

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080118\
 Data File : VX003797.D
 Acq On : 01 Aug 2018 16:42
 Operator : JC/SP
 Sample : J4143-04RE
 Misc : 10.02G/5.0mL/MSVOA X/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 02 05:55:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 11:17:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	91321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	120311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	90546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	27208	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	34788	37.67	ug/l	0.00
Spiked Amount			Recovery	=	75.34%	
35) Dibromofluoromethane	5.51	113	32748	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
50) Toluene-d8	8.72	98	123974	41.97	ug/l	0.00
Spiked Amount			Recovery	=	83.94%	
62) 4-Bromofluorobenzene	11.14	95	29311	26.91	ug/l	0.00
Spiked Amount			Recovery	=	53.82%	

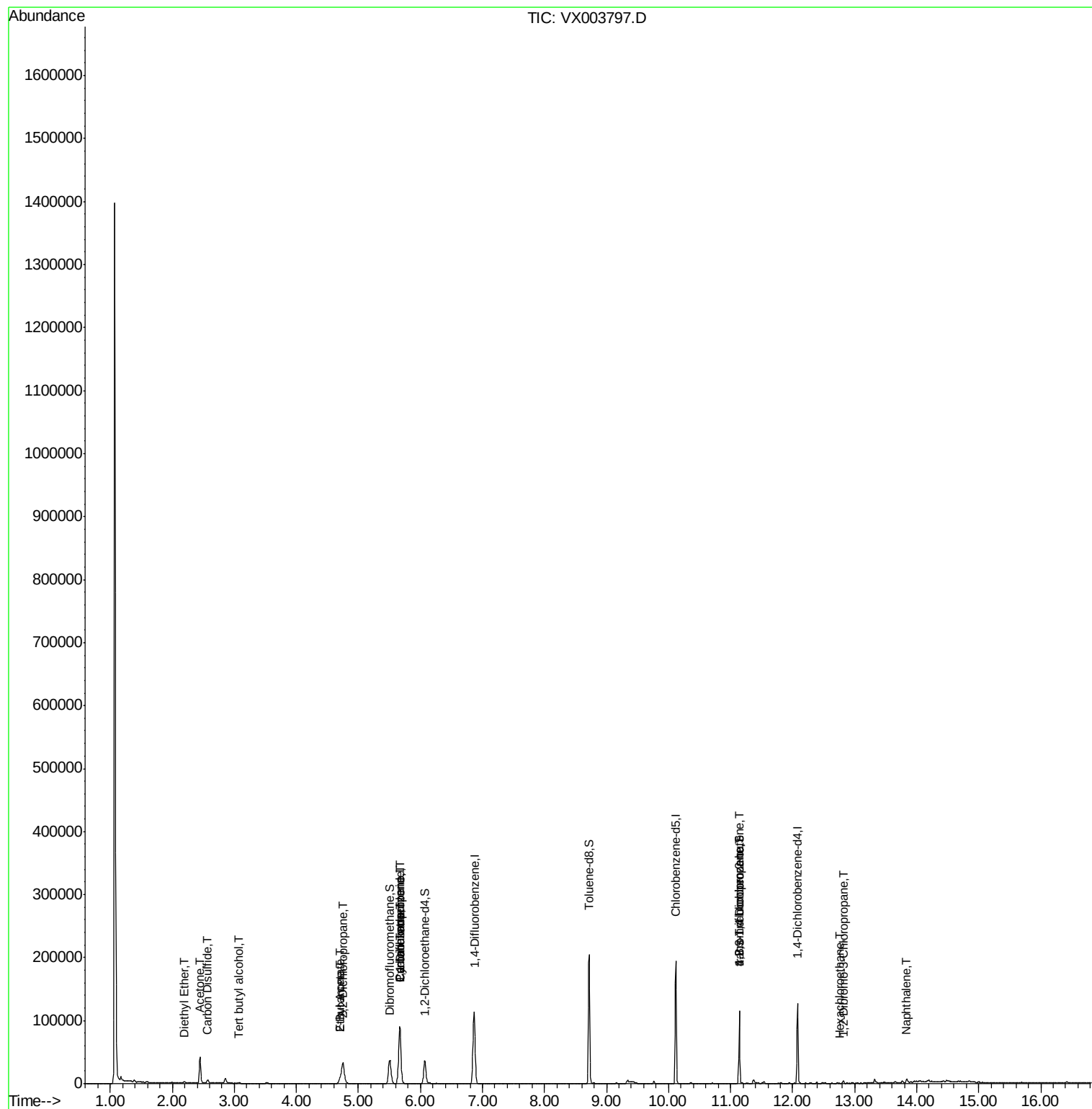
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	100	Below Cal		86
8) Diethyl Ether	2.19	74	572	1.11	ug/l	81
11) Tert butyl alcohol	3.07	59	654	4.37	ug/l #	73
16) Acetone	2.45	43	43235	122.55	ug/l	97
17) Carbon Disulfide	2.57	76	7314	2.75	ug/l	98
25) 2-Butanone	4.70	43	16212	31.52	ug/l	96
26) 2,2-Dichloropropane	4.75	77	2576	2.15	ug/l #	51
31) Cyclohexane	5.67	56	1703	1.16	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	5853	5.19	ug/l #	48
37) Ethyl Acetate	4.70	43	16212	18.73	ug/l #	68
38) Carbon Tetrachloride	5.67	117	8151	7.82	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	14098	37.59	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	14098	111.35	ug/l #	11
90) Hexachloroethane	12.76	117	407	1.64	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.82	75	129	1.47	ug/l #	1
95) Naphthalene	13.83	128	3723	2.63	ug/l	97

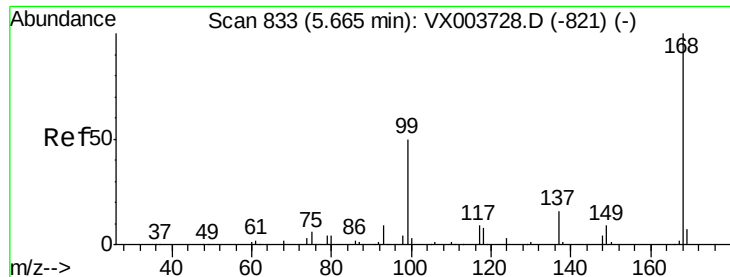
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 31 11:17:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

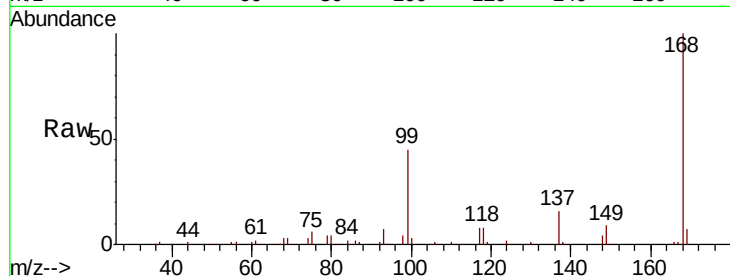
ClientSampleId :

Tot Ion:168 Resp: 91321

Ion Ratio Lower Upper

168 100

99 44.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

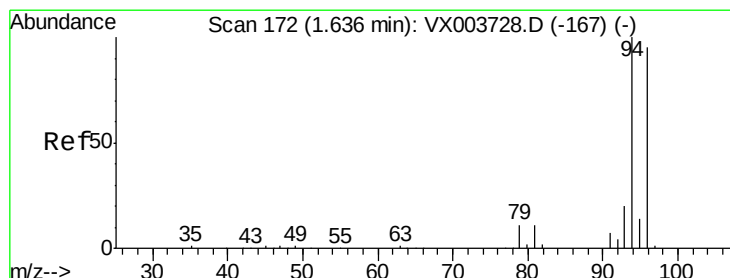
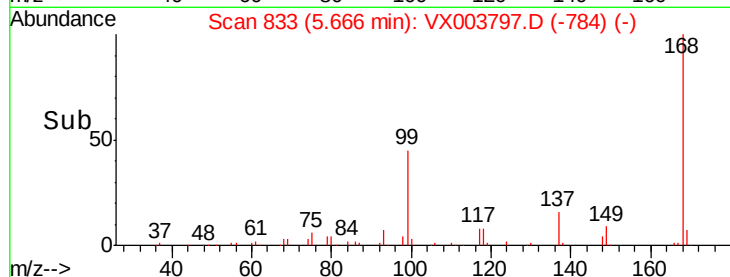
20000

