

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004626.D
 Acq On : 17 Sep 2018 18:38
 Operator : JC/MD
 Sample : PB112894ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:55:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	347925	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	339944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	182011	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	153257	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
35) Dibromofluoromethane	5.51	113	138612	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	
50) Toluene-d8	8.71	98	499703	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
62) 4-Bromofluorobenzene	11.14	95	173189	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	

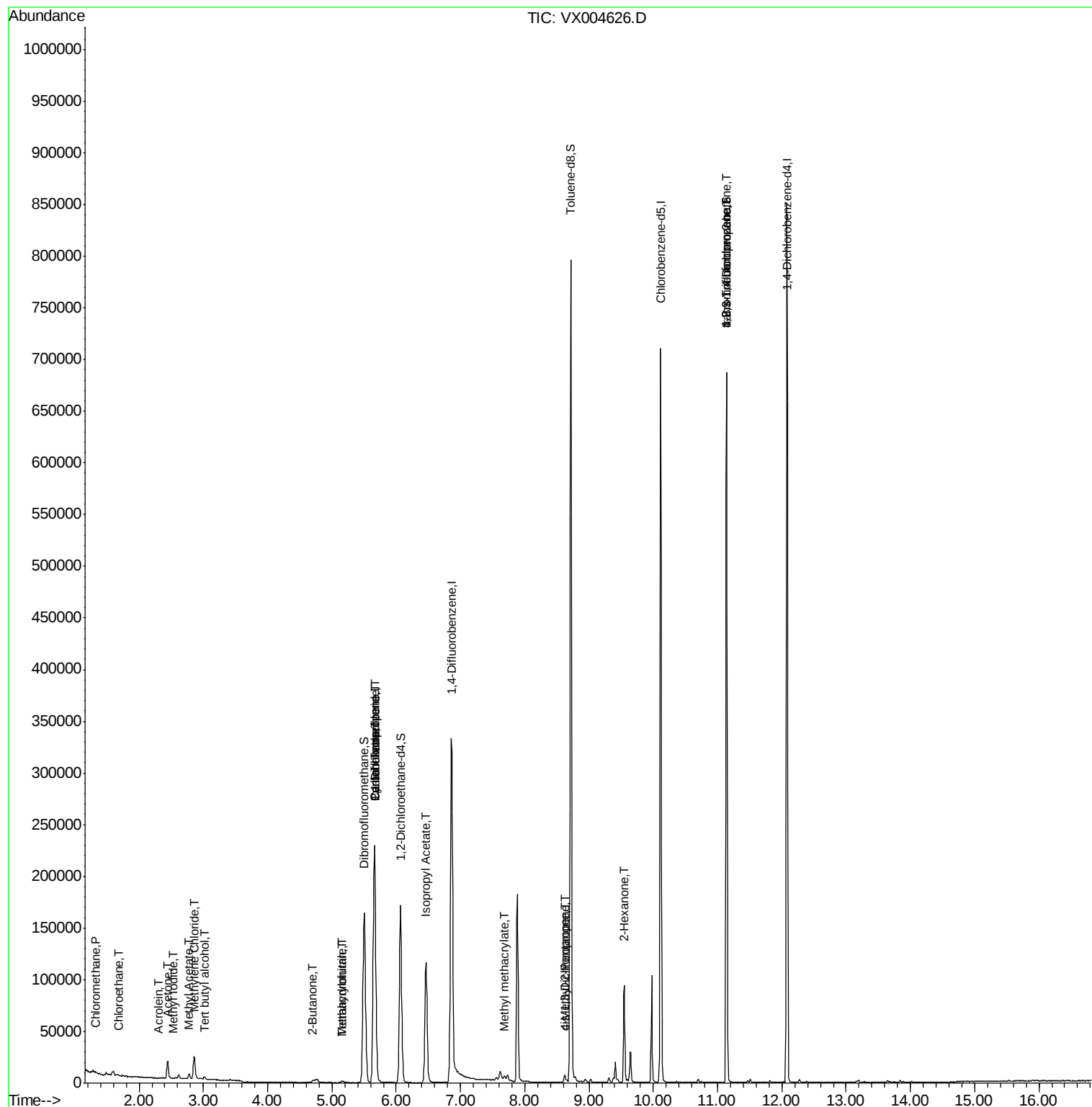
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	708	0.23	ug/l	93
5) Bromomethane	1.65	94	994	Below Cal		84
6) Chloroethane	1.70	64	580	0.28	ug/l #	44
10) Methyl Iodide	2.53	142	583	4.42	ug/l #	85
11) Tert butyl alcohol	3.02	59	1517	2.06	ug/l #	76
13) Acrolein	2.29	56	165	0.57	ug/l	90
16) Acetone	2.45	43	17606	11.70	ug/l	96
18) Methyl Acetate	2.78	43	6067	1.44	ug/l	94
20) Methylene Chloride	2.85	84	11062	3.58	ug/l	92
25) 2-Butanone	4.70	43	5031	2.10	ug/l	98
29) Tetrahydrofuran	5.16	42	1632	1.13	ug/l #	87
31) Cyclohexane	5.66	56	3726	0.84	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15517	3.67	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21124	5.12	ug/l #	15
41) Methacrylonitrile	5.16	41	1047	0.40	ug/l #	48
43) Isopropyl Acetate	6.46	43	150296	23.55	ug/l	99
48) Methyl methacrylate	7.68	41	5219	1.65	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2673	0.59	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1122	0.26	ug/l #	75
59) 2-Hexanone	9.55	43	10238	2.96	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	81116	22.15	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	81116	70.61	ug/l #	10

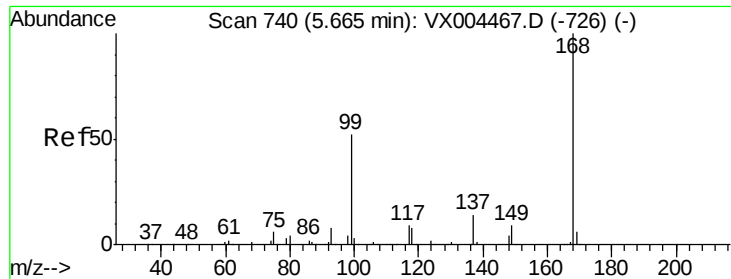
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Instrument :

MSVOA_X

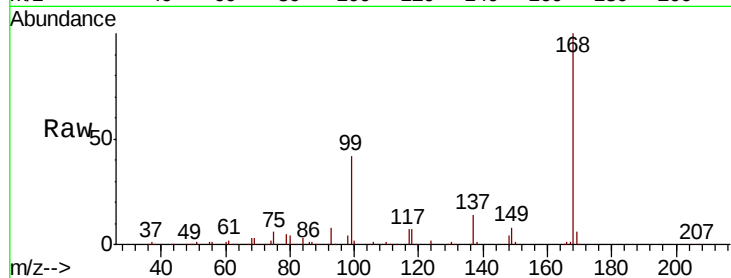
ClientSampleId :

Tot Ion:168 Resp: 239146

Ion Ratio Lower Upper

168 100

99 41.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

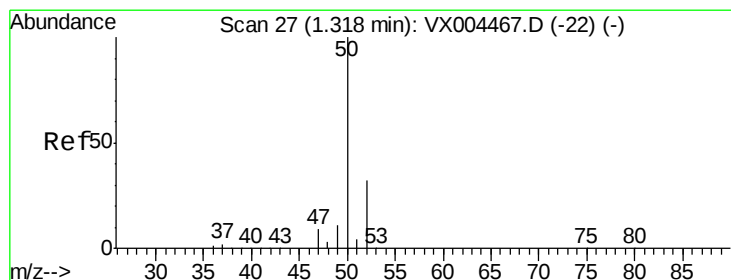
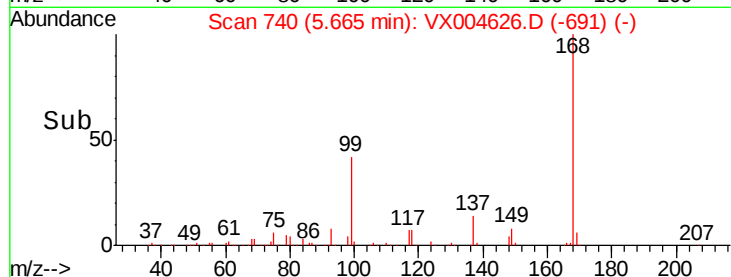
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004626.D

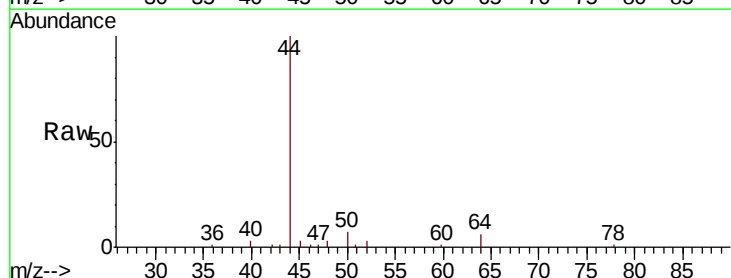
Acq: 17 Sep 2018 18:38

Tgt Ion: 50 Resp: 708

Ion Ratio Lower Upper

50 100

52 36.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

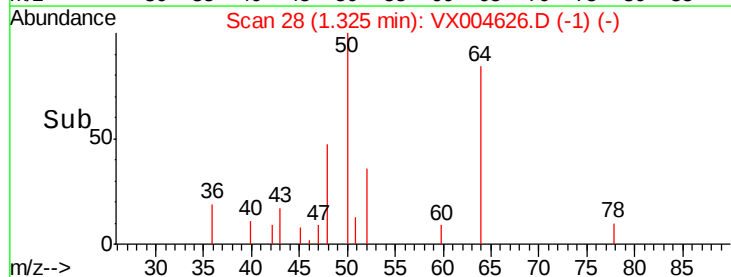
600

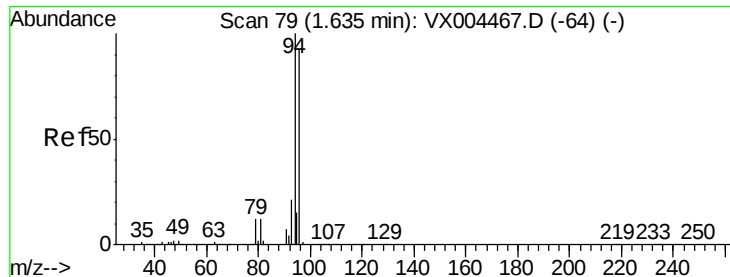
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Instrument :

