

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX021819\
 Data File : VX007598.D
 Acq On : 18 Feb 2019 19:32
 Operator : JC/SP
 Sample : K1517-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 G-021519

Quant Time: Feb 19 04:15:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	444073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	719353	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	696289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	330086	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	253512	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	
35) Dibromofluoromethane	5.50	113	234987	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
50) Toluene-d8	8.71	98	886204	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	11.13	95	309316	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	

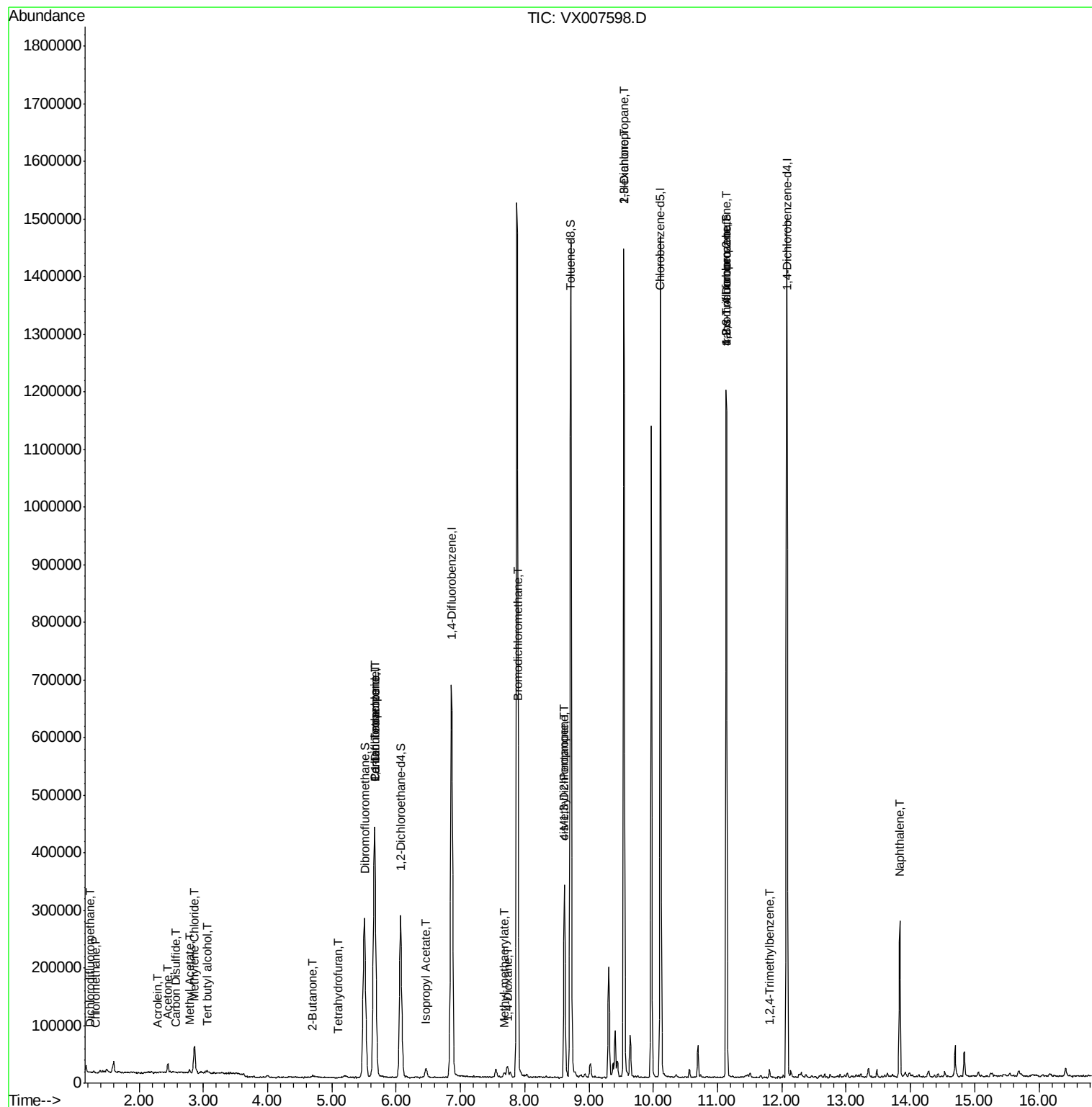
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.24	85	236	0.221	ug/l #	43
3) Chloromethane	1.33	50	1206	0.241	ug/l #	81
5) Bromomethane	1.67	94	124	Below Cal	#	1
11) Tert butyl alcohol	3.06	59	4911	5.035	ug/l #	66
13) Acrolein	2.28	56	354	0.774	ug/l	89
16) Acetone	2.45	43	17461	8.087	ug/l	95
17) Carbon Disulfide	2.57	76	778	2.188	ug/l #	75
18) Methyl Acetate	2.78	43	6486	1.732	ug/l #	68
20) Methylene Chloride	2.86	84	22449	4.734	ug/l	96
25) 2-Butanone	4.70	43	6593	2.146	ug/l	98
29) Tetrahydrofuran	5.09	42	537	0.278	ug/l	93
36) 1,1-Dichloropropene	5.67	75	30338	4.700	ug/l #	49
38) Carbon Tetrachloride	5.67	117	40419	6.455	ug/l #	18
43) Isopropyl Acetate	6.46	43	22184	2.203	ug/l	96
47) Bromodichloromethane	7.90	83	1345	0.229	ug/l	94
48) Methyl methacrylate	7.68	41	12766	2.534	ug/l #	22
49) 1,4-Dioxane	7.73	88	230	8.873	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	109459	16.511	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	53440	7.710	ug/l #	66
57) 1,3-Dichloropropane	9.54	76	12735	1.566	ug/l #	46
59) 2-Hexanone	9.54	43	160815	31.172	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	148590	23.143	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	148590	69.711	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	5693	0.306	ug/l	96
95) Naphthalene	13.83	128	170262	7.648	ug/l	99

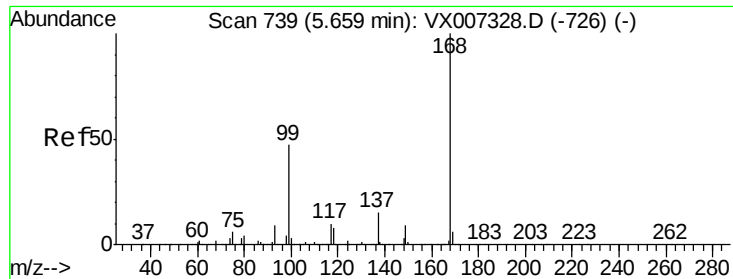
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 19 04:15:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

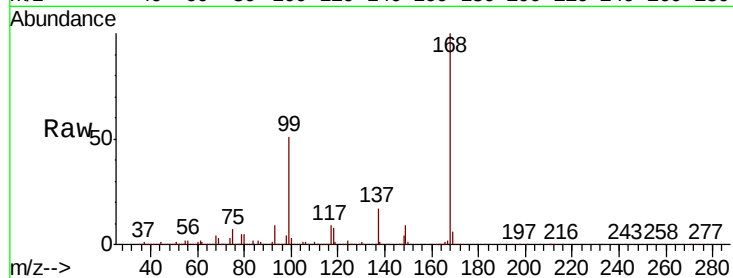
G-021519

Tgt Ion:168 Resp: 444073

Ion Ratio Lower Upper

168 100

99 51.3 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

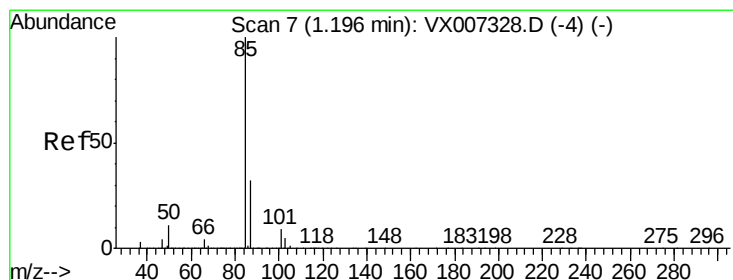
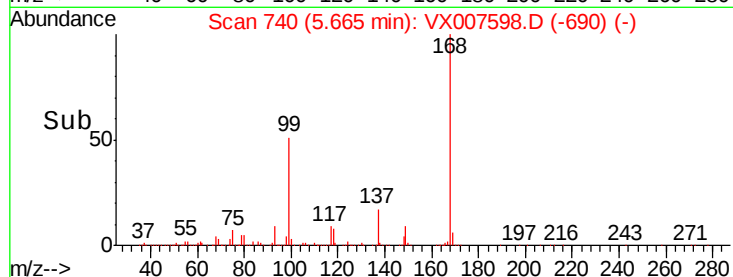
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.221 ug/l

RT: 1.24 min Scan# 14

Delta R.T. 0.04 min

Lab File: VX007598.D

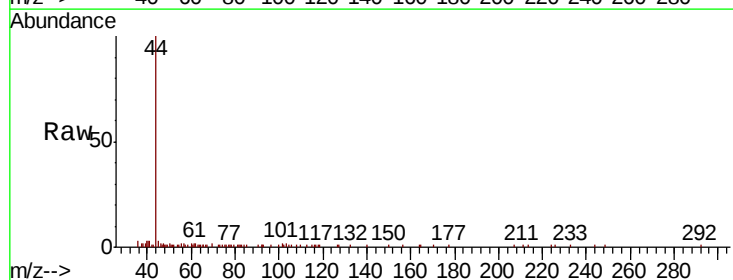
Acq: 18 Feb 2019 19:32

Tgt Ion: 85 Resp: 236

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.24

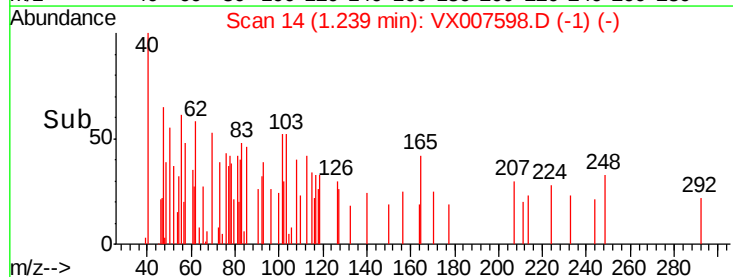
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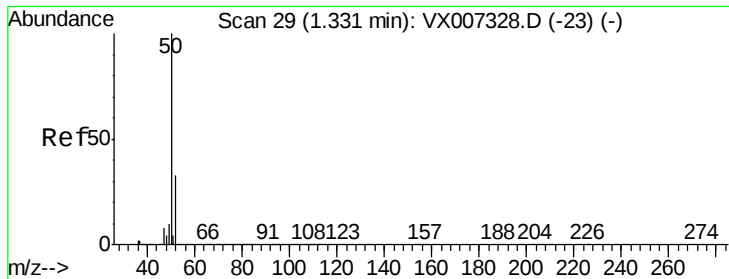
100

