

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042919\
 Data File : VF062324.D
 Acq On : 29 Apr 2019 20:33
 Operator : FY/SY
 Sample : K2194-07RE
 Misc : 6.26g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Apr 30 03:50:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	232492	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.76	114	328513	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	269000	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	153940	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	123935	65.81	ug/l	-0.02
Spiked Amount			Recovery	=	131.62%	
35) Dibromofluoromethane	4.30	113	145610	59.78	ug/l	-0.02
Spiked Amount			Recovery	=	119.56%	
50) Toluene-d8	7.70	98	283464	47.64	ug/l	-0.02
Spiked Amount			Recovery	=	95.28%	
62) 4-Bromofluorobenzene	11.49	95	139392	56.84	ug/l	-0.02
Spiked Amount			Recovery	=	113.68%	

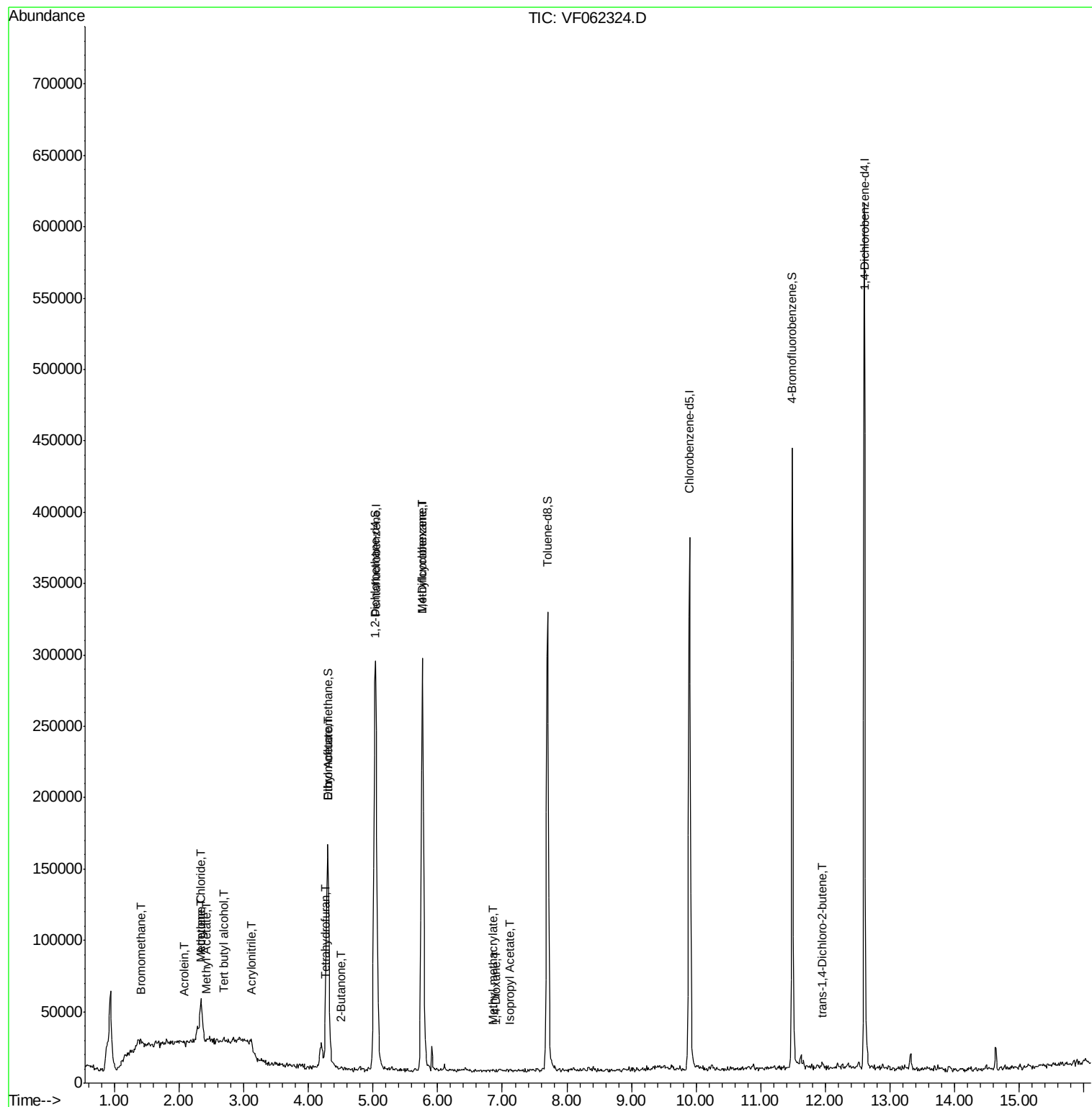
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	1508	1.007	ug/l #	6
11) Tert butyl alcohol	2.68	59	859	7.541	ug/l #	71
13) Acrolein	2.08	56	237	10.396	ug/l #	10
15) Acrylonitrile	3.11	53	1611	5.106	ug/l #	39
16) Acetone	2.34	43	36897	87.507	ug/l #	82
18) Methyl Acetate	2.43	43	7510	7.005	ug/l #	81
20) Methylene Chloride	2.32	84	14294	2.978	ug/l	97
25) 2-Butanone	4.52	43	1211	1.811	ug/l #	57
29) Tetrahydrofuran	4.25	42	523	1.780	ug/l #	63
37) Ethyl Acetate	4.30	43	1656	1.299	ug/l #	13
39) Methylcyclohexane	5.76	83	4385	1.239	ug/l #	34
43) Isopropyl Acetate	7.11	43	1757	1.138	ug/l #	46
48) Methyl methacrylate	6.85	41	1374	1.471	ug/l #	74
49) 1,4-Dioxane	6.91	88	75	6.972	ug/l #	1
59) 2-Hexanone	9.61	43	2309	Below Cal		78
81) trans-1,4-Dichloro-2-buten	11.96	75	707	1.330	ug/l #	7

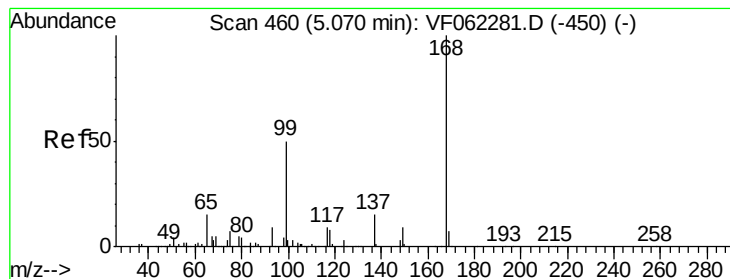
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 25 08:40:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.03 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

Instrument :

MSVOA_F

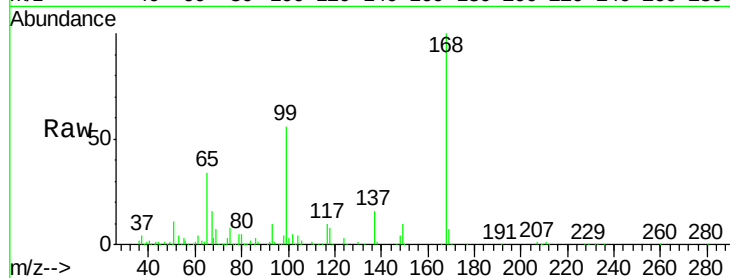
ClientSampleId :

Tot Ion:168 Resp: 232492

Ion Ratio Lower Upper

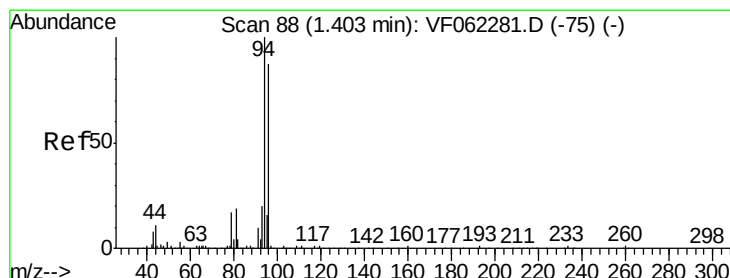
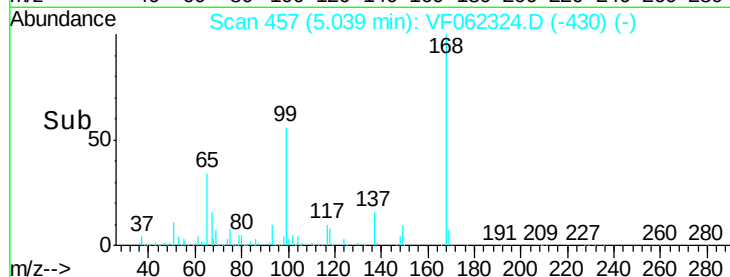
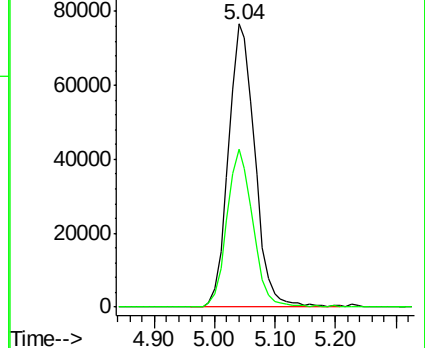
168 100

