

MultiView 🔳	Spectrum 2	×	Spectrum 3	× Spectrun	14 X	Spectrum 5	×			•
Ref Level 30 Att PA TDF	.00 dBm Off 10 dB SV	fset 9.59 dB /T 76 m s	 RBW 1 MHz VBW 3 MHz 	Mode Auto Swe	ep				s	GL ount 100/100
1 Frequency S	weep									o1Rm Avg
Limit Che Line FCC	ck PART 30			FAIL FAIL					M1[1]	-12.35 dBm 36.583760 GHz
20 dBm										
10 dBm										
O dBm										
-10 dBm										M1
FCC PART 30										Y
-20 dBm										
							\sim	-		
-30 dBm					~~~~~					
-40 dBm										
-50 dBm										
-60 dBm										
18.0 GHz			38	001 pts		1.9 GHz,	/			37.0 GHz
	v						~	Ready [23.02.2020 19:05:16
19:05:17 23.02	2.2020									





Plot 7-332. Radiated Spurious Plot 36.574-36.594 GHz (1CC QPSK Mid Ch. Ant. TRP)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MultiView 📰 Spectrum 2 × Spectrum 3 × Spectrum 4 × Spectrum 5 Ref Level 30.00 dBm Offset 9.59 dB • RBW 1 MHz Att PA TDF 10 dB SWT 76 ms • VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep •1Rm Max Limit Check Line FCC PART 30 M1[1] -7.84 dBn 36.534260 GH M 18.0 GHz 38001 pts 37.0 GHz 1.9 GHz/ 23.02.2020 19:26:06 23.02.2020

Plot 7-333. Radiated Spurious Plot 18-37 GHz (8CC QPSK Mid Ch. Ant. Angle 135)



19:27:11 23.02.2020

Plot 7-334. Radiated Spurious Plot 18-37 GHz (8CC QPSK Mid Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 201 of 256
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MultiView 📰 Spectrum 2 × Spectrum 3 × Spectrum 4 × Spectrum 5 Ref Level 30.00 dBm Offset 9.59 dB • RBW 1 MHz Att PA TDF 10 dB SWT 76 ms • VBW 3 MHz Mode Auto Sweep Count 100/100 ●1Rm Max 1 Frequency Sweep Limit Check Line FCC PART 30 M2[1] -12.69 dBn 32.999860 GHz -7,42 dBm 36.533760 GHz 38001 pts 37.0 GHz 18.0 GHz 1.9 GHz/ 23.02.2020 19:34:49 23.02.2020

Plot 7-335. Radiated Spurious Plot 18-37 GHz (8CC QPSK Mid Ch. Ant. Angle 45)



19:35:41 23.02.2020

Plot 7-336. Radiated Spurious Plot 18-37 GHz (8CC QPSK Mid Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 202 of 256	
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Plot 7-337. Radiated Spurious Plot 36.48-36.594 GHz (8CC QPSK Mid Ch. Ant. TRP)



20:13:31 23.02.2020

Plot 7-338. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 202 of 256	
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MultiView 📰	Spectrum 2	× Spectru	um 3 🗙	Spectrum 4	× s	pectrum 5	×		•
Ref Level 30	.00 dBm Offse	et 9.59 dB ● RB¥	V 1 MHz						SGL
	10 dB SWT	76 m s 🗢 VBV	V 3 MHz Mode	Auto Sweep					Count 100/100
1 Frequency S	weep								o1Rm Avg
Limit Che	ck PART 30		FA FA	IL TI				M3[1]	-14.68 dBm
20 dBm-								MILLI	-11.22 dBm
								WILII	36 534260 GHz
10 dBm									30.334200 0112
0 dBm									
-10 dBm-								142	M1
FCC PART 30								Y	Ma
-20 d8m									/
-30 dBm					the state of the s				
-40 dBm									
-50 dBm-									
-60 dBm									
18.0 GHz			38001 nt	\$		1.9 GHz/			37.0 GHz
2 Marker Tabl	e			-		,			
Type Ref	Trc	X-Value		Y-Value		Function		Function R	esult
M1	1	36.53426 GH	z -1	1.22 dBm					
M2	1	36.91975 GH 33 00036 GH	Z -	7.52 dBm					
6191			-						23 02 2020
	×						Ready		20:14:36
20:14:37 23.02	2.2020								

Plot 7-339. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135, Final)



20:24:10 23.02.2020

Plot 7-340. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK Mid Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MultiView	Spect	rum 2	×	Spectrum 3	×	Spectrum 4	×	Spectrum 5	×			-
Ref Level	30.00 dBm	n Offse	et 9.59 dB	3 - RBW 1 M	Hz						5	GL
Att	15 dE	∃ SWT	76 m:	s o VBW 3 M	Hz Mode	Auto Sweep					c	Count 100/100
PA TDF	0											
1 Frequenc	y Sweep					T 1						O IRM AVg
Limit C	CC PART :				FA						M3[1]	-15.96 dBm
20 dBm											MILLI	-10 77 dBm
											MILI	-10.77 dBm
10 dBm												30.334200 0112
0 dBm-												
-10 dBm												M1
FCC PART 30									MB	M2		
-20 dBm												
20 0011												
-30 asm-												
-40 dBm												
-50 dBm-												
-60 dBm												
18.0 GHz					38001 pt	s		1.9 GHz	/			37.0 GHz
2 Marker Ta	able											
Type F	Ref Tro		X-V	alue		Y-Value		Funct	tion		Function R	esult
M1	1		36.534	26 GHz		0.77 dBm						
M2			32.999	86 GHZ 34 GHZ		5.64 dBm						
CIVID	_		91.20	of GHZ								
	*								~	Ready		23.02.2020

20:22:46 23.02.2020





Plot 7-342. Radiated Spurious Plot 33-37 GHz (8CC NC QPSK Mid Ch. TRP)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 205 of 256
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ACLRResult	
------------	--

MultiView 丰	Spectrum 2	× Spect	rum 3 🗙 🗙	Spectrum 4	× Sp	ectrum 5	×		•
Ref Level 38 Att PA TDF	.85 dBm Offse 10 dB SWT	t 9.59 dB ● RB 76 ms ● VB	WI1MHz WF3MHz Mod	e Auto Sweep				5 (GGL Count 100/100
1 Frequency S	Sweep								o1Rm Max
Limit Che	ck		F	AIL				M1[1]	0.06 dBm
Line FCC	PART 30			AIL					34.199820 GHz
30 dBm									
20 dBm									
10 dBm									
								M1	
0 dBm									
FCC PART 30									
						وفأصر والكفراني وال	and the second second	alianticitation provide the provide	
-20 dBm		مارينانين مارين	والمان المانية والمشار ورياده	دادر اعاد وبالعمرين عارا رد <mark>ر و</mark>	Contract of the second second	and the second second	an all and a state of the second	of the second	<u>محمد الدري بلغ من مان والله المتحمد الم</u>
المعربين المعربين والمعراف والمراجع	Antonia solitan antonia	a the state of the	And a state of the second state of the	Network Constraints of the second	Contract of the local division of the local				
South States of States									
-40 dBm-									
-50 dBm-									
18.0 GHz			38001 n	ts		1.9 GHz/			37.0 GHz
	_		- octor p				Band		23.02.2020
	Ĭ.						Read	Y	16:08:09
16:08:10 23.0	2.2020								

Plot 7-343. Radiated Spurious Plot 18-37 GHz (1CC QPSK High Ch. Ant. Angle 135)



16:08:50 23.02.2020

Plot 7-344. Radiated Spurious Plot 18-37 GHz (1CC QPSK High Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:		Dage 206 of 256		
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ACLRResult	
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MultiView 🗮	Spectrum 2	× Spect	rum 3 🛛 🗙	Spectrum 4	×	Spectrum 5	×		•
Ref Level 38 Att PA TDF	3.85 dBm Offse 14 dB SWT	t 9.59 dB ● RB 76 ms ● VB	WI1MHz NF3MHz Mode	e Auto Sweep					SGL Count 100/100
1 Frequency S	Sweep								o1Rm Max
Limit Che Line FCC	eck PART 30			ATL ATL				M1	[1] -2.64 dBm 34.199820 GHz
30 dBm									
20 dBm									
10 dBm									
0 dBm								M1	
_10 dBm									
FCC PART 30							laite ti <mark>d</mark> hianan	V ^{alit} istic asis, alkeletare, the	
-20 dBm-							and a general for the second secon	and for the second s	
Hod dBm									
-40 dBm									
-50 dBm									
-60 dBm									
18.0 GHz			38001 pt	IS		1.9 GHz,	/		37.0 GHz
	*							eady and and and and and and and and and and 	23.02.2020 16:02:39
16:02:40 23.0	2.2020								

Plot 7-345. Radiated Spurious Plot 18-37 GHz (1CC QPSK High Ch. Ant. Angle 45)



