

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110518\
 Data File : VX005781.D
 Acq On : 05 Nov 2018 16:31
 Operator : JC/MD
 Sample : PB114444TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 00:45:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	143884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	242896	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	228554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	92645	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	107333	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	5.50	113	86241	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	8.71	98	294005	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.14	95	93341	42.88	ug/l	0.00
Spiked Amount			Recovery	=	85.76%	

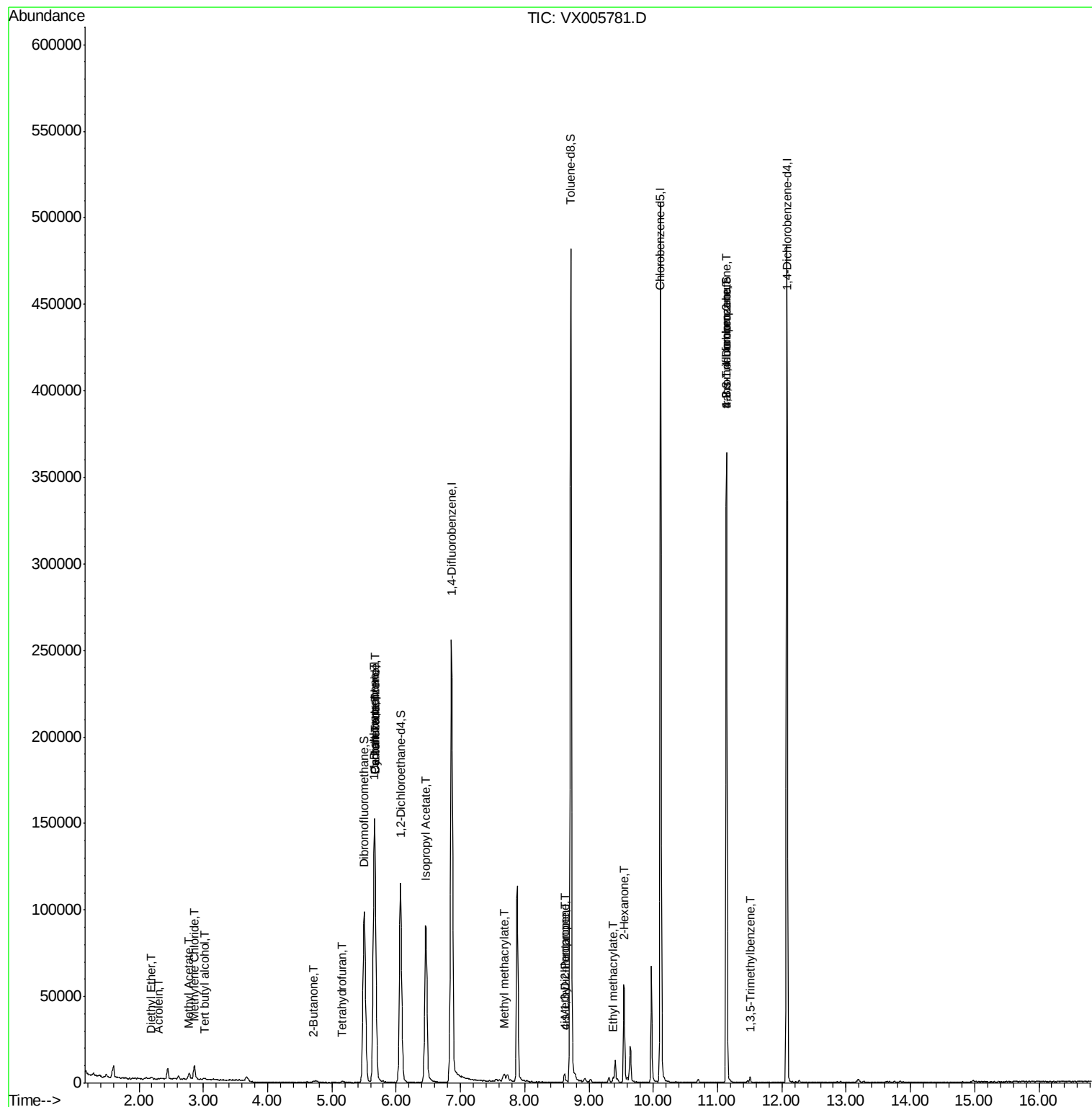
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.78	64	20	Below Cal	#	42
8) Diethyl Ether	2.18	74	247	0.210	ug/l	94
11) Tert butyl alcohol	3.03	59	786	1.376	ug/l #	72
13) Acrolein	2.30	56	96	12.406	ug/l #	74
16) Acetone	2.45	43	6414	Below Cal	#	86
18) Methyl Acetate	2.78	43	4313	1.429	ug/l #	90
20) Methylene Chloride	2.86	84	3466	1.911	ug/l	91
25) 2-Butanone	4.71	43	1229	0.693	ug/l	98
29) Tetrahydrofuran	5.16	42	639	0.590	ug/l #	70
31) Cyclohexane	5.66	56	3575	1.272	ug/l #	6
36) 1,1-Dichloropropene	5.65	75	12244	4.731	ug/l #	48
38) Carbon Tetrachloride	5.67	117	14689	6.283	ug/l #	16
43) Isopropyl Acetate	6.46	43	119878	25.016	ug/l	97
48) Methyl methacrylate	7.68	41	4047	1.745	ug/l #	31
51) 4-Methyl-2-Pentanone	8.62	43	1387	0.424	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	656	0.239	ug/l #	73
56) Ethyl methacrylate	9.38	69	74	2.494	ug/l #	1
59) 2-Hexanone	9.54	43	6336	2.383	ug/l #	62
76) 1,2,3-Trichloropropane	11.14	75	49432	21.423	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1355	0.261	ug/l	82
81) trans-1,4-Dichloro-2-buten	11.14	75	49432	69.216	ug/l #	9

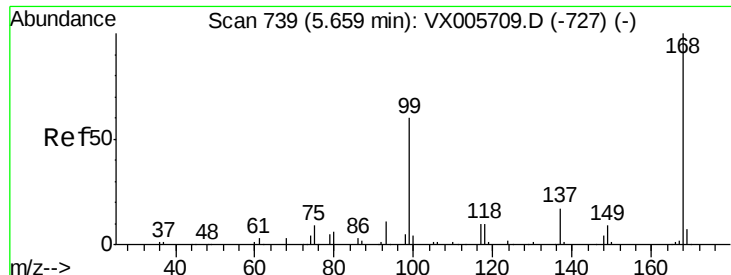
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Nov 06 00:45:38 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 31 18:23:06 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: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

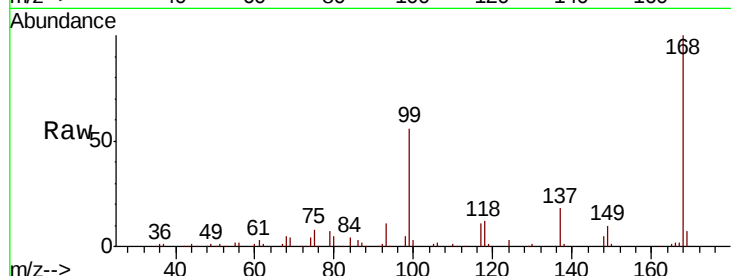
ClientSampleId :

Tot Ion:168 Resp: 143884

Ion Ratio Lower Upper

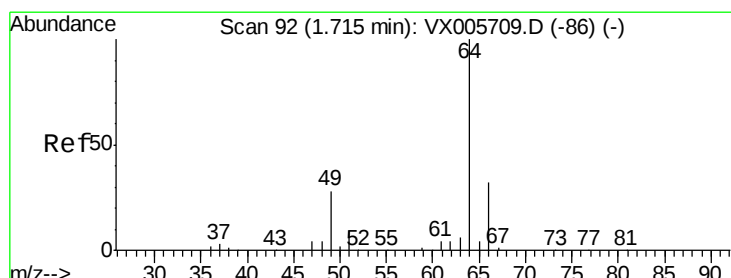
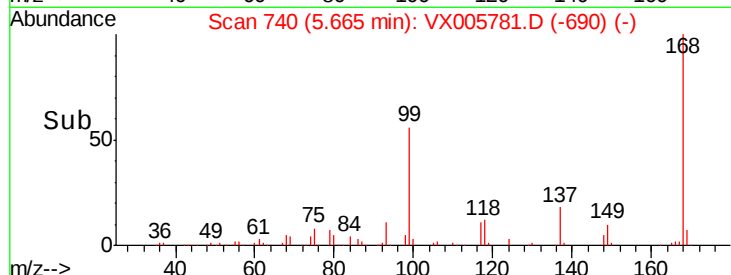
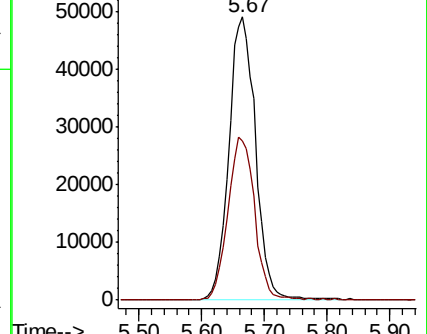
168 100

99 56.4 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 102

Delta R.T. 0.06 min

Lab File: VX005781.D

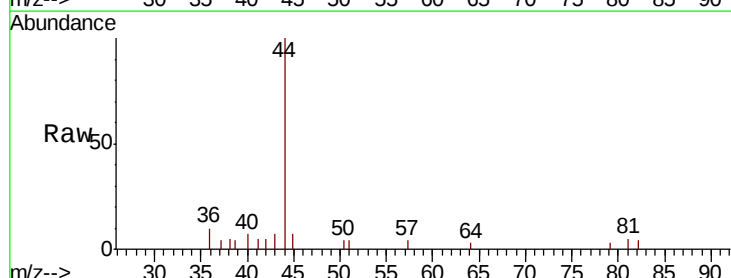
Acq: 05 Nov 2018 16:31

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

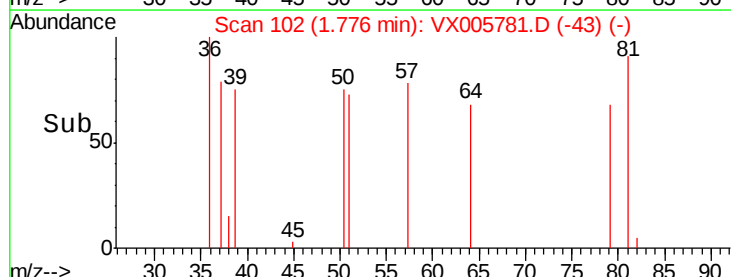
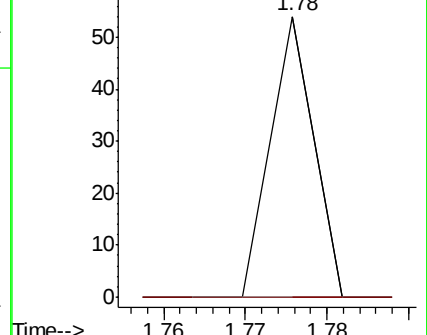
64 100

