

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111218\
 Data File : VX005909.D
 Acq On : 12 Nov 2018 19:07
 Operator : JC/MD
 Sample : J5912-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS003MW326-181108

Quant Time: Nov 13 04:43:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	107806	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	165633	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	144708	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	75259	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	66077	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
35) Dibromofluoromethane	5.51	113	53657	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	8.71	98	190320	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.14	95	66703	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	

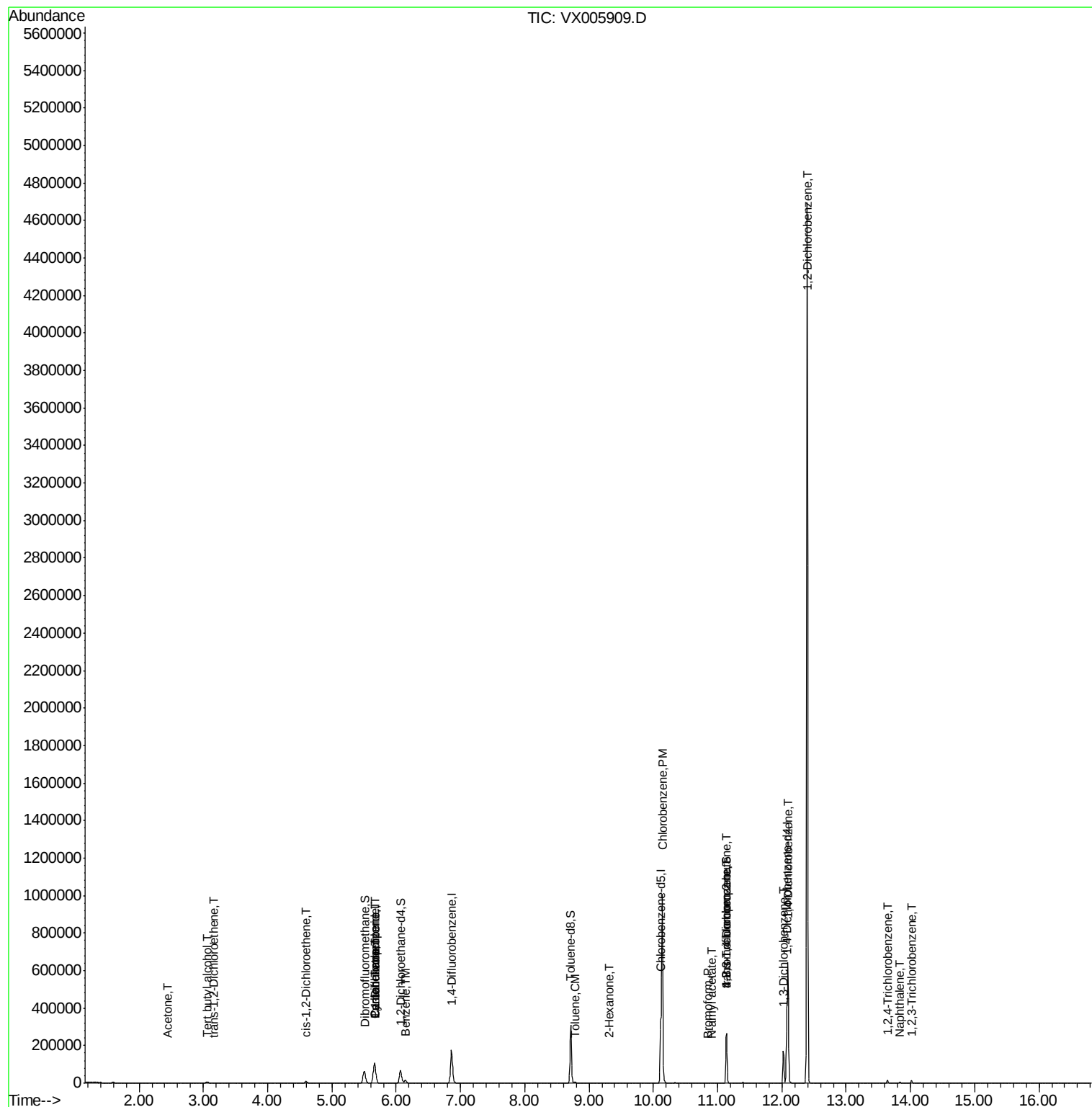
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.06	59	7052	19.863	ug/l	97
16) Acetone	2.45	43	847	1.269	ug/l	93
18) Methyl Acetate	2.78	43	541	Below Cal	#	55
21) trans-1,2-Dichloroethene	3.17	96	472	0.470	ug/l	90
27) cis-1,2-Dichloroethene	4.59	96	5211	4.696	ug/l	90
31) Cyclohexane	5.66	56	2065	1.196	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	7695	4.819	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	9792	6.126	ug/l	# 16
40) Benzene	6.15	78	16743	3.597	ug/l	99
52) Toluene	8.79	92	821	0.316	ug/l	100
59) 2-Hexanone	9.30	43	878	0.519	ug/l	72
65) Chlorobenzene	10.14	112	436831	150.685	ug/l	100
71) Bromoform	10.85	173	252	0.298	ug/l	# 100
74) N-amyl acetate	10.91	43	116	1.297	ug/l	# 44
76) 1,2,3-Trichloropropane	11.14	75	33052	21.568	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	33052	68.742	ug/l	# 9
84) 1,2,4-Trimethylbenzene	11.80	105	94	Below Cal	#	31
87) 1,3-Dichlorobenzene	12.02	146	56052	23.809	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	196833	81.673	ug/l	100
91) 1,2-Dichlorobenzene	12.40	146	1515856	642.752	ug/l	100
93) 1,2,4-Trichlorobenzene	13.65	180	3956	2.383	ug/l	96
95) Naphthalene	13.83	128	4091	1.915	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	3605	2.131	ug/l	99

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

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QLast Update : Wed Nov 07 14:40:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

