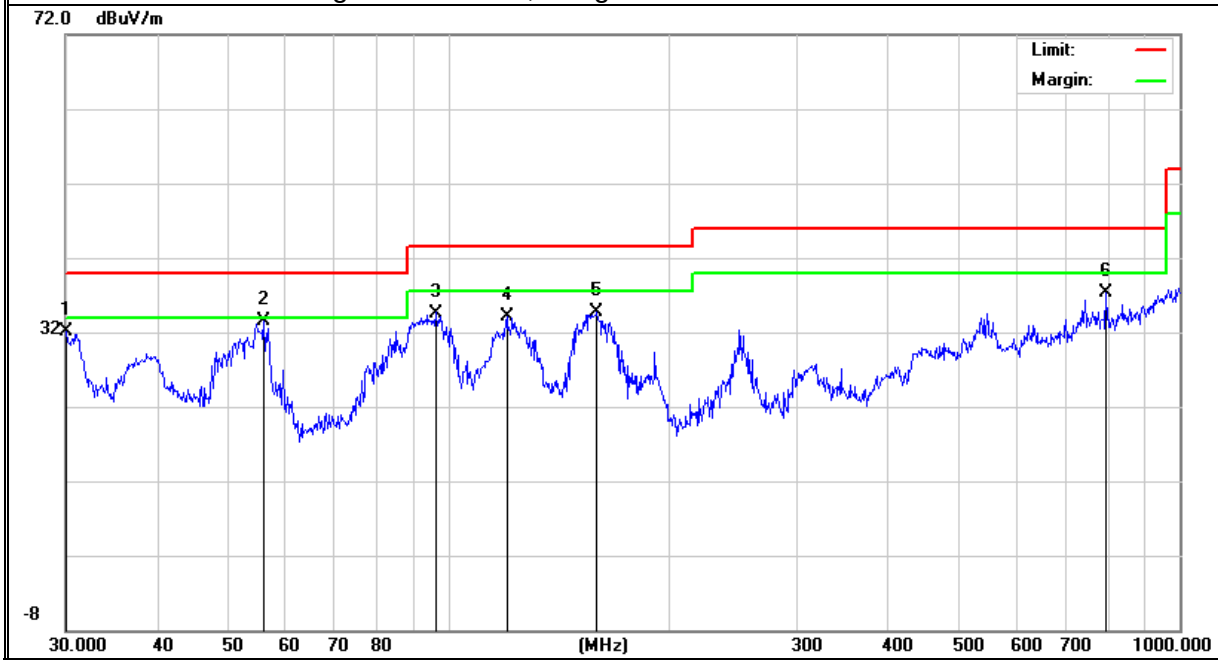
EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.6G)- 802.11a (High CH)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	30.1051	13.35	18.84	32.19	40.00	-7.81	QP
V	56.0007	26.62	6.91	33.53	40.00	-6.47	QP
V	96.0986	23.52	11.08	34.60	43.50	-8.90	QP
V	120.2766	20.93	13.19	34.12	43.50	-9.38	QP
V	159.7844	23.04	11.61	34.65	43.50	-8.85	QP
V	793.3958	10.02	27.28	37.30	46.00	-8.70	QP

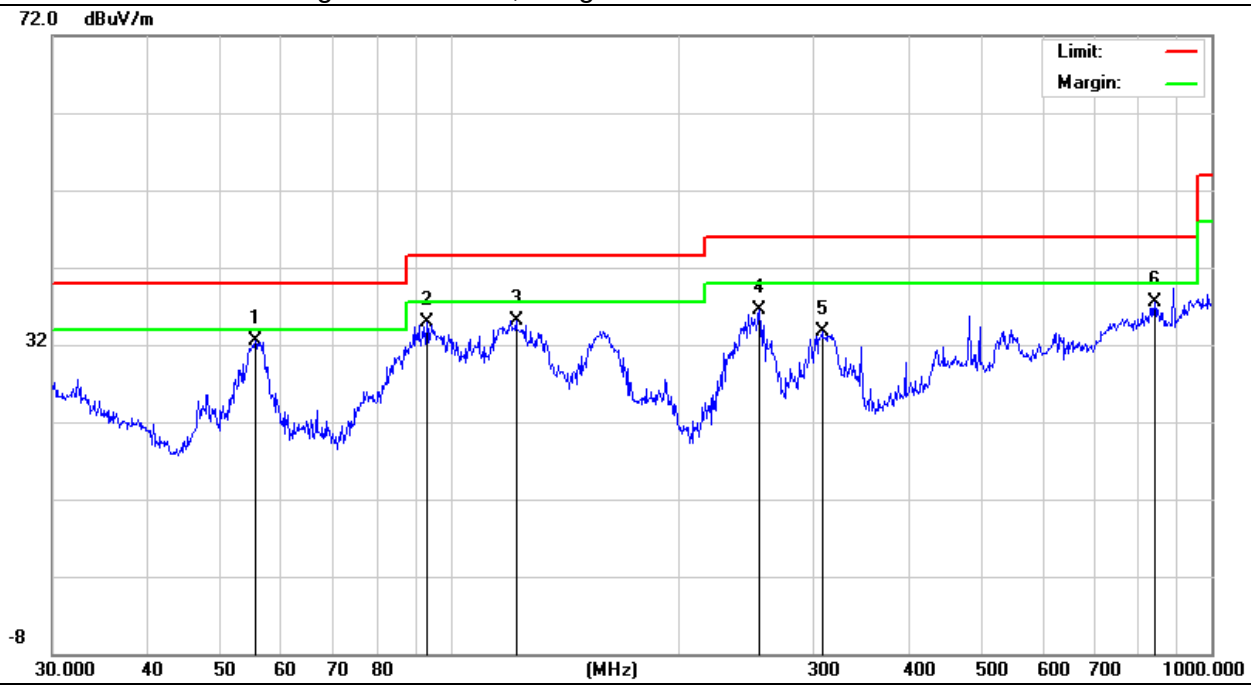
Remark:
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	55.4147	25.48	7.10	32.58	40.00	-7.42	QP
H	93.1132	23.94	10.99	34.93	43.50	-8.57	QP
H	121.9753	21.82	13.24	35.06	43.50	-8.44	QP
H	254.7281	21.37	15.23	36.60	46.00	-9.40	QP
H	307.8312	17.40	16.29	33.69	46.00	-12.31	QP
H	842.1295	8.97	28.62	37.59	46.00	-8.41	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

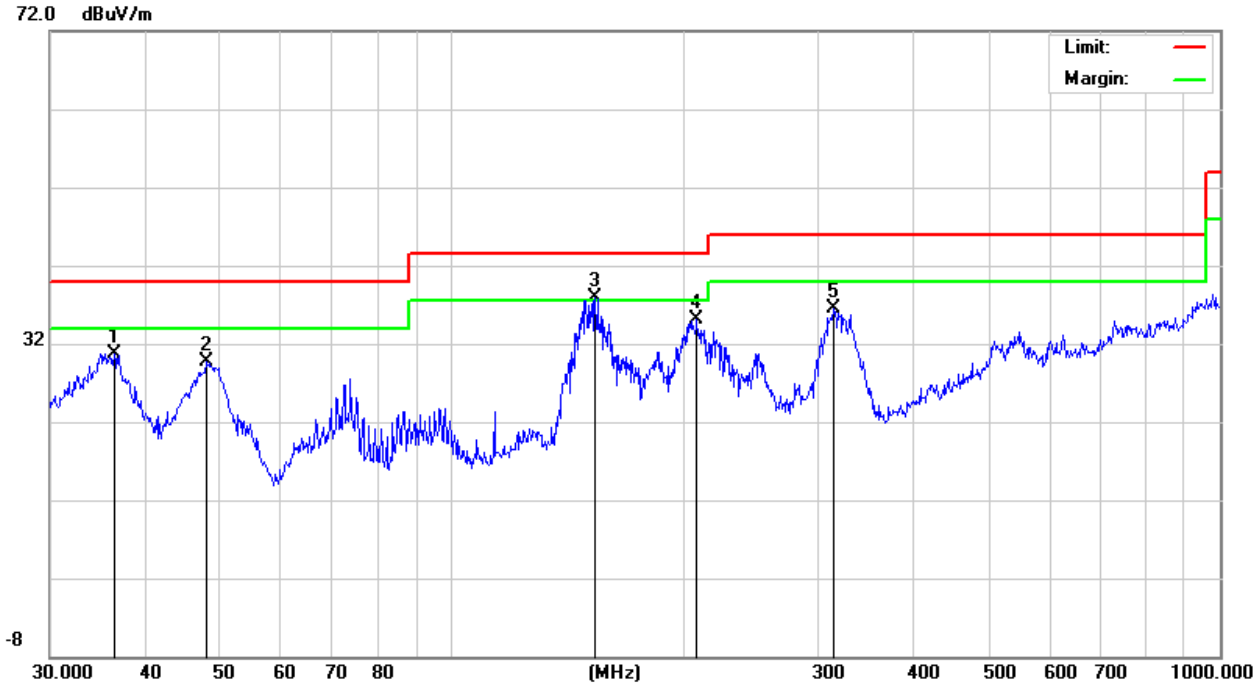


EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.8G) - 802.11a (High CH)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	36.3814	14.65	16.12	30.77	40.00	-9.23	QP
V	47.994	18.34	11.33	29.67	40.00	-10.33	QP
V	153.7385	25.28	12.58	37.86	43.50	-5.64	QP
V	208.5803	24.17	10.90	35.07	43.50	-8.43	QP
V	314.3765	20.04	16.41	36.45	46.00	-9.55	QP

Remark:

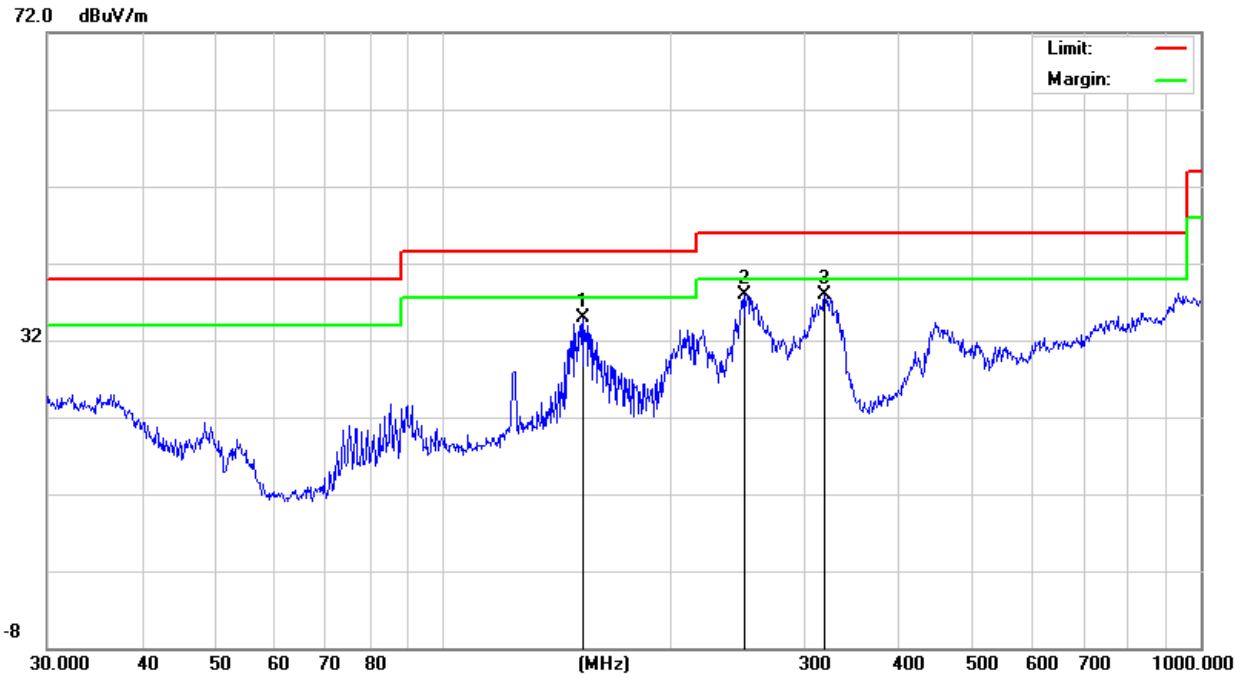
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	153.2004	22.38	12.61	34.99	43.50	-8.51	QP
H	250.3012	22.97	14.95	37.92	46.00	-8.08	QP
H	318.8170	21.38	16.49	37.87	46.00	-8.13	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



3.2.8 TEST RESULTS (1GHz-26.5GHz)

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.2G) - 802.11a _5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m	(dBuV/m	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	4435.96	60.89	5.94	35.40	44.00	58.23	74.00	-15.77	Pk
Vertical	4435.96	40.17	5.94	35.40	44.00	37.51	54.00	-16.49	AV
Vertical	10370.37	62.95	8.46	39.75	44.50	66.66	74.00	-7.34	Pk
Vertical	10370.37	39.69	8.46	39.75	44.50	43.40	54.00	-10.60	AV
Vertical	15541.11	59.86	10.12	38.80	44.10	64.68	74.00	-9.32	Pk
Vertical	15541.11	36.93	10.12	38.80	42.70	43.15	54.00	-10.85	AV
Horizontal	4434.79	62.80	5.94	35.18	44.00	59.92	74.00	-14.08	Pk
Horizontal	4434.79	42.05	5.94	35.18	44.00	39.17	54.00	-14.83	AV
Horizontal	10370.86	56.33	8.46	38.71	44.50	59.00	74.00	-15.00	Pk
Horizontal	10370.86	41.38	8.46	38.71	44.50	44.05	54.00	-9.95	AV
Horizontal	10540.37	54.85	10.12	38.38	44.10	59.25	74.00	-14.75	Pk
Horizontal	10540.37	39.41	10.12	38.38	44.10	43.81	54.00	-10.19	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	4592.77	56.93	6.48	36.35	44.05	55.71	74.00	-18.29	Pk
Vertical	4592.77	41.71	6.48	36.35	44.05	40.49	54.00	-13.51	AV
Vertical	10401.63	58.09	8.47	37.88	44.51	59.93	74.00	-14.07	Pk
Vertical	10401.63	40.50	8.47	37.88	44.51	42.34	54.00	-11.66	AV
Vertical	15601.23	58.20	10.12	38.80	44.10	63.02	74.00	-10.98	Pk
Vertical	15601.23	37.07	10.12	38.80	42.70	43.29	54.00	-10.71	AV
Horizontal	4592.82	58.04	6.48	36.37	44.05	56.84	74.00	-17.16	Pk
Horizontal	4592.82	43.07	6.48	36.37	44.05	41.87	54.00	-12.13	AV
Horizontal	10400.82	59.20	8.47	38.64	44.50	61.81	74.00	-12.19	Pk
Horizontal	10400.82	39.32	8.47	38.64	44.50	41.93	54.00	-12.07	AV
Horizontal	15600.85	57.45	10.12	38.38	44.10	61.85	74.00	-12.15	Pk
Horizontal	15600.85	39.93	10.12	38.38	44.10	44.33	54.00	-9.67	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4740.15	61.65	7.10	37.24	43.50	62.49	74.00	-11.51	Pk
Vertical	4740.15	41.22	7.10	37.24	43.50	42.06	54.00	-11.94	AV
Vertical	10481.02	58.47	8.46	37.68	44.50	60.11	74.00	-13.89	Pk
Vertical	10481.02	40.29	8.46	37.68	44.50	41.93	54.00	-12.07	AV
Vertical	15721.19	59.72	10.12	38.80	44.10	64.54	74.00	-9.46	Pk
Vertical	15721.19	36.59	10.12	38.80	42.70	42.81	54.00	-11.19	AV
Horizontal	4739.95	60.18	7.10	37.24	43.50	61.02	74.00	-12.98	Pk
Horizontal	4739.95	39.49	7.10	37.24	43.50	40.33	54.00	-13.67	AV
Horizontal	10482.64	59.31	8.46	38.57	44.50	61.84	74.00	-12.16	Pk
Horizontal	10482.64	39.58	8.46	38.57	44.50	42.11	54.00	-11.89	AV
Horizontal	15720.82	57.97	10.12	38.38	44.10	62.37	74.00	-11.63	Pk
Horizontal	15720.82	40.76	10.12	38.38	44.10	45.16	54.00	-8.84	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX(5.3G) - 802.11a _5260~5320MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4581.32	60.24	5.44	35.40	44.00	57.09	74.00	-16.91	Pk
Vertical	4581.32	41.72	5.74	35.40	44.00	38.86	54.00	-15.14	AV
Vertical	10520.79	61.42	8.26	39.75	44.50	64.93	74.00	-9.07	Pk
Vertical	10520.79	40.93	8.01	39.75	44.50	44.19	54.00	-9.81	AV
Vertical	15780.18	59.00	10.12	38.80	44.10	63.82	74.00	-10.18	Pk
Vertical	15780.18	37.87	9.62	38.80	42.70	43.59	54.00	-10.41	AV
Horizontal	4680.28	62.39	5.57	35.18	44.00	59.13	74.00	-14.87	Pk
Horizontal	4680.28	41.65	5.74	35.18	44.00	38.57	54.00	-15.43	AV
Horizontal	11491.31	57.46	8.38	38.71	44.50	60.05	74.00	-13.95	Pk
Horizontal	11491.31	40.53	8.45	38.71	44.50	43.19	54.00	-10.81	AV
Horizontal	17236.21	55.61	9.88	38.38	44.10	59.77	74.00	-14.23	Pk
Horizontal	17236.21	38.61	9.94	38.38	44.10	42.83	54.00	-11.17	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	4597.90	57.05	6.08	36.35	44.05	55.43	74.00	-18.57	Pk
Vertical	4597.90	40.68	6.39	36.35	44.05	39.37	54.00	-14.63	AV
Vertical	10560.53	57.79	8.28	37.88	44.51	59.44	74.00	-14.56	Pk
Vertical	10560.53	40.70	7.99	37.88	44.51	42.07	54.00	-11.93	AV
Vertical	15841.22	59.52	9.79	38.80	44.10	64.00	74.00	-10.00	Pk
Vertical	15841.22	37.67	9.70	38.80	42.70	43.47	54.00	-10.53	AV
Horizontal	4598.52	56.79	6.11	36.37	44.05	55.22	74.00	-18.78	Pk
Horizontal	4598.52	44.10	6.27	36.37	44.05	42.69	54.00	-11.31	AV
Horizontal	10560.65	60.27	8.33	38.64	44.50	62.74	74.00	-11.26	Pk
Horizontal	10560.65	39.17	8.07	38.64	44.50	41.37	54.00	-12.63	AV
Horizontal	15840.84	58.29	9.99	38.38	44.10	62.56	74.00	-11.44	Pk
Horizontal	15840.84	38.91	9.81	38.38	44.10	43.00	54.00	-11.00	AV
High Channel (5320 MHz)-Above 1G									
Vertical	6039.02	60.47	6.96	37.24	43.50	61.17	74.00	-12.83	Pk
Vertical	6039.02	41.47	7.07	37.24	43.50	42.27	54.00	-11.73	AV
Vertical	10641.27	59.86	8.14	37.68	44.50	61.18	74.00	-12.82	Pk
Vertical	10641.27	39.58	8.35	37.68	44.50	41.11	54.00	-12.89	AV
Vertical	15960.88	58.66	10.11	38.80	44.10	63.46	74.00	-10.54	Pk
Vertical	15960.88	36.94	9.64	38.80	42.70	42.69	54.00	-11.31	AV
Horizontal	6040.49	59.44	7.05	37.24	43.50	60.23	74.00	-13.77	Pk
Horizontal	6040.49	39.71	7.05	37.24	43.50	40.50	54.00	-13.50	AV
Horizontal	10640.94	58.64	8.20	38.57	44.50	60.91	74.00	-13.09	Pk
Horizontal	10640.94	41.39	8.03	38.57	44.50	43.49	54.00	-10.51	AV
Horizontal	15960.33	58.36	9.81	38.38	44.10	62.46	74.00	-11.54	Pk
Horizontal	15960.33	41.39	9.96	38.38	44.10	45.63	54.00	-8.37	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.6G) -- 802.11a _5500~5700MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	4693.53	61.78	5.61	35.40	44.00	58.79	74.00	-15.21	Pk
Vertical	4693.53	42.61	5.76	35.40	44.00	39.77	54.00	-14.23	AV
Vertical	11000.43	57.55	8.24	39.75	44.50	61.04	74.00	-12.96	Pk
Vertical	11000.43	39.41	8.35	39.75	44.50	43.01	54.00	-10.99	AV
Vertical	16500.95	48.54	10.05	38.80	44.10	53.29	74.00	-20.71	Pk
Vertical	16500.95	40.29	9.65	38.80	42.70	46.04	54.00	-7.96	AV
Horizontal	4686.36	58.07	5.78	35.18	44.00	55.03	74.00	-18.97	Pk
Horizontal	4686.36	40.02	5.66	35.18	44.00	36.87	54.00	-17.13	AV
Horizontal	11000.99	55.75	8.22	38.71	44.50	58.18	74.00	-15.82	Pk
Horizontal	11000.99	39.11	8.14	38.71	44.50	41.46	54.00	-12.54	AV
Horizontal	16500.57	59.38	10.04	38.38	44.10	63.70	74.00	-10.30	Pk
Horizontal	16500.57	37.13	9.73	38.38	44.10	41.14	54.00	-12.86	AV
middle Channel (5600 MHz)-Above 1G									
Vertical	4534.08	60.21	6.29	36.35	44.05	58.79	74.00	-15.21	Pk
Vertical	4534.08	41.77	6.24	36.35	44.05	40.31	54.00	-13.69	AV
Vertical	11200.50	57.42	8.24	37.88	44.51	59.04	74.00	-14.96	Pk
Vertical	11200.50	42.05	8.13	37.88	44.51	43.54	54.00	-10.46	AV
Vertical	16800.03	57.45	9.71	38.80	44.10	61.86	74.00	-12.14	Pk
Vertical	16800.03	38.32	10.12	38.80	42.70	44.53	54.00	-9.47	AV
Horizontal	4579.13	58.00	6.44	36.37	44.05	56.76	74.00	-17.24	Pk
Horizontal	4579.13	40.94	6.13	36.37	44.05	39.40	54.00	-14.60	AV
Horizontal	11200.96	58.39	8.31	38.64	44.50	60.84	74.00	-13.16	Pk
Horizontal	11200.96	40.63	8.04	38.64	44.50	42.81	54.00	-11.19	AV
Horizontal	16800.25	59.71	10.09	38.38	44.10	64.08	74.00	-9.92	Pk
Horizontal	16800.25	39.66	9.63	38.38	44.10	43.57	54.00	-10.43	AV
High Channel (5700 MHz)-Above 1G									
Vertical	6056.90	59.54	6.79	37.24	43.50	60.07	74.00	-13.93	Pk
Vertical	6056.90	40.15	6.85	37.24	43.50	40.74	54.00	-13.26	AV
Vertical	11400.30	58.79	8.10	37.68	44.50	60.07	74.00	-13.93	Pk
Vertical	11400.30	40.14	8.23	37.68	44.50	41.55	54.00	-12.45	AV
Vertical	17100.18	59.60	9.70	38.80	44.10	64.01	74.00	-9.99	Pk
Vertical	17100.18	38.28	9.70	38.80	42.70	44.08	54.00	-9.92	AV
Horizontal	6046.67	58.40	6.74	37.24	43.50	58.88	74.00	-15.12	Pk
Horizontal	6046.67	40.27	6.74	37.24	43.50	40.75	54.00	-13.25	AV
Horizontal	11400.36	57.89	8.25	38.57	44.50	60.21	74.00	-13.79	Pk
Horizontal	11400.36	39.80	8.35	38.57	44.50	42.22	54.00	-11.78	AV
Horizontal	17100.22	56.99	9.70	38.38	44.10	60.97	74.00	-13.03	Pk
Horizontal	17100.22	39.54	9.63	38.38	44.10	43.45	54.00	-10.55	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.8G) -- 802.11a _5745~5825MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	4680.45	61.70	5.94	35.40	44.00	59.04	74.00	-14.96	Pk
Vertical	4680.45	41.73	5.94	35.40	44.00	39.07	54.00	-14.93	AV
Vertical	11490.55	56.98	8.46	39.75	44.50	60.69	74.00	-13.31	Pk
Vertical	11490.55	39.97	8.46	39.75	44.50	43.68	54.00	-10.32	AV
Vertical	17236.36	48.70	10.12	38.80	44.10	53.52	74.00	-20.48	Pk
Vertical	17236.36	38.80	10.12	38.80	42.70	45.02	54.00	-8.98	AV
Horizontal	4680.21	58.42	5.94	35.18	44.00	55.54	74.00	-18.46	Pk
Horizontal	4680.21	39.48	5.94	35.18	44.00	36.60	54.00	-17.40	AV
Horizontal	11490.41	57.15	8.46	38.71	44.50	59.82	74.00	-14.18	Pk
Horizontal	11490.41	39.09	8.46	38.71	44.50	41.76	54.00	-12.24	AV
Horizontal	17235.25	58.55	10.12	38.38	44.10	62.95	74.00	-11.05	Pk
Horizontal	17235.25	38.13	10.12	38.38	44.10	42.53	54.00	-11.47	AV
middle Channel (5785 MHz)-Above 1G									
Vertical	4593.34	60.68	6.48	36.35	44.05	59.46	74.00	-14.54	Pk
Vertical	4593.34	40.17	6.48	36.35	44.05	38.95	54.00	-15.05	AV
Vertical	11570.91	57.66	8.47	37.88	44.51	59.50	74.00	-14.50	Pk
Vertical	11570.91	40.59	8.47	37.88	44.51	42.43	54.00	-11.57	AV
Vertical	17355.64	57.89	10.12	38.80	44.10	62.71	74.00	-11.29	Pk
Vertical	17355.64	38.56	10.12	38.80	42.70	44.78	54.00	-9.22	AV
Horizontal	4593.08	58.02	6.48	36.37	44.05	56.82	74.00	-17.18	Pk
Horizontal	4593.08	41.01	6.48	36.37	44.05	39.81	54.00	-14.19	AV
Horizontal	11570.59	59.62	8.47	38.64	44.50	62.23	74.00	-11.77	Pk
Horizontal	11570.59	41.05	8.47	38.64	44.50	43.66	54.00	-10.34	AV
Horizontal	17355.95	59.14	10.12	38.38	44.10	63.54	74.00	-10.46	Pk
Horizontal	17355.95	41.32	10.12	38.38	44.10	45.72	54.00	-8.28	AV
High Channel (5825 MHz)-Above 1G									
Vertical	6039.79	60.51	7.10	37.24	43.50	61.35	74.00	-12.65	Pk
Vertical	6039.79	39.90	7.10	37.24	43.50	40.74	54.00	-13.26	AV
Vertical	11652.65	59.23	8.46	37.68	44.50	60.87	74.00	-13.13	Pk
Vertical	11652.65	40.29	8.46	37.68	44.50	41.93	54.00	-12.07	AV
Vertical	17473.88	58.53	10.12	38.80	44.10	63.35	74.00	-10.65	Pk
Vertical	17473.88	39.21	10.12	38.80	42.70	45.43	54.00	-8.57	AV
Horizontal	6039.73	57.75	7.10	37.24	43.50	58.59	74.00	-15.41	Pk
Horizontal	6039.73	41.54	7.10	37.24	43.50	42.38	54.00	-11.62	AV
Horizontal	11652.51	59.09	8.46	38.57	44.50	61.62	74.00	-12.38	Pk
Horizontal	11652.51	39.91	8.46	38.57	44.50	42.44	54.00	-11.56	AV
Horizontal	17475.52	56.64	10.12	38.38	44.10	61.04	74.00	-12.96	Pk
Horizontal	17475.52	39.09	10.12	38.38	44.10	43.49	54.00	-10.51	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

