

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061024.D
 Acq On : 14 Dec 2018 17:10
 Operator : VA/AP
 Sample : J6403-25RE
 Misc : 4.95µ/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 15 00:07:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	252301	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	385422	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	312854	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	113172	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	130321	43.85	ug/l	-0.05
Spiked Amount				50.000		
			Recovery	=	87.70%	
35) Dibromofluoromethane	4.10	113	147888	48.37	ug/l	-0.05
Spiked Amount				50.000		
			Recovery	=	96.74%	
50) Toluene-d8	7.54	98	383736	42.60	ug/l	-0.05
Spiked Amount				50.000		
			Recovery	=	85.20%	
62) 4-Bromofluorobenzene	11.41	95	137300	33.54	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	67.08%	

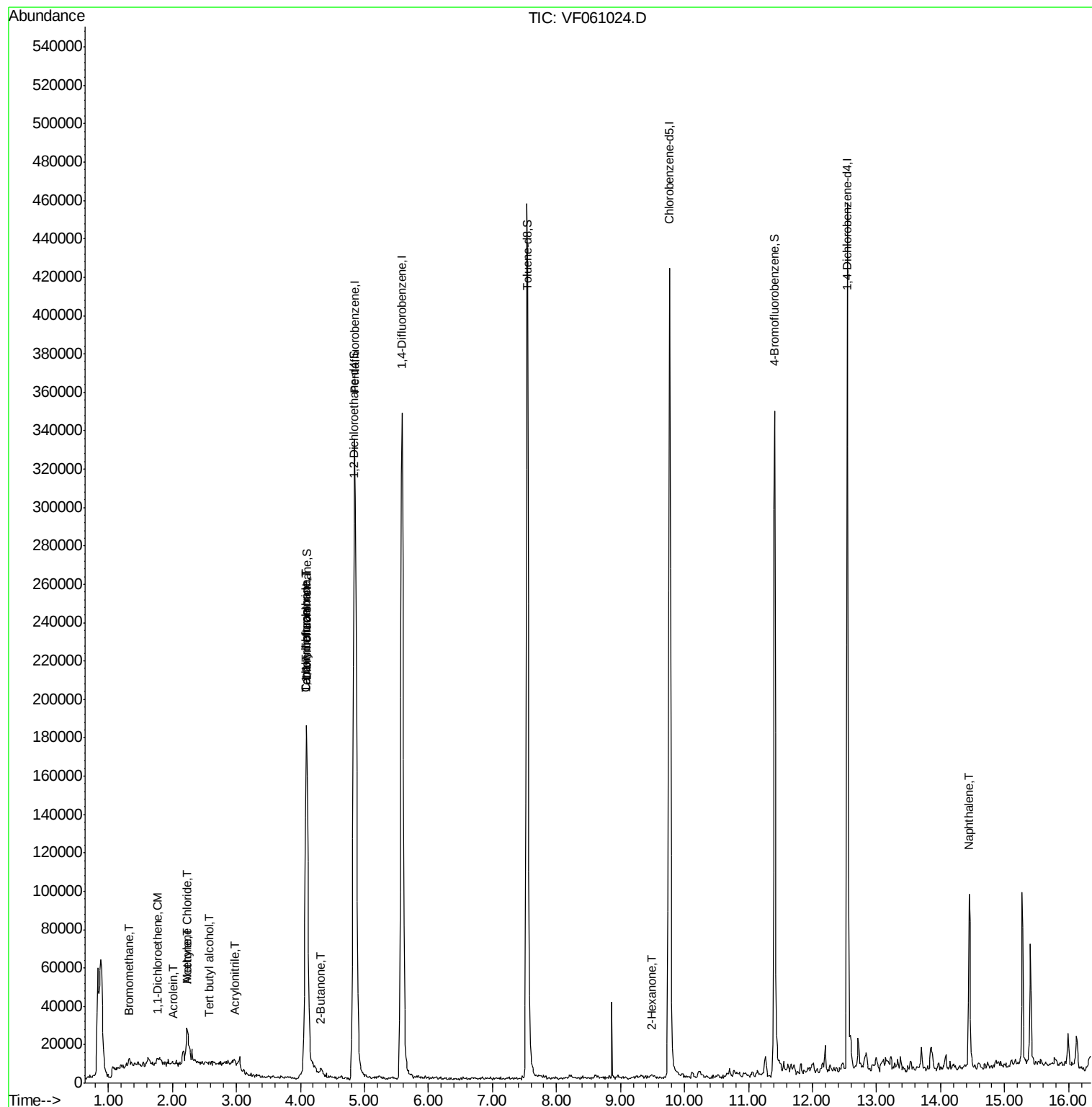
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.31	94	1879	1.164	ug/l #	2
11) Tert butyl alcohol	2.57	59	529	4.342	ug/l #	1
12) 1,1-Dichloroethene	1.76	96	2020	1.011	ug/l #	24
13) Acrolein	2.02	56	215	1.862	ug/l	89
15) Acrylonitrile	2.98	53	920	3.368	ug/l #	1
16) Acetone	2.22	43	23913	43.630	ug/l #	92
20) Methylene Chloride	2.22	84	5393	2.682	ug/l	91
25) 2-Butanone	4.33	43	5945	6.271	ug/l	97
29) Tetrahydrofuran	4.08	42	945	2.352	ug/l #	72
32) 1,1,1-Trichloroethane	4.08	97	47320	10.994	ug/l	98
38) Carbon Tetrachloride	4.08	117	5357	1.419	ug/l	94
41) Methacrylonitrile	4.72	41	378	Below Cal	#	50
43) Isopropyl Acetate	6.92	43	726	Below Cal	#	49
59) 2-Hexanone	9.48	43	1218	1.084	ug/l	93
95) Naphthalene	14.45	128	67618	11.417	ug/l	98

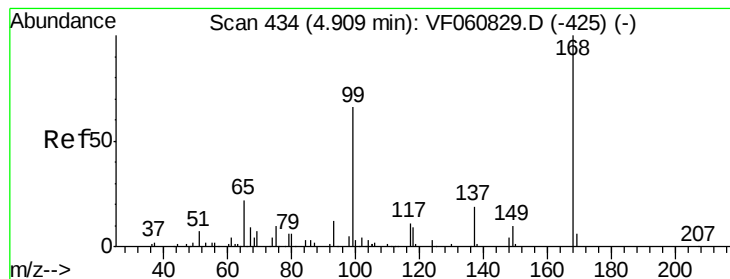
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121418\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

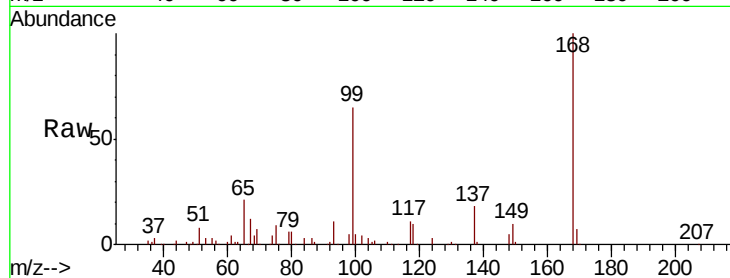
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 252301

Ion Ratio Lower Upper

168 100

99 65.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

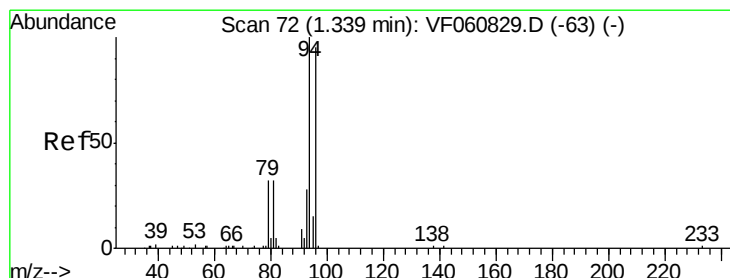
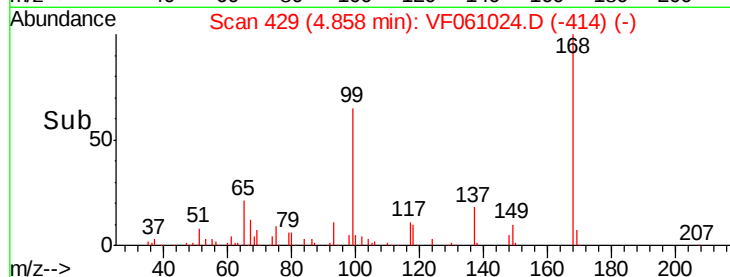
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 1.164 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.03 min