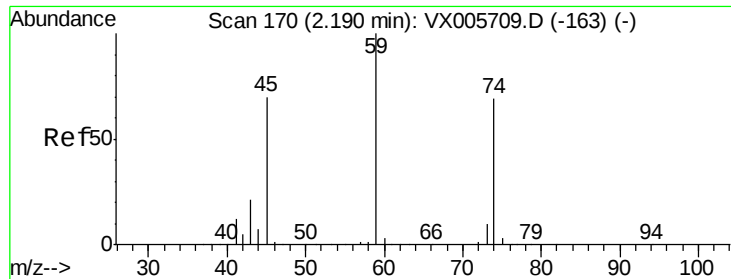
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.210 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

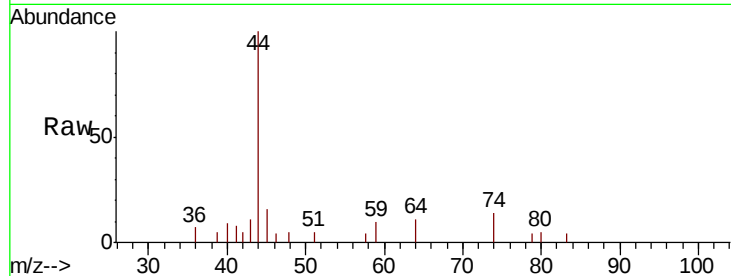
ClientSampleId :

Tot Ion: 74 Resp: 247

Ion Ratio Lower Upper

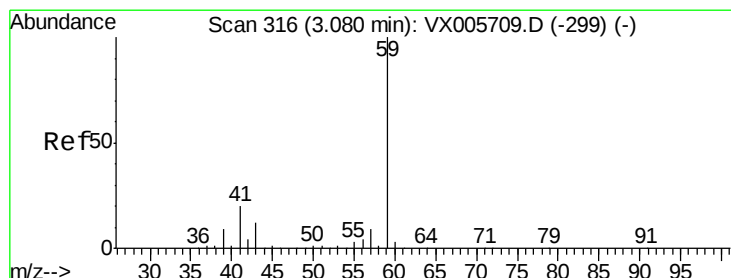
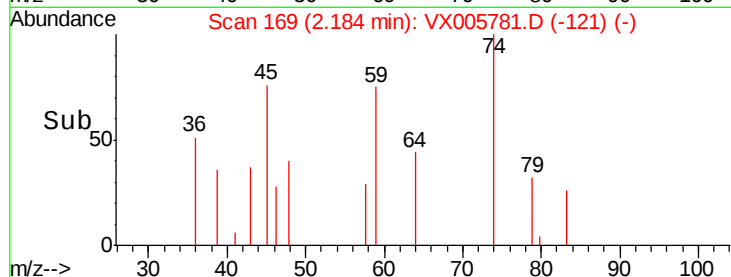
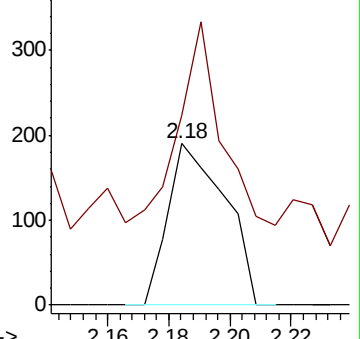
74 100

45 102.0 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.376 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005781.D

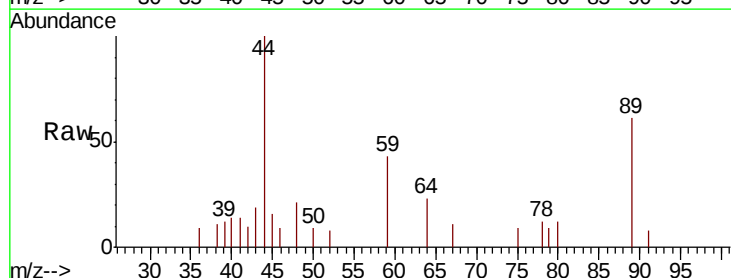
Acq: 05 Nov 2018 16:31

Tgt Ion: 59 Resp: 786

Ion Ratio Lower Upper

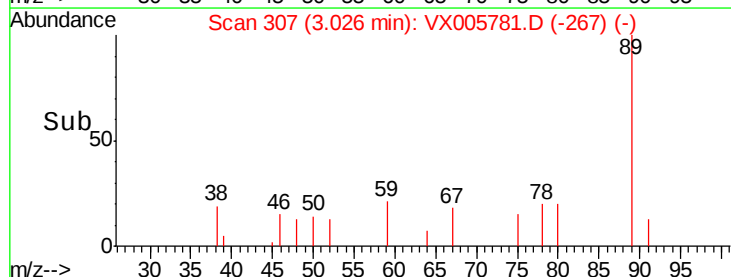
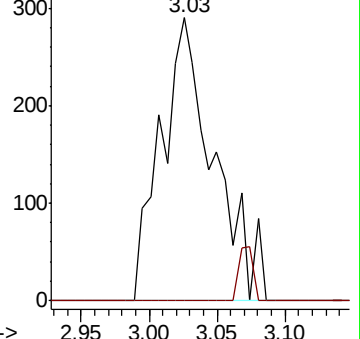
59 100

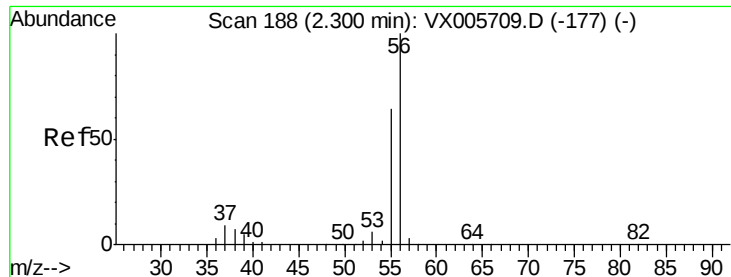
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 12.406 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

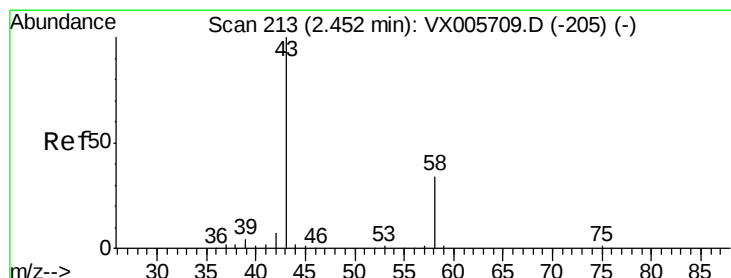
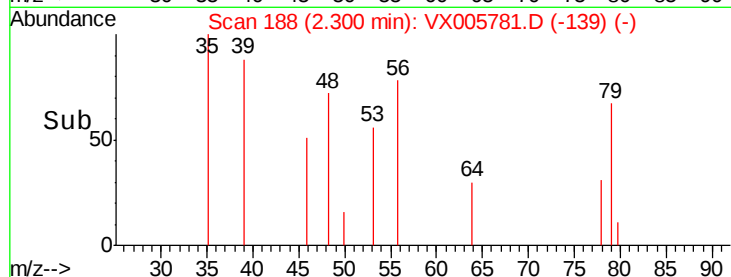
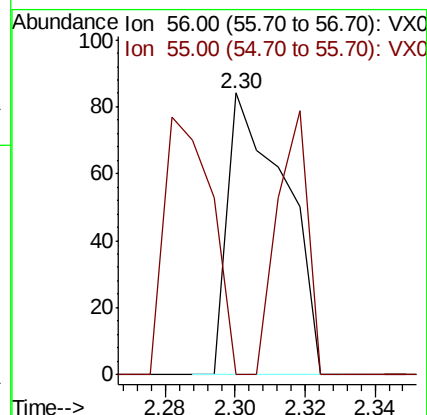
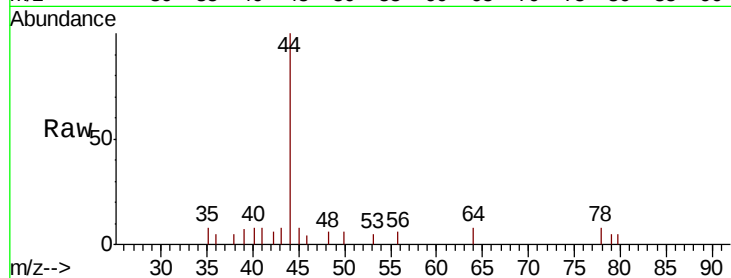
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 96