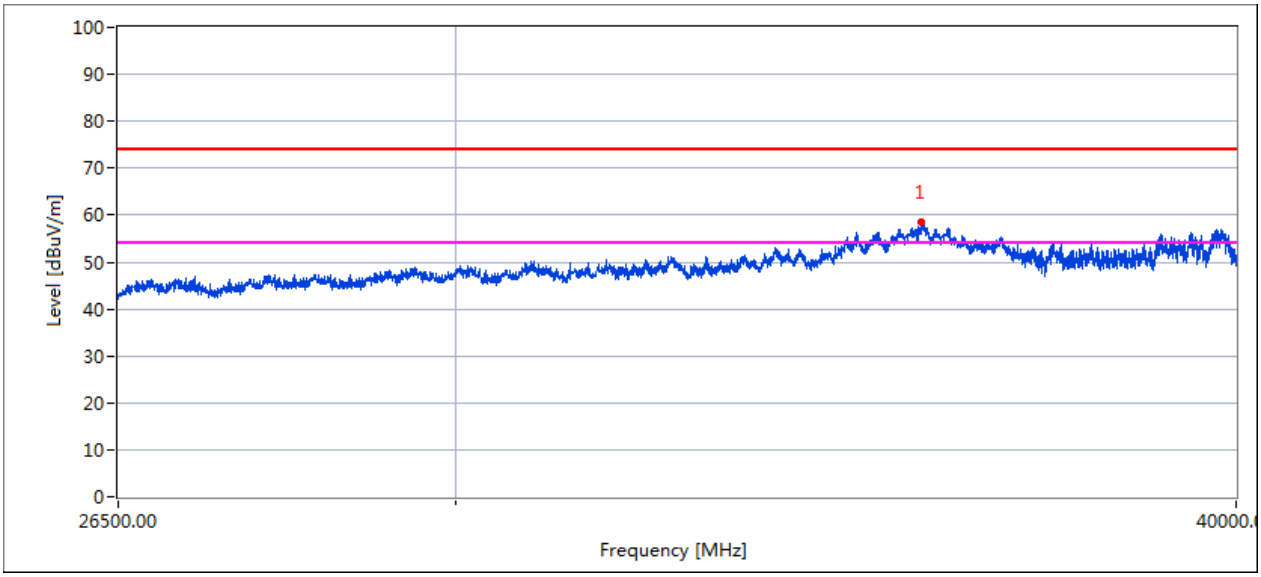
3.2.9 TEST RESULTS (26.5GHZ-40GHZ)

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.2G)-802.11a 5180MHz~5240MHz , TX (5.3G)-802.11a 5260MHz~5320MHz TX (5.6G)-802.11a 5500MHz~5700MHz TX (5.8G)-802.11a 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

Low Channel (5180 MHz)-Above 1G

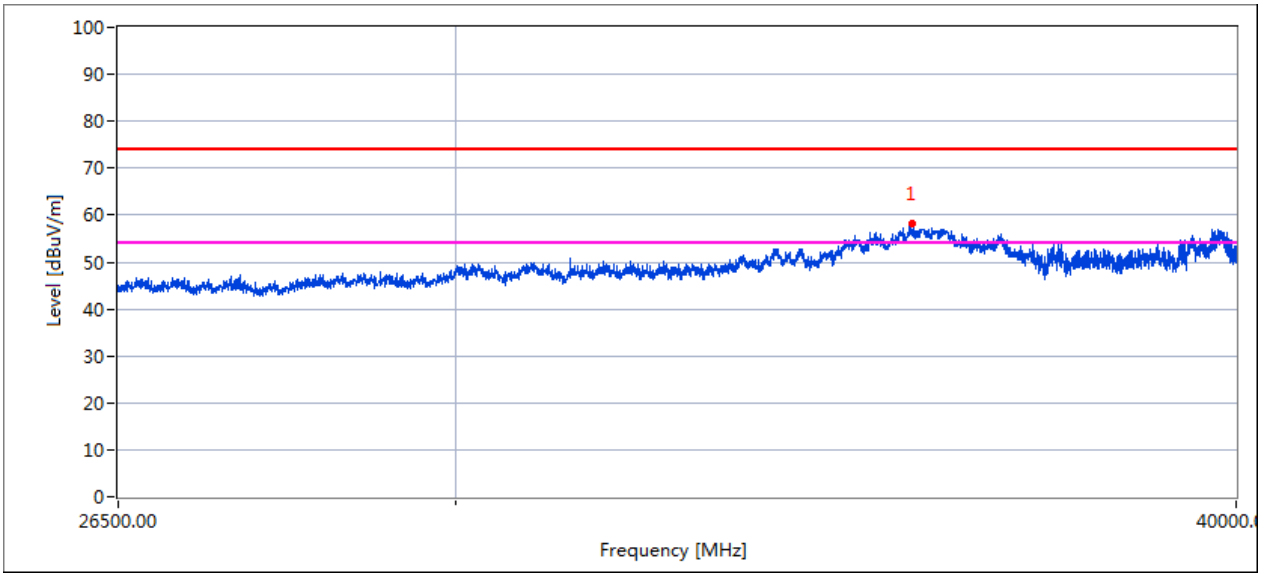
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35716.438	58.7	55.5	74.0	18.5
35716.438	44.3	43.4	54.0	10.6

