

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060246.D
 Acq On : 10 Sep 2018 20:28
 Operator : VA/AP
 Sample : J4774-01RE
 Misc : 6.80/5mL/MSVOA F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-090618

Quant Time: Sep 11 07:19:38 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	5.05	168	179468	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	240584	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	257207	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	154610	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	113695	36.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.52%	
35) Dibromofluoromethane	4.29	113	81389	34.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.06%	
50) Toluene-d8	7.71	98	232001	39.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.88%	
62) 4-Bromofluorobenzene	11.51	95	127908	38.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.08%	

Target Compounds

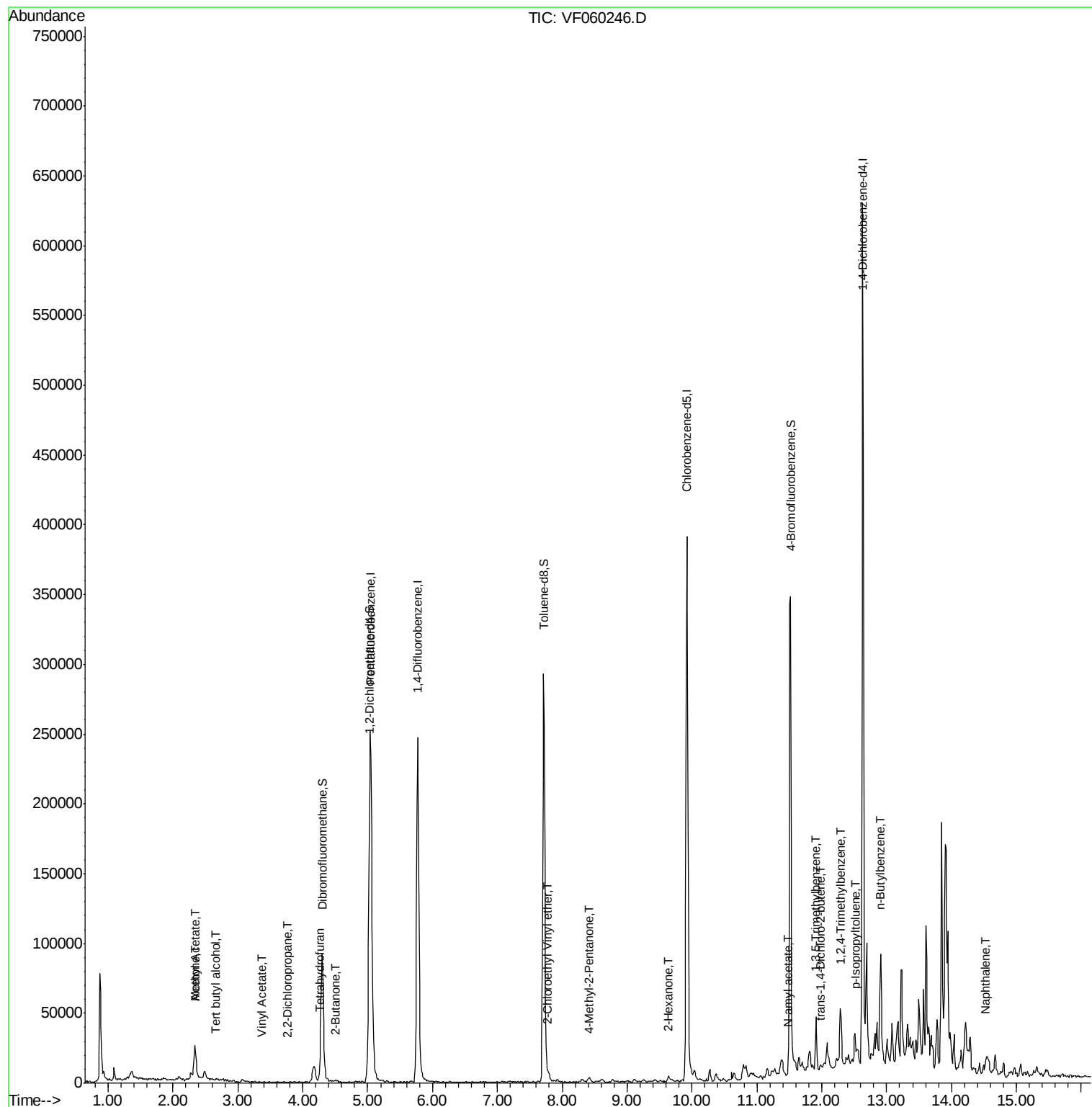
						Qvalue
11) Tert butyl alcohol	2.67	59	880	17.08	ug/l #	75
13) Acrolein	2.10	56	273	Below	Cal #	1
16) Acetone	2.34	43	44831	59.42	ug/l #	94
18) Methyl Acetate	2.34	43	40624	38.34	ug/l #	64
20) Methylene Chloride	2.29	84	1742	Below	Cal #	84
23) Vinyl Acetate	3.36	43	105	22.84	ug/l #	82
25) 2-Butanone	4.51	43	2777	3.15	ug/l	96
26) 2,2-Dichloropropane	3.77	77	90	2.05	ug/l #	64
29) Tetrahydrofuran	4.25	42	804	2.76	ug/l #	54
37) Ethyl Acetate	4.25	43	131	Below	Cal #	17
51) 4-Methyl-2-Pentanone	8.40	43	3360	2.30	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.78	63	351	1.99	ug/l	100
59) 2-Hexanone	9.63	43	4404	2.86	ug/l	83
64) Tetrachloroethene	8.30	164	397	Below	Cal #	81
74) N-amyl acetate	11.47	43	959	5.20	ug/l #	14
80) 1,3,5-Trimethylbenzene	11.91	105	20980	2.23	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.98	75	413	3.53	ug/l #	61
84) 1,2,4-Trimethylbenzene	12.29	105	18278	1.91	ug/l	98
86) p-Isopropyltoluene	12.51	119	15823	1.51	ug/l	95
89) n-Butylbenzene	12.91	91	10233	1.01	ug/l #	1
95) Naphthalene	14.52	128	6471	3.66	ug/l #	96

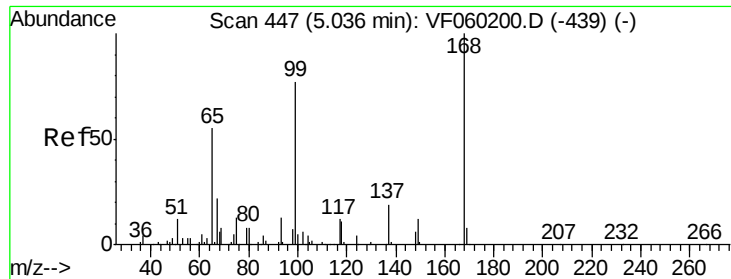
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 07 10:44:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

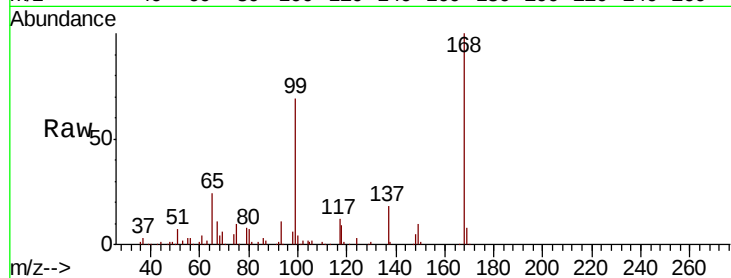
OK-03-090618

Tot Ion:168 Resp: 179468

Ion Ratio Lower Upper

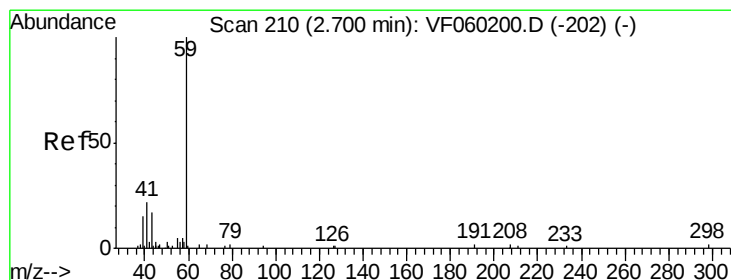
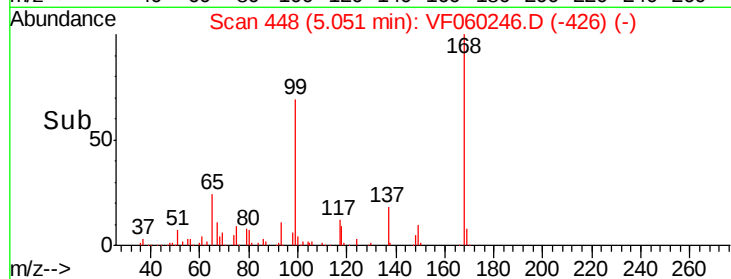
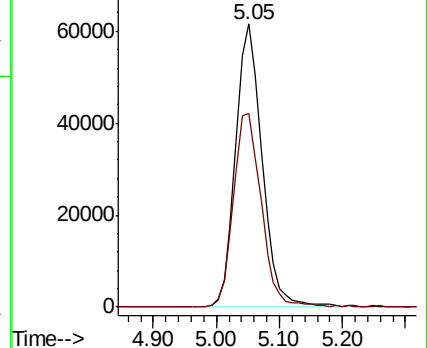
168 100

99 68.5 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 17.08 ug/l

RT: 2.67 min Scan# 206

Delta R.T. -0.03 min

Lab File: VF060246.D

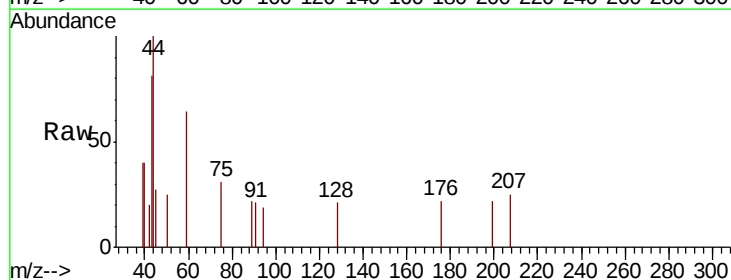
Acq: 10 Sep 2018 20:28

Tgt Ion: 59 Resp: 880

Ion Ratio Lower Upper

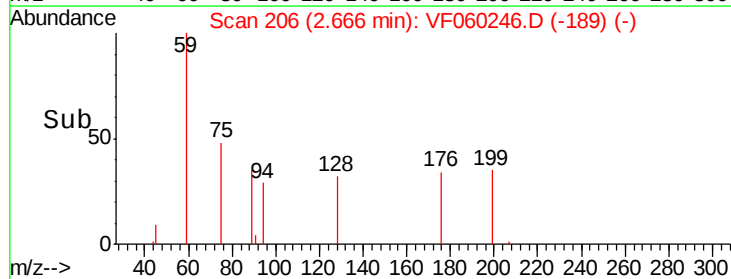
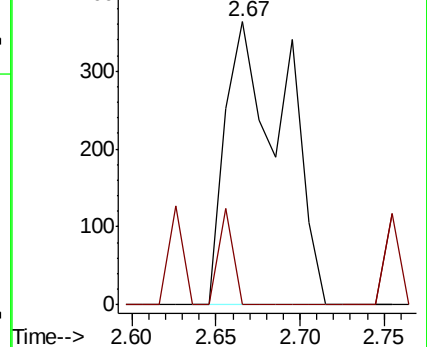
59 100

