

8.7 AC Conducted Emissions (MHz)

	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 1 & 802.11a & ANT 1 & 5200 MHz

Results of Conducted Emission

DTNC

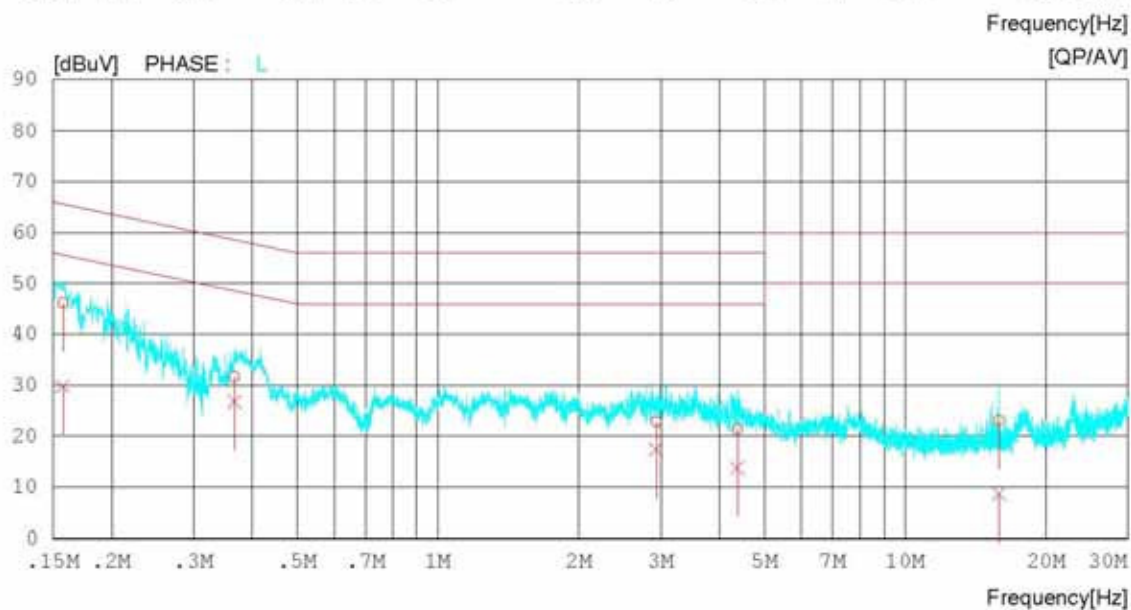
Date : 2015-11-25

Order No. :
Model No. : LG14Z96
Serial No. : Identical prototype
Test Condition : 802.11a / 5200MHz

Reference No. :
Power Supply : 120V / 60Hz
Temp/Humi. : 21 'C / 42 % R.H.
Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 1 & 802.11a & ANT 1 & 5200 MHz

Results of Conducted Emission

DTNC

Date : 2015-11-25

Order No. :
 Model No. : LG14Z96
 Serial No. : Identical prototype
 Test Condition : 802.11a / 5200MHz

Reference No. :
 Power Supply : 120V / 60Hz
 Temp/Humi. : 21 'C / 42 % R.H.
 Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15071	36.6	19.7	10.1	46.7	29.8	66.0	56.0	19.3	26.2	N
2	0.40912	22.5	17.5	10.1	32.6	27.6	57.7	47.7	25.1	20.1	N
3	2.91000	11.5	5.4	10.2	21.7	15.6	56.0	46.0	34.3	30.4	N
4	4.47980	13.1	6.0	10.2	23.3	16.2	56.0	46.0	32.7	29.8	N
5	15.88700	11.3	-1.6	10.6	21.9	9.0	60.0	50.0	38.1	41.0	N
6	0.15732	36.0	19.6	10.1	46.1	29.7	65.6	55.6	19.5	25.9	L
7	0.36658	21.5	16.6	10.1	31.6	26.7	58.6	48.6	27.0	21.9	L
8	2.93120	12.6	7.1	10.2	22.8	17.3	56.0	46.0	33.2	28.7	L
9	4.37120	11.1	3.6	10.2	21.3	13.8	56.0	46.0	34.7	32.2	L
10	15.86640	12.2	-2.0	10.8	23.0	8.8	60.0	50.0	37.0	41.2	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2A & 802.11a & ANT 1 & 5300 MHz

Results of Conducted Emission

DTNC

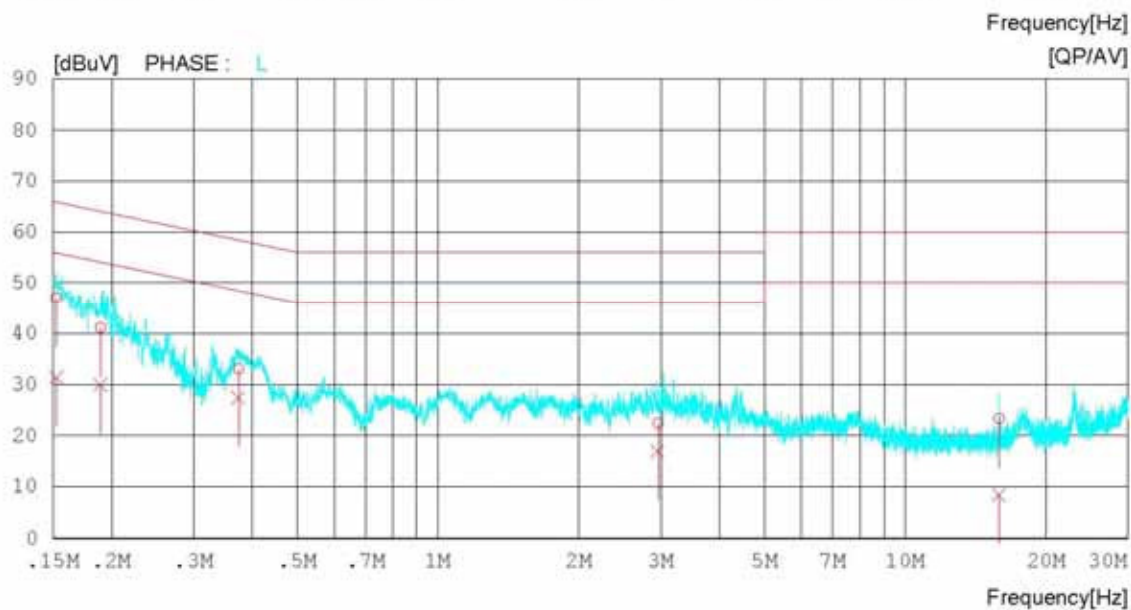
Date : 2015-11-25

Order No. :
Model No. : LG14Z96
Serial No. : Identical prototype
Test Condition : 802.11a / 5300MHz

Reference No. :
Power Supply : 120V / 60Hz
Temp/Humi. : 21 'C / 42 % R.H.
Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2A & 802.11a & ANT 1 & 5300 MHz

Results of Conducted Emission

DTNC

Date : 2015-11-25

Order No. :
 Model No. : LG14Z96
 Serial No. : Identical prototype
 Test Condition : 802.11a / 5300MHz

Reference No. :
 Power Supply : 120V / 60Hz
 Temp/Humi. : 21 'C / 42 % R.H.
 Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15273	36.1	20.8	10.1	46.2	30.9	65.9	55.9	19.7	25.0	N
2	0.20695	25.9	15.9	10.1	36.0	26.0	63.3	53.3	27.3	27.3	N
3	0.37830	23.4	17.9	10.1	33.5	28.0	58.3	48.3	24.8	20.3	N
4	3.07360	11.9	4.7	10.2	22.1	14.9	56.0	46.0	33.9	31.1	N
5	15.88900	11.7	-1.8	10.6	22.3	8.8	60.0	50.0	37.7	41.2	N
6	0.15229	36.8	21.2	10.1	46.9	31.3	65.9	55.9	19.0	24.6	L
7	0.18956	31.0	19.8	10.1	41.1	29.9	64.1	54.1	23.0	24.2	L
8	0.37392	22.9	17.3	10.1	33.0	27.4	58.4	48.4	25.4	21.0	L
9	2.95640	12.2	6.6	10.2	22.4	16.8	56.0	46.0	33.6	29.2	L
10	15.89040	12.4	-2.3	10.8	23.2	8.5	60.0	50.0	36.8	41.5	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2C & 802.11a & ANT 1 & 5580 MHz

Results of Conducted Emission

DTNC

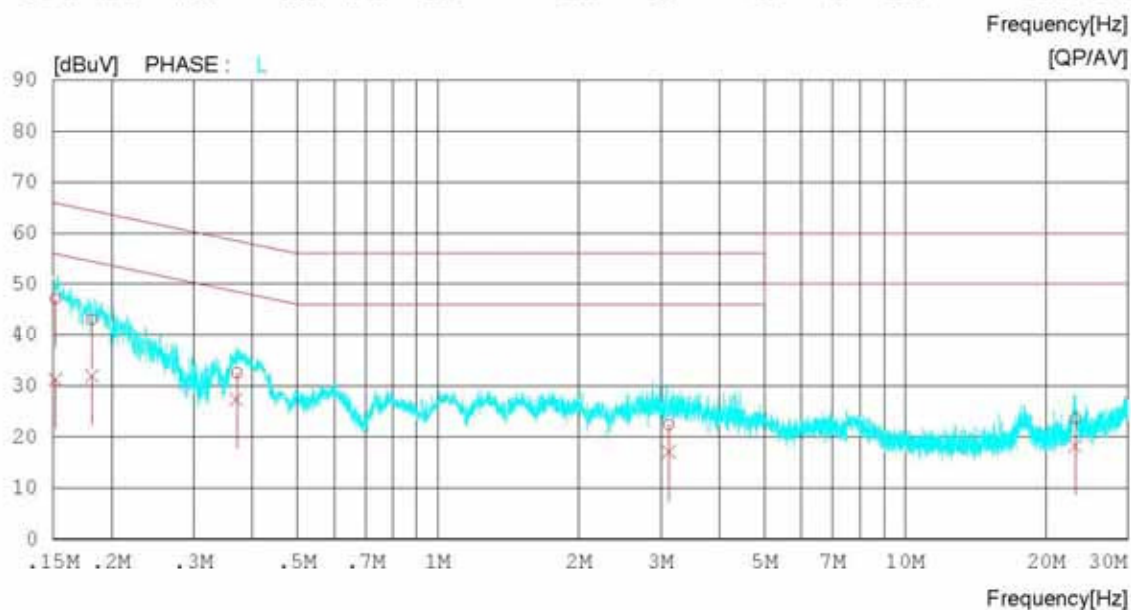
Date : 2015-11-25

Order No. :
Model No. : LG14Z96
Serial No. : Identical prototype
Test Condition : 802.11a / 5580MHz

Reference No. :
Power Supply : 120V / 60Hz
Temp/Humi. : 21 'C / 42 % R.H.
Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2C & 802.11a & ANT 1 & 5580 MHz

Results of Conducted Emission

DTNC

Date : 2015-11-25

Order No. :
 Model No. : LG14Z96
 Serial No. : Identical prototype
 Test Condition : 802.11a / 5580MHz

Reference No. :
 Power Supply : 120V / 60Hz
 Temp/Humi. : 21 'C / 42 % R.H.
 Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15500	35.7	21.4	10.1	45.8	31.5	65.7	55.7	19.9	24.2	N
2	0.18099	31.5	21.6	10.1	41.6	31.7	64.4	54.4	22.8	22.7	N
3	0.37846	23.4	17.8	10.1	33.5	27.9	58.3	48.3	24.8	20.4	N
4	2.99880	11.7	4.9	10.2	21.9	15.1	56.0	46.0	34.1	30.9	N
5	23.13000	13.0	7.6	10.9	23.9	18.5	60.0	50.0	36.1	31.5	N
6	0.15173	36.9	21.0	10.1	47.0	31.1	65.9	55.9	18.9	24.8	L
7	0.18173	32.8	21.8	10.1	42.9	31.9	64.4	54.4	21.5	22.5	L
8	0.37050	22.3	17.2	10.1	32.4	27.3	58.5	48.5	26.1	21.2	L
9	3.11560	12.2	6.8	10.2	22.4	17.0	56.0	46.0	33.6	29.0	L
10	23.13220	12.4	7.1	11.1	23.5	18.2	60.0	50.0	36.5	31.8	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 3 & 802.11a & ANT 1 & 5785 MHz

Results of Conducted Emission

DTNC

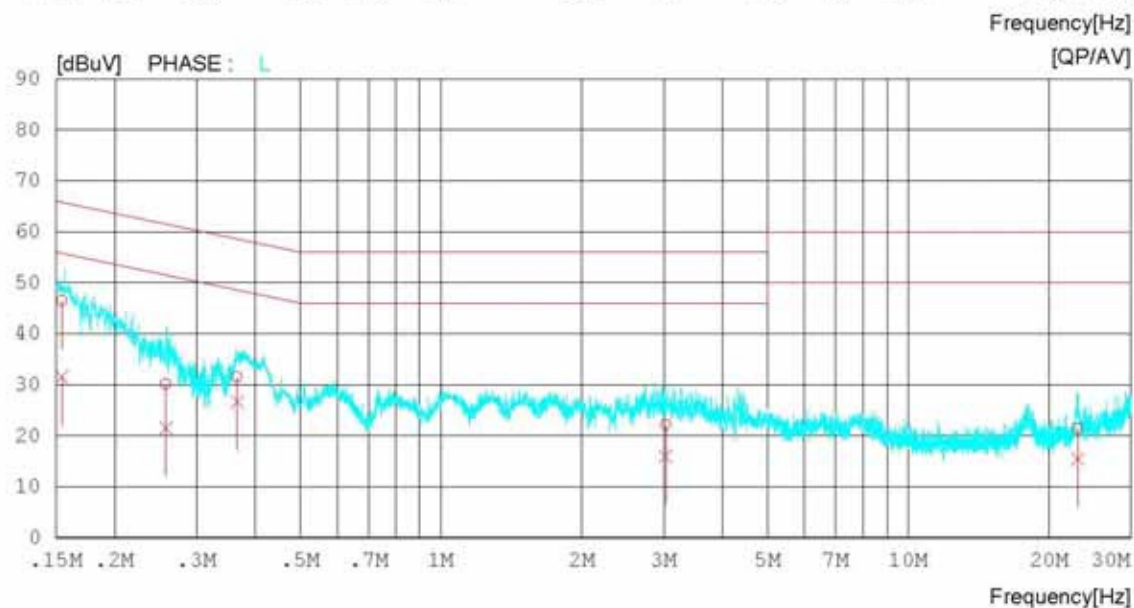
Date : 2015-11-25

Order No. :
Model No. : LG14Z96
Serial No. : Identical prototype
Test Condition : 802.11a / 5785MHz

