

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\
 Data File : VF061170.D
 Acq On : 24 Dec 2018 17:36
 Operator : VA/AP
 Sample : J6389-07RE
 Misc : 5.78g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 23:48:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	83663	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	148398	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	101236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	33930	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	60043	55.80	ug/l	0.00
Spiked Amount			Recovery	=	111.60%	
35) Dibromofluoromethane	4.11	113	63143	53.12	ug/l	0.00
Spiked Amount			Recovery	=	106.24%	
50) Toluene-d8	7.55	98	143646	42.64	ug/l	0.00
Spiked Amount			Recovery	=	85.28%	
62) 4-Bromofluorobenzene	11.41	95	46647	30.04	ug/l	0.00
Spiked Amount			Recovery	=	60.08%	

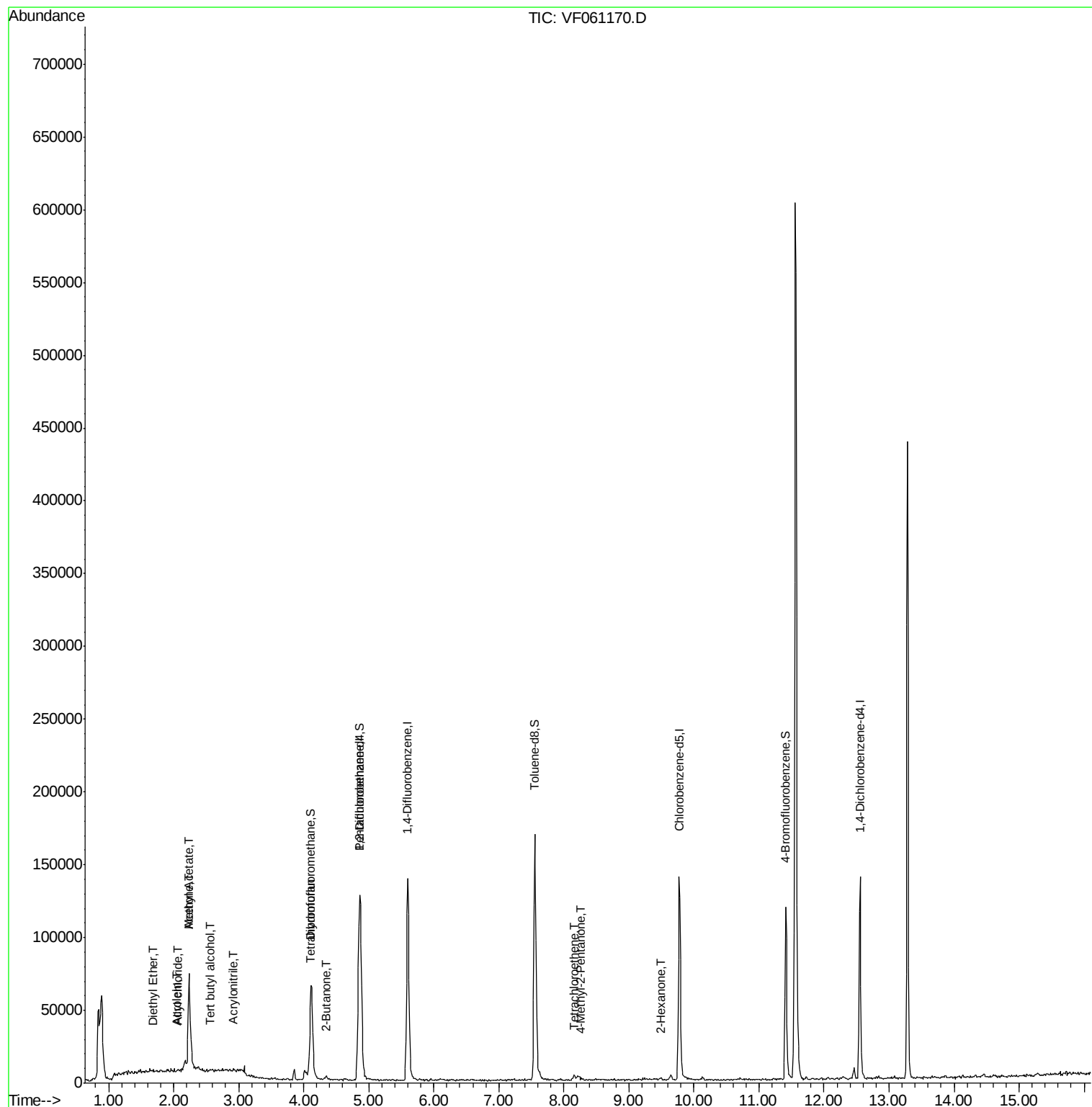
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.66	74	295	1.142	ug/l #	1
11) Tert butyl alcohol	2.57	59	152	3.500	ug/l #	65
13) Acrolein	2.05	56	179	5.705	ug/l	99
14) Allyl chloride	2.06	41	825	1.075	ug/l #	63
15) Acrylonitrile	2.92	53	542	5.398	ug/l #	14
16) Acetone	2.24	43	117266	545.134	ug/l #	93
18) Methyl Acetate	2.24	43	111248	249.966	ug/l #	66
20) Methylene Chloride	2.23	84	979	Below Cal	#	54
25) 2-Butanone	4.34	43	6158	17.651	ug/l	99
29) Tetrahydrofuran	4.09	42	373	2.627	ug/l #	48
51) 4-Methyl-2-Pentanone	8.26	43	1082	1.824	ug/l	96
59) 2-Hexanone	9.49	43	1087	2.534	ug/l #	27
64) Tetrachloroethene	8.17	164	1191	1.529	ug/l #	78
70) Styrene	10.79	104	73	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.49	146	60	Below Cal	#	25

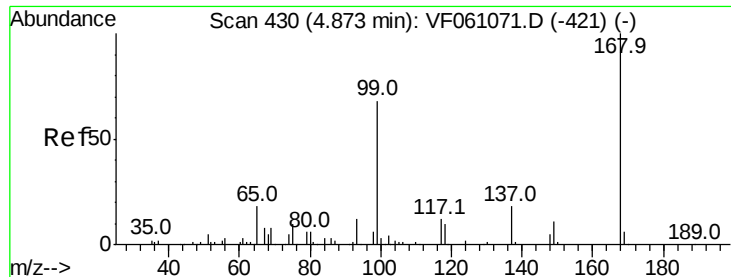
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.00 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

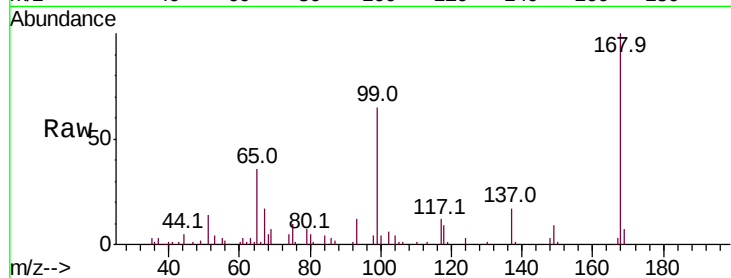
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 83663

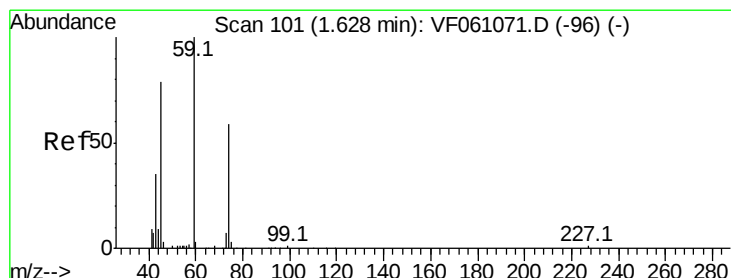
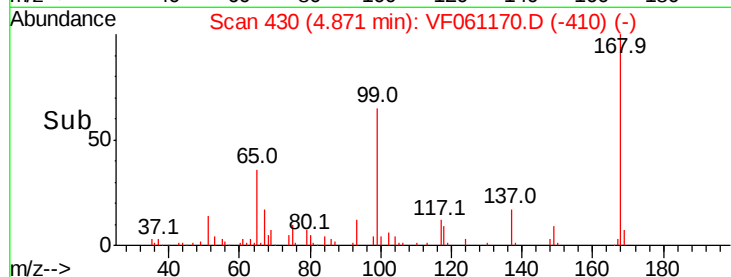
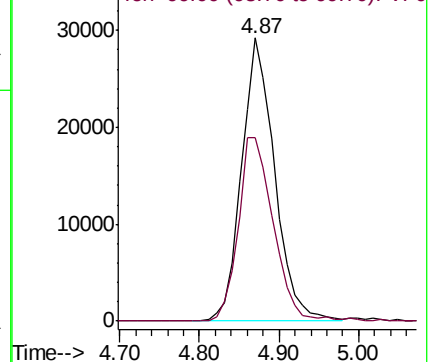
Ion Ratio Lower Upper

