

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF090718\
 Data File : VF060220.D
 Acq On : 7 Sep 2018 19:45
 Operator : VA/AP
 Sample : J4803-03
 Misc : 5.27g/5mL/MSVOA_F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E7

Quant Time: Sep 07 23:27:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 10:44:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	158662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	230743	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	243800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	133982	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	116463	42.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	84.04%		
35) Dibromofluoromethane	4.28	113	101029	44.69	ug/l	-0.02
Spiked Amount 50.000			Recovery =	89.38%		
50) Toluene-d8	7.71	98	208203	36.91	ug/l	0.00
Spiked Amount 50.000			Recovery =	73.82%		
62) 4-Bromofluorobenzene	11.51	95	107786	33.86	ug/l	0.00
Spiked Amount 50.000			Recovery =	67.72%		

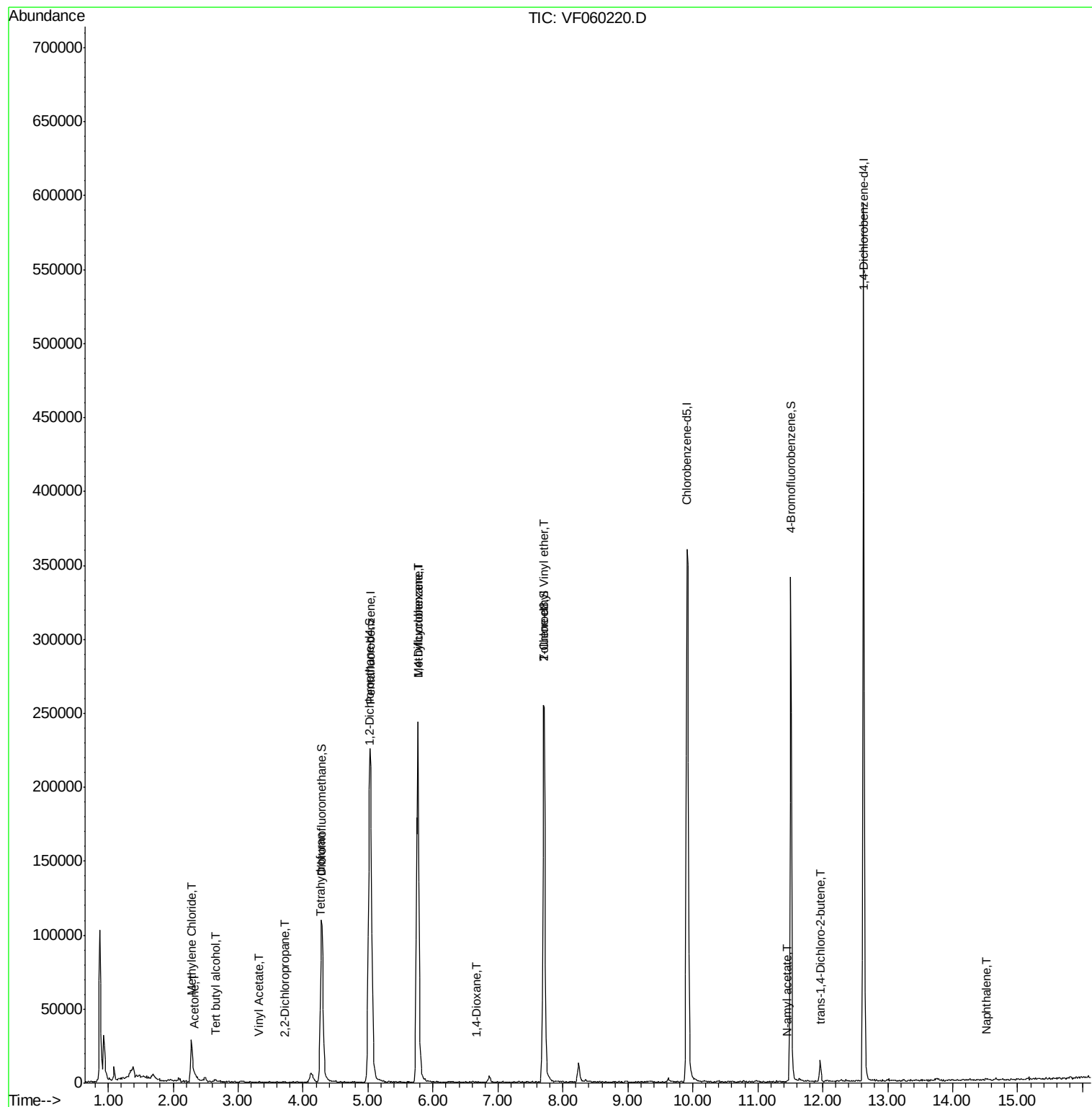
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.66	59	973	18.234	ug/l #	75
16) Acetone	2.34	43	2035	14.961	ug/l #	69
20) Methylene Chloride	2.28	84	15799	3.366	ug/l	86
23) Vinyl Acetate	3.33	43	134	22.865	ug/l #	82
26) 2,2-Dichloropropane	3.72	77	76	2.053	ug/l #	64
29) Tetrahydrofuran	4.26	42	396	1.538	ug/l #	40
37) Ethyl Acetate	4.33	43	59	Below Cal	#	17
39) Methylcyclohexane	5.77	83	3235	1.422	ug/l #	26
49) 1,4-Dioxane	6.68	88	70	3.796	ug/l #	15
58) 2-Chloroethyl Vinyl ether	7.70	63	414	2.443	ug/l	100
64) Tetrachloroethene	8.34	164	64	Below Cal	#	1
74) N-amyl acetate	11.46	43	508	5.044	ug/l #	44
81) trans-1,4-Dichloro-2-buten	11.98	75	112	2.852	ug/l #	9
95) Naphthalene	14.52	128	995	2.796	ug/l #	70

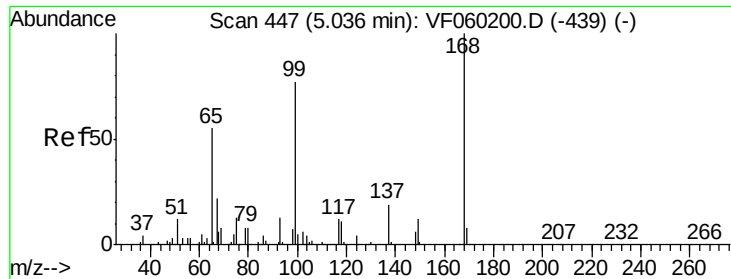
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Instrument :

MSVOA_F

ClientSampleId :

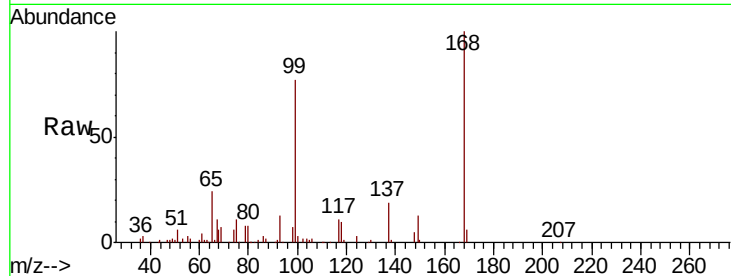
EP1-Q2-E7

Tgt Ion:168 Resp: 158662

Ion Ratio Lower Upper

168 100

99 76.9 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

50000

40000

30000

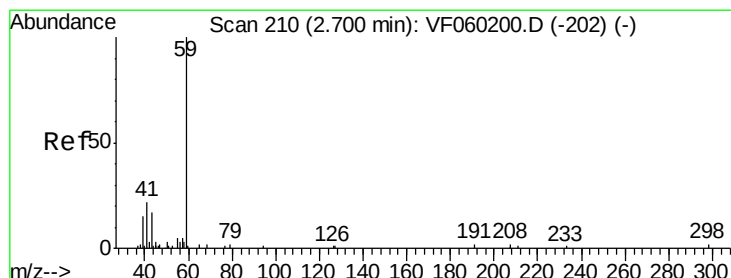
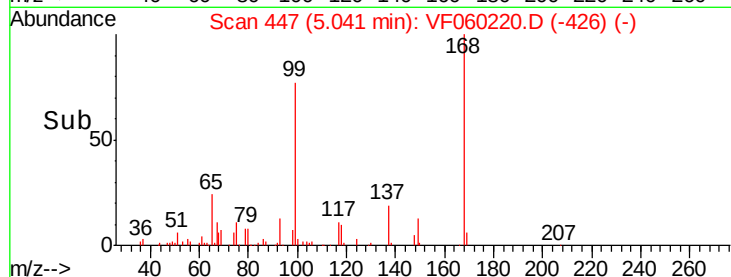
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 18.234 ug/l

