

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051019\
 Data File : VF062430.D
 Acq On : 10 May 2019 18:23
 Operator : FY/SY
 Sample : K2645-09RE
 Misc : 7.04g/5mL/MSVOA_F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: May 10 18:44:02 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	5.04	168	116133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	105285	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	52402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	16532	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	20152	18.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.72%	
35) Dibromofluoromethane	4.30	113	30482	36.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.68%	
50) Toluene-d8	7.71	98	87038	42.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.74%	
62) 4-Bromofluorobenzene	11.49	95	20153	22.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	44.00%	

Target Compounds

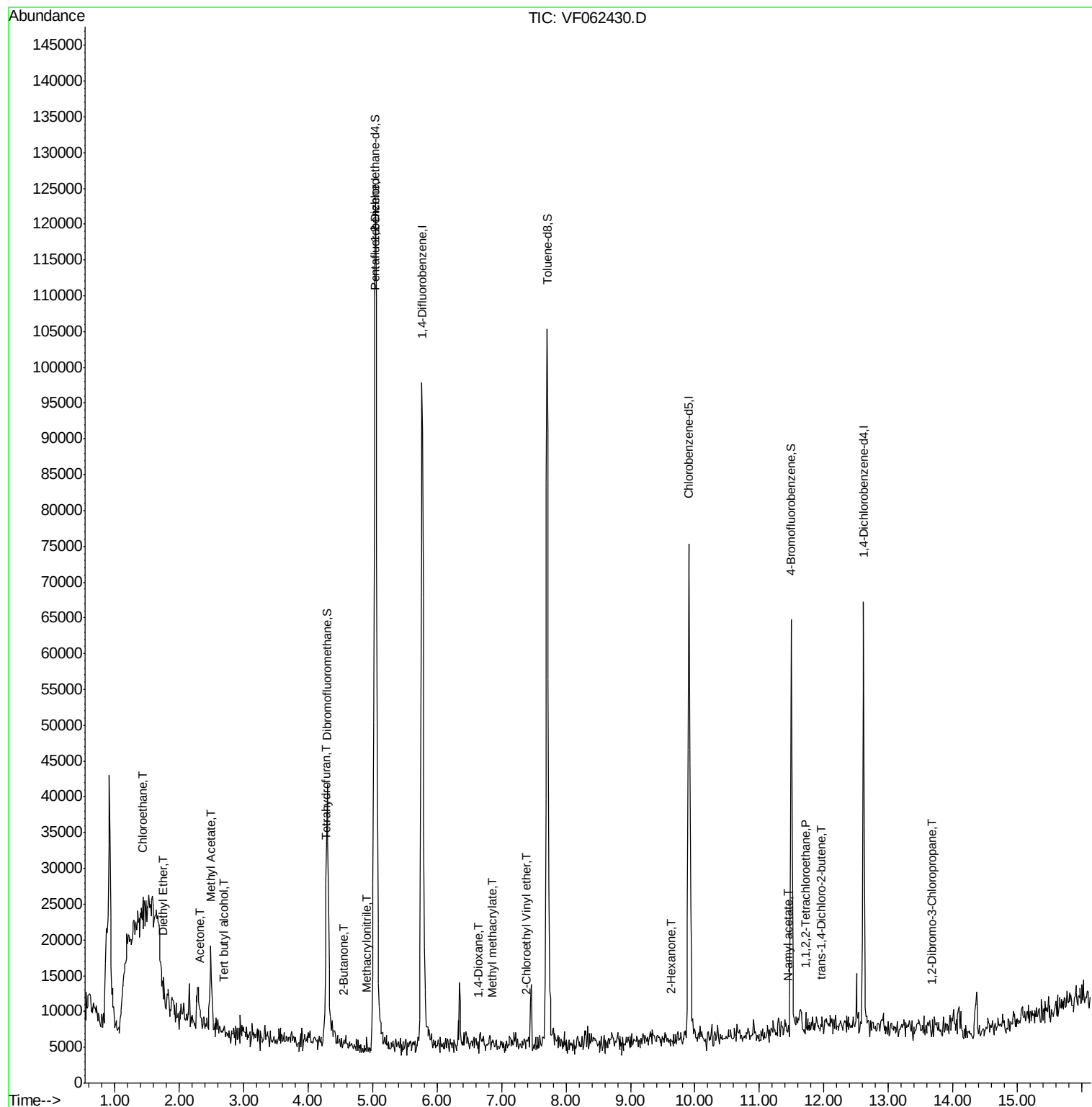
					Qvalue	
5) Bromomethane	1.36	94	703	Below Cal	#	61
6) Chloroethane	1.43	64	445	1.001	ug/l #	70
8) Diethyl Ether	1.74	74	280	1.009	ug/l	59
11) Tert butyl alcohol	2.70	59	141	2.273	ug/l #	70
13) Acrolein	2.15	56	307	Below Cal	#	1
16) Acetone	2.32	43	1949	8.779	ug/l	99
18) Methyl Acetate	2.49	43	4615	8.819	ug/l #	58
25) 2-Butanone	4.56	43	514	1.843	ug/l #	60
29) Tetrahydrofuran	4.27	42	163	1.272	ug/l #	56
37) Ethyl Acetate	4.26	43	368	Below Cal	#	73
38) Carbon Tetrachloride	4.20	117	82	Below Cal	#	14
41) Methacrylonitrile	4.92	41	358	1.651	ug/l #	34
48) Methyl methacrylate	6.85	41	567	1.950	ug/l #	23
49) 1,4-Dioxane	6.64	88	62	7.770	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.40	63	173	1.398	ug/l #	42
59) 2-Hexanone	9.63	43	1270	5.891	ug/l #	36
74) N-amyl acetate	11.45	43	397	1.887	ug/l #	30
75) 1,1,2,2-Tetrachloroethane	11.73	83	333	2.170	ug/l #	56
81) trans-1,4-Dichloro-2-buten	11.94	75	144	3.272	ug/l #	51
92) 1,2-Dibromo-3-Chloropropan	13.67	75	60	1.745	ug/l #	28

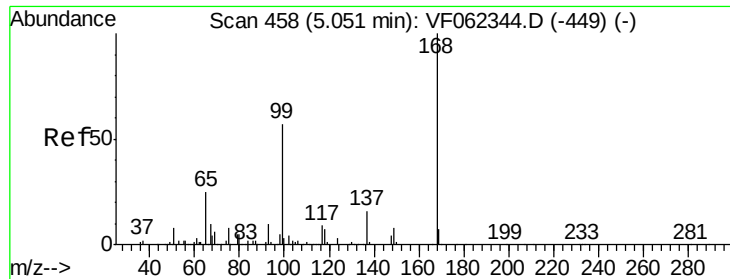
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_F\DATA\VF051019\
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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

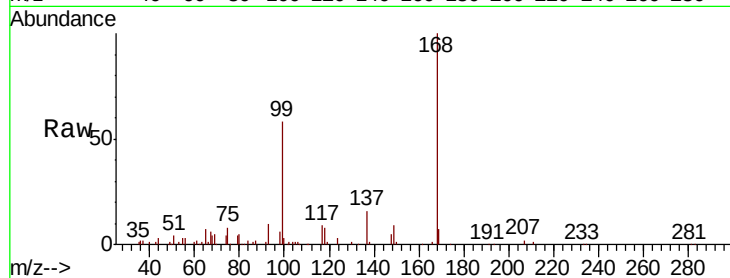
PL-02-050719-ERE

Tgt Ion:168 Resp: 116133

Ion Ratio Lower Upper

168 100

99 58.5 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.04

40000

30000

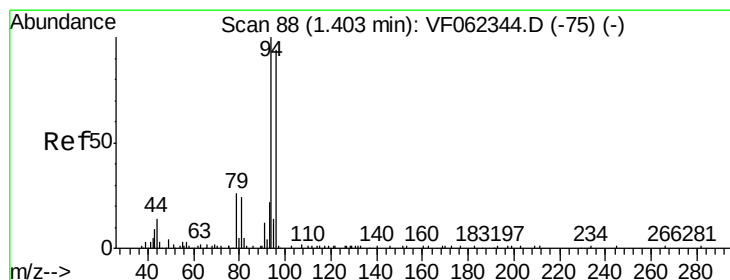
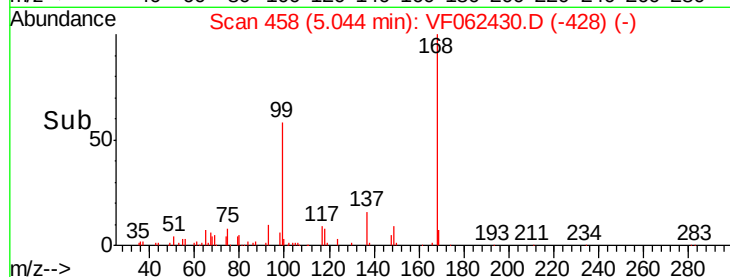
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.36 min Scan# 84

