

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX073118\
 Data File : VX003785.D
 Acq On : 01 Aug 2018 07:40
 Operator : JC/SP
 Sample : J4143-10
 Misc : 11.24G/5.0mL/MSVOA X/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-3(9-11)

Quant Time: Aug 01 08:31:53 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	69616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	96700	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	75983	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	31112	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	27496	39.05	ug/l	0.00
Spiked Amount			Recovery	=	78.10%	
35) Dibromofluoromethane	5.51	113	23372	41.05	ug/l	0.00
Spiked Amount			Recovery	=	82.10%	
50) Toluene-d8	8.72	98	93486	39.38	ug/l	0.00
Spiked Amount			Recovery	=	78.76%	
62) 4-Bromofluorobenzene	11.14	95	25219	28.81	ug/l	0.00
Spiked Amount			Recovery	=	57.62%	

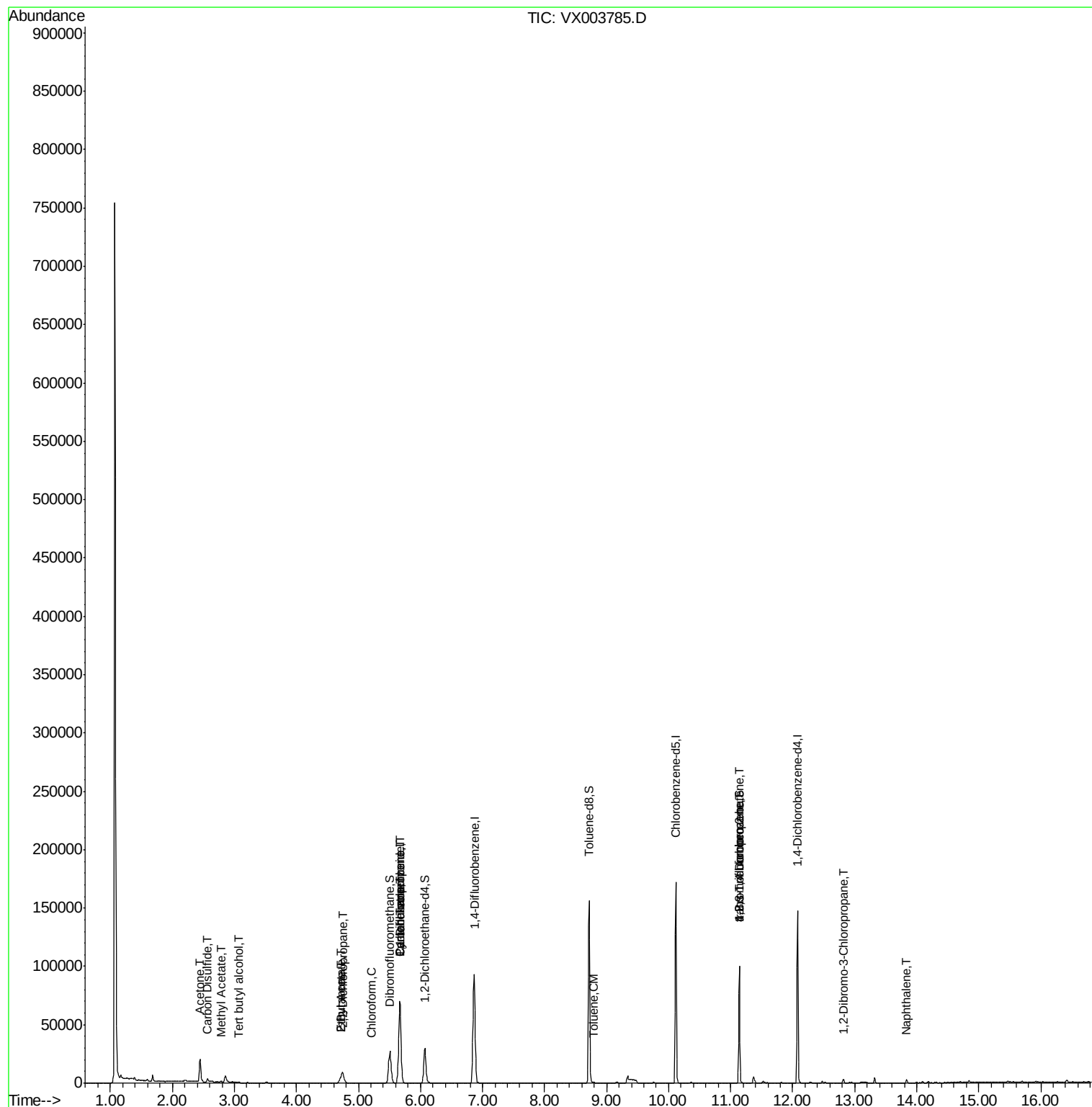
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	88	Below Cal	#	2
11) Tert butyl alcohol	3.07	59	245	2.15	ug/l #	73
16) Acetone	2.45	43	21154	78.66	ug/l	99
17) Carbon Disulfide	2.57	76	2827	1.40	ug/l #	93
18) Methyl Acetate	2.78	43	741	0.98	ug/l #	76
25) 2-Butanone	4.71	43	4960	12.65	ug/l	91
26) 2,2-Dichloropropane	4.74	77	703	0.77	ug/l #	51
30) Chloroform	5.21	83	280	0.24	ug/l	88
31) Cyclohexane	5.66	56	1247	1.11	ug/l #	13
36) 1,1-Dichloropropene	5.67	75	4704	5.19	ug/l #	47
37) Ethyl Acetate	4.71	43	4960	7.13	ug/l #	68
38) Carbon Tetrachloride	5.67	117	5957	7.11	ug/l #	16
52) Toluene	8.79	92	335	0.21	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	12505	29.16	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	12505	86.37	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.82	75	65	0.65	ug/l #	1
95) Naphthalene	13.83	128	1833	1.13	ug/l #	96

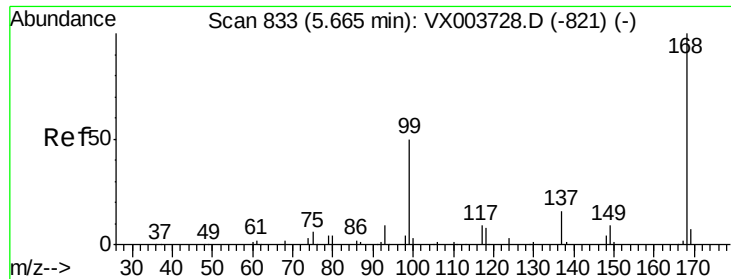
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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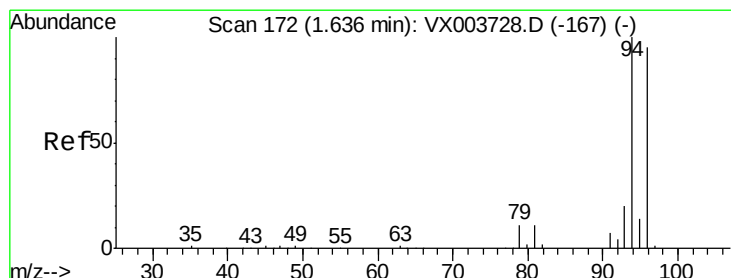
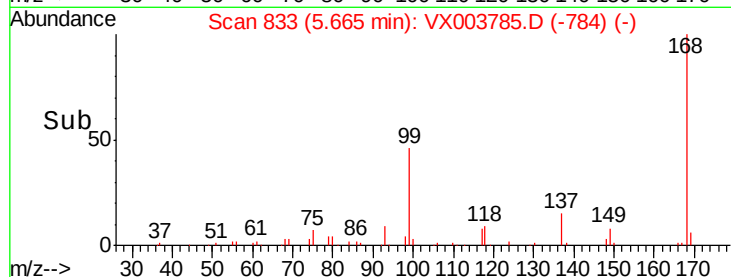
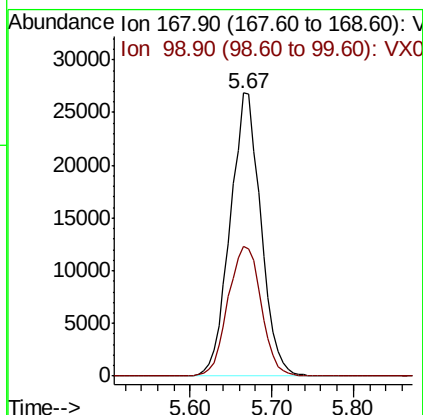
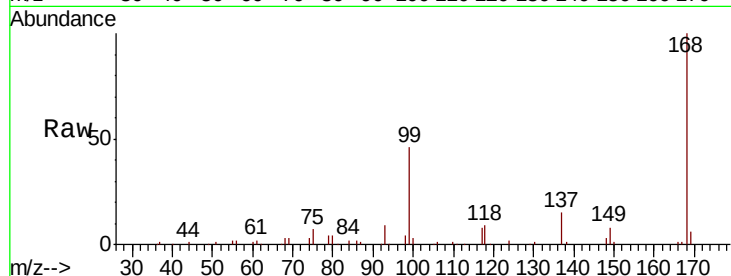




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.00 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

