

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062465.D
 Acq On : 11 May 2019 17:36
 Operator : FY/SY
 Sample : K2717-21RE
 Misc : 5.01g/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:48:01 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	213929	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	270716	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	232020	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	138650	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	108368	53.60	ug/l	0.01
Spiked Amount 50.000			Recovery	=	107.20%	
35) Dibromofluoromethane	4.31	113	118822	55.09	ug/l	0.01
Spiked Amount 50.000			Recovery	=	110.18%	
50) Toluene-d8	7.72	98	225245	43.14	ug/l	0.01
Spiked Amount 50.000			Recovery	=	86.28%	
62) 4-Bromofluorobenzene	11.50	95	102221	43.40	ug/l	0.01
Spiked Amount 50.000			Recovery	=	86.80%	

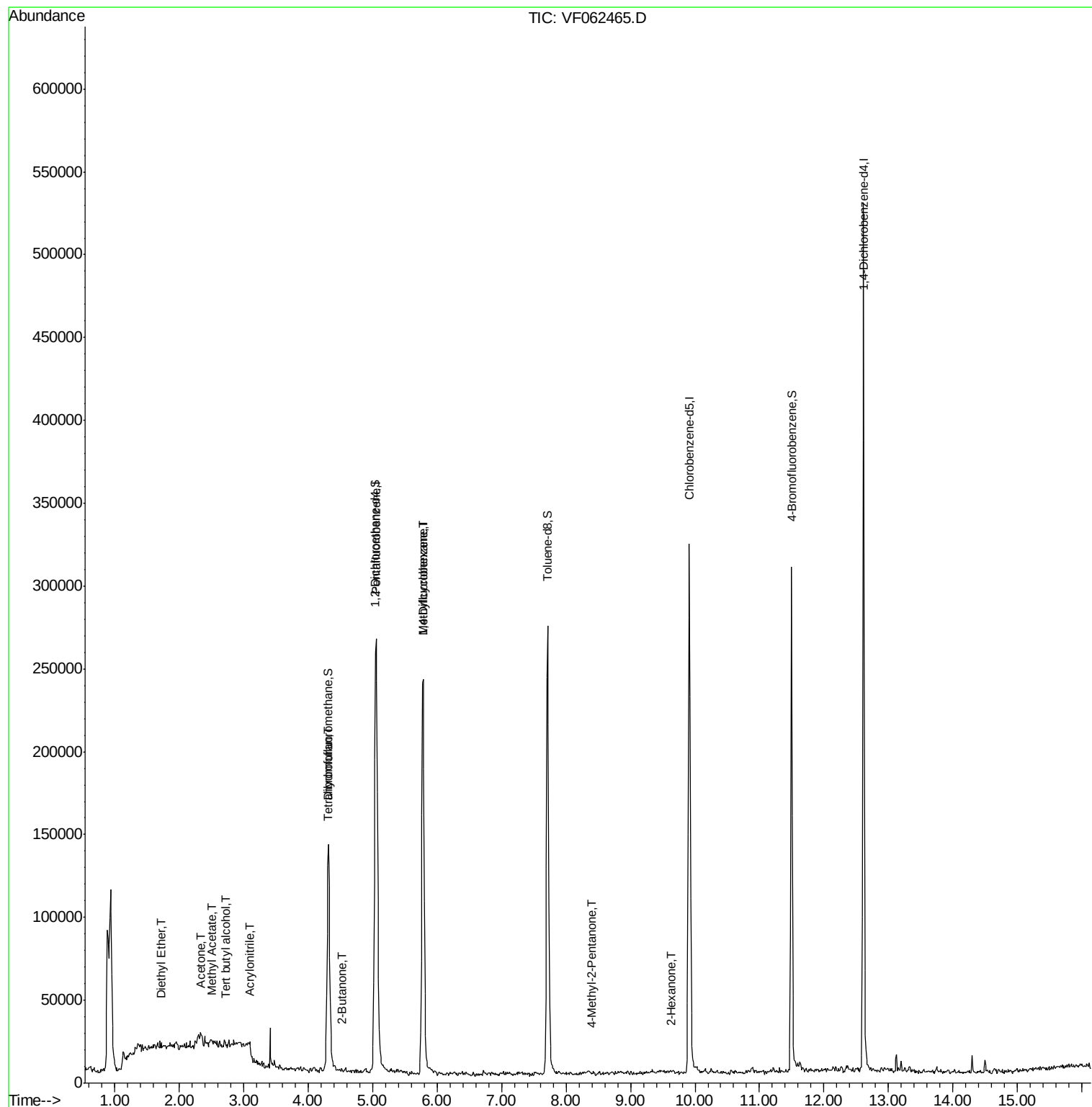
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.45	94	497	Below Cal	#	25
8) Diethyl Ether	1.72	74	1035	2.024	ug/l	59
11) Tert butyl alcohol	2.72	59	774	6.774	ug/l #	1
13) Acrolein	2.14	56	557	Below Cal	#	38
15) Acrylonitrile	3.09	53	606	2.800	ug/l #	19
16) Acetone	2.34	43	2097	5.127	ug/l #	3
18) Methyl Acetate	2.50	43	3116	1.116	ug/l #	78
25) 2-Butanone	4.51	43	1030	2.005	ug/l #	60
29) Tetrahydrofuran	4.29	42	1080	4.573	ug/l #	46
37) Ethyl Acetate	4.32	43	601	Below Cal	#	73
38) Carbon Tetrachloride	4.18	117	229	Below Cal	#	14
39) Methylcyclohexane	5.78	83	4152	1.780	ug/l #	42
49) 1,4-Dioxane	6.69	88	81	Below Cal	#	57
51) 4-Methyl-2-Pentanone	8.40	43	1244	1.552	ug/l #	49
59) 2-Hexanone	9.63	43	1195	2.156	ug/l #	46

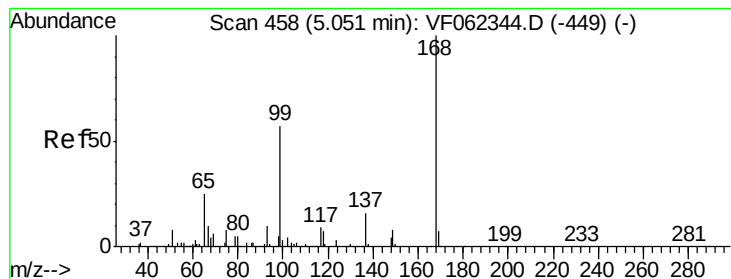
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051119\
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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: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

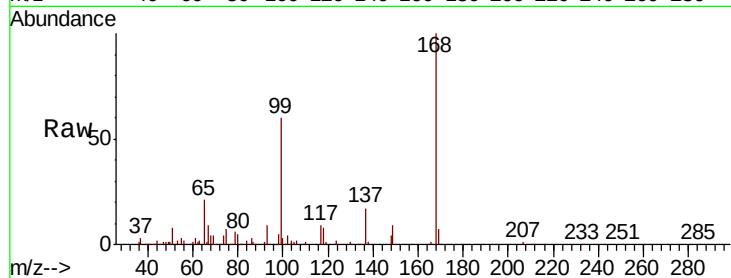
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 213929

Ion Ratio Lower Upper

168 100

99 59.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

80000

60000

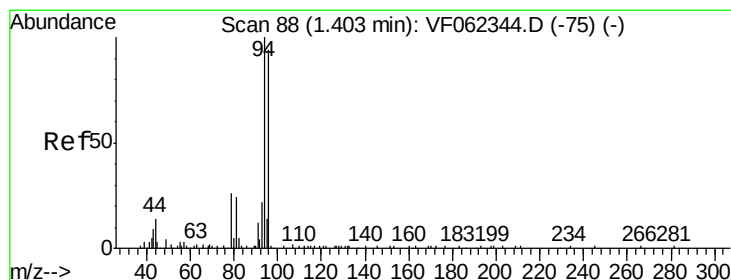
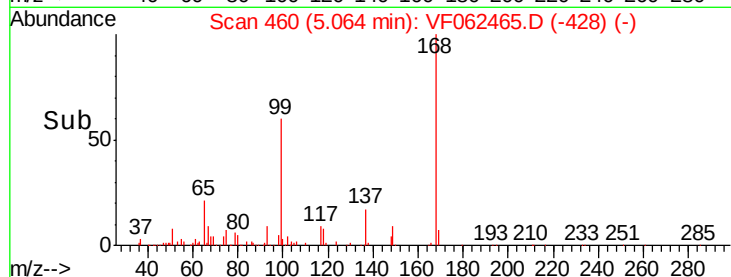
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.45 min Scan# 93

