

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002309.D
 Acq On : 05 Jun 2018 16:51
 Operator : JC/MD
 Sample : J3268-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4TB07-180529

Quant Time: Jun 06 04:32:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	219077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	314416	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	284765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	162484	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	151347	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
35) Dibromofluoromethane	5.51	113	109750	44.39	ug/l	0.00
Spiked Amount			Recovery	=	88.78%	
50) Toluene-d8	8.72	98	450504	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
62) 4-Bromofluorobenzene	11.14	95	157952	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	

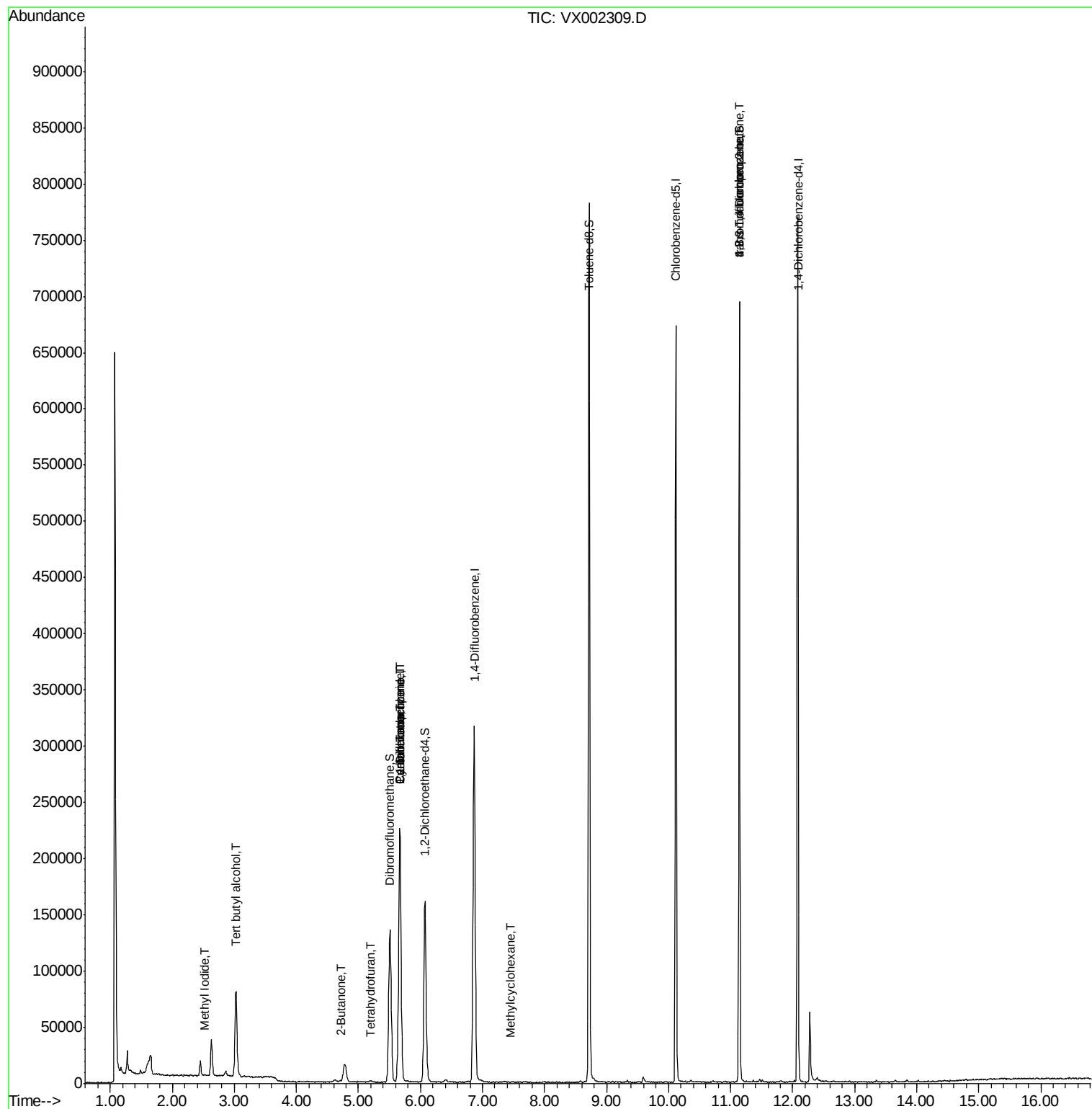
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	428	Below Cal	#	61
5) Bromomethane	1.64	94	1867	Below Cal		99
8) Diethyl Ether	2.18	74	176	Below Cal		58
10) Methyl Iodide	2.53	142	1411	0.43	ug/l #	91
11) Tert butyl alcohol	3.02	59	48172	59.99	ug/l #	78
13) Acrolein	2.29	56	267	Below Cal		83
15) Acrylonitrile	3.15	53	151	Below Cal	#	19
16) Acetone	2.45	43	13920	Below Cal		96
18) Methyl Acetate	2.78	43	450	Below Cal	#	74
19) Methyl tert-butyl Ether	3.20	73	148	Below Cal	#	33
20) Methylene Chloride	2.86	84	1892	Below Cal	#	87
22) Diisopropyl ether	3.87	45	254	Below Cal	#	50
25) 2-Butanone	4.71	43	1052	0.49	ug/l #	89
28) Bromochloromethane	5.03	49	37	Below Cal	#	13
29) Tetrahydrofuran	5.19	42	1383	1.00	ug/l #	70
31) Cyclohexane	5.67	56	4963	1.25	ug/l #	17
36) 1,1-Dichloropropene	5.67	75	15995	4.84	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20592	5.95	ug/l #	15
39) Methylcyclohexane	7.45	83	54	0.28	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	84968	23.83	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84968	83.54	ug/l #	6

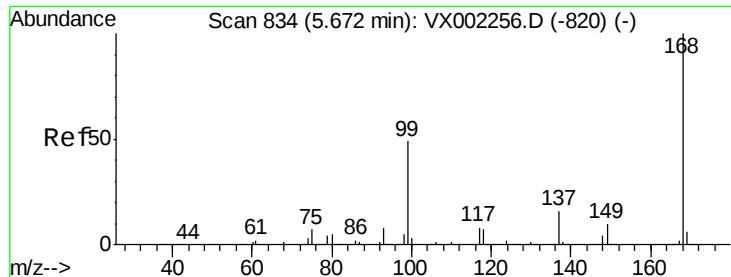
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

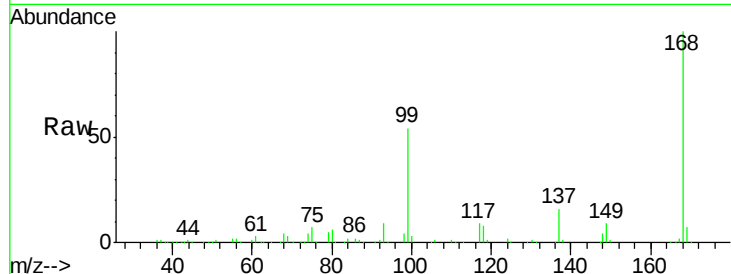
Z4TB07-180529

Tot Ion:168 Resp: 219077

Ion Ratio Lower Upper

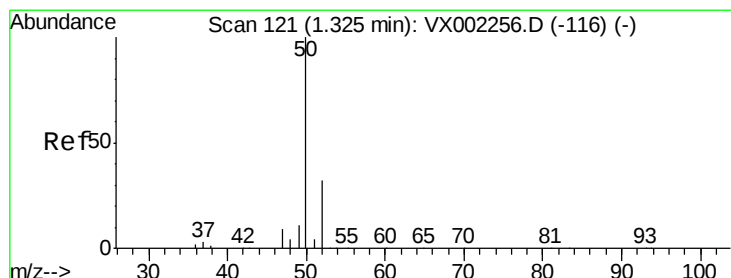
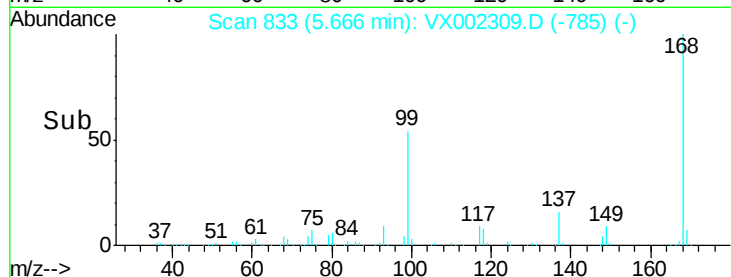
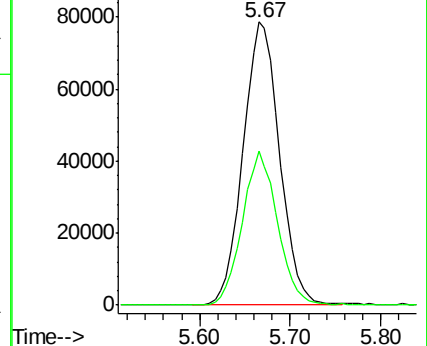
168 100

99 54.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002309.D

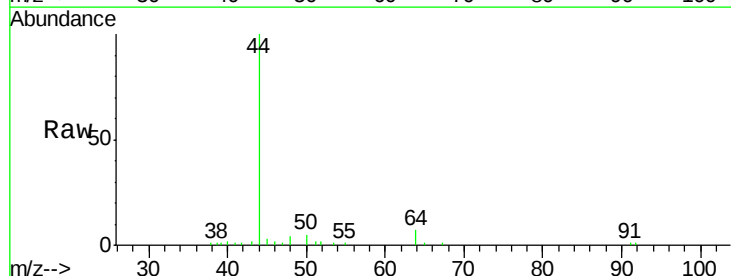
Acq: 05 Jun 2018 16:51

Tgt Ion: 50 Resp: 428

Ion Ratio Lower Upper

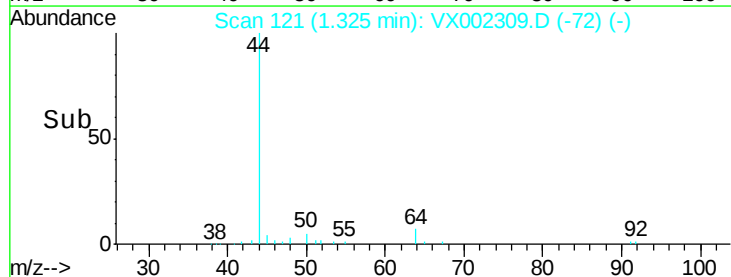
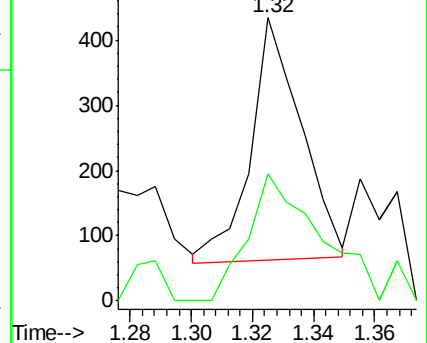
50 100

