


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1605

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 11 (802.11b)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

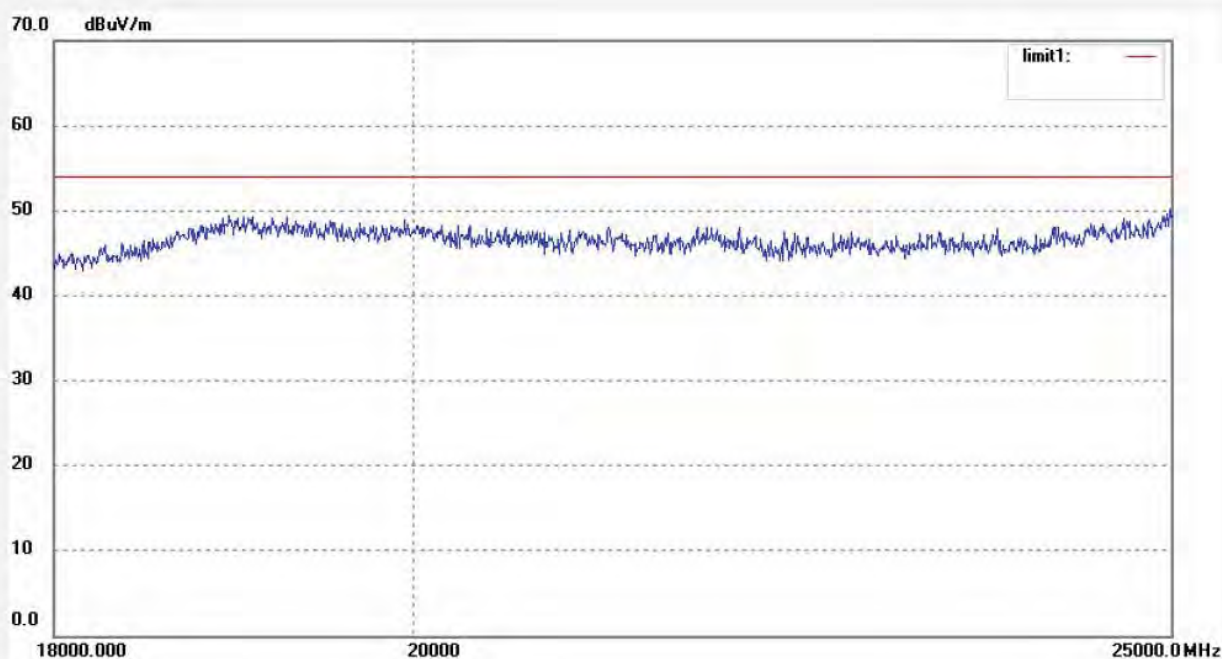
Date: 12/02/06

Time: 10:23:55

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1606

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 11 (802.11b)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

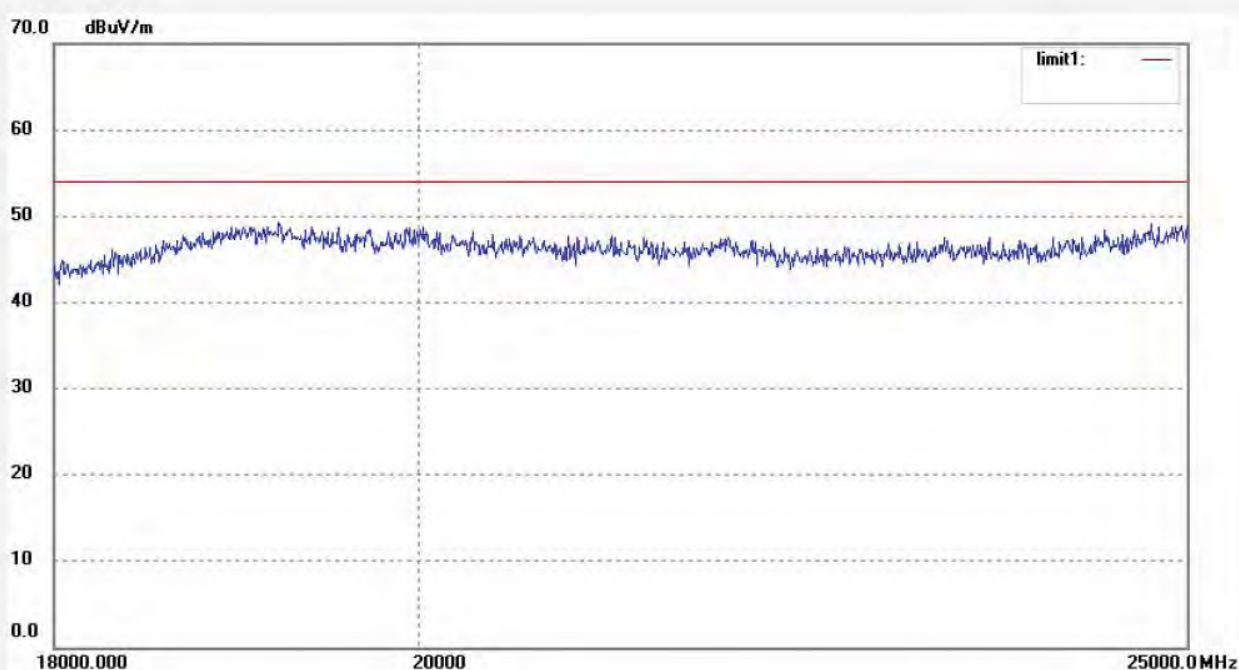
Date: 12/02/06

Time: 10:27:11

Engineer Signature: Bob

Distance: 3m

Note: Report No.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #914

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

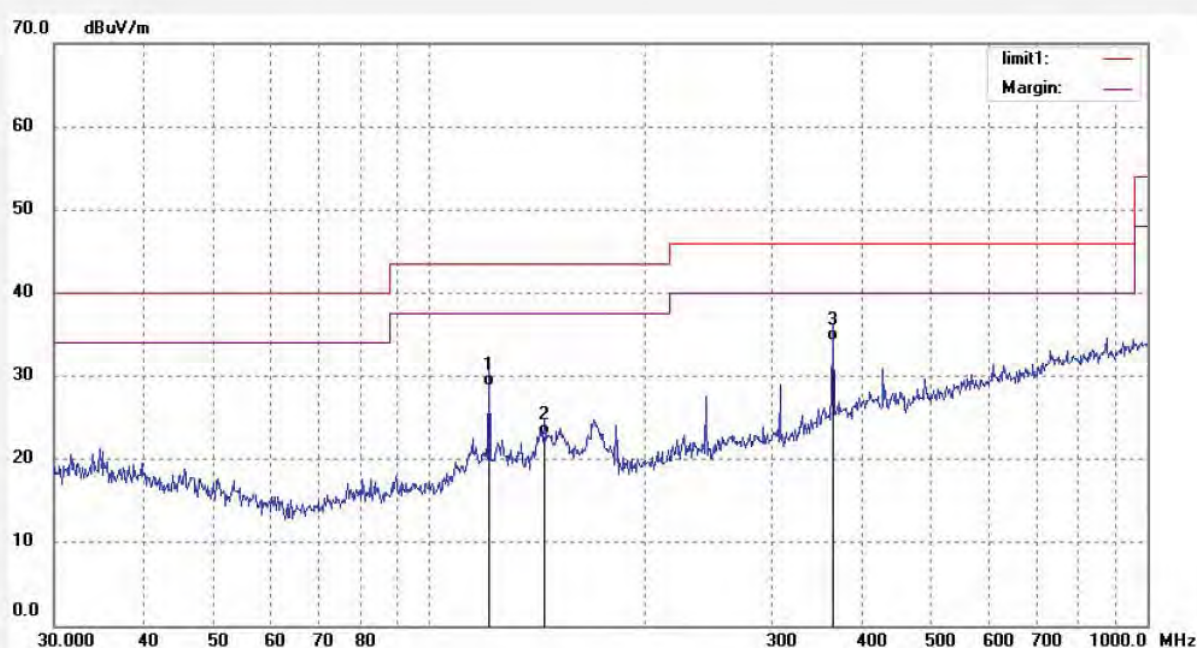
Date: 12/02/03/

Time: 9/20/33

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	14.11	14.75	28.86	43.50	-14.64	QP			
2	144.7899	8.29	14.48	22.77	43.50	-20.73	QP			
3	364.8026	12.76	21.46	34.22	46.00	-11.78	QP			



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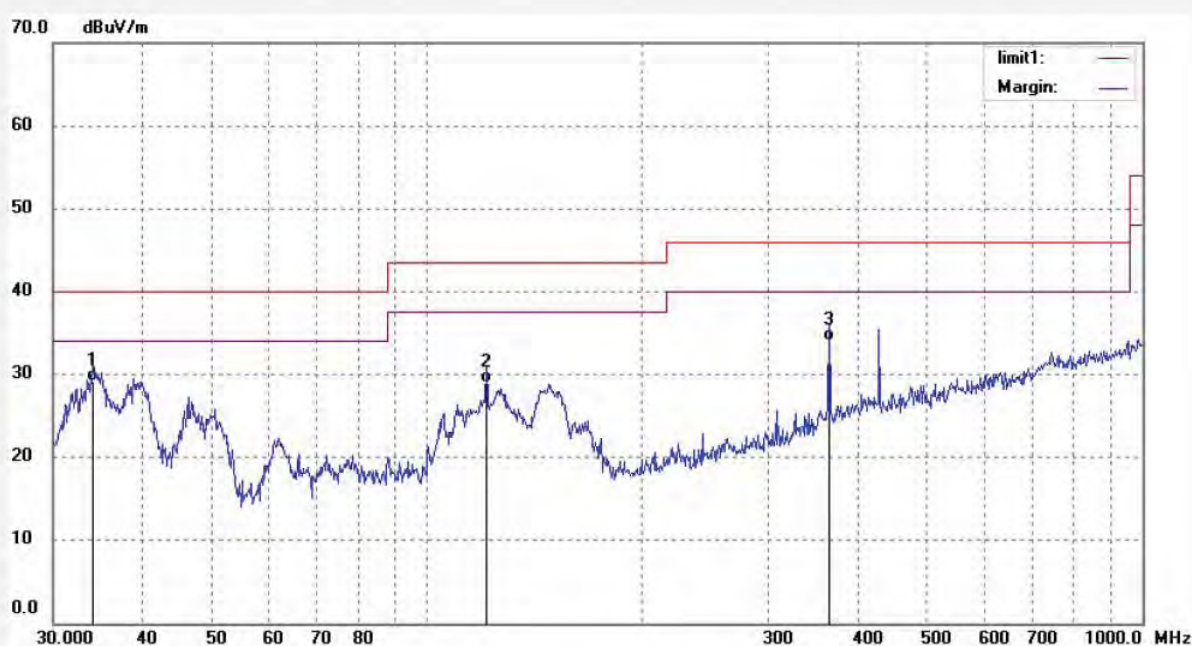
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #913
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1(802.11g)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/19/10
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.1649	12.32	16.88	29.20	40.00	-10.80	QP			
2	121.0363	14.26	14.75	29.01	43.50	-14.49	QP			
3	364.8026	12.52	21.46	33.98	46.00	-12.02	QP			


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 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

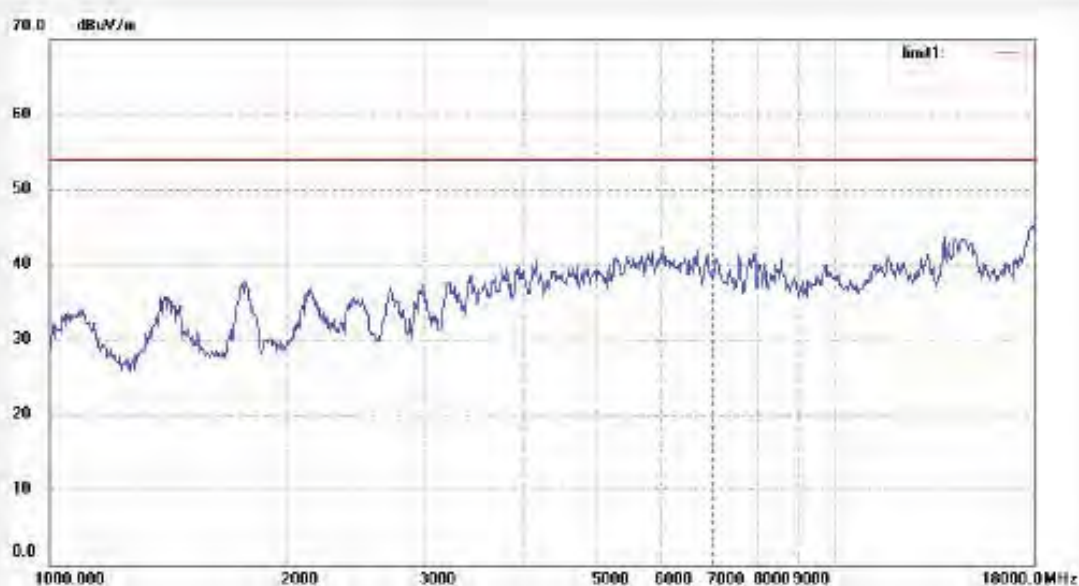
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1626
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 24 C / 48 %
 EUT: mid
 Mode: TX Channel 1 (802.11g)
 Model: GA20
 Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 12/02/06
 Time: 12:05:30
 Engineer Signature: Bob
 Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 988 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1625

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 1 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

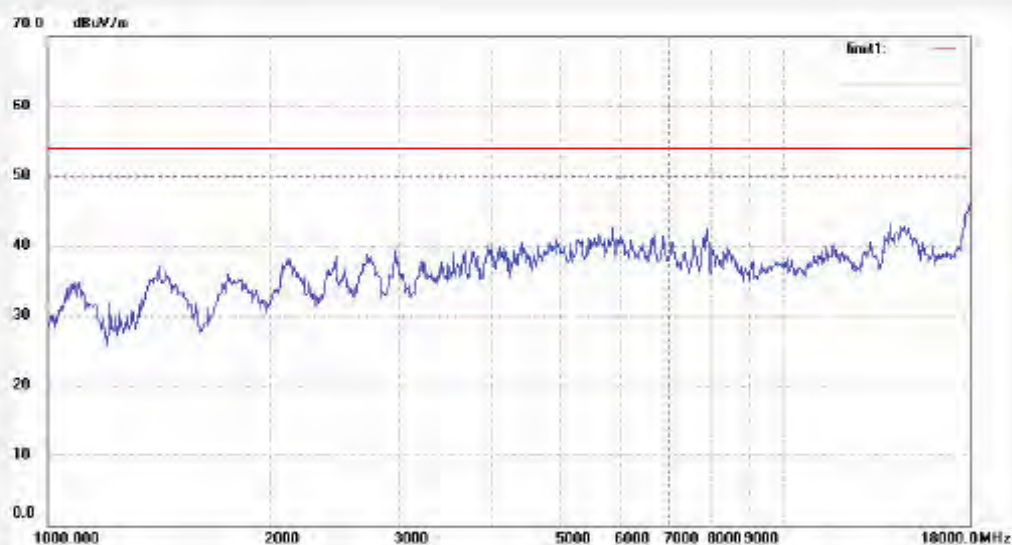
Date: 12/02/06

Time: 12:01:35

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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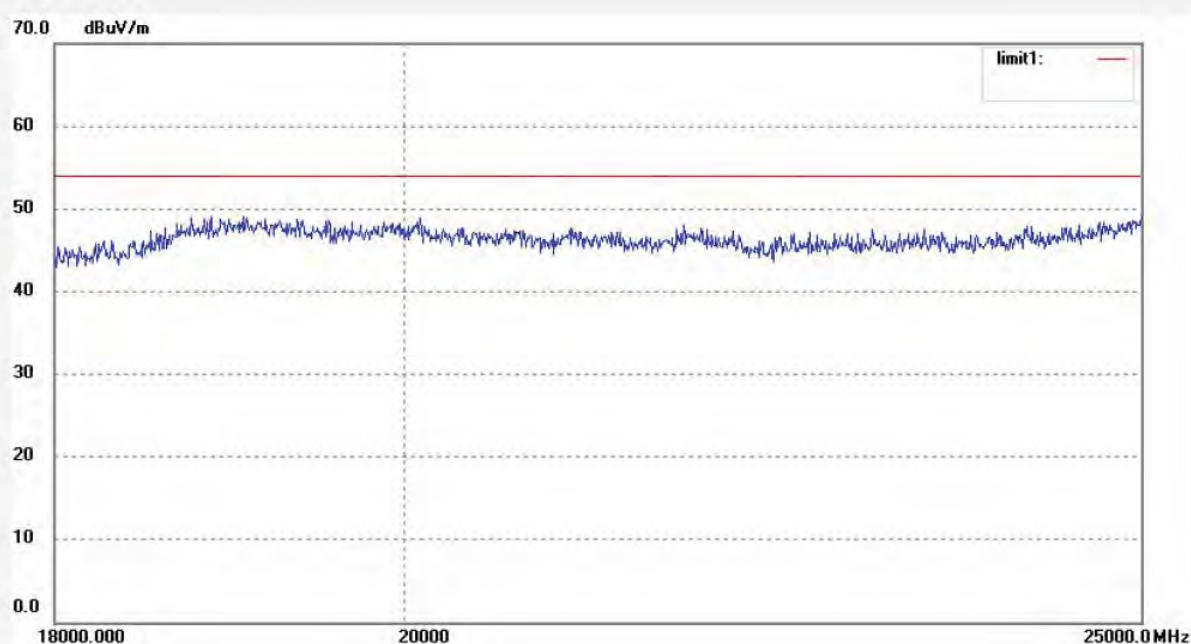

ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1608	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:35:56
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1607

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 1 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

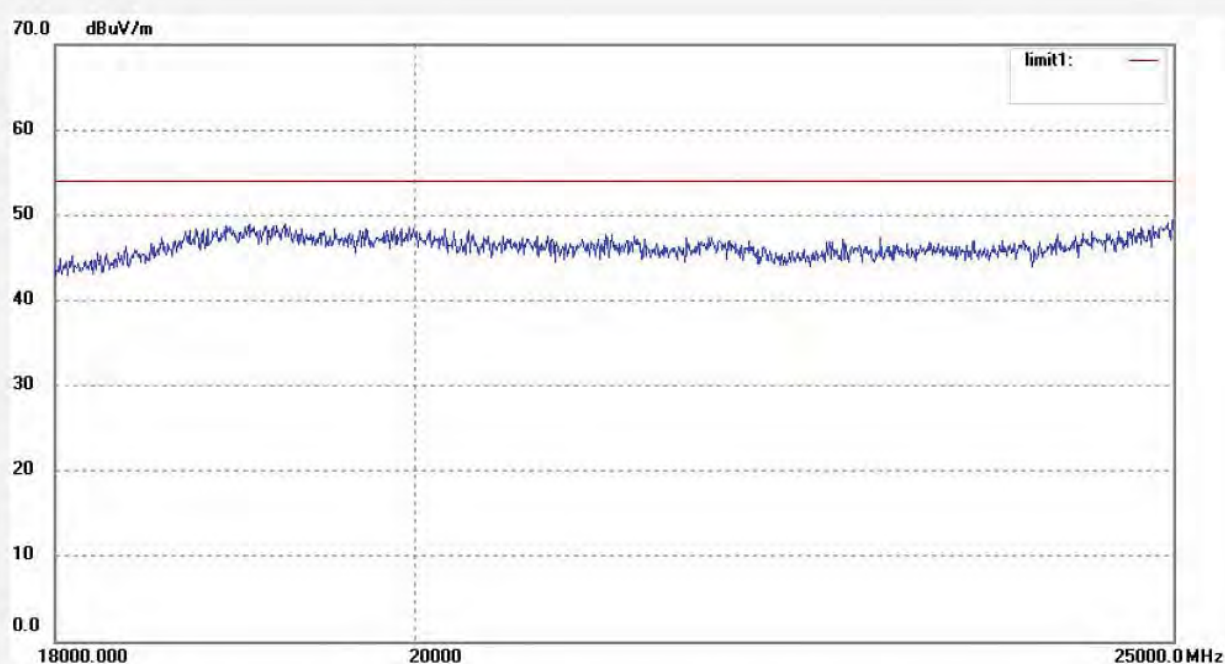
Date: 12/02/06

Time: 10:32:05

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #919

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6(802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

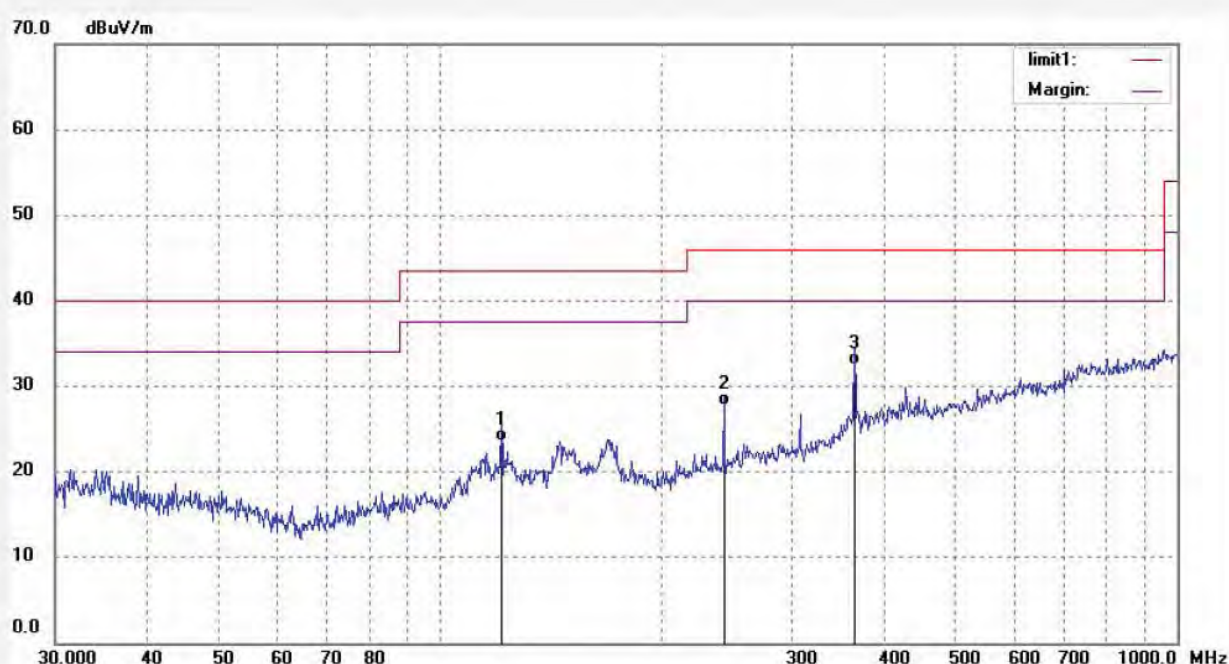
Date: 12/02/03/

Time: 9/28/05

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	8.74	14.75	23.49	43.50	-20.01	QP			
2	242.6889	10.82	16.94	27.76	46.00	-18.24	QP			
3	364.8026	11.03	21.46	32.49	46.00	-13.51	QP			



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #920

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6(802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

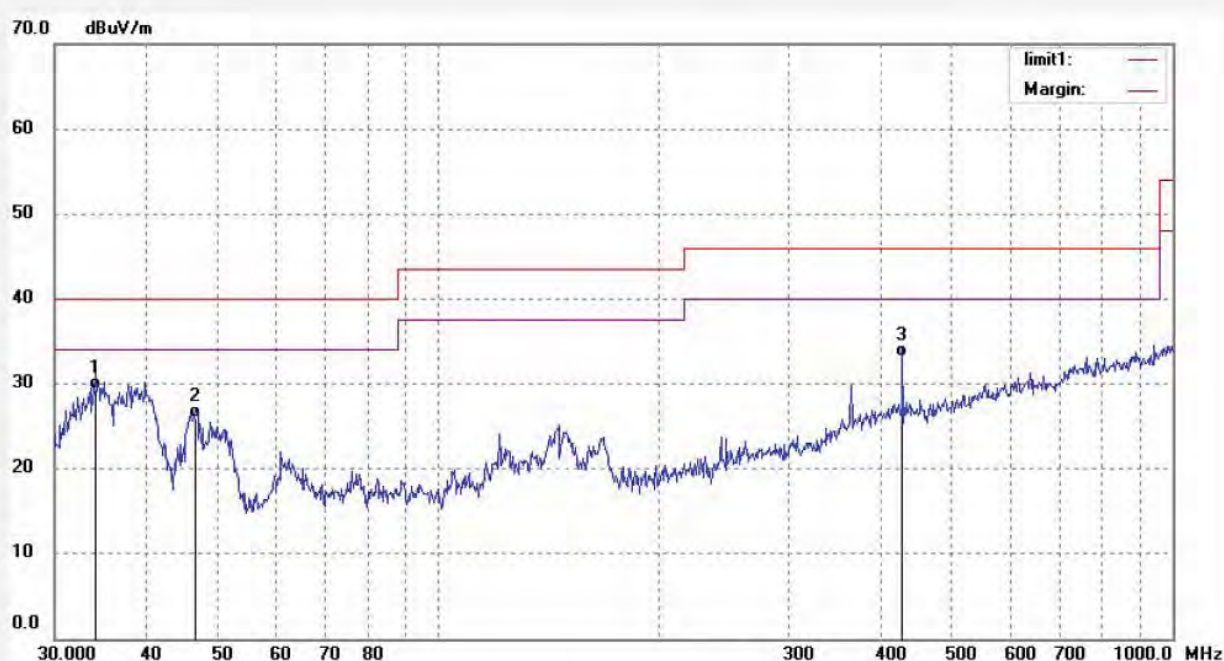
Date: 12/02/03/

Time: 9/29/04

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.1649	12.41	16.88	29.29	40.00	-10.71	QP			
2	46.7077	10.59	15.43	26.02	40.00	-13.98	QP			
3	428.7960	10.16	23.01	33.17	46.00	-12.83	QP			


ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-28503290

Fax:+86-0755-28503398

Job No.: Bob #1627

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 6 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

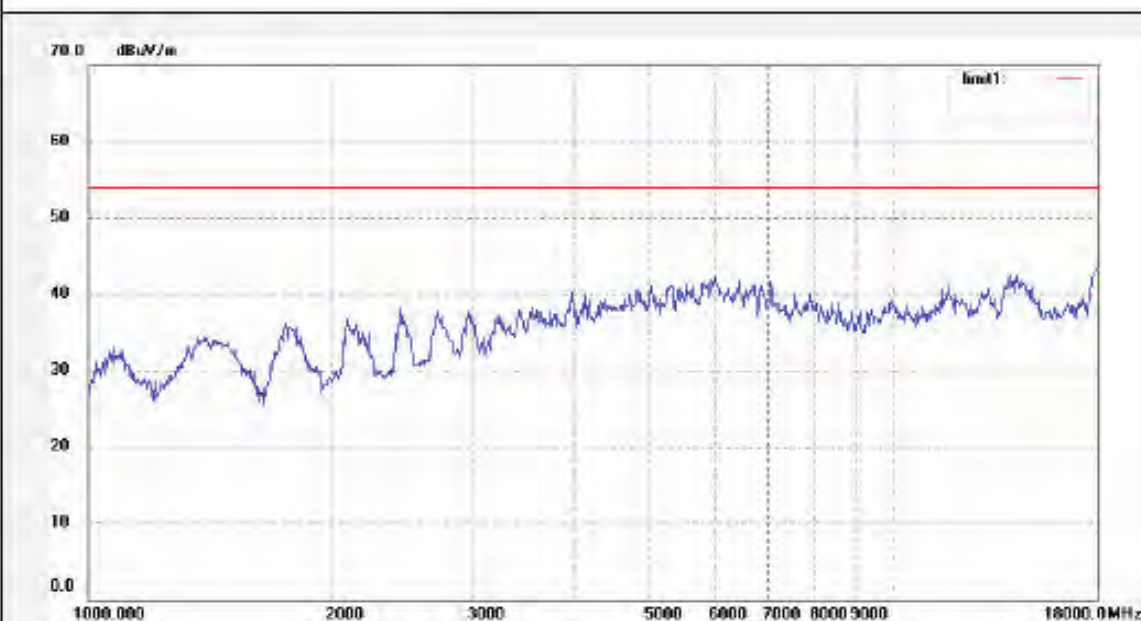
Date: 12/02/06

Time: 12:09:47

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 986 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503398

Job No.: Bob #1628

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 6 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

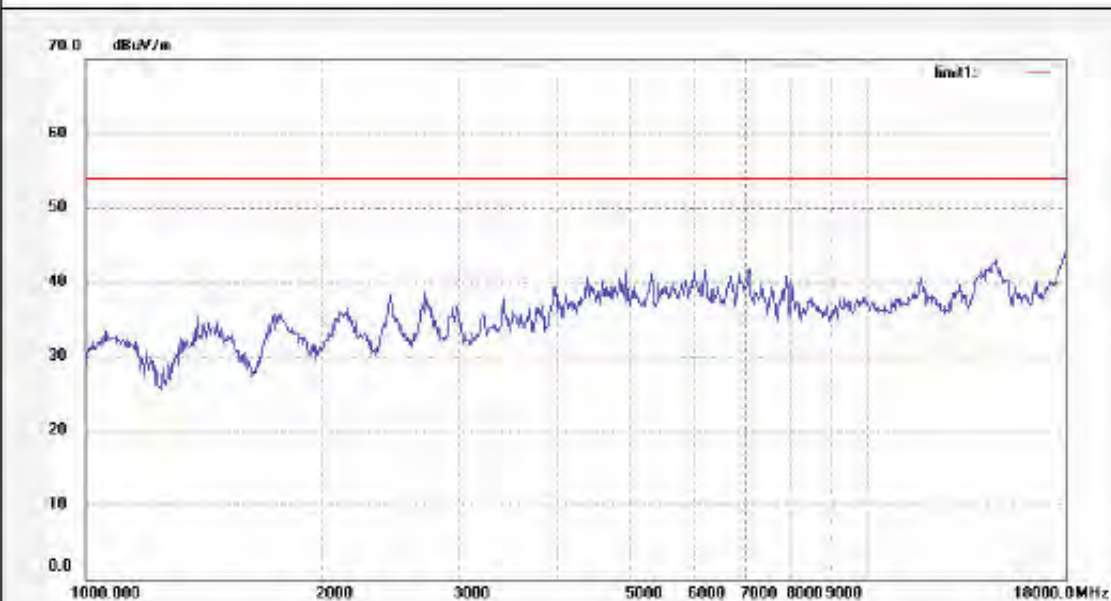
Date: 12/02/06

Time: 12:13:30

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1609

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 6 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

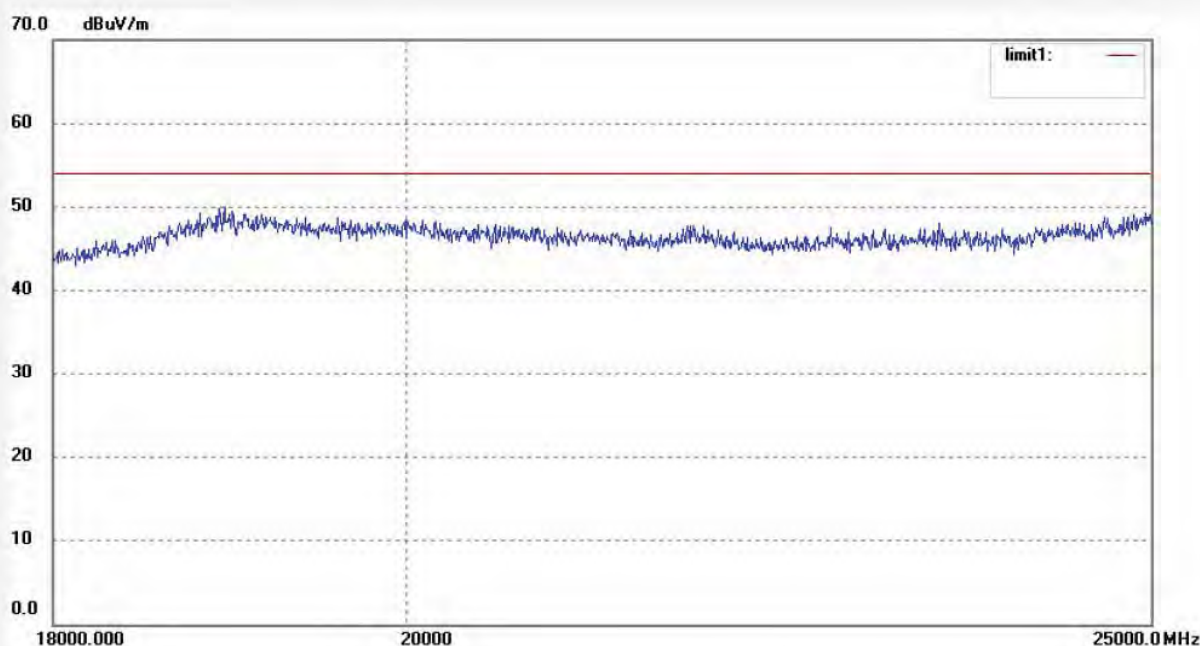
Date: 12/02/06

Time: 10:38:38

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1610

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 6 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

