

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059651.D
 Acq On : 25 Jul 2018 00:55
 Operator : VA/AP
 Sample : J4106-01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 25 17:15:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	235705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	339648	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	295982	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	164826	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	171578	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
35) Dibromofluoromethane	4.27	113	169165	55.34	ug/l	0.00
Spiked Amount			Recovery	=	110.68%	
50) Toluene-d8	7.70	98	368255	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.50	95	166225	43.42	ug/l	0.00
Spiked Amount			Recovery	=	86.84%	

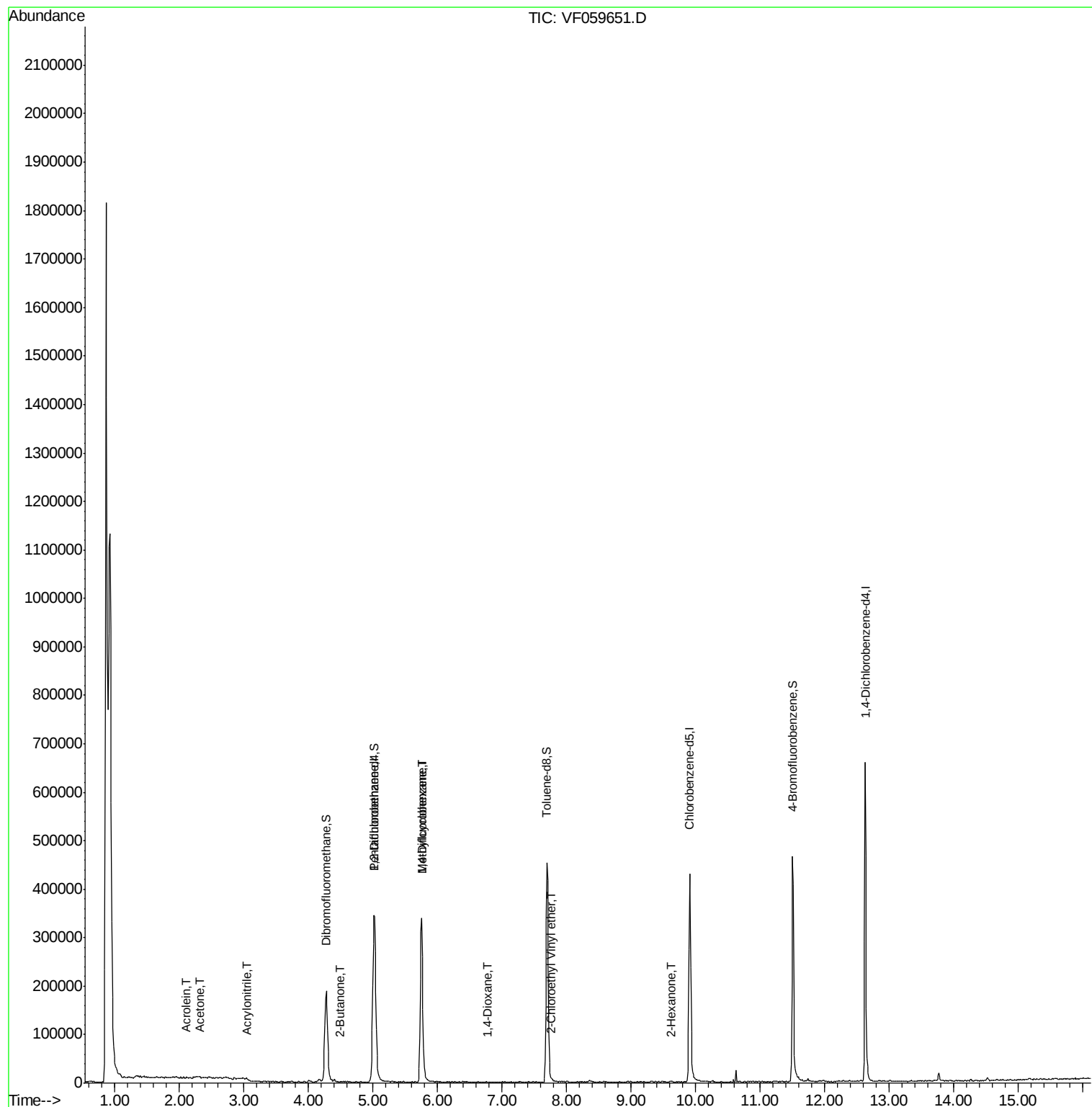
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	952	Below Cal	#	40
5) Bromomethane	1.33	94	277	Below Cal	#	3
9) 1,1,2-Trichlorotrifluoroet	1.85	101	87	Below Cal	#	17
12) 1,1-Dichloroethene	1.84	96	299	Below Cal	#	1
13) Acrolein	2.10	56	294	4.903	ug/l	90
15) Acrylonitrile	3.06	53	241	1.145	ug/l #	7
16) Acetone	2.33	43	3707	7.257	ug/l	94
17) Carbon Disulfide	1.80	76	140	Below Cal	#	1
18) Methyl Acetate	2.45	43	437	Below Cal	#	62
20) Methylene Chloride	2.25	84	1355	Below Cal	#	63
25) 2-Butanone	4.49	43	284	2.555	ug/l #	61
26) 2,2-Dichloropropane	3.72	77	188	Below Cal	#	63
28) Bromochloromethane	3.74	49	70	Below Cal		90
29) Tetrahydrofuran	4.24	42	232	Below Cal	#	38
37) Ethyl Acetate	4.24	43	175	Below Cal	#	17
39) Methylcyclohexane	5.75	83	5810	2.059	ug/l #	33
49) 1,4-Dioxane	6.79	88	63	7.267	ug/l #	22
52) Toluene	7.77	92	493	Below Cal	#	61
58) 2-Chloroethyl Vinyl ether	7.77	63	292	1.483	ug/l	100
59) 2-Hexanone	9.62	43	1208	1.406	ug/l	87
87) 1,3-Dichlorobenzene	12.64	146	737	Below Cal		80
89) n-Butylbenzene	12.91	91	624	Below Cal	#	85
93) 1,2,4-Trichlorobenzene	14.26	180	691	Below Cal	#	65

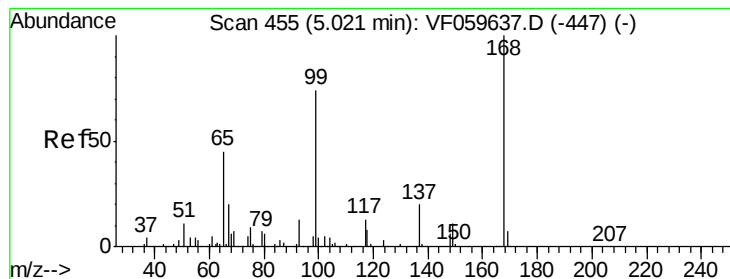
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF072418\
Data File : VF059651.D
Acq On : 25 Jul 2018 00:55
Operator : VA/AP
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Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 100 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Jul 25 17:15:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 25 02:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

Instrument :

MSVOA_F

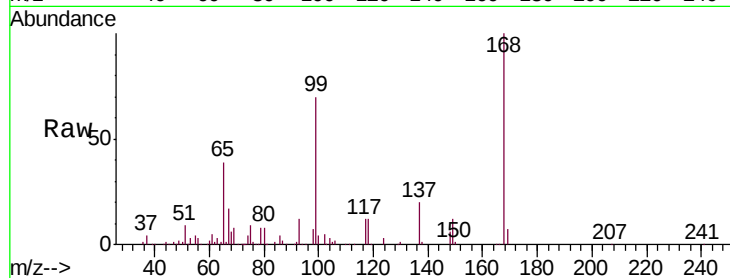
ClientSampleId :

Tot Ion:168 Resp: 235705

Ion Ratio Lower Upper

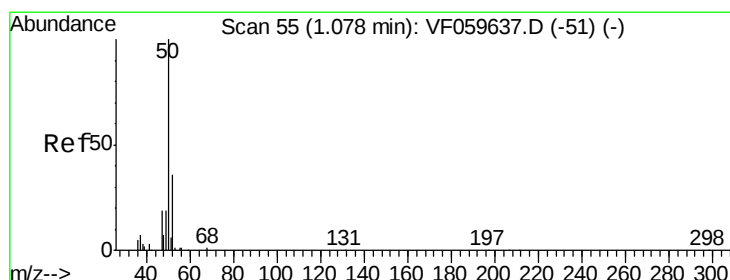
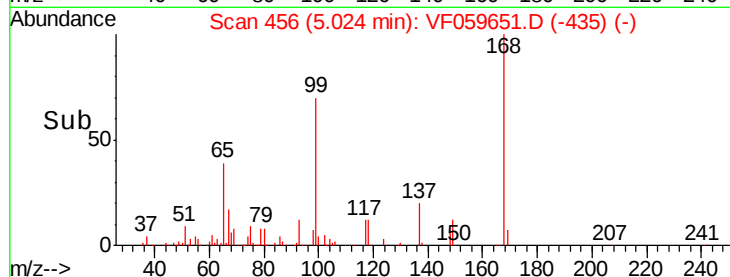
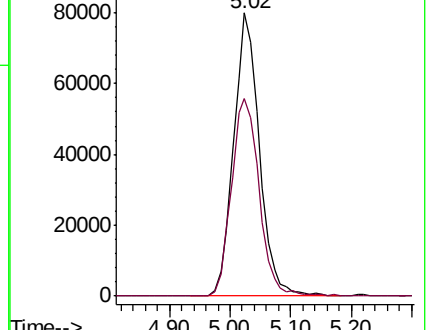
168 100

99 69.9 59.5 89.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059651.D

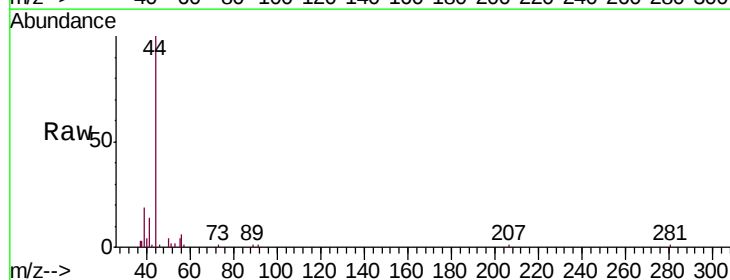
Acq: 25 Jul 2018 00:55

Tgt Ion: 50 Resp: 952

Ion Ratio Lower Upper

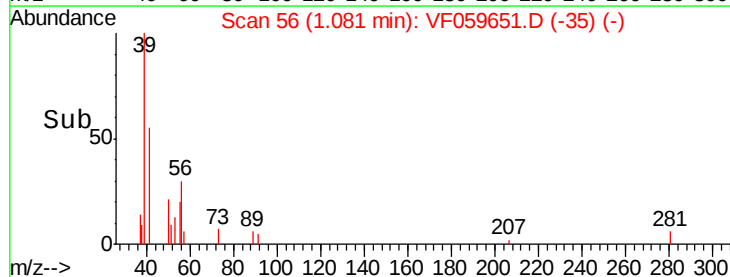
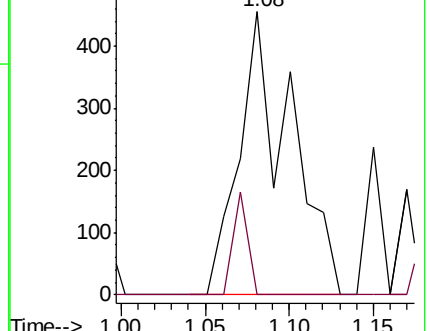
50 100