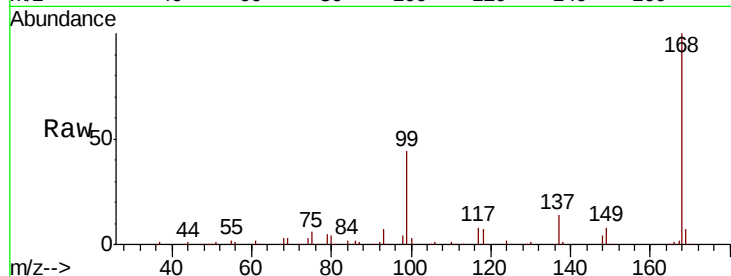
SS003MW326-181108

Tot Ion:168 Resp: 107806

Ion Ratio Lower Upper

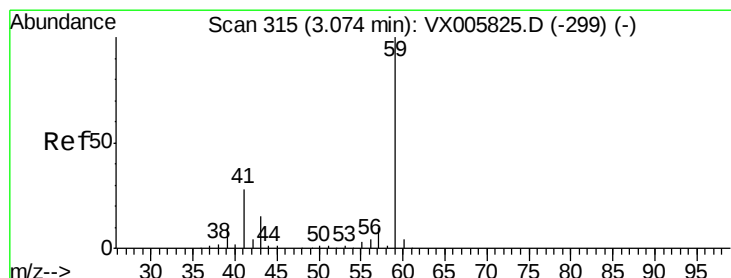
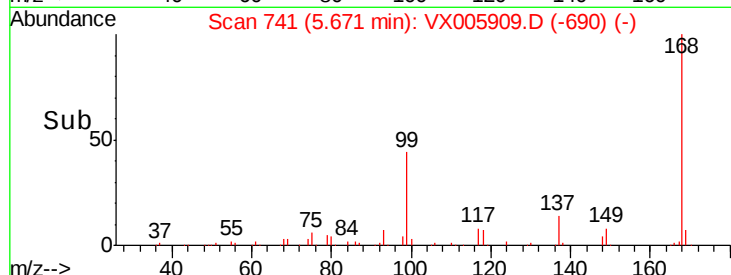
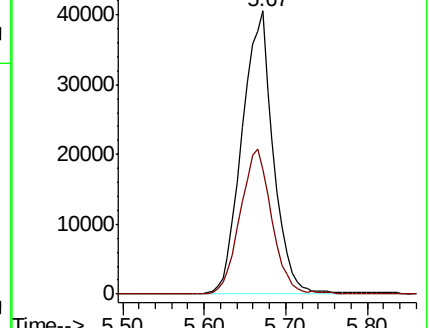
168 100

99 44.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): VX005825.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX005825.D (-727) (-)



#11

Tert butyl alcohol

Concen: 19.863 ug/l

RT: 3.06 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX005909.D

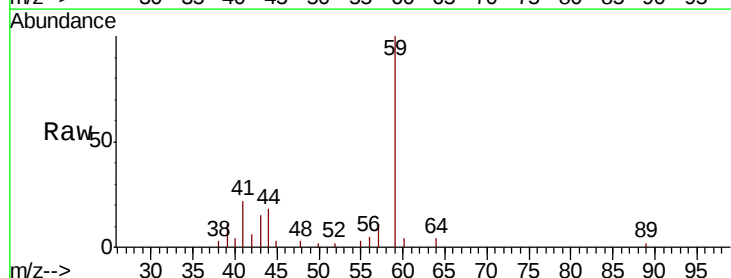
Acq: 12 Nov 2018 19:07

Tgt Ion: 59 Resp: 7052

Ion Ratio Lower Upper

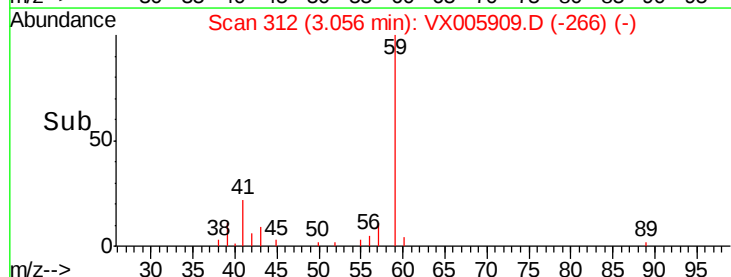
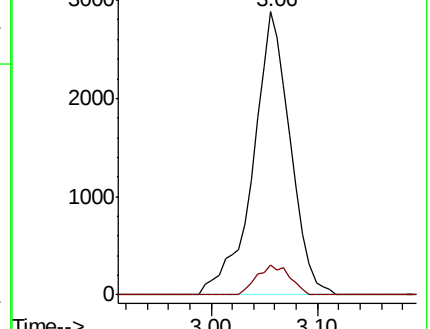
59 100

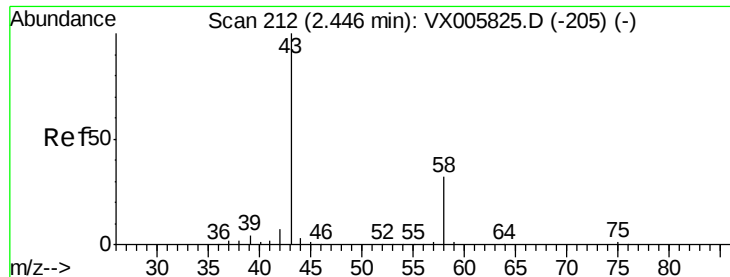
57 9.5 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX005825.D (-299) (-)

Ion 57.00 (56.70 to 57.70): VX005825.D (-299) (-)





