

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010719\
 Data File : VF061277.D
 Acq On : 7 Jan 2019 14:13
 Operator : VA/AP
 Sample : K1012-01
 Misc : 6.31g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-010419-A

Quant Time: Jan 08 00:15:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010319S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 03:27:18 2019
 Response via : Initial Calibration

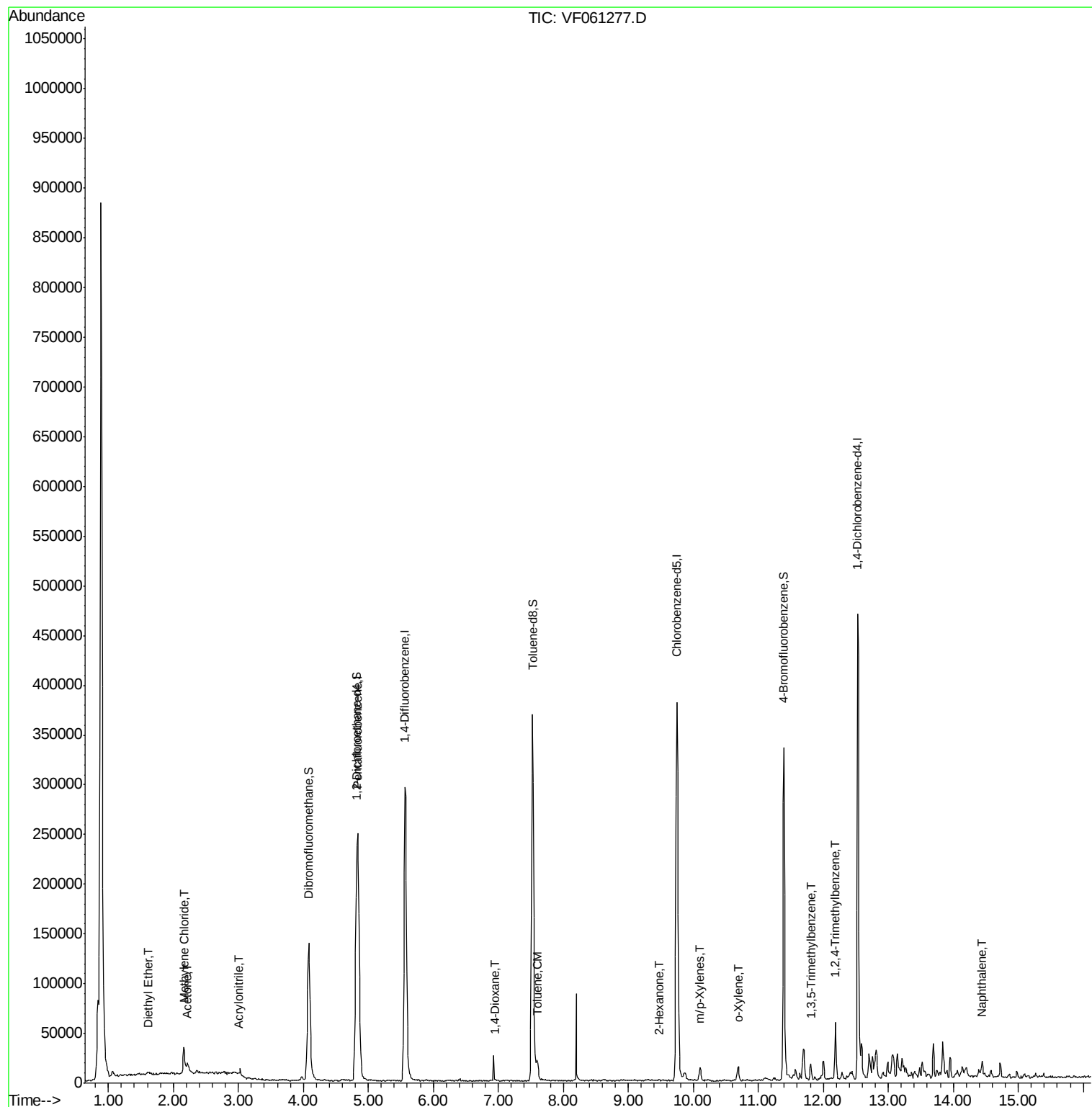
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	182589	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.56	114	338314	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	270583	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	119815	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	110311	47.59	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	95.18%	
35) Dibromofluoromethane	4.09	113	131520	50.53	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	101.06%	
50) Toluene-d8	7.53	98	312399	40.45	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	80.90%	
62) 4-Bromofluorobenzene	11.39	95	132178	38.62	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	77.24%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.62	74	688	1.152	ug/l	93
15) Acrylonitrile	3.00	53	571	2.184	ug/l	86
16) Acetone	2.22	43	8245	1.855	ug/l	98
18) Methyl Acetate	2.33	43	713	Below Cal	#	59
20) Methylene Chloride	2.16	84	14229	3.338	ug/l	94
25) 2-Butanone	4.32	43	1500	Below Cal	#	62
29) Tetrahydrofuran	4.05	42	672	Below Cal	#	47
41) Methacrylonitrile	4.73	41	266	Below Cal	#	40
49) 1,4-Dioxane	6.95	88	89	9.345	ug/l #	1
51) 4-Methyl-2-Pentanone	8.20	43	1018	Below Cal	#	38
52) Toluene	7.60	92	9625	1.630	ug/l	89
59) 2-Hexanone	9.46	43	1822	1.707	ug/l	68
68) m/p-Xylenes	10.10	106	4425	1.199	ug/l	99
69) o-Xylene	10.68	106	4049	1.014	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	8849	1.077	ug/l	90
84) 1,2,4-Trimethylbenzene	12.18	105	28109	3.436	ug/l	99
89) n-Butylbenzene	12.82	91	8850	Below Cal		78
95) Naphthalene	14.44	128	6311	1.211	ug/l #	95

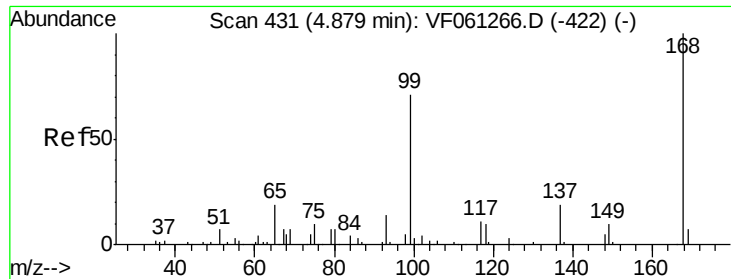
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jan 04 03:27:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.03 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Instrument :

MSVOA_F

ClientSampleId :

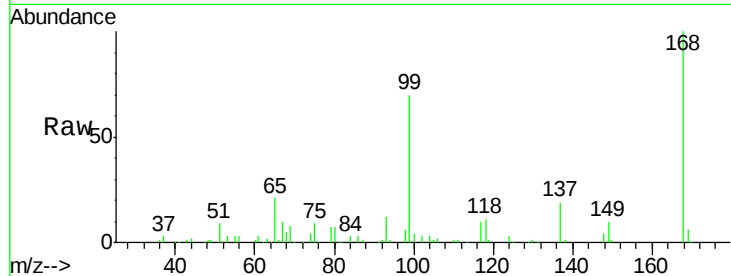
EO-02-010419-A

Tot Ion:168 Resp: 182589

Ion Ratio Lower Upper

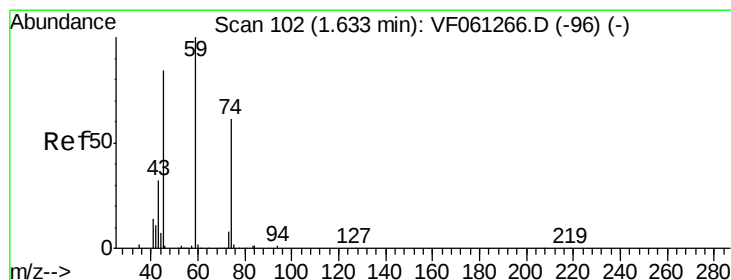
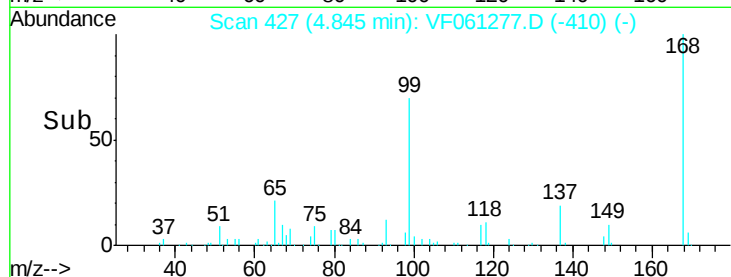
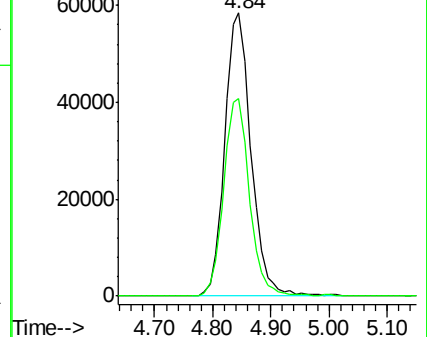
168 100

99 69.9 57.0 85.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 1.152 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.01 min

