

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062513.D
 Acq On : 12 May 2019 19:56
 Operator : FY/SY
 Sample : K2734-19RE
 Misc : 5.56g/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-1218-01RE

Quant Time: May 13 04:48:43 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	5.07	168	119175	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	145679	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	116862	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	43688	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	41979	37.27	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	74.54%	
35) Dibromofluoromethane	4.33	113	50282	43.32	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	86.64%	
50) Toluene-d8	7.73	98	99644	35.47	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	70.94%	
62) 4-Bromofluorobenzene	11.51	95	32768	25.85	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	51.70%	

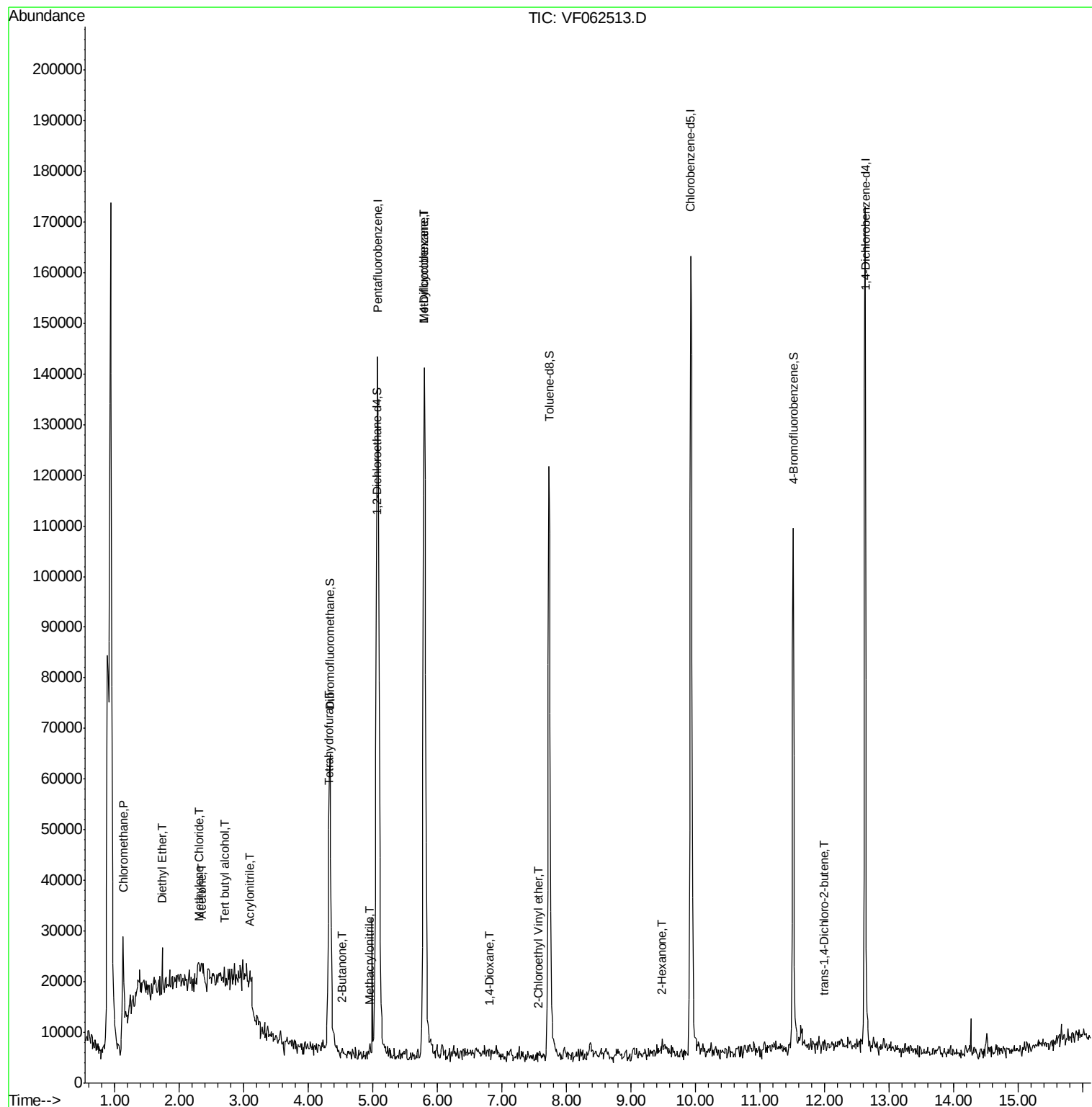
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.14	50	1490	1.638	ug/l #	73
5) Bromomethane	1.44	94	542	Below Cal		89
8) Diethyl Ether	1.72	74	411	1.443	ug/l #	34
11) Tert butyl alcohol	2.70	59	302	4.744	ug/l #	1
13) Acrolein	2.11	56	744	Below Cal	#	1
15) Acrylonitrile	3.10	53	831	6.892	ug/l #	47
16) Acetone	2.35	43	4432	19.453	ug/l #	92
18) Methyl Acetate	2.50	43	428	Below Cal	#	74
20) Methylene Chloride	2.31	84	2013	2.442	ug/l #	85
25) 2-Butanone	4.51	43	917	3.204	ug/l #	60
29) Tetrahydrofuran	4.31	42	151	1.148	ug/l #	66
37) Ethyl Acetate	4.31	43	547	Below Cal	#	96
38) Carbon Tetrachloride	4.15	117	77	Below Cal	#	14
39) Methylcyclohexane	5.79	83	2844	2.266	ug/l #	37
41) Methacrylonitrile	4.94	41	776	2.586	ug/l #	23
49) 1,4-Dioxane	6.82	88	79	6.108	ug/l #	24
58) 2-Chloroethyl Vinyl ether	7.55	63	217	1.267	ug/l #	42
59) 2-Hexanone	9.49	43	442	1.482	ug/l	80
81) trans-1,4-Dichloro-2-buten	11.99	75	366	3.147	ug/l #	5

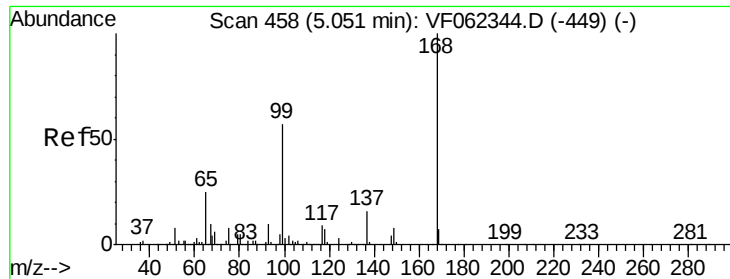
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051219\
Data File : VF062513.D
Acq On : 12 May 2019 19:56
Operator : FY/SY
Sample : K2734-19RE
Misc : 5.56g/5mL/MSVOA F/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01RE

Quant Time: May 13 04:48:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
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: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

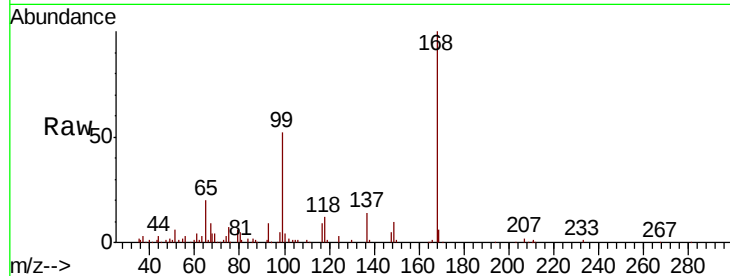
P026-SS014-1218-01RE

Tot Ion:168 Resp: 119175

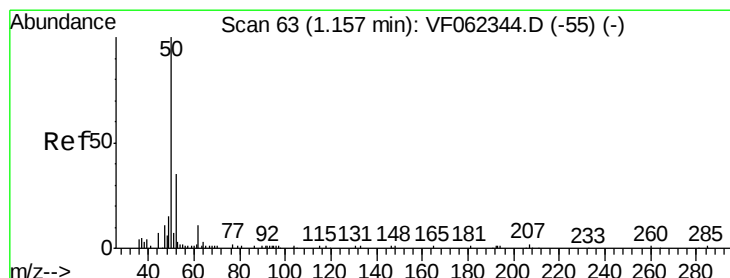
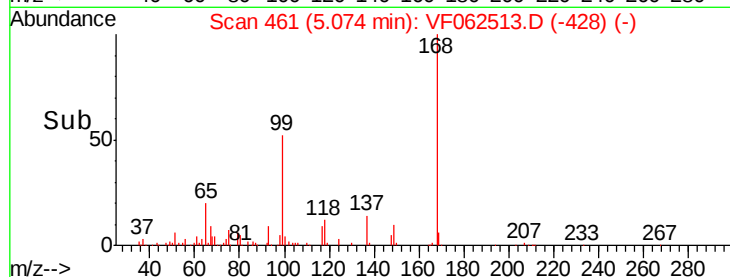
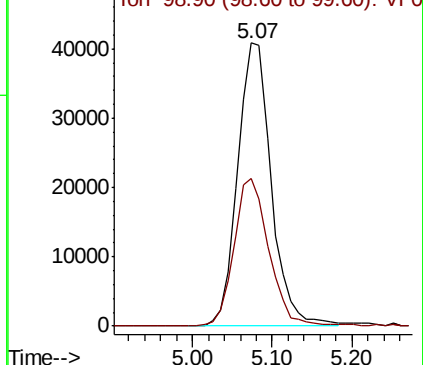
Ion Ratio Lower Upper

