

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103018\
 Data File : VX005691.D
 Acq On : 30 Oct 2018 15:00
 Operator : JC/MD
 Sample : PB114242ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114242ZHE#02

Quant Time: Oct 31 01:02:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	240705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	340416	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151287	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	146620	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
35) Dibromofluoromethane	5.50	113	113076	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
50) Toluene-d8	8.71	98	410851	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	11.14	95	139290	44.53	ug/l	0.00
Spiked Amount			Recovery	=	89.06%	

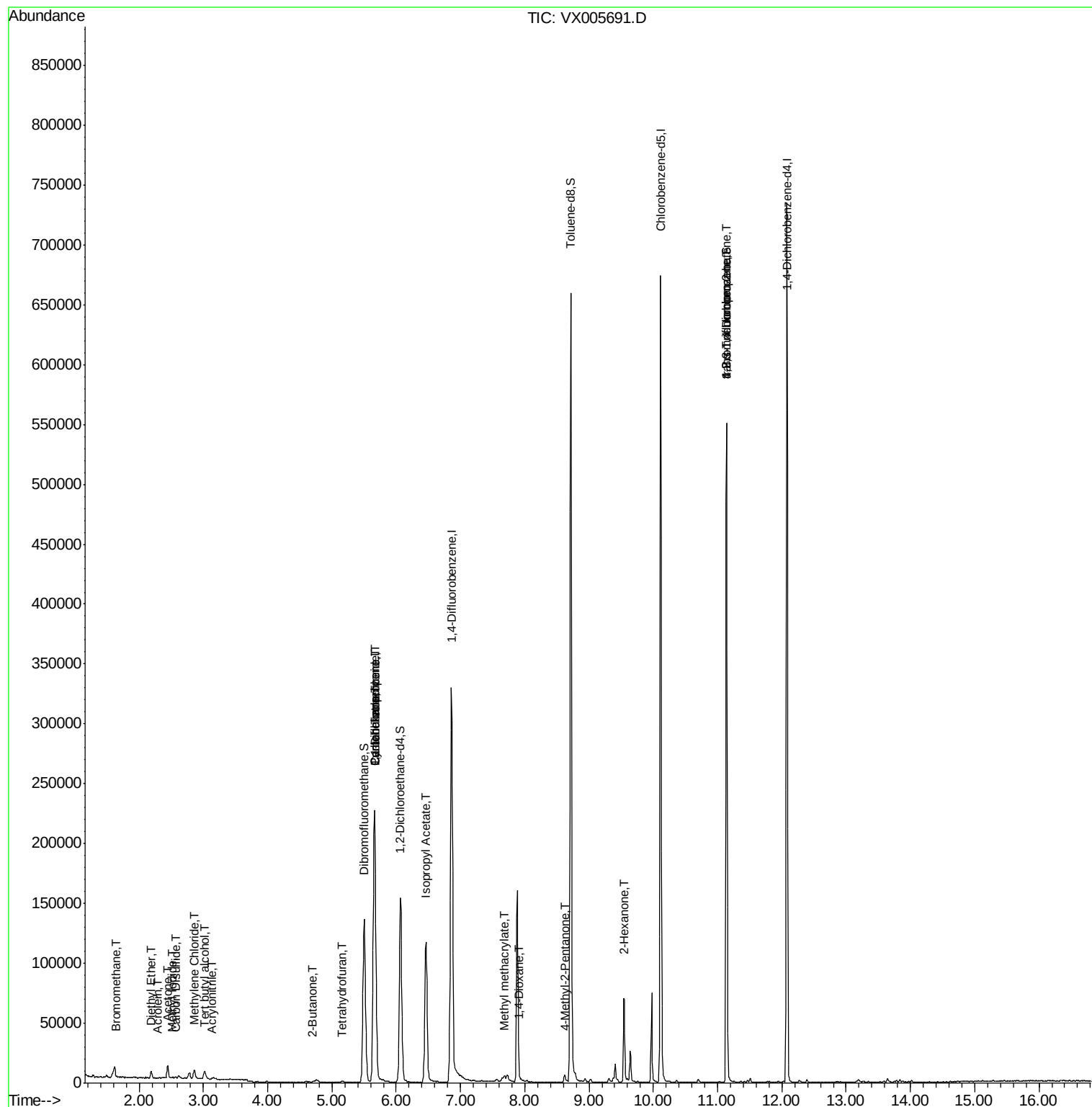
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	762	0.412	ug/l	84
8) Diethyl Ether	2.19	74	1853	1.123	ug/l	91
10) Methyl Iodide	2.51	142	572	2.944	ug/l #	90
11) Tert butyl alcohol	3.02	59	3996	5.054	ug/l #	85
13) Acrolein	2.28	56	117	0.290	ug/l #	1
15) Acrylonitrile	3.14	53	437	0.246	ug/l #	58
16) Acetone	2.45	43	11430	7.362	ug/l	96
17) Carbon Disulfide	2.57	76	1394	0.202	ug/l	99
20) Methylene Chloride	2.85	84	3239	1.246	ug/l #	91
25) 2-Butanone	4.70	43	1638	0.693	ug/l	95
29) Tetrahydrofuran	5.15	42	575	0.374	ug/l #	64
31) Cyclohexane	5.67	56	4579	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16491	4.992	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20968	6.026	ug/l #	16
43) Isopropyl Acetate	6.46	43	160331	25.380	ug/l	97
48) Methyl methacrylate	7.68	41	5163	1.678	ug/l #	29
49) 1,4-Dioxane	7.91	88	20	0.297	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2917	0.687	ug/l #	38
59) 2-Hexanone	9.54	43	8251	2.465	ug/l	65
76) 1,2,3-Trichloropropane	11.14	75	70015	21.843	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	70015	71.372	ug/l #	9

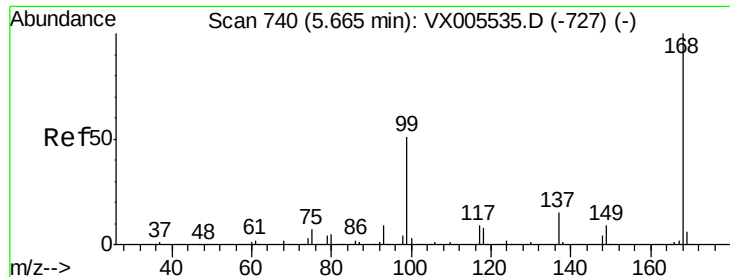
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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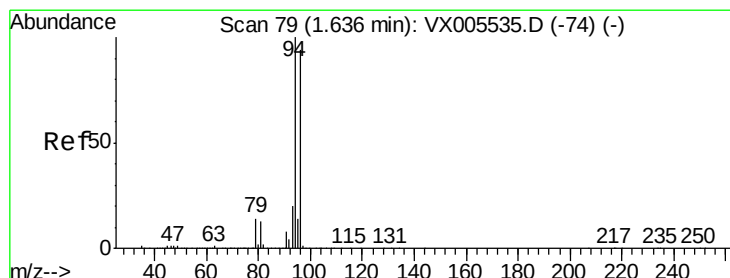
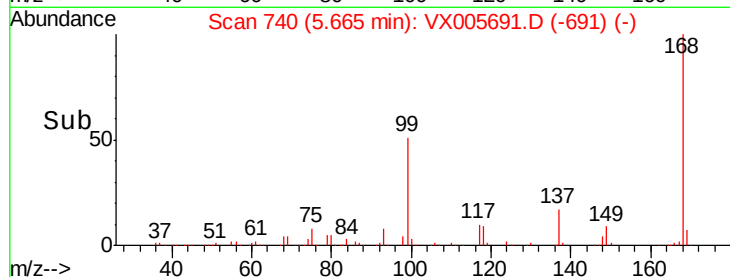
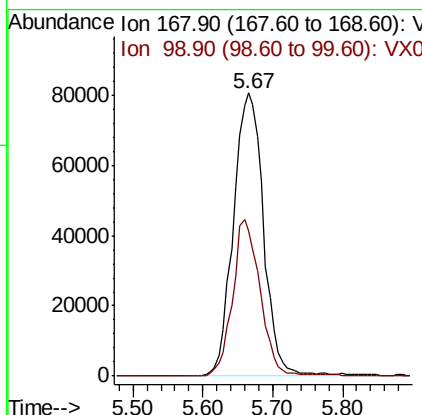
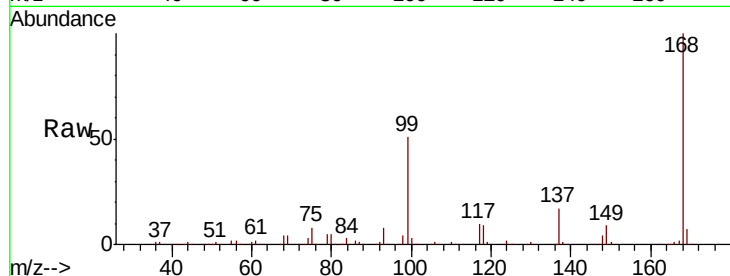




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.00 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

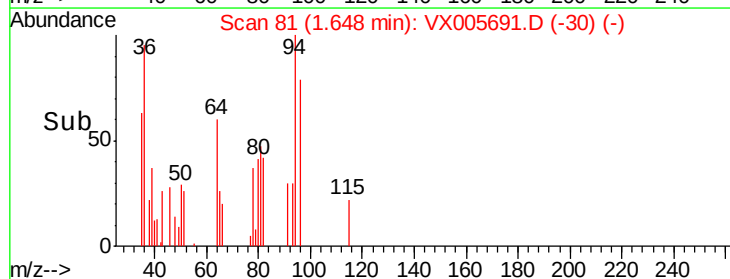
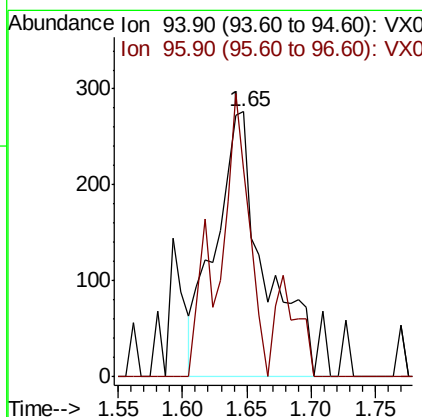
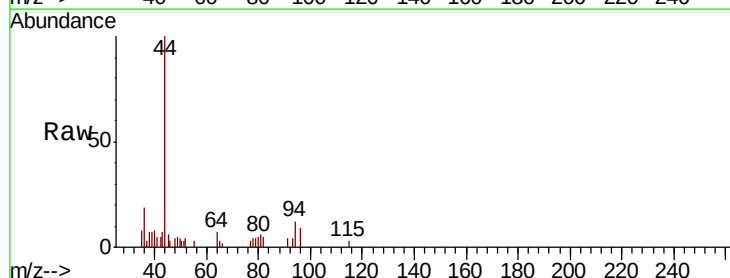
Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#02

