

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX093019\
 Data File : VX012697.D
 Acq On : 30 Sep 2019 12:02
 Operator : JC/SP
 Sample : K5081-02DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ171I-20190925DL

Quant Time: Oct 01 05:23:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	177045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	305156	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	257927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	99504	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	124721	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
35) Dibromofluoromethane	5.48	113	92739	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
50) Toluene-d8	8.71	98	359152	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
62) 4-Bromofluorobenzene	11.14	95	123363	44.83	ug/l	0.00
Spiked Amount			Recovery	=	89.66%	

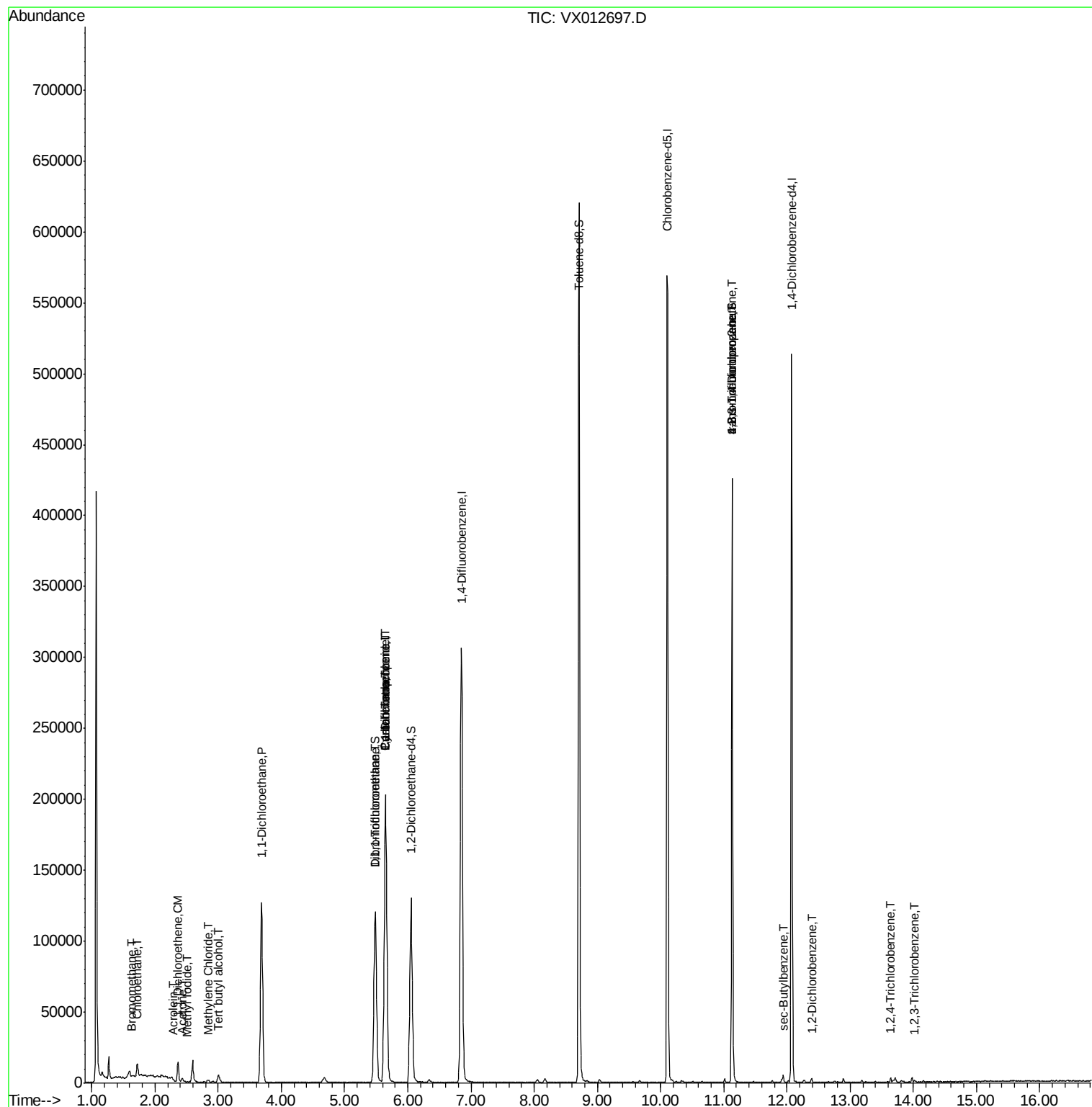
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	269	0.301	ug/l #	74
6) Chloroethane	1.72	64	6984	4.557	ug/l #	82
10) Methyl Iodide	2.51	142	125	5.008	ug/l #	35
11) Tert butyl alcohol	3.01	59	3680	5.714	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	4730	2.485	ug/l	96
13) Acrolein	2.29	56	159	10.658	ug/l #	1
16) Acetone	2.43	43	2842	2.081	ug/l	91
20) Methylene Chloride	2.84	84	501	0.217	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	143701	36.227	ug/l	100
31) Cyclohexane	5.65	56	4600	1.282	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	12066	3.355	ug/l	99
36) 1,1-Dichloropropene	5.65	75	15267	5.190	ug/l #	51
38) Carbon Tetrachloride	5.65	117	19871	6.650	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	63323	24.058	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	63323	68.944	ug/l #	8
85) sec-Butylbenzene	11.94	105	2966	0.389	ug/l	86
91) 1,2-Dichlorobenzene	12.39	146	912	0.276	ug/l	86
93) 1,2,4-Trichlorobenzene	13.64	180	753	0.374	ug/l	84
96) 1,2,3-Trichlorobenzene	14.01	180	431	0.213	ug/l #	48

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

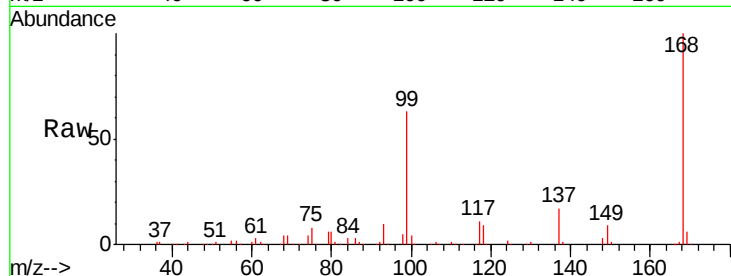
SA-PZ171I-20190925DL

Tgt Ion: 168 Resp: 177045

Ion Ratio Lower Upper

168 100

99 62.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

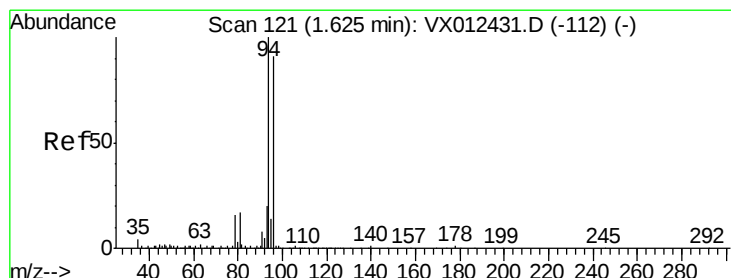
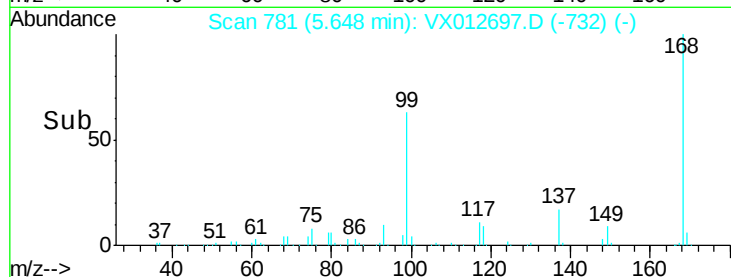
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.301 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012697.D

