

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092818\
 Data File : VX004845.D
 Acq On : 29 Sep 2018 02:45
 Operator : JC/MD
 Sample : J5134-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW505-2125

Quant Time: Sep 29 06:38:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	247566	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.86	114	377110	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	366342	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	201338	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	187879	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	
35) Dibromofluoromethane	5.51	113	164393	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
50) Toluene-d8	8.72	98	548856	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
62) 4-Bromofluorobenzene	11.14	95	199203	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	

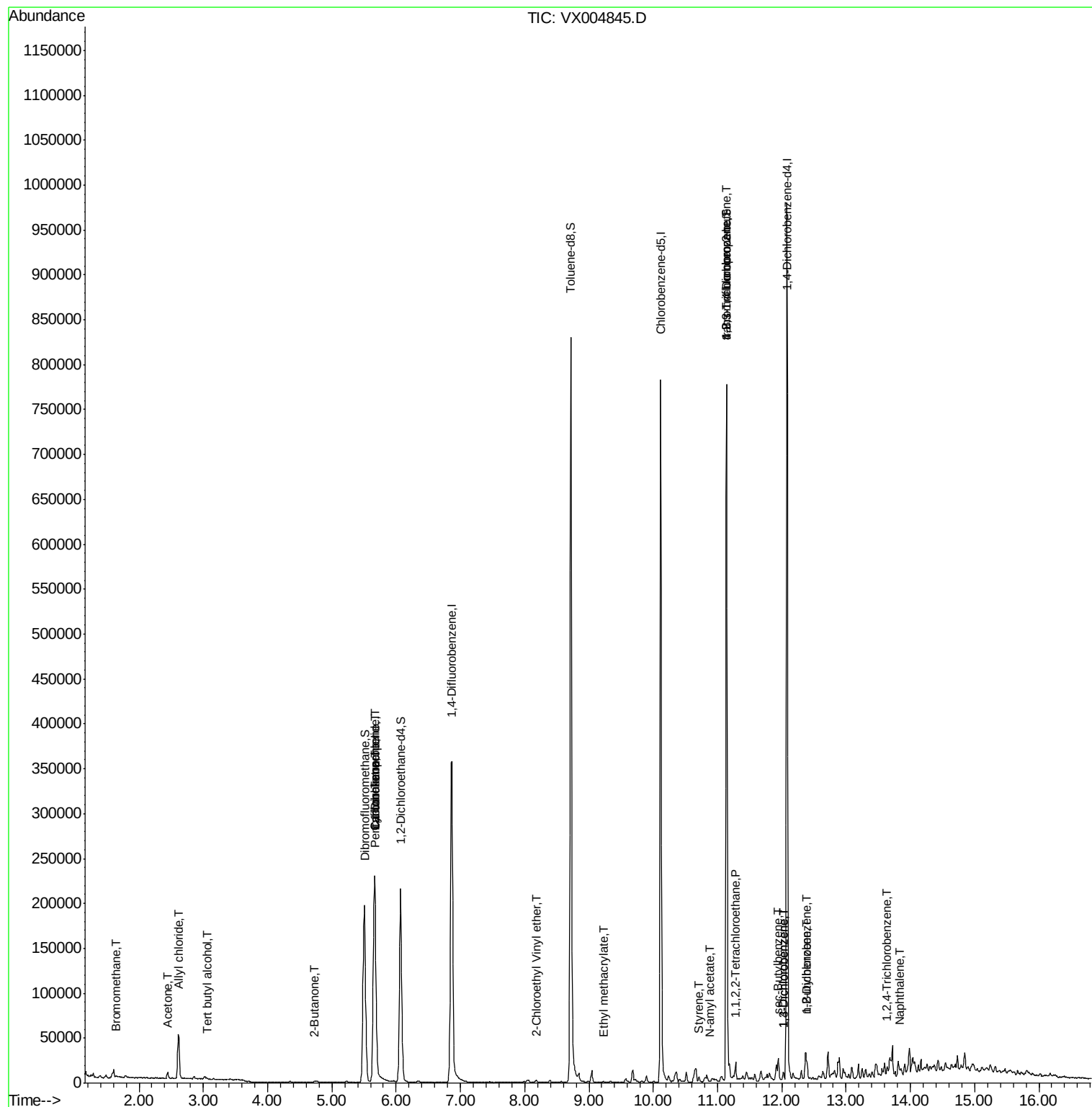
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	575	0.252	ug/l #	63
6) Chloroethane	1.73	64	510	Below Cal	#	44
11) Tert butyl alcohol	3.06	59	950	0.961	ug/l #	45
14) Allyl chloride	2.62	41	5075	0.867	ug/l #	67
16) Acetone	2.45	43	6763	3.276	ug/l	89
20) Methylene Chloride	2.86	84	767	Below Cal	#	89
25) 2-Butanone	4.72	43	927	0.305	ug/l #	47
31) Cyclohexane	5.67	56	4879	1.084	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17068	3.914	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21946	4.788	ug/l #	16
56) Ethyl methacrylate	9.23	69	278	2.911	ug/l #	86
58) 2-Chloroethyl Vinyl ether	8.18	63	23	14.250	ug/l #	45
70) Styrene	10.70	104	19	2.142	ug/l #	1
74) N-amyl acetate	10.87	43	53	1.755	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.27	83	1174	0.227	ug/l #	39
76) 1,2,3-Trichloropropane	11.14	75	98676	21.866	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	189	Below Cal	#	61
81) trans-1,4-Dichloro-2-buten	11.14	75	98676	59.254	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	474	Below Cal	#	64
85) sec-Butylbenzene	11.94	105	11432	0.898	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	2554	0.371	ug/l	88
88) 1,4-Dichlorobenzene	12.02	146	2554	0.359	ug/l	86
89) n-Butylbenzene	12.39	91	2479	0.237	ug/l #	68
91) 1,2-Dichlorobenzene	12.40	146	3896	0.542	ug/l	93
93) 1,2,4-Trichlorobenzene	13.65	180	1089	0.216	ug/l #	25
95) Naphthalene	13.83	128	1192	0.790	ug/l #	51

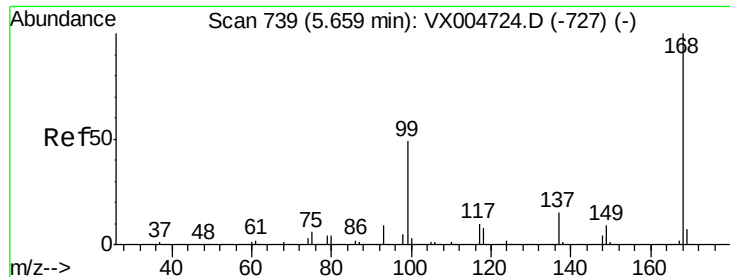
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 742

Delta R.T. 0.02 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

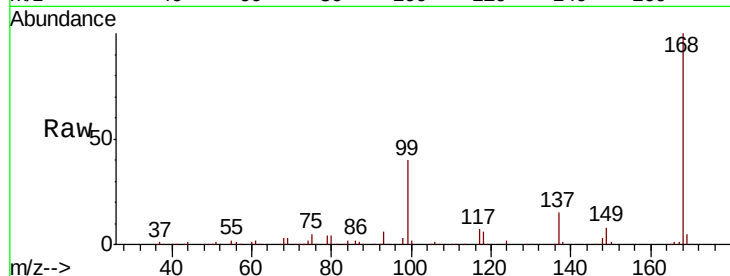
SA-TW505-2125

Tot Ion:168 Resp: 247566

Ion Ratio Lower Upper

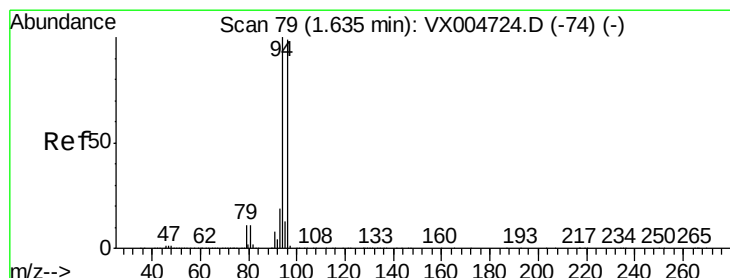
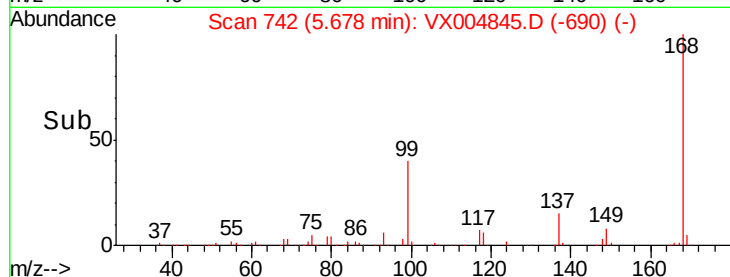
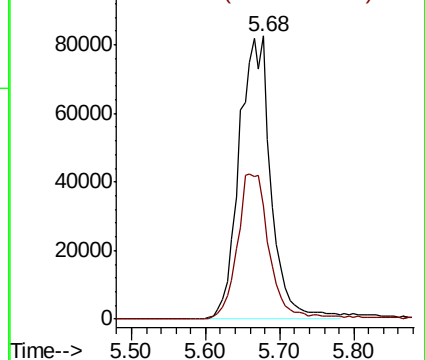
168 100

99 39.9 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.252 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004845.D

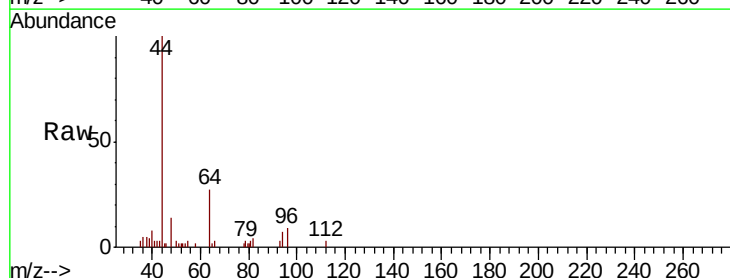
Acq: 29 Sep 2018 02:45

Tgt Ion: 94 Resp: 575

Ion Ratio Lower Upper

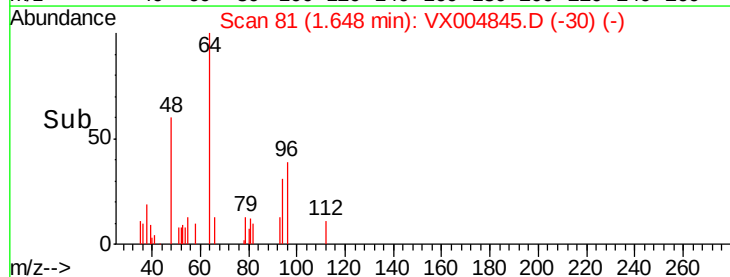
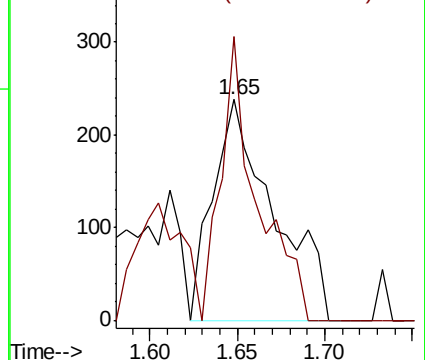
94 100

