

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
 Data File : VF061526.D
 Acq On : 25 Jan 2019 17:47
 Operator : VA/AP
 Sample : K1238-41RE
 Misc : 7.36g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 28 00:09:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	199995	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	363425	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	340643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	170659	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	100027	40.51	ug/l	0.02
Spiked Amount	50.000		Recovery	=	81.02%	
35) Dibromofluoromethane	4.11	113	115350	40.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.44%	
50) Toluene-d8	7.55	98	278162	35.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.80%	
62) 4-Bromofluorobenzene	11.41	95	138110	37.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.24%	

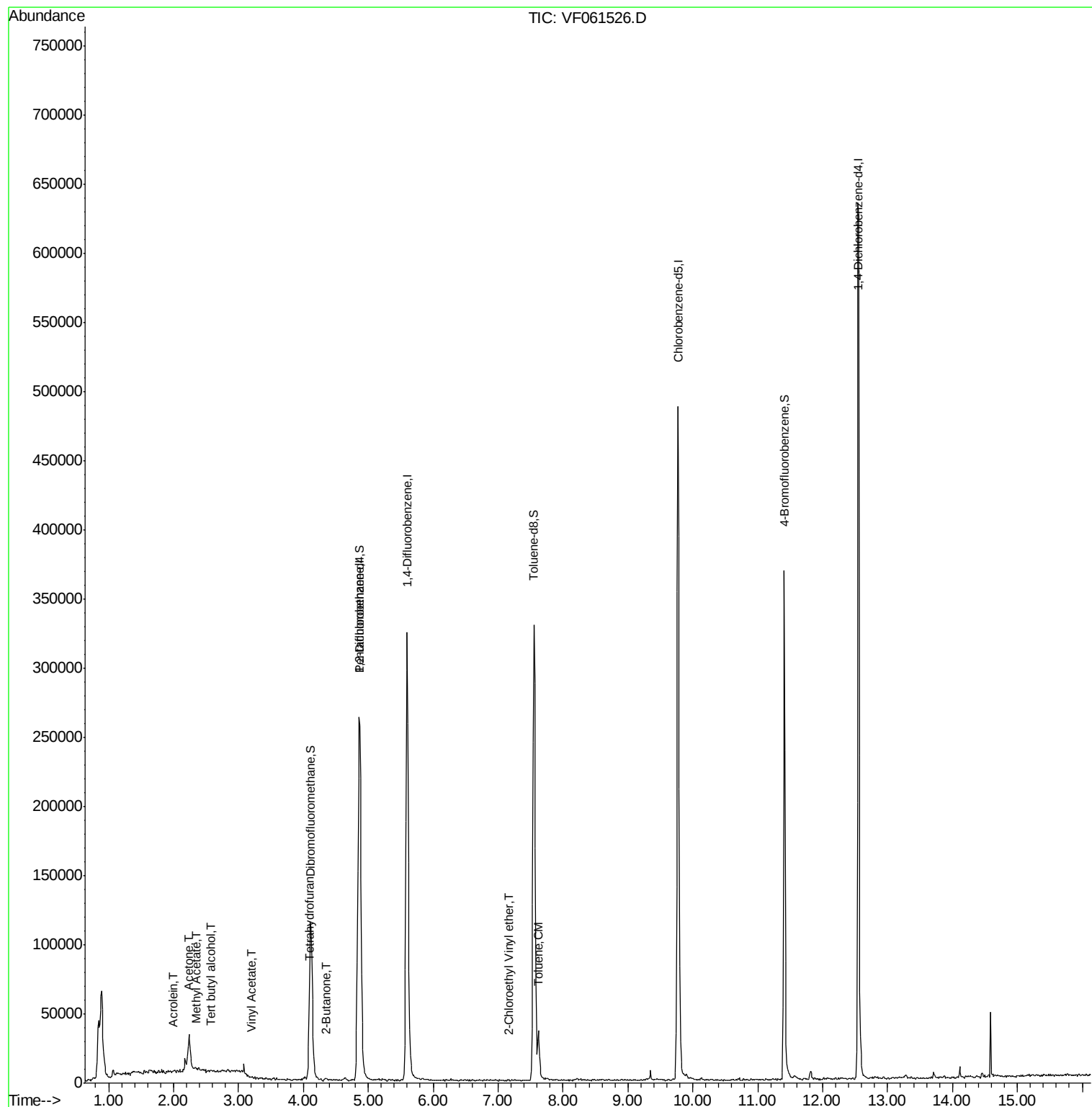
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	347	3.320	ug/l #	64
13) Acrolein	1.98	56	211	12.584	ug/l #	72
14) Allyl chloride	2.08	41	462	Below Cal	#	57
16) Acetone	2.24	43	32375	65.358	ug/l	97
18) Methyl Acetate	2.34	43	2591	2.638	ug/l #	79
23) Vinyl Acetate	3.20	43	375	3.327	ug/l #	1
25) 2-Butanone	4.34	43	1054	1.280	ug/l #	86
29) Tetrahydrofuran	4.08	42	585	1.649	ug/l #	54
49) 1,4-Dioxane	6.59	88	62	Below Cal	#	2
52) Toluene	7.63	92	16558	2.682	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.17	63	66	27.792	ug/l #	47

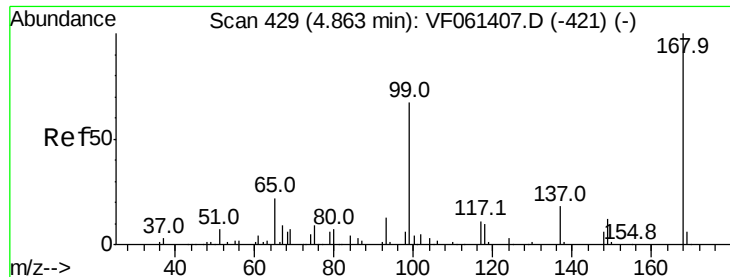
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

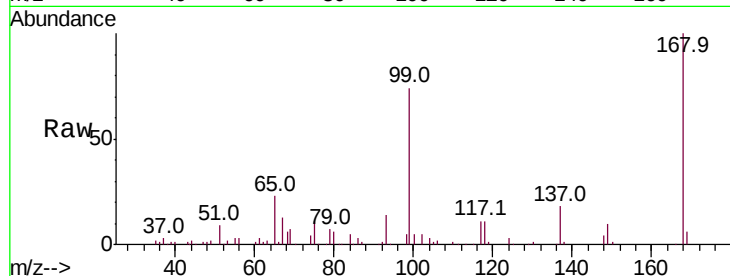
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 199995