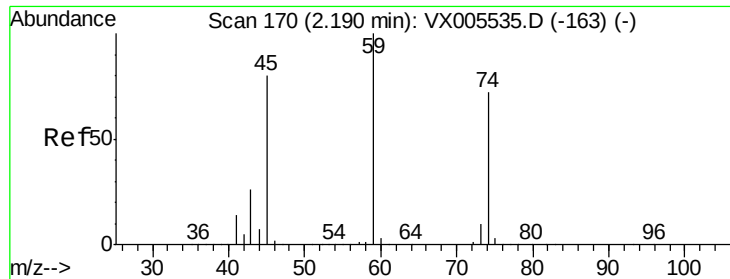
Tot Ion:168 Resp: 240705
Ion Ratio Lower Upper
168 100
99 51.3 40.7 61.1



#5
Bromomethane
Concen: 0.412 ug/l
RT: 1.65 min Scan# 81
Delta R.T. 0.01 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Tgt Ion: 94 Resp: 762
Ion Ratio Lower Upper
94 100
96 78.6 75.2 112.8





#8

Diethyl Ether

Concen: 1.123 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

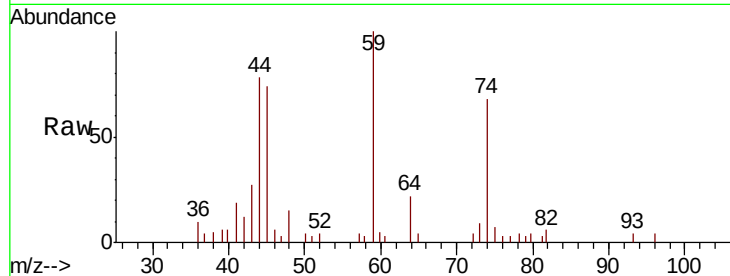
PB114242ZHE#02

Tot Ion: 74 Resp: 1853

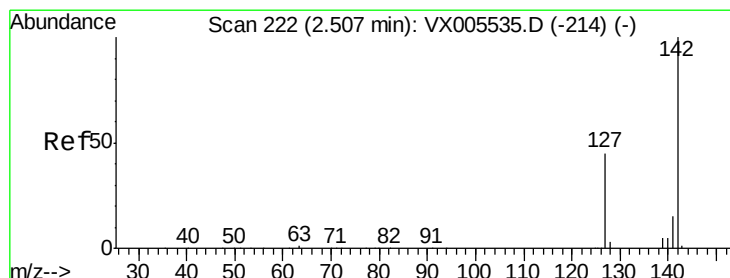
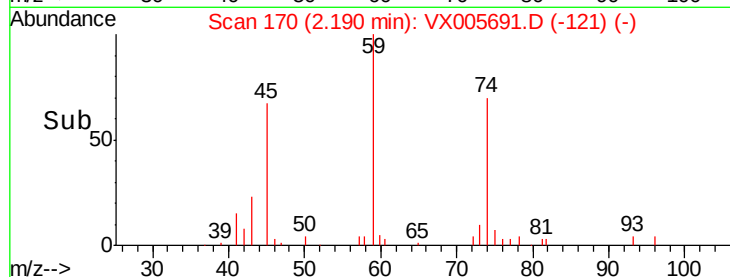
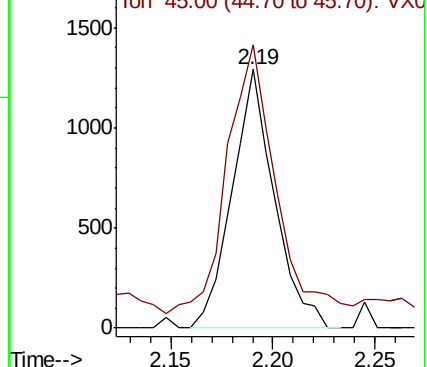
Ion Ratio Lower Upper

74 100

45 117.6 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0



#10

Methyl Iodide

Concen: 2.944 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

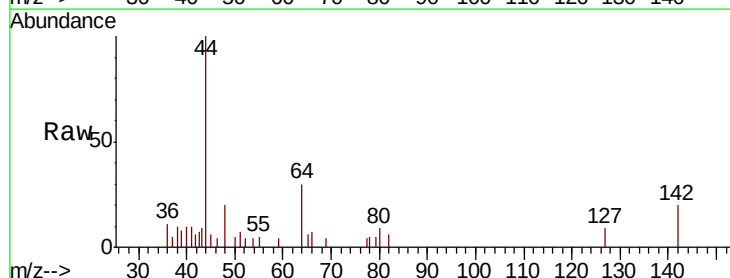
Tgt Ion: 142 Resp: 572

Ion Ratio Lower Upper

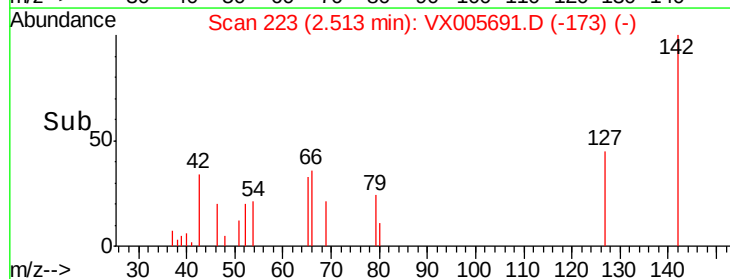
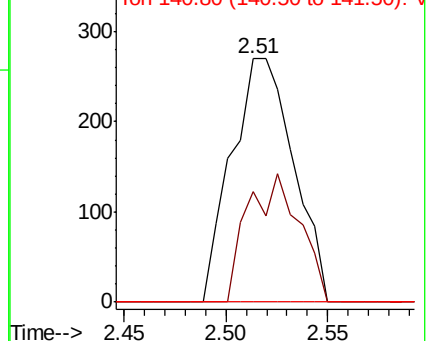
142 100

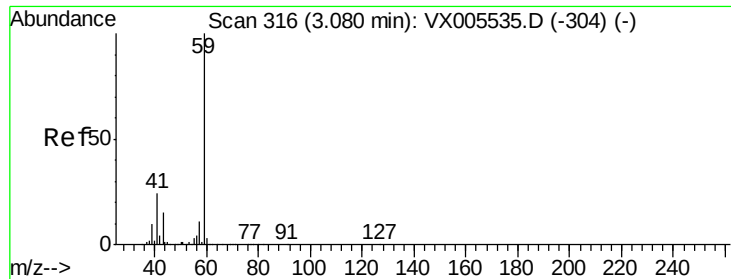
127 43.9 36.0 54.0

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

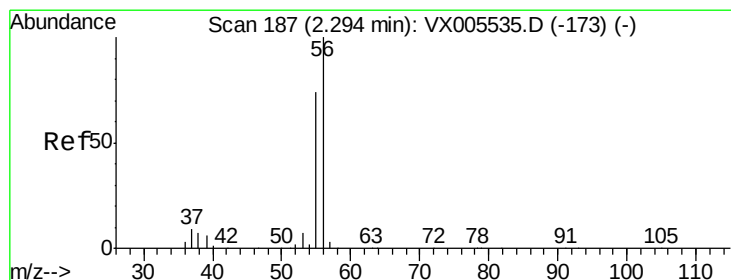
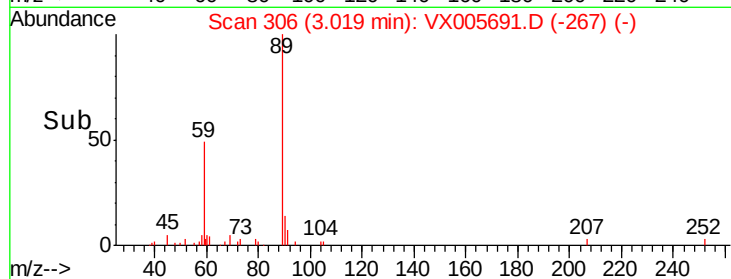
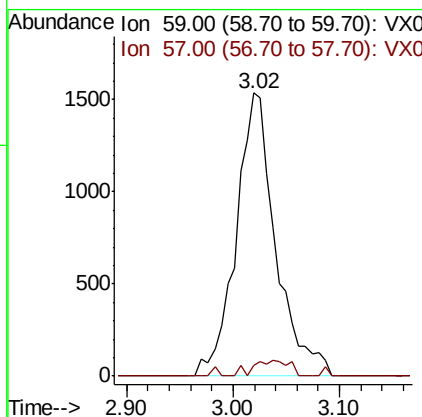
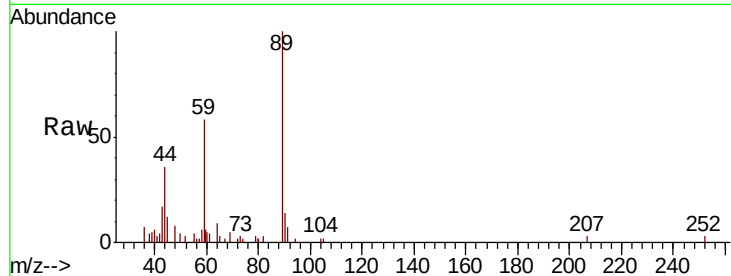




#11
Tert butyl alcohol
Concen: 5.054 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