50

0

Time-->





#3

Chloromethane

Concen: 0.241 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

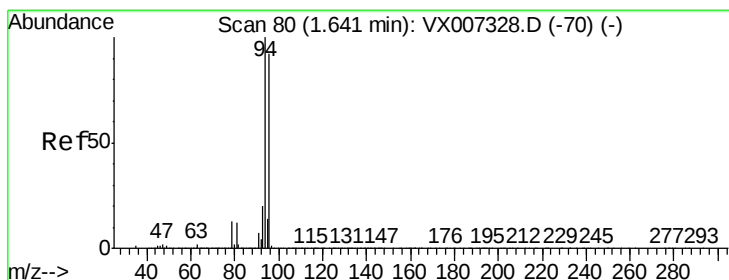
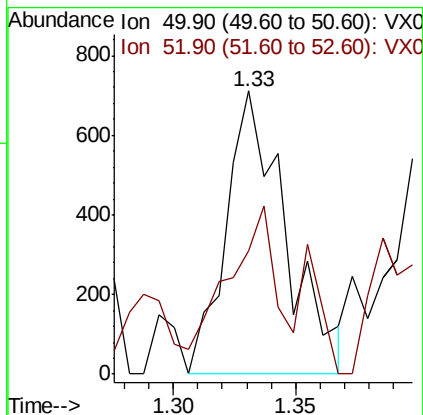
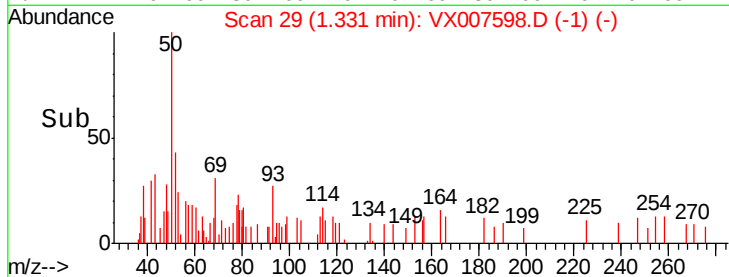
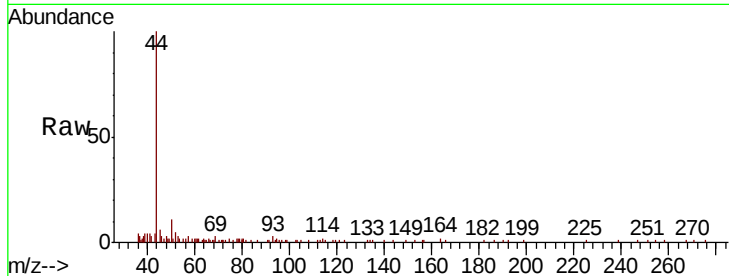
G-021519

Tgt Ion: 50 Resp: 1206

Ion Ratio Lower Upper

50 100

52 43.5 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX007598.D

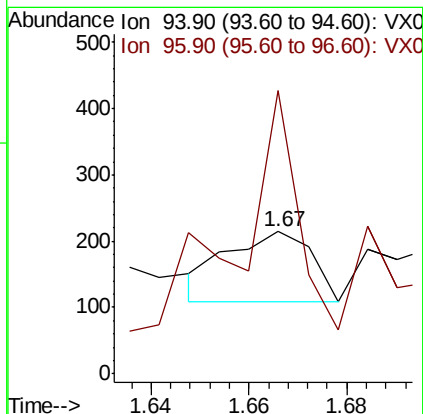
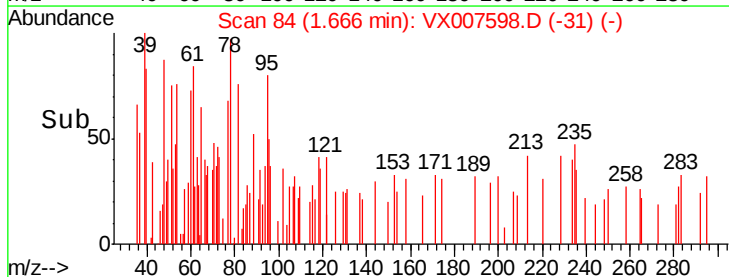
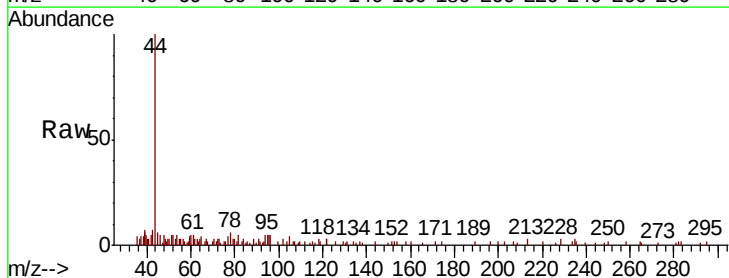
Acq: 18 Feb 2019 19:32

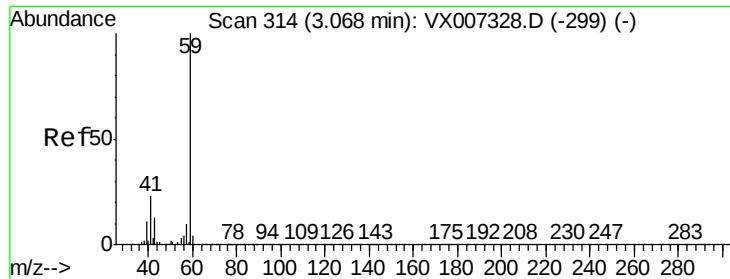
Tgt Ion: 94 Resp: 124

Ion Ratio Lower Upper

94 100

96 342.9 73.9 110.9#



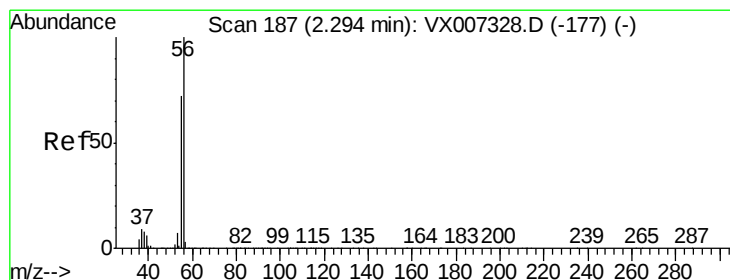
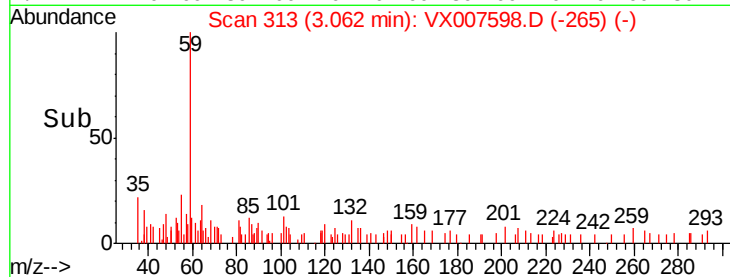
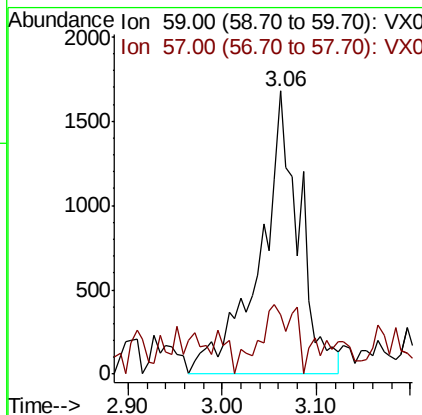
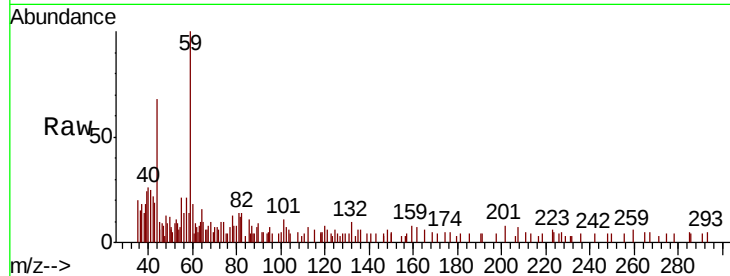


#11

Tert butyl alcohol
Concen: 5.035 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX007598.D
Acq: 18 Feb 2019 19:32

Instrument :
MSVOA_X
ClientSampleId :
G-021519

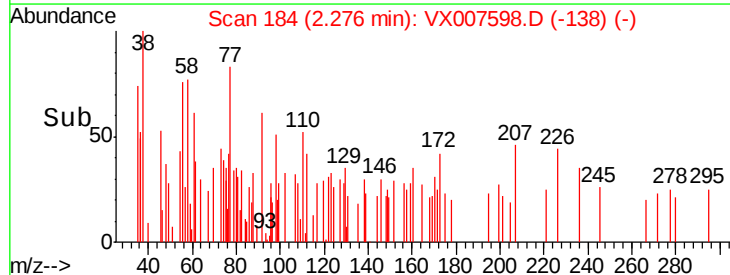
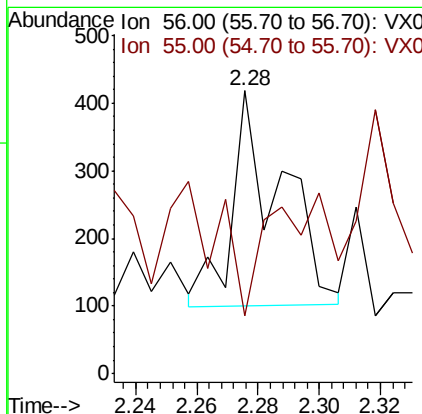
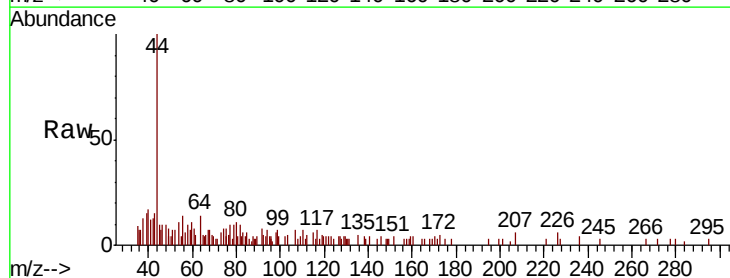
Tgt Ion: 59 Resp: 4911
Ion Ratio Lower Upper
59 100
57 22.8 8.1 12.1#

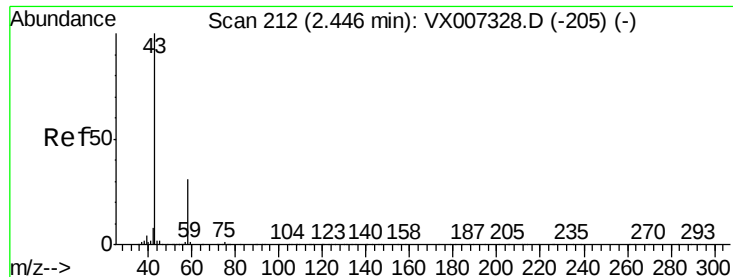


#13

Acrolein
Concen: 0.774 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.02 min
Lab File: VX007598.D
Acq: 18 Feb 2019 19:32

Tgt Ion: 56 Resp: 354
Ion Ratio Lower Upper
56 100
55 61.9 56.9 85.3





#16

Acetone

Concen: 8.087 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

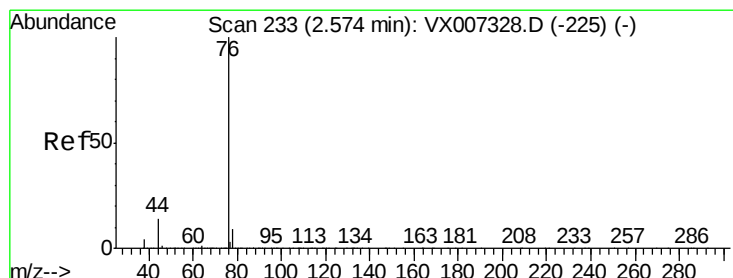
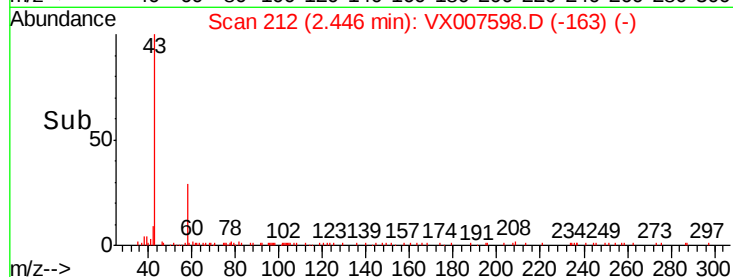
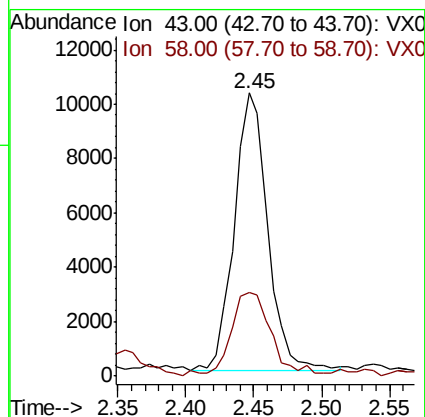
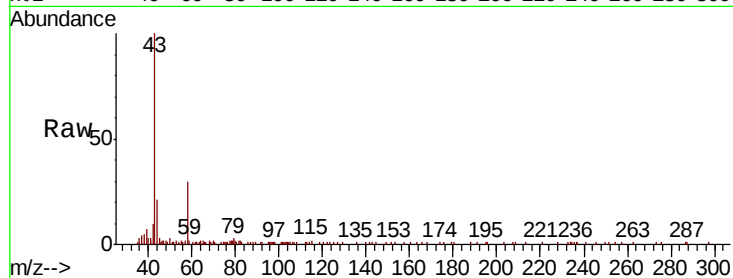
G-021519

