

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062482.D
 Acq On : 12 May 2019 2:55
 Operator : FY/SY
 Sample : K2733-20
 Misc : 5.61g/5mL/MSVOA F/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:54:19 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	235145	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	327092	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	273396	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	153073	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	106346	47.86	ug/l	0.03
Spiked Amount			Recovery	=	95.72%	
35) Dibromofluoromethane	4.32	113	136062	52.21	ug/l	0.02
Spiked Amount			Recovery	=	104.42%	
50) Toluene-d8	7.72	98	253073	40.12	ug/l	0.02
Spiked Amount			Recovery	=	80.24%	
62) 4-Bromofluorobenzene	11.51	95	114476	40.22	ug/l	0.02
Spiked Amount			Recovery	=	80.44%	

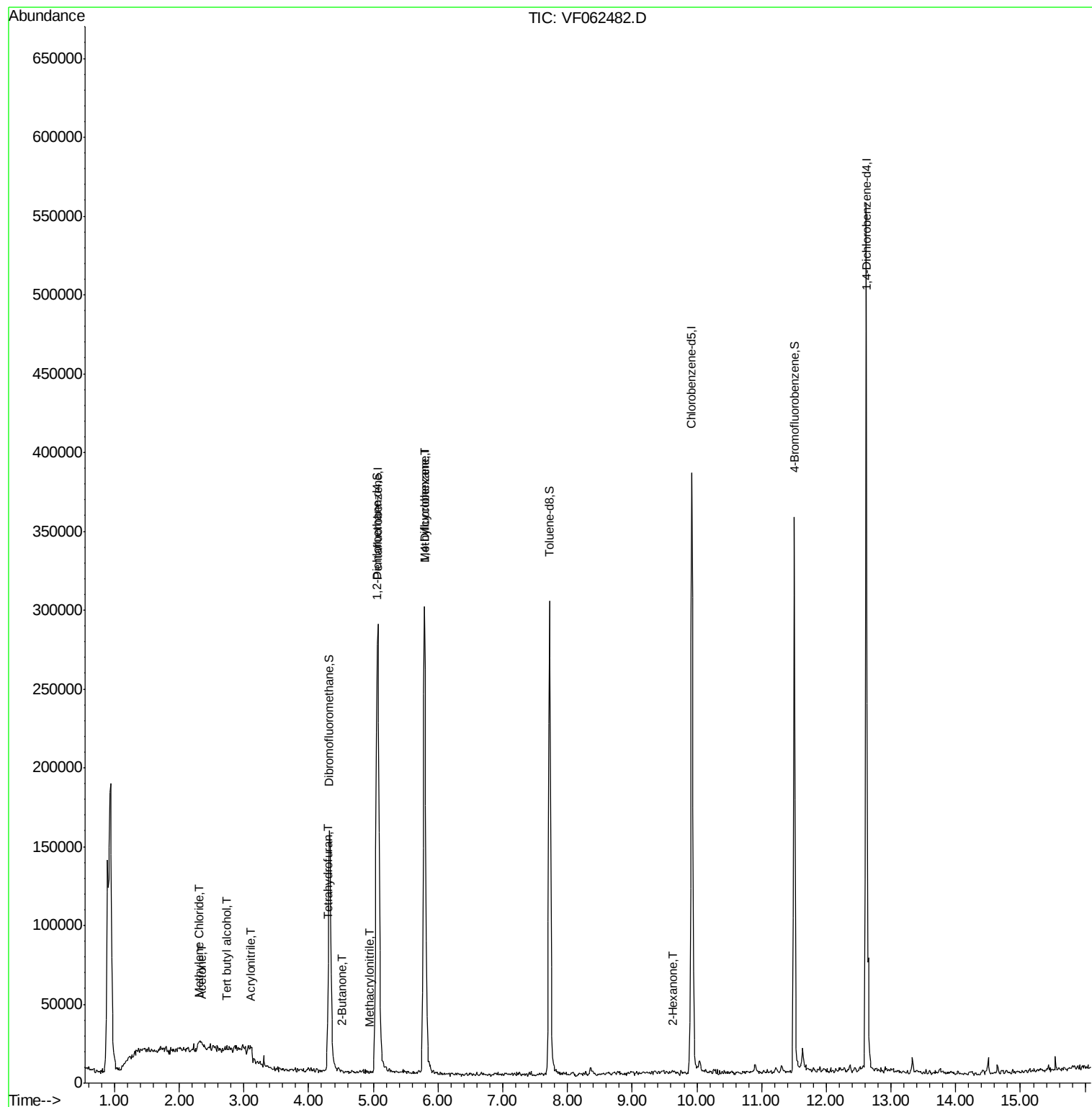
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	668	Below Cal	#	3
11) Tert butyl alcohol	2.73	59	513	4.085	ug/l #	70
13) Acrolein	2.11	56	480	Below Cal	#	50
15) Acrylonitrile	3.10	53	434	1.824	ug/l #	29
16) Acetone	2.36	43	5191	11.547	ug/l #	90
18) Methyl Acetate	2.46	43	1290	Below Cal	#	80
20) Methylene Chloride	2.30	84	2127	1.308	ug/l #	57
25) 2-Butanone	4.52	43	575	1.018	ug/l #	60
29) Tetrahydrofuran	4.29	42	599	2.308	ug/l #	51
37) Ethyl Acetate	4.30	43	415	Below Cal	#	86
38) Carbon Tetrachloride	4.19	117	66	Below Cal	#	14
39) Methylcyclohexane	5.79	83	5499	1.951	ug/l #	26
41) Methacrylonitrile	4.94	41	1065	1.581	ug/l #	41
49) 1,4-Dioxane	6.87	88	91	Below Cal	#	16
59) 2-Hexanone	9.63	43	1699	2.537	ug/l	81

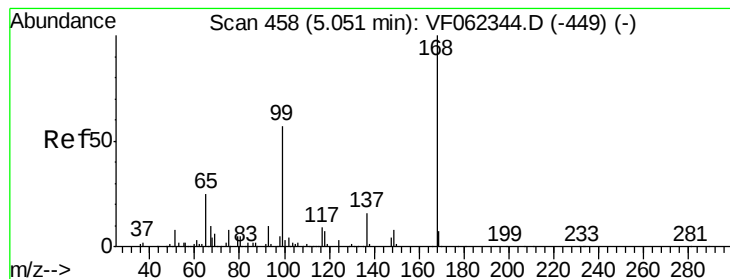
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

Instrument :

MSVOA_F

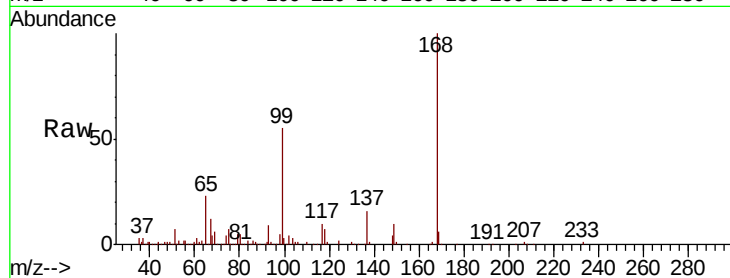
ClientSampleId :

Tot Ion:168 Resp: 235145

Ion Ratio Lower Upper

168 100

99 55.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

80000

60000

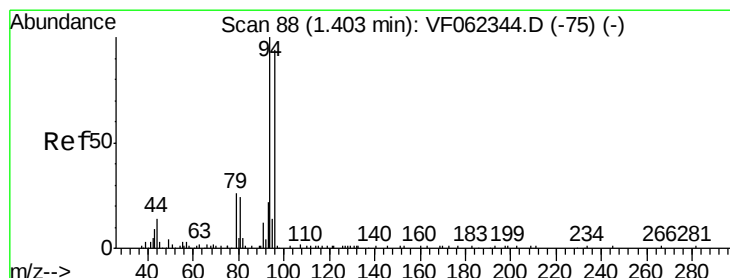
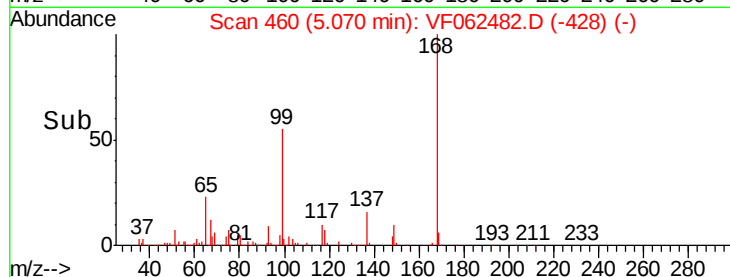
40000