168 100

99 52.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#3

Chloromethane

Concen: 1.638 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.02 min

Lab File: VF062513.D

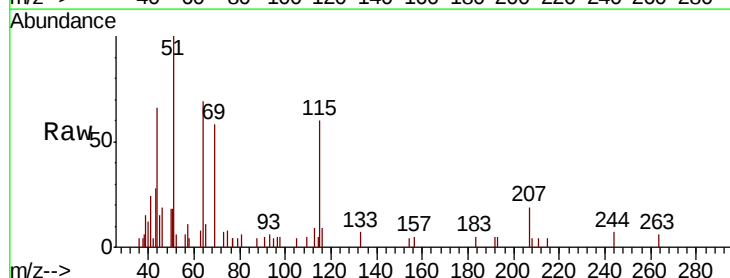
Acq: 12 May 2019 19:56

Tgt Ion: 50 Resp: 1490

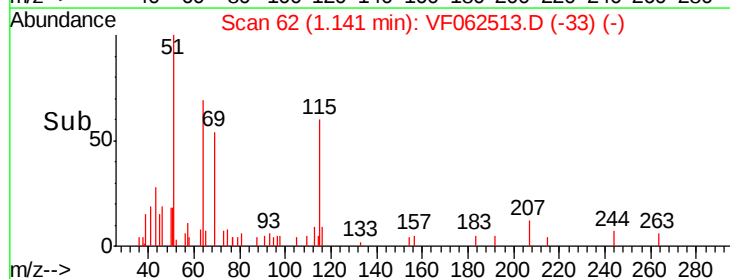
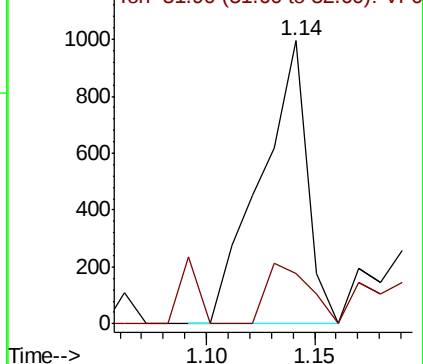
Ion Ratio Lower Upper

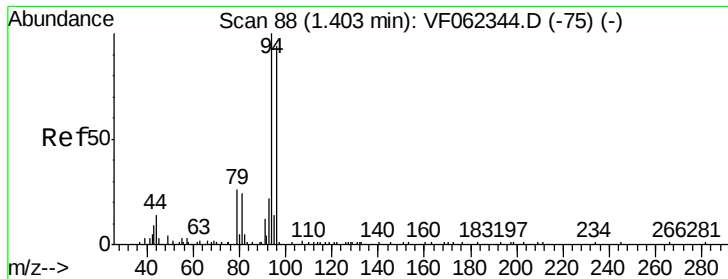
50 100

52 17.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.44 min Scan# 92

Delta R.T. 0.03 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

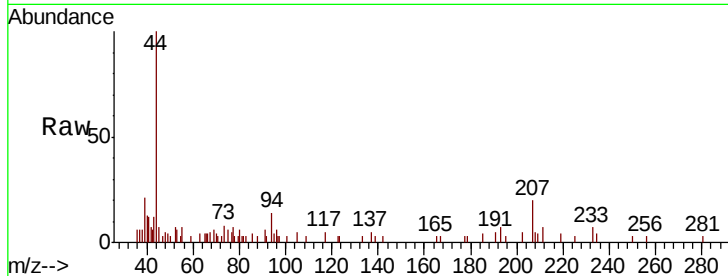
P026-SS014-1218-01RE

Tot Ion: 94 Resp: 542

Ion Ratio Lower Upper

94 100

96 83.7 75.4 113.2



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.44

600

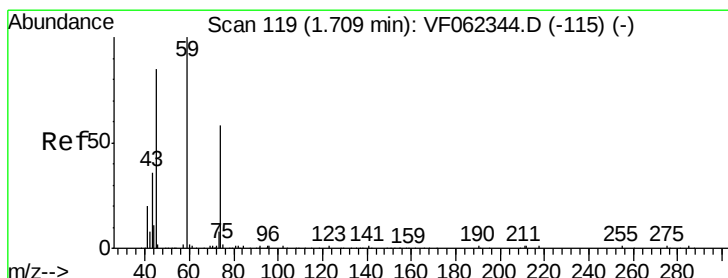
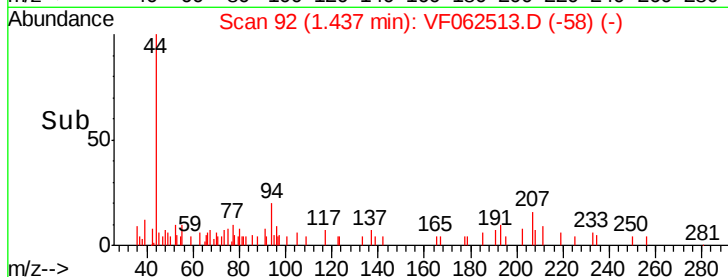
400

200

0

1.40 1.42 1.44 1.46

Time-->



#8

Diethyl Ether

Concen: 1.443 ug/l

RT: 1.72 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062513.D

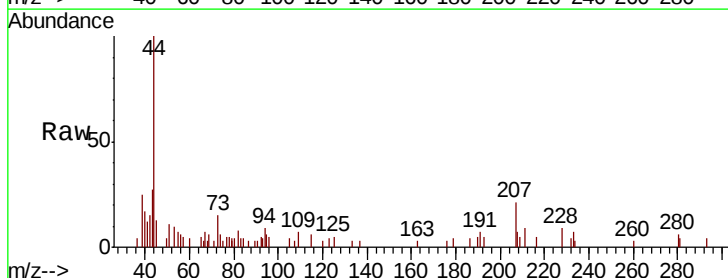
Acq: 12 May 2019 19:56

Tgt Ion: 74 Resp: 411

Ion Ratio Lower Upper

74 100

45 230.2 73.9 221.6#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

600

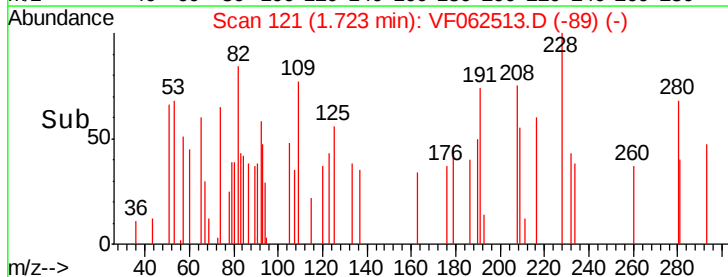
400

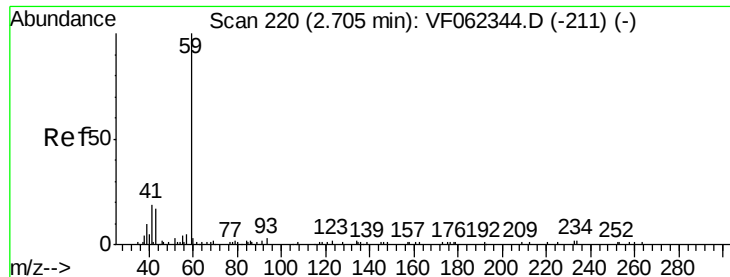
200

0

1.70 1.72 1.75

Time-->



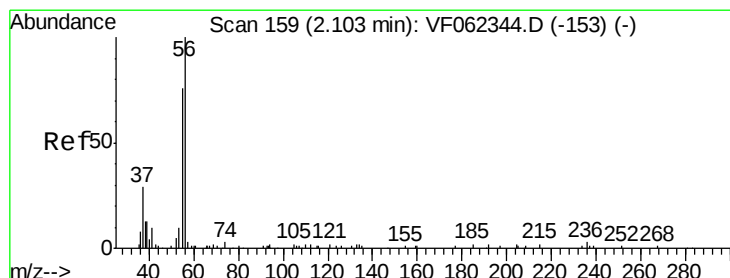
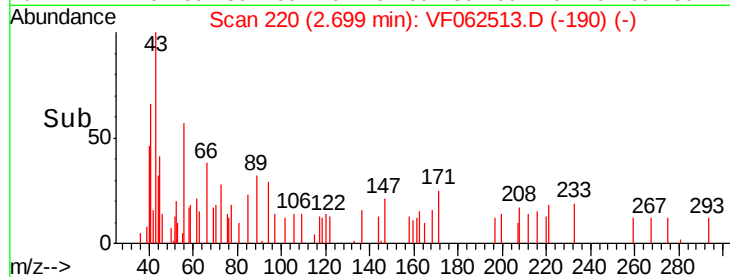
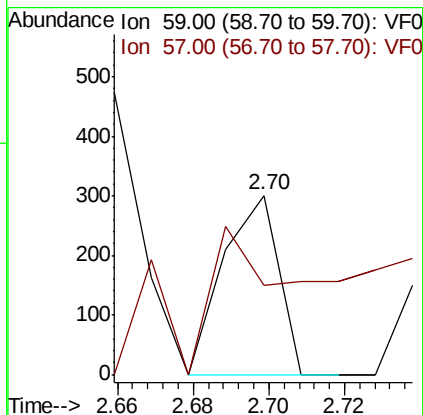
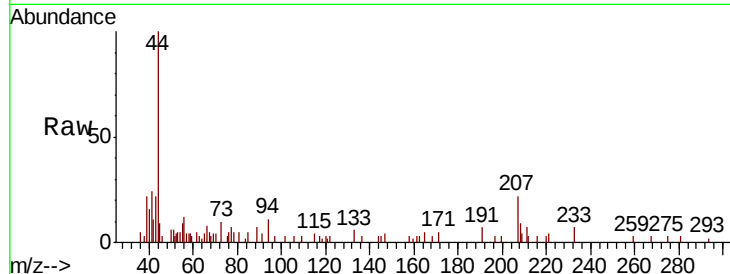