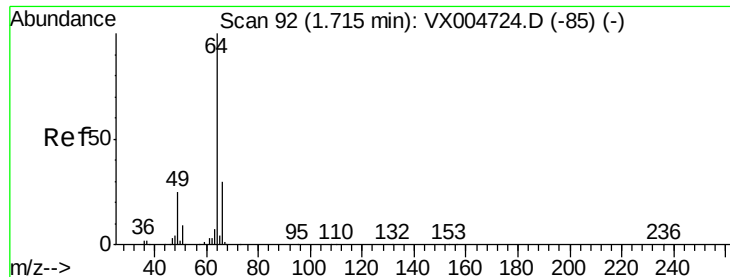
96 128.6 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

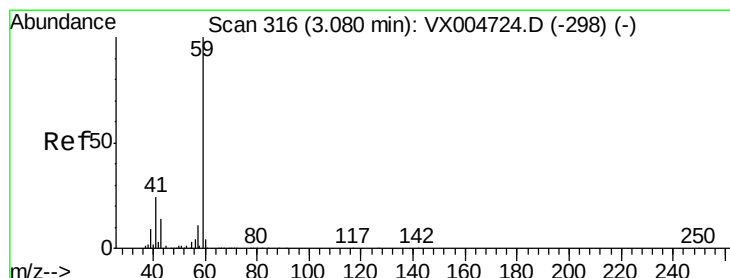
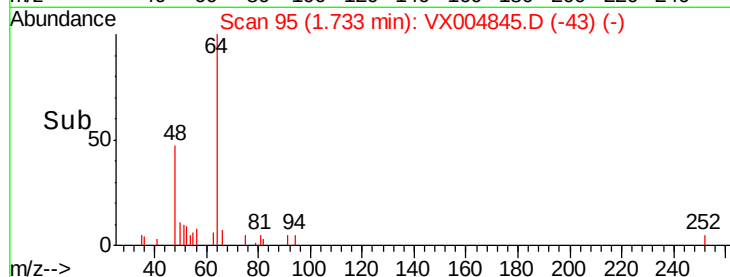
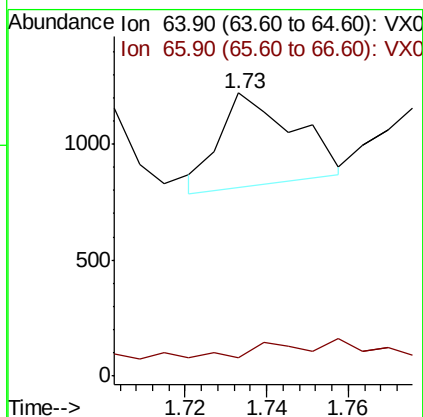
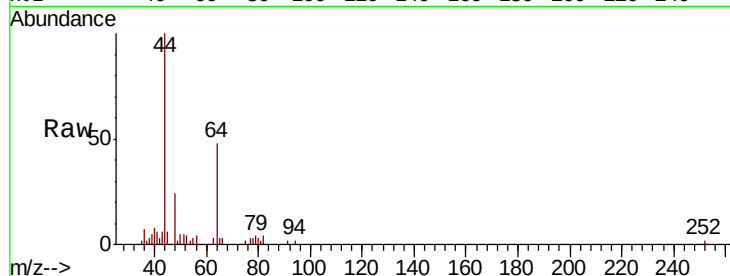
SA-TW505-2125

Tot Ion: 64 Resp: 510

Ion Ratio Lower Upper

64 100

66 0.3 24.6 36.8#



#11

Tert butyl alcohol

Concen: 0.961 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX004845.D

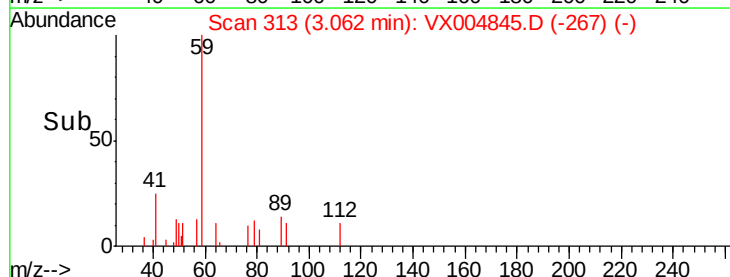
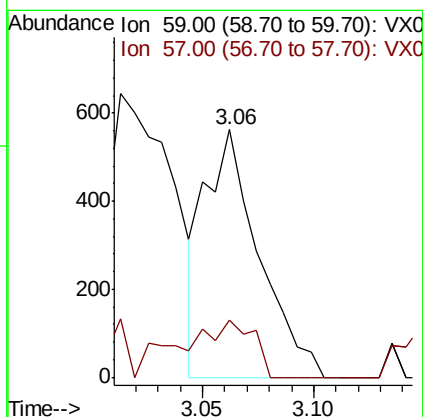
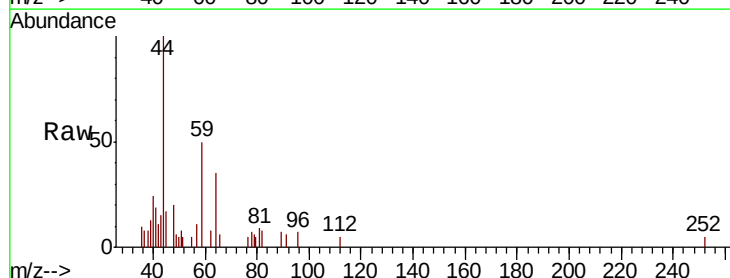
Acq: 29 Sep 2018 02:45

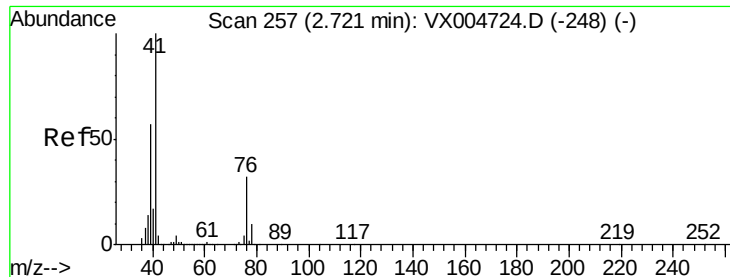
Tgt Ion: 59 Resp: 950

Ion Ratio Lower Upper

59 100

57 30.8 8.2 12.4#

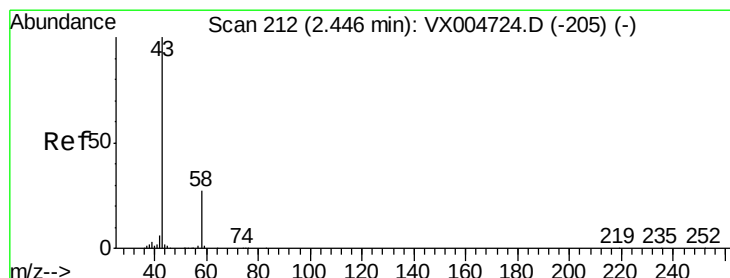
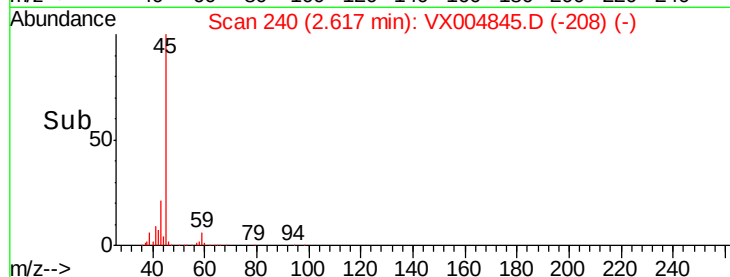
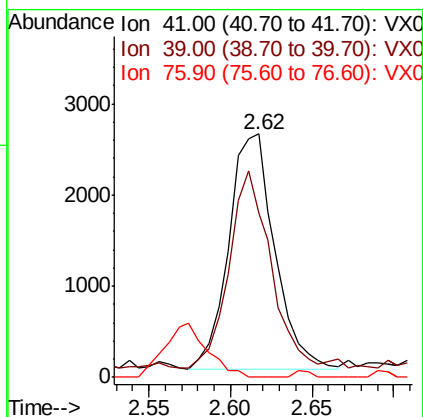
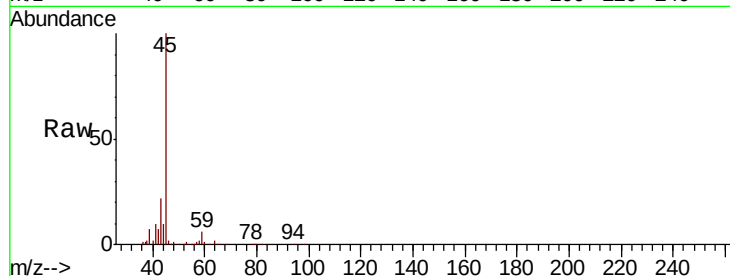




#14
Allvl chloride
Concen: 0.867 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.10 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

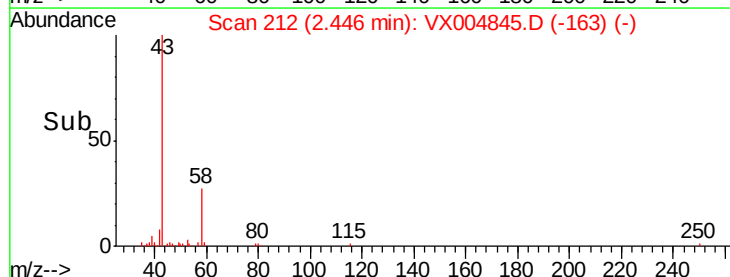
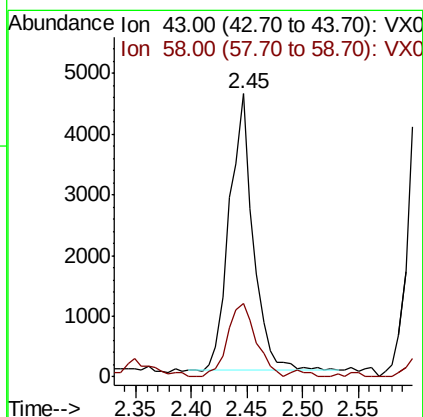
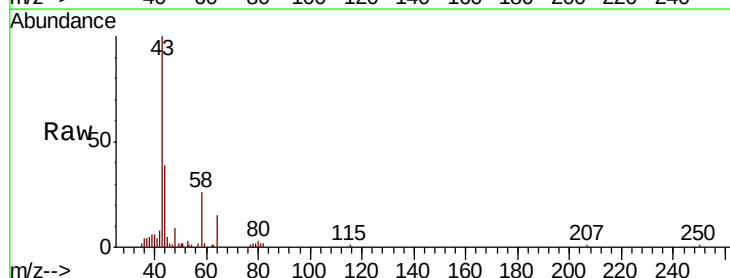
Instrument :
MSVOA_X
ClientSampleId :
SA-TW505-2125

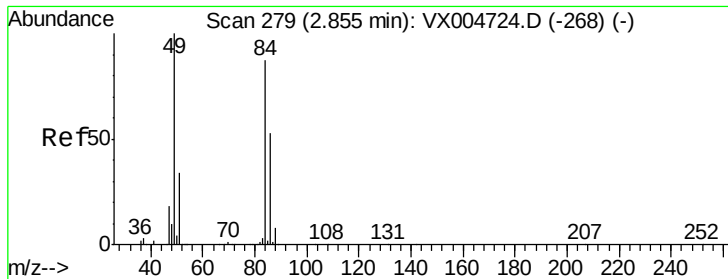
Tot Ion	Ratio	Lower	Upper
41	100		
39	75.0	48.9	73.3#
76	0.0	26.7	40.1#



#16
Acetone
Concen: 3.276 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.5	26.2	39.4