16:03:42 23.02.2020

Plot 7-346. Radiated Spurious Plot 18-37 GHz (1CC QPSK High Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST. Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	MEASUREMENT REPORT (CERTIFICATION)					
Test Report S/N:	Test Dates:	EUT Type:		Dogo 207 of 256				
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Plot 7-347. Radiated Spurious Plot 33.95-34.45 GHz (1CC QPSK High Ch. TRP)



Plot 7-348. Radiated Spurious Plot 18-37 GHz (8CC QPSK High Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 200 of 256	
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MultiView 🎫	Spectrum	2 X	Spectru	n 3	× Spectrum	4 X	Spect	rum 5	×					•
Ref Level 30 Att	.00 dBm C 10 dB S	Offset 9.59 ₩T 76 m	dB • RBW ms • VBW	1 MHz 3 MHz M	ode Auto Swee							s	GL ount 100,	/100
1 Frequency S Limit Che	weep ck				FÁIL							M1[1]	01Rm	Avg i dBm
Line FCC	PART 30												33.77133	0 GHz
20 UBM-														
10 dBm														
0 dBm														
											1	11		
-10 dBm-														
FCC PART 30														
-20 dBm									<u></u>					-
-30 dBm														
-40 dBm														
-50 dBm														
-60 dBm														
18.0 GHz		_		38001	pts		1.	.9 GH2/		D			37.0	.2020
	× I								~	Ready	шШ		19:	52:00
19:52:01 23.0	2.2020													

Plot 7-349. Radiated Spurious Plot 18-37 GHz (8CC QPSK High Ch. Ant. Angle 135, Final)



Plot 7-350. Radiated Spurious Plot 18-37 GHz (8CC QPSK High Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 200 of 256	
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MultiView 🎫	Spectrum	2 X	Spectrum 3	× Spectre	um 4 🗙	Spectrum 5	×			•
Ref Level 30 Att PA TDF	.00 dBm 0 10 dB S	ffset 9.59 d WT 76 m	B • RBW 1 MHz is • VBW 3 MHz	Mode Auto Sv	veep				s	GL ount 100/100
1 Frequency S Limit Che Line FCC	weep ck PART 30			FÁIL FAIL					M1[1]	● 1Rm Avg -6.38 dBm 33.771330 GHz
20 dBm										
0 dBm									41	
-10 dBm										
-20 dBm									<u> </u>	
-30 dBm										
-50 dBm										
-60 dBm										
18.0 GHz	×		3;	3001 pts		1.9 GHz,	/	eady		37.0 GHz
19:49:56 23.0	2.2020									19:49:55

Plot 7-351. Radiated Spurious Plot 18-37 GHz (8CC QPSK High Ch. Ant. Angle 45, Final)



Plot 7-352. Radiated Spurious Plot 33.72-33.82 GHz (8CC QPSK High Ch. TRP)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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MultiView 📑	Spectrum 2	× Spec	trum 3 🗙	Spectrum 4	× sp	ectrum 5	×		•
Ref Level 20 Att PA TDF	.00 dBm Offs 10 dB SWT	et 9.59 dB ● Ri 76 m s ● Vi	3W 1 MHz 3W 3 MHz Moo	le Auto Sweep					SGL Count 100/100
1 Frequency S Limit Che Line FCC	weep ck PART 30		F	AIL AIL				M1[1]	●1Rm Max -5.79 dBm 33.685340 GHz
10 dBm									
-10 dBm								M1 ▼	
-20 dBm	allan und annahlana	n lieber sieher Leersteinen		et y type tree of the first section of the section					ander effektive en en generalen der beste son andere en der generalen generalen.
100 dBm - 1 and									
-4U dBm									
-60 dBm									
-70 dBm									
18.0 GHz	*		38001 p	ots		1.9 GHz/		ly (37.0 GHz 23.02.2020 20:49:37
20:49:37 23.0	2.2020								

Plot 7-353. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK High Ch. Ant. Angle 135)



Plot 7-354. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK High Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	Poud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager				
Test Report S/N:	Test Dates:	EUT Type:		Dege 211 of 256			
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MultiView 昌	Spectrum	12 >	× Spectru	um 3	×	Spectrum 4	×	Spect	um 5	×			•
Ref Level 30	0.00 dBm 🕠	Offset 9.5	9 dB 🔍 RBV	V 1 MHz								s	GL
• Att	10 dB :	SWT 76	5 m s 🗢 VBV	VI3 MHz N	/lode	Auto Sweep						c	ount 100/100
1 Frequency	Sweep												o1Rm Max
Limit Che Line FCC	eck C PART 30				FA FA	IL IL						M1[1]	-5.98 dBm 33.685340 GHz
20 dBm													
10 dBm-													
0 dBm-													
												M1	
-10 dBm													
FCC PART 30									r. r.l. m. danta di	hanala a	. Le 1 at a sticked to	and a later of the later of the	e endimination from
-20 dBm	المعاطف والاطول	han di di anta ani						and taken in the light in the second s			and the second	and the second	الم ر _{الم} والمنظمة عن الله المري والشغا الم
ASC dBm	la a del materiale del	a da anta a su da a su	ann a han										
-40 dBm													
-50 UBM-													
-60 dBm													
18.0 GHz				3800	1 pt	S		1.	9 GHZ/				37.0 GHz
	×									Re	ady		20:44:17
20:44:18 23.0	2.2020												

Plot 7-355. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK High Ch. Ant. Angle 45)



Plot 7-356. Radiated Spurious Plot 18-37 GHz (8CC NC QPSK High Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 040 af 050	
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Plot 7-357. Radiated Spurious Plot 33.63-33.74 GHz (8CC NC QPSK High Ch. TRP)

Frequency [MHz]	Channel	CC Active	Mod.	Ant. Angle [degree]	Antenna Height [cm]	Turn Table Azimuth [degree]	Analyzer Level [dBm]	AFCL [dBm]	Field Strength [dBµV/m]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]	TRP [dBm]	Margin [dB]
36989.25	Low	CC0	QPSK	135	148	10	-81.62	57.57	82.96	-12.25	-13.00	0.75	22.42	0.42
36989.25	Low	CC0	QPSK	45	148	10	-80.80	57.57	83.78	-11.43	-13.00	1.57	-22.43	-9.43
36583.76	Mid	CC4	QPSK	135	148	10	-79.37	57.65	85.28	-9.93	-13.00	3.07	26.04	12.04
36583.76	Mid	CC4	QPSK	45	148	10	-81.79	57.65	82.86	-12.35	-13.00	0.65	-20.04	-13.04
34199.82	High	CC7	QPSK	135	148	10	-71.67	58.53	93.86	-1.35	-13.00	11.65	10 51	6 51
34199.82	High	CC7	QPSK	45	148	10	-74.55	58.53	90.98	-4.23	-13.00	8.77	-19.51	-0.01
36908.75	Low	CC0-CC7(C)	QPSK	135	148	10	-78.26	57.57	86.32	-8.89	-13.00	4.11	22.54	10.54
36912.25	Low	CC0-CC7(C)	QPSK	45	148	10	-78.94	57.57	85.64	-9.57	-13.00	3.43	-23.34	-10.54
36533.76	Mid	CC0-CC7(C)	QPSK	135	148	10	-79.85	57.65	84.80	-10.41	-13.00	2.59	20.27	45.07
36533.76	Mid	CC0-CC7(C)	QPSK	45	148	10	-79.18	57.65	85.47	-9.74	-13.00	3.26	-20.21	-10.27
33771.33	High	CC0-CC7(C)	QPSK	135	148	10	-76.13	58.38	89.25	-5.96	-13.00	7.04	26.22	12.22
33771.33	High	CC0-CC7(C)	QPSK	45	148	10	-76.55	58.38	88.83	-6.38	-13.00	6.62	-20.32	-13.32
36904.75	Low	CC0-CC7(NC)	QPSK	135	148	10	-83.09	57.57	81.49	-13.72	-13.00	-0.72	26.72	10 70
36853.26	Low	CC0-CC7(NC)	QPSK	45	148	10	-81.35	57.57	83.23	-11.98	-13.00	1.02	-20.75	-13.73
33000.36	Mid	CC0-CC7(NC)	QPSK	135	148	10	-84.00	57.75	80.75	-14.46	-13.00	-1.46	20.64	10.04
32999.86	Mid	CC0-CC7(NC)	QPSK	45	148	10	-85.21	57.77	79.57	-15.64	-13.00	-2.64	-29.04	-10.04
36534.26	Mid	CC0-CC7(NC)	QPSK	45	148	10	-80.21	57.65	84.44	-10.77	-13.00	2.23	07.00	44.00
36534.26	Mid	CC0-CC7(NC)	QPSK	135	148	10	-80.66	57.65	83.99	-11.22	-13.00	1.78	-21.03	-14.03
33685.34	High	CC0-CC7(NC)	QPSK	135	148	10	-78.44	58.22	86.79	-8.42	-13.00	4.58	26.91	12 01
33685.34	High	CC0-CC7(NC)	QPSK	45	148	10	-78.22	58.22	87.01	-8.20	-13.00	4.80	-20.01	-13.01

Table 7-20. Spurious Emissions (18 – 40GHz)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Spurious Emissions EIRP Sample Calculation

The raw radiated spurious level is converted to field strength in $dB\mu V/m$. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2.61 meters.

