

Data File : VX002191.D
Acq On : 31 May 2018 22:10
Operator : JC/MD
Sample : I.BLK
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
I.BLK

Quant Time: Jun 01 03:51:12 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	51829	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	295794	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	253978	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	126303	30.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.23%
60) 4-Bromofluorobenzene	11.14	95	117489	27.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.07%
63) Toluene-d8	8.72	98	349432	30.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.90%

Target Compounds

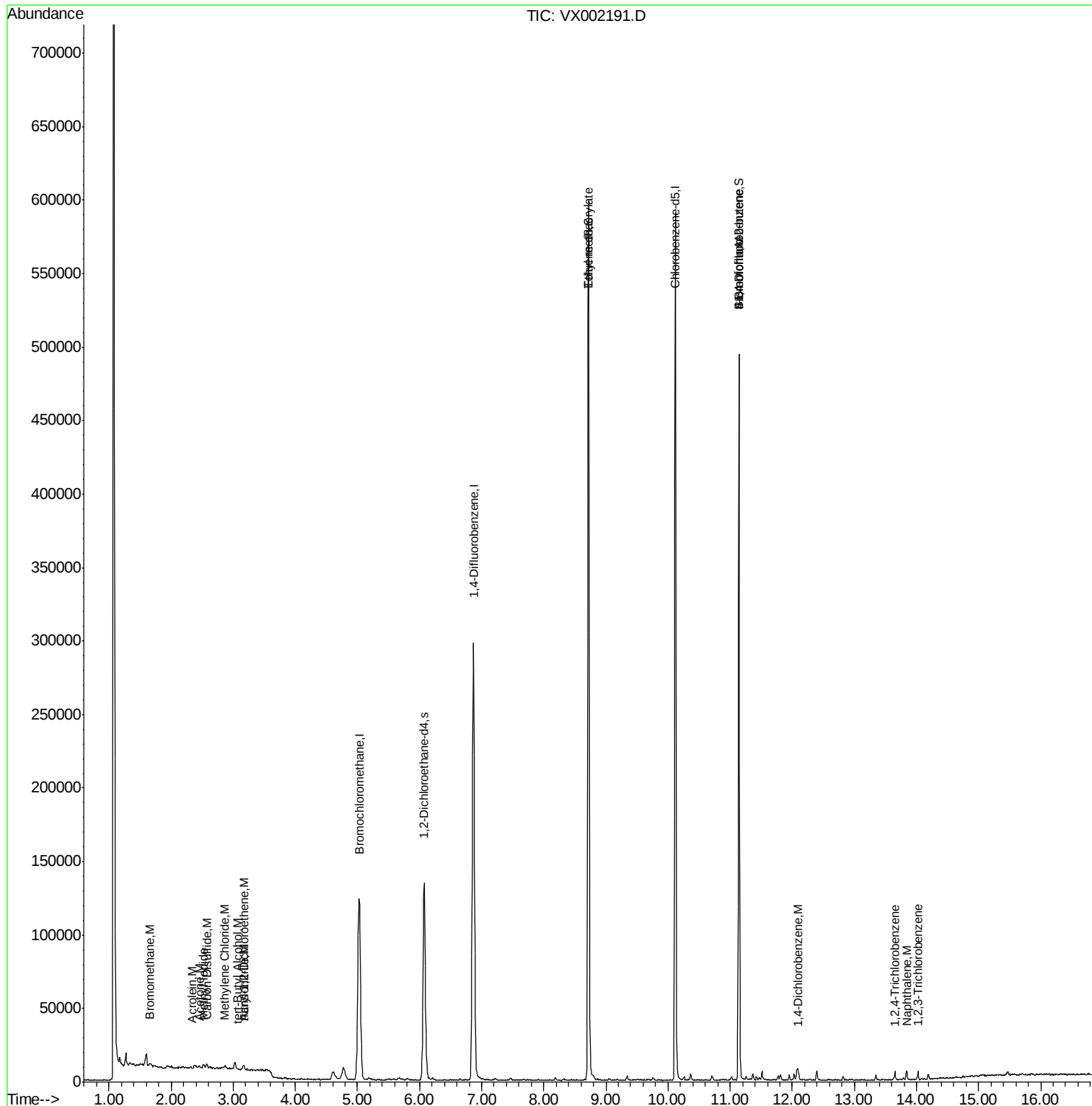
						Qvalue
5) Bromomethane	1.65	94	1620	0.89	ug/l	91
11) Methyl Iodide	2.52	142	3270	0.81	ug/l	97
13) Acrolein	2.34	56	84	0.24	ug/l	100
14) Acrylonitrile	3.16	53	816	0.47	ug/l	94
15) Acetone	2.45	58	580	1.27	ug/l #	20
16) Carbon Disulfide	2.57	76	3045	0.41	ug/l	98
18) Methylene Chloride	2.86	84	1191	0.41	ug/l #	93
19) trans-1,2-Dichloroethene	3.17	96	675	0.25	ug/l #	76
23) tert-Butyl Alcohol	3.07	59	208	0.23	ug/l #	72
51) Ethyl methacrylate	8.72	69	1190	0.21	ug/l	74
56) Bromoform	11.15	173	1751	0.50	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.14	75	61491	38.75	ug/l #	11
84) 1,4-Dichlorobenzene	12.10	146	1425	0.20	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	1483	0.29	ug/l	95
91) Naphthalene	13.84	128	3743	0.23	ug/l #	94
92) 1,2,3-Trichlorobenzene	14.02	180	1251	0.23	ug/l	94

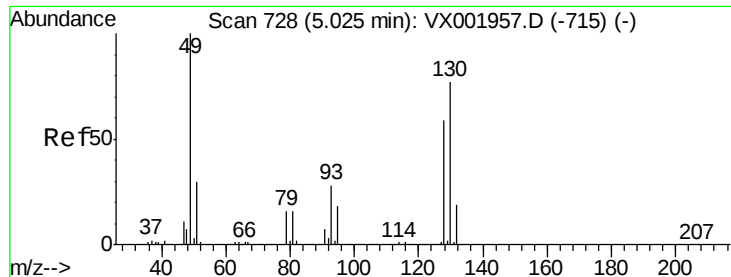
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

Instrument :

MSVOA_X

ClientSampled :

I.BLK

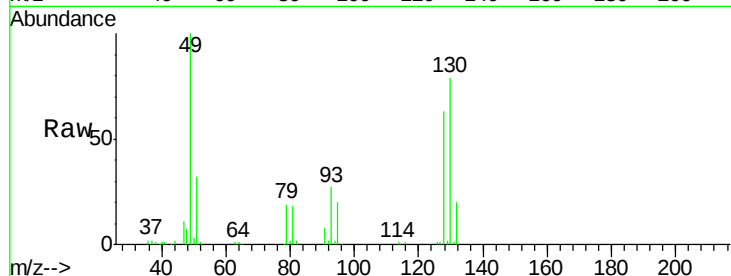
Tgt Ion:128 Resp: 51829

Ion Ratio Lower Upper

128 100

49 167.6 0.0 423.0

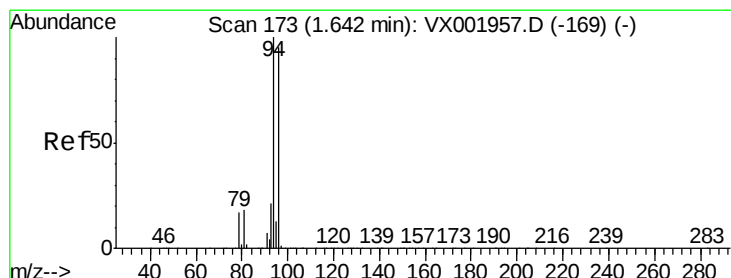
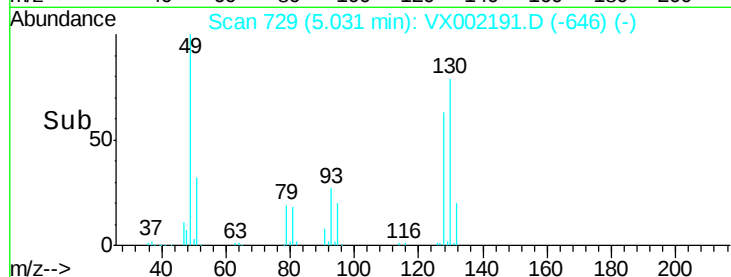
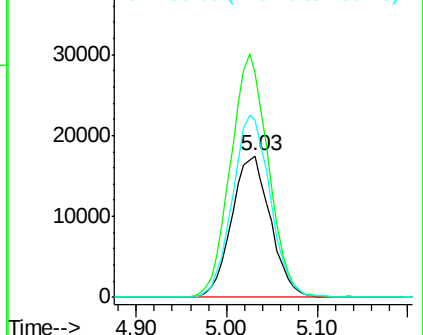
130 125.4 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.89 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX002191.D