10000

0

5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003797.D

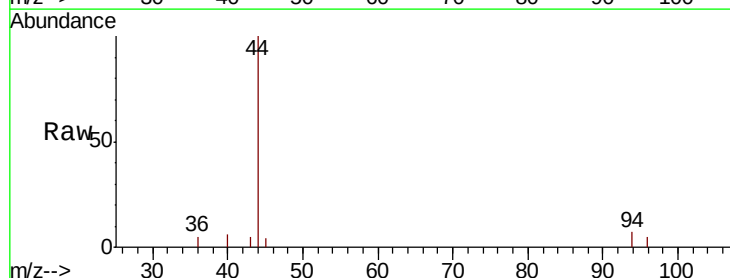
Acq: 01 Aug 2018 16:42

Tgt Ion: 94 Resp: 100

Ion Ratio Lower Upper

94 100

96 81.4 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

100

80

60

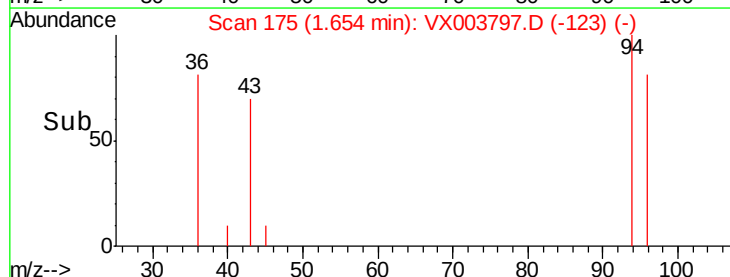
40

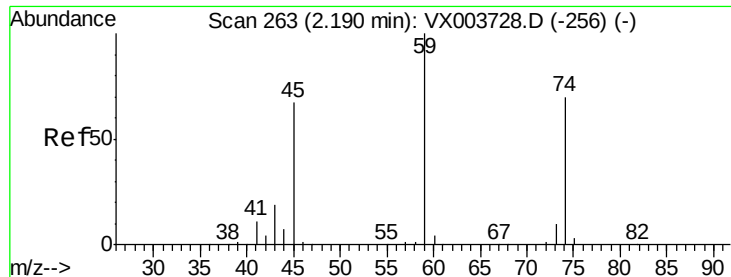
20

0

1.62 1.64 1.66

Time-->





#8

Diethyl Ether

Concen: 1.11 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

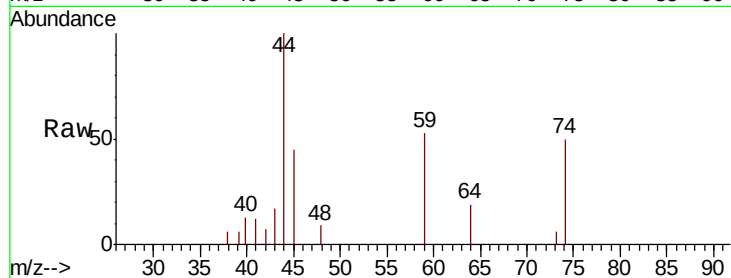
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 74 Resp: 572

Ion Ratio Lower Upper

74 100

45 118.0 49.5 148.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

400

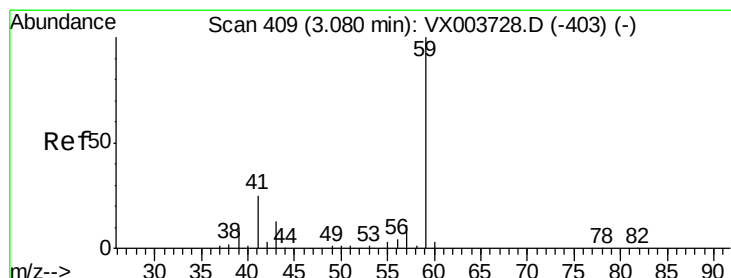
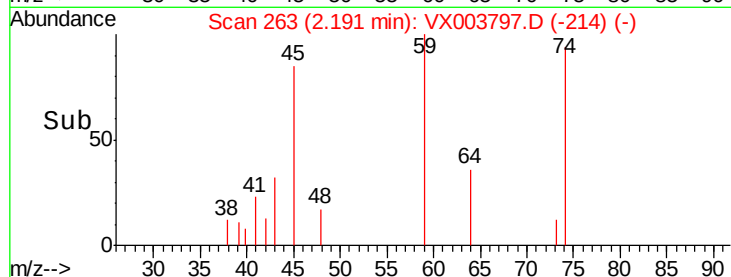
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 4.37 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX003797.D

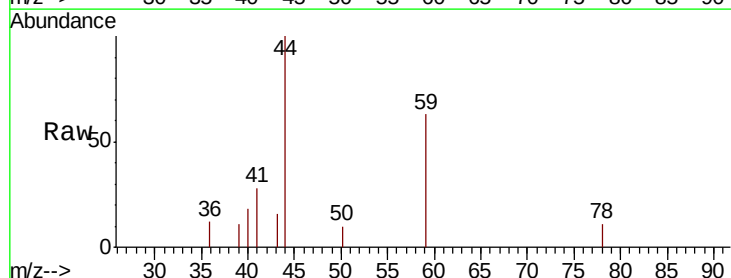
Acq: 01 Aug 2018 16:42

Tgt Ion: 59 Resp: 654

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.07

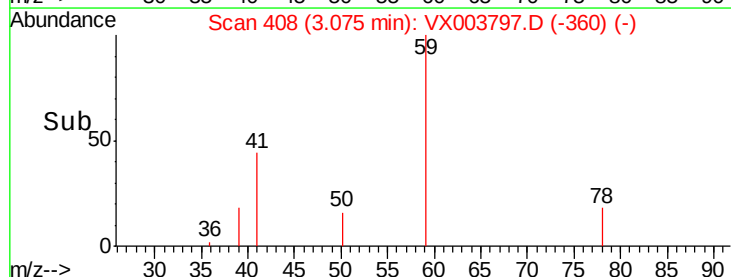
300

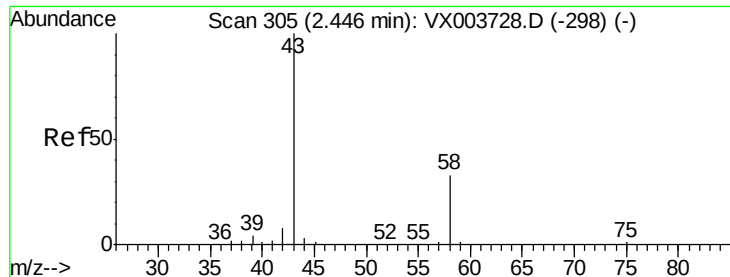
200

100

0

Time-->





#16

Acetone

Concen: 122.55 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

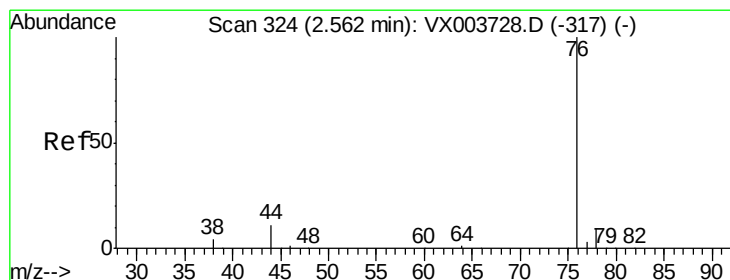
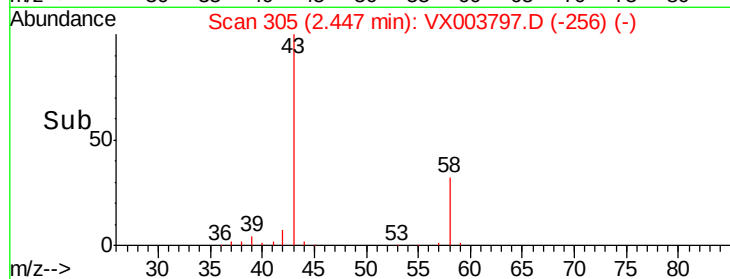
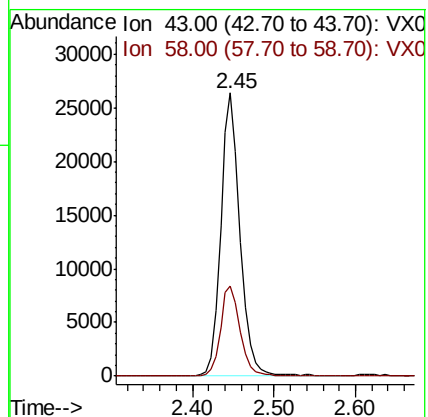
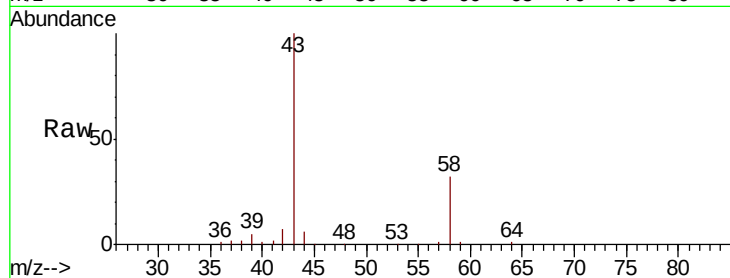
ClientSampled :