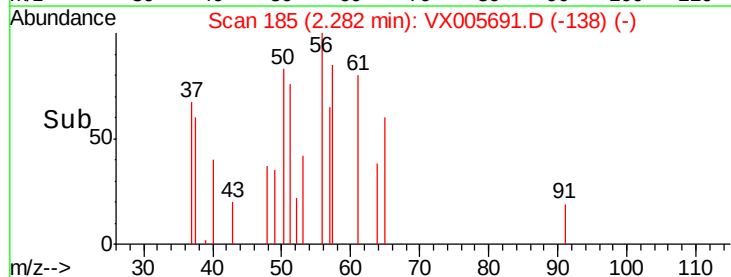
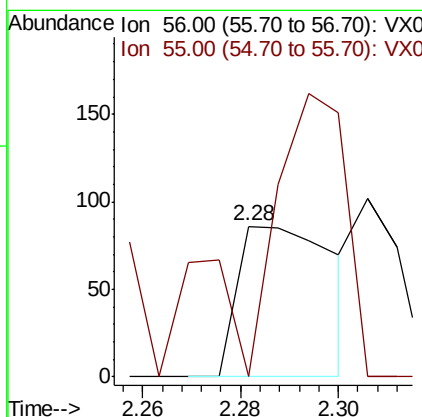
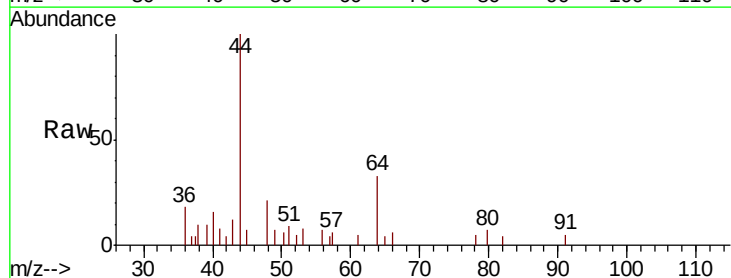
Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#02

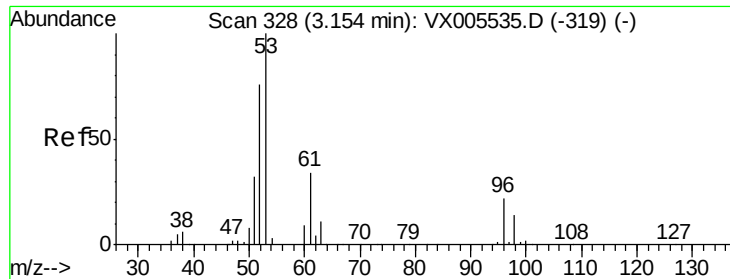
Tot Ion: 59 Resp: 3996
Ion Ratio Lower Upper
59 100
57 5.1 8.5 12.7#



#13
Acrolein
Concen: 0.290 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Tgt Ion: 56 Resp: 117
Ion Ratio Lower Upper
56 100
55 173.5 57.3 85.9#





#15

Acrylonitrile

Concen: 0.246 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.02 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#02

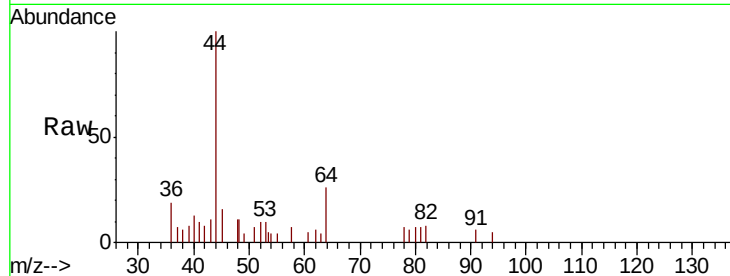
Tot Ion: 53 Resp: 437

Ion Ratio Lower Upper

53 100

52 103.9 66.6 99.8#

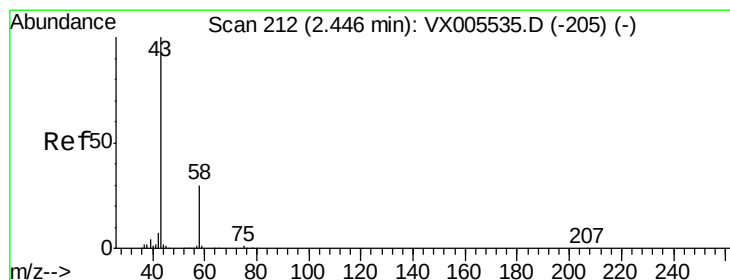
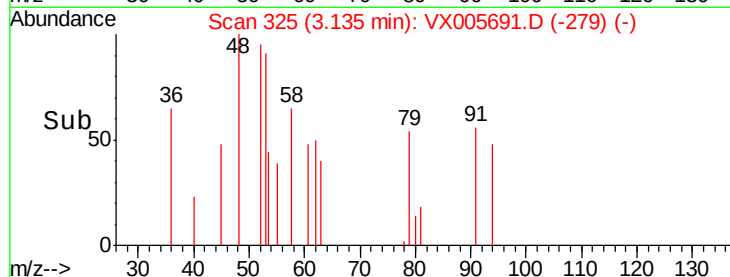
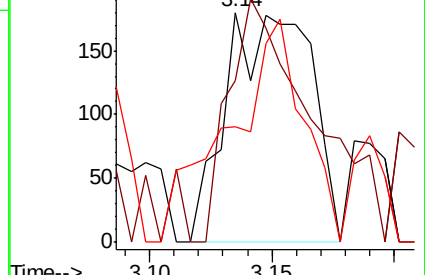
51 86.0 28.4 42.6#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 7.362 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005691.D

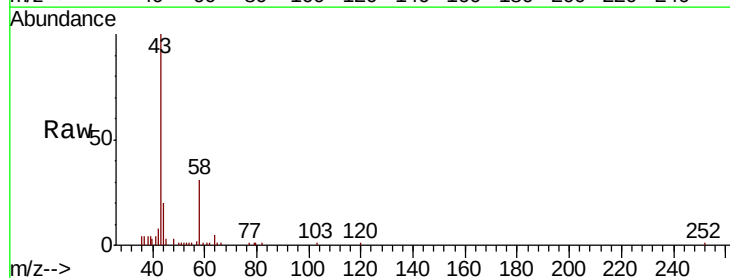
Acq: 30 Oct 2018 15:00

Tgt Ion: 43 Resp: 11430

Ion Ratio Lower Upper

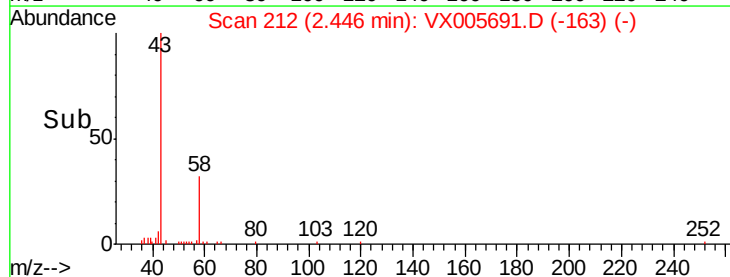
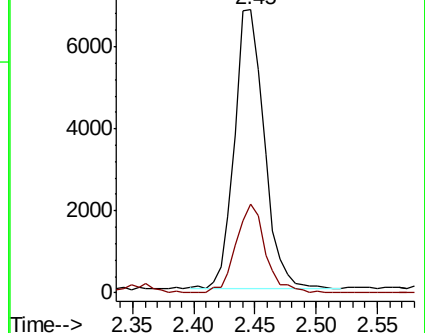
43 100

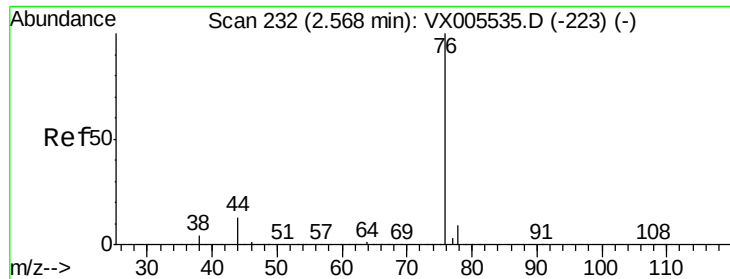
58 31.7 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.202 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

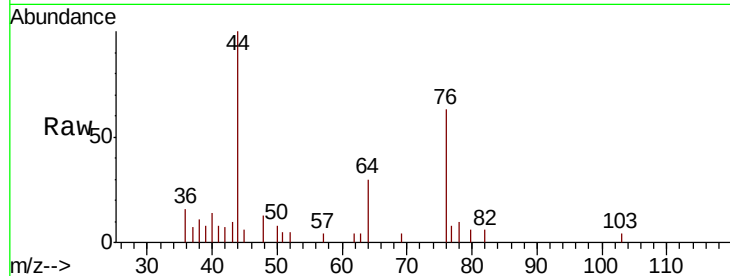
PB114242ZHE#02

Tot Ion: 76 Resp: 1394

Ion Ratio Lower Upper

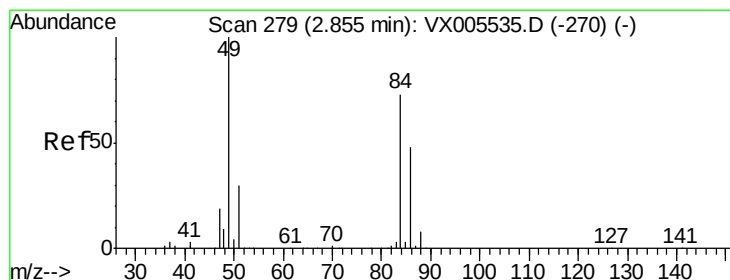
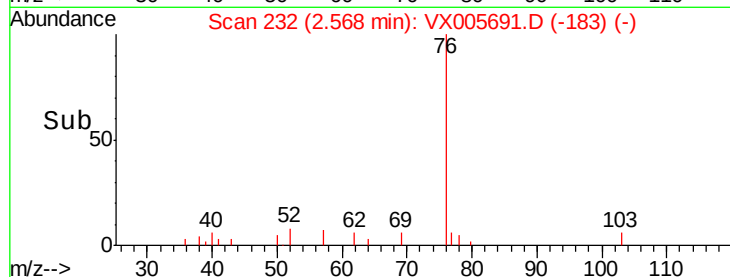
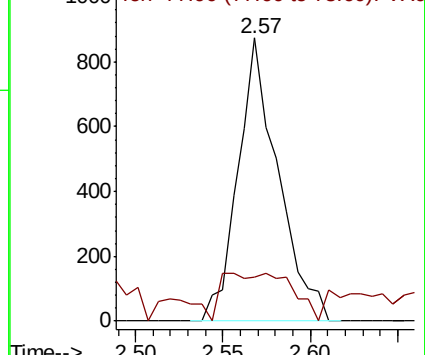
76 100

78 9.5 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 1.246 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Tgt Ion: 84 Resp: 3239

