

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102918\
 Data File : VX005659.D
 Acq On : 29 Oct 2018 14:44
 Operator : JC/MD
 Sample : J5692-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ458I-20181025

Quant Time: Oct 30 01:59:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	229006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	287166	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138992	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	145064	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
35) Dibromofluoromethane	5.50	113	107840	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	
50) Toluene-d8	8.71	98	382795	44.27	ug/l	0.00
Spiked Amount			Recovery	=	88.54%	
62) 4-Bromofluorobenzene	11.14	95	127553	39.06	ug/l	0.00
Spiked Amount			Recovery	=	78.12%	

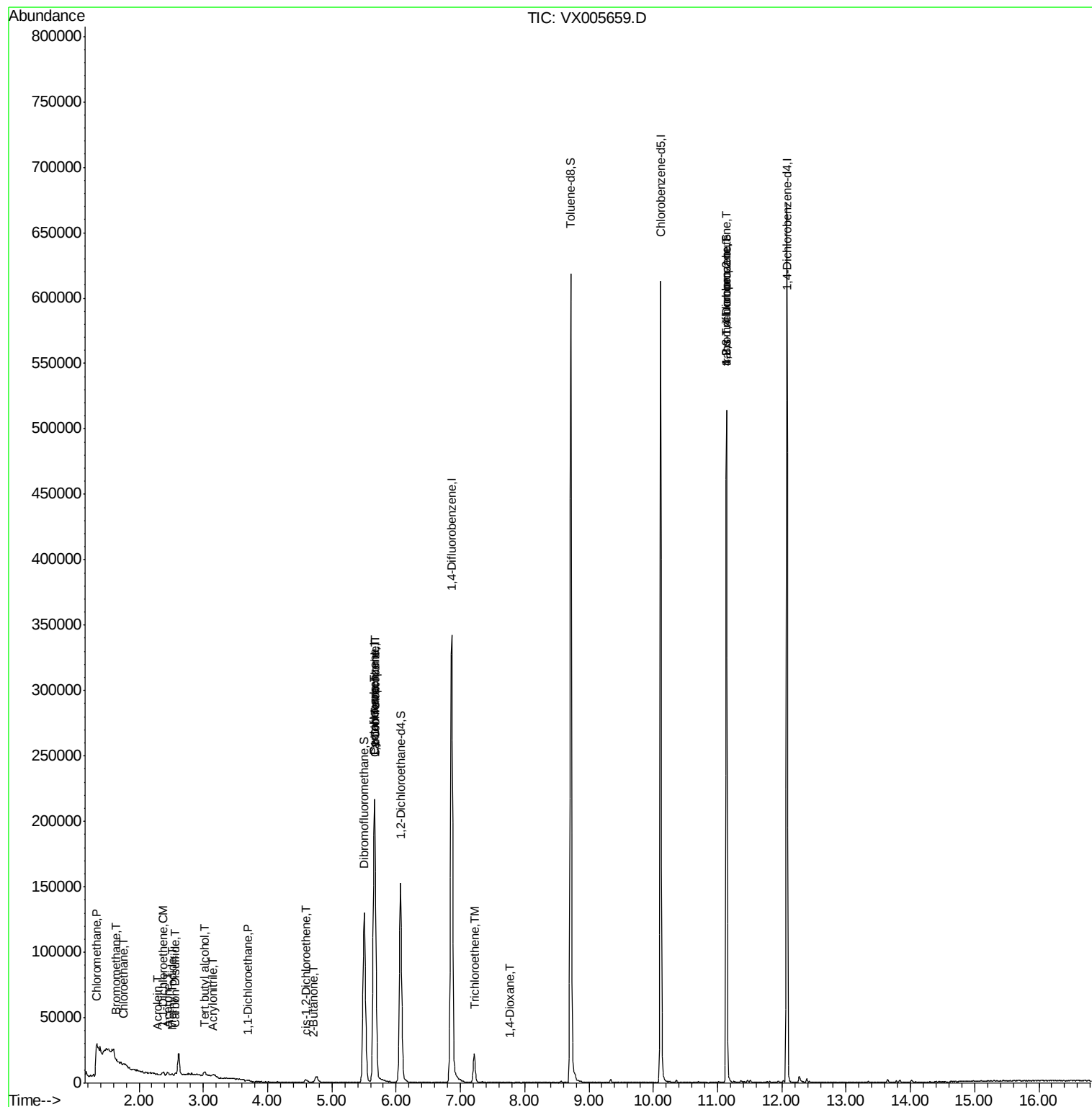
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1682	0.584	ug/l #	85
5) Bromomethane	1.64	94	501	0.284	ug/l	86
6) Chloroethane	1.76	64	2320	1.283	ug/l #	49
10) Methyl Iodide	2.51	142	639	2.982	ug/l #	94
11) Tert butyl alcohol	3.03	59	2238	2.975	ug/l #	72
12) 1,1-Dichloroethene	2.38	96	740	0.344	ug/l	95
13) Acrolein	2.29	56	154	0.401	ug/l #	40
15) Acrylonitrile	3.15	53	460	0.273	ug/l #	16
16) Acetone	2.44	43	1875	1.269	ug/l	99
17) Carbon Disulfide	2.57	76	3026	0.462	ug/l	97
18) Methyl Acetate	2.78	43	397	Below Cal	#	68
24) 1,1-Dichloroethane	3.70	63	1038	0.228	ug/l #	84
25) 2-Butanone	4.70	43	516	0.229	ug/l #	51
27) cis-1,2-Dichloroethene	4.60	96	1071	0.423	ug/l	66
31) Cyclohexane	5.66	56	4371	1.160	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15258	4.424	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20108	5.535	ug/l #	16
44) Trichloroethene	7.21	130	8661	3.215	ug/l	99
49) 1,4-Dioxane	7.77	88	23	0.328	ug/l #	4
76) 1,2,3-Trichloropropane	11.14	75	63676	21.622	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	63676	70.652	ug/l #	9

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

MSVOA_X

ClientSampleId :

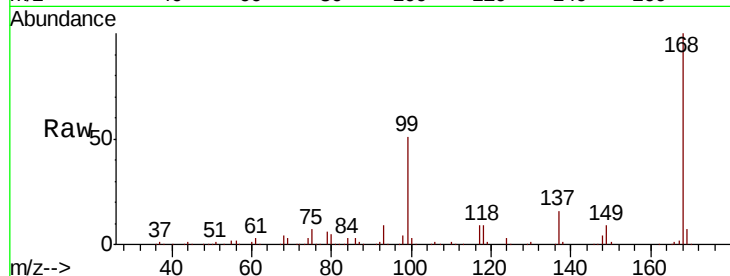
FT-PZ458I-20181025

Tot Ion:168 Resp: 229006

Ion Ratio Lower Upper

168 100

99 51.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

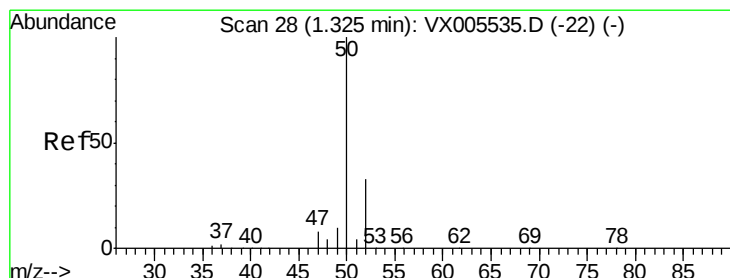
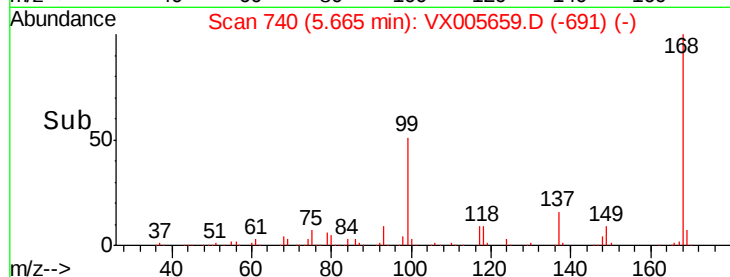
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.584 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005659.D

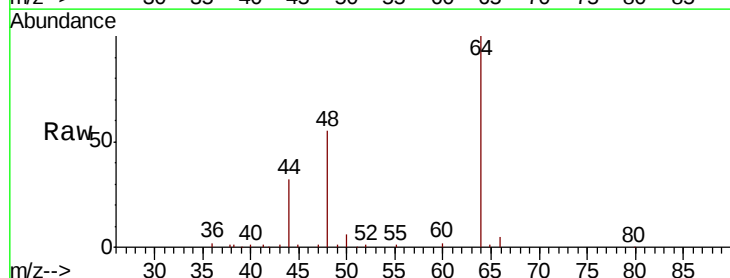
Acq: 29 Oct 2018 14:44

Tgt Ion: 50 Resp: 1682

Ion Ratio Lower Upper

50 100

52 24.1 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

600

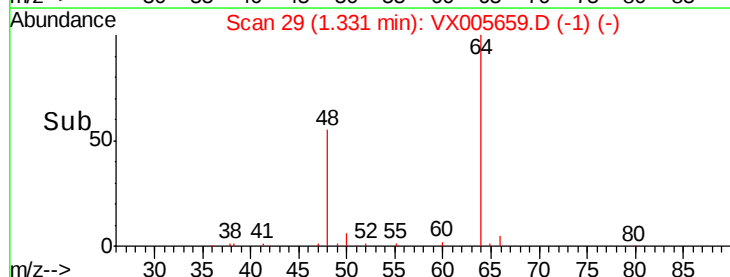
400

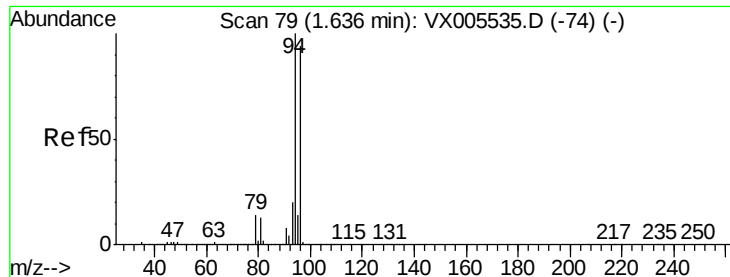
200

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.284 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

