

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091818\
 Data File : VX004689.D
 Acq On : 19 Sep 2018 06:02
 Operator : JC/MD
 Sample : J4957-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 19 12:20:56 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	5.66	168	274249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	362332	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219950	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	159917	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	
35) Dibromofluoromethane	5.51	113	151261	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
50) Toluene-d8	8.71	98	498806	44.86	ug/l	0.00
Spiked Amount			Recovery	=	89.72%	
62) 4-Bromofluorobenzene	11.14	95	177114	44.62	ug/l	0.00
Spiked Amount			Recovery	=	89.24%	

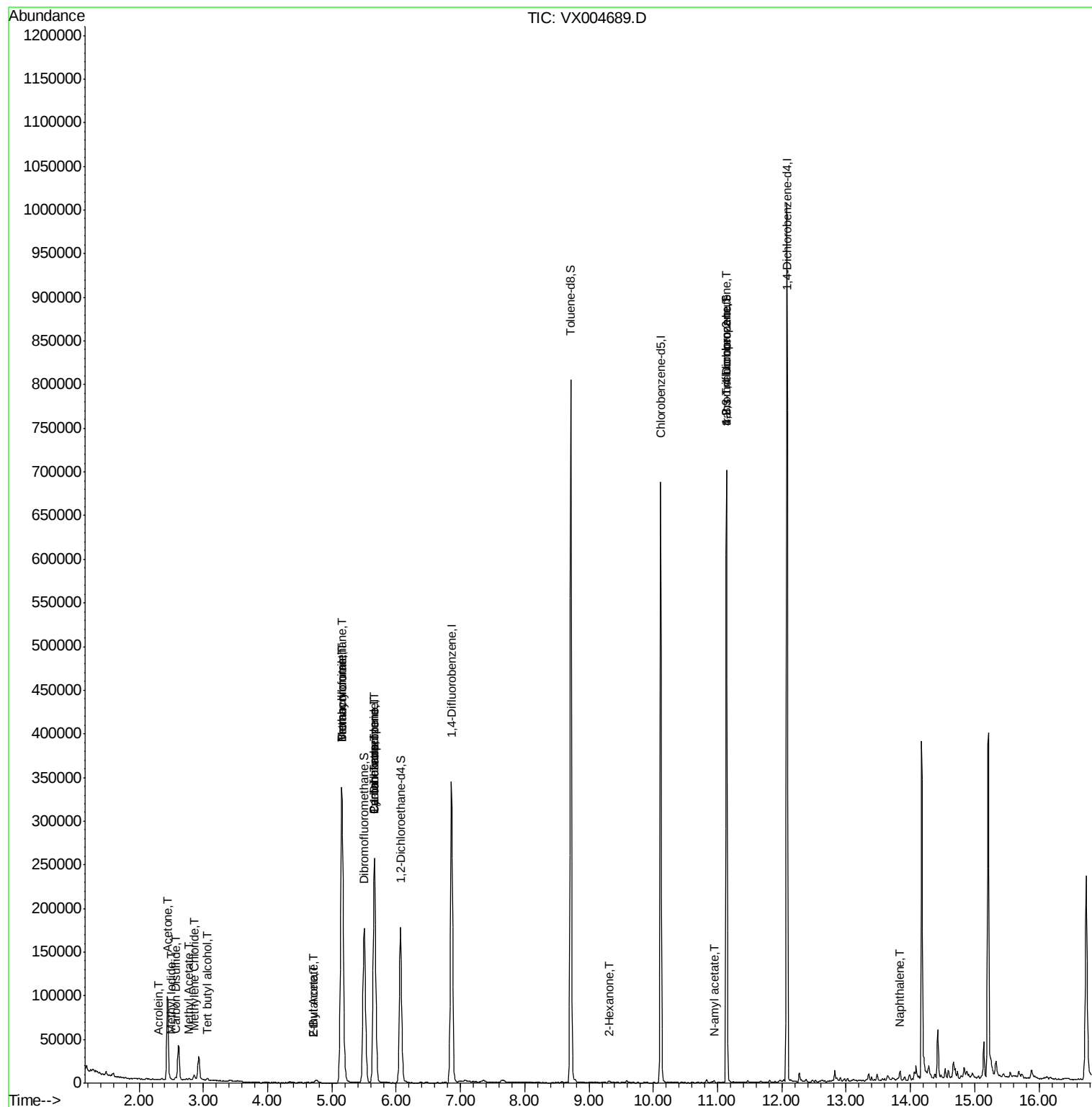
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.60	94	26	Below Cal	#	3
10) Methyl Iodide	2.51	142	96	4.280	ug/l #	68
11) Tert butyl alcohol	3.06	59	3696	4.380	ug/l	99
13) Acrolein	2.30	56	215	0.645	ug/l #	1
16) Acetone	2.44	43	100384	58.162	ug/l	95
17) Carbon Disulfide	2.57	76	2827	0.341	ug/l #	88
18) Methyl Acetate	2.77	43	1931	0.399	ug/l	99
20) Methylene Chloride	2.86	84	2679	0.757	ug/l #	84
25) 2-Butanone	4.71	43	1841	0.670	ug/l #	84
28) Bromochloromethane	5.15	49	577	0.211	ug/l #	9
29) Tetrahydrofuran	5.15	42	314089	189.609	ug/l	99
31) Cyclohexane	5.65	56	4026	0.787	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17098	3.887	ug/l #	49
37) Ethyl Acetate	4.71	43	1841	0.368	ug/l #	69
38) Carbon Tetrachloride	5.66	117	23300	5.423	ug/l #	15
41) Methacrylonitrile	5.15	41	171189	62.102	ug/l #	42
59) 2-Hexanone	9.31	43	1436	0.399	ug/l	67
74) N-amyl acetate	10.94	43	1668	0.274	ug/l #	40
76) 1,2,3-Trichloropropane	11.14	75	82007	18.532	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	82007	59.070	ug/l #	10
95) Naphthalene	13.83	128	7980	0.531	ug/l	96

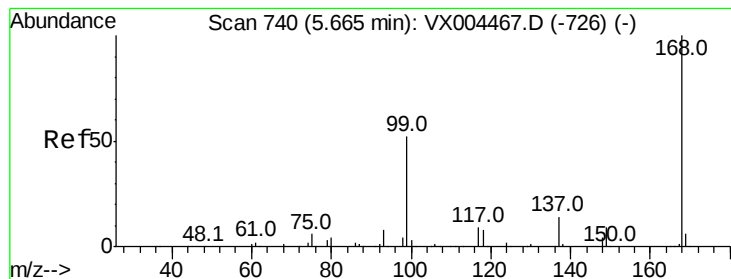
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Instrument :

MSVOA_X

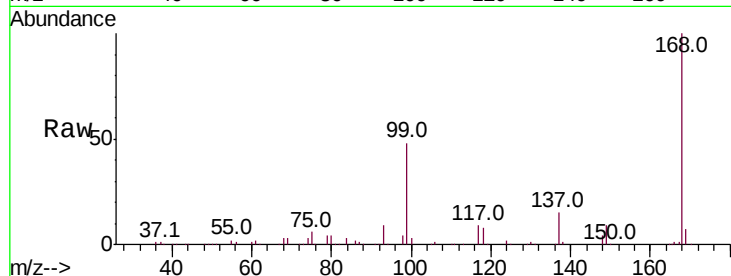
ClientSampleId :

Tot Ion:168 Resp: 274249

Ion Ratio Lower Upper

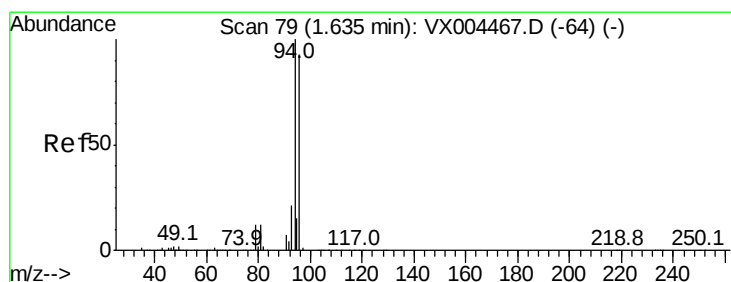
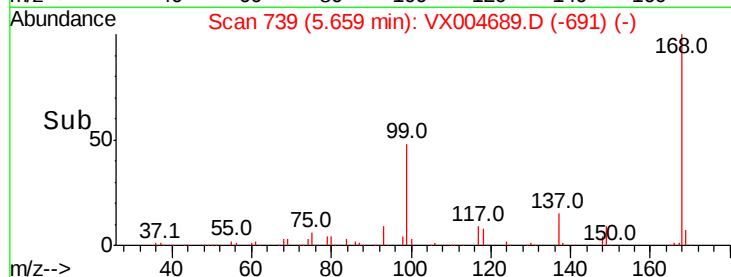
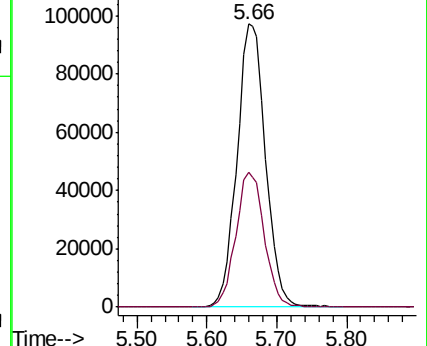
168 100

99 47.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 73

Delta R.T. -0.04 min

Lab File: VX004689.D

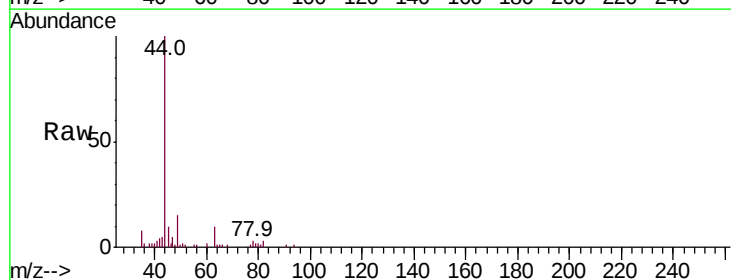
Acq: 19 Sep 2018 06:02

Tgt Ion: 94 Resp: 26

Ion Ratio Lower Upper

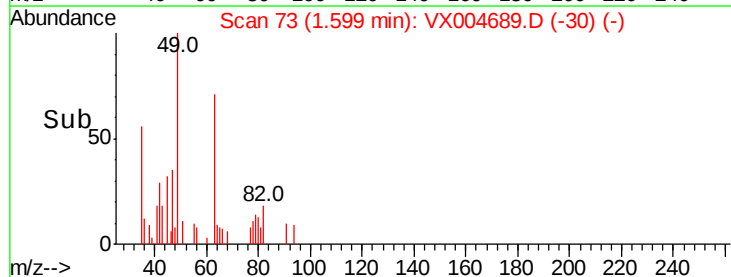
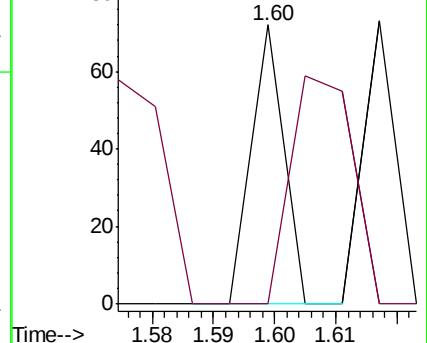
94 100