Tot Ion: 43 Resp: 43235

Ion Ratio Lower Upper

43 100

58 31.9 26.7 40.1



#17

Carbon Disulfide

Concen: 2.75 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003797.D

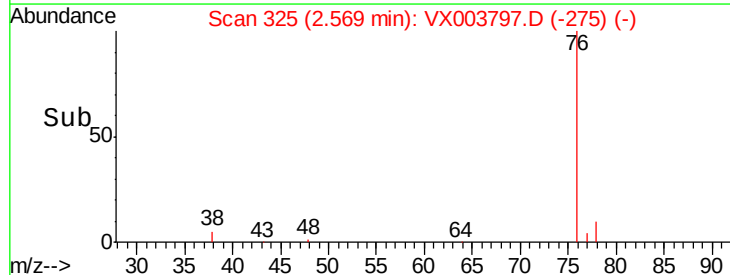
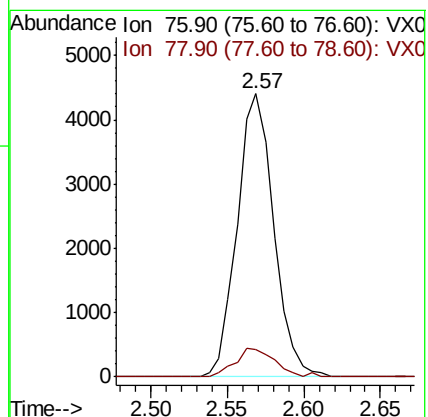
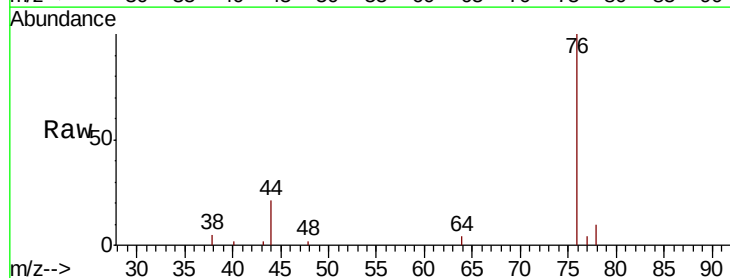
Acq: 01 Aug 2018 16:42

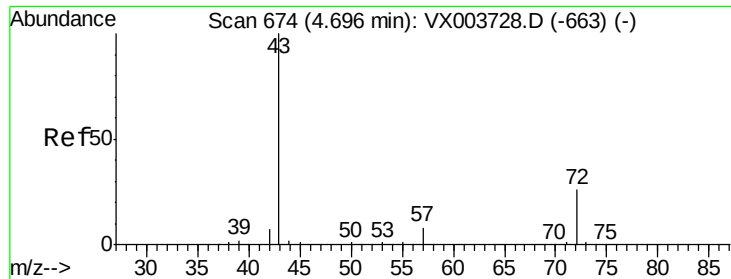
Tgt Ion: 76 Resp: 7314

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9





#25

2-Butanone

Concen: 31.52 ug/l

RT: 4.70 min Scan# 675

Delta R.T. 0.01 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

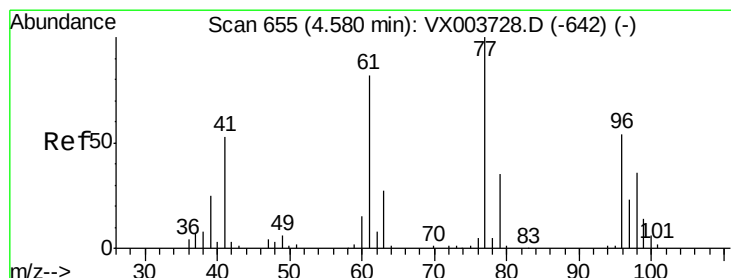
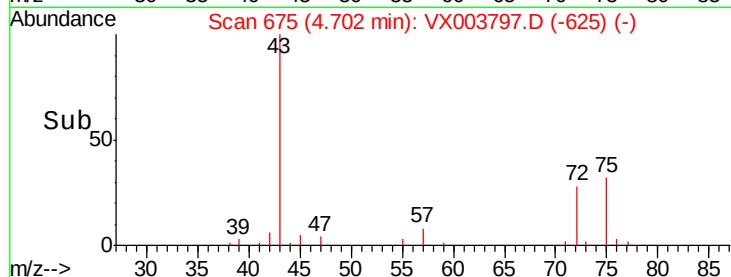
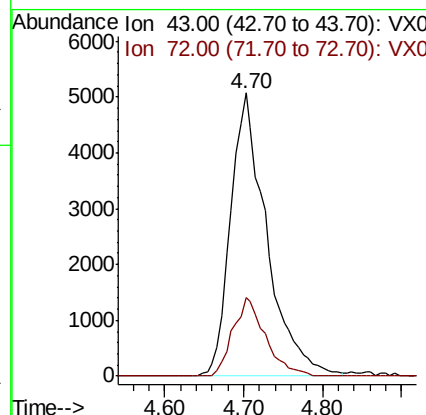
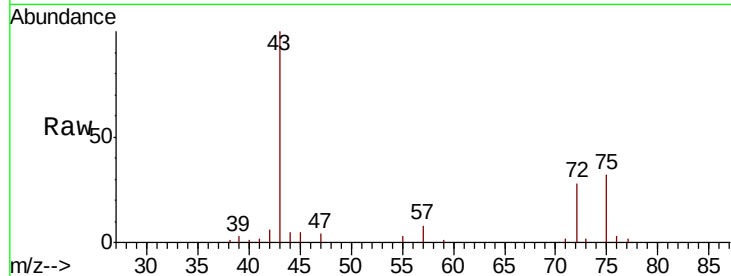
ClientSampleId :

Tot Ion: 43 Resp: 16212

Ion Ratio Lower Upper

43 100

72 28.0 20.9 31.3



#26

2,2-Dichloropropane

Concen: 2.15 ug/l

RT: 4.75 min Scan# 683

Delta R.T. 0.17 min

Lab File: VX003797.D

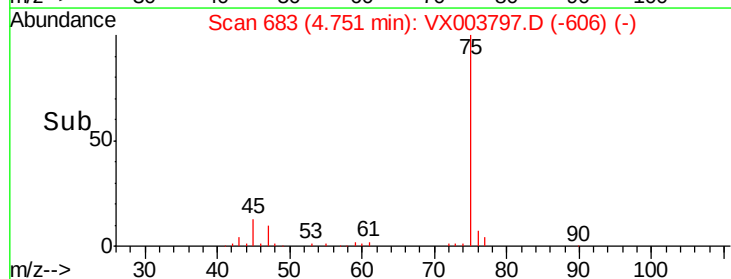
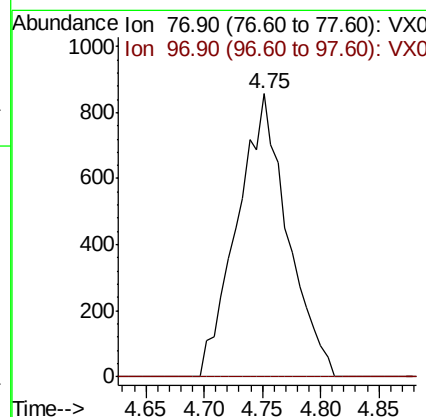
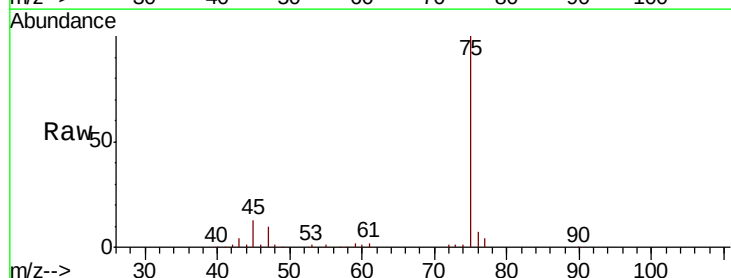
Acq: 01 Aug 2018 16:42