MSVOA_X

ClientSampleId :

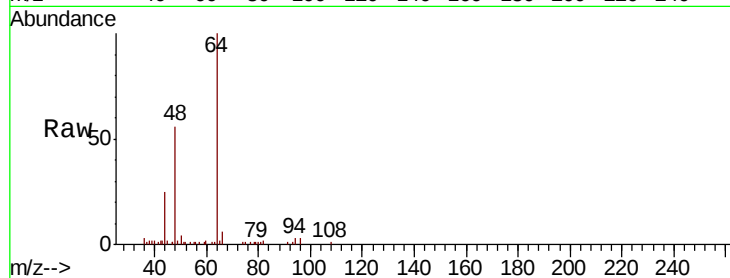
FT-PZ458I-20181025

Tot Ion: 94 Resp: 501

Ion Ratio Lower Upper

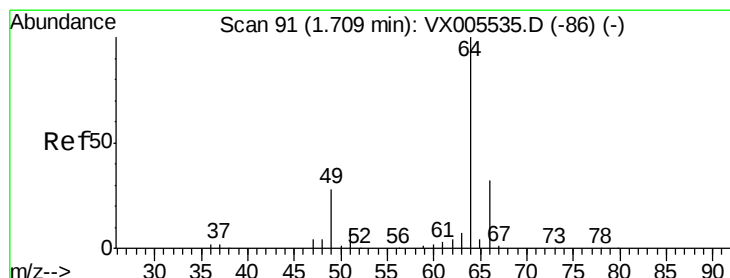
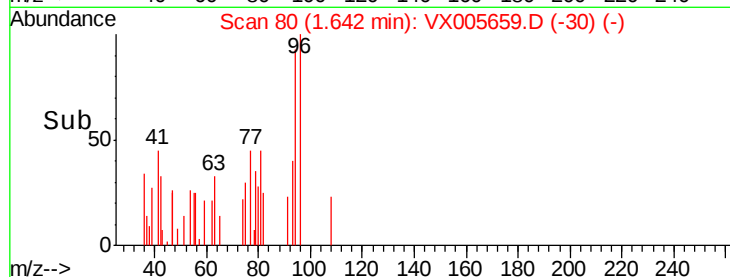
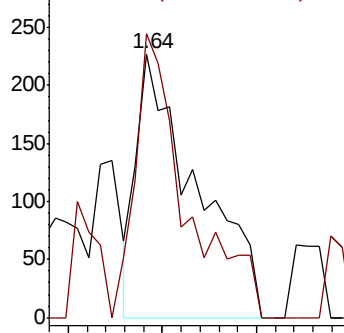
94 100

96 107.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.283 ug/l

RT: 1.76 min Scan# 99

Delta R.T. 0.05 min

Lab File: VX005659.D

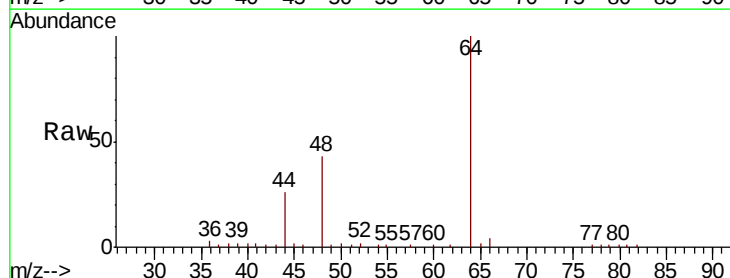
Acq: 29 Oct 2018 14:44

Tgt Ion: 64 Resp: 2320

Ion Ratio Lower Upper

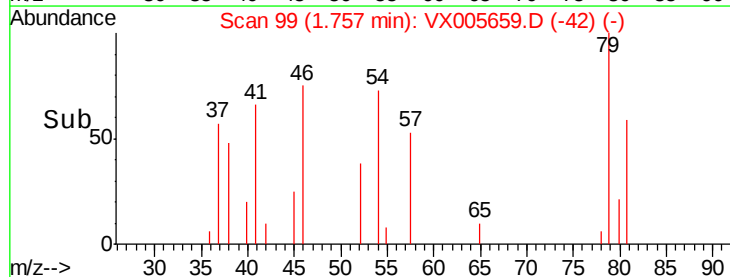
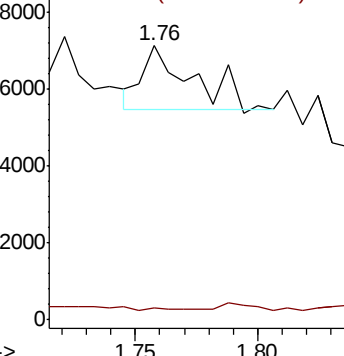
64 100

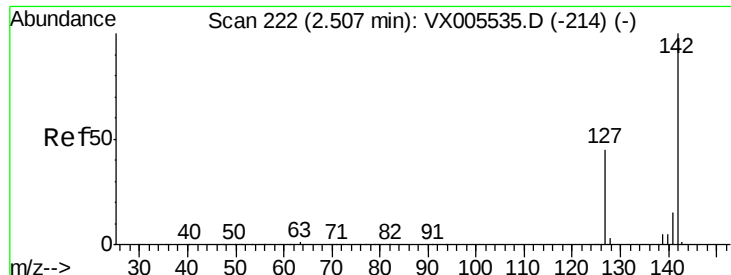
66 3.4 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

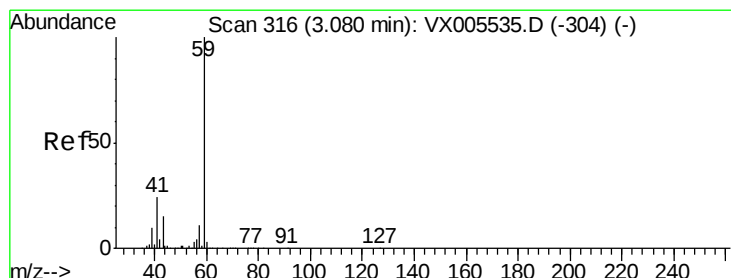
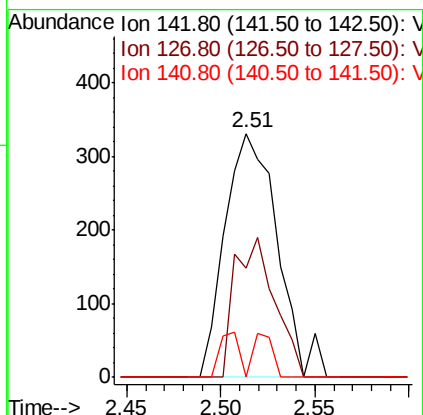
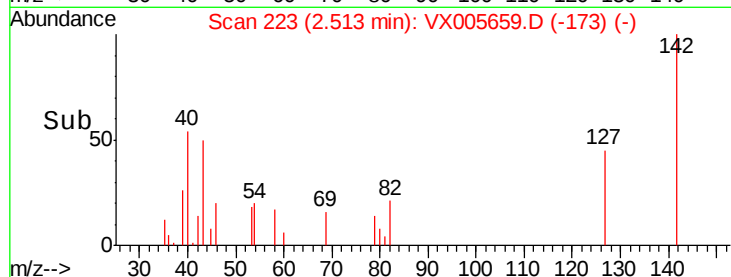
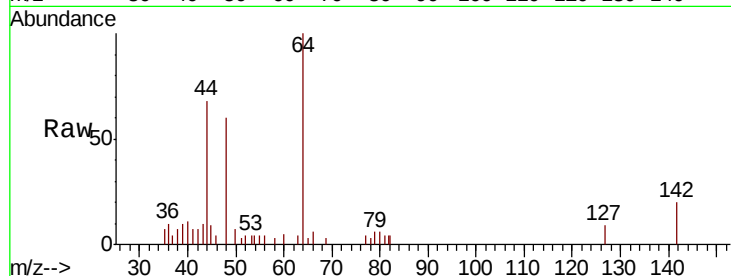




#10
Methvl Iodide
Concen: 2.982 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

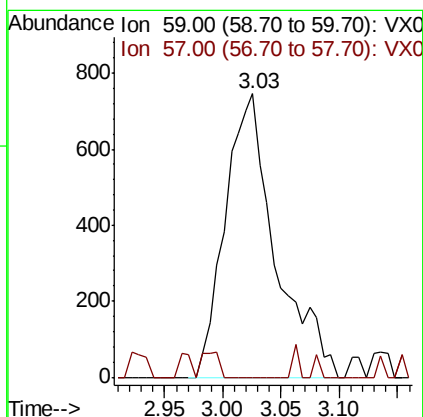
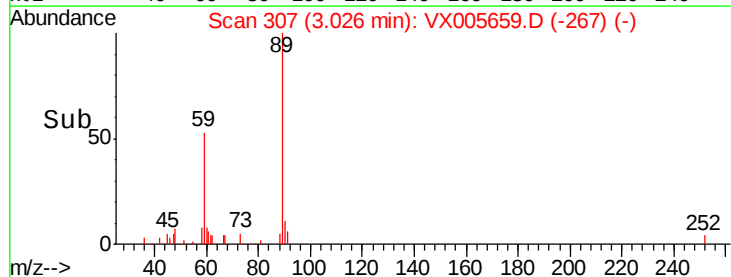
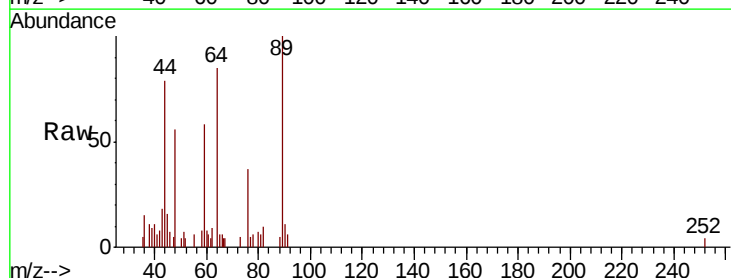
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ458I-20181025