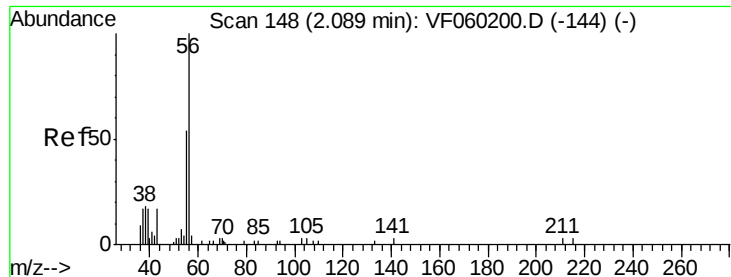
57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.10 min Scan# 149

Delta R.T. 0.02 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

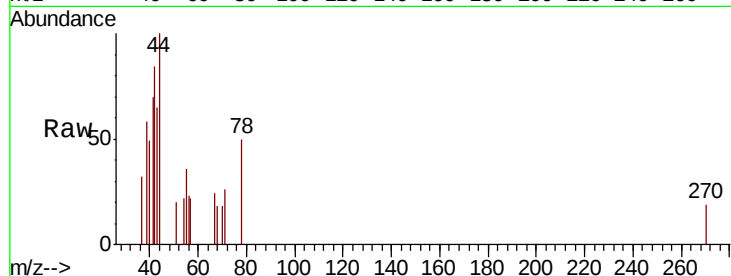
OK-03-090618

Tot Ion: 56 Resp: 273

Ion Ratio Lower Upper

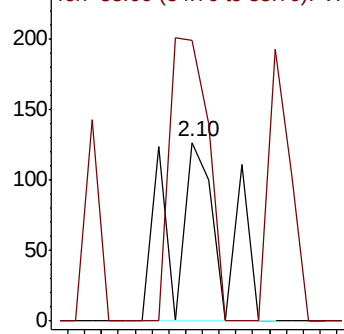
56 100

55 156.7 45.1 67.7#

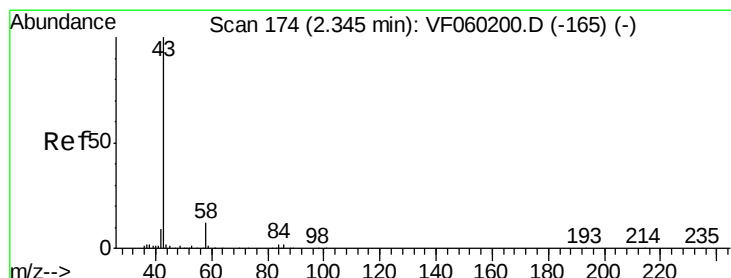
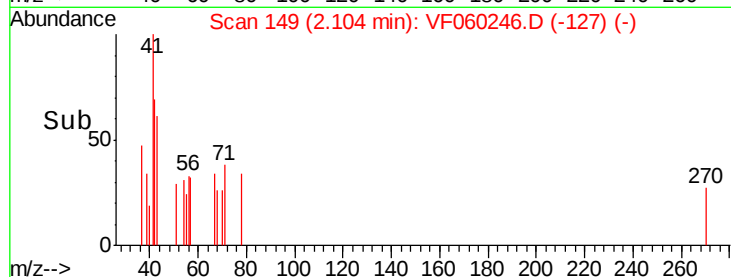


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#16

Acetone

Concen: 59.42 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF060246.D

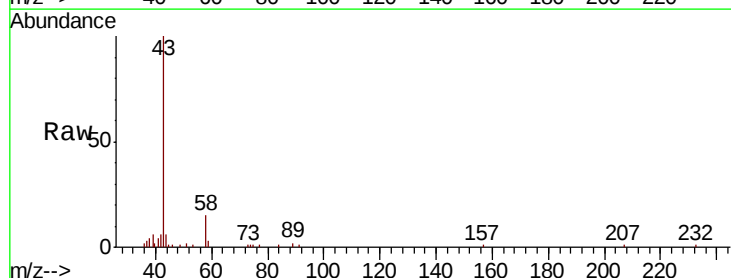
Acq: 10 Sep 2018 20:28

Tgt Ion: 43 Resp: 44831

Ion Ratio Lower Upper

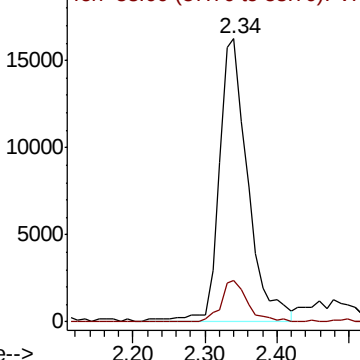
43 100

58 14.6 9.7 14.5#

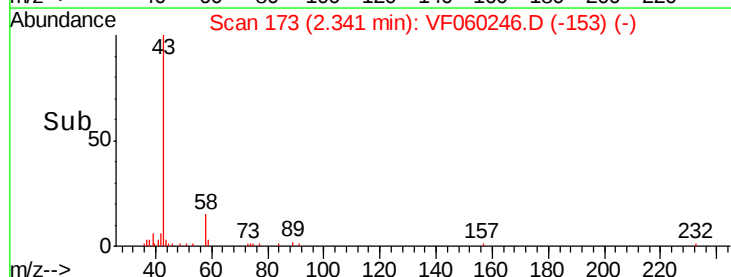


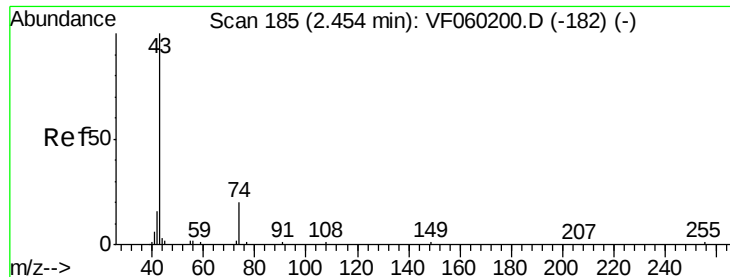
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#18

Methyl Acetate

Concen: 38.34 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.11 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

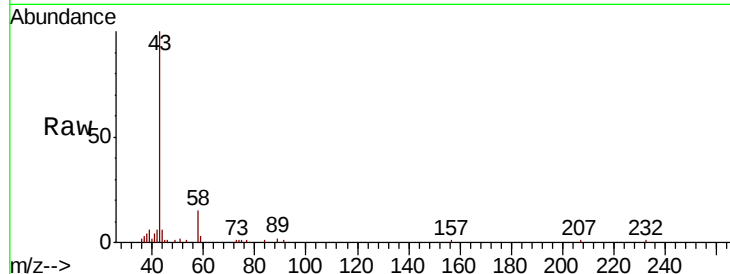
OK-03-090618

Tot Ion: 43 Resp: 40624

Ion Ratio Lower Upper

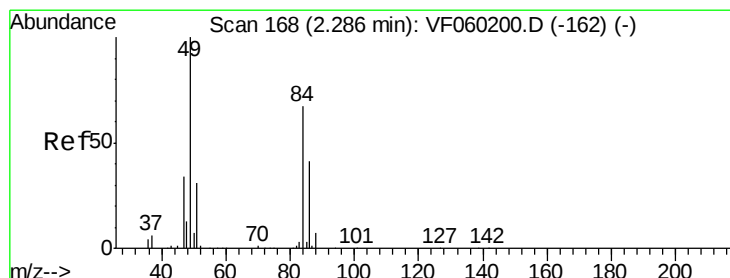
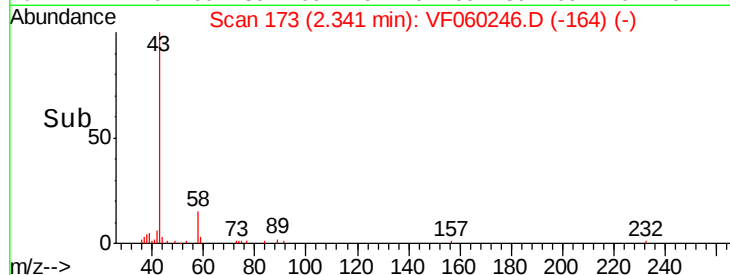
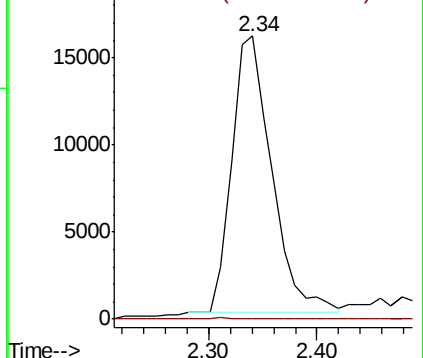
43 100

74 0.0 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.29 min Scan# 168

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Tgt Ion: 84 Resp: 1742

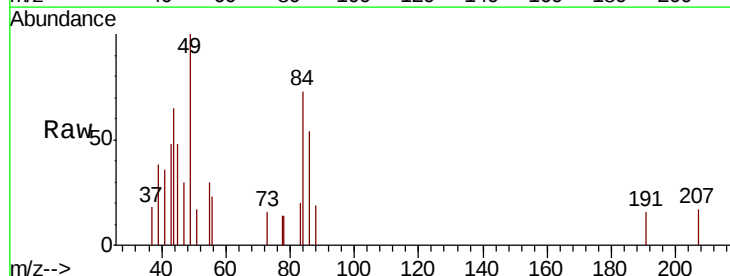
Ion Ratio Lower Upper

84 100

49 137.7 120.1 180.1

51 23.6 37.0 55.6#

86 74.5 49.0 73.6#

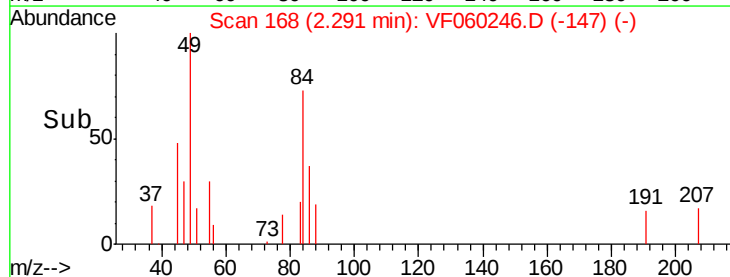
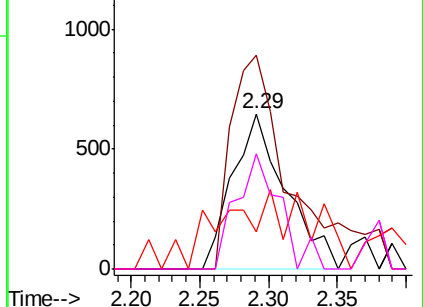