RT: 2.66 min Scan# 206

Delta R.T. -0.04 min

Lab File: VF060220.D

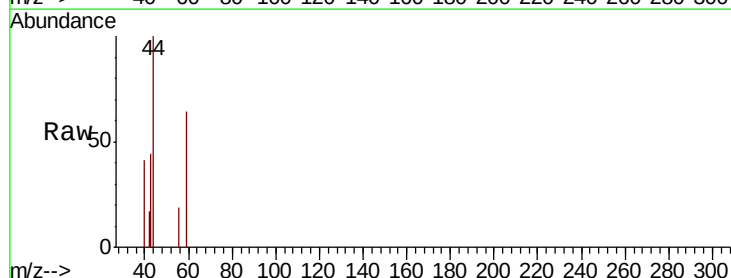
Acq: 7 Sep 2018 19:45

Tgt Ion: 59 Resp: 973

Ion Ratio Lower Upper

59 100

57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.66

400

300

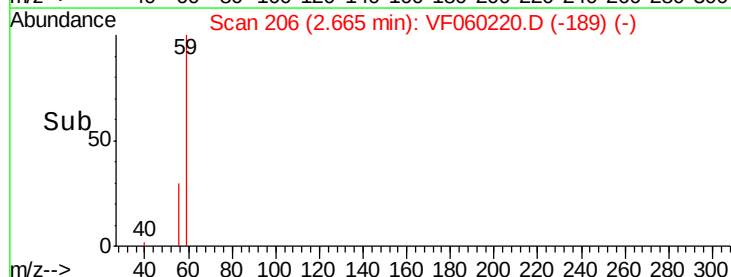
200

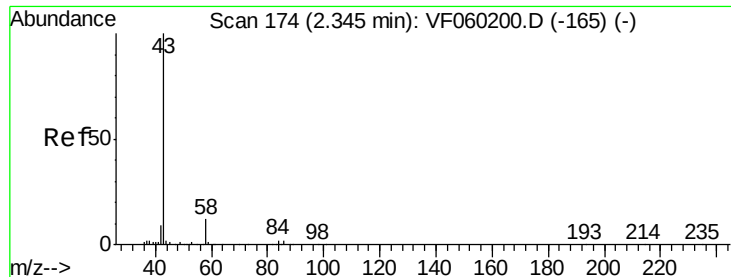
100

0

Time-->

2.60 2.65 2.70





#16

Acetone

Concen: 14.961 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Instrument :

MSVOA_F

ClientSampleId :

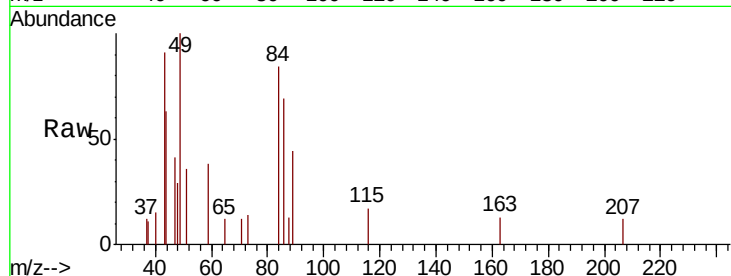
EP1-Q2-E7

Tgt Ion: 43 Resp: 2035

Ion Ratio Lower Upper

43 100

58 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.34

800

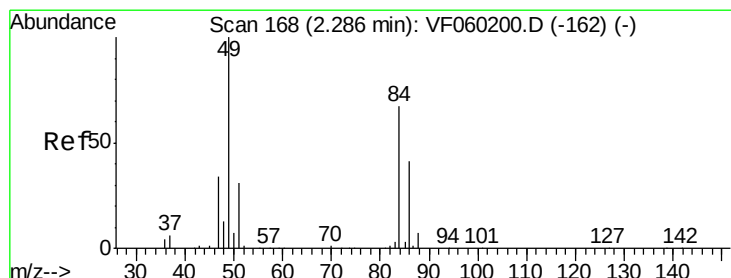
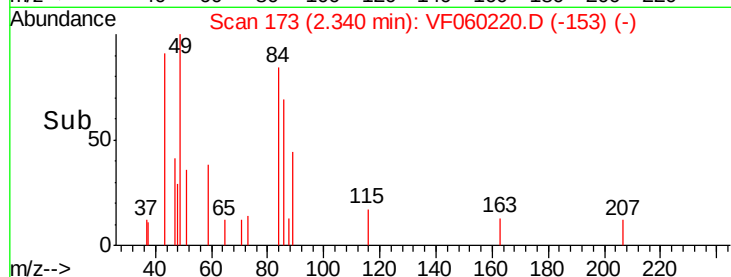
600

400

200

0

Time--> 2.25 2.30 2.35 2.40



#20

Methylene Chloride

Concen: 3.366 ug/l

RT: 2.28 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Tgt Ion: 84 Resp: 15799

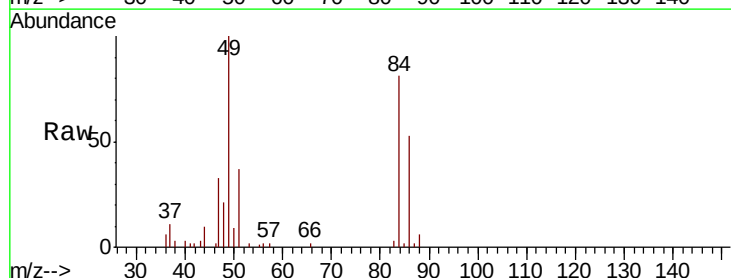
Ion Ratio Lower Upper

84 100

49 123.6 120.1 180.1

51 45.8 37.0 55.6

86 65.9 49.0 73.6



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

10000

8000

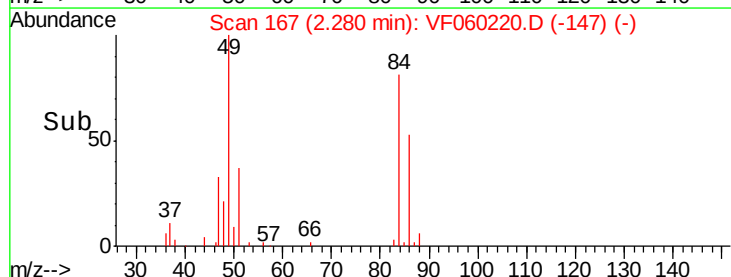
6000

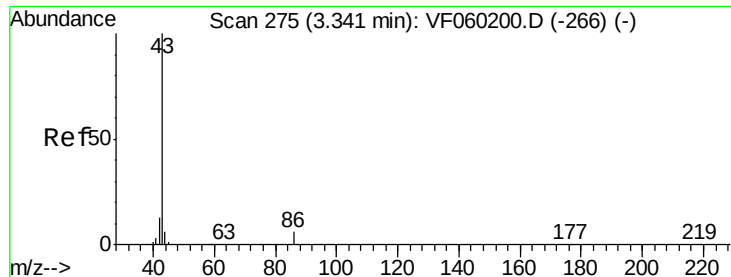
4000

2000

0

Time--> 2.20 2.30 2.40





#23

Vinyl Acetate

Concen: 22.865 ug/l

RT: 3.33 min Scan# 273

Delta R.T. -0.01 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Instrument :

MSVOA_F

ClientSampleId :

