

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004629.D
 Acq On : 17 Sep 2018 19:58
 Operator : JC/MD
 Sample : PB112894ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:56:05 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	220336	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	324329	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	312414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	178726	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	146426	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
35) Dibromofluoromethane	5.51	113	140502	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	8.71	98	457686	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
62) 4-Bromofluorobenzene	11.14	95	156911	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	

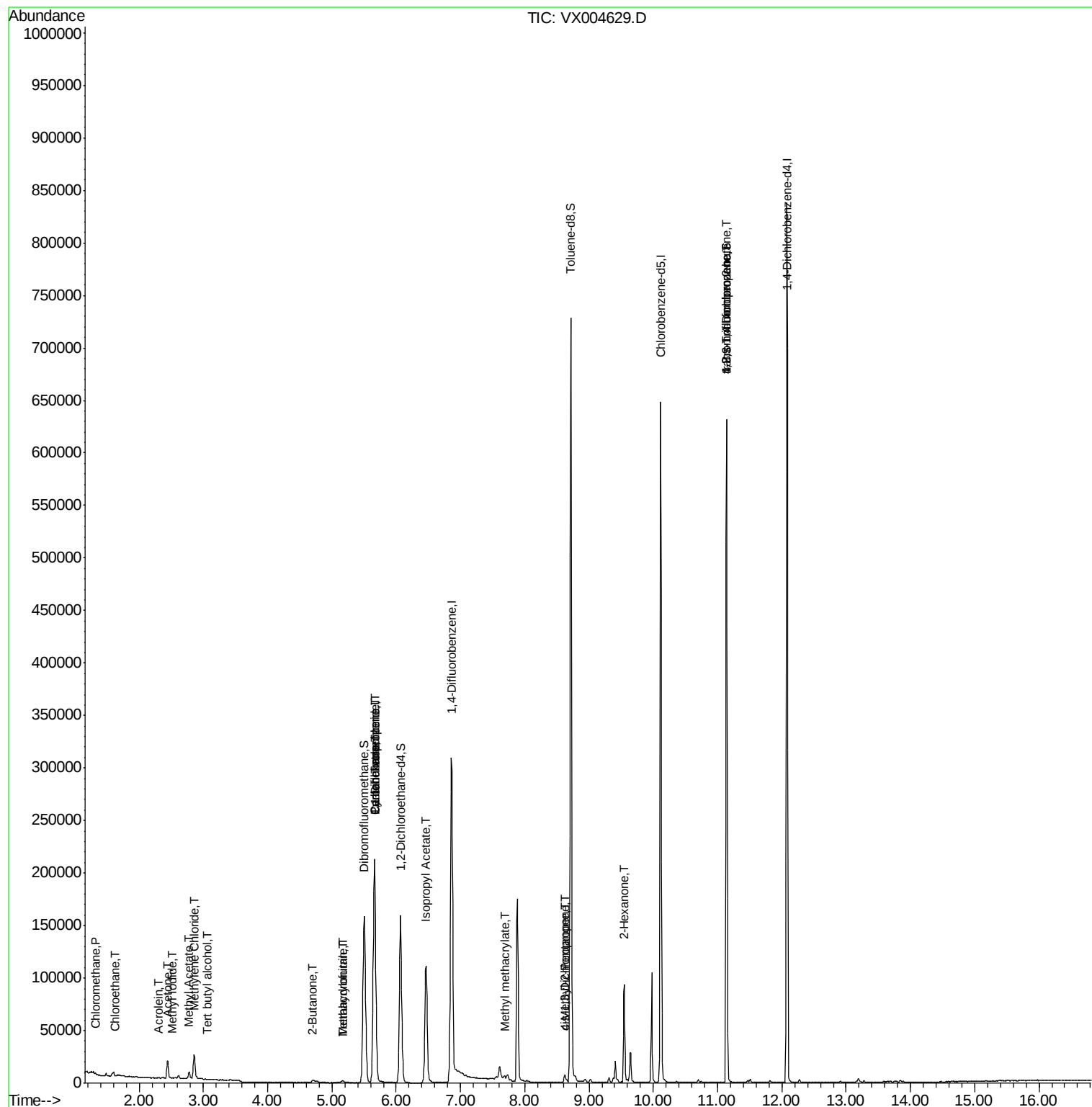
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	604	0.21	ug/l	98
5) Bromomethane	1.65	94	772	Below Cal		96
6) Chloroethane	1.64	64	3977	2.11	ug/l #	55
10) Methyl Iodide	2.52	142	306	4.35	ug/l #	41
11) Tert butyl alcohol	3.07	59	298	0.44	ug/l #	72
13) Acrolein	2.31	56	72	0.27	ug/l #	16
16) Acetone	2.44	43	18042	13.01	ug/l	94
18) Methyl Acetate	2.78	43	7904	2.03	ug/l	99
20) Methylene Chloride	2.85	84	10941	3.85	ug/l	89
25) 2-Butanone	4.70	43	4911	2.23	ug/l #	89
29) Tetrahydrofuran	5.16	42	1623	1.22	ug/l	88
31) Cyclohexane	5.66	56	3435	0.84	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13480	3.42	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19484	5.07	ug/l #	15
41) Methacrylonitrile	5.17	41	931	0.38	ug/l #	38
43) Isopropyl Acetate	6.46	43	147554	24.81	ug/l	99
48) Methyl methacrylate	7.69	41	5354	1.82	ug/l #	23
51) 4-Methyl-2-Pentanone	8.62	43	2237	0.53	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1149	0.29	ug/l #	71
59) 2-Hexanone	9.55	43	10106	3.14	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	74129	20.62	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74129	65.71	ug/l #	10

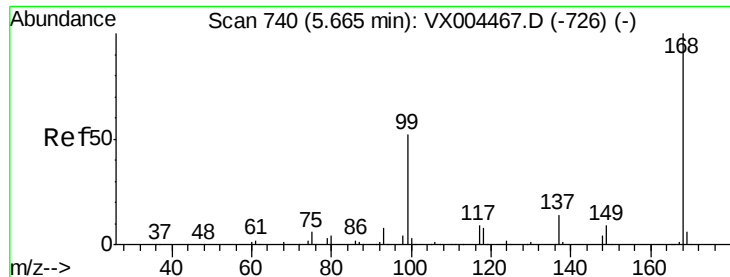
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Sep 18 00:56:05 2018
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: VX004629.D

Acq: 17 Sep 2018 19:58

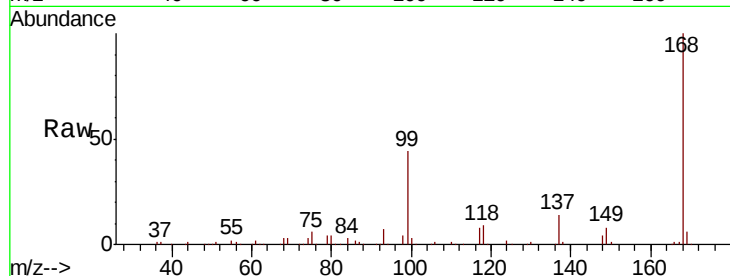
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 220336

Ion Ratio Lower Upper

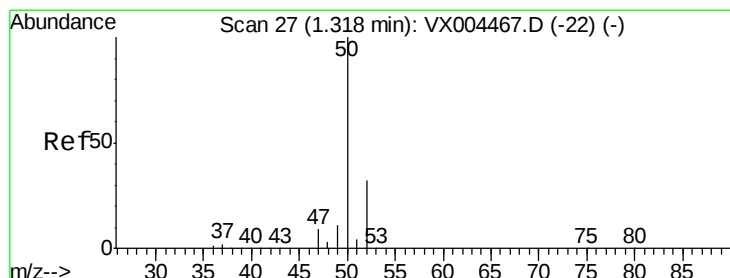
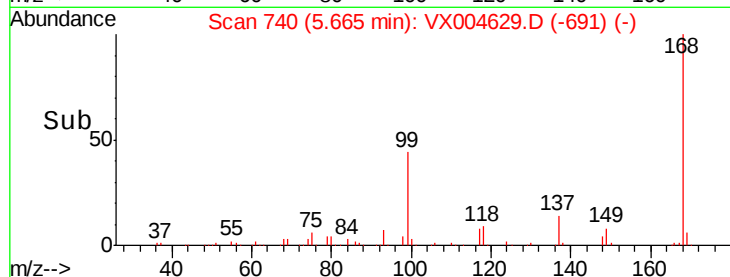
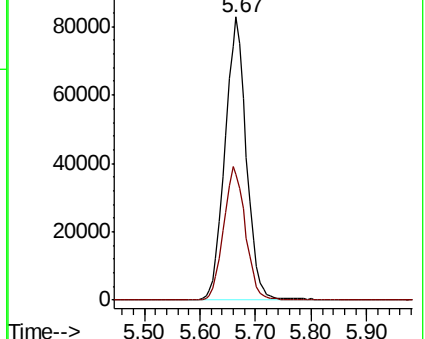
168 100

99 44.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004629.D

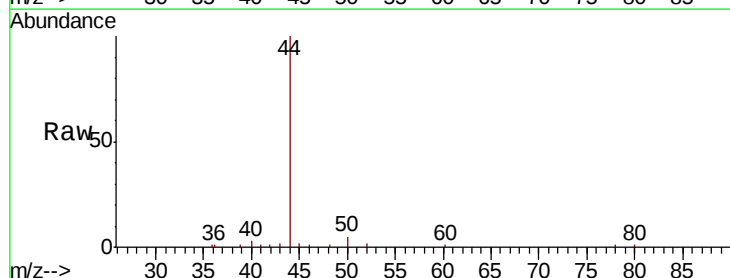
Acq: 17 Sep 2018 19:58

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

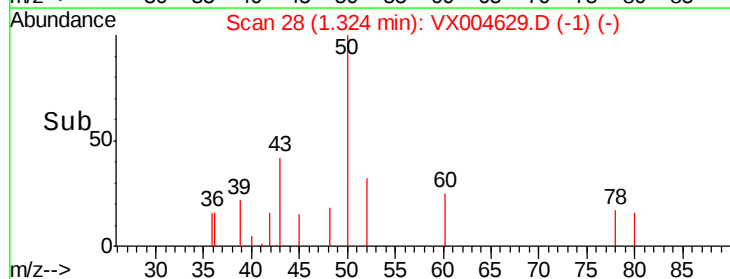
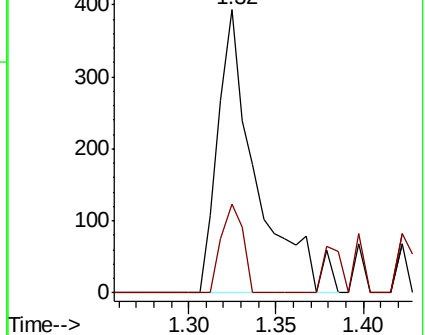
50 100