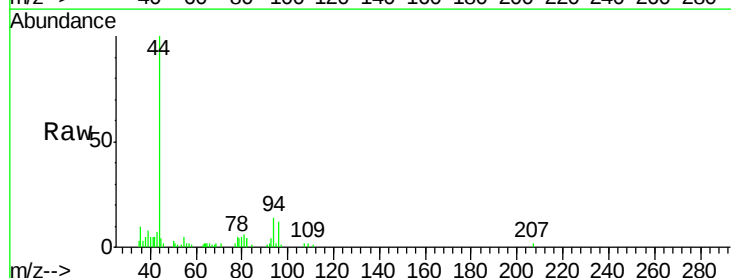
Acq: 31 May 2018 22:10

Tgt Ion: 94 Resp: 1620

Ion Ratio Lower Upper

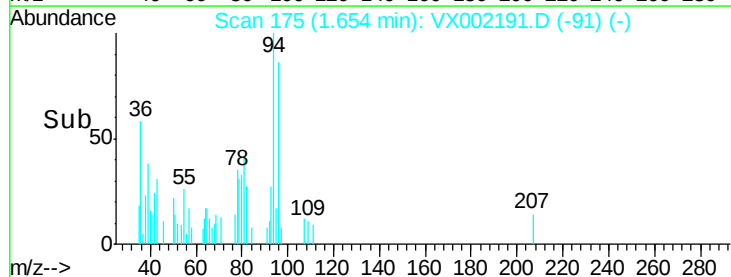
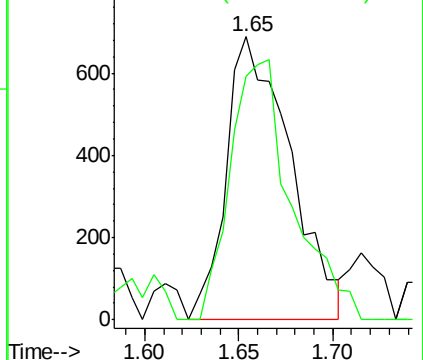
94 100

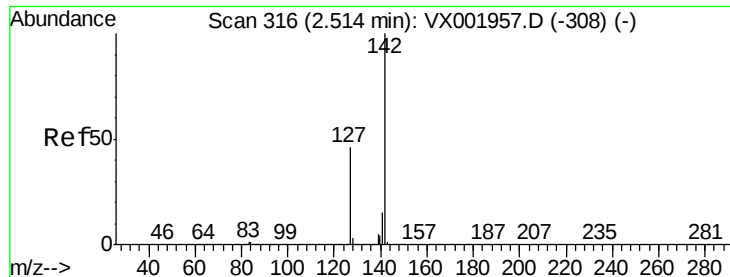
96 86.0 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

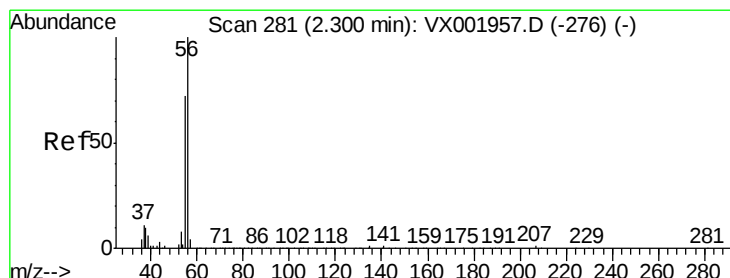
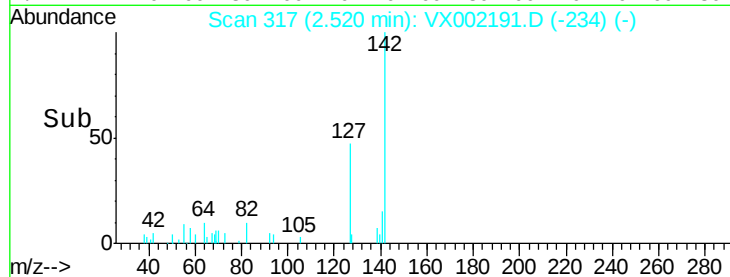
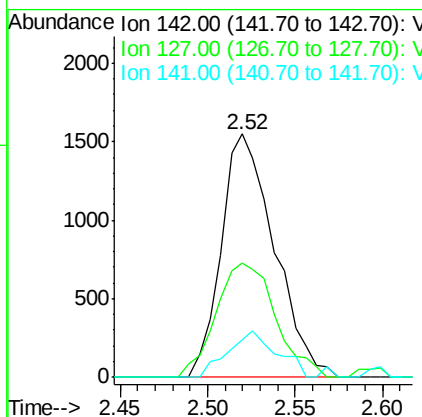
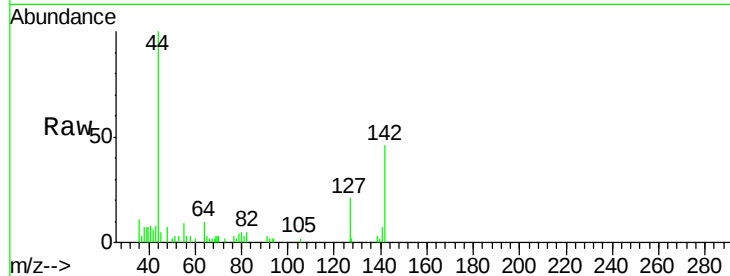




#11
Methyl Iodide
Concen: 0.81 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

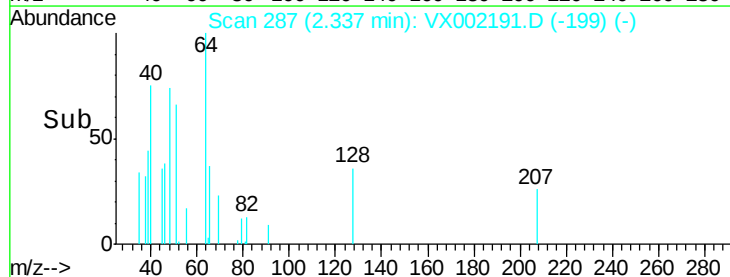
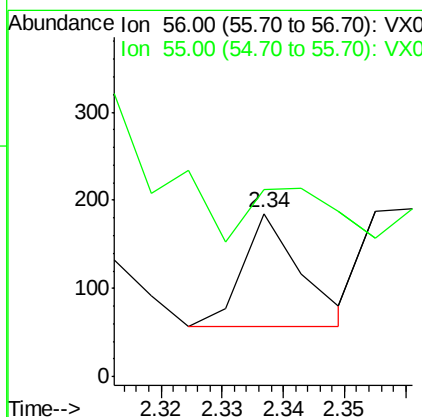
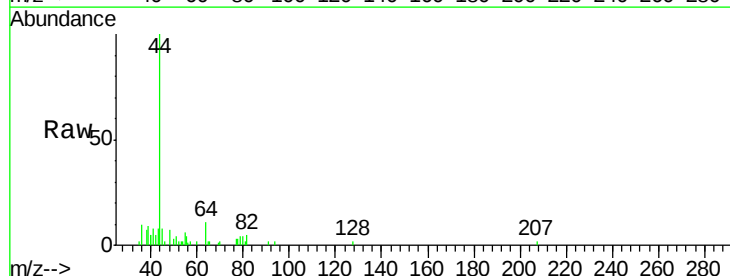
Instrument :
MSVOA_X
ClientSampled :
I.BLK