#16

Acetone

Concen: 1.269 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

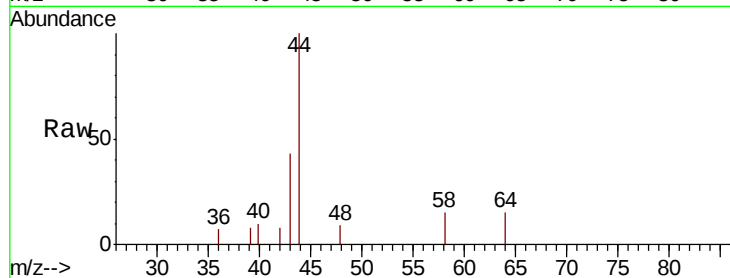
SS003MW326-181108

Tot Ion: 43 Resp: 847

Ion Ratio Lower Upper

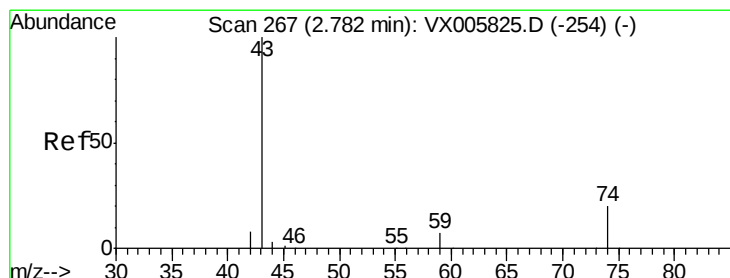
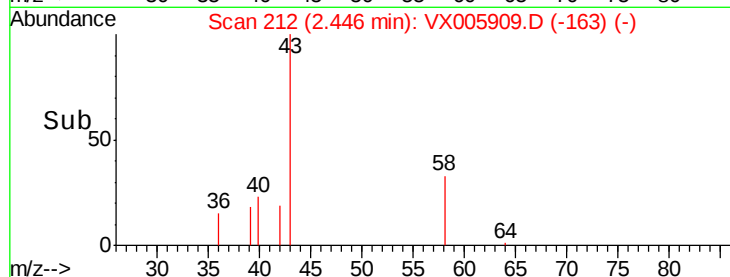
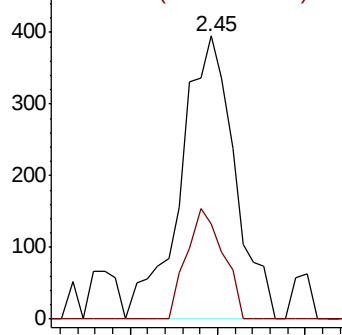
43 100

58 33.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005909.D

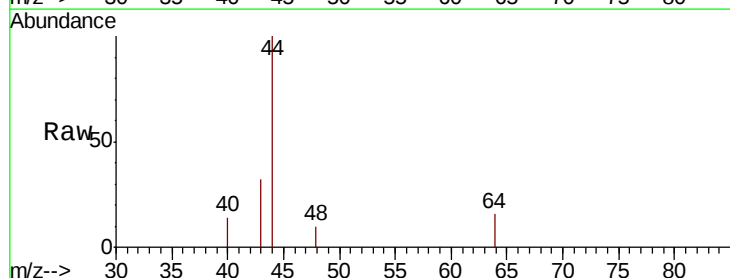
Acq: 12 Nov 2018 19:07

Tgt Ion: 43 Resp: 541

Ion Ratio Lower Upper

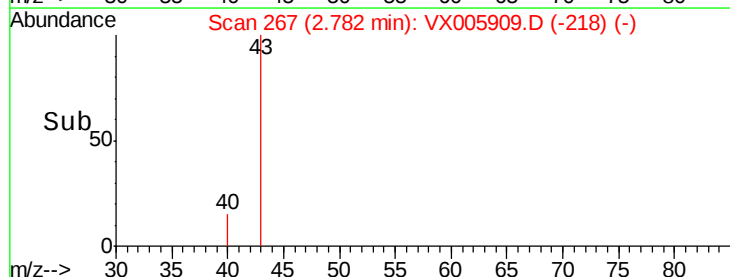
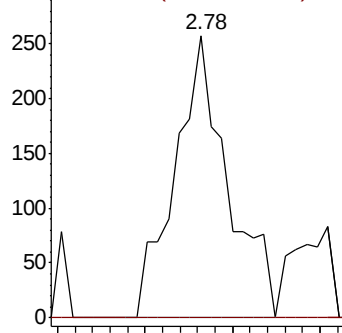
43 100

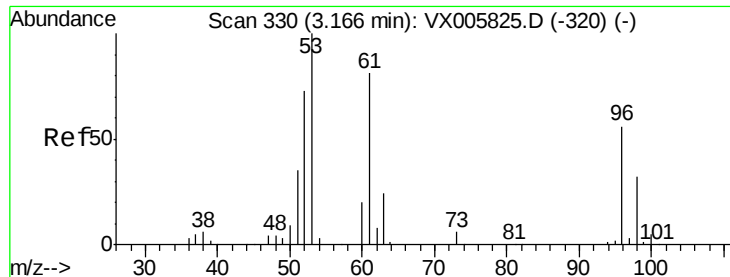
74 0.0 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.470 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108