Lab File: VF061024.D

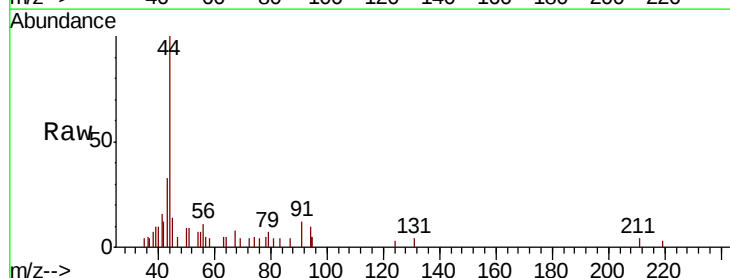
Acq: 14 Dec 2018 17:10

Tgt Ion: 94 Resp: 1879

Ion Ratio Lower Upper

94 100

96 0.0 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

500

400

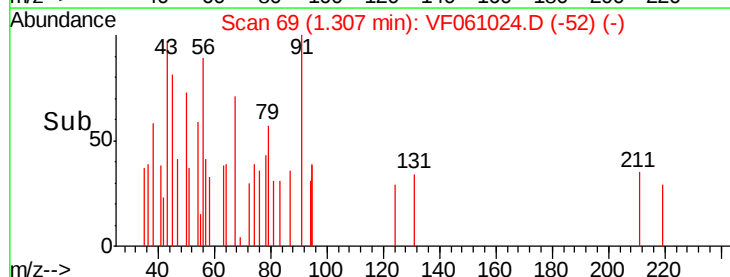
300

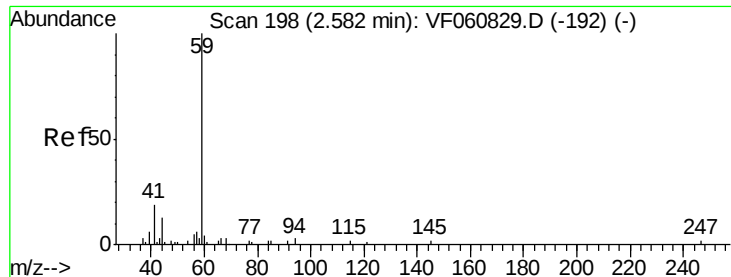
200

100

0

Time-->

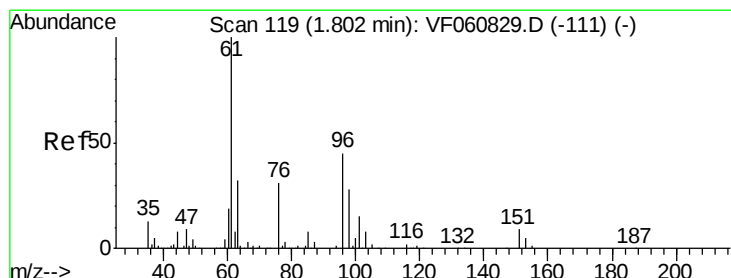
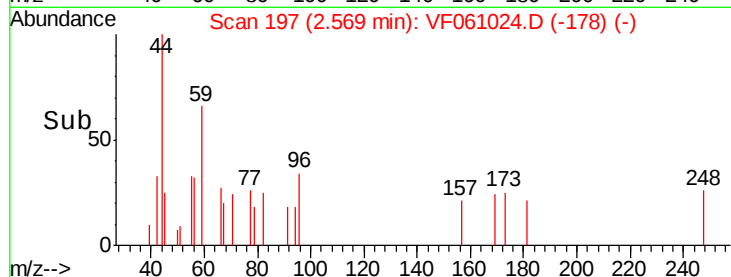
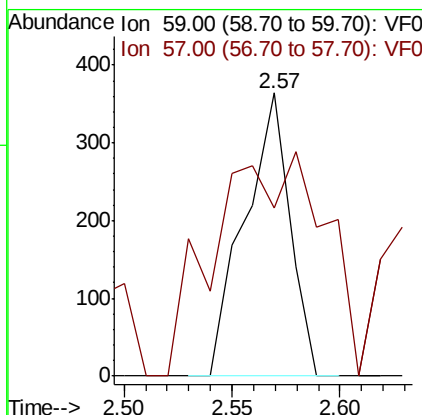
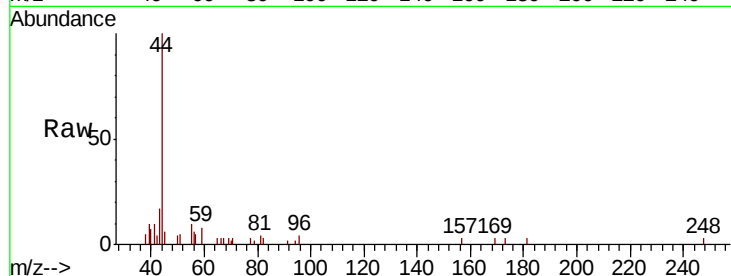




#11
Tert butyl alcohol
Concen: 4.342 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

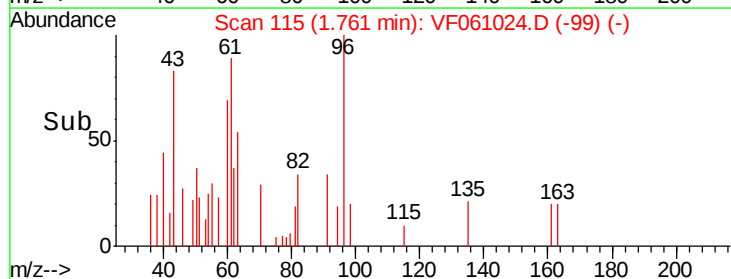
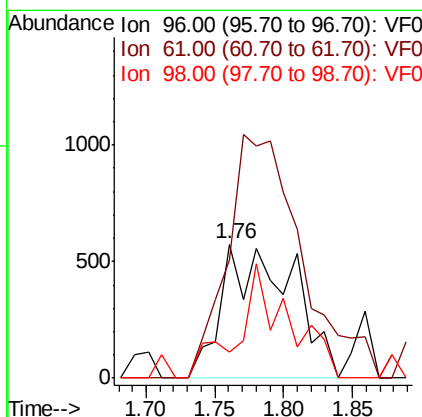
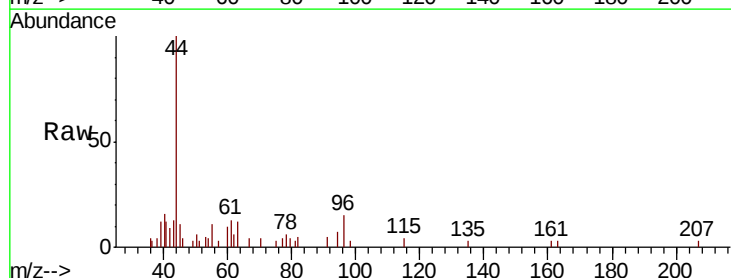
Instrument :
MSVOA_F
ClientSampleId :

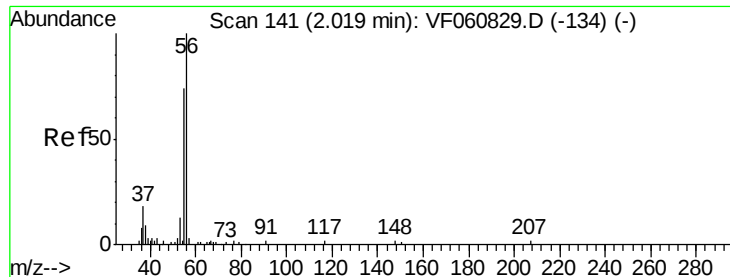
Tot Ion: 59 Resp: 529
Ion Ratio Lower Upper
59 100
57 59.3 12.7 19.1#



#12
1,1-Dichloroethene
Concen: 1.011 ug/l
RT: 1.76 min Scan# 115
Delta R.T. -0.04 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

Tgt Ion: 96 Resp: 2020
Ion Ratio Lower Upper
96 100
61 88.8 177.3 265.9#
98 19.9 49.6 74.4#