Lab File: VF061277.D

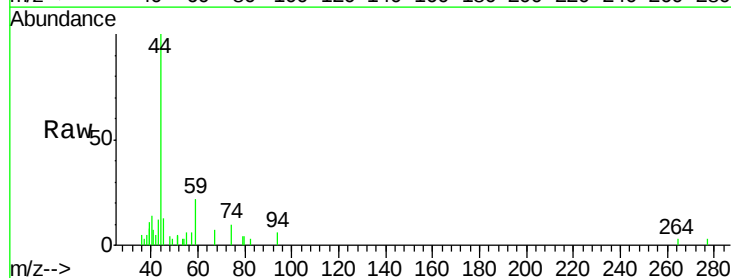
Acq: 7 Jan 2019 14:13

Tgt Ion: 74 Resp: 688

Ion Ratio Lower Upper

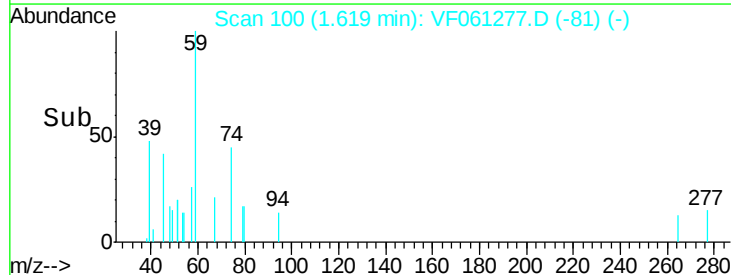
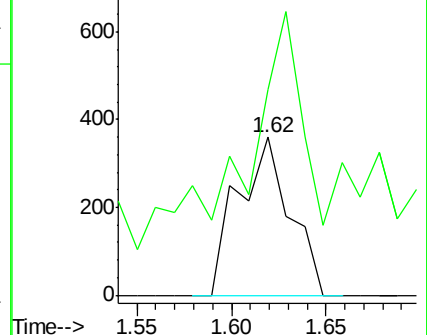
74 100

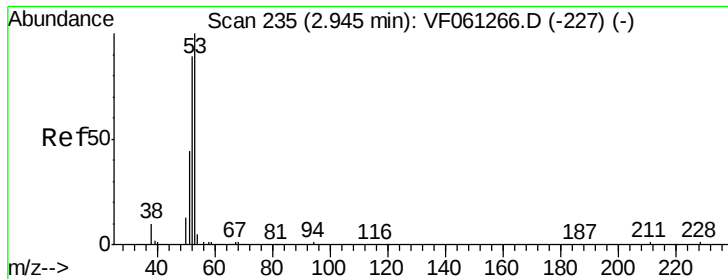
45 130.0 69.0 207.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#15

Acrylonitrile

Concen: 2.184 ug/l

RT: 3.00 min Scan# 240

Delta R.T. 0.05 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-A

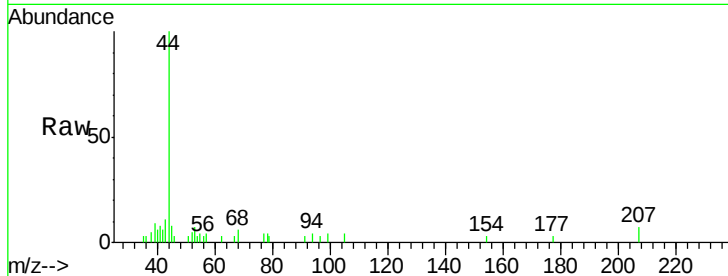
Tot Ion: 53 Resp: 571

Ion Ratio Lower Upper

53 100

52 71.5 71.3 106.9

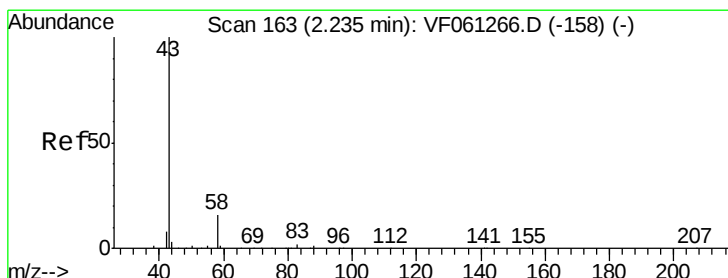
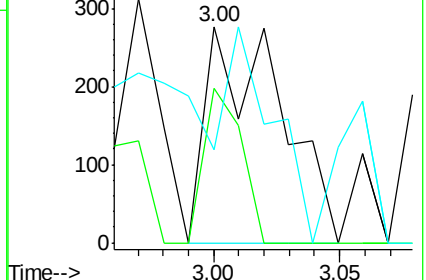
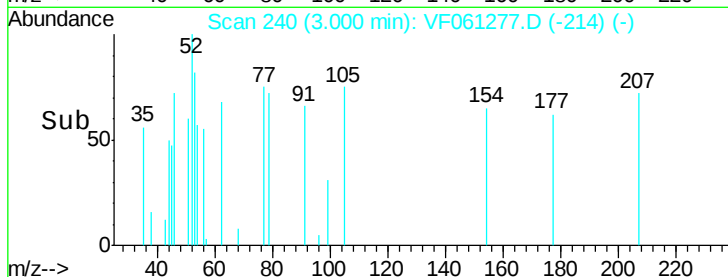
51 43.0 36.2 54.4



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 1.855 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.01 min

Lab File: VF061277.D

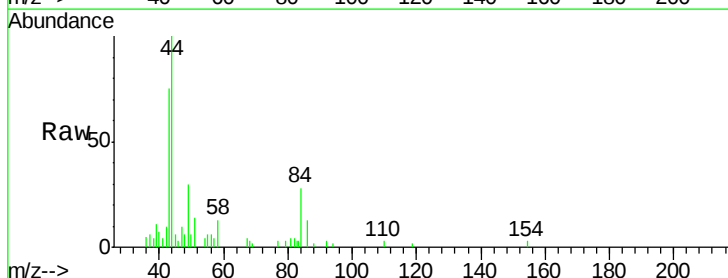
Acq: 7 Jan 2019 14:13

Tgt Ion: 43 Resp: 8245

Ion Ratio Lower Upper

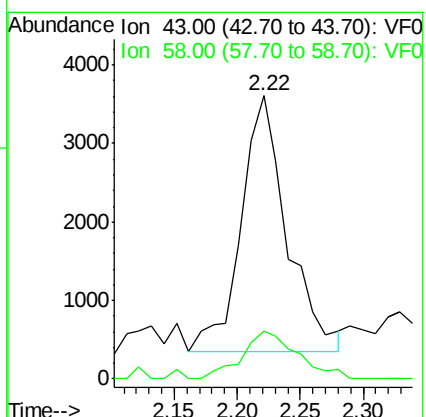
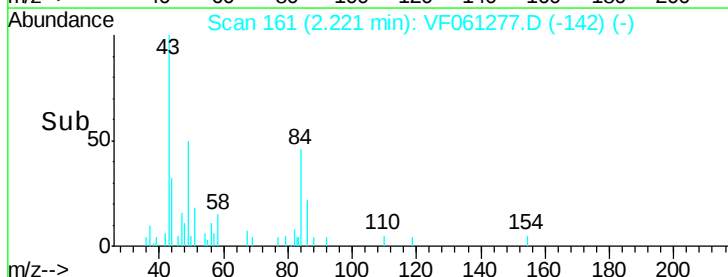
43 100

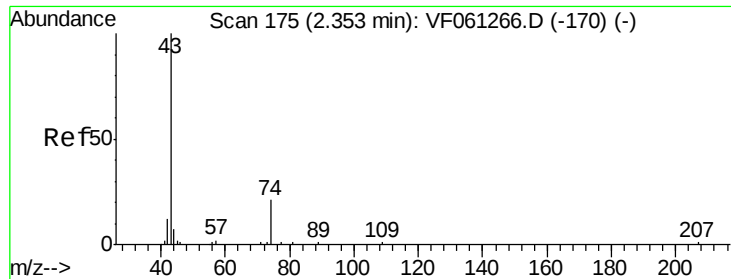
58 16.9 13.0 19.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

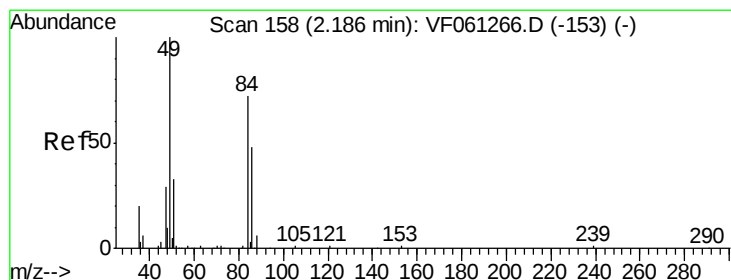
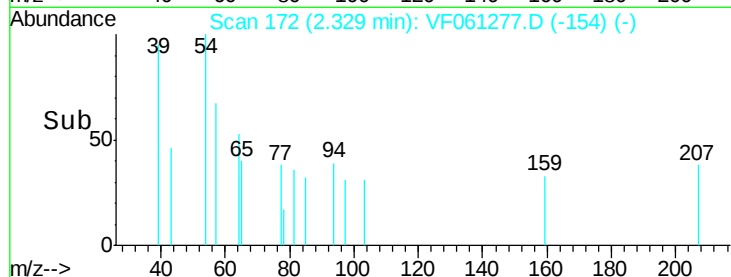
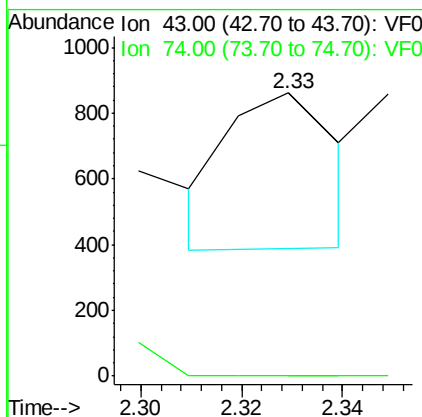
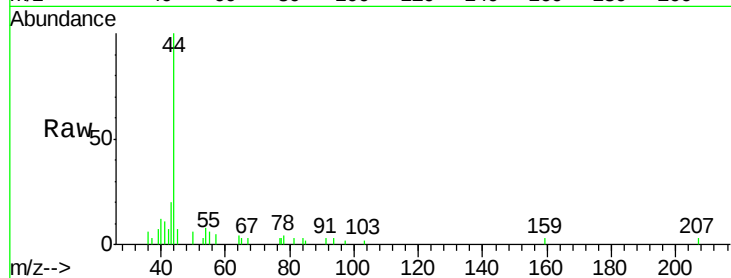