MSVOA_X

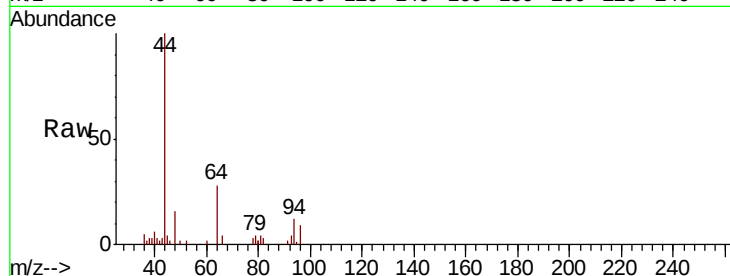
ClientSampleId :

Tot Ion: 94 Resp: 994

Ion Ratio Lower Upper

94 100

96 77.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

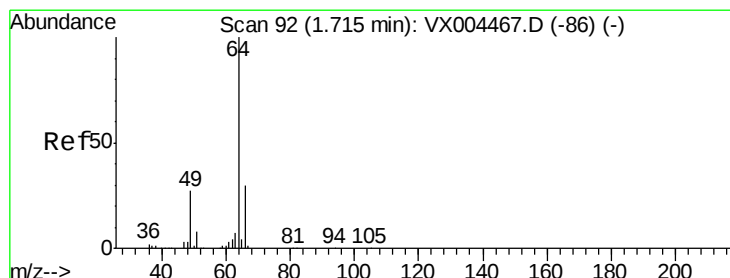
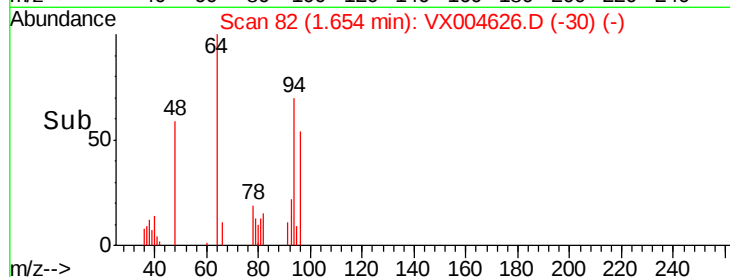
200

100

0

1.60 1.65 1.70 1.75

Time-->



#6

Chloroethane

Concen: 0.28 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX004626.D

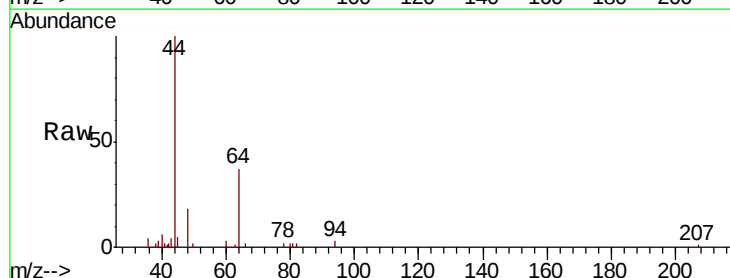
Acq: 17 Sep 2018 18:38

Tgt Ion: 64 Resp: 580

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

1.70

1500

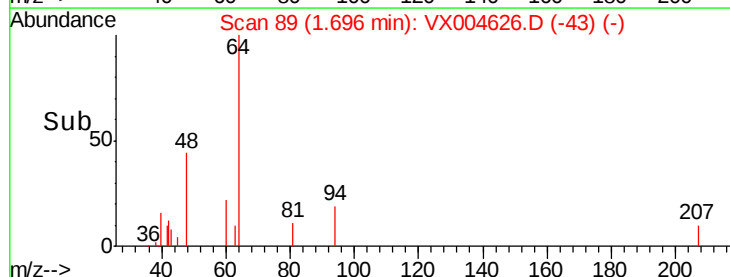
1000

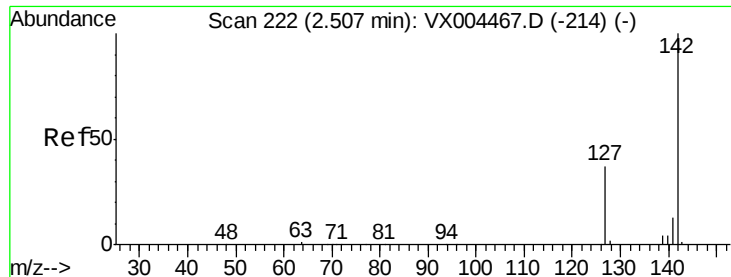
500

0

1.68 1.70 1.72 1.74

Time-->

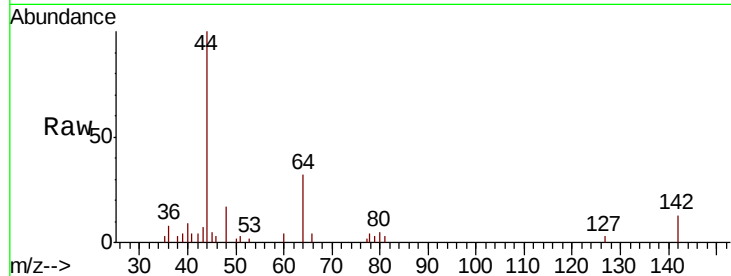




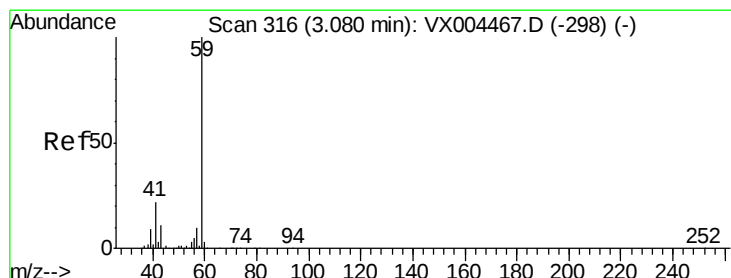
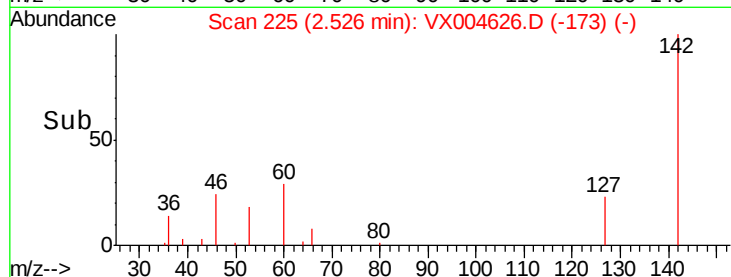
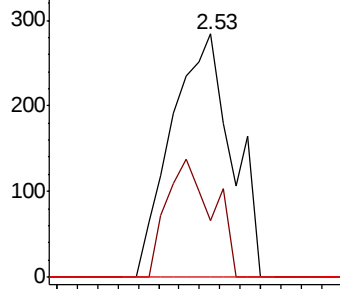
#10
Methvl Iodide
Concen: 4.42 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 583
Ion Ratio Lower Upper
142 100
127 37.0 33.8 50.6
141 0.0 11.4 17.0#

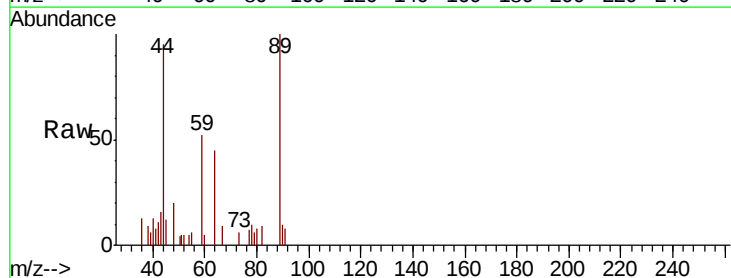


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

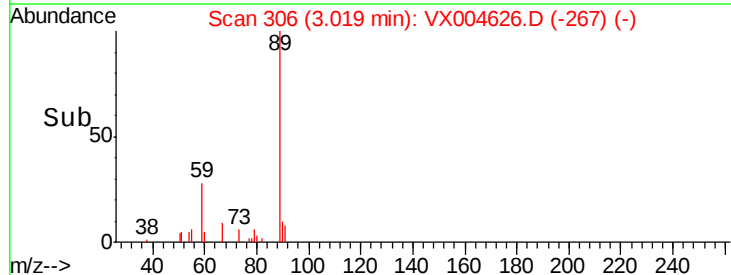
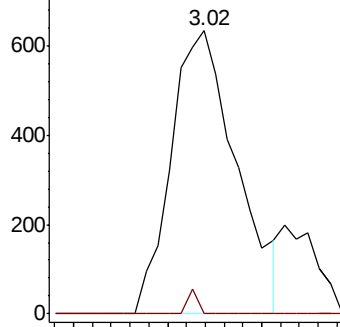


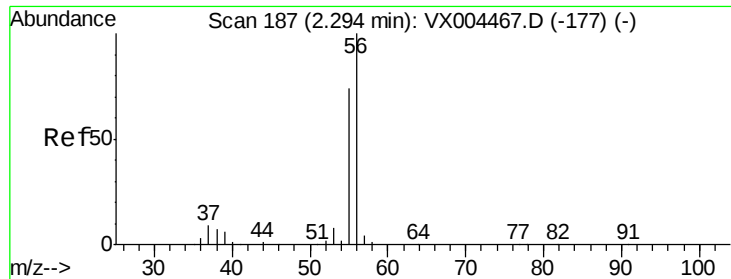
#11
Tert butyl alcohol
Concen: 2.06 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion: 59 Resp: 1517
Ion Ratio Lower Upper
59 100
57 1.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.57 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

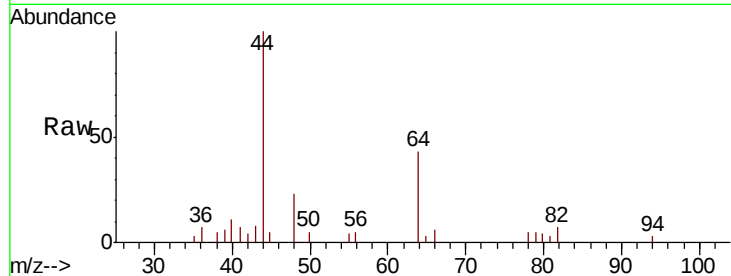
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 165

