

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100518\
 Data File : VX005096.D
 Acq On : 06 Oct 2018 05:32
 Operator : JC/MD
 Sample : J5259-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-GMZ4-TB2

Quant Time: Oct 06 06:42:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	221341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	314865	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	310461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	176931	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	162666	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
35) Dibromofluoromethane	5.51	113	145381	54.48	ug/l	0.00
Spiked Amount			Recovery	=	108.96%	
50) Toluene-d8	8.72	98	460041	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
62) 4-Bromofluorobenzene	11.14	95	166463	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	

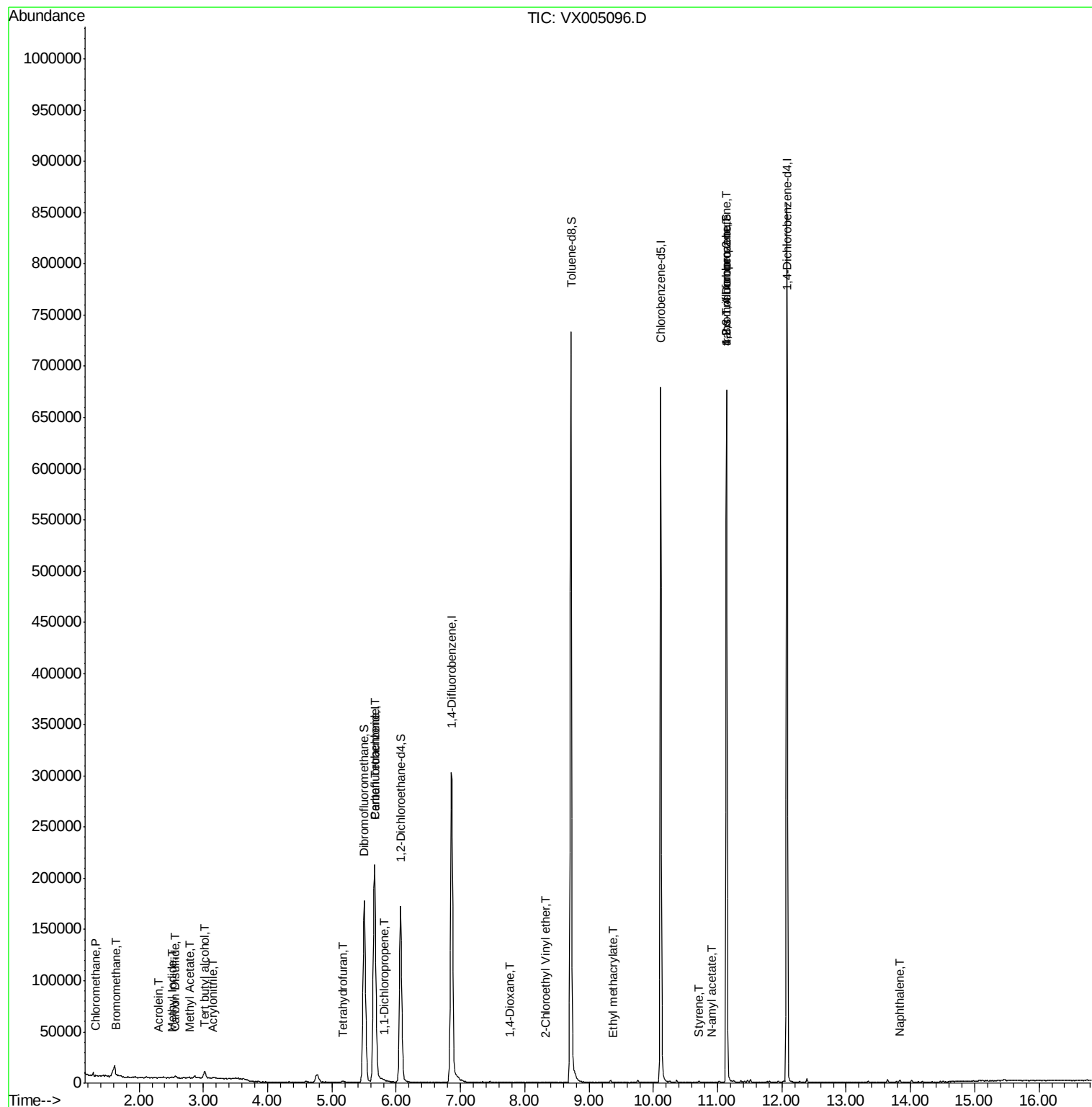
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	742	0.203	ug/l #	82
5) Bromomethane	1.65	94	1099	0.540	ug/l #	51
6) Chloroethane	1.73	64	123	Below Cal	#	45
10) Methyl Iodide	2.52	142	894	0.276	ug/l #	89
11) Tert butyl alcohol	3.03	59	3906	4.418	ug/l #	86
13) Acrolein	2.31	56	232	0.369	ug/l #	10
15) Acrylonitrile	3.15	53	796	0.409	ug/l #	77
17) Carbon Disulfide	2.57	76	2078	0.288	ug/l #	86
18) Methyl Acetate	2.78	43	1662	0.355	ug/l	98
20) Methylene Chloride	2.85	84	992	Below Cal	#	76
29) Tetrahydrofuran	5.17	42	808	0.478	ug/l #	77
36) 1,1-Dichloropropene	5.81	75	810	0.222	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19831	5.182	ug/l #	19
49) 1,4-Dioxane	7.77	88	23	0.292	ug/l #	21
56) Ethyl methacrylate	9.37	69	20	2.866	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.33	63	217	14.329	ug/l #	49
70) Styrene	10.72	104	308	2.175	ug/l #	76
74) N-amyl acetate	10.90	43	159	1.773	ug/l #	51
76) 1,2,3-Trichloropropane	11.14	75	81758	20.616	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	607	Below Cal		93
81) trans-1,4-Dichloro-2-buten	11.14	75	81758	55.981	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	553	Below Cal		94
95) Naphthalene	13.84	128	1407	0.814	ug/l	98

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

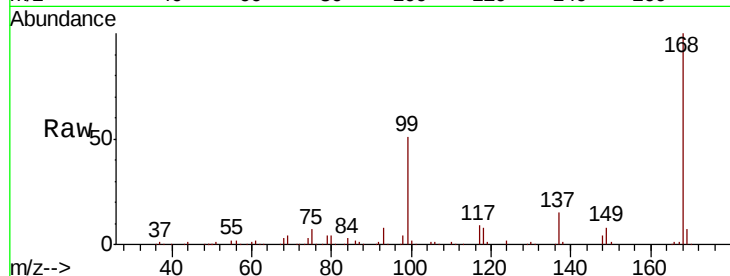
FA18-GMZ4-TB2

Tot Ion:168 Resp: 221341

Ion Ratio Lower Upper

168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): VX004724.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX004724.D (-727) (-)

5.67

80000

60000

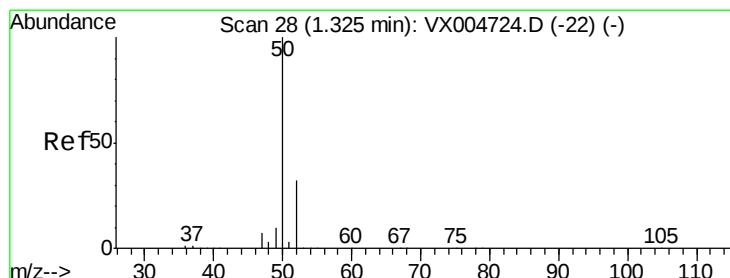
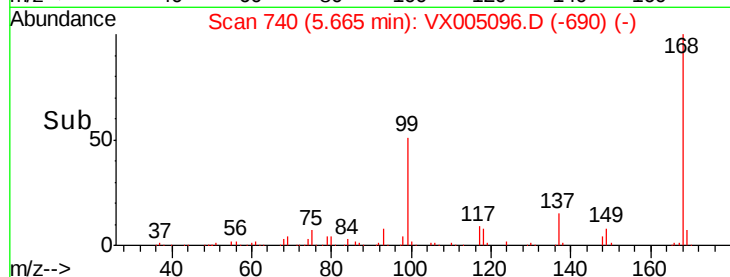
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005096.D

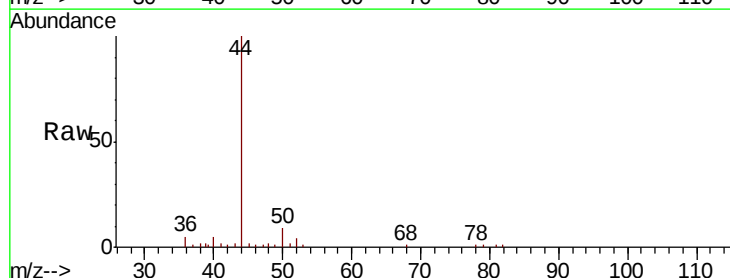
Acq: 06 Oct 2018 05:32

Tgt Ion: 50 Resp: 742

Ion Ratio Lower Upper

50 100

52 42.3 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX004724.D (-22) (-)

Ion 51.90 (51.60 to 52.60): VX004724.D (-22) (-)

1.32

500

400

300

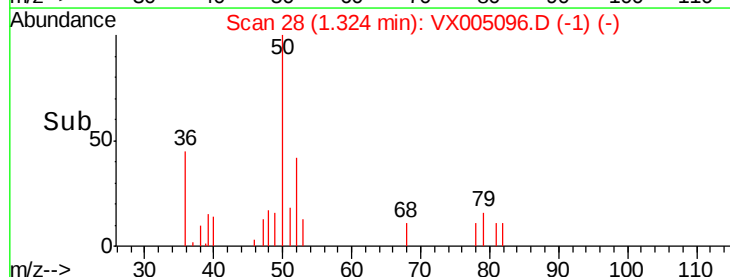
200

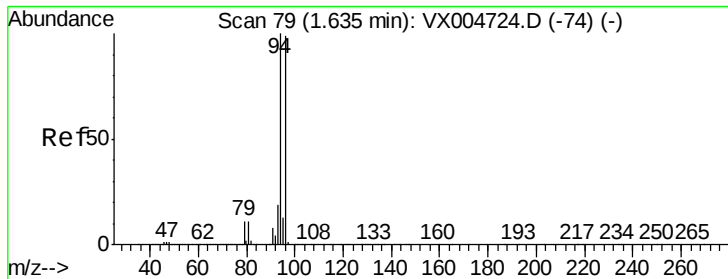
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.540 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