RSE EIRP [dBm] = Analyzer Level [dBm] + AFCL [dB/m] + 107 + 20Log(Dm) - 104.8 + Duty Corretion Factor

Duty Cycle Correction Factor Calculation

- \circ 1 Cycle Time = 626 µs
- \circ Tx on Time = 468 µs
- $_{\odot}$ Duty Cycle = Tx on Time / 1 Cycle Time = 468 μs / 626 μs = 0.75
- Duty cycle correction factor = 10log₁₀(1/Duty Cycle) = 10log₁₀(1/0.75) = 1.26 dB

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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7.5.4 Radiated Spurious Emissions Plots (40 – 60GHz)









20:19:51 22.02.2020

Plot 7-359. Radiated Spurious Plot 40-60 GHz (1CC QPSK Low Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 215 of 256
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MultiView 🖬 Spectrum 2 🛛 🗙	Spectrum 3 × Spe	ectrum 4 🗙		÷
Ref Level 28.35 dBm Offset 9.59 dB Att 15 dB SWT 80 ms DATDE 5 5 5	RBW 1 MHz VBW 3 MHz Mode Auto Sweep		9	SGL Count 100/100
1 Frequency Sween				o1Rm Max
Limit Check	FÁTI		M1[1]	-1.10 dBm
Line FCC PART 30	FAIL		(int[1]	42 245101 CU-
20 dBm-				42,345191 GHZ
10 dBm-				
M1				
0 dBm				
-10 dBm				
FCC PART 30	المرابقا بقراء مامير بالمرابع		المعالية بالمعالية المراجع	فأهط ويتلاب النفار ألا
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and the second life speciality of a decided by the second second	a series and the series of the	ter fahr het ster het die einen andere ster het s	a series and a series of the	
Manufacture of the state of the		The latter and the second s		
- 20 dBm				
So dom				
-40 dBm-				
-50 dBm				
-60 dBm				
-70 dBm-	10001			(0, 0, C)
40.0 GH2	40001 pts	2.0 GH2/		60.0 GH2
▼			Ready	20:12:51
20:12:51 22.02.2020				

Plot 7-360. Radiated Spurious Plot 40-60 GHz (1CC QPSK Low Ch. Ant. Angle 45)



20:15:16 22.02.2020

Plot 7-361. Radiated Spurious Plot 40-60 GHz (1CC QPSK Low Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	Poud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-362. Radiated Spurious Plot 42.11-42.61 GHz (1CC QPSK Low Ch. Ant. TRP)



Plot 7-363. Radiated Spurious Plot 40-60 GHz (8CC QPSK Low Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MultiView 🕶 🤮	Spectrum	2 X S	pectrum 3	× Spec	trum 4	×			•
Ref Level 20.00 d Att 15	lBm Offset 5dB SWT	t 9.59 dB • RBV 80 ms • VBV	V/1MHz V/3MHz Mode	e Auto Sweep				s c	GL ount 100/100
PA TDF									
1 Frequency Swee	p.				1				1Rm Avg
Limit Check	DC T		PA	SS ee				M2[1]	-20.81 dBm
LINE FOULAR	1 30							4	2.376690 GHz
10 dBm								MILI	-18,41 dBm
									19.497310 GHZ
FCC PART 30 M2				M1					
-20 dBm									
	N	and the second	~~~~~				and the second		
-30 dBm									
-40 dBm									
-60 aBm									
40.0 GHz			40001 pt	S	2	2.0 GHz/			60.0 GHz
							Ready		23.02.2020 13:56 <u>:42</u>
12-56-42 22.02.20	20								

Plot 7-364. Radiated Spurious Plot 40-60 GHz (8CC QPSK Low Ch. Ant. Angle 135, Final)



Plot 7-365. Radiated Spurious Plot 40-60 GHz (8CC QPSK Low Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MultiView	Spectrum	2 X S	Spectrum 3	× Spe	trum 4	×			÷
Ref Level 20.0 • Att	00 dBm Offse 15 dB SWT	t 9.59 dB • RB 80 ms • VB	Wr1MHz WF3MHz Mode	• Auto Sweep				s	GL Count 100/100
PA TDF									
1 Frequency Sw	veep		DA	66					• 1Rm Avg
Line ECC E	K 0 A D T 20		PA DA	55 66				M1[1]	-18.86 dBm
Line Foor				33					49.480510 GHz
10 dBm								M2[1]	-17,91 dBm
									42.369190 GHz
0 dBm									
o dom									
-10 dBm									
FCC PART 30	M2								
	X			M1					
-20 dBm-	N .			-A-M					
		and the second s				Superior and the second second	and the second	A second second	
-30 dBm						Contraction of the local division of the loc			
-40 dBm									
ro dou									
-50 dBm									
-60 dBm									
-70 dBm									
40.0 GHz			40001 pt	s		2.0 GHz/			60.0 GHz
							Ready		
									14.00.29
14:00:29 23.02.	.2020								

Plot 7-366. Radiated Spurious Plot 40-60 GHz (8CC QPSK Low Ch. Ant. Angle 45, Final)



19:52:54 29.02.2020

Plot 7-367. Radiated Spurious Plot 40-60 GHz (8CC NC QPSK Low Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 210 of 256
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Plot 7-368. Radiated Spurious Plot 40-60 GHz (8CC NC QPSK Low Ch. Ant. Angle 135, Final)



19:50:52 29.02.2020

Plot 7-369. Radiated Spurious Plot 40-60 GHz (8CC NC QPSK Low Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Daga 220 of 256		
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 220 01 356		
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Plot 7-370. Radiated Spurious Plot 40-60 GHz (8CC NC QPSK Low Ch. Ant. Angle 45, Final)



Plot 7-371. Radiated Spurious Plot 40-60 GHz (1CC QPSK Mid Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 201 of 256
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 221 01 350
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MultiView 📰 Spectrum	2 × Spectrum 3	X Spectrum 4 X		•
Ref Level 28.35 dBm Offset	t 9.59 dB 🗢 RBW 1 MHz			SGL
● Att 15 dB SWT	80 m s = VBW 3 MHz Mode A	uto Sweep		Count 100/100
PA TDF				
1 Frequency Sweep				●1Rm Avg
Limit Check	PASS			M1[1] -15.01 dBm
Line FCC PART 30	PASS			40.516240 GHz
20 dBm-				
10 000				
to uBm				
0 dBm				
o abiii				
-10_dBm				
FCC PART 30				
-20 dBm				
			and the second	
-30 aBm-				
-40 dBm-				
-50 dBm				
-60 dBm				
70.40				
40.0 GHz	40001 ptc	-206	GHz/	60 D CHz
		2.0 G		22 02 2020
~			Ready	20:43:07
20:43:08 22.02.2020				

Plot 7-372. Radiated Spurious Plot 40-60 GHz (1CC QPSK Mid Ch. Ant. Angle 135, Final)

ACLRResults									
MultiView 🚥	Spectrum	2 X S	Spectrum 3	×	Spectrum 4	×			
Ref Level 28.35	dBm Offset	t 9.59 dB 🔍 RB	W 1 MHz					e	GL
Att : PA TDF	15 dB SWT	80 ms 🗢 VB	WI3 MHz Mode	e Auto Sw	еер			C	ount 100/100
1 Frequency Swe	еер								o1Rm Max
Limit Check Line FCC PA				NIL NIL				M1[1]	-12.18 dBm 40.516240 GHz
20 dBm									
10 dBm									
0 dBm									
.M1									
-10 nsm									
HOC PART 30		الالالارية أحريقة الردال	والمتحد والإراد والمرد والمراد	ling of the second s	<u>^</u>	والمعربة أسألها والمراجع	alpente bitter storthe		الأحدية أنه يعالك من أو أن تشكر ومنتشر بعد عام الروان وأن
		and a second				Unit and the state of the local database			
-30 dBm-									
-40 dBm									
-50 dBm									
-60 dBm									
70 100									
40.0 GHz			40001 pt	's		2.0 GHz/			60.0 GHz
~							 Ready 		22.02.2020 20:48:54

20:48:54 22.02.2020

Plot 7-373. Radiated Spurious Plot 40-60 GHz (1CC QPSK Mid Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST [•] Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dage 222 of 256			
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MultiView 🔳 S	Spectrum	2 X S	pectrum 3	× Spe	ectrum 4	×			•
Ref Level 28.35 d	Bm Offset	t 9.59 dB 🔍 RBV	V 1 MHz					s	GL
 Att 15 	dB SWT	80 ms 🗢 VBV	VI3 MHz Mode	e Auto Sweep				с	ount 100/100
PA TDF									0 1 Dm Ava
Limit Check	:p		PΔ	SS				M1[1]	-15 72 dBm
Line FCC PAR	T 30		PA	SS				MILIJ	-15.72 dBm
20 dBm									0.010240 0112
10 d0m									
TO UBII									
0 dBm									
-10 d9m									
M1									
FCC PART 30									
-20 dBm									
			a service and a service of the servi					and the second s	
-30 dBm	and the second distance of the second distanc								
00 0011									
-40 dBm-									
-50 dBm									
-60 dBm									
-70 dBm-									
40.0 GHz			40001 pt	s		2.0 GHz/			60.0 GHz
*							Ready		22.02.2020
									20.30.17
20:50:18 22.02.202	20								

