

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059465.D
 Acq On : 6 Jul 2018 22:25
 Operator : VA/AP
 Sample : J3855-04
 Misc : 6.31q/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S-11(7.5-8)

Quant Time: Jul 07 01:52:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.00	168	197713	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.73	114	303439	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.88	117	313515	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	209224	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.98	65	157551	61.68	ug/l	-0.02
Spiked Amount			Recovery	=	123.36%	
35) Dibromofluoromethane	4.25	113	128747	58.07	ug/l	-0.02
Spiked Amount			Recovery	=	116.14%	
50) Toluene-d8	7.68	98	263243	47.95	ug/l	-0.02
Spiked Amount			Recovery	=	95.90%	
62) 4-Bromofluorobenzene	11.49	95	156767	50.63	ug/l	-0.01
Spiked Amount			Recovery	=	101.26%	

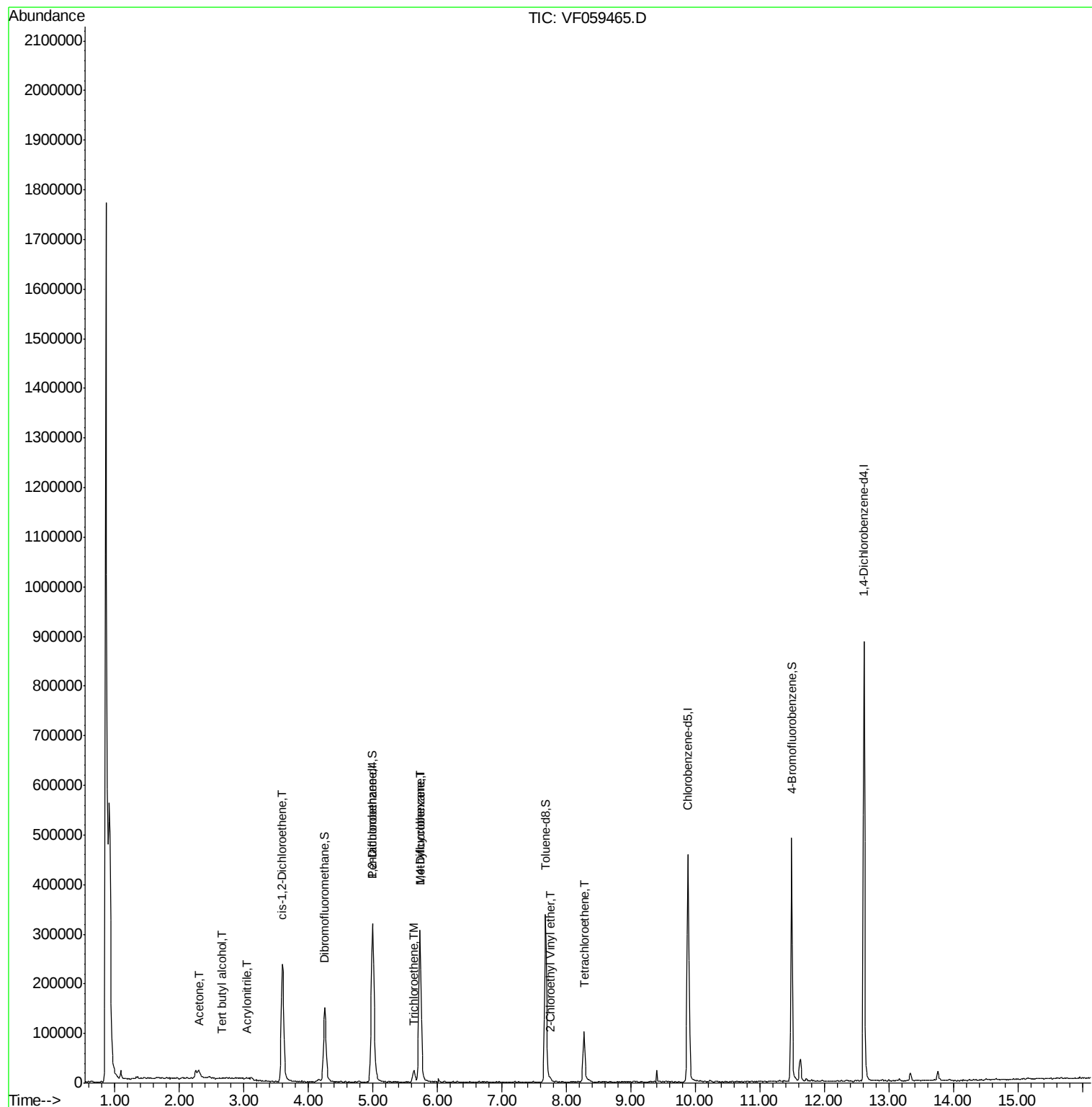
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.29	94	256	Below Cal		95
11) Tert butyl alcohol	2.67	59	287	1.688 ug/l #		66
13) Acrolein	2.05	56	122	Below Cal #		54
15) Acrylonitrile	3.04	53	452	1.509 ug/l #		51
16) Acetone	2.31	43	11587	8.302 ug/l		95
18) Methyl Acetate	2.42	43	1140	Below Cal #		61
20) Methylene Chloride	2.29	84	5609	Below Cal		94
25) 2-Butanone	4.49	43	503	Below Cal #		59
27) cis-1,2-Dichloroethene	3.59	96	126415	66.962 ug/l		88
29) Tetrahydrofuran	4.22	42	525	Below Cal #		69
37) Ethyl Acetate	4.27	43	431	Below Cal #		26
39) Methylcyclohexane	5.73	83	4892	2.083 ug/l #		38
44) Trichloroethene	5.63	130	9010	4.469 ug/l		77
49) 1,4-Dioxane	7.26	88	64	Below Cal #		20
58) 2-Chloroethyl Vinyl ether	7.75	63	969	6.108 ug/l		100
59) 2-Hexanone	9.54	43	468	Below Cal #		30
64) Tetrachloroethene	8.28	164	26839	13.199 ug/l		91
87) 1,3-Dichlorobenzene	12.54	146	293	Below Cal #		45

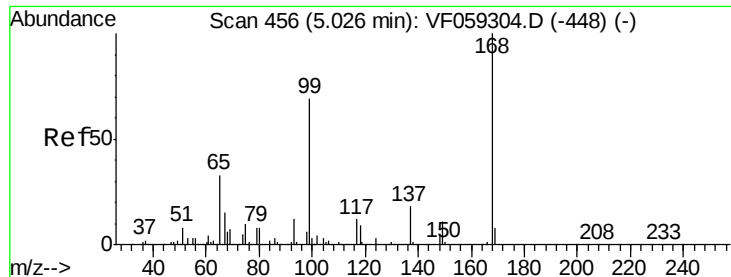
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampleId :

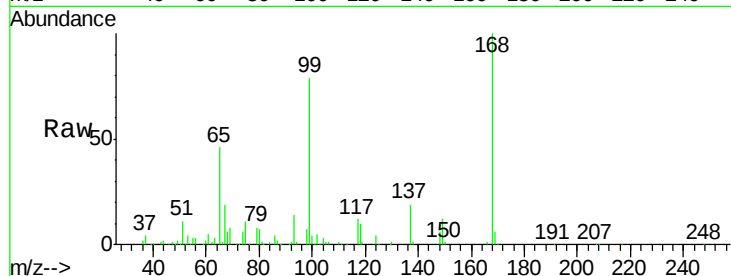
S-11(7.5-8)

Tot Ion:168 Resp: 197713

Ion Ratio Lower Upper

168 100

99 78.9 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.00

80000

60000

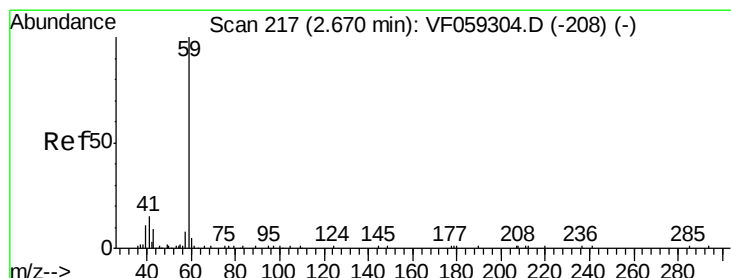
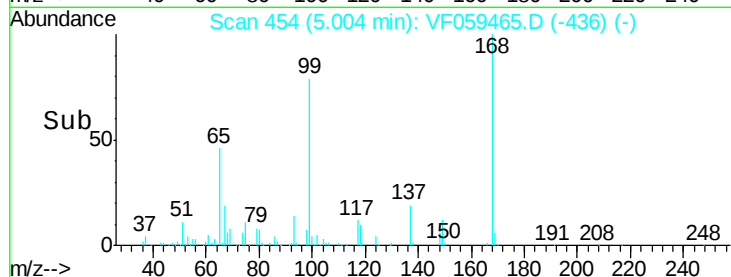
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 1.688 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.00 min

