

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062409.D
 Acq On : 9 May 2019 21:30
 Operator : FY/SY
 Sample : K2645-03
 Misc : 6.41g/5mL/MSVOA_F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-050719-B

Quant Time: May 10 01:55:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	266234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	336439	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	137030	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	136416	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	198461	78.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	157.76%	
35) Dibromofluoromethane	4.30	113	213337	79.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	159.18%	
50) Toluene-d8	7.71	98	35515	5.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	10.94%	
62) 4-Bromofluorobenzene	11.49	95	132777	45.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.72%	

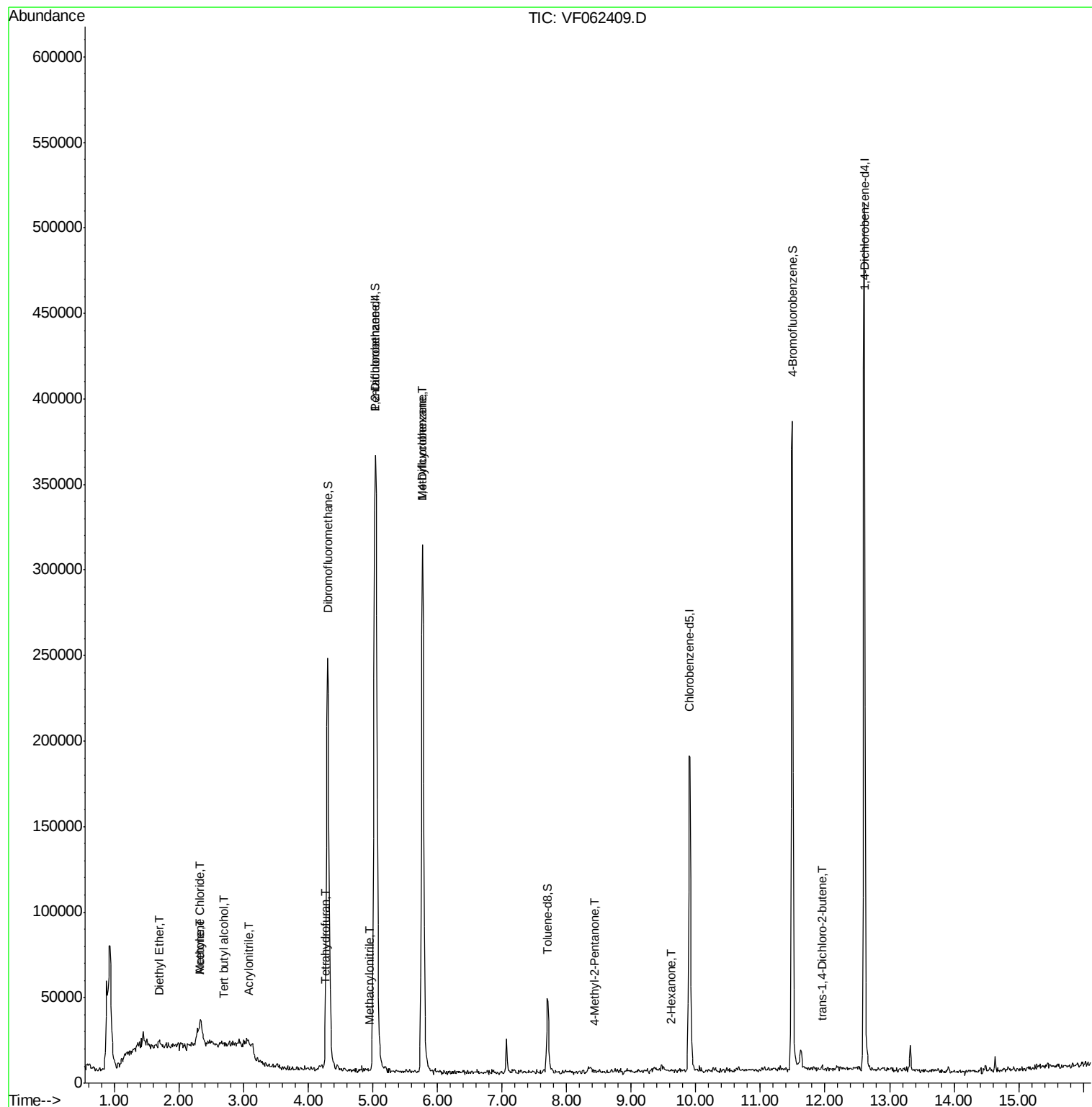
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	490	Below Cal	#	3
8) Diethyl Ether	1.71	74	1521	2.390	ug/l	83
11) Tert butyl alcohol	2.69	59	1230	8.650	ug/l #	70
13) Acrolein	2.06	56	542	Below Cal	#	82
15) Acrylonitrile	3.09	53	983	3.649	ug/l #	59
16) Acetone	2.34	43	16130	31.691	ug/l	96
18) Methyl Acetate	2.46	43	1654	Below Cal	#	73
20) Methylene Chloride	2.33	84	6630	3.600	ug/l #	77
29) Tetrahydrofuran	4.25	42	463	1.575	ug/l #	57
37) Ethyl Acetate	4.26	43	595	Below Cal	#	89
38) Carbon Tetrachloride	4.18	117	79	Below Cal	#	14
39) Methylcyclohexane	5.77	83	4855	1.675	ug/l #	33
41) Methacrylonitrile	4.95	41	990	1.429	ug/l #	38
49) 1,4-Dioxane	6.95	88	108	Below Cal	#	7
51) 4-Methyl-2-Pentanone	8.44	43	1270	1.275	ug/l #	40
59) 2-Hexanone	9.62	43	1092	1.585	ug/l	65
81) trans-1,4-Dichloro-2-buten	11.95	75	458	1.261	ug/l #	5

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

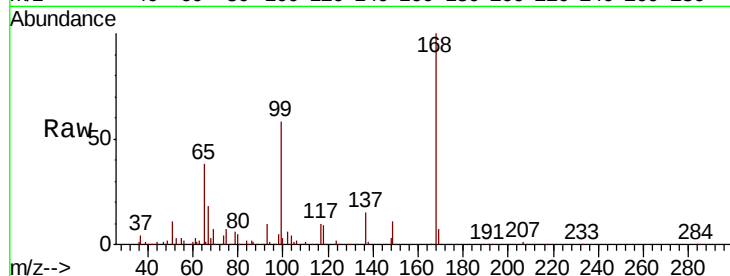
PL-02-050719-B

Tgt Ion:168 Resp: 266234

Ion Ratio Lower Upper

168 100

99 57.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

80000

60000

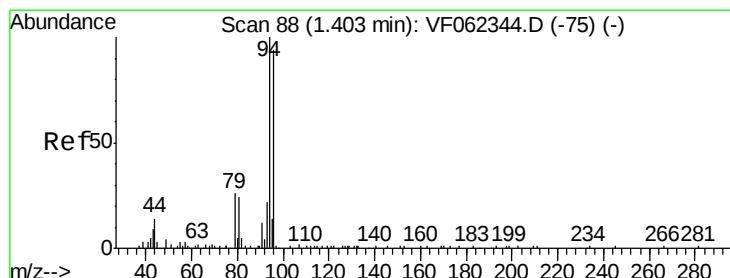
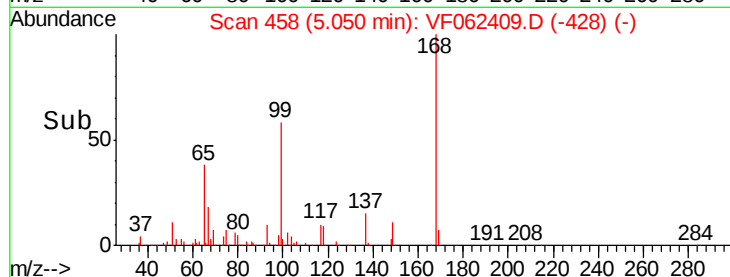
40000