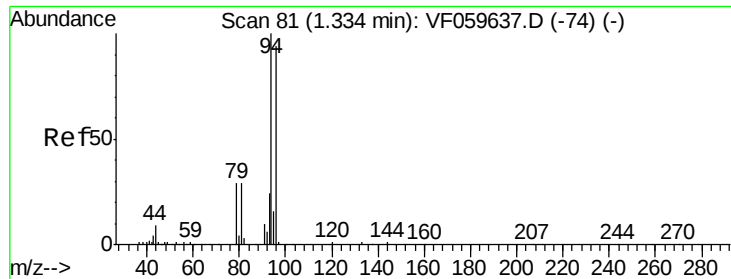
52 0.0 28.0 42.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

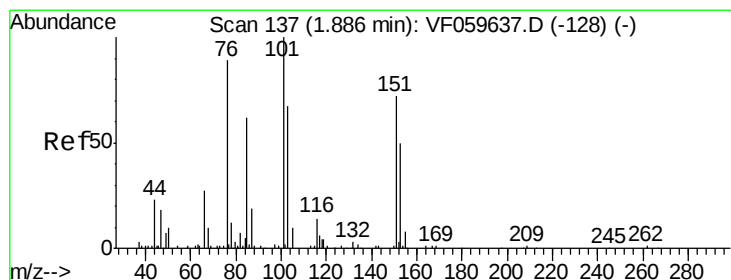
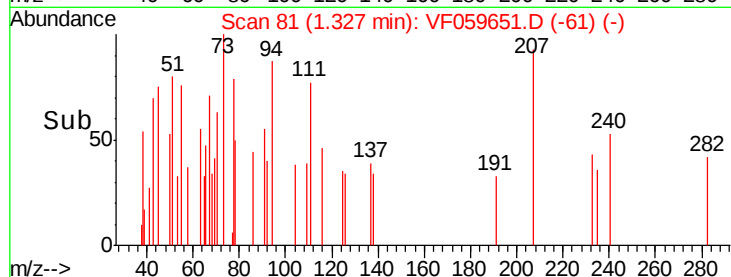
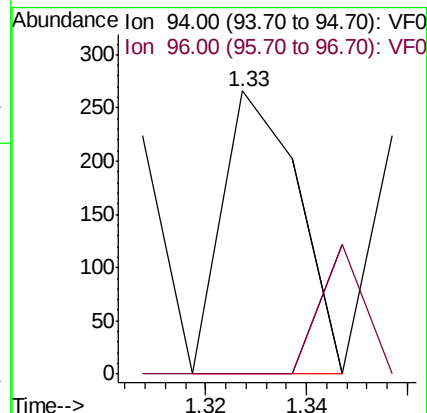
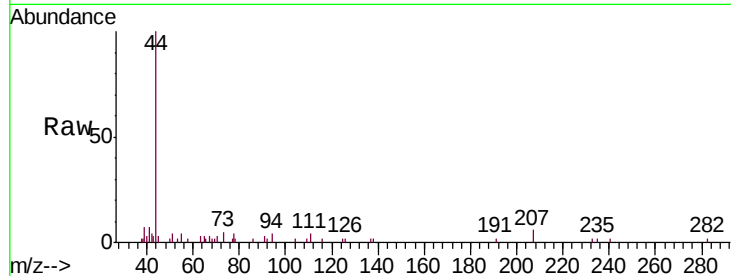
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 277

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



#9

1,1,2-Trichlorotrifluoroethane

Concen: Below Cal

RT: 1.85 min Scan# 134

Delta R.T. -0.04 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

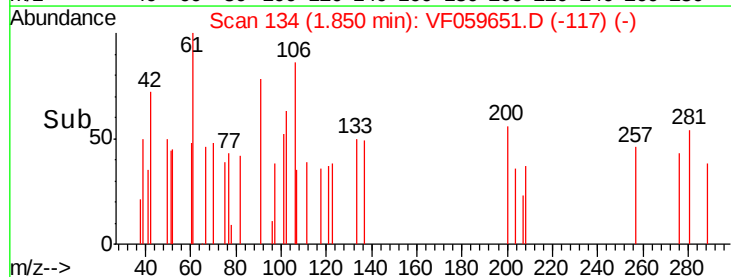
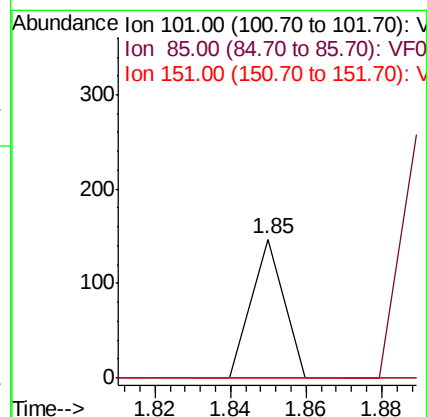
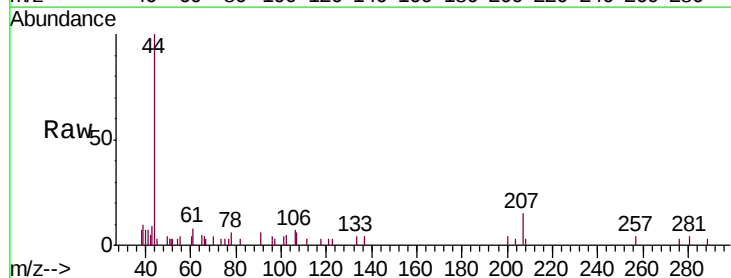
Tgt Ion: 101 Resp: 87

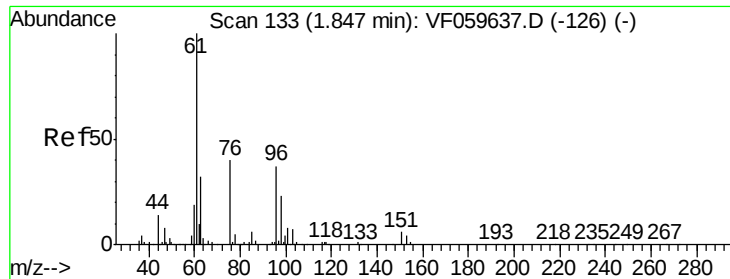
Ion Ratio Lower Upper

101 100

85 0.0 49.0 73.4#

151 0.0 56.8 85.2#

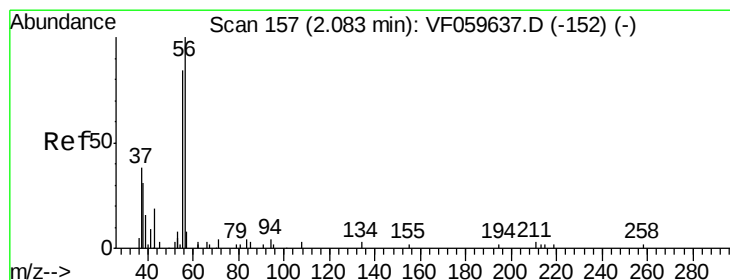
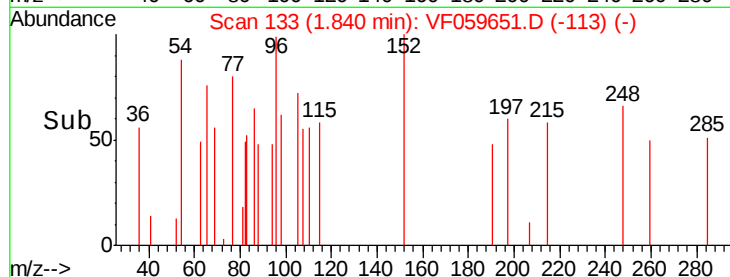
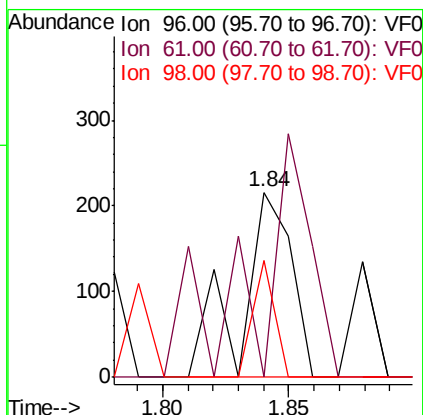
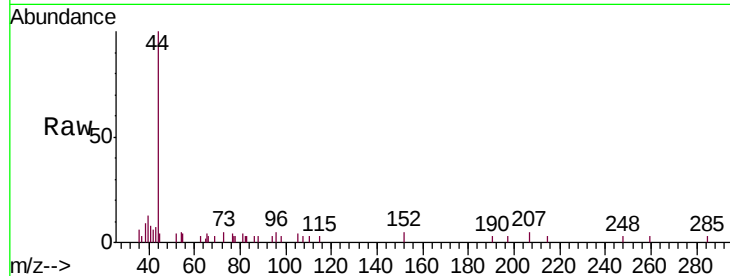




#12
 1,1-Dichloroethene
 Concen: Below Cal
 RT: 1.84 min Scan# 133
 Delta R.T. -0.01 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

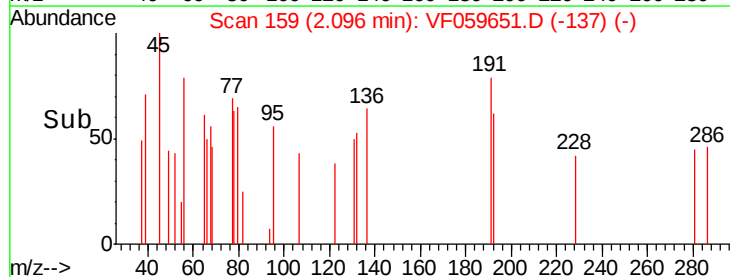
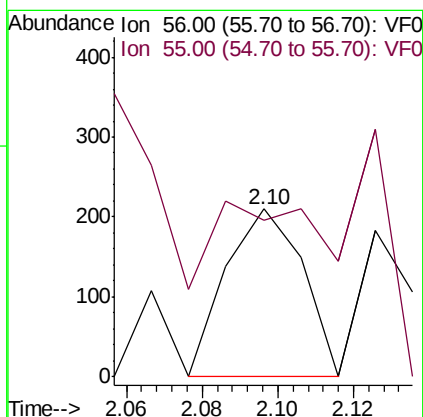
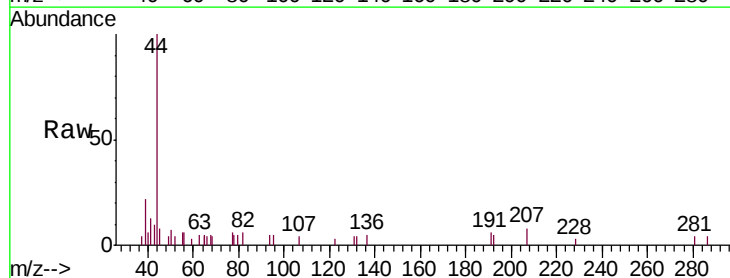
Instrument :
 MSVOA_F
 ClientSampled :