#11

Tert butyl alcohol
Concen: 4.744 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01RE

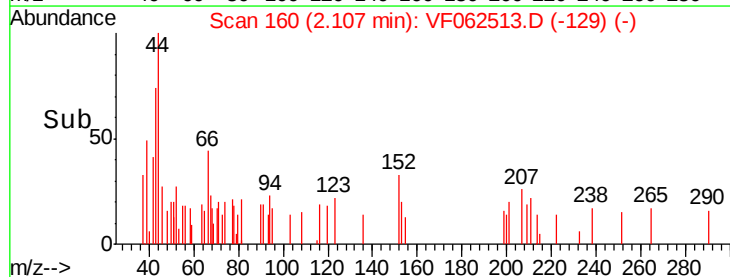
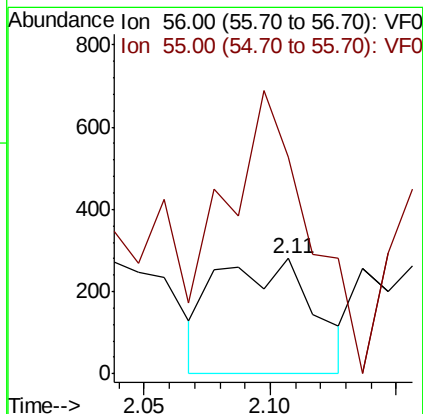
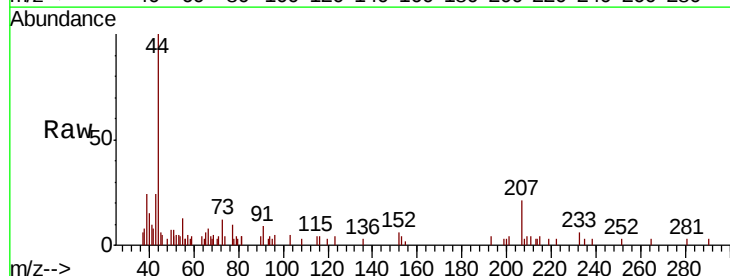
Tot Ion: 59 Resp: 302
Ion Ratio Lower Upper
59 100
57 146.0 9.3 13.9#

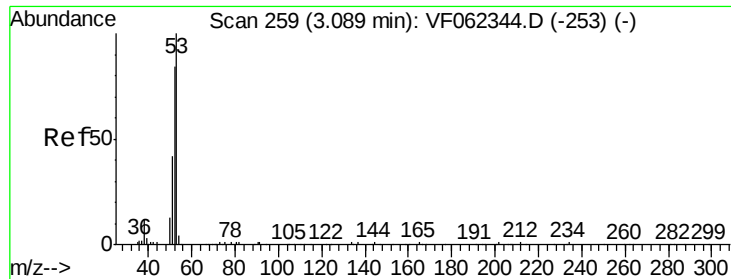


#13

Acrolein
Concen: Below Cal
RT: 2.11 min Scan# 160
Delta R.T. 0.00 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

Tgt Ion: 56 Resp: 744
Ion Ratio Lower Upper
56 100
55 208.5 58.4 87.6#





#15

Acrylonitrile

Concen: 6.892 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01RE

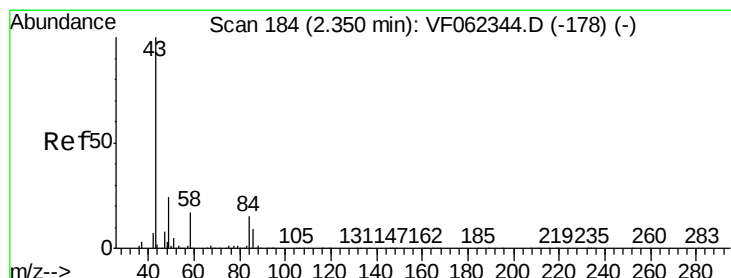
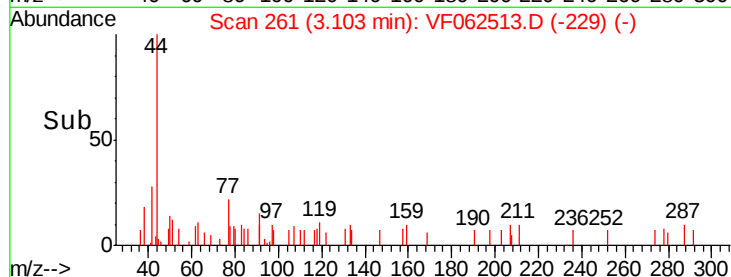
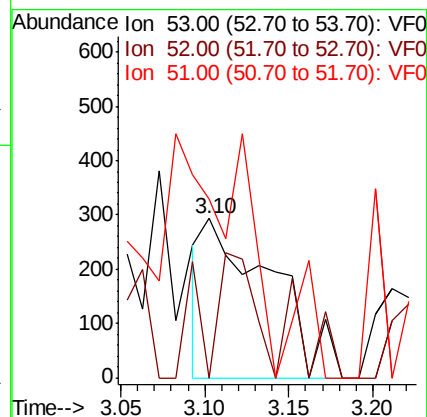
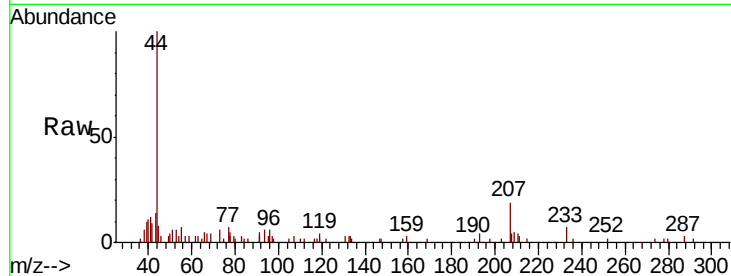
Tot Ion: 53 Resp: 831

Ion Ratio Lower Upper

53 100

52 54.5 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 19.453 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062513.D

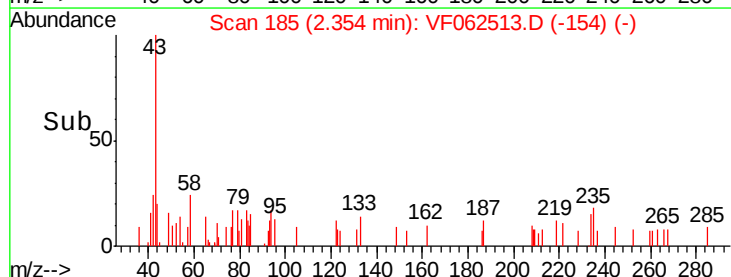
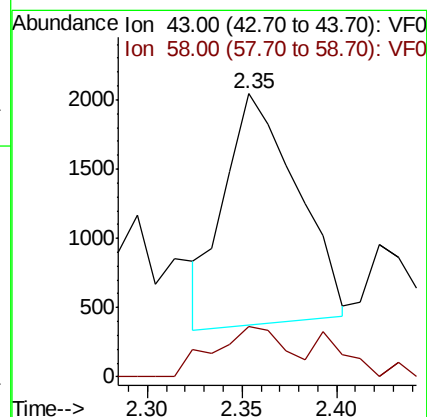
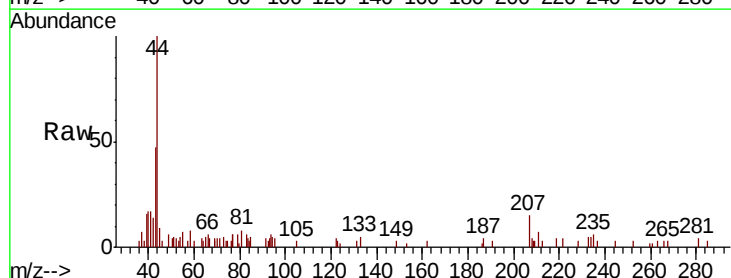
Acq: 12 May 2019 19:56