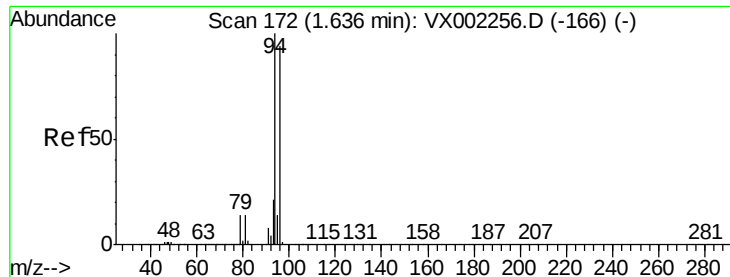
52 53.7 25.7 38.5#



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: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

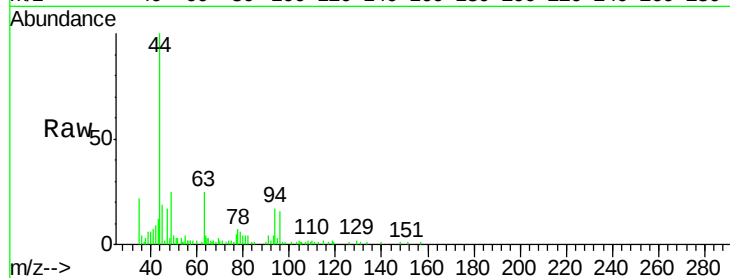
Z4TB07-180529

Tot Ion: 94 Resp: 1867

Ion Ratio Lower Upper

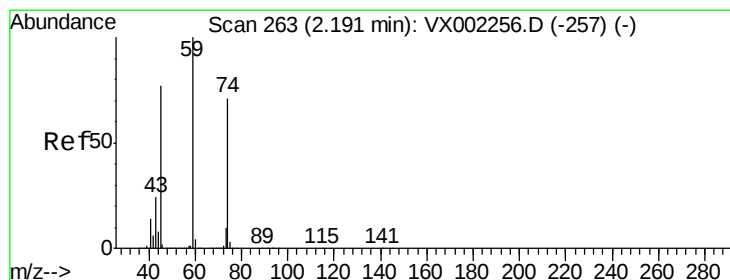
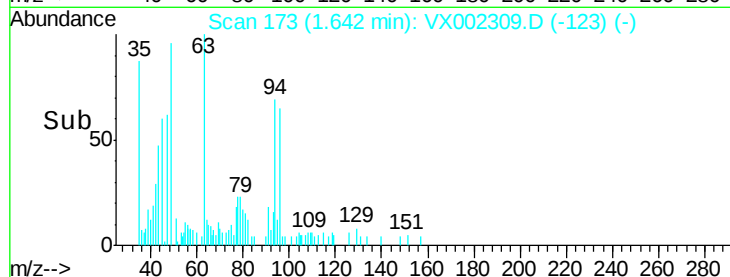
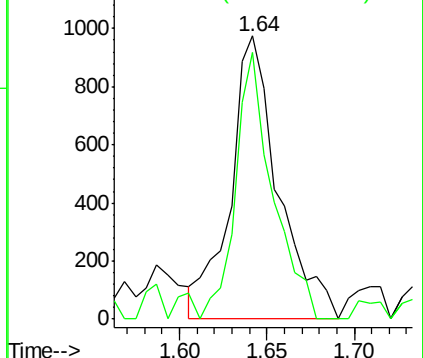
94 100

96 94.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002309.D

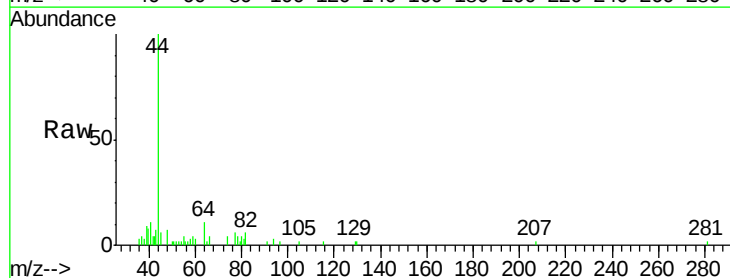
Acq: 05 Jun 2018 16:51

Tgt Ion: 74 Resp: 176

Ion Ratio Lower Upper

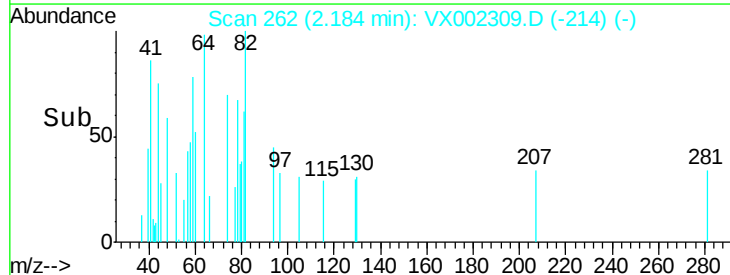
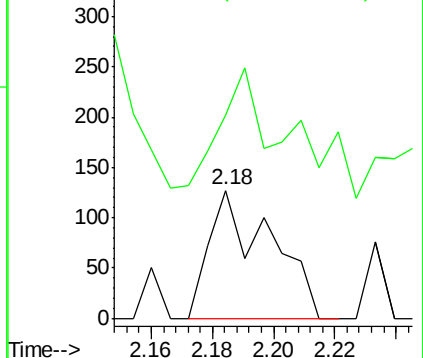
74 100

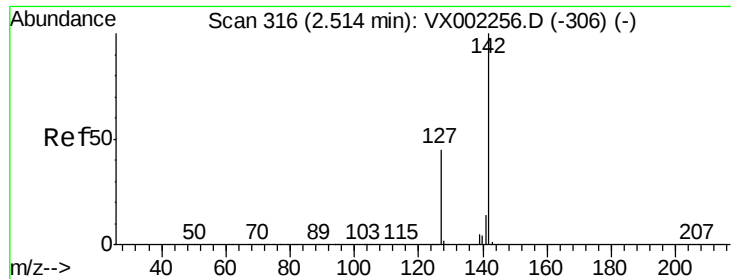
45 62.5 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

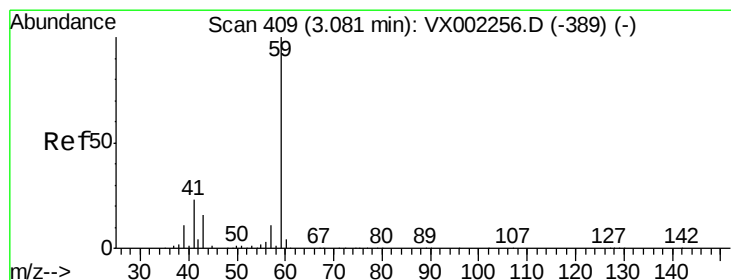
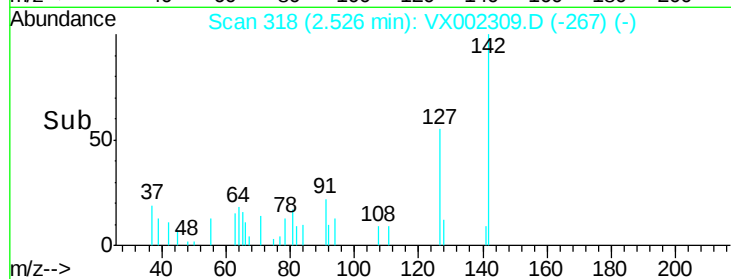
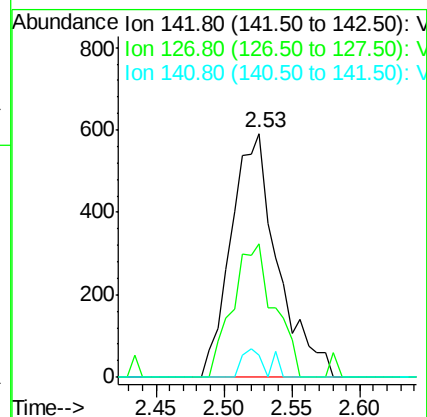
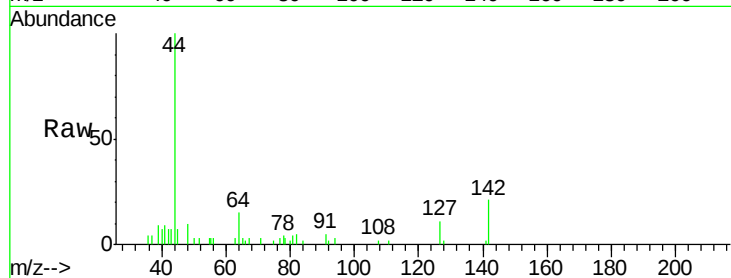




#10
Methyl Iodide
Concen: 0.43 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

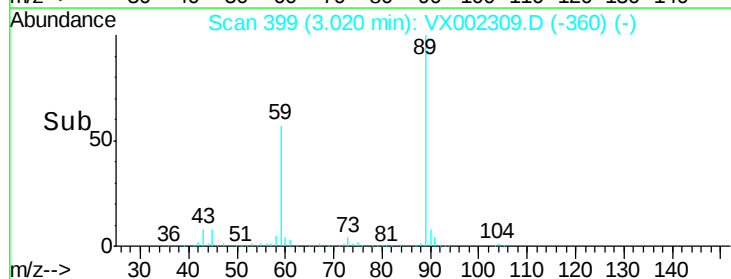
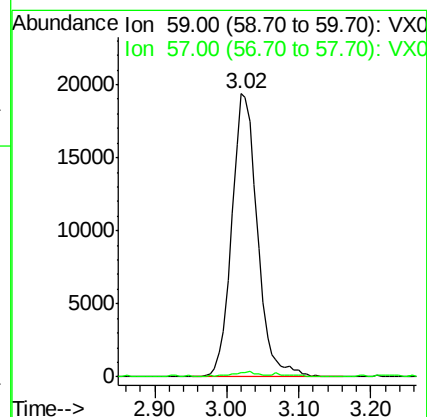
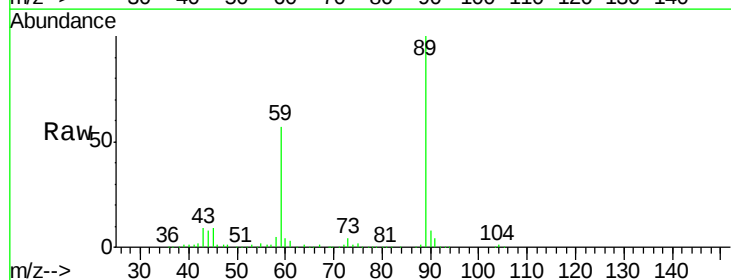
Instrument :
MSVOA_X
ClientSampleId :
Z4TB07-180529