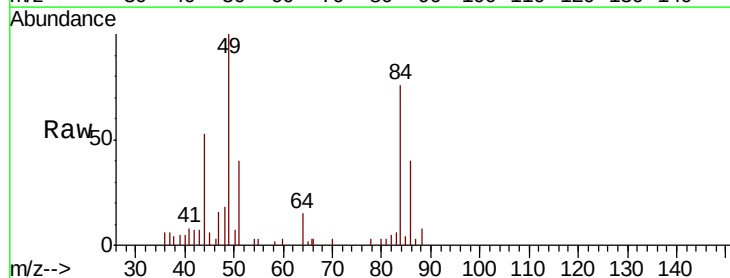
Ion Ratio Lower Upper

84 100

49 132.0 109.5 164.3

51 48.8 33.3 49.9

86 52.6 52.7 79.1#

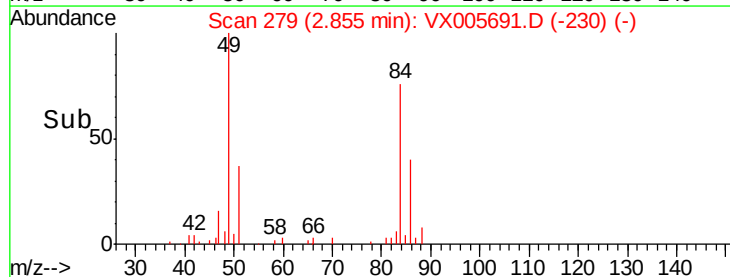
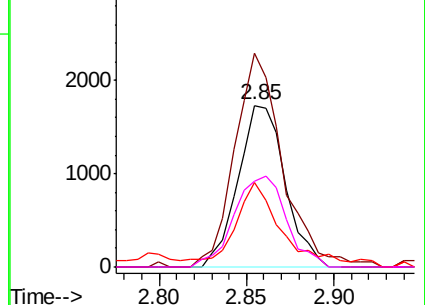


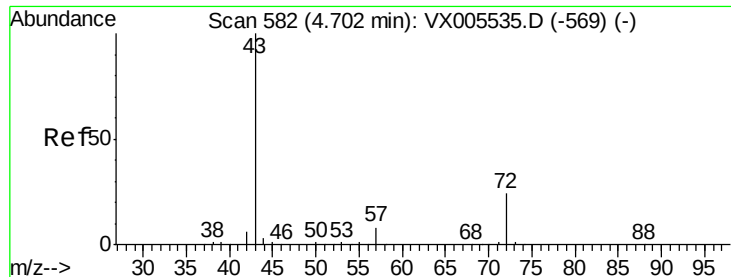
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.693 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

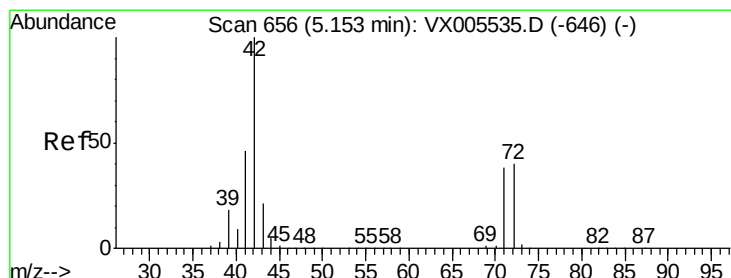
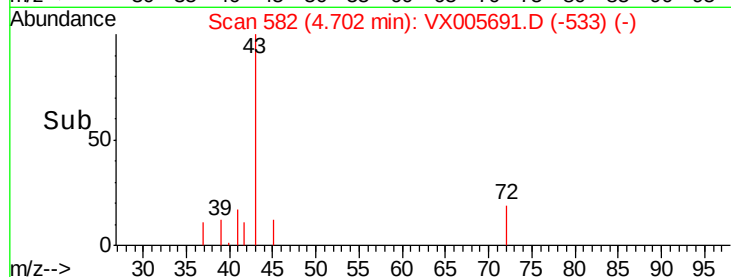
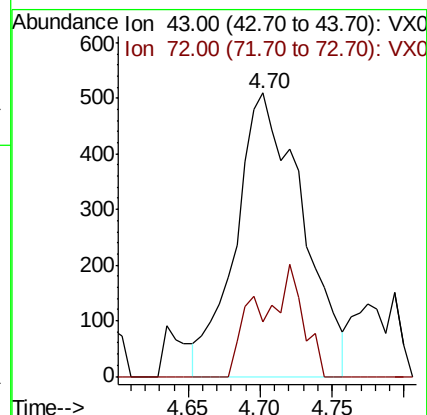
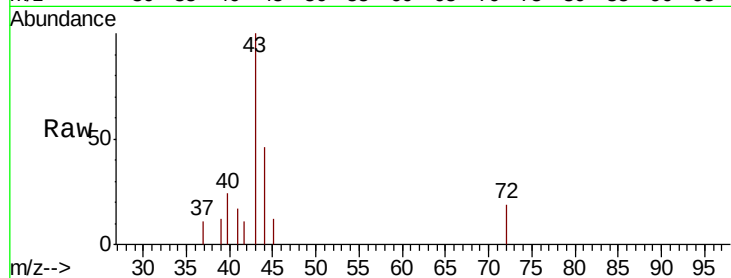
PB114242ZHE#02

Tot Ion: 43 Resp: 1638

Ion Ratio Lower Upper

43 100

72 21.7 19.2 28.8



#29

Tetrahydrofuran

Concen: 0.374 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

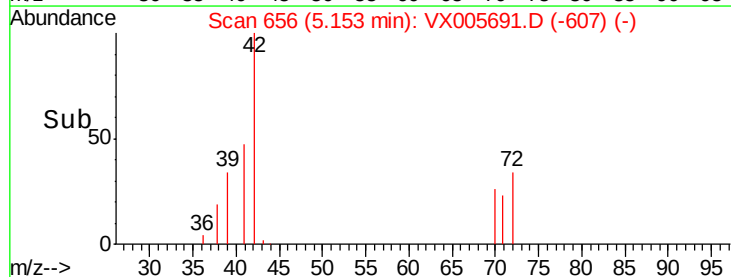
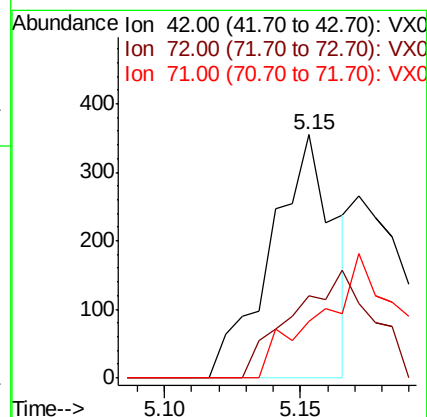
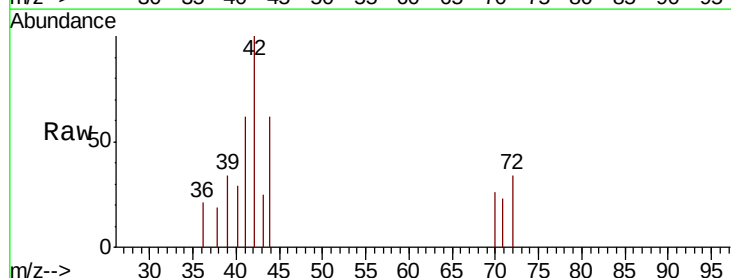
Tgt Ion: 42 Resp: 575

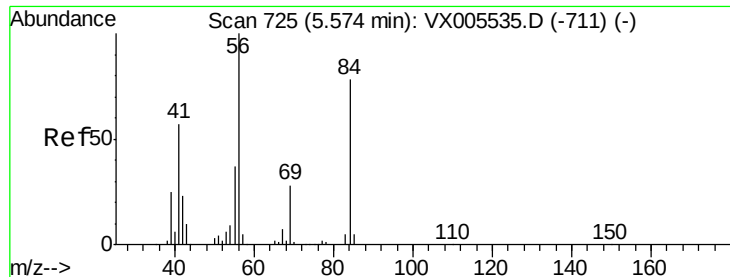
Ion Ratio Lower Upper

42 100

72 59.7 32.0 48.0#

71 61.0 29.8 44.8#

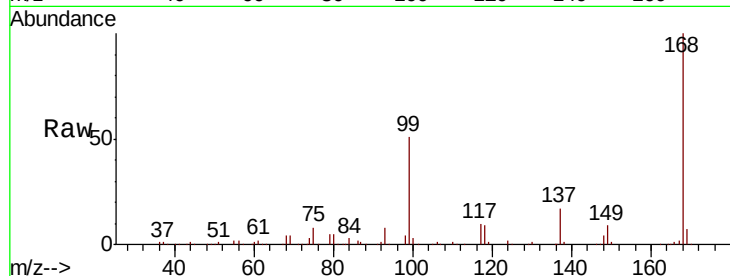




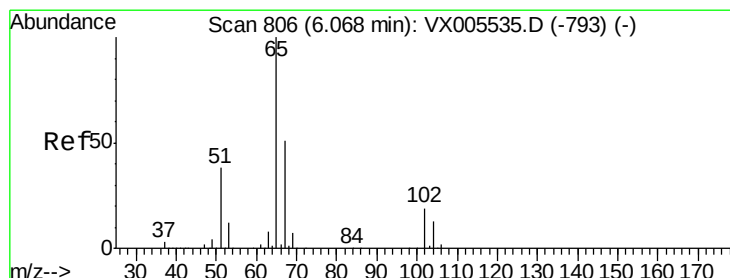
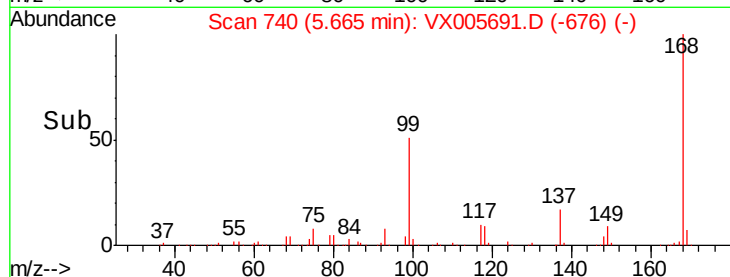
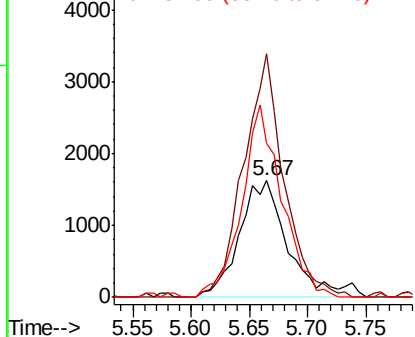
#31
Cyclohexane
Concen: 1.156 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#02