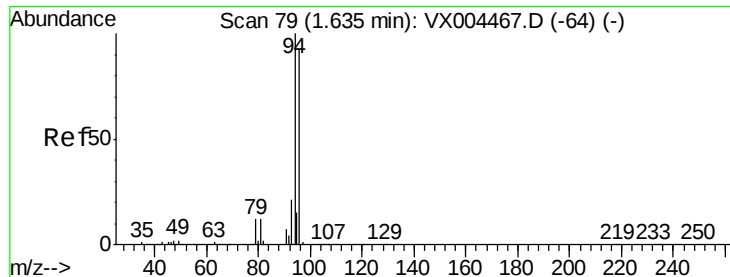
52 31.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Instrument :

MSVOA_X

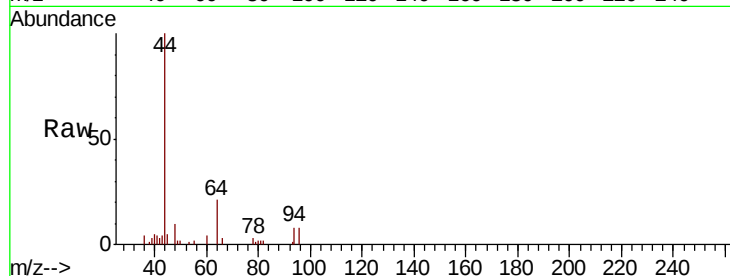
ClientSampled :

Tot Ion: 94 Resp: 772

Ion Ratio Lower Upper

94 100

96 97.0 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

300

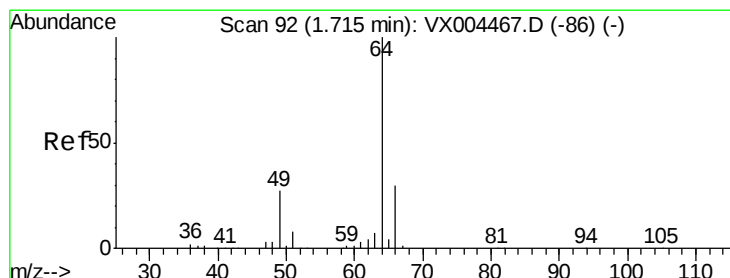
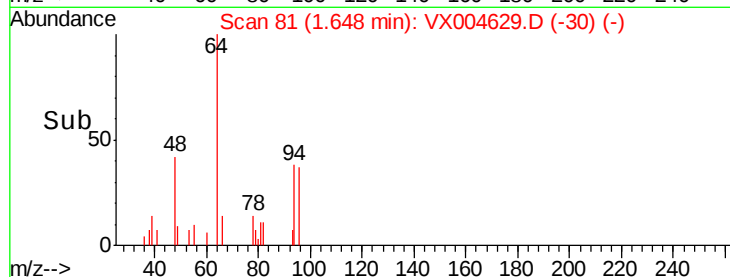
200

100

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 2.11 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.08 min

Lab File: VX004629.D

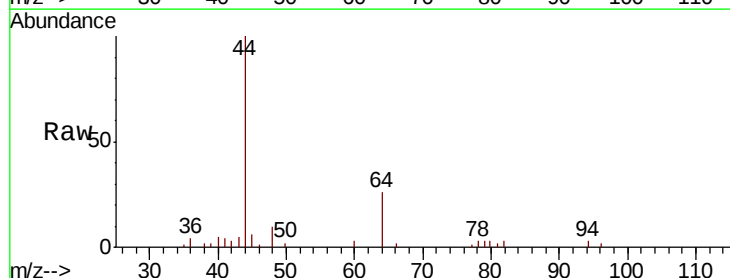
Acq: 17 Sep 2018 19:58

Tgt Ion: 64 Resp: 3977

Ion Ratio Lower Upper

64 100

66 6.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.64

1200

1000

800

600

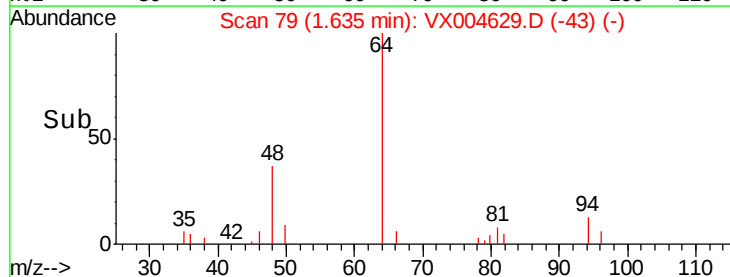
400

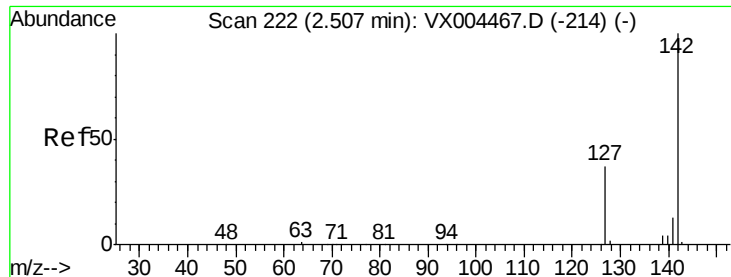
200

0

1.50 1.60

Time-->

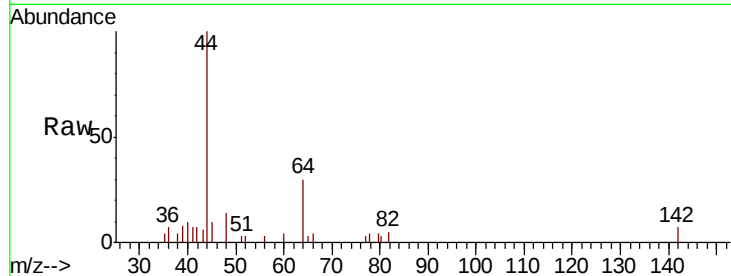




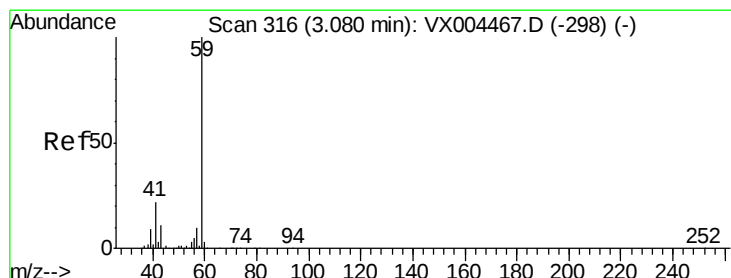
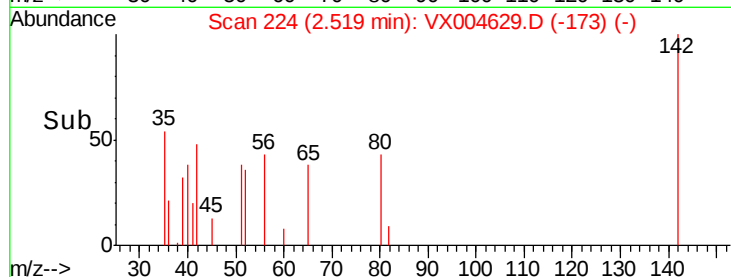
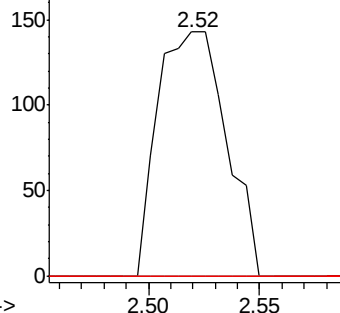
#10
Methyl Iodide
Concen: 4.35 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 306
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

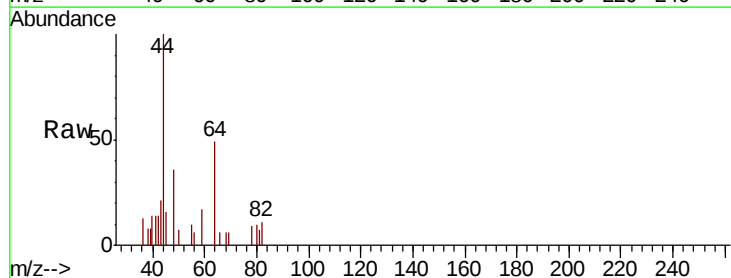


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

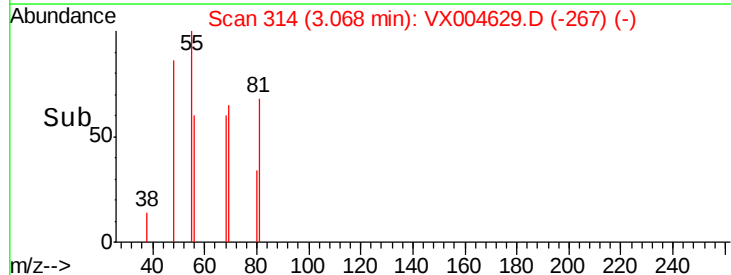
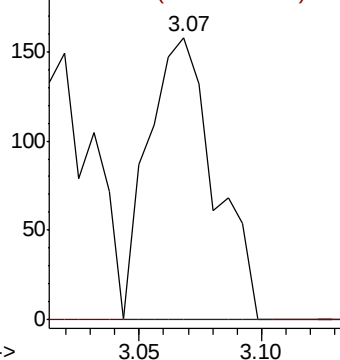


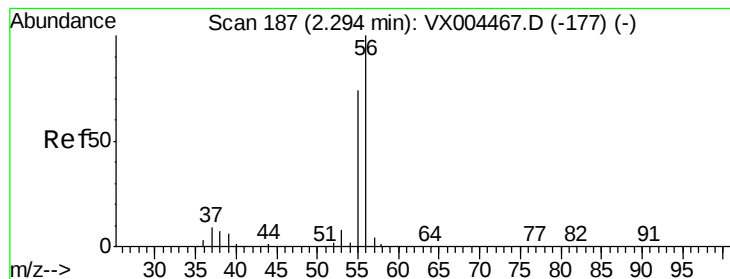
#11
Tert butyl alcohol
Concen: 0.44 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Tgt Ion: 59 Resp: 298
Ion Ratio Lower Upper
59 100
57 0.0 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: 0.27 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Instrument :