#18
Methvl Acetate
Concen: Below Cal
RT: 2.33 min Scan# 172
Delta R.T. -0.02 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

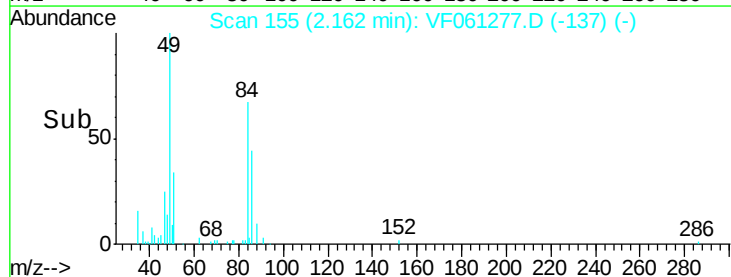
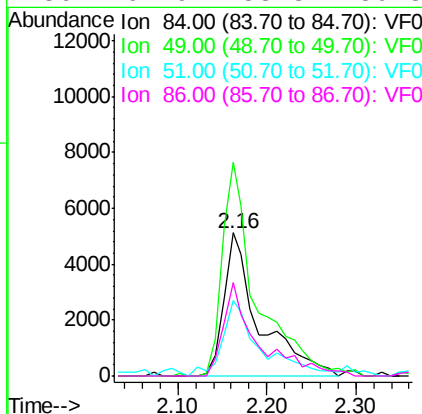
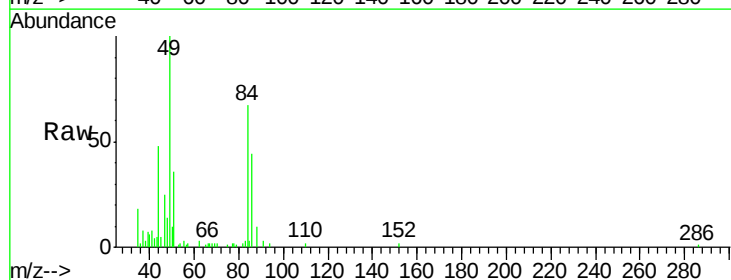
Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-A

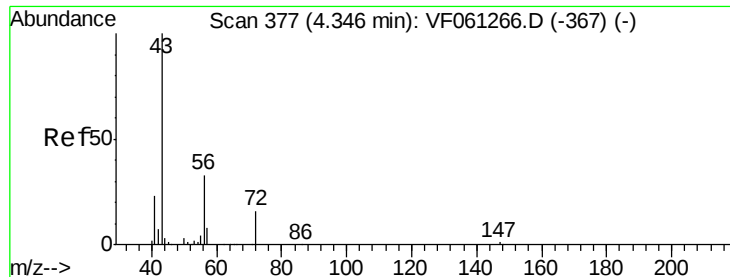
Tot Ion: 43 Resp: 713
Ion Ratio Lower Upper
43 100
74 0.0 14.4 21.6#



#20
Methylene Chloride
Concen: 3.338 ug/l
RT: 2.16 min Scan# 155
Delta R.T. -0.02 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

Tgt Ion: 84 Resp: 14229
Ion Ratio Lower Upper
84 100
49 149.3 112.9 169.3
51 53.2 37.9 56.9
86 64.9 53.8 80.8





#25

2-Butanone

Concen: Below Cal

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Instrument :

MSVOA_F

ClientSampleId :

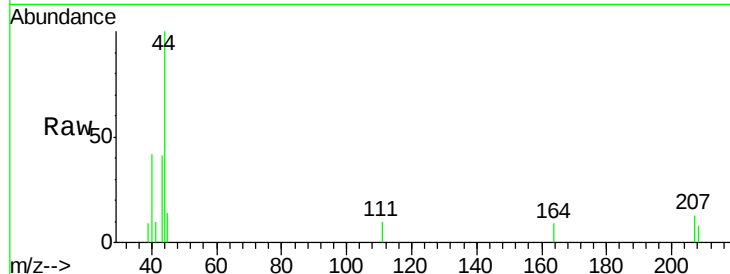
EO-02-010419-A

Tot Ion: 43 Resp: 1500

Ion Ratio Lower Upper

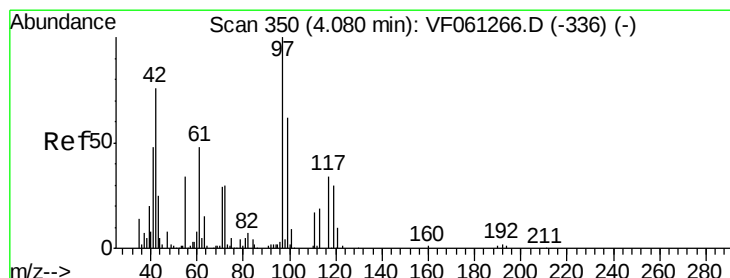
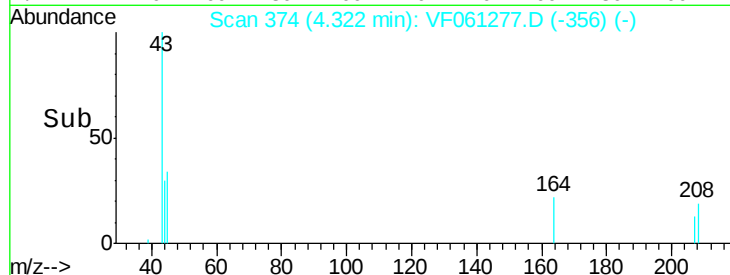
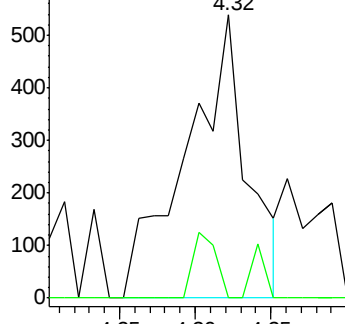
43 100

72 0.0 13.0 19.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.05 min Scan# 346

Delta R.T. -0.03 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

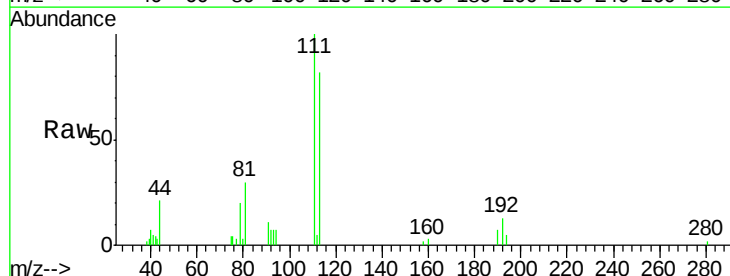
Tgt Ion: 42 Resp: 672

Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

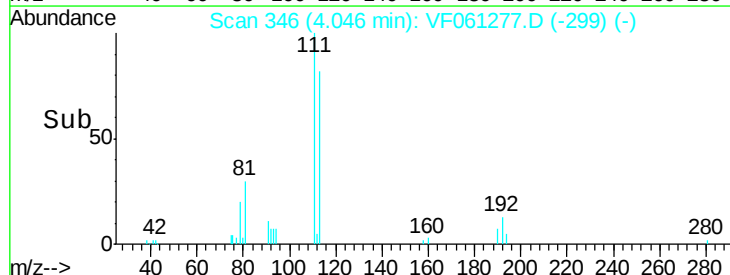
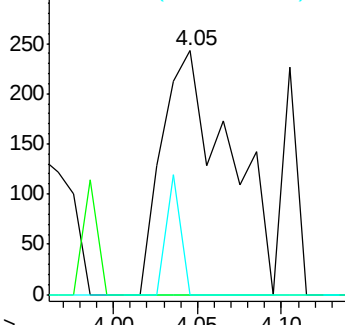
71 10.4 29.1 43.7#