Reference No. :
Power Supply : 120V / 60Hz
Temp/Humi. : 21 'C / 42 % R.H.
Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 3 & 802.11a & ANT 1 & 5785 MHz

Results of Conducted Emission

DTNC

Date : 2015-11-25

Order No. :
 Model No. : LG14Z96
 Serial No. : Identical prototype
 Test Condition : 802.11a / 5785MHz

Reference No. :
 Power Supply : 120V / 60Hz
 Temp/Humi. : 21 'C / 42 % R.H.
 Operator : I.H.BAE

Memo :

LIMIT : CISPR22_B QP
 CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15694	35.4	20.4	10.1	45.5	30.5	65.6	55.6	20.1	25.1	N
2	0.25301	19.7	12.0	10.1	29.8	22.1	61.7	51.7	31.9	29.6	N
3	0.38436	23.0	17.9	10.1	33.1	28.0	58.2	48.2	25.1	20.2	N
4	2.91120	11.6	5.4	10.2	21.8	15.6	56.0	46.0	34.2	30.4	N
5	23.13120	12.5	7.1	10.9	23.4	18.0	60.0	50.0	36.6	32.0	N
6	0.15438	36.3	21.4	10.1	46.4	31.5	65.8	55.8	19.4	24.3	L
7	0.25762	19.9	11.4	10.1	30.0	21.5	61.5	51.5	31.5	30.0	L
8	0.36568	21.4	16.5	10.1	31.5	26.6	58.6	48.6	27.1	22.0	L
9	3.02560	11.9	5.8	10.2	22.1	16.0	56.0	46.0	33.9	30.0	L
10	23.08880	10.3	4.3	11.1	21.4	15.4	60.0	50.0	38.6	34.6	L

8.8 Occupied Bandwidth

Multiple transmit

Mode	Bands	Channel	Frequency [MHz]	Test Result [MHz]	
				ANT 1	ANT 2
802.11n HT20	U-NII 1	36	5180	17.622	17.644
		40	5200	17.720	17.657
		48	5240	17.694	17.607
	U-NII 2A	52	5260	17.664	17.642
		60	5300	17.618	17.619
		64	5320	17.645	17.608
	U-NII 2C	100	5500	17.656	17.646
		116	5580	17.683	17.701
		140	5700	17.664	17.659
	U-NII 3	149	5745	17.670	17.627
		157	5785	17.651	17.637
		165	5825	17.650	17.638
802.11n HT40	U-NII 1	38	5190	36.019	36.077
		46	5230	36.029	35.961
	U-NII 2A	54	5270	36.069	36.088
		62	5310	36.045	36.069
	U-NII 2C	102	5510	36.035	36.065
		110	5550	36.056	36.152
		134	5670	36.027	36.115
	U-NII 3	151	5755	36.036	36.053
		159	5795	36.037	36.068
802.11ac VHT80	U-NII 1	42	5210	75.254	75.228
	U-NII 2A	58	5290	75.420	75.281
	U-NII 2C	106	5530	75.210	75.248
	U-NII 3	155	5775	75.343	75.270
802.11ac (VHT20)	Cross Band	144	5720	18.009	17.769
802.11ac (VHT40)	Cross Band	142	5710	36.239	36.351
802.11ac VHT80	Cross Band	138	5690	75.410	75.605



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.48





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.52



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.60





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.64





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.100



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.116





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.140





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.149



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.157





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 1 & Ch.165





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 1 & Ch.36



Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 1 & Ch.40





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 1 & Ch.48





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.52



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.60





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.64





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.100



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.116





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.140





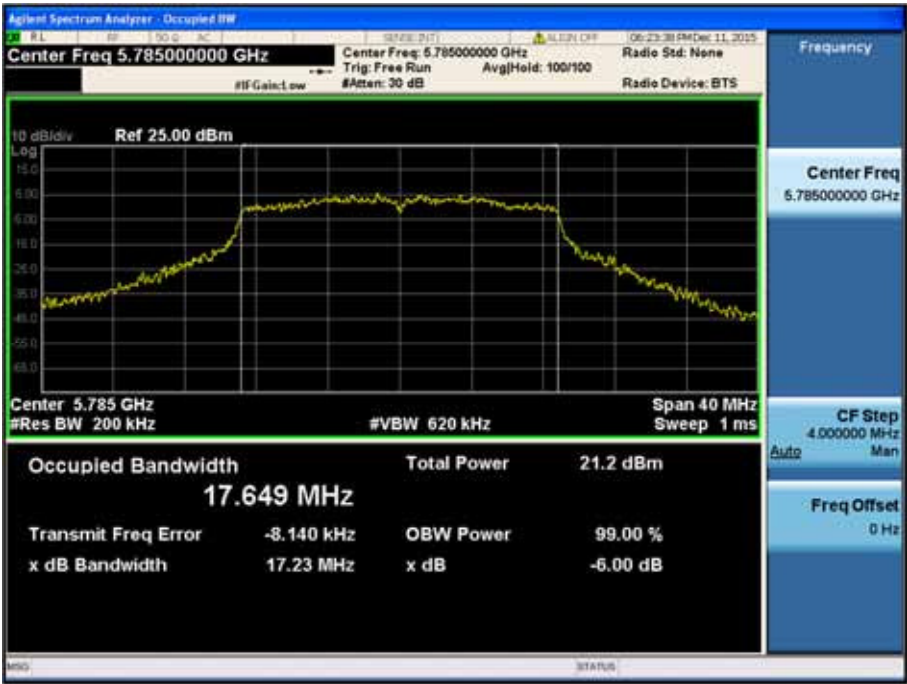
Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.149



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.157





Occupied Bandwidth 99%

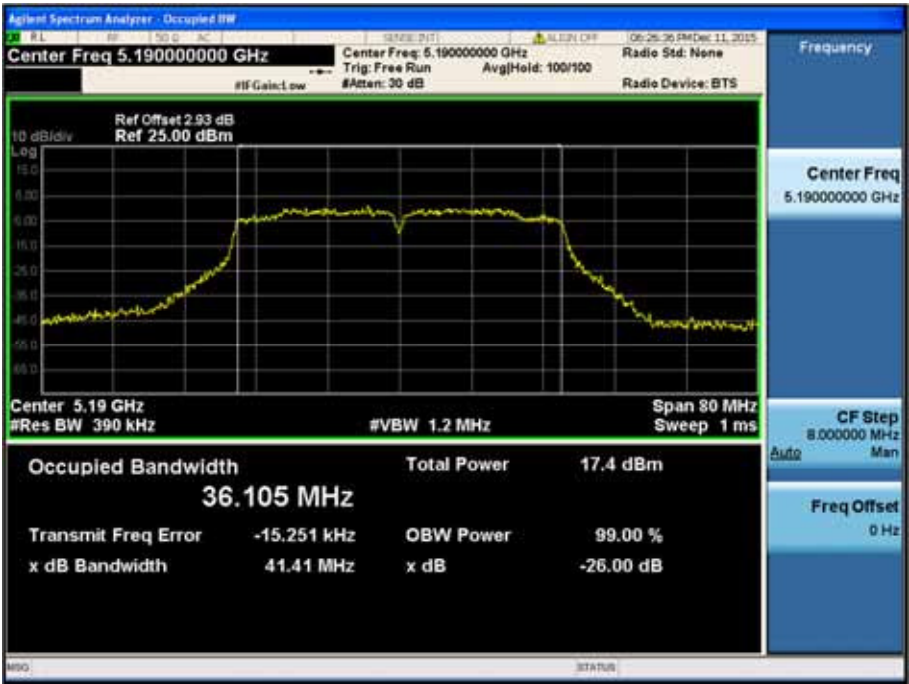
Test Mode: 802.11n HT20 & ANT 1 & Ch.165





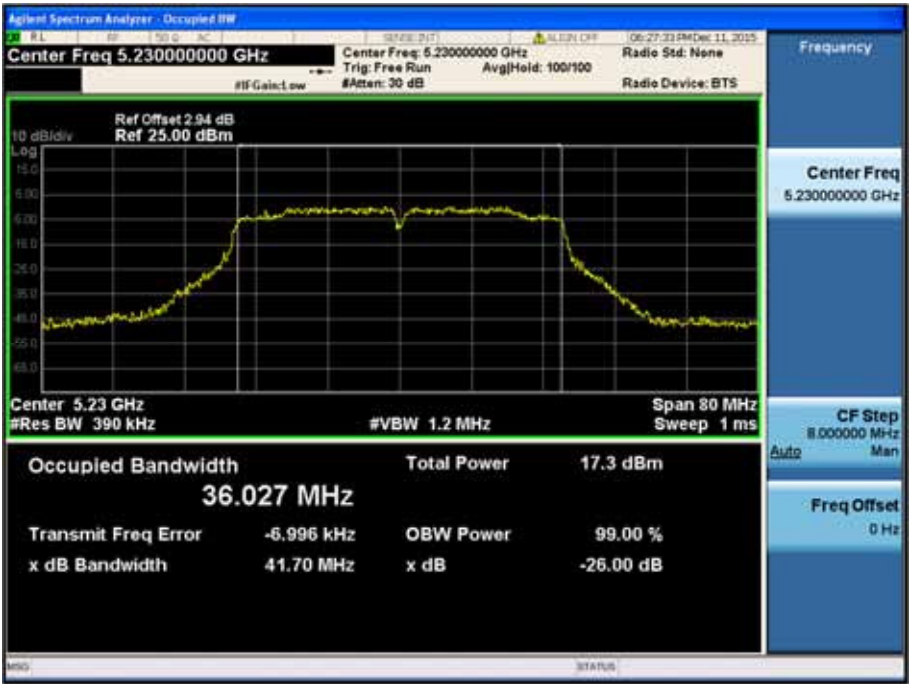
Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.38



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.46





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.54



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.62





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.102



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.110





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.134





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.151



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.159





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.42



Occupied Bandwidth 99%

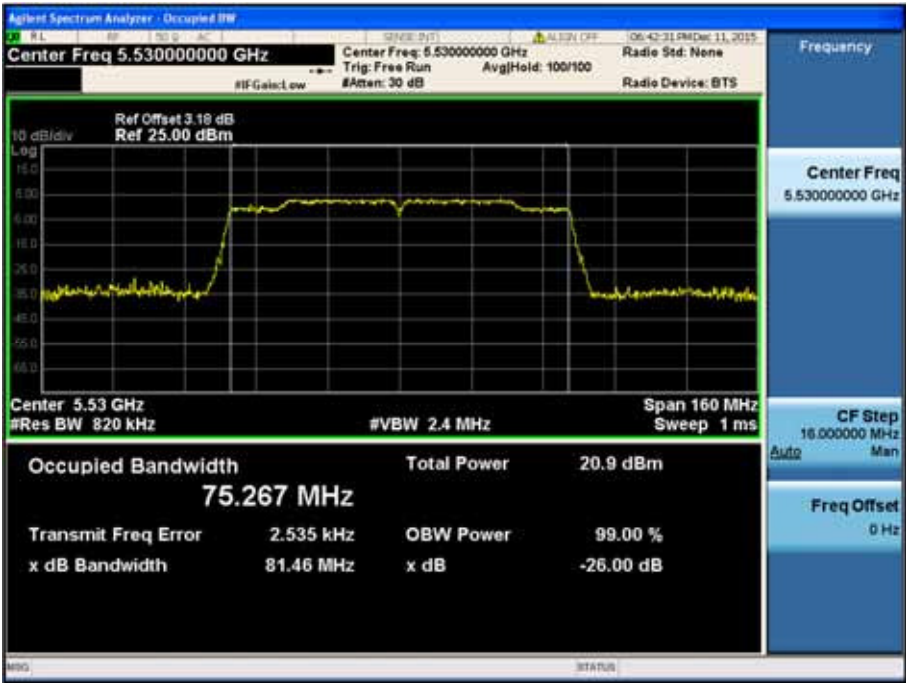
Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.58





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.106



Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.155





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT20 & ANT 1 & Ch.144



Occupied Bandwidth 99%

Test Mode: 802.11ac VHT40 & ANT 1 & Ch.142





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.138





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.36



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.40





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.48





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.52



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.60





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.64





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.100



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.116





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.140





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.149



Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.157





Occupied Bandwidth 99%

Test Mode: 802.11a & ANT 2 & Ch.165





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 2 & Ch.36



Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 2 & Ch.40





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 2 & Ch.48





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.52



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.60





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.64





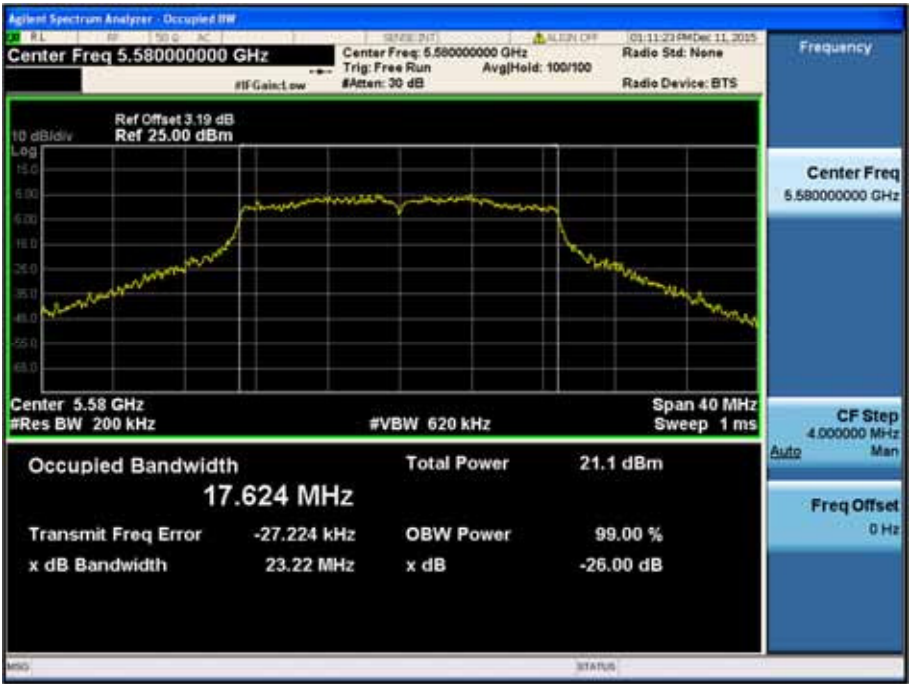
Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.100