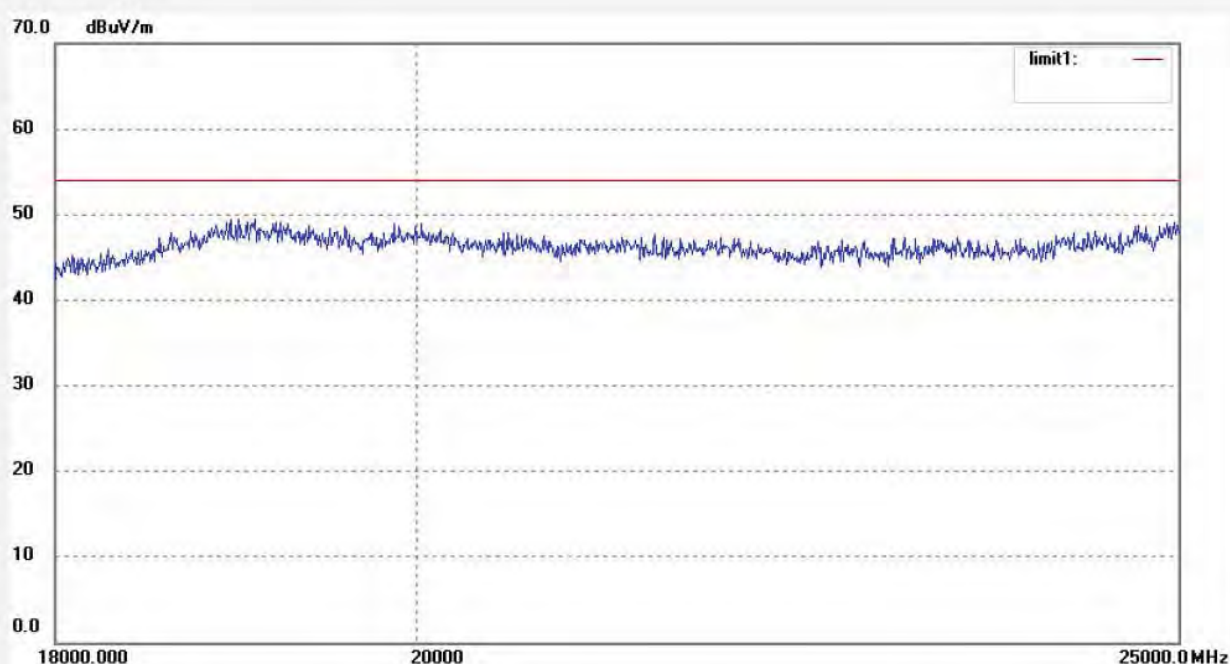
Date: 12/02/06

Time: 10:43:17

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #926

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

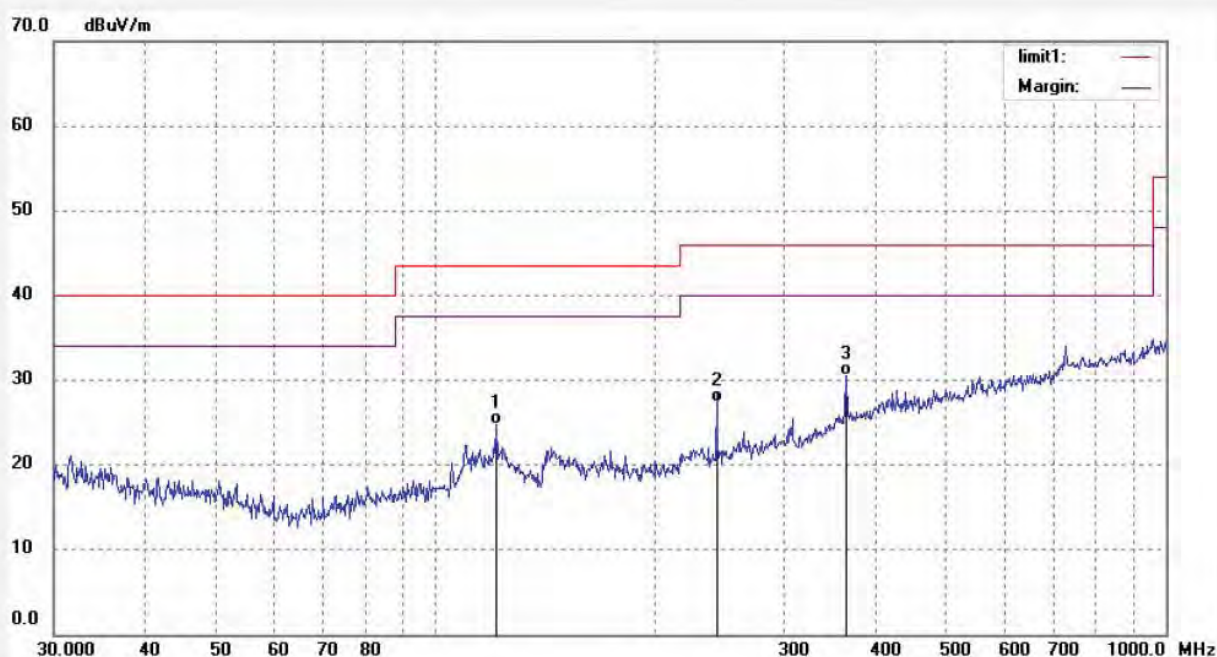
Date: 12/02/03/

Time: 9/34/13

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	9.94	14.75	24.69	43.50	-18.81	QP			
2	242.6889	10.44	16.94	27.38	46.00	-18.62	QP			
3	364.8026	9.16	21.46	30.62	46.00	-15.38	QP			



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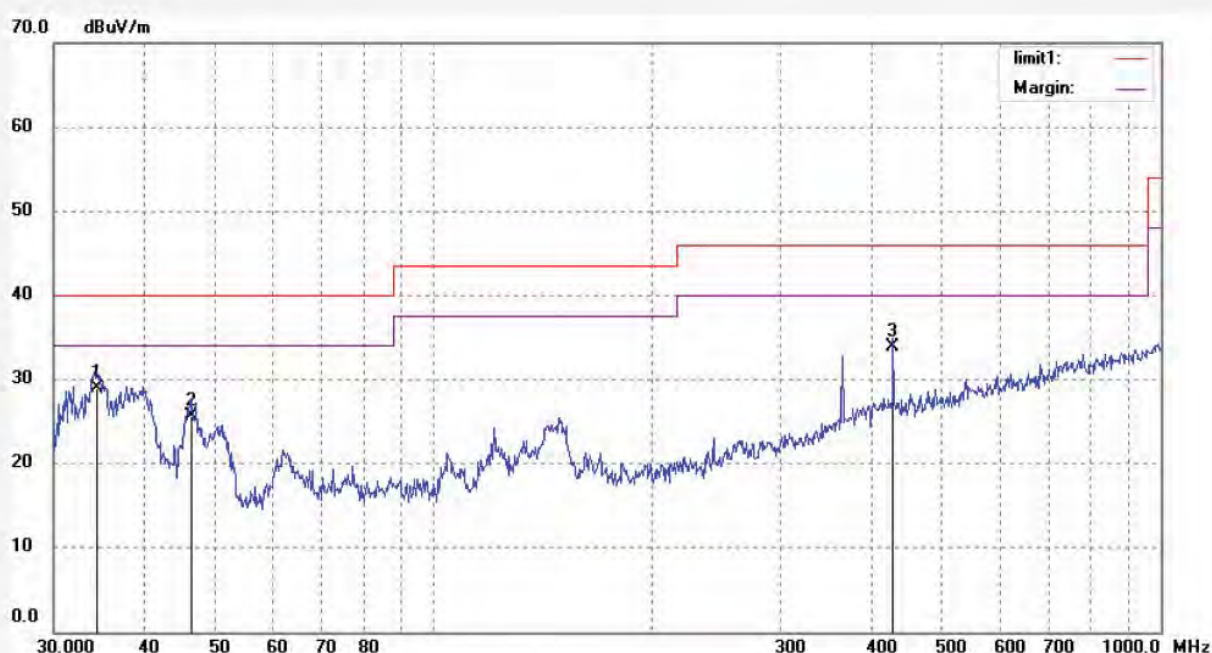
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #925
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11(802.11g)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/33/17
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	12.21	16.82	29.03	40.00	-10.97	peak			
2	46.3806	10.12	15.53	25.65	40.00	-14.35	peak			
3	428.7960	10.82	23.01	33.83	46.00	-12.17	peak			



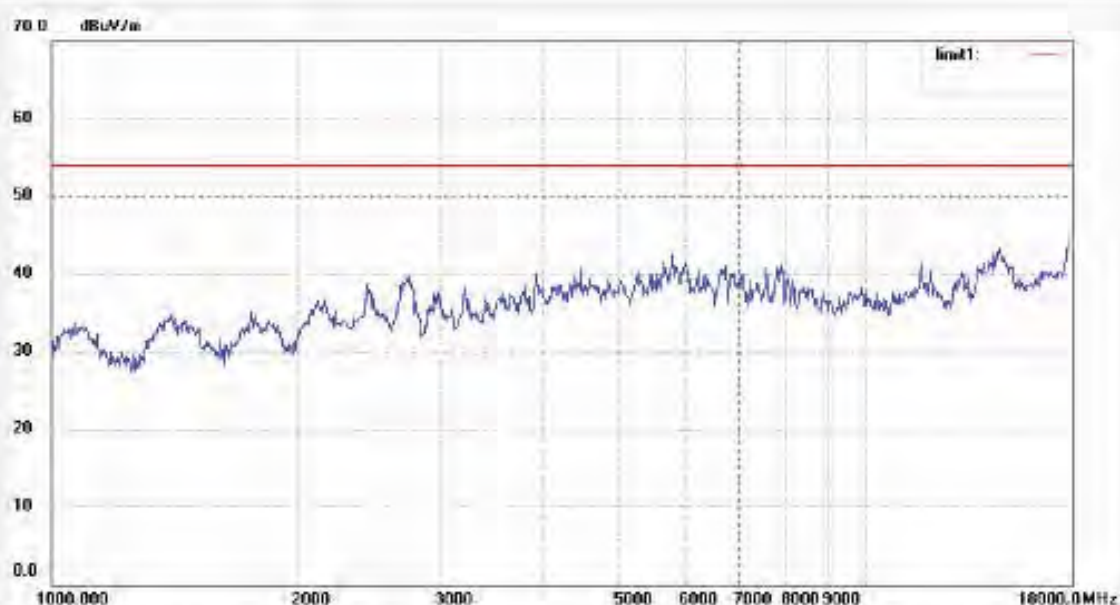
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1630	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 12:18:54
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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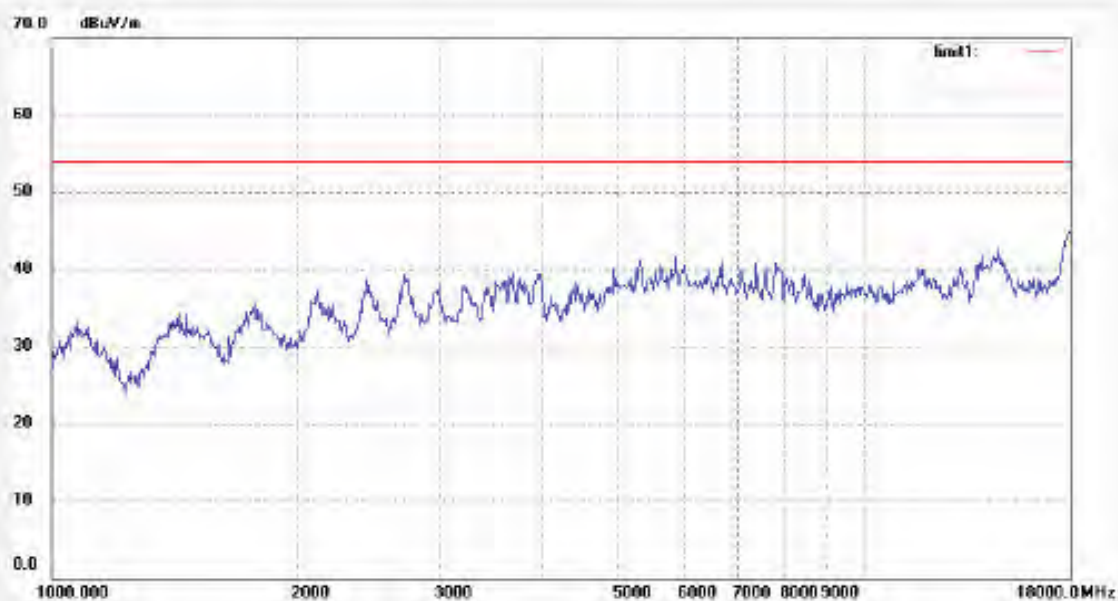
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1629	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 12:15:47
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1612

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 11 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

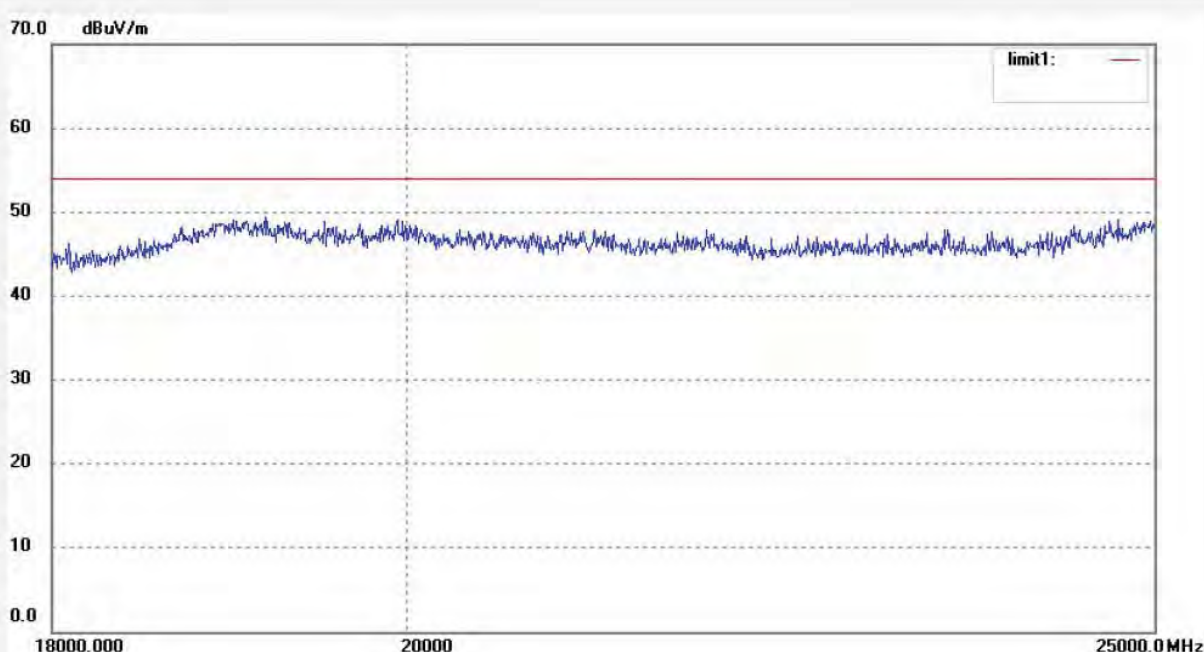
Date: 12/02/06

Time: 10:50:47

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1611

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 11 (802.11g)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

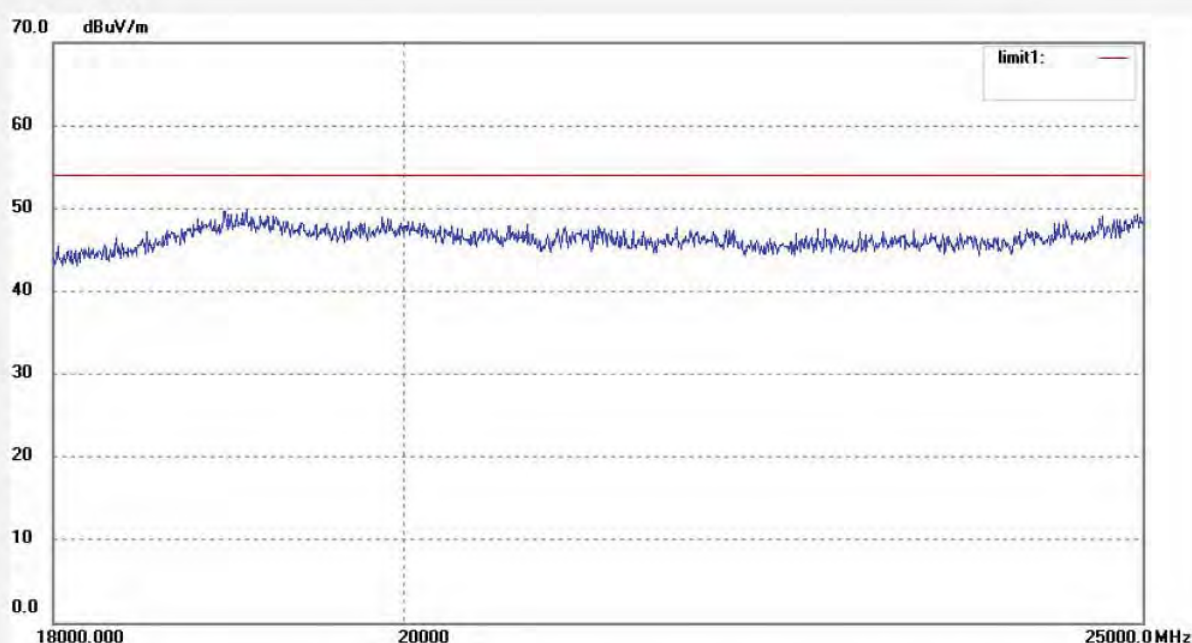
Date: 12/02/06

Time: 10:47:55

Engineer Signature: Bob

Distance: 3m

Note: Report No.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #915

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

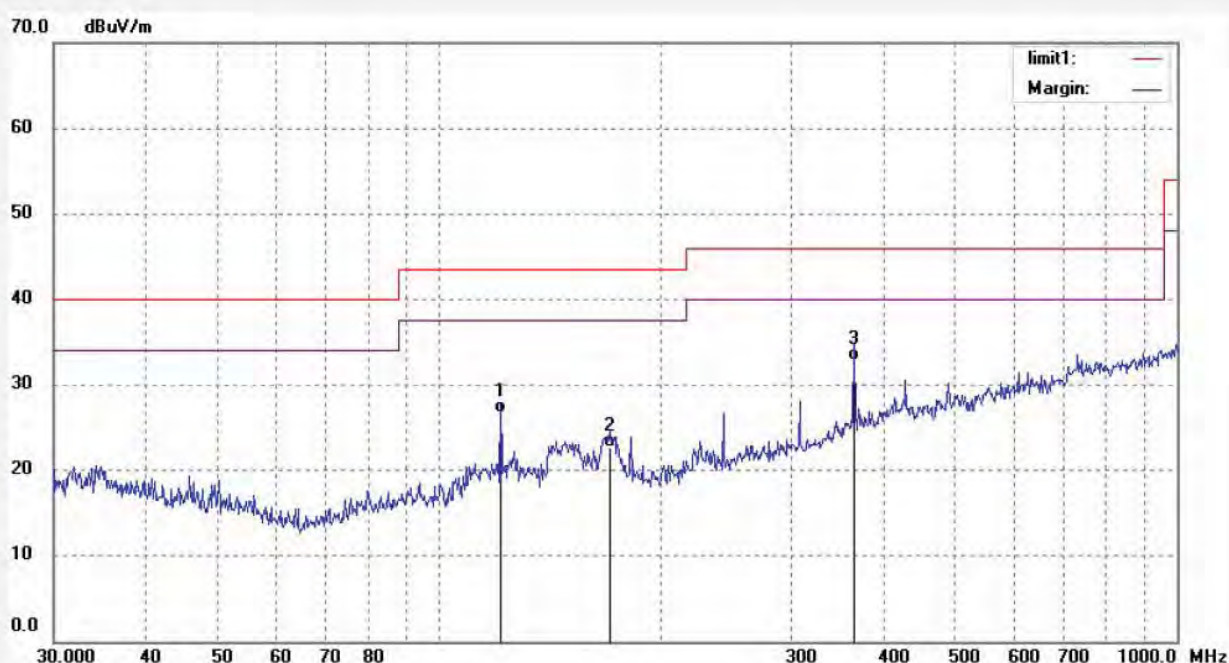
Date: 12/02/03/

Time: 9/21/37

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037





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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #916

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1(802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

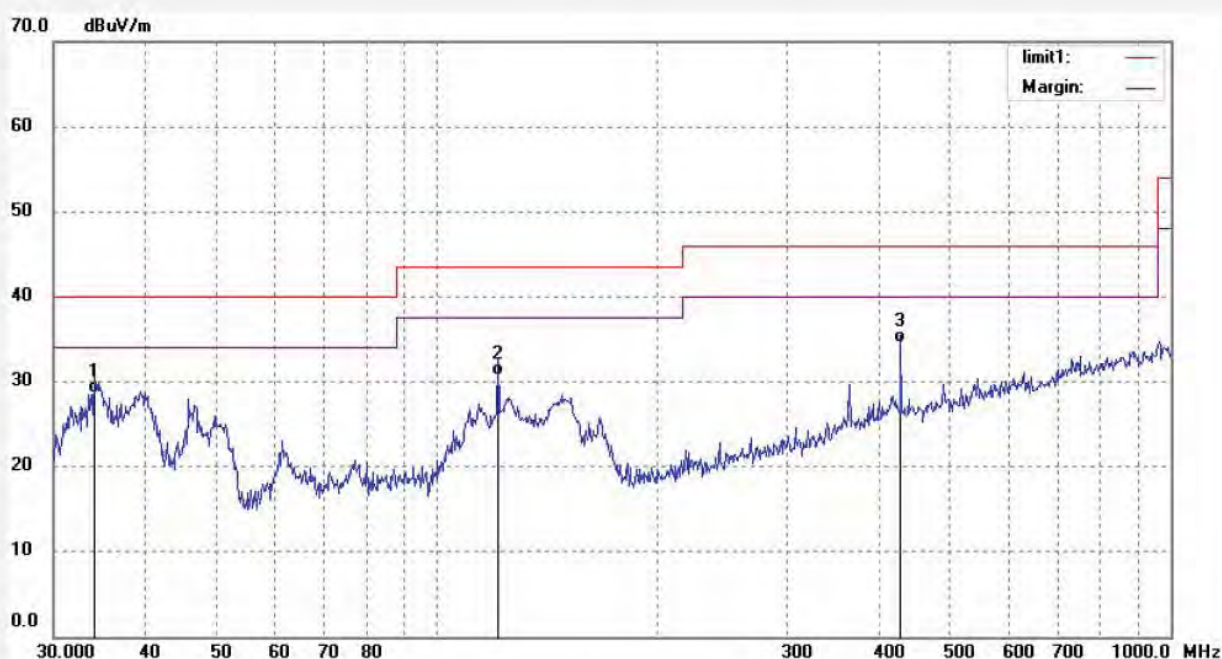
Date: 12/02/03/

Time: 9/22/34

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.0451	11.74	16.91	28.65	40.00	-11.35	QP			
2	121.0363	16.01	14.75	30.76	43.50	-12.74	QP			
3	428.7960	11.48	23.01	34.49	46.00	-11.51	QP			


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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 986 chamber

Tel:+86-0755-28503290

Fax:+86-0755-28503396

Job No.: Bob #1631

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 1 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

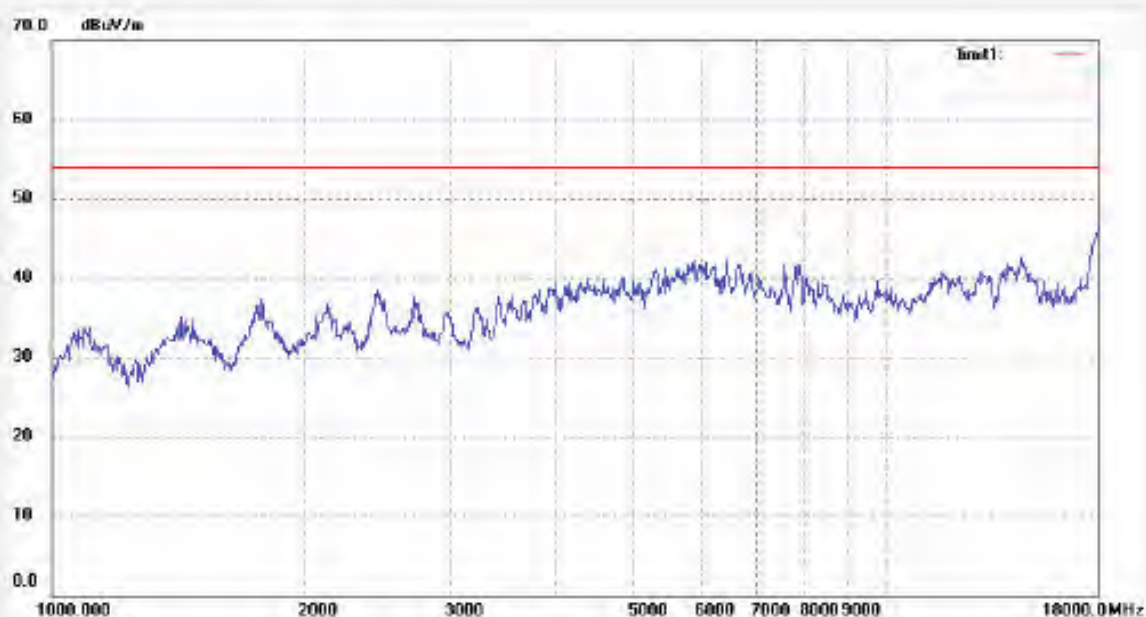
Date: 12/02/06

Time: 12:21:30

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1832

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 1 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

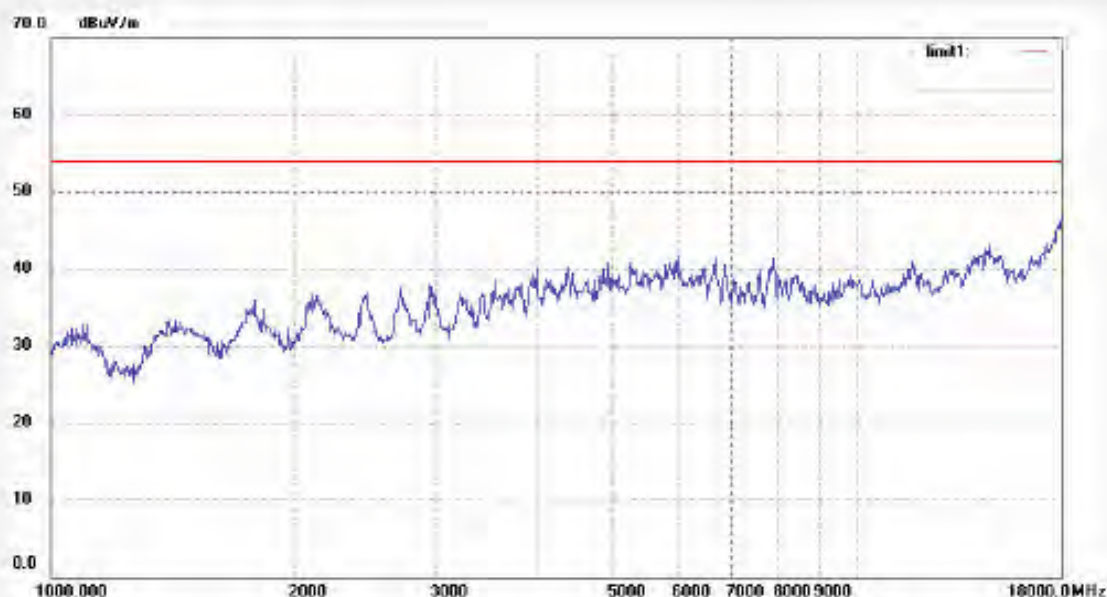
Date: 12/02/06

Time: 12:23:06

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1617

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

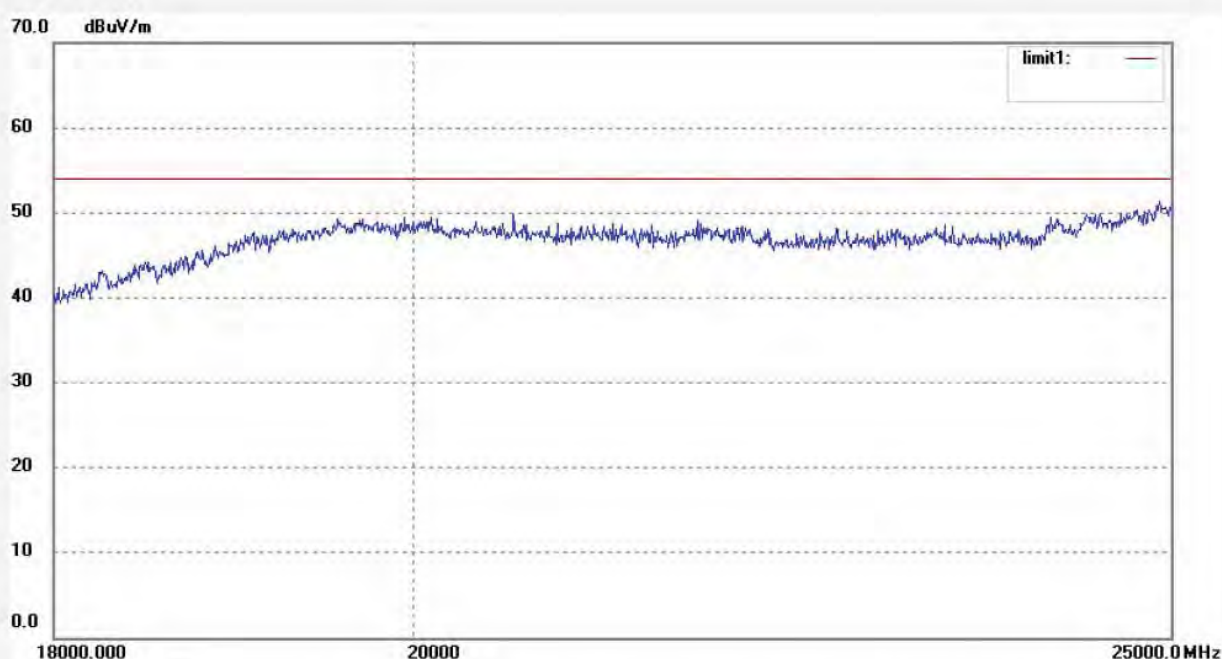
Date: 12/02/06

Time: 11:09:37

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1618

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 1 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

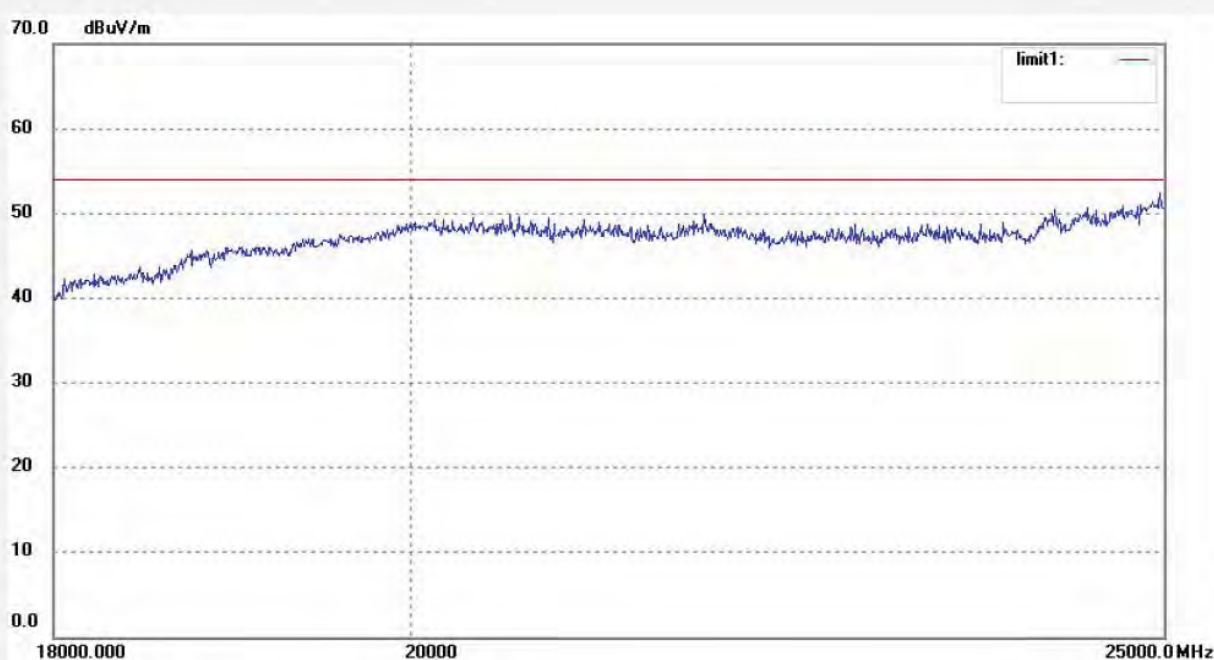
Date: 12/02/06

Time: 11:14:41

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #918

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6(802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

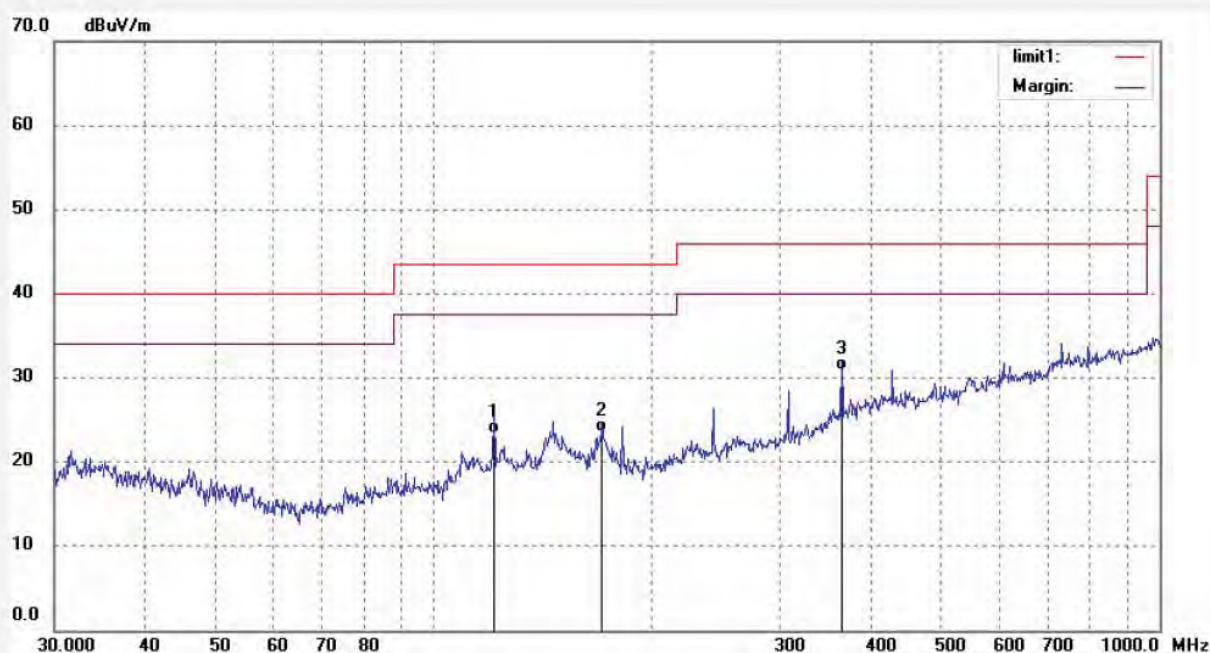
Date: 12/02/03/

Time: 9/27/24

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	8.61	14.75	23.36	43.50	-20.14	QP			
2	170.7878	7.90	15.72	23.62	43.50	-19.88	QP			
3	364.8026	9.42	21.46	30.88	46.00	-15.12	QP			



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #917

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6(802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