Tgt Ion: 43 Resp: 17461

Ion Ratio Lower Upper

43 100

58 28.2 24.9 37.3



#17

Carbon Disulfide

Concen: 2.188 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007598.D

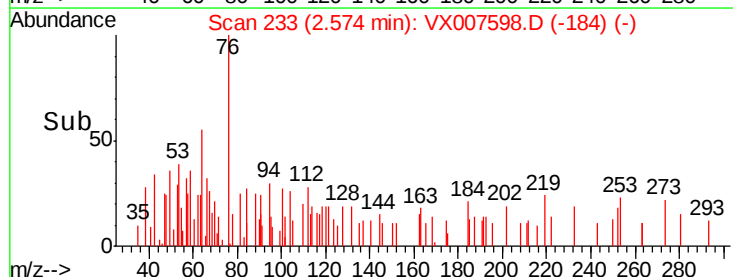
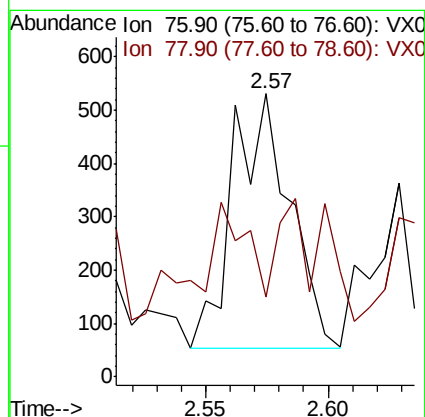
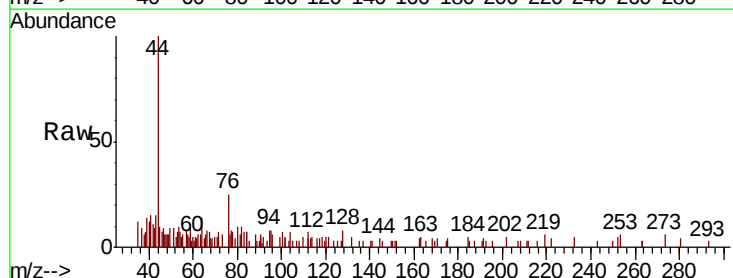
Acq: 18 Feb 2019 19:32

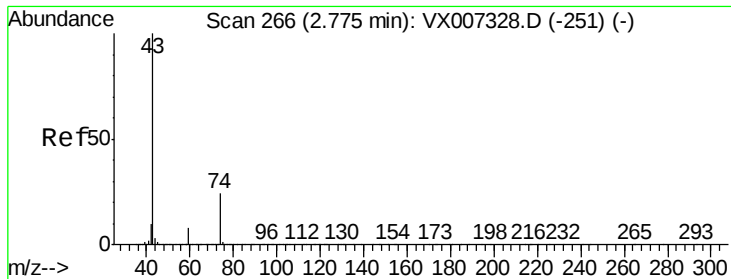
Tgt Ion: 76 Resp: 778

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

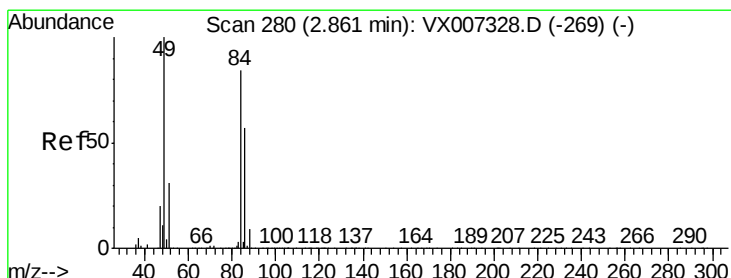
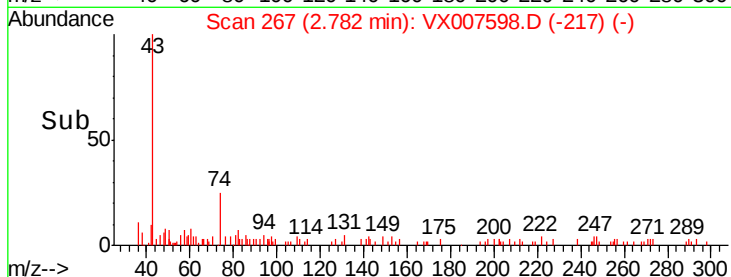
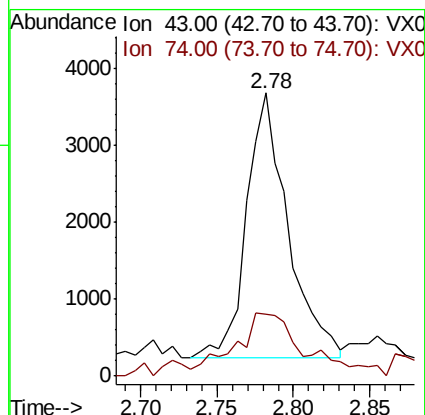
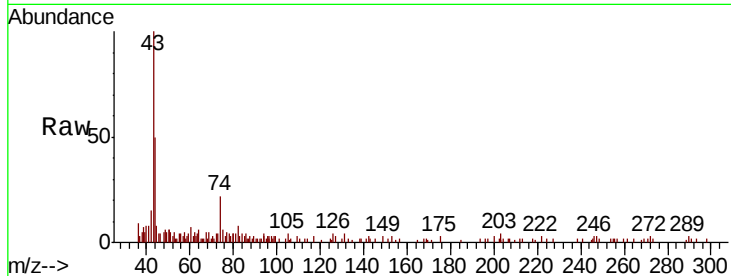




#18
Methyl Acetate
Concen: 1.732 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007598.D
Acq: 18 Feb 2019 19:32

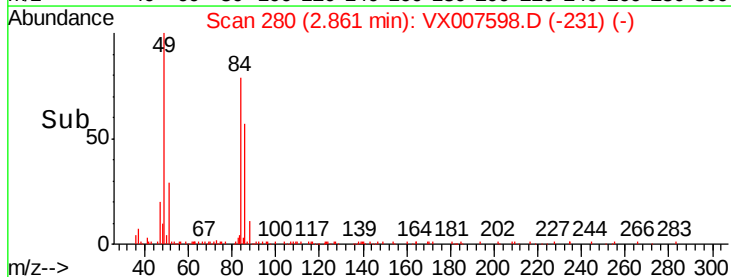
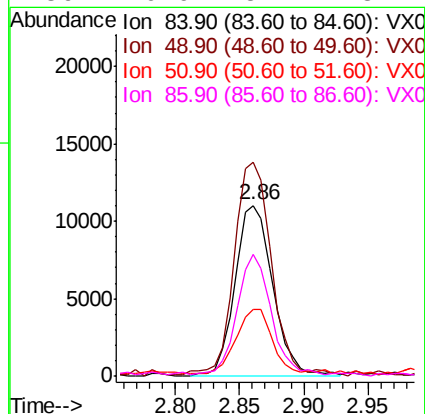
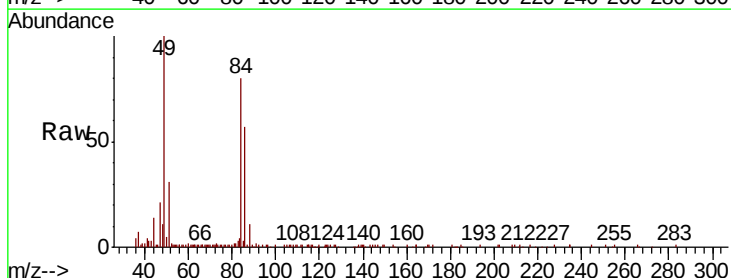
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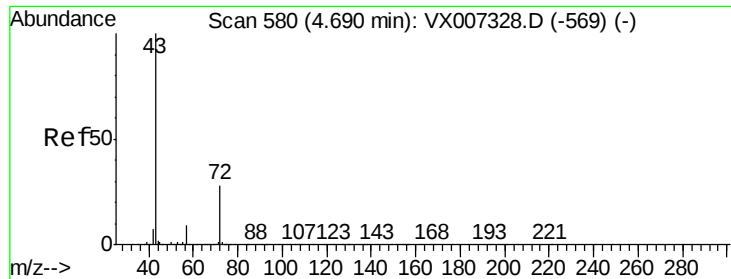
Tgt Ion: 43 Resp: 6486
Ion Ratio Lower Upper
43 100
74 40.3 19.4 29.2#



#20
Methylene Chloride
Concen: 4.734 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007598.D
Acq: 18 Feb 2019 19:32

Tgt Ion: 84 Resp: 22449
Ion Ratio Lower Upper
84 100
49 123.7 94.8 142.2
51 36.9 29.8 44.8
86 70.9 54.1 81.1





#25

2-Butanone

Concen: 2.146 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

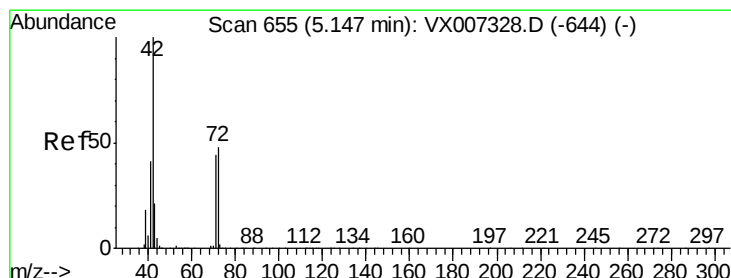
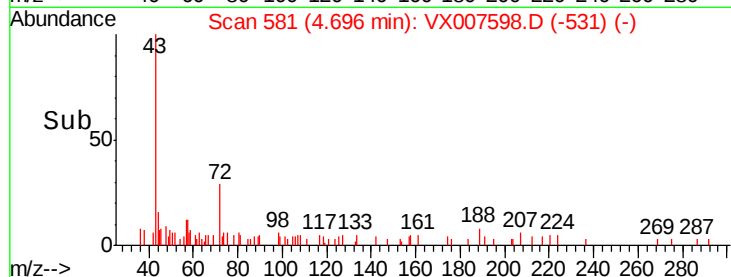
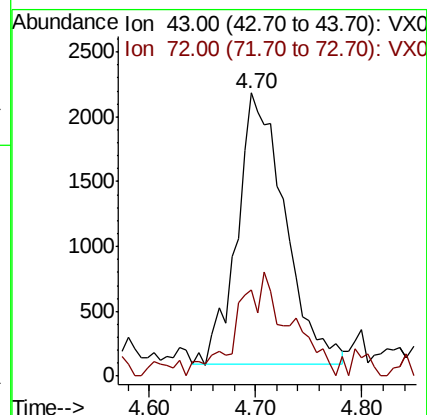
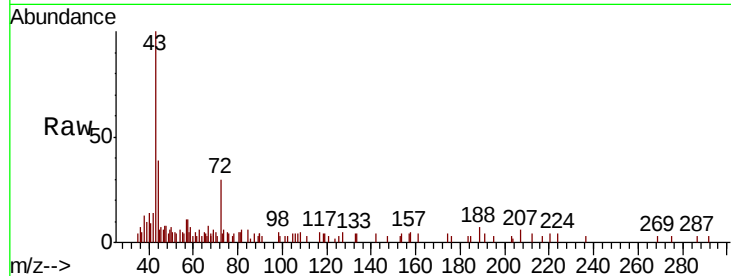
G-021519