Plot 7-374. Radiated Spurious Plot 40-60 GHz (1CC QPSK Mid Ch. Ant. Angle 45, Final)



Plot 7-375. Radiated Spurious Plot 40-60 GHz (8CC QPSK Mid Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 202 of 256
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MultiView 🖬 Spect	trum 2 X	Spectrum 4	× Spe	ctrum 5	×			•
Ref Level 19.51 dBm Offset 9.59 dB @ RBW 1 MHz SGL • Att 10 dB SWT 80 ms @ VBW 3 MHz Mode Auto Sweep Count 100/10								
1 Frequency Sweep								o 1Rm Ava
Limit Check		F/	IL				M1[1]	-10.06 dBm
Line FCC PART 30			AIL					10,466240 GHz
10 dBm								
0 dBm								
M1								
FCC PART 30								
-20 dBm								
NOT NOT					and the second second second			
-40 dBm			<u> </u>					
-50 dBm								
-60 dBm								
-70 dBm-								
40.0 GHz		40001 pt	ts	2	2.0 GHz/			60.0 GHz
*						Ready		29.02.2020 18:28:58
18:28:58 29.02.2020								





Plot 7-377. Radiated Spurious Plot 40.506-40.526 GHz (1CC QPSK Mid Ch. Ant. TRP)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MultiView 🗄 Sr	actrum 2 X Spec	trum 4 🗙 Spec	trum 5	×			•
Doft qual 10 E1 dBr						6	
● Att 10.51 0bi	n Onisel 9.59 db ⊂ RBW 11 R SWT 80 ms © VRW 31	MHz Mode Auto Sween				s c	ount 100/100
PA TDF							
1 Frequency Sweep		E da					o1Rm Max
Limit Check	30	FAIL				M1[1]	-7.21 dBm
10 dBm-							10,466240 GHZ
0. d8m							
M1							
Y							
-10 dBm							
FCC PART 30							
-20 dBm		a Lana and Allina Conductor				ality and a street of the state	an an the difference of the second states
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-30 dBm	A STATE OF A	The second s		and a state of the local data			
-40 dBm							
-50 dBm							
oo dalii							
-60 abm-							
-70 dBm							
40.0 GHz		40001 pts	2	.0 GHz/			60.0 GHz
- 1010 G112		10001 pt3		v	Ready		DR 29.02.2020
					noody		18:21:03
18:21:04 29.02.2020	1						





18:24:01 29.02.2020

Plot 7-379. Radiated Spurious Plot 40-60 GHz (8CC QPSK Mid Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST. Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dage 225 of 256			
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit		Page 225 01 550			
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Plot 7-381. Radiated Spurious Plot 40-42 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 206 of 256
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MultiView	Spectrum	2 X S	pectrum 4	× Spe	ctrum 5	×			•
Ref Level 19.5	51 dBm Offset	t 9.59 dB 🔍 RBV	V 1 MHz					9	GL
Att pa TDF	25 dB SWT	8 ms 🗢 VBV	V 3 MHz Mode	Auto Sweep				c	ount 100/100
1 Frequency Sv	weep								o1Rm Avg
Limit Chec	k NADI 20		F/					M1[1]	-8.82 dBm
Line FCC F	PART 30								40.466130 GHz
TO OBIII									
0 dBm-									
		M1							
-10 dBm									
FCC PART 30									
-20 dBm-				٢٩ <u>٣</u> ٠٠	and the second		NASA MANANAN DAN KANAN ANG D		
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
-ro dom									
40.0 GHz			4001 pts	;	20	0.0 MHz/			42.0 GHz
							Ready		29.02.2020 20:12:00
20:12:01 29.02	.2020								

Plot 7-382. Radiated Spurious Plot 40-42 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135, Final)

MultiView Spectrum 2 X Spectrum 4 X Spectrum 5 X • Ref Level 19.51 dBm Offset 9.59 dB • RBW 1 MHz SGL SGL Count 100/100 SGL Count 100/100 SGL 101/100 SGL SGL
Ref Level 19.51 dBm Offset 9.59 dB © RBW 1 MHz SGL • Att 25 dB SWT 8 ms © VBW 3 MHz Mode Auto Sweep Count 100/100 PA TDF Ifrequency Sweep • RT Max • RT Max Limit Check FAIL M1[1] -3.34 dBm Limit Check FAIL 40.466130 GHz
• Att 25 dB SWT 8 ms • VBW 3 MHz Mode Auto Sweep Count 100/100 PA TDF • 1Rm Max • 1Rm Max • 1Rm Max Limit Check FAIL M1[1] • 3.34 dBm Limit Check FAIL 40.466130 GHz 40.466130 GHz
I Frequency Sweep • 1Rm Max Limit Check FAIL M1[1] -3.34 dBm Line FCC PART 30 FAIL 40.466130 GHz
Limit Check FAIL M1[1] -3.34 dBm Line FCC PART 30 FAIL 40.466130 GHz
Life For FAR 50 40.466130 GHz
10 dBm
D dBm M1
-10 #8m.
whe was a second and a s
-20 dBm
- 30 dBm-
-40 dBm
-50 dbm
-60 dBm
-70 dBm
40.0 GHz 4001 pts 200.0 MHz/ 42.0 GHz
- Ready Ready 29.02.2020
20:16:00

Plot 7-383. Radiated Spurious Plot 40-42 GHz (8CC NC QPSK Mid Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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MultiView 📰 Spectrum 2 × Spectrum 4 × Spectrum 5 RefLevel 19.51 dBm Offset 9.59 dB • RBW 1 MHz Att PA TDF 25 dB SWT 8 ms • VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] Limit Check Line FCC PART 30 -6.78 dBn 40.466130 GH M1 42.0 GHz 40.0 GHz 200.0 MHz/ 4001 pts 29.02.2020 20:16:17 29.02.2020





Plot 7-385. Radiated Spurious Plot 40-42 GHz (8CC NC QPSK Mid Ch. TRP)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 220 of 256	
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MultiView 🚥	Spectrum	2 X	Spectrum 4	× Spe	ctrum 5	×			•	
RefLevel 19.51 dBm Offset 9.59 dB © RBW 1 MHz SGL SGL ● Att 10 dB SWT 72 ms ● VBW 3 MHz Mode Auto Sweep Cour PATDF PATDF										
1 Frequency Sweep01Rm Max -										
Limit Check			PA	SS			MI	m	-17.13 dBm	
Line FCC P4	ART 30		PA	SS					49.480040 GHz	
10 dBm-										
0 dBm										
-10 dBm										
FCC PART 30				M1						
-20 dBm			4	<u> </u>						
Charles .		فالمعاما وراهر يربق	وأفطرت وأعريته والمطالبات أنهان	.		a service and the	والمراجع والمراجع ومعادر والمراجع	a de la company de la company	Laberta prefer particular and	
Solution of the second se		الدينية الرواجي والمرواج	and the second		and the second	ADDA PROPERTY AND ADDA	اللعنون والألق وتحمرني وحدر	لتقطاد الأستأدوي والحقاط	No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	
-30 dBm	a harden state and a state of the			ante de la teoridiente d	and the second	Average of the second s				
				and an and the second secon	and the second					
-40 dBm-										
-50 d0m										
-SU UBIII										
-60 dBm										
-70 dBm										
42.0 GHz			36001 p	ts		1.8 GHz/			60.0 GHz	
~							Ready		29.02.2020	
							nouuy		20:13:01	
20.12.02 20.02 2	000									

Plot 7-386. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135)



20:13:49 29.02.2020

Plot 7-387. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager				
Test Report S/N:	Test Dates:	EUT Type:		Dogo 220 of 256				
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 229 01 350					
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MultiView 🖬 Spectr	um 2 🗙 🗙	Spectrum 4	× Spec	trum 5	×			•		
RefLevel 19.51 dBm Of	ifset 9.59 dB 🔍 RI	3W 1 MHz					e	GL		
Att 10 dB SV PA TDF	NT 72 ms ● VI	3WF3 MHz Mode	a Auto Sweep				C	ount 100/100		
1 Frequency Sweep • 1 Rm Max										
Limit Check		PA	SS			M1	[1]	-17.93 dBm		
Line FCC PART 30		PA	.55					49.474540 GHz		
10 dBm										
0.00										
0 ubii										
-10 dBm										
FCC PART 30			M1							
-20 dBm		the contract of the second states on	<u></u>				the abi	مالىدىر بىلىل يتبارل بى		
وألبير الالافاد ومراجع والمترج والمتعاد والملاف				, <mark>rijan kastri</mark>	n Jahan kathati na kat		Alexandra and a state of the st	and the second secon		
-30 GBRITANINA ANALASIA	Man side		ale a fille a la sele	and a second state of the	and the second secon					
			فالمشمع بتعميز الأفقان بالأقر							
-40 dBm										
-SO dBm-										
-6U dBm										
-70 dBm-										
-70.000										
42.0 GHz		36001 pt	S		1.8 GHz/			60.0 GHz		
~					~	Ready		29.02.2020 20:14:20		
20-14-21 29 02 2020										