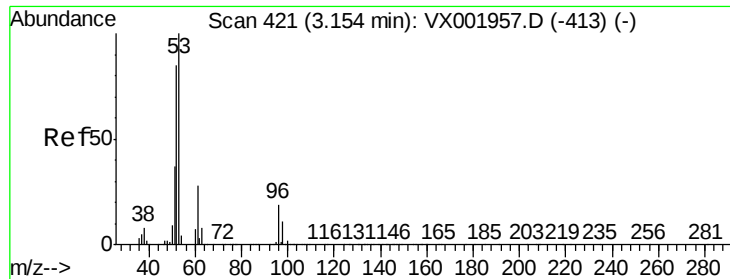
Tgt Ion: 142 Resp: 3270
Ion Ratio Lower Upper
142 100
127 48.6 23.2 69.6
141 15.4 7.4 22.2



#13
Acrolein
Concen: 0.24 ug/l
RT: 2.34 min Scan# 287
Delta R.T. 0.04 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

Tgt Ion: 56 Resp: 84
Ion Ratio Lower Upper
56 100
55 71.4 57.3 85.9





#14

Acrylonitrile

Concen: 0.47 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

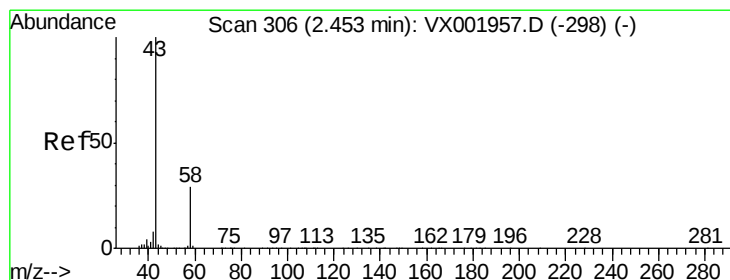
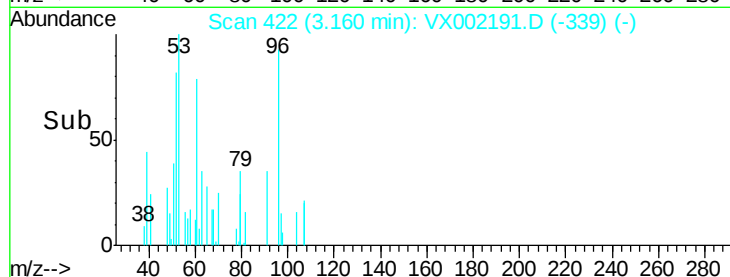
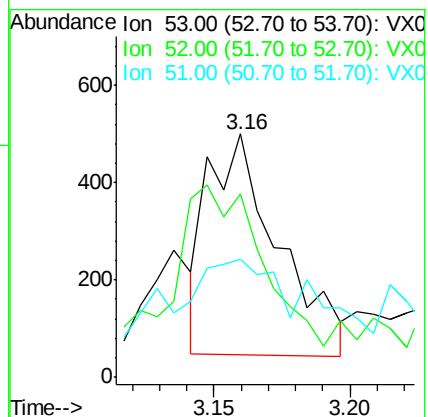
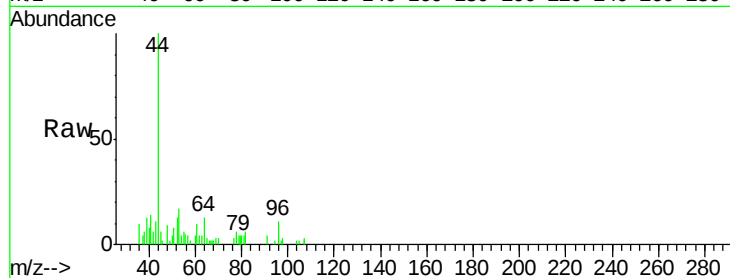
Tgt Ion: 53 Resp: 816

Ion Ratio Lower Upper

53 100

52 84.4 41.5 124.6

51 25.4 17.9 53.8



#15

Acetone

Concen: 1.27 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002191.D

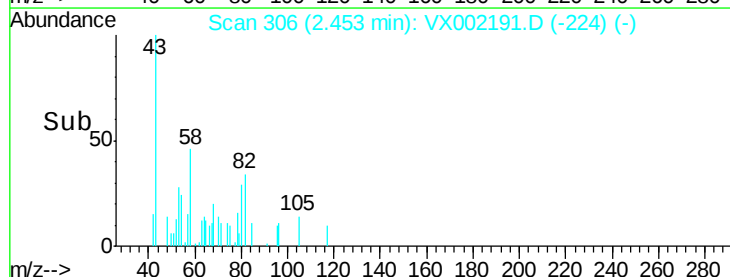
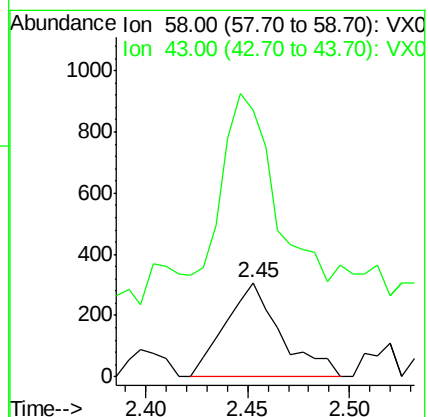
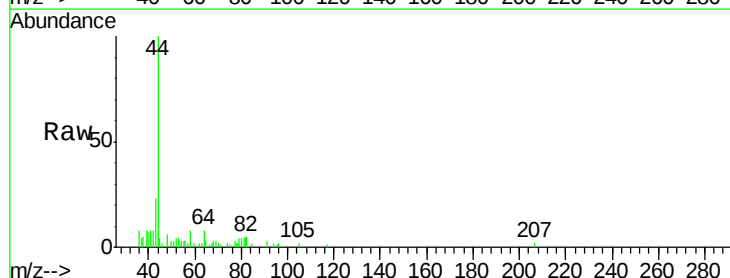
Acq: 31 May 2018 22:10

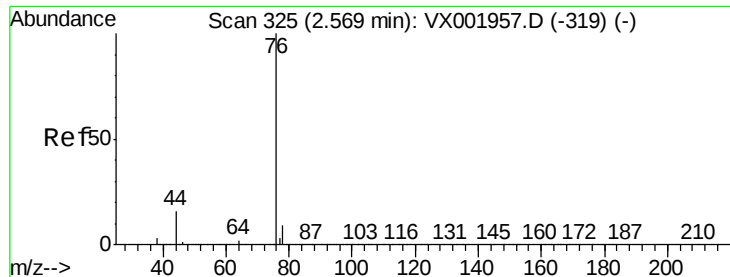
Tgt Ion: 58 Resp: 580

Ion Ratio Lower Upper

58 100

43 175.6 278.8 418.2#

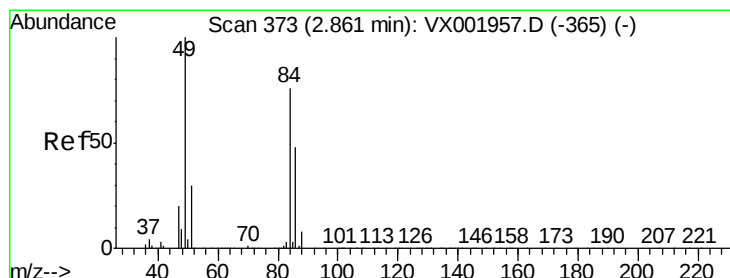
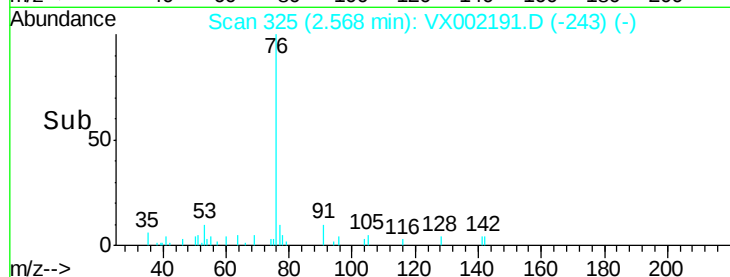
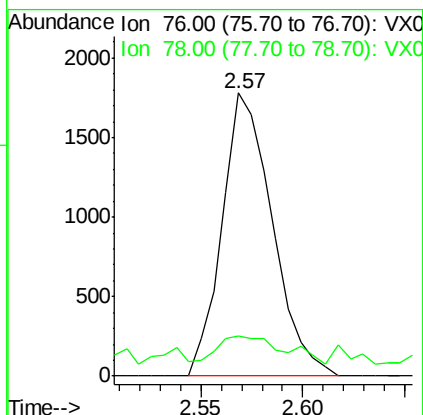
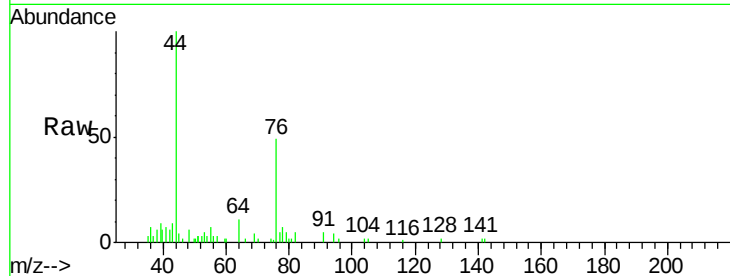




