

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062510.D
 Acq On : 12 May 2019 18:33
 Operator : FY/SY
 Sample : K2719-17
 Misc : 6.36g/5mL/MSVOA F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS010-1824-01RE

Quant Time: May 13 04:48:04 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	5.08	168	184977	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	233058	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	184896	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	96074	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	64273	36.77	ug/l	0.03
Spiked Amount			Recovery	=	73.54%	
35) Dibromofluoromethane	4.34	113	81244	43.76	ug/l	0.03
Spiked Amount			Recovery	=	87.52%	
50) Toluene-d8	7.73	98	170794	38.00	ug/l	0.02
Spiked Amount			Recovery	=	76.00%	
62) 4-Bromofluorobenzene	11.51	95	62782	30.96	ug/l	0.02
Spiked Amount			Recovery	=	61.92%	

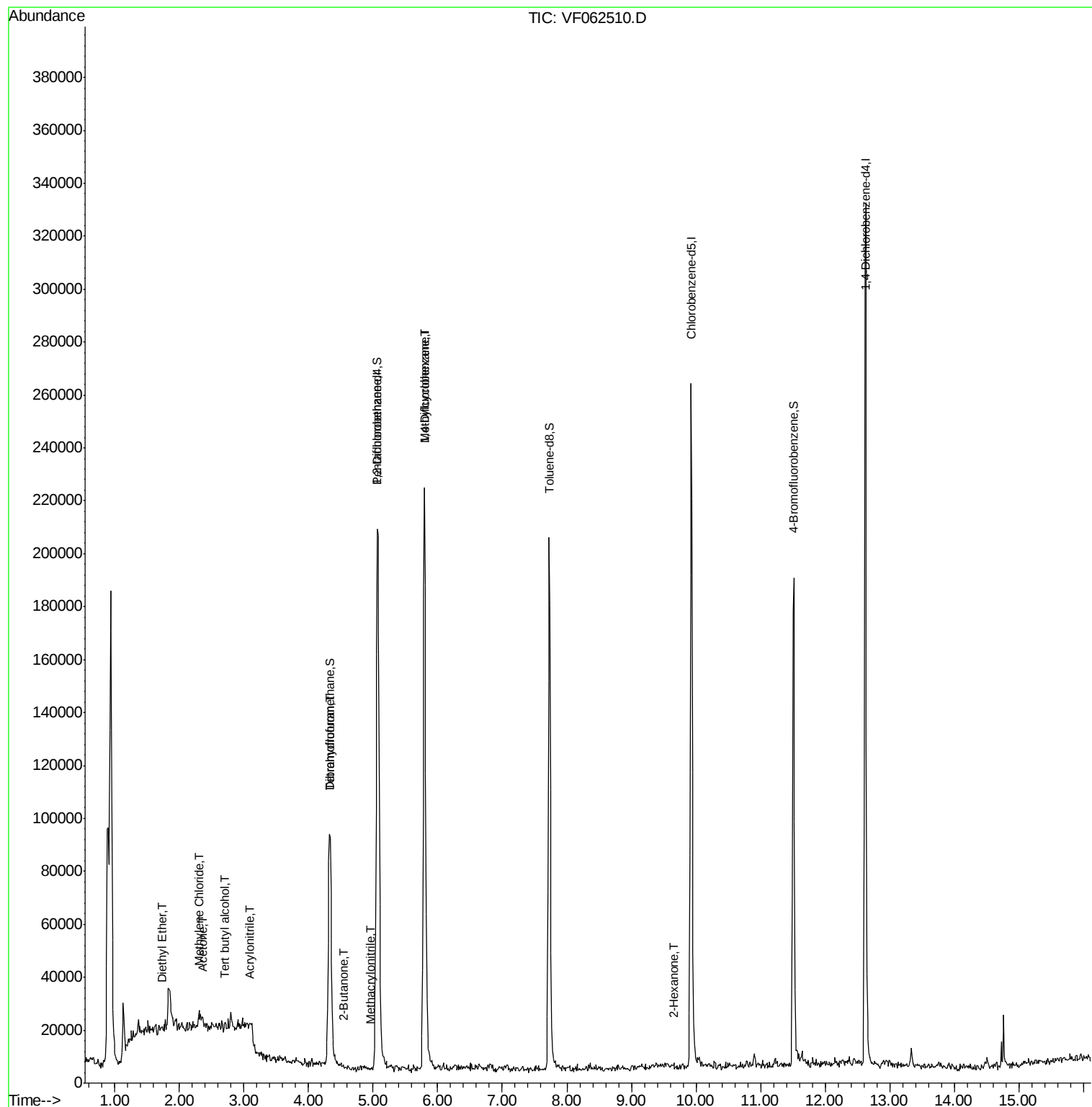
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	821	Below Cal	#	37
8) Diethyl Ether	1.74	74	898	2.031	ug/l #	1
11) Tert butyl alcohol	2.72	59	613	6.205	ug/l #	1
13) Acrolein	2.07	56	722	Below Cal	#	13
15) Acrylonitrile	3.10	53	806	4.307	ug/l #	24
16) Acetone	2.35	43	4410	12.471	ug/l #	62
18) Methyl Acetate	2.50	43	1719	Below Cal	#	68
20) Methylene Chloride	2.31	84	1996	1.560	ug/l #	82
25) 2-Butanone	4.54	43	994	2.237	ug/l #	68
29) Tetrahydrofuran	4.34	42	1232	6.034	ug/l #	36
37) Ethyl Acetate	4.33	43	412	Below Cal	#	71
38) Carbon Tetrachloride	4.20	117	66	Below Cal	#	14
39) Methylcyclohexane	5.79	83	4423	2.203	ug/l #	44
41) Methacrylonitrile	4.96	41	526	1.096	ug/l #	18
49) 1,4-Dioxane	6.75	88	63	Below Cal	#	24
59) 2-Hexanone	9.66	43	529	1.108	ug/l #	56

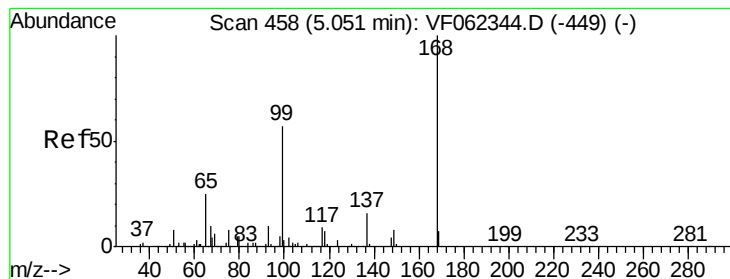
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051219\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

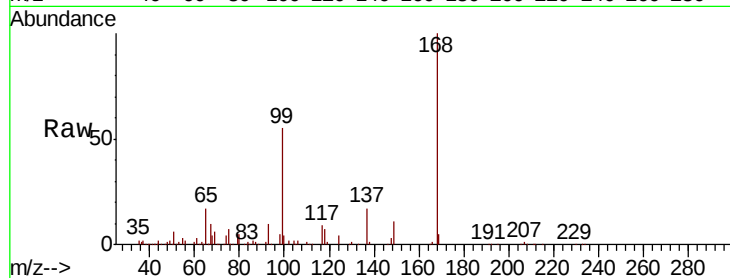
P026-SS010-1824-01RE

Tot Ion:168 Resp: 184977

Ion Ratio Lower Upper

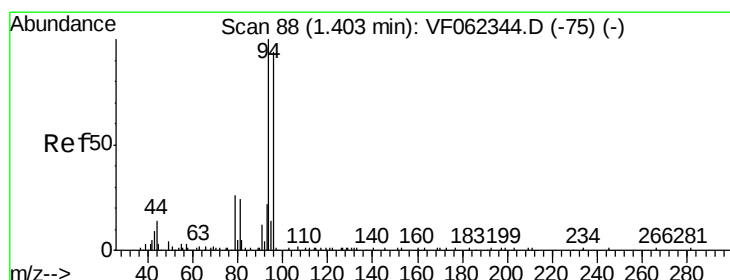
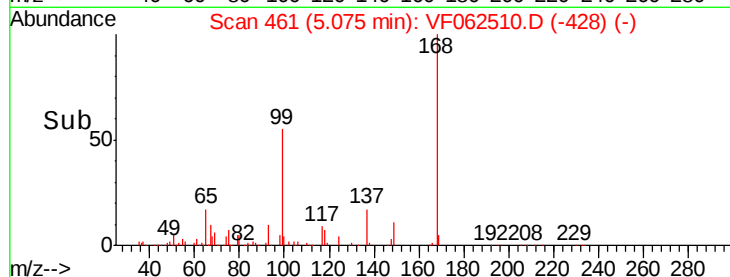
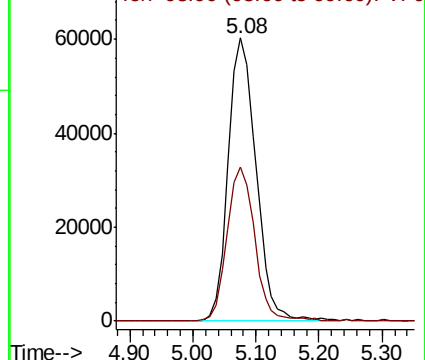
168 100