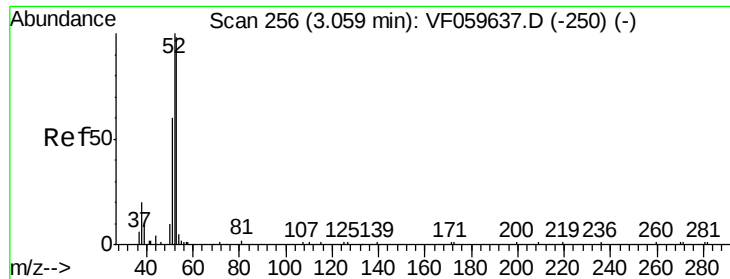
Tot Ion: 96 Resp: 299
 Ion Ratio Lower Upper
 96 100
 61 0.0 218.2 327.4#
 98 63.0 50.6 76.0



#13
 Acrolein
 Concen: 4.903 ug/l
 RT: 2.10 min Scan# 159
 Delta R.T. 0.01 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

Tgt Ion: 56 Resp: 294
 Ion Ratio Lower Upper
 56 100
 55 93.3 67.2 100.8





#15

Acrylonitrile

Concen: 1.145 ug/l

RT: 3.06 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

Instrument :
MSVOA_F
ClientSampled :

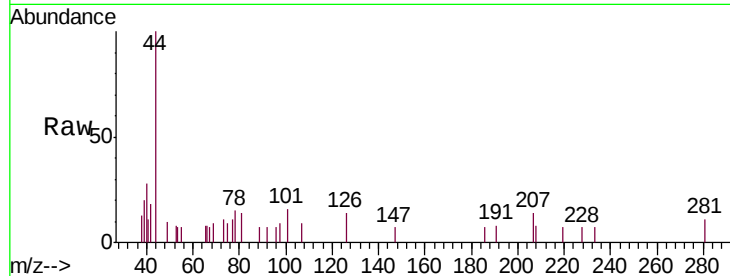
Tot Ion: 53 Resp: 241

Ion Ratio Lower Upper

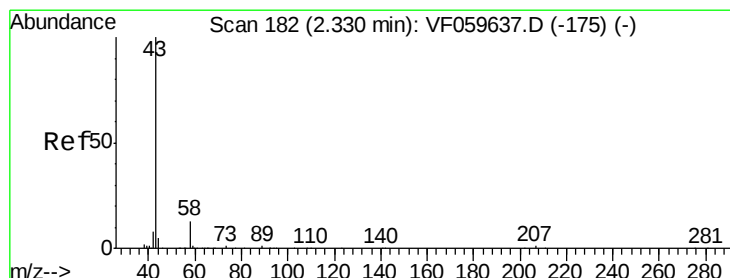
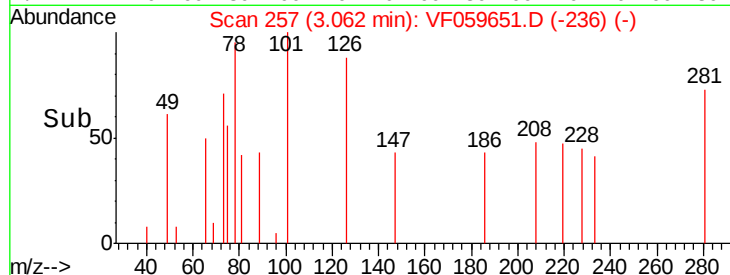
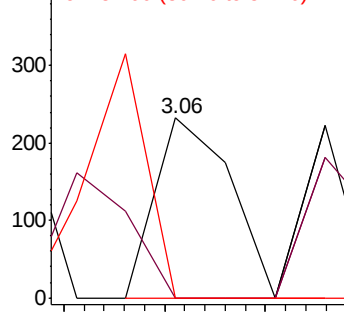
53 100

52 0.0 80.9 121.3#

51 0.0 49.4 74.2#



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: 7.257 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF059651.D

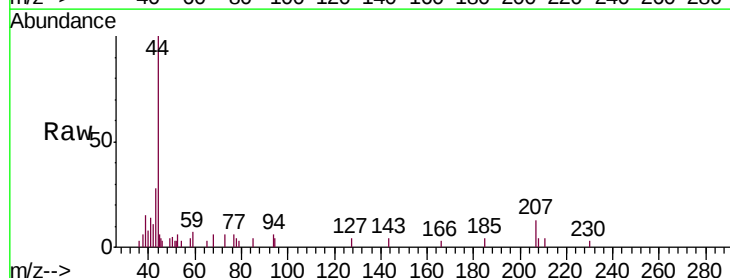
Acq: 25 Jul 2018 00:55

Tgt Ion: 43 Resp: 3707

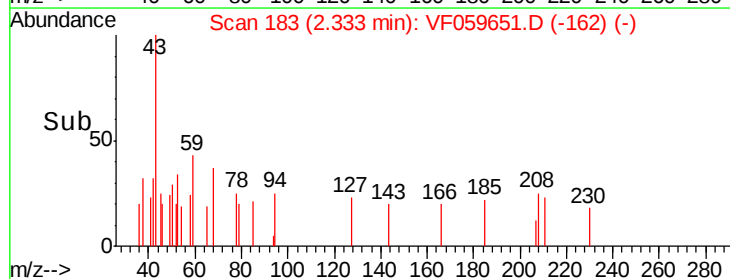
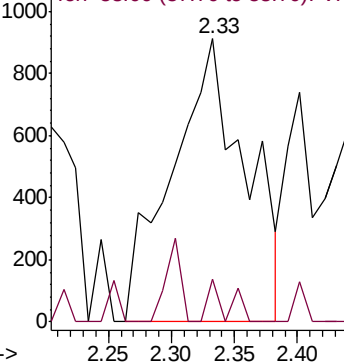
Ion Ratio Lower Upper

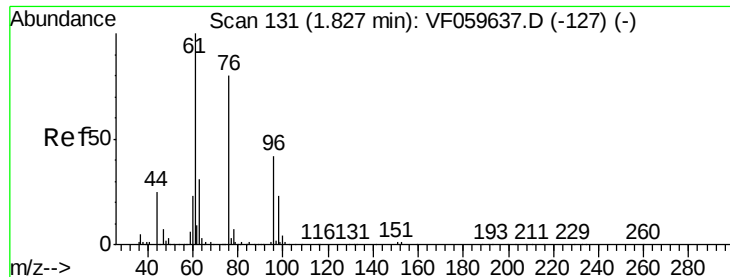
43 100

58 15.1 10.2 15.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.80 min Scan# 129

Delta R.T. -0.03 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

Instrument :

MSVOA_F

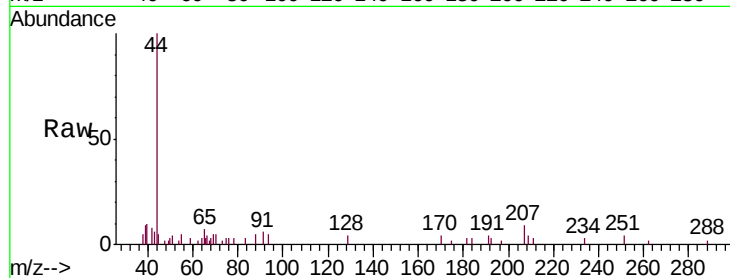
ClientSampled :

Tot Ion: 76 Resp: 140

Ion Ratio Lower Upper

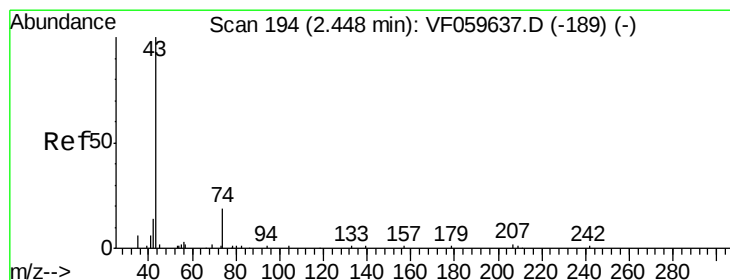
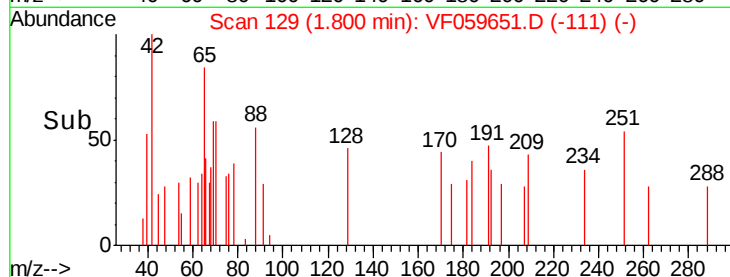
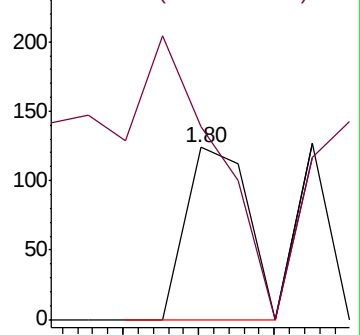
76 100

78 112.1 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.45 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF059651.D

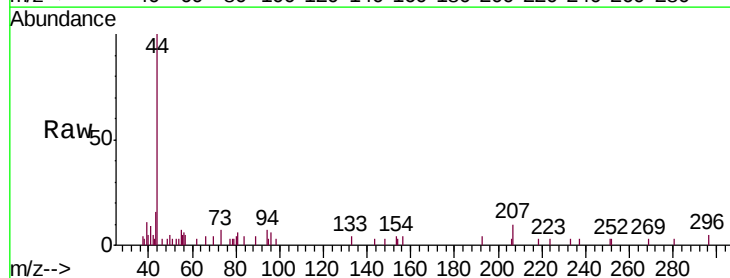
Acq: 25 Jul 2018 00:55

Tgt Ion: 43 Resp: 437

Ion Ratio Lower Upper

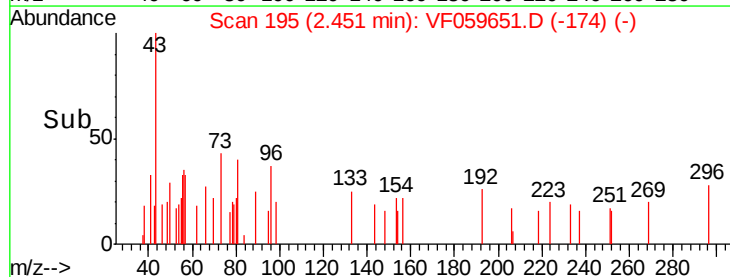
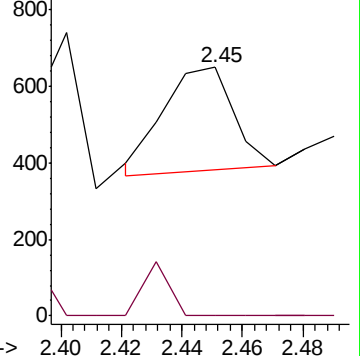
43 100