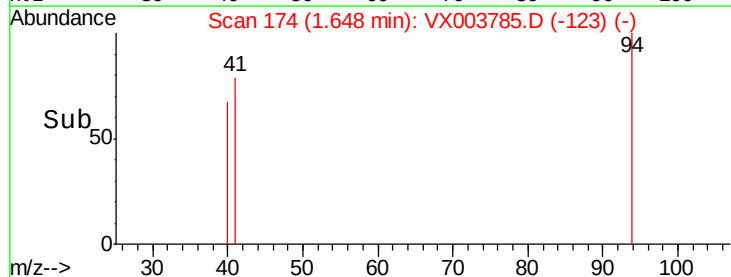
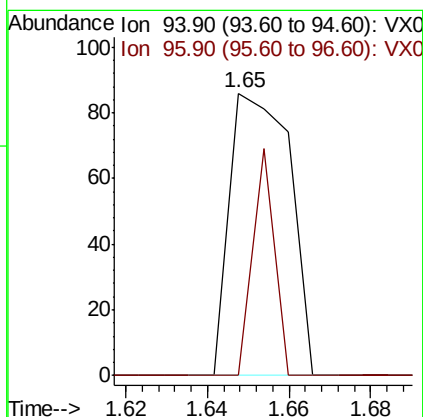
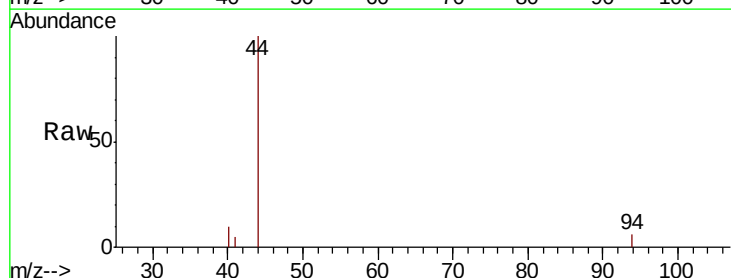
Instrument :
MSVOA_X
ClientSampleId :
SB-3(9-11)

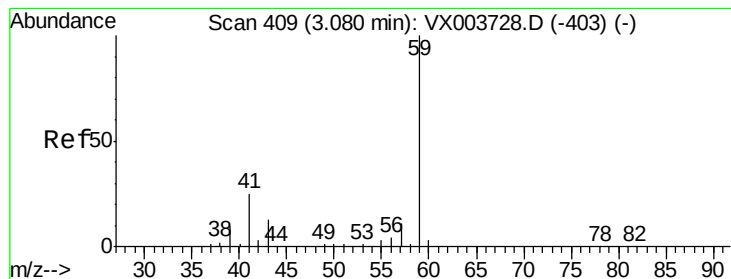
Tot Ion:168 Resp: 69616
Ion Ratio Lower Upper
168 100
99 46.0 40.2 60.2



#5
Bromomethane
Concen: Below Cal
RT: 1.65 min Scan# 174
Delta R.T. 0.01 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

Tgt Ion: 94 Resp: 88
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#





#11

Tert butyl alcohol

Concen: 2.15 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

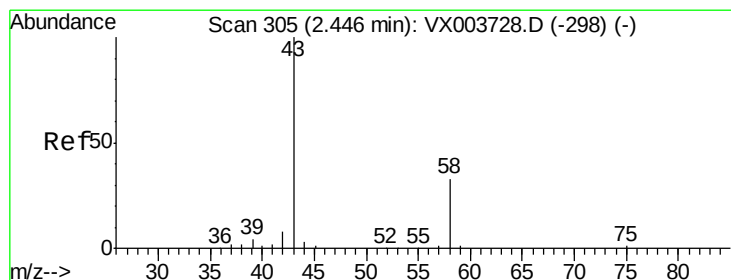
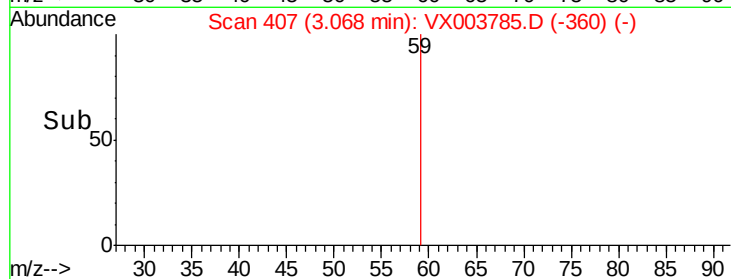
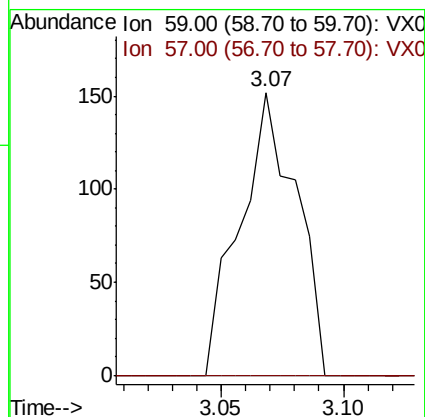
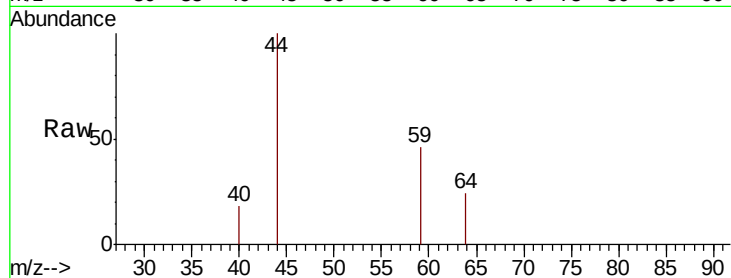
SB-3(9-11)

Tot Ion: 59 Resp: 245

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#16

Acetone

Concen: 78.66 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003785.D

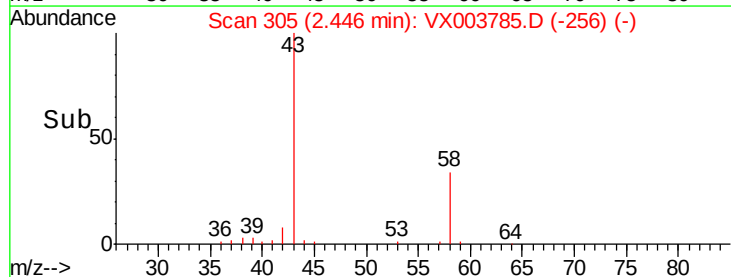
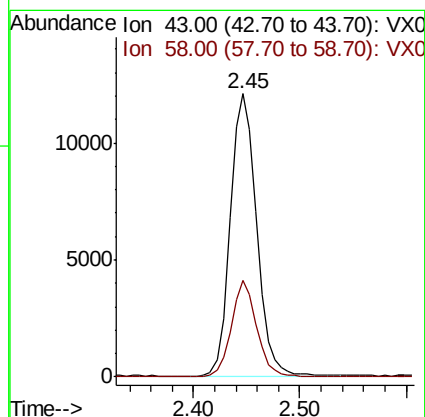
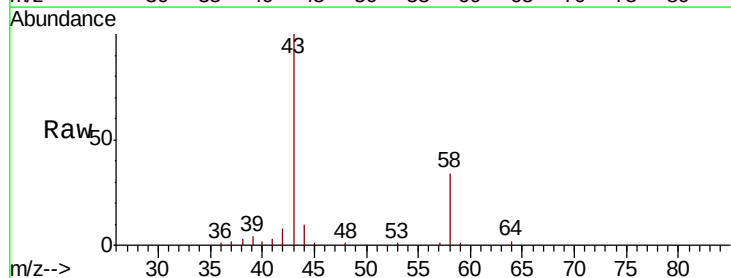
Acq: 01 Aug 2018 07:40

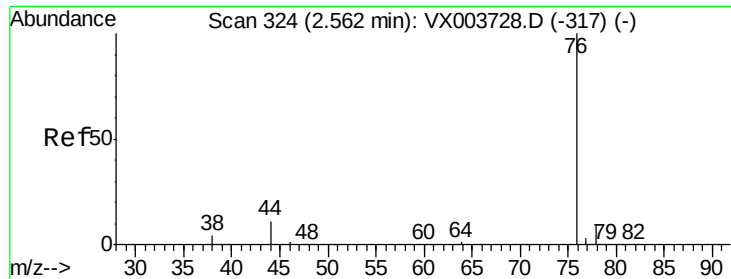
Tgt Ion: 43 Resp: 21154

Ion Ratio Lower Upper

43 100

58 34.1 26.7 40.1





#17

Carbon Disulfide

Concen: 1.40 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

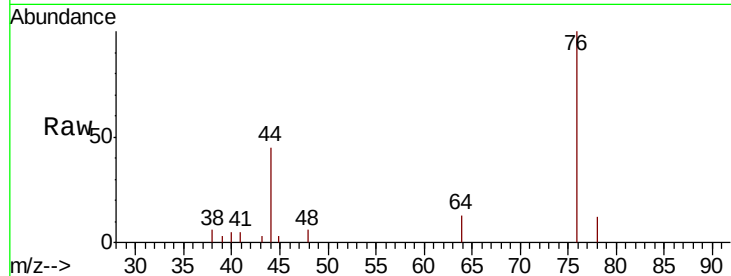
SB-3(9-11)