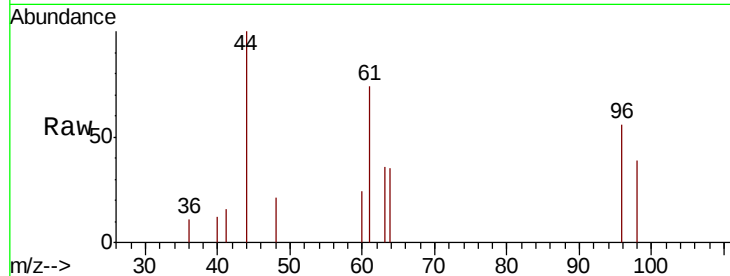
Tot Ion: 96 Resp: 472

Ion Ratio Lower Upper

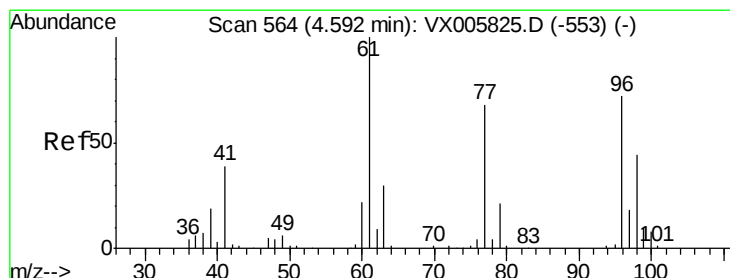
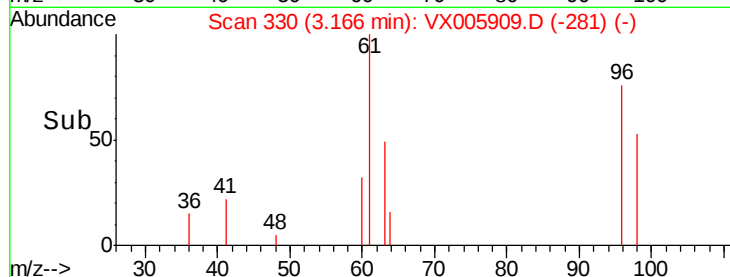
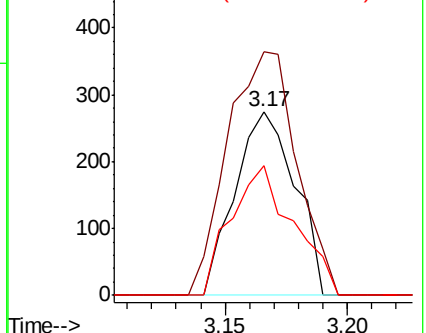
96 100

61 132.4 115.6 173.4

98 70.5 50.2 75.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 4.696 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

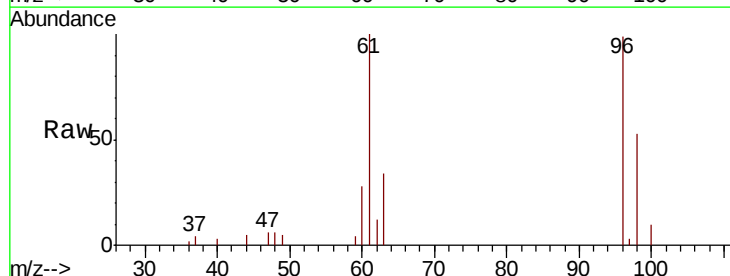
Tgt Ion: 96 Resp: 5211

Ion Ratio Lower Upper

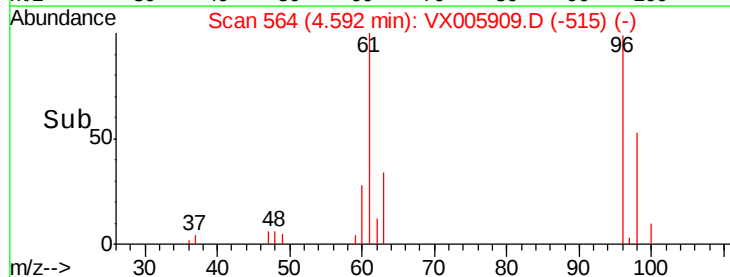
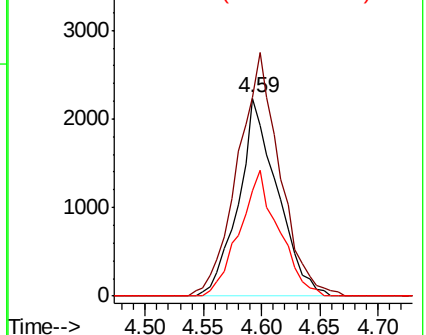
96 100

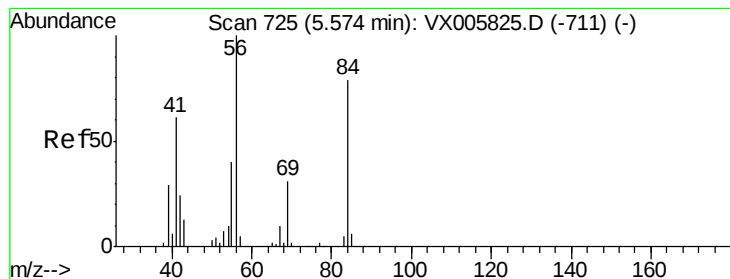
61 133.4 0.0 304.6

98 63.9 0.0 127.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.196 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108

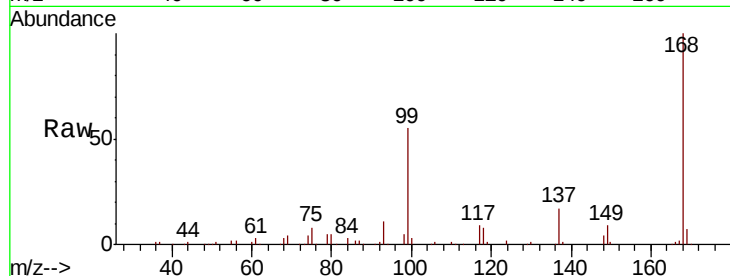
Tot Ion: 56 Resp: 2065

Ion Ratio Lower Upper

56 100

69 169.3 22.6 34.0#

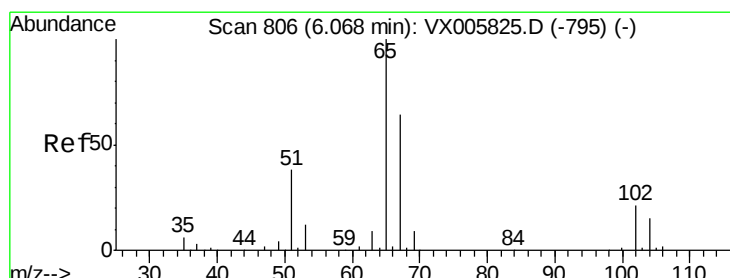
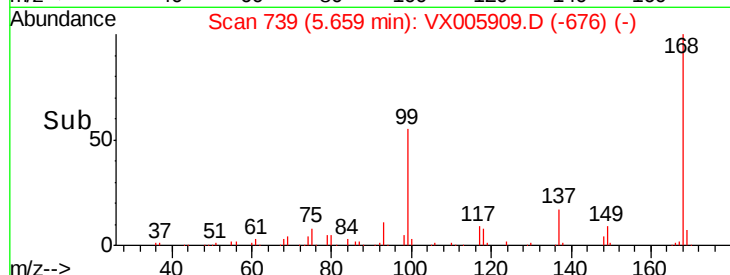
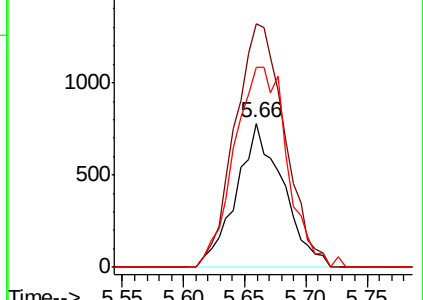
84 139.3 62.7 94.1#