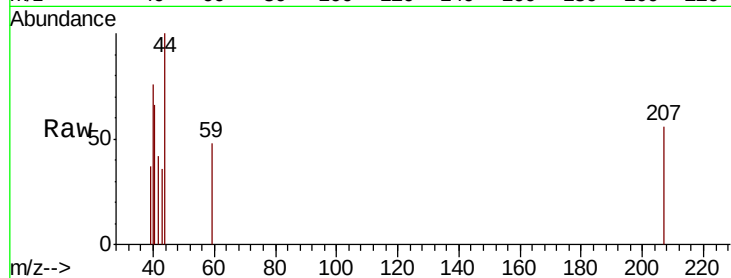
EP1-Q2-E7

Tgt Ion: 43 Resp: 134

Ion Ratio Lower Upper

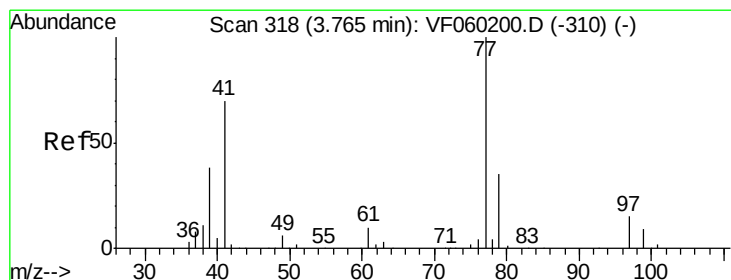
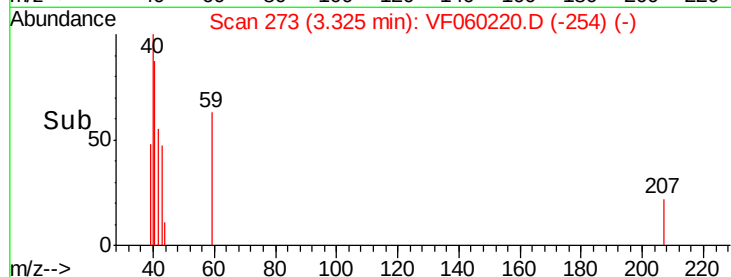
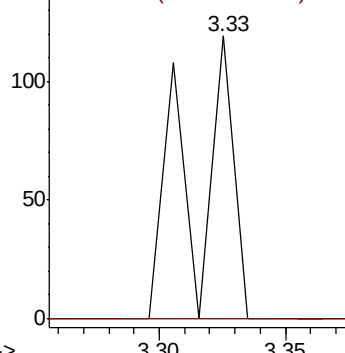
43 100

86 0.0 4.8 7.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#26

2,2-Dichloropropane

Concen: 2.053 ug/l

RT: 3.72 min Scan# 313

Delta R.T. -0.04 min

Lab File: VF060220.D

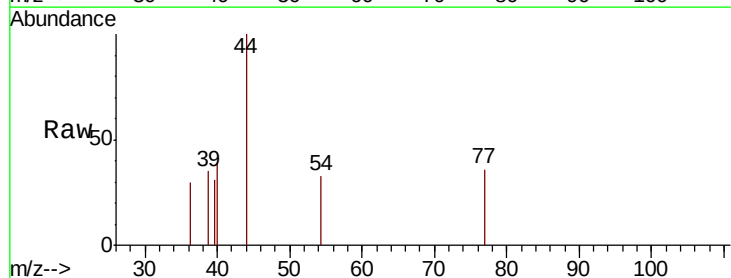
Acq: 7 Sep 2018 19:45

Tgt Ion: 77 Resp: 76

Ion Ratio Lower Upper

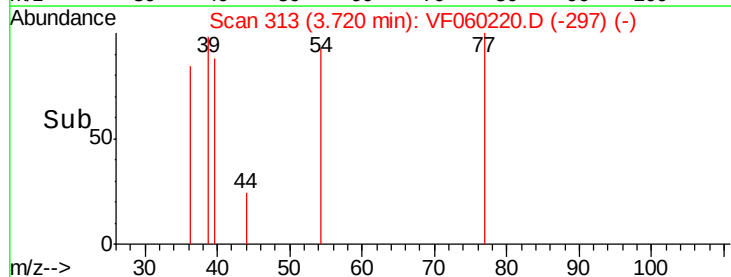
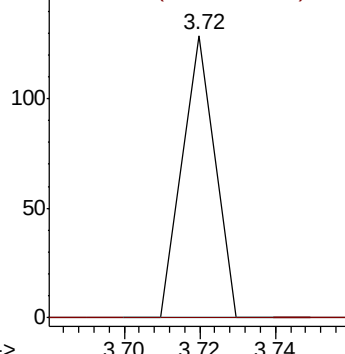
77 100

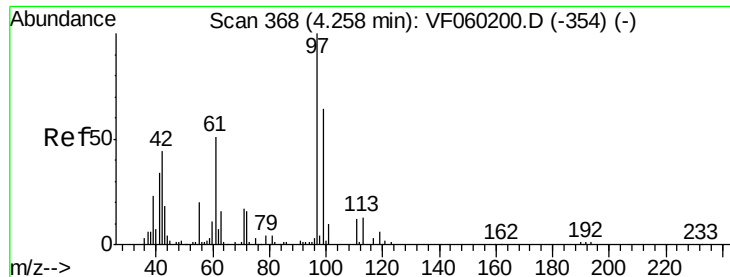
97 0.0 7.5 22.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#29

Tetrahydrofuran

Concen: 1.538 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.00 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E7

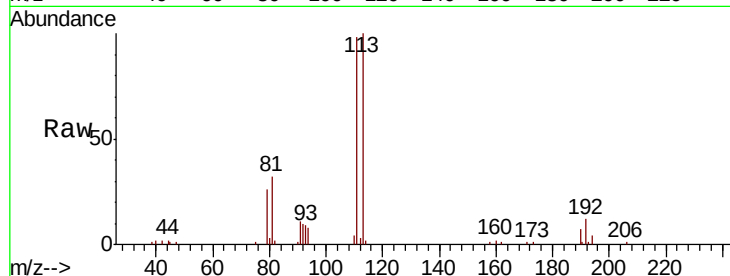
Tgt Ion: 42 Resp: 396

Ion Ratio Lower Upper

42 100

72 0.0 27.4 41.0#

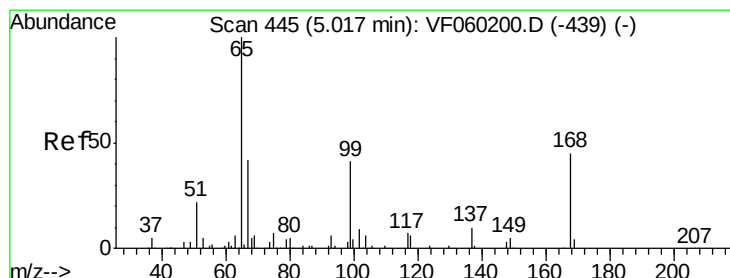
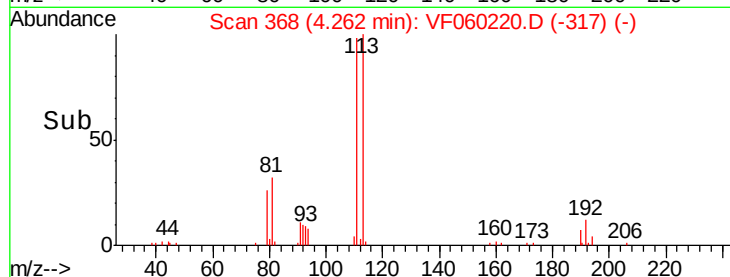
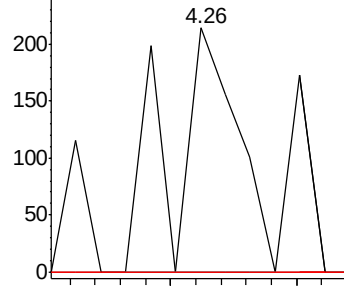
71 0.0 28.5 42.7#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 42.017 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.01 min

