

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059342.D
 Acq On : 27 Jun 2018 16:41
 Operator : VA/AP
 Sample : J3677-02
 Misc : 5.06g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 28 01:43:38 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	5.03	168	193742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	314849	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	304632	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	179429	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	110953	44.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.66%	
35) Dibromofluoromethane	4.29	113	97560	42.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.82%	
50) Toluene-d8	7.70	98	220741	38.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.52%	
62) 4-Bromofluorobenzene	11.50	95	123882	38.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.12%	

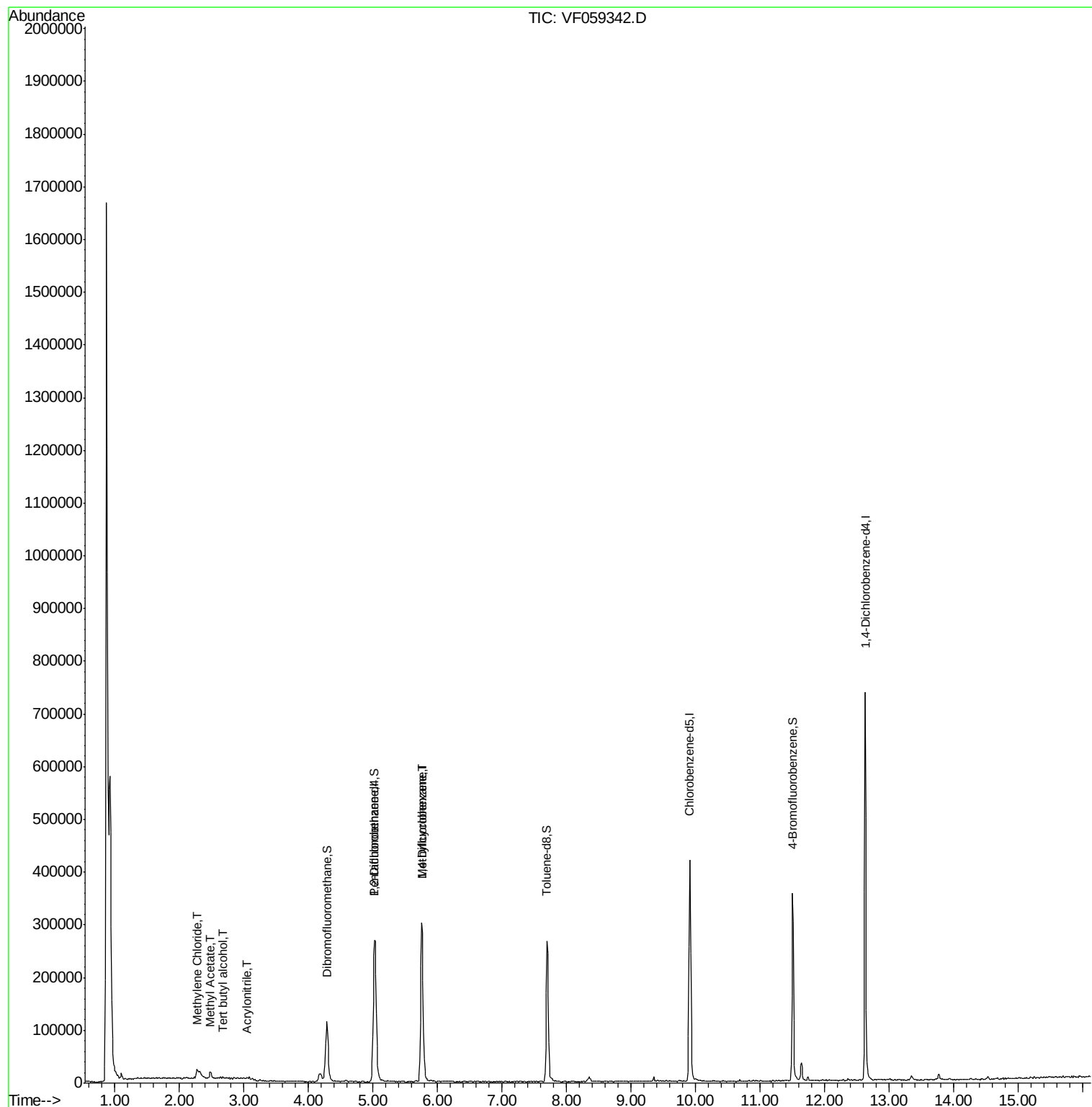
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	166	Below Cal	#	4
11) Tert butyl alcohol	2.67	59	282	1.692	ug/l #	1
13) Acrolein	2.14	56	238	Below Cal		84
15) Acrylonitrile	3.06	53	325	1.108	ug/l #	1
16) Acetone	2.32	43	5211	Below Cal	#	79
18) Methyl Acetate	2.48	43	5389	3.692	ug/l #	78
20) Methylene Chloride	2.27	84	12147	1.483	ug/l #	78
25) 2-Butanone	4.50	43	432	Below Cal	#	59
28) Bromochloromethane	3.85	49	77	Below Cal	#	6
29) Tetrahydrofuran	4.23	42	131	Below Cal	#	1
37) Ethyl Acetate	4.29	43	216	Below Cal	#	77
39) Methylcyclohexane	5.75	83	4442	1.822	ug/l #	34
49) 1,4-Dioxane	6.93	88	60	Below Cal	#	20
59) 2-Hexanone	9.63	43	672	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.56	146	321	Below Cal	#	46

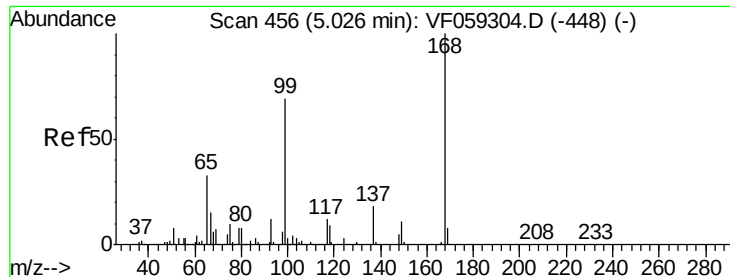
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

Instrument :

MSVOA_F

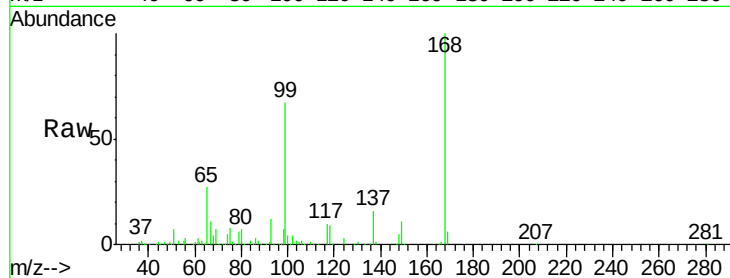
ClientSampleId :

Tot Ion:168 Resp: 193742

Ion Ratio Lower Upper

168 100

99 67.0 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

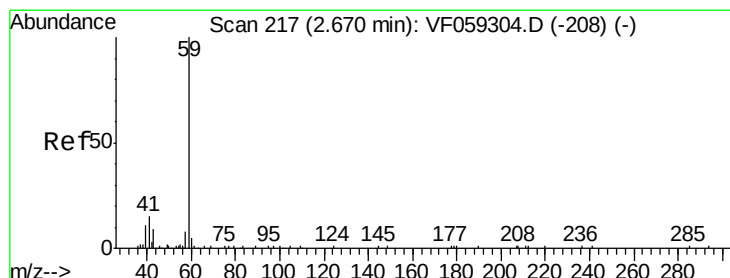
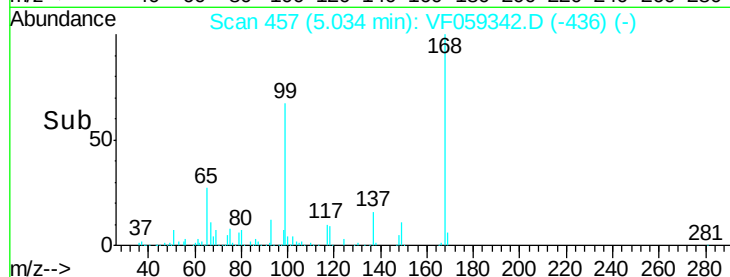
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 1.692 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.00 min