20000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062482.D

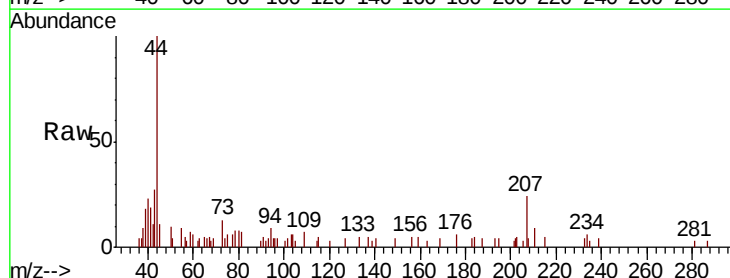
Acq: 12 May 2019 2:55

Tgt Ion: 94 Resp: 668

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.40

400

300

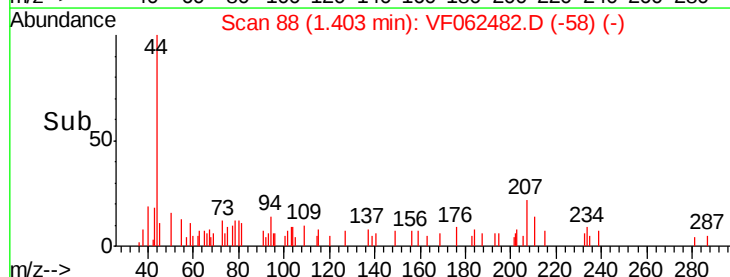
200

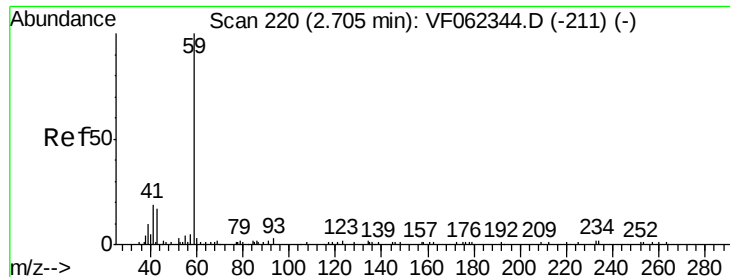
100

0

1.38 1.40 1.42

Time-->



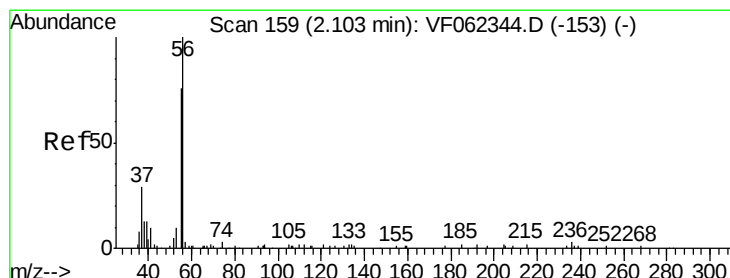
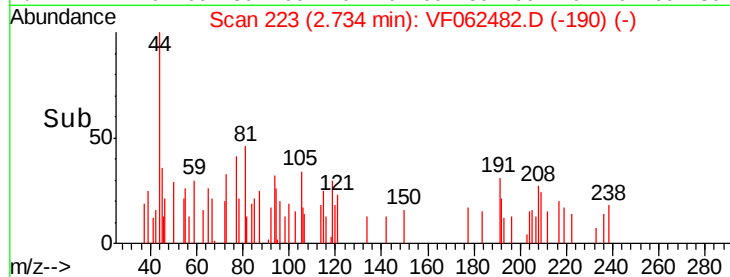
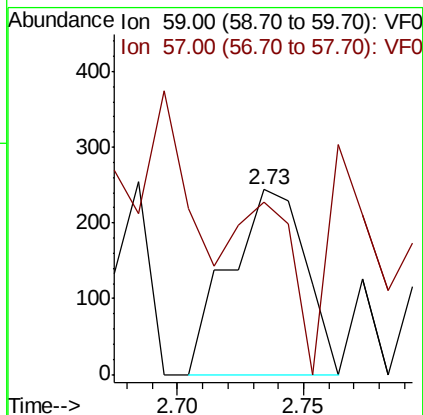
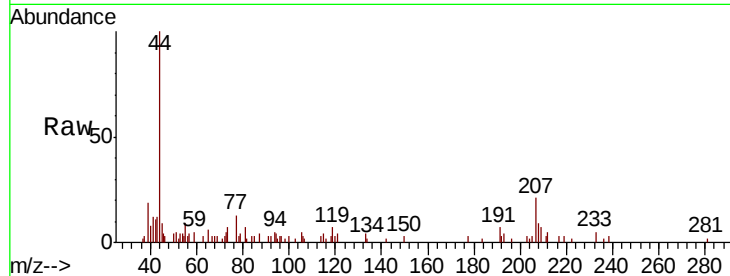


#11

Tert butyl alcohol
 Concen: 4.085 ug/l
 RT: 2.73 min Scan# 223
 Delta R.T. 0.03 min
 Lab File: VF062482.D
 Acq: 12 May 2019 2:55

Instrument :
 MSVOA_F
 ClientSampled :

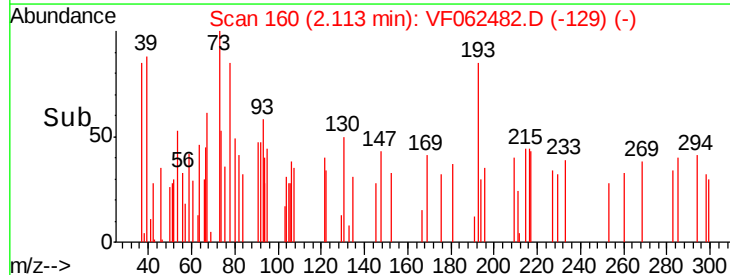
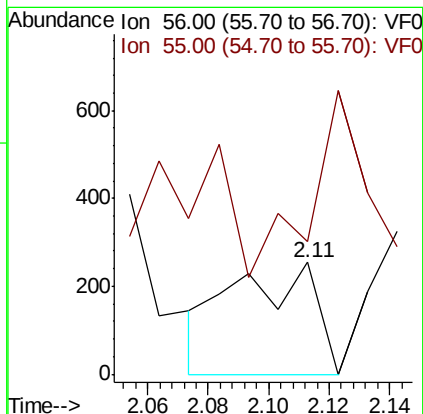
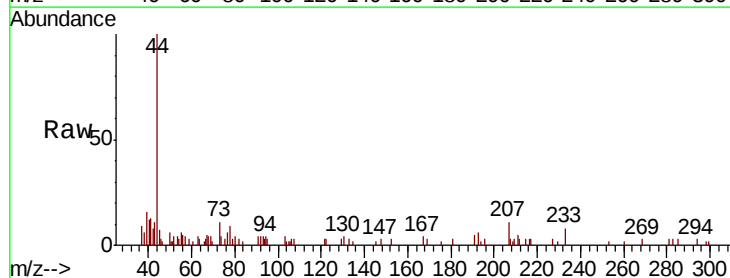
Tot Ion: 59 Resp: 513
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#



#13

Acrolein
 Concen: Below Cal
 RT: 2.11 min Scan# 160
 Delta R.T. 0.01 min
 Lab File: VF062482.D
 Acq: 12 May 2019 2:55

Tgt Ion: 56 Resp: 480
 Ion Ratio Lower Upper
 56 100
 55 114.6 58.4 87.6#





#15

Acrylonitrile

Concen: 1.824 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

Instrument :
MSVOA_F
ClientSampled :

