

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005480.D
 Acq On : 22 Oct 2018 19:40
 Operator : JC/MD
 Sample : J5605-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-A

Quant Time: Oct 23 01:29:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	239423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	337583	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	140515	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	150031	56.46	ug/l	0.00
Spiked Amount			Recovery	=	112.92%	
35) Dibromofluoromethane	5.51	113	123894	55.41	ug/l	0.00
Spiked Amount			Recovery	=	110.82%	
50) Toluene-d8	8.71	98	394011	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
62) 4-Bromofluorobenzene	11.14	95	128999	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	

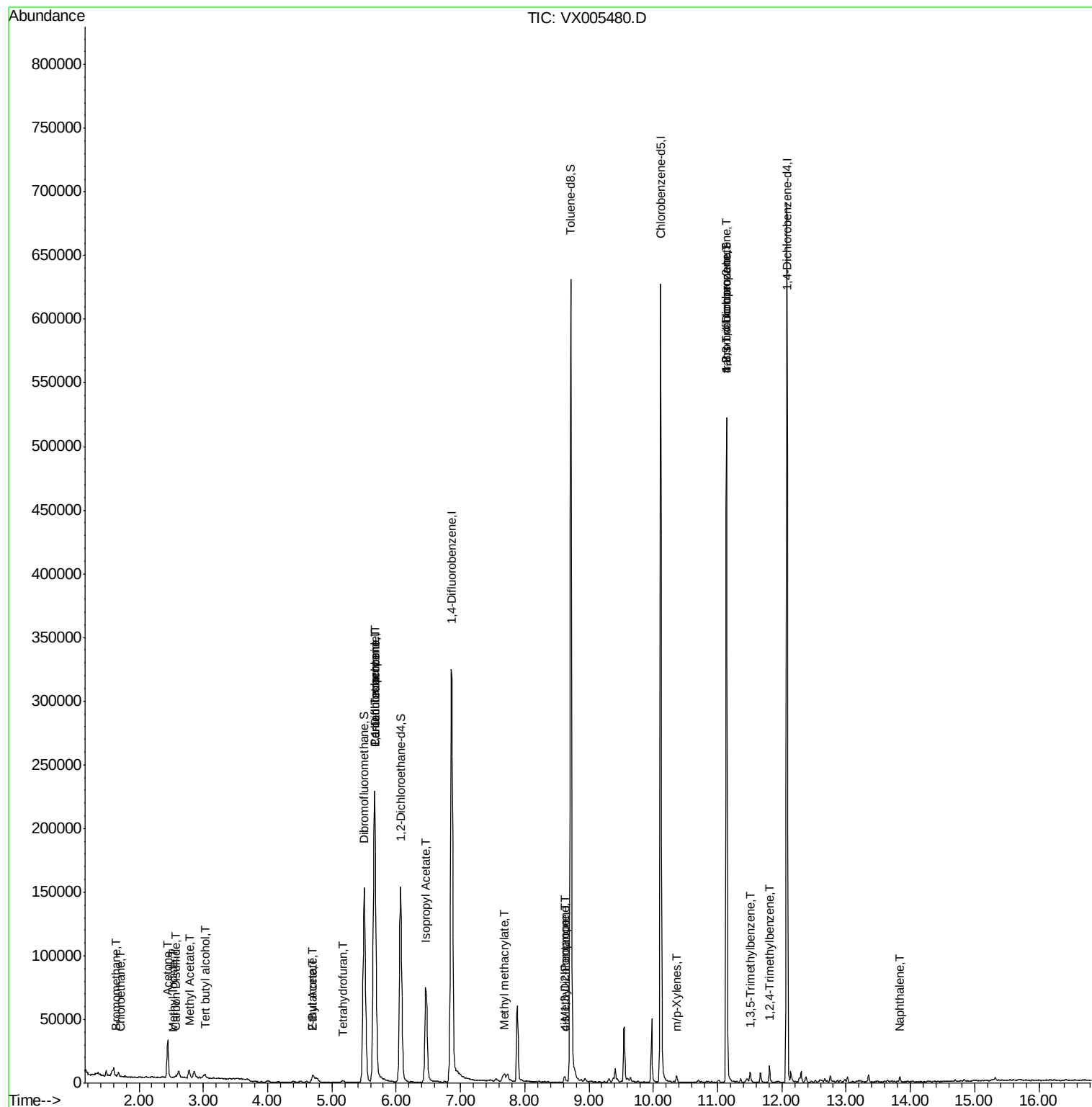
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	229	0.730	ug/l	91
6) Chloroethane	1.71	64	50	0.363	ug/l #	44
10) Methyl Iodide	2.52	142	20	2.497	ug/l #	41
11) Tert butyl alcohol	3.03	59	2101	2.803	ug/l #	81
13) Acrolein	2.29	56	30	Below Cal	#	1
16) Acetone	2.45	43	29535	19.224	ug/l	93
17) Carbon Disulfide	2.57	76	1975	0.311	ug/l	98
18) Methyl Acetate	2.78	43	8086	1.850	ug/l	99
20) Methylene Chloride	2.86	84	2028	Below Cal		94
25) 2-Butanone	4.70	43	10016	4.456	ug/l	98
29) Tetrahydrofuran	5.17	42	1058	0.738	ug/l #	67
36) 1,1-Dichloropropene	5.67	75	16778	5.132	ug/l #	49
37) Ethyl Acetate	4.70	43	10016	2.382	ug/l #	68
38) Carbon Tetrachloride	5.67	117	21874	6.659	ug/l #	16
43) Isopropyl Acetate	6.46	43	103885	18.548	ug/l	95
48) Methyl methacrylate	7.69	41	5646	1.944	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	1489	0.384	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	711	0.206	ug/l #	73
68) m/p-Xylenes	10.36	106	1077	0.272	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	64824	23.783	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	3259	0.456	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	64824	72.266	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	5503	0.748	ug/l	99
95) Naphthalene	13.83	128	2485	0.256	ug/l #	94

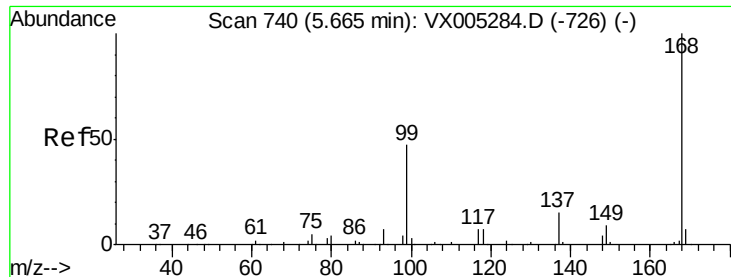
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

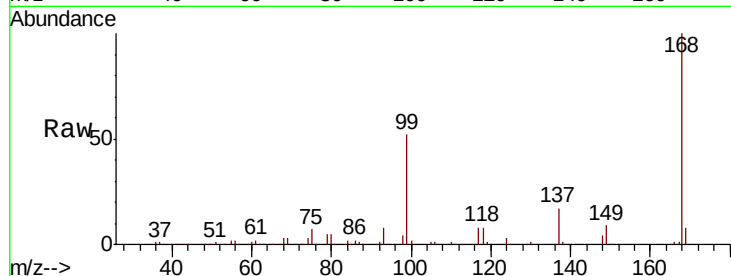
TP-A

Tot Ion:168 Resp: 239423

Ion Ratio Lower Upper

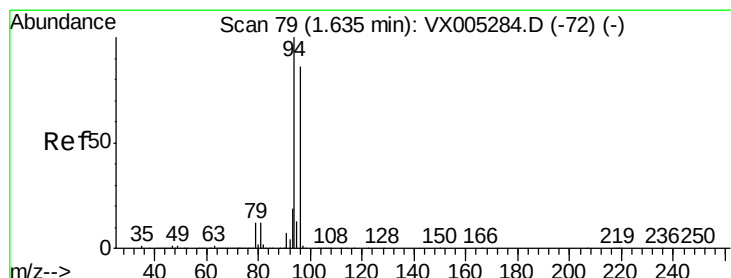
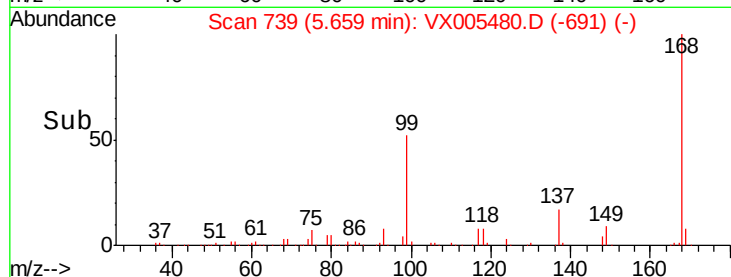
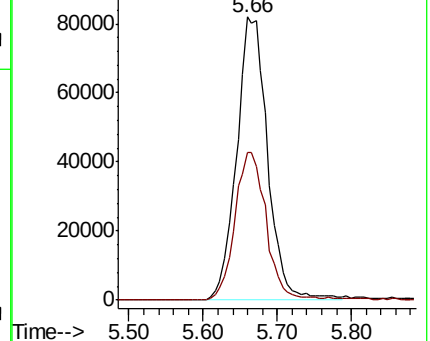
168 100

99 52.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.730 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005480.D

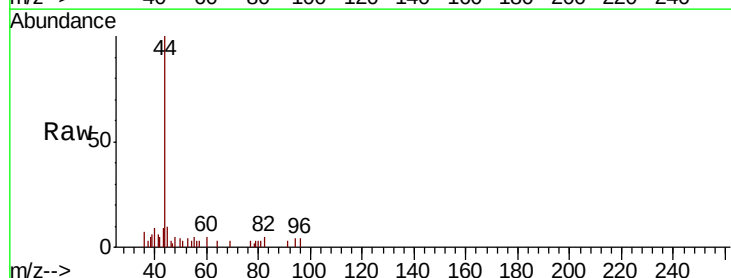
Acq: 22 Oct 2018 19:40

Tgt Ion: 94 Resp: 229

Ion Ratio Lower Upper

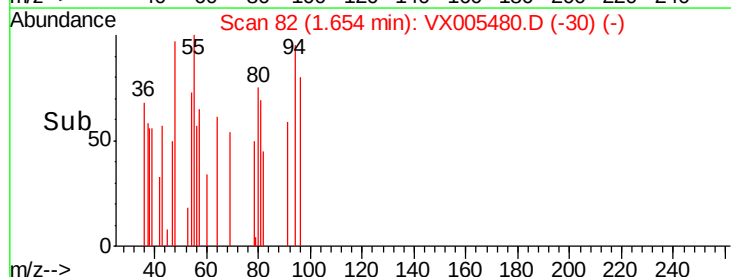
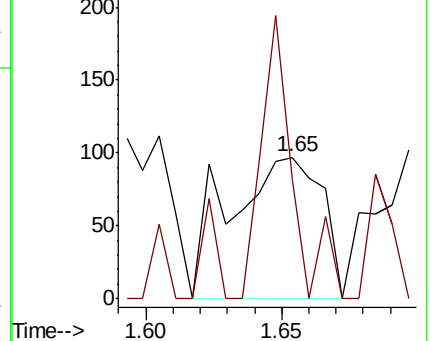
94 100