99 54.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062510.D

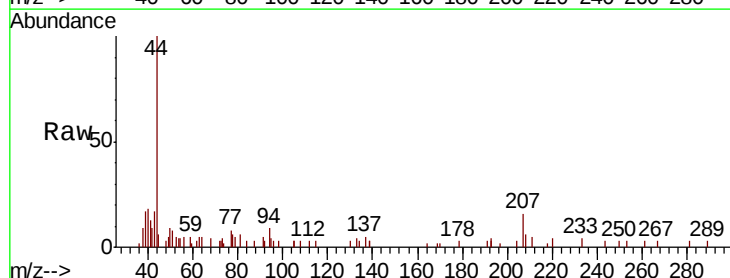
Acq: 12 May 2019 18:33

Tgt Ion: 94 Resp: 821

Ion Ratio Lower Upper

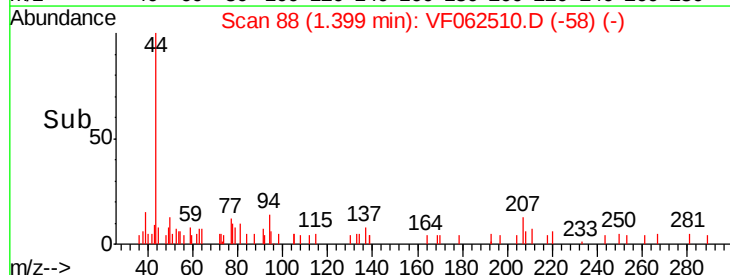
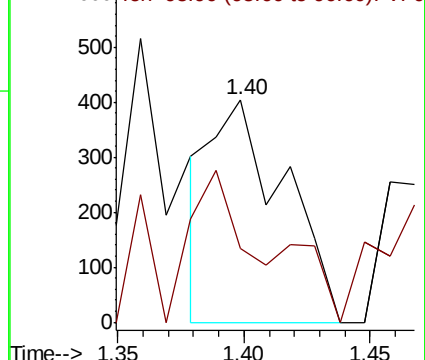
94 100

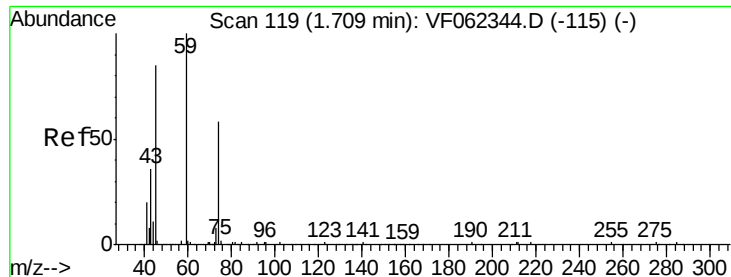
96 33.1 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0





#8

Diethyl Ether

Concen: 2.031 ug/l

RT: 1.74 min Scan# 123

Delta R.T. 0.03 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

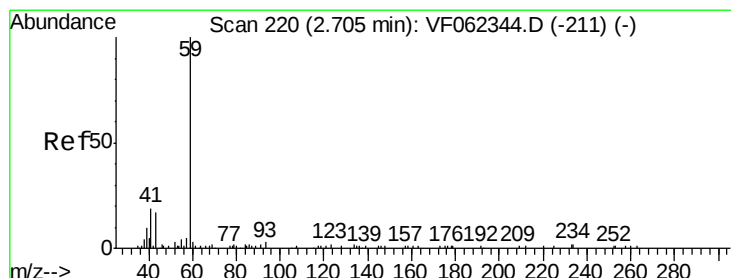
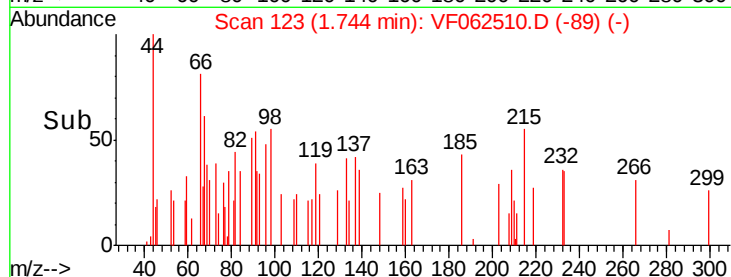
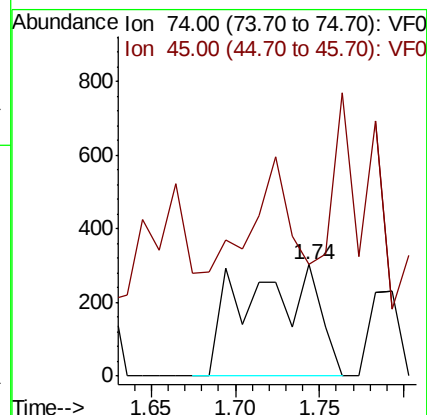
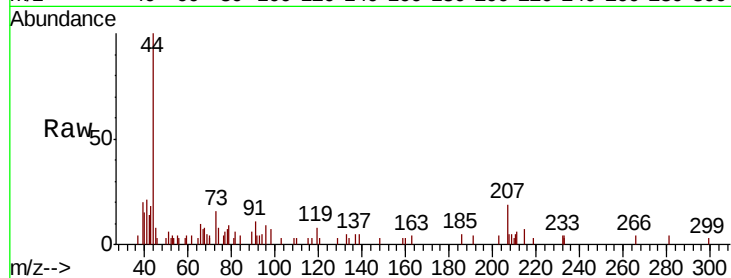
P026-SS010-1824-01RE

Tot Ion: 74 Resp: 898

Ion Ratio Lower Upper

74 100

45 0.0 73.9 221.6#



#11

Tert butyl alcohol

Concen: 6.205 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062510.D

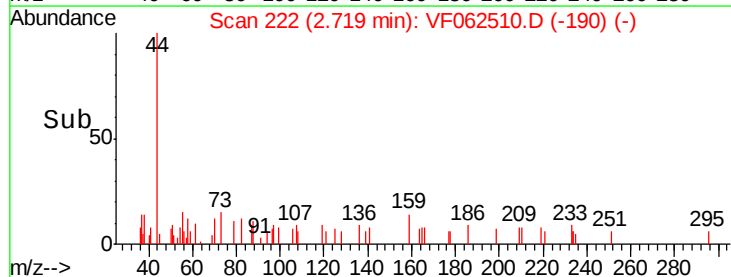
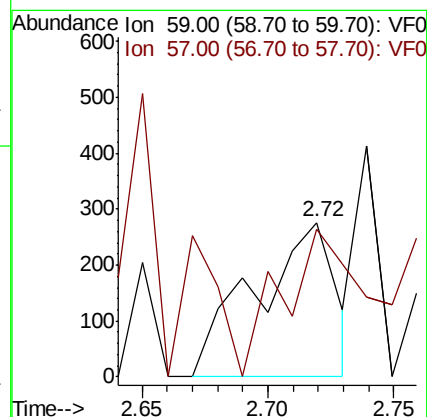
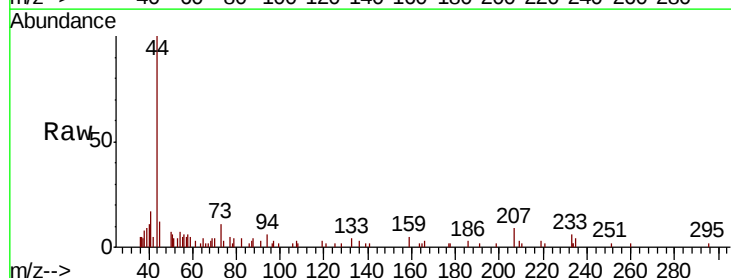
Acq: 12 May 2019 18:33