99 55.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#5

Bromomethane

Concen: 1.007 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF062324.D

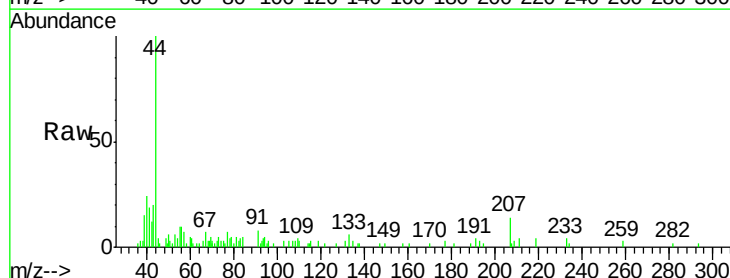
Acq: 29 Apr 2019 20:33

Tgt Ion: 94 Resp: 1508

Ion Ratio Lower Upper

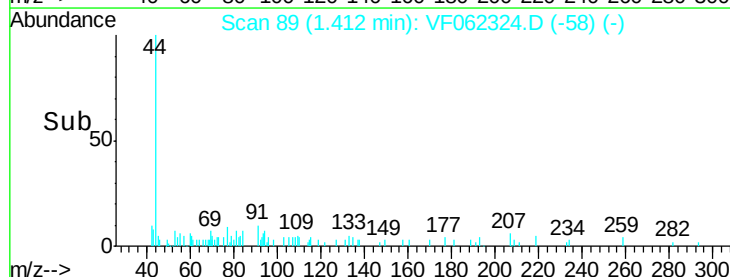
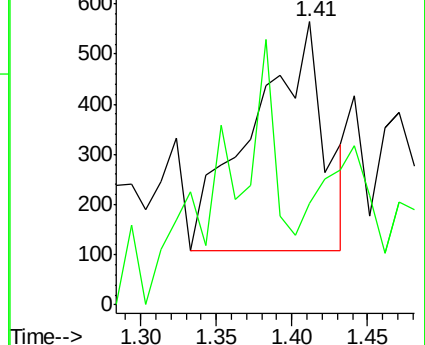
94 100

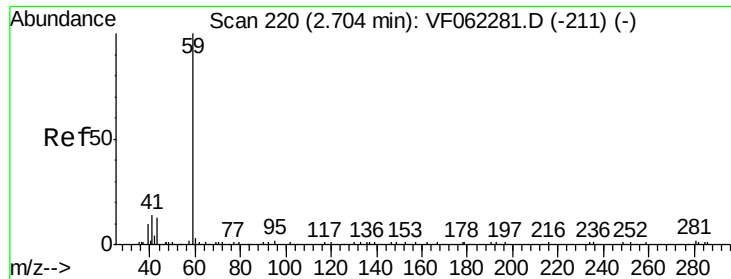
96 0.0 69.5 104.3#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



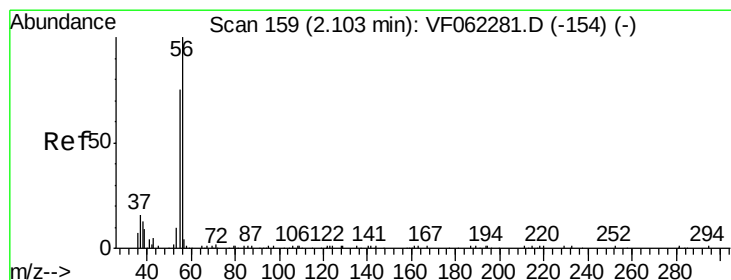
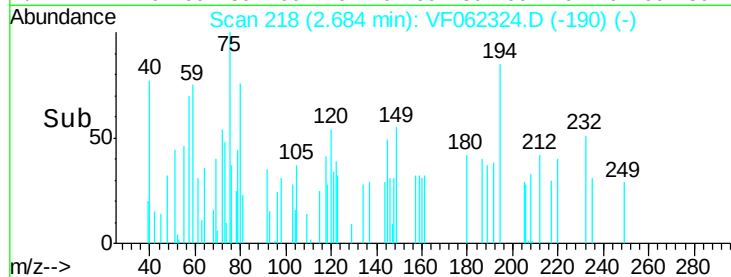
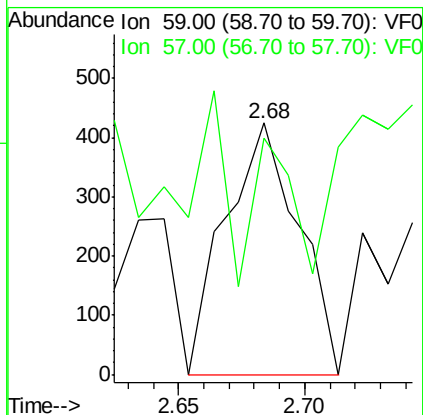
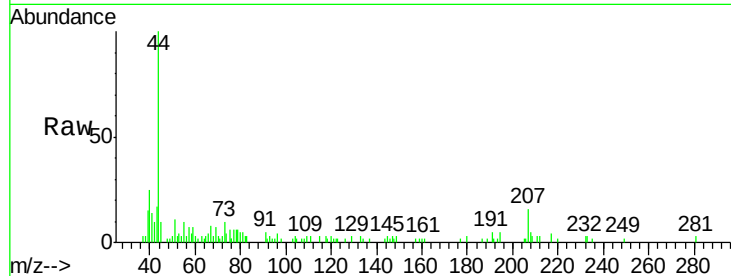


#11

Tert butyl alcohol
Concen: 7.541 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.02 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

Instrument :
MSVOA_F
ClientSampled :

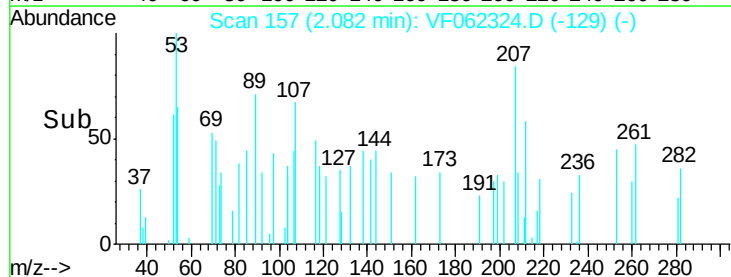
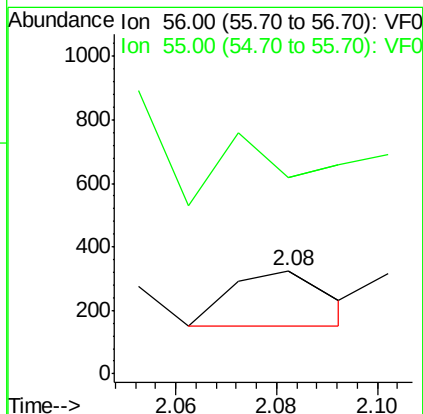
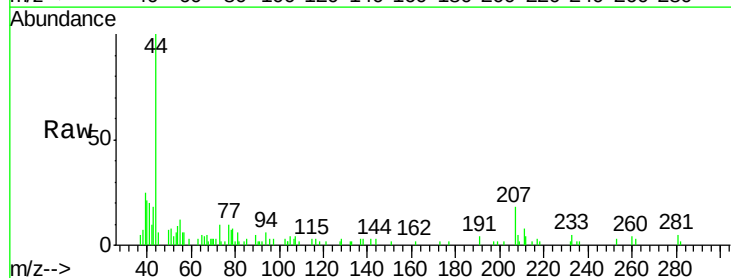
Tot Ion: 59 Resp: 859
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

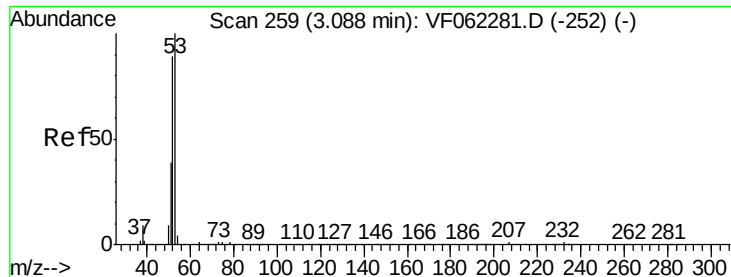


#13

Acrolein
Concen: 10.396 ug/l
RT: 2.08 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 0.0 62.3 93.5#