Occupied Bandwidth 99%

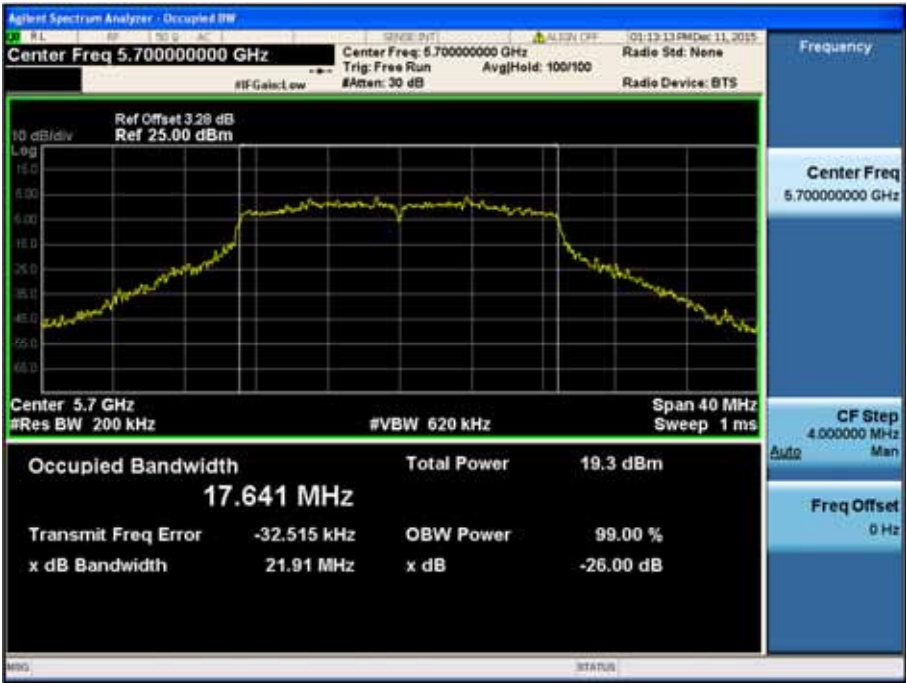
Test Mode: 802.11n HT20 & ANT 2 & Ch.116





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.140





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.149



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.157





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.165





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.38



Occupied Bandwidth 99%

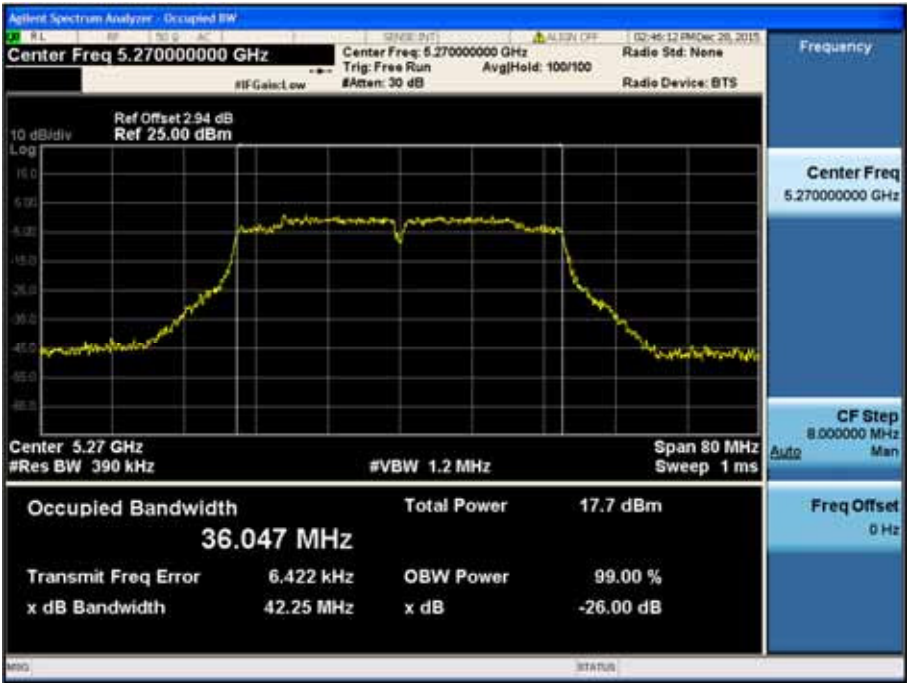
Test Mode: 802.11n HT40 & ANT 2 & Ch.46





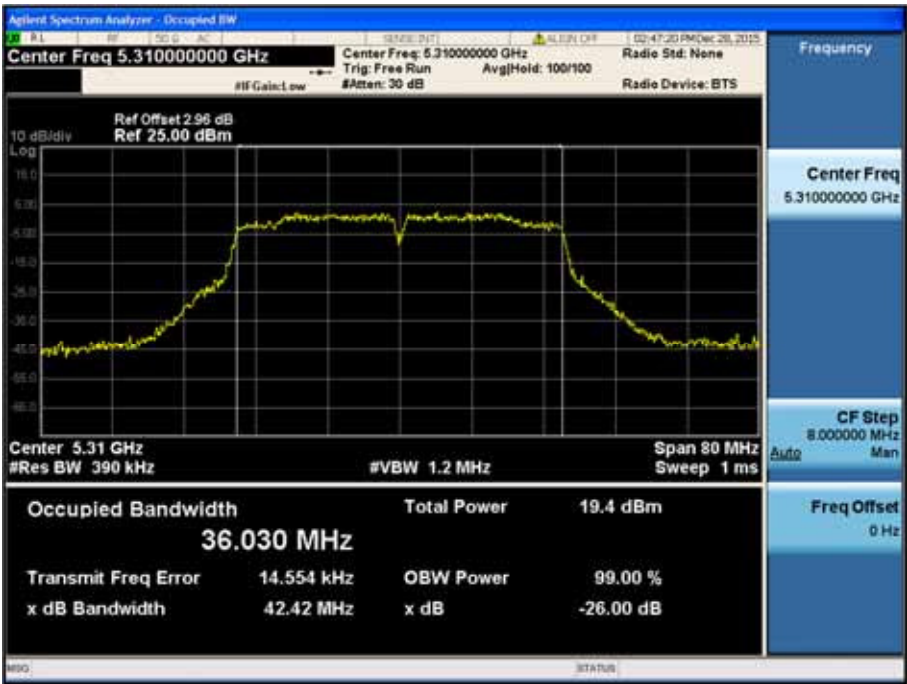
Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.54



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.62





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.102



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.110





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.134





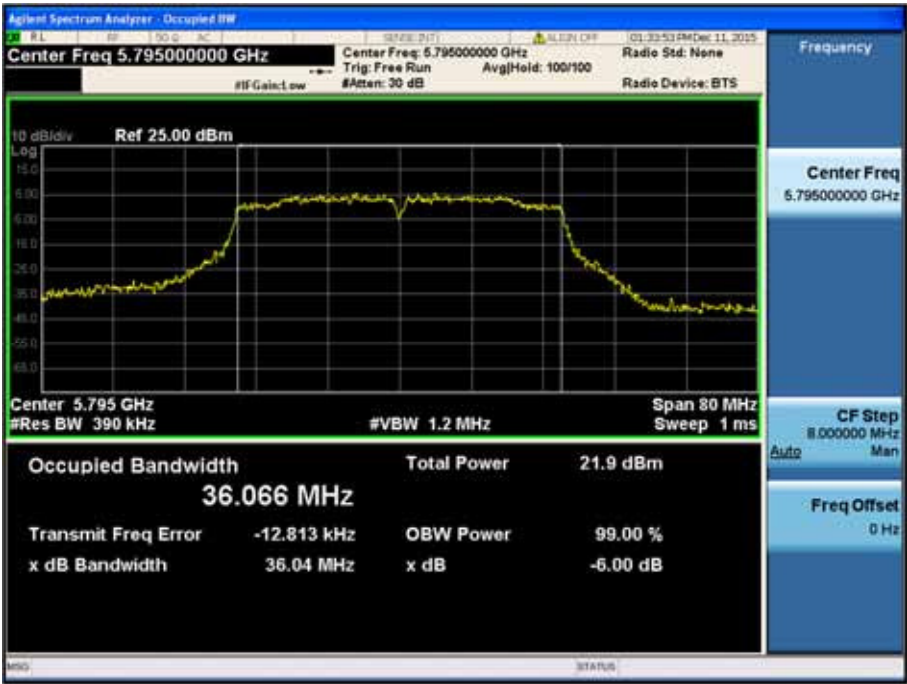
Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.151



Occupied Bandwidth 99%

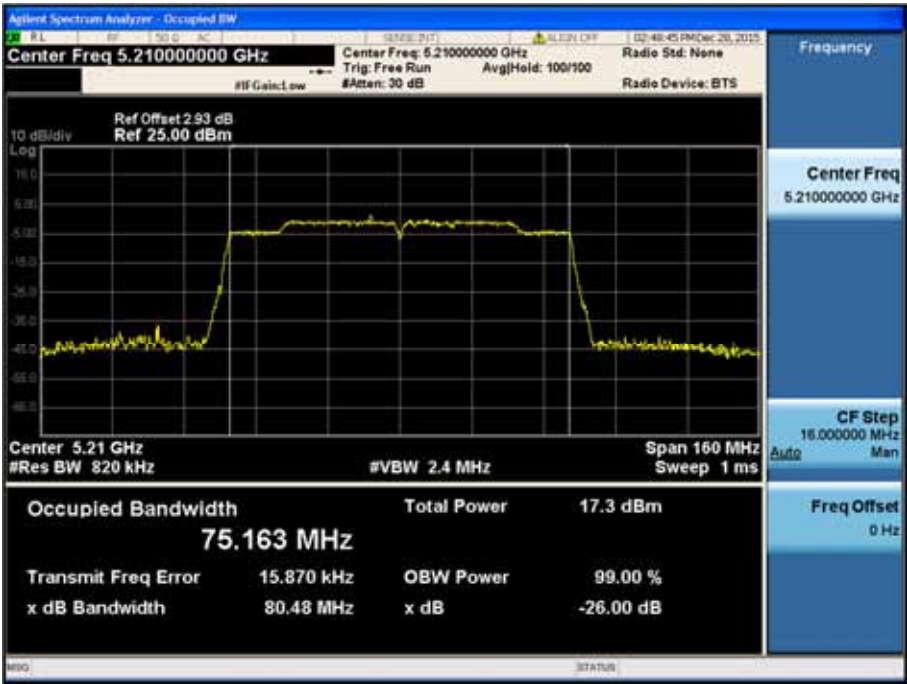
Test Mode: 802.11n HT40 & ANT 2 & Ch.159





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.42



Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.58





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.106



Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.155





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT20 & ANT 2 & Ch.144



Occupied Bandwidth 99%

Test Mode: 802.11ac VHT40 & ANT 2 & Ch.142





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.138





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 1 & Ch.48





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.52



Occupied Bandwidth 99%

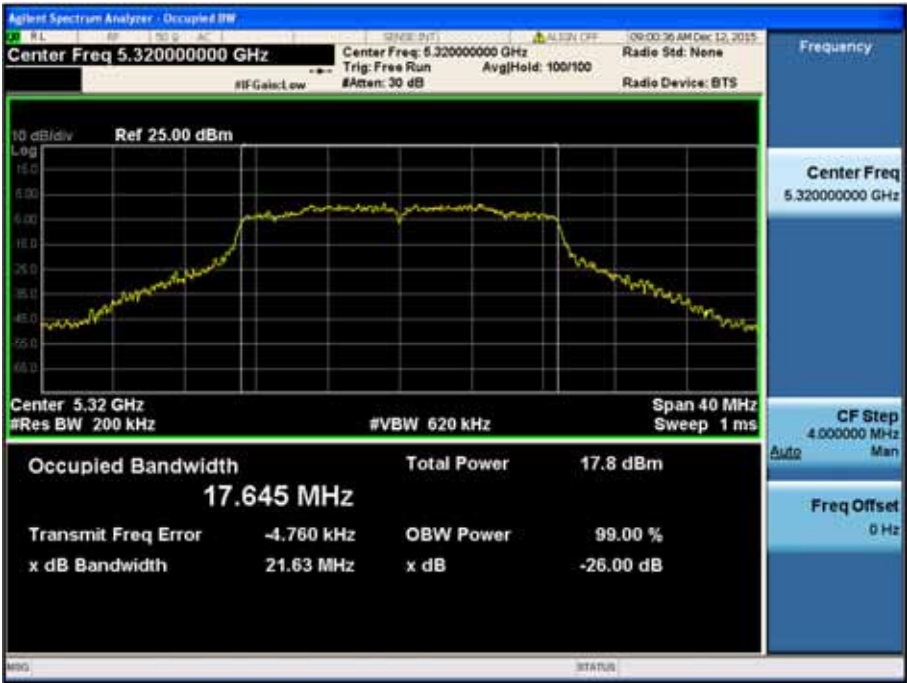
Test Mode: 802.11n HT20 & ANT 1 & Ch.60





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.64





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.100



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.116





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.140





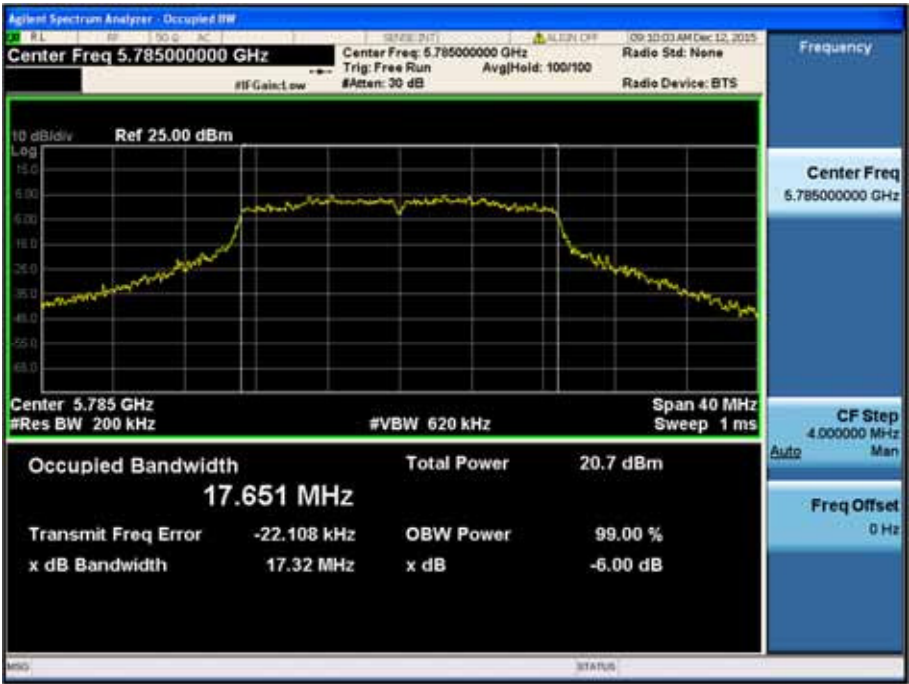
Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.149