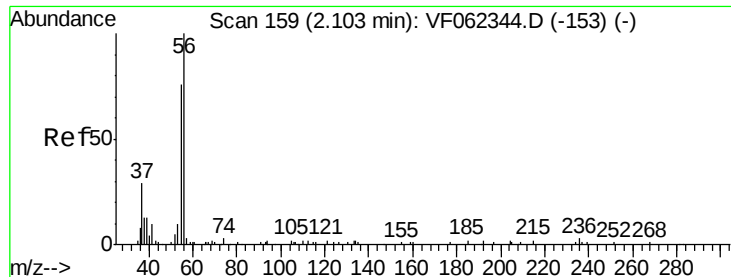
Tgt Ion: 59 Resp: 613

Ion Ratio Lower Upper

59 100

57 100.0 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.07 min Scan# 156

Delta R.T. -0.03 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

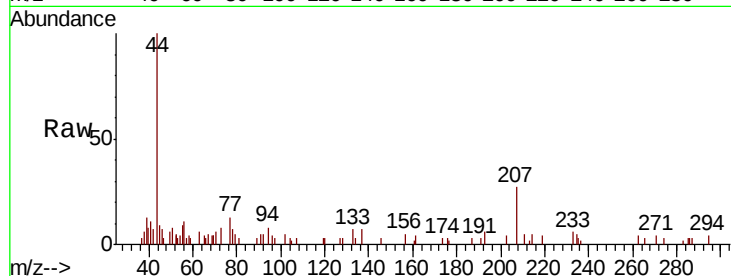
P026-SS010-1824-01RE

Tot Ion: 56 Resp: 722

Ion Ratio Lower Upper

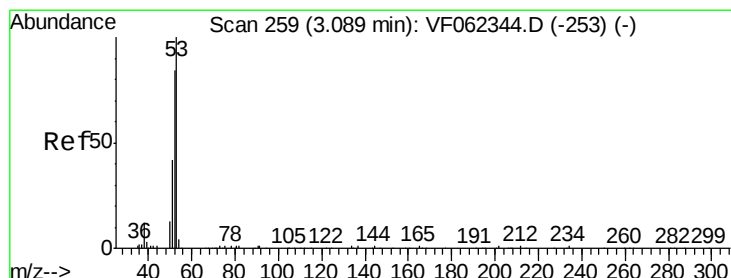
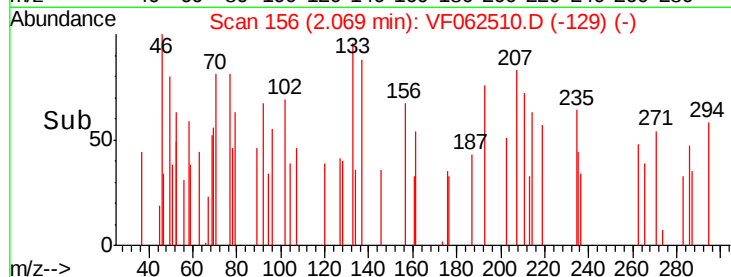
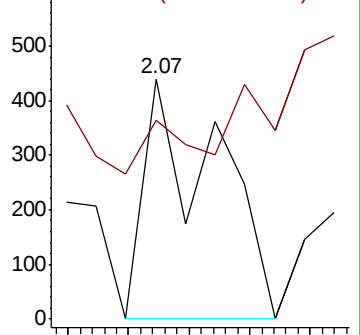
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 4.307 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

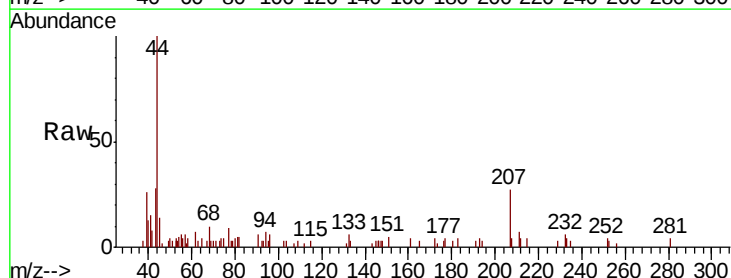
Tgt Ion: 53 Resp: 806

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

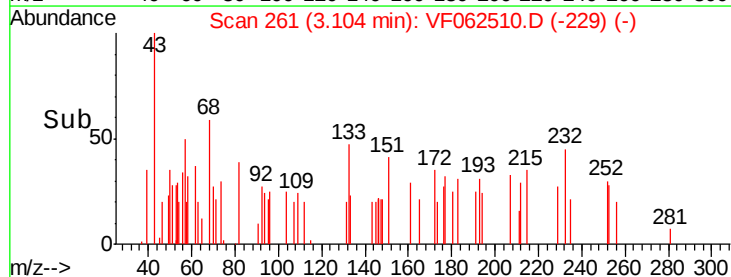
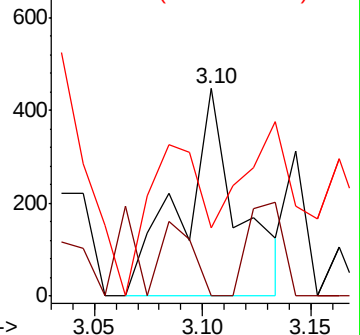
51 73.1 40.6 61.0#

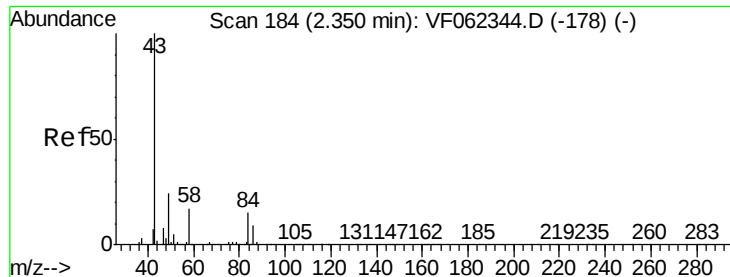


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 12.471 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

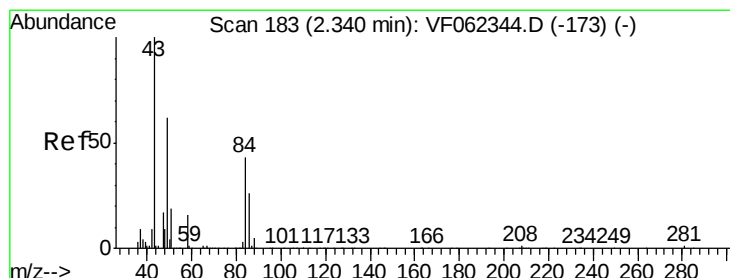
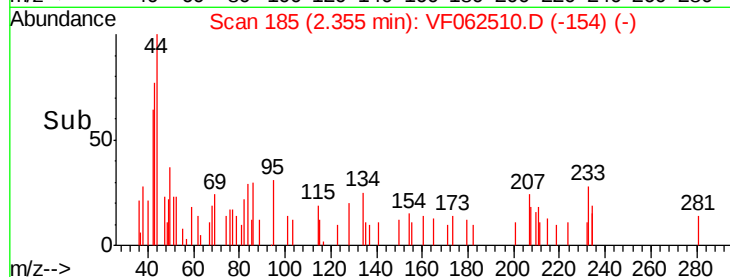
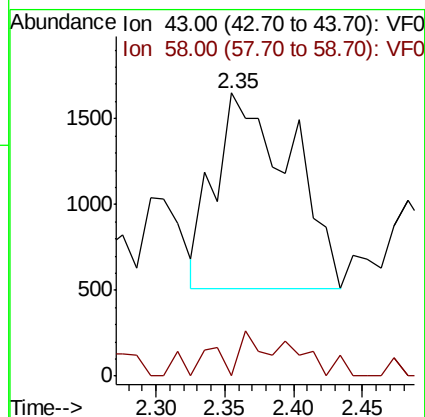
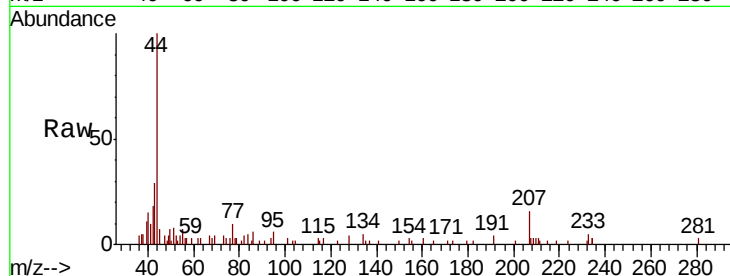
P026-SS010-1824-01RE