Plot 7-388. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK Mid Ch. Ant. Angle 45)



20:14:53 29.02.2020

Plot 7-389. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK Mid Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager				
Test Report S/N:	Test Dates:	EUT Type:		Dago 220 of 256				
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 230 of 356					
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MultiView 🔳	Spectrum	2 X	Spectrum 4	. ×	Spectrum	5 ×				•
Ref Level 19.5	1.dBm Offset	t 9.59 dB ● BI	3W 1 MHz						ę	GI
• Att	25 dB SWT	7.96 ms 🔍 VE	3WF3 MHz Mi	ode Auto	Sweep					Count 100/100
PA TDF										
I Frequency Sw	к			FATI					M2[1]	-R 10 dBm
Line FCC P									102[1]	41.865970 GHz
10 dBm-									M1[1]	-4.04 dBm
										40.010250 GHz
G dBm										
01										
										T T
FCC PARTER WITTER	a di Mali di Anala di A	an and the state of the state of the	With Although the	a li mula sa larak	and a state of the state	in deriver and the	، المراقية المراجية باليانية الم		densis lanas da stradigi	hand de state de la de la comita
99. d0m	and the second				a die and a second			Los cara and caracterial	dent in a transit of the sec	
-20 ubm										
-30 dBm-										
-40 dBm										
-50 dBm										
-60 dBm										
-70 dBm-										
40.01 GHz			4000	pts		199.0) MHz/			42.0 GHz
	²						~	Ready		14:03:48
14:03:49 29.02.2	2020									

Plot 7-390. Radiated Spurious Plot 40.01-42 GHz (1CC QPSK High Ch. Ant. Angle 135)

ACLRResults					
MultiView 🖶 Spectru	m 2 🗙 Spectrum 4 🛔	× Spectrum 5	×		
Ref Level 19.51 dBm Offs	et 9.59 dB = RBW 1 MHz			9	SGL
Att 25 dB SW1 PA TDF	T 7.96 m s ● VBW 3 MHz Mode	Auto Sweep		c	Count 100/100
1 Frequency Sweep					o1Rm Avg
Limit Check	FA.			M2[1]	-12.12 dBm
Line FCC PART 30	FA				41.865970 GHz
10 dBm				M1[1]	-14.30 dBm
					40.010250 GHz
0 dBm					
					M2
M1 ¹⁰ dBm					Y
FCC PART 30					
-20 dBm	ويعموه جيبونه الداف ليدنوه بالمالة الاستنفاف وألف والمحجم بمحكما الملكي الكالمهم ويوموني	^{En} sen de las <mark>Padeus des une des aix de seu de la seu</mark>	***************************************	*****	
00.40.7					
-30 dBm					
-40 dBm-					
-50 dBm					
oo abiii					
-60 dBm					
-70 dBm-					
40.01 GHz	4000 pts		199.0 MHz/		42.0 GHz
					LXI 29.02.2020
					14:12:43
14:12:44 29.02.2020					

Plot 7-391. Radiated Spurious Plot 40.01-42 GHz (1CC QPSK High Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	PCTEST. Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager					
Test Report S/N:	Test Dates:	EUT Type:	Dage 221 of 256					
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 231 of 356					
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MultiView	Spectrum	2 X S	pectrum 4	X Spe	ctrum 5	×			•
Ref Level 19.5	51 dBm Offset	t 9.59 dB 🔍 RB	W 1 MHz					s	GL
Att PA TDF	25 dB SWT	7.96 ms 🔍 VB	₩ 3 MHz Mod	e Auto Sweep				с	ount 100/100
1 Frequency Sw	veep								o1Rm Max
Limit Check Line FCC P	k PART 30		F/ F/	IL IL				M2[1]	-8.40 dBm 41.865970 GHz
M1								WI[I]	40.014230 GHz
									M2
The state of the s	والمريد ومعاليه المراسي	والمحروق ومرجعة والله المالية والمراجع	ومرودا والعار والعارين	ومراقع وأور وعماور وأرقاه	لافراض مرزويين المعطفيات	المتعالية والمتعادية المتعادية	والارتقاط والمحاصر والمتحاط والمحاو		
FCC PARKAGEMENT		and the line of a standy (see in decision)	ما لين الرونية والمالية المالية الم	and the state of the second	d al adored the disking a side of the particular is	A statistic for the statistic	A bold berte ben diating bier	A tradition of the second second	the state of the state of the state of the
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
40.01.01			1000 1		10				10.0.011-
40.01 GHZ	_		4000 pt		19	9.0 MHZ/	Deadu		42.0 GHz
						v	Reauy		13:58:25
13:58:26 29.02.	.2020								

Plot 7-392. Radiated Spurious Plot 40.01-42 GHz (1CC QPSK High Ch. Ant. Angle 45)

ACLRResults									
MultiView	Spectrum	2 X S	Spectrum 4	X Spe	ctrum 5	×			•
Ref Level 19.	51 dBm Offse	t 9.59 dB 🔍 RB	W 1 MHz					S	GL
Att PA TDF	25 dB SWT	7.96 ms 🔍 VB	WF3 MHz Mod	e Auto Sweep				c	ount 100/100
1 Frequency S	weep								o1Rm Avg
Limit Chee Line FCC	ck PART 30							M3[1]	-12.01 dBm 41.865920 GHz
10 dBm								M1[1]	-12.36 dBm 40.012240 GHz
0 dBm									
M110 dBm M2									M3
-20 dBm		ar an	andra ha ann an a	teltaaganaadoonaadooniga.chaas	در به دور وی اور در به اور و رو ^{ر رو} و رو ^{ر رو} و رو	a. 15 January 10 Angle (19 angle - 19 angle -		والمعادية	
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
40.01.015			4000		10				40.0 611
2 Marker Table	a		4000 pt		19	9.0 MH2/			42.0 GH2
Type Ref	Trc	X-Value		Y-Value		Function		Function Re	esult
M1 M2 M3		0.01224 G 0.14557 G 1.86592 G	lz - lz - lz -	L2.36 dBm L2.65 dBm L2.01 dBm					
	•					~	Ready		29.02.2020 14:00:23

14:00:24 29.02.2020

Plot 7-393. Radiated Spurious Plot 40.01-42 GHz (1CC QPSK High Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	Poud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dago 222 of 256
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Plot 7-394. Radiated Spurious Plot 40.01-42 GHz (1CC QPSK High Ch. TRP)



19:38:09 22.02.2020

Plot 7-395. Radiated Spurious Plot 42-60 GHz (1CC QPSK High Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 222 of 256	
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 255 01 556	
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MultiView 🎟 Spectrum 🔆 🗙 Spectrum 2 × Spectrum 3 Ref Level 28.35 dBm Offset 9.59 dB • RBW 1 MHz Att PA TDF 15 dB SWT 72 ms • VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep Limit Check Line FCC PART 30 -18.59 dBn PASS PASS 49.482188 GH 42.0 GHz 60.0 GHz 40001 pts 1.8 GHz/ 22.02.2020 19:38:47 Ready 19:38:48 22.02.2020

Plot 7-396. Radiated Spurious Plot 42-60 GHz (1CC QPSK High Ch. Ant. Angle 135, Final)



Plot 7-397. Radiated Spurious Plot 42-60 GHz (1CC QPSK High Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 224 of 256		
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MultiView 🚥	Spectrum	×	Spectrum 2	X	Spectrum 3	×				•
Ref Level 28.3	5 dBm Offse	t 9.58 dB 🔍	RBW 1 MHz						s	GL
 Att 	15 dB SWT	72 ms 🗢	VBW 3 MHz Mode	Auto	Sweep				с	ount 100/100
PA TDF										
1 Frequency Sw	/eep									O1Rm Avg
Limit Check	28.350 dBm		PA	SS					M1[1]	-18.22 dBm
20 dBm	YART 30		РА	55						49.487590 GHz
10 dBm-										
0 dBm										
-10 d9m										
FCC PART 30				M1						
-20 dBm				<u>/</u>						
			and the second					and the second s	and the second second second	and the second designed the second designed the second designed and the second designed and the second designed
and the second	and the second s					-	and a state of the second			
-30 dBm				. date						
-40 dBm										
-50 dBm										
-60 dBm										
-70 dBm										
42.0 GHz			40001 pt	s		1.8	3 GHz/			60.0 GHz
								Ready		22.02.2020 19:28:02
										19.20.02
19:28:03 22.02.	2020									

Plot 7-398. Radiated Spurious Plot 42-60 GHz (1CC QPSK High Ch. Ant. Angle 45, Final)