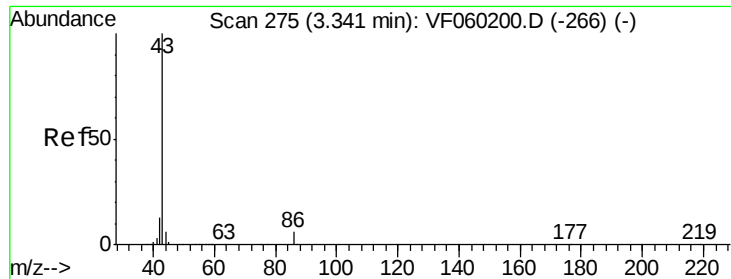
Abundance Ion 84.00 (83.70 to 84.70): VF0

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





#23

Vinyl Acetate

Concen: 22.84 ug/l

RT: 3.36 min Scan# 276

Delta R.T. 0.02 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

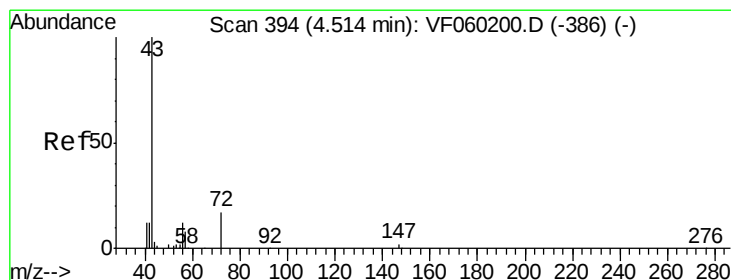
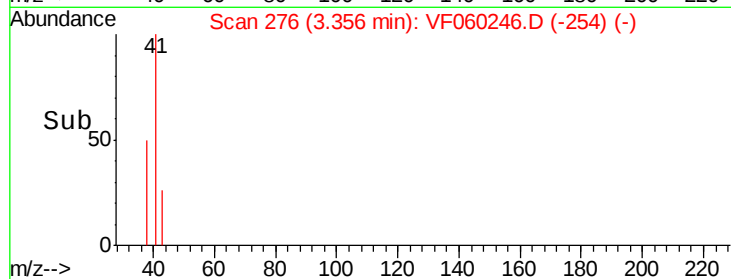
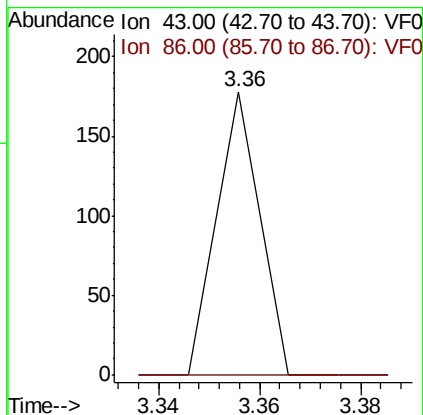
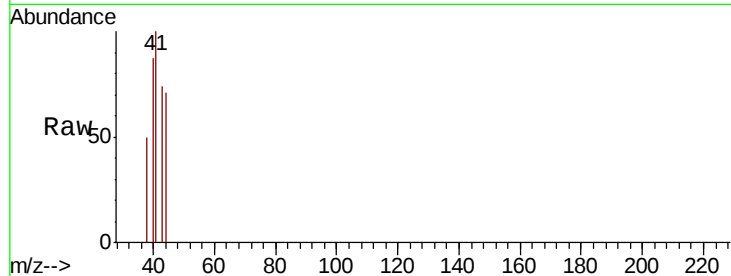
OK-03-090618

Tot Ion: 43 Resp: 105

Ion Ratio Lower Upper

43 100

86 0.0 4.8 7.2#



#25

2-Butanone

Concen: 3.15 ug/l

RT: 4.51 min Scan# 393

Delta R.T. -0.00 min

Lab File: VF060246.D

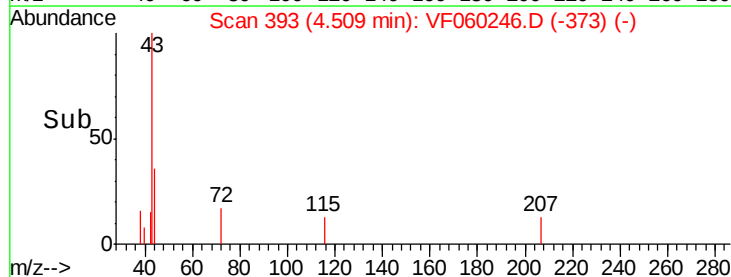
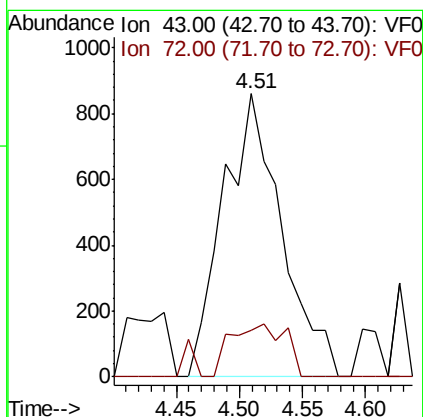
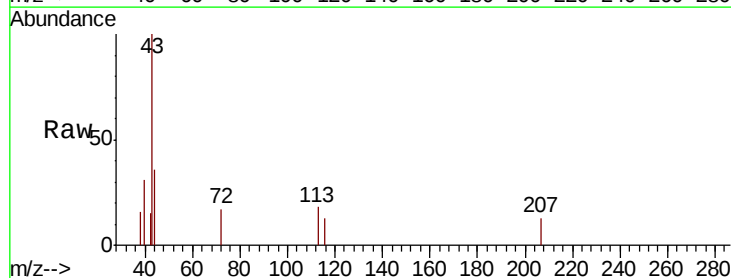
Acq: 10 Sep 2018 20:28

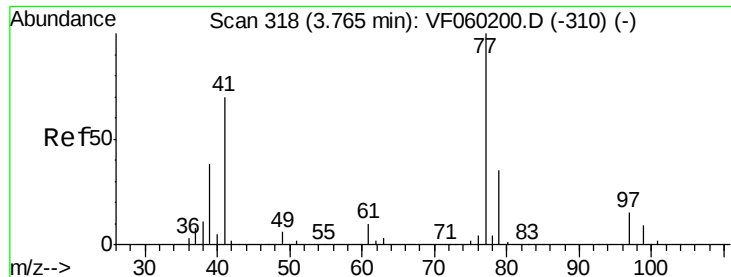
Tgt Ion: 43 Resp: 2777

Ion Ratio Lower Upper

43 100

72 16.6 14.8 22.2

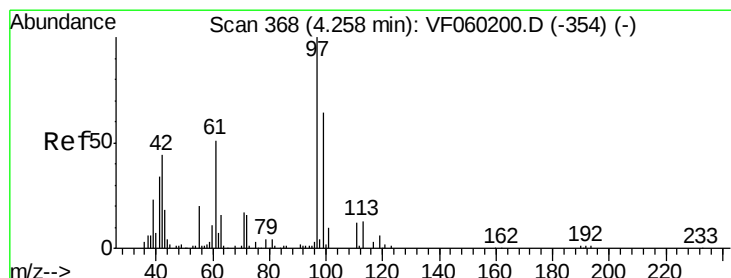
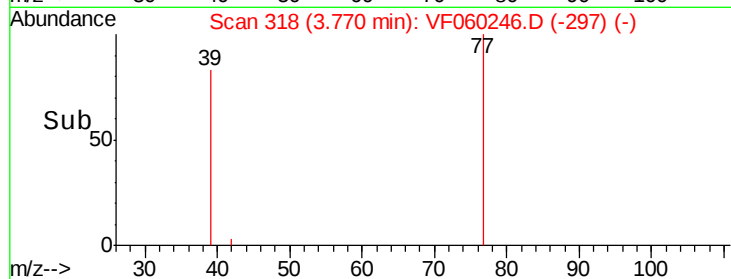
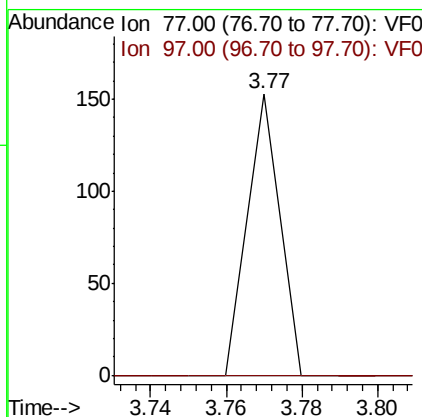
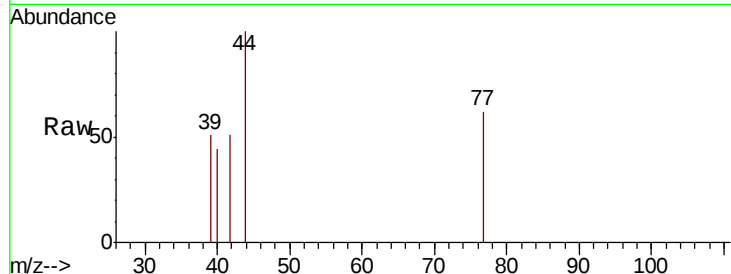




#26
 2,2-Dichloropropane
 Concen: 2.05 ug/l
 RT: 3.77 min Scan# 318
 Delta R.T. 0.01 min
 Lab File: VF060246.D
 Acq: 10 Sep 2018 20:28

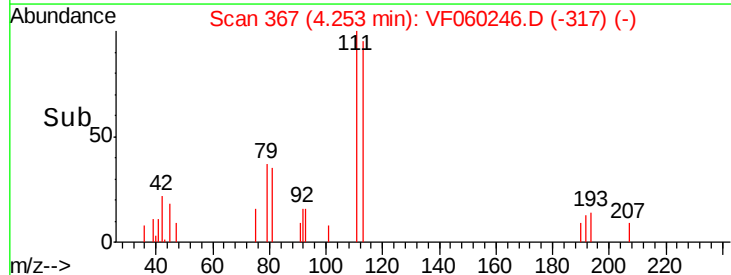
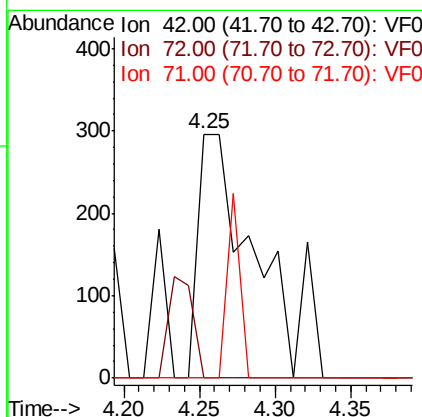
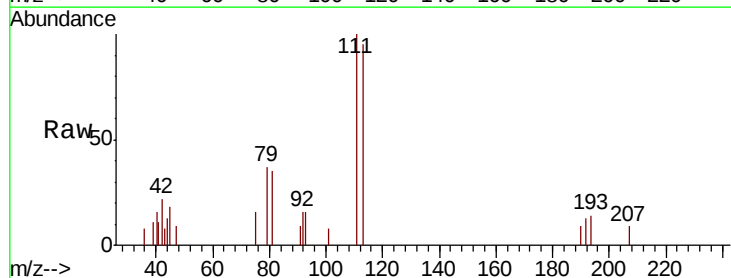
Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-090618