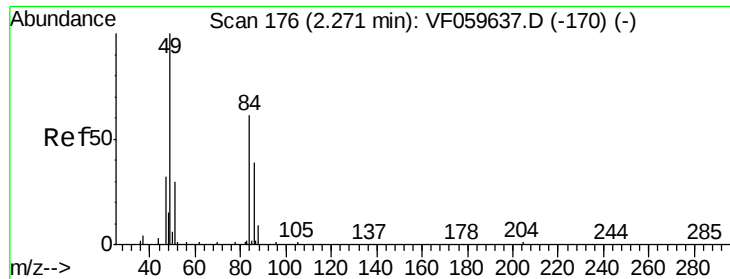
74 0.0 13.0 19.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

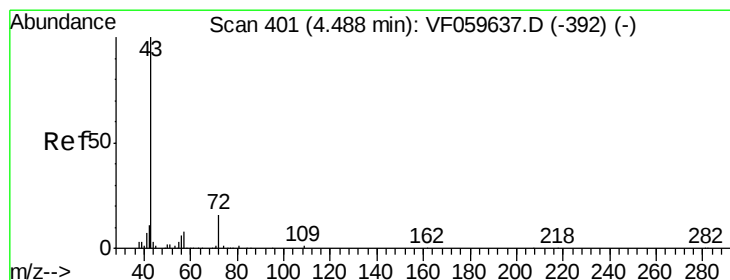
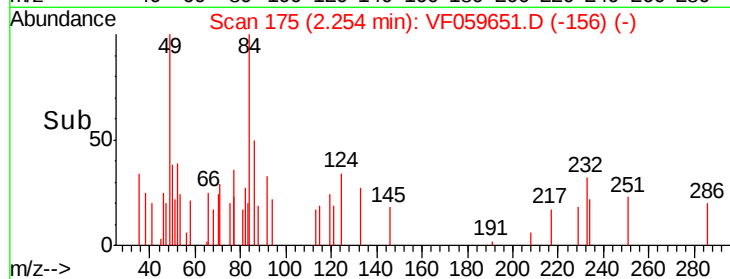
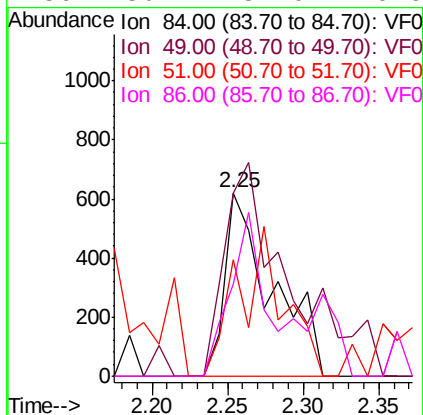
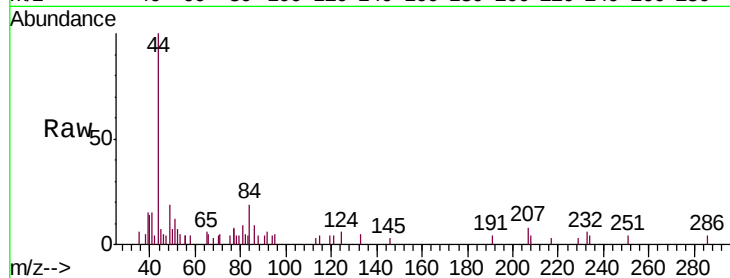




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 175
Delta R.T. -0.02 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

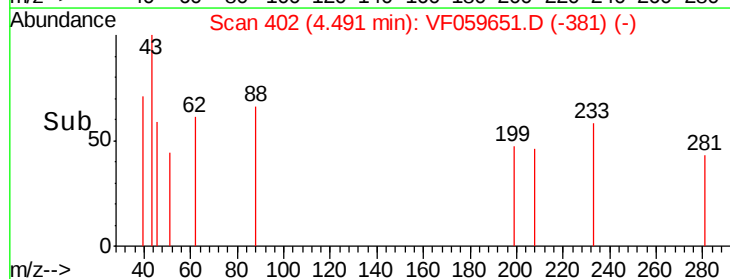
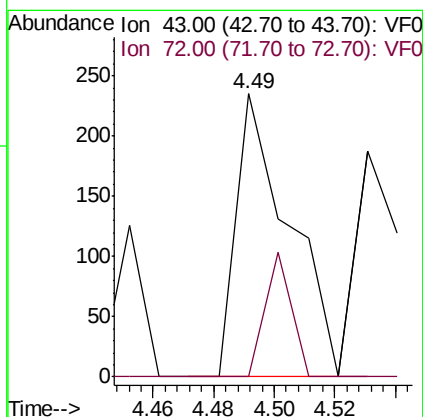
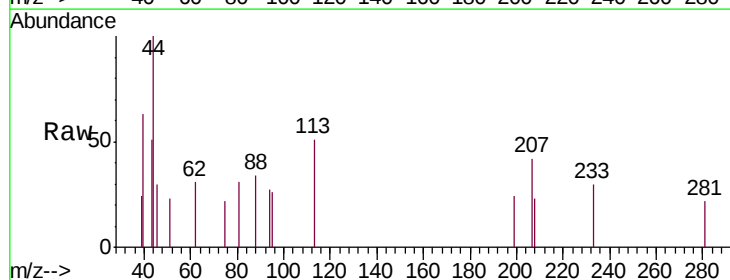
Instrument :
MSVOA_F
ClientSampleId :

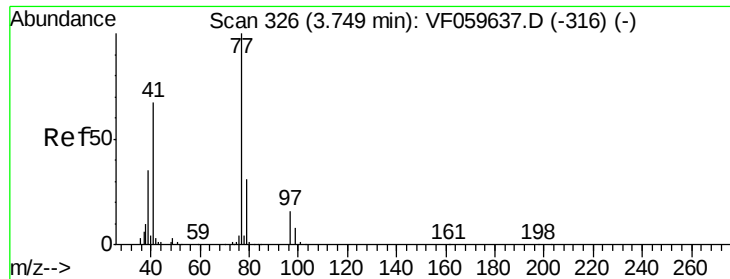
Tot Ion: 84 Resp: 1355
Ion Ratio Lower Upper
84 100
49 100.0 133.8 200.8#
51 63.9 41.1 61.7#
86 50.2 51.0 76.6#



#25
2-Butanone
Concen: 2.555 ug/l
RT: 4.49 min Scan# 402
Delta R.T. 0.00 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

Tgt Ion: 43 Resp: 284
Ion Ratio Lower Upper
43 100
72 0.0 13.5 20.3#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 3.72 min Scan# 324

Delta R.T. -0.03 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

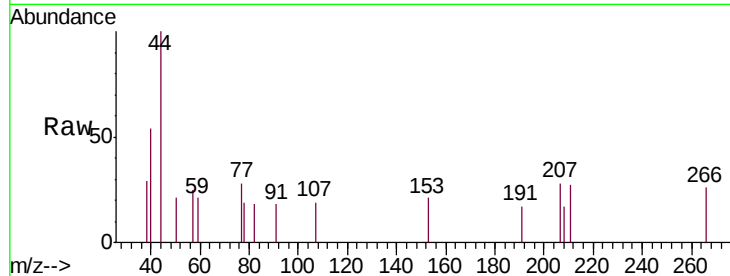
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 77 Resp: 188

Ion Ratio Lower Upper

77 100

97 0.0 7.8 23.3#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.72

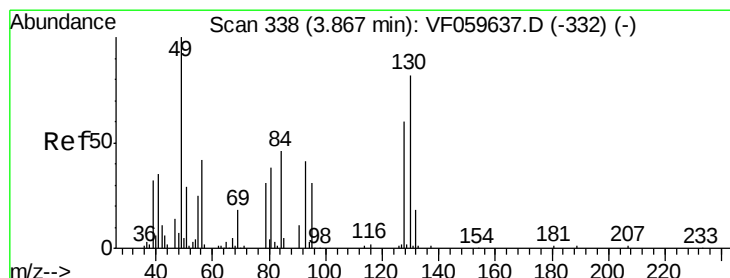
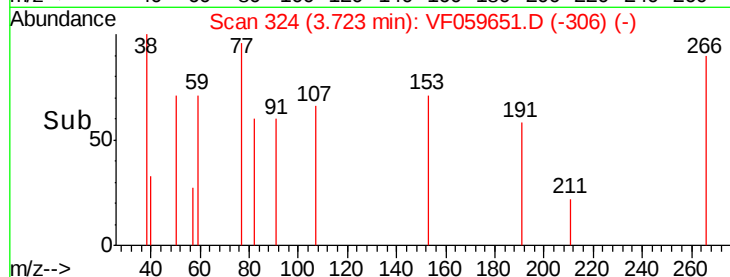
150