Delta R.T. -0.05 min

Lab File: VF062430.D

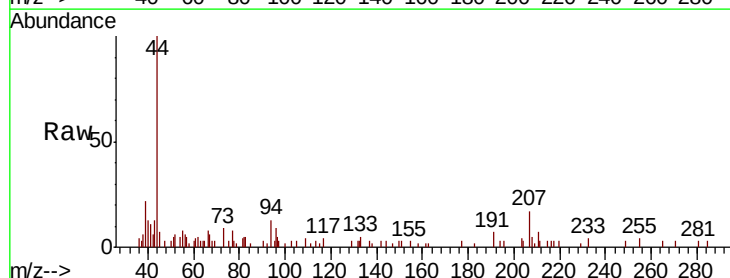
Acq: 10 May 2019 18:23

Tgt Ion: 94 Resp: 703

Ion Ratio Lower Upper

94 100

96 56.6 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.36

600

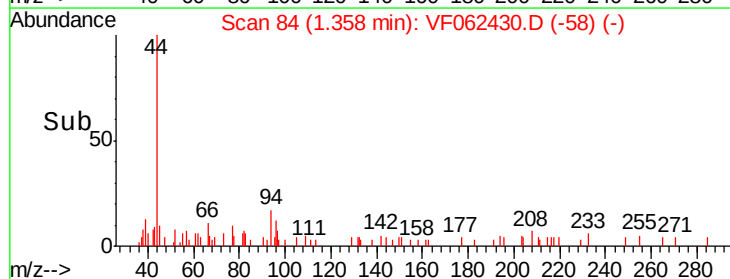
400

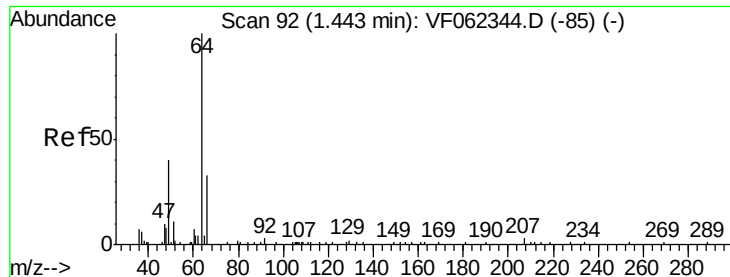
200

0

Time-->

1.30 1.35 1.40





#6

Chloroethane

Concen: 1.001 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.02 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

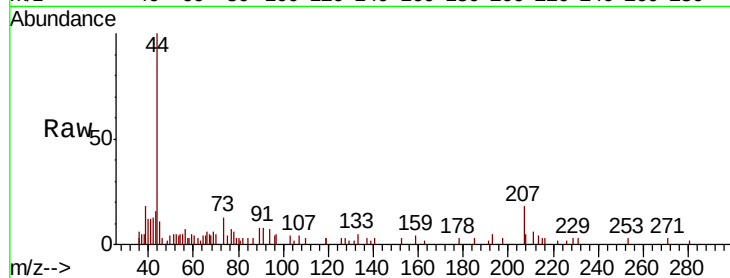
PL-02-050719-ERE

Tgt Ion: 64 Resp: 445

Ion Ratio Lower Upper

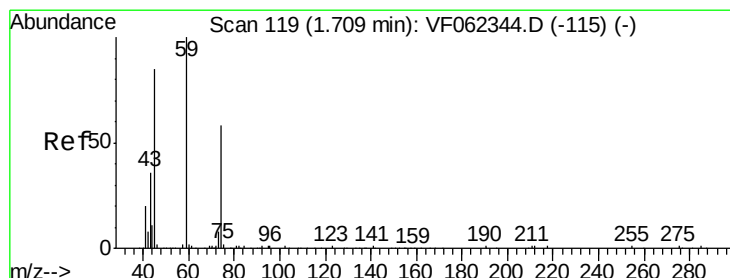
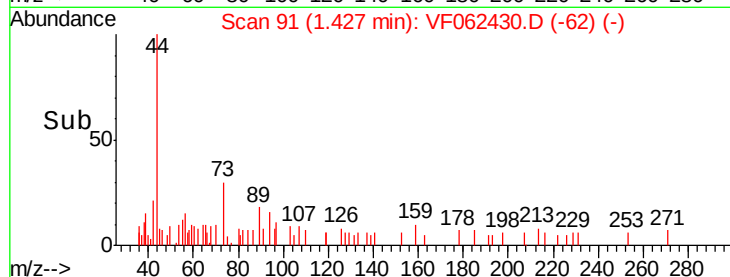
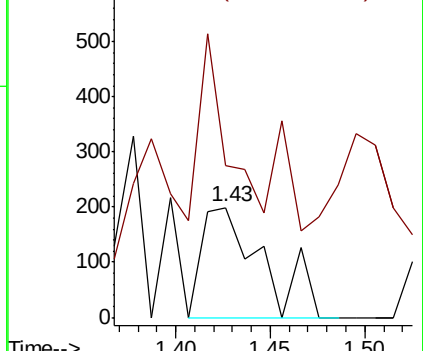
64 100

66 50.3 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



#8

Diethyl Ether

Concen: 1.009 ug/l

RT: 1.74 min Scan# 123

Delta R.T. 0.03 min

Lab File: VF062430.D

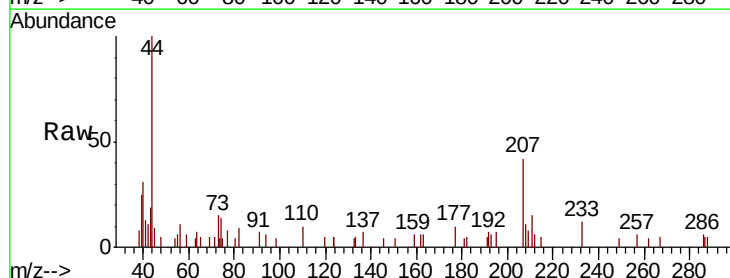
Acq: 10 May 2019 18:23

Tgt Ion: 74 Resp: 280

Ion Ratio Lower Upper

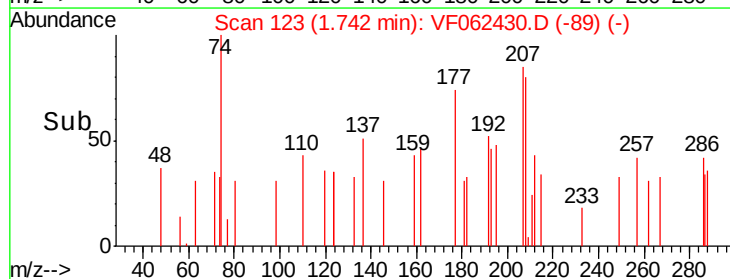
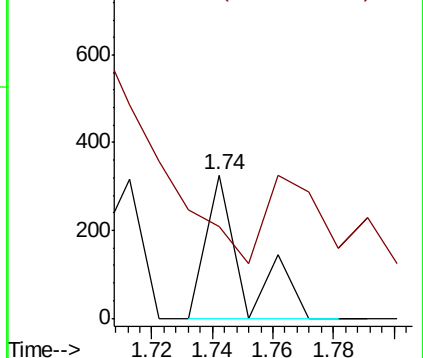
74 100

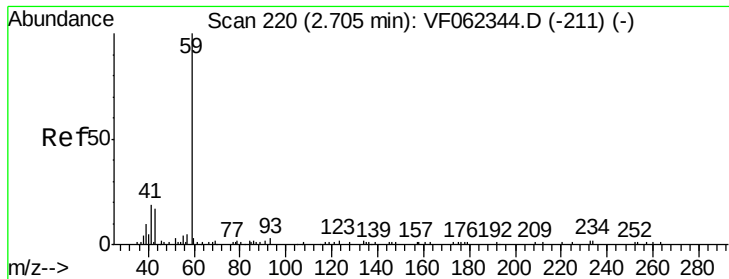
45 95.7 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

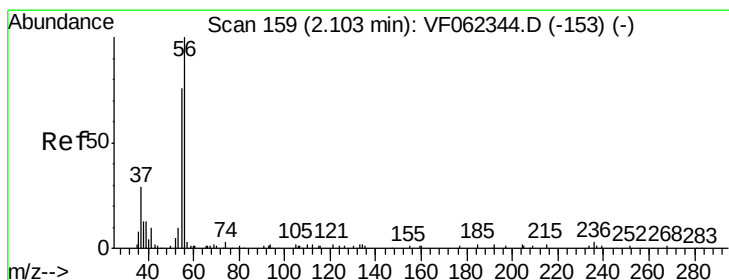
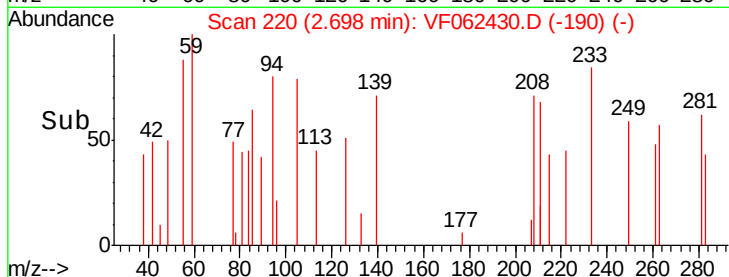
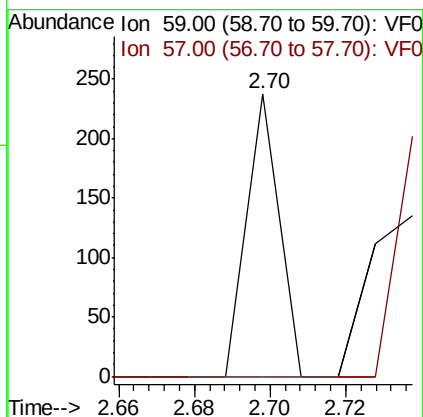
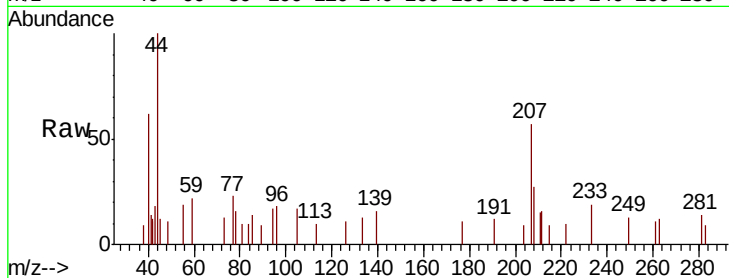




#11
Tert butyl alcohol
Concen: 2.273 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