Delta R.T. 0.04 min

Lab File: VF062465.D

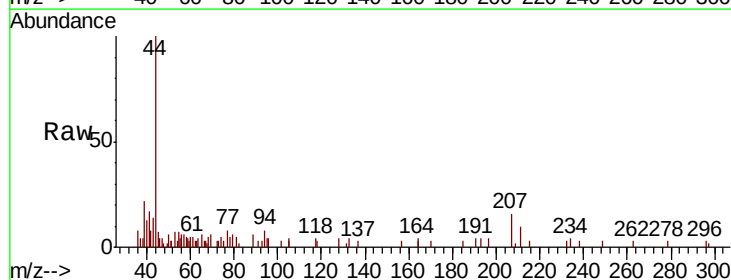
Acq: 11 May 2019 17:36

Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

94 100

96 22.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

400

300

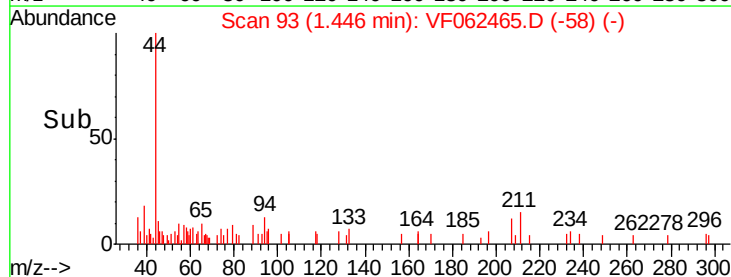
200

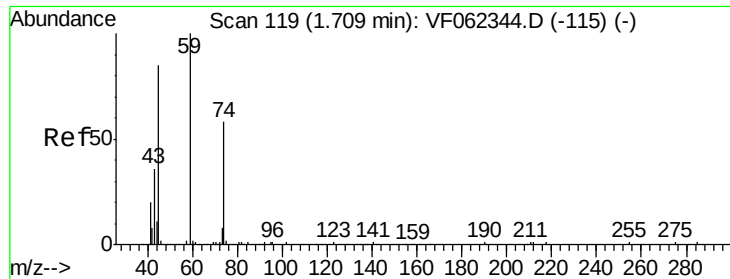
100

0

Time-->

1.42 1.44 1.46 1.48





#8

Diethyl Ether

Concen: 2.024 ug/l

RT: 1.72 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

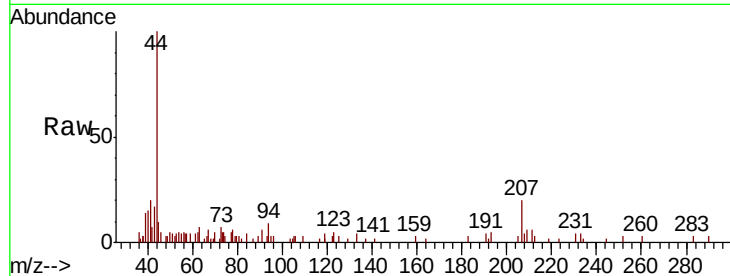
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 1035

Ion Ratio Lower Upper

74 100

45 95.8 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

600

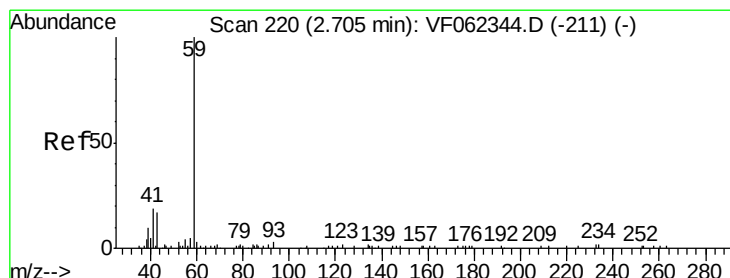
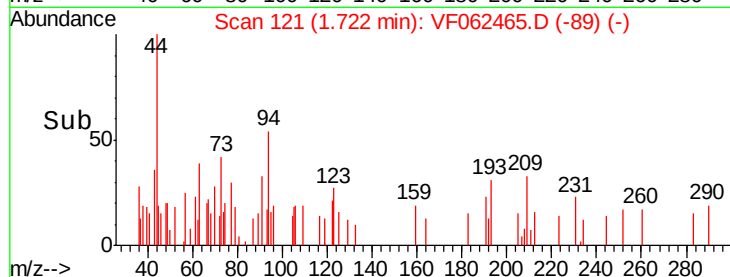
400