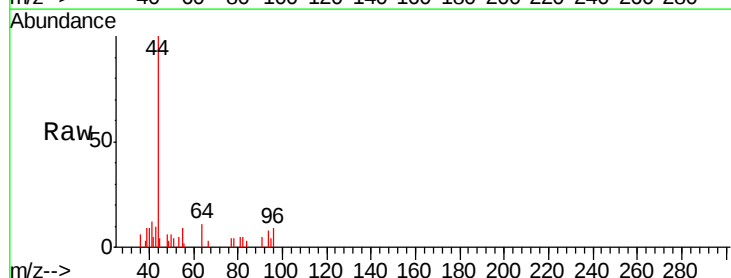
Acq: 30 Sep 2019 12:02

Tgt Ion: 94 Resp: 269

Ion Ratio Lower Upper

94 100

96 115.5 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

200

150

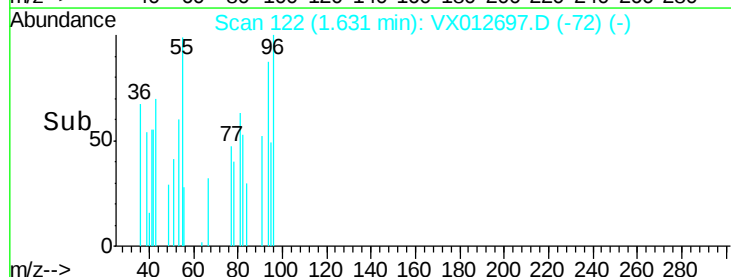
100

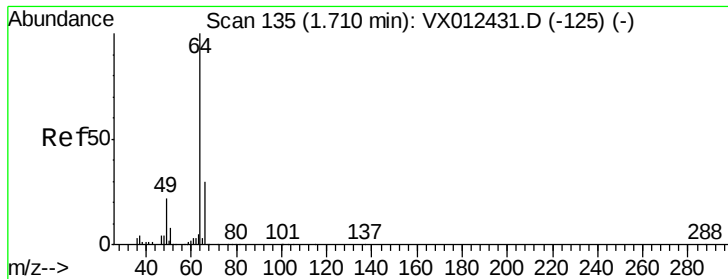
50

0

Time-->

1.62 1.64 1.66





#6

Chloroethane

Concen: 4.557 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

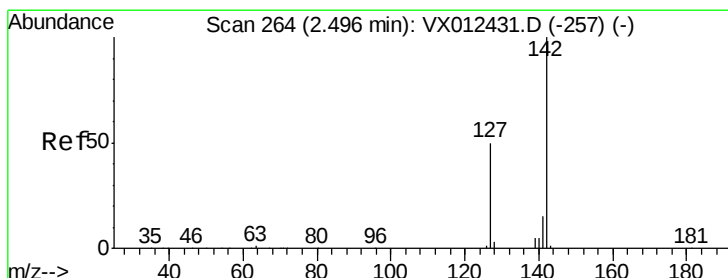
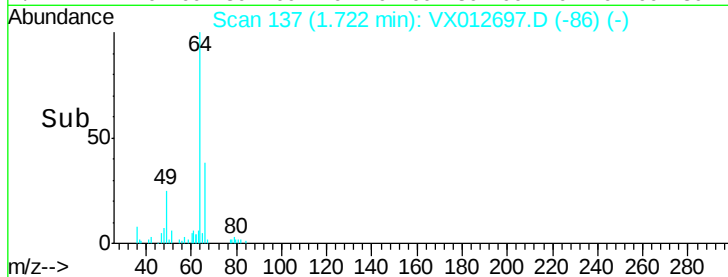
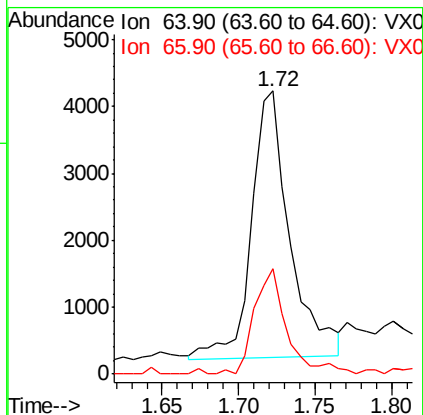
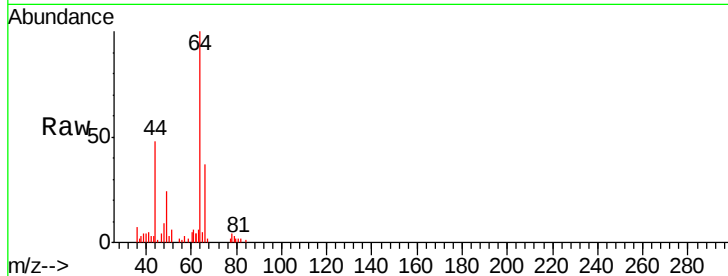
SA-PZ171I-20190925DL

Tgt Ion: 64 Resp: 6984

Ion Ratio Lower Upper

64 100

66 39.9 24.0 36.0#



#10

Methyl Iodide

Concen: 5.008 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

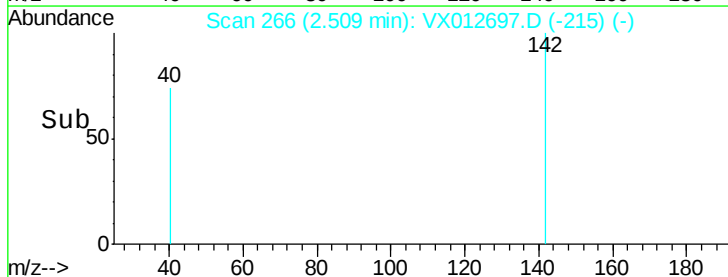
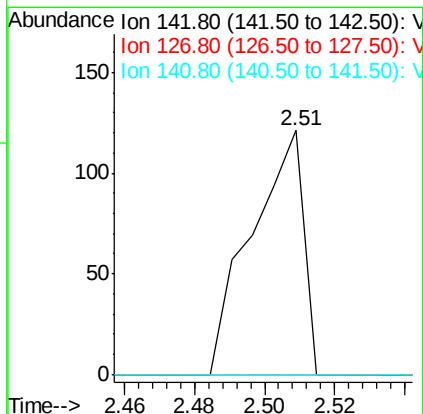
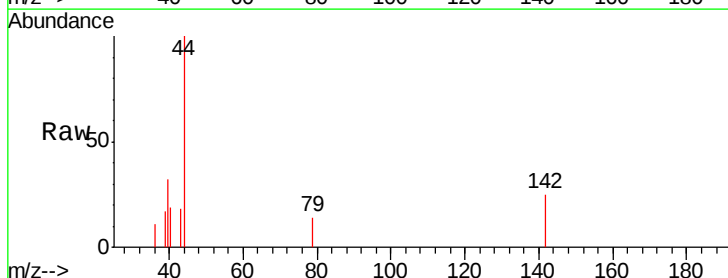
Tgt Ion: 142 Resp: 125

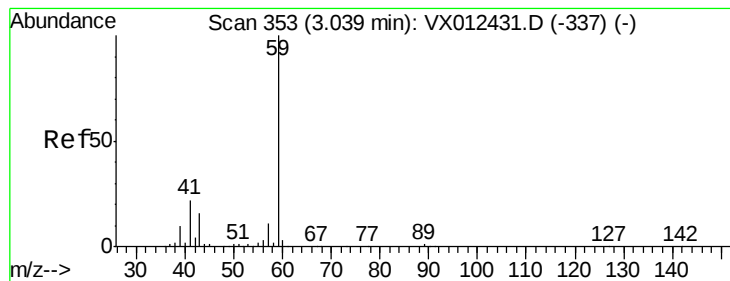
Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

141 0.0 12.1 18.1#



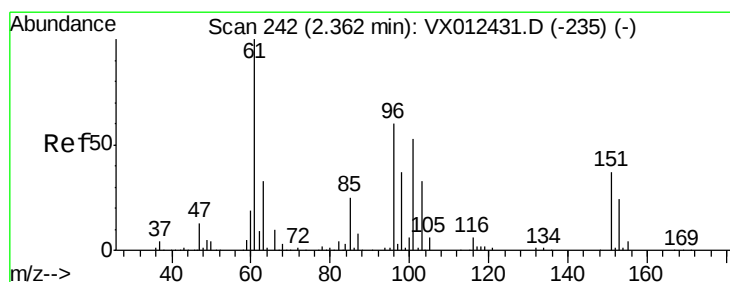
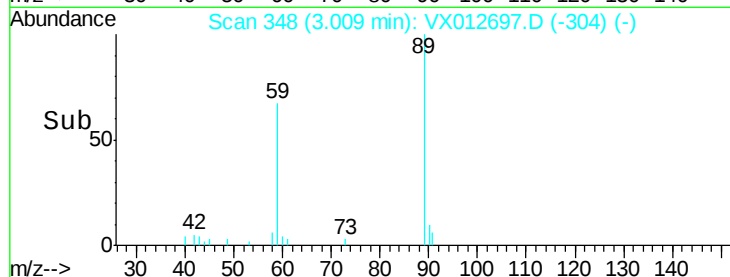
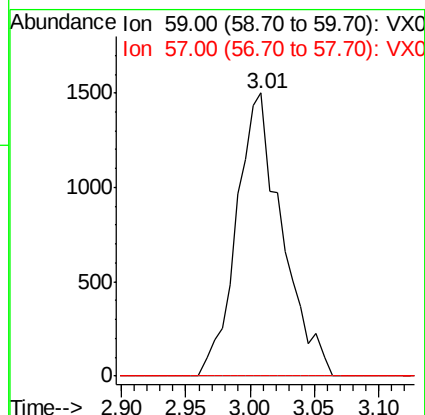
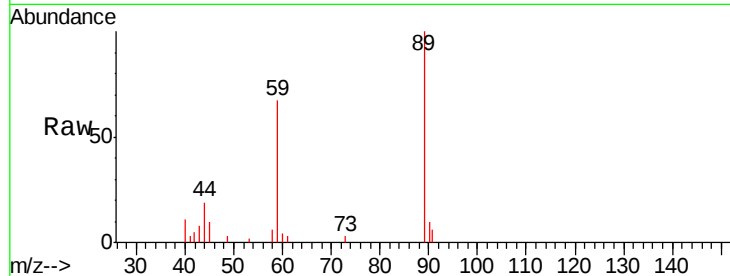


#11

Tert butyl alcohol
 Concen: 5.714 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX012697.D
 Acq: 30 Sep 2019 12:02