Lab File: VF059342.D

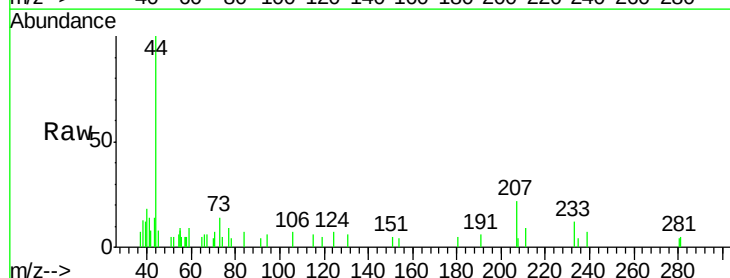
Acq: 27 Jun 2018 16:41

Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

59 100

57 111.5 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

300

250

200

150

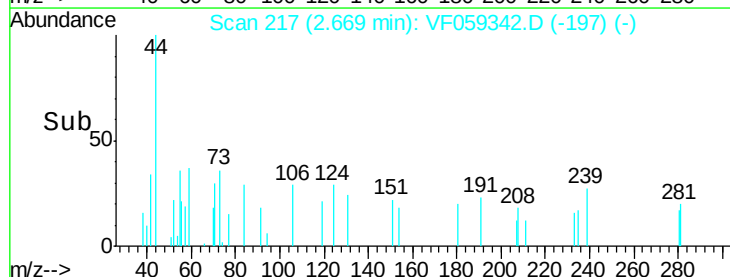
100

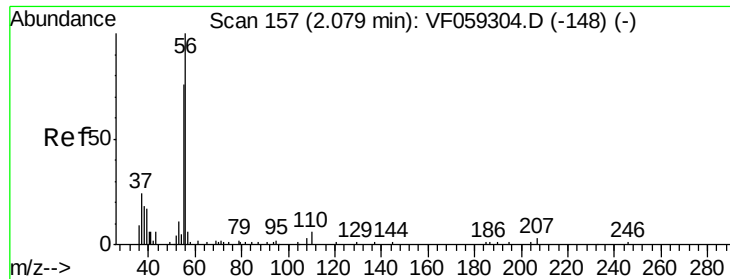
50

0

2.65 2.70

Time-->

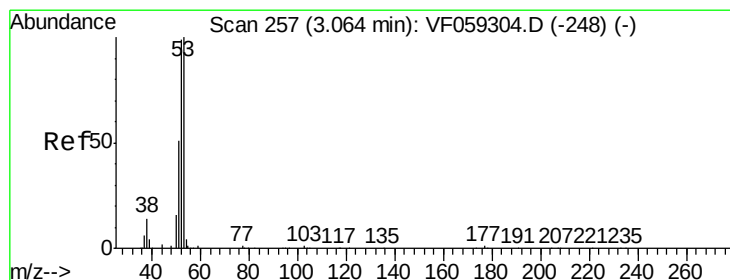
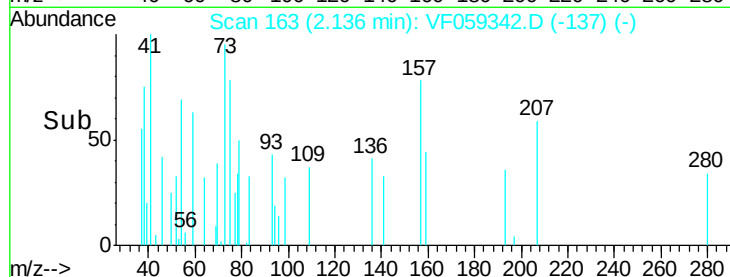
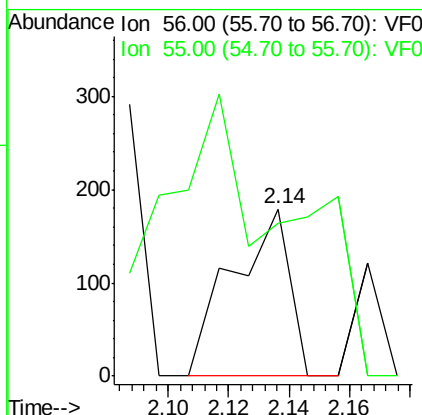
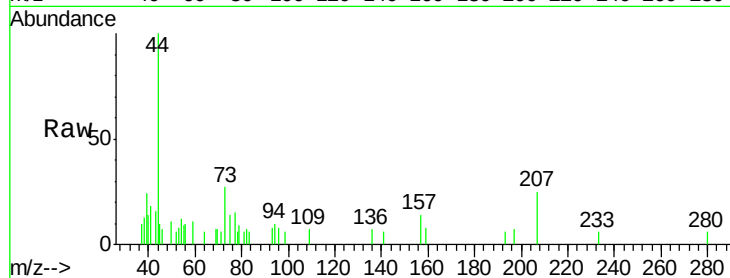




#13
Acrolein
Concen: Below Cal
RT: 2.14 min Scan# 163
Delta R.T. 0.06 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

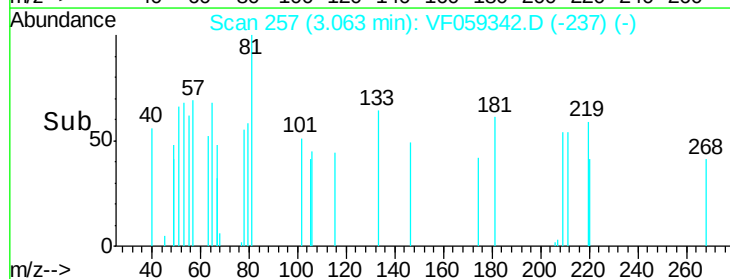
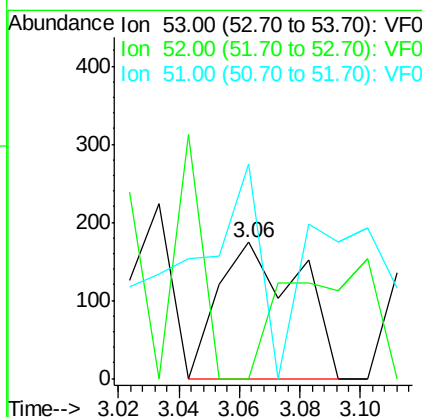
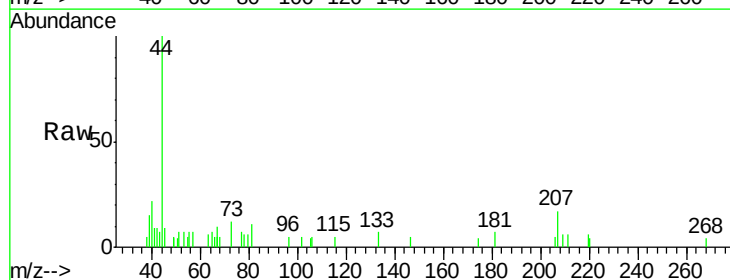
Instrument :
MSVOA_F
ClientSampled :

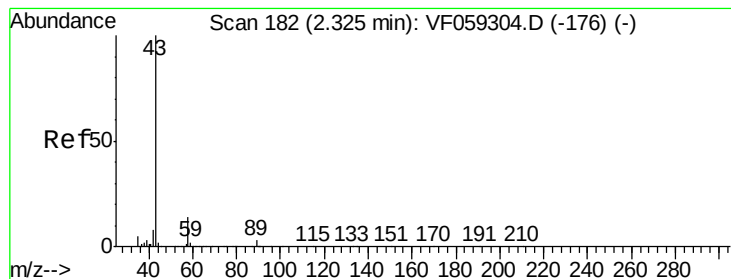
Tot Ion: 56 Resp: 238
Ion Ratio Lower Upper
56 100
55 91.6 62.4 93.6