Ion Ratio Lower Upper

168 100

99 74.3 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

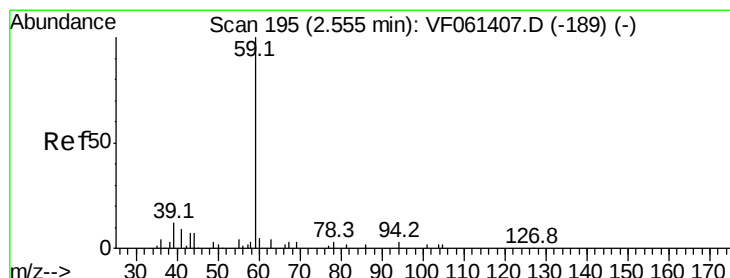
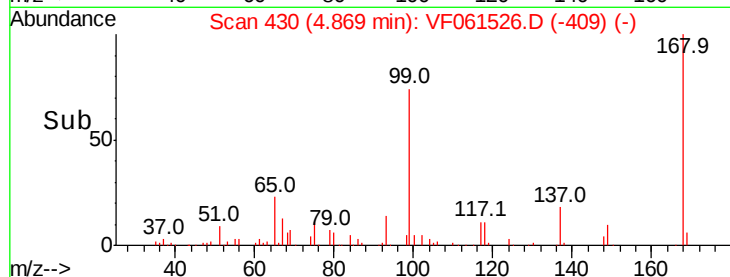
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 3.320 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061526.D

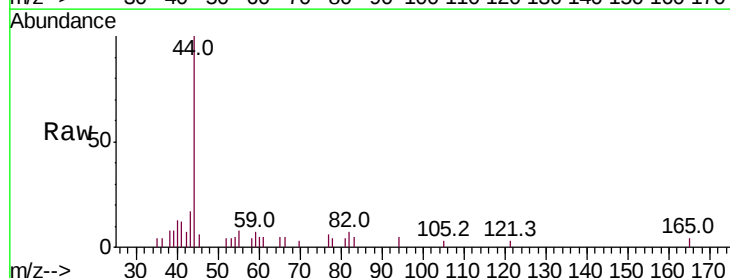
Acq: 25 Jan 2019 17:47

Tgt Ion: 59 Resp: 347

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

300

250

200

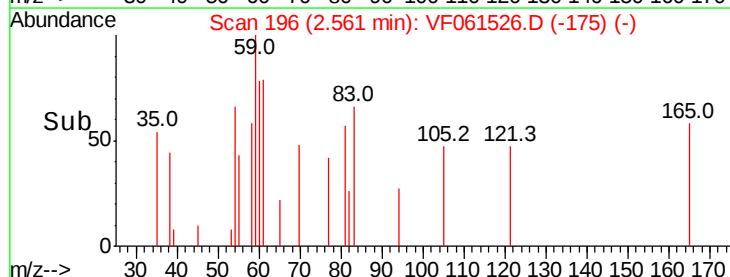
150

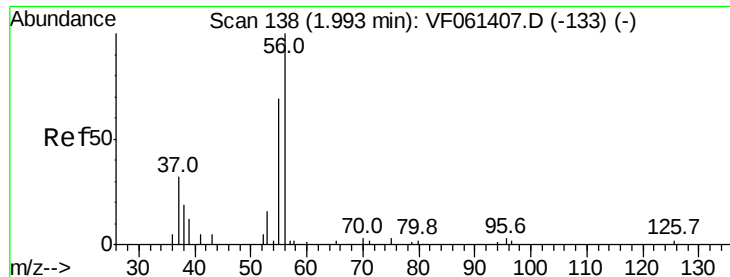
100

50

0

Time--> 2.52 2.54 2.56 2.58 2.60





#13

Acrolein

Concen: 12.584 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

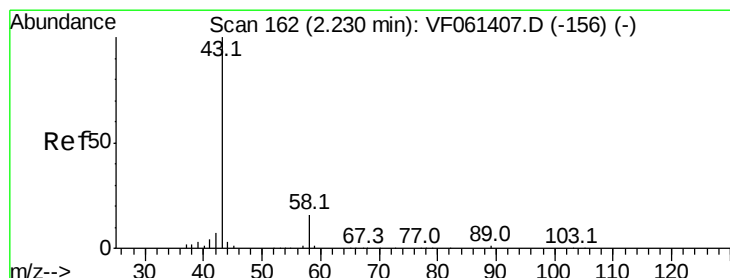
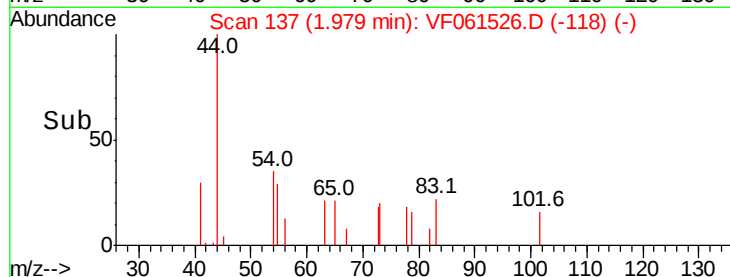
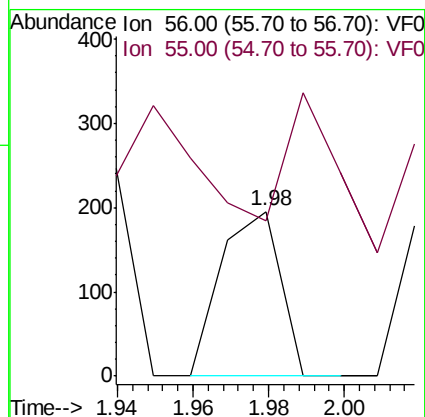
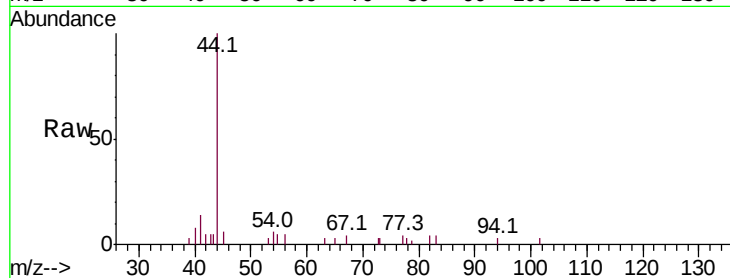
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 211