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ171I-20190925DL

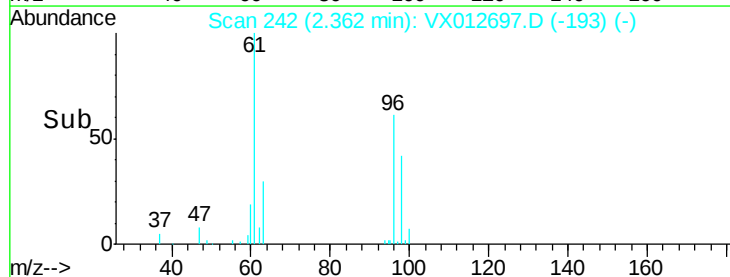
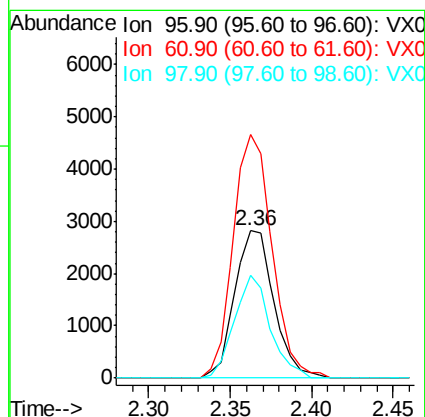
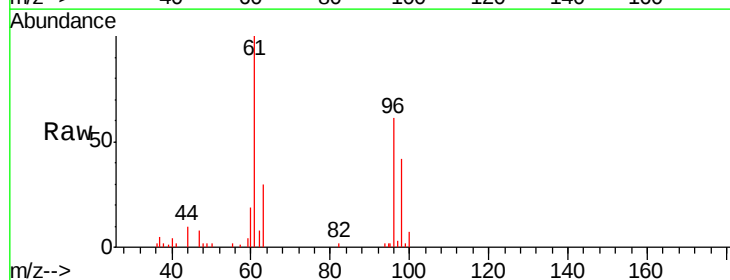
Tgt Ion: 59 Resp: 3680
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

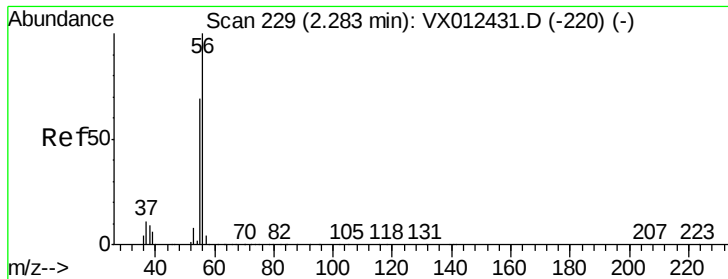


#12

1,1-Dichloroethene
 Concen: 2.485 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX012697.D
 Acq: 30 Sep 2019 12:02

Tgt Ion: 96 Resp: 4730
 Ion Ratio Lower Upper
 96 100
 61 165.2 133.8 200.6
 98 69.8 49.9 74.9





#13

Acrolein

Concen: 10.658 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

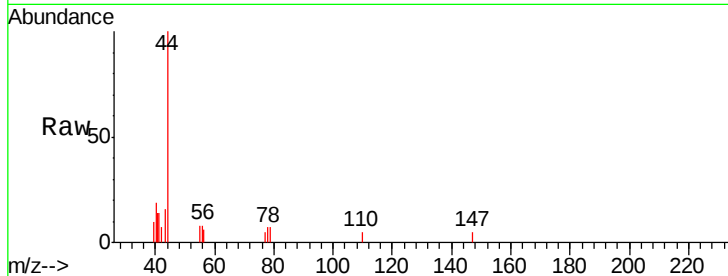
SA-PZ171I-20190925DL

Tgt Ion: 56 Resp: 159

Ion Ratio Lower Upper

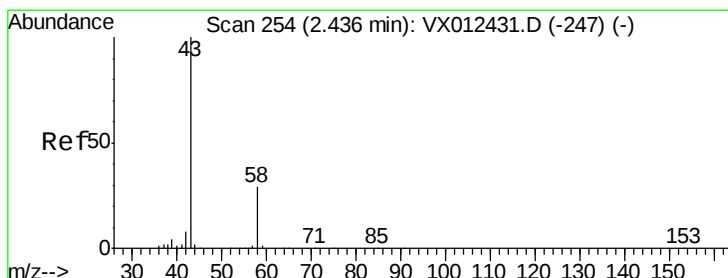
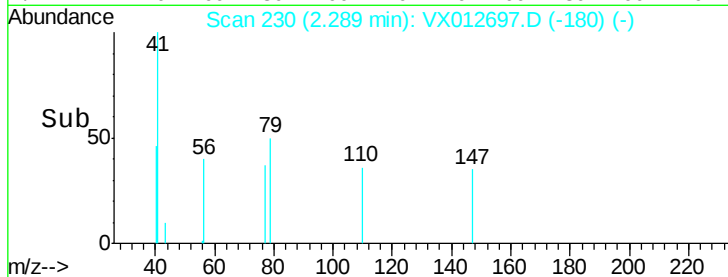
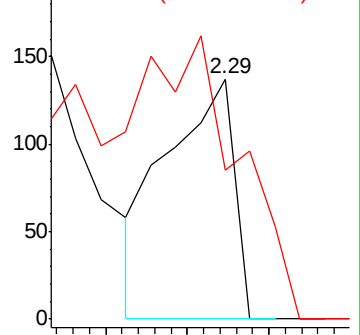
56 100

55 155.3 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.081 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012697.D

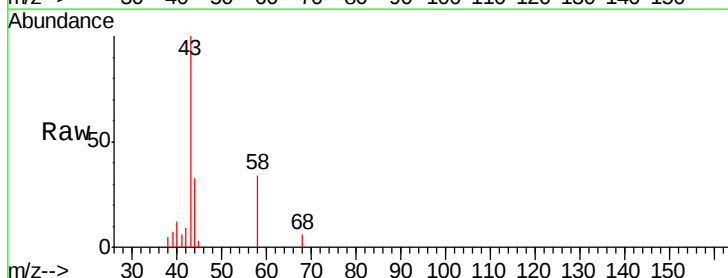
Acq: 30 Sep 2019 12:02

Tgt Ion: 43 Resp: 2842

Ion Ratio Lower Upper

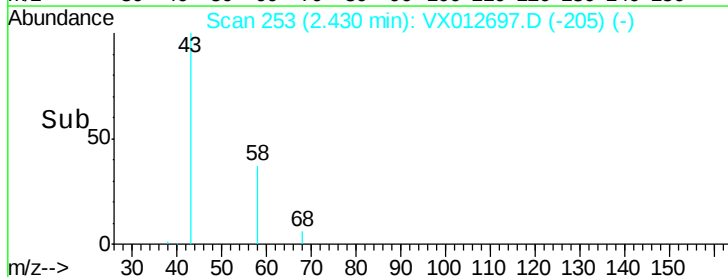
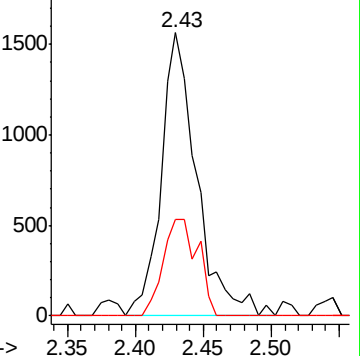
43 100

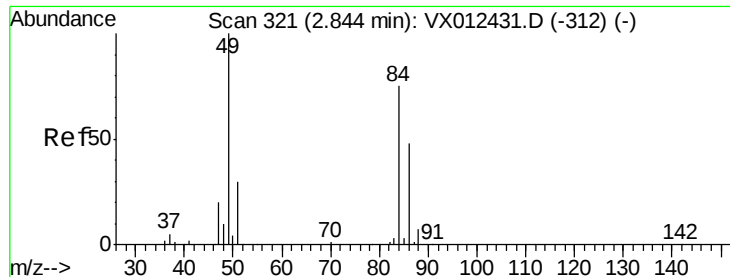
58 33.9 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

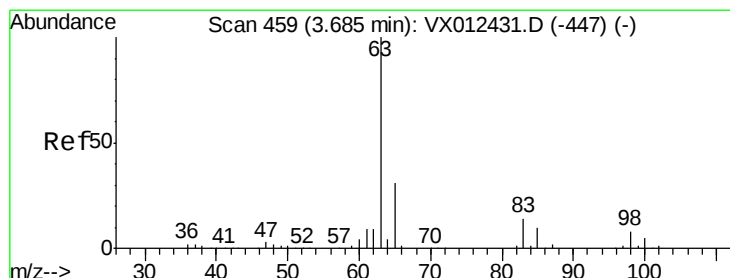
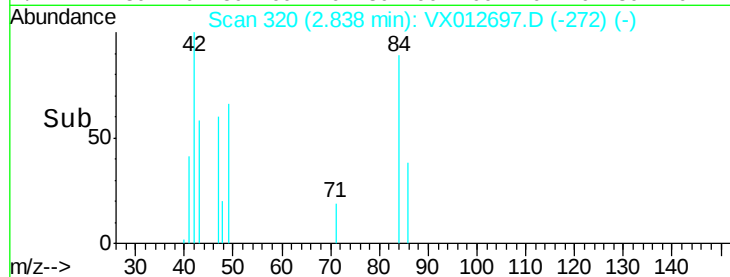
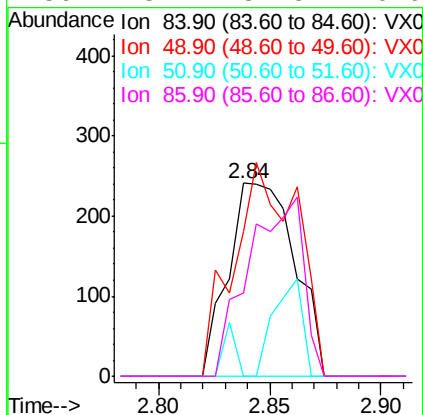
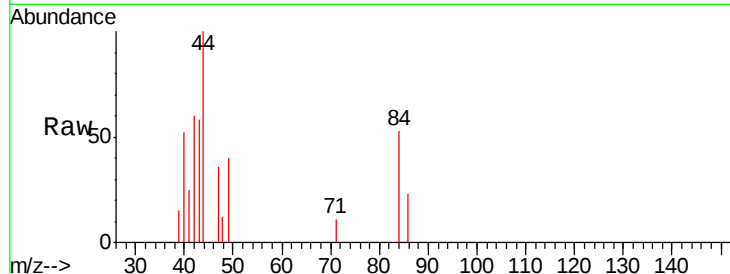