#16
Carbon Disulfide
Concen: 0.41 ug/l
RT: 2.57 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

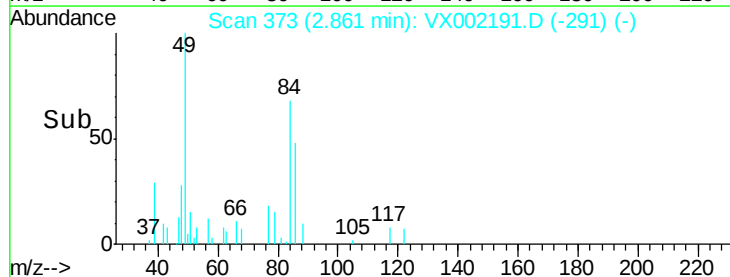
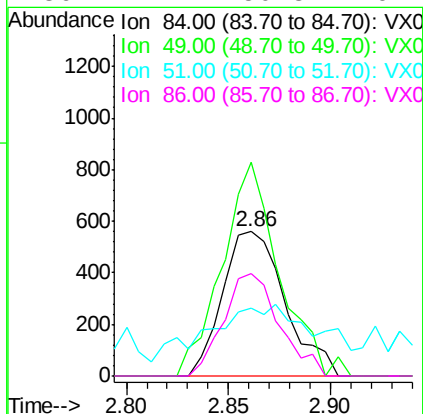
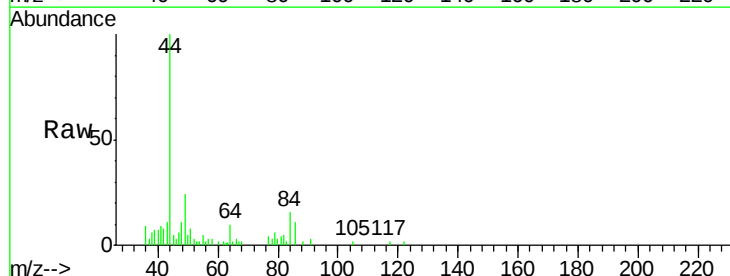
Instrument :
MSVOA_X
ClientSampleId :
I.BLK

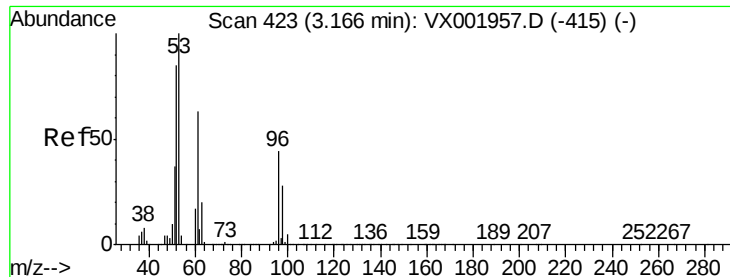
Tgt Ion: 76 Resp: 3045
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0



#18
Methylene Chloride
Concen: 0.41 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

Tgt Ion: 84 Resp: 1191
Ion Ratio Lower Upper
84 100
49 134.5 104.7 157.1
51 28.6 31.0 46.4#
86 71.4 50.8 76.2

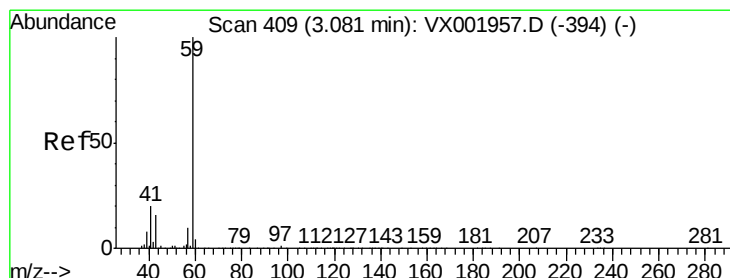
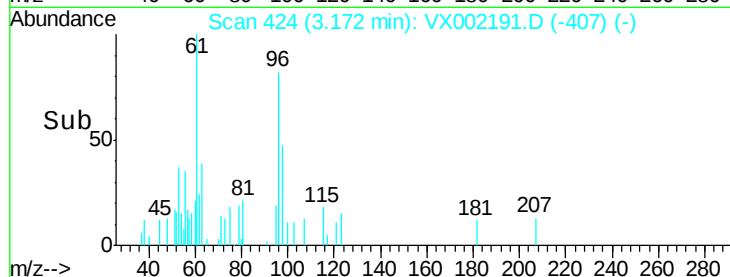
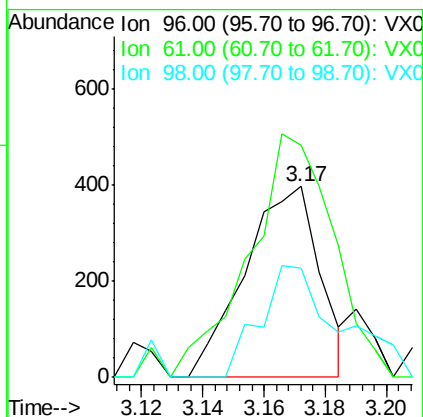
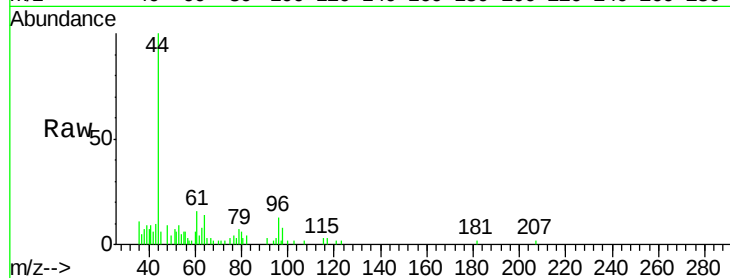




#19
trans-1,2-Dichloroethene
Concen: 0.25 ug/l
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

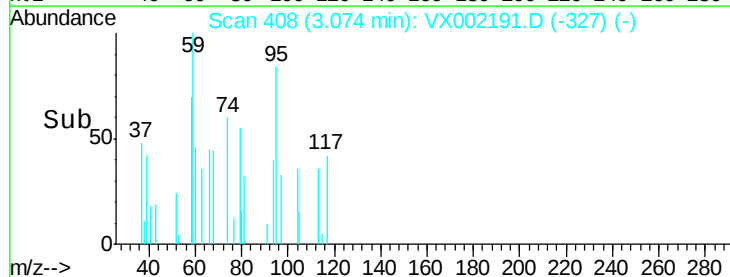
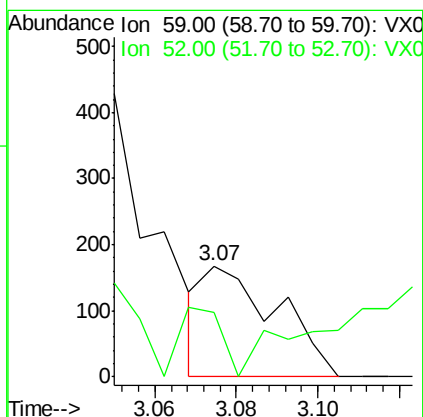
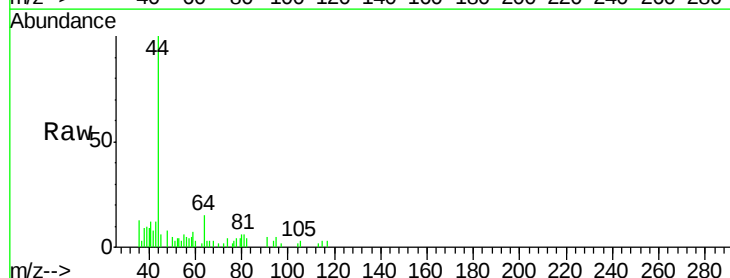
Instrument :
MSVOA_X
ClientSampled :
I.BLK