#15
Acrylonitrile
Concen: 1.108 ug/l
RT: 3.06 min Scan# 257
Delta R.T. -0.00 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

Tgt Ion: 53 Resp: 325
Ion Ratio Lower Upper
53 100
52 0.0 79.2 118.8#
51 157.5 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

Instrument :

MSVOA_F

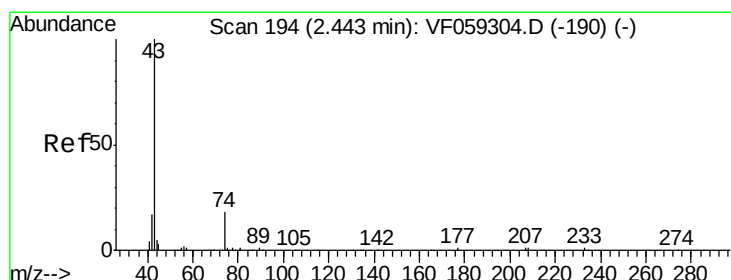
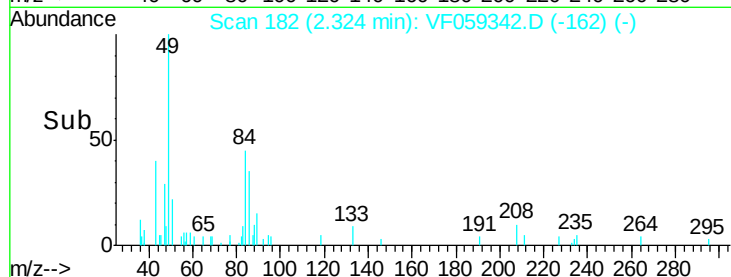
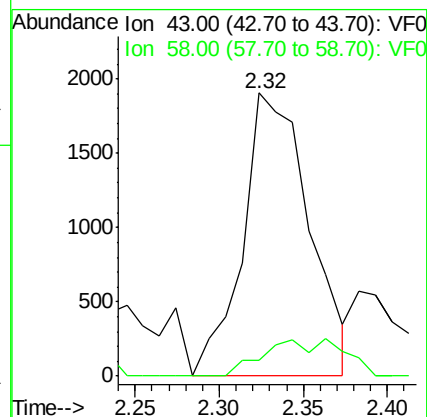
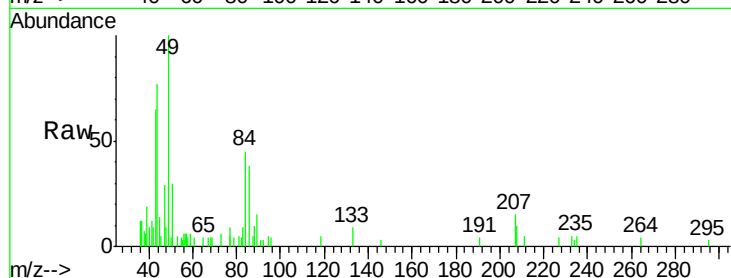
ClientSampleId :

Tot Ion: 43 Resp: 5211

Ion Ratio Lower Upper

43 100

58 5.5 11.4 17.0#



#18

Methyl Acetate

Concen: 3.692 ug/l

RT: 2.48 min Scan# 198

Delta R.T. 0.04 min

Lab File: VF059342.D

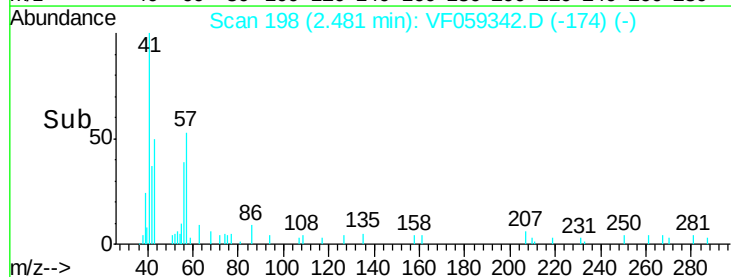
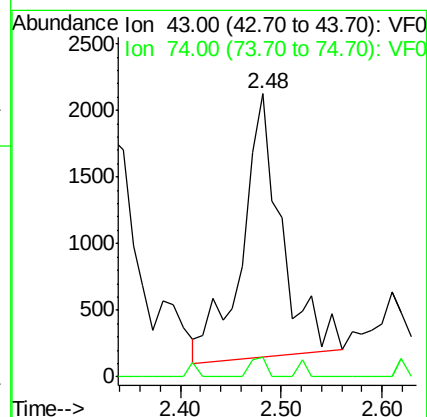
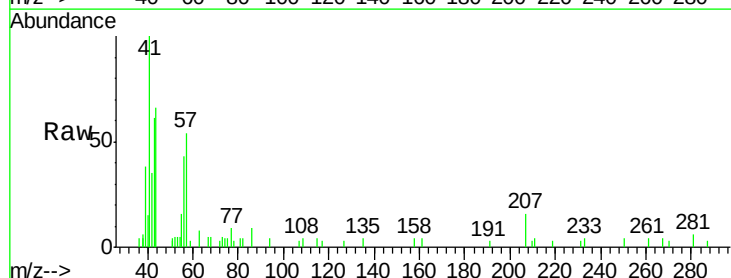
Acq: 27 Jun 2018 16:41

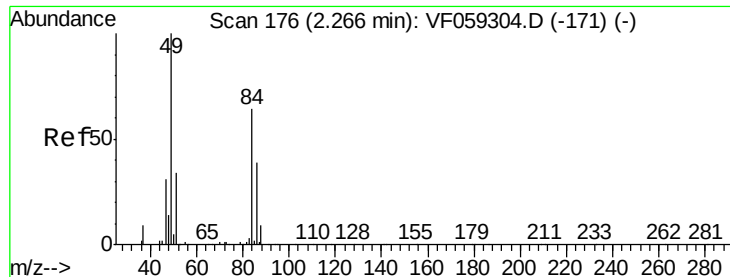
Tgt Ion: 43 Resp: 5389

Ion Ratio Lower Upper

43 100

74 7.2 13.3 19.9#

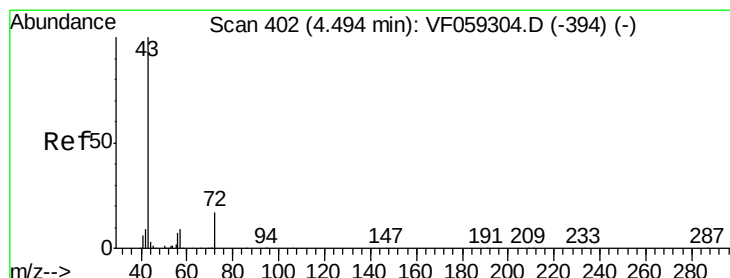
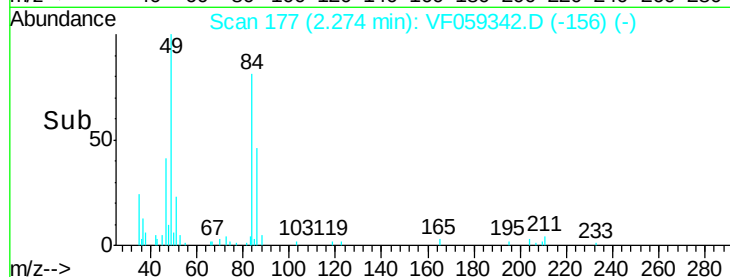
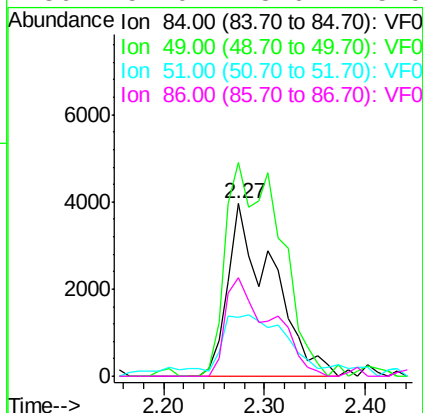
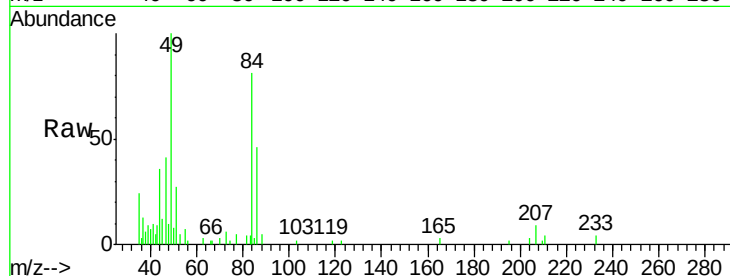