Lab File: VF059465.D

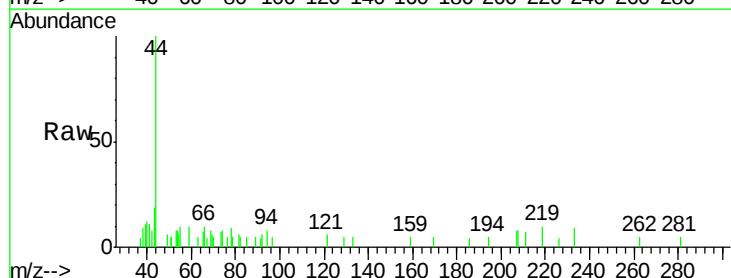
Acq: 6 Jul 2018 22:25

Tgt Ion: 59 Resp: 287

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

250

200

150

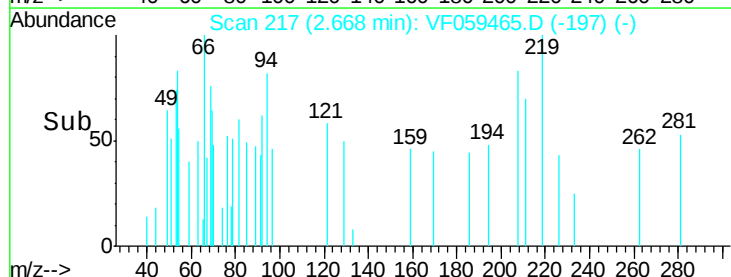
100

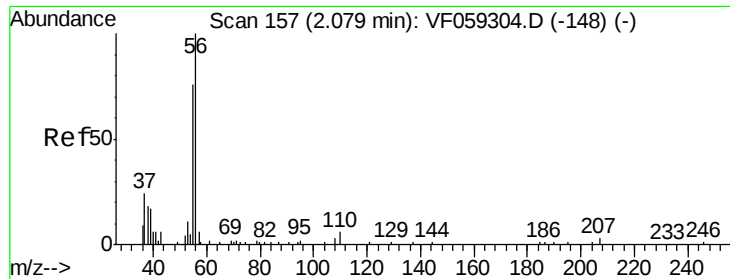
50

0

Time-->

2.62 2.64 2.66 2.68 2.70





#13

Acrolein

Concen: Below Cal

RT: 2.05 min Scan# 154

Delta R.T. -0.03 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampleId :

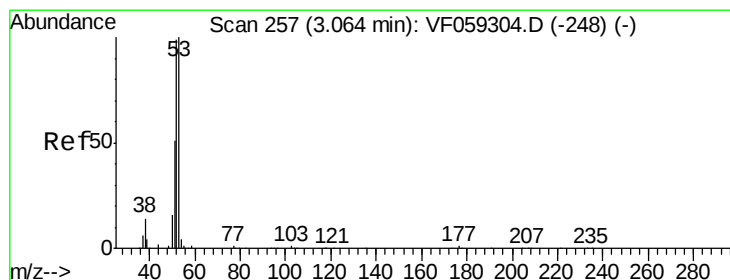
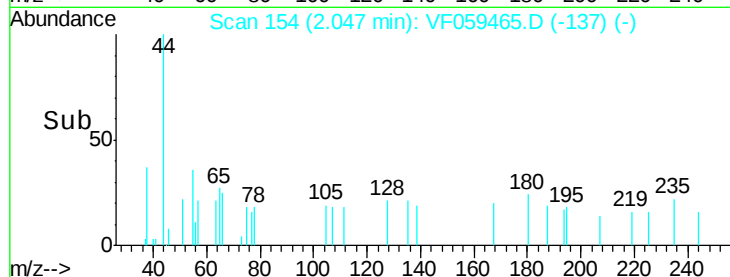
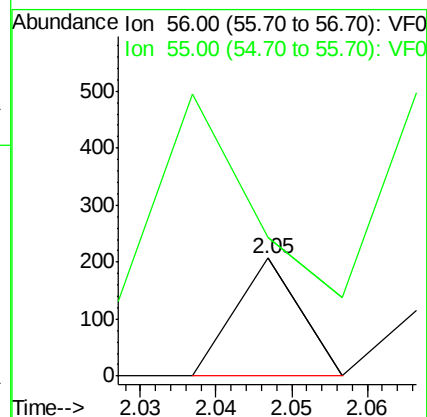
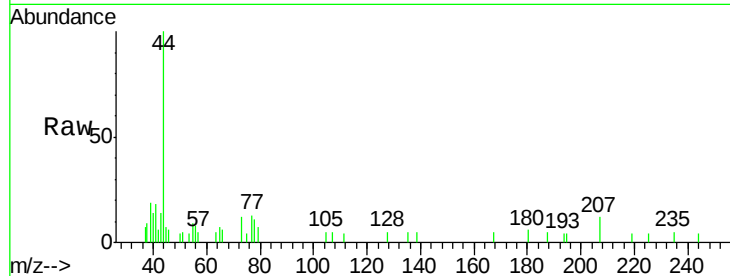
S-11(7.5-8)

Tot Ion: 56 Resp: 122

Ion Ratio Lower Upper

56 100

55 117.9 62.4 93.6#



#15

Acrylonitrile

Concen: 1.509 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

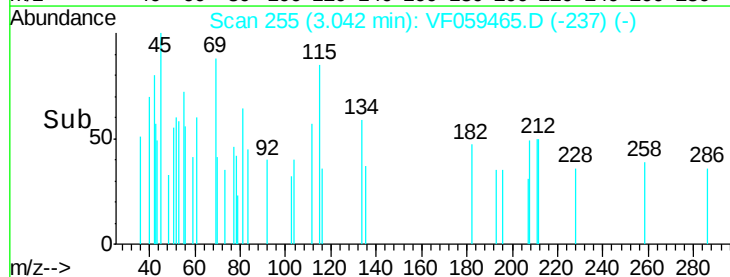
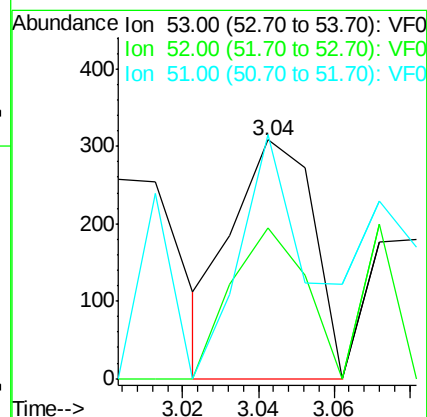
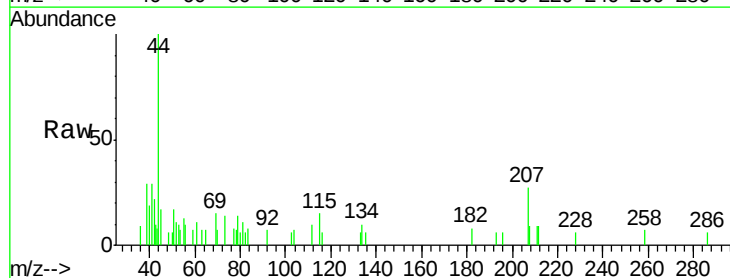
Tgt Ion: 53 Resp: 452

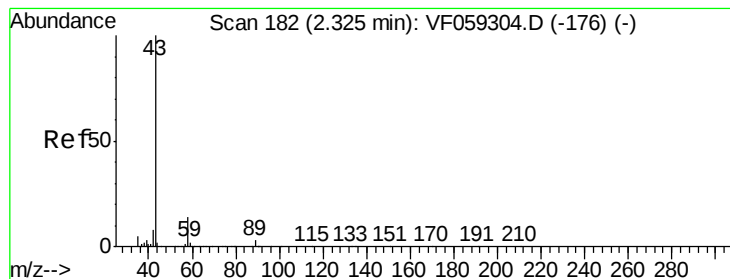
Ion Ratio Lower Upper

53 100

52 63.0 79.2 118.8#

51 102.3 40.9 61.3#





#16

Acetone

Concen: 8.302 ug/l

RT: 2.31 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampleId :

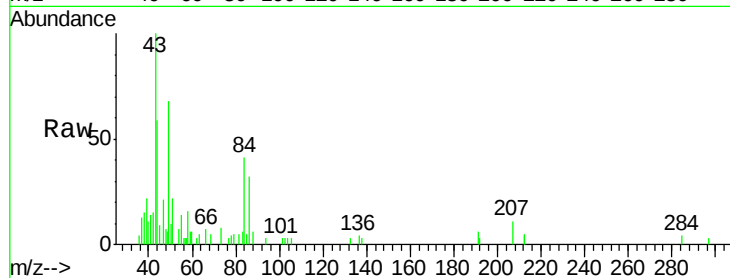
S-11(7.5-8)

Tot Ion: 43 Resp: 11587

Ion Ratio Lower Upper

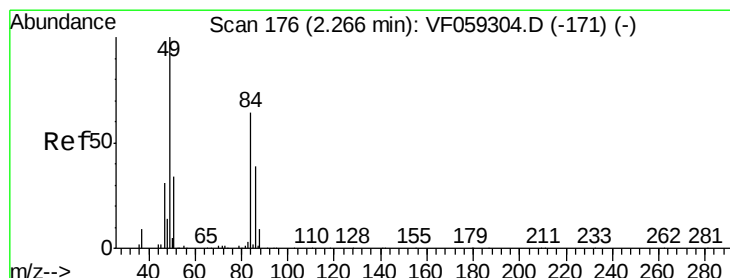
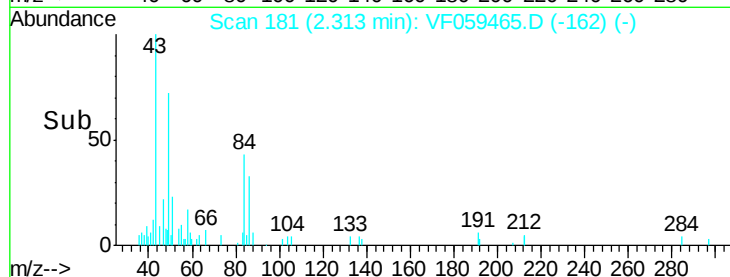
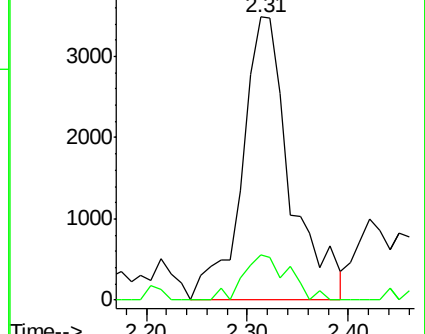
43 100

58 16.0 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.29 min Scan# 179

Delta R.T. 0.03 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Tgt Ion: 84 Resp: 5609

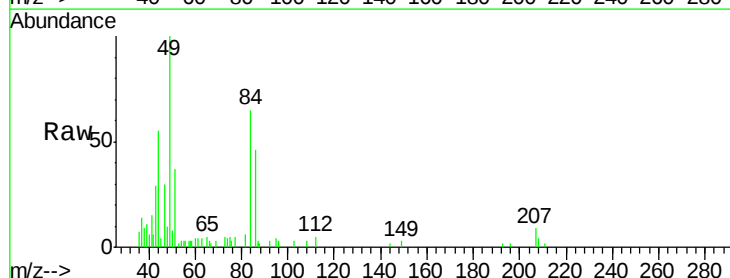
Ion Ratio Lower Upper

84 100

49 152.7 126.5 189.7

51 56.4 42.9 64.3

86 70.6 48.6 73.0

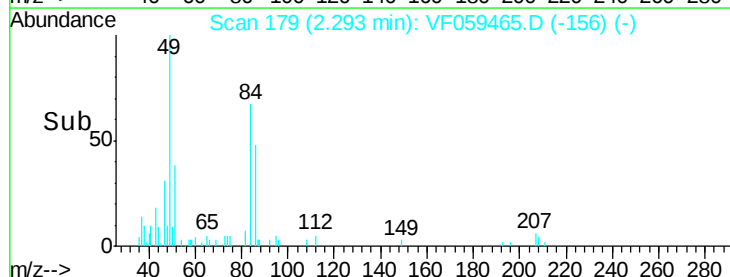
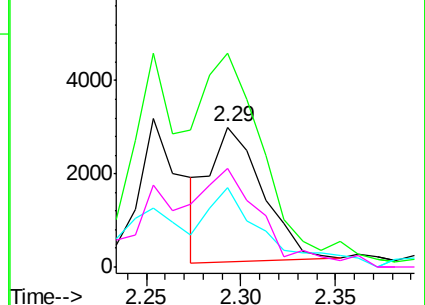


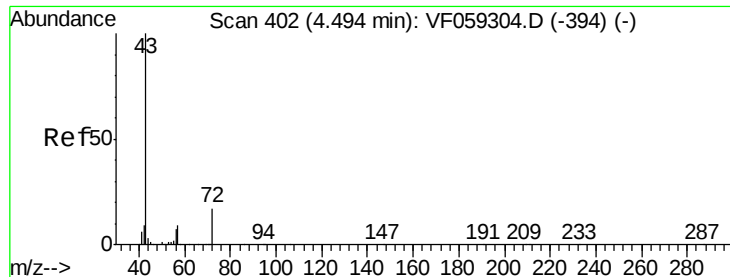
Abundance Ion 84.00 (83.70 to 84.70): VF0

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: Below Cal

RT: 4.49 min Scan# 402

Delta R.T. -0.00 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampled :

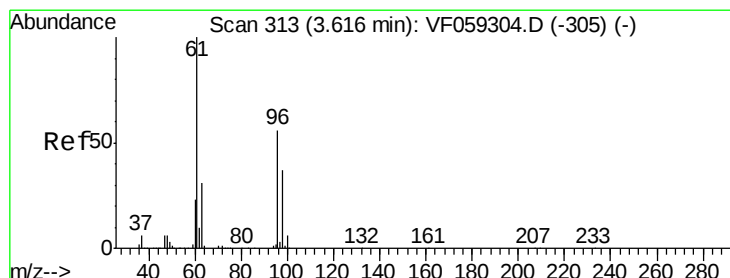
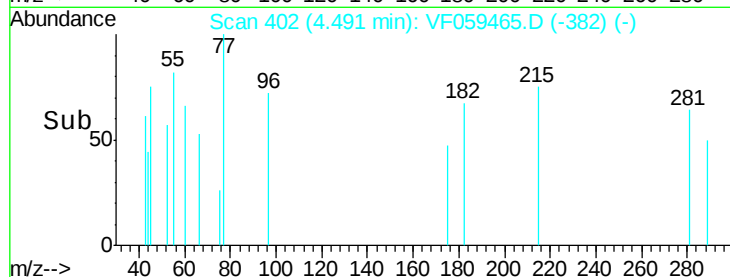
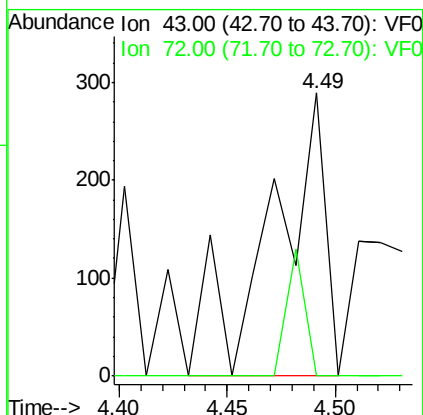
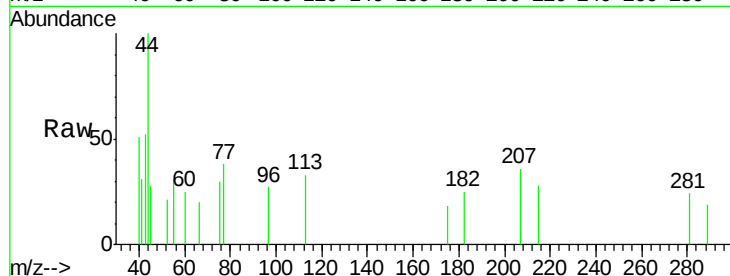
S-11(7.5-8)