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 1 & Ch.157





Occupied Bandwidth 99%

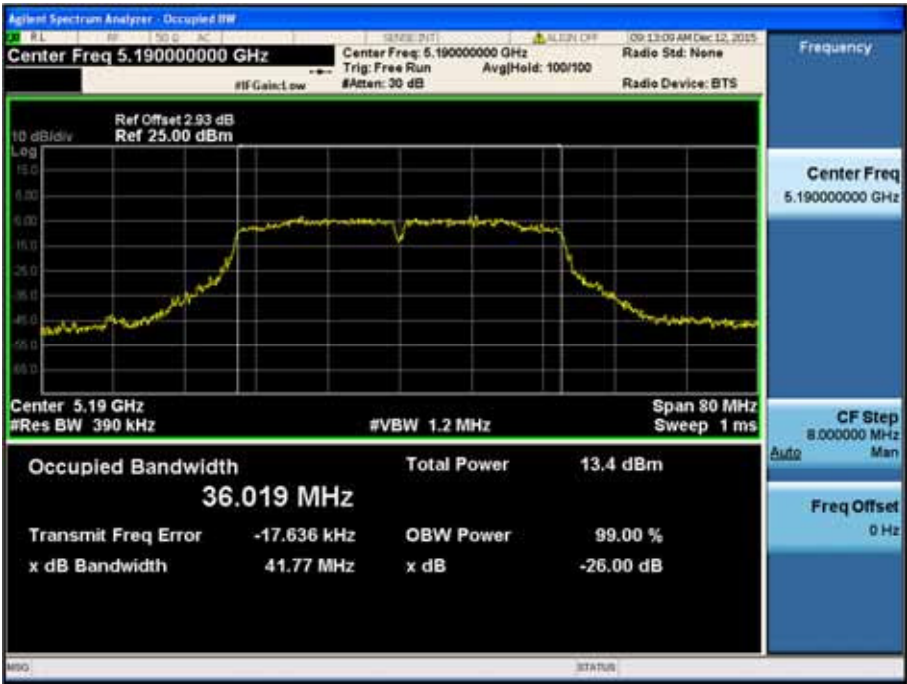
Test Mode: 802.11n HT20 & ANT 1 & Ch.165





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.38



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.46





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.54



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.62





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.102



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.110





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.134





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 1 & Ch.151



Occupied Bandwidth 99%

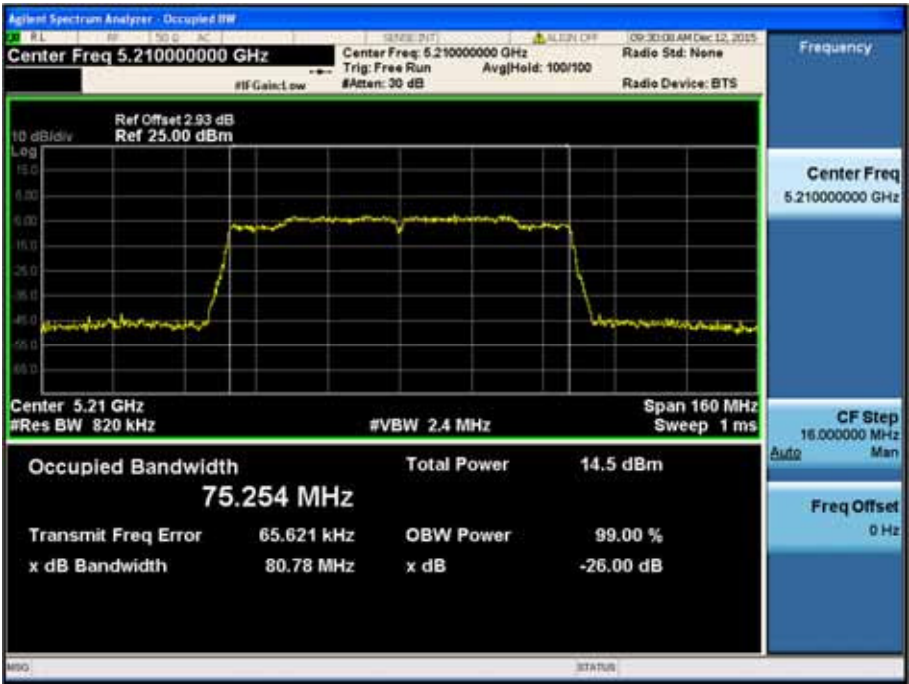
Test Mode: 802.11n HT40 & ANT 1 & Ch.159





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.42



Occupied Bandwidth 99%

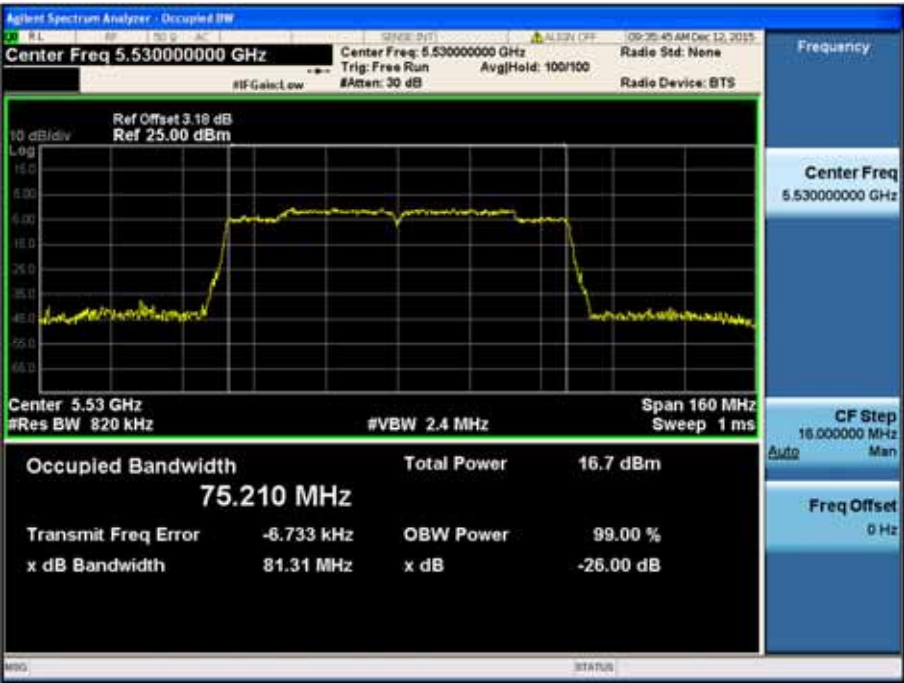
Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.58





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.106



Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 1 & Ch.155





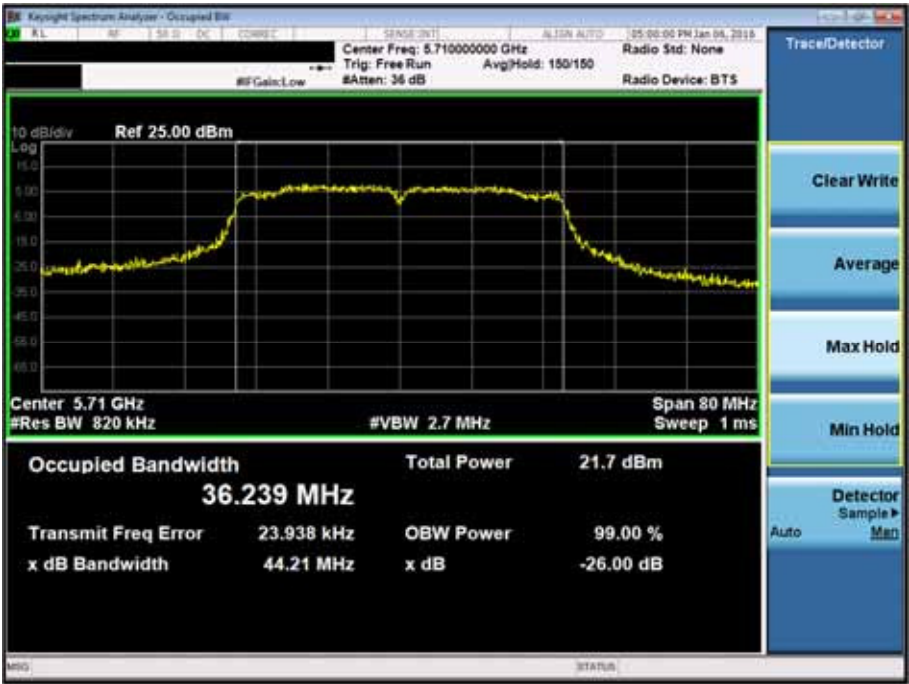
Occupied Bandwidth 99%

Test Mode: 802.11ac VHT20 & ANT 1 & Ch.144



Occupied Bandwidth 99%

Test Mode: 802.11ac VHT40 & ANT 1 & Ch.142





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT80 & ANT 1 & Ch.138





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 2 & Ch.36



Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 2 & Ch.40





Occupied Bandwidth 99%

Test Mode: 802.11n(HT20) & ANT 2 & Ch.48





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.52



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.60





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.64





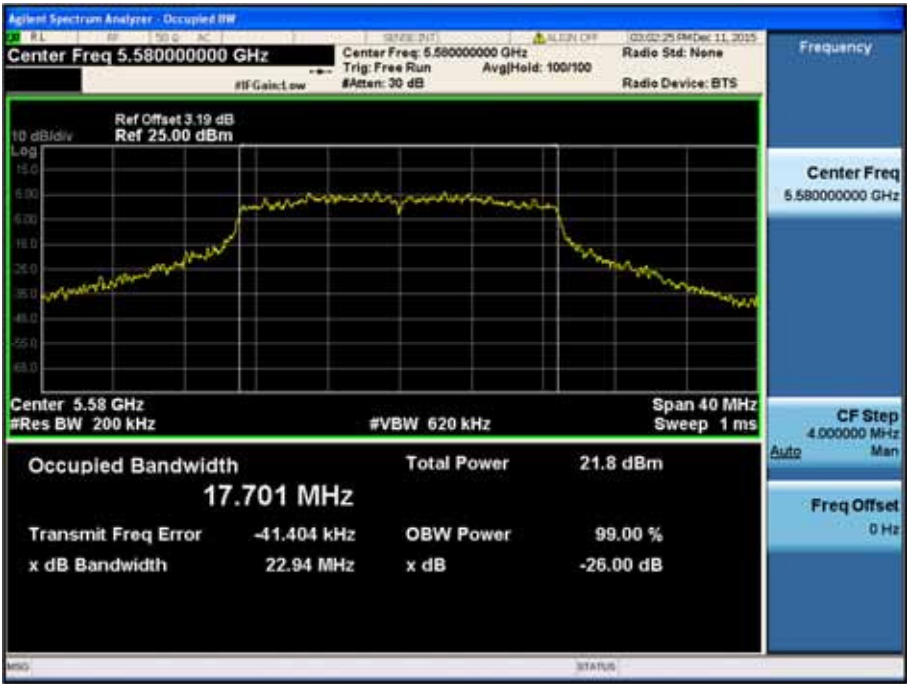
Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.100



Occupied Bandwidth 99%

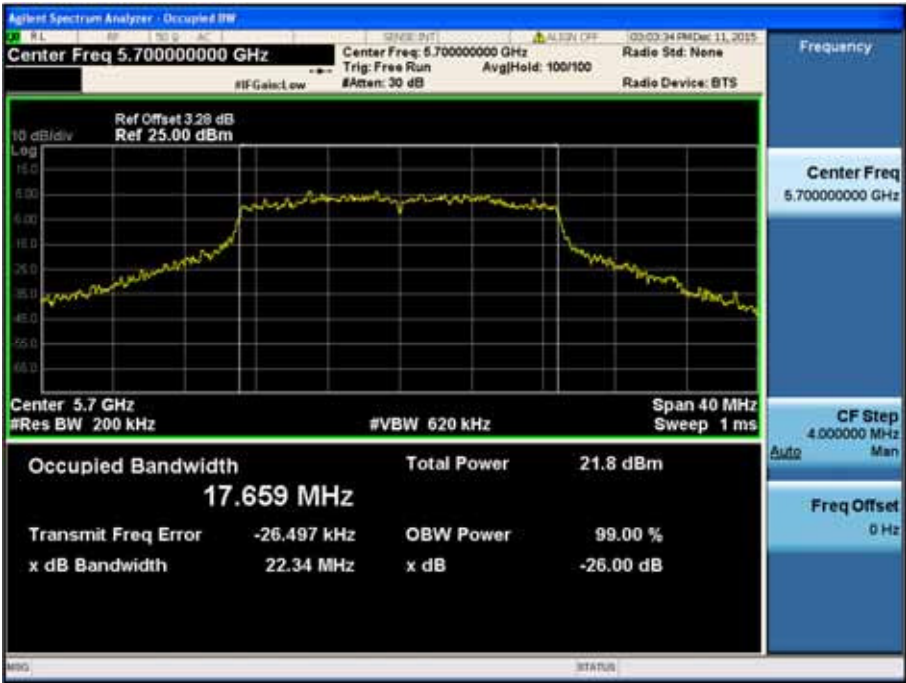
Test Mode: 802.11n HT20 & ANT 2 & Ch.116





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.140





Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.149



Occupied Bandwidth 99%

Test Mode: 802.11n HT20 & ANT 2 & Ch.157





Occupied Bandwidth 99%

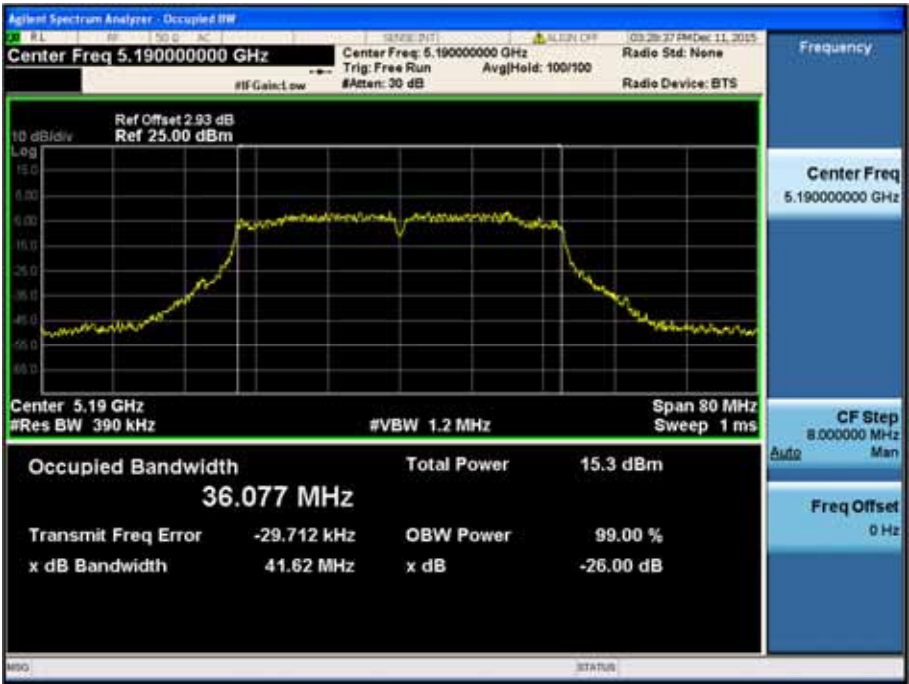
Test Mode: 802.11n HT20 & ANT 2 & Ch.165