MSVOA_X

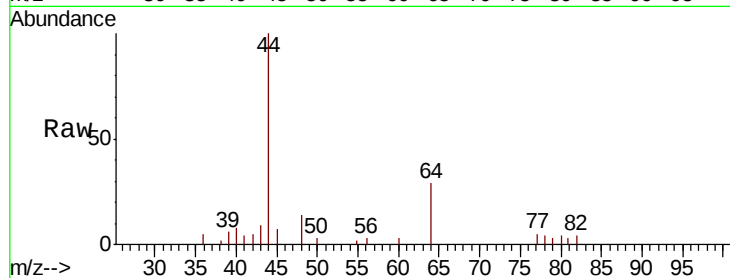
ClientSampled :

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

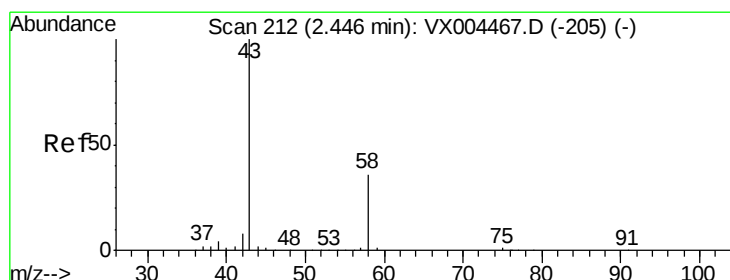
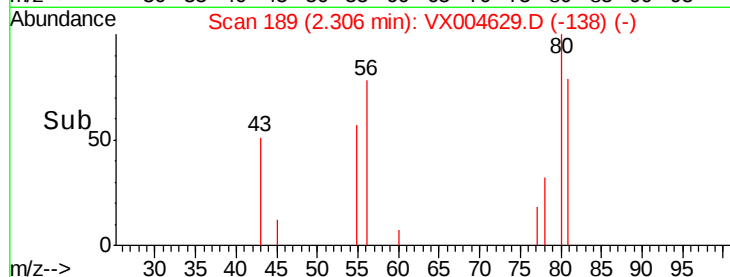
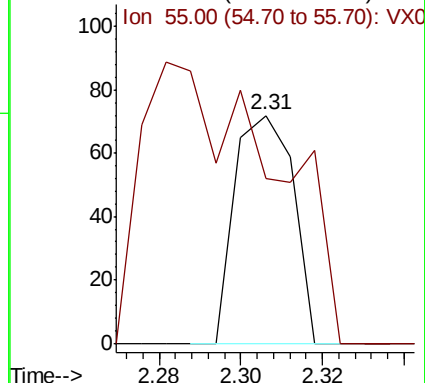
56 100

55 0.0 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: 13.01 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004629.D

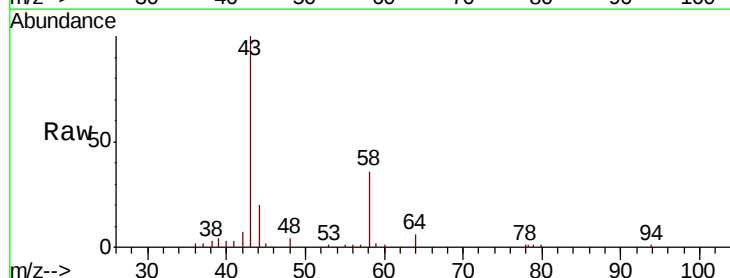
Acq: 17 Sep 2018 19:58

Tgt Ion: 43 Resp: 18042

Ion Ratio Lower Upper

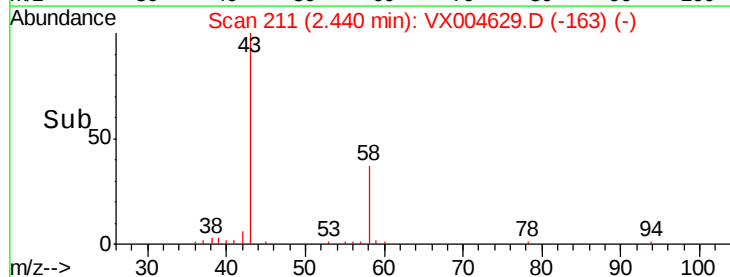
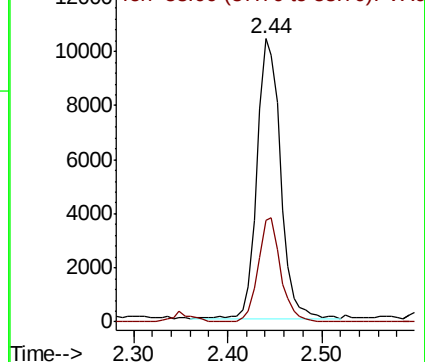
43 100

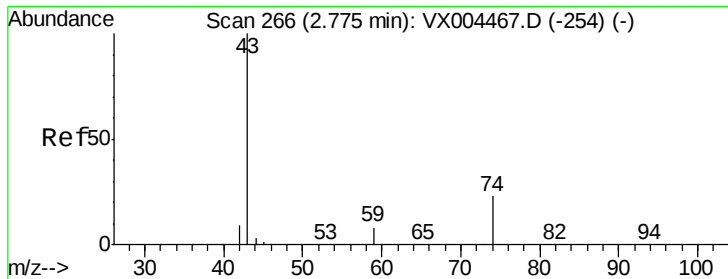
58 36.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

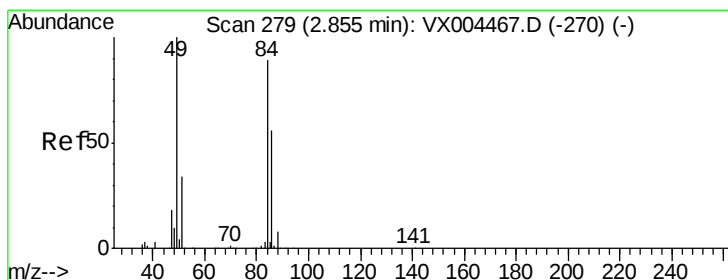
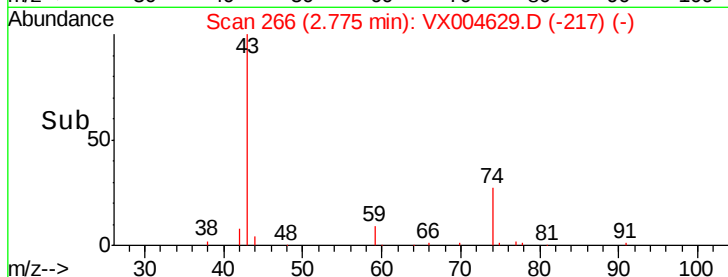
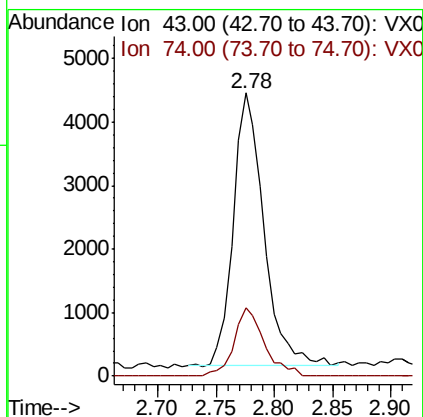
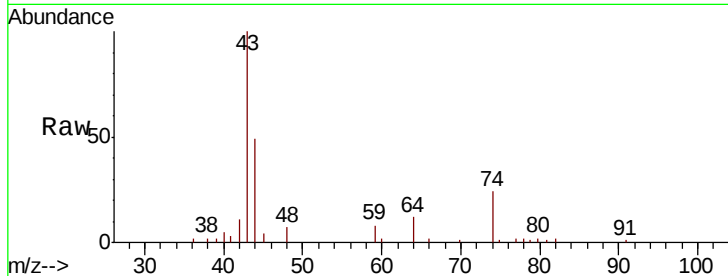




#18
Methyl Acetate
Concen: 2.03 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

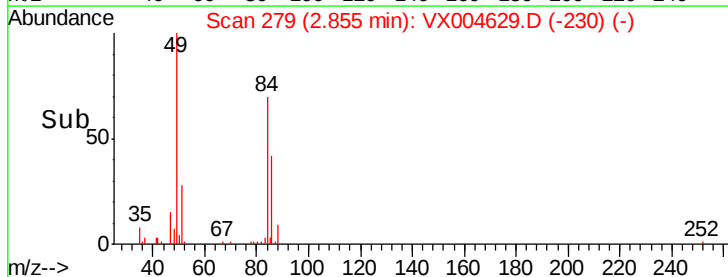
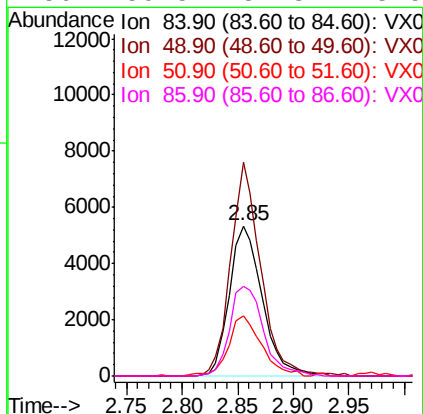
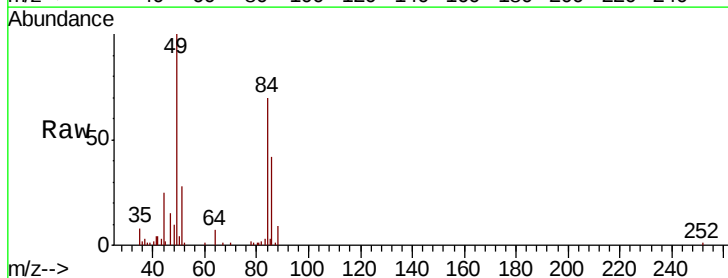
Instrument :
MSVOA_X
ClientSampled :