#20
Methylene Chloride
Concen: 0.217 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX012697.D
Acq: 30 Sep 2019 12:02

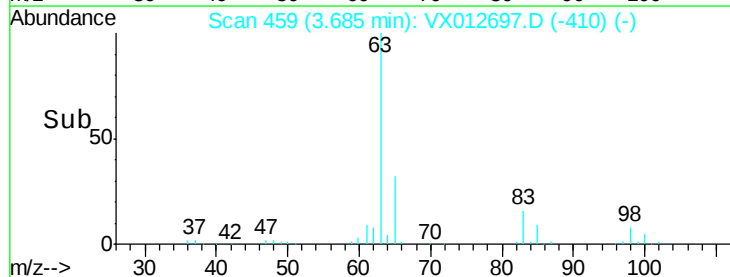
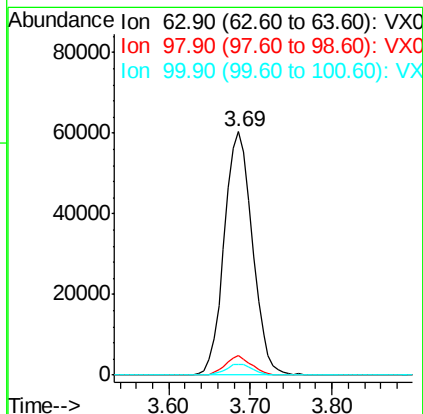
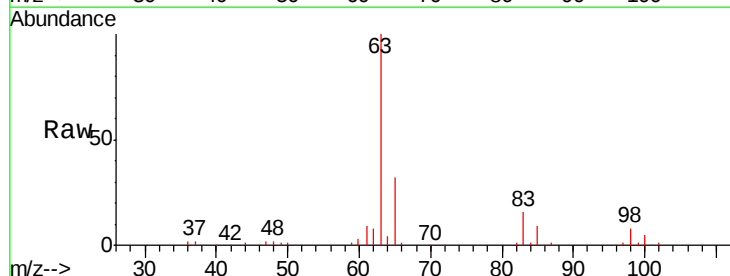
Instrument :
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ClientSampleId :
SA-PZ171I-20190925DL

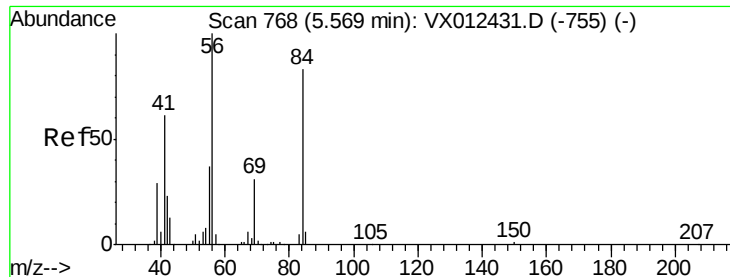
Tgt Ion: 84 Resp: 501
Ion Ratio Lower Upper
84 100
49 74.7 106.8 160.2#
51 0.0 32.3 48.5#
86 43.2 51.3 76.9#



#24
1,1-Dichloroethane
Concen: 36.227 ug/l
RT: 3.69 min Scan# 459
Delta R.T. 0.00 min
Lab File: VX012697.D
Acq: 30 Sep 2019 12:02

Tgt Ion: 63 Resp: 143701
Ion Ratio Lower Upper
63 100
98 7.9 3.9 11.7
100 4.5 2.3 6.9

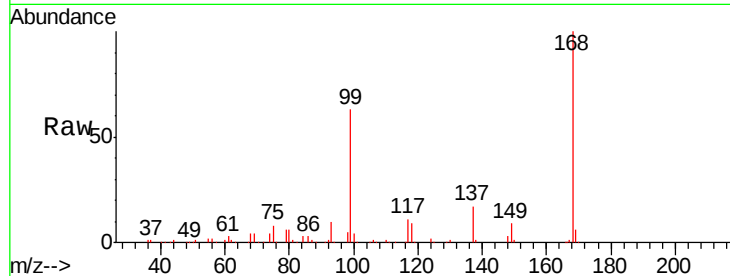




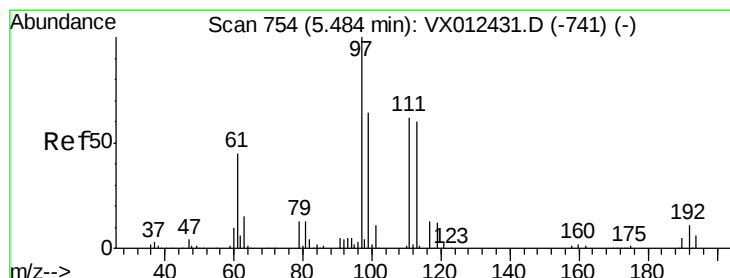
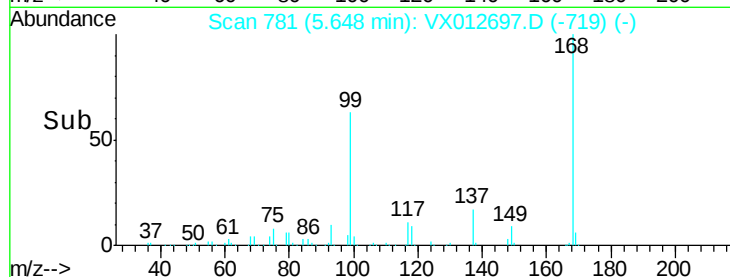
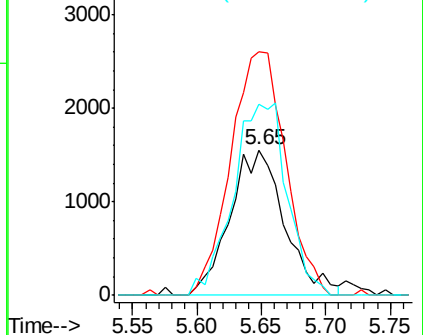
#31
Cyclohexane
Concen: 1.282 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012697.D
Acq: 30 Sep 2019 12:02

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ171I-20190925DL

Tgt Ion: 56 Resp: 4600
Ion Ratio Lower Upper
56 100
69 167.6 25.0 37.6#
84 131.8 66.4 99.6#

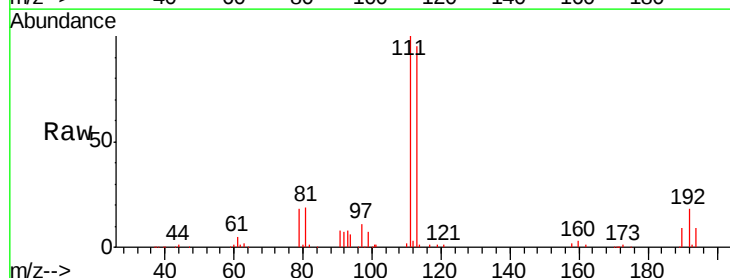


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

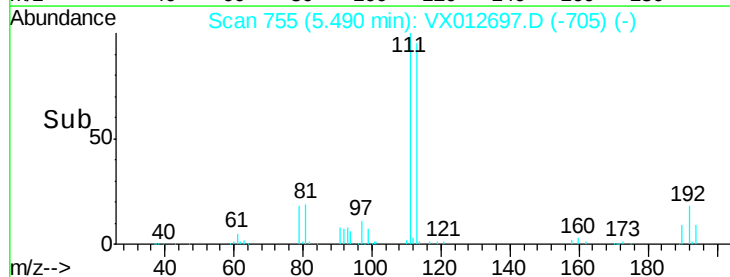
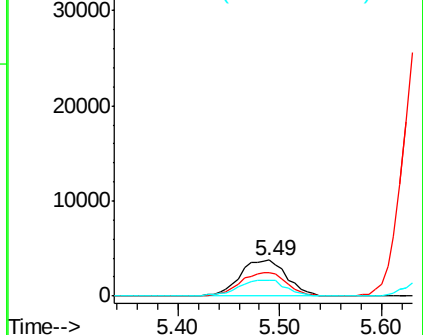


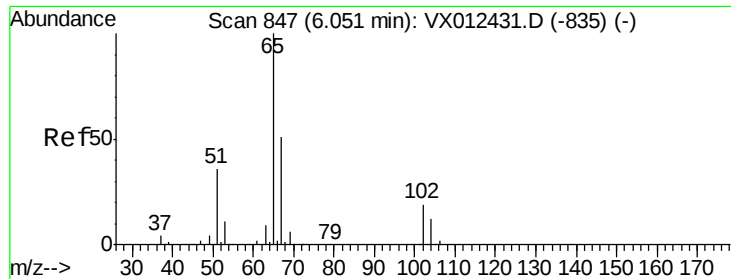
#32
1,1,1-Trichloroethane
Concen: 3.355 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX012697.D
Acq: 30 Sep 2019 12:02

Tgt Ion: 97 Resp: 12066
Ion Ratio Lower Upper
97 100
99 65.1 51.3 76.9
61 45.1 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.377 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