Ion Ratio Lower Upper

56 100

55 94.9 57.5 86.3#



#16

Acetone

Concen: 65.358 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061526.D

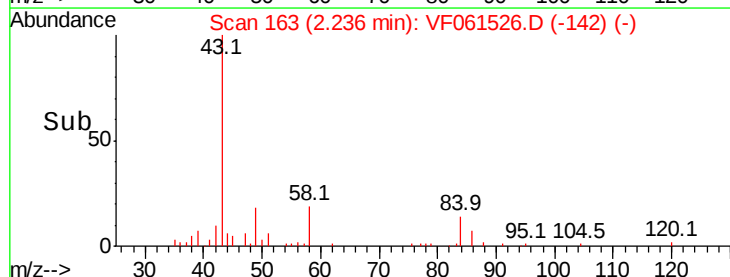
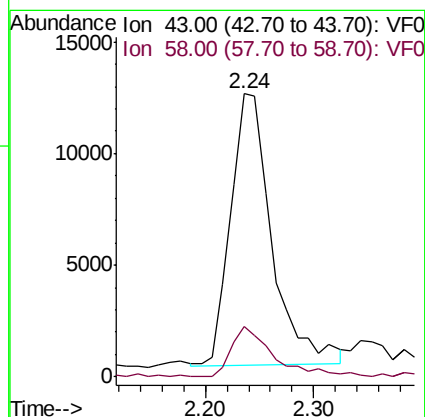
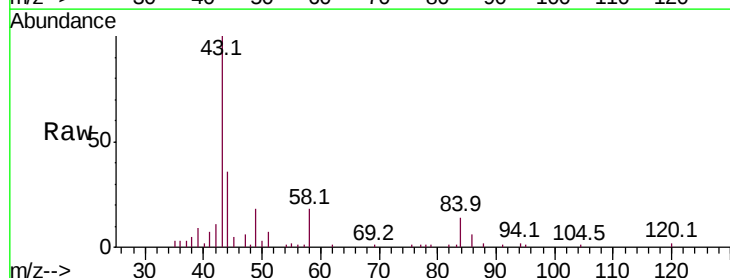
Acq: 25 Jan 2019 17:47

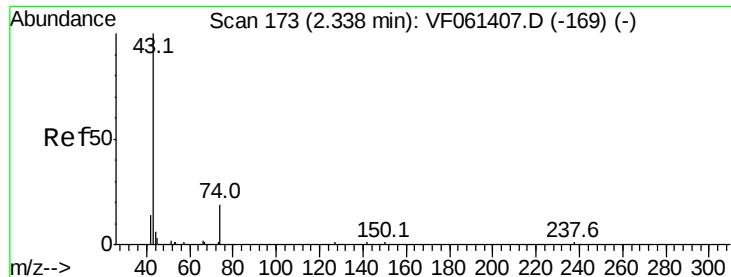
Tgt Ion: 43 Resp: 32375

Ion Ratio Lower Upper

43 100

58 17.9 13.3 19.9

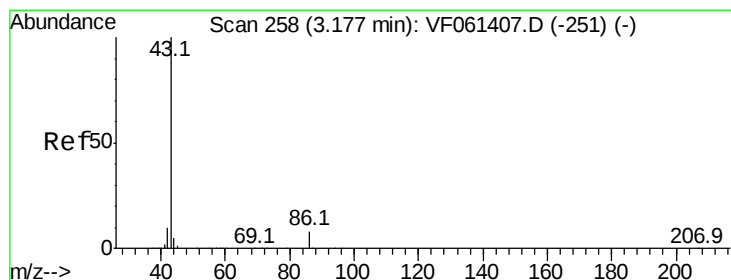
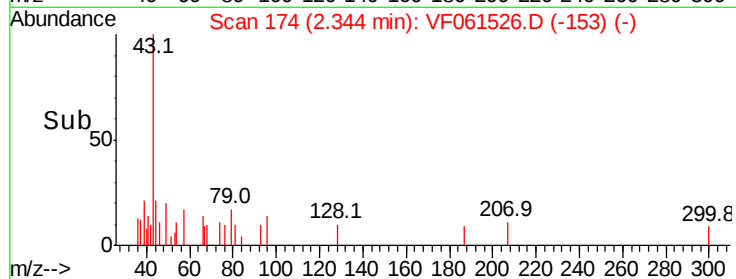
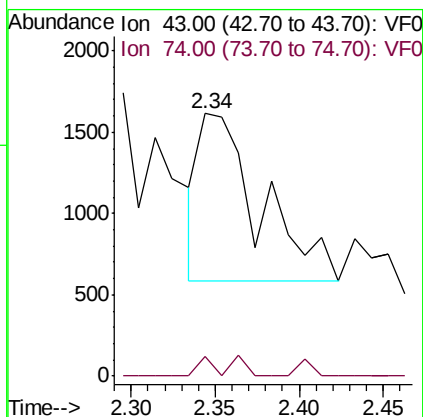
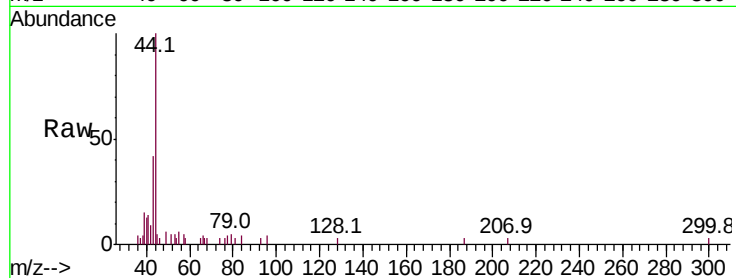




#18
Methvl Acetate
Concen: 2.638 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061526.D
Acq: 25 Jan 2019 17:47