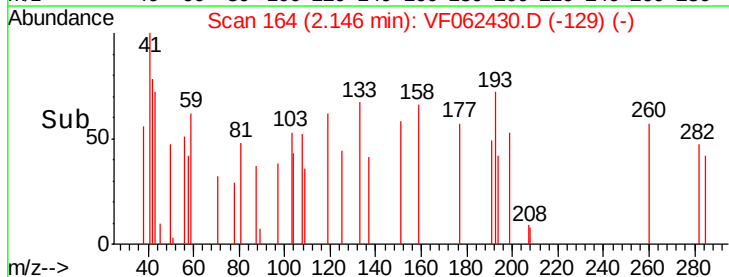
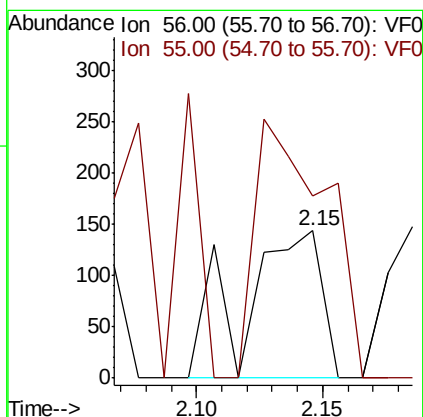
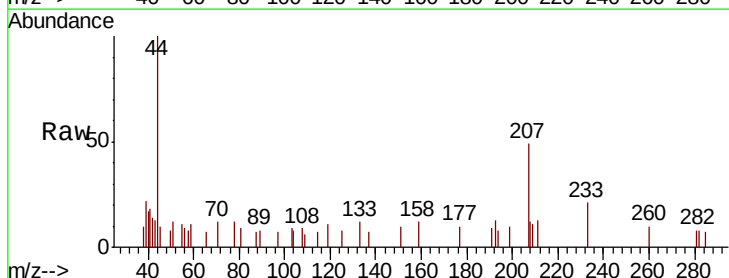
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-ERE

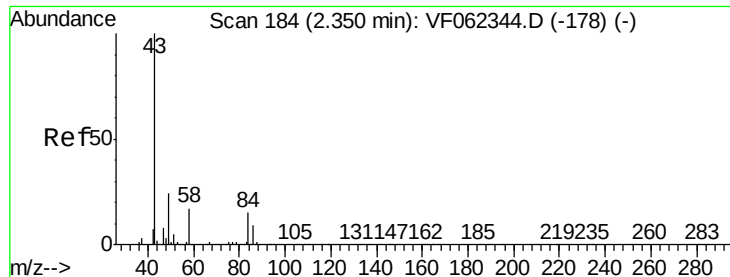
Tgt Ion: 59 Resp: 141
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#13
Acrolein
Concen: Below Cal
RT: 2.15 min Scan# 164
Delta R.T. 0.04 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

Tgt Ion: 56 Resp: 307
Ion Ratio Lower Upper
56 100
55 160.9 58.4 87.6#





#16

Acetone

Concen: 8.779 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.03 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

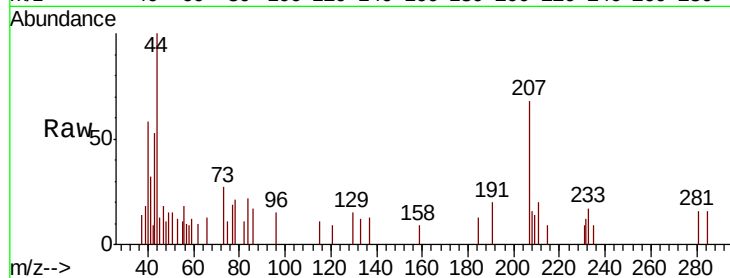
PL-02-050719-ERE

Tgt Ion: 43 Resp: 1949

Ion Ratio Lower Upper

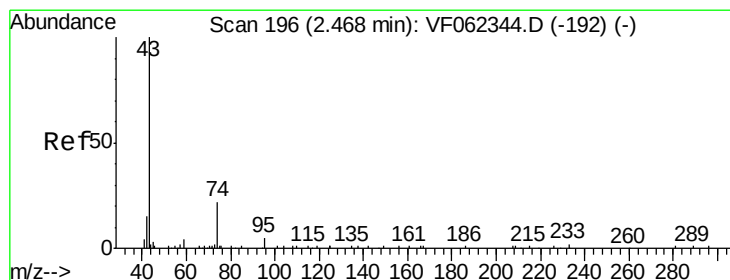
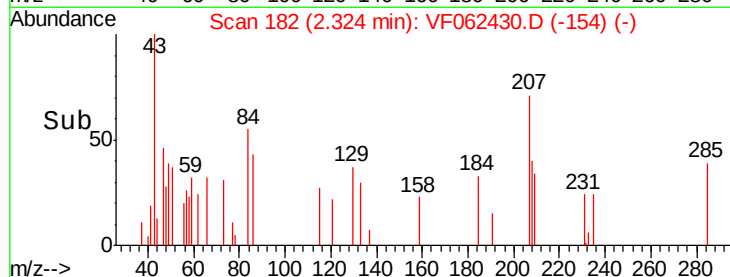
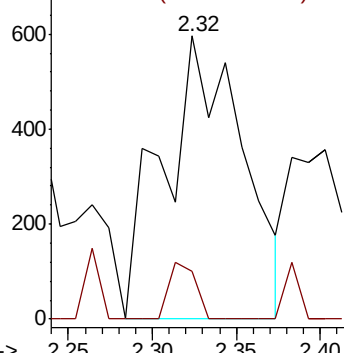
43 100

58 16.9 13.1 19.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 8.819 ug/l

RT: 2.49 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF062430.D

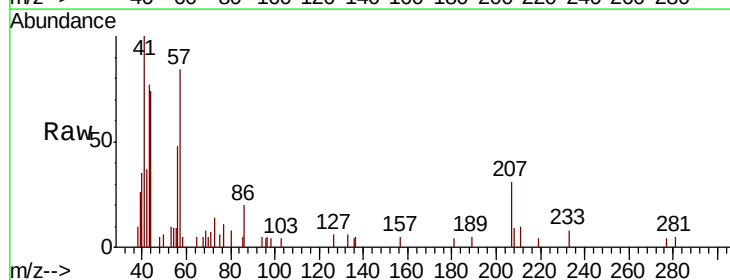
Acq: 10 May 2019 18:23

Tgt Ion: 43 Resp: 4615

Ion Ratio Lower Upper

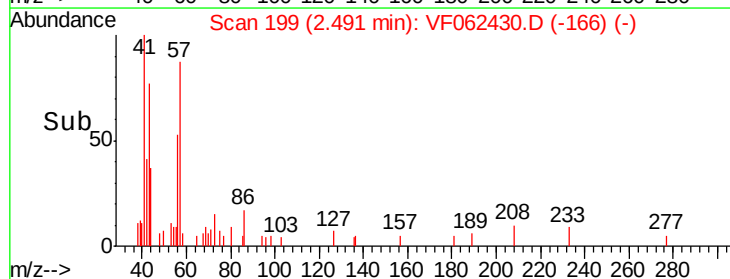
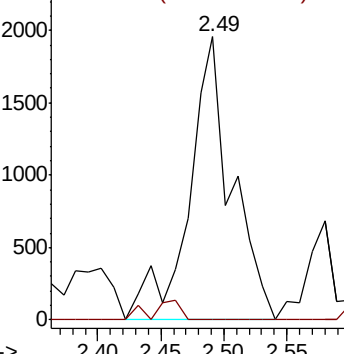
43 100

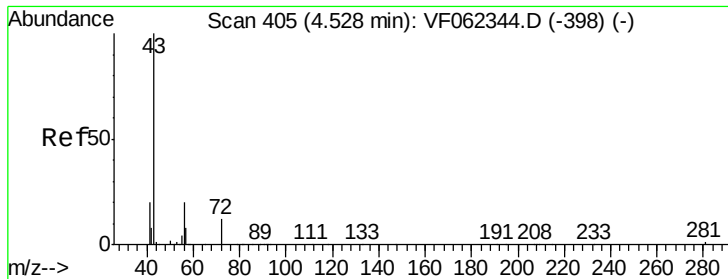
74 0.0 15.0 22.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





#25

2-Butanone

Concen: 1.843 ug/l

RT: 4.56 min Scan# 409

Delta R.T. 0.03 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

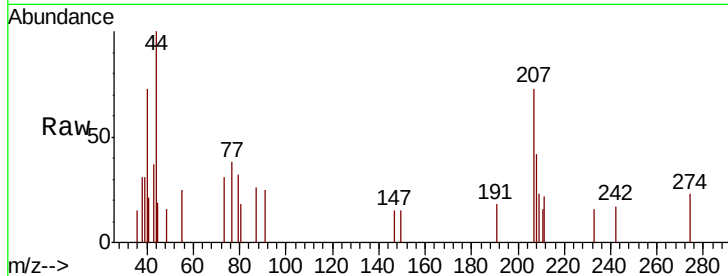
PL-02-050719-ERE

Tgt Ion: 43 Resp: 514

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.56

250

200

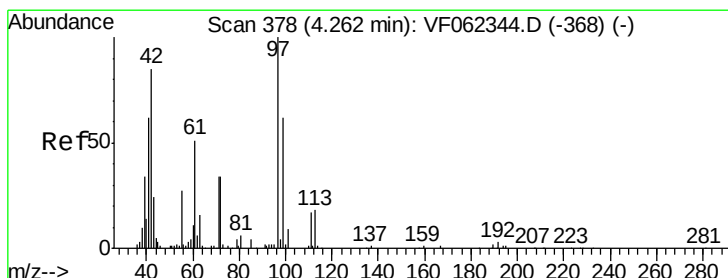
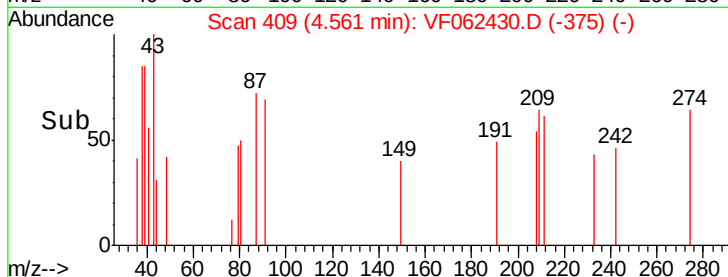
150

