

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062408.D
 Acq On : 9 May 2019 21:02
 Operator : FY/SY
 Sample : K2645-01
 Misc : 6.76g/5mL/MSVOA_F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: May 10 01:55:36 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	5.06	168	163646	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	215536	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	89648	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.60	152	64612	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	133445	86.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	172.58%	
35) Dibromofluoromethane	4.30	113	142950	83.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	166.50%	
50) Toluene-d8	7.71	98	31678	7.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	15.24%	
62) 4-Bromofluorobenzene	11.49	95	72277	38.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.08%	

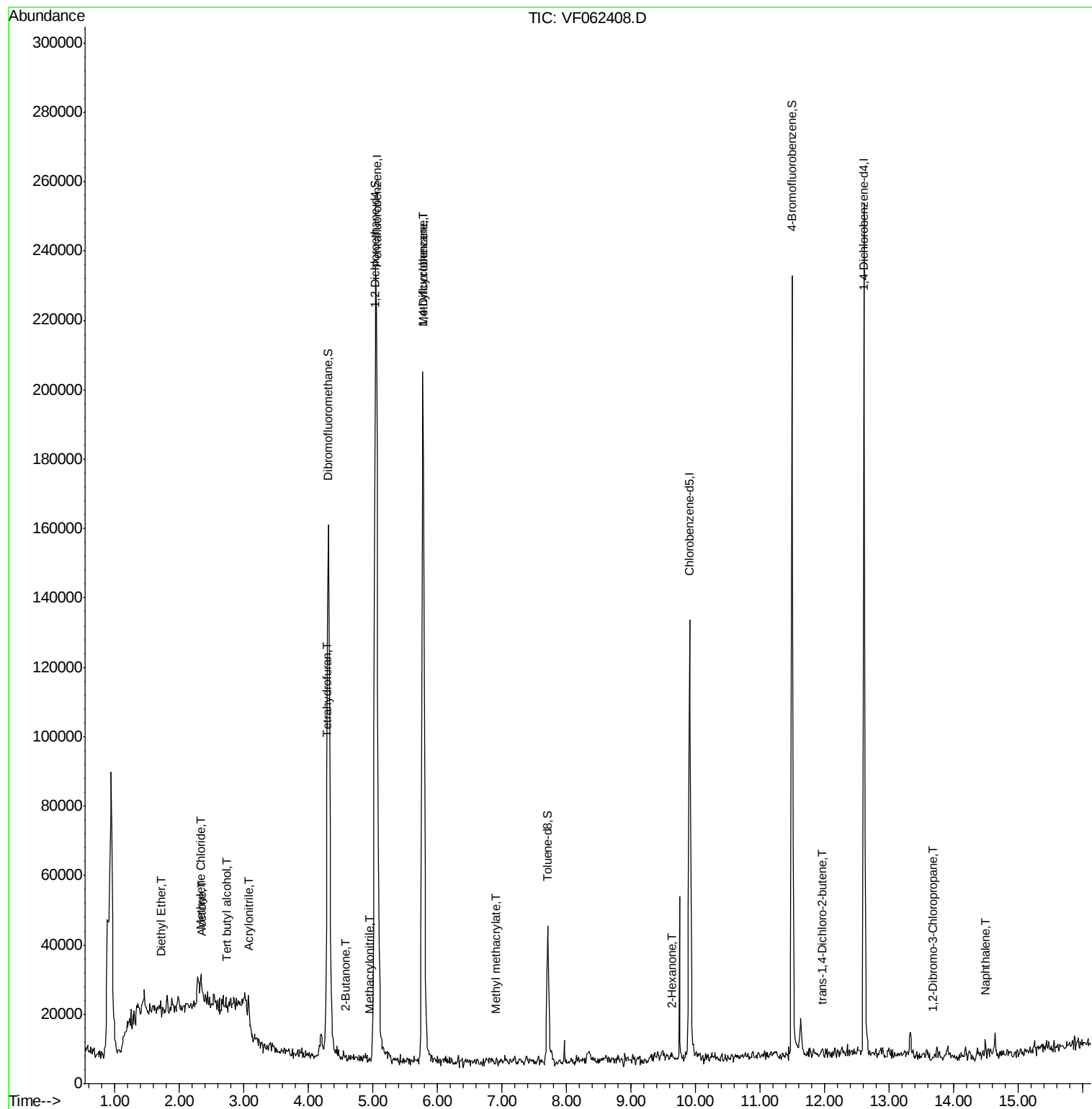
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	1110	Below Cal	#	17
8) Diethyl Ether	1.72	74	466	1.191	ug/l	55
11) Tert butyl alcohol	2.75	59	112	1.281	ug/l #	1
13) Acrolein	2.11	56	833	Below Cal	#	13
15) Acrylonitrile	3.08	53	896	5.412	ug/l #	6
16) Acetone	2.35	43	4433	14.170	ug/l #	62
20) Methylene Chloride	2.33	84	4192	3.704	ug/l #	81
25) 2-Butanone	4.57	43	1188	3.023	ug/l #	60
29) Tetrahydrofuran	4.27	42	230	1.273	ug/l #	36
37) Ethyl Acetate	4.32	43	1020	Below Cal	#	94
38) Carbon Tetrachloride	4.18	117	79	Below Cal	#	14
39) Methylcyclohexane	5.76	83	3309	1.782	ug/l #	43
41) Methacrylonitrile	4.94	41	824	1.856	ug/l #	37
48) Methyl methacrylate	6.92	41	791	1.329	ug/l #	52
49) 1,4-Dioxane	6.80	88	66	Below Cal	#	1
59) 2-Hexanone	9.64	43	1106	2.506	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.95	75	173	1.006	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	13.67	75	154	1.146	ug/l #	1
95) Naphthalene	14.50	128	2496	1.042	ug/l #	74

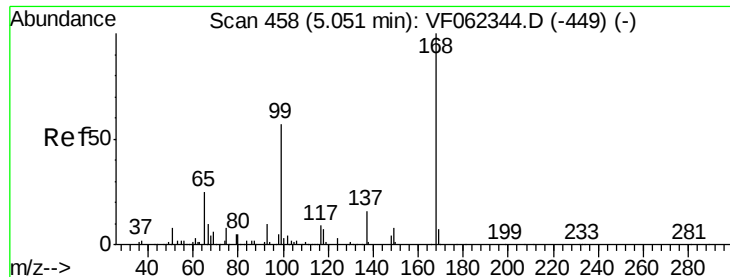
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

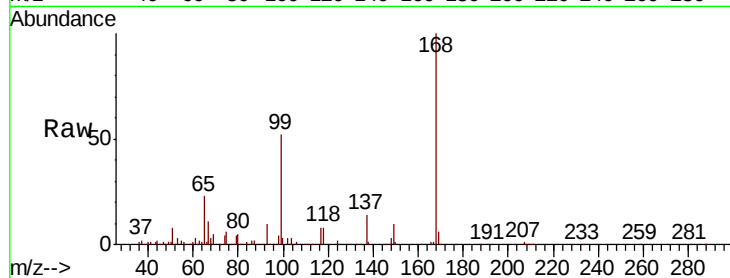
PL-02-050719-A

Tgt Ion:168 Resp: 163646

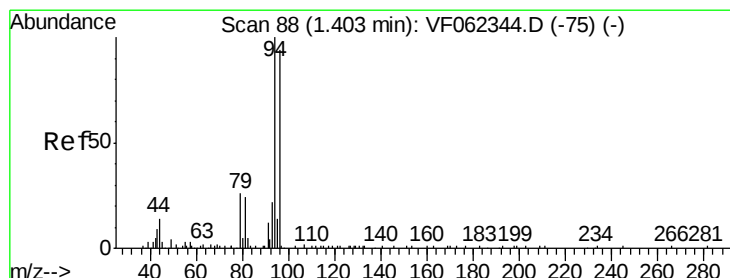
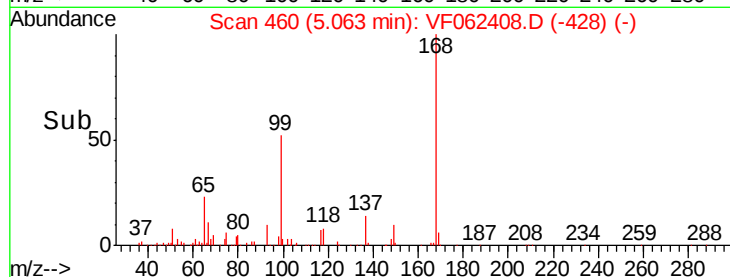
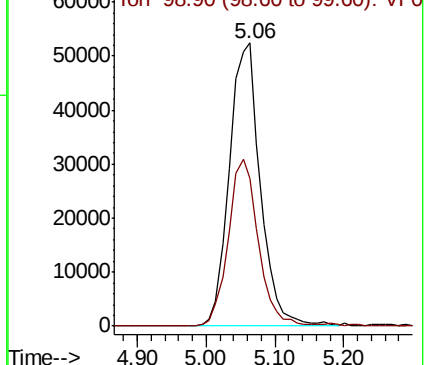
Ion Ratio Lower Upper