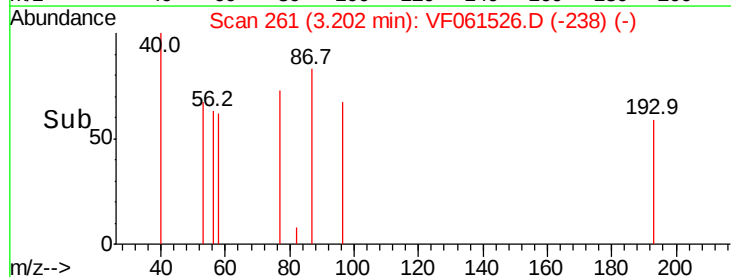
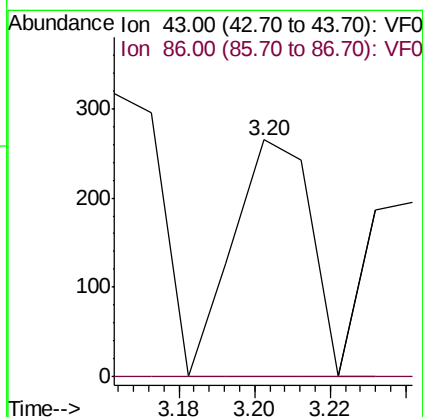
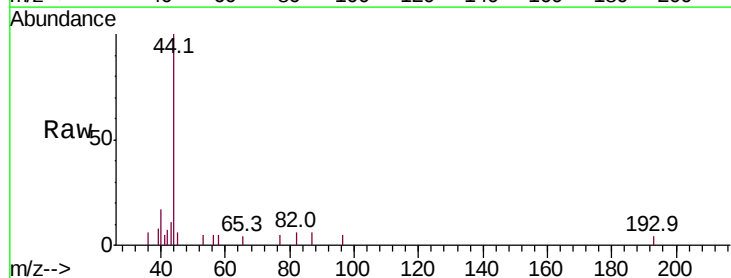
Instrument :
MSVOA_F
ClientSampleId :

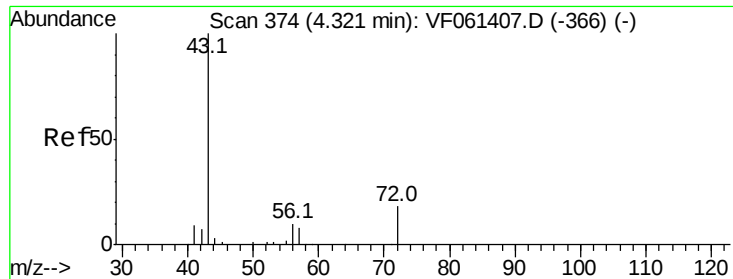
Tot Ion: 43 Resp: 2591
Ion Ratio Lower Upper
43 100
74 7.7 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.327 ug/l
RT: 3.20 min Scan# 261
Delta R.T. 0.03 min
Lab File: VF061526.D
Acq: 25 Jan 2019 17:47

Tgt Ion: 43 Resp: 375
Ion Ratio Lower Upper
43 100
86 54.7 6.2 9.4#





#25

2-Butanone

Concen: 1.280 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

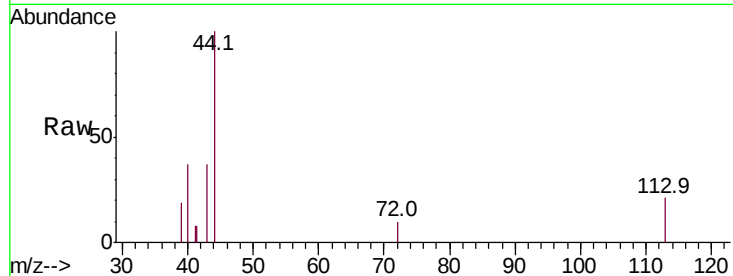
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1054

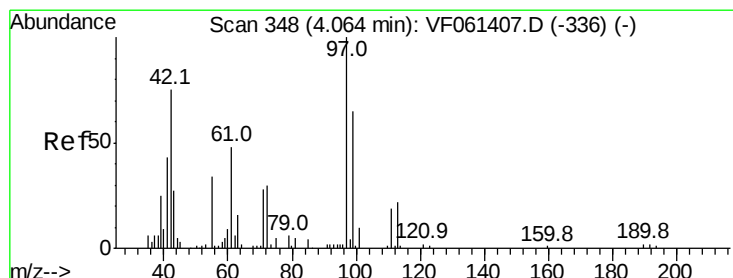
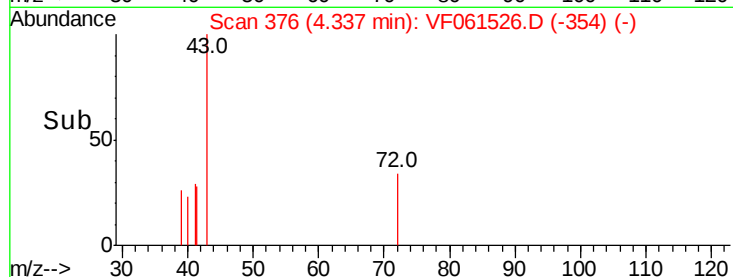
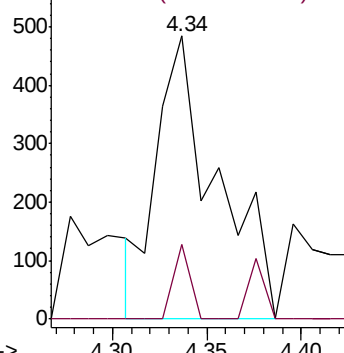
Ion Ratio Lower Upper

43 100

72 26.2 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 1.649 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

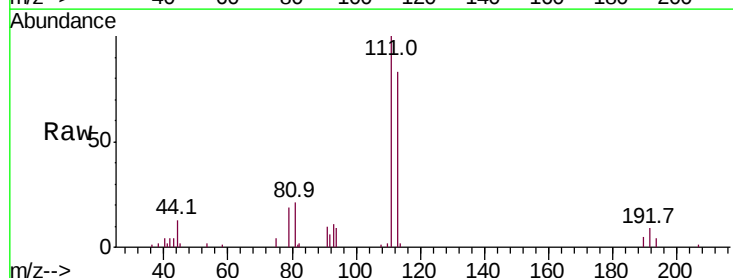
Tgt Ion: 42 Resp: 585

Ion Ratio Lower Upper

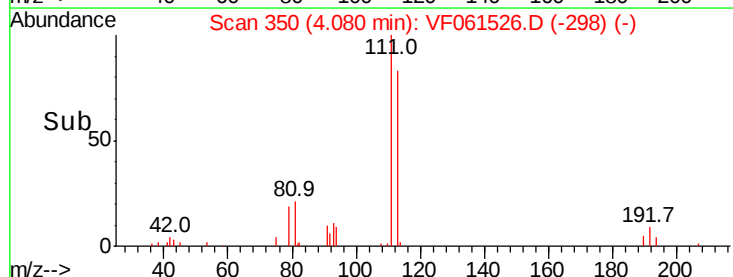
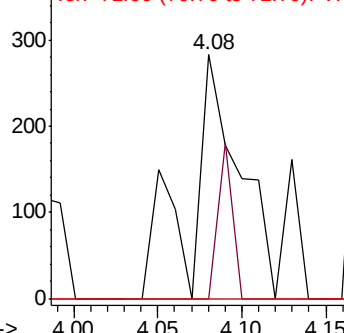
42 100