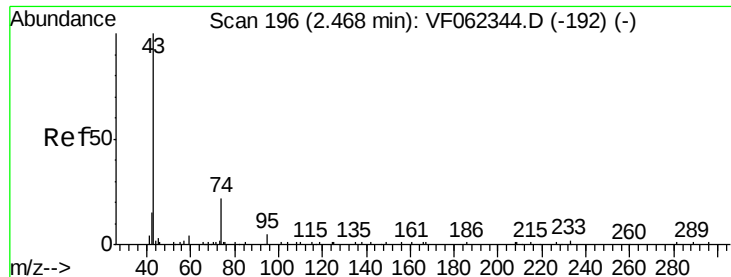
Tgt Ion: 43 Resp: 4432

Ion Ratio Lower Upper

43 100

58 12.9 13.1 19.7#

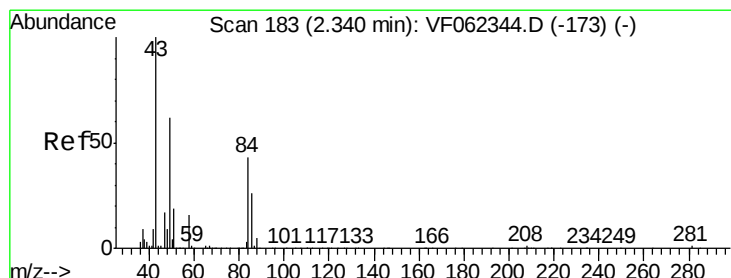
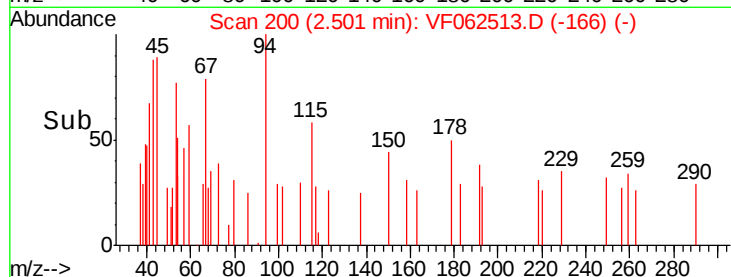
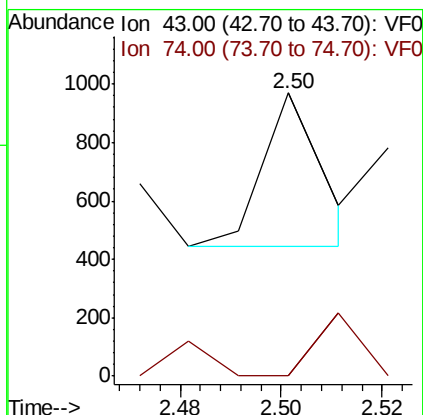
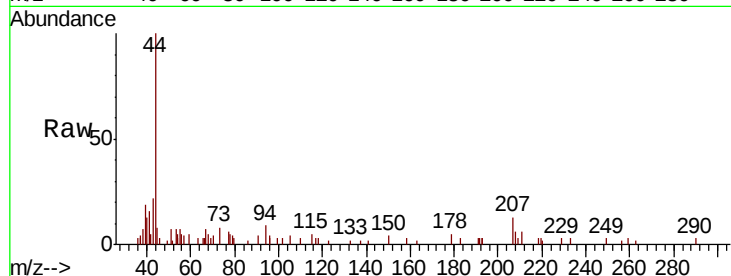




#18
Methyl Acetate
Concen: Below Cal
RT: 2.50 min Scan# 200
Delta R.T. 0.03 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

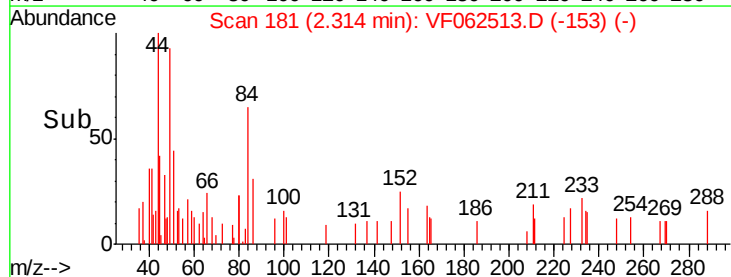
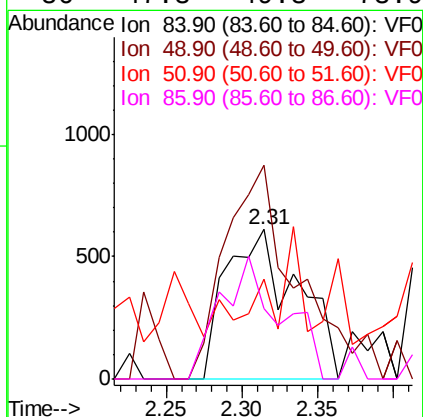
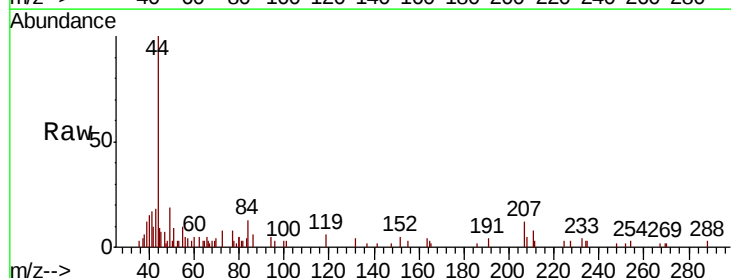
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01RE

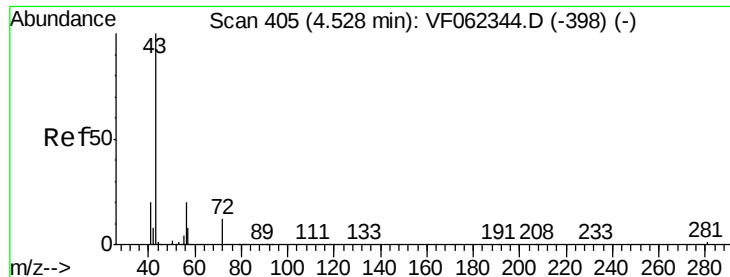
Tot Ion: 43 Resp: 428
Ion Ratio Lower Upper
43 100
74 30.1 15.0 22.4#



#20
Methylene Chloride
Concen: 2.442 ug/l
RT: 2.31 min Scan# 181
Delta R.T. -0.03 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

Tgt Ion: 84 Resp: 2013
Ion Ratio Lower Upper
84 100
49 142.9 117.5 176.3
51 16.4 37.0 55.4#
86 47.3 49.3 73.9#





#25

2-Butanone

Concen: 3.204 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

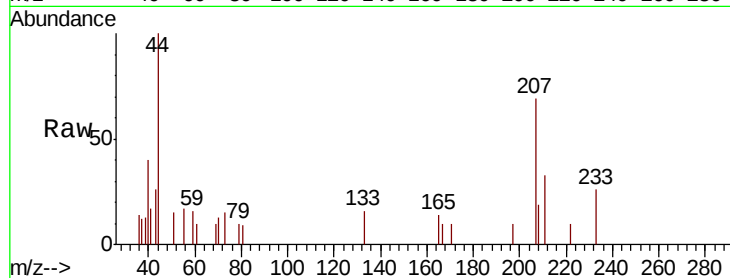
P026-SS014-1218-01RE

Tot Ion: 43 Resp: 917

Ion Ratio Lower Upper

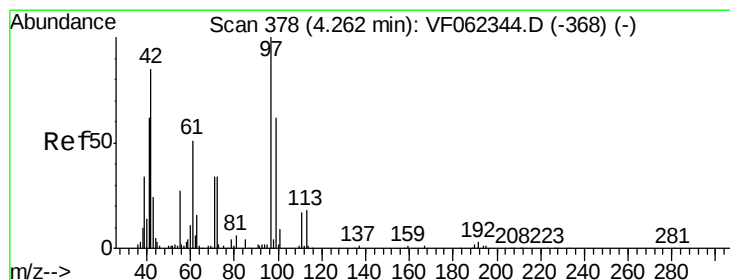
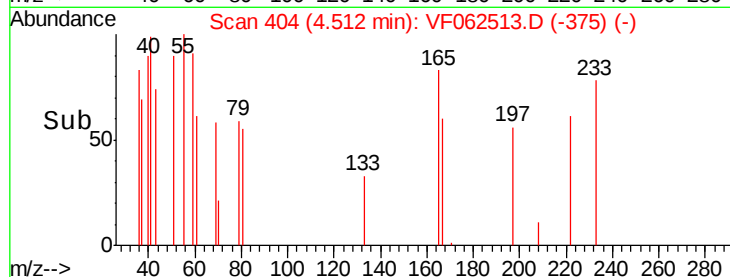
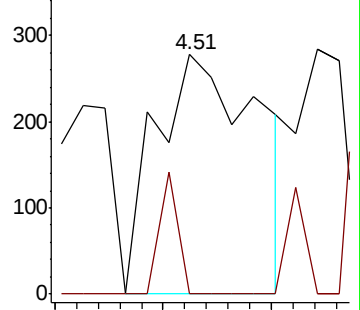
43 100

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



#29

Tetrahydrofuran

Concen: 1.148 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.04 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

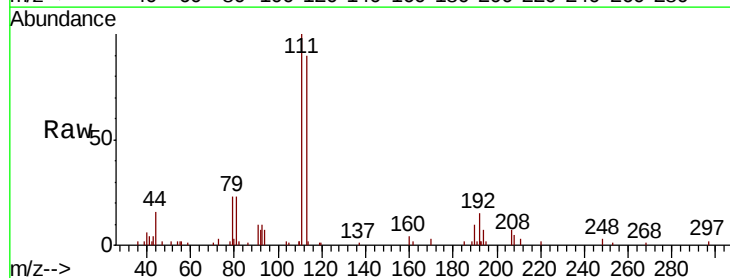
Tgt Ion: 42 Resp: 151

Ion Ratio Lower Upper

42 100

72 41.7 31.4 47.0

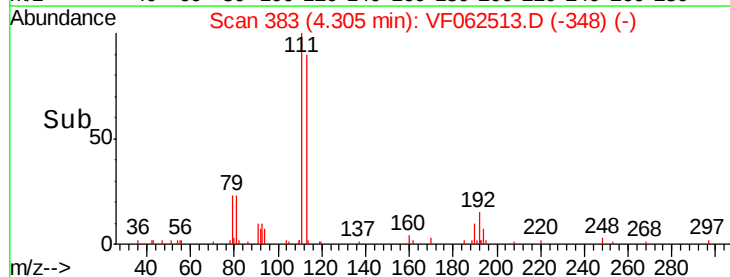
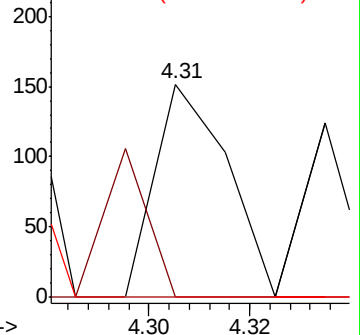
71 0.0 31.7 47.5#