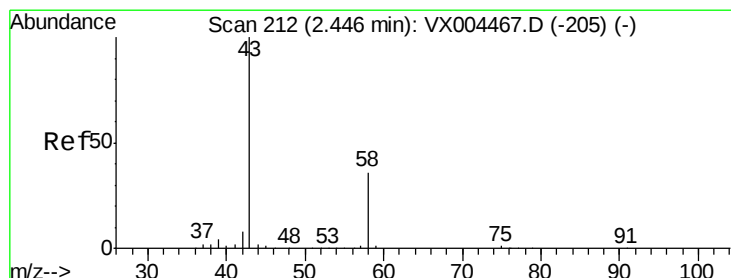
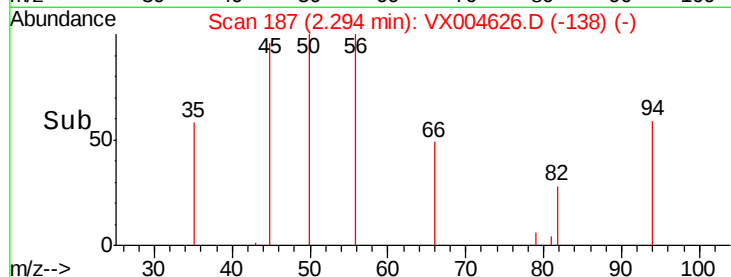
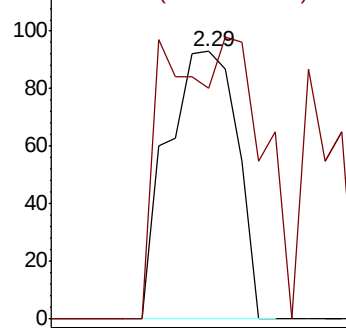
Ion Ratio Lower Upper

56 100

55 76.4 54.7 82.1



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 11.70 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004626.D

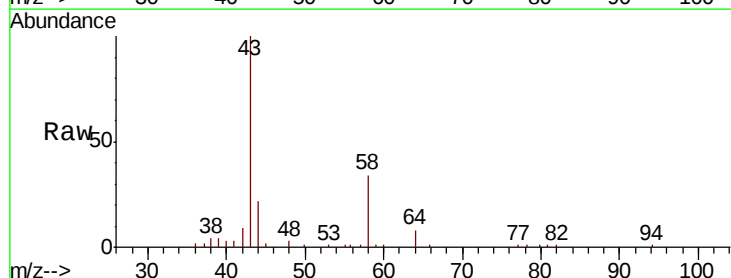
Acq: 17 Sep 2018 18:38

Tgt Ion: 43 Resp: 17606

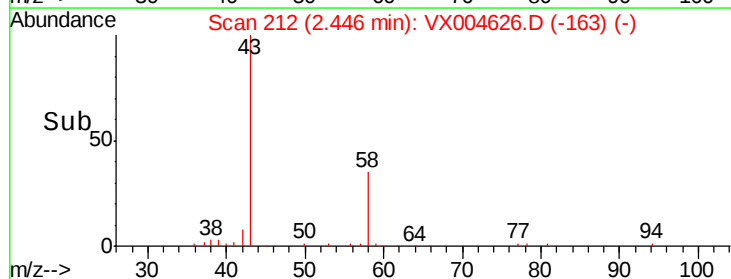
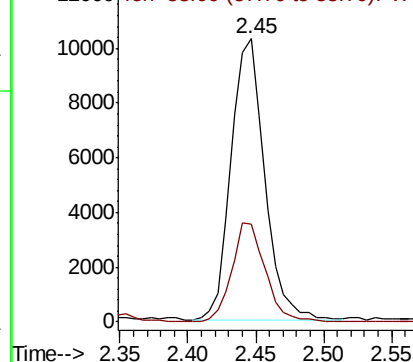
Ion Ratio Lower Upper

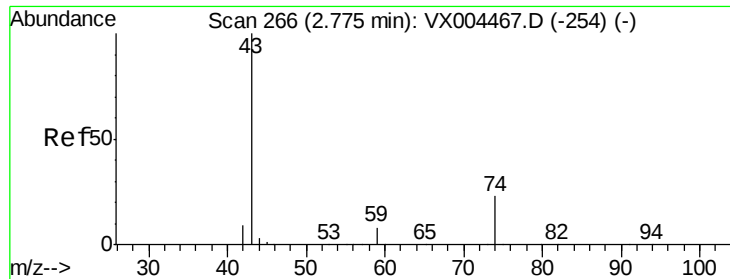
43 100

58 34.8 26.2 39.4



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

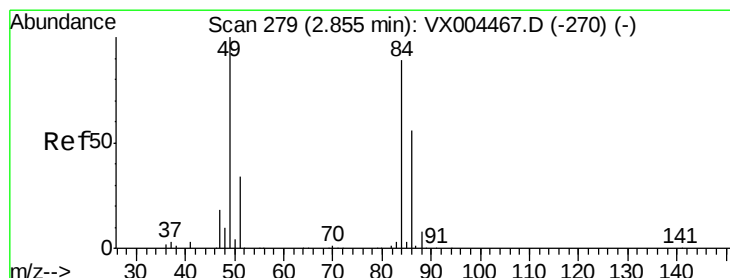
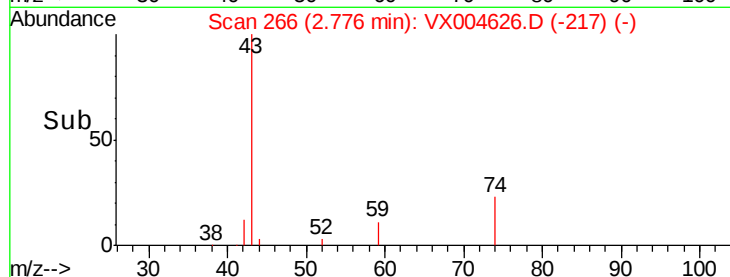
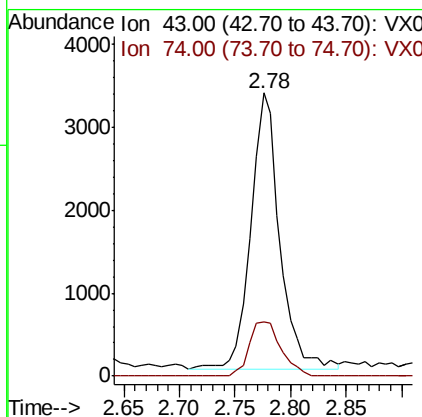
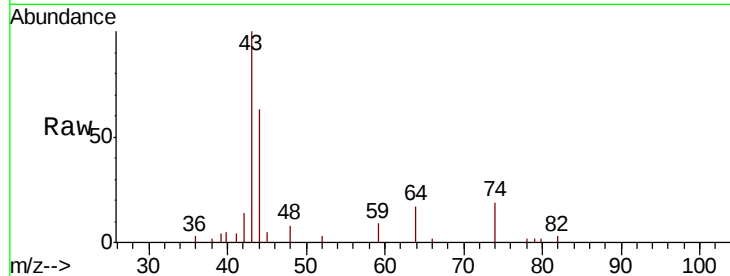




#18
Methyl Acetate
Concen: 1.44 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

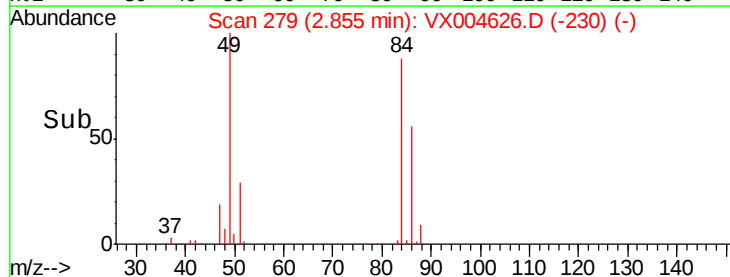
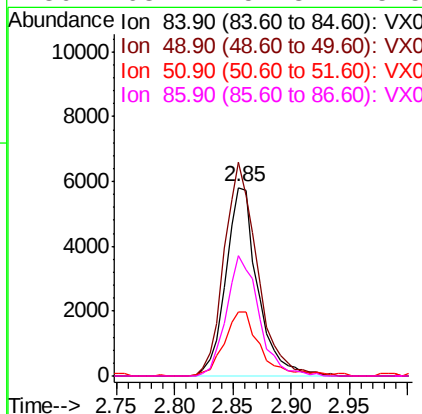
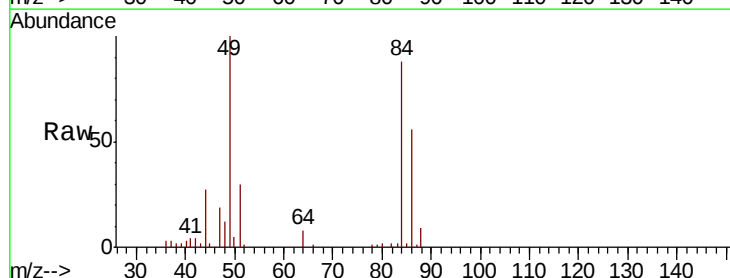
Instrument :
MSVOA_X
ClientSampleId :

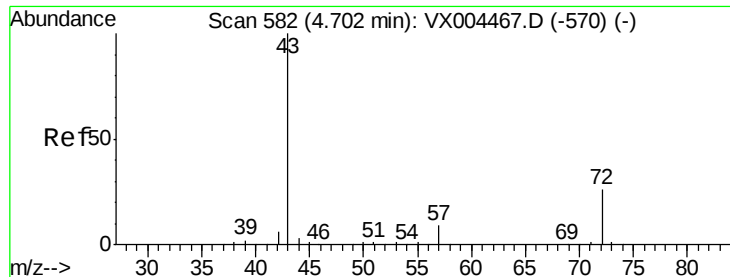
Tot Ion: 43 Resp: 6067
Ion Ratio Lower Upper
43 100
74 21.6 19.4 29.2