Ion Ratio Lower Upper

56 100

55 50.0 57.3 85.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005781.D

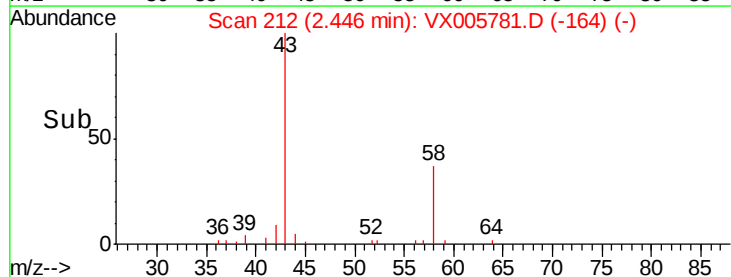
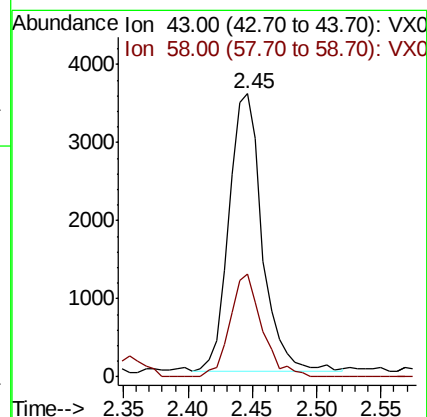
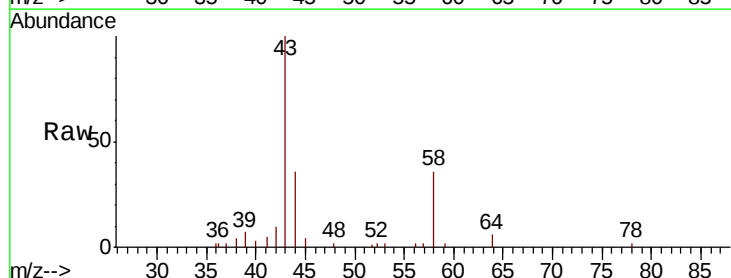
Acq: 05 Nov 2018 16:31

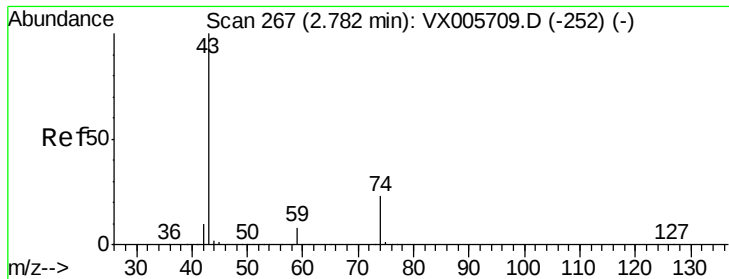
Tgt Ion: 43 Resp: 6414

Ion Ratio Lower Upper

43 100

58 37.0 23.8 35.6#

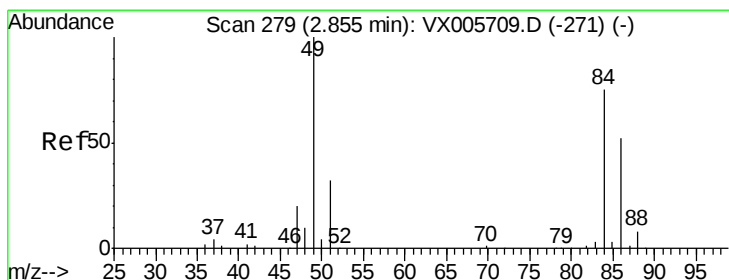
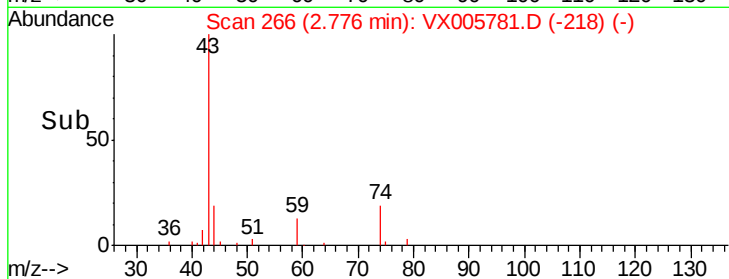
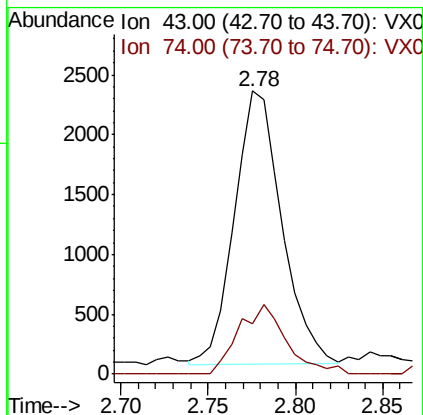
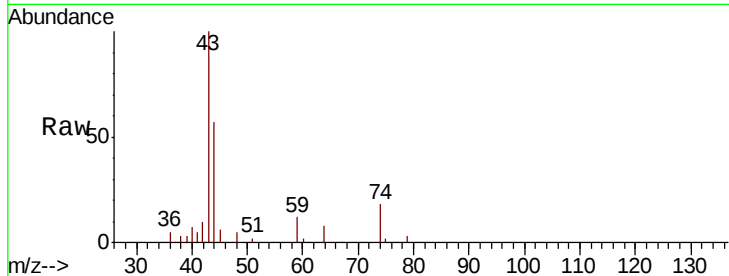




#18
Methyl Acetate
Concen: 1.429 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

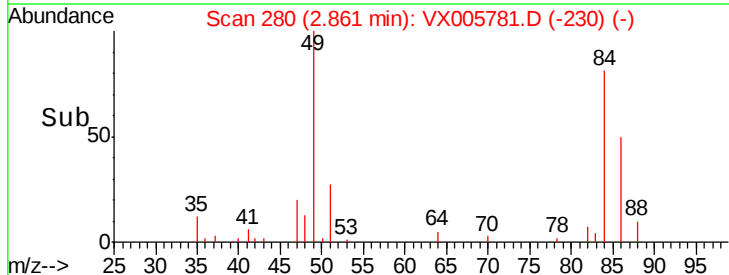
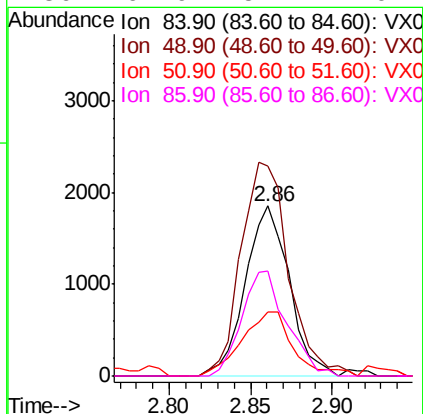
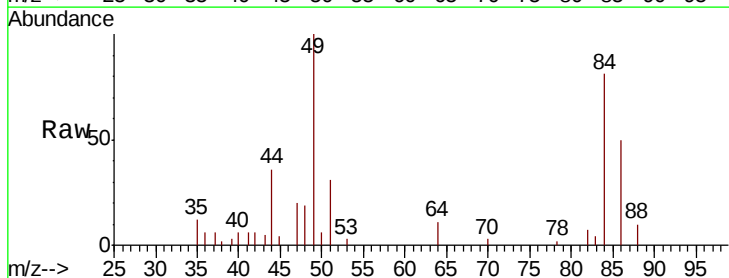
Instrument :
MSVOA_X
ClientSampled :

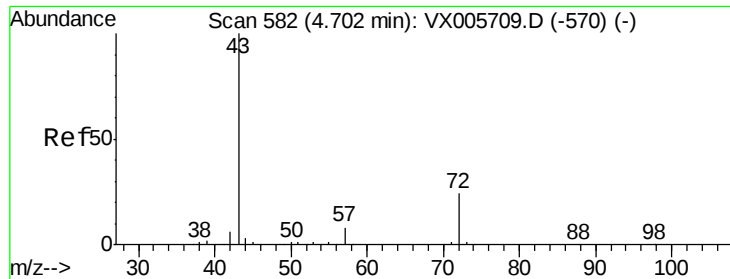
Tot Ion: 43 Resp: 4313
Ion Ratio Lower Upper
43 100
74 25.9 16.8 25.2#



#20
Methylene Chloride
Concen: 1.911 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Tgt Ion: 84 Resp: 3466
Ion Ratio Lower Upper
84 100
49 123.6 109.5 164.3
51 37.8 33.3 49.9
86 61.9 52.7 79.1





#25

2-Butanone

Concen: 0.693 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

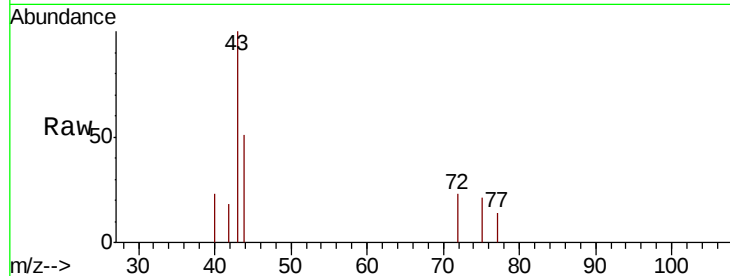
ClientSampleId :

Tot Ion: 43 Resp: 1229

Ion Ratio Lower Upper

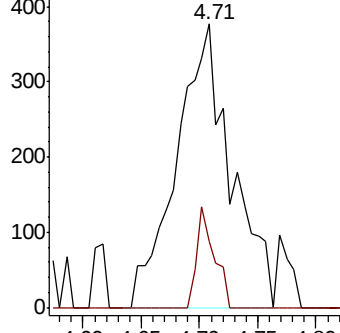
43 100

72 23.1 19.2 28.8

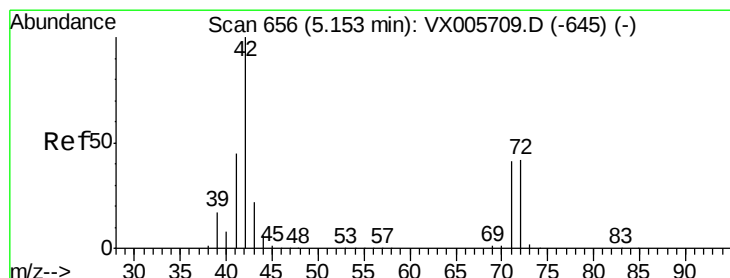
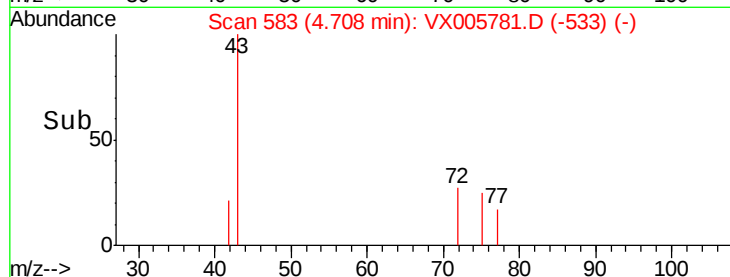