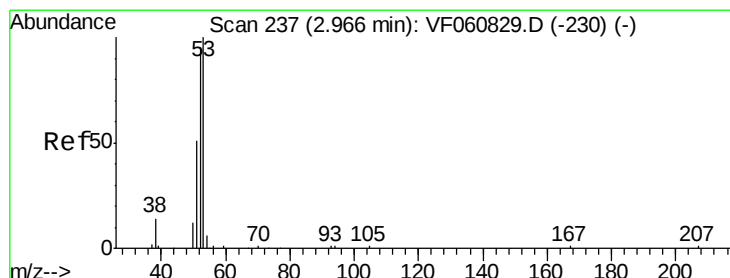
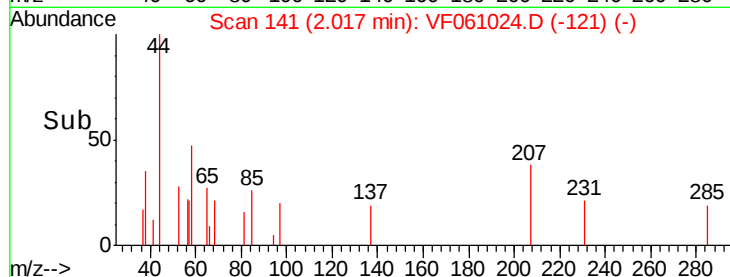
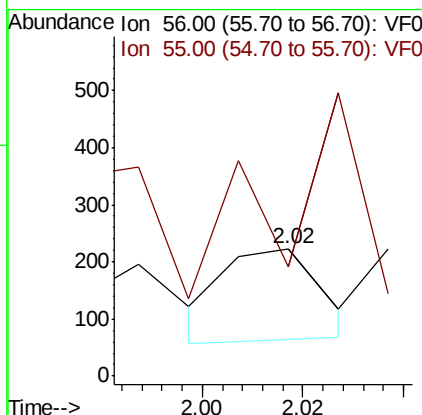
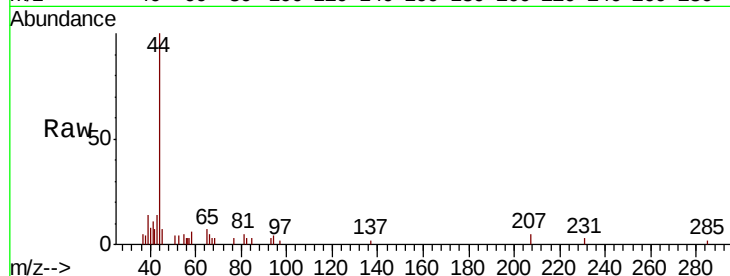




#13
Acrolein
Concen: 1.862 ug/l
RT: 2.02 min Scan# 141
Delta R.T. -0.00 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

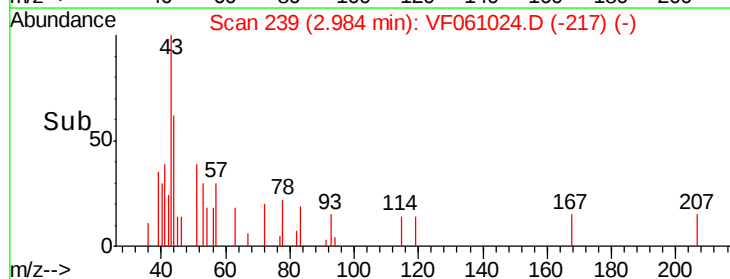
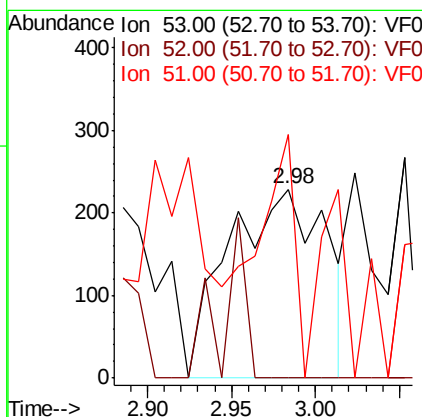
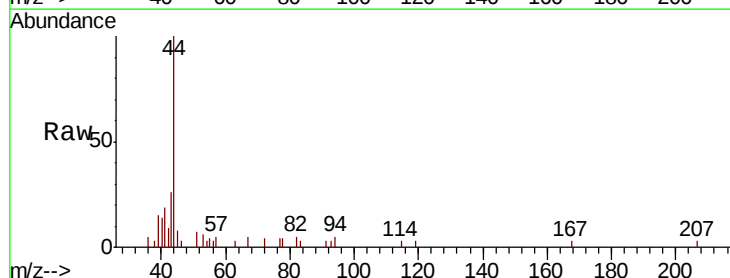
Instrument :
MSVOA_F
ClientSampled :

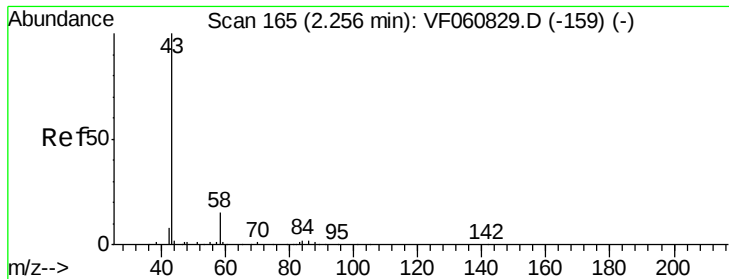
Tot Ion: 56 Resp: 215
Ion Ratio Lower Upper
56 100
55 85.7 61.2 91.8



#15
Acrylonitrile
Concen: 3.368 ug/l
RT: 2.98 min Scan# 239
Delta R.T. 0.02 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

Tgt Ion: 53 Resp: 920
Ion Ratio Lower Upper
53 100
52 0.0 76.5 114.7#
51 128.8 40.7 61.1#





#16

Acetone

Concen: 43.630 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

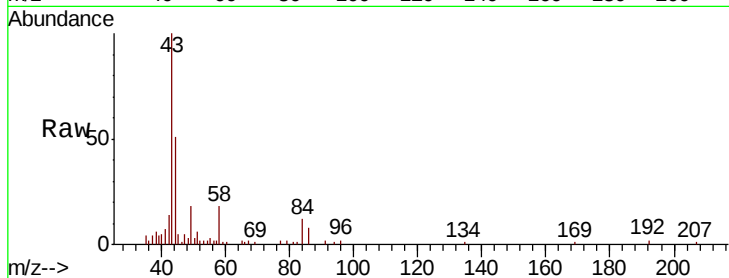
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 23913

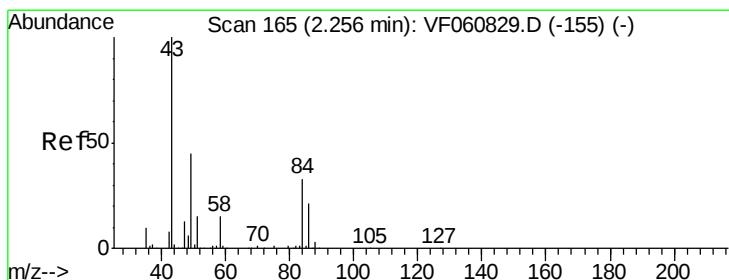
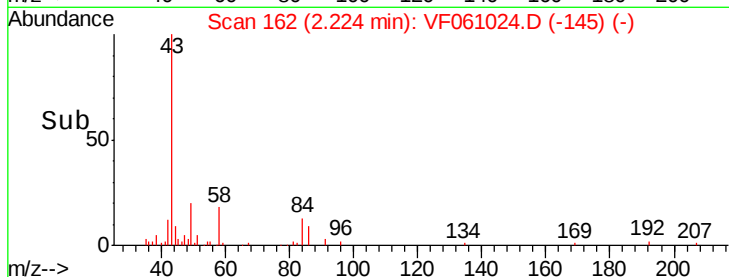
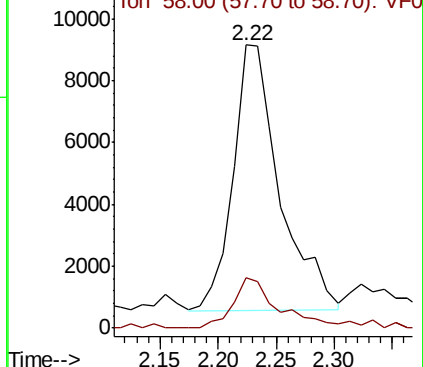
Ion Ratio Lower Upper