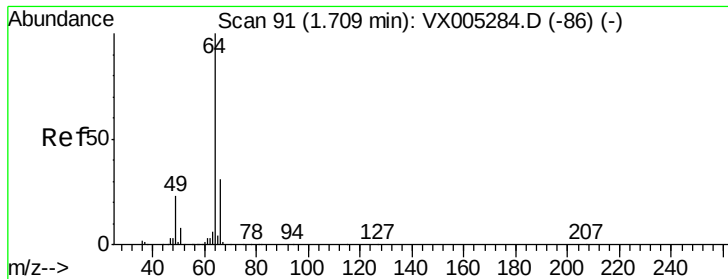
96 84.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.363 ug/l

RT: 1.71 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

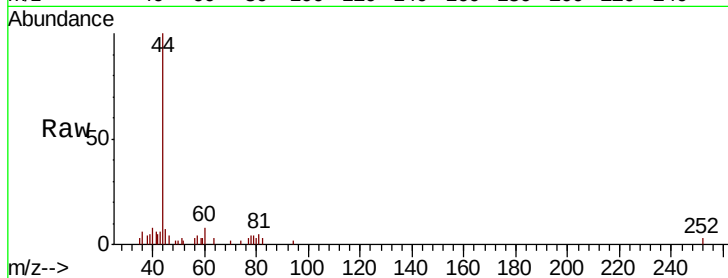
TP-A

Tot Ion: 64 Resp: 50

Ion Ratio Lower Upper

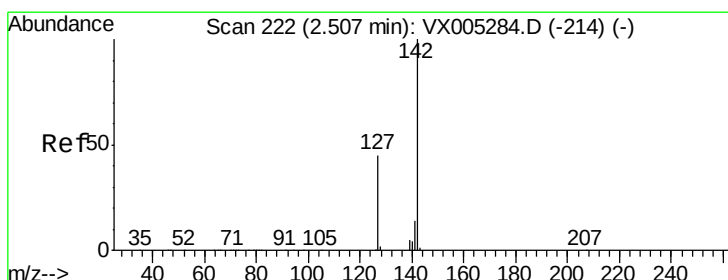
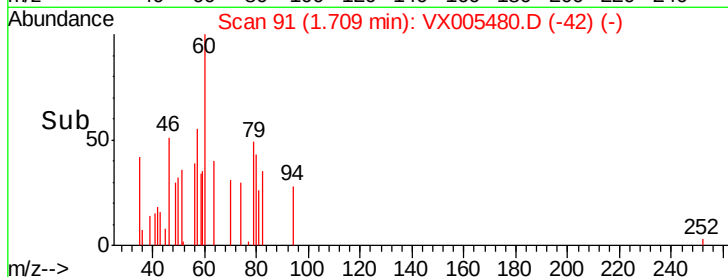
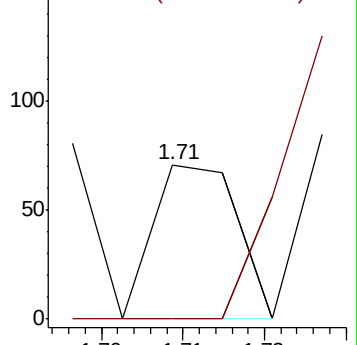
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.497 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

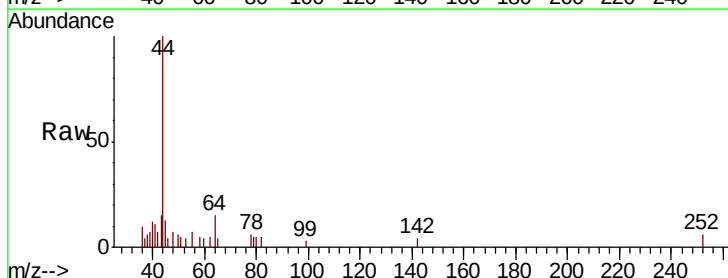
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 33.8 50.6#

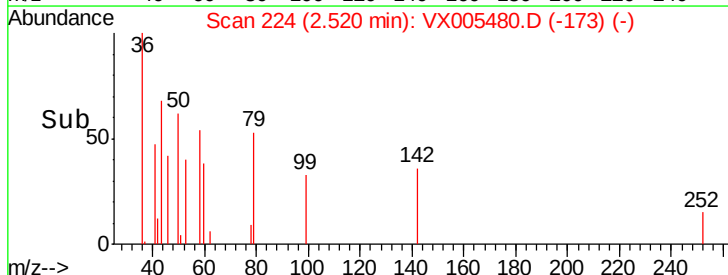
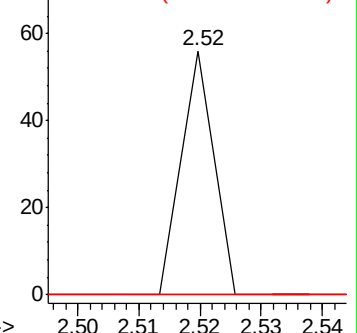
141 0.0 11.4 17.0#

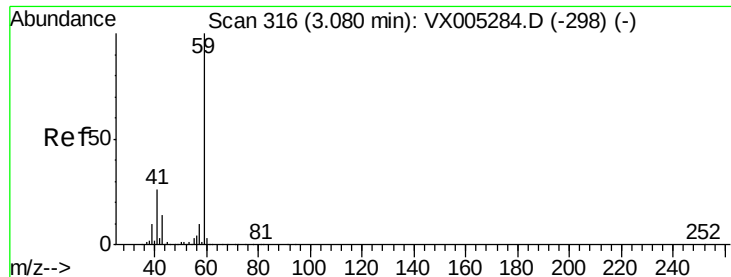


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



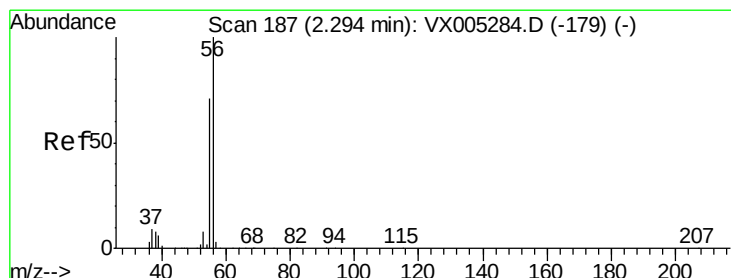
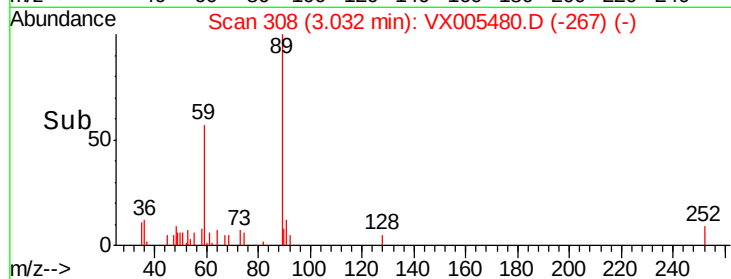
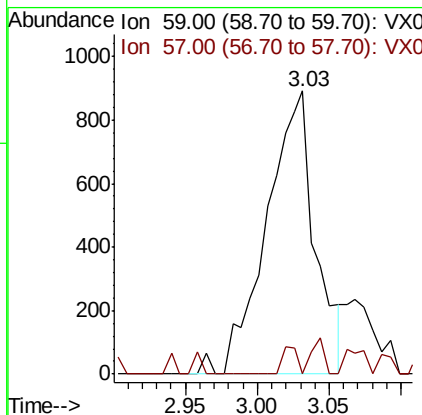
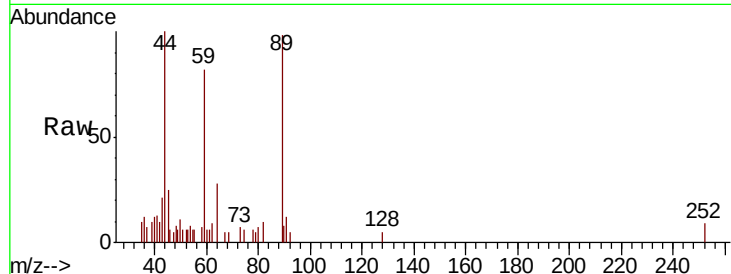


#11

Tert butyl alcohol
 Concen: 2.803 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.05 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-A

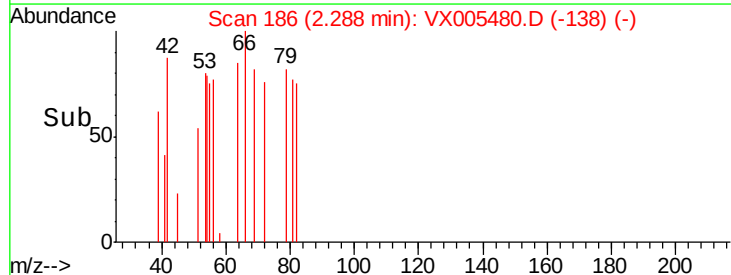
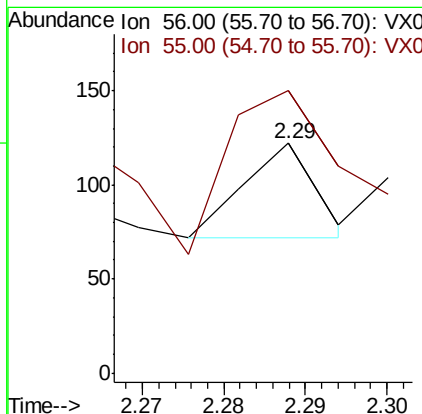
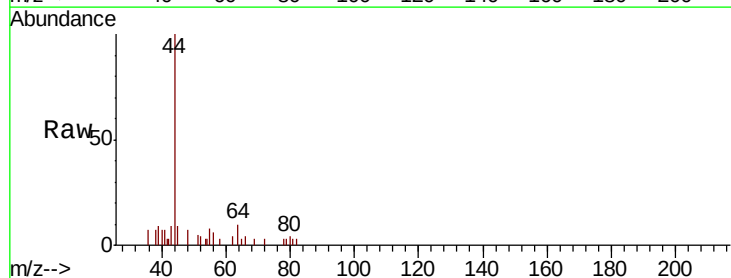
Tot Ion: 59 Resp: 2101
 Ion Ratio Lower Upper
 59 100
 57 3.2 8.2 12.4#

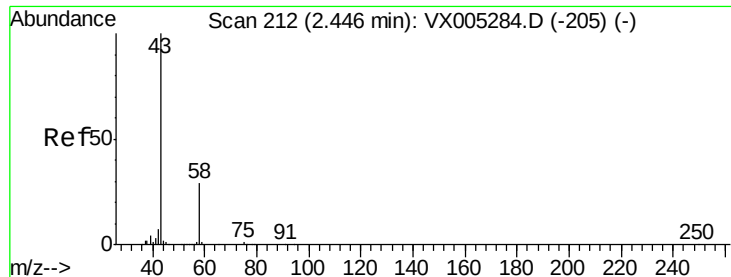


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Tgt Ion: 56 Resp: 30
 Ion Ratio Lower Upper
 56 100
 55 316.7 54.7 82.1#





#16

Acetone

Concen: 19.224 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

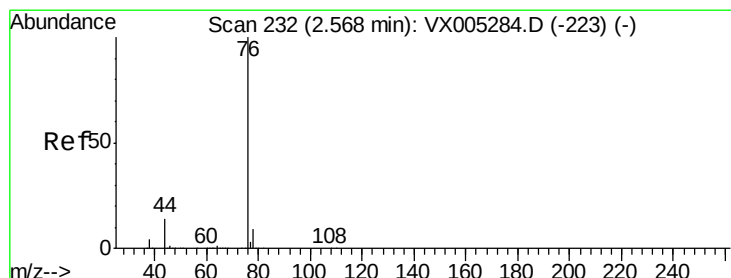
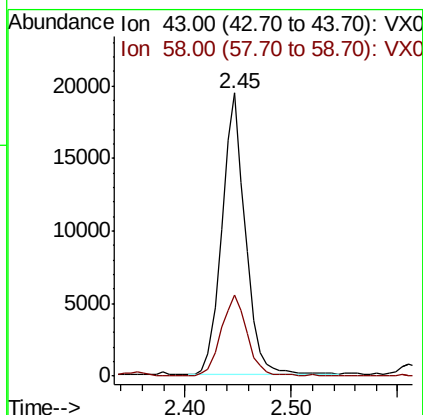
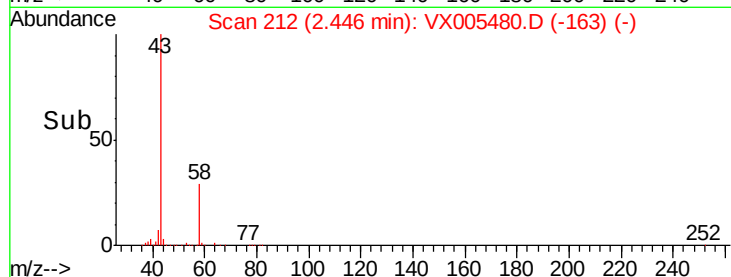
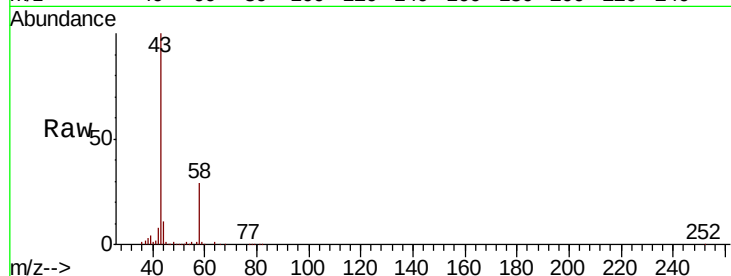
TP-A

Tot Ion: 43 Resp: 29535

Ion Ratio Lower Upper

43 100

58 28.8 26.2 39.4



#17

Carbon Disulfide

Concen: 0.311 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005480.D

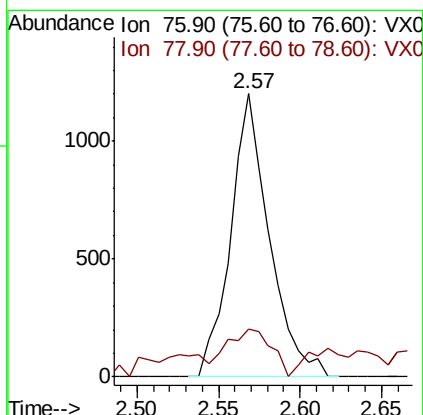
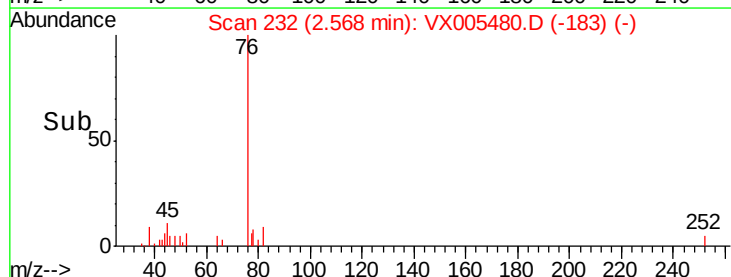
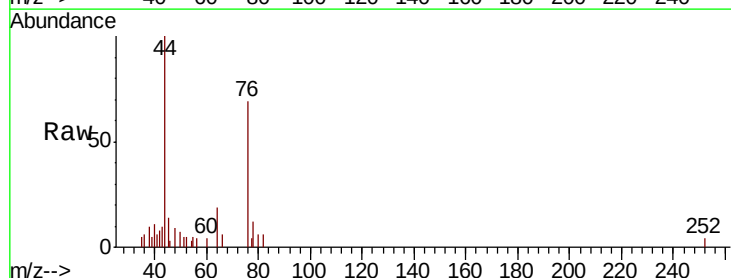
Acq: 22 Oct 2018 19:40

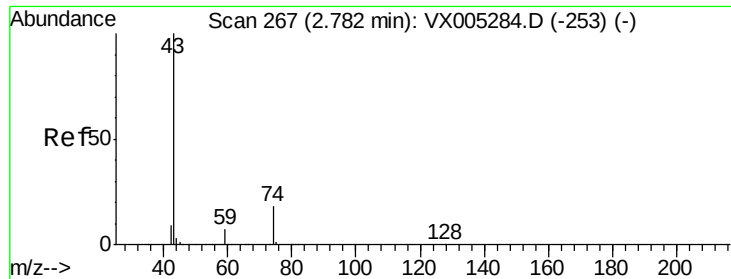
Tgt Ion: 76 Resp: 1975

Ion Ratio Lower Upper

76 100

78 9.6 7.0 10.6

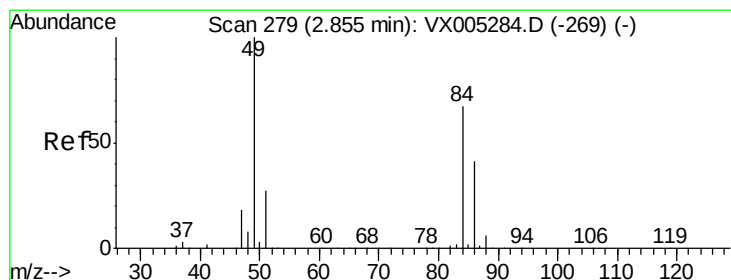
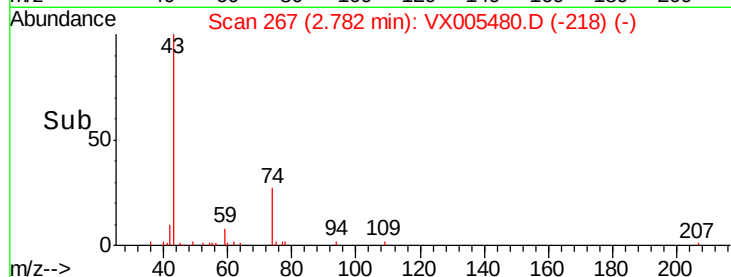
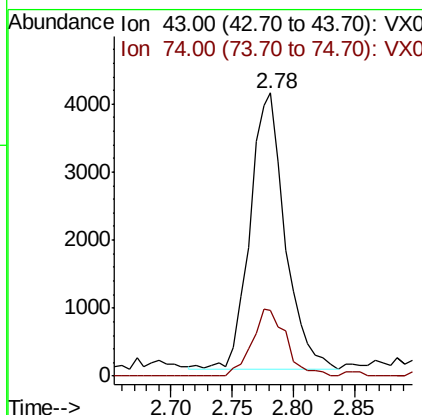
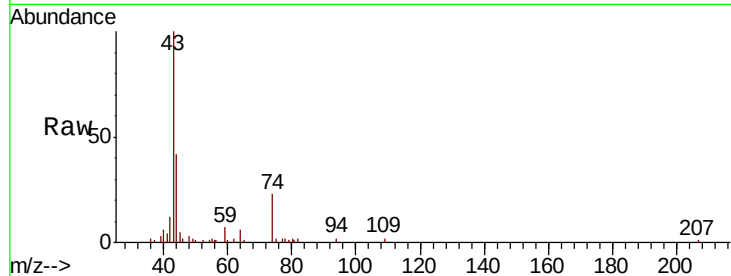




#18
Methyl Acetate
Concen: 1.850 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005480.D
Acq: 22 Oct 2018 19:40

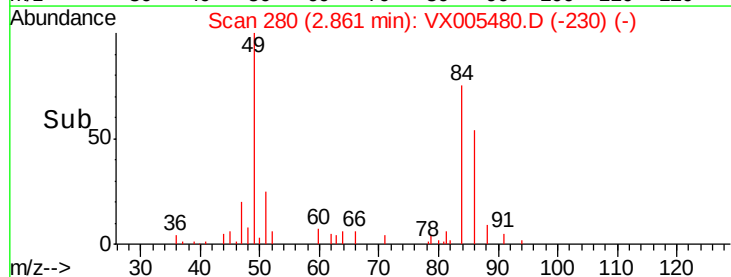
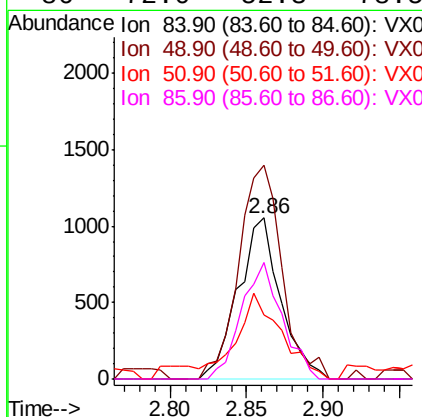
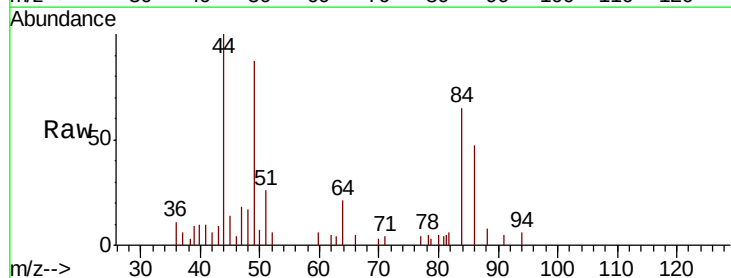
Instrument :
MSVOA_X
ClientSampleId :
TP-A

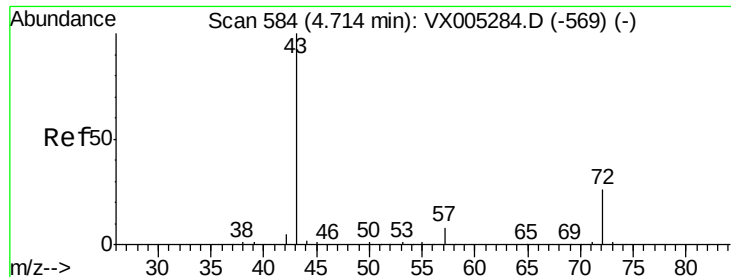
Tot Ion: 43 Resp: 8086
Ion Ratio Lower Upper
43 100
74 23.7 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005480.D
Acq: 22 Oct 2018 19:40

Tgt Ion: 84 Resp: 2028
Ion Ratio Lower Upper
84 100
49 132.7 101.2 151.8
51 39.7 29.5 44.3
86 72.0 52.3 78.5





#25

2-Butanone

Concen: 4.456 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

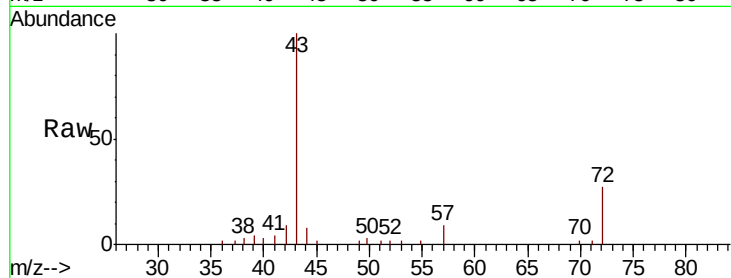
TP-A

Tot Ion: 43 Resp: 10016

Ion Ratio Lower Upper

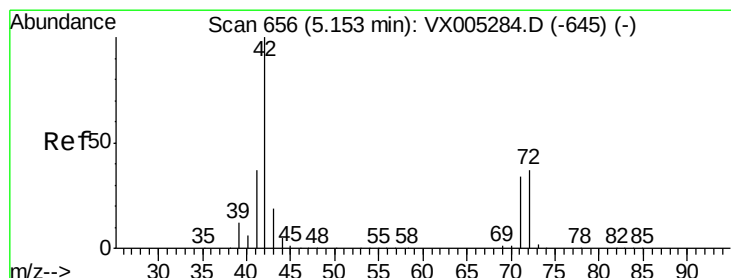
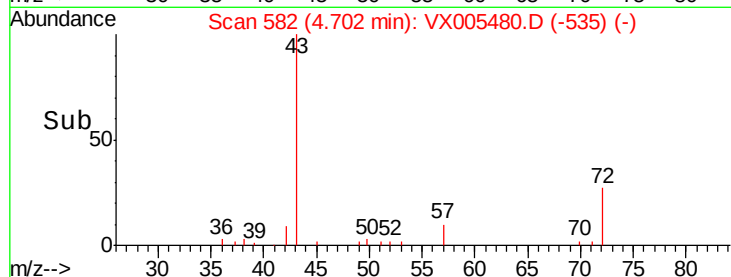
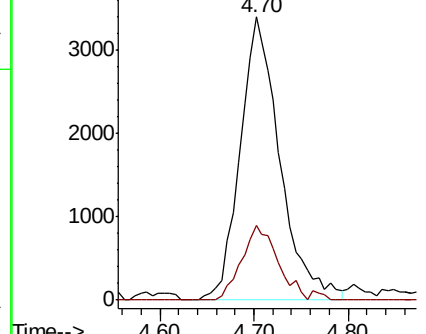
43 100

72 26.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.738 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

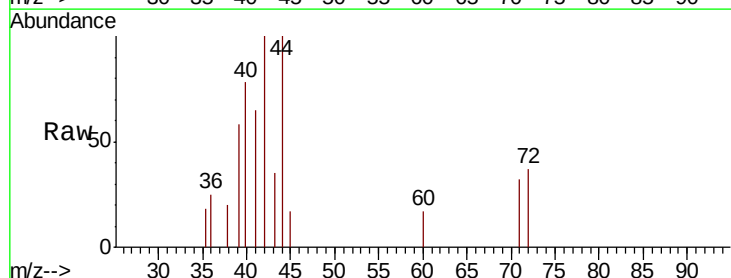
Tgt Ion: 42 Resp: 1058

Ion Ratio Lower Upper

42 100

72 20.3 37.4 56.0#

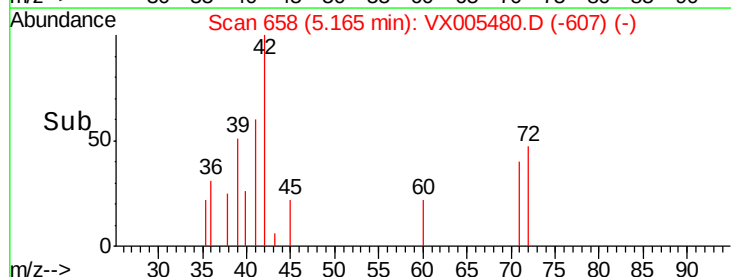
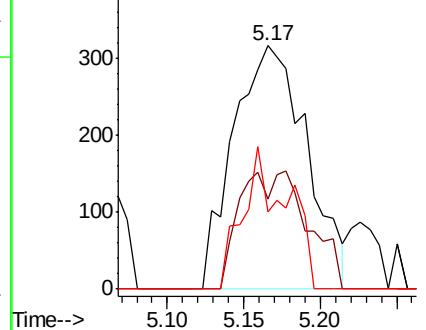
71 26.7 34.5 51.7#

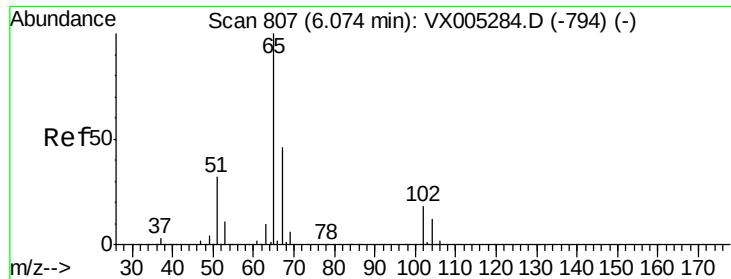


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

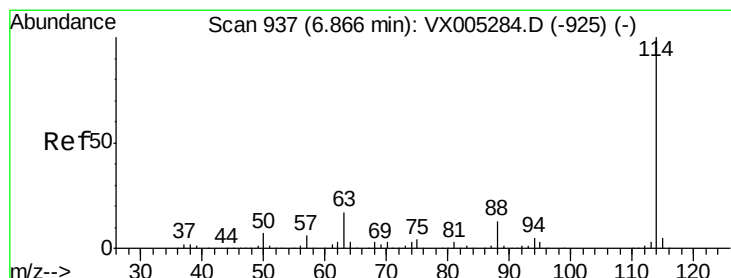
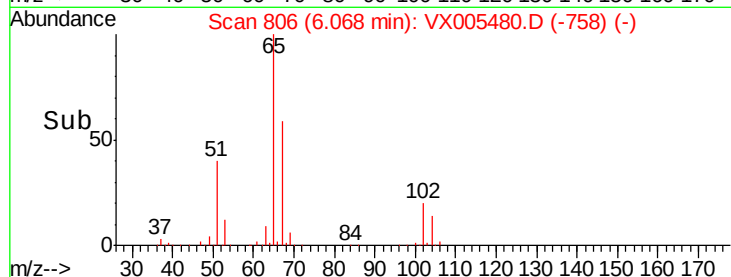
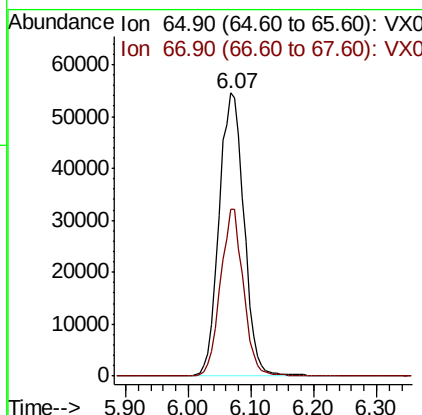
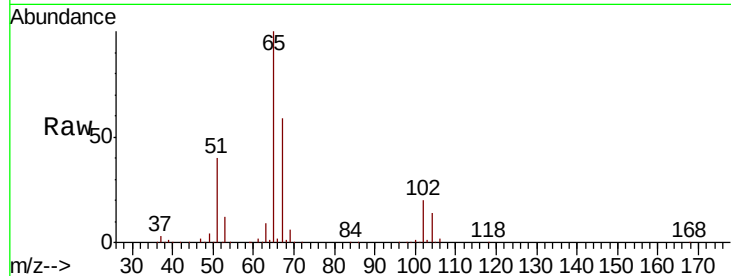




#33
 1,2-Dichloroethane-d4
 Concen: 56.461 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

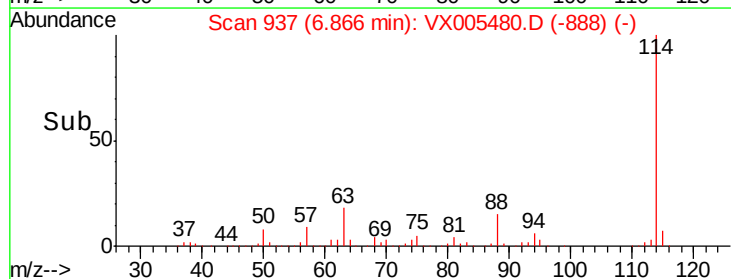
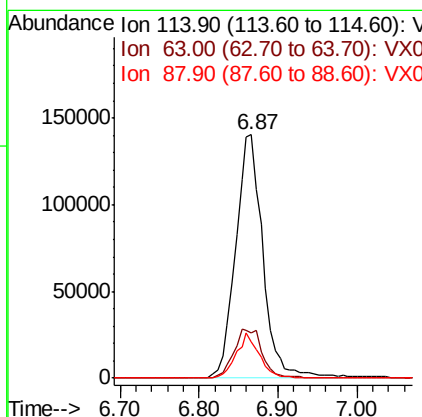
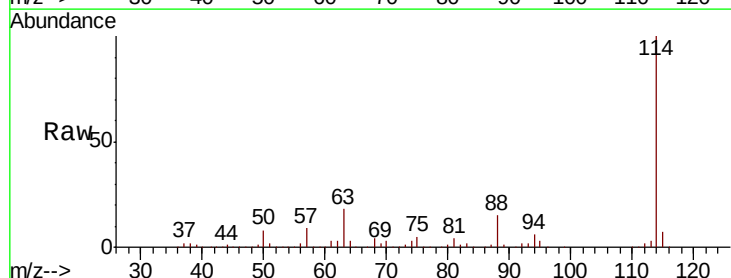
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-A

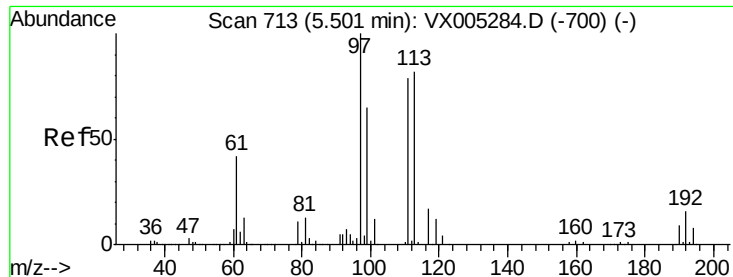
Tot Ion: 65 Resp: 150031
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.00 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Tgt Ion: 114 Resp: 337583
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 39.0
 88 15.0 0.0 30.4

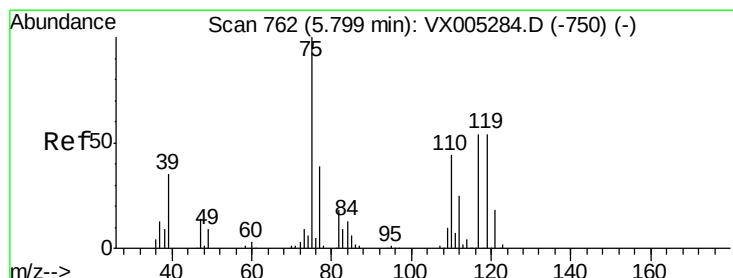
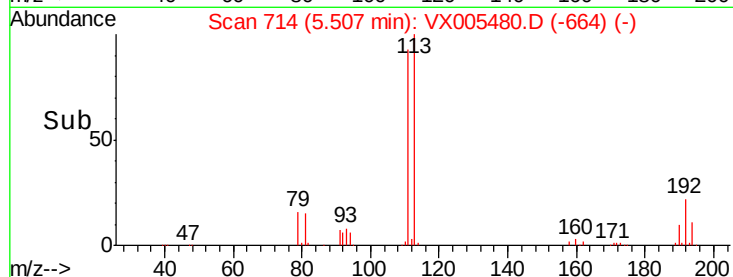
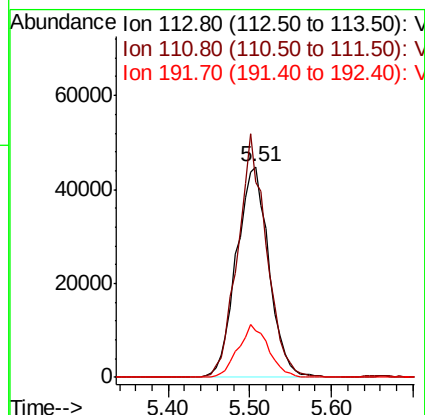
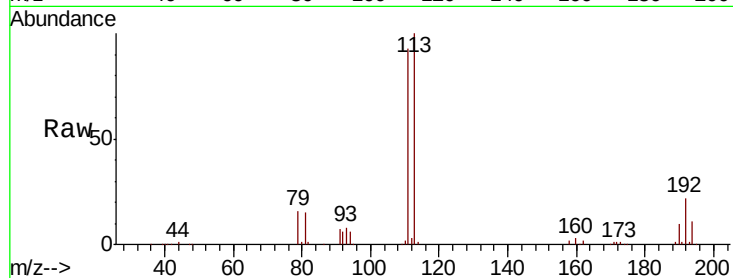




#35
 Dibromofluoromethane
 Concen: 55.411 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

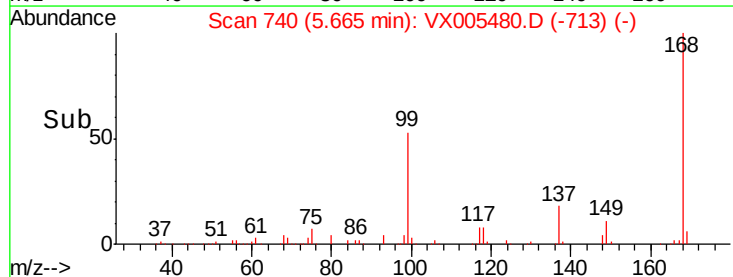
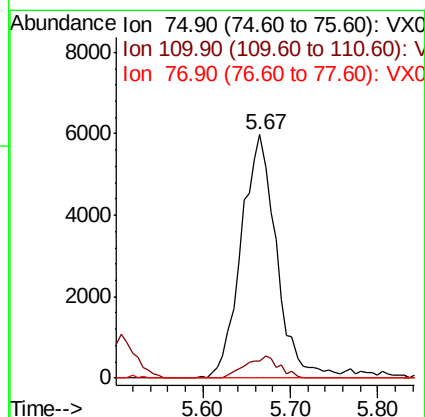
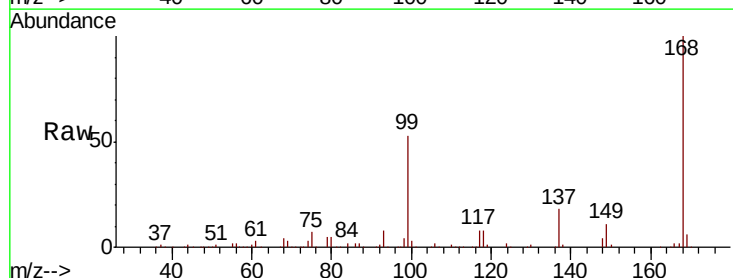
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-A

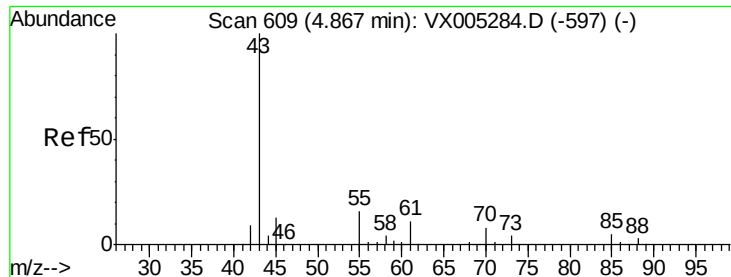
Tot Ion:113 Resp: 123894
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.4 123.6
 192 23.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 5.132 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Tgt Ion: 75 Resp: 16778
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.0 54.0#
 77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 2.382 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.16 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

TP-A

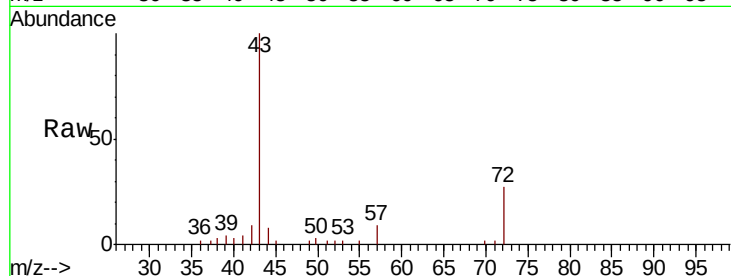
Tot Ion: 43 Resp: 10016

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

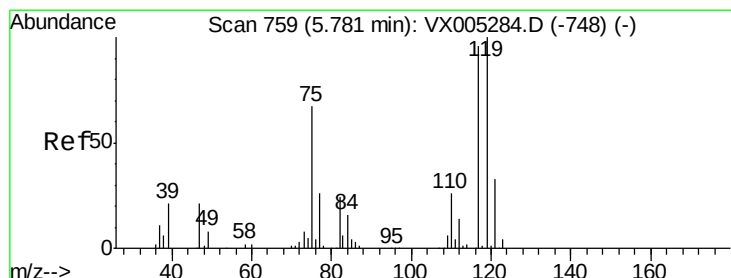
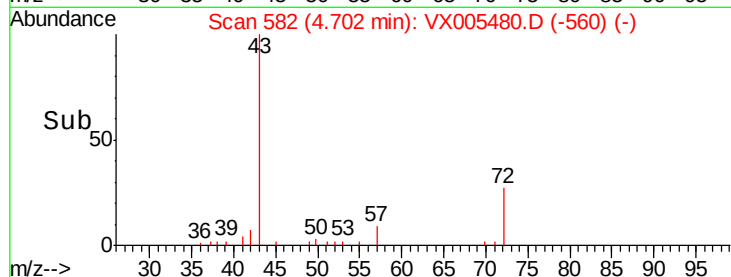
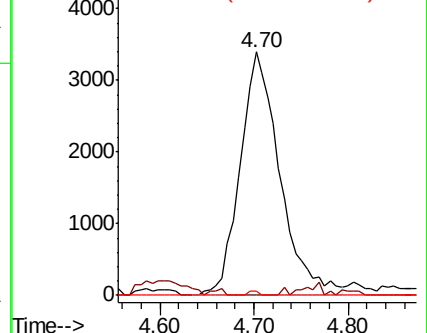
70 0.4 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.659 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

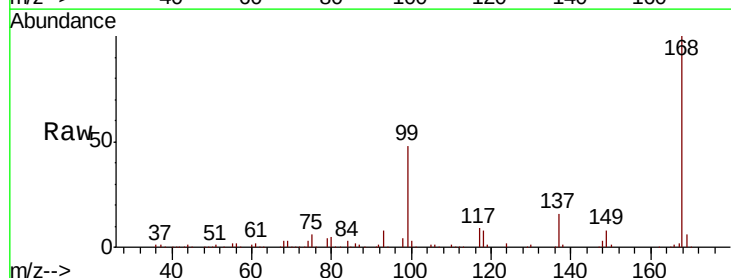
Tgt Ion: 117 Resp: 21874

Ion Ratio Lower Upper

117 100

119 6.1 78.8 118.2#

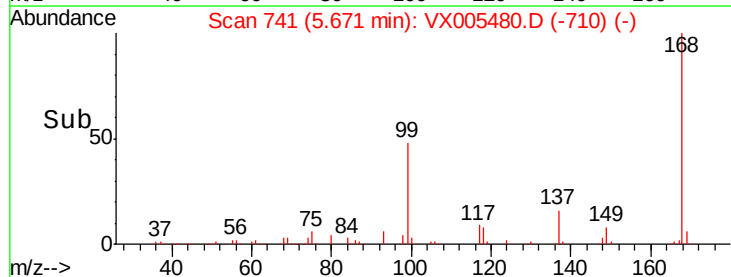
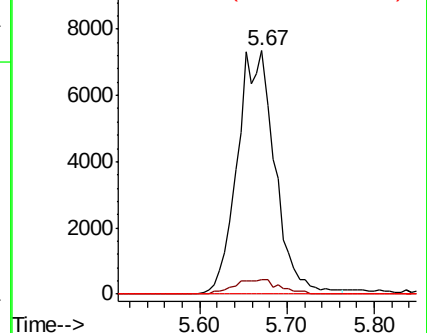
121 0.0 24.9 37.3#

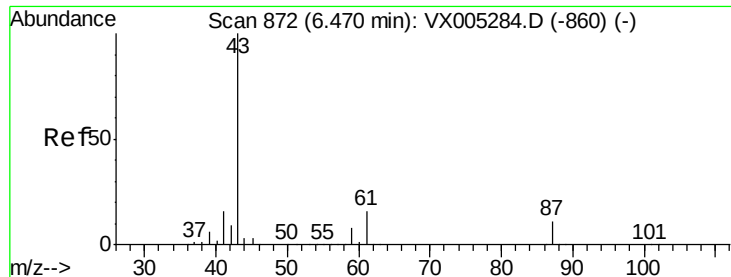


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 18.548 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

TP-A

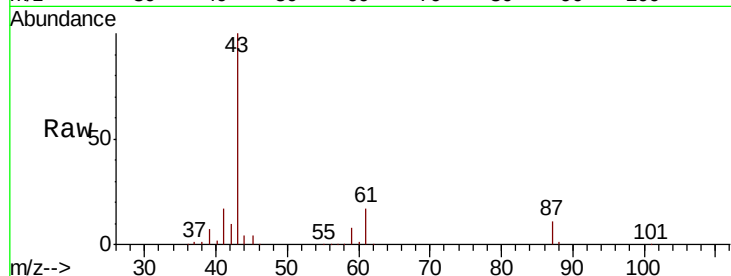
Tot Ion: 43 Resp: 103885

Ion Ratio Lower Upper

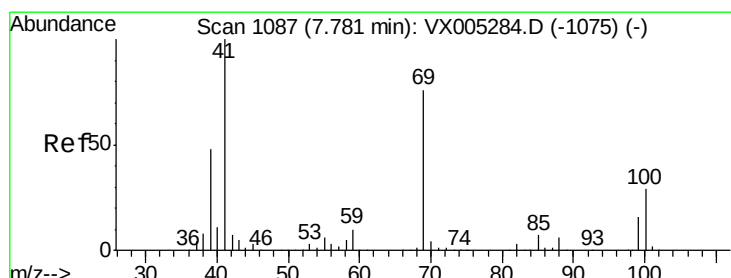
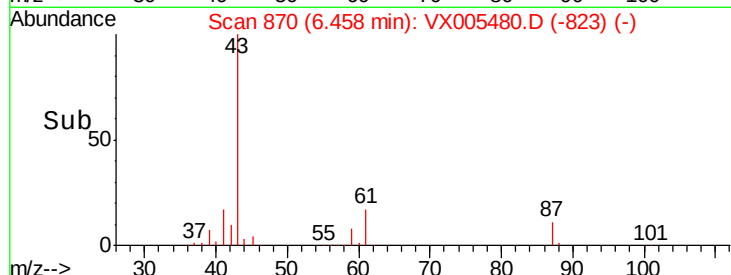
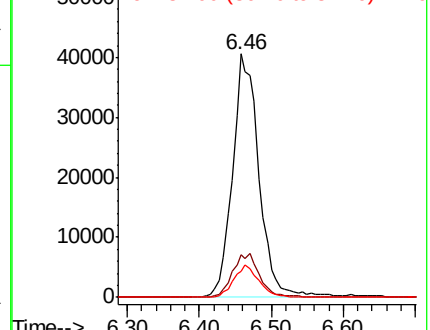
43 100

61 18.4 17.0 25.4

87 12.4 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.944 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

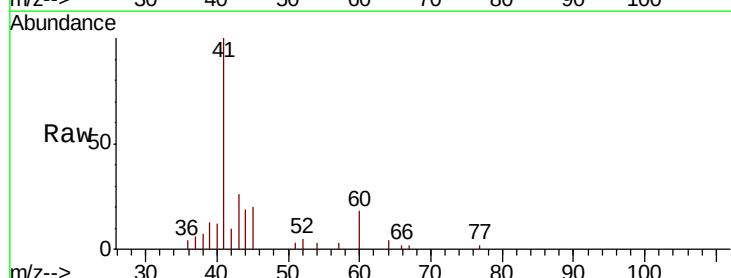
Tgt Ion: 41 Resp: 5646

Ion Ratio Lower Upper

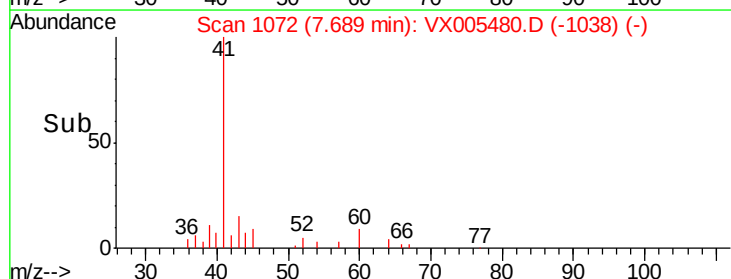
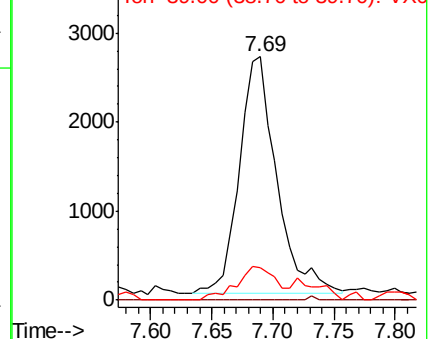
41 100

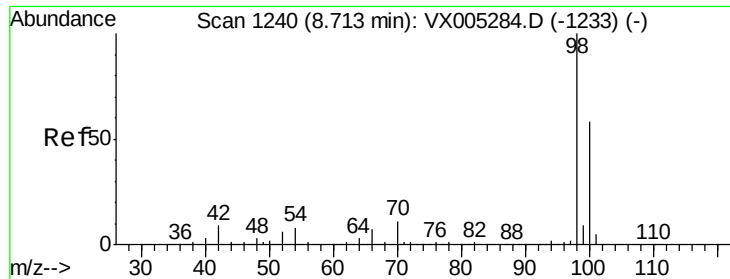
69 0.0 70.2 105.4#

39 14.5 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

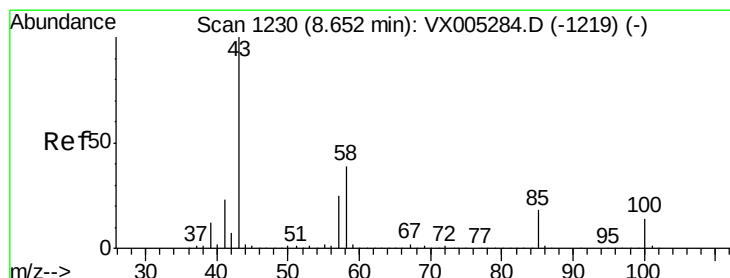
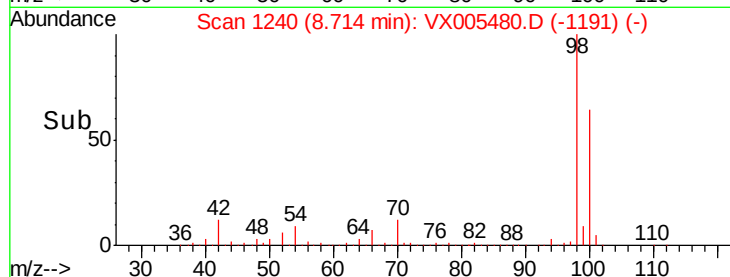
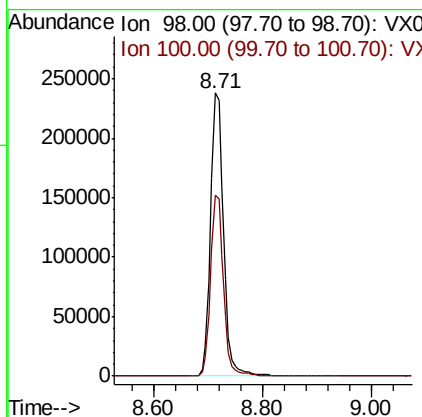
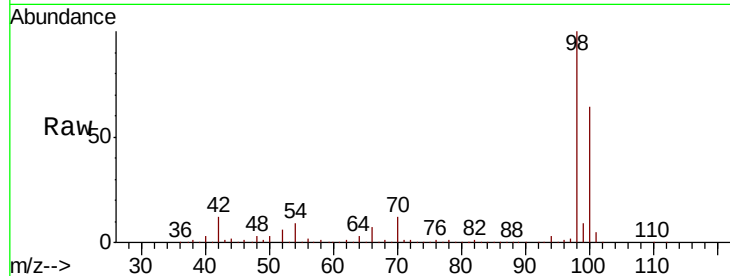




#50
Toluene-d8
Concen: 51.330 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005480.D
Acq: 22 Oct 2018 19:40

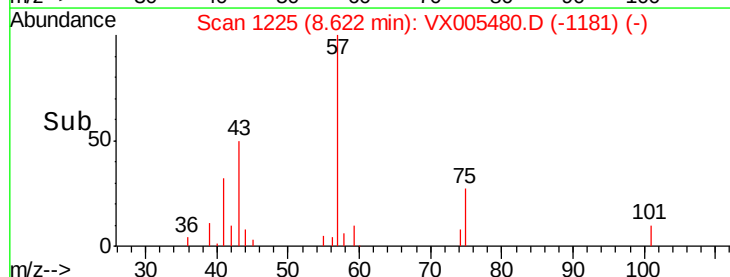
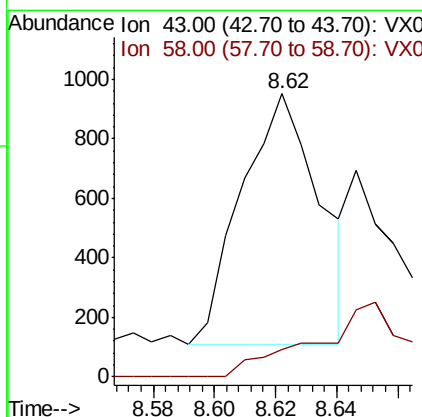
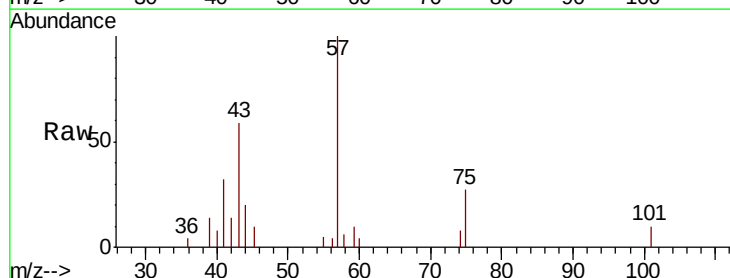
Instrument :
MSVOA_X
ClientSampled :
TP-A

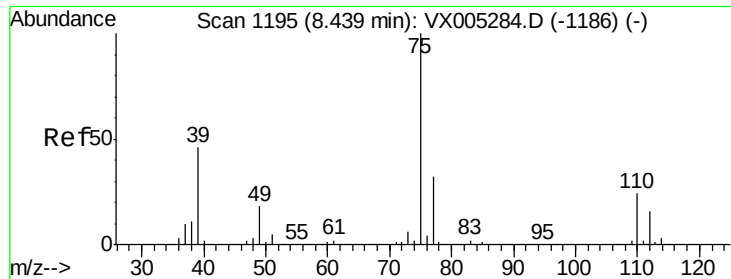
Tot Ion: 98 Resp: 394011
Ion Ratio Lower Upper
98 100
100 63.6 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.384 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005480.D
Acq: 22 Oct 2018 19:40

Tgt Ion: 43 Resp: 1489
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



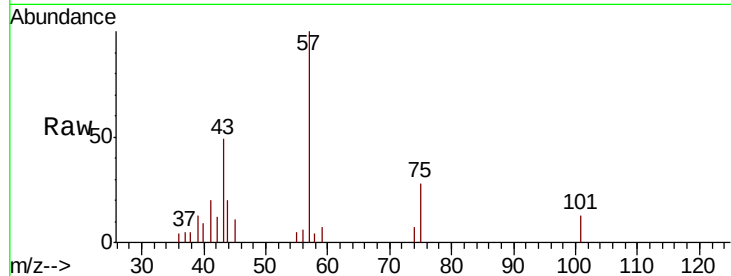


#54

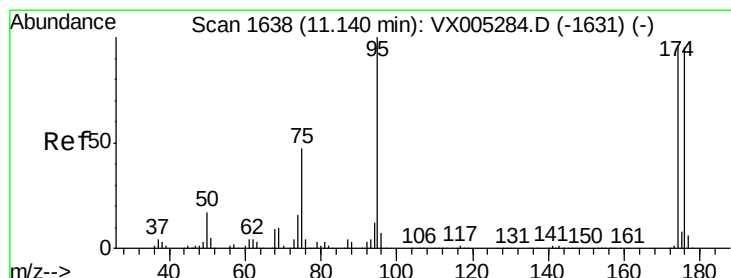
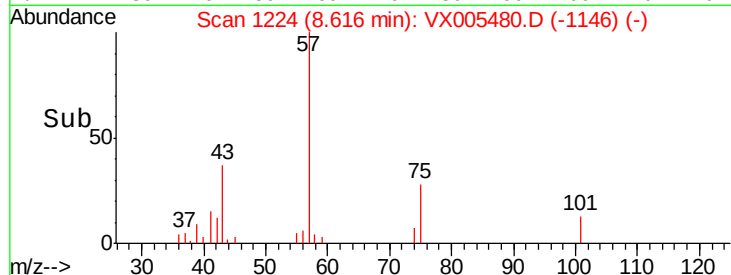
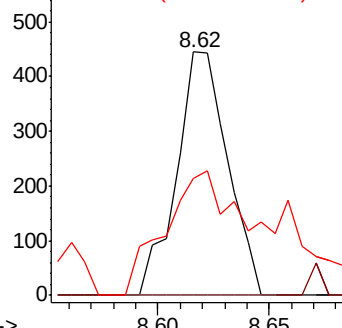
cis-1,3-Dichloropropene
 Concen: 0.206 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-A

Tot Ion: 75 Resp: 711
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 48.1 36.4 54.6



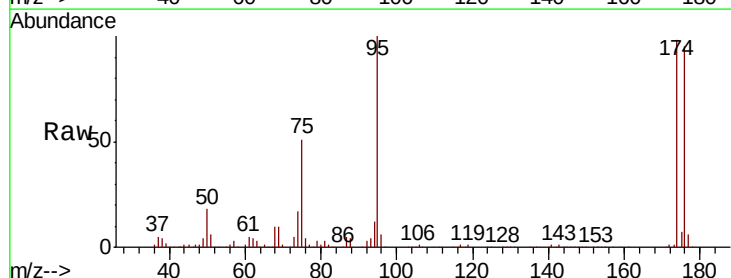
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



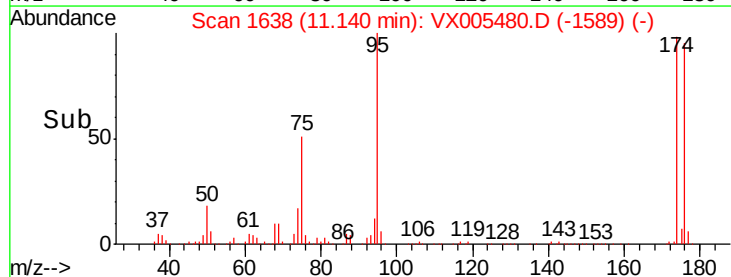
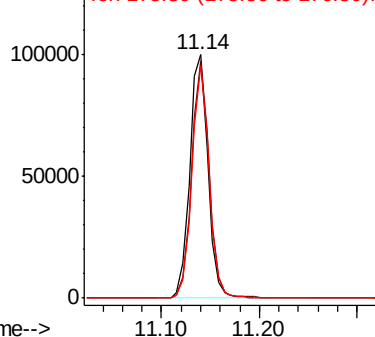
#62

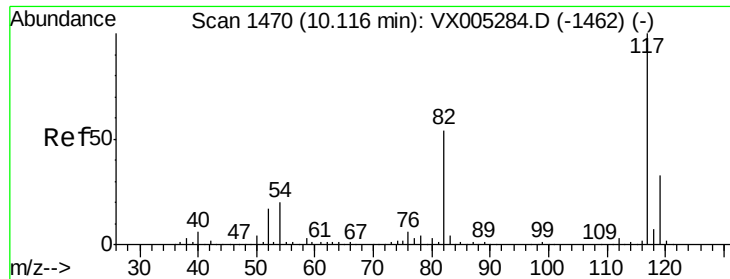
4-Bromofluorobenzene
 Concen: 44.736 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Tgt Ion: 95 Resp: 128999
 Ion Ratio Lower Upper
 95 100
 174 93.8 0.0 185.2
 176 89.7 0.0 178.6



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

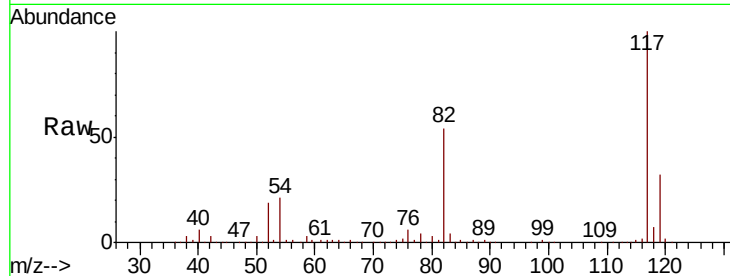




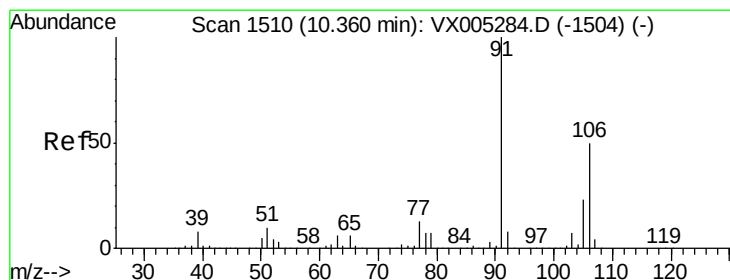
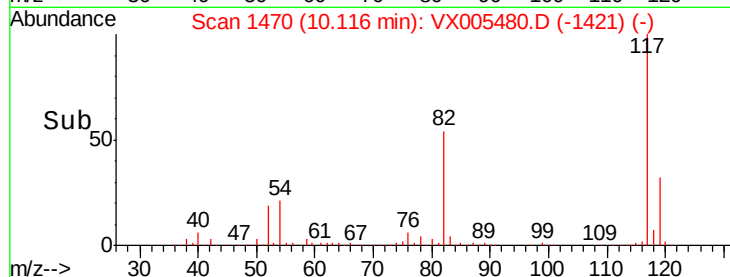
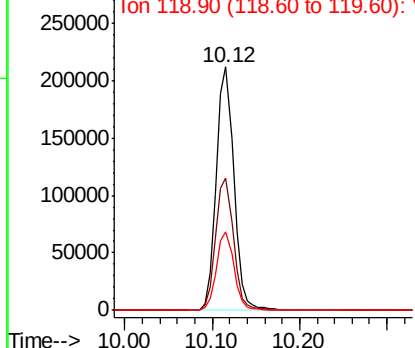
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005480.D
Acq: 22 Oct 2018 19:40

Instrument :
MSVOA_X
ClientSampled :
TP-A

Tot Ion:117 Resp: 295391
Ion Ratio Lower Upper
117 100
82 54.2 47.8 71.6
119 32.3 29.3 43.9

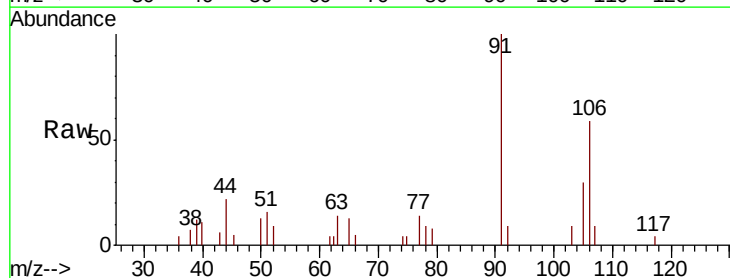


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

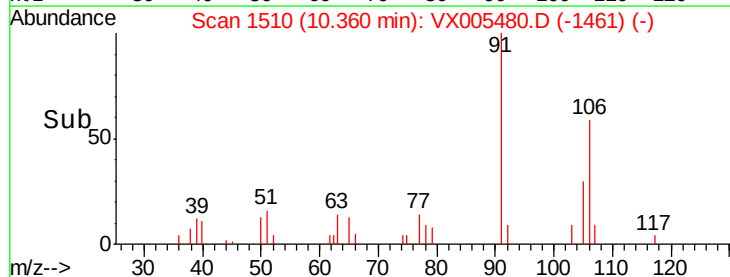
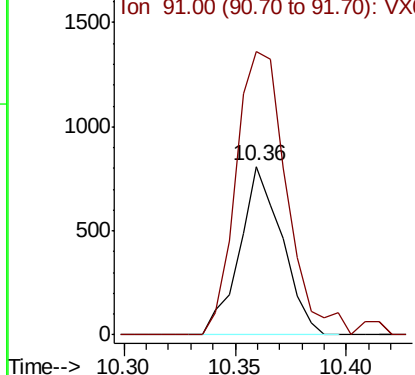


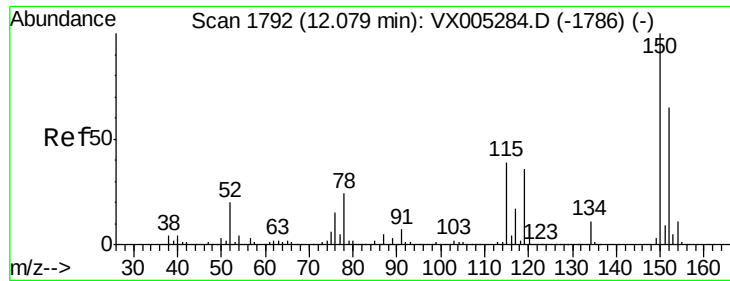
#68
m/p-Xylenes
Concen: 0.272 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX005480.D
Acq: 22 Oct 2018 19:40

Tgt Ion:106 Resp: 1077
Ion Ratio Lower Upper
106 100
91 199.4 157.1 235.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005480.D

Acq: 22 Oct 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

TP-A

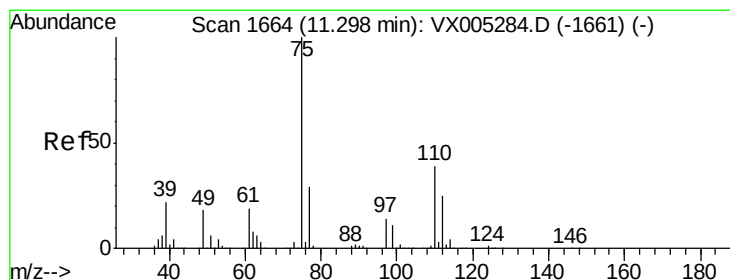
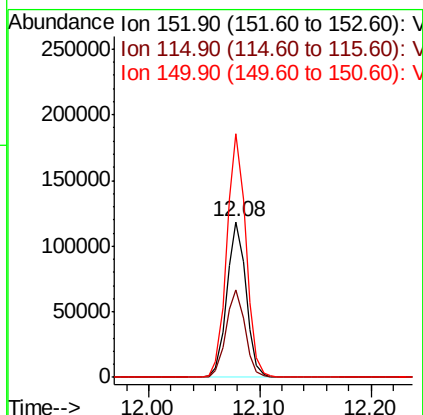
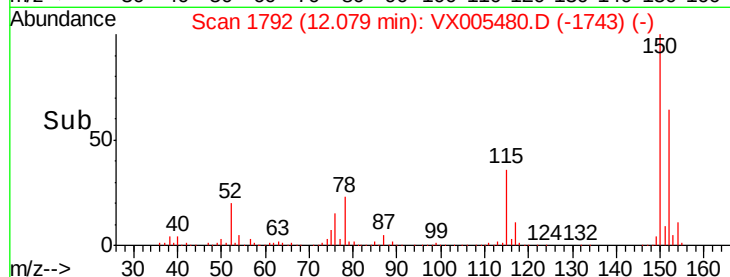
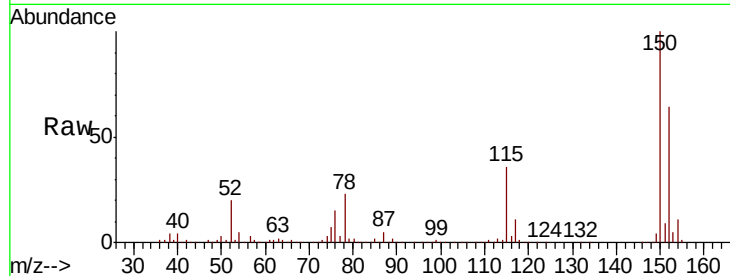
Tot Ion:152 Resp: 140515

Ion Ratio Lower Upper

152 100

115 56.0 39.0 117.0

150 156.8 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 23.783 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005480.D

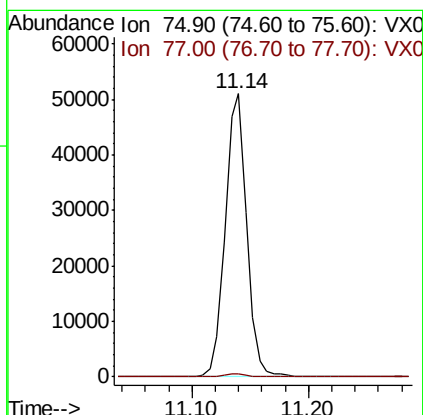
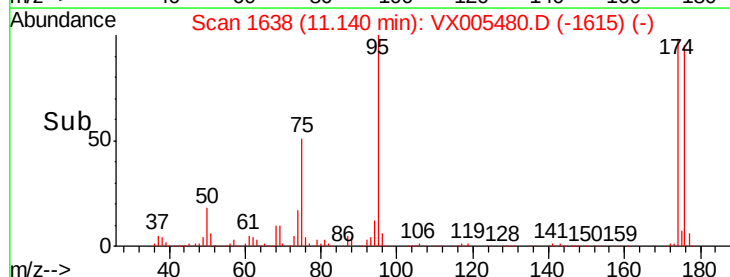
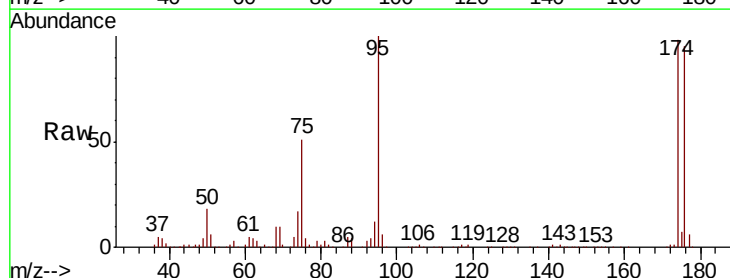
Acq: 22 Oct 2018 19:40

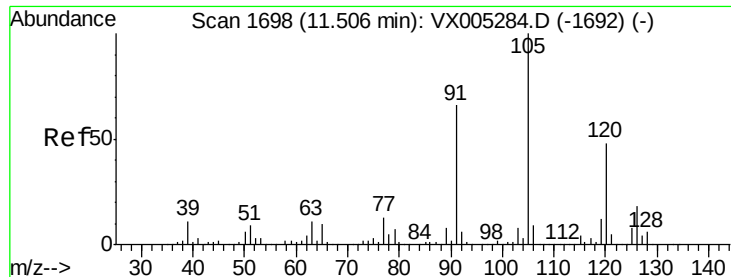
Tgt Ion: 75 Resp: 64824

Ion Ratio Lower Upper

75 100

77 1.2 20.2 60.6#

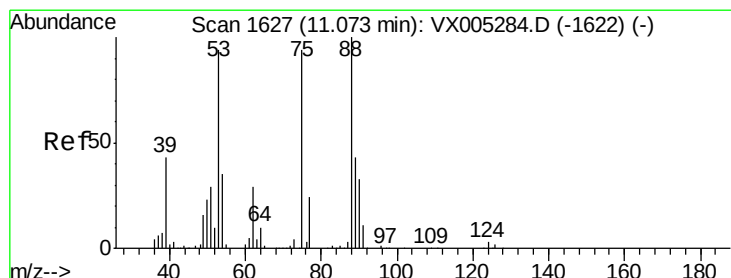
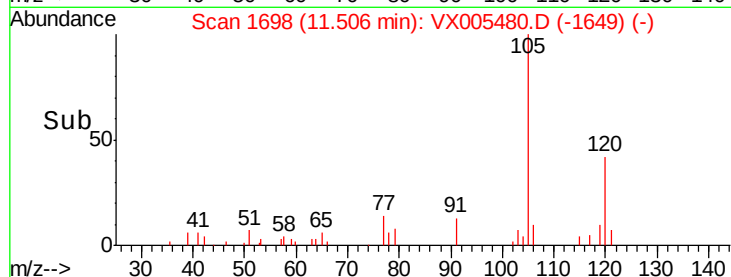
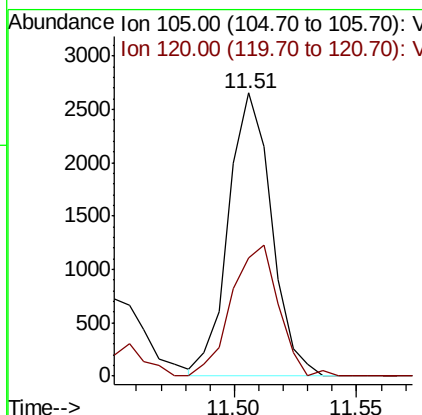
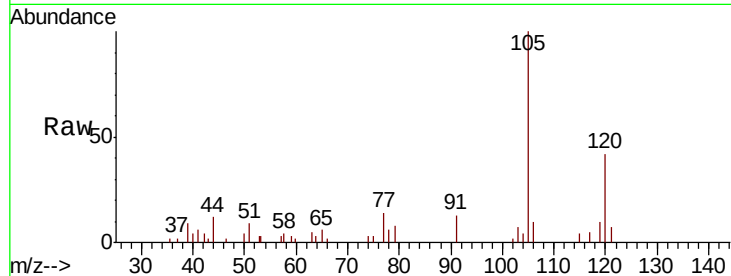




#80
 1,3,5-Trimethylbenzene
 Concen: 0.456 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

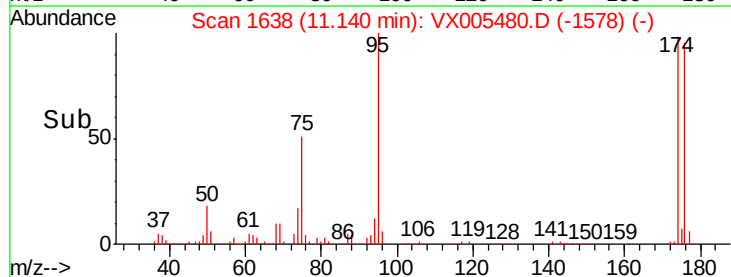
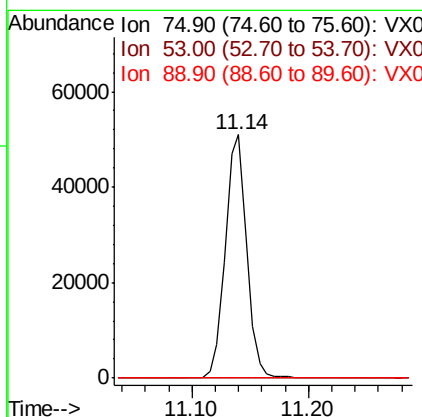
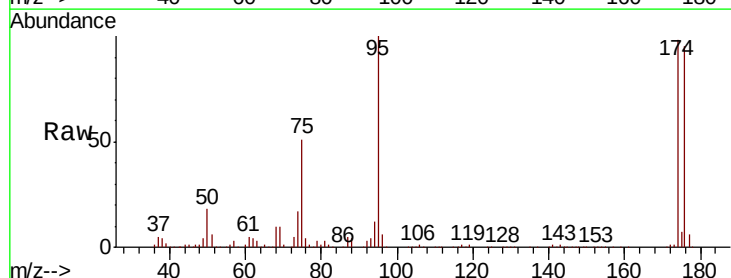
Instrument :
 MSVOA_X
 ClientSampled :
 TP-A

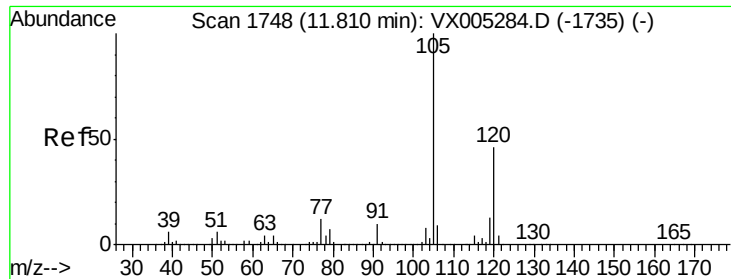
Tot Ion:105 Resp: 3259
 Ion Ratio Lower Upper
 105 100
 120 50.3 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.266 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Tgt Ion: 75 Resp: 64824
 Ion Ratio Lower Upper
 75 100
 53 0.4 80.1 120.1#
 89 0.0 37.2 55.8#

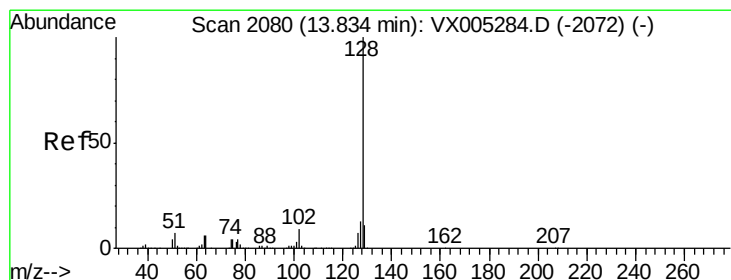
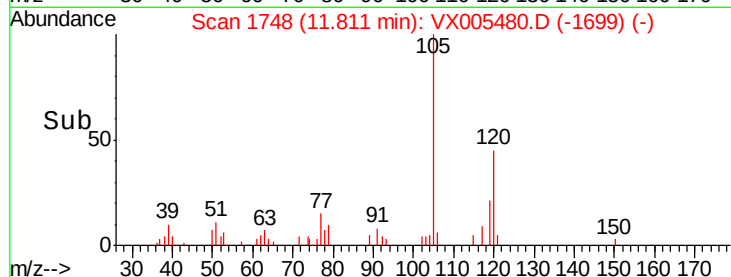
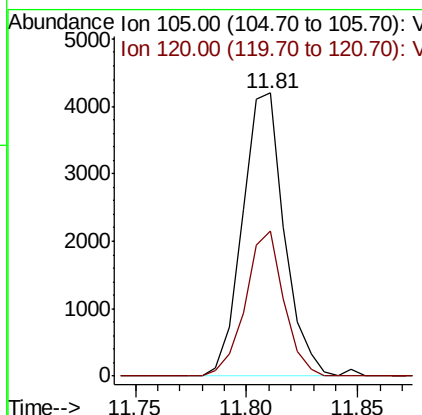
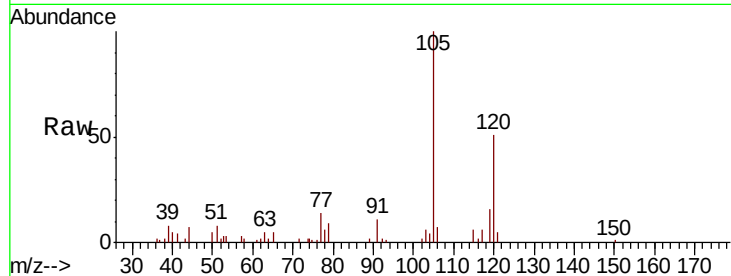




#84
 1,2,4-Trimethylbenzene
 Concen: 0.748 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.00 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Instrument :
 MSVOA_X
 ClientSampled :
 TP-A

Tot Ion:105 Resp: 5503
 Ion Ratio Lower Upper
 105 100
 120 46.8 23.2 69.6



#95
 Naphthalene
 Concen: 0.256 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX005480.D
 Acq: 22 Oct 2018 19:40

Tgt Ion:128 Resp: 2485
 Ion Ratio Lower Upper
 128 100
 127 14.2 10.2 15.2
 129 13.7 8.6 12.8#