168 100

99 52.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062408.D

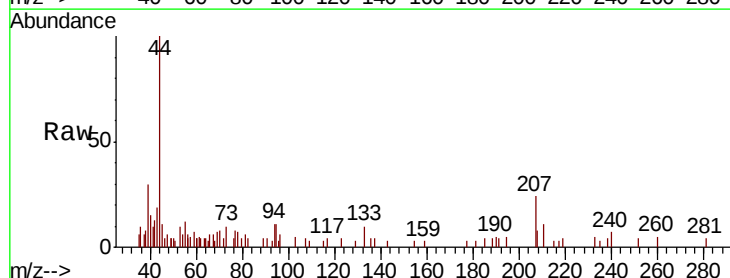
Acq: 9 May 2019 21:02

Tgt Ion: 94 Resp: 1110

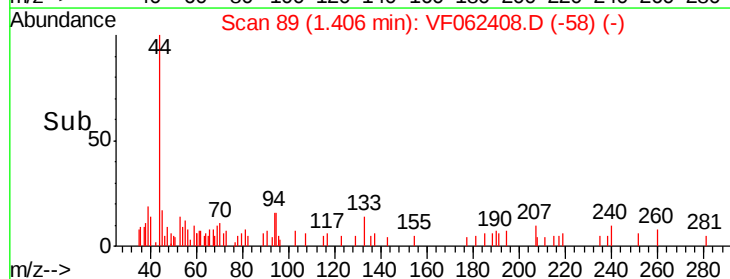
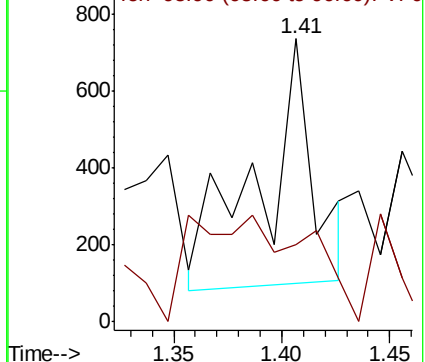
Ion Ratio Lower Upper

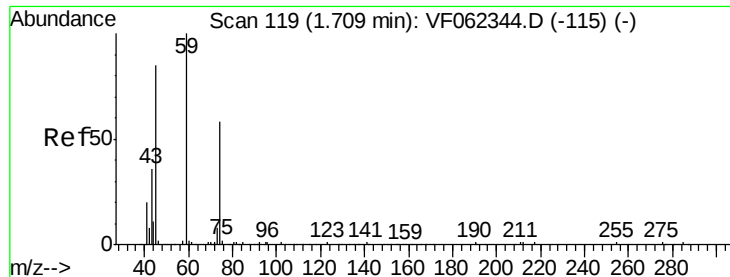
94 100

96 14.3 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0





#8

Diethyl Ether

Concen: 1.191 ug/l

RT: 1.72 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

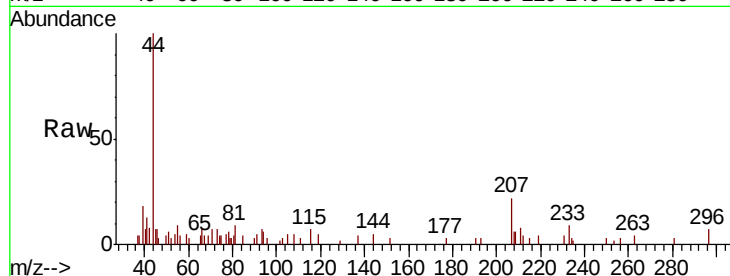
PL-02-050719-A

Tgt Ion: 74 Resp: 466

Ion Ratio Lower Upper

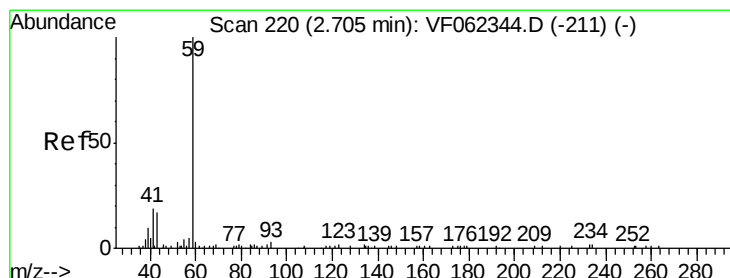
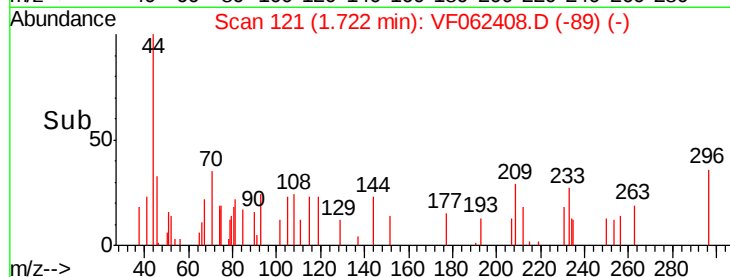
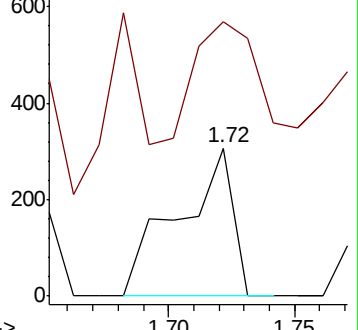
74 100

45 91.4 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: 1.281 ug/l

RT: 2.75 min Scan# 225

Delta R.T. 0.04 min

Lab File: VF062408.D

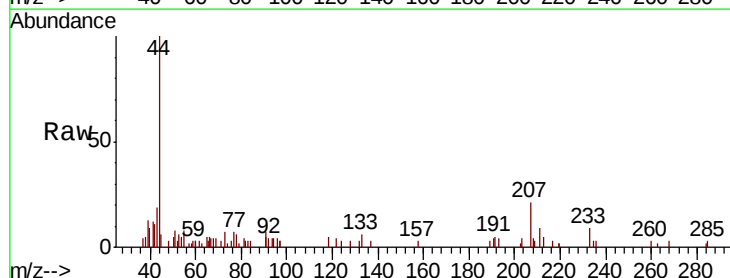
Acq: 9 May 2019 21:02

Tgt Ion: 59 Resp: 112

Ion Ratio Lower Upper

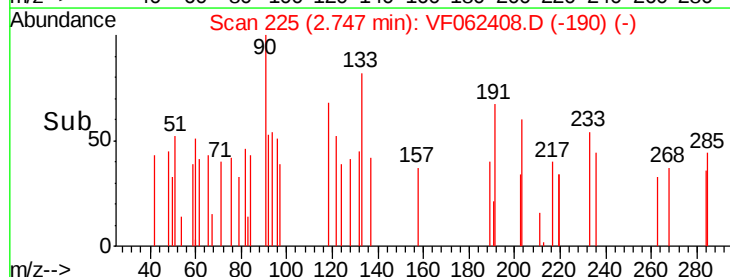
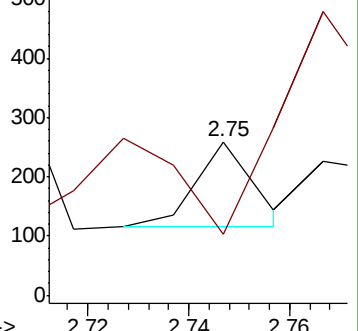
59 100

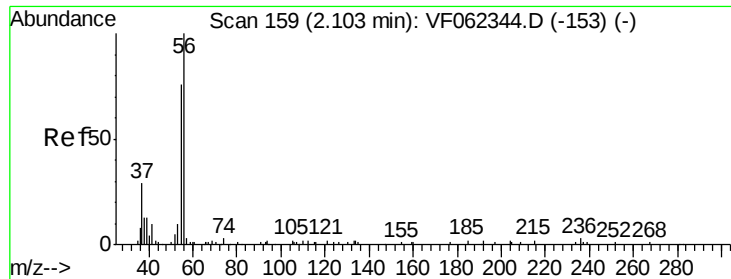
57 645.5 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

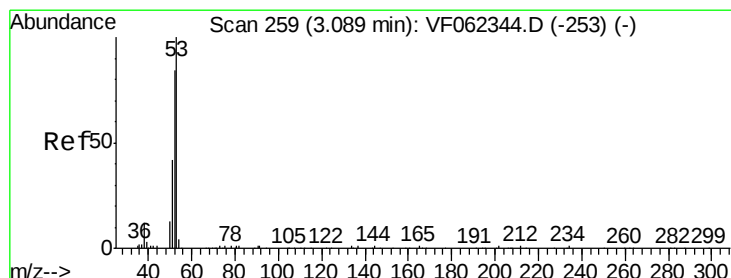
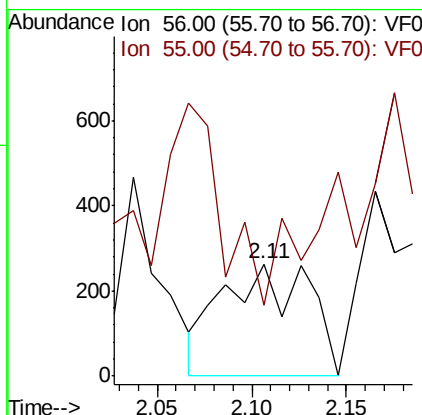
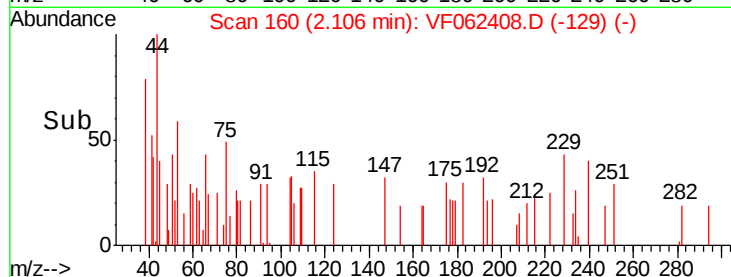
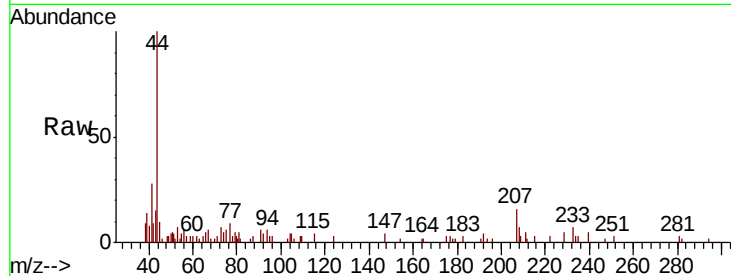