200

0

1.65 1.70 1.75 1.80

Time-->



#11

Tert butyl alcohol

Concen: 6.774 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF062465.D

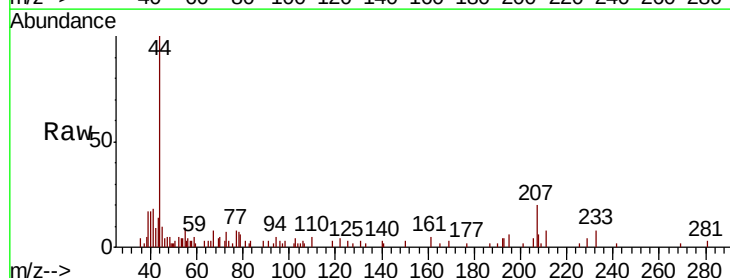
Acq: 11 May 2019 17:36

Tgt Ion: 59 Resp: 774

Ion Ratio Lower Upper

59 100

57 86.6 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

500

400

300

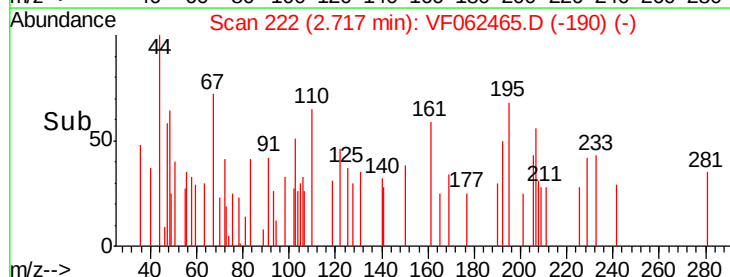
200

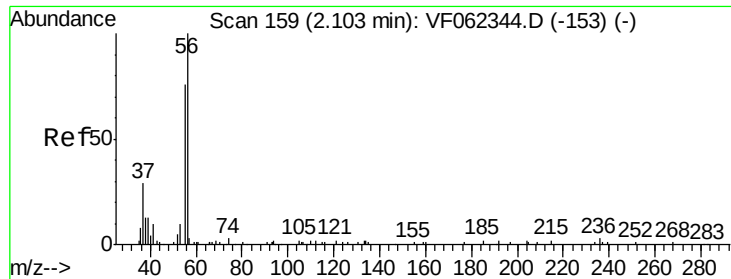
100

0

2.65 2.70 2.75

Time-->

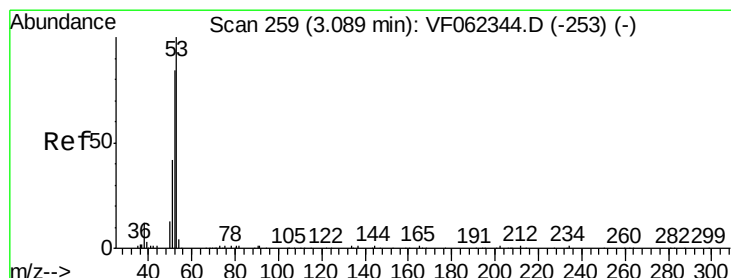
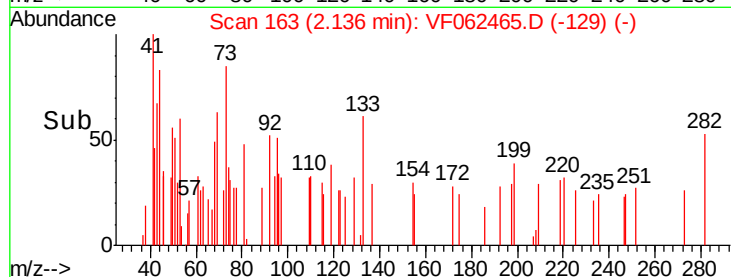
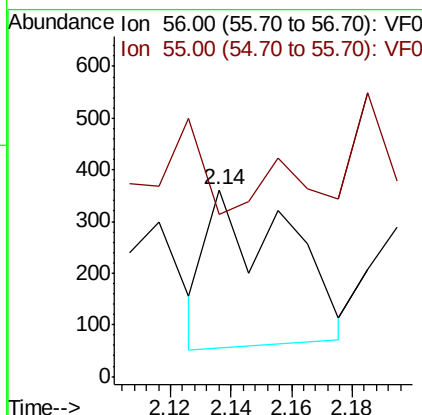
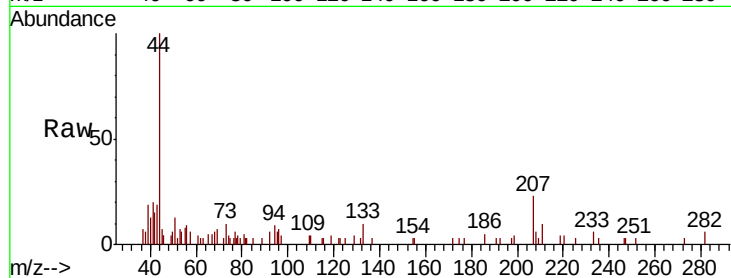




#13
Acrolein
Concen: Below Cal
RT: 2.14 min Scan# 163
Delta R.T. 0.03 min
Lab File: VF062465.D
Acq: 11 May 2019 17:36

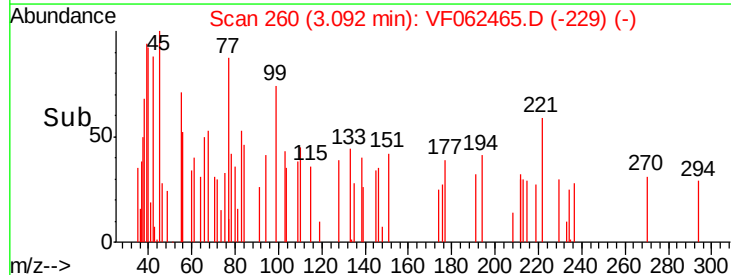
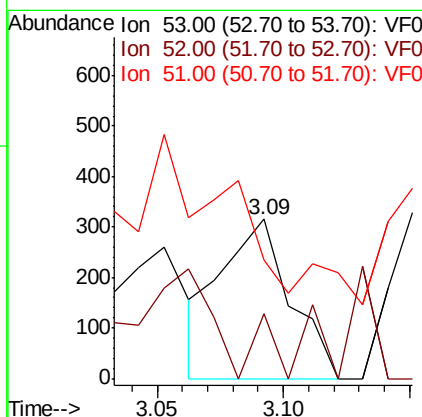
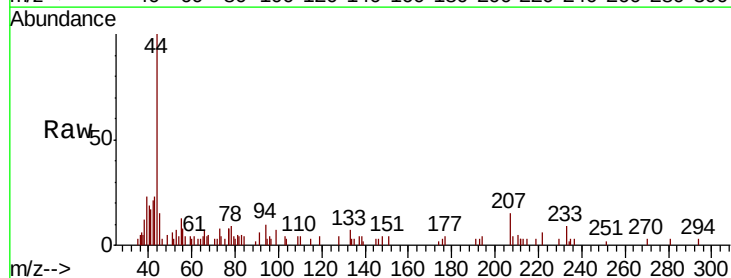
Instrument :
MSVOA_F
ClientSampled :

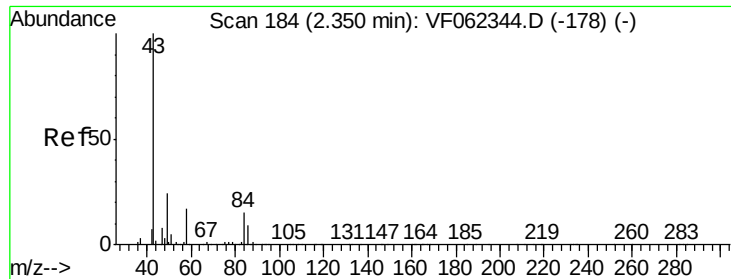
Tot Ion: 56 Resp: 557
Ion Ratio Lower Upper
56 100
55 21.2 58.4 87.6#



#15
Acrylonitrile
Concen: 2.800 ug/l
RT: 3.09 min Scan# 260
Delta R.T. 0.00 min
Lab File: VF062465.D
Acq: 11 May 2019 17:36

Tgt Ion: 53 Resp: 606
Ion Ratio Lower Upper
53 100
52 12.4 77.2 115.8#
51 0.0 40.6 61.0#

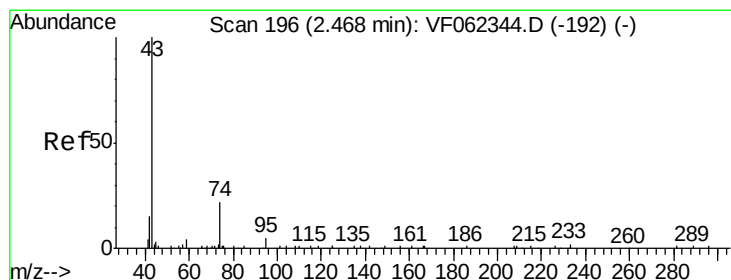
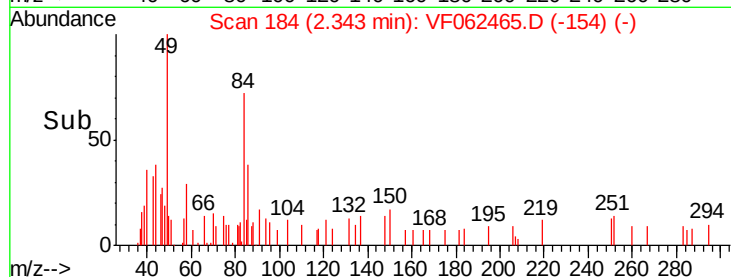
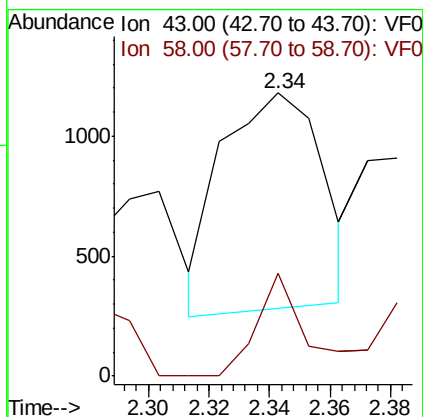
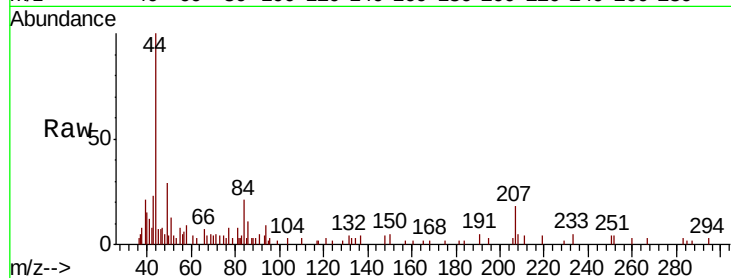




#16
Acetone
Concen: 5.127 ug/l
RT: 2.34 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062465.D
Acq: 11 May 2019 17:36