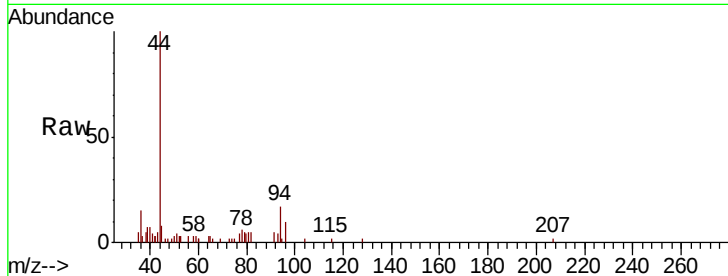
FA18-GMZ4-TB2

Tot Ion: 94 Resp: 1099

Ion Ratio Lower Upper

94 100

96 50.4 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

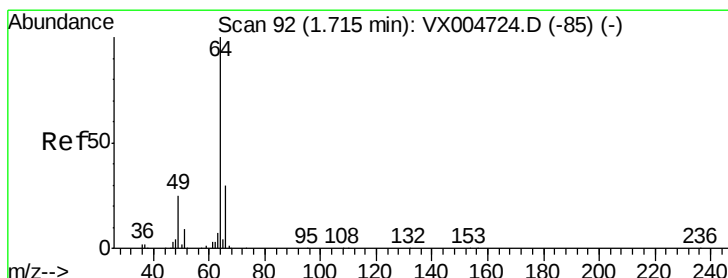
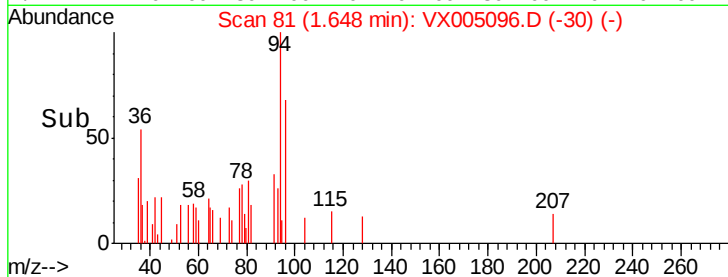
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX005096.D

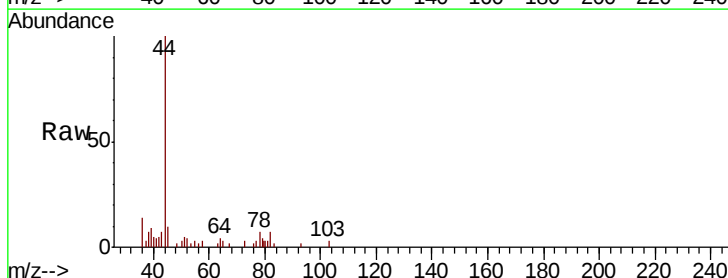
Acq: 06 Oct 2018 05:32

Tgt Ion: 64 Resp: 123

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

120

100

80

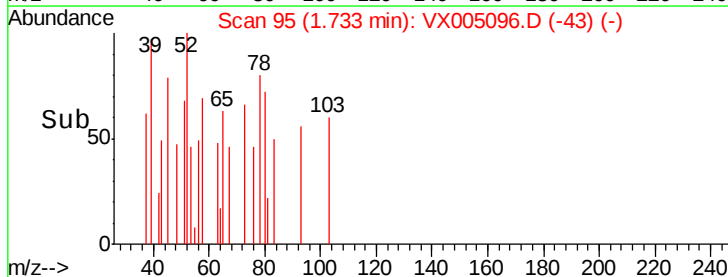
60

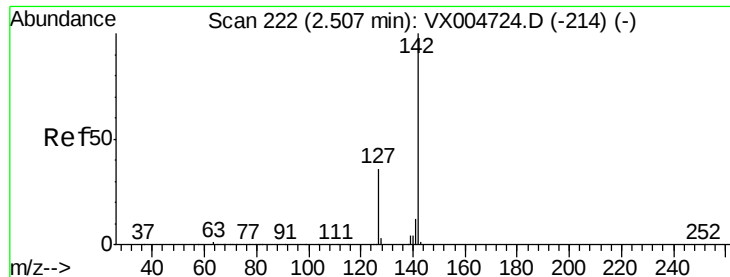
40

20

0

Time-->

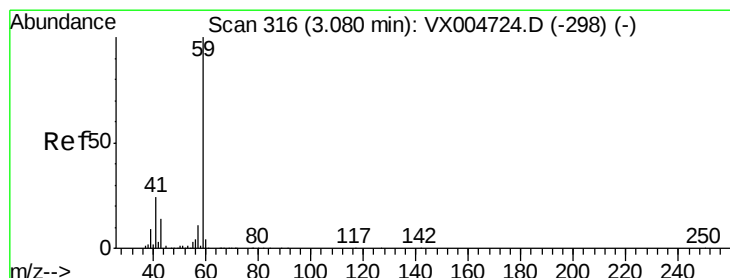
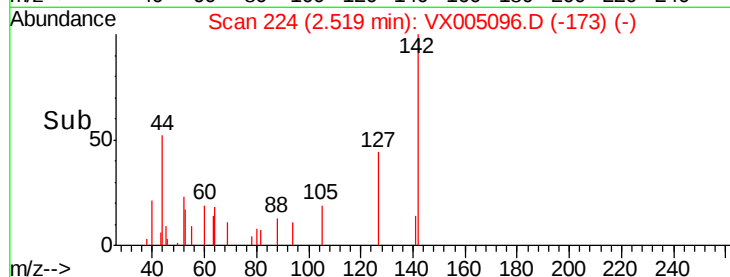
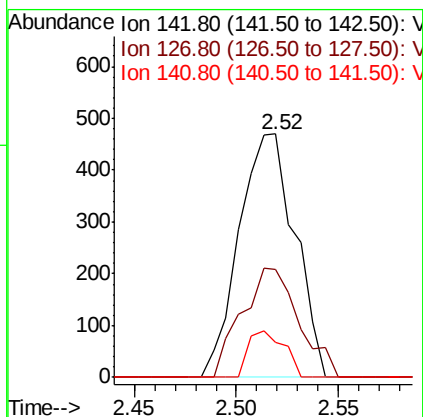
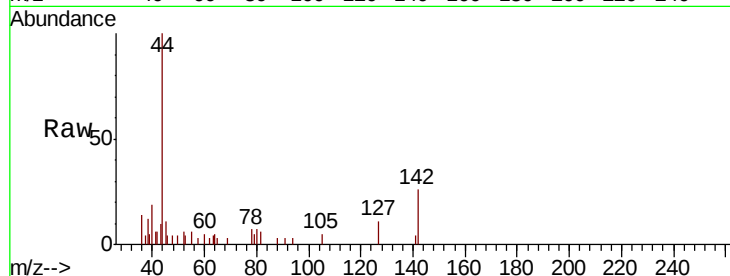




#10
Methvl Iodide
Concen: 0.276 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

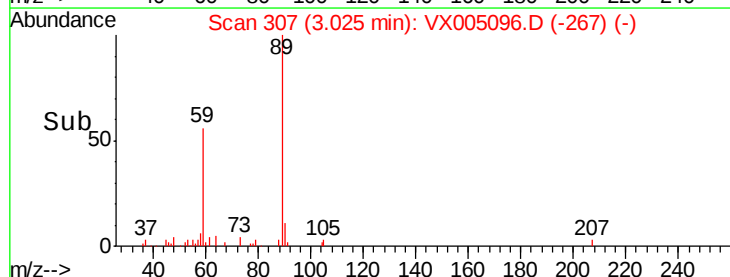
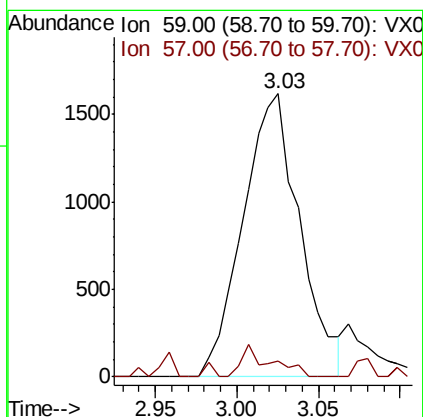
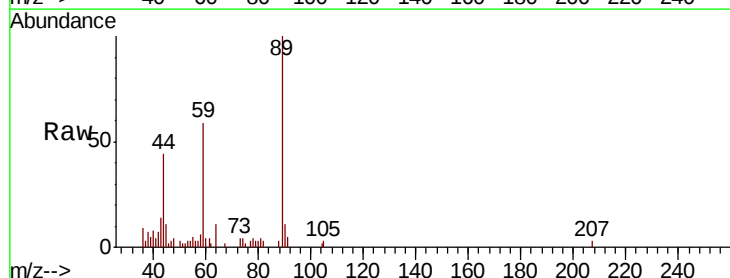
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ4-TB2

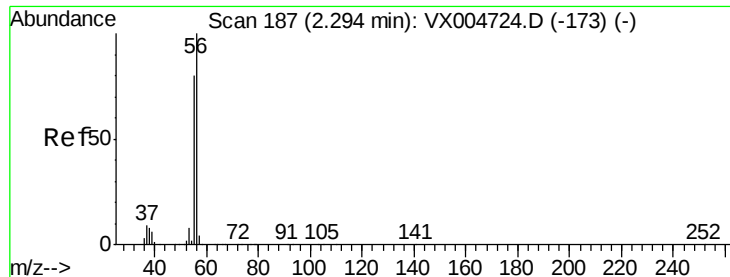
Tot Ion	Ratio	Lower	Upper
142	100		
127	45.9	30.1	45.1#
141	12.2	10.1	15.1