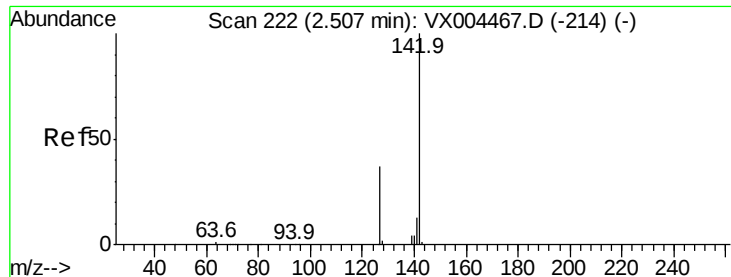
96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

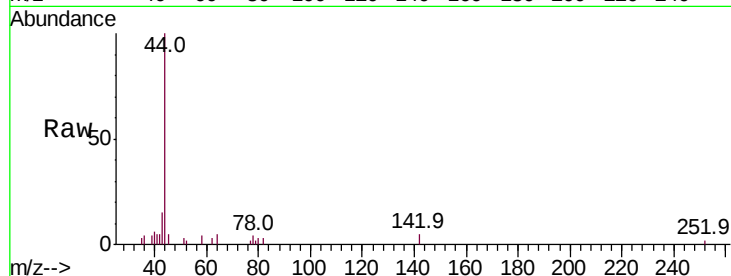




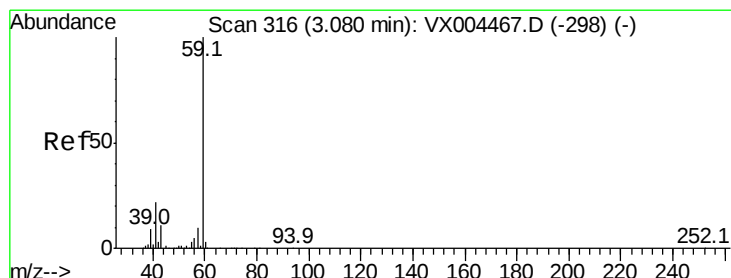
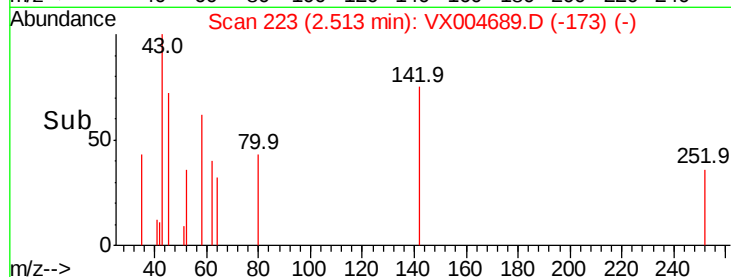
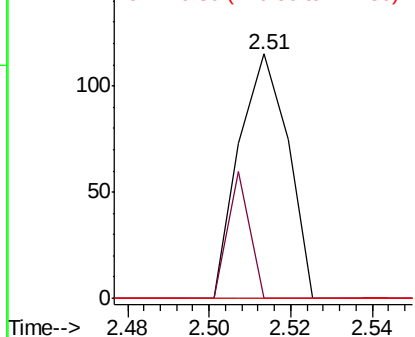
#10
Methvl Iodide
Concen: 4.280 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 96
Ion Ratio Lower Upper
142 100
127 22.9 33.8 50.6#
141 0.0 11.4 17.0#

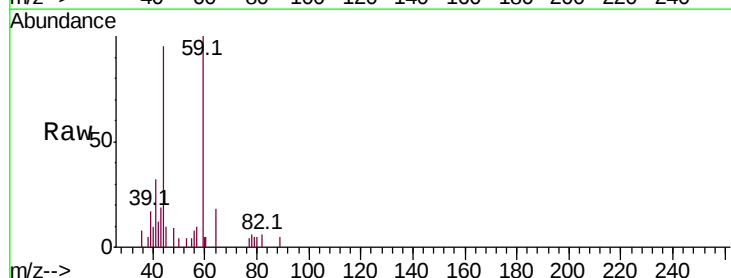


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

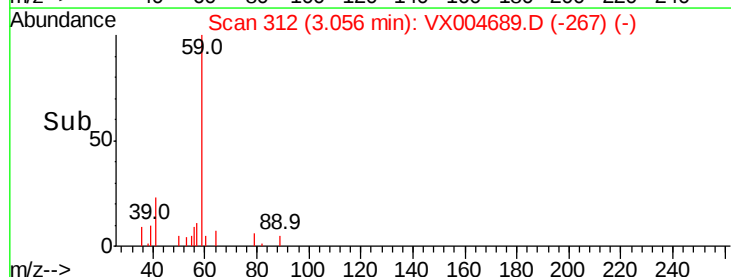
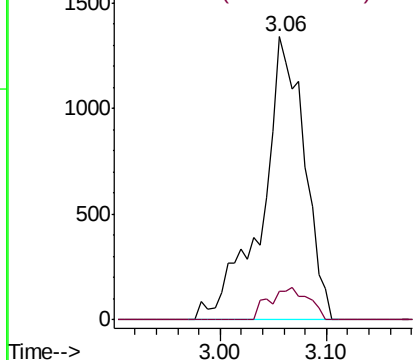


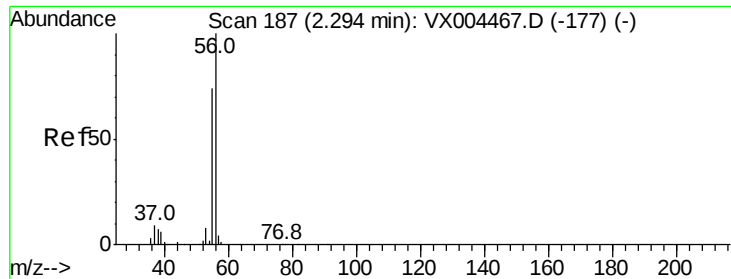
#11
Tert butyl alcohol
Concen: 4.380 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Tgt Ion: 59 Resp: 3696
Ion Ratio Lower Upper
59 100
57 10.5 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: 0.645 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

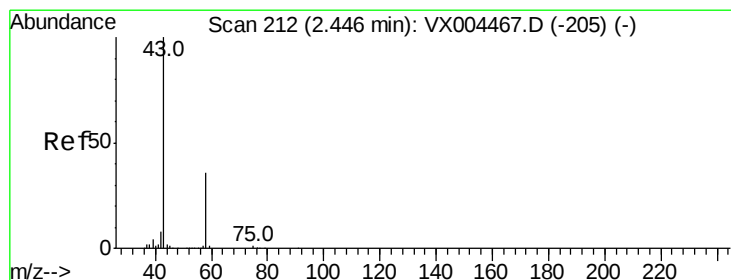
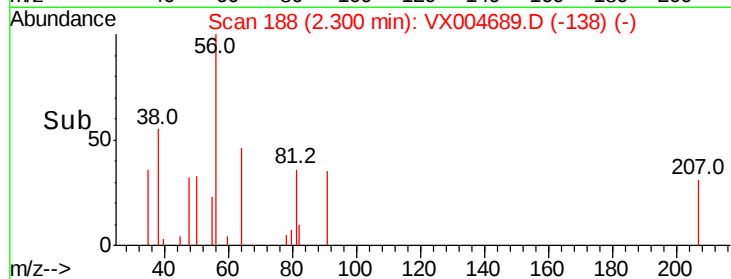
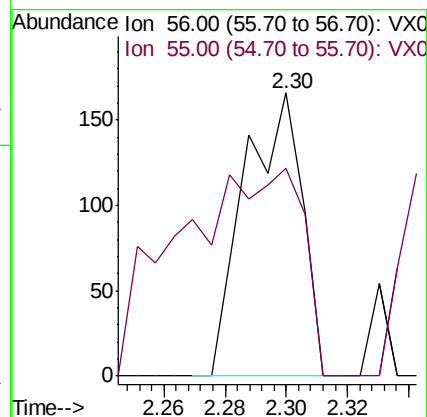
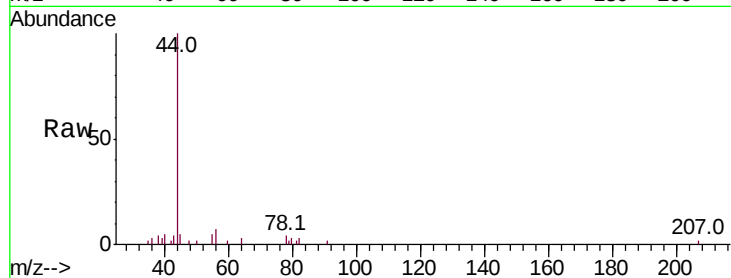
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 215