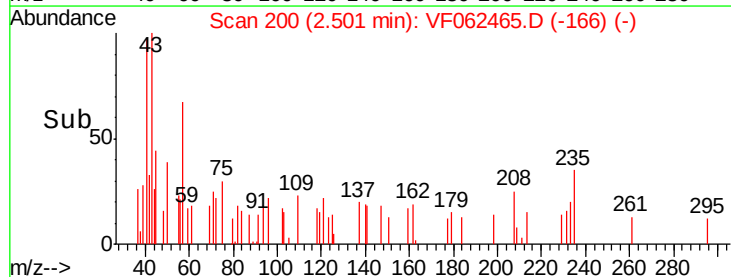
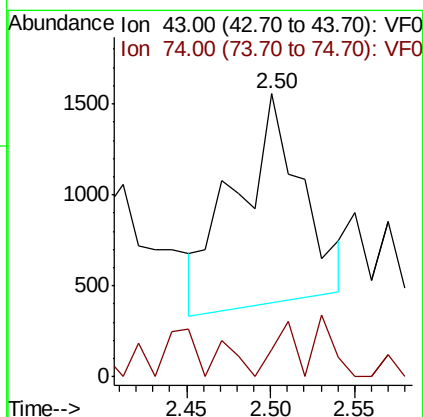
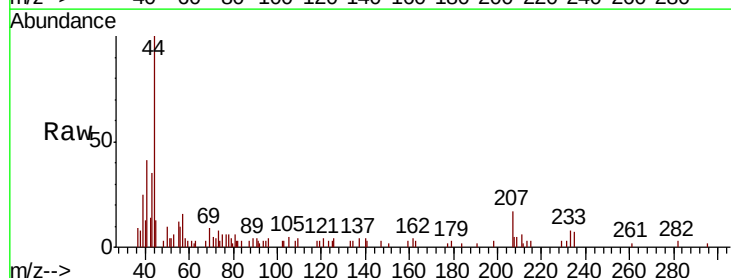
Instrument :
MSVOA_F
ClientSampled :

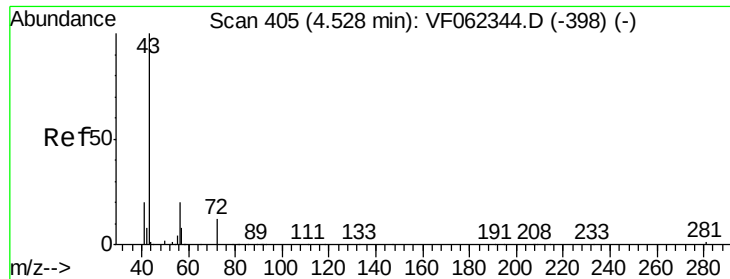
Tot Ion: 43 Resp: 2097
Ion Ratio Lower Upper
43 100
58 57.7 13.1 19.7#



#18
Methyl Acetate
Concen: 1.116 ug/l
RT: 2.50 min Scan# 200
Delta R.T. 0.03 min
Lab File: VF062465.D
Acq: 11 May 2019 17:36

Tgt Ion: 43 Resp: 3116
Ion Ratio Lower Upper
43 100
74 8.7 15.0 22.4#





#25

2-Butanone

Concen: 2.005 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.02 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

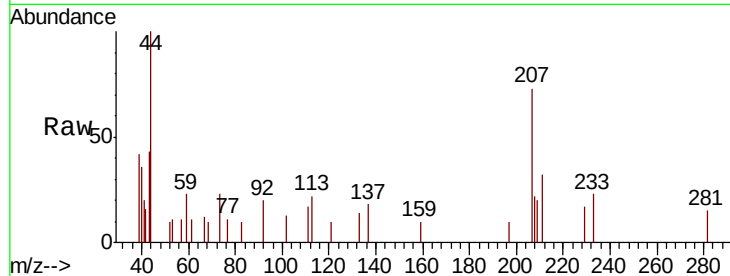
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1030

Ion Ratio Lower Upper

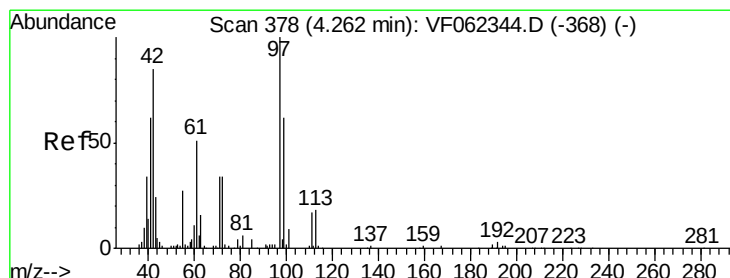
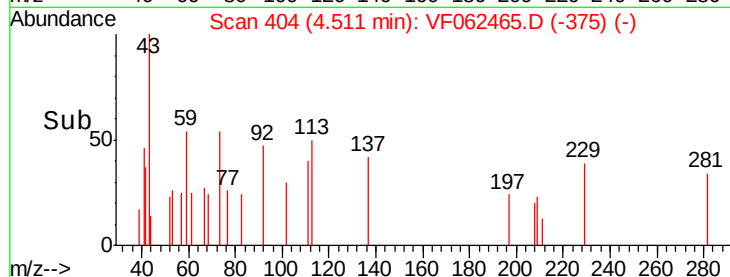
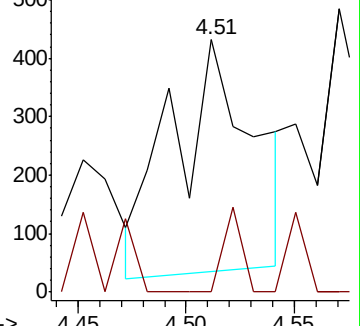
43 100

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: 4.573 ug/l

RT: 4.29 min Scan# 382

Delta R.T. 0.03 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

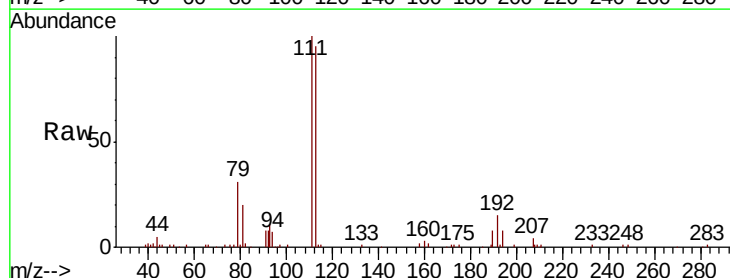
Tgt Ion: 42 Resp: 1080

Ion Ratio Lower Upper

42 100

72 5.6 31.4 47.0#

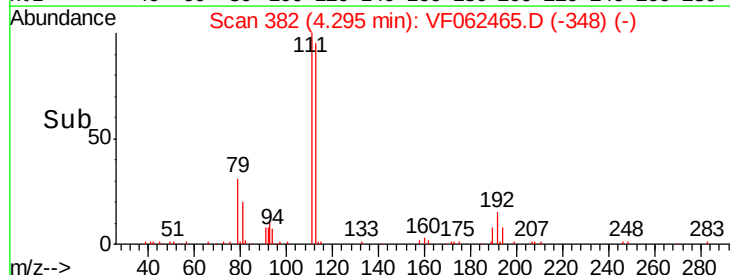
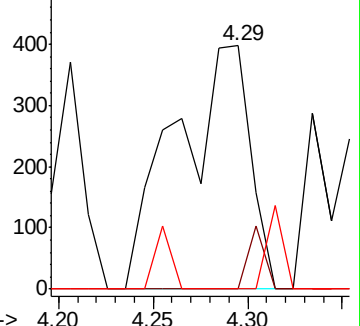
71 7.4 31.7 47.5#