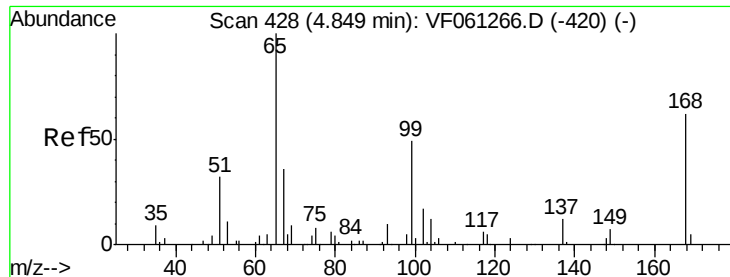


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

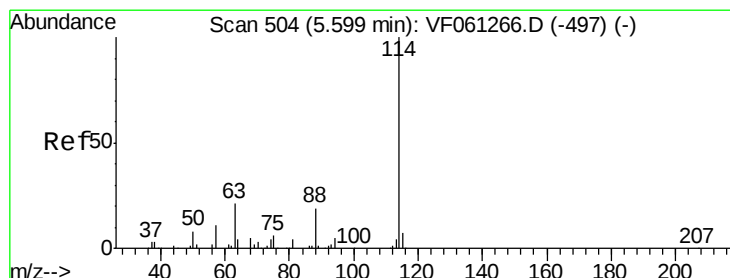
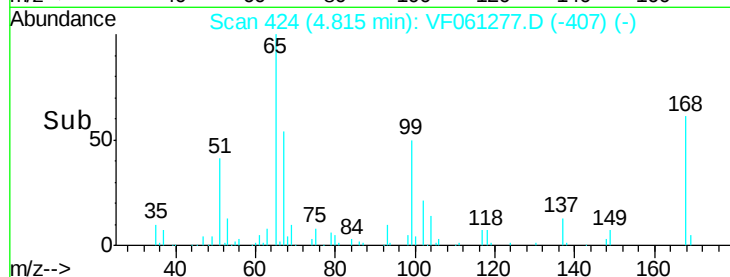
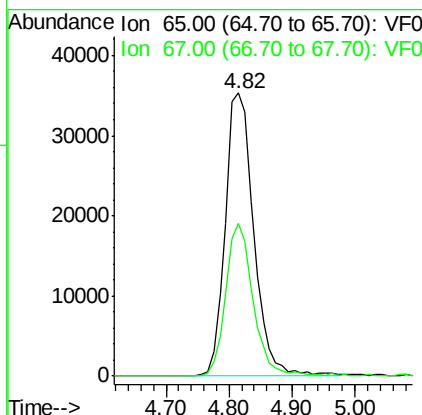
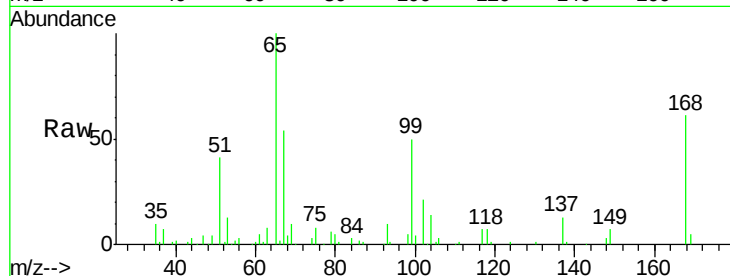




#33
 1,2-Dichloroethane-d4
 Concen: 47.594 ug/l
 RT: 4.82 min Scan# 424
 Delta R.T. -0.03 min
 Lab File: VF061277.D
 Acq: 7 Jan 2019 14:13

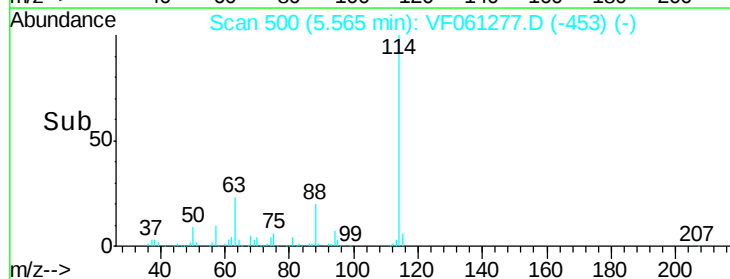
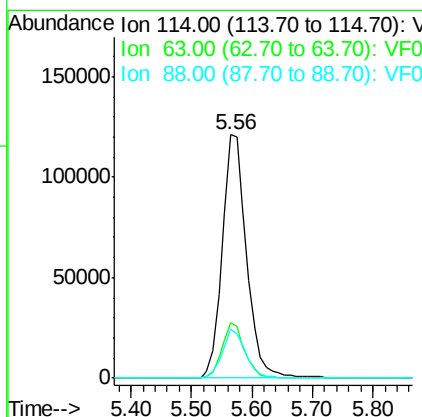
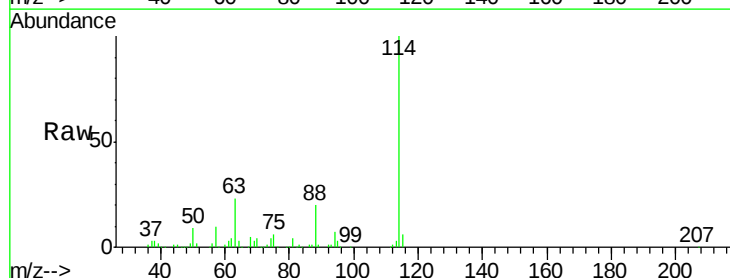
Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-010419-A

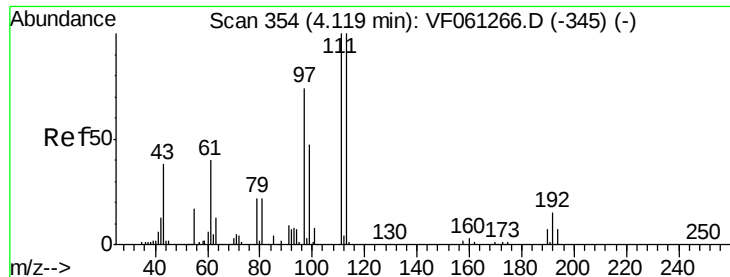
Tot Ion: 65 Resp: 110311
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 90.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.56 min Scan# 500
 Delta R.T. -0.03 min
 Lab File: VF061277.D
 Acq: 7 Jan 2019 14:13

Tgt Ion: 114 Resp: 338314
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 41.8
 88 20.1 0.0 38.4





#35

Dibromofluoromethane

Concen: 50.530 ug/l

RT: 4.09 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-A

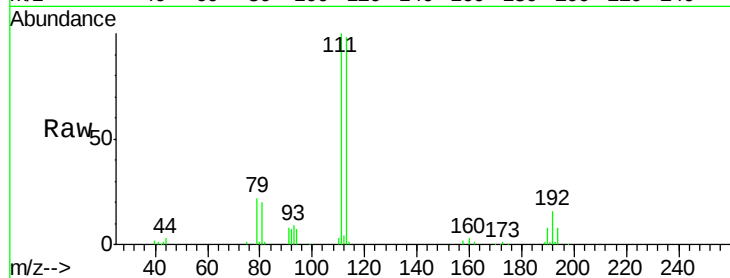
Tot Ion:113 Resp: 131520

Ion Ratio Lower Upper

113 100

111 102.1 79.8 119.6

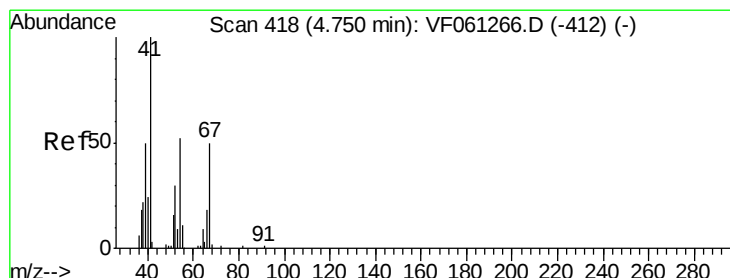
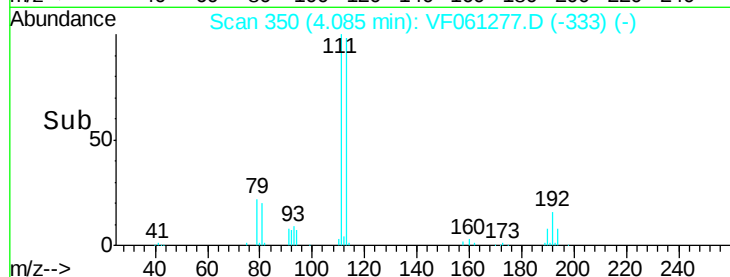
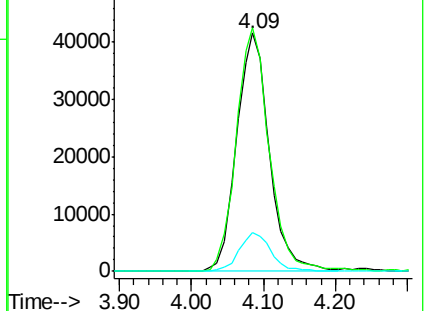
192 16.4 11.9 17.9



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.73 min Scan# 415

Delta R.T. -0.02 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Tgt Ion: 41 Resp: 266

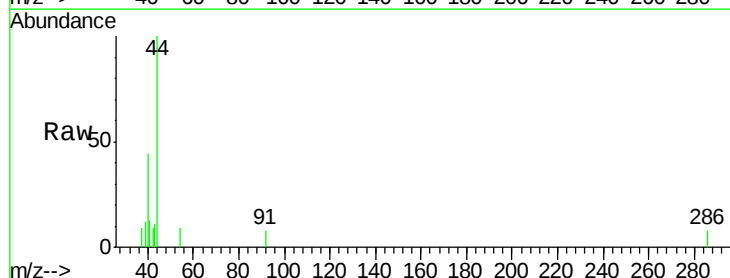
Ion Ratio Lower Upper

41 100

39 87.6 44.6 66.8#

67 0.0 39.3 58.9#

52 0.0 35.3 52.9#

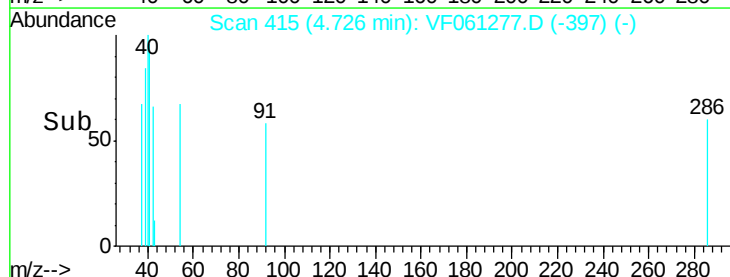
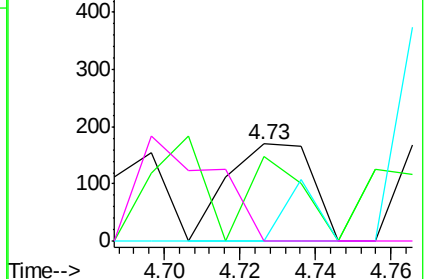