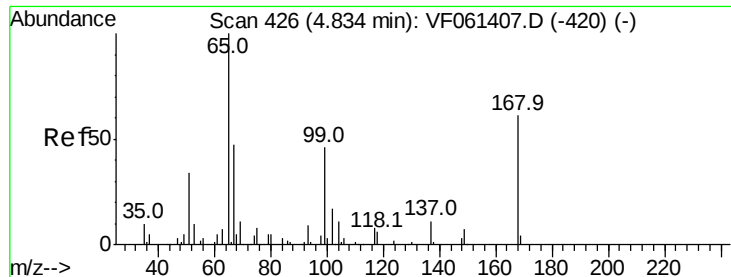
72 18.3 28.9 43.3#

71 0.0 29.6 44.4#



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

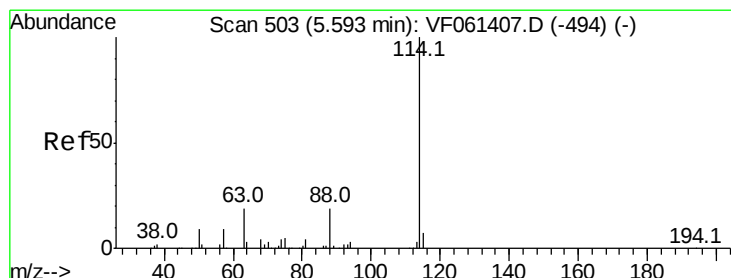
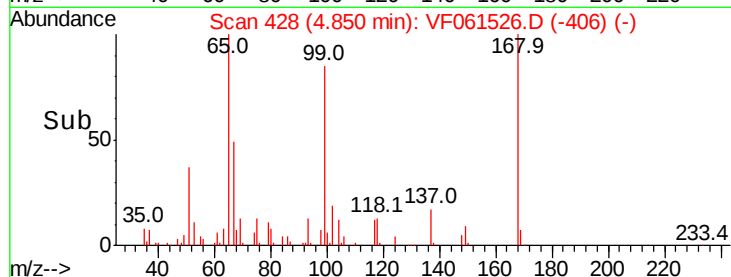
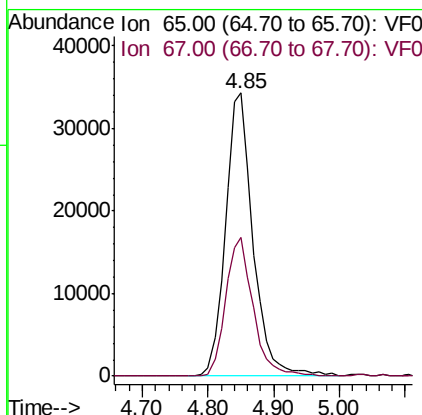
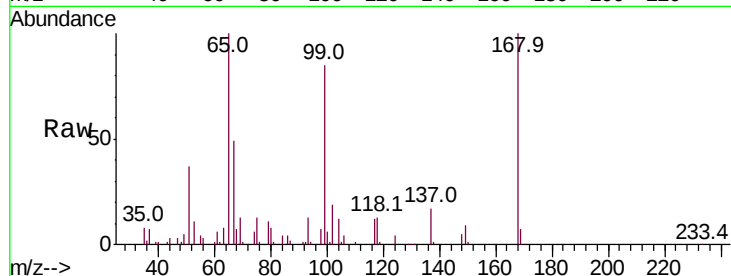




#33
 1,2-Dichloroethane-d4
 Concen: 40.510 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.02 min
 Lab File: VF061526.D
 Acq: 25 Jan 2019 17:47

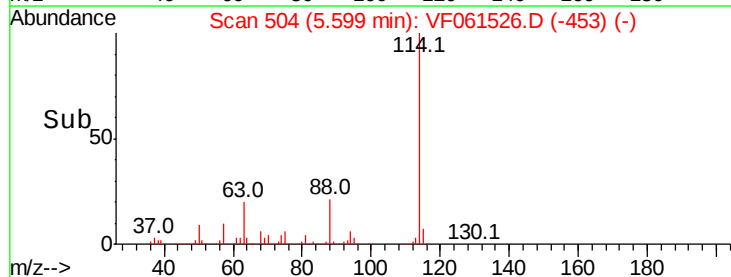
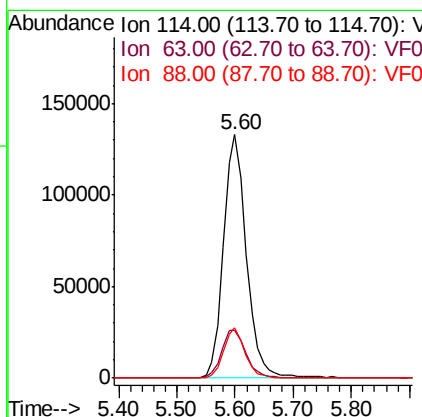
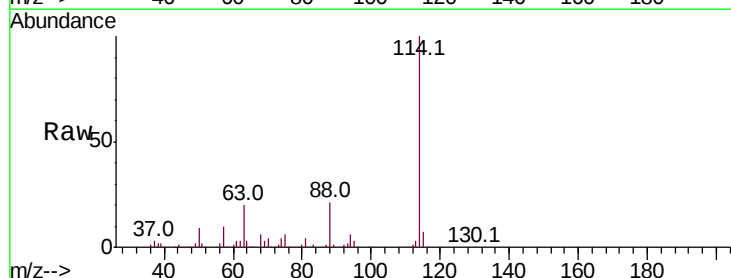
Instrument :
 MSVOA_F
 ClientSampleId :

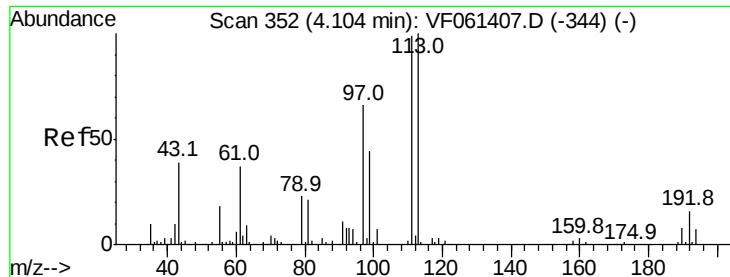
Tot Ion: 65 Resp: 100027
 Ion Ratio Lower Upper
 65 100
 67 49.2 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061526.D
 Acq: 25 Jan 2019 17:47