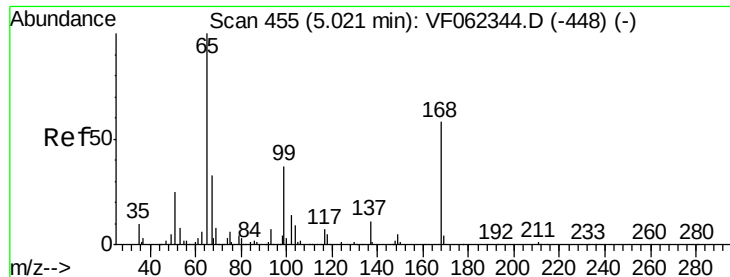


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

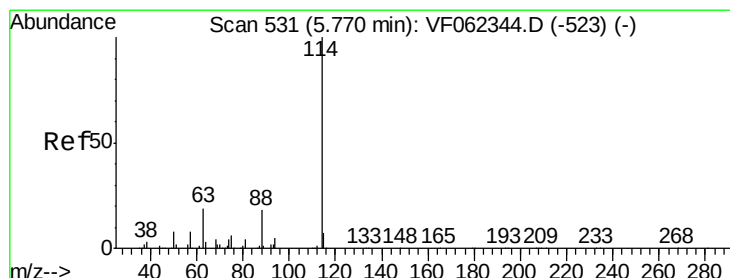
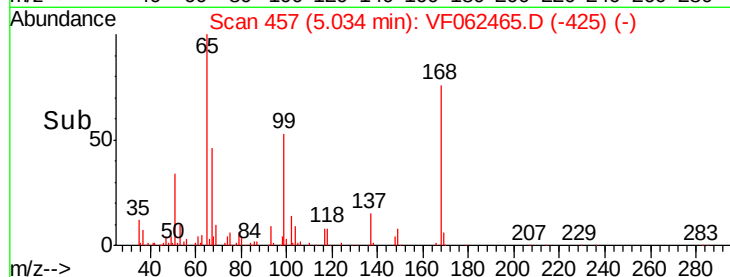
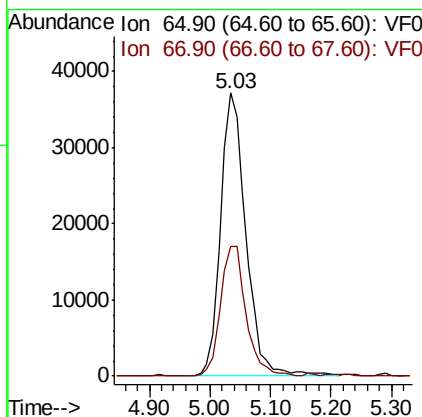
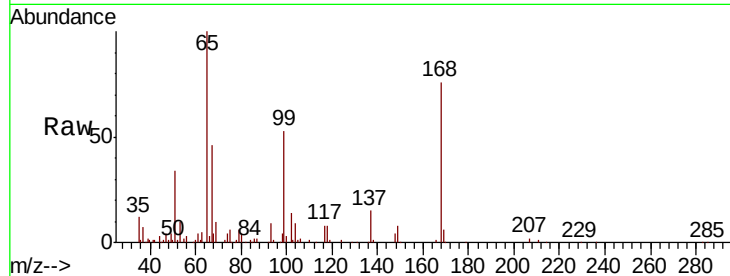




#33
 1,2-Dichloroethane-d4
 Concen: 53.602 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062465.D
 Acq: 11 May 2019 17:36

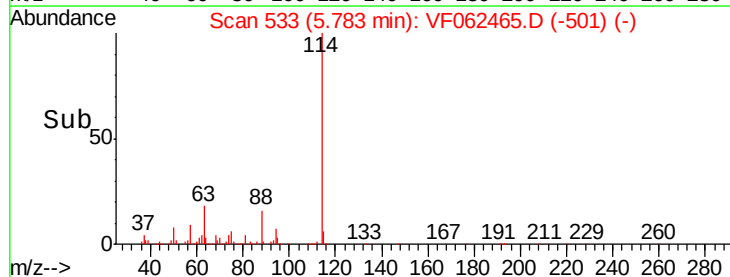
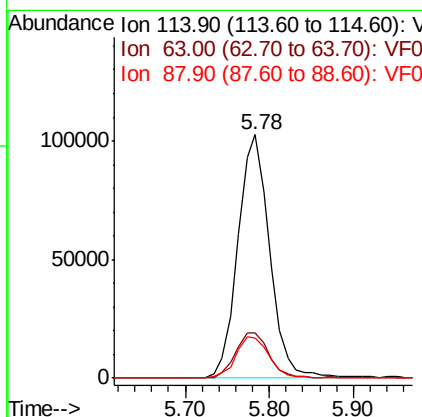
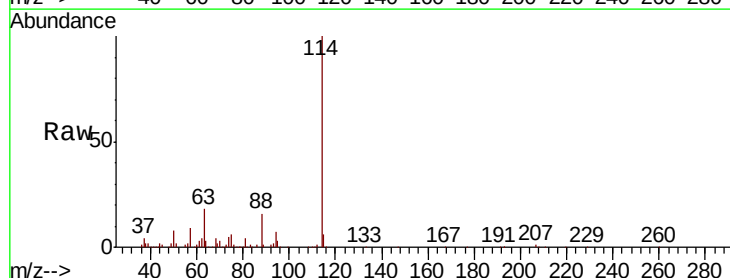
Instrument :
 MSVOA_F
 ClientSampleId :

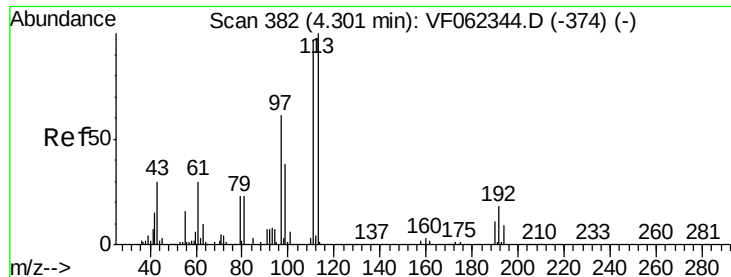
Tot Ion: 65 Resp: 108368
 Ion Ratio Lower Upper
 65 100
 67 46.4 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062465.D
 Acq: 11 May 2019 17:36

Tgt Ion: 114 Resp: 270716
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 37.4
 88 16.5 0.0 36.4

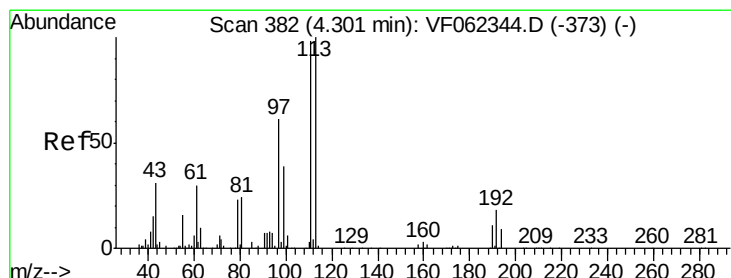
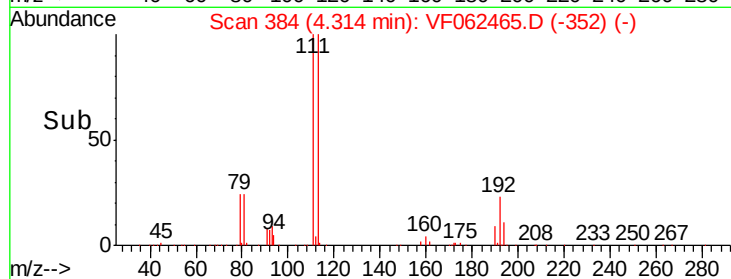
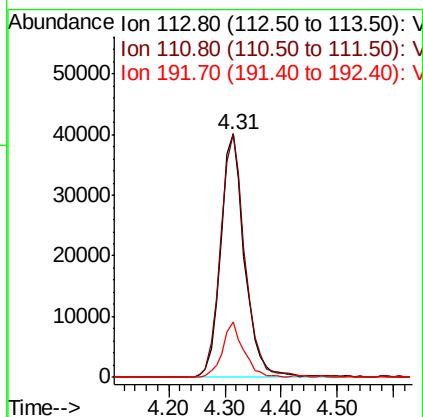
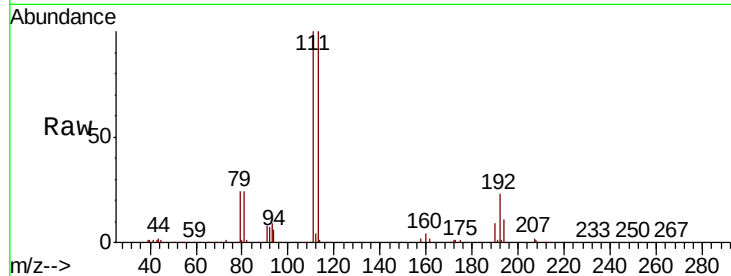




#35
 Dibromofluoromethane
 Concen: 55.093 ug/l
 RT: 4.31 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VF062465.D
 Acq: 11 May 2019 17:36