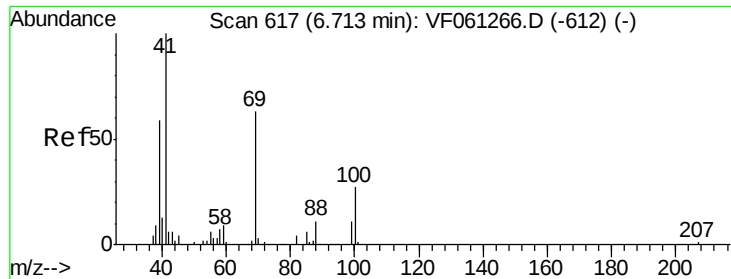
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

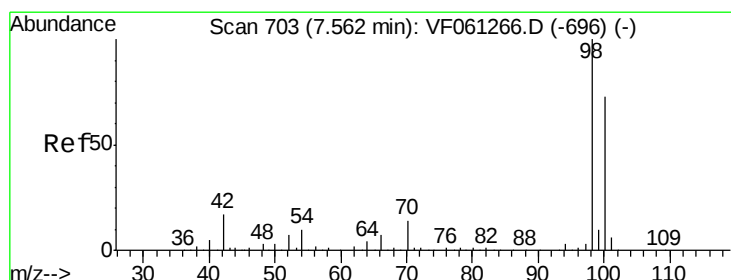
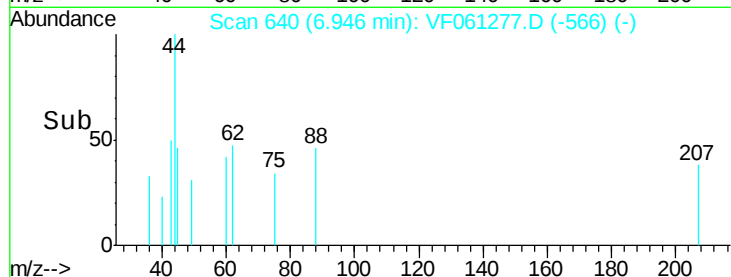
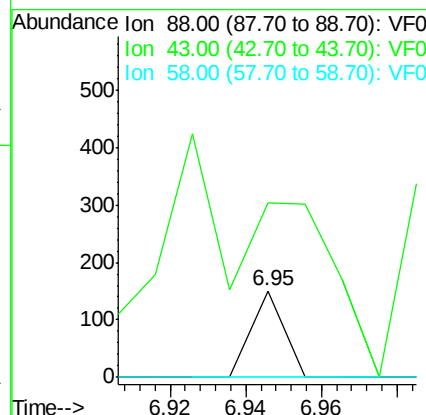
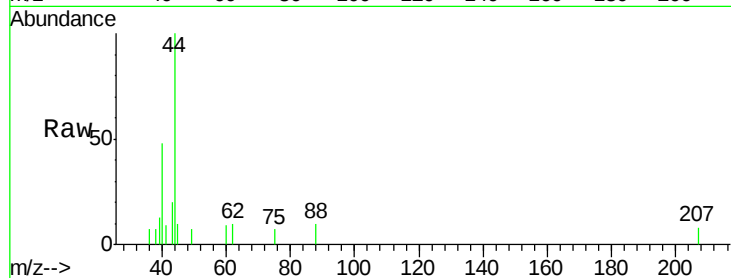




#49
1,4-Dioxane
Concen: 9.345 ug/l
RT: 6.95 min Scan# 640
Delta R.T. 0.23 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

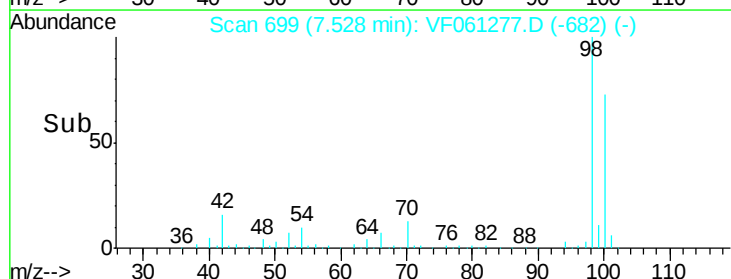
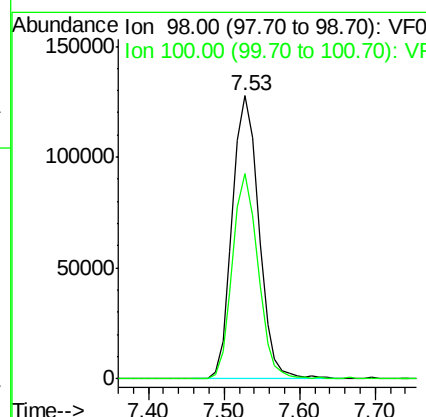
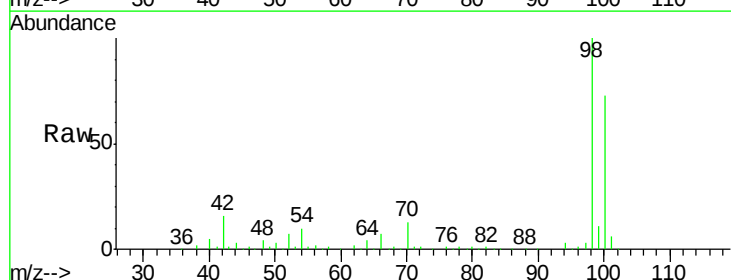
Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-A

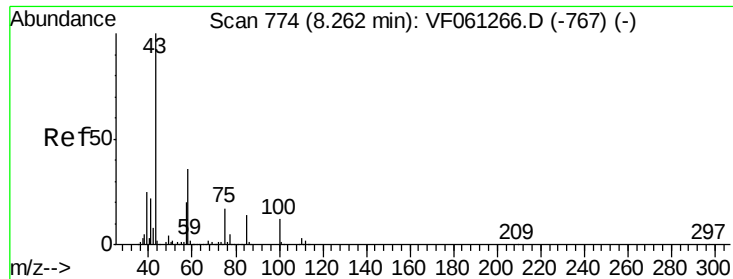
Tot Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 200.7 55.2 82.8#
58 0.0 50.9 76.3#



#50
Toluene-d8
Concen: 40.446 ug/l
RT: 7.53 min Scan# 699
Delta R.T. -0.03 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

Tgt Ion: 98 Resp: 312399
Ion Ratio Lower Upper
98 100
100 72.7 58.1 87.1





#51

4-Methyl-2-Pentanone

Concen: Below Cal

RT: 8.20 min Scan# 767

Delta R.T. -0.06 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Instrument :

MSVOA_F

ClientSampleId :

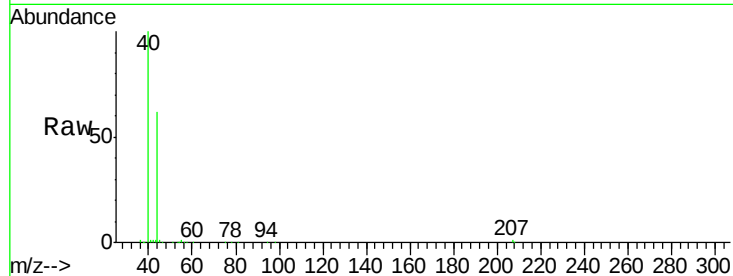
EO-02-010419-A

Tot Ion: 43 Resp: 1018

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.20

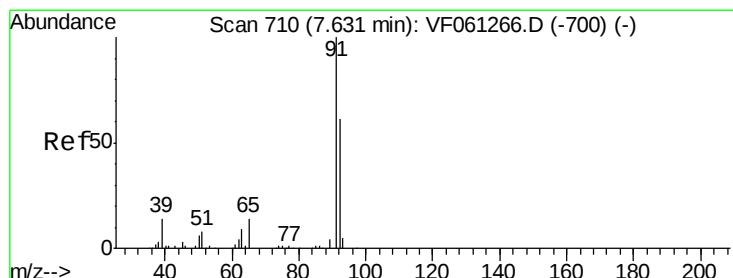
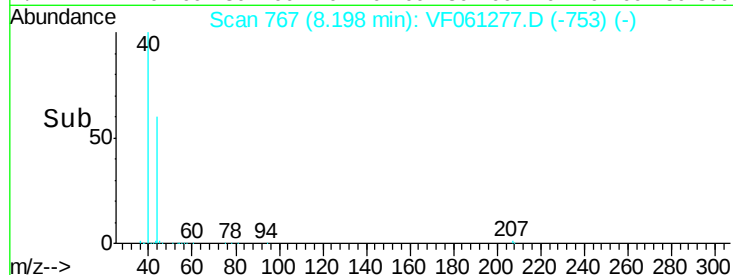
600