#15

Acrylonitrile

Concen: 5.106 ug/l

RT: 3.11 min Scan# 261

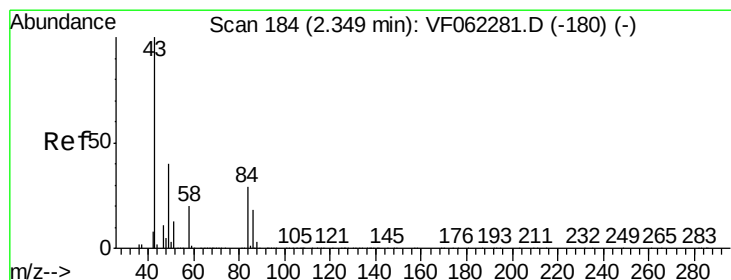
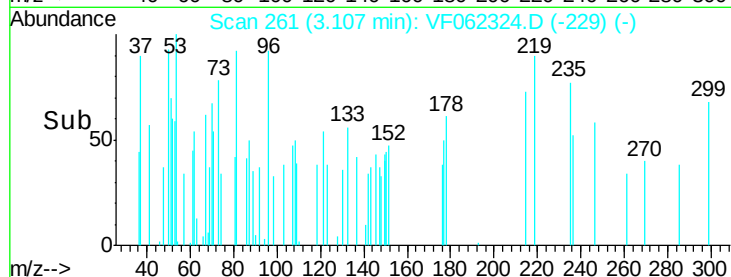
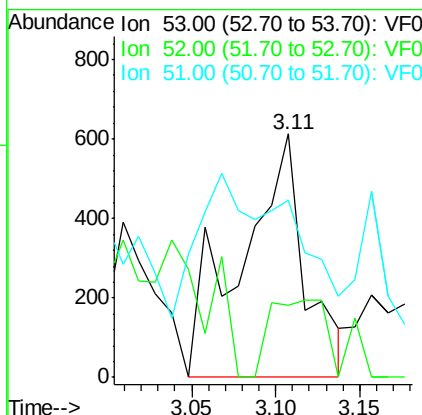
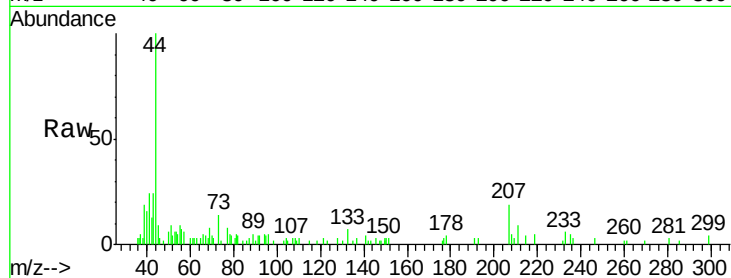
Delta R.T. 0.02 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	53	Resp:	1611
Ion	Ratio	Lower	Upper
53	100		
52	33.4	70.6	105.8#
51	0.0	32.6	48.8#



#16

Acetone

Concen: 87.507 ug/l

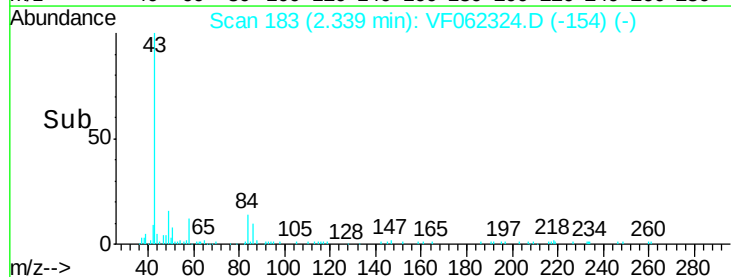
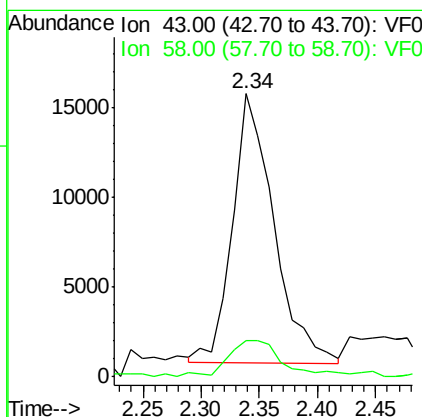
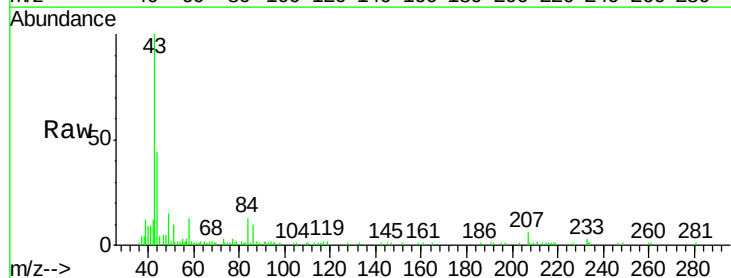
RT: 2.34 min Scan# 183

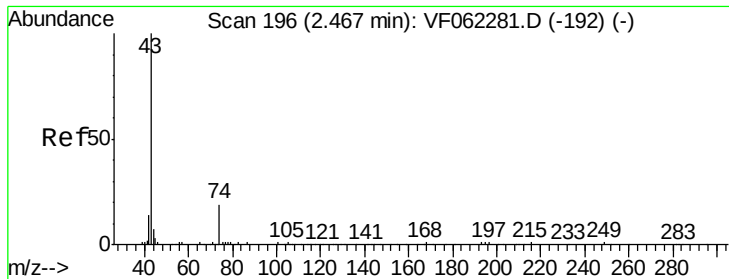
Delta R.T. -0.01 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

Tgt Ion:	43	Resp:	36897
Ion	Ratio	Lower	Upper
43	100		
58	12.2	16.4	24.6#

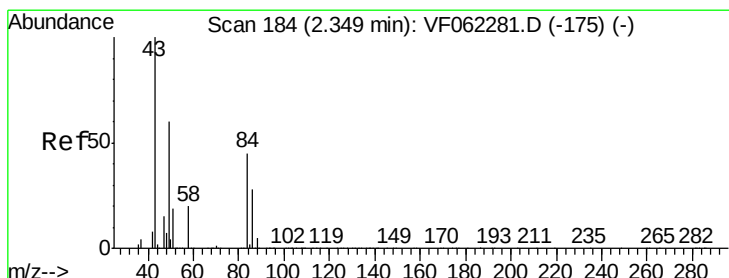
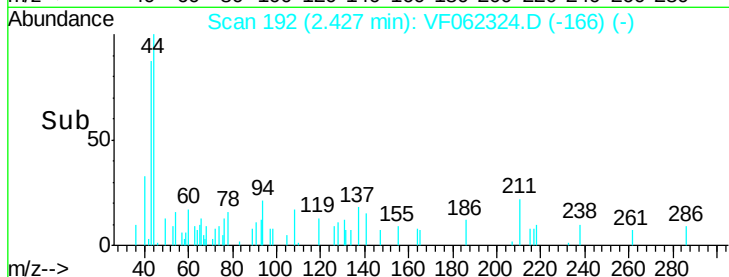
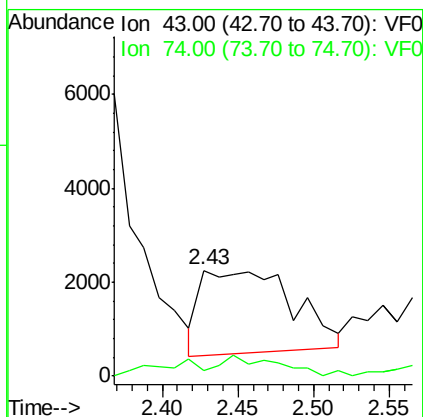
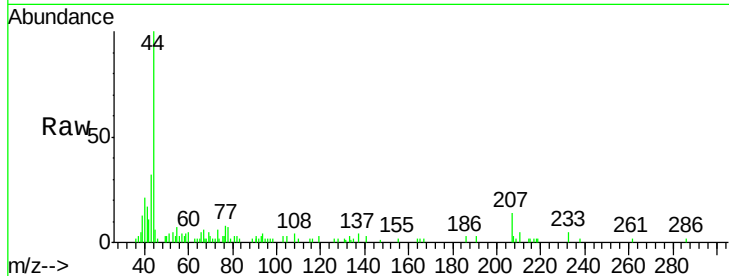




#18
Methyl Acetate
Concen: 7.005 ug/l
RT: 2.43 min Scan# 192
Delta R.T. -0.04 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