Vertical

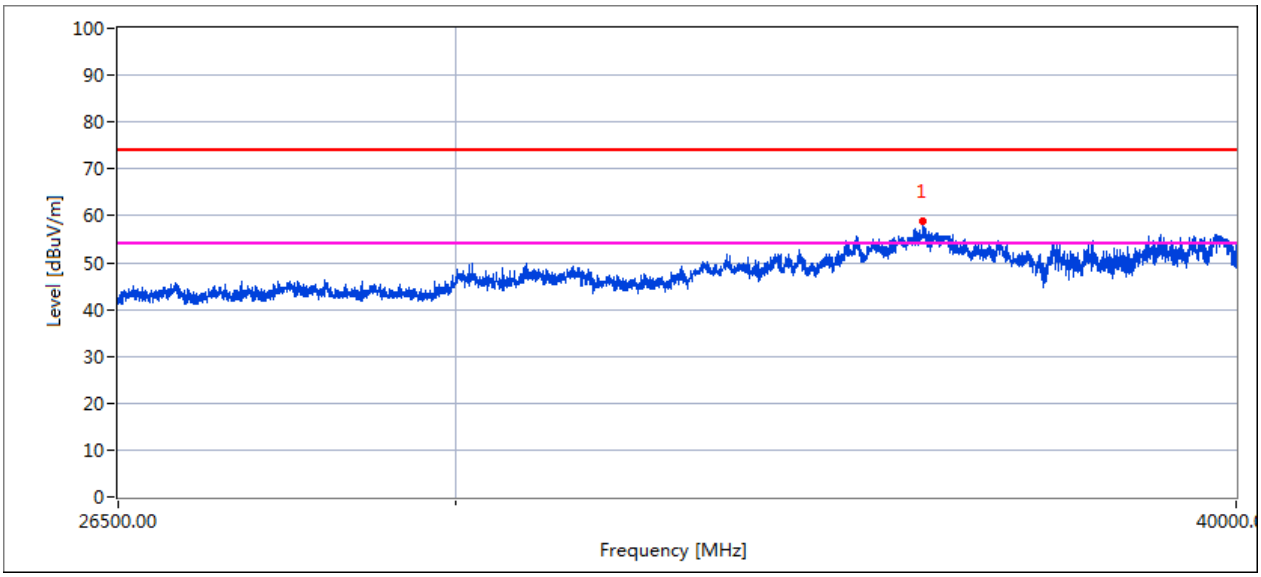


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35463.336	58.5	54.7	74.0	19.3
35463.336	45.8	43.1	54.0	10.9

High Channel (5240 MHz)-Above 1G

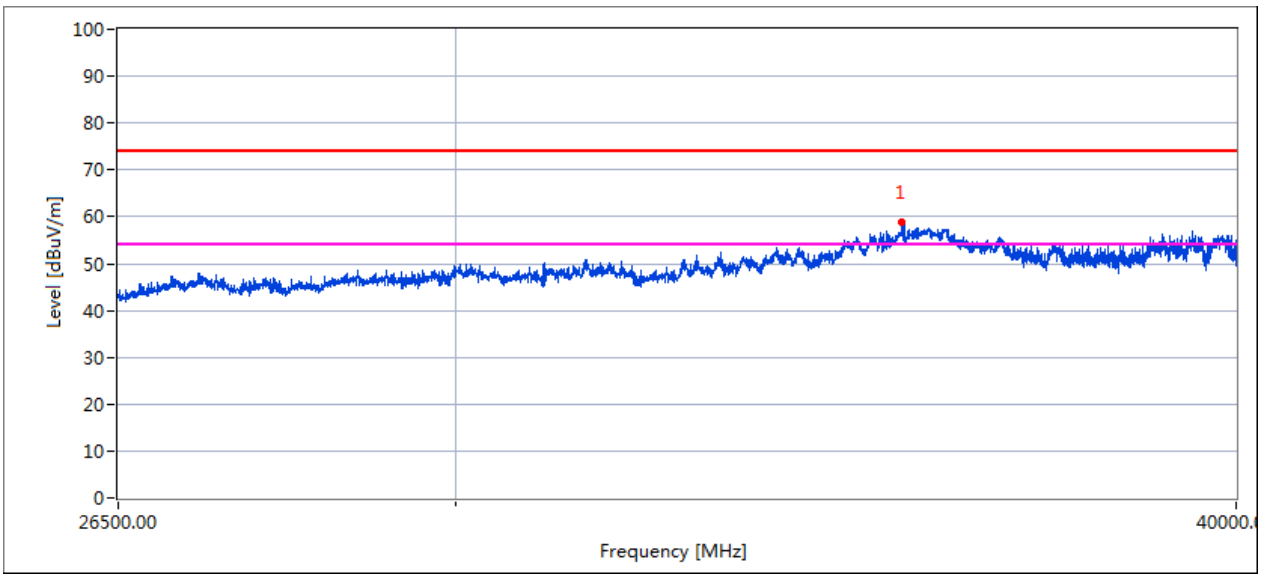
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35624.318	58.6	55.6	74.0	18.4
35624.318	42.3	42.1	54.0	11.9

Vertical

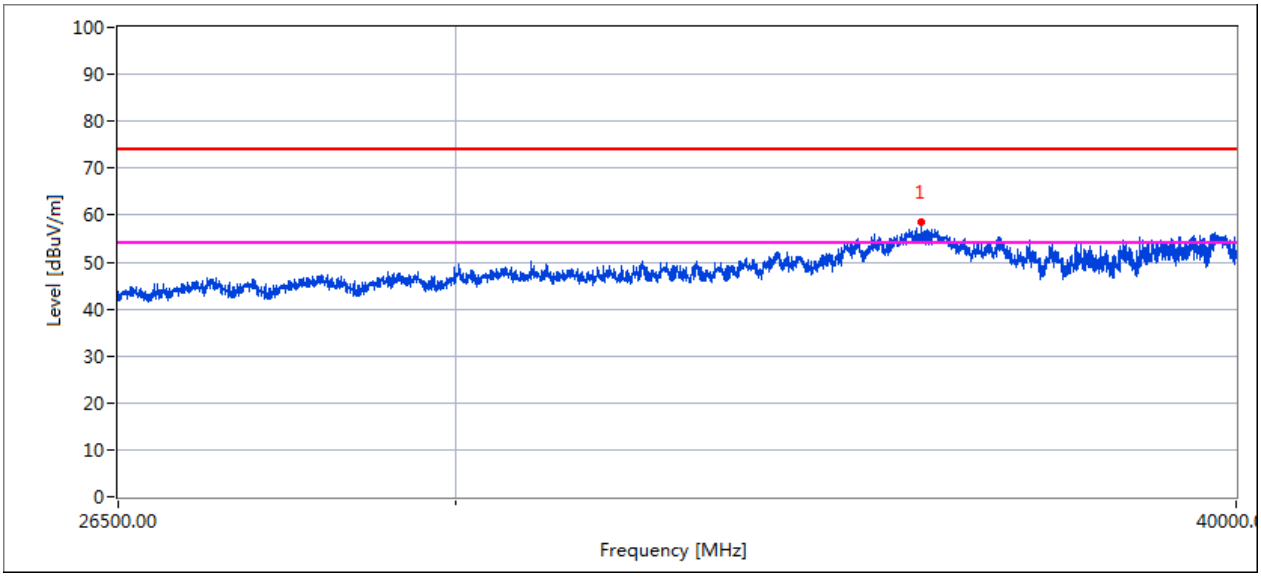


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35715.496	59.4	57.4	74.0	16.6
35715.496	43.2	43.2	54.0	10.8

Low Channel (5260 MHz)-Above 1G

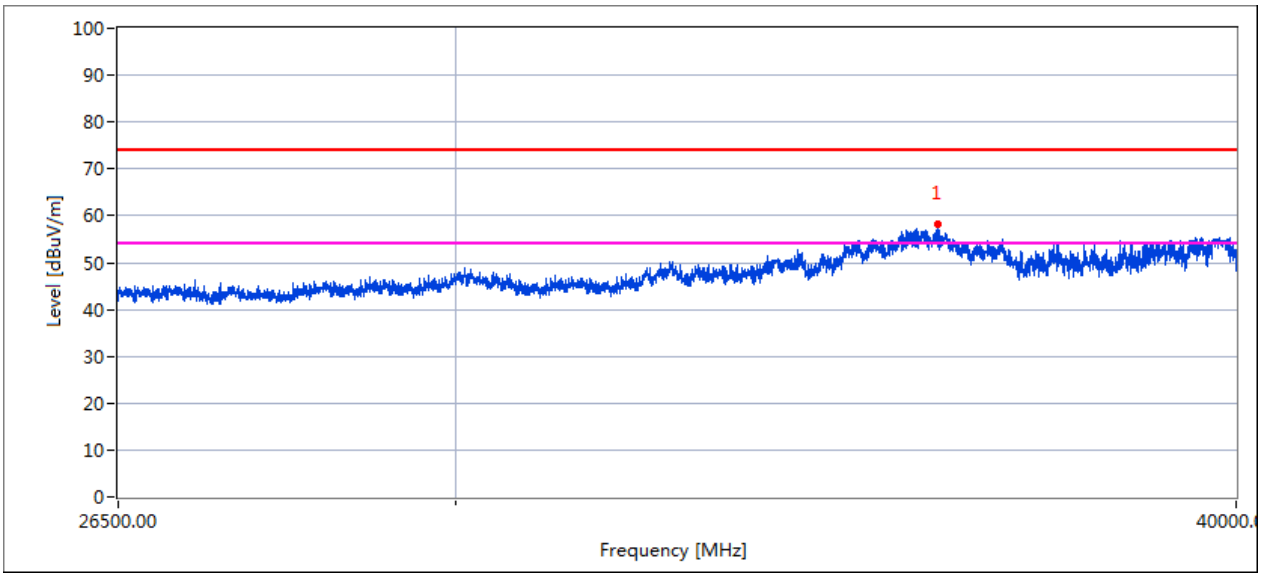
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35637.324	58.3	48.3	74.0	25.7
35637.324	42.3	43.1	54.0	10.9

