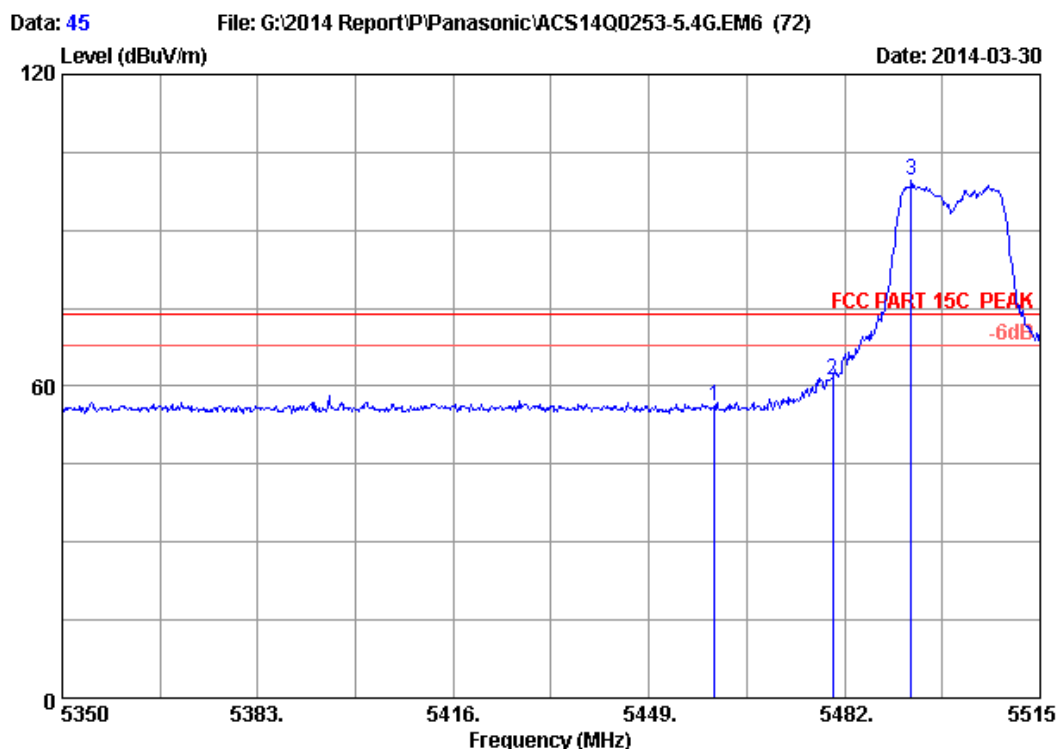
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5700MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5705.360	34.08	9.50	35.70	79.32	87.20	54.00	-33.20	Average
2	5850.000	34.14	9.66	35.70	35.83	43.93	54.00	10.07	Average
3	7250.000	36.05	10.99	35.45	37.98	49.57	54.00	4.43	Average

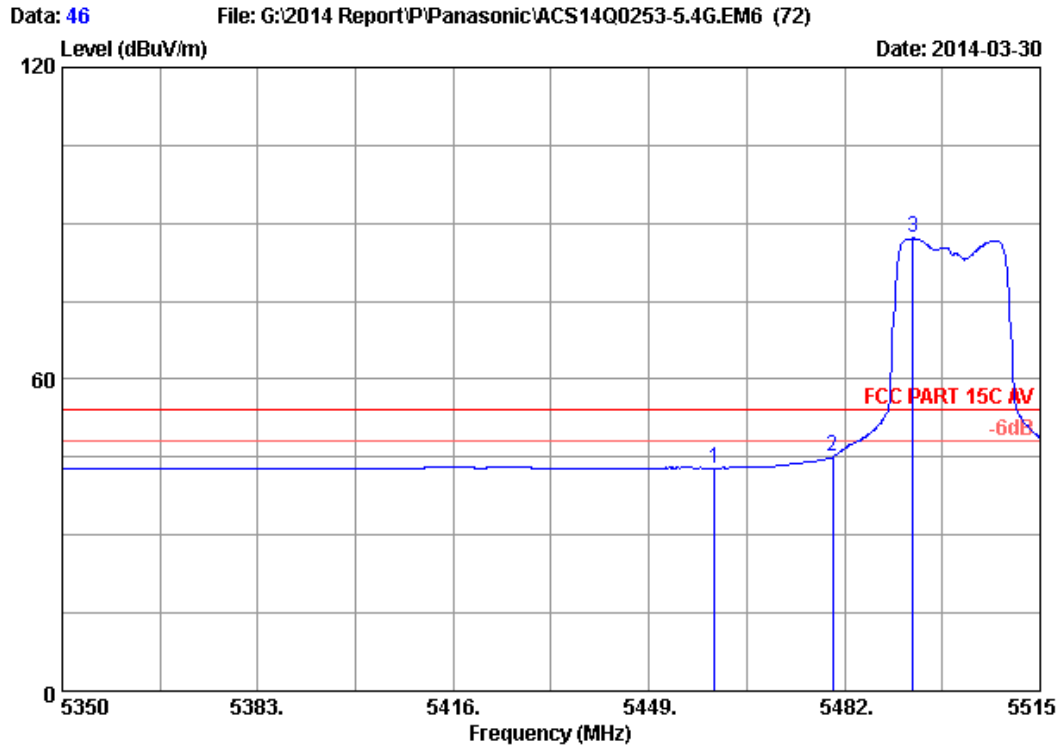
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5500MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.61	56.10	74.00	17.90	Peak
2	5480.000	33.97	9.27	35.70	53.75	61.29	74.00	12.71	Peak
3	5493.220	33.99	9.28	35.70	91.96	99.53	74.00	-25.53	Peak

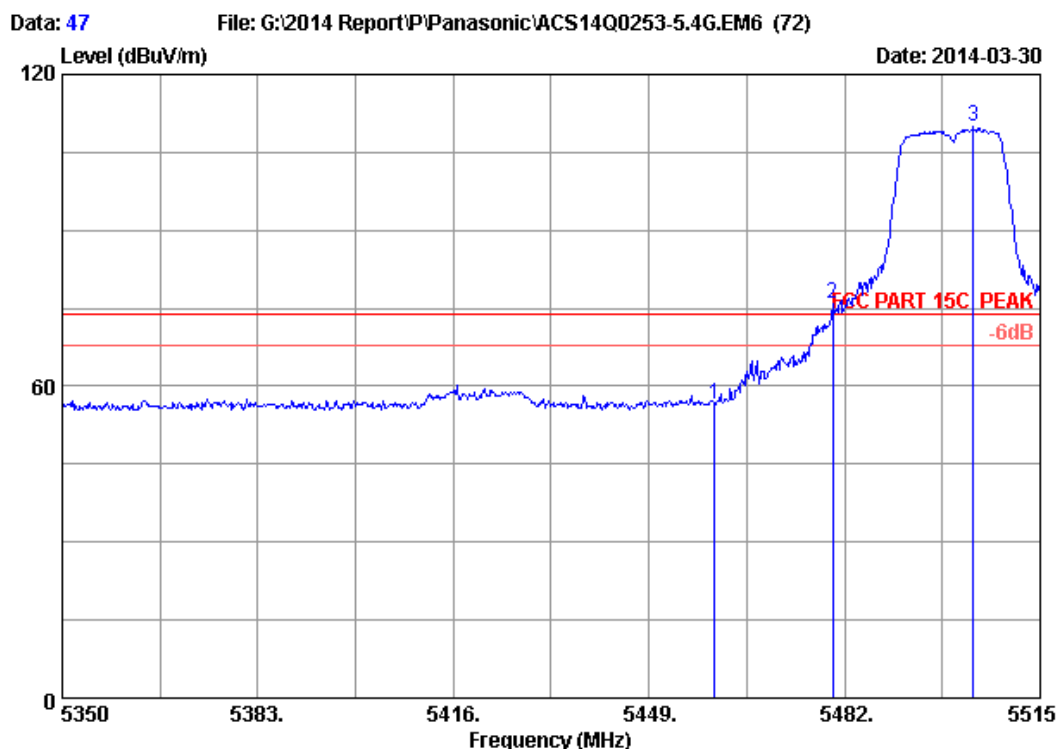
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5500MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	35.39	42.88	54.00	11.12	Average
2	5480.000	33.97	9.27	35.70	37.64	45.18	54.00	8.82	Average
3	5493.550	33.99	9.28	35.70	79.52	87.09	54.00	-33.09	Average

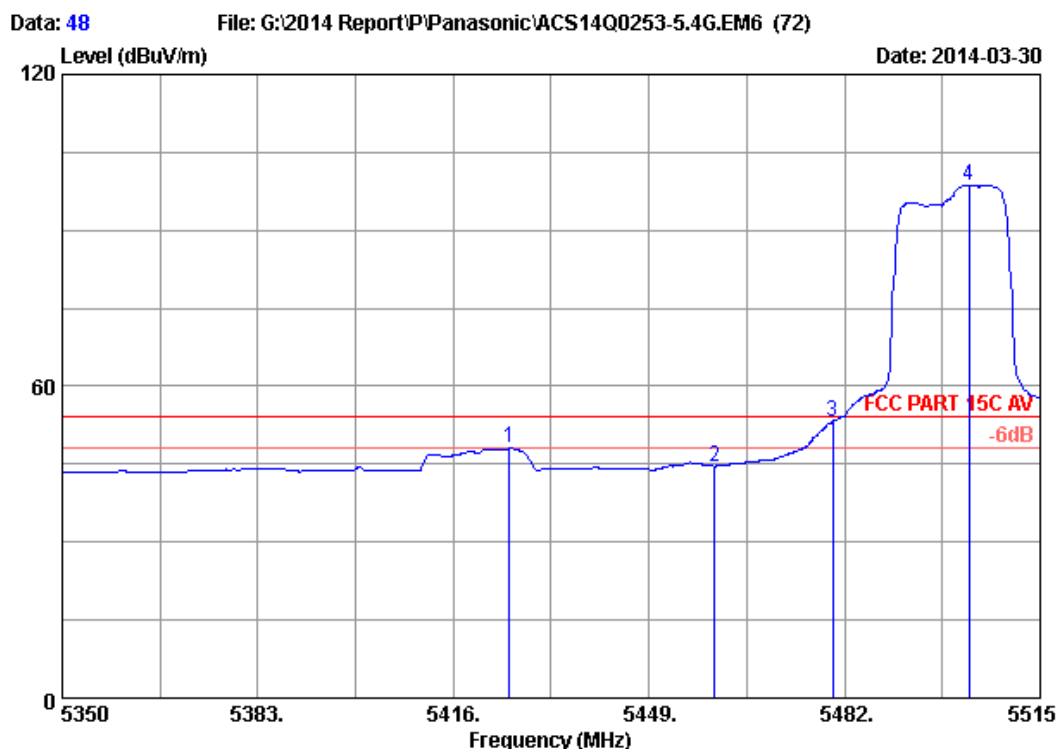
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5500MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.88	56.37	74.00	17.63	Peak
2	5480.000	33.97	9.27	35.70	68.33	75.87	74.00	-1.87	Peak
3	5503.780	34.00	9.29	35.70	102.49	110.08	74.00	-36.08	Peak

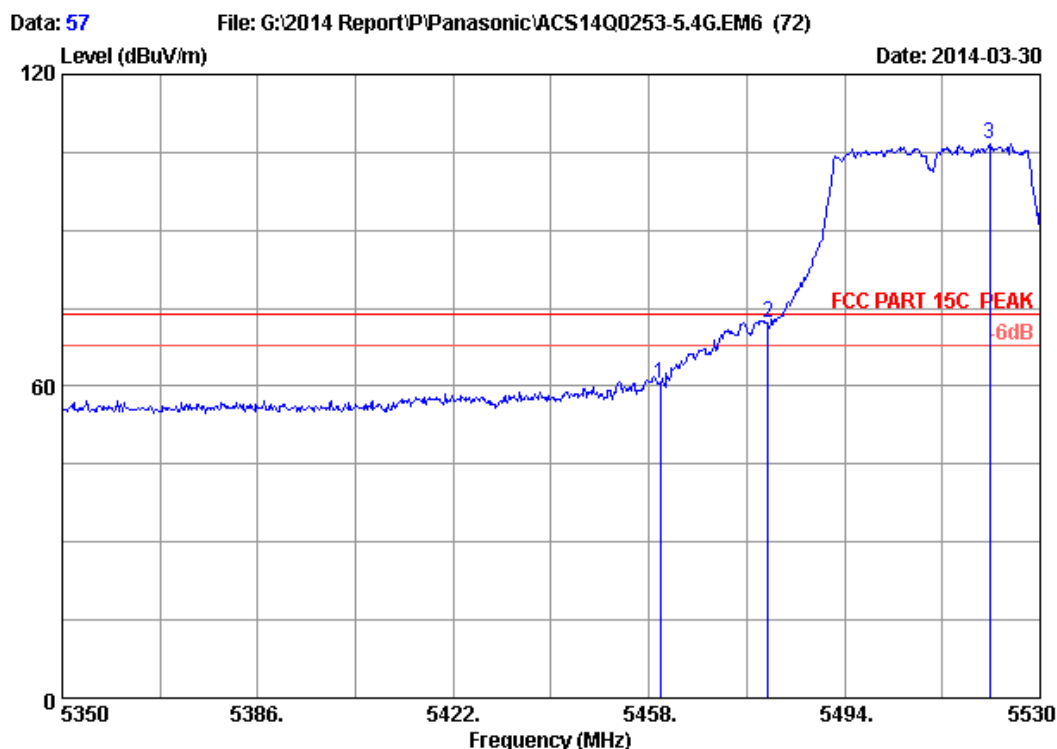
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5500MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5425.405	33.88	9.21	35.70	40.61	48.00	54.00	6.00	Average
2	5460.000	33.94	9.25	35.70	37.07	44.56	54.00	9.44	Average
3	5480.000	33.97	9.27	35.70	45.77	53.31	54.00	0.69	Average
4	5502.955	34.00	9.29	35.70	91.12	98.71	54.00	-44.71	Average

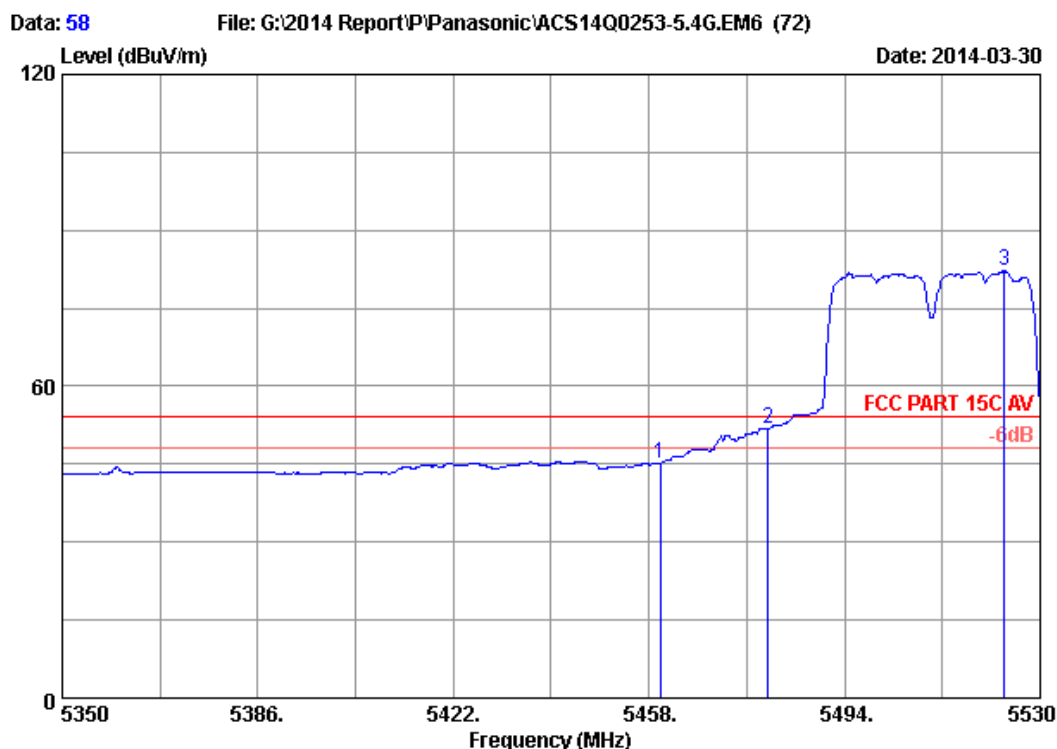
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5510MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	52.96	60.45	74.00	13.55	Peak
2	5480.000	33.97	9.27	35.70	64.64	72.18	74.00	1.82	Peak
3	5520.640	34.01	9.31	35.70	98.92	106.54	74.00	-32.54	Peak

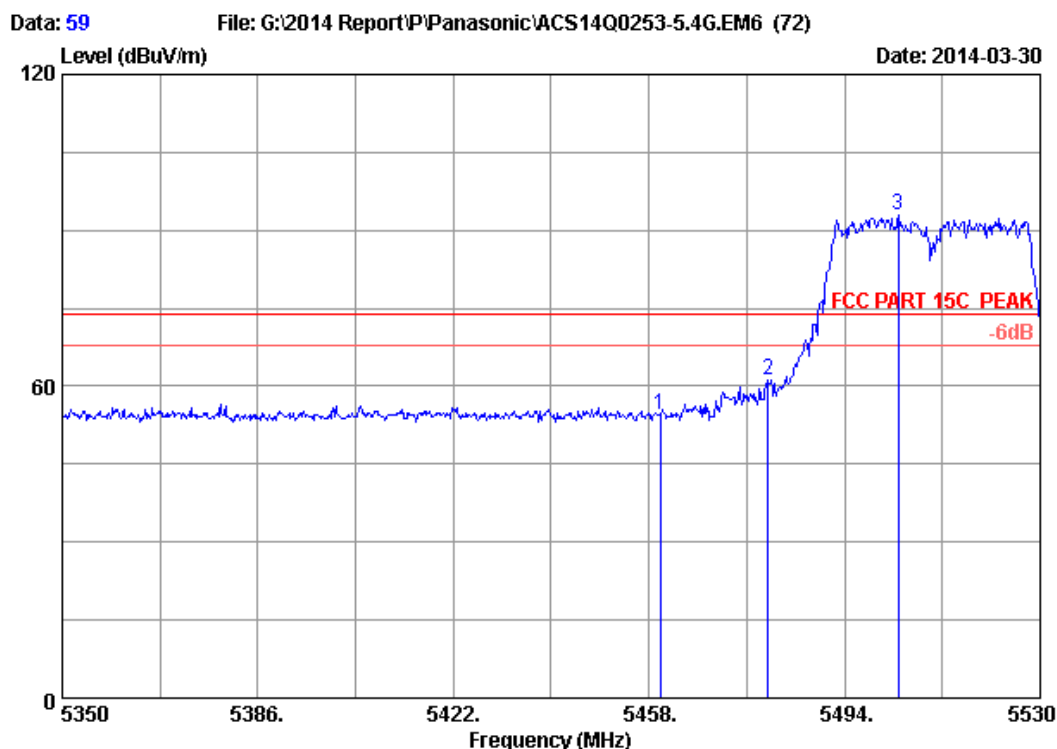
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5510MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	37.64	45.13	54.00	8.87	Average
2	5480.000	33.97	9.27	35.70	44.26	51.80	54.00	2.20	Average
3	5523.340	34.01	9.31	35.70	74.50	82.12	54.00	-28.12	Average

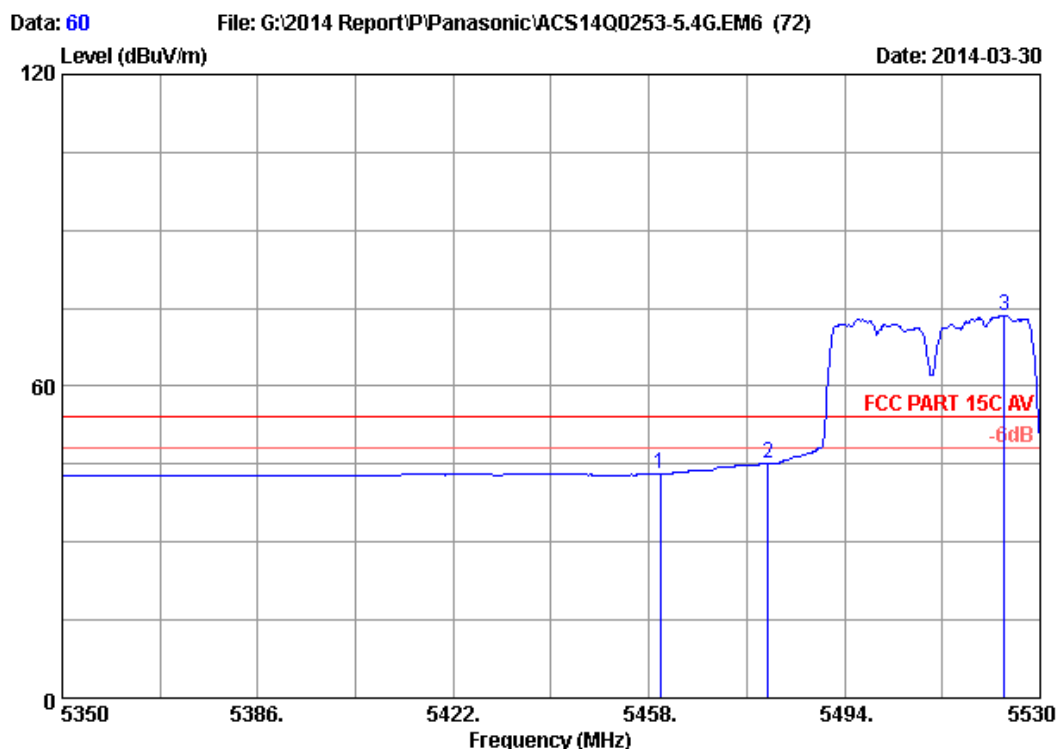
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5510MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	46.94	54.43	74.00	19.57	Peak
2	5480.000	33.97	9.27	35.70	53.75	61.29	74.00	12.71	Peak
3	5503.900	34.00	9.29	35.70	85.50	93.09	74.00	-19.09	Peak

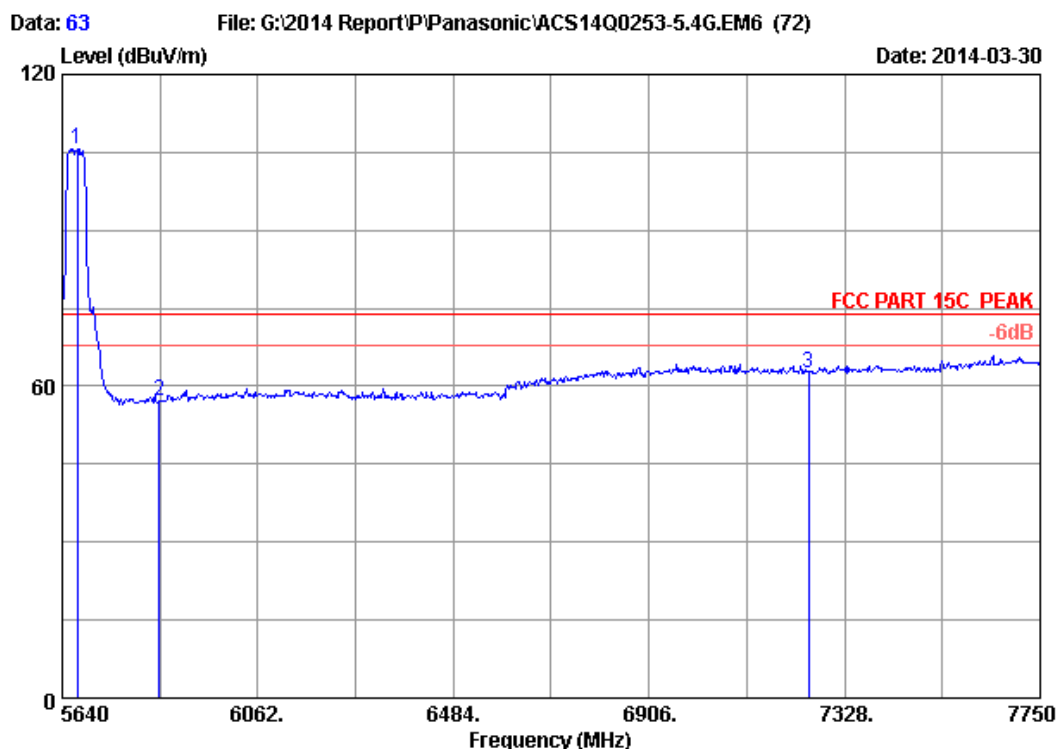
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5510MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	35.51	43.00	54.00	11.00	Average
2	5480.000	33.97	9.27	35.70	37.64	45.18	54.00	8.82	Average
3	5523.340	34.01	9.31	35.70	66.07	73.69	54.00	-19.69	Average

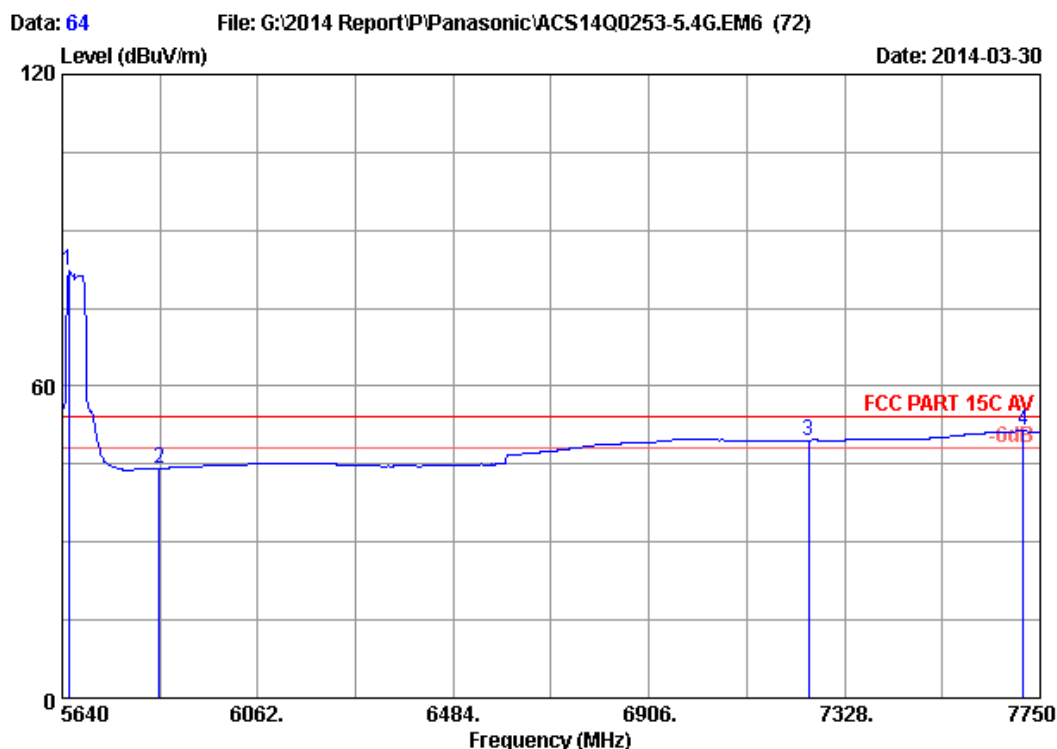
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5670MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5671.650	34.07	9.47	35.70	97.90	105.74	74.00	-31.74	Peak
2	5850.000	34.14	9.66	35.70	48.99	57.09	74.00	16.91	Peak
3	7250.000	36.05	10.99	35.45	51.08	62.67	74.00	11.33	Peak

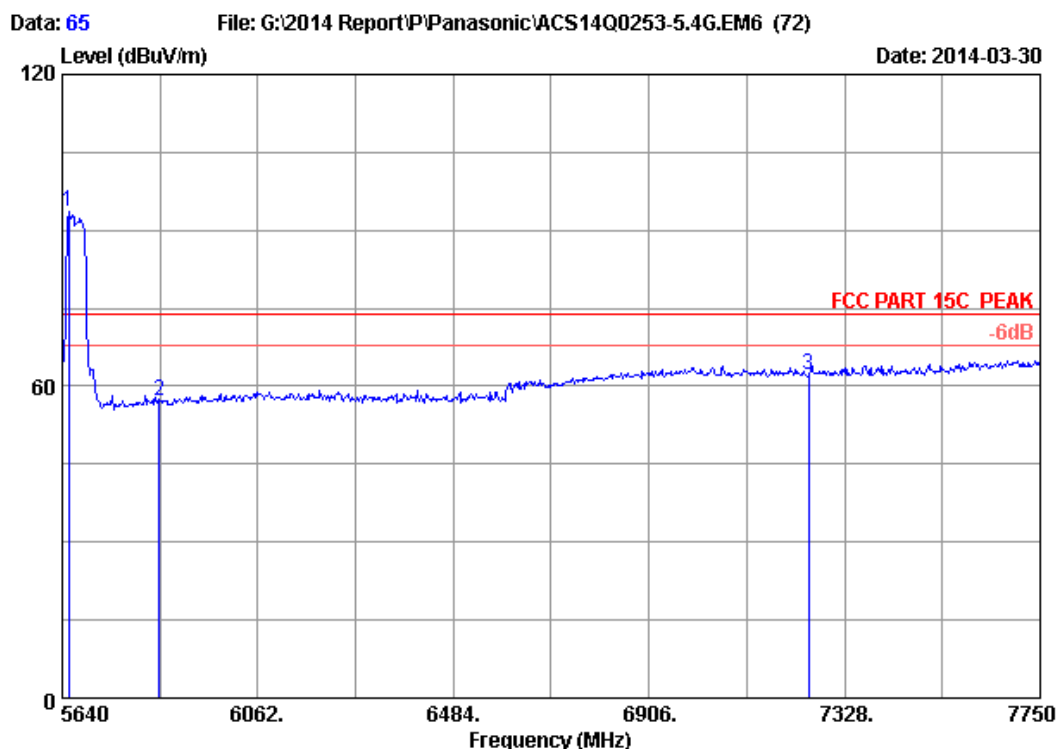
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5670MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5654.770	34.06	9.45	35.70	74.27	82.08	54.00	-28.08	Average
2	5850.000	34.14	9.66	35.70	36.05	44.15	54.00	9.85	Average
3	7250.000	36.05	10.99	35.45	38.03	49.62	54.00	4.38	Average
4	7714.130	36.81	11.23	35.36	38.68	51.36	54.00	2.64	Average