20000

0

5.00 5.20

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.02 min

Lab File: VF062409.D

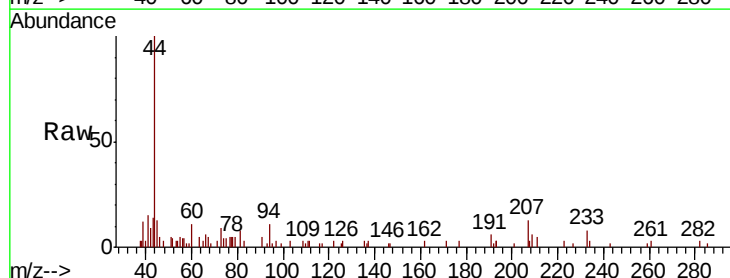
Acq: 9 May 2019 21:30

Tgt Ion: 94 Resp: 490

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.42

600

500

400

300

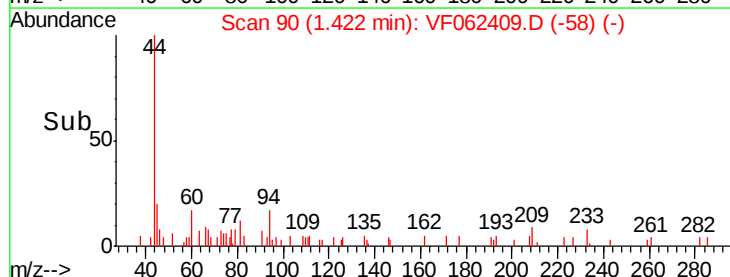
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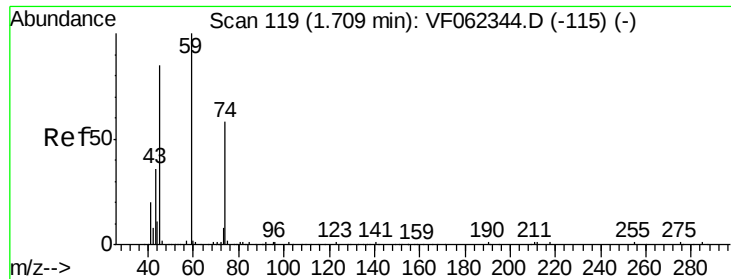
100

0

1.40 1.42 1.44 1.46

Time-->





#8

Diethyl Ether

Concen: 2.390 ug/l

RT: 1.71 min Scan# 119

Delta R.T. -0.00 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

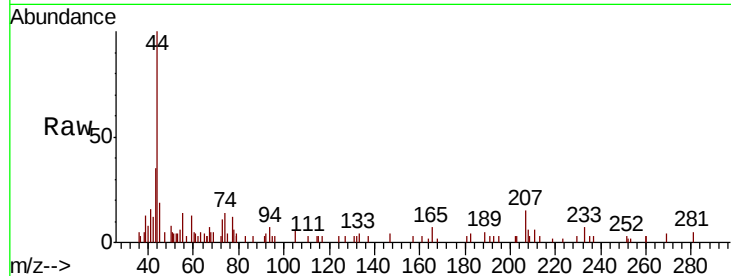
PL-02-050719-B

Tgt Ion: 74 Resp: 1521

Ion Ratio Lower Upper

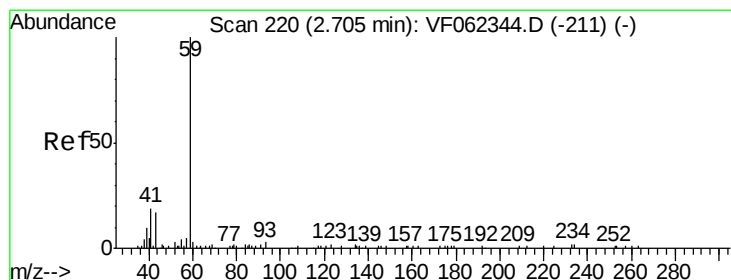
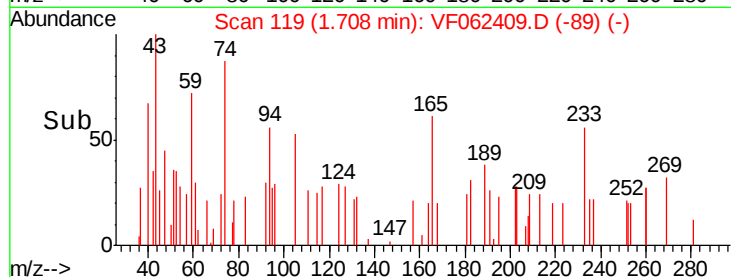
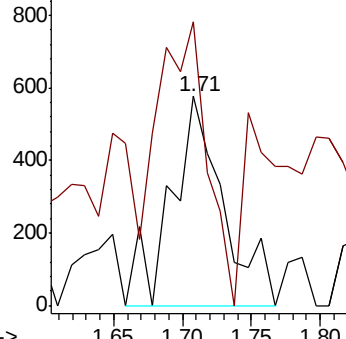
74 100

45 126.0 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 8.650 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.01 min

Lab File: VF062409.D

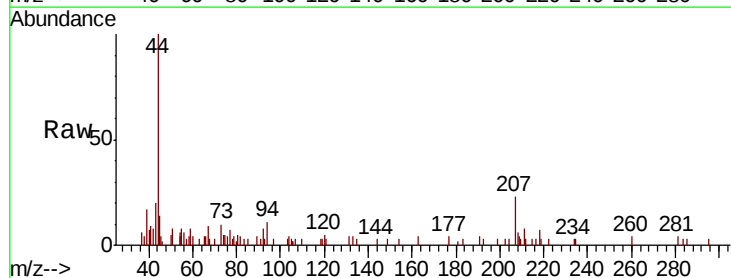
Acq: 9 May 2019 21:30

Tgt Ion: 59 Resp: 1230

Ion Ratio Lower Upper

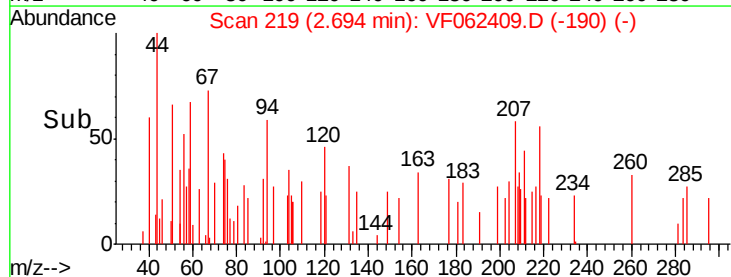
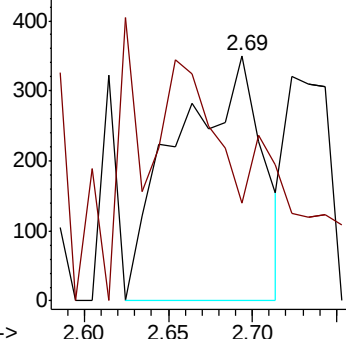
59 100

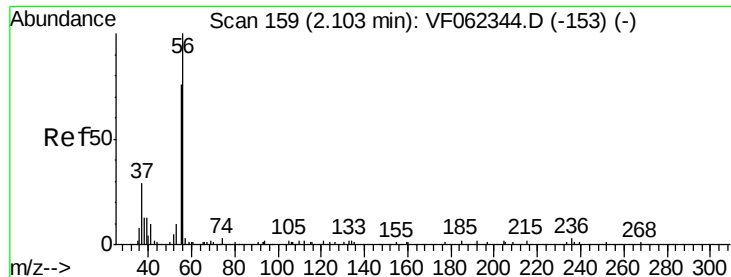
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

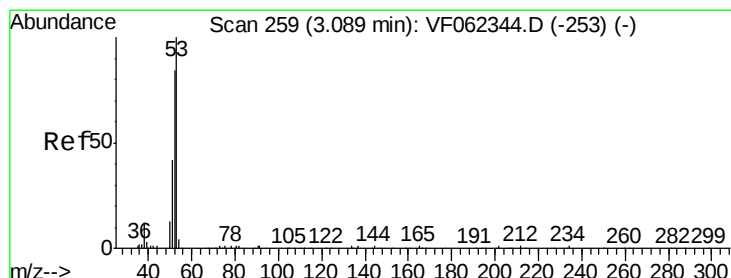
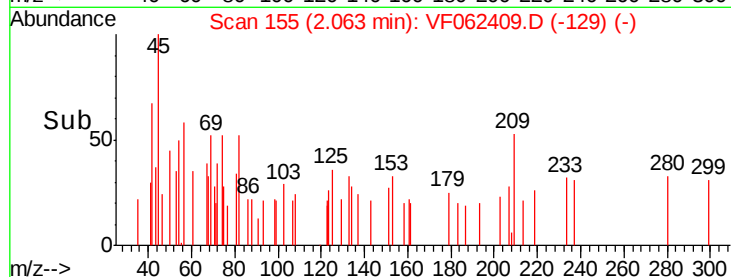
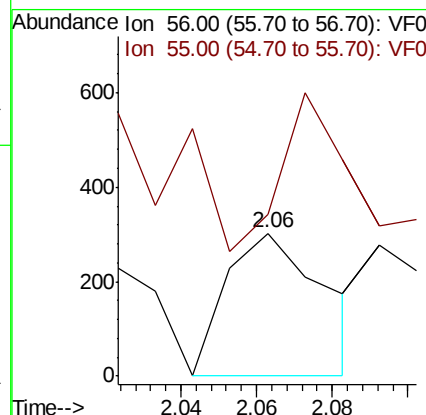
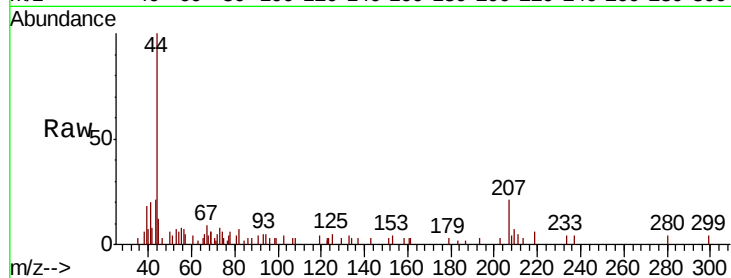