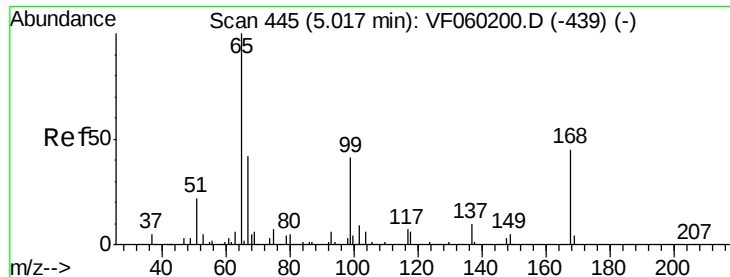
Tot Ion: 77 Resp: 90
 Ion Ratio Lower Upper
 77 100
 97 0.0 7.5 22.5#



#29
 Tetrahydrofuran
 Concen: 2.76 ug/l
 RT: 4.25 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VF060246.D
 Acq: 10 Sep 2018 20:28

Tgt Ion: 42 Resp: 804
 Ion Ratio Lower Upper
 42 100
 72 0.0 27.4 41.0#
 71 16.4 28.5 42.7#





#33

1,2-Dichloroethane-d4

Concen: 36.26 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

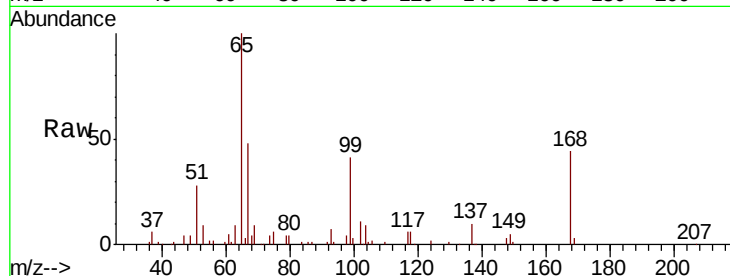
OK-03-090618

Tot Ion: 65 Resp: 113695

Ion Ratio Lower Upper

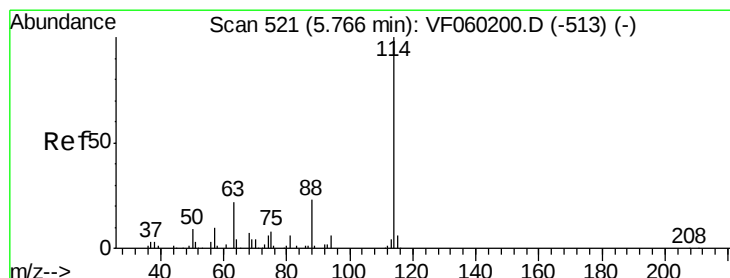
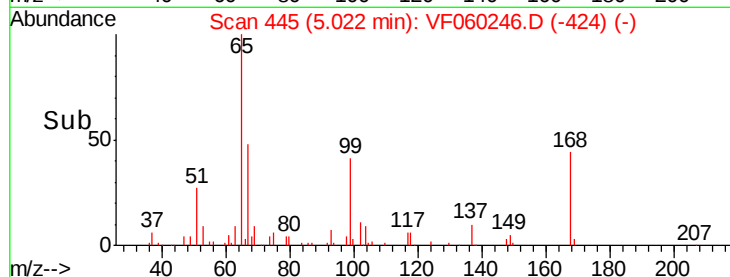
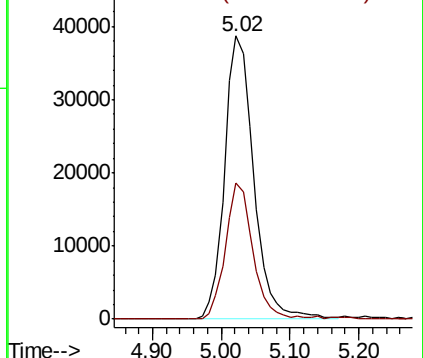
65 100

67 48.2 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: 50.00 ug/l

RT: 5.77 min Scan# 521

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

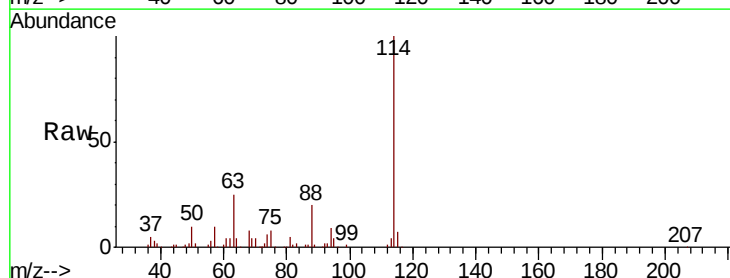
Tgt Ion: 114 Resp: 240584

Ion Ratio Lower Upper

114 100

63 24.9 0.0 45.6

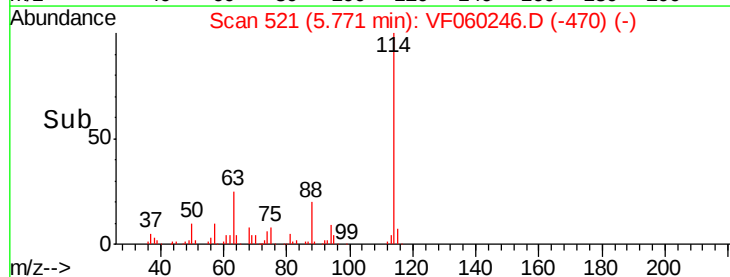
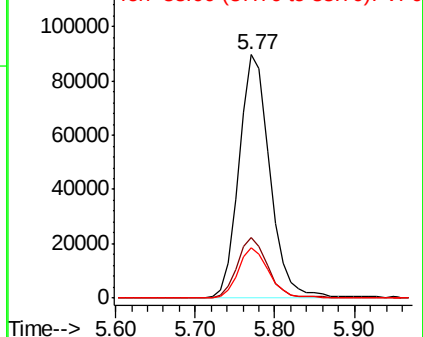
88 20.5 0.0 46.4

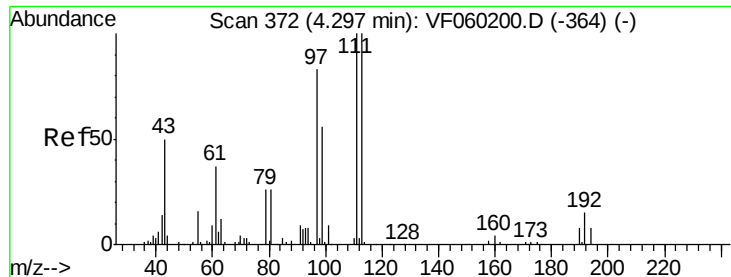


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

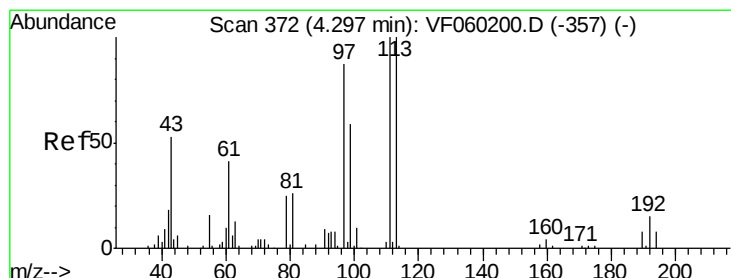
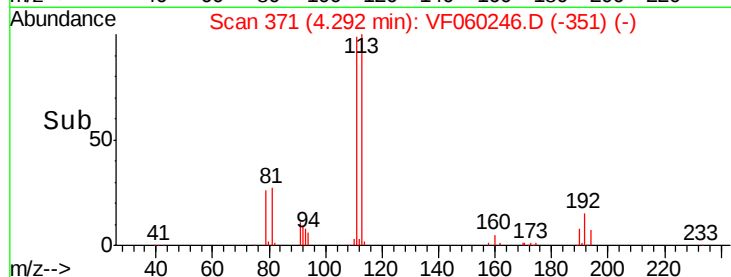
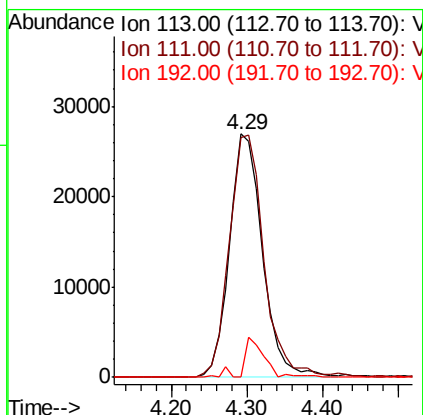
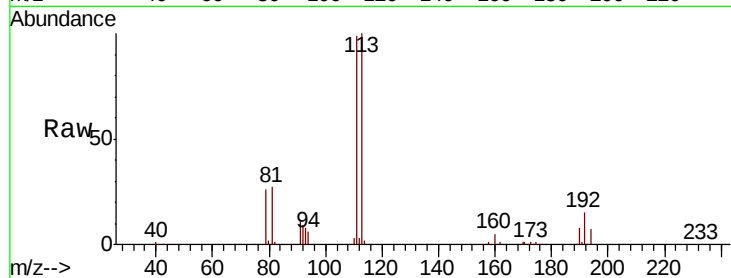




#35
 Dibromofluoromethane
 Concen: 34.53 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.00 min
 Lab File: VF060246.D
 Acq: 10 Sep 2018 20:28