#20
Methylene Chloride
Concen: 1.483 ug/l
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

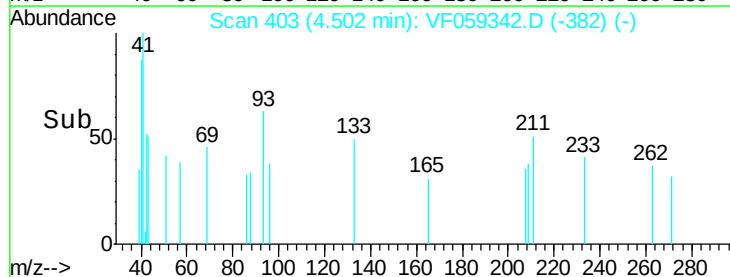
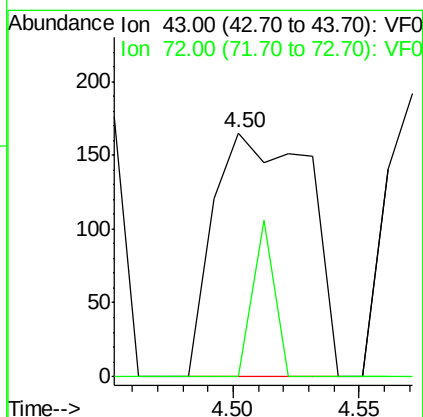
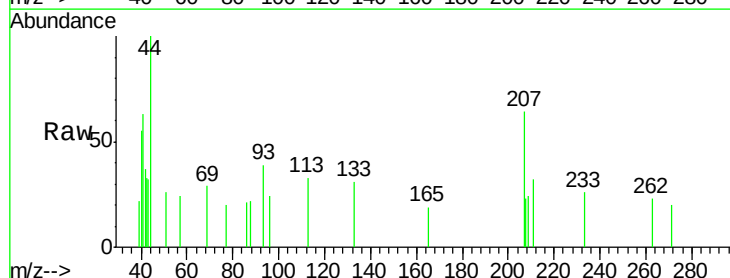
Instrument :
MSVOA_F
ClientSampled :

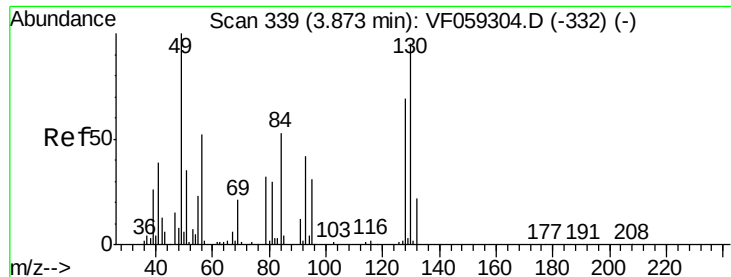
Tot Ion	Ratio	Lower	Upper
84	100		
49	123.7	126.5	189.7#
51	33.9	42.9	64.3#
86	57.0	48.6	73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.50 min Scan# 403
Delta R.T. 0.01 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.4	21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.85 min Scan# 337

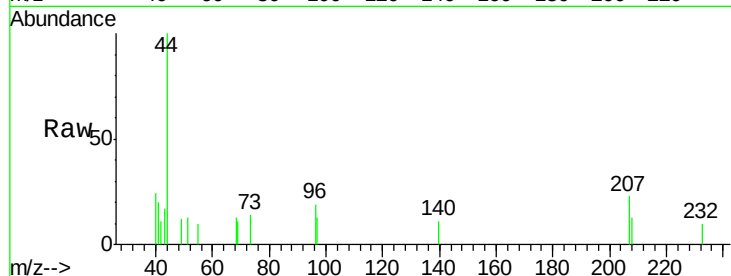
Delta R.T. -0.02 min

Lab File: VF059342.D

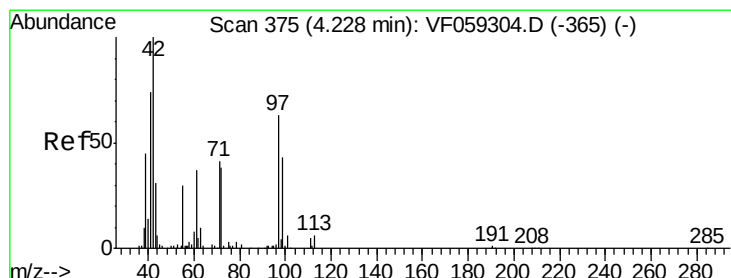
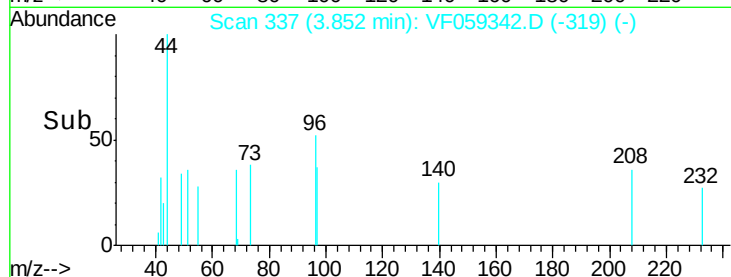
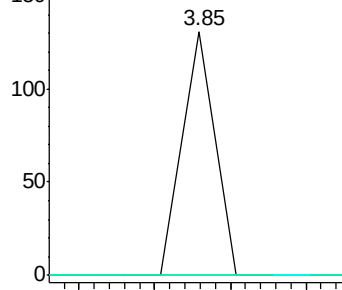
Acq: 27 Jun 2018 16:41

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 49 Resp: 77
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#



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



#29

Tetrahydrofuran

Concen: Below Cal

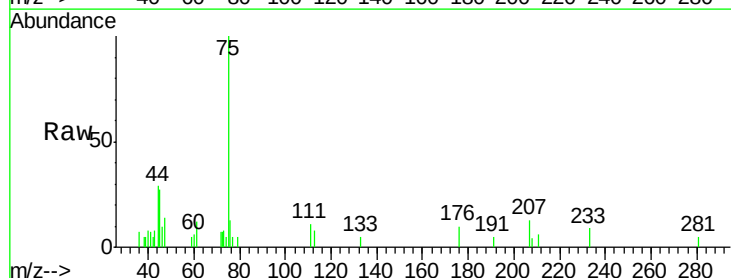
RT: 4.23 min Scan# 375

Delta R.T. -0.00 min

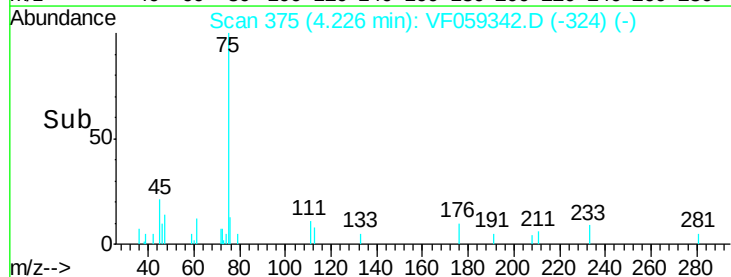
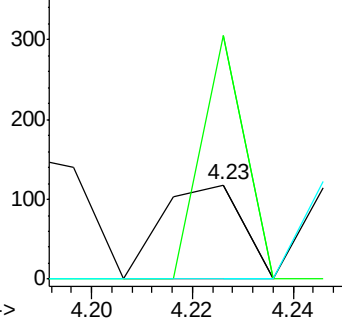
Lab File: VF059342.D