Plot 7-399. Radiated Spurious Plot 40.08-42 GHz (8CC QPSK High Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dago 225 of 256	
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 235 01 356	
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ACLRResults	
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MultiView 💶 Spectrum	12 X Spectrum 4 X	Spectrum 5 X	•
Ref Level 19.51 dBm Offse Att 25 dB SWT PA TDF	et 9.59 dB ● RBW 1 MHz 40.1 ms ● VBW 3 MHz Mode Auto S	weep	SGL Count 100/100
1 Frequency Sweep Limit Check Line FCC PART 30 10 dBm	FÁIL FÁIL		●1Rm Avg M2[1] -10.80 dBm 41.3658160 GHz M1[1] -14.07 dBm 40.1463580 GHz
-10 Min-		M2	
-30 dBm			
-50 dBm			
-70 d8m	10001 atr		12.0 CH-
19:08:15, 29:02 2020	40001 pts	192.0 MHz/	42.0 GHZ 29.02.2020 19:08:15

Plot 7-400. Radiated Spurious Plot 40.08-42 GHz (8CC QPSK High Ch. Ant. Angle 135, Final)

ACLRResults										
MultiView 🎫	Spectrum 2	×s	pectrum 4	×	Spectrum 5	×				•
Ref Level 19.5:	1 dBm Offset 9.5	59 dB 🔍 RB	🛿 1 MHz						:	GL
Att PA TDE	25 dB SWT 40.	1 ms 🗢 VBN	N/3 MHz Mod	le Auto S	weep				(ount 100/100
1 Frequency Sw	еер									o1Rm Max
Limit Check Line FCC P	ART 30		F/ F/	AIL AIL					M2[1]	-4.32 dBm 1.3660560 GHz
10 dBm									M1[1]	1.79 dBm
M1									4	0.0821360 GHz
-BARARATA CARACTERIA	statution of the second se						M2			
Constituted by an elisistic sector of the	and the state of the state	and the second					T I			
-10 dBm	Statute of the local division of the local d	a van hijden en de de Angeleren	and the state of the	dellar, ibs	I I A A A A A A A A A A A A A A A A A A	hu kina na manakalika		a sa kataku nakata	an la Juachte stud auf auf die	a deservation and statistics of the
FCC PART 30			والمراقعة والمتلافة والأوافقات الأوافعات	URAL AND AND A LOUI	ورويات ويلازه أستنظ أشريه واللباد أوجار ورا	والمارية الافتقاد والمراد	and All Man Johnson	and the second se	and the second secon	والمائل ومعاطفاته ماحتماده والأخصار
-90 dam										
-20 ubm										
-30 dBm-										
-40 dBm-										
-50 d0m										
-SU UBIII										
-60 dBm-										
-70 dBm-										
40.08 GHz			40001 p	ts		192.0 MHz,	/			42.0 GHz
~							~	Ready		29.02.2020 19:05:11
19:05:12 29.02.2	2020									

Plot 7-401. Radiated Spurious Plot 40.08-42 GHz (8CC QPSK High Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 026 of 256	
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MultiView 🖬 Spectrum 2	2 X Spectrum 4 X Spe	ctrum 5 ×	•
Ref Level 19.51 dBm Offset	9.59 dB • RBW 1 MHz		SGL
Att 25 dB SWT PA TDF	40.1 ms • VBW 3 MHz Mode Auto Sweep		Count 100/100
1 Frequency Sweep			• 1Rm Avg
Limit Check Line FCC PART 30	FÁIL FÁIL		M2[1] -8.49 dBm 41 3658640 GHz
10 dBm			M1[1] -8.95 dBm
			40.1501020 GHz
0 dBm			
M1		M2	
FCC PART 30			
-20 dBm		a second designed as a second s	
-30 dBm-			
-40 d9m-			
40 dbiir			
-50 dBm-			
-60 dBm			
-70 dBm-			
40.08 GHz	40001 pts	192.0 MHz/	42.0 GHz
*		*	Ready 29.02.2020 19:05:51
19:05:52 29.02.2020			





Plot 7-403. Radiated Spurious Plot 40.08-42 GHz (8CC QPSK High Ch. TRP)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 027 of 256
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ACLRR	esults
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MultiView 🖬 Spectrum 2 🛛 🗙	Spectrum 3 🛛 \star 🗙				•
Ref Level 28.35 dBm Offset 9.59 dB ● ● Att 15 dB SWT 72 ms ●	RBW 1 MHz VBW 3 MHz Mode Auto Sweep			SGL Count	100/100
PA TDF				ooune	100,100
1 Frequency Sweep				0	IRm Max
Limit Check	FAIL			M1[1] -1	1.94 dBm
Line FCC PART 30	FAIL			49.45	4739 GHz
20 GBM-					
10 dBm					
0 dBm					
-10 dBm-	M1				
FCC PART 30	and the set of the start of the start of the set of the set of the start of the start of the set of the set of	But is a subscription of the street in the s	udan pilan kitan kuti	and a superior of the state of the bar	
The second se	and the second		And in case of the second s		
Inde continues, to photosical differences	and a second	alling a linear			
-30 dBm-					
-40 dBm					
-50 dBm					
-60 dBm					
-60 ubm					
-70 dBm					
42.0 GHz	40001 pts	1.8 GHz/			60.0 GHz
*			Ready		22.02.2020
19:52:01 22:02:2020					

Plot 7-404. Radiated Spurious Plot 42-60 GHz (8CC QPSK High Ch. Ant. Angle 135)



19:52:37 22.02.2020

Plot 7-405. Radiated Spurious Plot 42-60 GHz (8CC QPSK High Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	Poud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dago 229 of 256			
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit		Page 236 01 356			
© 2020 PCTEST V9.0 02/01/2019							



MultiView 🖴 Spectrum 2	X Spectrum 3 🔸 X			•
Ref Level 28.35 dBm Offset 9.59 dt	B • RBW 1 MHz			SGL
● Att 15 dB SWT 72 m	s 🏽 VBW 3 MHz 🛛 Mode Auto Sweep			Count 100/100
PA TDF				e i Des Mau
Limit Check	EÁTI		M1	-12 21 dBm
Line FCC PART 30				49.374641 GHz
20 dBm-				
10 dBm-				
U dBm				
-10 dBm	M1			
FCC PART 30	المتعدية والمتحد والمتحد والمتحد المتحد المتحد والمتحد والمتح والمتحد والمتح والم		or diama ta	أنفطه ووجيالك أوطيا أفريتهم وتبتع وتعر
-20.dBm - to a short to block with which the short of the	and the state of the	the standard and the second standard standard standard standard standard standard standard standard standard s		أطلعه بدريستكري ومكره وطرق وتكرين
	all the second free parts	I The part of the second s	A REAL PROPERTY AND A REAL	
	a data makan karakan karakan di pada pada barakan karakan data pada pada pada pada pada pada pada	State of the second sec		
-30 dBm				
-40 dBm-				
-50 d0m				
30 4811				
-60 dBm				
-70 dBm				
42.0 GHz	40001 pts	1.8 GHz/		60.0 GHz
~			Ready	22.02.2020 19:53:21
19:53:22 22.02.2020				

Plot 7-406. Radiated Spurious Plot 42-60 GHz (8CC QPSK High Ch. Ant. Angle 45)



19:53:54 22.02.2020

Plot 7-407. Radiated Spurious Plot 42-60 GHz (8CC QPSK High Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dage 220 of 256			
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit		Page 239 01 350			
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MultiView 📰 Spectrum 2 🛛 🗙	Spectrum 4 X Spe	ectrum 5 X		•
Ref Level 19.51 dBm Offset 9.59 dB	RBW 1 MHz			SGL
● Att 25 dB SWT 7.68 m s ¶	VBW 3 MHz Mode Auto Sweep			Count 100/100
PA TDF				
1 Frequency Sweep				o1Rm Max
Limit Check	FAIL		M2[1]	-6.44 dBm
Line FCC PART 30	FAIL			41.266020 GHz
10 dBm-			M1[1]	-4.93 dBm
				40.155100 GHz
0.00				
M1		142		
tetas to chathan a later i		₩2 ▼		
A PARAMENTAL DESCRIPTION OF THE	مى يولى المارية المانية من المارية عن من المارية المارية المارية المارية المارية المارية المارية الم	at the second		
	A CONTRACT OF	أرجها والقراء والمتعاد والمطلوق والتجريح المطلوسة بالاستقاد	فرجيهم أنتأرك وأخورا ومنتجع اعجروها بتعريب أترامته وأخر	and the state of the
FCC PART 30		and a fully a subscription on the	a second in the second second of the second s	Number of the other of the second second
-20 dBm-				
-30 dBm-				
-40 d8m				
40 dbiii				
-50 dBm				
-60 dBm				
70 40				
-70 UBII				
40.08 GHz	4001 pts	192.0 MHz/	_	42.0 GHz
			Peady	29.02.2020
			. Reday	21:01:00