Tot Ion: 43 Resp: 4410

Ion Ratio Lower Upper

43 100

58 0.0 13.1 19.7#



#20

Methylene Chloride

Concen: 1.560 ug/l

RT: 2.31 min Scan# 180

Delta R.T. -0.03 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Tgt Ion: 84 Resp: 1996

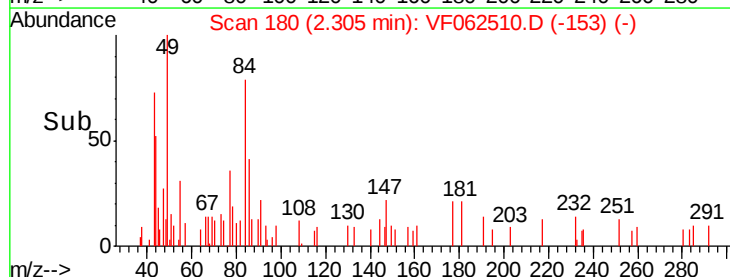
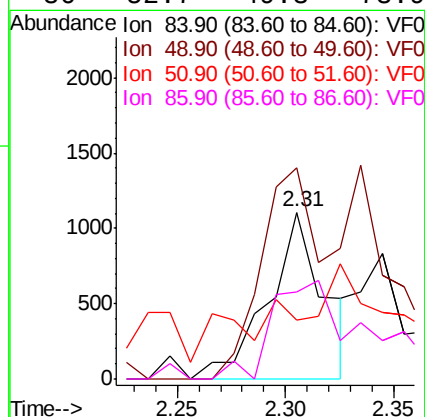
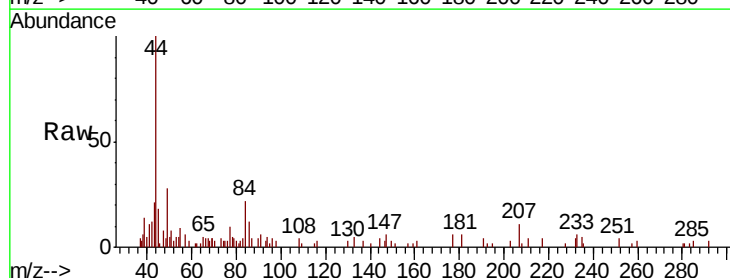
Ion Ratio Lower Upper

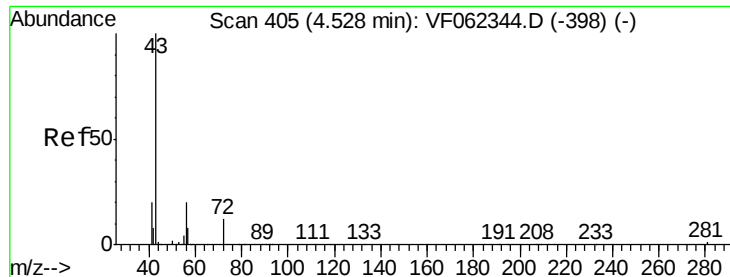
84 100

49 127.0 117.5 176.3

51 25.1 37.0 55.4#

86 52.7 49.3 73.9





#25

2-Butanone

Concen: 2.237 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

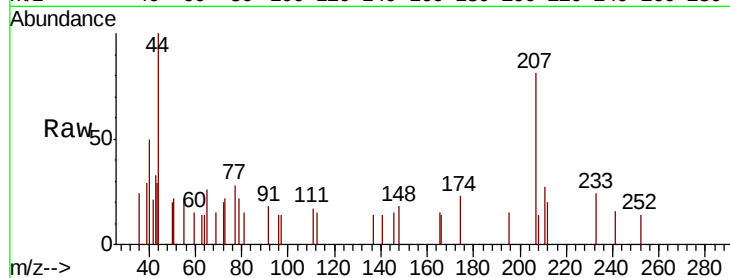
P026-SS010-1824-01RE

Tot Ion: 43 Resp: 994

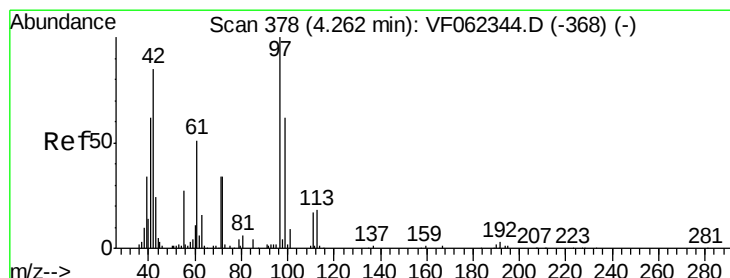
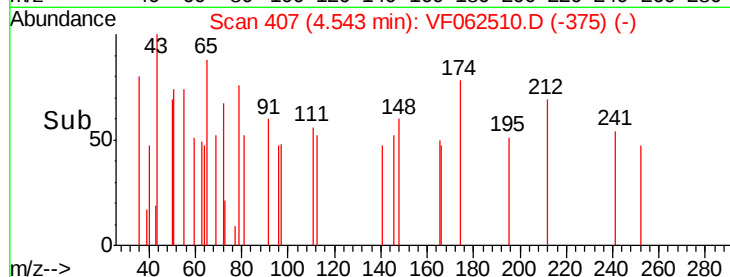
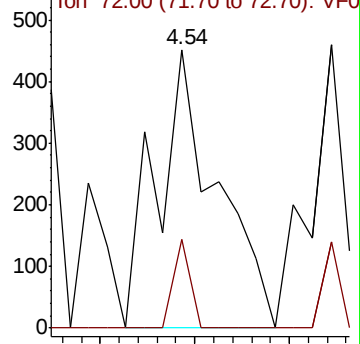
Ion Ratio Lower Upper

43 100

72 31.9 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: 6.034 ug/l

RT: 4.34 min Scan# 386

Delta R.T. 0.07 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

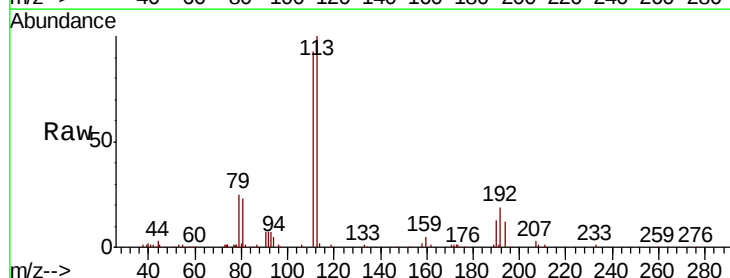
Tgt Ion: 42 Resp: 1232

Ion Ratio Lower Upper

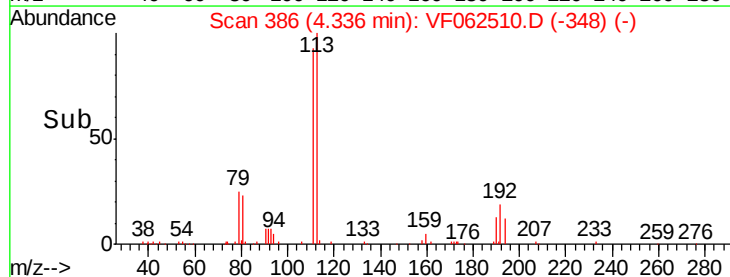
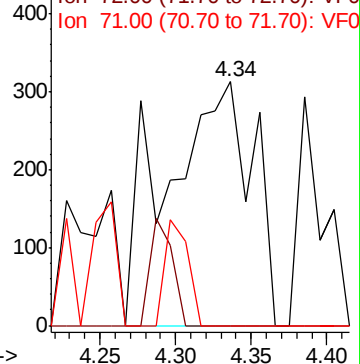
42 100

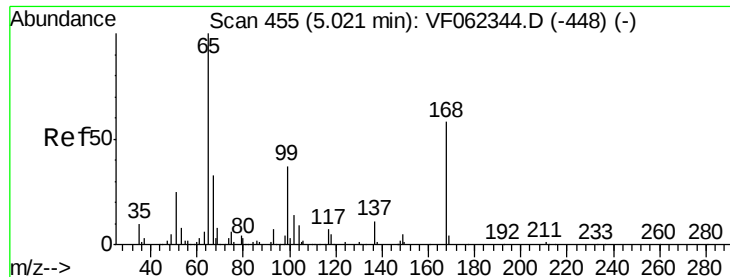
72 0.0 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 36.767 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