#13
 Acrolein
 Concen: Below Cal
 RT: 2.11 min Scan# 160
 Delta R.T. 0.00 min
 Lab File: VF062408.D
 Acq: 9 May 2019 21:02

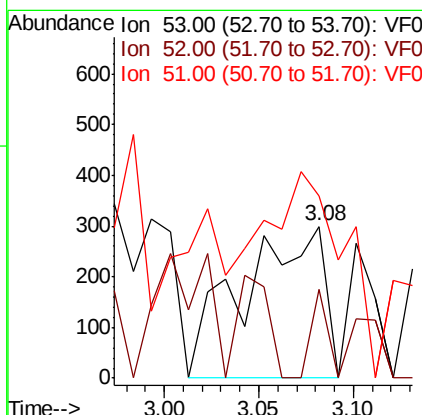
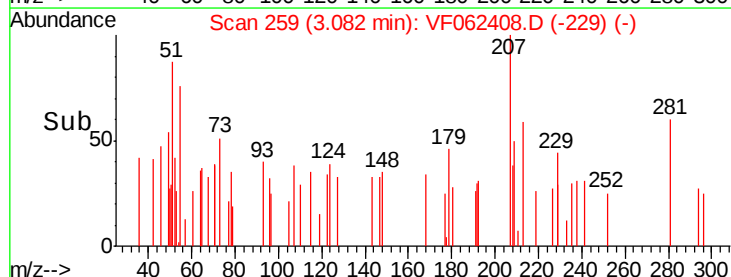
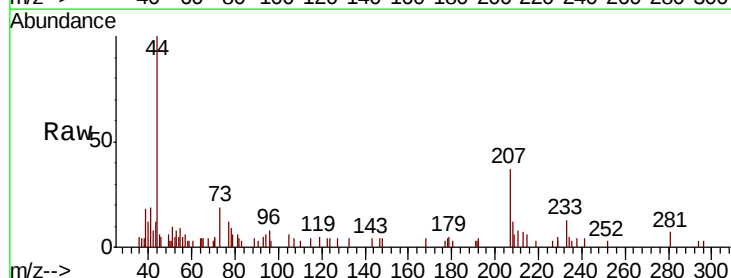
Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-050719-A

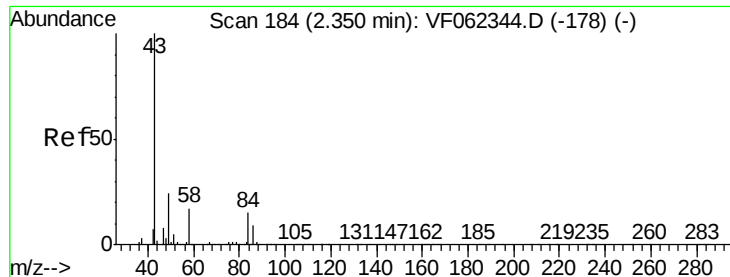
Tgt Ion: 56 Resp: 833
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.4 87.6#



#15
 Acrylonitrile
 Concen: 5.412 ug/l
 RT: 3.08 min Scan# 259
 Delta R.T. -0.01 min
 Lab File: VF062408.D
 Acq: 9 May 2019 21:02

Tgt Ion: 53 Resp: 896
 Ion Ratio Lower Upper
 53 100
 52 11.6 77.2 115.8#
 51 125.6 40.6 61.0#





#16

Acetone

Concen: 14.170 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

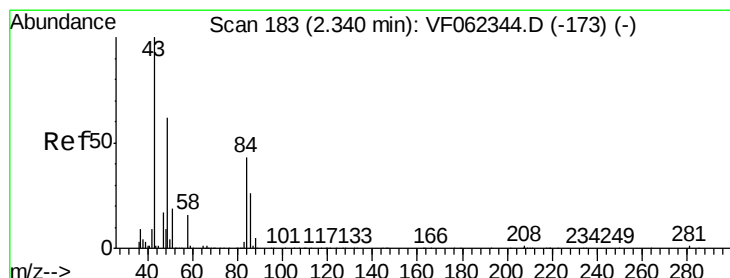
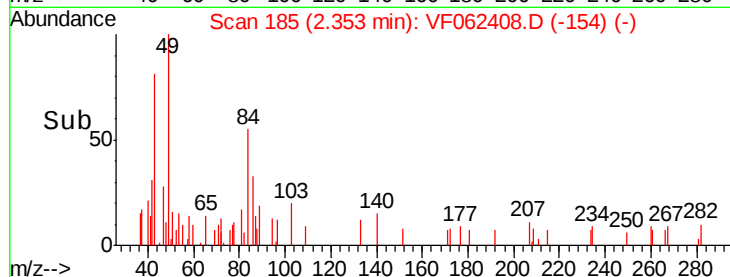
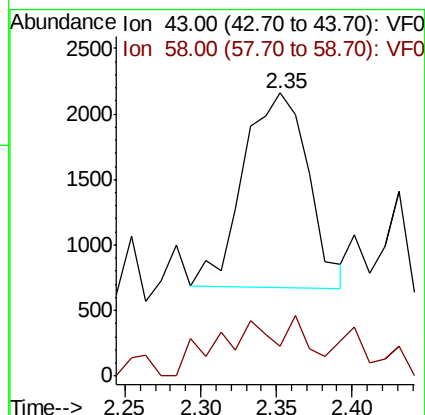
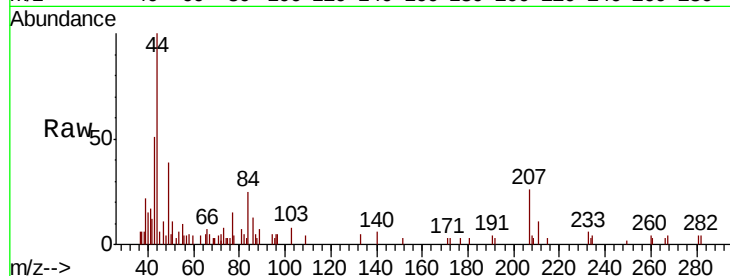
PL-02-050719-A

Tgt Ion: 43 Resp: 4433

Ion Ratio Lower Upper

43 100

58 0.0 13.1 19.7#



#20

Methylene Chloride

Concen: 3.704 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Tgt Ion: 84 Resp: 4192

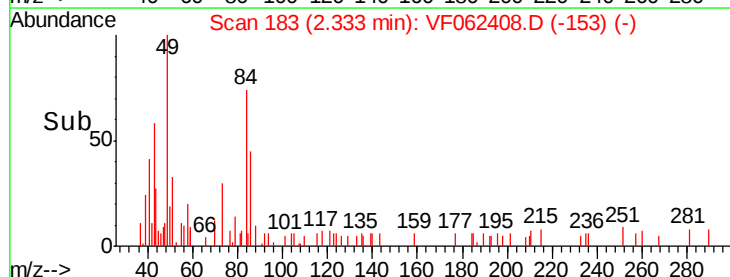
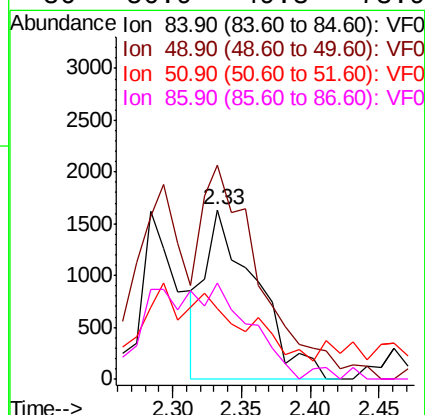
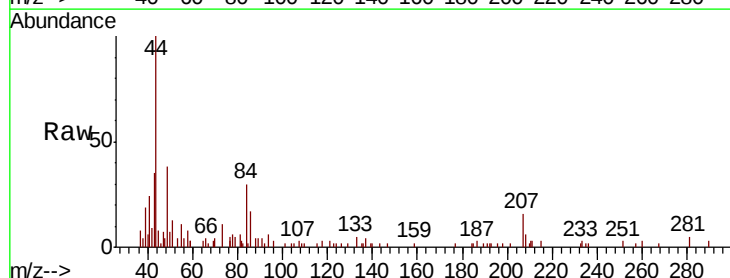
Ion Ratio Lower Upper

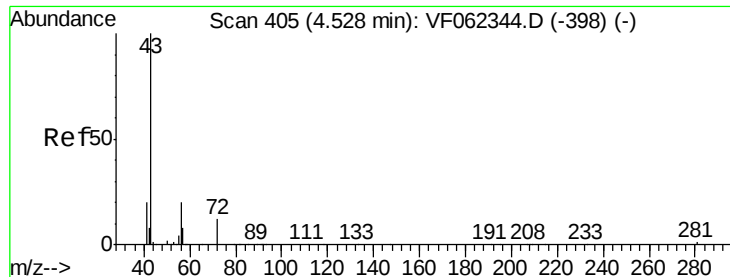
84 100

49 119.9 117.5 176.3

51 26.9 37.0 55.4#

86 56.9 49.3 73.9





#25

2-Butanone

Concen: 3.023 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.04 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