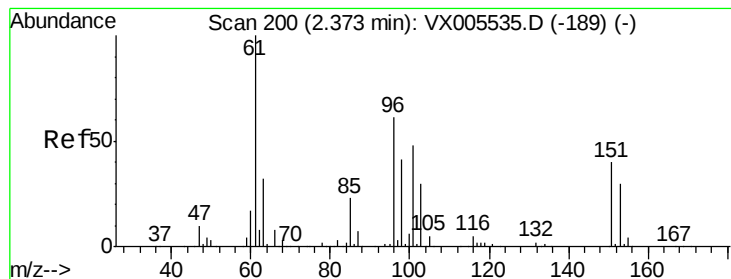
Tot Ion:142 Resp: 639
Ion Ratio Lower Upper
142 100
127 43.7 36.0 54.0
141 6.6 11.7 17.5#



#11
Tert butyl alcohol
Concen: 2.975 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

Tgt Ion: 59 Resp: 2238
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.344 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ458I-20181025

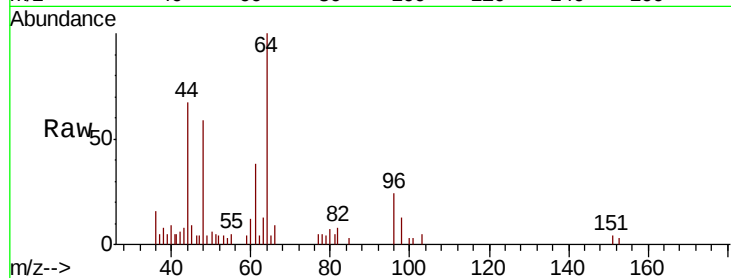
Tot Ion: 96 Resp: 740

Ion Ratio Lower Upper

96 100

61 161.8 131.8 197.8

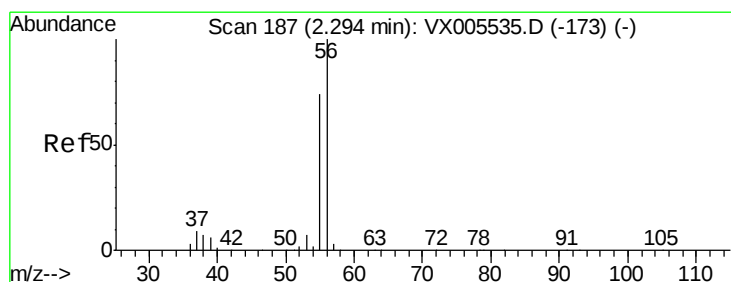
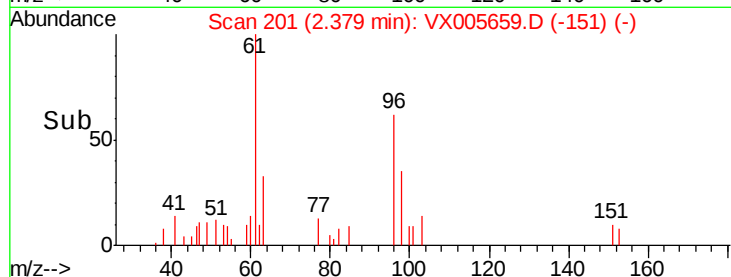
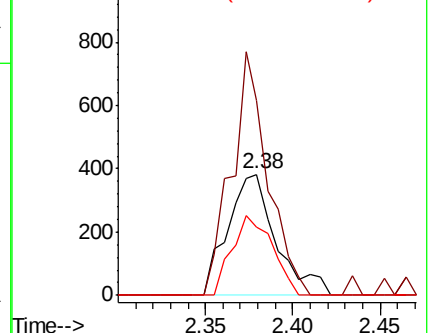
98 56.8 53.4 80.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.401 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005659.D

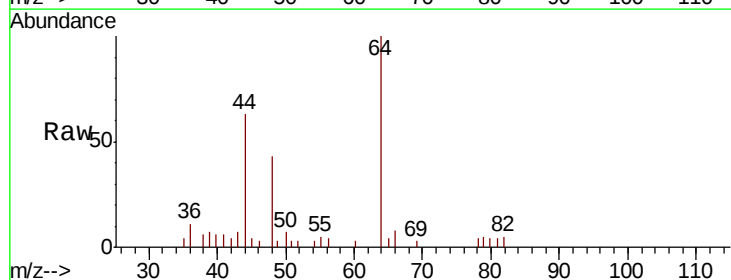
Acq: 29 Oct 2018 14:44

Tgt Ion: 56 Resp: 154

Ion Ratio Lower Upper

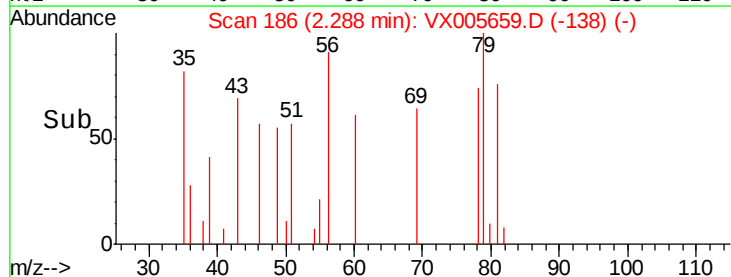
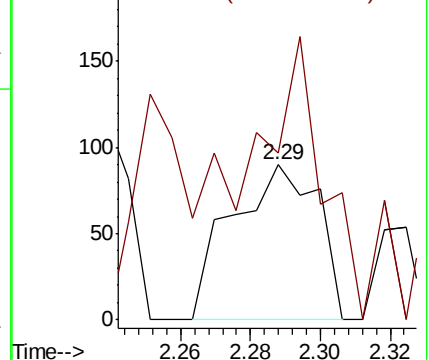
56 100

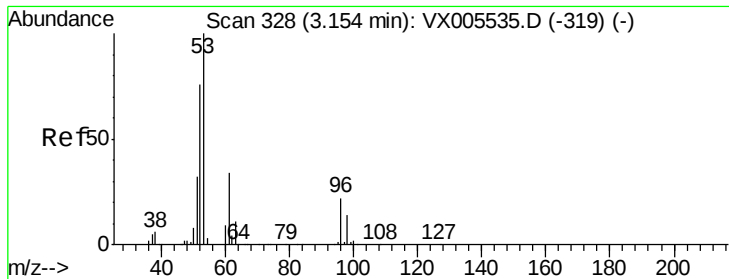
55 121.4 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.273 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

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ClientSampleId :

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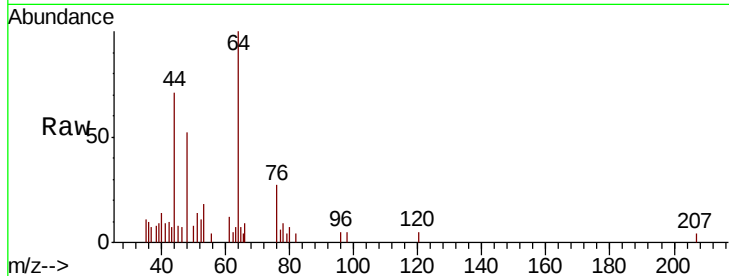
Tot Ion: 53 Resp: 460

Ion Ratio Lower Upper

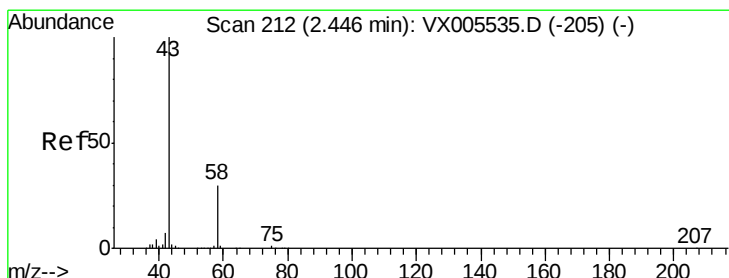
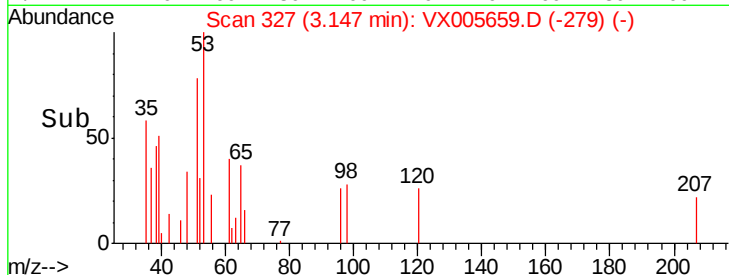
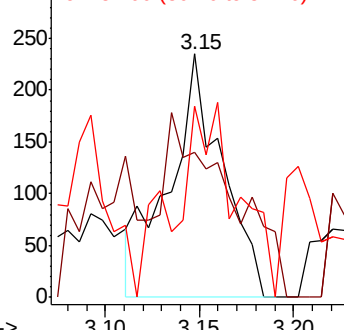
53 100

52 0.0 66.6 99.8#

51 73.5 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.269 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005659.D

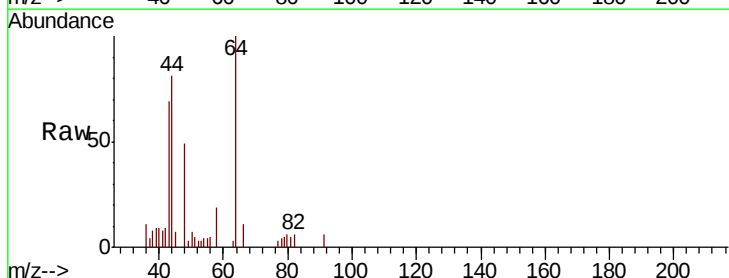
Acq: 29 Oct 2018 14:44

Tgt Ion: 43 Resp: 1875

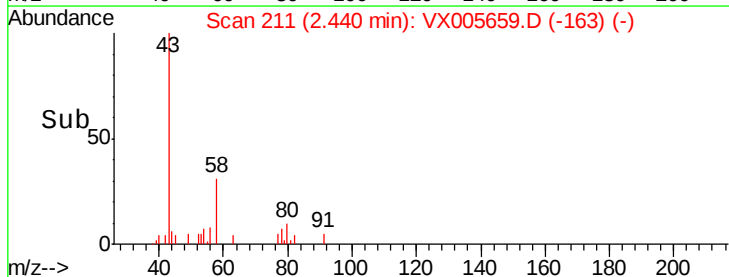
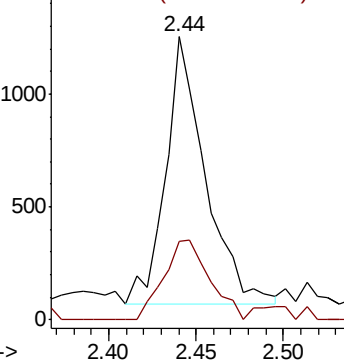
Ion Ratio Lower Upper