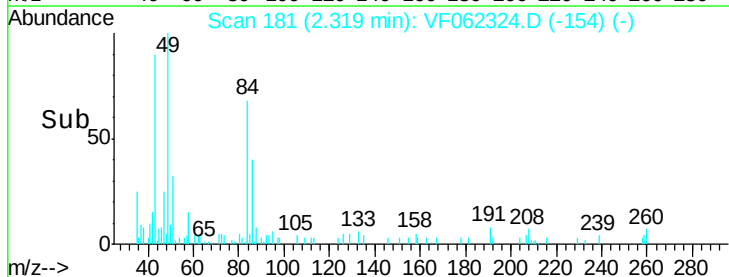
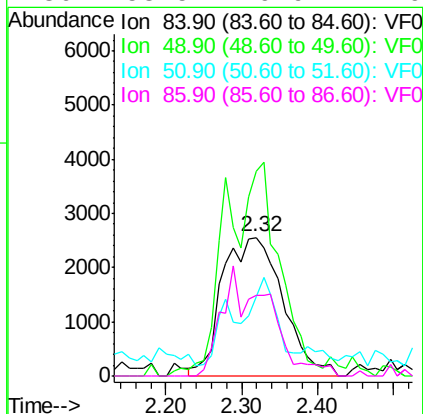
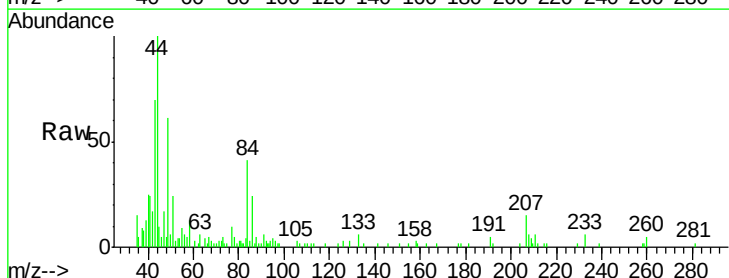
Instrument :
MSVOA_F
ClientSampled :

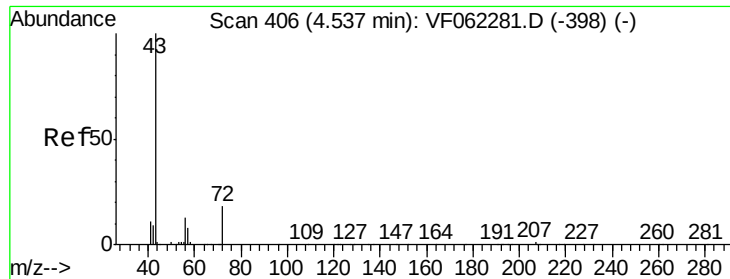
Tot Ion: 43 Resp: 7510
Ion Ratio Lower Upper
43 100
74 9.7 14.4 21.6#



#20
Methylene Chloride
Concen: 2.978 ug/l
RT: 2.32 min Scan# 181
Delta R.T. -0.03 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

Tgt Ion: 84 Resp: 14294
Ion Ratio Lower Upper
84 100
49 142.7 112.1 168.1
51 46.4 35.9 53.9
86 58.5 49.9 74.9





#25

2-Butanone

Concen: 1.811 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

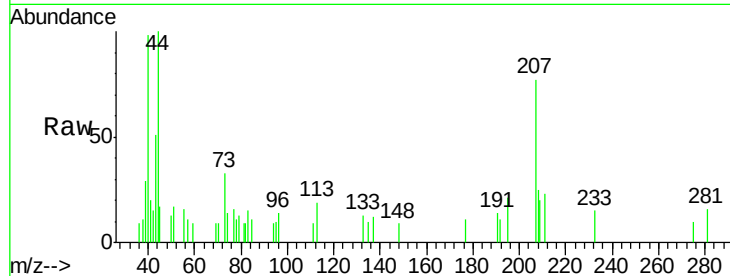
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1211

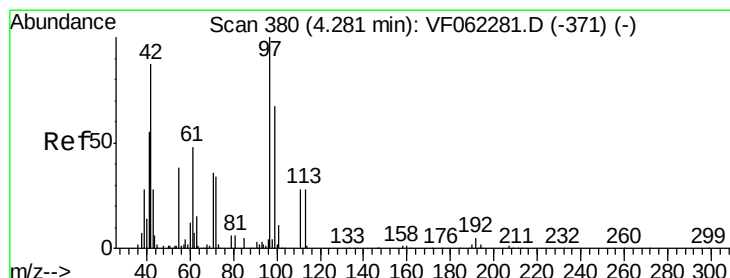
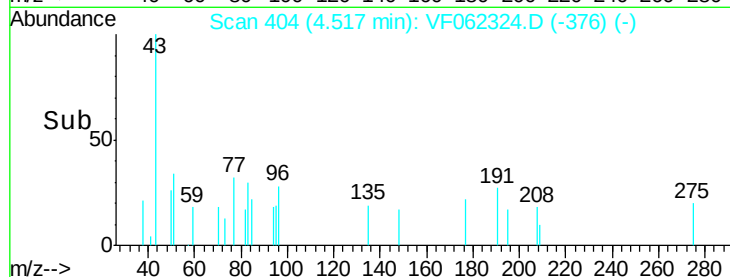
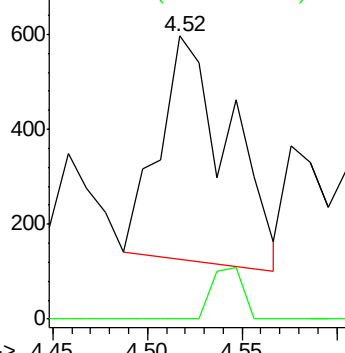
Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 1.780 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.03 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

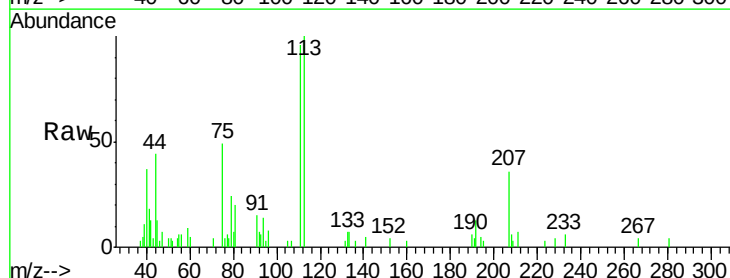
Tgt Ion: 42 Resp: 523

Ion Ratio Lower Upper

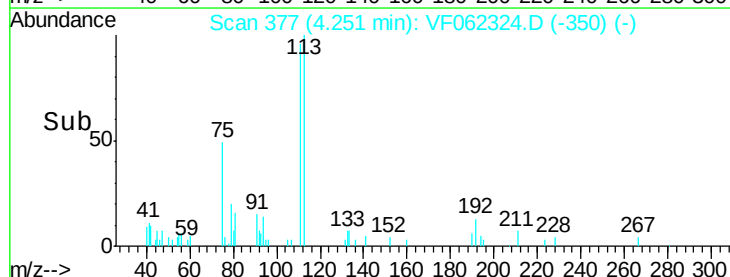
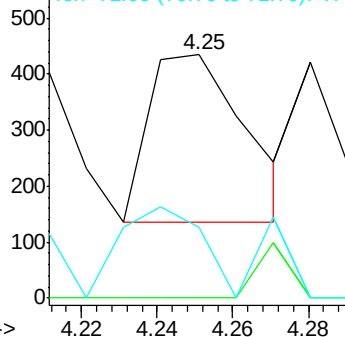
42 100

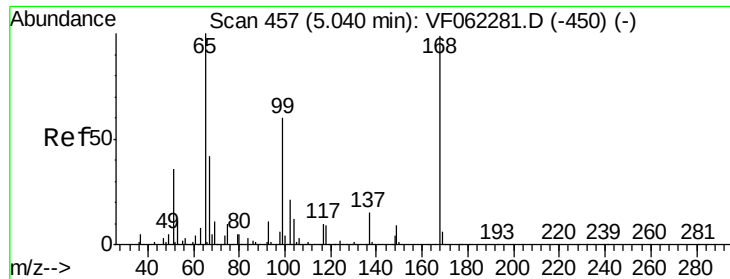
72 0.0 29.3 43.9#

71 47.2 31.2 46.8#



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

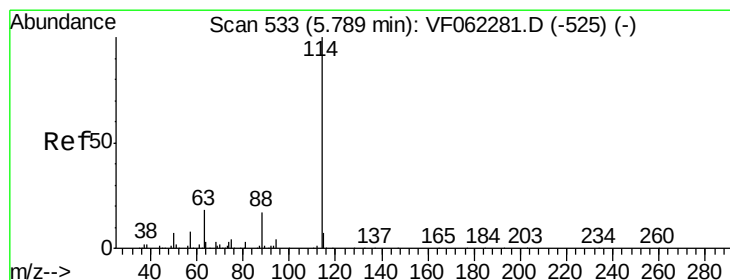
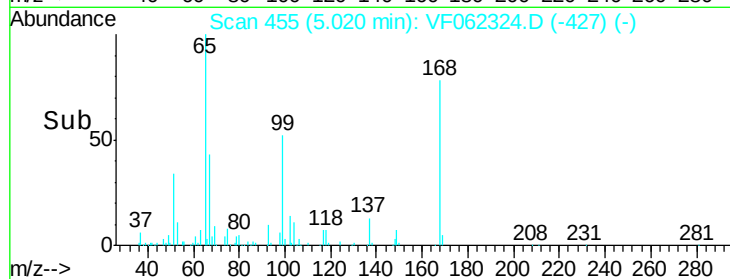
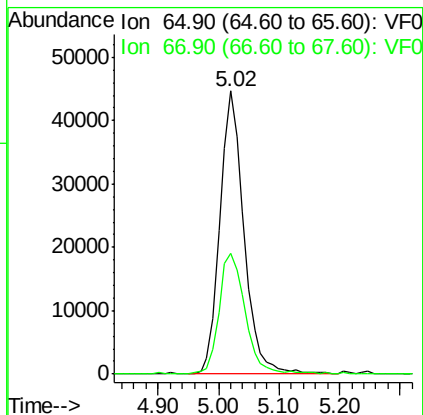
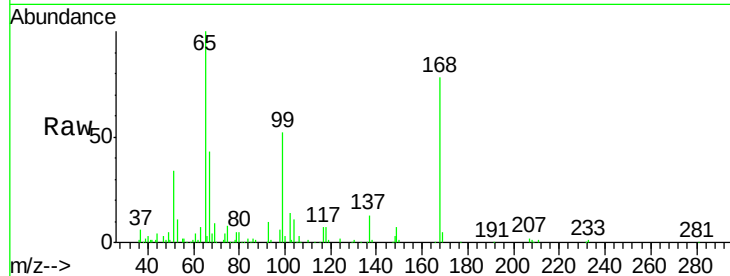