168 100

99 64.9 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#8

Diethyl Ether

Concen: 1.142 ug/l

RT: 1.66 min Scan# 105

Delta R.T. 0.04 min

Lab File: VF061170.D

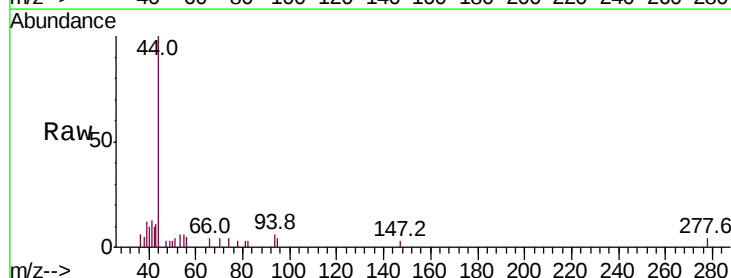
Acq: 24 Dec 2018 17:36

Tgt Ion: 74 Resp: 295

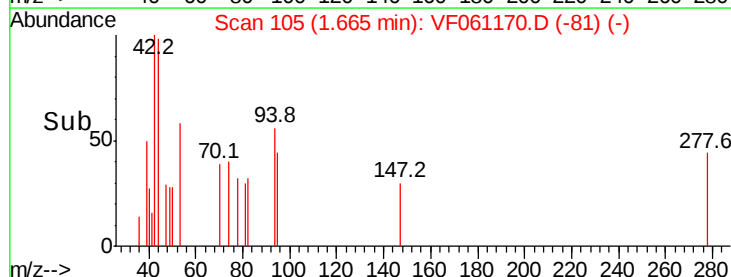
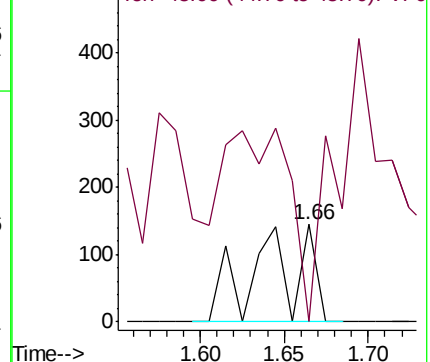
Ion Ratio Lower Upper

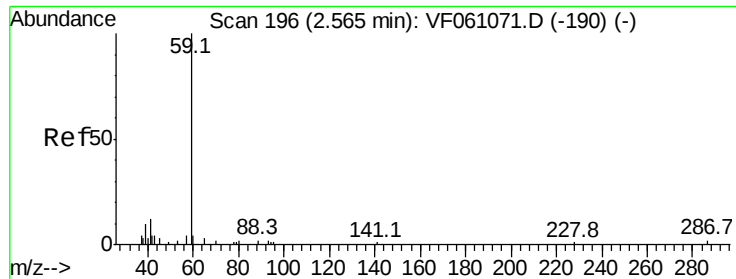
74 100

45 0.0 67.8 203.4#



Abundance Ion 74.00 (73.70 to 74.70): VF0

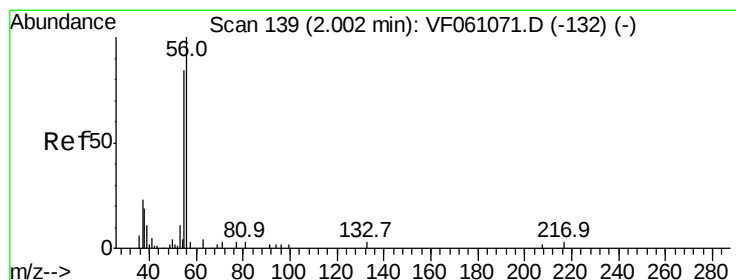
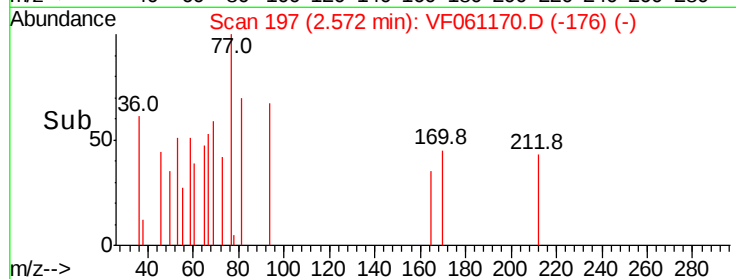
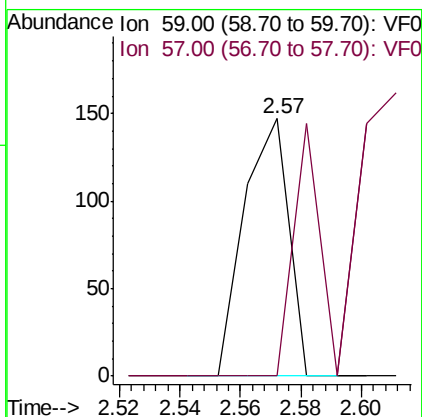
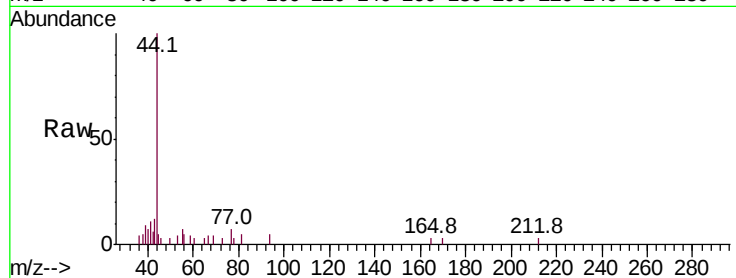




#11
Tert butyl alcohol
Concen: 3.500 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

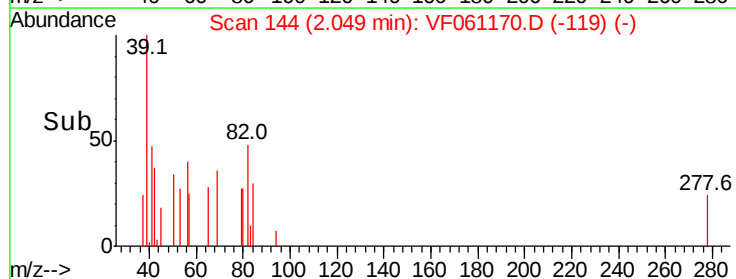
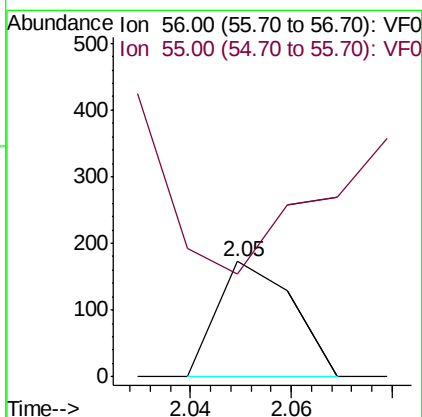
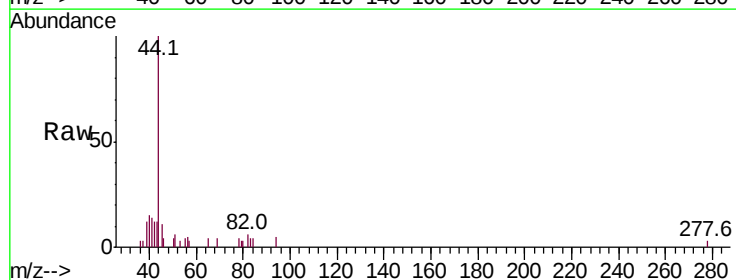
Instrument :
MSVOA_F
ClientSampleId :