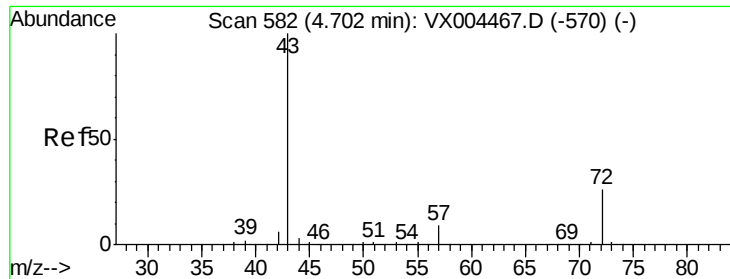
Tot Ion: 43 Resp: 7904
Ion Ratio Lower Upper
43 100
74 24.7 19.4 29.2



#20
Methylene Chloride
Concen: 3.85 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Tgt Ion: 84 Resp: 10941
Ion Ratio Lower Upper
84 100
49 142.4 101.2 151.8
51 39.7 29.5 44.3
86 59.5 52.3 78.5





#25

2-Butanone

Concen: 2.23 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Instrument :

MSVOA_X

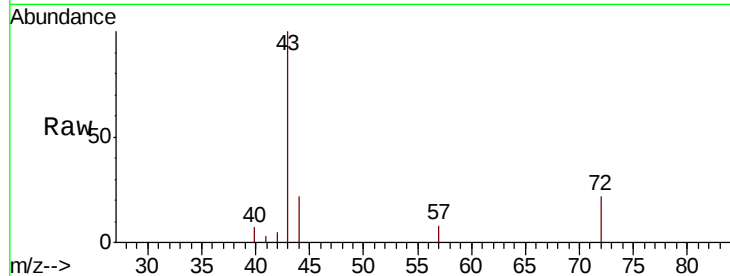
ClientSampled :

Tot Ion: 43 Resp: 4911

Ion Ratio Lower Upper

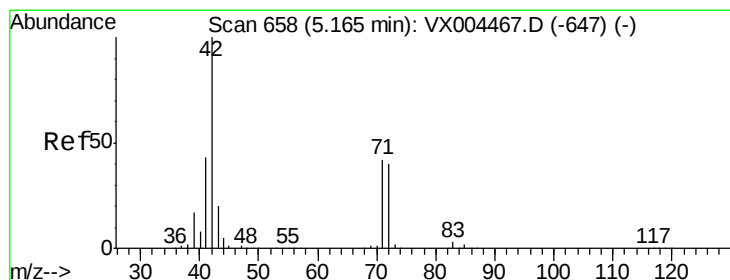
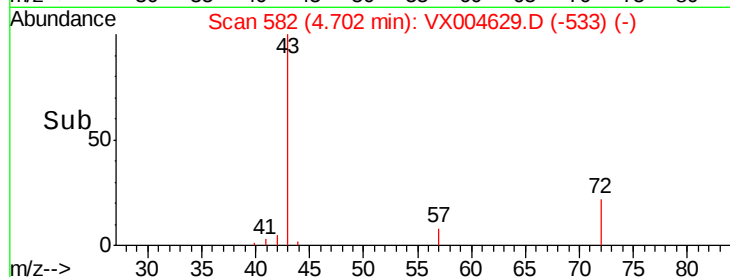
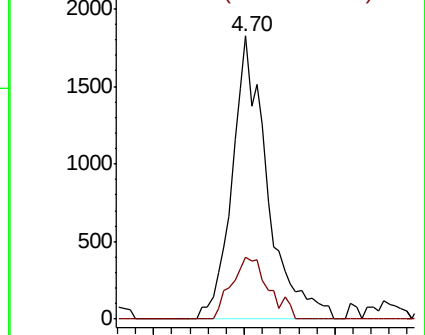
43 100

72 21.7 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: 1.22 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

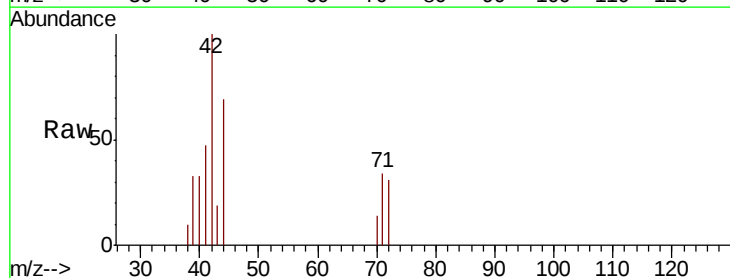
Tgt Ion: 42 Resp: 1623

Ion Ratio Lower Upper

42 100

72 38.6 37.4 56.0

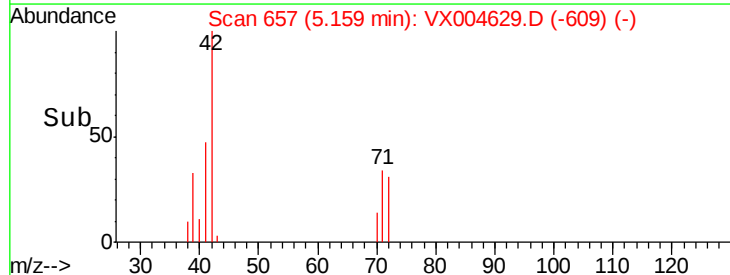
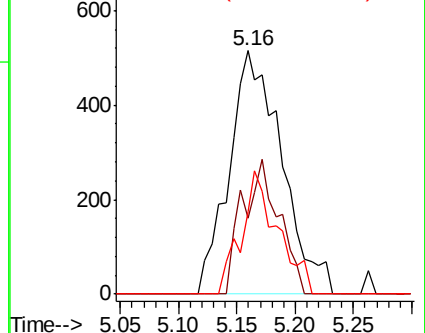
71 34.9 34.5 51.7

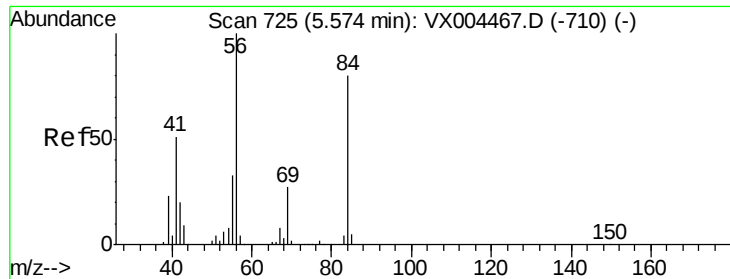


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

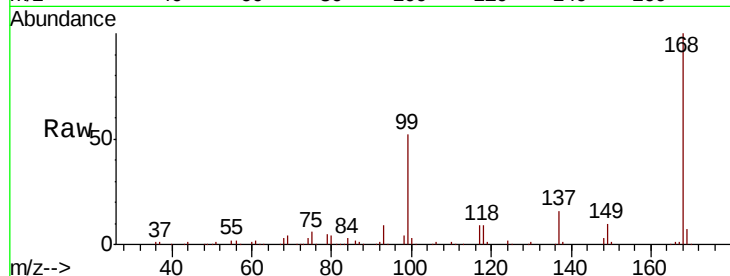




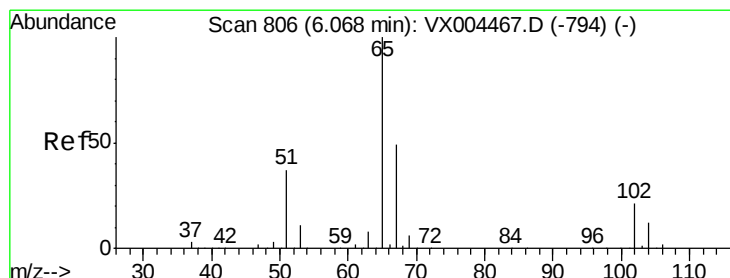
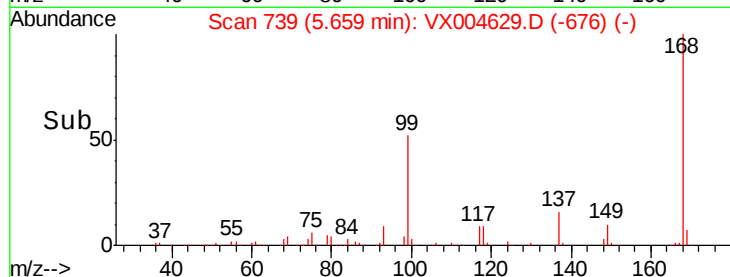
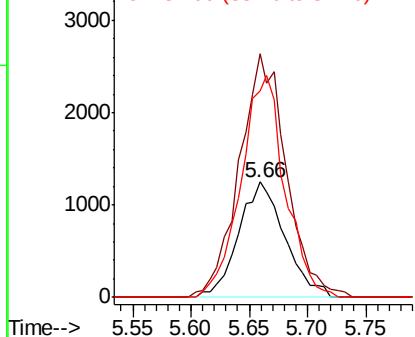
#31
Cyclohexane
Concen: 0.84 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3435
Ion Ratio Lower Upper
56 100
69 210.8 25.4 38.2#
84 178.9 71.4 107.2#

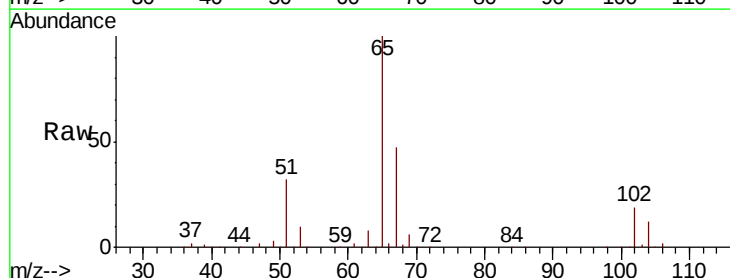


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

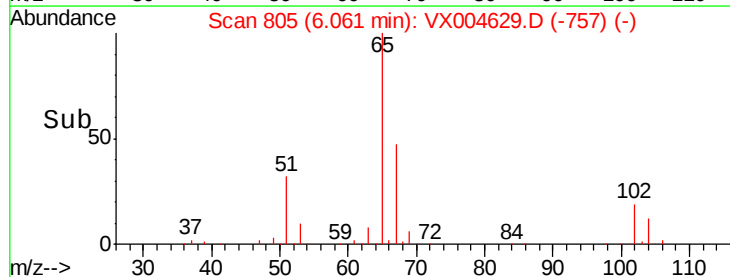
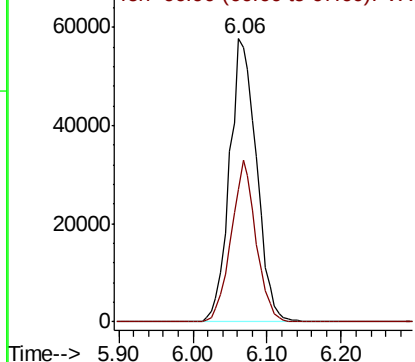