Tgt Ion: 114 Resp: 363425
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 20.8 0.0 37.4





#35

Dibromofluoromethane

Concen: 40.223 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

Instrument :
MSVOA_F
ClientSampleId :

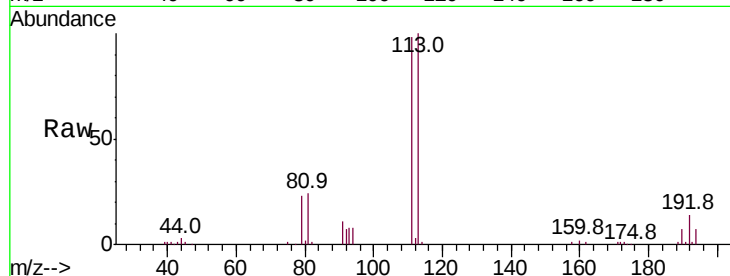
Tot Ion:113 Resp: 115350

Ion Ratio Lower Upper

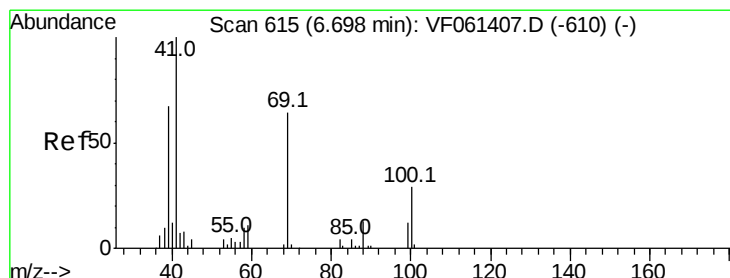
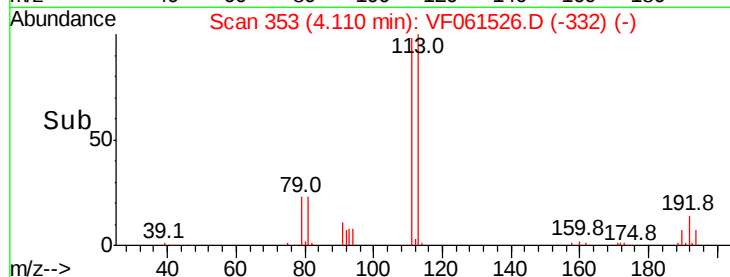
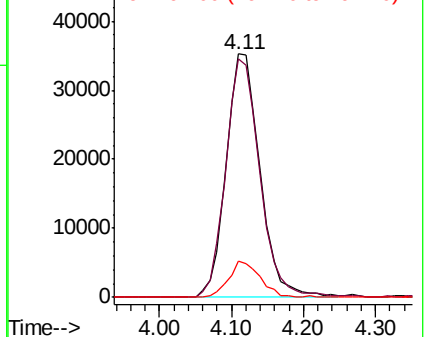
113 100

111 97.7 79.4 119.0

192 14.8 12.4 18.6



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.59 min Scan# 604

Delta R.T. -0.11 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

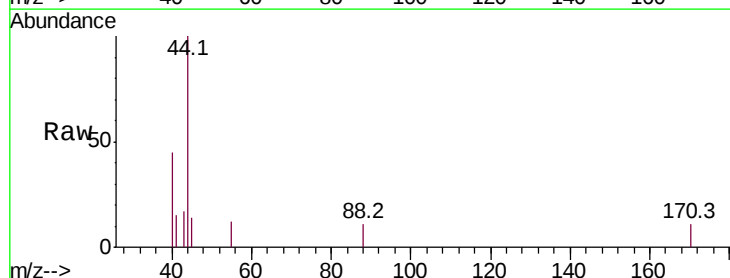
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

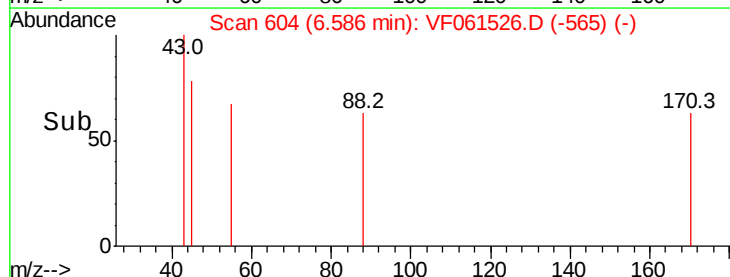
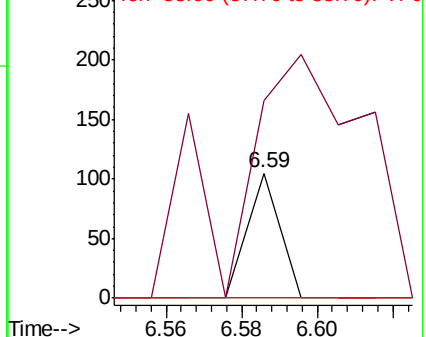
88 100