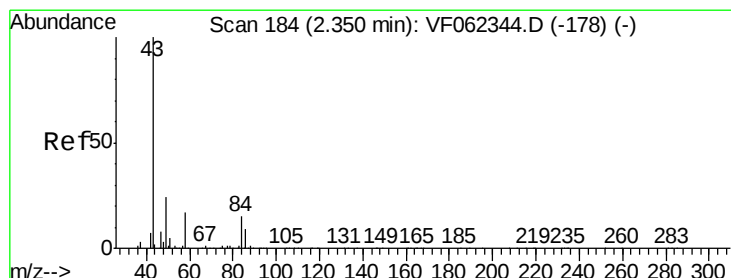
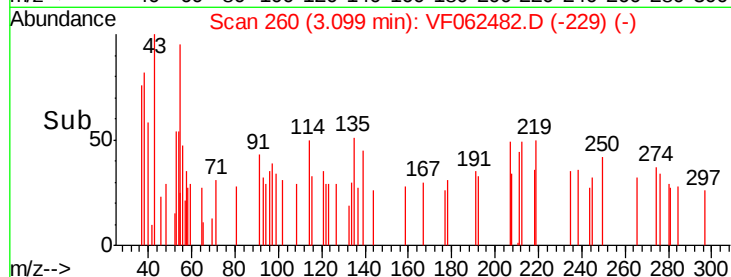
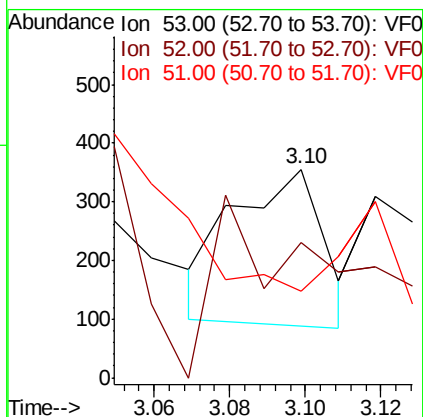
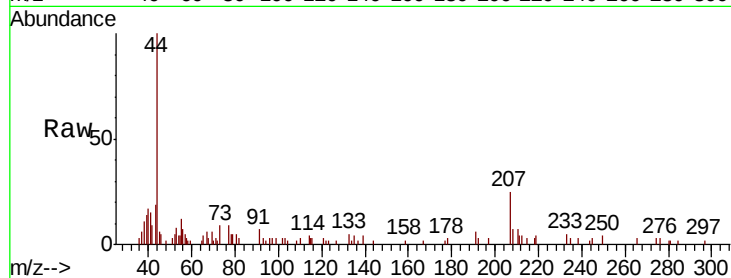
Tot Ion: 53 Resp: 434

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 36.9 40.6 61.0#



#16

Acetone

Concen: 11.547 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062482.D

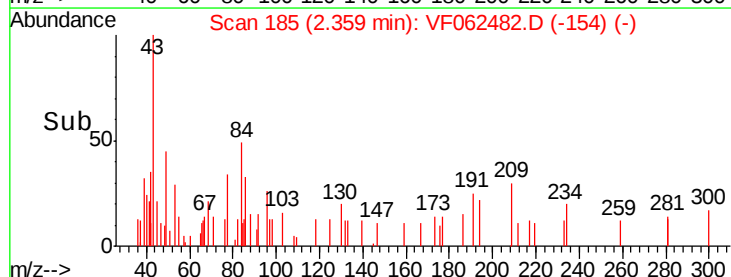
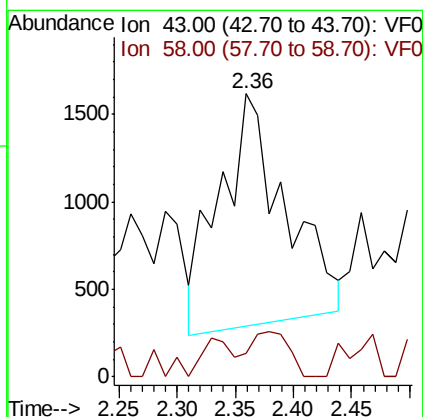
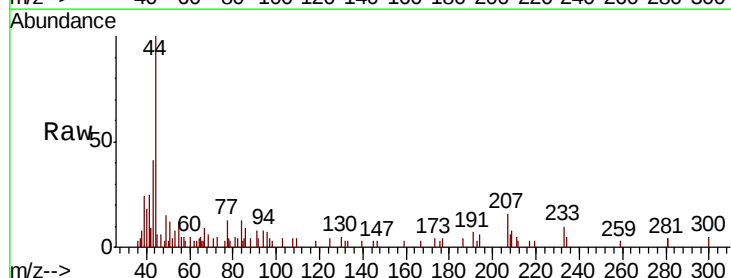
Acq: 12 May 2019 2:55

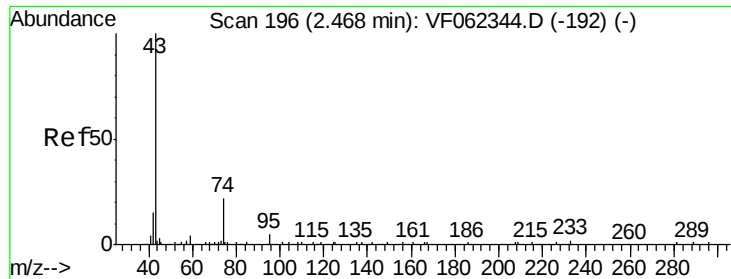
Tgt Ion: 43 Resp: 5191

Ion Ratio Lower Upper

43 100

58 12.3 13.1 19.7#

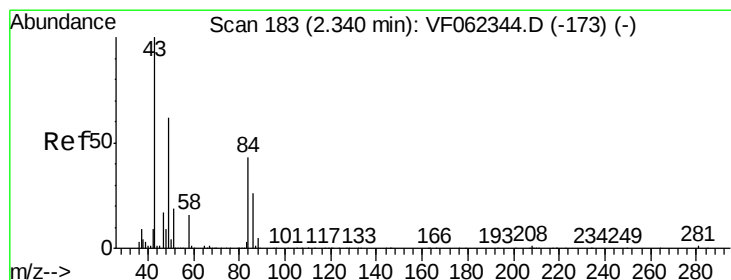
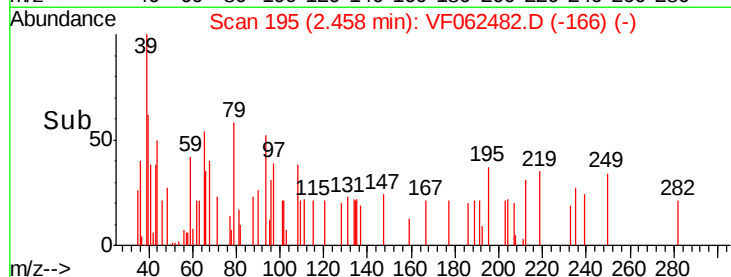
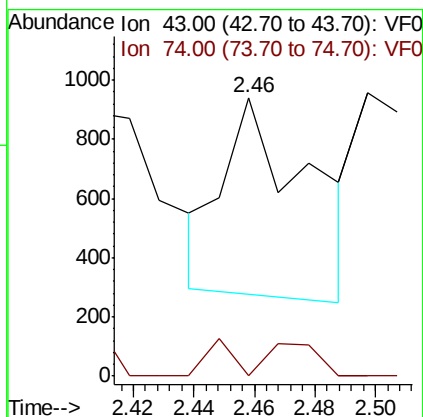
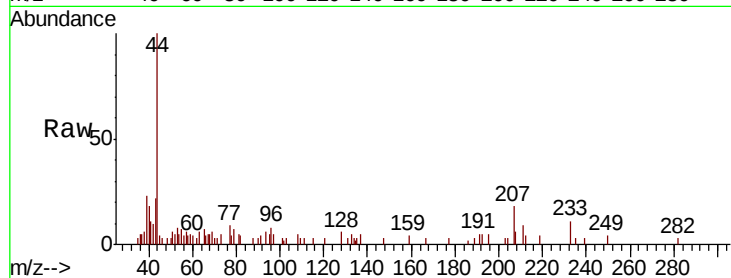




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062482.D
Acq: 12 May 2019 2:55