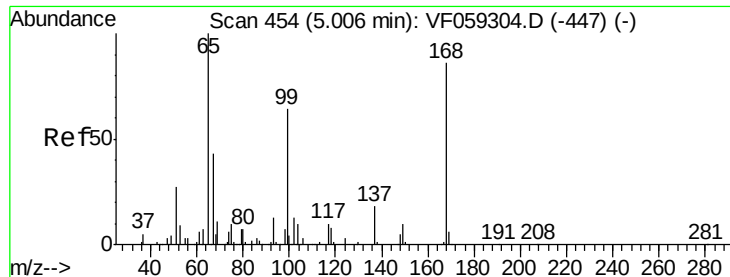
Acq: 27 Jun 2018 16:41

Tgt Ion: 42 Resp: 131
Ion Ratio Lower Upper
42 100
72 137.4 30.5 45.7#
71 0.0 32.5 48.7#



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: 44.326 ug/l

RT: 5.01 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

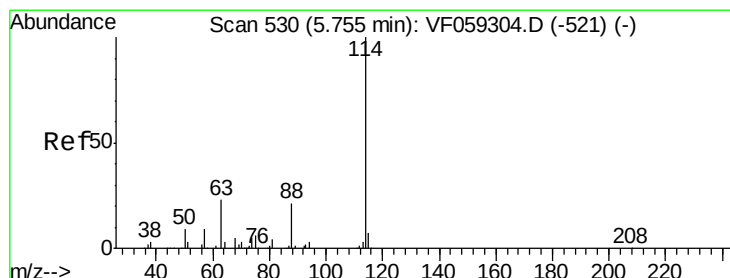
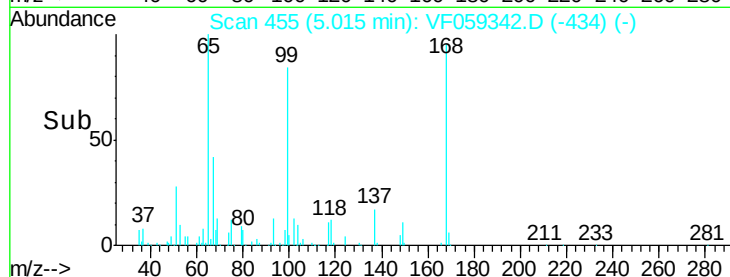
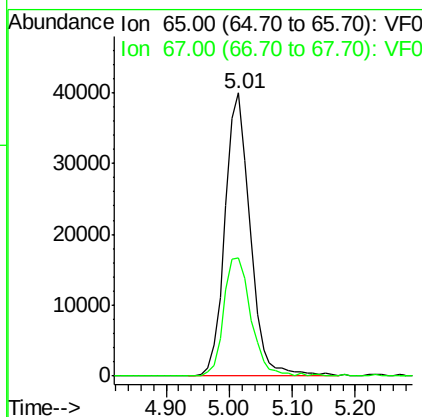
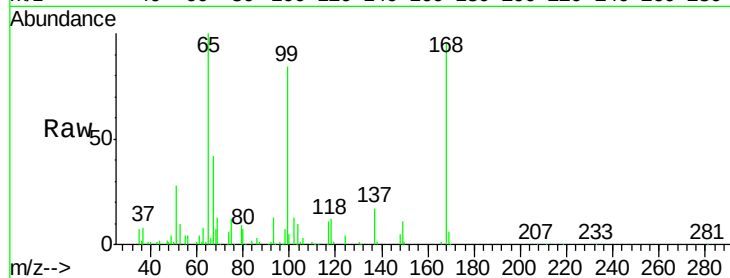
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 110953

Ion Ratio Lower Upper

65 100

67 41.6 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

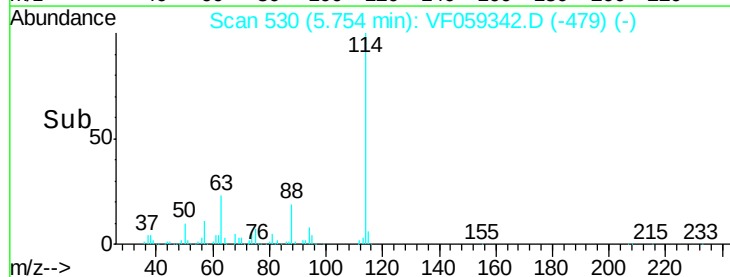
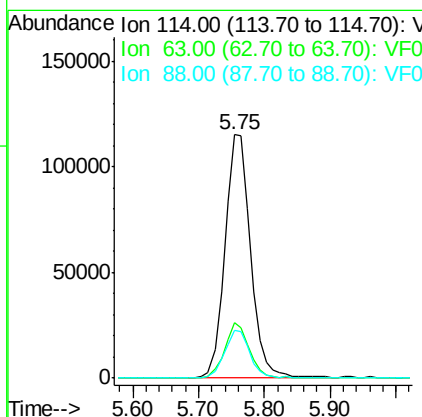
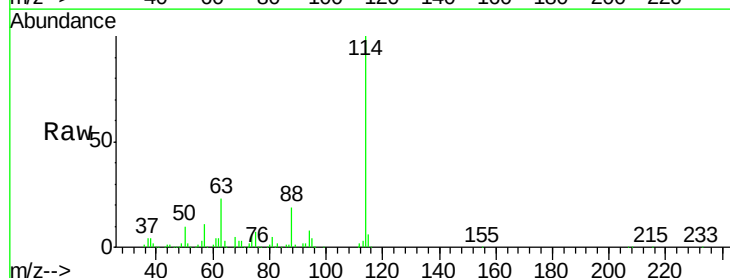
Tgt Ion: 114 Resp: 314849

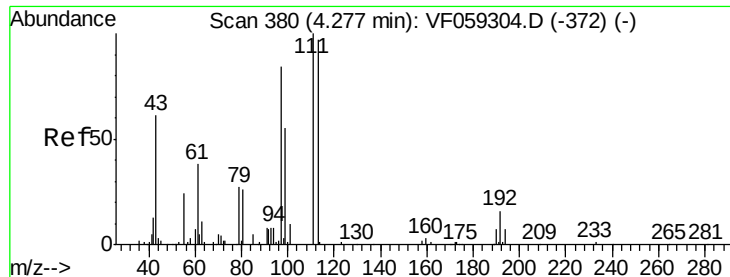
Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.8

88 19.4 0.0 41.2





#35

Dibromofluoromethane

Concen: 42.408 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

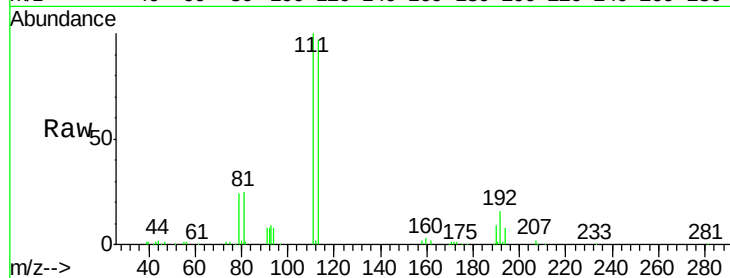
Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 97560