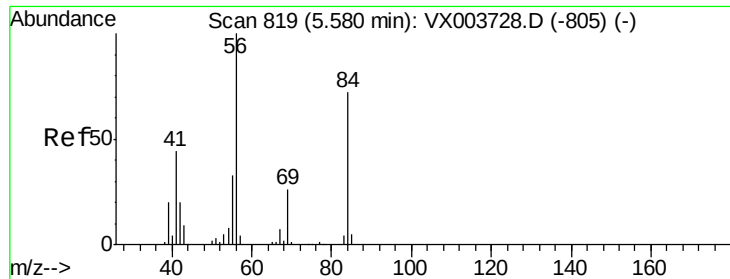
Tgt Ion: 77 Resp: 2576

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.6#

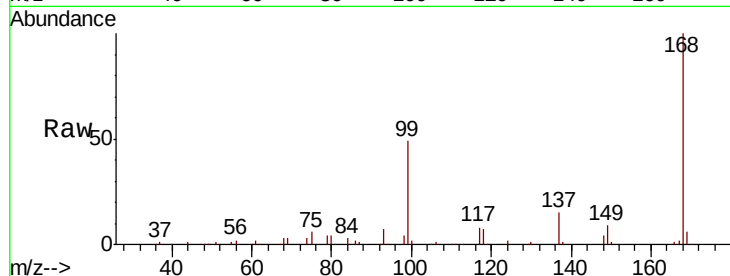




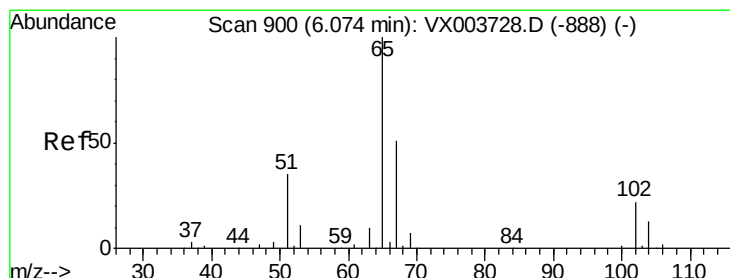
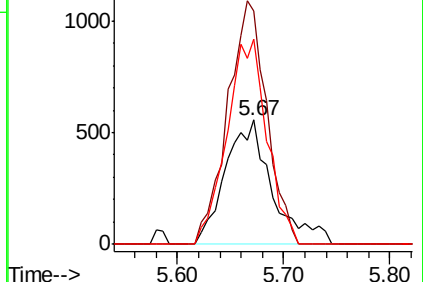
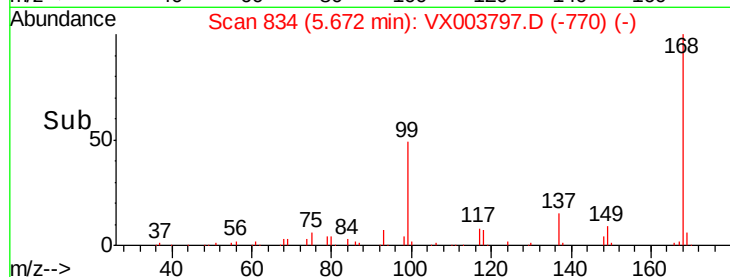
#31
Cyclohexane
Concen: 1.16 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX003797.D
Acq: 01 Aug 2018 16:42

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 1703
Ion Ratio Lower Upper
56 100
69 187.6 20.6 30.8#
84 165.3 57.9 86.9#

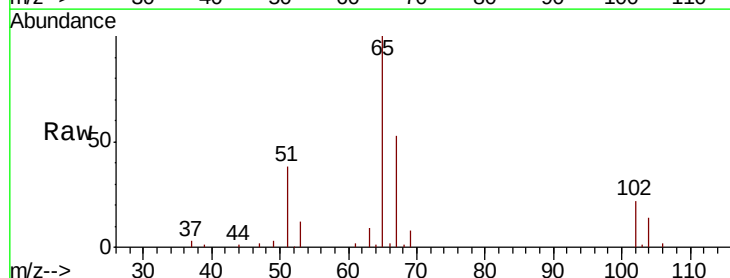


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

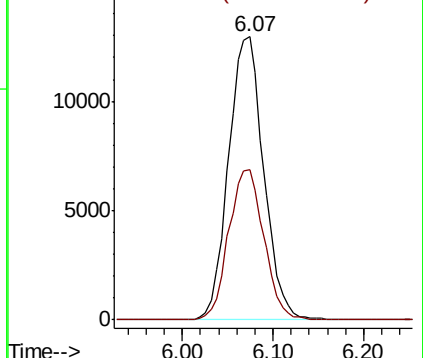
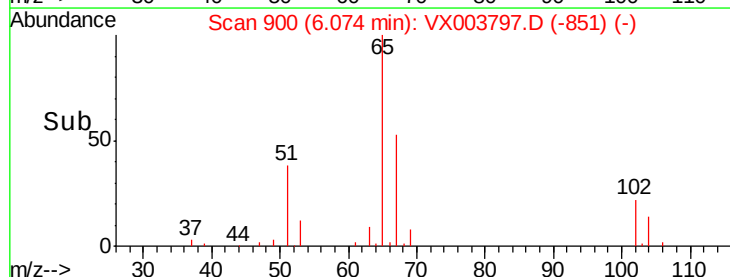


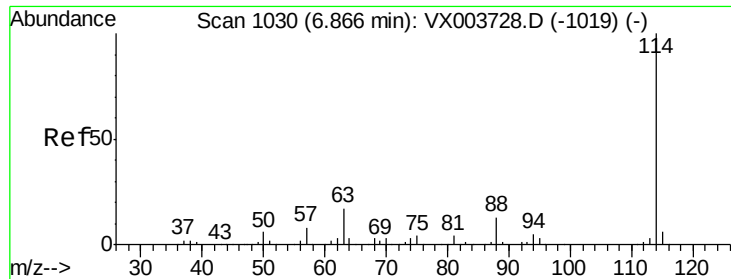
#33
1,2-Dichloroethane-d4
Concen: 37.67 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX003797.D
Acq: 01 Aug 2018 16:42

Tgt Ion: 65 Resp: 34788
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

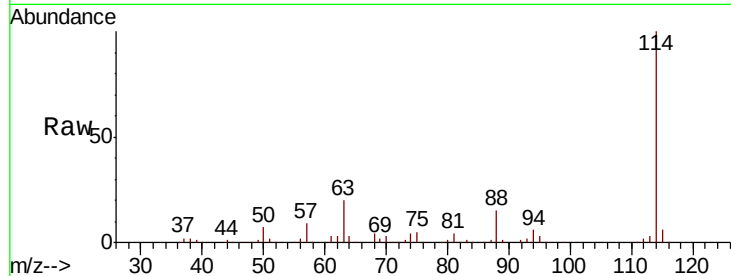




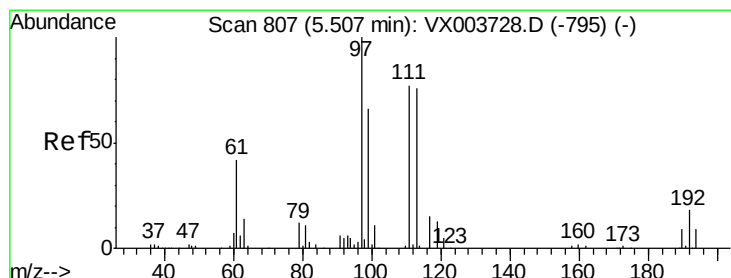
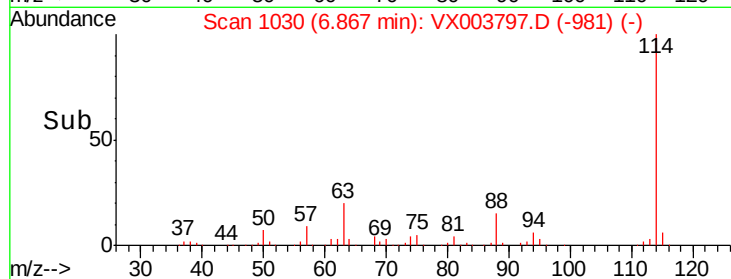
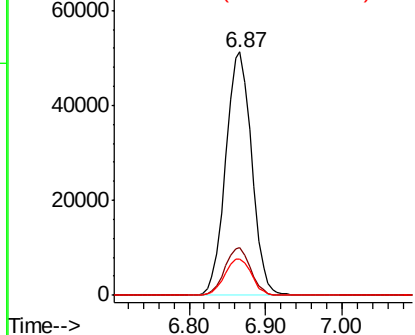
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003797.D
 Acq: 01 Aug 2018 16:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 120311
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 34.0
 88 15.1 0.0 26.4