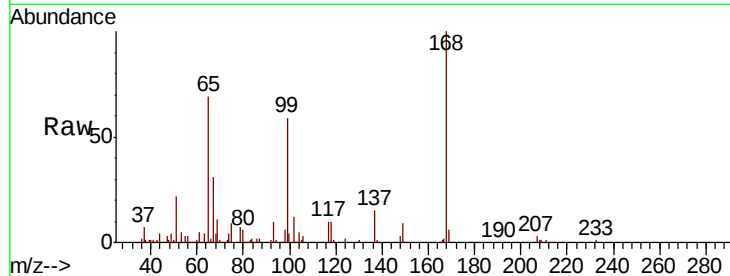
P026-SS010-1824-01RE

Tot Ion: 65 Resp: 64273

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

5.06

25000

20000

15000

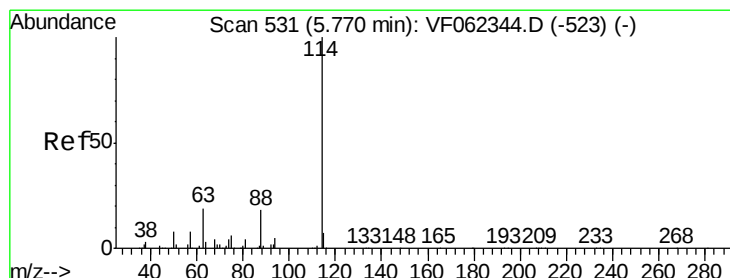
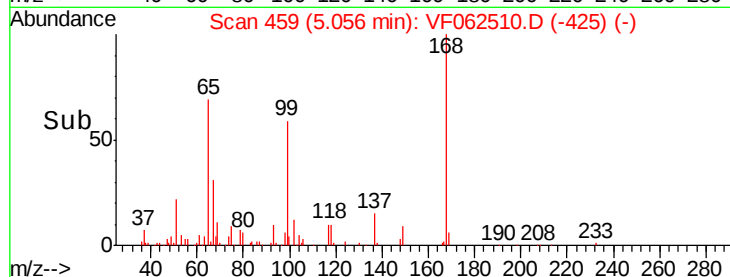
10000

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: VF062510.D

Acq: 12 May 2019 18:33

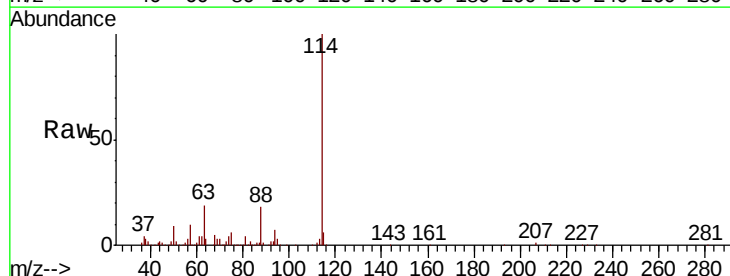
Tgt Ion: 114 Resp: 233058

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.4

88 18.0 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

120000

100000

80000

60000

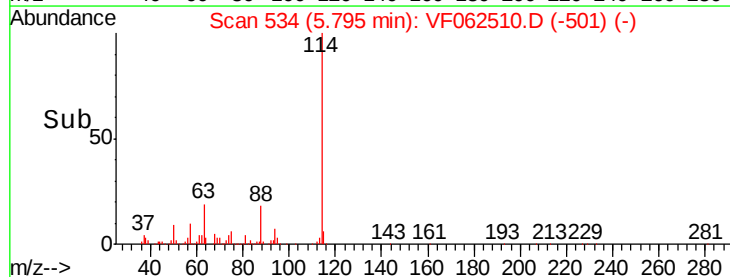
40000

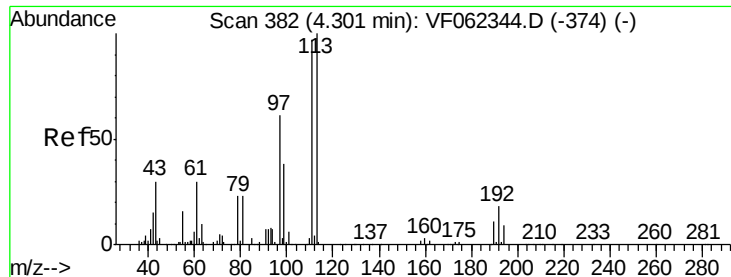
20000

0

Time-->

5.70 5.80 5.90 6.00

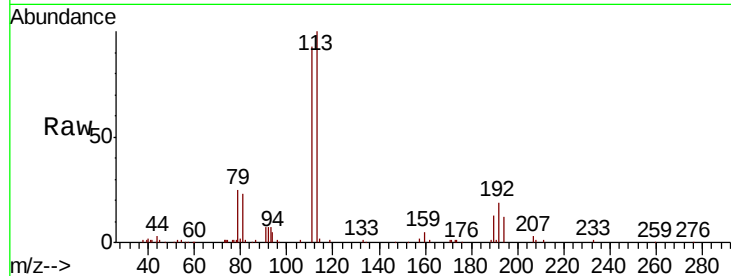




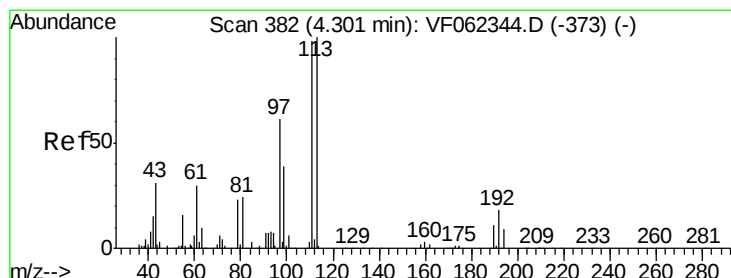
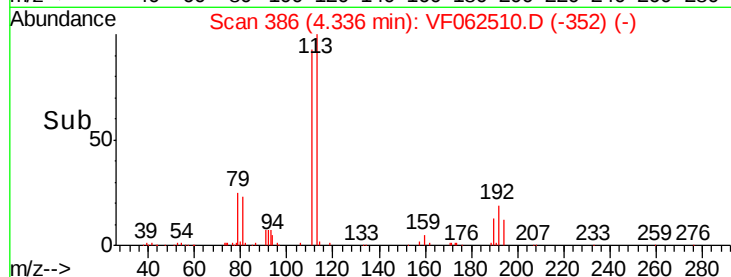
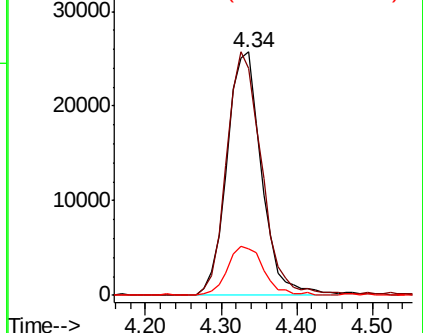
#35
 Dibromofluoromethane
 Concen: 43.756 ug/l
 RT: 4.34 min Scan# 386
 Delta R.T. 0.03 min
 Lab File: VF062510.D
 Acq: 12 May 2019 18:33

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS010-1824-01RE

Tot Ion:113 Resp: 81244
 Ion Ratio Lower Upper
 113 100
 111 101.4 79.4 119.0
 192 21.3 16.0 24.0