Lab File: VF060220.D

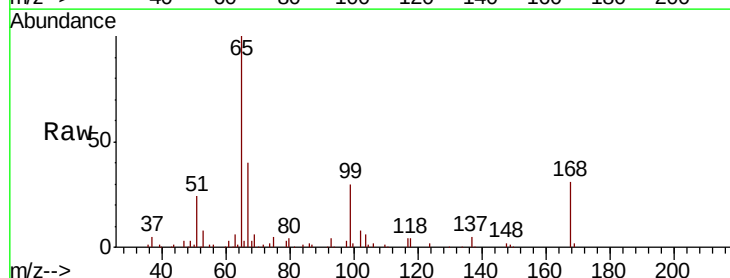
Acq: 7 Sep 2018 19:45

Tgt Ion: 65 Resp: 116463

Ion Ratio Lower Upper

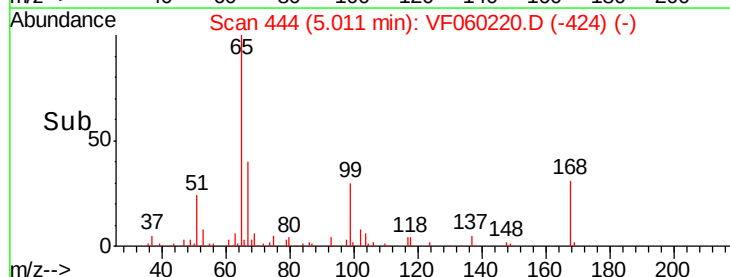
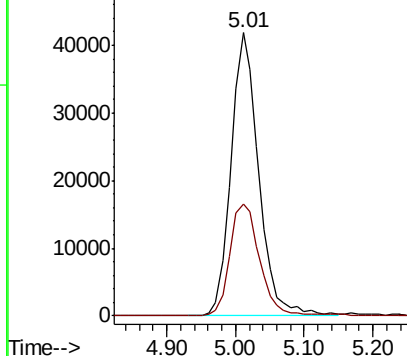
65 100

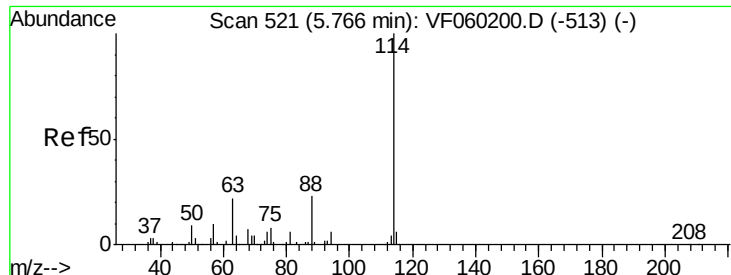
67 39.6 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

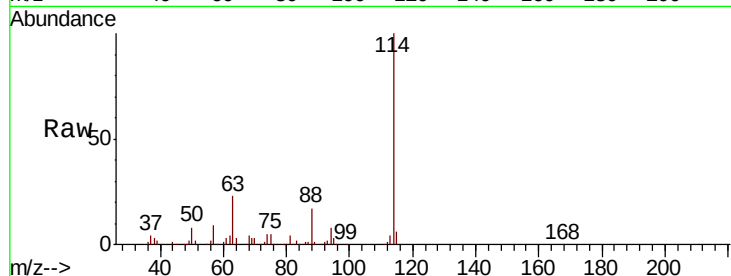




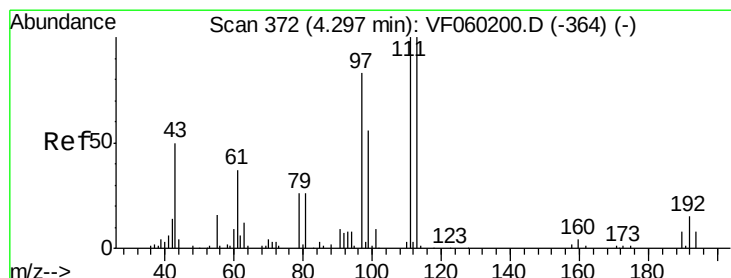
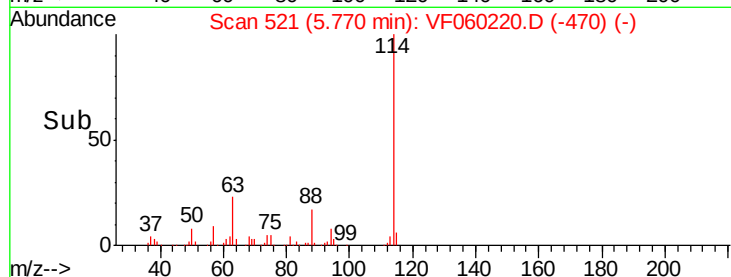
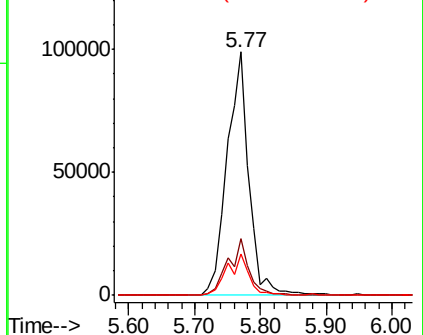
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VF060220.D
 Acq: 7 Sep 2018 19:45

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E7

Tgt Ion:114 Resp: 230743
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.6
 88 16.9 0.0 46.4

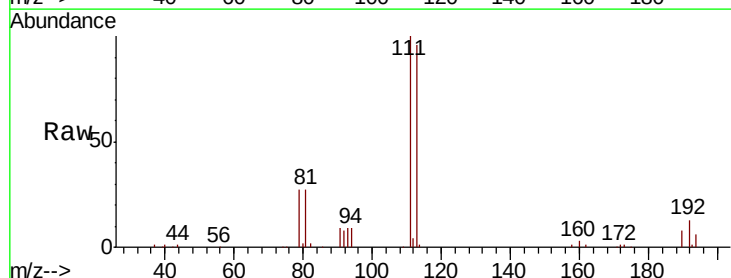


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

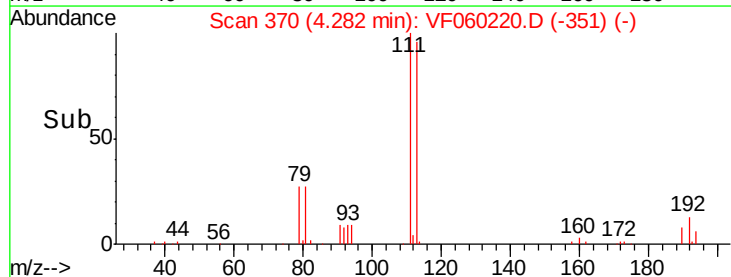
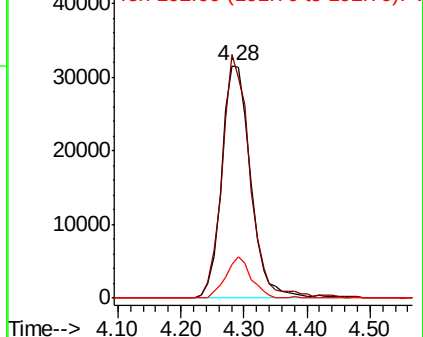


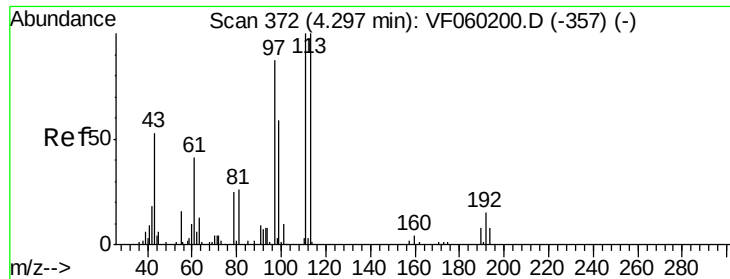
#35
 Dibromofluoromethane
 Concen: 44.690 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.02 min
 Lab File: VF060220.D
 Acq: 7 Sep 2018 19:45