100

50

0

Time--> 4.50 4.55 4.60



#29

Tetrahydrofuran

Concen: 1.272 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

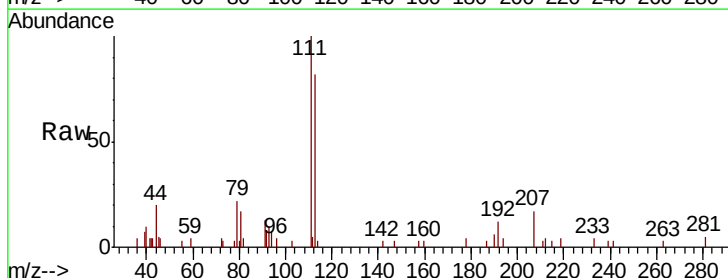
Tgt Ion: 42 Resp: 163

Ion Ratio Lower Upper

42 100

72 53.4 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

200

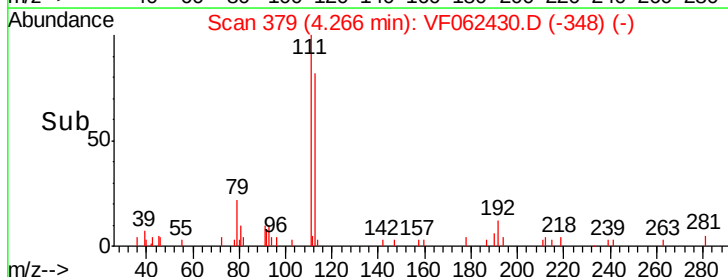
150

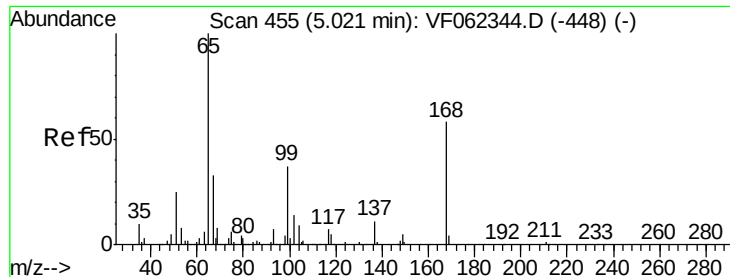
100

50

0

Time--> 4.24 4.26 4.28

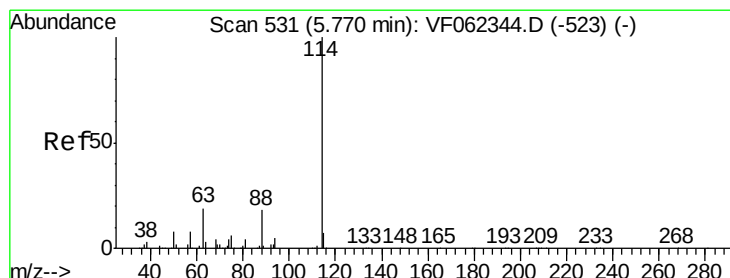
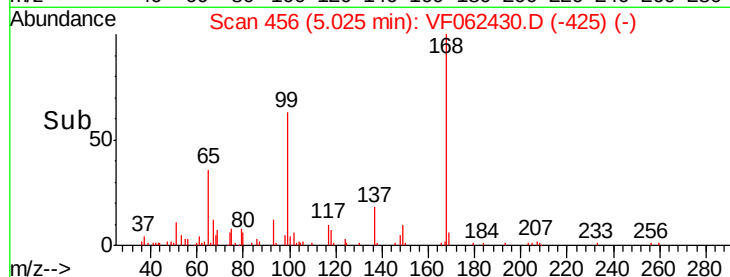
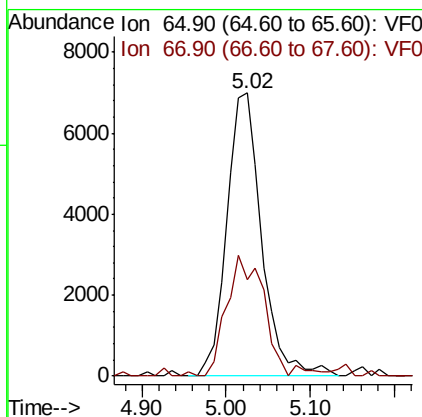
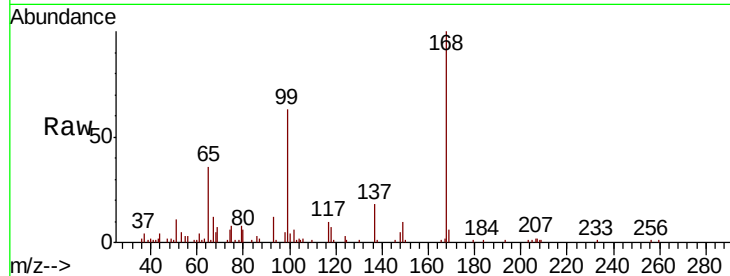




#33
 1,2-Dichloroethane-d4
 Concen: 18.362 ug/l
 RT: 5.02 min Scan# 456
 Delta R.T. 0.00 min
 Lab File: VF062430.D
 Acq: 10 May 2019 18:23

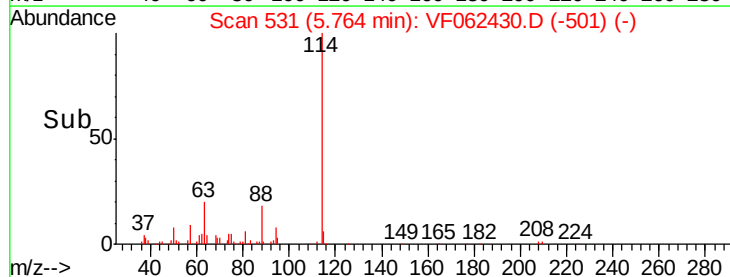
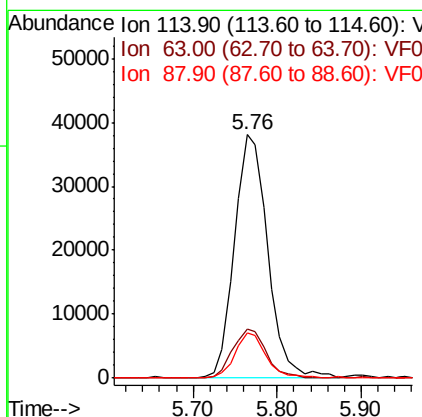
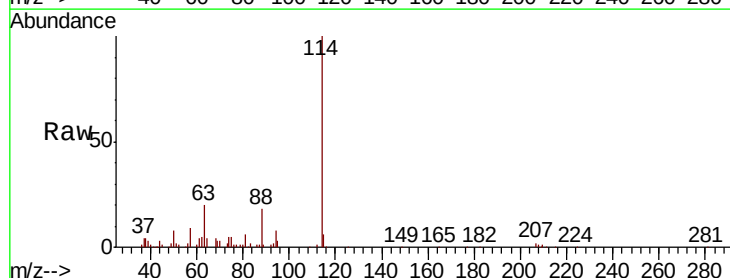
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 PL-02-050719-ERE

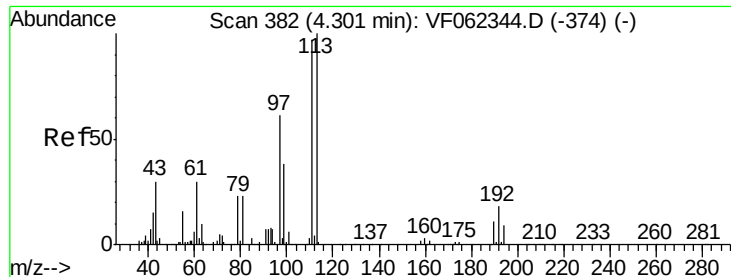
Tgt Ion: 65 Resp: 20152
 Ion Ratio Lower Upper
 65 100
 67 44.8 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF062430.D
 Acq: 10 May 2019 18:23

Tgt Ion: 114 Resp: 105285
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 37.4
 88 18.3 0.0 36.4

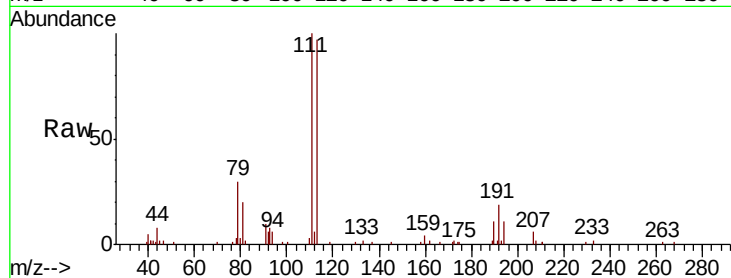




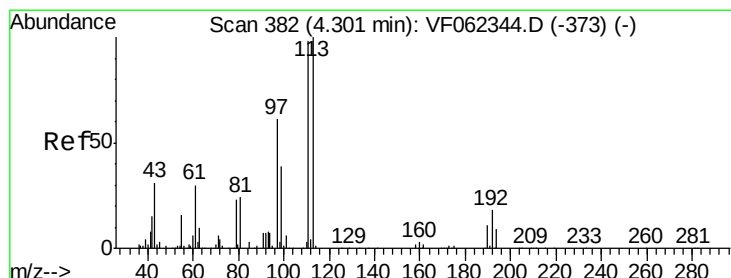
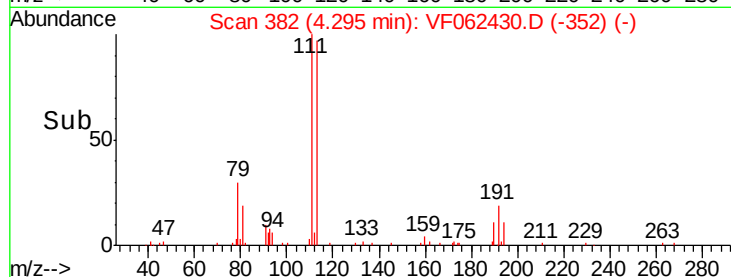
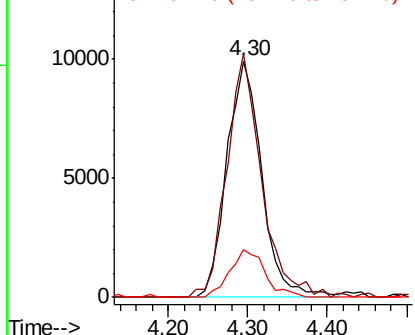
#35
Dibromofluoromethane
Concen: 36.341 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