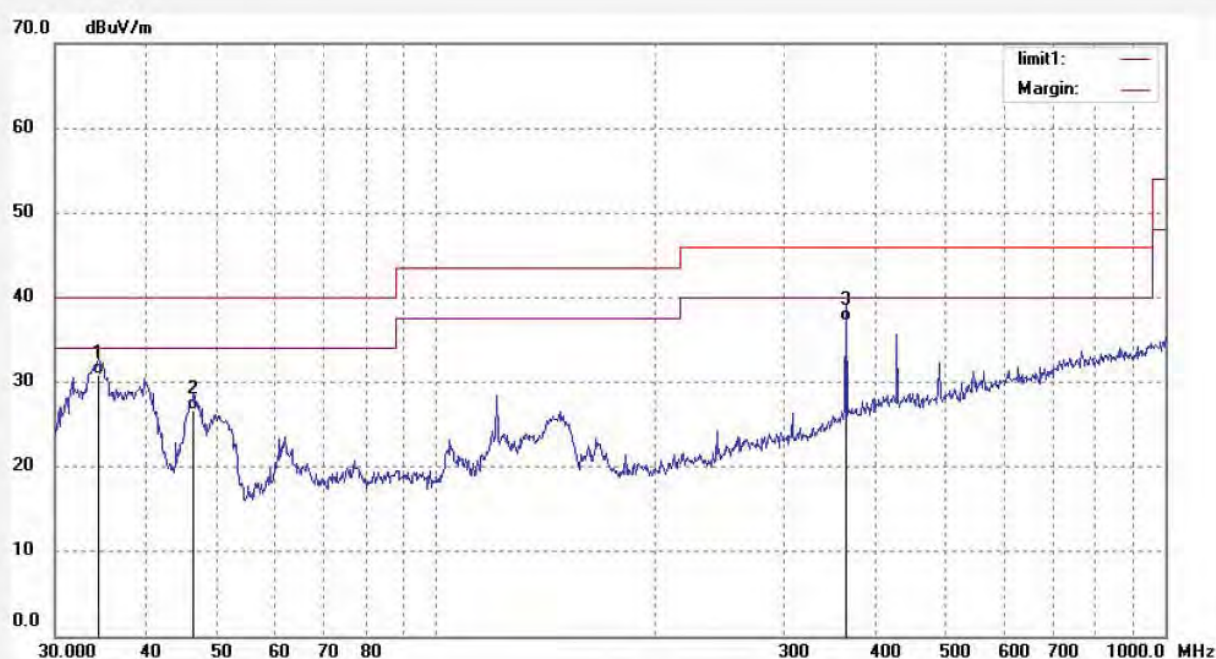
Date: 12/02/03/

Time: 9/26/06

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	14.09	16.82	30.91	40.00	-9.09	QP			
2	46.5439	11.23	15.49	26.72	40.00	-13.28	QP			
3	364.8026	15.65	21.46	37.11	46.00	-8.89	QP			


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F1,Bldg.A,Changyuan New Material Port Keyuan Rd.
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 986 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1834

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 6 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

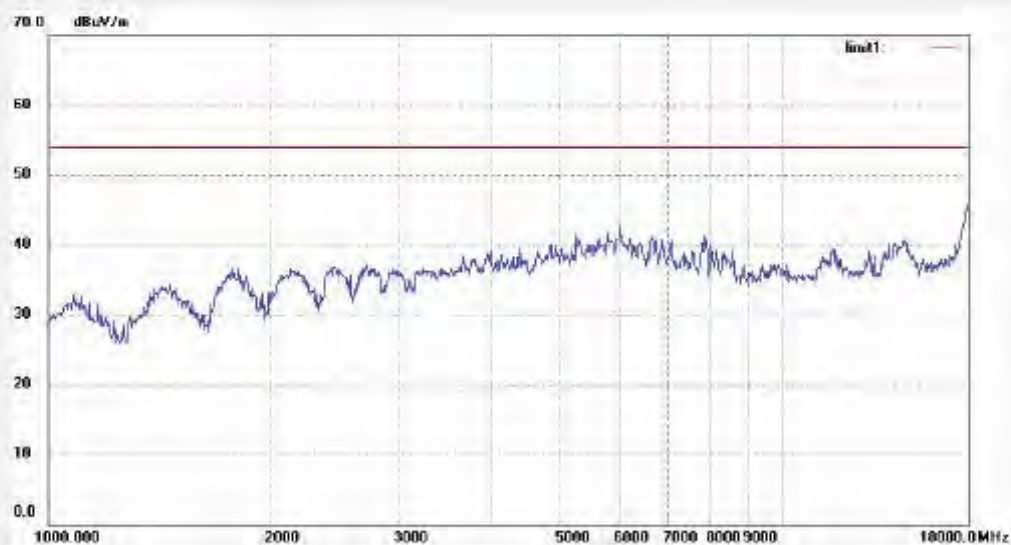
Date: 12/02/06

Time: 12:29:53

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1633

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 6 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

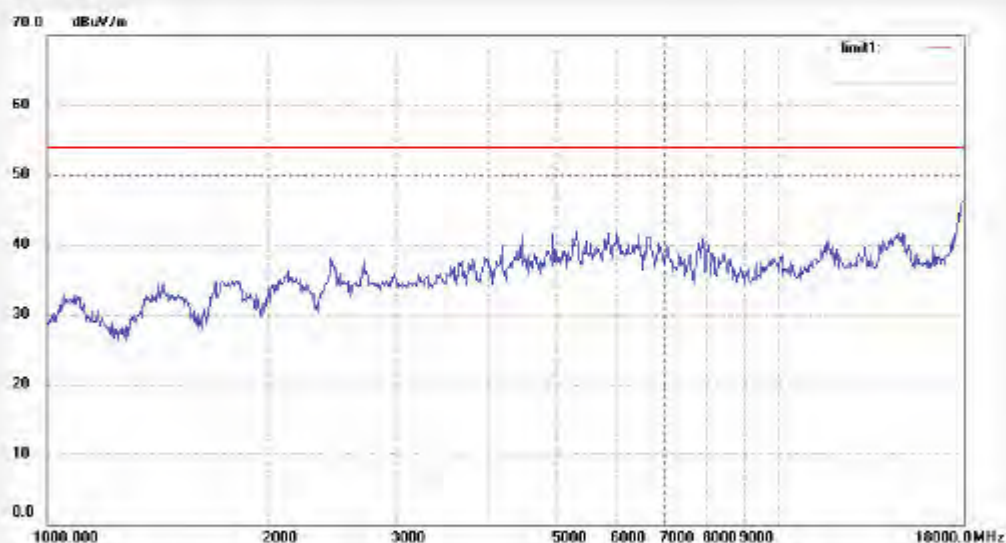
Date: 12/02/06

Time: 12:26:47

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1616

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

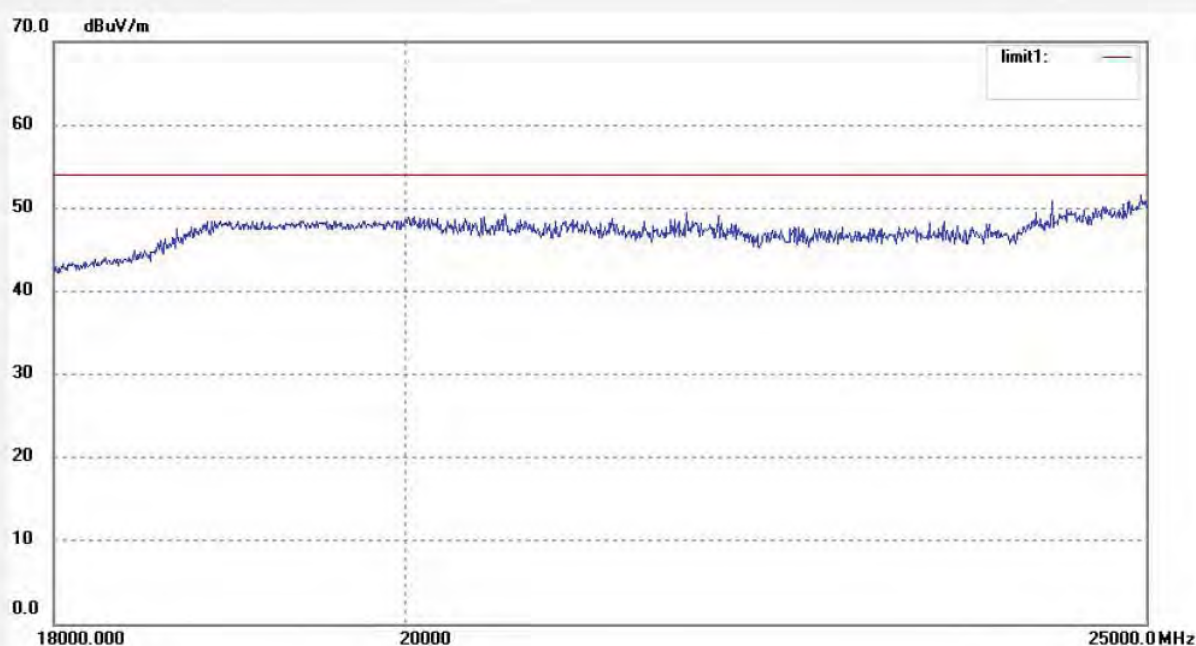
Date: 12/02/06

Time: 11:05:58

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1615

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

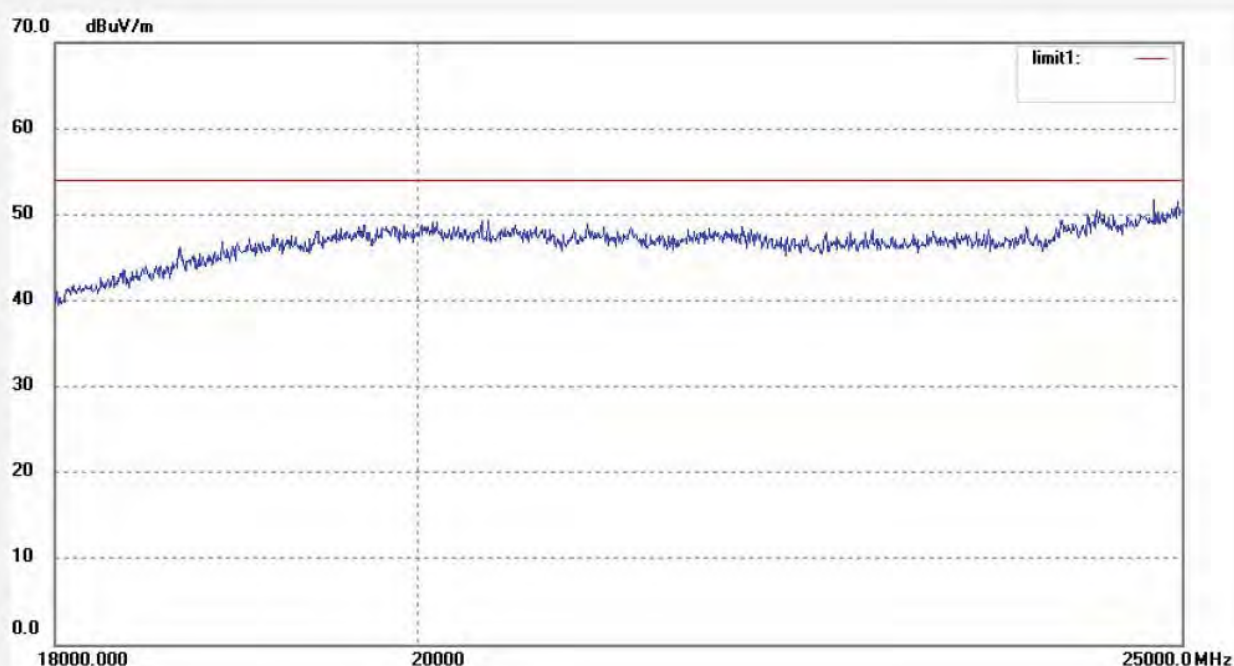
Date: 12/02/06

Time: 11:02:36

Engineer Signature: Bob

Distance:

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

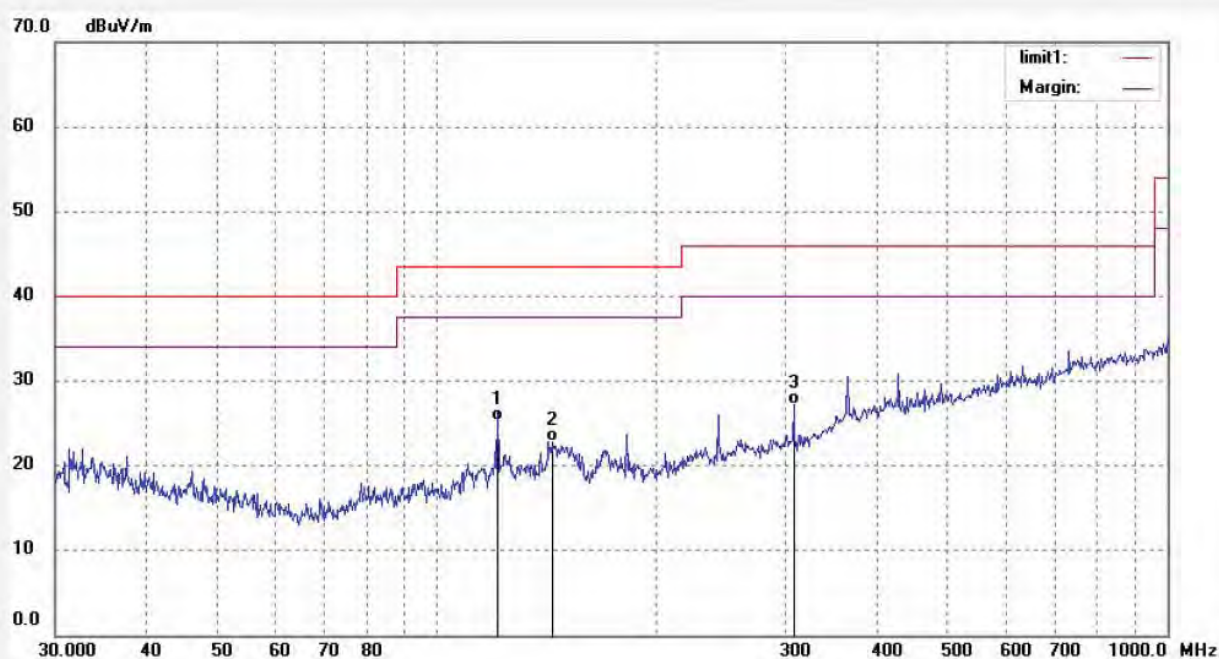
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #927
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11(802.11n)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/35/12
Engineer Signature:
Distance: 3m

Note: Report NO.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	10.55	14.75	25.30	43.50	-18.20	QP			
2	143.7760	8.36	14.48	22.84	43.50	-20.66	QP			
3	308.1862	8.17	18.98	27.15	46.00	-18.85	QP			



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #928

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11(802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

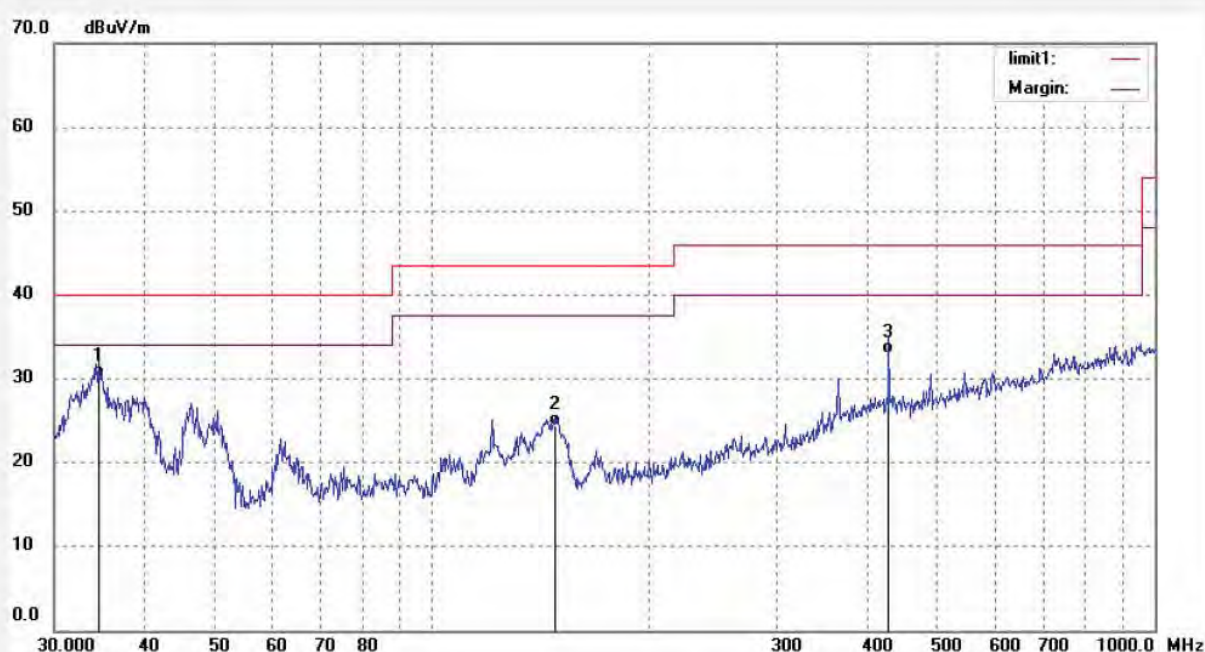
Date: 12/02/03/

Time: 9/35/49

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.5270	13.43	16.79	30.22	40.00	-9.78	QP			
2	147.8747	9.88	14.51	24.39	43.50	-19.11	QP			
3	428.7960	10.06	23.01	33.07	46.00	-12.93	QP			

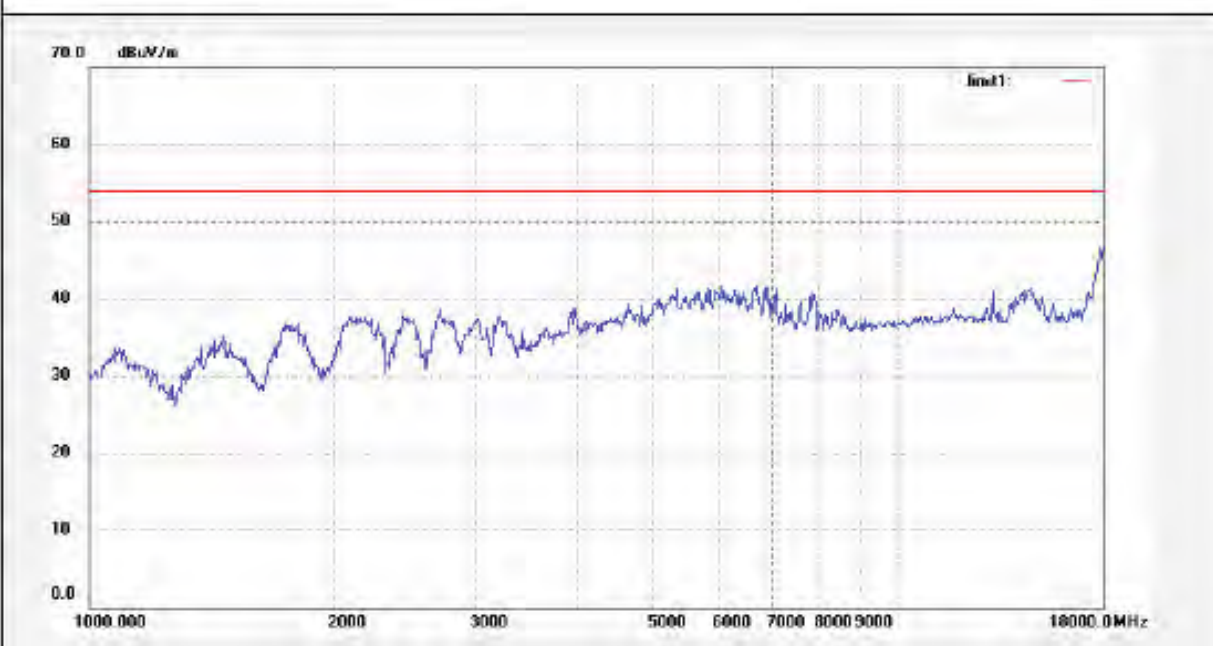

ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1635	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 12:33:17
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1636

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: mid

Mode: TX Channel 11 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

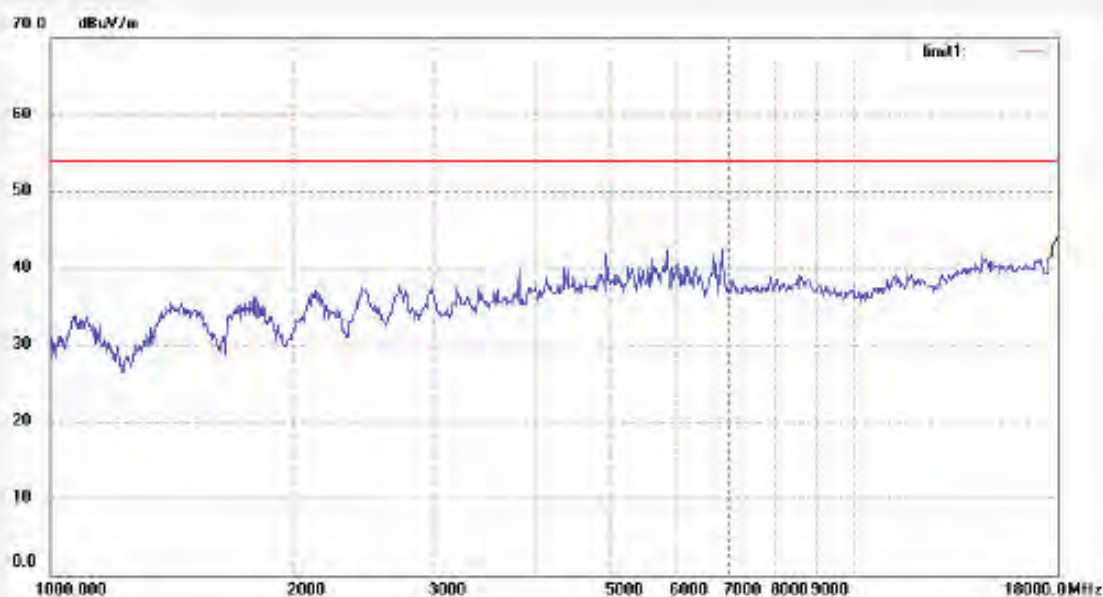
Date: 12/02/08

Time: 12:36:07

Engineer Signature: Bob

Distance: 3m

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1613

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal

Power Source: AC 120V/60Hz

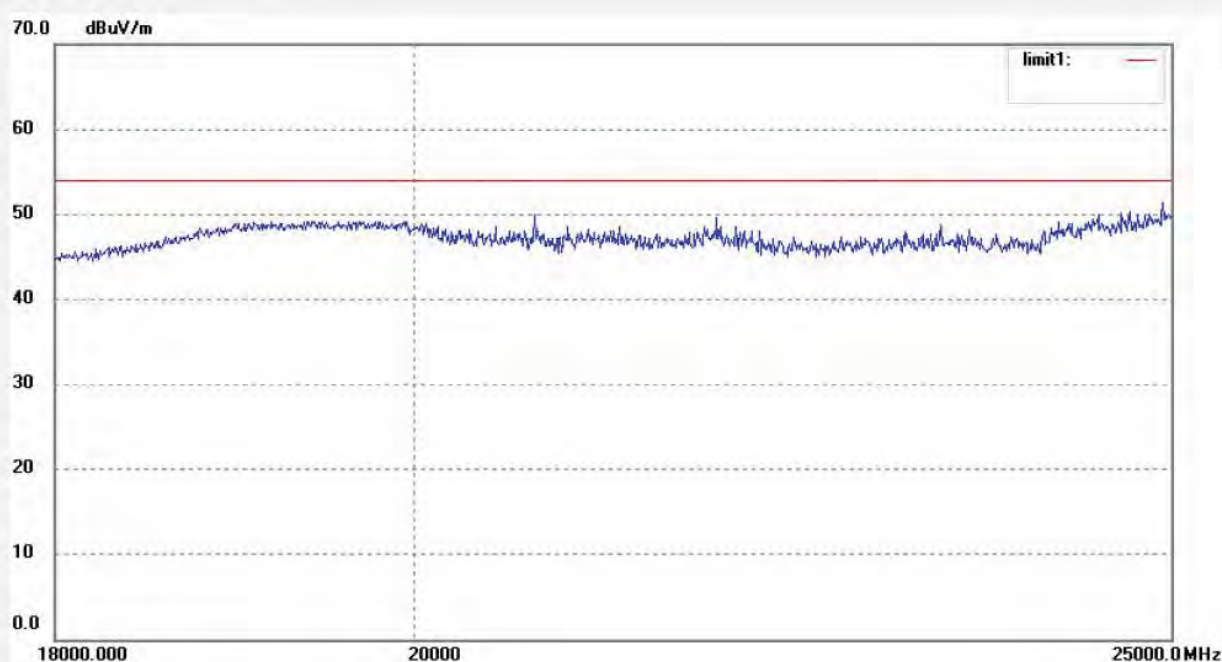
Date: 12/02/06

Time: 10:53:17

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1614

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11 (802.11n)

Model: GA20

Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical

Power Source: AC 120V/60Hz

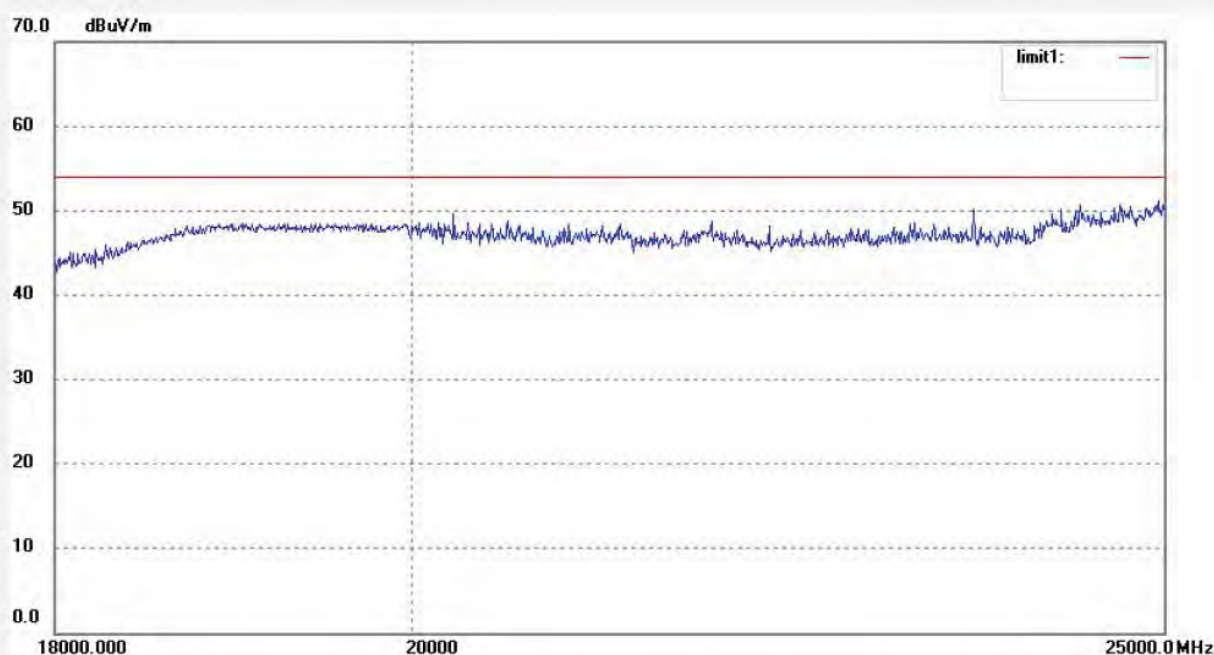
Date: 12/02/06

Time: 10:57:05

Engineer Signature: Bob

Distance:

Note: Report No.: ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



(EUT: MID)

10.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

10.5.Test Procedure

10.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

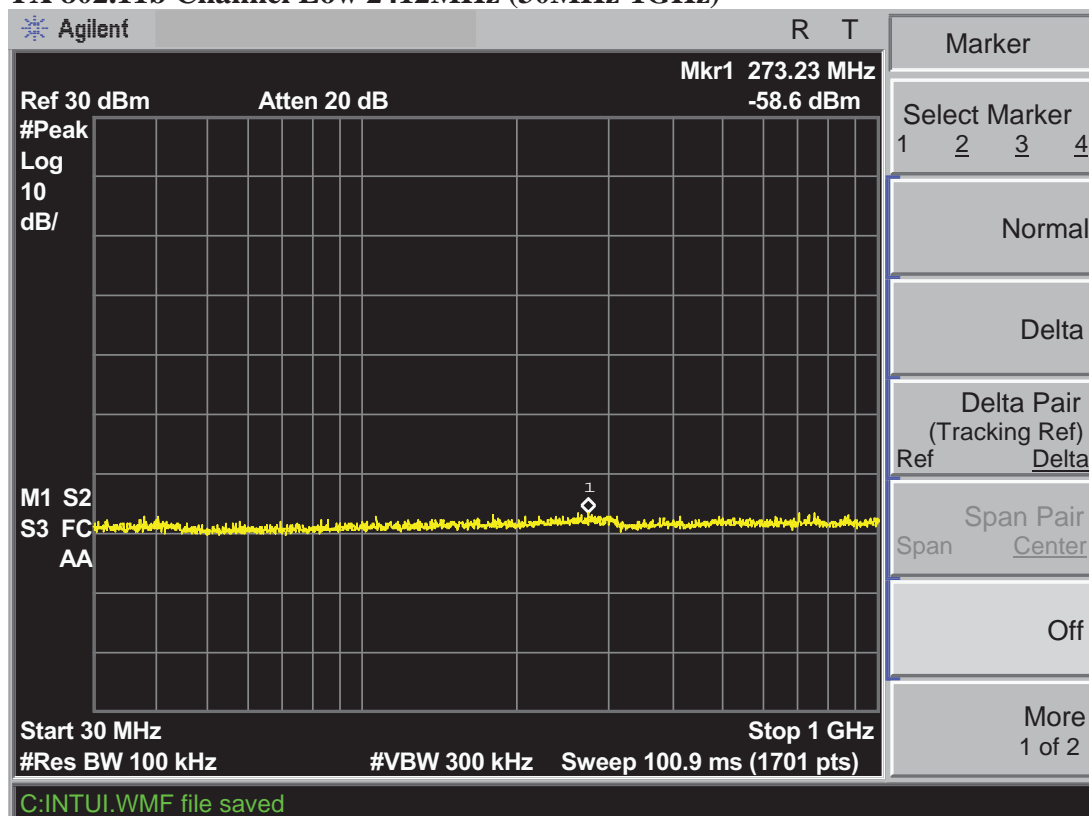
10.5.3.The Conducted Spurious Emission was measured and recorded.

10.6.Test Result

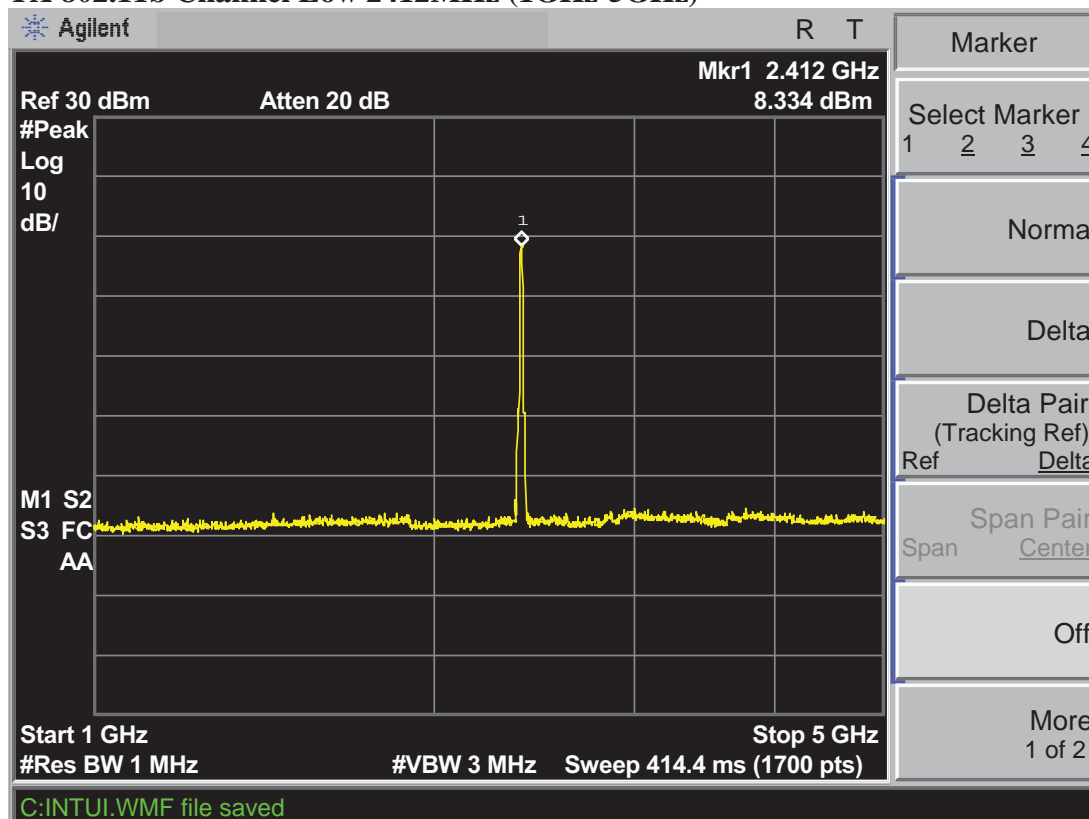
Pass.

The spectrum analyzer plots are attached as below.