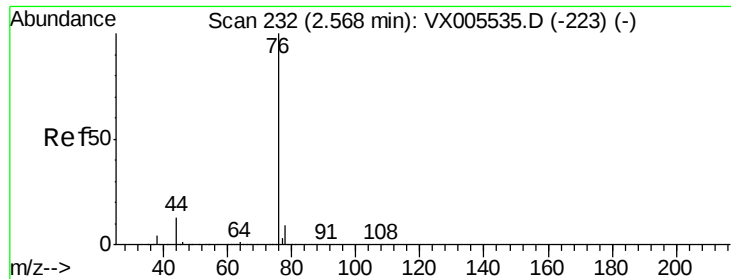
43 100

58 29.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

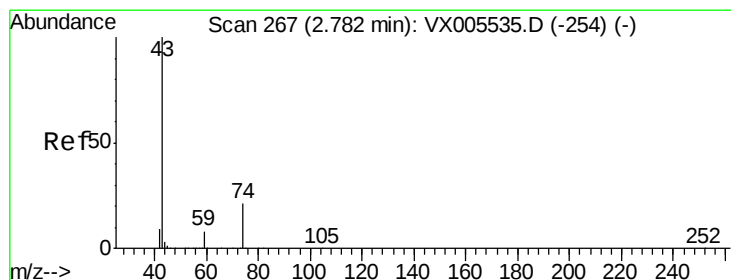
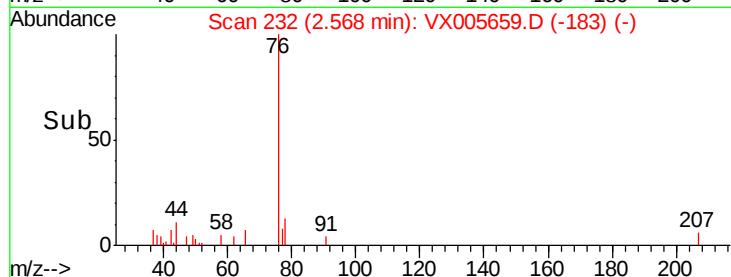
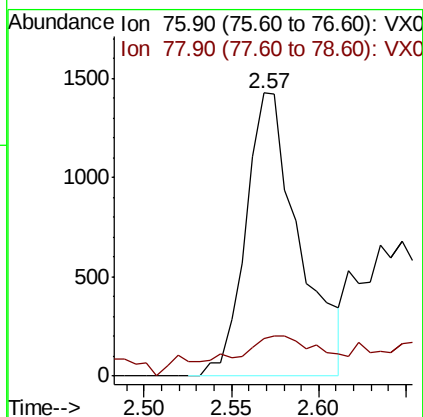
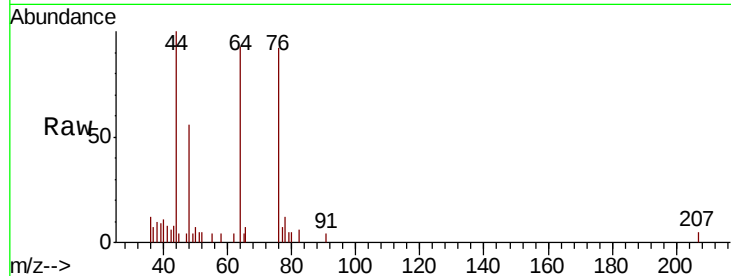




#17
Carbon Disulfide
Concen: 0.462 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

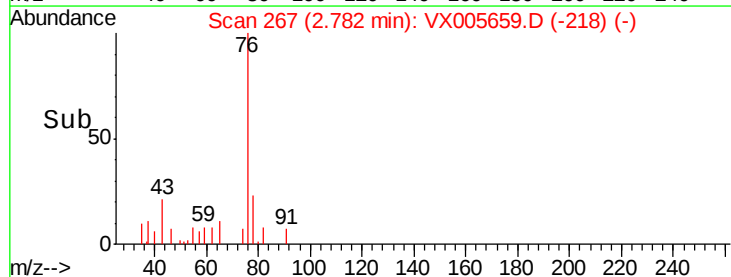
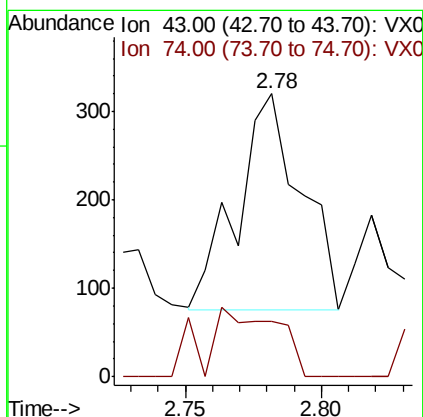
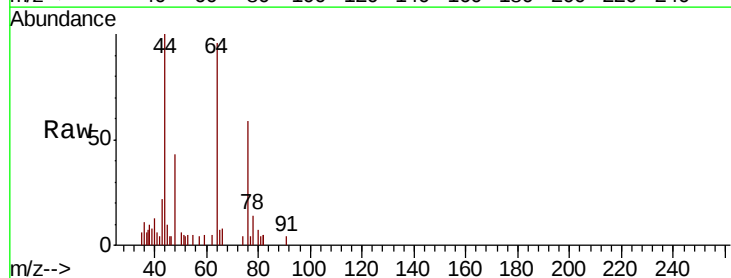
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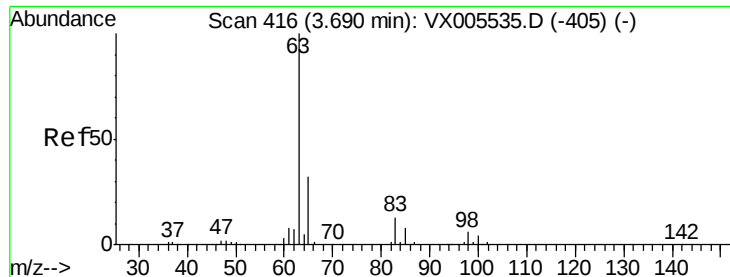
Tot Ion: 76 Resp: 3026
Ion Ratio Lower Upper
76 100
78 8.0 7.3 10.9



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

Tgt Ion: 43 Resp: 397
Ion Ratio Lower Upper
43 100
74 35.8 16.8 25.2#





#24

1,1-Dichloroethane

Concen: 0.228 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.01 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ458I-20181025

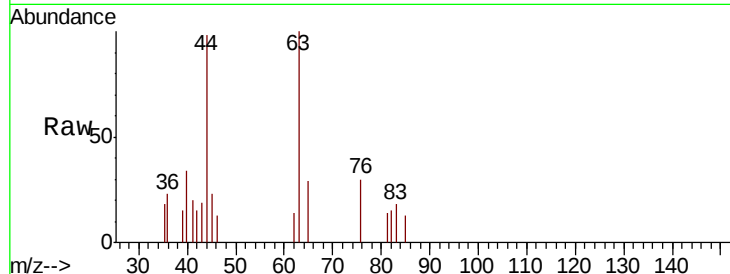
Tot Ion: 63 Resp: 1038

Ion Ratio Lower Upper

63 100

98 0.0 3.2 9.6#

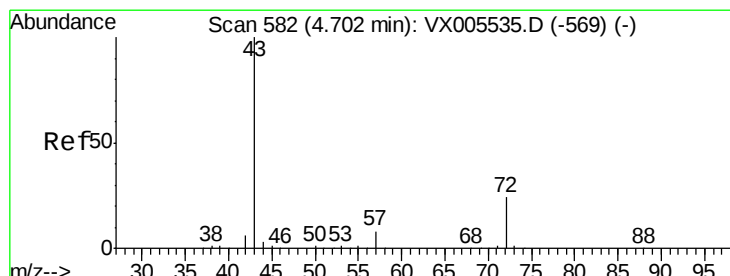
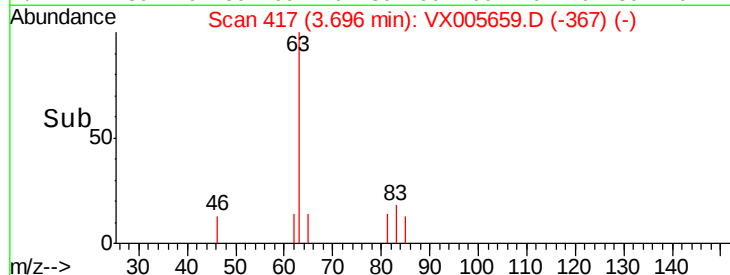
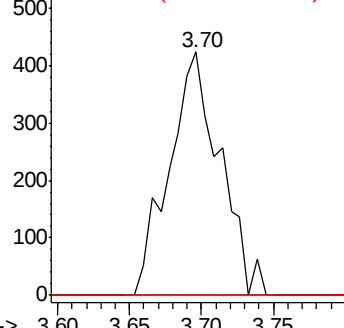
100 0.0 2.1 6.2#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.229 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005659.D