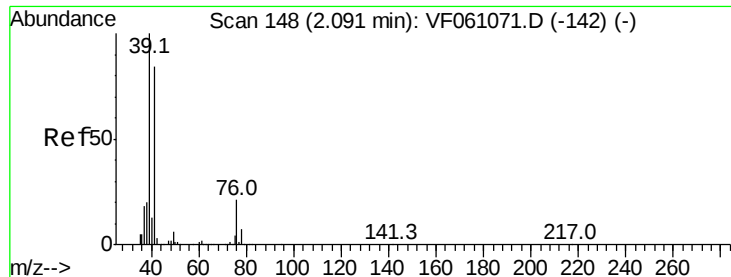
Tot Ion: 59 Resp: 152
Ion Ratio Lower Upper
59 100
57 0.0 11.5 17.3#



#13
Acrolein
Concen: 5.705 ug/l
RT: 2.05 min Scan# 144
Delta R.T. 0.05 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

Tgt Ion: 56 Resp: 179
Ion Ratio Lower Upper
56 100
55 89.0 70.2 105.2

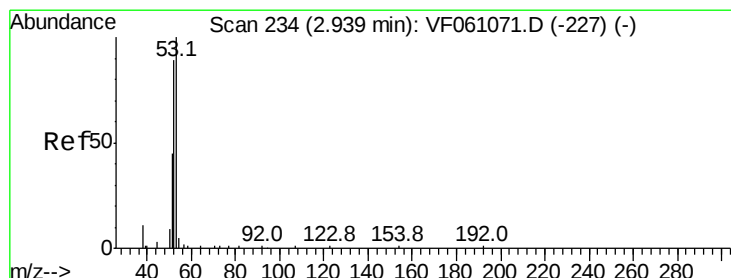
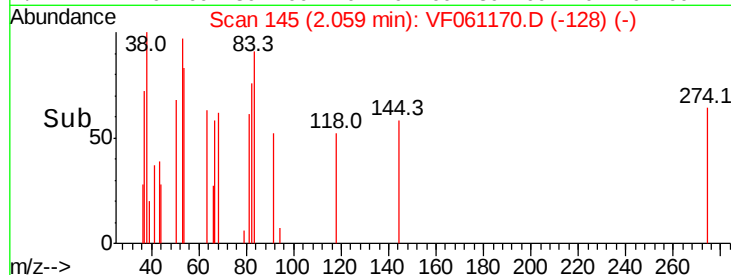
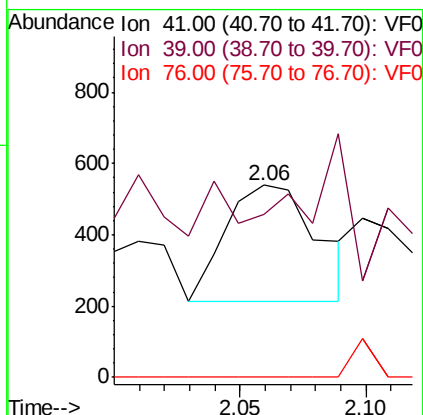
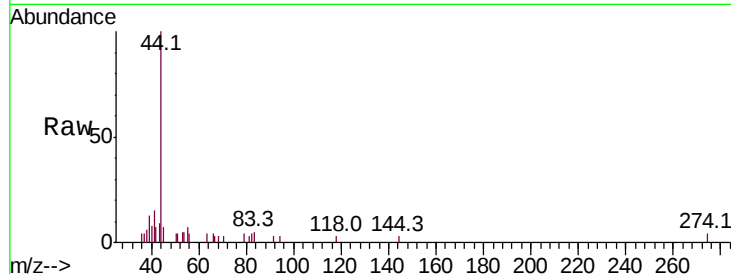




#14
Allvl chloride
Concen: 1.075 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.03 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

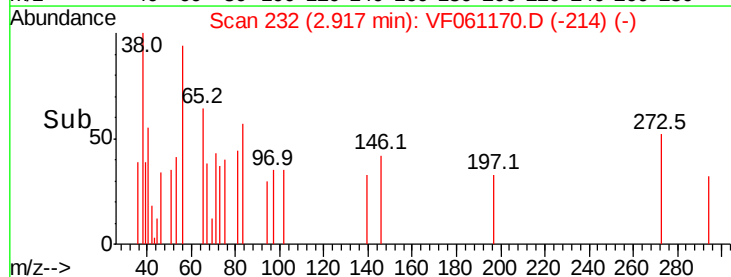
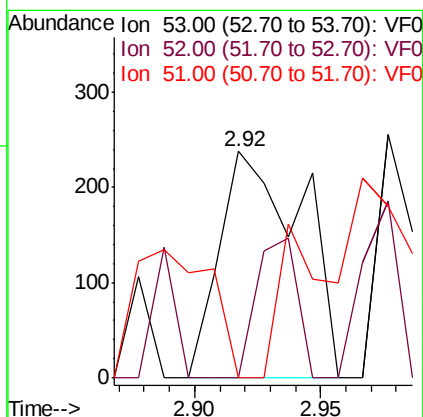
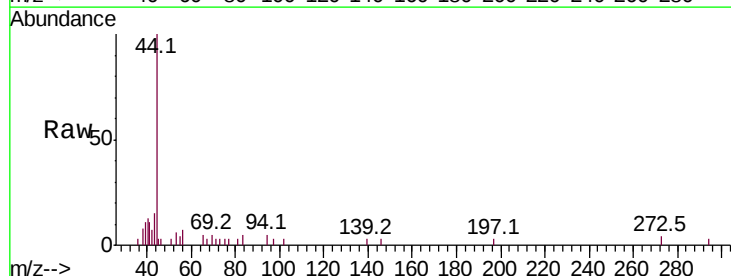
Instrument :
MSVOA_F
ClientSampleId :

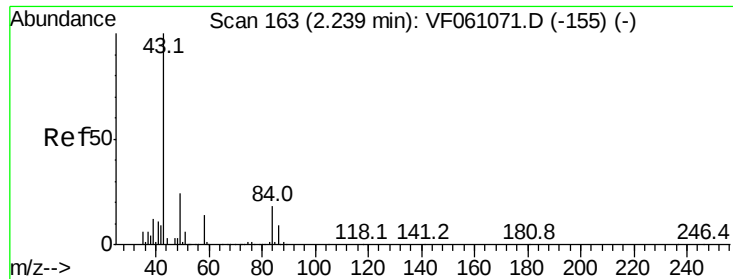
Tot Ion: 41 Resp: 825
Ion Ratio Lower Upper
41 100
39 84.6 96.4 144.6#
76 0.0 25.4 38.0#



#15
Acrylonitrile
Concen: 5.398 ug/l
RT: 2.92 min Scan# 232
Delta R.T. -0.02 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

Tgt Ion: 53 Resp: 542
Ion Ratio Lower Upper
53 100
52 0.0 71.3 106.9#
51 0.0 36.8 55.2#

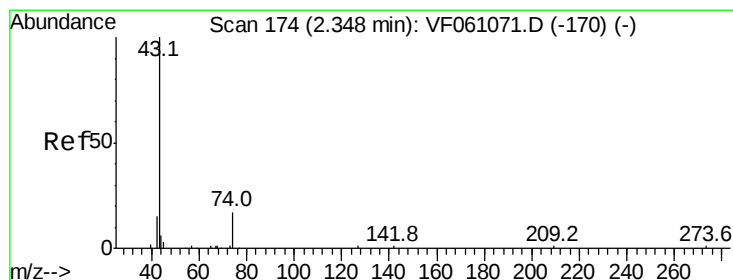
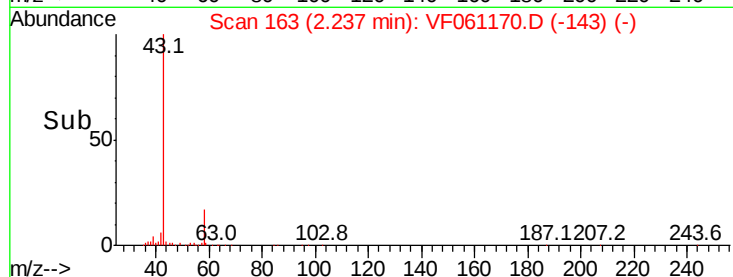
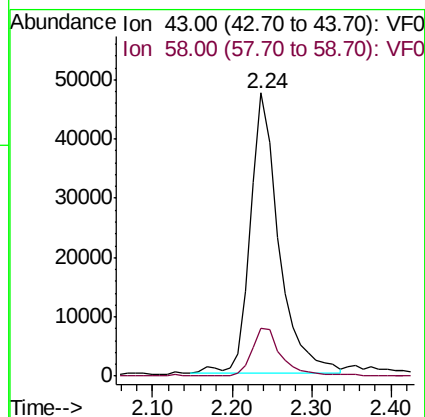
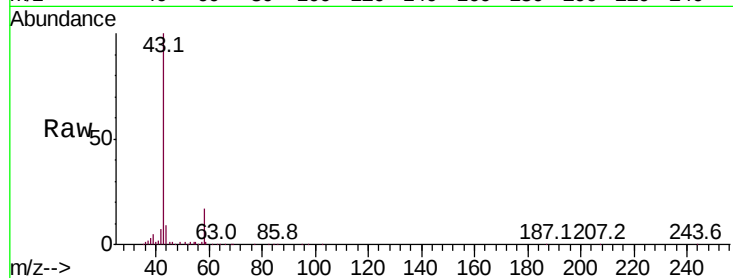