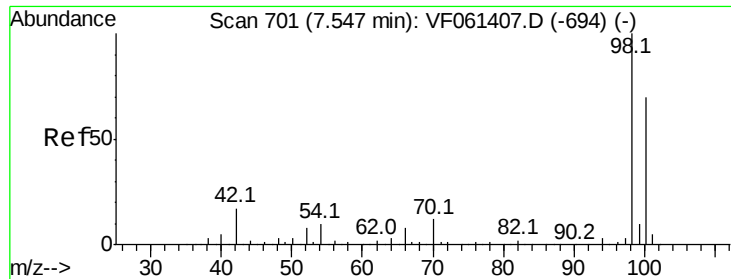
43 158.1 55.5 83.3#

58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

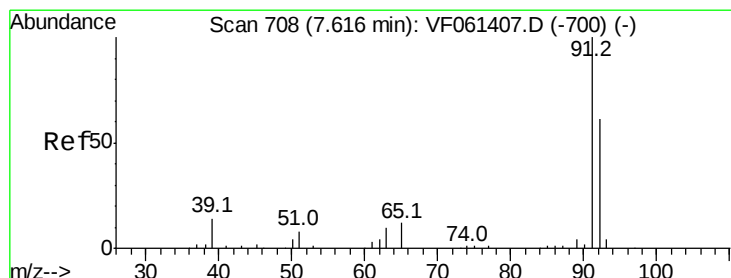
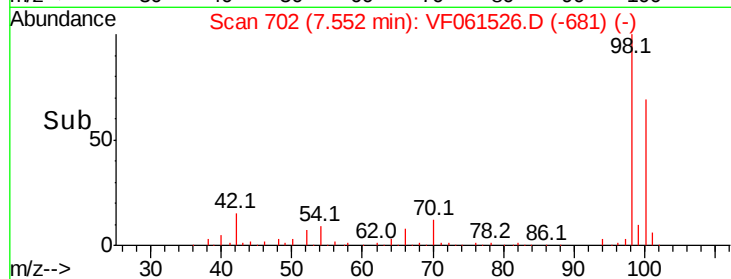
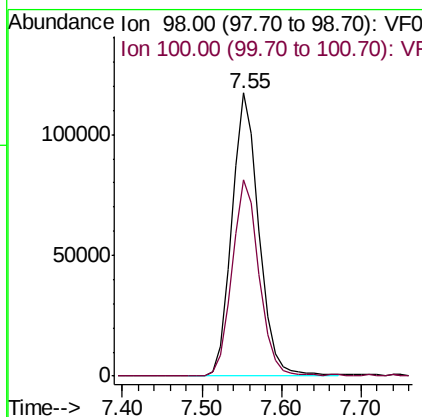
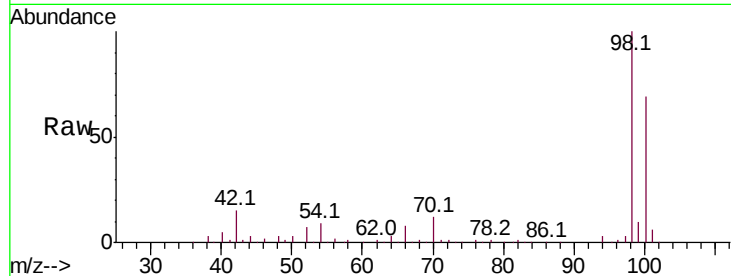




#50
Toluene-d8
Concen: 35.403 ug/l
RT: 7.55 min Scan# 702
Delta R.T. 0.01 min
Lab File: VF061526.D
Acq: 25 Jan 2019 17:47

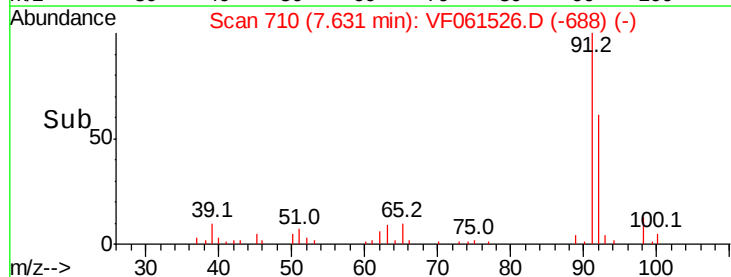
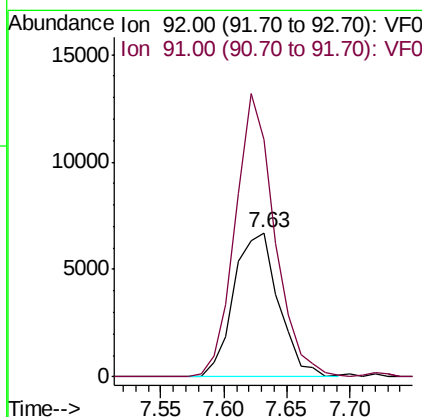
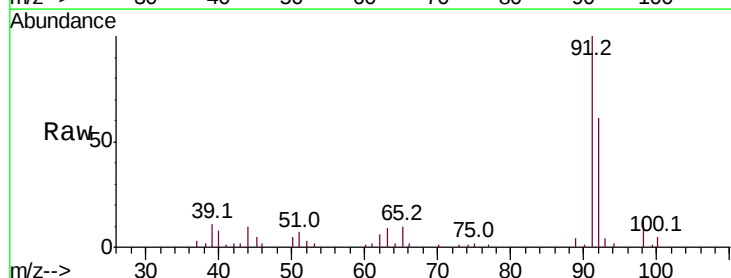
Instrument :
MSVOA_F
ClientSampleId :

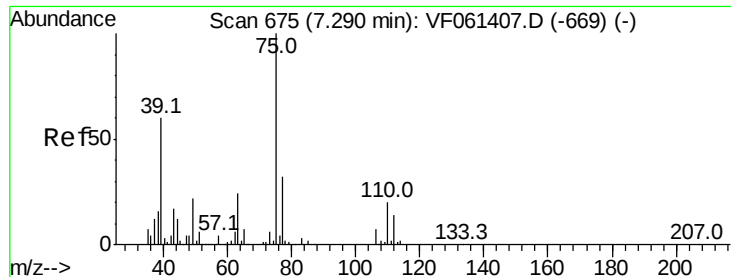
Tot Ion: 98 Resp: 278162
Ion Ratio Lower Upper
98 100
100 69.2 55.6 83.4



#52
Toluene
Concen: 2.682 ug/l
RT: 7.63 min Scan# 710
Delta R.T. 0.02 min
Lab File: VF061526.D
Acq: 25 Jan 2019 17:47

Tgt Ion: 92 Resp: 16558
Ion Ratio Lower Upper
92 100
91 165.2 131.2 196.8





#58

2-Chloroethyl Vinyl ether

Concen: 27.792 ug/l

RT: 7.17 min Scan# 663

Delta R.T. -0.12 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

Instrument :

MSVOA_F

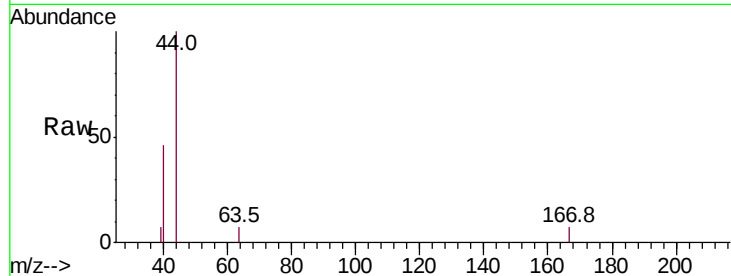
ClientSampleId :