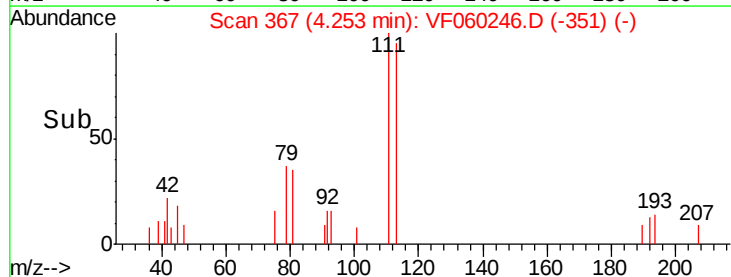
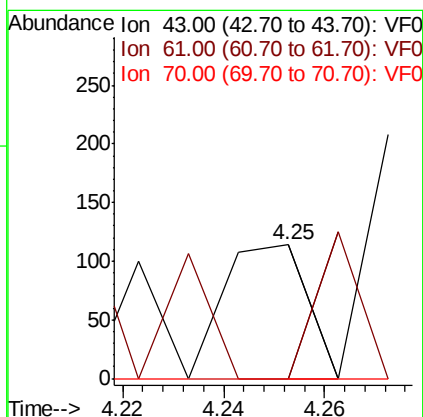
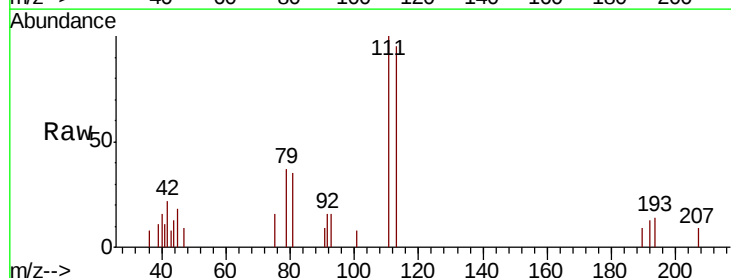
Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-090618

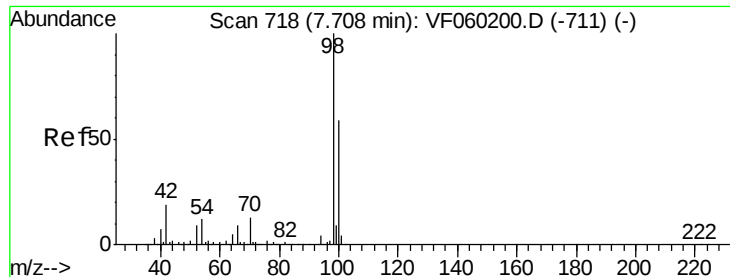
Tot Ion:113 Resp: 81389
 Ion Ratio Lower Upper
 113 100
 111 98.7 80.2 120.2
 192 0.0 11.8 17.8#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.25 min Scan# 367
 Delta R.T. -0.04 min
 Lab File: VF060246.D
 Acq: 10 Sep 2018 20:28

Tgt Ion: 43 Resp: 131
 Ion Ratio Lower Upper
 43 100
 61 0.0 61.6 92.4#
 70 0.0 6.9 10.3#

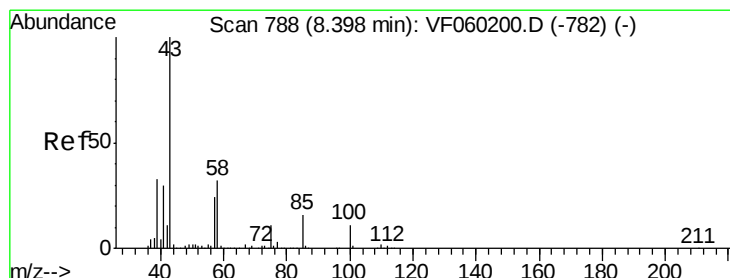
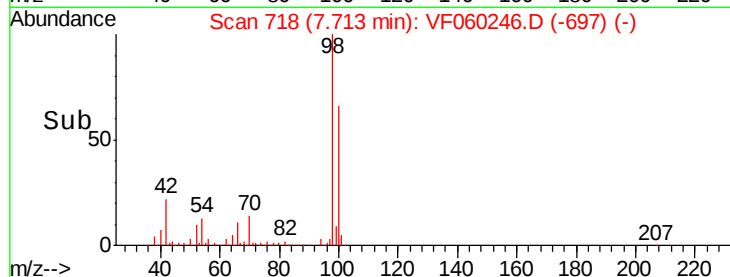
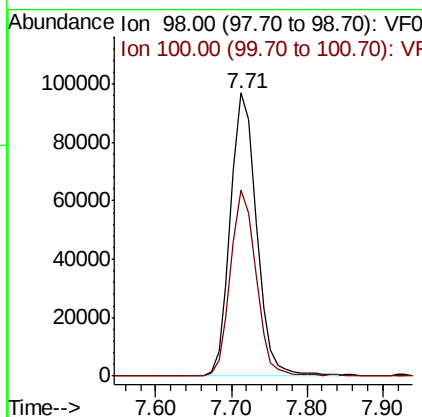
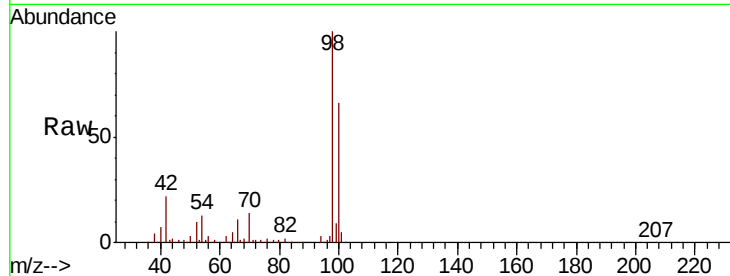




#50
Toluene-d8
Concen: 39.44 ug/l
RT: 7.71 min Scan# 718
Delta R.T. 0.01 min
Lab File: VF060246.D
Acq: 10 Sep 2018 20:28

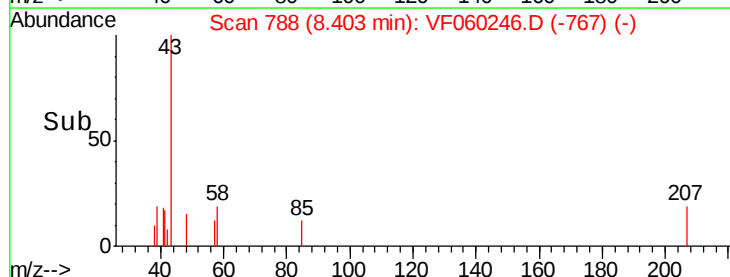
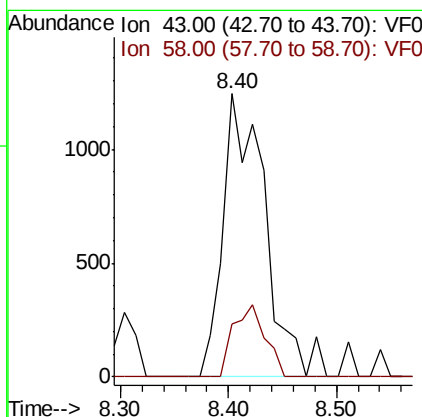
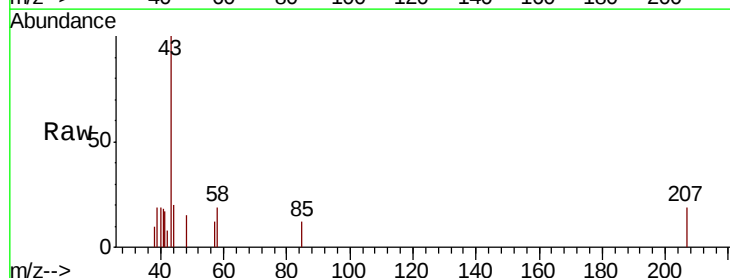
Instrument :
MSVOA_F
ClientSampleId :
OK-03-090618

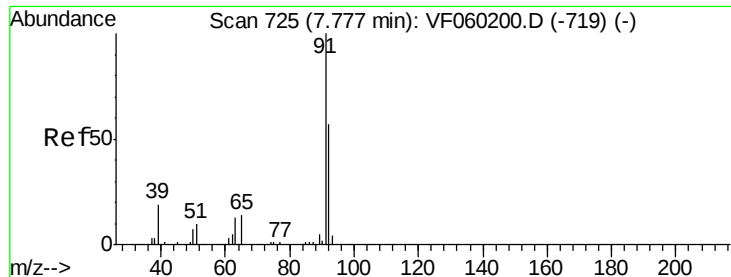
Tot Ion: 98 Resp: 232001
Ion Ratio Lower Upper
98 100
100 65.8 47.4 71.0



#51
4-Methyl-2-Pentanone
Concen: 2.30 ug/l
RT: 8.40 min Scan# 788
Delta R.T. 0.01 min
Lab File: VF060246.D
Acq: 10 Sep 2018 20:28

Tgt Ion: 43 Resp: 3360
Ion Ratio Lower Upper
43 100
58 18.7 25.8 38.6#

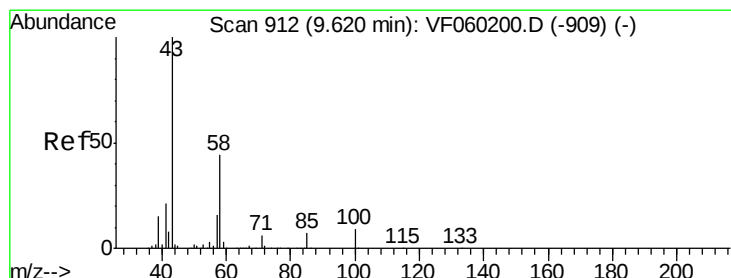
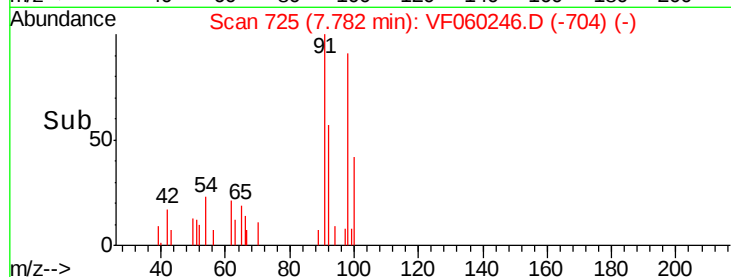
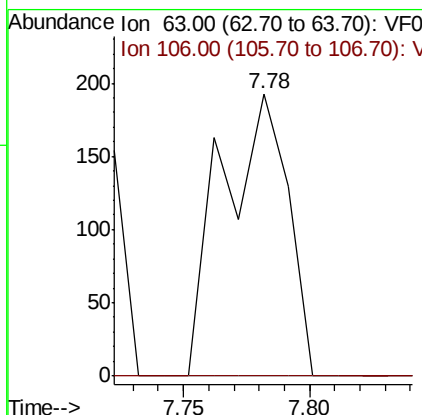
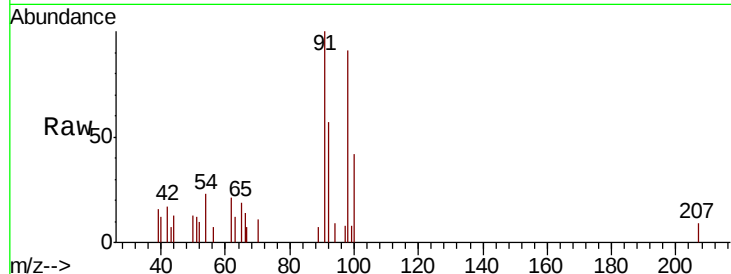