#16
Acetone
Concen: 545.134 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.00 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

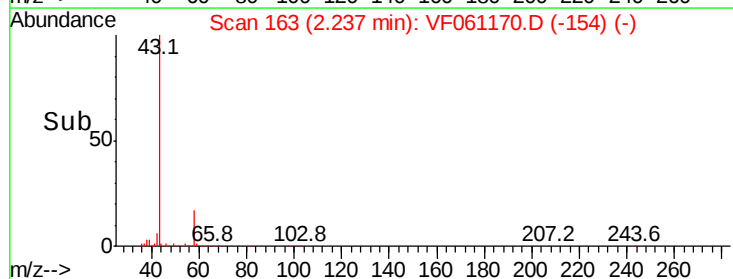
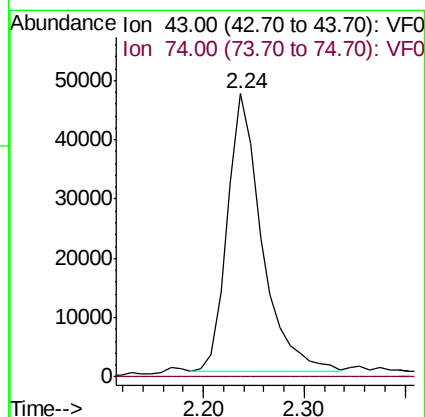
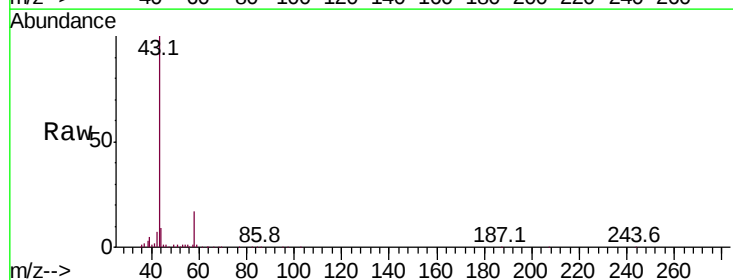
Instrument :
MSVOA_F
ClientSampleId :

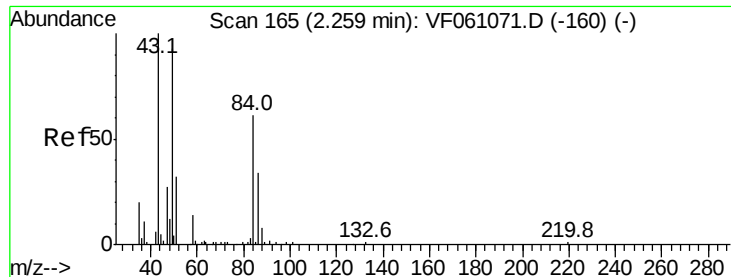
Tot Ion: 43 Resp: 117266
Ion Ratio Lower Upper
43 100
58 16.7 11.1 16.7#



#18
Methyl Acetate
Concen: 249.966 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.11 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

Tgt Ion: 43 Resp: 111248
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

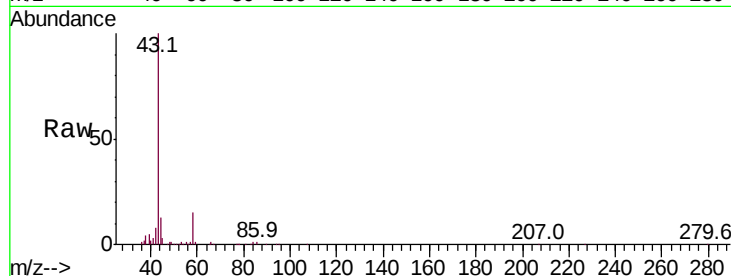
Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 979

Ion	Ratio	Lower	Upper
84	100		
49	77.6	129.4	194.2#
51	25.7	44.0	66.0#
86	57.6	46.3	69.5

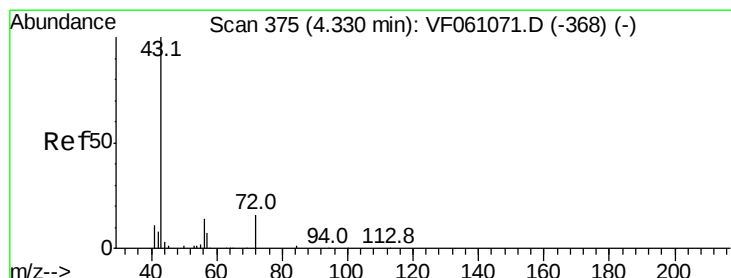
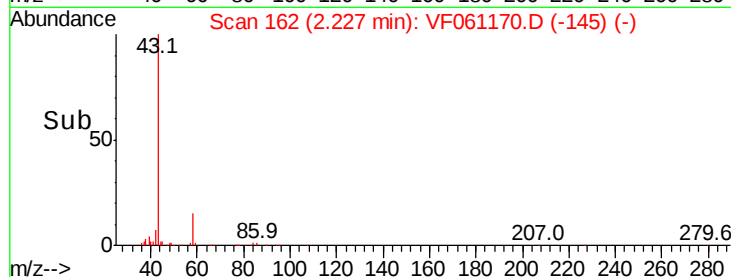
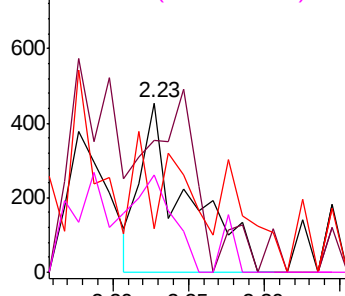


Abundance Ion 84.00 (83.70 to 84.70): VF0

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



#25

2-Butanone

Concen: 17.651 ug/l

RT: 4.34 min Scan# 376

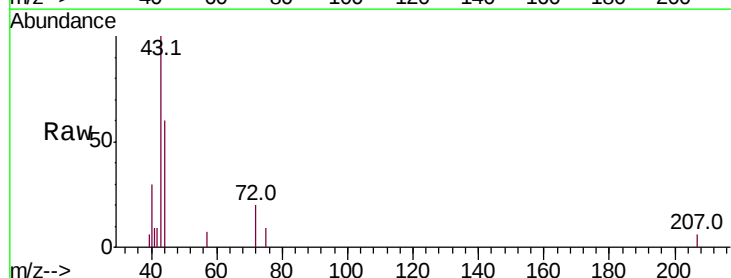
Delta R.T. 0.01 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

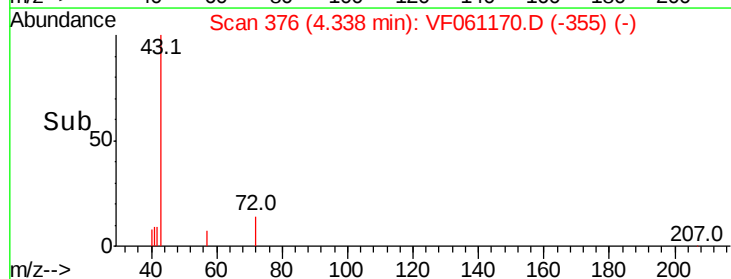
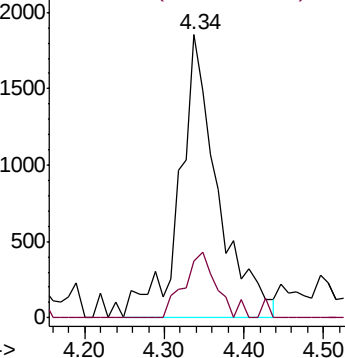
Tgt Ion: 43 Resp: 6158