Tot Ion: 43 Resp: 503

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#27

cis-1,2-Dichloroethene

Concen: 66.962 ug/l

RT: 3.59 min Scan# 311

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

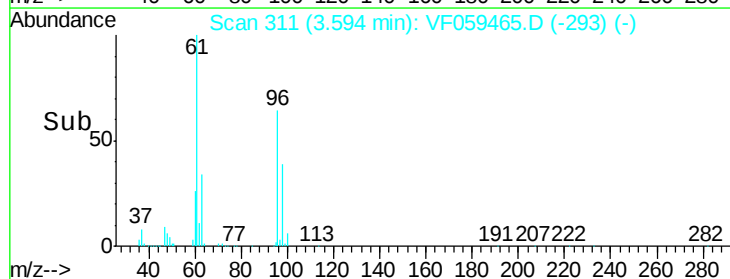
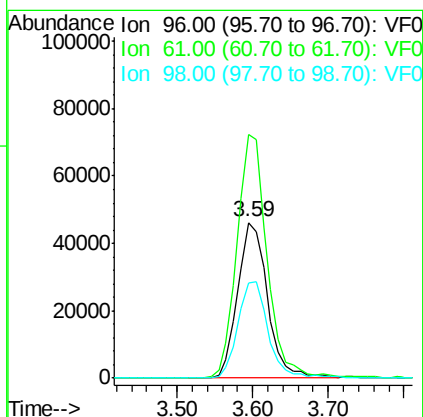
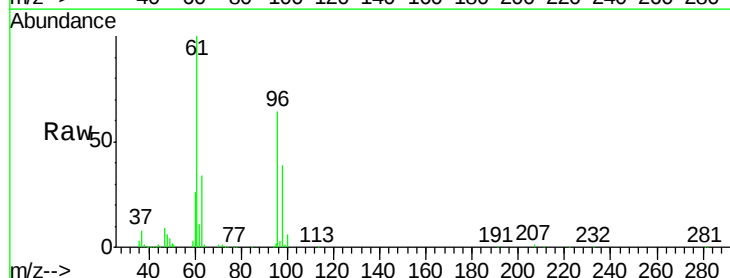
Tgt Ion: 96 Resp: 126415

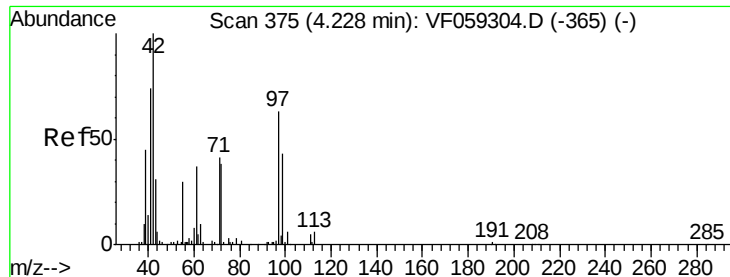
Ion Ratio Lower Upper

96 100

61 156.8 0.0 355.4

98 61.7 0.0 131.0

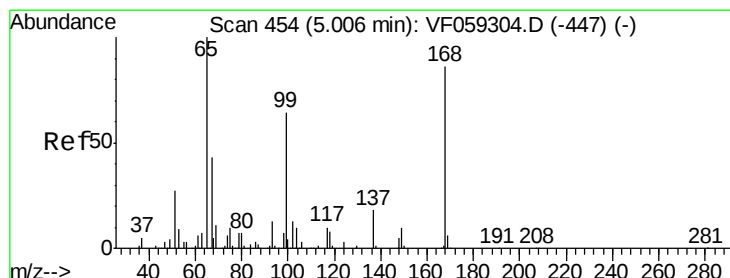
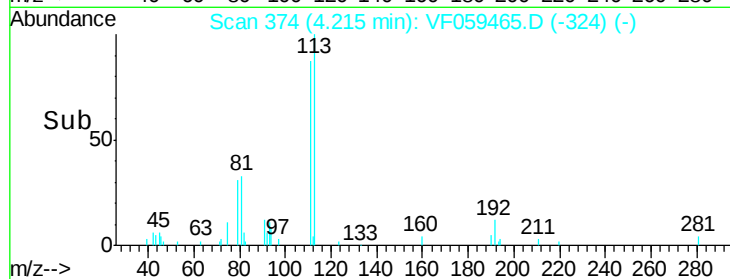
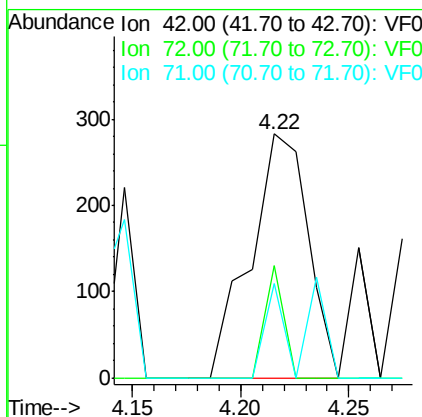
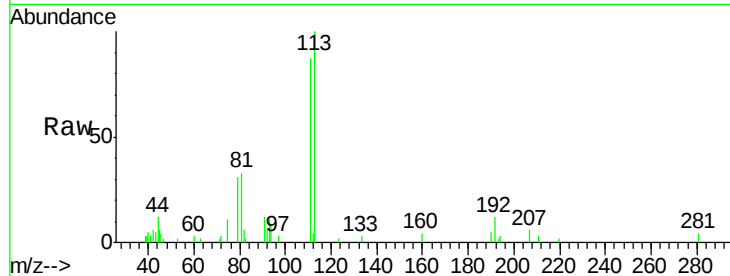




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.22 min Scan# 374
Delta R.T. -0.01 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

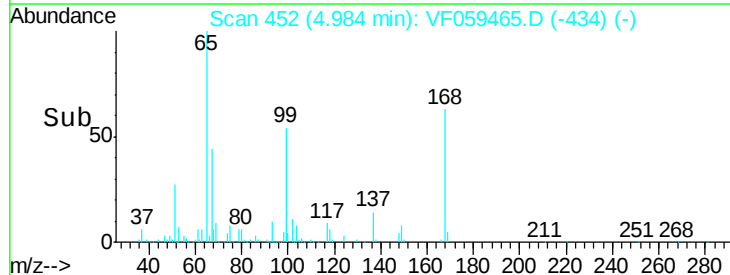
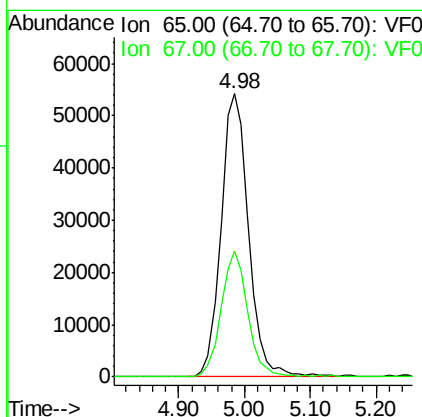
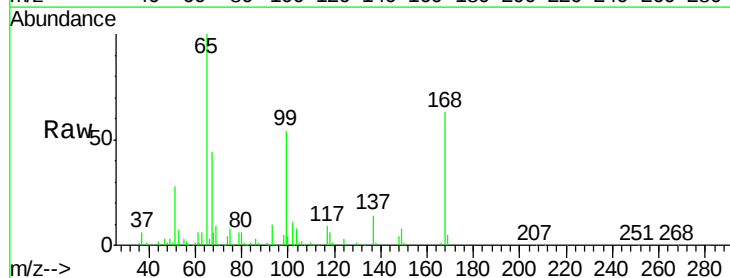
Instrument :
MSVOA_F
ClientSampled :
S-11(7.5-8)

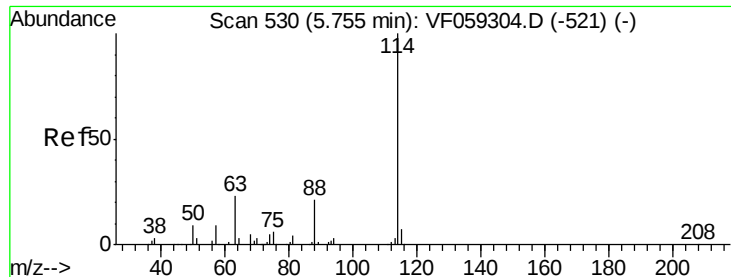
Tot Ion: 42 Resp: 525
Ion Ratio Lower Upper
42 100
72 14.7 30.5 45.7#
71 25.5 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 61.678 ug/l
RT: 4.98 min Scan# 452
Delta R.T. -0.02 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

Tgt Ion: 65 Resp: 157551
Ion Ratio Lower Upper
65 100
67 44.4 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampleId :

S-11(7.5-8)