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: 53.315 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005909.D

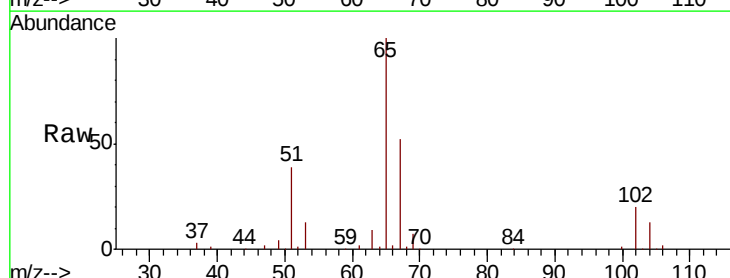
Acq: 12 Nov 2018 19:07

Tgt Ion: 65 Resp: 66077

Ion Ratio Lower Upper

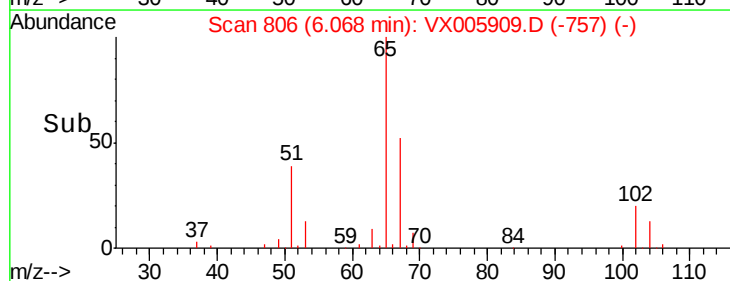
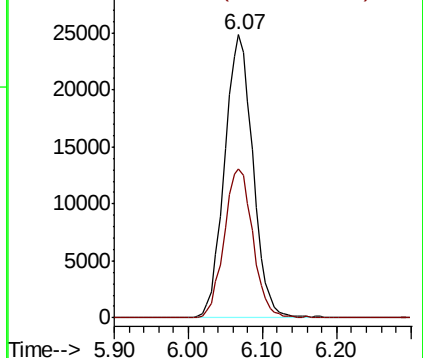
65 100

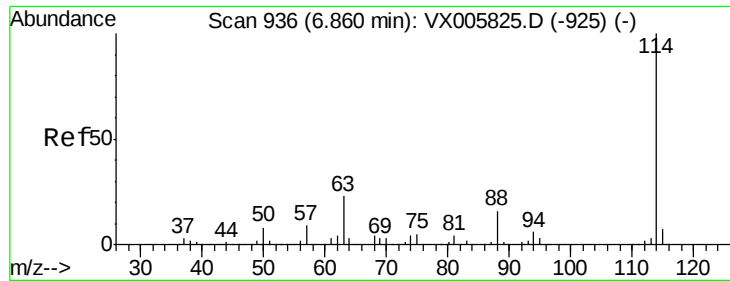
67 53.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

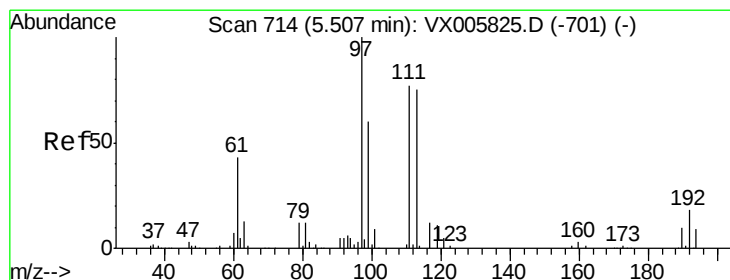
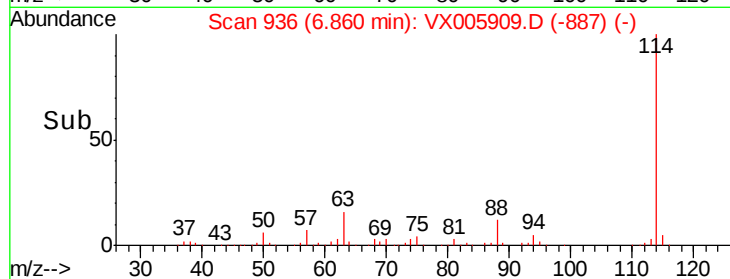
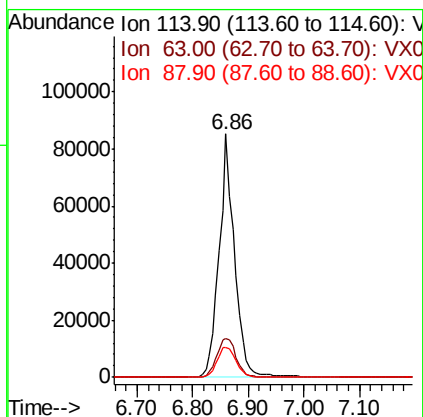
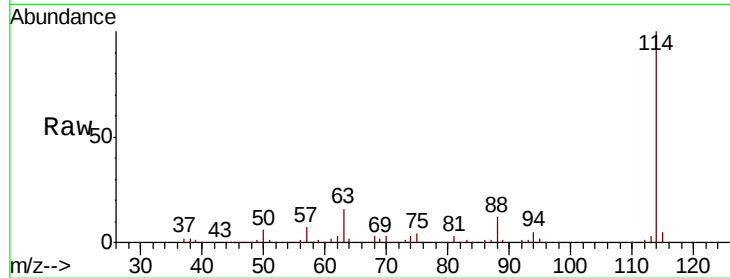