Tot Ion: 76 Resp: 2827

Ion Ratio Lower Upper

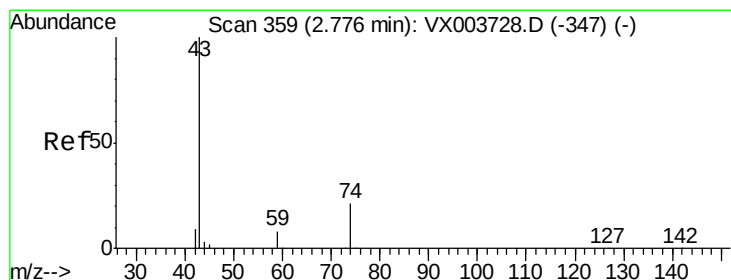
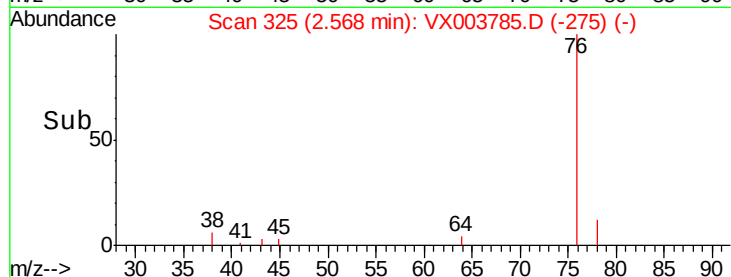
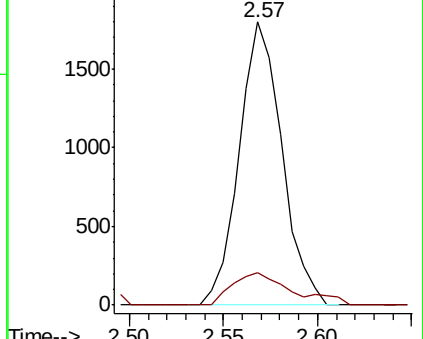
76 100

78 11.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.98 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.01 min

Lab File: VX003785.D

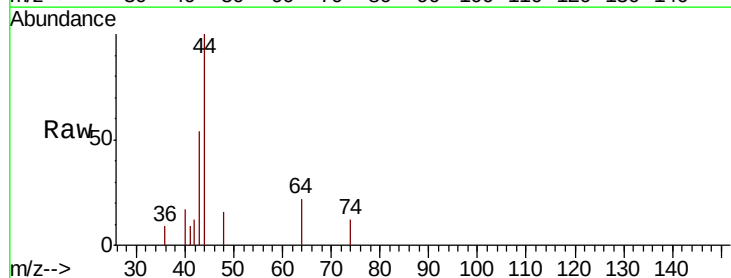
Acq: 01 Aug 2018 07:40

Tgt Ion: 43 Resp: 741

Ion Ratio Lower Upper

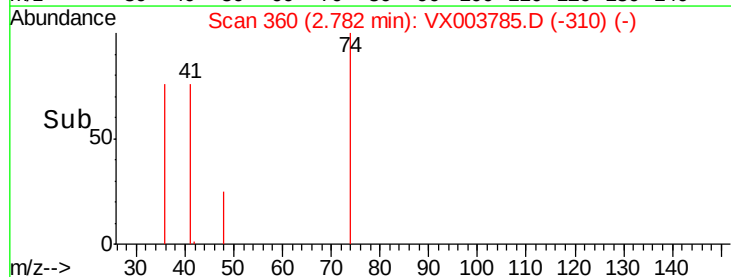
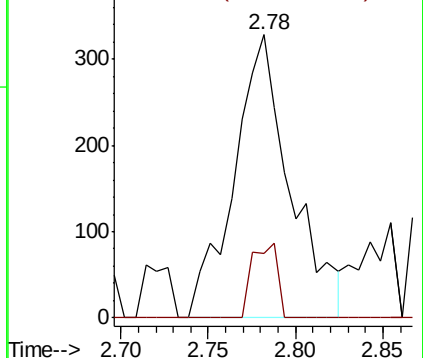
43 100

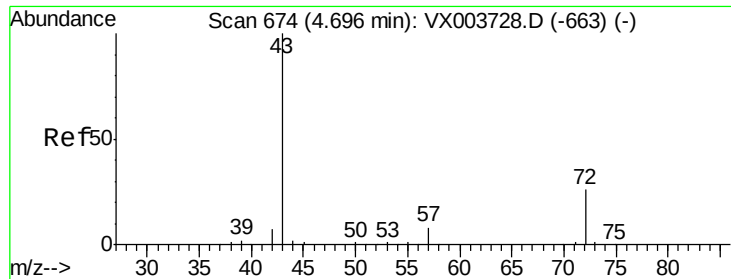
74 11.7 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 12.65 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampled :

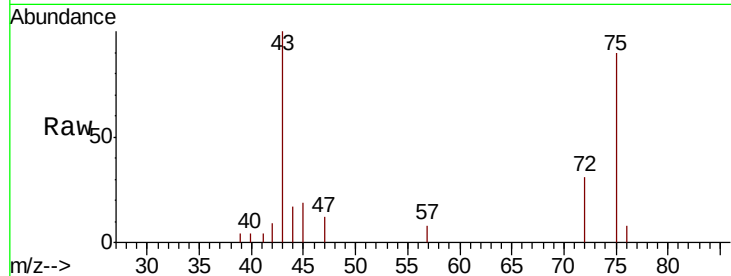
SB-3(9-11)

Tot Ion: 43 Resp: 4960

Ion Ratio Lower Upper

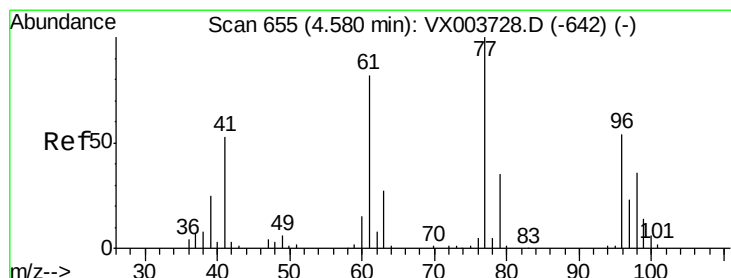
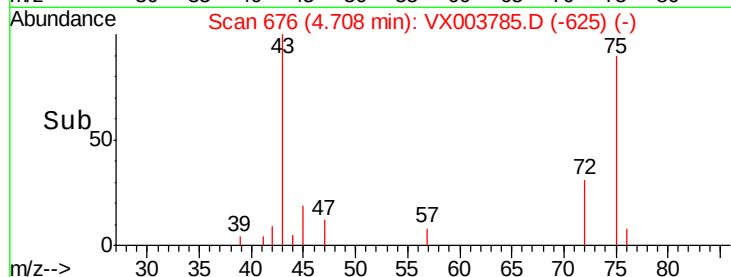
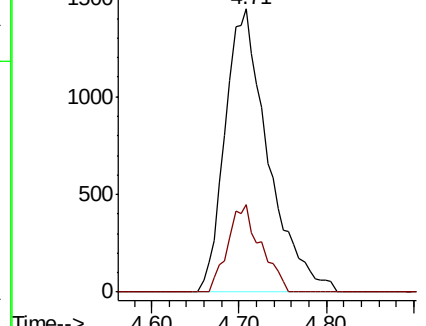
43 100

72 30.8 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.77 ug/l

RT: 4.74 min Scan# 682

Delta R.T. 0.16 min

Lab File: VX003785.D

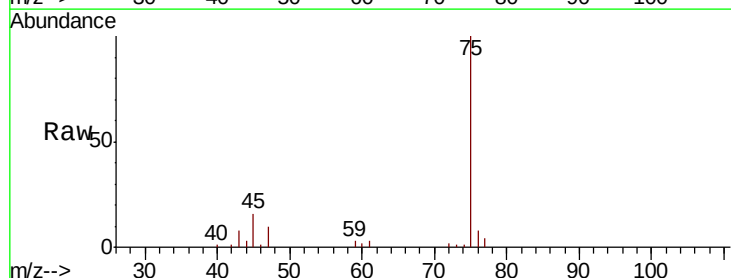
Acq: 01 Aug 2018 07:40

Tgt Ion: 77 Resp: 703

Ion Ratio Lower Upper

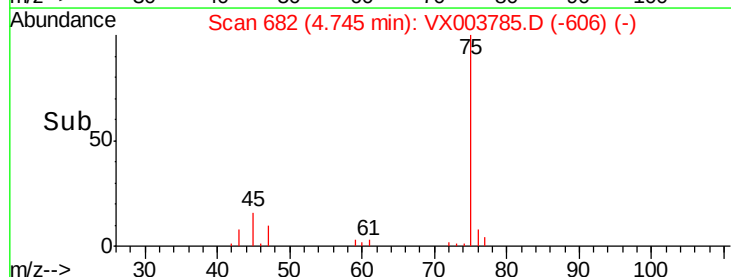
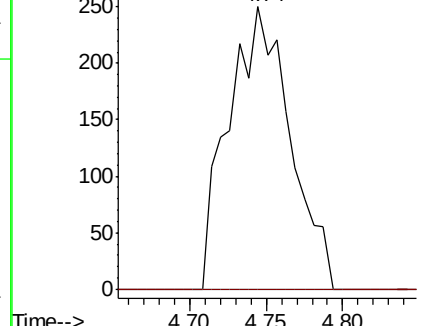
77 100