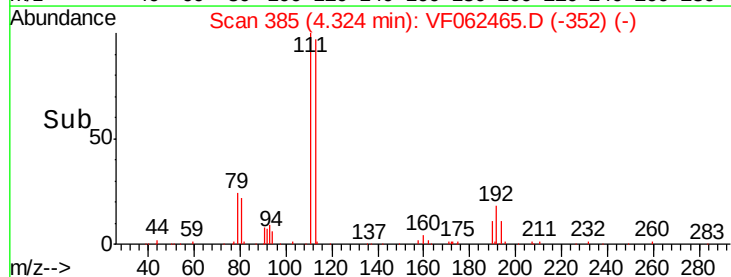
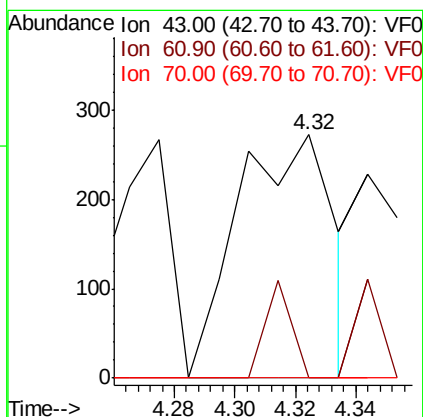
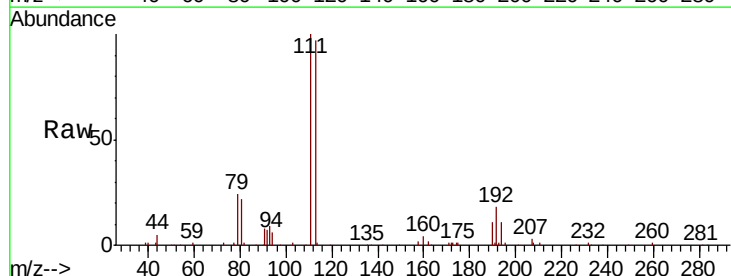
Instrument :
 MSVOA_F
 ClientSampled :

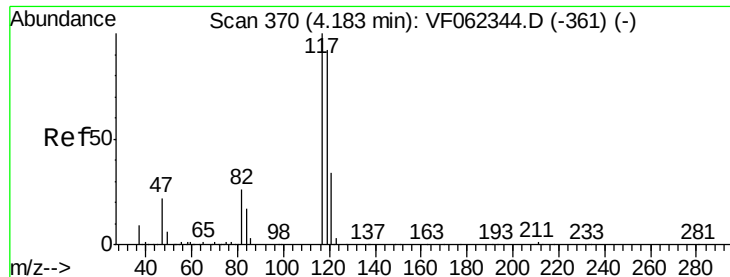
Tot Ion:113 Resp: 118822
 Ion Ratio Lower Upper
 113 100
 111 102.2 79.4 119.0
 192 20.3 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.32 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062465.D
 Acq: 11 May 2019 17:36

Tgt Ion: 43 Resp: 601
 Ion Ratio Lower Upper
 43 100
 61 10.8 0.0 0.0#
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.18 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

Instrument :

MSVOA_F

ClientSampleId :

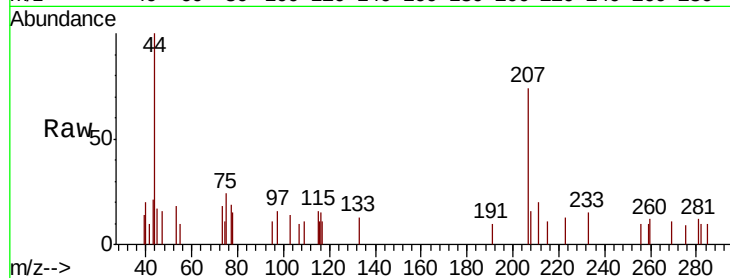
Tot Ion:117 Resp: 229

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

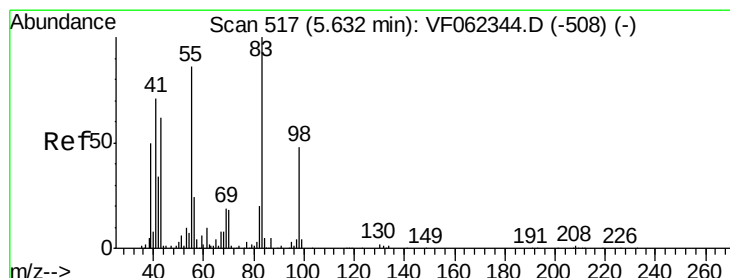
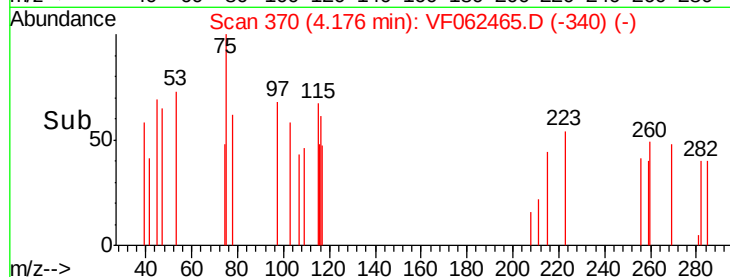
Ion 120.80 (120.50 to 121.50): V