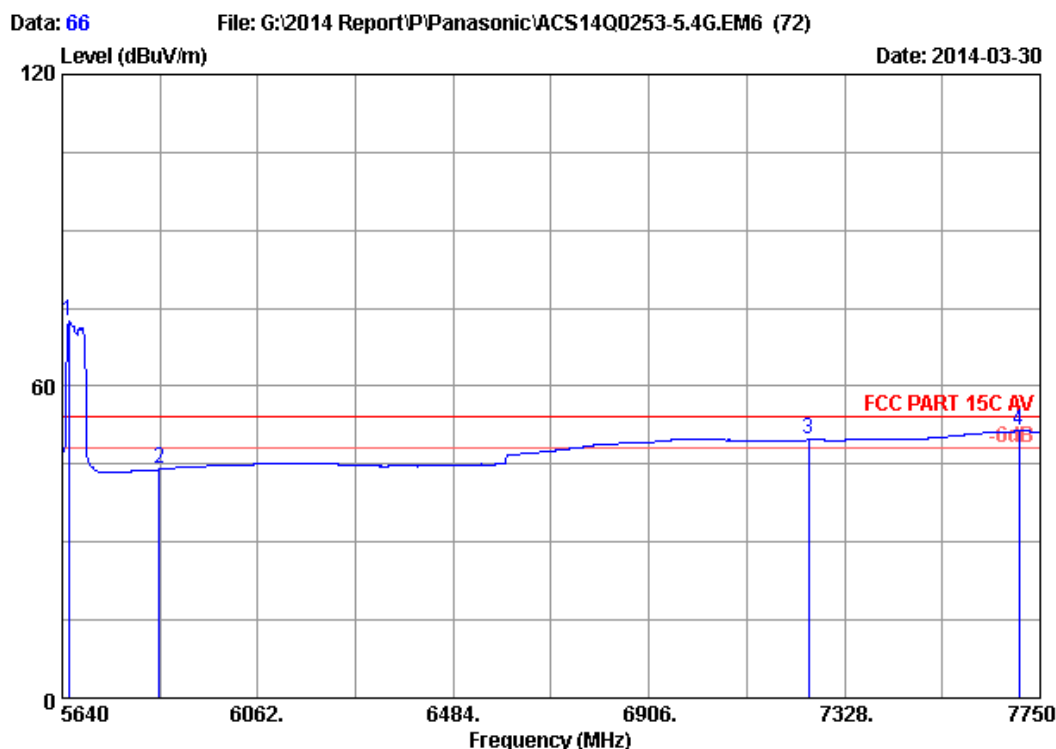
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5670MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5654.770	34.06	9.45	35.70	85.72	93.53	74.00	-19.53	Peak
2	5850.000	34.14	9.66	35.70	49.01	57.11	74.00	16.89	Peak
3	7250.000	36.05	10.99	35.45	50.74	62.33	74.00	11.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5670MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5654.770	34.06	9.45	35.70	64.67	72.48	54.00	-18.48	Average
2	5850.000	34.14	9.66	35.70	35.88	43.98	54.00	10.02	Average
3	7250.000	36.05	10.99	35.45	38.05	49.64	54.00	4.36	Average
4	7703.580	36.80	11.23	35.36	38.74	51.41	54.00	2.59	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

6. 20dB & 26dB Bandwidth Test

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Antenna	EMCO	3115	9607-4877	May.08, 13	1Year
3.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 13	1 Year

6.2.Limit

No limit

6.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300kHz RBW and 1 MHz VBW. The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

6.4.Test Results

5150-5250MHz:
20dB bandwidth

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	20dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5180	18.48	18.10	N/A
	5200	17.98	17.87	N/A
	5240	18.34	18.05	N/A
11n HT20	5180	19.34	18.82	N/A
	5200	19.38	19.19	N/A
	5240	19.48	19.23	N/A
11n HT40	5190	39.21	40.39	N/A
	5230	39.56	39.41	N/A
Conclusion : PASS				

26dB bandwidth

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	26dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5180	20.12	19.29	N/A
	5200	19.78	19.54	N/A
	5240	19.75	19.51	N/A
11n HT20	5180	20.85	20.52	N/A
	5200	20.88	20.81	N/A
	5240	20.83	20.48	N/A
11n HT40	5190	44.23	43.37	N/A
	5230	43.69	44.31	N/A
Conclusion : PASS				

5250-5350MHz
20dB bandwidth

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	20dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5260	18.24	18.13	N/A
	5300	18.03	18.09	N/A
	5320	17.84	18.04	N/A
11n HT20	5260	19.17	19.32	N/A
	5300	18.83	18.86	N/A
	5320	19.11	19.18	N/A
11n HT40	5270	39.72	39.85	N/A
	5310	38.36	38.85	N/A
Conclusion : PASS				

26dB bandwidth

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	26dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5260	20.06	19.41	N/A
	5300	19.65	19.63	N/A
	5320	19.64	19.82	N/A
11n HT20	5260	20.52	20.73	N/A
	5300	20.49	20.55	N/A
	5320	20.82	20.42	N/A
11n HT40	5270	44.66	46.35	N/A
	5310	42.89	43.59	N/A
Conclusion : PASS				

5470-5725MHz:
20dB bandwidth

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	20dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5500	18.24	18.13	N/A
	5600	18.07	18.02	N/A
	5700	18.31	17.92	N/A
11n HT20	5500	19.44	19.39	N/A
	5600	19.41	19.36	N/A
	5700	19.55	19.33	N/A
11n HT40	5510	38.82	40.05	N/A
	5670	39.43	40.40	N/A
Conclusion : PASS				

26dB bandwidth

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

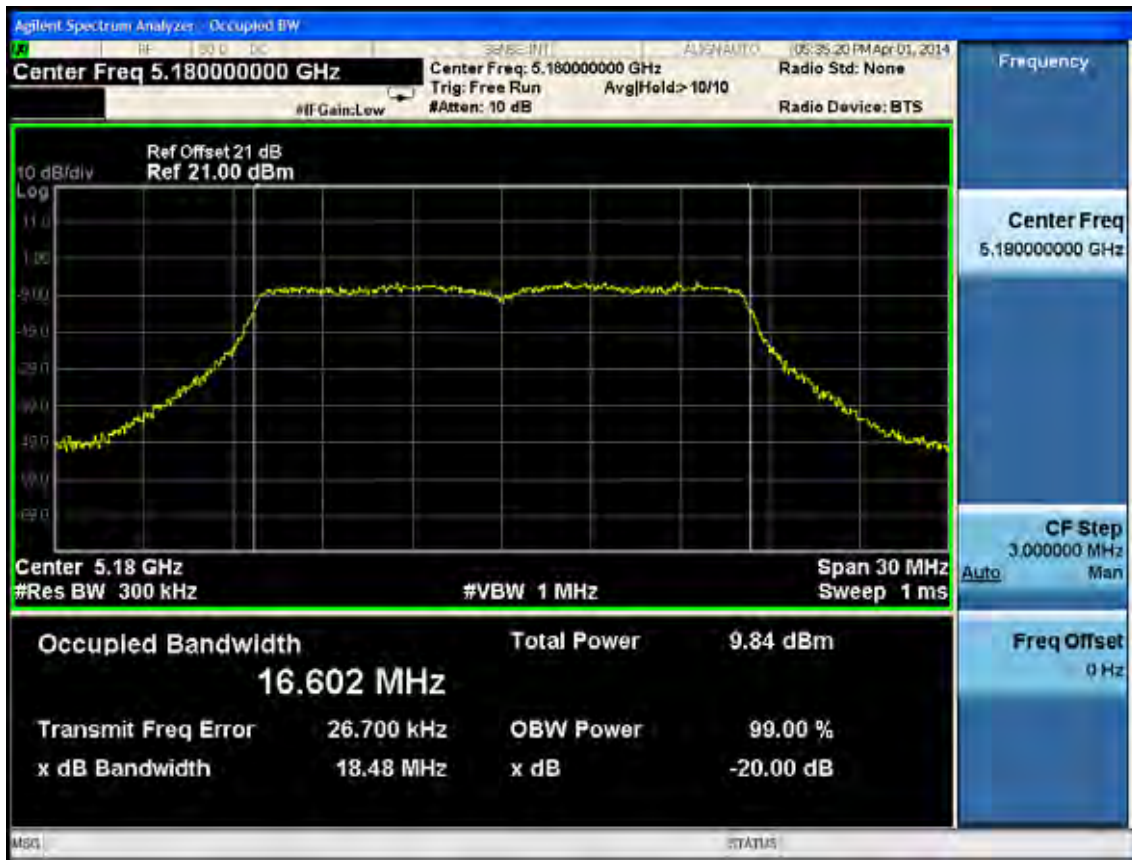
Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	26dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5500	19.63	19.58	N/A
	5600	19.93	19.57	N/A
	5700	20.10	19.36	N/A
11n HT20	5500	20.47	20.87	N/A
	5600	21.02	20.63	N/A
	5700	21.04	21.14	N/A
11n HT40	5510	42.31	44.72	N/A
	5670	43.53	44.46	N/A
Conclusion : PASS				

(5150-5250MHz) 20dB bandwidth:

ANT 0

11a

5180MHz



5200MHz

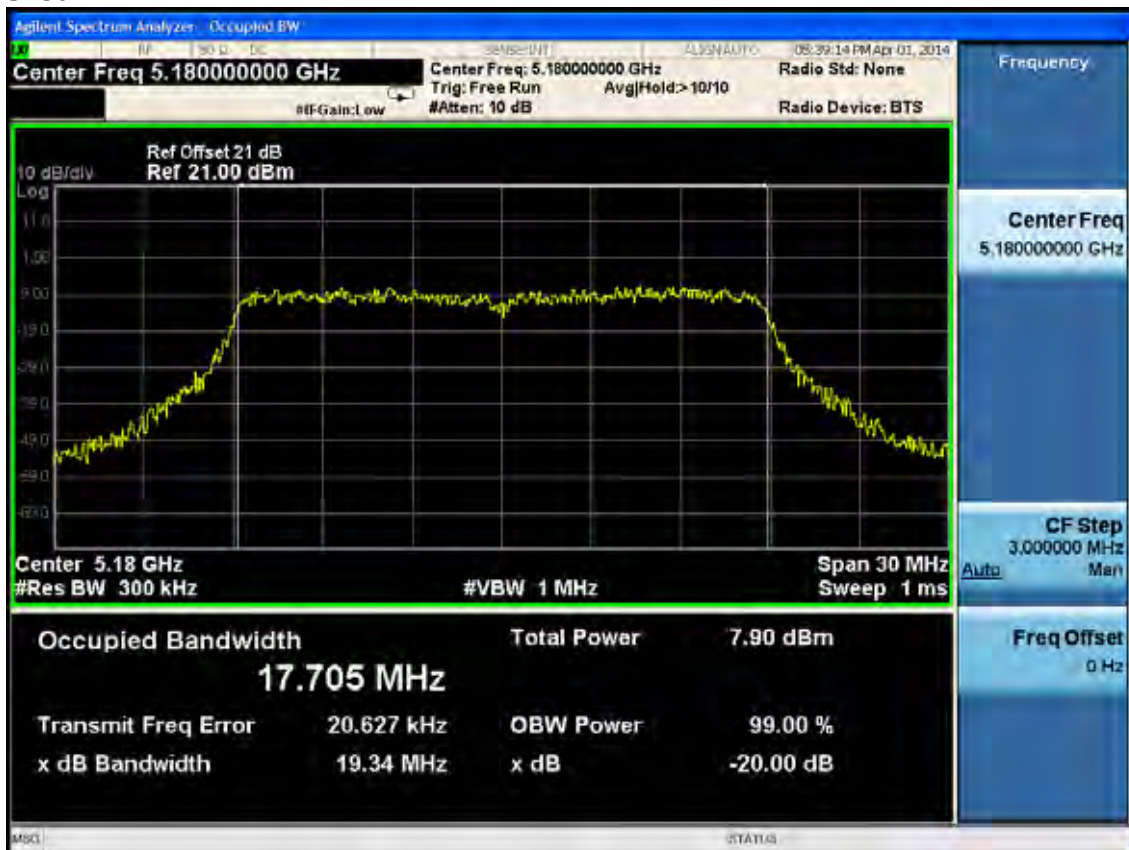


5240MHz

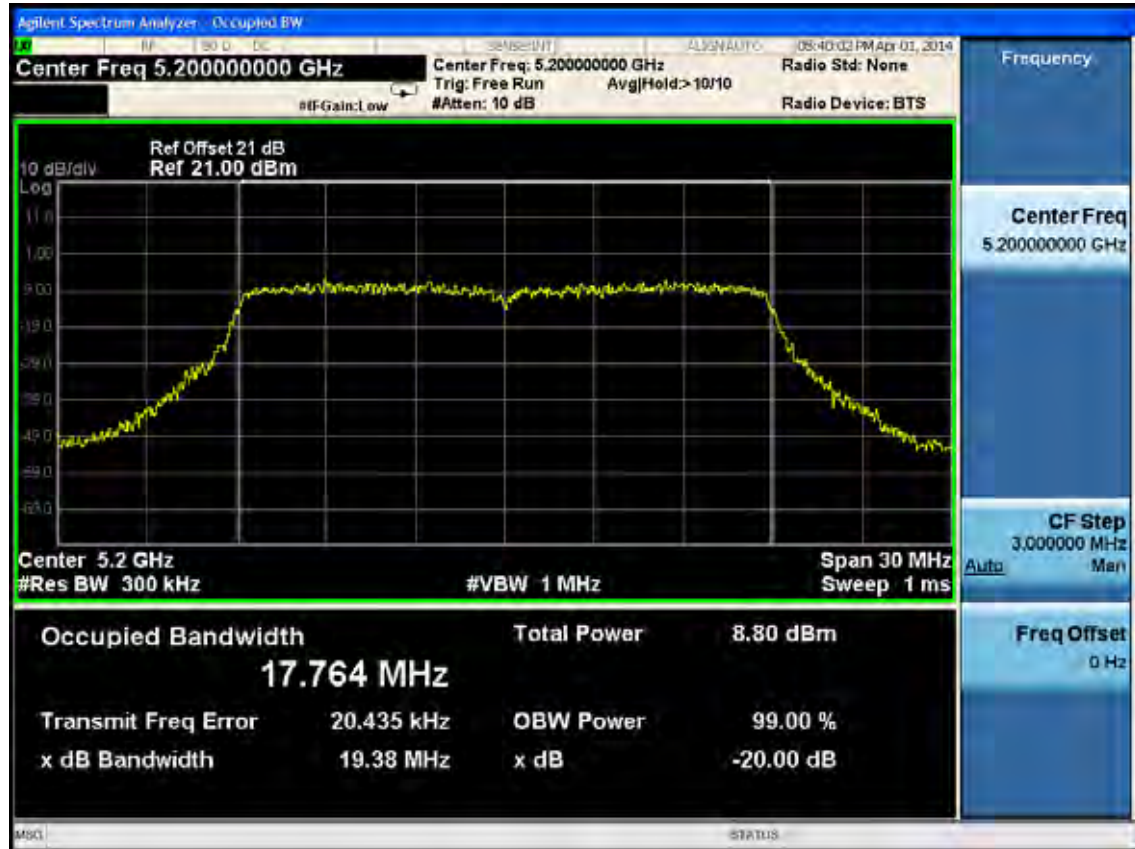


11n HT20

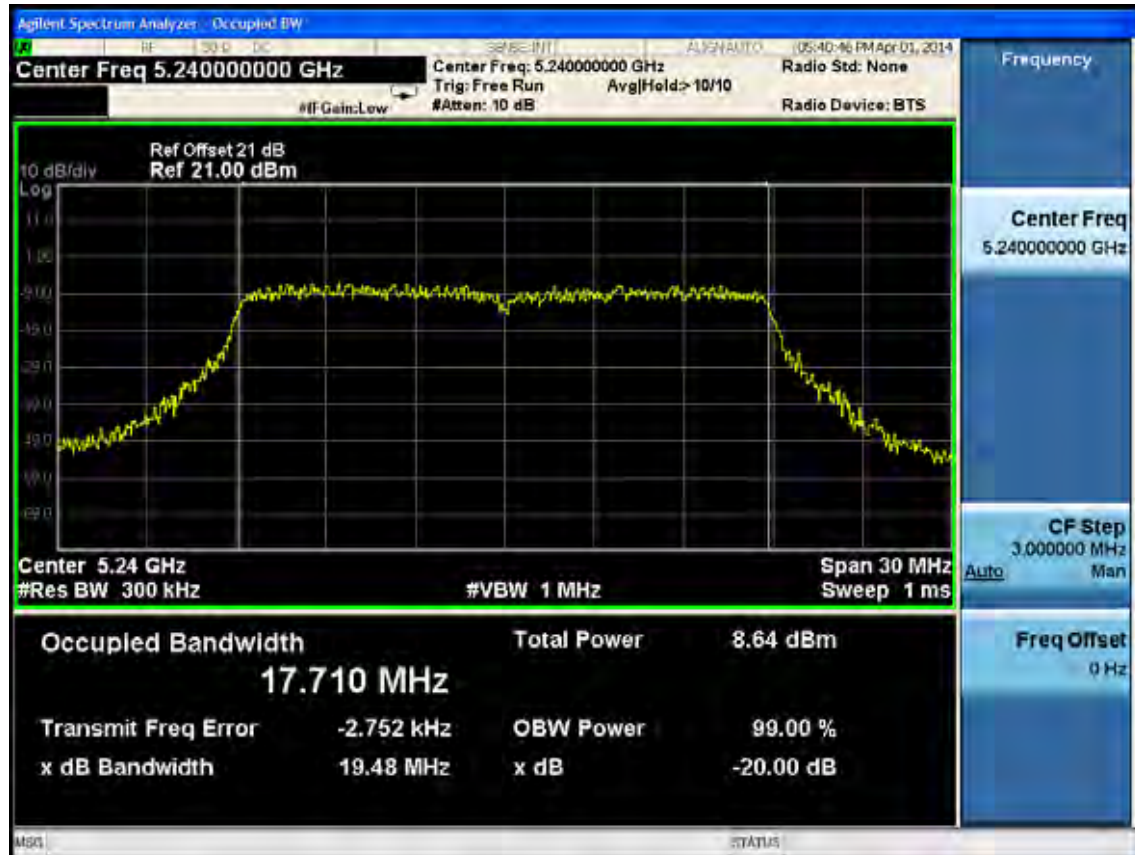
5180MHz



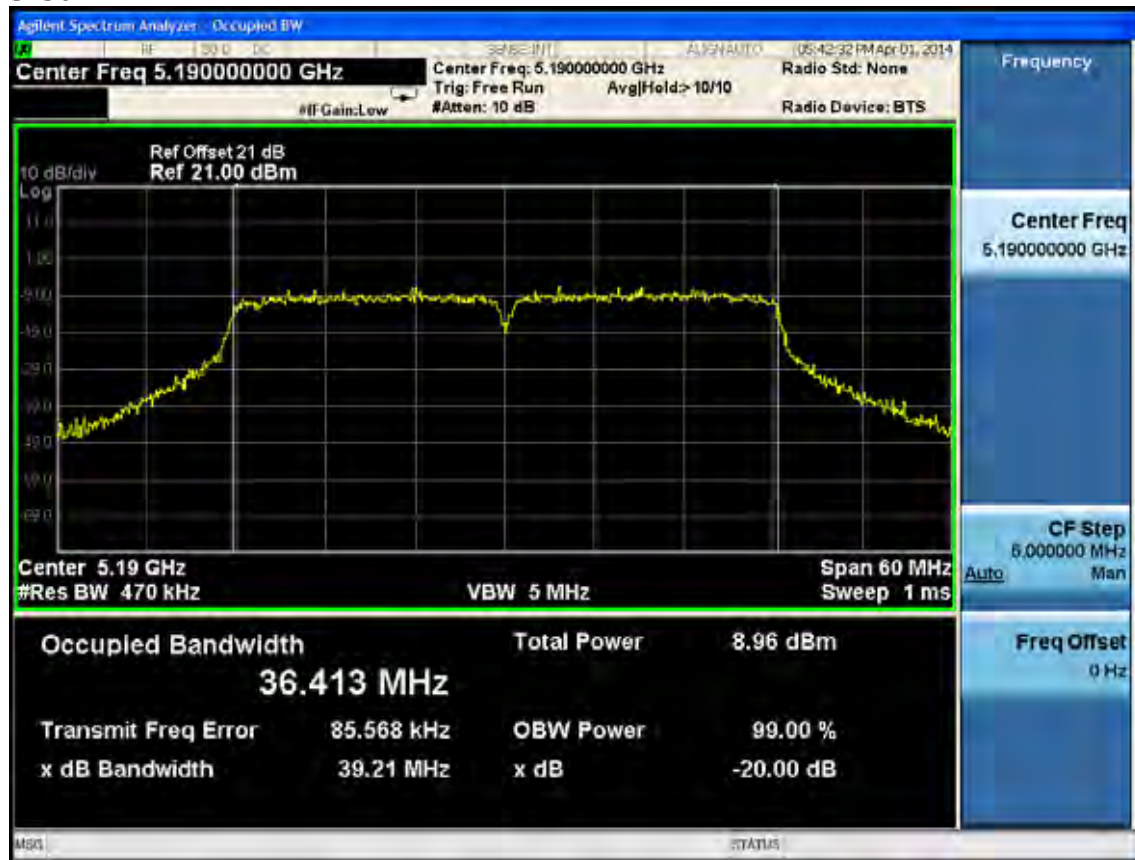
5200MHz



5240MHz



11n HT40
5190MHz



5230MHz



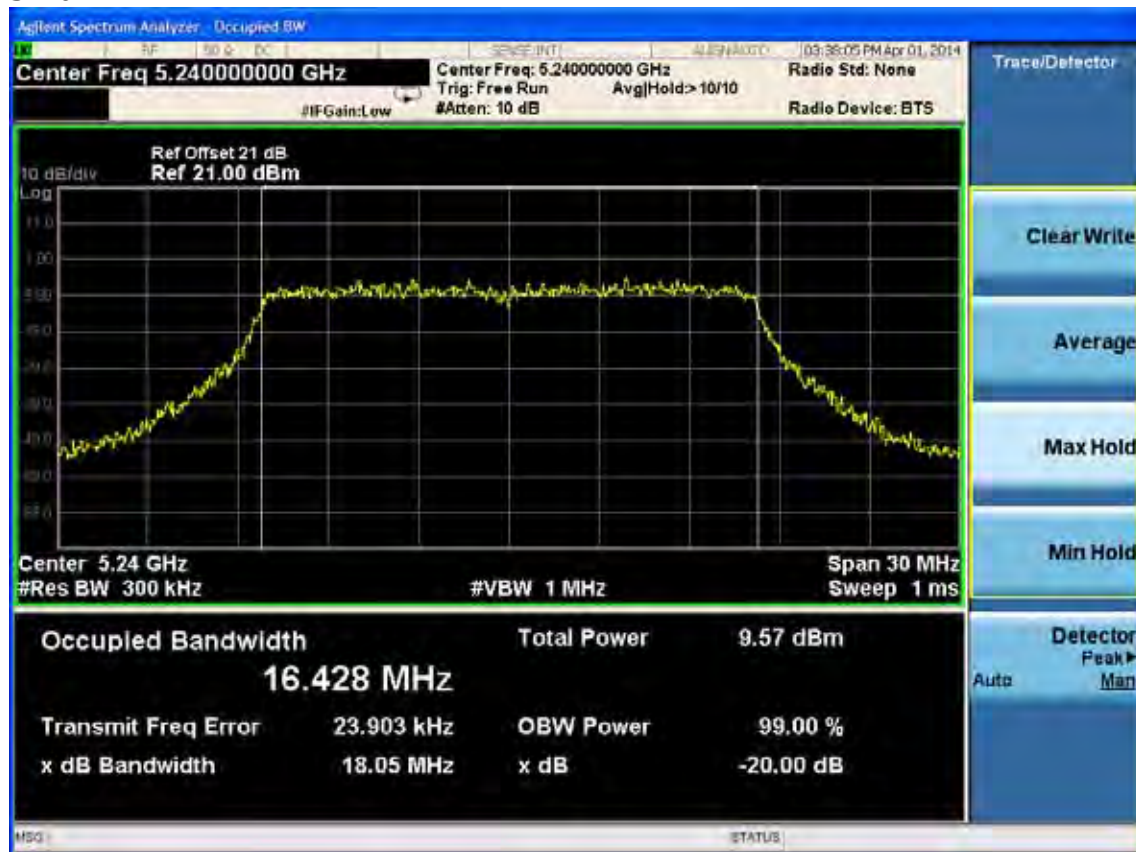
ANT 1
11a
5180MHz



5200MHz

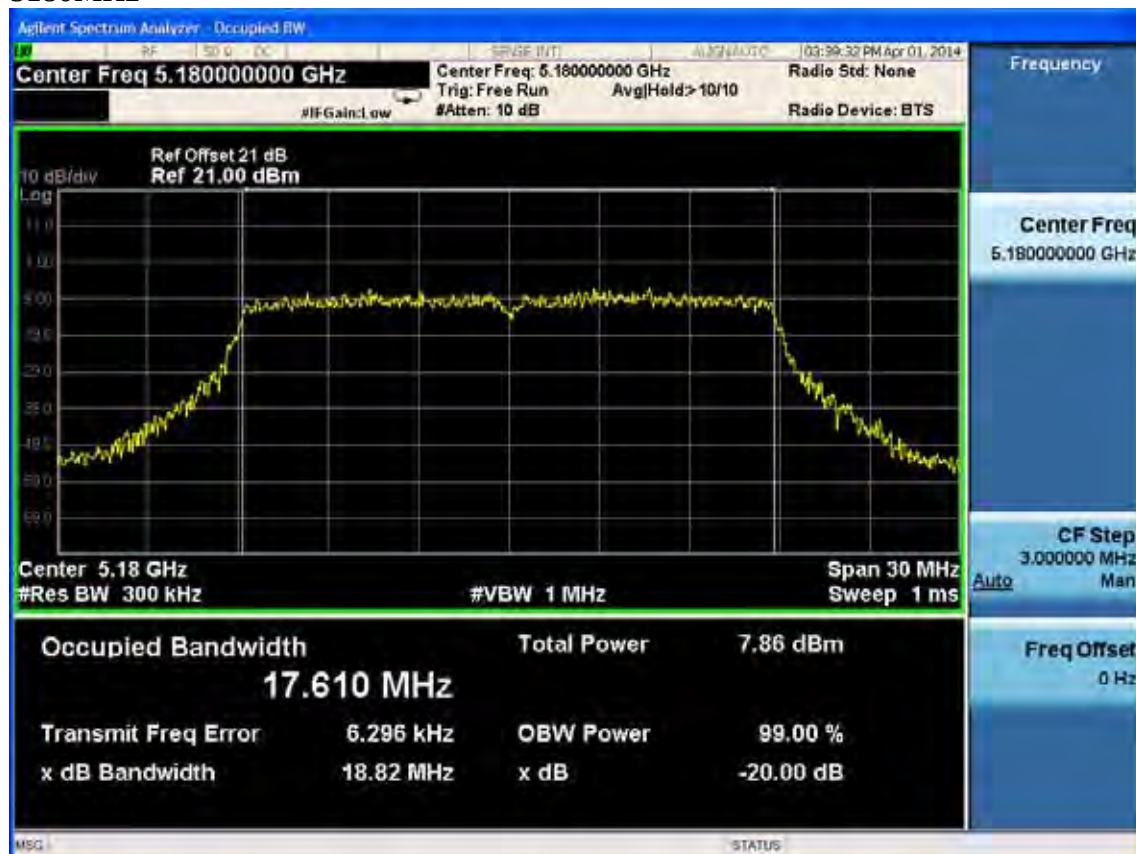


5240MHz

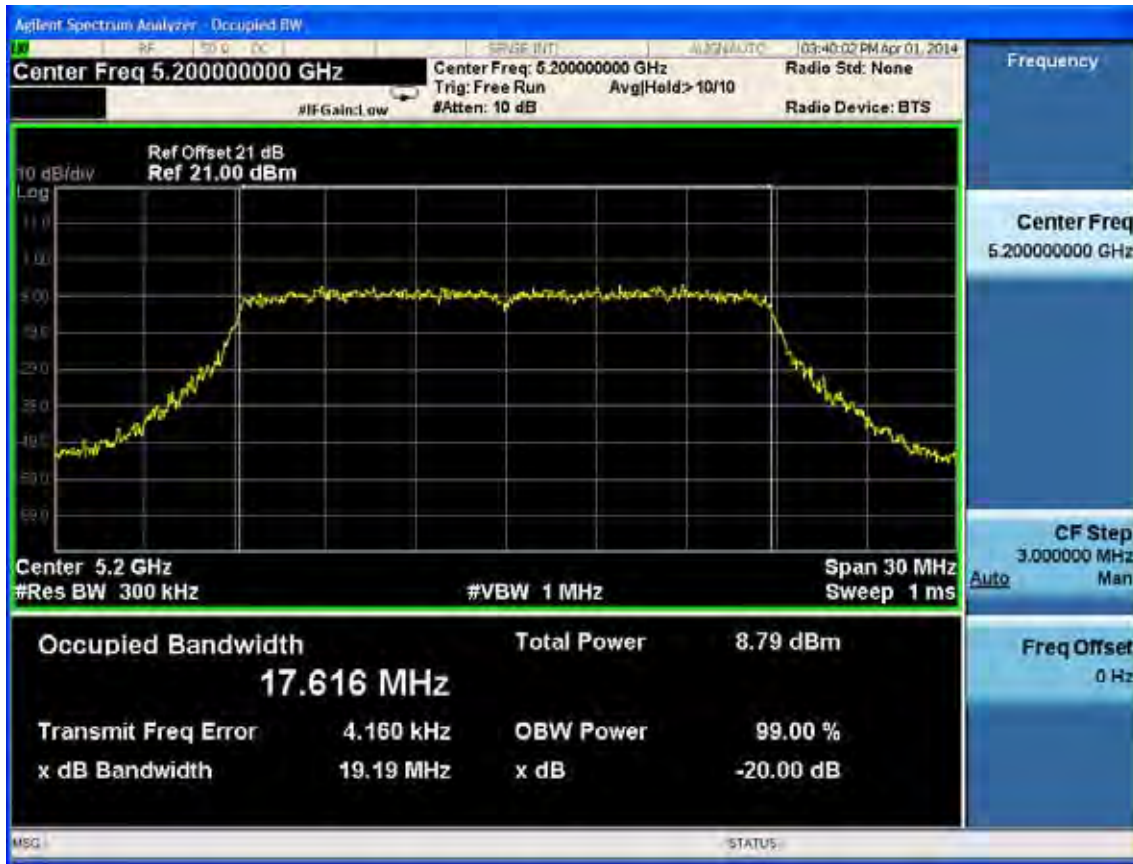


11n HT20

5180MHz



5200MHz

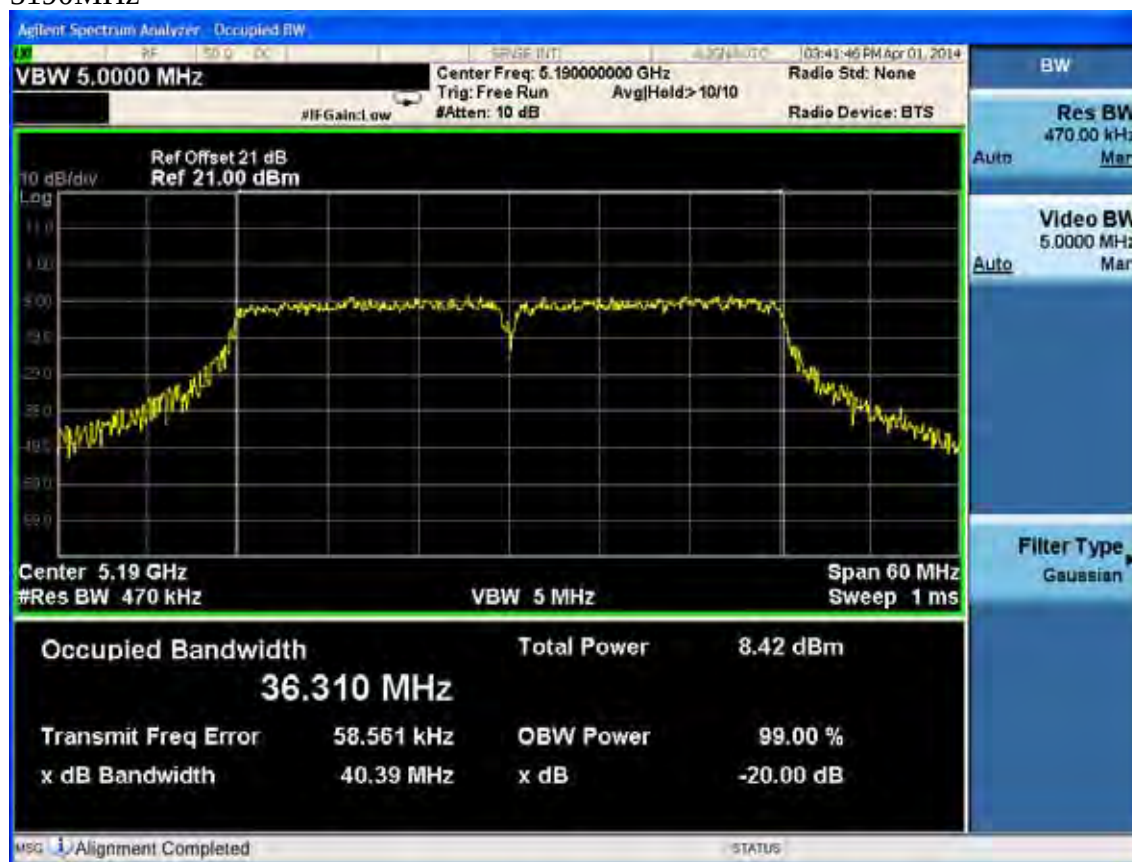


5240MHz

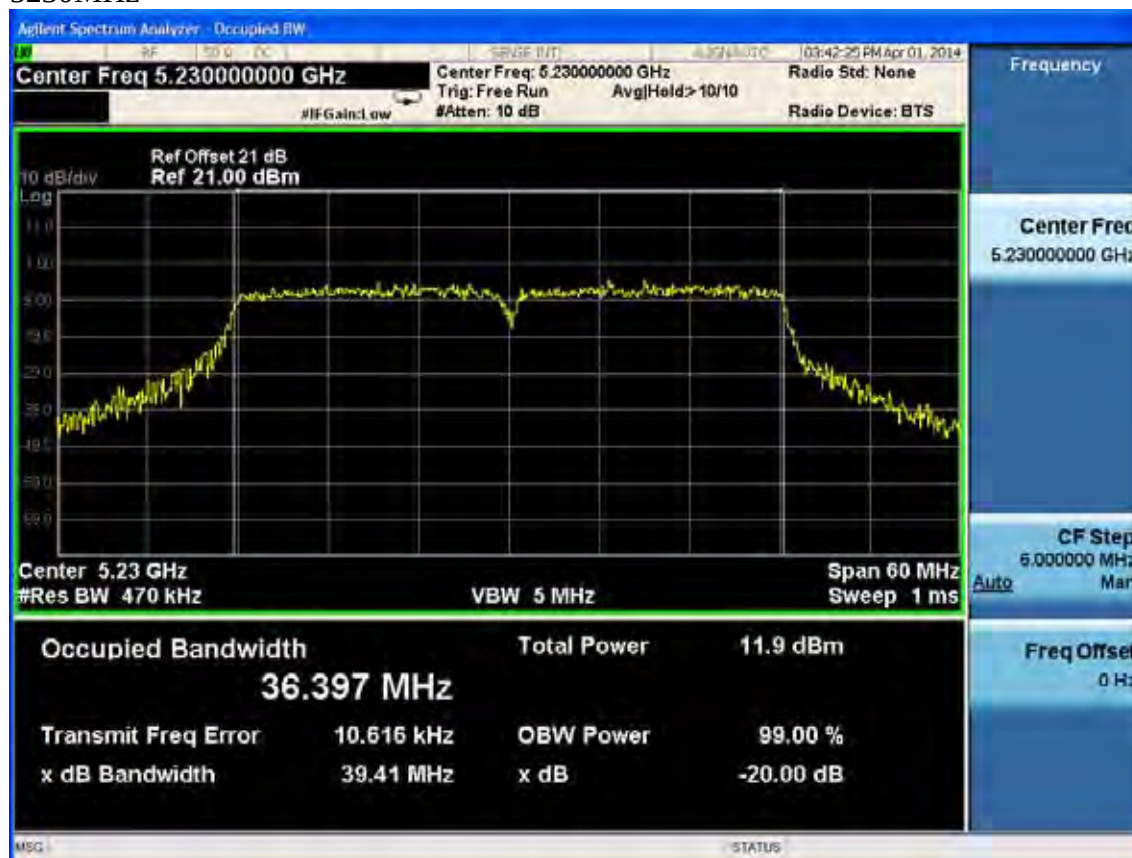


11n HT40

5190MHz



5230MHz

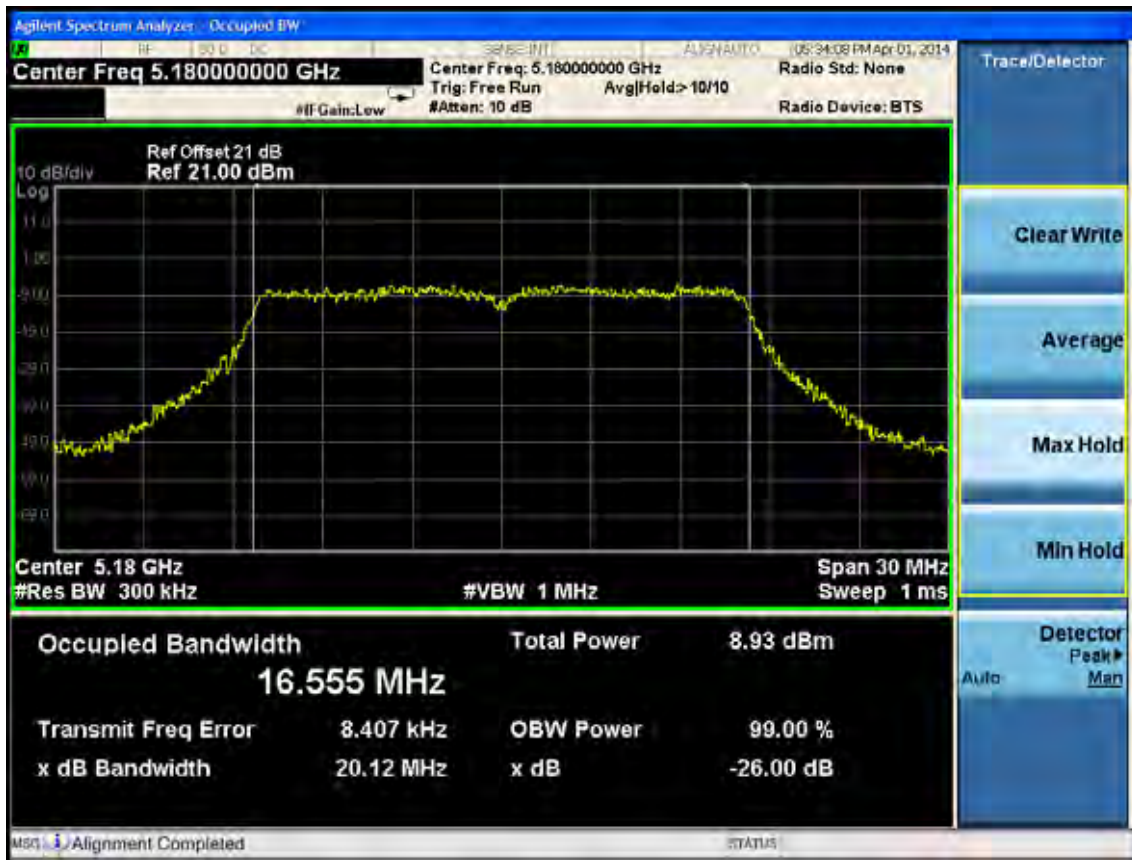


(5150-5250MHz) 26dB bandwidth:

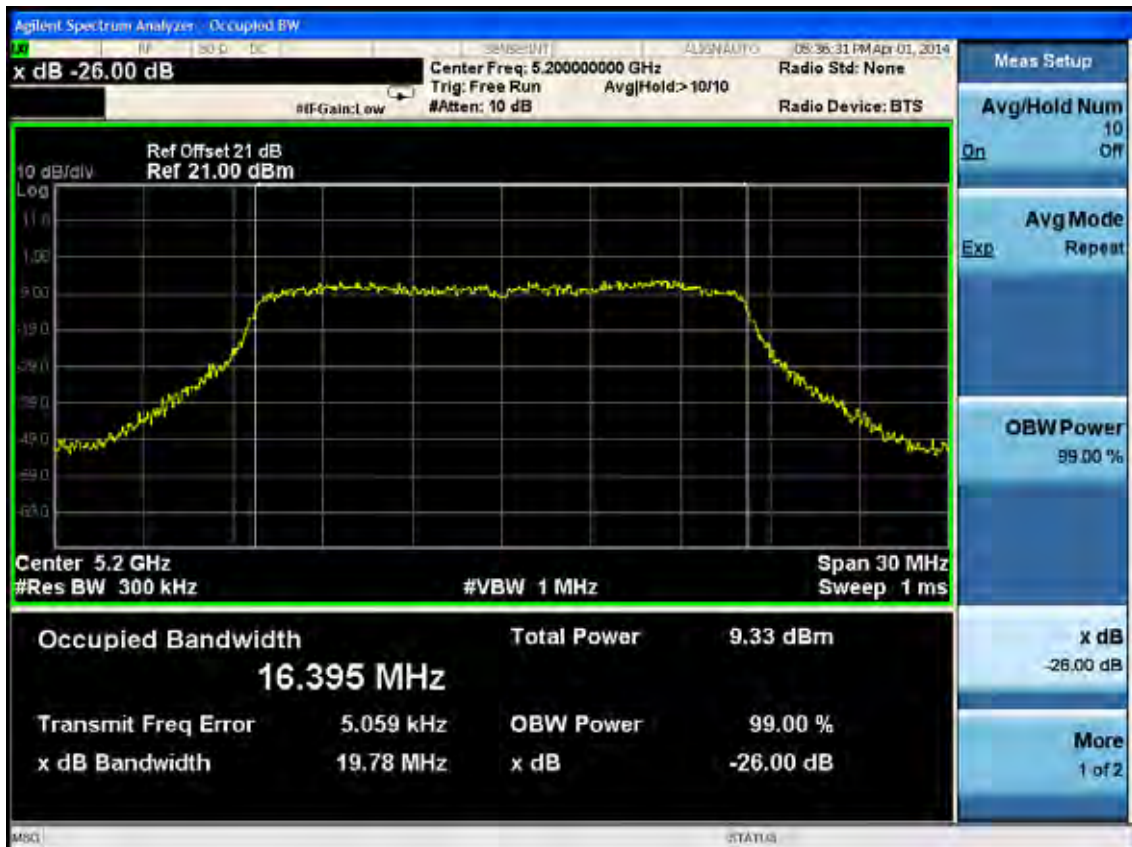
ANT 0

11a

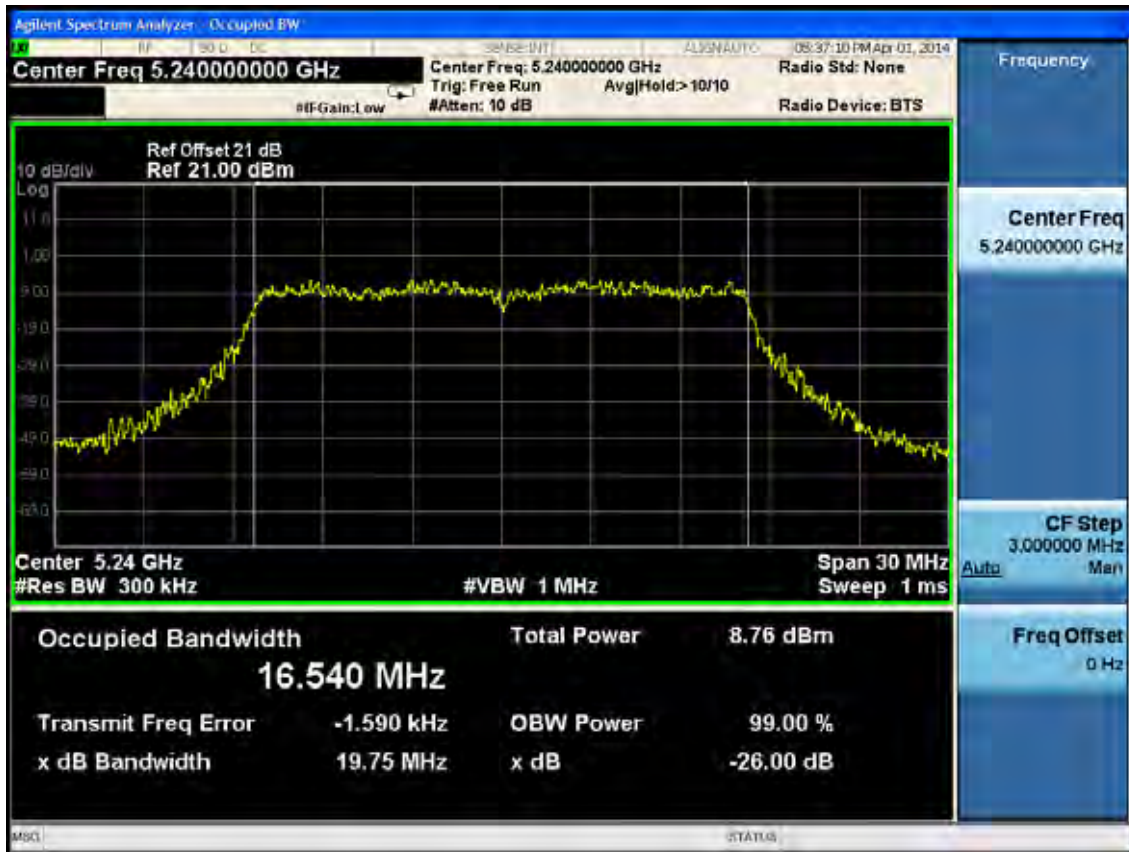
5180MHz



5200MHz

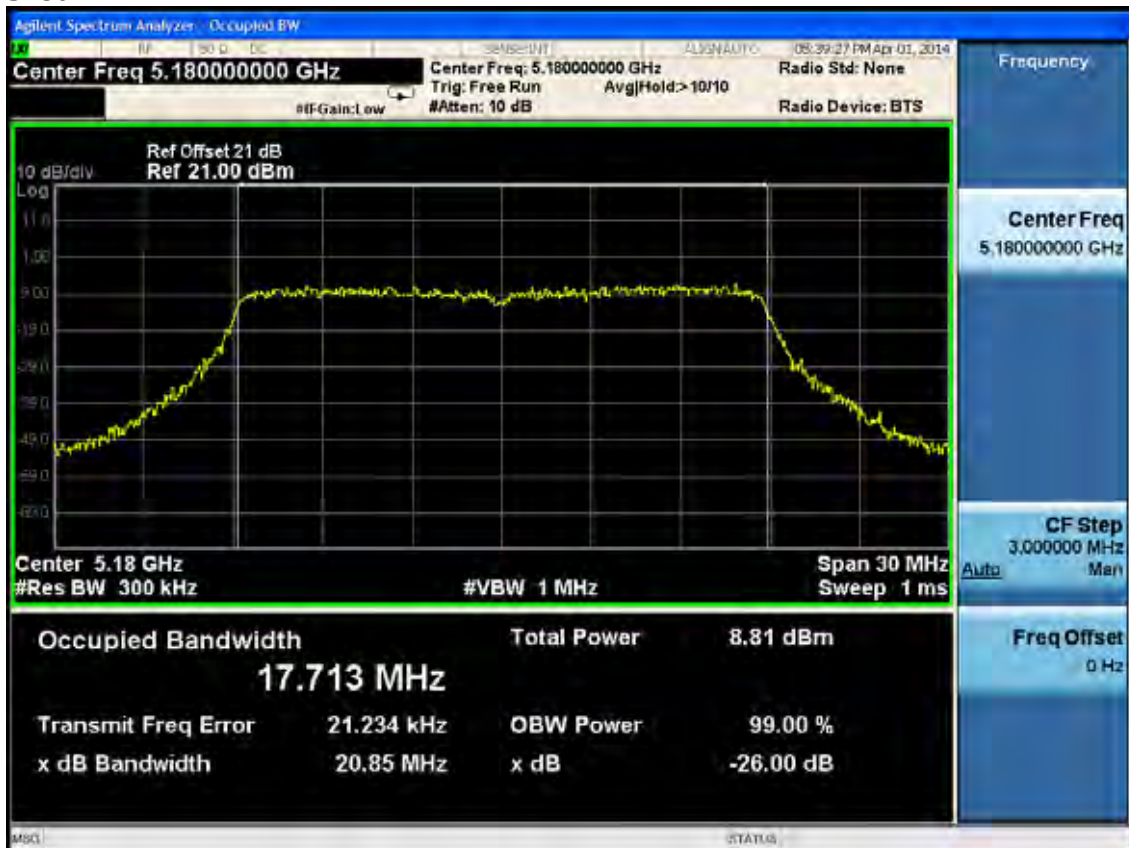


5240MHz

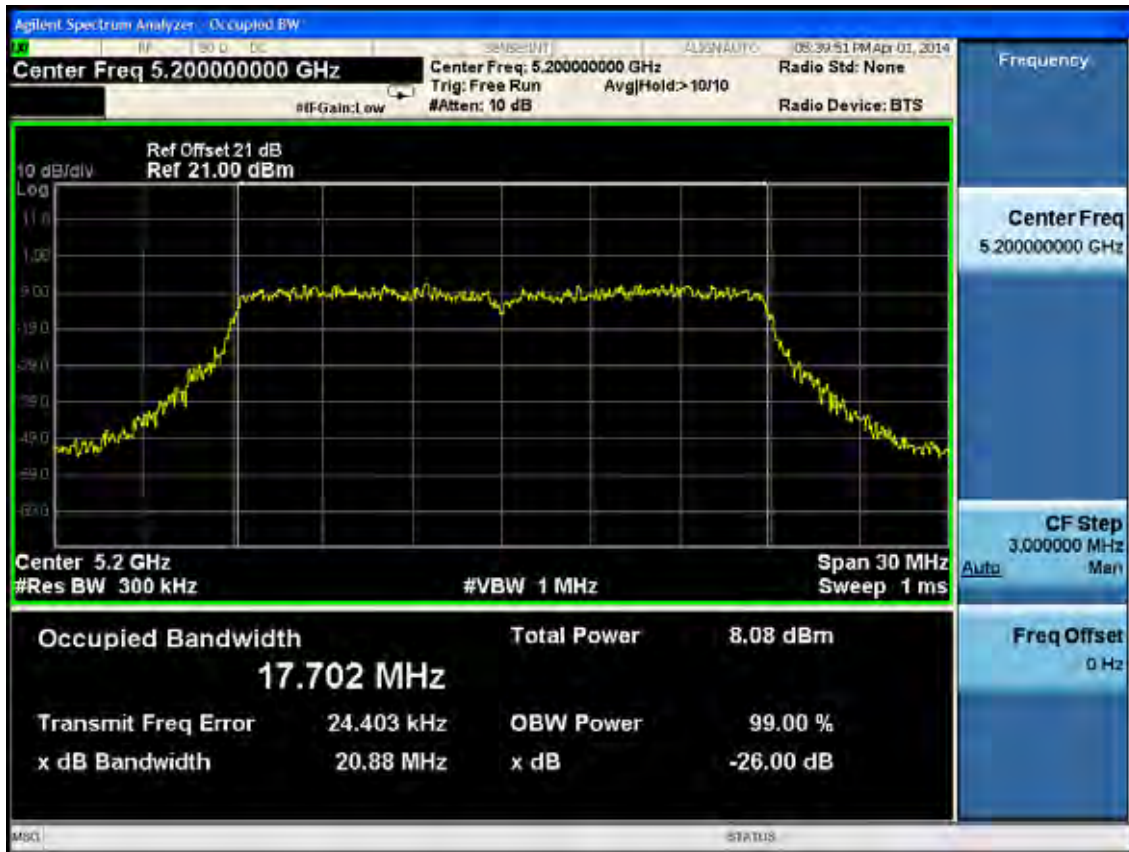


11n HT20

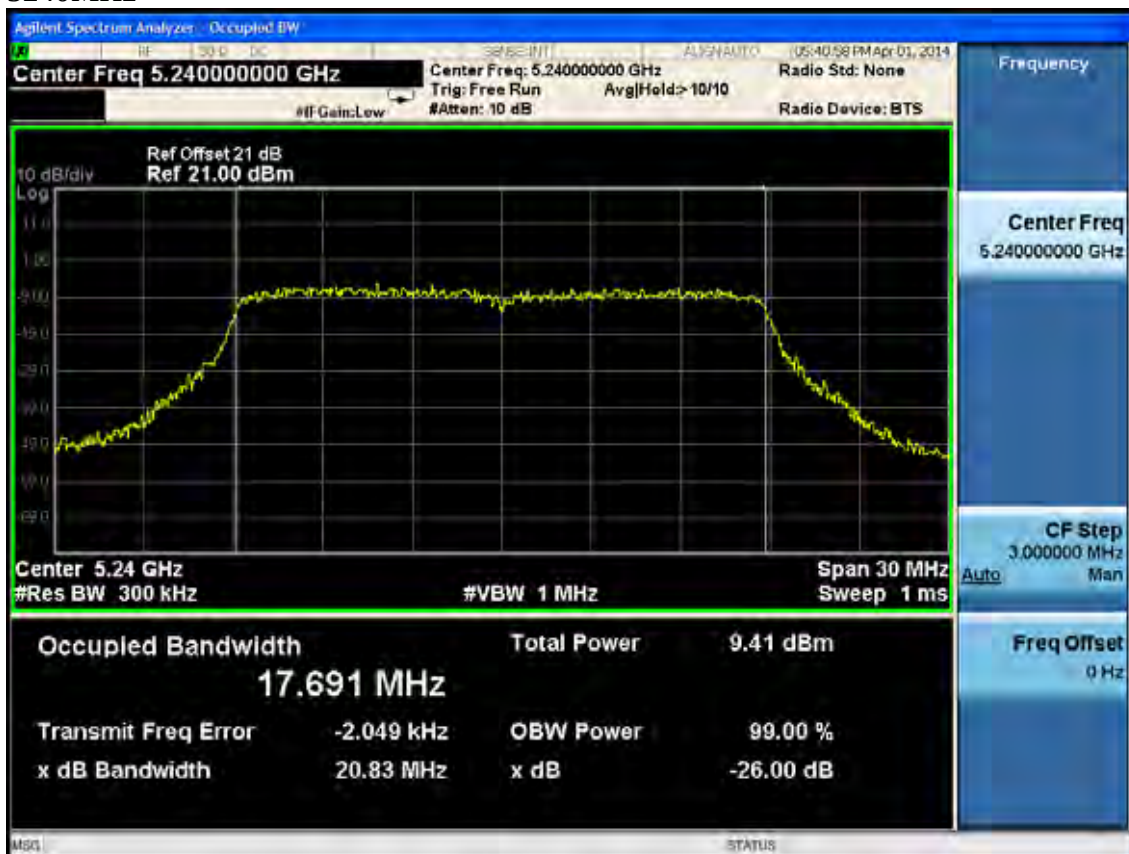
5180MHz



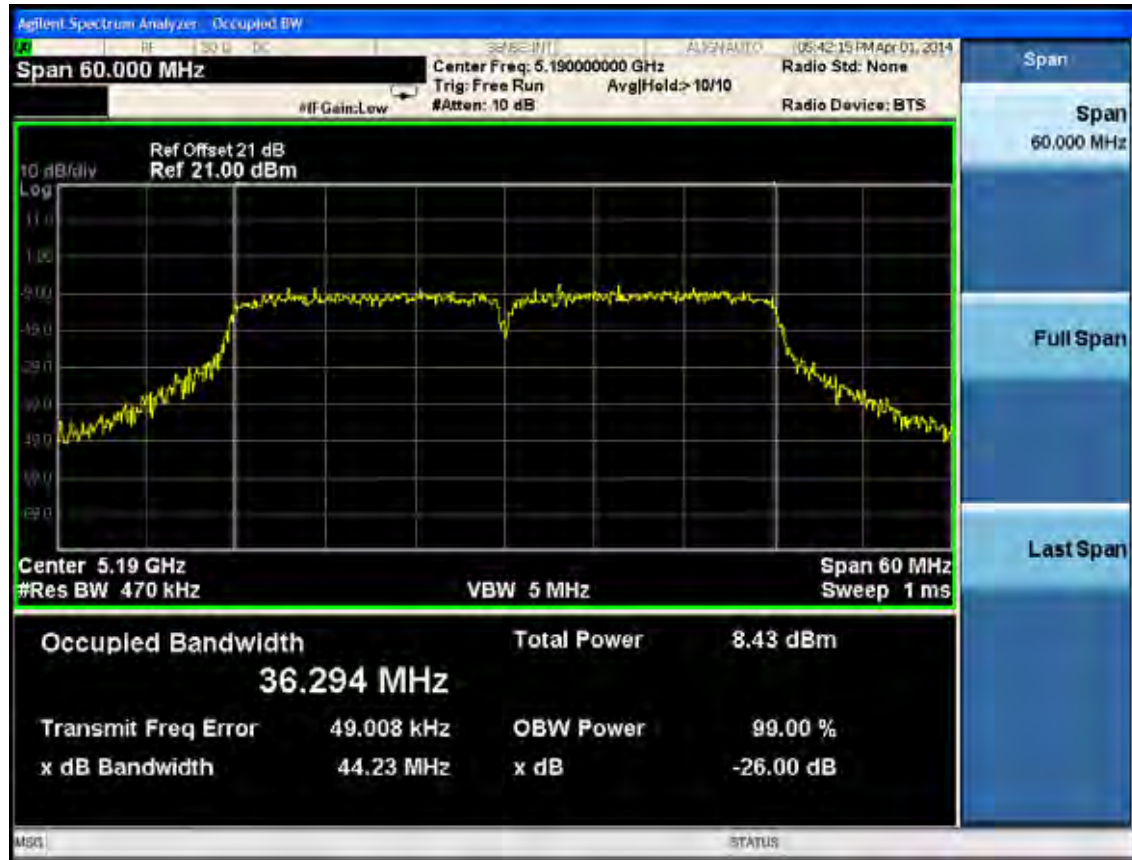
5200MHz



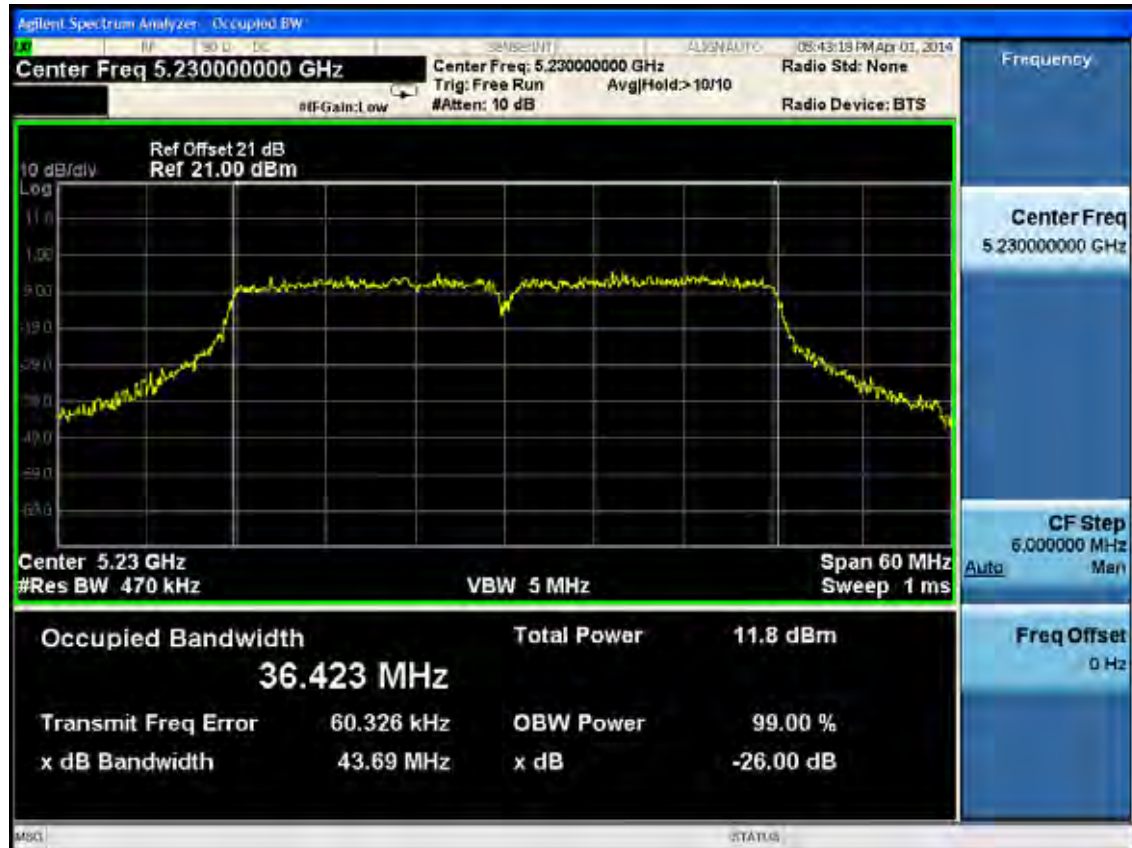
5240MHz



11n HT40
5190MHz



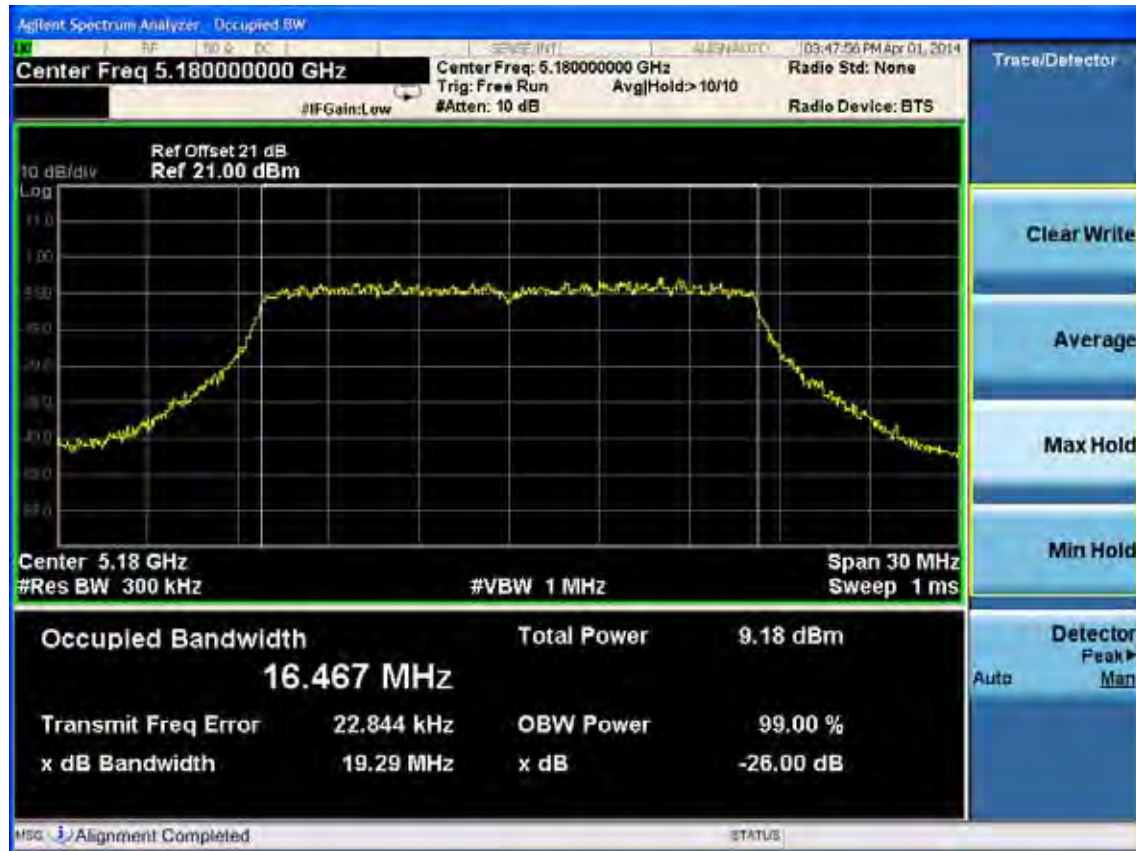
5230MHz



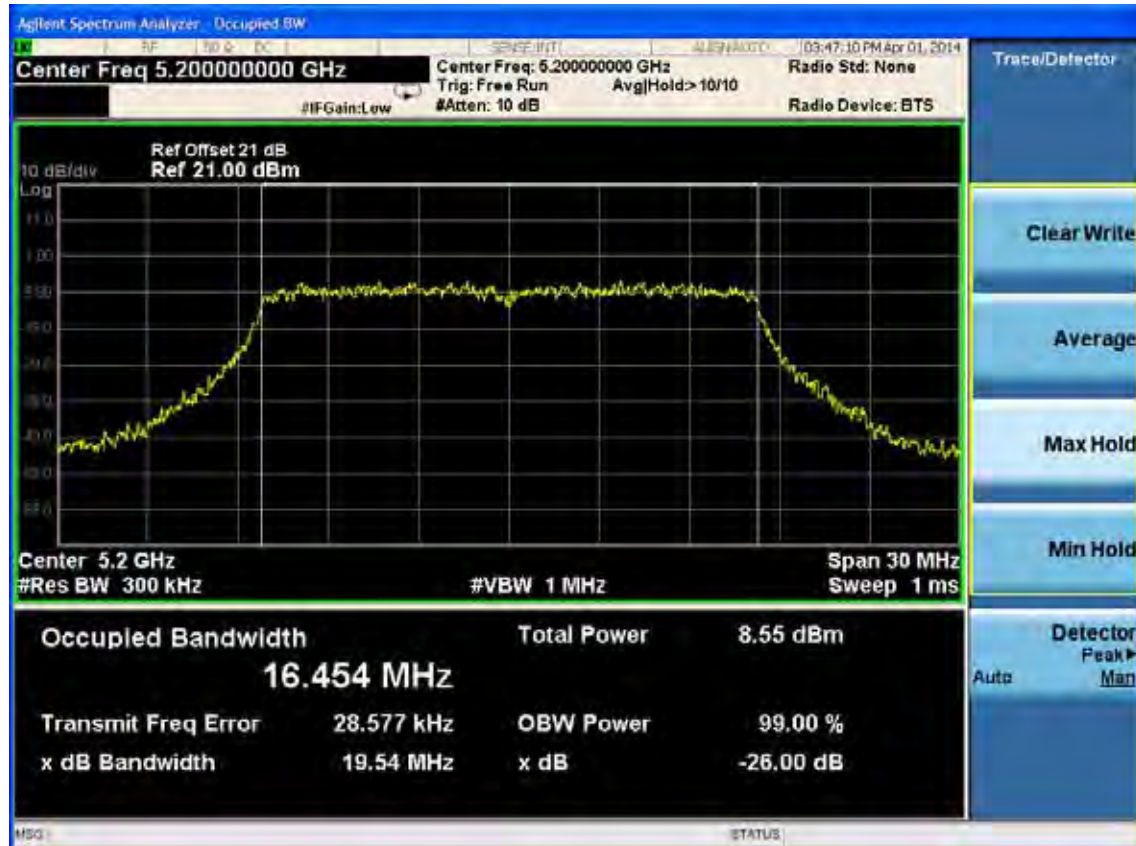
ANT 1

11a

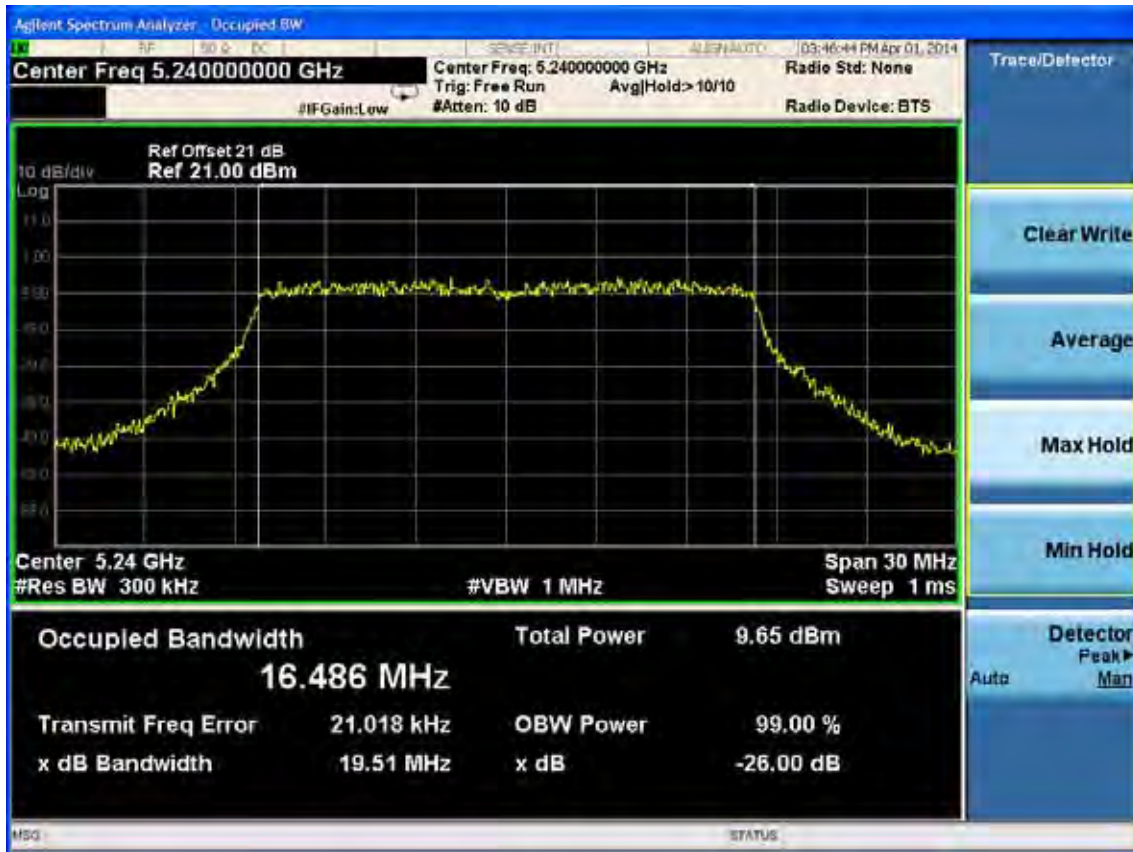
5180MHz



5200MHz



5240MHz

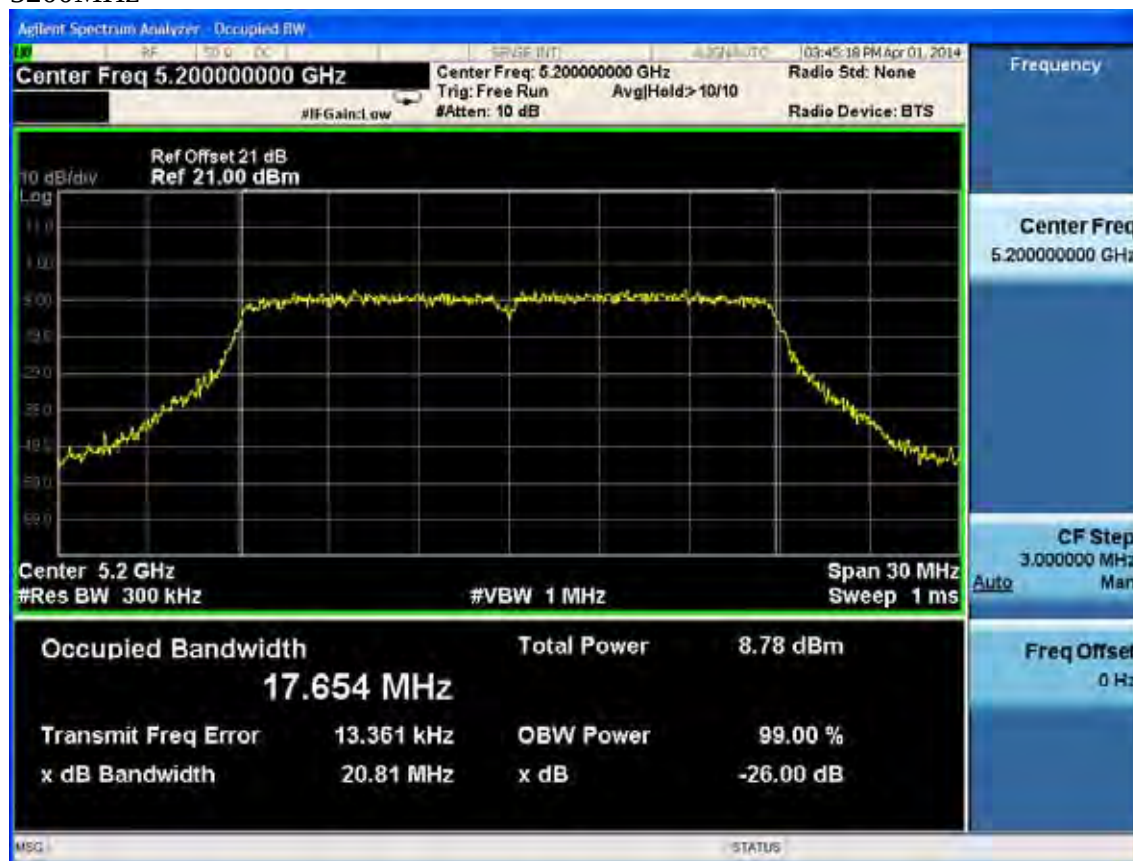


11n HT20

5180MHz



5200MHz



5240MHz



11n HT40
5190MHz



5230MHz

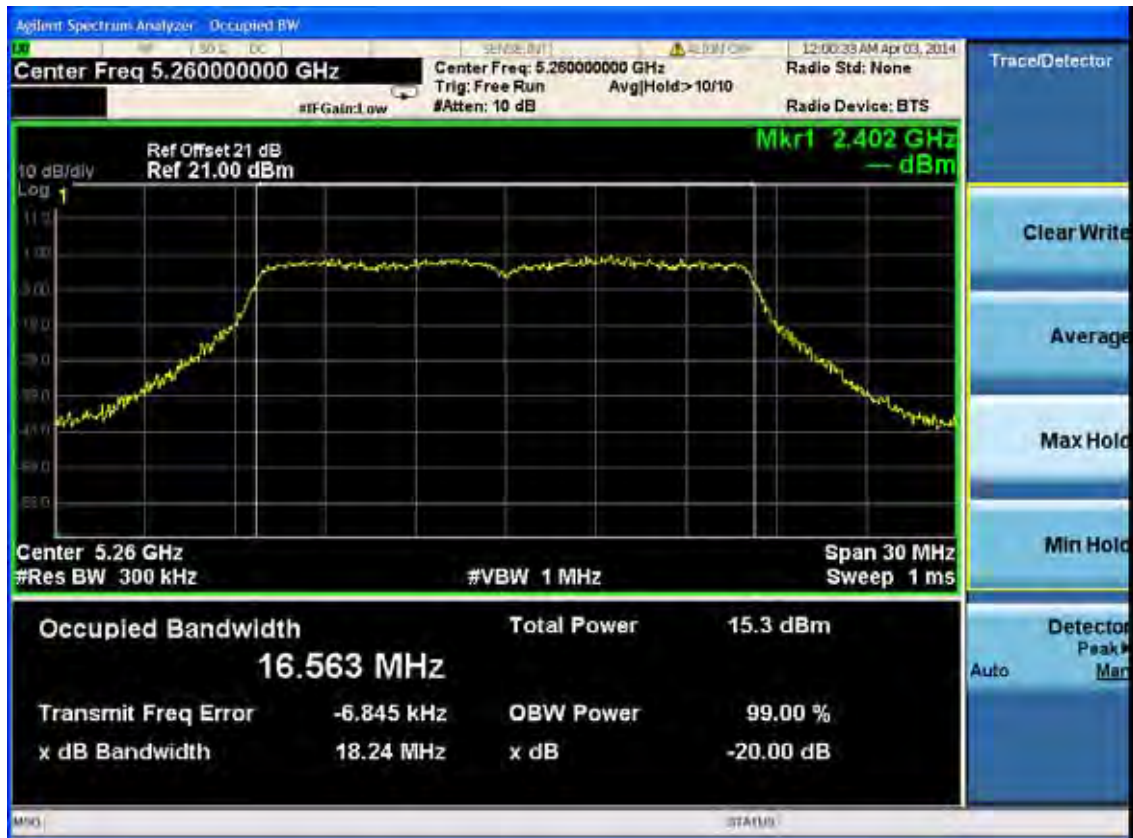


(5250-5350MHz) 20dB bandwidth:

ANT 0

11a

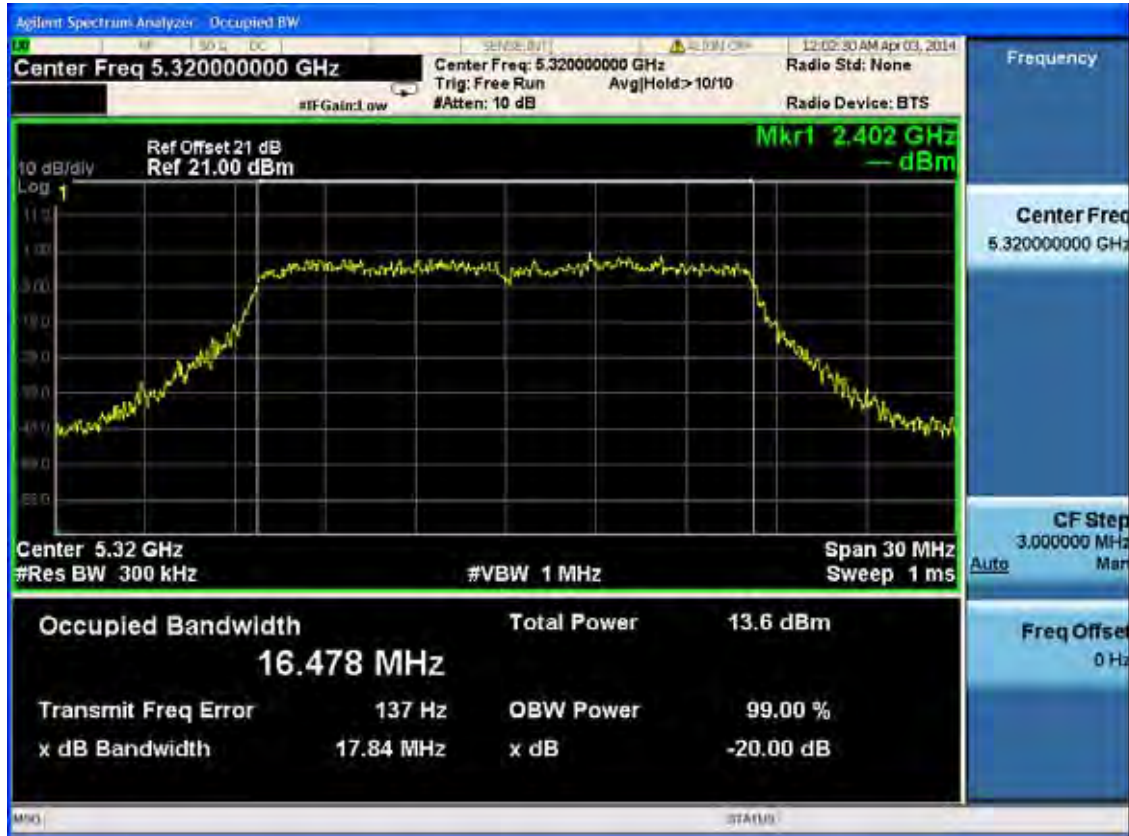
5260MHz



5300MHz



5320MHz

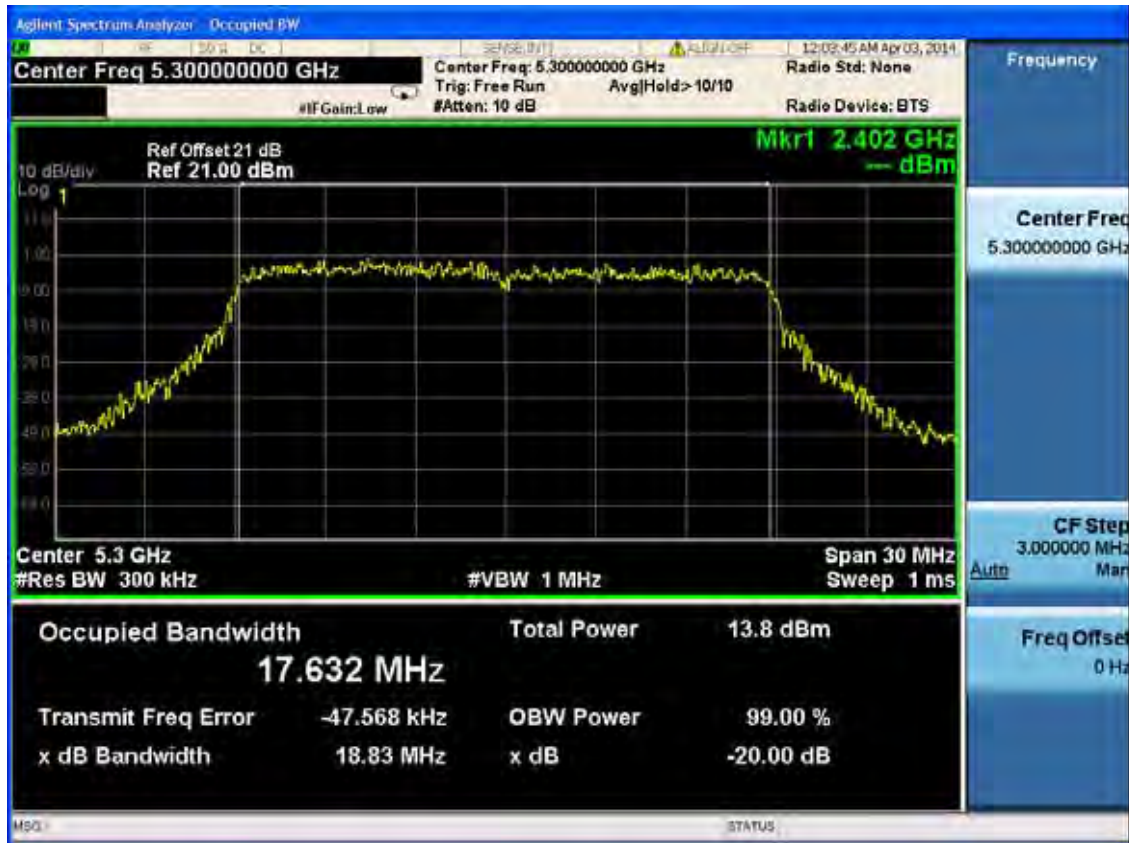


11n HT20

5260MHz



5300MHz



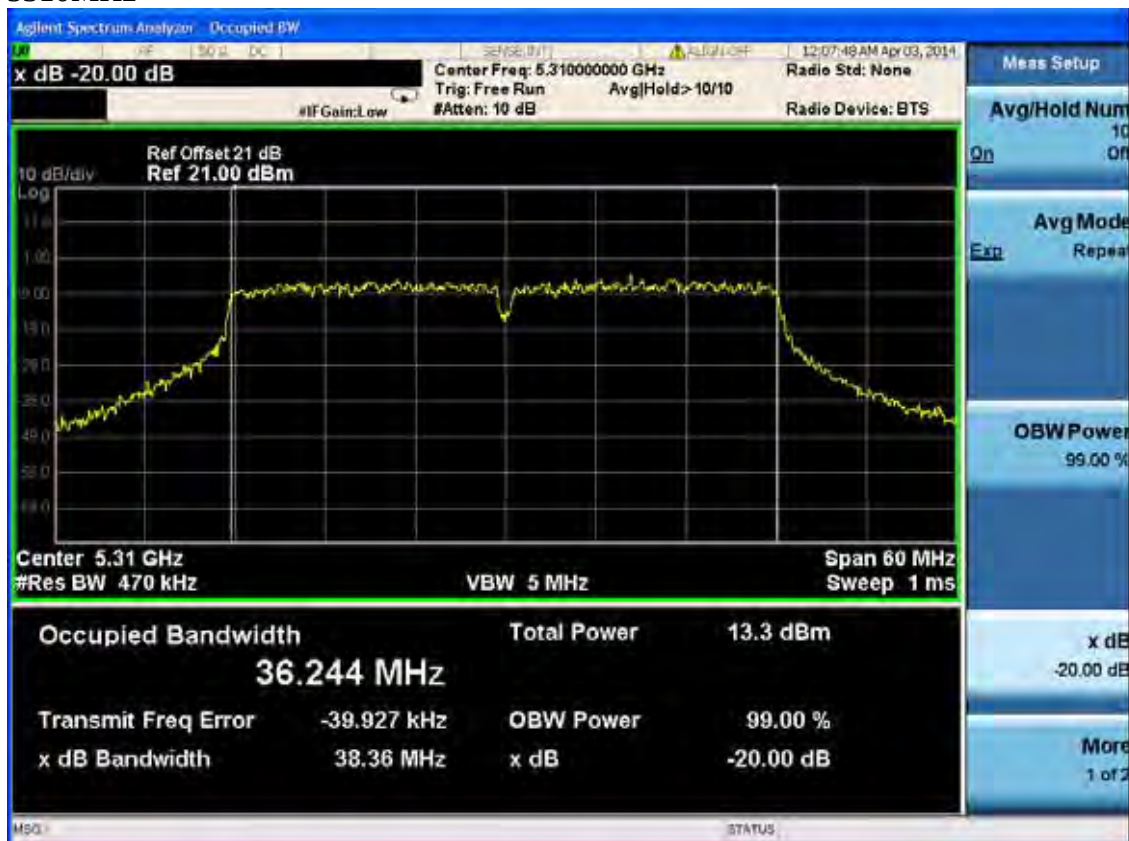
5320MHz



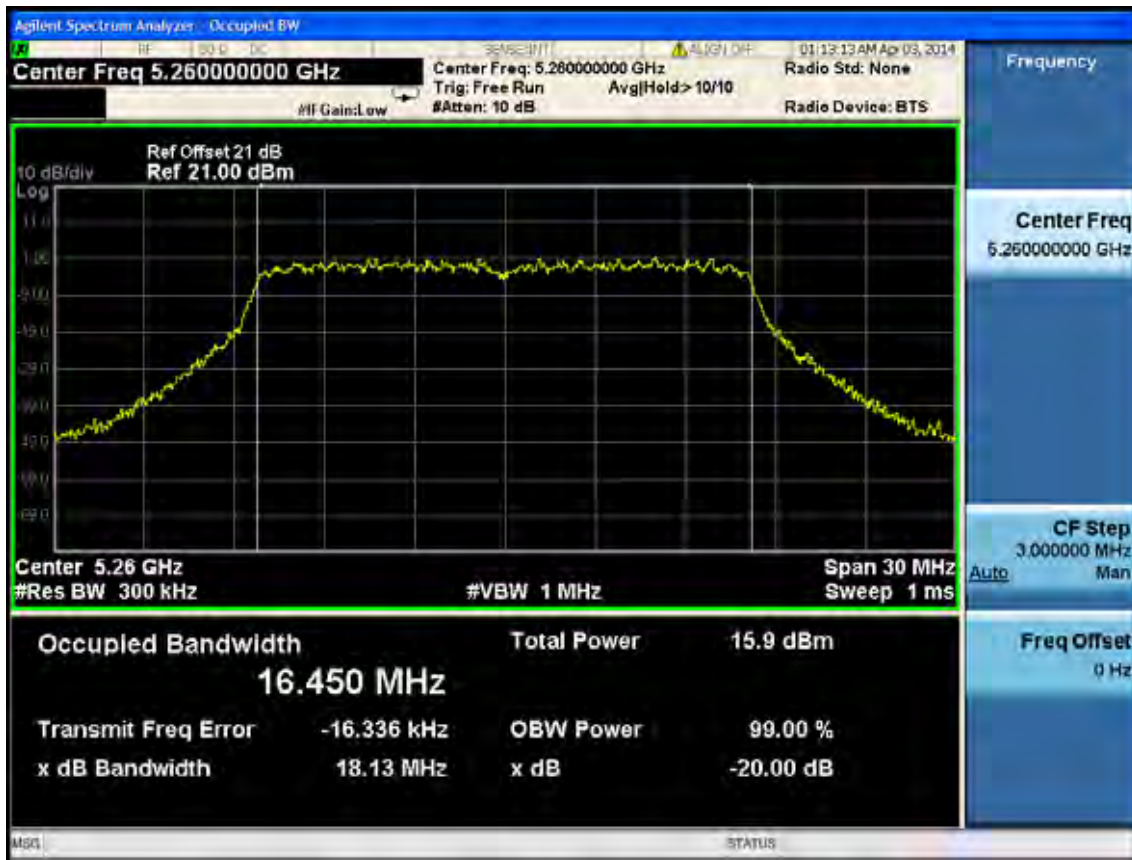
11n HT40
5270MHz



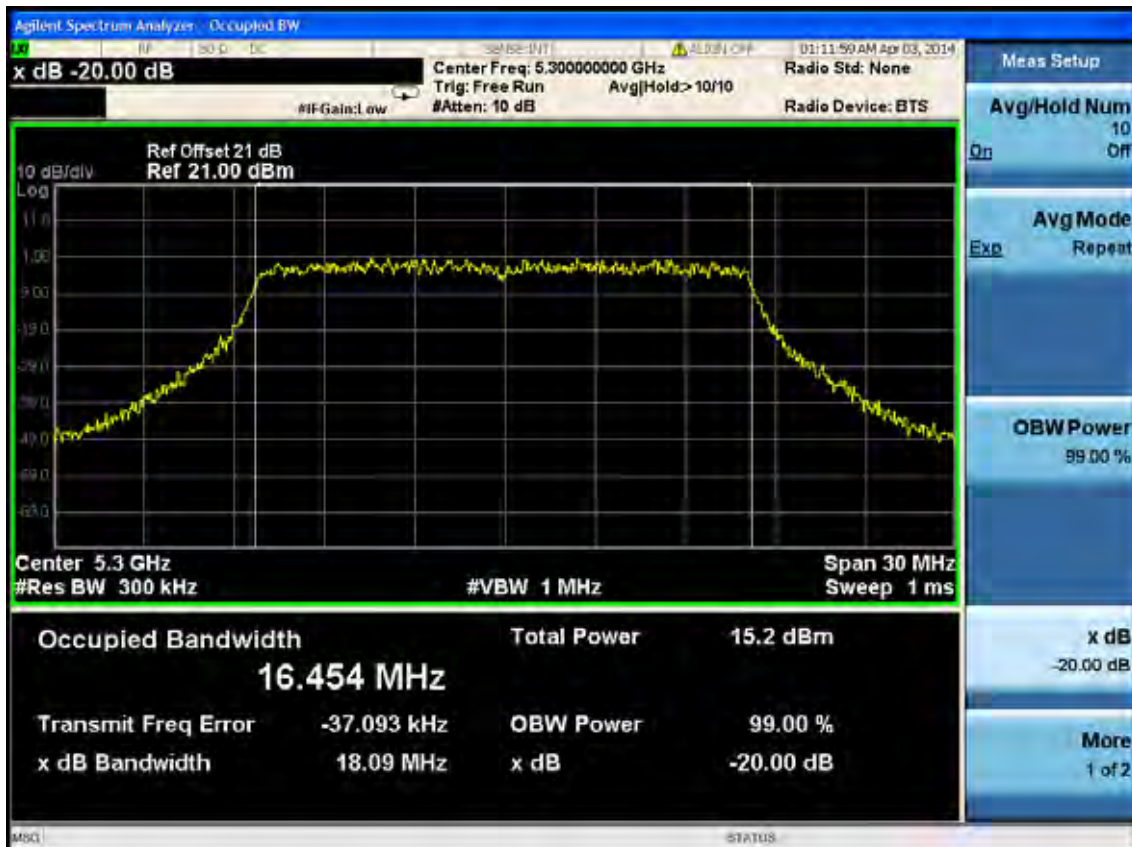
5310MHz



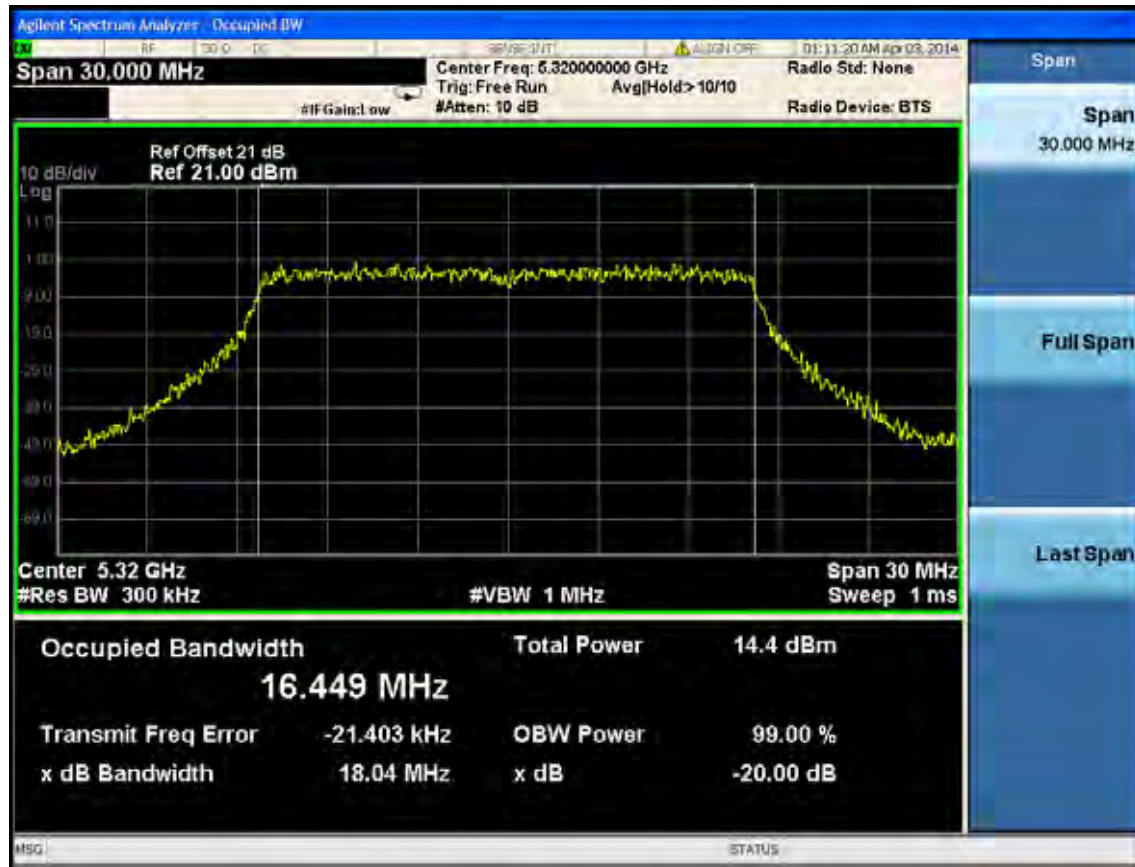
ANT 1
11a
5260MHz



5300MHz

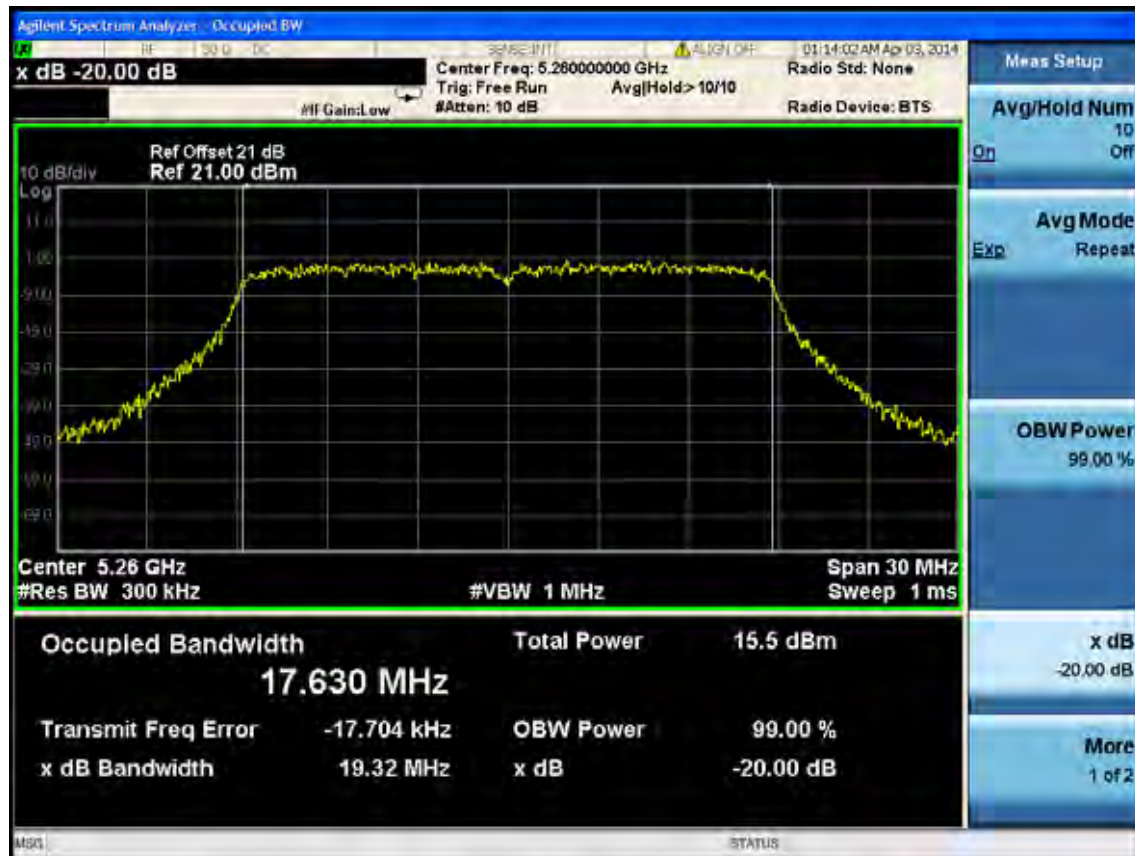


5320MHz

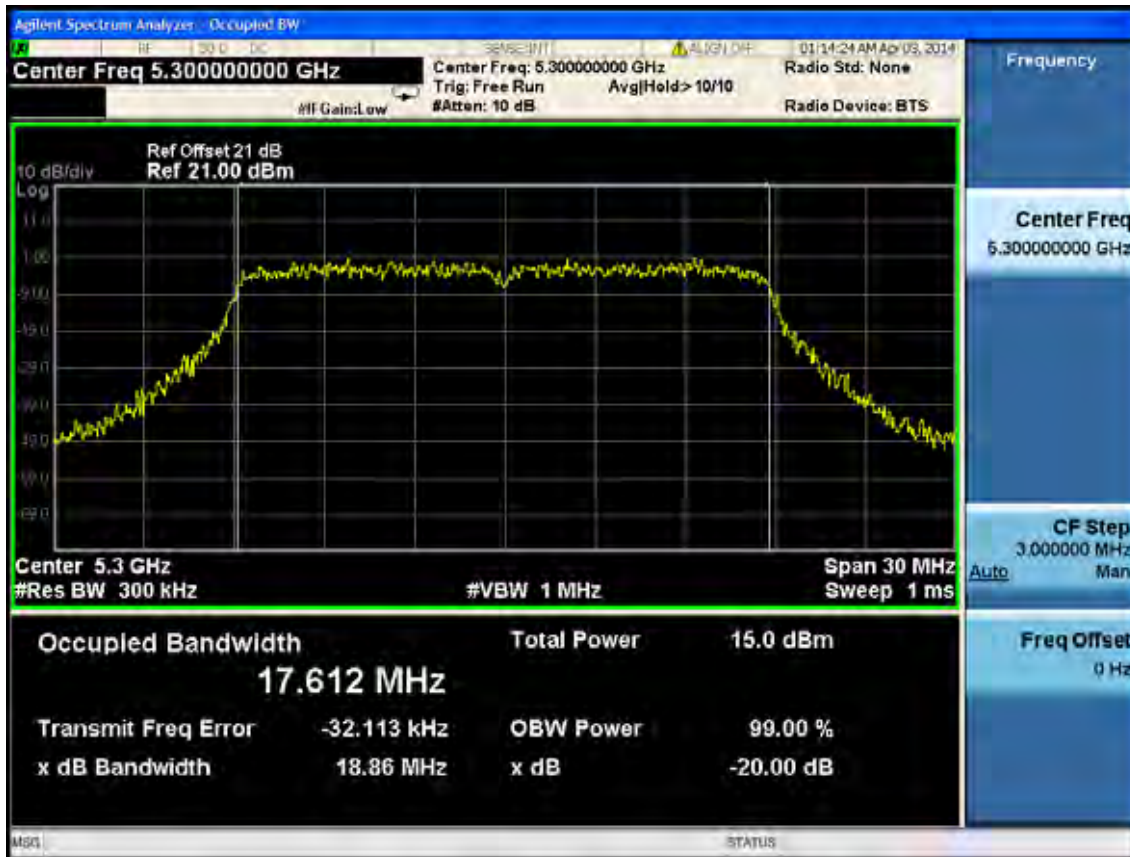


11n HT20

5260MHz



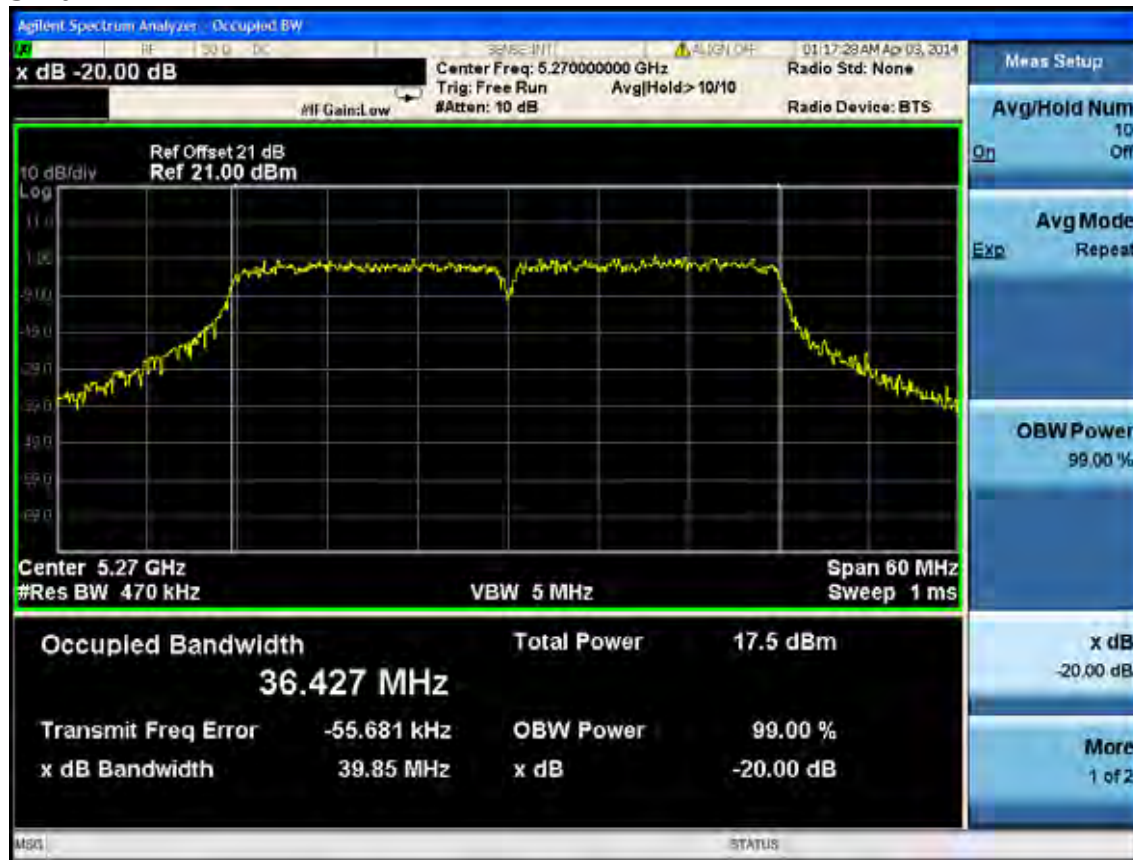
5300MHz



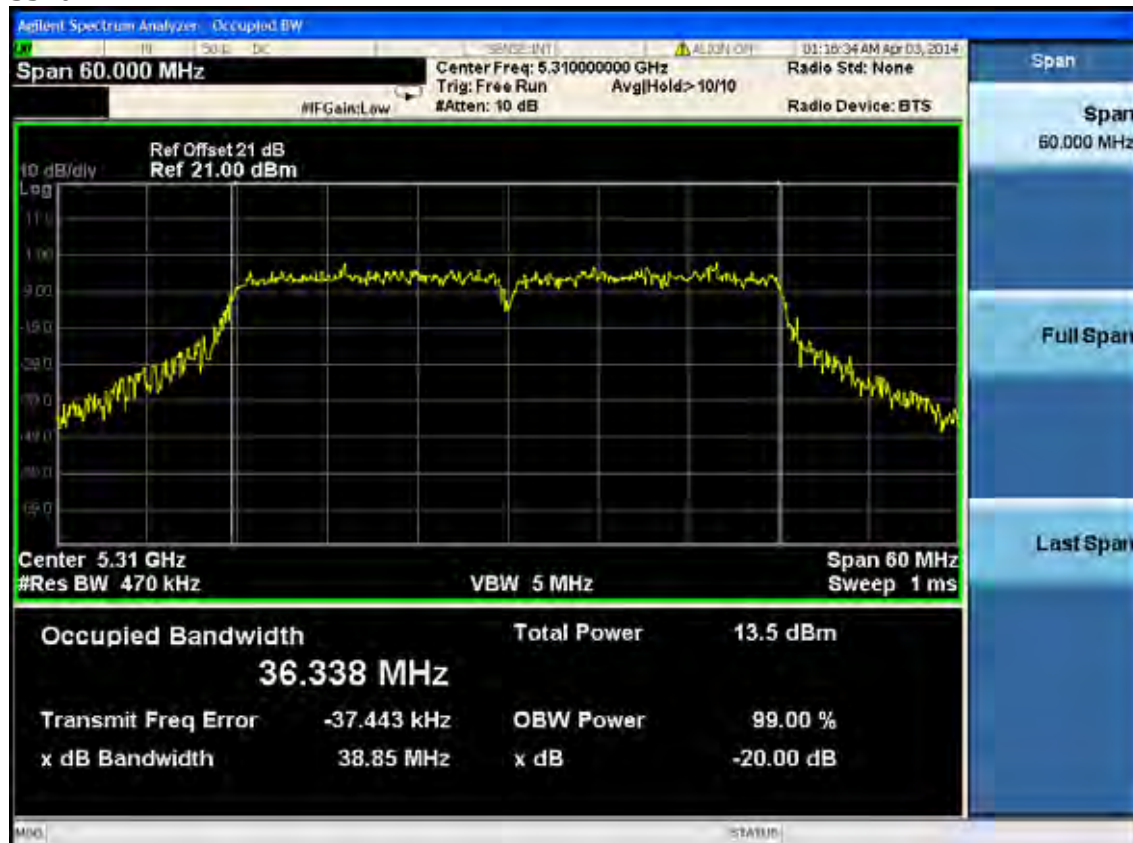
5320MHz



11n HT40 5270MHz



5310MHz



(5250-5350MHz) 26dB bandwidth:

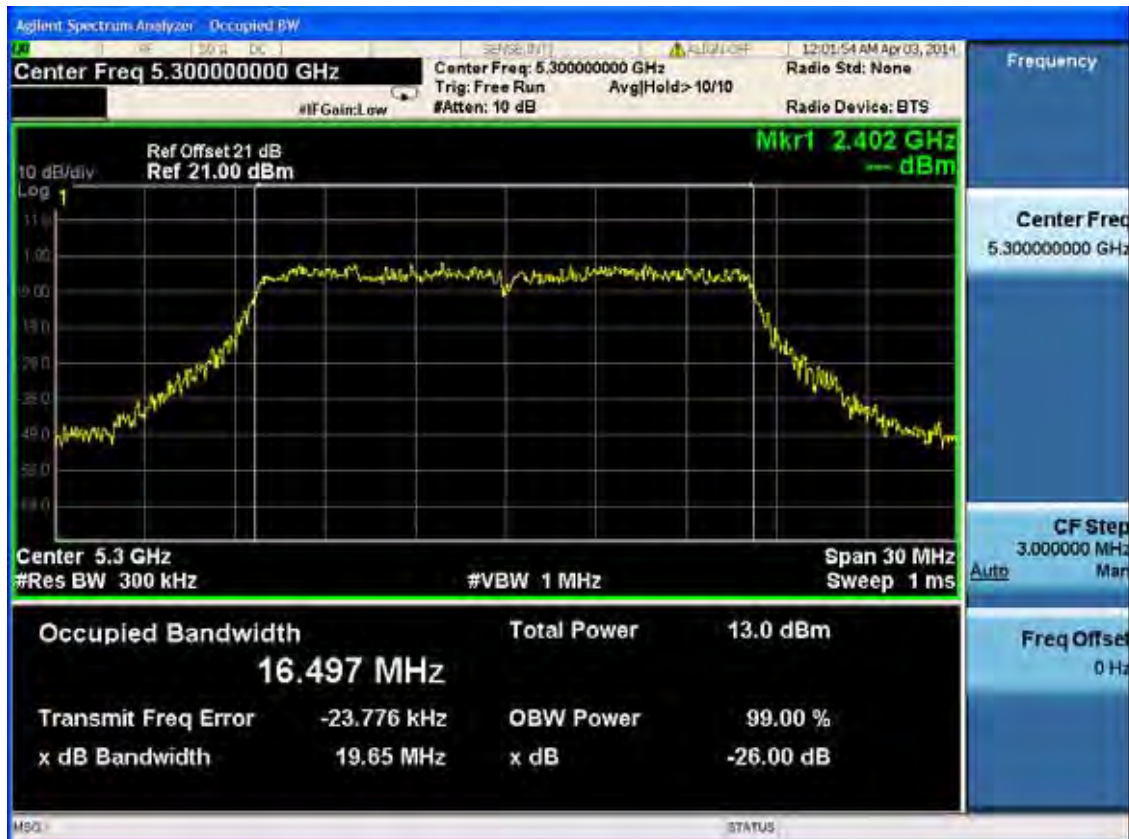
ANT 0

11a

5260MHz



5300MHz



5320MHz

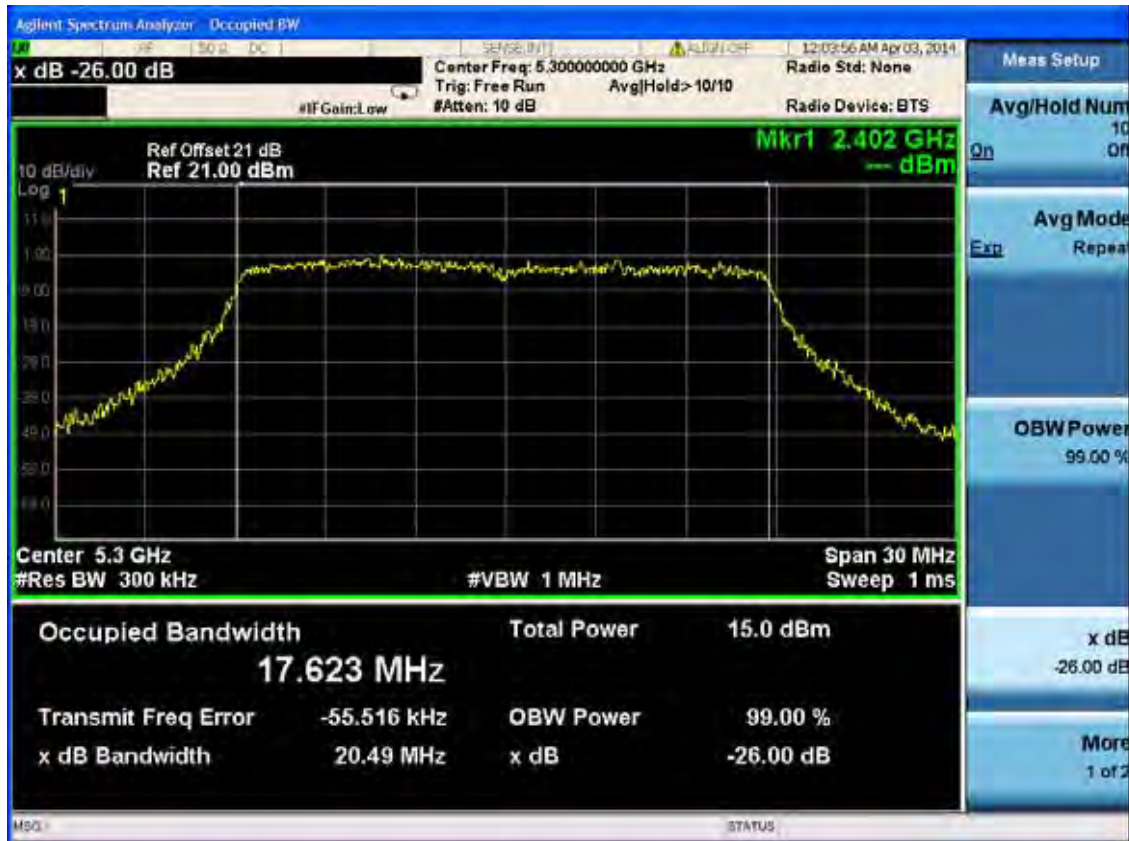


11n HT20

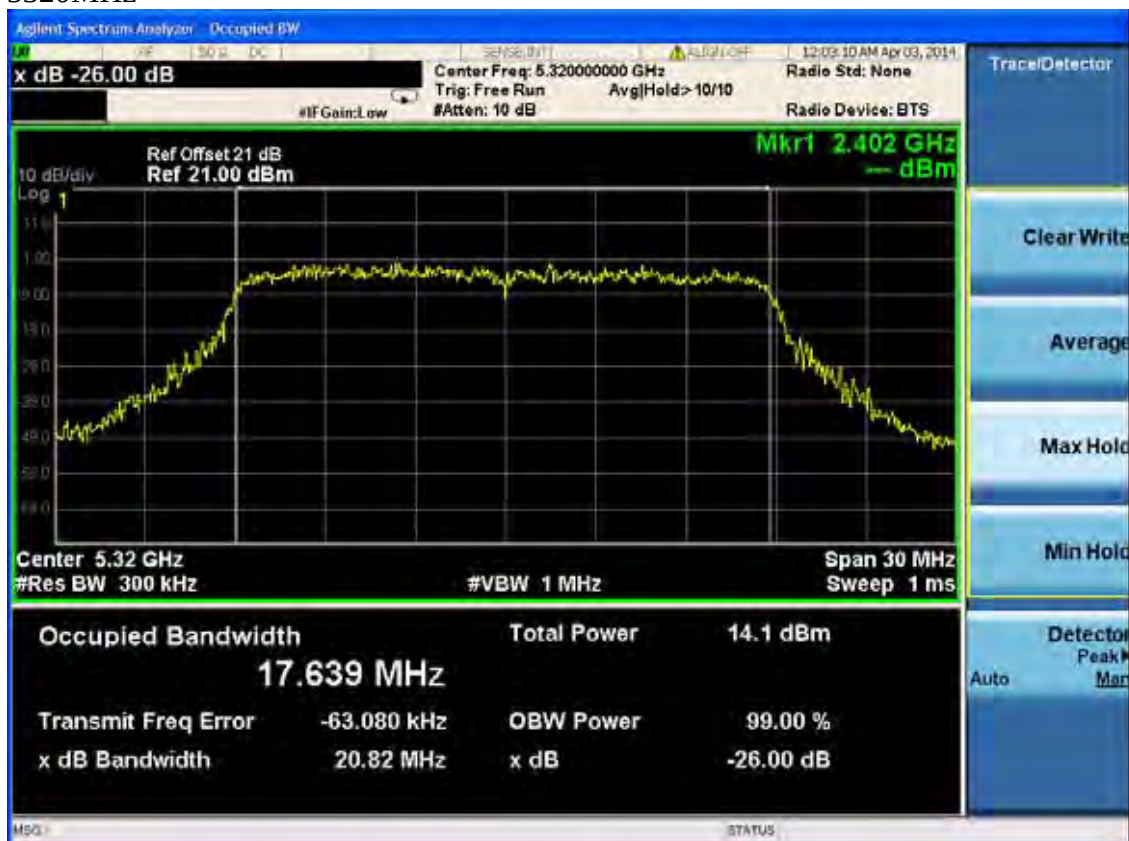
5260MHz



5300MHz



5320MHz



11n HT40
5270MHz



5310MHz



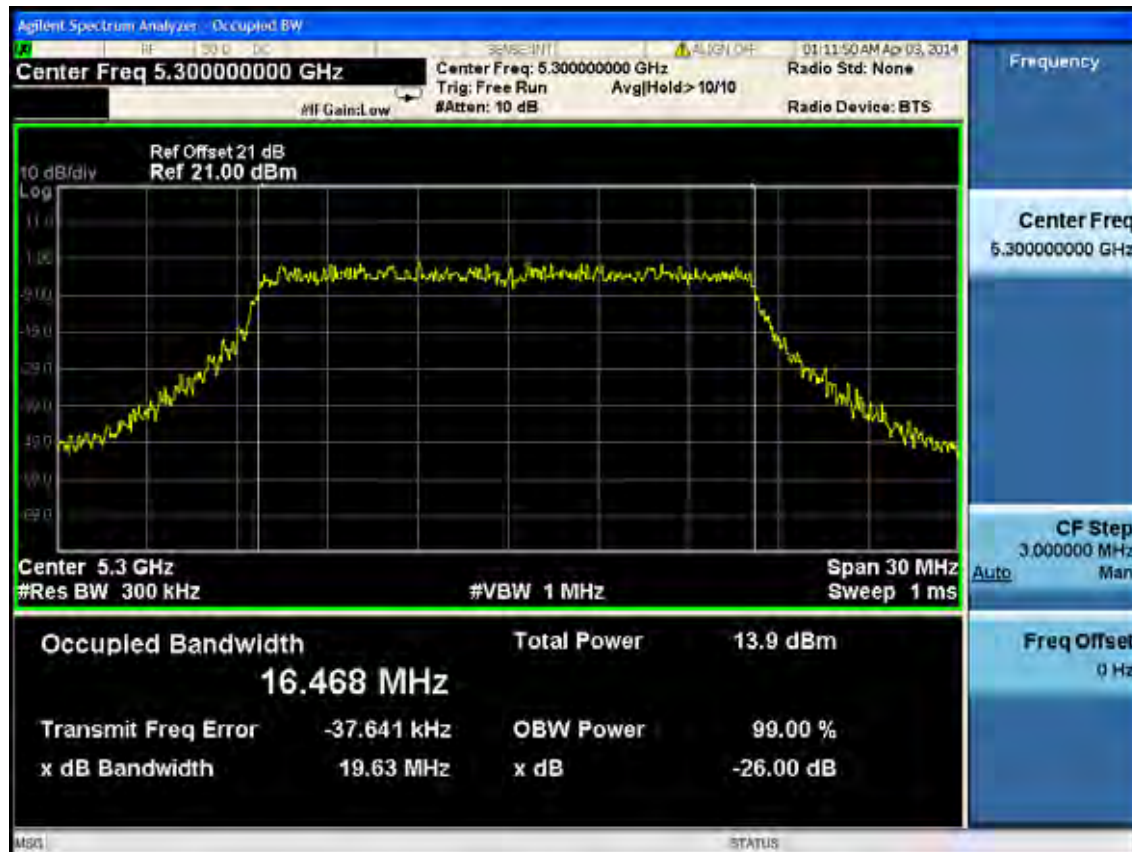
ANT 1

11a

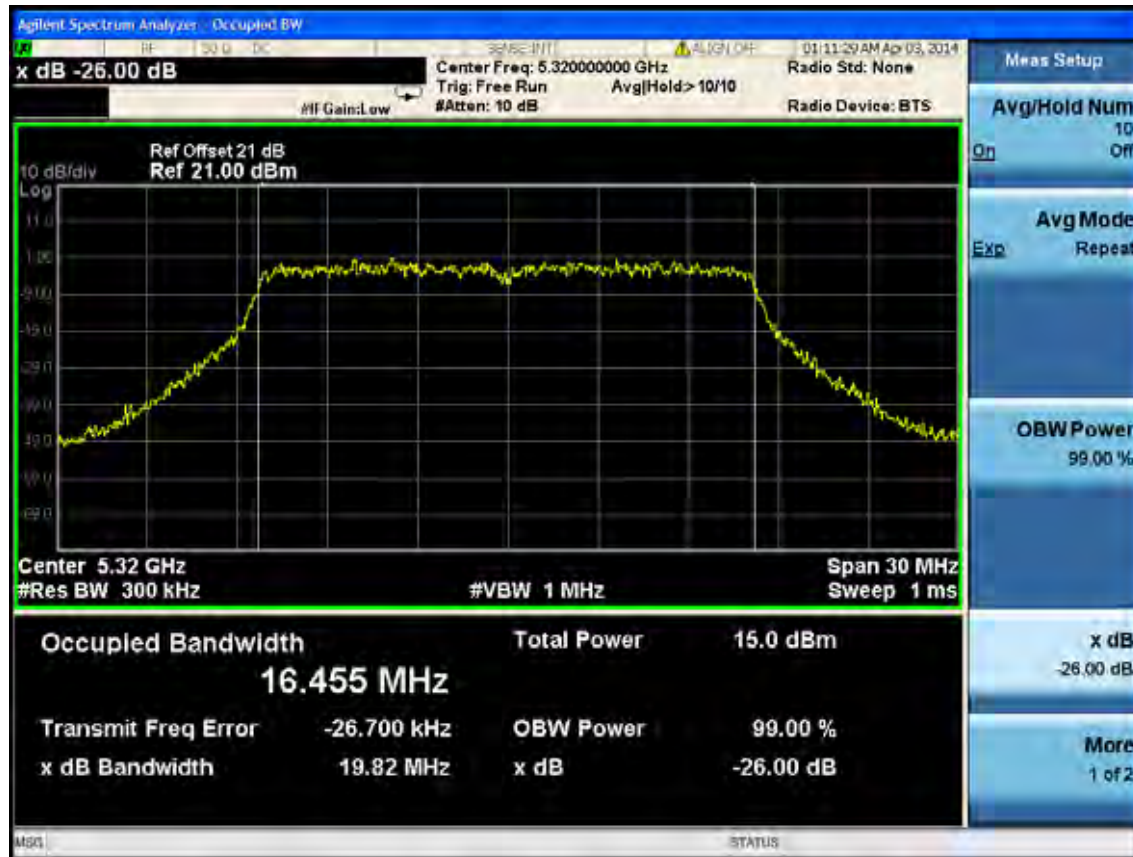
5260MHz



5300MHz

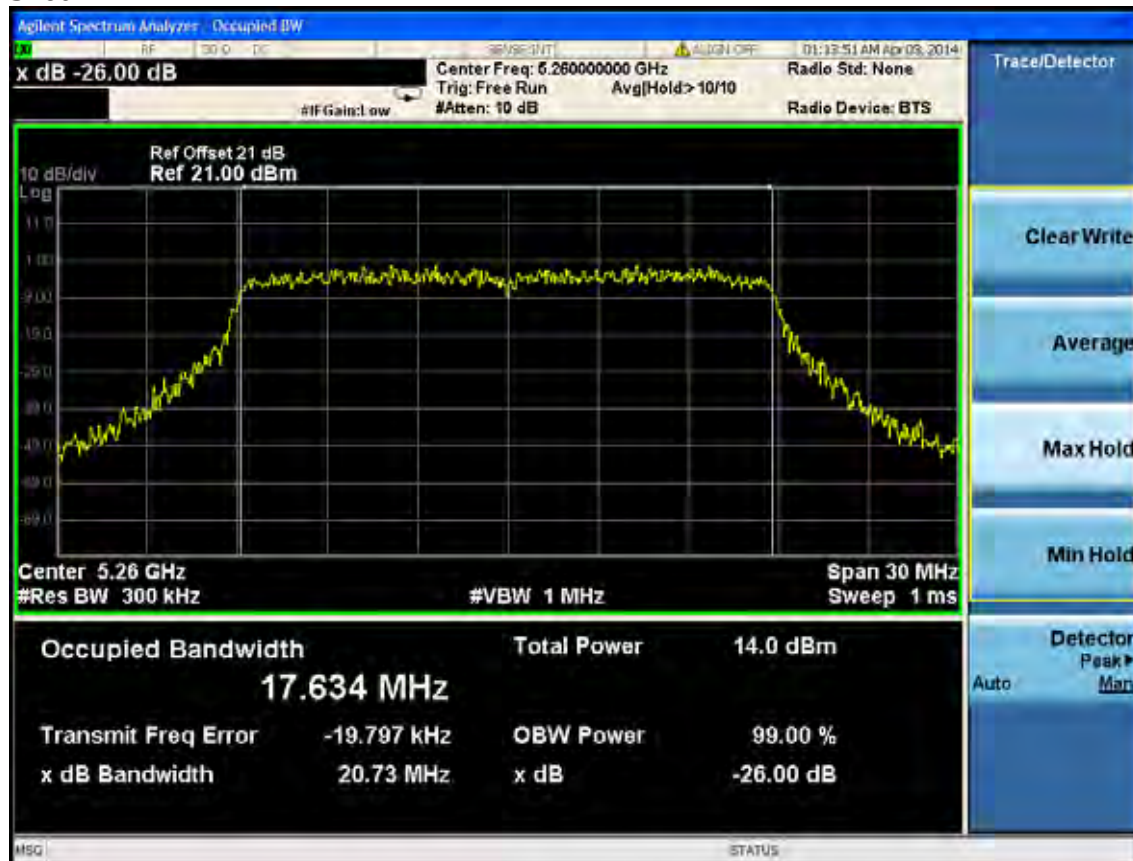


5320MHz

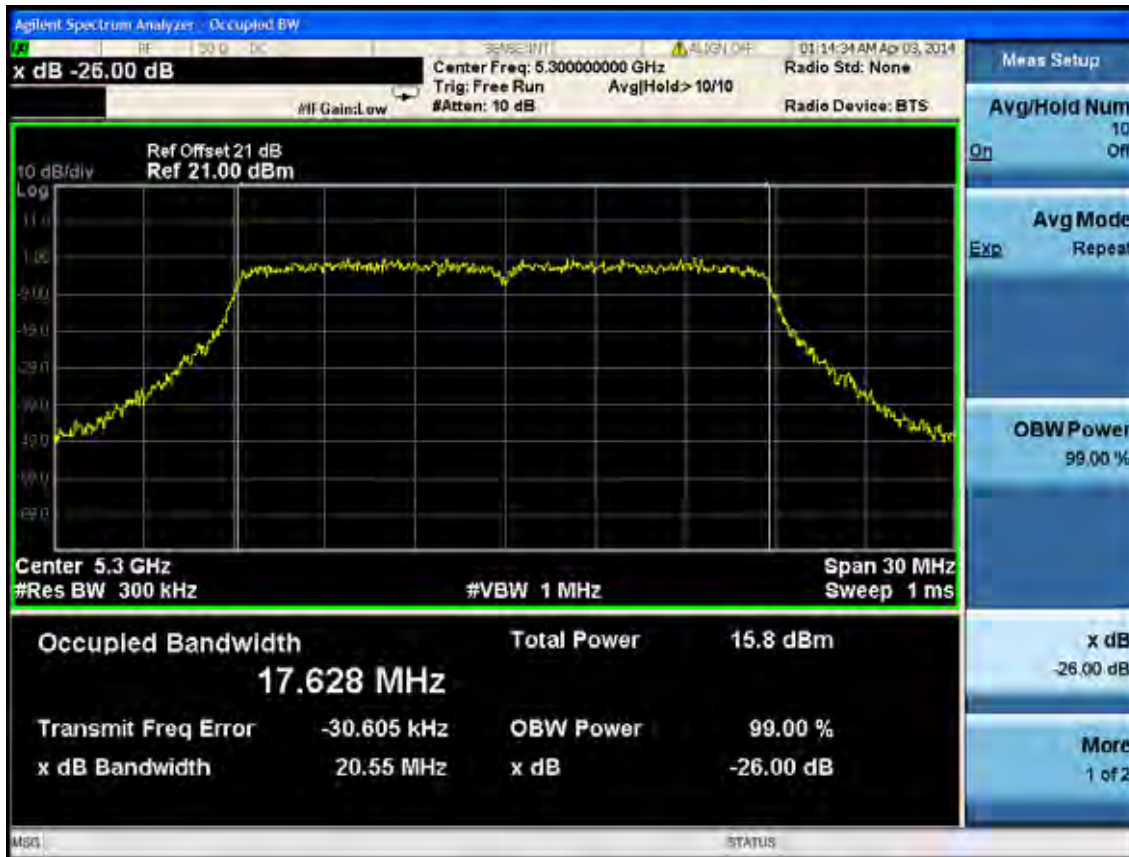


11n HT20

5260MHz



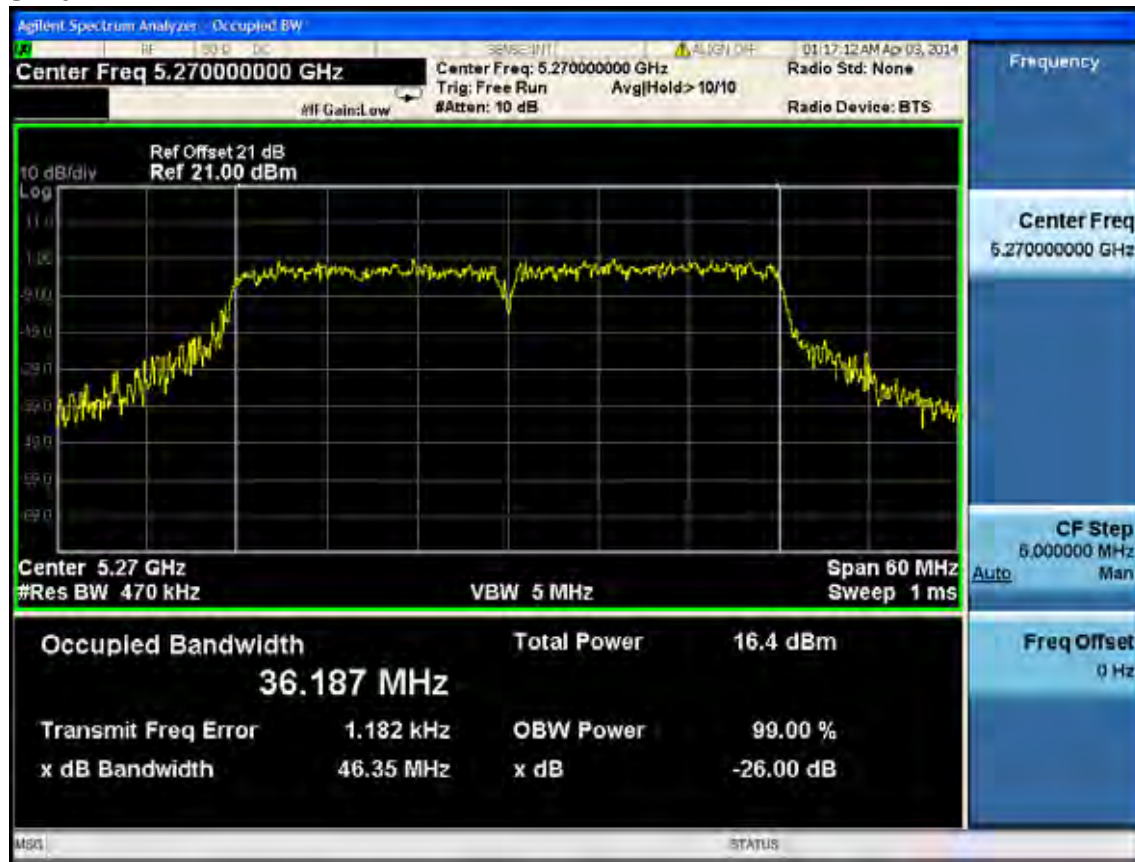
5300MHz



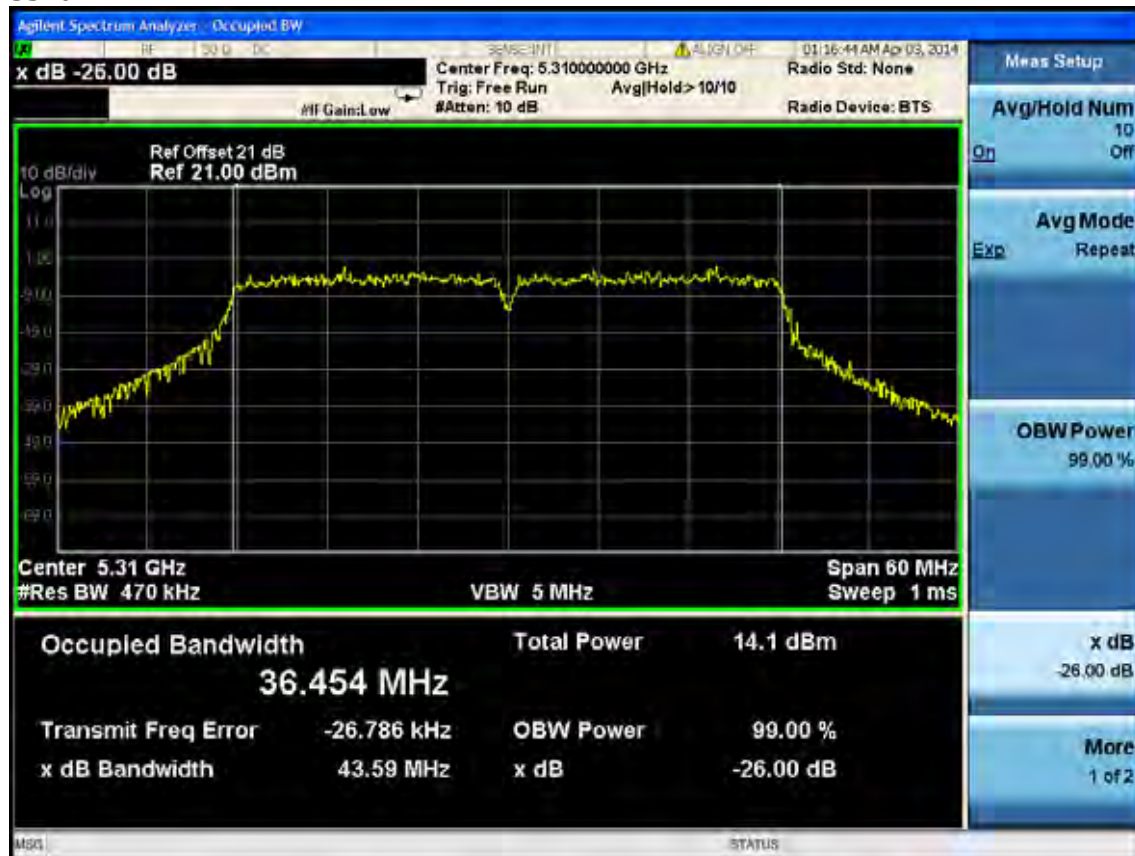
5320MHz



11n HT40
5270MHz



5310MHz

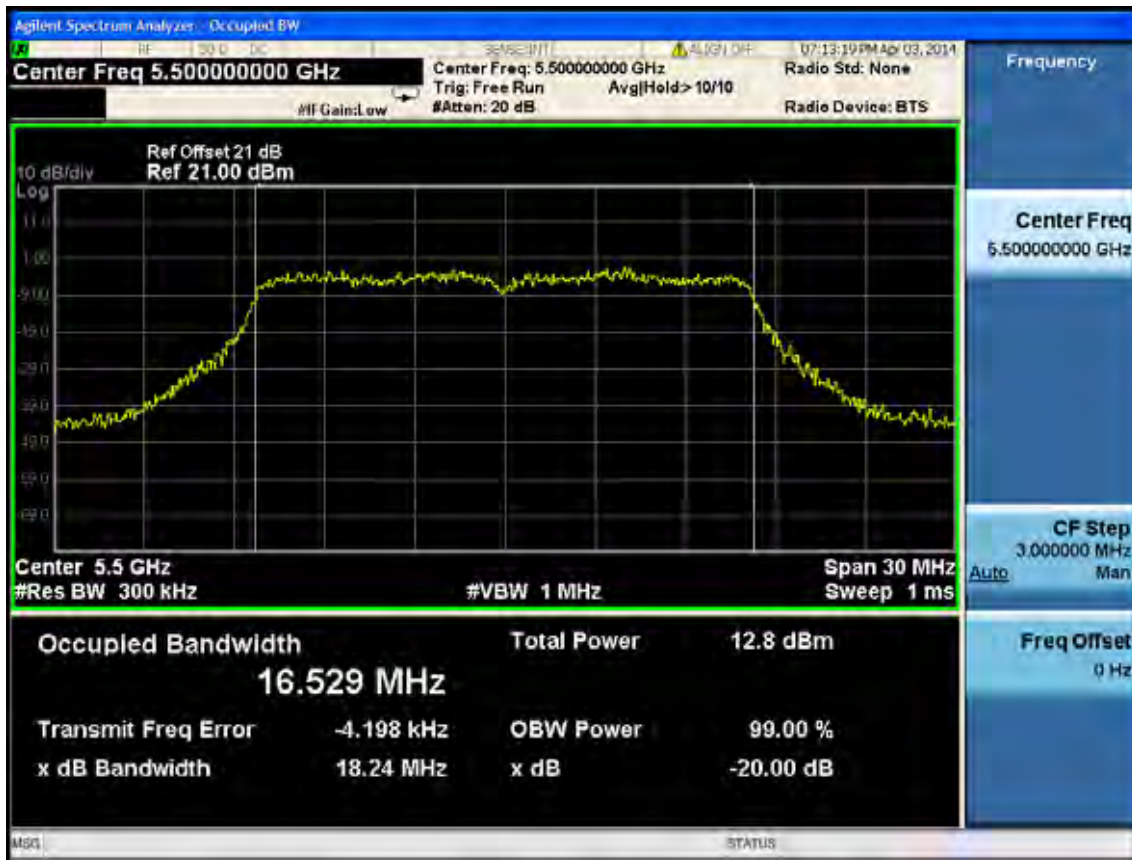


(5470-5725MHz) 20dB bandwidth:

ANT 0

11a

5500MHz



5600MHz



5700MHz



11nHT20

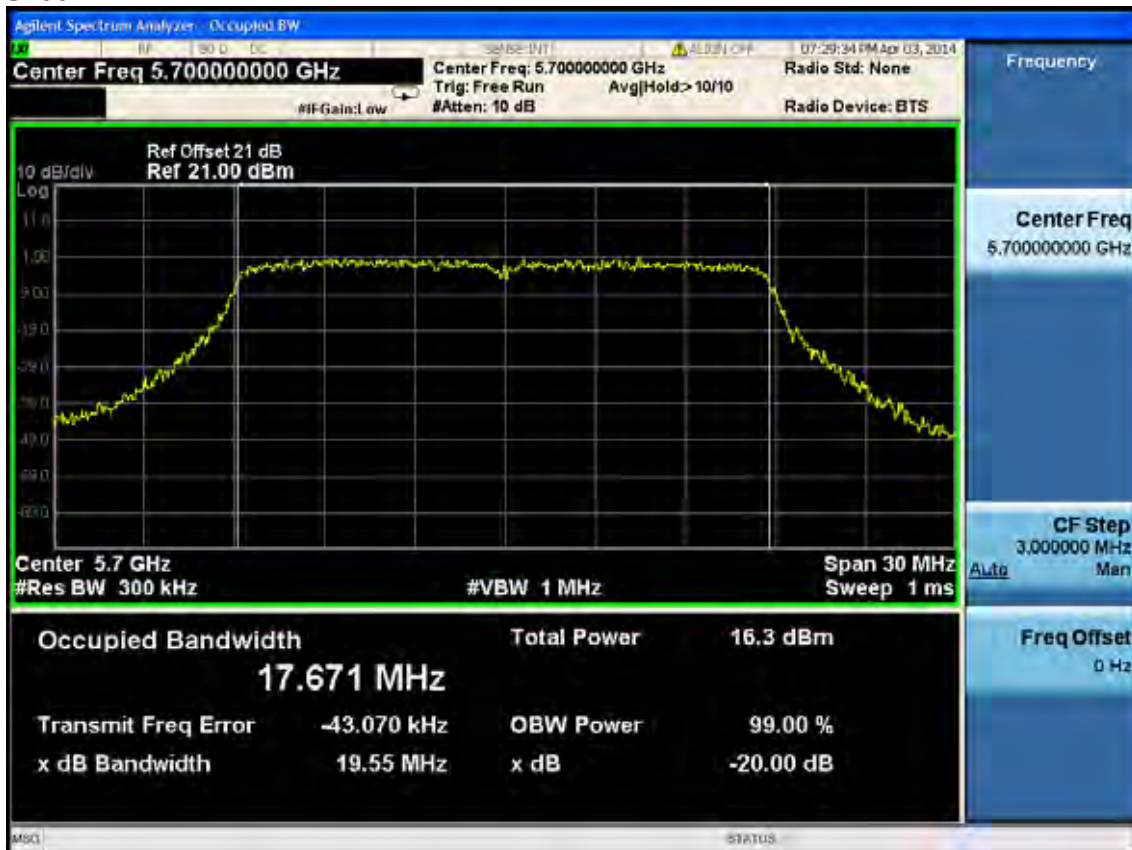
5500MHz



5600MHz



5700MHz



11nHT40

5510MHz



5670MHz



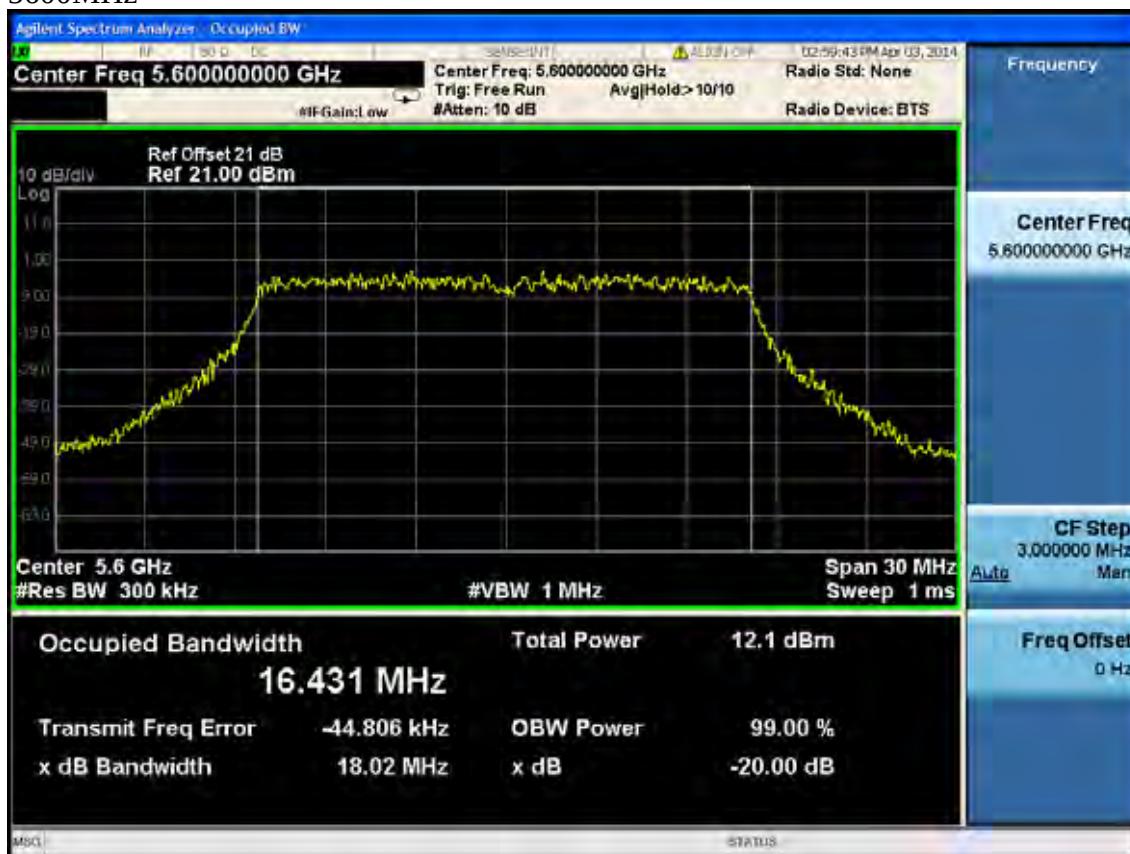
ANT 1

11a

5500MHz



5600MHz

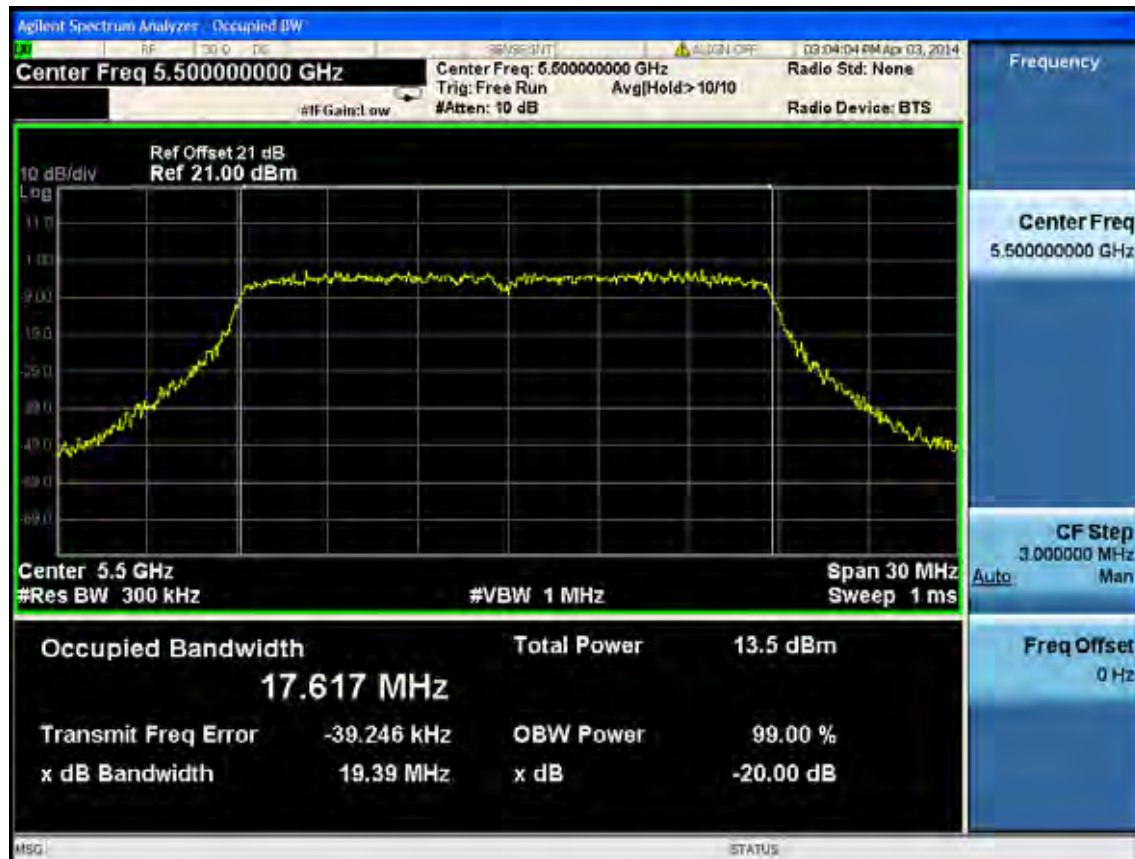


5700MHz



11nHT20

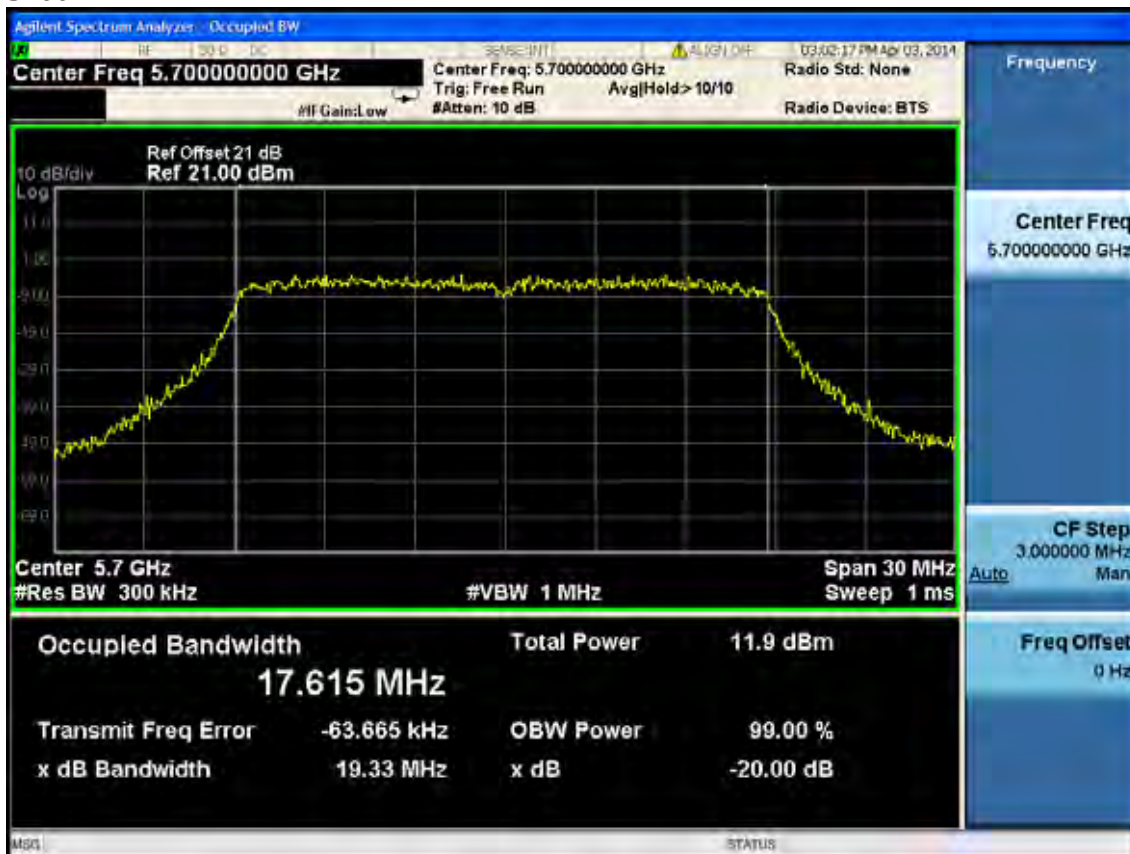
5500MHz



5600MHz



5700MHz



11nHT40
5510MHz



5670MHz

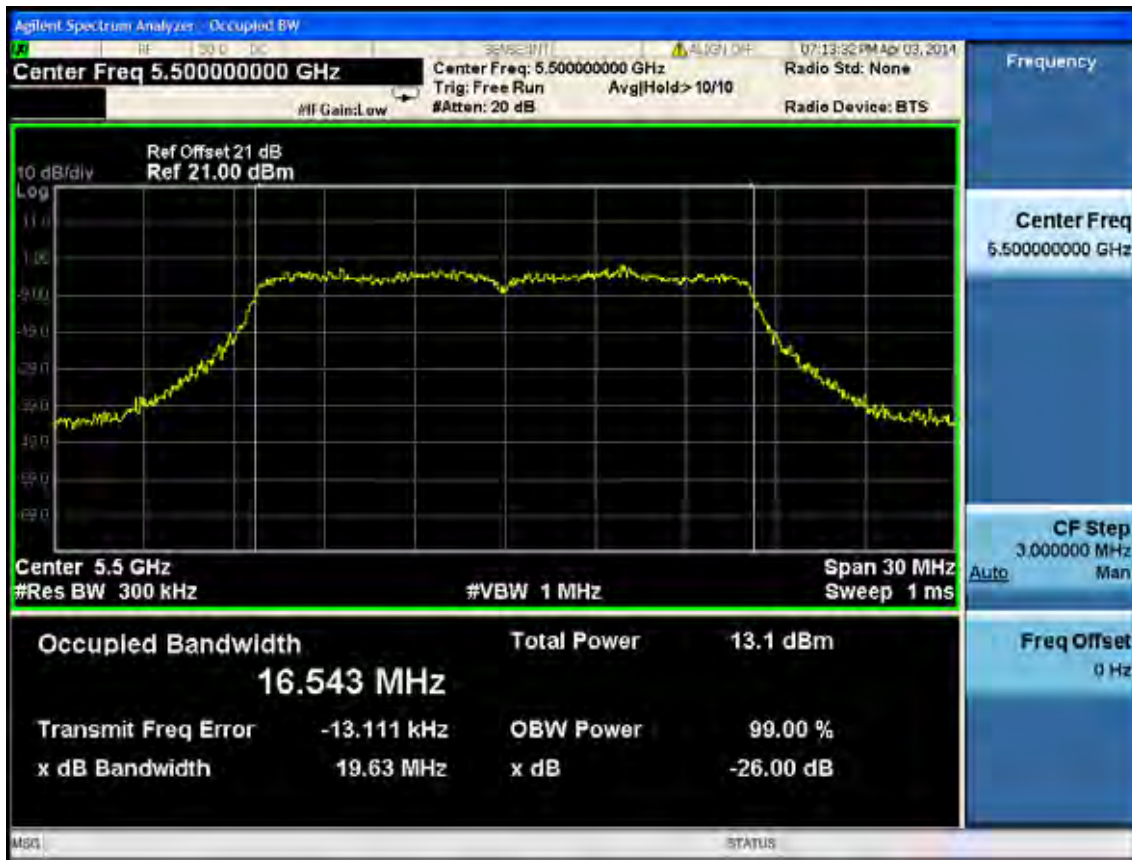


(5470-5725MHz) 26dB bandwidth:

ANT 0

11a

5500MHz



5600MHz



5700MHz



11nHT20

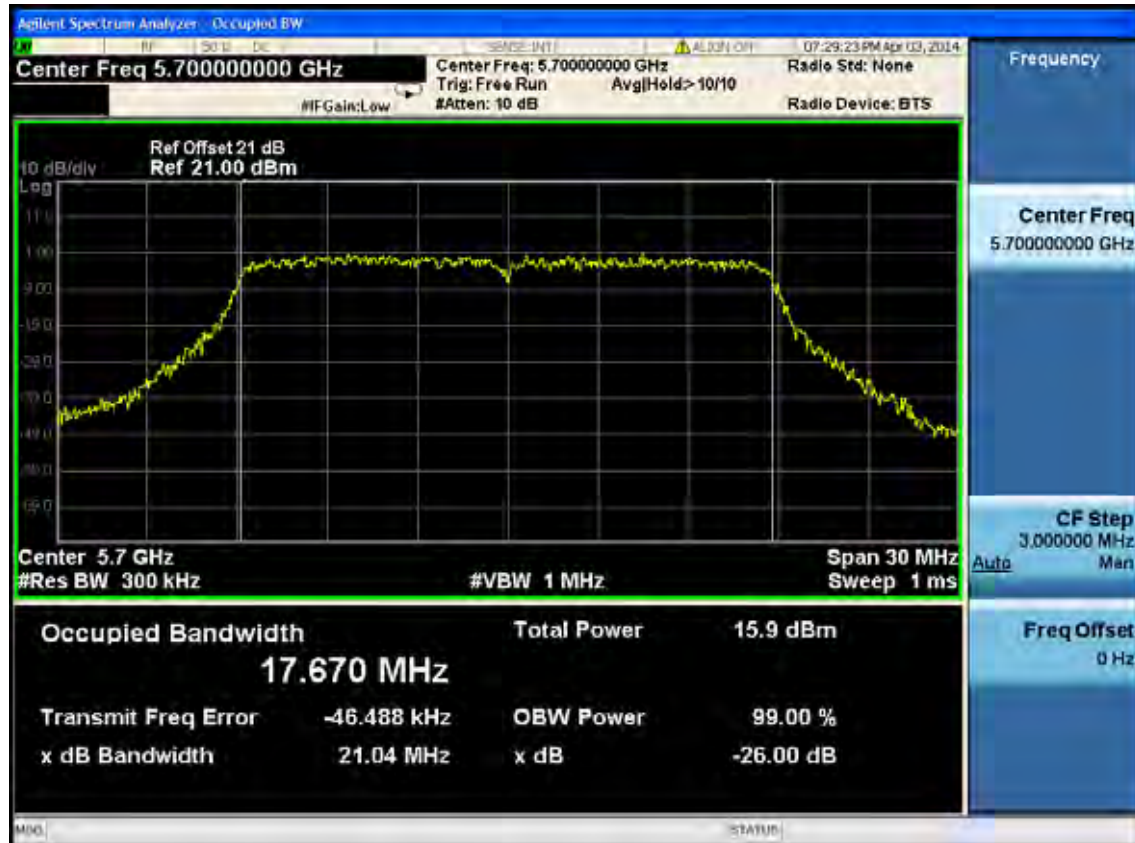
5500MHz



5600MHz



5700MHz



11nHT40

5510MHz



5670MHz



ANT 1

11a

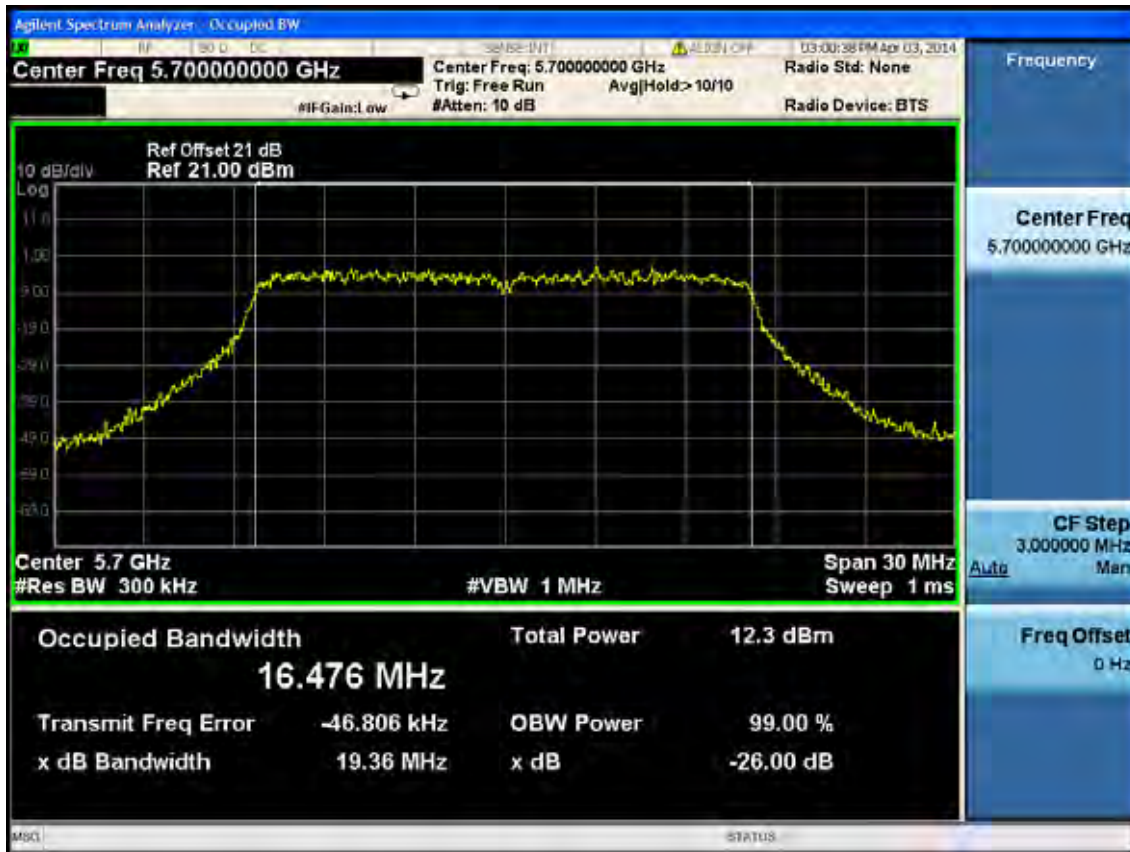
5500MHz



5600MHz



5700MHz



11nHT20

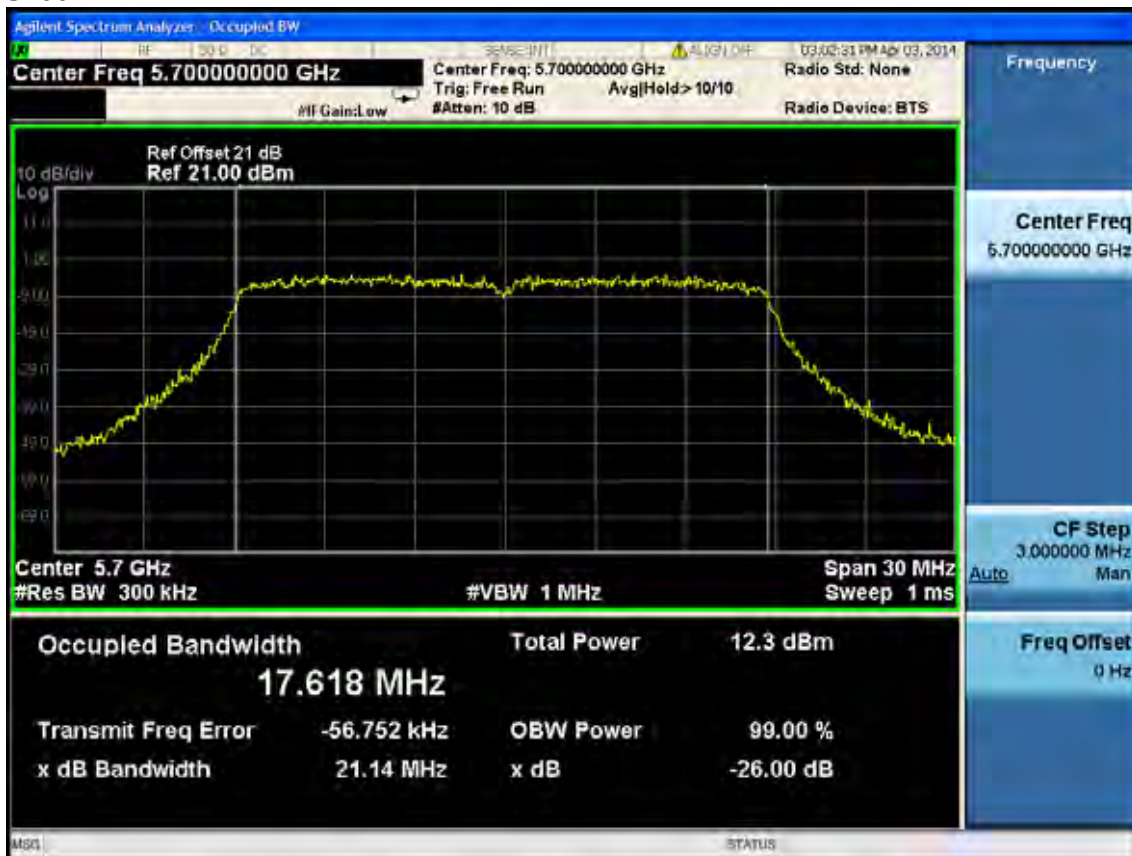
5500MHz



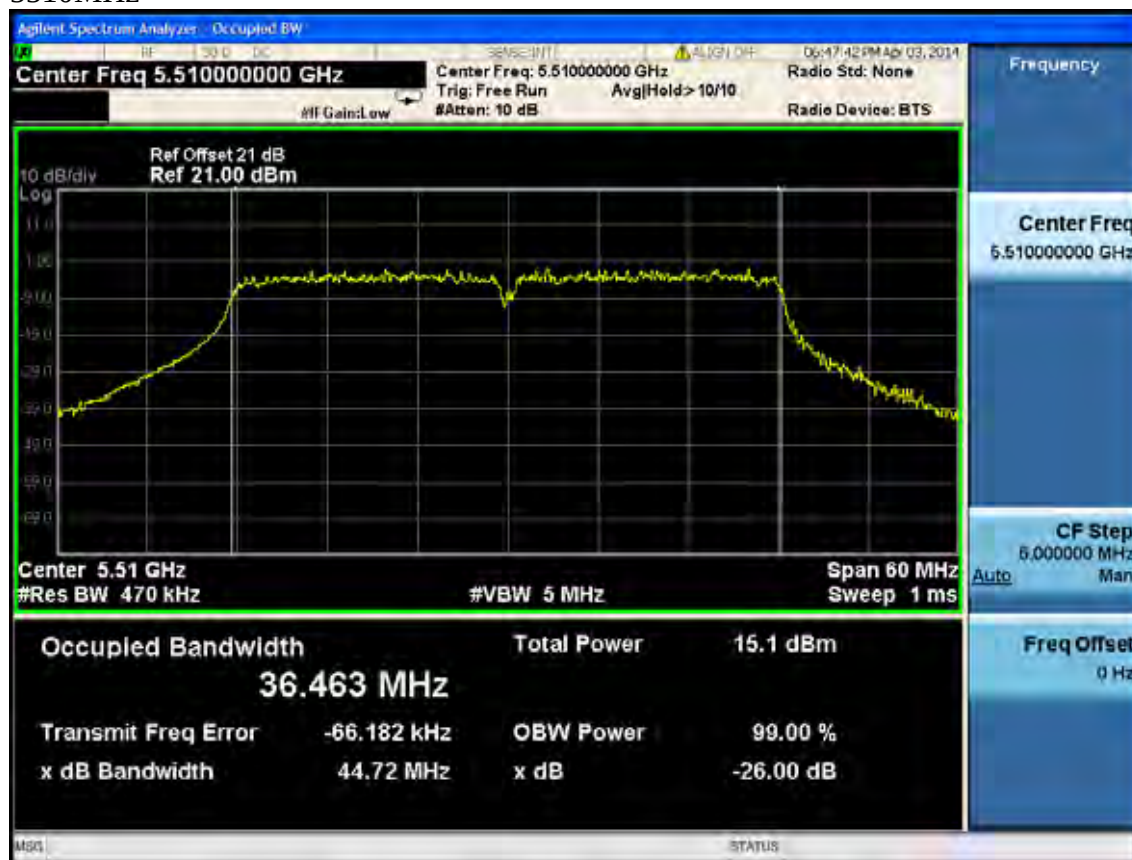
5600MHz



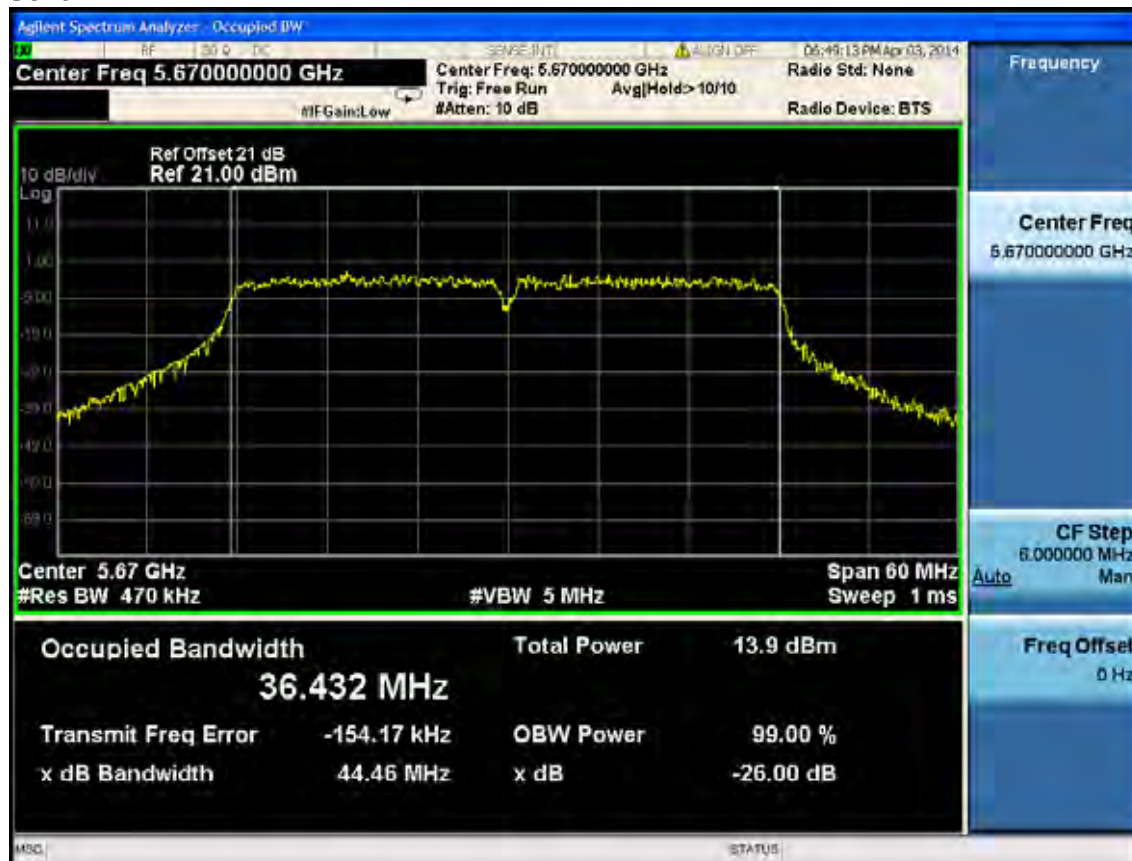
5700MHz



11nHT40
5510MHz



5670MHz



7. OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1 Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	1 Year

7.2. Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10 \log B$, For the 5250-5350MHz and 5.47-5.725GHz the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250mW or $11 \text{ dBm} + 10 \log B$. where B is the 26-dB emission bandwidth in MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3. Test Procedure

1. Connected the EUT's antenna port to measure device by 26dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
3. For IEEE802.11n HT40 and 802.11ac VHT40 & 80 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A.

So use the test method described in KBD789033 clause E.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4. Test Results

5150-5250MHz Band:

EUT: Wireless Speaker System					
M/N: SC-ALL3					
Test date: 2014-04-03		Pressure: 101.3±1.0 kpa		Humidity: 52.6±3.0%	
Tested by: Kevin_Hu		Test site: RF site		Temperature:22.3±0.6℃	
Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Peak output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
11a	5180	9.78	10.12	12.96	17
	5200	9.93	10.28	13.12	17
	5240	10.72	11.15	13.95	17
11n HT20	5180	9.56	9.21	12.40	17
	5200	10.03	9.87	12.96	17
	5240	10.41	10.74	13.59	17
11n HT40	5190	12.74	12.23	15.50	17
	5230	12.73	12.78	15.77	17
Conclusion: PASS					

5250-5350MHz Band:

EUT: Wireless Speaker System					
M/N: SC-ALL3					
Test date: 2014-04-03		Pressure: 101.3±1.0 kpa		Humidity: 52.6±3.0%	
Tested by: Kevin_Hu		Test site: RF site		Temperature:22.3±0.6℃	
Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Peak output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
11a	5260	16.48	16.35	19.43	24
	5300	16.26	16.75	19.52	24
	5320	16.15	16.89	19.55	24
11n HT20	5260	16.58	17.07	19.84	24
	5300	16.67	17.52	20.13	24
	5320	16.13	16.94	19.56	24
11n HT40	5270	18.07	18.41	21.25	24
	5310	14.58	15.25	17.94	24
Conclusion: PASS					

5470-5725MHz Band:

EUT: Wireless Speaker System					
M/N: SC-ALL3					
Test date: 2014-04-03		Pressure: 101.3±1.0 kpa		Humidity: 52.6±3.0%	
Tested by: Kevin_Hu		Test site: RF site		Temperature:22.3±0.6 °C	
Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Peak output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
11a	5500	14.66	15.31	18.01	24
	5600	15.12	15.33	18.24	24
	5700	16.25	14.74	18.57	24
11n HT20	5500	15.92	17.02	19.52	24
	5600	15.53	15.85	18.70	24
	5700	17.43	15.85	19.72	24
11n HT40	5510	18.87	19.45	22.18	24
	5670	19.91	18.72	22.37	24
Conclusion: PASS					

8. POWER SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	Aug.28, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

8.2. Limit

For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 5250-5350MHz, 5470-5725MHz shall not exceed 11dBm in any 1-MHz band.

8.3. Test Procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW

8.4.Test Results

5150-5250MHz Band:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.6±1.0 kpa	Humidity:52.6±3.0%
Tested by:Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Chain 0	Chain 1	Total	Limit
		(dBm/MHz)	(dBm/MHz)	(dBm/MHz)	(dBm/MHz)
11a	5180	-0.377	-0.588	2.53	4
	5200	-0.338	-0.323	2.68	4
	5240	0.116	0.462	3.30	4
11n HT20	5180	-0.942	-1.271	1.91	4
	5200	-0.839	-0.432	2.38	4
	5240	-0.098	-0.480	2.73	4
11n HT40	5190	-0.253	0.110	2.94	4
	5230	-0.037	0.085	3.03	4
Conclusion: PASS					

5250-5350MHz Band:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.6±1.0 kpa	Humidity:52.6±3.0%
Tested by:Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Chain 0	Chain 1	Total	Limit
		(dBm/MHz)	(dBm/MHz)	(dBm/MHz)	(dBm/MHz)
11a	5260	6.395	7.175	9.81	11
	5300	5.850	7.034	9.49	11
	5320	5.410	7.379	9.52	11
11n HT20	5260	7.093	6.864	9.99	11
	5300	6.384	6.860	9.64	11
	5320	6.752	6.575	9.67	11
11n HT40	5270	6.251	5.639	8.97	11
	5310	1.236	1.311	4.28	11
Conclusion: PASS					

5470-5725MHz Band:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.6±1.0 kpa	Humidity:52.6±3.0%
Tested by:Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Chain 0	Chain 1	Total	Limit
		(dBm/MHz)	(dBm/MHz)	(dBm/MHz)	(dBm/MHz)
11a	5500	4.013	6.684	8.56	11
	5600	5.009	6.739	8.97	11
	5700	6.549	6.514	9.54	11
11n HT20	5500	5.172	6.701	9.01	11
	5600	5.249	6.580	8.98	11
	5700	6.681	6.451	9.58	11
11n HT40	5510	6.014	6.824	9.45	11
	5670	6.947	6.366	9.68	11
Conclusion: PASS					

(5150-5250MHz):