Tgt Ion: 43 Resp: 6593

Ion Ratio Lower Upper

43 100

72 26.5 22.2 33.2



#29

Tetrahydrofuran

Concen: 0.278 ug/l

RT: 5.09 min Scan# 645

Delta R.T. -0.06 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

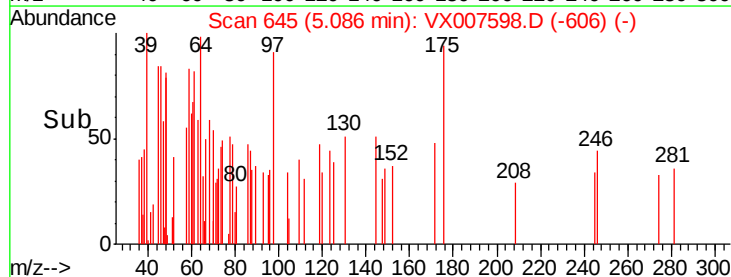
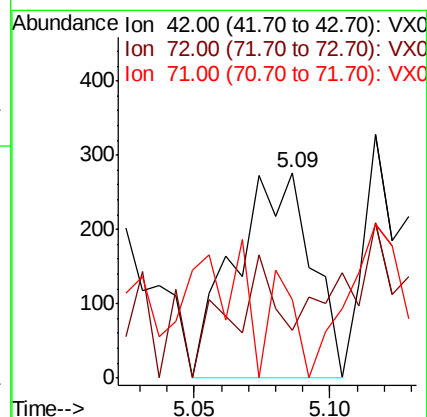
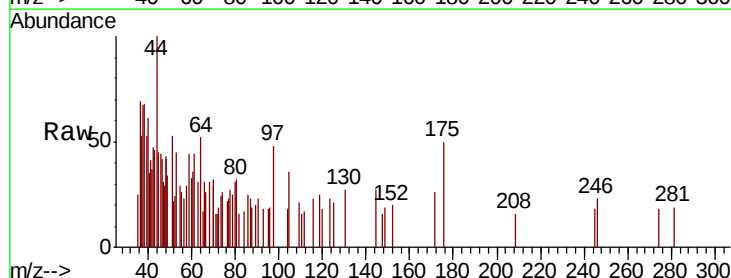
Tgt Ion: 42 Resp: 537

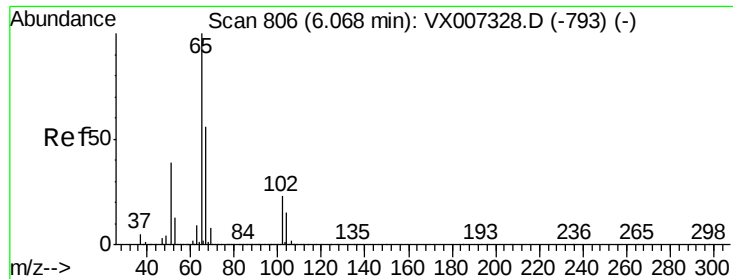
Ion Ratio Lower Upper

42 100

72 38.9 37.6 56.4

71 44.5 34.6 51.8

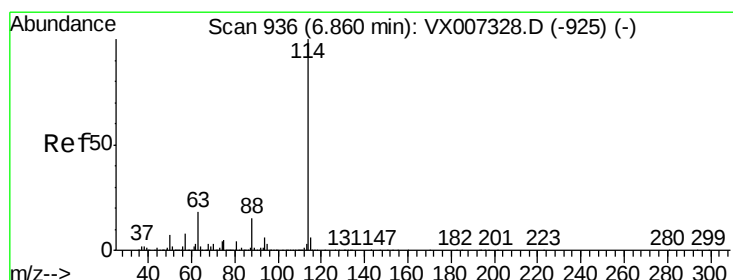
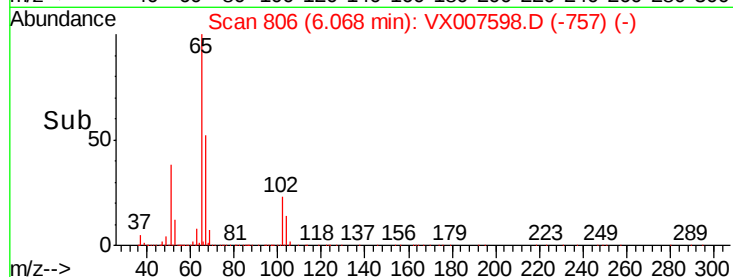
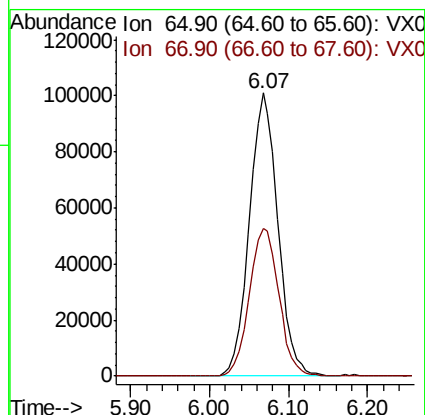
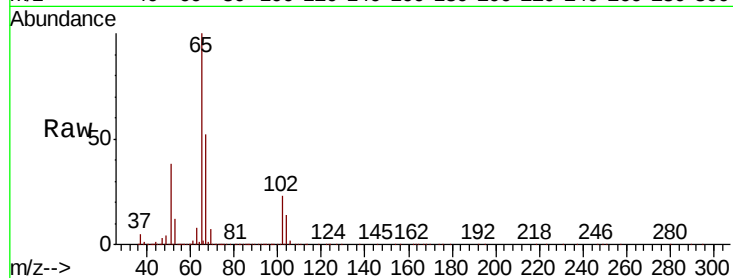




#33
 1,2-Dichloroethane-d4
 Concen: 53.784 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007598.D
 Acq: 18 Feb 2019 19:32

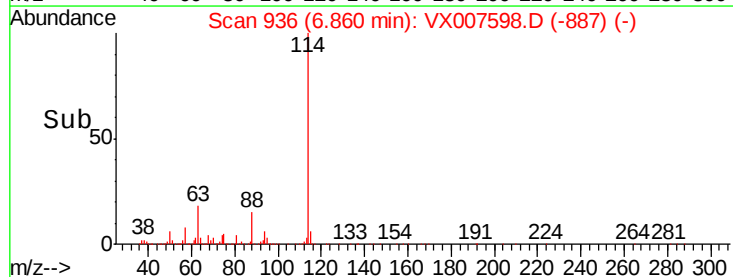
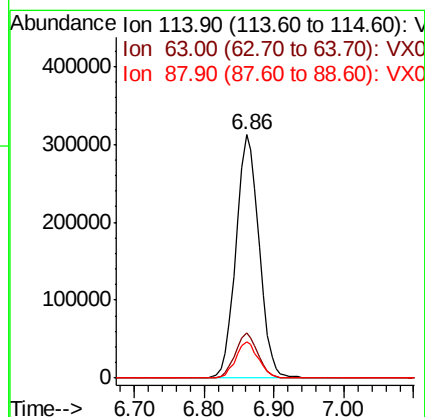
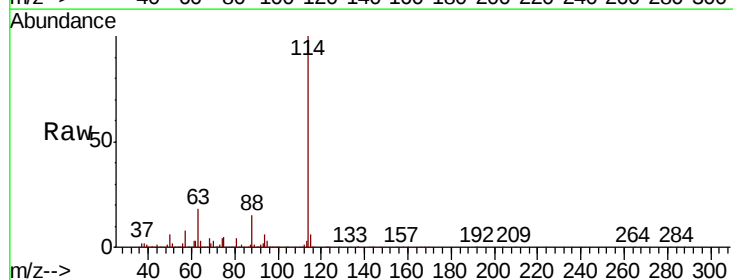
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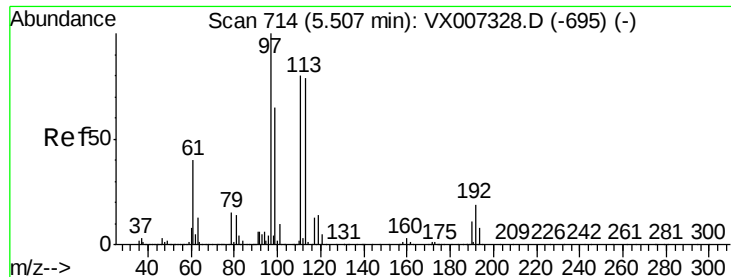
Tgt Ion: 65 Resp: 253512
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007598.D
 Acq: 18 Feb 2019 19:32

Tgt Ion: 114 Resp: 719353
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 35.6
 88 14.6 0.0 29.6

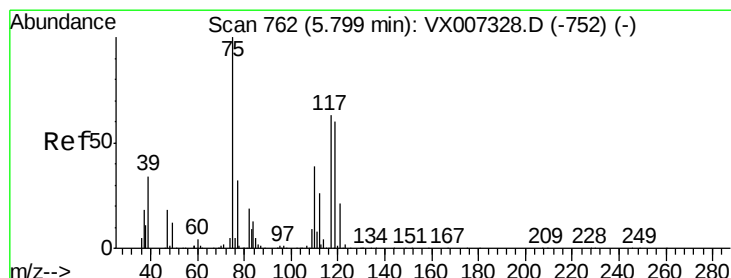
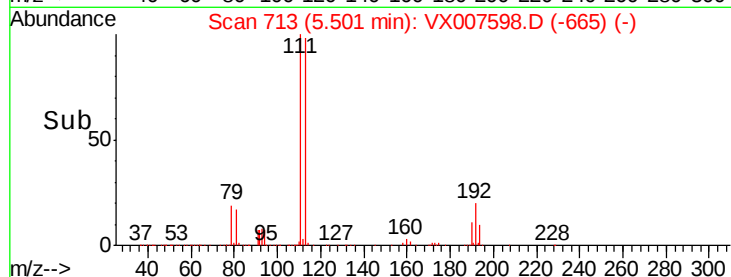
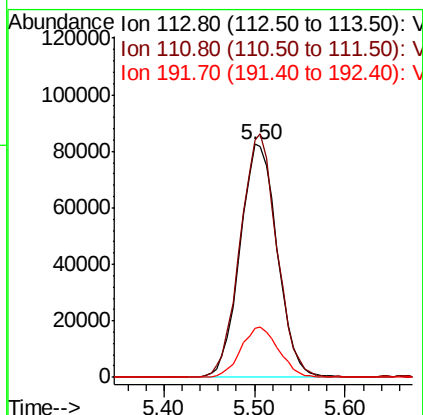
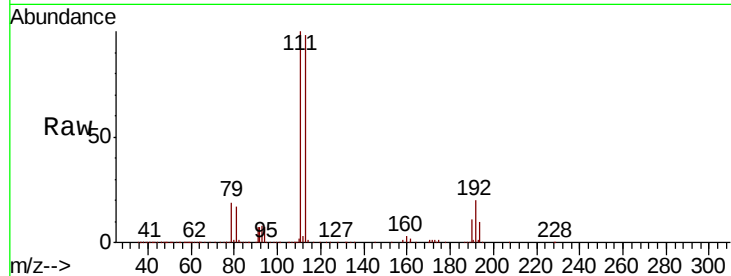