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005909.D
 Acq: 12 Nov 2018 19:07

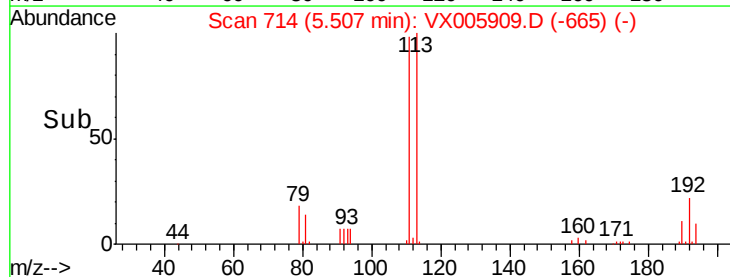
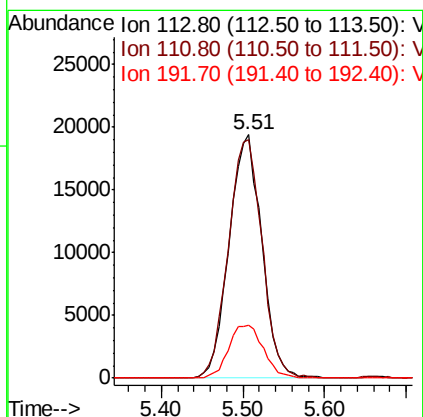
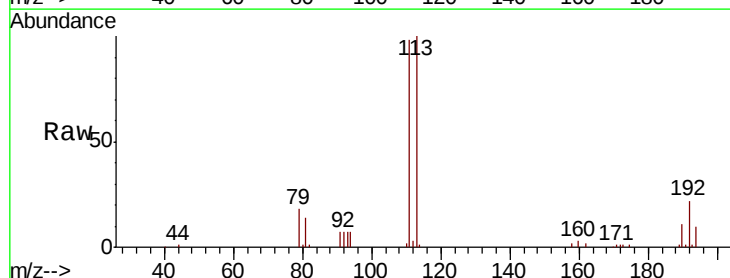
Instrument :
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 SS003MW326-181108

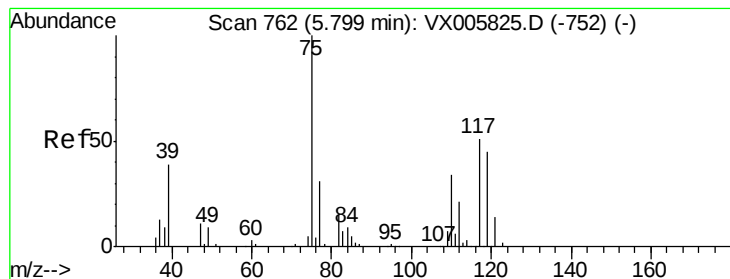
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.1	0.0	42.8
88	12.4	0.0	31.2



#35
 Dibromofluoromethane
 Concen: 47.629 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VX005909.D
 Acq: 12 Nov 2018 19:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.3	123.5
192	23.0	17.9	26.9





#36

1,1-Dichloropropene

Concen: 4.819 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108

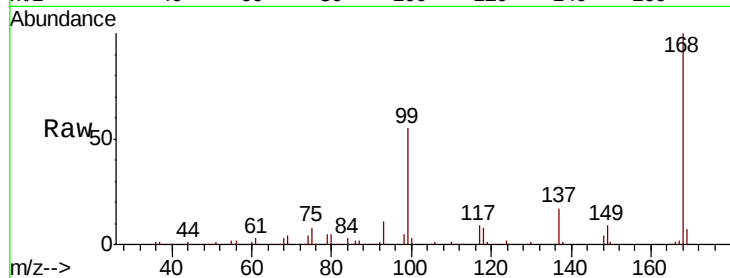
Tot Ion: 75 Resp: 7695

Ion Ratio Lower Upper

75 100

110 9.3 17.4 52.2#

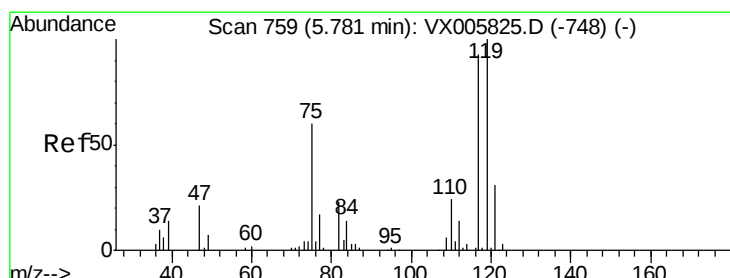
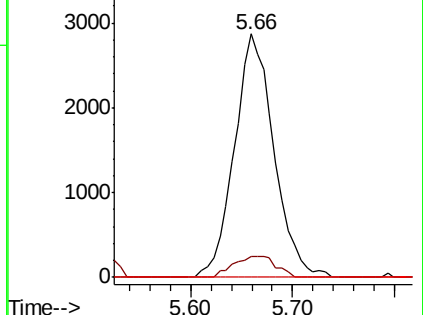
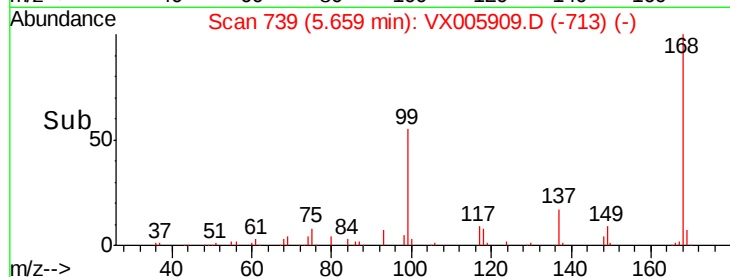
77 0.0 25.8 38.6#