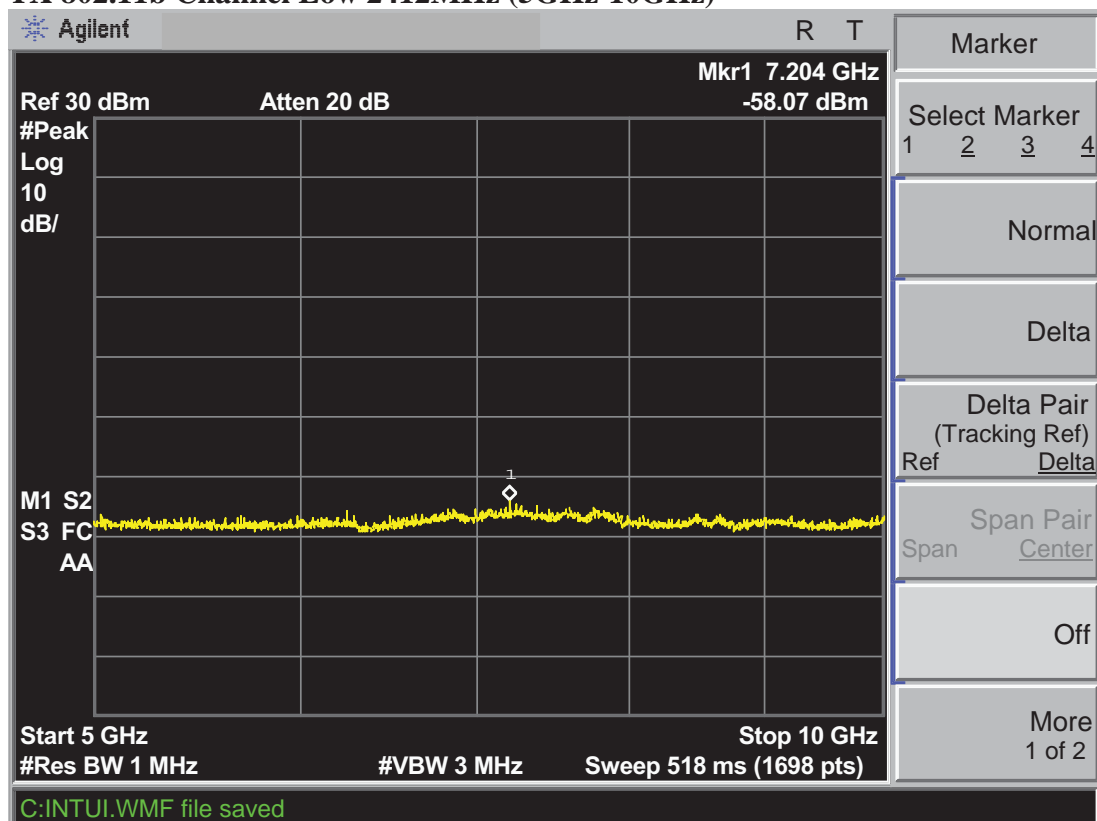
TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



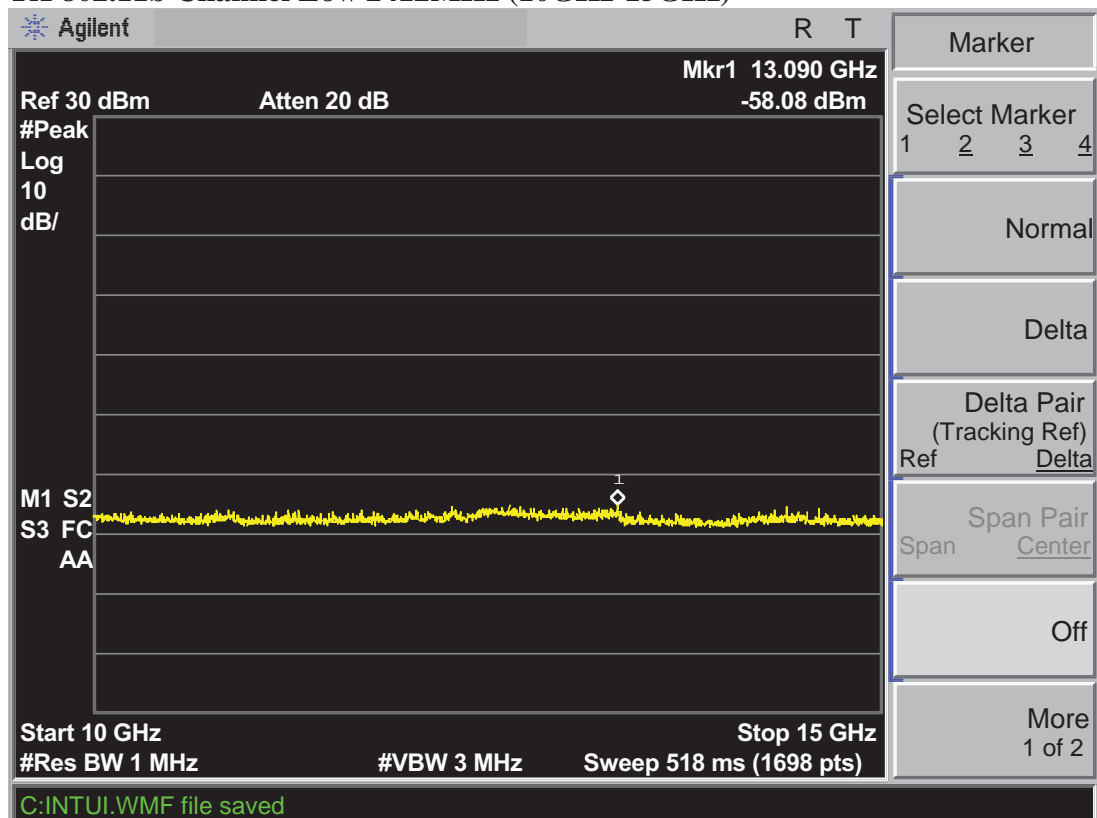
TX 802.11b Channel Low 2412MHz (1GHz-5GHz)



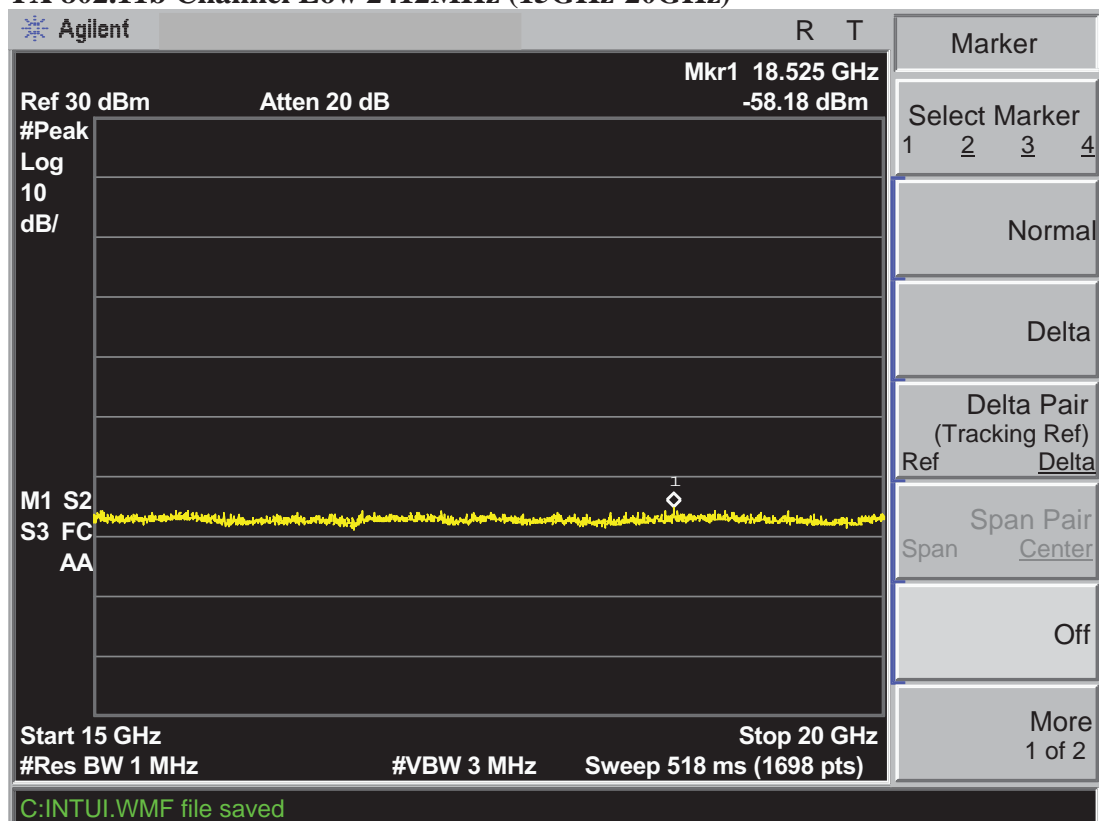
TX 802.11b Channel Low 2412MHz (5GHz-10GHz)



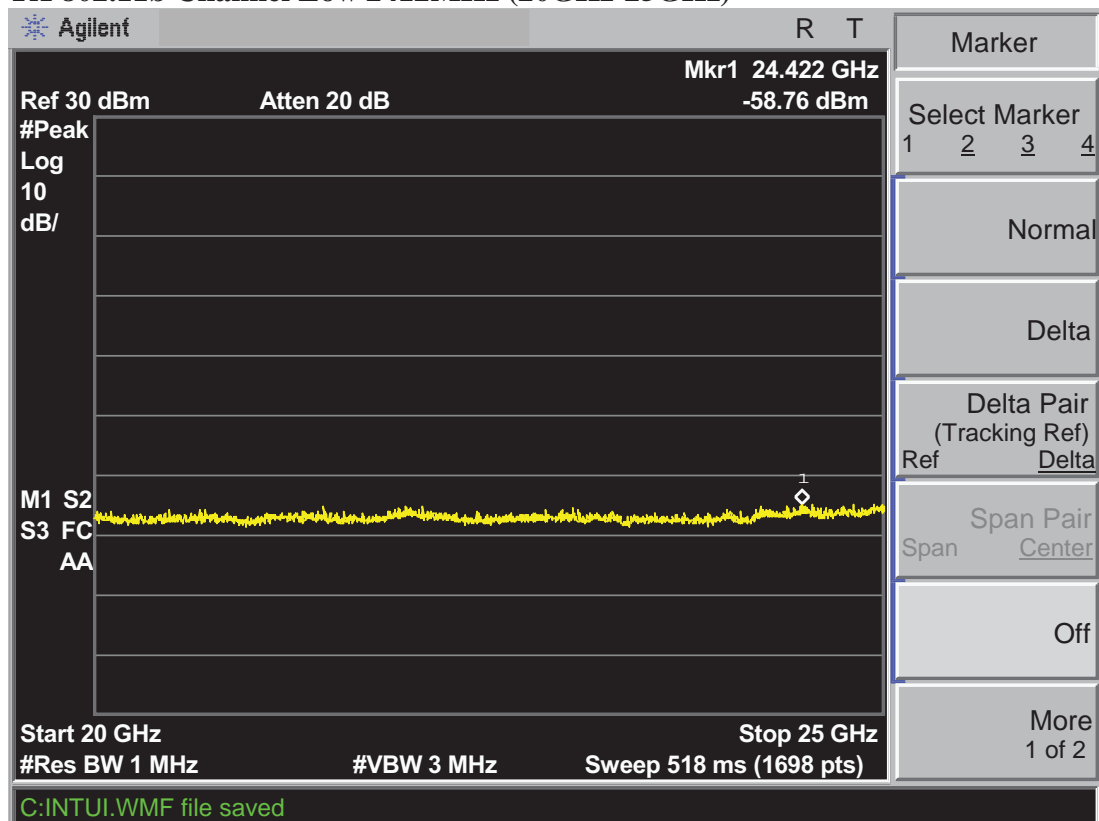
TX 802.11b Channel Low 2412MHz (10GHz-15GHz)



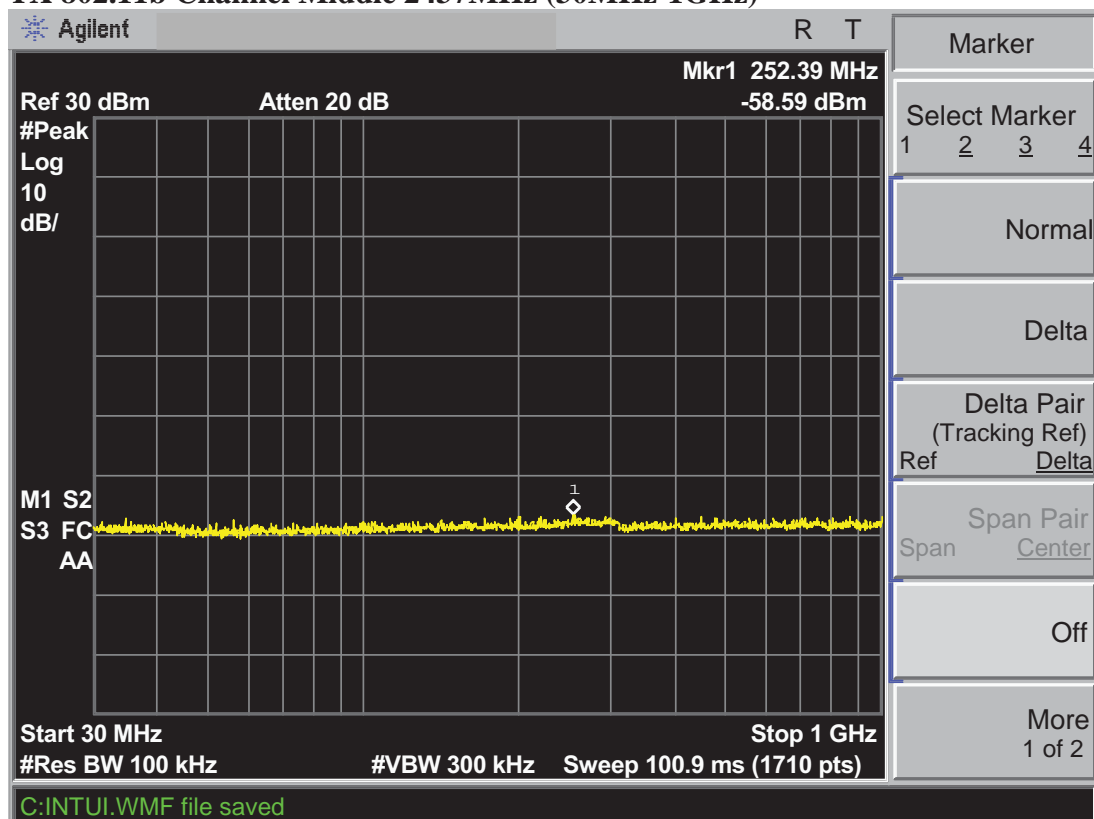
TX 802.11b Channel Low 2412MHz (15GHz-20GHz)



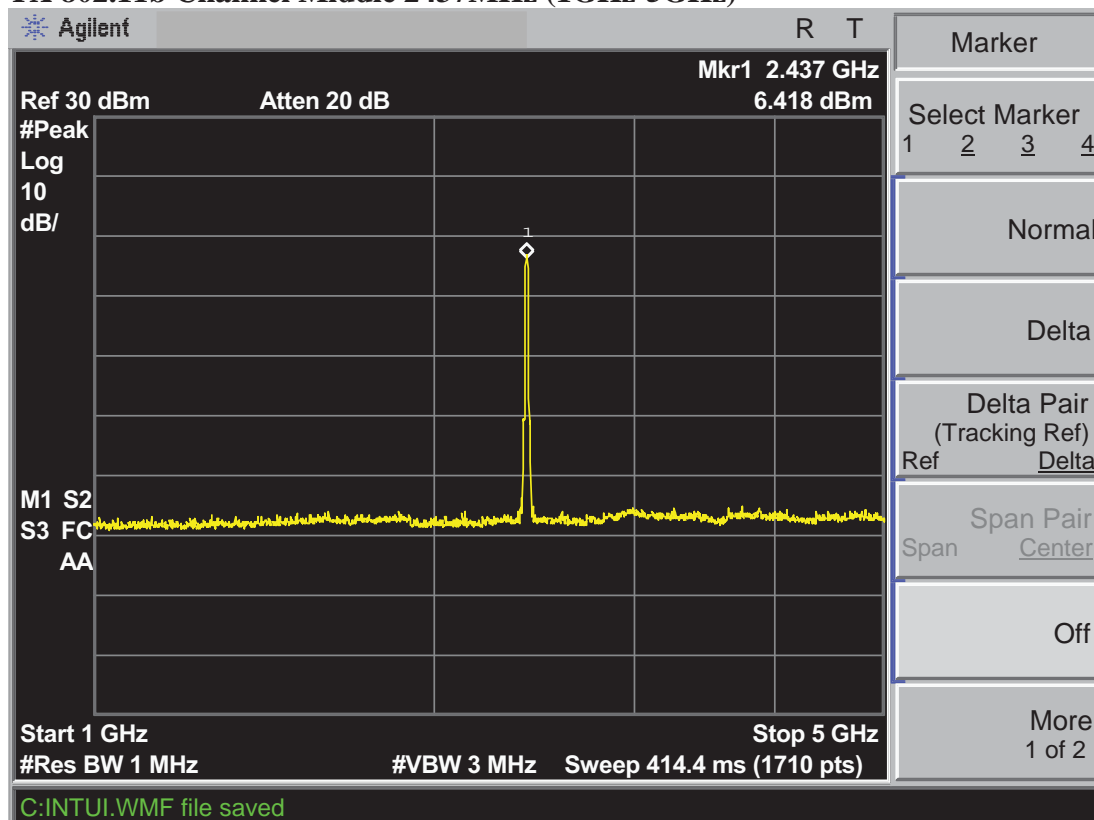
TX 802.11b Channel Low 2412MHz (20GHz-25GHz)



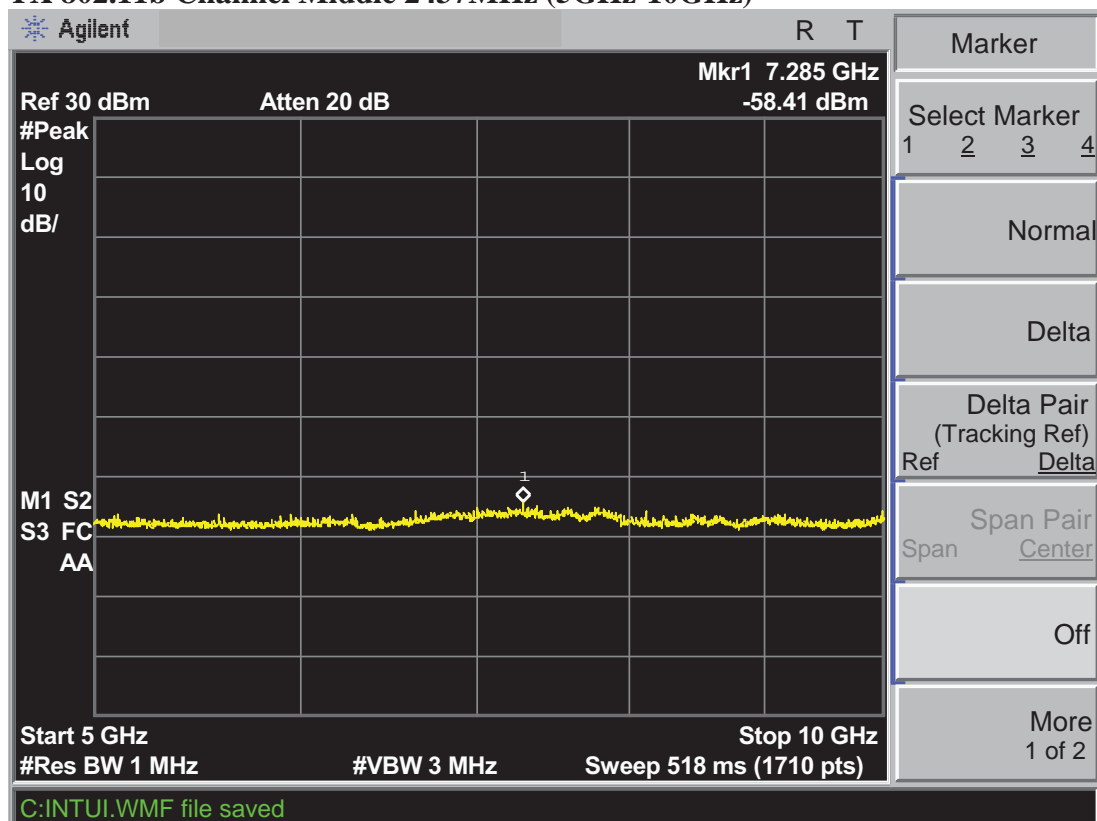
TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



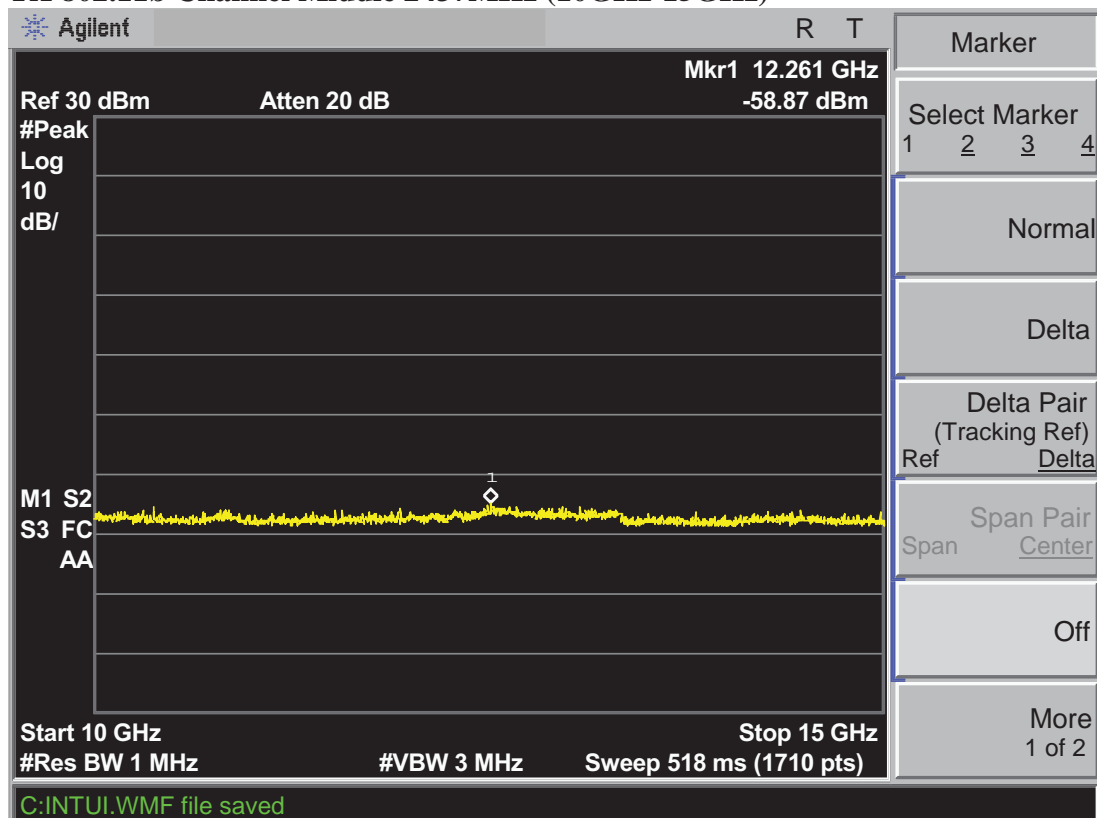
TX 802.11b Channel Middle 2437MHz (1GHz-5GHz)



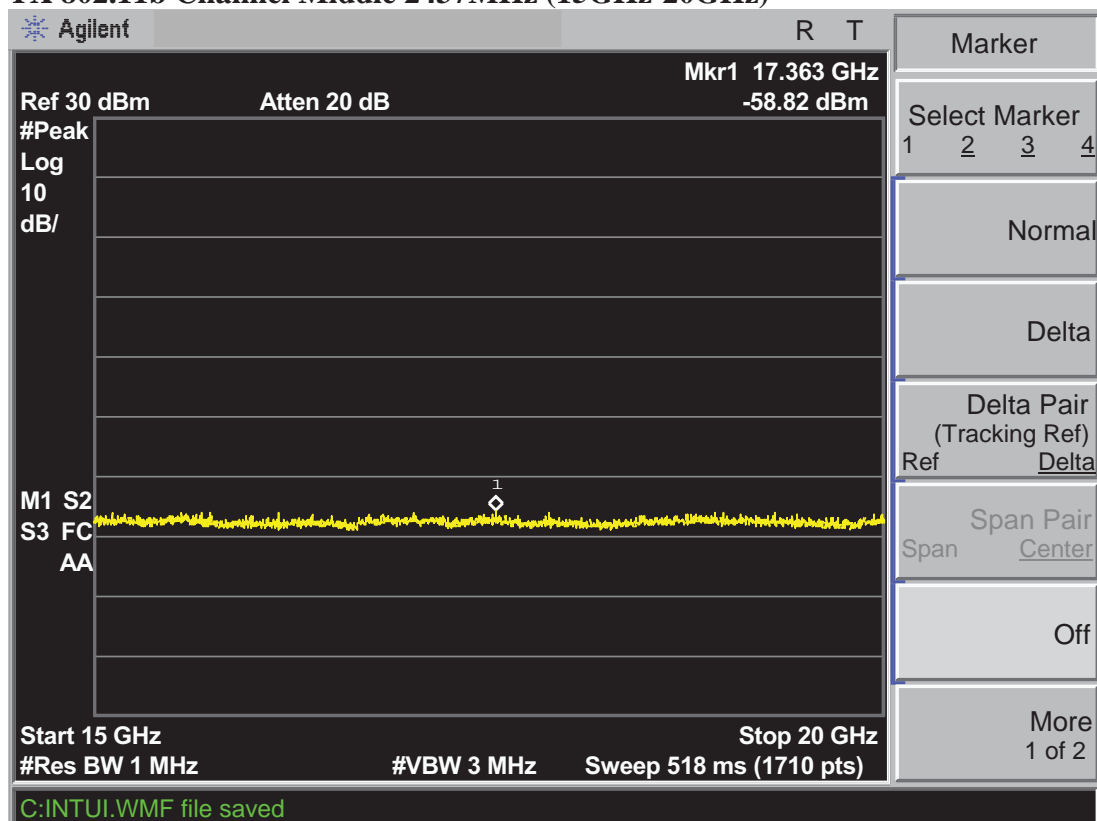
TX 802.11b Channel Middle 2437MHz (5GHz-10GHz)



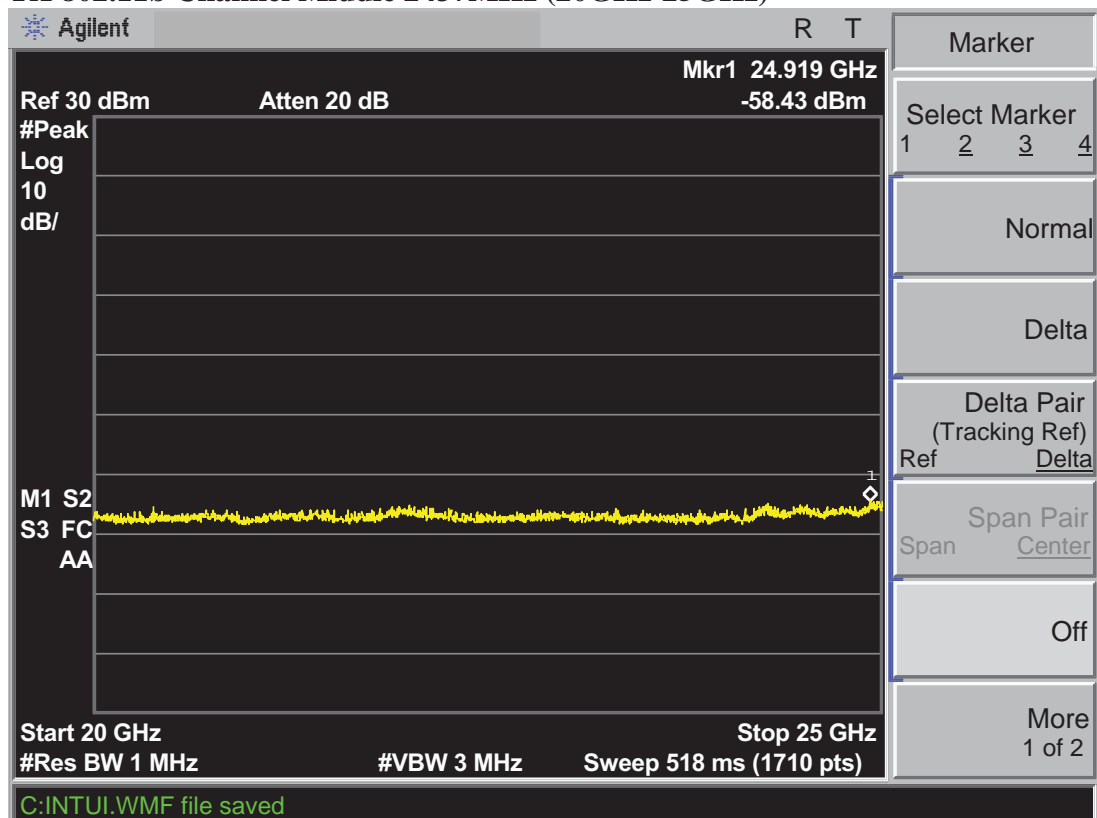
TX 802.11b Channel Middle 2437MHz (10GHz-15GHz)



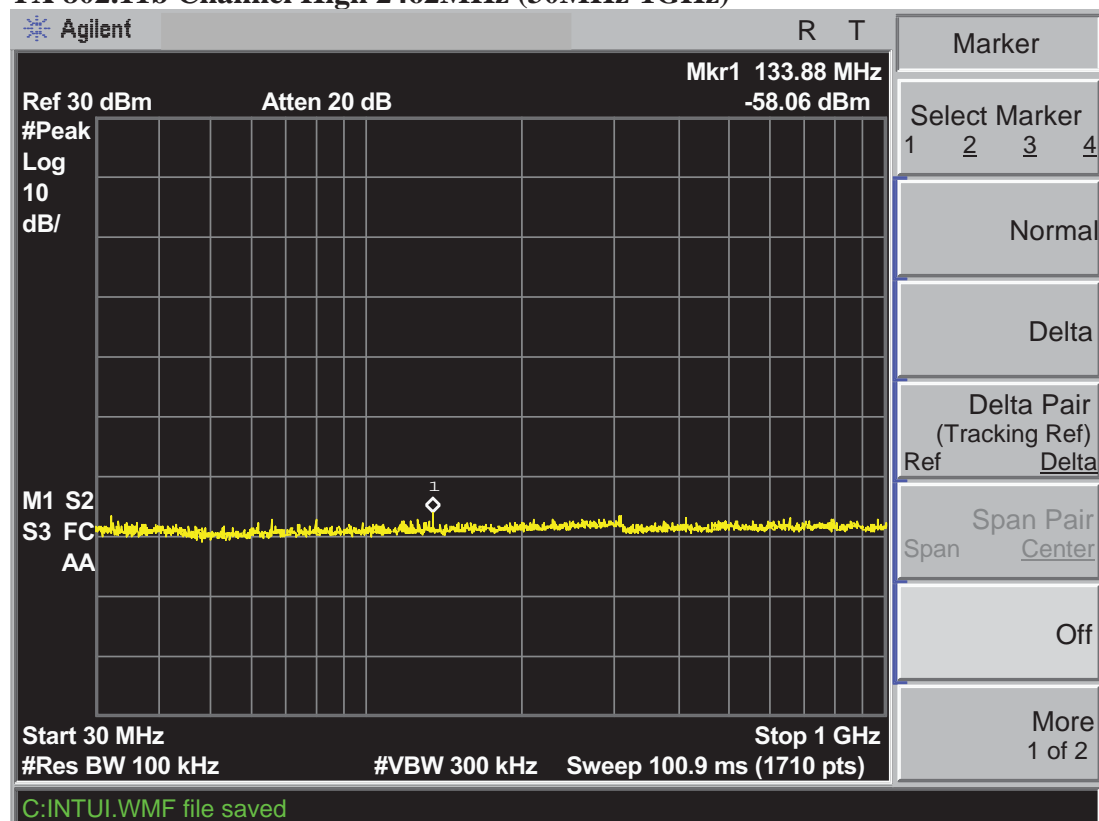
TX 802.11b Channel Middle 2437MHz (15GHz-20GHz)



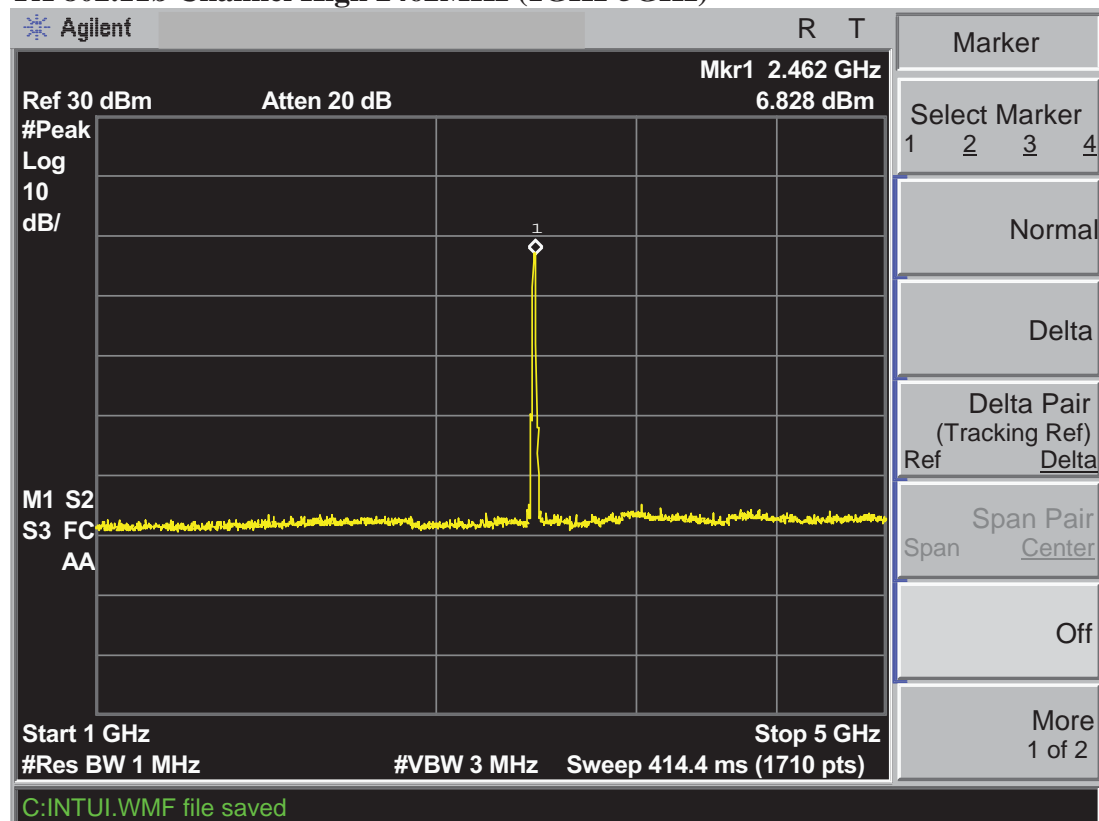
TX 802.11b Channel Middle 2437MHz (20GHz-25GHz)