#20
Methylene Chloride
Concen: 3.58 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion: 84 Resp: 11062
Ion Ratio Lower Upper
84 100
49 113.5 101.2 151.8
51 34.3 29.5 44.3
86 63.7 52.3 78.5





#25

2-Butanone

Concen: 2.10 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Instrument :

MSVOA_X

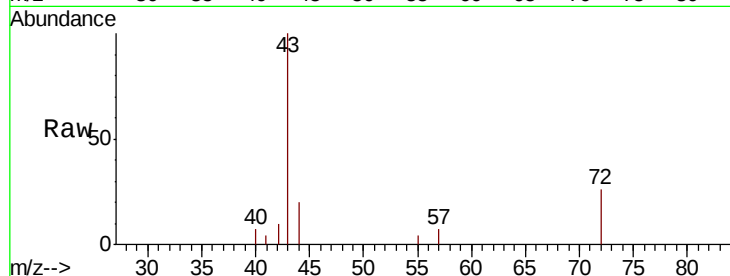
ClientSampleId :

Tot Ion: 43 Resp: 5031

Ion Ratio Lower Upper

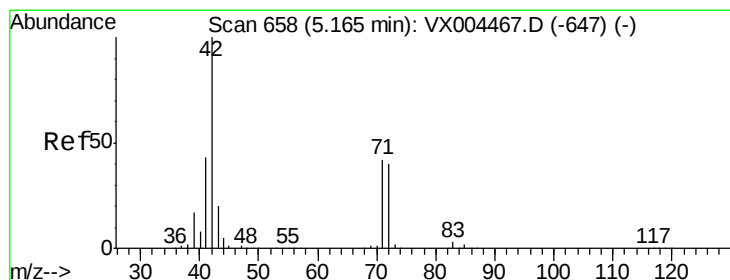
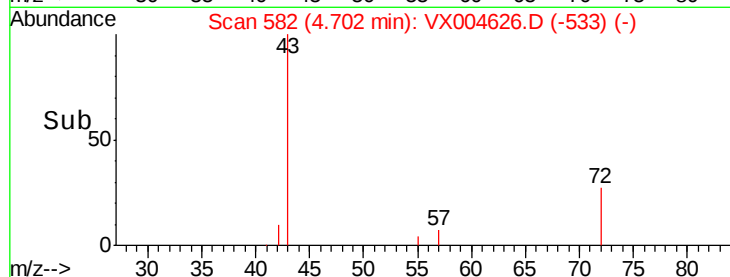
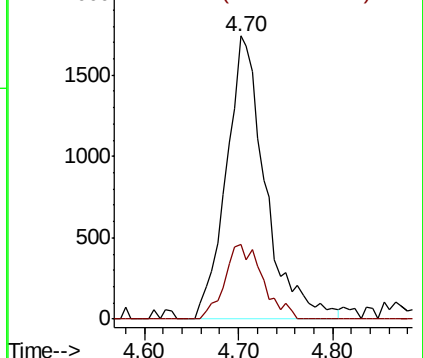
43 100

72 26.3 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: 1.13 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

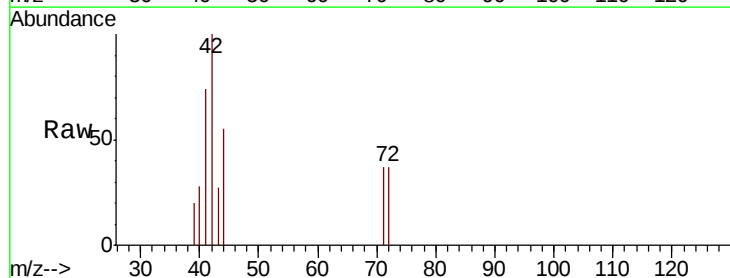
Tgt Ion: 42 Resp: 1632

Ion Ratio Lower Upper

42 100

72 33.9 37.4 56.0#

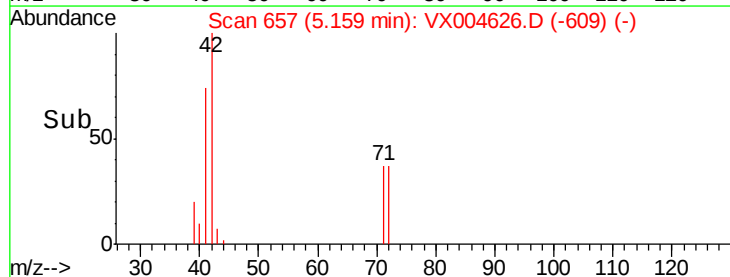
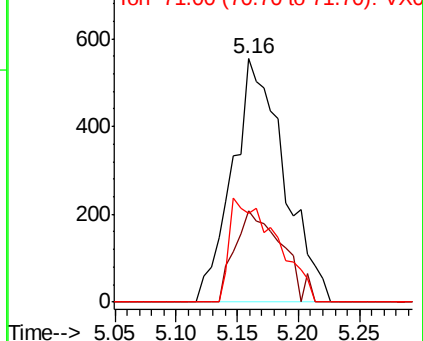
71 38.5 34.5 51.7

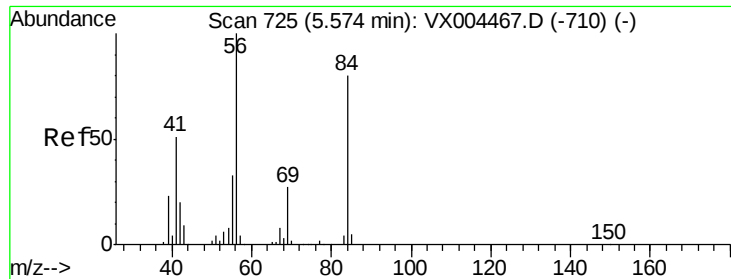


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

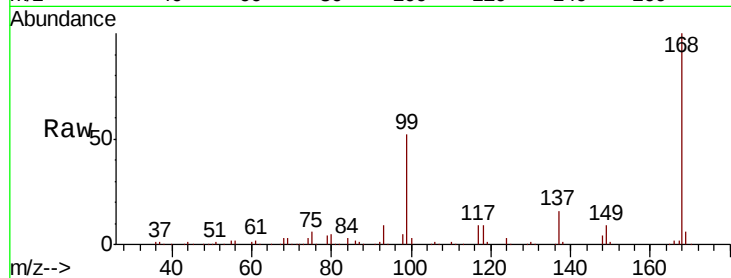




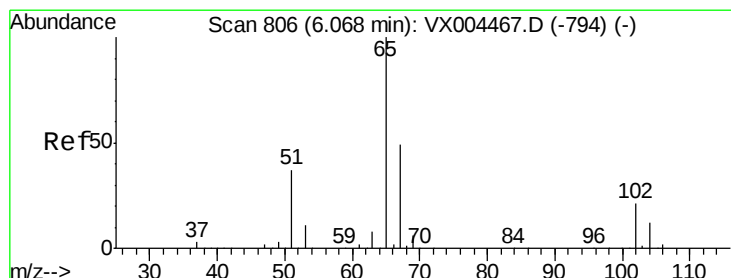
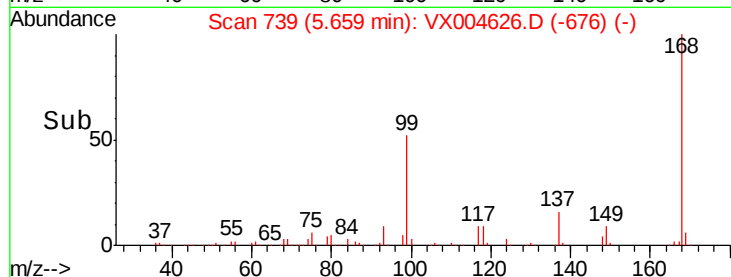
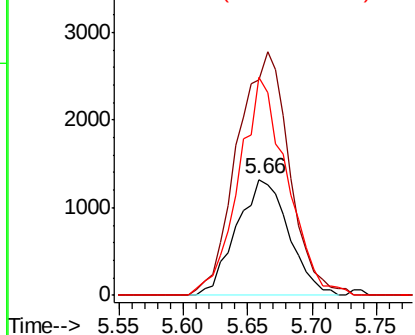
#31
Cyclohexane
Concen: 0.84 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3726
Ion Ratio Lower Upper
56 100
69 186.0 25.4 38.2#
84 187.2 71.4 107.2#

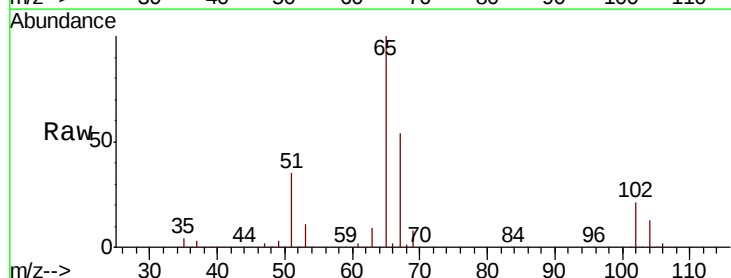


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

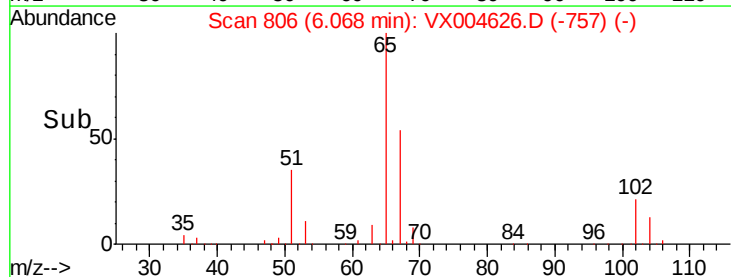
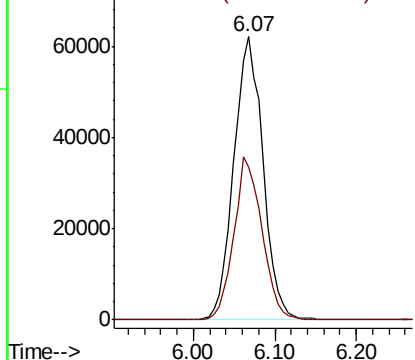


