

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030519\
 Data File : VX007844.D
 Acq On : 05 Mar 2019 18:21
 Operator : JC/SP
 Sample : K1707-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S11

Quant Time: Mar 06 00:13:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	312402	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	493450	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	467925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219293	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	172645	44.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.22%	
35) Dibromofluoromethane	5.51	113	163554	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
50) Toluene-d8	8.71	98	600967	47.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.18%	
62) 4-Bromofluorobenzene	11.13	95	216288	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	

Target Compounds

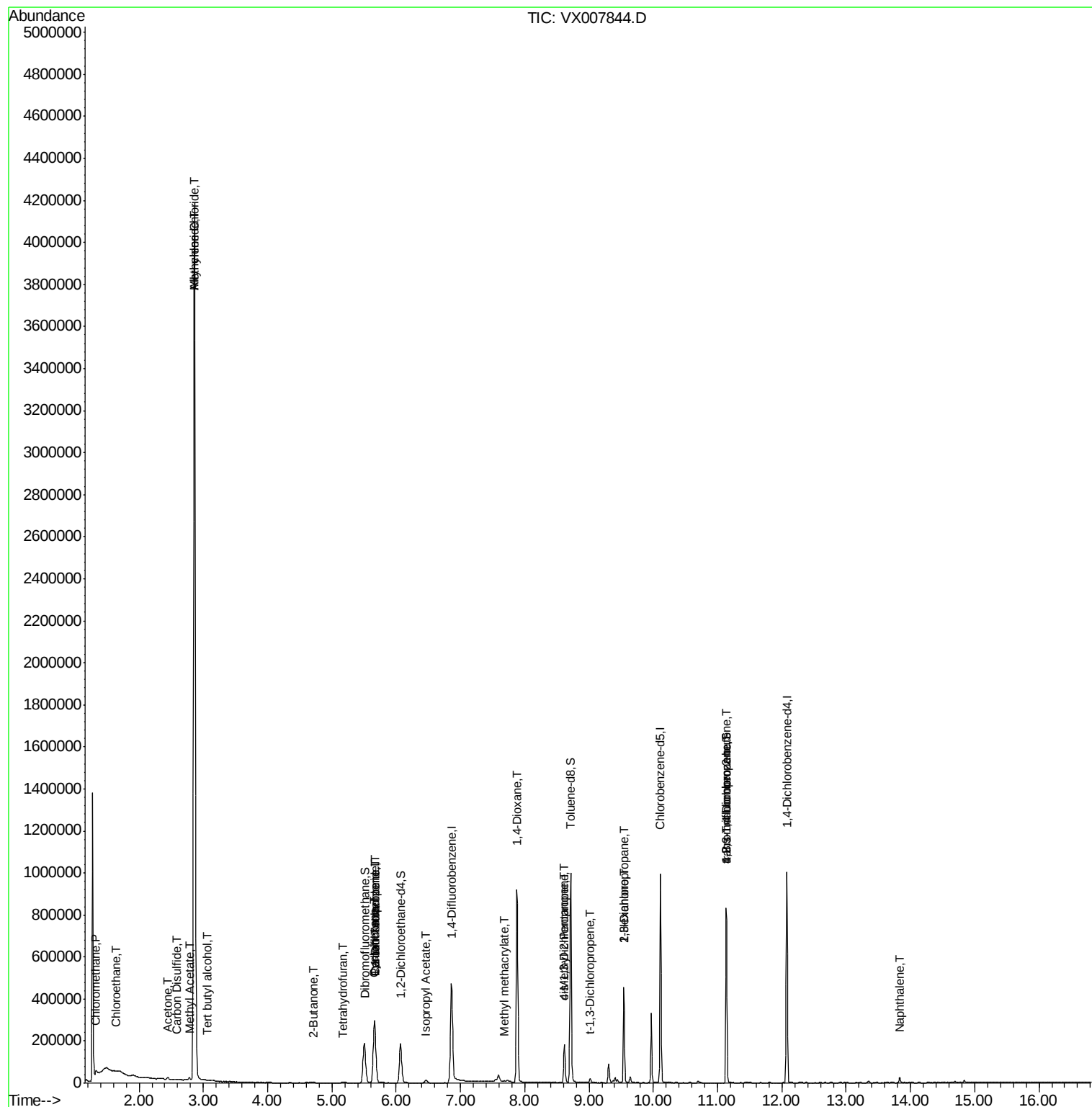
					Qvalue	
3) Chloromethane	1.33	50	1521	0.477	ug/l	92
5) Bromomethane	1.65	94	100	Below Cal	#	66
6) Chloroethane	1.64	64	7419	3.549	ug/l #	44
11) Tert butyl alcohol	3.06	59	741	1.009	ug/l	98
14) Allyl chloride	2.86	41	86849	17.188	ug/l #	25
16) Acetone	2.45	43	10433	6.063	ug/l	93
17) Carbon Disulfide	2.58	76	2004	0.264	ug/l #	81
18) Methyl Acetate	2.78	43	11195	2.981	ug/l	96
20) Methylene Chloride	2.86	84	1919939	604.215	ug/l	94
25) 2-Butanone	4.71	43	2979	1.136	ug/l	98
29) Tetrahydrofuran	5.16	42	1234	0.714	ug/l	89
31) Cyclohexane	5.65	56	5115	0.951	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19710	4.443	ug/l #	47
38) Carbon Tetrachloride	5.66	117	26588	5.966	ug/l #	17
43) Isopropyl Acetate	6.46	43	16336	2.154	ug/l	99
48) Methyl methacrylate	7.68	41	8058	2.027	ug/l #	19
49) 1,4-Dioxane	7.87	88	116	1.351	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	58630	11.548	ug/l #	51
53) t-1,3-Dichloropropene	9.02	75	39	2.810	ug/l #	43
54) cis-1,3-Dichloropropene	8.62	75	28189	5.416	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	3705	0.643	ug/l #	42
59) 2-Hexanone	9.54	43	50509	12.672	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	100077	21.410	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	100077	56.929	ug/l #	9
95) Naphthalene	13.83	128	16323	1.131	ug/l	99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampled :

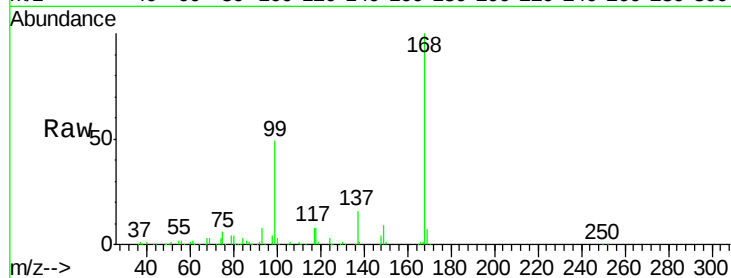
S11

Tot Ion:168 Resp: 312402

Ion Ratio Lower Upper

168 100

99 49.2 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

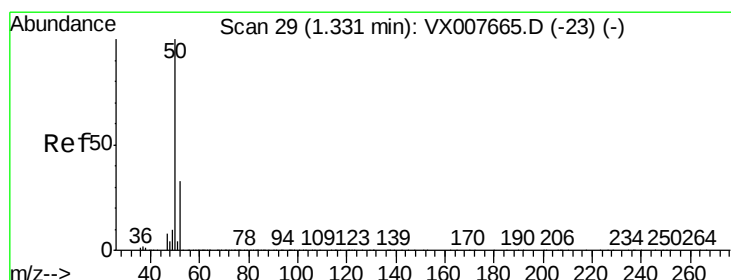
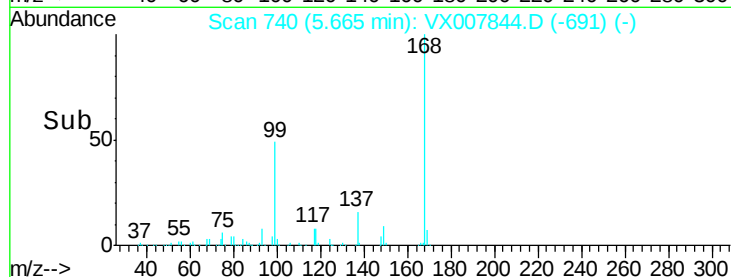
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.477 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007844.D

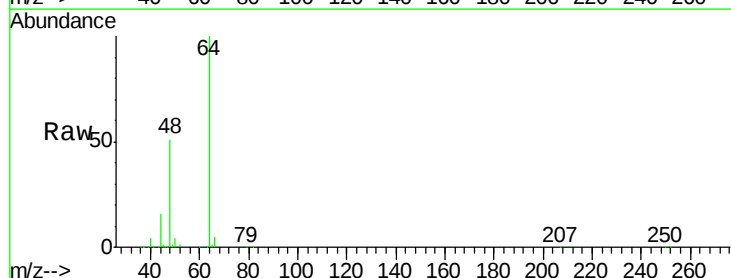
Acq: 05 Mar 2019 18:21

Tgt Ion: 50 Resp: 1521

Ion Ratio Lower Upper

50 100

52 28.0 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

5000

4000

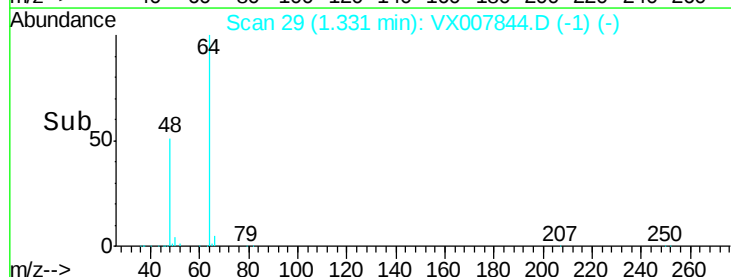
3000

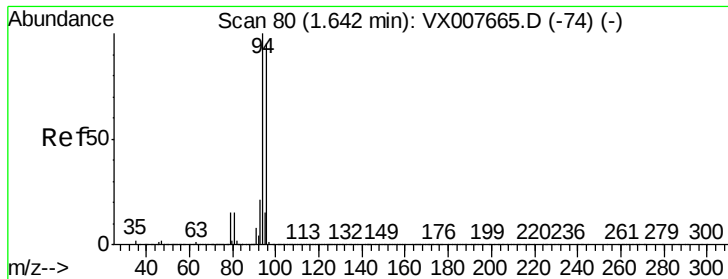
2000

1000

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampled :

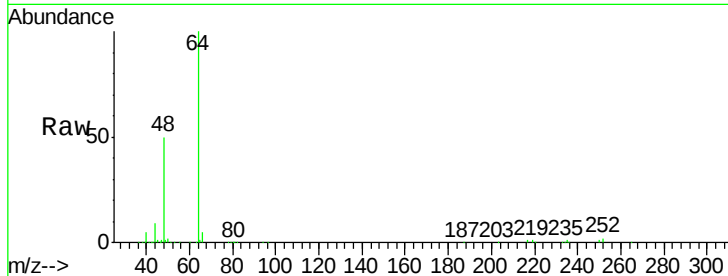
S11

Tot Ion: 94 Resp: 100

Ion Ratio Lower Upper

94 100

96 59.8 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

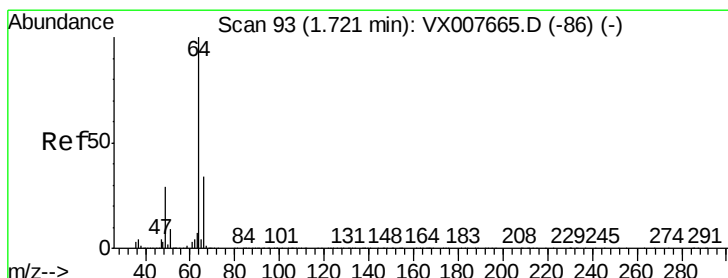
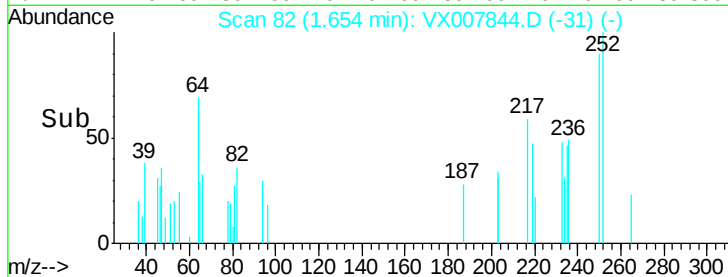
1.65

1.64

1.66

1.68

Time-->



#6

Chloroethane

Concen: 3.549 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.08 min

Lab File: VX007844.D

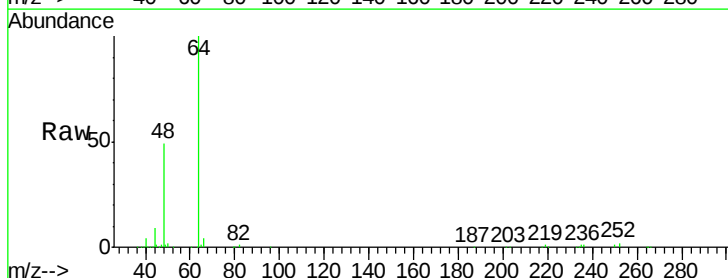
Acq: 05 Mar 2019 18:21

Tgt Ion: 64 Resp: 7419

Ion Ratio Lower Upper

64 100

66 0.9 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.64

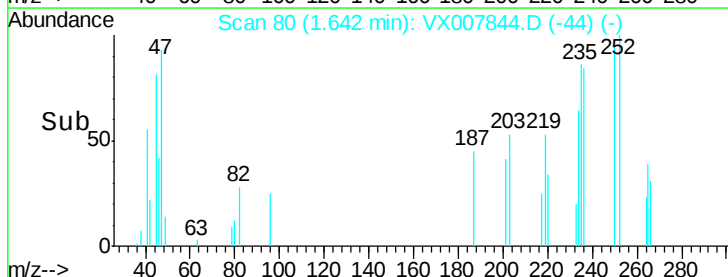
1.60

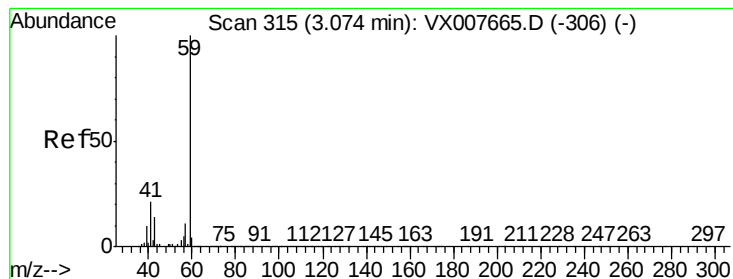
1.62

1.64

1.66

Time-->



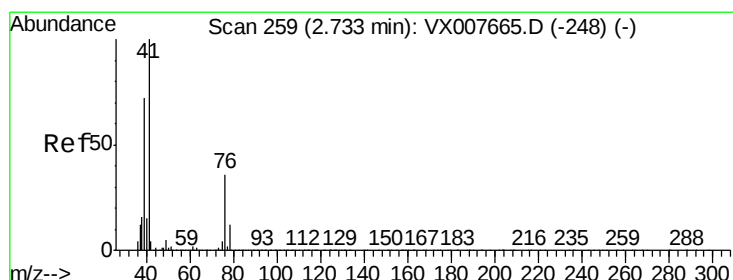
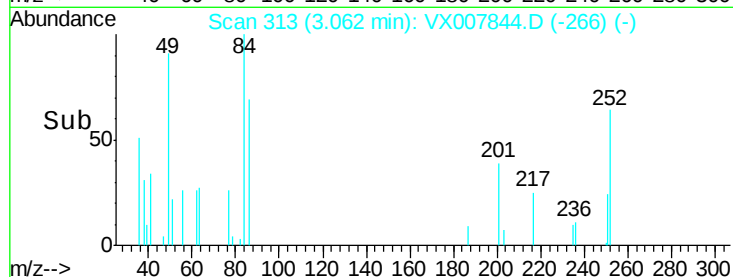
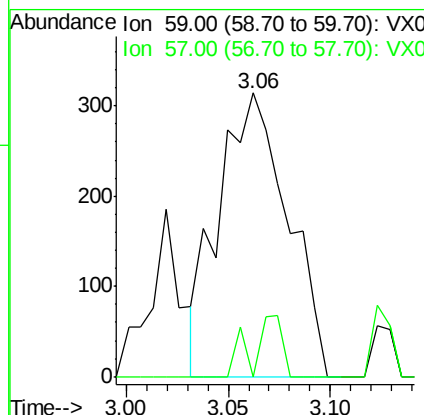
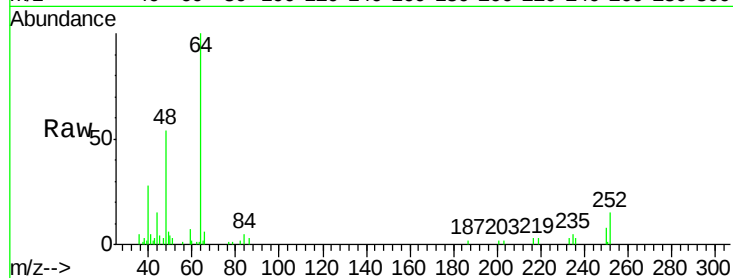


#11

Tert butyl alcohol
 Concen: 1.009 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Instrument :
 MSVOA_X
 ClientSampleId :
 S11

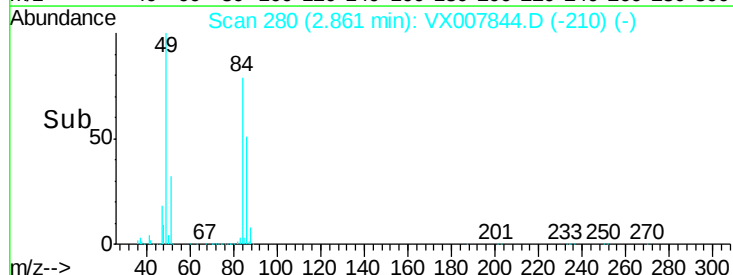
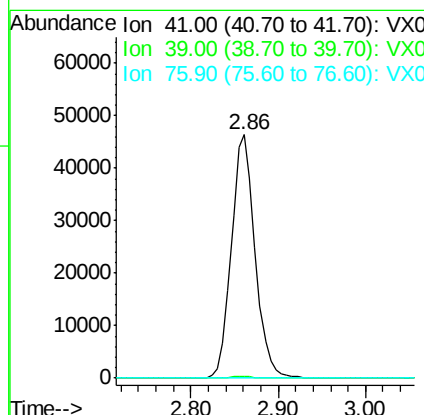
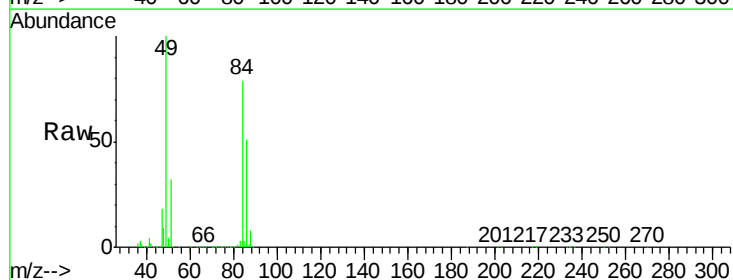
Tot Ion: 59 Resp: 741
 Ion Ratio Lower Upper
 59 100
 57 9.3 8.1 12.1

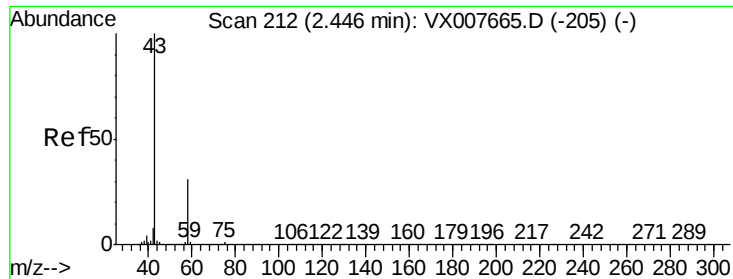


#14

Allyl chloride
 Concen: 17.188 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.13 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Tgt Ion: 41 Resp: 86849
 Ion Ratio Lower Upper
 41 100
 39 1.0 54.1 81.1#
 76 0.2 27.8 41.8#





#16

Acetone

Concen: 6.063 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampled :

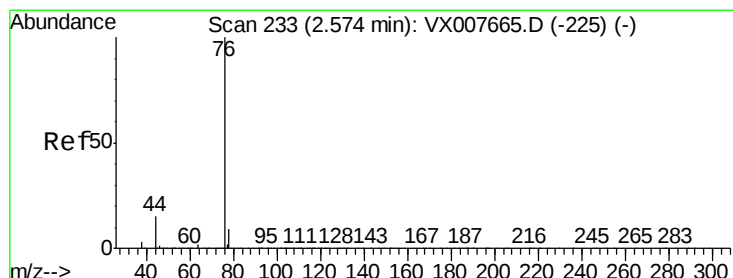
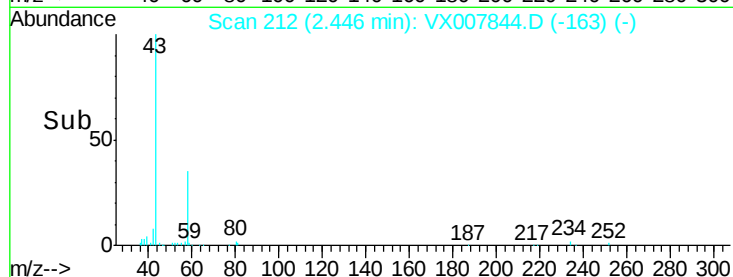
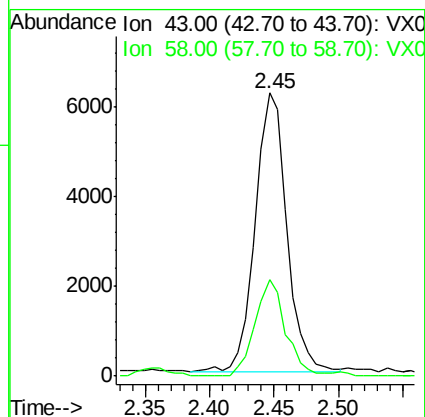
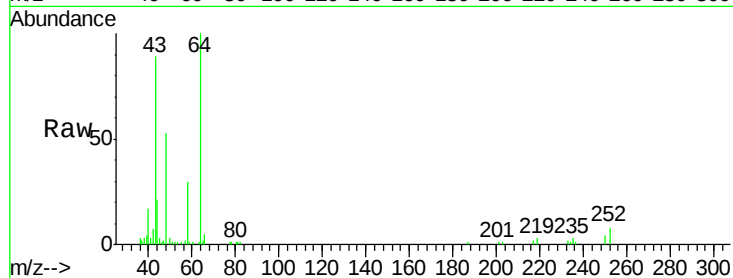
S11

Tot Ion: 43 Resp: 10433

Ion Ratio Lower Upper

43 100

58 34.7 24.9 37.3



#17

Carbon Disulfide

Concen: 0.264 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX007844.D

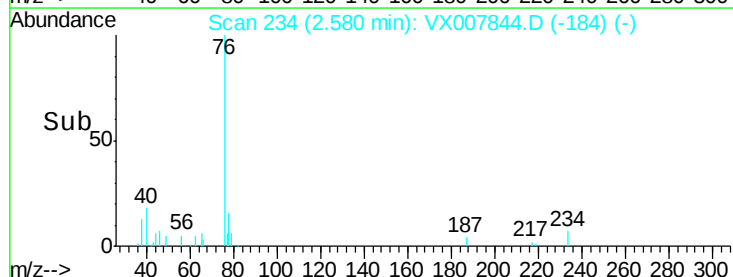
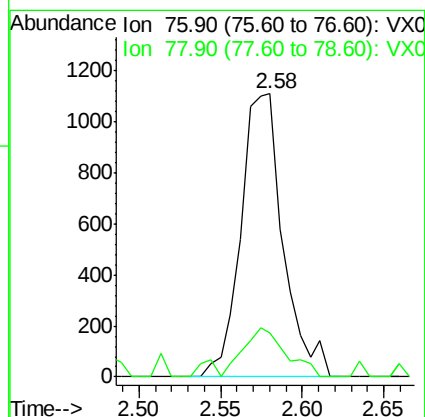
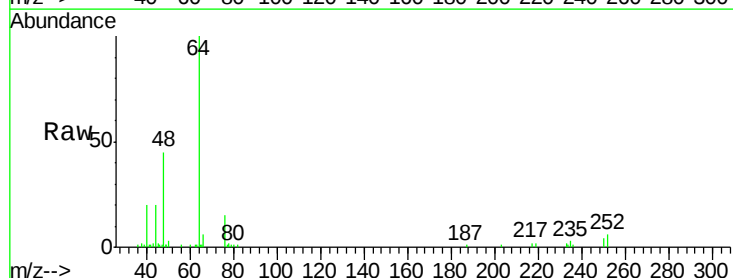
Acq: 05 Mar 2019 18:21

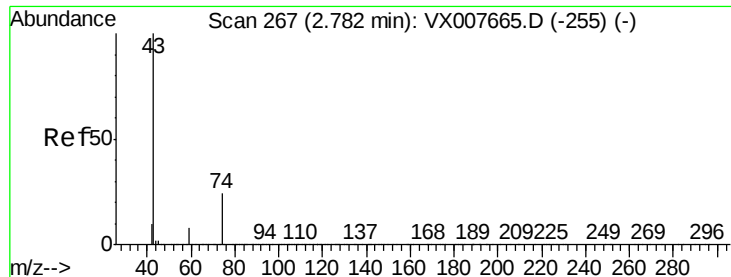
Tgt Ion: 76 Resp: 2004

Ion Ratio Lower Upper

76 100

78 15.6 7.1 10.7#

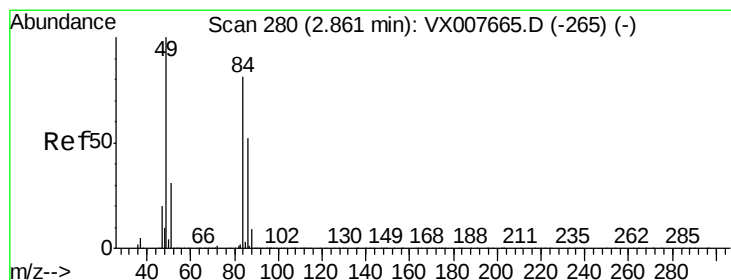
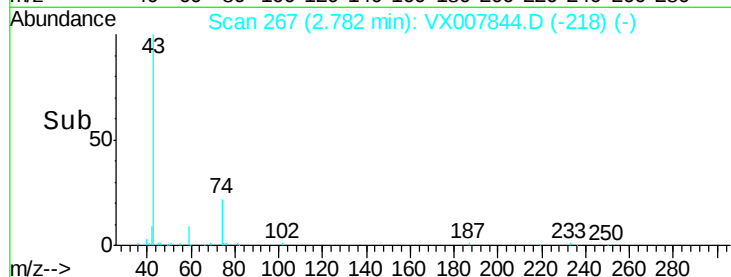
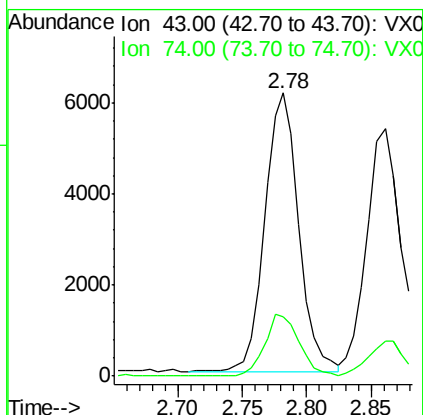
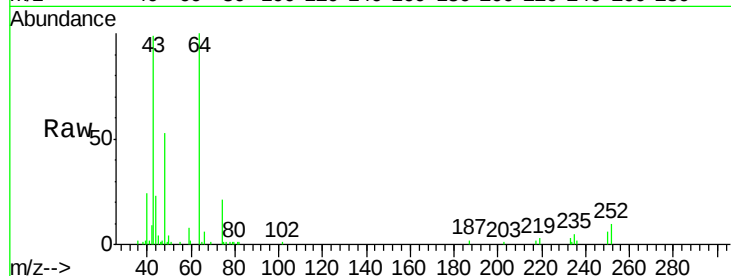




#18
Methyl Acetate
Concen: 2.981 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007844.D
Acq: 05 Mar 2019 18:21

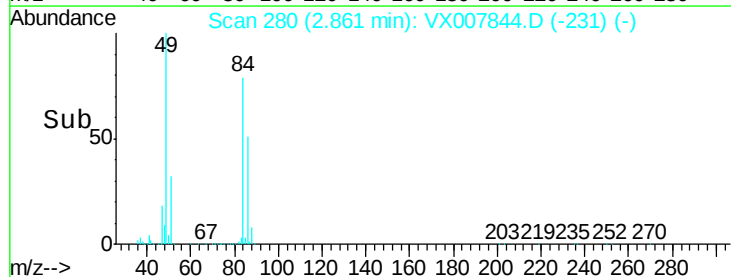
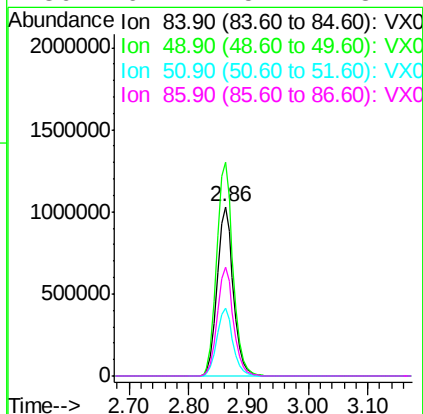
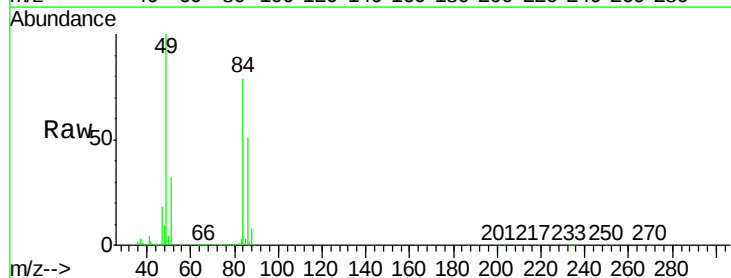
Instrument :
MSVOA_X
ClientSampleId :
S11

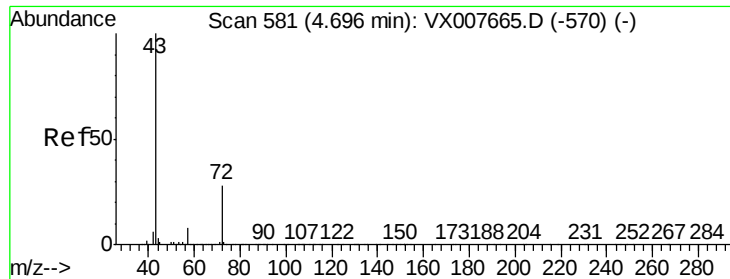
Tot Ion: 43 Resp: 11195
Ion Ratio Lower Upper
43 100
74 22.6 19.4 29.2



#20
Methylene Chloride
Concen: 604.215 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007844.D
Acq: 05 Mar 2019 18:21

Tgt Ion: 84 Resp: 1919939
Ion Ratio Lower Upper
84 100
49 126.4 94.8 142.2
51 39.8 29.8 44.8
86 64.4 54.1 81.1





#25

2-Butanone

Concen: 1.136 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

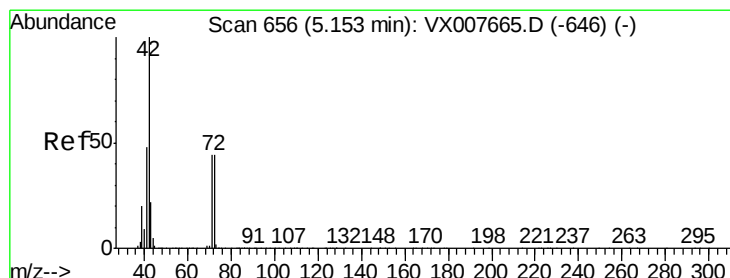
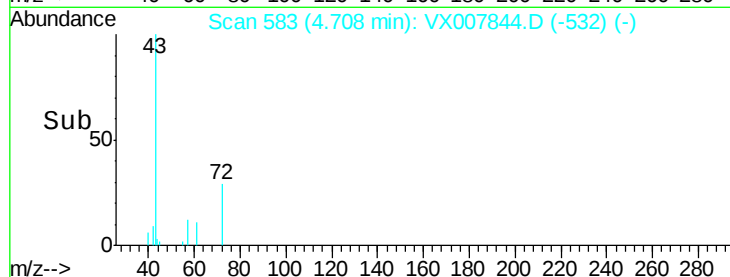
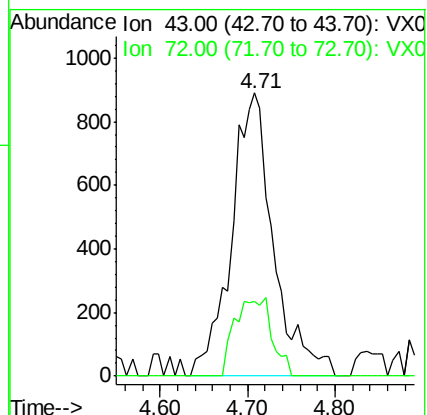
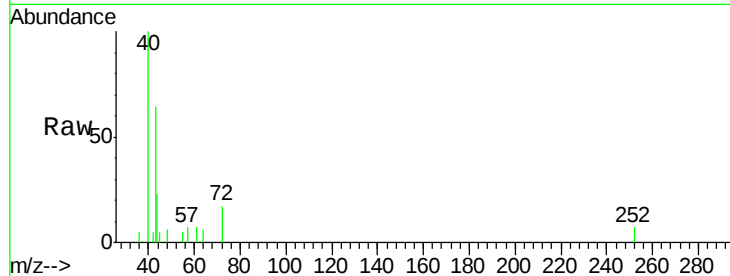
S11

Tot Ion: 43 Resp: 2979

Ion Ratio Lower Upper

43 100

72 26.5 22.2 33.2



#29

Tetrahydrofuran

Concen: 0.714 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

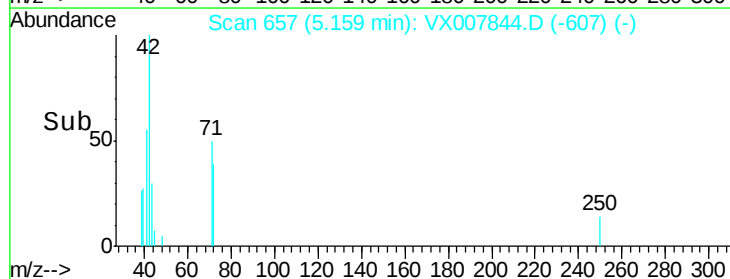
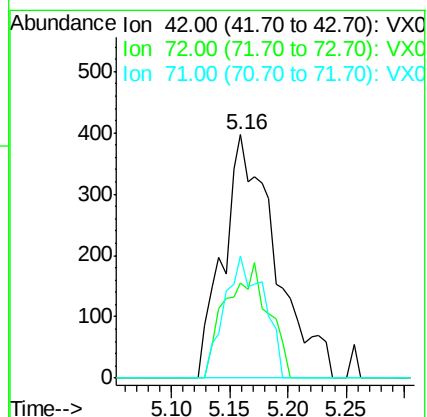
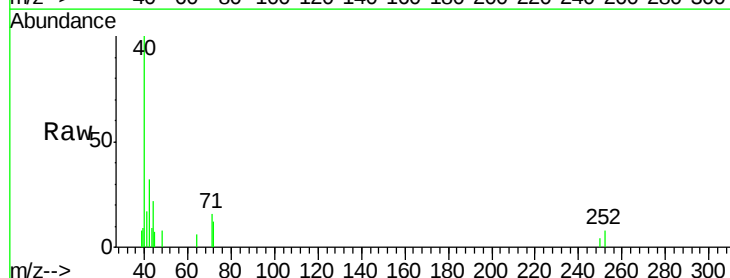
Tgt Ion: 42 Resp: 1234

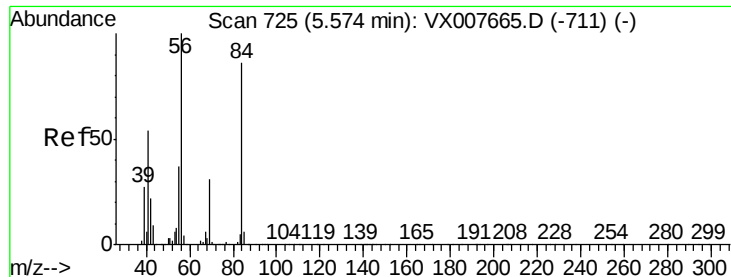
Ion Ratio Lower Upper

42 100

72 38.3 37.6 56.4

71 37.4 34.6 51.8

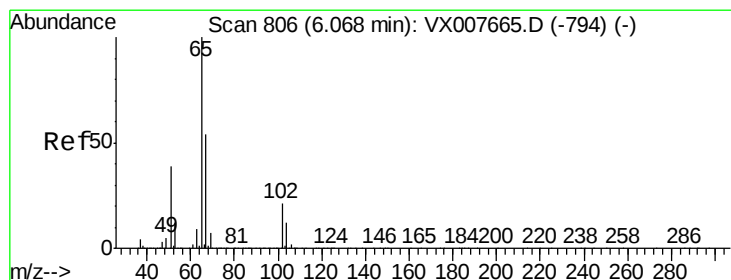
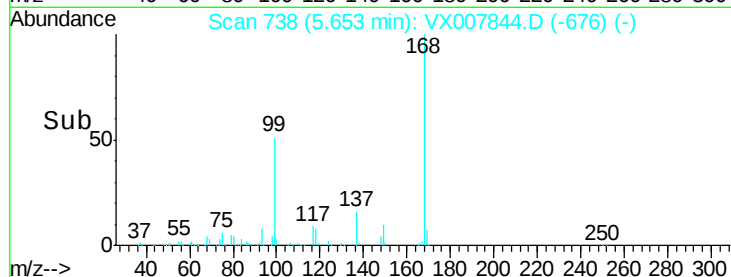
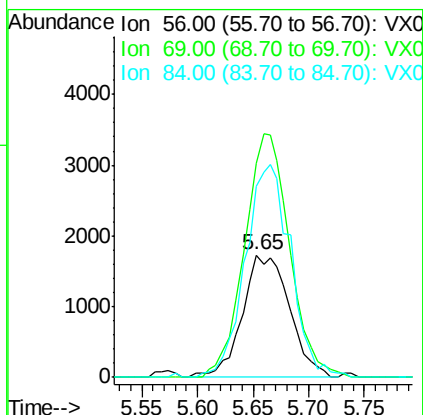
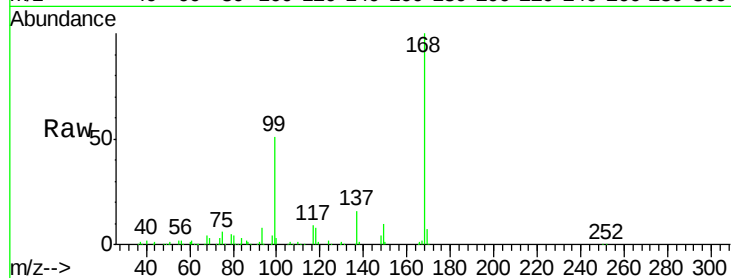




#31
Cyclohexane
Concen: 0.951 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX007844.D
Acq: 05 Mar 2019 18:21

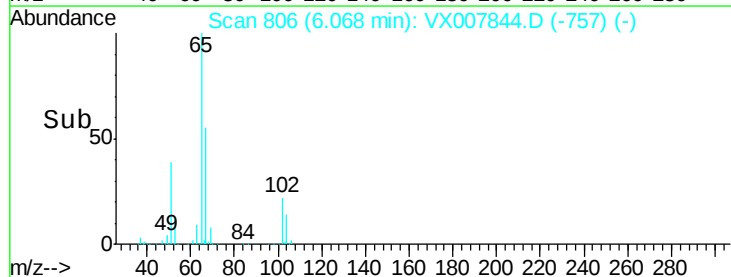
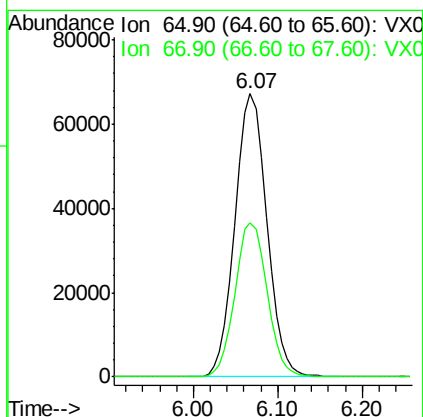
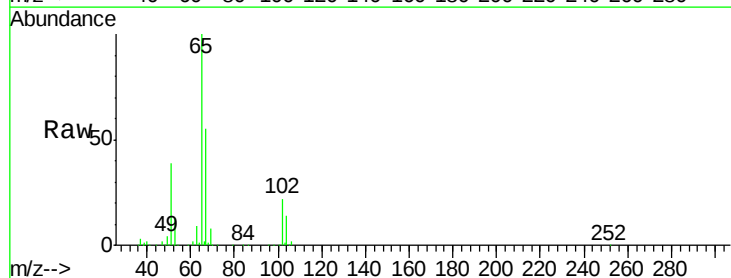
Instrument :
MSVOA_X
ClientSampled :
S11

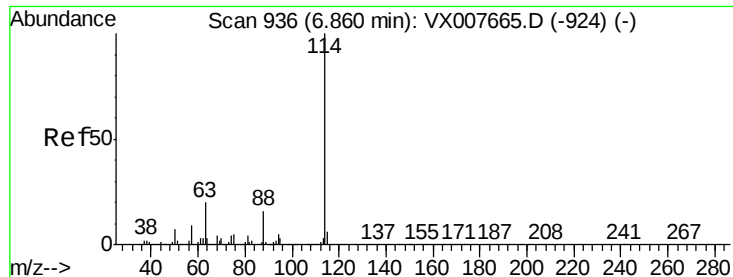
Tot Ion: 56 Resp: 5115
Ion Ratio Lower Upper
56 100
69 174.6 23.0 34.6#
84 156.1 69.8 104.6#



#33
1,2-Dichloroethane-d4
Concen: 44.615 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007844.D
Acq: 05 Mar 2019 18:21

Tgt Ion: 65 Resp: 172645
Ion Ratio Lower Upper
65 100
67 54.8 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampled :

S11

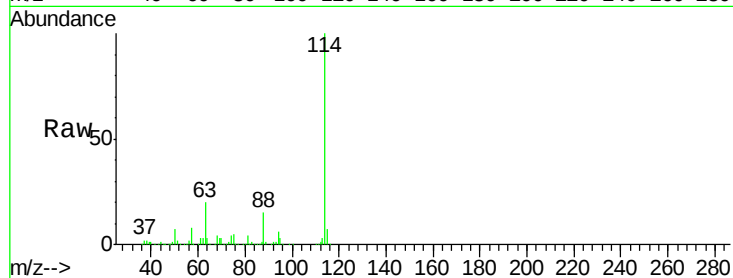
Tot Ion:114 Resp: 493450

Ion Ratio Lower Upper

114 100

63 19.6 0.0 35.6

88 15.3 0.0 29.6



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

250000

200000

150000

100000

50000

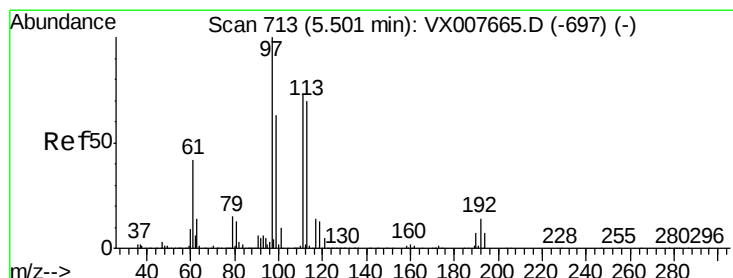
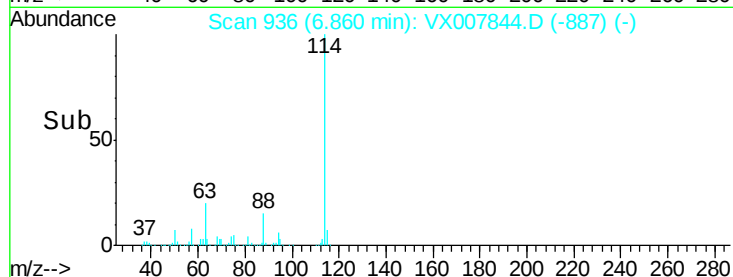
0

6.86

6.80

7.00

Time-->



#35

Dibromofluoromethane

Concen: 49.583 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

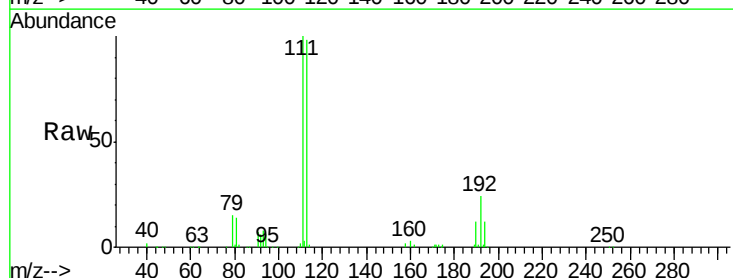
Tgt Ion:113 Resp: 163554

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.8

192 24.3 18.5 27.7



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

80000

60000

40000

20000

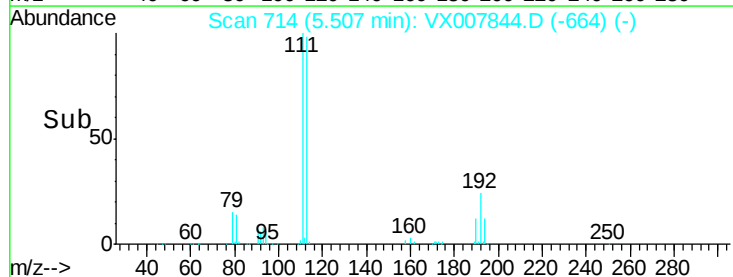
0

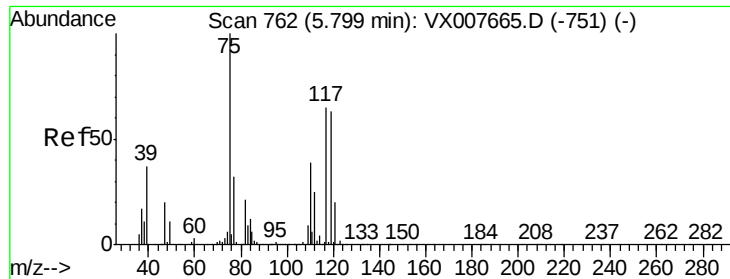
5.51

5.40

5.60

Time-->

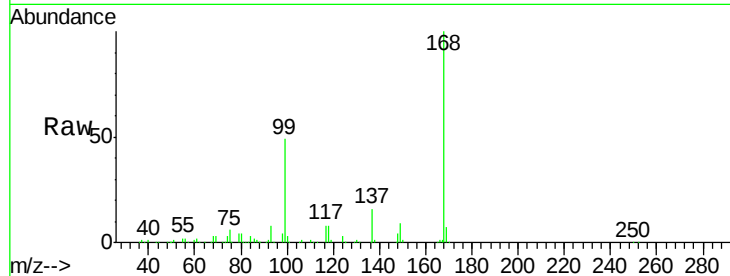




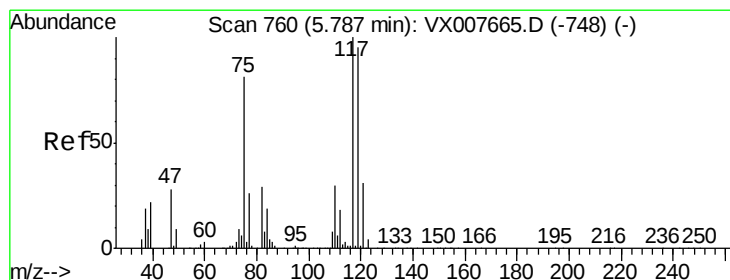
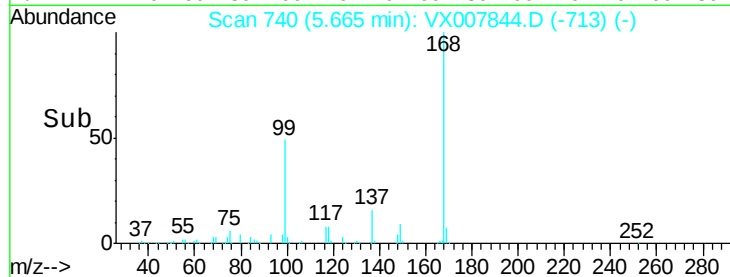
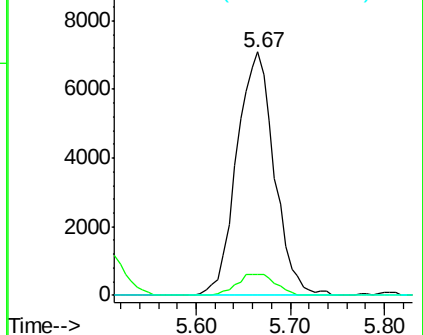
#36
 1,1-Dichloropropene
 Concen: 4.443 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Instrument :
 MSVOA_X
 ClientSampleId :
 S11

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	20.0	59.9#
77	0.0	24.7	37.1#

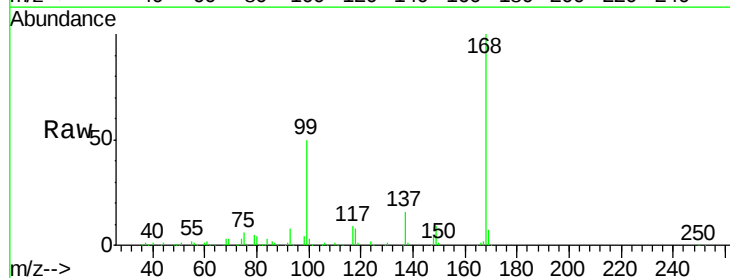


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

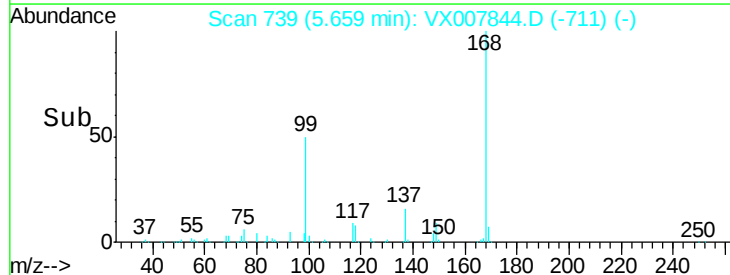
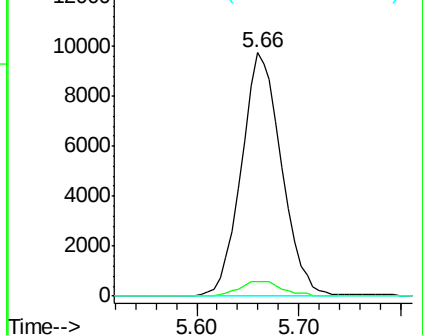


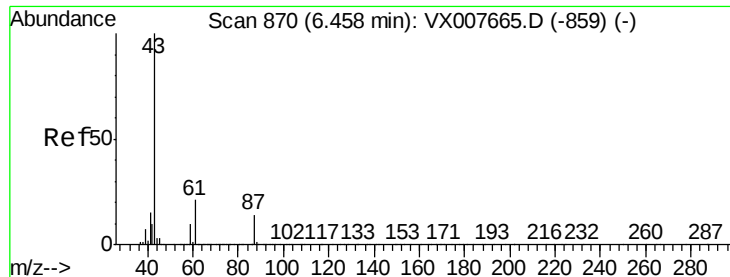
#38
 Carbon Tetrachloride
 Concen: 5.966 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	75.3	112.9#
121	0.0	25.0	37.4#



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



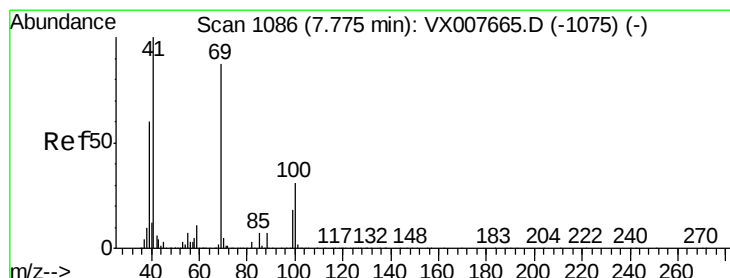
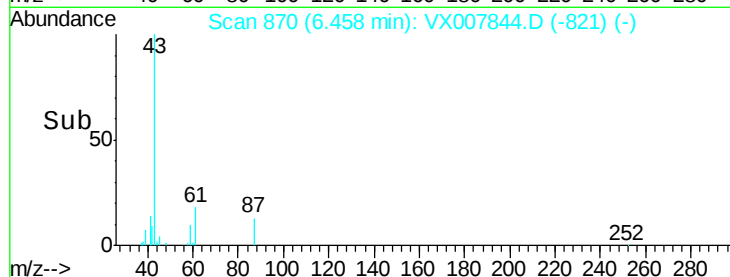
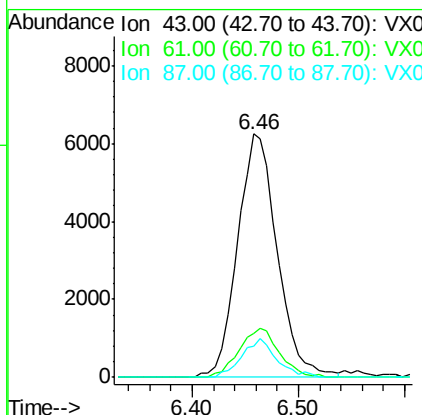
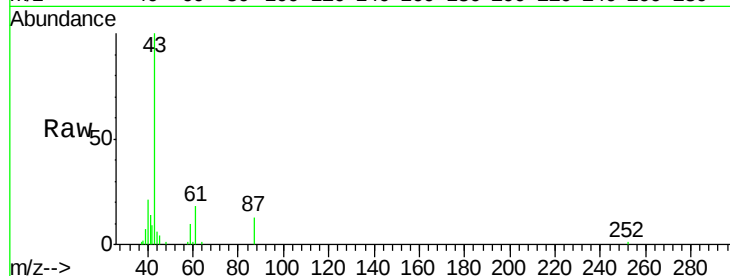


#43

Isopropyl Acetate
 Concen: 2.154 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. 0.00 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Instrument :
 MSVOA_X
 ClientSampled :
 S11

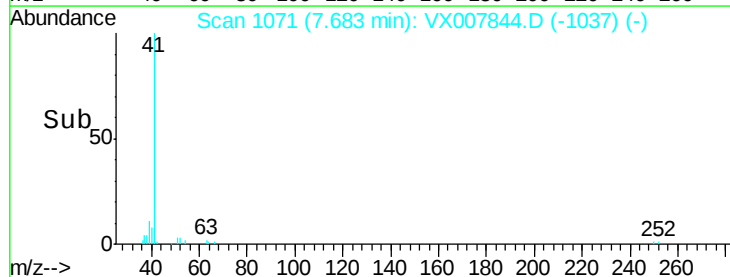
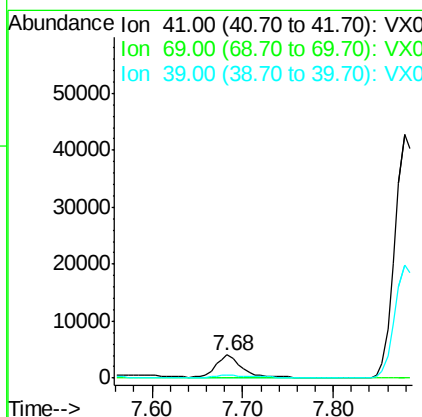
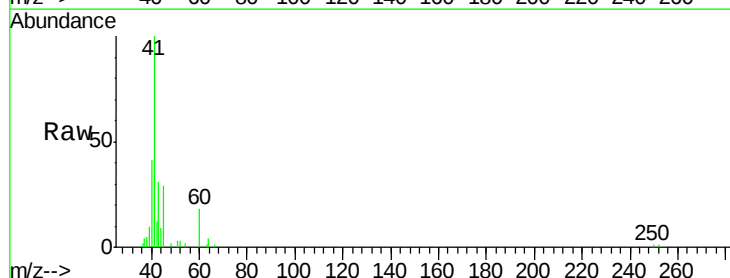
Tot Ion	43	Resp	16336
Ion Ratio	Lower	Upper	
43	100		
61	20.4	16.1	24.1
87	13.8	11.5	17.3

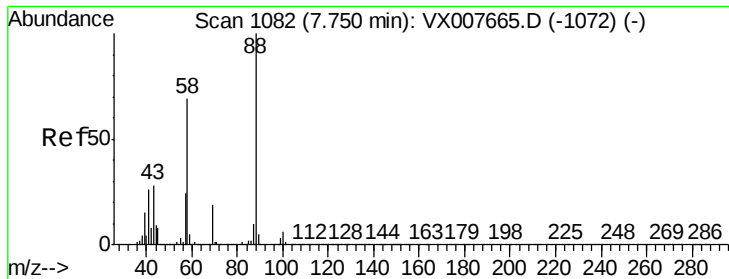


#48

Methyl methacrylate
 Concen: 2.027 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Tgt Ion	41	Resp	8058
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	14.2	47.4	71.0#





#49

1,4-Dioxane

Concen: 1.351 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.12 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

S11

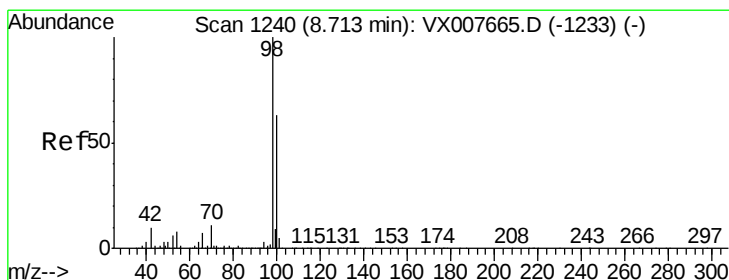
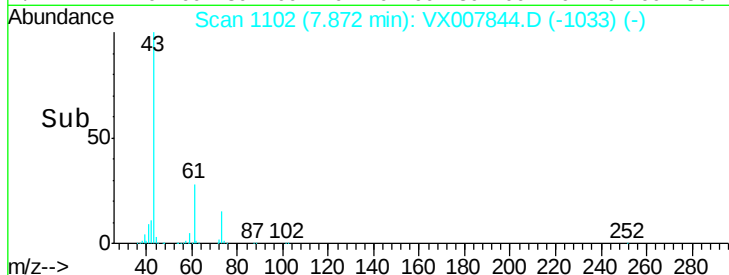
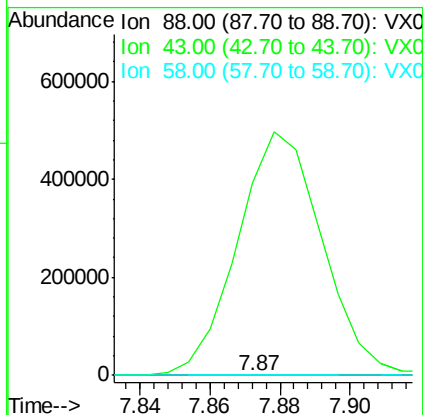
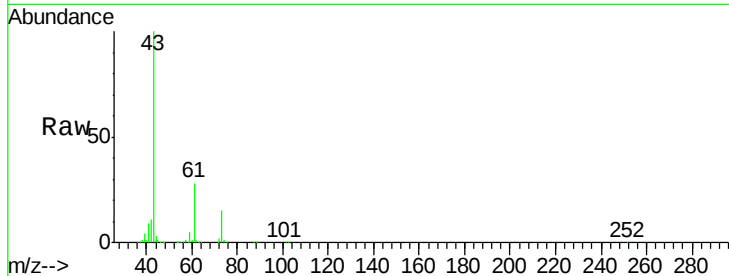
Tot Ion: 88 Resp: 116

Ion Ratio Lower Upper

88 100

43 728109.5 24.2 36.4#

58 3279.3 53.0 79.4#



#50

Toluene-d8

Concen: 47.590 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007844.D

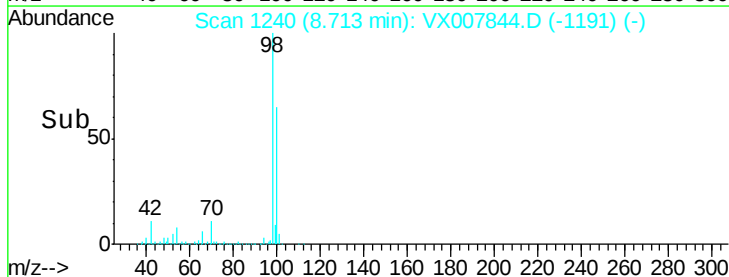
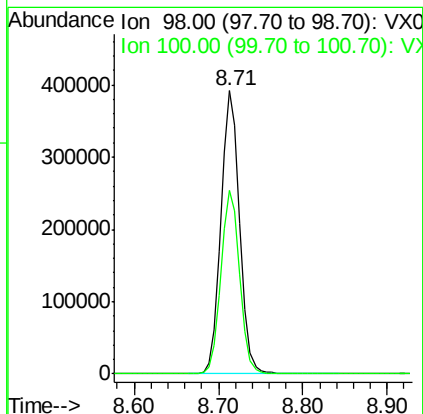
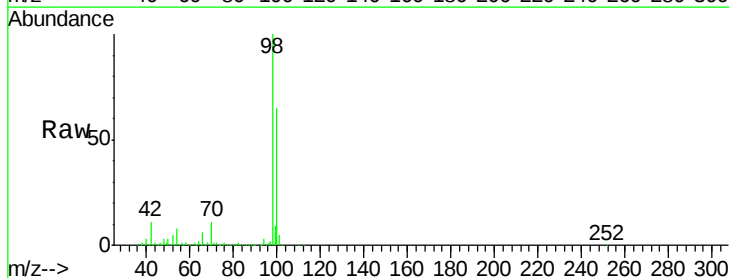
Acq: 05 Mar 2019 18:21

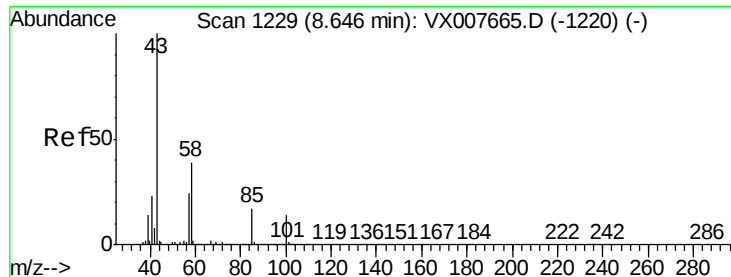
Tgt Ion: 98 Resp: 600967

Ion Ratio Lower Upper

98 100

100 65.0 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 11.548 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

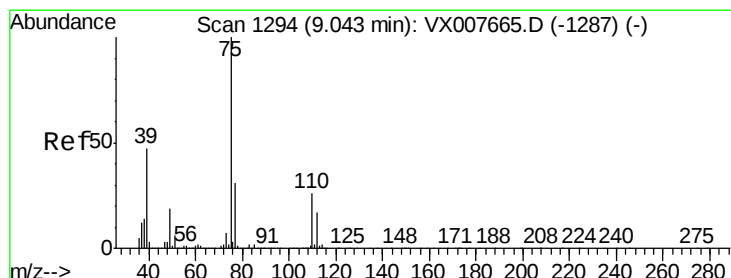
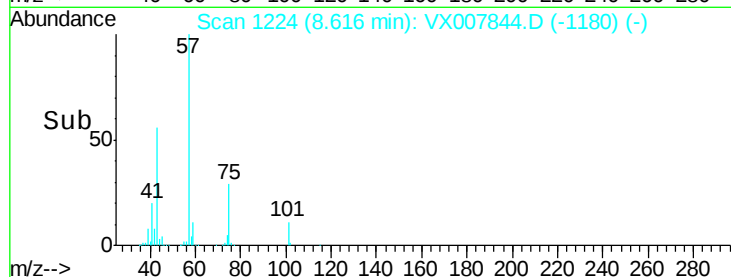
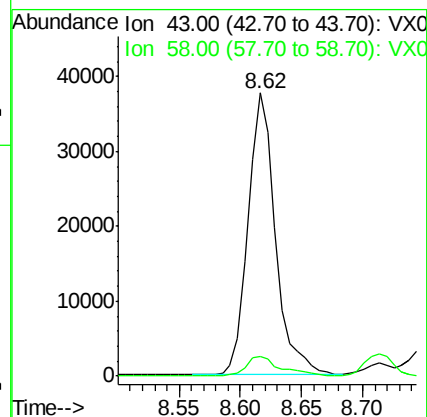
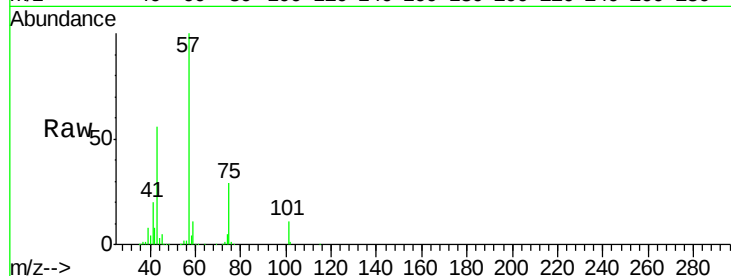
S11

Tot Ion: 43 Resp: 58630

Ion Ratio Lower Upper

43 100

58 8.9 31.2 46.8#



#53

t-1,3-Dichloropropene

Concen: 2.810 ug/l

RT: 9.02 min Scan# 1291

Delta R.T. -0.02 min

Lab File: VX007844.D

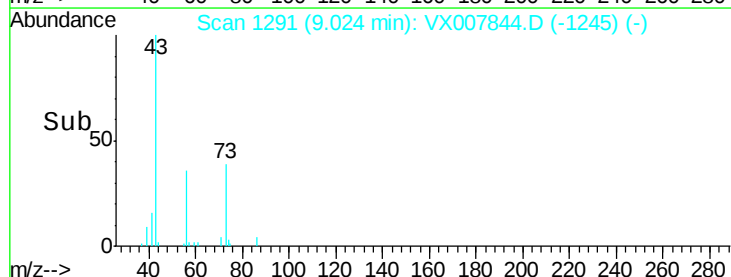
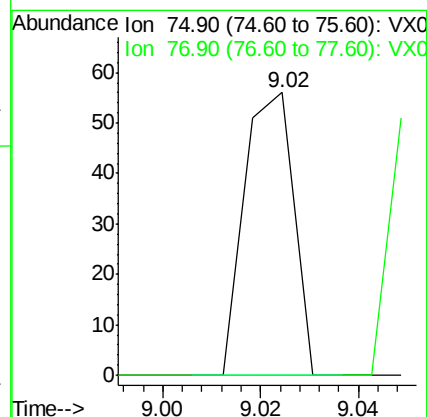
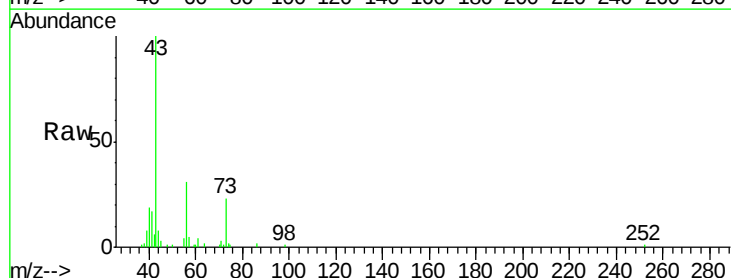
Acq: 05 Mar 2019 18:21

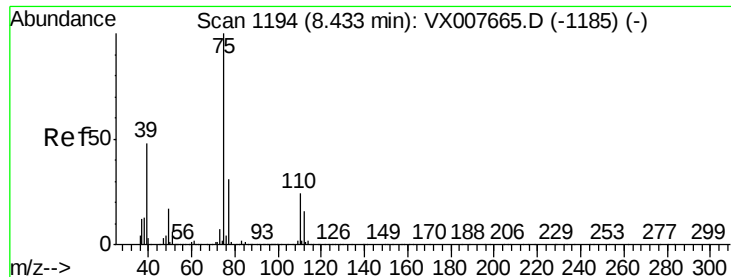
Tgt Ion: 75 Resp: 39

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#



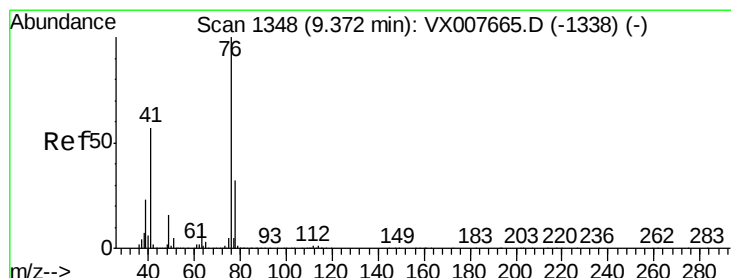
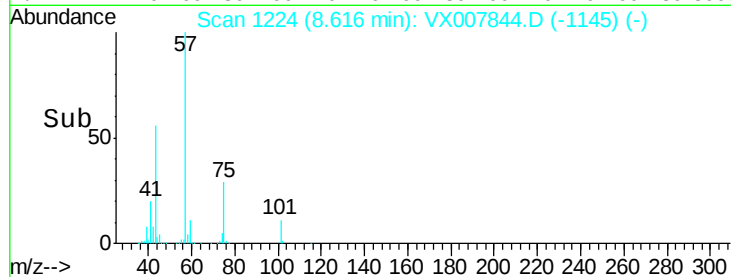
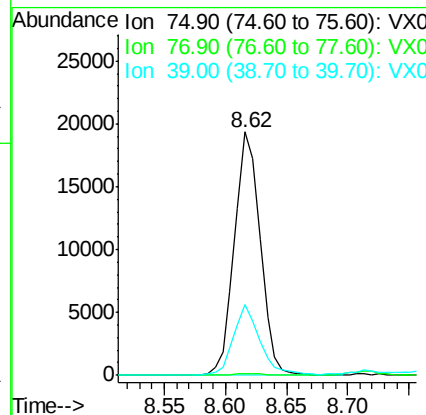
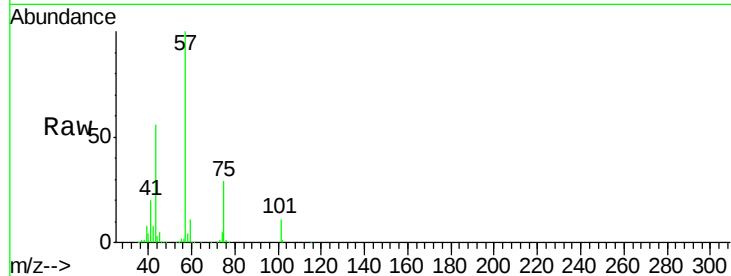


#54

cis-1,3-Dichloropropene
 Concen: 5.416 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Instrument :
 MSVOA_X
 ClientSampled :
 S11

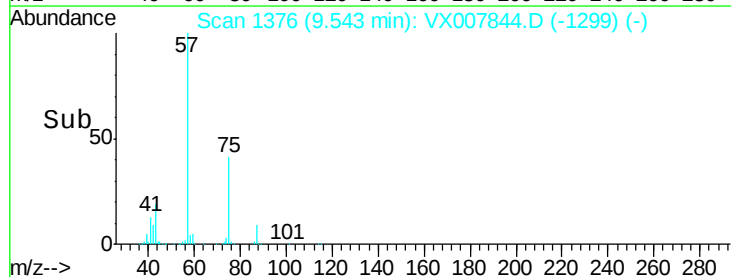
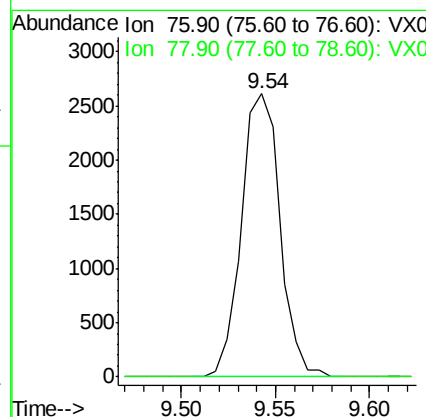
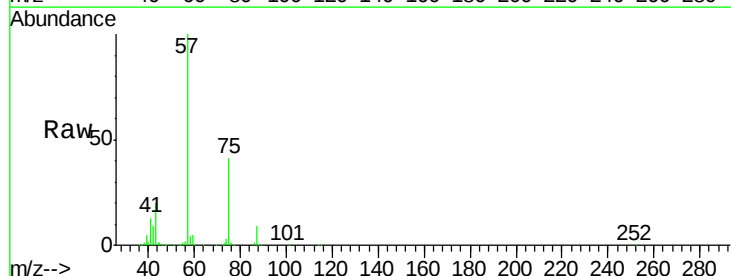
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.6	26.2	39.4#
39	29.3	37.1	55.7#

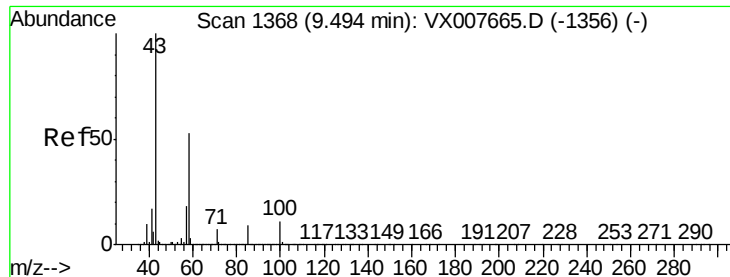


#57

1,3-Dichloropropane
 Concen: 0.643 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX007844.D
 Acq: 05 Mar 2019 18:21

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#

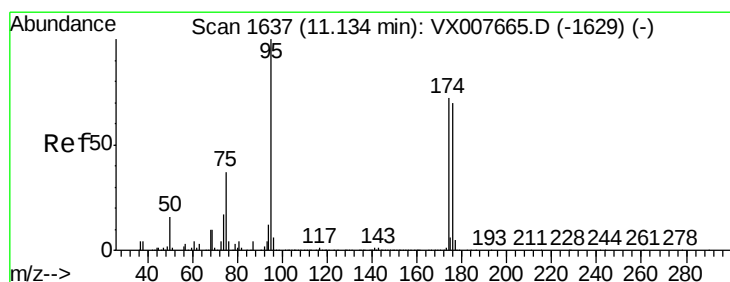
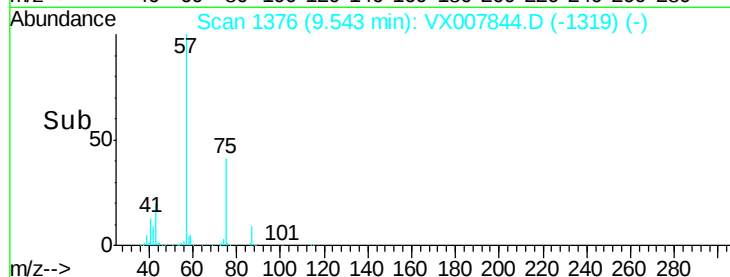
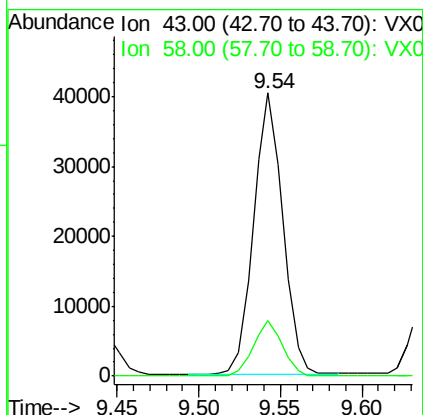
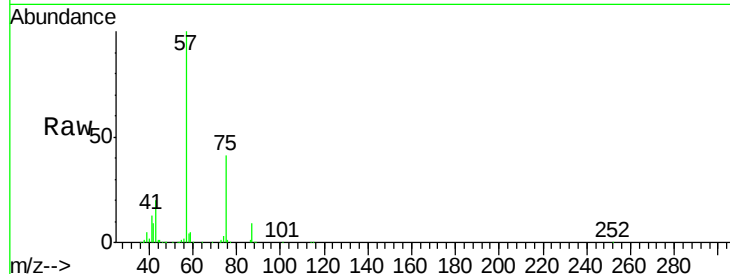




#59
2-Hexanone
Concen: 12.672 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007844.D
Acq: 05 Mar 2019 18:21

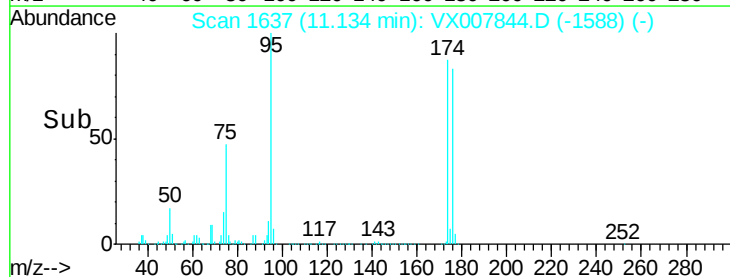
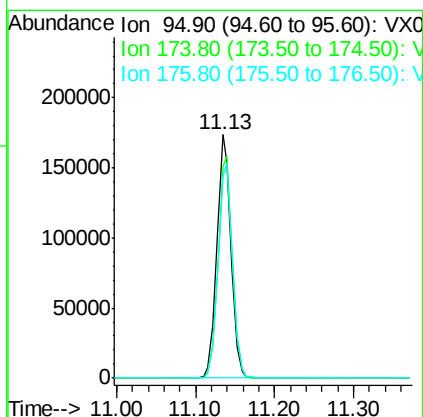
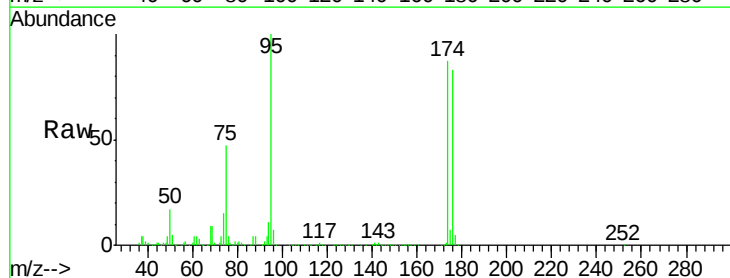
Instrument :
MSVOA_X
ClientSampleId :
S11

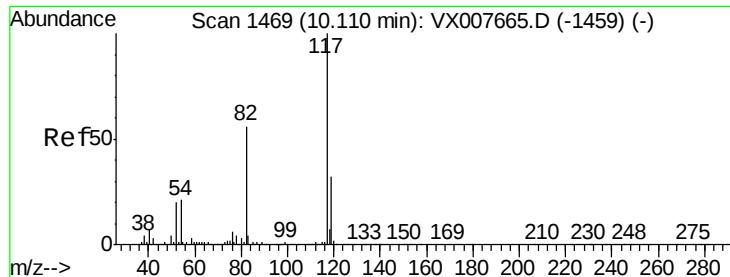
Tot Ion: 43 Resp: 50509
Ion Ratio Lower Upper
43 100
58 20.1 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 46.664 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007844.D
Acq: 05 Mar 2019 18:21

Tgt Ion: 95 Resp: 216288
Ion Ratio Lower Upper
95 100
174 92.7 0.0 189.2
176 89.8 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

S11

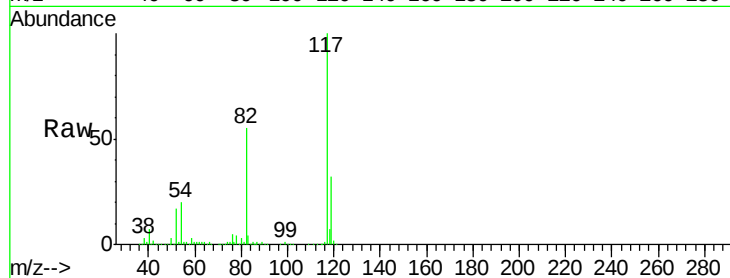
Tot Ion:117 Resp: 467925

Ion Ratio Lower Upper

117 100

82 55.4 42.1 63.1

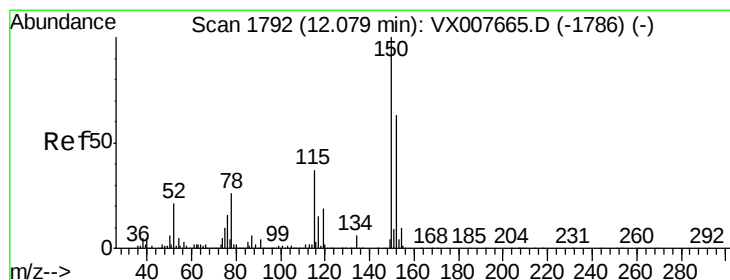
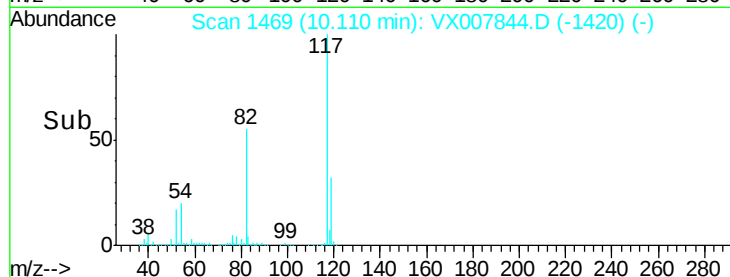
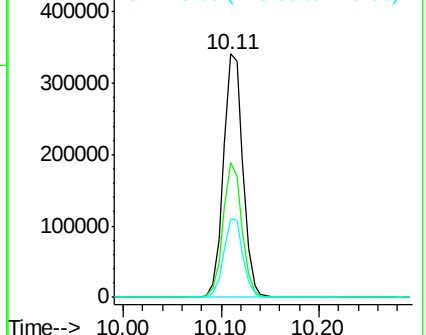
119 32.0 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX007844.D

Acq: 05 Mar 2019 18:21

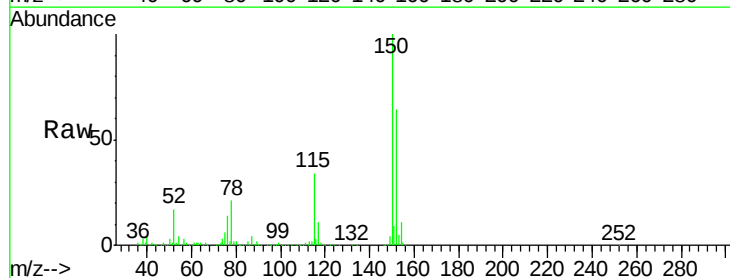
Tgt Ion:152 Resp: 219293

Ion Ratio Lower Upper

152 100

115 55.5 38.0 114.0

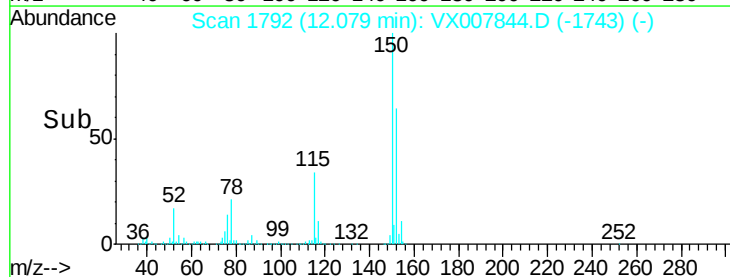
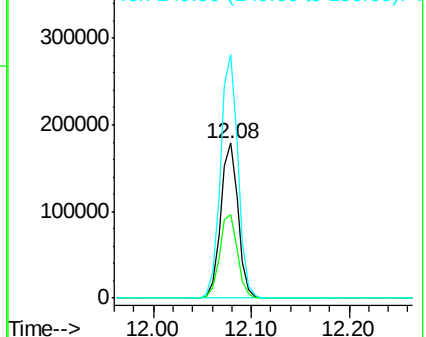
150 157.9 0.0 346.4

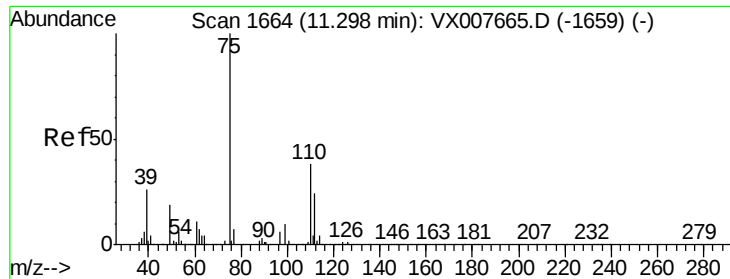


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.410 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

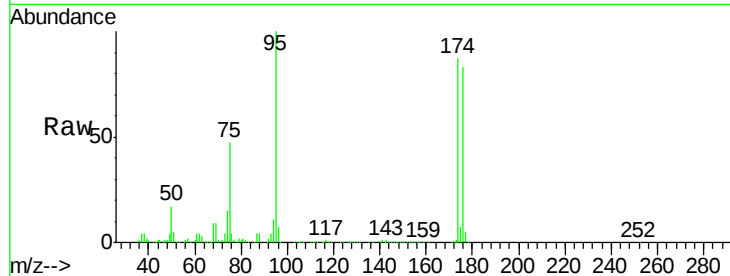
S11

Tot Ion: 75 Resp: 100077

Ion Ratio Lower Upper

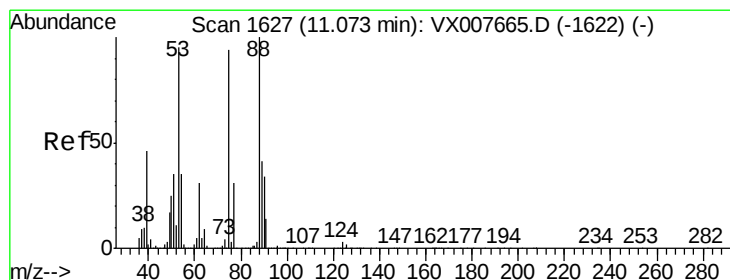
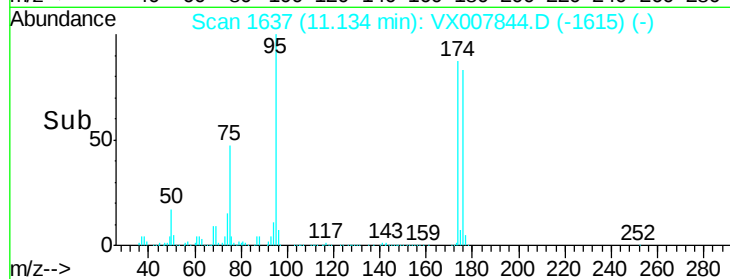
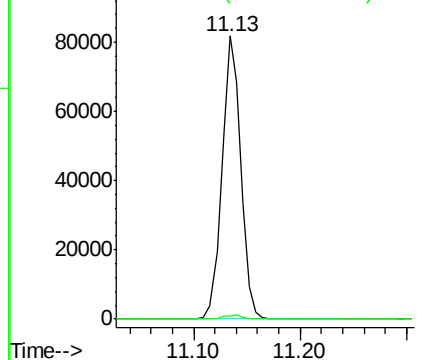
75 100

77 1.4 23.0 69.0#



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: 56.929 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

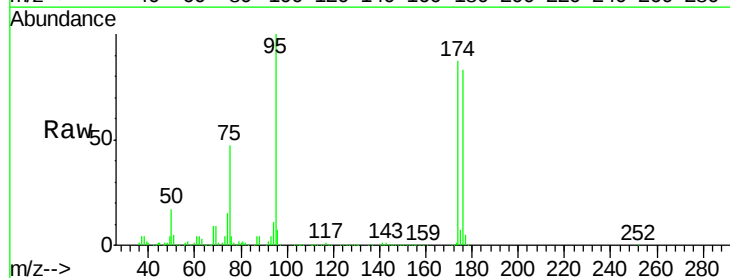
Tgt Ion: 75 Resp: 100077

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

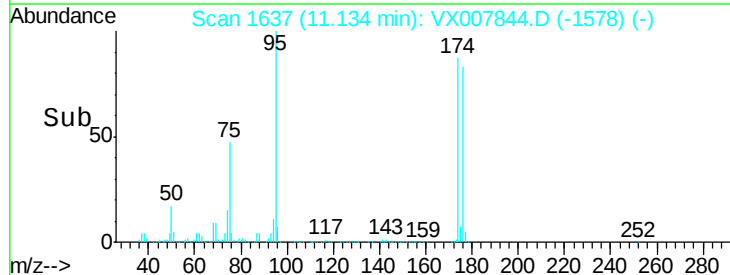
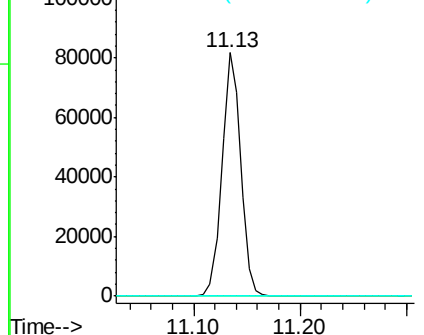
89 0.0 41.4 62.0#

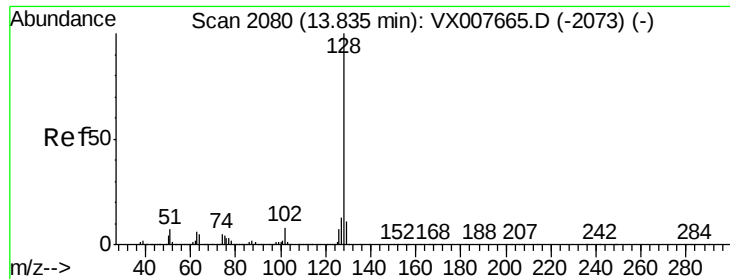


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.131 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007844.D

Acq: 05 Mar 2019 18:21

Instrument :

MSVOA_X

ClientSampleId :

S11

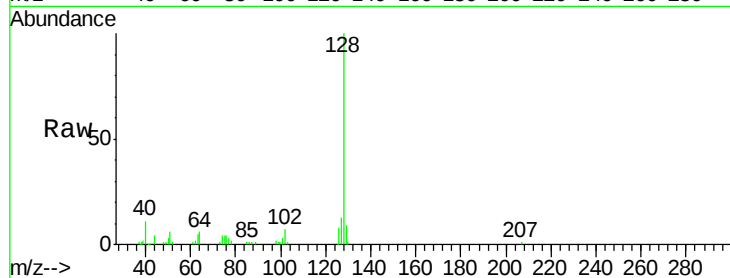
Tot Ion:128 Resp: 16323

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 10.4 8.7 13.1



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