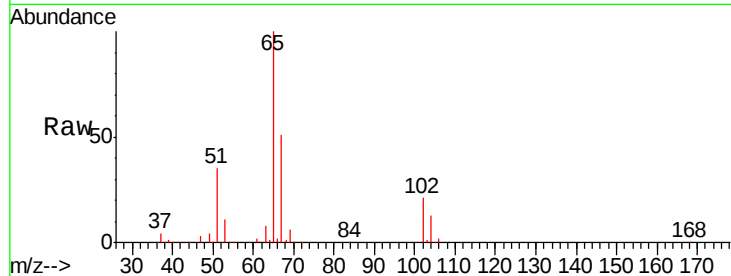
SA-PZ171I-20190925DL

Tgt Ion: 65 Resp: 124721

Ion Ratio Lower Upper

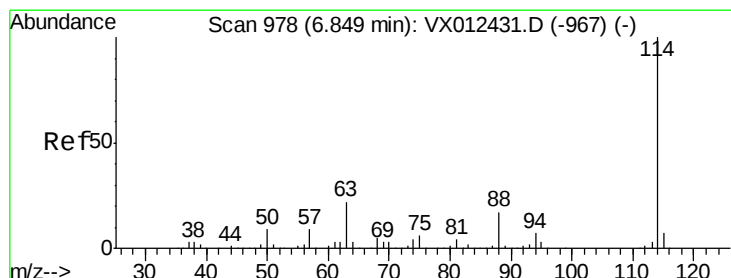
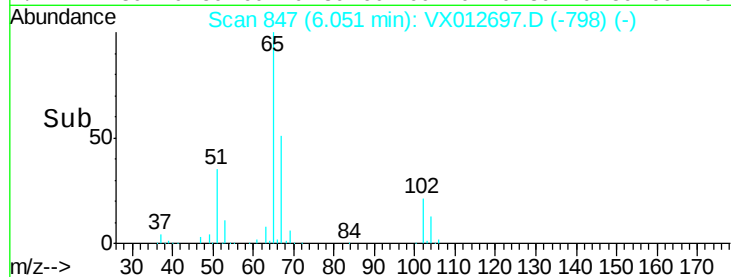
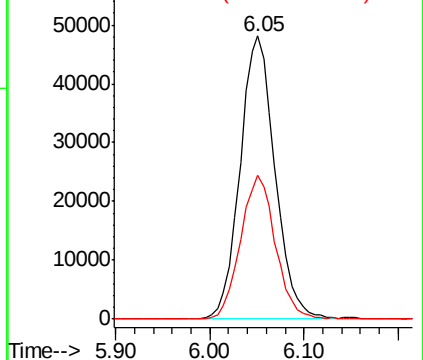
65 100

67 50.8 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

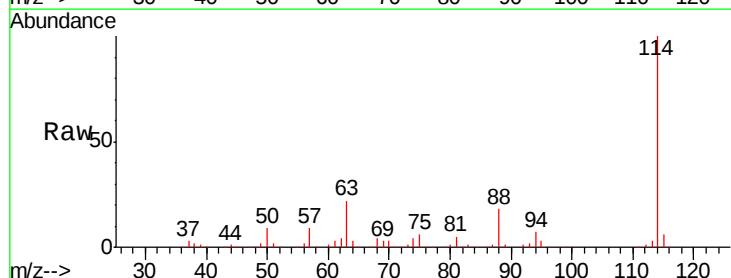
Tgt Ion: 114 Resp: 305156

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

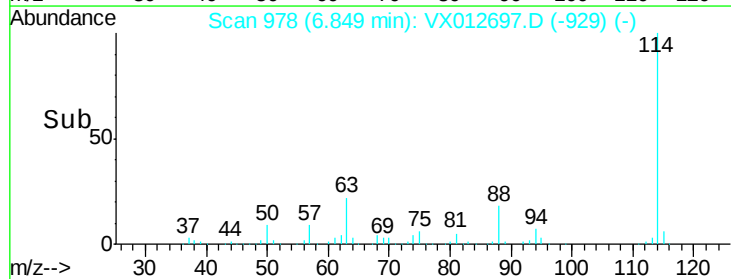
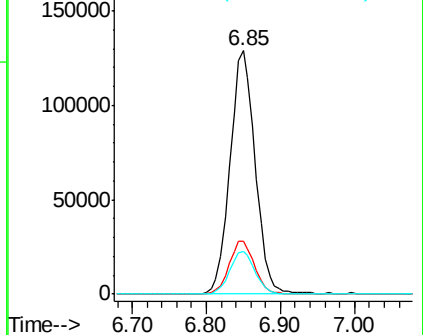
88 17.6 0.0 33.2

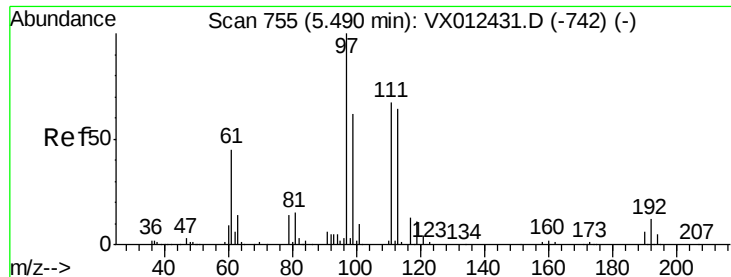


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.030 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ171I-20190925DL

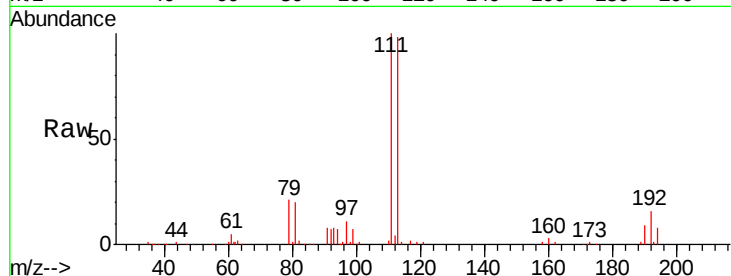
Tgt Ion:113 Resp: 92739

Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.2

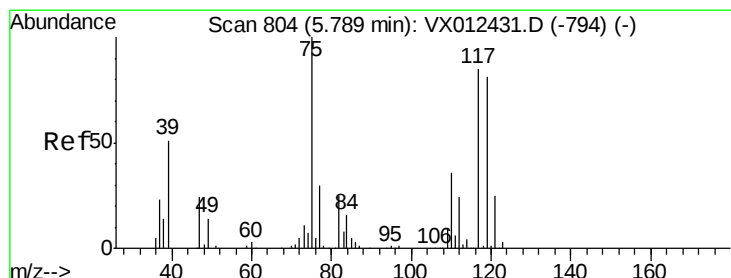
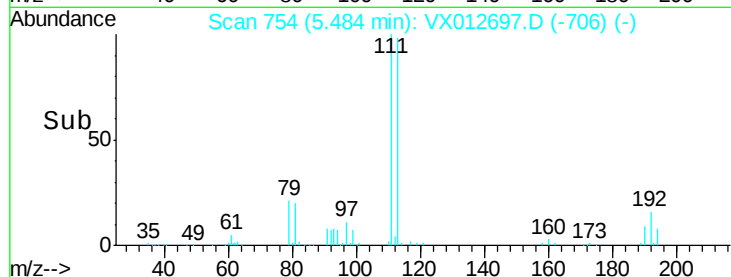
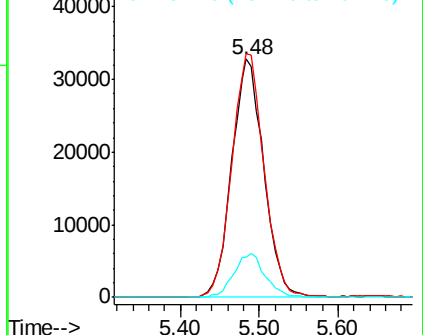
192 17.9 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.190 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

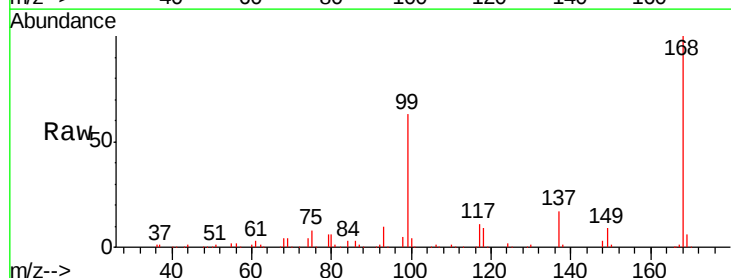
Tgt Ion: 75 Resp: 15267

Ion Ratio Lower Upper

75 100

110 9.2 16.7 50.0#

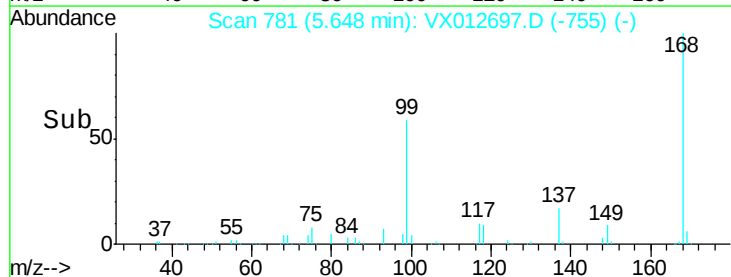
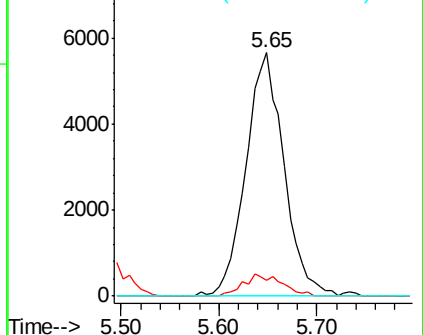
77 0.0 24.2 36.2#

