

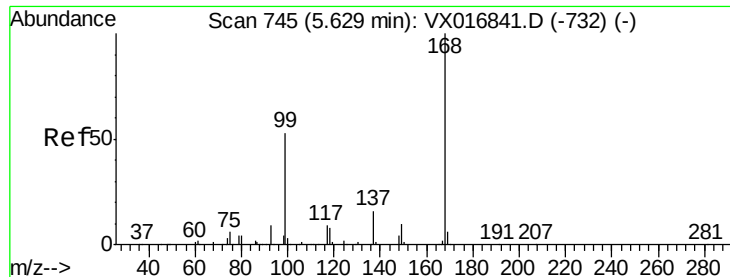
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX061820\
 Data File : VX016865.D
 Acq On : 19 Jun 2020 02:11
 Operator : JC/SP
 Sample : L3046-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ISS-B-C

Quant Time: Jun 19 04:05:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 18 15:20:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	239456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	433163	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	392670	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	238868	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	135620	47.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.18%	
35) Dibromofluoromethane	5.46	113	133778	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
50) Toluene-d8	8.70	98	466694	42.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.20%	
62) 4-Bromofluorobenzene	11.12	95	194199	45.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.44%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	78	Below Cal	#	43
5) Bromomethane	1.61	94	66	Below Cal	#	53
11) Tert butyl alcohol	3.01	59	1407	2.890	ug/l #	77
13) Acrolein	2.27	56	284	0.962	ug/l	90
16) Acetone	2.42	43	13098	Below Cal		93
18) Methyl Acetate	2.75	43	2323	0.874	ug/l	99
20) Methylene Chloride	2.84	84	6588	2.628	ug/l	94
25) 2-Butanone	4.65	43	6226	4.327	ug/l	90
29) Tetrahydrofuran	5.11	42	881	0.972	ug/l #	70
31) Cyclohexane	5.63	56	4013	1.127	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	16104	4.026	ug/l #	48
38) Carbon Tetrachloride	5.63	117	22586	5.033	ug/l #	17
43) Isopropyl Acetate	6.41	43	41122	6.664	ug/l	99
48) Methyl methacrylate	7.65	41	3999	1.376	ug/l #	12
49) 1,4-Dioxane	7.86	88	207	3.182	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	40005	10.778	ug/l #	44
54) cis-1,3-Dichloropropene	8.59	75	19720	3.853	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	3269	0.642	ug/l #	43
59) 2-Hexanone	9.42	43	36755	3.760	ug/l #	21
73) Isopropylbenzene	11.01	105	414	Below Cal		78
74) N-amyl acetate	10.80	43	2422	0.451	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	93993	21.187	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	712	0.257	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	93993	52.762	ug/l #	14
89) n-Butylbenzene	12.37	91	1362	3.110	ug/l	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016865.D

Acq: 19 Jun 2020 02:11

Instrument :

MSVOA_X

ClientSampleId :

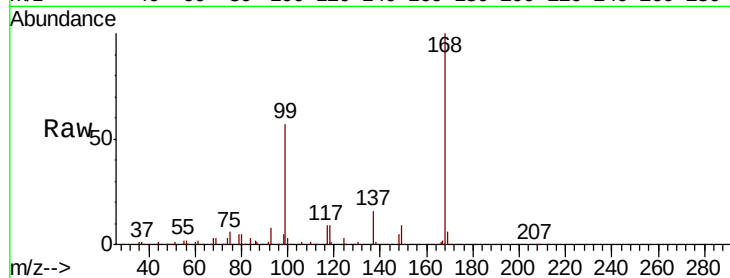
ISS-B-C

Tot Ion:168 Resp: 239456

Ion Ratio Lower Upper

168 100

99 57.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

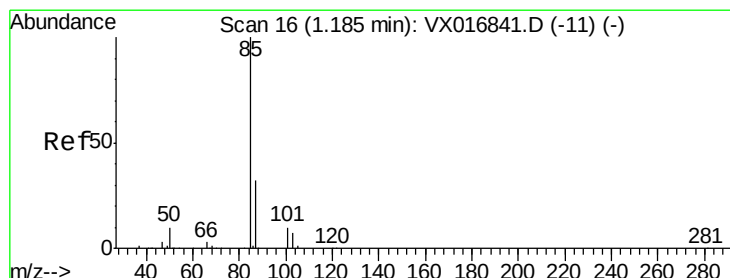
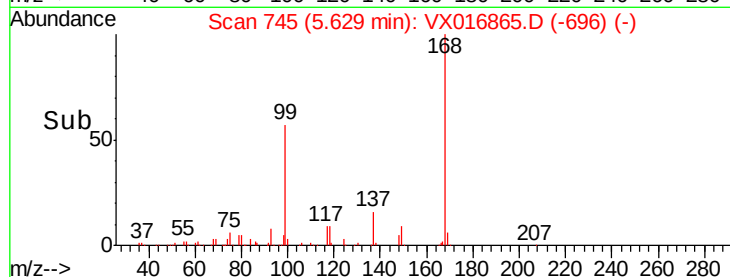
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX016865.D

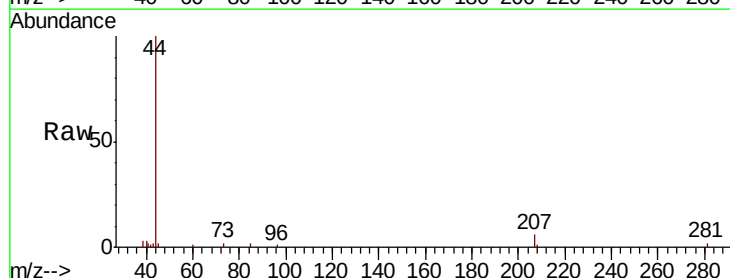
Acq: 19 Jun 2020 02:11

Tgt Ion: 85 Resp: 78

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

100

80

60

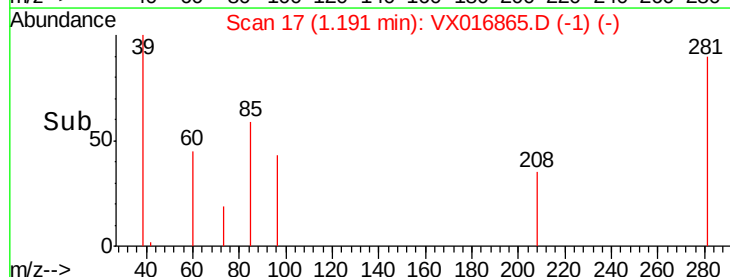
40

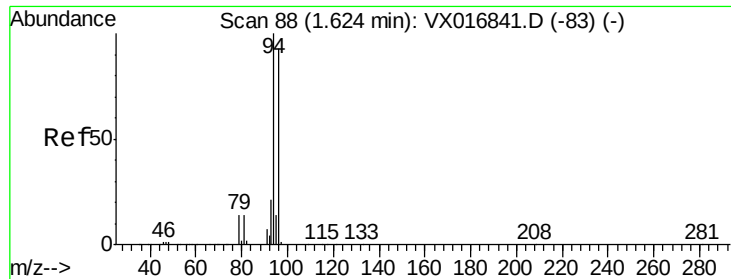
20

0

Time-->

1.16 1.18 1.20





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX016865.D

Acq: 19 Jun 2020 02:11

Instrument :

MSVOA_X

ClientSampleId :

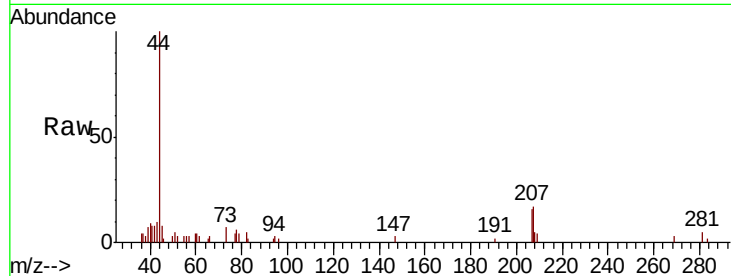
ISS-B-C

Tot Ion: 94 Resp: 66

Ion Ratio Lower Upper

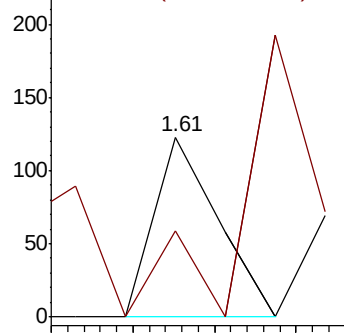
94 100

96 48.0 74.4 111.6#

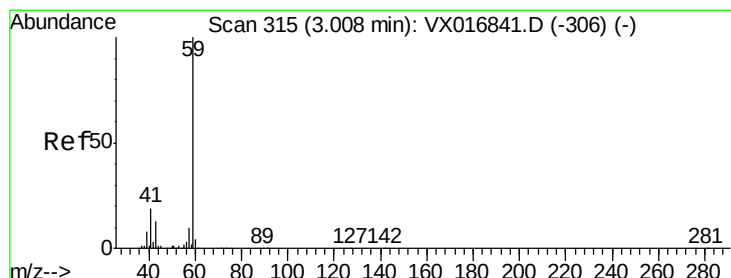
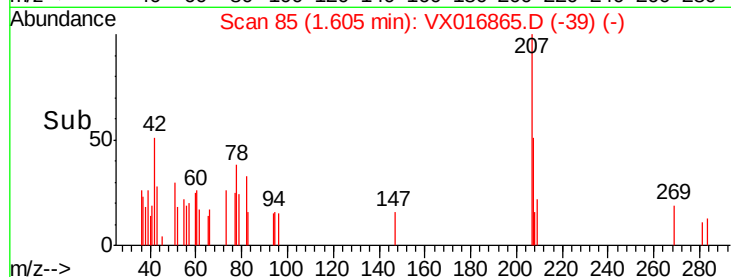


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time--> 1.59 1.60 1.61 1.62



#11

Tert butyl alcohol

Concen: 2.890 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.00 min

Lab File: VX016865.D

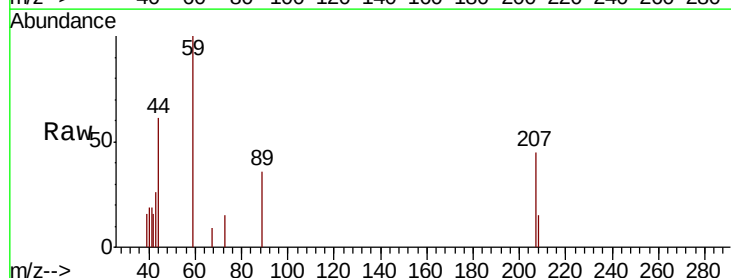
Acq: 19 Jun 2020 02:11

Tgt Ion: 59 Resp: 1407

Ion Ratio Lower Upper

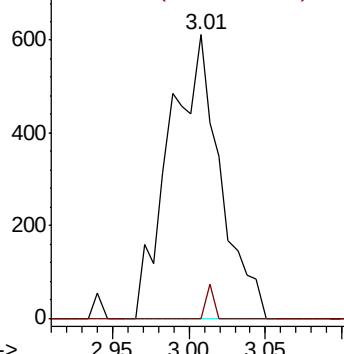
59 100

57 1.9 8.4 12.6#

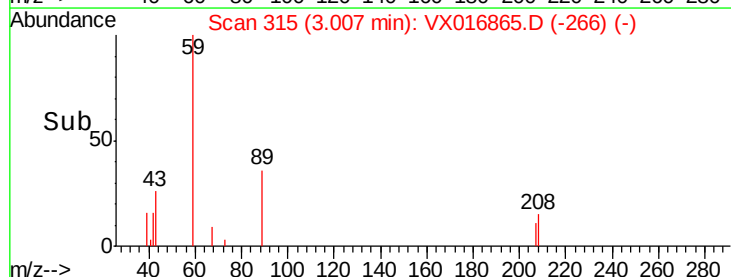


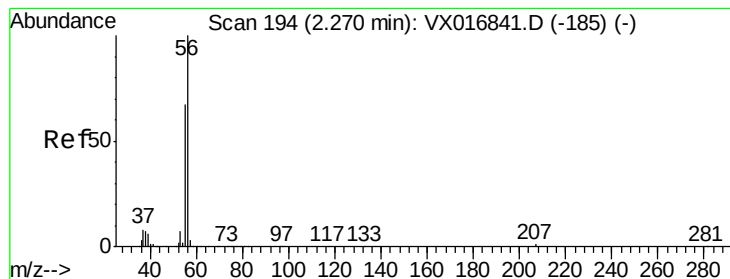
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time--> 2.95 3.00 3.05





#13

Acrolein

Concen: 0.962 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016865.D

Acq: 19 Jun 2020 02:11

Instrument :

MSVOA_X

ClientSampleId :

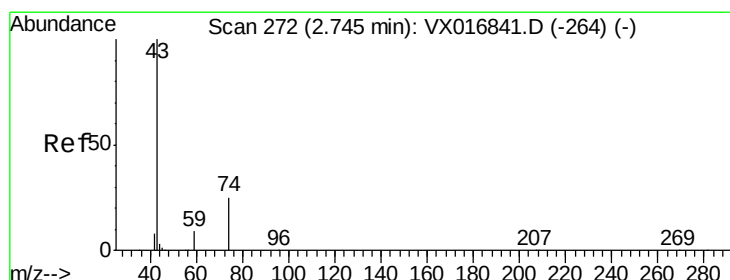
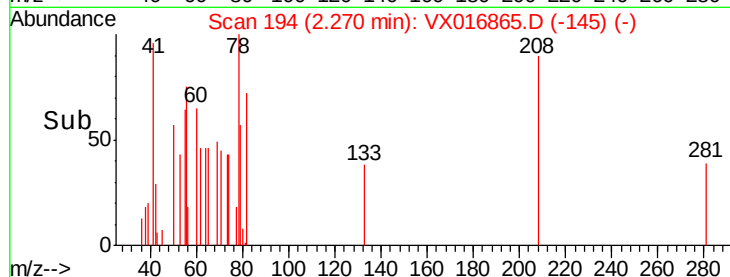
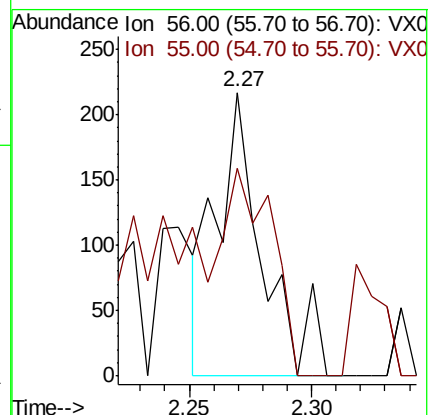
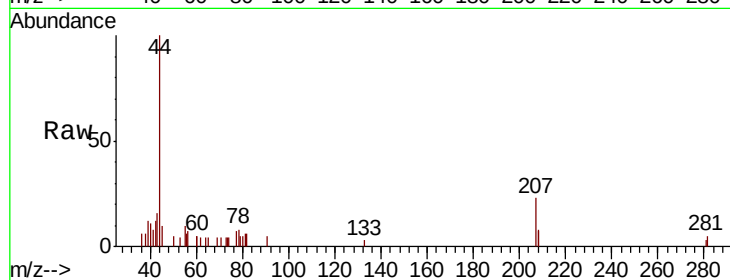
ISS-B-C

Tot Ion: 56 Resp: 284

Ion Ratio Lower Upper

56 100

55 77.8 55.7 83.5



#18

Methyl Acetate

Concen: 0.874 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX016865.D

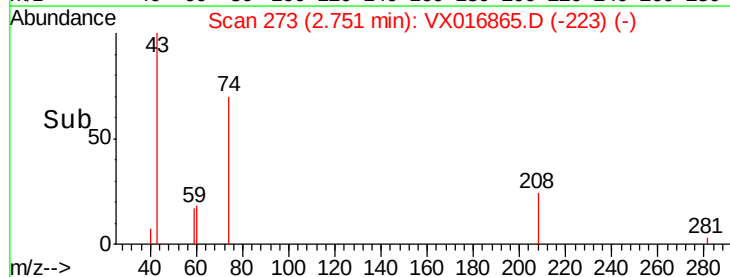
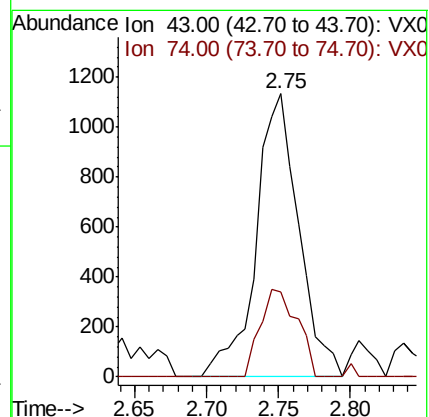
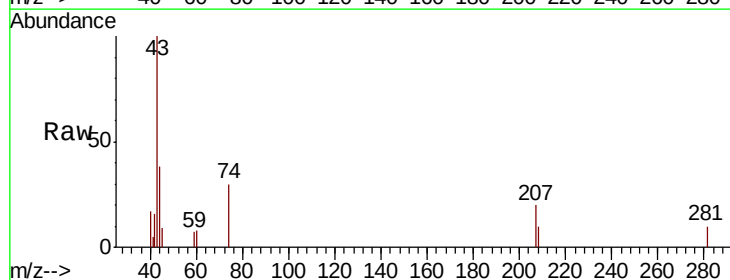
Acq: 19 Jun 2020 02:11

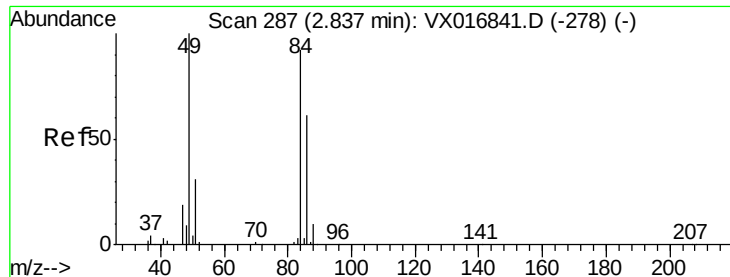
Tgt Ion: 43 Resp: 2323

Ion Ratio Lower Upper

43 100

74 26.8 21.8 32.8

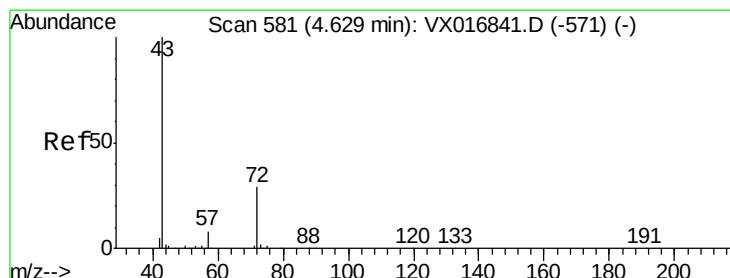
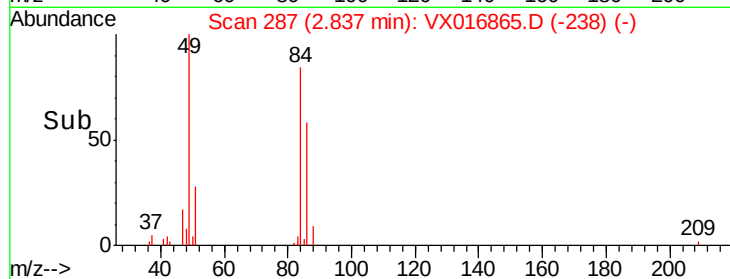
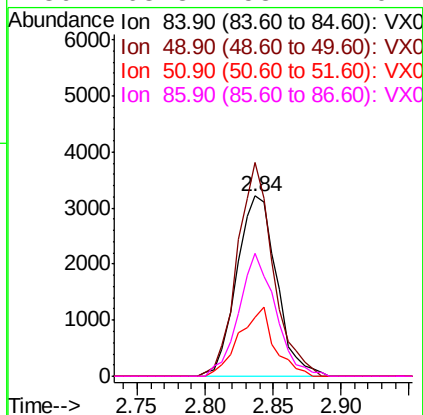
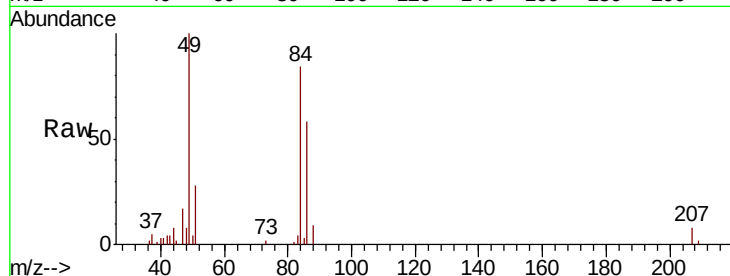




#20
Methvlene Chloride
Concen: 2.628 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

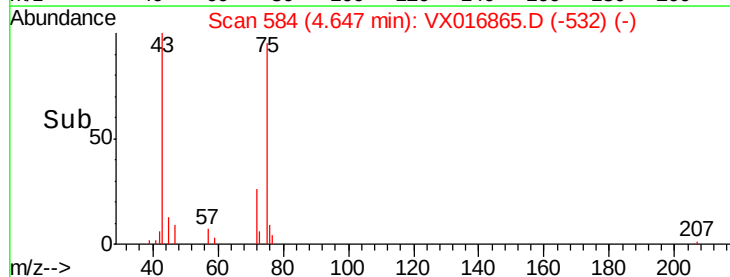
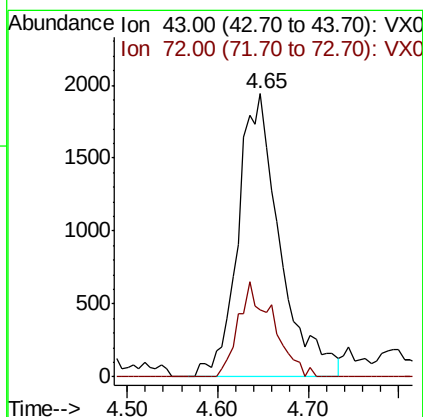
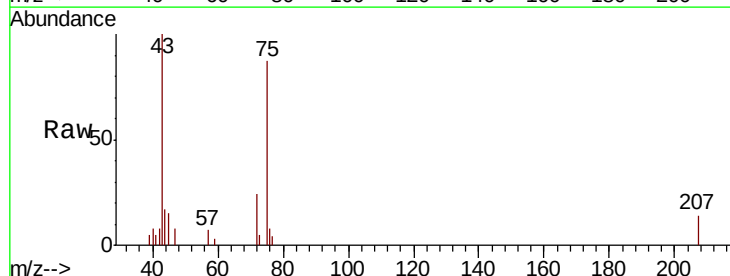
Instrument :
MSVOA_X
ClientSampleId :
ISS-B-C

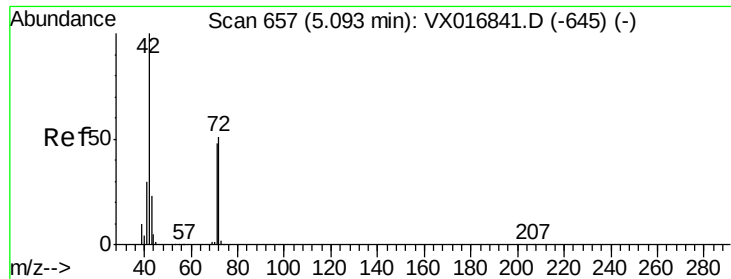
Tot Ion:	84	Resp:	6588
Ion	Ratio	Lower	Upper
84	100		
49	118.7	86.6	129.8
51	32.8	27.1	40.7
86	68.3	53.1	79.7



#25
2-Butanone
Concen: 4.327 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion:	43	Resp:	6226
Ion	Ratio	Lower	Upper
43	100		
72	23.9	23.5	35.3

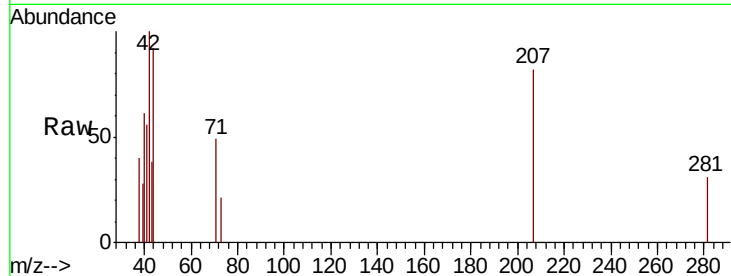




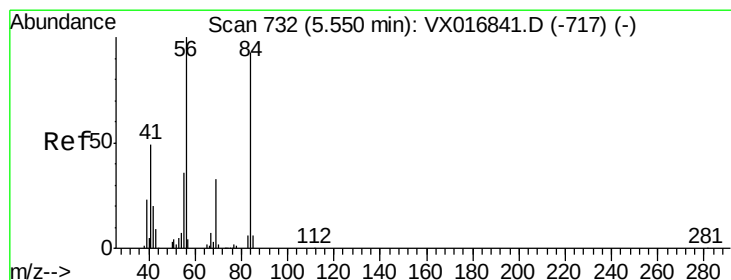
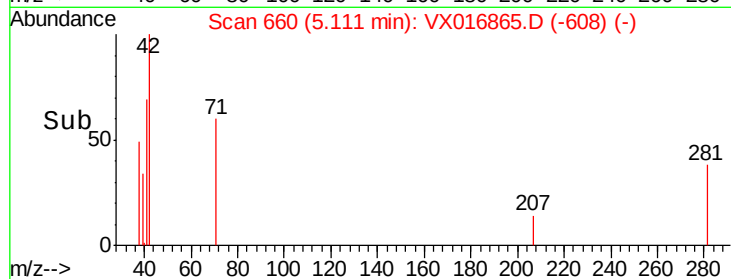
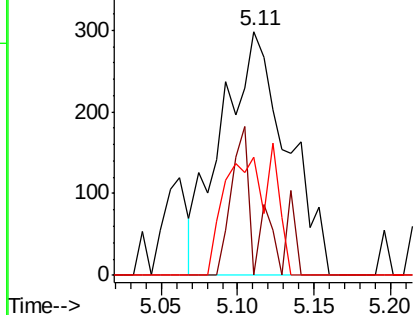
#29
Tetrahydrofuran
Concen: 0.972 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Instrument :
MSVOA_X
ClientSampleId :
ISS-B-C

Tot Ion	Ratio	Lower	Upper
42	100		
72	21.7	41.1	61.7#
71	37.3	38.4	57.6#

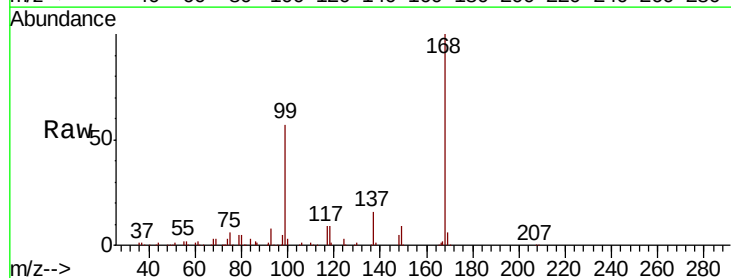


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

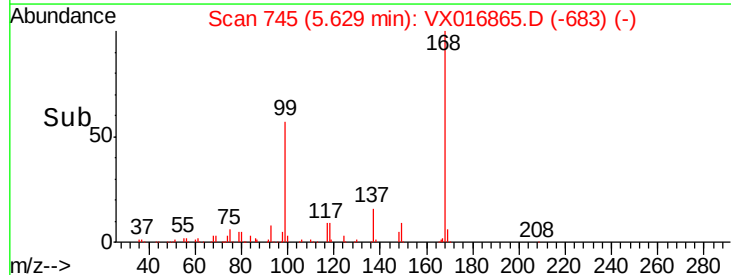
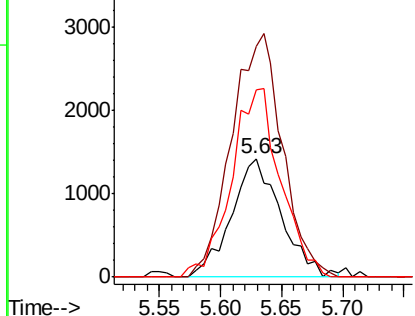


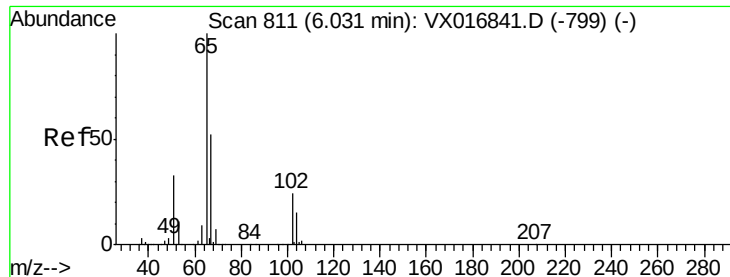
#31
Cyclohexane
Concen: 1.127 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion	Ratio	Lower	Upper
56	100		
69	194.8	26.1	39.1#
84	158.1	73.0	109.6#



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

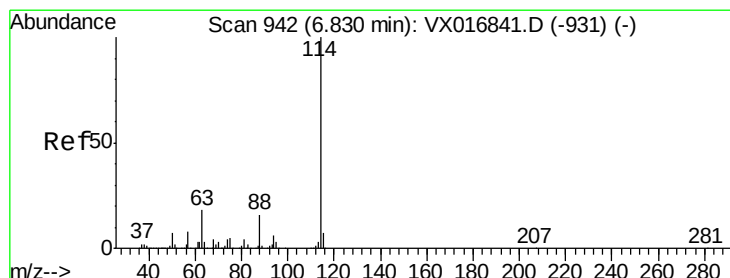
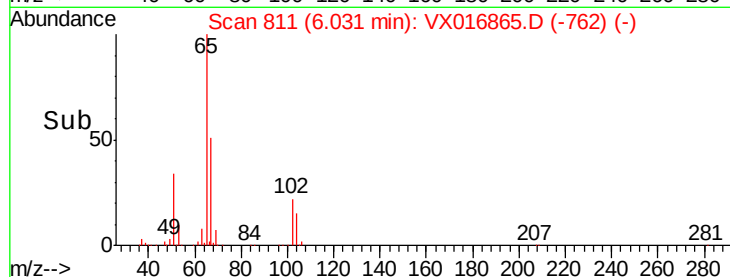
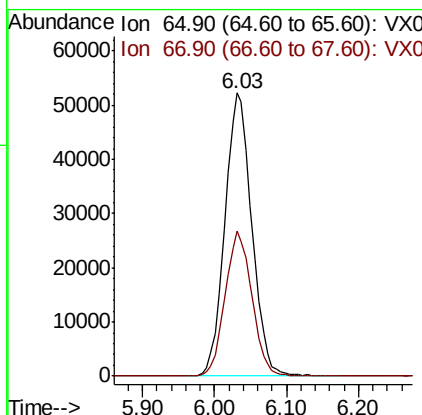
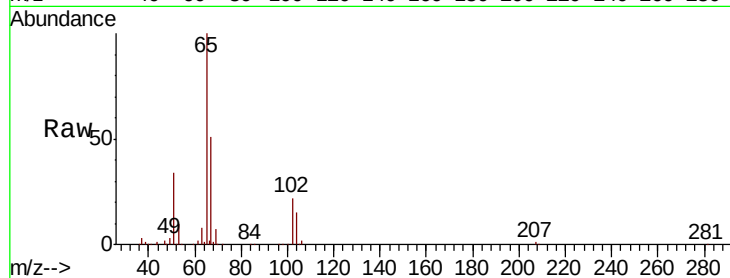




#33
 1,2-Dichloroethane-d4
 Concen: 47.092 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016865.D
 Acq: 19 Jun 2020 02:11

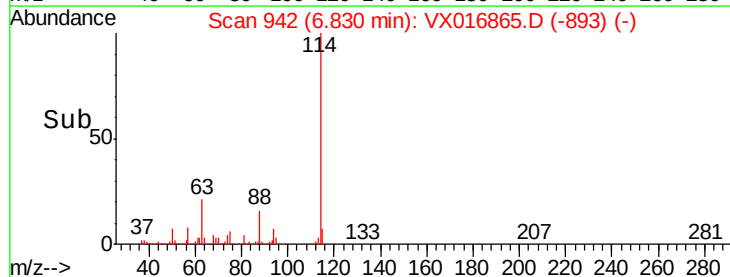
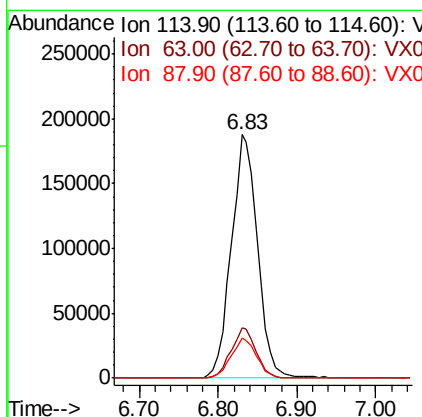
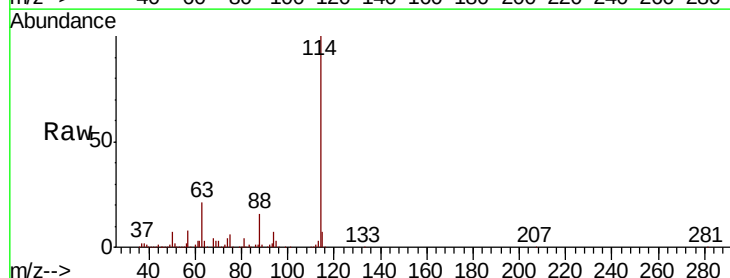
Instrument :
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 ISS-B-C

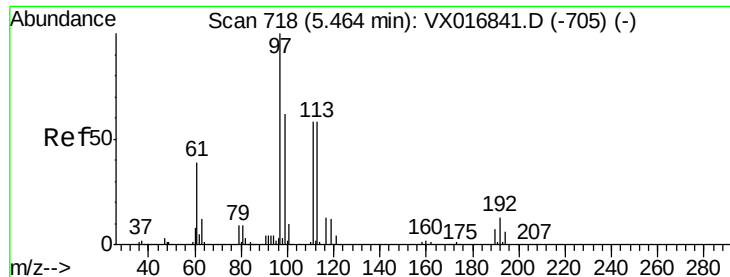
Tot Ion: 65 Resp: 135620
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016865.D
 Acq: 19 Jun 2020 02:11

Tgt Ion: 114 Resp: 433163
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 37.0
 88 16.5 0.0 32.0

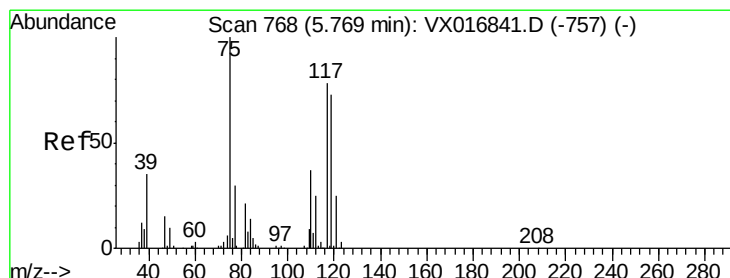
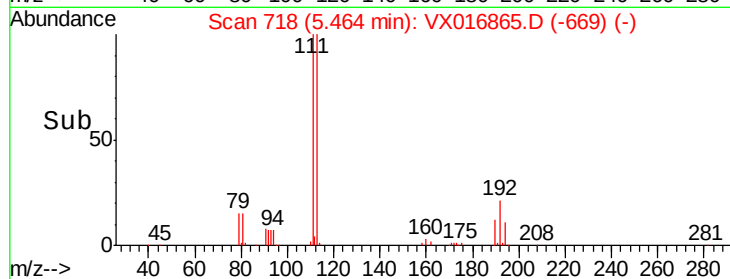
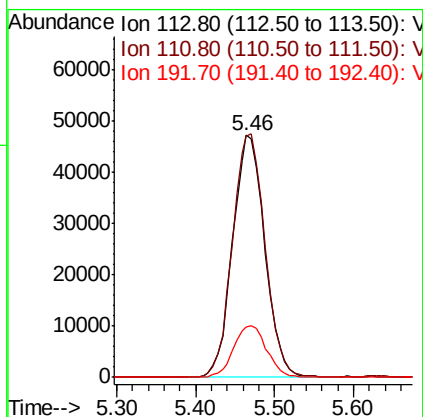
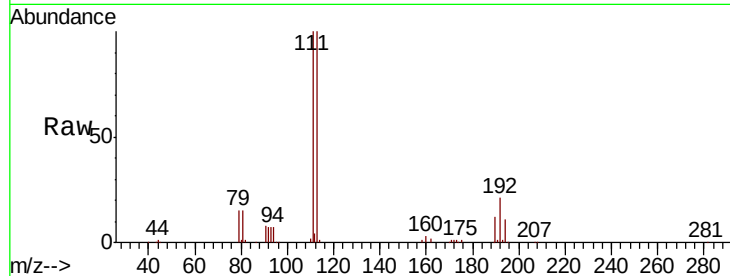




#35
 Dibromofluoromethane
 Concen: 48.279 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX016865.D
 Acq: 19 Jun 2020 02:11

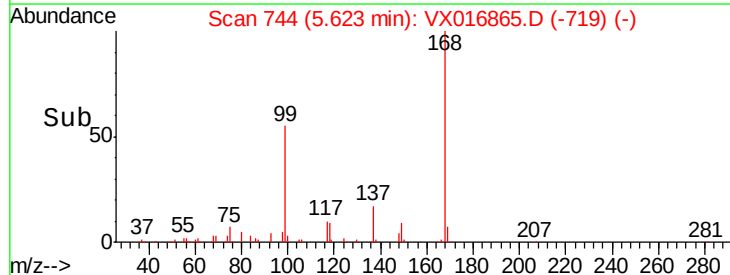
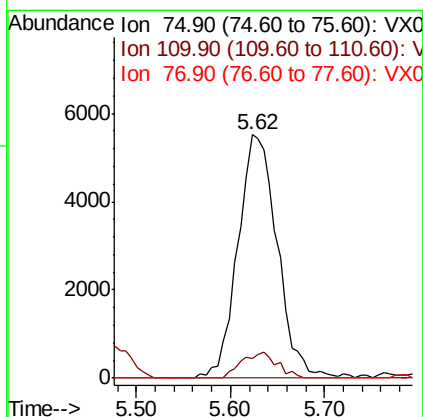
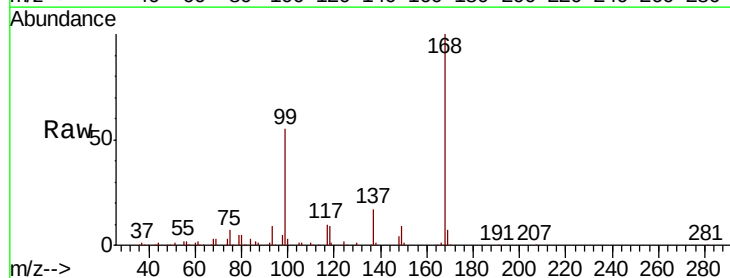
Instrument :
 MSVOA_X
 ClientSampleId :
 ISS-B-C

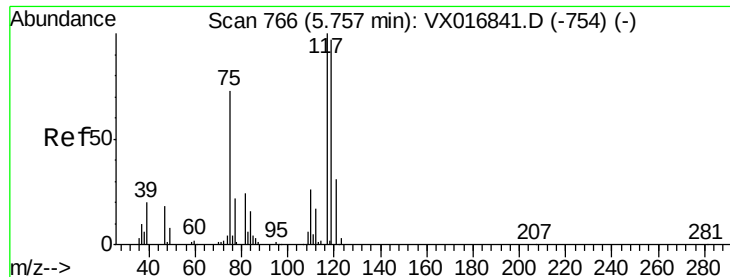
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.0	121.4
192	22.0	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.026 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX016865.D
 Acq: 19 Jun 2020 02:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.9	56.9#
77	0.0	25.6	38.4#

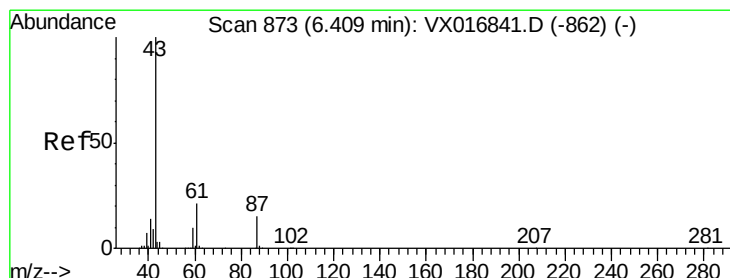
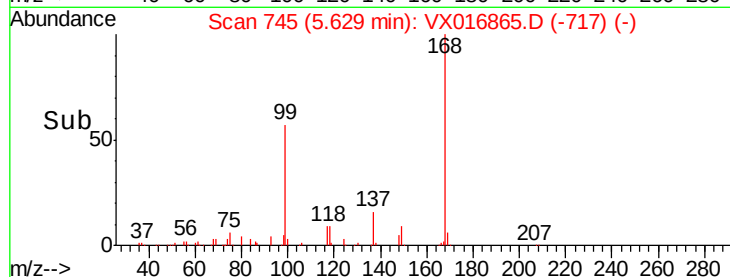
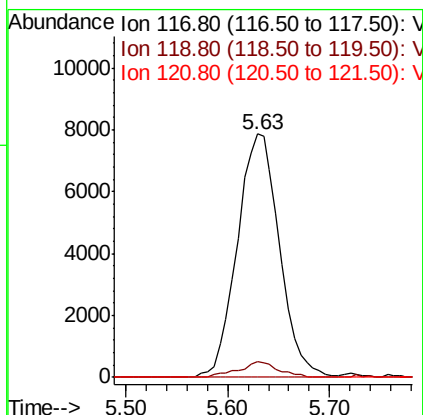
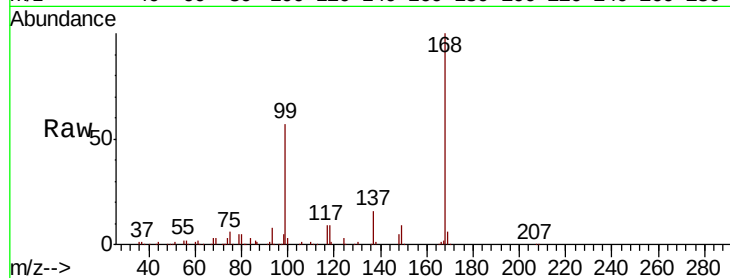




#38
Carbon Tetrachloride
Concen: 5.033 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

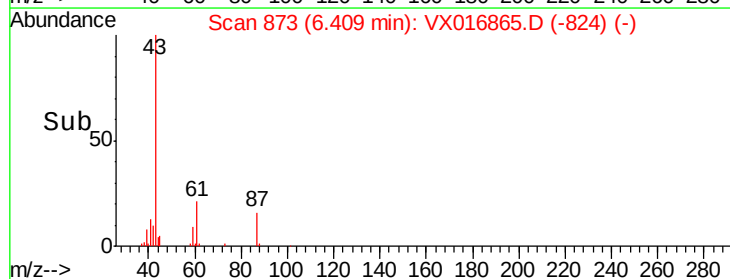
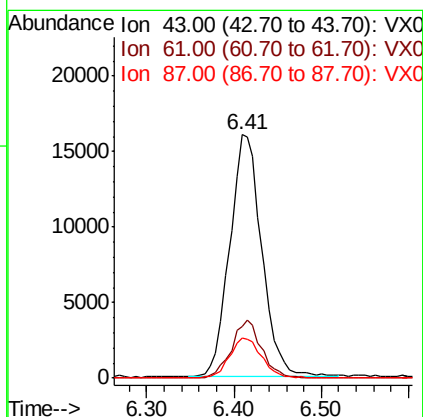
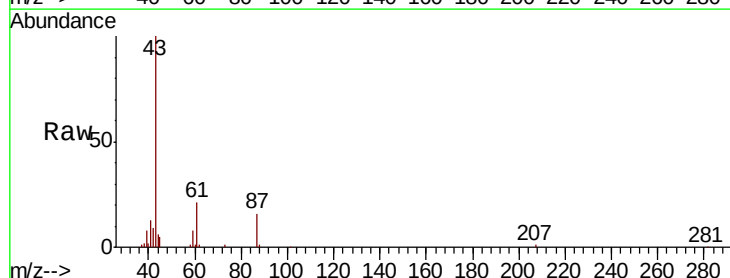
Instrument :
MSVOA_X
ClientSampled :
ISS-B-C

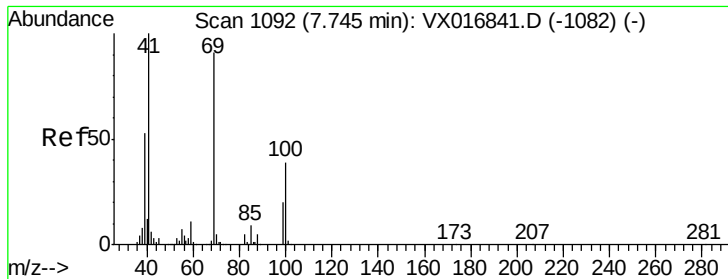
Tot Ion:117 Resp: 22586
Ion Ratio Lower Upper
117 100
119 6.4 77.4 116.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 6.664 ug/l
RT: 6.41 min Scan# 873
Delta R.T. -0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion: 43 Resp: 41122
Ion Ratio Lower Upper
43 100
61 22.2 17.9 26.9
87 16.4 12.4 18.6

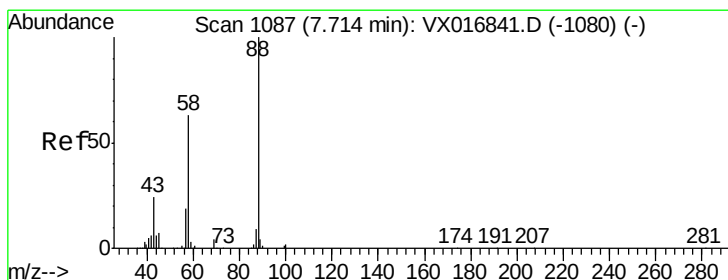
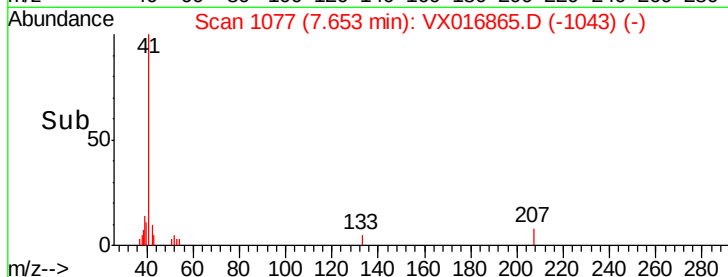
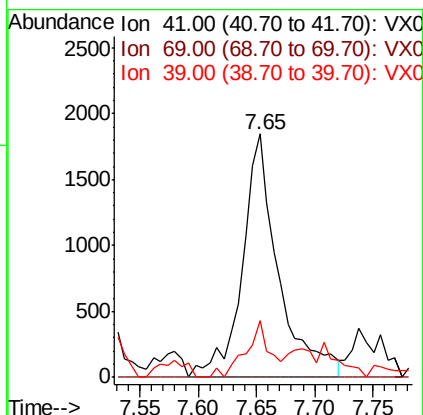
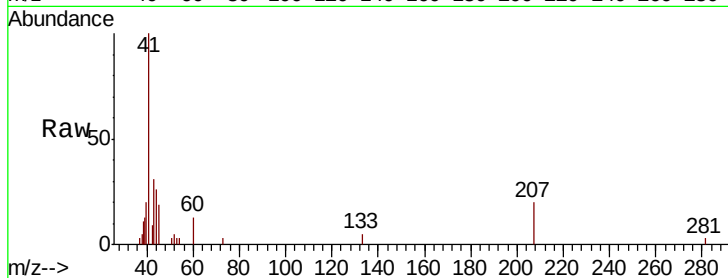




#48
Methvl methacrylate
Concen: 1.376 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

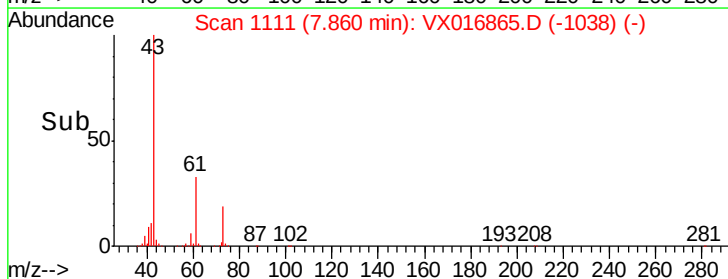
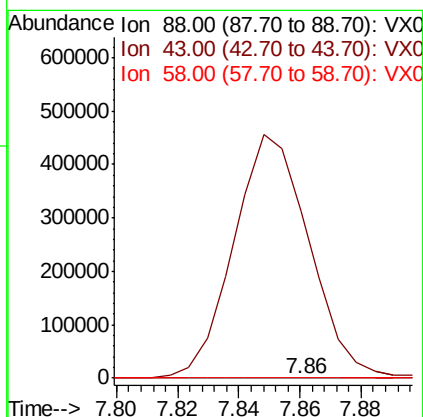
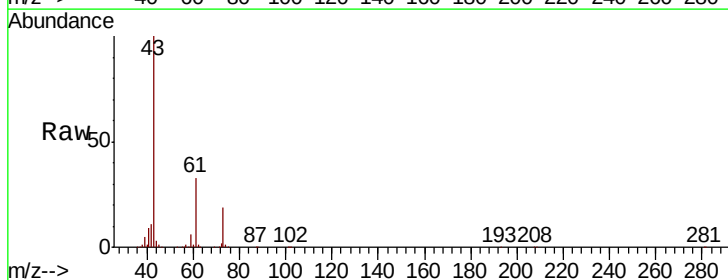
Instrument :
MSVOA_X
ClientSampleId :
ISS-B-C

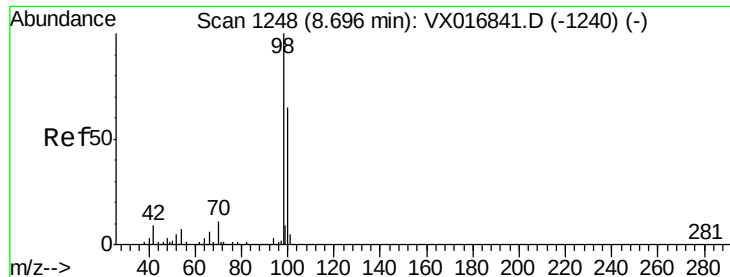
Tot Ion: 41 Resp: 3999
Ion Ratio Lower Upper
41 100
69 0.0 73.3 109.9#
39 0.0 42.4 63.6#



#49
1,4-Dioxane
Concen: 3.182 ug/l
RT: 7.86 min Scan# 1111
Delta R.T. 0.15 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion: 88 Resp: 207
Ion Ratio Lower Upper
88 100
43 382122.2 22.7 34.1#
58 1835.3 53.1 79.7#

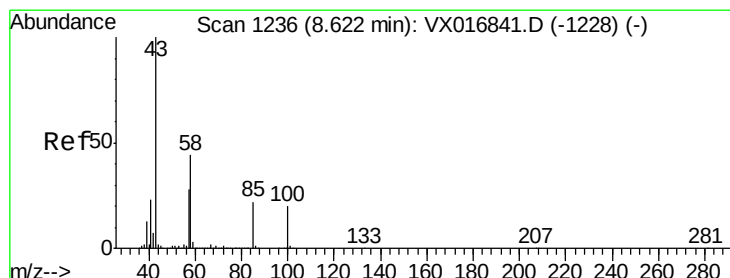
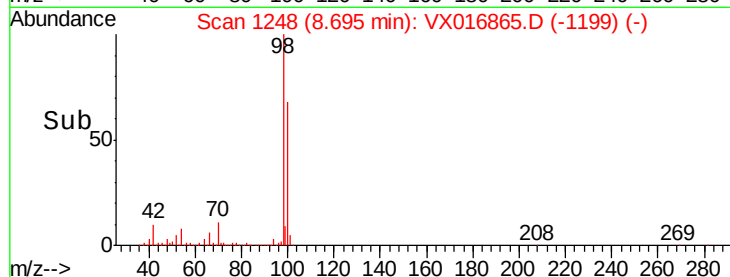
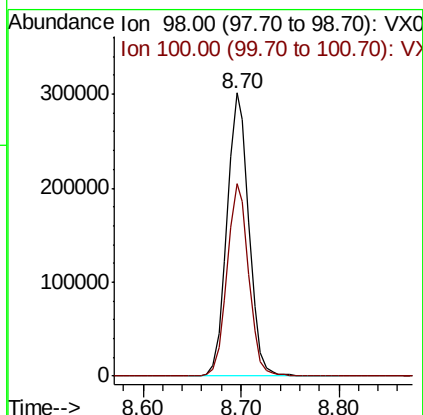
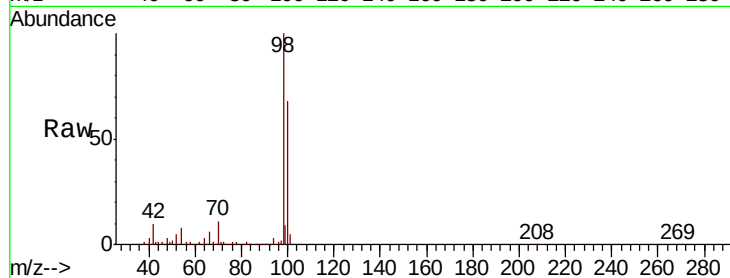




#50
Toluene-d8
Concen: 42.097 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

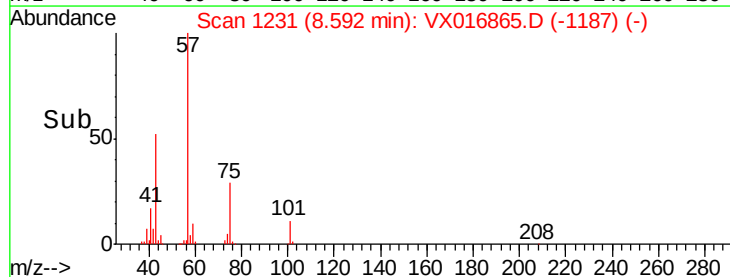
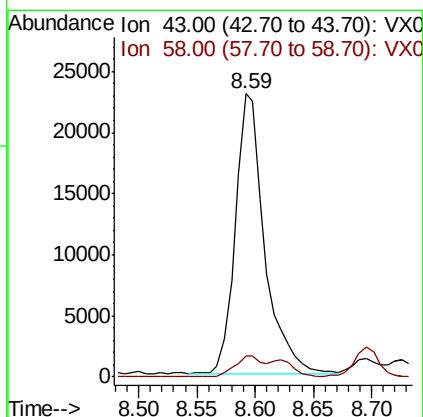
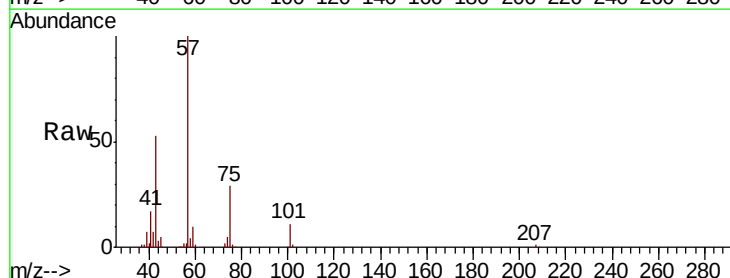
Instrument :
MSVOA_X
ClientSampleId :
ISS-B-C

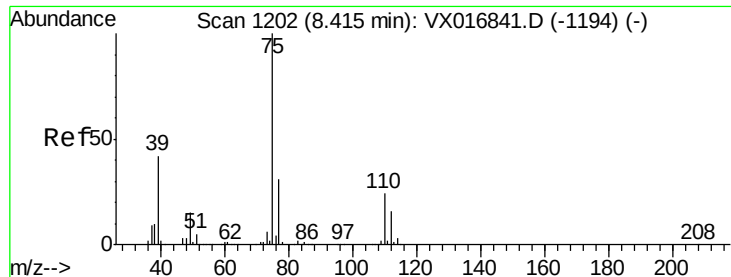
Tot Ion: 98 Resp: 466694
Ion Ratio Lower Upper
98 100
100 67.2 54.0 81.0



#51
4-Methyl-2-Pentanone
Concen: 10.778 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion: 43 Resp: 40005
Ion Ratio Lower Upper
43 100
58 7.3 34.3 51.5#



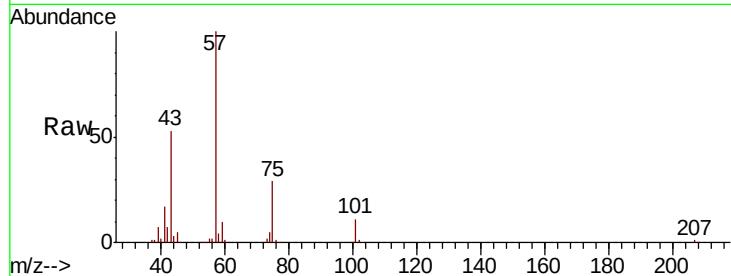


#54

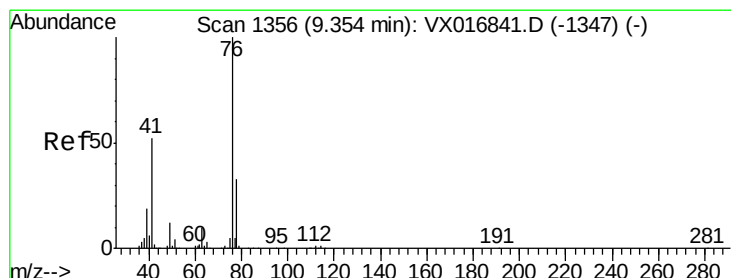
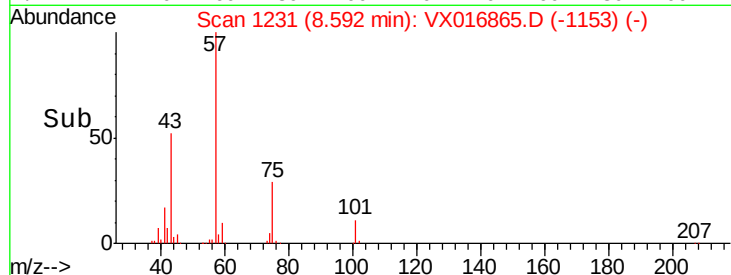
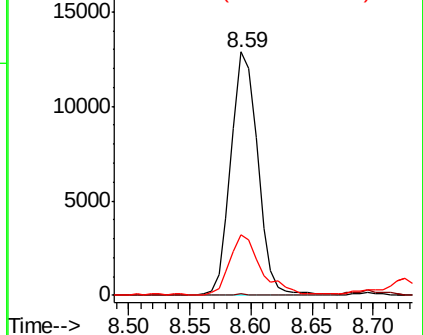
cis-1,3-Dichloropropene
Concen: 3.853 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. 0.18 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Instrument :
MSVOA_X
ClientSampleId :
ISS-B-C

Tot Ion: 75 Resp: 19720
Ion Ratio Lower Upper
75 100
77 0.5 24.9 37.3#
39 25.1 33.4 50.0#



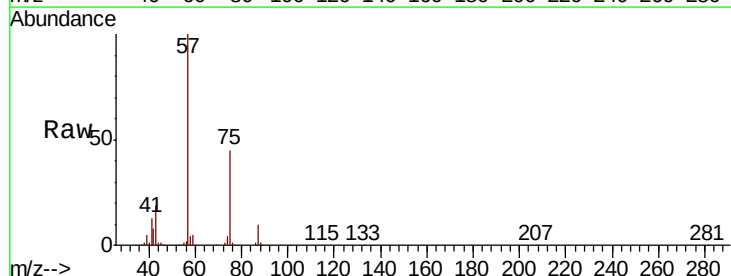
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



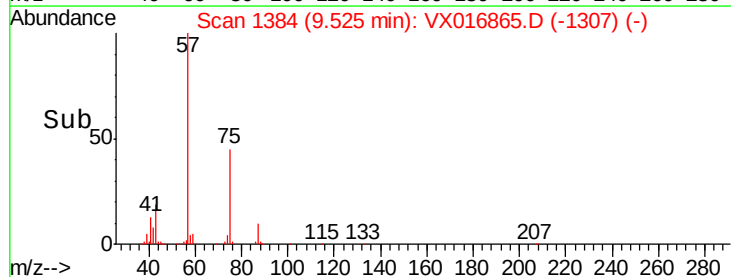
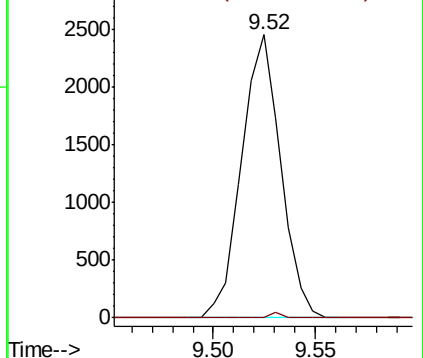
#57

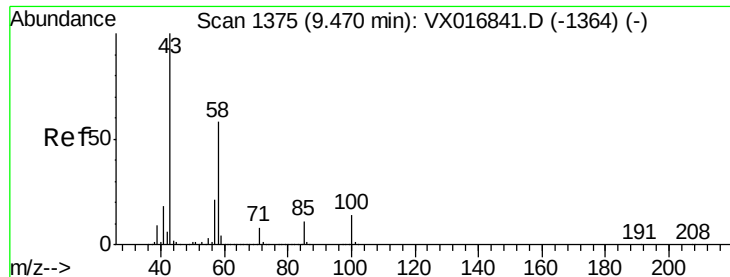
1,3-Dichloropropane
Concen: 0.642 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.17 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion: 76 Resp: 3269
Ion Ratio Lower Upper
76 100
78 0.6 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

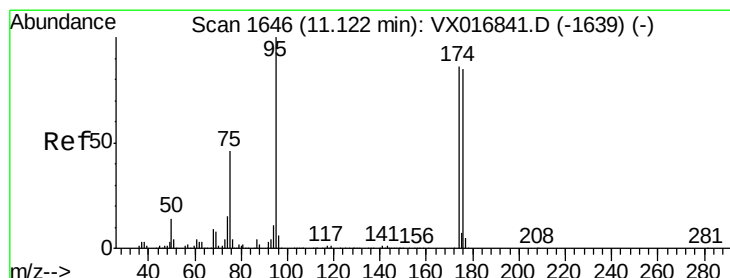
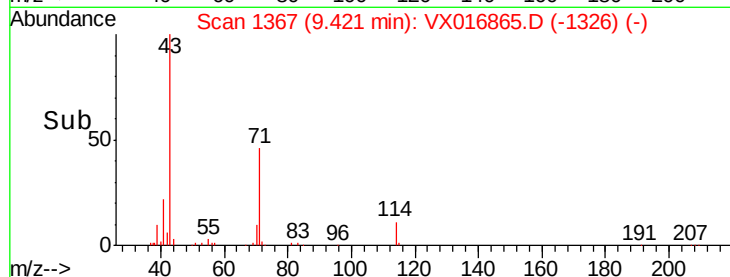
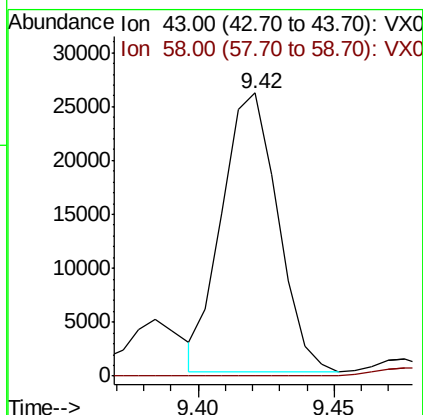
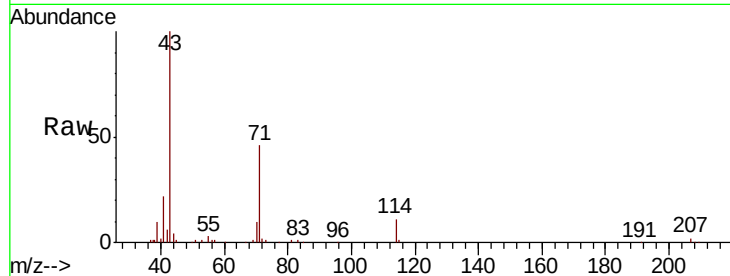




#59
2-Hexanone
Concen: 3.760 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

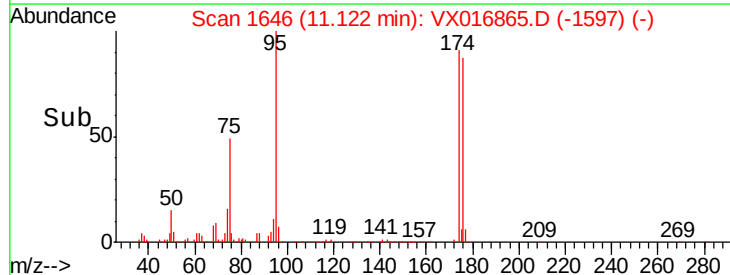
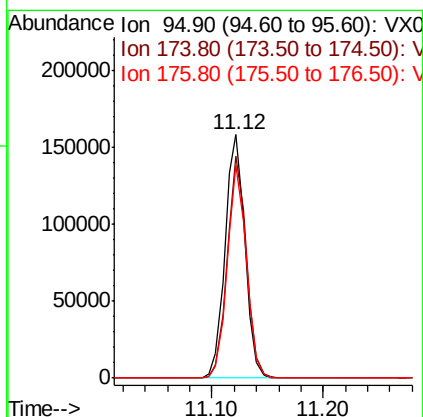
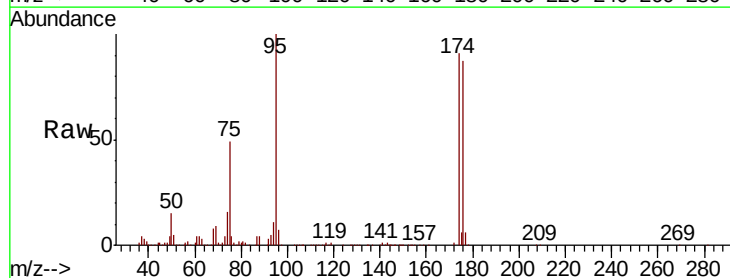
Instrument :
MSVOA_X
ClientSampled :
ISS-B-C

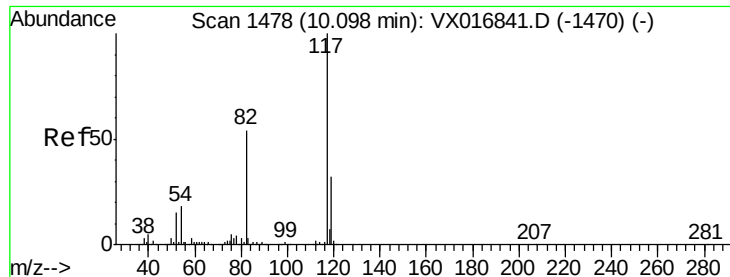
Tot Ion: 43 Resp: 36755
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 45.720 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion: 95 Resp: 194199
Ion Ratio Lower Upper
95 100
174 88.3 0.0 174.2
176 84.0 0.0 170.0

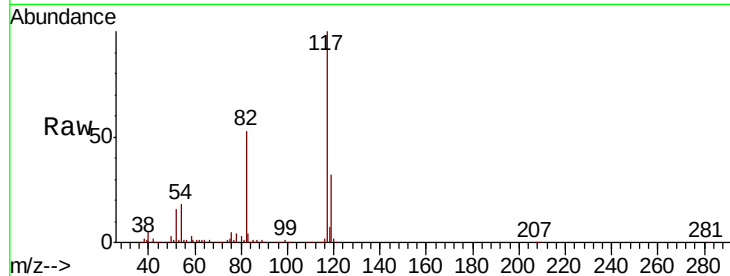




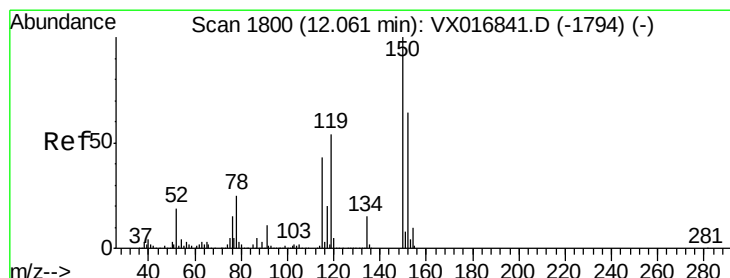
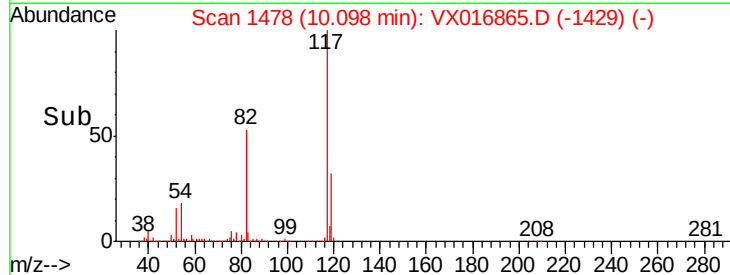
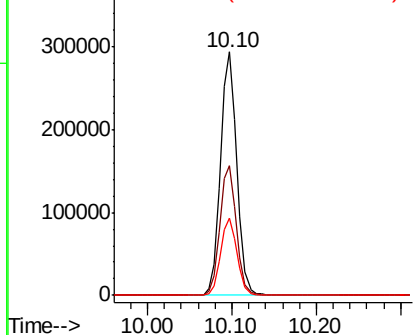
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Instrument :
MSVOA_X
ClientSampleId :
ISS-B-C

Tot Ion:117 Resp: 392670
Ion Ratio Lower Upper
117 100
82 53.1 43.4 65.0
119 31.8 25.7 38.5

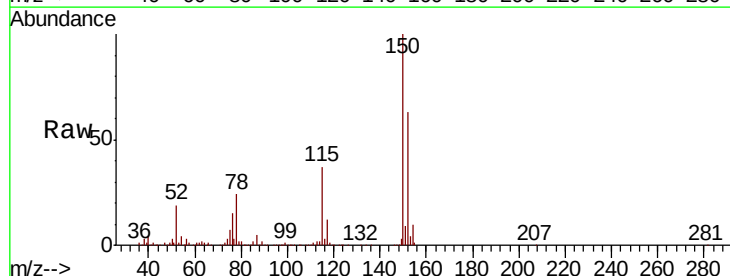


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

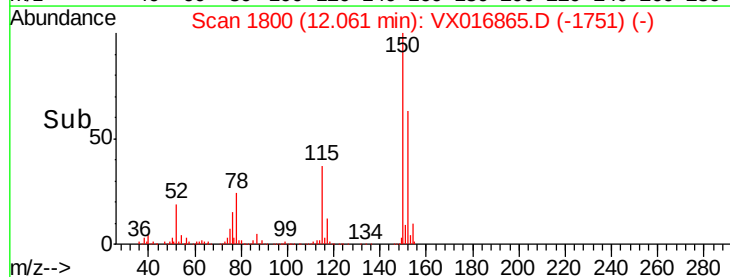
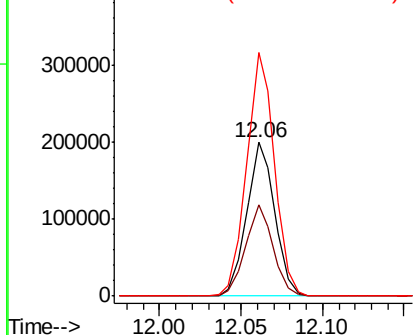


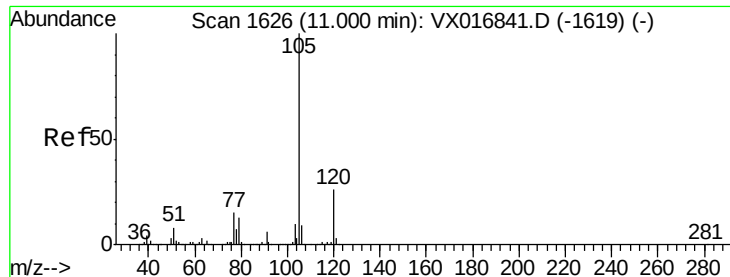
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion:152 Resp: 238868
Ion Ratio Lower Upper
152 100
115 57.9 40.9 122.8
150 157.6 0.0 344.2



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016865.D

Acq: 19 Jun 2020 02:11

Instrument :

MSVOA_X

ClientSampleId :

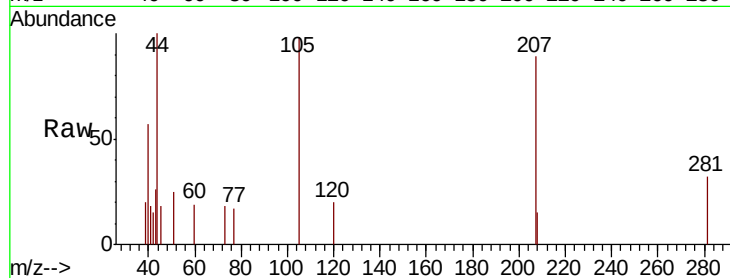
ISS-B-C

Tot Ion:105 Resp: 414

Ion Ratio Lower Upper

105 100

120 15.2 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.01

400

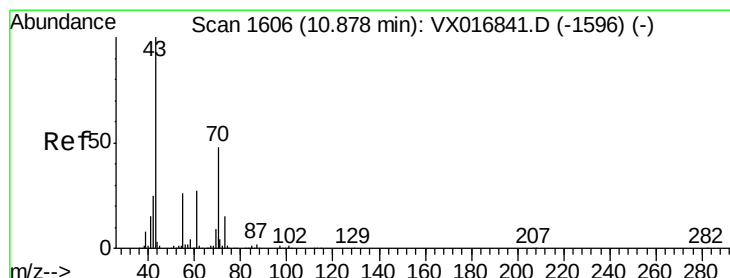
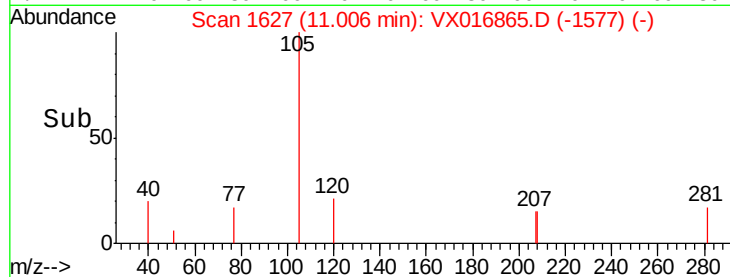
300

200

100

0

Time-->



#74

N-ethyl acetate

Concen: 0.451 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016865.D

Acq: 19 Jun 2020 02:11

Tgt Ion: 43 Resp: 2422

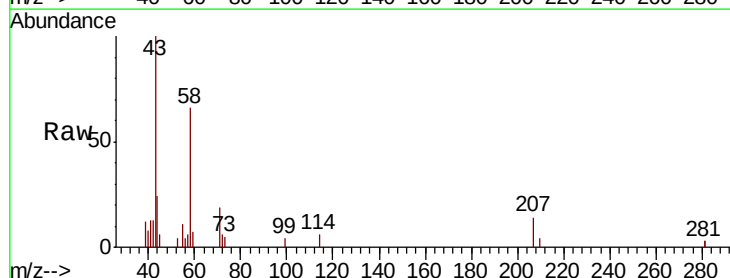
Ion Ratio Lower Upper

43 100

70 0.0 39.9 59.9#

55 11.3 21.8 32.6#

61 0.0 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

3000

2500

2000

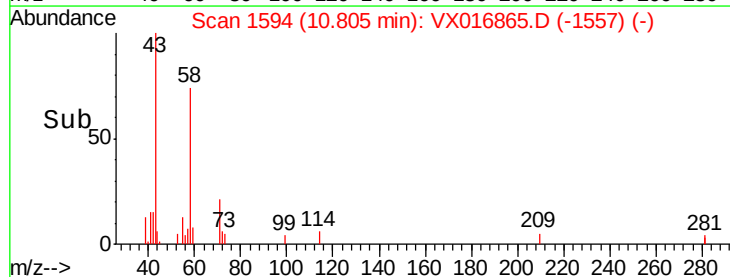
1500

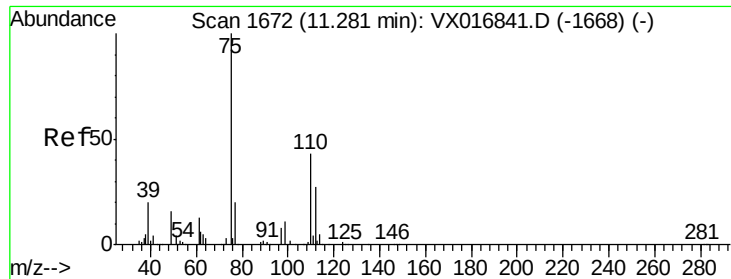
1000

500

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 21.187 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016865.D

Acq: 19 Jun 2020 02:11

Instrument :

MSVOA_X

ClientSampled :

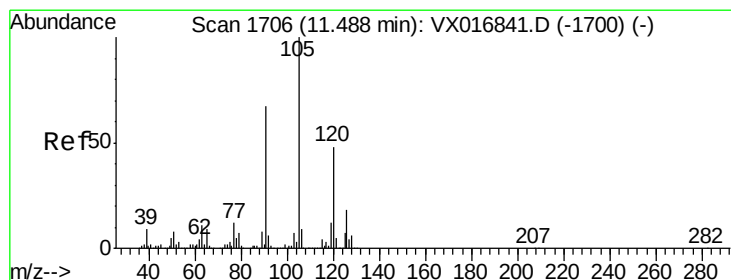
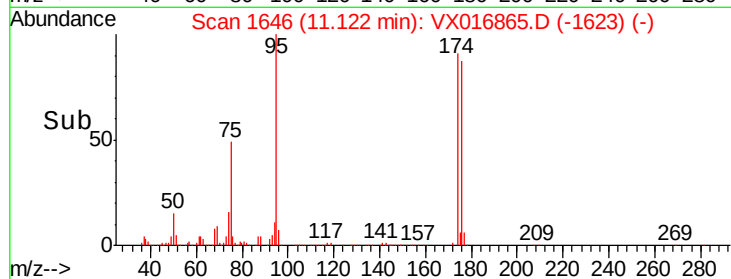
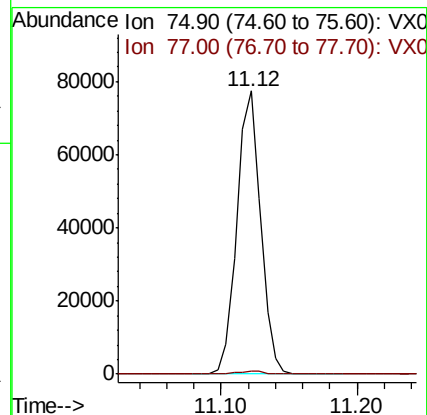
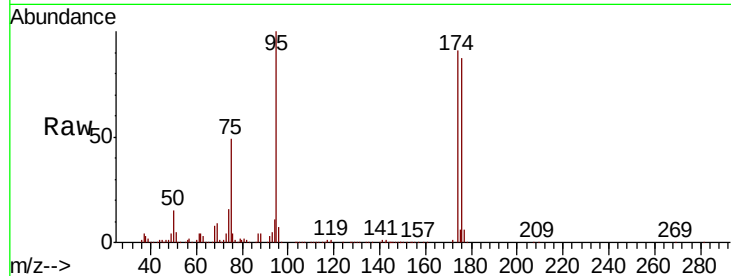
ISS-B-C

Tot Ion: 75 Resp: 93993

Ion Ratio Lower Upper

75 100

77 1.3 20.5 61.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.257 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX016865.D

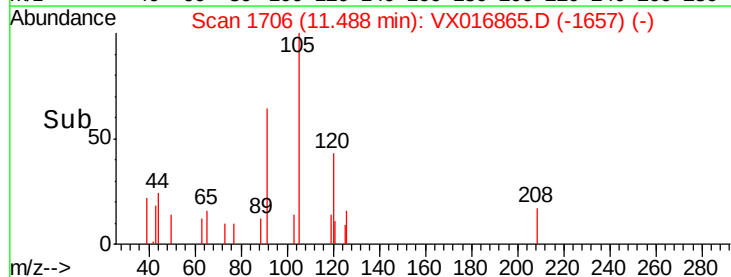
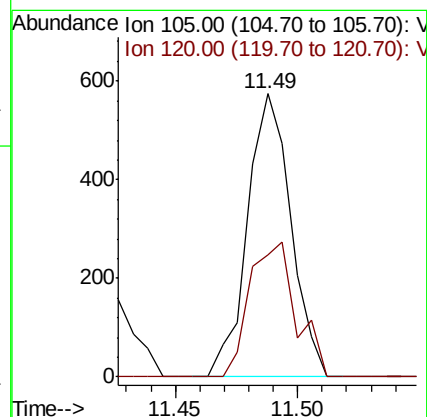
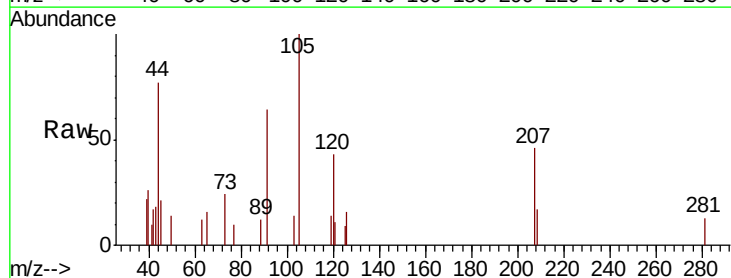
Acq: 19 Jun 2020 02:11

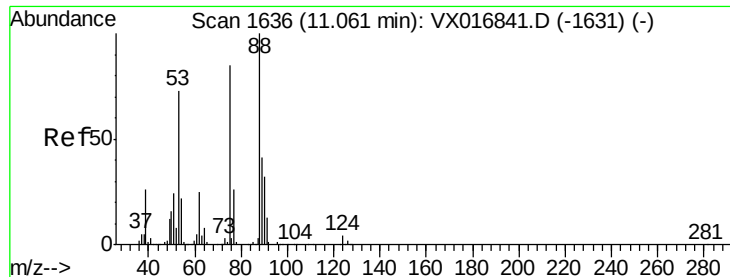
Tgt Ion: 105 Resp: 712

Ion Ratio Lower Upper

105 100

120 51.0 24.6 74.0

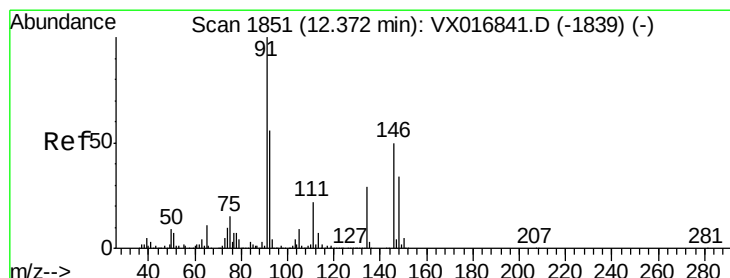
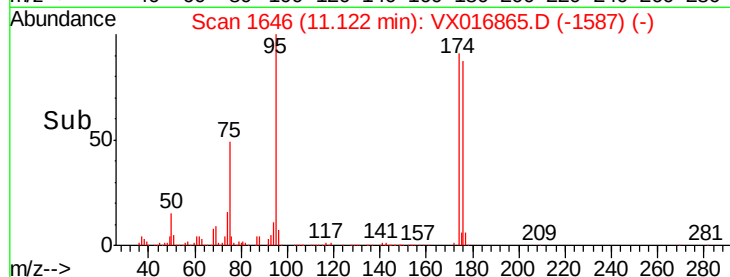
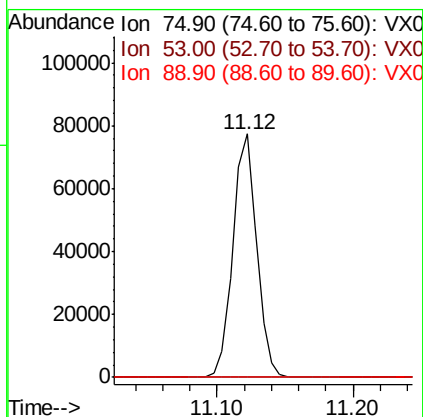
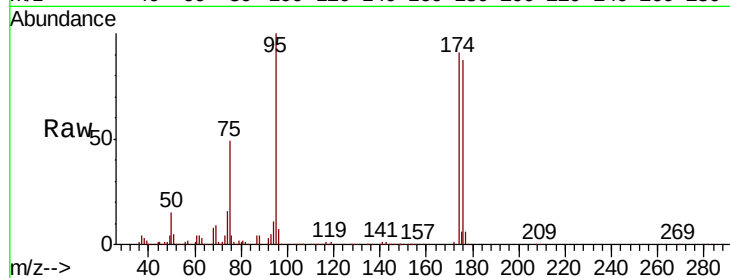




#81
trans-1,4-Dichloro-2-butene
Concen: 52.762 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Instrument :
MSVOA_X
ClientSampled :
ISS-B-C

Tot Ion: 75 Resp: 93993
Ion Ratio Lower Upper
75 100
53 0.1 69.8 104.8#
89 0.0 38.3 57.5#



#89
n-Butylbenzene
Concen: 3.110 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VX016865.D
Acq: 19 Jun 2020 02:11

Tgt Ion: 91 Resp: 1362
Ion Ratio Lower Upper
91 100
92 39.1 27.4 82.2
134 31.7 13.9 41.6