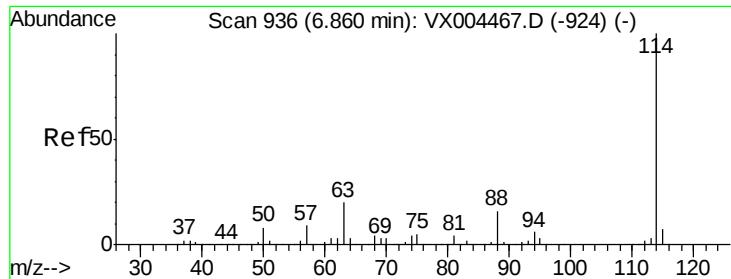
#33
1,2-Dichloroethane-d4
Concen: 51.54 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Tgt Ion: 65 Resp: 146426
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.8



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

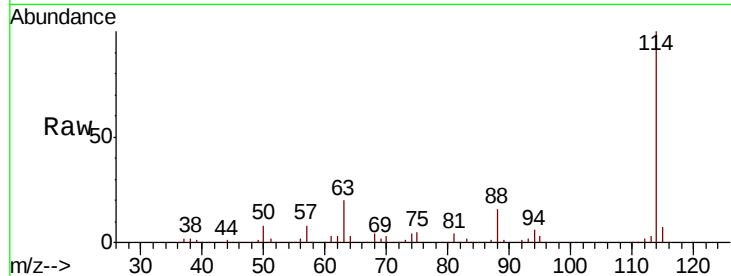




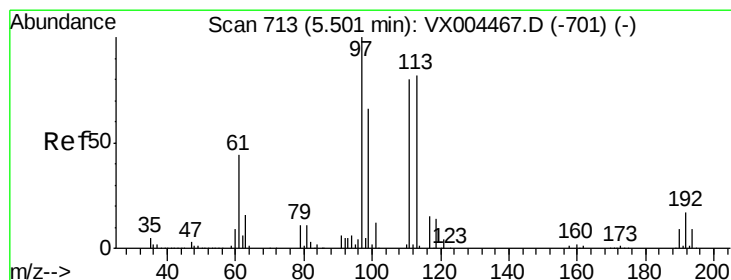
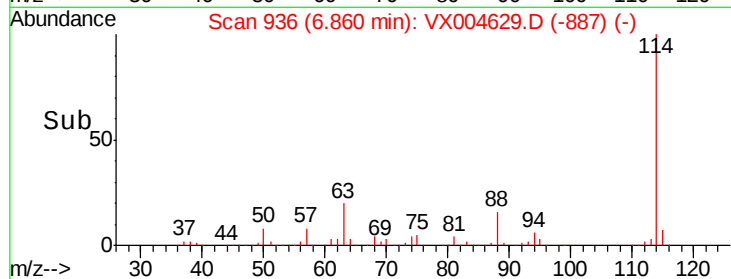
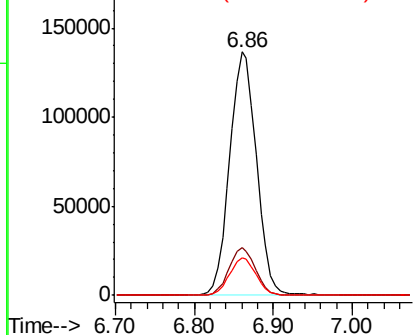
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004629.D
 Acq: 17 Sep 2018 19:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.0
88	15.7	0.0	30.4

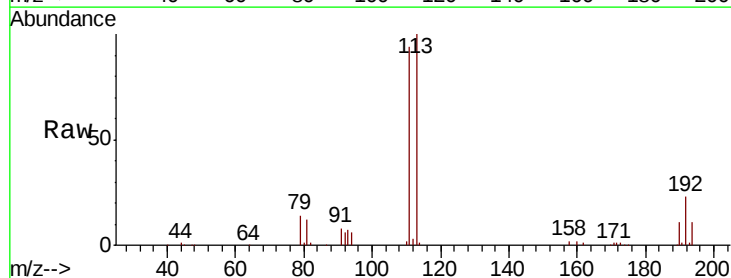


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

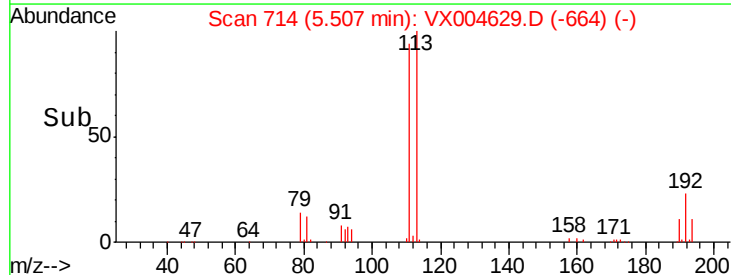
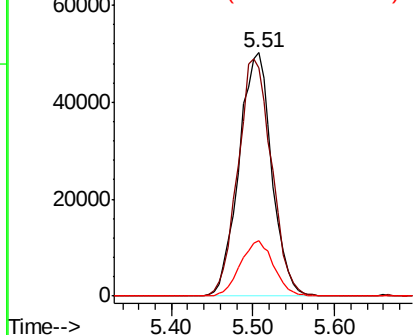


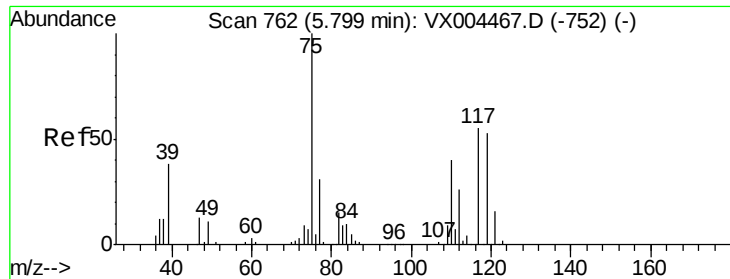
#35
 Dibromofluoromethane
 Concen: 47.34 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004629.D
 Acq: 17 Sep 2018 19:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.7	82.4	123.6
192	23.0	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

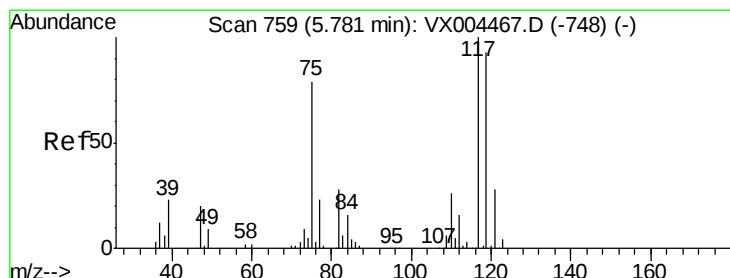
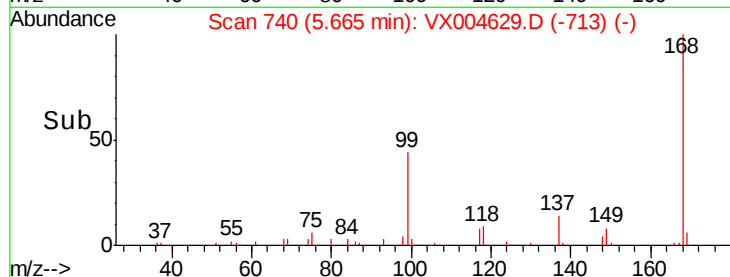
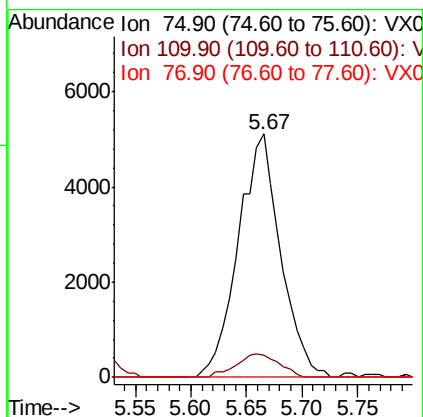
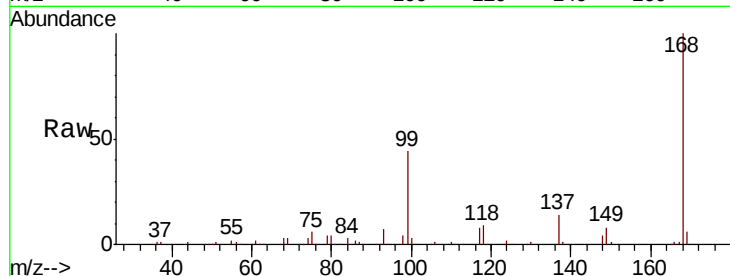




#36
 1,1-Dichloropropene
 Concen: 3.42 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004629.D
 Acq: 17 Sep 2018 19:58

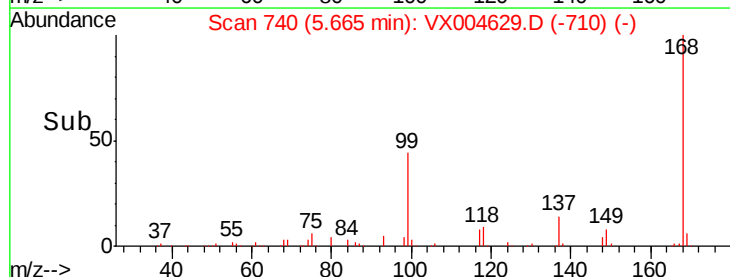
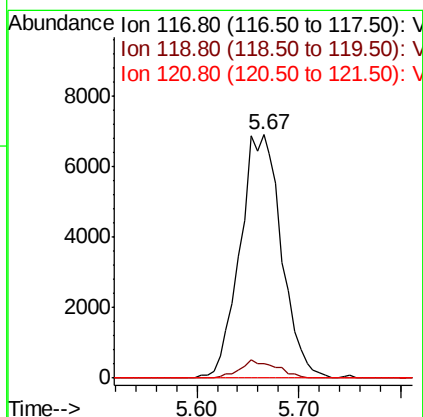
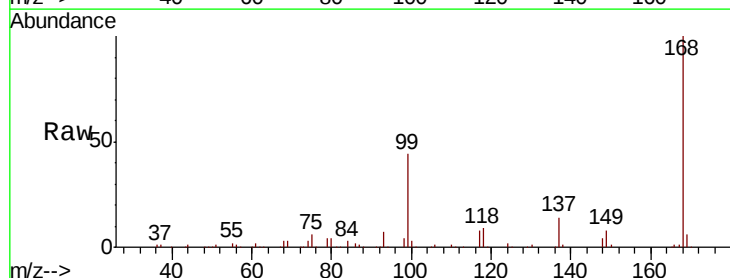
Instrument :
 MSVOA_X
 ClientSampleId :