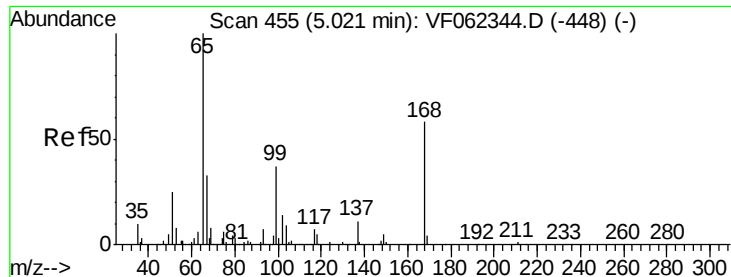


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 37.273 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

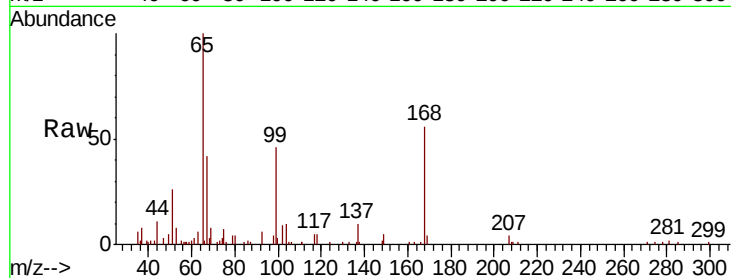
P026-SS014-1218-01RE

Tot Ion: 65 Resp: 41979

Ion Ratio Lower Upper

65 100

67 45.8 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.04

15000

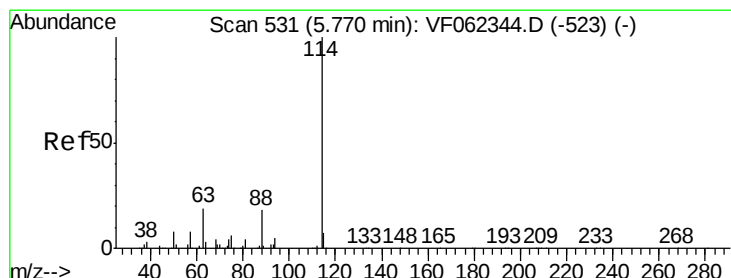
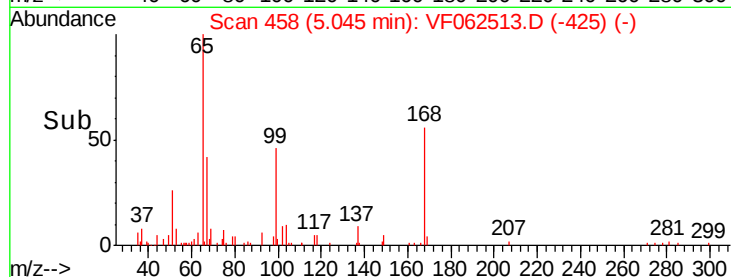
10000

5000

0

Time-->

4.90 5.00 5.10 5.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

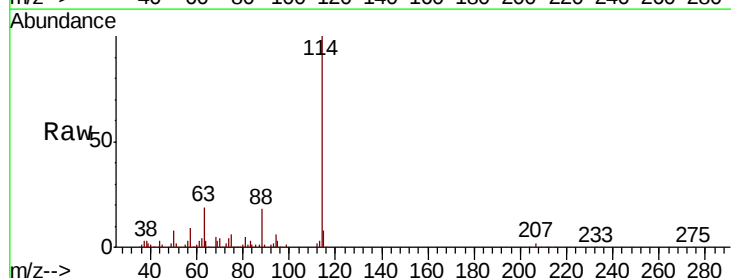
Tgt Ion: 114 Resp: 145679

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.4

88 17.6 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

5.79

60000

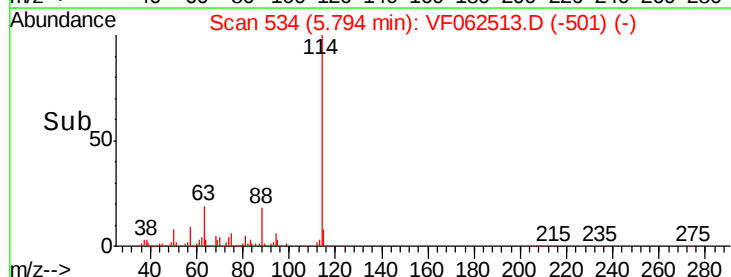
40000

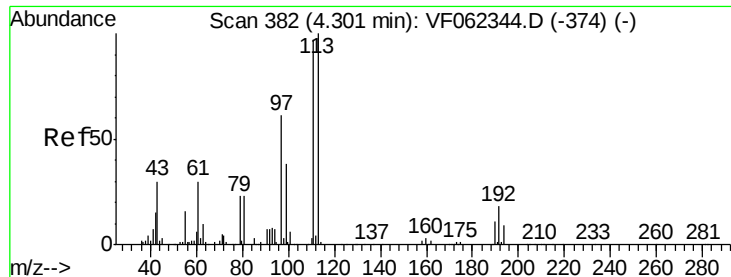
20000

0

Time-->

5.70 5.80 5.90 6.00

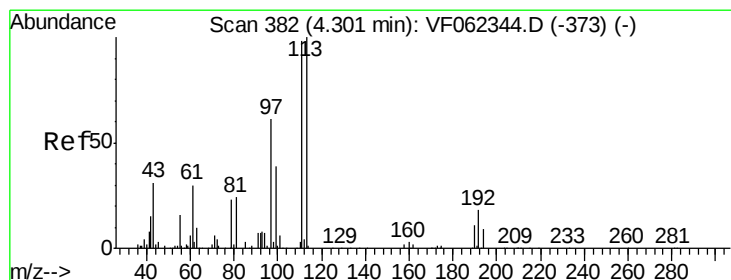
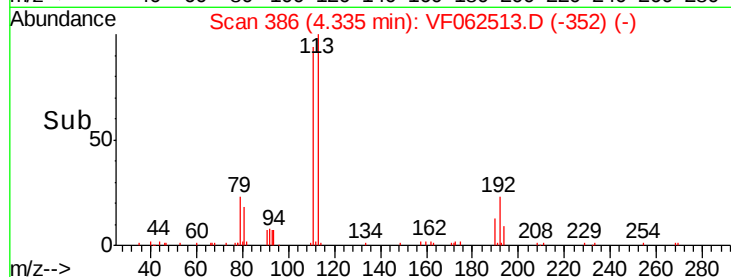
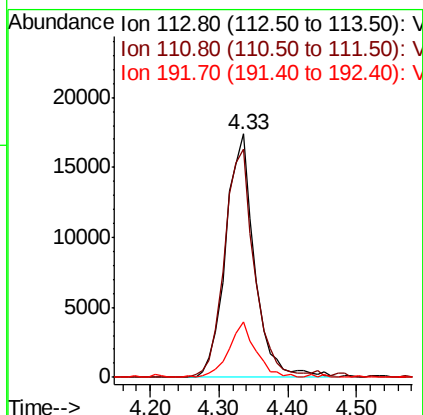
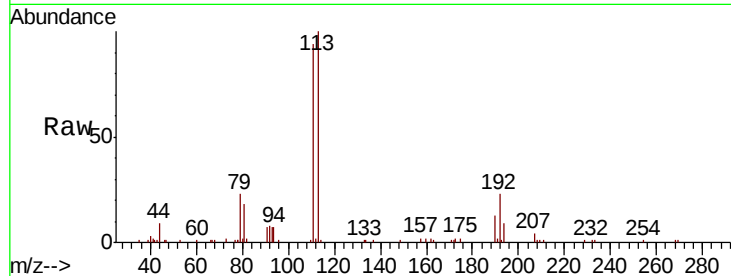




#35
 Dibromofluoromethane
 Concen: 43.324 ug/l
 RT: 4.33 min Scan# 386
 Delta R.T. 0.03 min
 Lab File: VF062513.D
 Acq: 12 May 2019 19:56

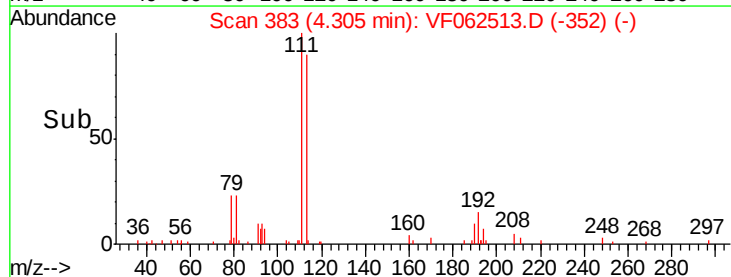
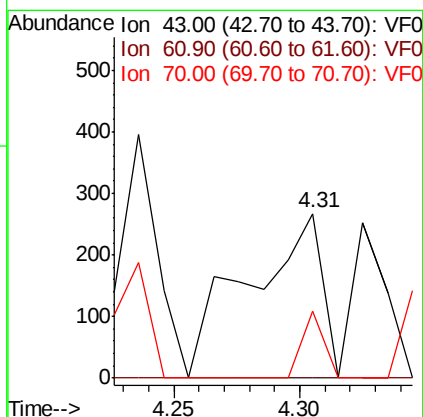
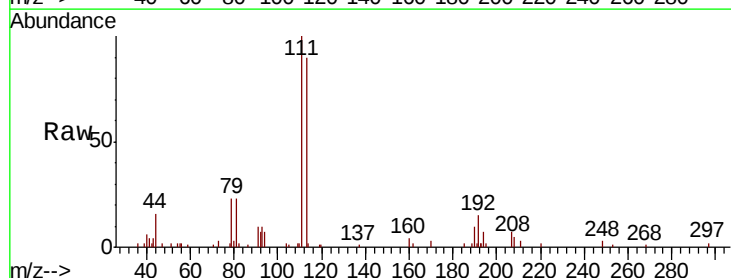
Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-1218-01RE