Plot 7-408. Radiated Spurious Plot 40.08-42 GHz (8CC NC QPSK High Ch. Ant. Angle 135)



Plot 7-409. Radiated Spurious Plot 40.08-42 GHz (8CC NC QPSK High Ch. Ant. Angle 135, Final)

FCC ID: A3LAT1K02-A00	PCTEST. Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager				
Test Report S/N:	Test Dates:	EUT Type:	Daga 240 of 256				
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit	Page 240 01 356				
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MultiView 📰 Spectrum 2 × Spectrum 4 × Spectrum 5 RefLevel 19.51 dBm Offset 9.59 dB • RBW 1 MHz Att PA TDF 25 dB SWT 7.68 ms • VBW 3 MHz Mode Auto Sweep Count 100/100 01Rm Max 1 Frequency Sweep Limit Check Line FCC PART 30 M2[1] -7.06 dBn 41.266020 GHz -0.39 dBn 40.133030 GHz citio. 40.08 GHz 192.0 MHz/ 42.0 GHz 4001 pts 29.02.2020 21:03:10 29.02.2020

Plot 7-410. Radiated Spurious Plot 40.08-42 GHz (8CC NC QPSK High Ch. Ant. Angle 45)



Plot 7-411. Radiated Spurious Plot 40.08-42 GHz (8CC NC QPSK High Ch. Ant. Angle 45, Final)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dago 241 of 256			
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit		Page 241 01 350			
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Plot 7-412. Radiated Spurious Plot 40.08-42 GHz (8CC NC QPSK High Ch. TRP)



19:50:22 22.02.2020

Plot 7-413. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK High Ch. Ant. Angle 135)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 242 of 256
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ACLRResult	5
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MultiView	Spectrum	n X	Spectrum 2	×	Spectr	um 3	×				•
Ref Level 28.	35 dBm Offs	et 9.58 dB 🔍	RBW 1 MHz							s	GL
Att PA TDF	15 dB SW1	Г 72 m s ●	VBW 3 MHz Mod	le Auto) Sweep					с	ount 100/100
1 Frequency Sv	weep										•1Rm Avg
Limit Cheo	28.350 dBm		P	ASS						M1[1]	-18.57 dBm
Line FCC	PART 30		P	ASS						4	19.489840 GHz
10 dBm											
0 dBm											
				7							
-20 dBm-			a more thank	/							and the second data second
	man and a second					C. Martin		-	and a second		
-30 dBm											
-40 dBm-											
-60 dBm											
42.0 GHz			40001	ots			1.8	GHz/			60.0 GHz
								~	Ready		22.02.2020 19:1 <u>6:24</u>

19:16:24 22.02.2020

Plot 7-414. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK High Ch. Ant. Angle 135, Final)



Plot 7-415. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK High Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dago 242 of 256			
8K19110701-01.A3L	02/18/2020-03/06/2020	5G Access Unit		Page 243 01 350			
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MultiView 🚥	Spectrum	×	Spectrum 2	X	Spectrum 3	×			•
Ref Level 28.3	5 dBm Offse	t 9.58 dB 🔍	RBW 1 MHz					S	GL
 Att 	15 dB SWT	72 ms 🗢	VBW 3 MHz Mode	Auto	Sweep			c	ount 100/100
PA TDF									
1 Frequency Sw	/eep								O1Rm Avg
Limit Check	28.350 dBm		PA	SS				M1[1]	-18.69 dBm
20 dBm	ART 30		РА	55					49.488490 GHz
10 dBm-									
0.40									
o usm									
-10 dBm									
FCC PART 30									
				M1					
-20 dBm				1					
N .	المسينة والمستنفسات	\sim				and the second diversion of the second diversion of the second diversion of the second diversion of the second	and the second		
-30 dBm					and the second diversion of the second diversion of the second diversion of the second diversion of the second				
000000									
-40 dBm									
10 IO									
-50 UBM									
-60 dBm									
-70 dBm									
42.0 GHz			40001 pt	s		1.8 GHz/			60.0 GHz
	~						- Ready		22.02.2020
									19:17:52
19:17:53 22.02.	2020								

Plot 7-416. Radiated Spurious Plot 42-60 GHz (8CC NC QPSK High Ch. Ant. Angle 45, Final)

Frequency [MHz]	Channel	CC Active	Mod.	Ant. Pol. [degree]	Antenna Height [cm]	Turn Table Azimuth [degree]	Analyzer Level [dBm]	AFCL [dBm]	Field Strength [dBµV/m]	RSE EIRP [dBm]	Limit [dBm]	Margin [dB]	TRP [dBm]	Margin [dB]
42314.19	Low	CC0	QPSK	135	148	10	-62.57	45.55	89.98	-5.23	-13.00	7.77	24.10	11 10
42336.19	Low	CC0	QPSK	45	154	10	-65.06	45.55	87.49	-7.72	-13.00	5.28	-24.10	-11.10
40516.24	Mid	CC4	QPSK	135	147	11	-72.15	45.35	80.20	-15.01	-13.00	-2.01	24.05	11.05
40516.24	Mid	CC4	QPSK	45	154	11	-72.86	45.35	79.49	-15.72	-13.00	-2.72	-24.00	-11.05
40010.25	High	CC7	QPSK	135	149	10	-71.44	45.35	80.91	-14.30	-13.00	-1.30	22.20	10.20
40012.24	High	CC7	QPSK	45	155	10	-69.50	45.35	82.85	-12.36	-13.00	0.64	-23.30	-10.30
40145.57	High	CC7	QPSK	45	155	10	-69.79	45.35	82.56	-12.65	-13.00	0.35	-26.60	-13.60
41865.97	High	CC7	QPSK	135	146	10	-69.36	45.45	83.09	-12.12	-13.00	0.88	26.16	12.16
41865.92	High	CC7	QPSK	45	155	10	-69.25	45.45	83.20	-12.01	-13.00	0.99	-20.10	-13.10
42376.69	Low	CC0-CC7(C)	QPSK	135	148	10	-78.15	45.55	74.40	-20.81	-13.00	-7.81		
42369.19	Low	CC0-CC7(C)	QPSK	45	154	9	-75.25	45.55	77.30	-17.91	-13.00	-4.91		
40466.24	Mid	CC0-CC7(C)	QPSK	135	148	11	-67.20	45.35	85.15	-10.06	-13.00	2.94	00 FF	10.55
40466.24	Mid	CC0-CC7(C)	QPSK	45	154	10	-66.14	45.35	86.21	-9.00	-13.00	4.00	-23.55	-10.55
40146.35	High	CC0-CC7(C)	QPSK	135	148	10	-71.21	45.35	81.14	-14.07	-13.00	-1.07	25.46	12.46
40150.10	High	CC0-CC7(C)	QPSK	45	155	10	-66.09	45.35	86.26	-8.95	-13.00	4.05	-23.40	-12.40
41365.81	High	CC0-CC7(C)	QPSK	135	148	10	-68.04	45.45	84.41	-10.80	-13.00	2.20	25.84	12.84
41365.86	High	CC0-CC7(C)	QPSK	45	155	10	-65.73	45.45	86.72	-8.49	-13.00	4.51	-23.04	-12.04
42393.19	Low	CC0-CC7(NC)	QPSK	135	148	10	-79.05	45.55	73.50	-21.71	-13.00	-8.71		
42515.19	Low	CC0-CC7(NC)	QPSK	45	153	10	-77.25	45.55	75.30	-19.91	-13.00	-6.91		
40466.13	Mid	CC0-CC7(NC)	QPSK	135	148	10	-65.96	45.35	86.39	-8.82	-13.00	4.18	22.17	10.17
40466.13	Mid	CC0-CC7(NC)	QPSK	45	154	10	-63.92	45.35	88.43	-6.78	-13.00	6.22	-23.17	-10.17
40339.38	High	CC0-CC7(NC)	QPSK	135	146	11	-69.13	45.35	83.22	-11.99	-13.00	1.01	26.14	13 14
40134.95	High	CC0-CC7(NC)	QPSK	45	155	11	-68.73	45.35	83.62	-11.59	-13.00	1.41	-26.14	-13.14
41266.02	High	CC0-CC7(NC)	QPSK	135	146	11	-67.05	45.45	85.40	-9.81	-13.00	3.19	25.13	12 13
41266.02	High	CC0-CC7(NC)	QPSK	45	155	11	-64.81	45.45	87.64	-7.57	-13.00	5.43	-20.10	-12.13

Table 7-21. Spurious Emissions (40 – 60GHz)

FCC ID: A3LAT1K02-A00	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 244 of 256
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Spurious Emissions EIRP Sample Calculation

The raw radiated spurious level is converted to field strength in $dB\mu V/m$. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 2.61 meters.