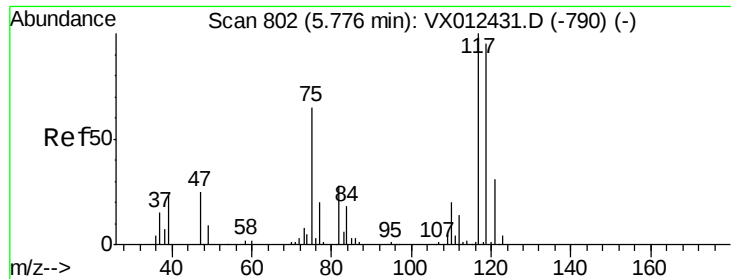


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.650 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ171I-20190925DL

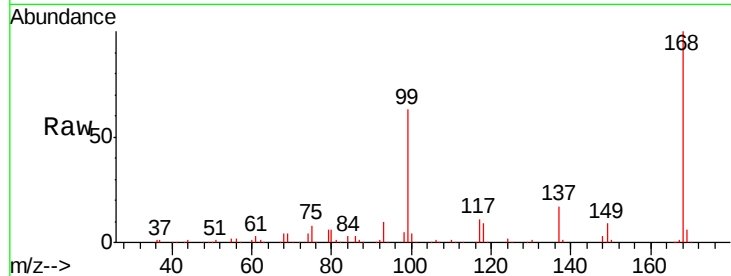
Tgt Ion:117 Resp: 19871

Ion Ratio Lower Upper

117 100

119 3.1 75.7 113.5#

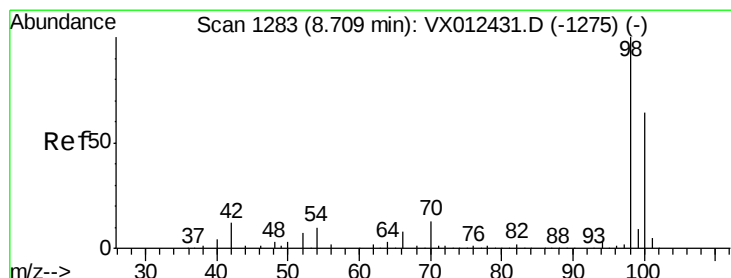
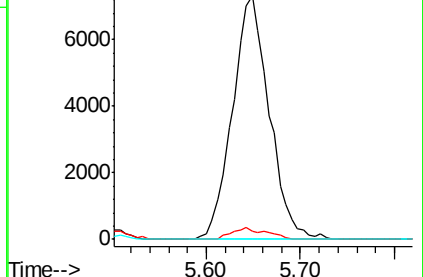
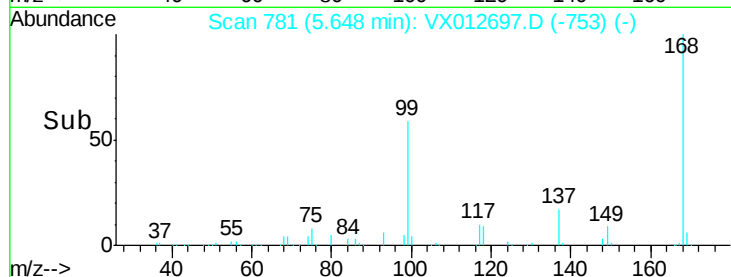
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 51.317 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012697.D

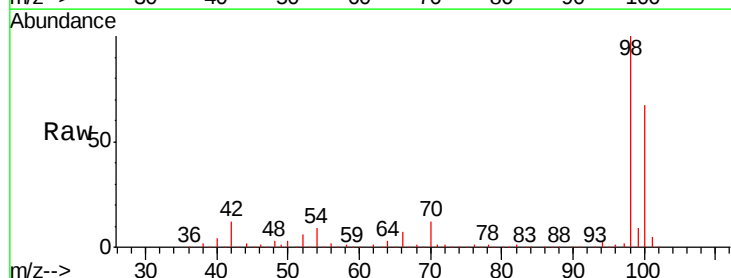
Acq: 30 Sep 2019 12:02

Tgt Ion: 98 Resp: 359152

Ion Ratio Lower Upper

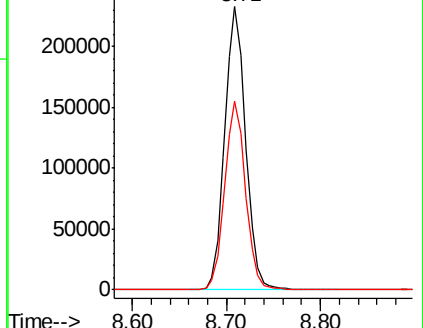
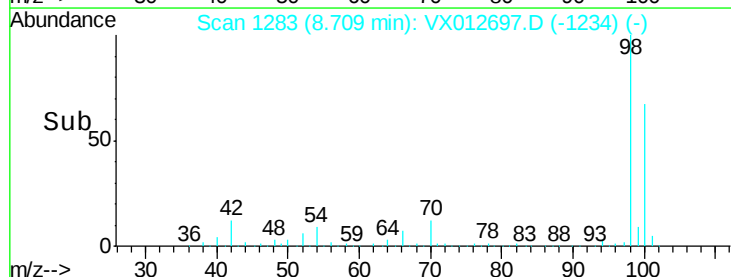
98 100

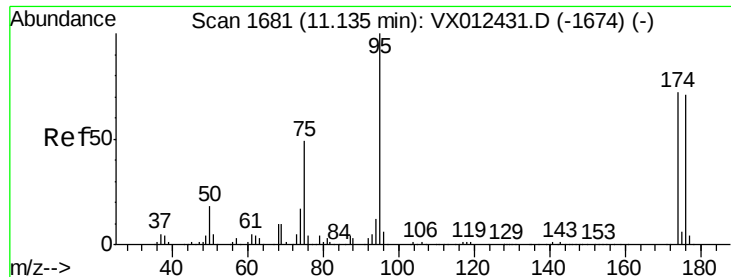
100 66.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.828 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ171I-20190925DL

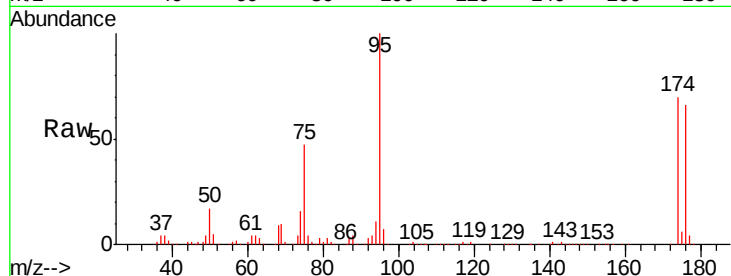
Tgt Ion: 95 Resp: 123363

Ion Ratio Lower Upper

95 100

174 68.7 0.0 140.0

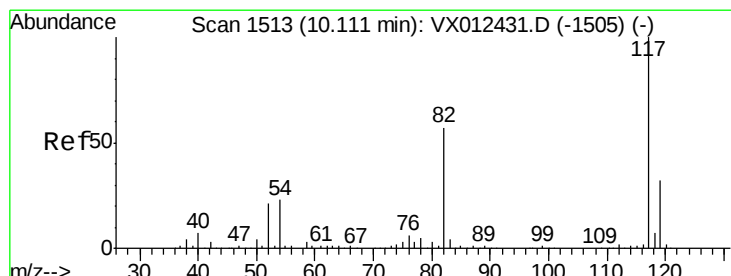
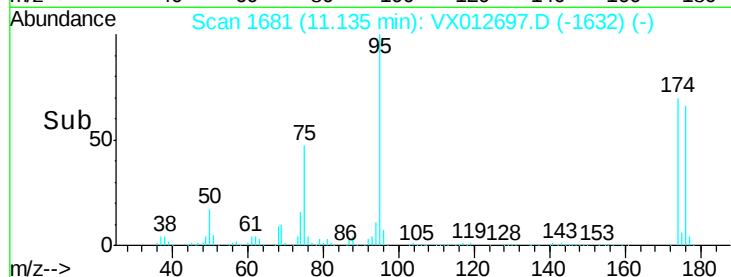
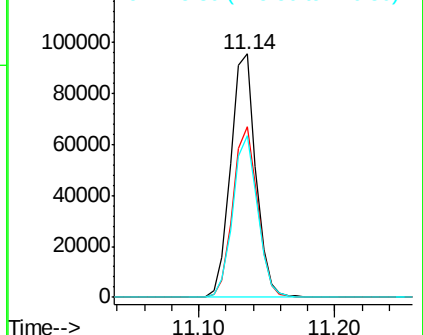
176 65.5 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

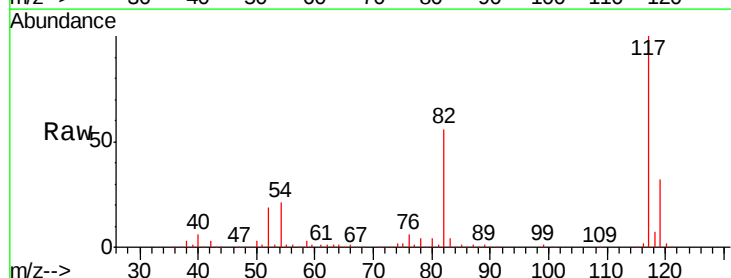
Tgt Ion: 117 Resp: 257927

Ion Ratio Lower Upper

117 100

82 56.4 45.9 68.9

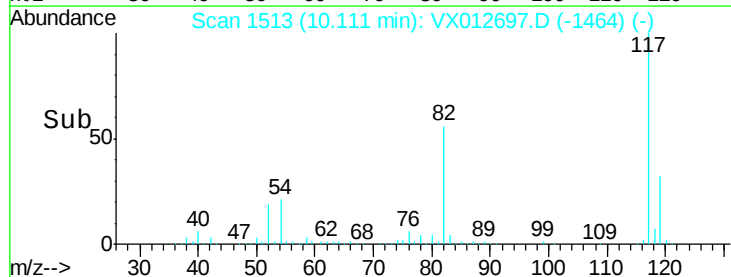
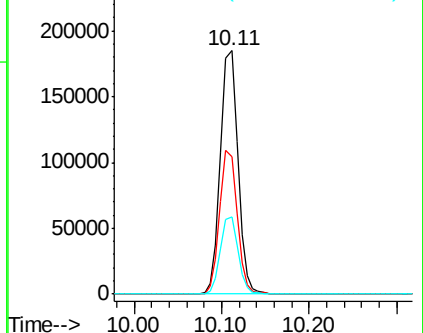
119 31.5 25.3 37.9