#33
 1,2-Dichloroethane-d4
 Concen: 65.810 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.02 min
 Lab File: VF062324.D
 Acq: 29 Apr 2019 20:33

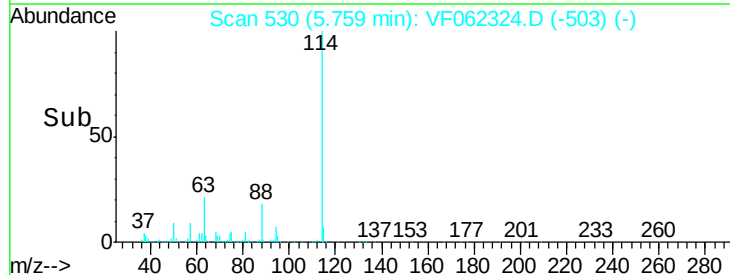
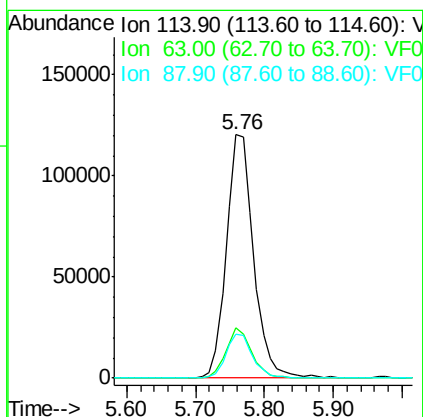
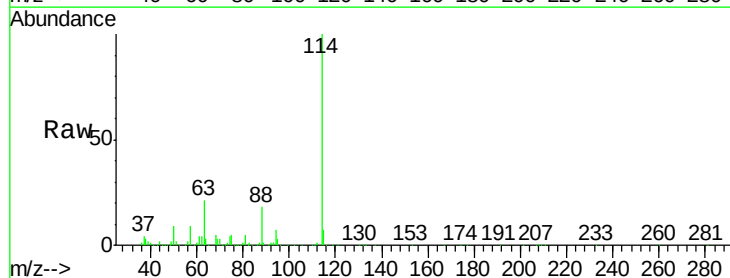
Instrument :
 MSVOA_F
 ClientSampled :

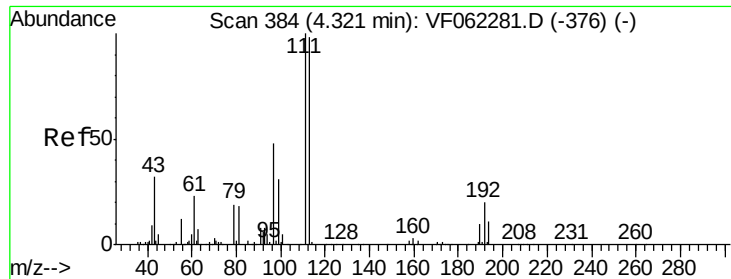
Tot Ion: 65 Resp: 123935
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 98.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.03 min
 Lab File: VF062324.D
 Acq: 29 Apr 2019 20:33

Tgt Ion: 114 Resp: 328513
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 35.6
 88 17.8 0.0 34.6

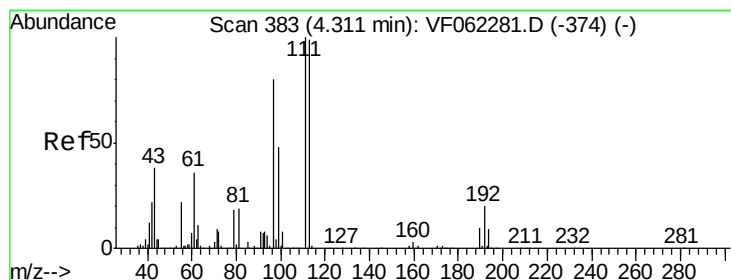
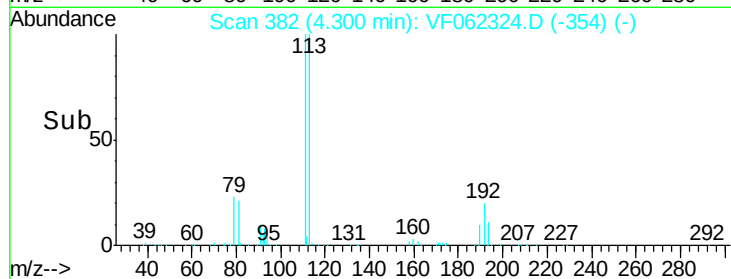
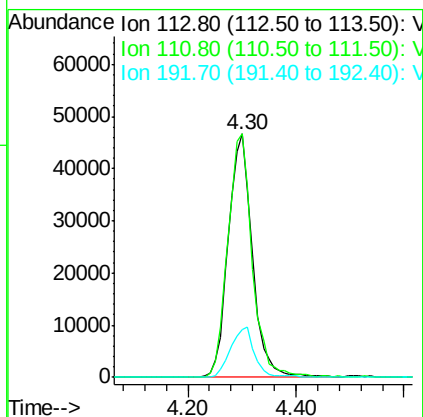
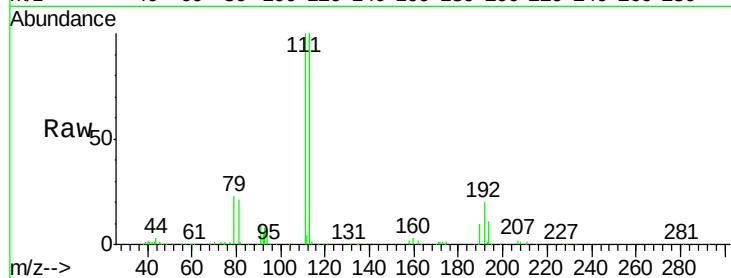




#35
 Dibromofluoromethane
 Concen: 59.780 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.02 min
 Lab File: VF062324.D
 Acq: 29 Apr 2019 20:33

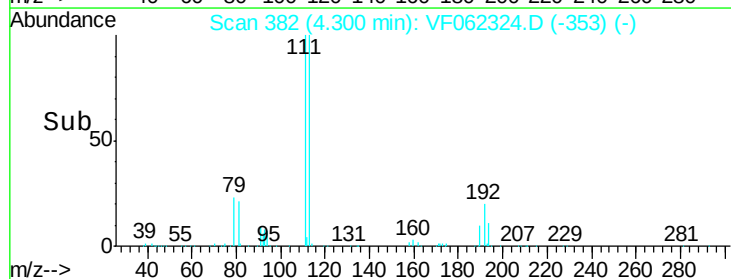
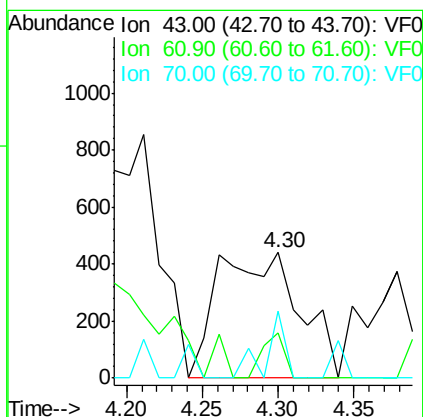
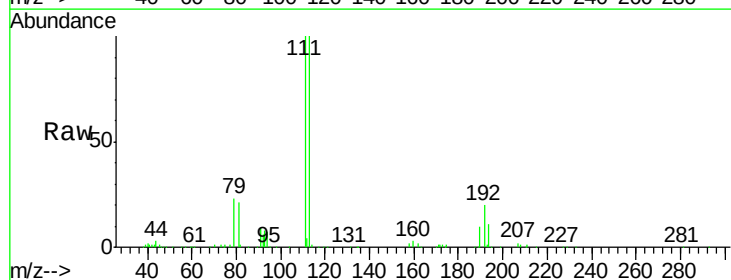
Instrument :
 MSVOA_F
 ClientSampleId :