RSE EIRP [dBm] = Analyzer Level [dBm] + AFCL [dB/m] + 107 + 20Log(Dm) - 104.8 + Duty Corretion Factor

Duty Cycle Correction Factor Calculation

- \circ 1 Cycle Time = 626 µs
- \circ Tx on Time = 468 µs
- \circ Duty Cycle = Tx on Time / 1 Cycle Time = 468 µs / 626 µs = 0.75
 - Duty cycle correction factor = 10log₁₀(1/Duty Cycle) = 10log₁₀(1/0.75) = 1.26 dB

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 245 of 256
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7.5.5 Radiated Spurious Emissions Plots (60 – 90GHz)



Plot 7-417. Radiated Spurious Plot 60-90 GHz (1CC QPSK Low Ch. Ant. Angle 135)



Plot 7-418. Radiated Spurious Plot 60-90 GHz (1CC QPSK Low Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Key	/sight Spec	trum Analyzer	r - Swept SA									
l,XI RI	LTE	XT MIXER	SIG ID	CORREC	SEN		Avg Type	: RMS	01:03:57 P	M Feb 28, 2020	F	requency
10 dE	3/div	Ref Offse Ref 0.00	NFE t 9.59 dB 0 dBm	PNO: Fast +	#Atten: 1	0 dB	Avginoid	Mki	r1 89.39 -38.7	6 0 GHz 14 dBm		Auto Tune
-10.0										DL1 -13.00 dBm	(75.00	Center Freq 0000000 GHz
-20.0 -30.0										<u> 1</u>	60.00	Start Freq 0000000 GHz
-40.0 -50.0											90.00	Stop Freq 0000000 GHz
-60.0 -70.0											3.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0												Freq Offset 0 Hz
-90.0												Scale Type
Star #Res	t 60.00 s BW 1	GHz .0 MHz		#VBW	3.0 MHz	*	s	weep 40	Stop 9 0.00 ms (6	0.00 GHz 0001 pts)	Log	Lin
MSG								STATU	s			

Plot 7-419. Radiated Spurious Plot 60-90 GHz (8CC QPSK Low Ch. Ant. Angle 135)



Plot 7-420. Radiated Spurious Plot 60-90 GHz (8CC QPSK Low Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Sw	vept SA				
XVIRLT EXTMIXER SI	IG ID CORREC	SENSE:INT	Avg Type: RMS	03:11:57 PM Feb 28, 2020 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 9. 10 dB/div Ref 0.00 dl	NFE PNO: Fast ↔ IFGain:Low 59 dB BM	#Atten: 10 dB	Avginola: 100/100	1 89.372 0 GHz -38.812 dBm	Auto Tune
-10.0				DL1 -13.00 dBm	Center Freq 75.00000000 GHz
-20.0					Start Freq 60.00000000 GHz
-40.0					Stop Freq 90.000000000 GHz
-60.0					CF Step 3.00000000 GHz <u>Auto</u> Man
-80.0					Freq Offset 0 Hz
-90.0					Scale Type
Start 60.00 GHz	#\/B\A	(30 MHz*	Sweep 40	Stop 90.00 GHz	Log <u>Lin</u>
MSG	#050	-3.0 WI12	Sweep 40	too ms (cooo r pts)	

Plot 7-421. Radiated Spurious Plot 60-90 GHz (8CC NC QPSK Low Ch. Ant. Angle 135)



Plot 7-422. Radiated Spurious Plot 60-90 GHz (8CC NC QPSK Low Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Keysight Spectrum Analyzer - F	CC Part30 mr	nWave Limit								
LXI RLT EXTMIXER	SIG ID	CORREC	SEN	NSE:INT		RMS	12:15:38 PI TRAC	4 Feb 28, 2020	F	requency
	NFE	PNO: Fast ++ IFGain:Low	Trig: Free #Atten: 1	e Run 0 dB	Avg Hold:	100/100	TYF De			Auto Turo
Ref Offset 9 10 dB/div Ref 0.00 d	.59 dB 1 Bm					Mkr	1 89.392	2 0 GHz 02 dBm		Auto Tune
-10.0								DL1 -13.00 dBm	(75.00	Center Freq 0000000 GHz
-20.0									60.00	Start Freq
-40.0										Stop Freq
-50.0									90.00	CF Step
-70.0									3.00 <u>Auto</u>	0000000 GHz Man
-80.0										
-90.0										Scale Type
Start 60.00 GHz		#\/B\M	3 0 MH=	*	_	woon 40	Stop 9	0.00 GHz	Log	Lin
MSG		# V D V V	5.0 10112		3	STATUS	si s	ooo r pisj	_	

Plot 7-423. Radiated Spurious Plot 60-90 GHz (1CC QPSK Mid Ch. Ant. Angle 135)



Plot 7-424. Radiated Spurious Plot 60-90 GHz (1CC QPSK Mid Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 040 af 050	
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🔐 Ke	ysight Spec	trum Analyze	r - Swept SA									
L <mark>XI</mark> R	LT E	XT MIXER	SIG ID	CORREC	SEI			: RMS	02:32:18 PI TRAC	MFeb 28, 2020	F	requency
10 dl	B/div	Ref Offse Ref 0.0	NFE et 9.59 dB 0 dBm	PNO: Fast ↔ IFGain:Low	#Atten: 1	0 dB	Avginoid	Mkr	1 89.36 -38.7	9 0 GHz 86 dBm		Auto Tune
-10.0										DL1 -13.00 dBm	(75.00	Center Freq 0000000 GHz
-20.0 -30.0											60.00	Start Freq 0000000 GHz
-40.0 -50.0											90.00	Stop Freq 0000000 GHz
-60.0											3.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0												Freq Offset 0 Hz
-90.0												Scale Type
Star #Re	t 60.00 s BW ′	GHz I.0 MHz		#VBV	V 3.0 MHz	*	s	weep 40	Stop 9).00 ms (6	0.00 GHz 0001 pt <u>s</u>)	Log	Lin
MSG								STATUS	S			

Plot 7-425. Radiated Spurious Plot 60-90 GHz (8CC QPSK Mid Ch. Ant. Angle 135)



Plot 7-426. Radiated Spurious Plot 60-90 GHz (8CC QPSK Mid Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Spectrum Analyzer - Swept SA 👘 🔄 📧												
l xi R	LT	EXT MIXER	SIG ID	CORREC	SEI	VSE:INT	Avg Type	RMS	03:11:57 PI TRAC	M Feb 28, 2020 E 1 2 3 4 5 6	Fi	requency
			NFE	PNO: Fast ++ IFGain:Low	#Atten: 1	e Run 0 dB	Avg Hold	: 100/100	DE			
10 di Log	3/div	Ref Offse Ref 0.0	et 9.59 dB 0 dBm					Mk	r1 89.37 -38.8	2 0 GHz 12 dBm		Autorune
40.0						Ĭ					(Center Freq
-10.0										DL1 -13.00 dBm	75.00	0000000 GHz
-20.0												Start Freq
-30.0											60.00	0000000 GHz
-40.0												Stop Fred
50.0											90.00	0000000 GHz
-50.0												CE Stop
-60.0											3.00 Auto	0000000 GHz Man
-70.0											<u>Auto</u>	Mari
-80.0												Freq Offset
00.0												UHZ
-50.0												Scale Type
Star	t 60.0) GHz			· · · · ·				Stop 9	0.00 GHz	Log	Lin
#Re	s BW	1.0 MHz		#VBV	/ 3.0 MHz	*	S	weep 4	0.00 ms (6	0001 pts)		
MSG								STATU	JS			

Plot 7-427. Radiated Spurious Plot 60-90 GHz (8CC NC QPSK Mid Ch. Ant. Angle 135)



Plot 7-428. Radiated Spurious Plot 60-90 GHz (8CC NC QPSK Mid Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		
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aaa Ke	🔤 Keysight Spectrum Analyzer - Swept SA 📃 🔂 📧											
L <mark>XI</mark> R	LT	EXT MIXER	SIG ID	CORREC	SEI	NSE:INT	Avg Type	: RMS	12:46:29 PI TRAC	M Feb 28, 2020	F	requency
10 dl	B/div	Ref Offs Ref 0.0	NFE et 9.59 dB 0 dBm	PNO: Fast ↔ IFGain:Low	#Atten: 1	0 dB	Avginoid	Mk	r1 89.35 -38.8	5 0 GHz 03 dBm		Auto Tune
-10.0										DL1 -13.00 dBm	(75.00	Center Freq 0000000 GHz
-20.0 -30.0											60.00	Start Freq 0000000 GHz
-40.0 -50.0											90.00	Stop Freq 0000000 GHz
-60.0											3.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0												Freq Offset 0 Hz
-90.0												Scale Type
Star	t 60.0	0 GHz							Stop 9	0.00 GHz	Log	Lin
#Re	SBW	1.0 WHZ		#VBV	V 3.0 WHZ	* 	s	weep 4	0.00 ms (6	0001 pts)		
MSG								STATU	JS			

Plot 7-429. Radiated Spurious Plot 60-90 GHz (1CC QPSK High Ch. Ant. Angle 135)



Plot 7-430. Radiated Spurious Plot 60-90 GHz (1CC QPSK High Ch. Ant. Angle 45)

FCC ID: A3LAT1K02-A00	PCTEST Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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