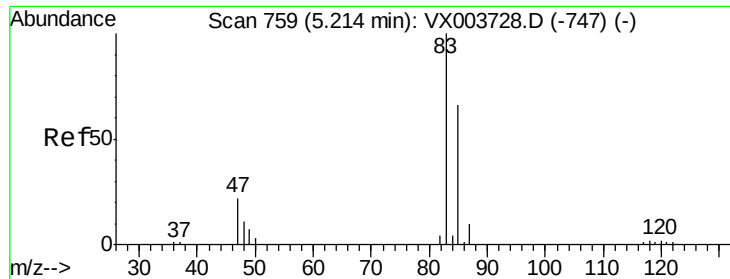
97 0.0 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

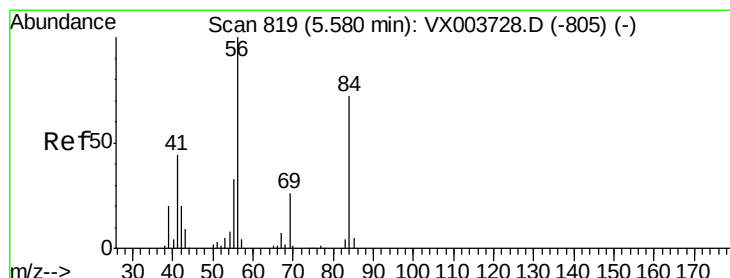
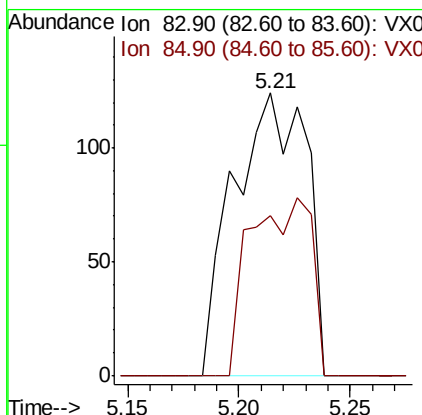
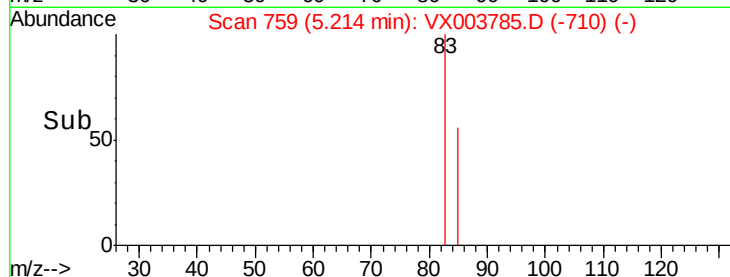
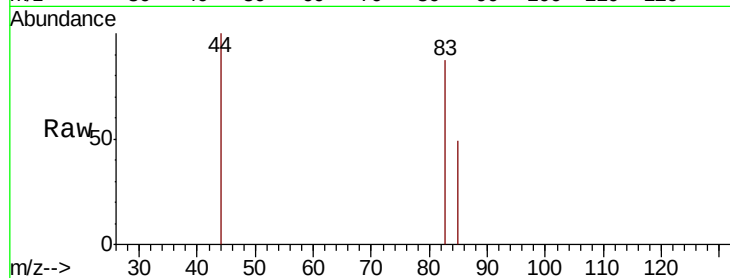




#30
Chloroform
Concen: 0.24 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.00 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

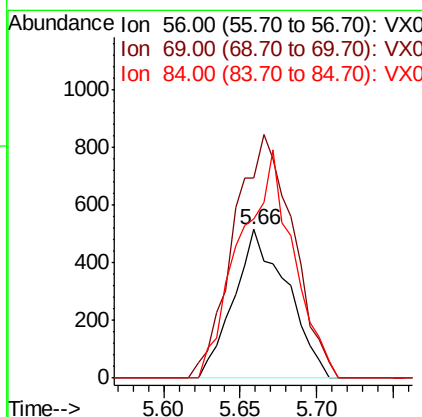
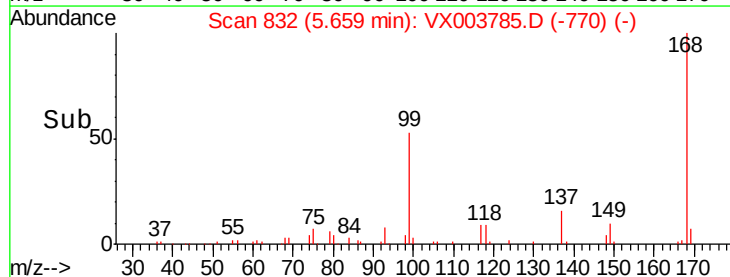
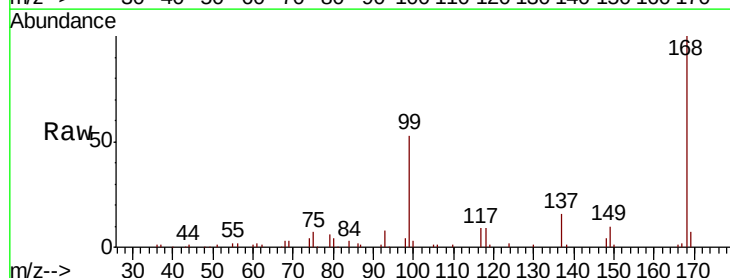
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ClientSampled :
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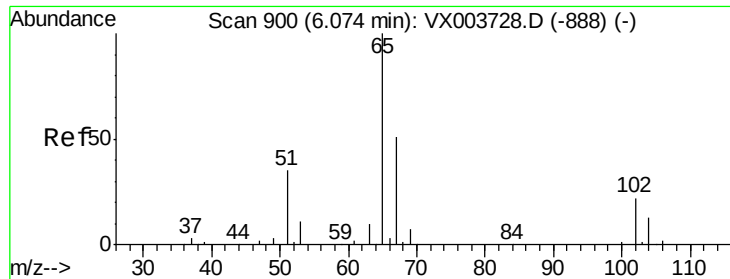
Tot Ion: 83 Resp: 280
Ion Ratio Lower Upper
83 100
85 56.5 52.8 79.2



#31
Cyclohexane
Concen: 1.11 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

Tgt Ion: 56 Resp: 1247
Ion Ratio Lower Upper
56 100
69 134.7 20.6 30.8#
84 107.2 57.9 86.9#

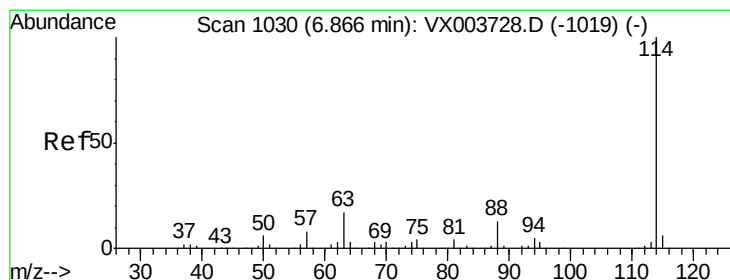
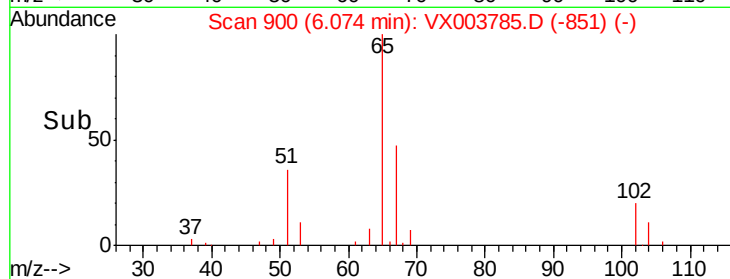
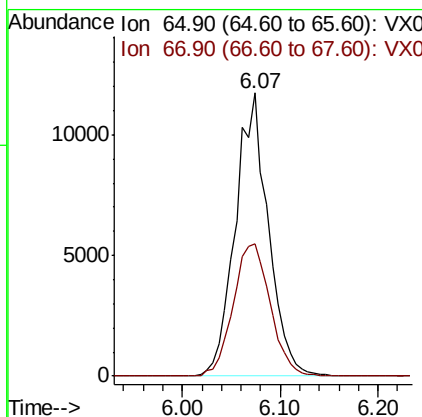
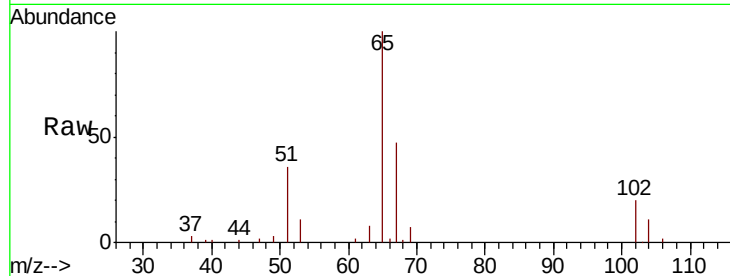




#33
 1,2-Dichloroethane-d4
 Concen: 39.05 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX003785.D
 Acq: 01 Aug 2018 07:40