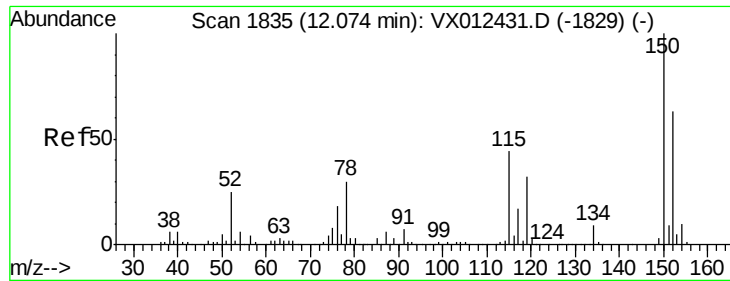


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012697.D

Acq: 30 Sep 2019 12:02

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ171I-20190925DL

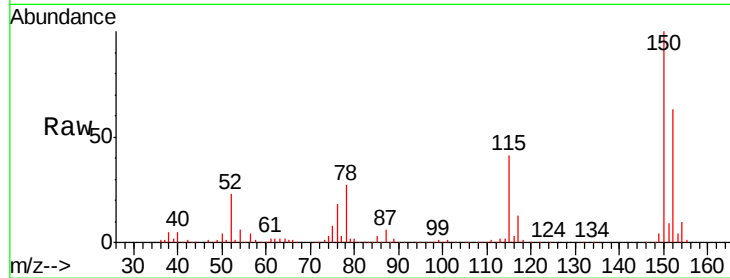
Tgt Ion:152 Resp: 99504

Ion Ratio Lower Upper

152 100

115 64.6 44.1 132.3

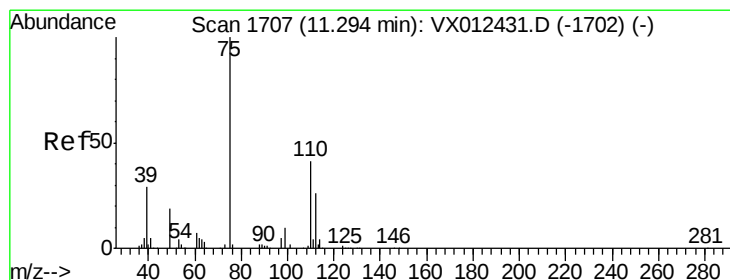
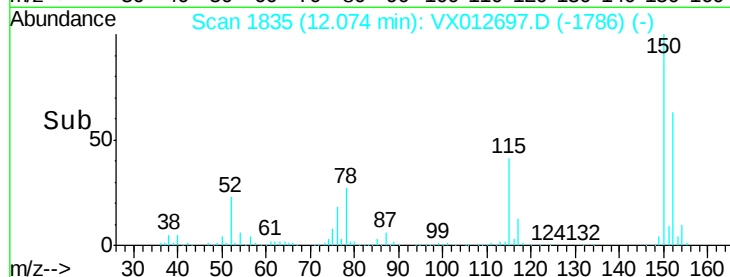
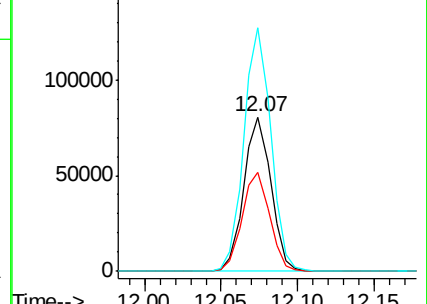
150 156.4 0.0 343.8



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: 24.058 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012697.D

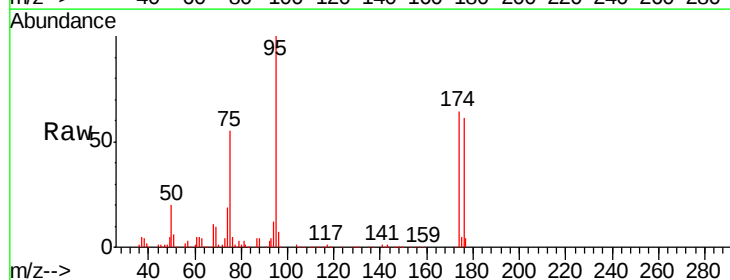
Acq: 30 Sep 2019 12:02

Tgt Ion: 75 Resp: 63323

Ion Ratio Lower Upper

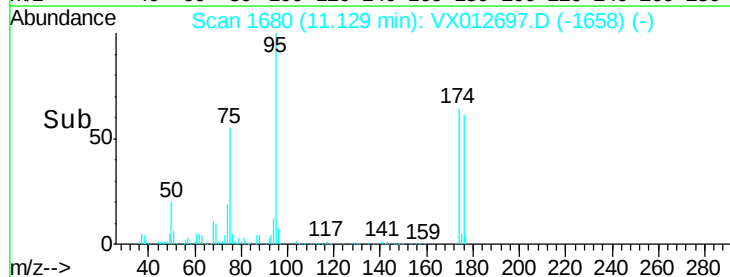
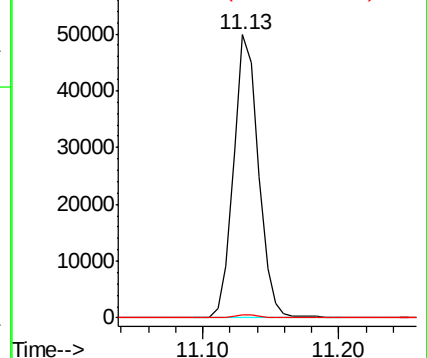
75 100

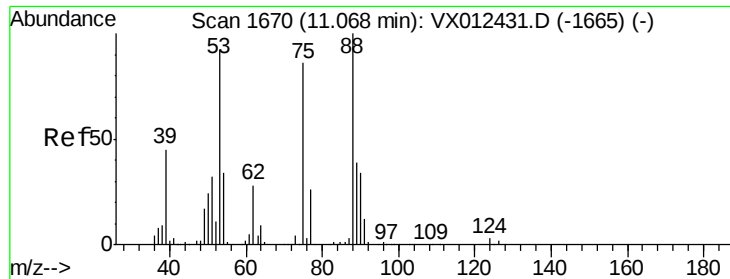
77 1.3 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

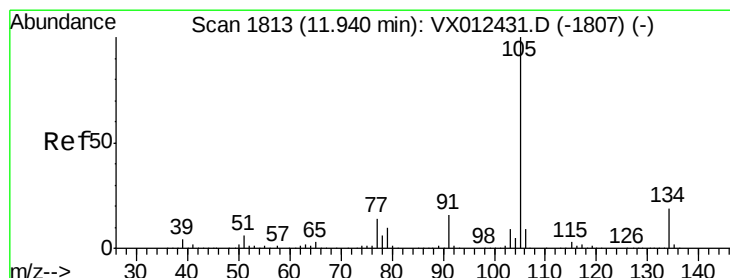
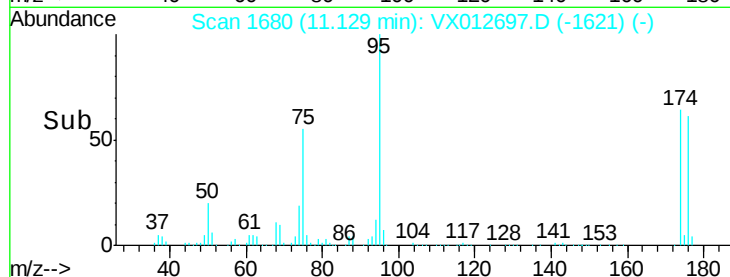
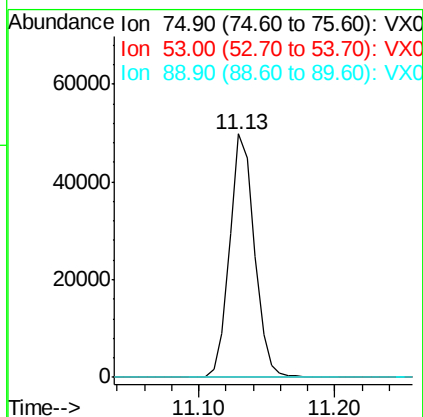
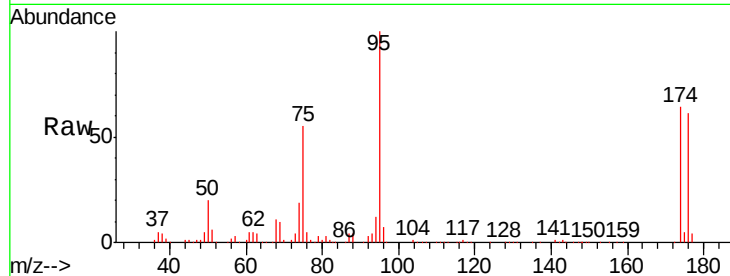