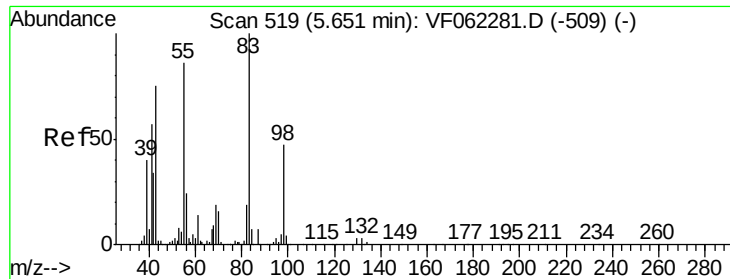
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.4	122.2
192	20.3	17.0	25.4



#37
 Ethyl Acetate
 Concen: 1.299 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: VF062324.D
 Acq: 29 Apr 2019 20:33

Tgt Ion	Ratio	Lower	Upper
43	100		
61	9.7	85.8	128.6#
70	12.1	7.3	10.9#





#39

Methylcyclohexane

Concen: 1.239 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.11 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

Instrument :

MSVOA_F

ClientSampleId :

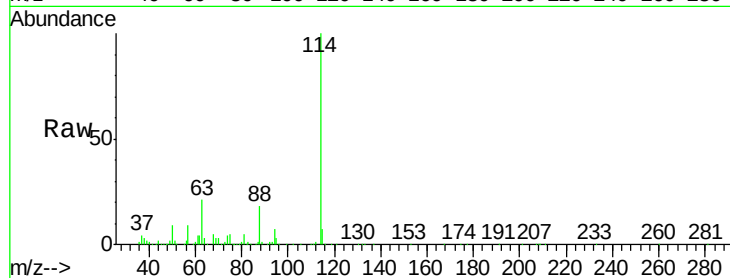
Tot Ion: 83 Resp: 4385

Ion Ratio Lower Upper

83 100

55 27.5 68.7 103.1#

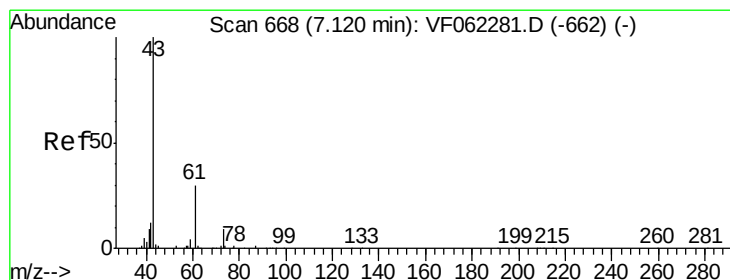
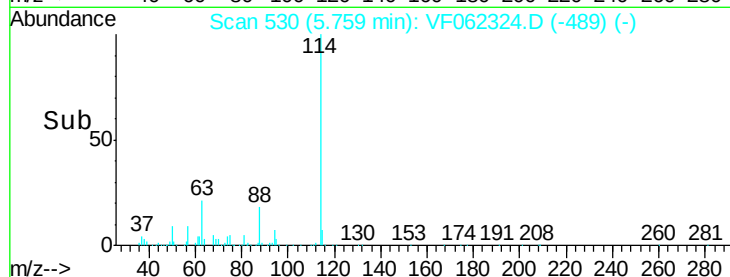
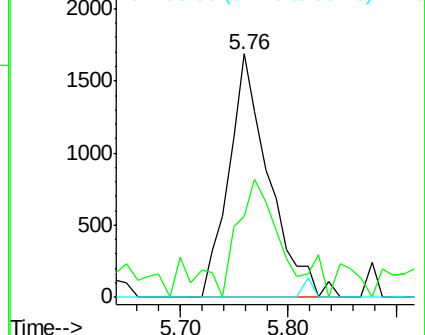
98 0.0 37.4 56.2#



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



#43

Isopropyl Acetate

Concen: 1.138 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

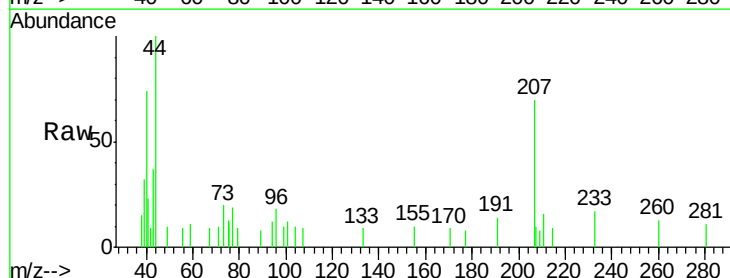
Tgt Ion: 43 Resp: 1757

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.6#

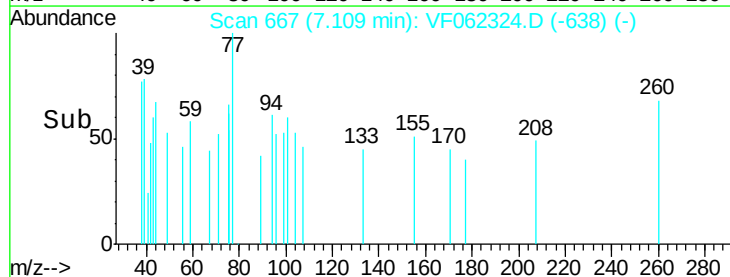
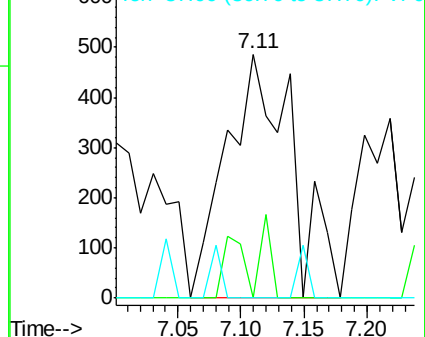
87 0.0 0.5 0.7#

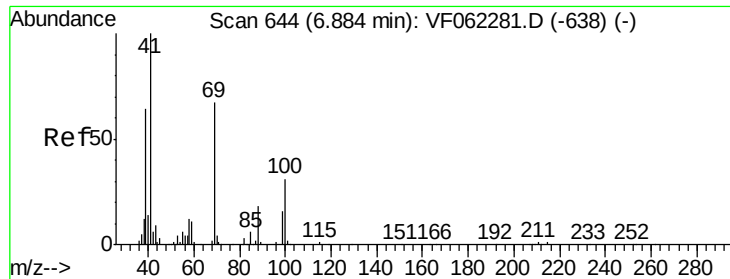


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

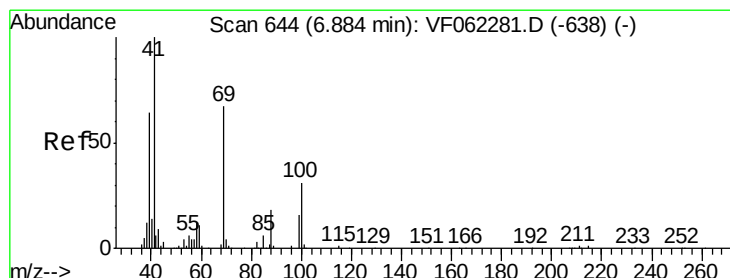
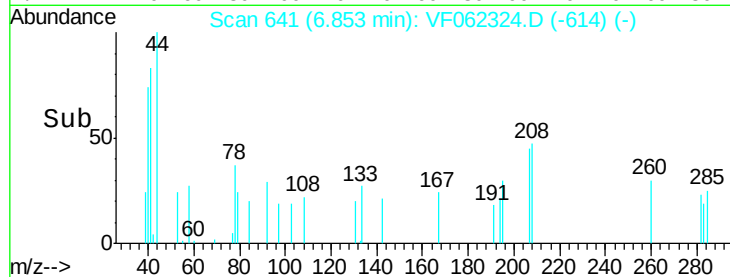
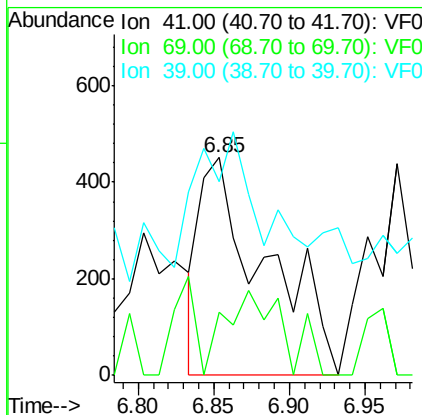
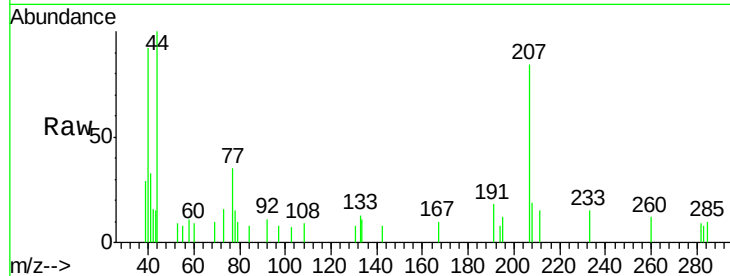