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

Tgt Ion:113 Resp: 30482
Ion Ratio Lower Upper
113 100
111 102.7 79.4 119.0
192 20.1 16.0 24.0

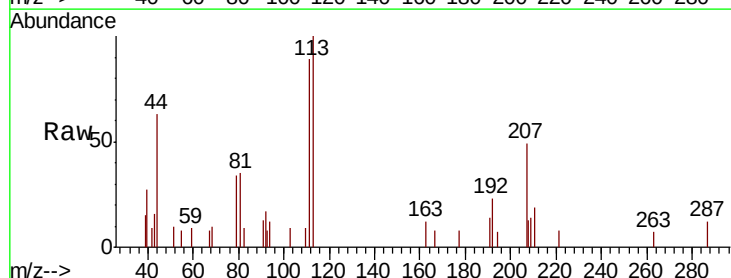


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

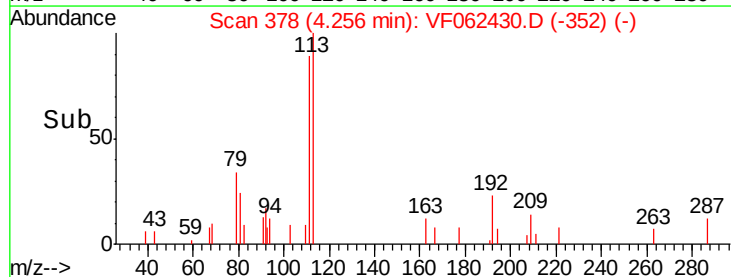
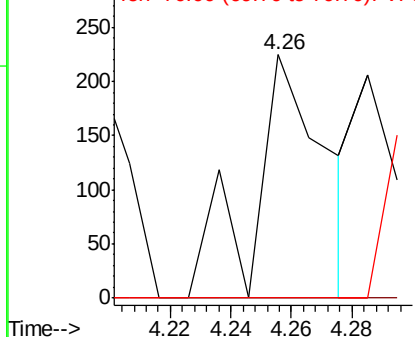


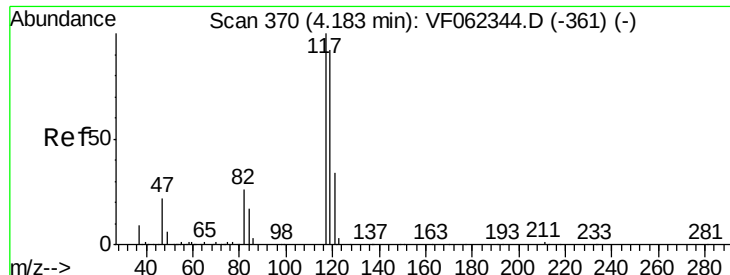
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. -0.05 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

Tgt Ion: 43 Resp: 368
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.20 min Scan# 372

Delta R.T. 0.01 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-ERE

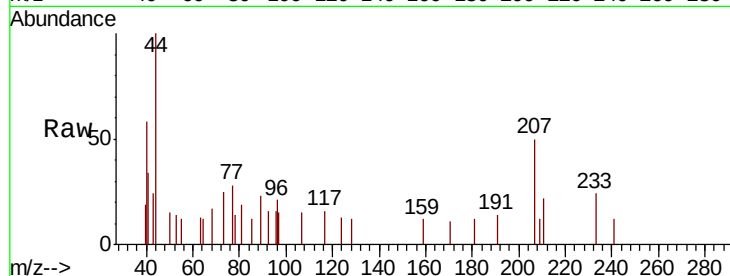
Tgt Ion: 117 Resp: 82

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

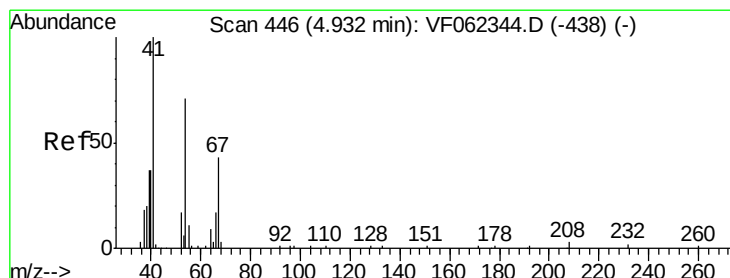
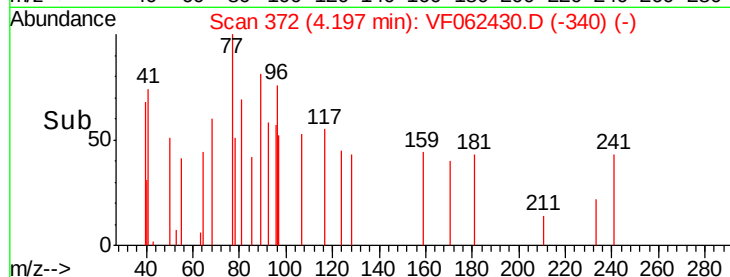
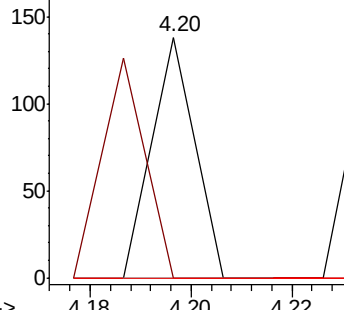
121 0.0 27.4 41.0#



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



#41

Methacrylonitrile

Concen: 1.651 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Tgt Ion: 41 Resp: 358

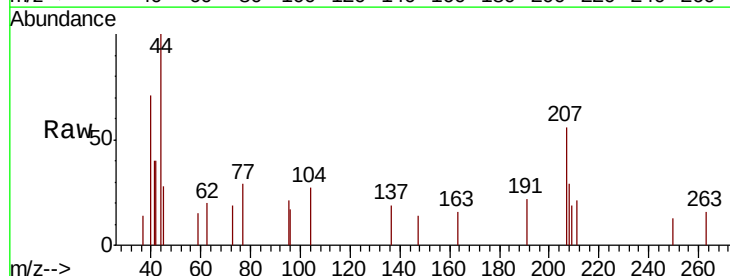
Ion Ratio Lower Upper

41 100

39 118.7 54.3 81.5#

67 0.0 37.8 56.8#

52 17.6 58.2 87.4#

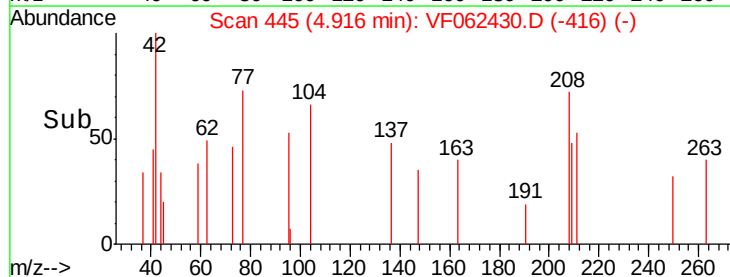
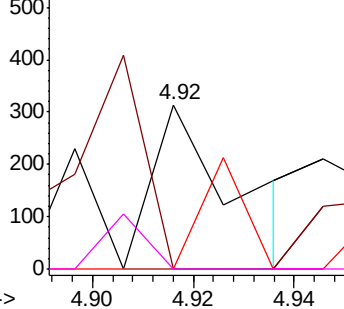


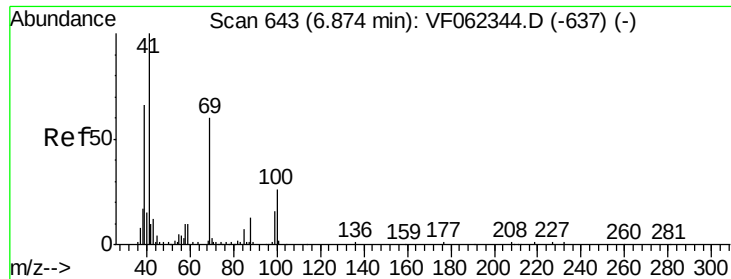
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

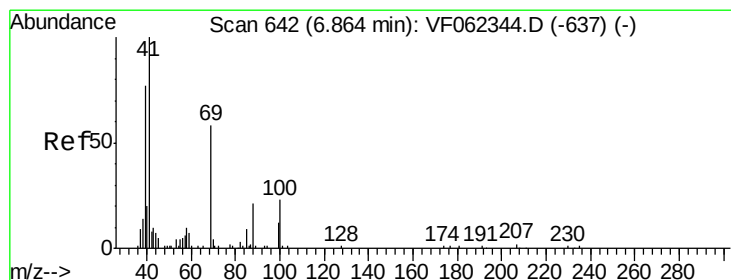
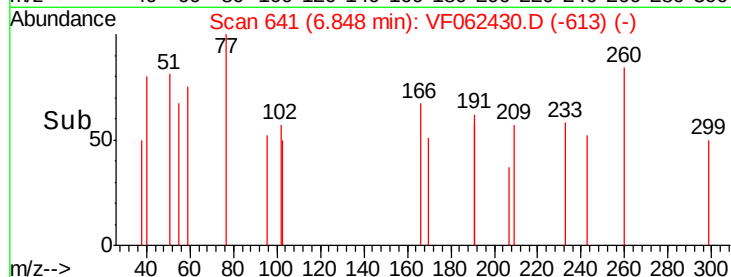
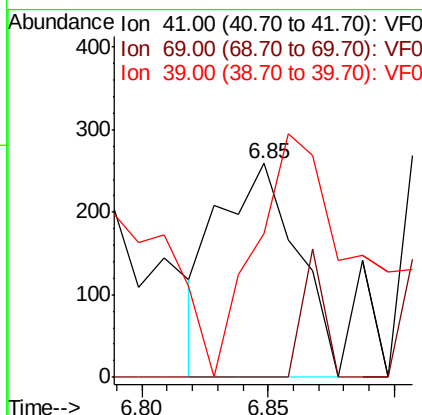
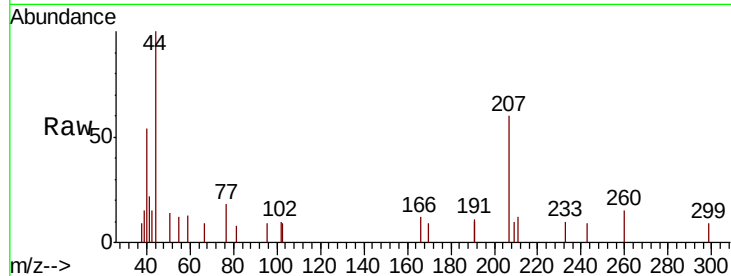