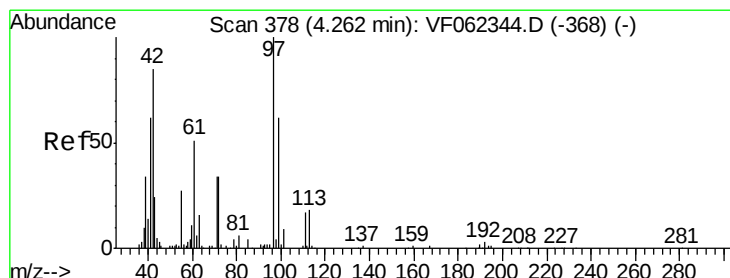
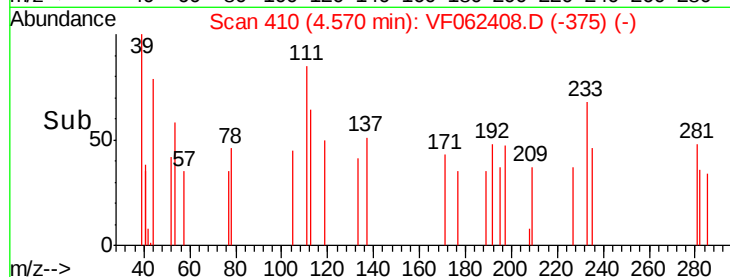
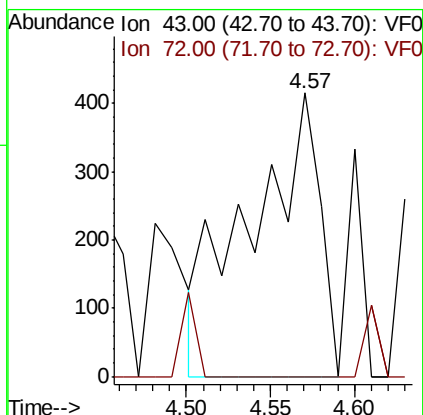
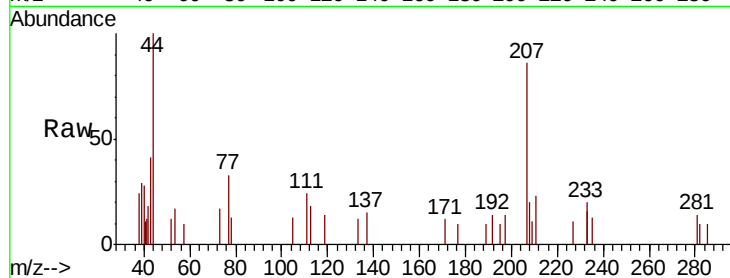
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Tgt Ion: 43 Resp: 1188

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: 1.273 ug/l

RT: 4.27 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

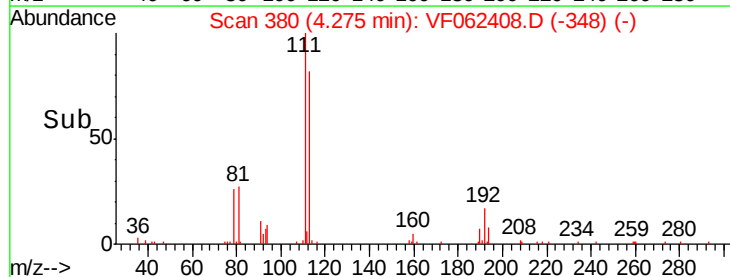
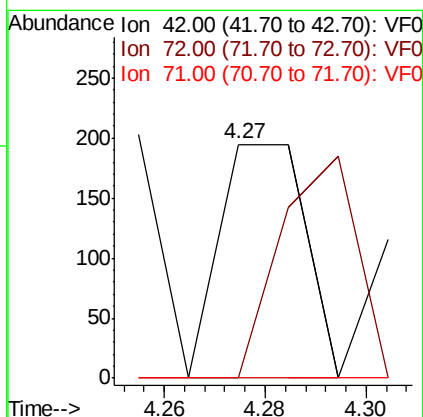
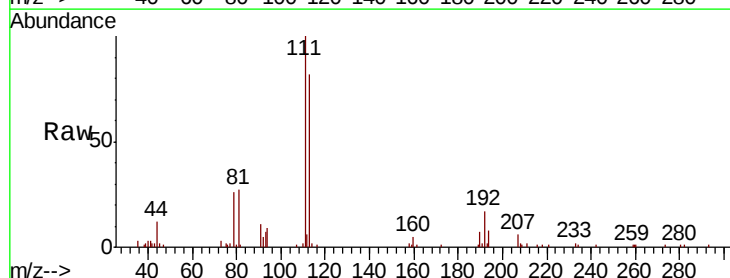
Tgt Ion: 42 Resp: 230

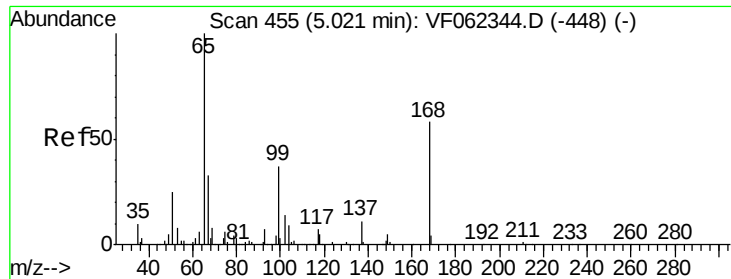
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 86.287 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

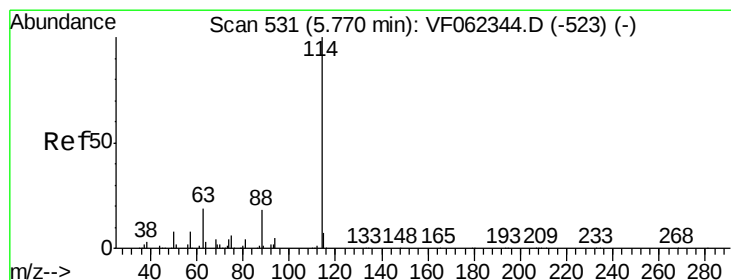
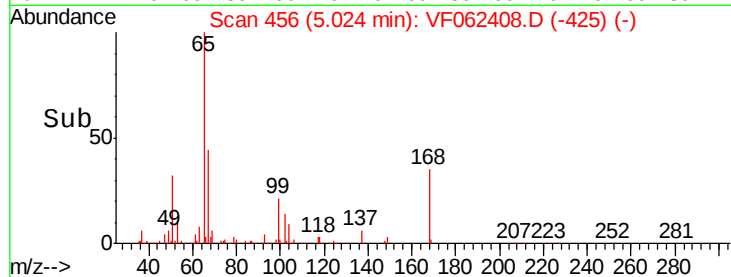
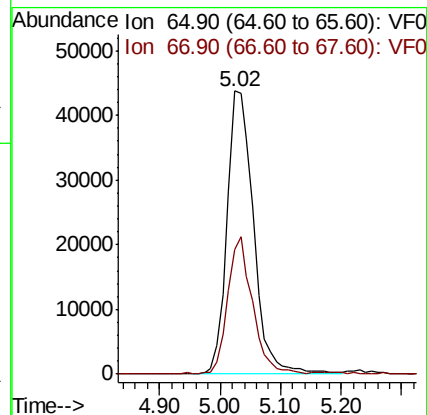
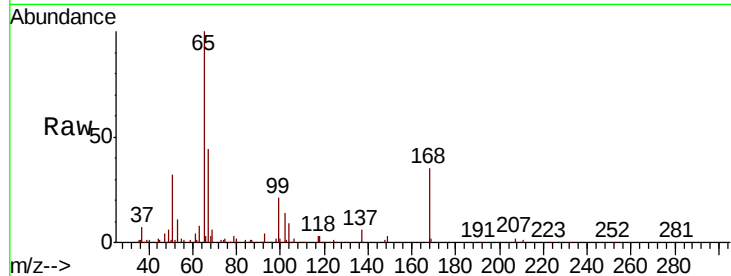
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Tgt Ion: 65 Resp: 133445

Ion Ratio Lower Upper

65 100

67 45.5 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

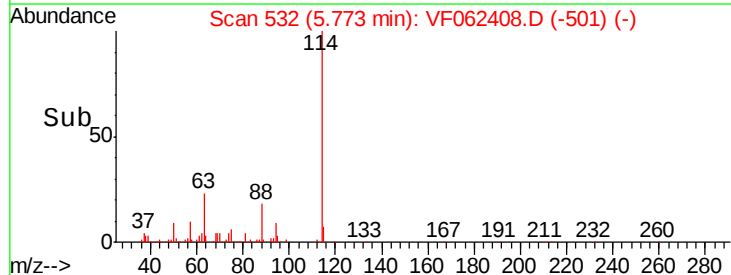
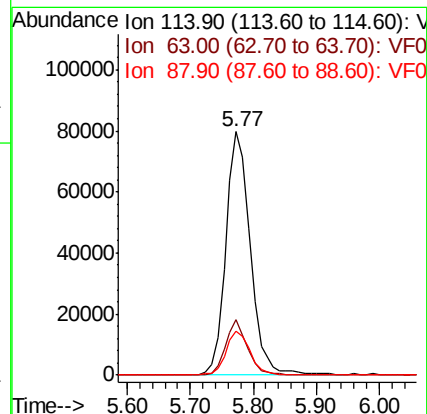
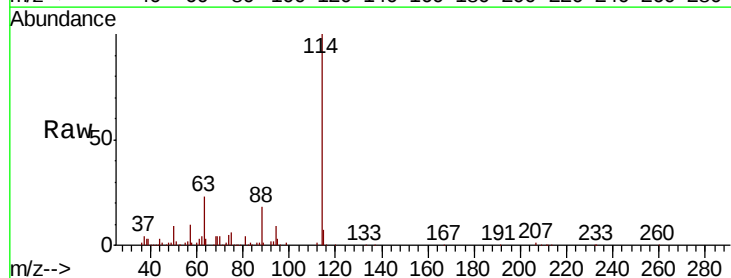
Tgt Ion: 114 Resp: 215536