#11
Tert butyl alcohol
Concen: 4.418 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Tgt Ion	Ratio	Lower	Upper
59	100		
57	5.6	8.6	12.8#





#13

Acrolein

Concen: 0.369 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

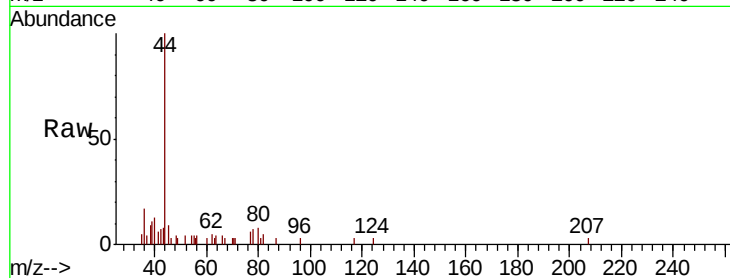
FA18-GMZ4-TB2

Tot Ion: 56 Resp: 232

Ion Ratio Lower Upper

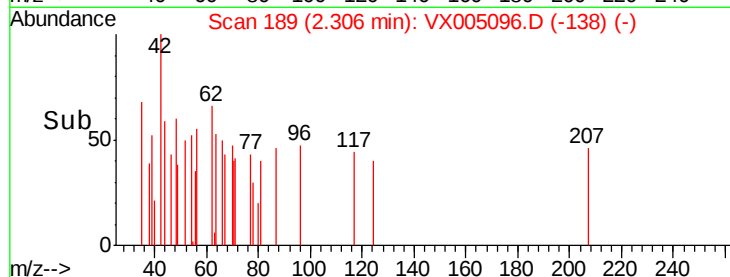
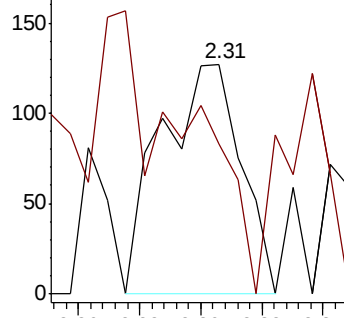
56 100

55 0.0 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.409 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

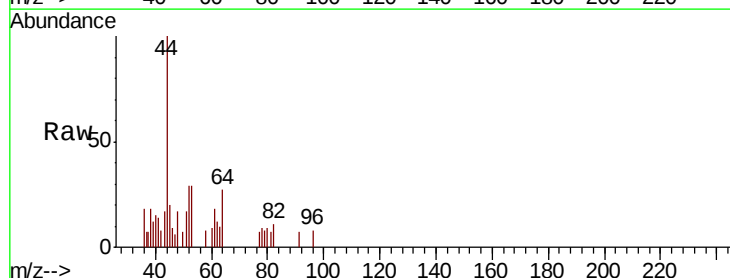
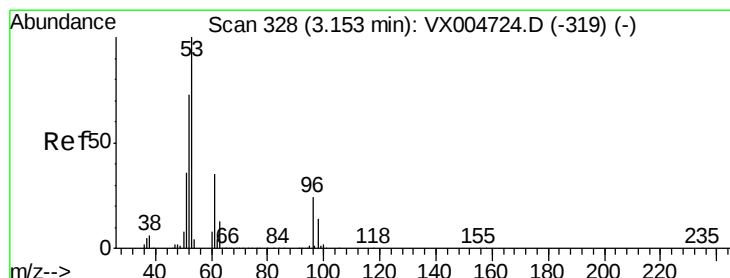
Tgt Ion: 53 Resp: 796

Ion Ratio Lower Upper

53 100

52 96.9 63.0 94.4#

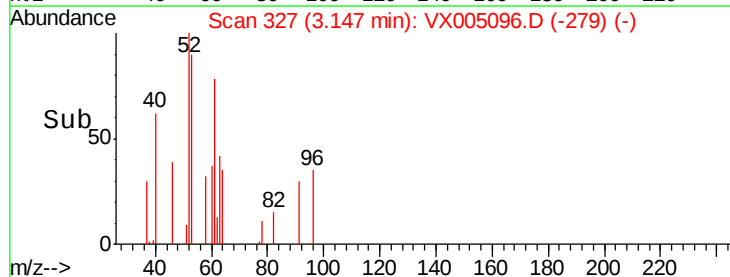
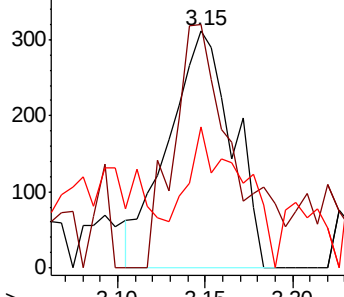
51 51.4 28.6 42.8#

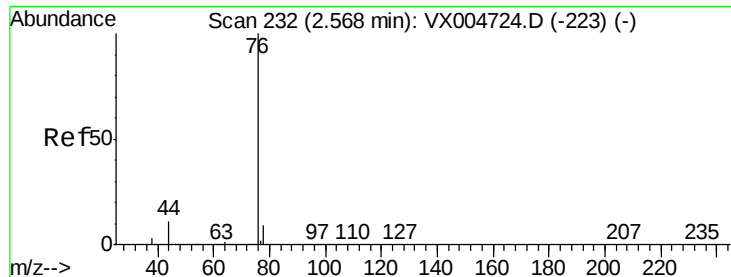


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#17

Carbon Disulfide

Concen: 0.288 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

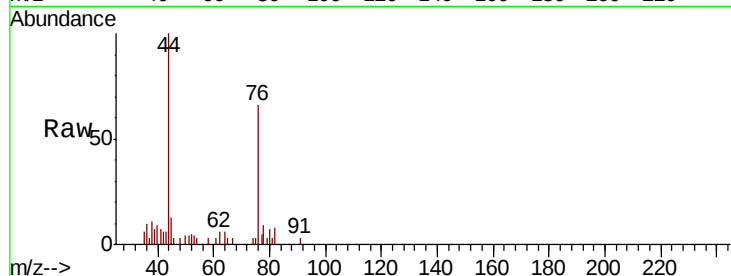
FA18-GMZ4-TB2

Tot Ion: 76 Resp: 2078

Ion Ratio Lower Upper

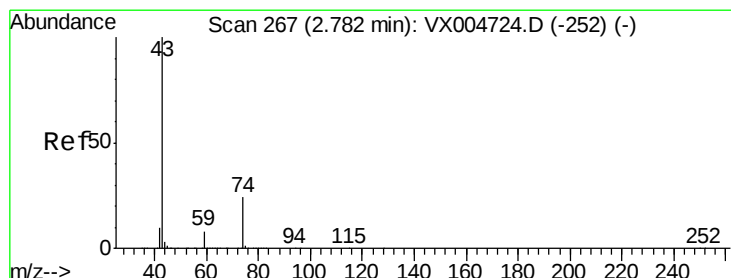
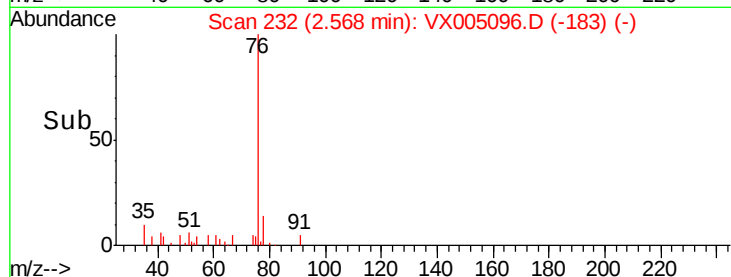
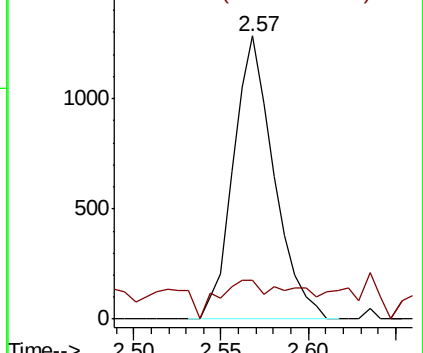
76 100

78 3.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.355 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005096.D

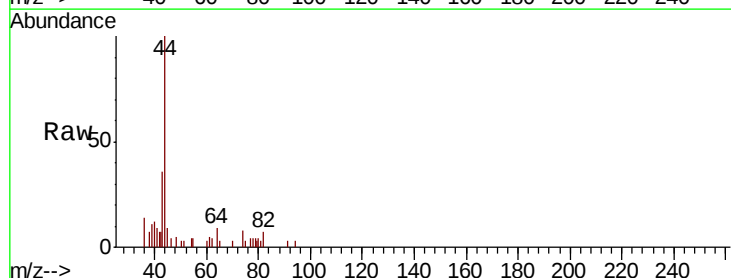
Acq: 06 Oct 2018 05:32

Tgt Ion: 43 Resp: 1662

Ion Ratio Lower Upper

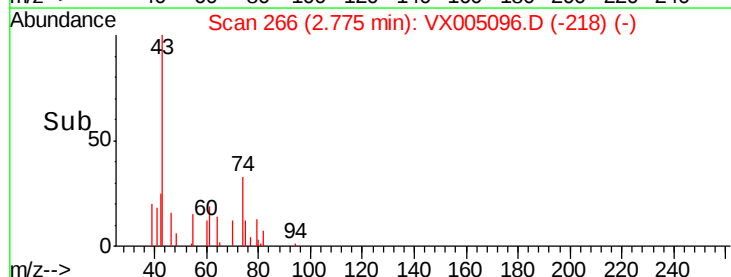
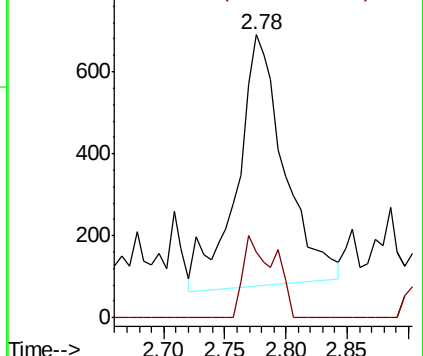
43 100