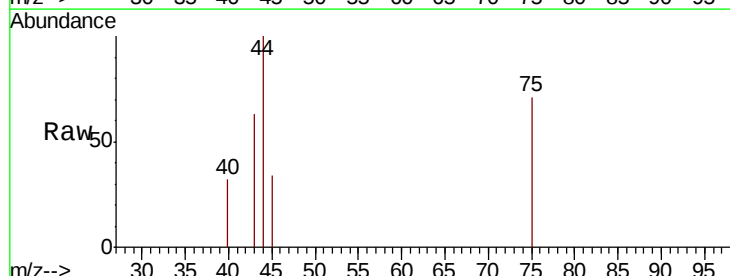
Acq: 29 Oct 2018 14:44

Tgt Ion: 43 Resp: 516

Ion Ratio Lower Upper

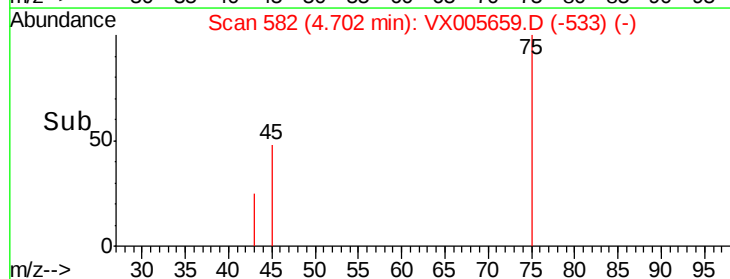
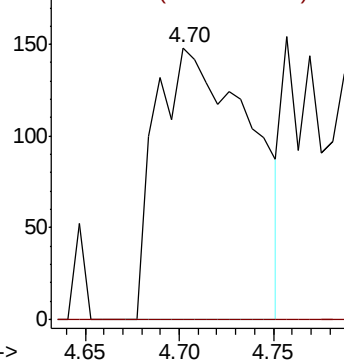
43 100

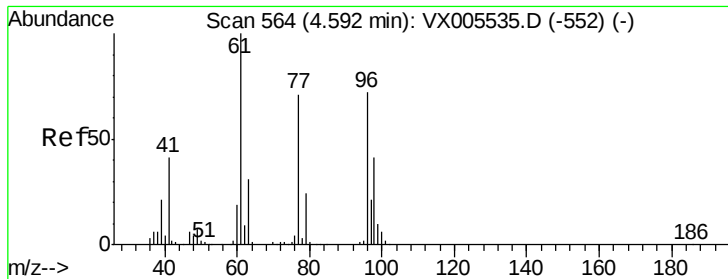
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



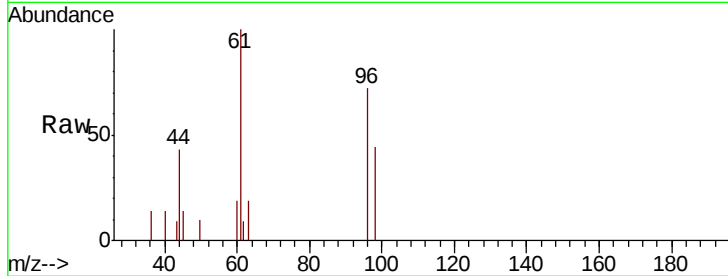


#27

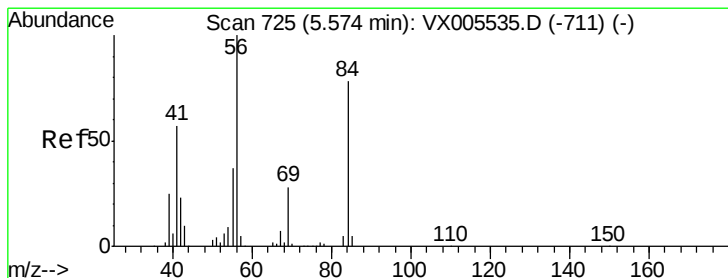
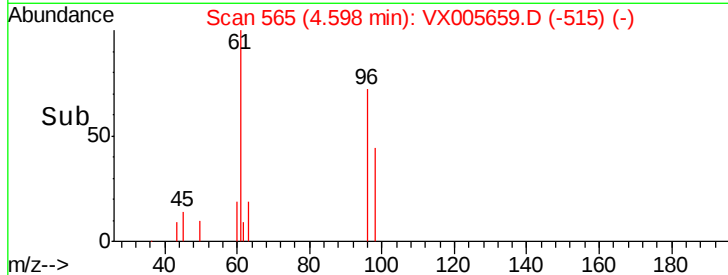
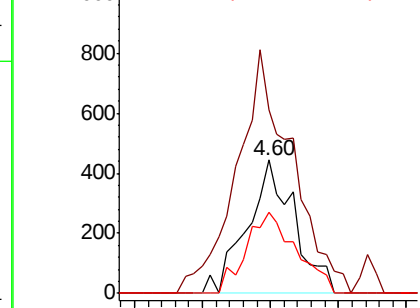
cis-1,2-Dichloroethene
 Concen: 0.423 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ458I-20181025

Tot Ion: 96 Resp: 1071
 Ion Ratio Lower Upper
 96 100
 61 213.5 0.0 304.6
 98 65.1 0.0 127.4



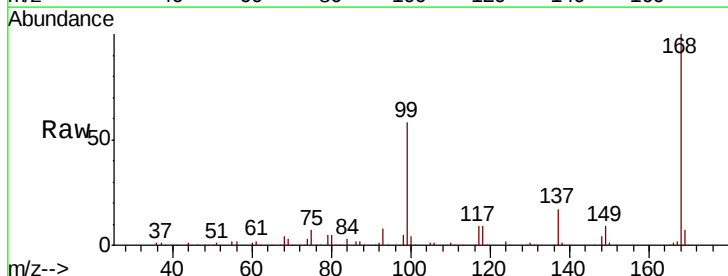
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



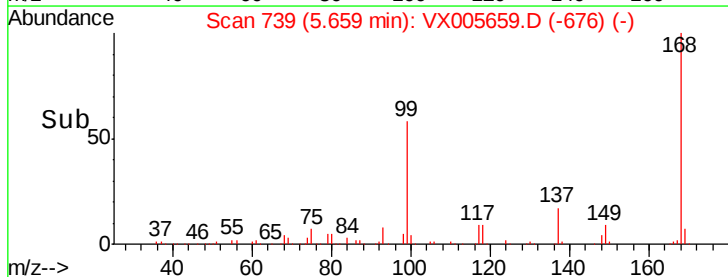
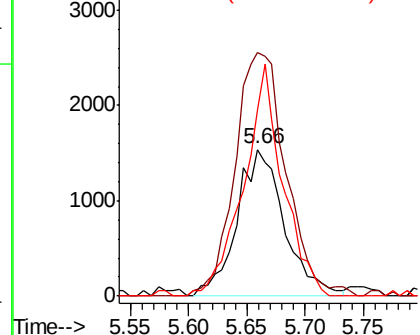
#31

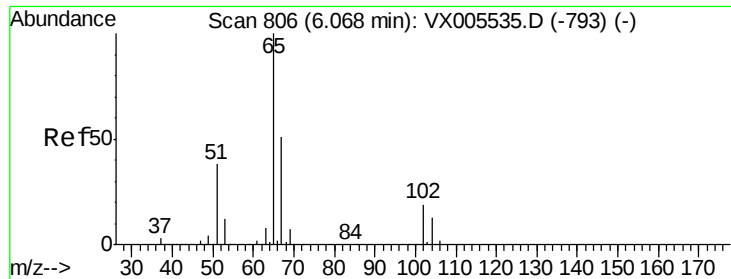
Cyclohexane
 Concen: 1.160 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.09 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

Tgt Ion: 56 Resp: 4371
 Ion Ratio Lower Upper
 56 100
 69 162.2 22.6 34.0#
 84 127.3 62.7 94.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0

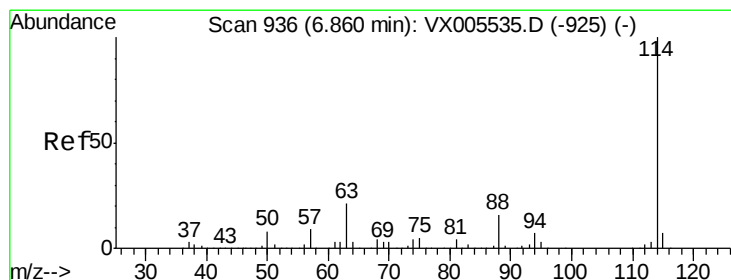
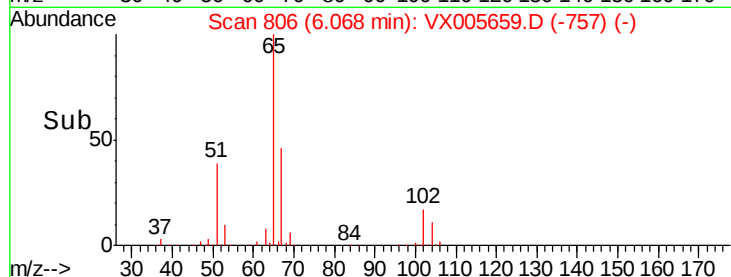
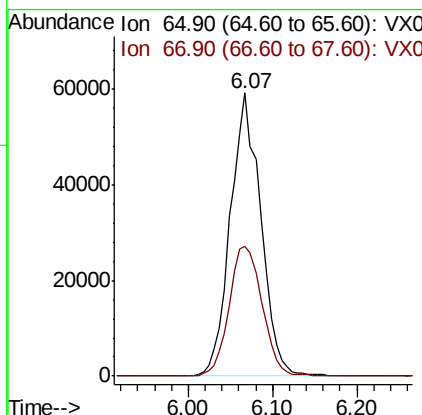
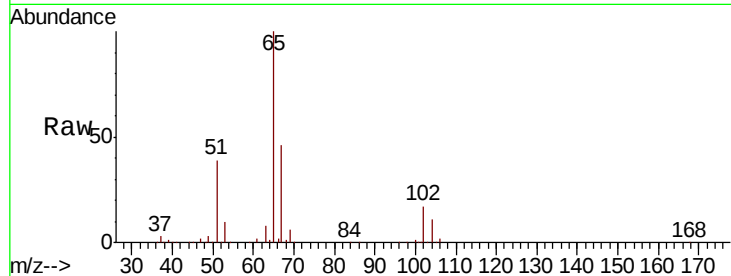




#33
 1,2-Dichloroethane-d4
 Concen: 51.893 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