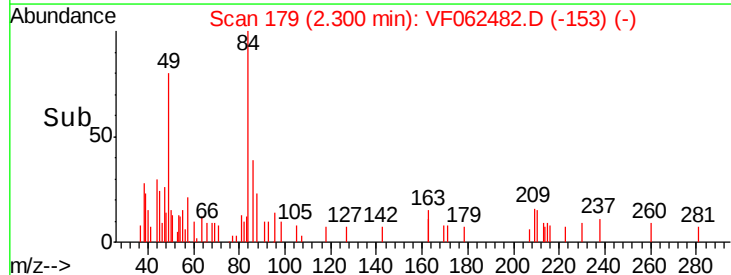
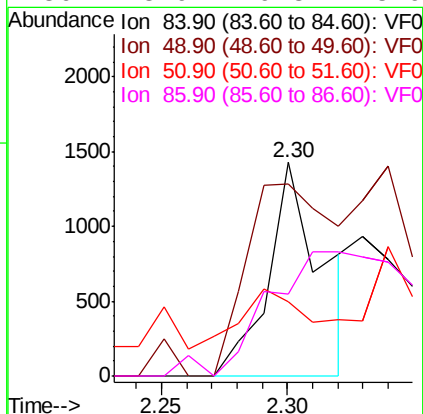
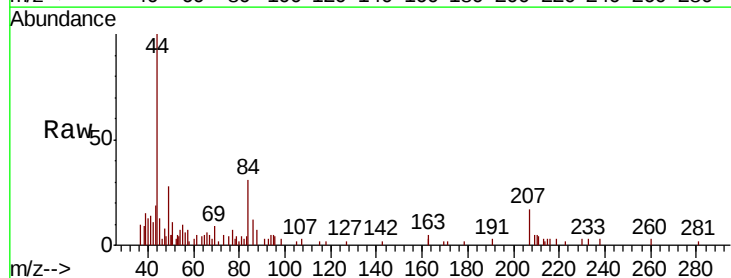
Instrument :
MSVOA_F
ClientSampleId :

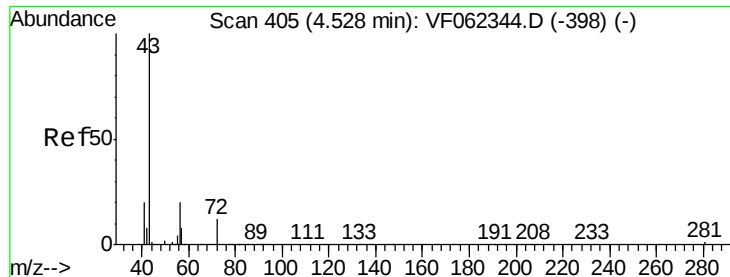
Tot Ion: 43 Resp: 1290
Ion Ratio Lower Upper
43 100
74 9.9 15.0 22.4#



#20
Methylene Chloride
Concen: 1.308 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062482.D
Acq: 12 May 2019 2:55

Tgt Ion: 84 Resp: 2127
Ion Ratio Lower Upper
84 100
49 90.1 117.5 176.3#
51 22.3 37.0 55.4#
86 28.9 49.3 73.9#





#25

2-Butanone

Concen: 1.018 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.01 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

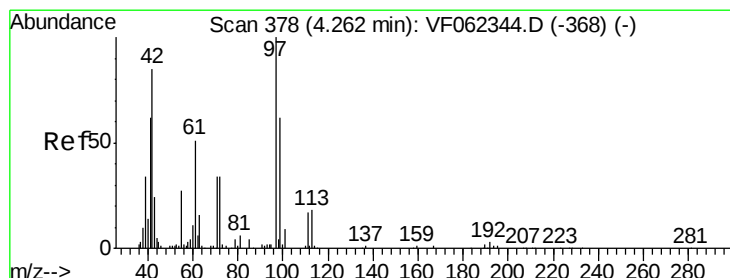
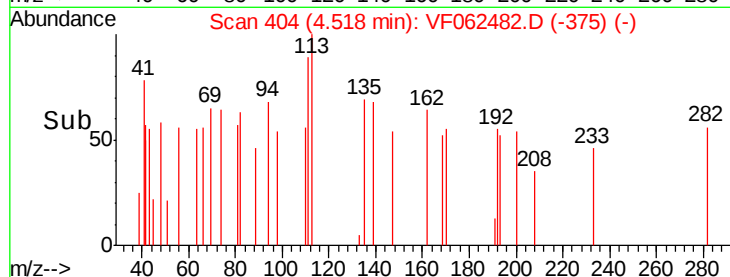
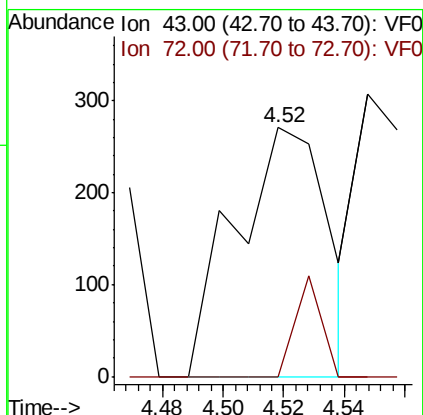
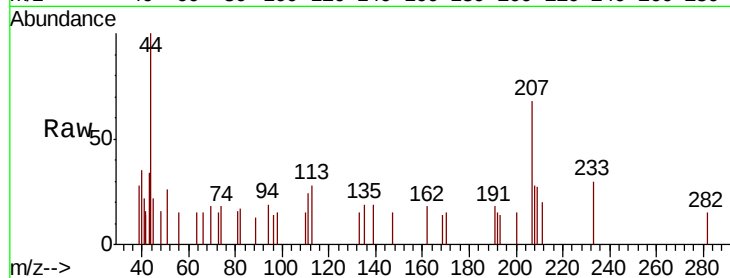
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 575

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: 2.308 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

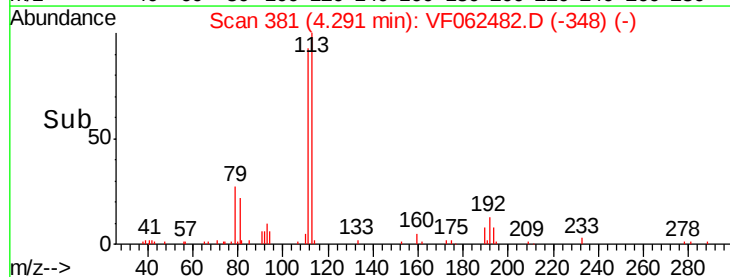
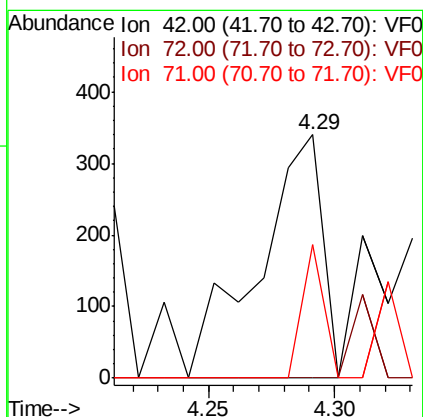
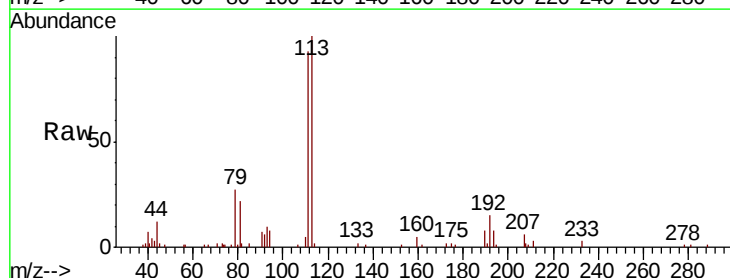
Tgt Ion: 42 Resp: 599

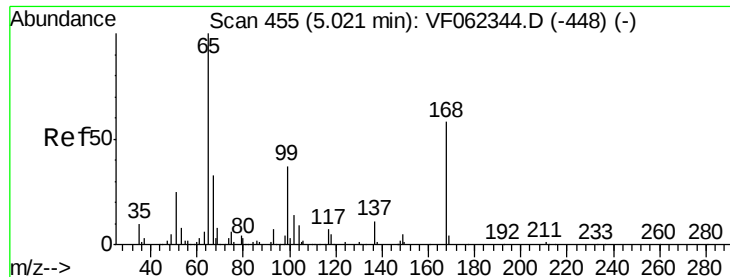
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 18.5 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 47.856 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

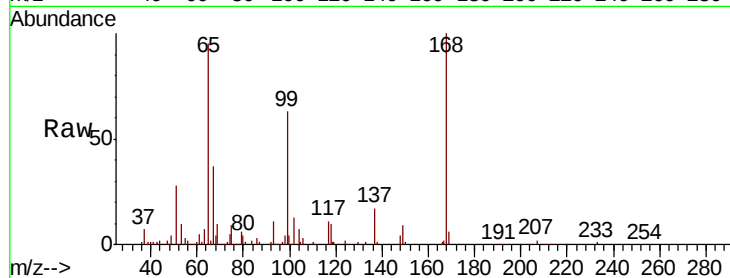
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 106346