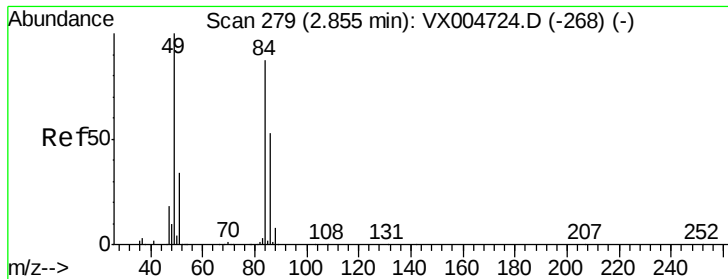
74 21.2 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

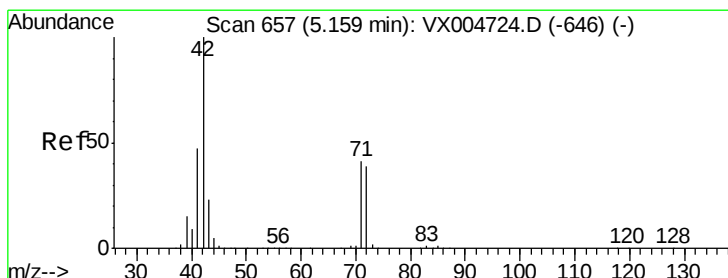
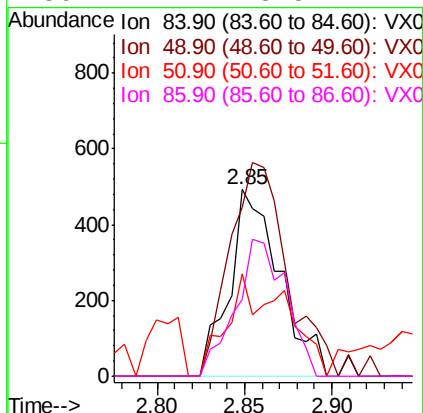
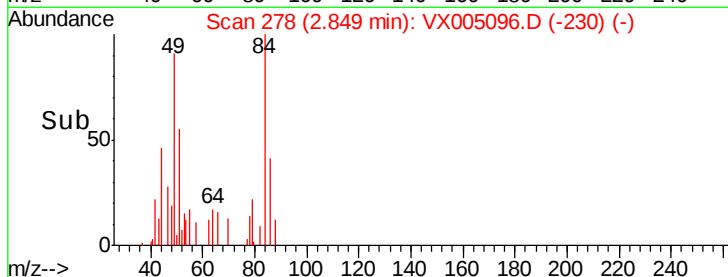
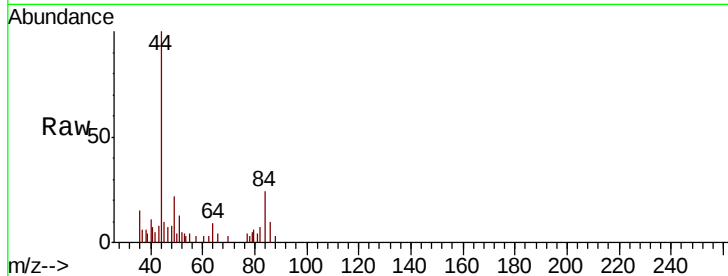




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

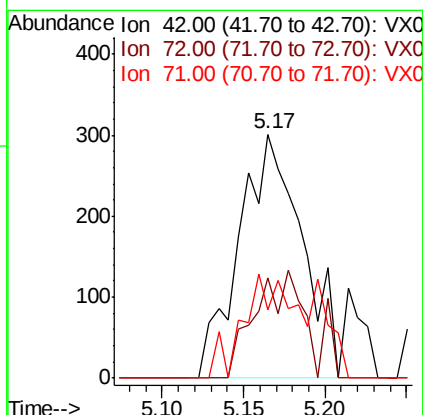
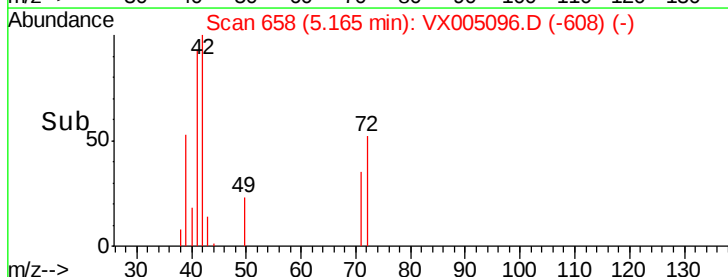
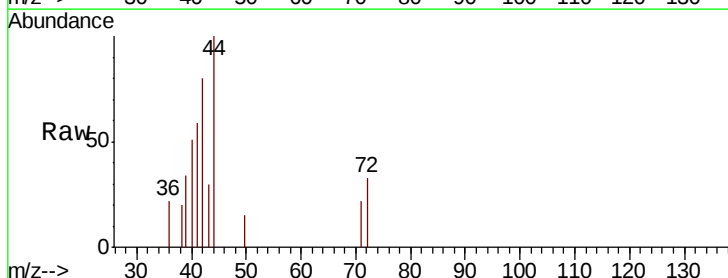
Instrument :
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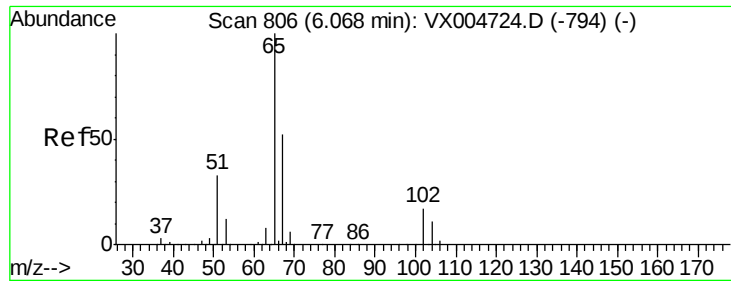
Tot Ion:	84	Resp:	992
Ion	Ratio	Lower	Upper
84	100		
49	90.9	92.3	138.5#
51	55.1	31.8	47.6#
86	41.1	48.5	72.7#



#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Tgt Ion:	42	Resp:	808
Ion	Ratio	Lower	Upper
42	100		
72	18.7	33.7	50.5#
71	34.9	32.2	48.4





#33

1,2-Dichloroethane-d4

Concen: 51.446 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

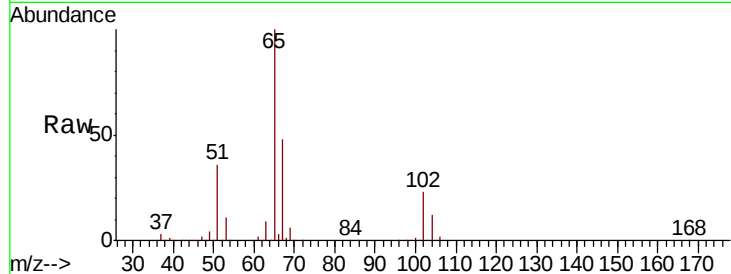
FA18-GMZ4-TB2

Tot Ion: 65 Resp: 162666

Ion Ratio Lower Upper

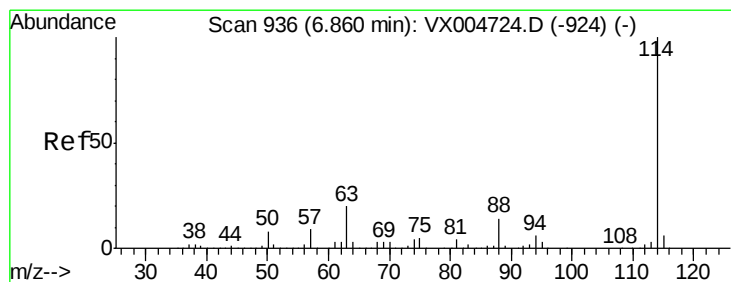
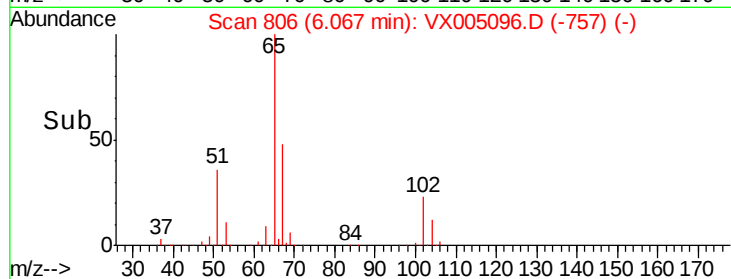
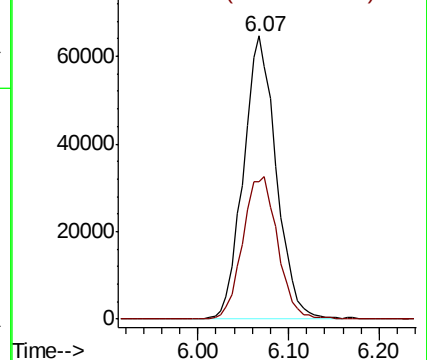
65 100

67 53.5 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

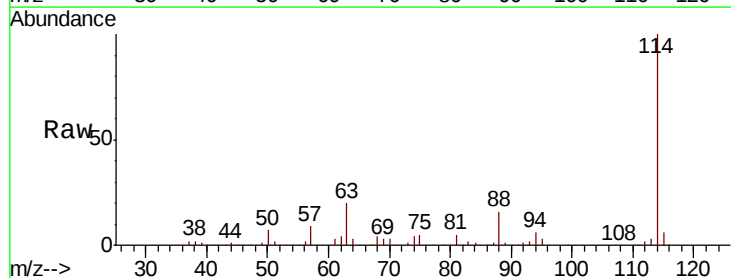
Tgt Ion: 114 Resp: 314865

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

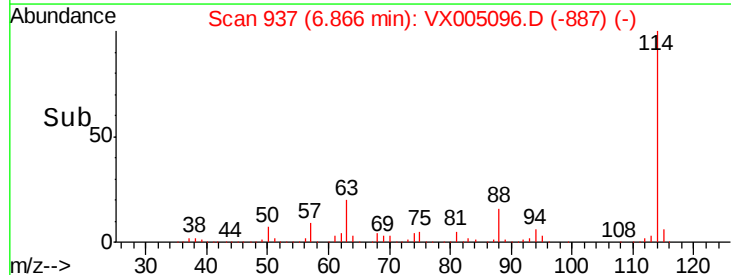
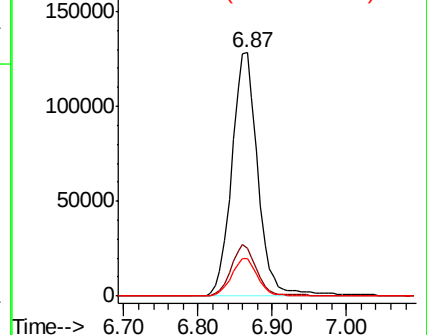
88 15.6 0.0 27.0