#48
Methyl methacrylate
Concen: 1.950 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.03 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

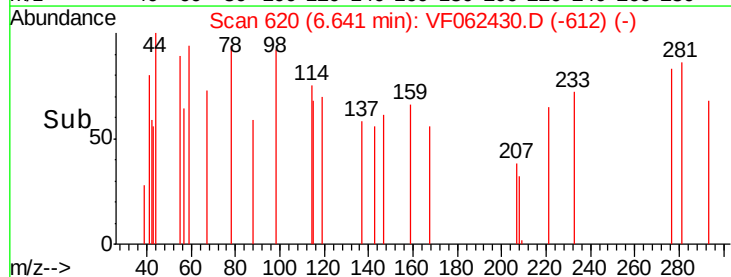
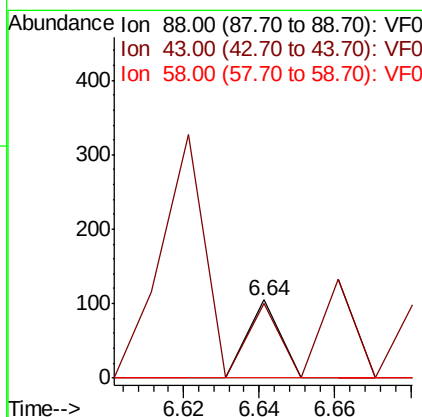
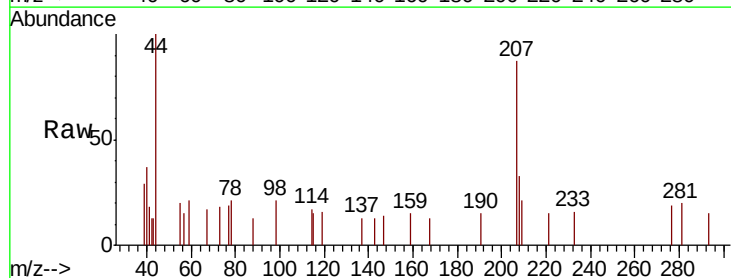
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-ERE

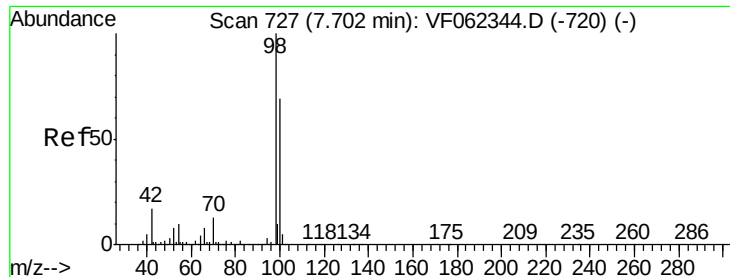
Tgt Ion: 41 Resp: 567
Ion Ratio Lower Upper
41 100
69 16.2 48.6 72.8#
39 147.3 56.1 84.1#



#49
1,4-Dioxane
Concen: 7.770 ug/l
RT: 6.64 min Scan# 620
Delta R.T. -0.22 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 222.6 55.6 83.4#
58 0.0 52.8 79.2#





#50

Toluene-d8

Concen: 42.867 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.00 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

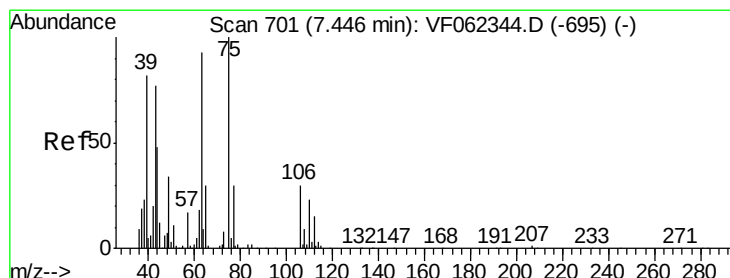
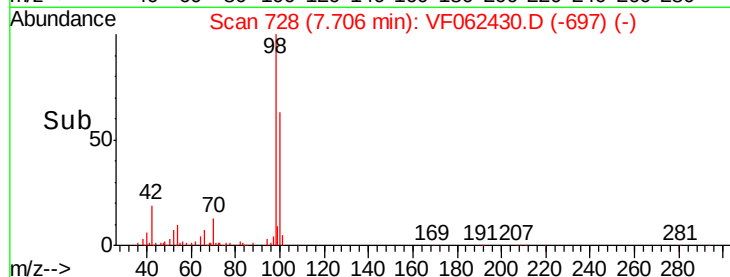
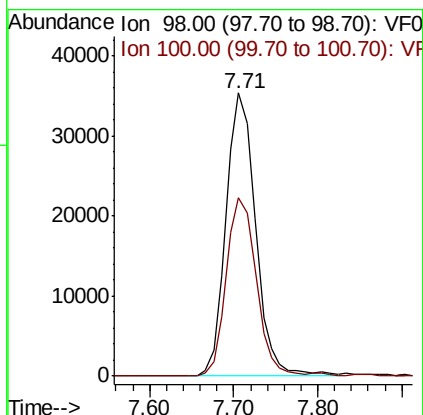
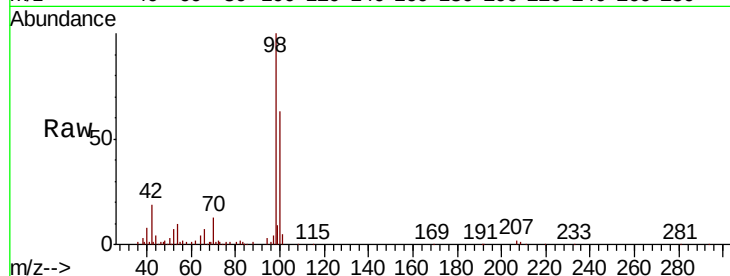
PL-02-050719-ERE

Tgt Ion: 98 Resp: 87038

Ion Ratio Lower Upper

98 100

100 64.2 53.3 79.9



#58

2-Chloroethyl Vinyl ether

Concen: 1.398 ug/l

RT: 7.40 min Scan# 697

Delta R.T. -0.05 min

Lab File: VF062430.D

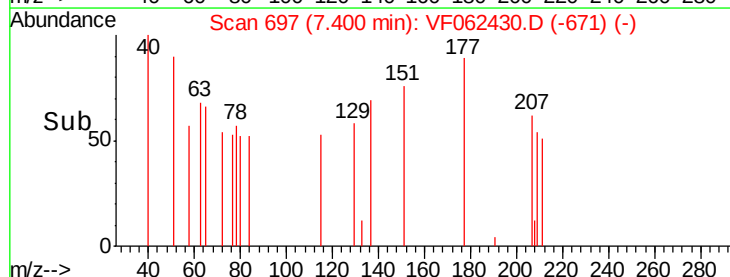
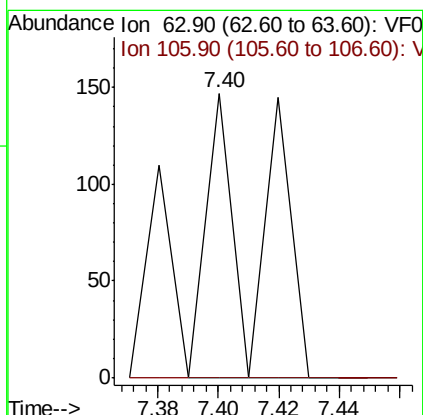
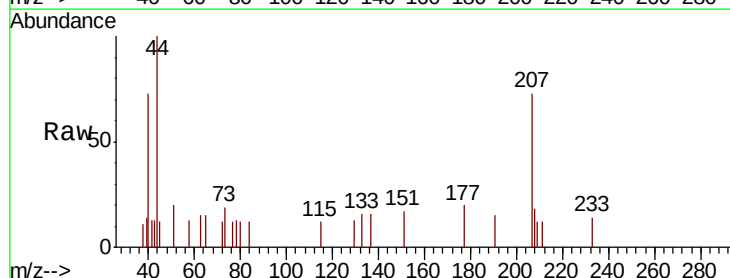
Acq: 10 May 2019 18:23