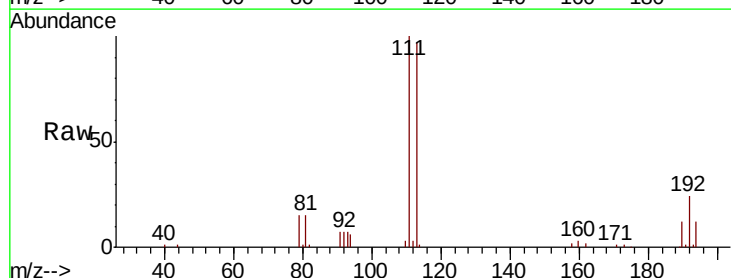


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

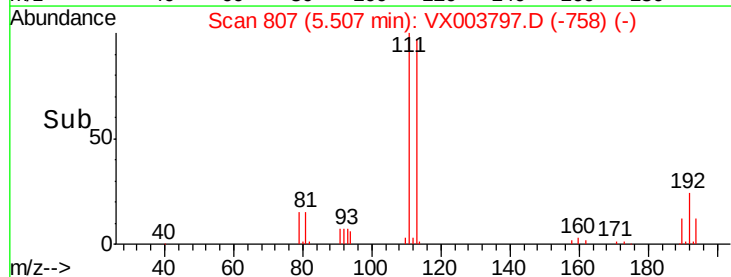
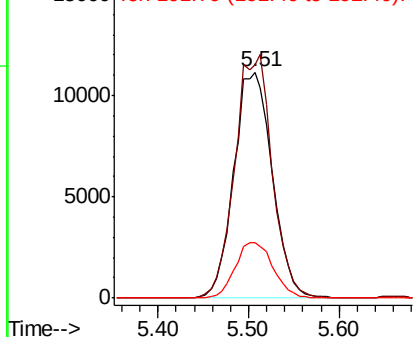


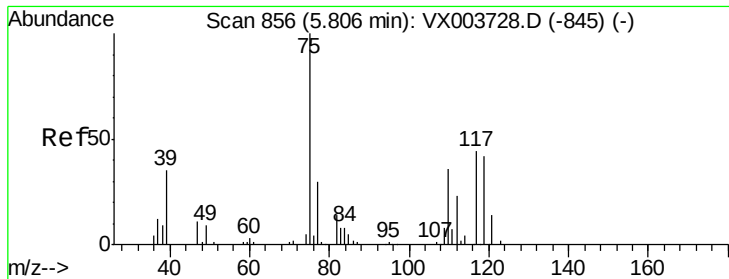
#35
 Dibromofluoromethane
 Concen: 46.23 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003797.D
 Acq: 01 Aug 2018 16:42

Tgt Ion:113 Resp: 32748
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.8 122.6
 192 24.2 18.8 28.2



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: 5.19 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.15 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

ClientSampled :

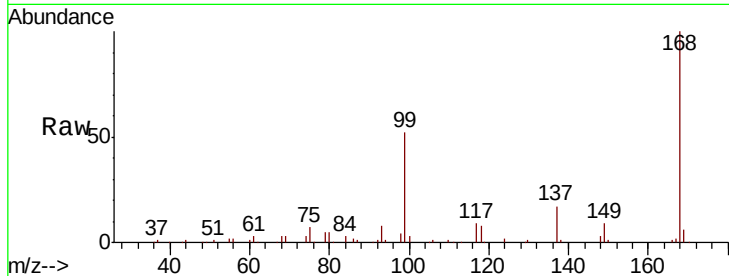
Tot Ion: 75 Resp: 5853

Ion Ratio Lower Upper

75 100

110 7.9 18.3 54.8#

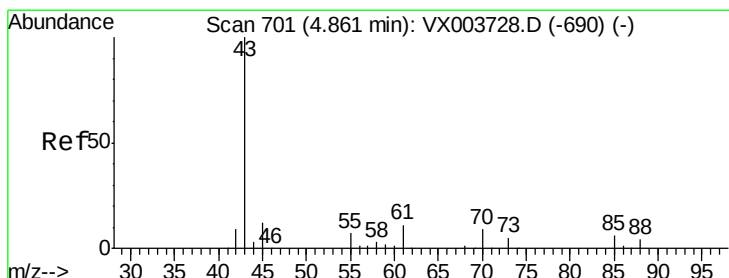
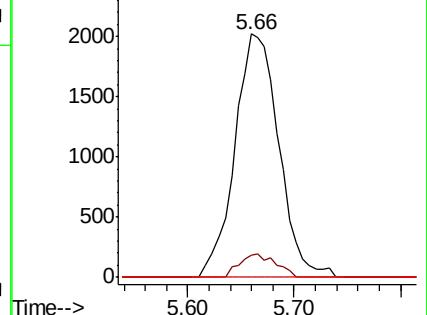
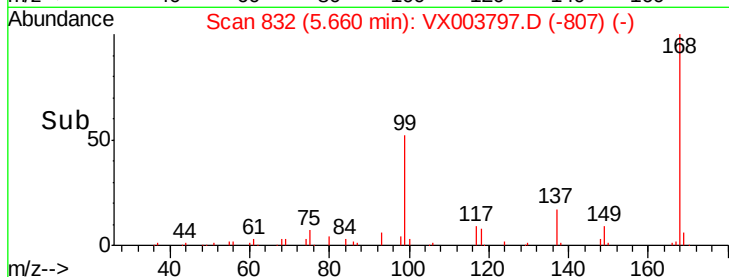
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 18.73 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.16 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

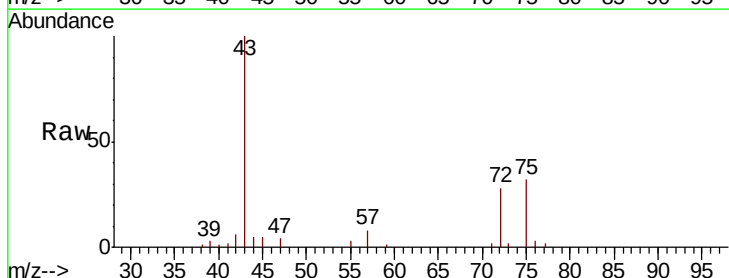
Tgt Ion: 43 Resp: 16212

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

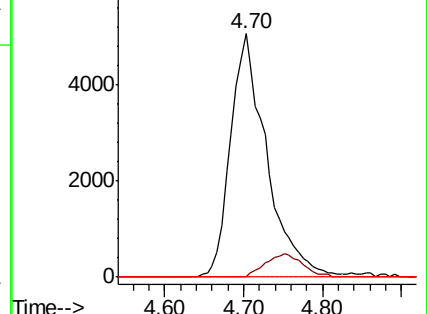
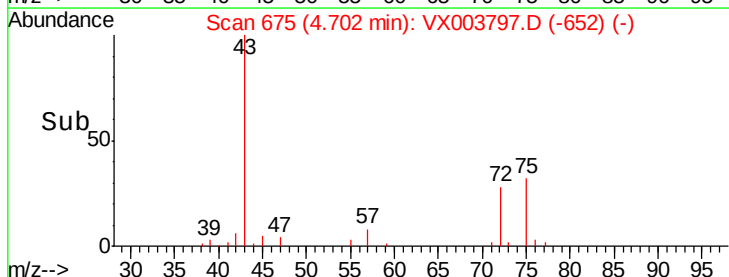
70 0.0 8.2 12.2#

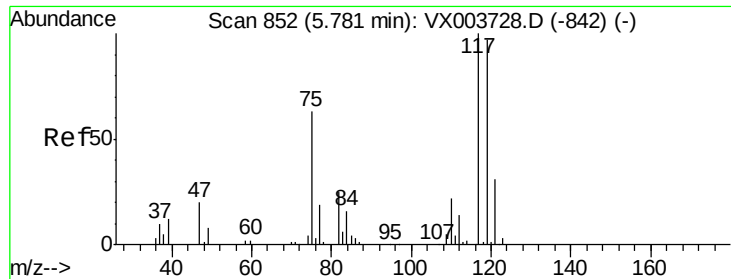


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 7.82 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