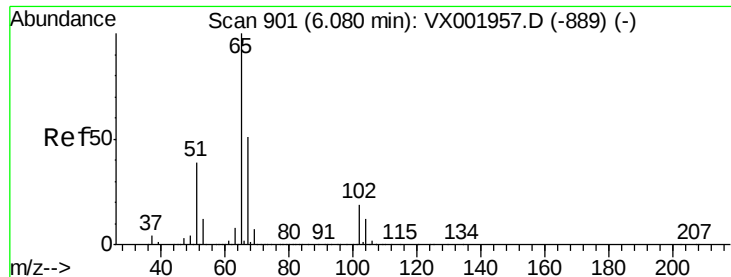
Tgt Ion: 96 Resp: 675
Ion Ratio Lower Upper
96 100
61 105.8 114.6 172.0#
98 57.6 51.3 76.9



#23
tert-Butyl Alcohol
Concen: 0.23 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

Tgt Ion: 59 Resp: 208
Ion Ratio Lower Upper
59 100
52 35.6 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.97 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

Instrument :

MSVOA_X

ClientSampleId :

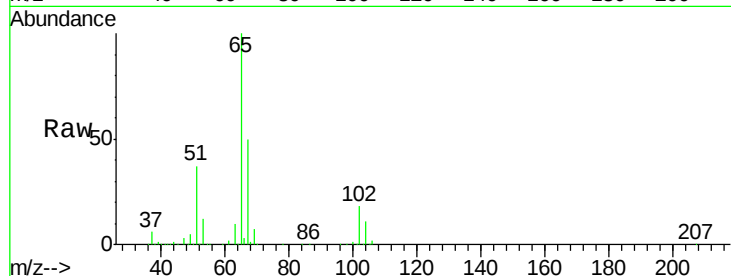
I.BLK

Tgt Ion: 65 Resp: 126303

Ion Ratio Lower Upper

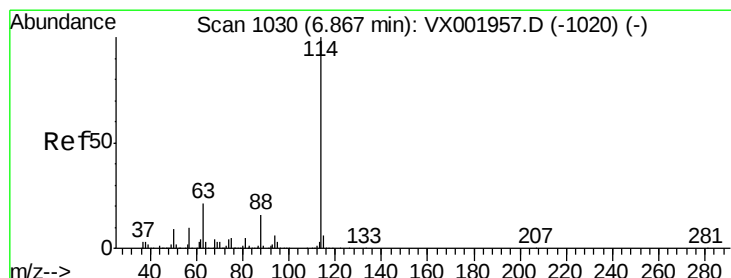
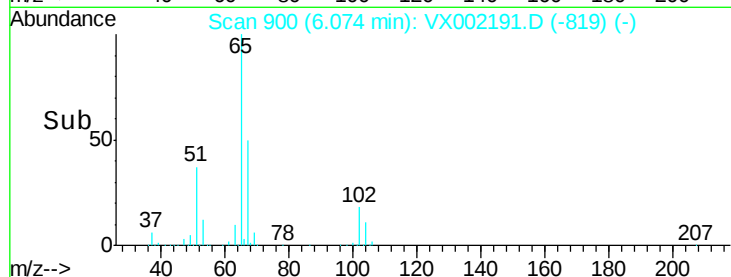
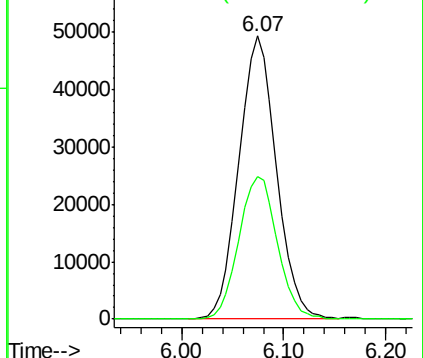
65 100

67 51.6 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

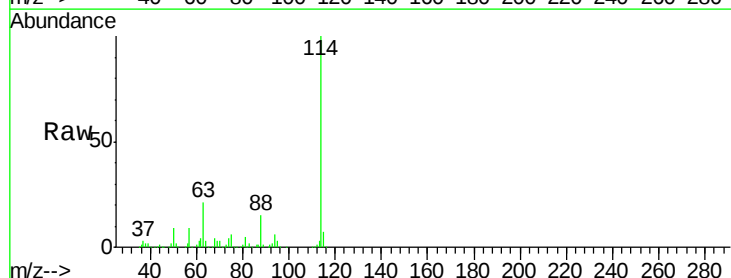
Tgt Ion: 114 Resp: 295794

Ion Ratio Lower Upper

114 100

63 21.6 17.1 25.7

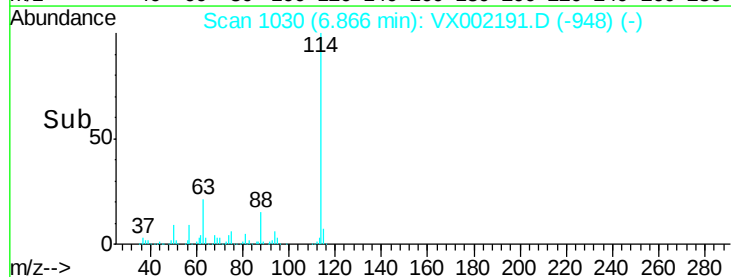
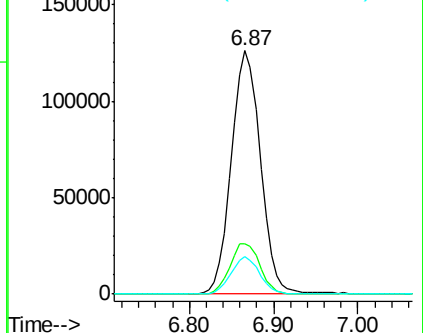
88 15.3 12.6 19.0

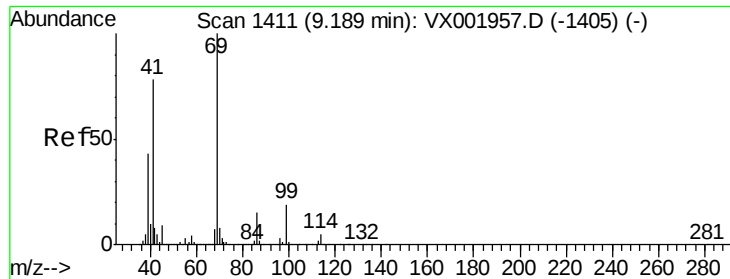


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#51

Ethyl methacrylate

Concen: 0.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.47 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

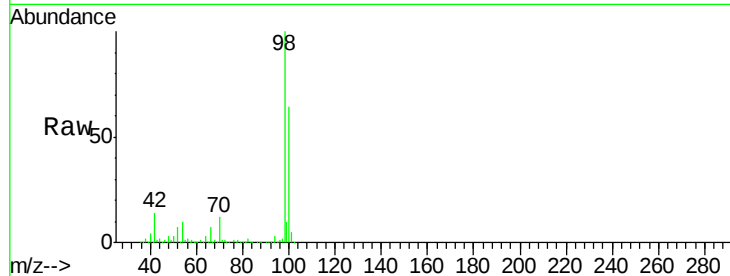
Tgt Ion: 69 Resp: 1190

Ion Ratio Lower Upper

69 100

41 111.7 39.1 117.3

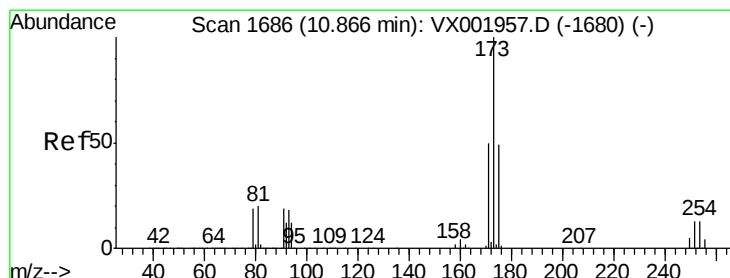
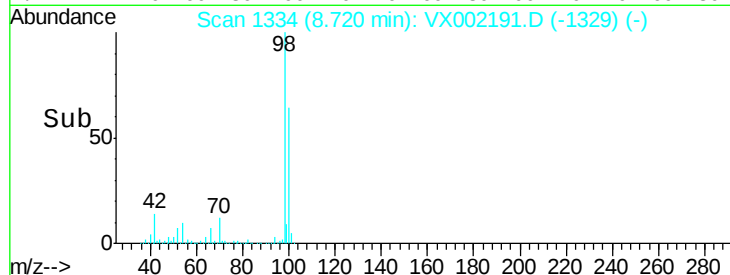
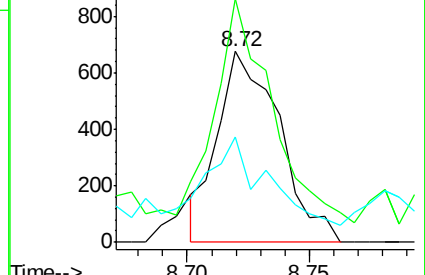
39 46.3 21.7 65.1