43 100

58 17.7 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: 2.682 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

Tgt Ion: 84 Resp: 5393

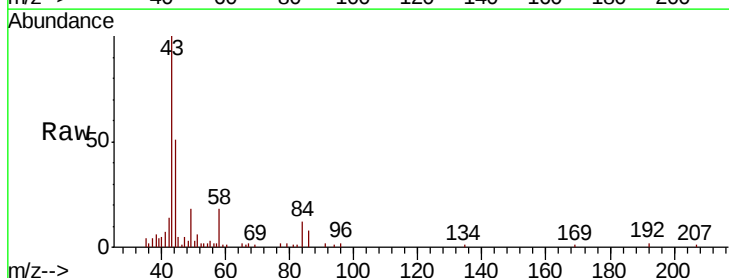
Ion Ratio Lower Upper

84 100

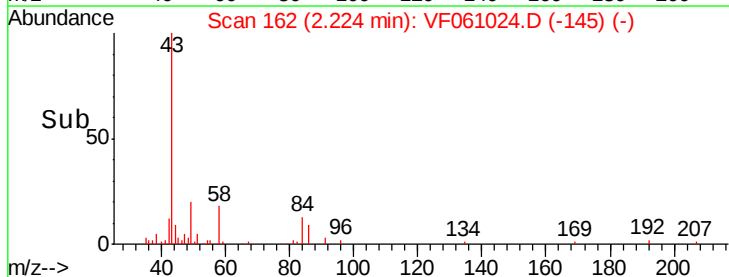
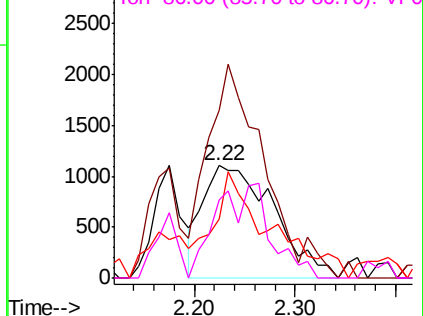
49 149.9 111.3 166.9

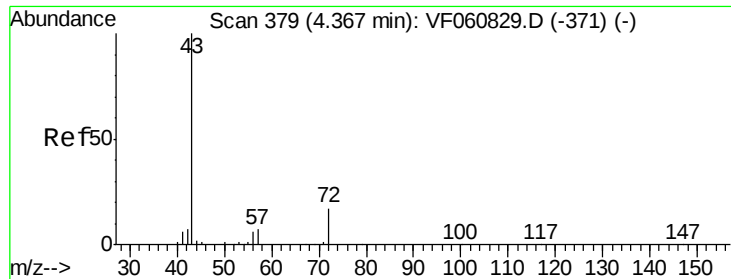
51 52.8 38.0 57.0

86 69.1 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 6.271 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

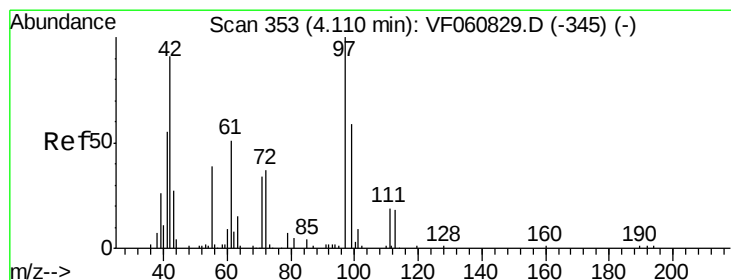
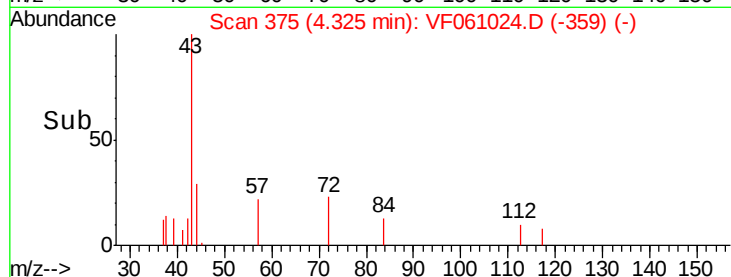
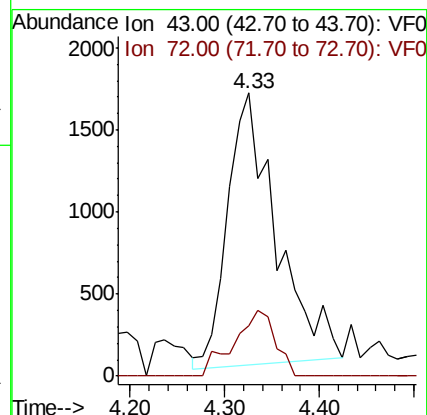
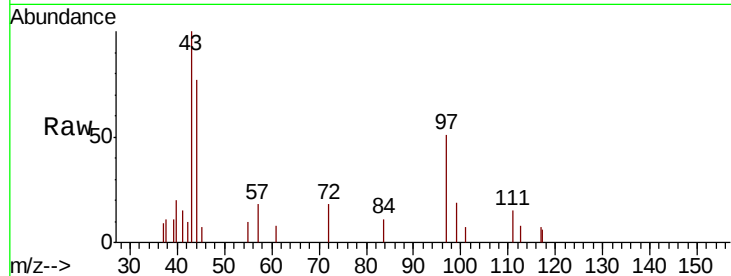
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 5945

Ion Ratio Lower Upper

43 100

72 17.9 15.4 23.2



#29

Tetrahydrofuran

Concen: 2.352 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

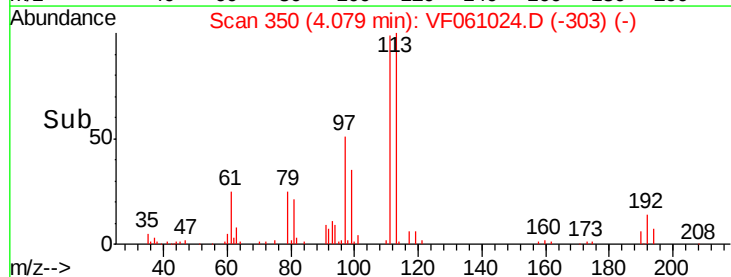
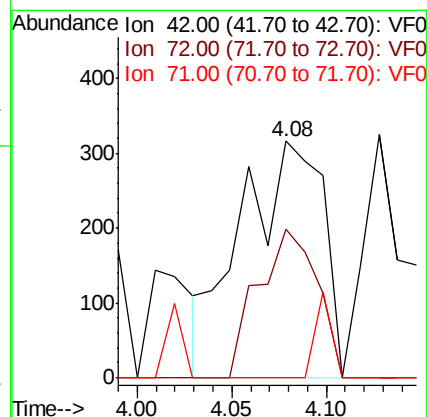
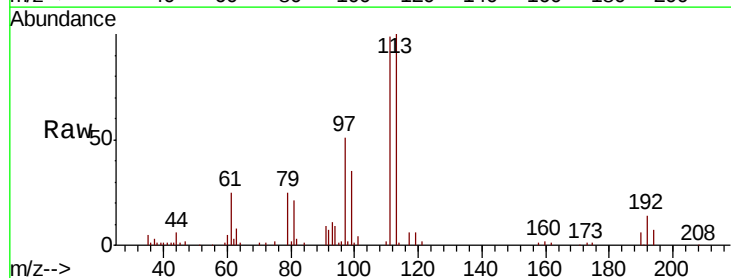
Tgt Ion: 42 Resp: 945

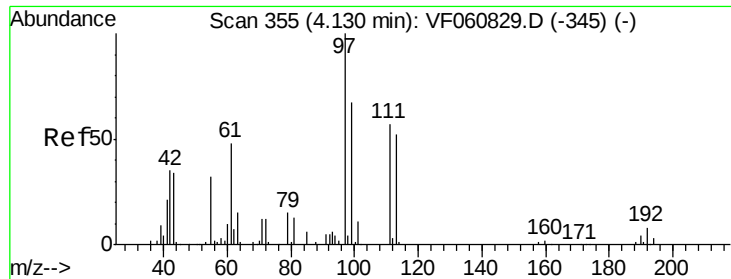
Ion Ratio Lower Upper

42 100

72 45.6 31.9 47.9

71 7.2 28.7 43.1#





#32

1,1,1-Trichloroethane

Concen: 10.994 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.05 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