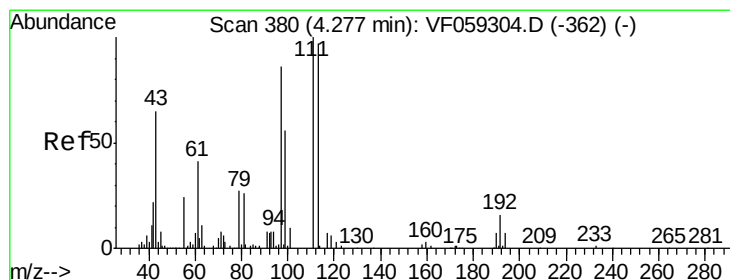
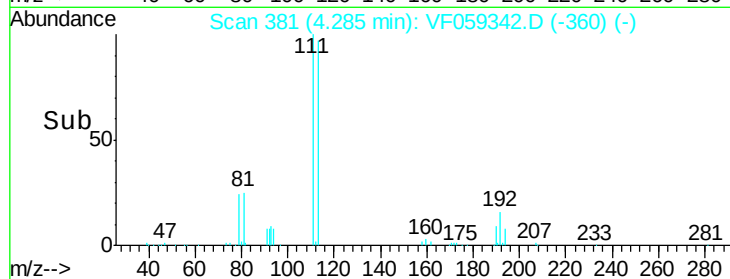
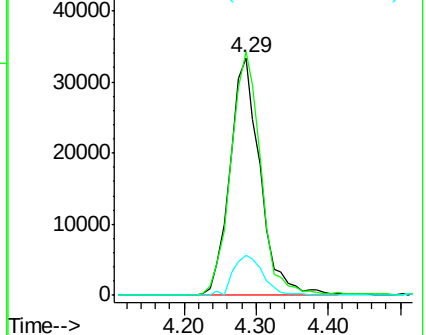
Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.1	123.1
192	16.8	13.0	19.6



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: 4.29 min Scan# 381

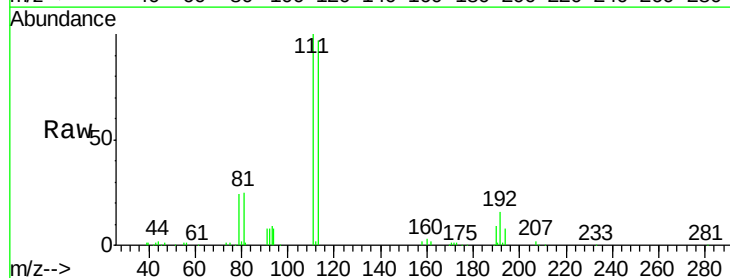
Delta R.T. 0.01 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

Tgt Ion: 43 Resp: 216

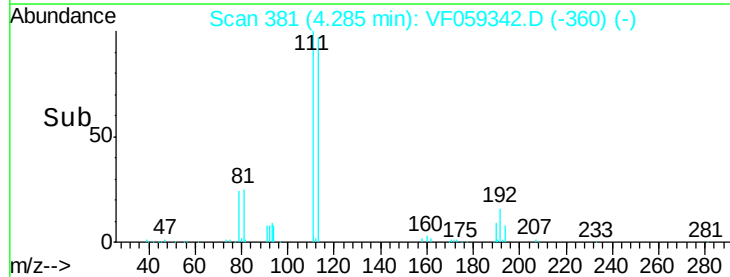
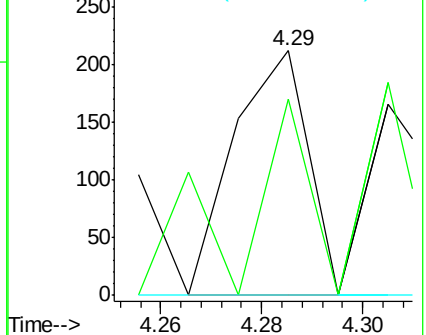
Ion	Ratio	Lower	Upper
43	100		
61	80.2	50.1	75.1#
70	0.0	6.2	9.4#

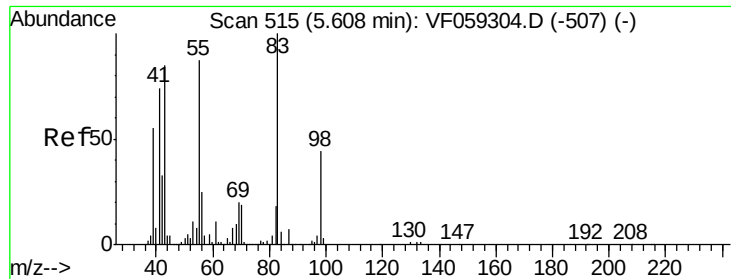


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

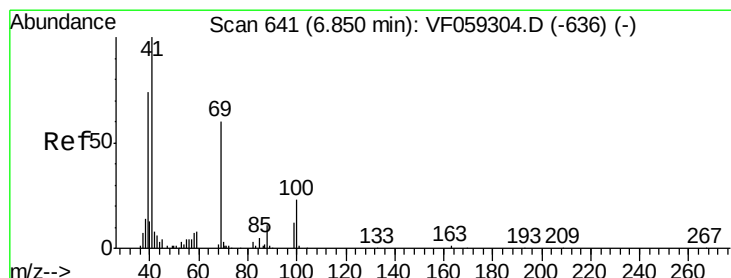
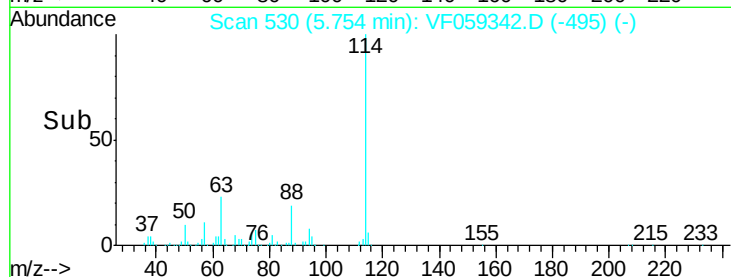
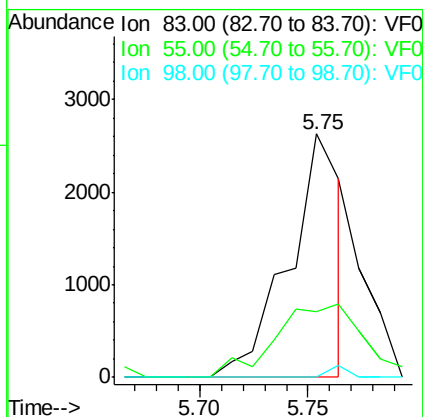
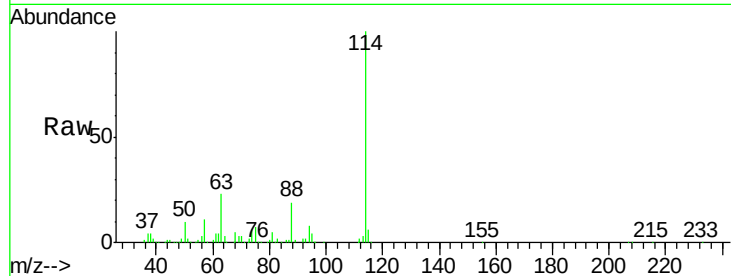




#39
Methylcyclohexane
Concen: 1.822 ug/l
RT: 5.75 min Scan# 530
Delta R.T. 0.15 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