#48
Methvl methacrylate
Concen: 1.471 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.03 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

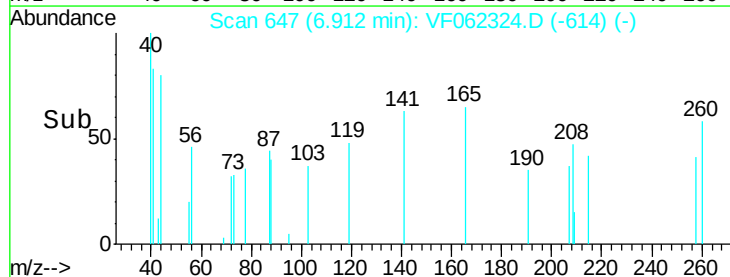
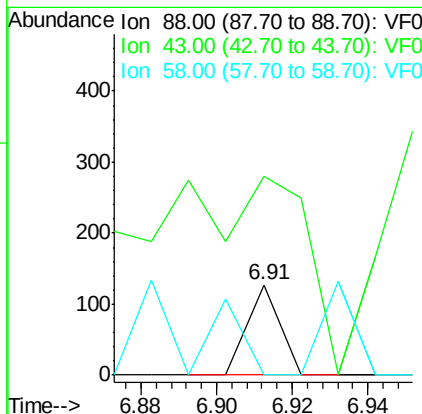
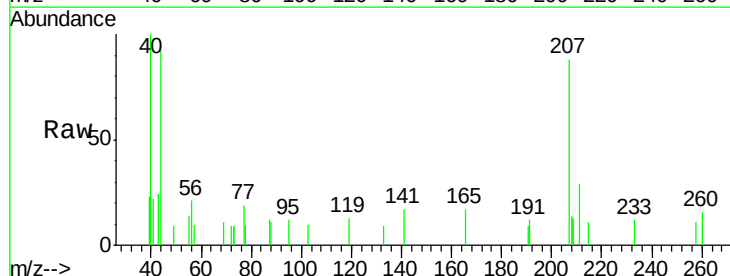
Instrument :
MSVOA_F
ClientSampleId :

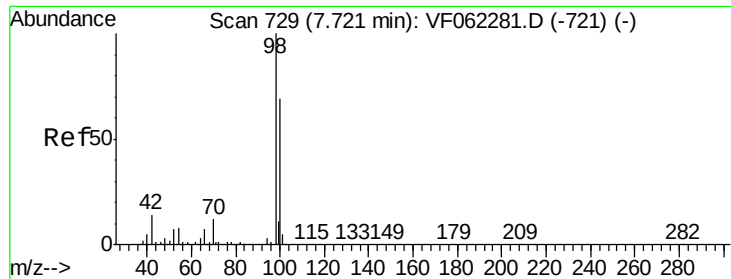
Tot Ion: 41 Resp: 1374
Ion Ratio Lower Upper
41 100
69 35.1 53.4 80.2#
39 55.2 50.9 76.3



#49
1,4-Dioxane
Concen: 6.972 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.03 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

Tgt Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 784.0 34.2 51.4#
58 0.0 50.7 76.1#

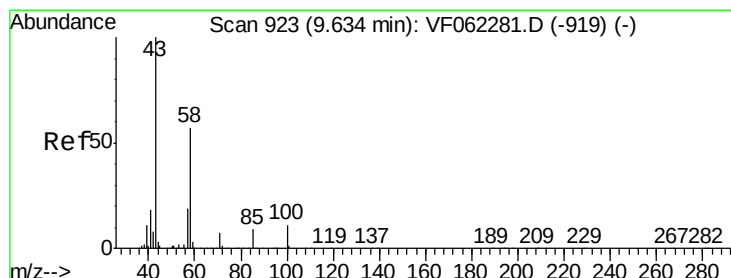
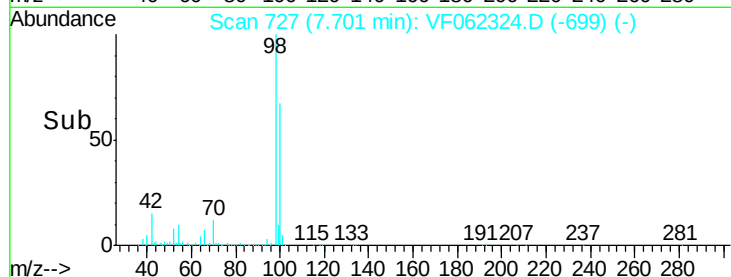
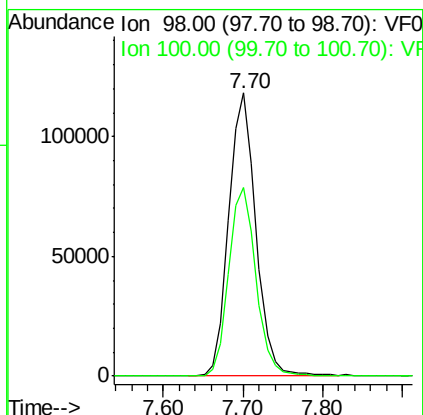
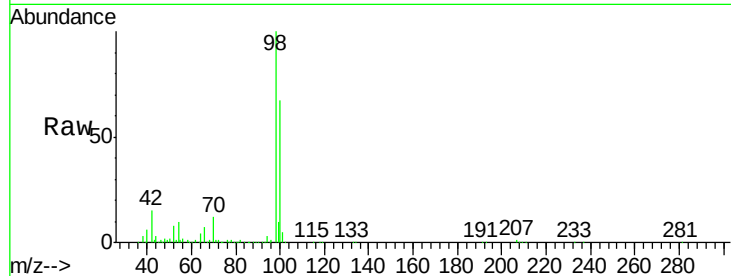




#50
Toluene-d8
Concen: 47.644 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

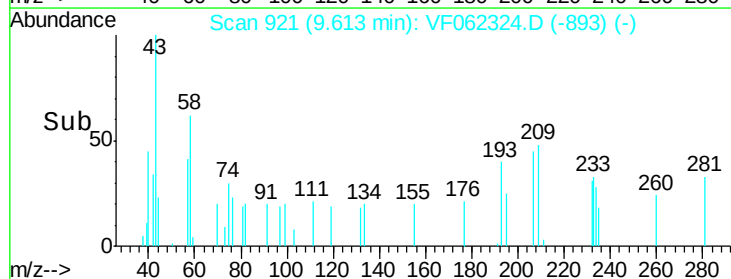
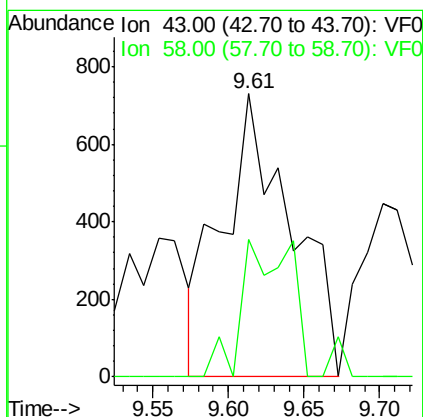
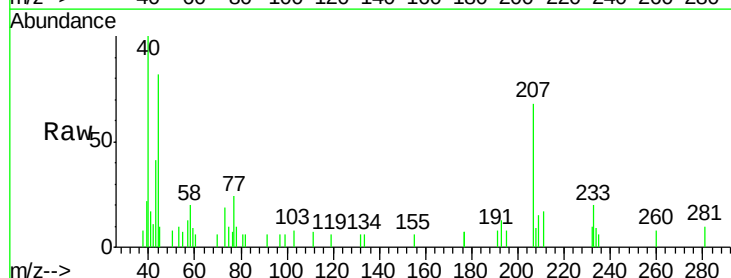
Instrument :
MSVOA_F
ClientSampleId :

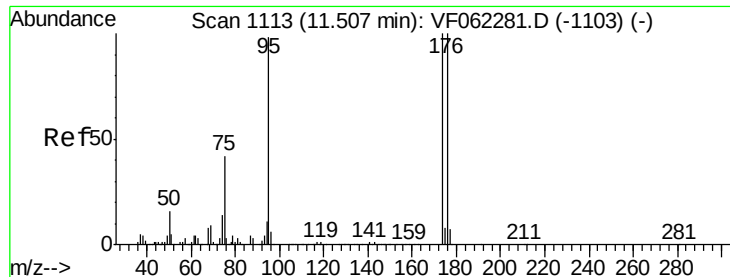
Tot Ion: 98 Resp: 283464
Ion Ratio Lower Upper
98 100
100 67.1 54.4 81.6



#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.02 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