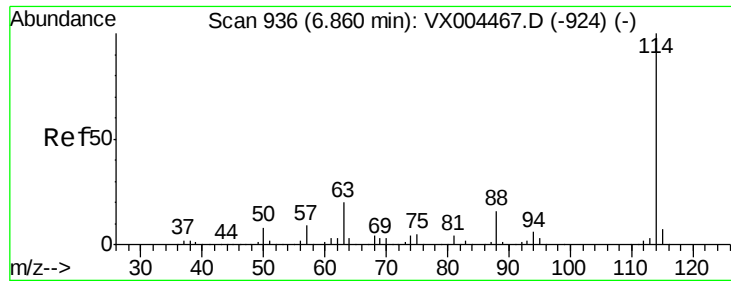
#33
1,2-Dichloroethane-d4
Concen: 49.70 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion: 65 Resp: 153257
Ion Ratio Lower Upper
65 100
67 55.5 0.0 106.8



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

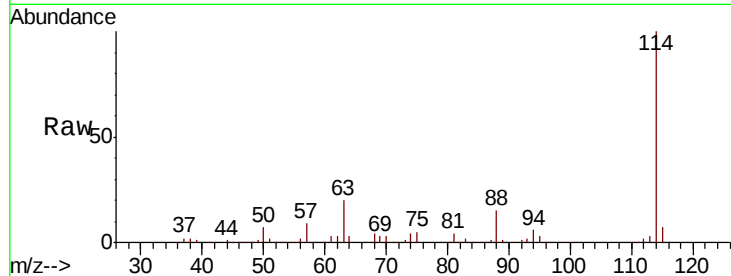




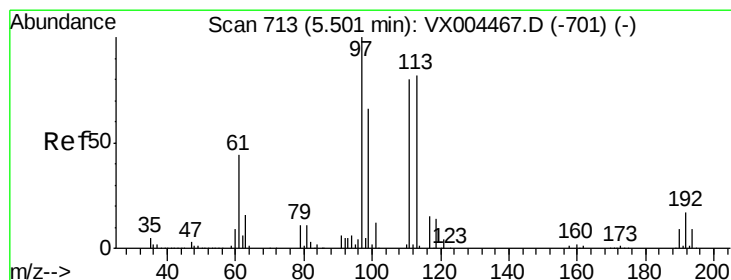
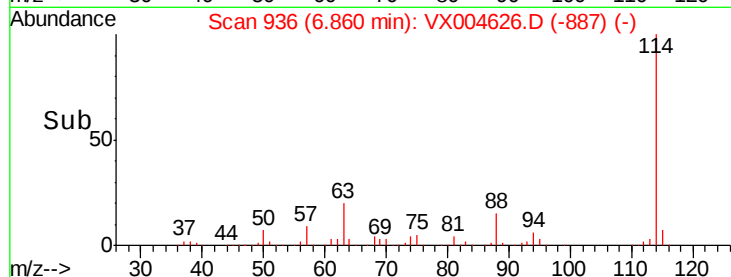
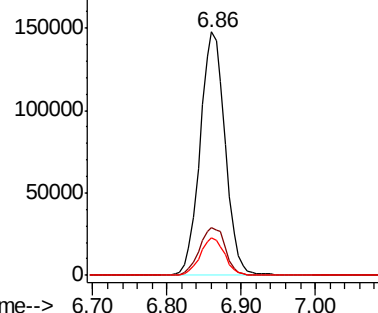
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	39.0
88	15.4	0.0	30.4

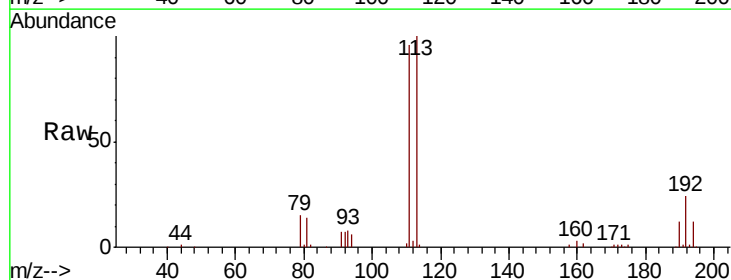


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

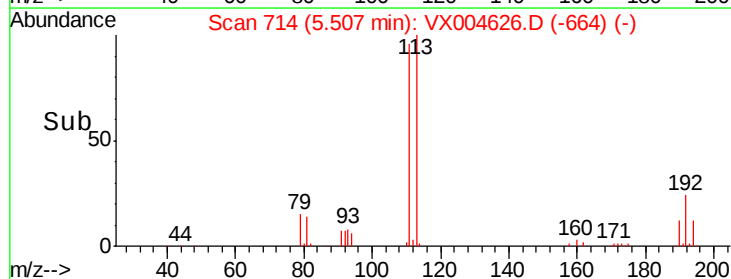
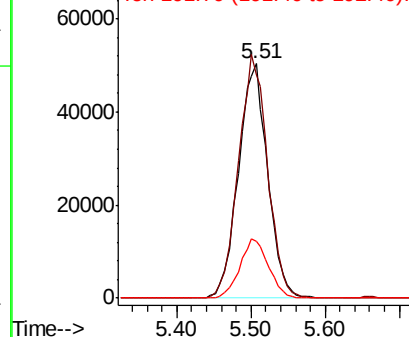


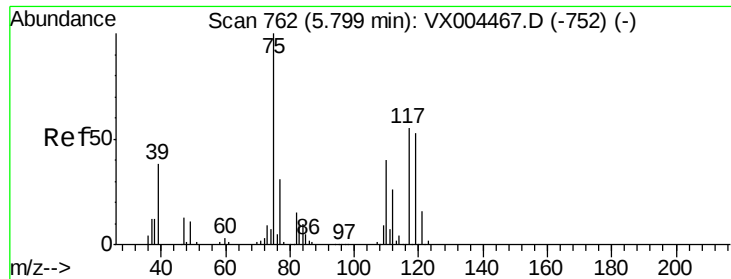
#35
Dibromofluoromethane
Concen: 43.54 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	24.6	19.4	29.2



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: 3.67 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Instrument :

MSVOA_X

ClientSampleId :

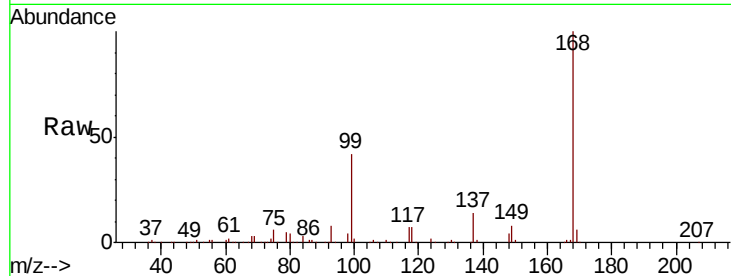
Tot Ion: 75 Resp: 15517

Ion Ratio Lower Upper

75 100

110 9.1 18.0 54.0#

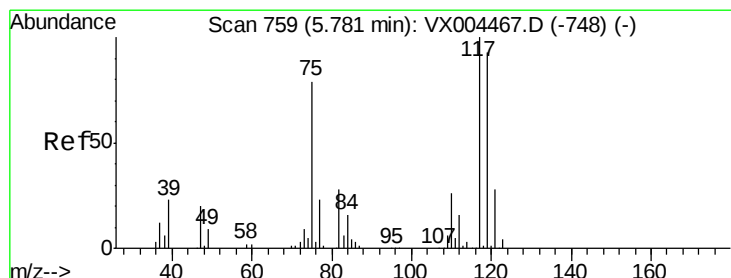
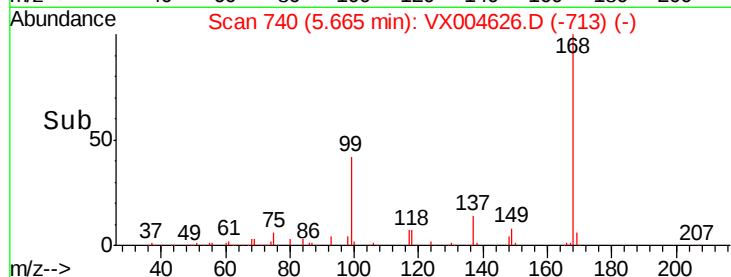
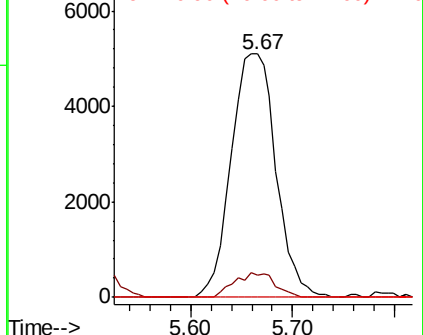
77 0.0 24.6 36.8#



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: 5.12 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

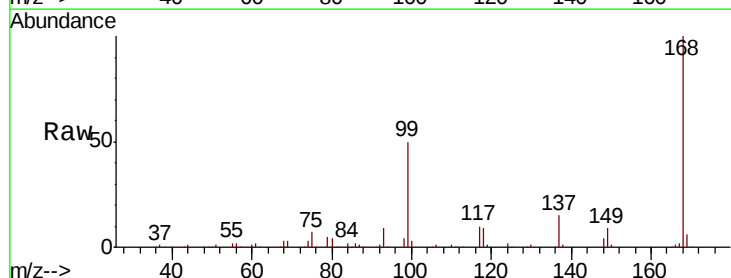
Tgt Ion: 117 Resp: 21124

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

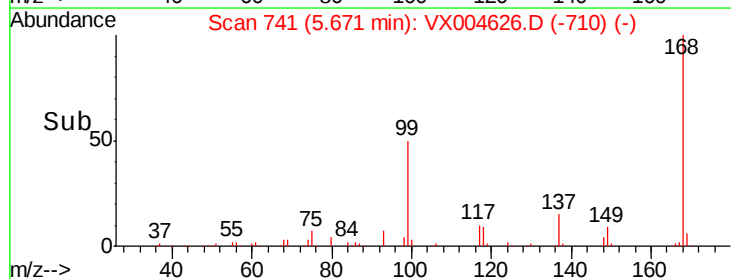
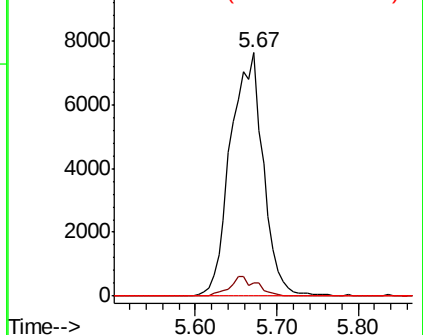
121 0.0 24.9 37.3#