Vertical

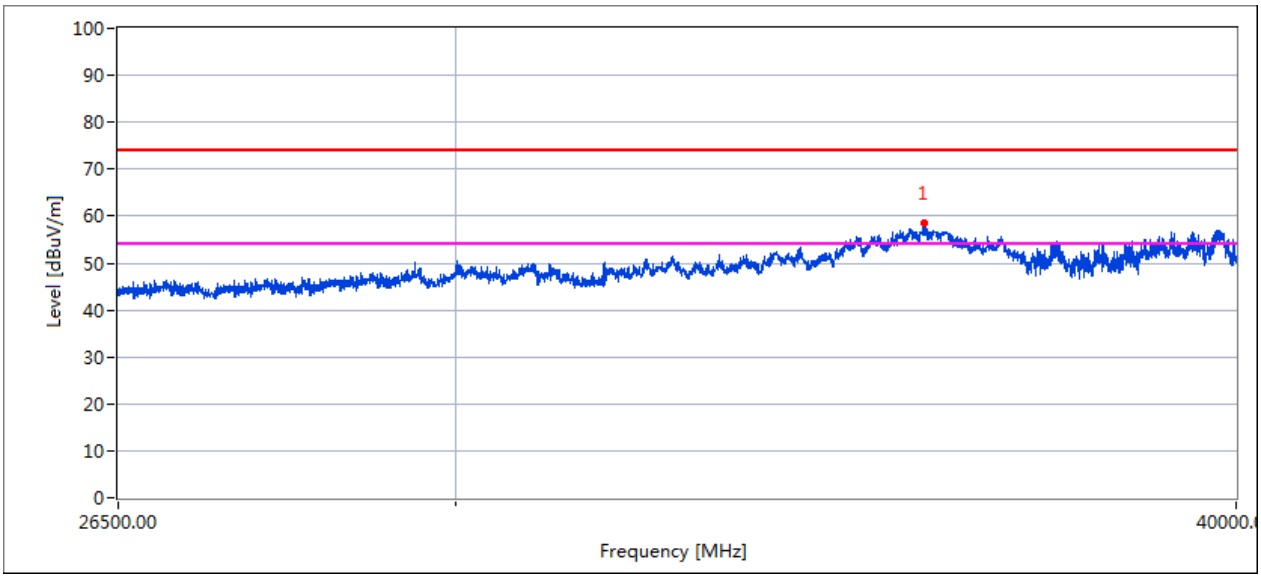


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35635.261	58.5	54.2	74.0	19.8
35635.261	42.4	42.3	54.0	11.7

High Channel (5320 MHz)-Above 1G

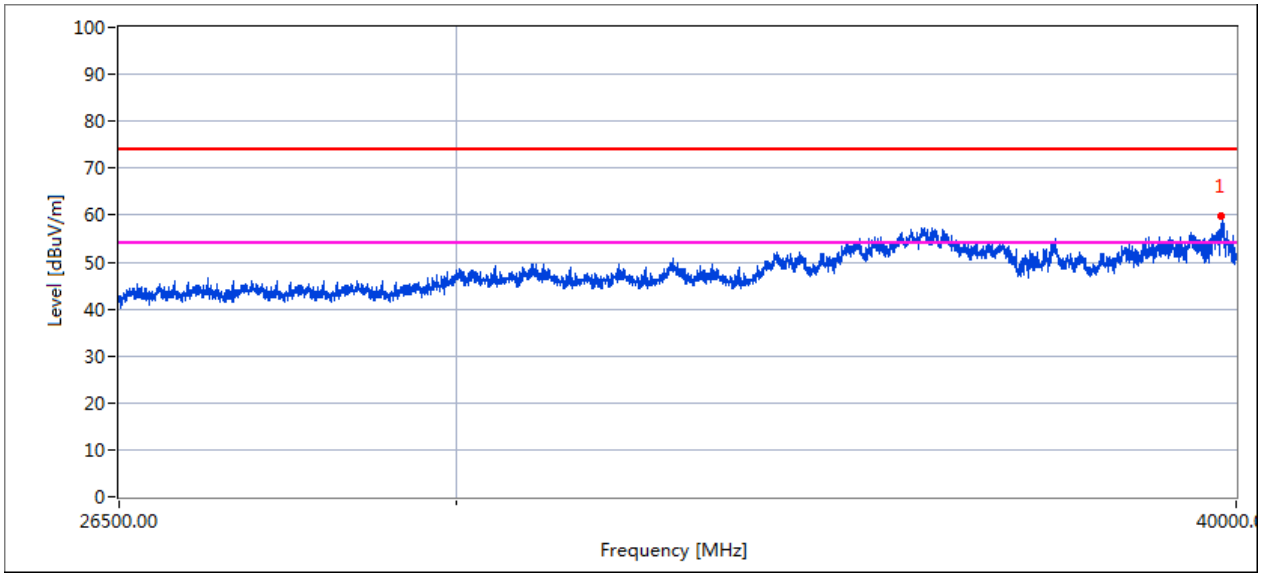
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35471.259	58.4	57.1	74.0	16.9
35471.259	43.6	43.4	54.0	10.6

Vertical

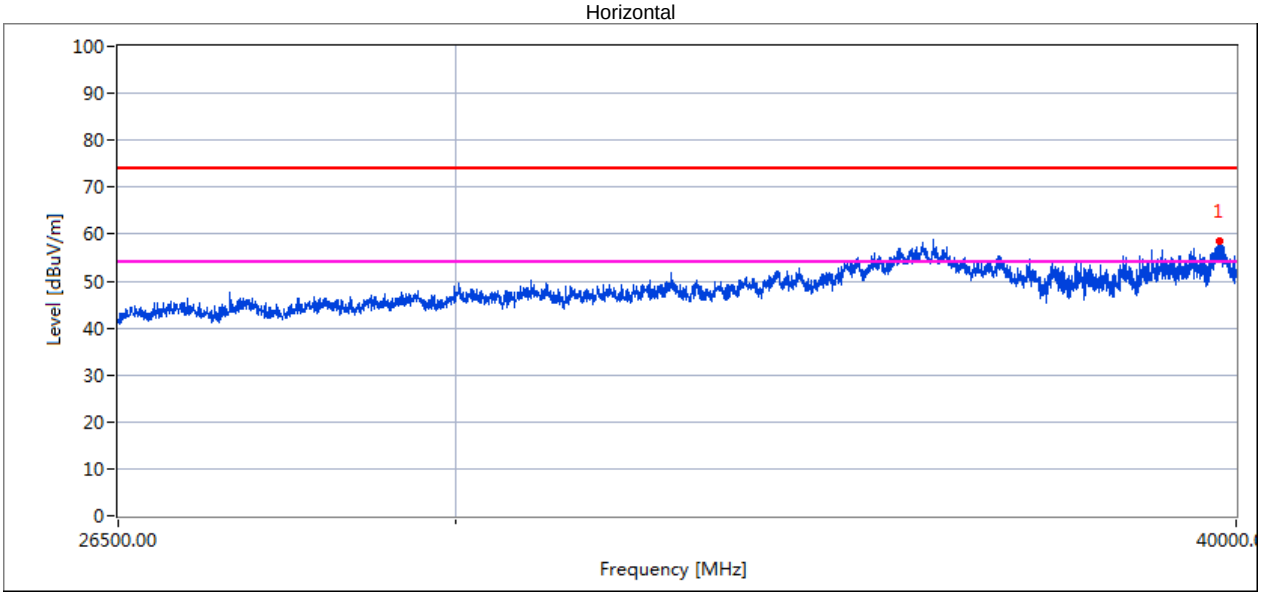


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39759.547	58.3	58.1	74.0	15.9
39759.547	43.2	43.2	54.0	10.8

Low Channel (5500 MHz)-Above 1G

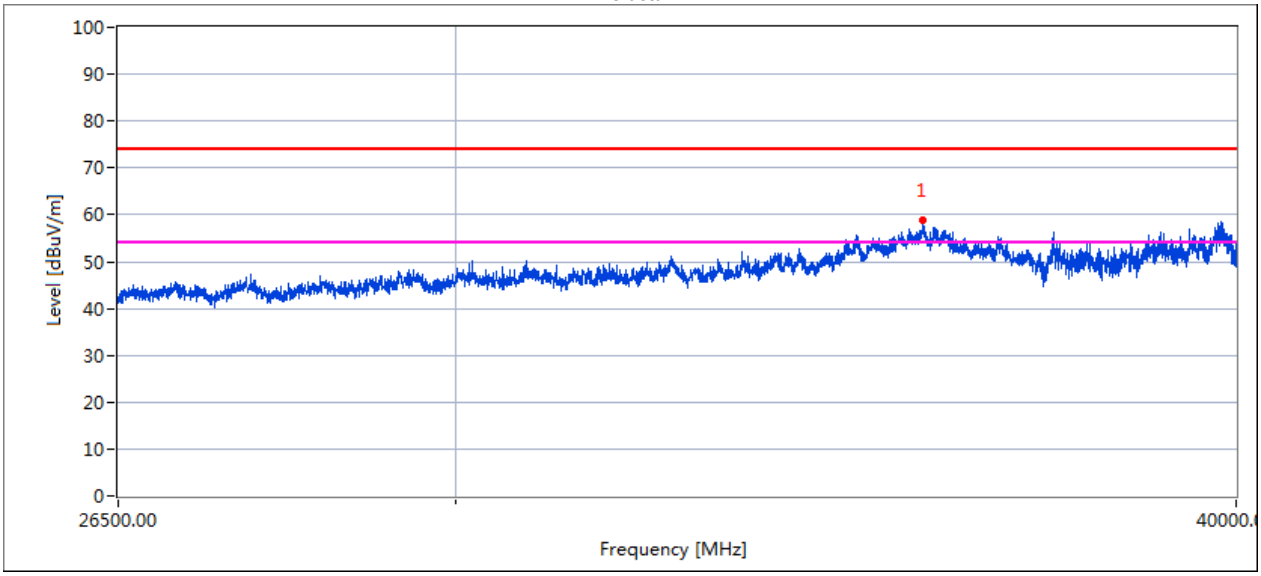
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39724.175	58.4	58.0	74.0	16.0
39724.175	43.5	42.8	54.0	11.2

Vertical

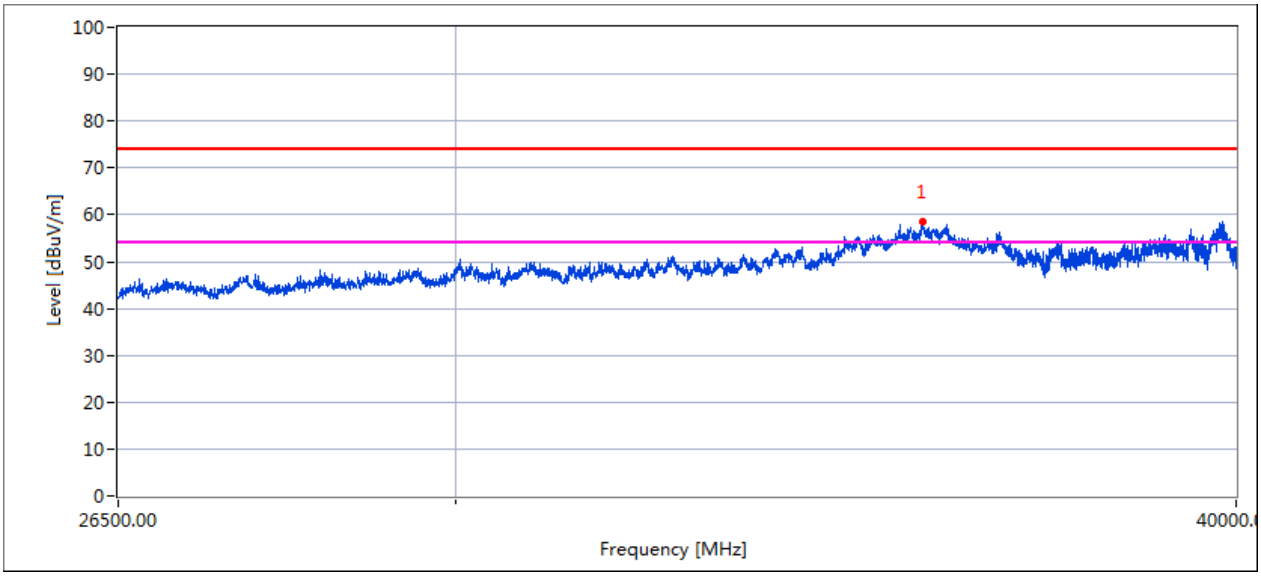


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35642.301	58.7	56.3	74	17.7
35642.301	43.3	42.3	54.0	11.7