400

200

0

Time--> 8.16 8.18 8.20 8.22



#52

Toluene

Concen: 1.630 ug/l

RT: 7.60 min Scan# 706

Delta R.T. -0.03 min

Lab File: VF061277.D

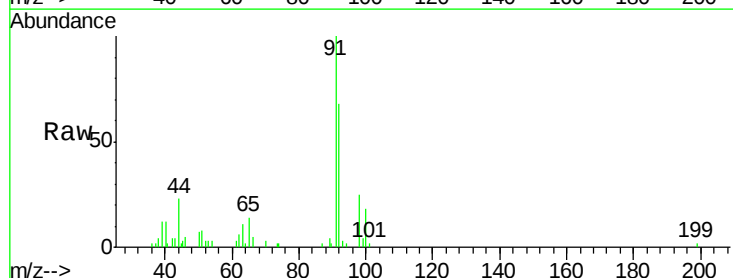
Acq: 7 Jan 2019 14:13

Tgt Ion: 92 Resp: 9625

Ion Ratio Lower Upper

92 100

91 147.8 130.5 195.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.60

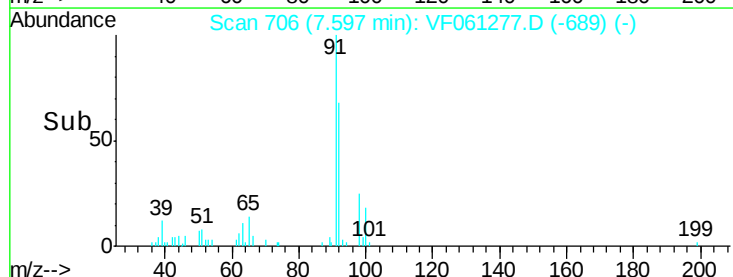
6000

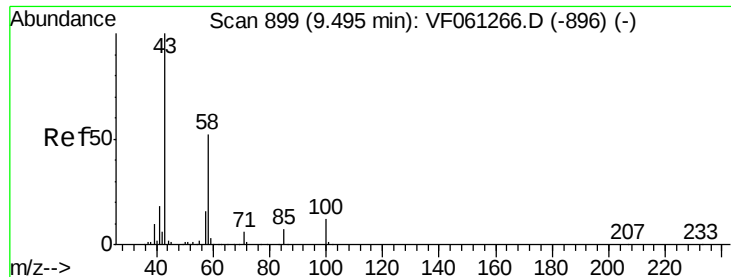
4000

2000

0

Time--> 7.50 7.60 7.70

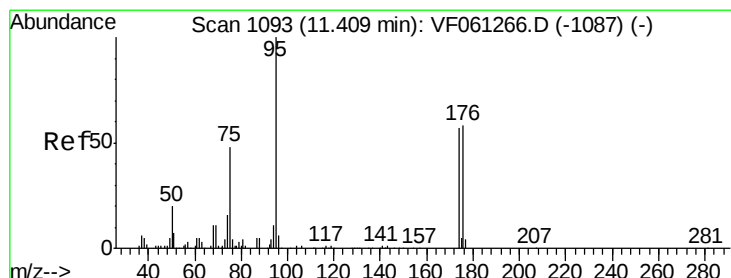
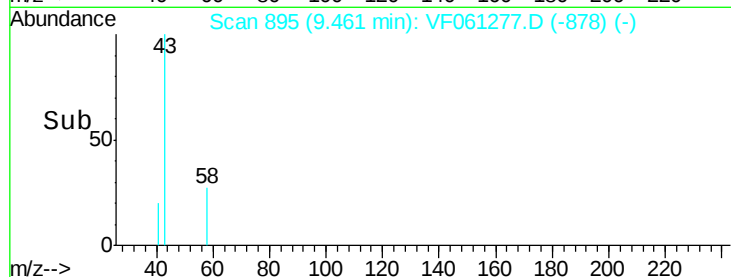
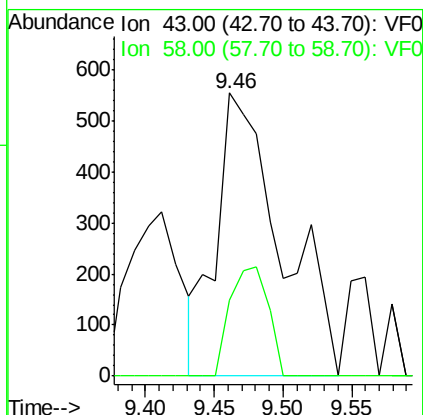
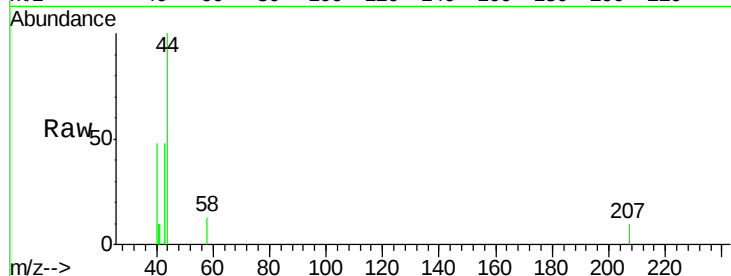




#59
2-Hexanone
Concen: 1.707 ug/l
RT: 9.46 min Scan# 895
Delta R.T. -0.03 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

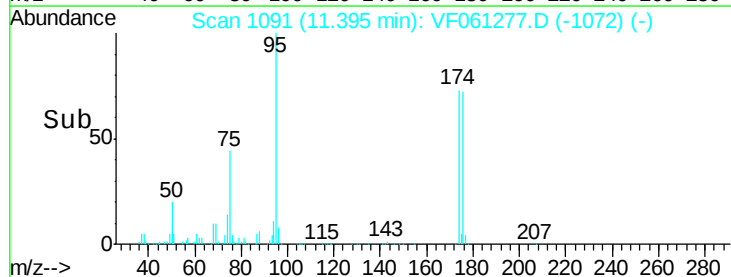
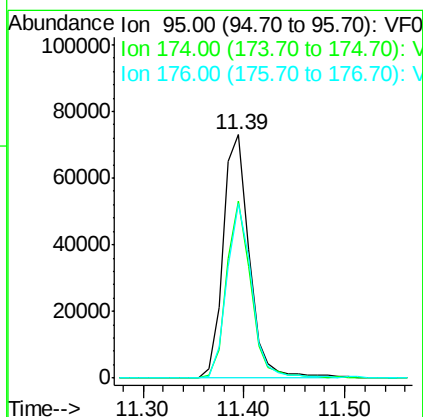
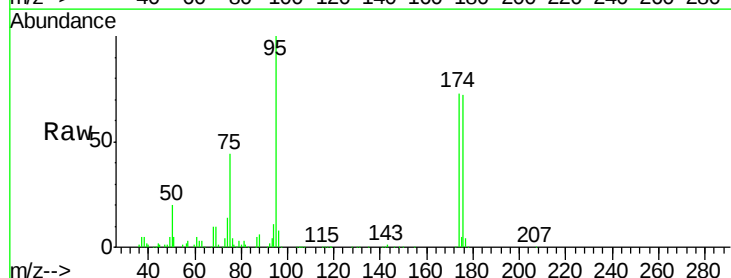
Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-A

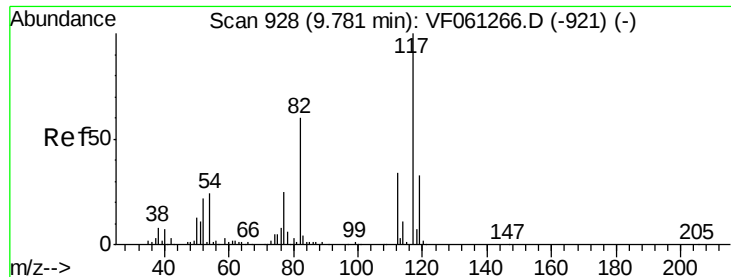
Tot Ion: 43 Resp: 1822
Ion Ratio Lower Upper
43 100
58 26.8 24.4 73.4



#62
4-Bromofluorobenzene
Concen: 38.622 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

Tgt Ion: 95 Resp: 132178
Ion Ratio Lower Upper
95 100
174 72.8 0.0 113.2
176 71.8 0.0 115.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.75 min Scan# 924

Delta R.T. -0.03 min

Lab File: VF061277.D

Acq: 7 Jan 2019 14:13

Instrument :

MSVOA_F

ClientSampleId :

EO-02-010419-A

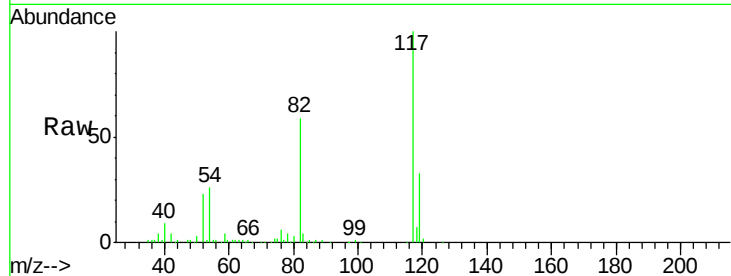
Tot Ion:117 Resp: 270583

Ion Ratio Lower Upper

117 100

82 59.1 47.8 71.6

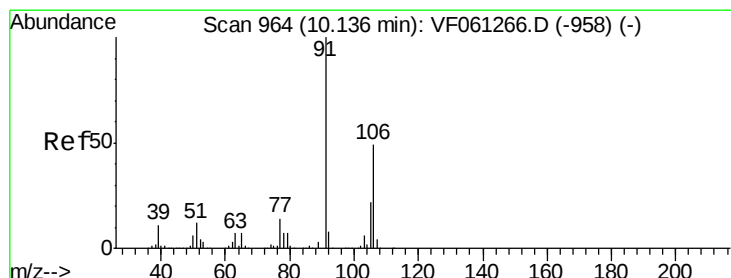
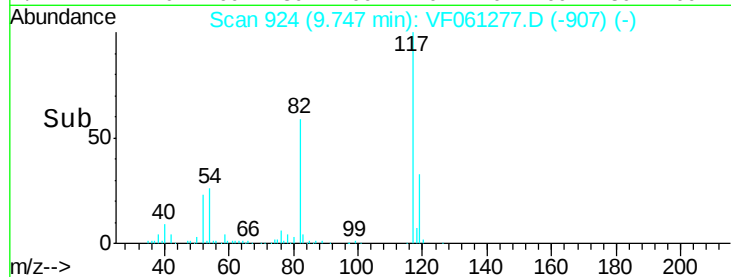
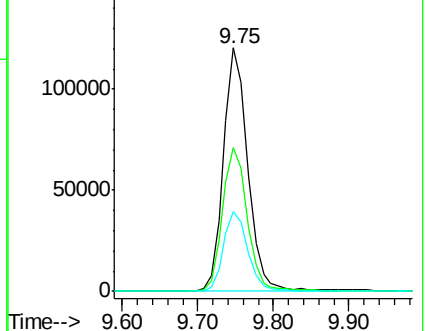
119 33.0 26.1 39.1