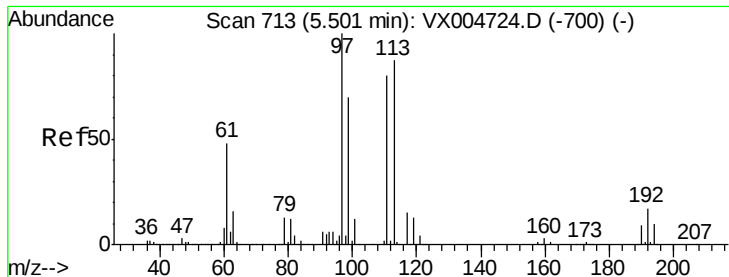


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 54.480 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ4-TB2

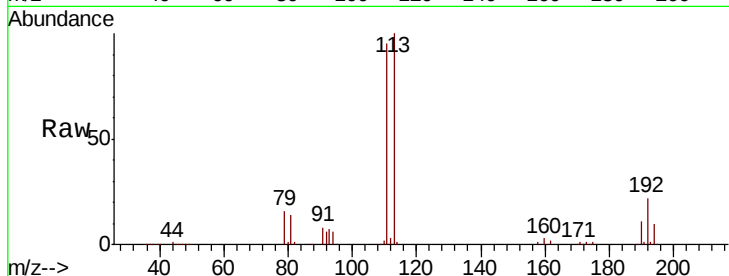
Tot Ion:113 Resp: 145381

Ion Ratio Lower Upper

113 100

111 104.7 77.0 115.4

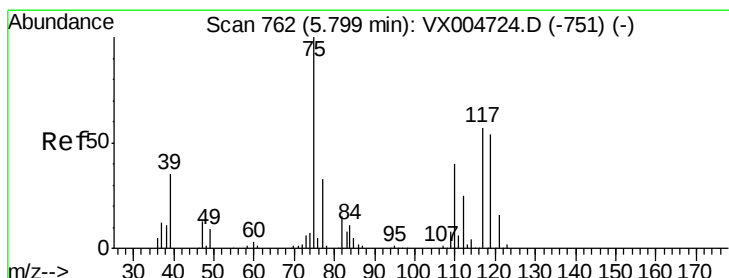
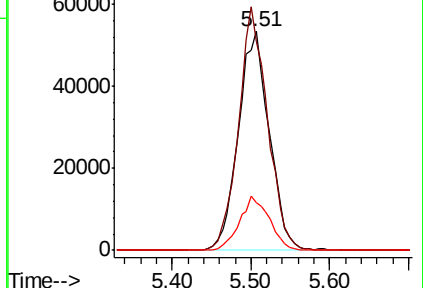
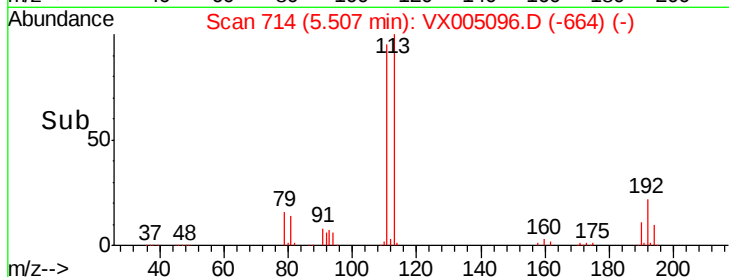
192 23.8 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 0.222 ug/l

RT: 5.81 min Scan# 764

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

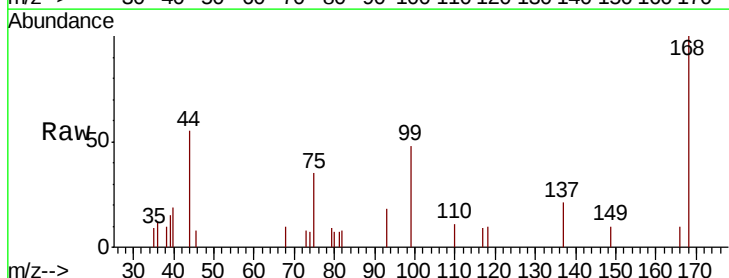
Tgt Ion: 75 Resp: 810

Ion Ratio Lower Upper

75 100

110 10.1 20.0 59.9#

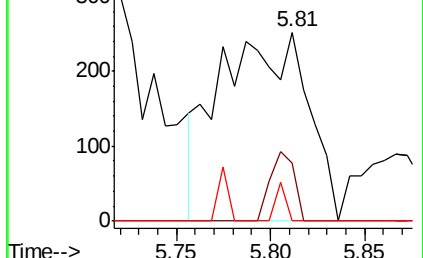
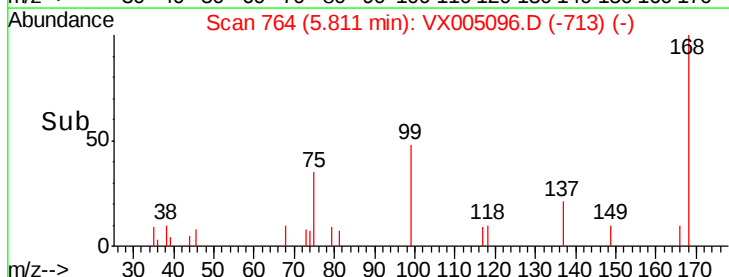
77 2.3 27.1 40.7#

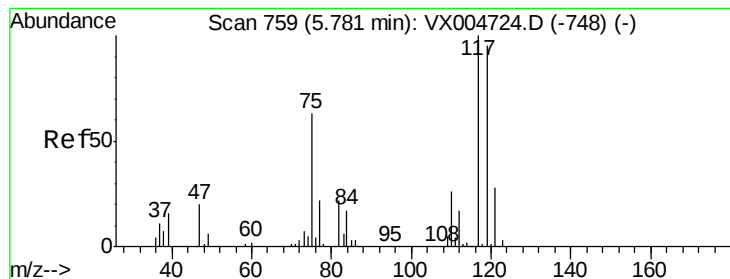


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.182 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ4-TB2

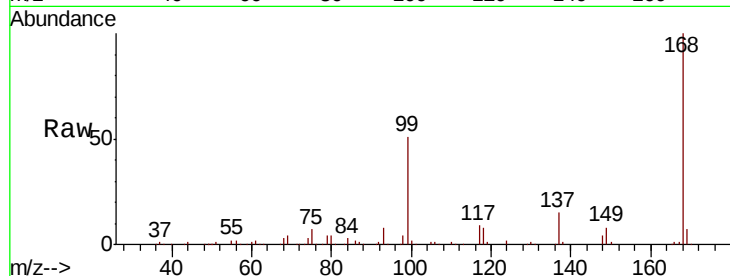
Tot Ion: 117 Resp: 19831

Ion Ratio Lower Upper

117 100

119 7.8 75.2 112.8#

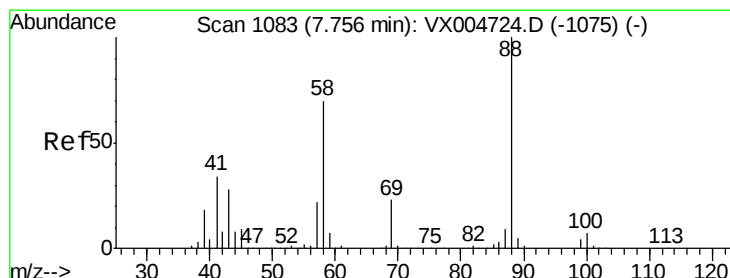
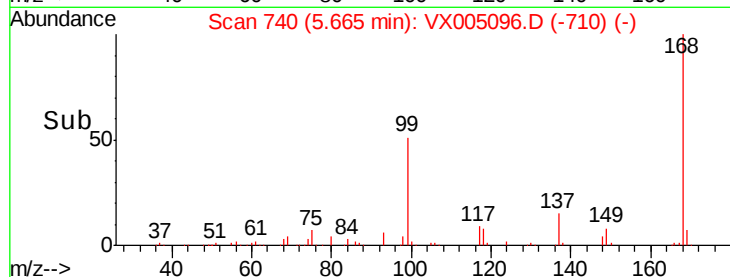
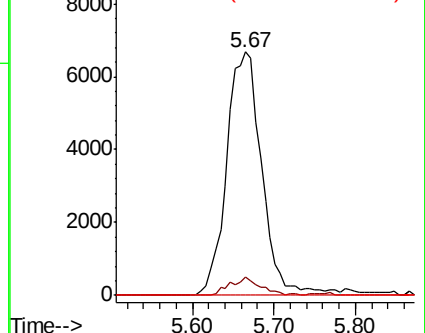
121 0.0 22.5 33.7#



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



#49

1,4-Dioxane

Concen: 0.292 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

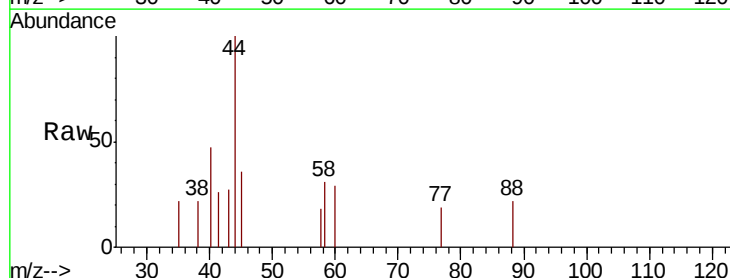
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