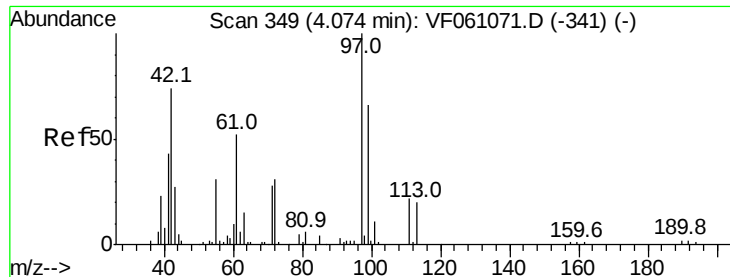
Ion	Ratio	Lower	Upper
43	100		
72	20.0	15.6	23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.627 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

Instrument :
MSVOA_F
ClientSampled :

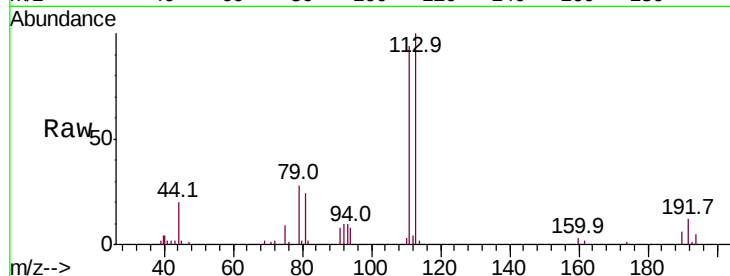
Tot Ion: 42 Resp: 373

Ion Ratio Lower Upper

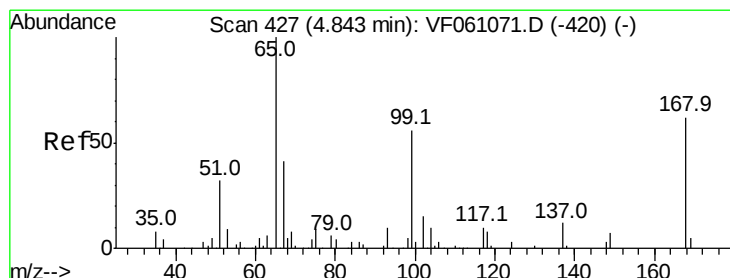
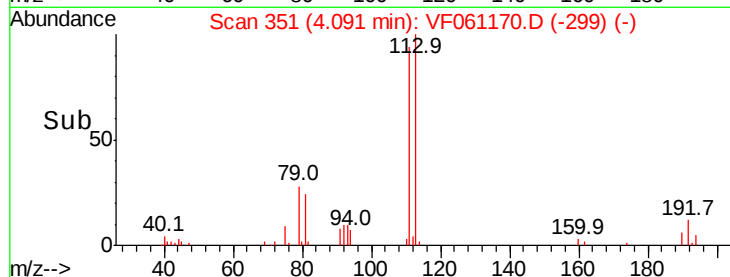
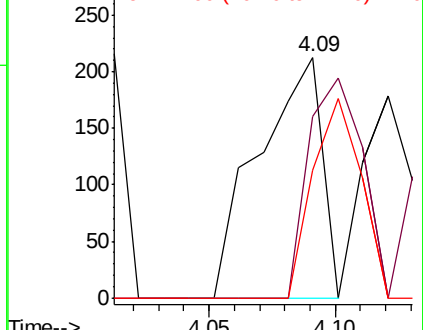
42 100

72 77.5 31.8 47.8#

71 62.7 29.7 44.5#



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: 55.799 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061170.D

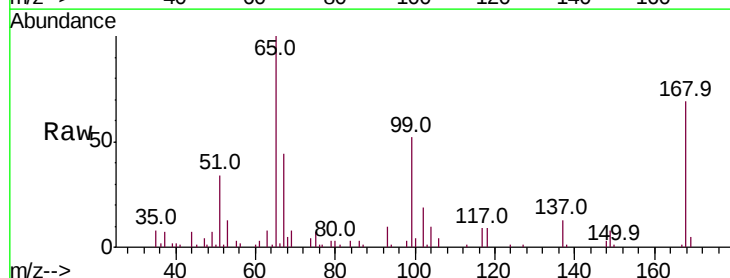
Acq: 24 Dec 2018 17:36

Tgt Ion: 65 Resp: 60043

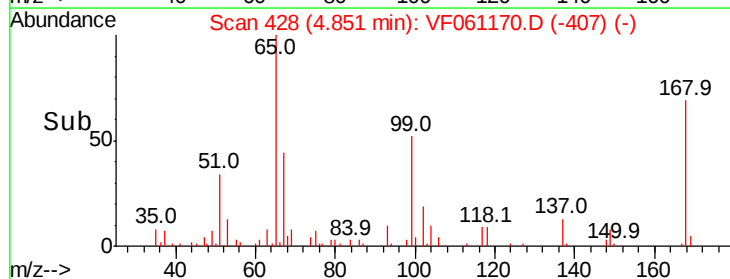
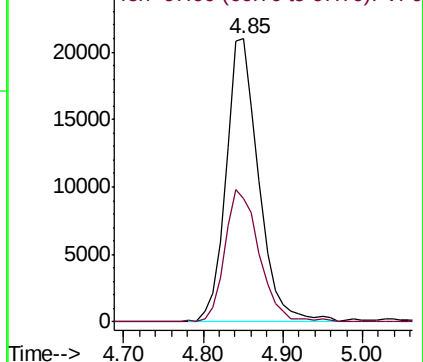
Ion Ratio Lower Upper

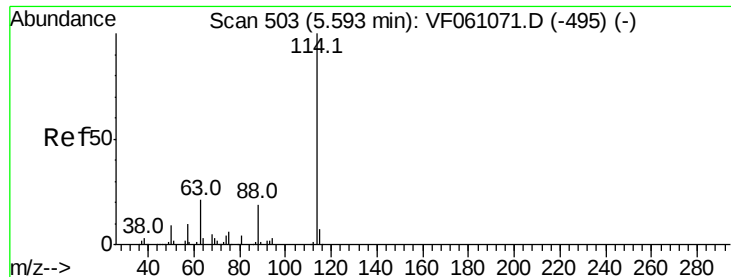
65 100

67 43.7 0.0 94.6



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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

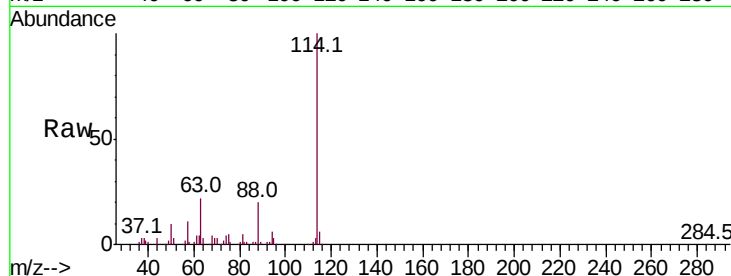
Tot Ion:114 Resp: 148398

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.6

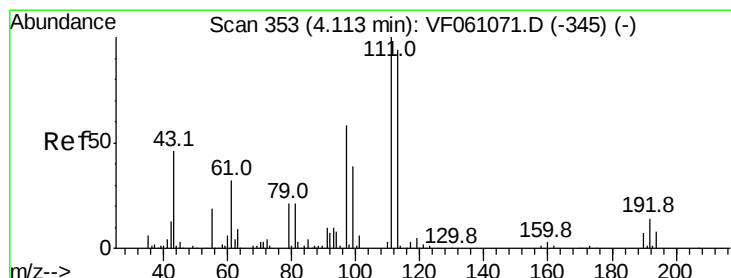
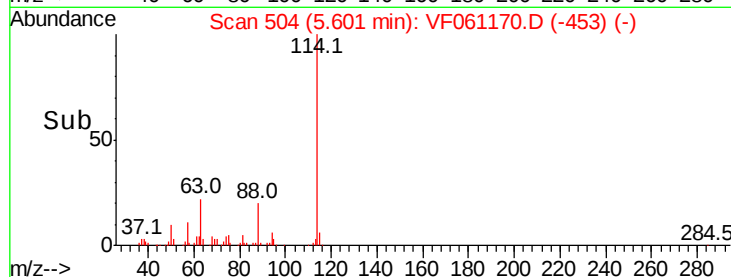
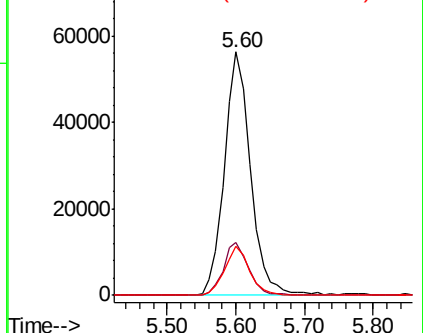
88 20.0 0.0 38.0