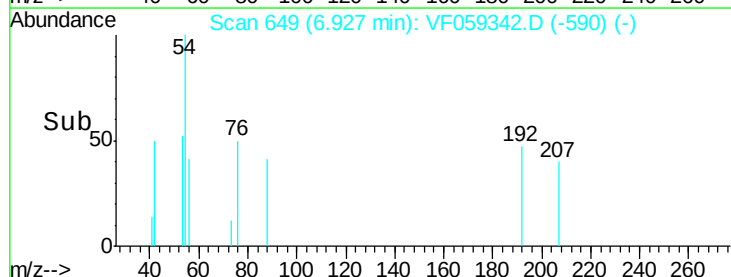
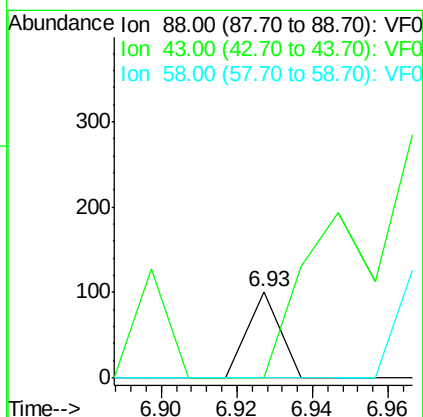
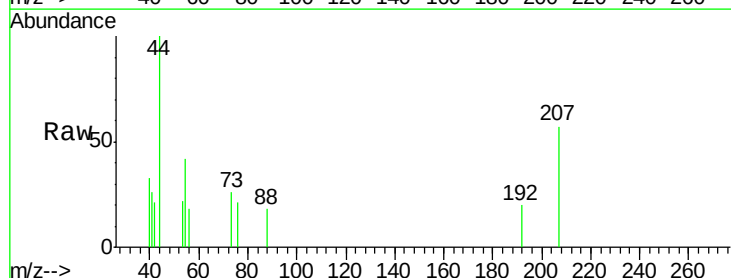
Instrument :
MSVOA_F
ClientSampleId :

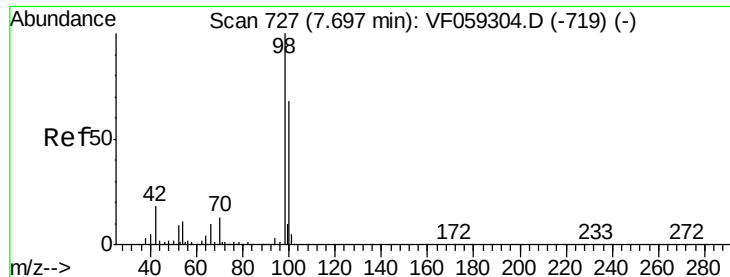
Tot Ion: 83 Resp: 4442
Ion Ratio Lower Upper
83 100
55 27.2 69.2 103.8#
98 0.0 35.0 52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.93 min Scan# 649
Delta R.T. 0.08 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#

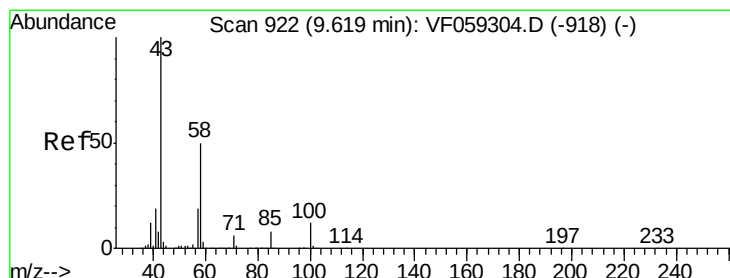
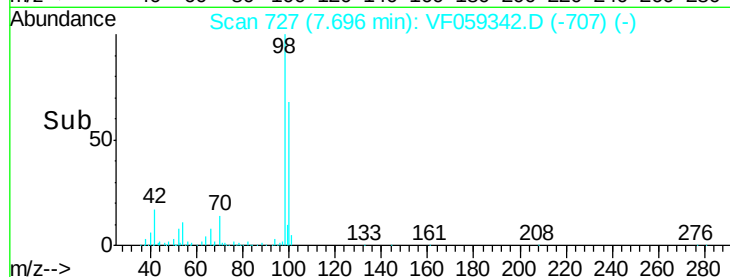
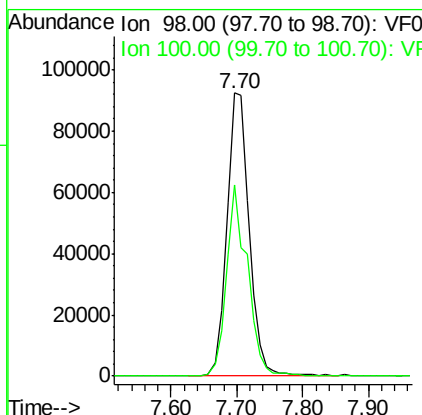
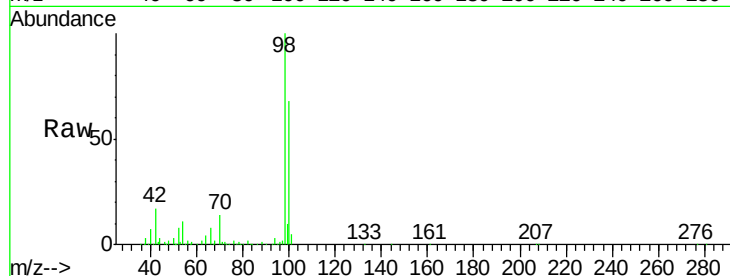




#50
Toluene-d8
Concen: 38.755 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

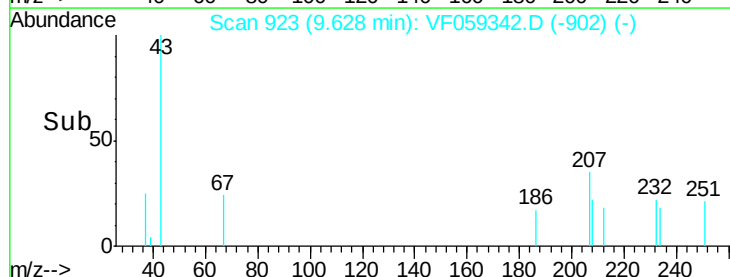
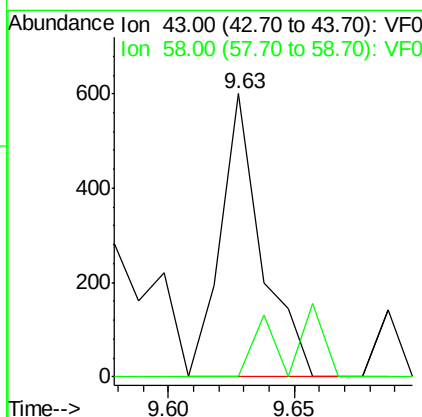
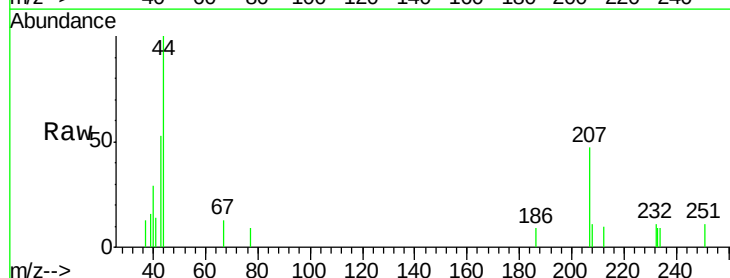
Instrument :
MSVOA_F
ClientSampleId :

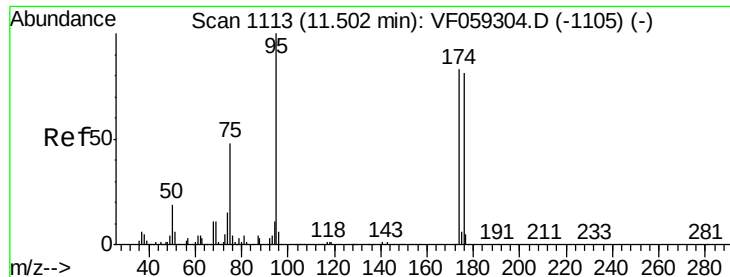
Tot Ion: 98 Resp: 220741
Ion Ratio Lower Upper
98 100
100 67.8 54.6 82.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

Tgt Ion: 43 Resp: 672
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#





#62

4-Bromofluorobenzene

Concen: 38.557 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

Instrument :

MSVOA_F

ClientSampled :