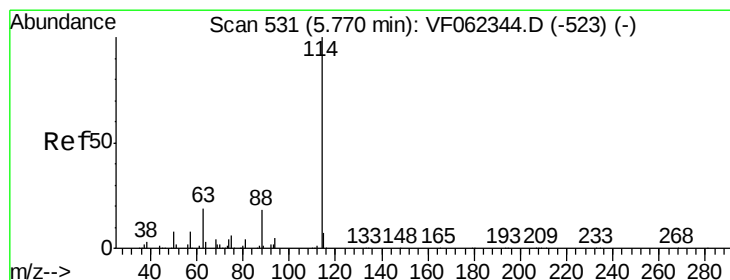
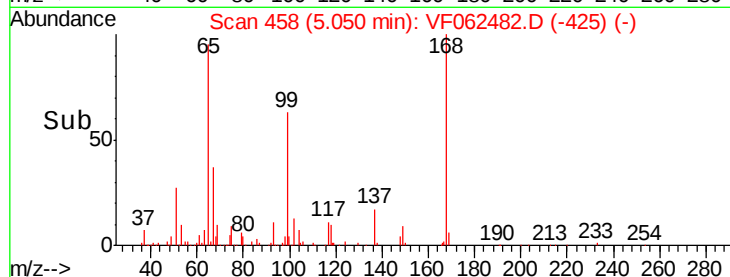
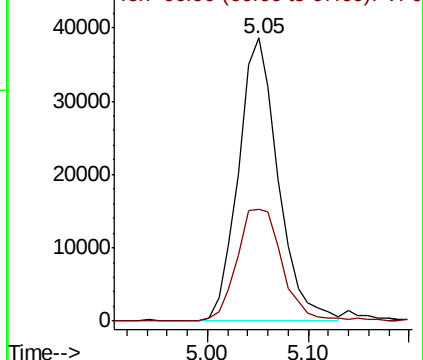
Ion Ratio Lower Upper

65 100

67 44.7 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0
Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

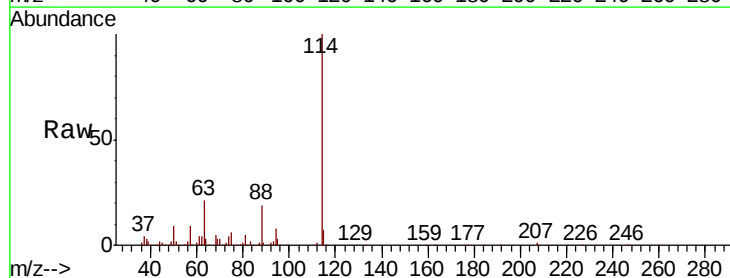
Tgt Ion: 114 Resp: 327092

Ion Ratio Lower Upper

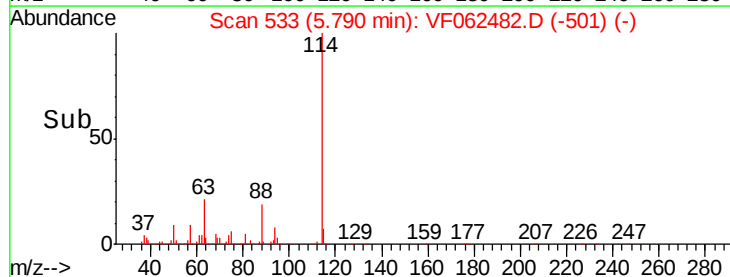
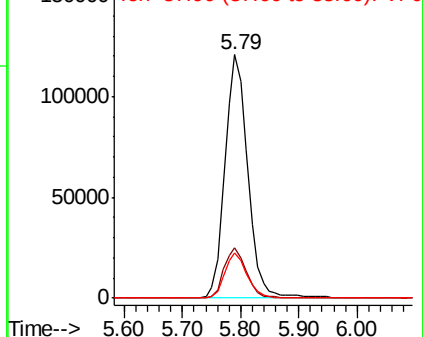
114 100

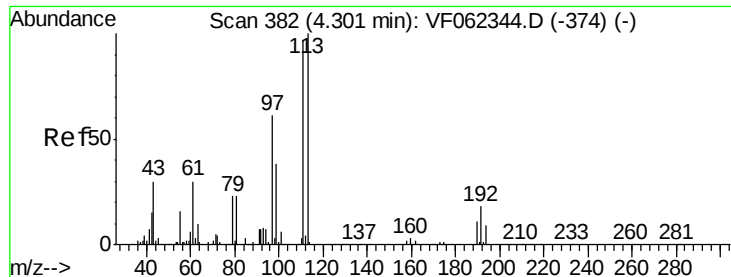
63 20.5 0.0 37.4

88 18.8 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

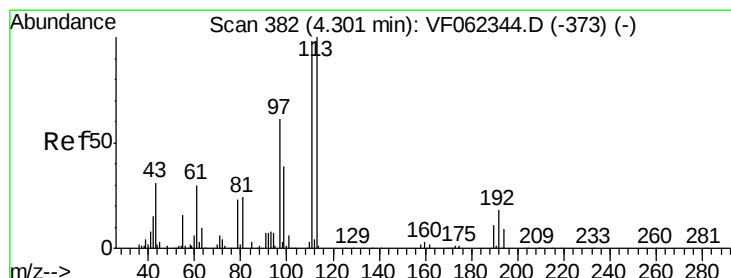
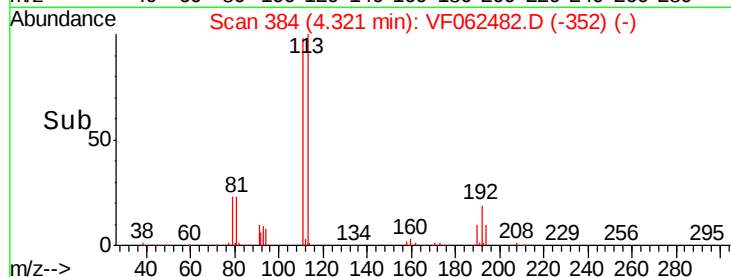
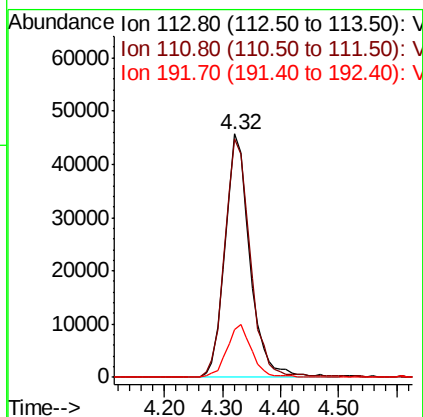
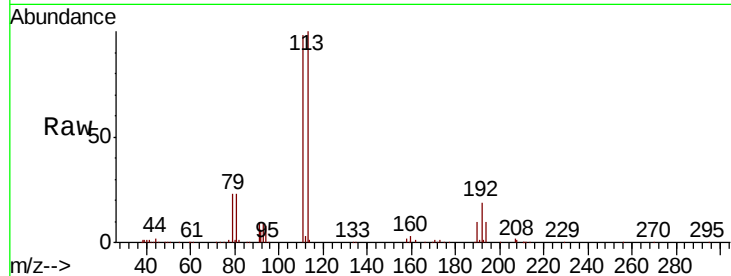




#35
 Dibromofluoromethane
 Concen: 52.213 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062482.D
 Acq: 12 May 2019 2:55