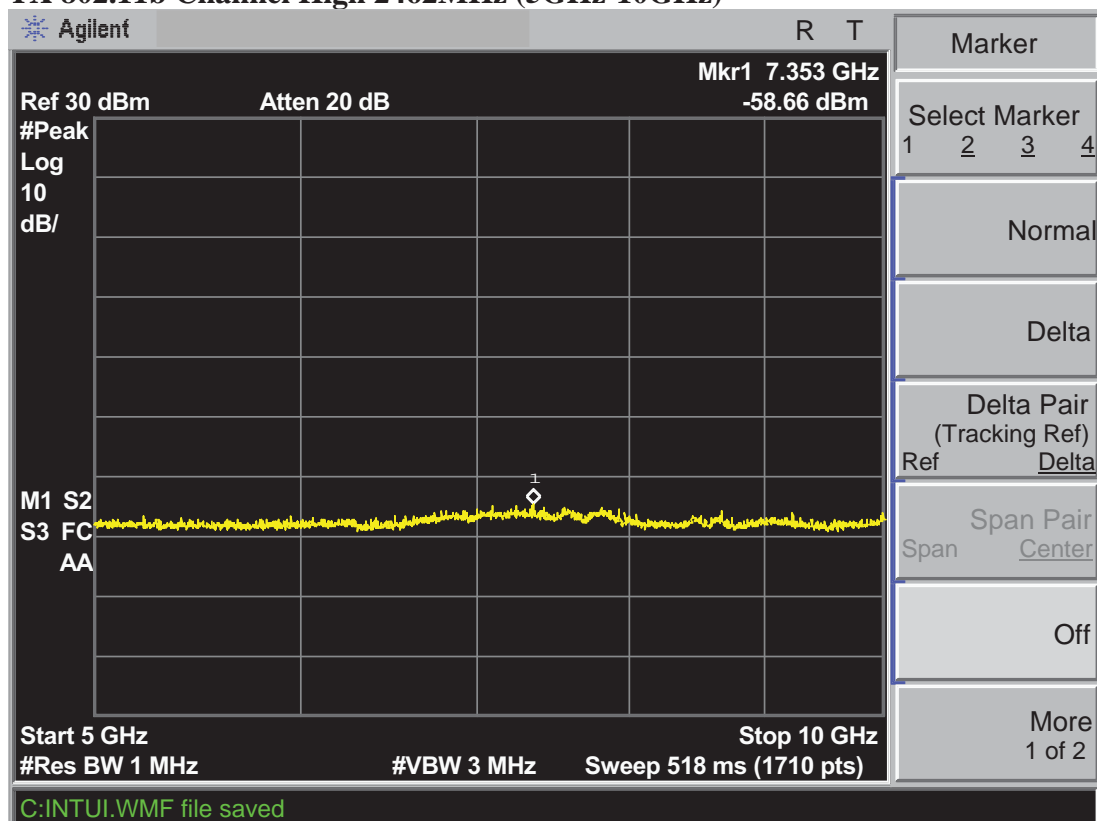
TX 802.11b Channel High 2462MHz (30MHz-1GHz)



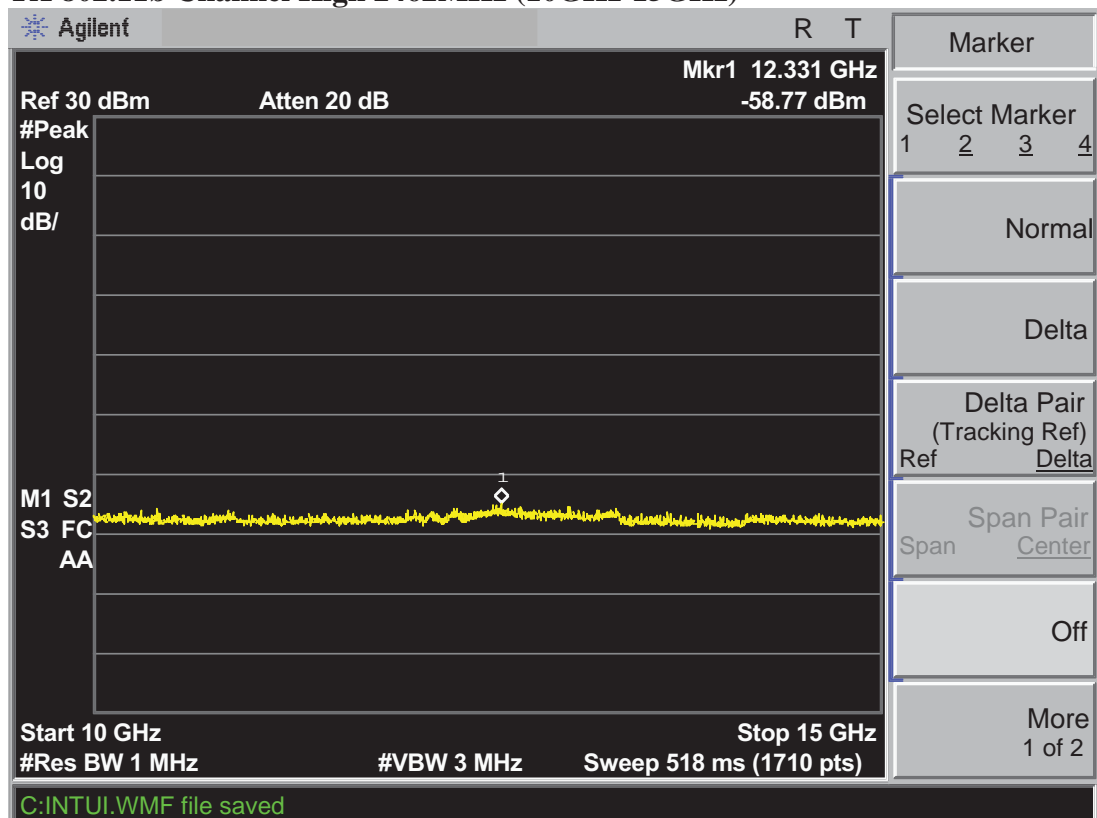
TX 802.11b Channel High 2462MHz (1GHz-5GHz)



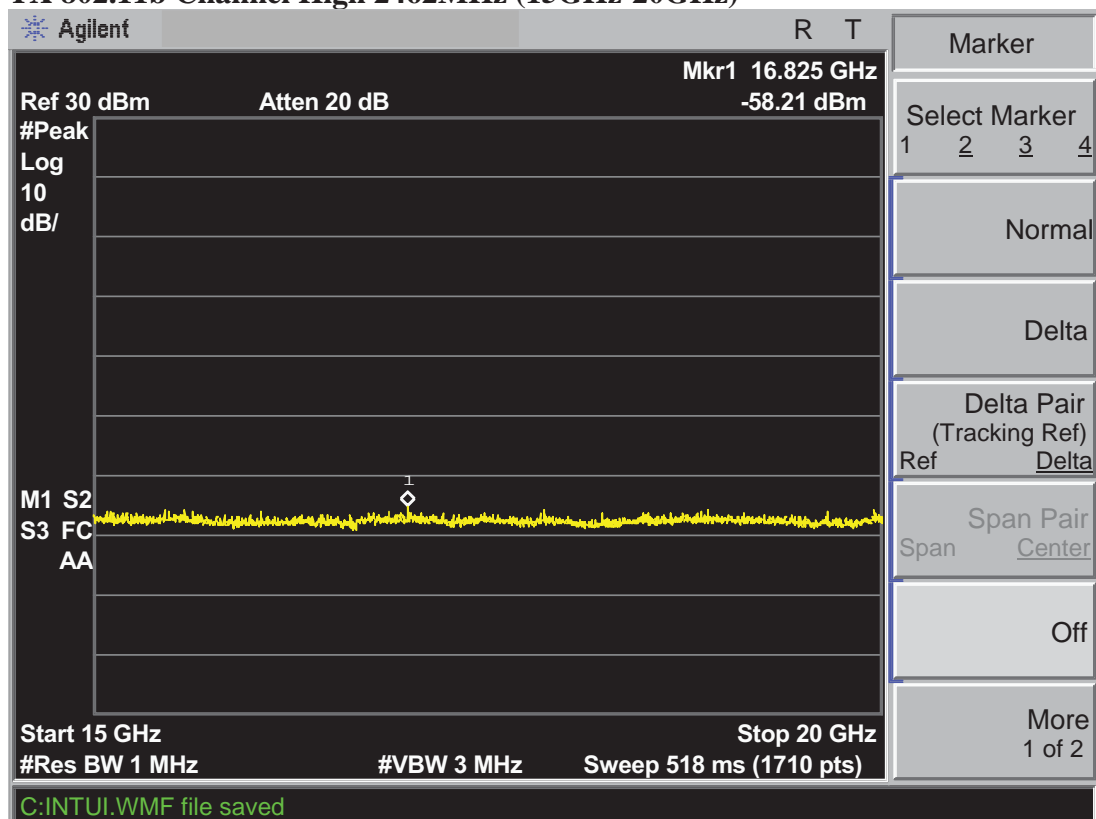
TX 802.11b Channel High 2462MHz (5GHz-10GHz)



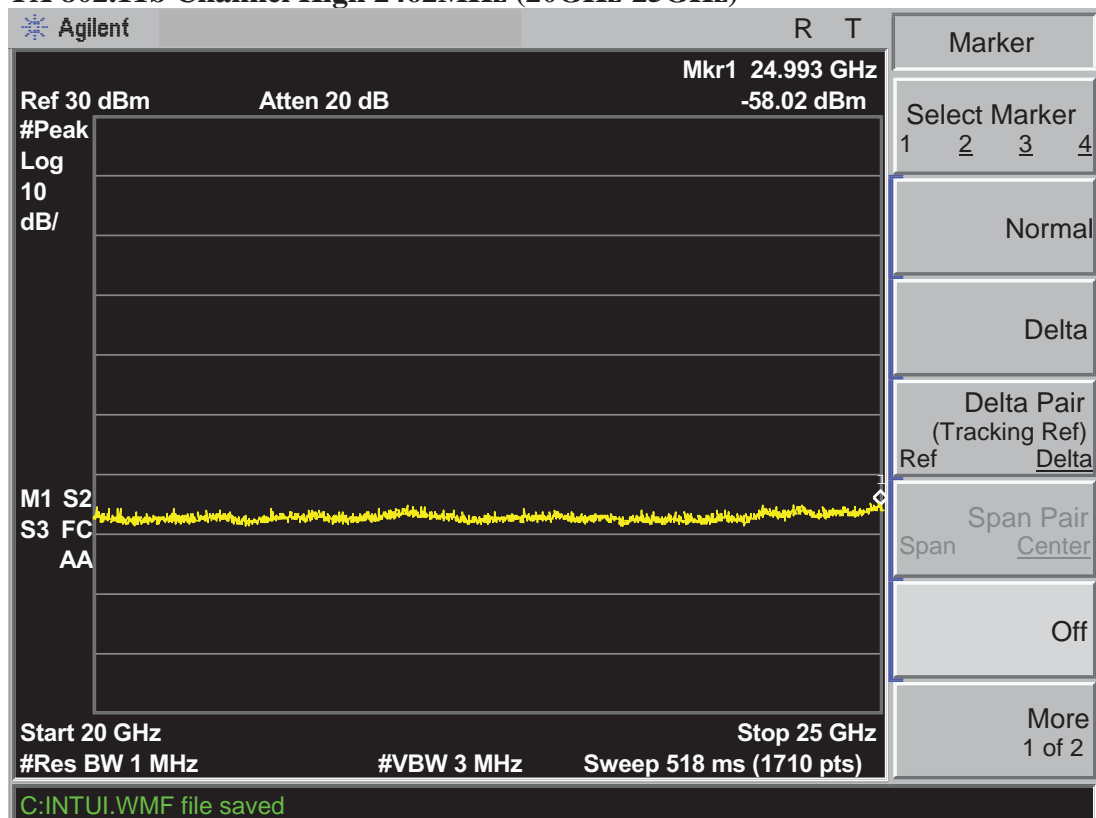
TX 802.11b Channel High 2462MHz (10GHz-15GHz)



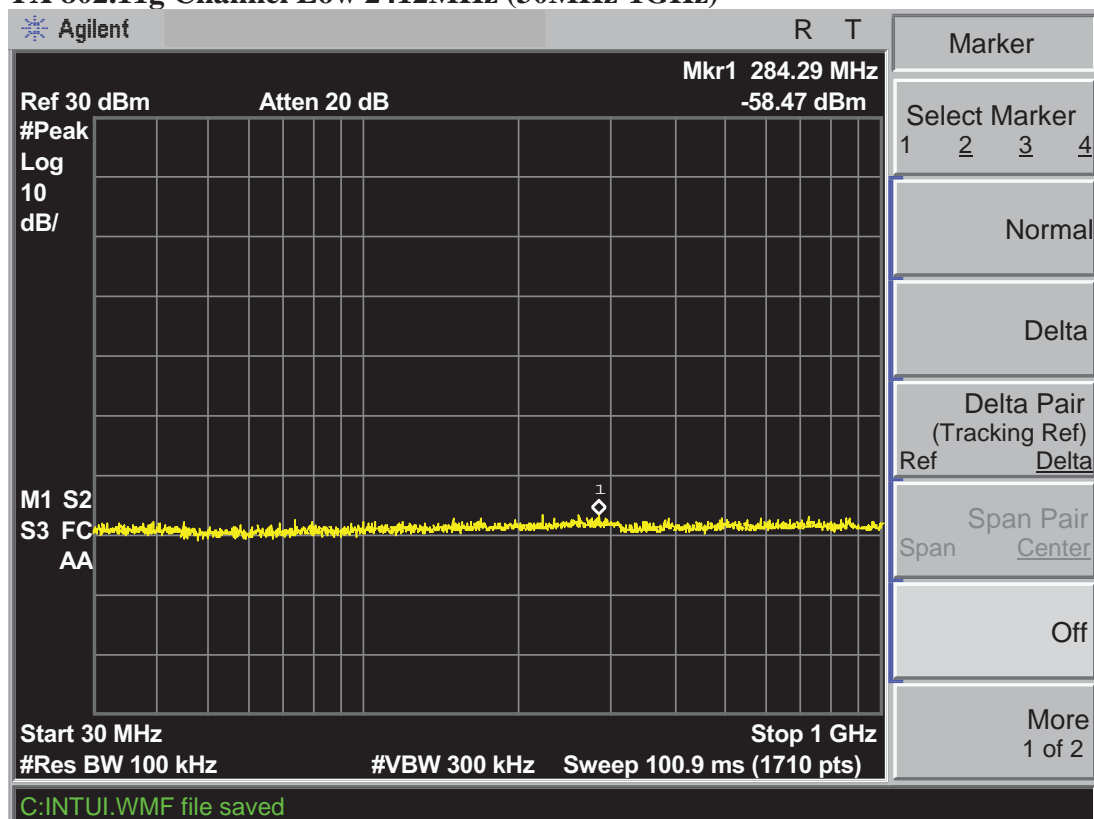
TX 802.11b Channel High 2462MHz (15GHz-20GHz)



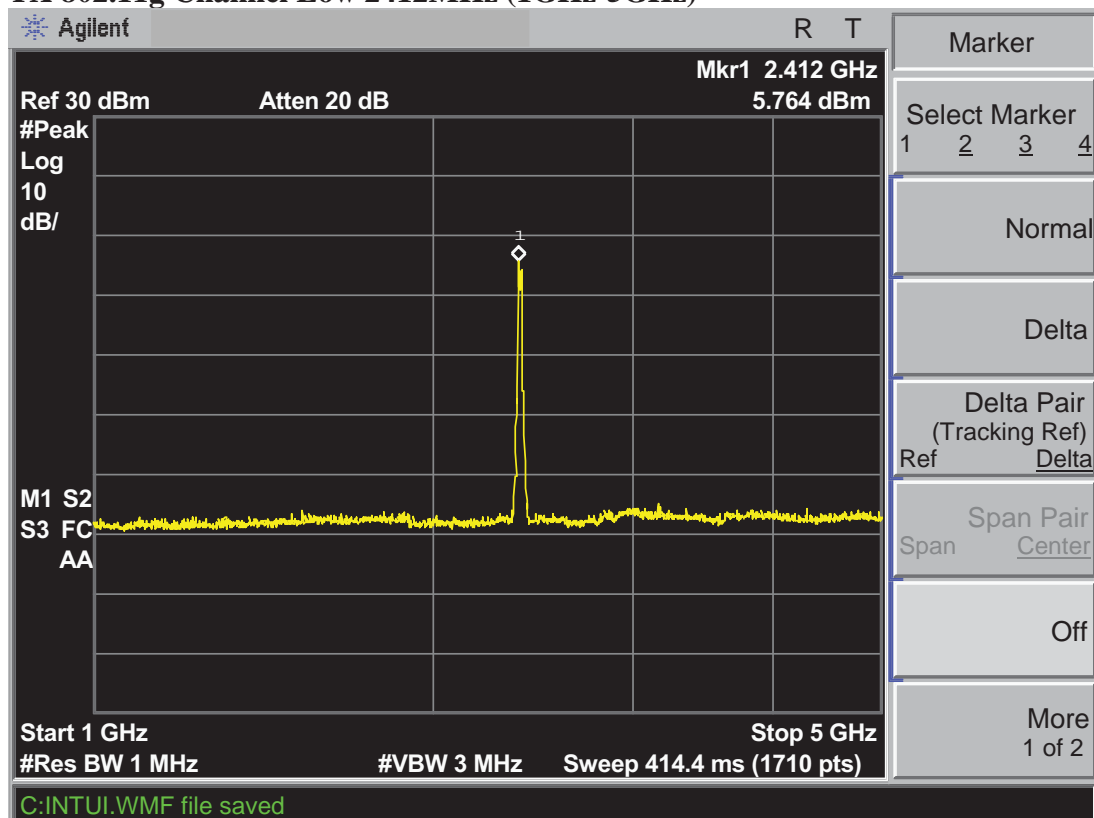
TX 802.11b Channel High 2462MHz (20GHz-25GHz)



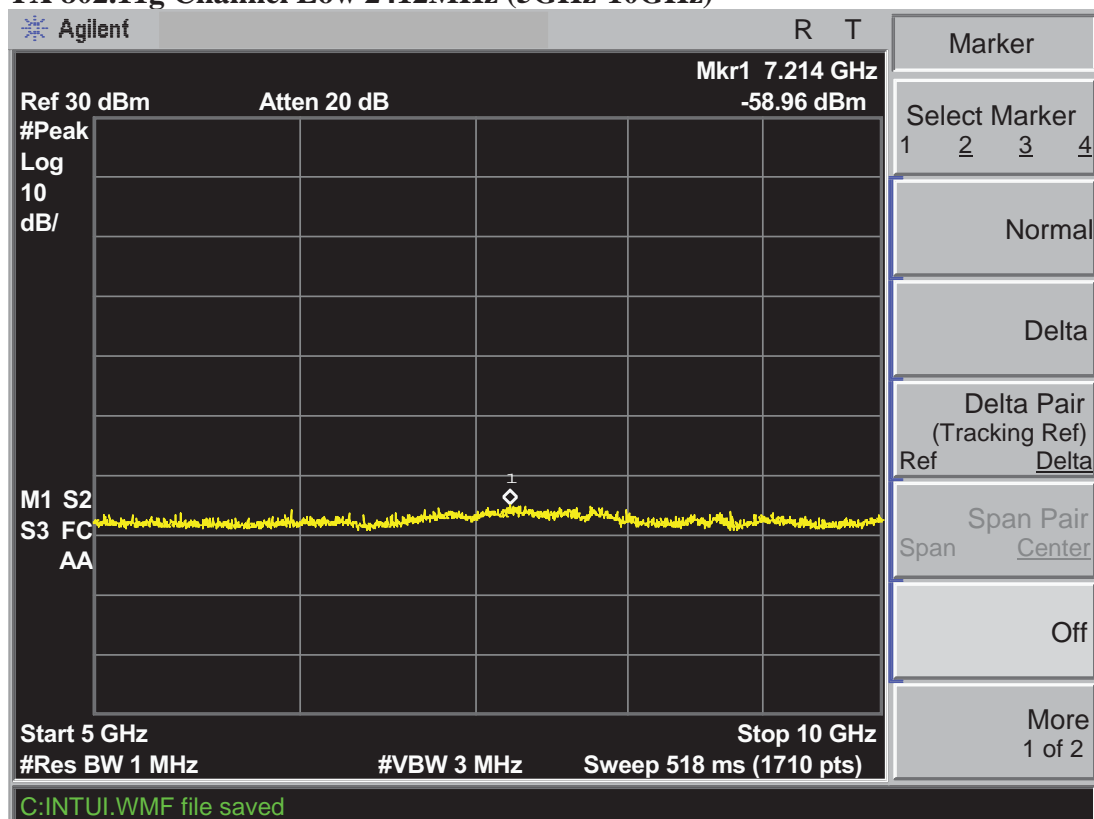
TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



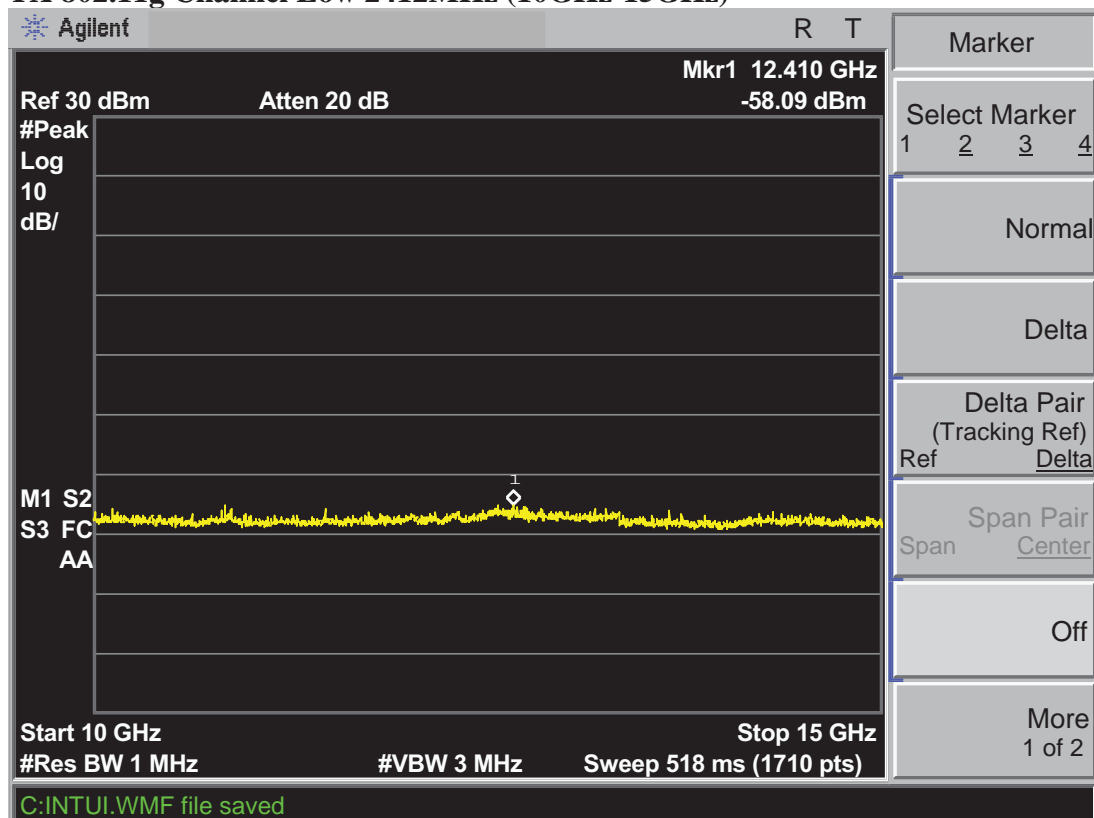
TX 802.11g Channel Low 2412MHz (1GHz-5GHz)



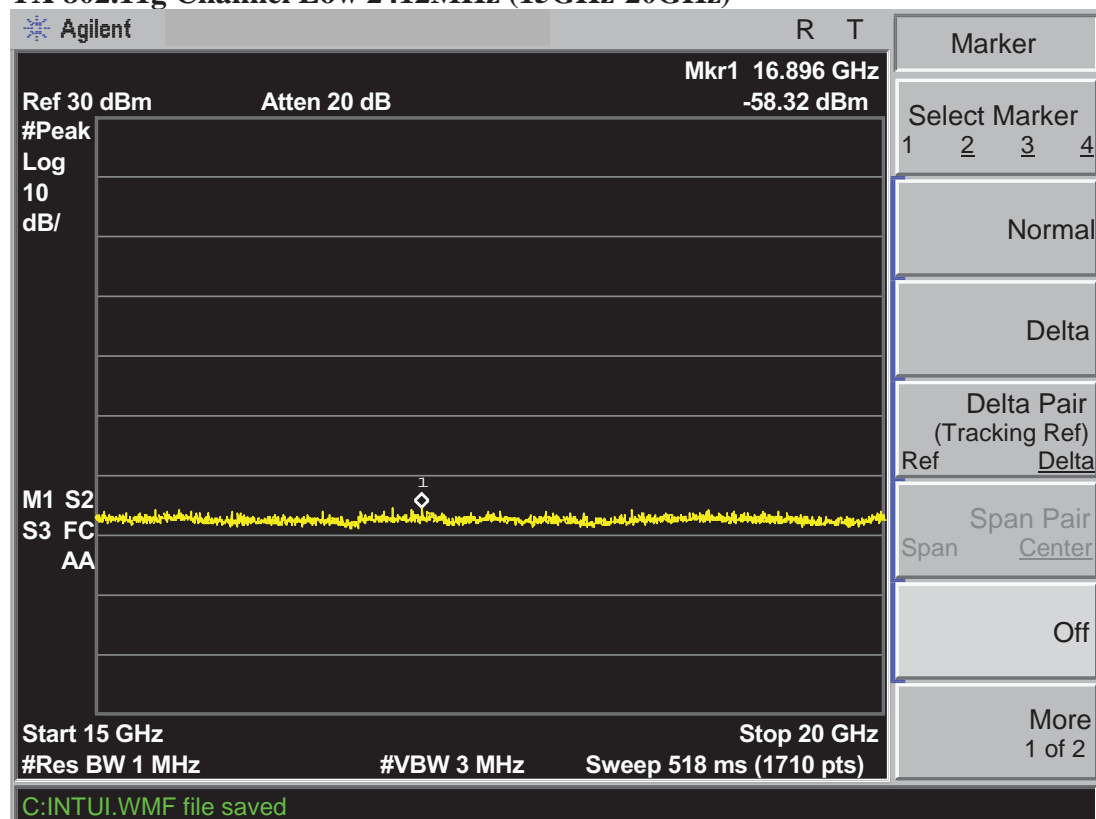
TX 802.11g Channel Low 2412MHz (5GHz-10GHz)



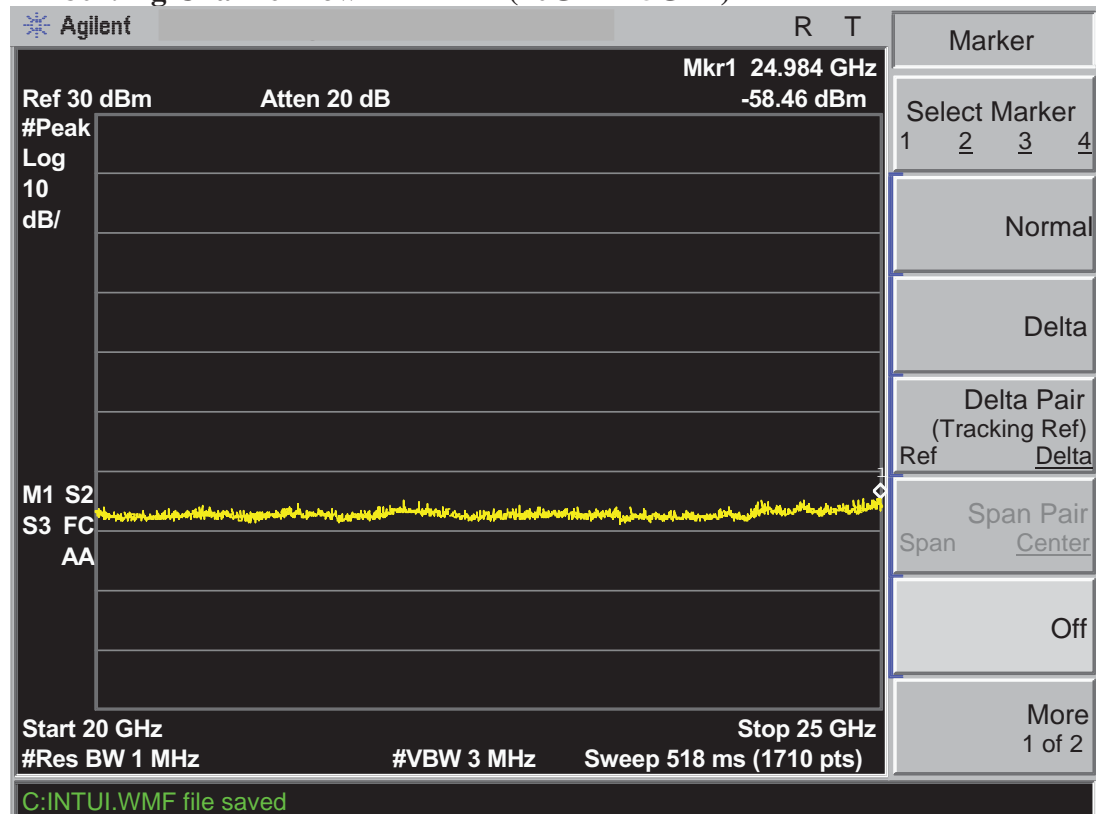
TX 802.11g Channel Low 2412MHz (10GHz-15GHz)



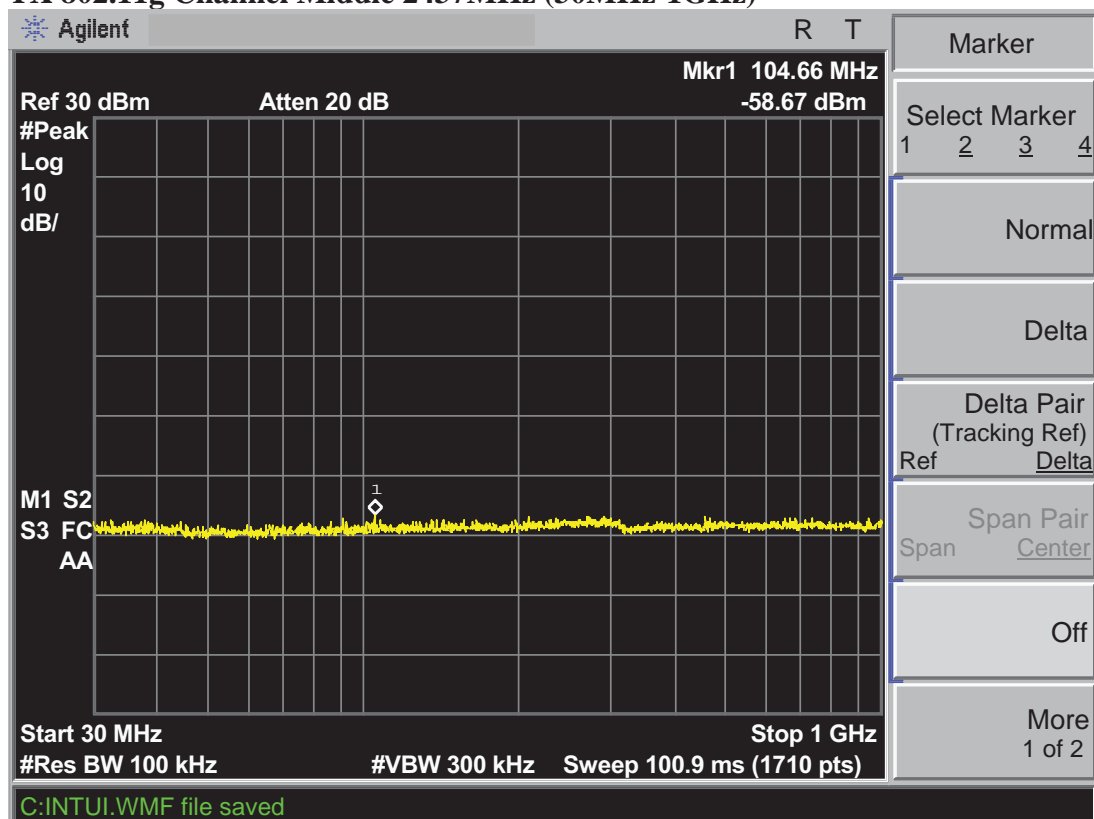
TX 802.11g Channel Low 2412MHz (15GHz-20GHz)



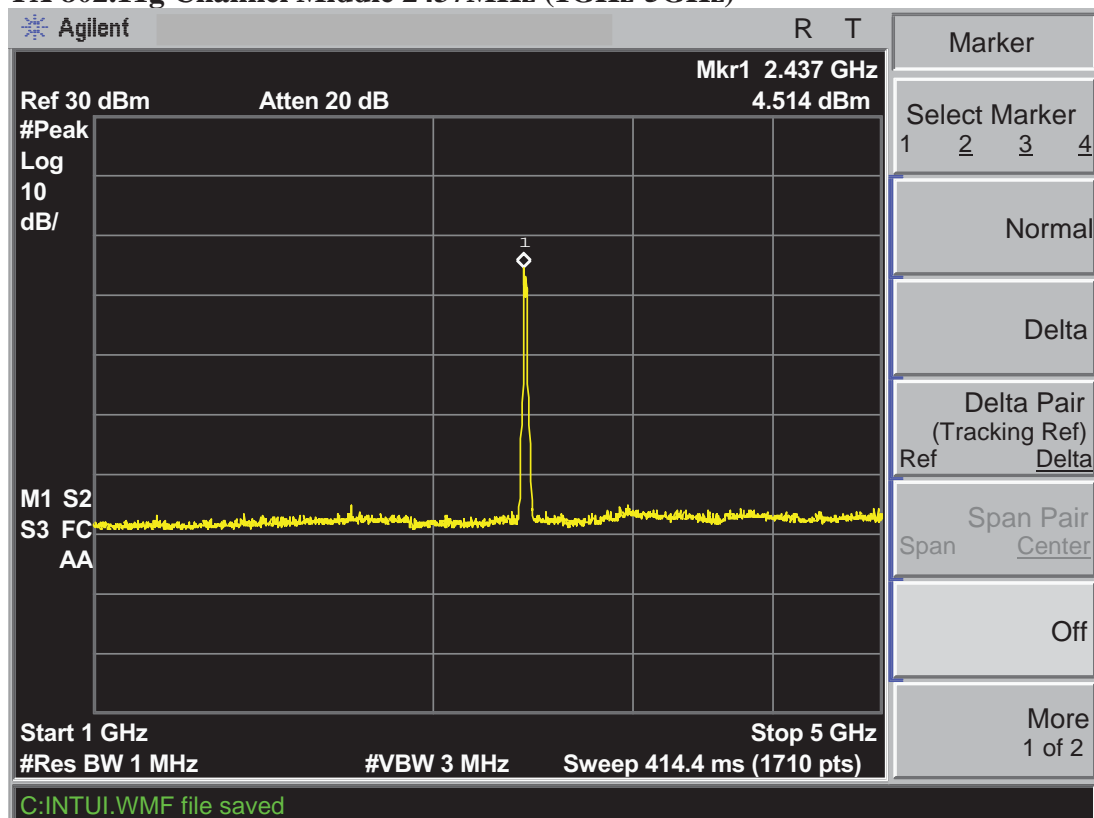
TX 802.11g Channel Low 2412MHz (20GHz-25GHz)