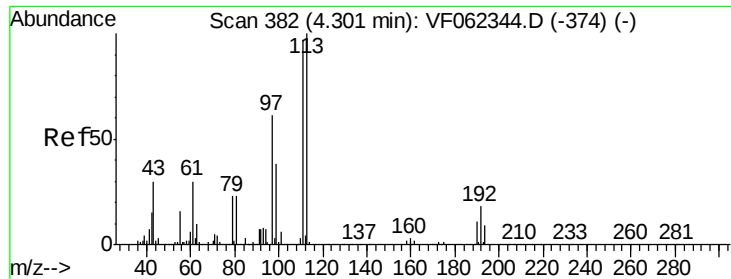
Ion Ratio Lower Upper

114 100

63 22.9 0.0 37.4

88 18.2 0.0 36.4

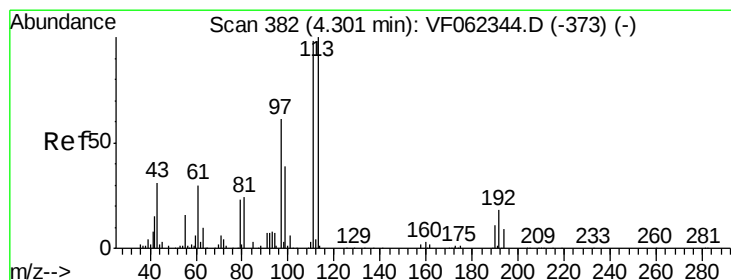
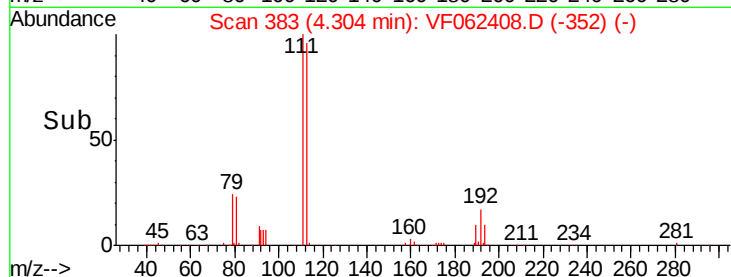
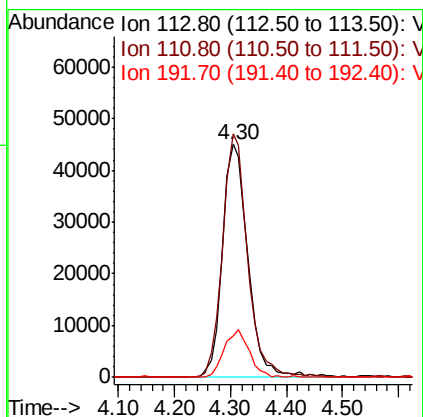
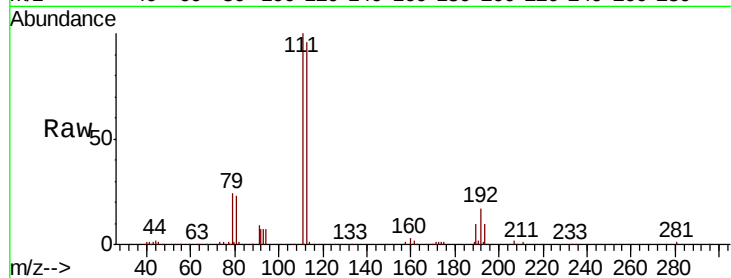




#35
Dibromofluoromethane
Concen: 83.249 ug/l
RT: 4.30 min Scan# 383
Delta R.T. 0.00 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

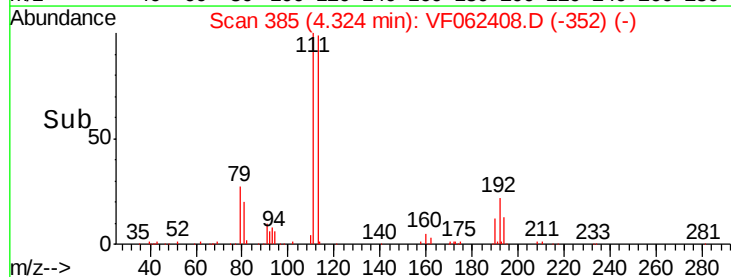
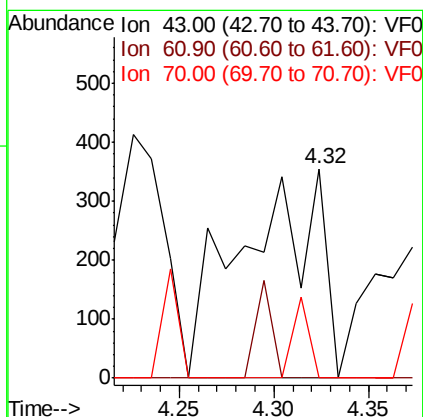
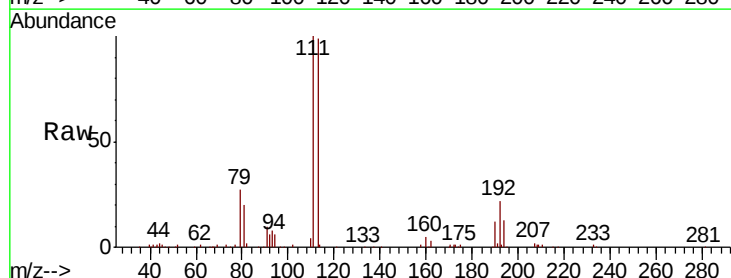
Instrument :
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PL-02-050719-A

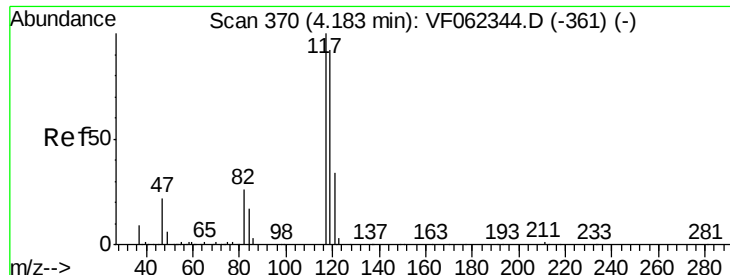
Tgt Ion:113 Resp: 142950
Ion Ratio Lower Upper
113 100
111 102.3 79.4 119.0
192 20.2 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

Tgt Ion: 43 Resp: 1020
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 8.0 8.2 12.2#

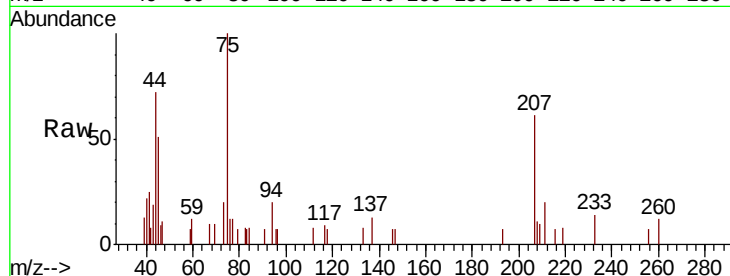




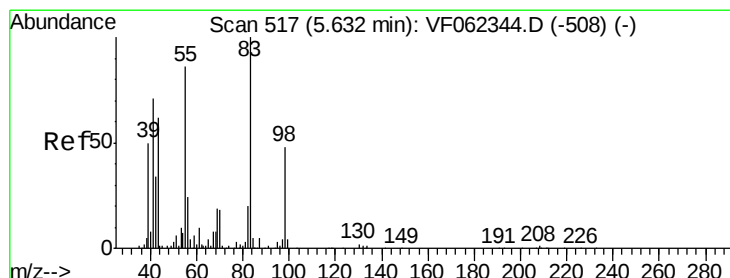
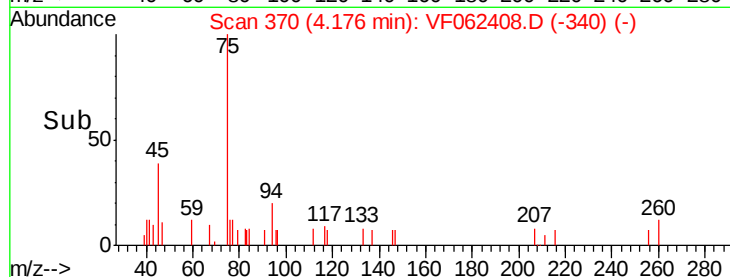
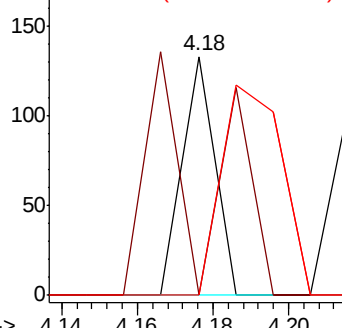
#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.18 min Scan# 370
Delta R.T. -0.01 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