100

50

0

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 3.74 min Scan# 326

Delta R.T. -0.12 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

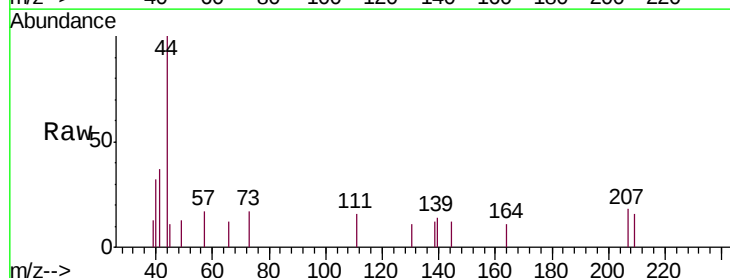
Tgt Ion: 49 Resp: 70

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

130 89.8 65.0 97.4



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

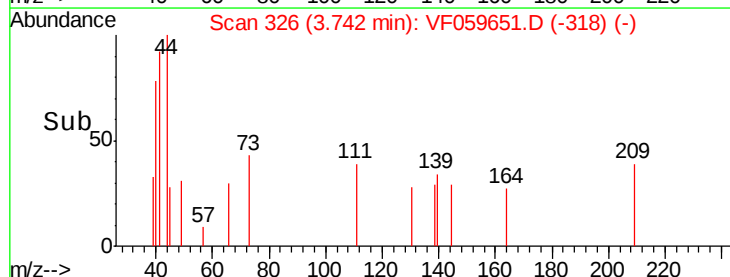
150

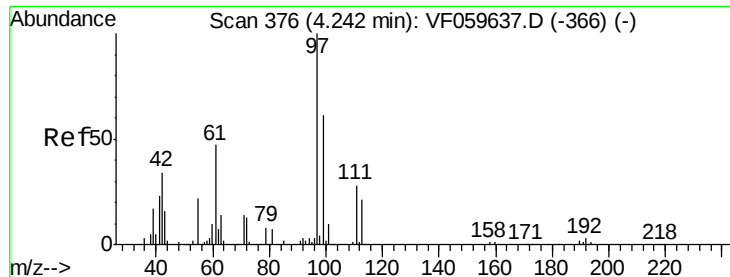
100

50

0

Time-->

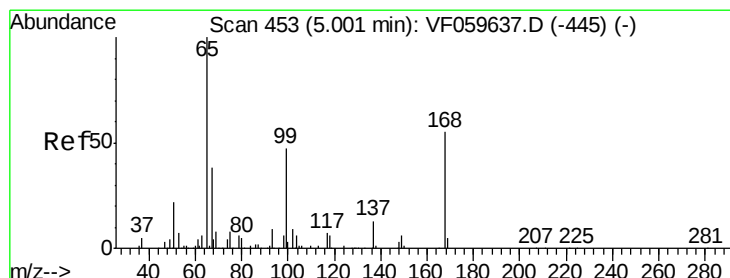
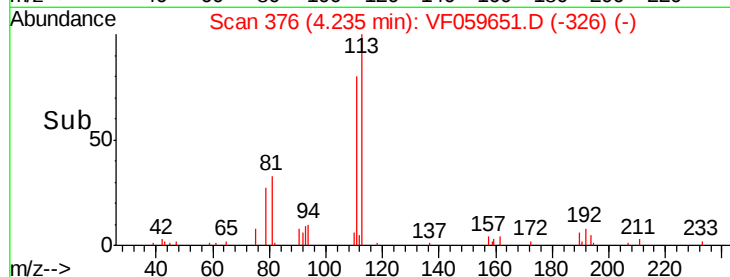
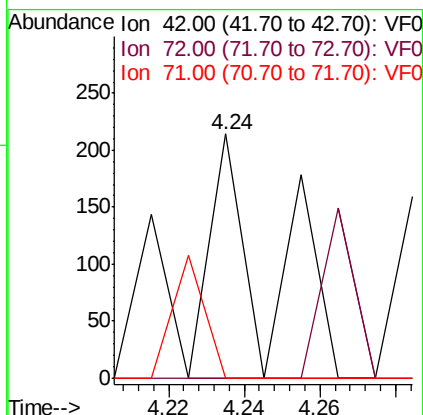
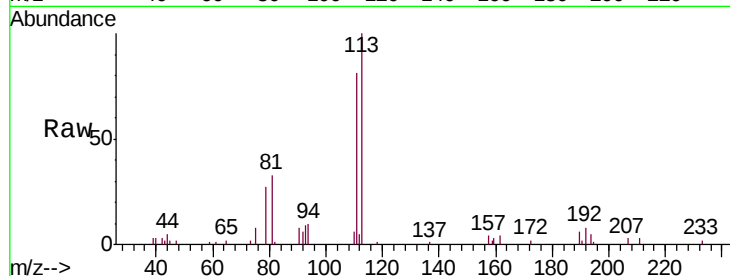




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.24 min Scan# 376
Delta R.T. -0.01 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

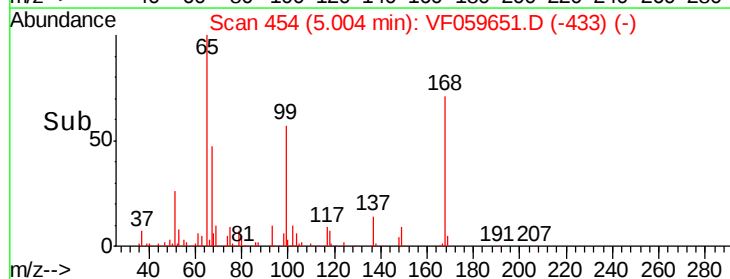
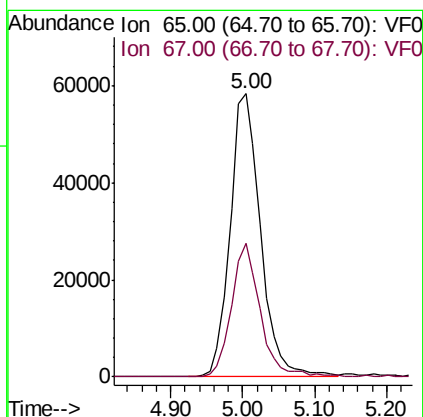
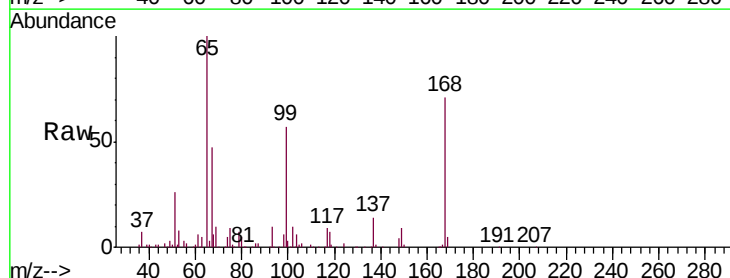
Instrument :
MSVOA_F
ClientSampleId :

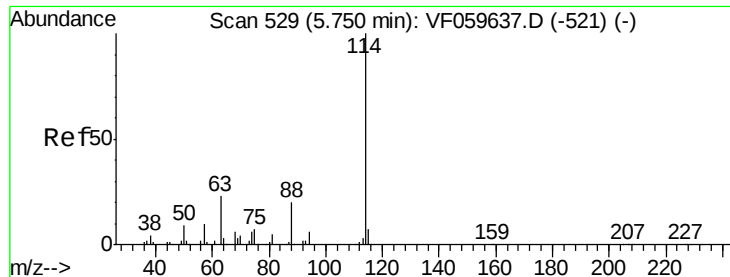
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.0	45.0#
71	0.0	28.6	42.8#



#33
1,2-Dichloroethane-d4
Concen: 52.243 ug/l
RT: 5.00 min Scan# 454
Delta R.T. 0.00 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

Tgt Ion	Ratio	Lower	Upper
65	100		
67	47.1	0.0	86.6

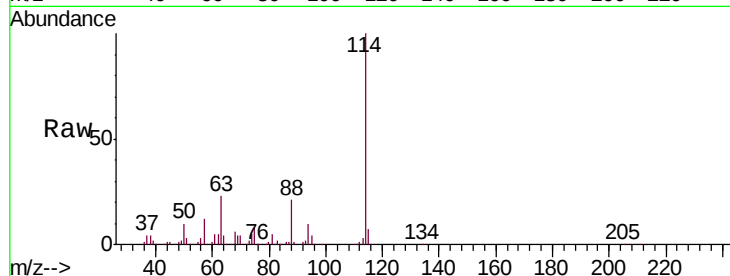




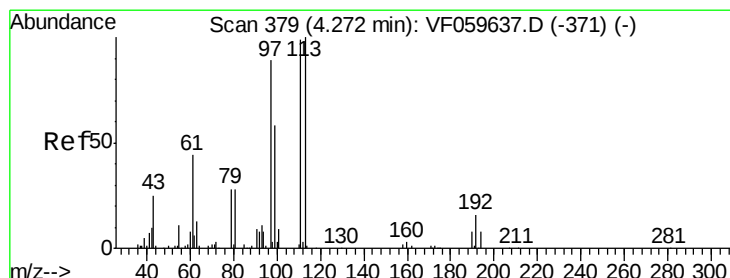
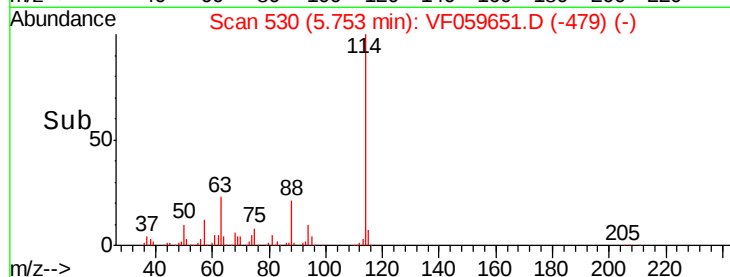
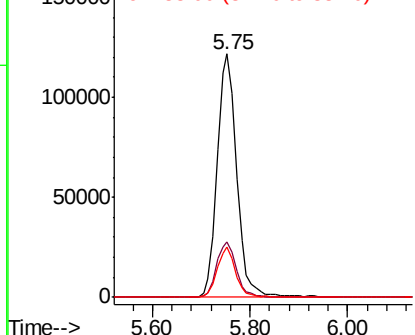
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	45.6
88	20.8	0.0	40.8

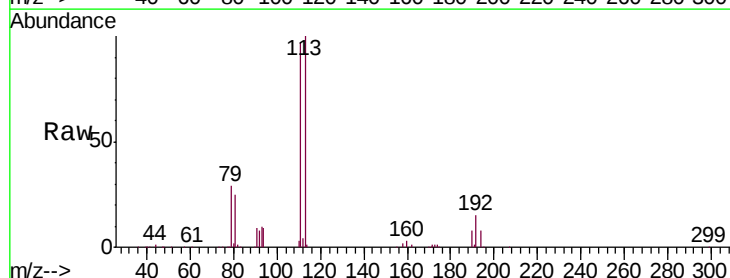


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

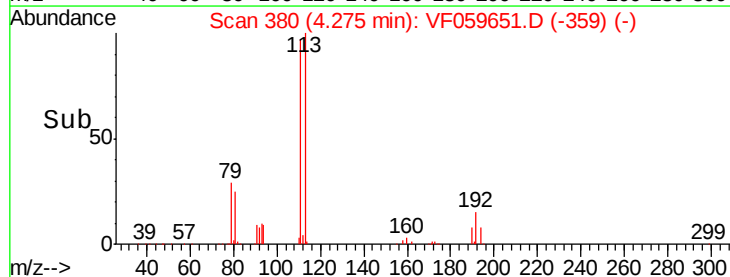
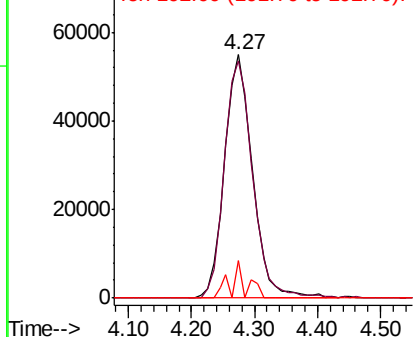


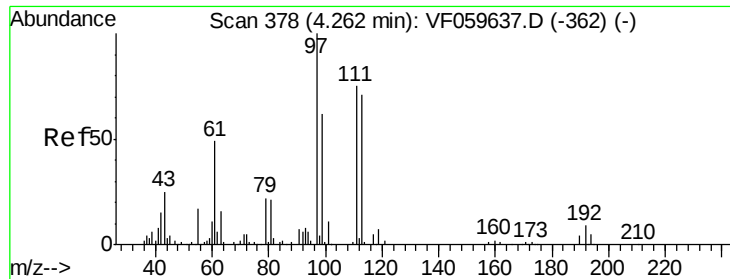
#35
 Dibromofluoromethane
 Concen: 55.342 ug/l
 RT: 4.27 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