Instrument :

MSVOA_F

ClientSampled :

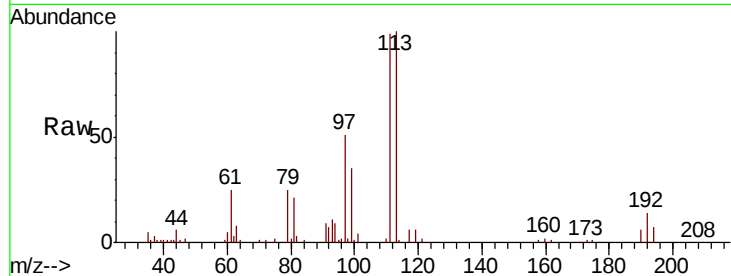
Tot Ion: 97 Resp: 47320

Ion Ratio Lower Upper

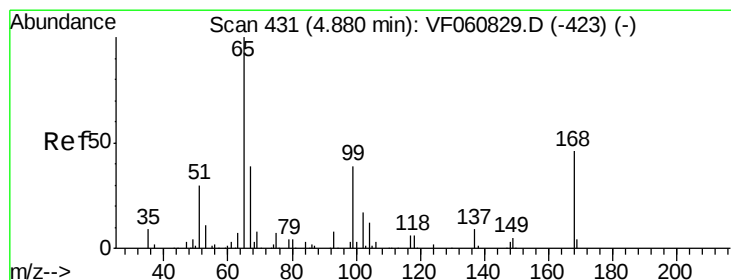
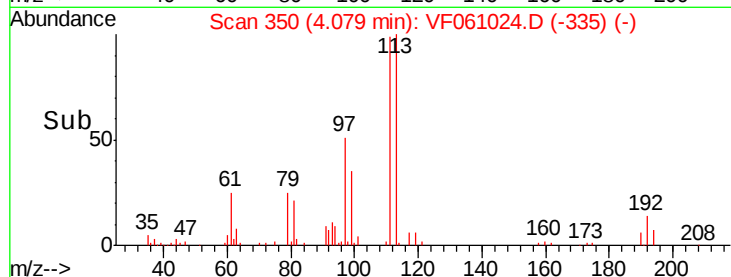
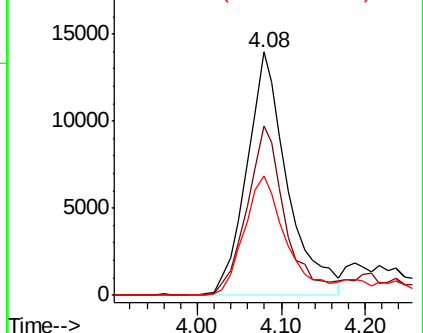
97 100

99 69.4 53.5 80.3

61 49.2 38.6 58.0



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 43.847 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF061024.D

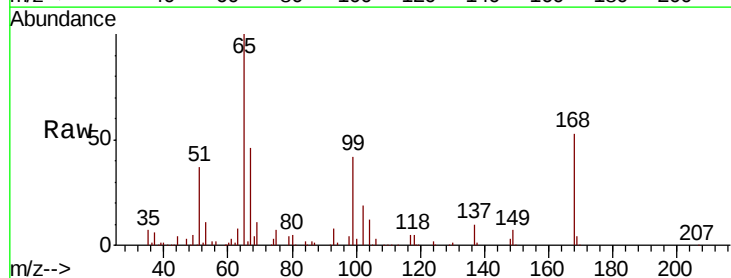
Acq: 14 Dec 2018 17:10

Tgt Ion: 65 Resp: 130321

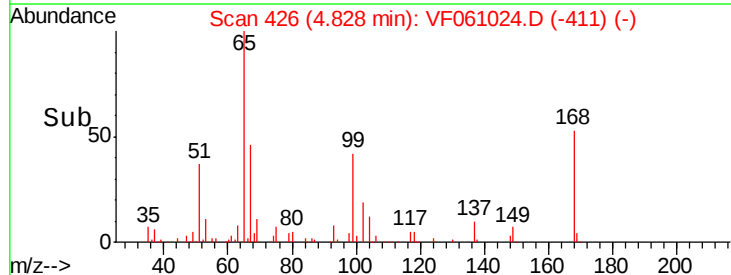
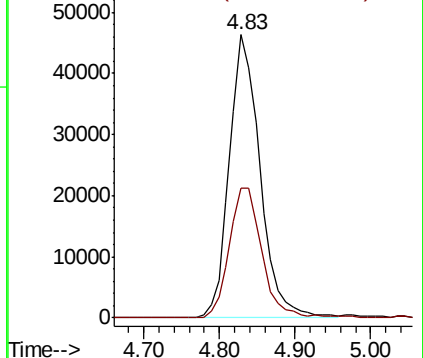
Ion Ratio Lower Upper

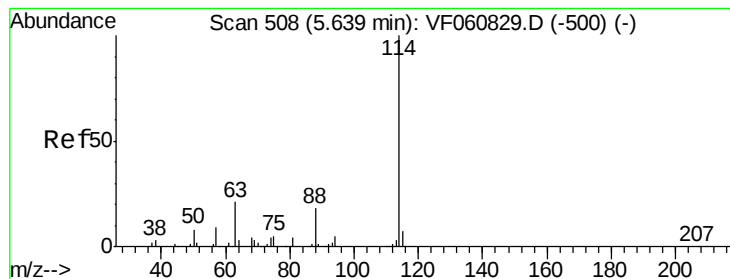
65 100

67 46.1 0.0 96.4



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

Instrument :

MSVOA_F

ClientSampleId :

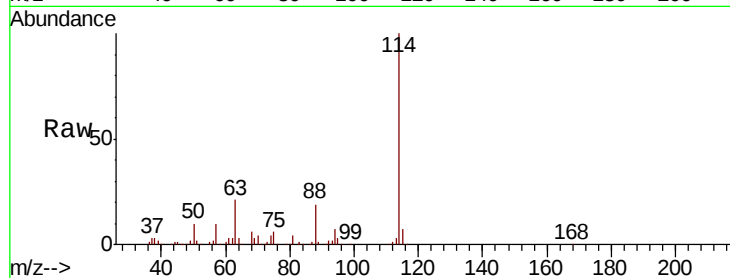
Tot Ion:114 Resp: 385422

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.6

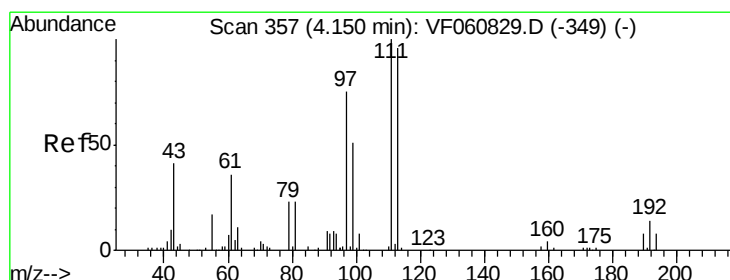
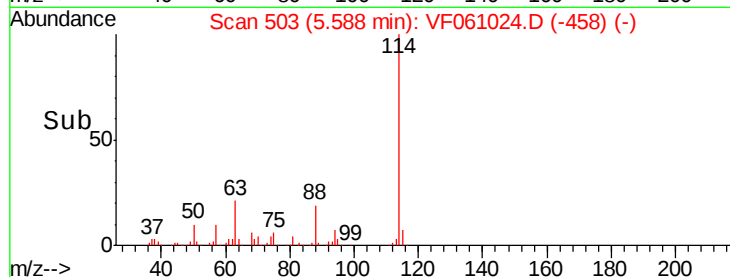
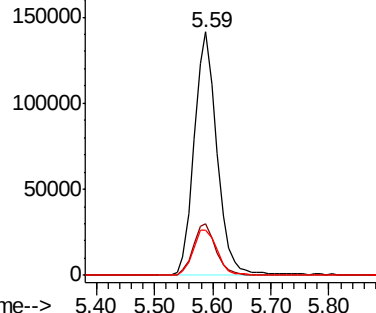
88 18.7 0.0 36.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 48.367 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