Ion Ratio Lower Upper

56 100

55 160.5 54.7 82.1#



#16

Acetone

Concen: 58.162 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004689.D

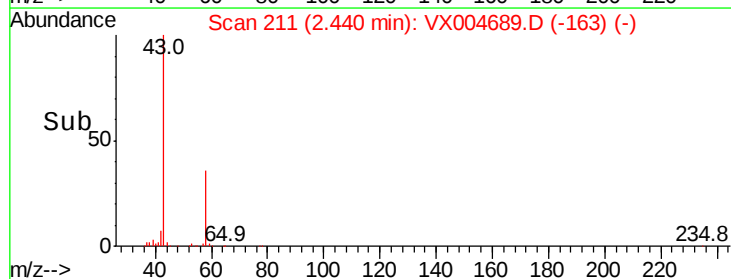
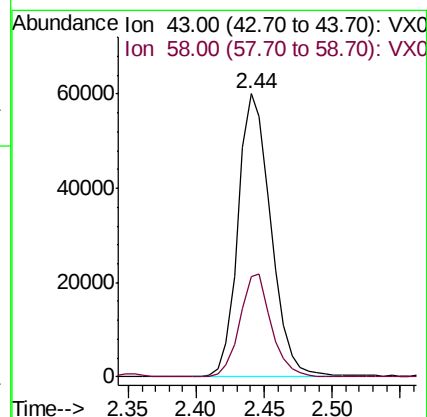
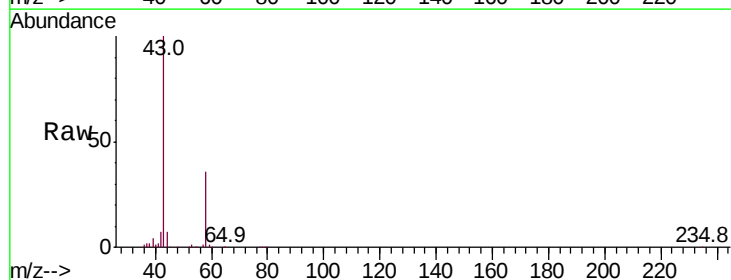
Acq: 19 Sep 2018 06:02

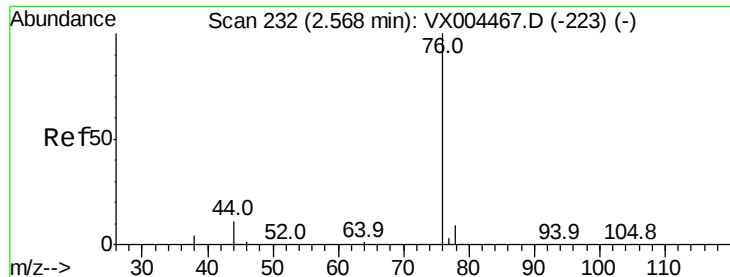
Tgt Ion: 43 Resp: 100384

Ion Ratio Lower Upper

43 100

58 35.6 26.2 39.4

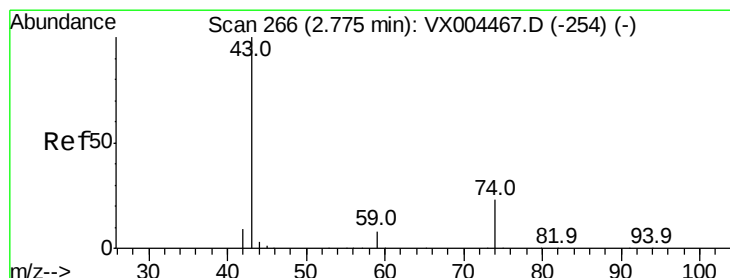
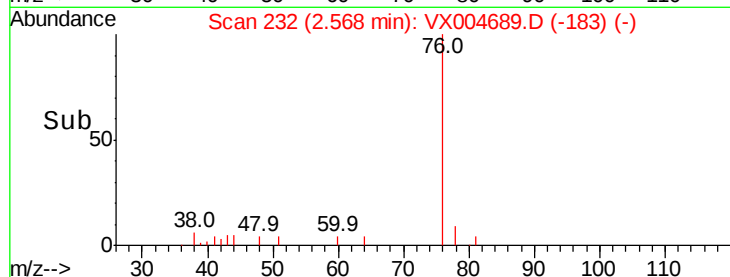
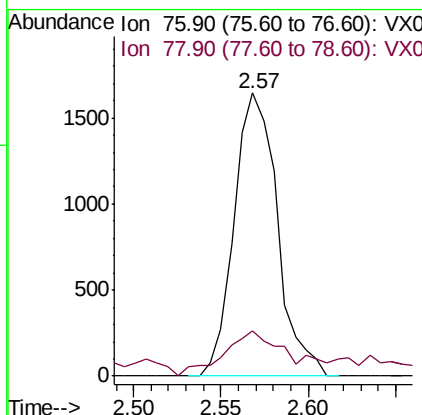
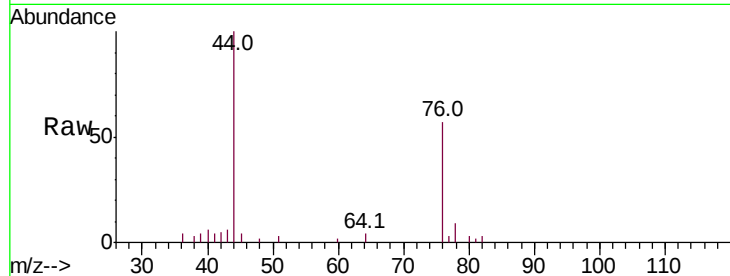




#17
Carbon Disulfide
Concen: 0.341 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

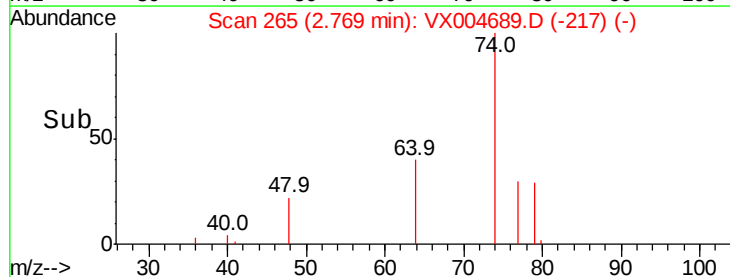
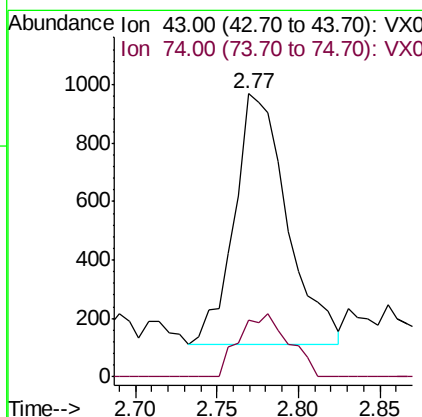
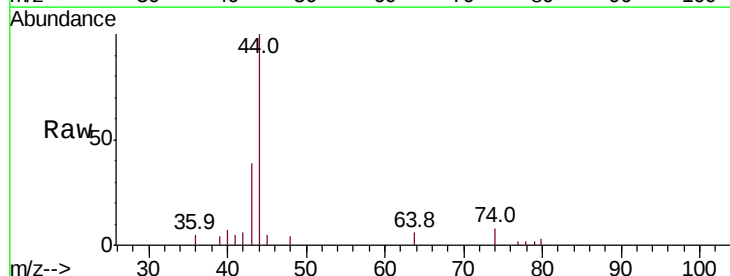
Instrument :
MSVOA_X
ClientSampleId :

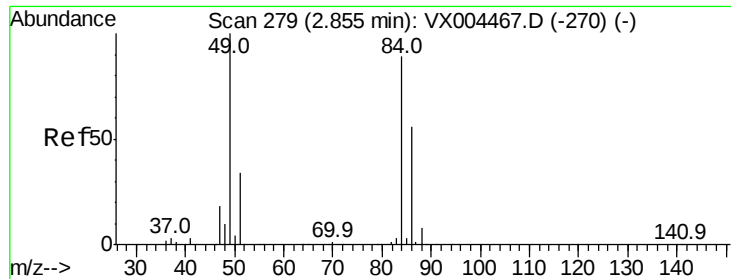
Tot Ion: 76 Resp: 2827
Ion Ratio Lower Upper
76 100
78 13.0 7.0 10.6#



#18
Methyl Acetate
Concen: 0.399 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Tgt Ion: 43 Resp: 1931
Ion Ratio Lower Upper
43 100
74 23.8 19.4 29.2





#20

Methylene Chloride

Concen: 0.757 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

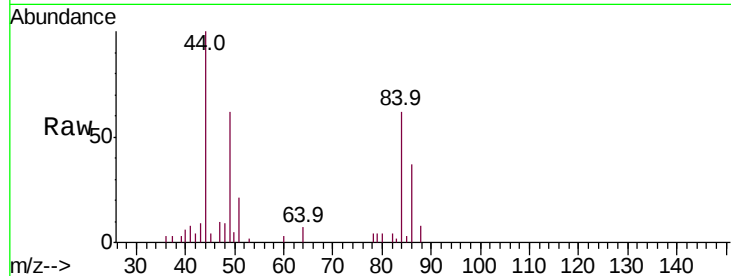
Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

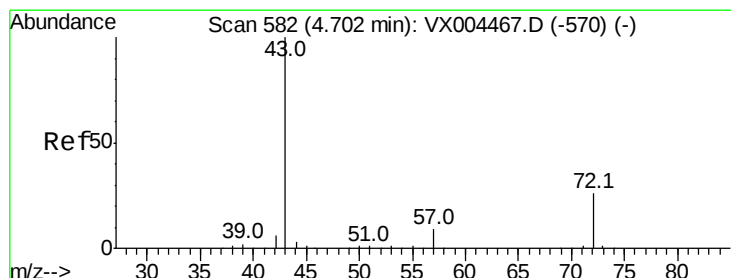
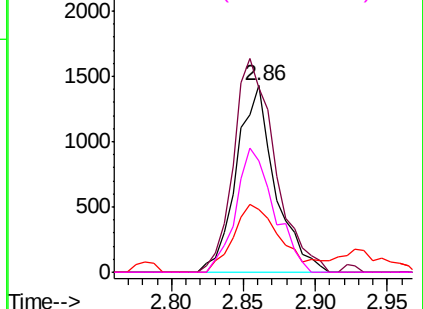
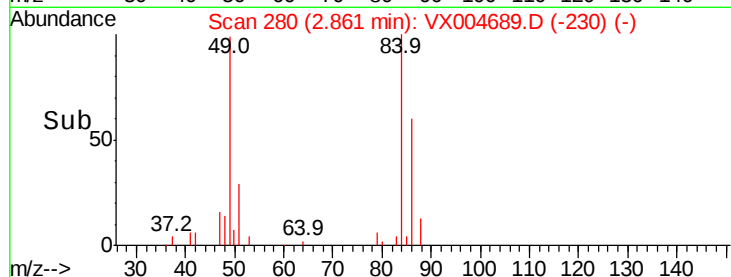
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 2679

Ion	Ratio	Lower	Upper
84	100		
49	98.7	101.2	151.8#
51	33.4	29.5	44.3
86	59.7	52.3	78.5



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: 0.670 ug/l

RT: 4.71 min Scan# 583

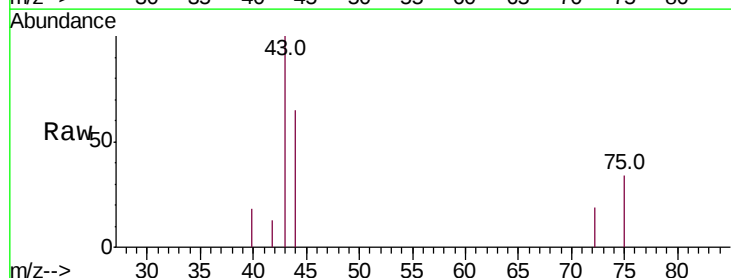
Delta R.T. 0.01 min

Lab File: VX004689.D

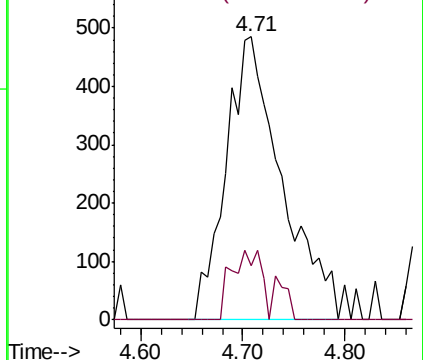
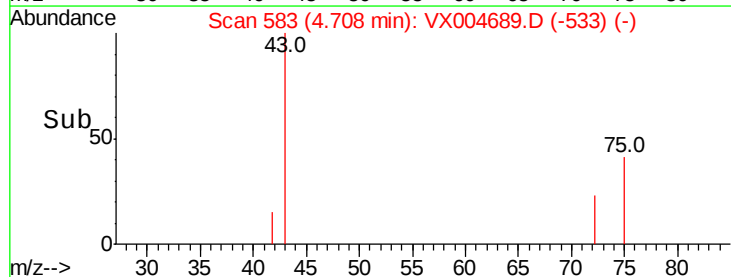
Acq: 19 Sep 2018 06:02

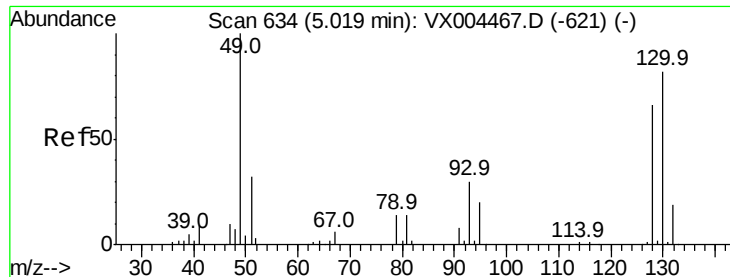
Tgt Ion: 43 Resp: 1841

Ion	Ratio	Lower	Upper
43	100		
72	19.0	22.0	33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: 0.211 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.13 min

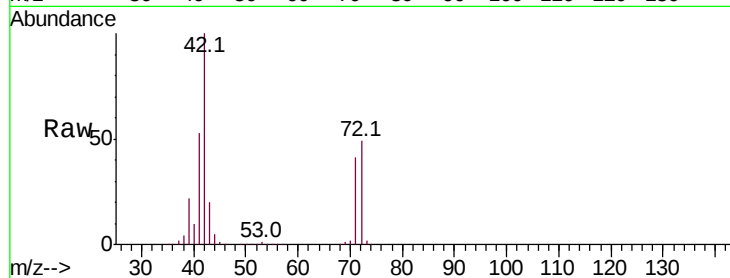
Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 577

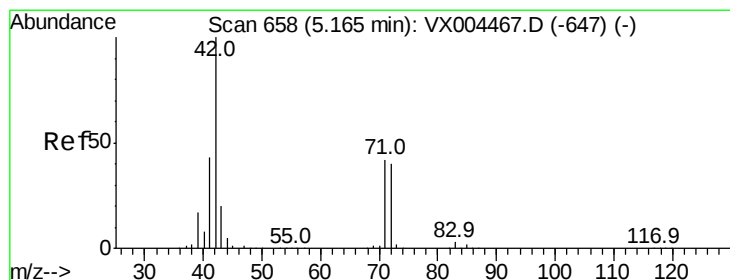
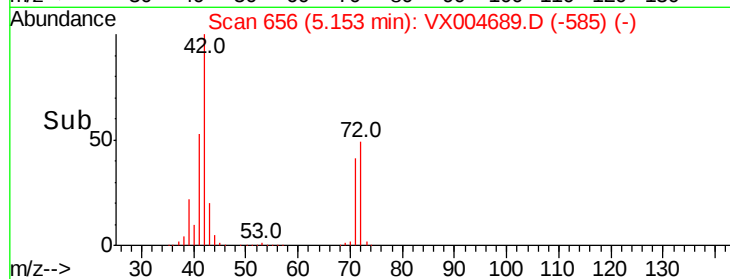
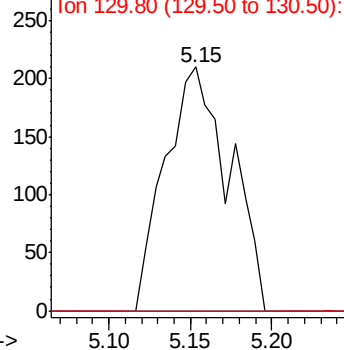
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	67.5	101.3#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 189.609 ug/l

RT: 5.15 min Scan# 656

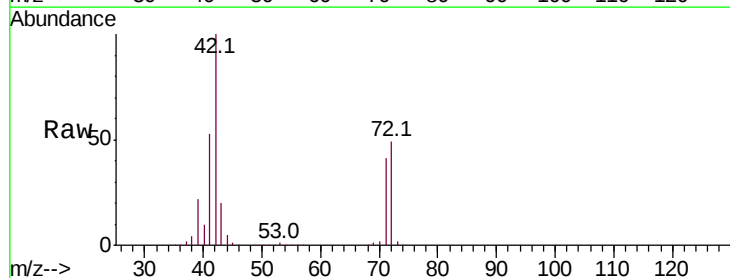
Delta R.T. -0.01 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Tgt Ion: 42 Resp: 314089

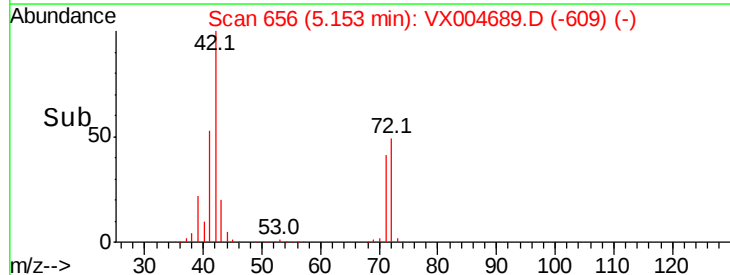
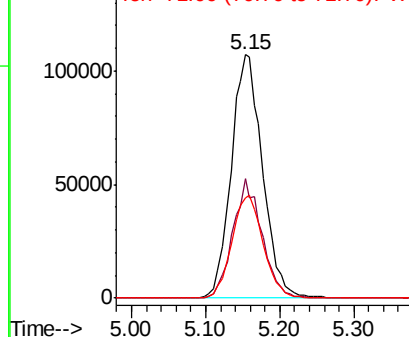
Ion	Ratio	Lower	Upper
42	100		
72	45.5	37.4	56.0
71	42.7	34.5	51.7

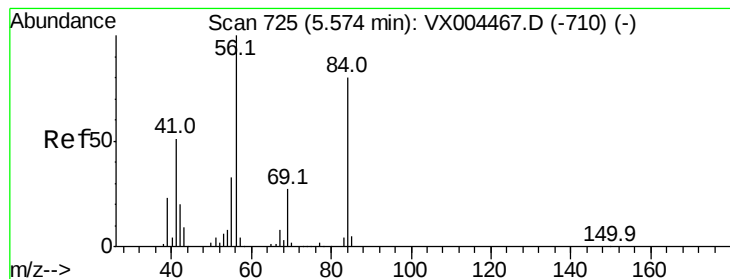


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.787 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Instrument :

MSVOA_X

ClientSampled :

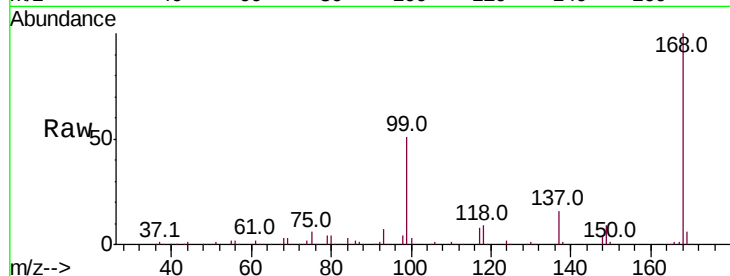
Tot Ion: 56 Resp: 4026

Ion Ratio Lower Upper

56 100

69 177.2 25.4 38.2#

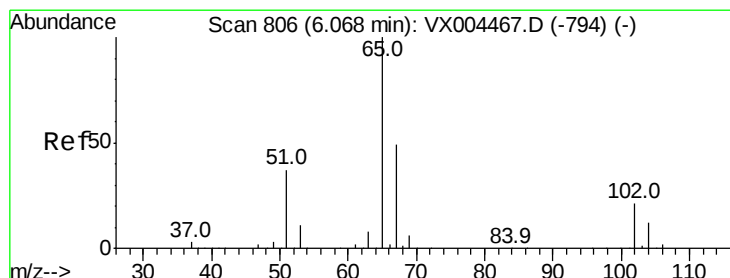
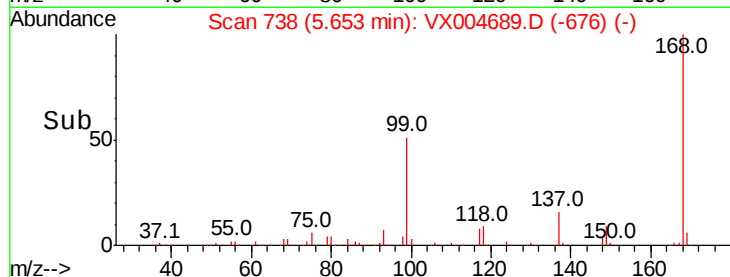
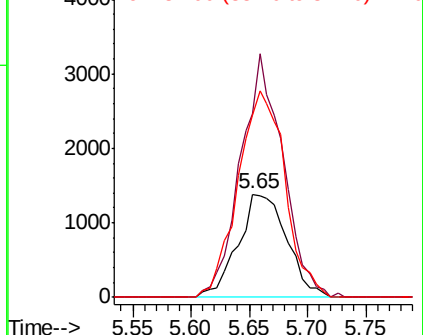
84 176.3 71.4 107.2#