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: 53.117 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

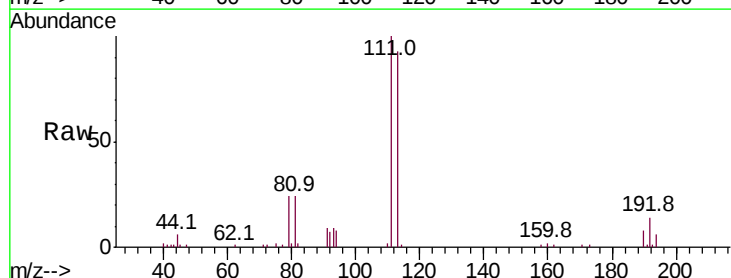
Tgt Ion:113 Resp: 63143

Ion Ratio Lower Upper

113 100

111 107.1 85.2 127.8

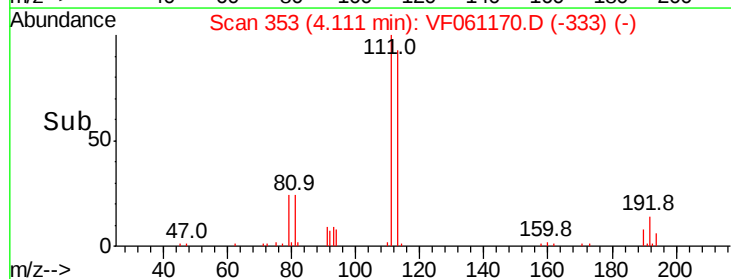
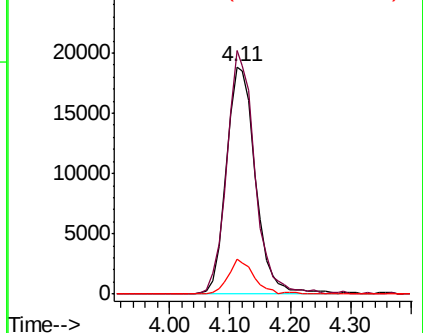
192 16.2 12.8 19.2

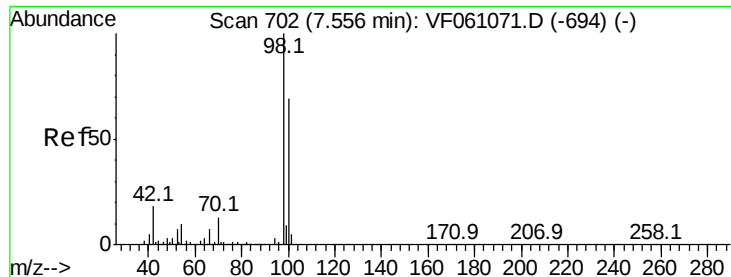


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 42.640 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

Instrument :

MSVOA_F

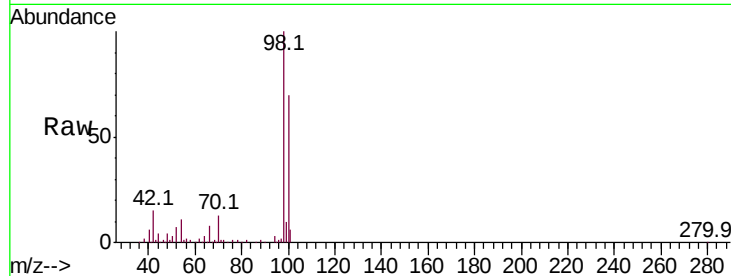
ClientSampleId :

Tot Ion: 98 Resp: 143646

Ion Ratio Lower Upper

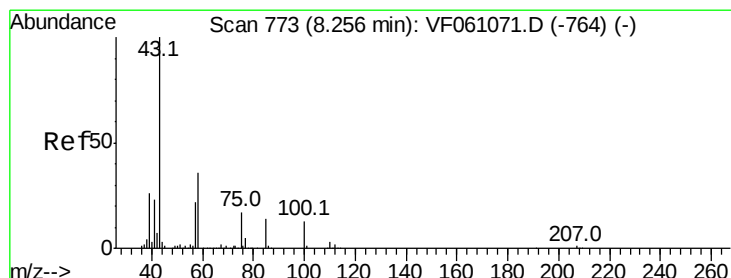
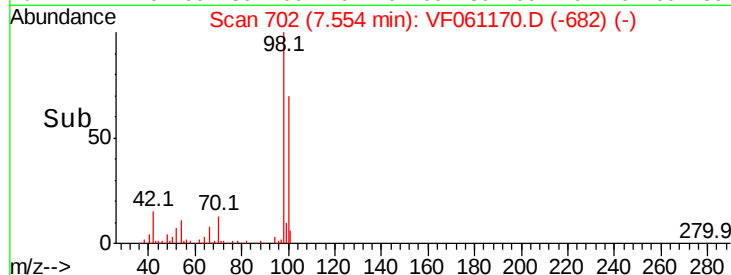
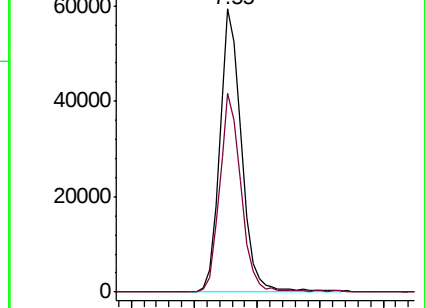
98 100

100 70.3 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 1.824 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061170.D

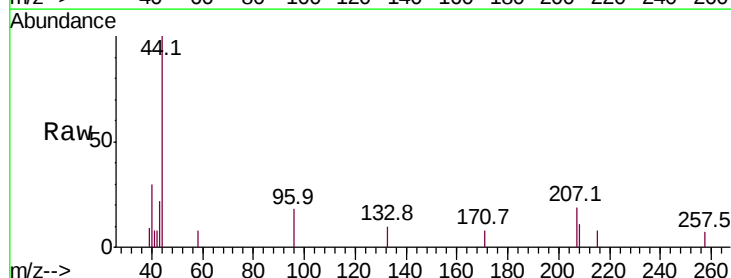
Acq: 24 Dec 2018 17:36

Tgt Ion: 43 Resp: 1082

Ion Ratio Lower Upper

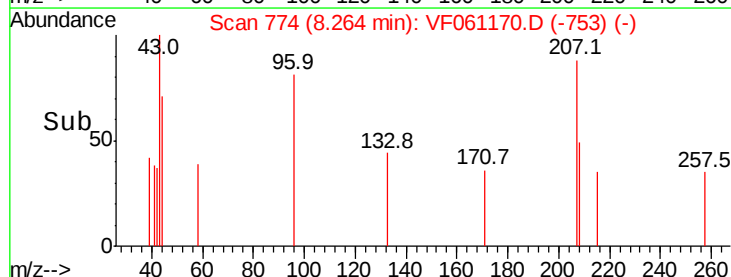
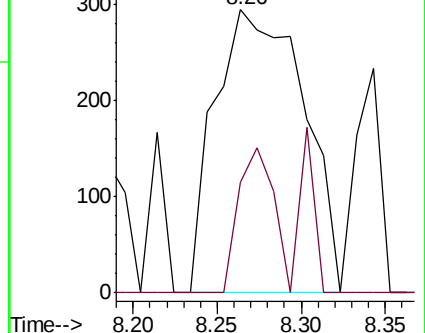
43 100

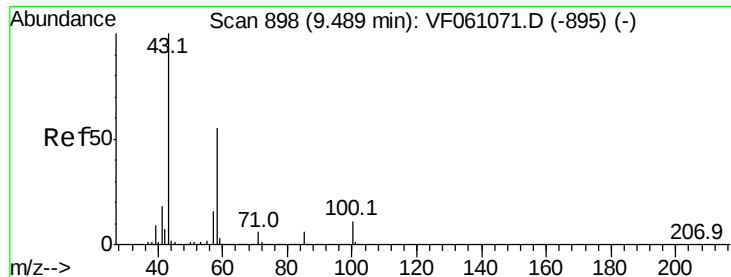
58 39.0 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