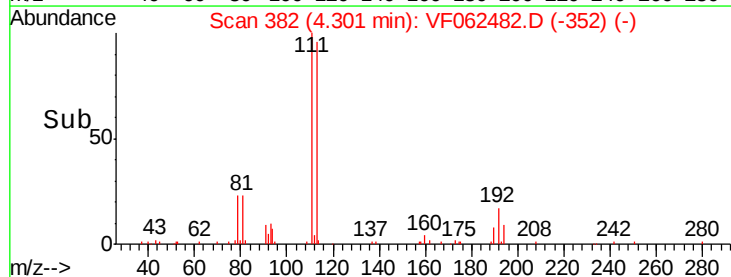
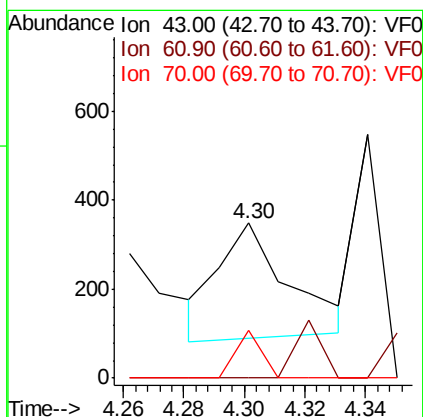
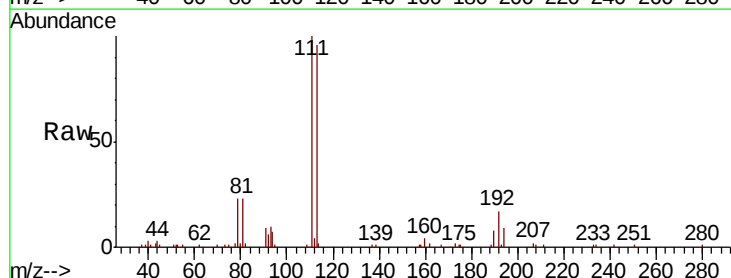
Instrument :
 MSVOA_F
 ClientSampleId :

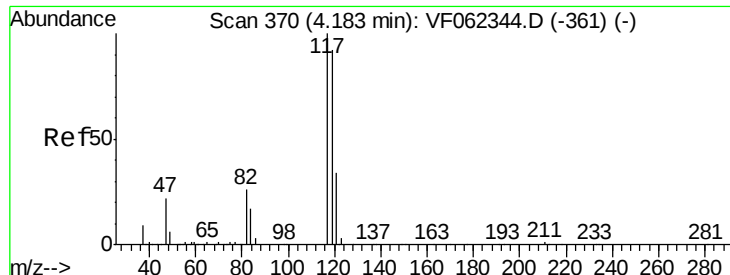
Tot Ion:113 Resp: 136062
 Ion Ratio Lower Upper
 113 100
 111 99.9 79.4 119.0
 192 21.1 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VF062482.D
 Acq: 12 May 2019 2:55

Tgt Ion: 43 Resp: 415
 Ion Ratio Lower Upper
 43 100
 61 18.6 0.0 0.0#
 70 15.4 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.19 min Scan# 371

Delta R.T. 0.01 min

Lab File: VF062482.D

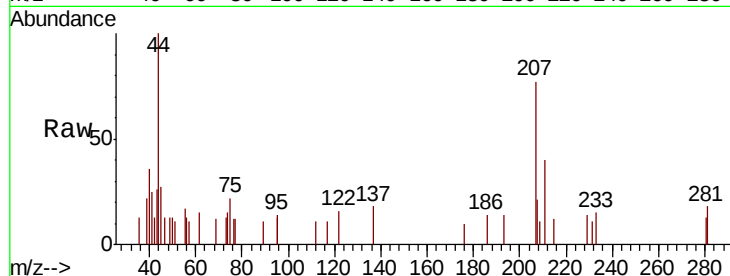
Acq: 12 May 2019 2:55

Instrument :

MSVOA_F

ClientSampled :

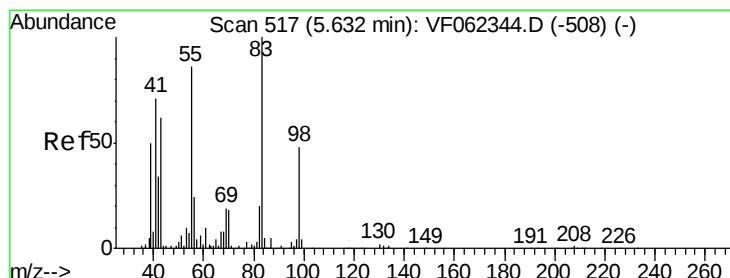
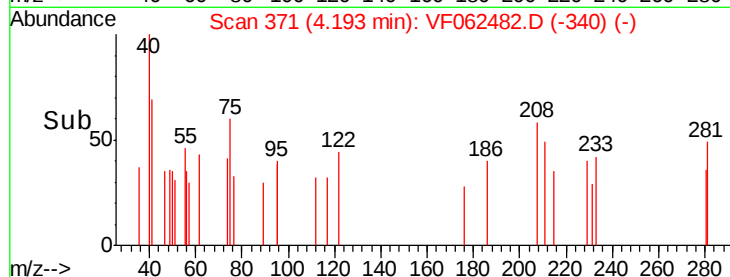
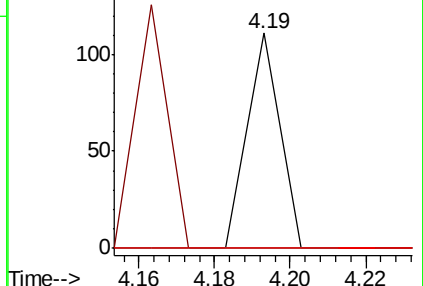
Tot Ion:	117	Resp:	66
Ion	Ratio	Lower	Upper
117	100		
119	0.0	73.4	110.2#
121	0.0	27.4	41.0#



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: 1.951 ug/l

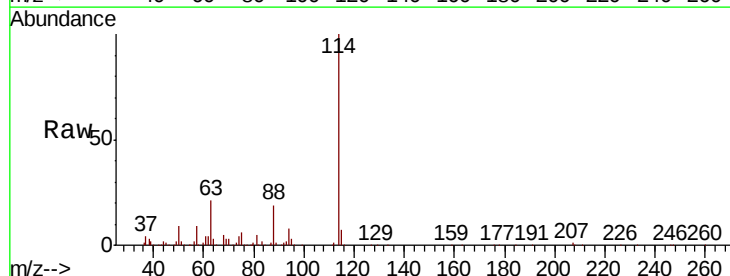
RT: 5.79 min Scan# 533

Delta R.T. 0.16 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

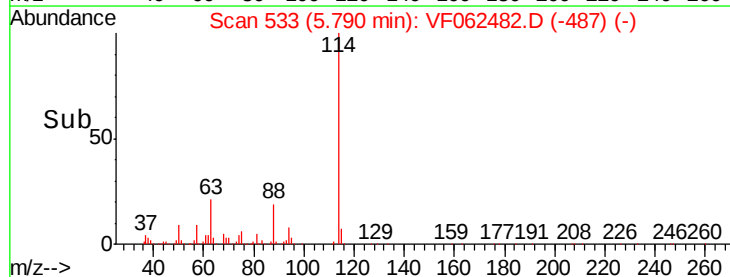
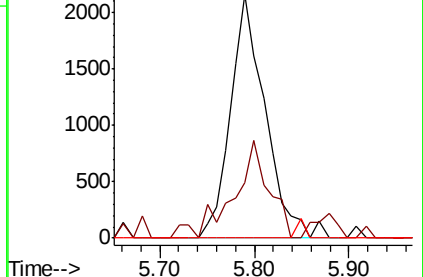
Tgt Ion:	83	Resp:	5499
Ion	Ratio	Lower	Upper
83	100		
55	17.4	69.0	103.6#
98	0.0	38.6	58.0#