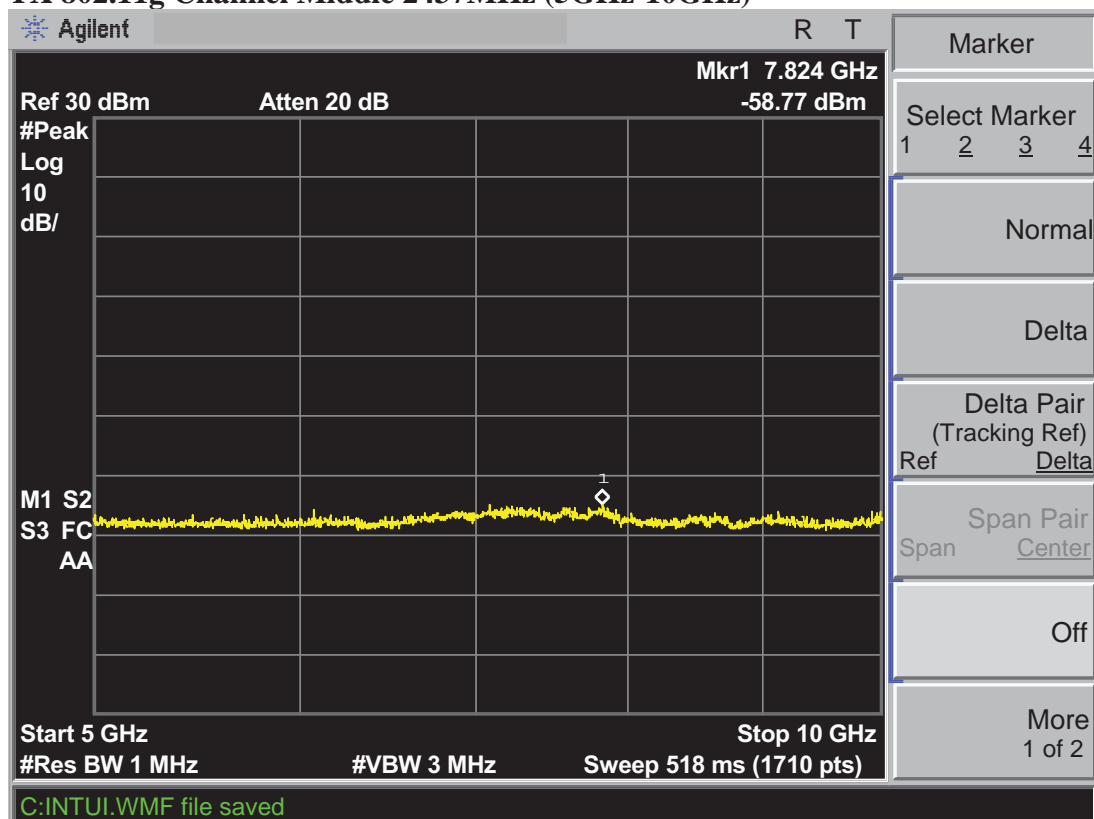
TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



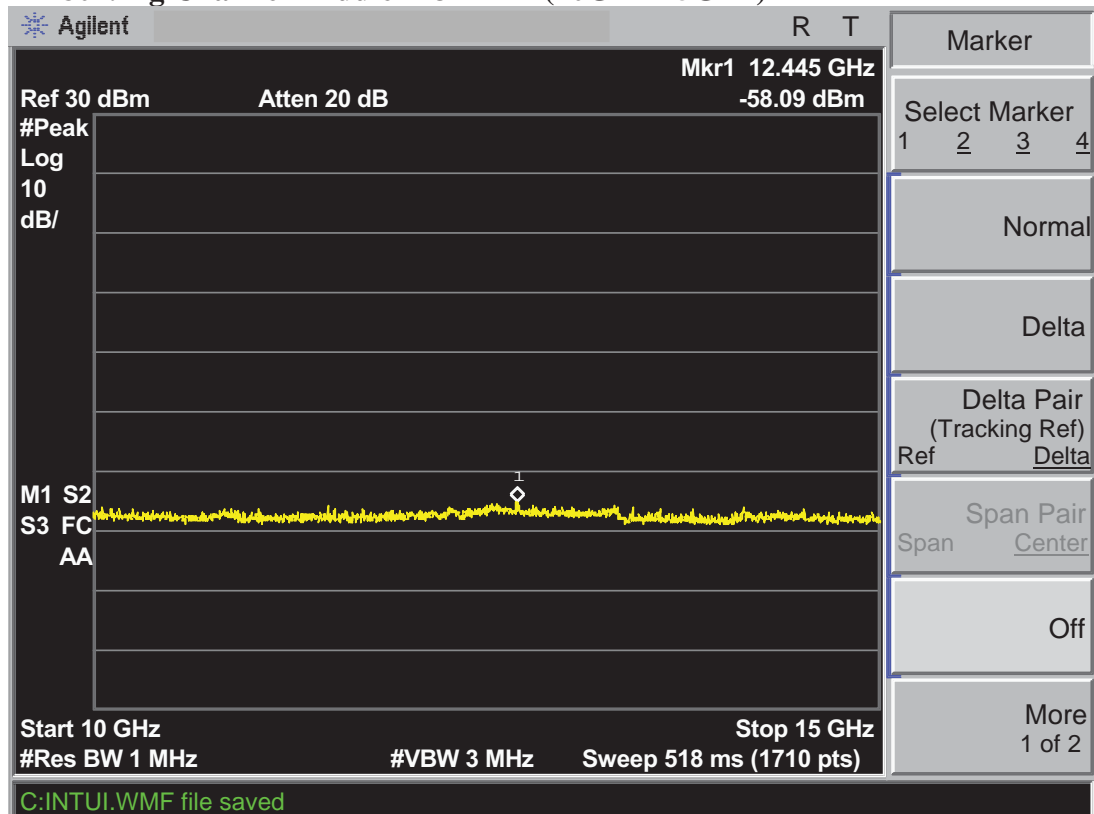
TX 802.11g Channel Middle 2437MHz (1GHz-5GHz)



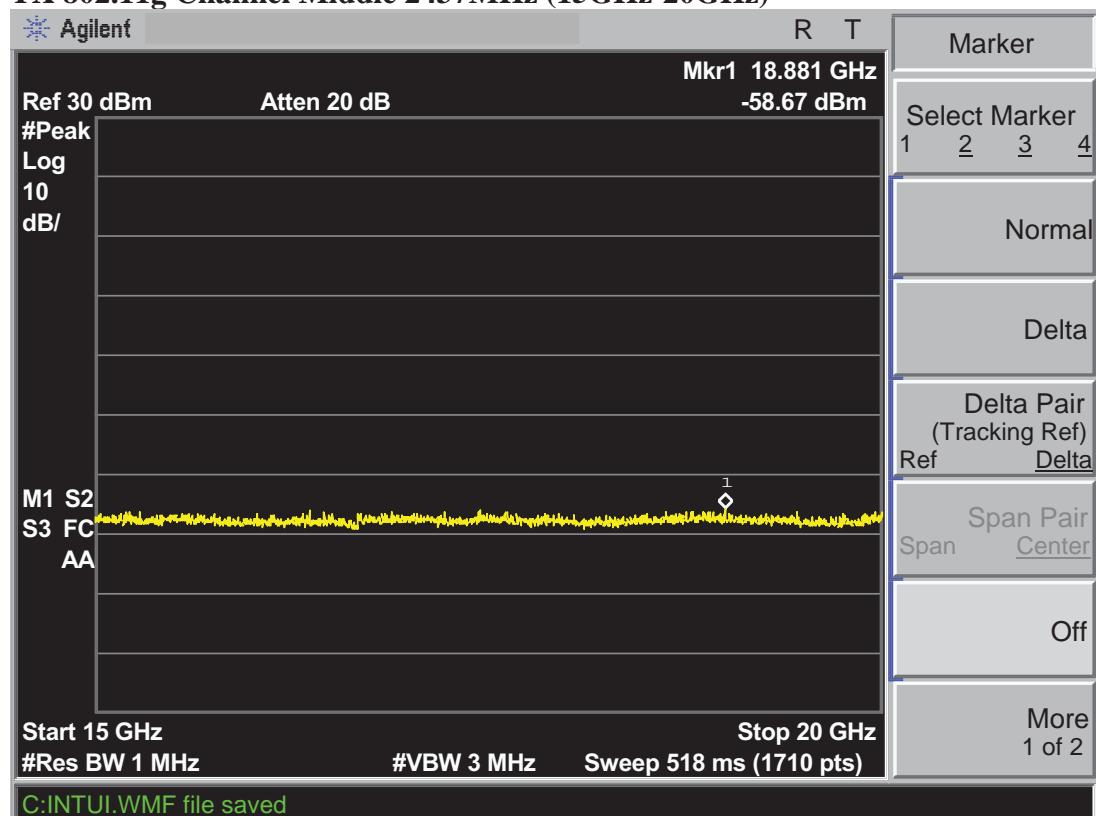
TX 802.11g Channel Middle 2437MHz (5GHz-10GHz)



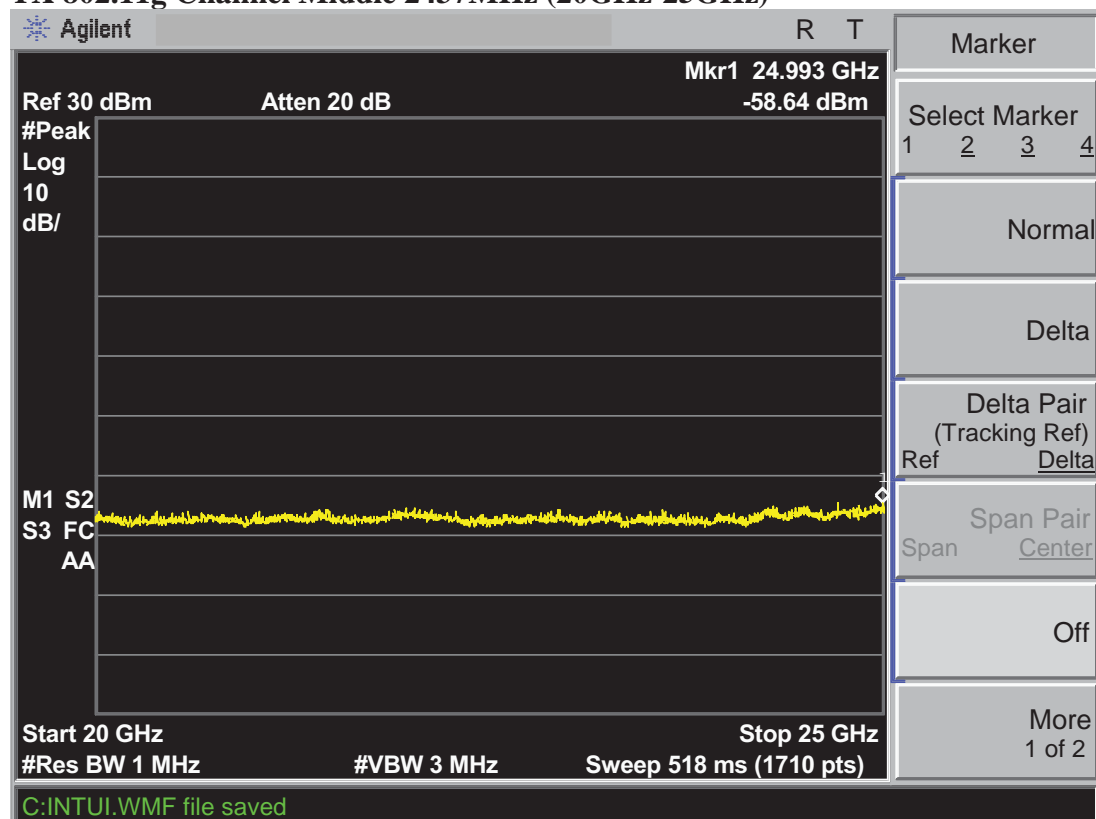
TX 802.11g Channel Middle 2437MHz (10GHz-15GHz)



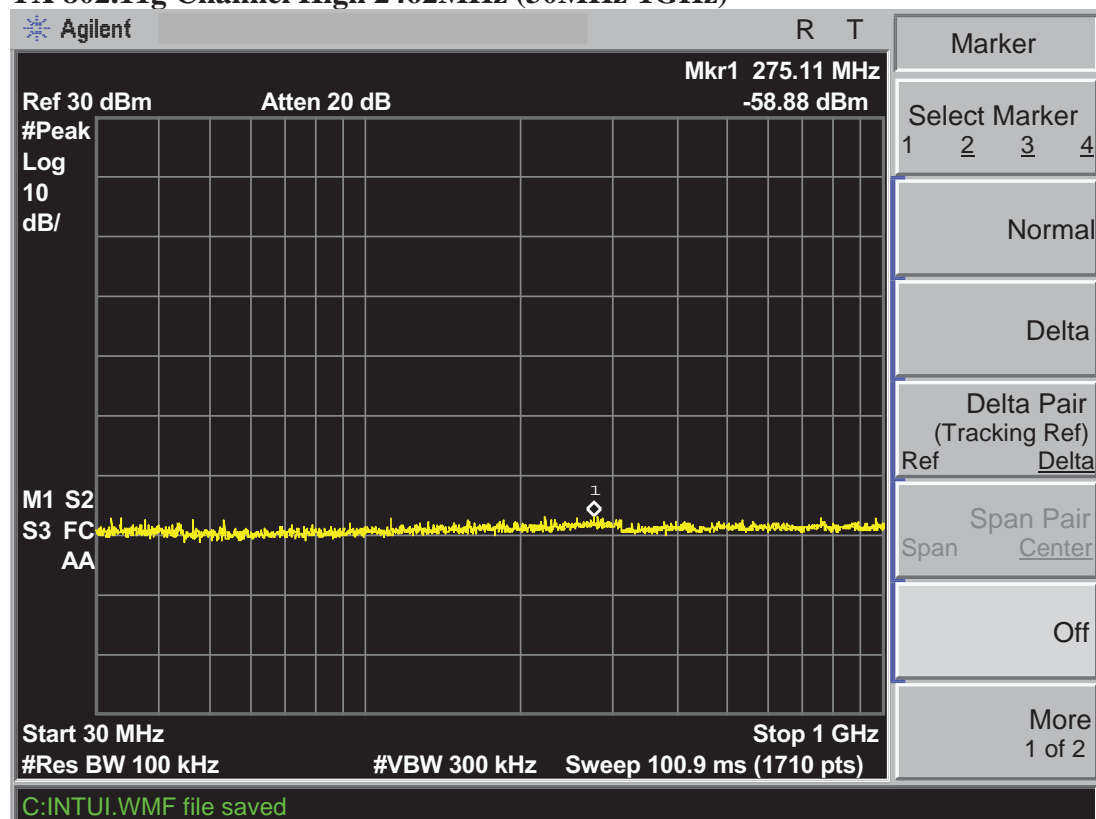
TX 802.11g Channel Middle 2437MHz (15GHz-20GHz)



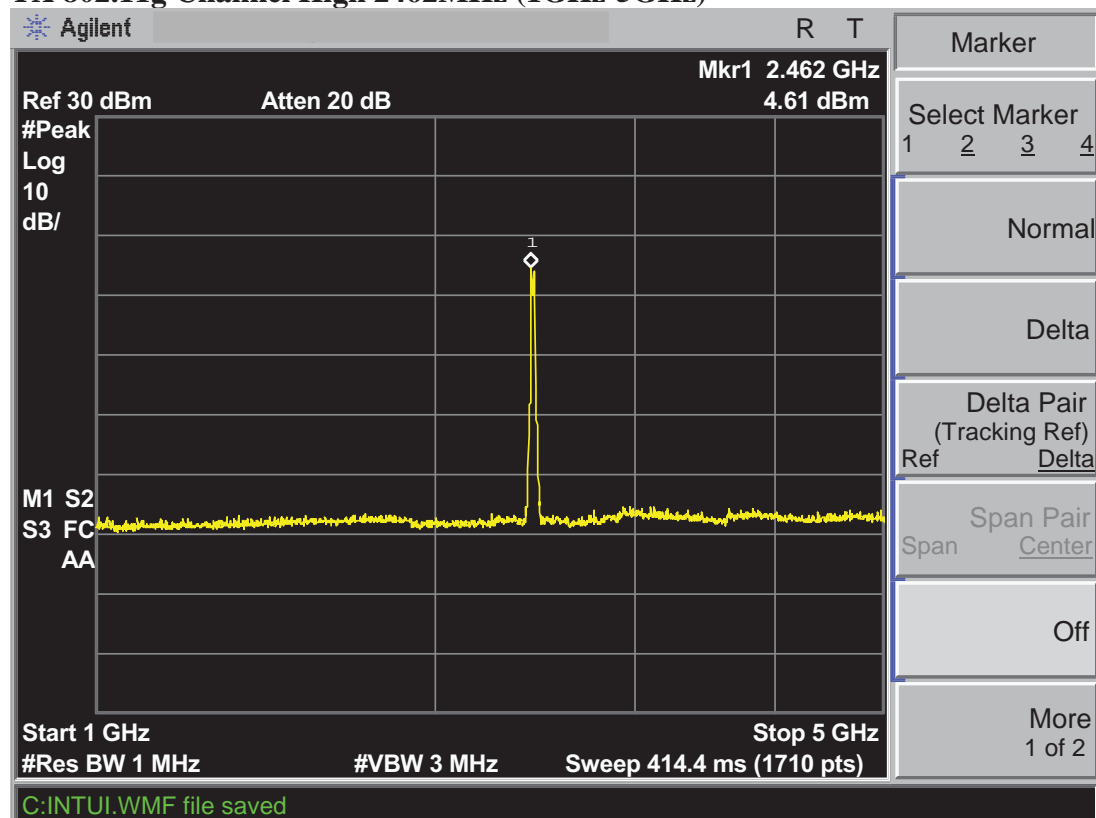
TX 802.11g Channel Middle 2437MHz (20GHz-25GHz)



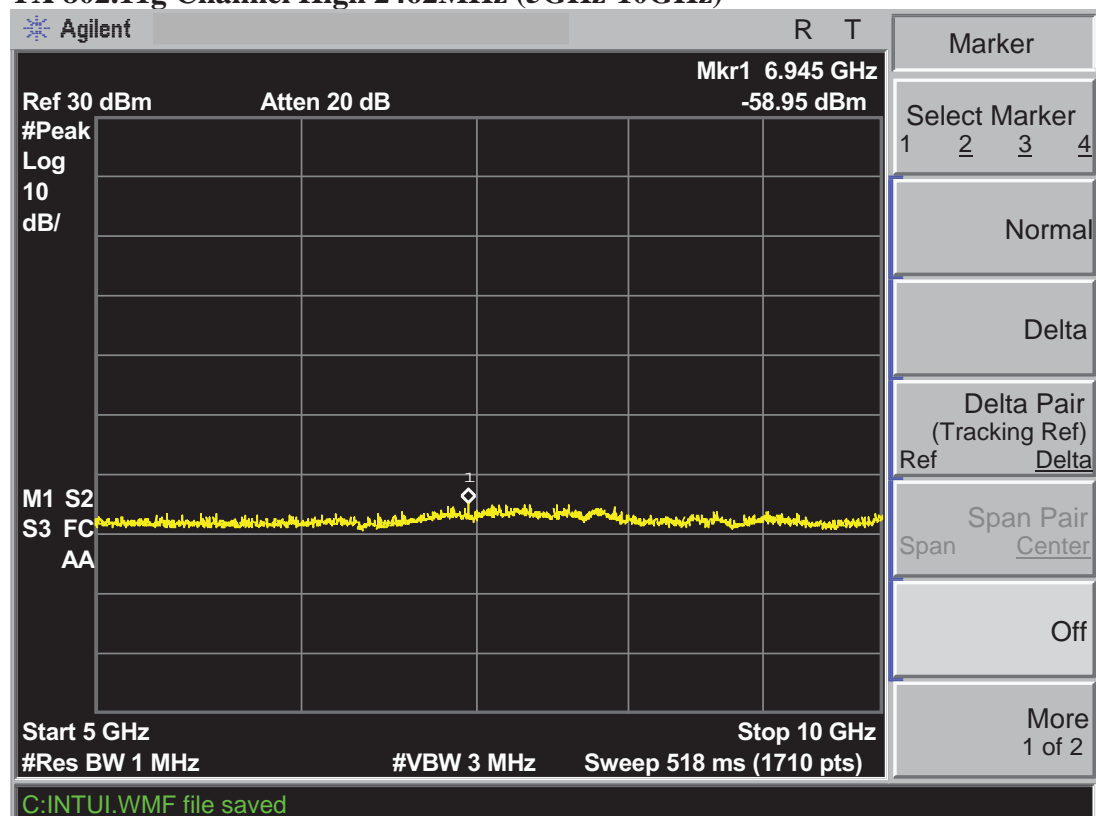
TX 802.11g Channel High 2462MHz (30MHz-1GHz)



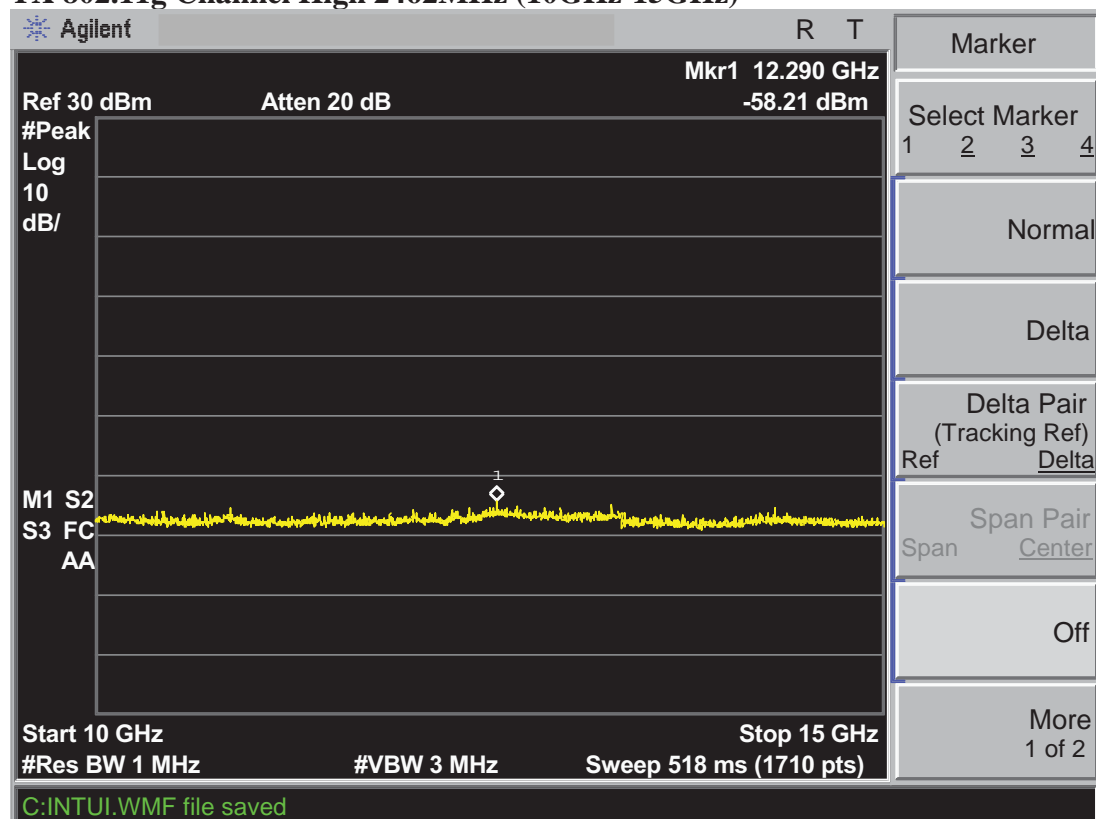
TX 802.11g Channel High 2462MHz (1GHz-5GHz)



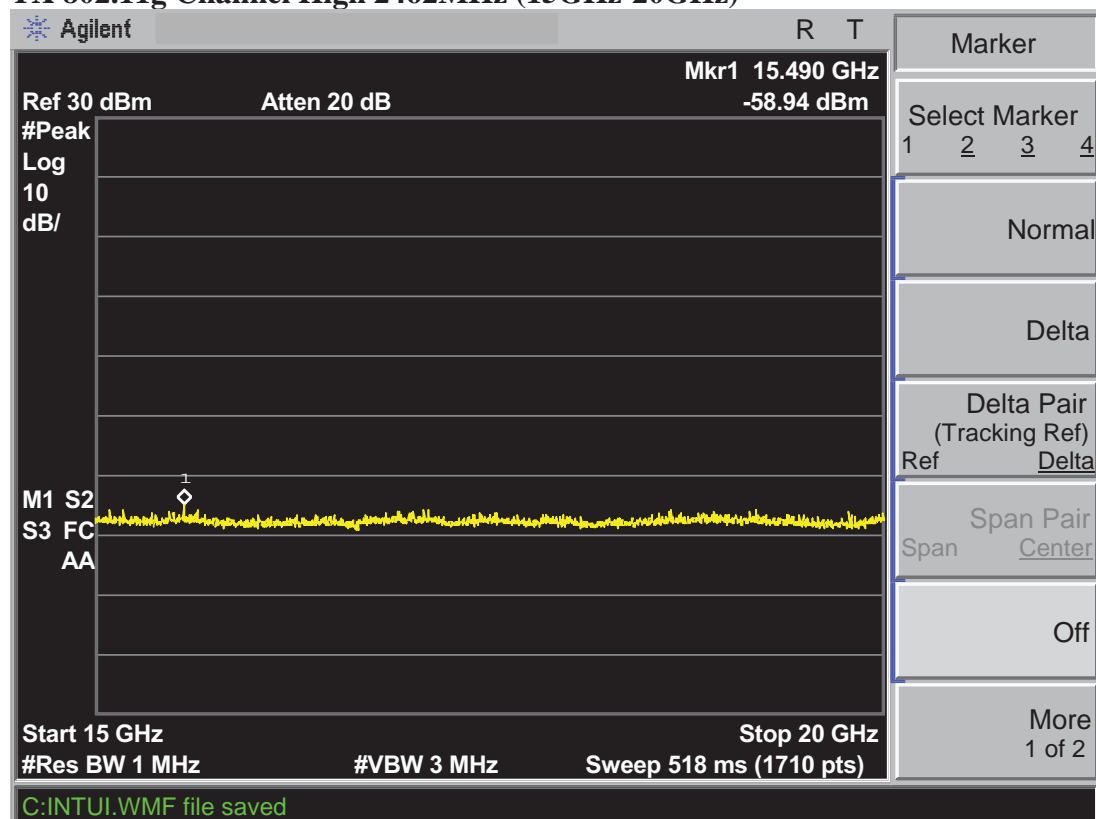
TX 802.11g Channel High 2462MHz (5GHz-10GHz)



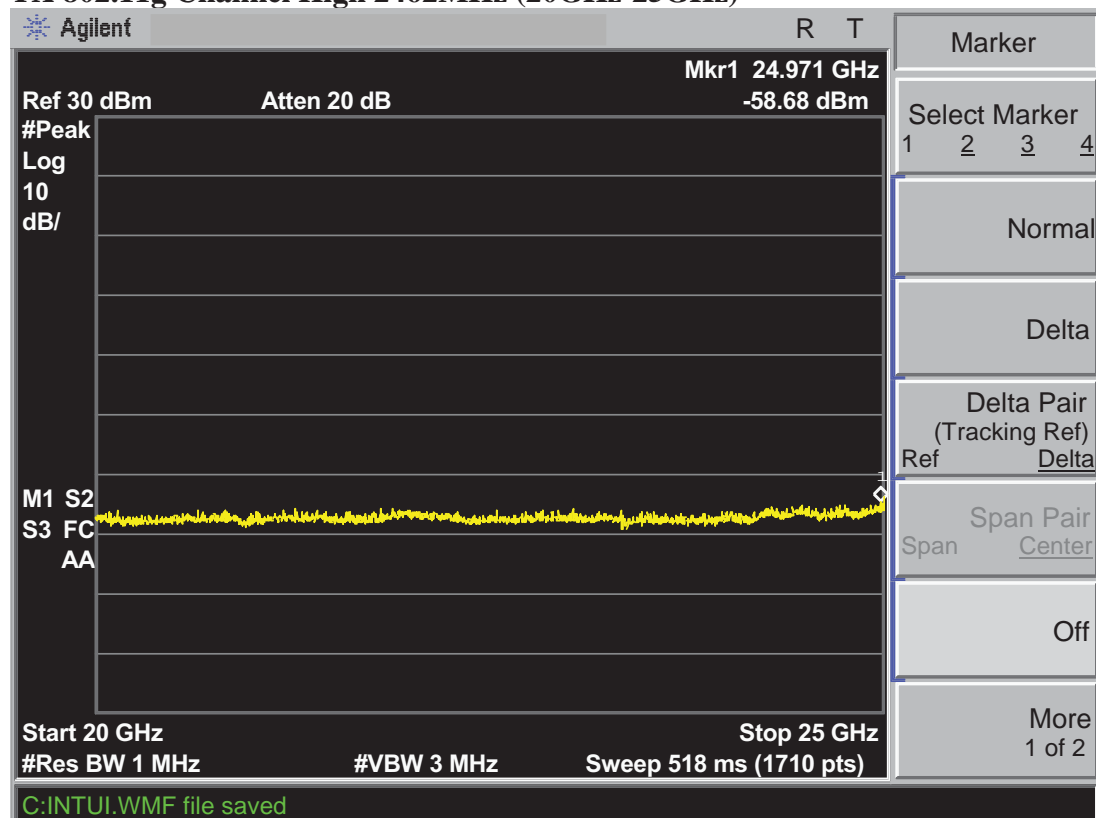
TX 802.11g Channel High 2462MHz (10GHz-15GHz)

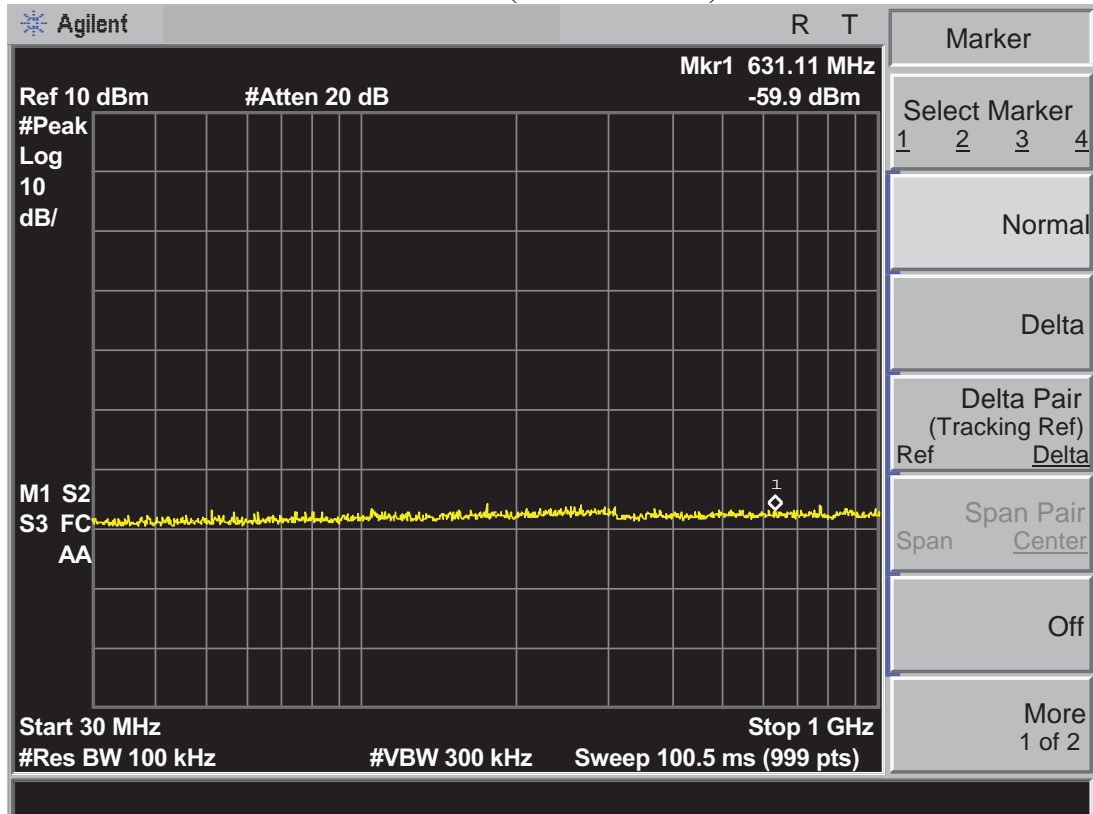
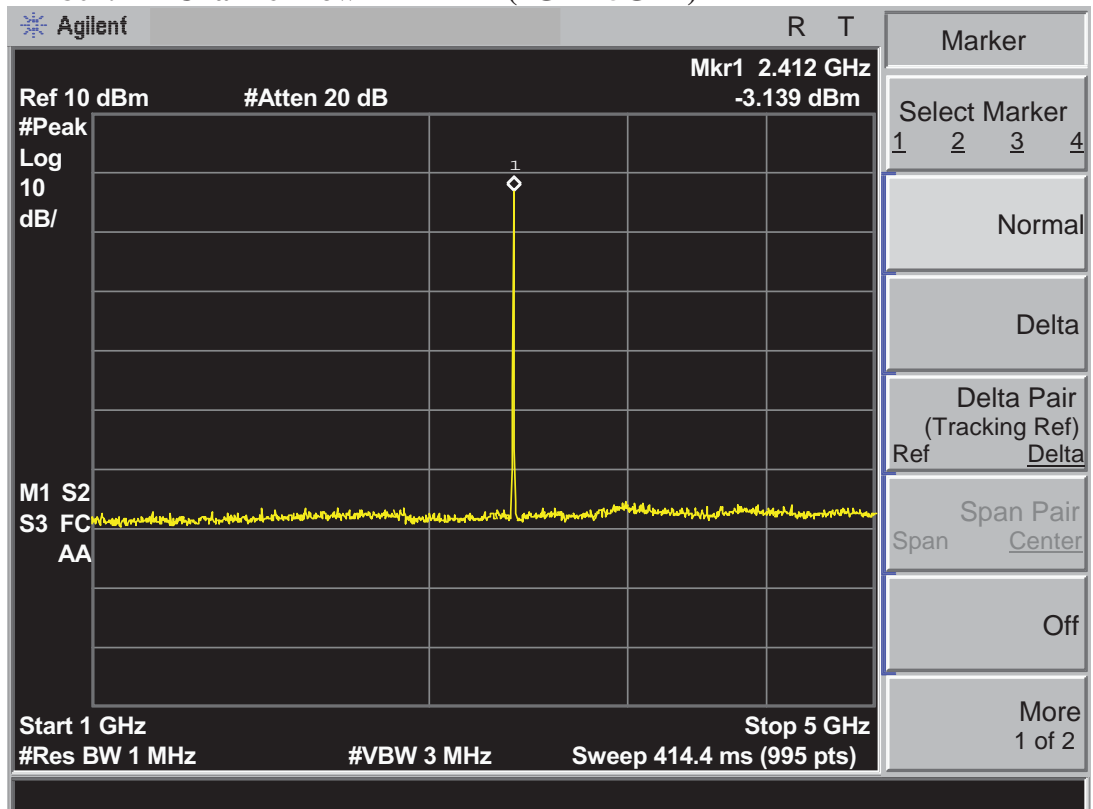