ClientSampled :

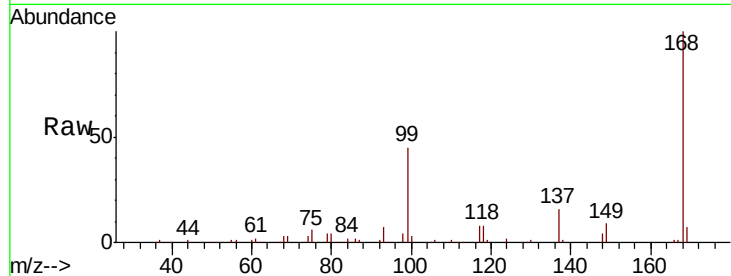
Tot Ion:117 Resp: 8151

Ion Ratio Lower Upper

117 100

119 7.3 77.2 115.8#

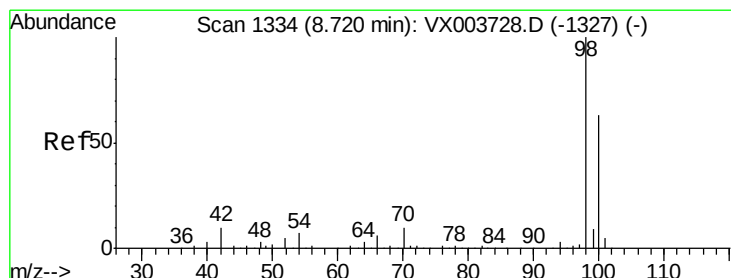
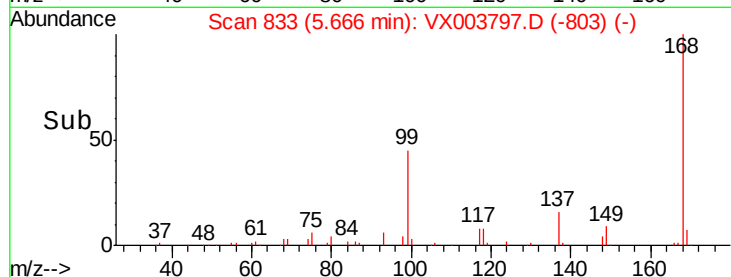
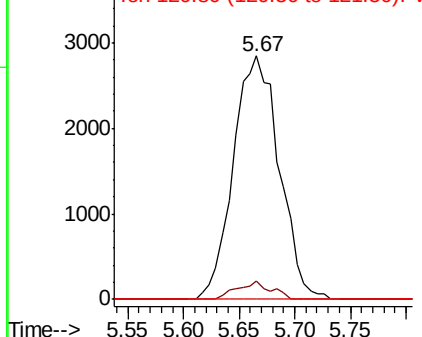
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 41.97 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003797.D

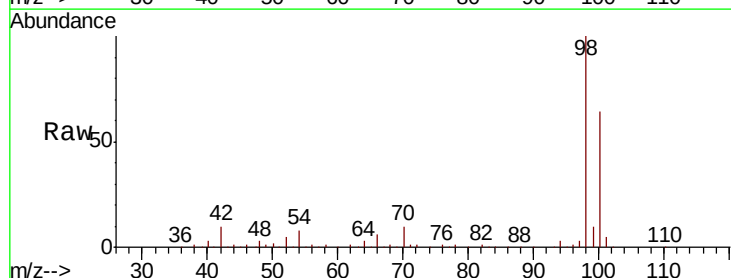
Acq: 01 Aug 2018 16:42

Tgt Ion: 98 Resp: 123974

Ion Ratio Lower Upper

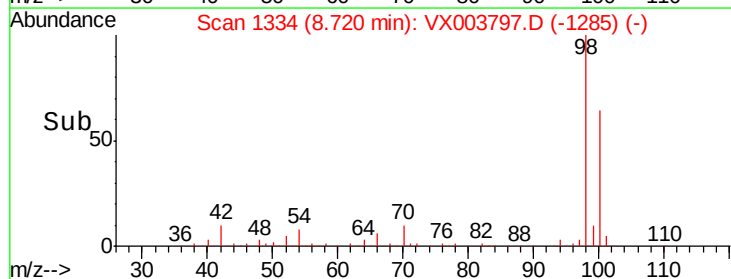
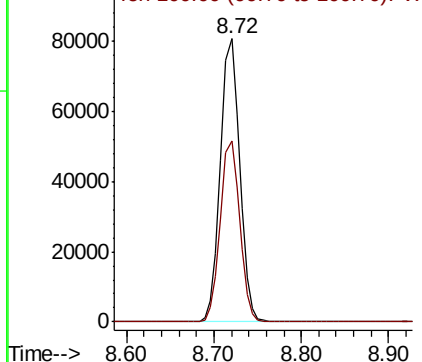
98 100

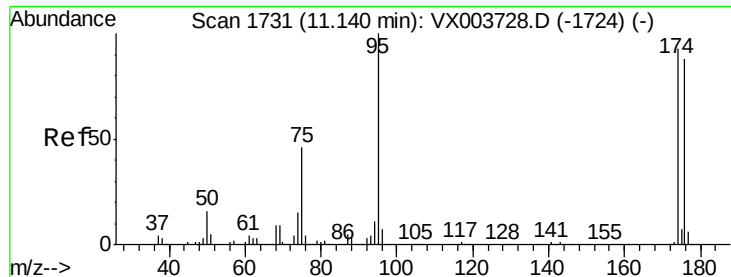
100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 26.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

ClientSampleId :

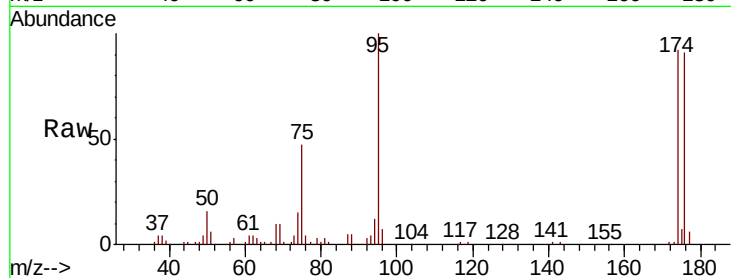
Tot Ion: 95 Resp: 29311

Ion Ratio Lower Upper

95 100

174 93.2 0.0 186.2

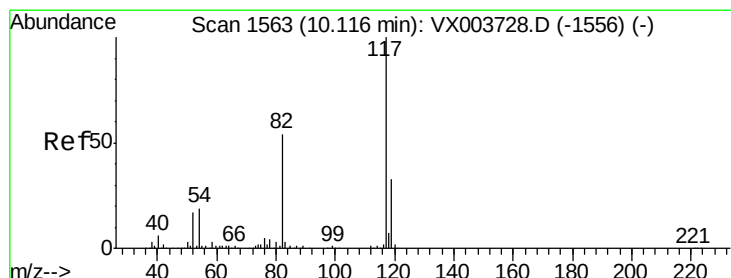
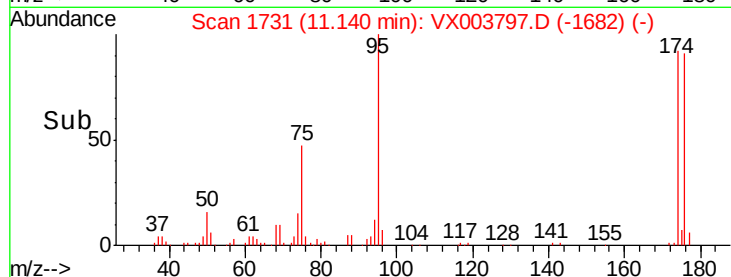
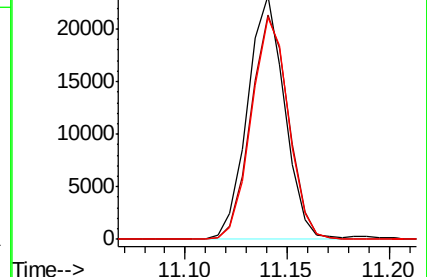
176 91.2 0.0 179.2



Abundance Ion 94.90 (94.60 to 95.60): VX003728.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX003728.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX003728.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