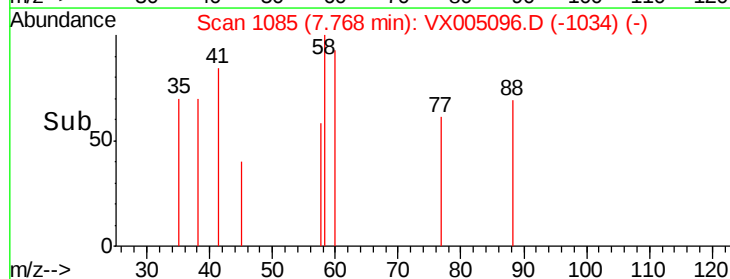
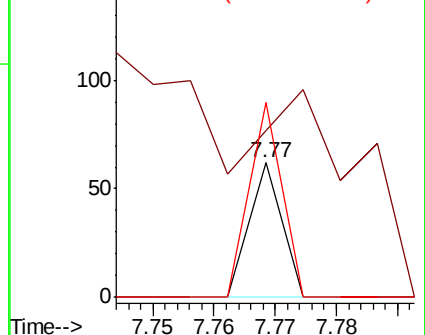
58 143.5 56.2 84.2#

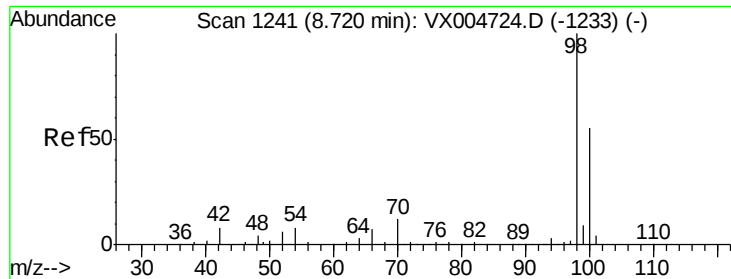


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.856 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

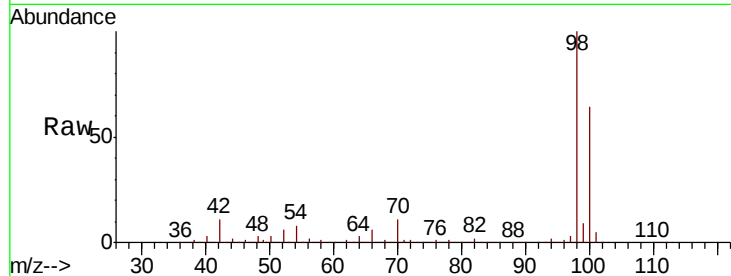
FA18-GMZ4-TB2

Tot Ion: 98 Resp: 460041

Ion Ratio Lower Upper

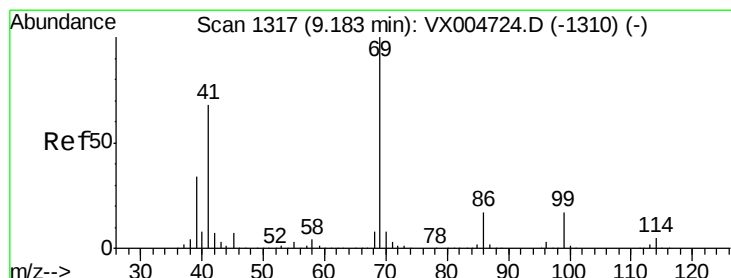
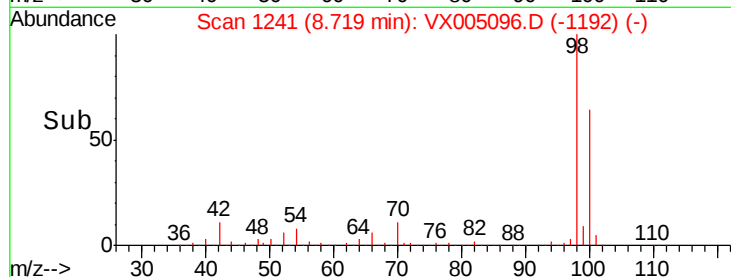
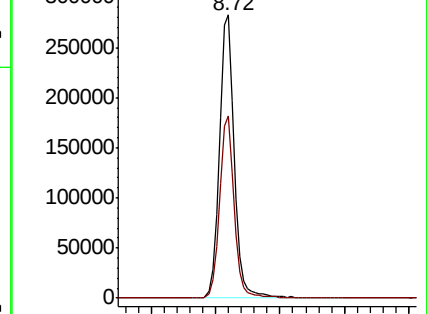
98 100

100 63.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.19 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

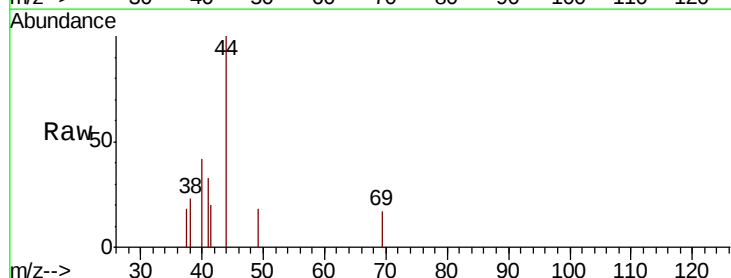
Tgt Ion: 69 Resp: 20

Ion Ratio Lower Upper

69 100

41 1040.0 56.9 85.3#

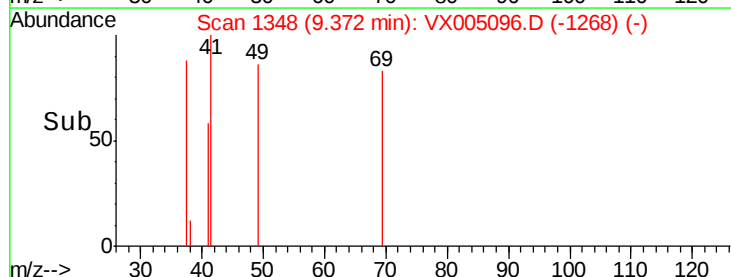
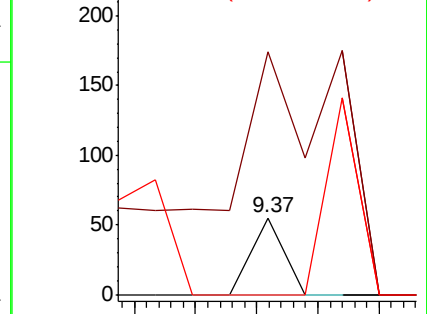
39 260.0 28.4 42.6#

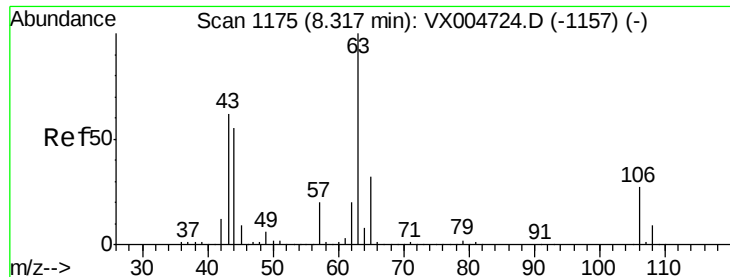


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

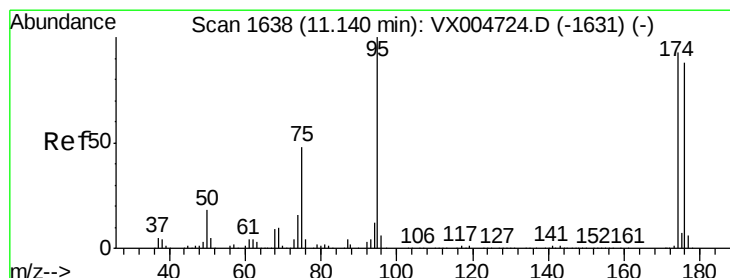
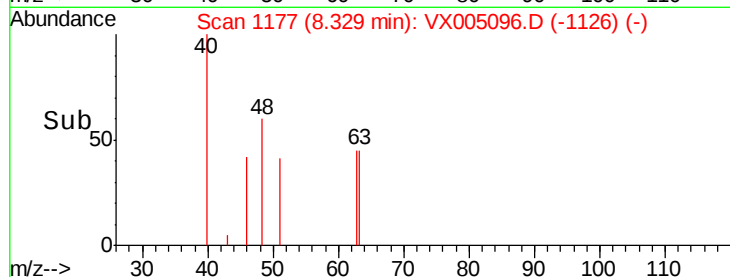
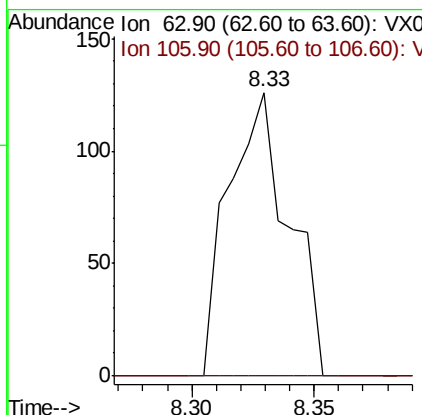
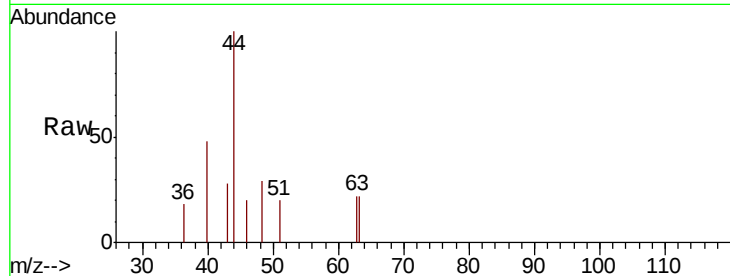




#58
2-Chloroethyl Vinyl ether
Concen: 14.329 ug/l
RT: 8.33 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