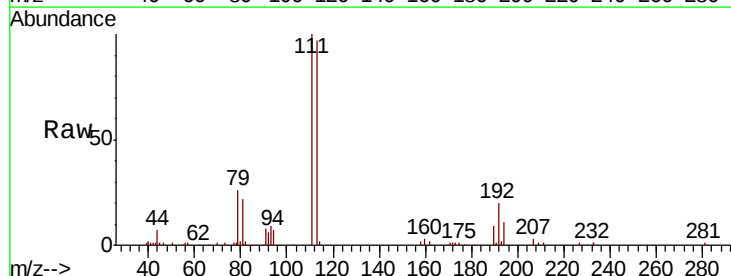


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

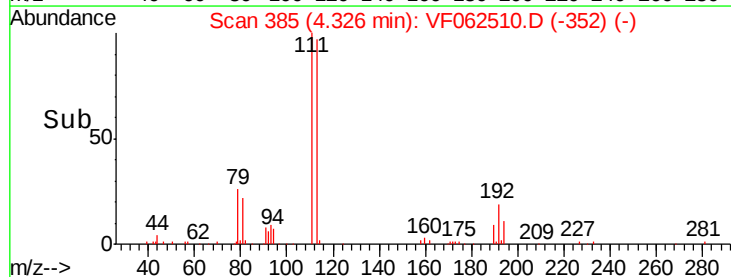
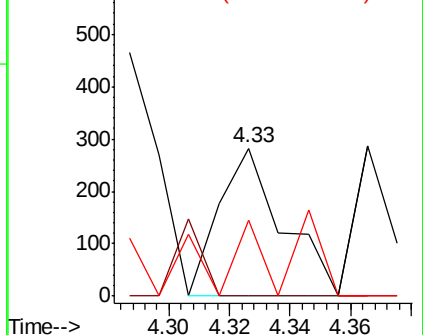


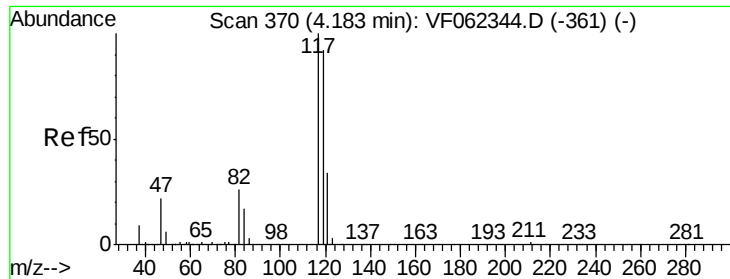
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062510.D
 Acq: 12 May 2019 18:33

Tgt Ion: 43 Resp: 412
 Ion Ratio Lower Upper
 43 100
 61 0.0 0.0 0.0
 70 20.9 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. 0.02 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

P026-SS010-1824-01RE

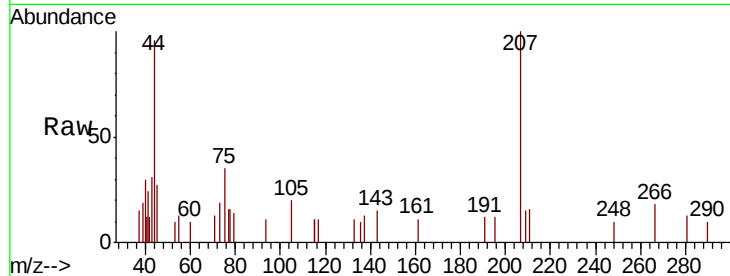
Tot Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

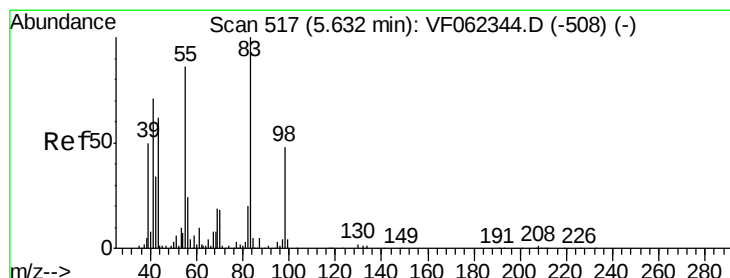
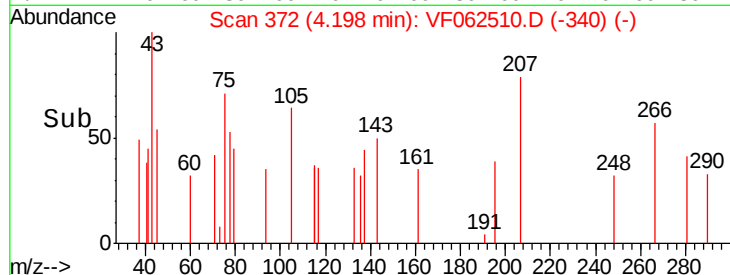
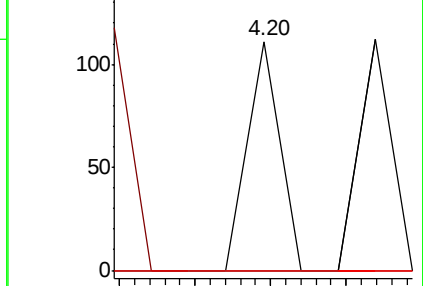
121 0.0 27.4 41.0#



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: 2.203 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

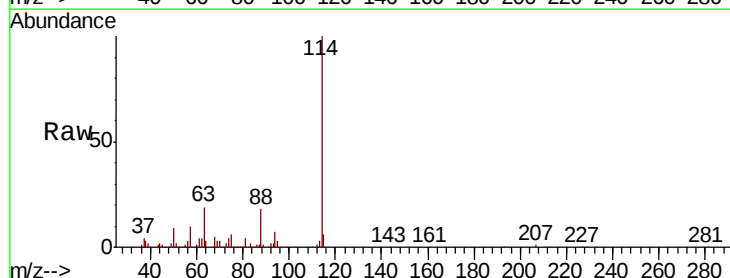
Tgt Ion: 83 Resp: 4423

Ion Ratio Lower Upper

83 100

55 42.7 69.0 103.6#

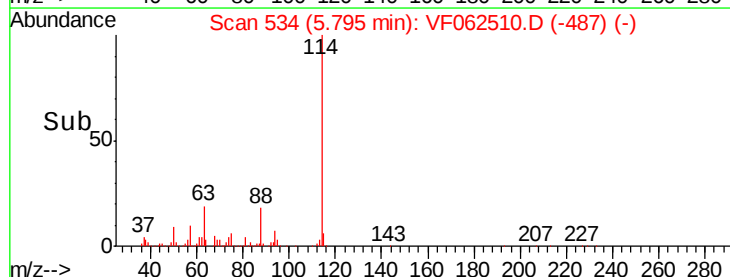
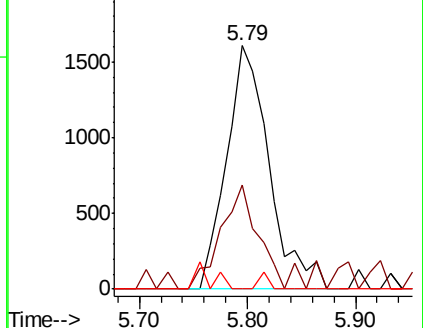
98 0.0 38.6 58.0#