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.38



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.46





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.54



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.62





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.102



Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.110





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.134





Occupied Bandwidth 99%

Test Mode: 802.11n HT40 & ANT 2 & Ch.151



Occupied Bandwidth 99%

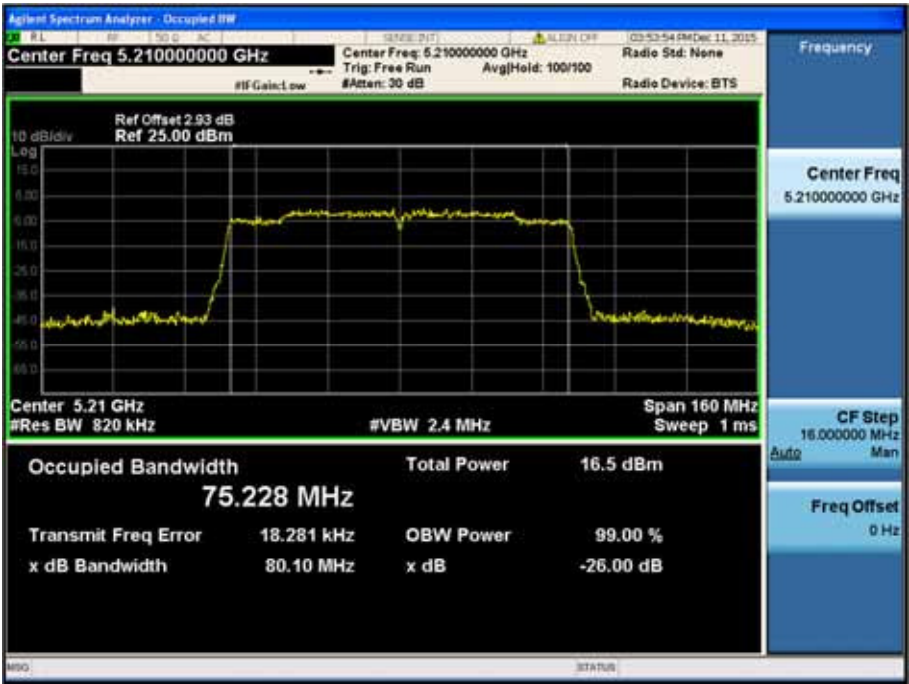
Test Mode: 802.11n HT40 & ANT 2 & Ch.159





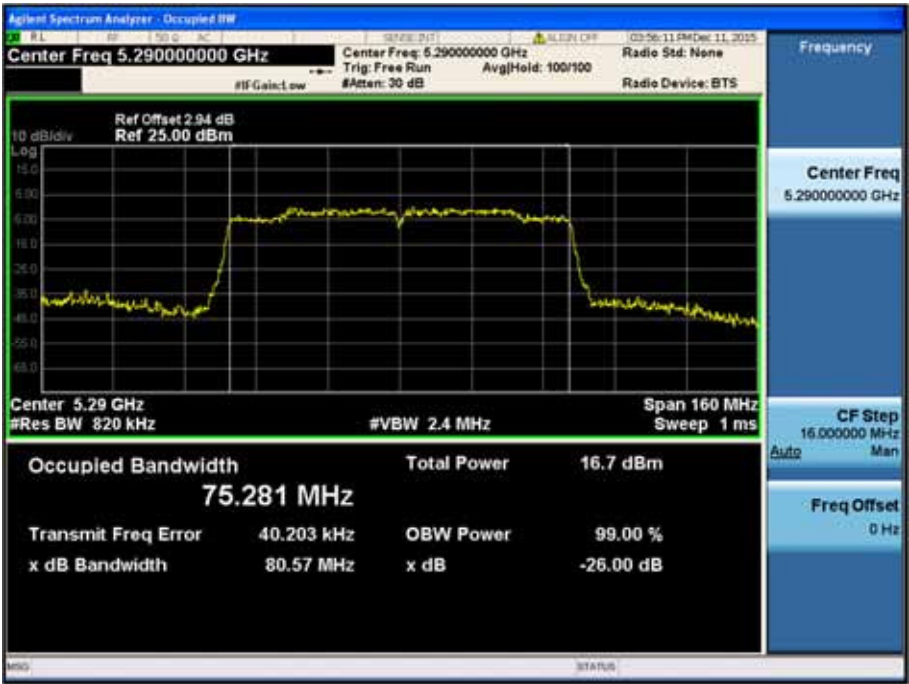
Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.42



Occupied Bandwidth 99%

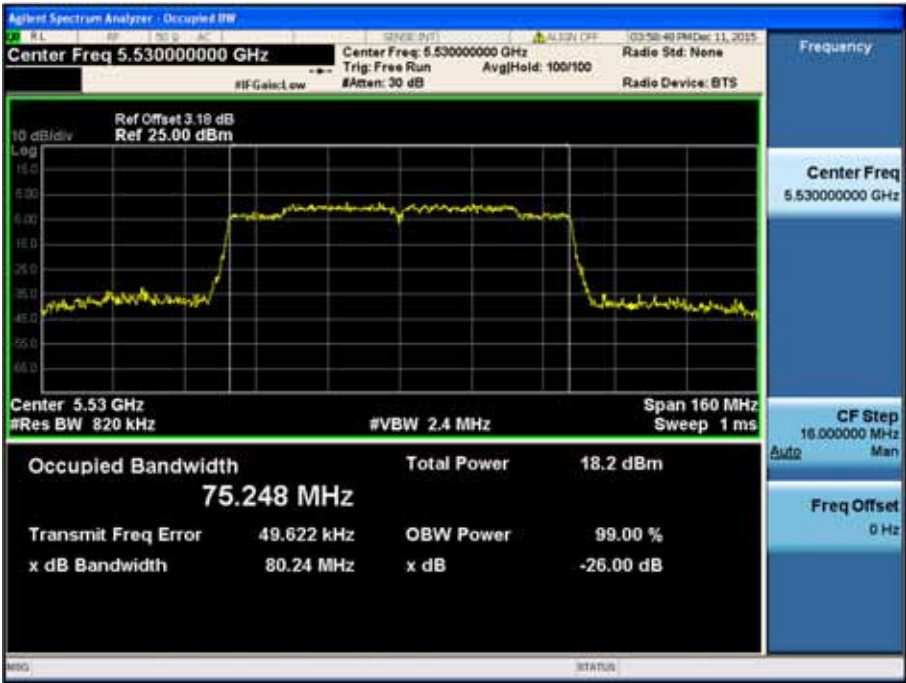
Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.58





Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.106



Occupied Bandwidth 99%

Test Mode: 802.11ac(VHT80) & ANT 2 & Ch.155





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT20 & ANT 2 & Ch.144



Occupied Bandwidth 99%

Test Mode: 802.11ac VHT40 & ANT 2 & Ch.142





Occupied Bandwidth 99%

Test Mode: 802.11ac VHT80 & ANT 2 & Ch.138



9. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9030A	15/10/19	16/10/19	MY53310140
Spectrum Analyzer	Agilent Technologies	N9020A	15/08/18	16/08/18	MY50200867
Dynamic Measurement DC Source	Agilent Technologies	66332A	15/01/22	16/01/22	US37471368
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A / MA2411B	15/06/25	16/06/25	1338004 / 1306053
Temp & Humi Test Chamber	SJ Science	SJ-TH-S50	15/10/19	16/10/19	SJ-TH-S50-130930
Thermohygrometer	BODYCOM	BJ5478	15/02/26	16/02/26	1209
Signal Generator	Rohde Schwarz	SMF100A	15/06/29	16/06/29	102341
Vector Signal Generator	Rohde Schwarz	SMBV100A	15/01/06	16/01/06	255571
			16/01/05	17/01/05	
Digital Multimeter	Agilent Technologies	34401A	15/01/06	16/01/06	MY41037027
			16/01/05	17/01/05	
Loop Antenna	Schwarzbeck	FMZB1513	14/04/29	16/04/29	1513-128
TRILOG Broadband Test-Antenna	Schwarzbeck	VULB 9160	14/04/30	16/04/30	3358
Double-Ridged Guide Antenna	ETS-Lindgren	3117	14/05/12	16/05/12	140394
Horn Antenna	A.H.Systems Inc.	SAS-574	15/04/30	17/04/30	154
Highpass Filter	Wainwright Instruments	WHKX12-2580-3000-18000-80SS	15/09/23	16/09/23	3
PreAmplifier	TSJ	MLA-010K01-B01-27	15/04/09	16/04/09	1844539
PreAmplifier	Agilent	8449B	15/02/26	16/02/26	3008A00370
EMI Test Receiver	Rohde Schwarz	DSR7	15/10/19	16/10/19	101109
EMI Test Receiver	Rohde Schwarz	ESCI	15/02/25	16/02/25	100364
Single-Phase Master	NF	4420	15/09/09	16/09/09	3.04935E+12
Artificial Mains Network	Narda S.T.S. / PMM	PMM L2-16B	15/06/26	16/06/26	000WX20305