Tgt Ion:113 Resp: 101029
 Ion Ratio Lower Upper
 113 100
 111 103.6 80.2 120.2
 192 14.1 11.8 17.8



Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

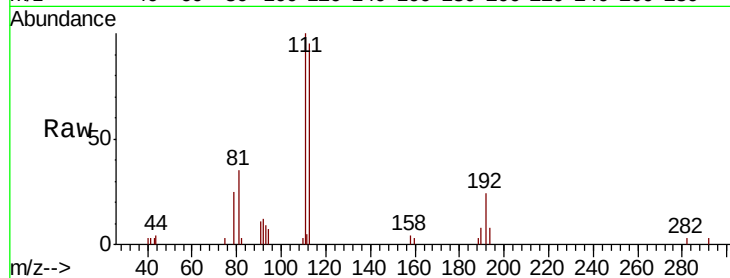




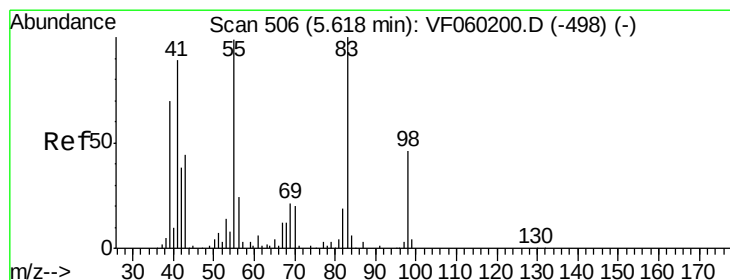
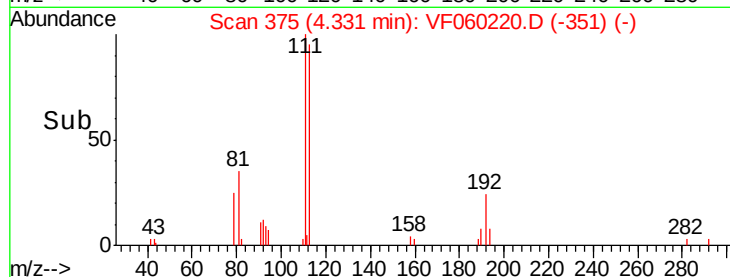
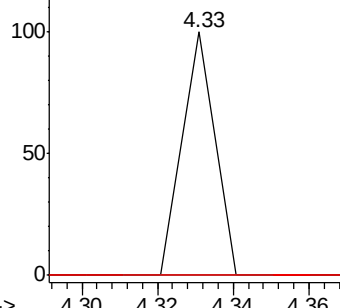
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 375
Delta R.T. 0.03 min
Lab File: VF060220.D
Acq: 7 Sep 2018 19:45

Instrument :
MSVOA_F
ClientSampled :
EP1-Q2-E7

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	61.6	92.4#
70	0.0	6.9	10.3#

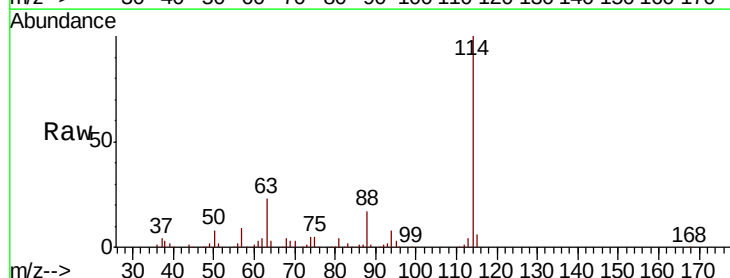


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

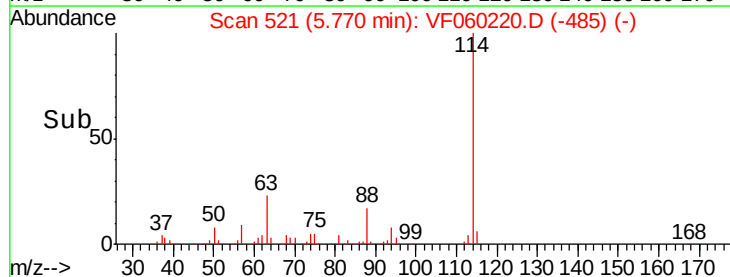
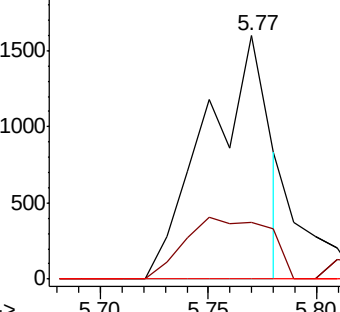


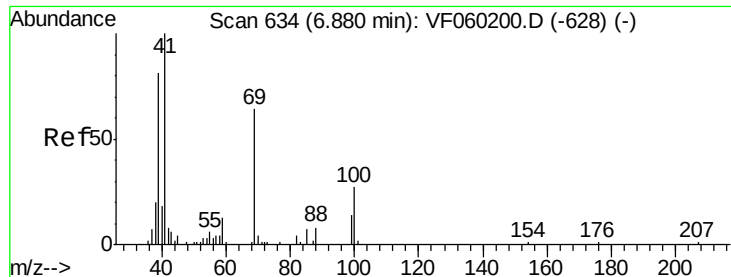
#39
Methylcyclohexane
Concen: 1.422 ug/l
RT: 5.77 min Scan# 521
Delta R.T. 0.15 min
Lab File: VF060220.D
Acq: 7 Sep 2018 19:45

Tgt Ion	Ratio	Lower	Upper
83	100		
55	23.4	79.0	118.4#
98	0.0	36.7	55.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#49

1,4-Dioxane

Concen: 3.796 ug/l

RT: 6.68 min Scan# 613

Delta R.T. -0.20 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E7

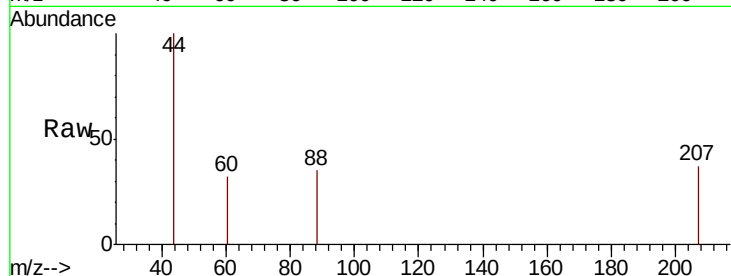
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 0.0 68.1 102.1#

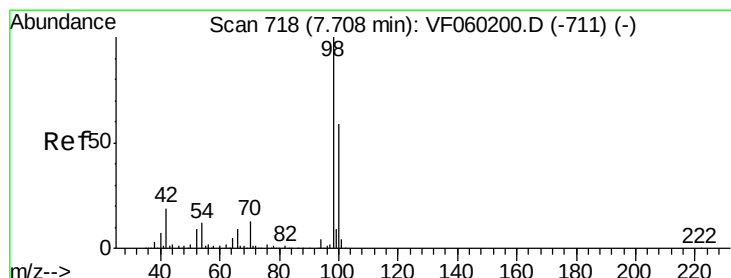
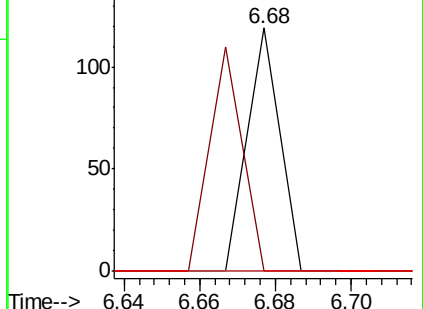
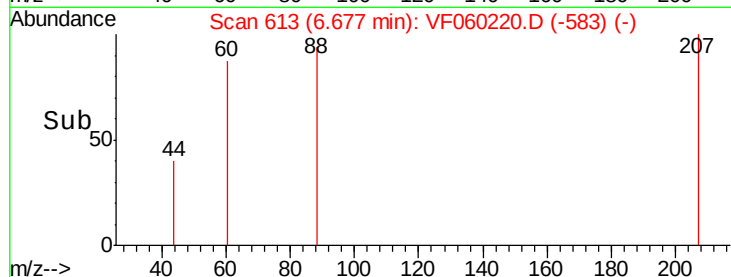
58 0.0 38.1 57.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 36.907 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060220.D