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.590 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

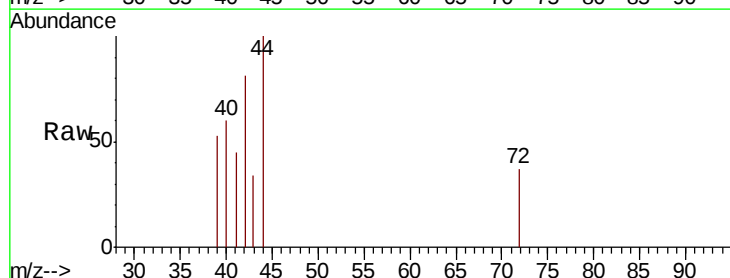
Tgt Ion: 42 Resp: 639

Ion Ratio Lower Upper

42 100

72 36.6 32.0 48.0

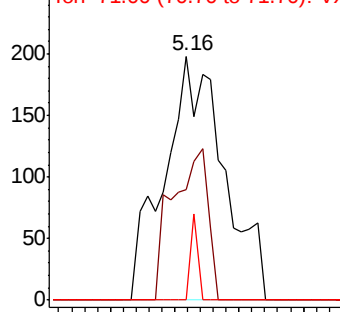
71 4.1 29.8 44.8#



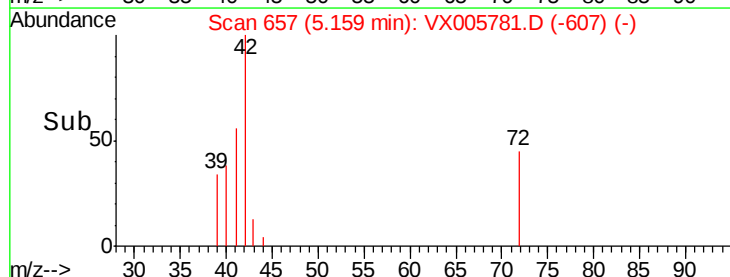
Abundance Ion 42.00 (41.70 to 42.70): VX0

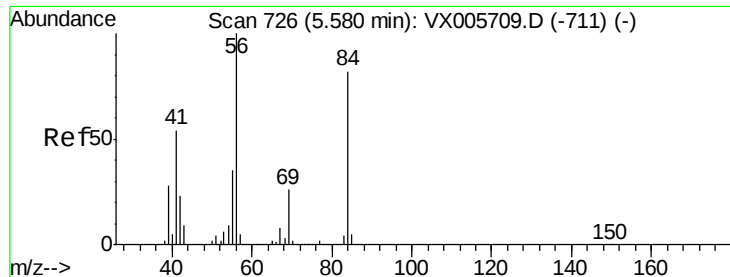
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->

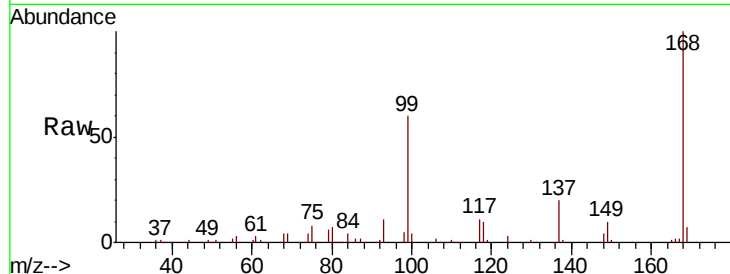




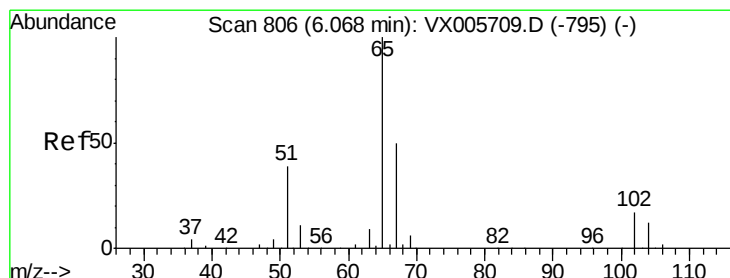
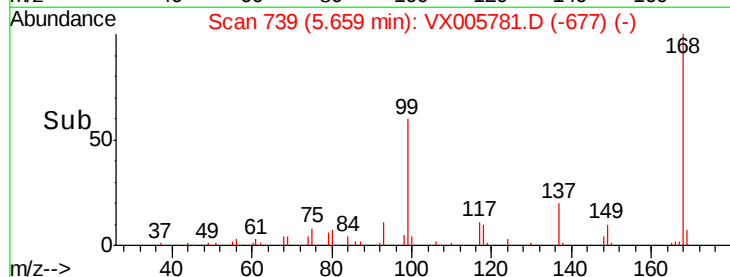
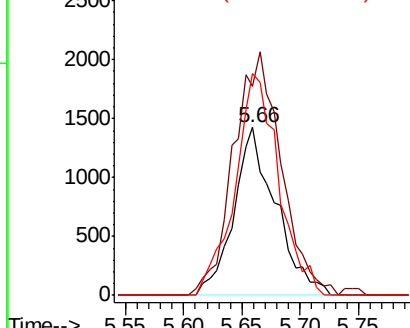
#31
Cyclohexane
Concen: 1.272 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 3575
Ion Ratio Lower Upper
56 100
69 124.4 22.6 34.0#
84 132.4 62.7 94.1#

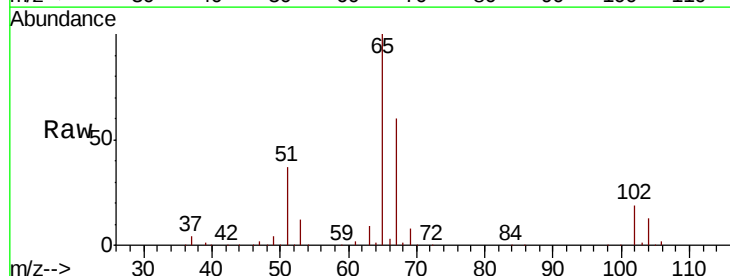


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

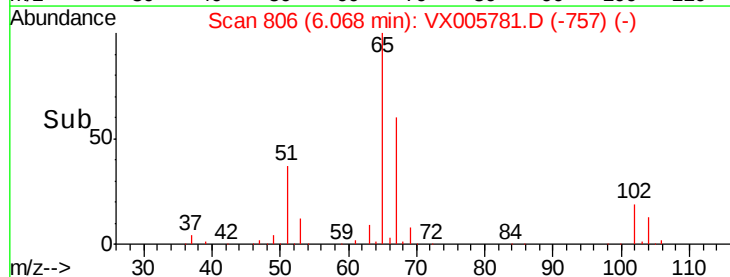
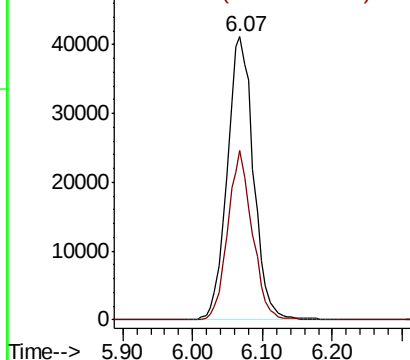


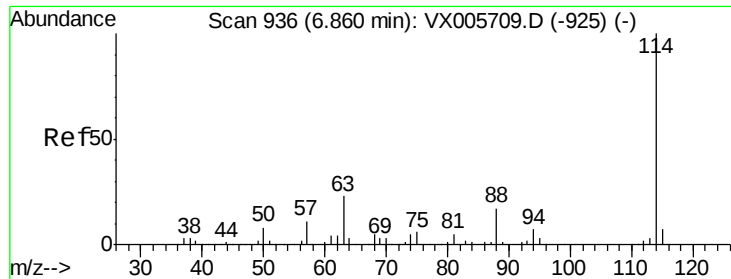
#33
1,2-Dichloroethane-d4
Concen: 51.023 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Tgt Ion: 65 Resp: 107333
Ion Ratio Lower Upper
65 100
67 55.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

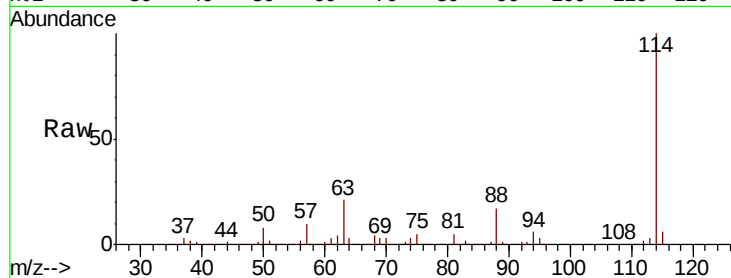




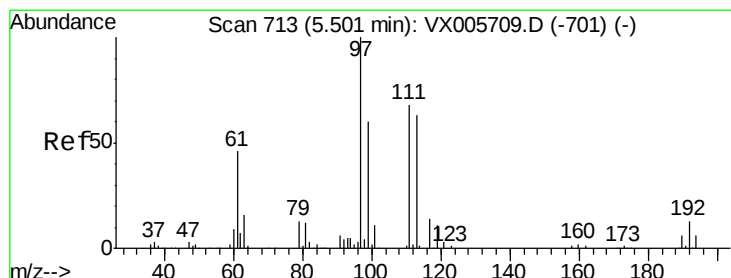
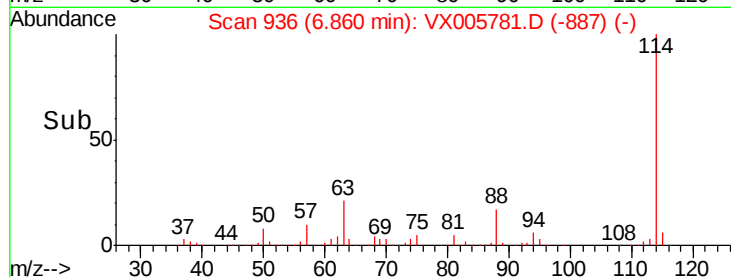
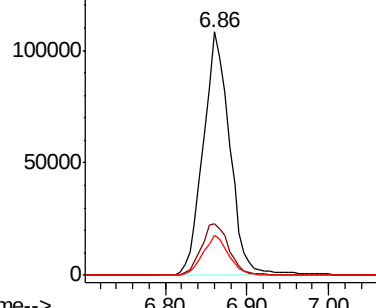
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	42.8
88	16.6	0.0	31.2