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: 6.126 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

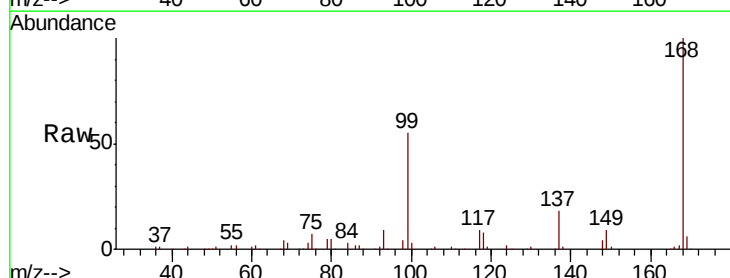
Tgt Ion: 117 Resp: 9792

Ion Ratio Lower Upper

117 100

119 5.7 78.1 117.1#

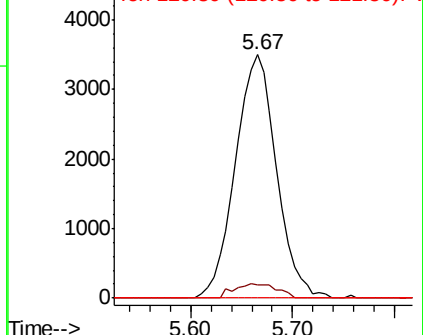
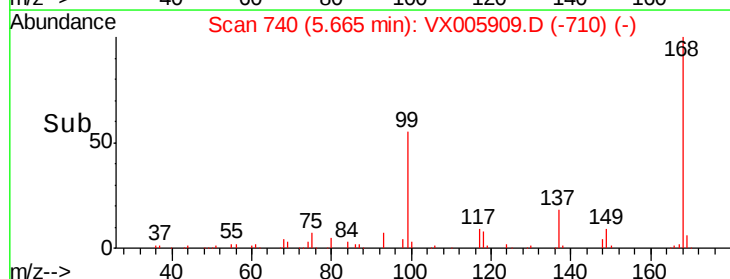
121 0.0 24.6 36.8#

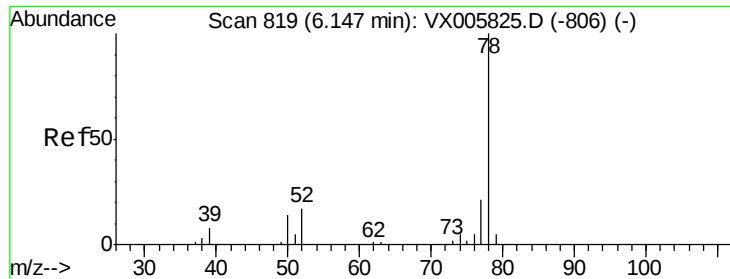


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 3.597 ug/l

RT: 6.15 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

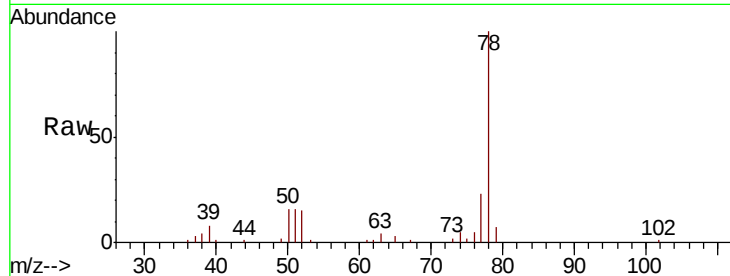
SS003MW326-181108

Tot Ion: 78 Resp: 16743

Ion Ratio Lower Upper

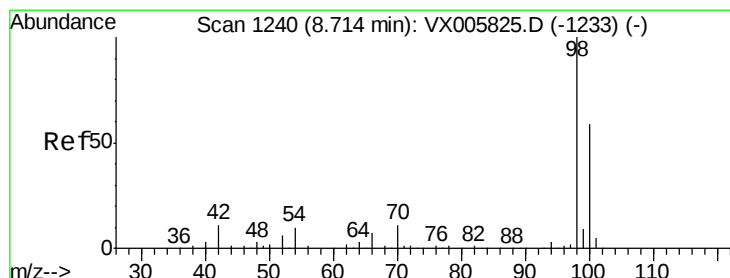
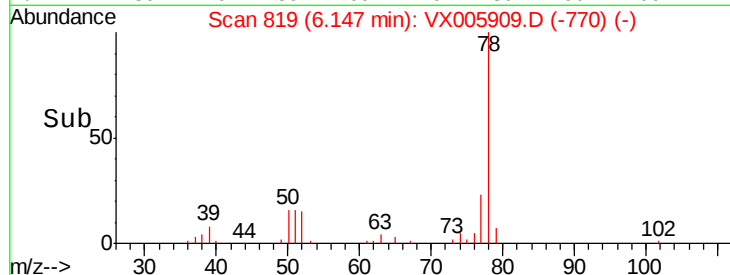
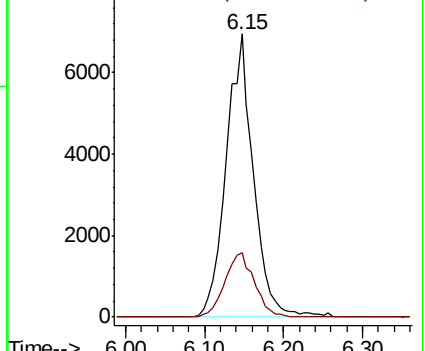
78 100

77 22.7 18.4 27.6



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 50.816 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005909.D