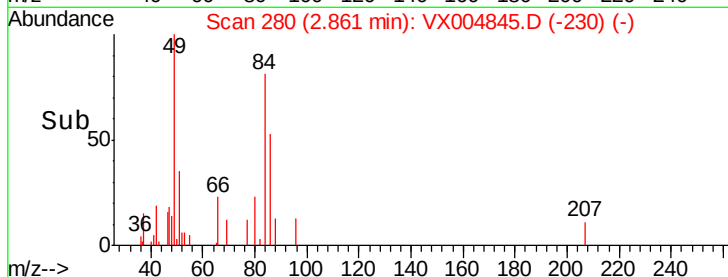
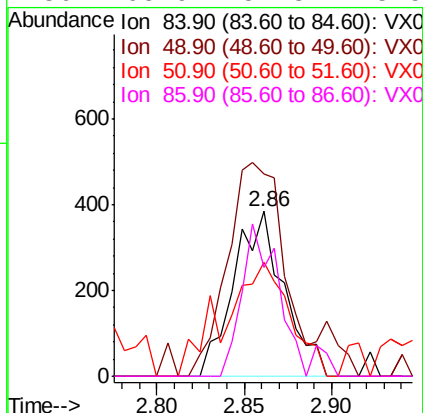
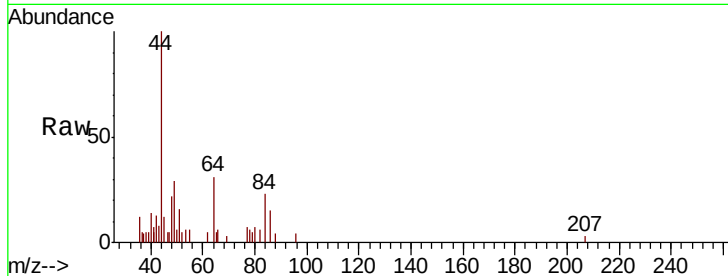




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

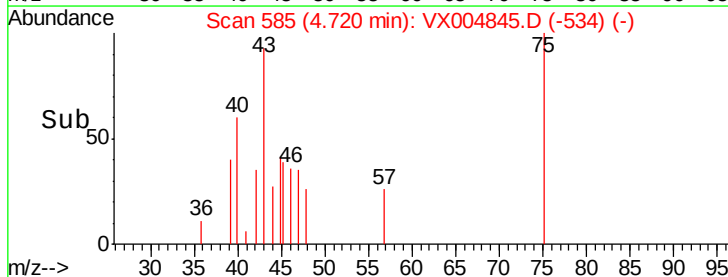
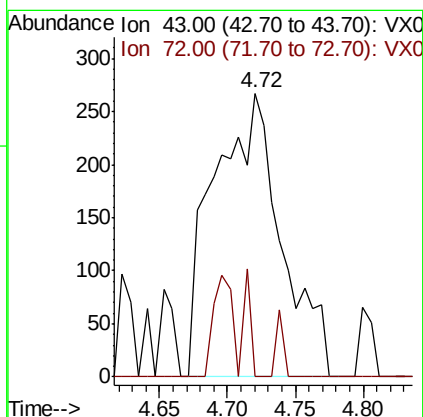
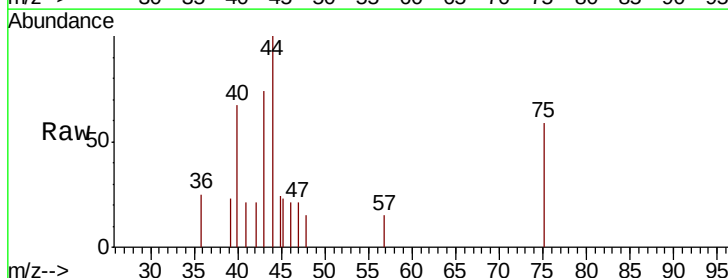
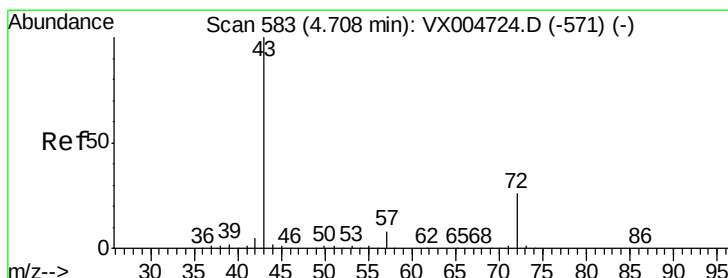
Instrument :
MSVOA_X
ClientSampleId :
SA-TW505-2125

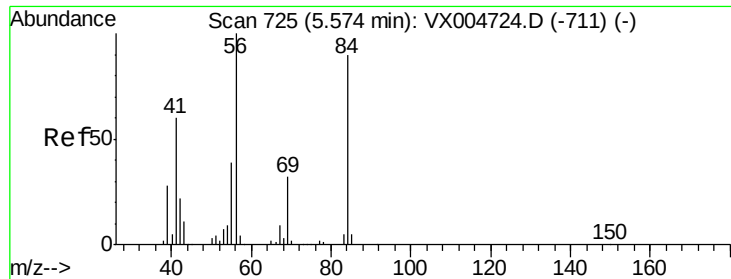
Tot Ion:	84	Resp:	767
Ion	Ratio	Lower	Upper
84	100		
49	123.2	101.2	151.8
51	69.3	29.5	44.3#
86	65.9	52.3	78.5



#25
2-Butanone
Concen: 0.305 ug/l
RT: 4.72 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Tgt Ion:	43	Resp:	927
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.0	33.0#

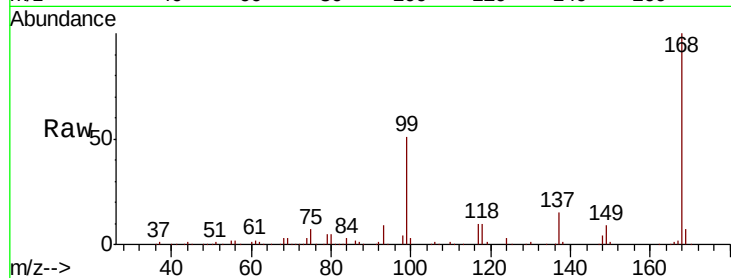




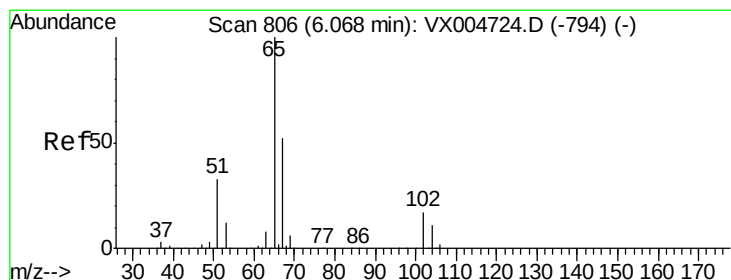
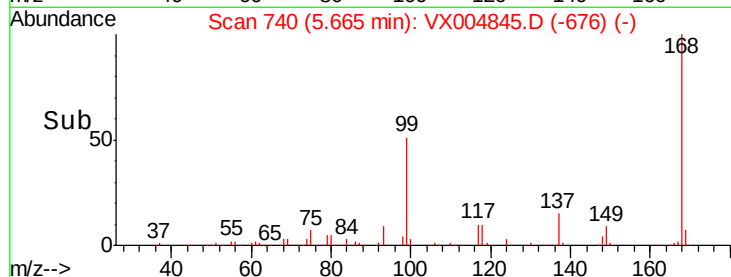
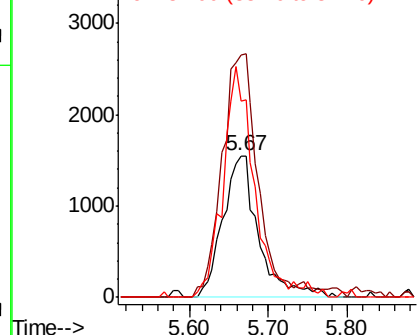
#31
Cyclohexane
Concen: 1.084 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Instrument :
MSVOA_X
ClientSampleId :
SA-TW505-2125

Tot Ion: 56 Resp: 4879
Ion Ratio Lower Upper
56 100
69 170.7 25.4 38.2#
84 138.3 71.4 107.2#

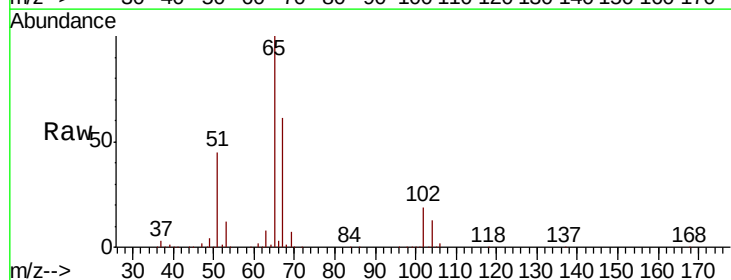


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

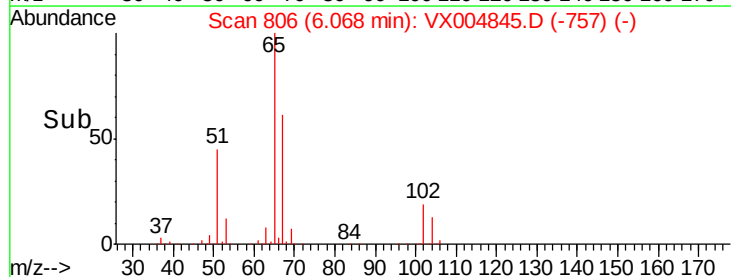
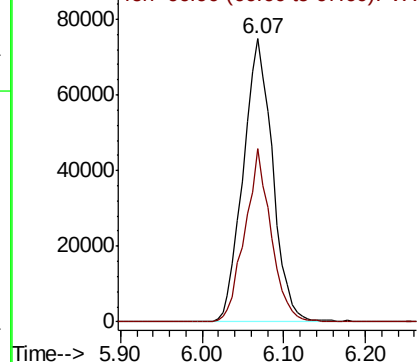


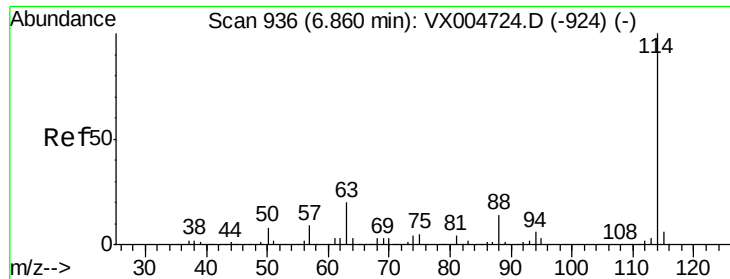
#33
1,2-Dichloroethane-d4
Concen: 53.126 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Tgt Ion: 65 Resp: 187879
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.8