APPENDIX I

Conducted Test set up Diagram

- **Conducted Measurement**

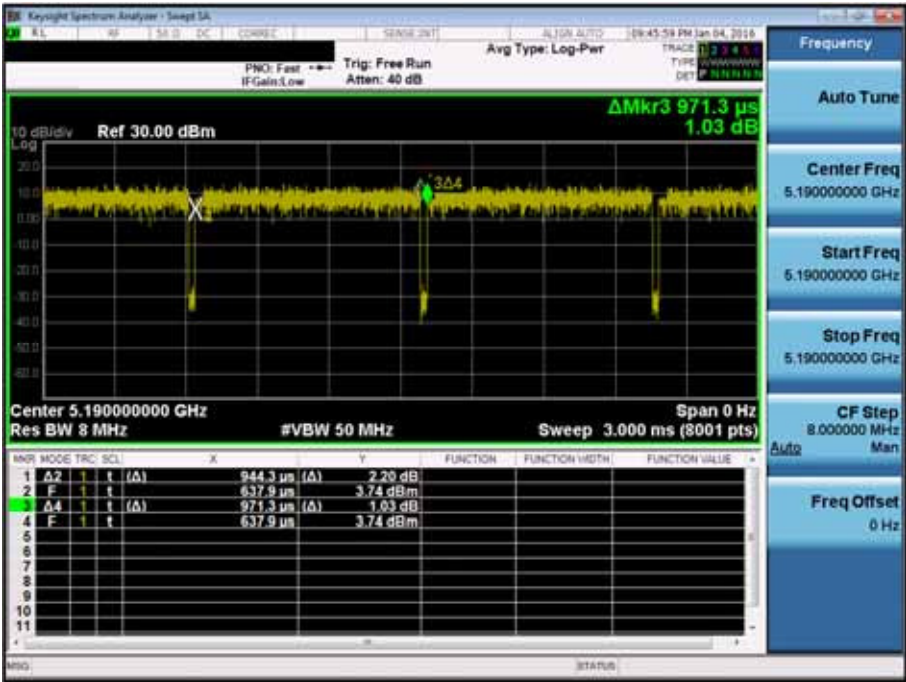
APPENDIX II

Duty Cycle Information



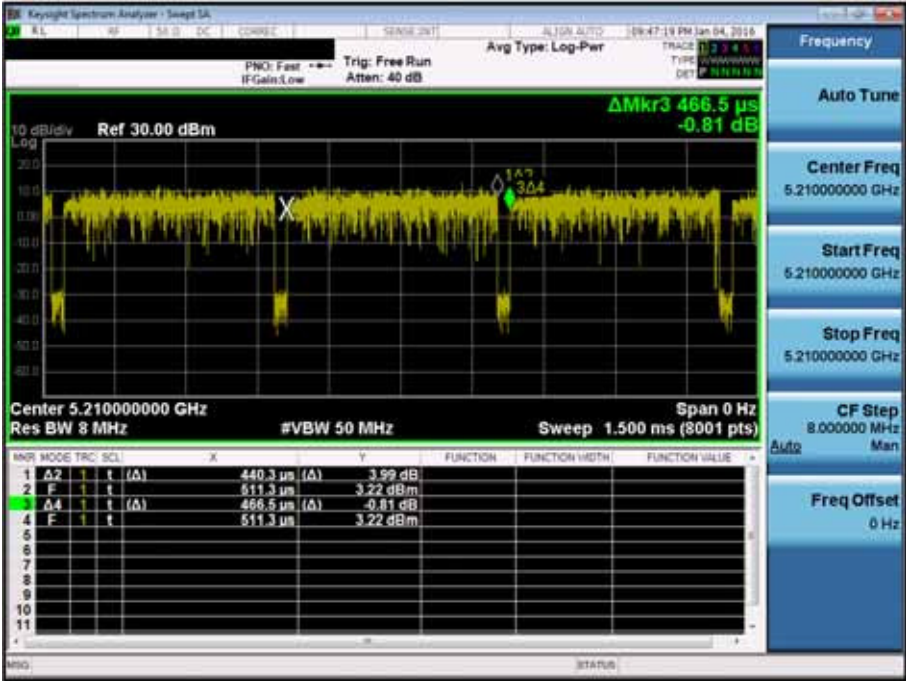
Duty Cycle

Test Mode: 802.11n HT40 & Ch.38



Duty Cycle

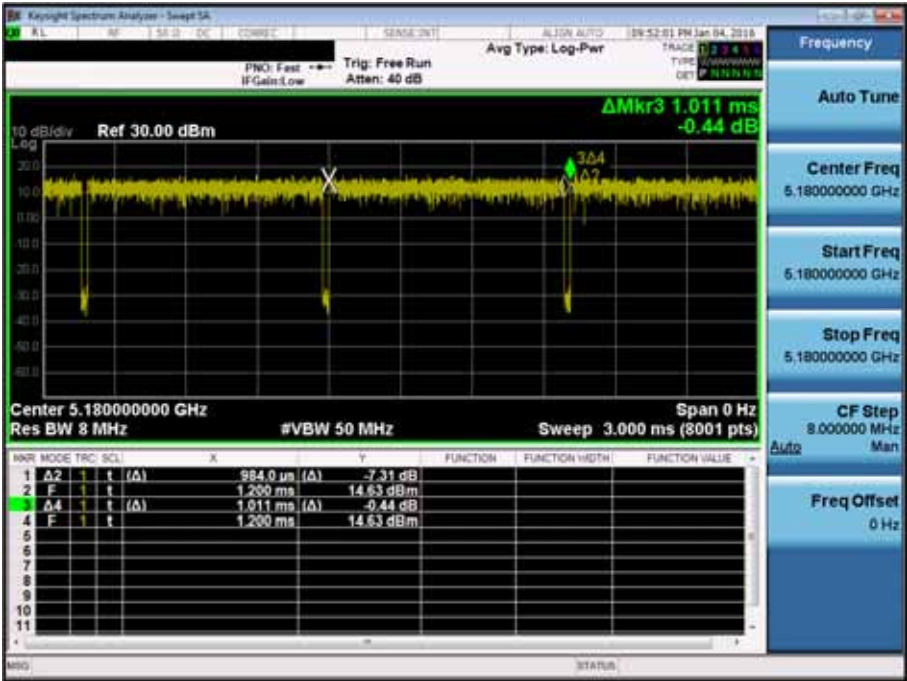
Test Mode: 802.11ac VHT80 & Ch.42





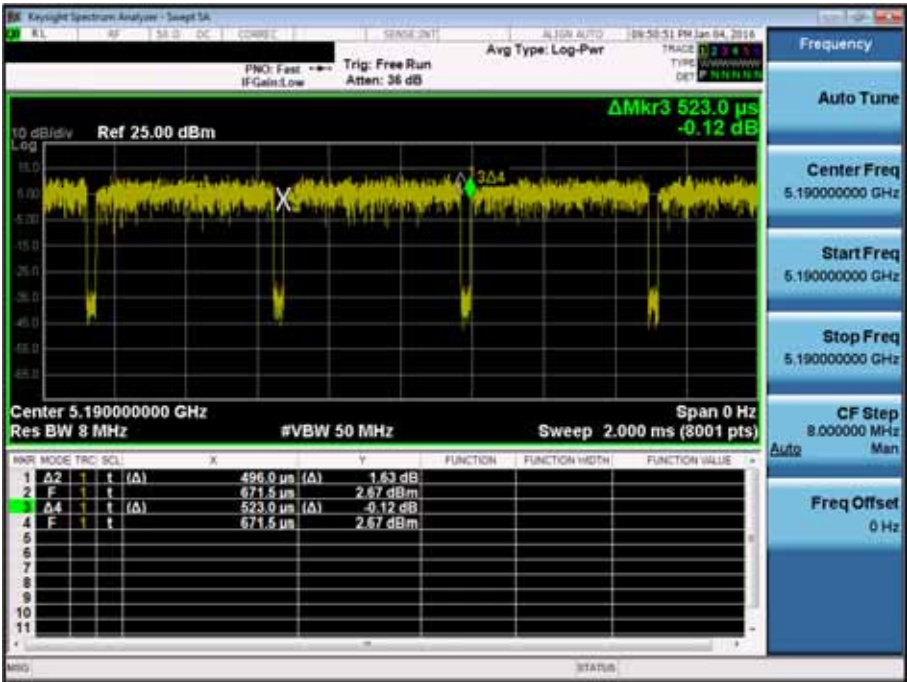
Multiple Transmit
Duty Cycle

Test Mode: 802.11n(HT20) & Ch.36



Duty Cycle

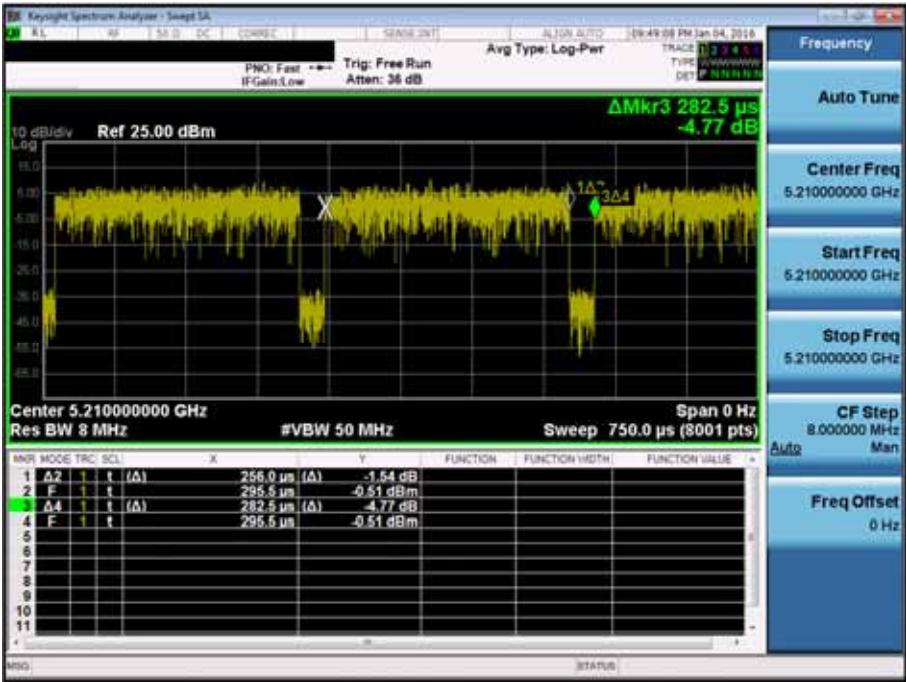
Test Mode: 802.11n HT40 & Ch.38





Duty Cycle

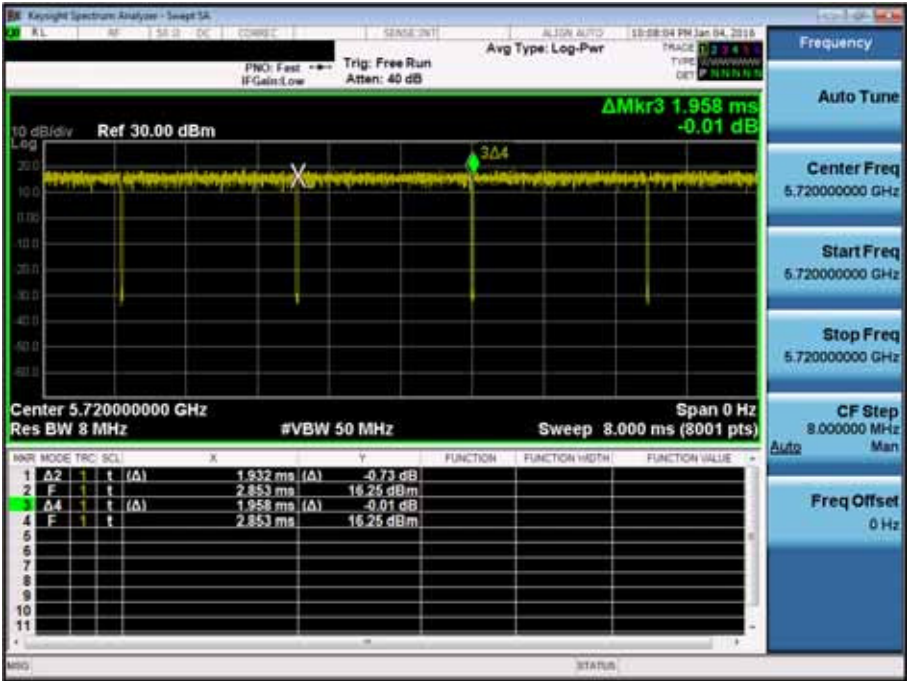
Test Mode: 802.11ac VHT80 & Ch.42





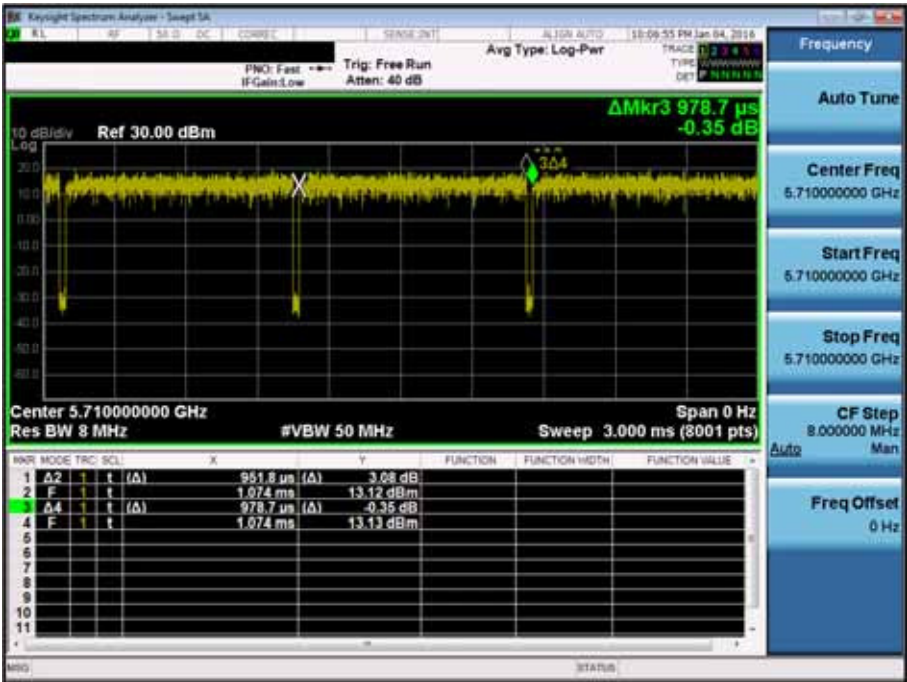
Cross band SISO
Duty Cycle

Test Mode: 802.11ac VHT20 & Ch.144



Duty Cycle

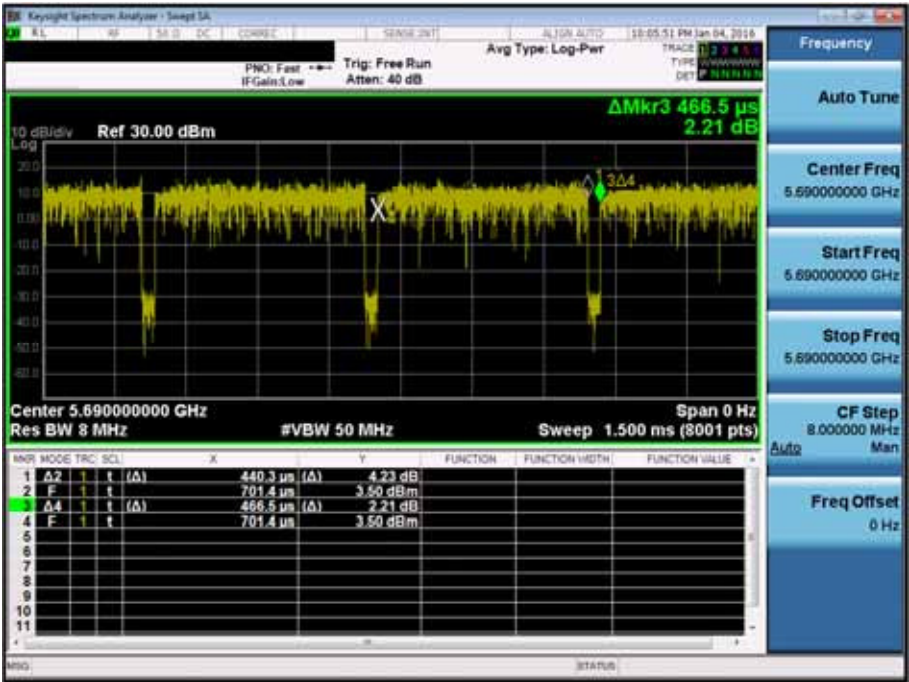
Test Mode: 802.11ac VHT40 & Ch.142





Duty Cycle

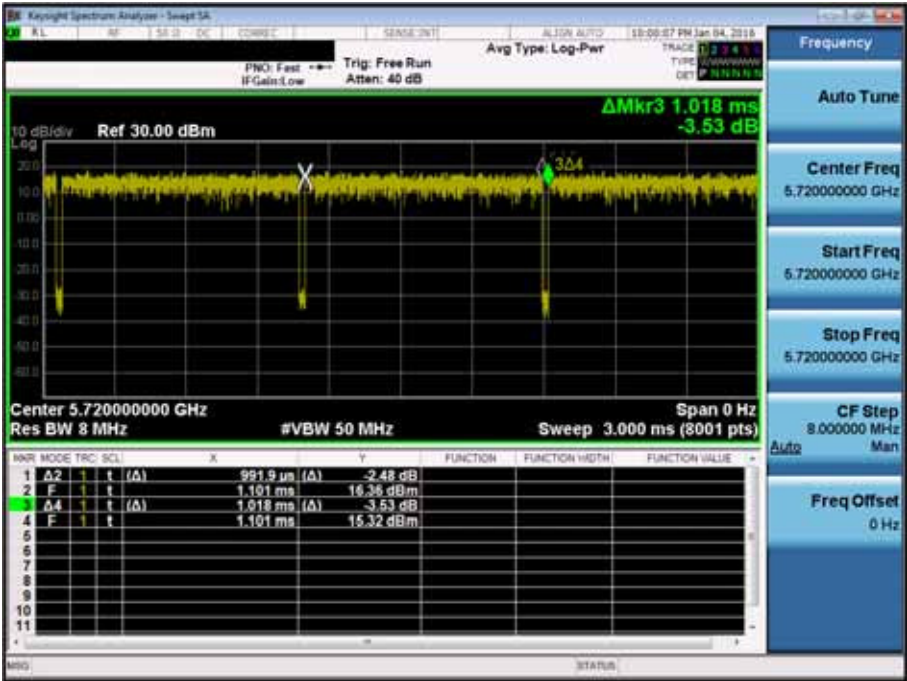
Test Mode: 802.11ac VHT80 & Ch.138