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

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#

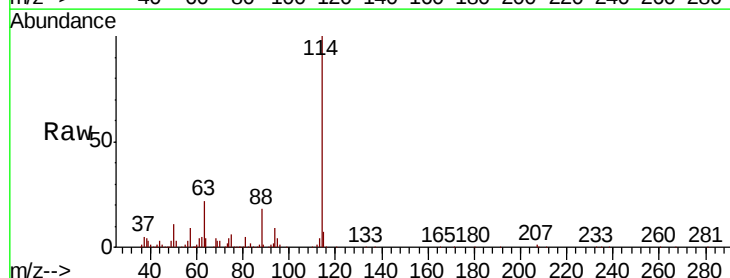


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

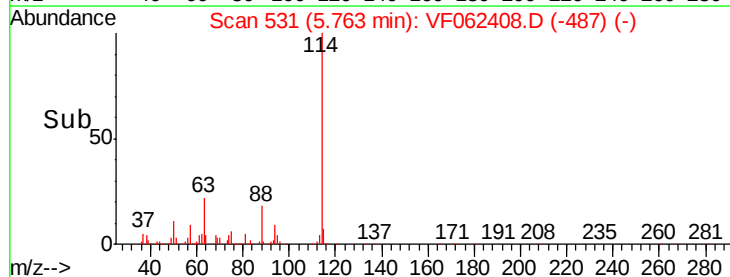
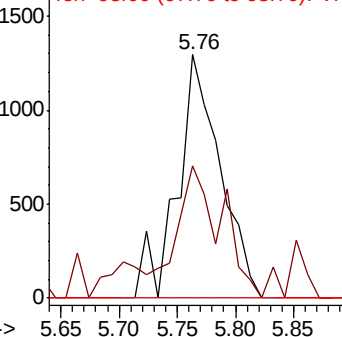


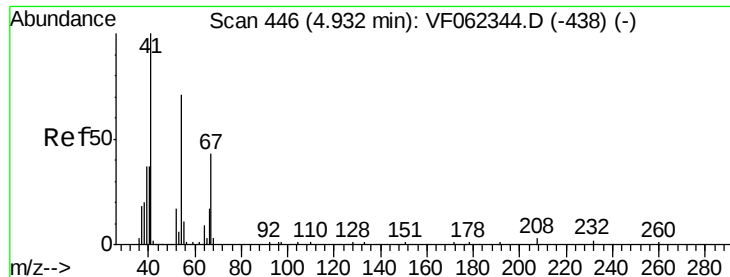
#39
Methylcyclohexane
Concen: 1.782 ug/l
RT: 5.76 min Scan# 531
Delta R.T. 0.13 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

Tgt Ion: 83 Resp: 3309
Ion Ratio Lower Upper
83 100
55 41.5 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

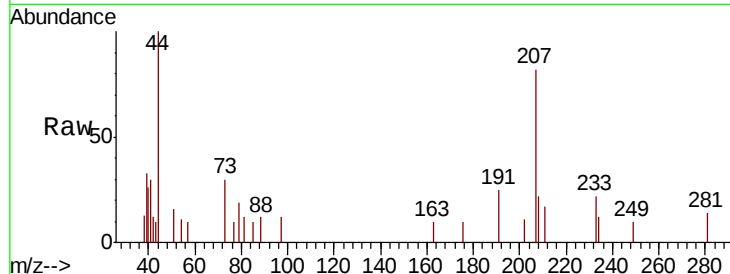




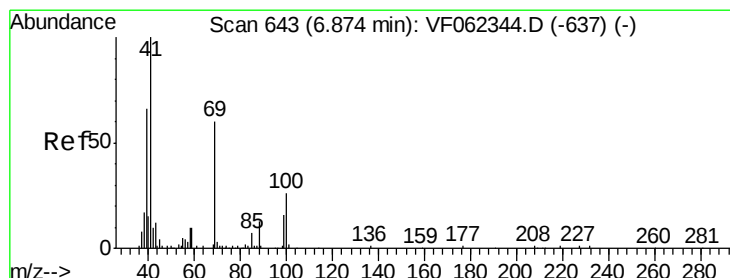
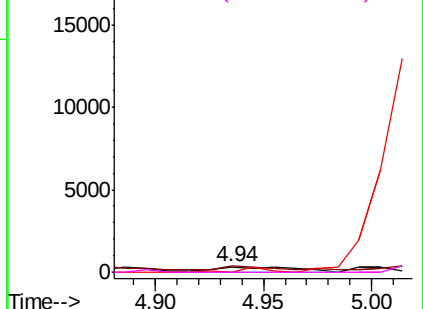
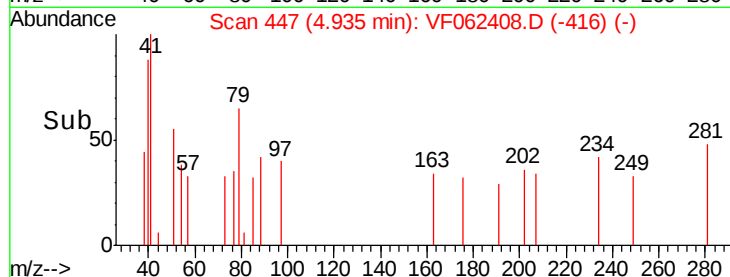
#41
Methacrylonitrile
Concen: 1.856 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.00 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

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

Tgt Ion: 41 Resp: 824
Ion Ratio Lower Upper
41 100
39 41.0 54.3 81.5#
67 0.0 37.8 56.8#
52 0.0 58.2 87.4#

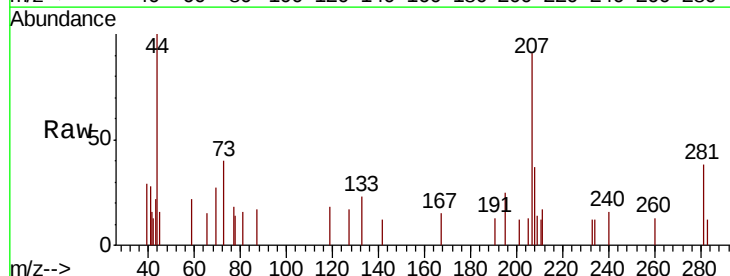


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

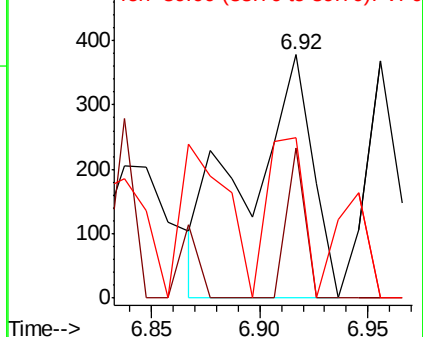
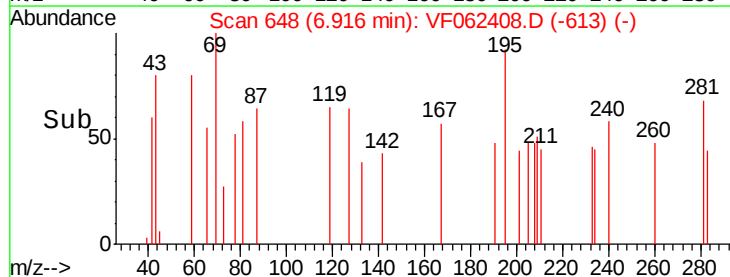


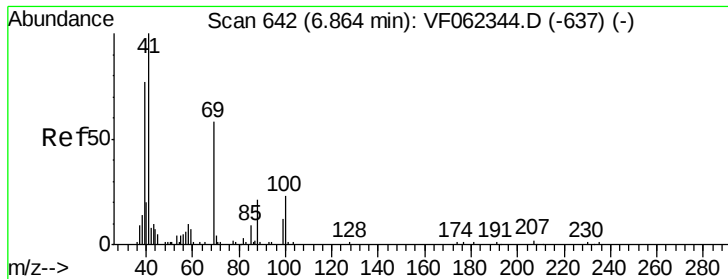
#48
Methyl methacrylate
Concen: 1.329 ug/l
RT: 6.92 min Scan# 648
Delta R.T. 0.04 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

Tgt Ion: 41 Resp: 791
Ion Ratio Lower Upper
41 100
69 17.4 48.6 72.8#
39 36.9 56.1 84.1#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.80 min Scan# 636

Delta R.T. -0.07 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-A

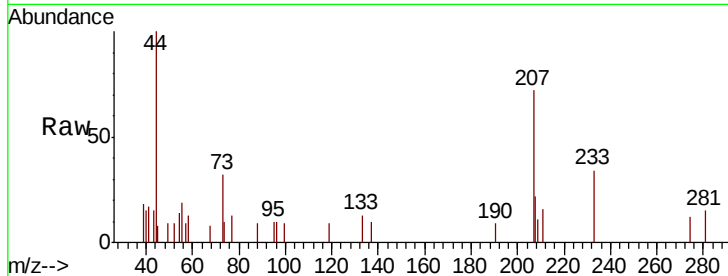
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 365.2 55.6 83.4#

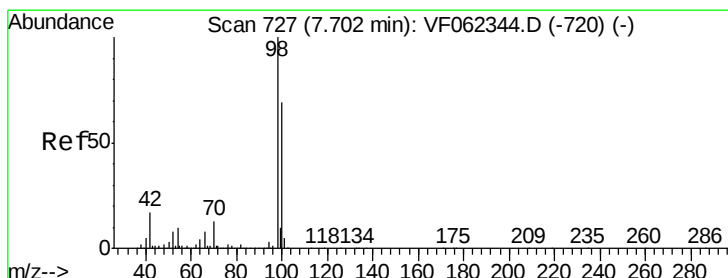
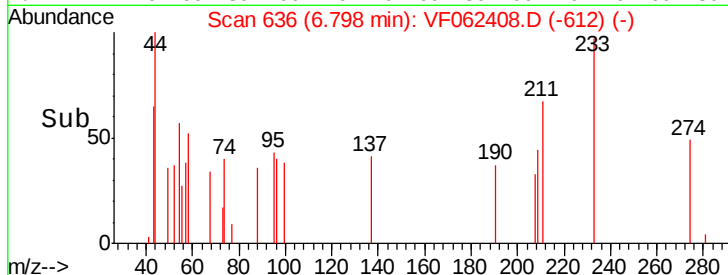
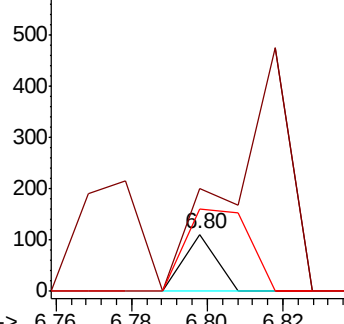
58 283.3 52.8 79.2#