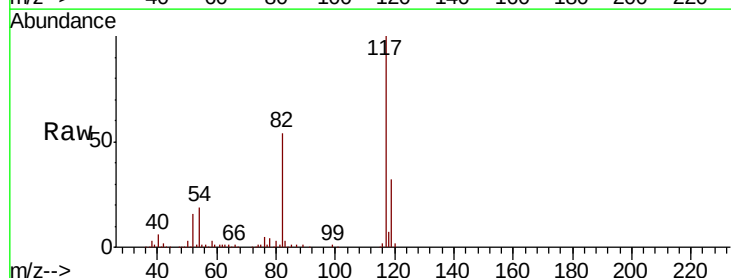
Tgt Ion: 117 Resp: 90546

Ion Ratio Lower Upper

117 100

82 53.8 43.2 64.8

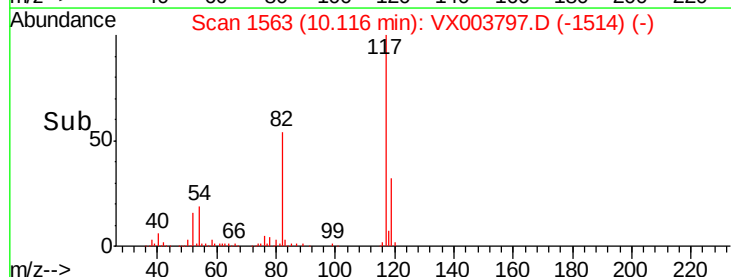
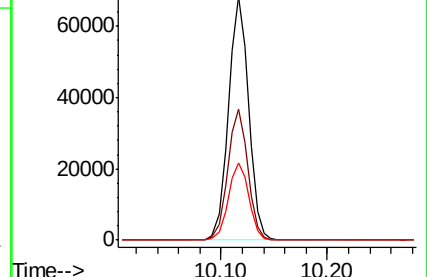
119 31.7 26.3 39.5

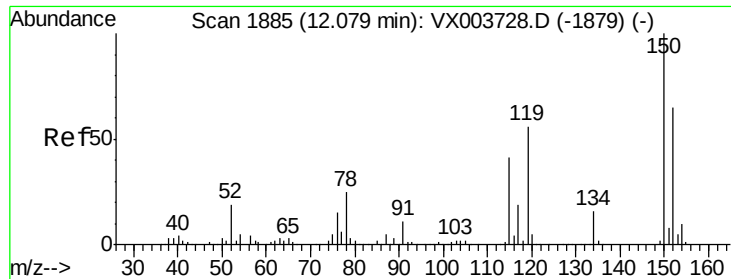


Abundance Ion 116.90 (116.60 to 117.60): VX003728.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX003728.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX003728.D (-1556) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

ClientSampleId :

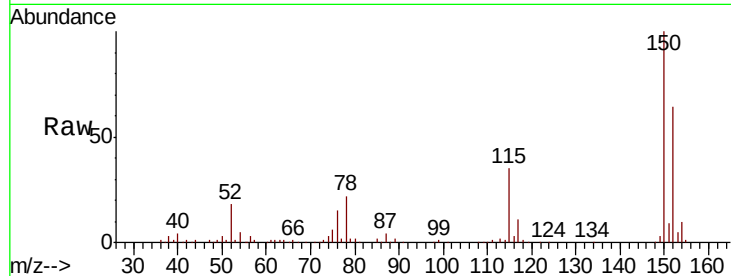
Tot Ion:152 Resp: 27208

Ion Ratio Lower Upper

152 100

115 55.2 38.5 115.3

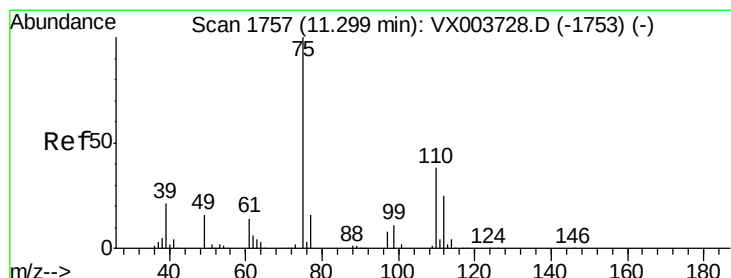
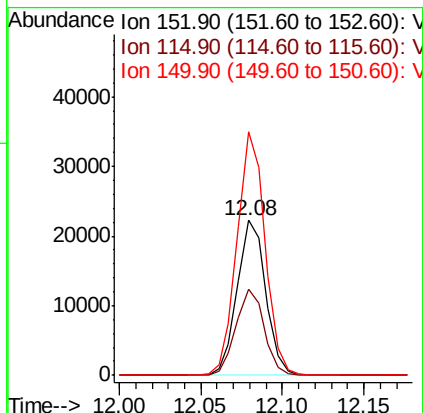
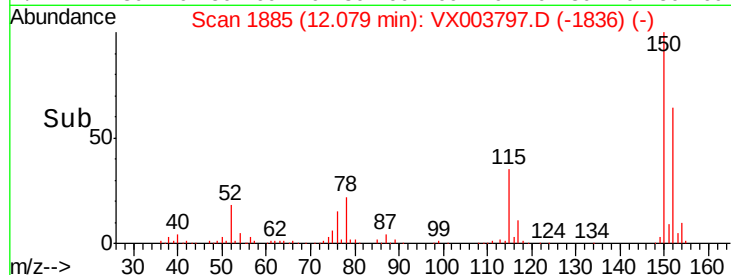
150 154.2 0.0 346.2



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



#76

1,2,3-Trichloropropane

Concen: 37.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003797.D

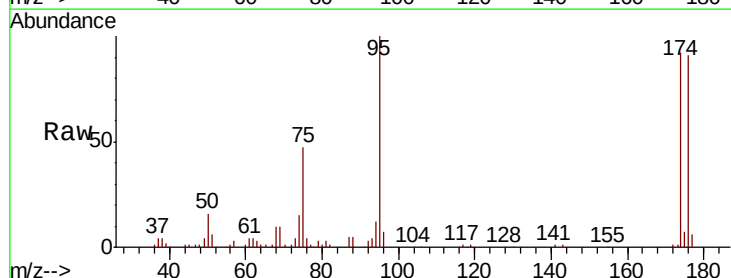
Acq: 01 Aug 2018 16:42

Tgt Ion: 75 Resp: 14098

Ion Ratio Lower Upper

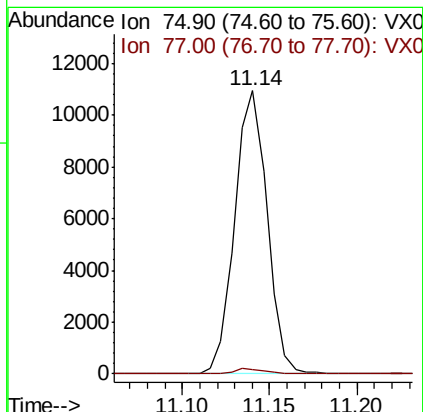
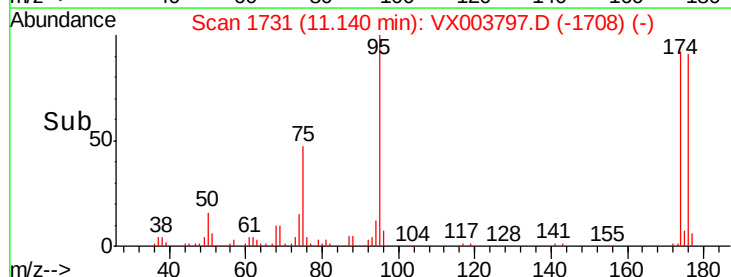
75 100

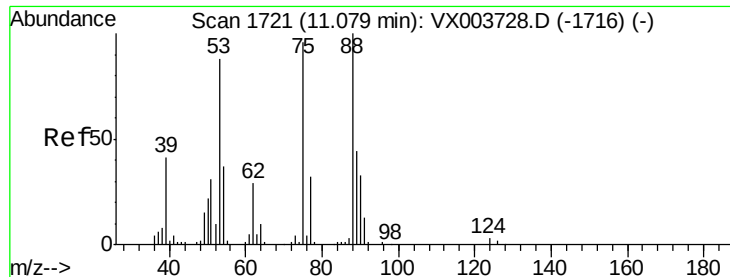
77 1.6 21.6 65.0#



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: 111.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003797.D

Acq: 01 Aug 2018 16:42

Instrument :

MSVOA_X

ClientSampleId :