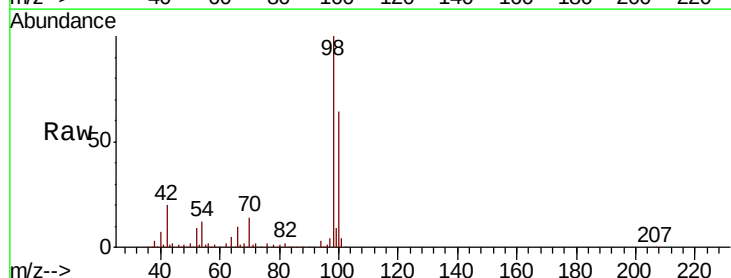
Acq: 7 Sep 2018 19:45

Tgt Ion: 98 Resp: 208203

Ion Ratio Lower Upper

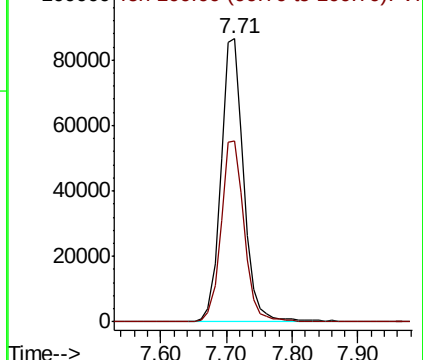
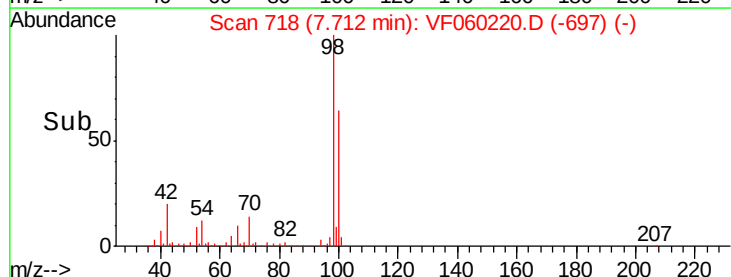
98 100

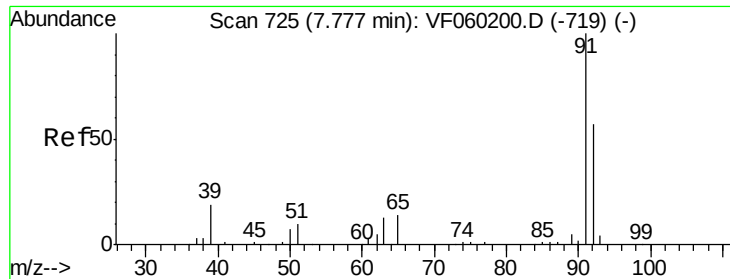
100 64.1 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

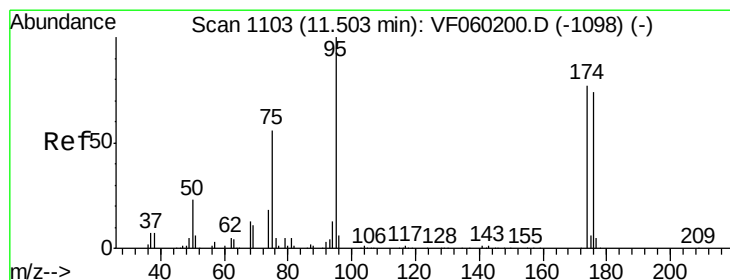
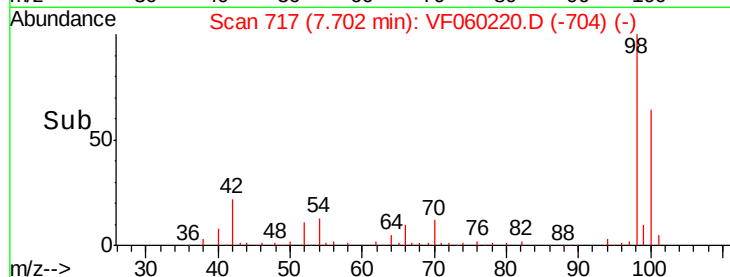
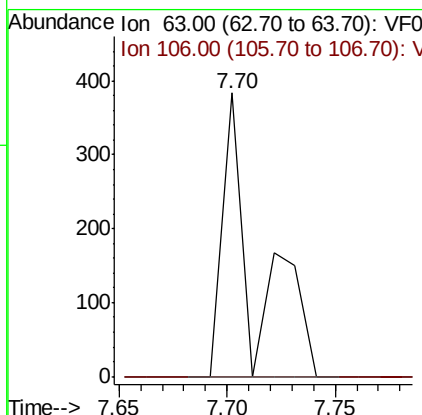
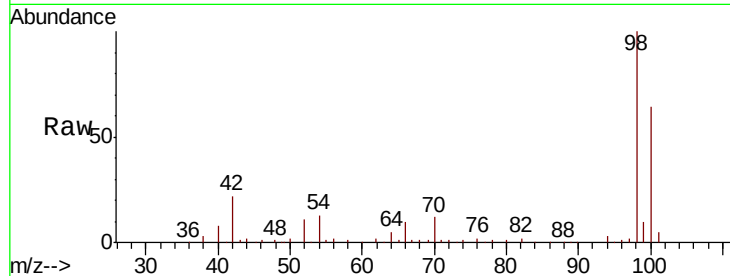




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.443 ug/l
 RT: 7.70 min Scan# 717
 Delta R.T. -0.07 min
 Lab File: VF060220.D
 Acq: 7 Sep 2018 19:45

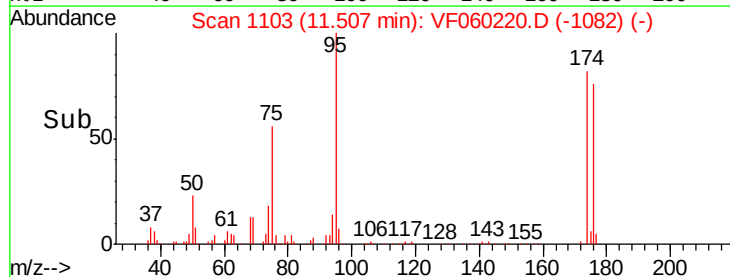
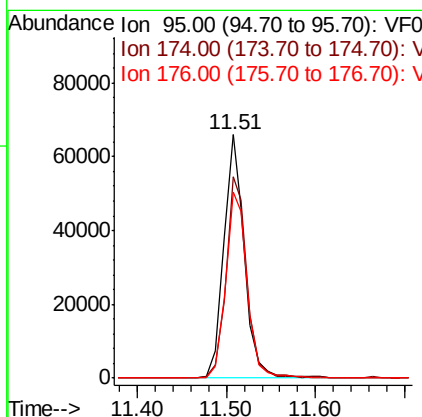
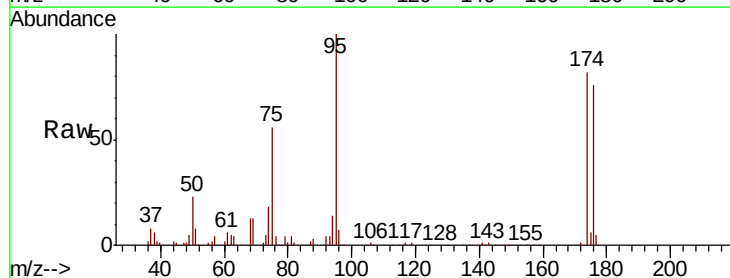
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E7