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



#68

m/p-Xylenes

Concen: 1.199 ug/l

RT: 10.10 min Scan# 960

Delta R.T. -0.03 min

Lab File: VF061277.D

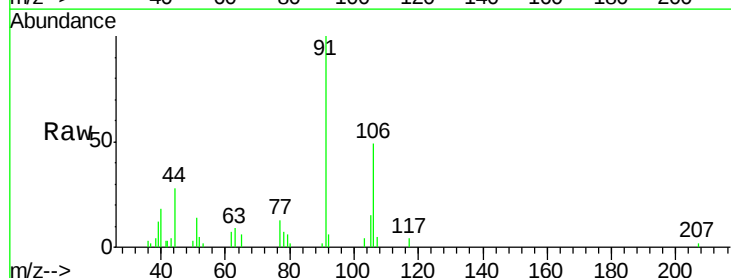
Acq: 7 Jan 2019 14:13

Tgt Ion:106 Resp: 4425

Ion Ratio Lower Upper

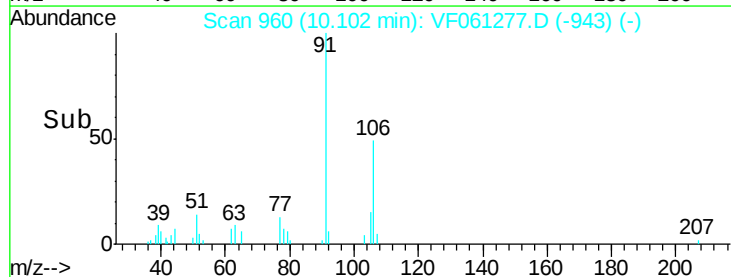
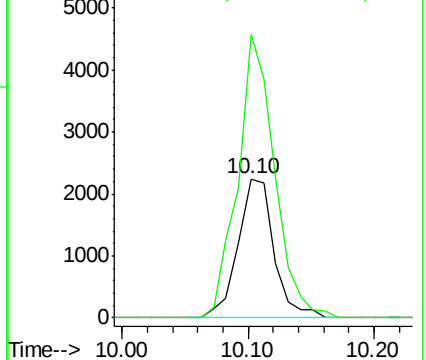
106 100

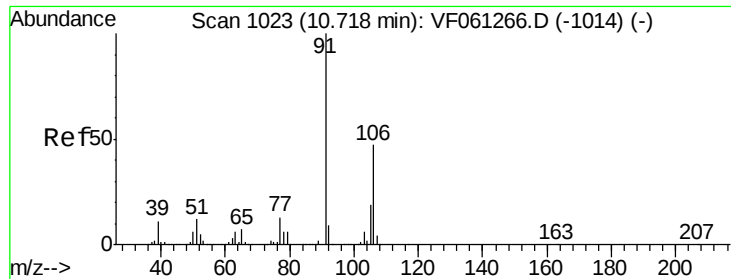
91 204.0 164.8 247.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

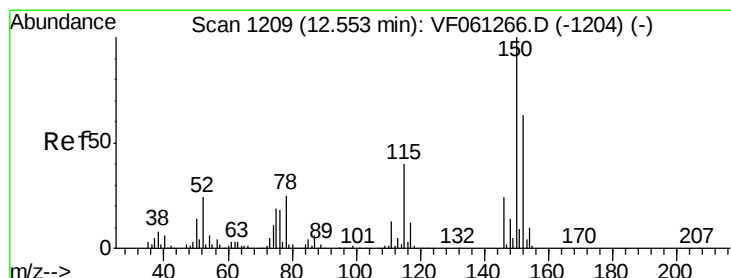
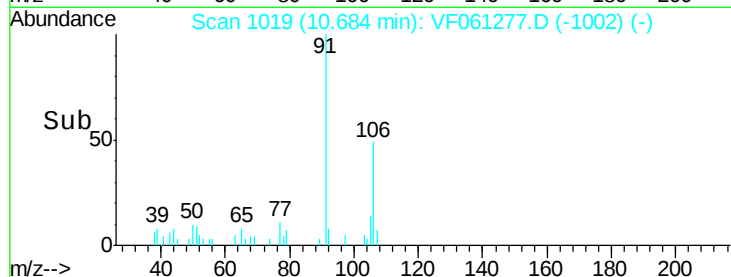
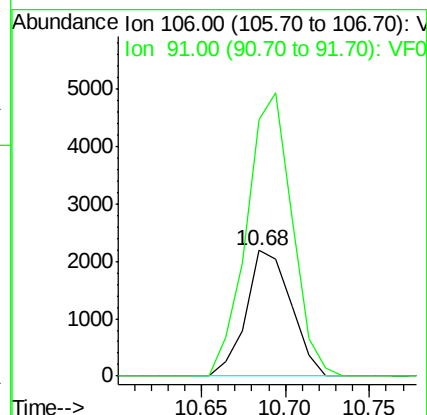
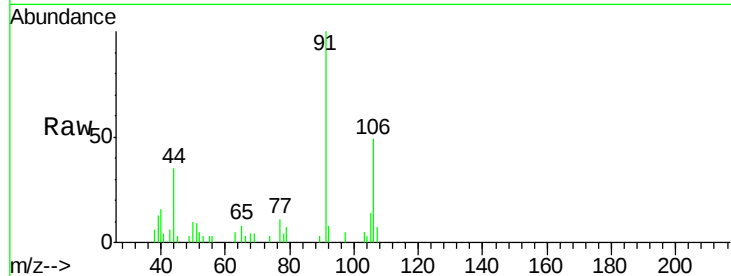




#69
o-Xylene
Concen: 1.014 ug/l
RT: 10.68 min Scan# 1019
Delta R.T. -0.03 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

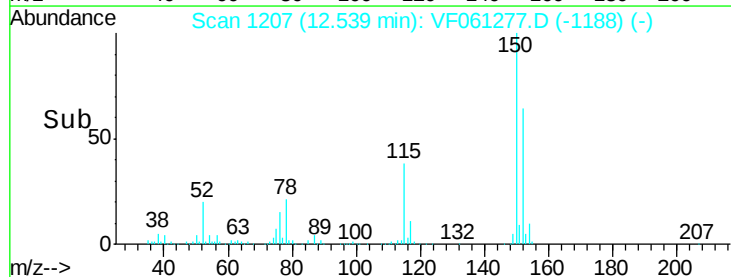
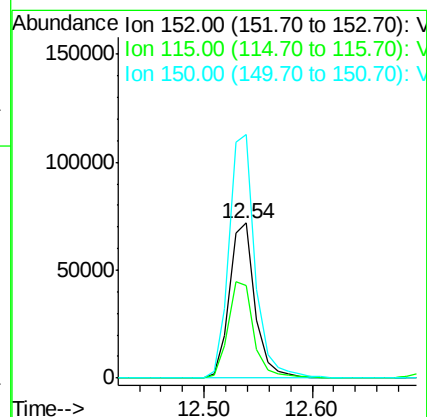
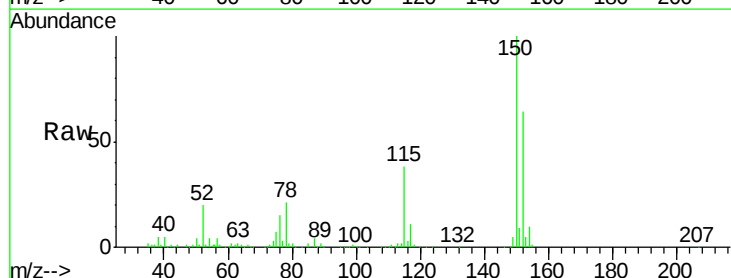
Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-A

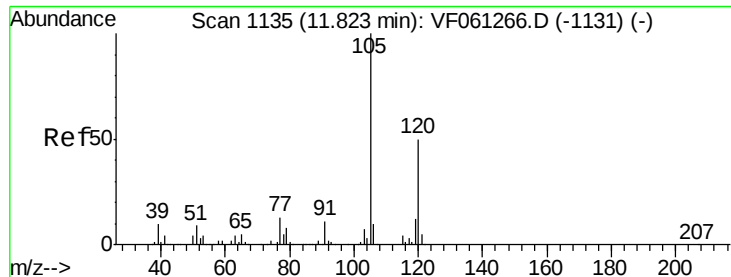
Tot Ion:106 Resp: 4049
Ion Ratio Lower Upper
106 100
91 204.2 106.2 318.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