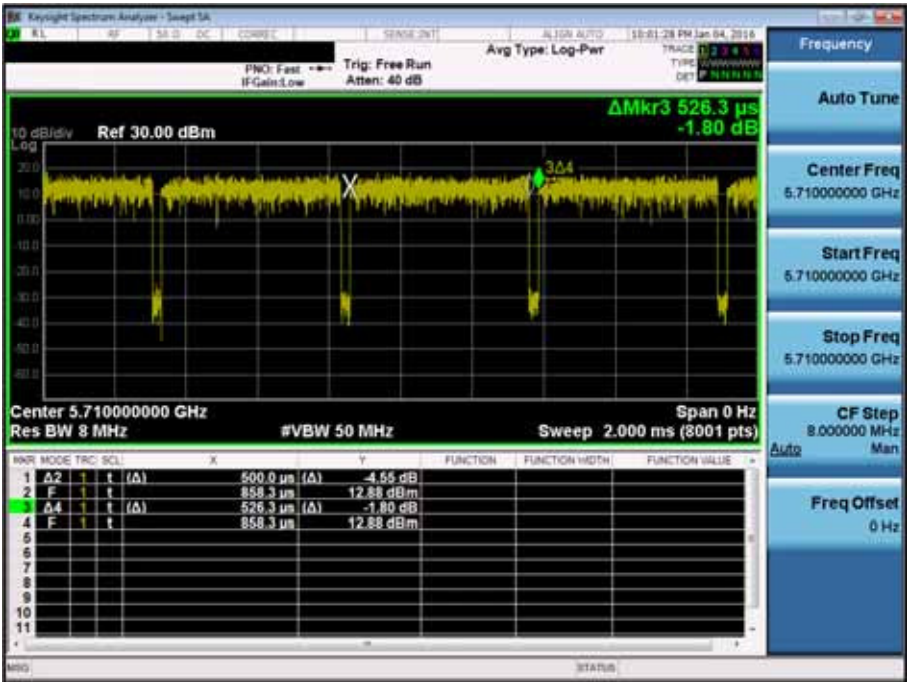
Cross band MIMO
Duty Cycle

Test Mode: 802.11ac VHT20 & Ch.144



Duty Cycle

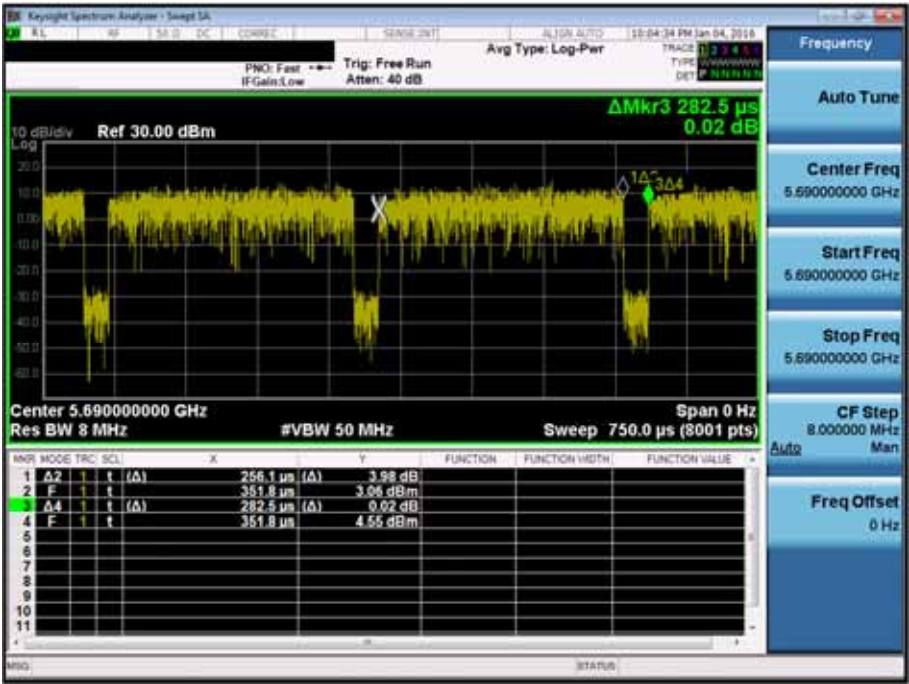
Test Mode: 802.11ac VHT40 & Ch.142





Duty Cycle

Test Mode: 802.11ac VHT80 & Ch.138





APPENDIX III

Unwanted Emissions (Radiated) Test Plot _ ANT 1

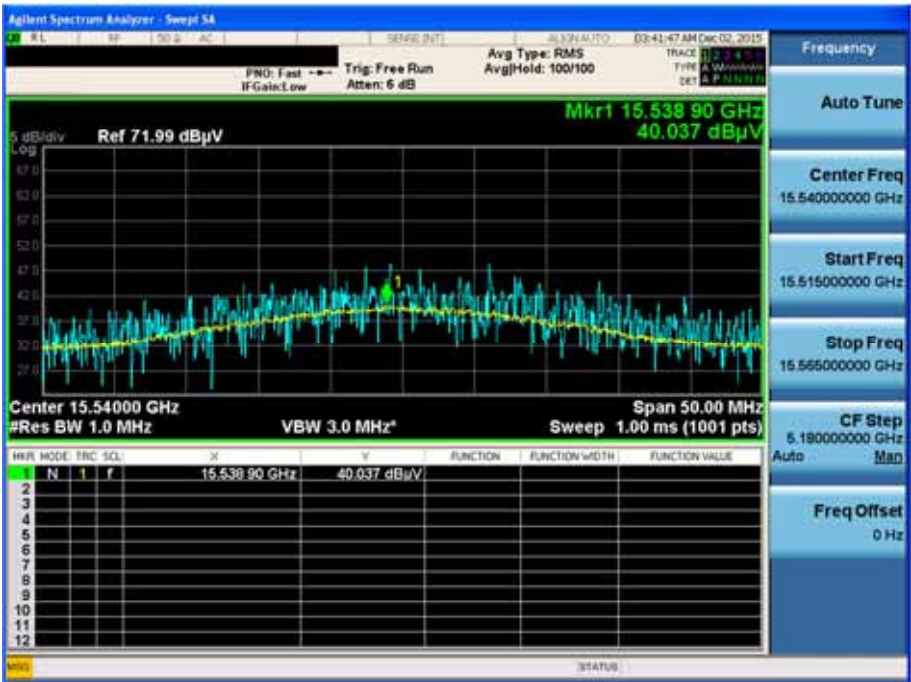
802.11a & U-NII 1 & Ch.36 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 1 & Ch.36 & Y axis & Hor

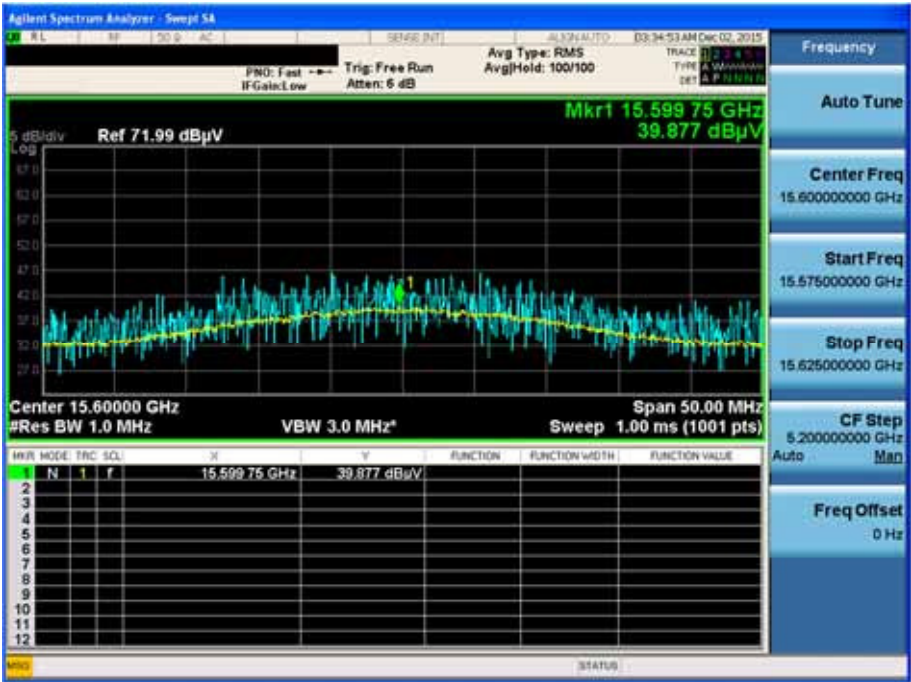
Detector Mode : AV





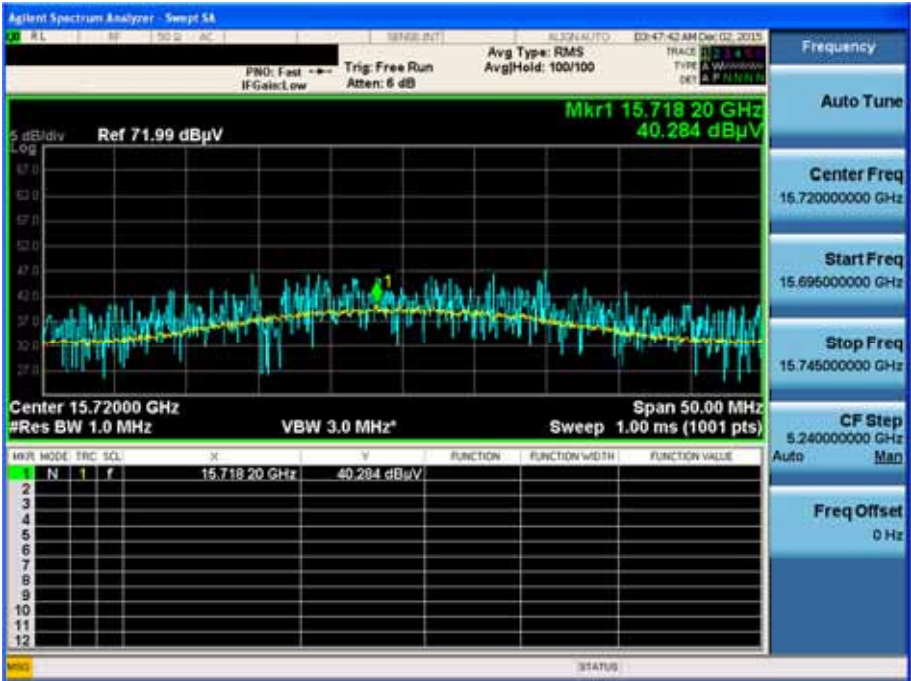
802.11a & U-NII 1 & Ch.40 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 1 & Ch.48 & Y axis & Hor

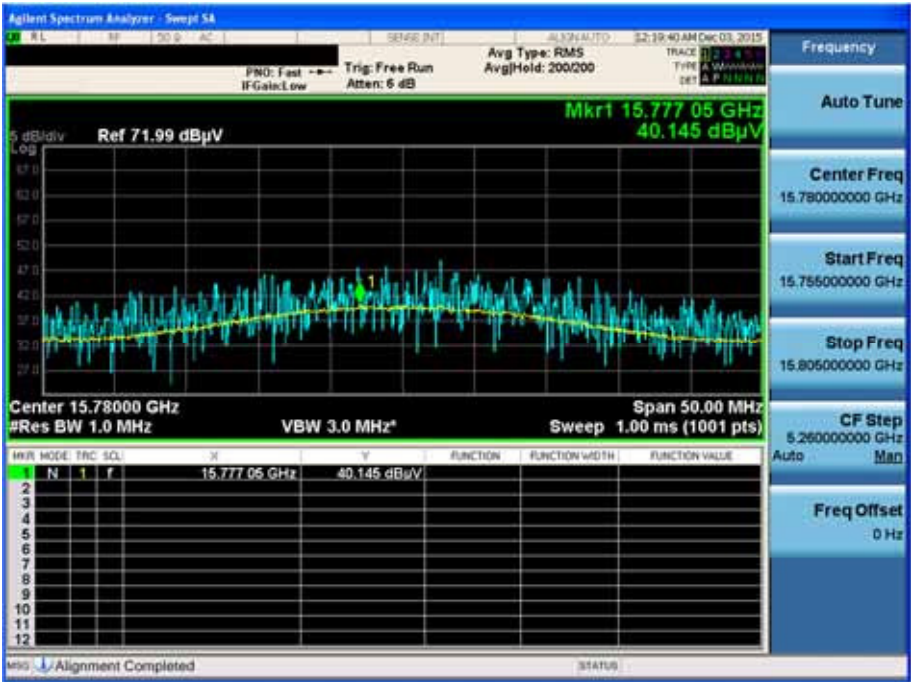
Detector Mode : AV





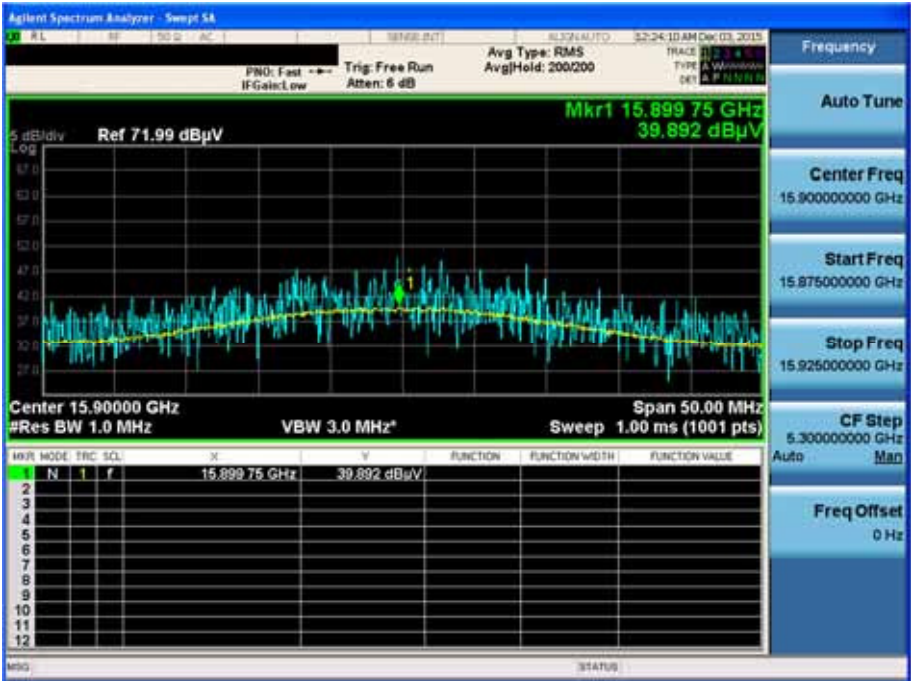
802.11a & U-NII 2A & Ch.52 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 2A & Ch.60 & Y axis & Hor