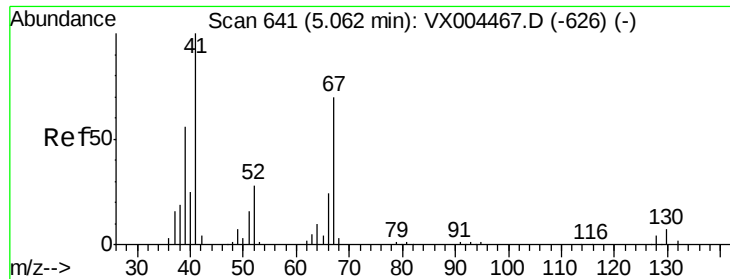
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.07 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004629.D
 Acq: 17 Sep 2018 19:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	78.8	118.2#
121	0.0	24.9	37.3#

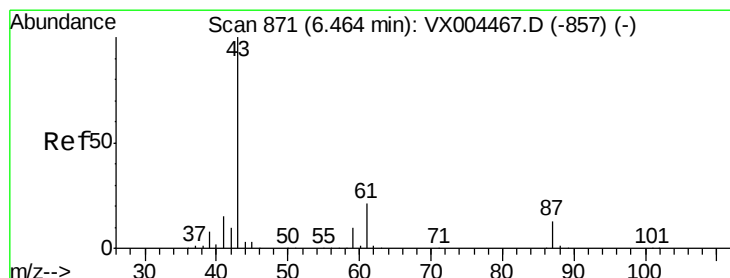
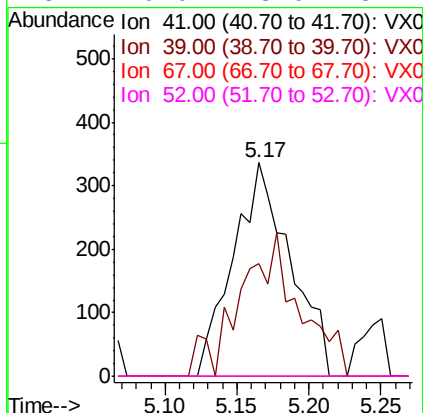
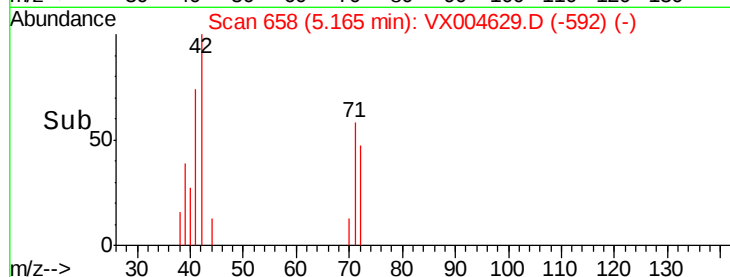
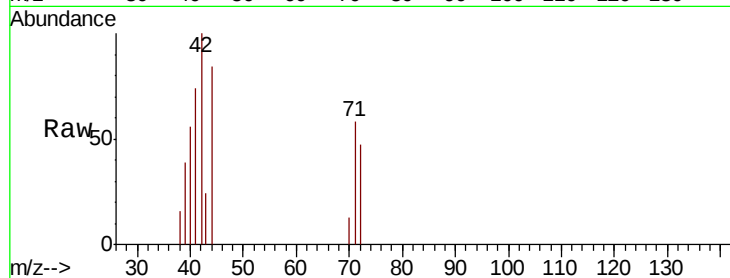




#41
Methacrylonitrile
Concen: 0.38 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

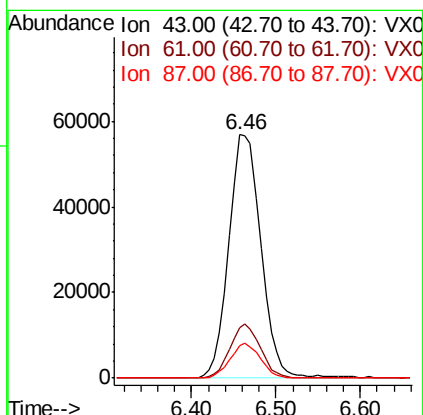
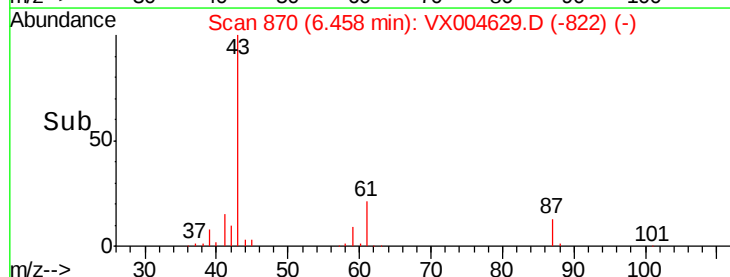
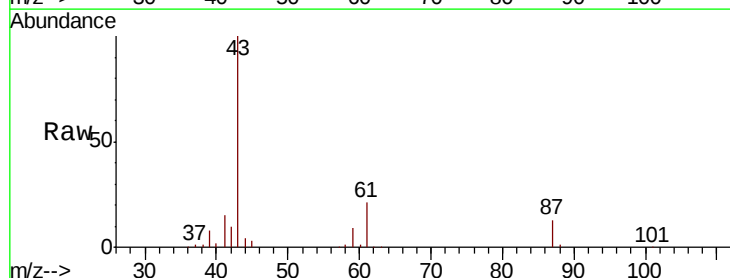
Instrument :
MSVOA_X
ClientSampled :

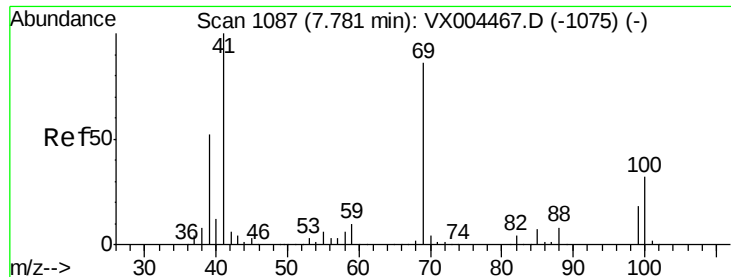
Tot Ion:	41	Resp:	931
Ion	Ratio	Lower	Upper
41	100		
39	31.9	42.4	63.6#
67	0.0	59.2	88.8#
52	0.0	23.0	34.4#



#43
Isopropyl Acetate
Concen: 24.81 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.01 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Tgt Ion:	43	Resp:	147554
Ion	Ratio	Lower	Upper
43	100		
61	21.2	17.0	25.4
87	13.7	11.4	17.2

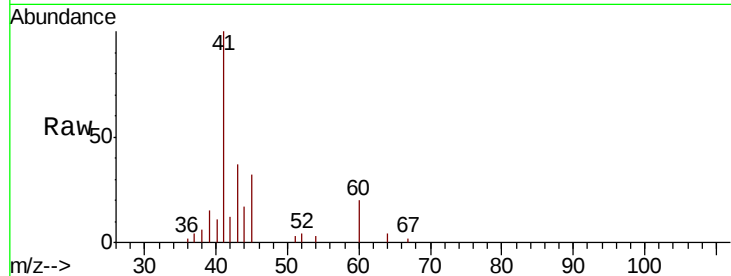




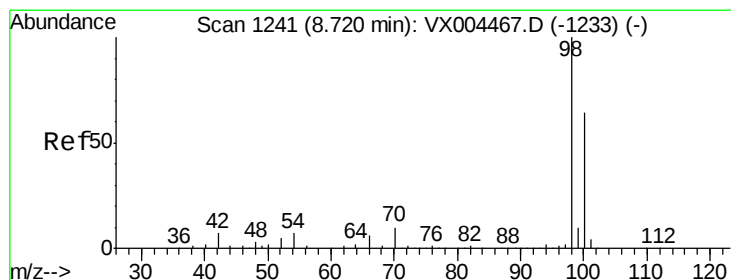
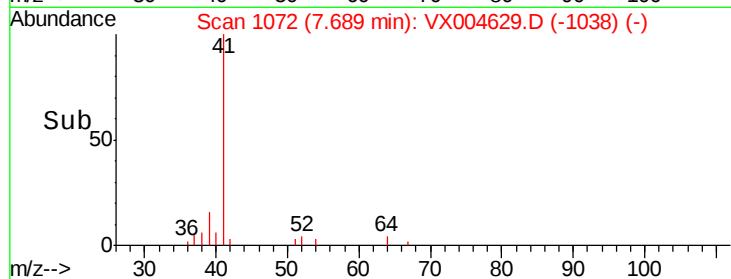
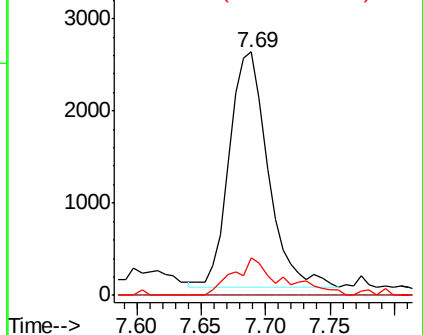
#48
Methvl methacrylate
Concen: 1.82 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 5354
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 19.9 42.7 64.1#