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

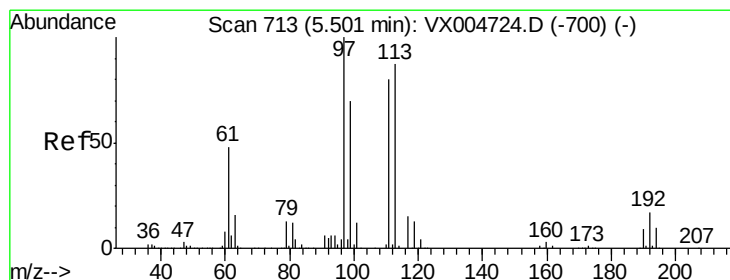
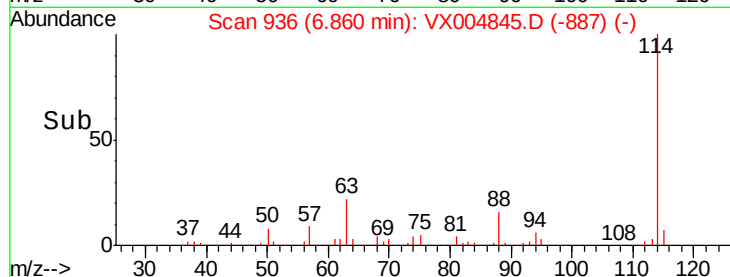
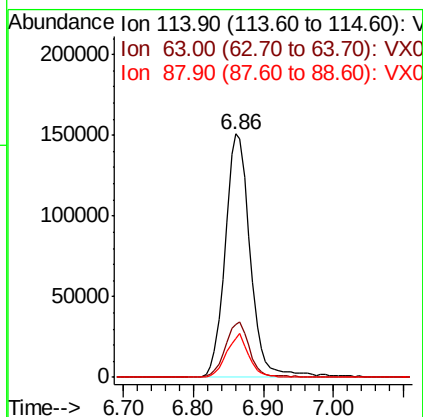
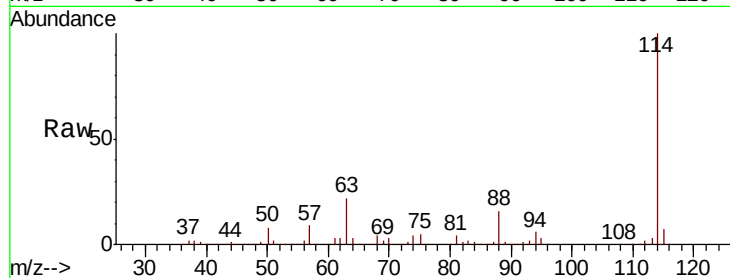




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004845.D
 Acq: 29 Sep 2018 02:45

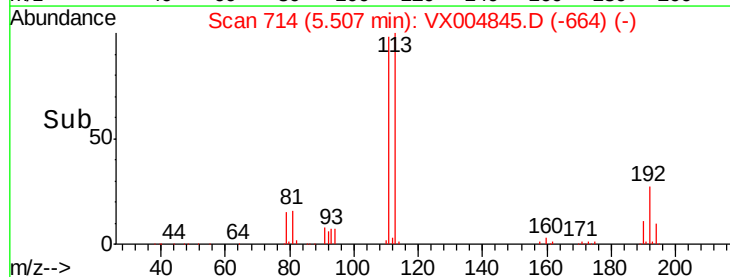
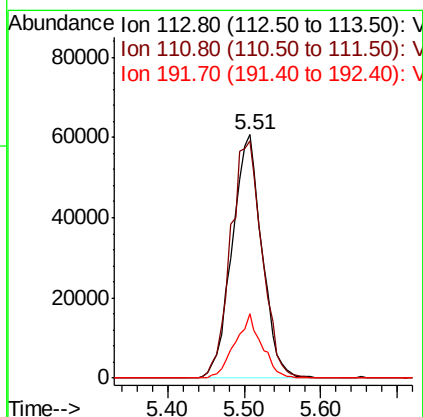
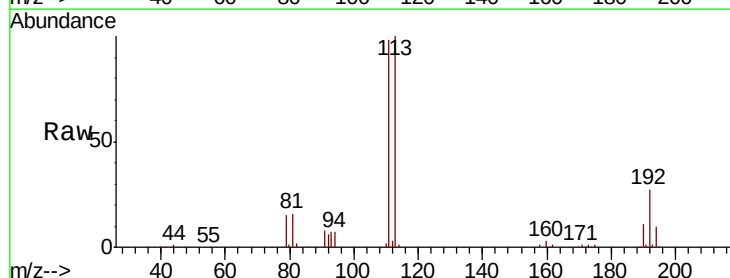
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 MSVOA_X
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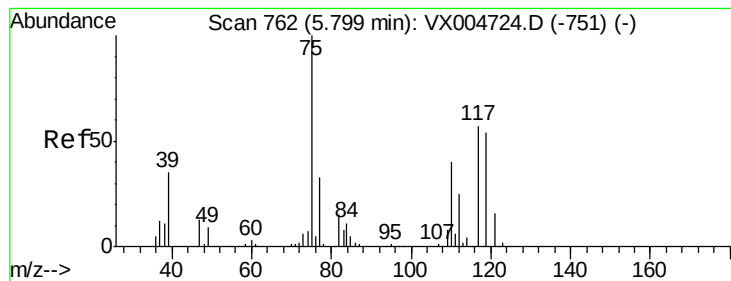
Tot Ion:114 Resp: 377110
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 39.0
 88 15.7 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 51.436 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004845.D
 Acq: 29 Sep 2018 02:45

Tgt Ion:113 Resp: 164393
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.4 123.6
 192 23.6 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.914 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

SA-TW505-2125

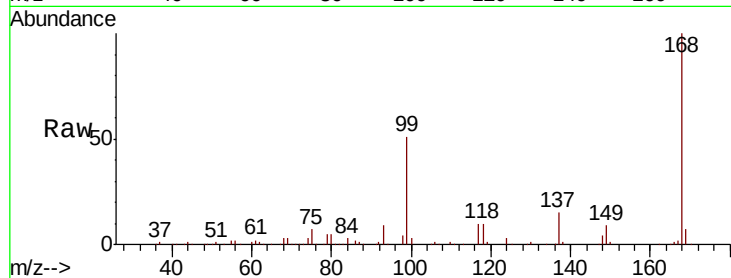
Tot Ion: 75 Resp: 17068

Ion Ratio Lower Upper

75 100

110 10.4 18.0 54.0#

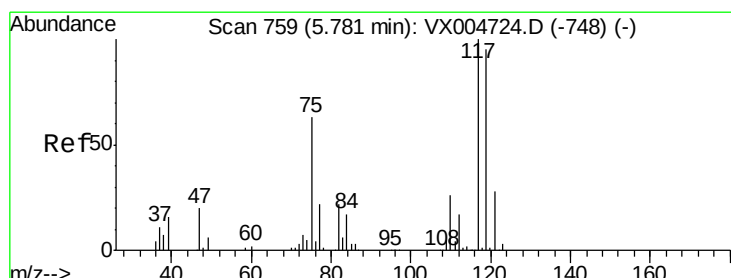
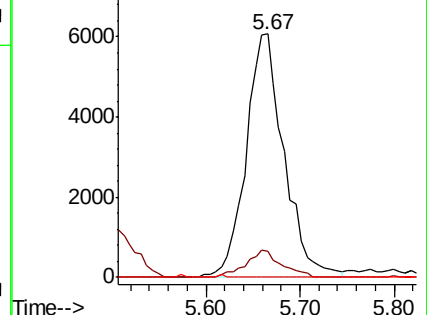
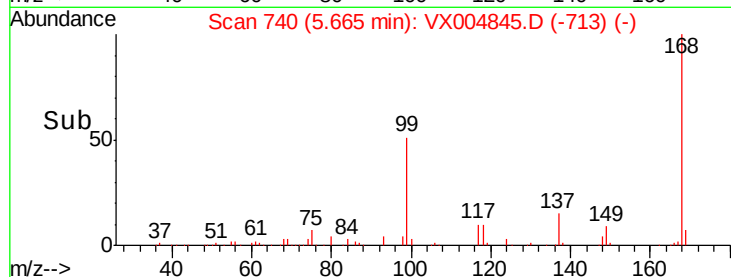
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.788 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

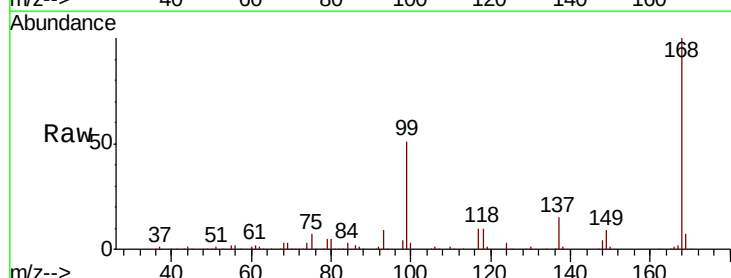
Tgt Ion: 117 Resp: 21946

Ion Ratio Lower Upper

117 100

119 7.2 78.8 118.2#

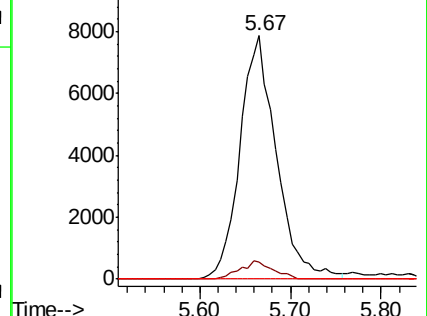
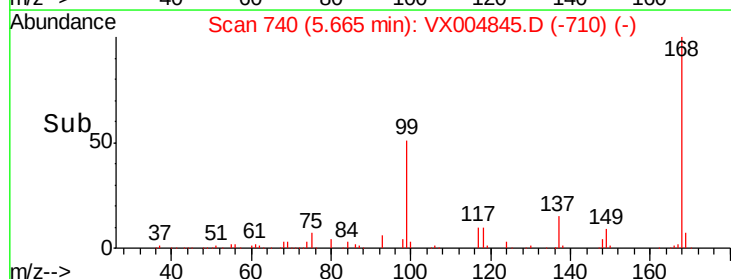
121 0.0 24.9 37.3#

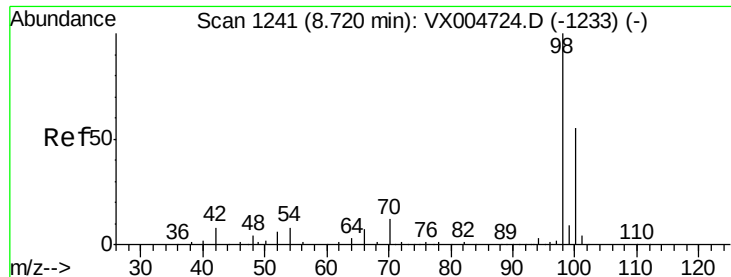


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

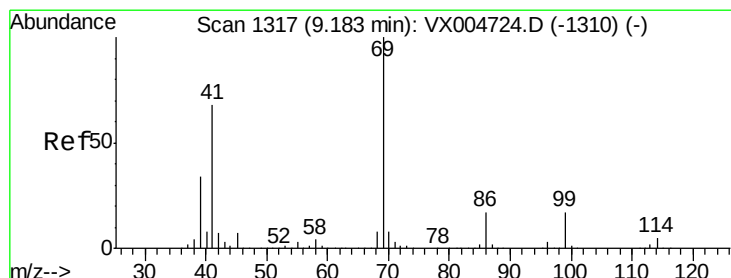
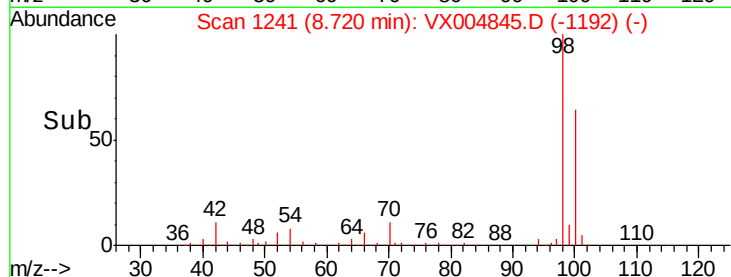
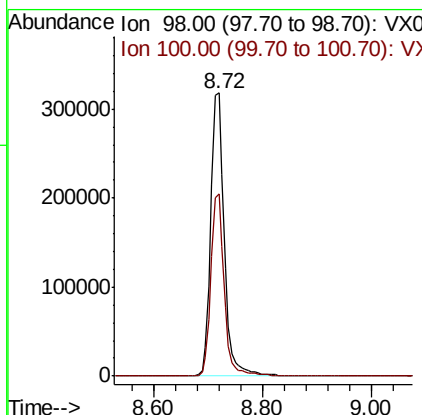
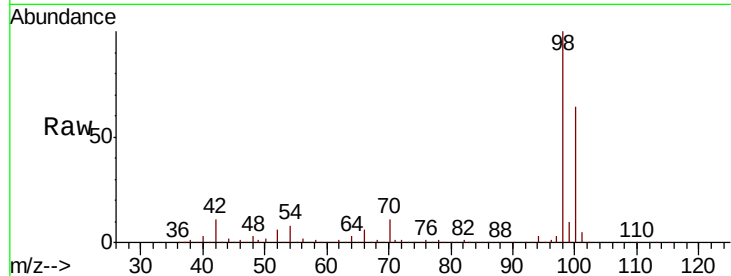