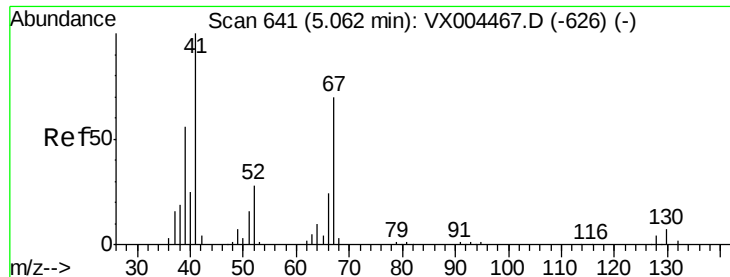


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

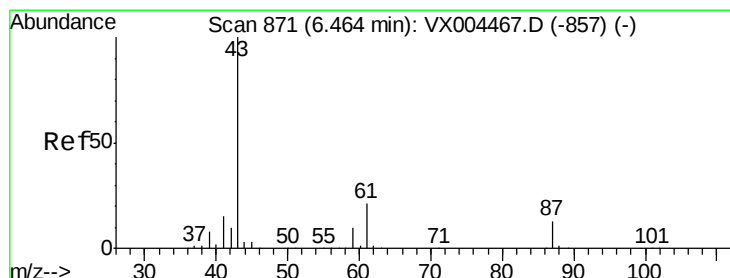
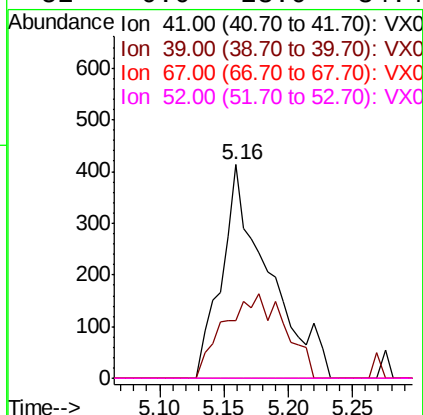
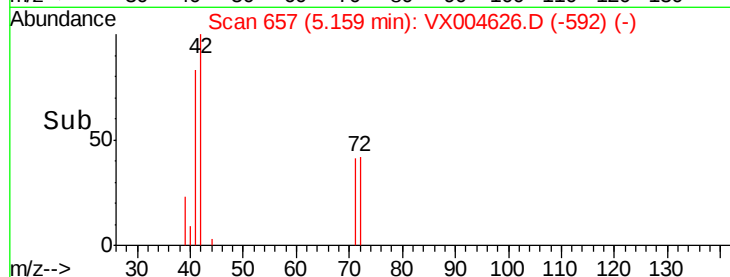
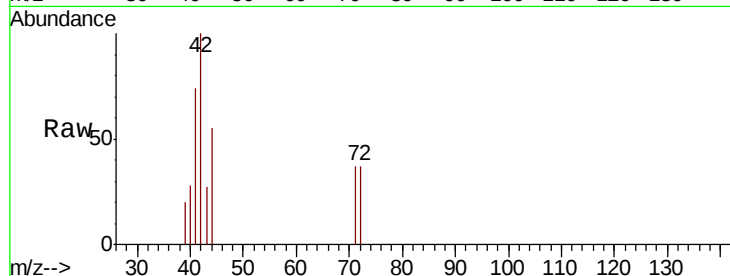




#41
Methacrylonitrile
Concen: 0.40 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

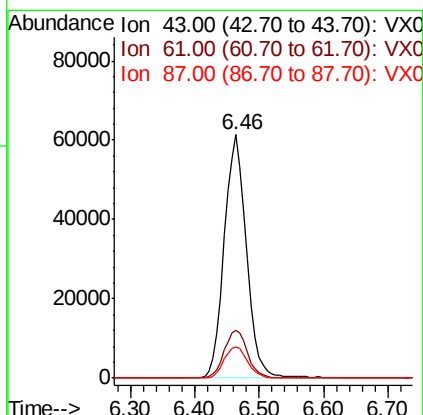
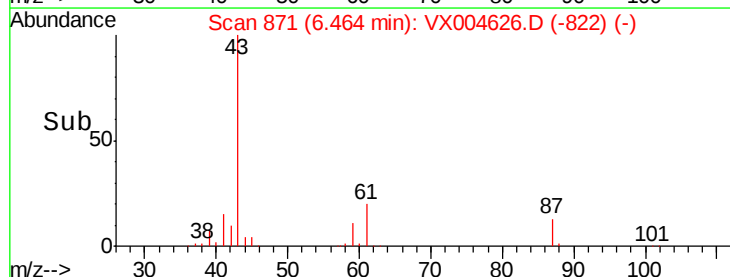
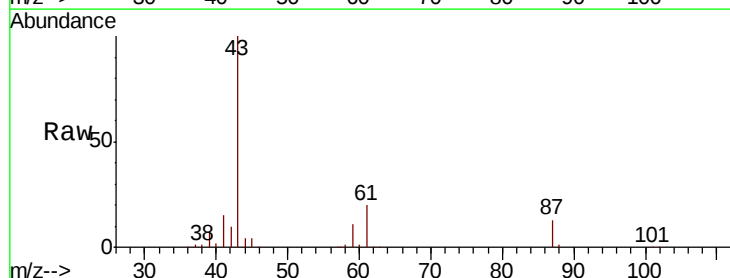
Instrument :
MSVOA_X
ClientSampleId :

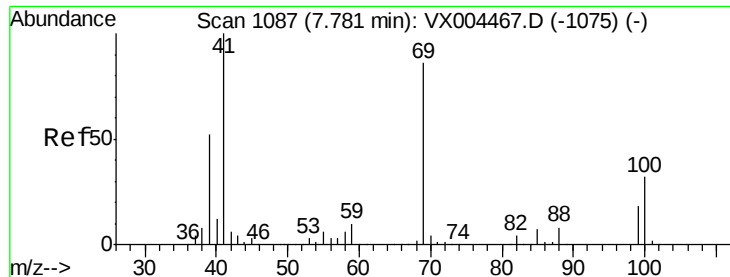
Tot Ion:	41	Resp:	1047
Ion	Ratio	Lower	Upper
41	100		
39	51.1	42.4	63.6
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 23.55 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion:	43	Resp:	150296
Ion	Ratio	Lower	Upper
43	100		
61	20.6	17.0	25.4
87	13.6	11.4	17.2

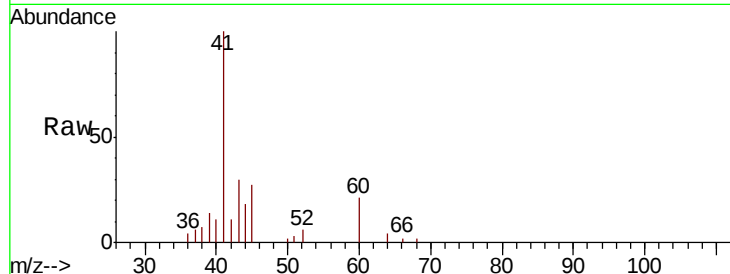




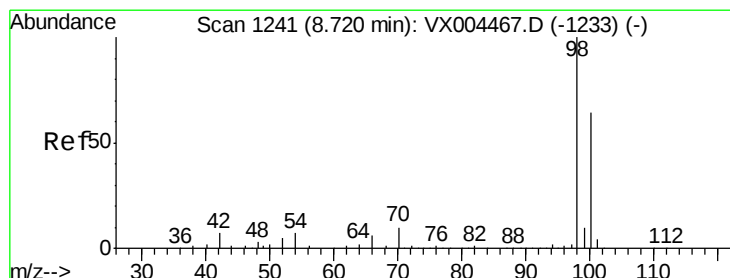
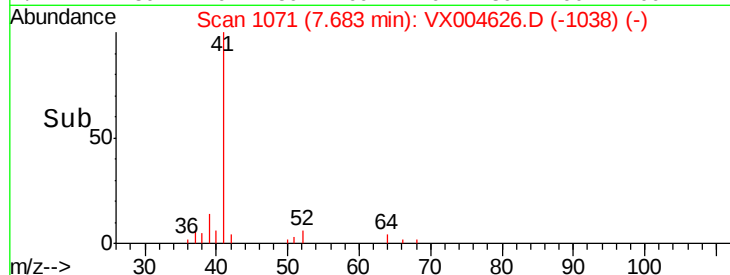
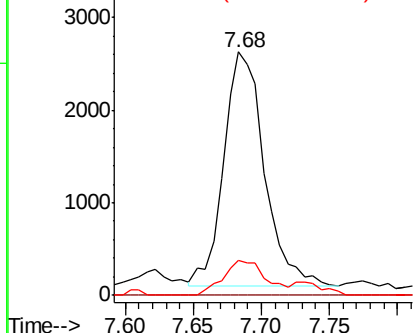
#48
Methvl methacrylate
Concen: 1.65 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 5219
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 15.8 42.7 64.1#

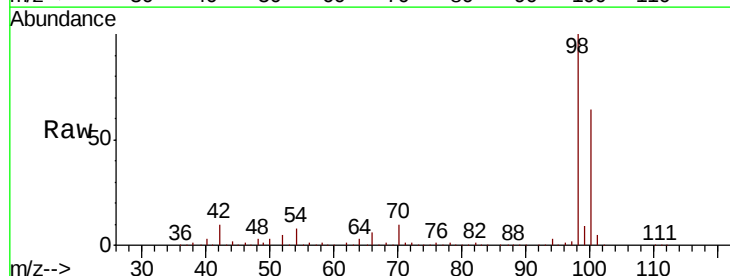


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

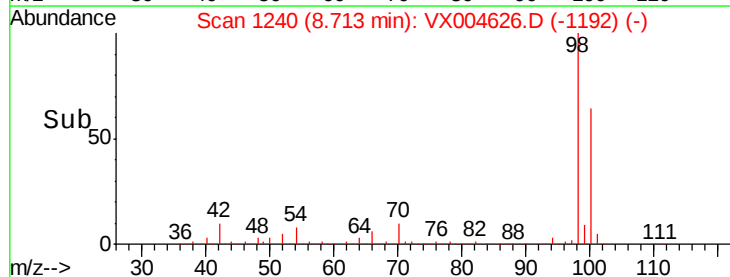
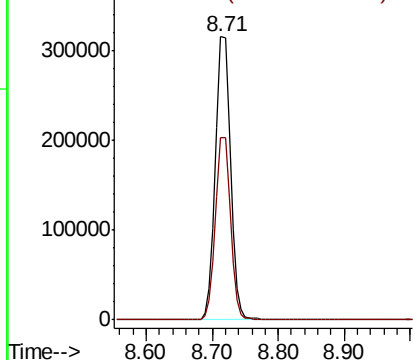