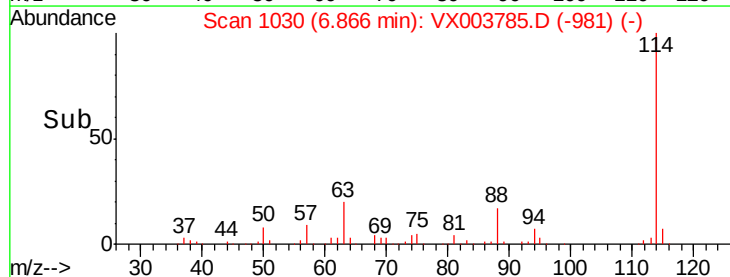
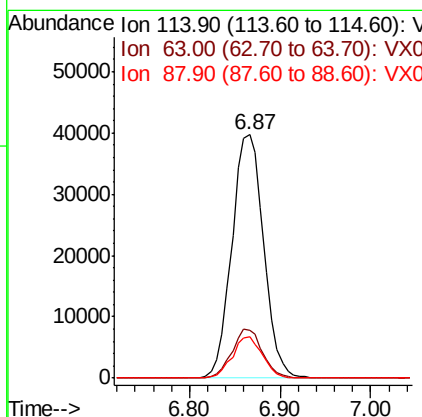
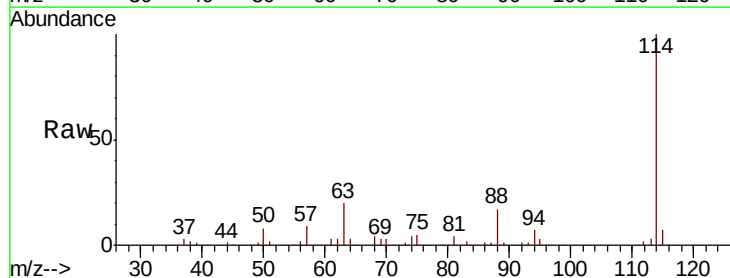
Instrument :
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 SB-3(9-11)

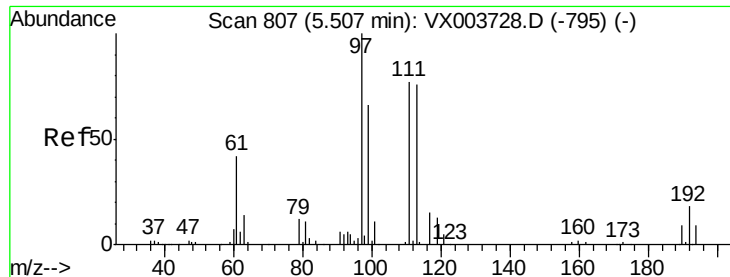
Tot Ion: 65 Resp: 27496
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003785.D
 Acq: 01 Aug 2018 07:40

Tgt Ion: 114 Resp: 96700
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 34.0
 88 17.2 0.0 26.4

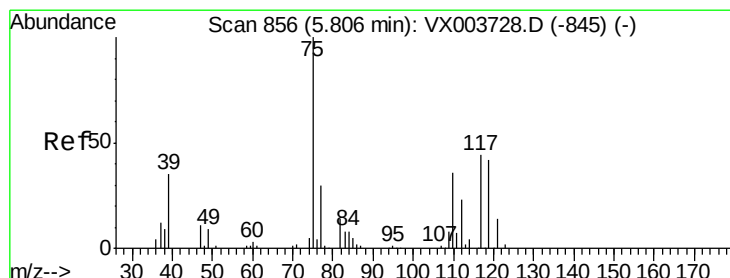
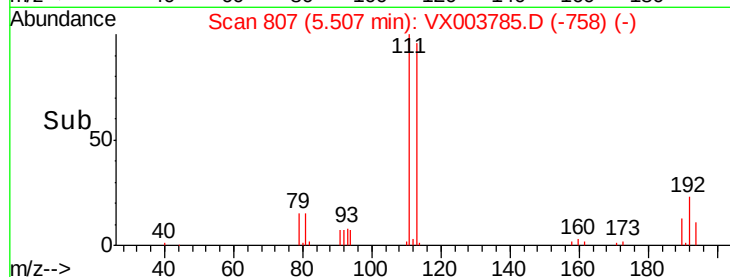
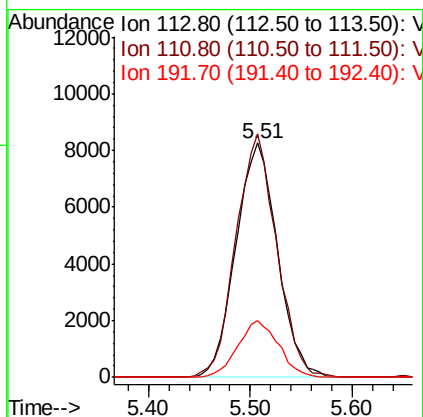
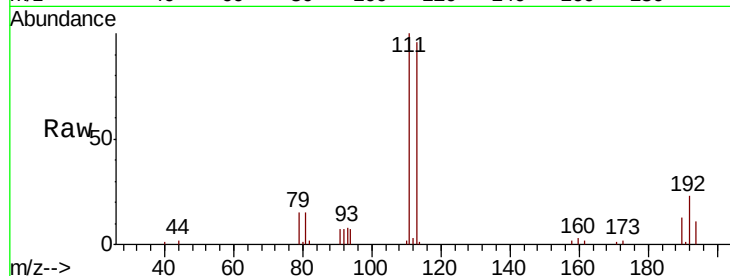




#35
 Dibromofluoromethane
 Concen: 41.05 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003785.D
 Acq: 01 Aug 2018 07:40

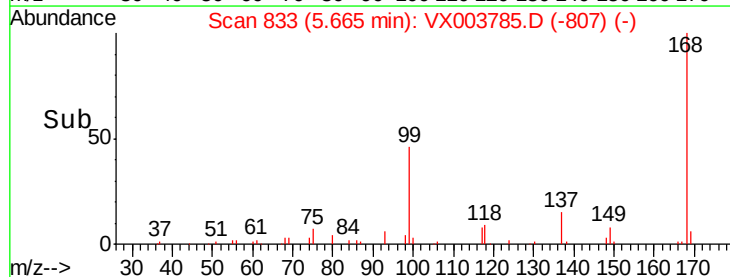
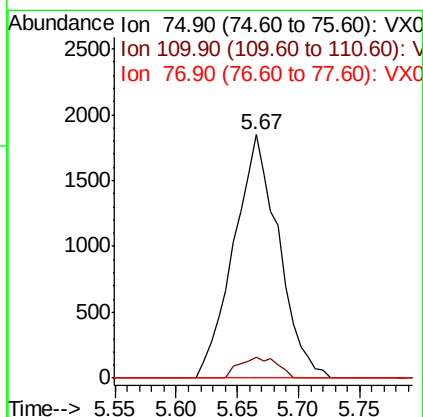
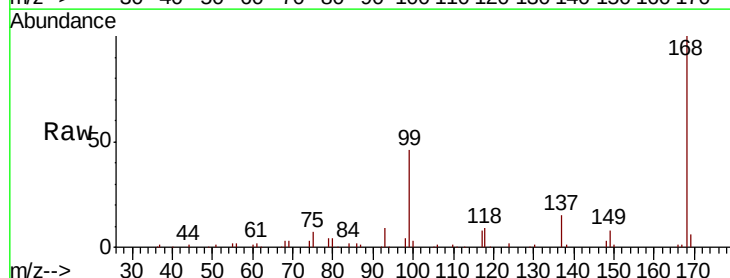
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-3(9-11)

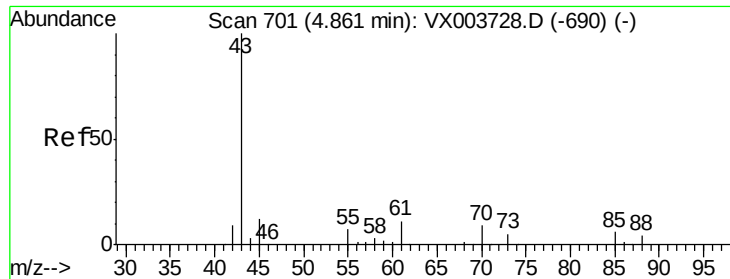
Tot Ion:113 Resp: 23372
 Ion Ratio Lower Upper
 113 100
 111 101.5 81.8 122.6
 192 23.6 18.8 28.2



#36
 1,1-Dichloropropene
 Concen: 5.19 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX003785.D
 Acq: 01 Aug 2018 07:40

Tgt Ion: 75 Resp: 4704
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.3 54.8#
 77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 7.13 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.15 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

SB-3(9-11)