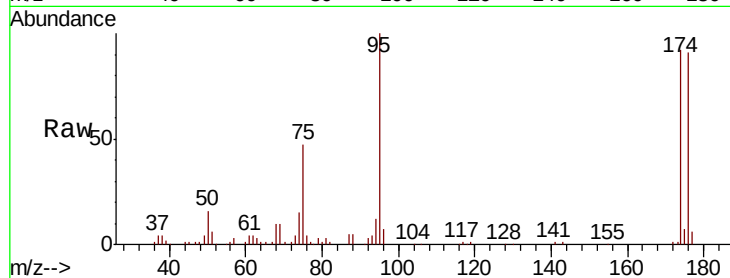
Tot Ion: 75 Resp: 14098

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

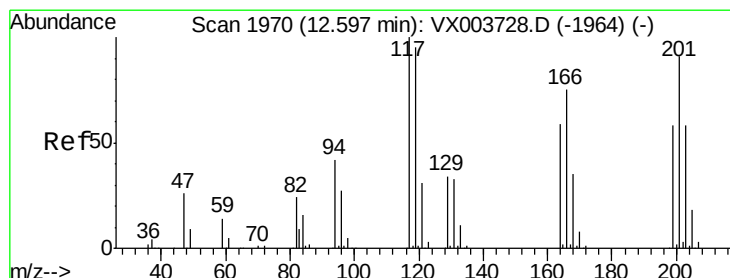
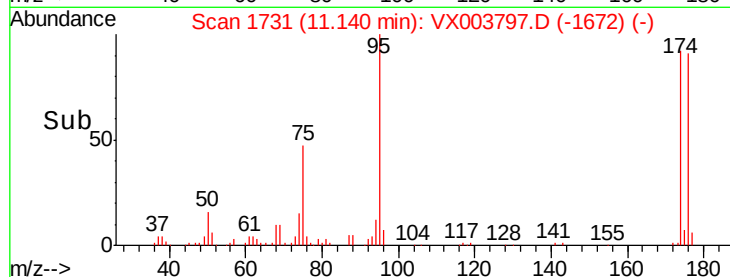
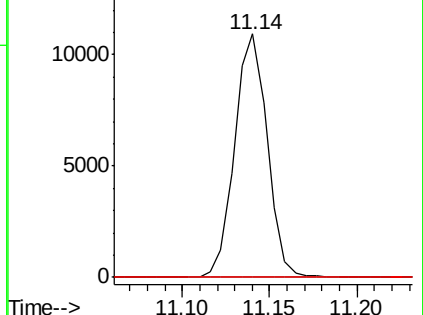
89 0.0 39.1 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 1.64 ug/l

RT: 12.76 min Scan# 1996

Delta R.T. 0.16 min

Lab File: VX003797.D

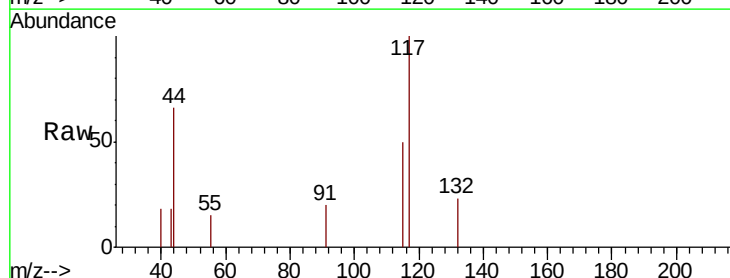
Acq: 01 Aug 2018 16:42

Tgt Ion: 117 Resp: 407

Ion Ratio Lower Upper

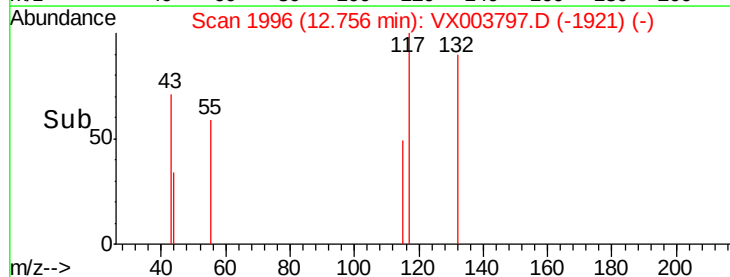
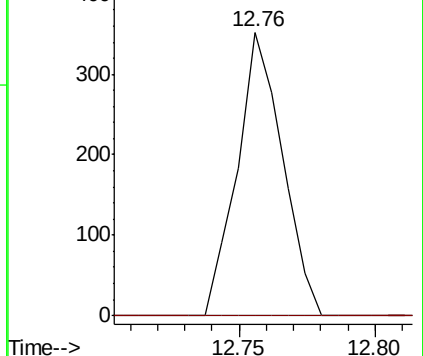
117 100

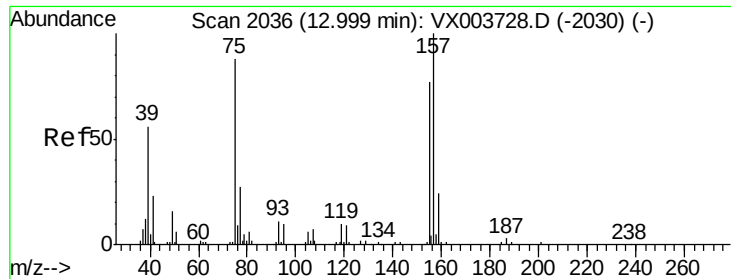
201 0.0 49.3 147.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

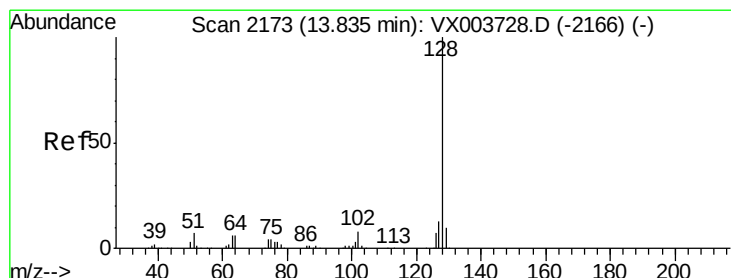
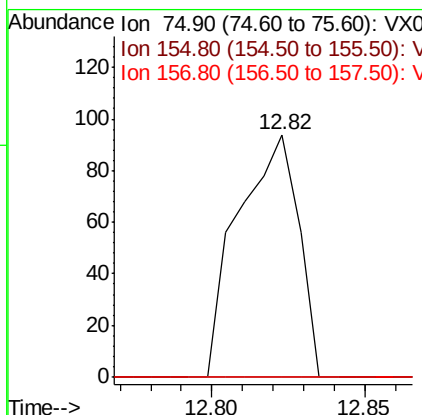
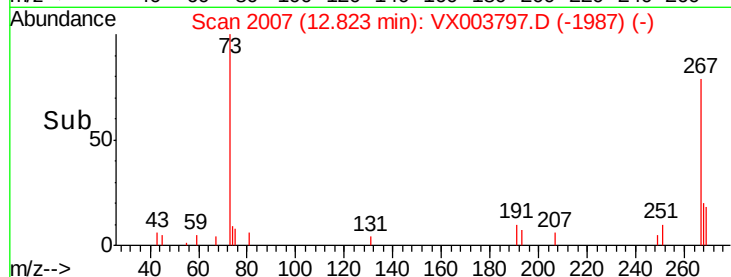
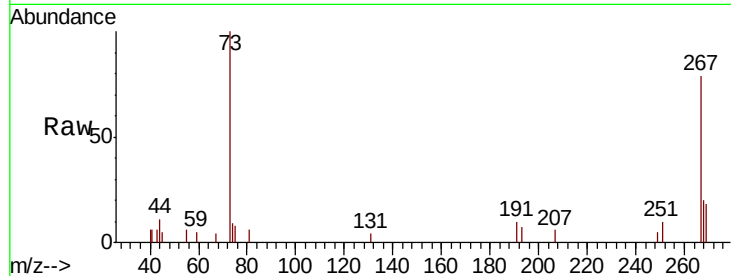




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.47 ug/l
 RT: 12.82 min Scan# 2007
 Delta R.T. -0.18 min
 Lab File: VX003797.D
 Acq: 01 Aug 2018 16:42

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 129
 Ion Ratio Lower Upper
 75 100
 155 0.0 48.9 146.7#
 157 0.0 63.7 191.1#



#95
 Naphthalene
 Concen: 2.63 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VX003797.D
 Acq: 01 Aug 2018 16:42

Tgt Ion:128 Resp: 3723
 Ion Ratio Lower Upper
 128 100
 127 13.8 10.2 15.2
 129 12.3 8.7 13.1