4.18

4.15

4.20

Time-->



#39

Methylcyclohexane

Concen: 1.780 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

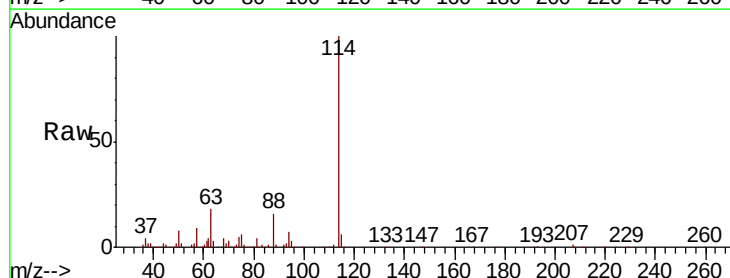
Tgt Ion: 83 Resp: 4152

Ion Ratio Lower Upper

83 100

55 40.2 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

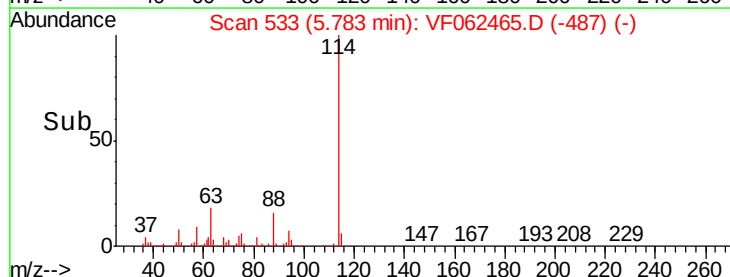
5.78

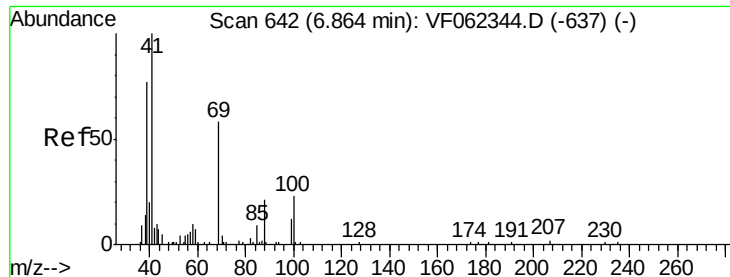
5.70

5.80

5.90

Time-->





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.69 min Scan# 625

Delta R.T. -0.17 min

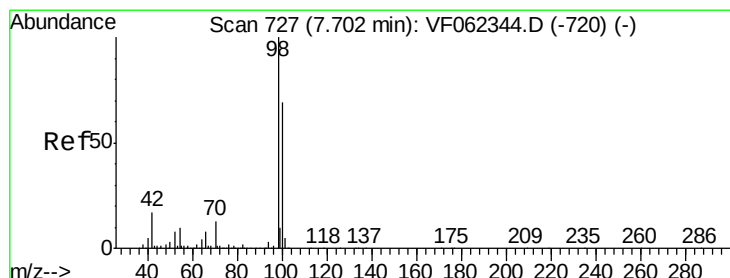
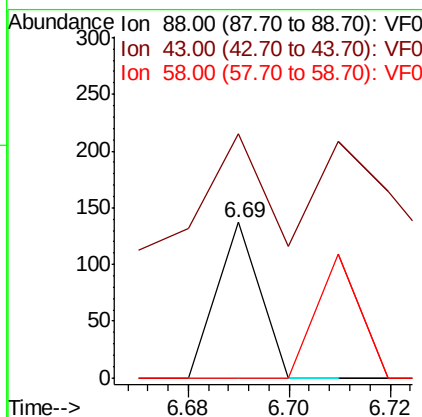
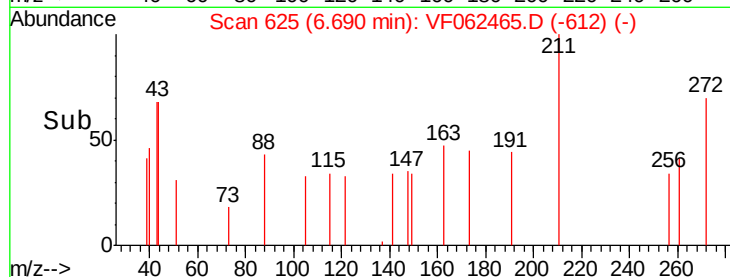
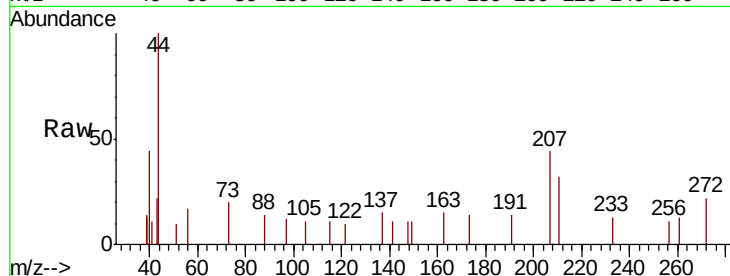
Lab File: VF062465.D

Acq: 11 May 2019 17:36

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 81

Ion	Ratio	Lower	Upper
88	100		
43	125.9	55.6	83.4#
58	79.0	52.8	79.2



#50

Toluene-d8

Concen: 43.144 ug/l

RT: 7.72 min Scan# 729

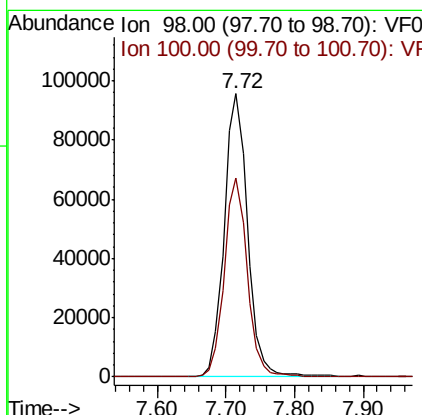
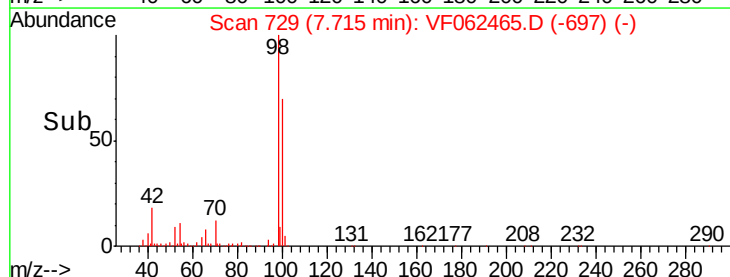
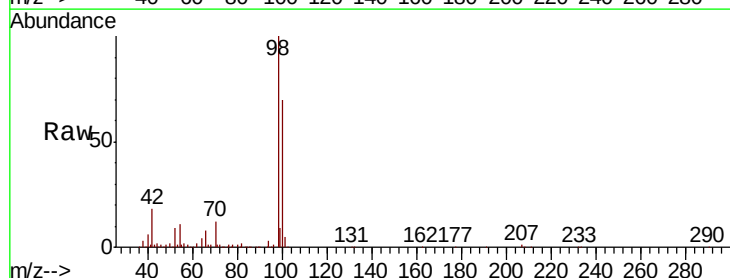
Delta R.T. 0.01 min

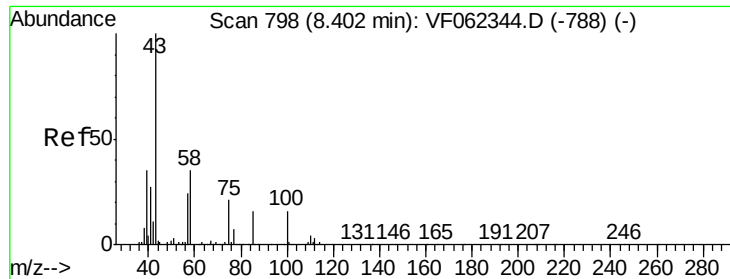
Lab File: VF062465.D

Acq: 11 May 2019 17:36

Tgt Ion: 98 Resp: 225245

Ion	Ratio	Lower	Upper
98	100		
100	68.8	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 1.552 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.01 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

Instrument :

MSVOA_F

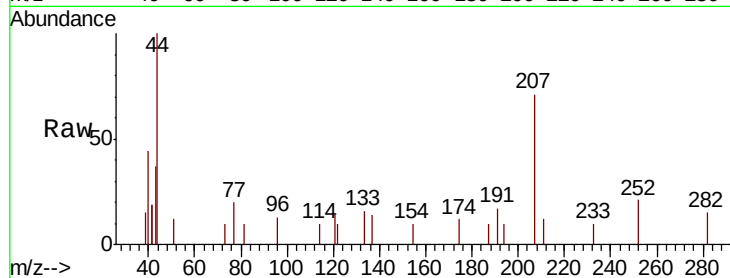
ClientSampleId :

Tot Ion: 43 Resp: 1244

Ion Ratio Lower Upper

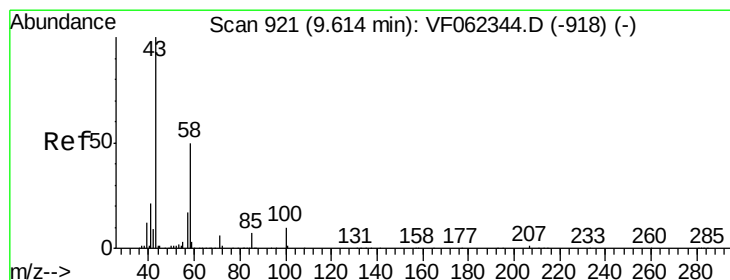
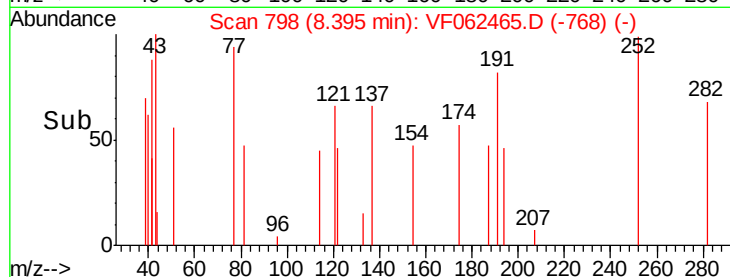
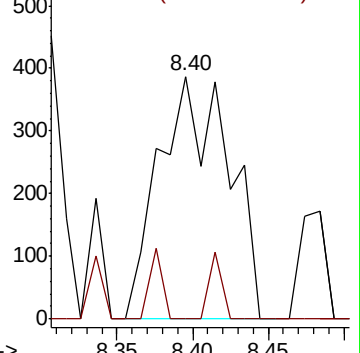
43 100

58 5.3 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 2.156 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF062465.D