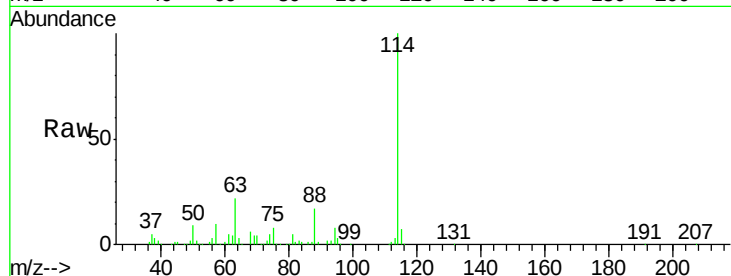
Tot Ion:114 Resp: 303439

Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.8

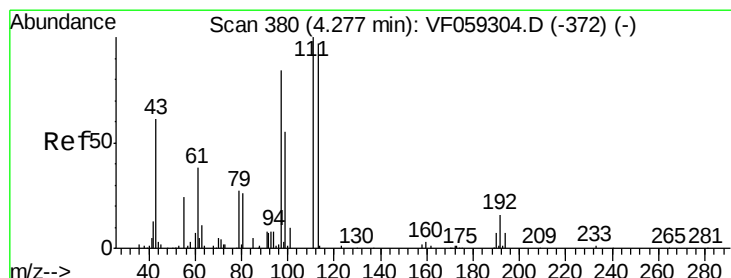
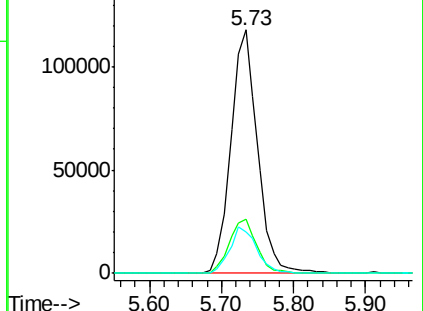
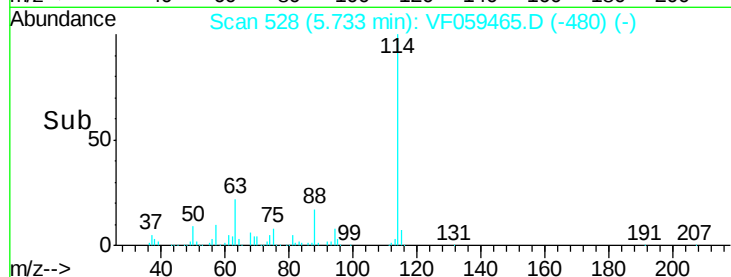
88 16.9 0.0 41.2



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: 58.069 ug/l

RT: 4.25 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

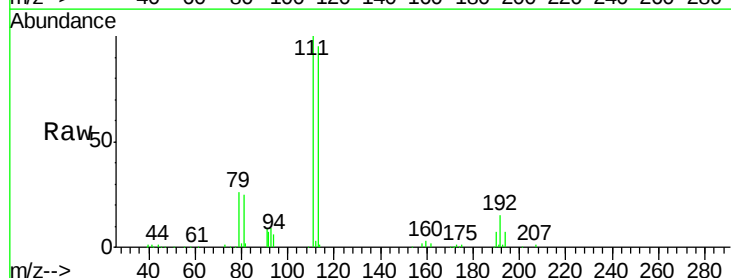
Tgt Ion:113 Resp: 128747

Ion Ratio Lower Upper

113 100

111 104.2 82.1 123.1

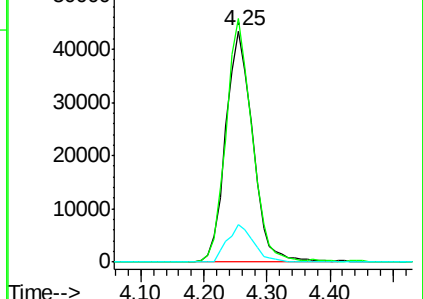
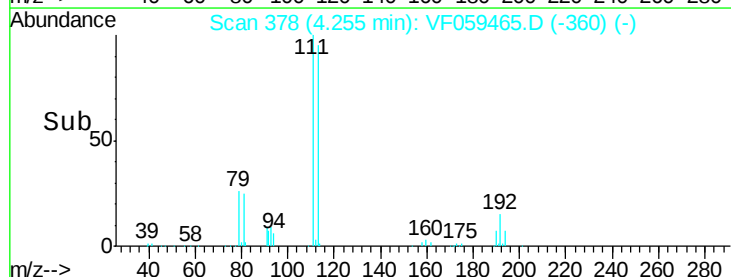
192 16.2 13.0 19.6

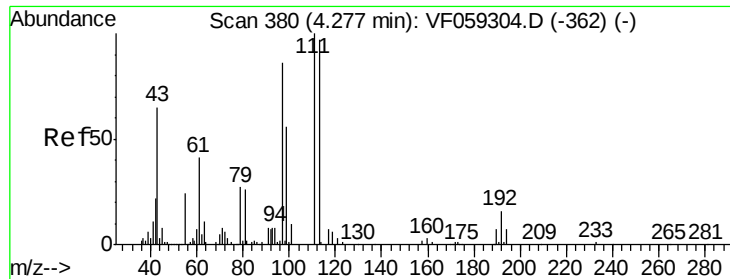


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

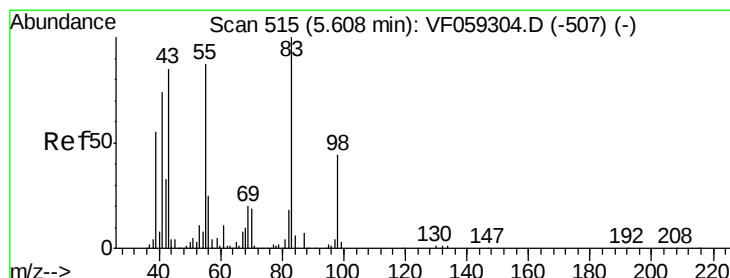
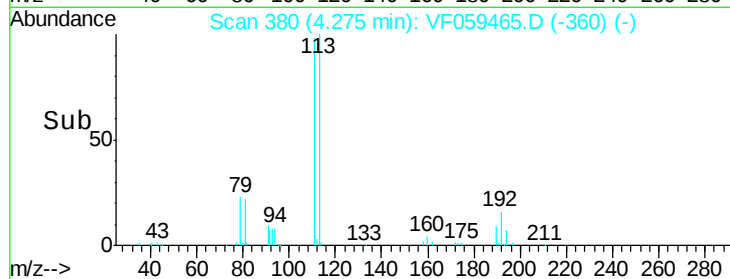
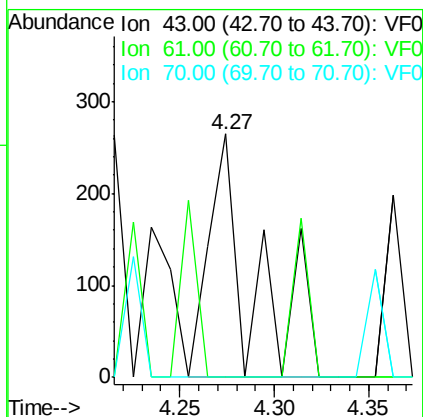
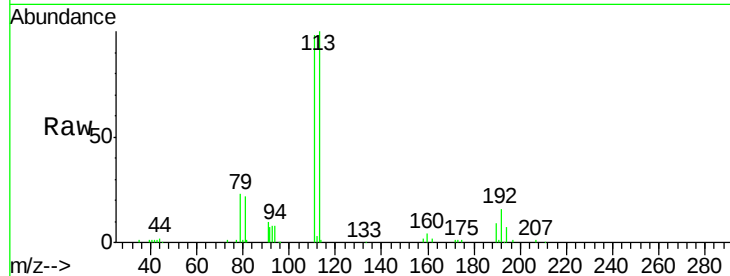




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

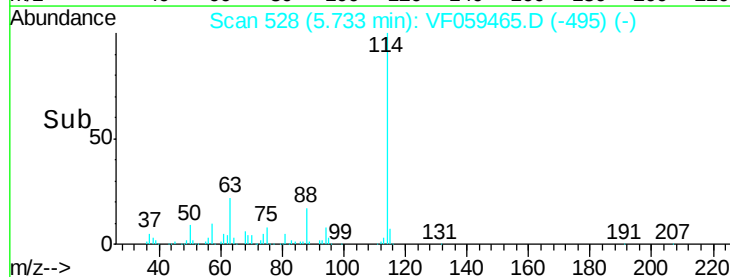
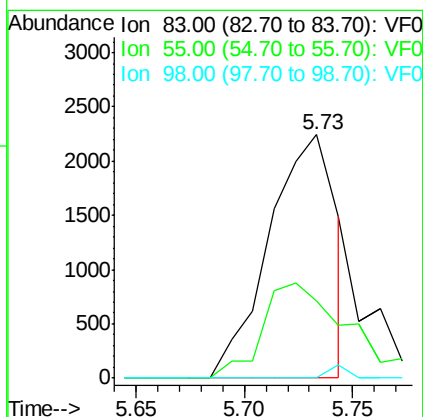
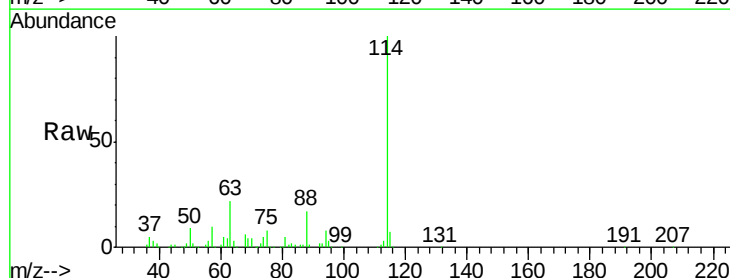
Instrument :
MSVOA_F
ClientSampleId :
S-11(7.5-8)