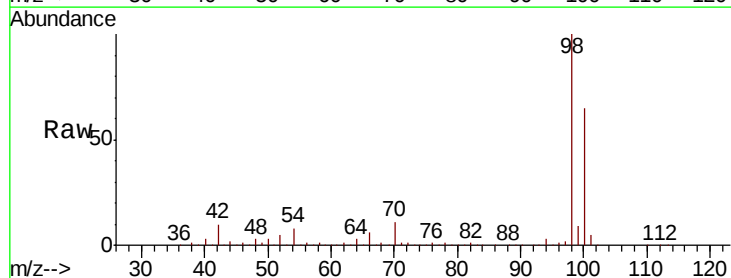


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

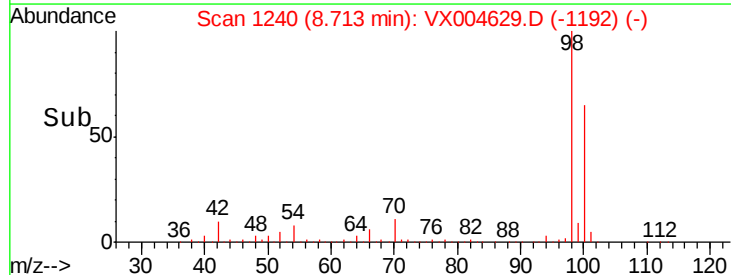
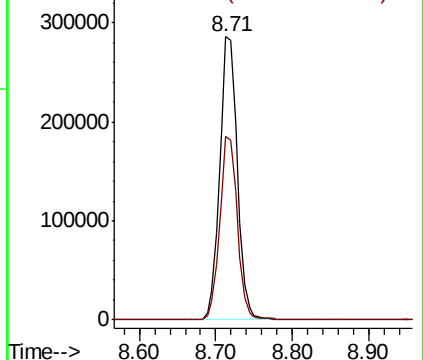


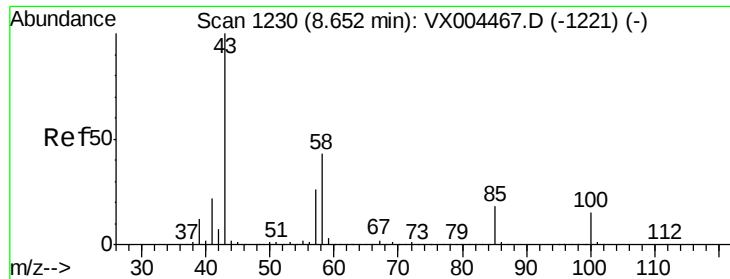
#50
Toluene-d8
Concen: 45.99 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Tgt Ion: 98 Resp: 457686
Ion Ratio Lower Upper
98 100
100 64.5 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: 0.53 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Instrument :

MSVOA_X

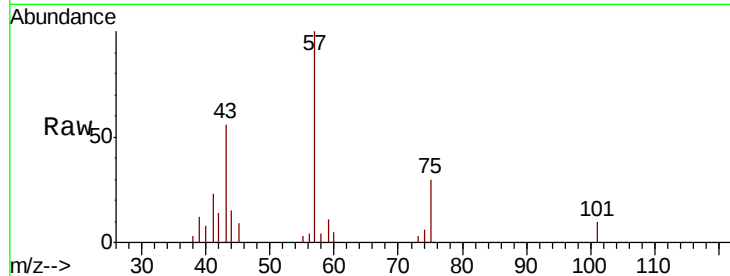
ClientSampleId :

Tot Ion: 43 Resp: 2237

Ion Ratio Lower Upper

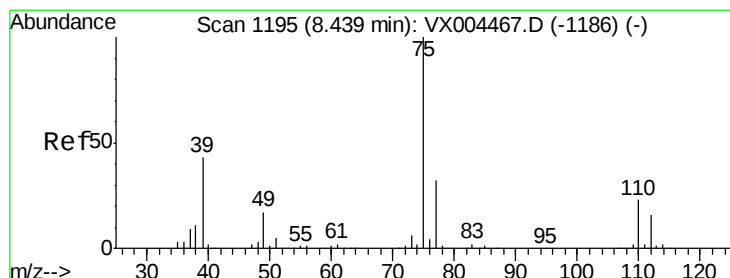
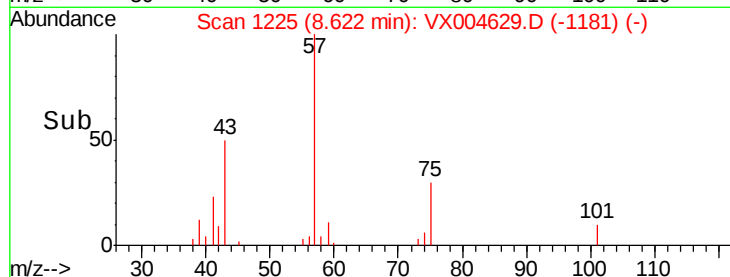
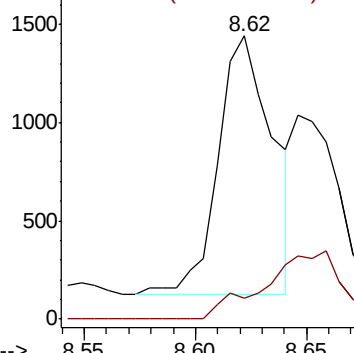
43 100

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: 0.29 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

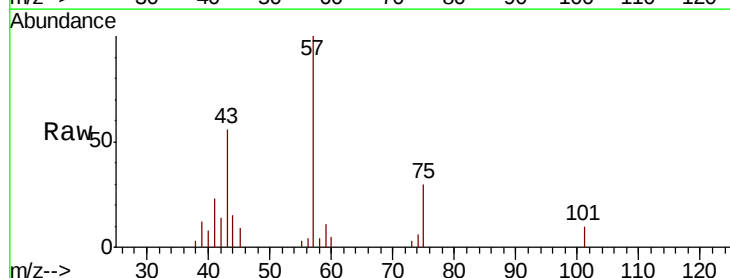
Tgt Ion: 75 Resp: 1149

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

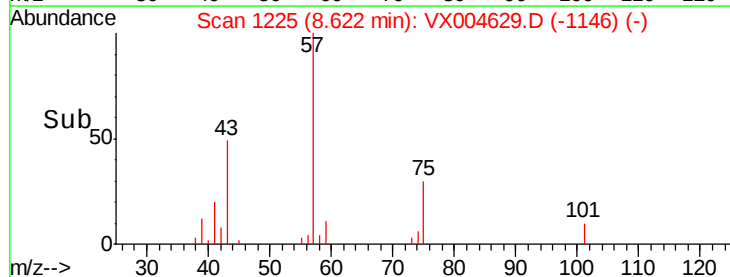
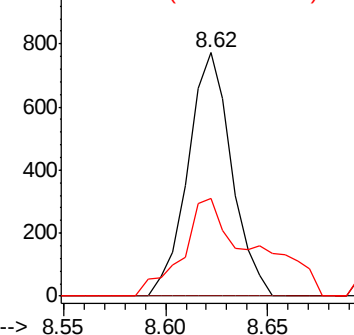
39 40.3 36.4 54.6

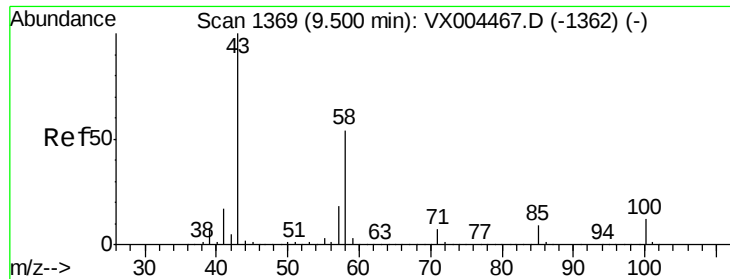


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#59

2-Hexanone

Concen: 3.14 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Instrument :

MSVOA_X

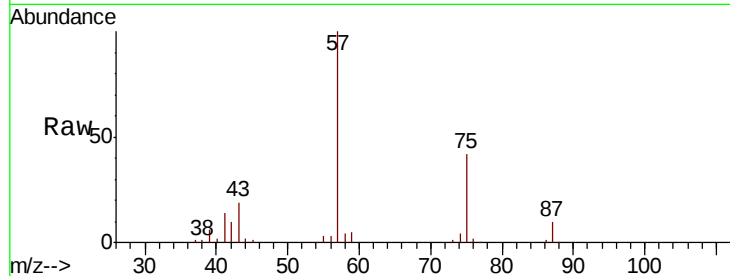
ClientSampleId :

Tot Ion: 43 Resp: 10106

Ion Ratio Lower Upper

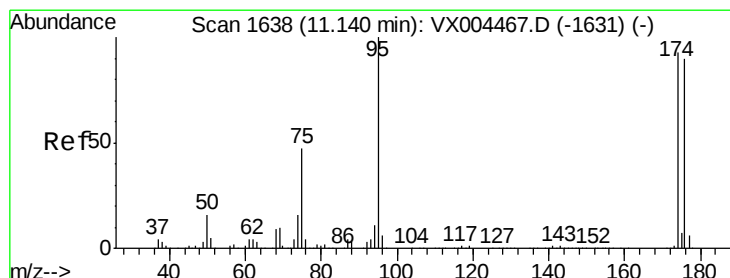
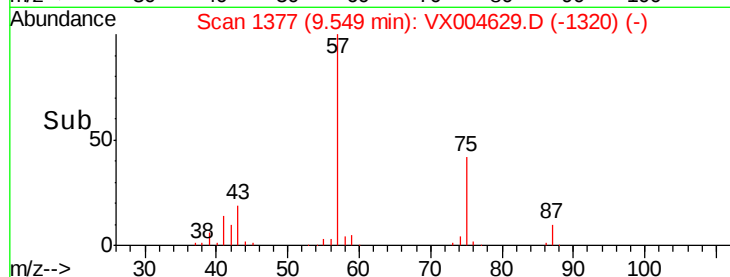
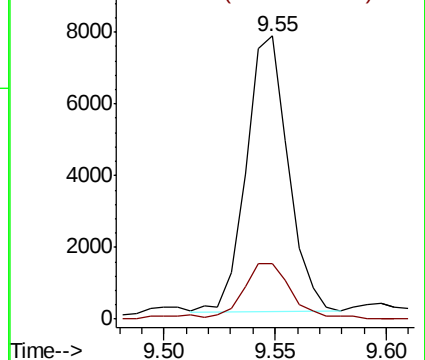
43 100

58 23.4 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.17 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