#13
Acrolein
Concen: Below Cal
RT: 2.06 min Scan# 155
Delta R.T. -0.04 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

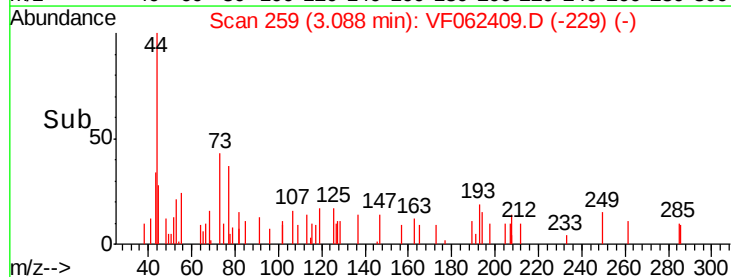
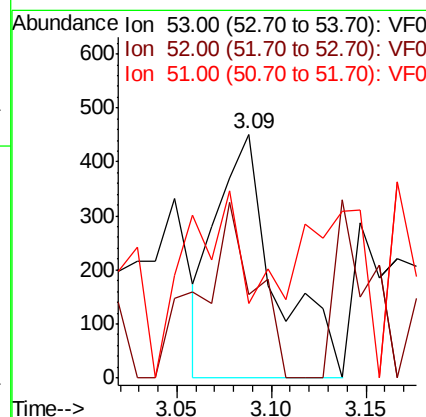
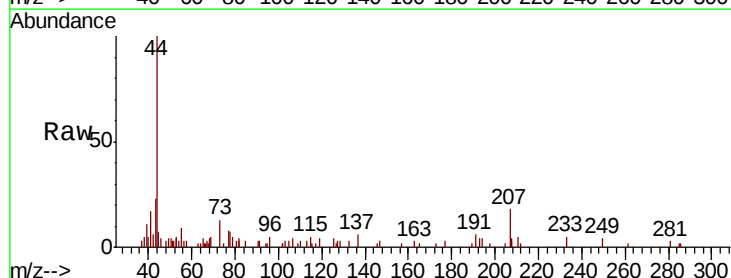
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-B

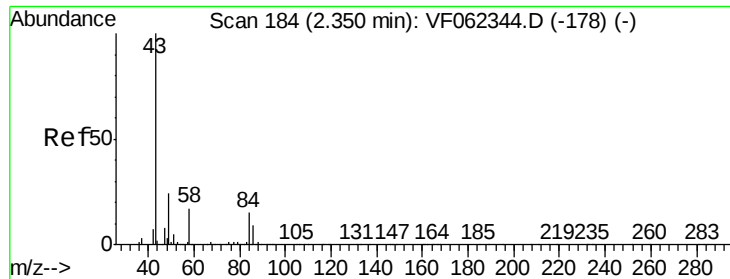
Tgt Ion: 56 Resp: 542
Ion Ratio Lower Upper
56 100
55 88.0 58.4 87.6#



#15
Acrylonitrile
Concen: 3.649 ug/l
RT: 3.09 min Scan# 259
Delta R.T. -0.00 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

Tgt Ion: 53 Resp: 983
Ion Ratio Lower Upper
53 100
52 66.5 77.2 115.8#
51 92.9 40.6 61.0#

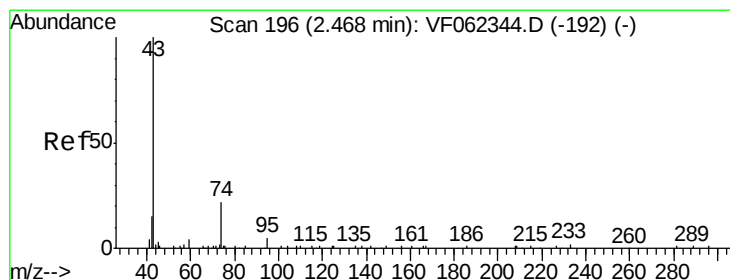
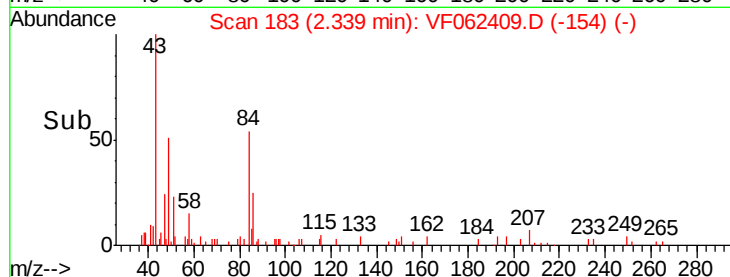
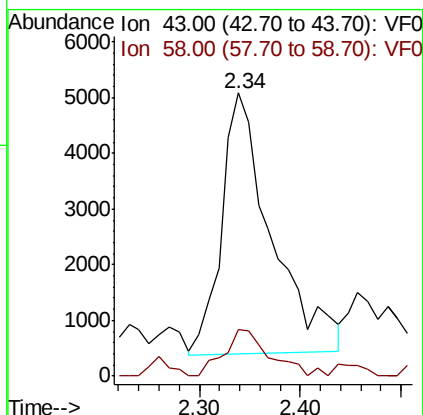
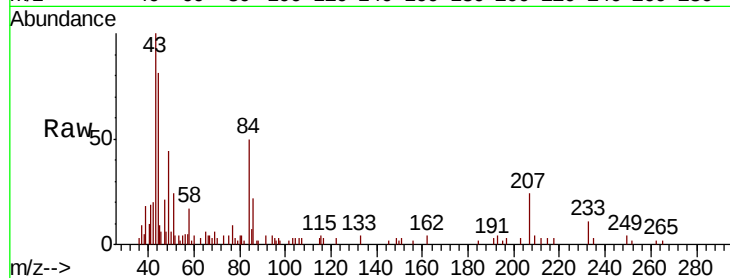




#16
Acetone
Concen: 31.691 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

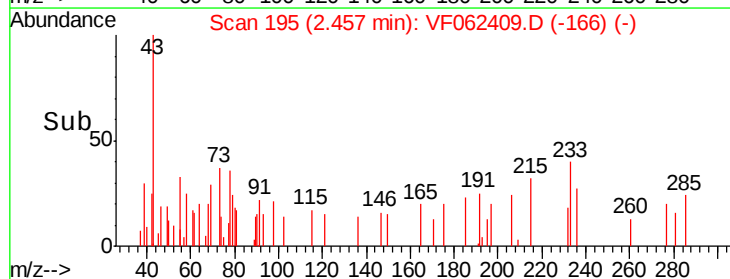
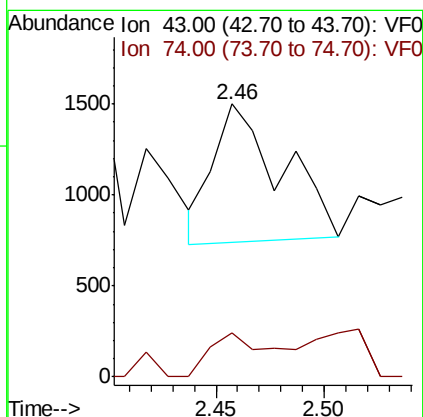
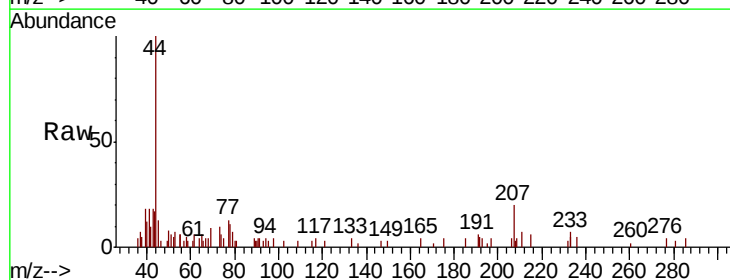
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-B

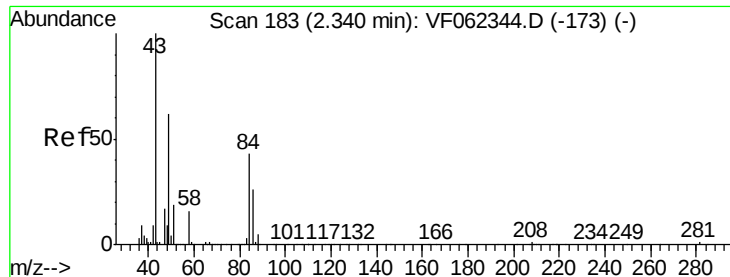
Tgt Ion: 43 Resp: 16130
Ion Ratio Lower Upper
43 100
58 18.1 13.1 19.7