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: 7.621 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.00 min

Lab File: VF062408.D

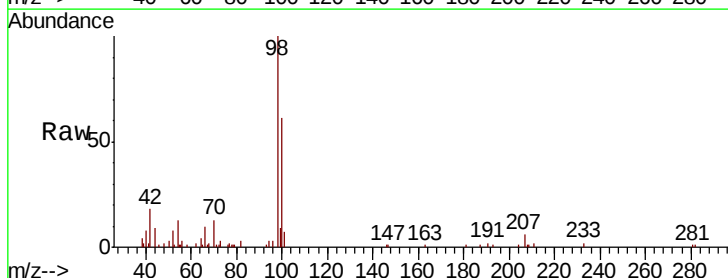
Acq: 9 May 2019 21:02

Tgt Ion: 98 Resp: 31678

Ion Ratio Lower Upper

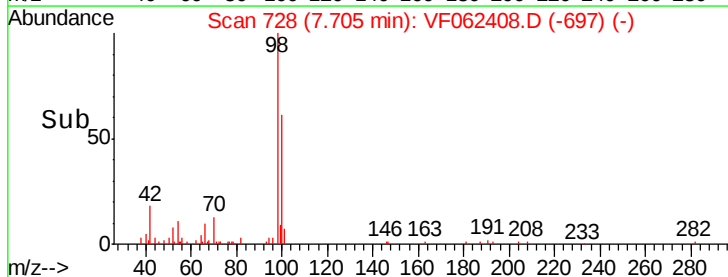
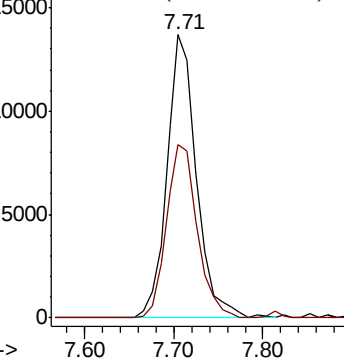
98 100

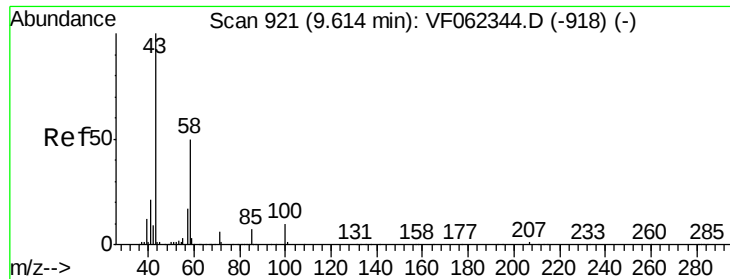
100 64.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

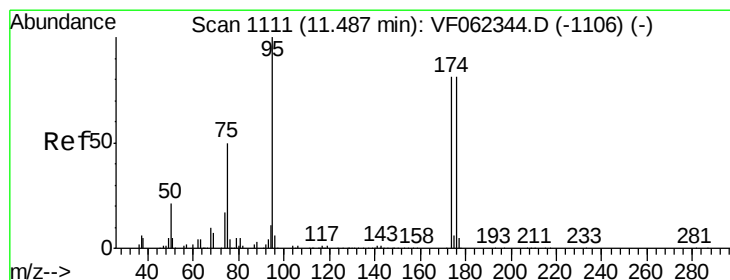
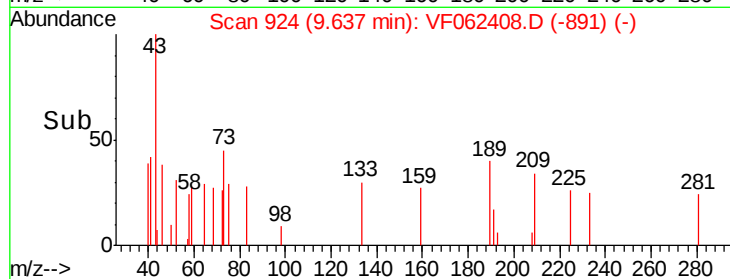
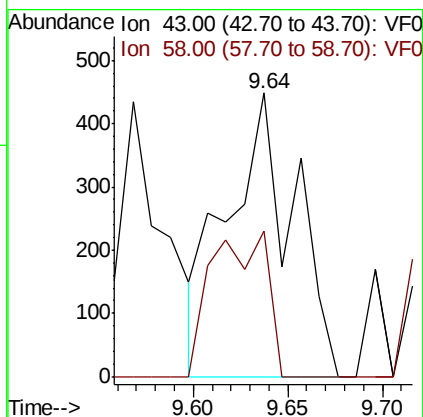
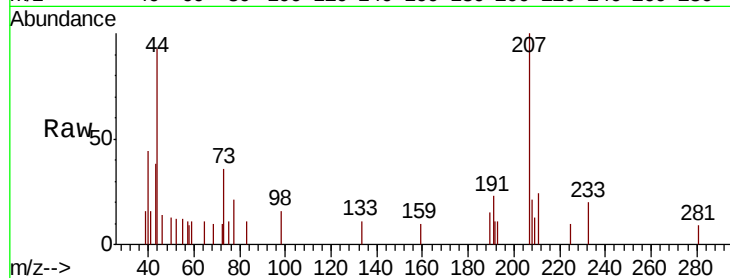




#59
2-Hexanone
Concen: 2.506 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

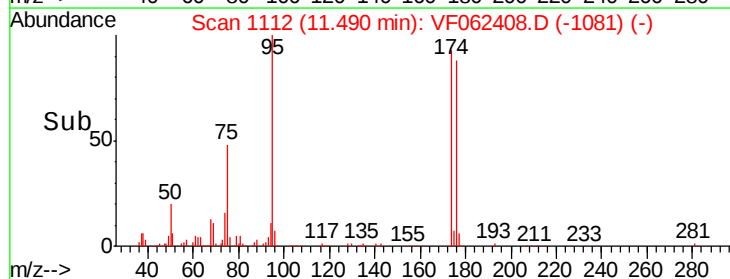
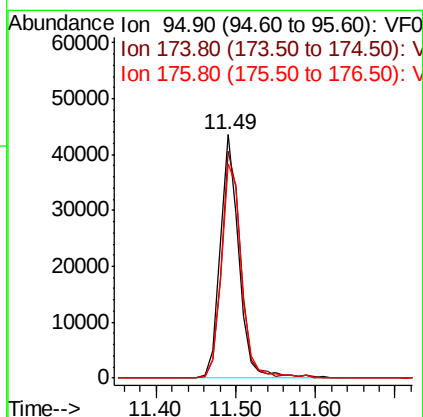
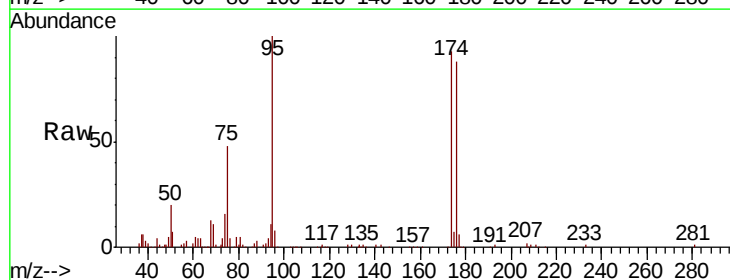
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-A

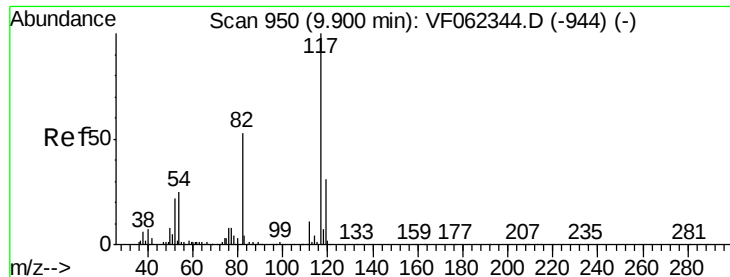
Tgt Ion: 43 Resp: 1106
Ion Ratio Lower Upper
43 100
58 42.2 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 38.542 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

Tgt Ion: 95 Resp: 72277
Ion Ratio Lower Upper
95 100
174 97.7 0.0 191.8
176 95.9 0.0 193.2