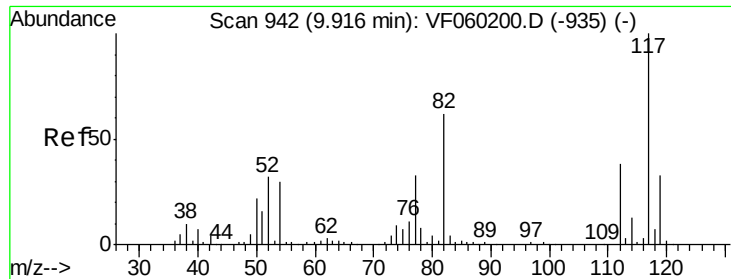
Tgt Ion: 63 Resp: 414
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#62
 4-Bromofluorobenzene
 Concen: 33.864 ug/l
 RT: 11.51 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VF060220.D
 Acq: 7 Sep 2018 19:45

Tgt Ion: 95 Resp: 107786
 Ion Ratio Lower Upper
 95 100
 174 82.5 0.0 153.2
 176 76.2 0.0 147.2

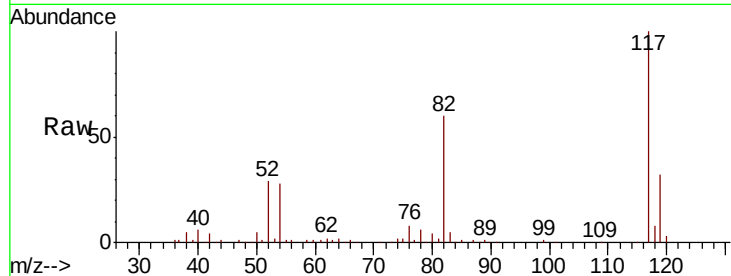




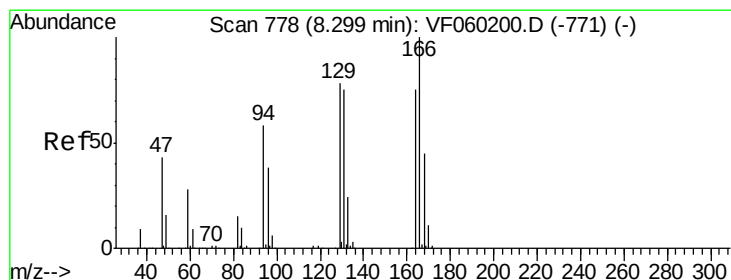
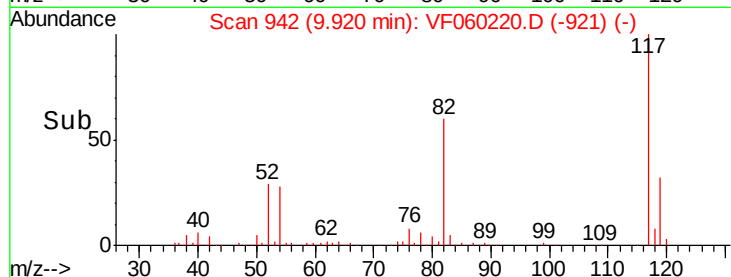
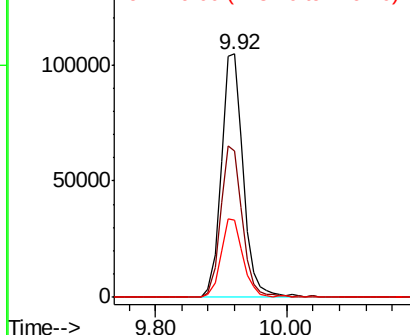
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060220.D
Acq: 7 Sep 2018 19:45

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E7

Tgt Ion:117 Resp: 243800
Ion Ratio Lower Upper
117 100
82 60.1 49.3 73.9
119 31.5 26.5 39.7

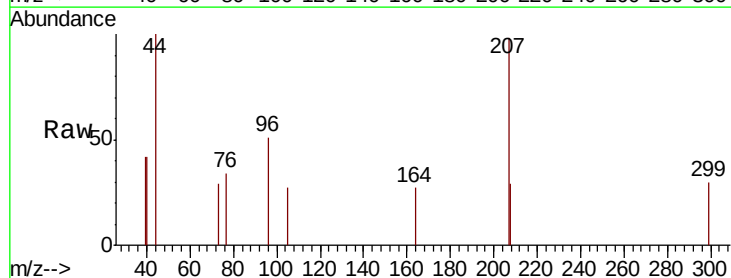


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

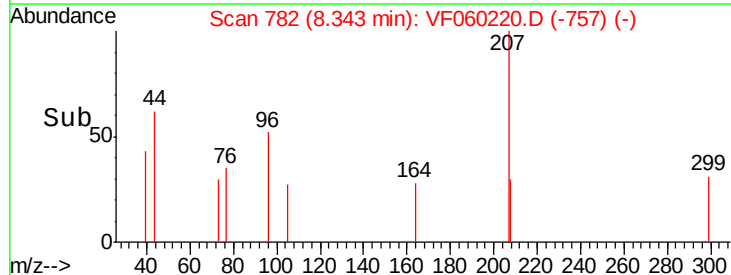
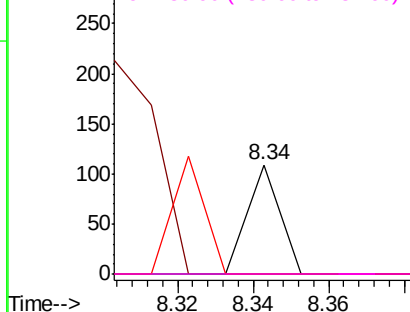


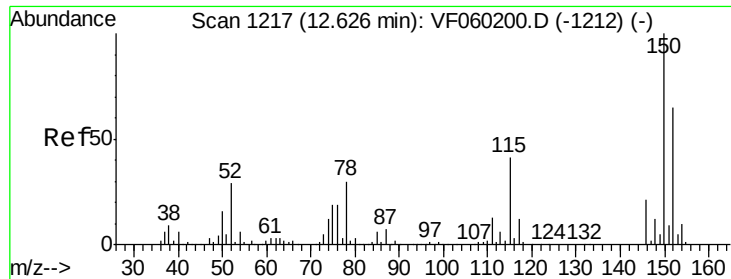
#64
Tetrachloroethene
Concen: Below Cal
RT: 8.34 min Scan# 782
Delta R.T. 0.04 min
Lab File: VF060220.D
Acq: 7 Sep 2018 19:45

Tgt Ion:164 Resp: 64
Ion Ratio Lower Upper
164 100
166 0.0 107.0 160.4#
129 0.0 83.0 124.6#
131 0.0 79.8 119.8#



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V



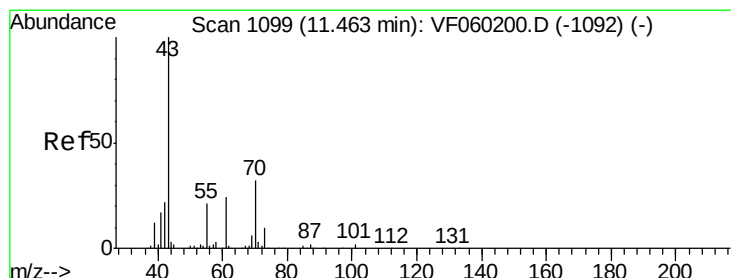
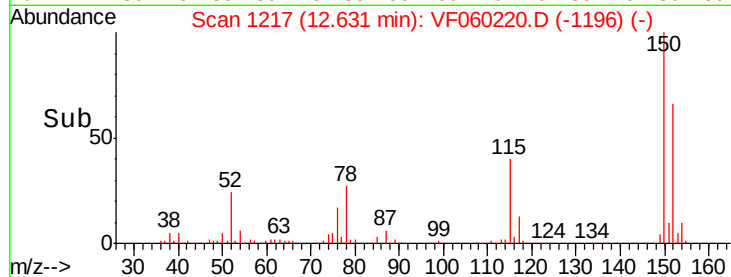
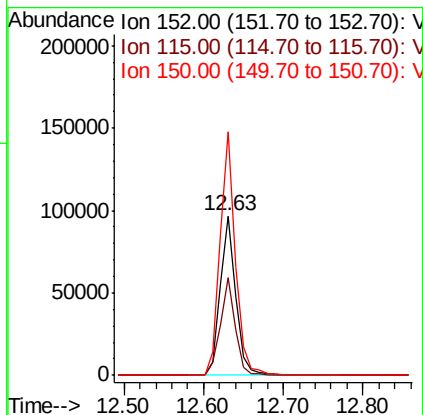
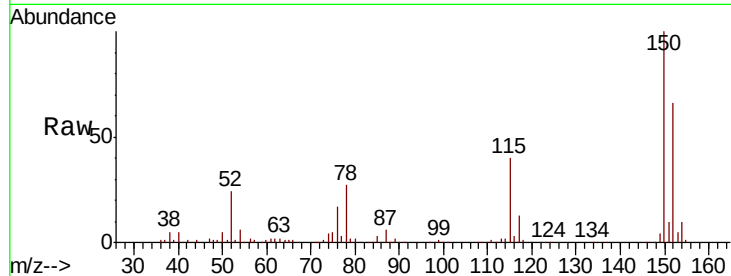