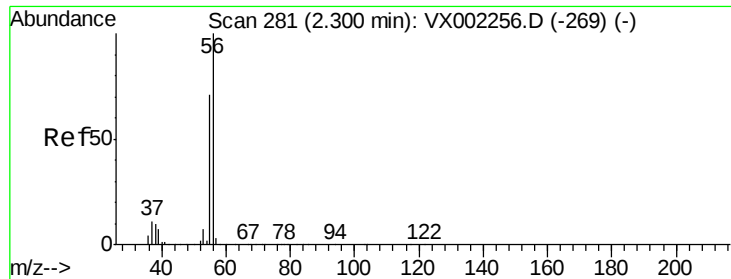
Tot Ion:142 Resp: 1411
Ion Ratio Lower Upper
142 100
127 49.0 36.6 55.0
141 4.5 11.3 16.9#



#11
Tert butyl alcohol
Concen: 59.99 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Tgt Ion: 59 Resp: 48172
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.2#

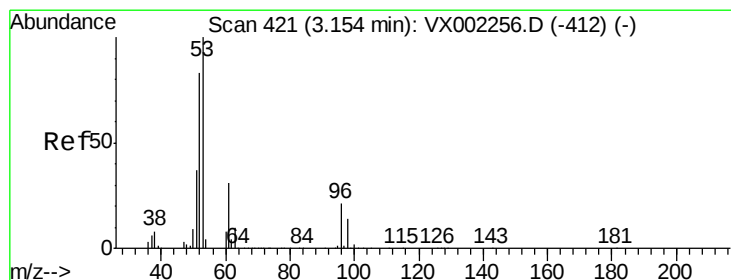
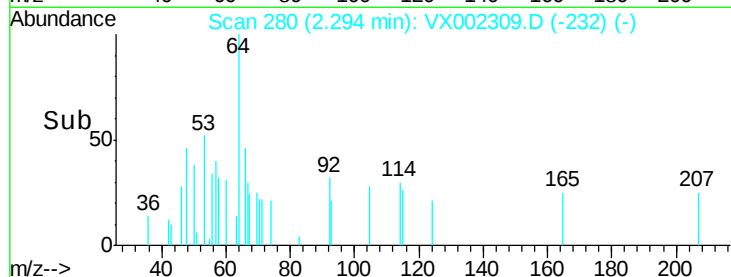
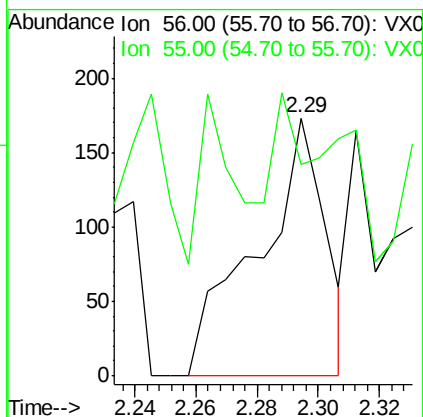
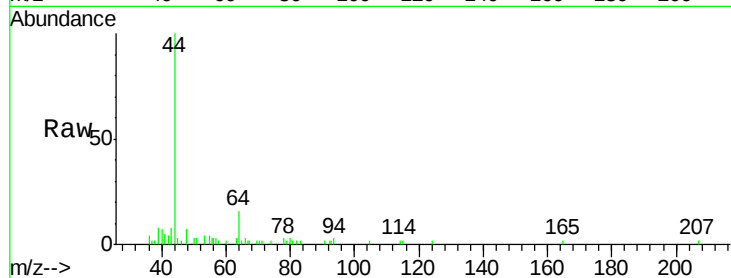




#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

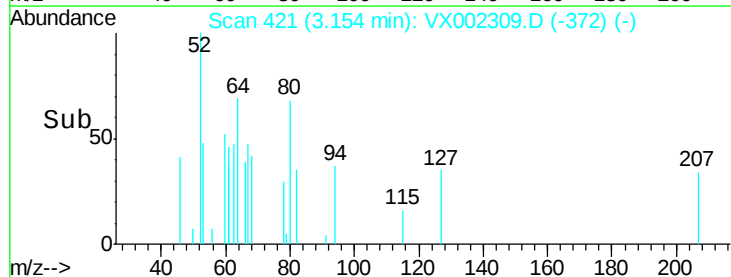
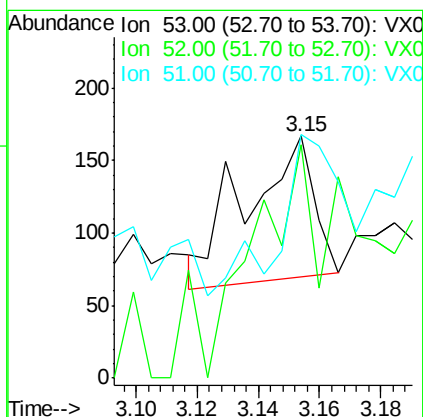
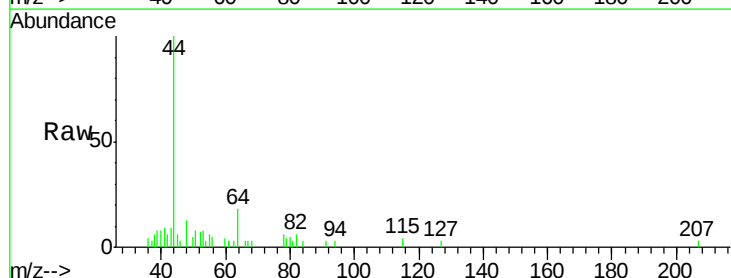
Instrument :
MSVOA_X
ClientSampleId :
Z4TB07-180529

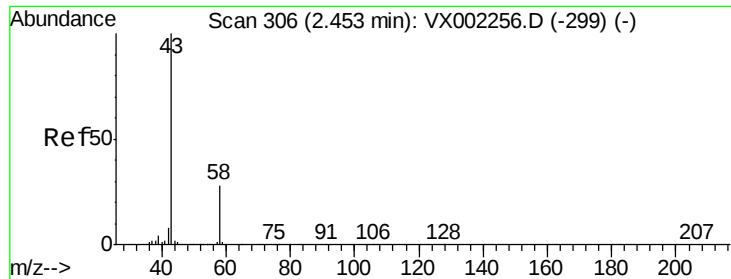
Tot Ion: 56 Resp: 267
Ion Ratio Lower Upper
56 100
55 57.3 57.0 85.4



#15
Acrylonitrile
Concen: Below Cal
RT: 3.15 min Scan# 421
Delta R.T. 0.00 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Tgt Ion: 53 Resp: 151
Ion Ratio Lower Upper
53 100
52 159.6 66.7 100.1#
51 81.5 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

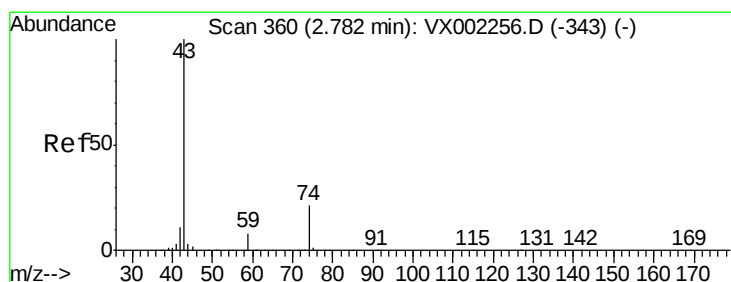
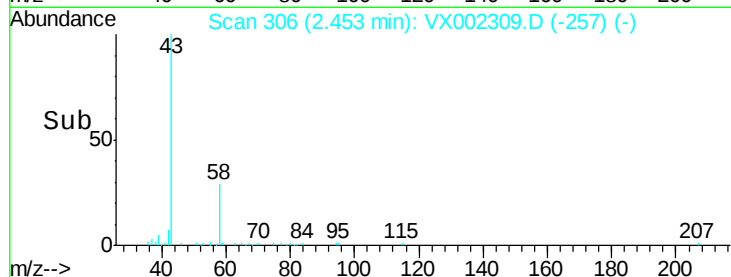
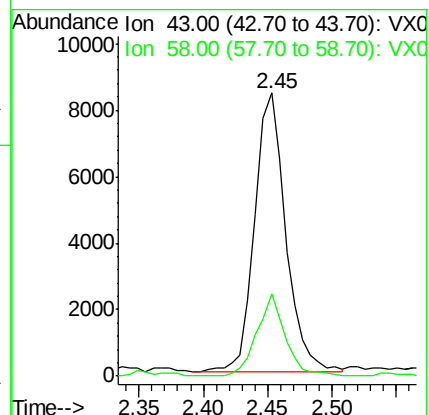
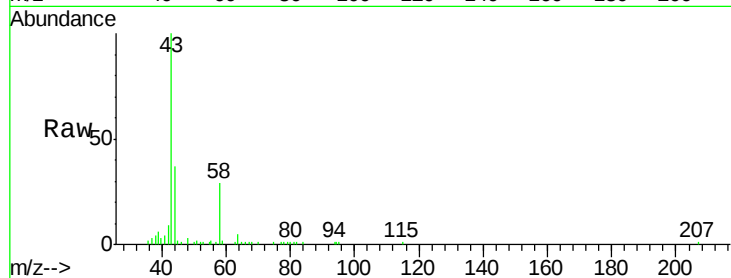
Z4TB07-180529