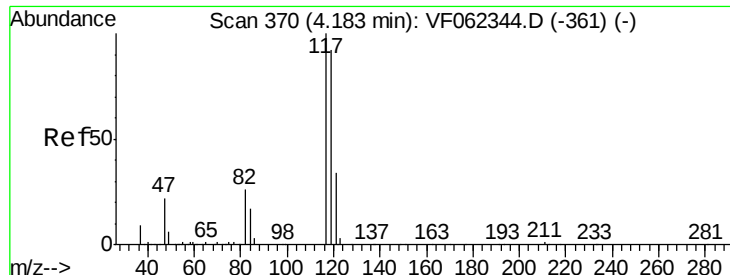
Tot Ion:113 Resp: 50282
 Ion Ratio Lower Upper
 113 100
 111 96.8 79.4 119.0
 192 21.0 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.31 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF062513.D
 Acq: 12 May 2019 19:56

Tgt Ion: 43 Resp: 547
 Ion Ratio Lower Upper
 43 100
 61 0.0 0.0 0.0
 70 11.7 8.2 12.2





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.15 min Scan# 367

Delta R.T. -0.04 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01RE

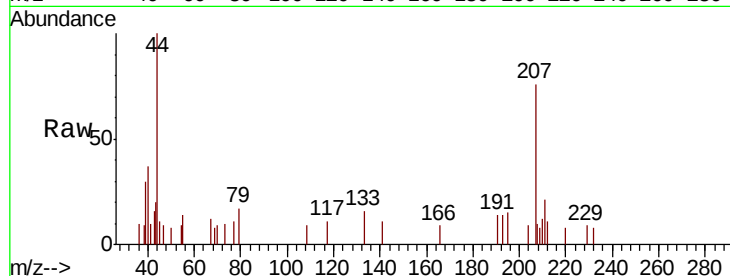
Tot Ion:117 Resp: 77

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

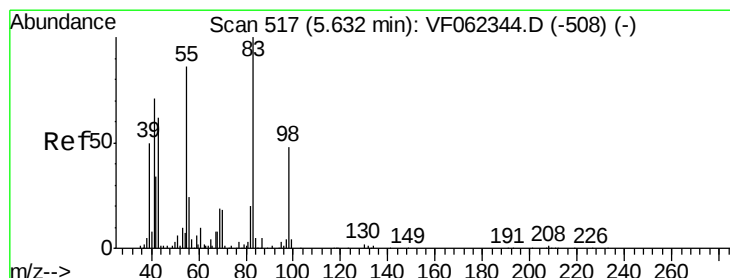
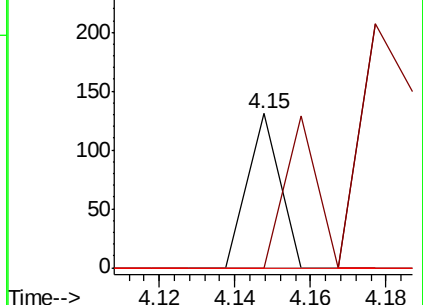
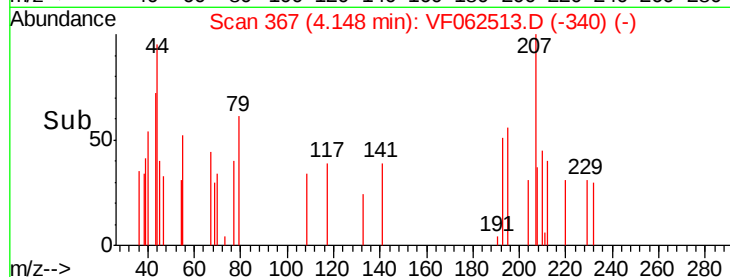
121 0.0 27.4 41.0#



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: 2.266 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

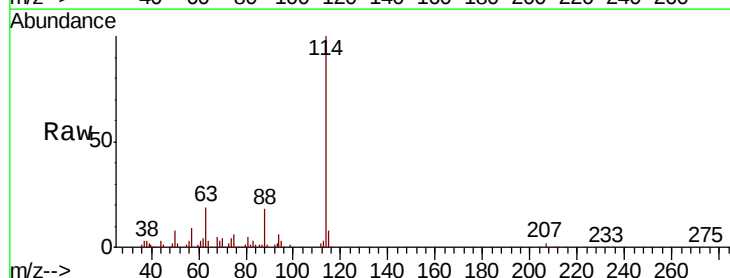
Tgt Ion: 83 Resp: 2844

Ion Ratio Lower Upper

83 100

55 32.2 69.0 103.6#

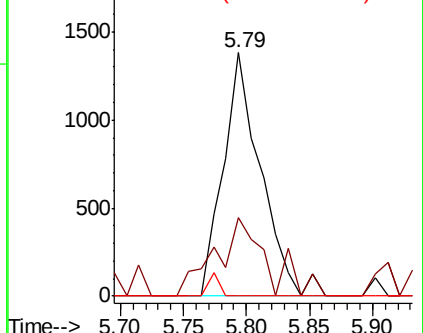
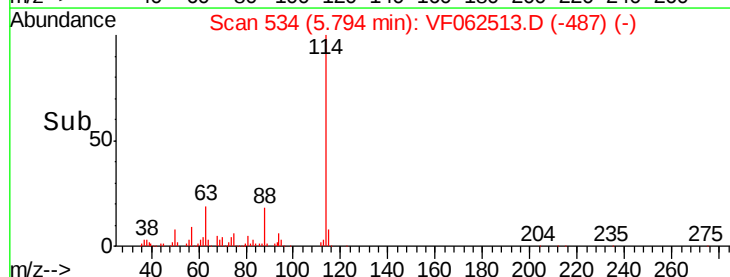
98 0.0 38.6 58.0#

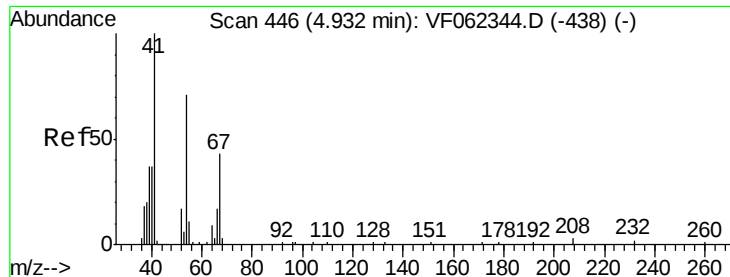


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 2.586 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01RE

Tot Ion: 41 Resp: 776

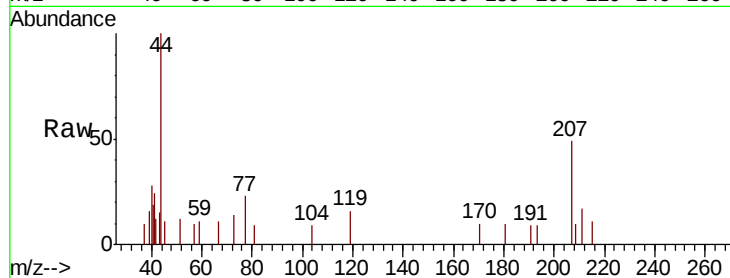
Ion Ratio Lower Upper

41 100

39 0.0 54.3 81.5#

67 0.0 37.8 56.8#

52 10.2 58.2 87.4#

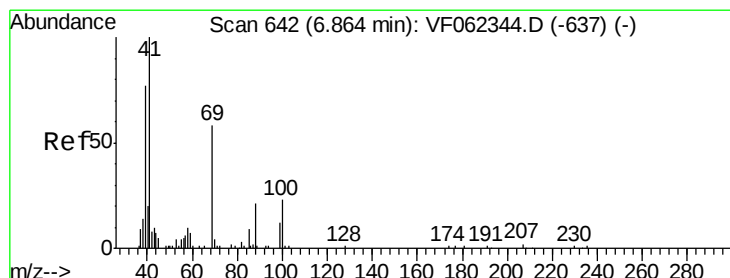
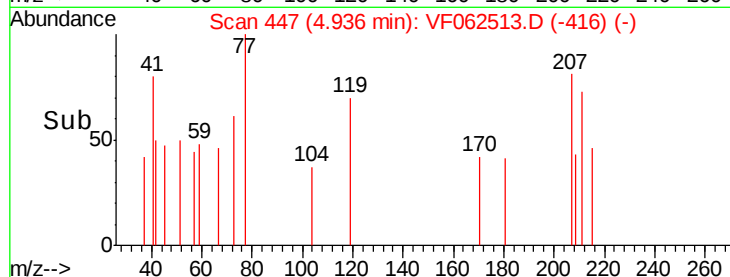
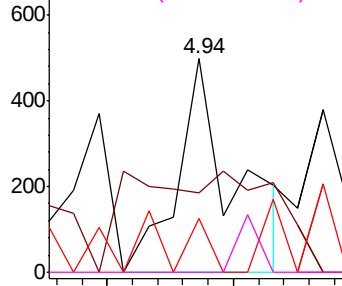