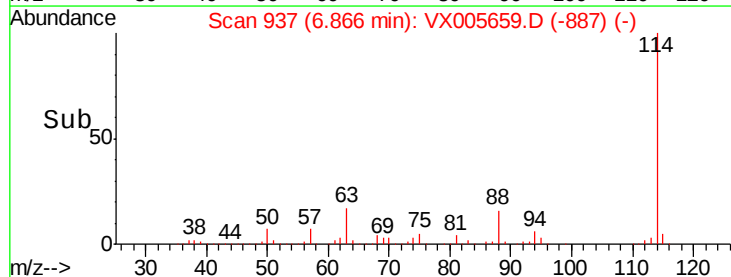
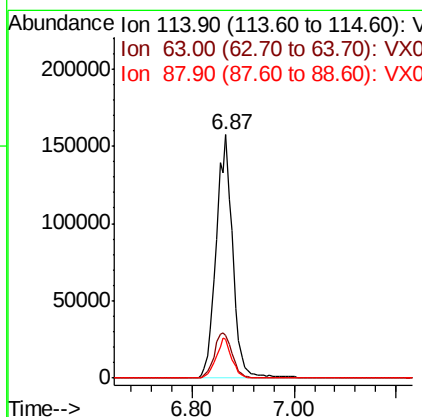
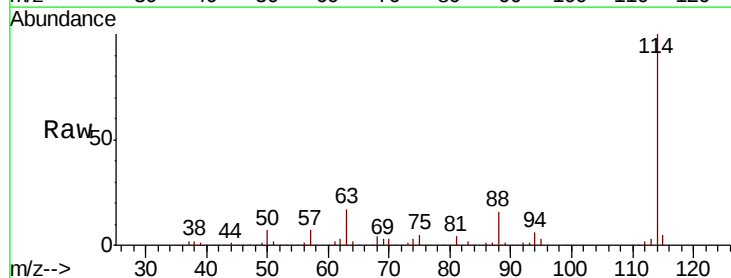
Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ458I-20181025

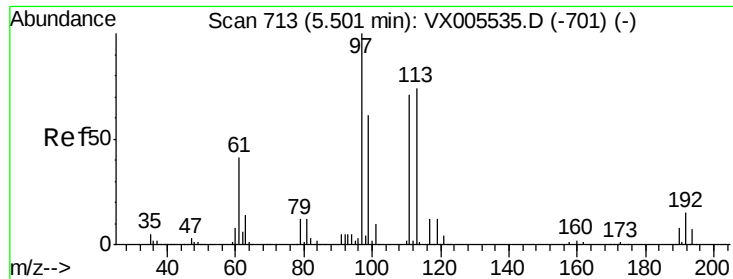
Tot Ion: 65 Resp: 145064
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

Tgt Ion: 114 Resp: 355417
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 42.8
 88 15.8 0.0 31.2

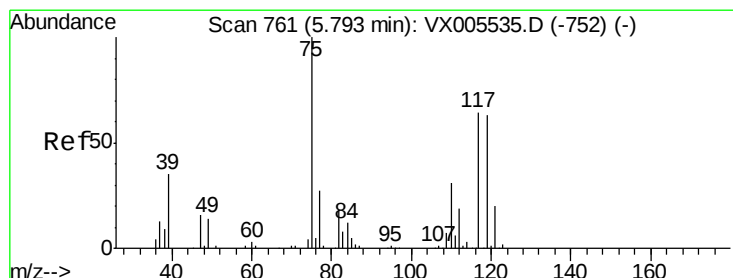
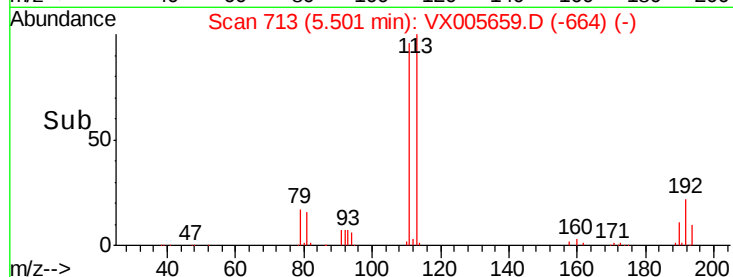
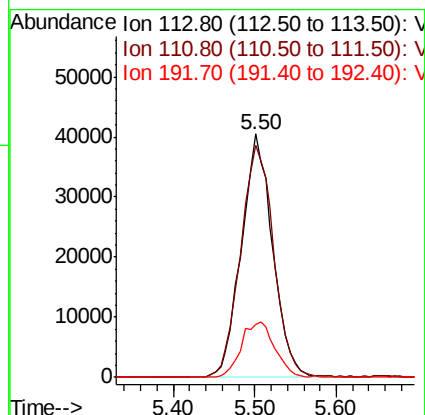
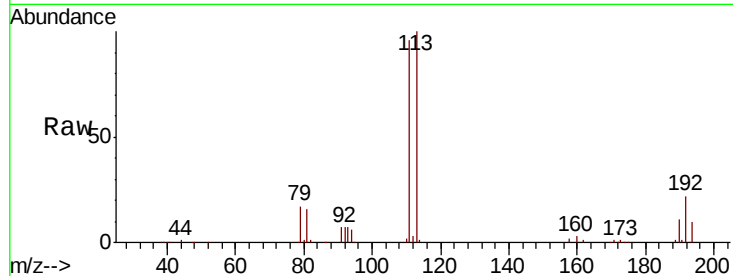




#35
 Dibromofluoromethane
 Concen: 44.810 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

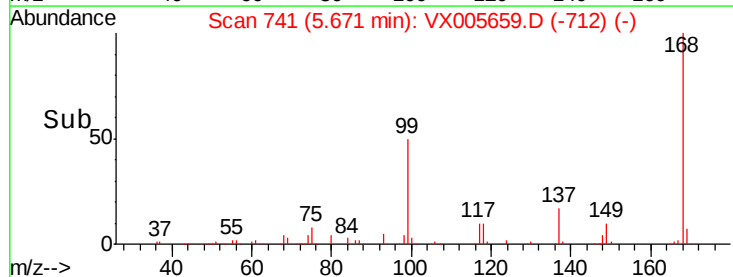
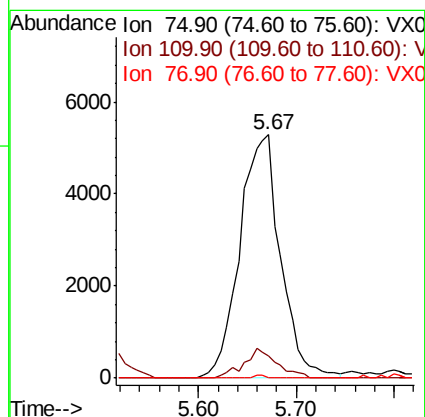
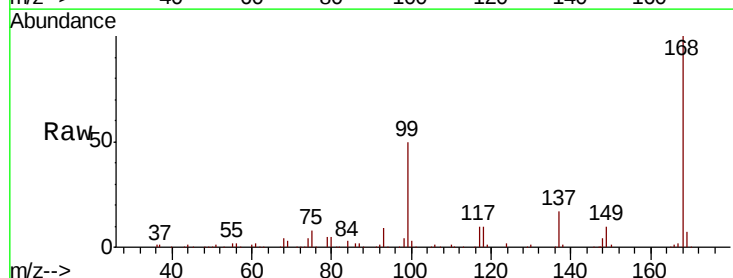
Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ458I-20181025

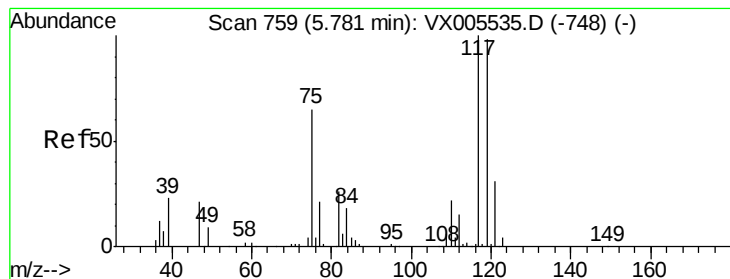
Tot Ion:113 Resp: 107840
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.3 123.5
 192 24.3 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.424 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.12 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

Tgt Ion: 75 Resp: 15258
 Ion Ratio Lower Upper
 75 100
 110 9.9 17.4 52.2#
 77 0.3 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 5.535 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ458I-20181025

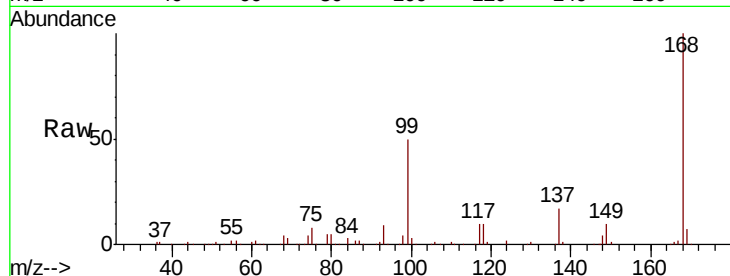
Tot Ion:117 Resp: 20108

Ion Ratio Lower Upper

117 100

119 6.7 78.1 117.1#

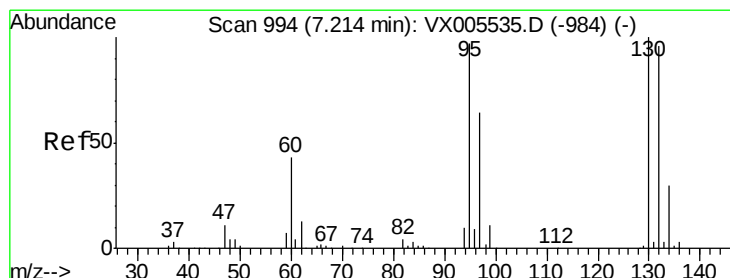
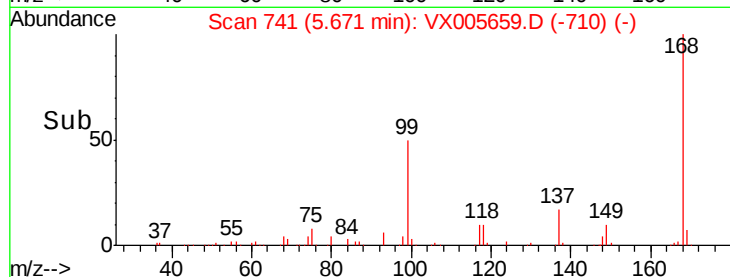
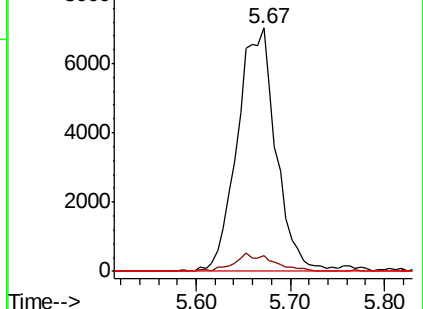
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 3.215 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005659.D