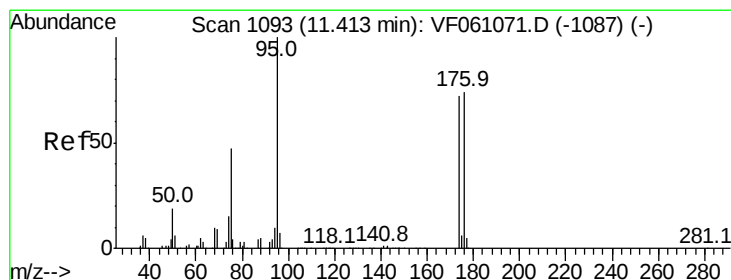
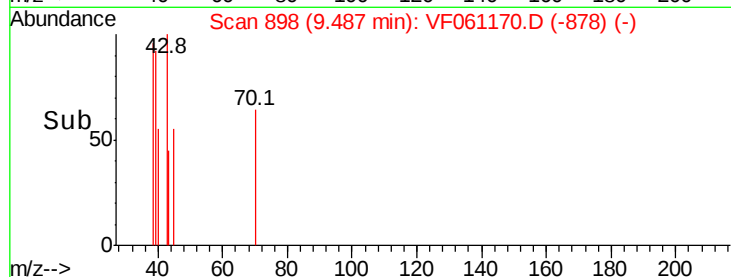
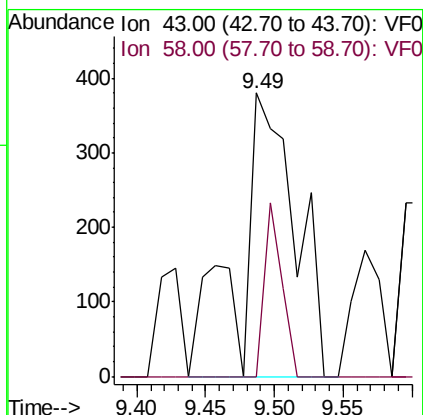
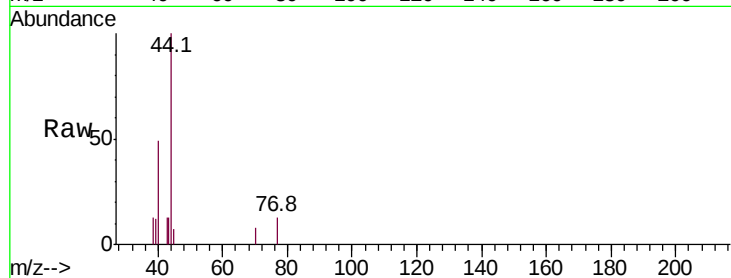




#59
2-Hexanone
Concen: 2.534 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.00 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

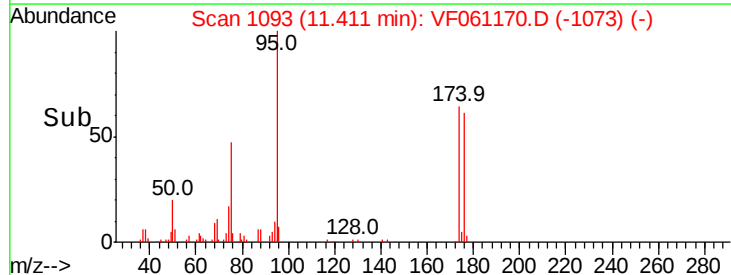
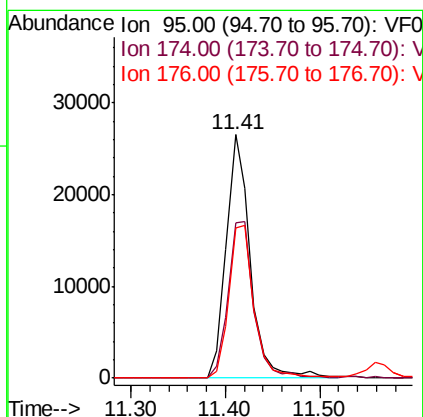
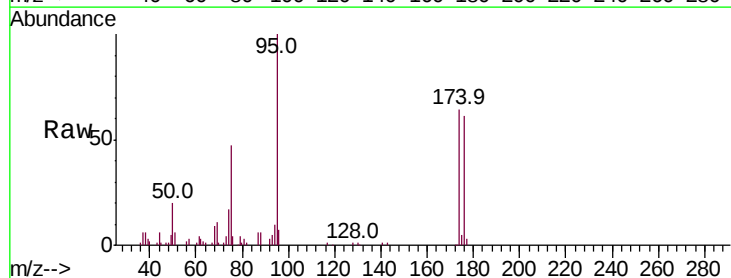
Instrument :
MSVOA_F
ClientSampleId :

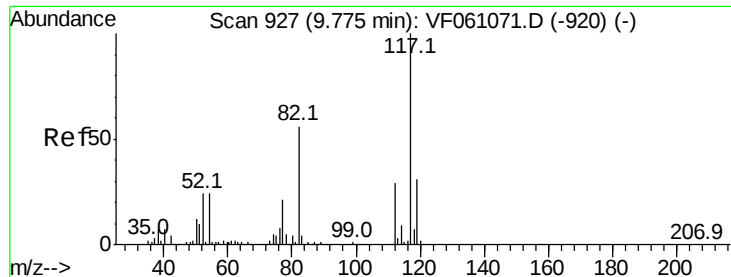
Tot Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 30.036 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

Tgt Ion: 95 Resp: 46647
Ion Ratio Lower Upper
95 100
174 63.9 0.0 143.8
176 61.4 0.0 147.6

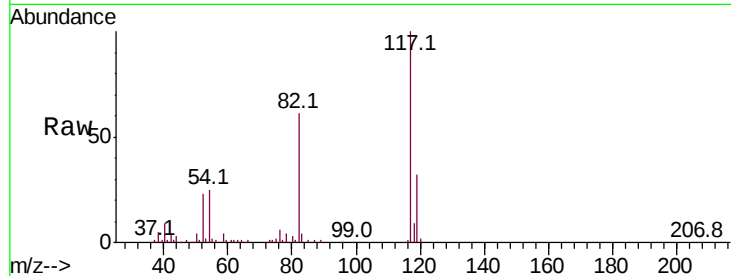




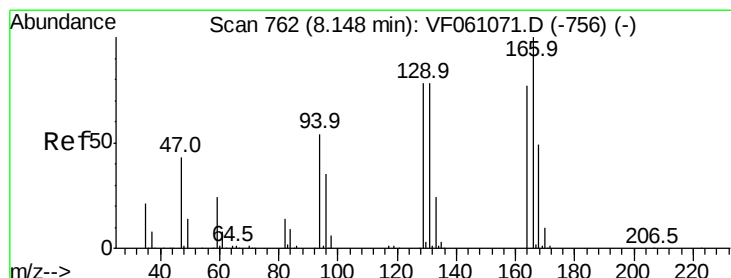
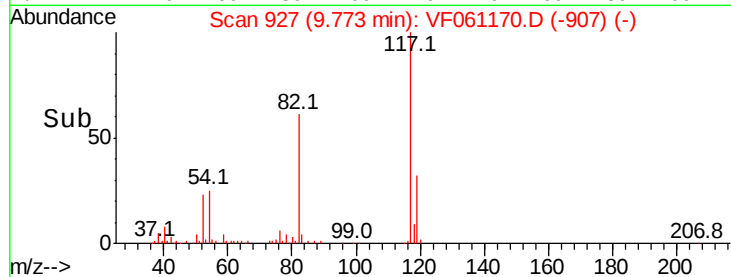
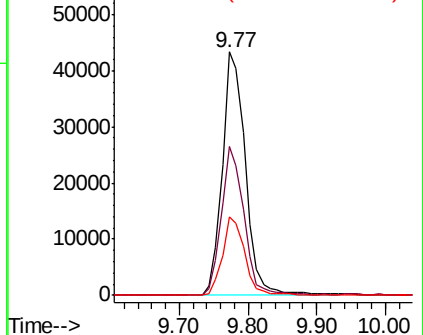
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 101236
Ion Ratio Lower Upper
117 100
82 61.3 45.0 67.4
119 32.3 24.8 37.2