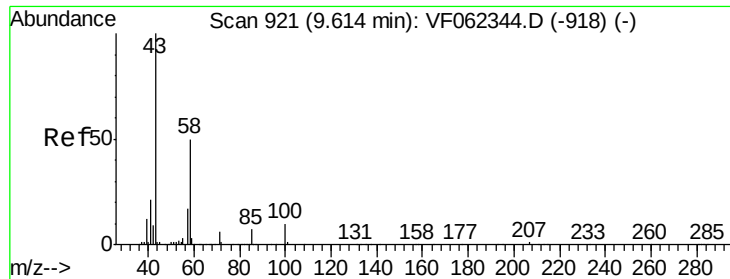
Tgt Ion: 63 Resp: 173

Ion Ratio Lower Upper

63 100

106 0.0 25.8 38.8#

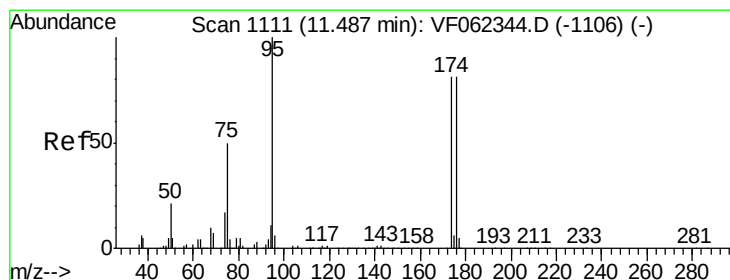
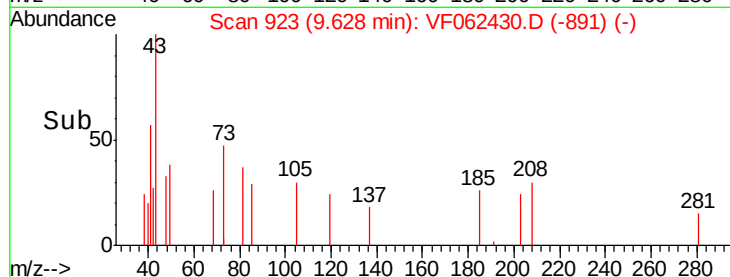
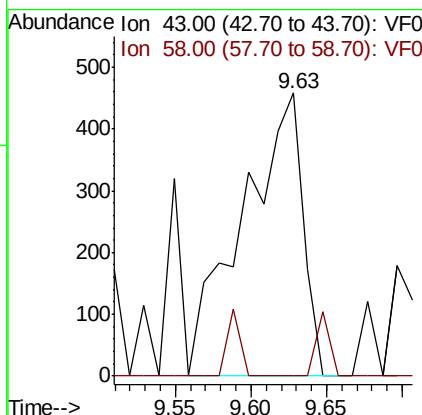
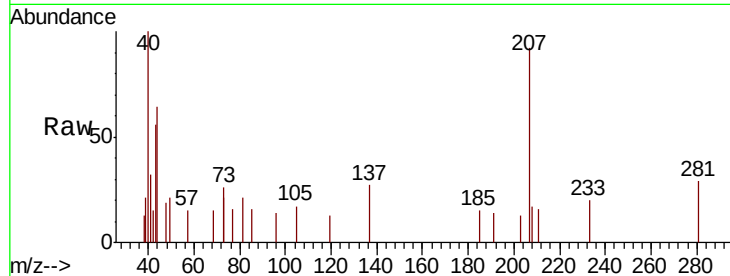




#59
2-Hexanone
Concen: 5.891 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

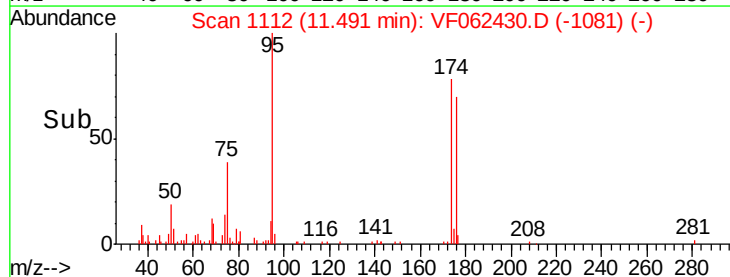
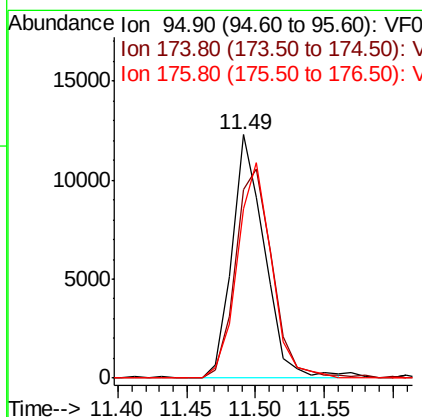
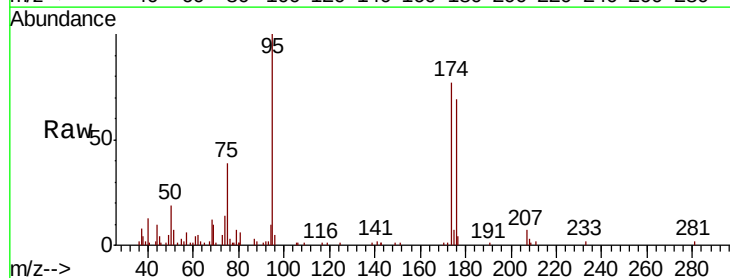
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-ERE

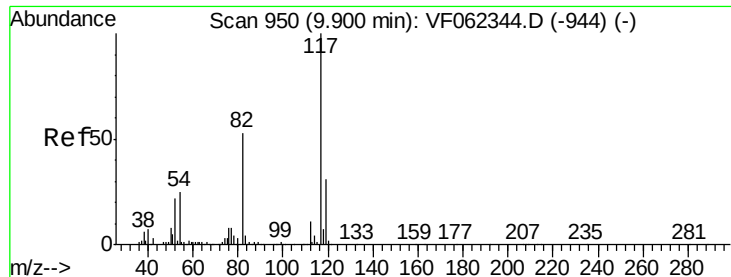
Tgt Ion: 43 Resp: 1270
Ion Ratio Lower Upper
43 100
58 4.9 24.3 73.0#



#62
4-Bromofluorobenzene
Concen: 22.000 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

Tgt Ion: 95 Resp: 20153
Ion Ratio Lower Upper
95 100
174 98.7 0.0 191.8
176 93.7 0.0 193.2

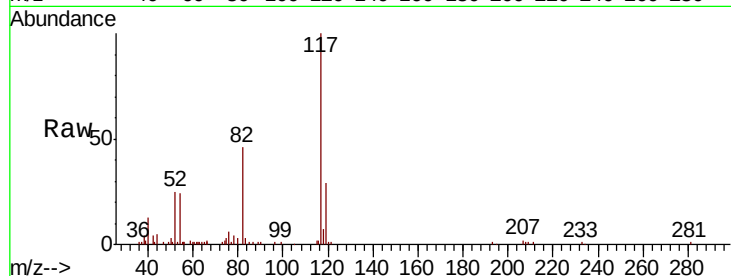




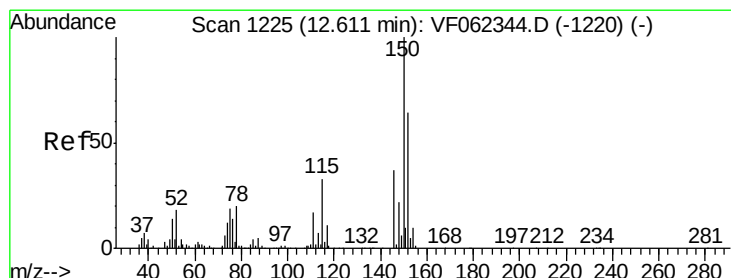
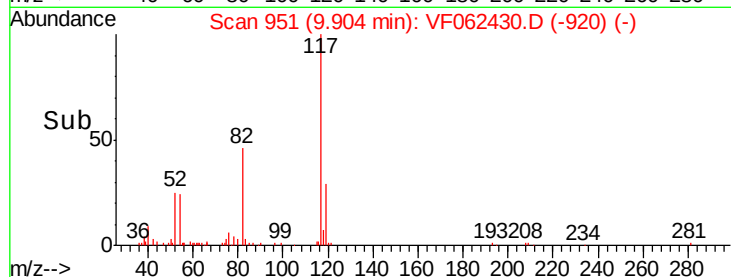
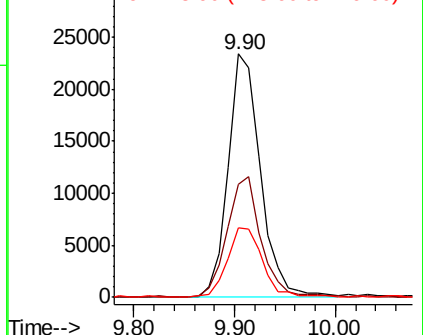
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.00 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

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

Tgt Ion:117 Resp: 52402
Ion Ratio Lower Upper
117 100
82 46.4 42.2 63.2
119 28.7 25.0 37.4

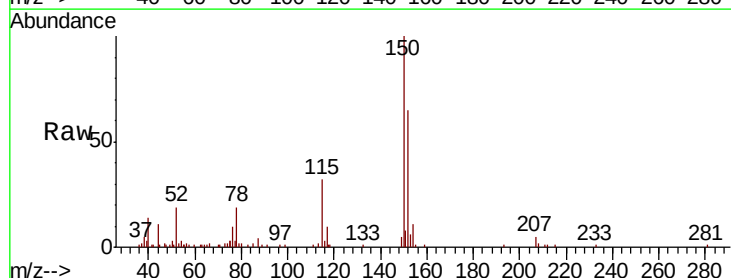


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

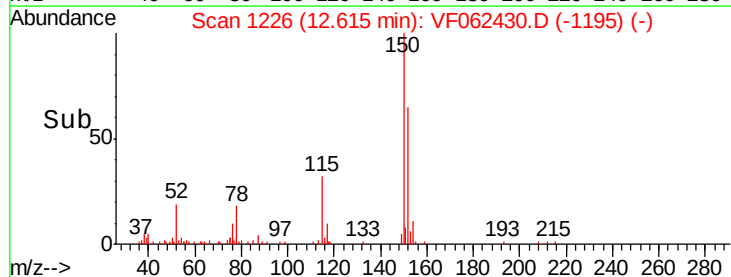
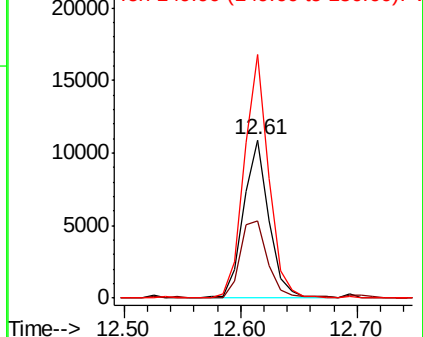