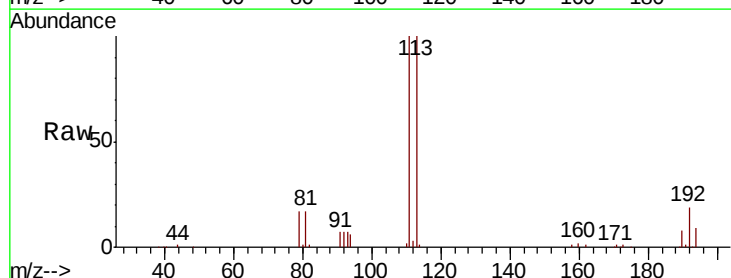


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

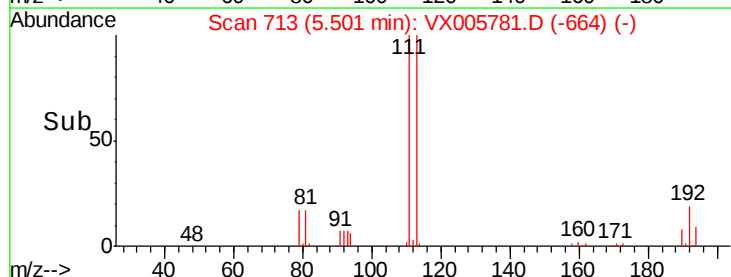
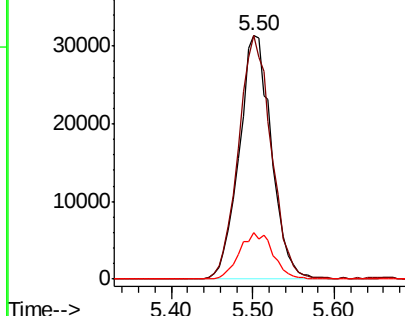


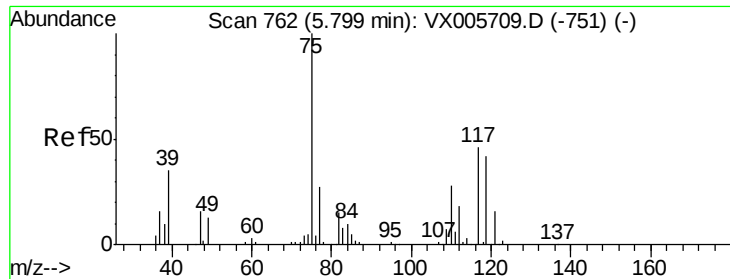
#35
Dibromofluoromethane
Concen: 51.278 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.3	123.5
192	19.8	17.9	26.9



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

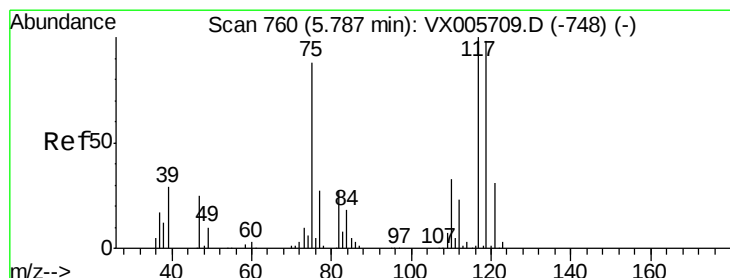
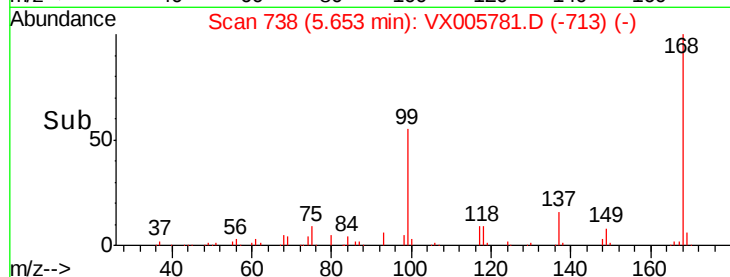
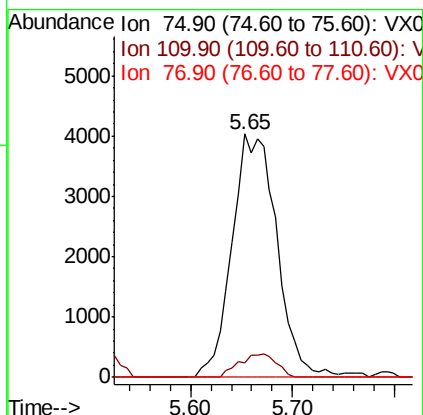
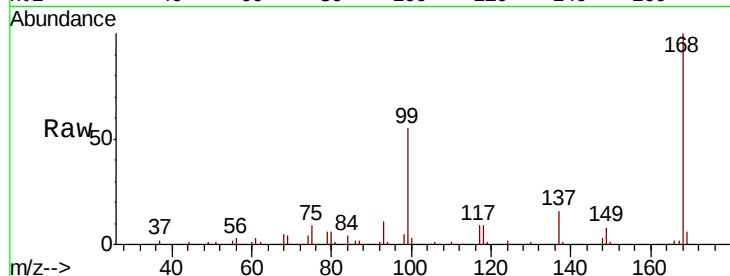




#36
 1,1-Dichloropropene
 Concen: 4.731 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX005781.D
 Acq: 05 Nov 2018 16:31

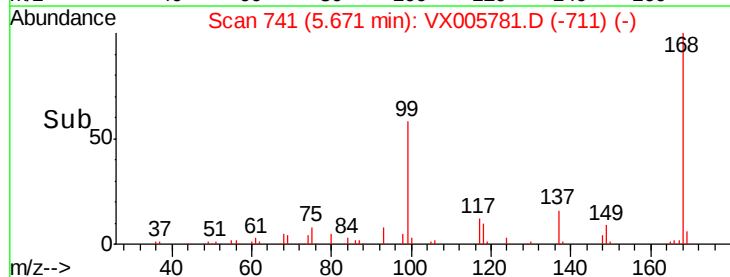
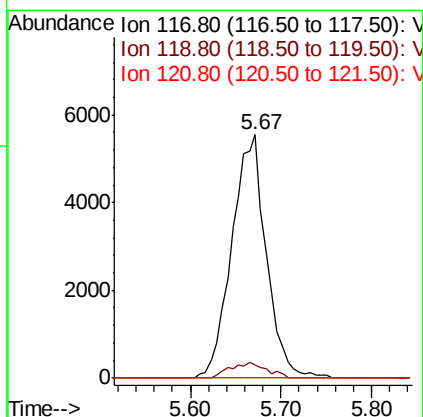
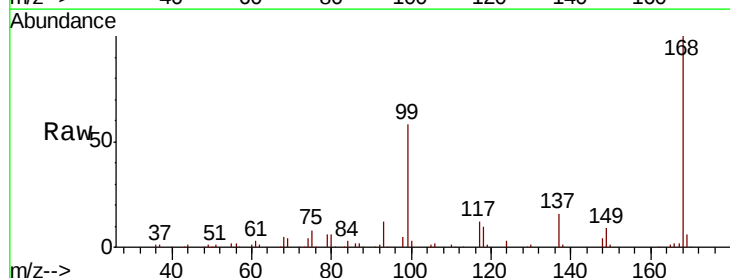
Instrument :
 MSVOA_X
 ClientSampled :

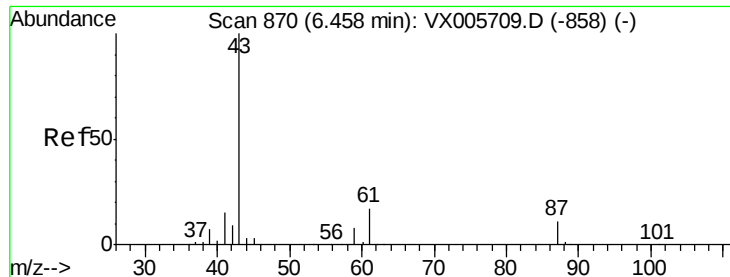
Tot Ion	75	Resp	12244
Ion Ratio	Lower	Upper	
75	100		
110	8.2	17.4	52.2#
77	0.0	25.8	38.6#



#38
 Carbon Tetrachloride
 Concen: 6.283 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.12 min
 Lab File: VX005781.D
 Acq: 05 Nov 2018 16:31

Tgt Ion	117	Resp	14689
Ion Ratio	Lower	Upper	
117	100		
119	5.6	78.1	117.1#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 25.016 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

ClientSampled :