Tgt Ion	Ratio	Lower	Upper
113	100		
111	97.4	79.3	118.9
192	15.2	13.4	20.2



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: 4.24 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

Instrument :

MSVOA_F

ClientSampleId :

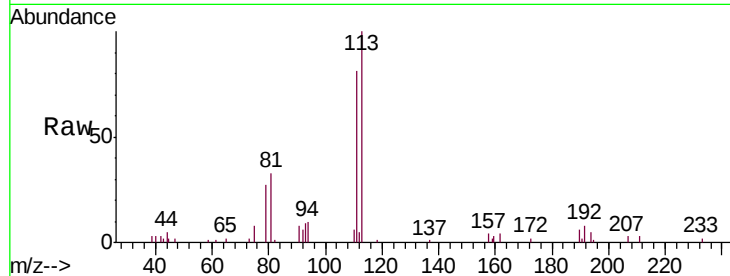
Tot Ion: 43 Resp: 175

Ion Ratio Lower Upper

43 100

61 67.7 156.6 234.8#

70 0.0 7.3 10.9#



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

300

250

200

150

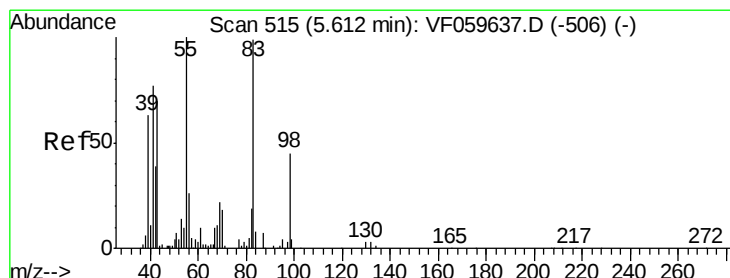
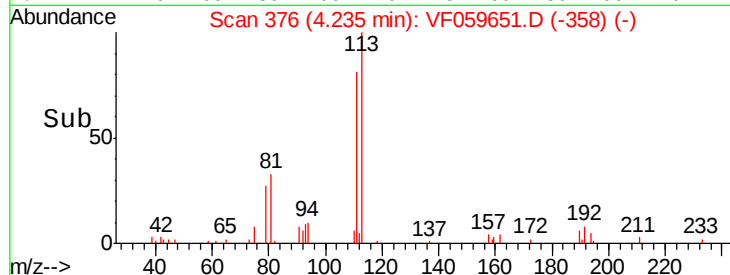
100

50

0

4.22 4.24 4.26 4.28

Time-->



#39

Methylcyclohexane

Concen: 2.059 ug/l

RT: 5.75 min Scan# 530

Delta R.T. 0.14 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

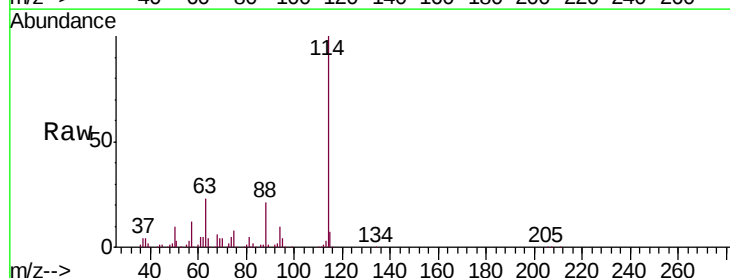
Tgt Ion: 83 Resp: 5810

Ion Ratio Lower Upper

83 100

55 35.2 81.5 122.3#

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

3000

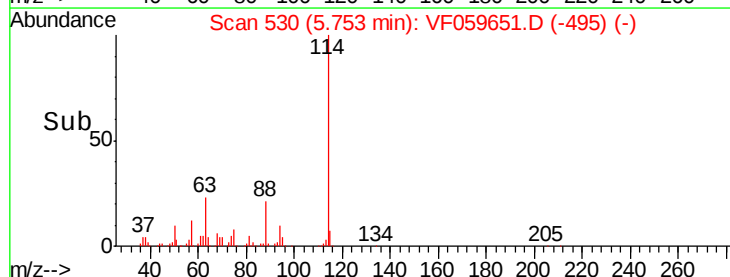
2000

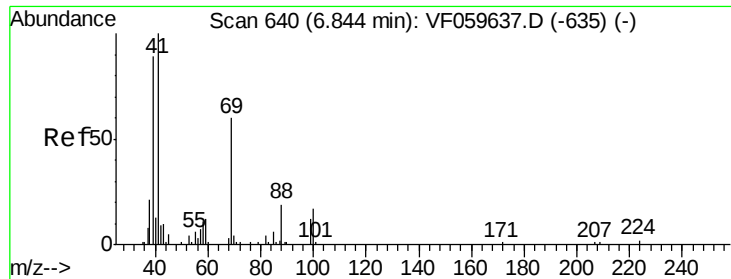
1000

0

5.70 5.75 5.80

Time-->





#49

1,4-Dioxane

Concen: 7.267 ug/l

RT: 6.79 min Scan# 635

Delta R.T. -0.06 min

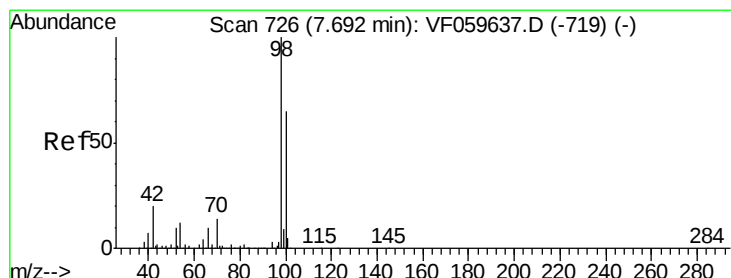
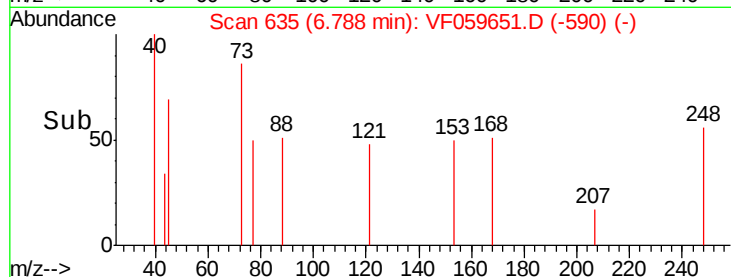
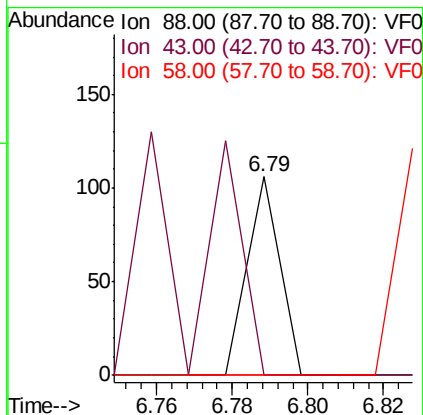
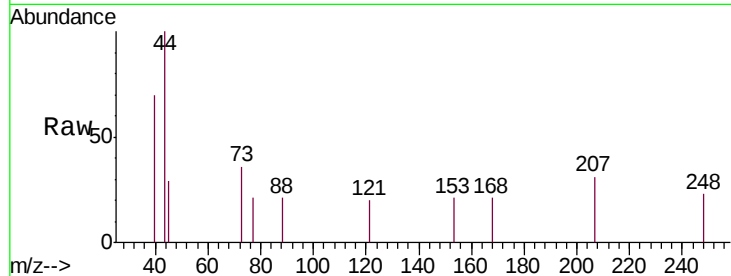
Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 63

Ion	Ratio	Lower	Upper
88	100		
43	0.0	45.3	67.9#
58	0.0	47.7	71.5#



#50

Toluene-d8

Concen: 49.429 ug/l

RT: 7.70 min Scan# 727

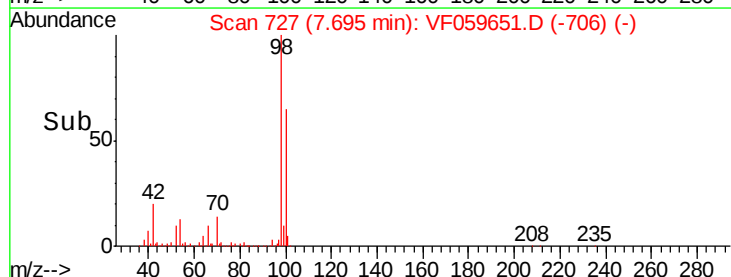
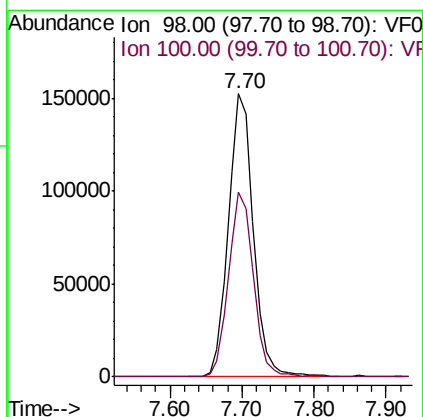
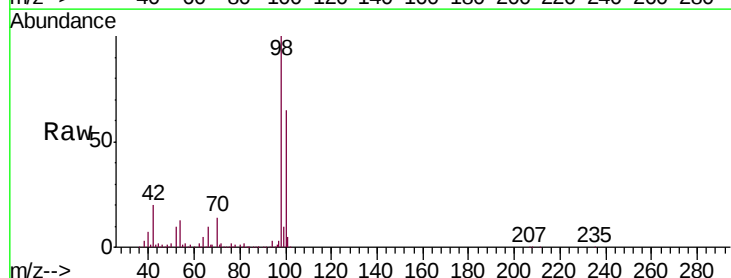
Delta R.T. 0.00 min

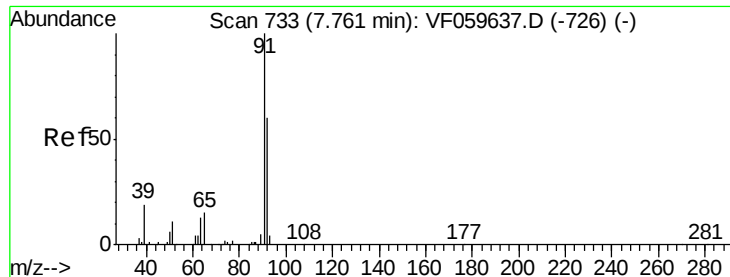
Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