#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
74 31.0 15.0 22.4#

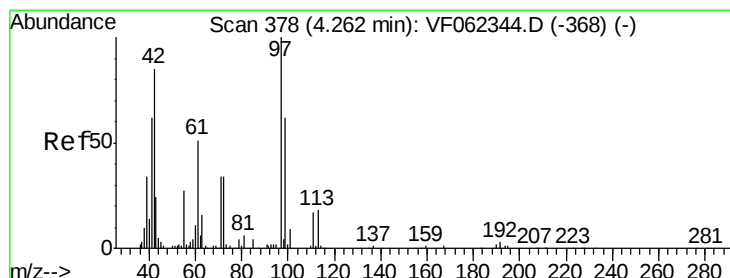
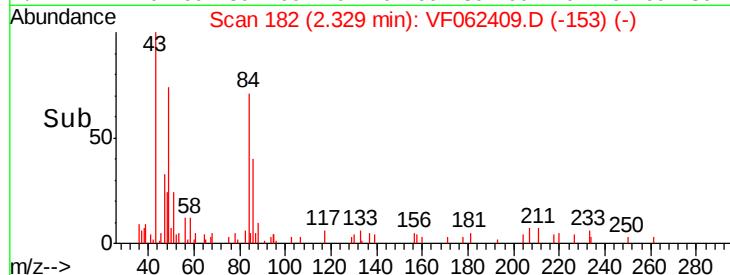
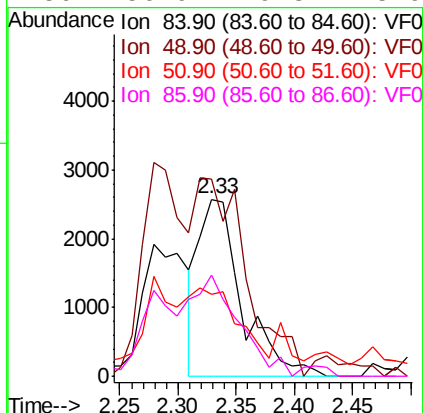
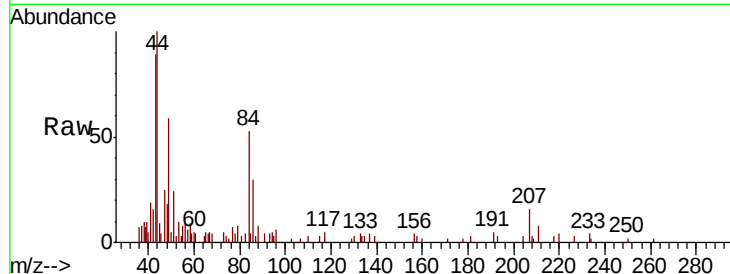




#20
Methylene Chloride
Concen: 3.600 ug/l
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

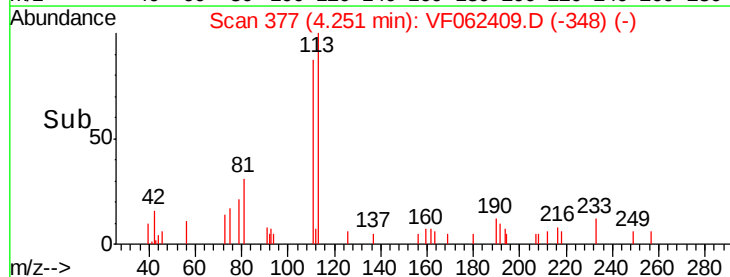
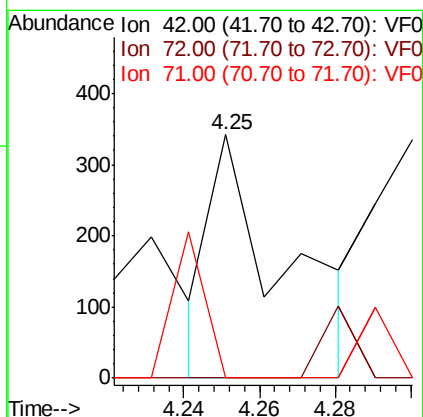
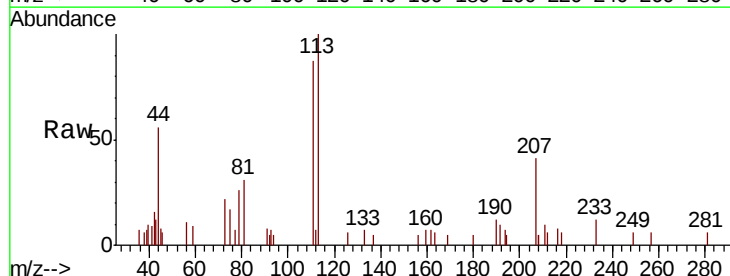
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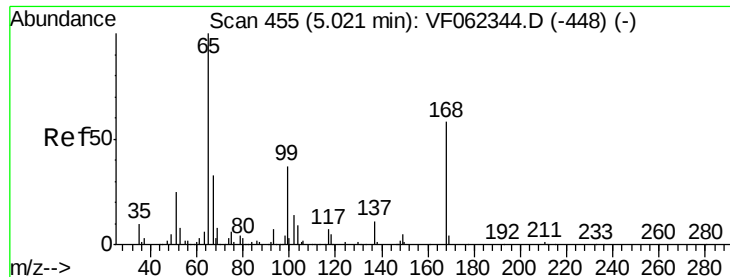
Tgt Ion: 84 Resp: 6630
Ion Ratio Lower Upper
84 100
49 105.4 117.5 176.3#
51 35.8 37.0 55.4#
86 56.9 49.3 73.9



#29
Tetrahydrofuran
Concen: 1.575 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.01 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

Tgt Ion: 42 Resp: 463
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 26.3 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 78.879 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

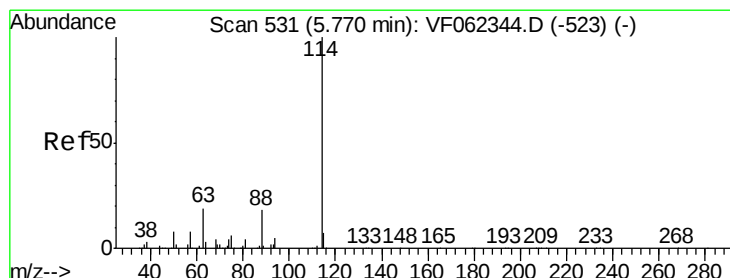
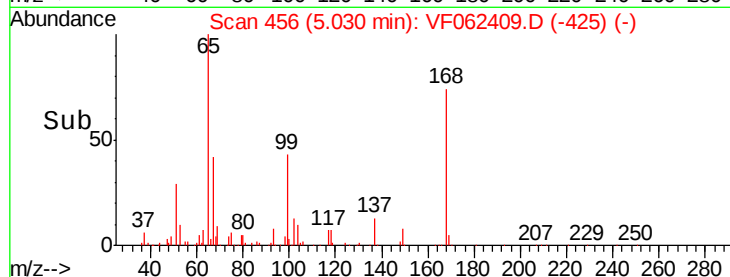
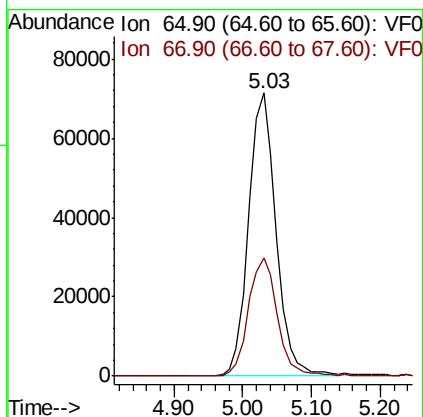
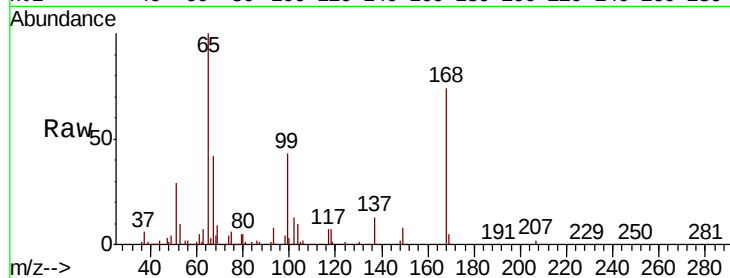
PL-02-050719-B

Tgt Ion: 65 Resp: 198461

Ion Ratio Lower Upper

65 100

67 44.1 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.00 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