Tot Ion: 63 Resp: 66

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.17

120

100

80

60

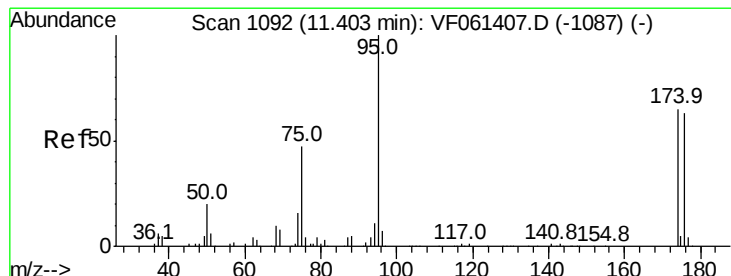
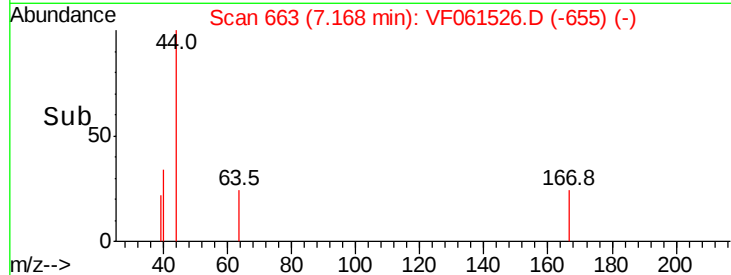
40

20

0

7.14 7.16 7.18 7.20

Time-->



#62

4-Bromofluorobenzene

Concen: 37.621 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061526.D

Acq: 25 Jan 2019 17:47

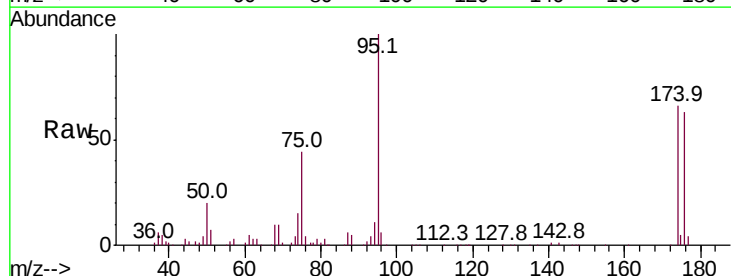
Tgt Ion: 95 Resp: 138110

Ion Ratio Lower Upper

95 100

174 65.5 0.0 130.4

176 62.6 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

100000

80000

60000

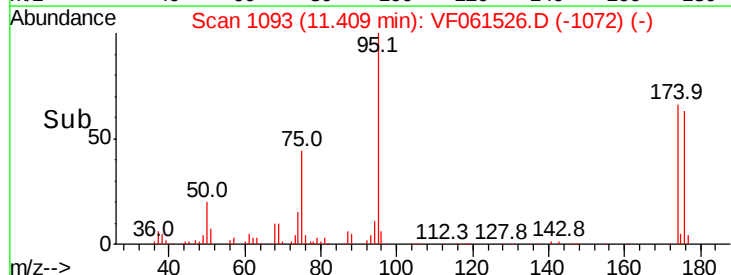
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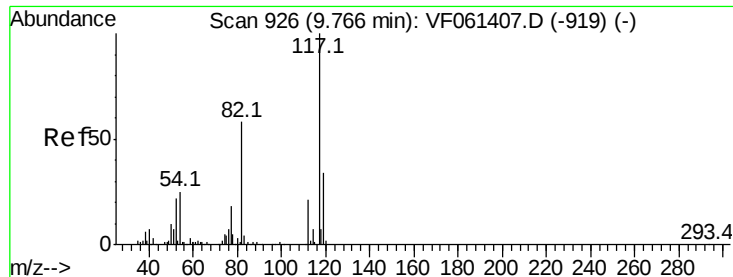
20000

0

11.30 11.40 11.50 11.60

Time-->

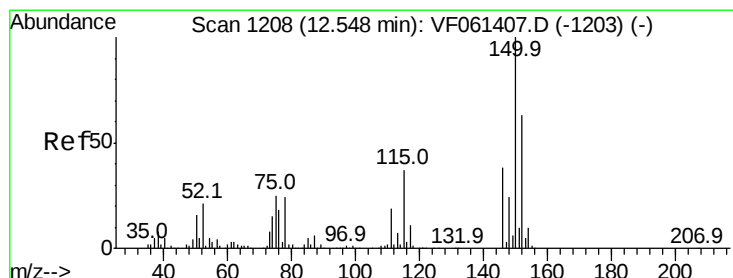
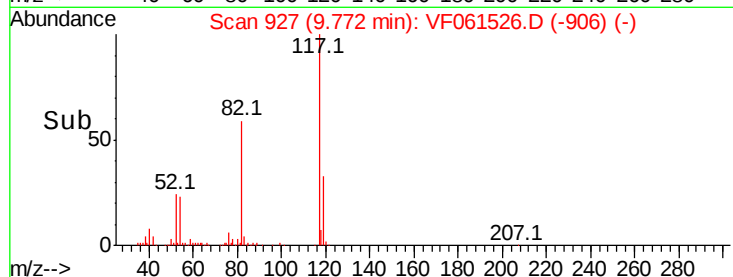
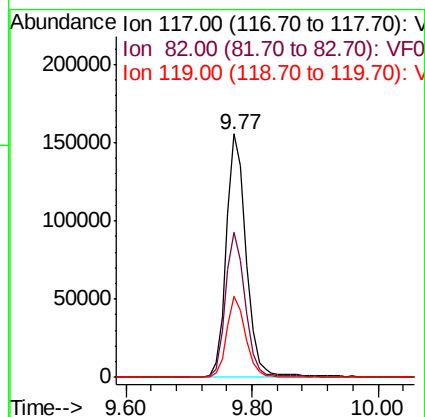
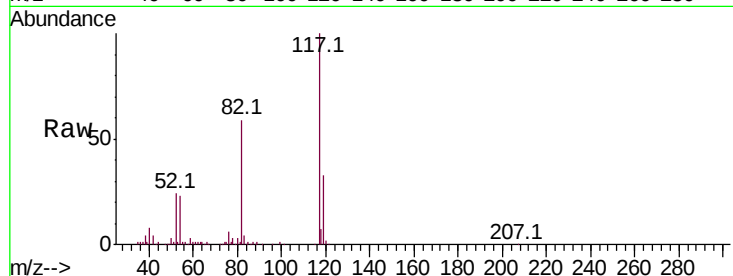




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061526.D
Acq: 25 Jan 2019 17:47

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.3	46.4	69.6
119	33.0	27.2	40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061526.D
Acq: 25 Jan 2019 17:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.0	90.0
150	155.1	0.0	321.4