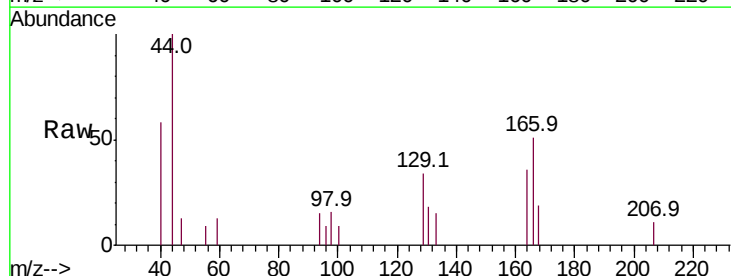


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

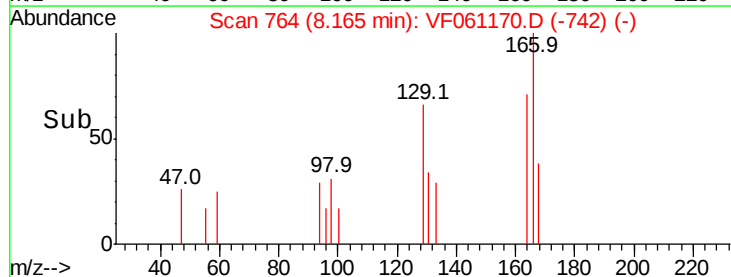
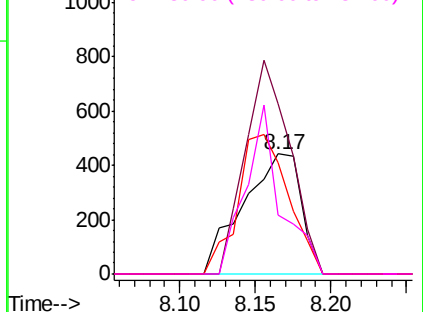


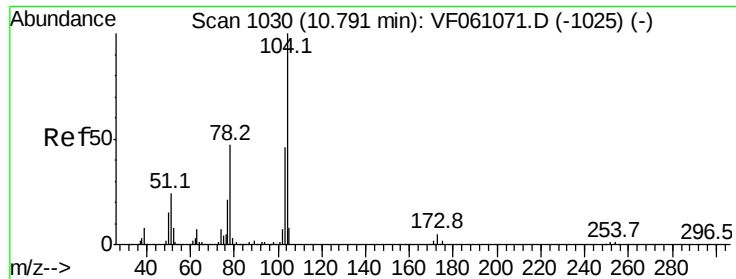
#64
Tetrachloroethene
Concen: 1.529 ug/l
RT: 8.17 min Scan# 764
Delta R.T. 0.02 min
Lab File: VF061170.D
Acq: 24 Dec 2018 17:36

Tgt Ion:164 Resp: 1191
Ion Ratio Lower Upper
164 100
166 141.4 104.0 156.0
129 92.8 81.1 121.7
131 48.6 81.2 121.8#



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





#70

Stvrene

Concen: Below Cal

RT: 10.79 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF061170.D

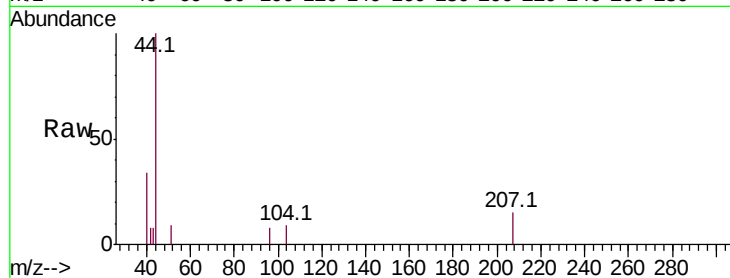
Acq: 24 Dec 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

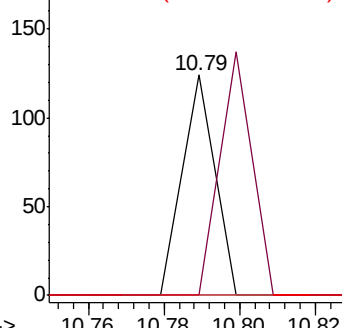
Tot Ion:	104	Resp:	73
Ion	Ratio	Lower	Upper
104	100		
78	0.0	38.4	57.6#
103	0.0	37.0	55.6#



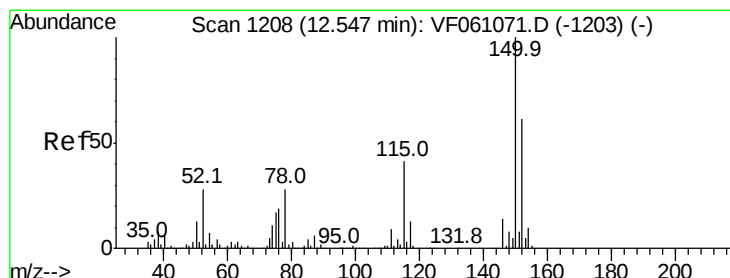
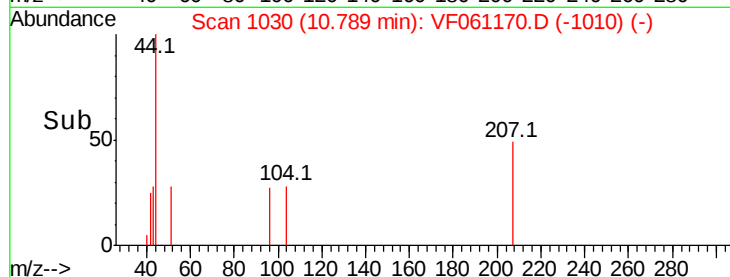
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

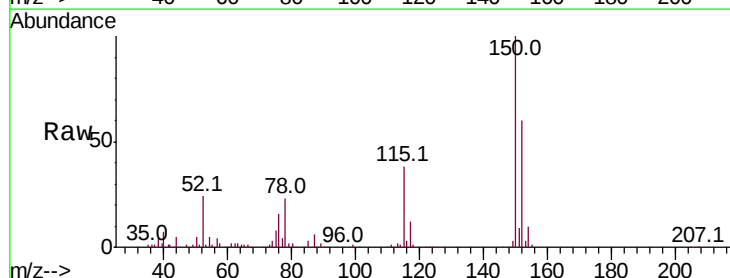
RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061170.D

Acq: 24 Dec 2018 17:36

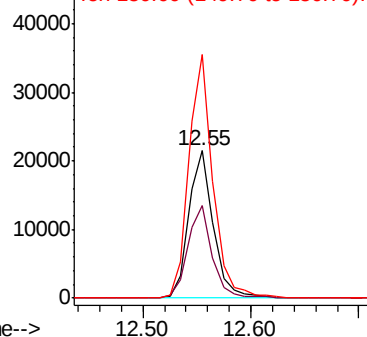
Tgt Ion:	152	Resp:	33930
Ion	Ratio	Lower	Upper
152	100		
115	63.0	33.3	99.9
150	165.4	0.0	328.2



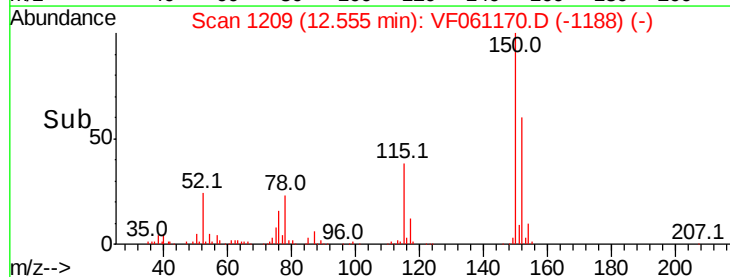
Abundance Ion 152.00 (151.70 to 152.70): V

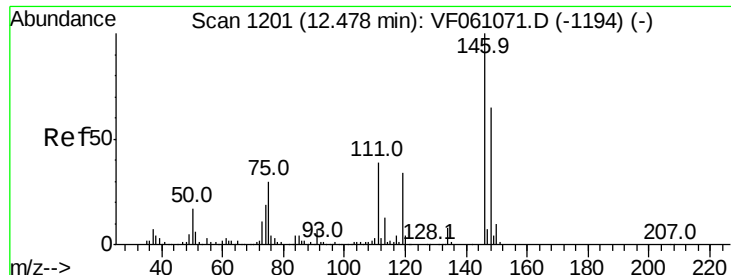
Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



Time-->

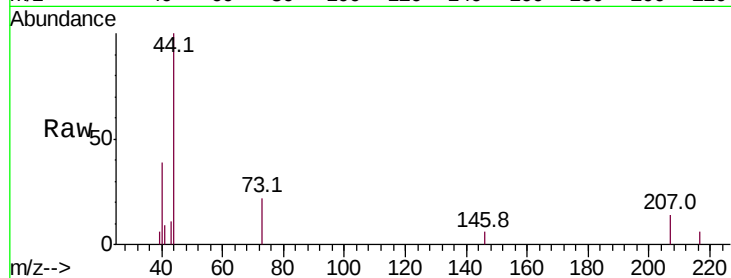




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061170.D
 Acq: 24 Dec 2018 17:36

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	0.0	32.4	97.2#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