#35
 Dibromofluoromethane
 Concen: 50.205 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.01 min
 Lab File: VX007598.D
 Acq: 18 Feb 2019 19:32

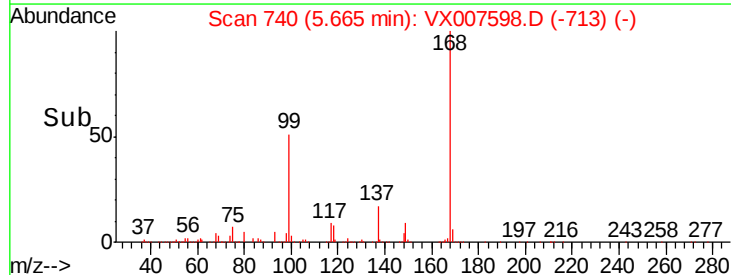
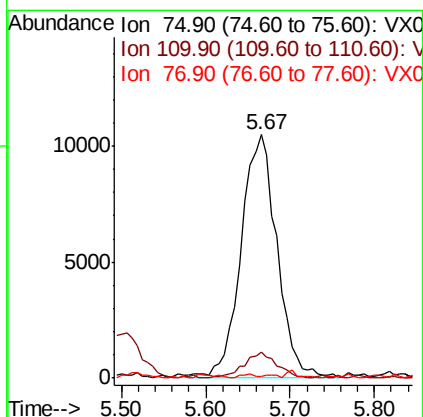
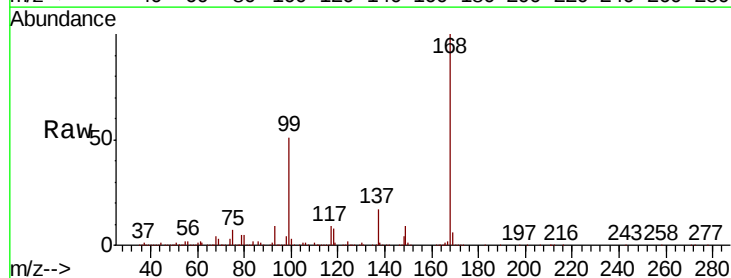
Instrument :
 MSVOA_X
 ClientSampleId :
 G-021519

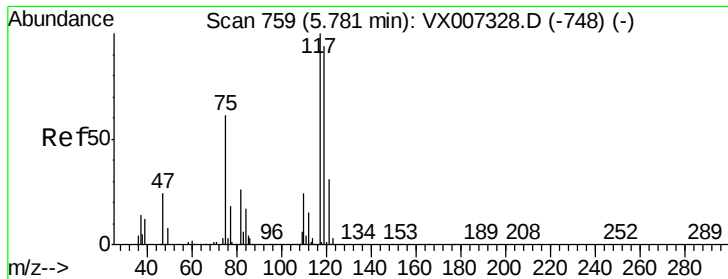
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.8
192	21.7	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.700 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007598.D
 Acq: 18 Feb 2019 19:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	20.0	59.9#
77	0.7	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.455 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

G-021519

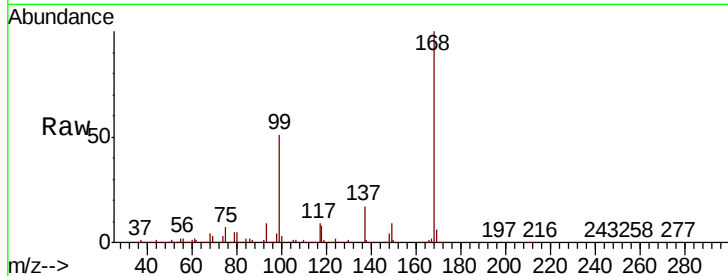
Tgt Ion:117 Resp: 40419

Ion Ratio Lower Upper

117 100

119 6.3 75.3 112.9#

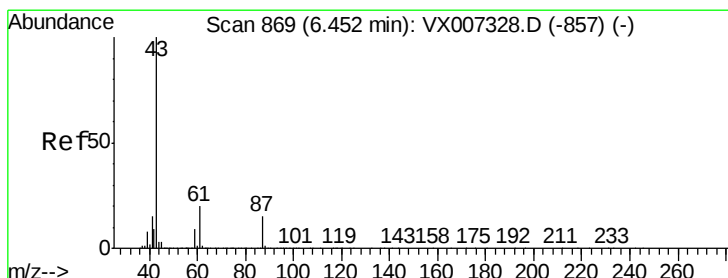
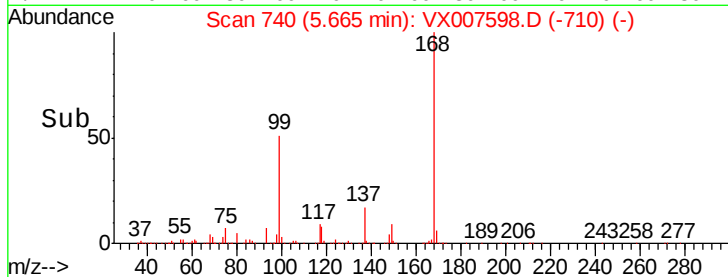
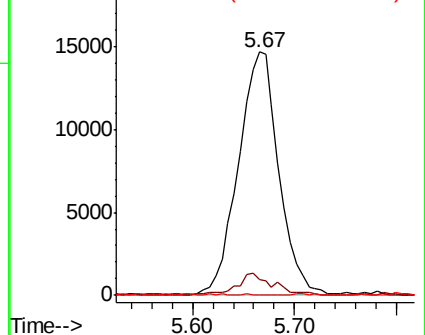
121 0.0 25.0 37.4#



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: 2.203 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

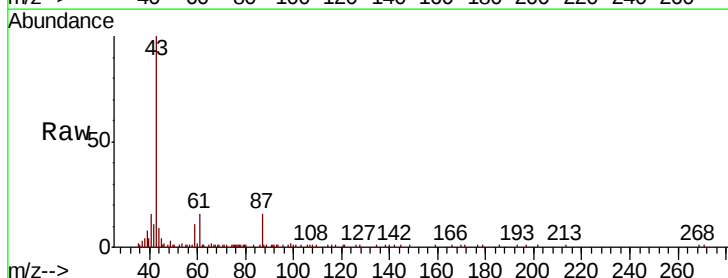
Tgt Ion: 43 Resp: 22184

Ion Ratio Lower Upper

43 100

61 21.8 16.1 24.1

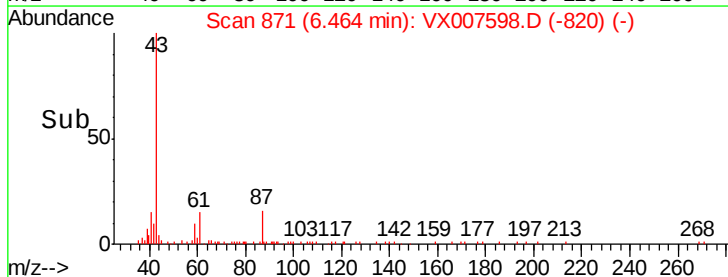
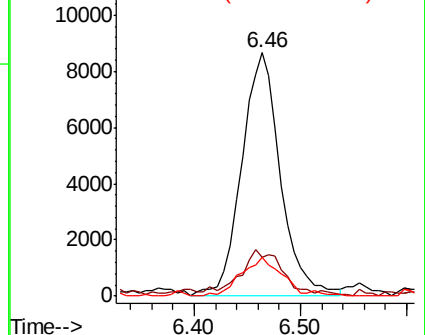
87 16.4 11.5 17.3

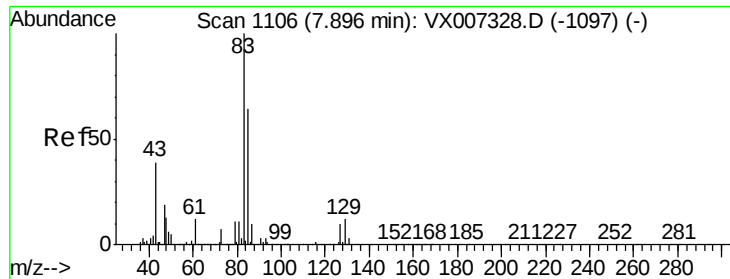


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#47

Bromodichloromethane

Concen: 0.229 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

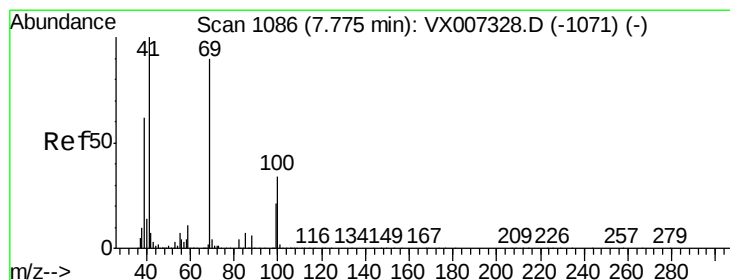
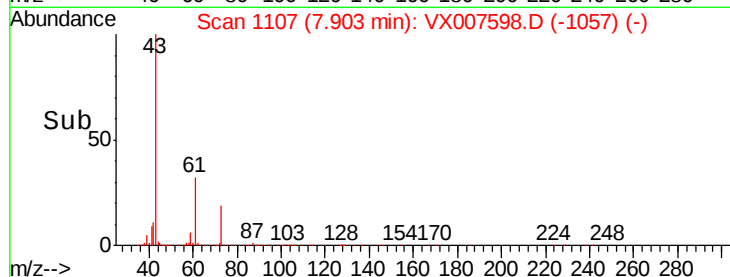
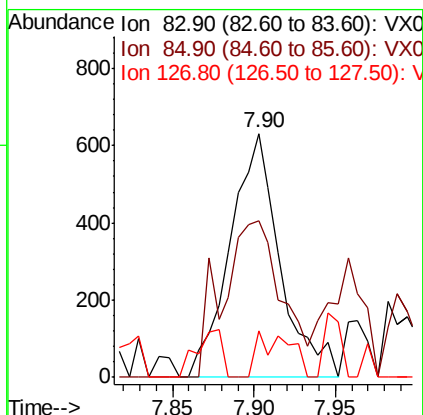
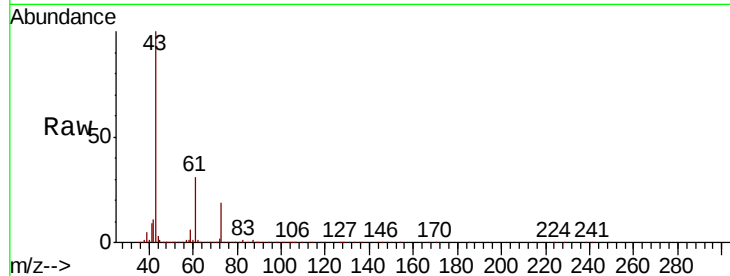
Instrument :

MSVOA_X

ClientSampleId :

G-021519

Tgt Ion:	83	Resp:	1345
Ion	Ratio	Lower	Upper
83	100		
85	59.6	51.4	77.0
127	8.9	8.1	12.1