#50
Toluene-d8
Concen: 51.656 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

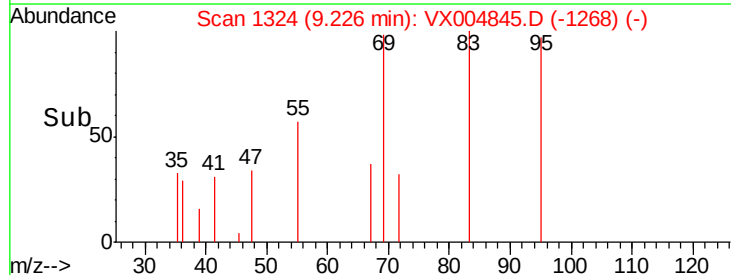
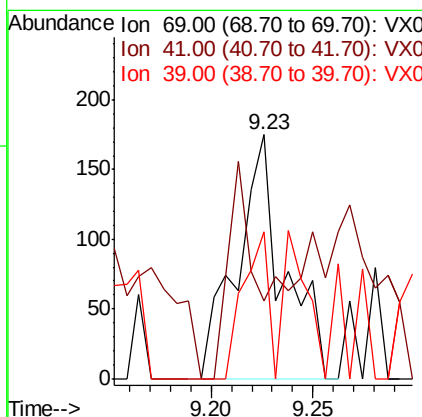
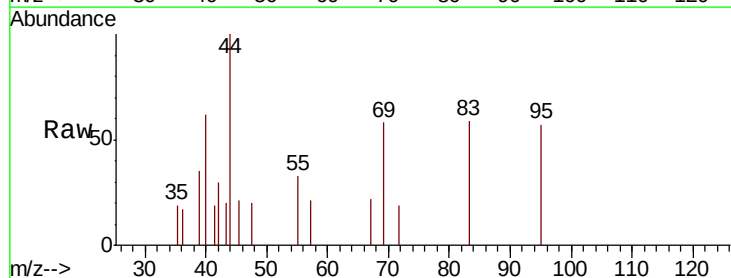
Instrument :
MSVOA_X
ClientSampleId :
SA-TW505-2125

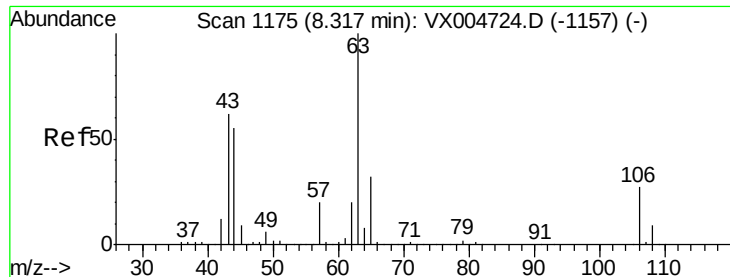
Tot Ion: 98 Resp: 548856
Ion Ratio Lower Upper
98 100
100 63.4 52.9 79.3



#56
Ethyl methacrylate
Concen: 2.911 ug/l
RT: 9.23 min Scan# 1324
Delta R.T. 0.04 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Tgt Ion: 69 Resp: 278
Ion Ratio Lower Upper
69 100
41 47.5 51.0 76.4#
39 32.0 26.1 39.1

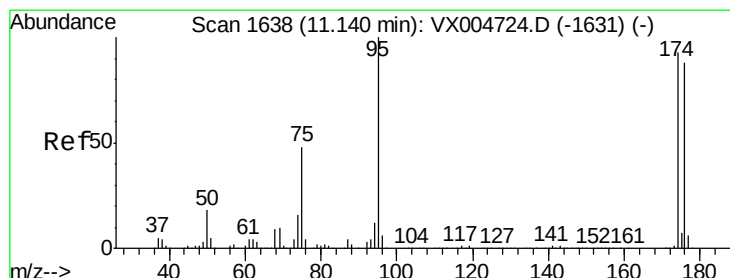
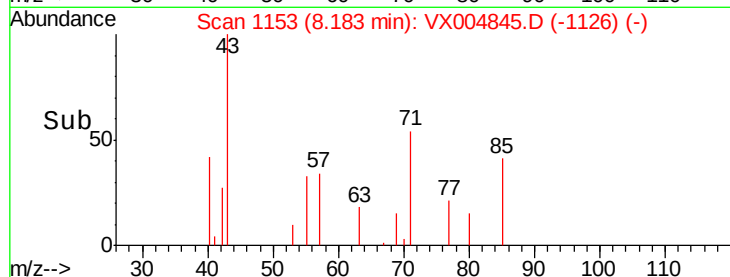
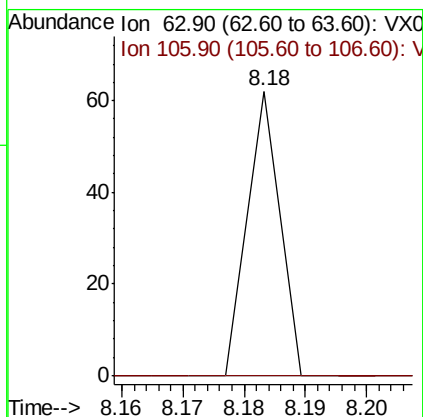
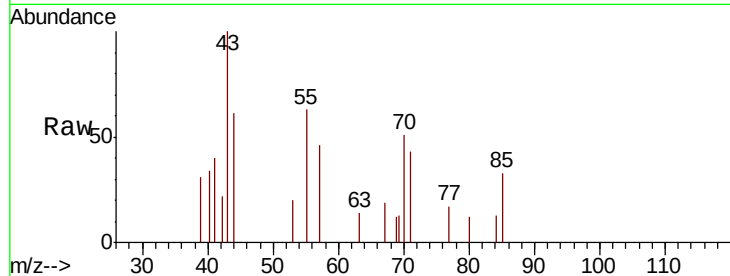




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.250 ug/l
 RT: 8.18 min Scan# 1153
 Delta R.T. -0.13 min
 Lab File: VX004845.D
 Acq: 29 Sep 2018 02:45

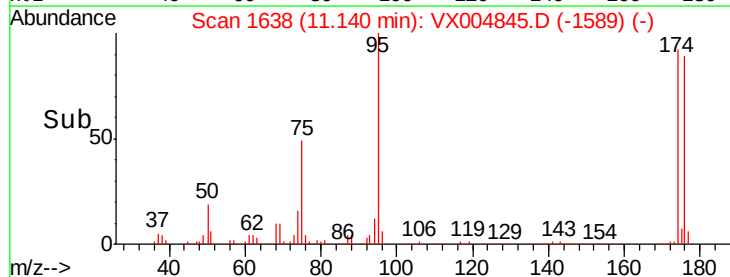
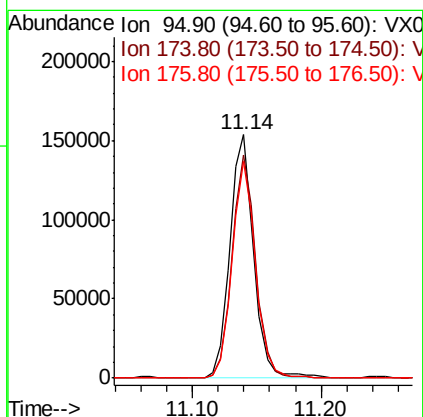
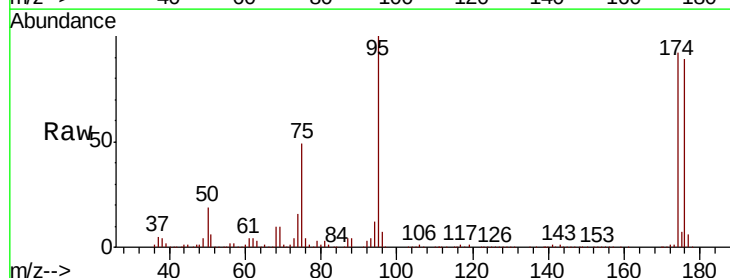
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW505-2125

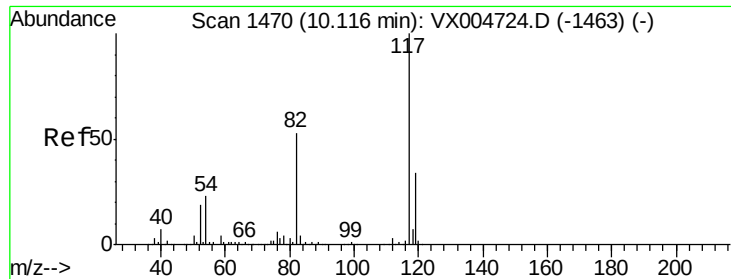
Tot Ion: 63 Resp: 23
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#



#62
 4-Bromofluorobenzene
 Concen: 52.041 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: VX004845.D
 Acq: 29 Sep 2018 02:45

Tgt Ion: 95 Resp: 199203
 Ion Ratio Lower Upper
 95 100
 174 91.0 0.0 185.2
 176 87.6 0.0 178.6

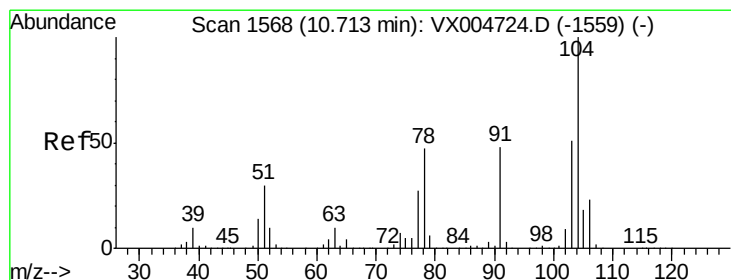
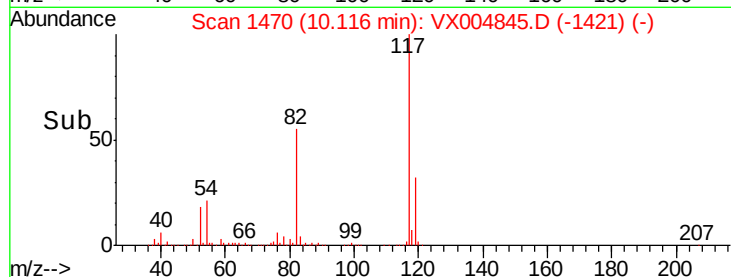
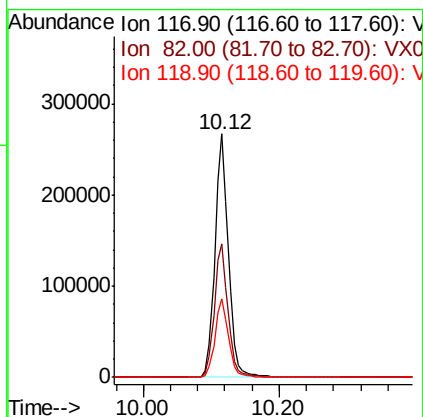
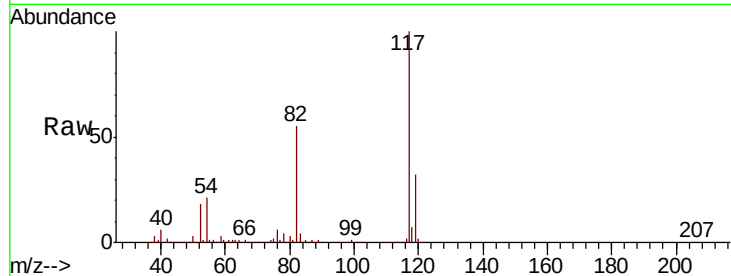