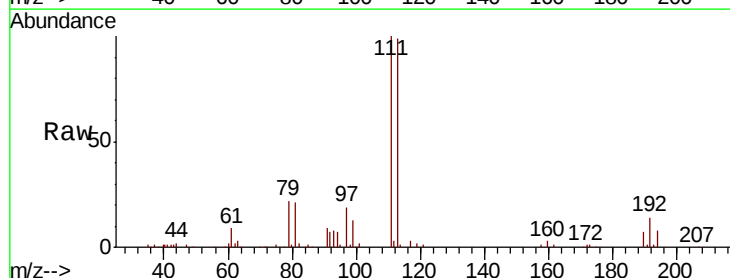
Tgt Ion:113 Resp: 147888

Ion Ratio Lower Upper

113 100

111 100.6 83.0 124.6

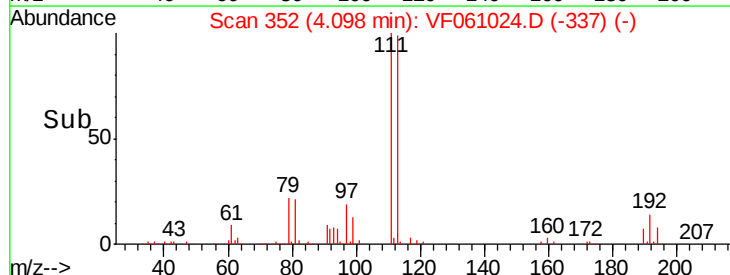
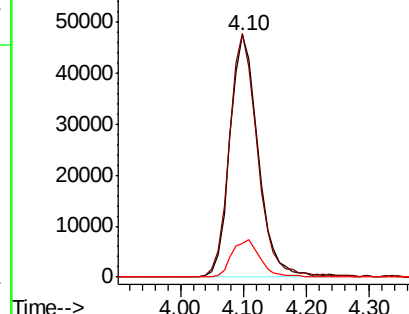
192 13.7 12.3 18.5

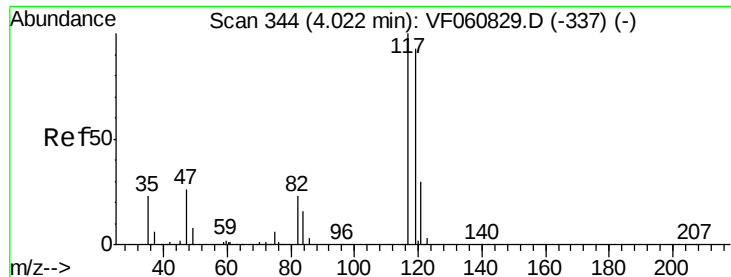


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#38

Carbon Tetrachloride

Concen: 1.419 ug/l

RT: 4.08 min Scan# 350

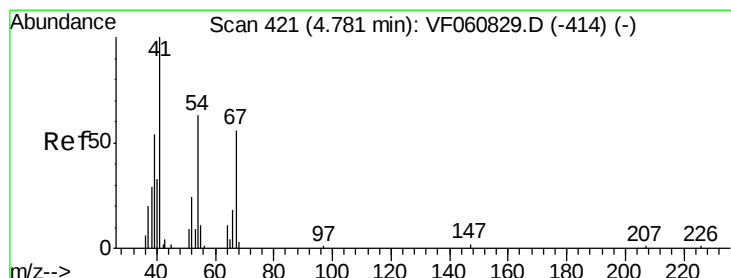
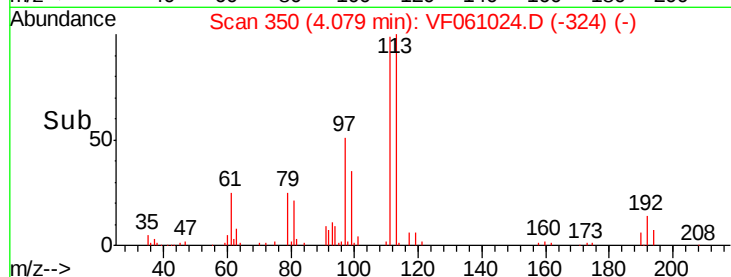
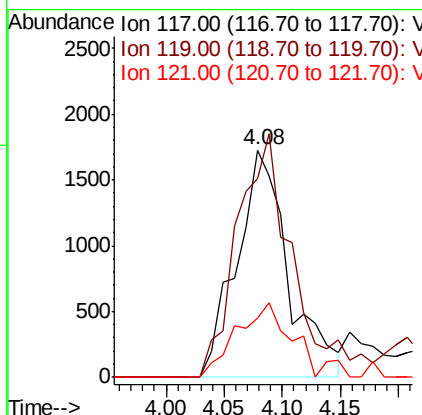
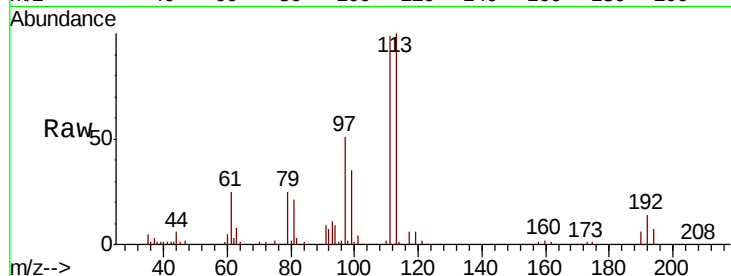
Delta R.T. 0.06 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

Instrument :
MSVOA_F
ClientSampled :

Tot	Ion:117	Resp:	5357
Ion	Ratio	Lower	Upper
117	100		
119	87.7	74.4	111.6
121	25.9	23.5	35.3



#41

Methacrylonitrile

Concen: Below Cal

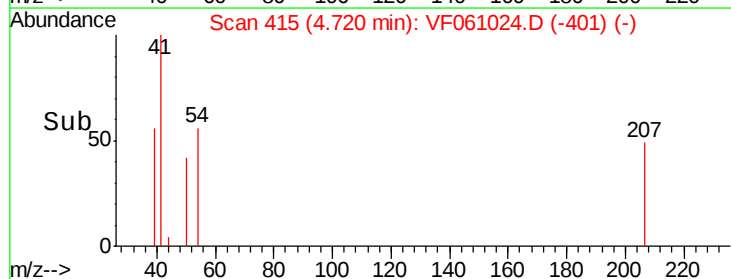
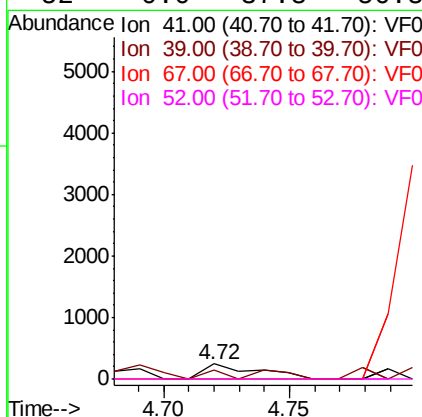
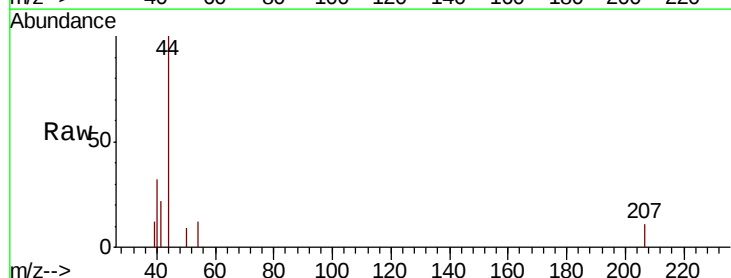
RT: 4.72 min Scan# 415

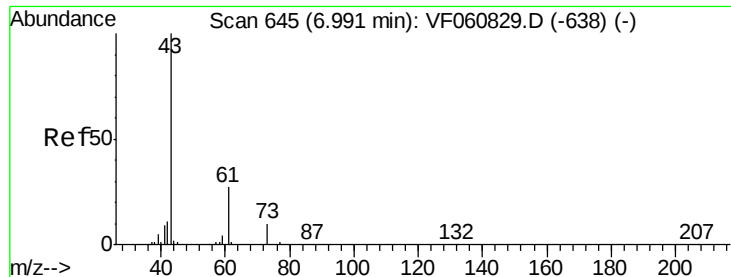
Delta R.T. -0.06 min

Lab File: VF061024.D

Acq: 14 Dec 2018 17:10

Tgt Ion: 41	Resp: 378
Ion Ratio	Lower Upper
41 100	
39 56.0	53.0 79.6
67 0.0	43.8 65.6#
52 0.0	37.8 56.8#