#81
trans-1,4-Dichloro-2-butene
Concen: 68.944 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX012697.D
Acq: 30 Sep 2019 12:02

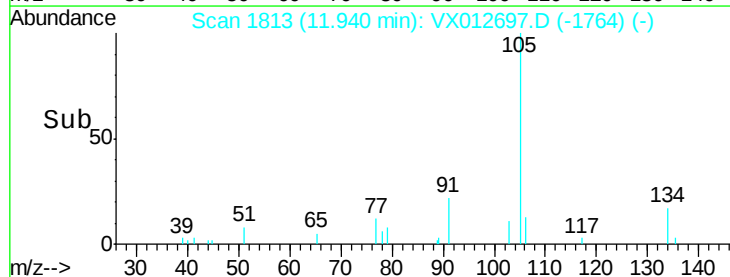
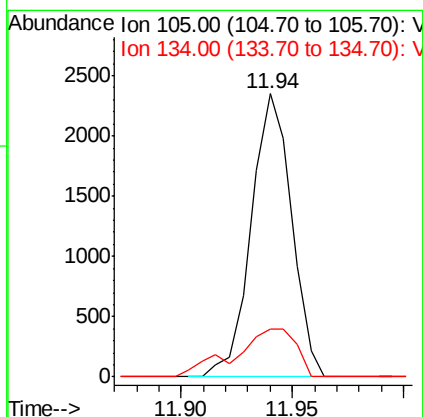
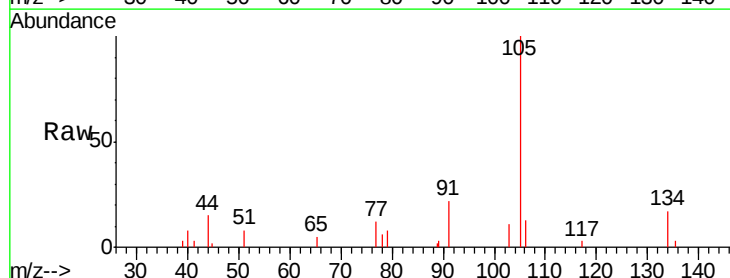
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ171I-20190925DL

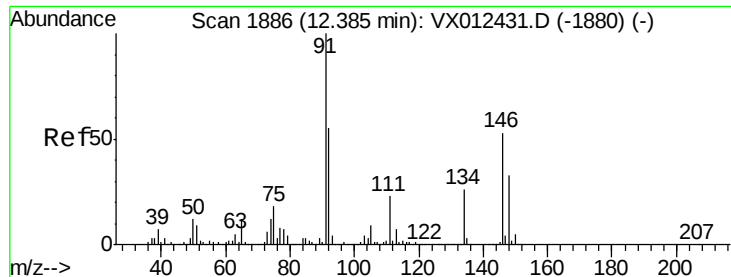
Tgt Ion: 75 Resp: 63323
Ion Ratio Lower Upper
75 100
53 0.0 83.6 125.4#
89 0.0 36.3 54.5#



#85
sec-Butylbenzene
Concen: 0.389 ug/l
RT: 11.94 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VX012697.D
Acq: 30 Sep 2019 12:02

Tgt Ion: 105 Resp: 2966
Ion Ratio Lower Upper
105 100
134 25.9 9.8 29.4

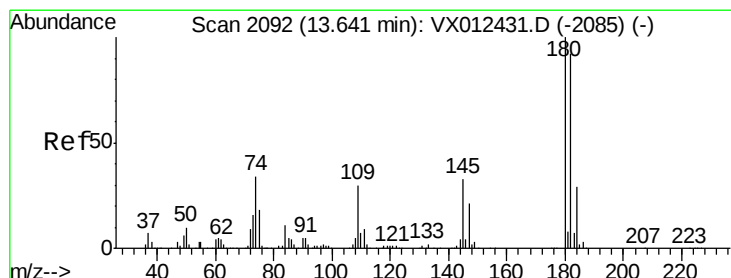
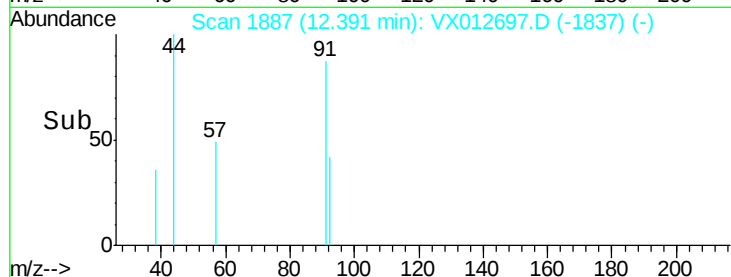
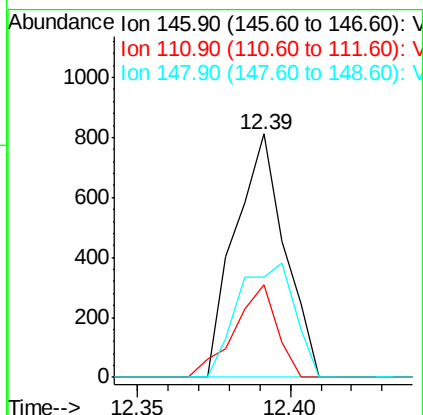
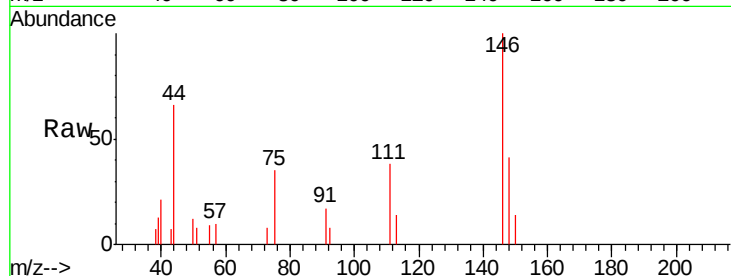




#91
 1,2-Dichlorobenzene
 Concen: 0.276 ug/l
 RT: 12.39 min Scan# 1887
 Delta R.T. 0.01 min
 Lab File: VX012697.D
 Acq: 30 Sep 2019 12:02

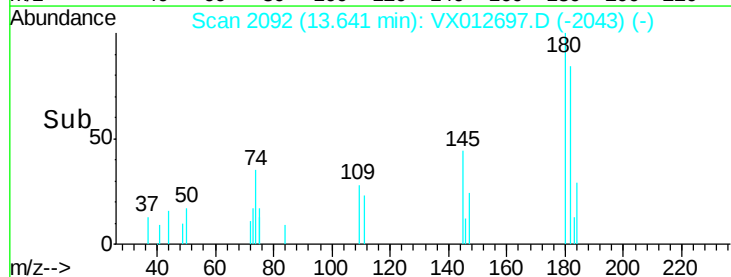
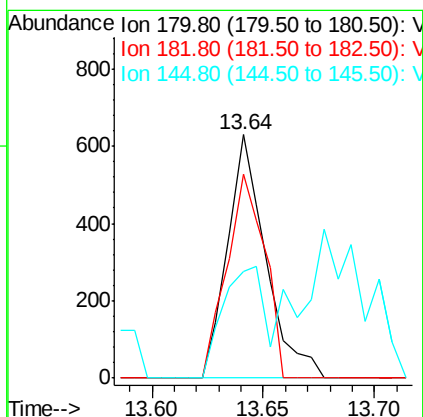
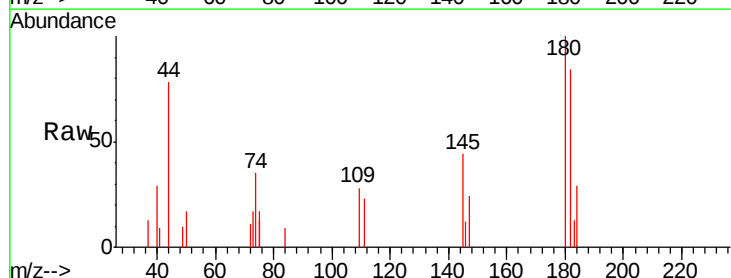
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ171I-20190925DL

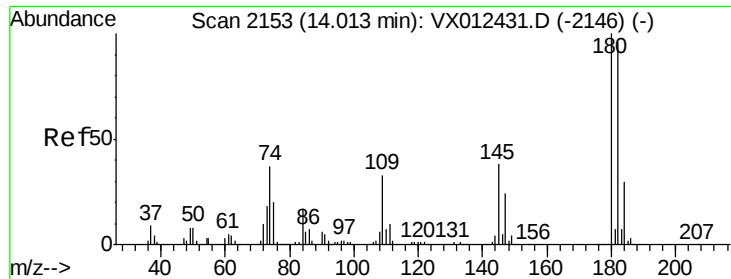
Tgt Ion:146 Resp: 912
 Ion Ratio Lower Upper
 146 100
 111 32.6 22.1 66.1
 148 53.8 31.3 93.9



#93
 1,2,4-Trichlorobenzene
 Concen: 0.374 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX012697.D
 Acq: 30 Sep 2019 12:02

Tgt Ion:180 Resp: 753
 Ion Ratio Lower Upper
 180 100
 182 82.6 47.0 141.0
 145 49.0 16.8 50.4





#96
 1,2,3-Trichlorobenzene
 Concen: 0.213 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX012697.D
 Acq: 30 Sep 2019 12:02

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ171I-20190925DL

Tgt Ion:180 Resp: 431
 Ion Ratio Lower Upper
 180 100
 182 73.5 47.1 141.3
 145 114.4 18.0 54.0#