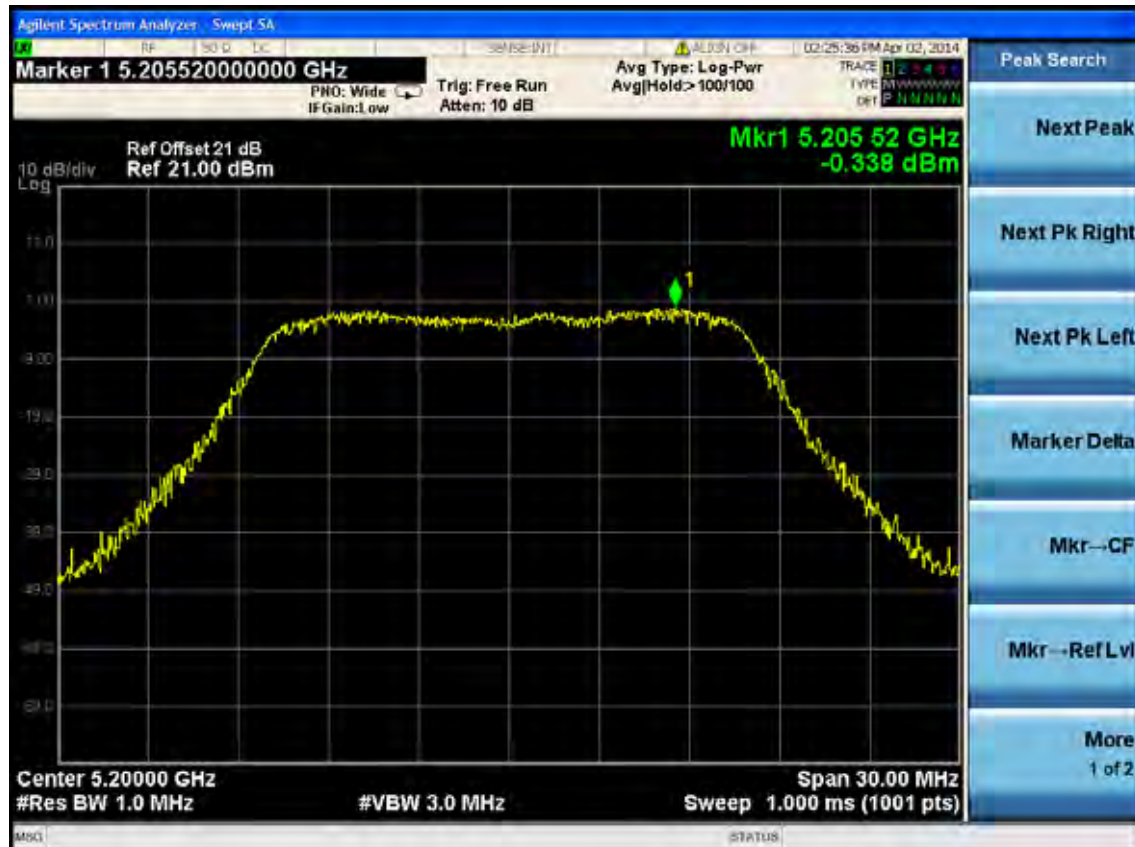
ANT 0

11a

5180MHz



5210MHz

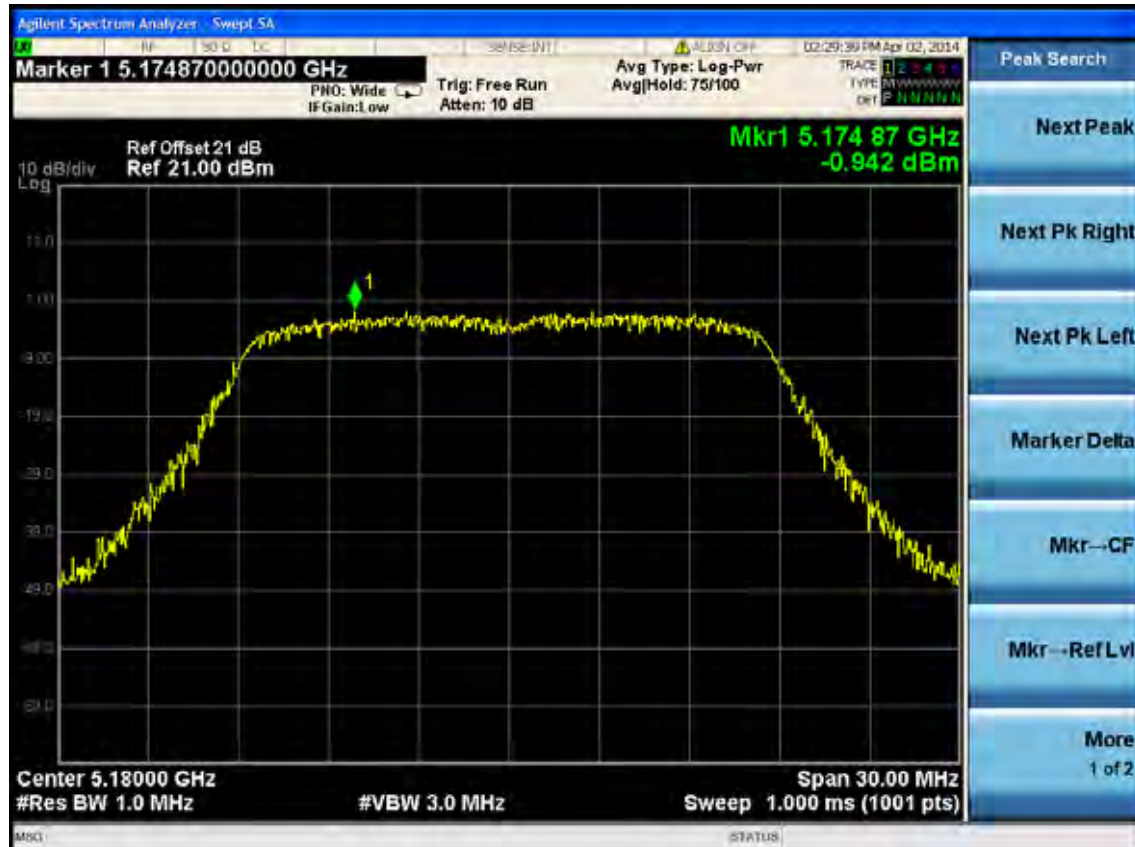


5240MHz



11nHT20

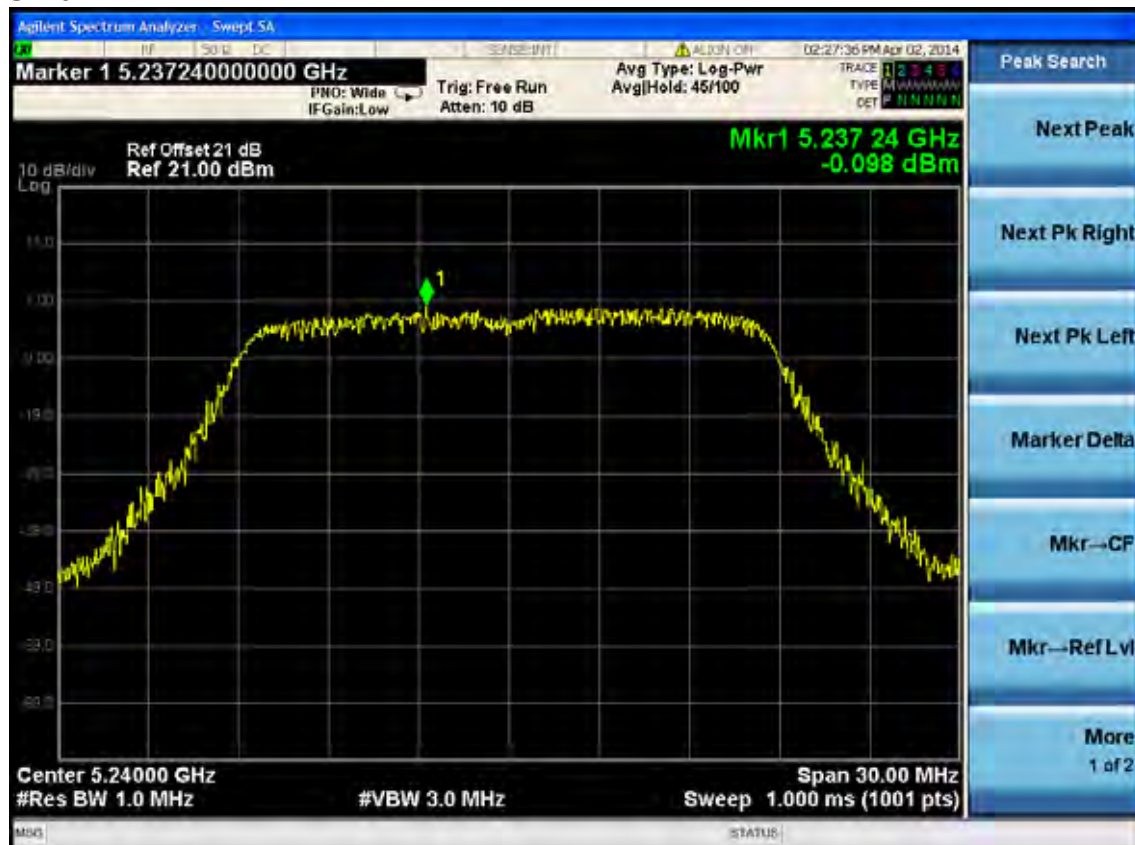
5180MHz



5210MHz



5240MHz



11nHT40
5190MHz



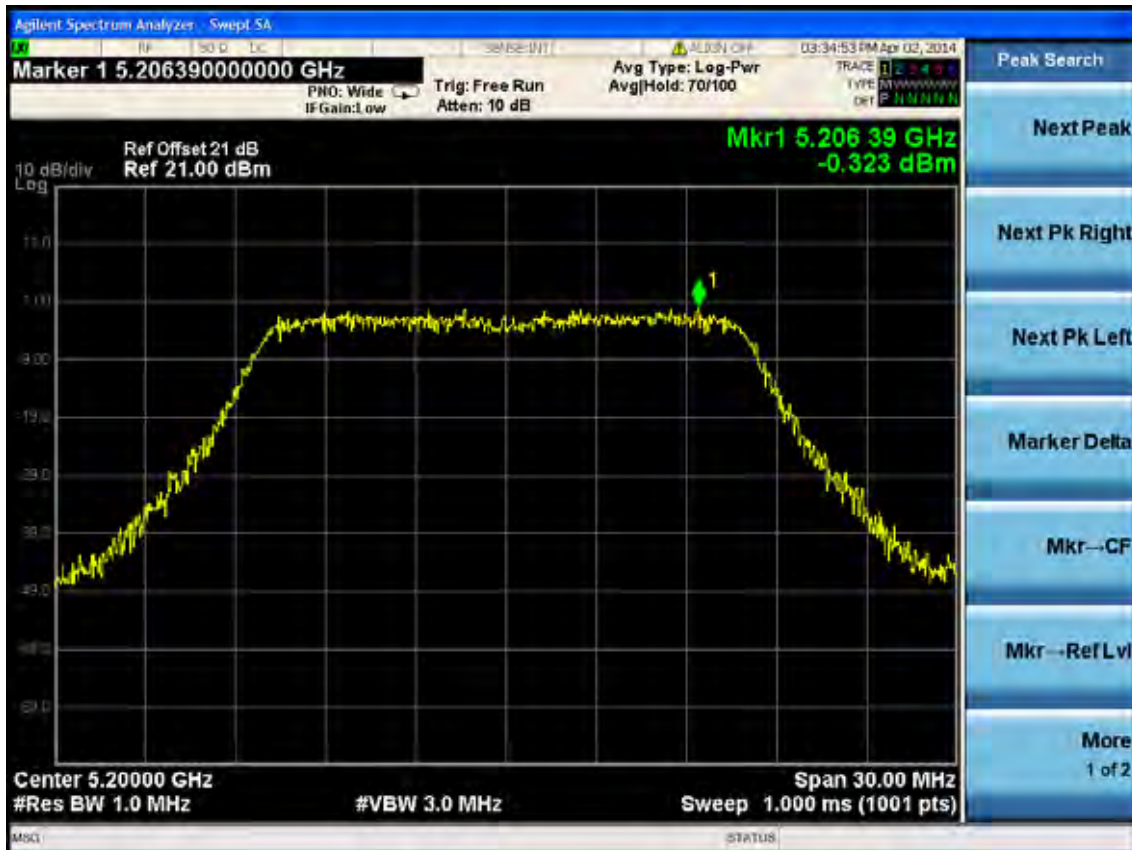
5230MHz



ANT 1
11a
5180MHz



5210MHz



5240MHz



11nHT20

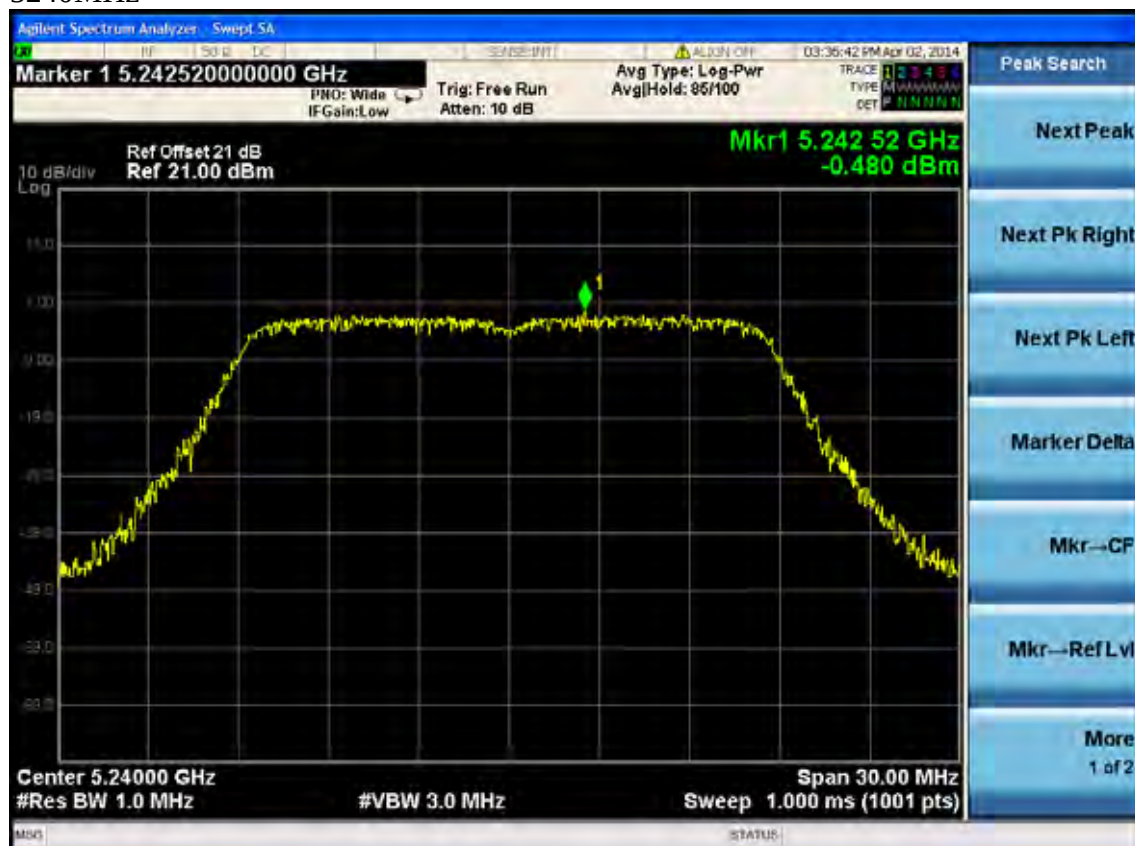
5180MHz



5210MHz



5240MHz



11nHT40
5190MHz



5230MHz



(5250-5350MHz):

ANT 0

11a

5260MHz



5300MHz



5320MHz



11nHT20

5260MHz



5300MHz



5320MHz



11nHT40
5270MHz



5310MHz



ANT 1
11a
5260MHz



5300MHz



5320MHz



11nHT20

5260MHz



5300MHz



5320MHz



11nHT40
5270MHz



5310MHz



(5470-5725MHz):

ANT 0

11a

5500MHz



5600MHz



5700MHz



11nHT20

5500MHz



5600MHz



5700MHz



11nHT40
5500MHz



5700MHz



ANT 1

11a

5500MHz



5600MHz



5700MHz



11nHT20

5500MHz



5600MHz



5700MHz



11nHT40
5500MHz



5700MHz



9. PEAK EXCURSION MEASUREMENT

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

9.2. Limit

The ratio of the peak excursion of modulation envelope (measured using a peak hold function) to the maximum conducted power (measured as specified above) shall not exceed 13 dB across any 1MHz bandwidth whichever is less.

9.3. Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set the spectrum analyzer span to view the entire emissions bandwidth. The largest difference between the following two traces (Peak Trace and Average Trace) must be ≤ 13 dB for all frequencies across the emissions bandwidth. Submit a plot.
3. Peak Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and max-hold settings.
4. Average Trace: Method #3—video averaging with max hold--and sum power across the band. Set span to encompass the entire emissions bandwidth (EBW) of the signal. Set sweep trigger to “free run”. Set RBW = 1 MHz. Set VBW $\geq 1/T$ (Draft n VBW = 300kHz $\geq 1/4 \mu s$). Use sample detector mode if bin width (i.e., span/number of points in spectrum) < 0.5 RBW. Otherwise use peak detector mode. Set max hold. Allow max hold to run for 60 seconds.

9.4.Test Results

5150-5250MHz:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.2±1.0 kpa	Humidity: 51.1±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature:22.3±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	Power excursion (dB)		Limit (dB)
		ANT 0	ANT 1	
11a	5180	2.218	2.195	13
	5200	2.262	2.115	13
	5240	2.287	3.036	13
11nHT20	5180	3.126	3.401	13
	5200	3.1	3.118	13
	5240	3.402	3.124	13
11nHT40	5190	3.769	2.664	13
	5230	3.583	3.73	13
Conclusion : PASS				

5250-5350MHz

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.2±1.0 kpa	Humidity: 51.1±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature : 22.3±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	Power excursion (dB)		Limit (dB)
		ANT 0	ANT 1	
11a	5260	2.557	4.177	13
	5300	3.175	4.542	13
	5320	3.588	4.731	13
11nHT20	5260	3.839	3.887	13
	5300	3.547	4.502	13
	5320	4.279	2.574	13
11nHT40	5270	2.746	4.298	13
	5310	3.059	1.523	13
Conclusion : PASS				

5470-5725MHz:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-03	Pressure: 101.2±1.0 kpa	Humidity: 51.1±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature : 22.3±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	Frequency (MHz)	Power excursion (dB)		Limit (dB)
		ANT 0	ANT 1	
11a	5500	1.455	3.206	13
	5600	1.813	3.78	13
	5700	1.942	2.431	13
11nHT20	5500	5.009	2.715	13
	5600	2.459	2.429	13
	5700	2.82	2.442	13
11nHT40	5510	3.554	2.853	13
	5670	1.856	3.214	13
Conclusion : PASS				

(5150-5250MHz):

ANT 0

11a

5180MHz



5210MHz



5240MHz



11nHT20

5180MHz



5210MHz



5240MHz



11nHT40
5190MHz



5230MHz



ANT 1
11a
5180MHz



5210MHz



5240MHz



11nHT20

5180MHz



5210MHz



5240MHz



11nHT40
5190MHz



5230MHz



(5250-5350MHz):

ANT 0

11a

5260MHz



5300MHz



5320MHz



11nHT20

5260MHz



5300MHz



5320MHz



11nHT40
5270MHz



5310MHz



ANT 1
11a
5260MHz



5300MHz



5320MHz



11nHT20

5260MHz



5300MHz



5320MHz



11nHT40
5270MHz



5310MHz



(5470-5725MHz):
ANT 0
11a
5500MHz



5600MHz



5700MHz



11nHT20

5500MHz



5600MHz



5700MHz



11nHT40
5500MHz



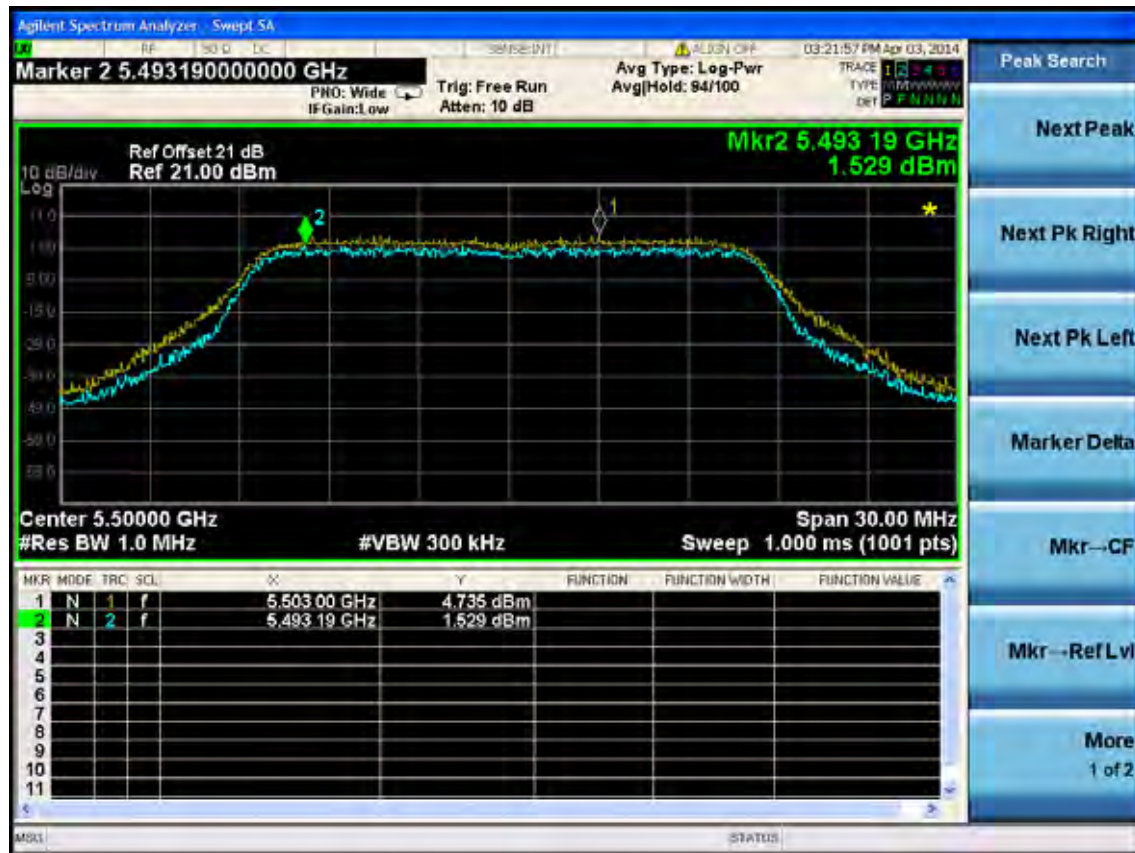
5700MHz



ANT 1

11a

5500MHz



5600MHz



5700MHz



11nHT20

5500MHz



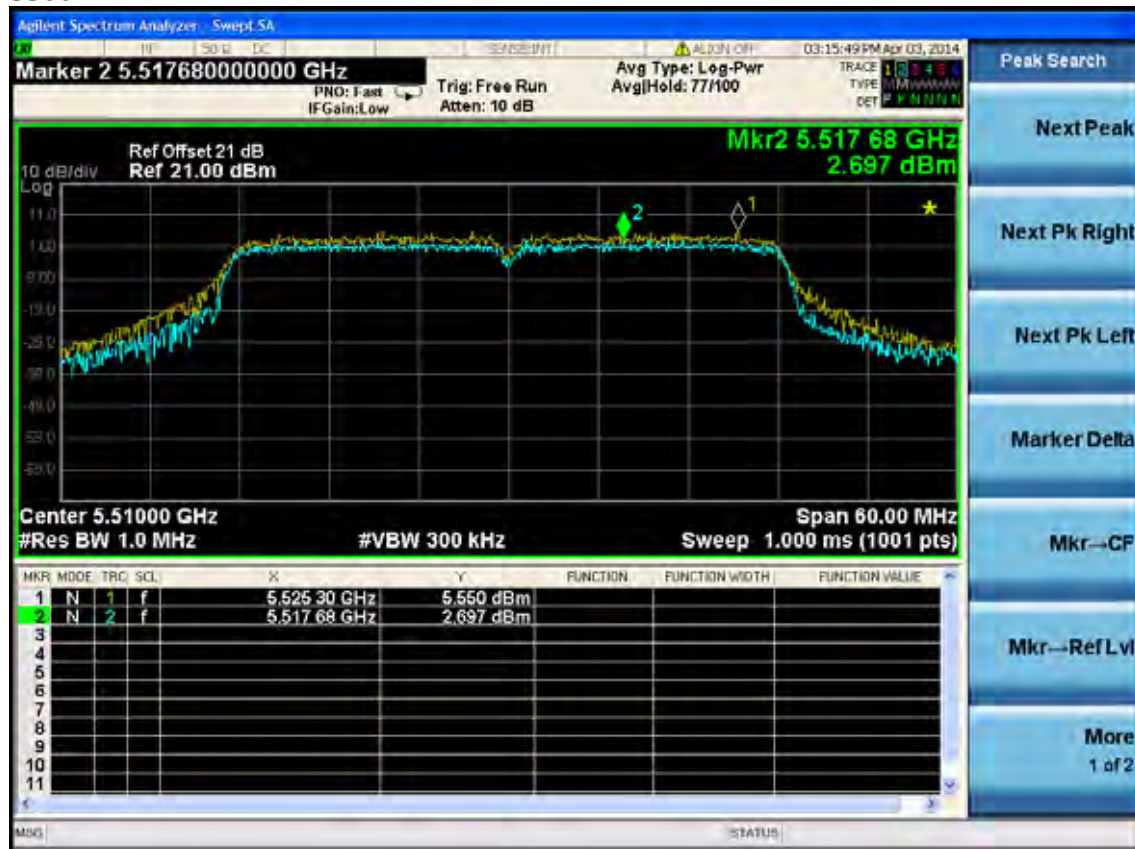
5600MHz



5700MHz



11nHT40
5500MHz



5700MHz



10. FREQUENCY STABILITY MEASUREMENT

10.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

10.2. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or $\pm 20\text{ppm}$

10.3. Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyser. EUT have transmitted absence of modulation signal and fixed channelize. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6 \text{ ppm}$ and the limit is less than $\pm 20\text{ppm}$ The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
2. Extreme temperature rule is $0^\circ\text{C} \sim 50^\circ\text{C}$.

10.4.Test Result

5150-5250MHz:

EUT:Wireless Speaker System						
M/N:SC-ALL3						
Power:AC 120V/60Hz						
Test date: 2014-04-03		Test site: RF Chamber		Tested by: Kevin_Hu		
Ambient Temperature: 21.9±1.0℃		Relative Humidity: 53.5±1.0%		Pressure:101.1±1.0 kpa		
Frequency stability VS Voltage (Temperature:20℃)						
Supply Voltage (V)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
102V	5180	5179.9745	0.0255	-4.92	+/-20	PASS
120V	5180	5179.9875				
138V	5180	5179.9895				
102V	5200	5199.9830	0.017	-3.27	+/-20	
120V	5200	5199.9900				
138V	5200	9199.9920				
102V	5240	5239.9780	0.022	-4.20	+/-20	
120V	5240	5239.9855				
138V	5240	5239.9885				
Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5180	5179.9810	0.0190	-3.67	+/-20	PASS
10℃	5180	5179.9835				
20℃	5180	5179.9875				
30℃	5180	5179.9890				
40℃	5180	5179.9905				
50℃	5180	5179.9920				

Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5200	5199.9870	0.013	-2.5	+/-20	PASS
10℃	5200	5199.9875				
20℃	5200	5199.9900				
30℃	5200	5199.9915				
40℃	5200	5199.9920				
50℃	5200	5199.9935				
Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5240	5239.9825	0.0175	-3.34	+/-20	PASS
10℃	5240	5239.9840				
20℃	5240	5239.9855				
30℃	5240	5239.9875				
40℃	5240	5239.9880				
50℃	5240	5239.9895				

5250-5350MHz

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Power:AC 120V/60Hz		
Test date: 2014-04-03	Test site: RF Chamber	Tested by: Kevin_Hu
Ambient Temperature: 21.9±1.0℃	Relative Humidity: 53.5±1.0%	Pressure:101.1±1.0 kpa

Frequency stability VS Voltage (Temperature:20℃)

Supply Voltage (V)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
102V	5260	5259.9785	0.0215	-4.09	+/-20	PASS
120V	5260	5259.9805				
138V	5260	5259.9820				
102V	5300	5299.9750	0.025	-4.72	+/-20	
120V	5300	5299.9795				
138V	5300	5299.9815				
102V	5320	5319.9705	0.0295	-5.55	+/-20	
120V	5320	5319.9735				
138V	5320	5319.9760				

Frequency stability VS Temperature (supply voltage AC 120V/60Hz)

Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5260	5259.9785	0.0215	-4.09	+/-20	PASS
10℃	5260	5259.9790				
20℃	5260	5259.9805				
30℃	5260	5259.9815				
40℃	5260	5259.9820				
50℃	5260	5259.9835				

Frequency stability VS Temperature (supply voltage AC 120V/60Hz)

Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5300	5299.9780	0.022	-4.15	+/-20	PASS
10℃	5300	5299.9785				
20℃	5300	5299.9795				

30℃	5300	5299.9810				
40℃	5300	5299.9825				
50℃	5300	5299.9840				
Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5320	5319.9720	0.028	-5.26	+/-20	PASS
10℃	5320	5319.9725				
20℃	5320	5319.9735				
30℃	5320	5319.9755				
40℃	5320	5319.9760				
50℃	5320	5319.9775				

5470-5725MHz:

EUT:Wireless Speaker System						
M/N:SC-ALL3						
Power:AC 120V/60Hz						
Test date: 2014-04-03		Test site: RF Chamber		Tested by: Kevin_Hu		
Ambient Temperature: 21.9±1.0℃		Relative Humidity: 53.5±1.0%		Pressure:101.1±1.0 kpa		
Frequency stability VS Voltage (Temperature:20℃)						
Supply Voltage （V）	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
102V	5500	5499.9545	0.0455	-8.27	+/-20	PASS
120V	5500	5499.9580				
138V	5500	5499.9605				
102V	5600	5599.9530	0.047	-8.39	+/-20	
120V	5600	5599.9575				
138V	5600	5599.9595				
102V	5700	5699.9565	0.0435	-7.63	+/-20	
120V	5700	5699.9580				
138V	5700	5699.9615				
Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature （℃）	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5500	5499.9555	0.0445	-8.09	+/-20	PASS
10℃	5500	5499.9565				
20℃	5500	5499.9580				
30℃	5500	5499.9595				
40℃	5500	5499.9600				
50℃	5500	5499.9615				

Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5600	5599.9560	0.044	-7.86	+/-20	PASS
10℃	5600	5599.9565				
20℃	5600	5599.9575				
30℃	5600	5599.9585				
40℃	5600	5599.9590				
50℃	5600	5599.9610				
Frequency stability VS Temperature (supply voltage AC 120V/60Hz)						
Temperature (℃)	Test frequency (MHz)	Test result (MHz)	Max Deviation (MHz)	Max Deviation (ppm)	Limit (ppm)	Conclusion
0℃	5700	5699.9560	0.044	-7.72	+/-20	PASS
10℃	5700	5699.9575				
20℃	5700	5699.9580				
30℃	5700	5699.9595				
40℃	5700	5699.9615				
50℃	5700	5699.9620				

11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

11.2. Estimation Result

5150-5250MHz Band:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.2±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:20.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 2.9dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH36	5180	12.96	19.77	2.9	1.95	0.0077
	CH40	5200	13.12	20.51	2.9	1.95	0.0080
	CH48	5240	13.95	24.83	2.9	1.95	0.0096
11n HT20	CH36	5180	12.40	17.38	2.9	1.95	0.0067
	CH40	5200	12.96	19.77	2.9	1.95	0.0077
	CH48	5240	13.59	22.86	2.9	1.95	0.0089
11n HT40	CH38	2422	15.50	35.48	2.9	1.95	0.0138
	CH46	2452	15.77	37.76	2.9	1.95	0.0147

5250-5350MHz Band:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.3±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 2.9dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH52	5260	19.43	87.70	2.9	1.95	0.0340
	CH60	5300	19.52	89.54	2.9	1.95	0.0347
	CH64	5320	19.55	90.16	2.9	1.95	0.0350
11n HT20	CH52	5260	19.84	96.38	2.9	1.95	0.0374
	CH60	5300	20.13	103.04	2.9	1.95	0.0400
	CH64	5320	19.56	90.36	2.9	1.95	0.0351
11n HT40	CH54	5270	21.25	133.35	2.9	1.95	0.0518
	CH62	5310	17.94	62.23	2.9	1.95	0.0242

5470-5725MHz Band:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.3±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 3.4dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH100	5500	18.01	63.24	3.4	2.19	0.0275
	CH120	5600	18.24	66.68	3.4	2.19	0.0290
	CH140	5700	18.57	71.94	3.4	2.19	0.0313
11n HT20	CH100	5500	19.52	89.54	3.4	2.19	0.0390
	CH120	5600	18.70	74.13	3.4	2.19	0.0323
	CH140	5700	19.72	93.76	3.4	2.19	0.0408
11n HT40	CH102	5510	22.18	165.20	3.4	2.19	0.0719
	CH134	5670	22.37	172.58	3.4	2.19	0.0752

12. ANTENNA REQUIREMENT

12.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are IFA antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 4.3dBi.

13.DEVIATION TO TEST SPECIFICATIONS

[NONE]