#48

Methyl methacrylate

Concen: 2.534 ug/l

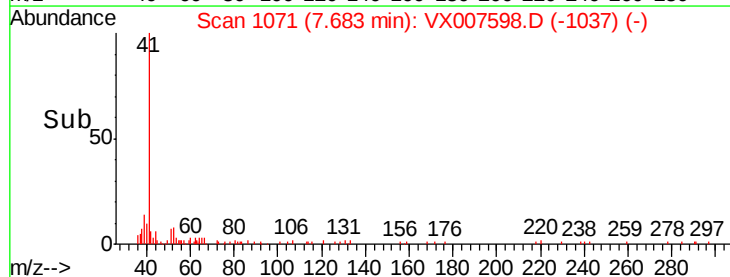
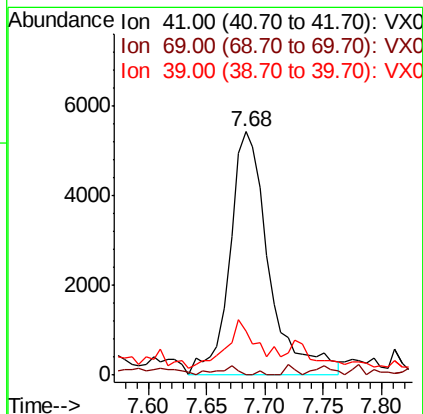
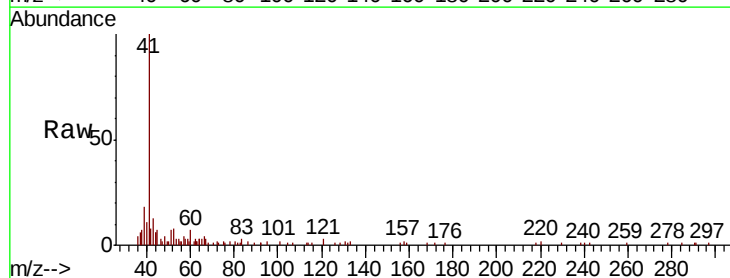
RT: 7.68 min Scan# 1071

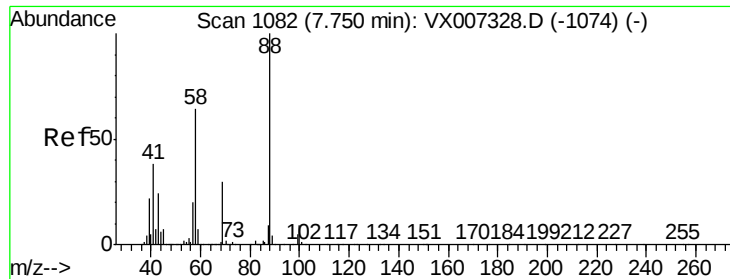
Delta R.T. -0.09 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Tgt Ion:	41	Resp:	12766
Ion	Ratio	Lower	Upper
41	100		
69	1.9	70.2	105.4#
39	16.2	47.4	71.0#





#49

1,4-Dioxane

Concen: 8.873 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

G-021519

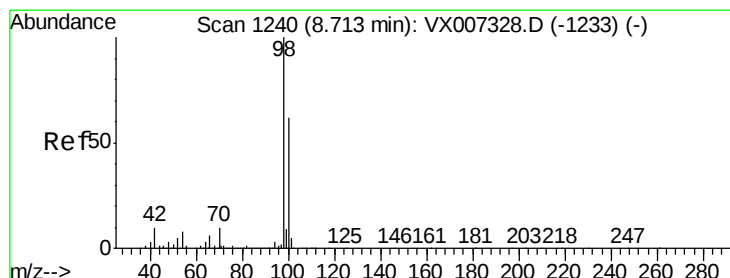
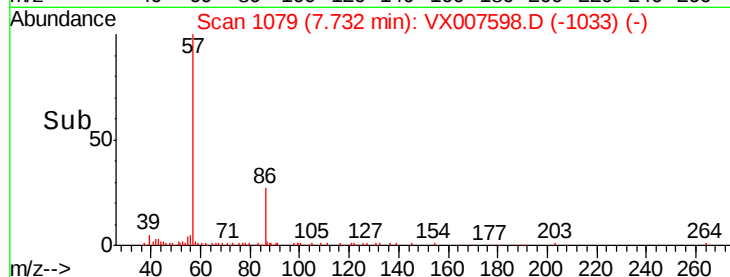
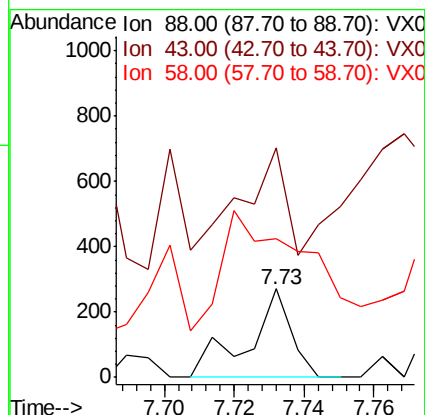
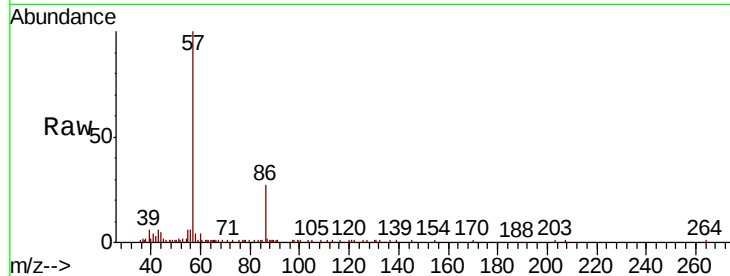
Tgt Ion: 88 Resp: 230

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 294.8 53.0 79.4#



#50

Toluene-d8

Concen: 51.032 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007598.D

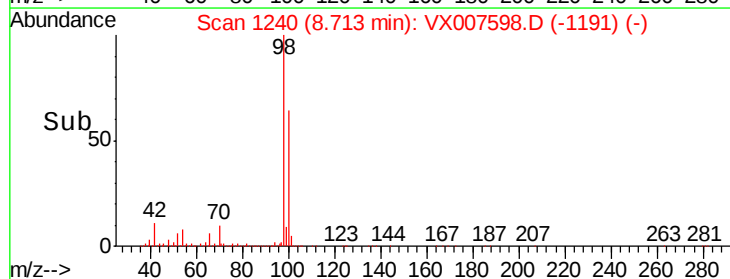
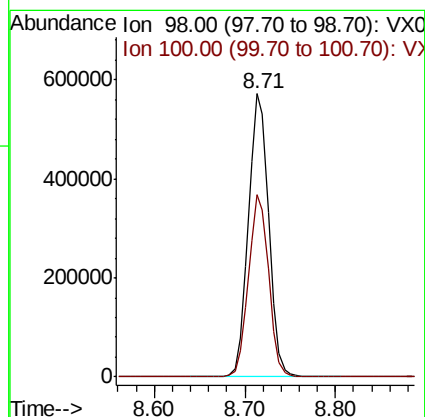
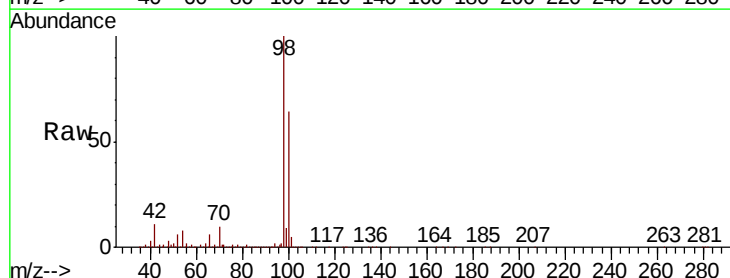
Acq: 18 Feb 2019 19:32

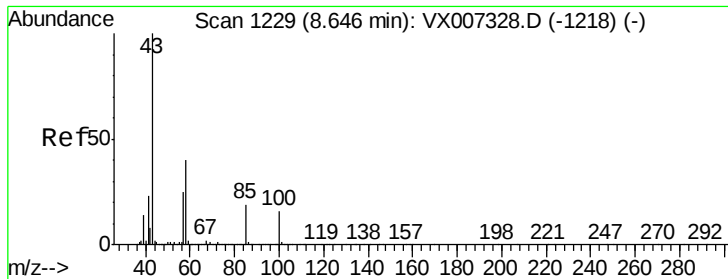
Tgt Ion: 98 Resp: 886204

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 16.511 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

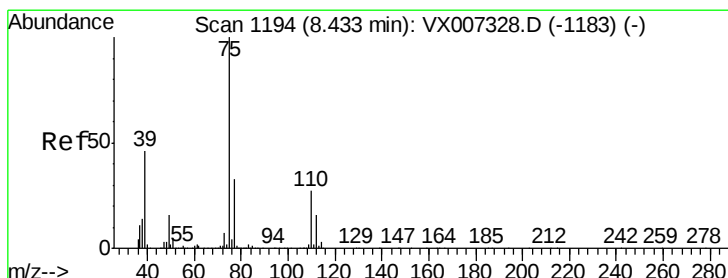
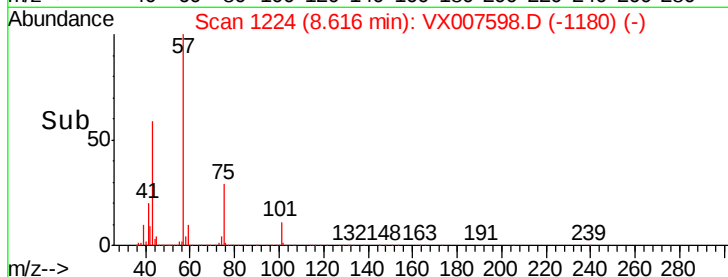
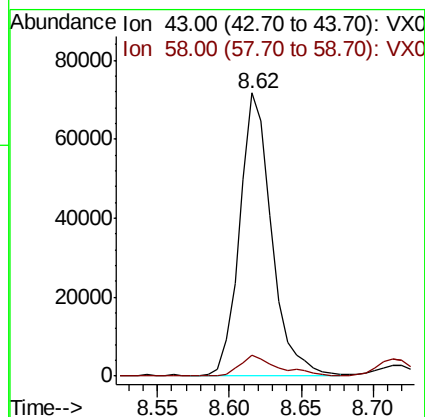
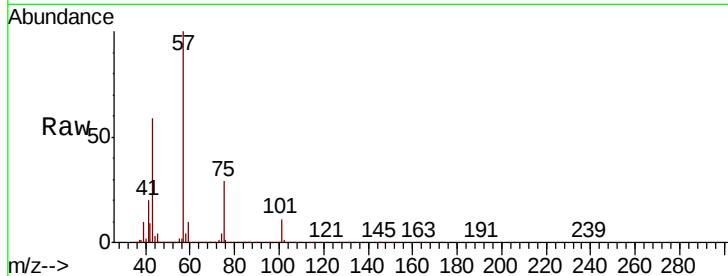
G-021519

Tgt Ion: 43 Resp: 109459

Ion Ratio Lower Upper

43 100

58 8.6 31.2 46.8#



#54

cis-1,3-Dichloropropene

Concen: 7.710 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

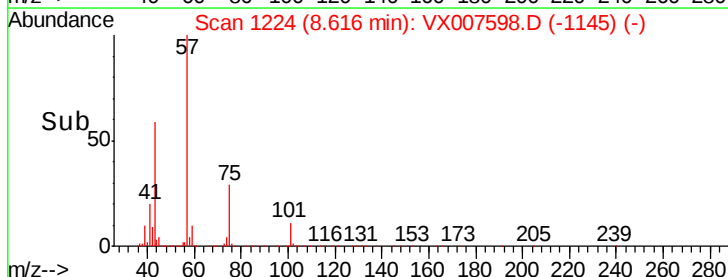
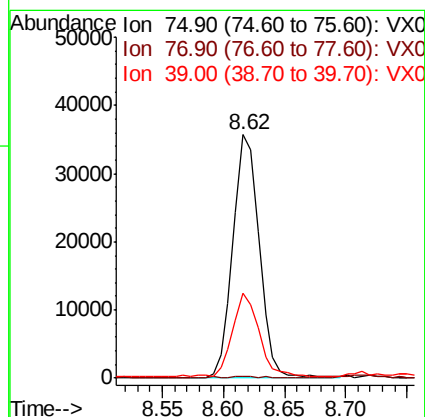
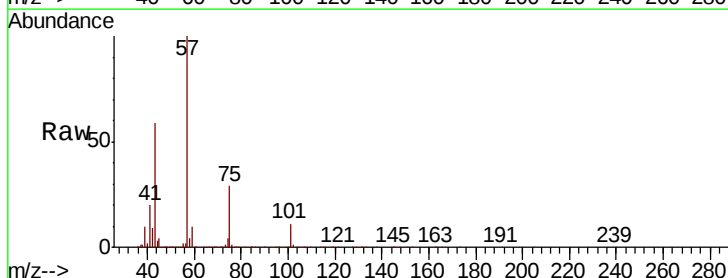
Tgt Ion: 75 Resp: 53440