Tgt Ion: 98 Resp: 368255

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.4





#52

Toluene

Concen: Below Cal

RT: 7.77 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF059651.D

Acq: 25 Jul 2018 00:55

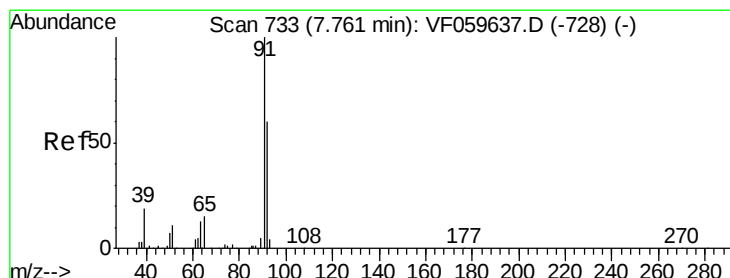
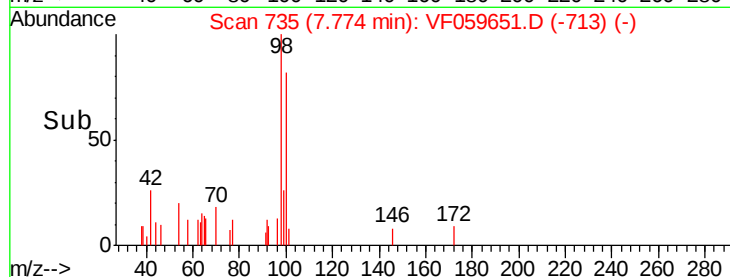
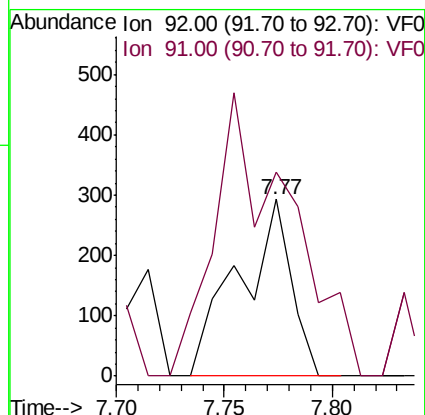
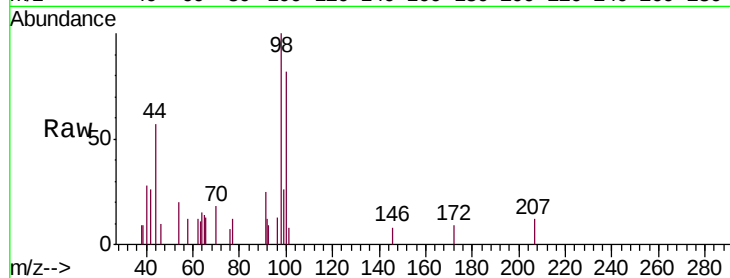
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 92 Resp: 493

Ion Ratio Lower Upper

92 100

91 115.4 134.2 201.4#



#58

2-Chloroethyl Vinyl ether

Concen: 1.483 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF059651.D

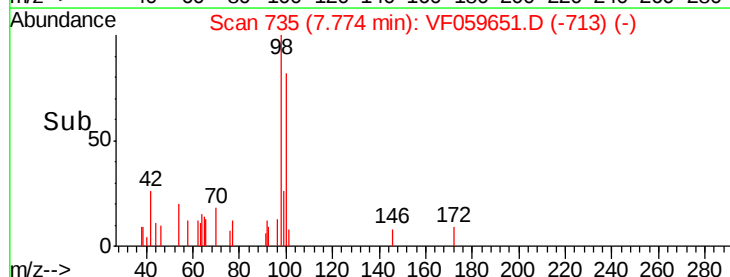
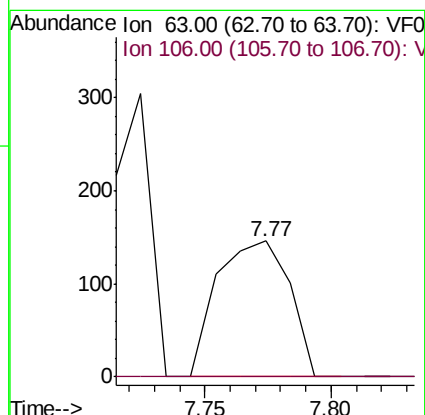
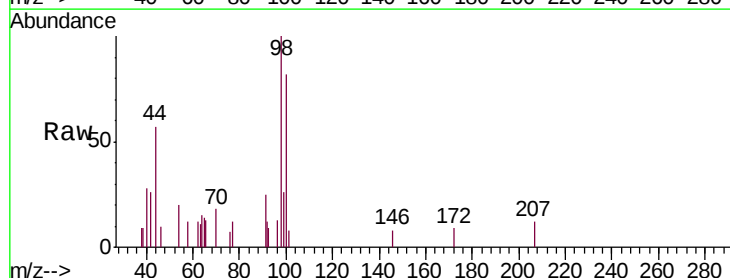
Acq: 25 Jul 2018 00:55

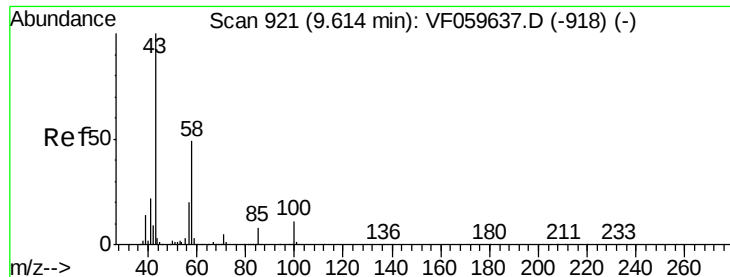
Tgt Ion: 63 Resp: 292

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

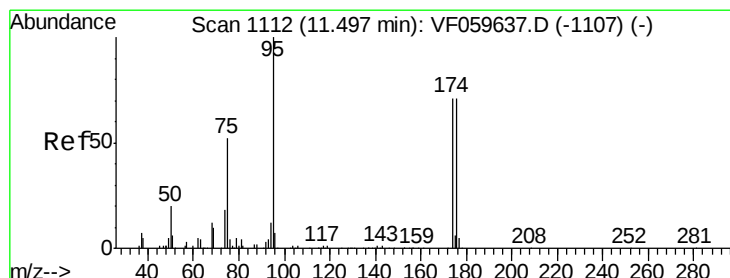
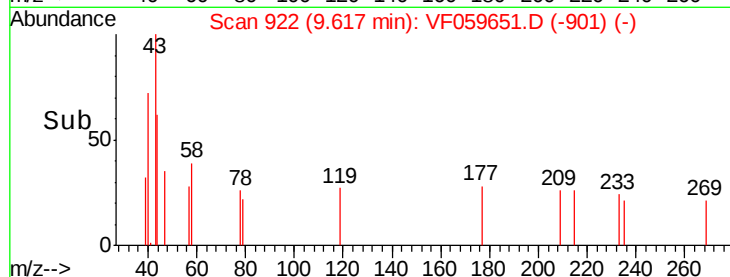
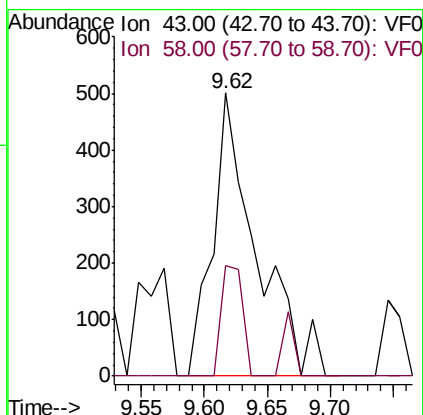
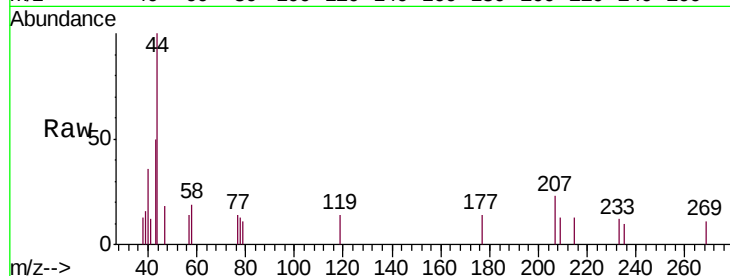




#59
2-Hexanone
Concen: 1.406 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

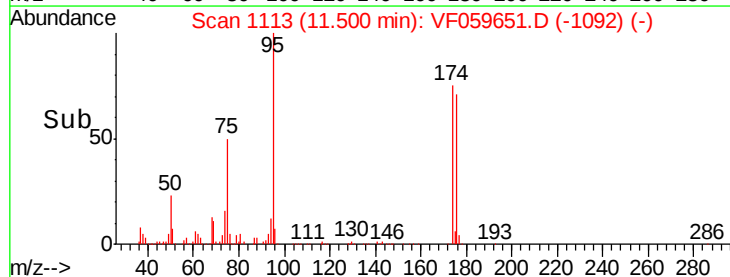
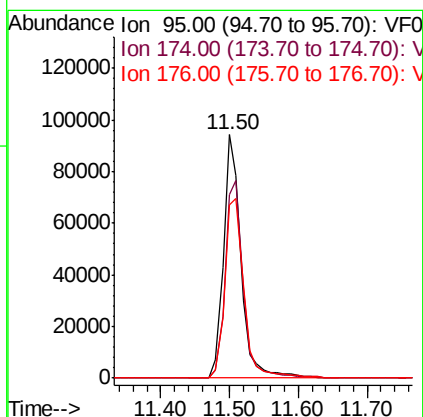
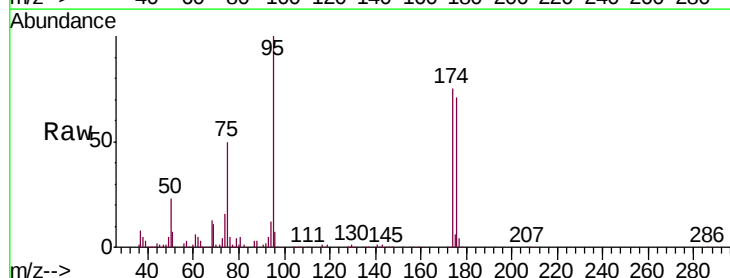
Instrument :
MSVOA_F
ClientSampleId :

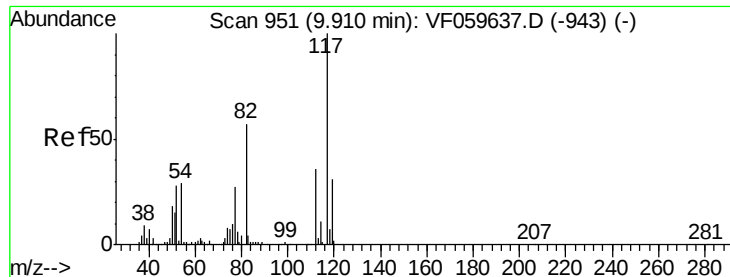
Tot Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
58 38.9 23.6 71.0



#62
4-Bromofluorobenzene
Concen: 43.420 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

Tgt Ion: 95 Resp: 166225
Ion Ratio Lower Upper
95 100
174 75.2 0.0 141.8
176 71.1 0.0 142.0