Tot Ion: 56 Resp: 4579
Ion Ratio Lower Upper
56 100
69 208.9 22.6 34.0#
84 131.6 62.7 94.1#

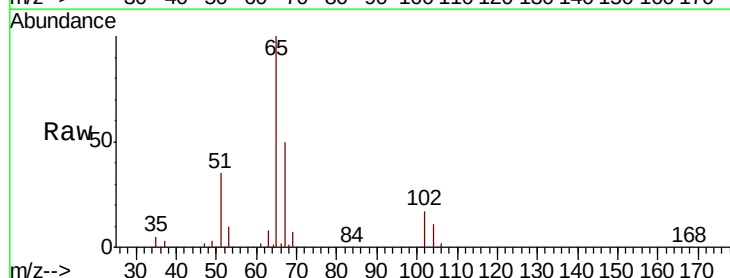


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

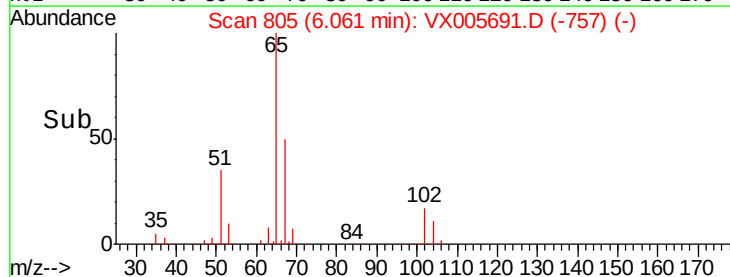
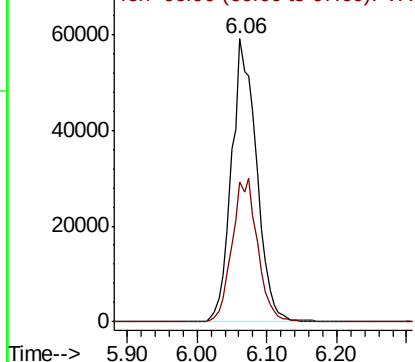


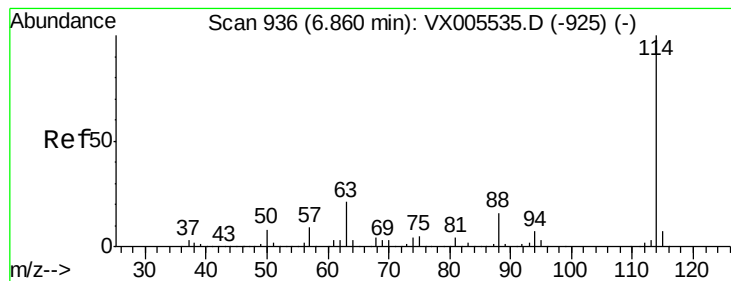
#33
1,2-Dichloroethane-d4
Concen: 49.900 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Tgt Ion: 65 Resp: 146620
Ion Ratio Lower Upper
65 100
67 52.1 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: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#02

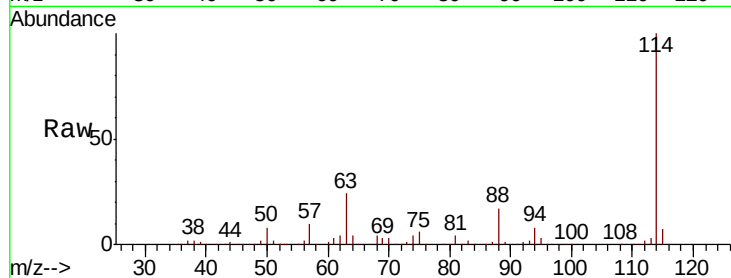
Tot Ion:114 Resp: 340416

Ion Ratio Lower Upper

114 100

63 23.9 0.0 42.8

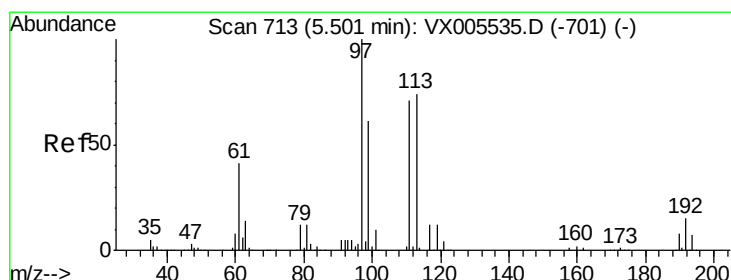
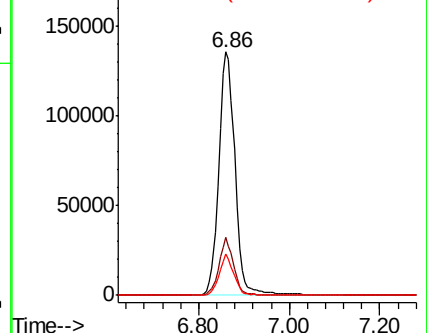
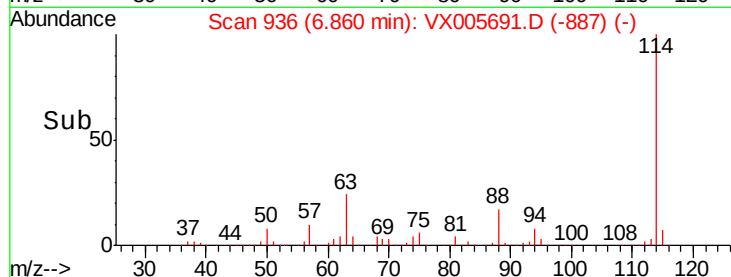
88 17.0 0.0 31.2



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: 49.057 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

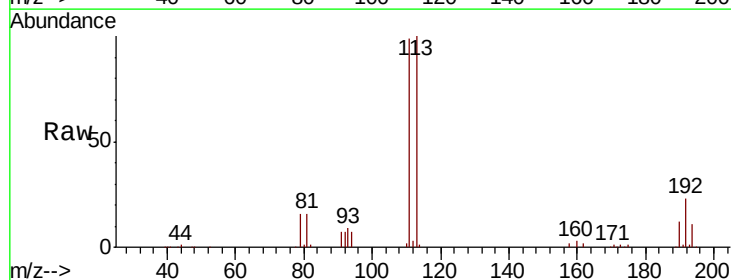
Tgt Ion:113 Resp: 113076

Ion Ratio Lower Upper

113 100

111 102.0 82.3 123.5

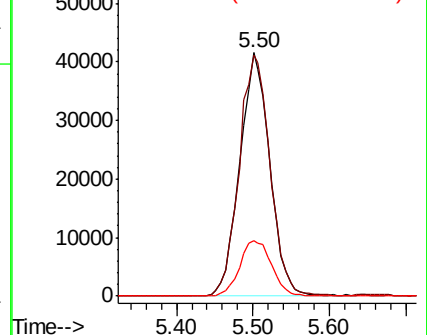
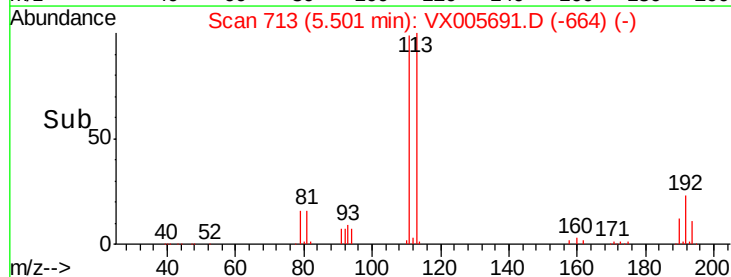
192 24.2 17.9 26.9

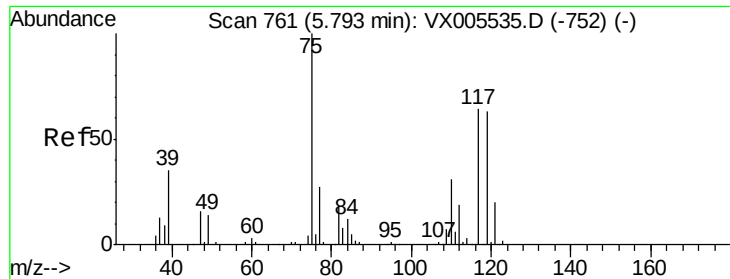


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

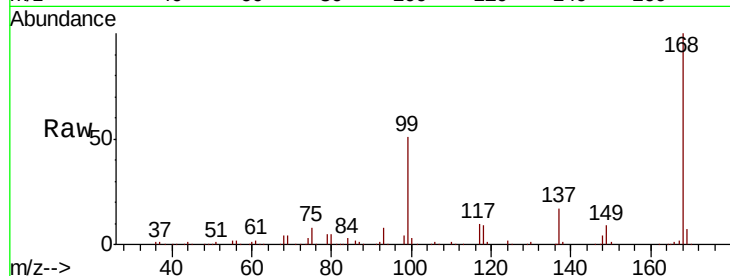




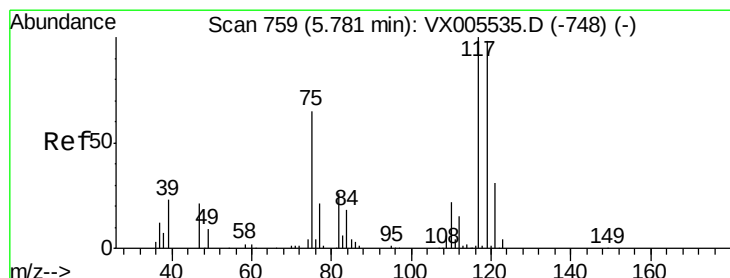
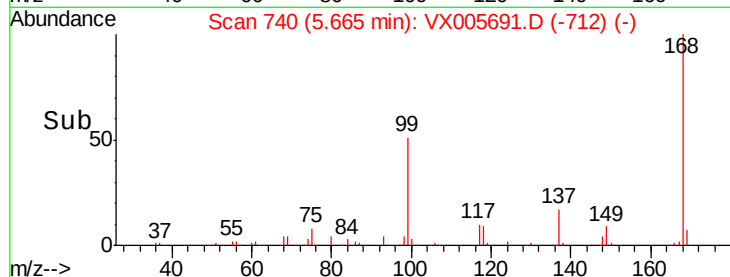
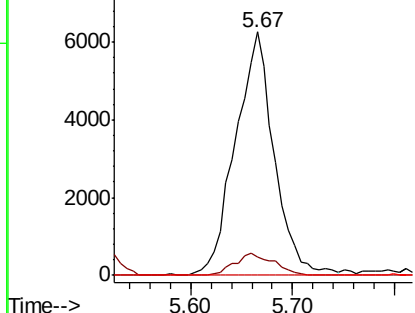
#36
 1,1-Dichloropropene
 Concen: 4.992 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005691.D
 Acq: 30 Oct 2018 15:00