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

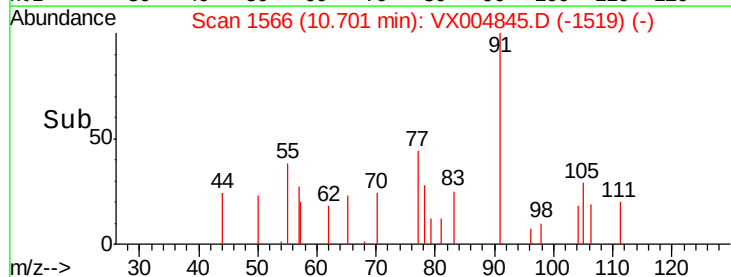
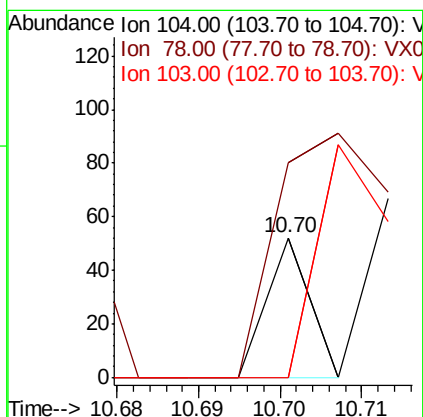
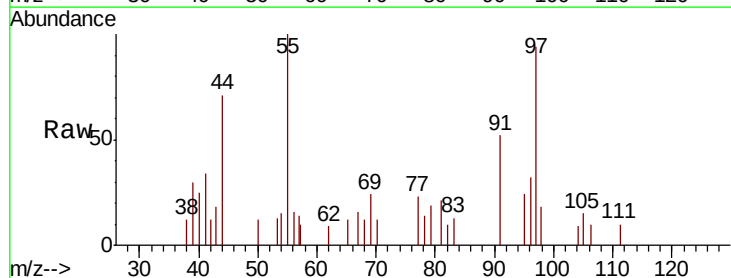
Instrument :
MSVOA_X
ClientSampled :
SA-TW505-2125

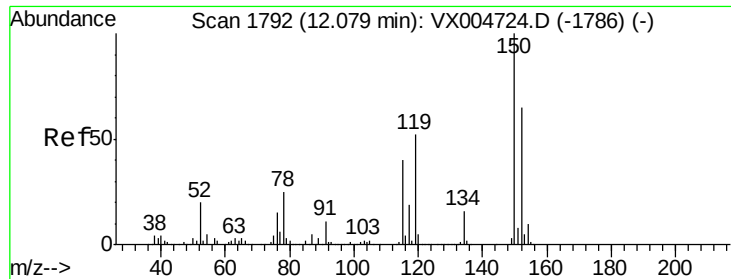
Tot Ion:117 Resp: 366342
Ion Ratio Lower Upper
117 100
82 54.6 47.8 71.6
119 32.0 29.3 43.9



#70
Styrene
Concen: 2.142 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Tgt Ion:104 Resp: 19
Ion Ratio Lower Upper
104 100
78 463.2 37.4 56.0#
103 278.9 43.8 65.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

SA-TW505-2125

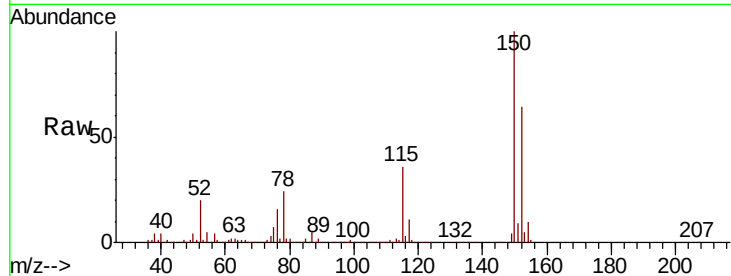
Tot Ion:152 Resp: 201338

Ion Ratio Lower Upper

152 100

115 55.9 39.0 117.0

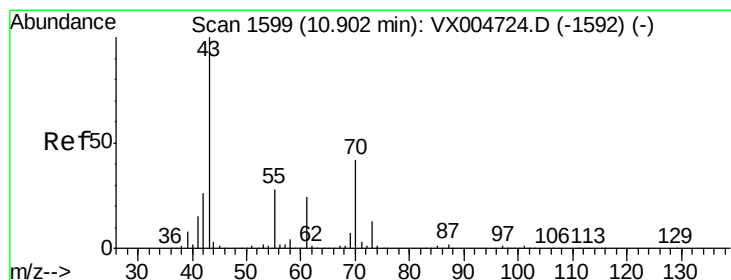
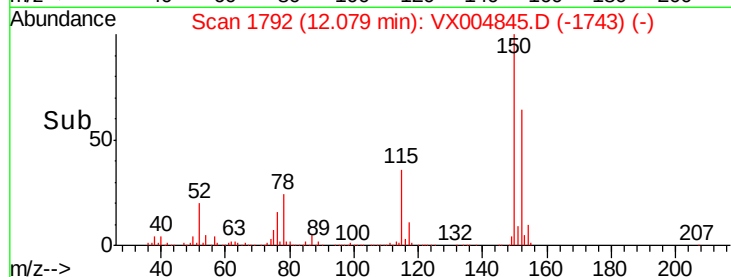
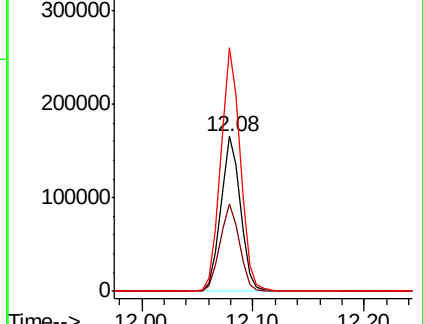
150 156.8 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.755 ug/l

RT: 10.87 min Scan# 1594

Delta R.T. -0.03 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Tgt Ion: 43 Resp: 53

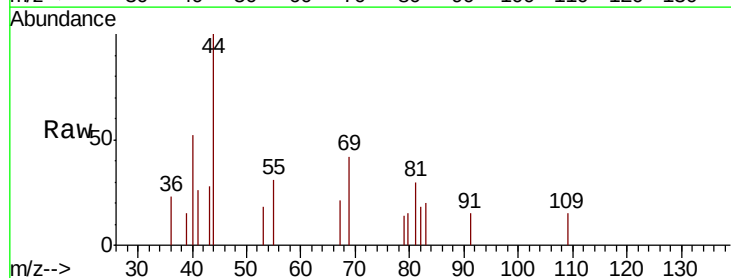
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 209.4 21.8 32.8#

61 0.0 20.6 30.8#

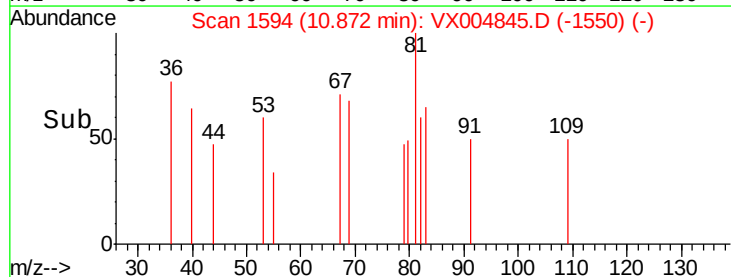
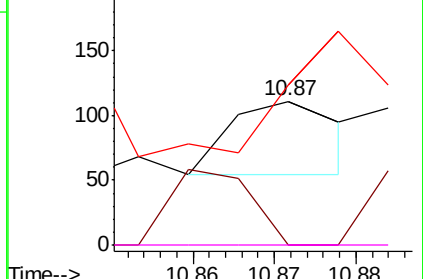


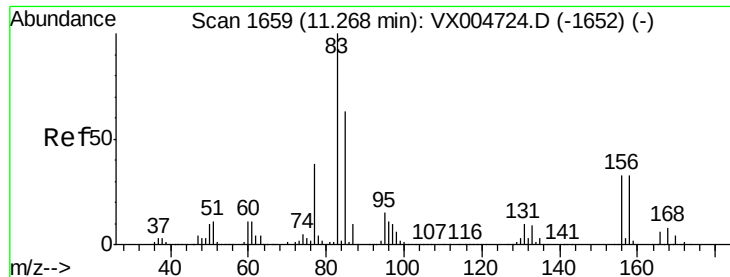
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 0.227 ug/l

RT: 11.27 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

SA-TW505-2125

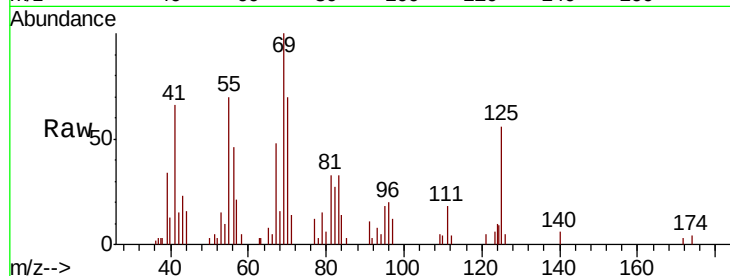
Tot Ion: 83 Resp: 1174

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

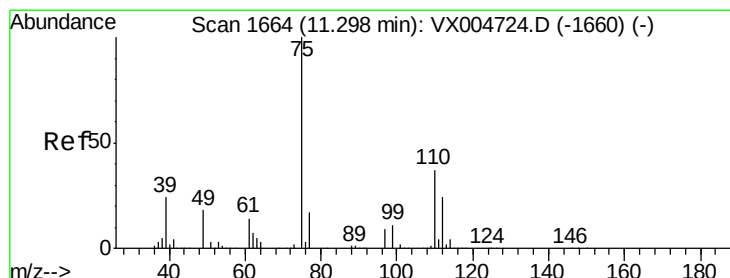
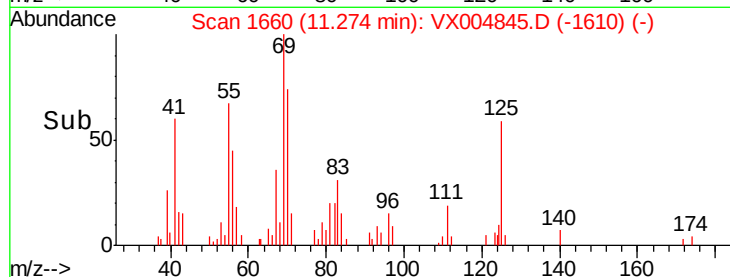
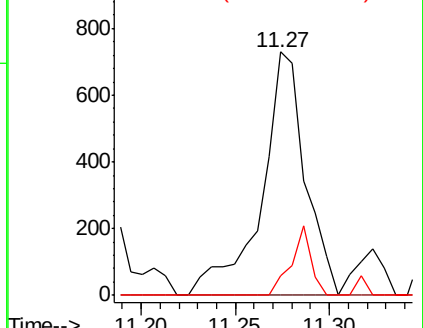
85 12.8 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.866 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004845.D