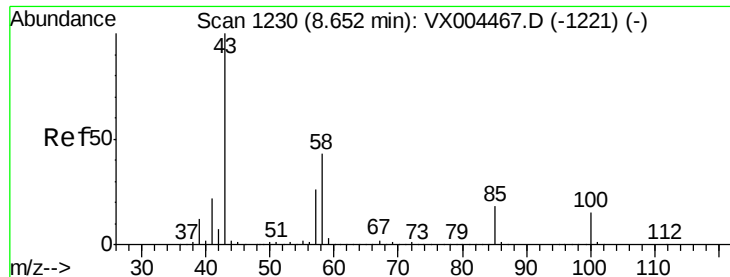
#50
Toluene-d8
Concen: 46.80 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion: 98 Resp: 499703
Ion Ratio Lower Upper
98 100
100 63.9 52.9 79.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.59 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Instrument :

MSVOA_X

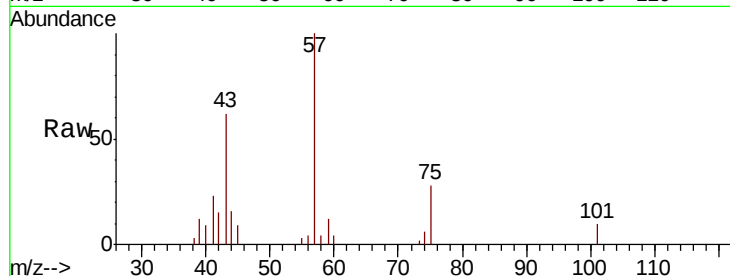
ClientSampleId :

Tot Ion: 43 Resp: 2673

Ion Ratio Lower Upper

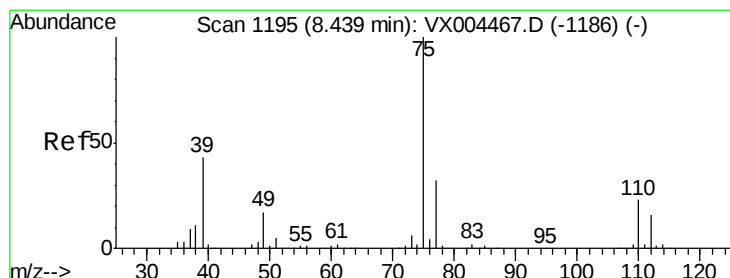
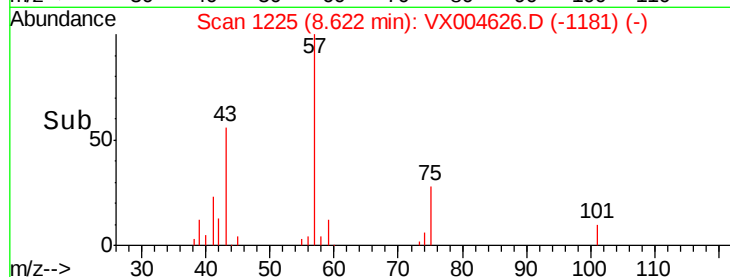
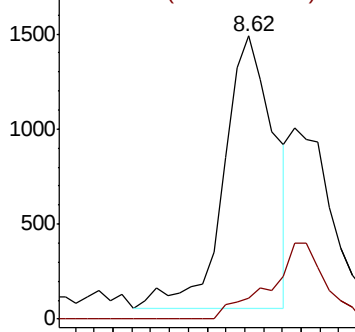
43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.26 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

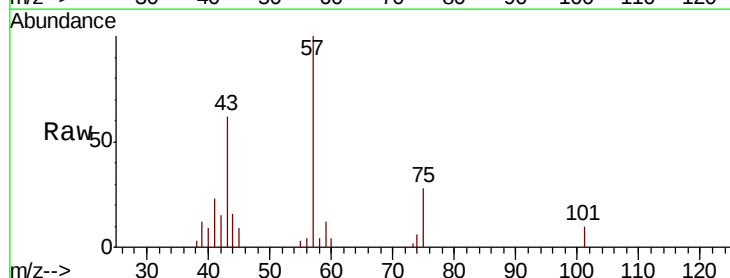
Tgt Ion: 75 Resp: 1122

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

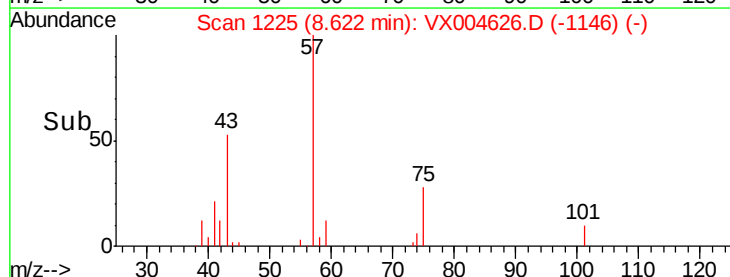
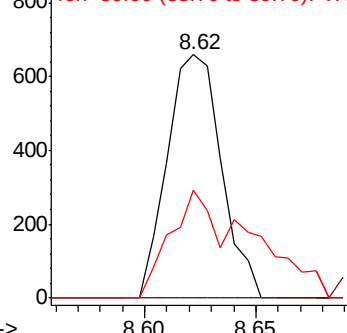
39 44.3 36.4 54.6

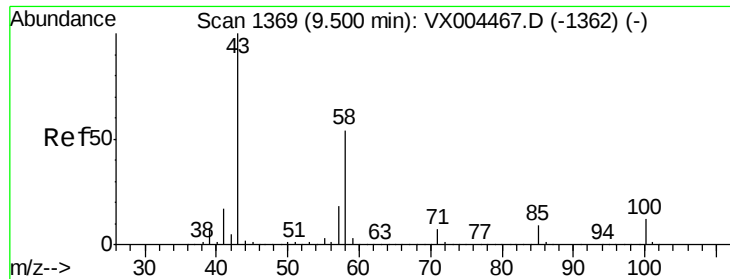


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

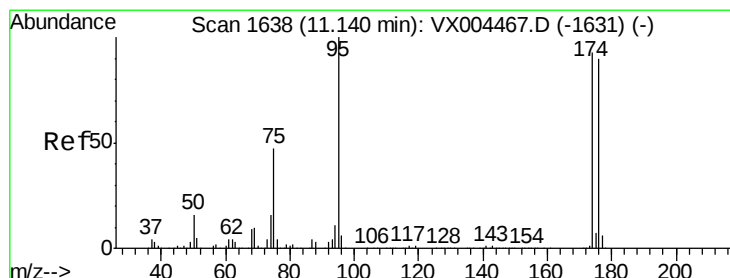
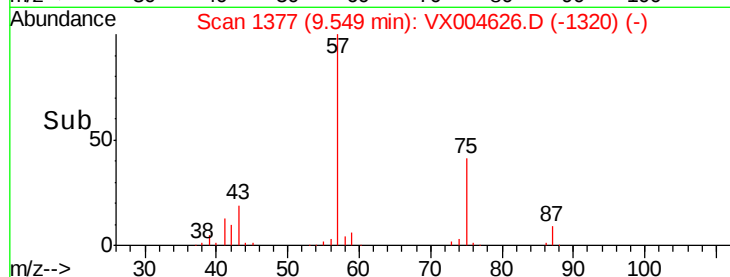
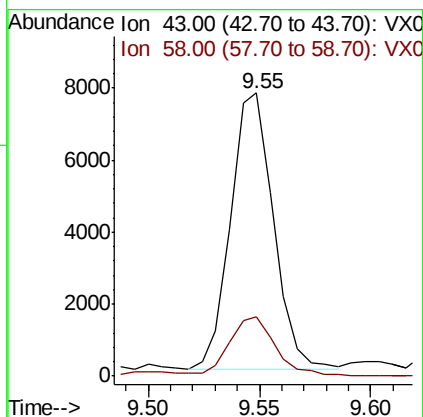
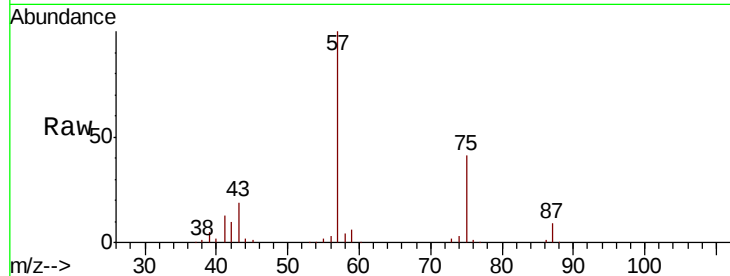




#59
2-Hexanone
Concen: 2.96 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

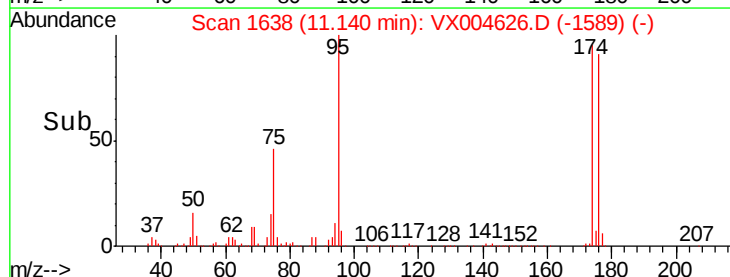
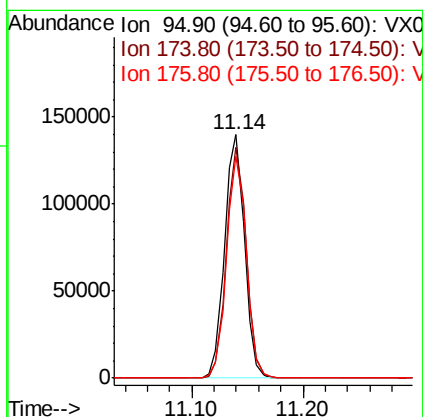
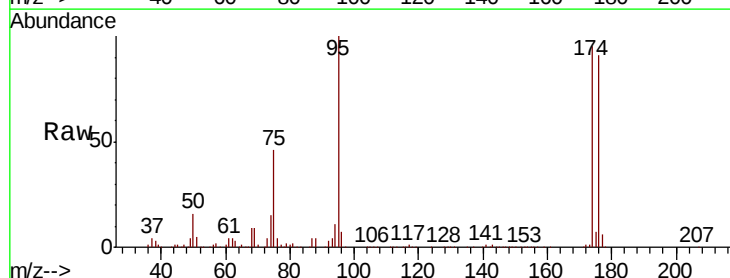
Instrument :
MSVOA_X
ClientSampleId :