Tgt Ion: 43 Resp: 2309
Ion Ratio Lower Upper
43 100
58 34.7 24.9 74.7

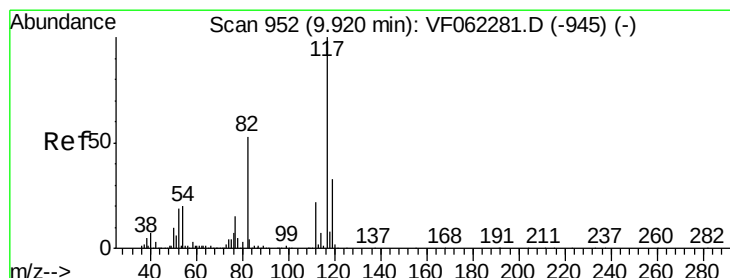
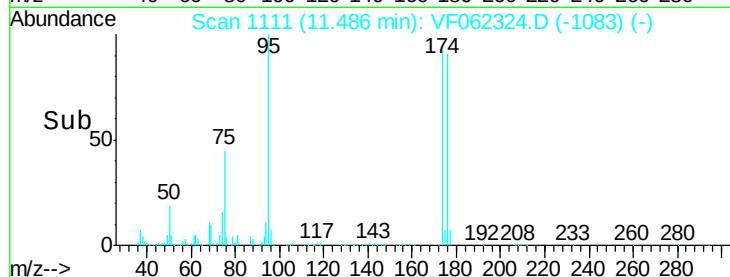
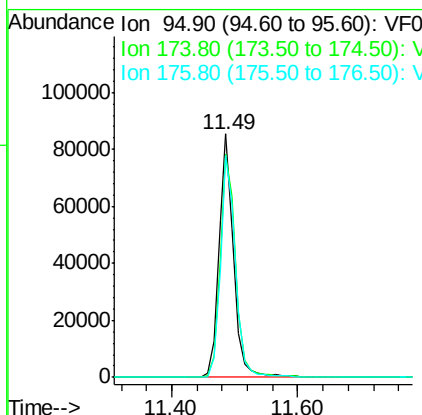
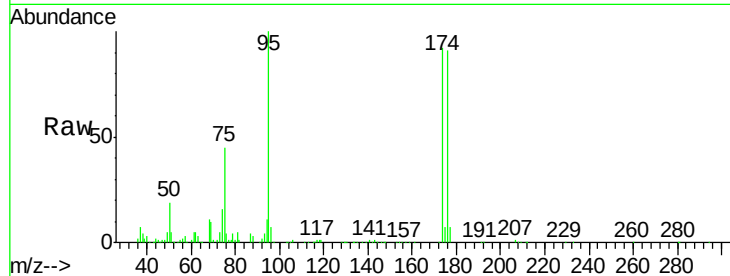




#62
4-Bromofluorobenzene
Concen: 56.840 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

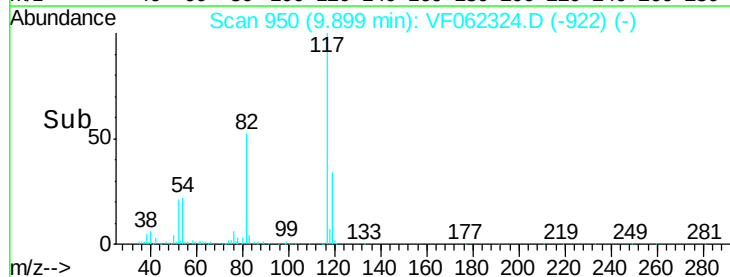
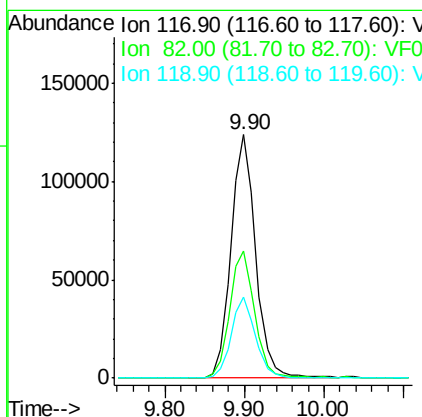
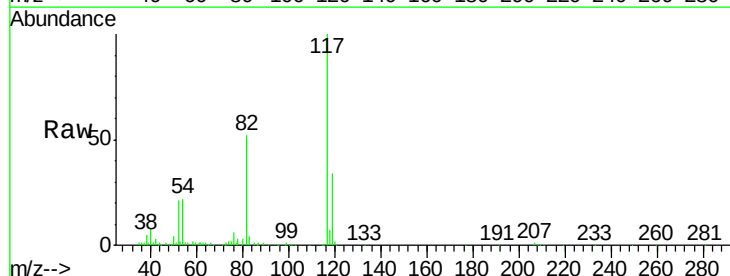
Instrument :
MSVOA_F
ClientSampled :

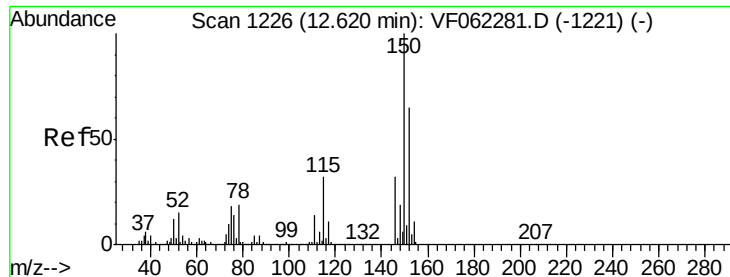
Tot Ion: 95 Resp: 139392
Ion Ratio Lower Upper
95 100
174 97.4 0.0 185.2
176 93.4 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.02 min
Lab File: VF062324.D
Acq: 29 Apr 2019 20:33

Tgt Ion: 117 Resp: 269000
Ion Ratio Lower Upper
117 100
82 52.3 42.6 64.0
119 33.4 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.60 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

Instrument :

MSVOA_F

ClientSampleId :

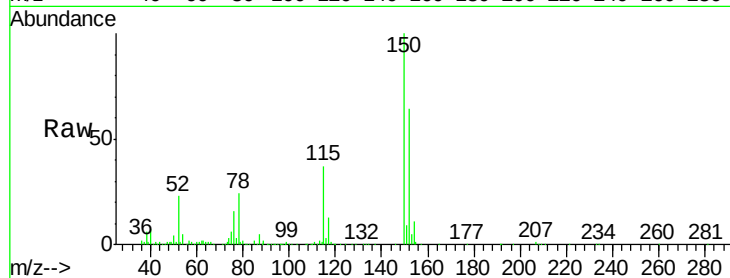
Tot Ion:152 Resp: 153940

Ion Ratio Lower Upper

152 100

115 55.9 25.6 76.8

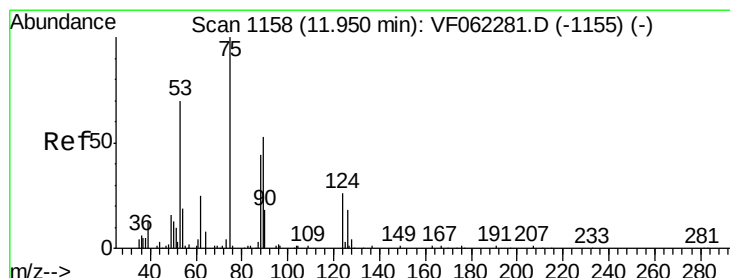
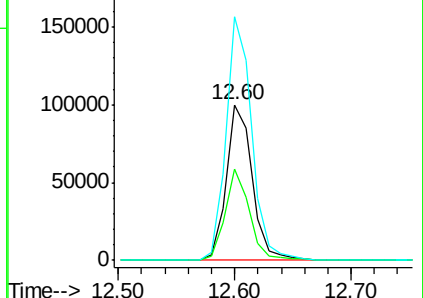
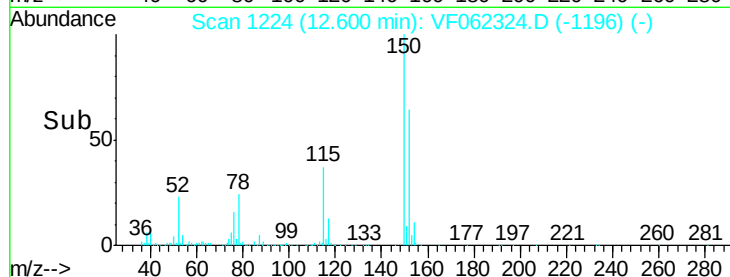
150 155.2 0.0 330.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.330 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062324.D

Acq: 29 Apr 2019 20:33

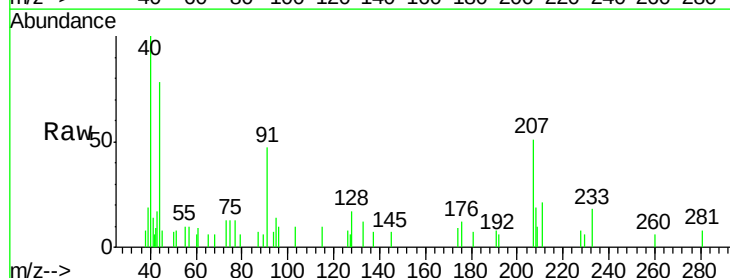
Tgt Ion: 75 Resp: 707

Ion Ratio Lower Upper

75 100

53 0.0 67.1 100.7#

89 22.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