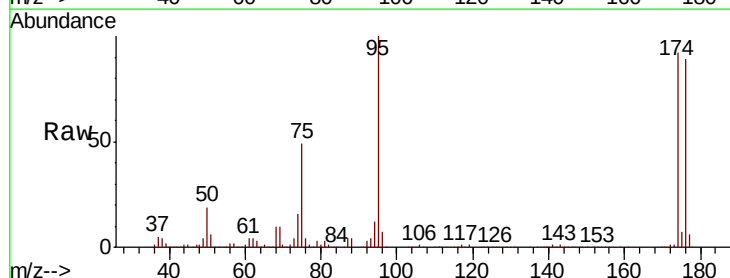
Acq: 29 Sep 2018 02:45

Tgt Ion: 75 Resp: 98676

Ion Ratio Lower Upper

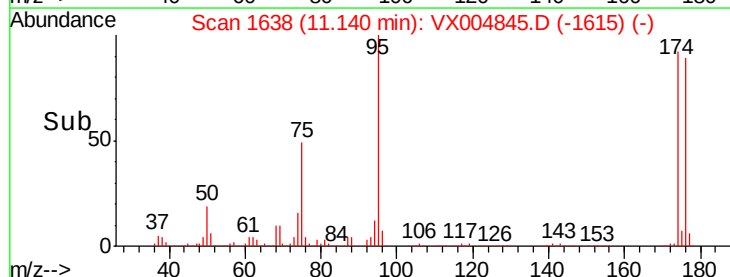
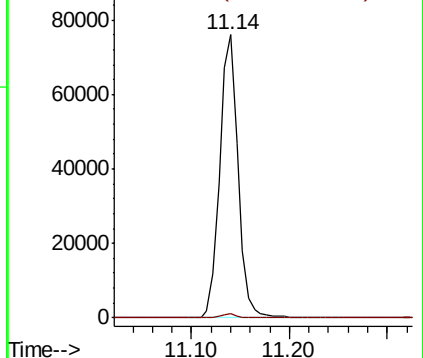
75 100

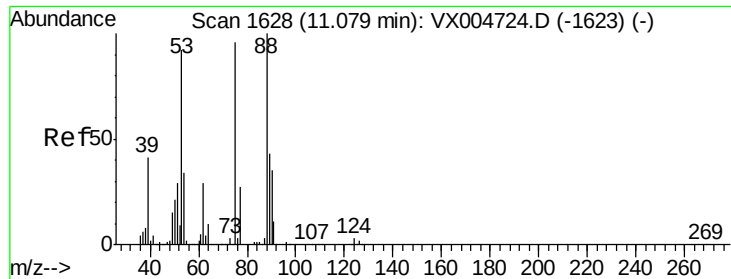
77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

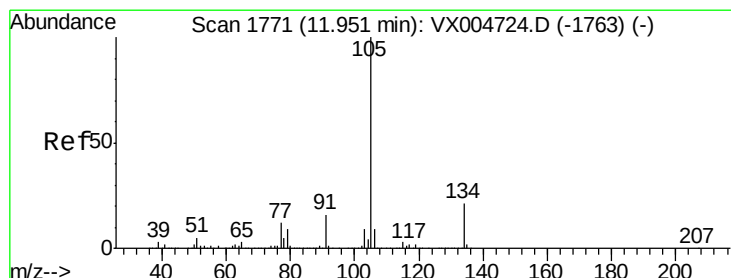
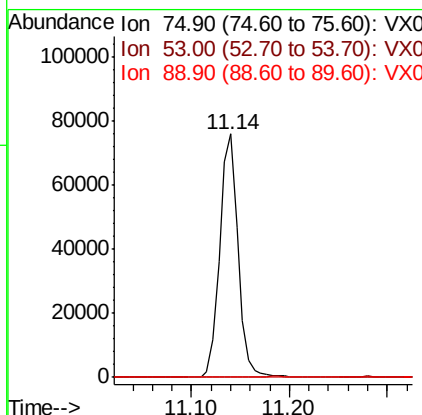
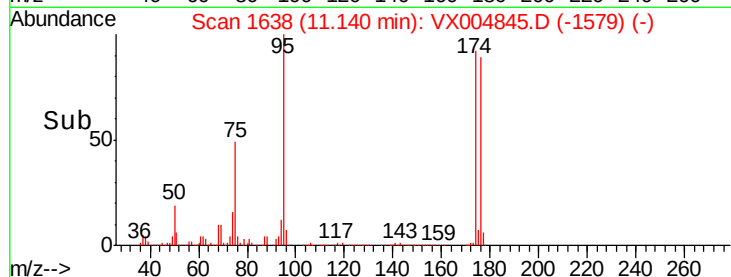
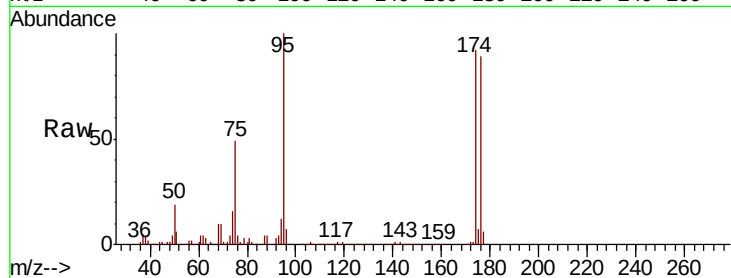




#81
trans-1,4-Dichloro-2-butene
Concen: 59.254 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

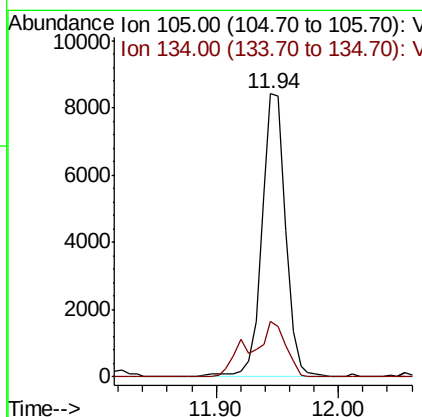
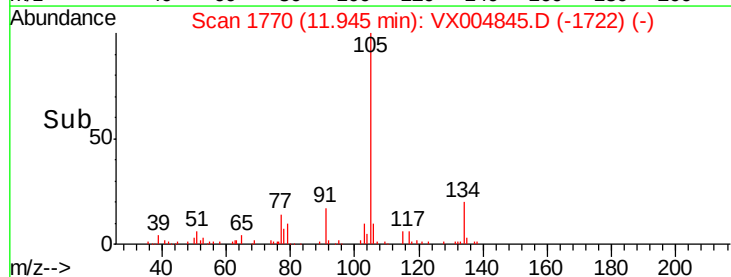
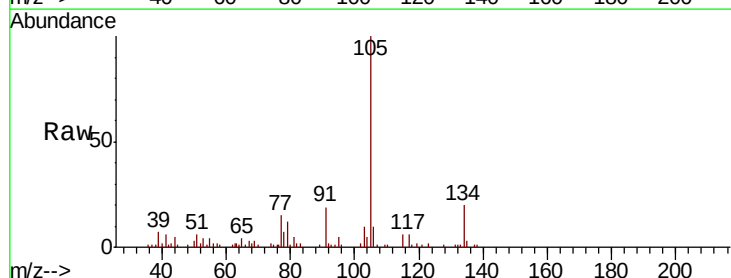
Instrument :
MSVOA_X
ClientSampleId :
SA-TW505-2125

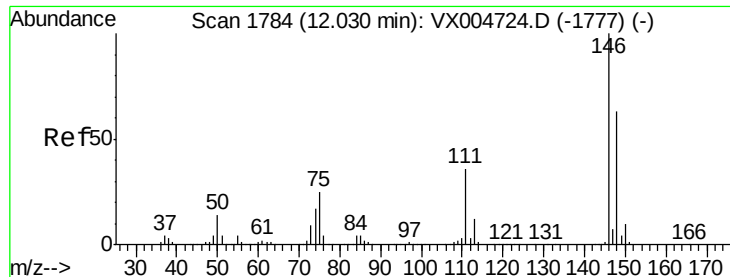
Tot Ion: 75 Resp: 98676
Ion Ratio Lower Upper
75 100
53 0.2 80.1 120.1#
89 0.0 37.2 55.8#



#85
sec-Butylbenzene
Concen: 0.898 ug/l
RT: 11.94 min Scan# 1770
Delta R.T. -0.01 min
Lab File: VX004845.D
Acq: 29 Sep 2018 02:45

Tgt Ion:105 Resp: 11432
Ion Ratio Lower Upper
105 100
134 20.4 10.5 31.5





#87

1,3-Dichlorobenzene

Concen: 0.371 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.01 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

SA-TW505-2125

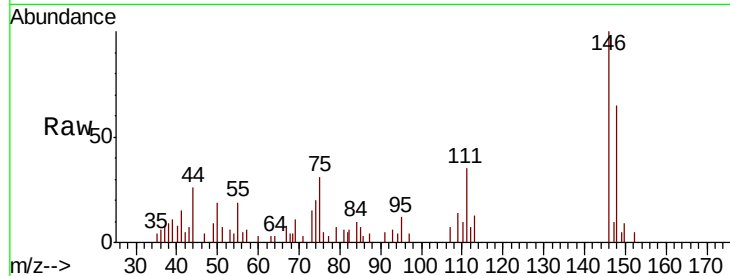
Tot Ion:146 Resp: 2554

Ion Ratio Lower Upper

146 100

111 45.9 18.7 56.1

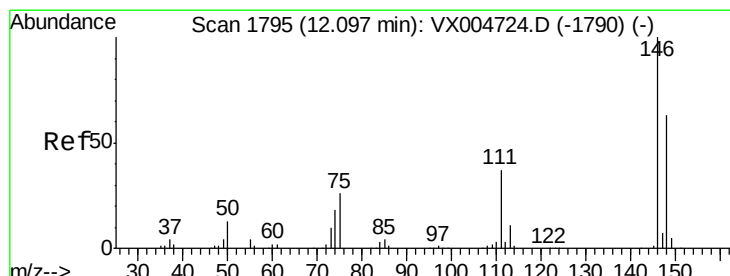
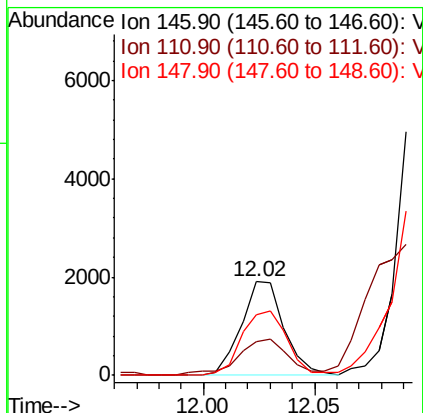
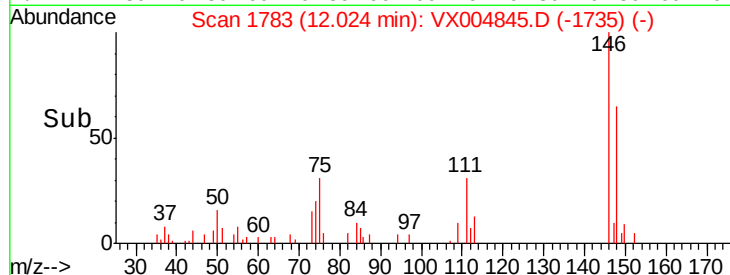
148 73.2 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.359 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