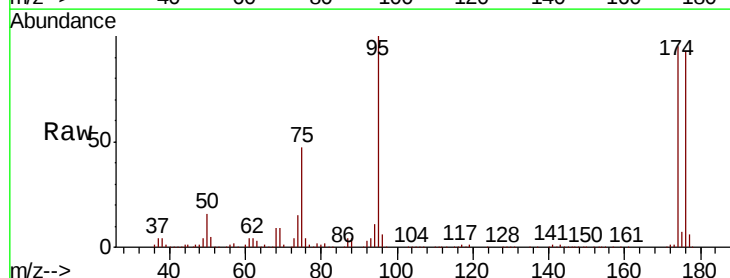
Tgt Ion: 95 Resp: 156911

Ion Ratio Lower Upper

95 100

174 95.0 0.0 185.2

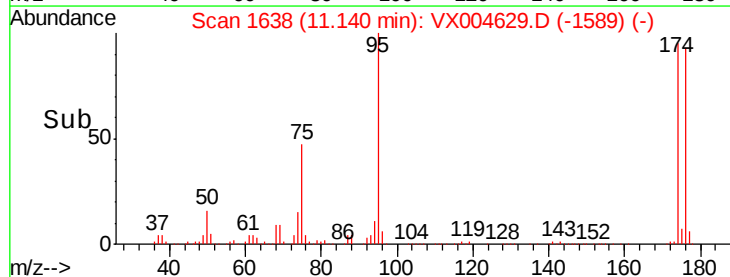
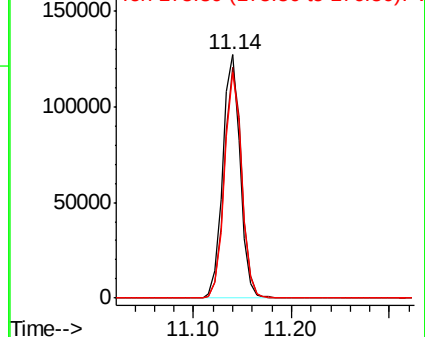
176 91.5 0.0 178.6

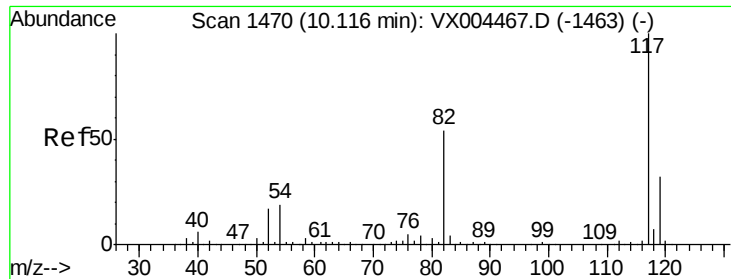


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

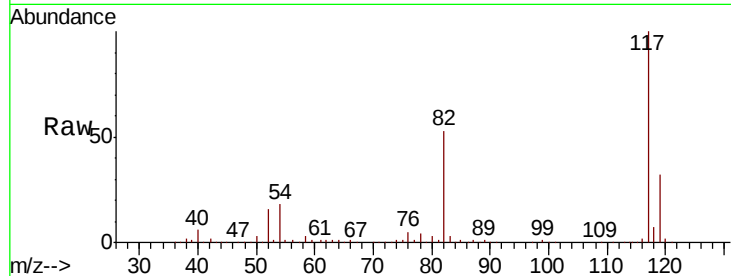




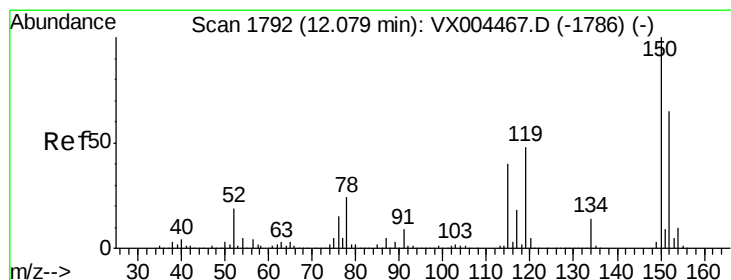
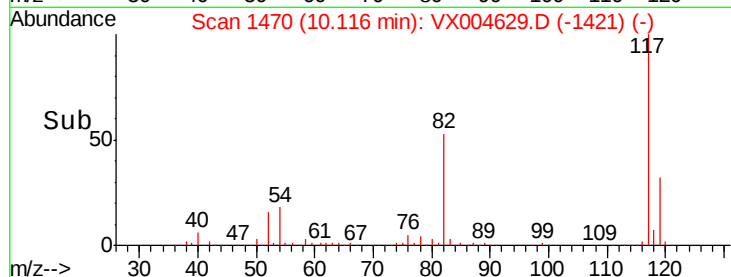
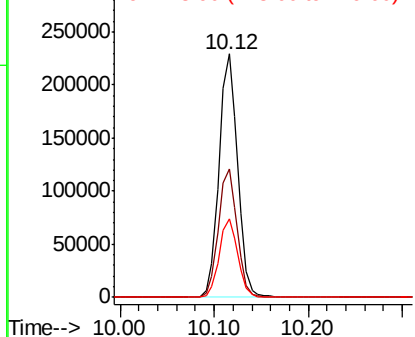
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 312414
Ion Ratio Lower Upper
117 100
82 52.8 47.8 71.6
119 32.3 29.3 43.9

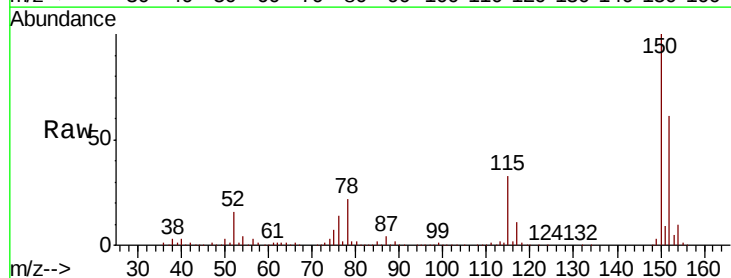


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

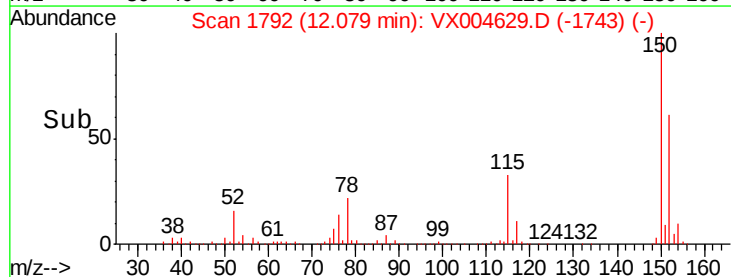
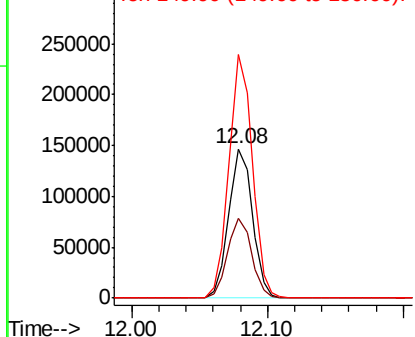


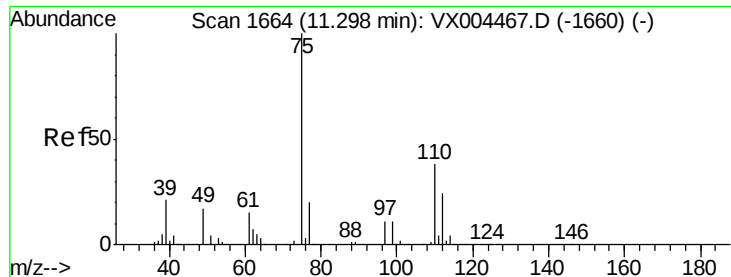
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004629.D
Acq: 17 Sep 2018 19:58

Tgt Ion:152 Resp: 178726
Ion Ratio Lower Upper
152 100
115 53.9 39.0 117.0
150 160.5 0.0 351.0



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





#76

1,2,3-Trichloropropane

Concen: 20.62 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Instrument :

MSVOA_X

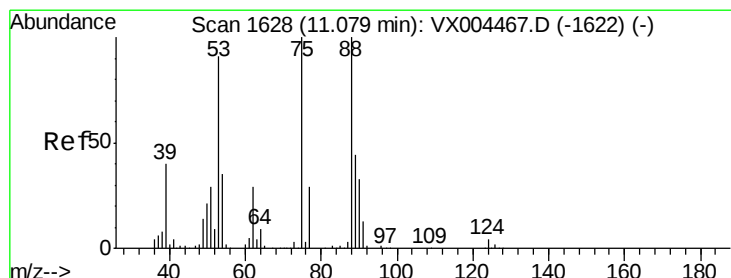
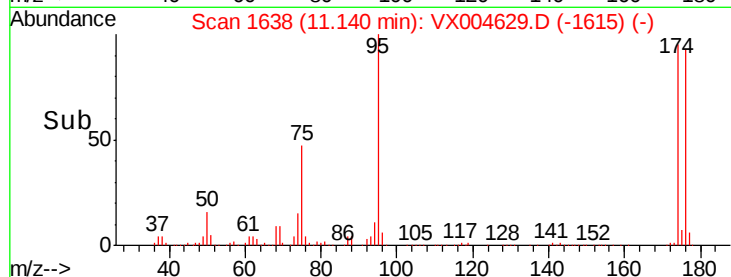
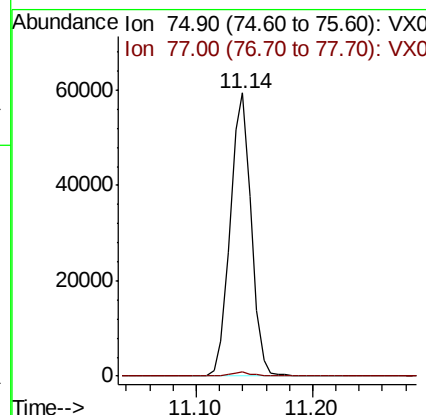
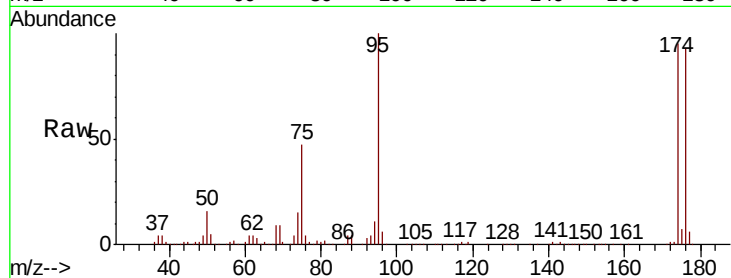
ClientSampleId :

Tot Ion: 75 Resp: 74129

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.71 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004629.D

Acq: 17 Sep 2018 19:58

Tgt Ion: 75 Resp: 74129

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#