TX 802.11g Channel High 2462MHz (15GHz-20GHz)

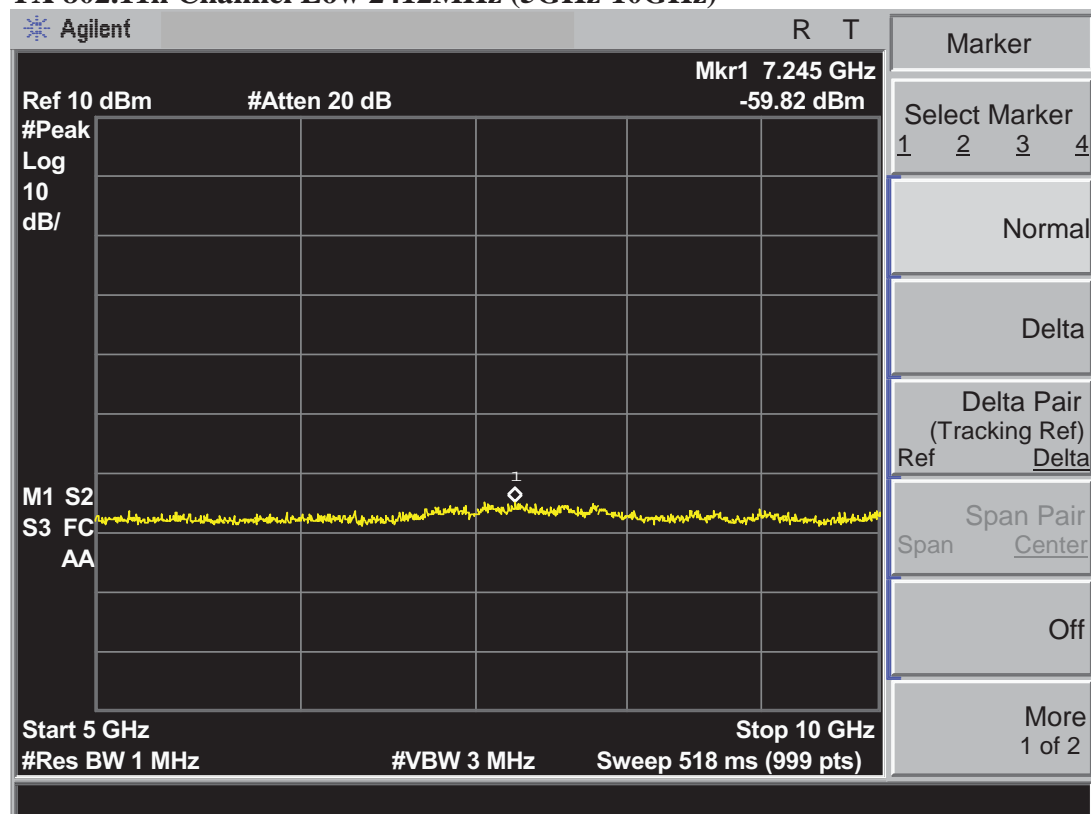


TX 802.11g Channel High 2462MHz (20GHz-25GHz)

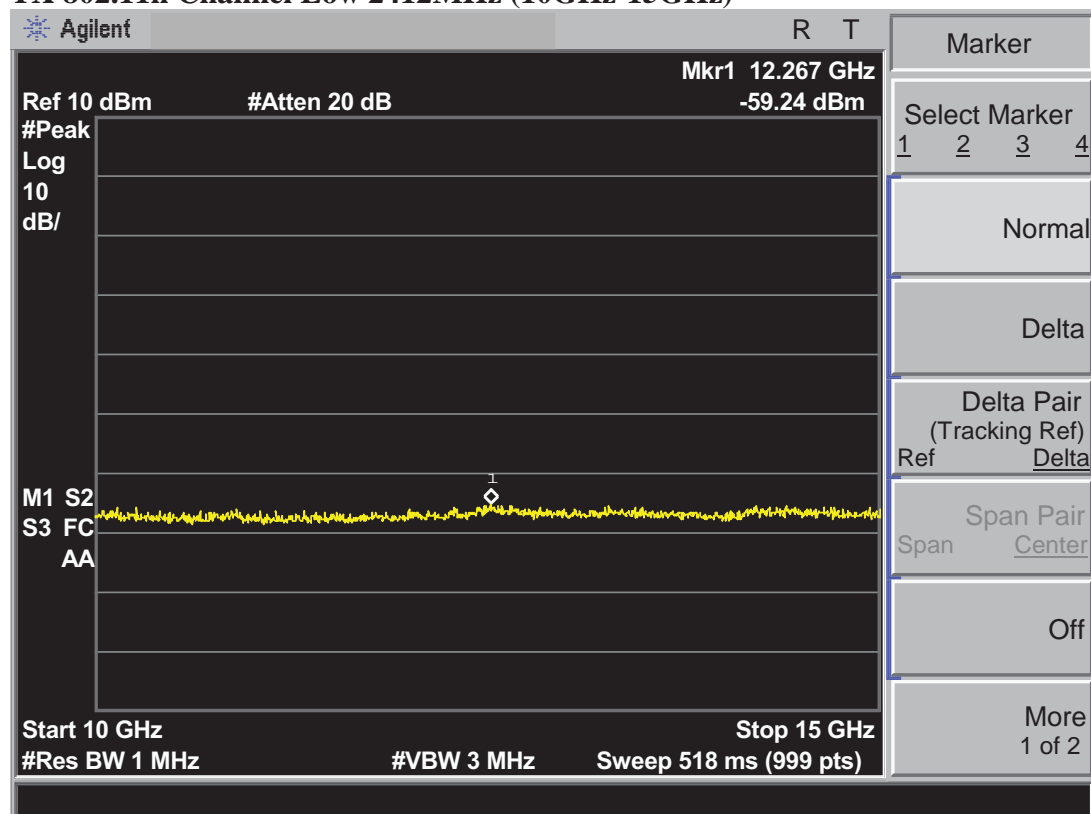


TX 802.11n Channel Low 2412MHz (30MHz-1GHz)**TX 802.11n Channel Low 2412MHz (1GHz-5GHz)**

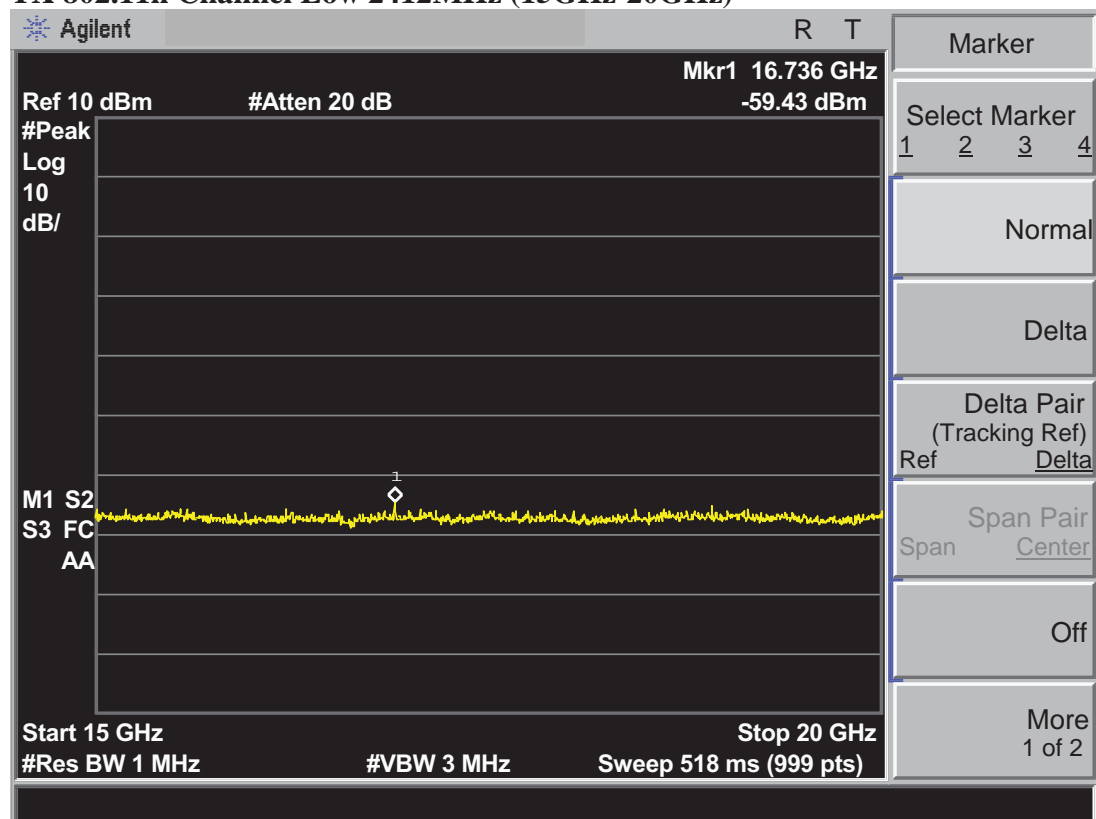
TX 802.11n Channel Low 2412MHz (5GHz-10GHz)



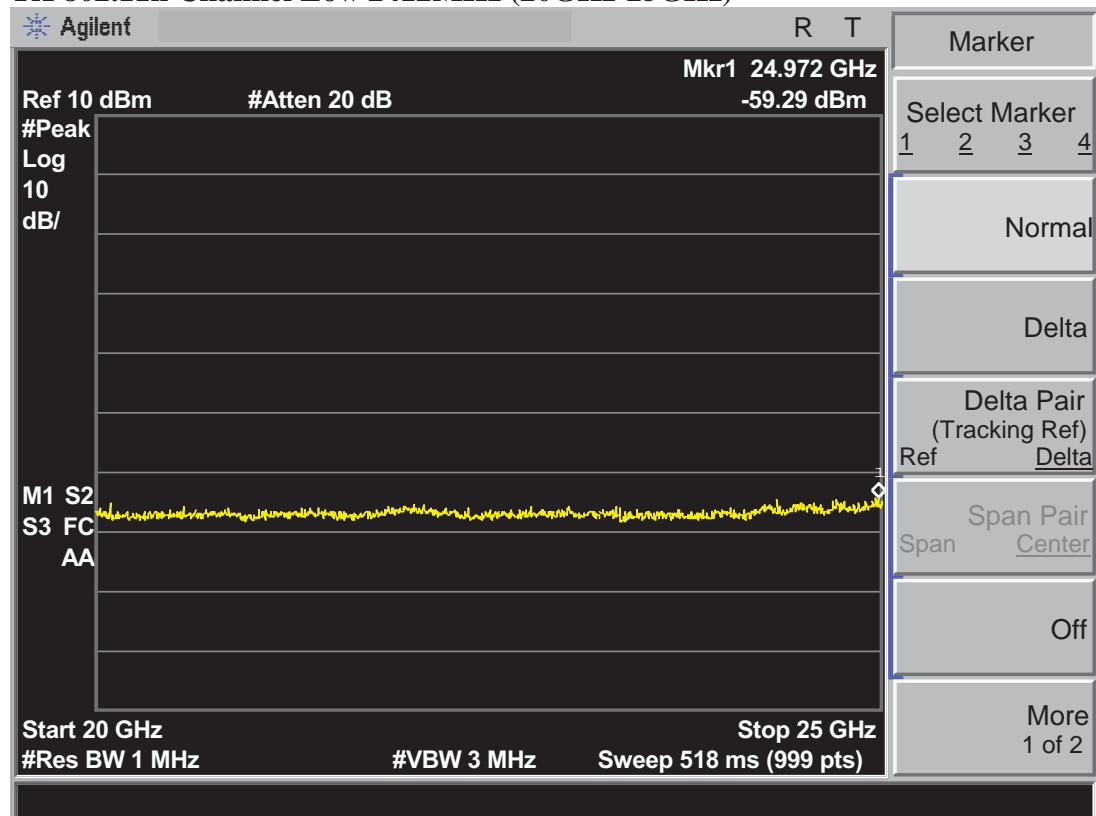
TX 802.11n Channel Low 2412MHz (10GHz-15GHz)



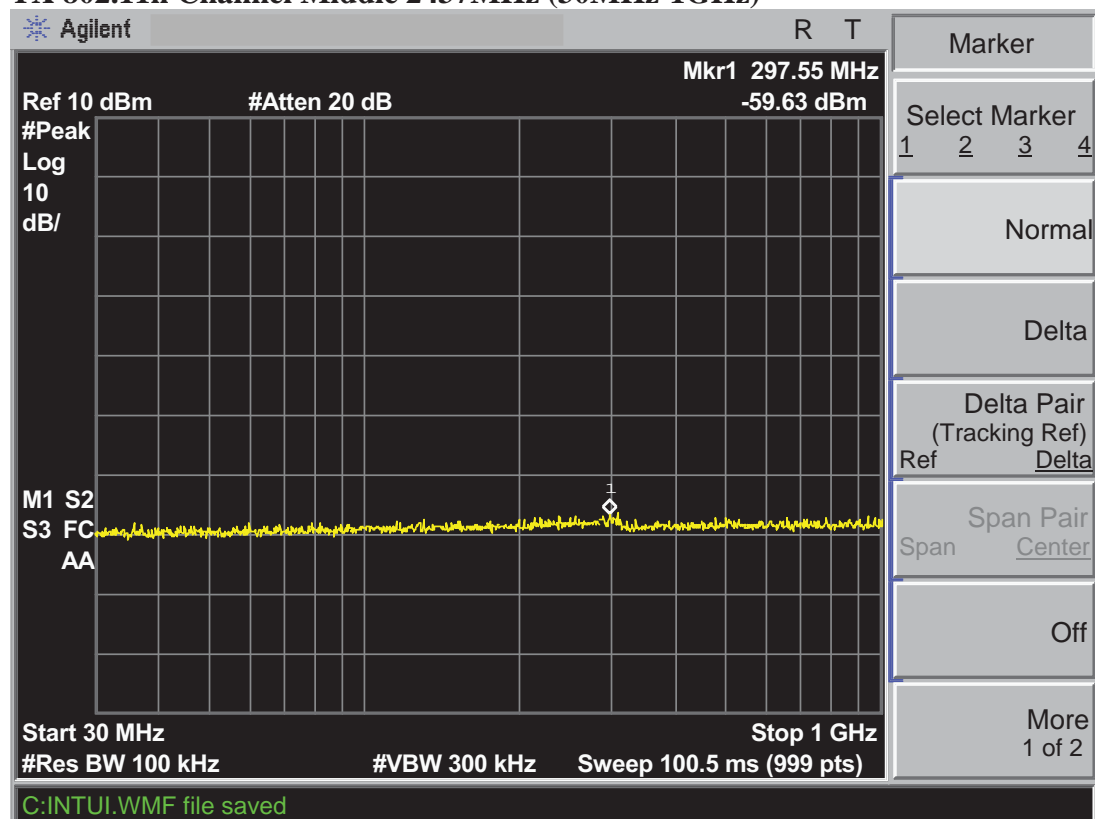
TX 802.11n Channel Low 2412MHz (15GHz-20GHz)



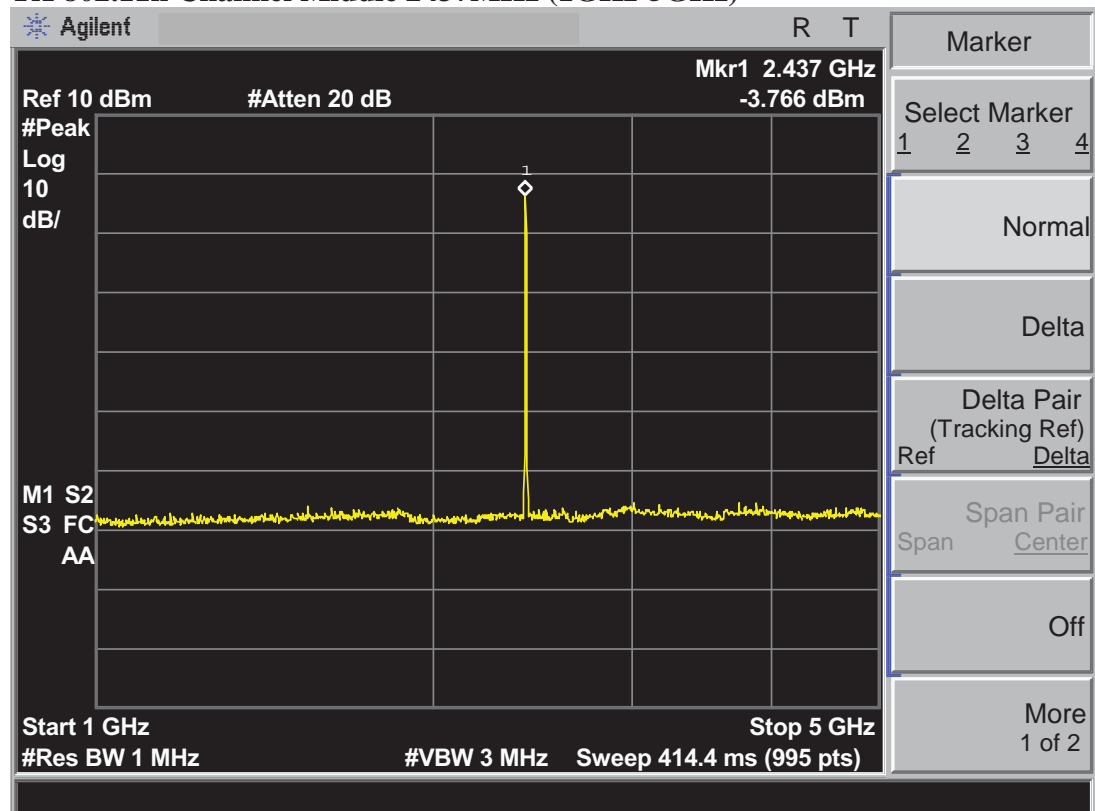
TX 802.11n Channel Low 2412MHz (20GHz-25GHz)



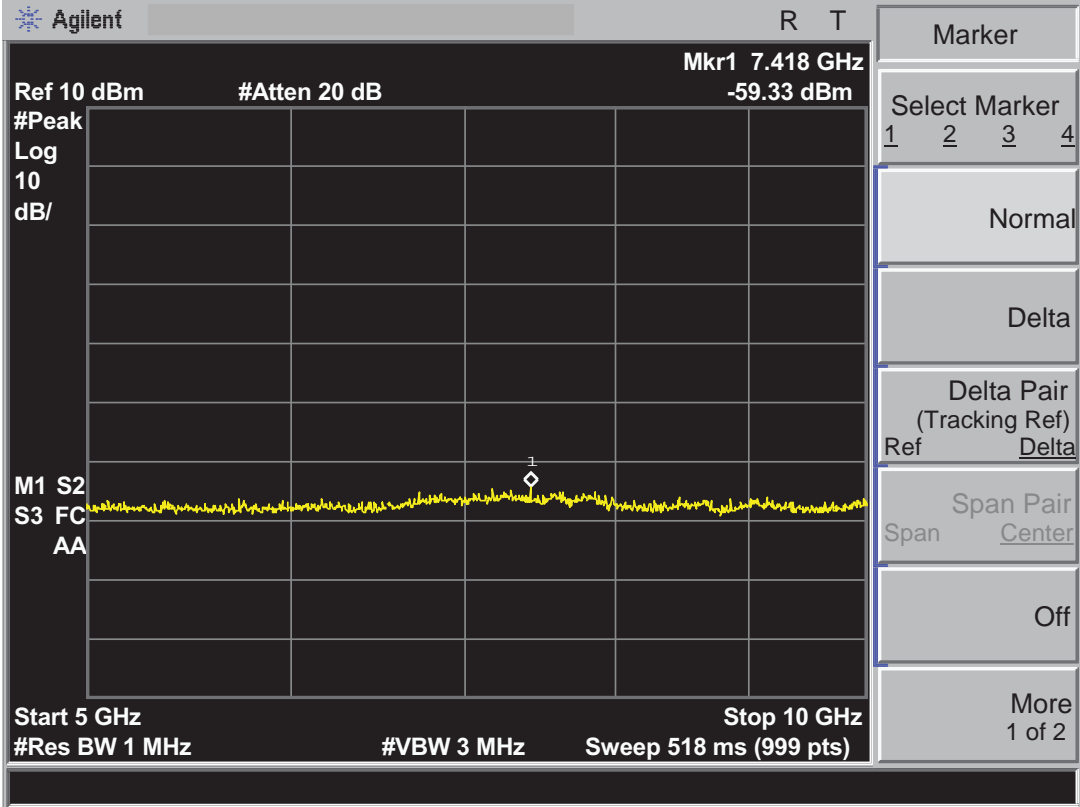
TX 802.11n Channel Middle 2437MHz (30MHz-1GHz)



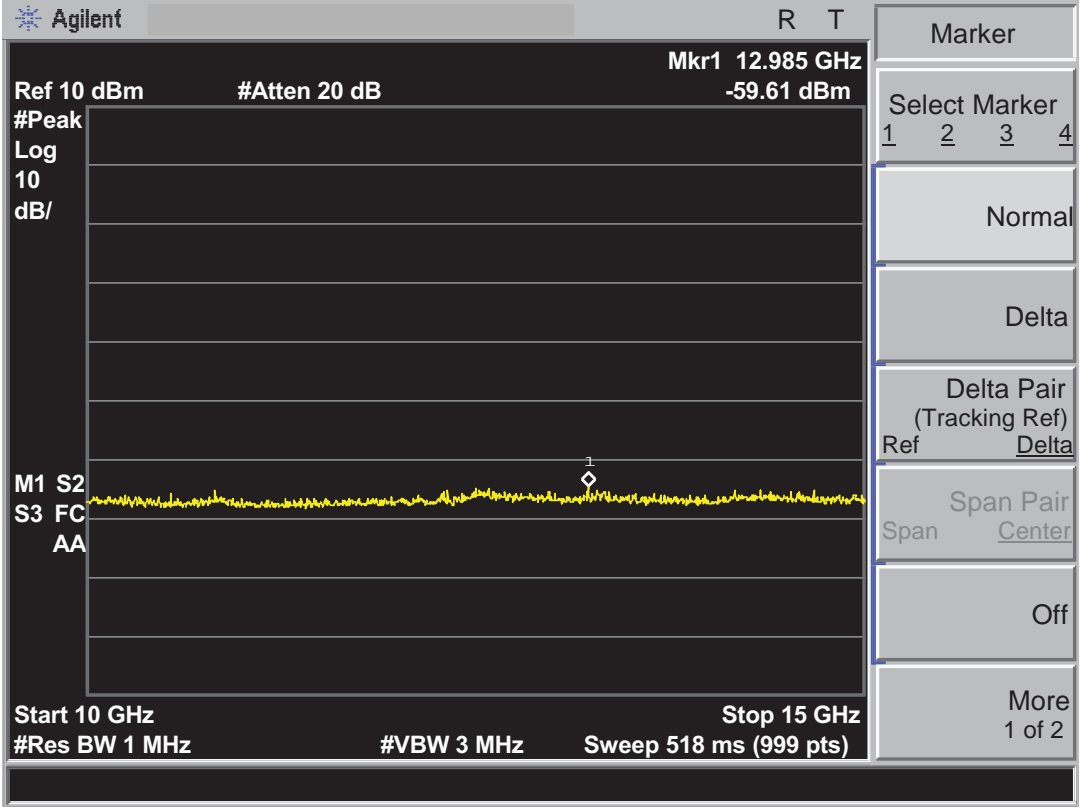
TX 802.11n Channel Middle 2437MHz (1GHz-5GHz)



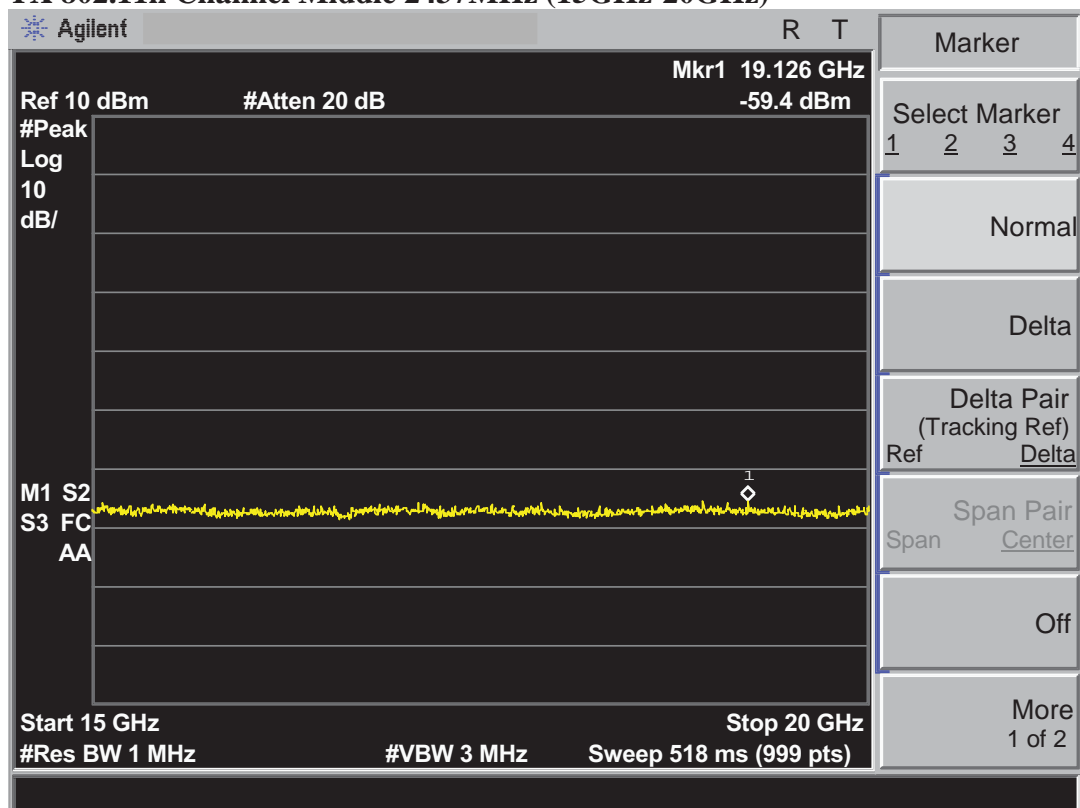
TX 802.11n Channel Middle 2437MHz (5GHz-10GHz)



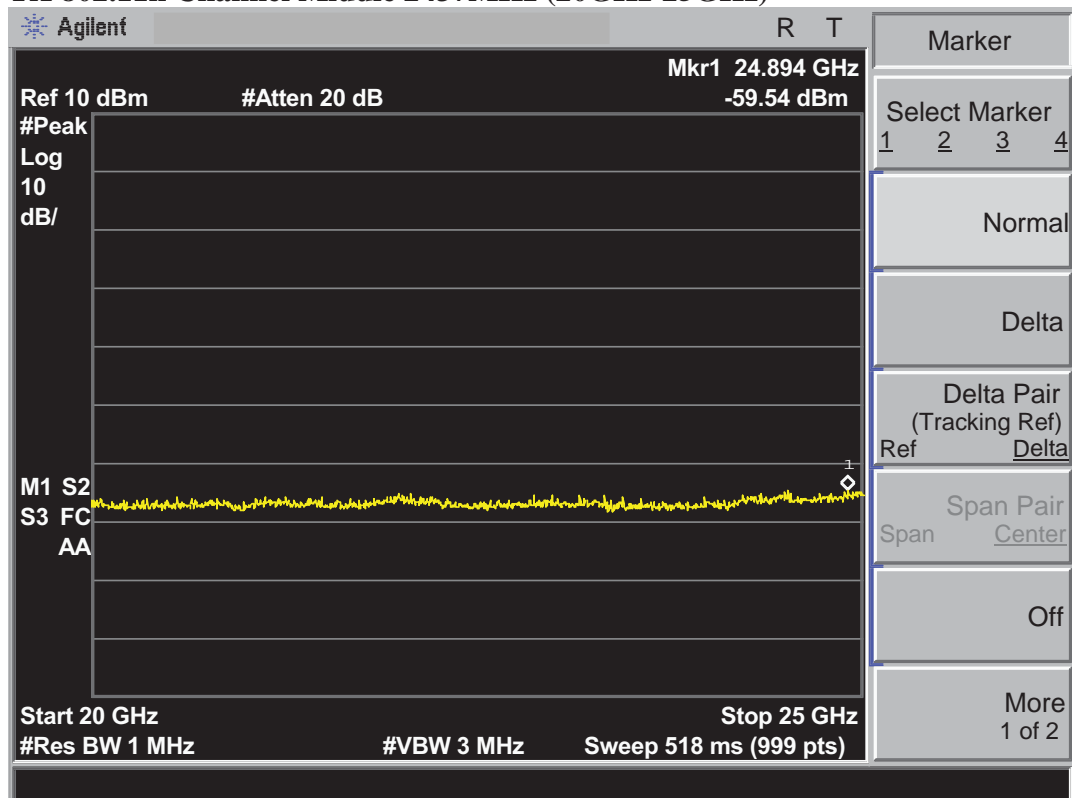
TX 802.11n Channel Middle 2437MHz (10GHz-15GHz)



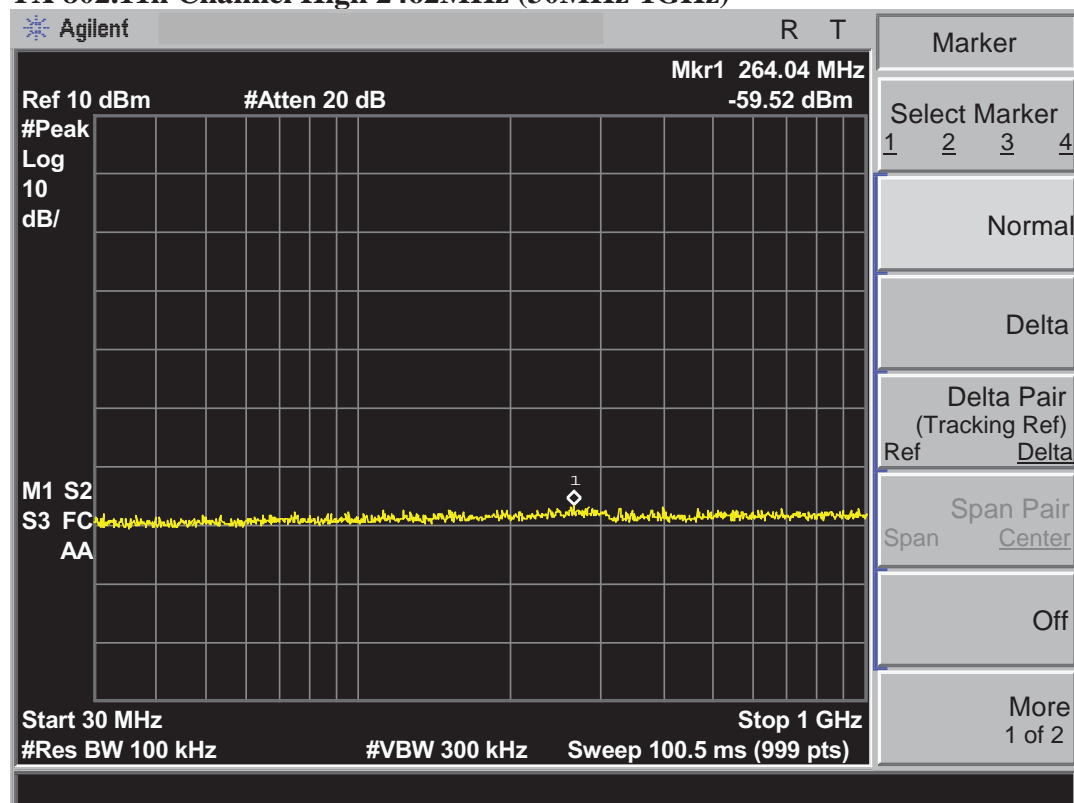
TX 802.11n Channel Middle 2437MHz (15GHz-20GHz)



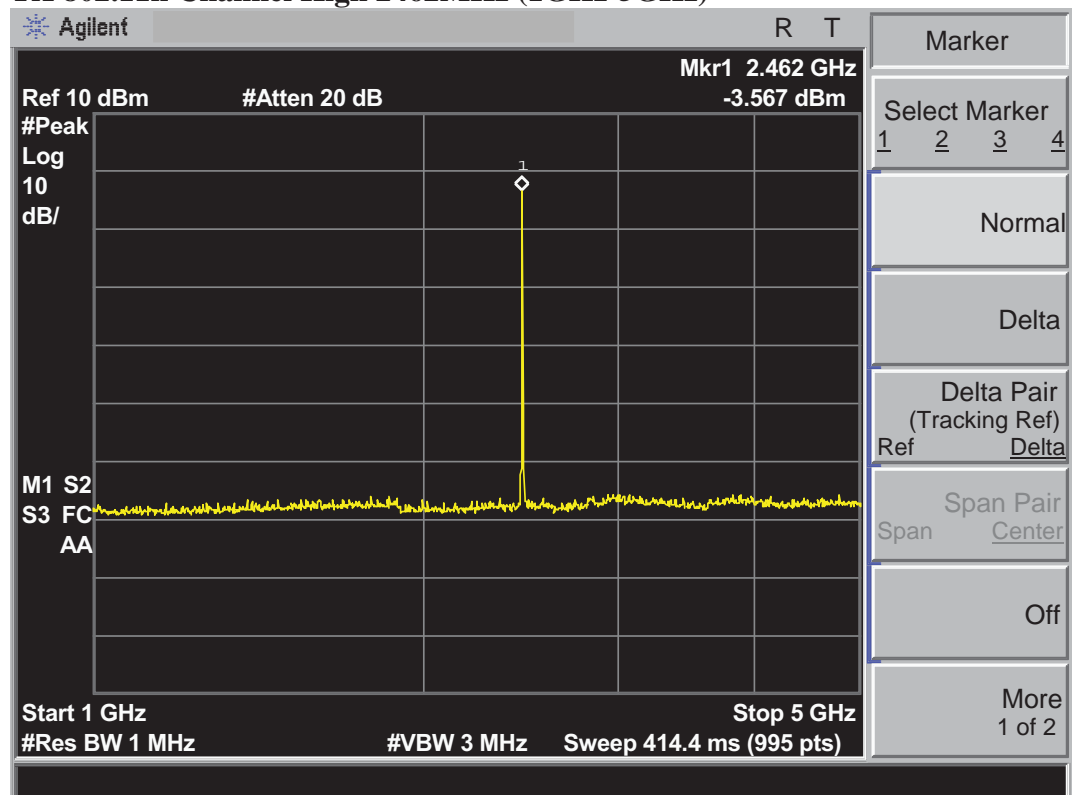
TX 802.11n Channel Middle 2437MHz (20GHz-25GHz)