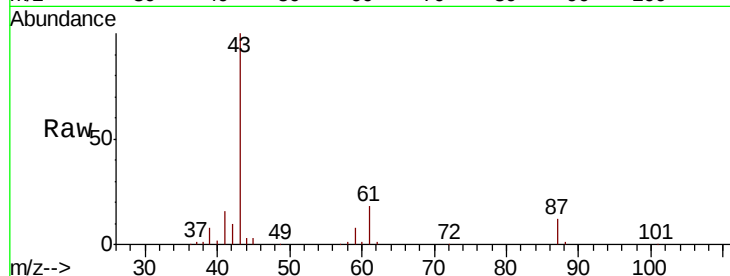
Tot Ion: 43 Resp: 119878

Ion Ratio Lower Upper

43 100

61 20.4 14.6 22.0

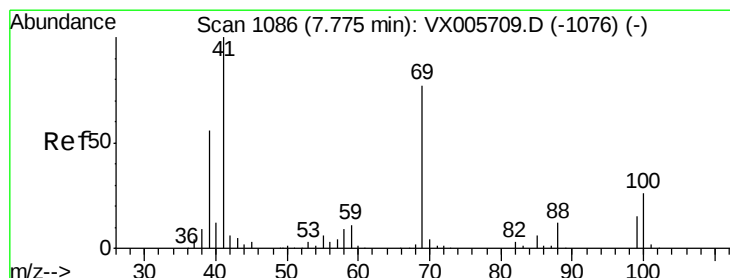
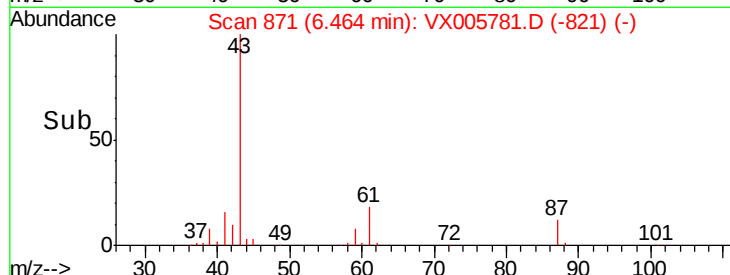
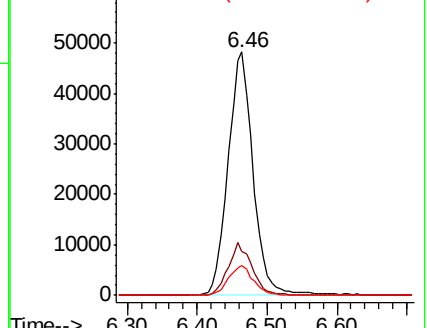
87 12.3 9.6 14.4



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: 1.745 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

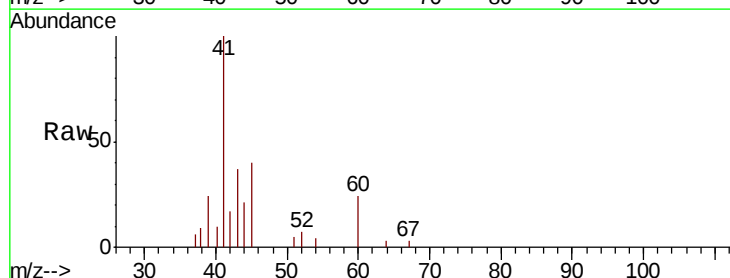
Tgt Ion: 41 Resp: 4047

Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

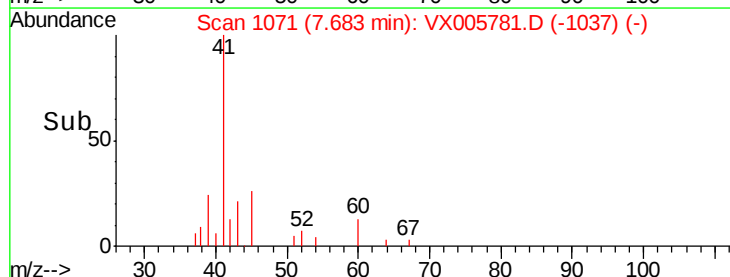
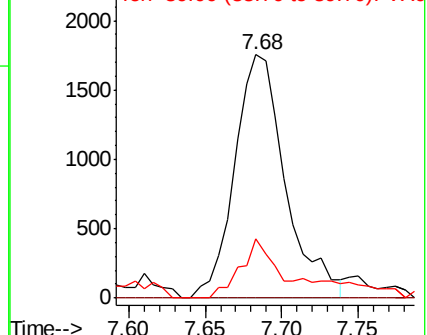
39 26.5 42.2 63.2#

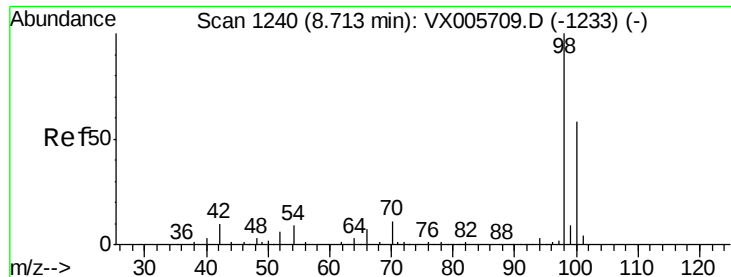


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 49.842 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

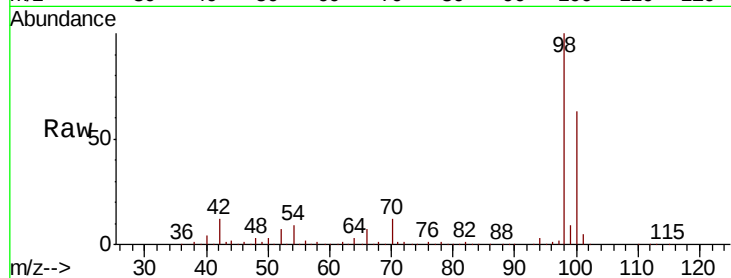
ClientSampleId :

Tot Ion: 98 Resp: 294005

Ion Ratio Lower Upper

98 100

100 62.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

200000

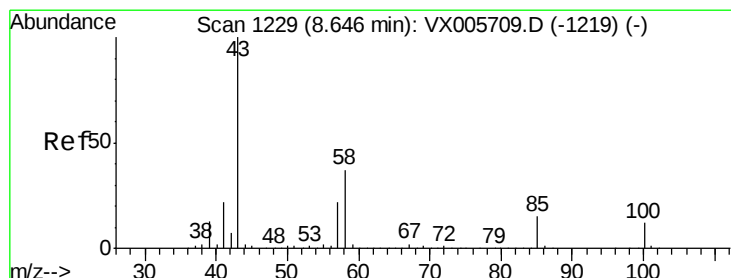
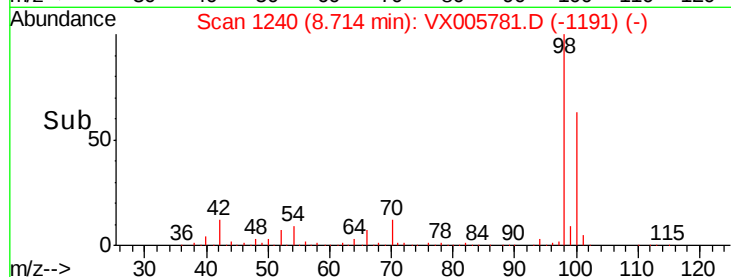
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.424 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005781.D

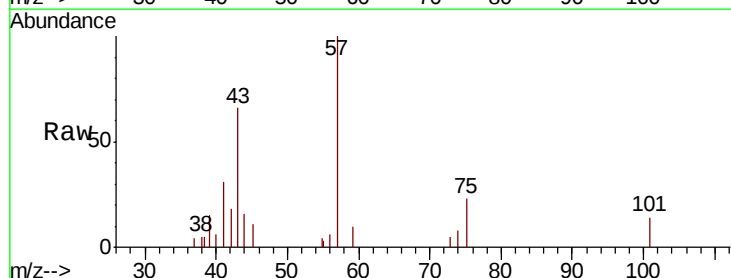
Acq: 05 Nov 2018 16:31

Tgt Ion: 43 Resp: 1387

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

1000

800

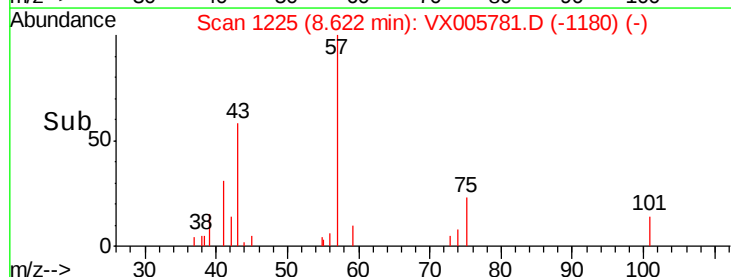
600

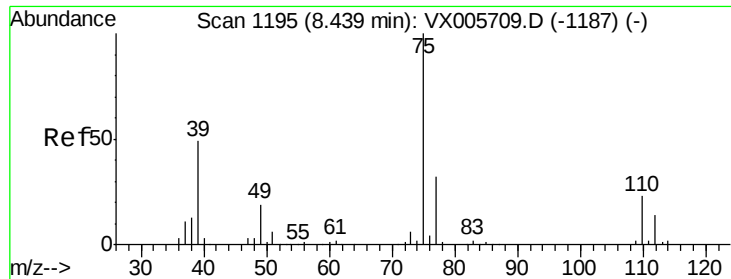
400

200

0

Time-->



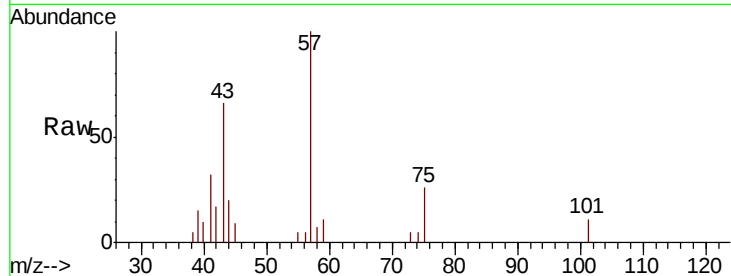


#54

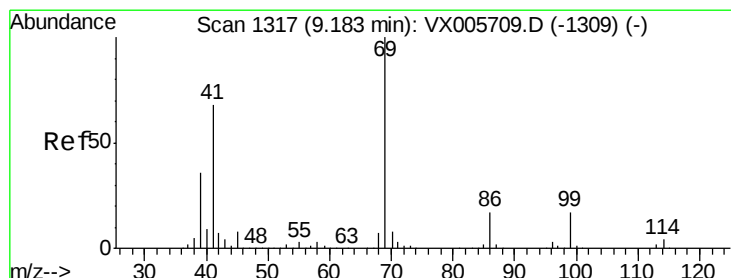
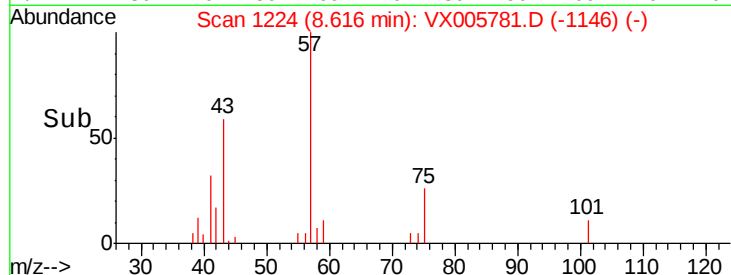
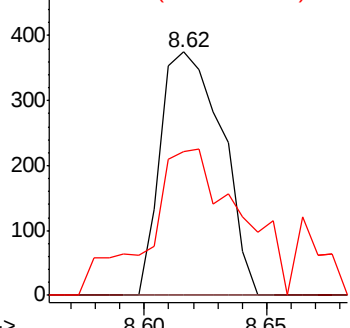
cis-1,3-Dichloropropene
 Concen: 0.239 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005781.D
 Acq: 05 Nov 2018 16:31