High Channel (5700 MHz)-Above 1G

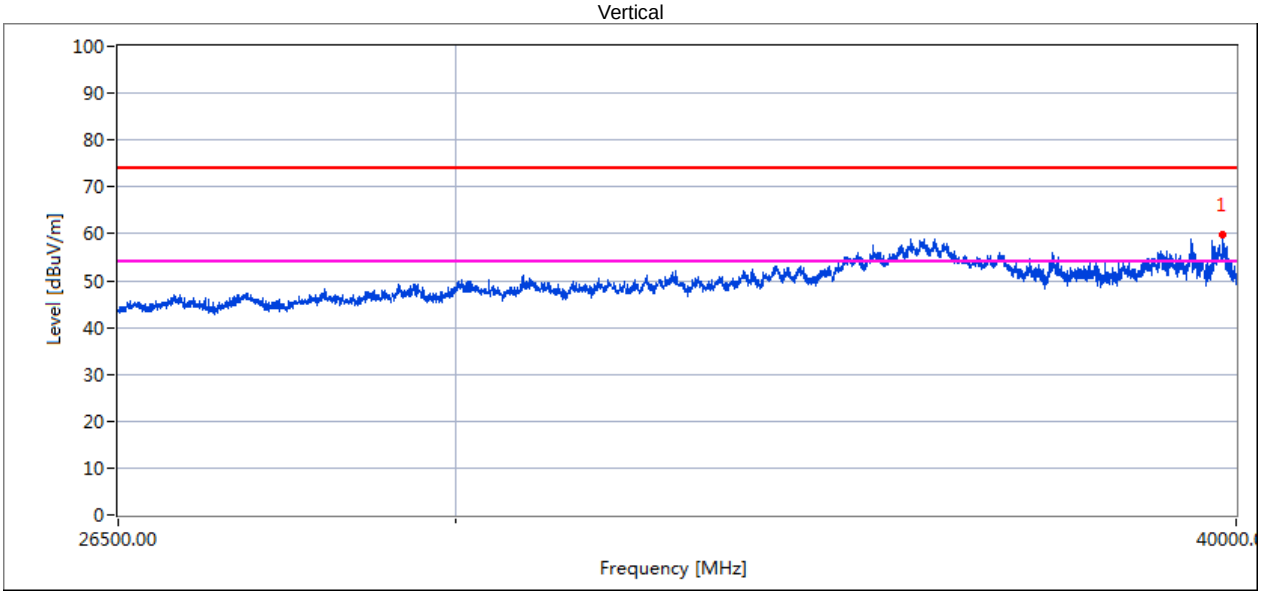
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35641.711	58.6	56.1	74.0	17.9
35641.711	44.3	43.2	54.0	10.8

Vertical

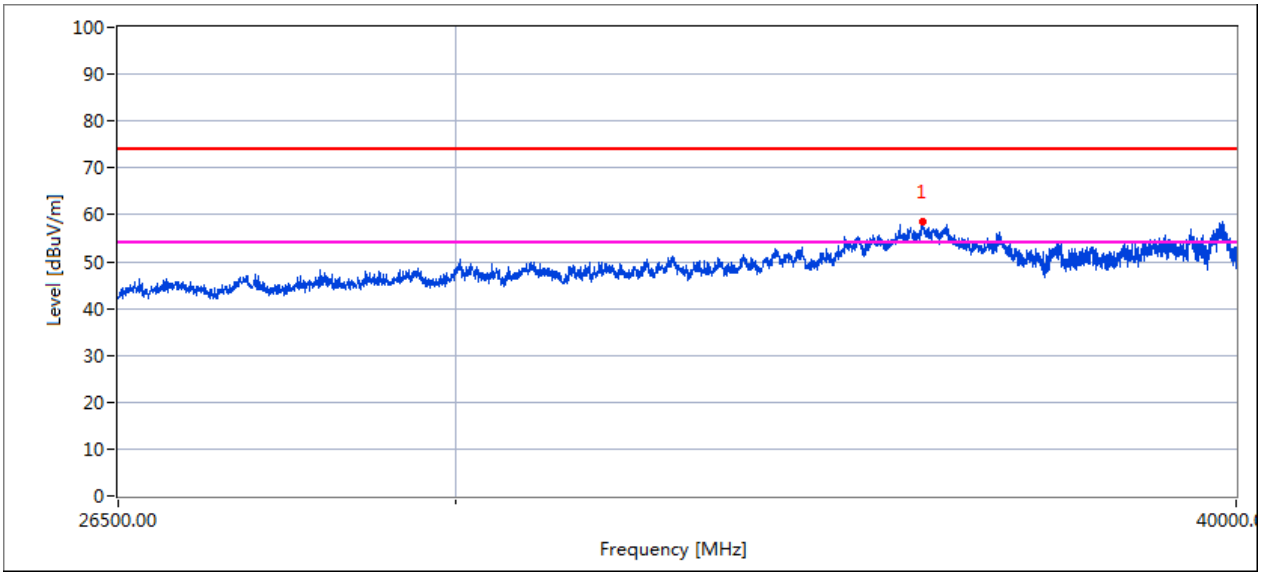


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39797.630	59.7	55.4	74.0	18.6
39797.630	44.7	43.4	54.0	10.6

Low Channel (5745 MHz)-Above 1G

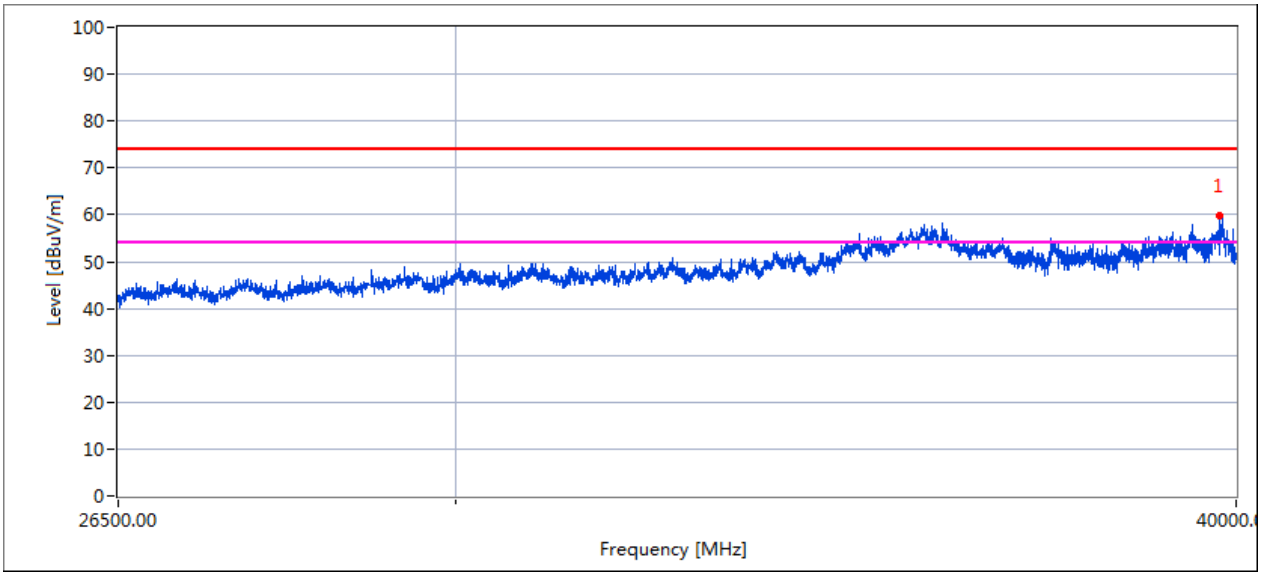
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35613.673	58.3	55.7	74.0	18.3
35613.673	43.7	42.4	54	11.6

Vertical

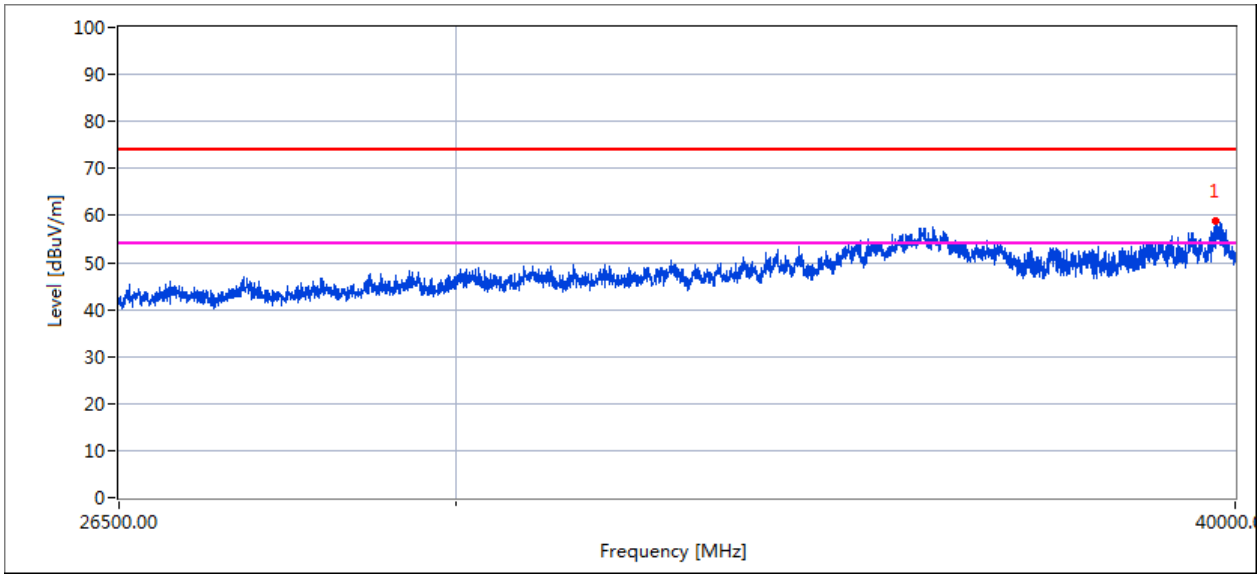


Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39753.375	59.9	57.5	74.0	16.5
39753.375	44.5	43.8	54.0	10.2