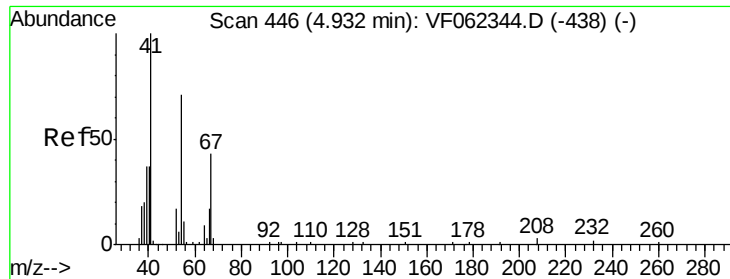


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 1.096 ug/l

RT: 4.96 min Scan# 449

Delta R.T. 0.02 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

P026-SS010-1824-01RE

Tot Ion: 41 Resp: 526

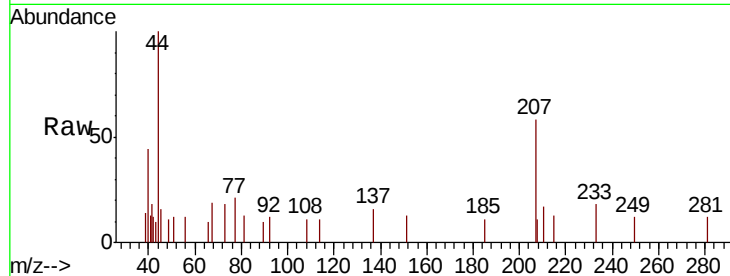
Ion Ratio Lower Upper

41 100

39 0.0 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

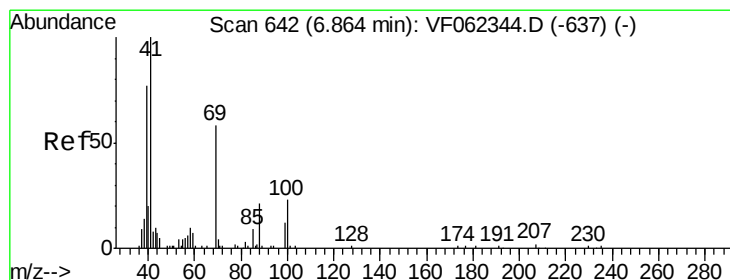
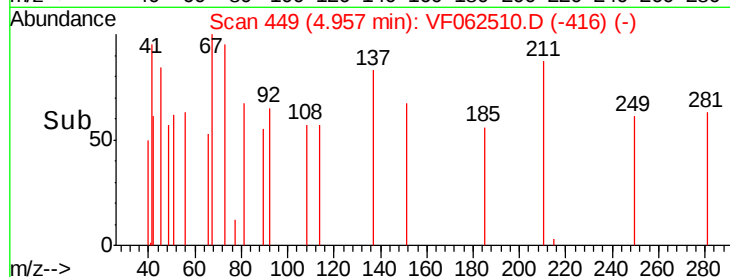
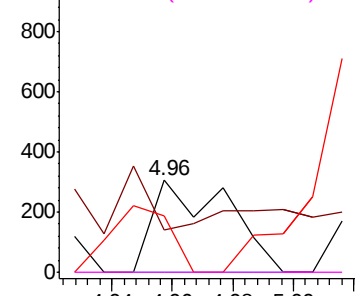


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.75 min Scan# 631

Delta R.T. -0.11 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

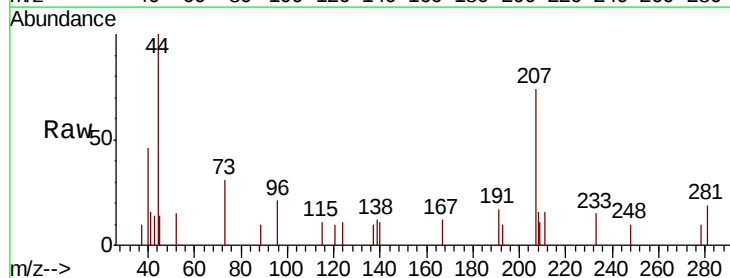
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

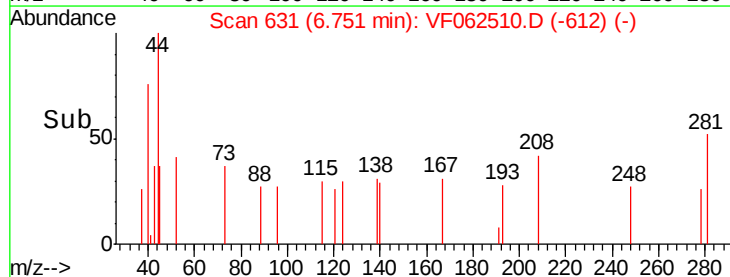
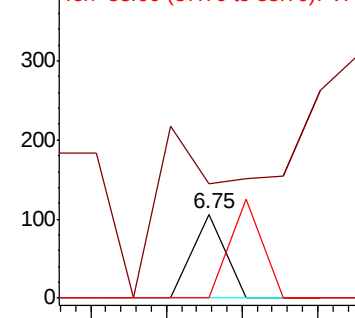
58 119.0 52.8 79.2#

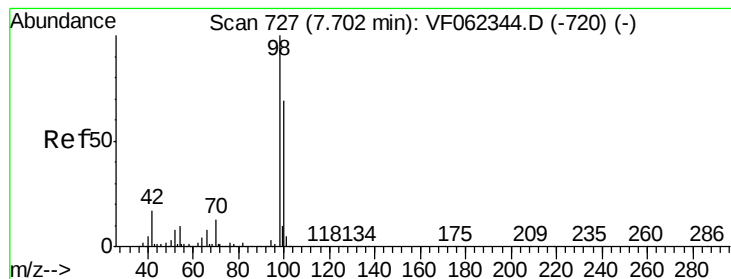


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 38.001 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

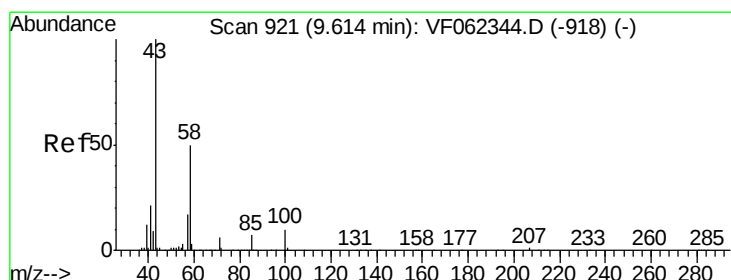
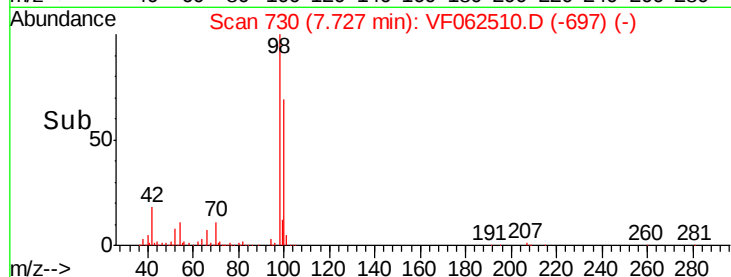
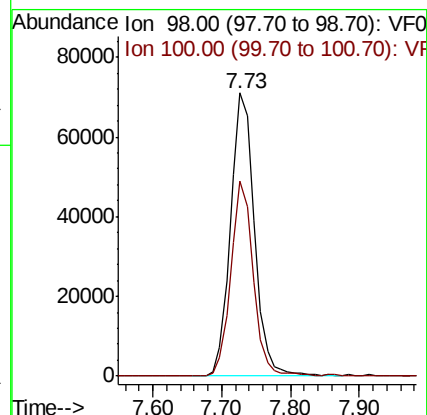
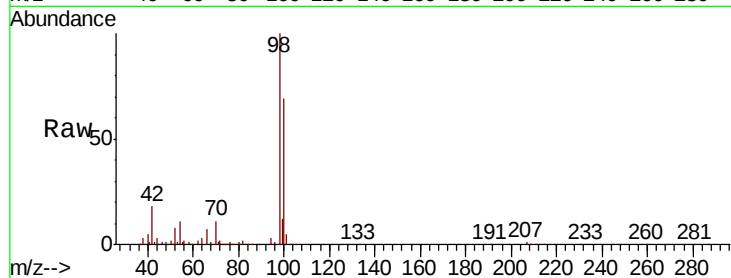
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Tot Ion: 98 Resp: 170794

Ion Ratio Lower Upper

98 100

100 64.5 53.3 79.9



#59

2-Hexanone

Concen: 1.108 ug/l

RT: 9.66 min Scan# 926

Delta R.T. 0.04 min

Lab File: VF062510.D

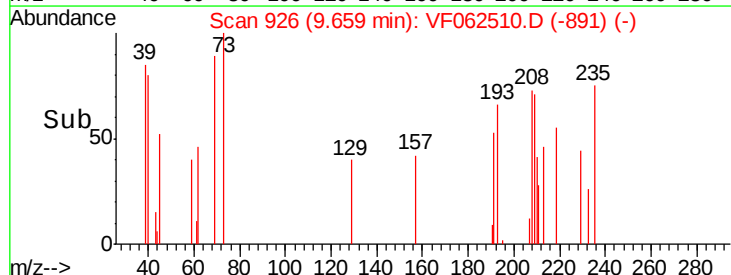
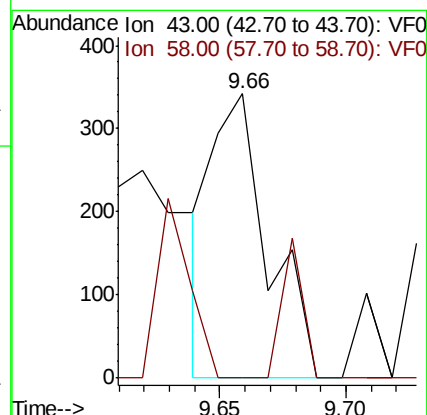
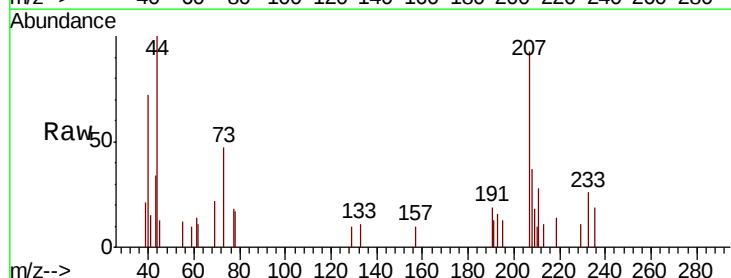
Acq: 12 May 2019 18:33