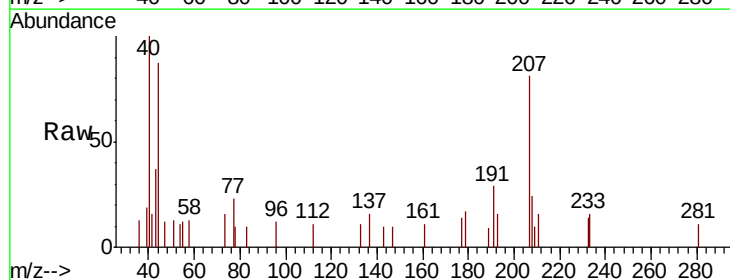
Acq: 11 May 2019 17:36

Tgt Ion: 43 Resp: 1195

Ion Ratio Lower Upper

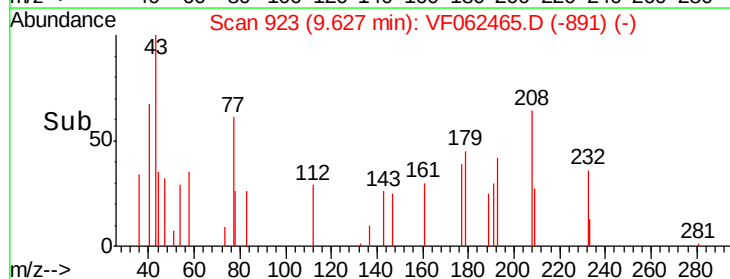
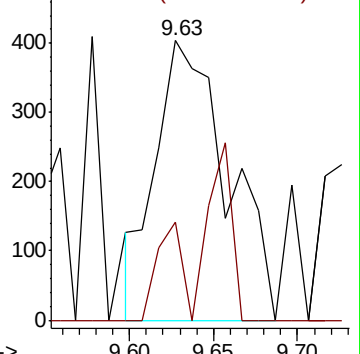
43 100

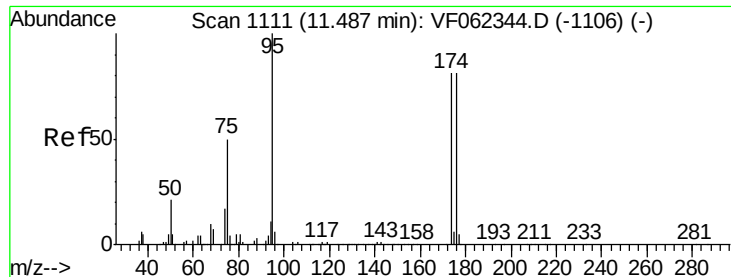
58 12.2 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 43.399 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

Instrument :

MSVOA_F

ClientSampleId :

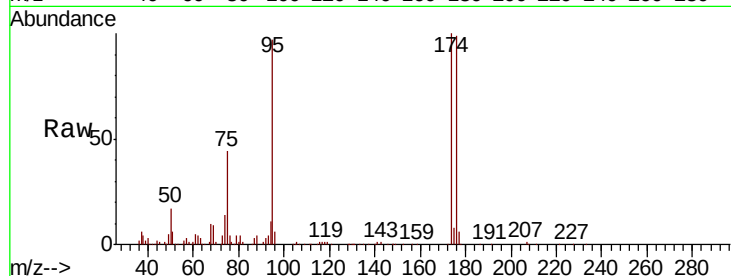
Tot Ion: 95 Resp: 102221

Ion Ratio Lower Upper

95 100

174 97.5 0.0 191.8

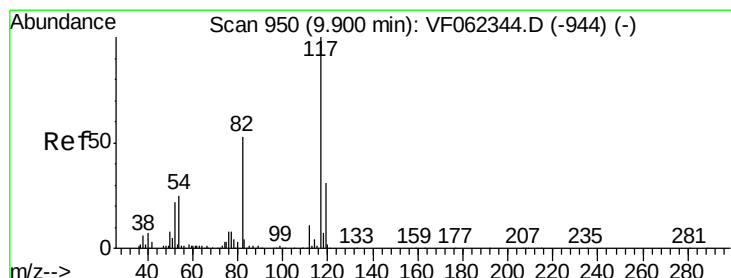
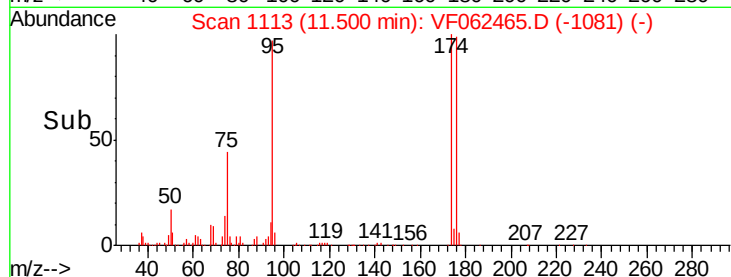
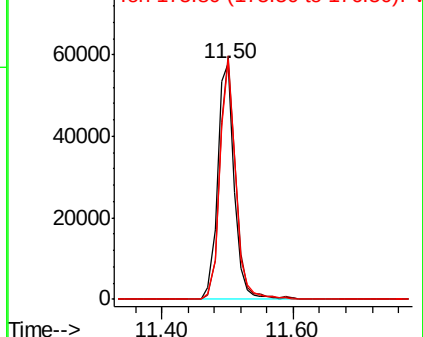
176 96.2 0.0 193.2



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: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062465.D

Acq: 11 May 2019 17:36

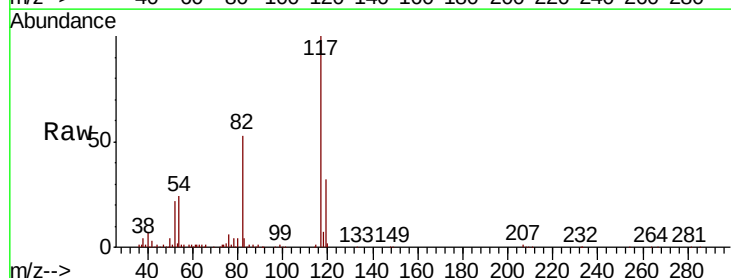
Tgt Ion: 117 Resp: 232020

Ion Ratio Lower Upper

117 100

82 52.6 42.2 63.2

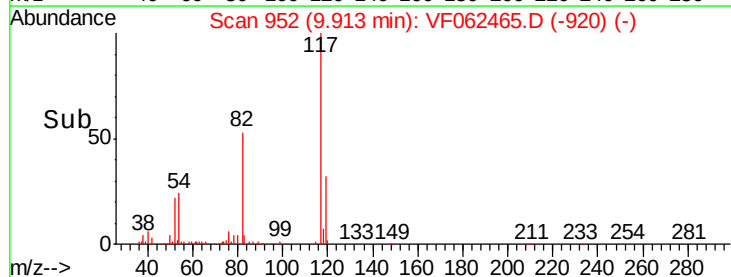
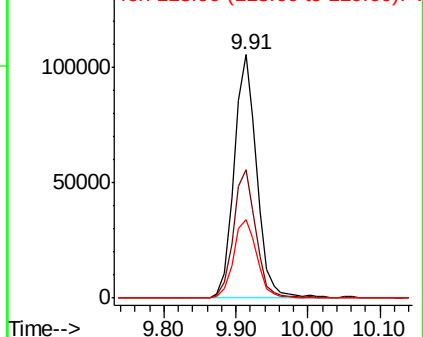
119 32.0 25.0 37.4

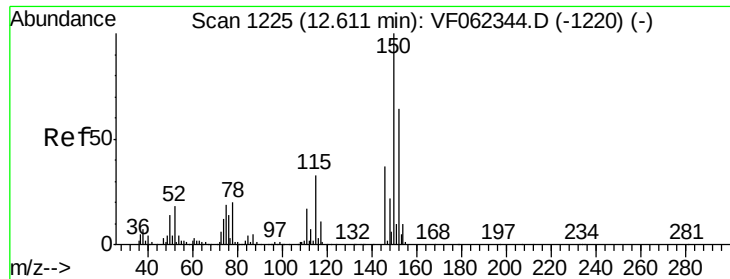


Abundance Ion 116.90 (116.60 to 117.60): V

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: VF062465.D

Acq: 11 May 2019 17:36

Instrument :

MSVOA_F

ClientSampleId :

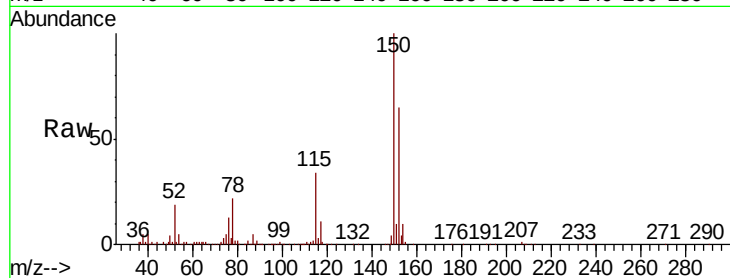
Tot Ion:152 Resp: 138650

Ion Ratio Lower Upper

152 100

115 53.3 26.4 79.2

150 151.6 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