High Channel (5825 MHz)-Above 1G

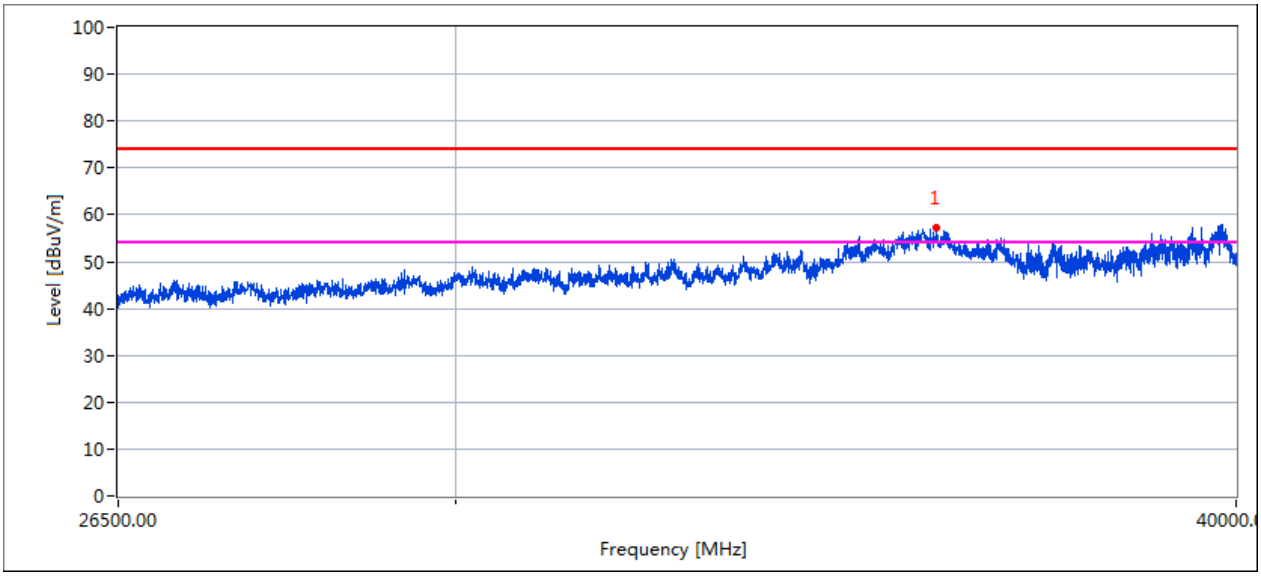
Horizontal



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
39712.914	59.0	53.0	74.0	21.0
39712.914	44.2	43.7	54.0	10.3

Vertical



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
35811.975	57.2	53.3	74.0	20.7
35811.975	43.6	43.1	54.0	10.9

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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4.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

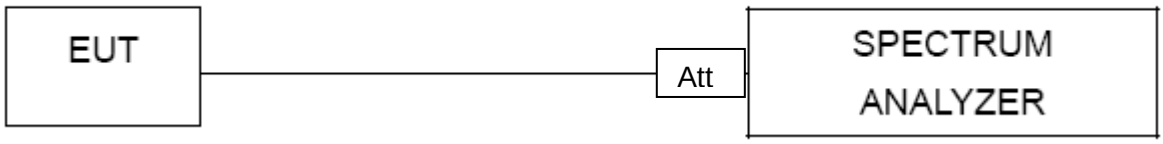
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

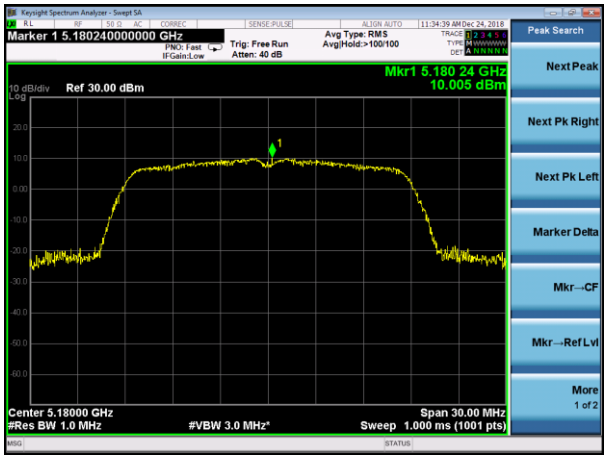
4.6 TEST RESULTS

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 1 (5150-5250MHz)		

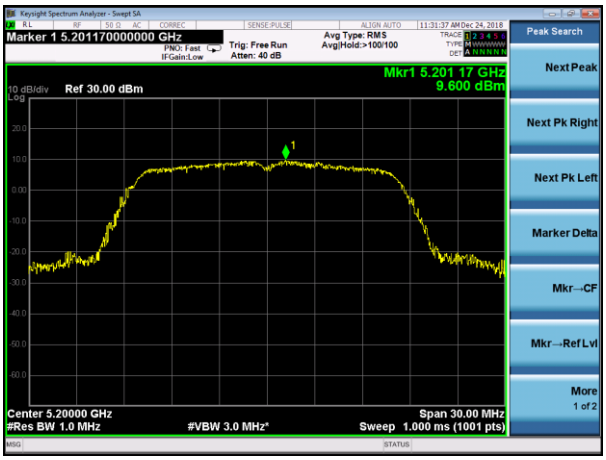
Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	9.996	11	PASS
	5200 MHz	9.600	11	PASS
	5240 MHz	10.365	11	PASS
802.11 n20	5180 MHz	10.005	11	PASS
	5200 MHz	9.433	11	PASS
	5240 MHz	9.499	11	PASS
802.11 n40	5190 MHz	6.658	11	PASS
	5230 MHz	5.815	11	PASS
802.11 ac20	5180 MHz	9.995	11	PASS
	5200 MHz	9.877	11	PASS
	5240 MHz	9.632	11	PASS
802.11 ac40	5190 MHz	6.555	11	PASS
	5230 MHz	5.942	11	PASS

(802.11a) PSD plot on channel 36

(802.11n20) PSD plot on channel 36



(802.11a) PSD plot on channel 40



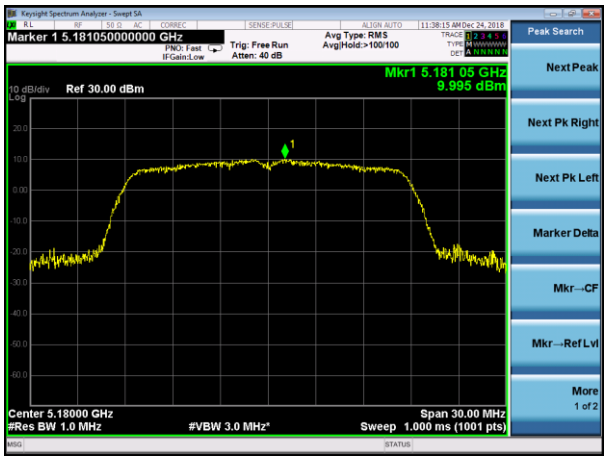
(802.11n20) PSD plot on channel 40

(802.11a) PSD plot on channel 48

(802.11n20) PSD plot on channel 48

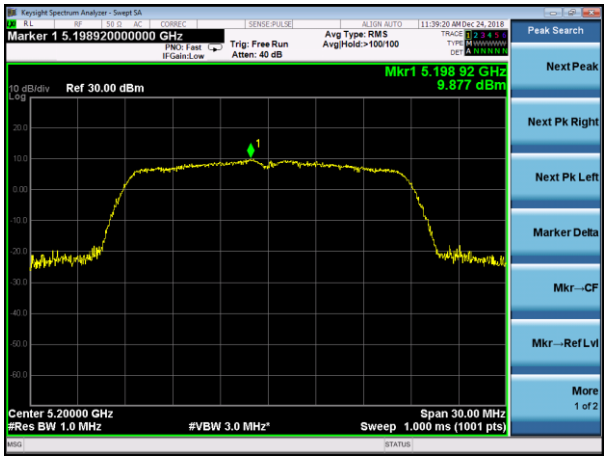
(802.11n40) PSD plot on channel 38

(802.11ac20) PSD plot on channel 36



(802.11n40) PSD plot on channel 46

(802.11ac20) PSD plot on channel 40



(802.11ac20) PSD plot on channel 48

(802.11ac40) PSD plot on channel 38

(802.11ac40) PSD plot on channel 46

EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 2A (5250-5350MHz)		

Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
802.11 a	5260 MHz	10.212	11	PASS
	5280 MHz	9.759	11	PASS
	5320 MHz	10.402	11	PASS
802.11 n20	5260 MHz	10.131	11	PASS
	5280 MHz	9.835	11	PASS
	5320 MHz	10.276	11	PASS
802.11 n40	5270 MHz	6.725	11	PASS
	5310 MHz	7.116	11	PASS
802.11 ac20	5260 MHz	10.069	11	PASS
	5280 MHz	9.941	11	PASS
	5320 MHz	9.345	11	PASS
802.11 ac40	5270 MHz	5.890	11	PASS
	5310 MHz	6.665	11	PASS