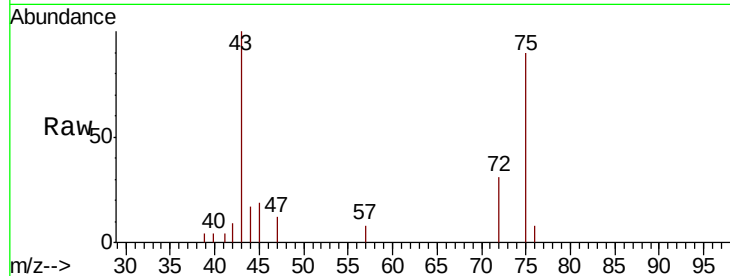
Tot Ion: 43 Resp: 4960

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

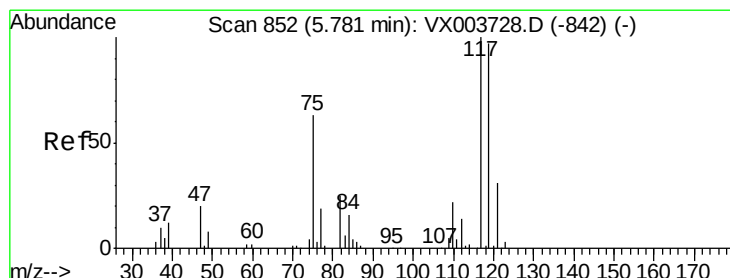
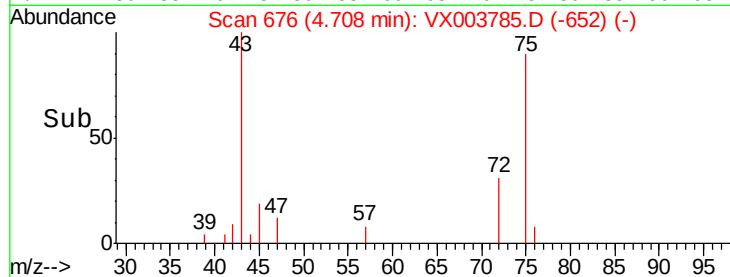
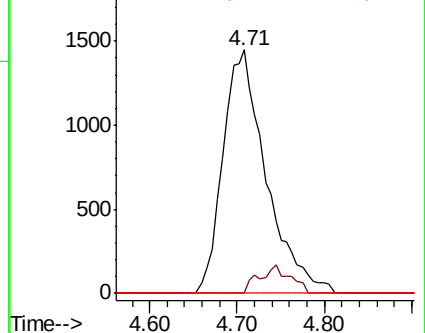
70 0.0 8.2 12.2#



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: 7.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

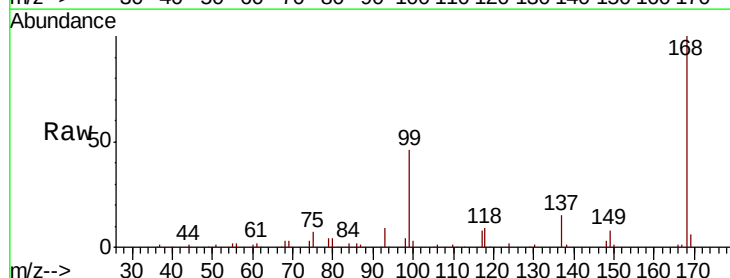
Tgt Ion: 117 Resp: 5957

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

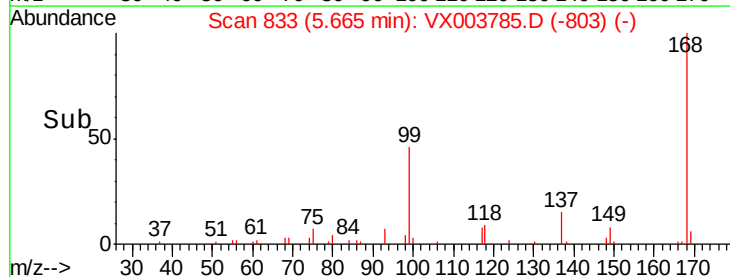
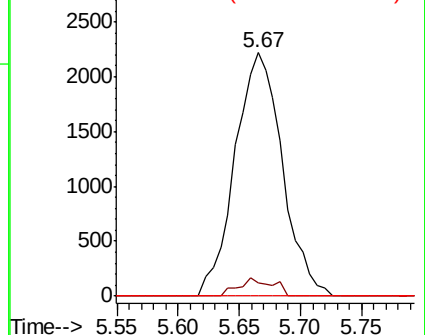
121 0.0 25.0 37.4#

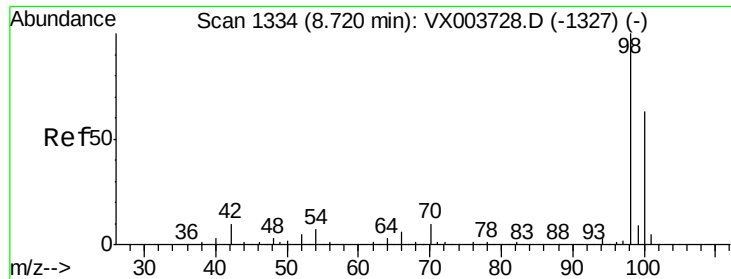


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

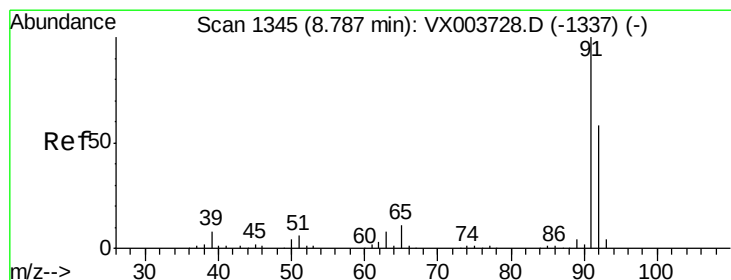
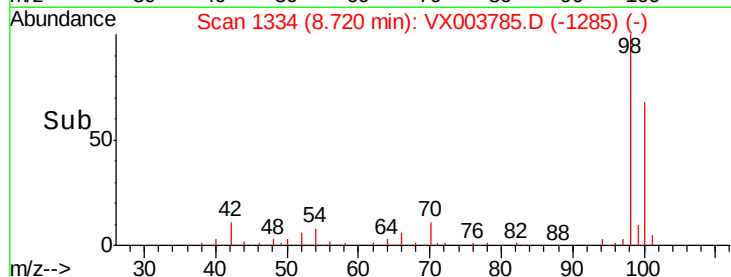
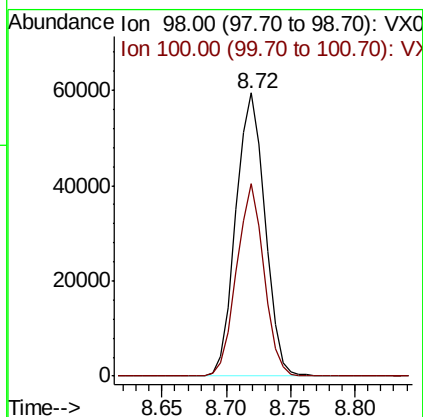
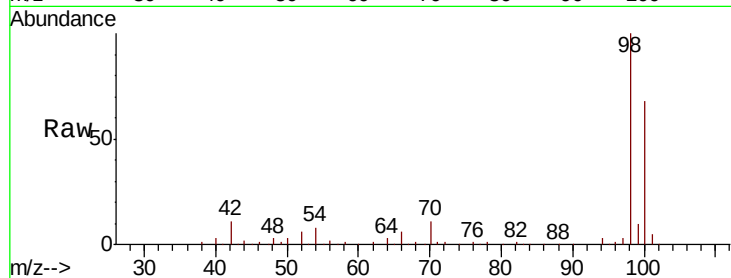




#50
Toluene-d8
Concen: 39.38 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

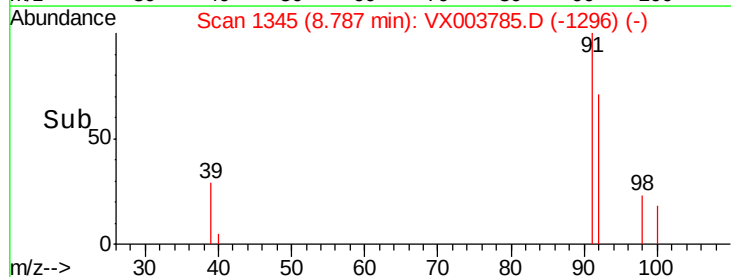
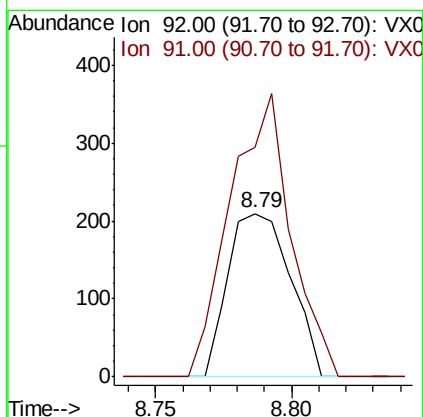
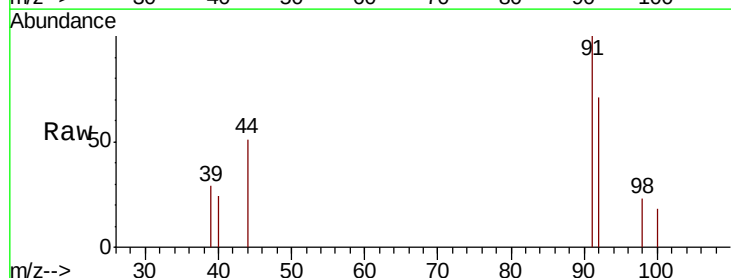
Instrument :
MSVOA_X
ClientSampled :
SB-3(9-11)