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.99 ug/l
 RT: 7.78 min Scan# 725
 Delta R.T. 0.01 min
 Lab File: VF060246.D
 Acq: 10 Sep 2018 20:28

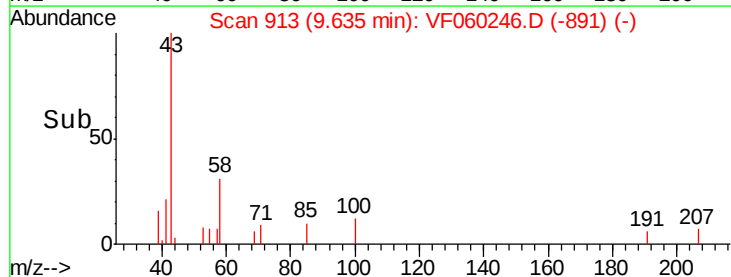
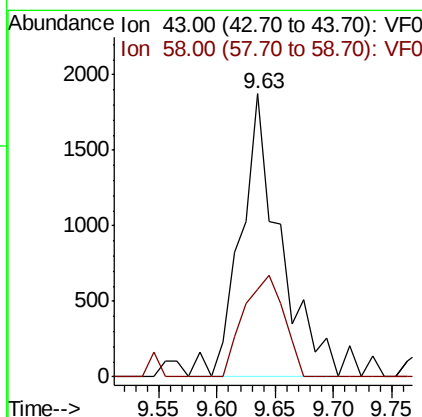
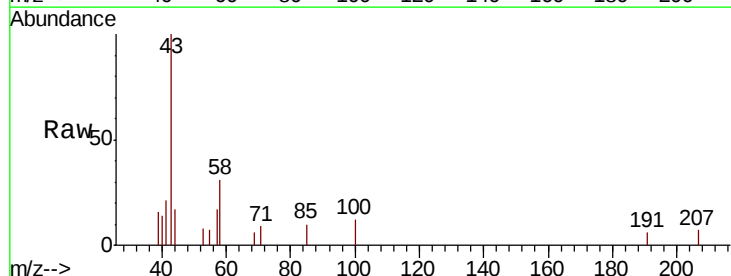
Instrument :
 MSVOA_F
 ClientSampleId :
 OK-03-090618

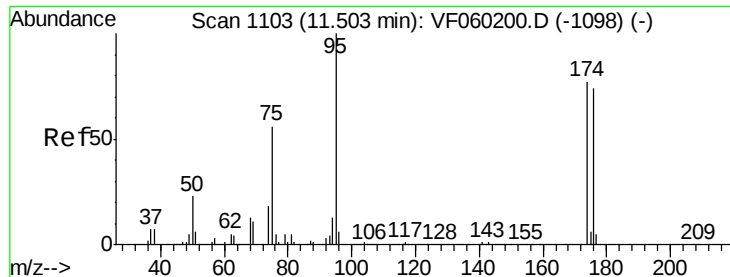
Tot Ion: 63 Resp: 351
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 2.86 ug/l
 RT: 9.63 min Scan# 913
 Delta R.T. 0.02 min
 Lab File: VF060246.D
 Acq: 10 Sep 2018 20:28

Tgt Ion: 43 Resp: 4404
 Ion Ratio Lower Upper
 43 100
 58 30.9 20.8 62.5

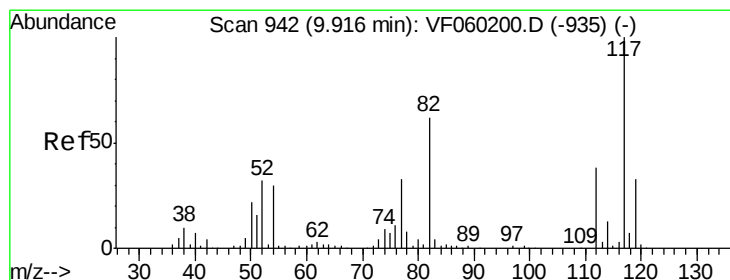
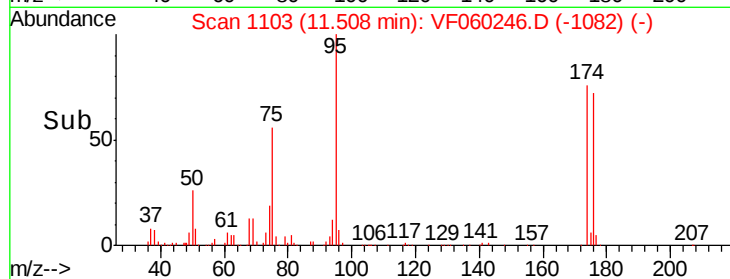
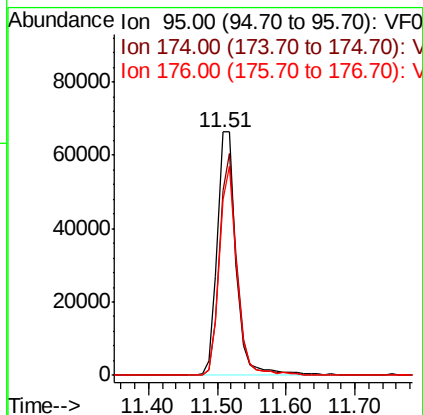
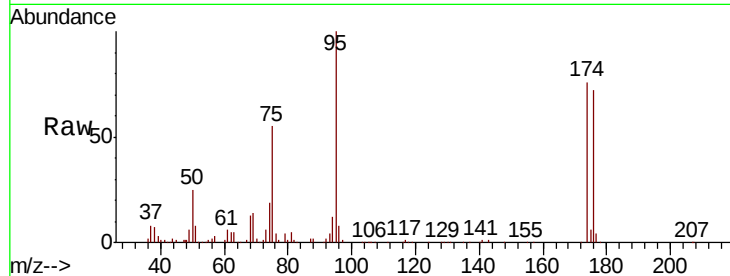




#62
4-Bromofluorobenzene
Concen: 38.54 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VF060246.D
Acq: 10 Sep 2018 20:28

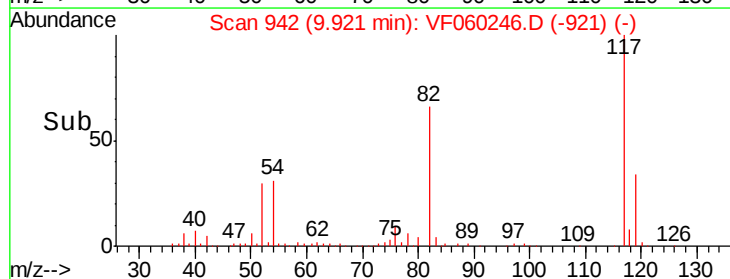
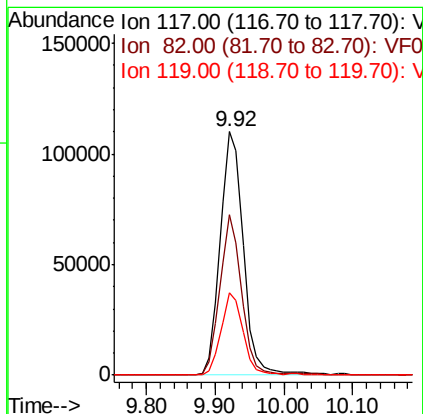
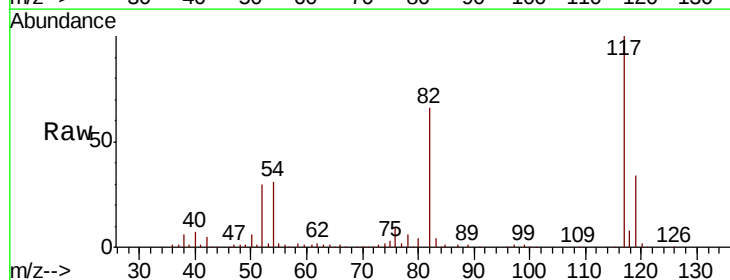
Instrument :
MSVOA_F
ClientSampleId :
OK-03-090618

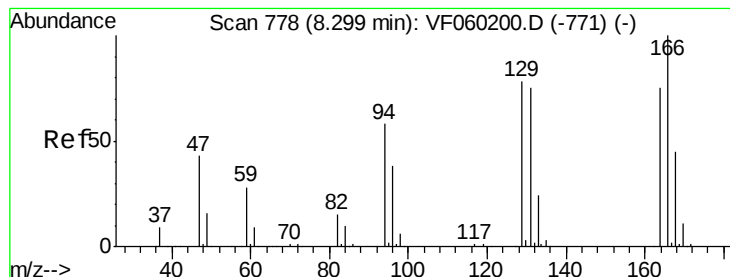
Tot Ion: 95 Resp: 127908
Ion Ratio Lower Upper
95 100
174 76.1 0.0 153.2
176 72.1 0.0 147.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.01 min
Lab File: VF060246.D
Acq: 10 Sep 2018 20:28

Tgt Ion: 117 Resp: 257207
Ion Ratio Lower Upper
117 100
82 65.9 49.3 73.9
119 33.7 26.5 39.7





#64

Tetrachloroethene

Concen: Below Cal

RT: 8.30 min Scan# 778

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

OK-03-090618

Tot Ion:164 Resp: 397

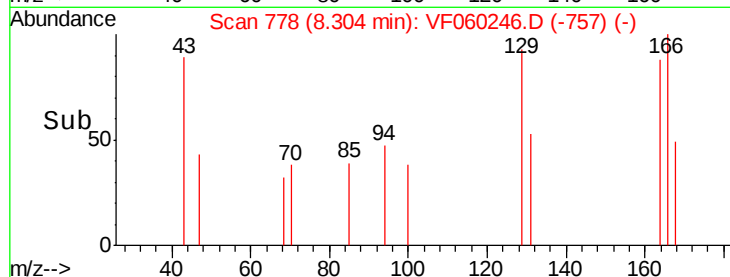
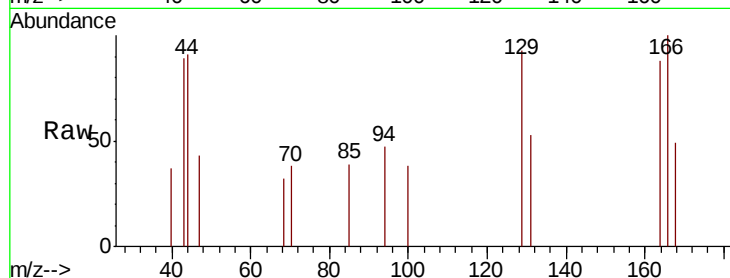
Ion Ratio Lower Upper