Abundance Ion 69.00 (68.70 to 69.70): VX002191.D (-1329) (-)

Ion 41.00 (40.70 to 41.70): VX002191.D (-1329) (-)

Ion 39.00 (38.70 to 39.70): VX002191.D (-1329) (-)



#56

Bromoform

Concen: 0.50 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.28 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

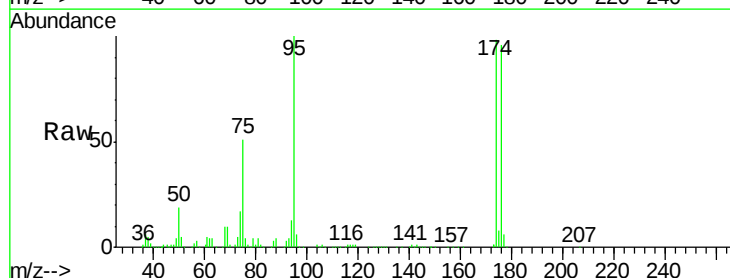
Tgt Ion: 173 Resp: 1751

Ion Ratio Lower Upper

173 100

175 469.0 39.0 58.4#

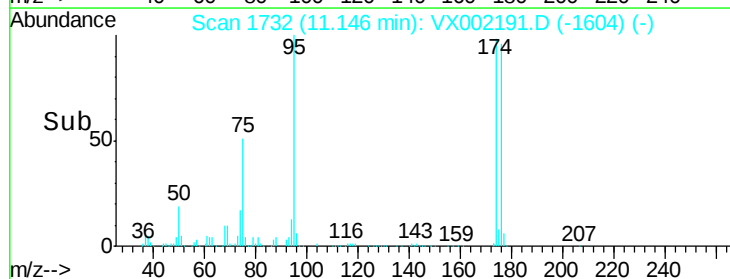
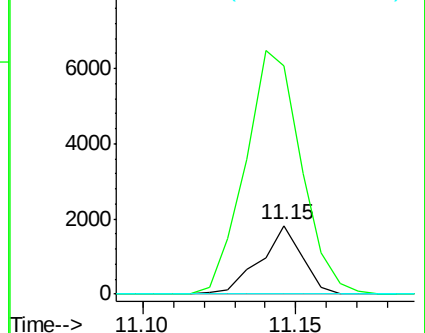
254 0.0 9.6 14.4#

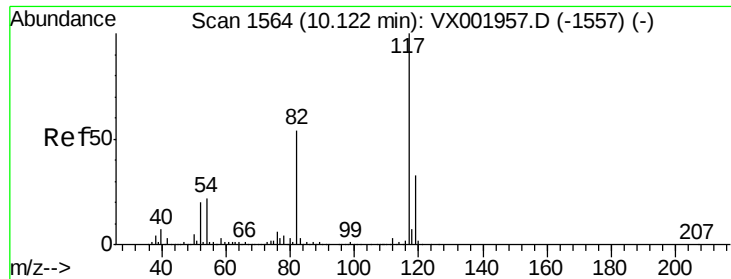


Abundance Ion 173.00 (172.70 to 173.70): VX002191.D (-1604) (-)

Ion 175.00 (174.70 to 175.70): VX002191.D (-1604) (-)

Ion 254.00 (253.70 to 254.70): VX002191.D (-1604) (-)

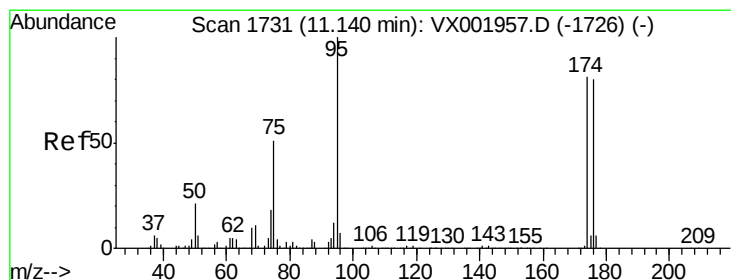
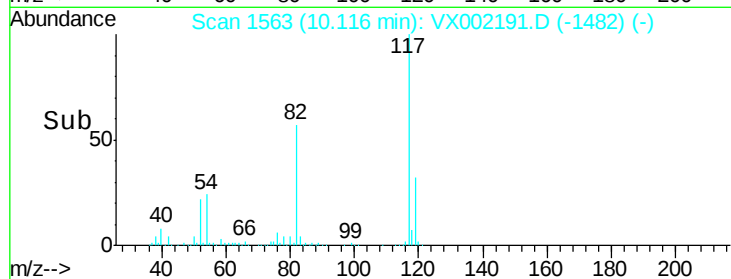
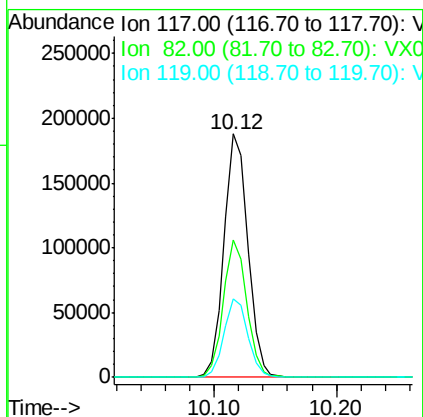
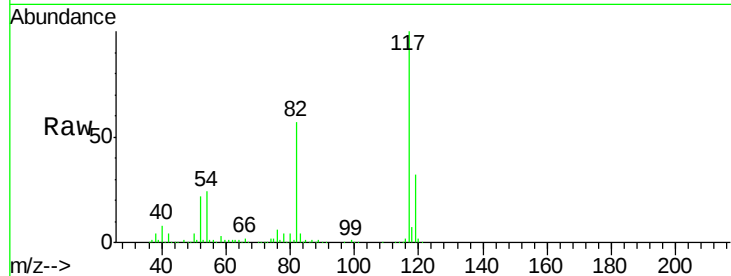




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

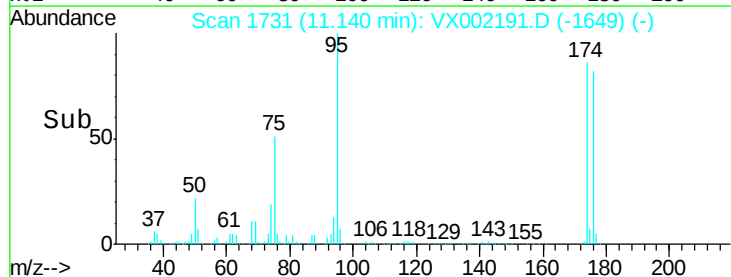
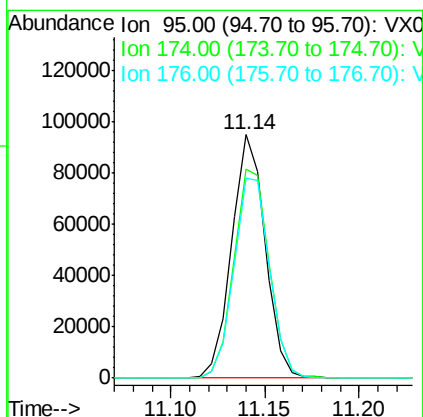
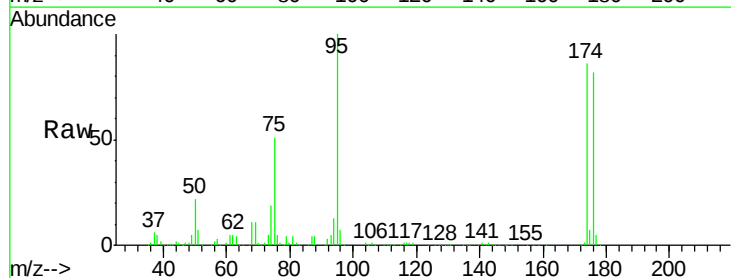
Instrument :
MSVOA_X
ClientSampled :
I.BLK