Tot Ion: 43 Resp: 13920

Ion Ratio Lower Upper

43 100

58 29.7 22.1 33.1



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002309.D

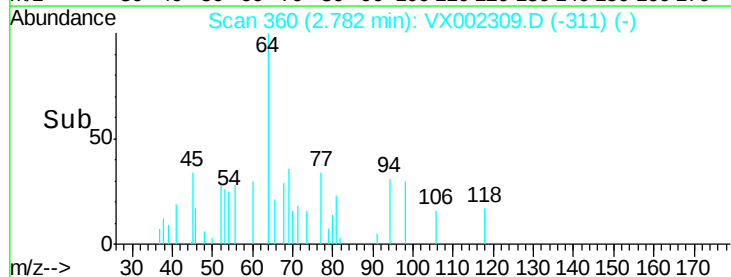
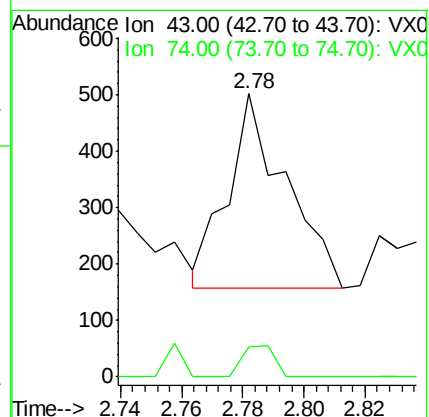
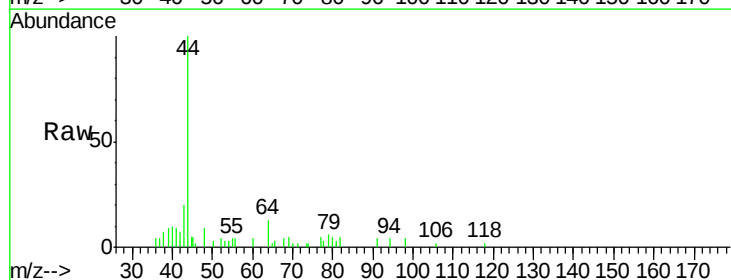
Acq: 05 Jun 2018 16:51

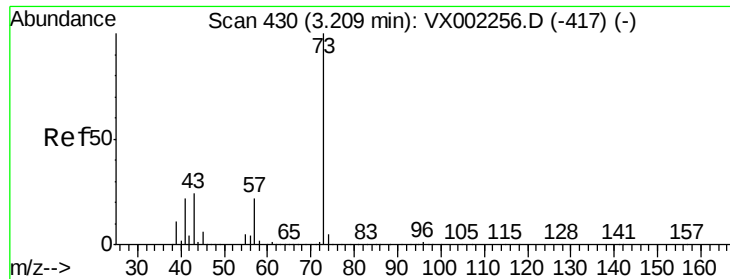
Tgt Ion: 43 Resp: 450

Ion Ratio Lower Upper

43 100

74 8.9 16.7 25.1#

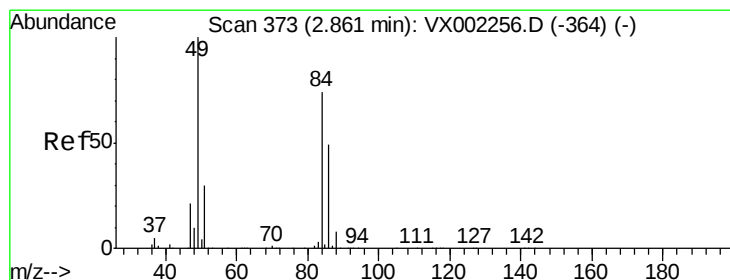
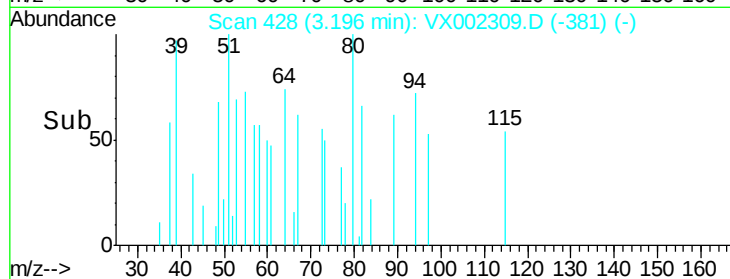
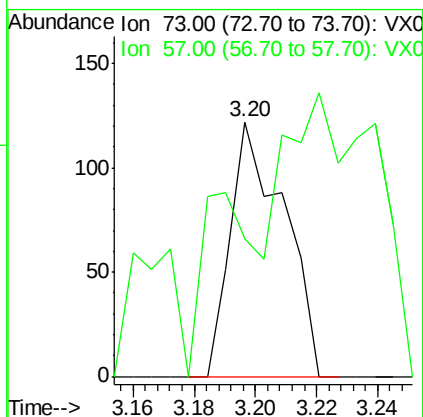
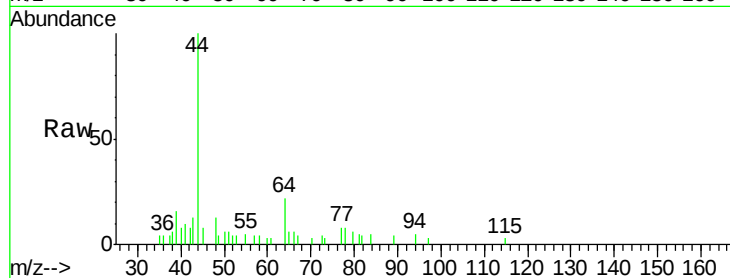




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

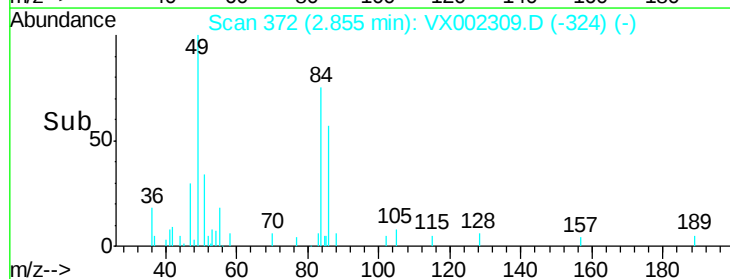
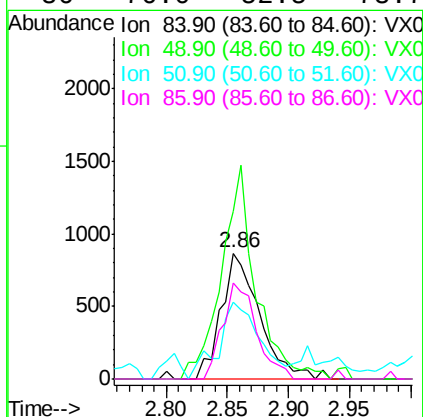
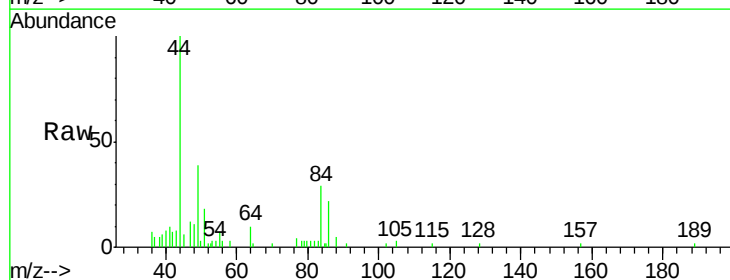
Instrument :
MSVOA_X
ClientSampleId :
Z4TB07-180529

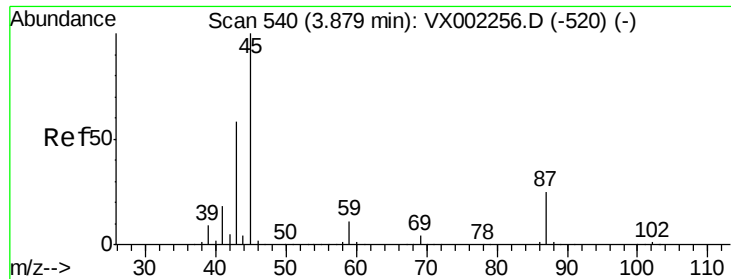
Tot Ion: 73 Resp: 148
Ion Ratio Lower Upper
73 100
57 54.1 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Tgt Ion: 84 Resp: 1892
Ion Ratio Lower Upper
84 100
49 126.1 107.8 161.6
51 61.5 32.8 49.2#
86 76.0 52.5 78.7



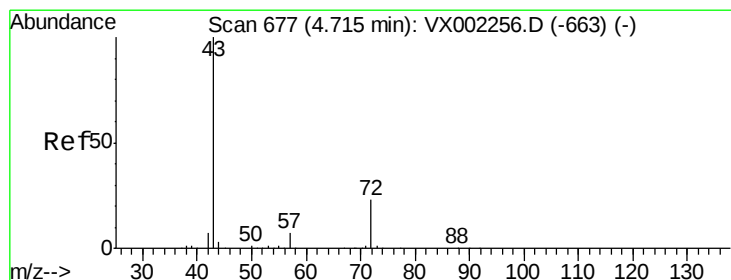
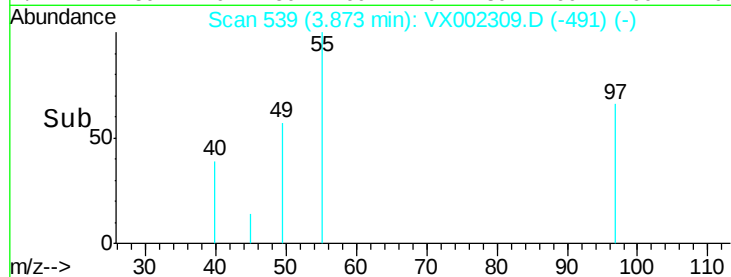
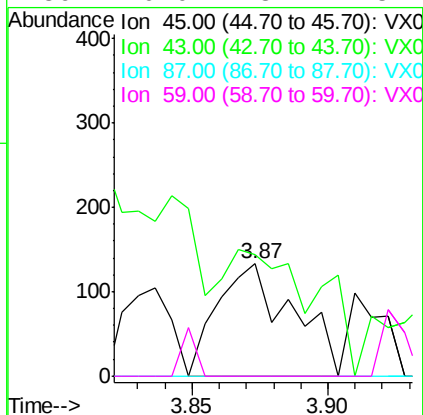
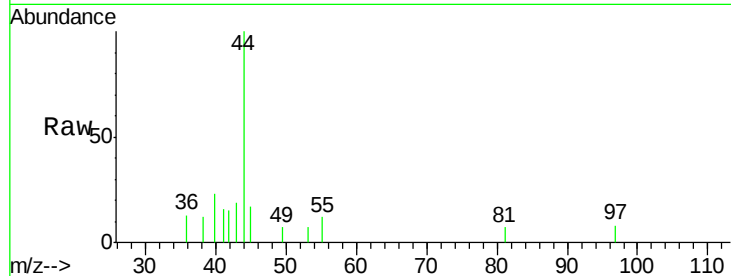


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 539
Delta R.T. -0.01 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
Z4TB07-180529

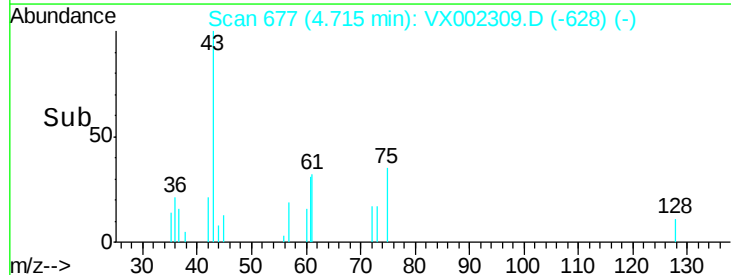
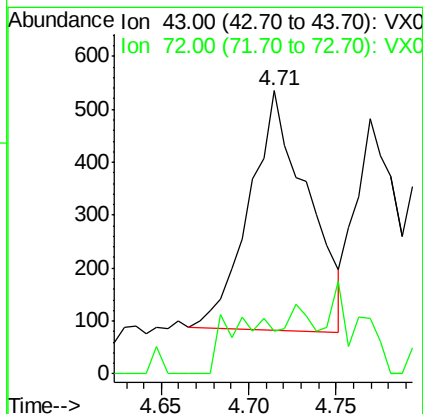
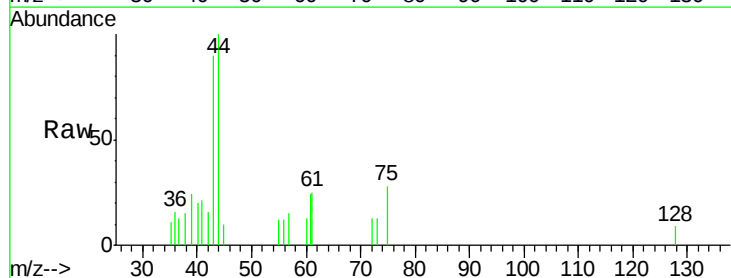
Tot Ion:	45	Resp:	254
Ion	Ratio	Lower	Upper
45	100		
43	18.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

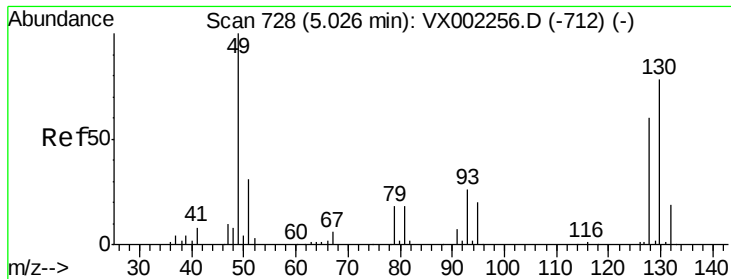


#25

2-Butanone
Concen: 0.49 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Tgt Ion:	43	Resp:	1052
Ion	Ratio	Lower	Upper
43	100		
72	17.9	18.5	27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampled :

Z4TB07-180529

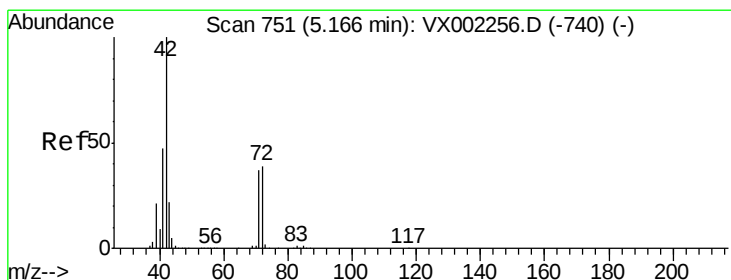
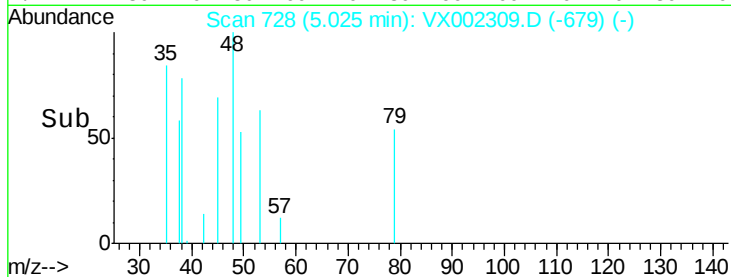
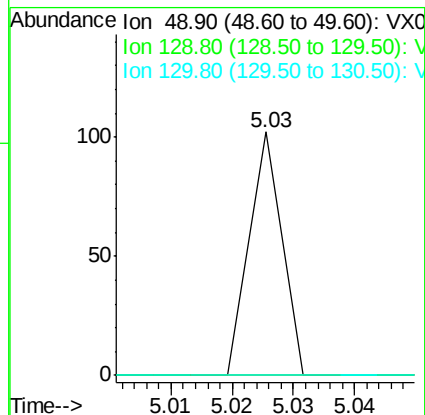
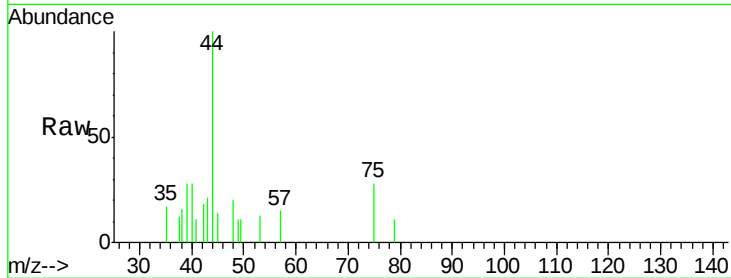
Tot Ion: 49 Resp: 37

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 1.00 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

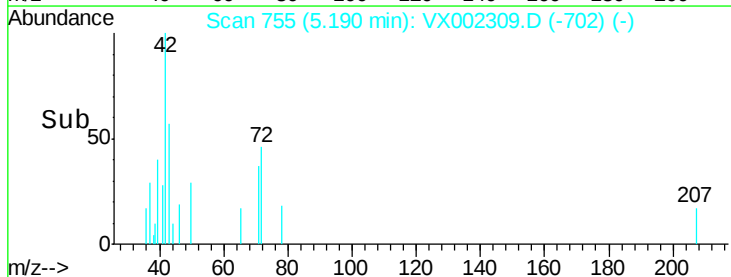
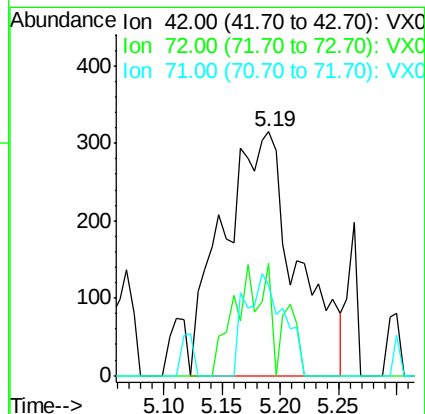
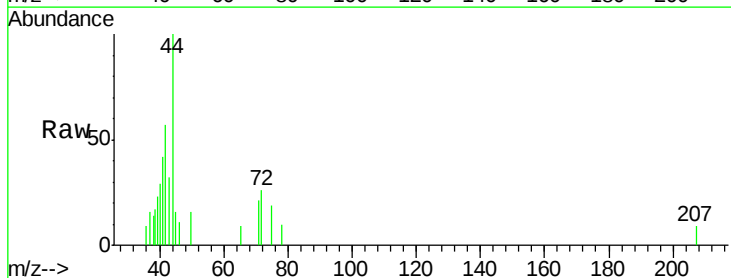
Tgt Ion: 42 Resp: 1383

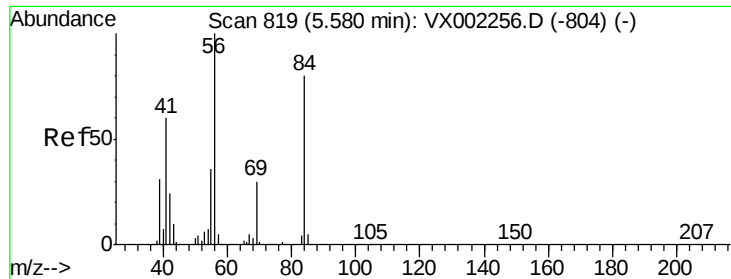
Ion Ratio Lower Upper

42 100

72 19.7 32.0 48.0#

71 21.8 30.1 45.1#

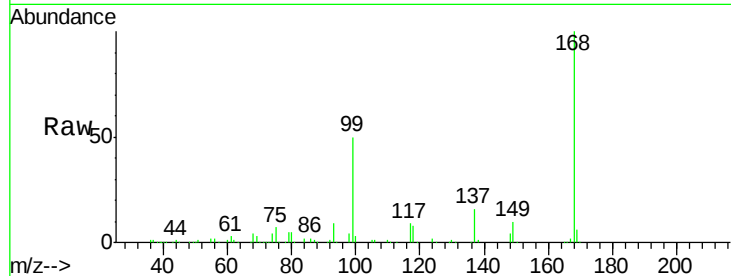




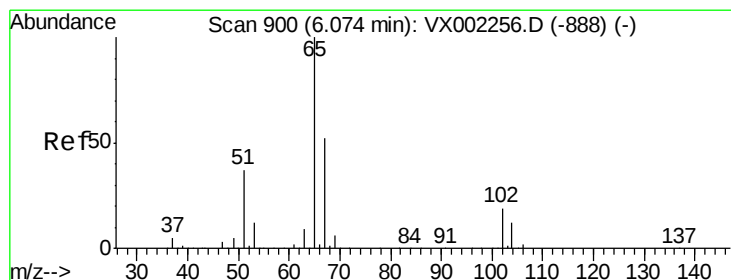
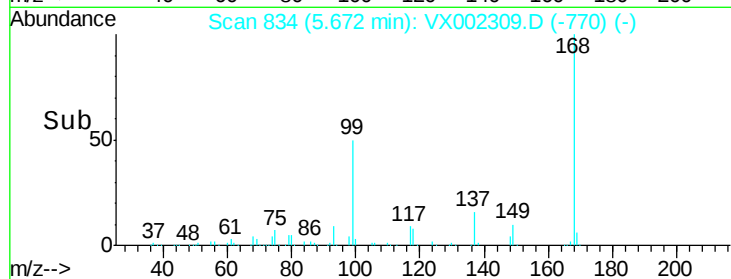
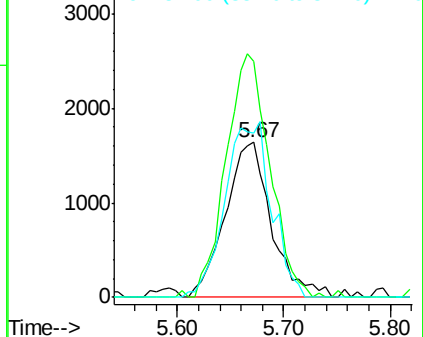
#31
Cyclohexane
Concen: 1.25 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Instrument :
MSVOA_X
ClientSampleId :
Z4TB07-180529

Tot Ion	56	Resp	4963
Ion Ratio	Lower	Upper	
56	100		
69	152.3	23.7	35.5#
84	106.2	64.1	96.1#

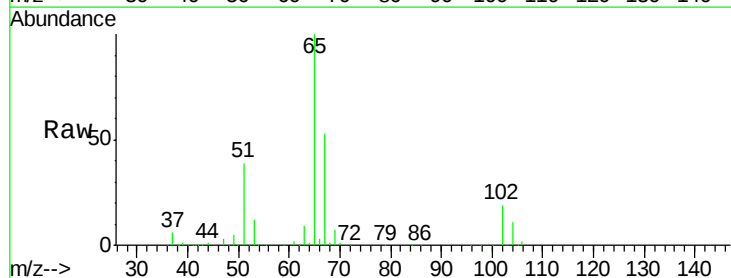


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

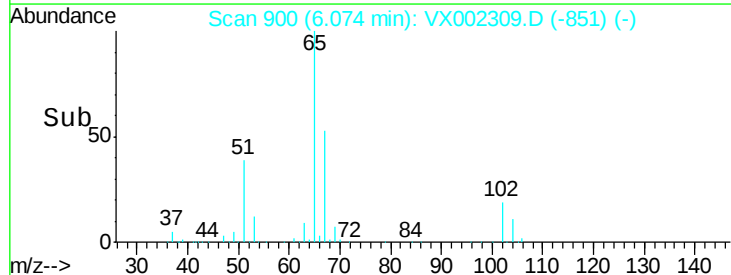
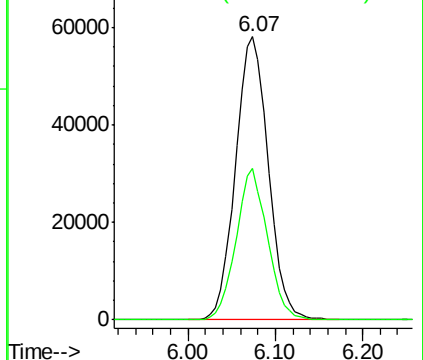


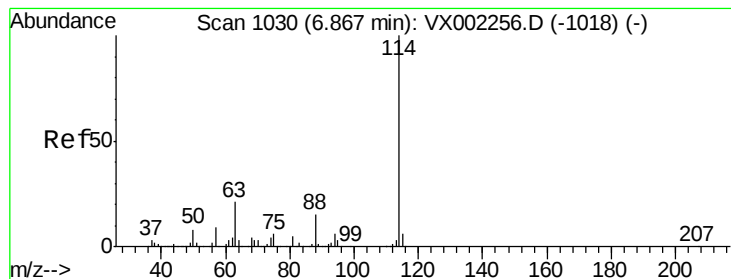
#33
1,2-Dichloroethane-d4
Concen: 48.18 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Tgt Ion	65	Resp	151347
Ion Ratio	Lower	Upper	
65	100		
67	51.4	0.0	102.6



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: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

Z4TB07-180529

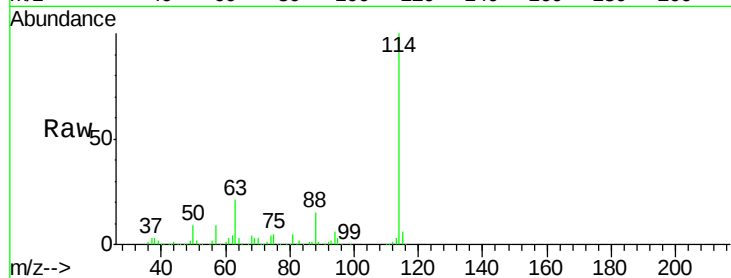
Tot Ion:114 Resp: 314416

Ion Ratio Lower Upper

114 100

63 21.0 0.0 41.4

88 15.4 0.0 30.0



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

150000

100000

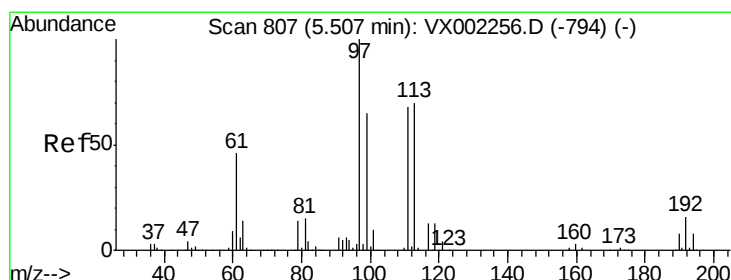
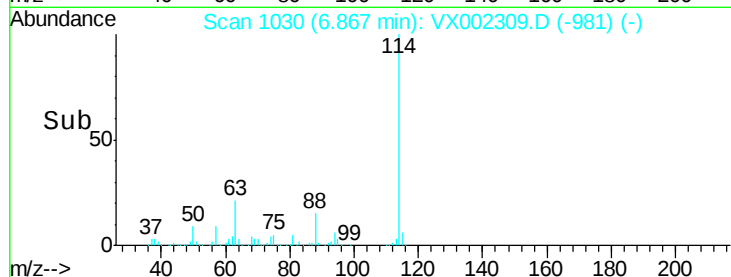
50000

0

6.87

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 44.39 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

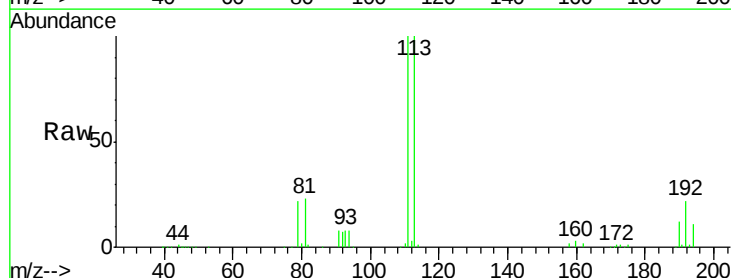
Tgt Ion:113 Resp: 109750

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

192 23.0 19.1 28.7



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

50000

40000

30000

20000

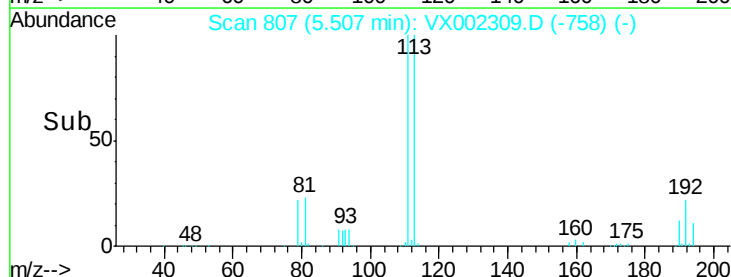
10000

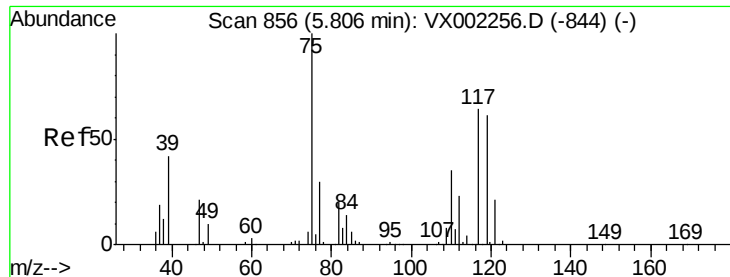
0

5.51

5.40 5.50 5.60

Time-->

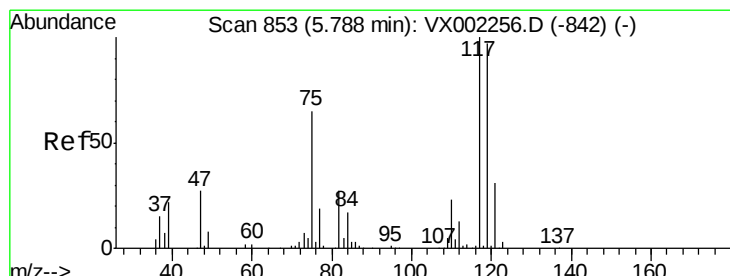
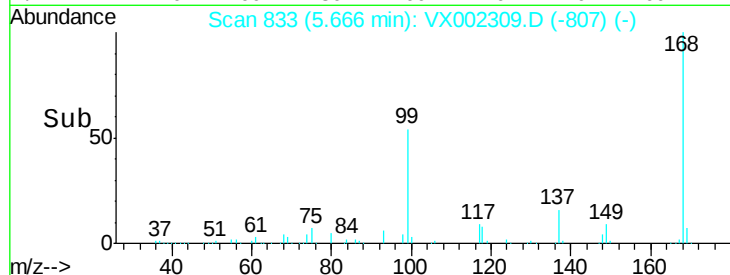
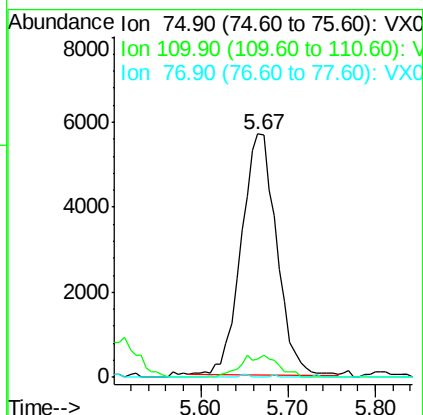
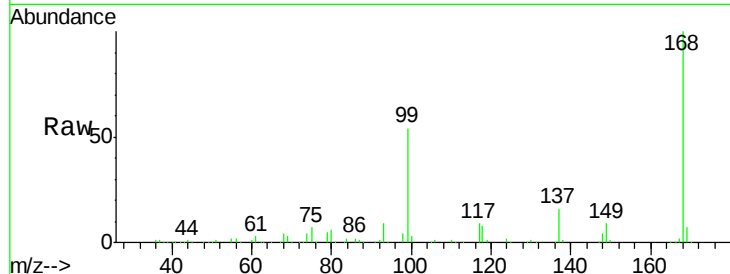




#36
 1,1-Dichloropropene
 Concen: 4.84 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002309.D
 Acq: 05 Jun 2018 16:51

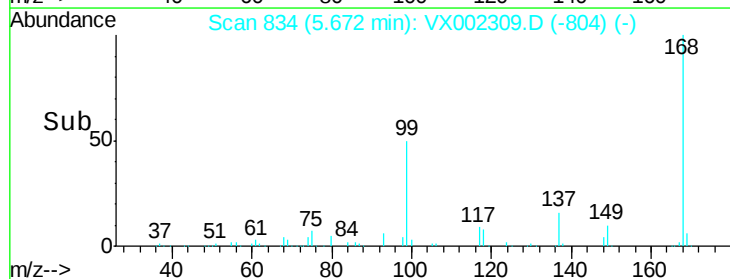
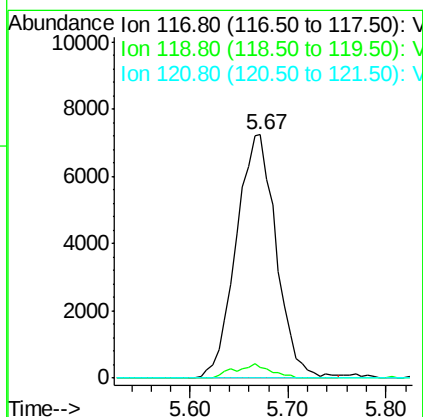
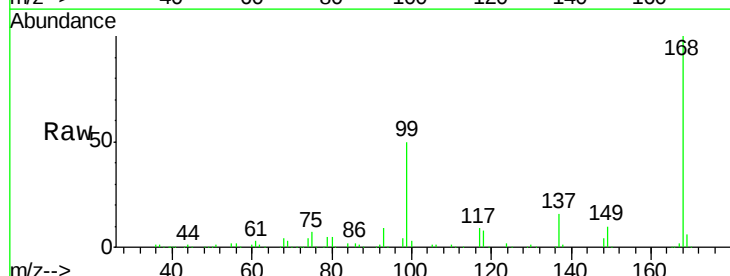
Instrument :
 MSVOA_X
 ClientSampleId :
 Z4TB07-180529

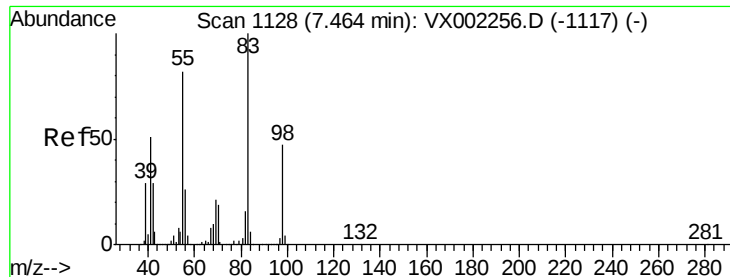
Tot Ion	75	Resp	15995
Ion Ratio	100	Lower	Upper
110	9.6	18.1	54.4#
77	0.1	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.95 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002309.D
 Acq: 05 Jun 2018 16:51

Tgt Ion	117	Resp	20592
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	4.3	77.4	116.0#
121	0.0	24.4	36.6#

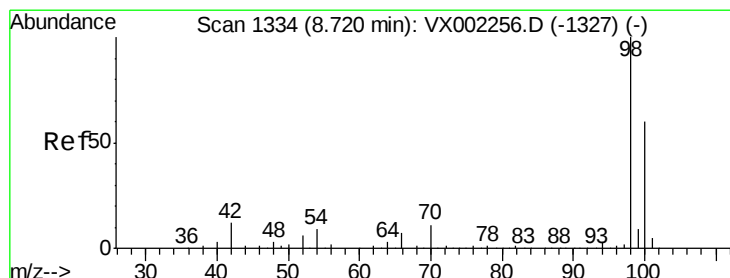
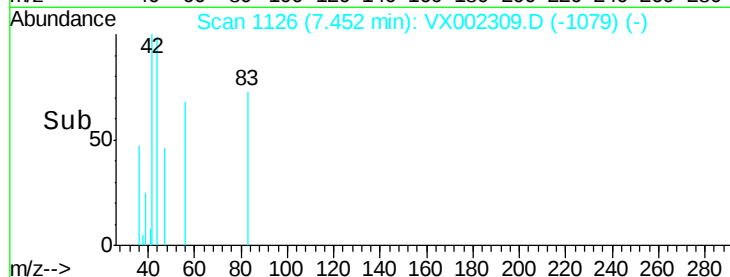
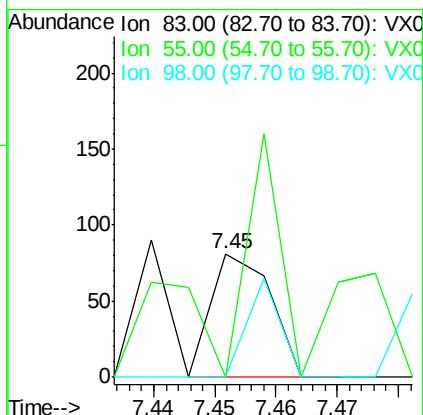
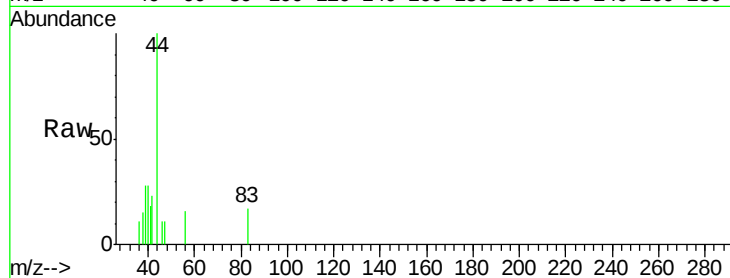




#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

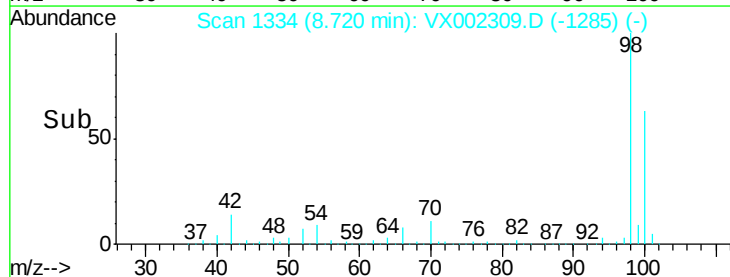
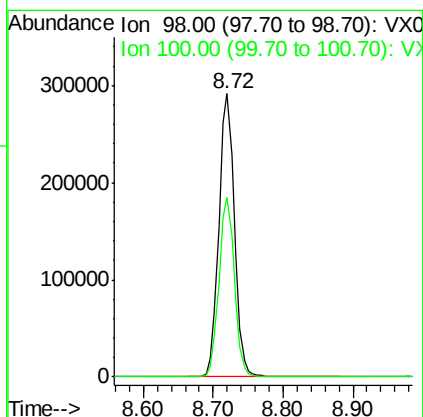
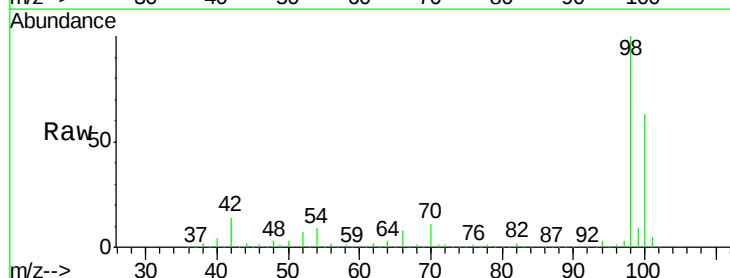
Instrument :
MSVOA_X
ClientSampleId :
Z4TB07-180529

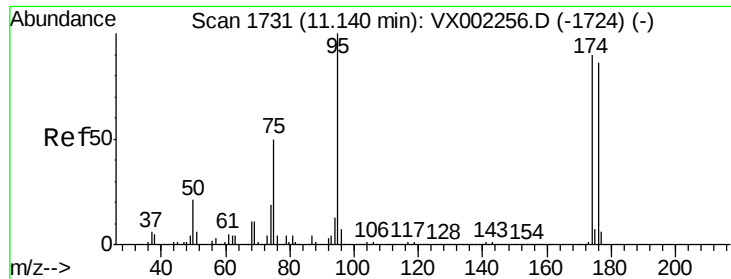
Tot Ion: 83 Resp: 54
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 47.54 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002309.D
Acq: 05 Jun 2018 16:51

Tgt Ion: 98 Resp: 450504
Ion Ratio Lower Upper
98 100
100 62.9 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 43.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

Z4TB07-180529

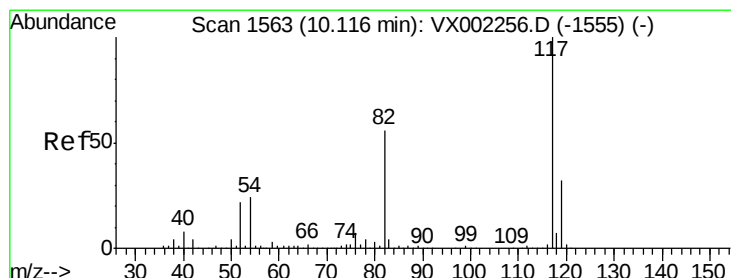
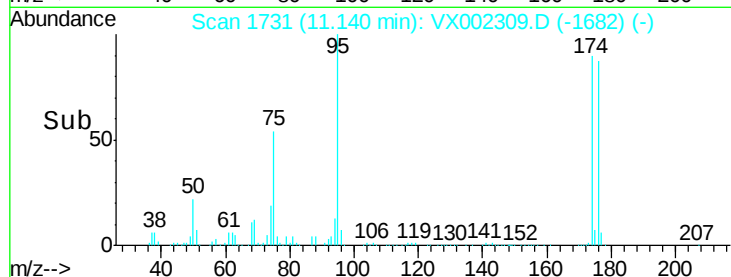
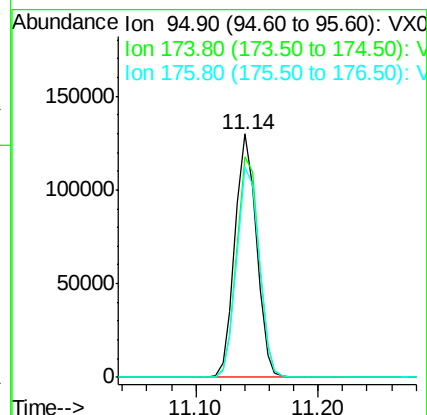
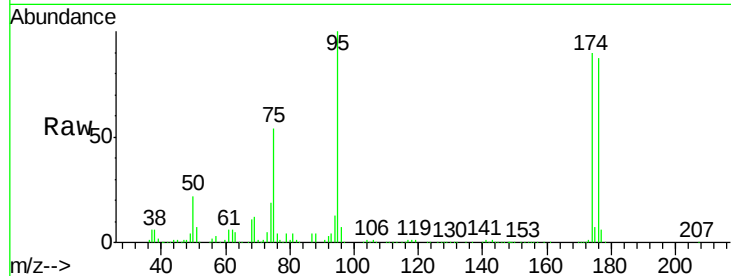
Tot Ion: 95 Resp: 157952

Ion Ratio Lower Upper

95 100

174 93.8 0.0 187.4

176 90.0 0.0 181.0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

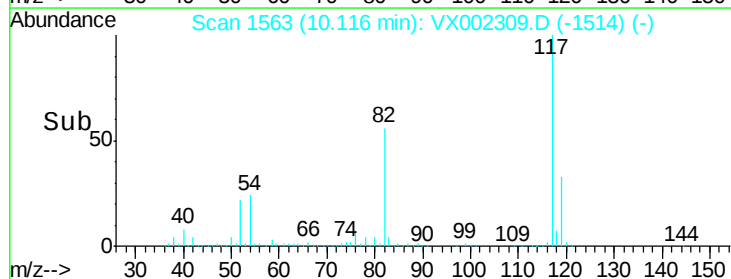
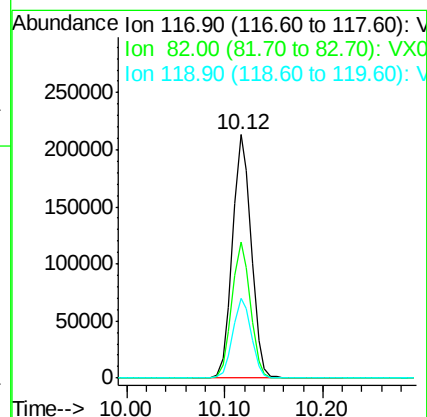
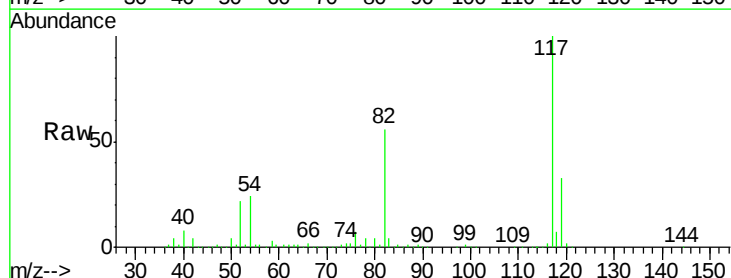
Tgt Ion: 117 Resp: 284765

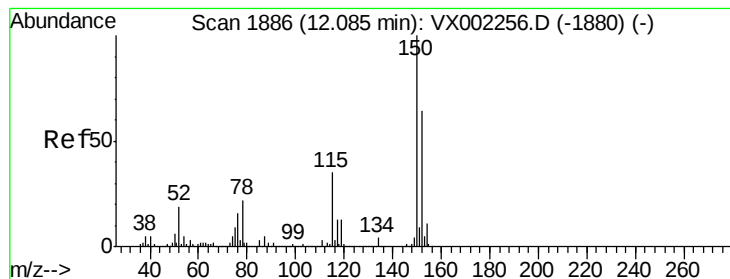
Ion Ratio Lower Upper

117 100

82 55.9 45.0 67.4

119 32.6 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

Z4TB07-180529

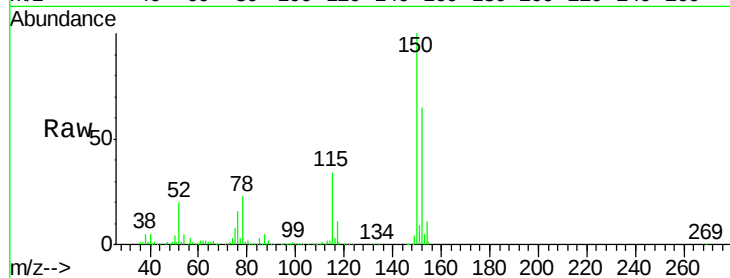
Tot Ion:152 Resp: 162484

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

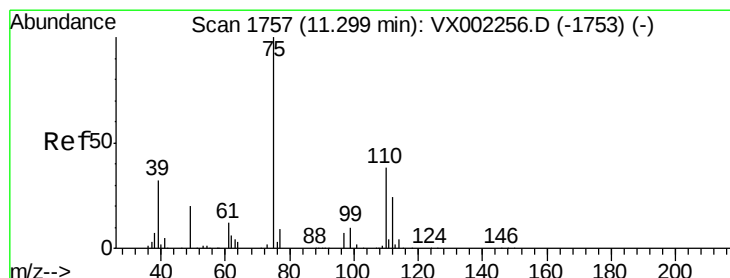
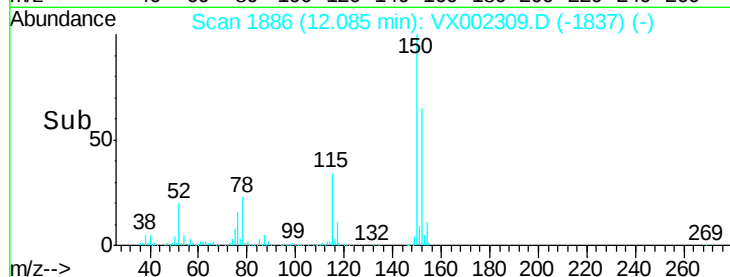
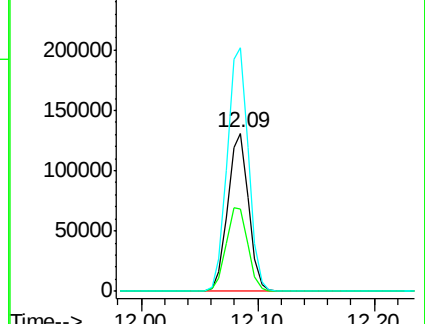
150 156.7 0.0 347.2



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: 23.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002309.D

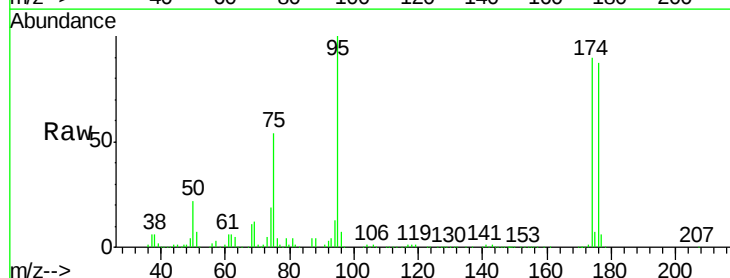
Acq: 05 Jun 2018 16:51

Tgt Ion: 75 Resp: 84968

Ion Ratio Lower Upper

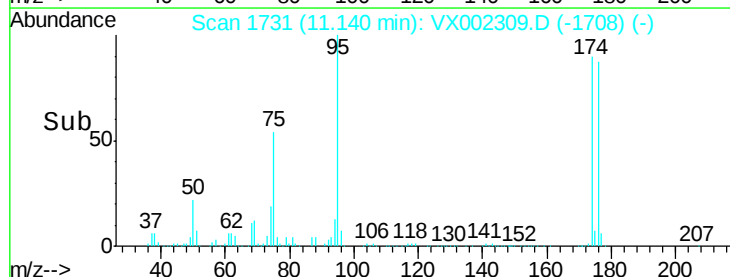
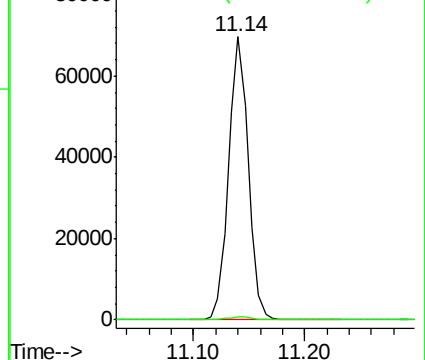
75 100

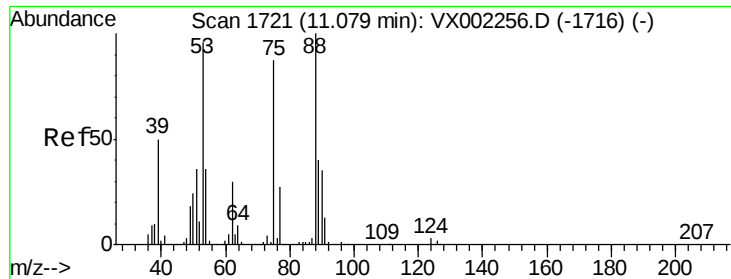
77 1.3 22.8 68.3#



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: 83.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002309.D

Acq: 05 Jun 2018 16:51

Instrument :

MSVOA_X

ClientSampleId :

Z4TB07-180529

Tot Ion: 75 Resp: 84968

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.1 38.2 57.2#