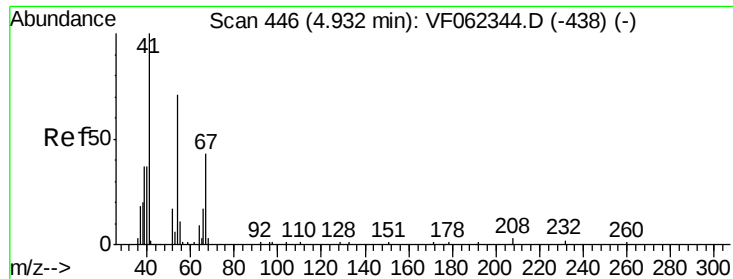


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

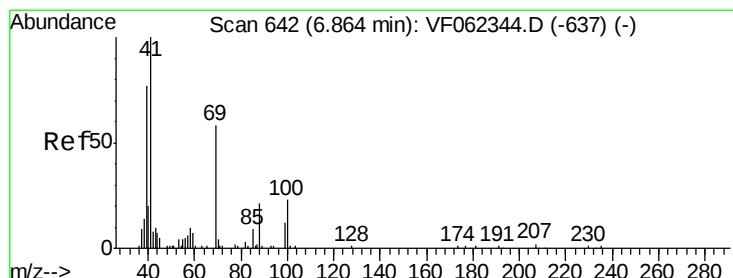
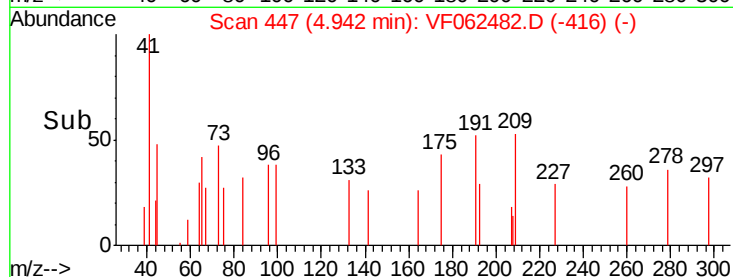
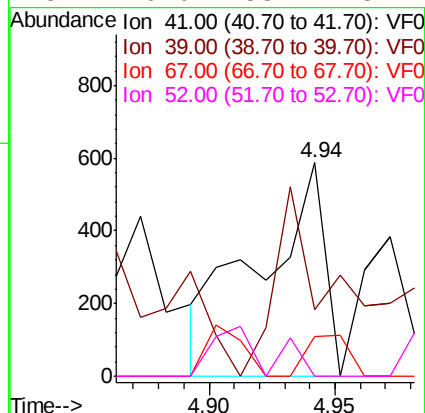
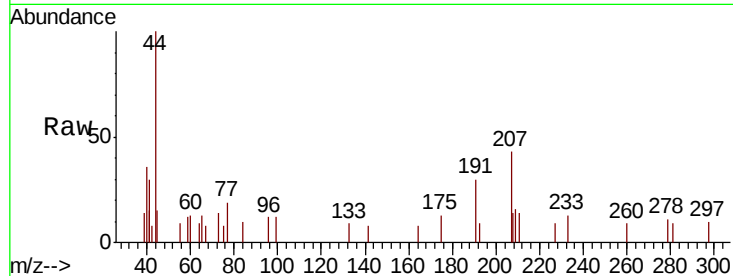




#41
Methacrylonitrile
Concen: 1.581 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.01 min
Lab File: VF062482.D
Acq: 12 May 2019 2:55

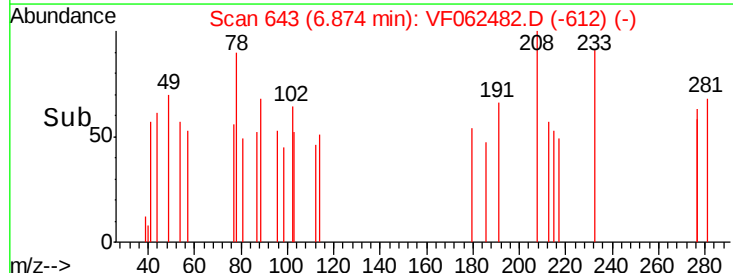
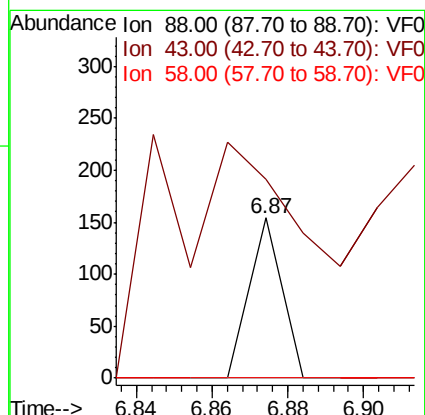
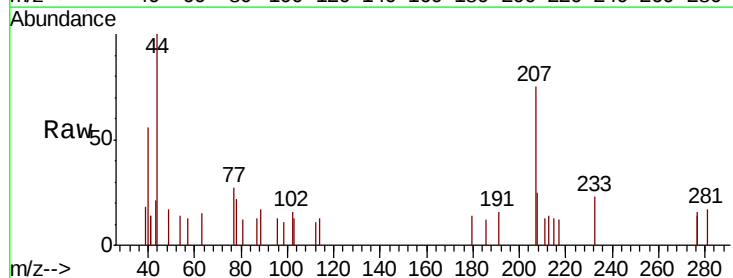
Instrument :
MSVOA_F
ClientSampled :

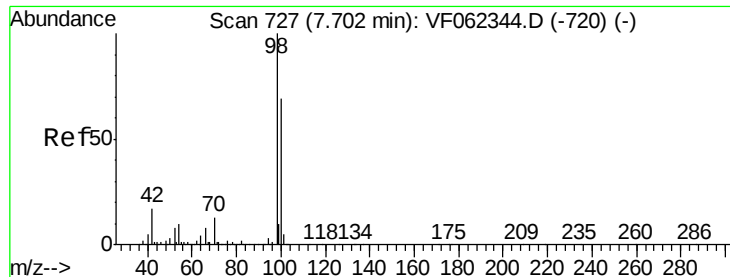
Tot Ion:	41	Resp:	1065
Ion	Ratio	Lower	Upper
41	100		
39	83.9	54.3	81.5#
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF062482.D
Acq: 12 May 2019 2:55

Tgt Ion:	88	Resp:	91
Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.6	83.4#
58	0.0	52.8	79.2#





#50

Toluene-d8

Concen: 40.120 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

Instrument :

MSVOA_F

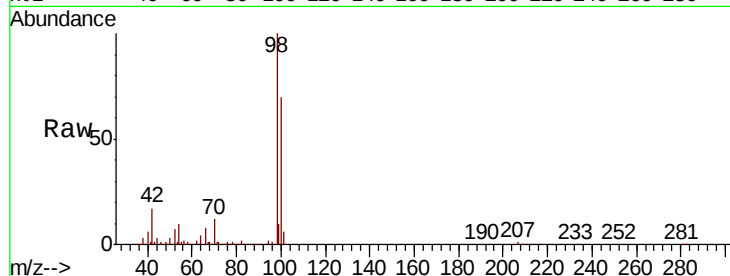
ClientSampleId :

Tot Ion: 98 Resp: 253073

Ion Ratio Lower Upper

98 100

100 67.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.72

120000

100000

80000

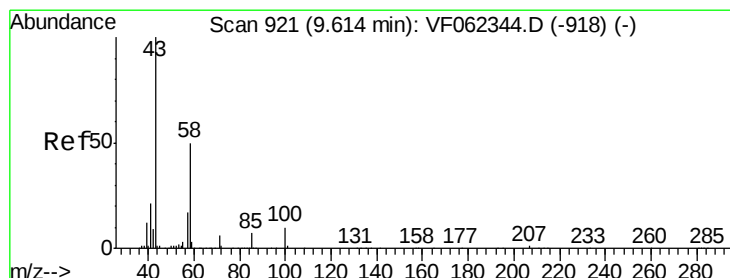
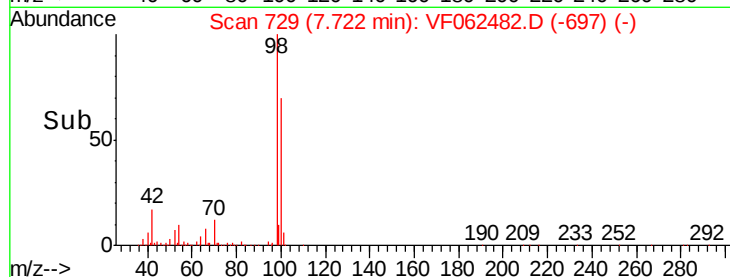
60000