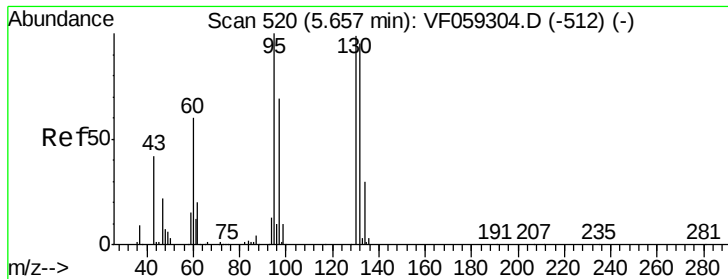
Tot Ion: 43 Resp: 431
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 2.083 ug/l
RT: 5.73 min Scan# 528
Delta R.T. 0.13 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

Tgt Ion: 83 Resp: 4892
Ion Ratio Lower Upper
83 100
55 31.9 69.2 103.8#
98 0.0 35.0 52.6#





#44

Trichloroethene

Concen: 4.469 ug/l

RT: 5.63 min Scan# 518

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampleId :

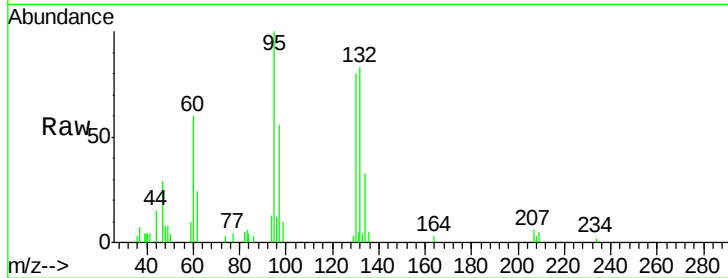
S-11(7.5-8)

Tot Ion:130 Resp: 9010

Ion Ratio Lower Upper

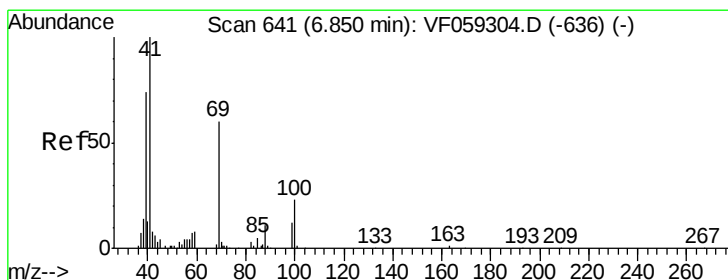
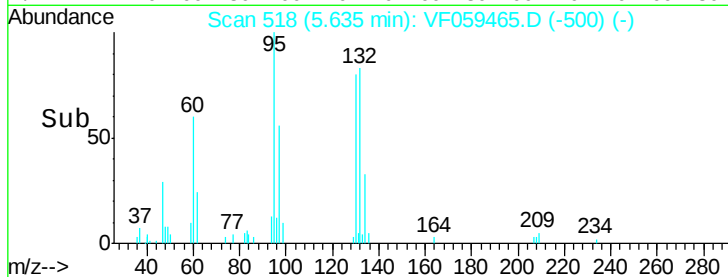
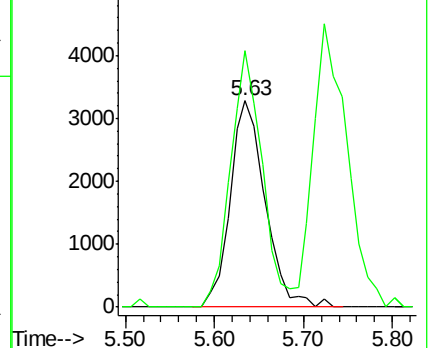
130 100

95 124.6 0.0 202.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.26 min Scan# 683

Delta R.T. 0.41 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

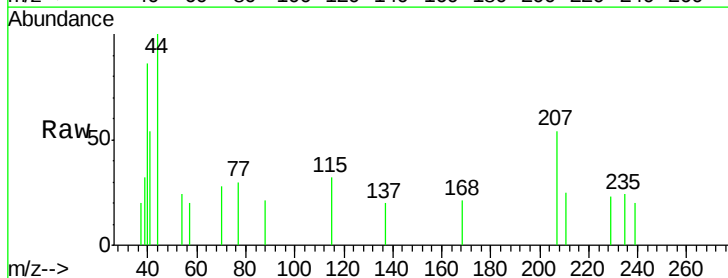
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

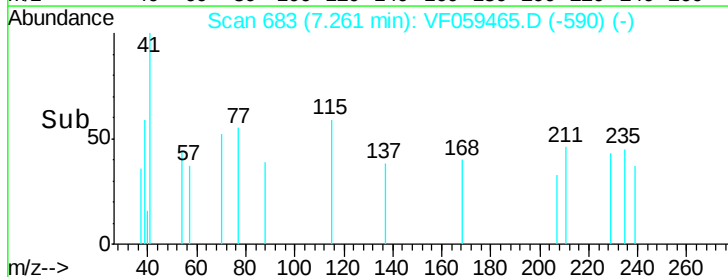
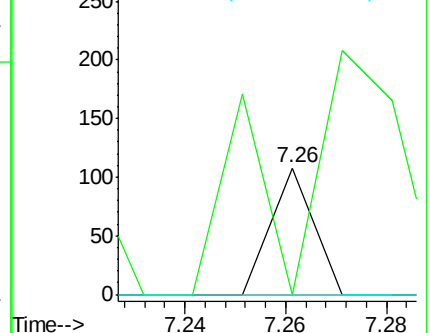
58 0.0 46.6 69.8#

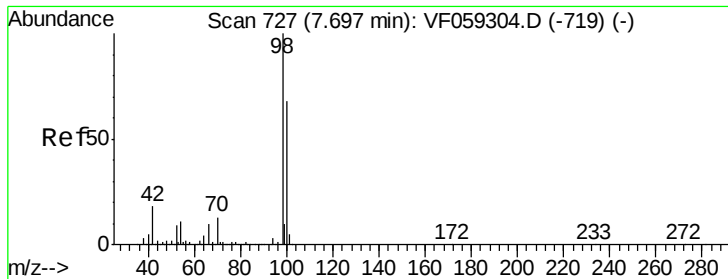


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 47.955 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059465.D

Acq: 6 Jul 2018 22:25

Instrument :

MSVOA_F

ClientSampleId :

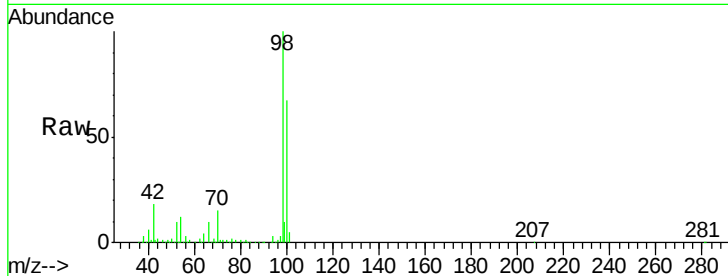
S-11(7.5-8)

Tot Ion: 98 Resp: 263243

Ion Ratio Lower Upper

98 100

100 66.6 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

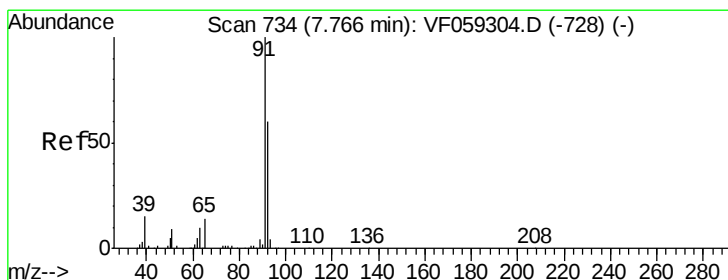
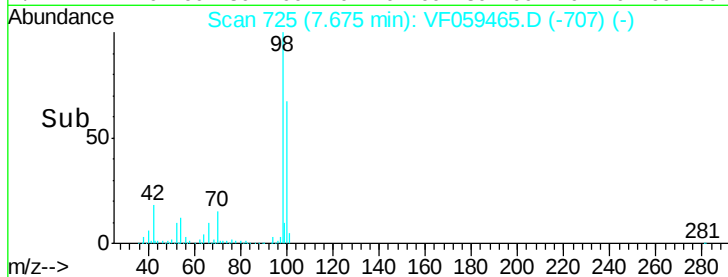
7.68