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060220.D
Acq: 7 Sep 2018 19:45

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E7

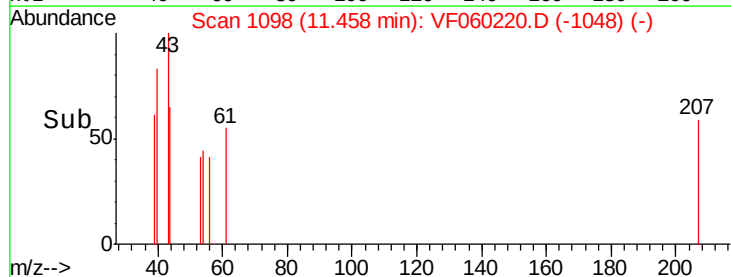
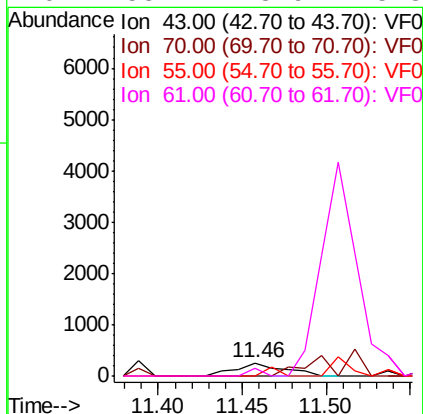
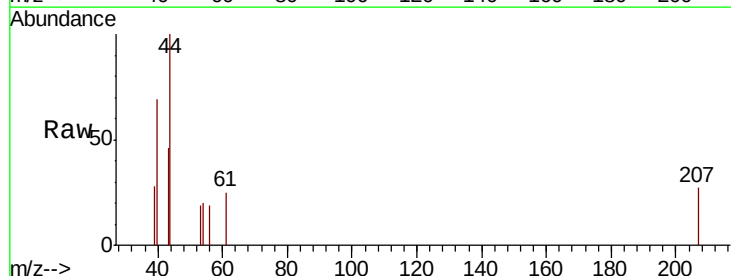
Tgt Ion:152 Resp: 133982
Ion Ratio Lower Upper
152 100
115 61.3 31.5 94.5
150 152.5 0.0 310.4

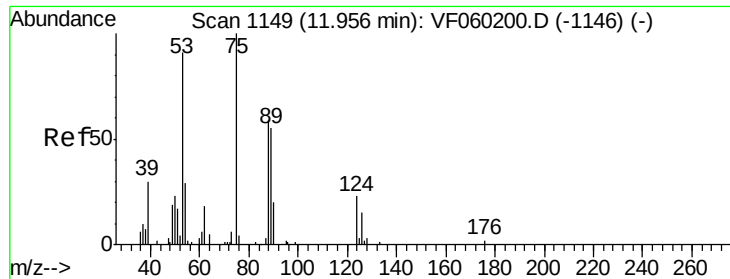


#74

N-amil acetate
Concen: 5.044 ug/l
RT: 11.46 min Scan# 1098
Delta R.T. -0.01 min
Lab File: VF060220.D
Acq: 7 Sep 2018 19:45

Tgt Ion: 43 Resp: 508
Ion Ratio Lower Upper
43 100
70 0.0 25.8 38.6#
55 0.0 16.8 25.2#
61 55.1 18.9 28.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 2.852 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E7

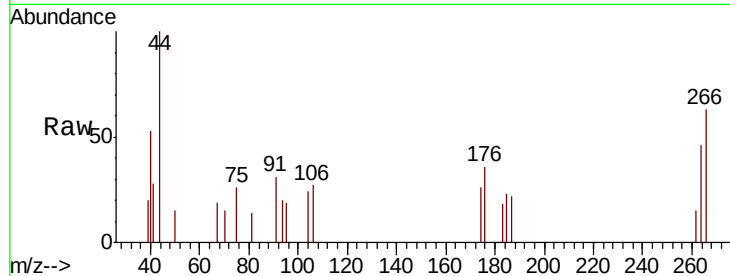
Tgt Ion: 75 Resp: 112

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

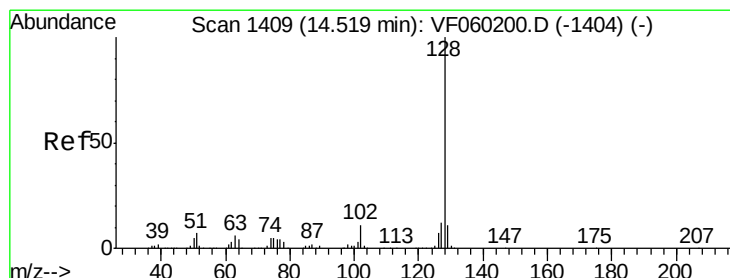
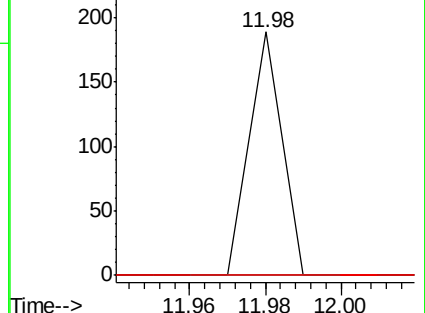
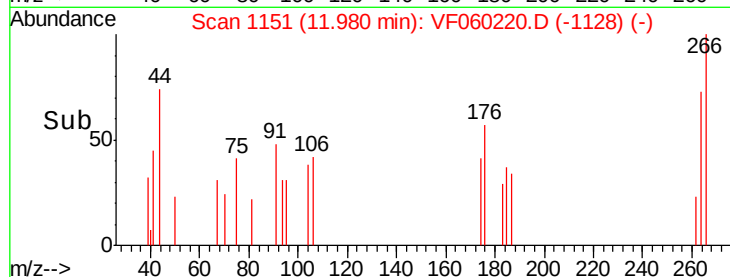
89 0.0 46.5 69.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#95

Naphthalene

Concen: 2.796 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.01 min

Lab File: VF060220.D

Acq: 7 Sep 2018 19:45

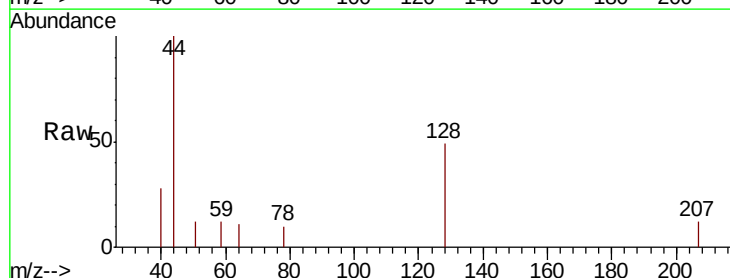
Tgt Ion: 128 Resp: 995

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