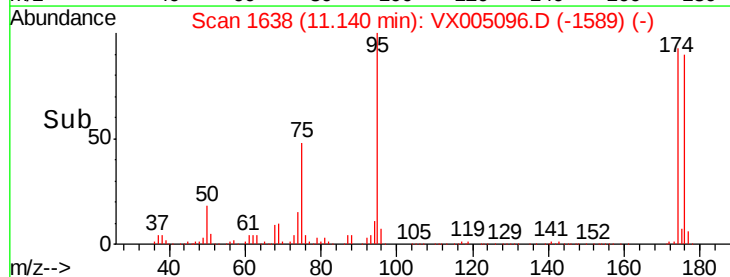
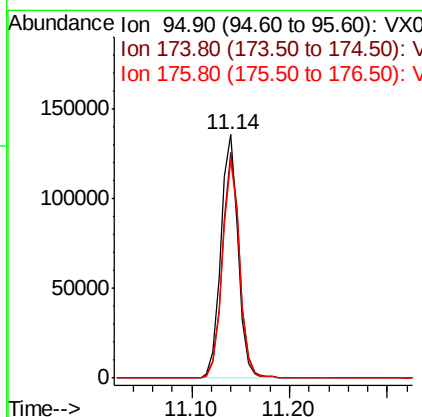
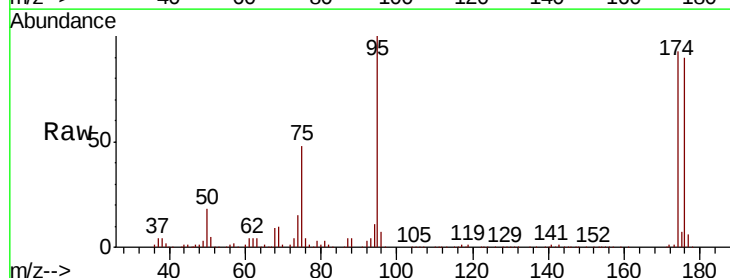
Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ4-TB2

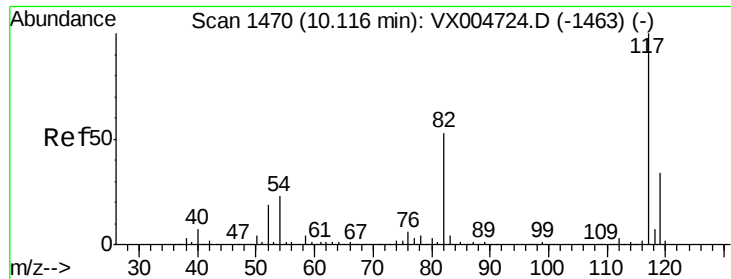
Tot Ion: 63 Resp: 217
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.6#



#62
4-Bromofluorobenzene
Concen: 52.085 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Tgt Ion: 95 Resp: 166463
Ion Ratio Lower Upper
95 100
174 91.8 0.0 185.0
176 88.6 0.0 180.2

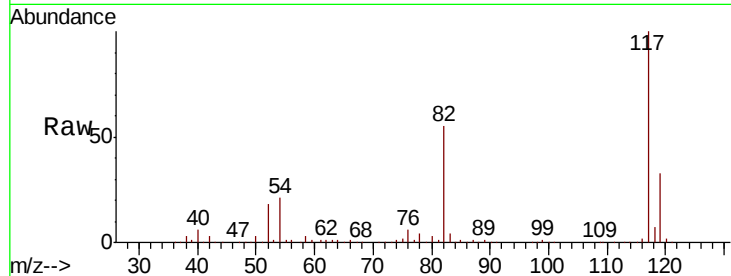




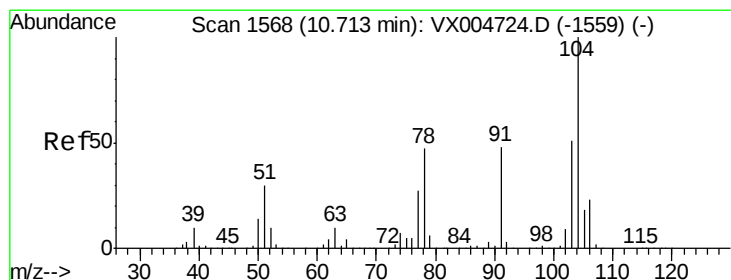
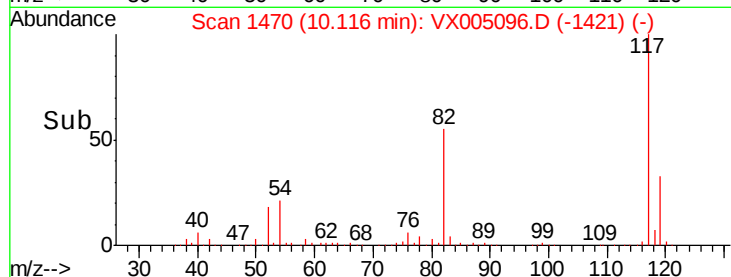
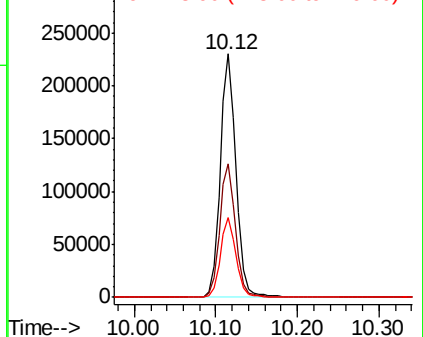
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ4-TB2

Tot Ion:117 Resp: 310461
Ion Ratio Lower Upper
117 100
82 54.6 42.2 63.4
119 32.9 27.4 41.0

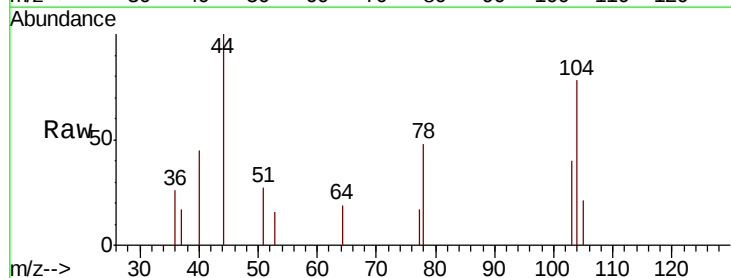


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

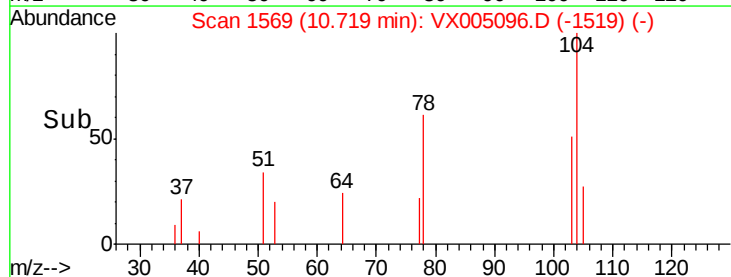
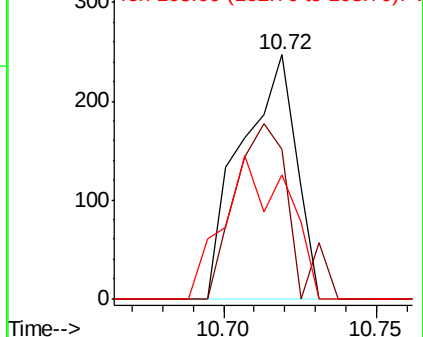


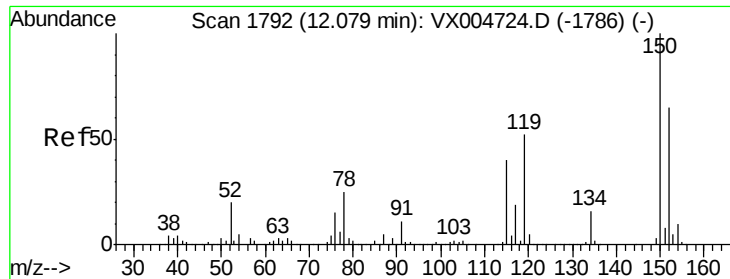
#70
Styrene
Concen: 2.175 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Tgt Ion:104 Resp: 308
Ion Ratio Lower Upper
104 100
78 71.4 40.0 60.0#
103 67.5 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V



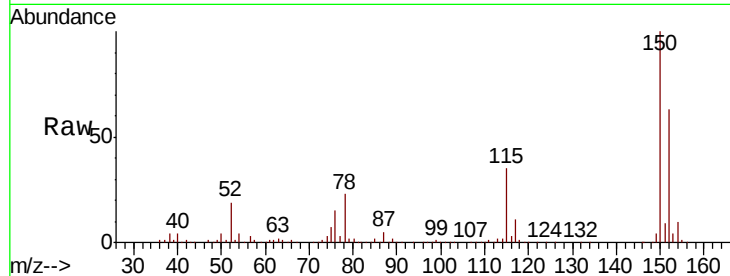


#72

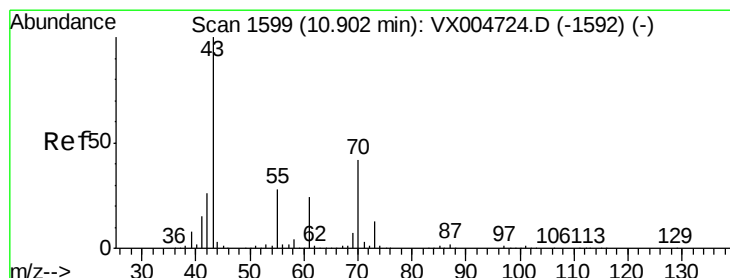
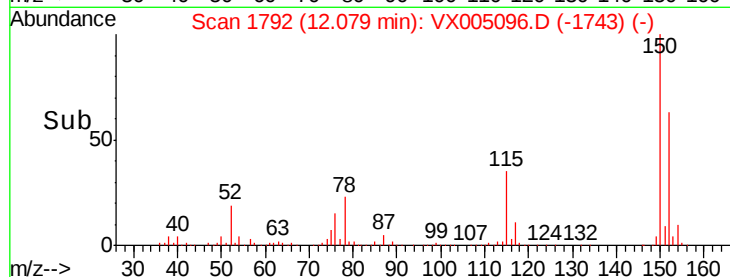
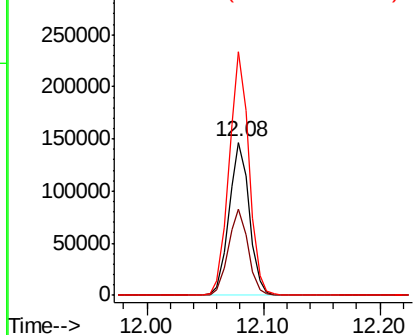
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Instrument :
MSVOA_X
ClientSampleId :
FA18-GMZ4-TB2