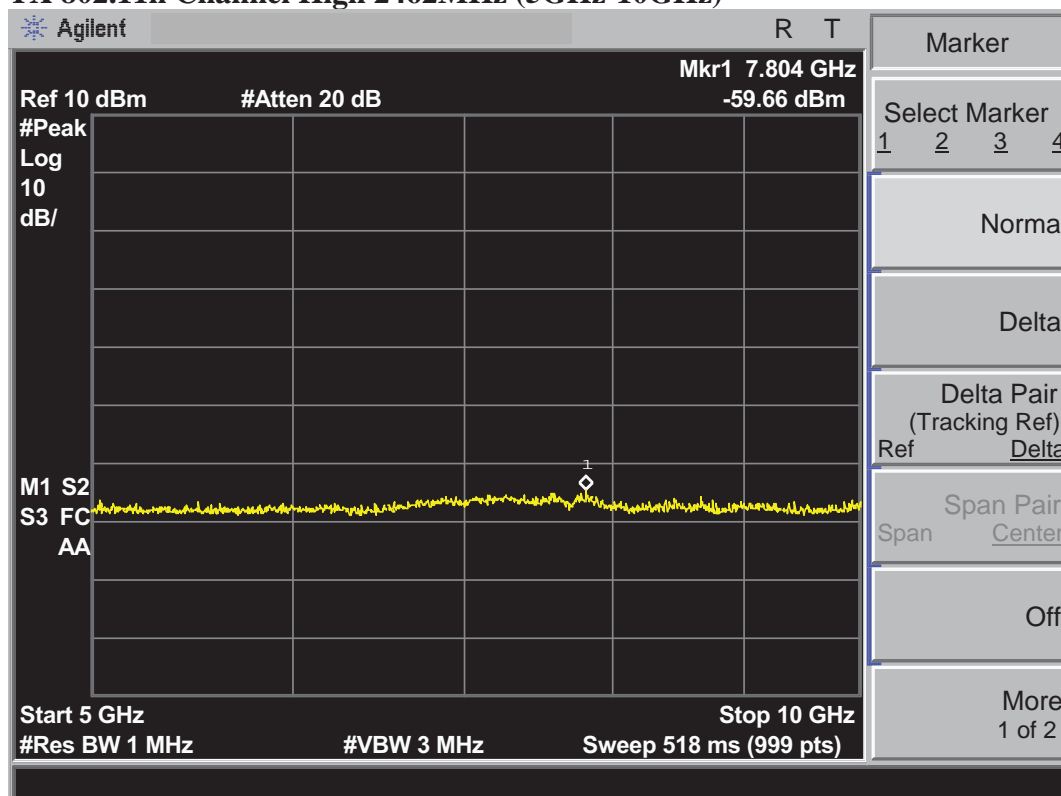
TX 802.11n Channel High 2462MHz (30MHz-1GHz)



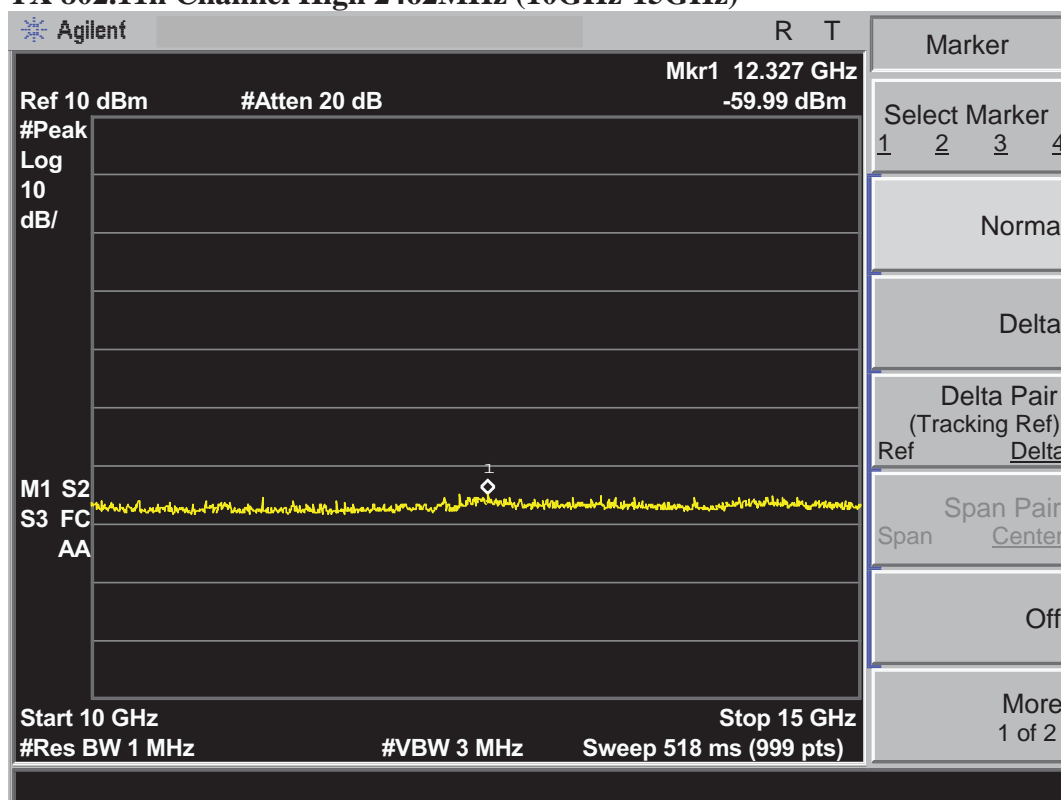
TX 802.11n Channel High 2462MHz (1GHz-5GHz)



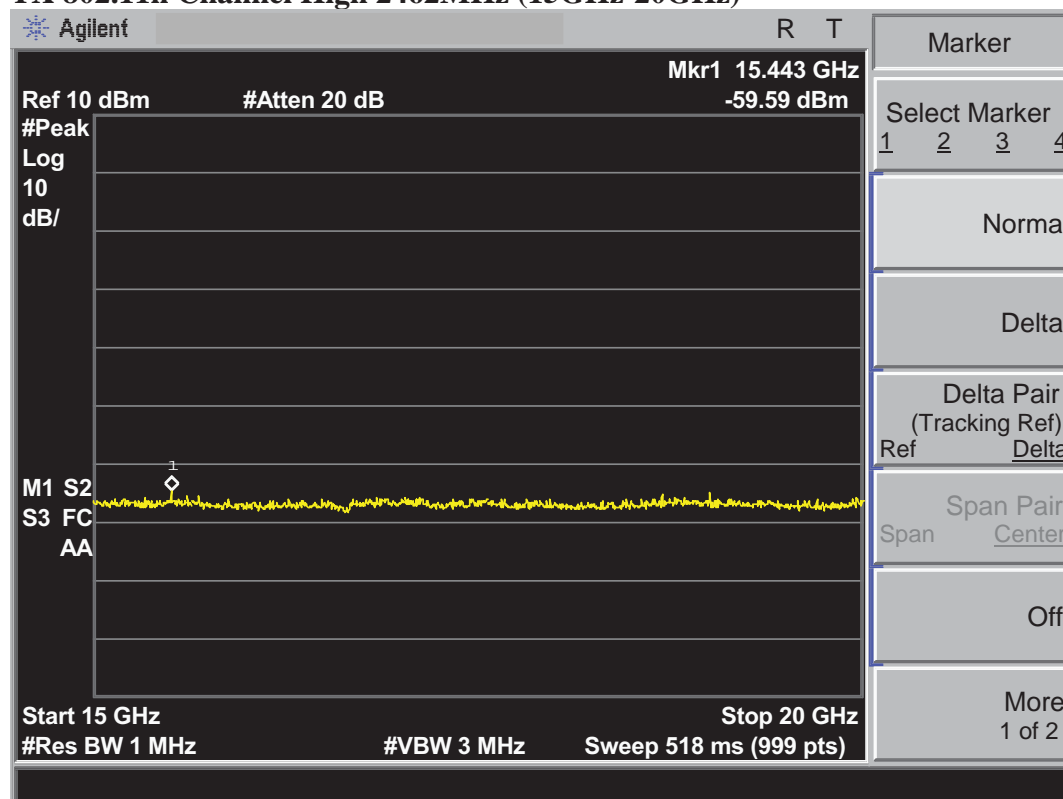
TX 802.11n Channel High 2462MHz (5GHz-10GHz)



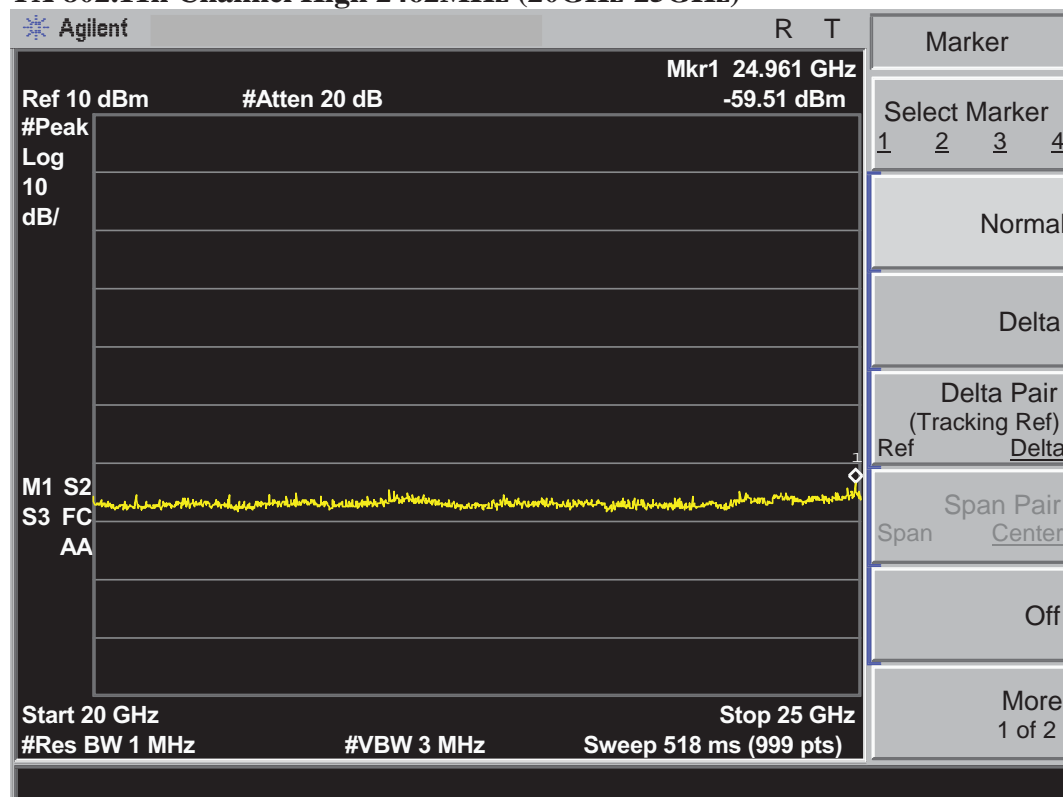
TX 802.11n Channel High 2462MHz (10GHz-15GHz)



TX 802.11n Channel High 2462MHz (15GHz-20GHz)



TX 802.11n Channel High 2462MHz (20GHz-25GHz)

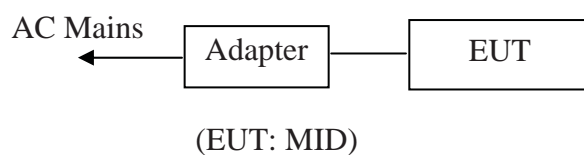


11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

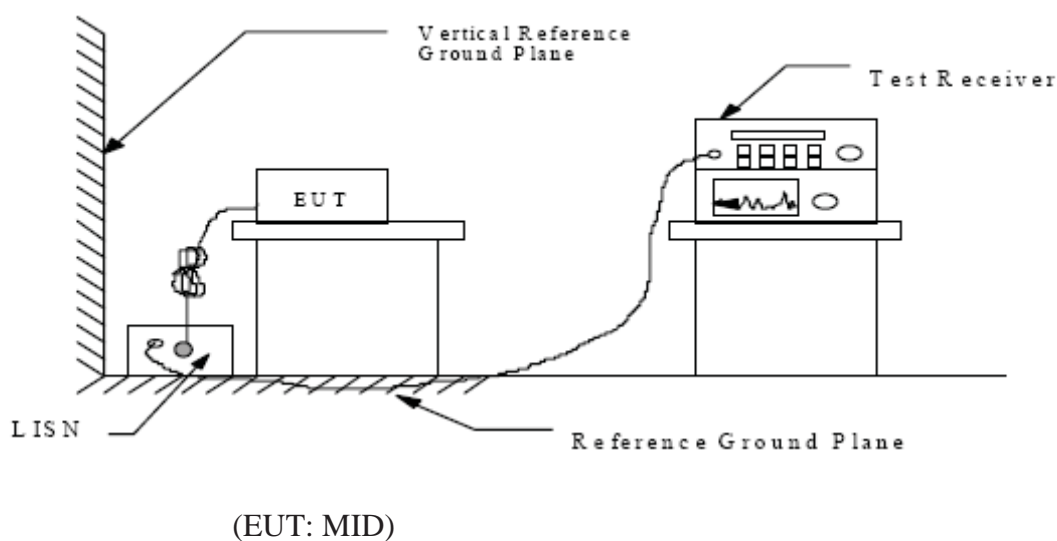
15 SECTION 15.207(A)

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

11.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.3.1.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (802.11b Channel Middle, 802.11g Channel Middle, 802.11n Channel Middle) mode measure it.

11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

11.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11b Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.154868	49.70	66	16.0	QP	Neutral
0.195997	46.60	64	17.2	QP	
0.451436	41.40	57	15.4	QP	
0.154868	33.30	56	22.4	AV	
0.196781	29.40	54	24.3	AV	
0.438995	23.60	47	23.5	AV	
0.157990	48.10	66	17.5	QP	Live
0.194439	45.40	64	18.4	QP	
0.423503	38.50	57	18.9	QP	
0.156109	31.70	56	24.0	AV	
0.195216	29.60	54	24.2	AV	
0.432041	24.20	47	23.0	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11g Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.154868	47.10	66	18.6	QP	Neutral
0.194439	44.10	64	19.7	QP	
0.438995	39.40	57	17.7	QP	
0.154251	31.50	56	24.3	AV	
0.196781	28.70	54	25.0	AV	
0.432041	24.10	47	23.1	AV	
0.150600	49.70	66	16.3	QP	Live
0.206437	45.80	63	17.5	QP	
0.442514	41.60	57	15.4	QP	
0.154251	33.90	56	21.9	AV	
0.192124	28.40	54	25.5	AV	
0.442514	23.30	47	23.7	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11n Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.153636	46.90	66	66	QP	Neutral
0.196781	43.50	64	64	QP	
0.442514	39.40	57	17.6	QP	
0.153024	32.30	56	23.5	AV	
0.194439	28.60	54	25.2	AV	
0.426898	24.20	47	23.1	AV	
0.153024	48.90	66	16.9	QP	Live
0.195216	46.20	64	17.6	QP	
0.449637	41.30	57	15.6	QP	
0.154868	32.60	56	23.1	AV	
0.190596	27.10	54	26.9	AV	
0.428605	23.20	47	24.1	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

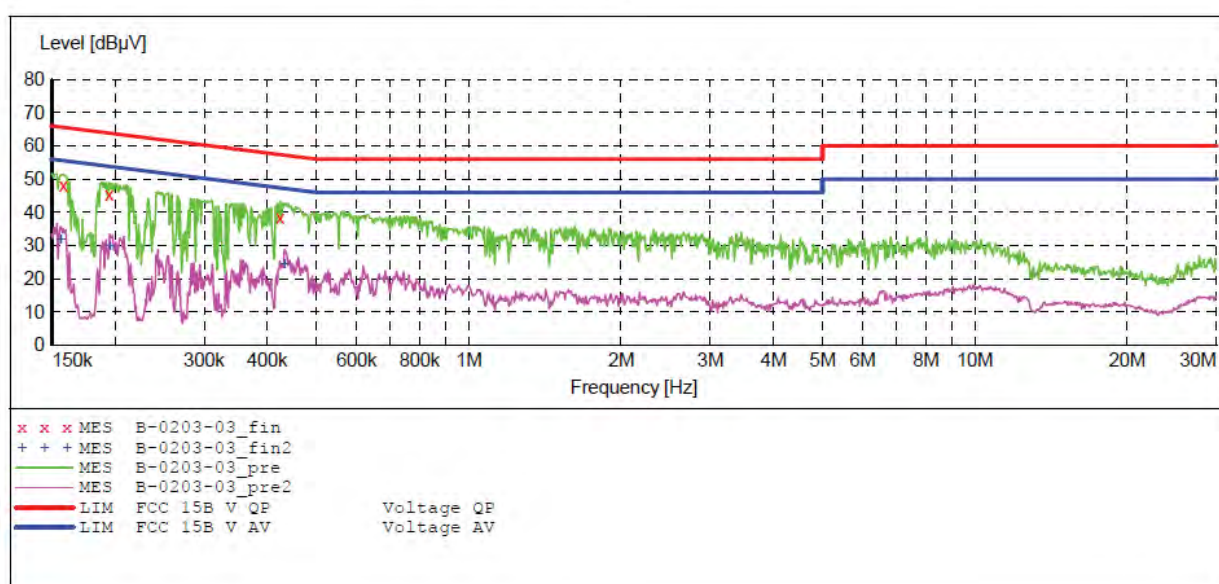
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GA20
 Manufacturer: Leader Digital-tech Weitong
 Operating Condition: TX Channel 6(802.11b)
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Reprot NO.:ATE20120037

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "B-0203-03_fin"**

2/3/2012 10:52AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.157990	48.10	11.0	66	17.5	QP	L1	GND
0.194439	45.40	11.2	64	18.4	QP	L1	GND
0.423503	38.50	11.9	57	18.9	QP	L1	GND

MEASUREMENT RESULT: "B-0203-03_fin2"

2/3/2012 10:52AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156109	31.70	11.0	56	24.0	AV	L1	GND
0.195216	29.60	11.2	54	24.2	AV	L1	GND
0.432041	24.20	11.9	47	23.0	AV	L1	GND

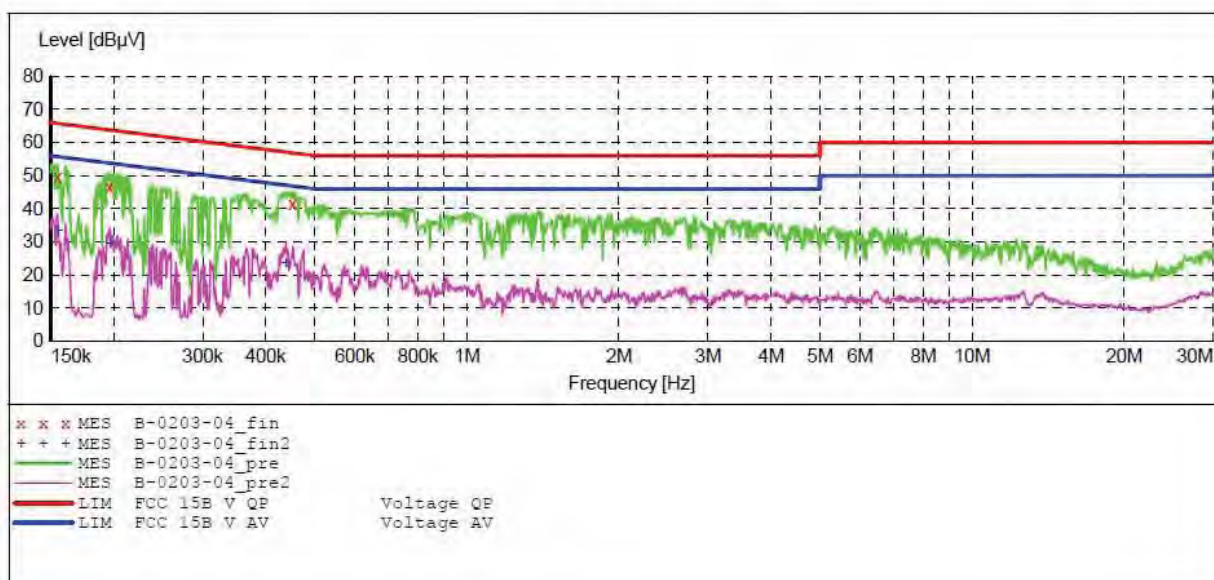
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GA20
 Manufacturer: Leader Digital-tech Weitong
 Operating Condition: TX Channel 6(802.11b)
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Reprot NO.:ATE20120037

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 150.0 kHz	Frequency 30.0 MHz	Width 0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "B-0203-04_fin"**

2/3/2012 10:56AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154868	49.70	11.0	66	16.0	QP	N	GND
0.195997	46.60	11.2	64	17.2	QP	N	GND
0.451436	41.40	11.9	57	15.4	QP	N	GND

MEASUREMENT RESULT: "B-0203-04_fin2"

2/3/2012 10:56AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154868	33.30	11.0	56	22.4	AV	N	GND
0.196781	29.40	11.2	54	24.3	AV	N	GND
0.438995	23.60	11.9	47	23.5	AV	N	GND

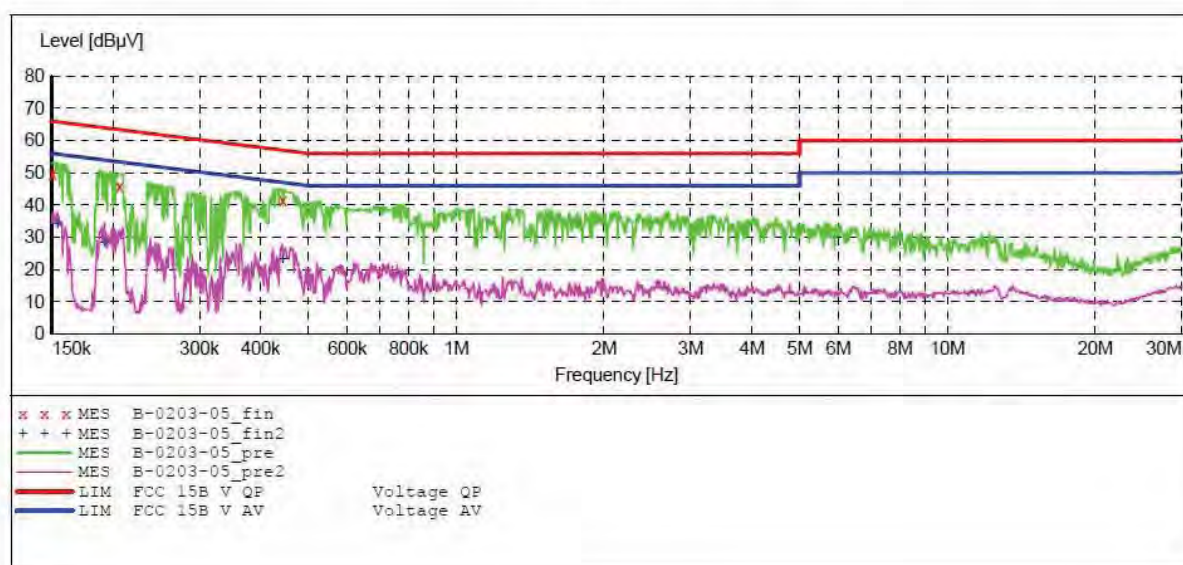
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GA20
 Manufacturer: Leader Digital-tech Weitong
 Operating Condition: TX Channel 6(802.11g)
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Reprot NO.:ATE20120037

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 150.0 kHz	Frequency 30.0 MHz	Step Width 0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "B-0203-05_fin"**

2/3/2012 10:59AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150600	49.70	11.0	66	16.3	QP	L1	GND
0.206437	45.80	11.3	63	17.5	QP	L1	GND
0.442514	41.60	11.9	57	15.4	QP	L1	GND

MEASUREMENT RESULT: "B-0203-05_fin2"

2/3/2012 10:59AM

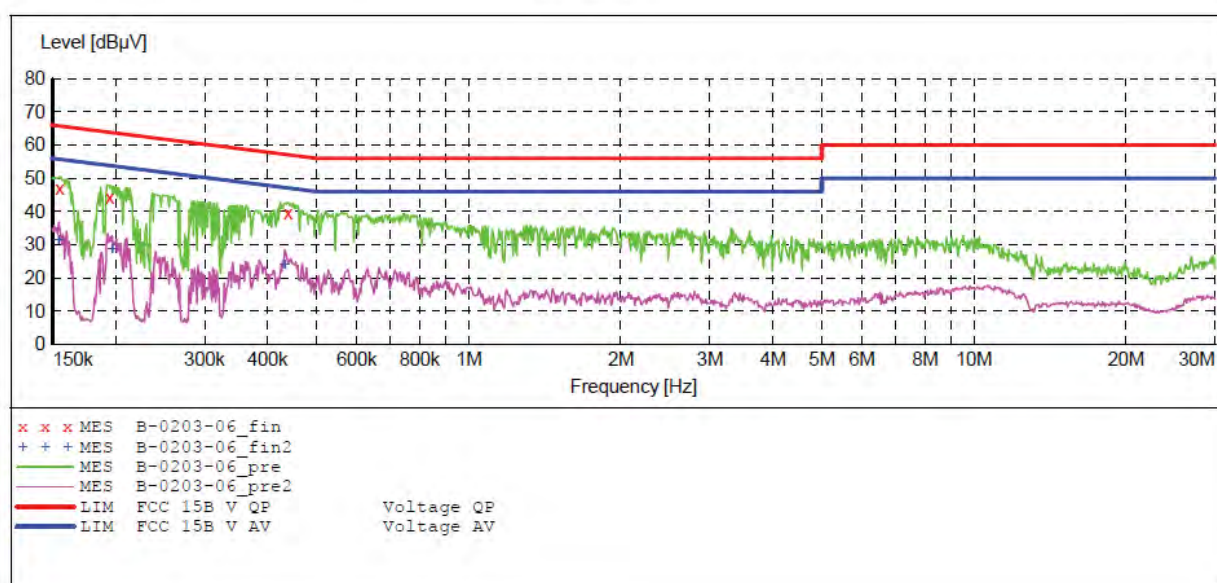
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154251	33.90	11.0	56	21.9	AV	L1	GND
0.192124	28.40	11.2	54	25.5	AV	L1	GND
0.442514	23.30	11.9	47	23.7	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GA20
 Manufacturer: Leader Digital-tech Weitong
 Operating Condition: TX Channel 6(802.11g)
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Reprot NO.:ATE20120037

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "B-0203-06_fin"**

2/3/2012 11:03AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154868	47.10	11.0	66	18.6	QP	N	GND
0.194439	44.10	11.2	64	19.7	QP	N	GND
0.438995	39.40	11.9	57	17.7	QP	N	GND

MEASUREMENT RESULT: "B-0203-06_fin2"

2/3/2012 11:03AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154251	31.50	11.0	56	24.3	AV	N	GND
0.196781	28.70	11.2	54	25.0	AV	N	GND
0.432041	24.10	11.9	47	23.1	AV	N	GND

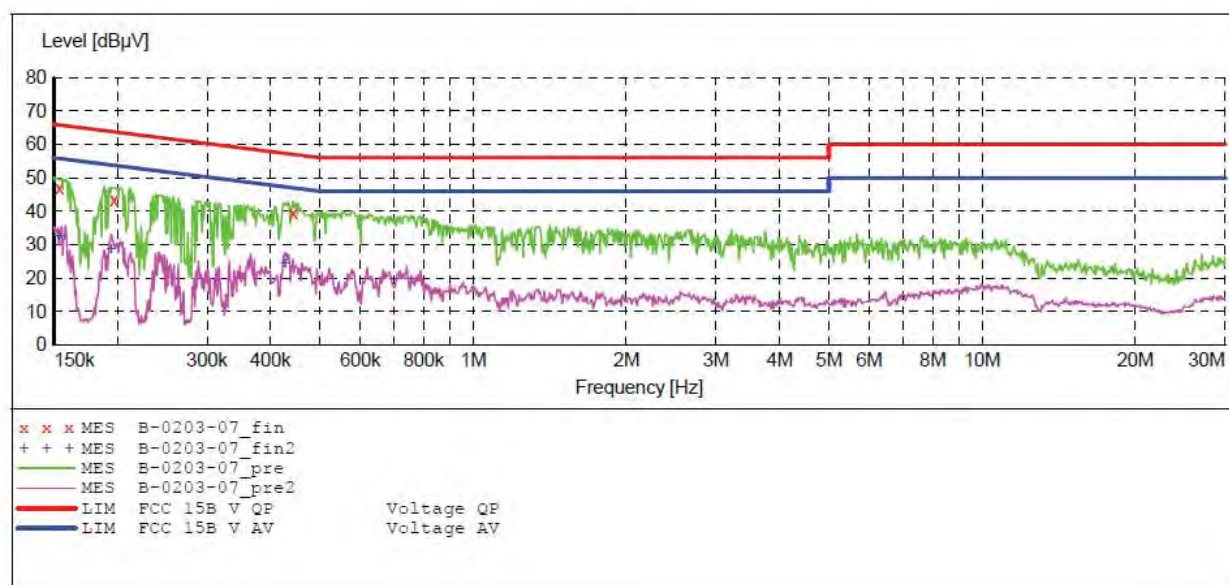
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GA20
 Manufacturer: Leader Digital-tech Weitong
 Operating Condition: TX Channel 6(802.11n)
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Reprot NO.:ATE20120037

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "B-0203-07_fin"**

2/3/2012 11:07AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153636	46.90	11.0	66	18.9	QP	N	GND
0.196781	43.50	11.2	64	20.2	QP	N	GND
0.442514	39.40	11.9	57	17.6	QP	N	GND

MEASUREMENT RESULT: "B-0203-07_fin2"

2/3/2012 11:07AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153024	32.30	11.0	56	23.5	AV	N	GND
0.194439	28.60	11.2	54	25.2	AV	N	GND
0.426898	24.20	11.9	47	23.1	AV	N	GND

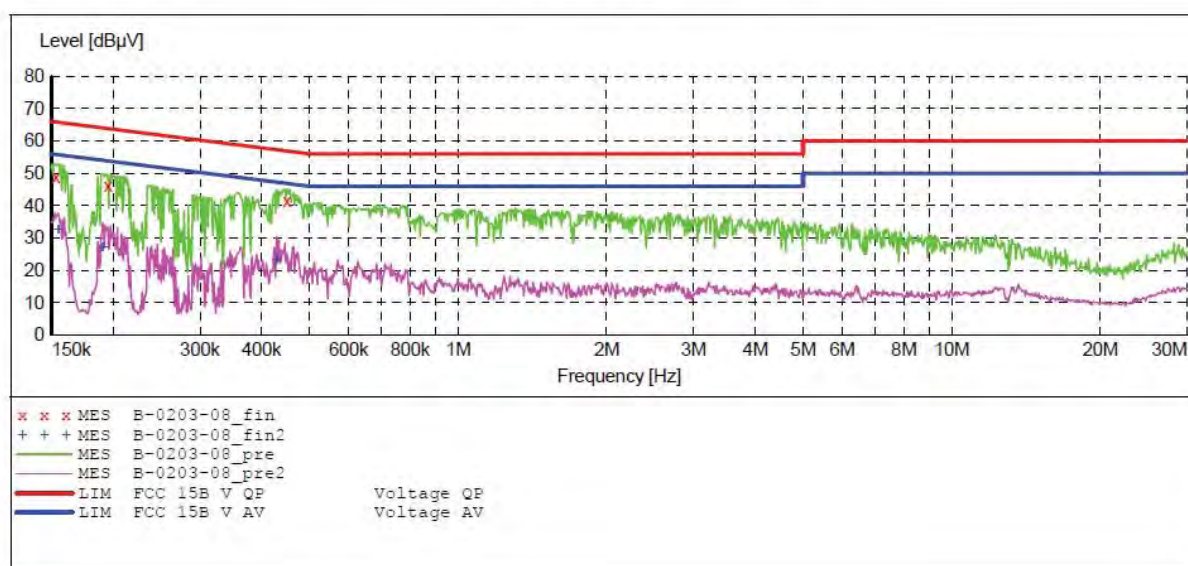
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: MID M/N:GA20
 Manufacturer: Leader Digital-tech Weitong
 Operating Condition: TX Channel 6(802.11n)
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Reprot NO.:ATE20120037

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "B-0203-08_fin"**

2/3/2012 11:11AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153024	48.90	11.0	66	16.9	QP	L1	GND
0.195216	46.20	11.2	64	17.6	QP	L1	GND
0.449637	41.30	11.9	57	15.6	QP	L1	GND

MEASUREMENT RESULT: "B-0203-08_fin2"

2/3/2012 11:11AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154868	32.60	11.0	56	23.1	AV	L1	GND
0.190596	27.10	11.2	54	26.9	AV	L1	GND
0.428605	23.20	11.9	47	24.1	AV	L1	GND

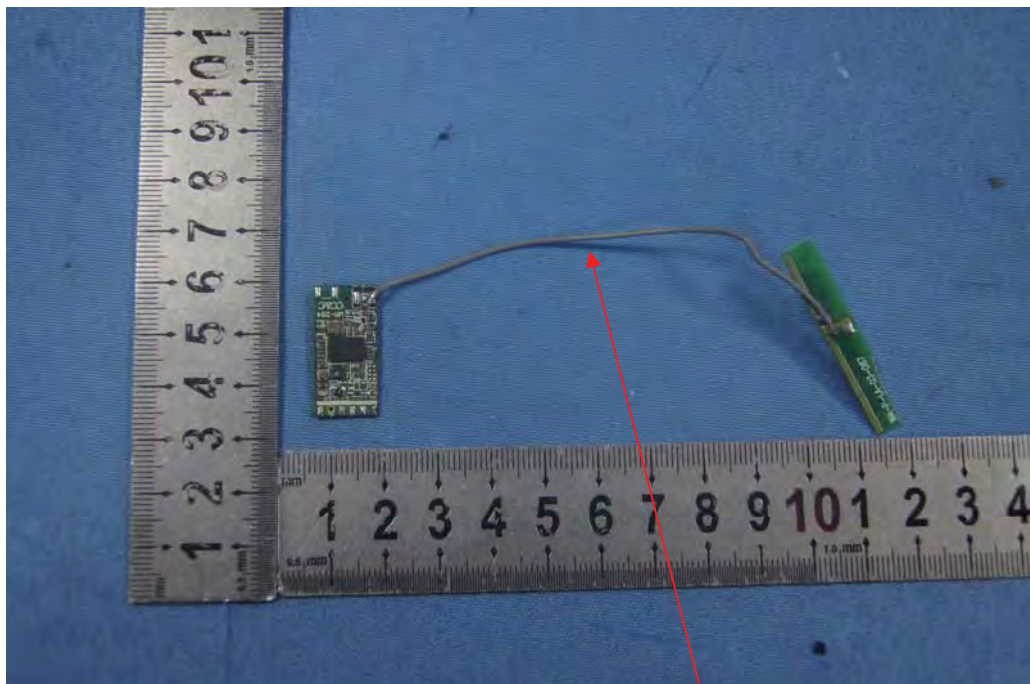
12.ANTENNA REQUIREMENT

12.1.The Requirement

According to 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.

12.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna