

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005031.D
 Acq On : 04 Oct 2018 20:56
 Operator : JC/MD
 Sample : J5207-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 05 03:24:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

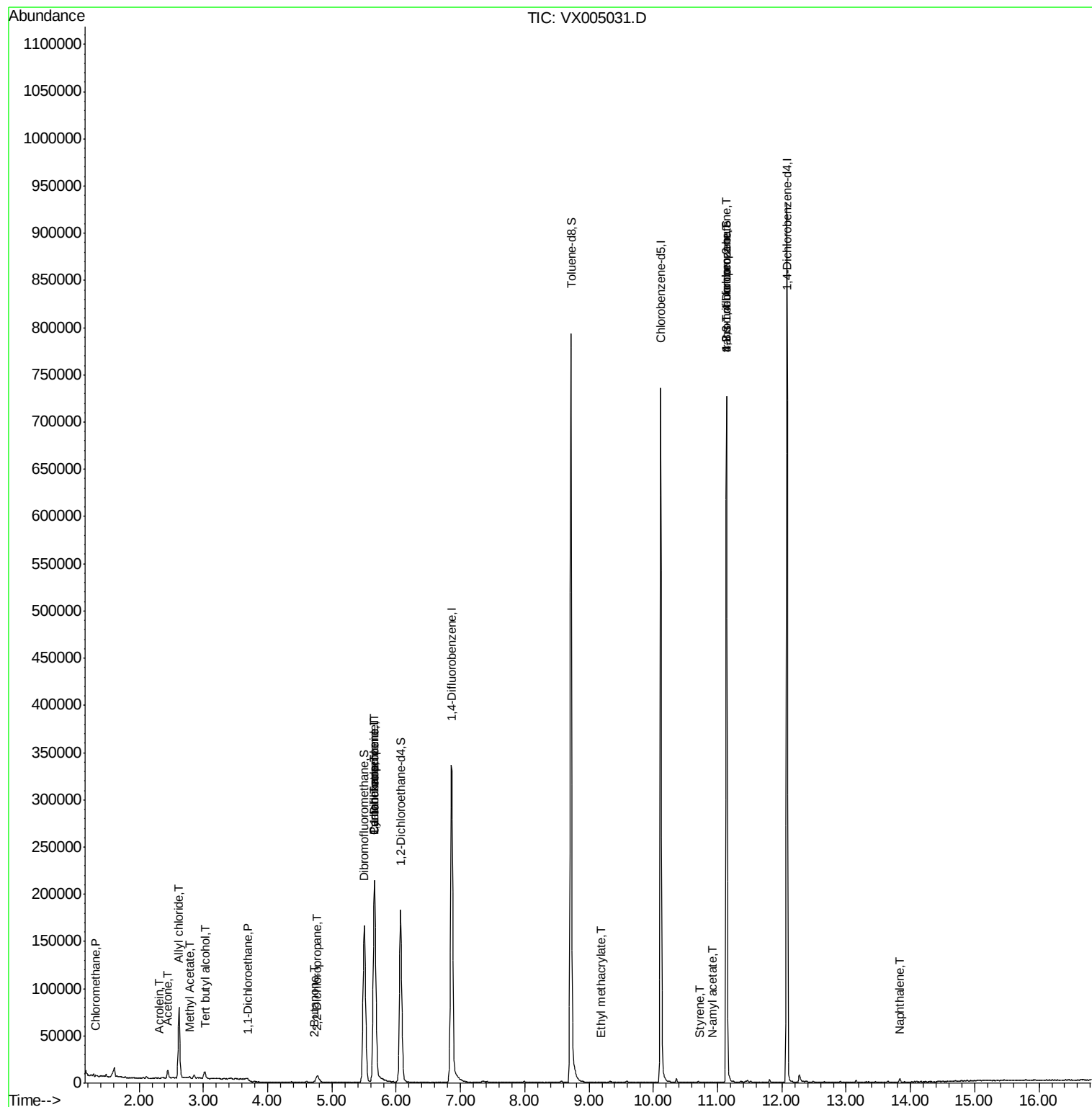
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	224980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	364830	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	352260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193755	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	172142	53.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.12%	
35) Dibromofluoromethane	5.50	113	141761	45.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.70%	
50) Toluene-d8	8.72	98	520611	50.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	11.14	95	186386	50.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.66%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	1101	0.296	ug/l	97
6) Chloroethane	1.73	64	225	Below Cal	#	69
11) Tert butyl alcohol	3.02	59	4792	5.333	ug/l #	77
13) Acrolein	2.31	56	238	0.372	ug/l	95
14) Allyl chloride	2.62	41	7713	1.450	ug/l #	61
16) Acetone	2.45	43	9393	5.006	ug/l	98
18) Methyl Acetate	2.78	43	1748	0.368	ug/l #	85
20) Methylene Chloride	2.85	84	1242	Below Cal		89
24) 1,1-Dichloroethane	3.69	63	1146	0.214	ug/l #	84
25) 2-Butanone	4.71	43	979	0.354	ug/l	98
26) 2,2-Dichloropropane	4.77	77	862	0.232	ug/l #	50
31) Cyclohexane	5.67	56	3775	0.923	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15380	3.646	ug/l #	42
38) Carbon Tetrachloride	5.67	117	20700	4.668	ug/l #	17
56) Ethyl methacrylate	9.18	69	23	2.866	ug/l #	1
70) Styrene	10.73	104	85	2.149	ug/l #	81
74) N-amyl acetate	10.91	43	119	1.765	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	91720	21.120	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	373	Below Cal		98
81) trans-1,4-Dichloro-2-buten	11.14	75	91720	57.301	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1129	Below Cal		94
95) Naphthalene	13.83	128	2268	0.858	ug/l #	95

(#) = 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. 0.01 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

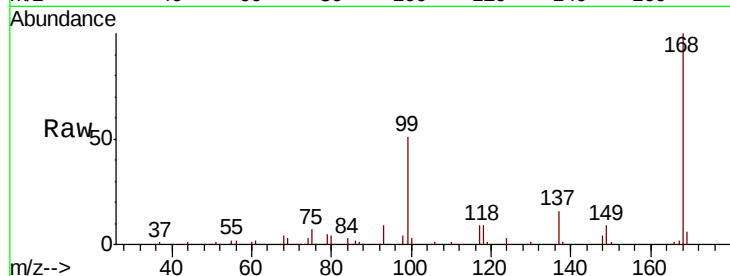
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 224980

Ion Ratio Lower Upper

168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

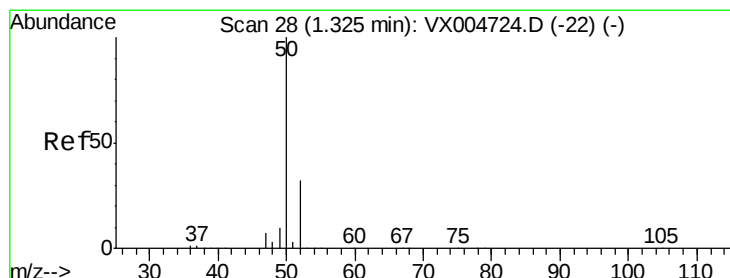
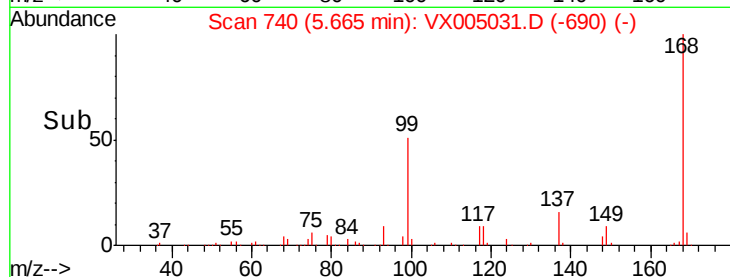
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.296 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005031.D

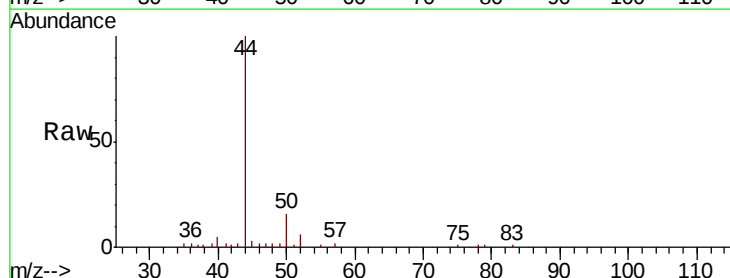
Acq: 04 Oct 2018 20:56

Tgt Ion: 50 Resp: 1101

Ion Ratio Lower Upper

50 100

52 33.6 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

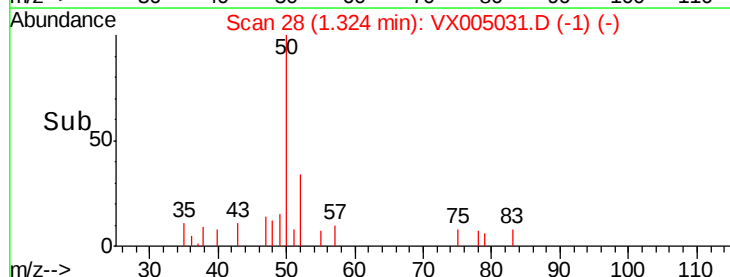
600

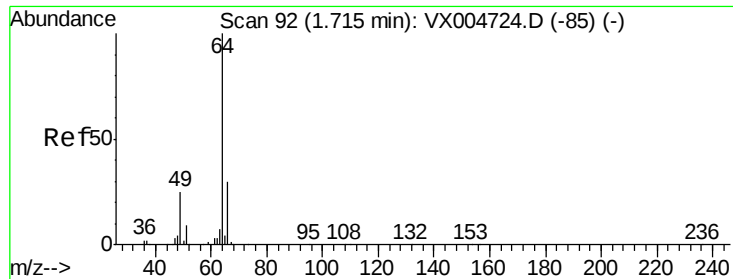
400

200

0

Time--> 1.30 1.35





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

Instrument :

MSVOA_X

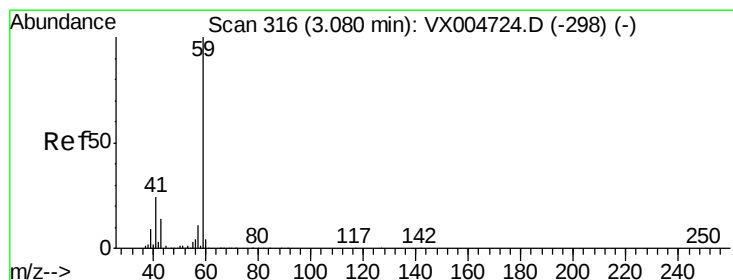
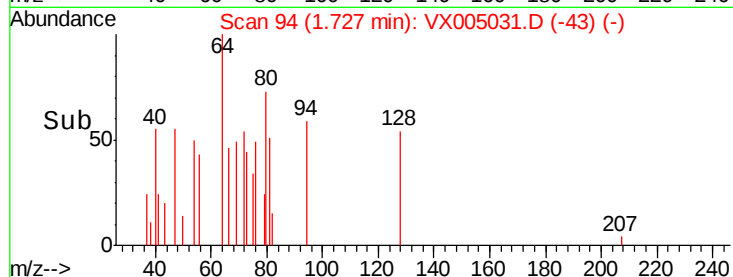
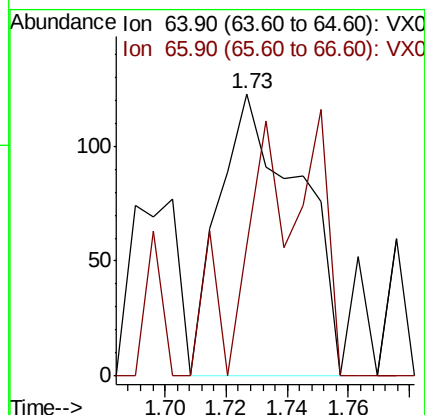
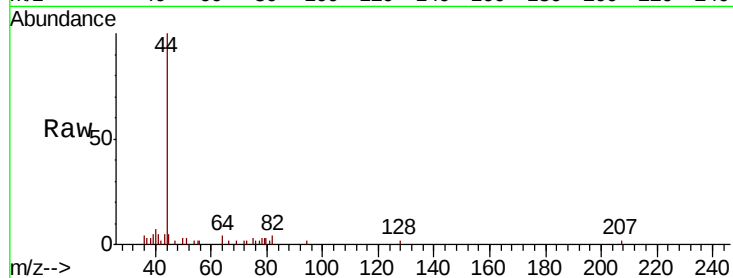
ClientSampled :

Tot Ion: 64 Resp: 225

Ion Ratio Lower Upper

64 100

66 46.3 23.8 35.6#



#11

Tert butyl alcohol

Concen: 5.333 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005031.D

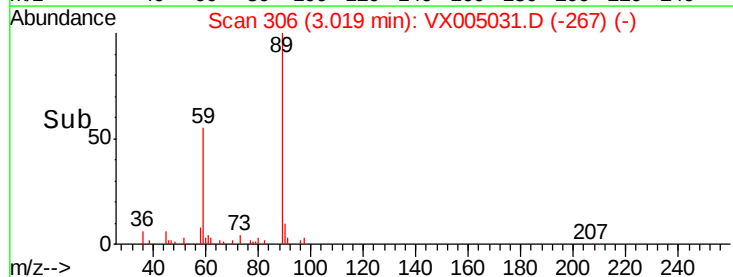
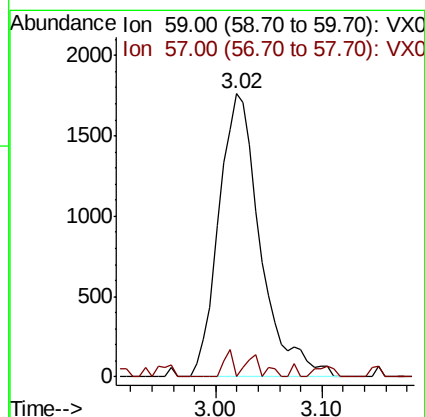
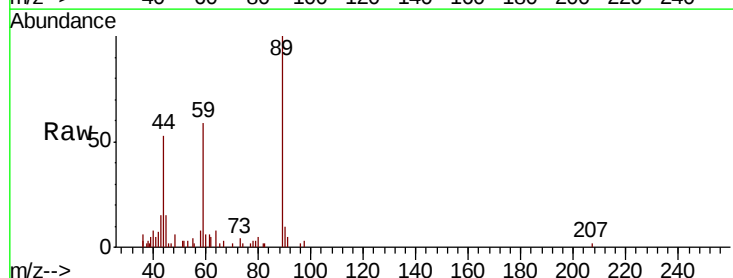
Acq: 04 Oct 2018 20:56

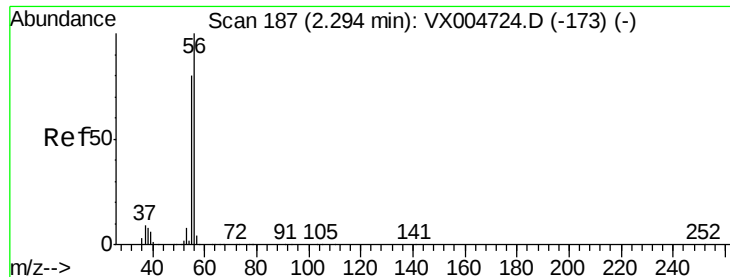
Tgt Ion: 59 Resp: 4792

Ion Ratio Lower Upper

59 100

57 2.0 8.6 12.8#





#13

Acrolein

Concen: 0.372 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

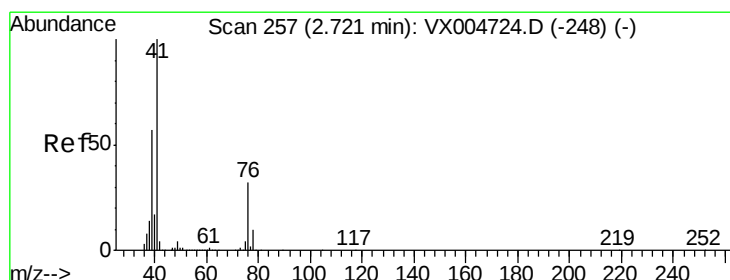
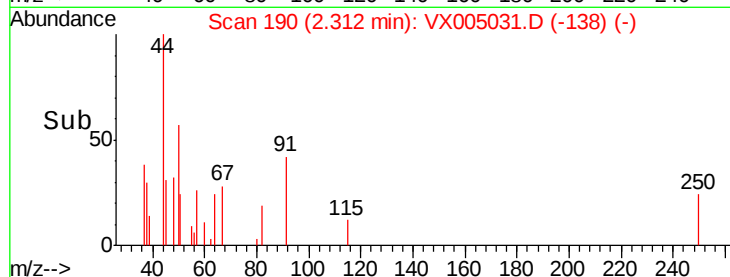
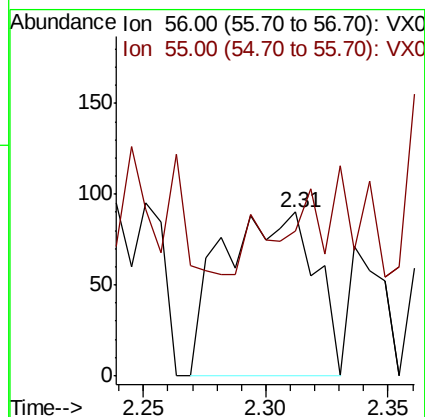
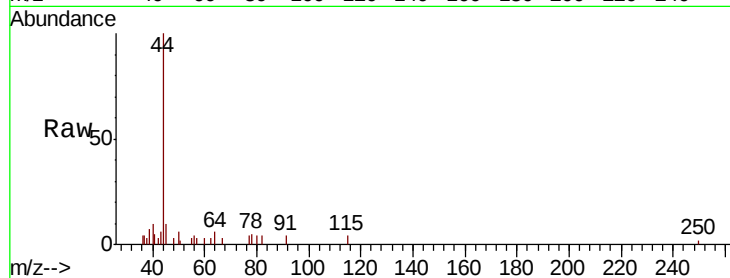
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 238

Ion Ratio Lower Upper

56 100

55 74.8 63.4 95.2



#14

Allyl chloride

Concen: 1.450 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

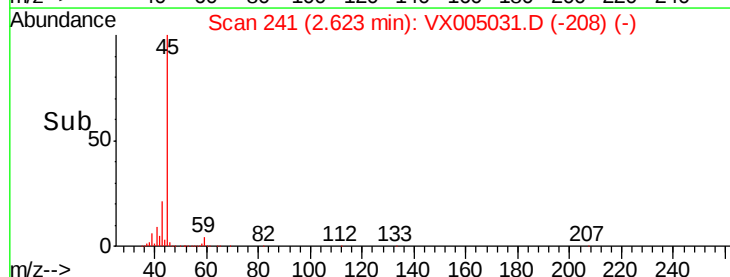
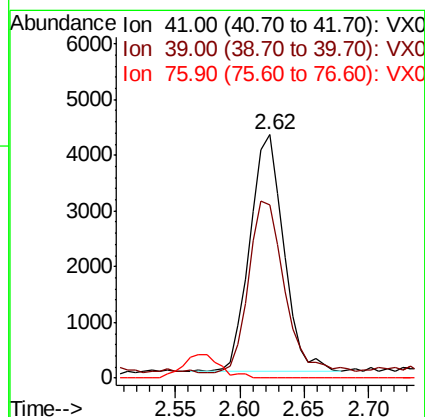
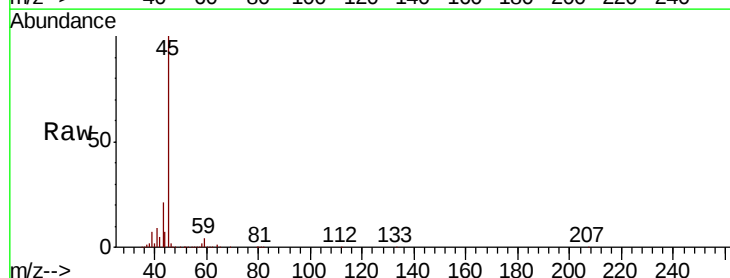
Tgt Ion: 41 Resp: 7713

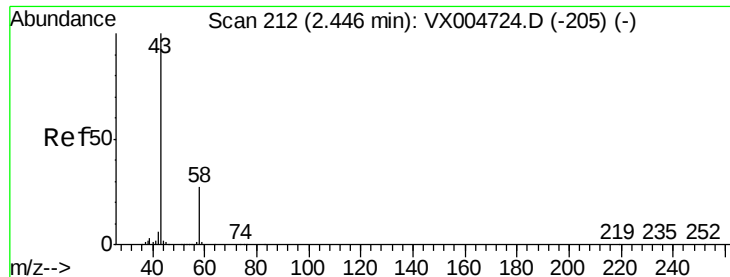
Ion Ratio Lower Upper

41 100

39 76.3 44.1 66.1#

76 0.0 25.0 37.4#





#16

Acetone

Concen: 5.006 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

Instrument :

MSVOA_X

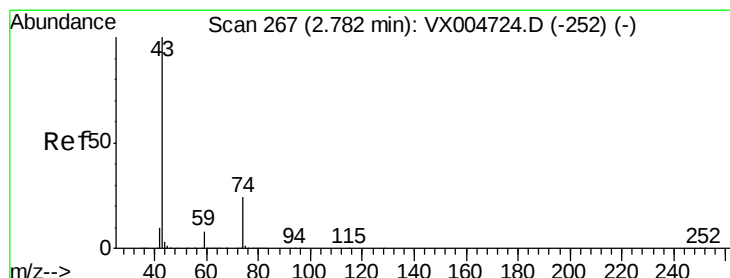
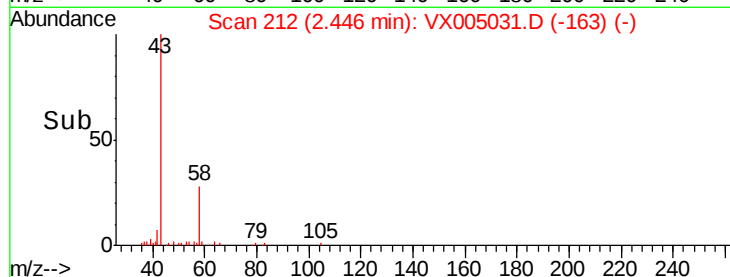
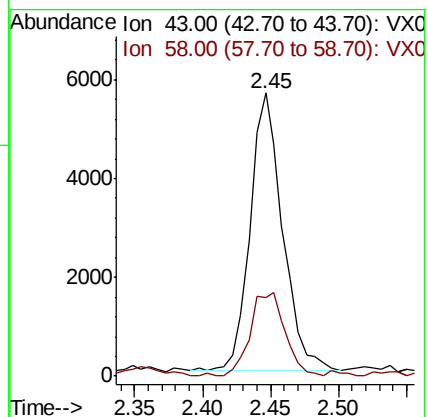
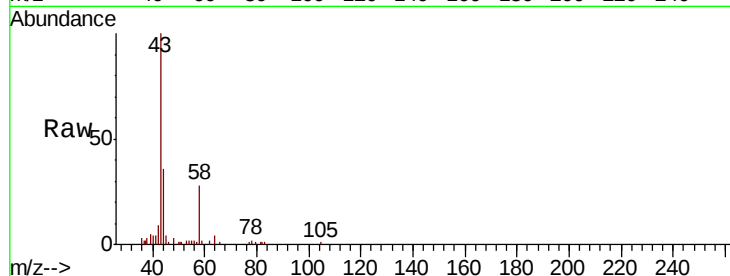
ClientSampleId :

Tot Ion: 43 Resp: 9393

Ion Ratio Lower Upper

43 100

58 28.5 21.8 32.6



#18

Methyl Acetate

Concen: 0.368 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005031.D

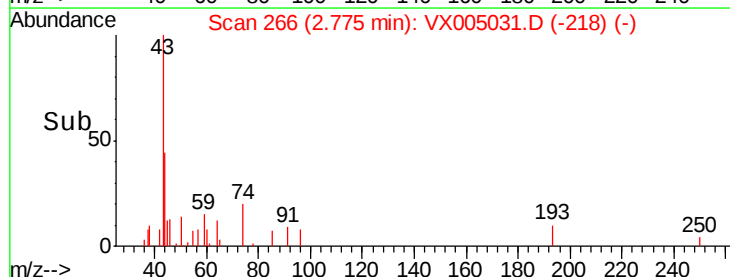
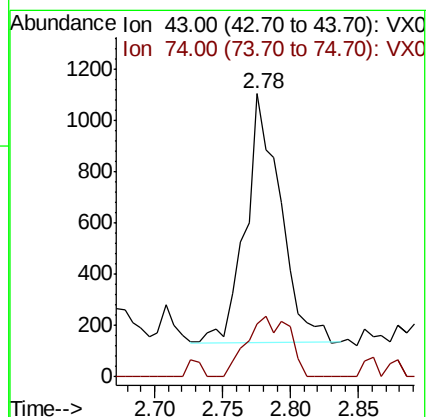
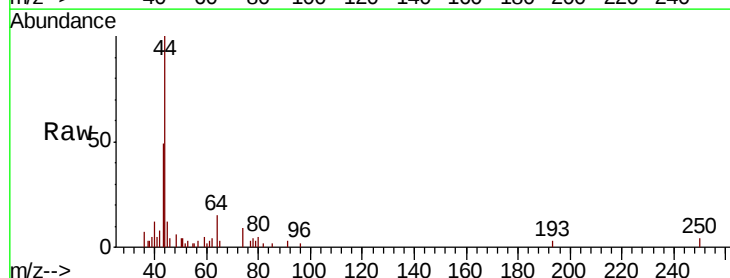
Acq: 04 Oct 2018 20:56

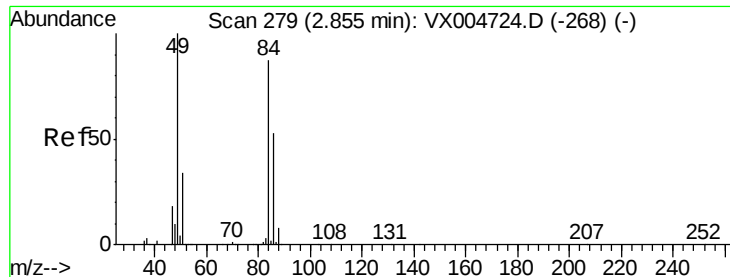
Tgt Ion: 43 Resp: 1748

Ion Ratio Lower Upper

43 100

74 29.5 17.8 26.8#



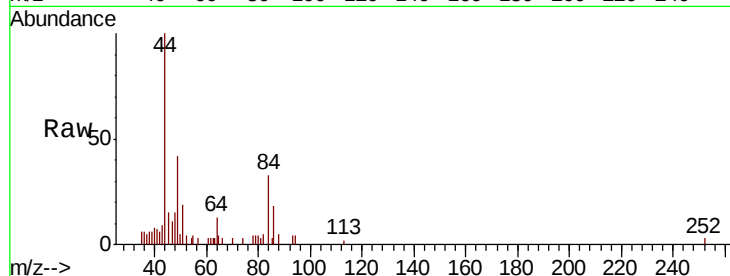


#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

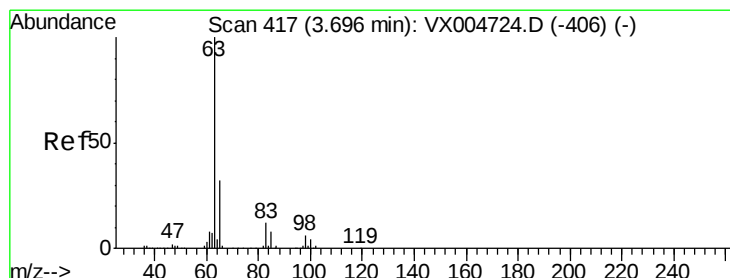
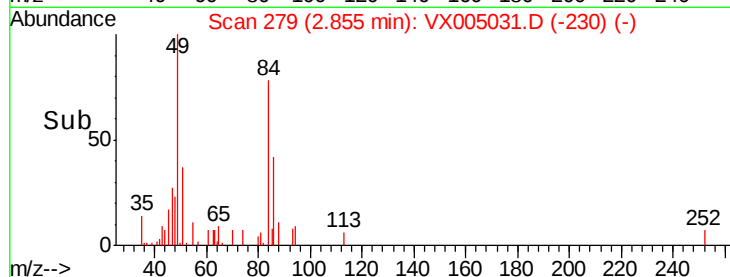
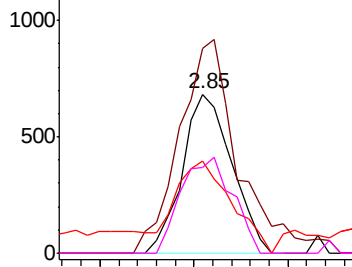
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 1242

Ion	Ratio	Lower	Upper
84	100		
49	128.8	92.3	138.5
51	46.0	31.8	47.6
86	53.9	48.5	72.7



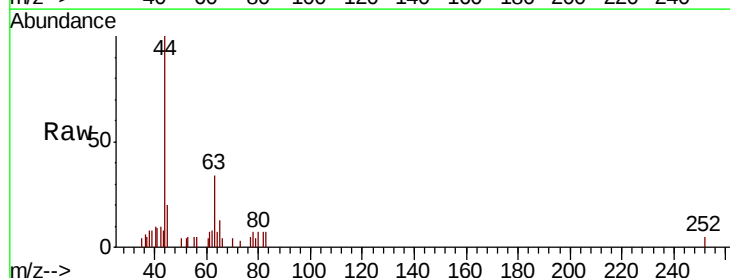
Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0



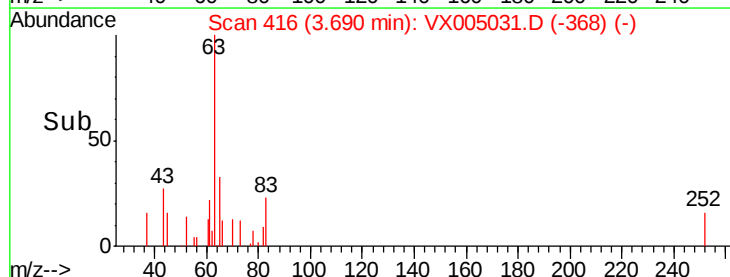
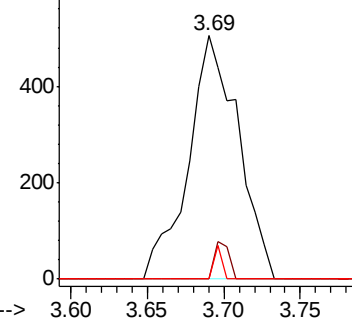
#24
1,1-Dichloroethane
Concen: 0.214 ug/l
RT: 3.69 min Scan# 416
Delta R.T. -0.01 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

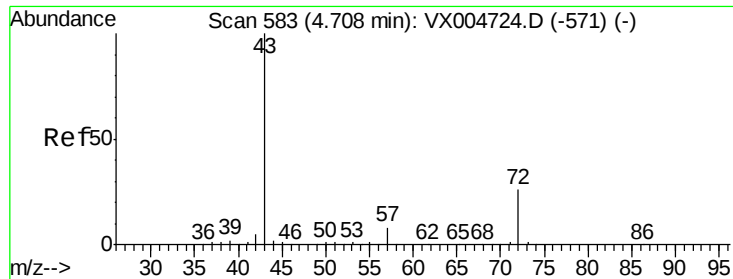
Tgt Ion: 63 Resp: 1146

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.0	9.2#
100	0.0	2.0	5.8#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0

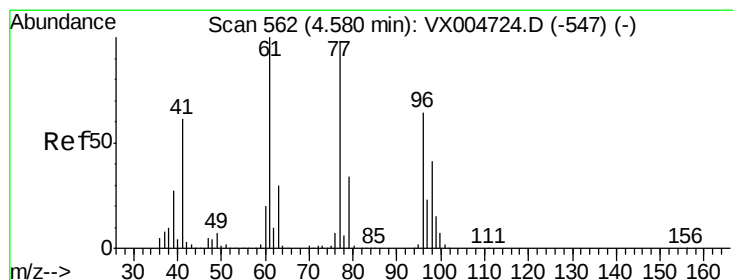
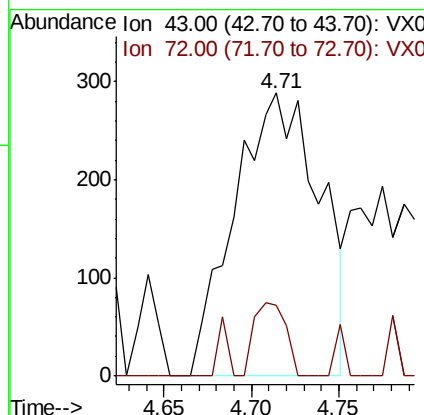
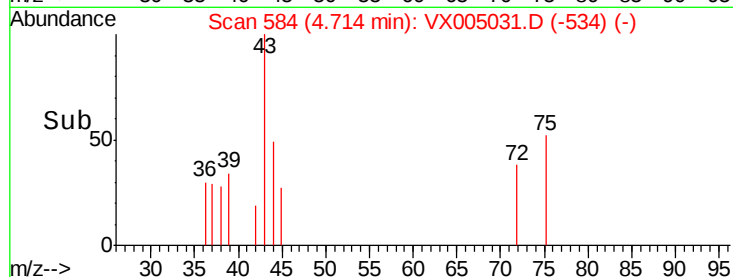
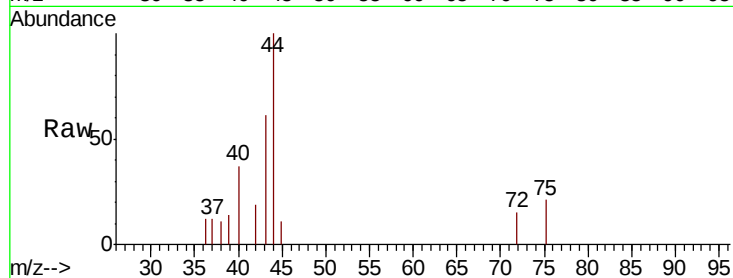




#25
 2-Butanone
 Concen: 0.354 ug/l
 RT: 4.71 min Scan# 584
 Delta R.T. 0.01 min
 Lab File: VX005031.D
 Acq: 04 Oct 2018 20:56

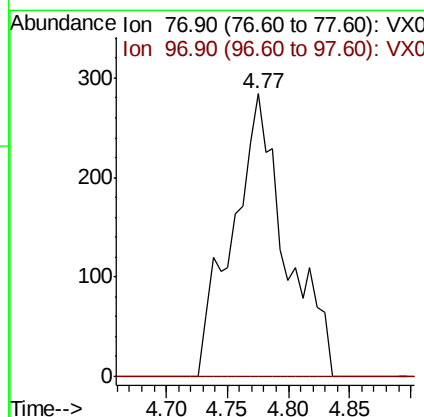
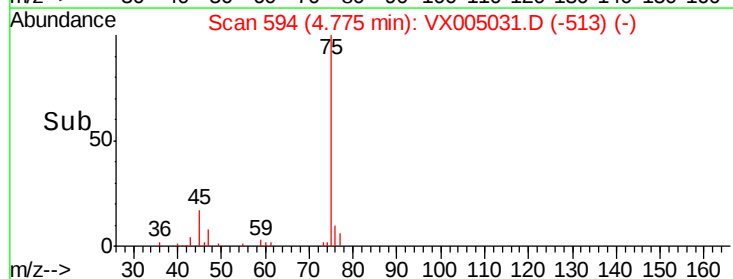
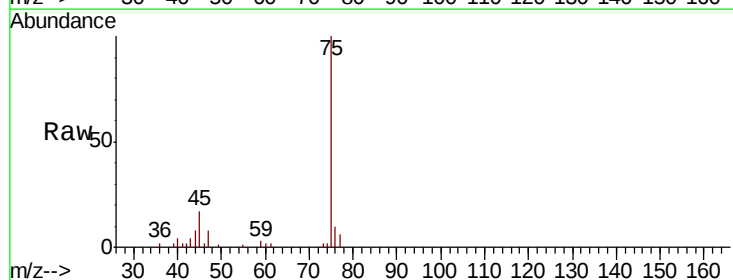
Instrument :
 MSVOA_X
 ClientSampleId :

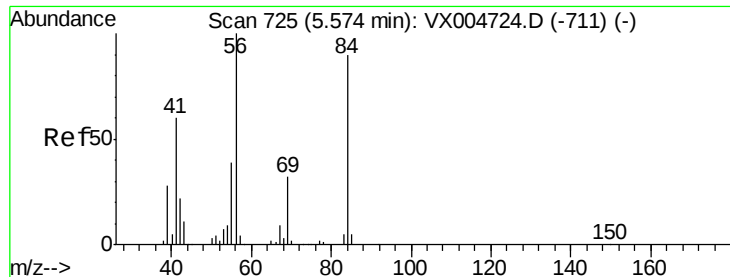
Tot Ion: 43 Resp: 979
 Ion Ratio Lower Upper
 43 100
 72 25.0 20.8 31.2



#26
 2,2-Dichloropropane
 Concen: 0.232 ug/l
 RT: 4.77 min Scan# 594
 Delta R.T. 0.19 min
 Lab File: VX005031.D
 Acq: 04 Oct 2018 20:56

Tgt Ion: 77 Resp: 862
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.6 37.8#

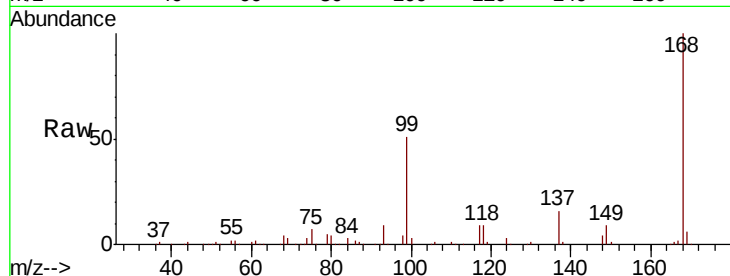




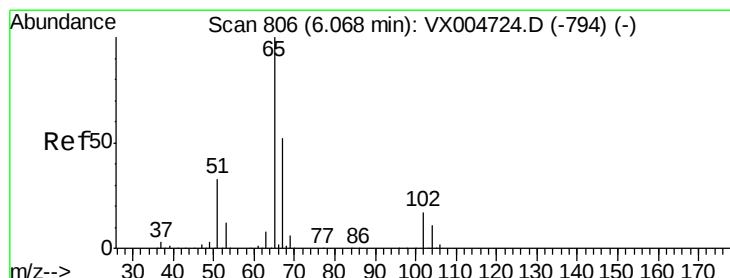
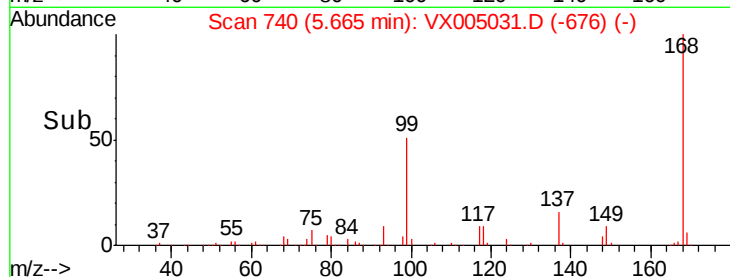
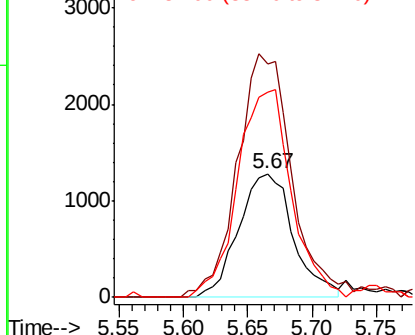
#31
Cyclohexane
Concen: 0.923 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 3775
Ion Ratio Lower Upper
56 100
69 183.6 25.9 38.9#
84 165.7 71.9 107.9#

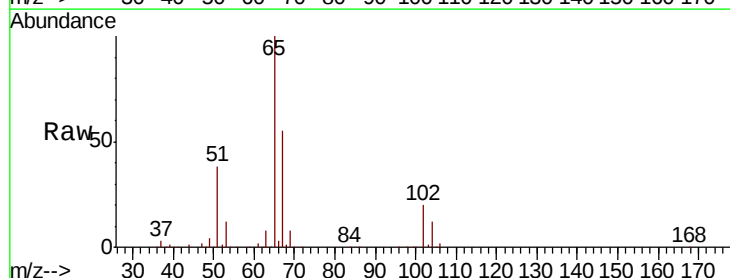


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

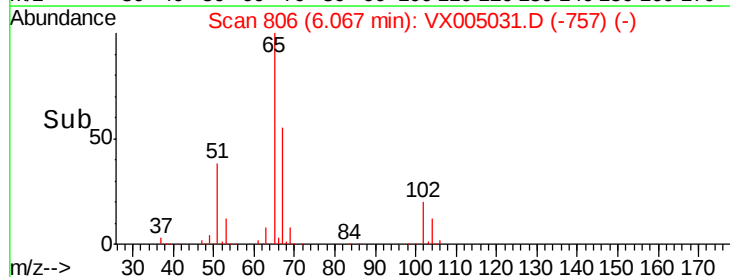
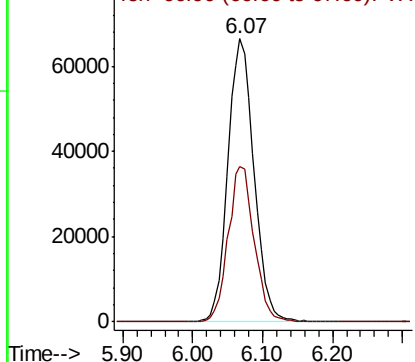


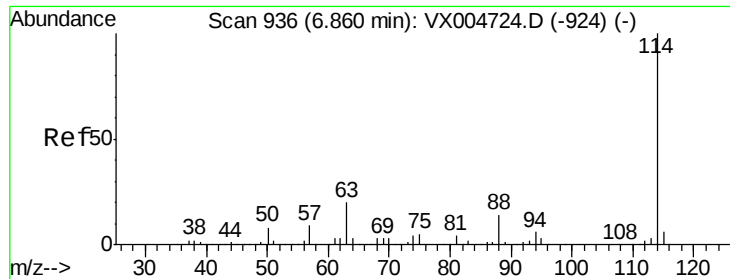
#33
1,2-Dichloroethane-d4
Concen: 53.563 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

Tgt Ion: 65 Resp: 172142
Ion Ratio Lower Upper
65 100
67 54.7 0.0 107.4



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

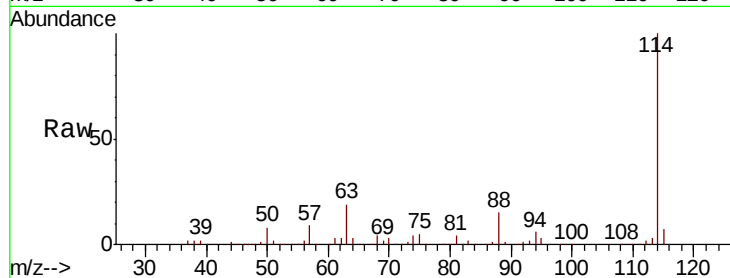




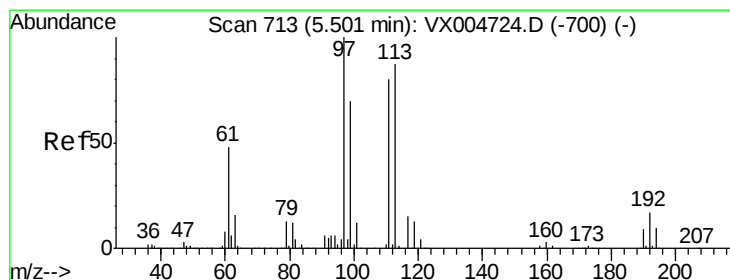
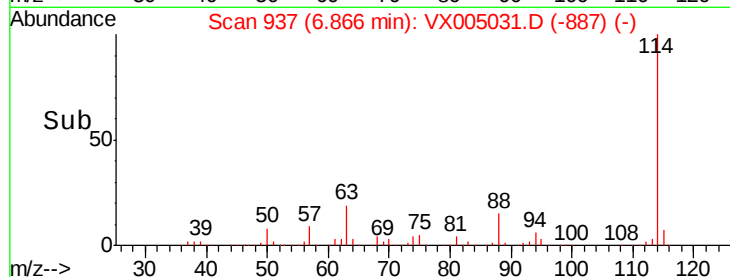
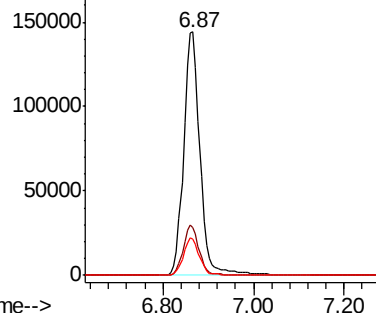
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005031.D
 Acq: 04 Oct 2018 20:56

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 364830
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.1 0.0 27.0

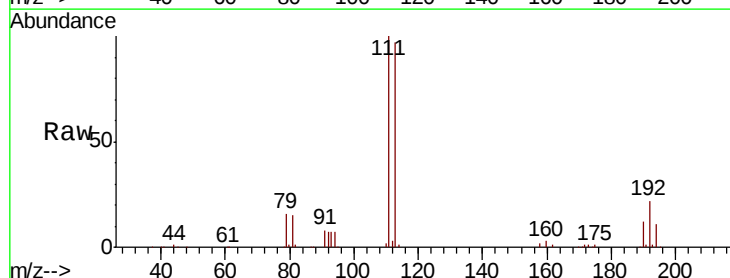


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

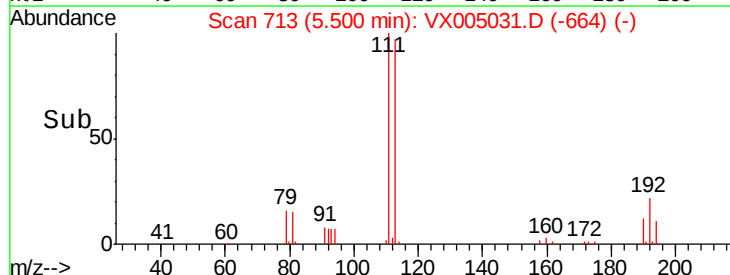
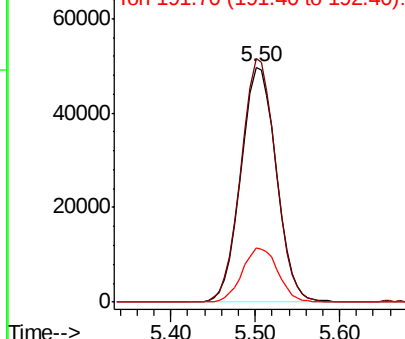


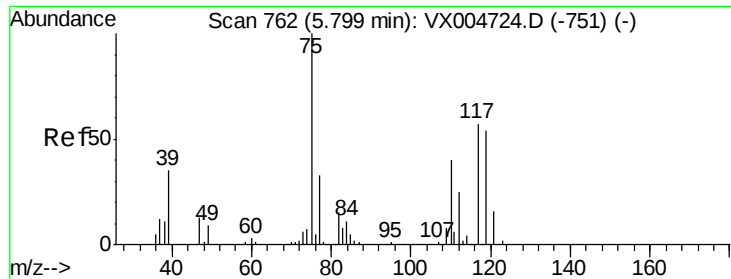
#35
 Dibromofluoromethane
 Concen: 45.848 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005031.D
 Acq: 04 Oct 2018 20:56

Tgt Ion:113 Resp: 141761
 Ion Ratio Lower Upper
 113 100
 111 102.3 77.0 115.4
 192 23.3 17.0 25.6



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: 3.646 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

Instrument :

MSVOA_X

ClientSampleId :

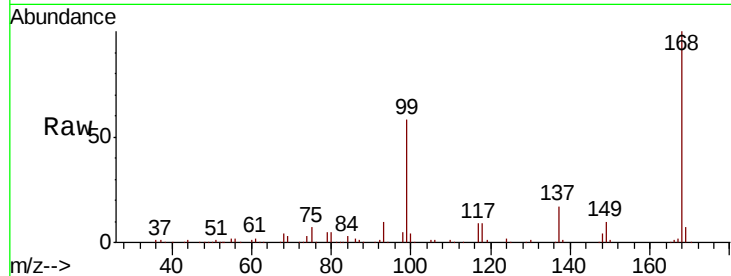
Tot Ion: 75 Resp: 15380

Ion Ratio Lower Upper

75 100

110 5.0 20.0 59.9#

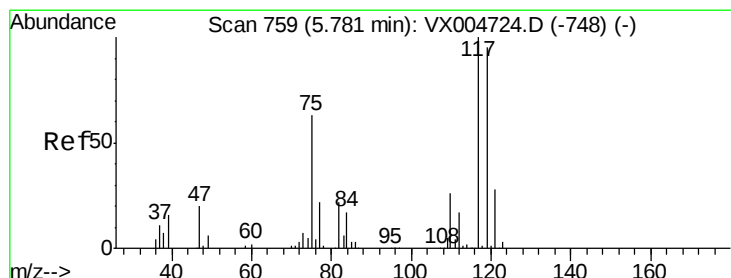
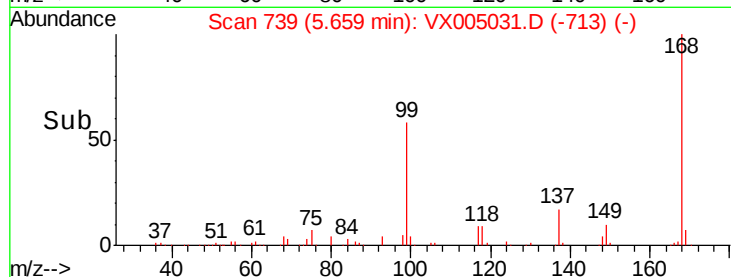
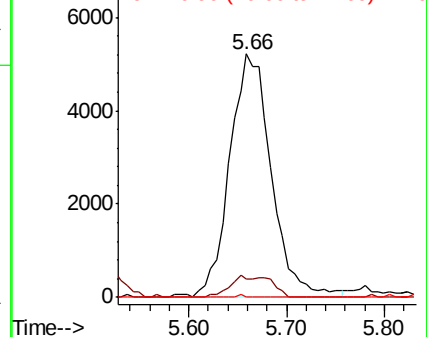
77 0.1 27.1 40.7#



Abundance Ion 74.90 (74.60 to 75.60): VX004724.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX004724.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX004724.D (-751) (-)



#38

Carbon Tetrachloride

Concen: 4.668 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

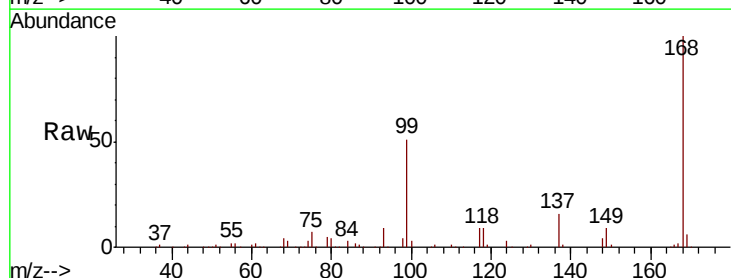
Tgt Ion: 117 Resp: 20700

Ion Ratio Lower Upper

117 100

119 5.7 75.2 112.8#

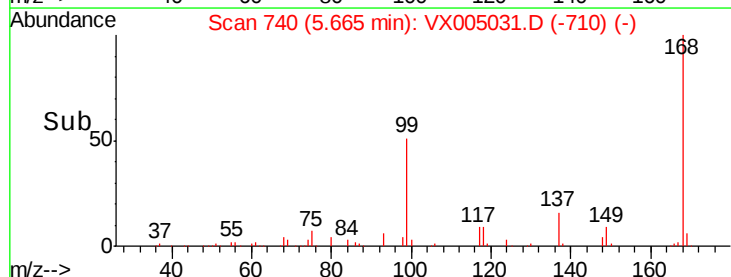
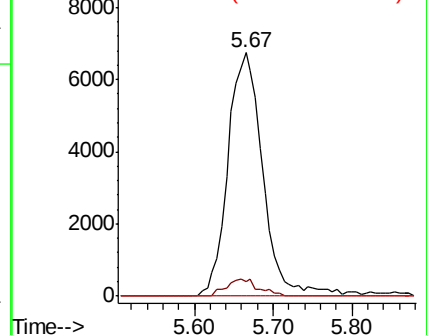
121 0.0 22.5 33.7#

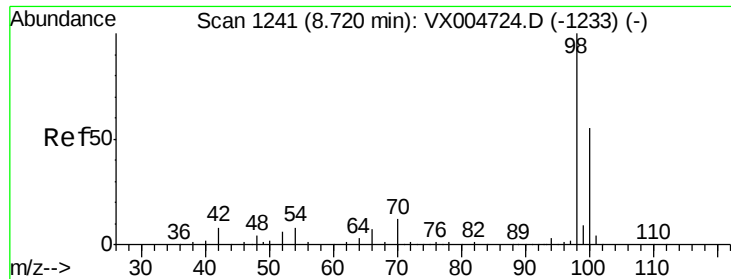


Abundance Ion 116.80 (116.50 to 117.50): VX004724.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX004724.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX004724.D (-748) (-)

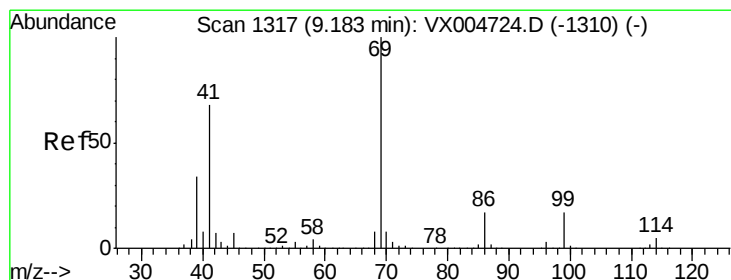
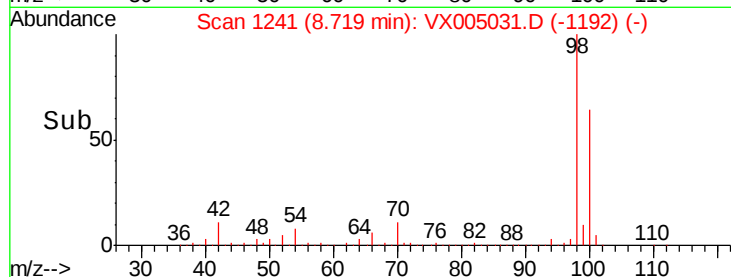
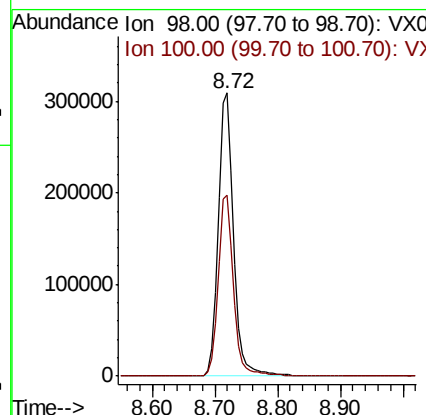
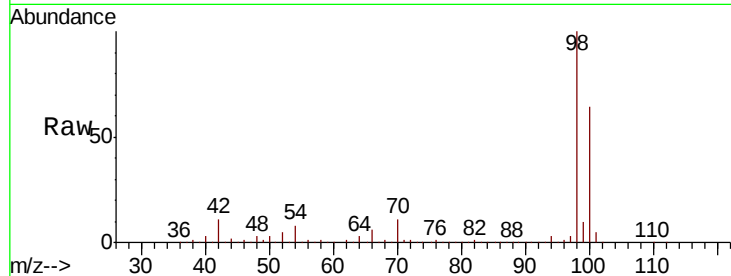




#50
Toluene-d8
Concen: 50.647 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

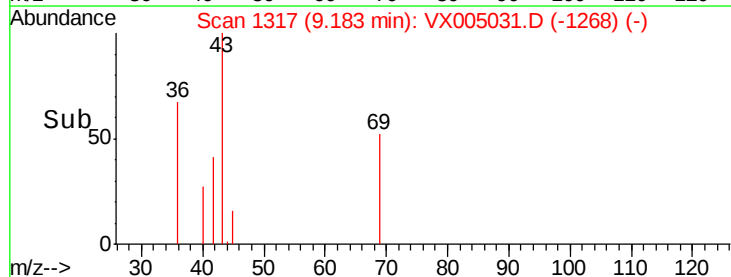
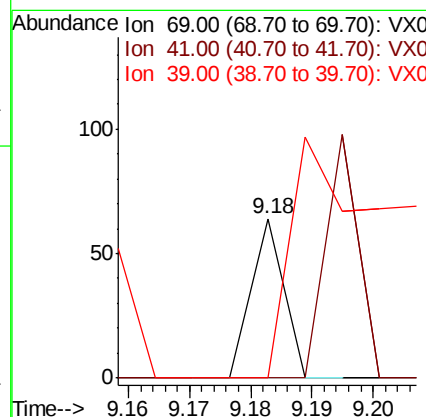
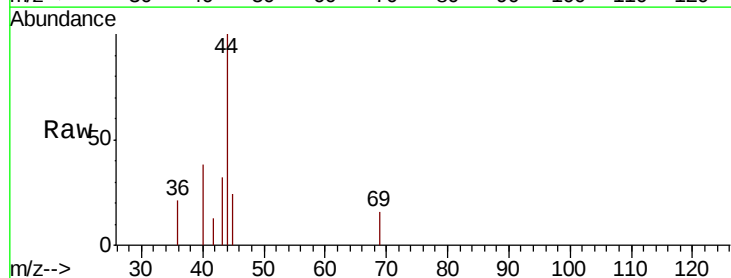
Instrument :
MSVOA_X
ClientSampled :

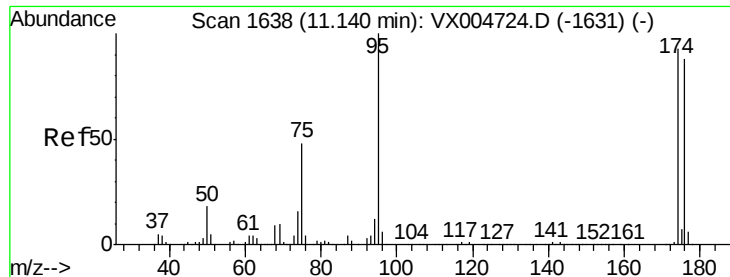
Tot Ion: 98 Resp: 520611
Ion Ratio Lower Upper
98 100
100 63.9 51.9 77.9



#56
Ethyl methacrylate
Concen: 2.866 ug/l
RT: 9.18 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

Tgt Ion: 69 Resp: 23
Ion Ratio Lower Upper
69 100
41 156.5 56.9 85.3#
39 369.6 28.4 42.6#





#62

4-Bromofluorobenzene

Concen: 50.332 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005031.D

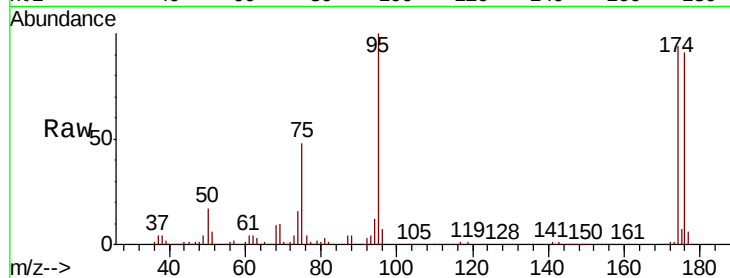
Acq: 04 Oct 2018 20:56

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	95	Resp:	186386
Ion	Ratio	Lower	Upper
95	100		
174	92.3	0.0	185.0
176	88.9	0.0	180.2



Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004724.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004724.D (-1631) (-)

11.14

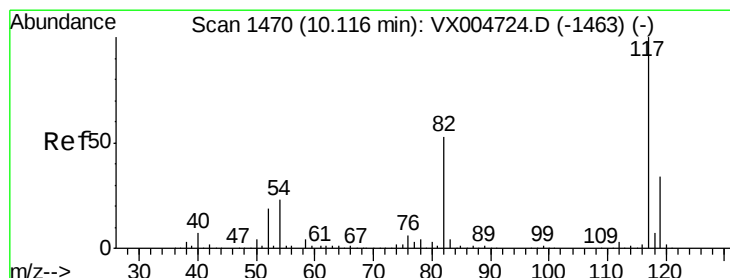
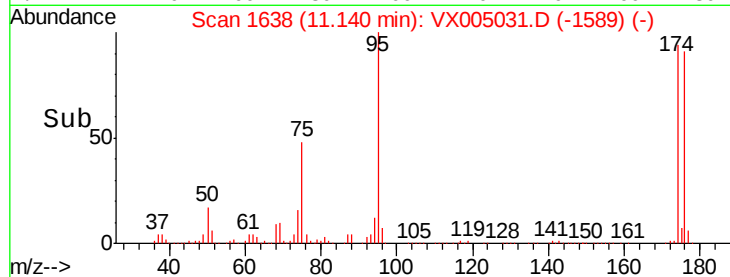
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

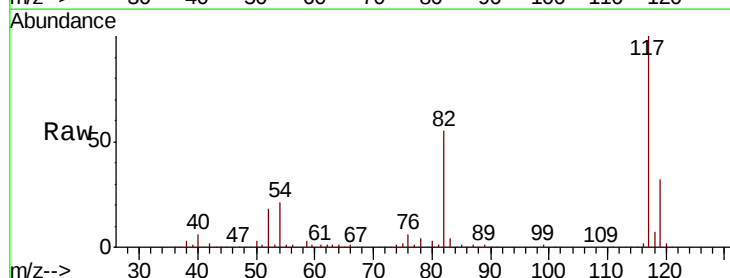
RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

Tgt Ion:	117	Resp:	352260
Ion	Ratio	Lower	Upper
117	100		
82	55.0	42.2	63.4
119	32.1	27.4	41.0



Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004724.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004724.D (-1463) (-)

10.12

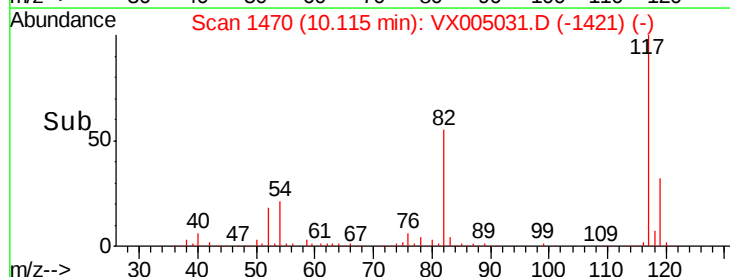
300000

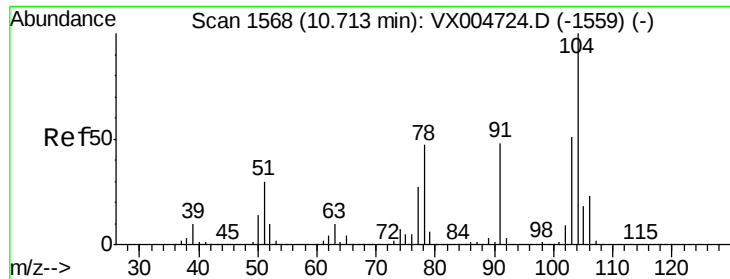
200000

100000

0

Time-->

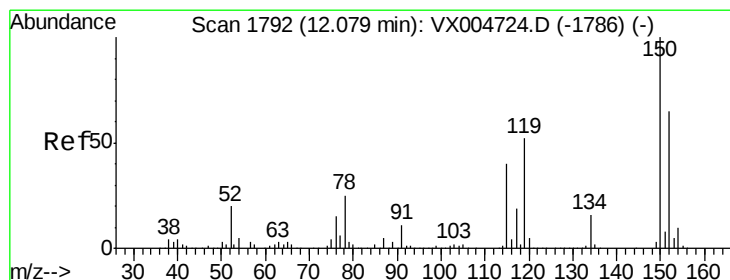
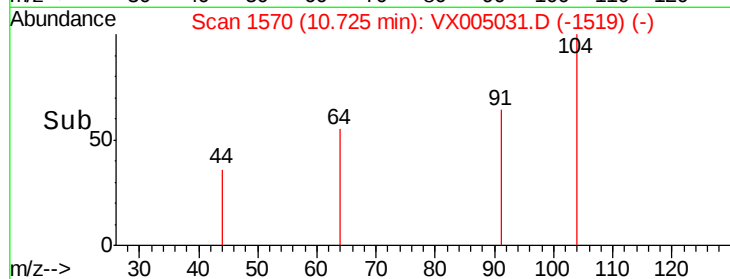
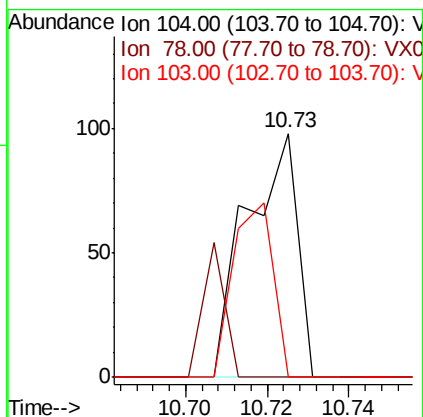
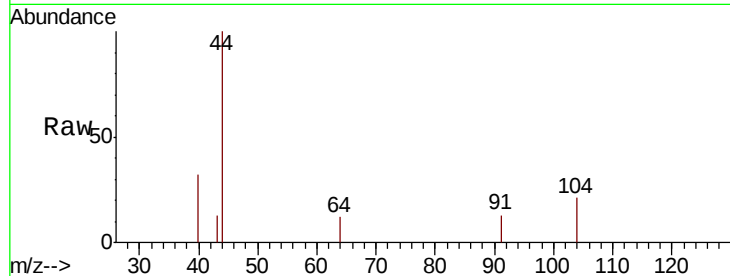




#70
Stvrene
Concen: 2.149 ug/l
RT: 10.73 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

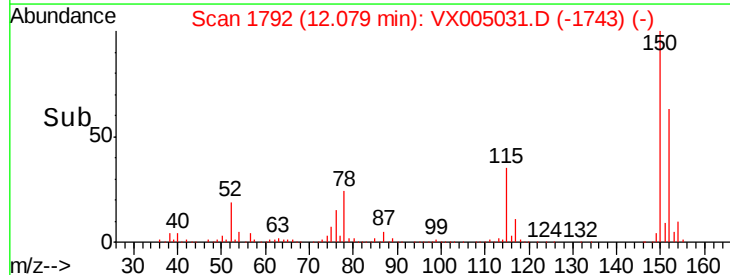
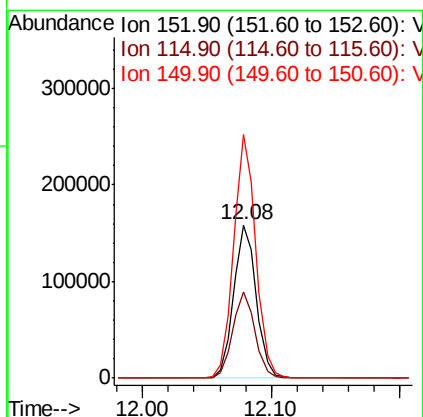
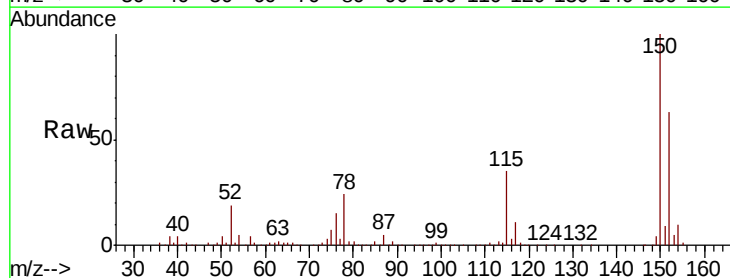
Instrument :
MSVOA_X
ClientSampleId :

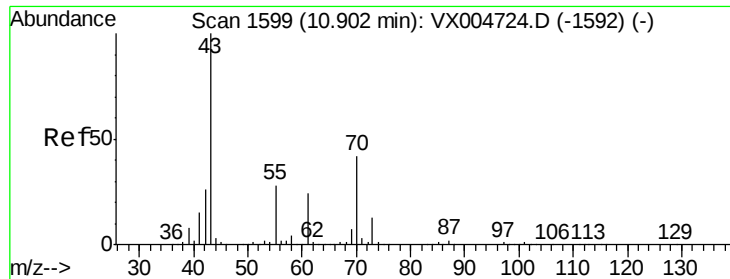
Tot Ion:104 Resp: 85
Ion Ratio Lower Upper
104 100
78 23.5 40.0 60.0#
103 56.5 44.3 66.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

Tgt Ion:152 Resp: 193755
Ion Ratio Lower Upper
152 100
115 55.2 40.2 120.6
150 155.9 0.0 351.0





#74

N-amvl acetate

Concen: 1.765 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005031.D

Acq: 04 Oct 2018 20:56

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 119

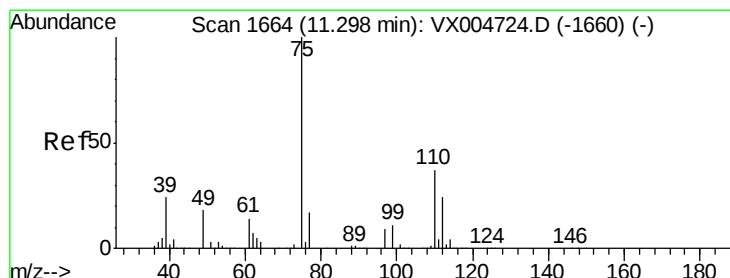
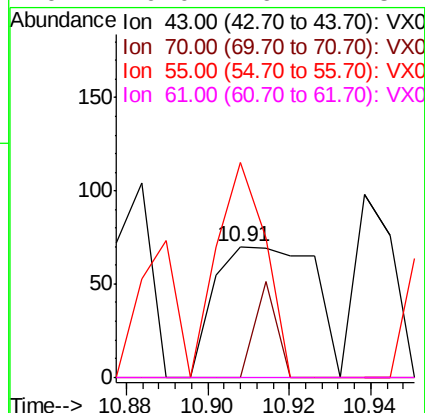
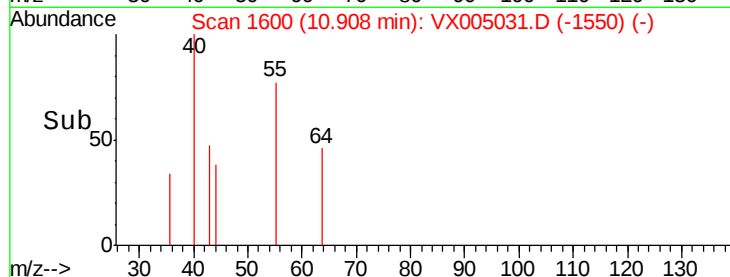
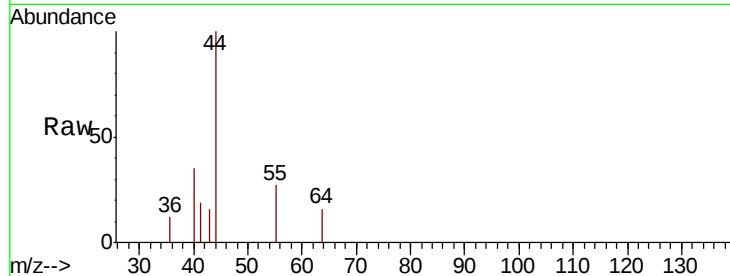
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 79.8 21.6 32.4#

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 21.120 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005031.D

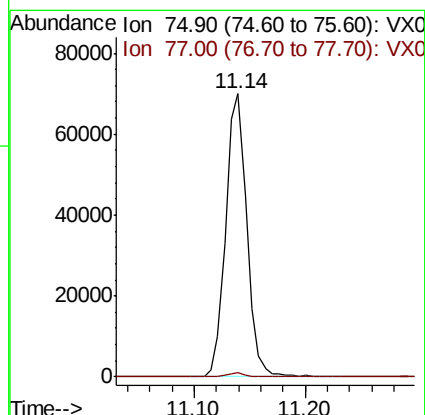
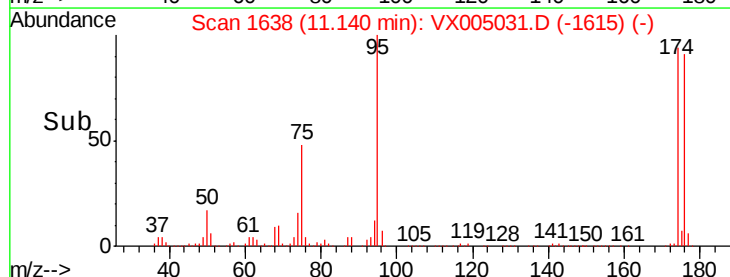
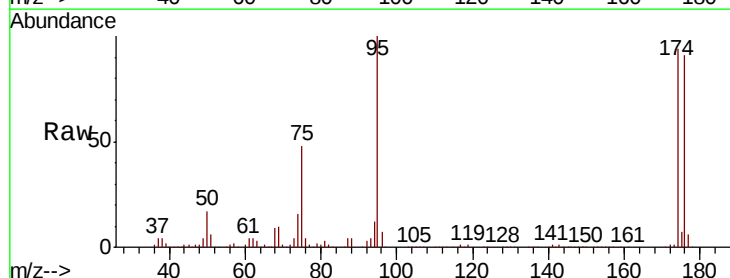
Acq: 04 Oct 2018 20:56

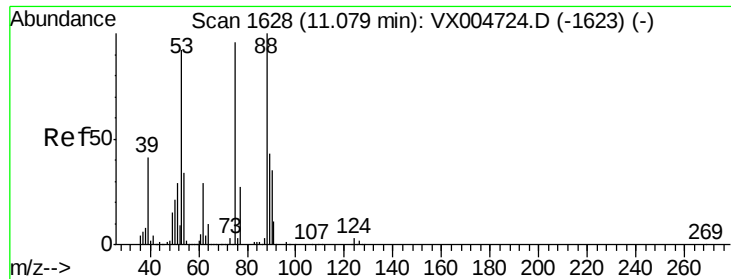
Tgt Ion: 75 Resp: 91720

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#

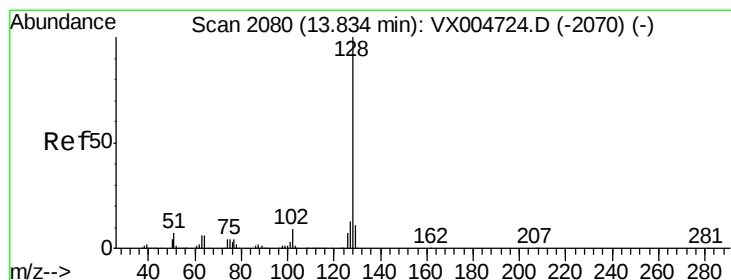
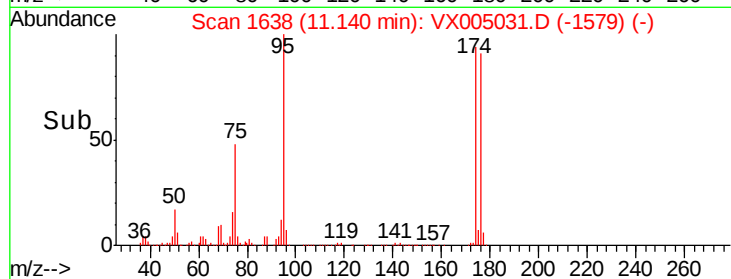
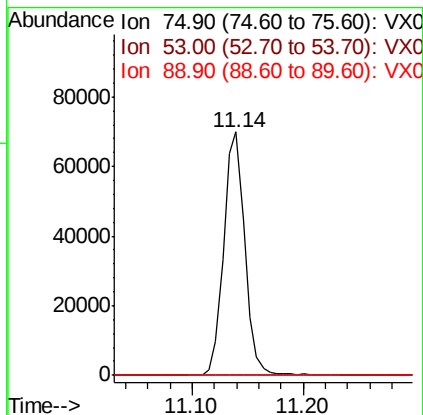
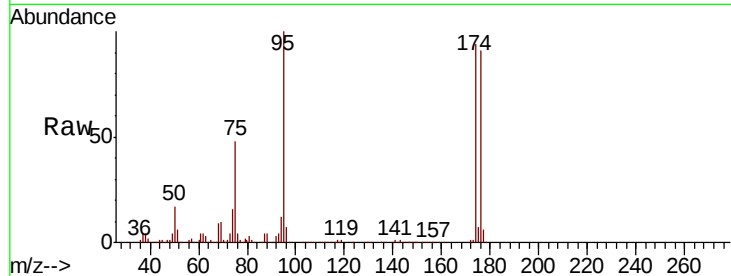




#81
trans-1,4-Dichloro-2-butene
Concen: 57.301 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 91720
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.858 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005031.D
Acq: 04 Oct 2018 20:56

Tgt Ion: 128 Resp: 2268
Ion Ratio Lower Upper
128 100
127 14.4 10.4 15.6
129 13.6 8.7 13.1#