164 100

166 114.0 107.0 160.4

129 105.7 83.0 124.6

131 60.2 79.8 119.8#

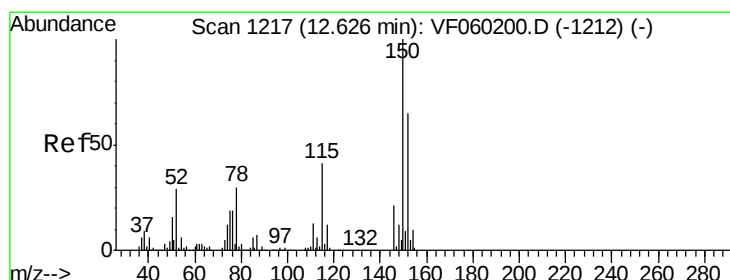
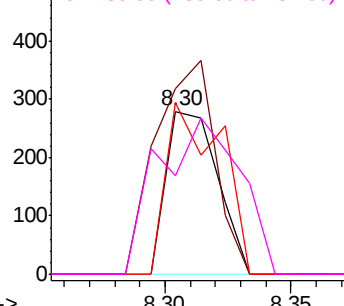


Abundance Ion 163.85 (163.55 to 164.55): V

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: 50.00 ug/l

RT: 12.63 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

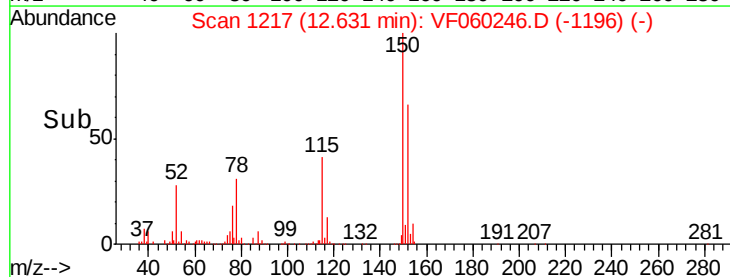
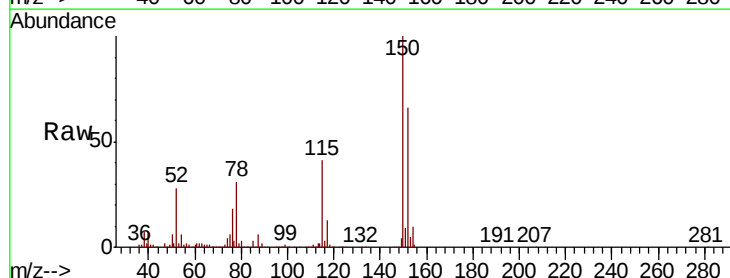
Tgt Ion:152 Resp: 154610

Ion Ratio Lower Upper

152 100

115 62.1 31.5 94.5

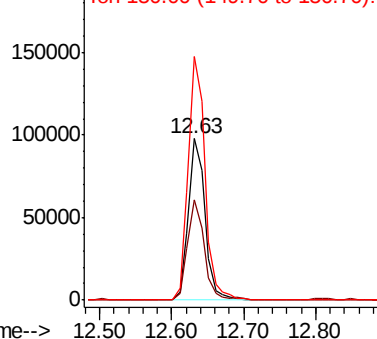
150 151.0 0.0 310.4

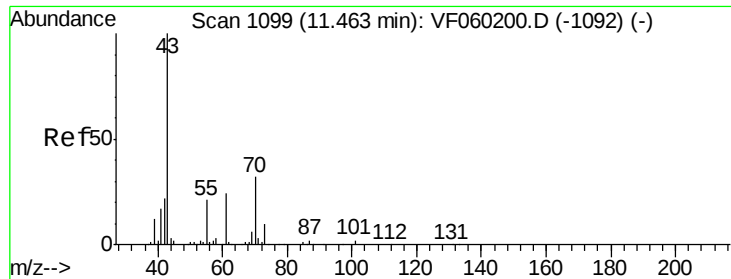


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 5.20 ug/l

RT: 11.47 min Scan# 1099

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

OK-03-090618

Tot Ion: 43 Resp: 959

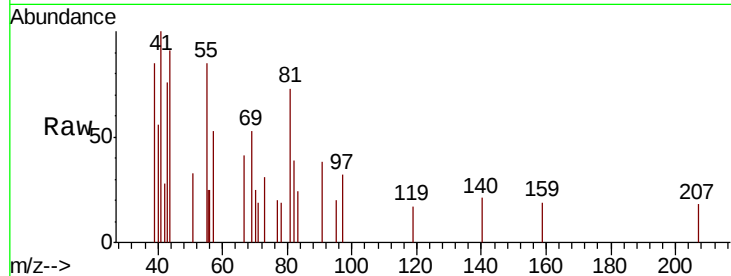
Ion Ratio Lower Upper

43 100

70 32.4 25.8 38.6

55 143.0 16.8 25.2#

61 0.0 18.9 28.3#

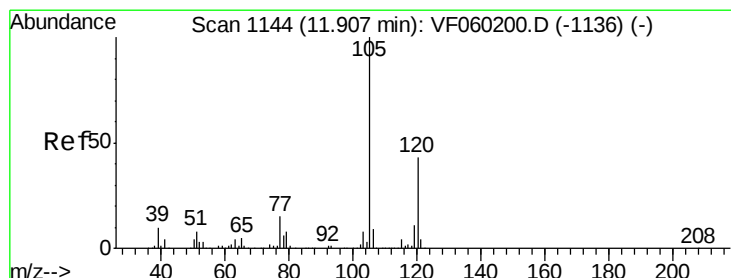
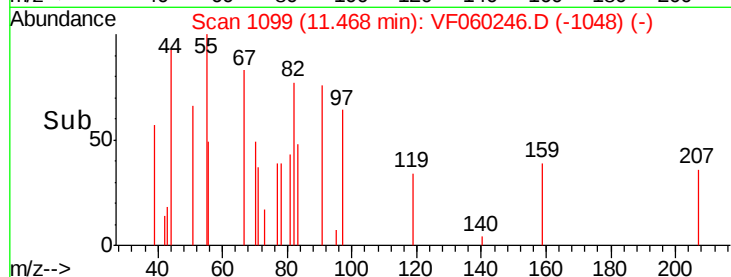
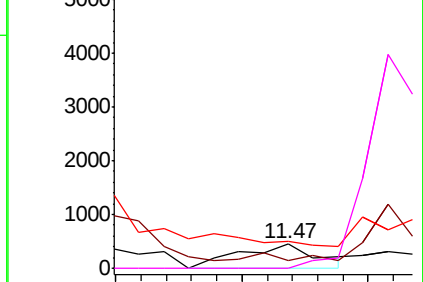


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#80

1,3,5-Trimethylbenzene

Concen: 2.23 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF060246.D

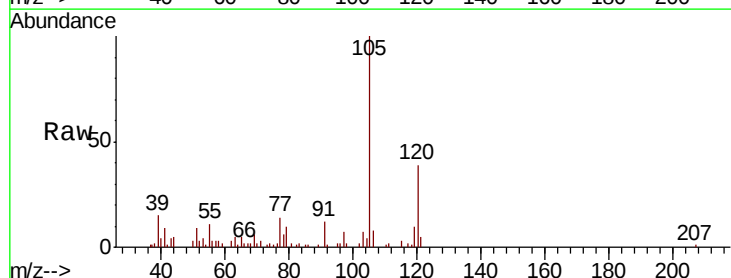
Acq: 10 Sep 2018 20:28

Tgt Ion:105 Resp: 20980

Ion Ratio Lower Upper

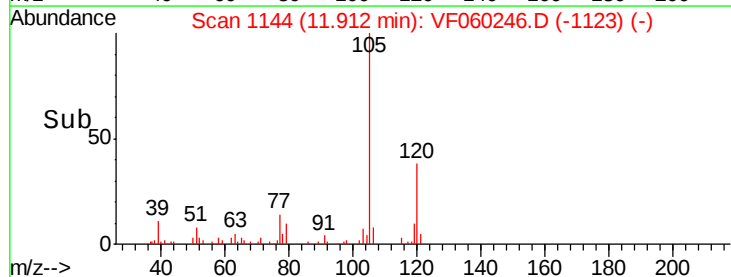
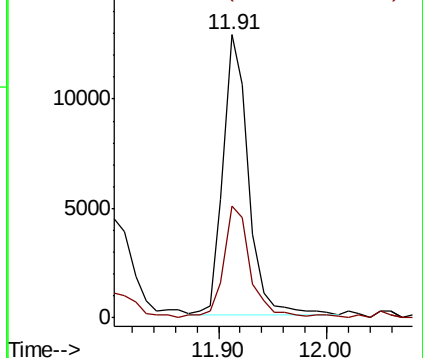
105 100

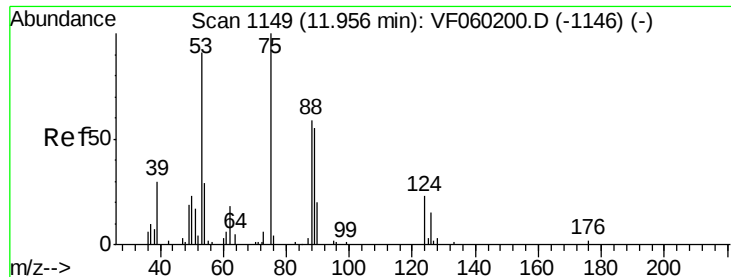
120 39.4 21.6 64.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.53 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

OK-03-090618

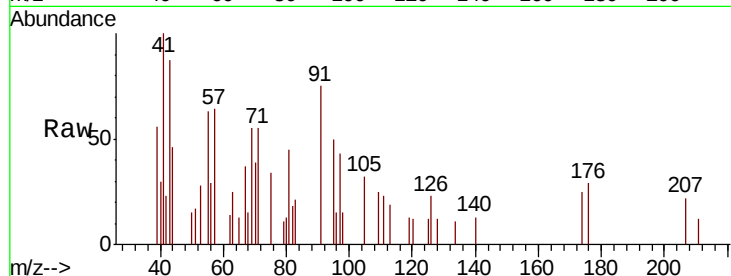
Tot Ion: 75 Resp: 413

Ion Ratio Lower Upper

75 100

53 80.6 76.5 114.7

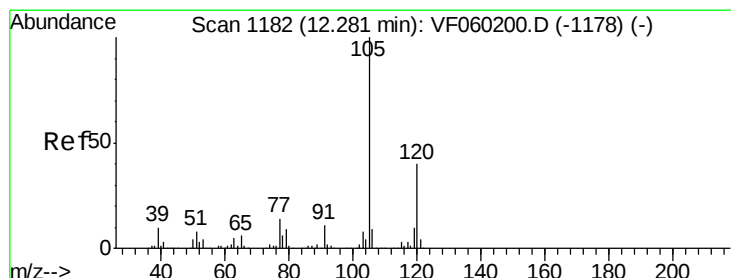
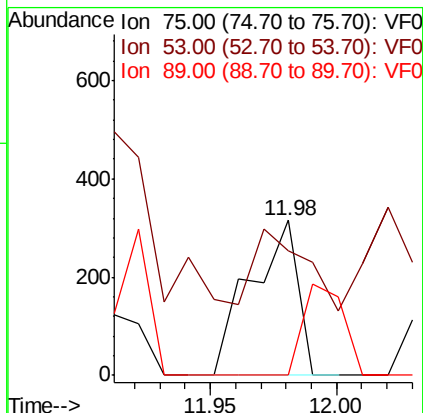
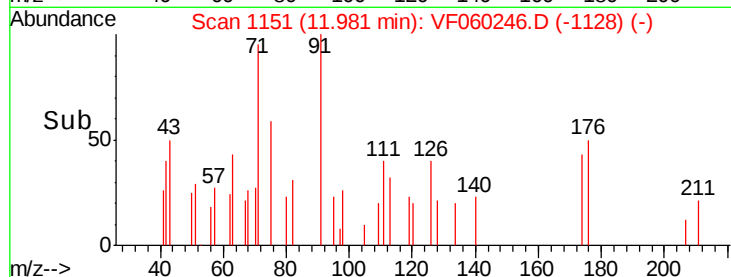
89 0.0 46.5 69.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.91 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VF060246.D