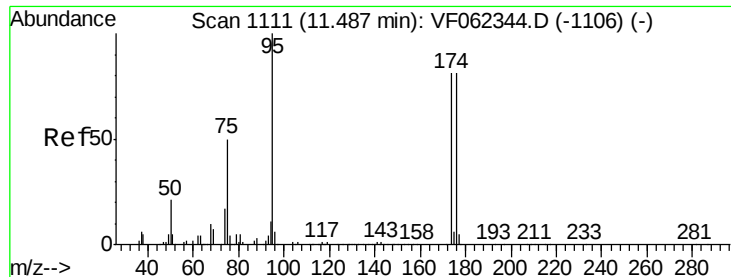
Tgt Ion: 43 Resp: 529

Ion Ratio Lower Upper

43 100

58 18.7 24.3 73.0#





#62

4-Bromofluorobenzene

Concen: 30.961 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

P026-SS010-1824-01RE

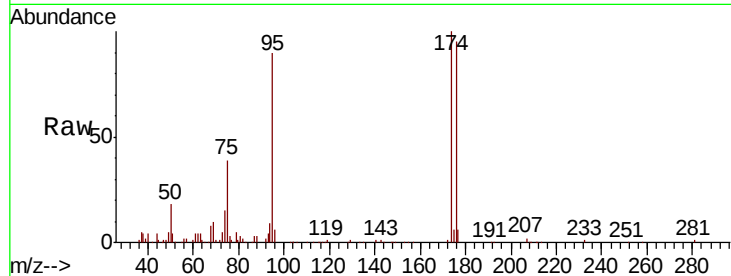
Tot Ion: 95 Resp: 62782

Ion Ratio Lower Upper

95 100

174 103.8 0.0 191.8

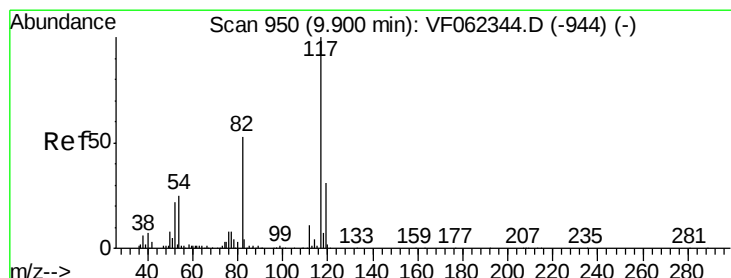
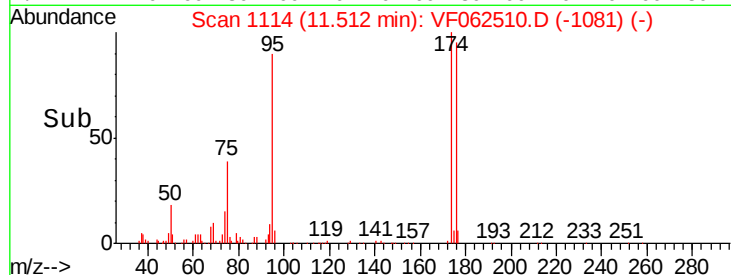
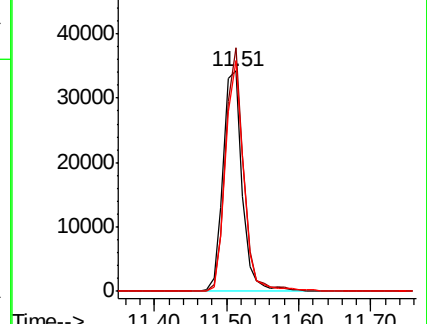
176 99.3 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062510.D

Acq: 12 May 2019 18:33

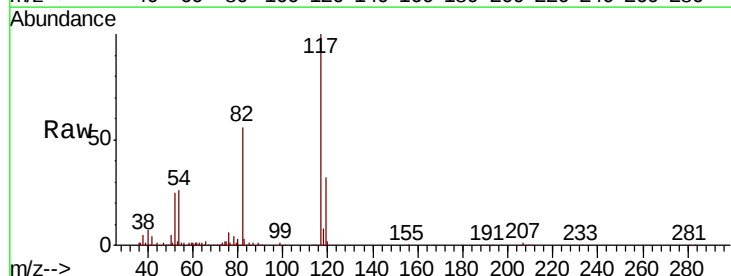
Tgt Ion: 117 Resp: 184896

Ion Ratio Lower Upper

117 100

82 56.0 42.2 63.2

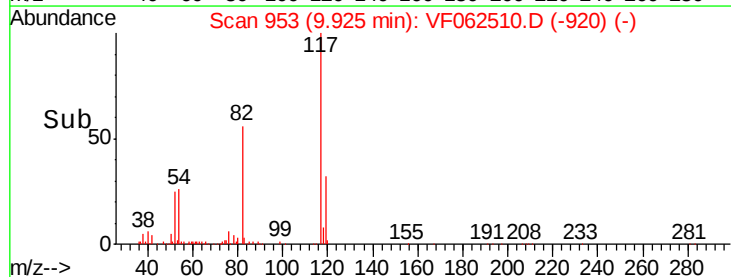
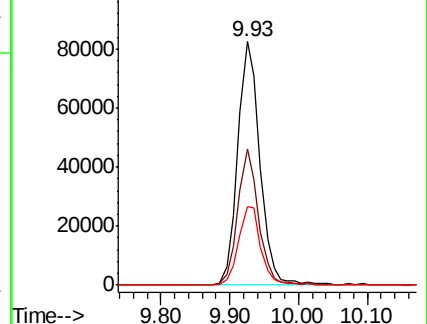
119 32.3 25.0 37.4

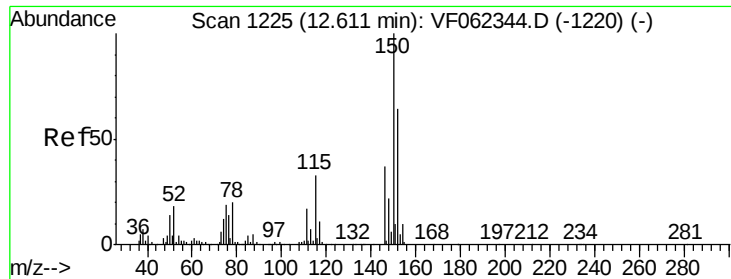


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.63 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VF062510.D

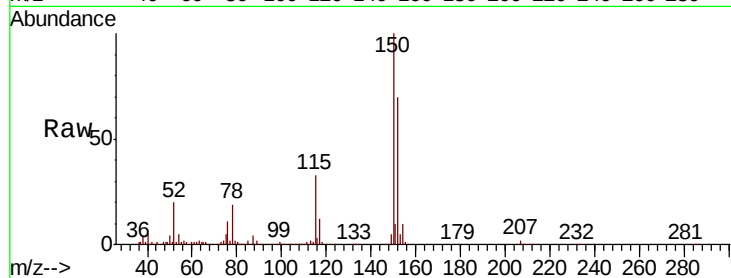
Acq: 12 May 2019 18:33

Instrument :

MSVOA_F

ClientSampleId :

P026-SS010-1824-01RE



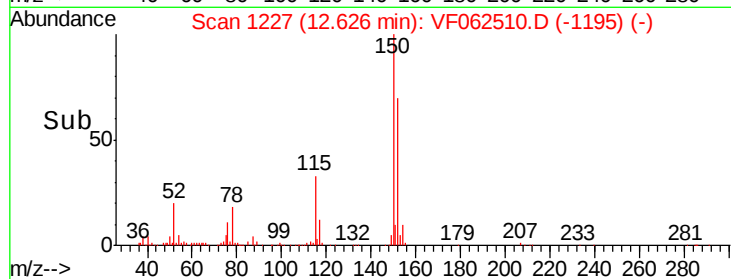
Tot Ion:152 Resp: 96074

Ion Ratio Lower Upper

152 100

115 50.8 26.4 79.2

150 149.3 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