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 6.108 ug/l

RT: 6.82 min Scan# 638

Delta R.T. -0.05 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

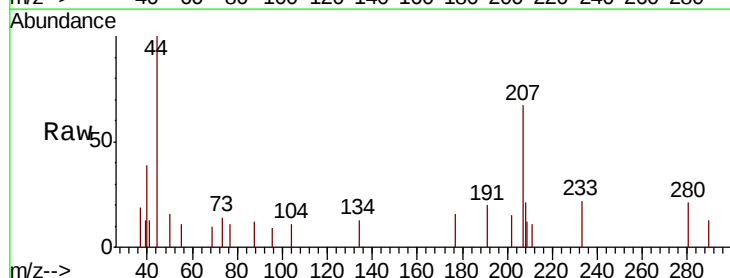
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 126.6 55.6 83.4#

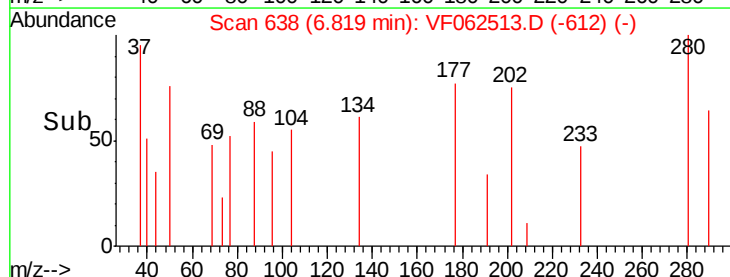
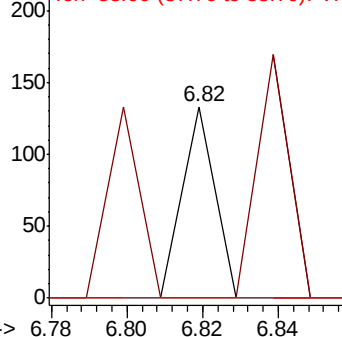
58 0.0 52.8 79.2#

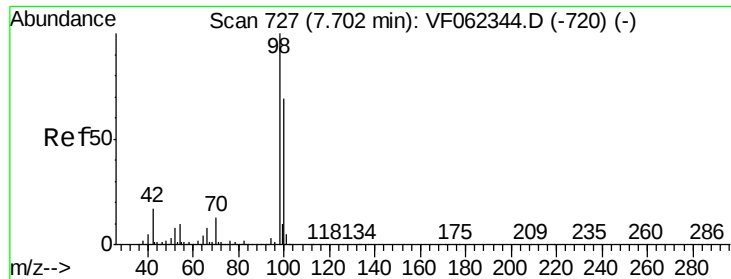


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 35.468 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

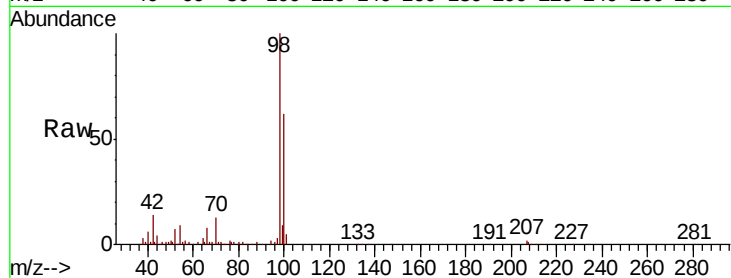
P026-SS014-1218-01RE

Tot Ion: 98 Resp: 99644

Ion Ratio Lower Upper

98 100

100 64.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.73

40000

30000

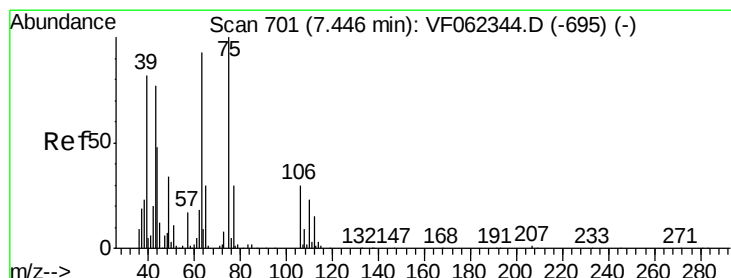
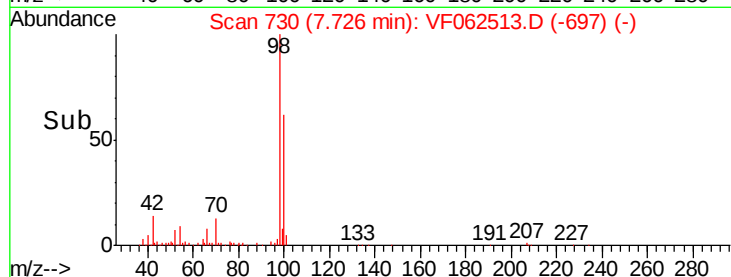
20000

10000

0

Time-->

7.60 7.70 7.80 7.90 8.00



#58

2-Chloroethyl Vinyl ether

Concen: 1.267 ug/l

RT: 7.55 min Scan# 712

Delta R.T. 0.10 min

Lab File: VF062513.D

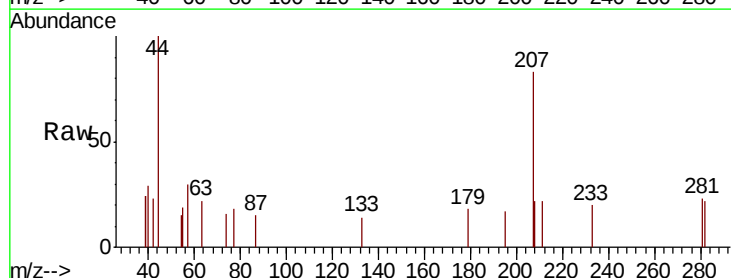
Acq: 12 May 2019 19:56

Tgt Ion: 63 Resp: 217

Ion Ratio Lower Upper

63 100

106 0.0 25.8 38.8#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

7.55

150

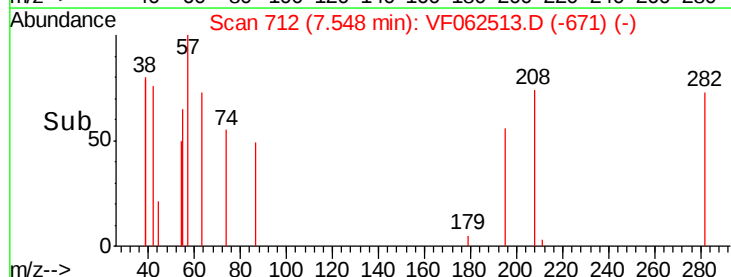
100

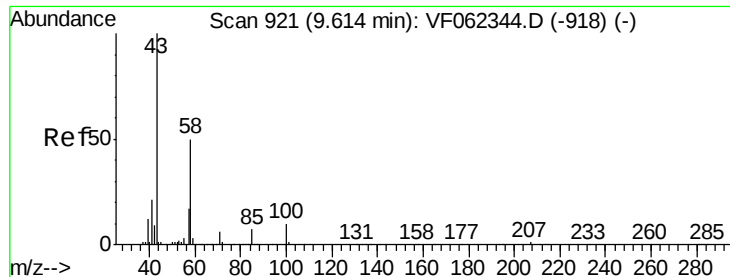
50

0

Time-->

7.50 7.55 7.60

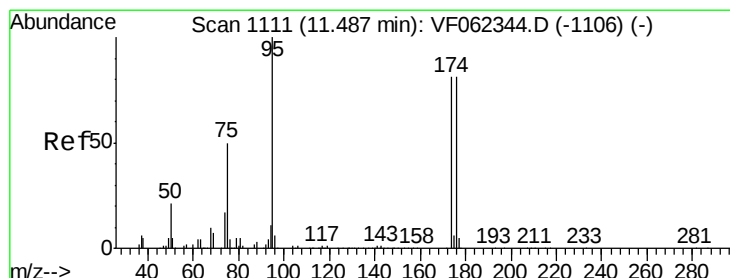
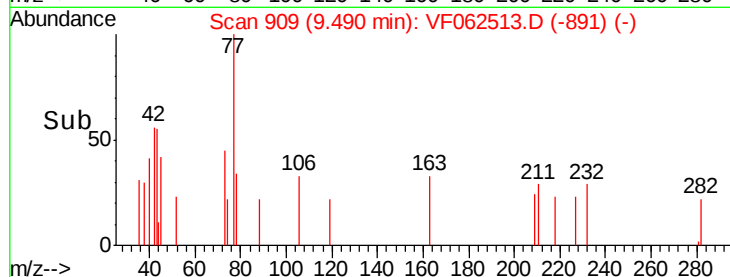
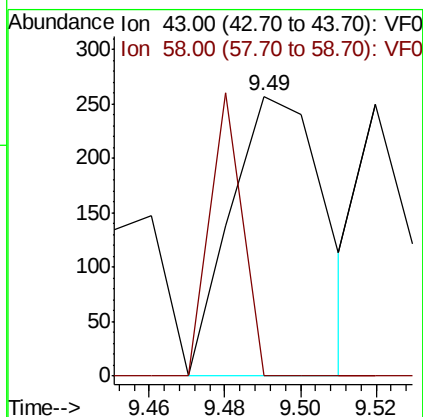
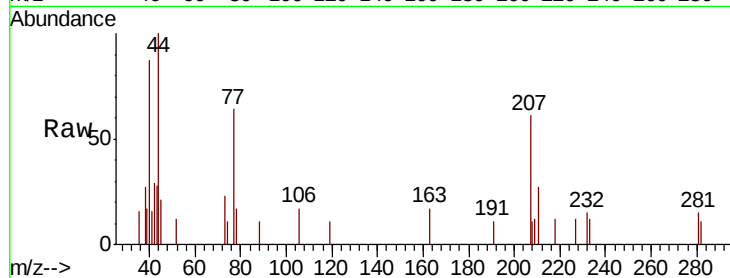