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: 45.223 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004689.D

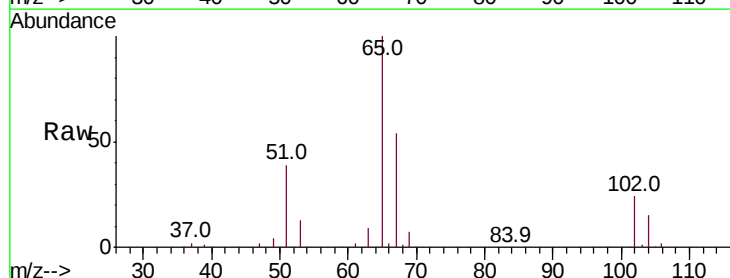
Acq: 19 Sep 2018 06:02

Tgt Ion: 65 Resp: 159917

Ion Ratio Lower Upper

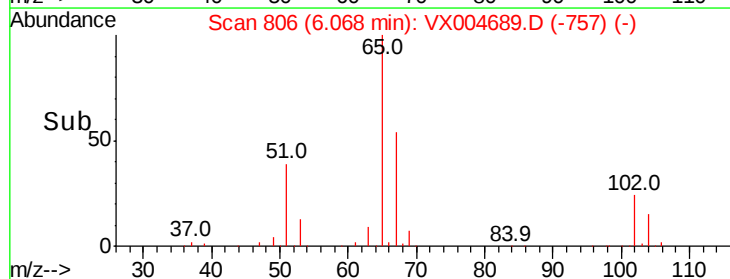
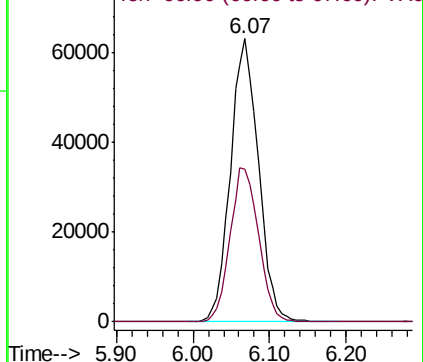
65 100

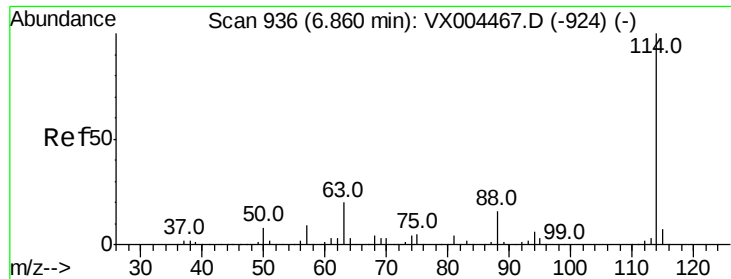
67 55.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

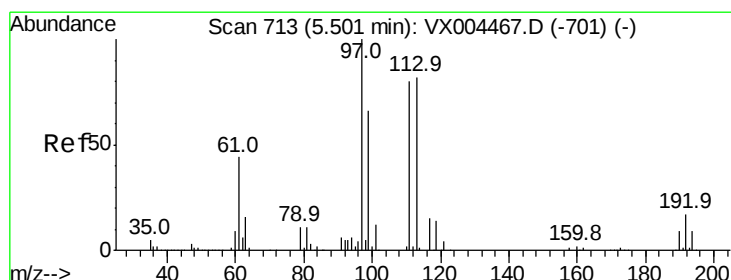
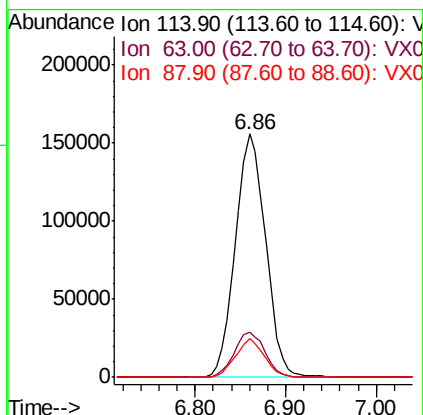
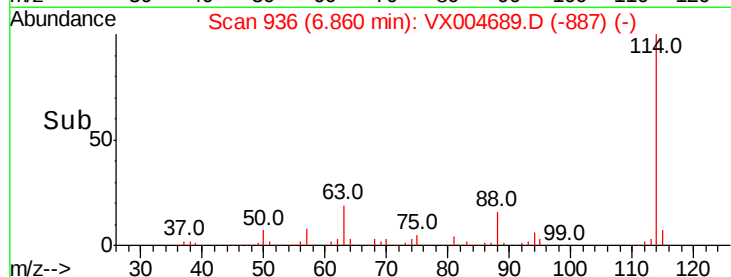
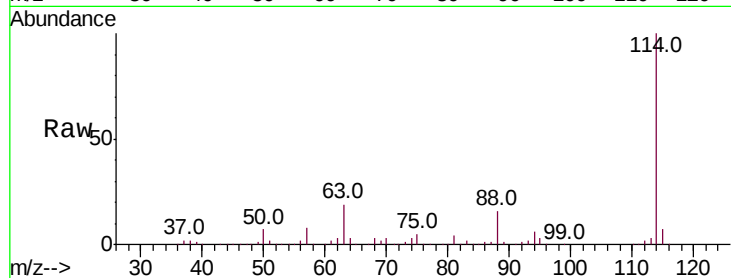




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004689.D
 Acq: 19 Sep 2018 06:02

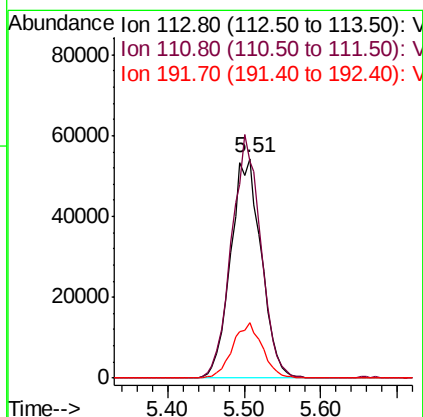
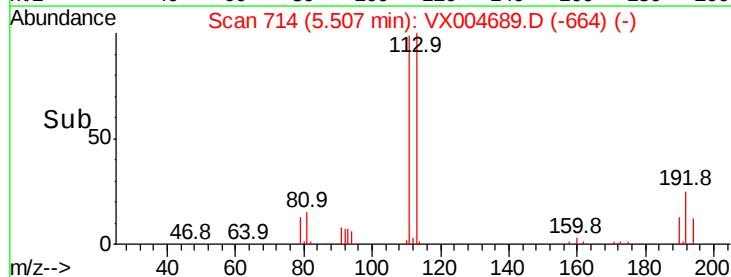
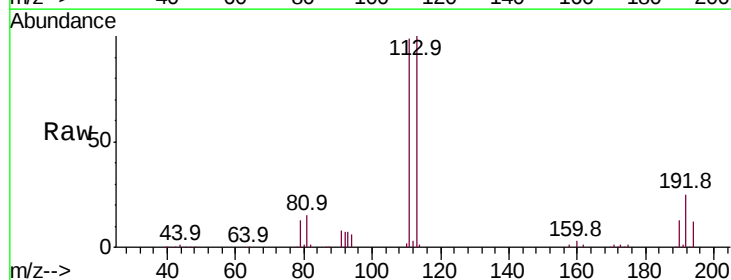
Instrument :
 MSVOA_X
 ClientSampleId :

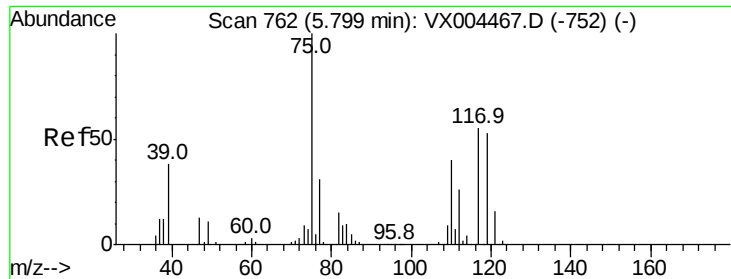
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	39.0
88	15.7	0.0	30.4



#35
 Dibromofluoromethane
 Concen: 45.620 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004689.D
 Acq: 19 Sep 2018 06:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.6	82.4	123.6
192	24.4	19.4	29.2





#36

1,1-Dichloropropene

Concen: 3.887 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Instrument :
MSVOA_X
ClientSampled :

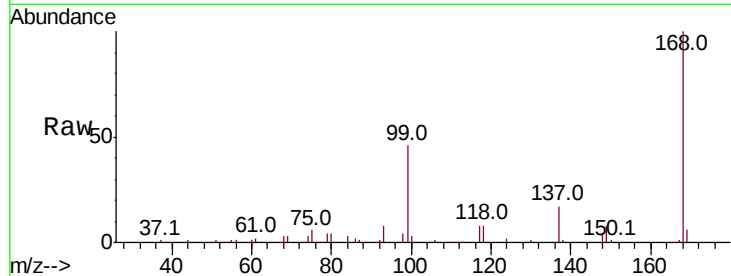
Tot Ion: 75 Resp: 17098

Ion Ratio Lower Upper

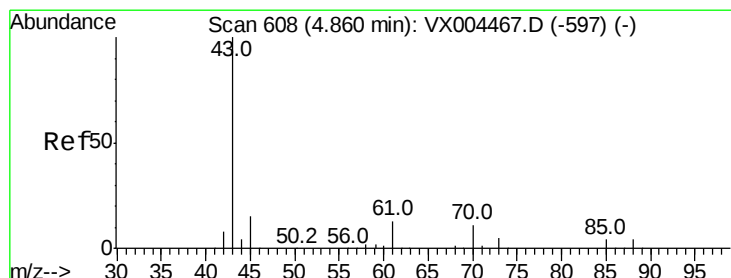
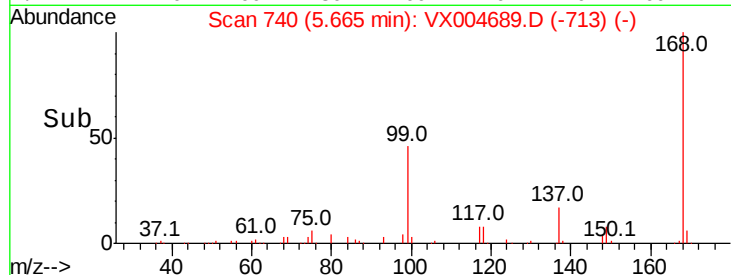
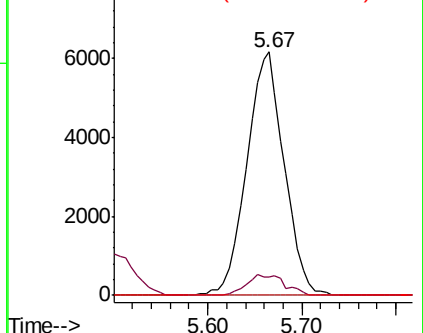
75 100

110 8.6 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



#37

Ethyl Acetate

Concen: 0.368 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

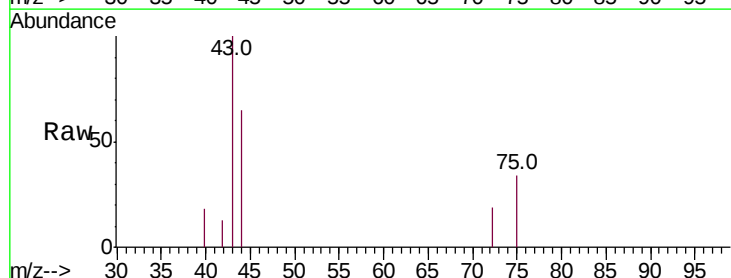
Tgt Ion: 43 Resp: 1841

Ion Ratio Lower Upper

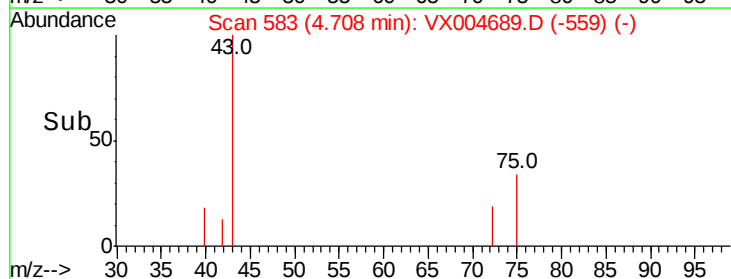
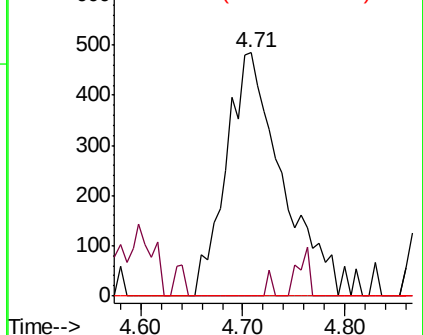
43 100

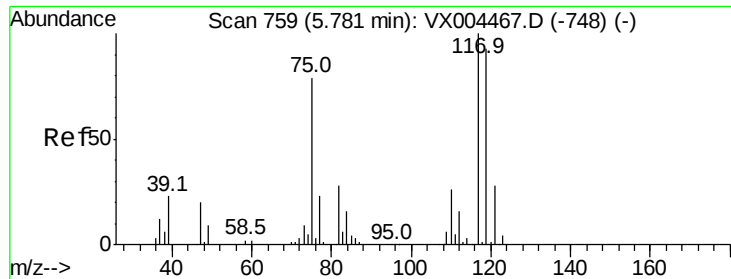
61 1.0 11.5 17.3#

70 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

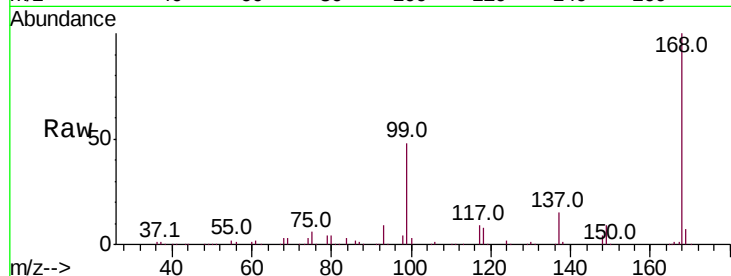




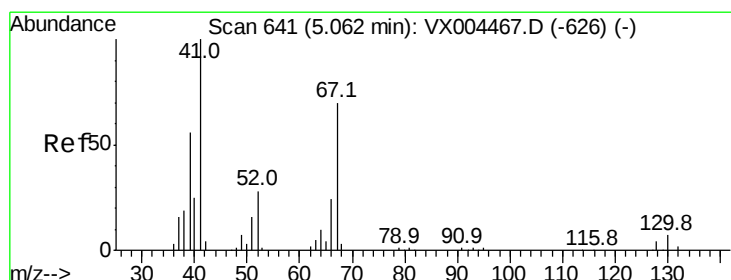
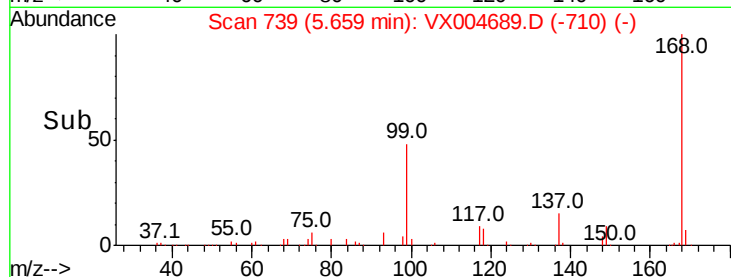
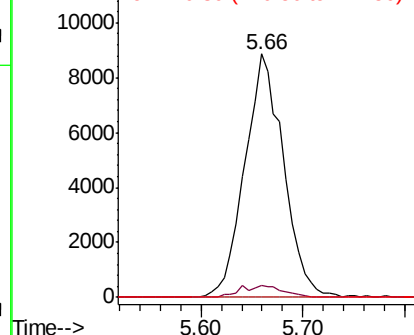
#38
Carbon Tetrachloride
Concen: 5.423 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 23300
Ion Ratio Lower Upper
117 100
119 4.7 78.8 118.2#
121 0.0 24.9 37.3#

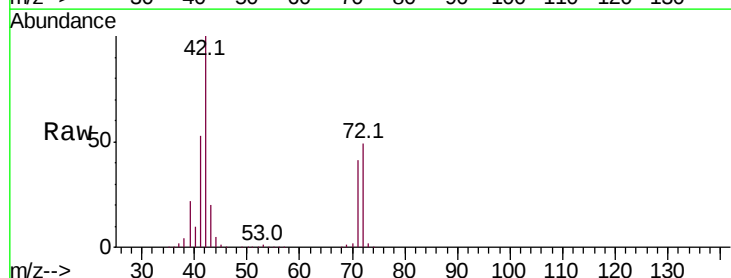


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

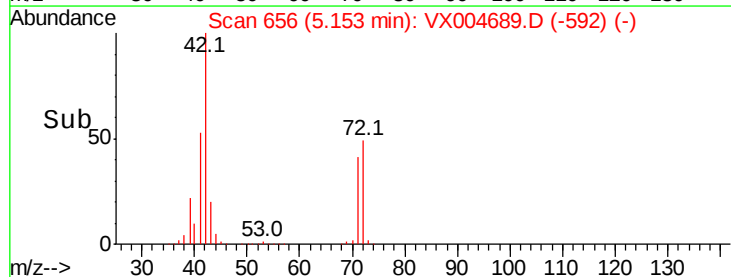
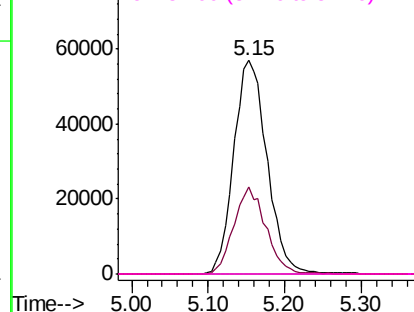


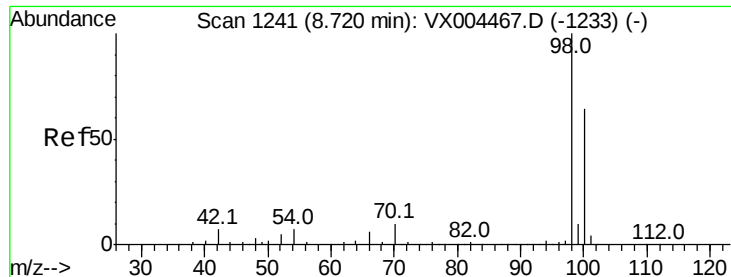
#41
Methacrylonitrile
Concen: 62.102 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.09 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Tgt Ion: 41 Resp: 171189
Ion Ratio Lower Upper
41 100
39 39.4 42.4 63.6#
67 0.0 59.2 88.8#
52 0.1 23.0 34.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

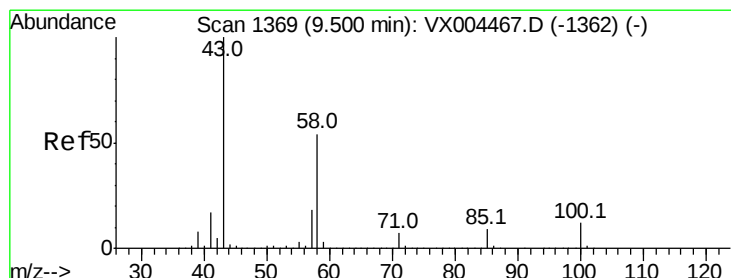
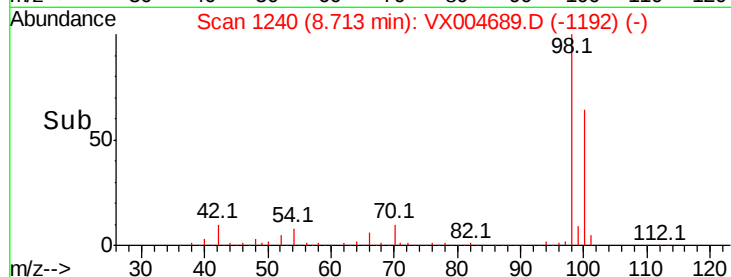
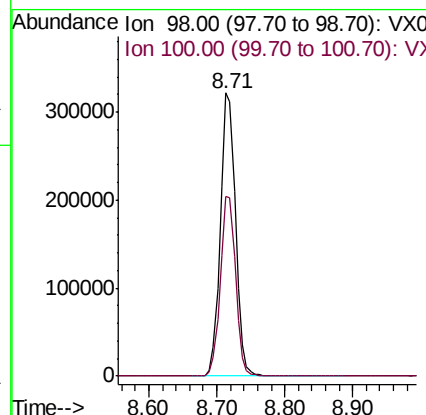
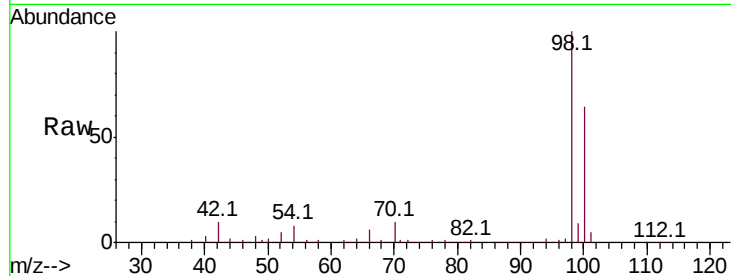




#50
Toluene-d8
Concen: 44.860 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

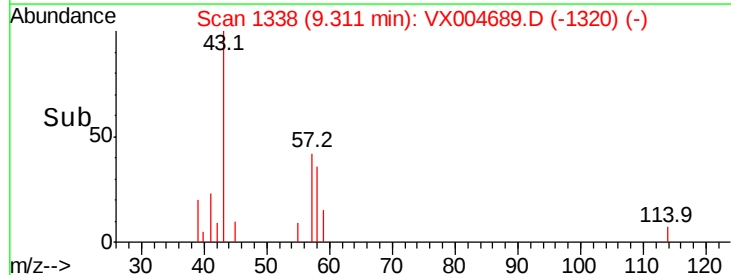
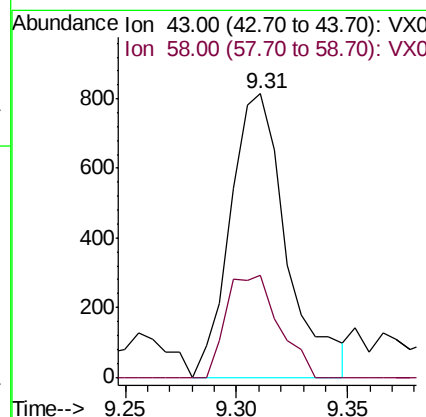
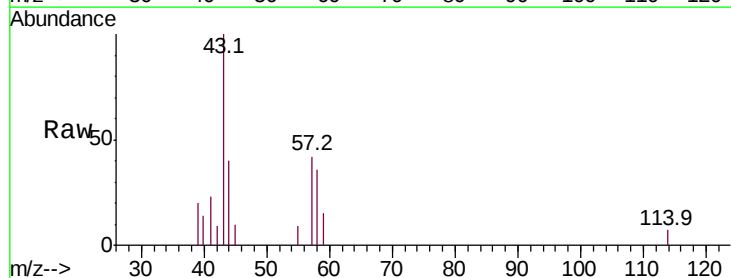
Instrument :
MSVOA_X
ClientSampleId :

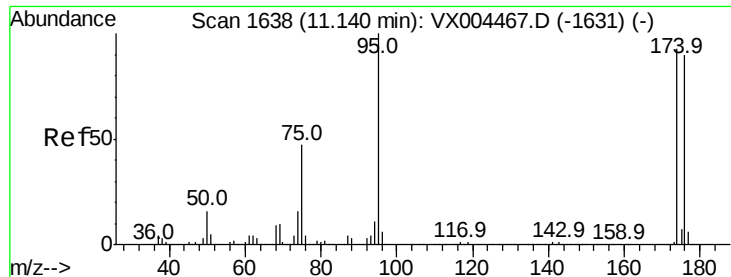
Tot Ion: 98 Resp: 498806
Ion Ratio Lower Upper
98 100
100 64.1 52.9 79.3



#59
2-Hexanone
Concen: 0.399 ug/l
RT: 9.31 min Scan# 1338
Delta R.T. -0.19 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Tgt Ion: 43 Resp: 1436
Ion Ratio Lower Upper
43 100
58 33.2 29.0 87.0

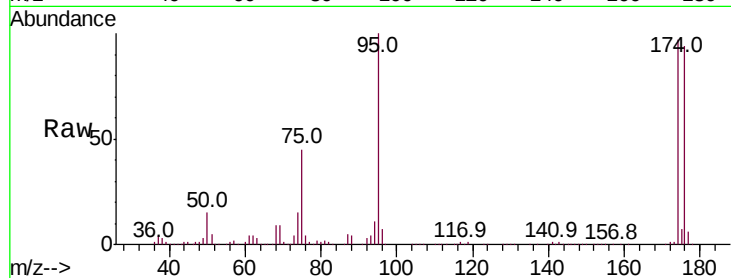




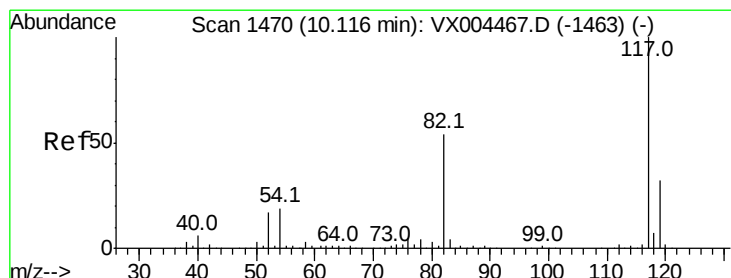
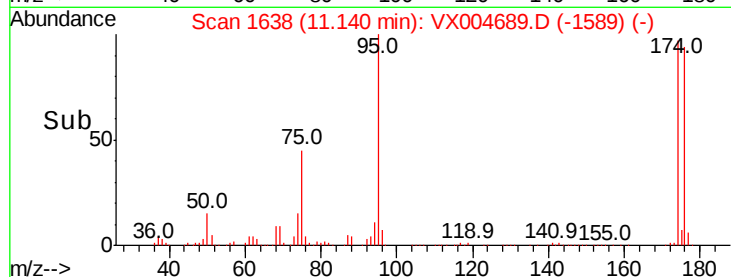
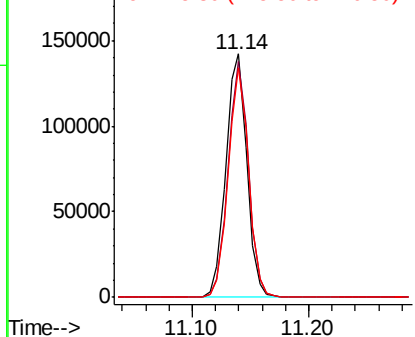
#62
4-Bromofluorobenzene
Concen: 44.624 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 177114
Ion Ratio Lower Upper
95 100
174 95.0 0.0 185.2
176 92.1 0.0 178.6

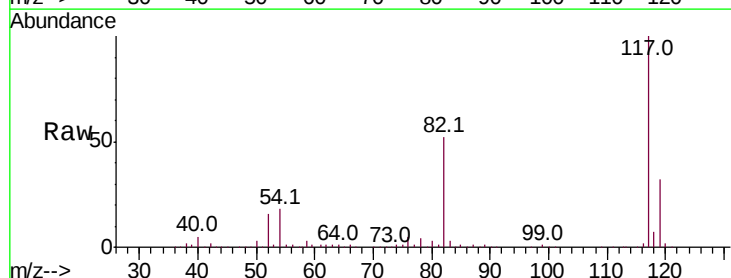


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

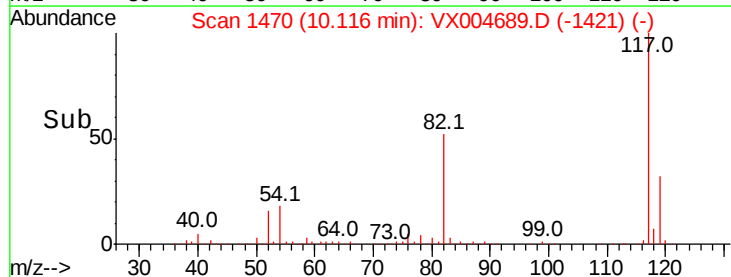
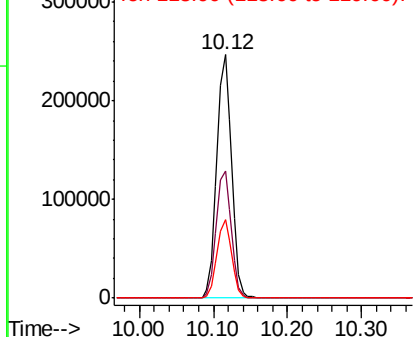


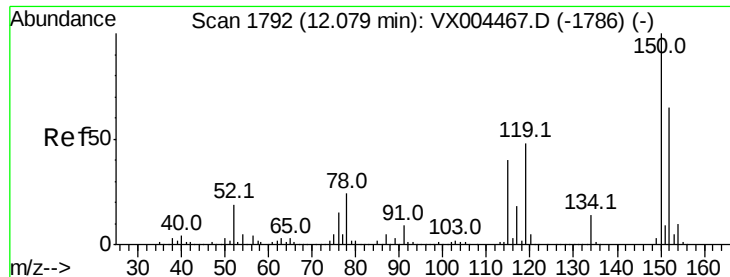
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Tgt Ion: 117 Resp: 337217
Ion Ratio Lower Upper
117 100
82 52.1 47.8 71.6
119 32.2 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



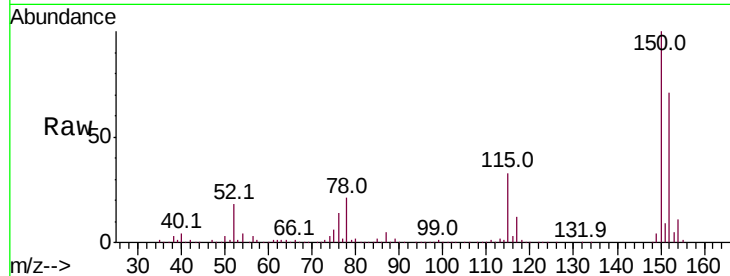


#72

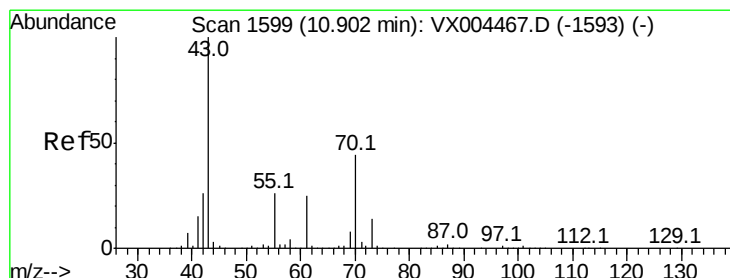
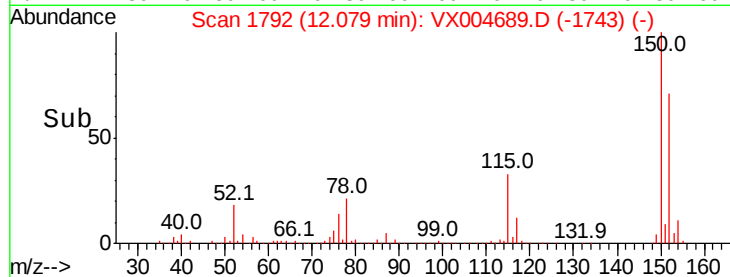
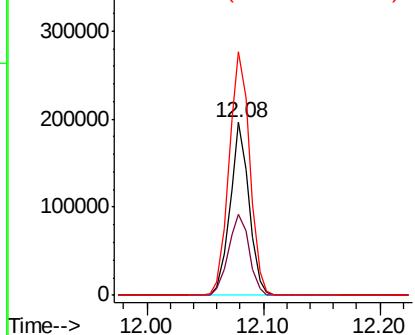
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 219950
Ion Ratio Lower Upper
152 100
115 51.5 39.0 117.0
150 154.5 0.0 351.0



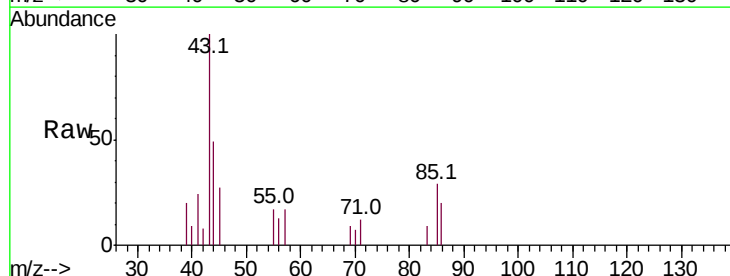
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



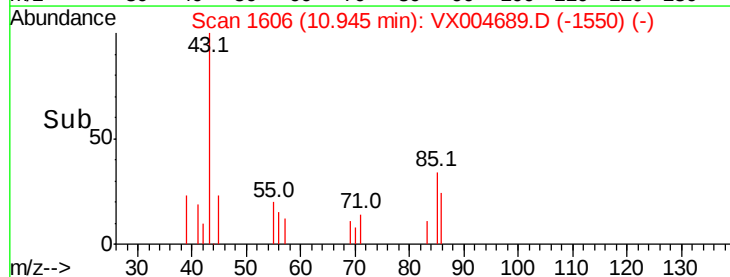
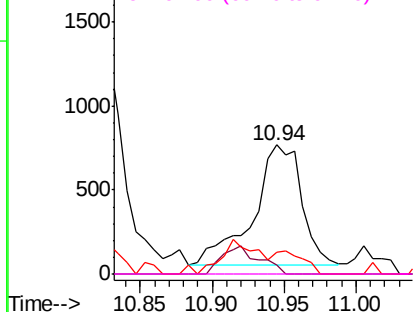
#74

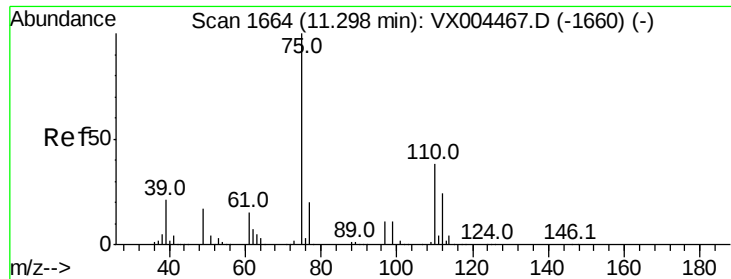
N-ethyl acetate
Concen: 0.274 ug/l
RT: 10.94 min Scan# 1606
Delta R.T. 0.04 min
Lab File: VX004689.D
Acq: 19 Sep 2018 06:02

Tgt Ion: 43 Resp: 1668
Ion Ratio Lower Upper
43 100
70 0.0 37.4 56.0#
55 0.0 21.8 32.8#
61 0.0 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 18.532 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Instrument :

MSVOA_X

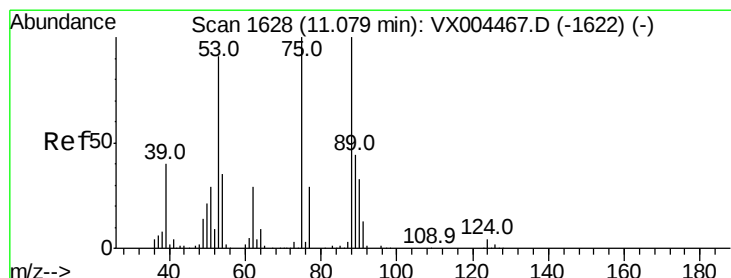
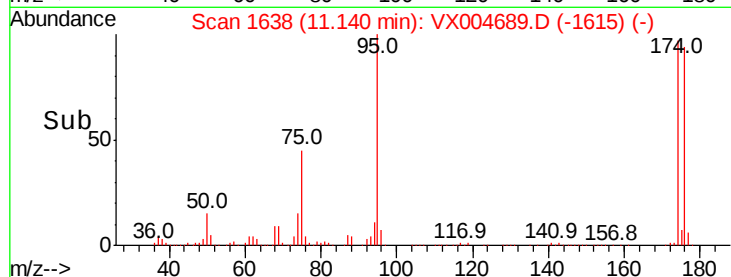
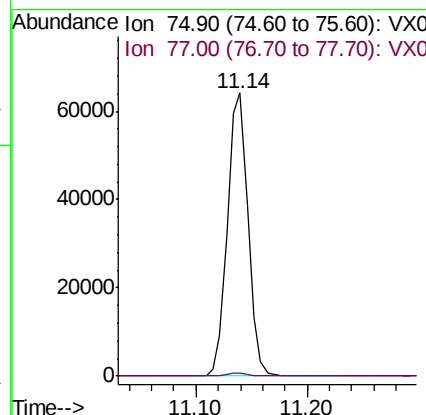
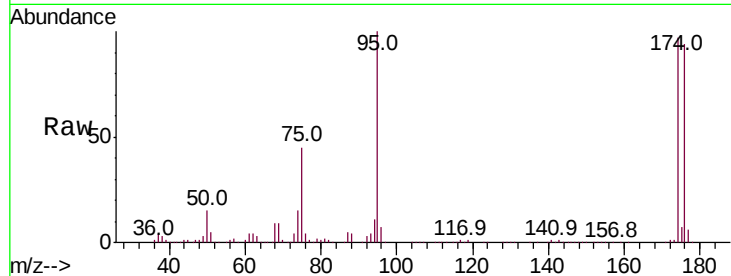
ClientSampleId :

Tot Ion: 75 Resp: 82007

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.070 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

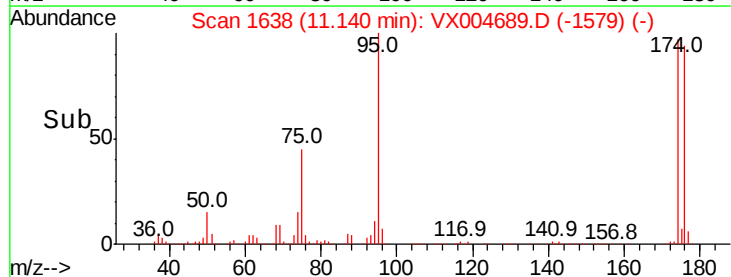
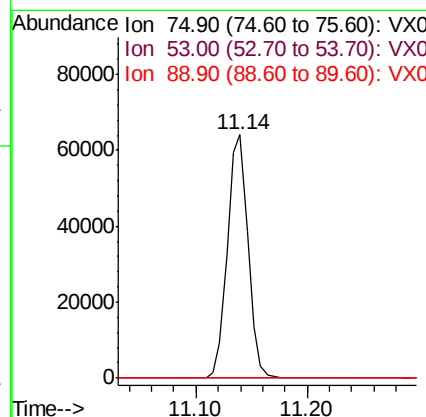
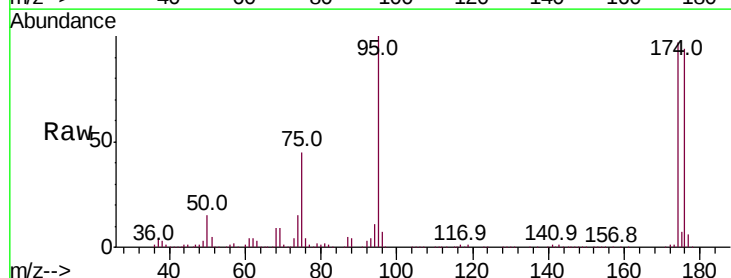
Tgt Ion: 75 Resp: 82007

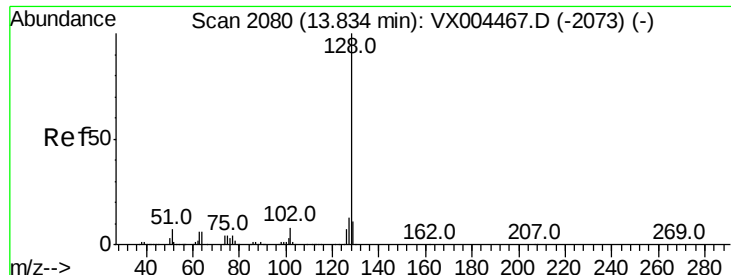
Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.531 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX004689.D

Acq: 19 Sep 2018 06:02

Instrument :

MSVOA_X

ClientSampleId :

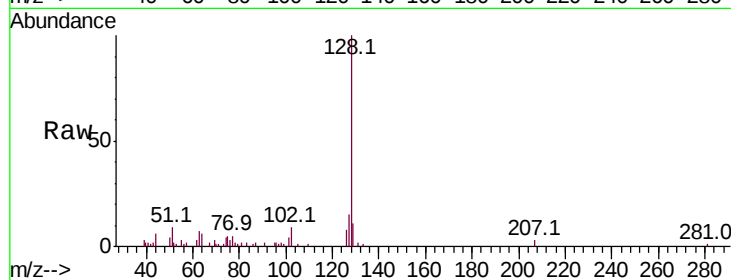
Tot Ion:128 Resp: 7980

Ion Ratio Lower Upper

128 100

127 14.9 10.2 15.2

129 11.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