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114242ZHE#02

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.4	52.2#
77	0.0	25.8	38.6#

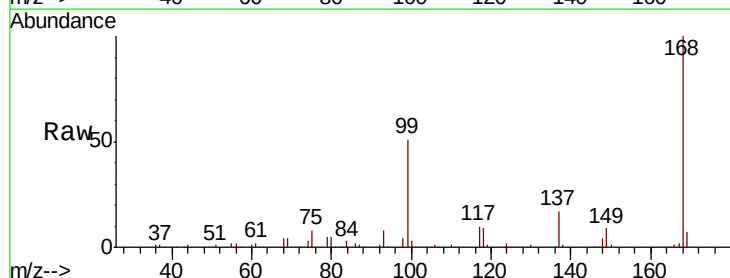


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

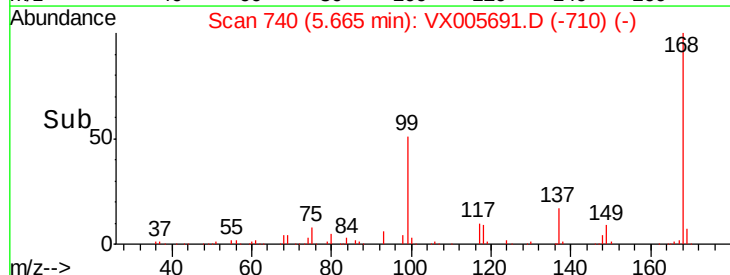
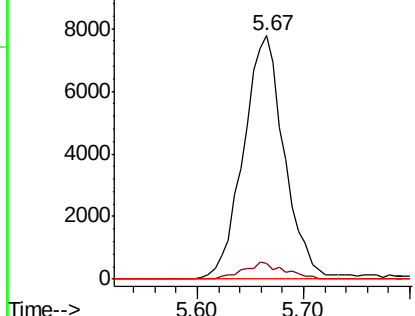


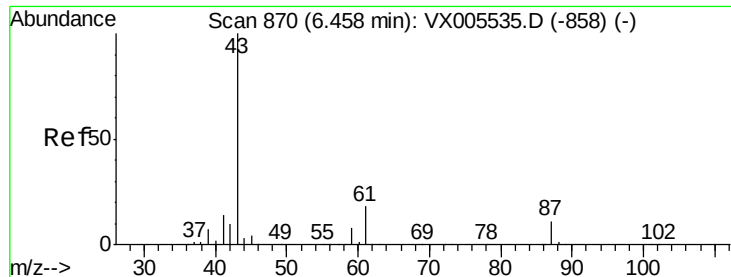
#38
 Carbon Tetrachloride
 Concen: 6.026 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005691.D
 Acq: 30 Oct 2018 15:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	78.1	117.1#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V



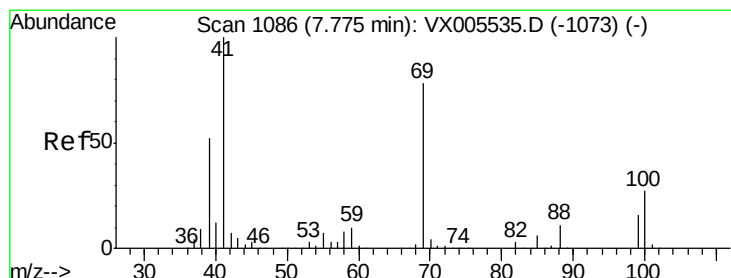
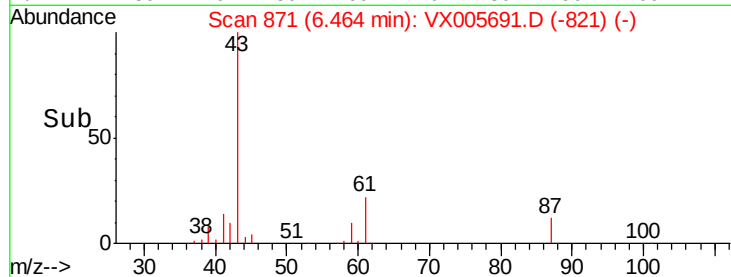
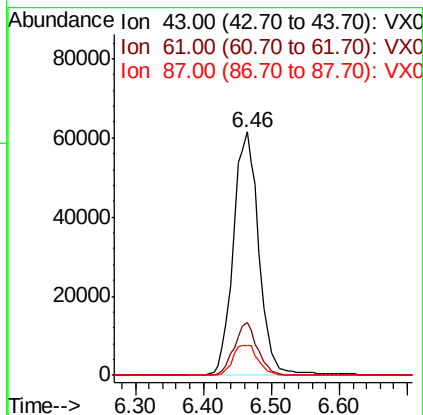
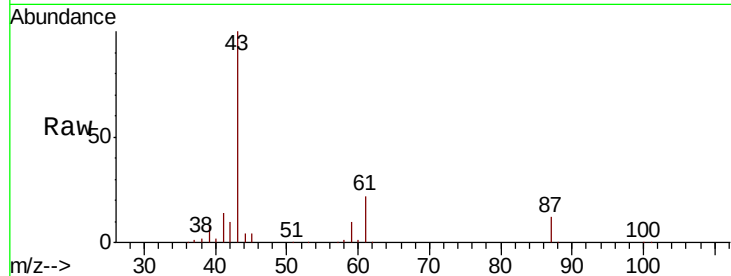


#43

Isopropyl Acetate
 Concen: 25.380 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX005691.D
 Acq: 30 Oct 2018 15:00

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114242ZHE#02

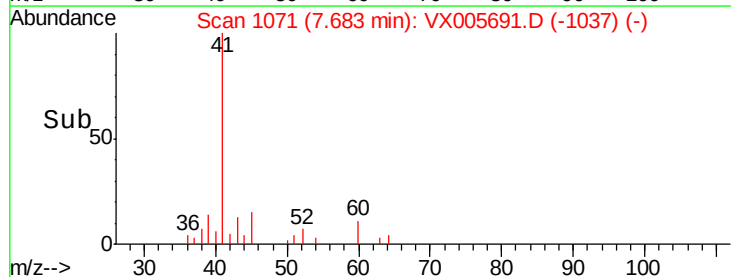
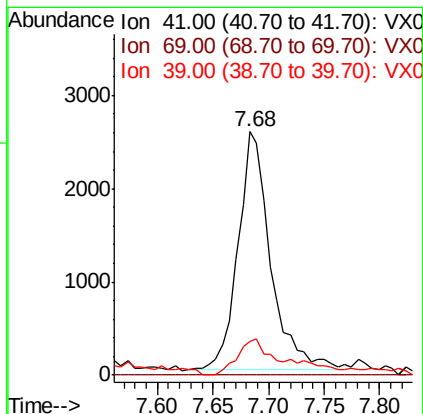
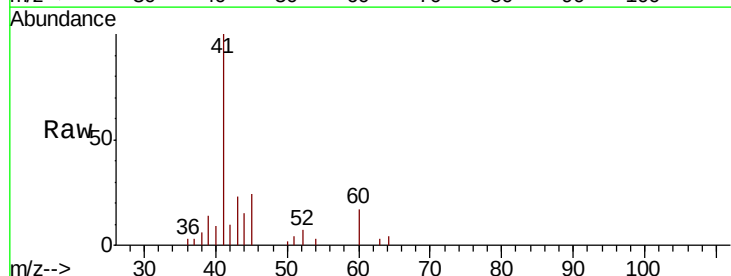
Tot Ion: 43 Resp: 160331
 Ion Ratio Lower Upper
 43 100
 61 19.8 14.6 22.0
 87 12.6 9.6 14.4

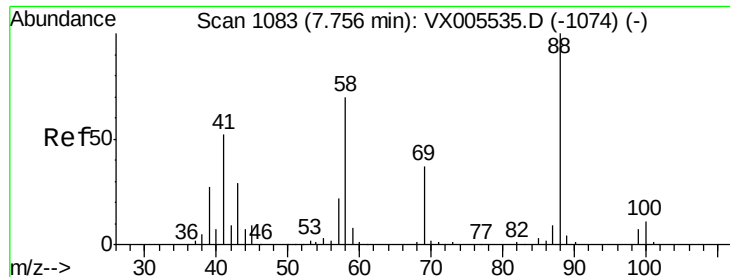


#48

Methyl methacrylate
 Concen: 1.678 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX005691.D
 Acq: 30 Oct 2018 15:00

Tgt Ion: 41 Resp: 5163
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.2 94.8#
 39 22.0 42.2 63.2#