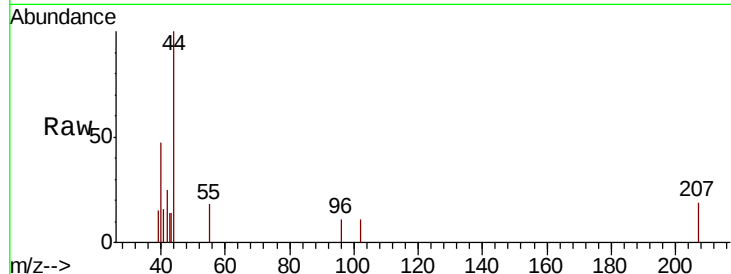


#43

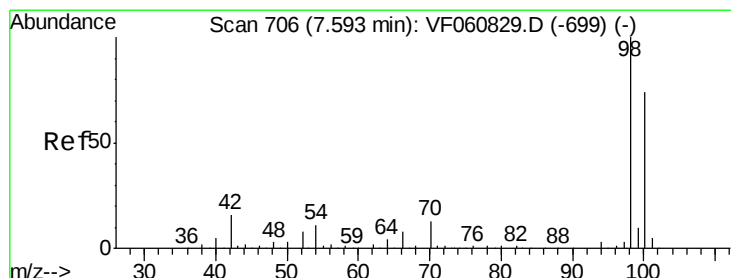
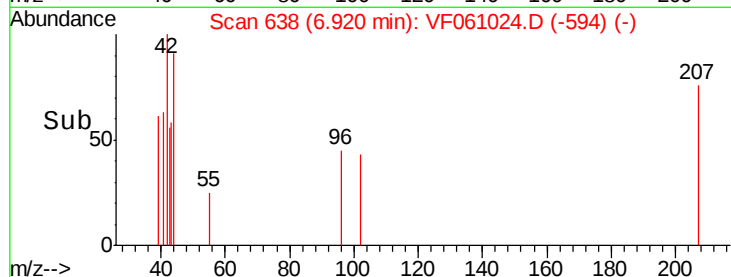
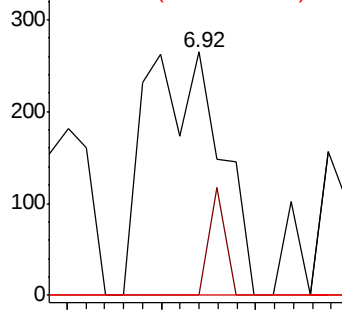
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.92 min Scan# 638
 Delta R.T. -0.07 min
 Lab File: VF061024.D
 Acq: 14 Dec 2018 17:10

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 726
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



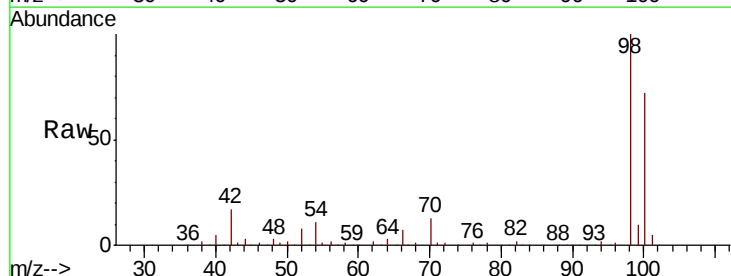
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



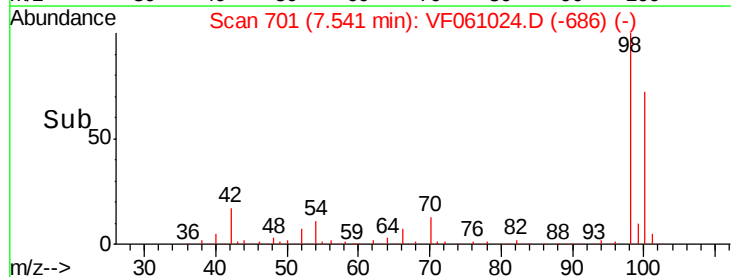
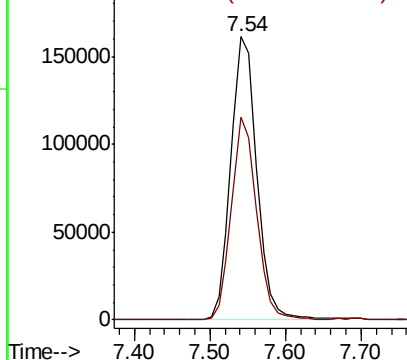
#50

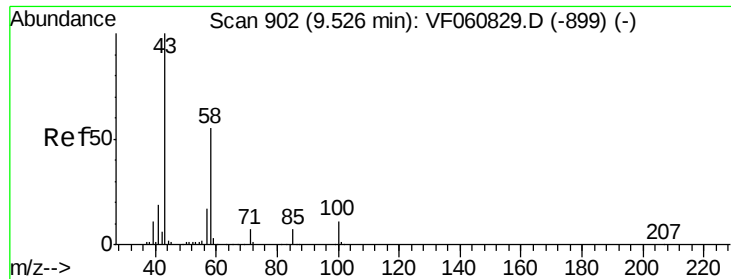
Toluene-d8
 Concen: 42.605 ug/l
 RT: 7.54 min Scan# 701
 Delta R.T. -0.05 min
 Lab File: VF061024.D
 Acq: 14 Dec 2018 17:10

Tgt Ion: 98 Resp: 383736
 Ion Ratio Lower Upper
 98 100
 100 71.8 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF0

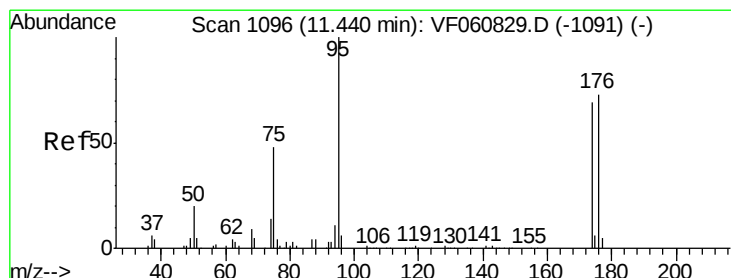
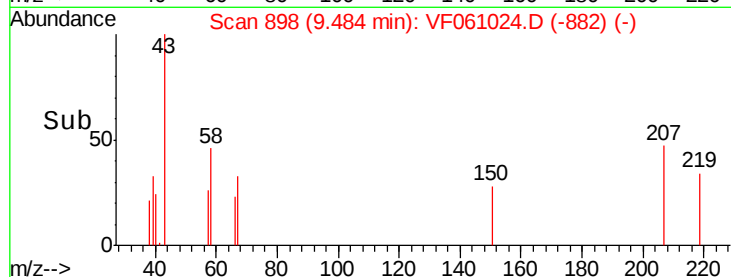
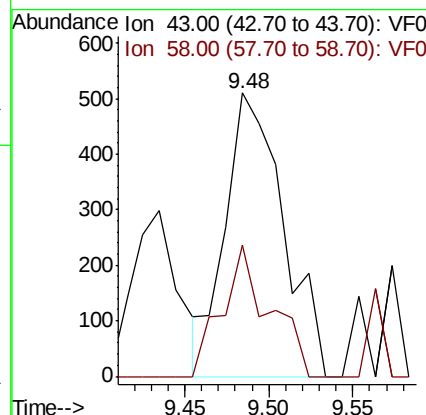
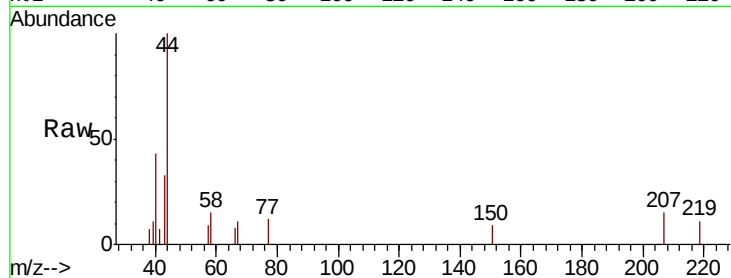




#59
2-Hexanone
Concen: 1.084 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.04 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