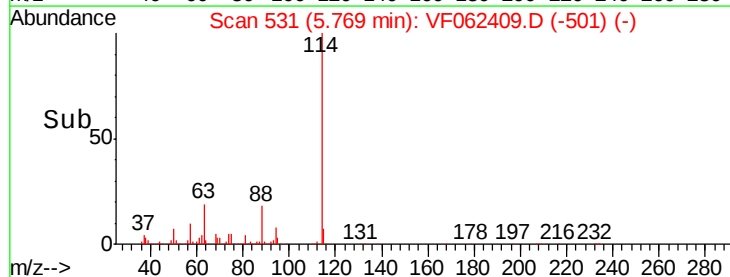
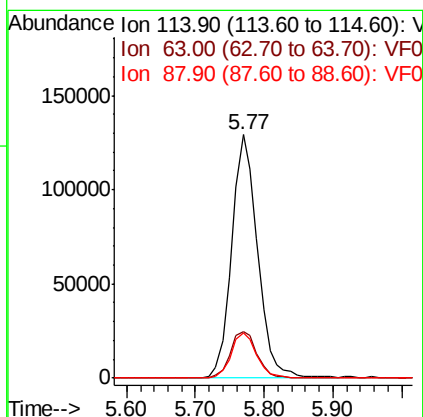
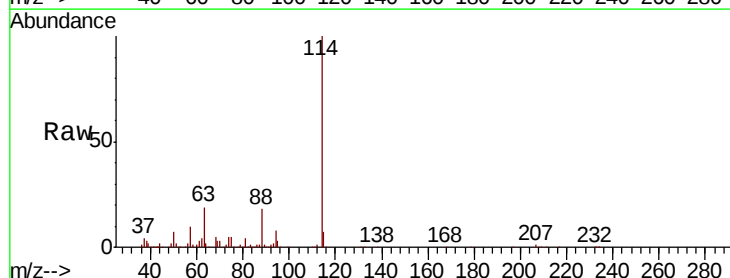
Tgt Ion: 114 Resp: 336439

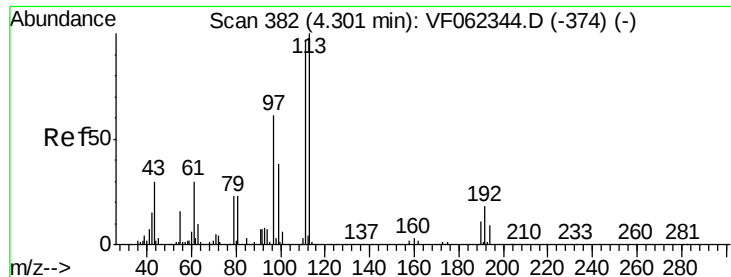
Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.4

88 18.4 0.0 36.4

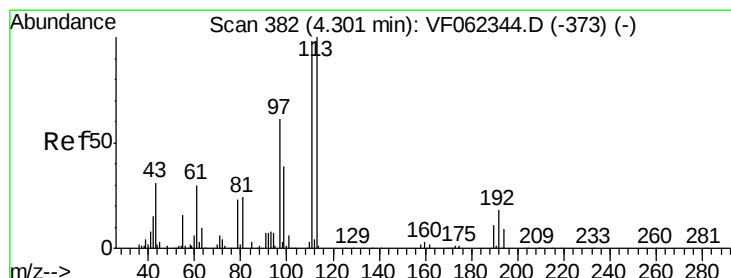
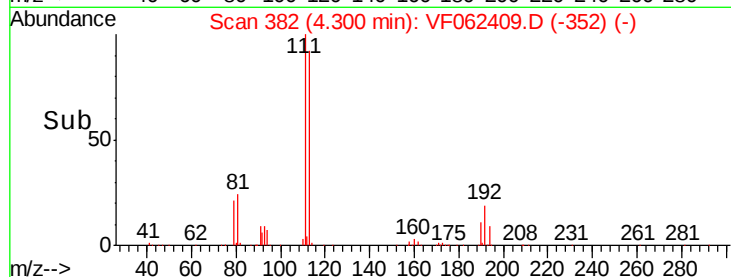
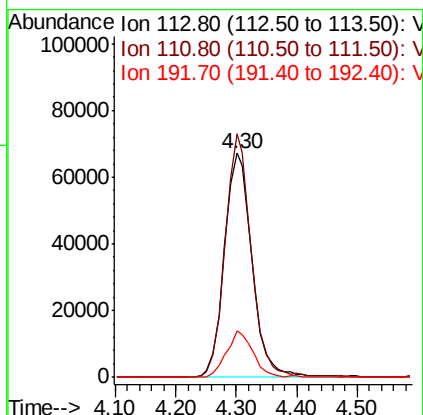
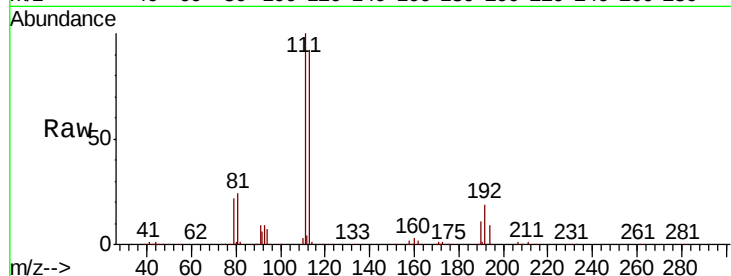




#35
 Dibromofluoromethane
 Concen: 79.593 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VF062409.D
 Acq: 9 May 2019 21:30

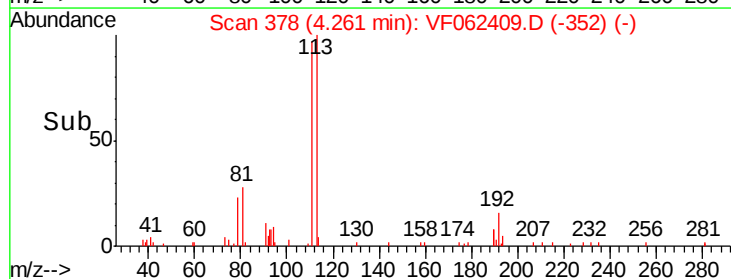
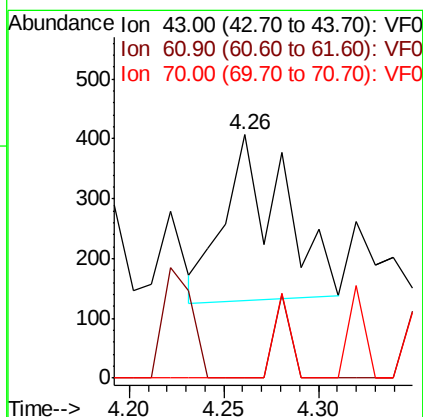
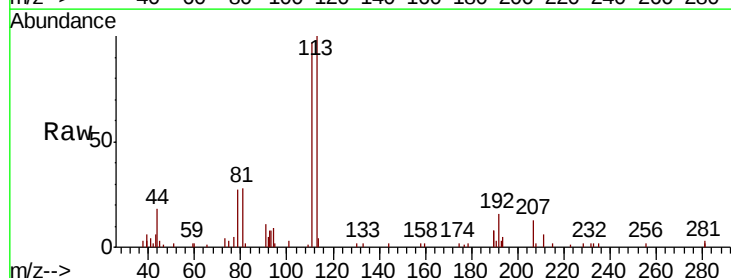
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 MSVOA_F
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 PL-02-050719-B

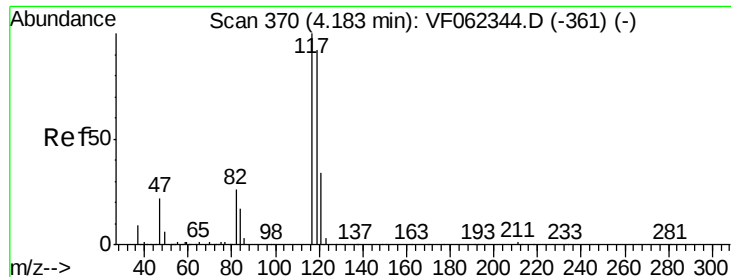
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	79.4	119.0
192	19.8	16.0	24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.26 min Scan# 378
 Delta R.T. -0.04 min
 Lab File: VF062409.D
 Acq: 9 May 2019 21:30

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.9	0.0	0.0#
70	14.3	8.2	12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.18 min Scan# 370