40000

20000

0

Time-->



#59

2-Hexanone

Concen: 2.537 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.02 min

Lab File: VF062482.D

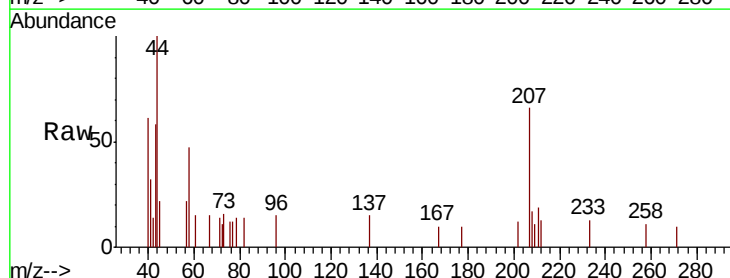
Acq: 12 May 2019 2:55

Tgt Ion: 43 Resp: 1699

Ion Ratio Lower Upper

43 100

58 36.0 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.63

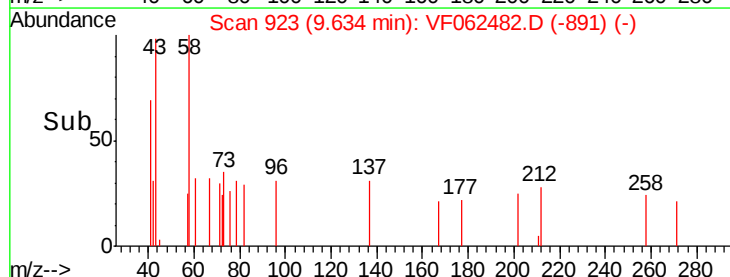
600

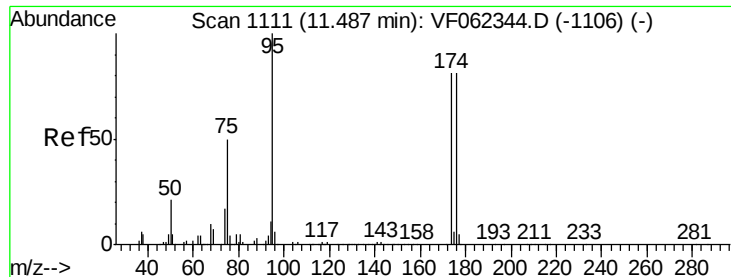
400

200

0

Time-->

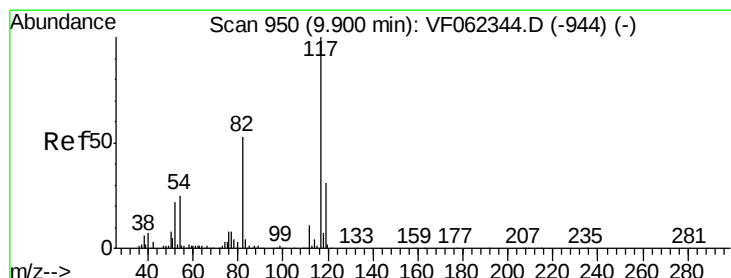
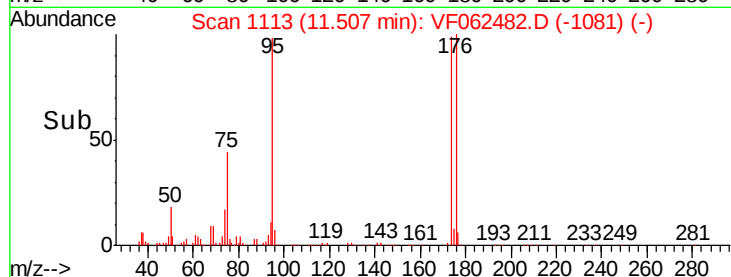
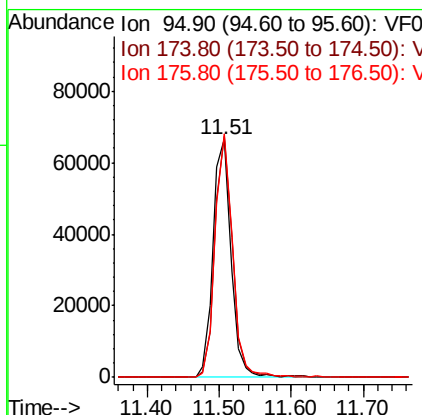
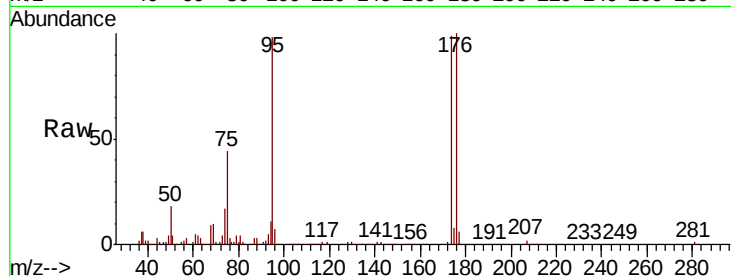




#62
4-Bromofluorobenzene
Concen: 40.225 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062482.D
Acq: 12 May 2019 2:55

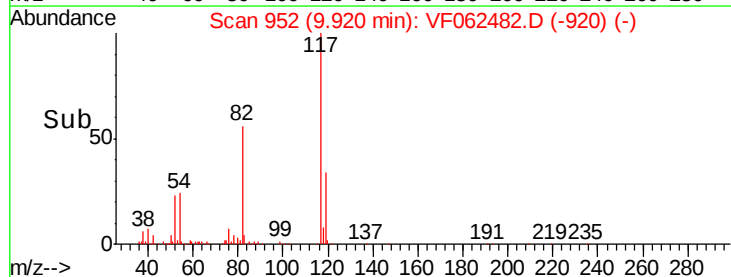
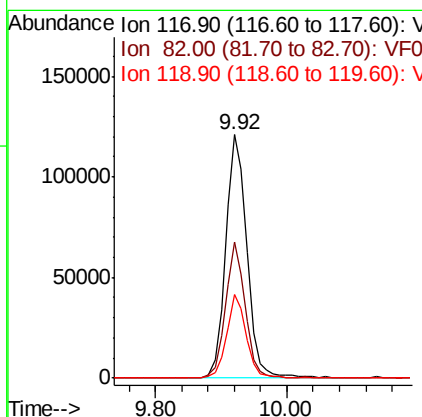
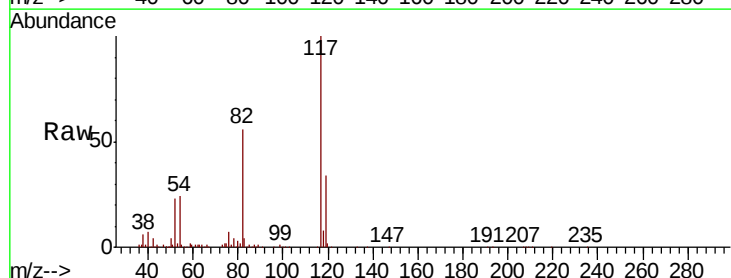
Instrument :
MSVOA_F
ClientSampleId :

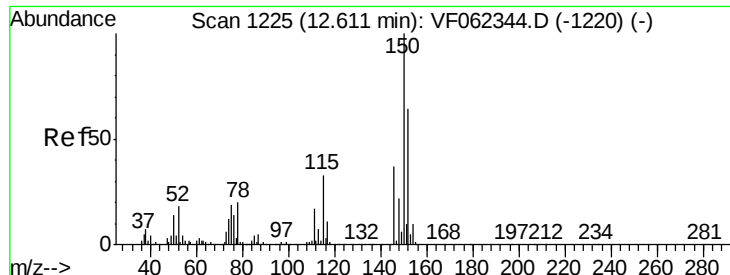
Tot Ion	95	Resp	114	476
Ion Ratio	Lower	Upper		
95	100			
174	97.7	0.0	191.8	
176	98.3	0.0	193.2	



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062482.D
Acq: 12 May 2019 2:55

Tgt Ion	117	Resp	273	396
Ion Ratio	Lower	Upper		
117	100			
82	55.8	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# 1226

Delta R.T. 0.01 min

Lab File: VF062482.D

Acq: 12 May 2019 2:55

Instrument :

MSVOA_F

ClientSampleId :

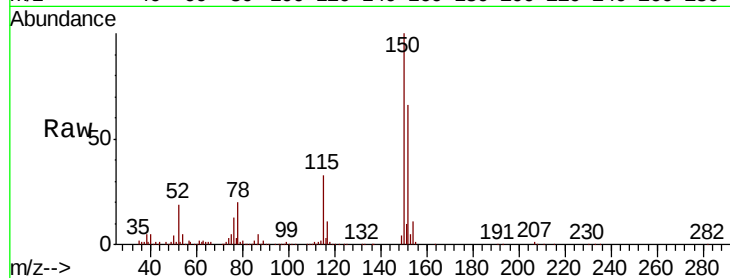
Tot Ion:152 Resp: 153073

Ion Ratio Lower Upper

152 100

115 53.7 26.4 79.2

150 151.3 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