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 656
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 42.4 38.2 57.2



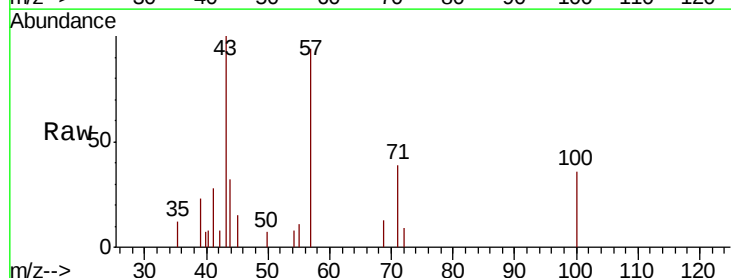
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



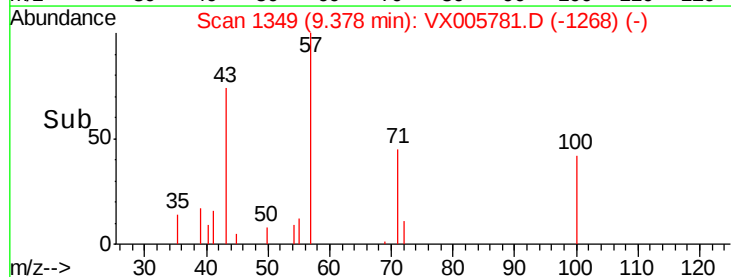
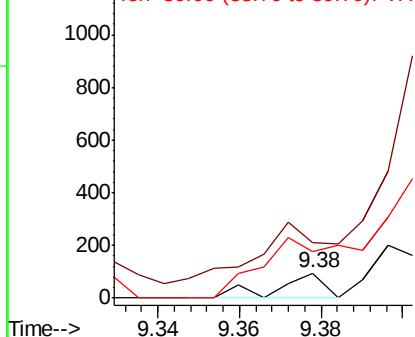
#56

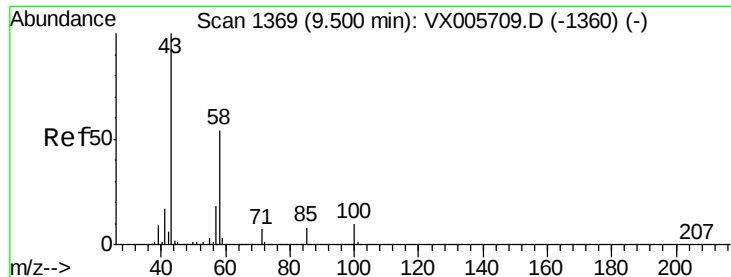
Ethyl methacrylate
 Concen: 2.494 ug/l
 RT: 9.38 min Scan# 1349
 Delta R.T. 0.20 min
 Lab File: VX005781.D
 Acq: 05 Nov 2018 16:31

Tgt Ion: 69 Resp: 74
 Ion Ratio Lower Upper
 69 100
 41 390.5 57.0 85.6#
 39 0.0 28.3 42.5#



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





#59

2-Hexanone

Concen: 2.383 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

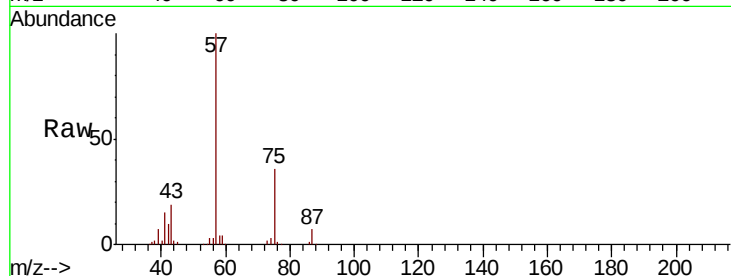
ClientSampled :

Tot Ion: 43 Resp: 6336

Ion Ratio Lower Upper

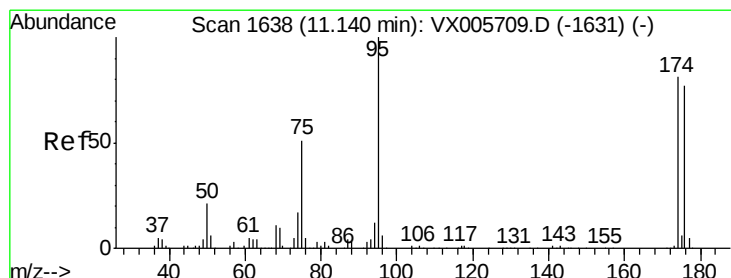
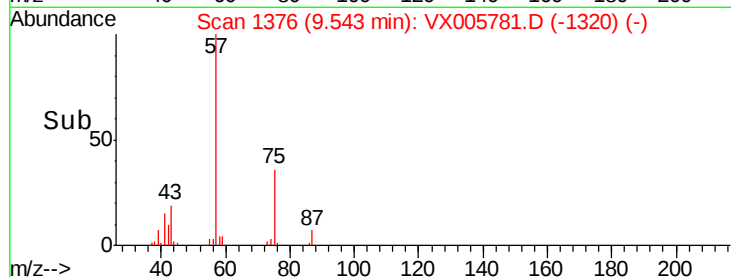
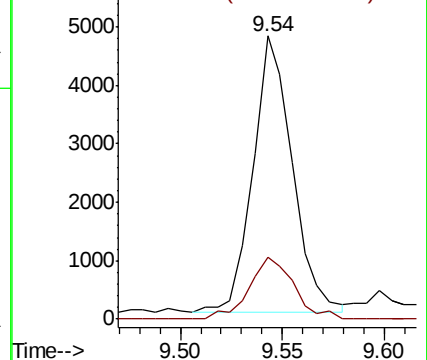
43 100

58 25.3 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.875 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

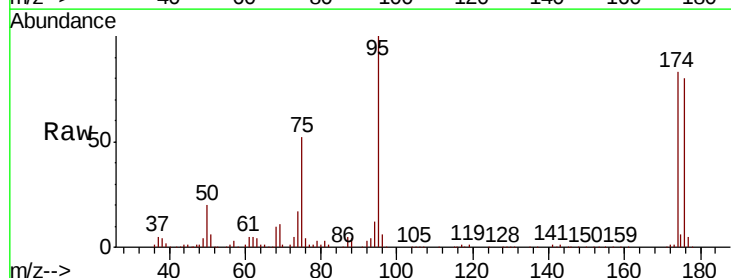
Tgt Ion: 95 Resp: 93341

Ion Ratio Lower Upper

95 100

174 81.6 0.0 184.4

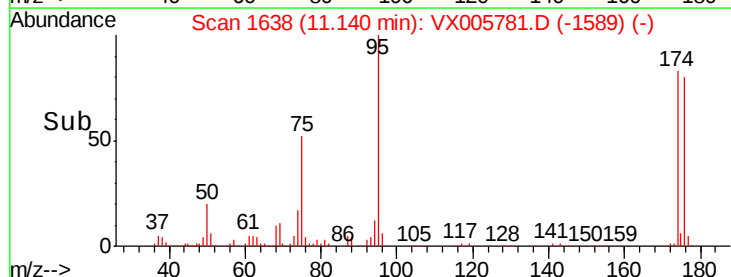
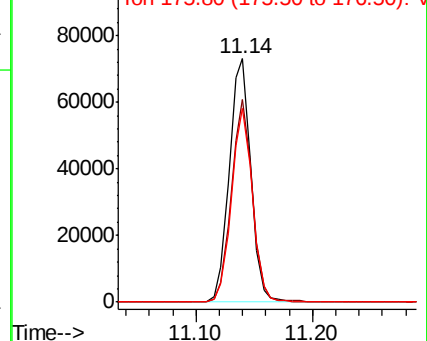
176 77.9 0.0 177.4