Delta R.T. -0.00 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-B

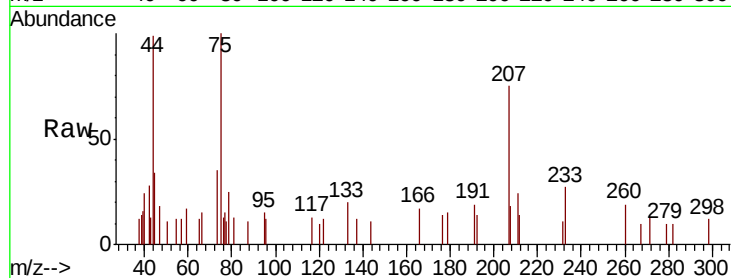
Tgt Ion:117 Resp: 79

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

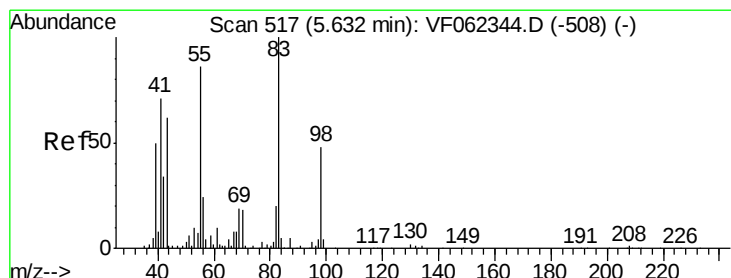
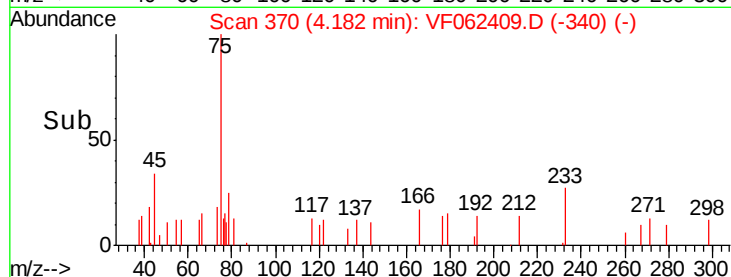
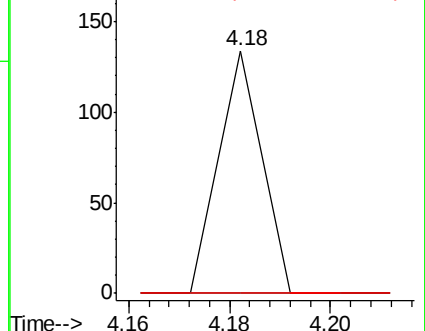
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.675 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.14 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

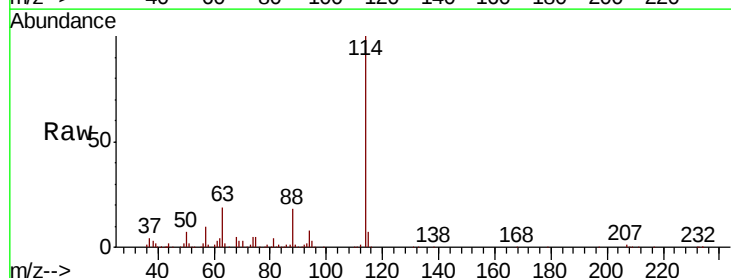
Tgt Ion: 83 Resp: 4855

Ion Ratio Lower Upper

83 100

55 26.8 69.0 103.6#

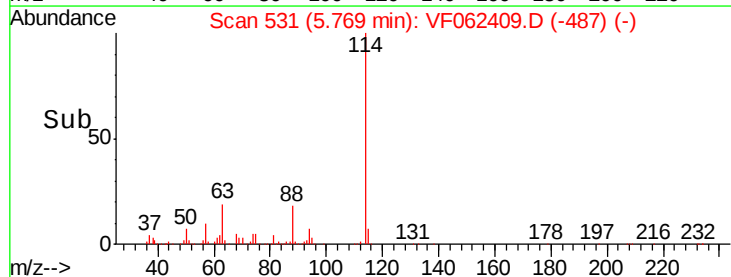
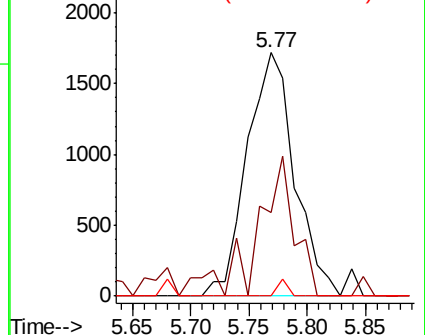
98 0.0 38.6 58.0#

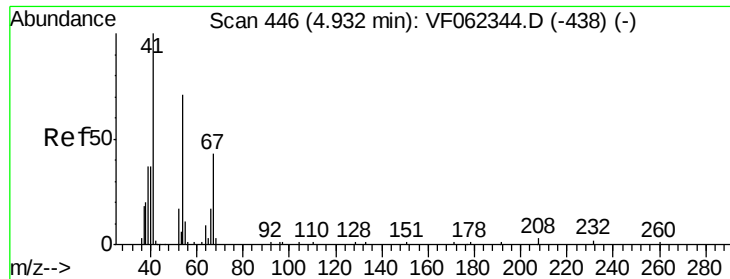


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 1.429 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.02 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-B

Tgt Ion: 41 Resp: 990

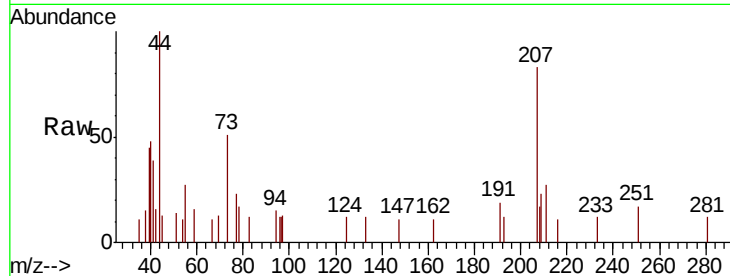
Ion Ratio Lower Upper

41 100

39 43.3 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

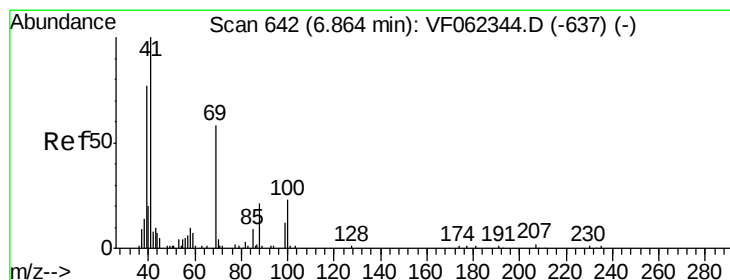
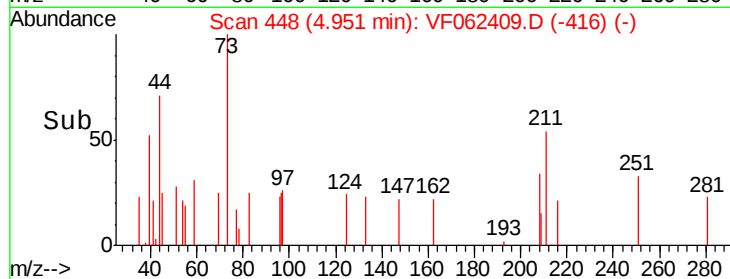
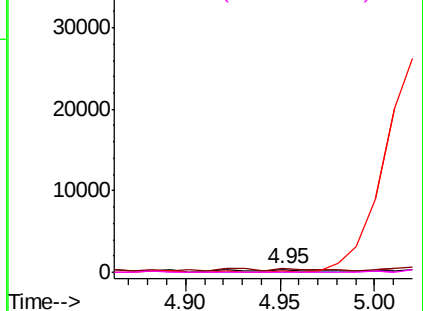


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.95 min Scan# 651

Delta R.T. 0.09 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

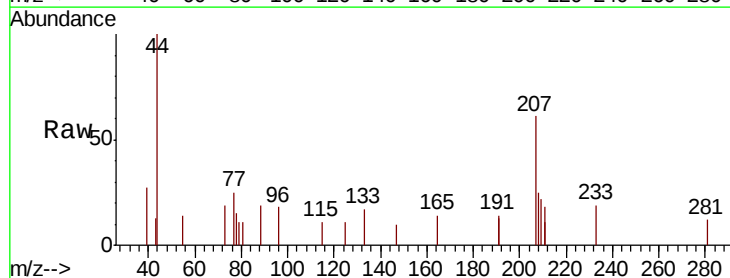
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 215.7 55.6 83.4#

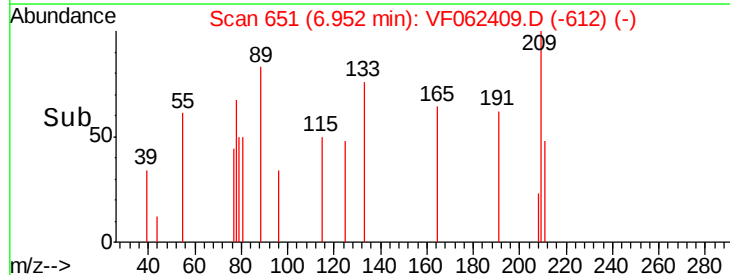
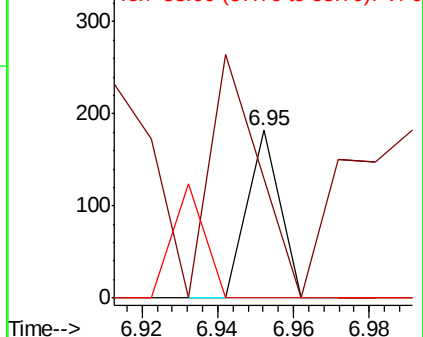
58 67.6 52.8 79.2