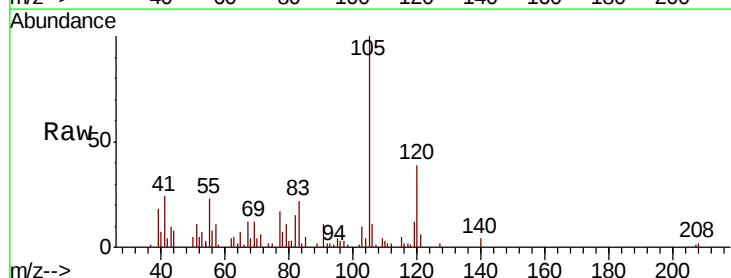
Acq: 10 Sep 2018 20:28

Tgt Ion: 105 Resp: 18278

Ion Ratio Lower Upper

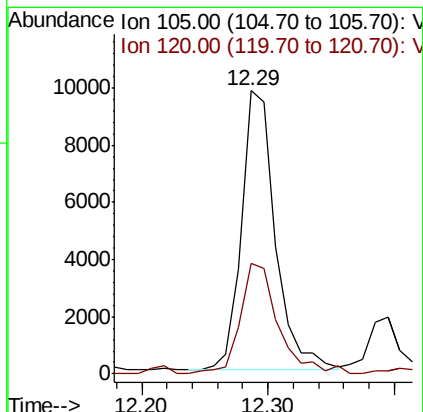
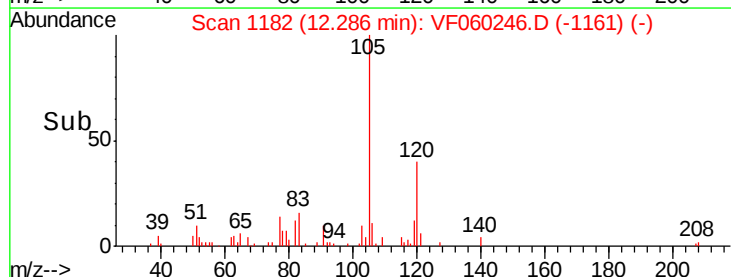
105 100

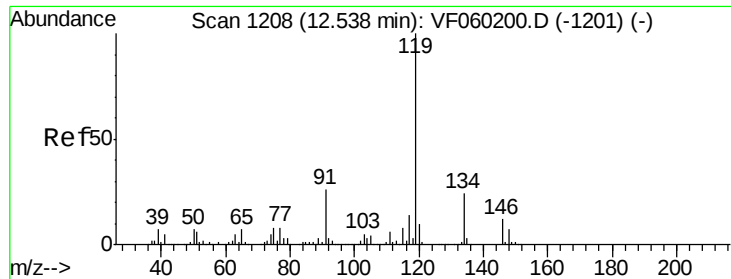
120 39.0 20.2 60.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

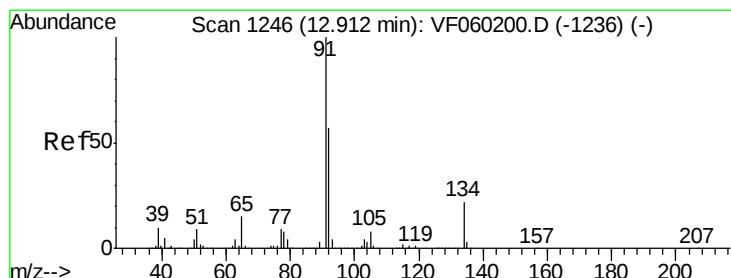
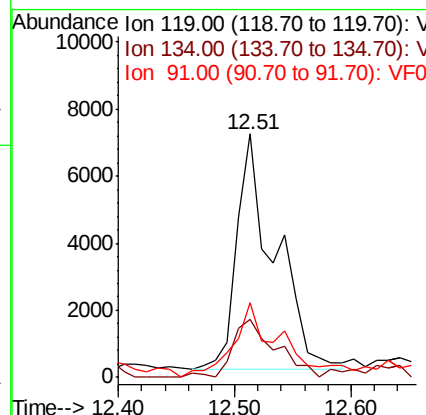
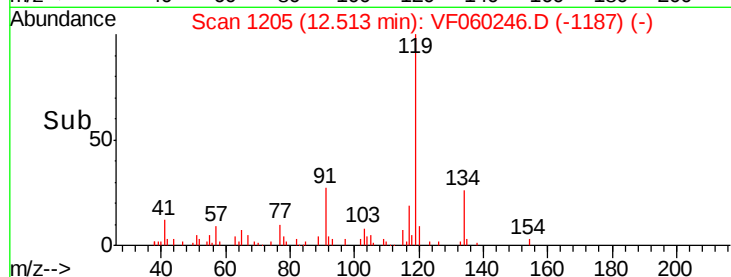
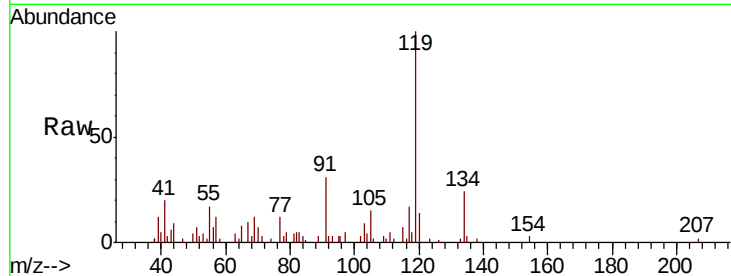




#86
p-Isopropyltoluene
Concen: 1.51 ug/l
RT: 12.51 min Scan# 1205
Delta R.T. -0.02 min
Lab File: VF060246.D
Acq: 10 Sep 2018 20:28

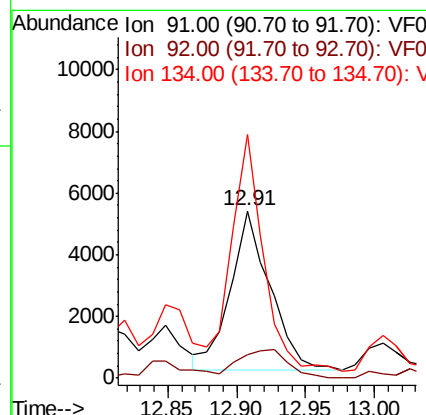
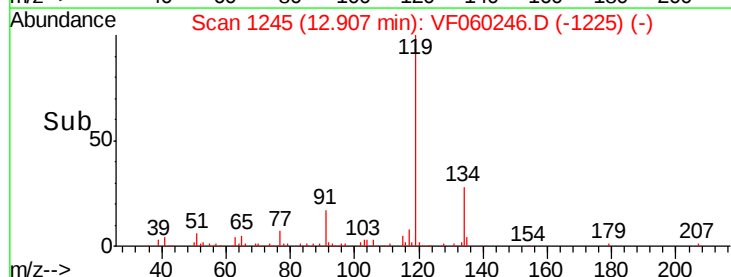
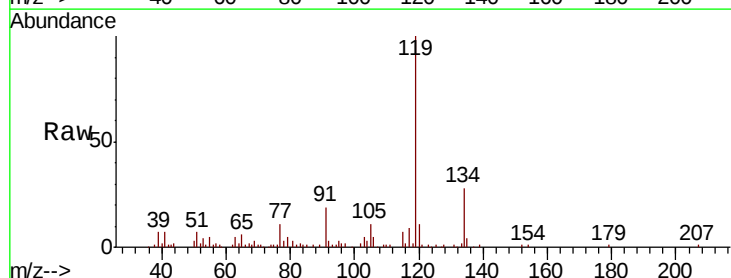
Instrument :
MSVOA_F
ClientSampleId :
OK-03-090618

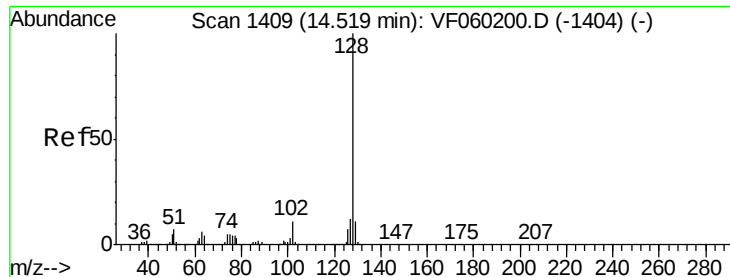
Tot Ion	Ratio	Lower	Upper
119	100		
134	23.9	12.0	36.0
91	30.5	12.9	38.7



#89
n-Butylbenzene
Concen: 1.01 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF060246.D
Acq: 10 Sep 2018 20:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	13.8	28.4	85.3#
134	145.6	11.1	33.3#





#95

Naphthalene

Concen: 3.66 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.01 min

Lab File: VF060246.D

Acq: 10 Sep 2018 20:28

Instrument :

MSVOA_F

ClientSampleId :

OK-03-090618

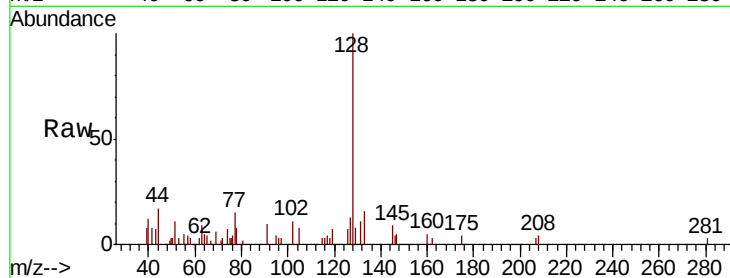
Tot Ion:128 Resp: 6471

Ion Ratio Lower Upper

128 100

127 12.5 9.9 14.9

129 8.0 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