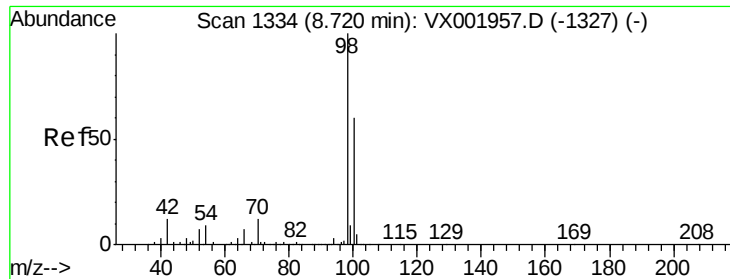
Tgt Ion: 117 Resp: 253978
Ion Ratio Lower Upper
117 100
82 55.8 44.3 66.5
119 32.2 25.7 38.5



#60
4-Bromofluorobenzene
Concen: 27.02 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

Tgt Ion: 95 Resp: 117489
Ion Ratio Lower Upper
95 100
174 90.4 71.8 107.6
176 87.4 70.1 105.1

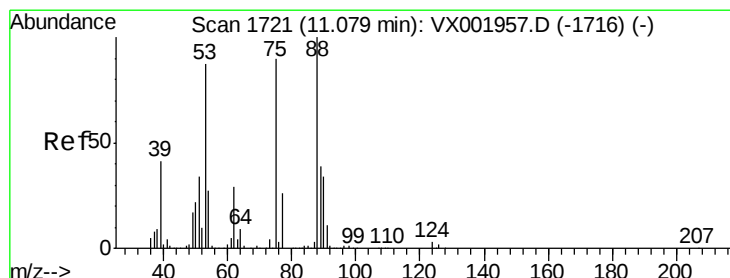
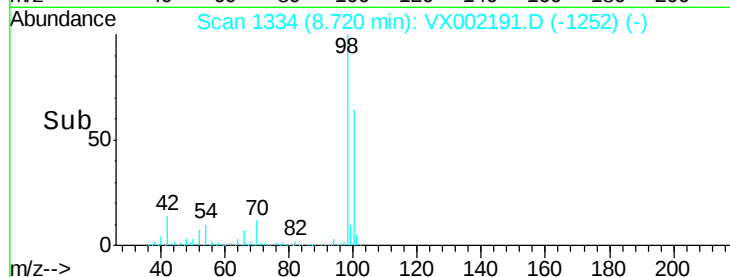
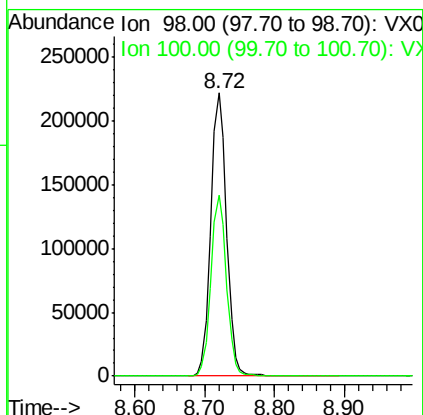
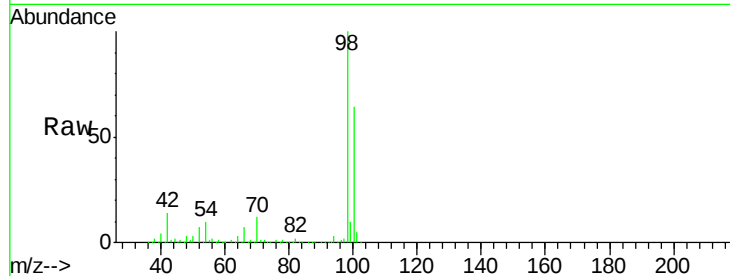




#63
Toluene-d8
Concen: 30.87 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

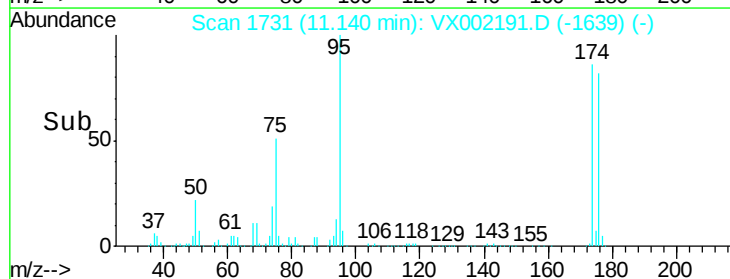
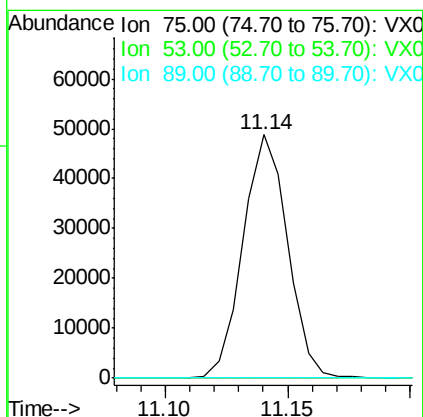
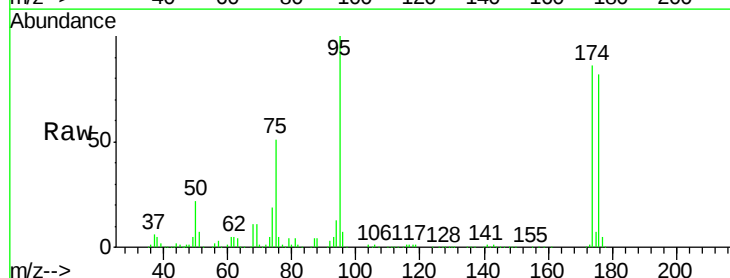
Instrument :
MSVOA_X
ClientSampleId :
I.BLK

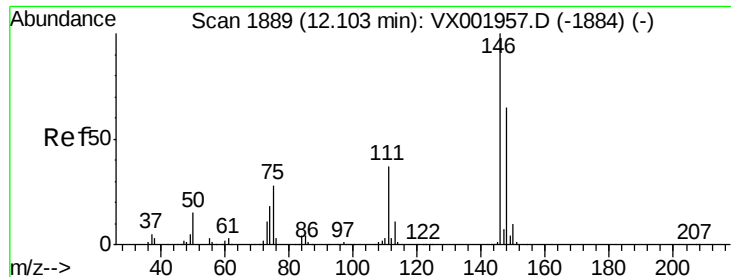
Tgt Ion: 98 Resp: 349432
Ion Ratio Lower Upper
98 100
100 62.9 50.8 76.2



#77
t-1,4-Dichloro-2-butene
Concen: 38.75 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002191.D
Acq: 31 May 2018 22:10

Tgt Ion: 75 Resp: 61491
Ion Ratio Lower Upper
75 100
53 0.0 48.3 144.9#
89 0.0 21.8 65.4#