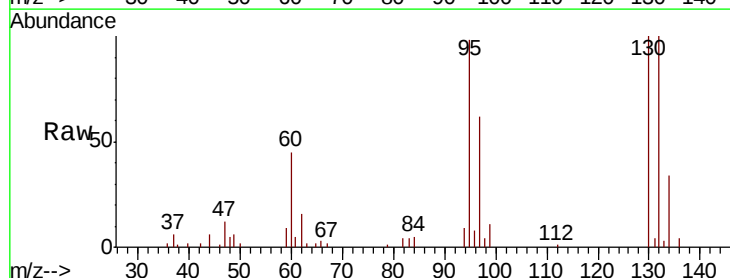
Acq: 29 Oct 2018 14:44

Tgt Ion:130 Resp: 8661

Ion Ratio Lower Upper

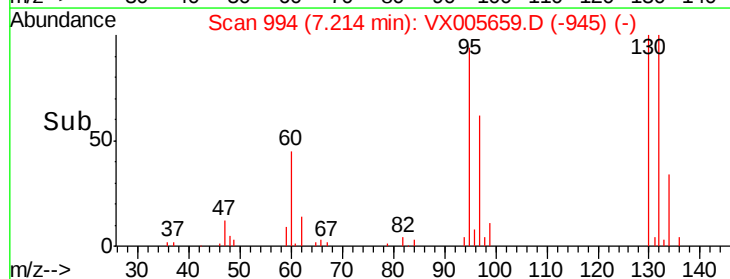
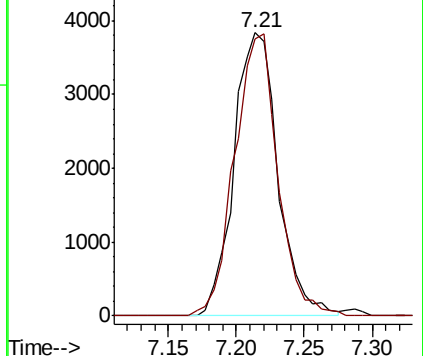
130 100

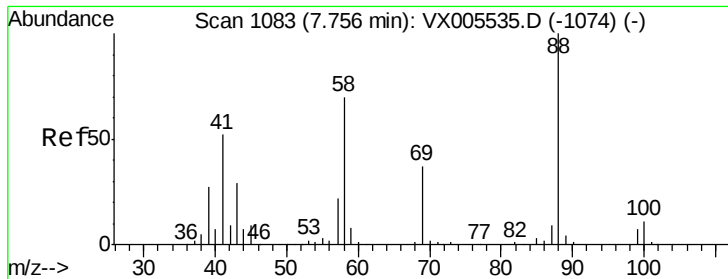
95 97.8 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

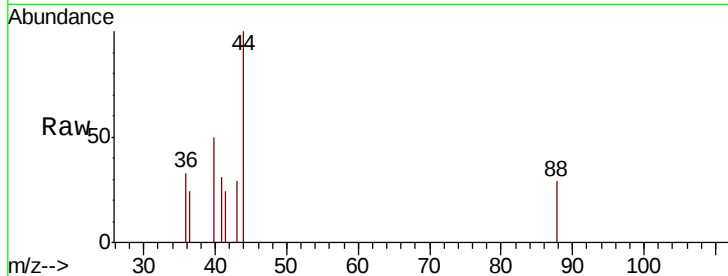




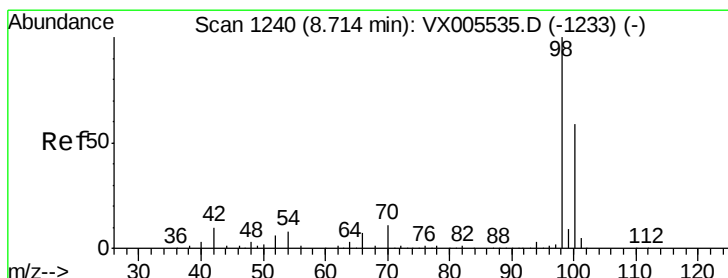
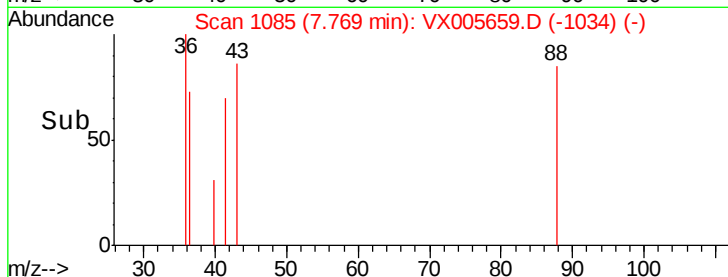
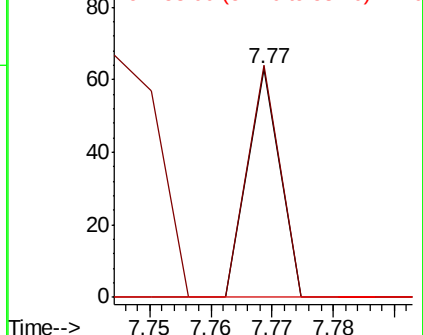
#49
 1,4-Dioxane
 Concen: 0.328 ug/l
 RT: 7.77 min Scan# 1085
 Delta R.T. 0.01 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ458I-20181025

Tot Ion: 88 Resp: 23
 Ion Ratio Lower Upper
 88 100
 43 100.0 27.4 41.0#
 58 0.0 59.4 89.2#

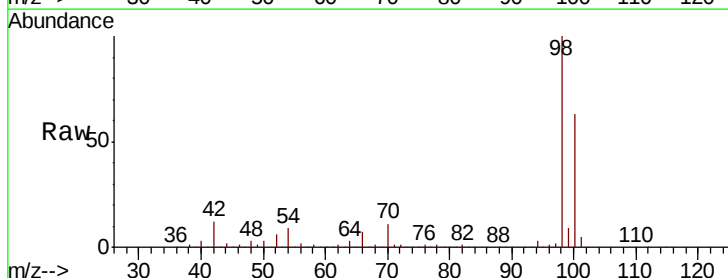


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

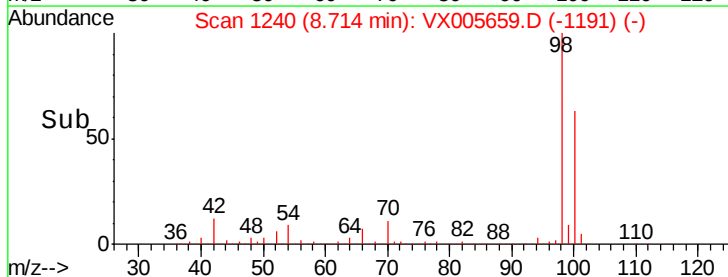
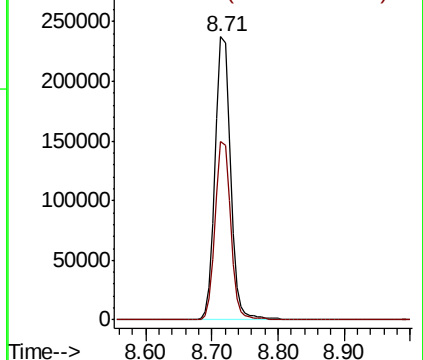


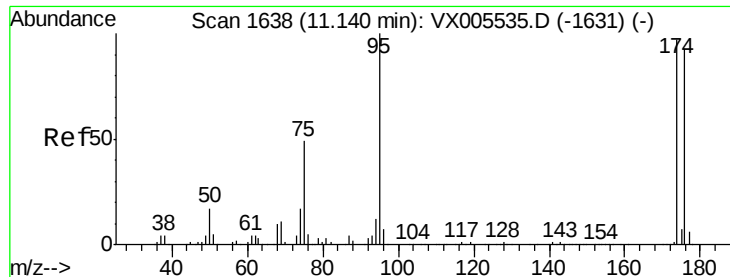
#50
 Toluene-d8
 Concen: 44.267 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX005659.D
 Acq: 29 Oct 2018 14:44

Tgt Ion: 98 Resp: 382795
 Ion Ratio Lower Upper
 98 100
 100 63.4 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V

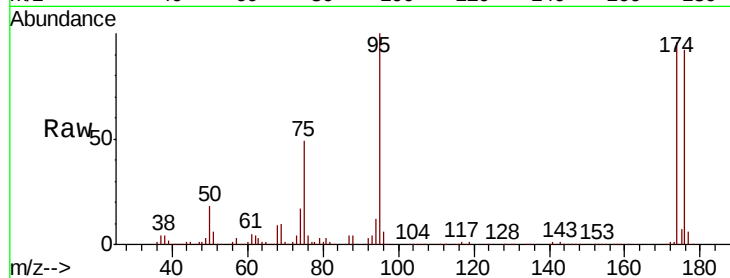




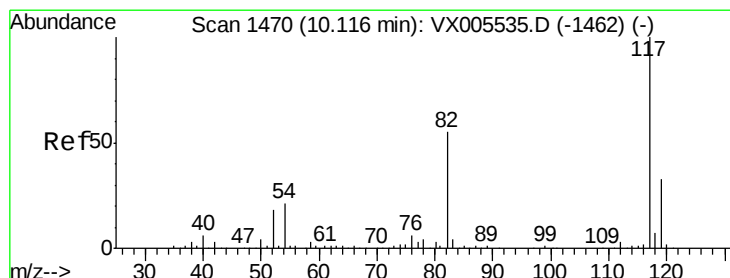
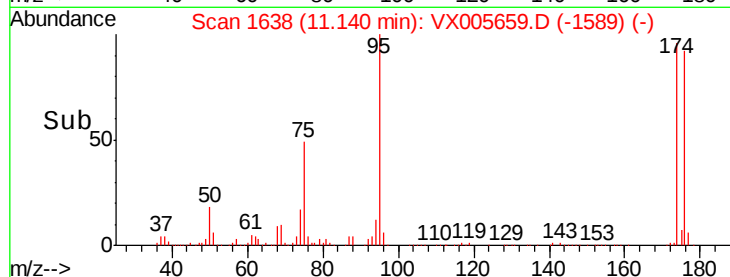
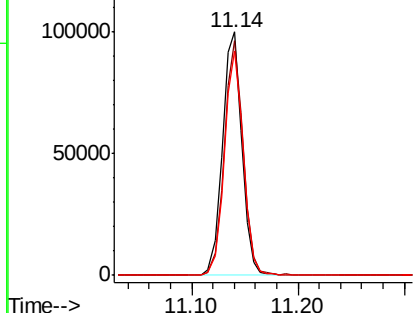
#62
4-Bromofluorobenzene
Concen: 39.059 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