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 6.108 ug/l

RT: 7.75 min Scan# 733

Delta R.T. -0.01 min

Lab File: VF059465.D

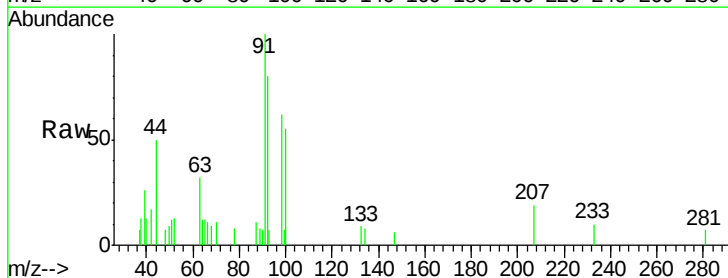
Acq: 6 Jul 2018 22:25

Tgt Ion: 63 Resp: 969

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.75

500

400

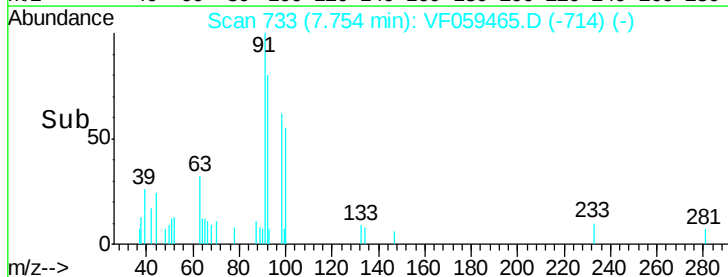
300

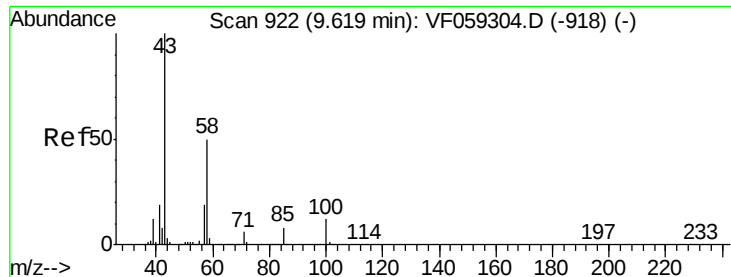
200

100

0

Time-->

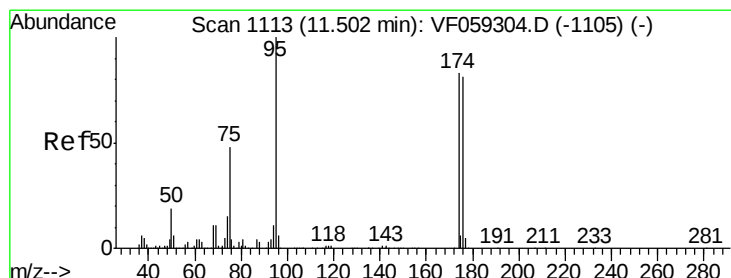
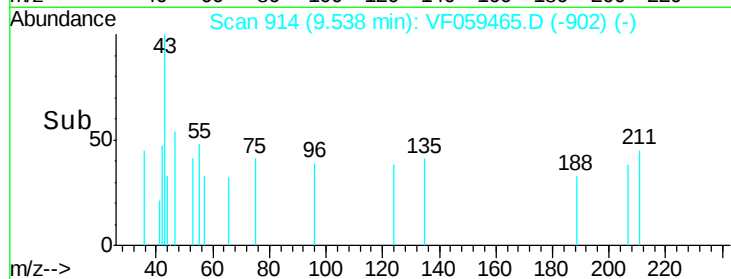
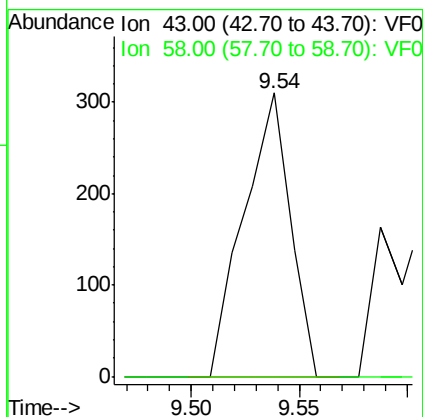
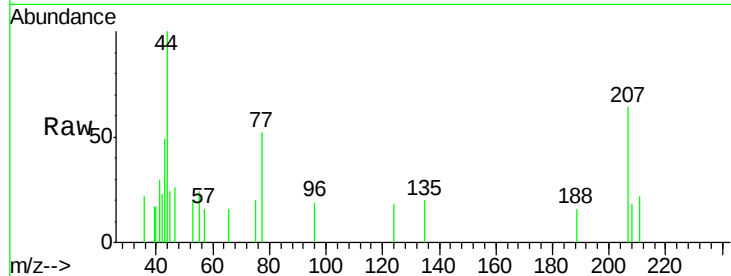




#59
2-Hexanone
Concen: Below Cal
RT: 9.54 min Scan# 914
Delta R.T. -0.08 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

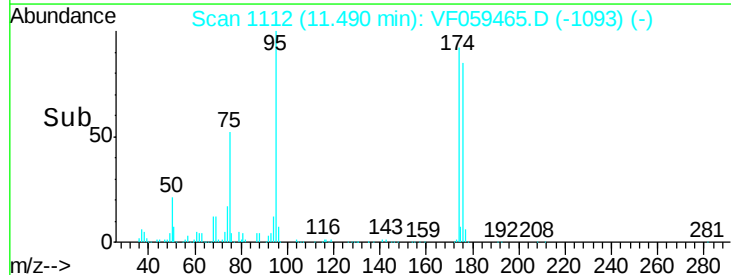
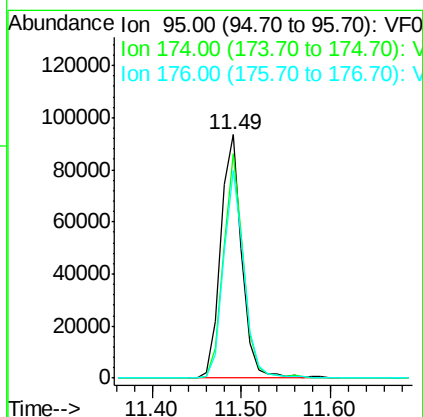
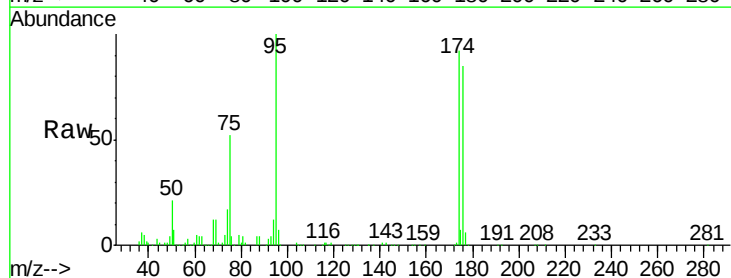
Instrument :
MSVOA_F
ClientSampleId :
S-11(7.5-8)

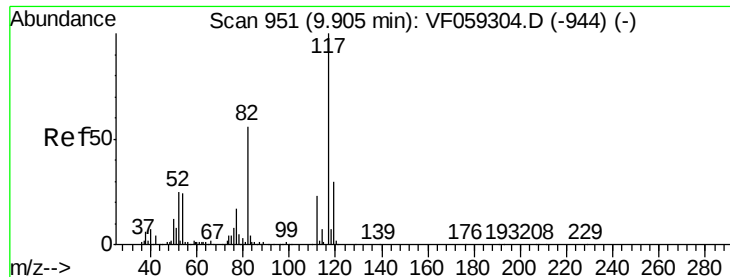
Tot Ion: 43 Resp: 468
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 50.627 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

Tgt Ion: 95 Resp: 156767
Ion Ratio Lower Upper
95 100
174 92.2 0.0 165.2
176 85.4 0.0 161.0