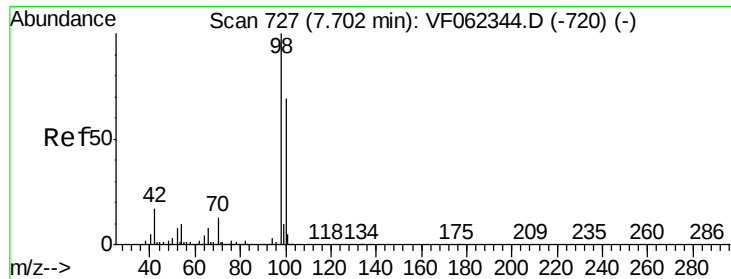


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 5.474 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

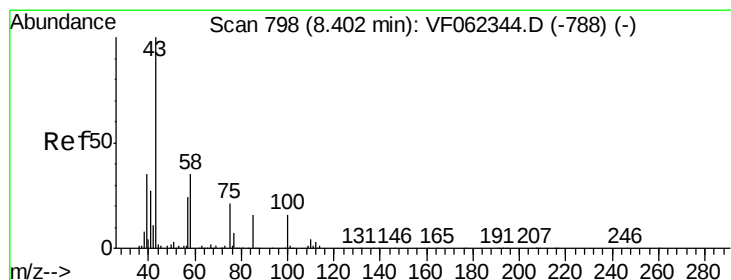
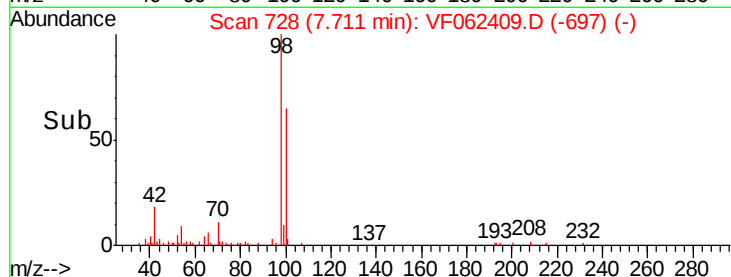
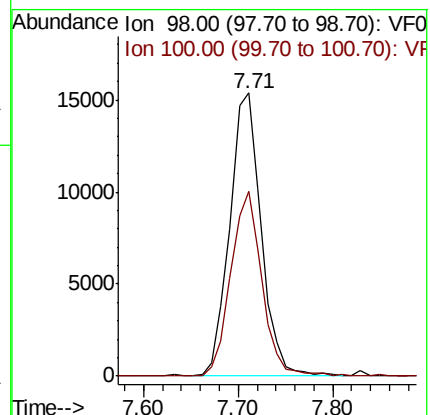
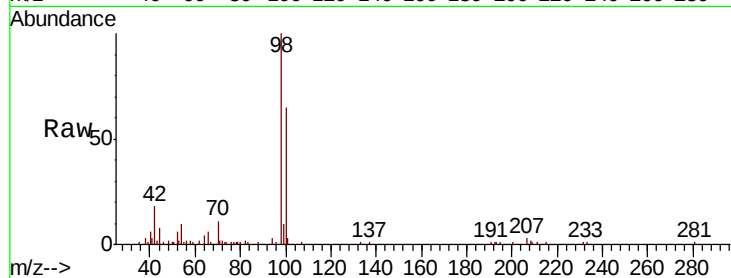
PL-02-050719-B

Tgt Ion: 98 Resp: 35515

Ion Ratio Lower Upper

98 100

100 64.6 53.3 79.9



#51

4-Methyl-2-Pentanone

Concen: 1.275 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.04 min

Lab File: VF062409.D

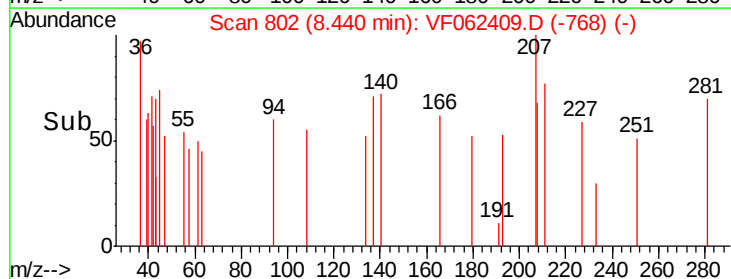
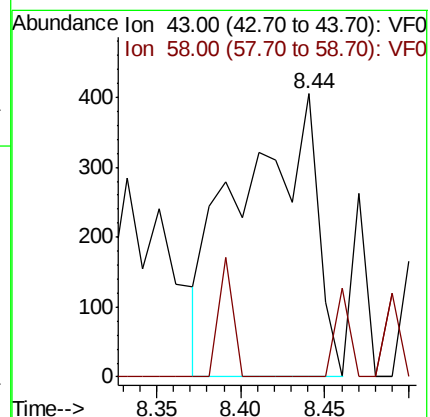
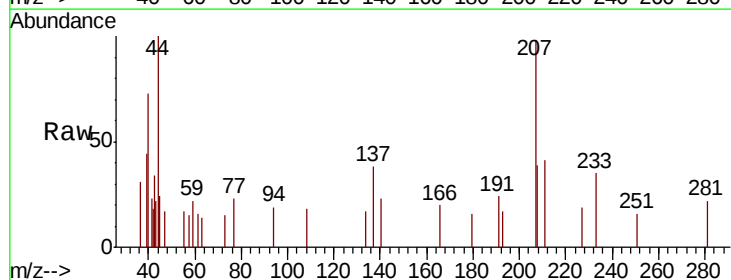
Acq: 9 May 2019 21:30

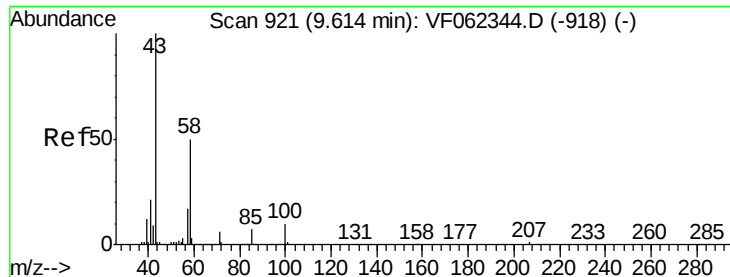
Tgt Ion: 43 Resp: 1270

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#

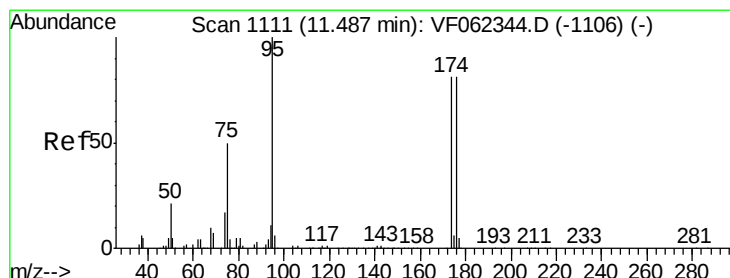
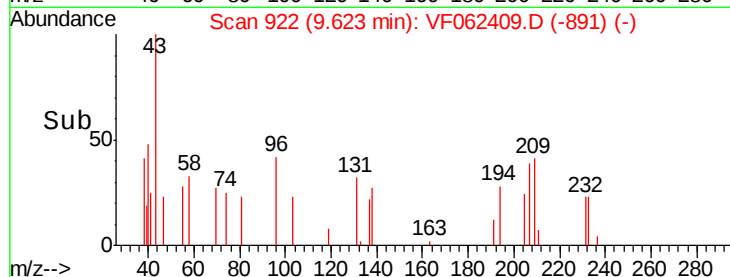
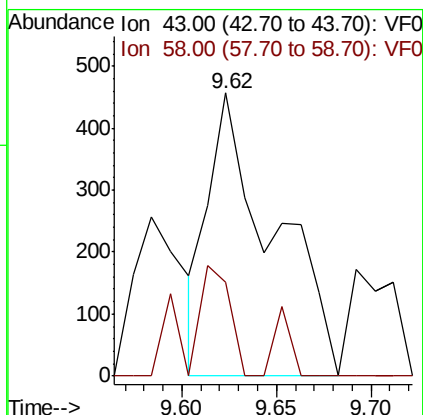
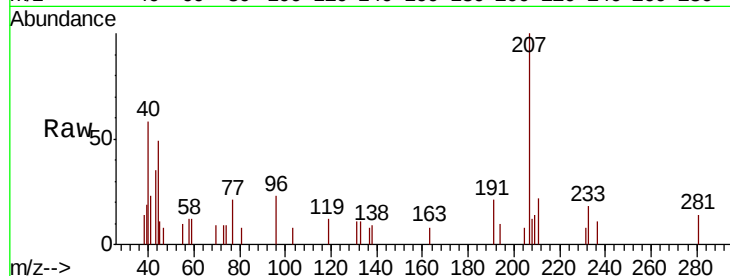