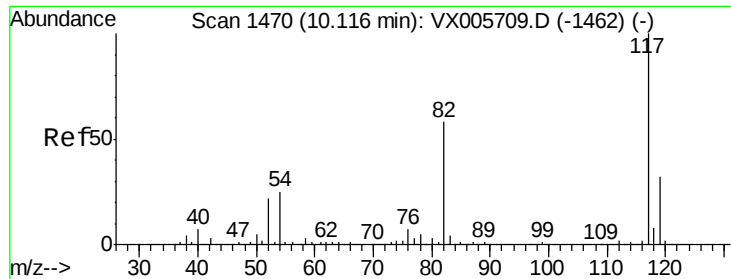


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

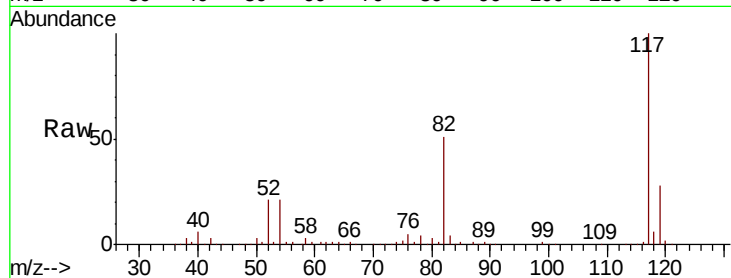




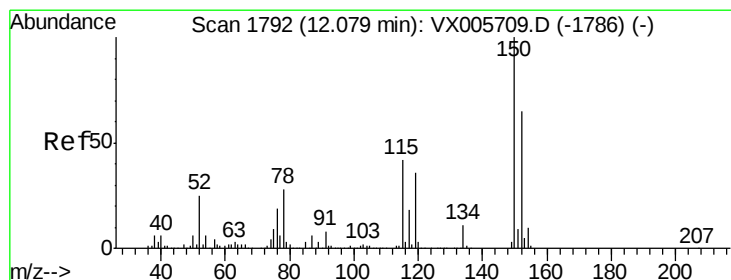
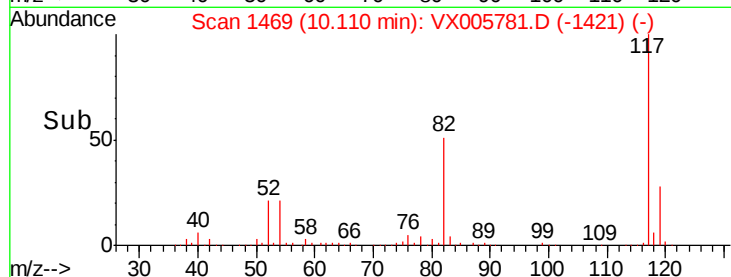
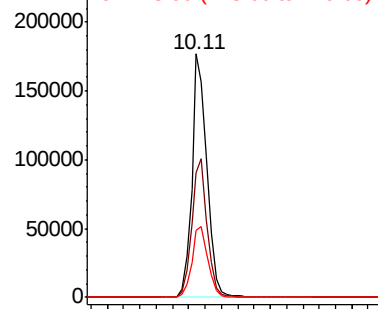
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 228554
Ion Ratio Lower Upper
117 100
82 51.0 44.1 66.1
119 27.5 26.2 39.2

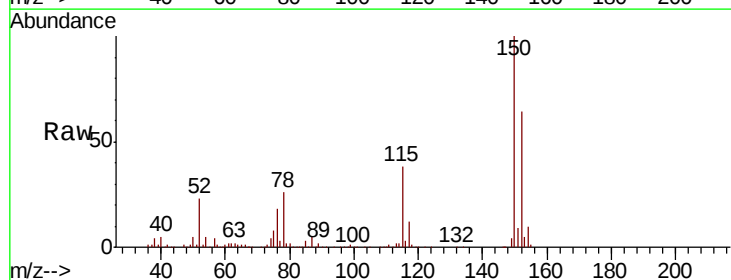


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

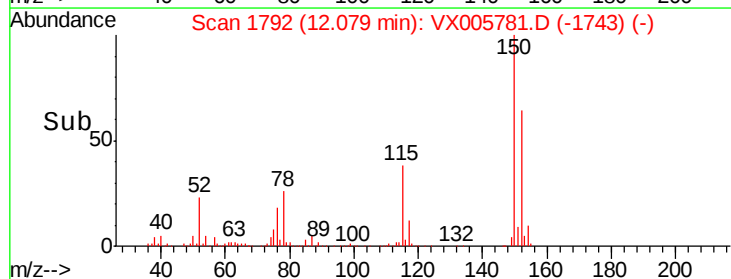
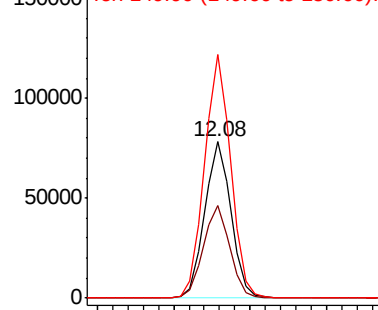


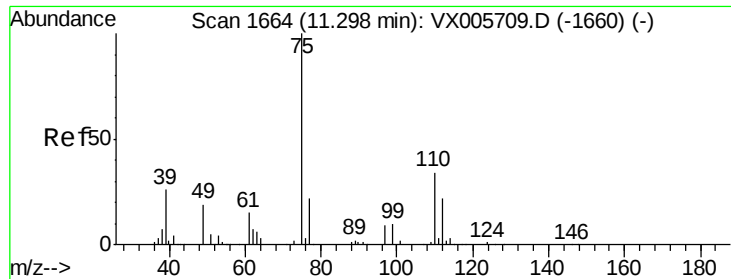
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005781.D
Acq: 05 Nov 2018 16:31

Tgt Ion:152 Resp: 92645
Ion Ratio Lower Upper
152 100
115 59.6 39.4 118.1
150 155.8 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: 21.423 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

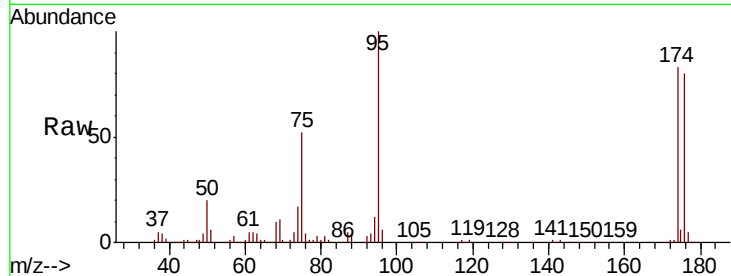
ClientSampleId :

Tot Ion: 75 Resp: 49432

Ion Ratio Lower Upper

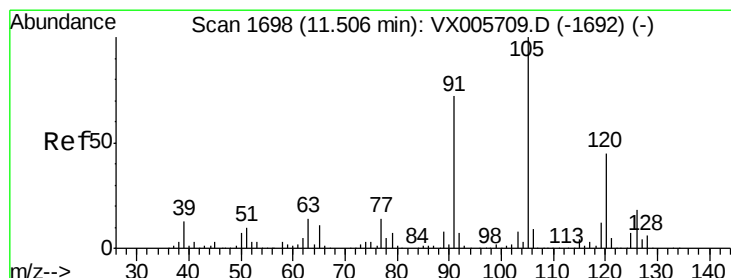
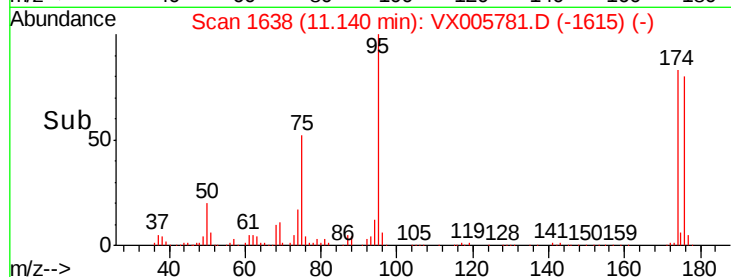
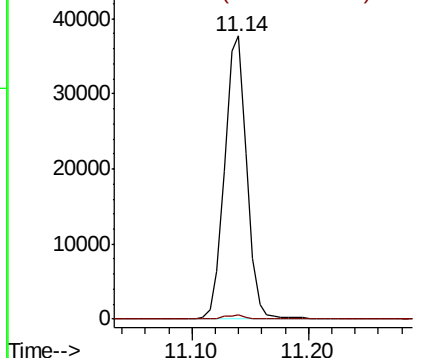
75 100

77 1.5 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.261 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX005781.D

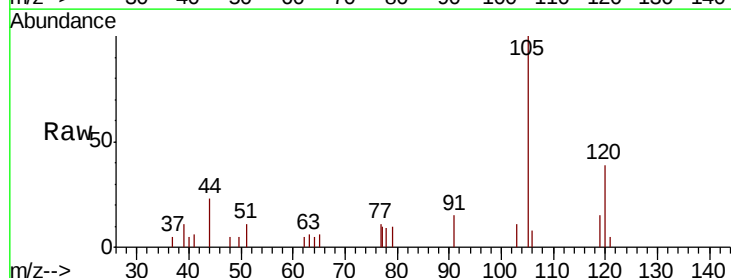
Acq: 05 Nov 2018 16:31

Tgt Ion: 105 Resp: 1355

Ion Ratio Lower Upper

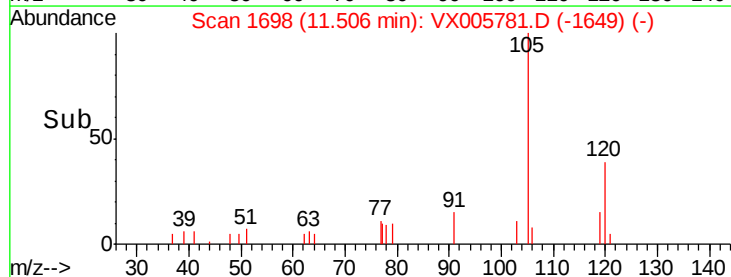
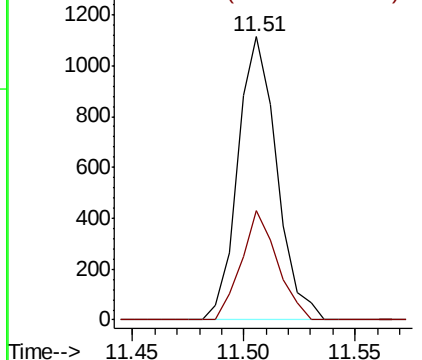
105 100

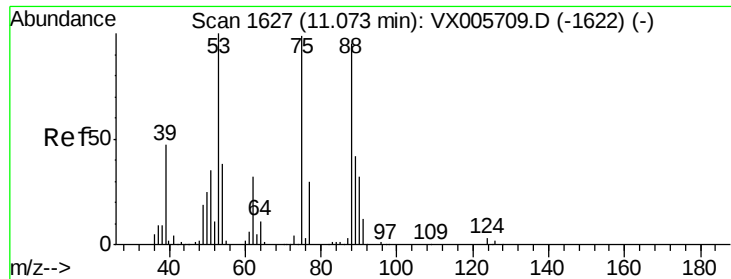
120 35.8 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.216 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005781.D

Acq: 05 Nov 2018 16:31

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 49432

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

89 0.0 39.8 59.8#