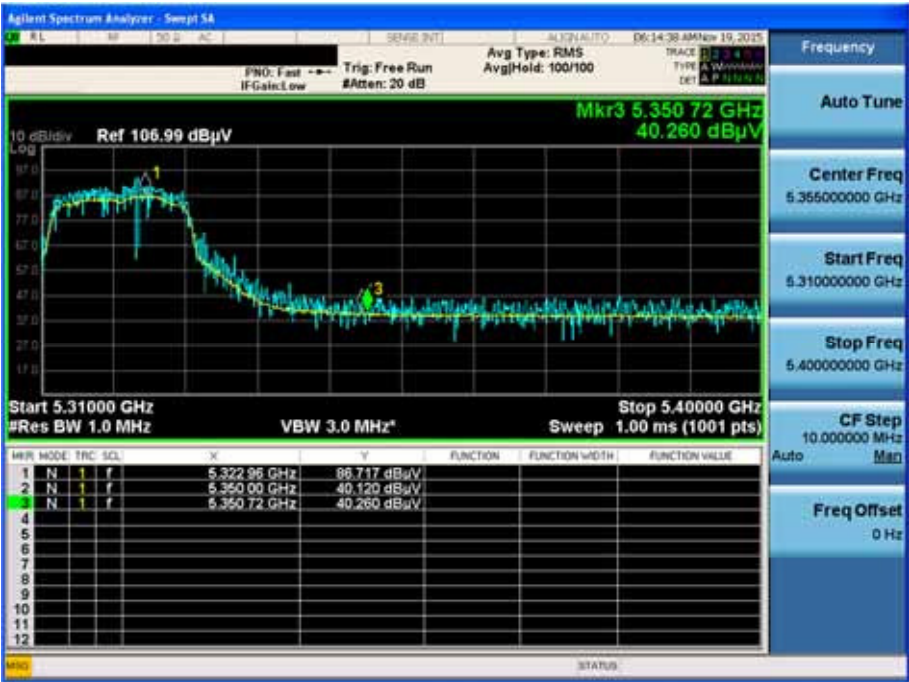
Detector Mode : AV





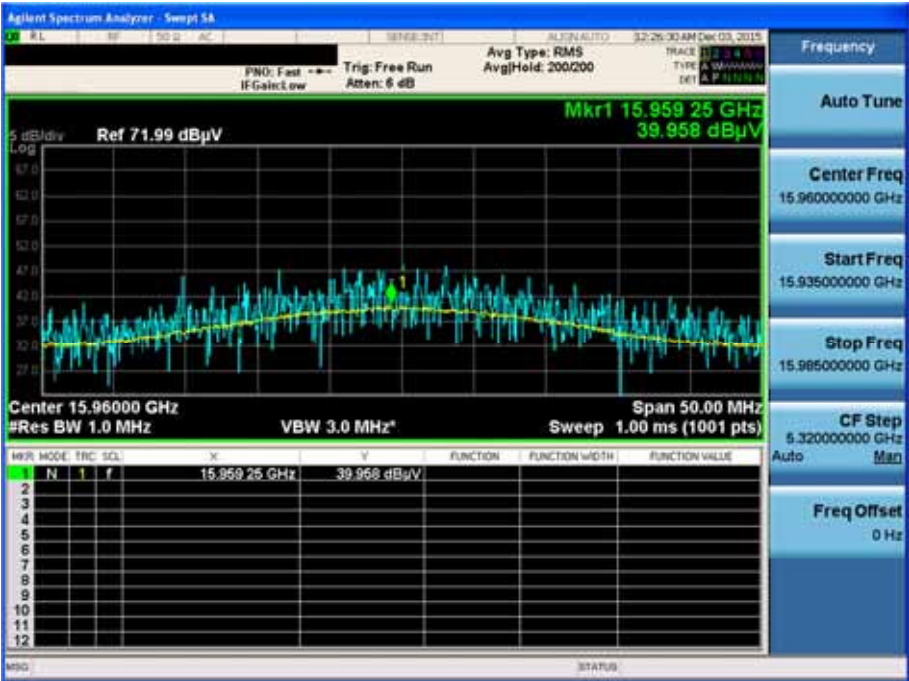
802.11a & U-NII 2A & Ch.64 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 2A & Ch.64 & Y axis & Hor

Detector Mode : AV





802.11a & U-NII 2C & Ch.100 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 2C & Ch.100 & Y axis & Hor

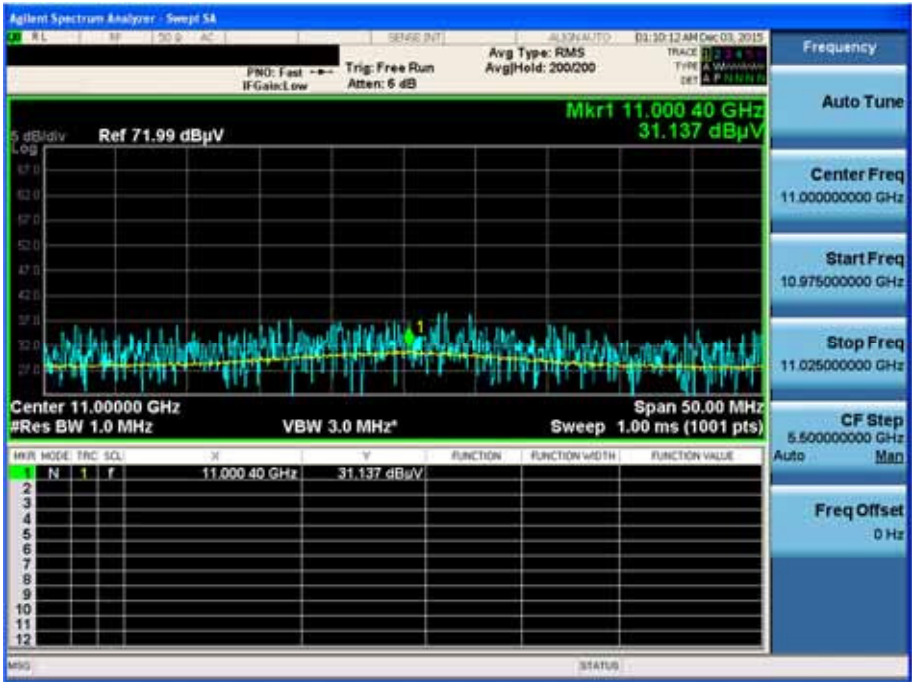
Detector Mode : PK





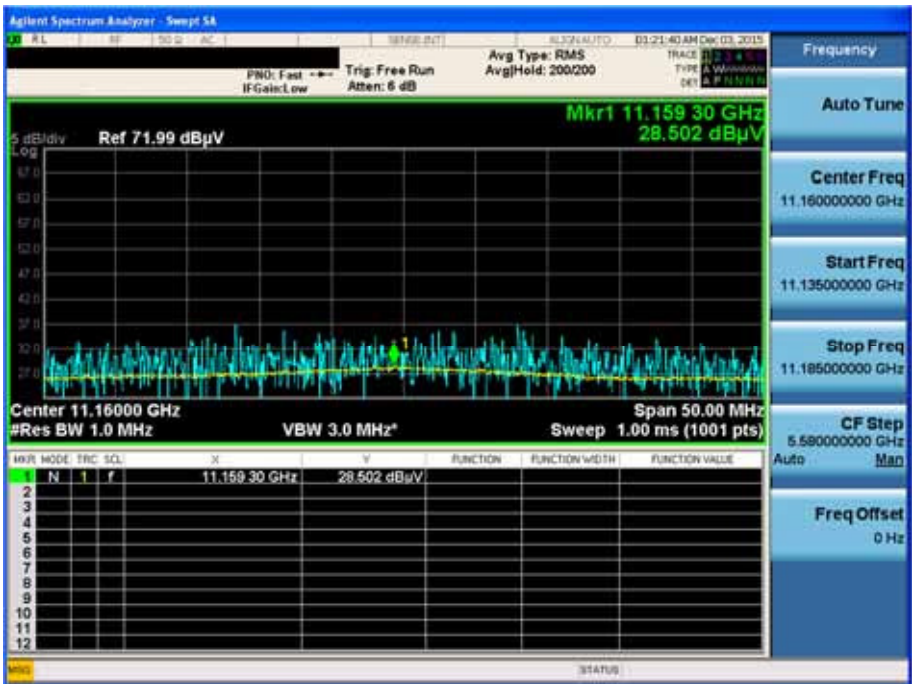
802.11a & U-NII 2C & Ch.100 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 2C & Ch.116 & Y axis & Hor

Detector Mode : AV





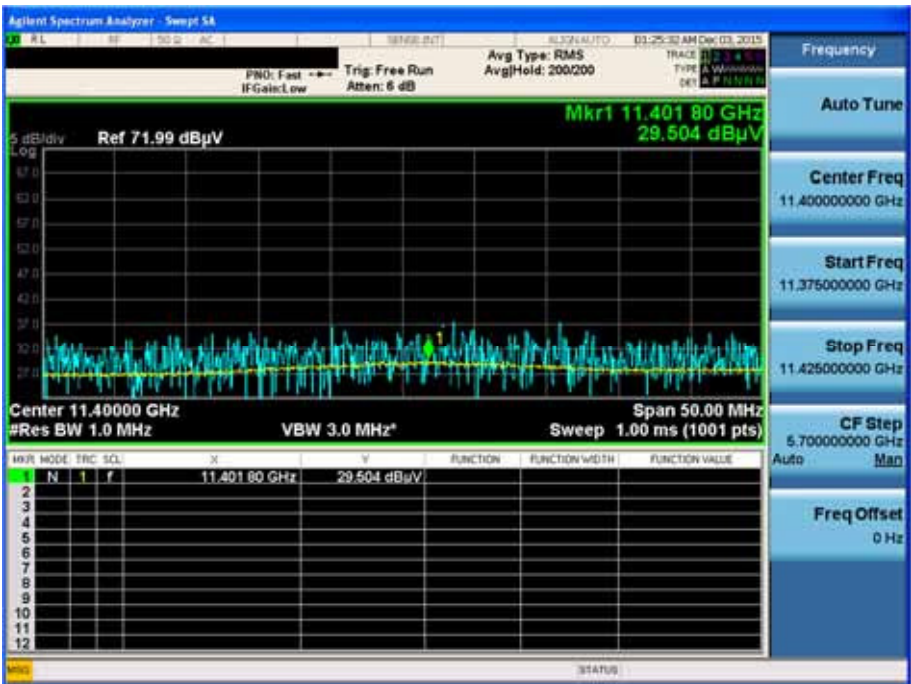
802.11a & U-NII 2C & Ch.140 & Y axis & Hor

Detector Mode : PK



802.11a & U-NII 2C & Ch.140 & Y axis & Hor

Detector Mode : AV





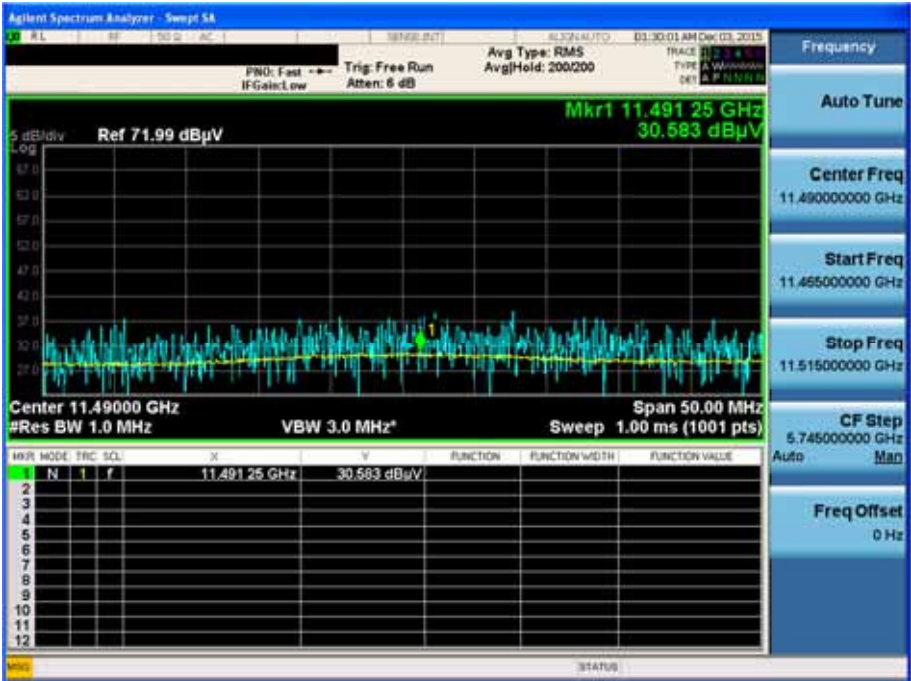
802.11a & U-NII 3 & Ch.149 & Y axis & Hor

Detector Mode : PK



802.11a & U-NII 3 & Ch.149 & Y axis & Hor

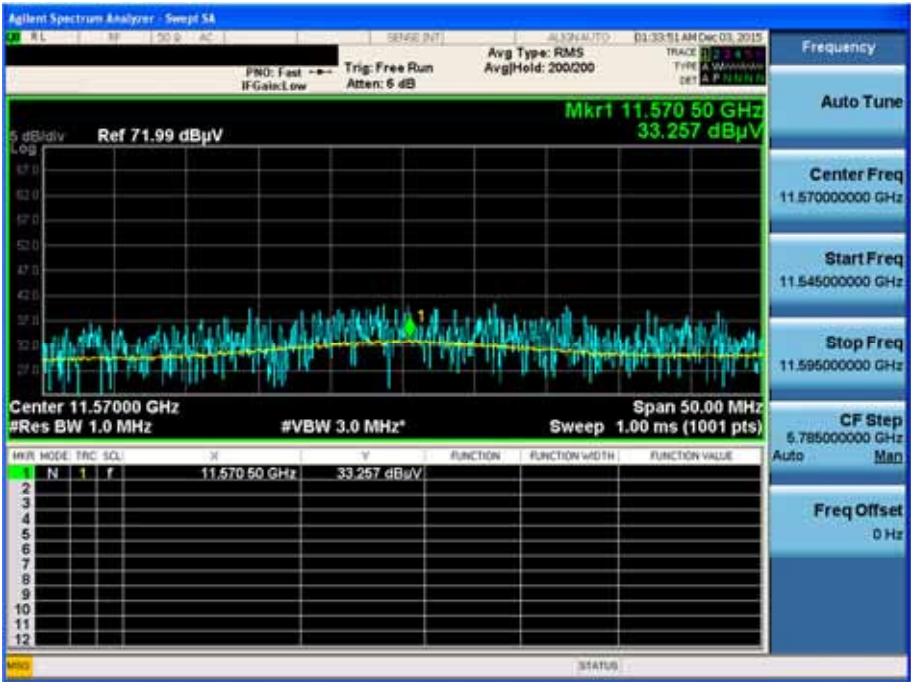
Detector Mode : AV





802.11a & U-NII 3 & Ch.157 & Y axis & Hor

Detector Mode : AV



802.11a & U-NII 3 & Ch.165 & Y axis & Hor

Detector Mode : PK





802.11a & U-NII 3 & Ch.165 & Y axis & Hor

Detector Mode : AV