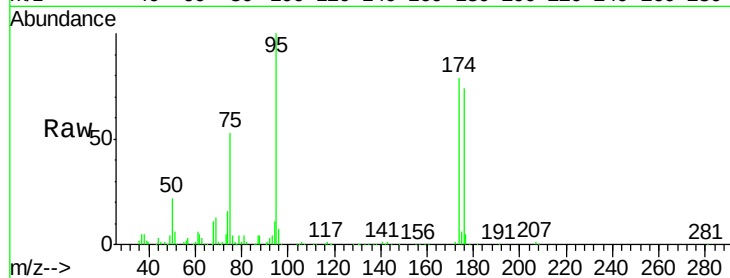
Tot Ion: 95 Resp: 123882

Ion Ratio Lower Upper

95 100

174 78.8 0.0 165.2

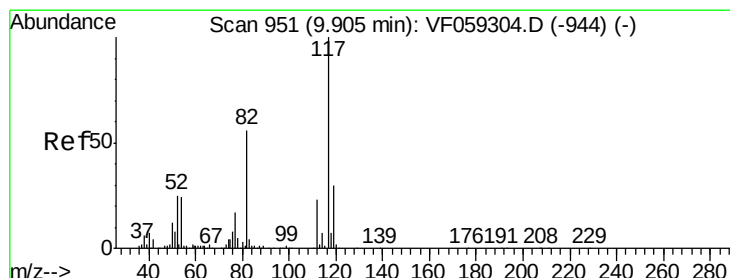
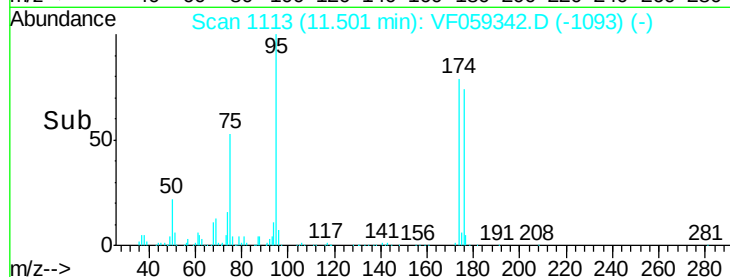
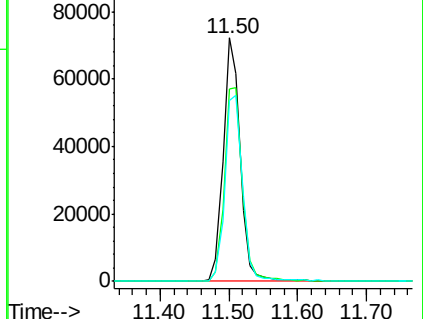
176 74.2 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059342.D

Acq: 27 Jun 2018 16:41

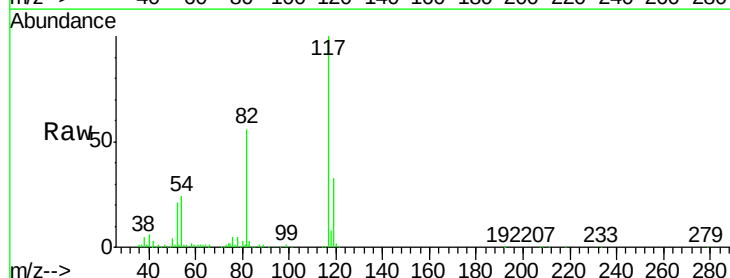
Tgt Ion: 117 Resp: 304632

Ion Ratio Lower Upper

117 100

82 55.6 44.6 66.8

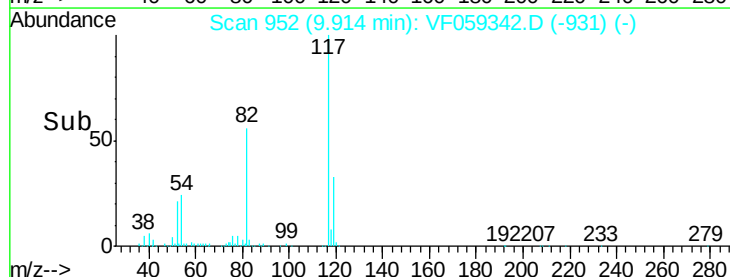
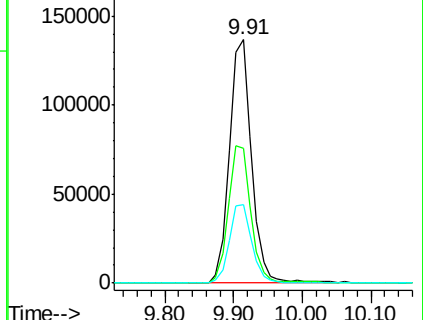
119 32.5 24.1 36.1

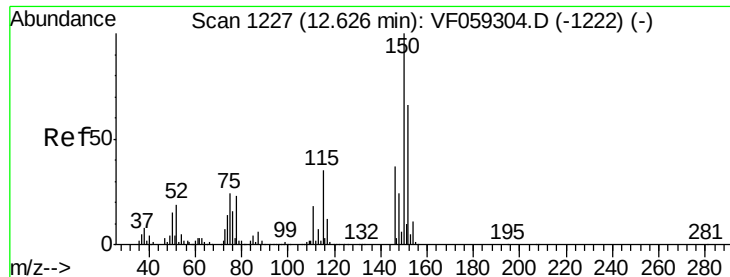


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



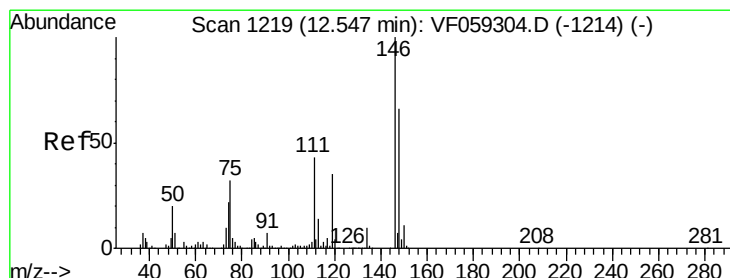
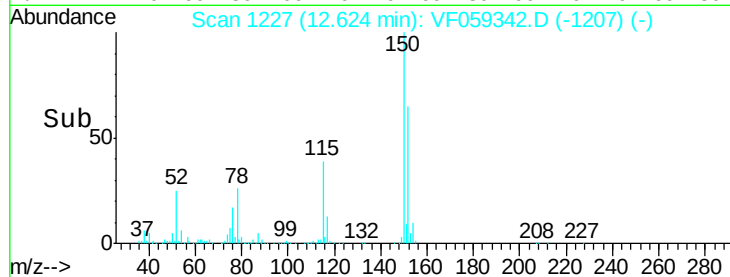
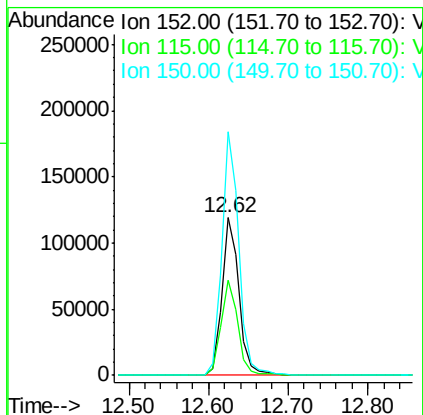
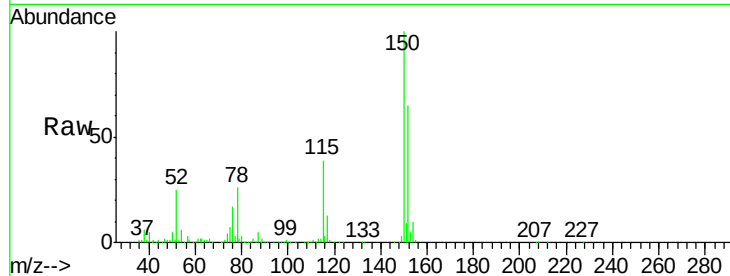


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.6	27.1	81.3
150	154.6	0.0	305.2



#87

1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.56 min Scan# 1220
Delta R.T. 0.01 min
Lab File: VF059342.D
Acq: 27 Jun 2018 16:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	21.4	64.2
148	0.0	32.8	98.4#