Tgt Ion:152 Resp: 119815
Ion Ratio Lower Upper
152 100
115 59.7 31.6 94.7
150 157.2 0.0 320.2

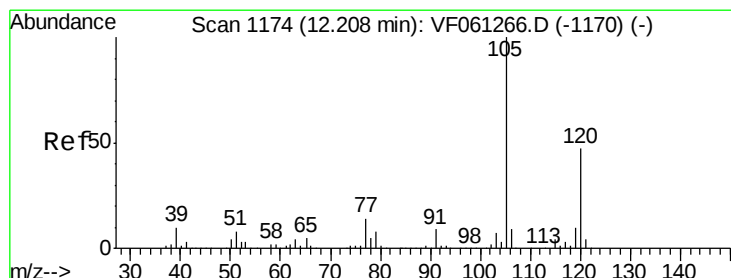
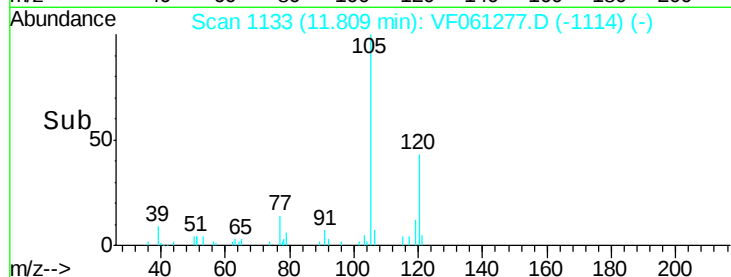
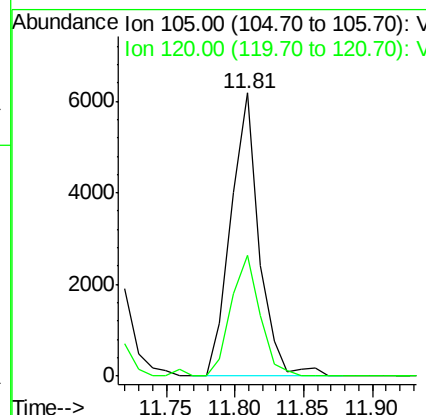
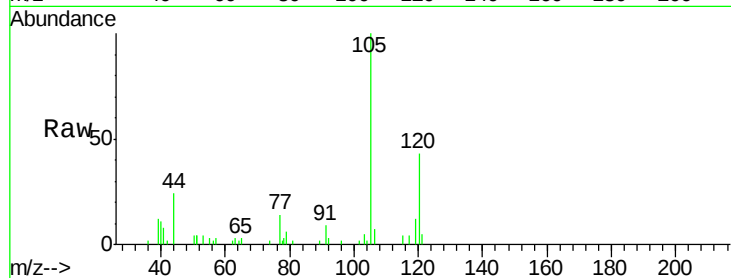




#80
 1,3,5-Trimethylbenzene
 Concen: 1.077 ug/l
 RT: 11.81 min Scan# 1133
 Delta R.T. -0.01 min
 Lab File: VF061277.D
 Acq: 7 Jan 2019 14:13

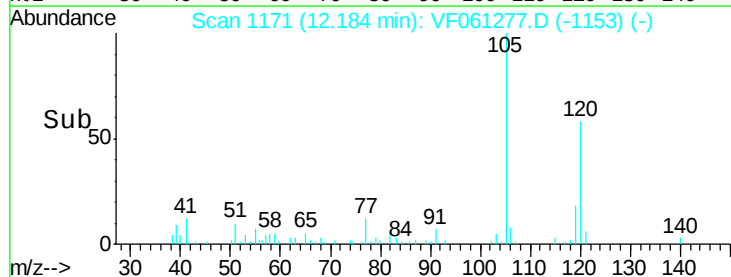
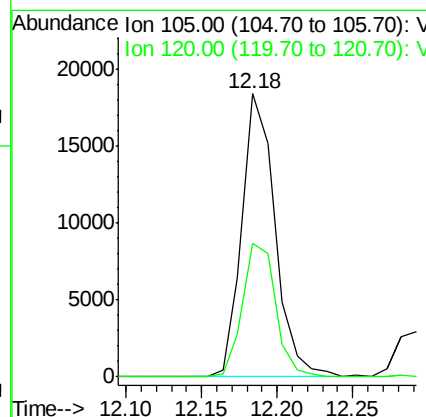
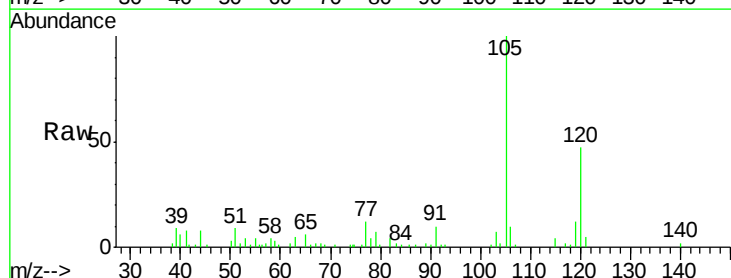
Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-010419-A

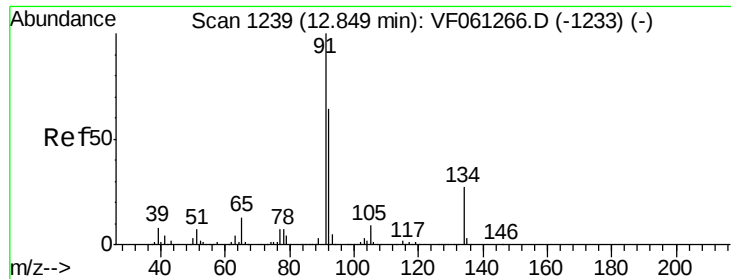
Tot Ion:105 Resp: 8849
 Ion Ratio Lower Upper
 105 100
 120 42.5 24.8 74.4



#84
 1,2,4-Trimethylbenzene
 Concen: 3.436 ug/l
 RT: 12.18 min Scan# 1171
 Delta R.T. -0.02 min
 Lab File: VF061277.D
 Acq: 7 Jan 2019 14:13

Tgt Ion:105 Resp: 28109
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.3 69.9

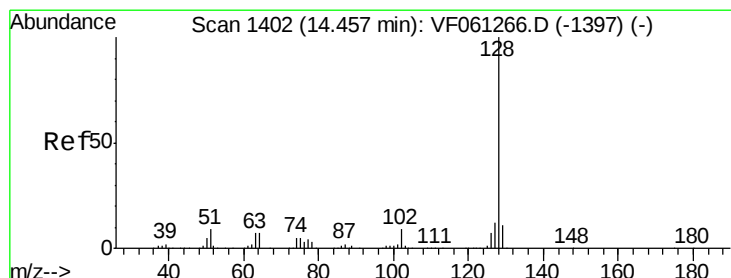
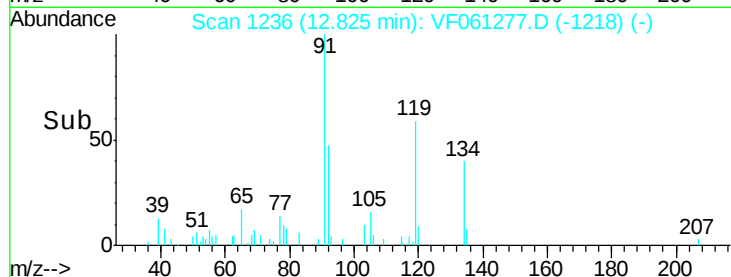
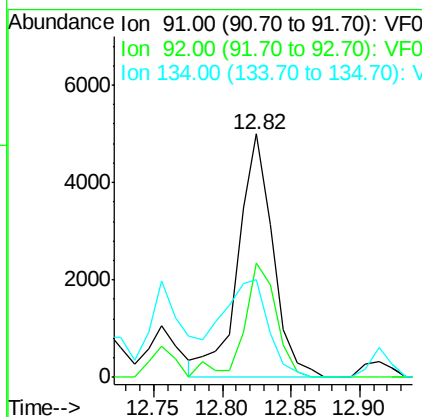
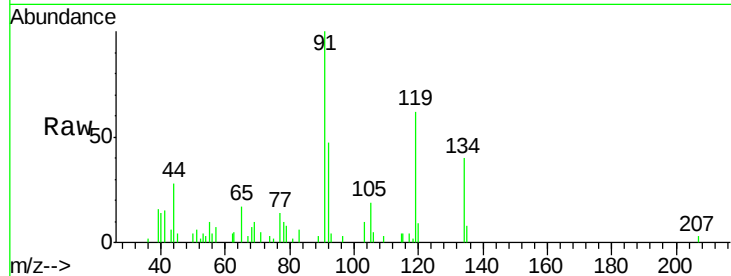




#89
n-Butylbenzene
Concen: Below Cal
RT: 12.82 min Scan# 1236
Delta R.T. -0.02 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

Instrument :
MSVOA_F
ClientSampleId :
EO-02-010419-A

Tot Ion: 91 Resp: 8850
Ion Ratio Lower Upper
91 100
92 47.2 31.9 95.7
134 40.0 13.6 40.7



#95
Naphthalene
Concen: 1.211 ug/l
RT: 14.44 min Scan# 1400
Delta R.T. -0.01 min
Lab File: VF061277.D
Acq: 7 Jan 2019 14:13

Tgt Ion:128 Resp: 6311
Ion Ratio Lower Upper
128 100
127 15.9 9.8 14.6#
129 11.7 9.0 13.4