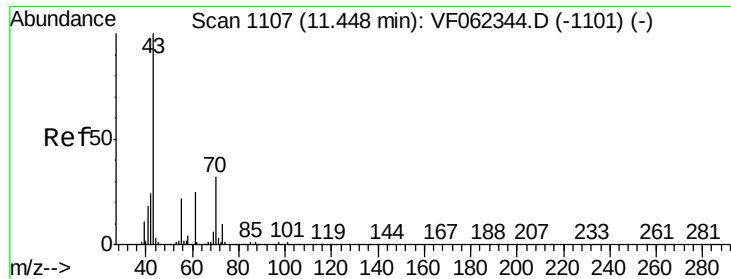
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062430.D
Acq: 10 May 2019 18:23

Tgt Ion:152 Resp: 16532
Ion Ratio Lower Upper
152 100
115 53.4 26.4 79.2
150 147.3 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





#74

N-ethyl acetate

Concen: 1.887 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-ERE

Tgt Ion: 43 Resp: 397

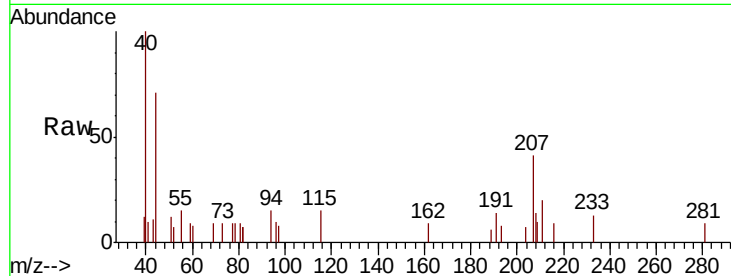
Ion Ratio Lower Upper

43 100

70 0.0 26.5 39.7#

55 75.6 17.8 26.6#

61 0.0 20.2 30.2#

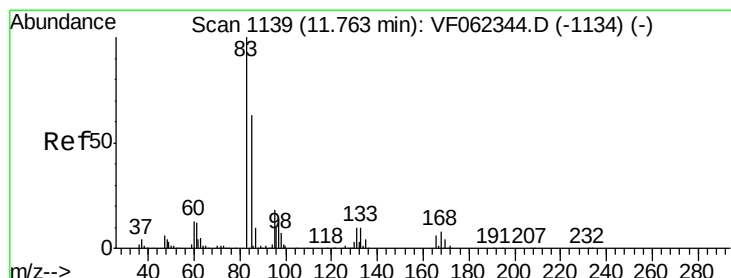
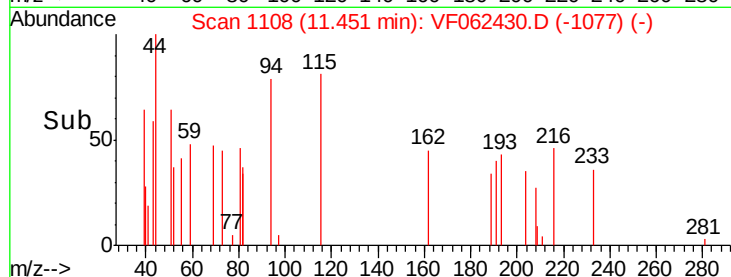
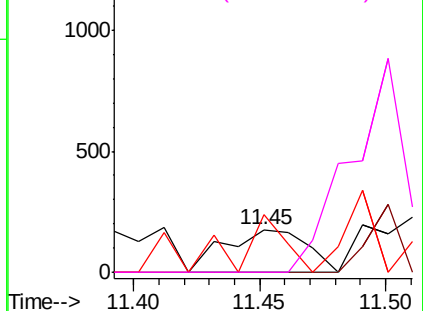


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.170 ug/l

RT: 11.73 min Scan# 1136

Delta R.T. -0.04 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

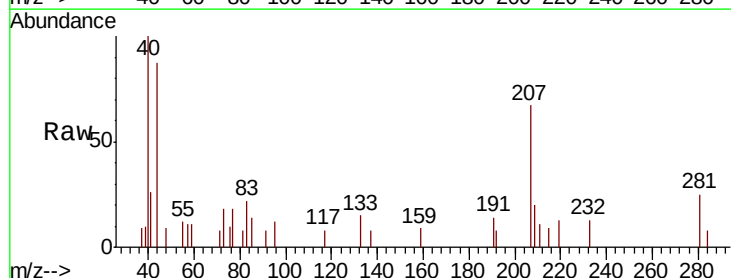
Tgt Ion: 83 Resp: 333

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

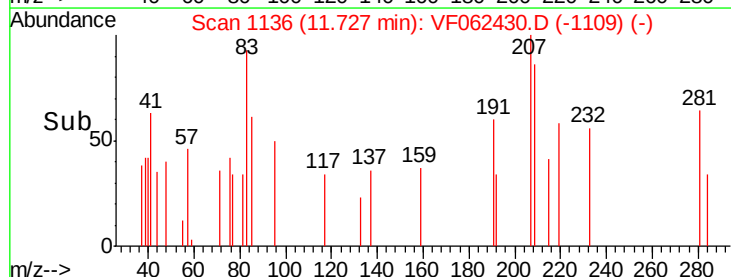
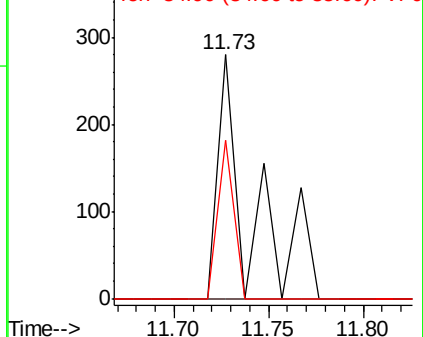
85 32.4 35.3 105.7#

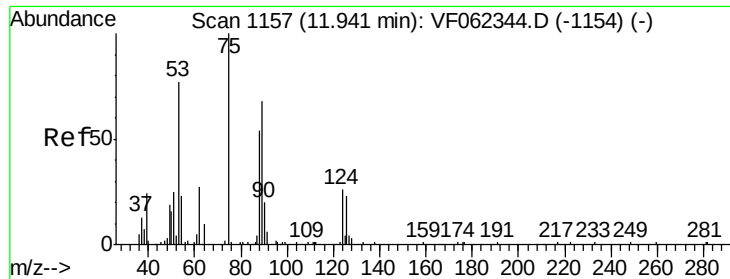


Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 3.272 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-ERE

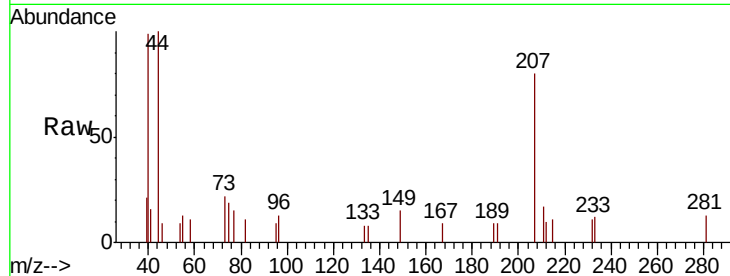
Tgt Ion: 75 Resp: 144

Ion Ratio Lower Upper

75 100

53 43.8 71.9 107.9#

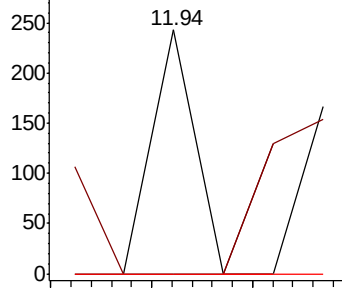
89 0.0 0.0 0.0



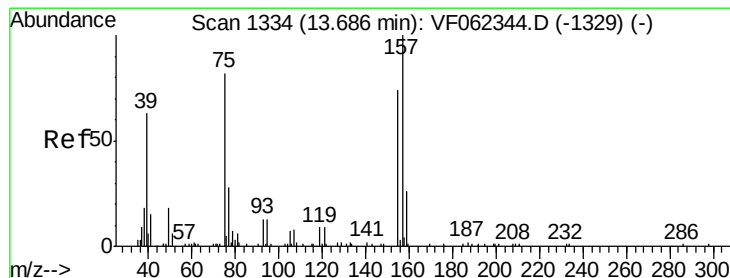
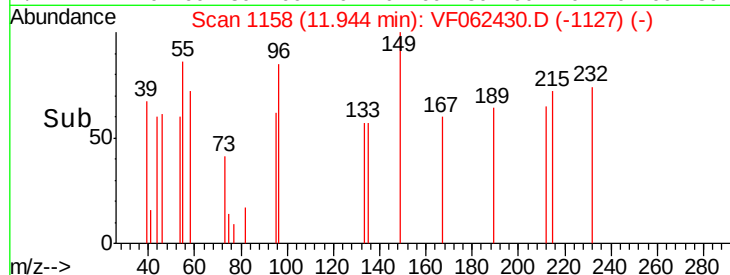
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



Time--> 11.92 11.94 11.96



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.745 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.02 min

Lab File: VF062430.D

Acq: 10 May 2019 18:23

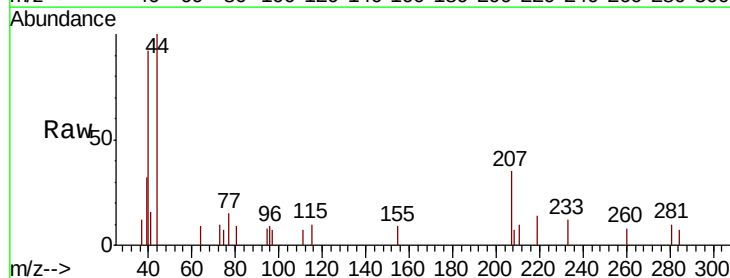
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 123.3 51.8 155.4

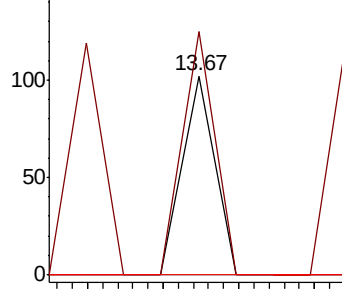
157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time--> 13.64 13.66 13.68 13.70