#59
2-Hexanone
Concen: 1.482 ug/l
RT: 9.49 min Scan# 909
Delta R.T. -0.12 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

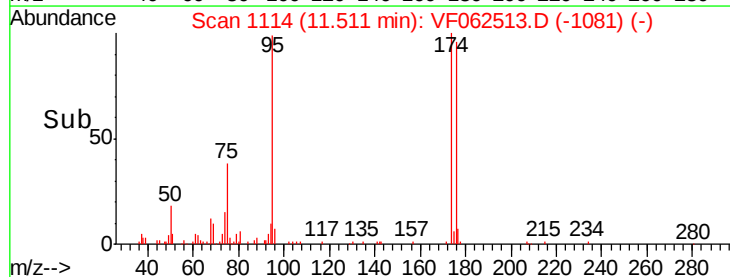
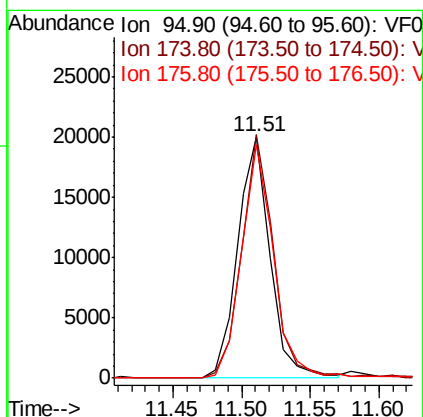
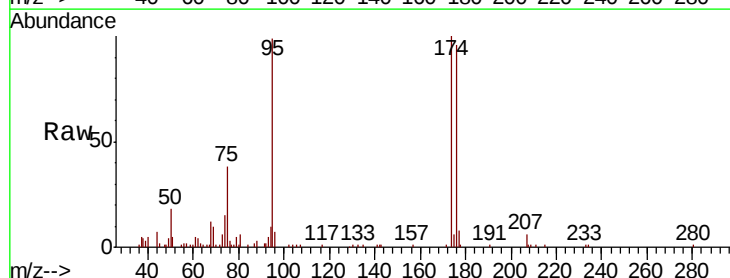
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01RE

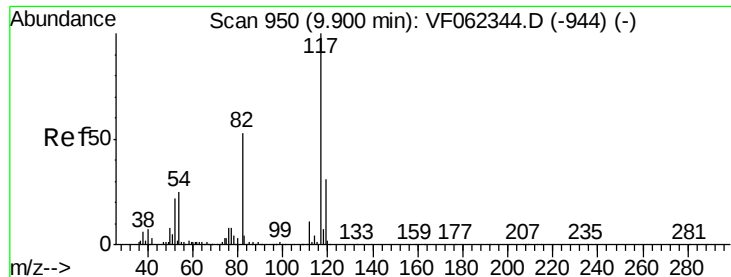
Tot Ion: 43 Resp: 442
Ion Ratio Lower Upper
43 100
58 34.8 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 25.852 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

Tgt Ion: 95 Resp: 32768
Ion Ratio Lower Upper
95 100
174 100.4 0.0 191.8
176 96.9 0.0 193.2

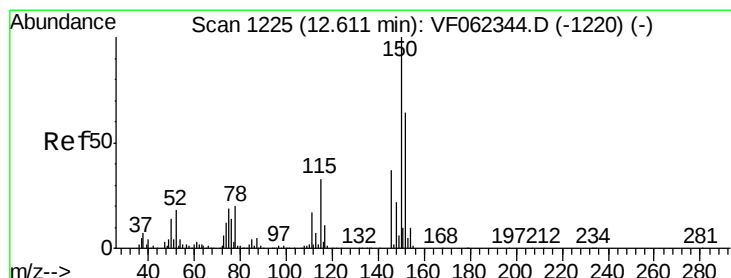
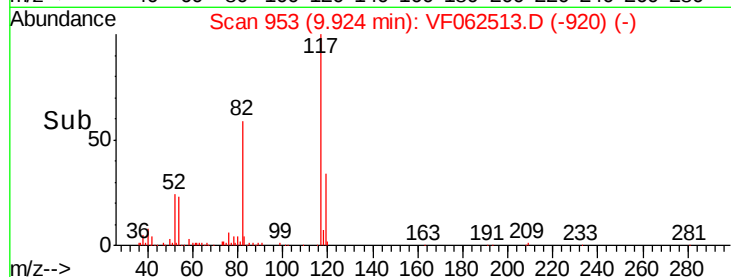
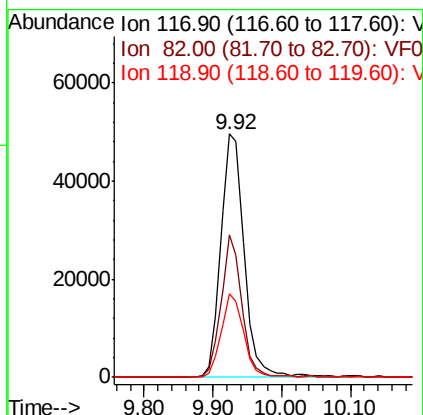
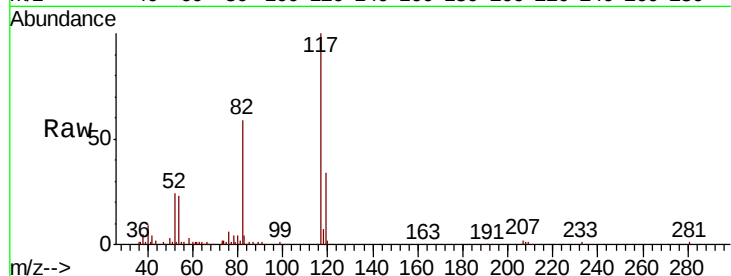




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. 0.02 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

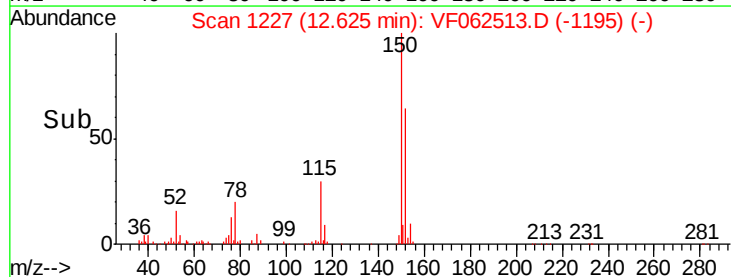
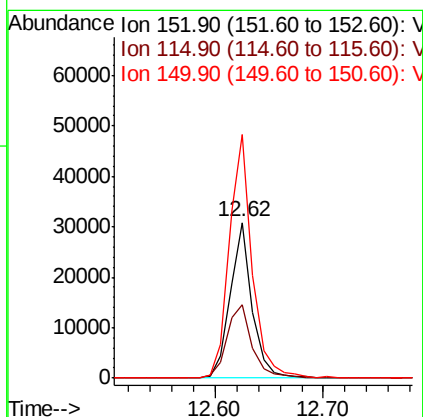
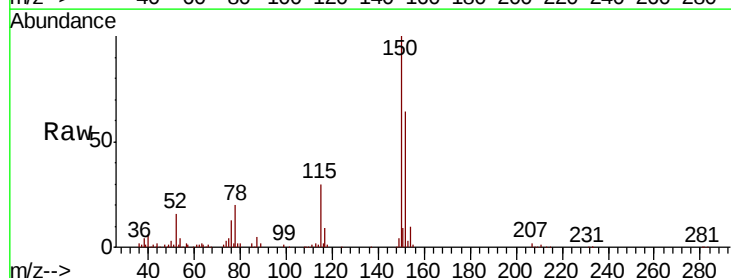
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01RE

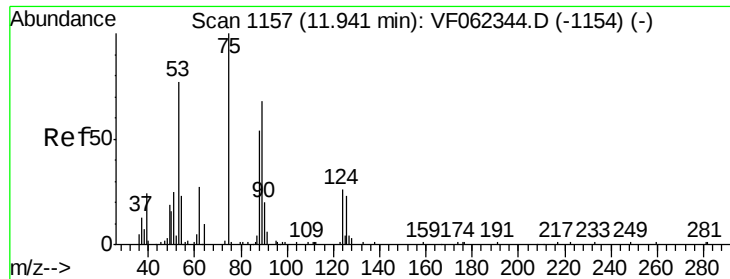
Tot Ion:117 Resp: 116862
Ion Ratio Lower Upper
117 100
82 58.7 42.2 63.2
119 34.1 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF062513.D
Acq: 12 May 2019 19:56

Tgt Ion:152 Resp: 43688
Ion Ratio Lower Upper
152 100
115 54.3 26.4 79.2
150 162.3 0.0 335.0





#81

trans-1,4-Dichloro-2-butene

Concen: 3.147 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. 0.05 min

Lab File: VF062513.D

Acq: 12 May 2019 19:56

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01RE

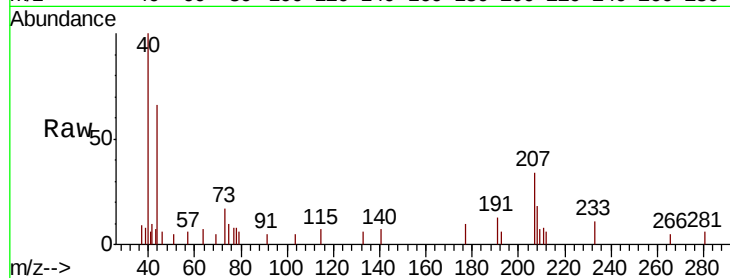
Tot Ion: 75 Resp: 366

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 18.0 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