Tot Ion:152 Resp: 176931
Ion Ratio Lower Upper
152 100
115 55.2 40.2 120.6
150 156.3 0.0 351.0



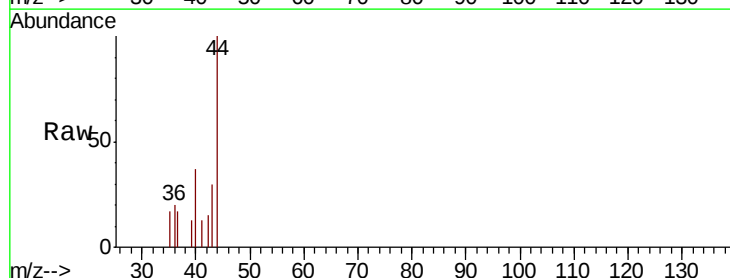
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



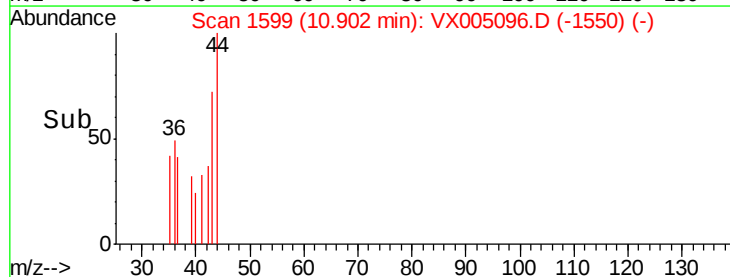
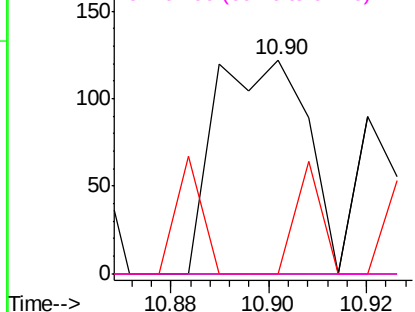
#74

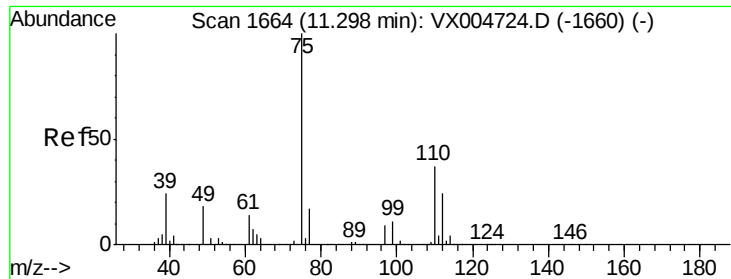
N-ethyl acetate
Concen: 1.773 ug/l
RT: 10.90 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VX005096.D
Acq: 06 Oct 2018 05:32

Tgt Ion: 43 Resp: 159
Ion Ratio Lower Upper
43 100
70 0.0 32.6 48.8#
55 14.5 21.6 32.4#
61 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.616 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

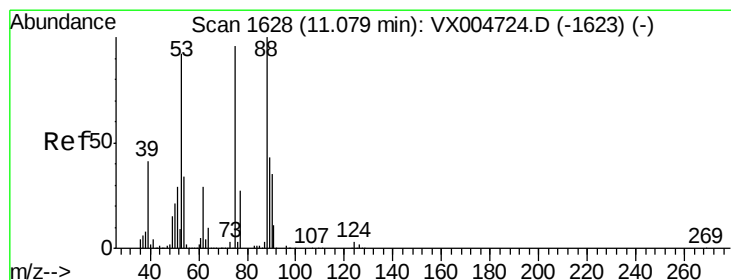
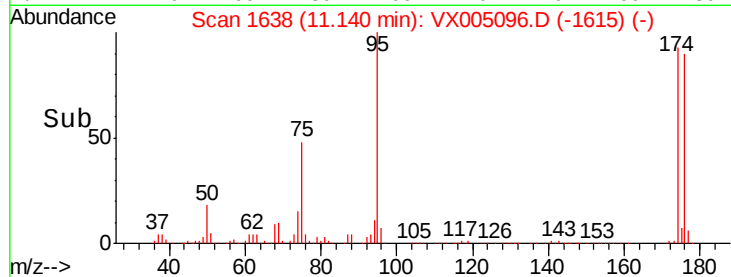
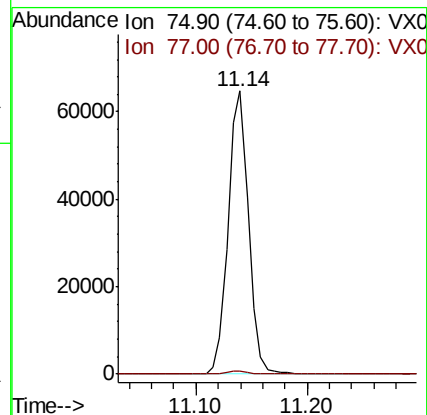
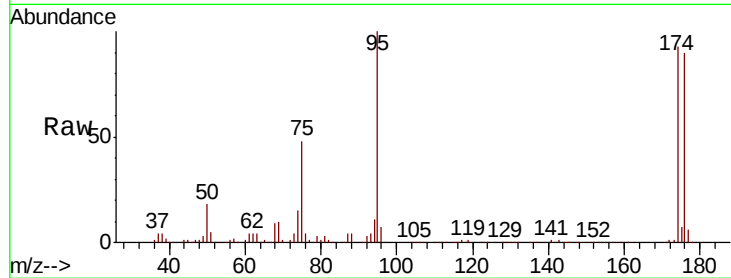
FA18-GMZ4-TB2

Tot Ion: 75 Resp: 81758

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 55.981 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

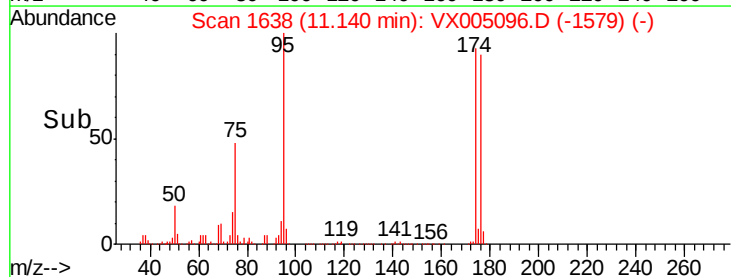
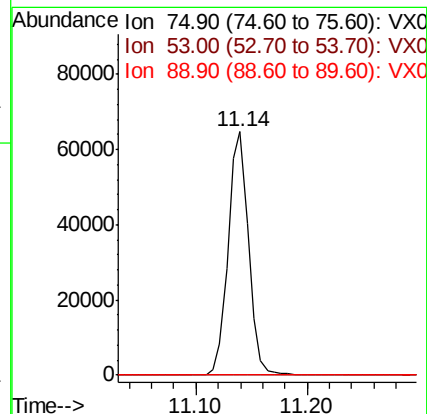
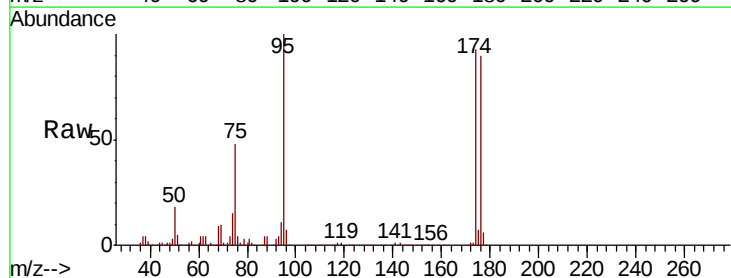
Tgt Ion: 75 Resp: 81758

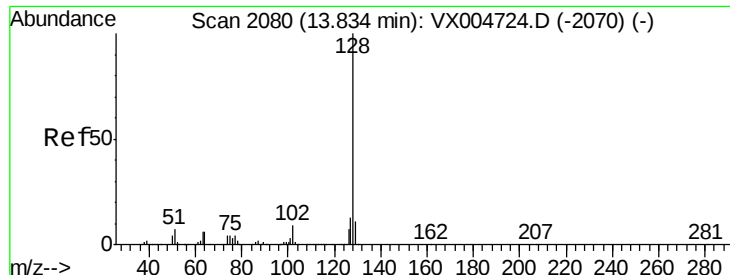
Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.814 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005096.D

Acq: 06 Oct 2018 05:32

Instrument :

MSVOA_X

ClientSampleId :

FA18-GMZ4-TB2

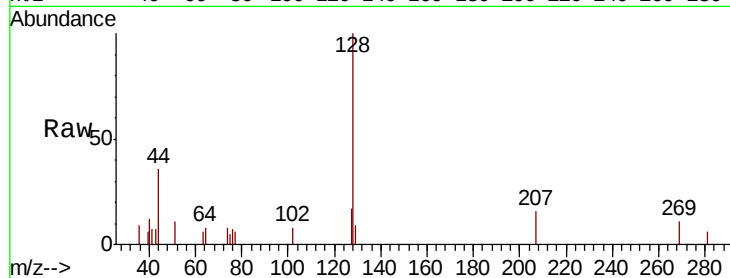
Tot Ion:128 Resp: 1407

Ion Ratio Lower Upper

128 100

127 12.1 10.4 15.6

129 10.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