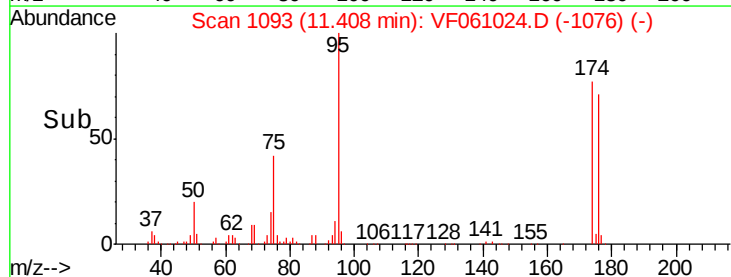
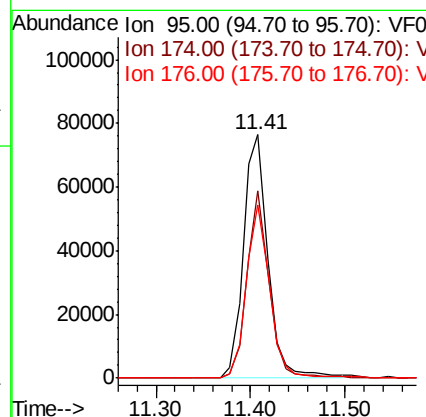
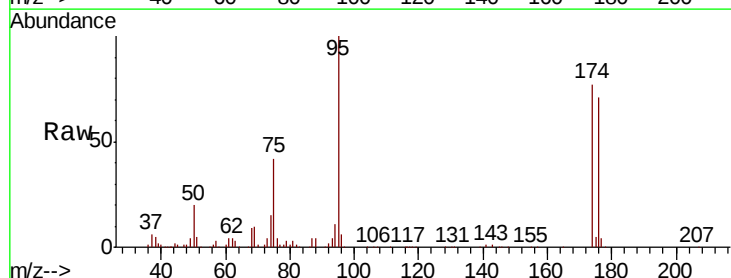
Instrument :
MSVOA_F
ClientSampled :

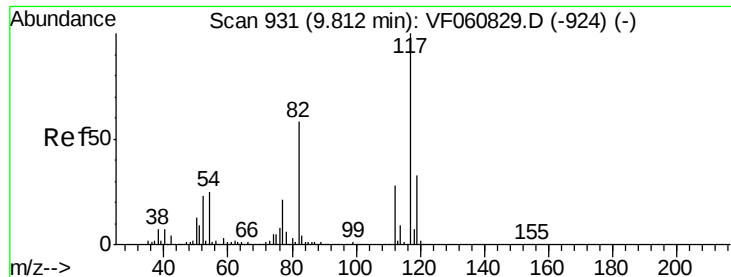
Tot Ion: 43 Resp: 1218
Ion Ratio Lower Upper
43 100
58 46.5 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 33.541 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

Tgt Ion: 95 Resp: 137300
Ion Ratio Lower Upper
95 100
174 76.9 0.0 138.2
176 71.1 0.0 146.2

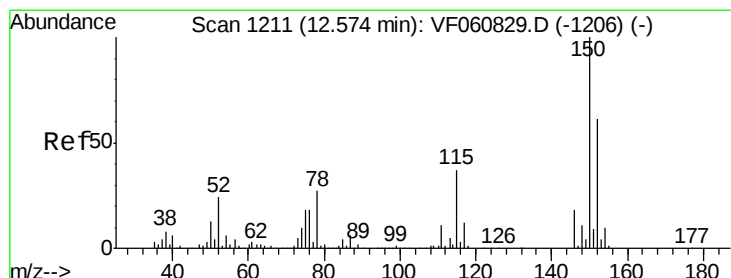
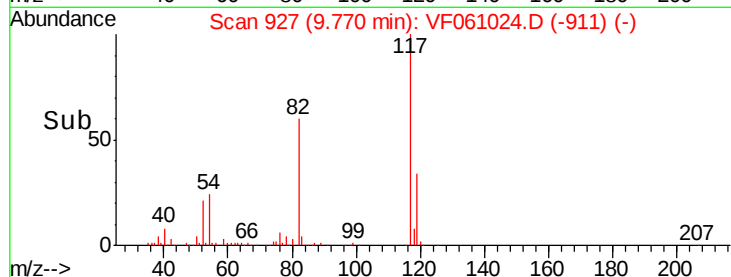
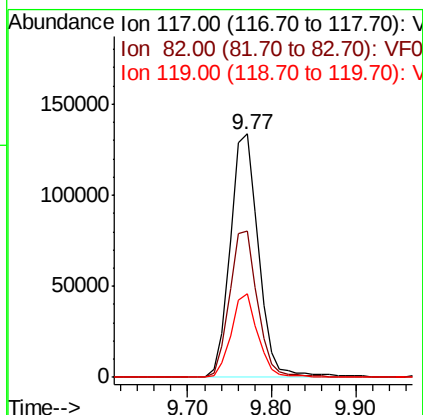
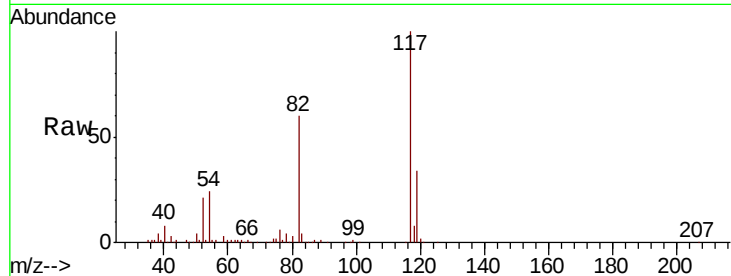




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

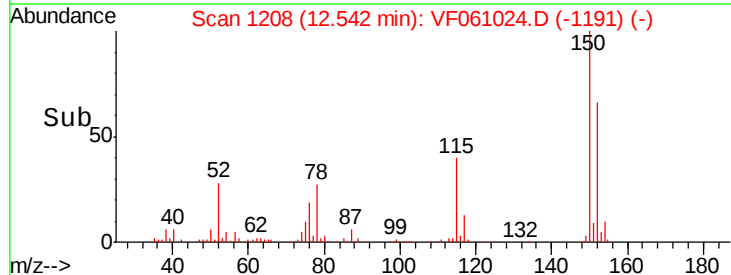
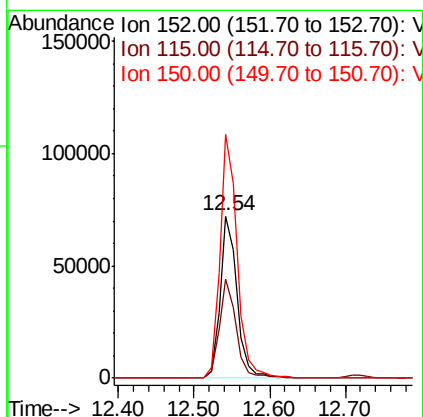
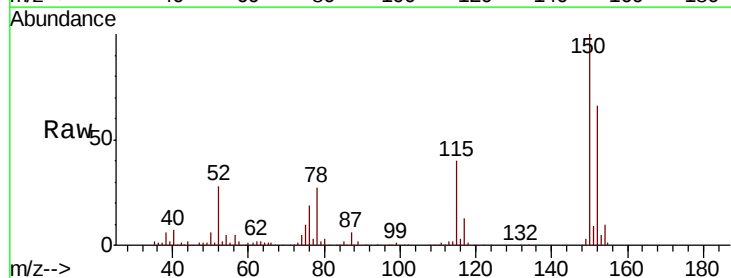
Instrument :
MSVOA_F
ClientSampleId :

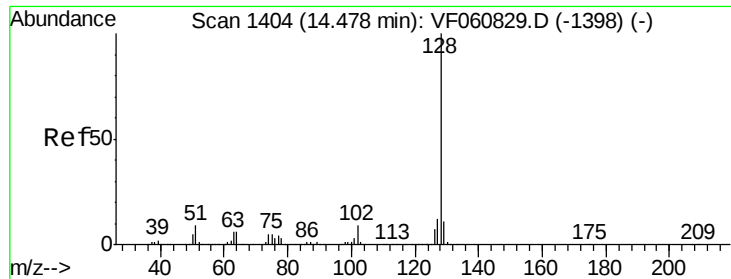
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.3	46.6	69.8
119	34.2	26.4	39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.8	30.1	90.5
150	150.6	0.0	327.6





#95
Naphthalene
Concen: 11.417 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF061024.D
Acq: 14 Dec 2018 17:10

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	9.9	14.9
129	12.2	9.1	13.7