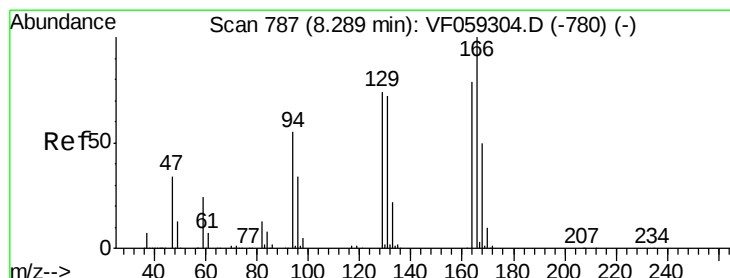
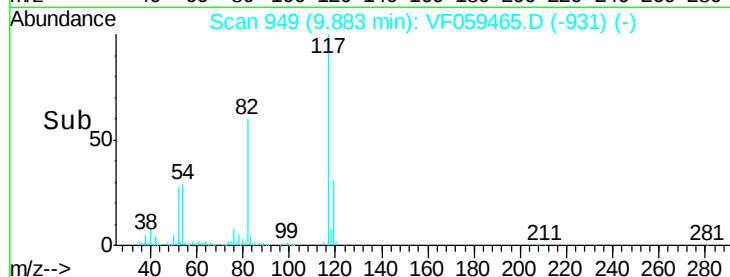
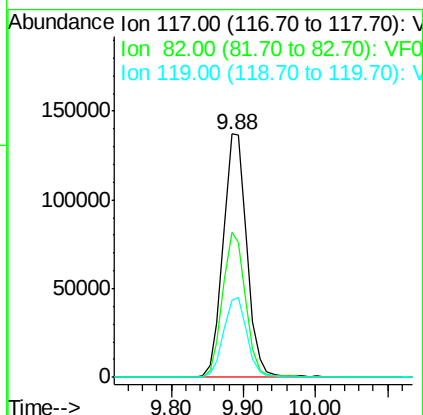
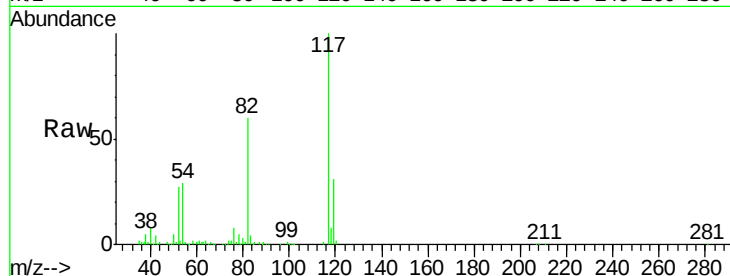




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

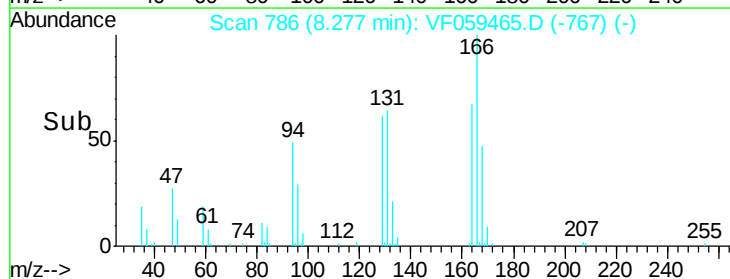
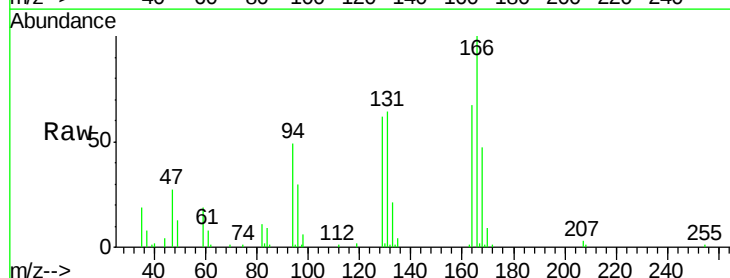
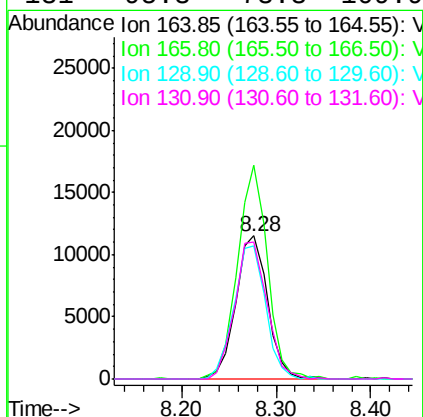
Instrument :
MSVOA_F
ClientSampleId :
S-11(7.5-8)

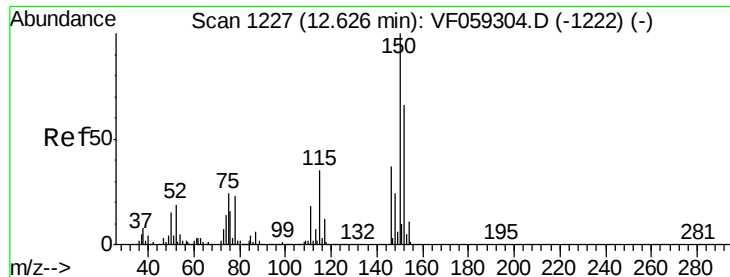
Tot Ion	Ratio	Lower	Upper
117	100		
82	59.5	44.6	66.8
119	31.5	24.1	36.1



#64
Tetrachloroethene
Concen: 13.199 ug/l
RT: 8.28 min Scan# 786
Delta R.T. -0.01 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	149.1	101.1	151.7
129	92.9	75.0	112.4
131	95.3	73.3	109.9



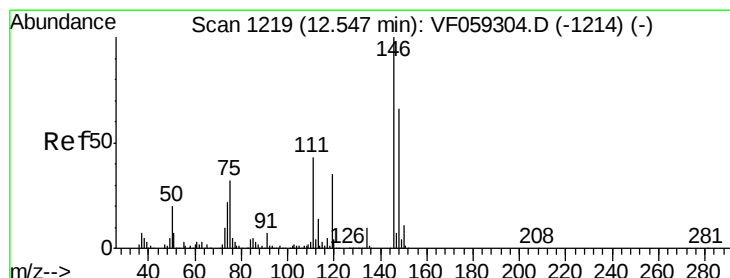
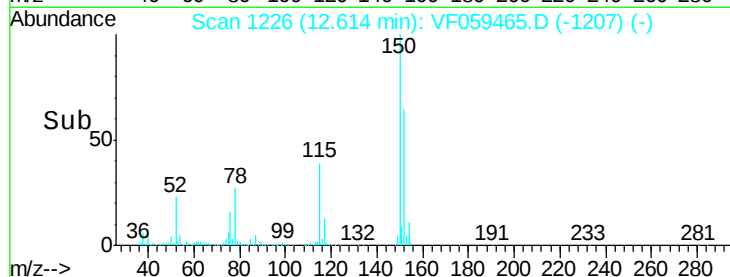
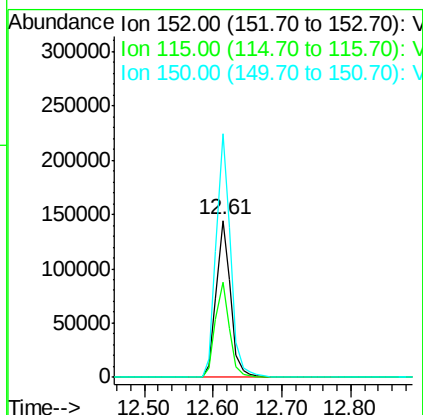
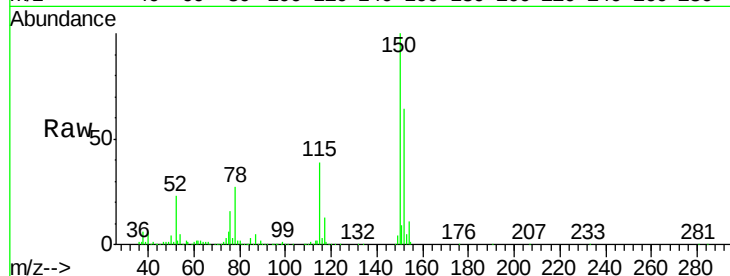


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

Instrument :
MSVOA_F
ClientSampleId :
S-11(7.5-8)

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.4	27.1	81.3
150	155.2	0.0	305.2



#87

1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.54 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VF059465.D
Acq: 6 Jul 2018 22:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.1	21.4	64.2
148	0.0	32.8	98.4