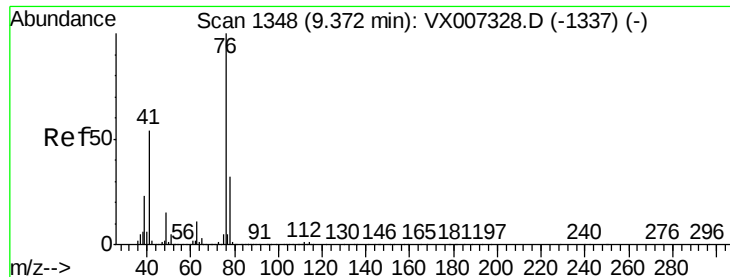
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.4#

39 34.6 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 1.566 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

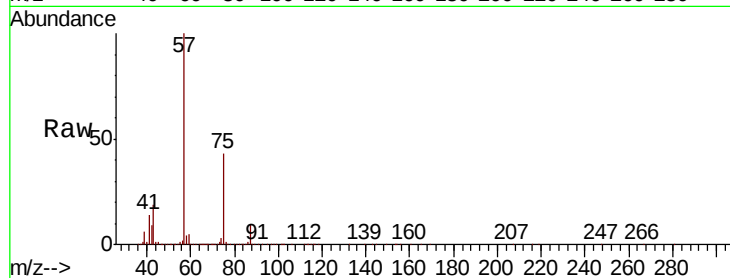
G-021519

Tgt Ion: 76 Resp: 12735

Ion Ratio Lower Upper

76 100

78 2.1 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.54

10000

8000

6000

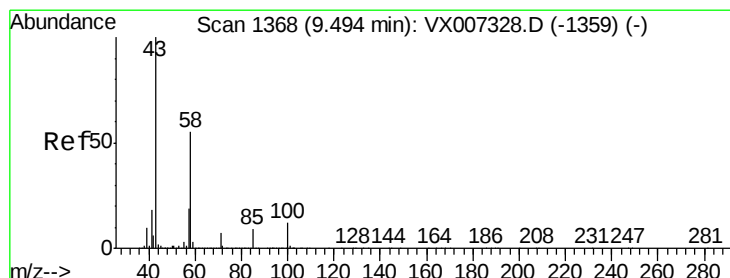
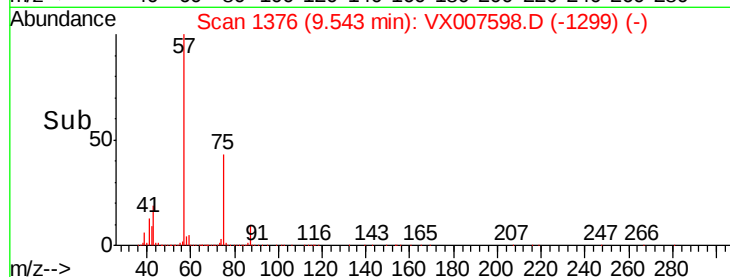
4000

2000

0

9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 31.172 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007598.D

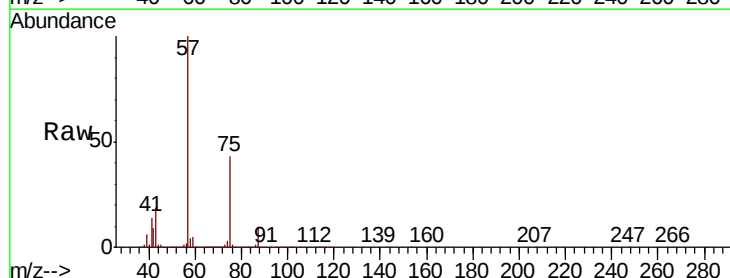
Acq: 18 Feb 2019 19:32

Tgt Ion: 43 Resp: 160815

Ion Ratio Lower Upper

43 100

58 19.2 27.1 81.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.54

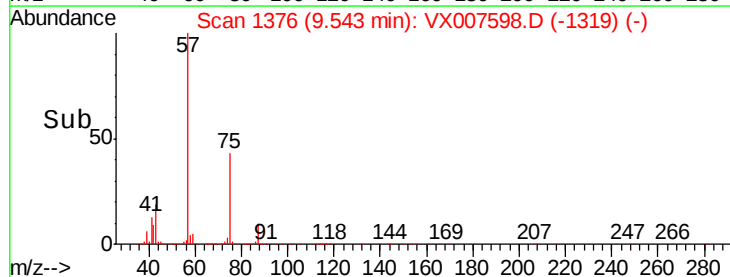
100000

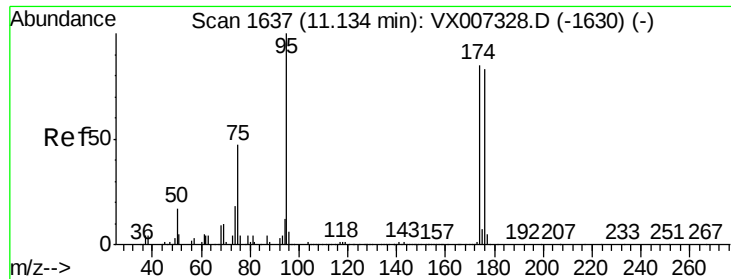
50000

0

9.45 9.50 9.55 9.60 9.65

Time-->





#62

4-Bromofluorobenzene

Concen: 48.786 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

G-021519

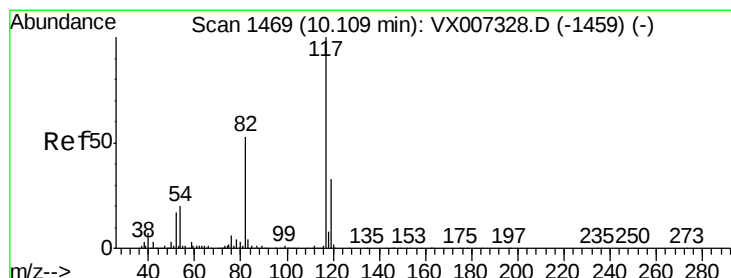
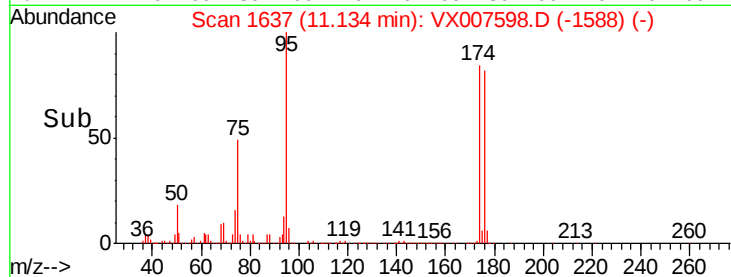
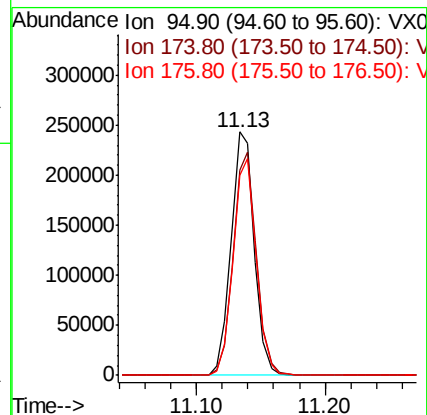
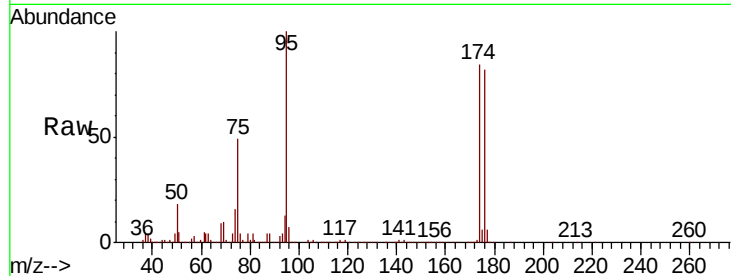
Tgt Ion: 95 Resp: 309316

Ion Ratio Lower Upper

95 100

174 91.3 0.0 189.2

176 88.6 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: VX007598.D

Acq: 18 Feb 2019 19:32

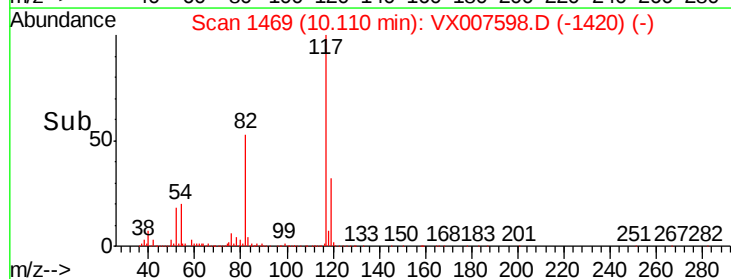
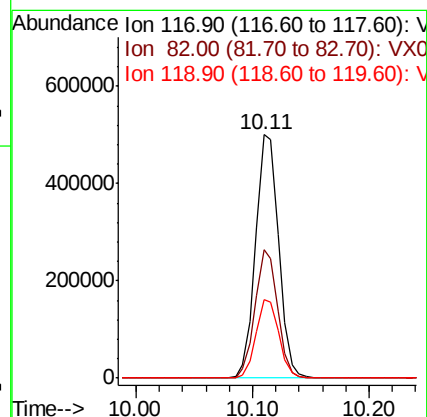
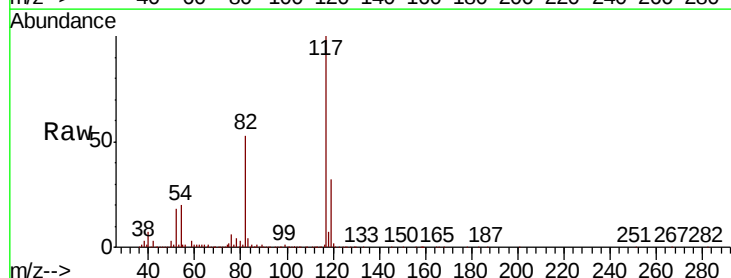
Tgt Ion: 117 Resp: 696289

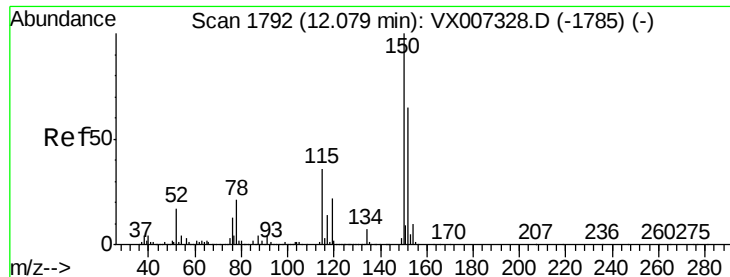
Ion Ratio Lower Upper

117 100

82 52.9 42.1 63.1

119 32.3 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampled :

G-021519

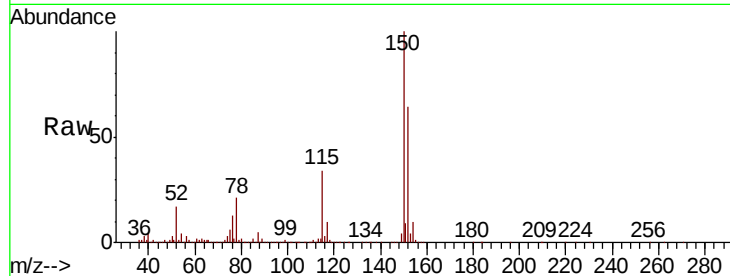
Tgt Ion: 152 Resp: 330086

Ion Ratio Lower Upper

152 100

115 54.1 38.0 114.0

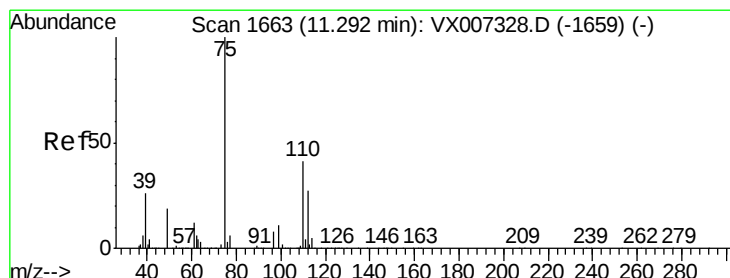
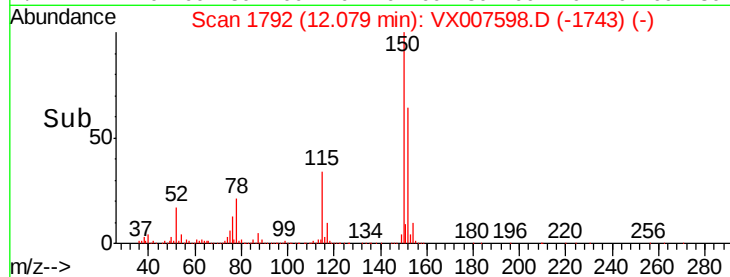
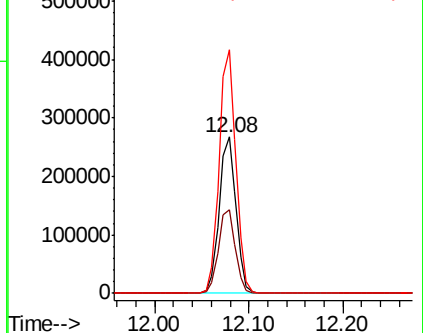
150 154.9 0.0 346.4



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: 23.143 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007598.D

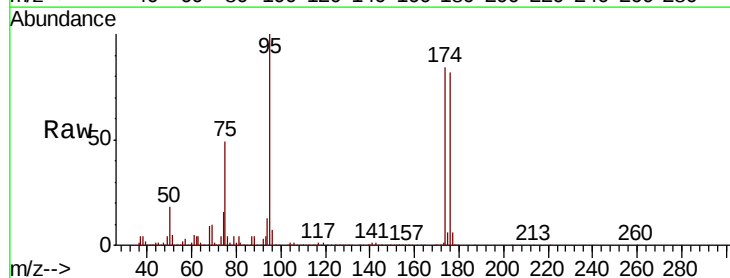
Acq: 18 Feb 2019 19:32

Tgt Ion: 75 Resp: 148590

Ion Ratio Lower Upper

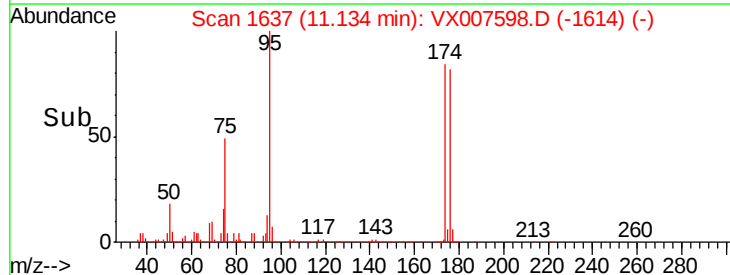
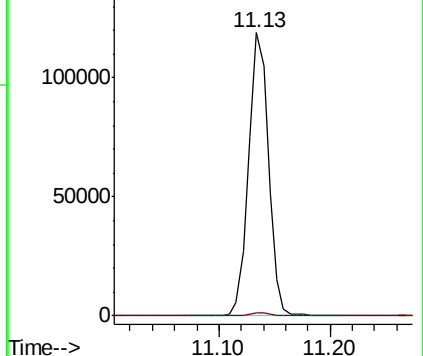
75 100

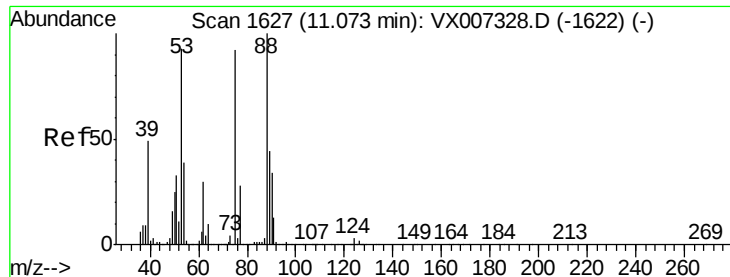
77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

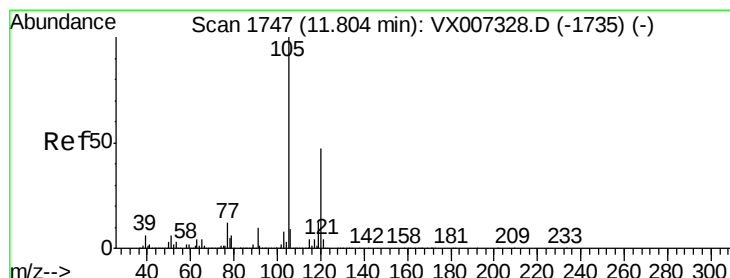
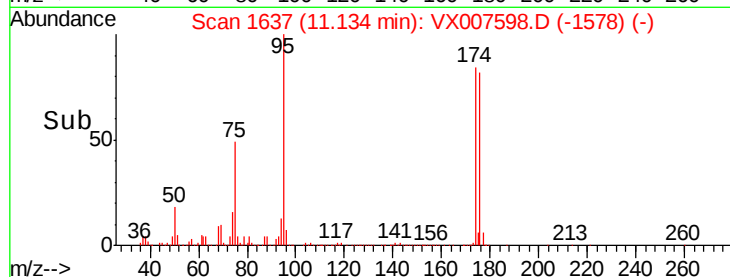
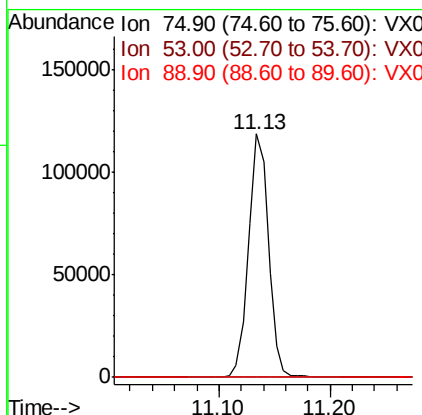
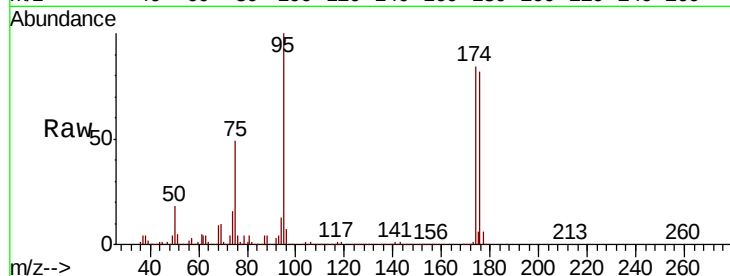




#81
trans-1,4-Dichloro-2-butene
Concen: 69.711 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007598.D
Acq: 18 Feb 2019 19:32

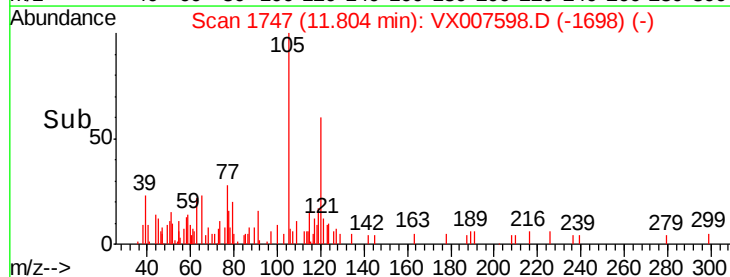
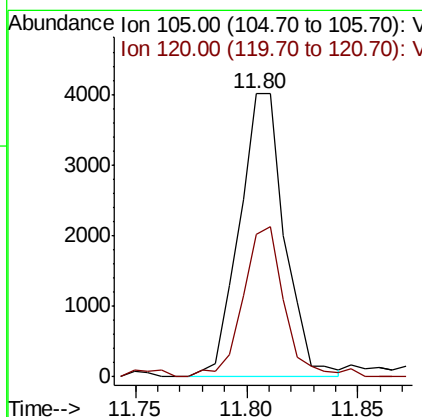
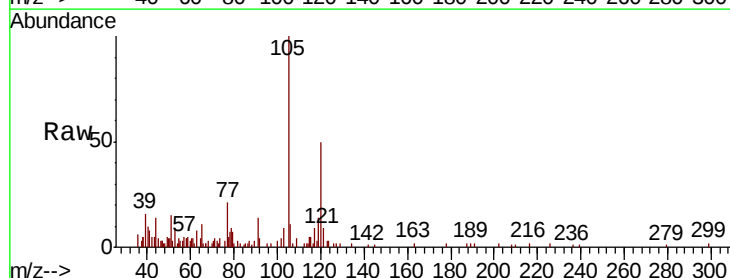
Instrument :
MSVOA_X
ClientSampleId :
G-021519

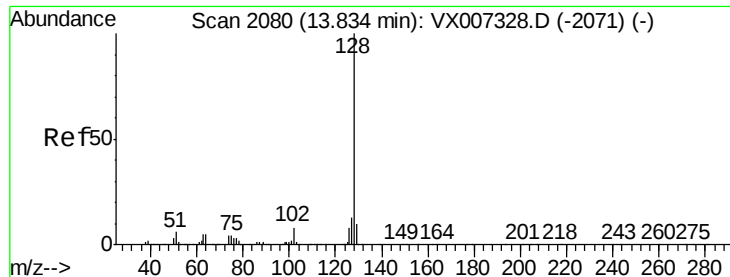
Tgt Ion: 75 Resp: 148590
Ion Ratio Lower Upper
75 100
53 0.4 81.0 121.6#
89 0.0 41.4 62.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.306 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VX007598.D
Acq: 18 Feb 2019 19:32

Tgt Ion: 105 Resp: 5693
Ion Ratio Lower Upper
105 100
120 48.8 23.1 69.3





#95

Naphthalene

Concen: 7.648 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007598.D

Acq: 18 Feb 2019 19:32

Instrument :

MSVOA_X

ClientSampleId :

G-021519

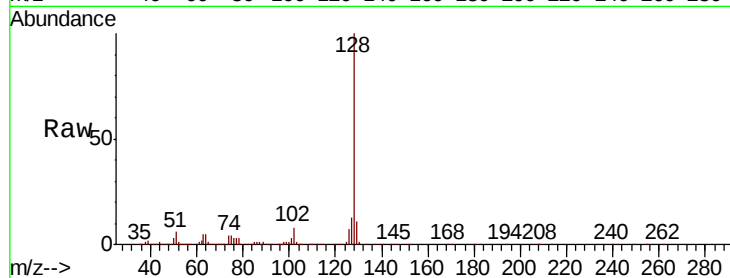
Tgt Ion:128 Resp: 170262

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 11.4 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