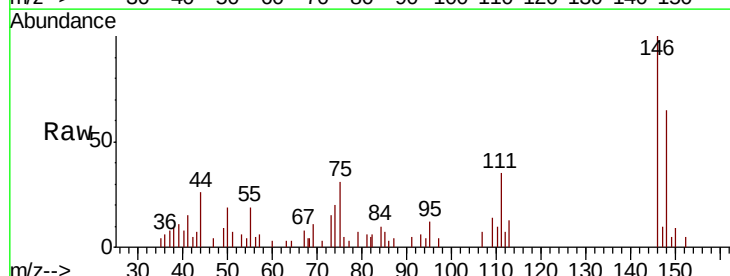
Tgt Ion:146 Resp: 2554

Ion Ratio Lower Upper

146 100

111 45.9 18.1 54.1

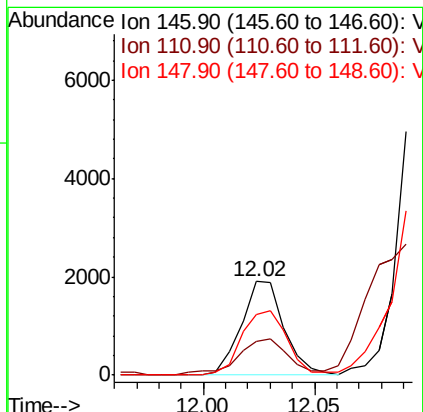
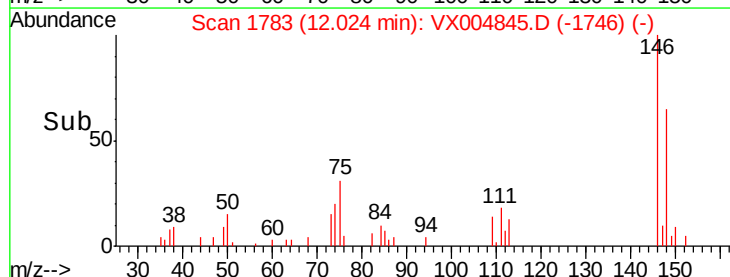
148 73.2 32.0 96.0

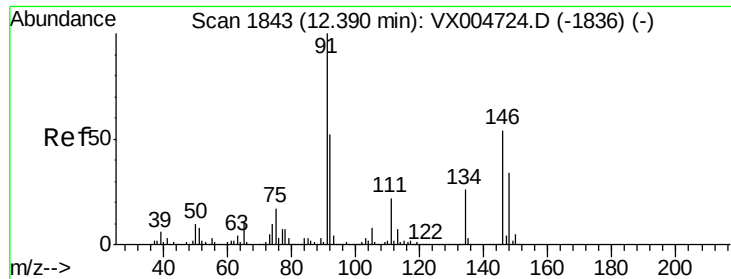


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.237 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampled :

SA-TW505-2125

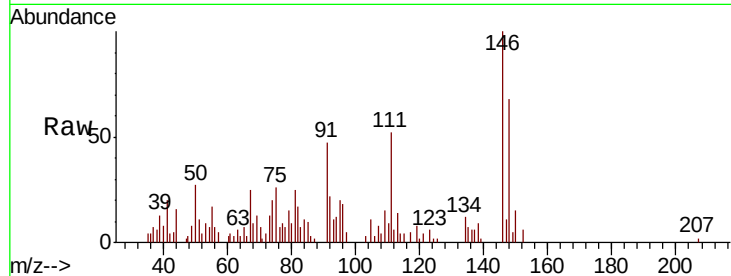
Tot Ion: 91 Resp: 2479

Ion Ratio Lower Upper

91 100

92 34.6 27.3 81.9

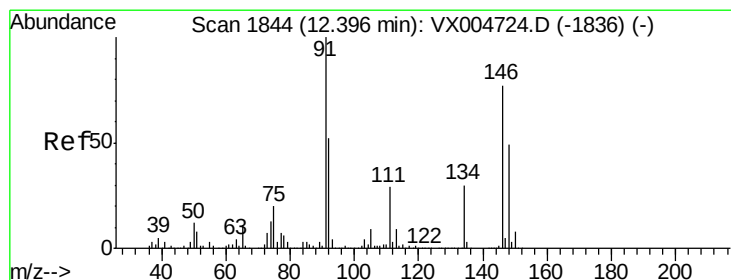
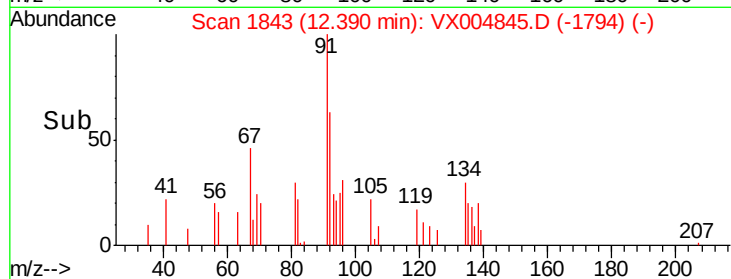
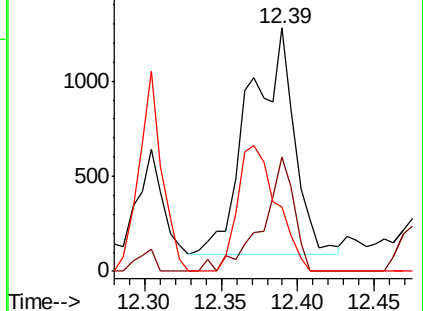
134 47.4 13.6 40.7#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V



#91

1,2-Dichlorobenzene

Concen: 0.542 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

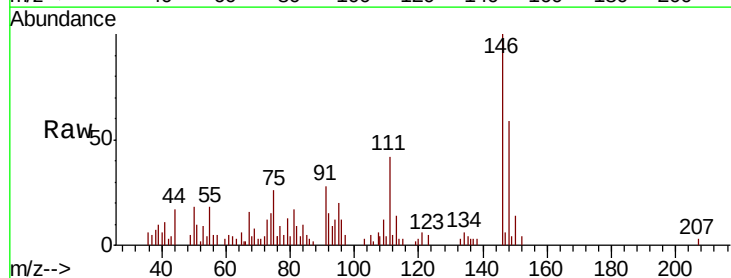
Tgt Ion: 146 Resp: 3896

Ion Ratio Lower Upper

146 100

111 45.5 19.4 58.1

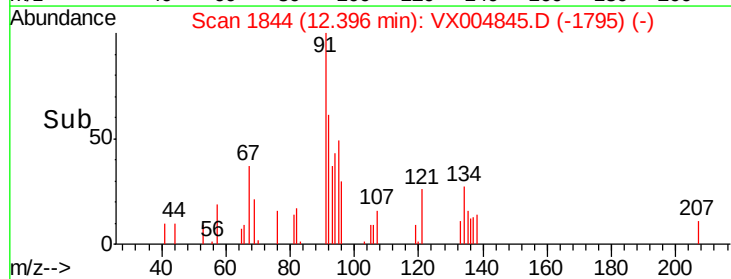
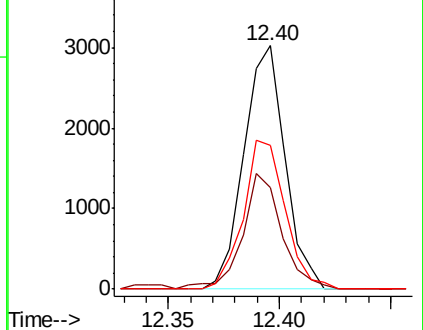
148 62.6 32.8 98.3

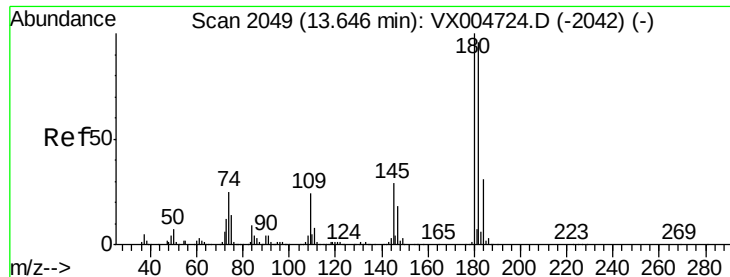


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 0.216 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

Instrument :

MSVOA_X

ClientSampleId :

SA-TW505-2125

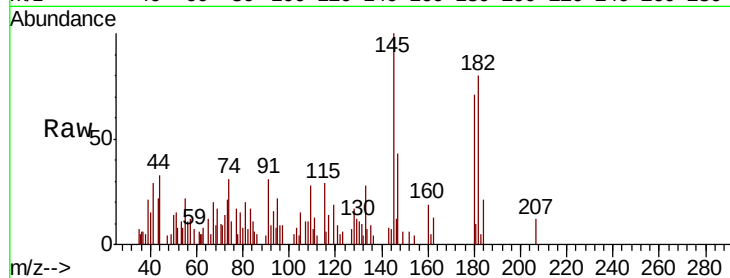
Tot Ion:180 Resp: 1089

Ion Ratio Lower Upper

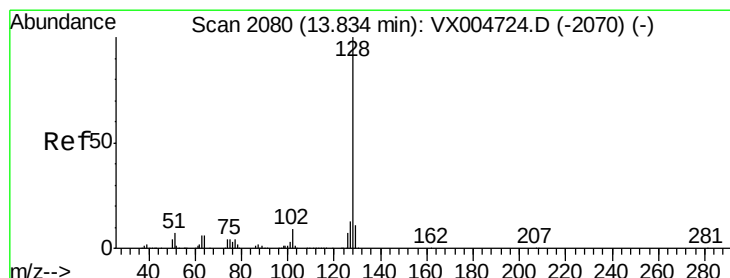
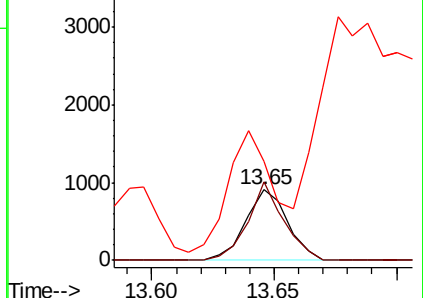
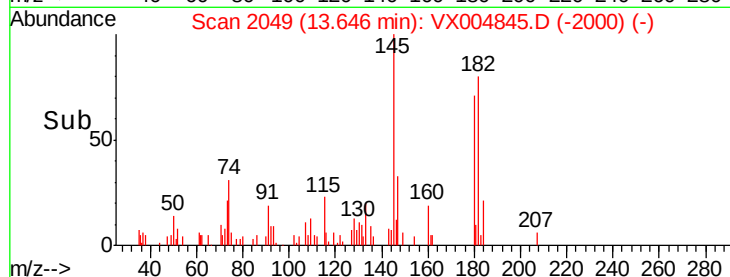
180 100

182 94.9 48.4 145.0

145 199.9 14.3 42.9#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 0.790 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004845.D

Acq: 29 Sep 2018 02:45

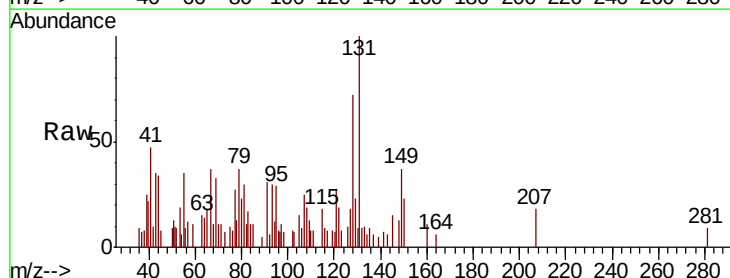
Tgt Ion:128 Resp: 1192

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 36.3 8.6 12.8#



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