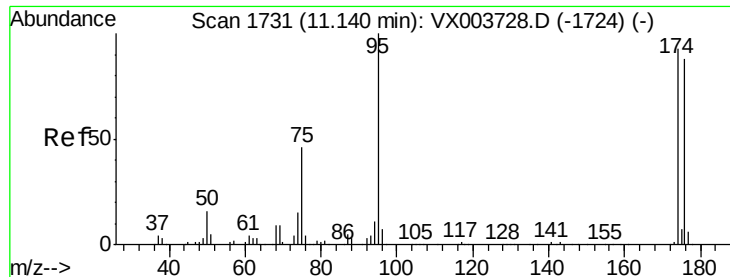
Tot Ion: 98 Resp: 93486
Ion Ratio Lower Upper
98 100
100 63.8 51.4 77.0



#52
Toluene
Concen: 0.21 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

Tgt Ion: 92 Resp: 335
Ion Ratio Lower Upper
92 100
91 167.5 139.4 209.2





#62

4-Bromofluorobenzene

Concen: 28.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

SB-3(9-11)

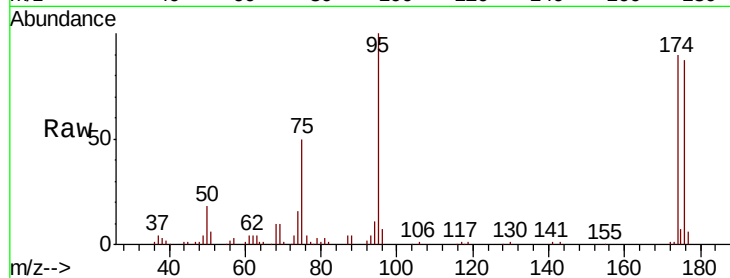
Tot Ion: 95 Resp: 25219

Ion Ratio Lower Upper

95 100

174 92.5 0.0 186.2

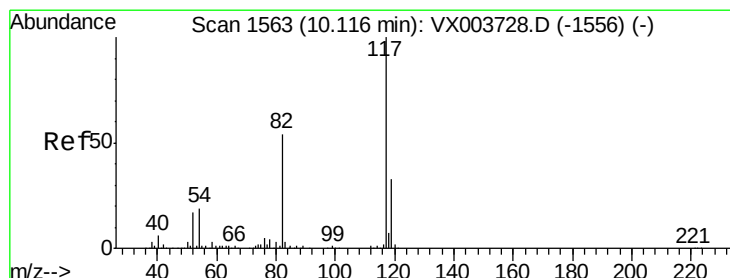
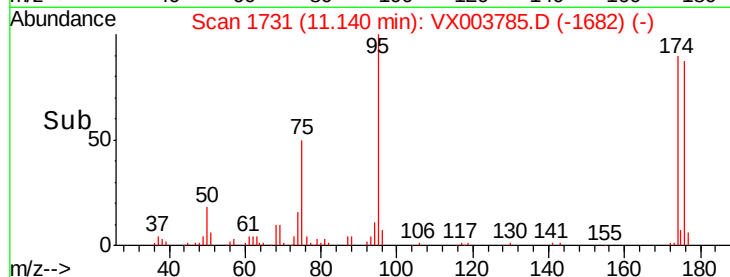
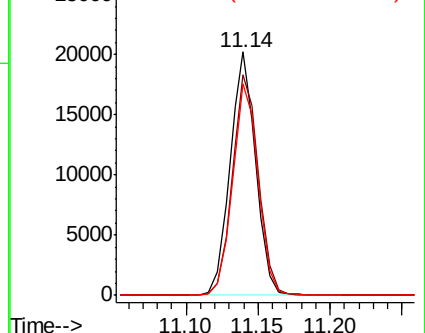
176 87.1 0.0 179.2



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

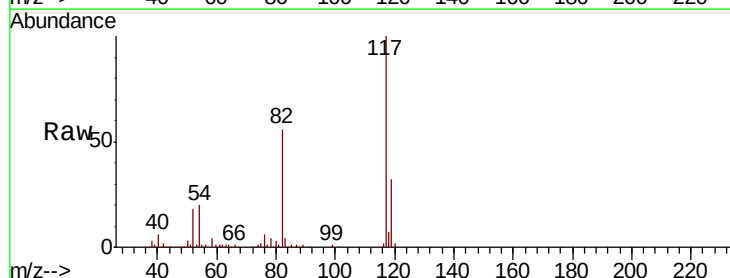
Tgt Ion: 117 Resp: 75983

Ion Ratio Lower Upper

117 100

82 55.7 43.2 64.8

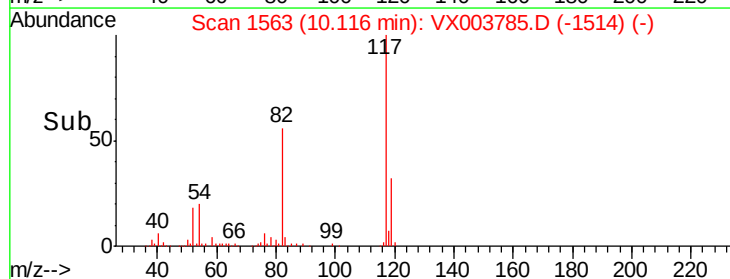
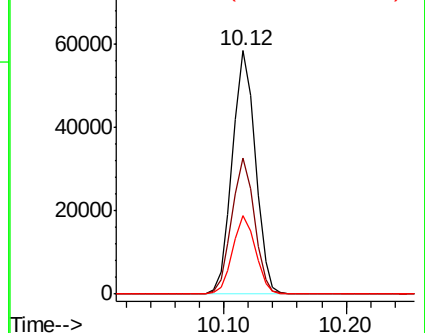
119 32.3 26.3 39.5

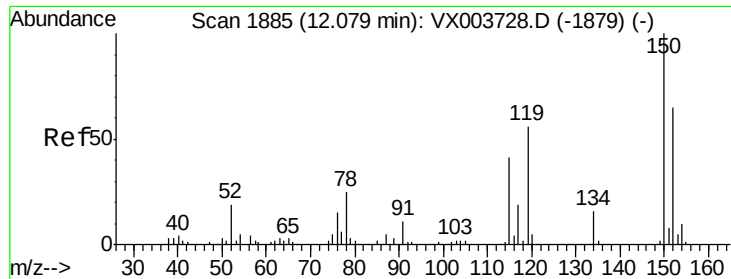


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

SB-3(9-11)

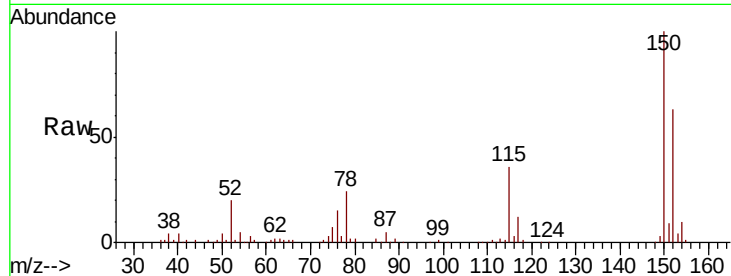
Tot Ion:152 Resp: 31112

Ion Ratio Lower Upper

152 100

115 54.9 38.5 115.3

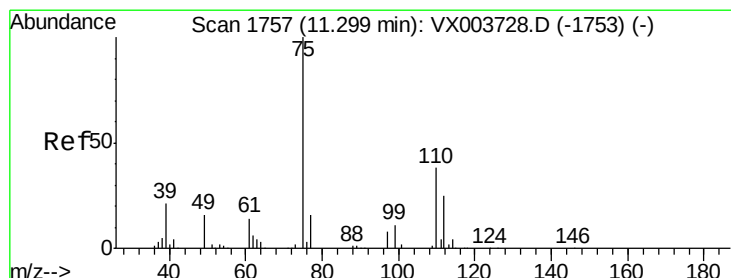
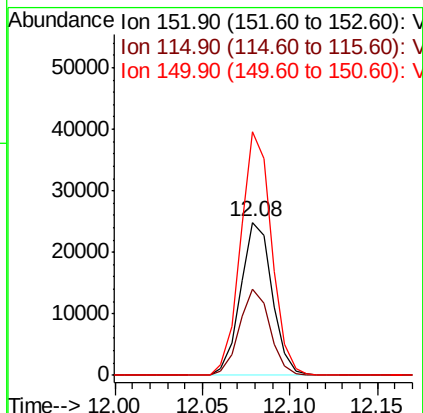
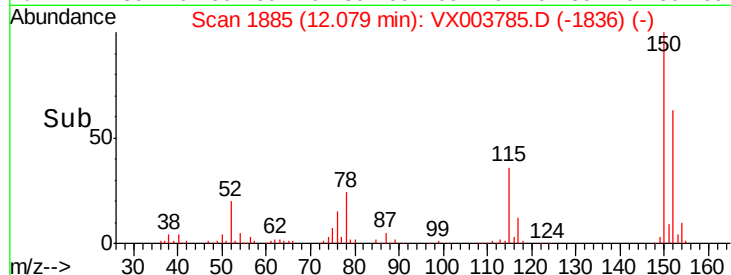
150 155.6 0.0 346.2