#59
2-Hexanone
Concen: 1.585 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

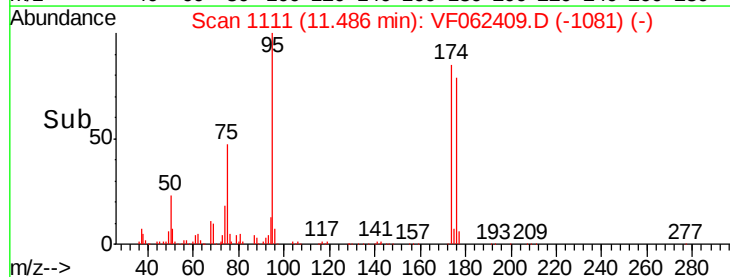
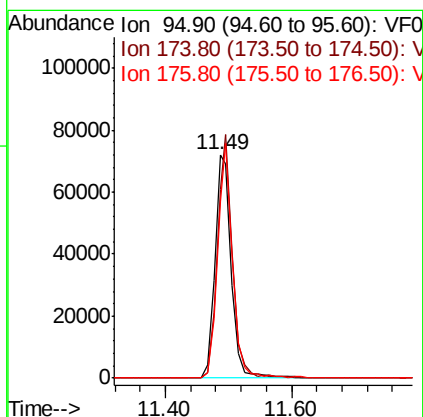
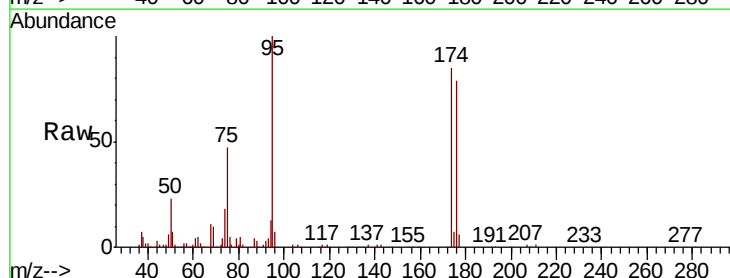
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-B

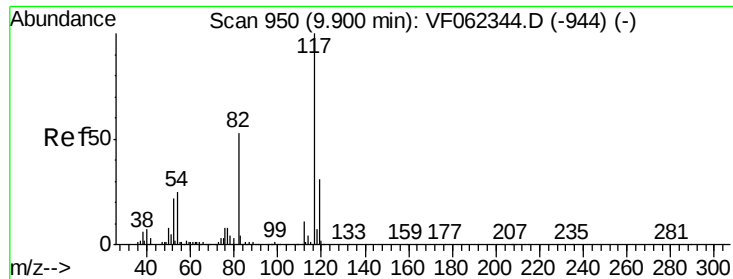
Tgt Ion: 43 Resp: 1092
Ion Ratio Lower Upper
43 100
58 25.0 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 45.359 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

Tgt Ion: 95 Resp: 132777
Ion Ratio Lower Upper
95 100
174 100.0 0.0 191.8
176 95.7 0.0 193.2

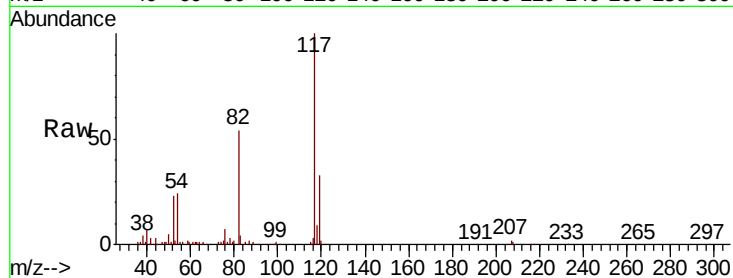




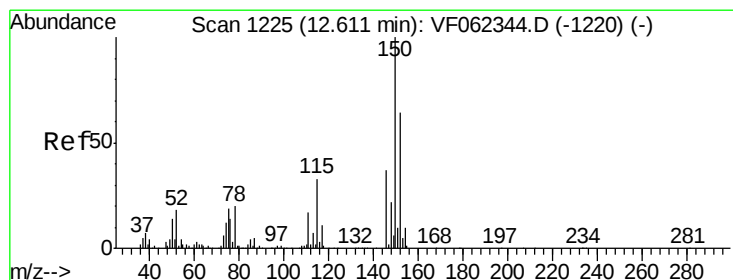
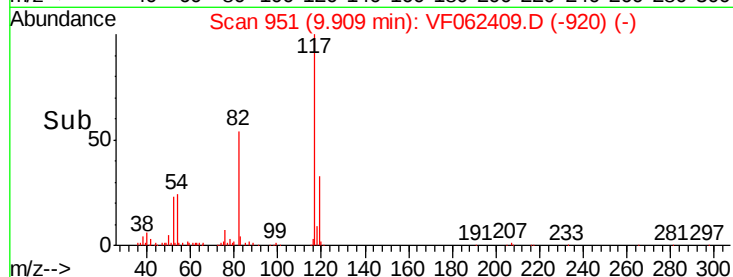
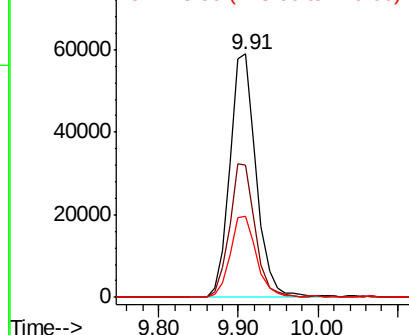
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. 0.01 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-B

Tgt Ion:117 Resp: 137030
Ion Ratio Lower Upper
117 100
82 54.5 42.2 63.2
119 33.4 25.0 37.4

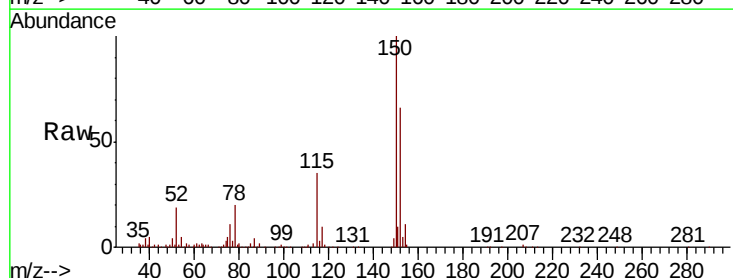


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

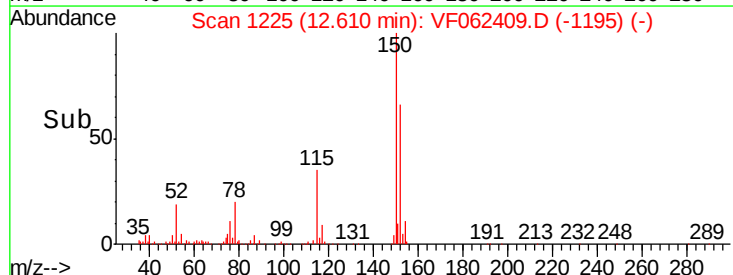
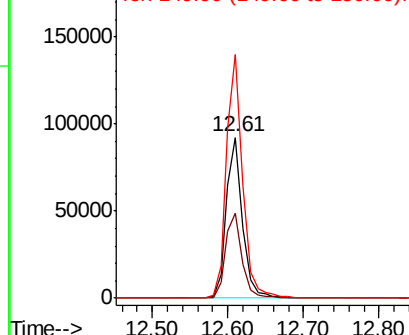


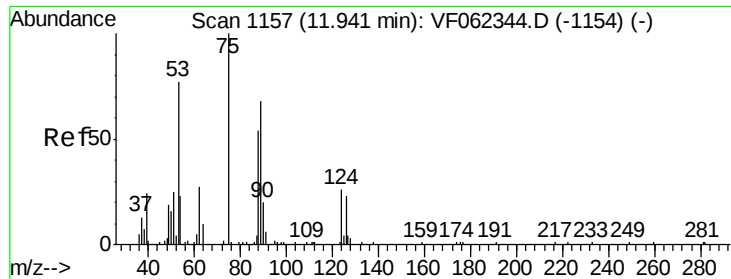
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VF062409.D
Acq: 9 May 2019 21:30

Tgt Ion:152 Resp: 136416
Ion Ratio Lower Upper
152 100
115 54.7 26.4 79.2
150 151.9 0.0 335.0



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: 1.261 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062409.D

Acq: 9 May 2019 21:30

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-B

Tgt Ion: 75 Resp: 458

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 0.0 0.0 0.0