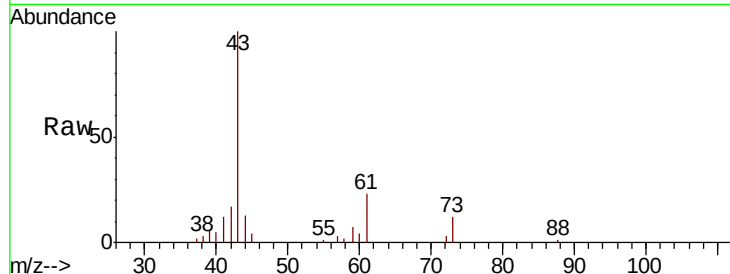




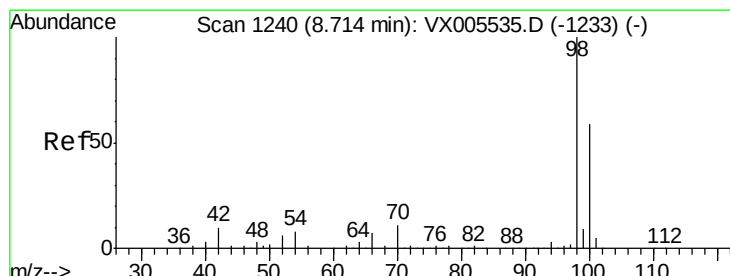
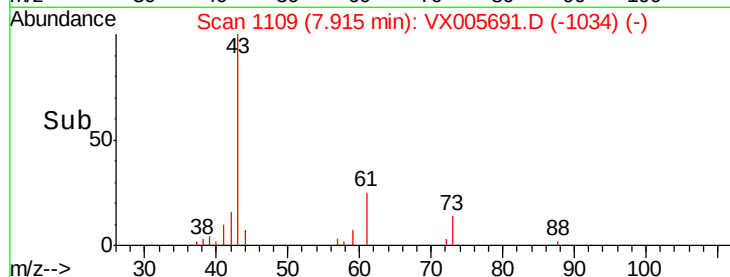
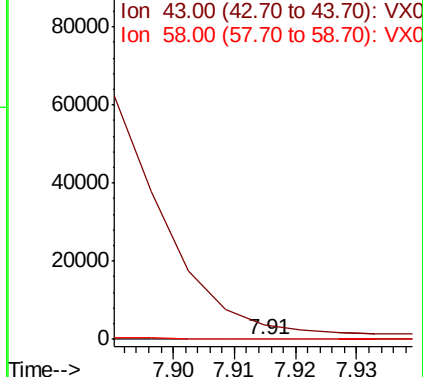
#49
1,4-Dioxane
Concen: 0.297 ug/l
RT: 7.91 min Scan# 1109
Delta R.T. 0.16 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#02

Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 59.4 89.2#

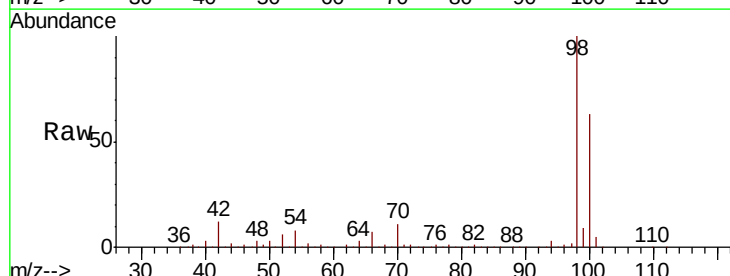


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

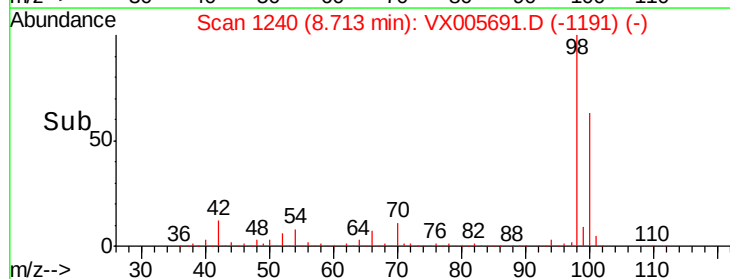
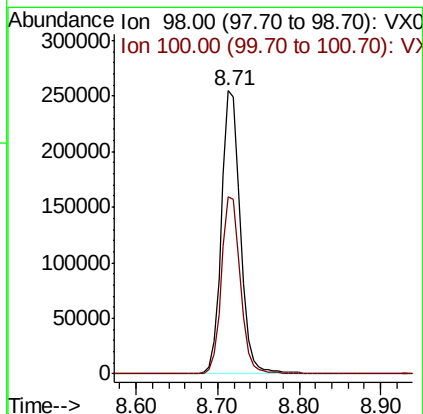


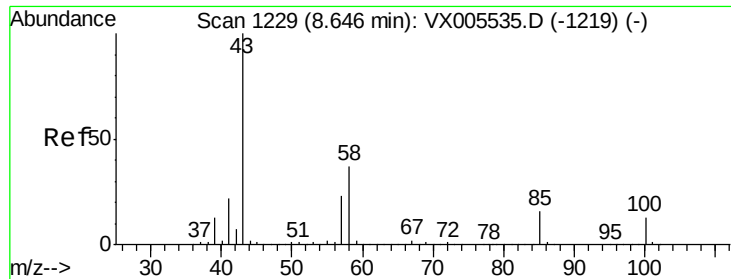
#50
Toluene-d8
Concen: 49.605 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Tgt Ion: 98 Resp: 410851
Ion Ratio Lower Upper
98 100
100 63.1 51.3 76.9



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: 0.687 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

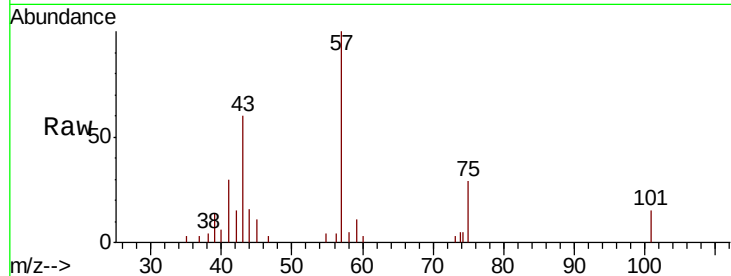
PB114242ZHE#02

Tot Ion: 43 Resp: 2917

Ion Ratio Lower Upper

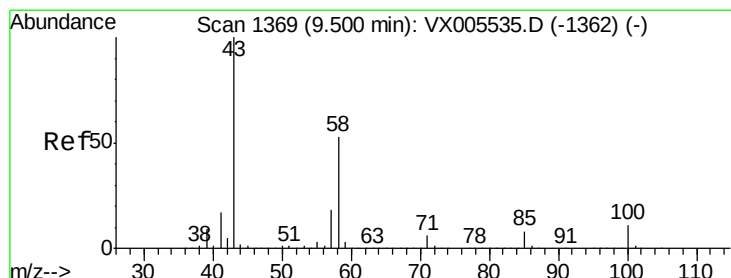
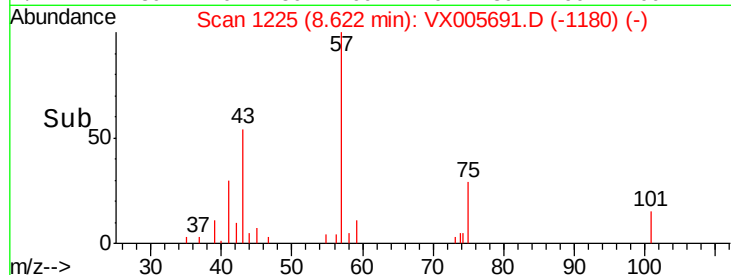
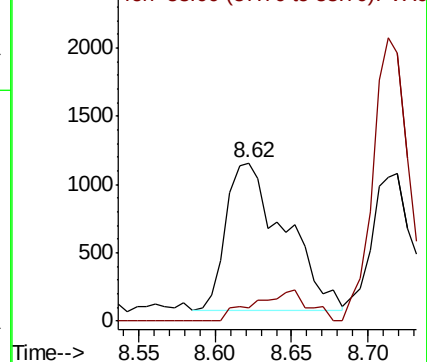
43 100

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



#59

2-Hexanone

Concen: 2.465 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005691.D

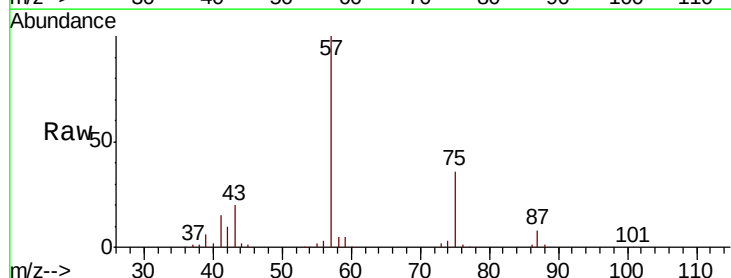
Acq: 30 Oct 2018 15:00

Tgt Ion: 43 Resp: 8251

Ion Ratio Lower Upper

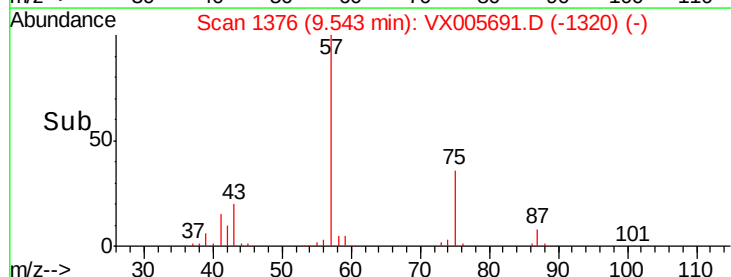
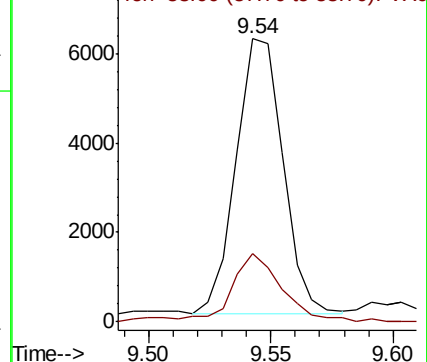
43 100

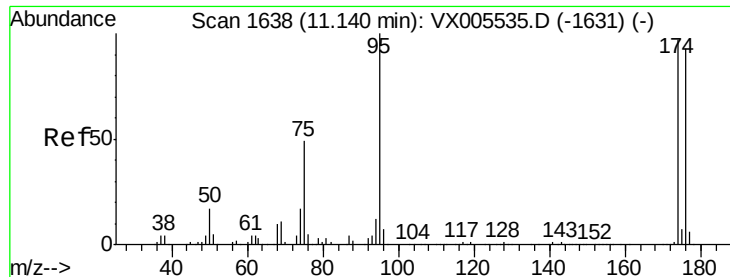
58 27.7 25.9 77.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

