

UK Cellular Frequency Allocations

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	Channel Numbers		Use	Comments
	From	To or Frequency		
GSM900				
O2	0	0		
VF	1	23		Replaced by UMTS ARFCN 2987
O2	23	61		Replaced by UMTS ARFCN 3012 - ARFCN 49-61 still in use for GSM
VF	61	100		Replaced by LTE EARFCN 3698 - ARFCN 82-100 still in use for GSM
O2	100	124		
VF (E-GSM)	975	999		Replaced by UMTS ARFCN 2938
O2 (E-GSM)	1000	1023		Replaced by UMTS ARFCN 2963
GSM1800				
O2	512	540		Replaced by LTE EARFCN 1226
VF	541	569		Replaced by LTE EARFCN 1288
H3G	570	644		channels 570-644 divested to H3G for LTE1800 services
EE (T-Mobile)	645	719		Replaced by LTE EARFCN 1617/1667 - ARFCN 645-694 in use for GSM
EE (Orange)	720	869		Replaced by LTE EARFCN 1667/1811 - ARFCN 842-869 in use for GSM
UMTS900				
VF	2938		HSPA	
	2987		HSPA	
O2	2963		HSPA	
	3012		HSPA	
UMTS2100				
H3G	10564	2112.8	Voice/HSPA	
	10588	2117.6	HSPA	Replaced by LTE EARFCN 99
	10612	2122.4	HSPA	Replaced by LTE EARFCN 99
O2	10637	2127.4	Voice/HSPA	Replaced by LTE EARFCN 199 (174 used during refarm)
	10661	2132.2	HSPA	Replaced by LTE EARFCN 199 (223 used during refarm)
VF	10687	2137.4	Sure Signal femtocells	Replaced by LTE EARFCN 323 (299 used during refarm)
	10712	2142.4	Voice/HSPA	Replaced by LTE EARFCN 323 (299/347 used during refarm)

	10736	2147.2	HSPA	Replaced by LTE EARFCN 323 (347/372 used during refarm)
EE (T-Mobile)	10761	2152.2	Voice	
	10786	2157.2	HSPA	Replaced by LTE EARFCN 522
EE (Orange)	10811	2162.2	Voice	Replaced by LTE EARFCN 522 (547 used during refarm)
	10836	2167.2	HSPA	Replaced by LTE EARFCN 522 (547 used during refarm)
LTE800	Band 20			
H3G	6175	793.5	5MHz channel	
EE	6225	798.5	5MHz channel	
VF	6300	806.0	10MHz channel	
O2	6400	816.0	10MHz channel	
LTE900	Band 08			
O2				not observed
VF	3698	949.8	5MHz channel	
LTE1500	Band 32			Supplementary Downlink band
VF	10020	1462.0	20MHz	Downlink Only
H3G	10220	1482.0	20MHz	Downlink Only
LTE1800	Band 03			
O2	1226	1807.6	5MHz channel	
	1228	1807.8	5MHz channel	used for small cells, offset from macrocell channel (1226)
VF	1288	1813.8	5MHz channel	
H3G	1392	1824.2	15MHz channel	
EE	1667	1851.7	20MHz channel	
	1808	1865.8	10MHz channel	used for small cells, offset from 1811
	1811	1866.1	10MHz channel	
LTE2100	Band 01			
H3G	99	2119.9	10MHz channel	replaces UMTS 10588 & 10612
O2	199	2129.9	10MHz channel	replaces UMTS 10637 & 10661
VF	323	2142.3	15MHz channel	replaces UMTS 10687, 10712 & 10736
	299	2139.9	10MHz channel	replaces UMTS 10687 & 10712 only (used during refarm, 323 used now)
	347	2144.7	10MHz channel	replaces UMTS 10712 & 10736 only (used during refarm, 323 used now)
	372	2137.4	5MHz channel	replaces 10736 only (used during refarm, 323 used now)
EE	522	2162.2	15MHz channel	replaces UMTS 10761, 10811 & 10836
	547	2164.7	10MHz channel	replaces UMTS 10811 & 10836 only (used during refarm, 522 used now))
LTE2300 TDD	Band 40			

O2	39250	2360.0	20MHz channel	
	39448	2379.8	20MHz channel	
LTE2600 FDD Band 07				
VF	2850	2630.0	20MHz channel	
BT/EE	3026	2647.6	15MHz channel	used for small cells
EE	3179	2662.9	15MHz channel	
	3350	2680.0	20MHz channel	
LTE 2600 TDD Band 38				
VF	37900	2585.0	20MHz channel	
BT	TBD			
LTE 3400 TDD Band 42				
VF	TBD			50MHz available, not observed yet
H3G	TBD			20MHz available, not observed yet
UK BB (H3G)	42490	3490.0	20MHz channel	
O2	TBD			40MHz available, not observed yet
EE	TBD			40MHz available, not observed yet
UK BB (H3G)	43490	3590	20MHz channel	
LTE 3600 TDD Band 43				
UK BB (H3G)	43740	3615.0	20MHz channel	
	43940	3635.0	20MHz channel	
	44140	3655.0	20MHz channel	
	44340	3675.0	20MHz channel	

Forensic Analytics has and will continue to take all reasonable efforts to ensure that the information contained in this guide is accurate and accurately reflects the allocation and use of cellular frequencies in the UK. Forensic Analytics Ltd's responsibility for inaccuracies is limited to investigation and fixing the cause of such errors in a future version of the guide, Forensic Analytics Ltd will not be responsible for any losses (actual or consequential) or breaches of confidentiality that may result from relying on, making use of or further disseminating such errors.

Channel allocation data was mainly obtained directly from RF surveys undertaken by us, but additional information was provided by UK RFPS practitioners (notably Darran Fletcher of Nottinghamshire Police and was also supplied Peter Clarke of www.pedroc.co.uk and the 'Peter C' YouTube channel