Instrument :
MSVOA_X
ClientSampleId :
FT-PZ458I-20181025

Tot Ion: 95 Resp: 127553
Ion Ratio Lower Upper
95 100
174 94.0 0.0 184.4
176 90.2 0.0 177.4

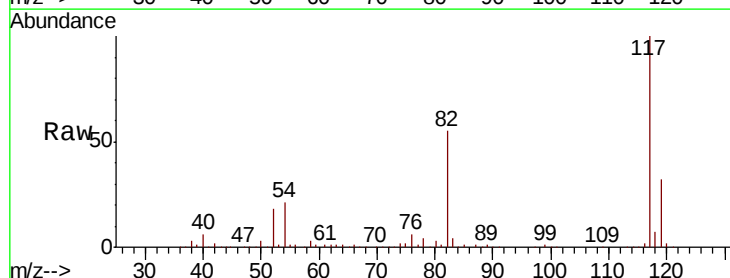


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

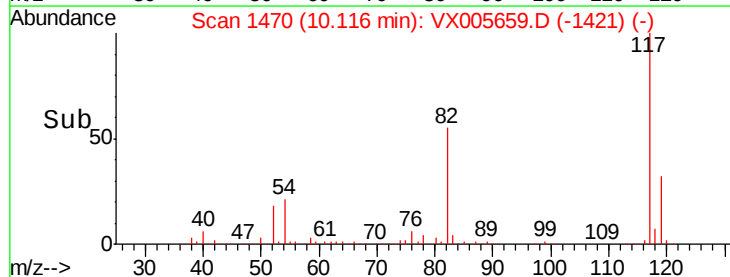
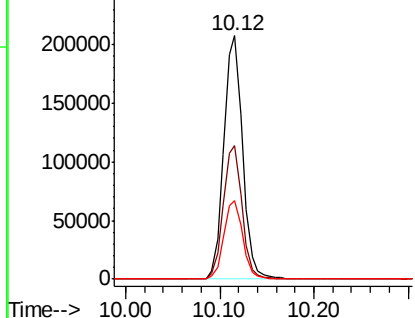


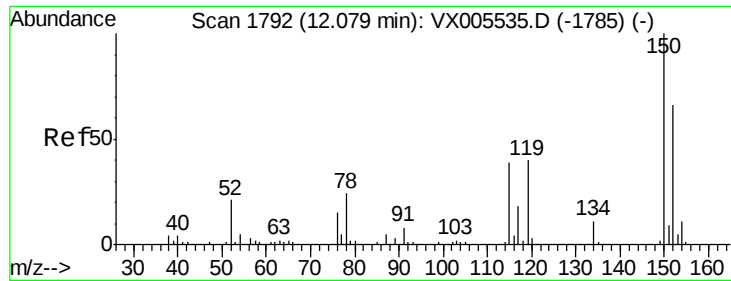
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

Tgt Ion: 117 Resp: 287166
Ion Ratio Lower Upper
117 100
82 55.0 44.1 66.1
119 32.2 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V



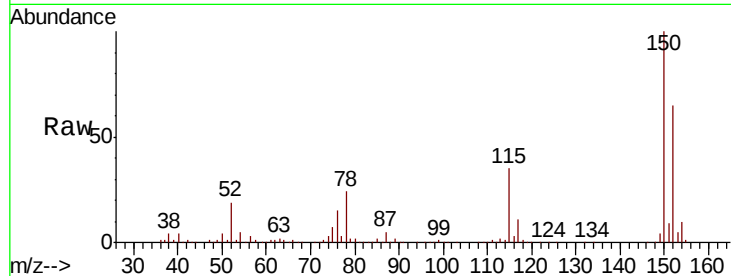


#72

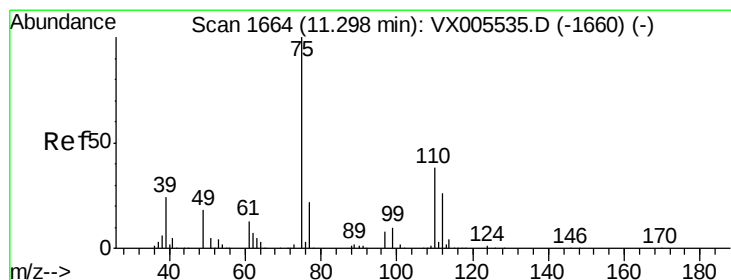
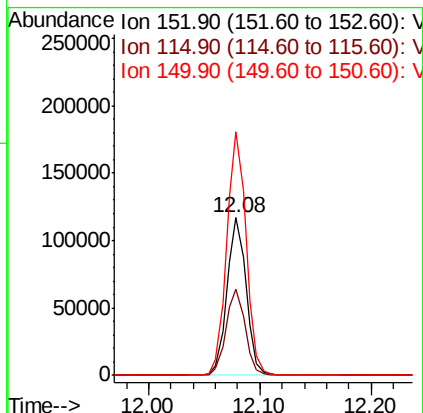
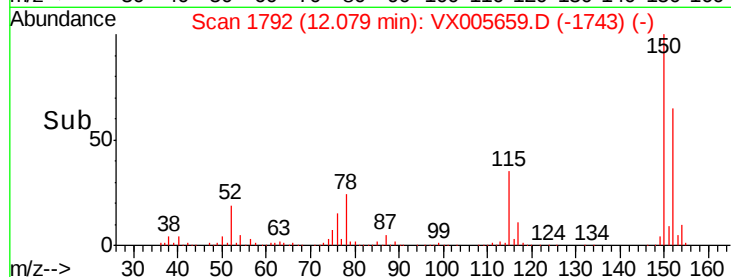
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

Instrument :
MSVOA_X
ClientSampleId :
FT-PZ458I-20181025

Tot Ion:152 Resp: 138992
Ion Ratio Lower Upper
152 100
115 54.6 39.4 118.1
150 156.2 0.0 346.4



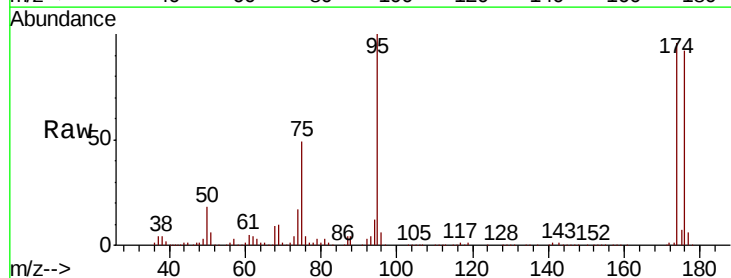
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



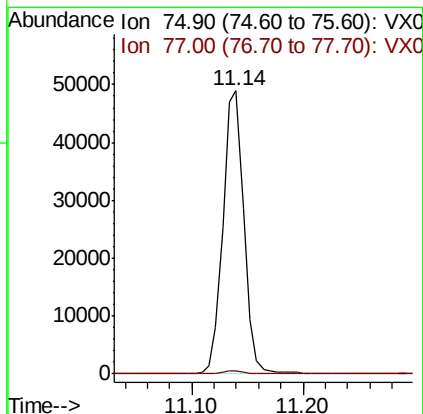
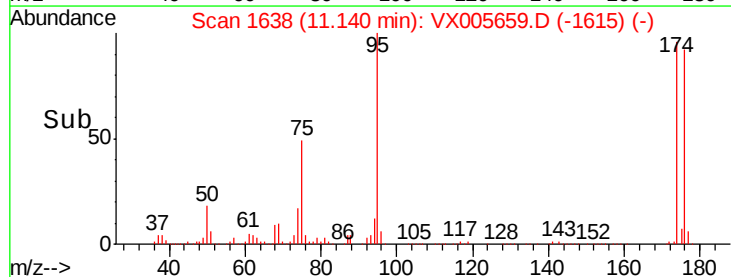
#76

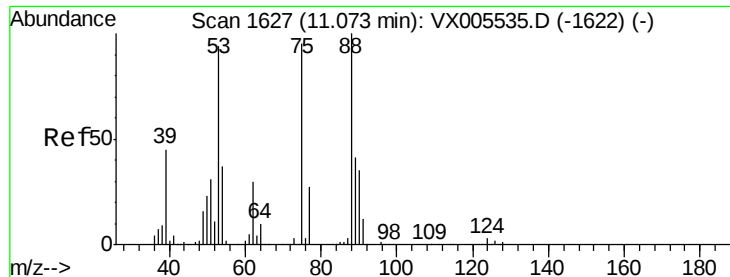
1,2,3-Trichloropropane
Concen: 21.622 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005659.D
Acq: 29 Oct 2018 14:44

Tgt Ion: 75 Resp: 63676
Ion Ratio Lower Upper
75 100
77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.652 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005659.D

Acq: 29 Oct 2018 14:44

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ458I-20181025

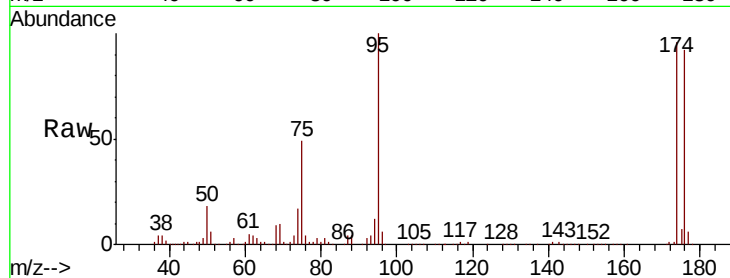
Tot Ion: 75 Resp: 63676

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

89 0.0 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