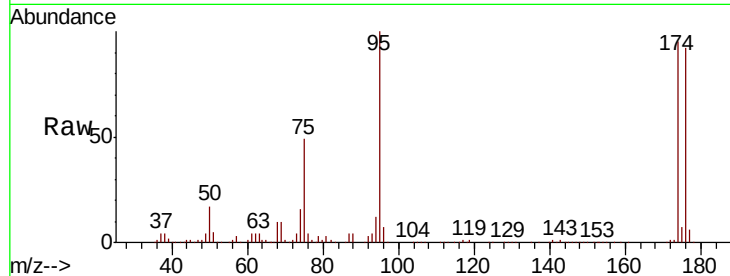




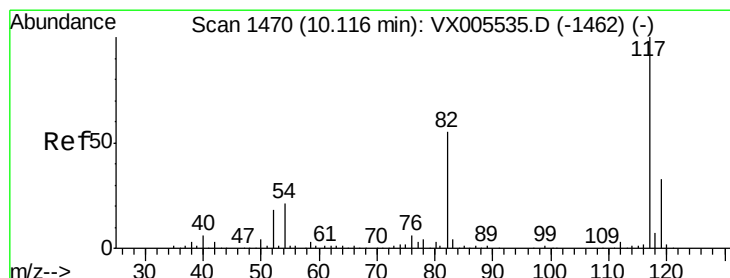
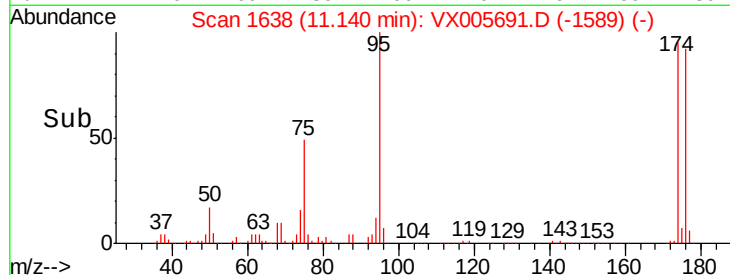
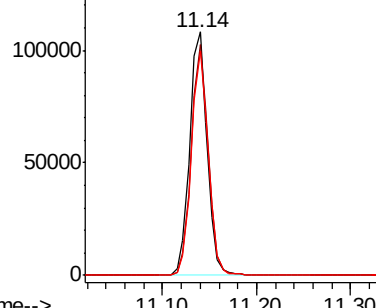
#62
4-Bromofluorobenzene
Concen: 44.533 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#02

Tot Ion: 95 Resp: 139290
Ion Ratio Lower Upper
95 100
174 92.5 0.0 184.4
176 89.6 0.0 177.4

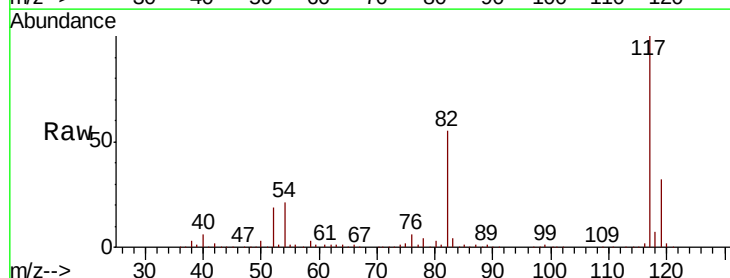


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

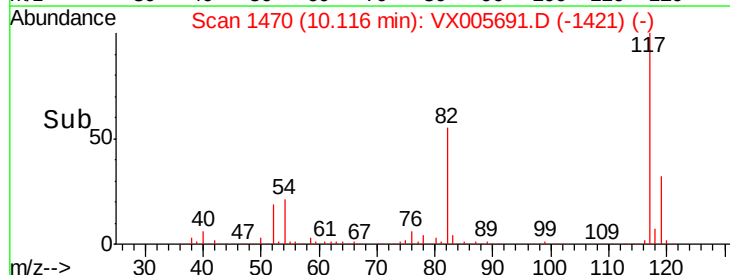
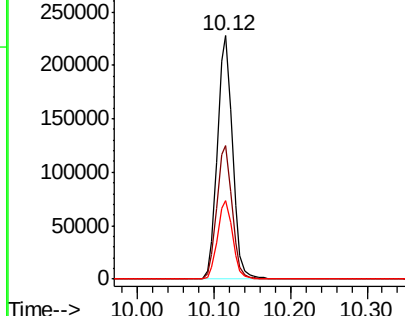


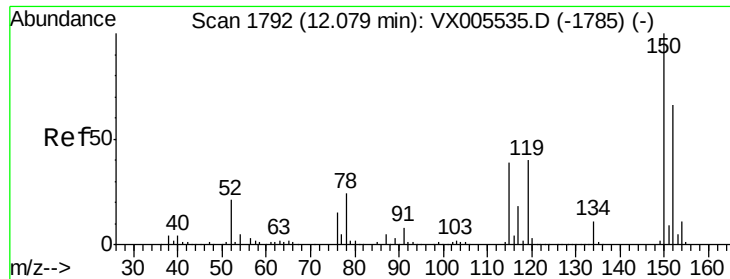
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Tgt Ion: 117 Resp: 313002
Ion Ratio Lower Upper
117 100
82 54.8 44.1 66.1
119 32.3 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



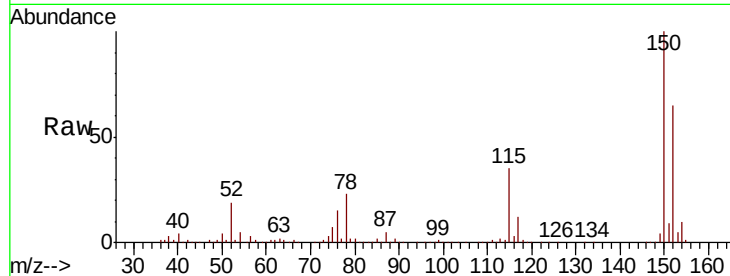


#72

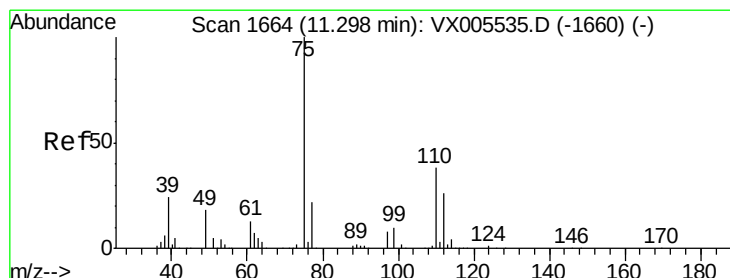
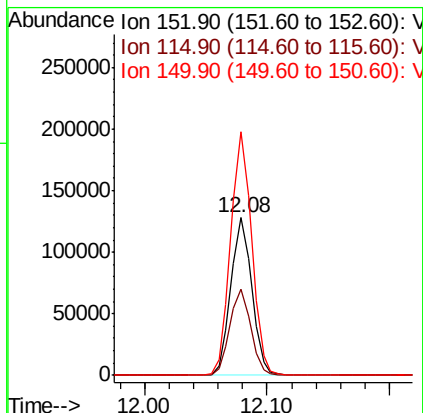
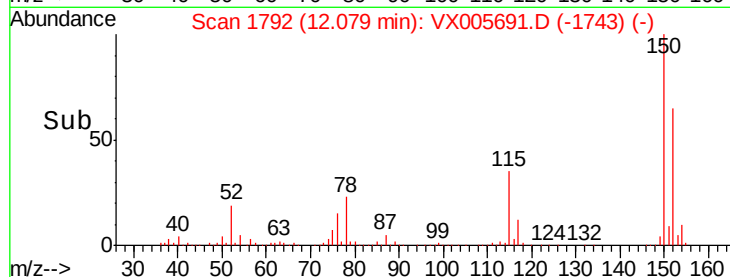
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#02

Tot Ion:152 Resp: 151287
Ion Ratio Lower Upper
152 100
115 55.0 39.4 118.1
150 154.7 0.0 346.4



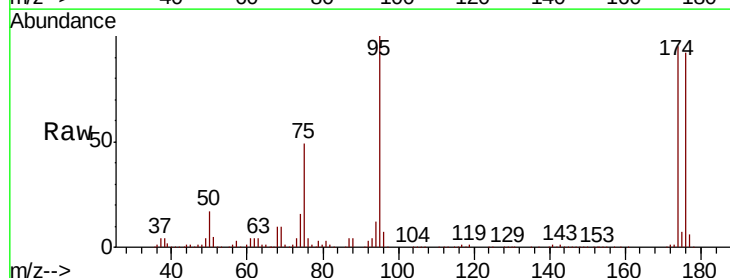
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



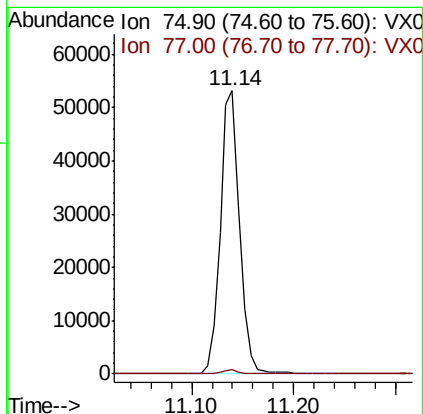
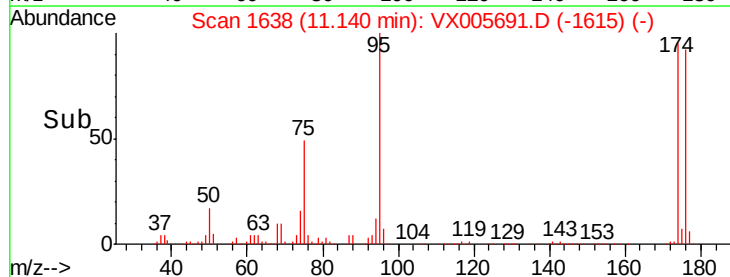
#76

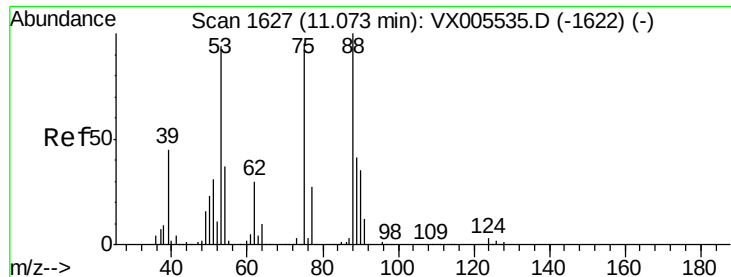
1,2,3-Trichloropropane
Concen: 21.843 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005691.D
Acq: 30 Oct 2018 15:00

Tgt Ion: 75 Resp: 70015
Ion Ratio Lower Upper
75 100
77 1.2 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.372 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005691.D

Acq: 30 Oct 2018 15:00

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#02

Tot Ion: 75 Resp: 70015

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

89 0.2 39.8 59.8#