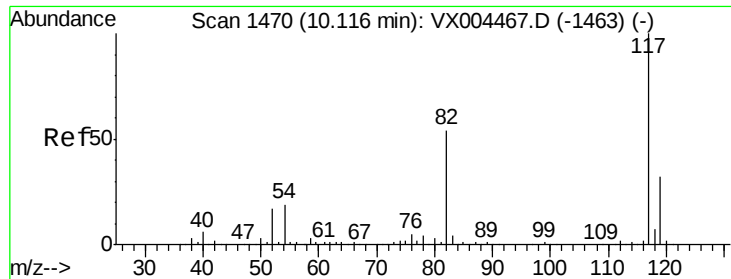
Tot Ion: 43 Resp: 10238
Ion Ratio Lower Upper
43 100
58 23.5 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 45.44 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion: 95 Resp: 173189
Ion Ratio Lower Upper
95 100
174 94.5 0.0 185.2
176 90.7 0.0 178.6

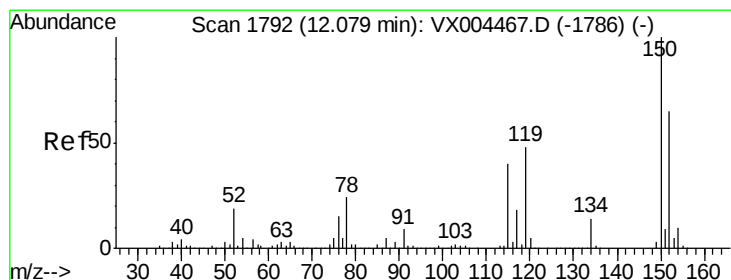
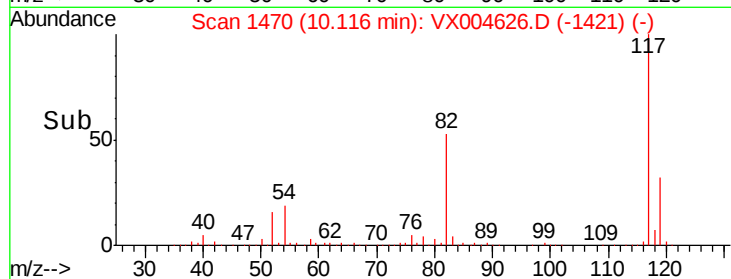
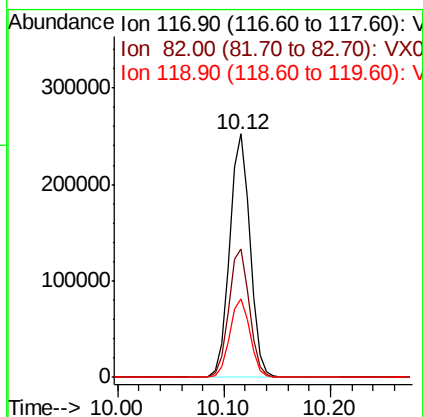
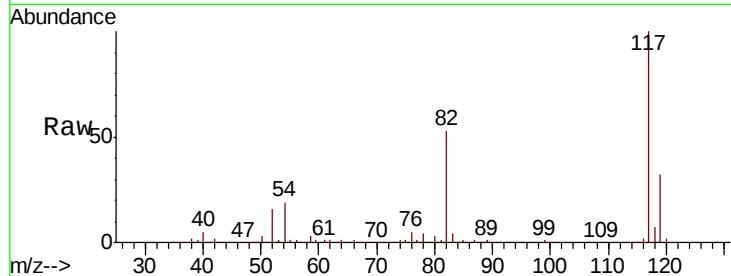




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

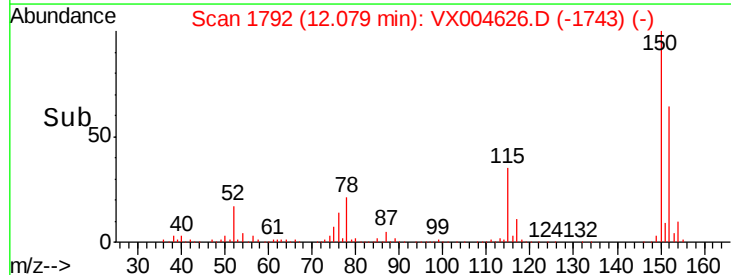
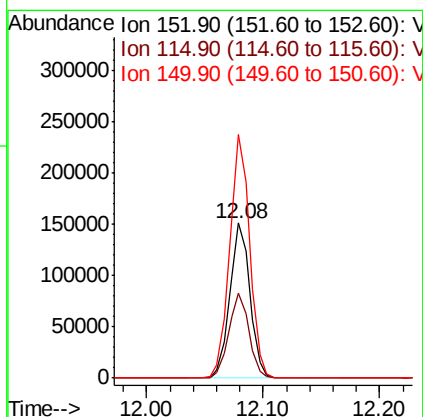
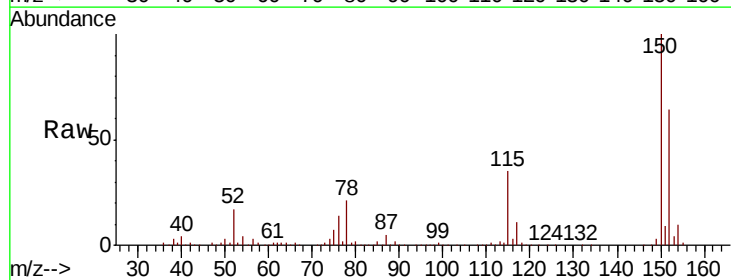
Instrument :
MSVOA_X
ClientSampleId :

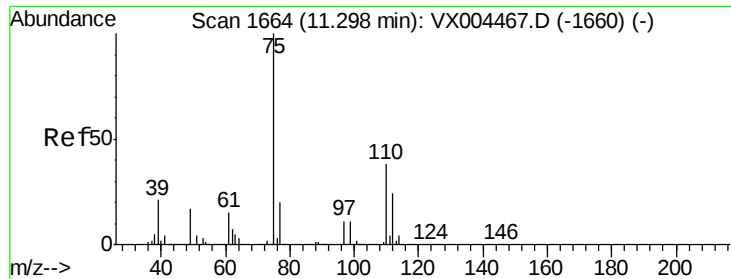
Tot Ion:117 Resp: 339944
Ion Ratio Lower Upper
117 100
82 52.5 47.8 71.6
119 32.5 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004626.D
Acq: 17 Sep 2018 18:38

Tgt Ion:152 Resp: 182011
Ion Ratio Lower Upper
152 100
115 54.5 39.0 117.0
150 156.1 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.15 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Instrument :

MSVOA_X

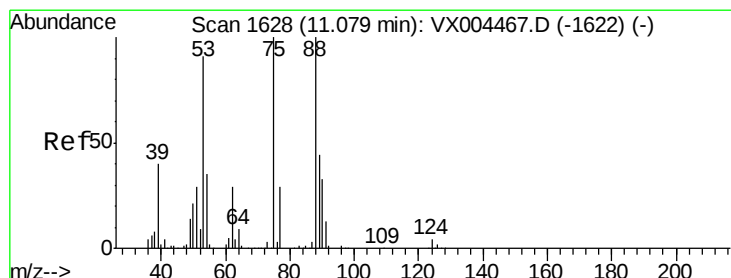
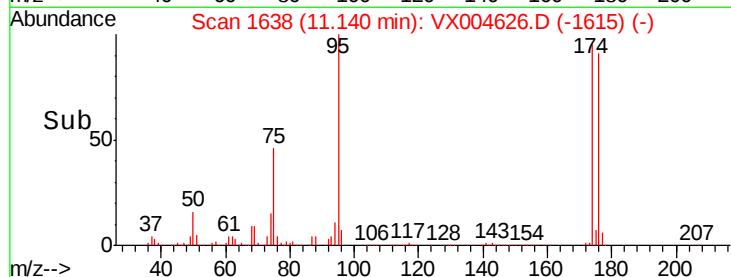
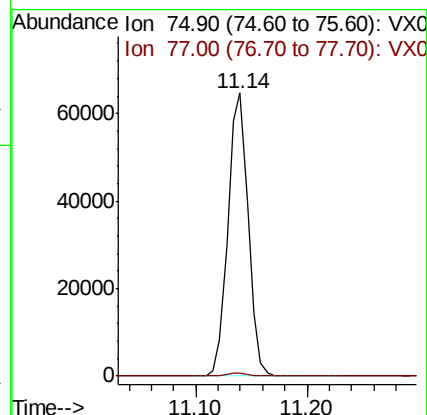
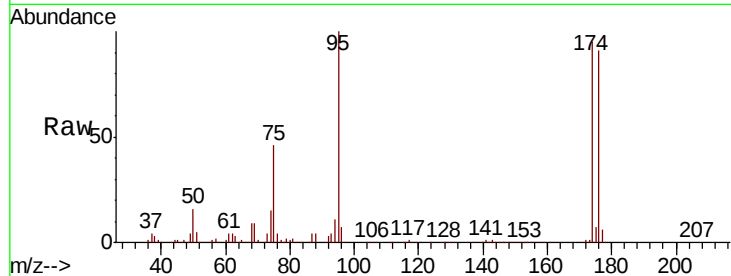
ClientSampleId :

Tot Ion: 75 Resp: 81116

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.61 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004626.D

Acq: 17 Sep 2018 18:38

Tgt Ion: 75 Resp: 81116

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