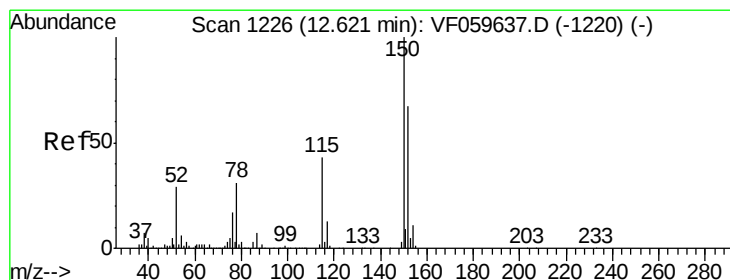
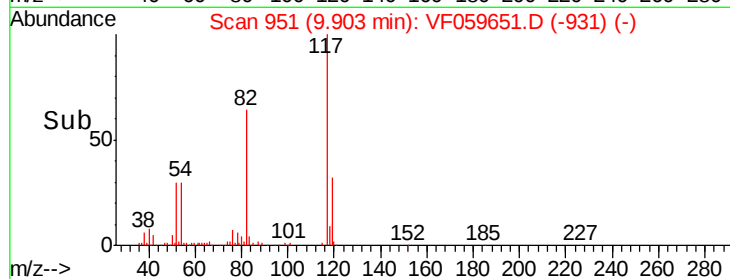
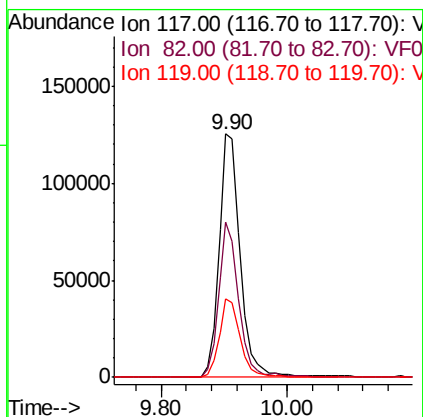
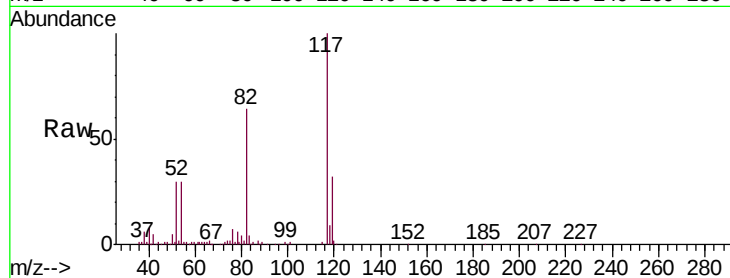




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

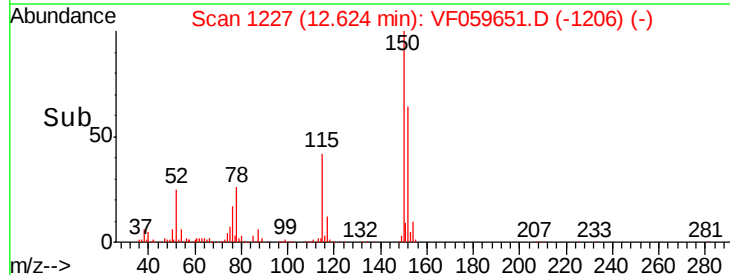
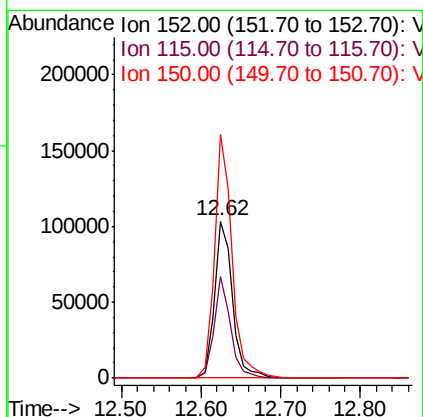
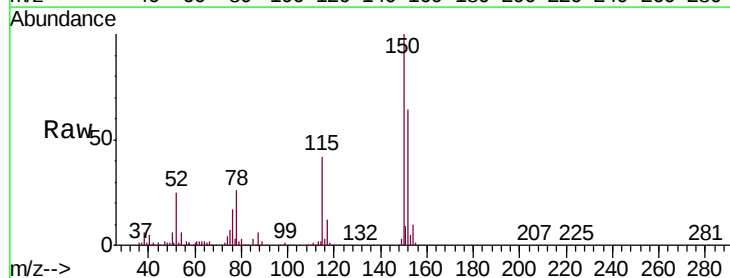
Instrument :
MSVOA_F
ClientSampleId :

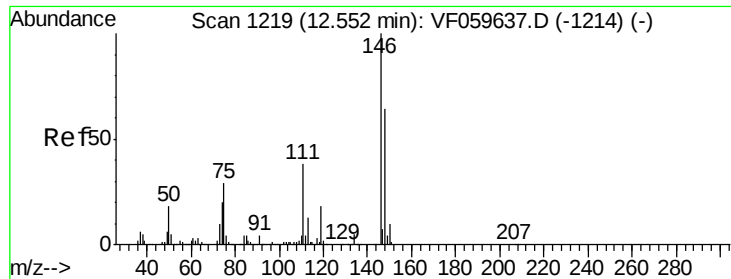
Tot Ion	Ratio	Lower	Upper
117	100		
82	63.8	45.9	68.9
119	32.1	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.00 min
Lab File: VF059651.D
Acq: 25 Jul 2018 00:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.0	32.0	96.2
150	155.4	0.0	313.2

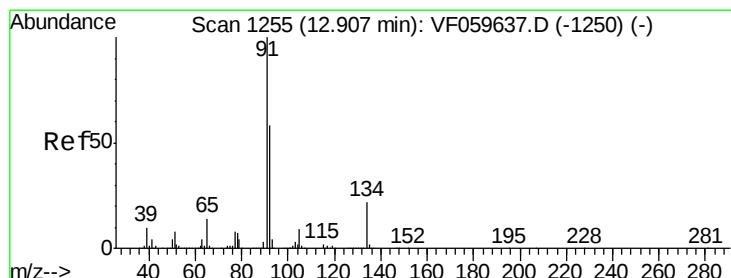
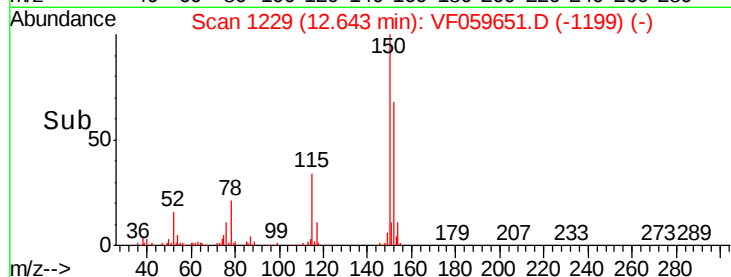
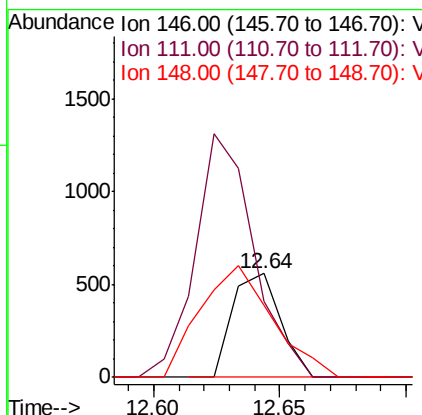
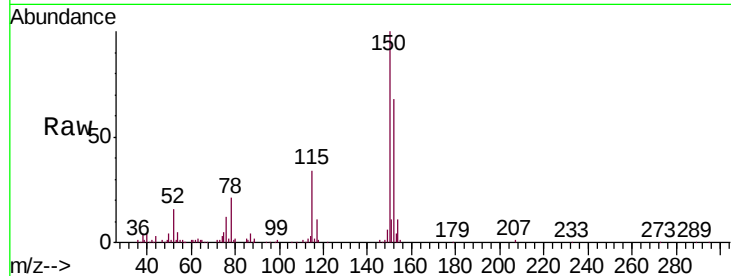




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.64 min Scan# 1229
 Delta R.T. 0.09 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

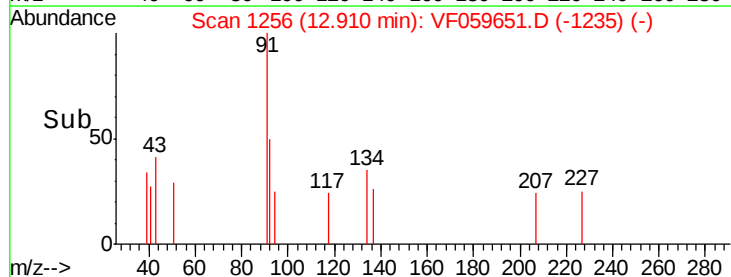
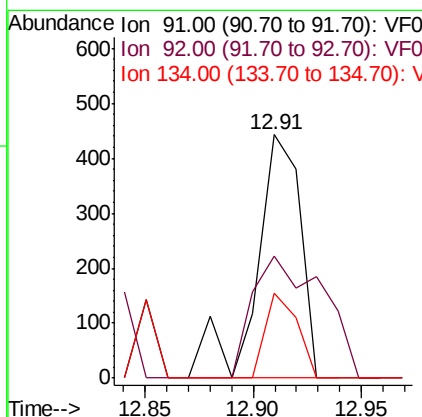
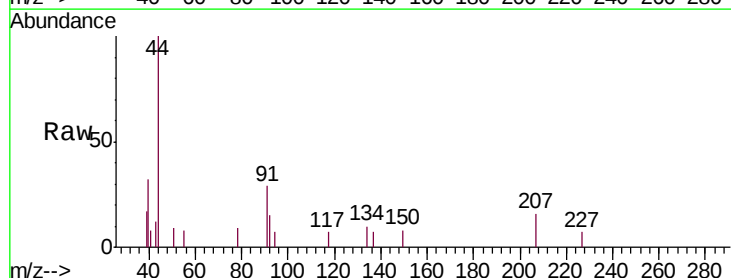
Instrument :
 MSVOA_F
 ClientSampleId :

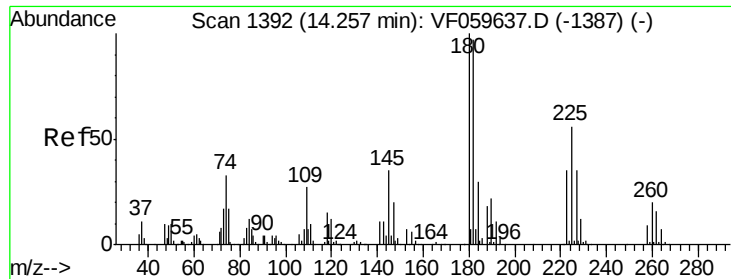
Tot Ion	Ratio	Lower	Upper
146	100		
111	56.2	19.1	57.1
148	53.4	31.9	95.9



#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 12.91 min Scan# 1256
 Delta R.T. 0.00 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.9	29.1	87.3
134	35.0	11.2	33.6





#93
 1,2,4-Trichlorobenzene
 Concen: Below Cal
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059651.D
 Acq: 25 Jul 2018 00:55

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	64.4	48.5	145.6
145	58.1	17.4	52.2#