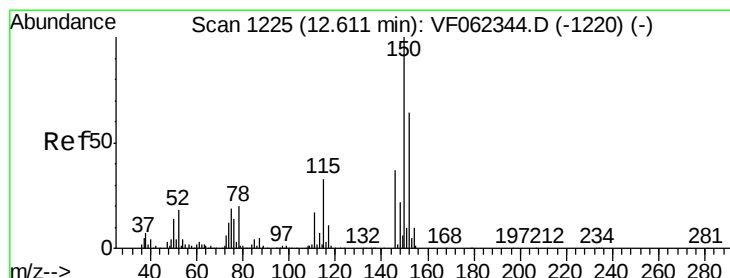
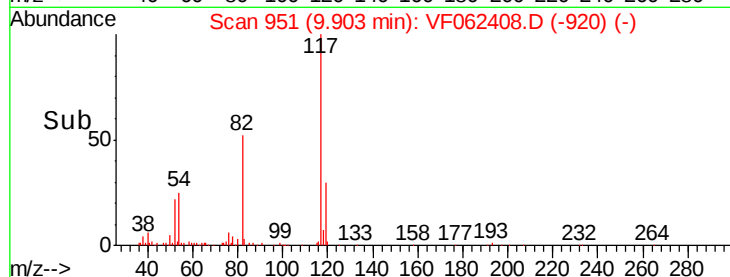
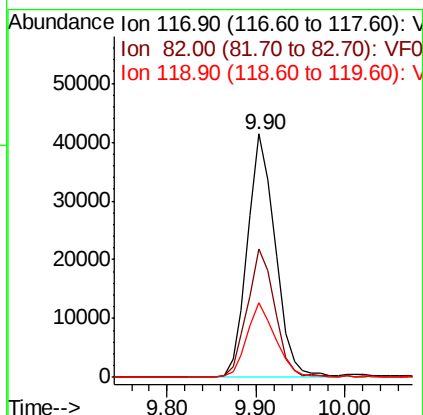
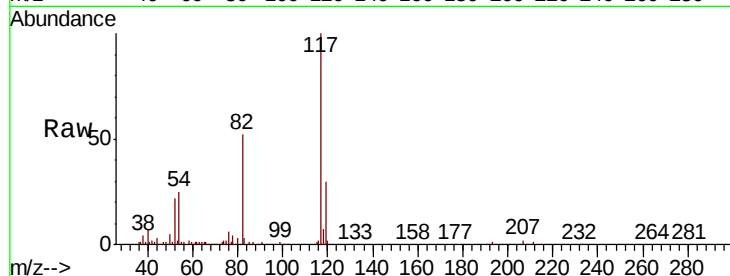




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.00 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

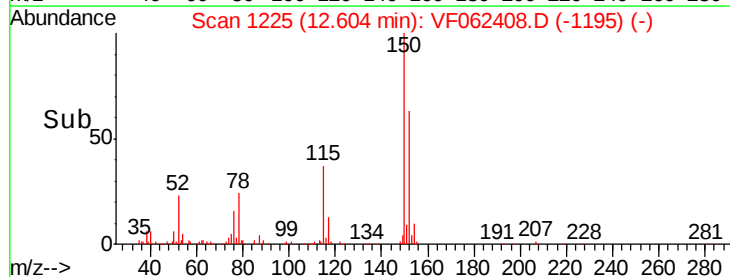
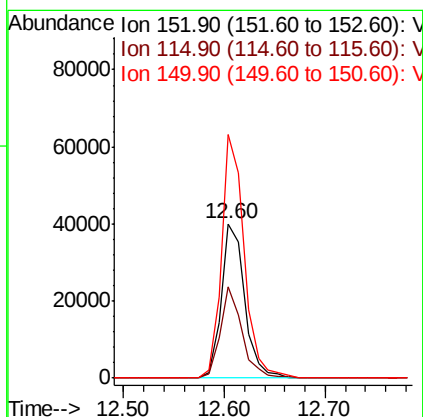
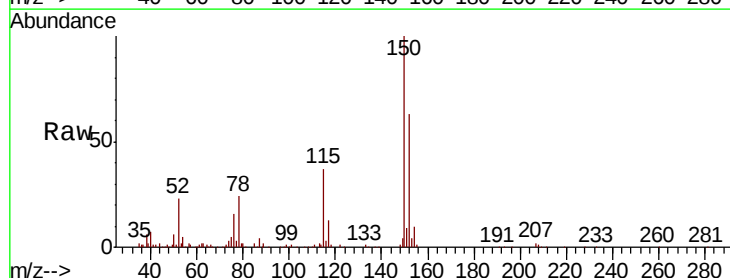
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-A

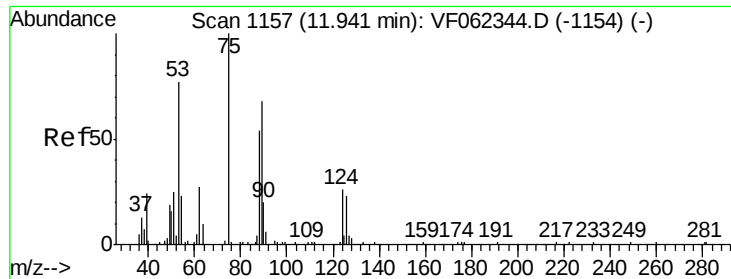
Tgt Ion:117 Resp: 89648
Ion Ratio Lower Upper
117 100
82 52.5 42.2 63.2
119 30.4 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062408.D
Acq: 9 May 2019 21:02

Tgt Ion:152 Resp: 64612
Ion Ratio Lower Upper
152 100
115 55.4 26.4 79.2
150 154.3 0.0 335.0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.006 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-A

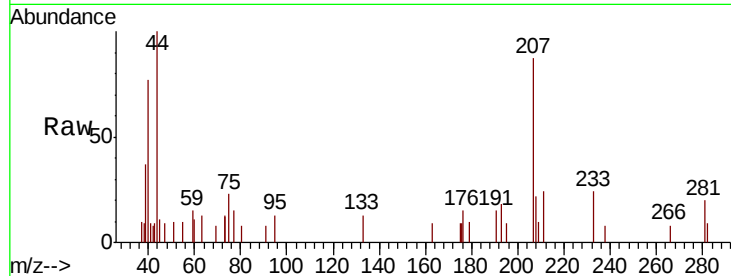
Tgt Ion: 75 Resp: 173

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

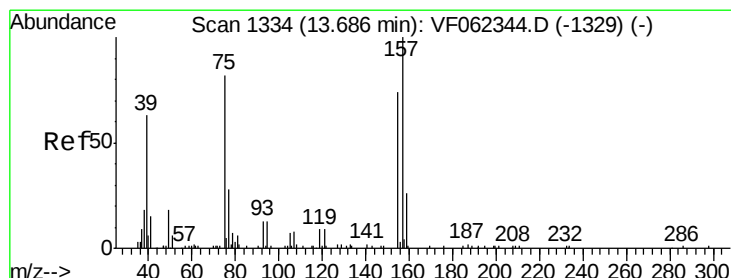
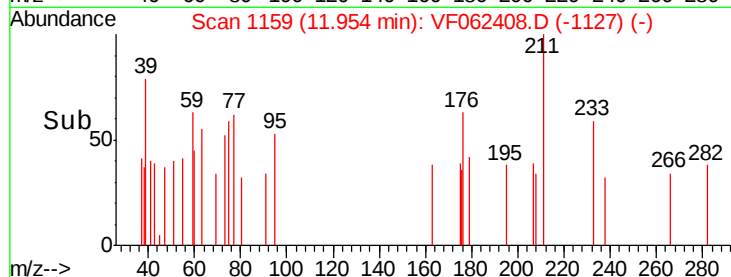
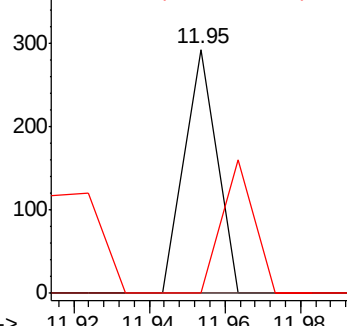
89 54.9 0.0 0.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.146 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.02 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

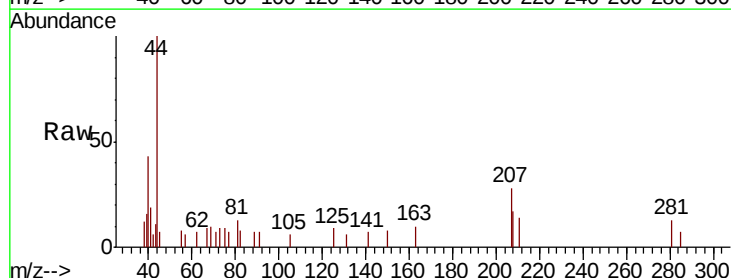
Tgt Ion: 75 Resp: 154

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

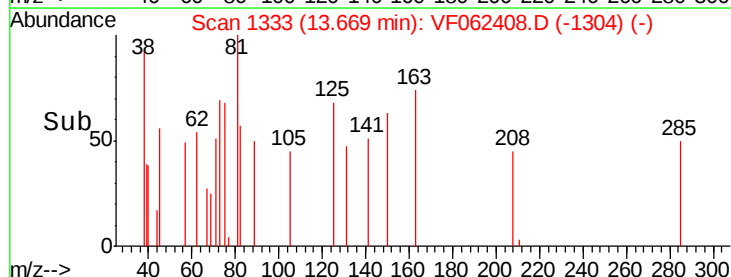
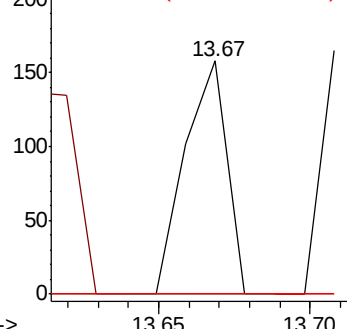
157 0.0 67.3 201.8#

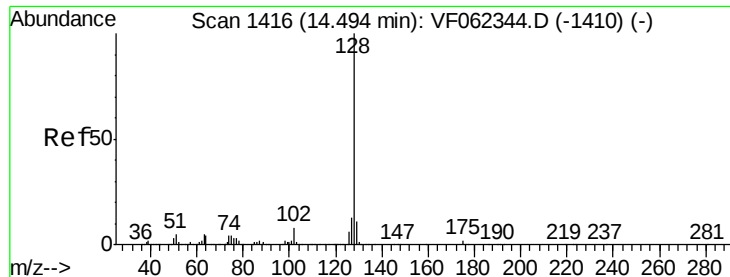


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.042 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF062408.D

Acq: 9 May 2019 21:02

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-A

Tgt Ion:128 Resp: 2496

Ion Ratio Lower Upper

128 100

127 3.4 10.5 15.7#

129 0.0 8.6 12.8#