(802.11a) PSD plot on channel 52

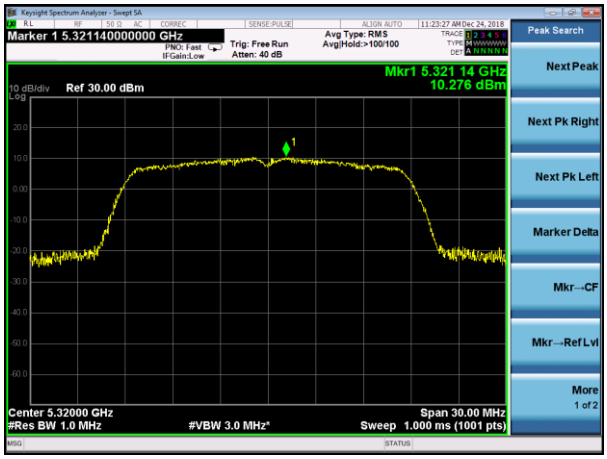
(802.11n20) PSD plot on channel 52

(802.11a) PSD plot on channel 56

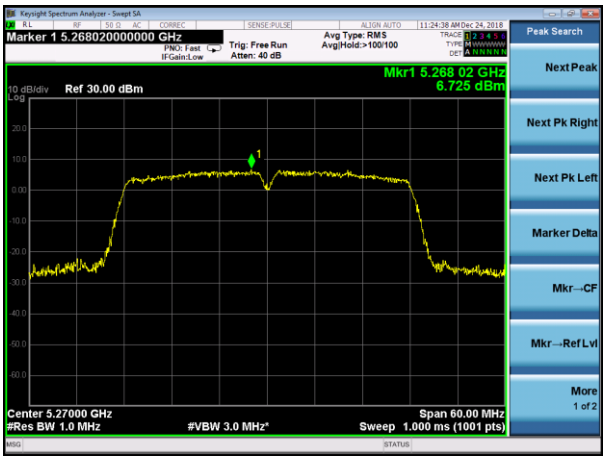
(802.11n20) PSD plot on channel 56

(802.11a) PSD plot on channel 64

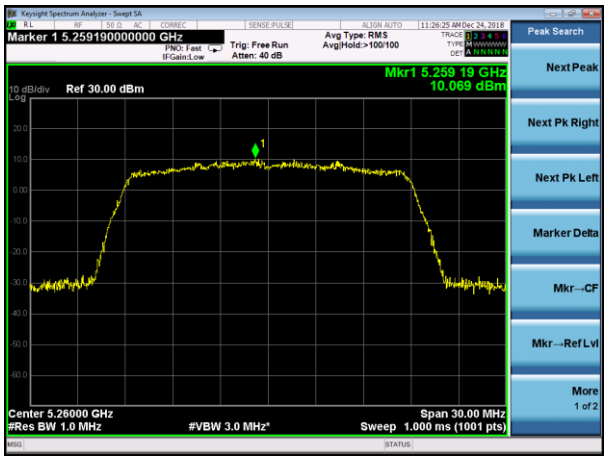
(802.11n20) PSD plot on channel 64



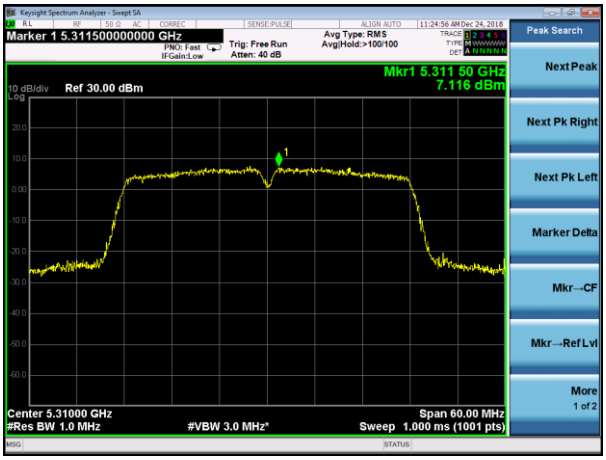
(802.11n40) PSD plot on channel 54



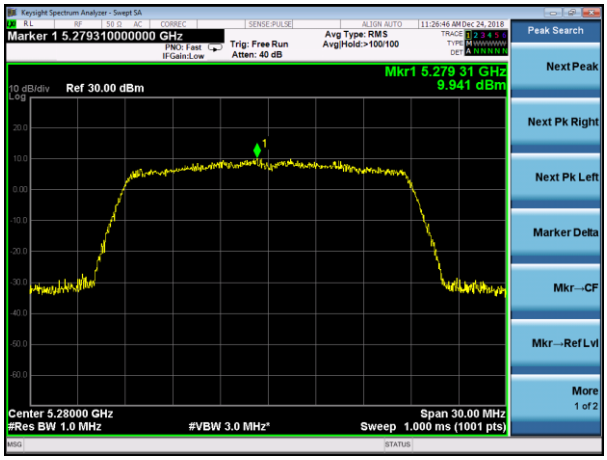
(802.11ac20) PSD plot on channel 52



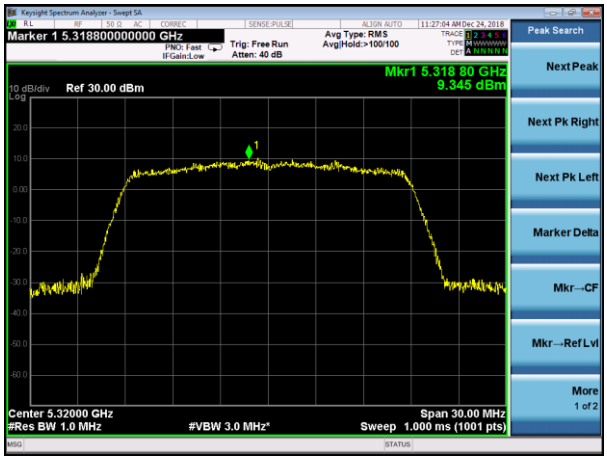
(802.11n40) PSD plot on channel 62



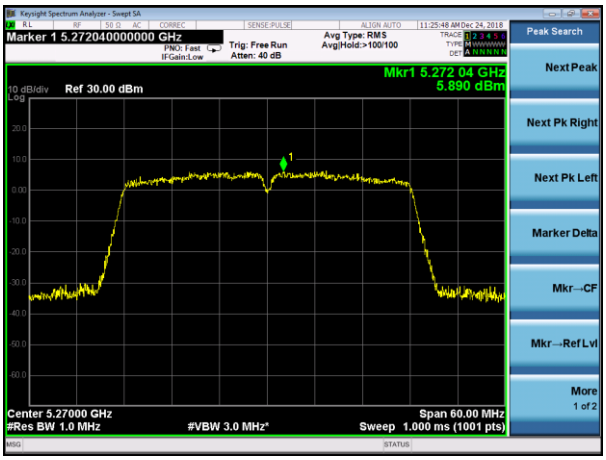
(802.11ac20) PSD plot on channel 56



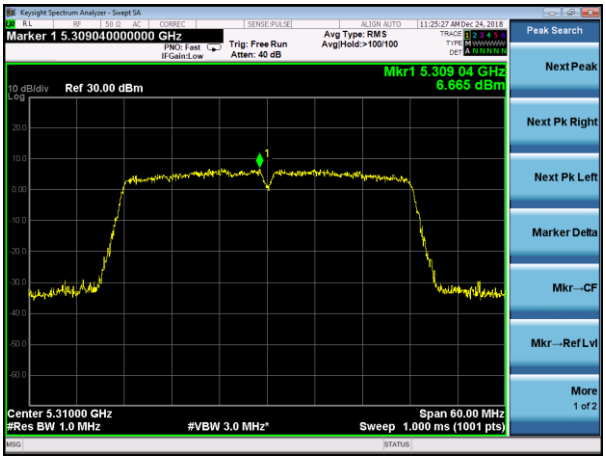
(802.11ac20) PSD plot on channel 64



(802.11ac40) PSD plot on channel 54



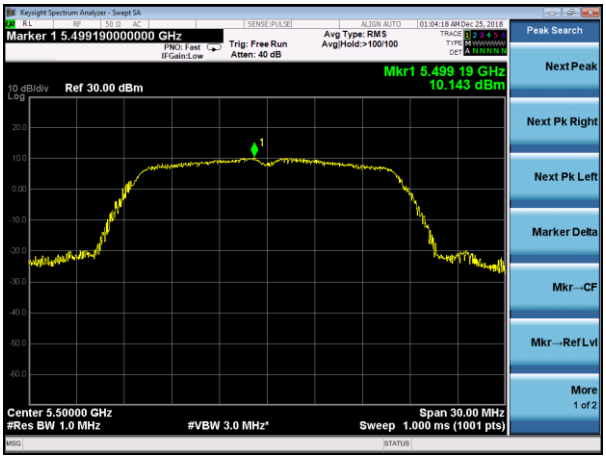
(802.11ac40) PSD plot on channel 62



EUT：	LTE SMARTPHONE	Model Name. ：	RG725
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 2C (5470-5725MHz)		

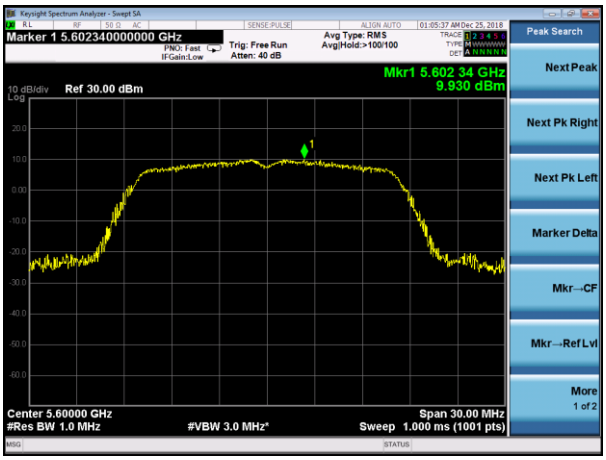
Mode	Frequency	Measured Power Density (dBm)	Limit (dBm/MHz)	Result
802.11 a	5500 MHz	10.143	11	PASS
	5600 MHz	9.930	11	PASS
	5700 MHz	9.918	11	PASS
802.11 n20	5500 MHz	9.865	11	PASS
	5600 MHz	9.399	11	PASS
	5700 MHz	10.394	11	PASS
802.11 n40	5510 MHz	7.297	11	PASS
	5590 MHz	6.395	11	PASS
	5670 MHz	6.143	11	PASS
802.11 ac20	5500 MHz	9.411	11	PASS
	5600 MHz	9.729	11	PASS
	5700 MHz	10.096	11	PASS
802.11 ac40	5510 MHz	6.220	11	PASS
	5590 MHz	6.285	11	PASS
	5670 MHz	6.143	11	PASS

(802.11a) PSD plot on channel 100

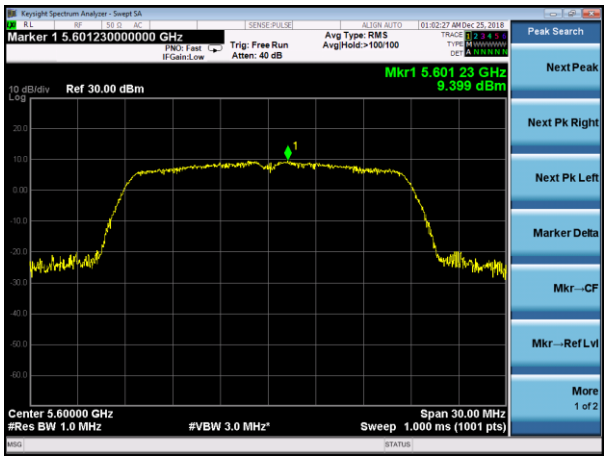


(802.11n20) PSD plot on channel 100

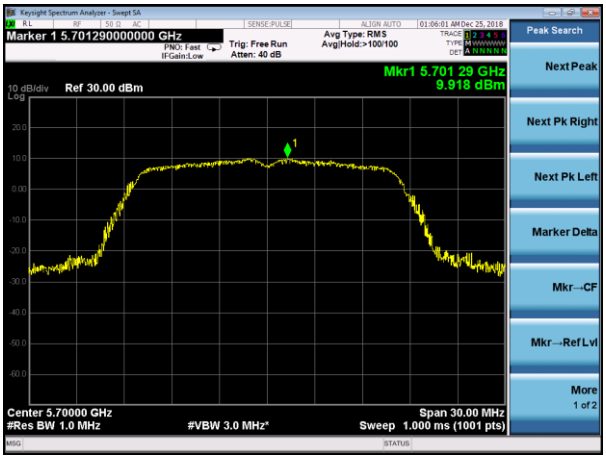
(802.11a) PSD plot on channel 120



(802.11n20) PSD plot on channel 120



(802.11a) PSD plot on channel 140



(802.11n20) PSD plot on channel 140