#84

1,4-Dichlorobenzene

Concen: 0.20 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

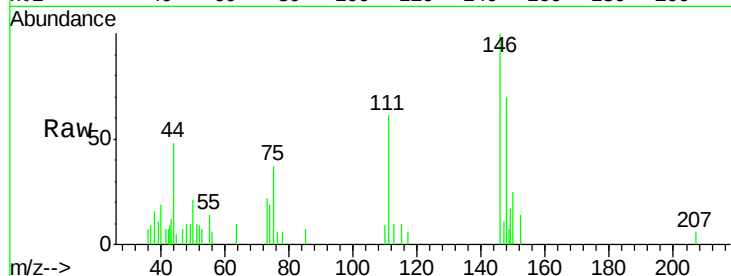
Tgt Ion:146 Resp: 1425

Ion Ratio Lower Upper

146 100

111 49.6 18.5 55.5

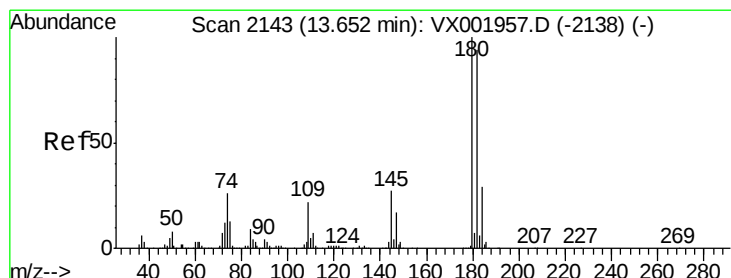
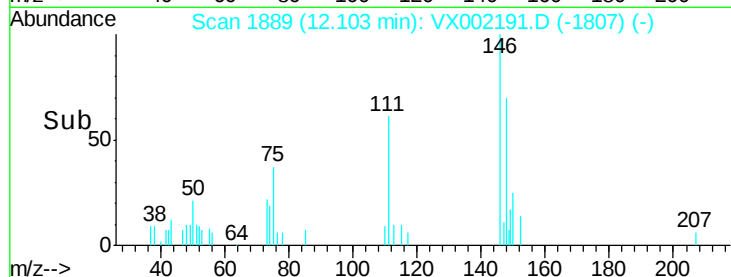
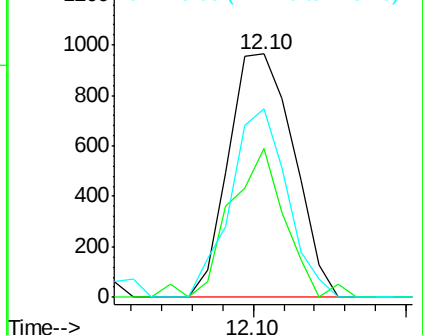
148 67.4 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.29 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

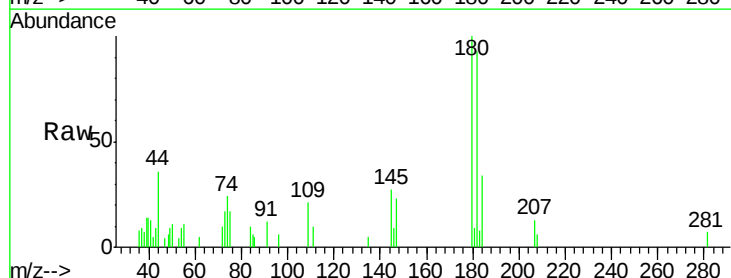
Tgt Ion:180 Resp: 1483

Ion Ratio Lower Upper

180 100

182 89.7 76.4 114.6

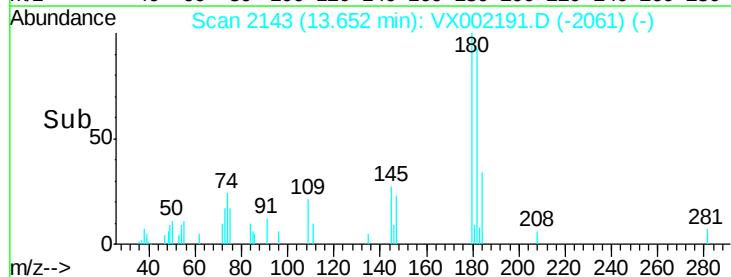
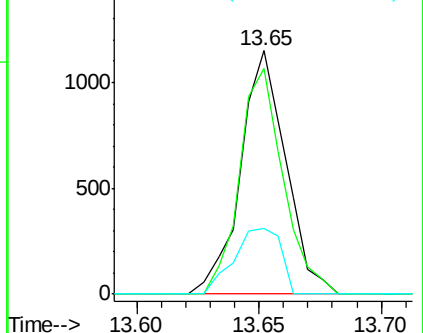
145 27.8 22.9 34.3

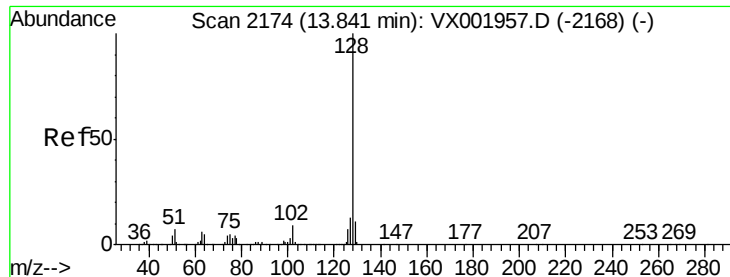


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 0.23 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

Instrument :

MSVOA_X

ClientSampleId :

I.BLK

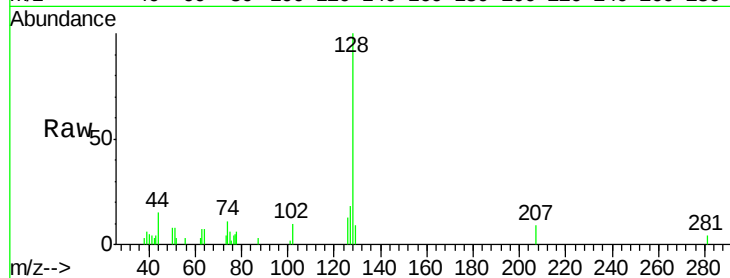
Tgt Ion:128 Resp: 3743

Ion Ratio Lower Upper

128 100

127 15.7 10.3 15.5#

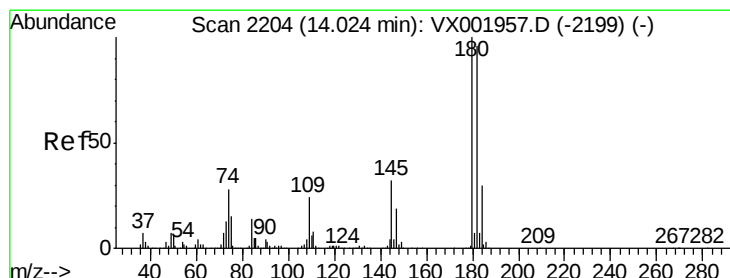
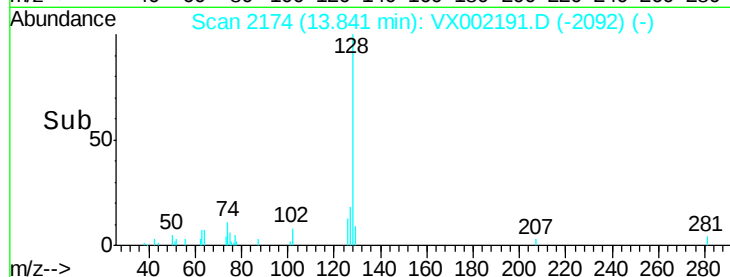
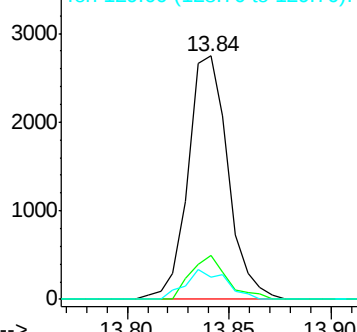
129 12.5 8.9 13.3



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



#92

1,2,3-Trichlorobenzene

Concen: 0.23 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX002191.D

Acq: 31 May 2018 22:10

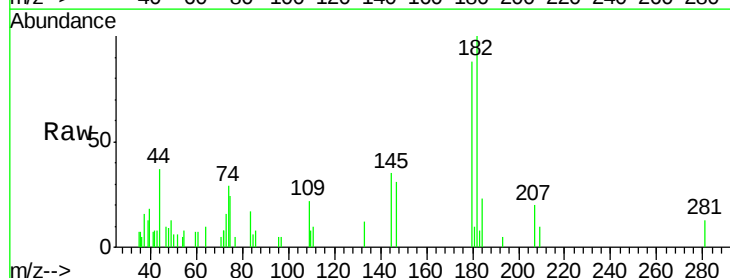
Tgt Ion:180 Resp: 1251

Ion Ratio Lower Upper

180 100

182 99.8 0.0 191.0

145 35.7 0.0 60.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