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: 29.16 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003785.D

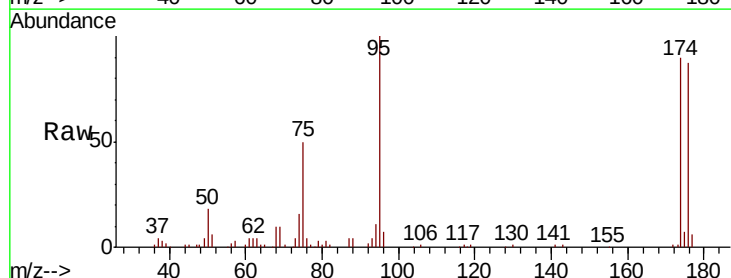
Acq: 01 Aug 2018 07:40

Tgt Ion: 75 Resp: 12505

Ion Ratio Lower Upper

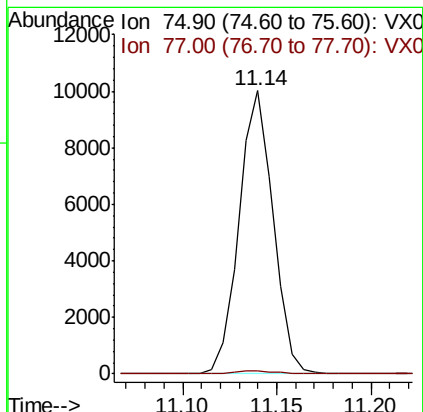
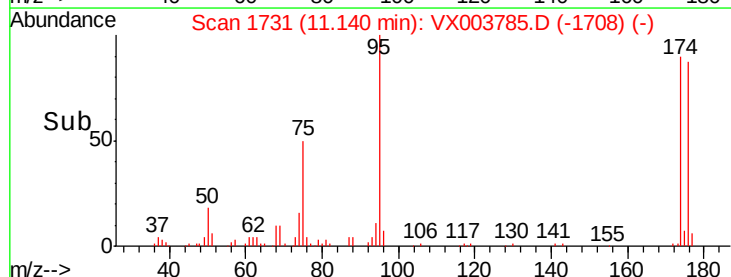
75 100

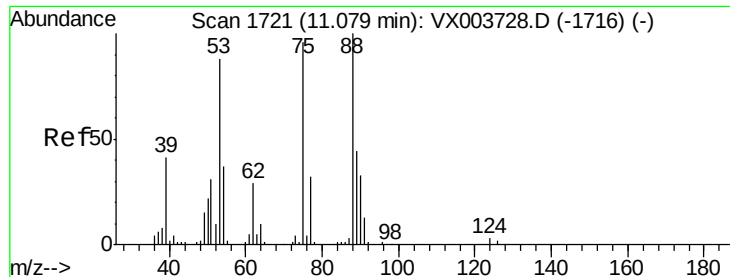
77 1.3 21.6 65.0#



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: 86.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

Instrument :

MSVOA_X

ClientSampled :

SB-3(9-11)

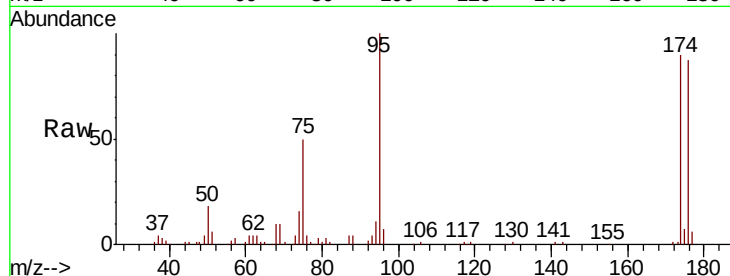
Tot Ion: 75 Resp: 12505

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

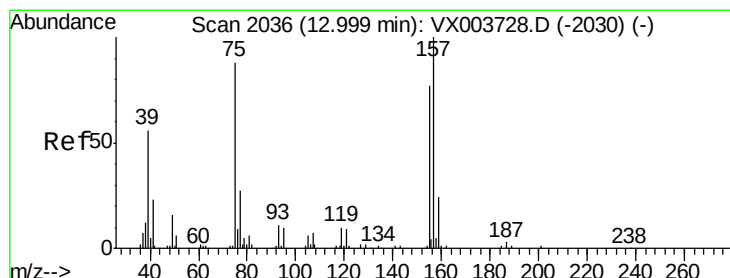
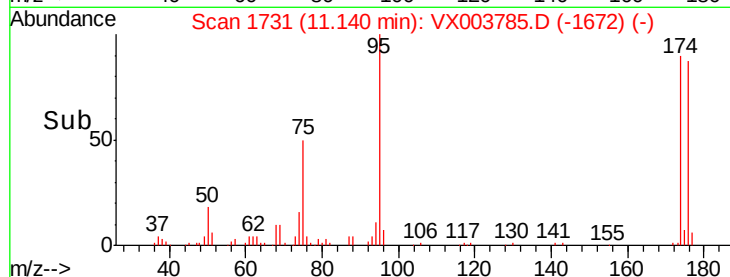
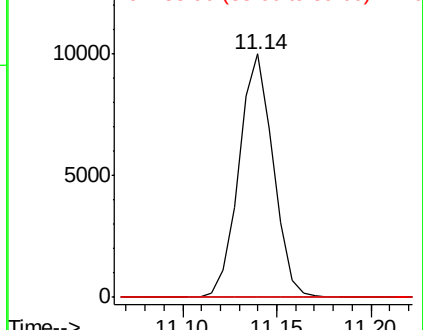
89 0.0 39.1 58.7#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.65 ug/l

RT: 12.82 min Scan# 2006

Delta R.T. -0.18 min

Lab File: VX003785.D

Acq: 01 Aug 2018 07:40

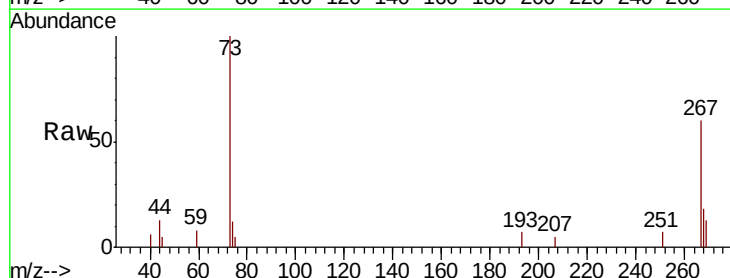
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.7#

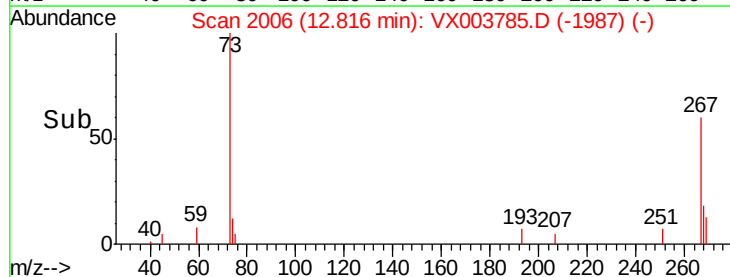
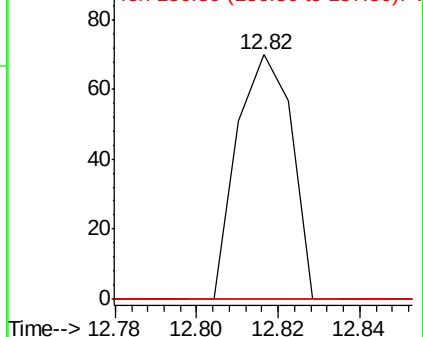
157 0.0 63.7 191.1#

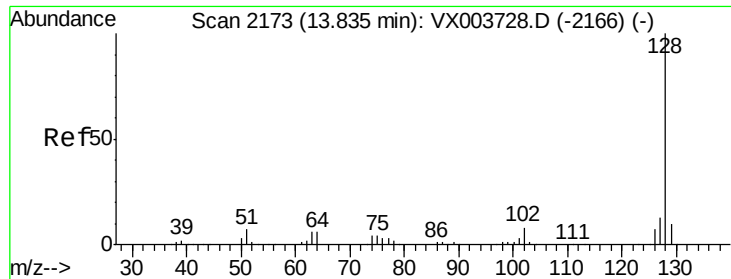


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

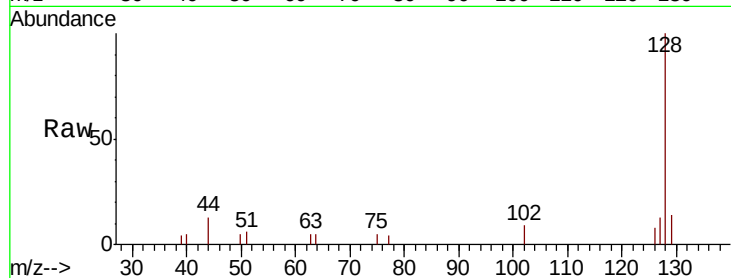




#95
Naphthalene
Concen: 1.13 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VX003785.D
Acq: 01 Aug 2018 07:40

Instrument :
MSVOA_X
ClientSampleId :
SB-3(9-11)

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	14.1	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