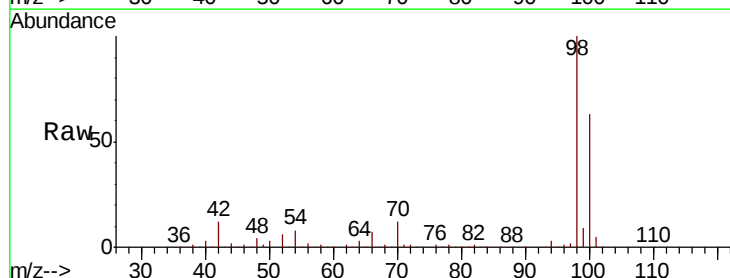
Acq: 12 Nov 2018 19:07

Tgt Ion: 98 Resp: 190320

Ion Ratio Lower Upper

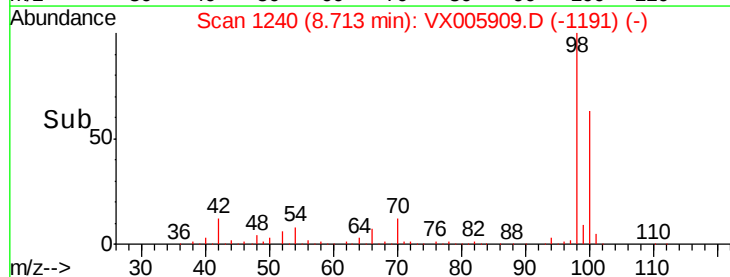
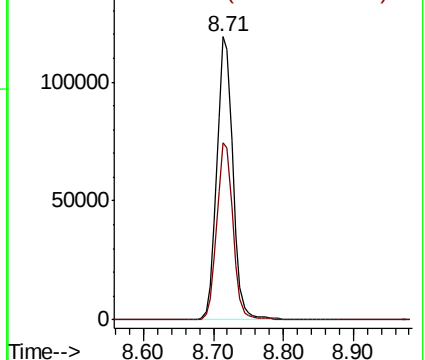
98 100

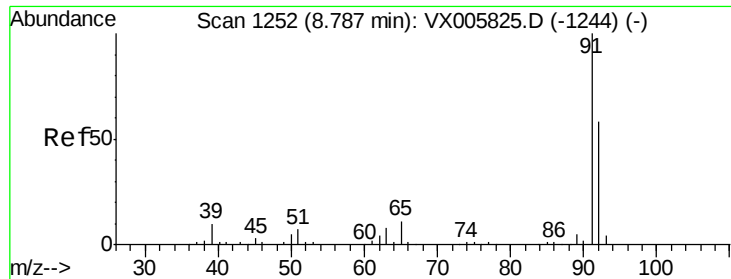
100 63.2 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.316 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

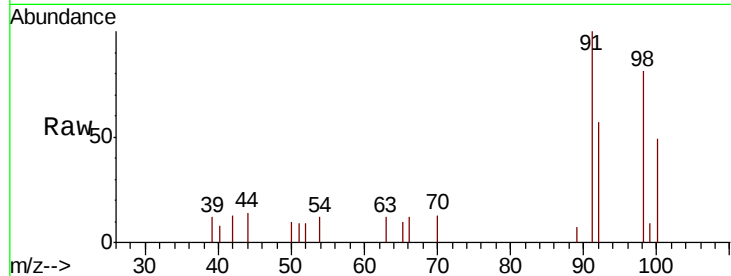
SS003MW326-181108

Tot Ion: 92 Resp: 821

Ion Ratio Lower Upper

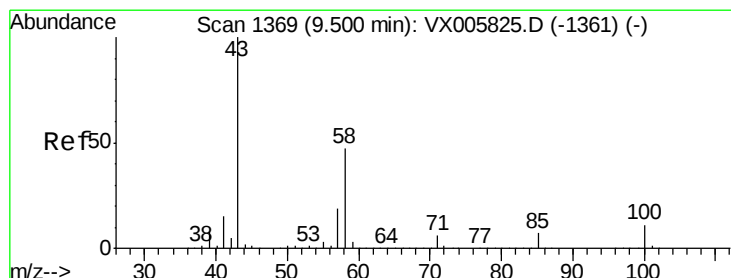
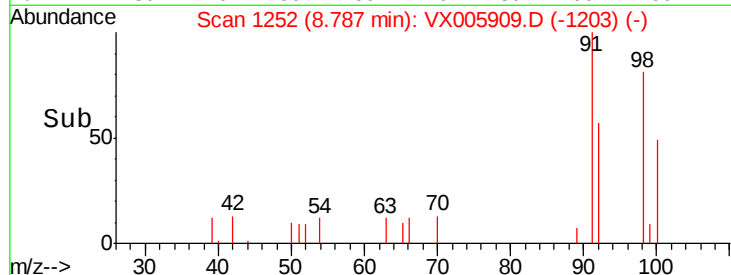
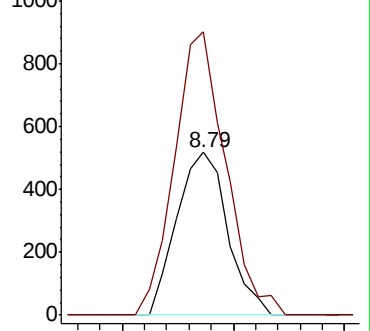
92 100

91 175.4 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.519 ug/l

RT: 9.30 min Scan# 1337

Delta R.T. -0.20 min

Lab File: VX005909.D

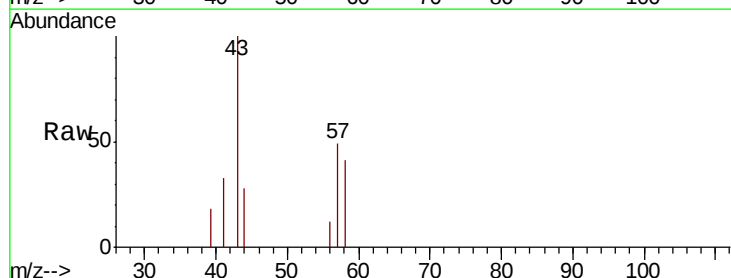
Acq: 12 Nov 2018 19:07

Tgt Ion: 43 Resp: 878

Ion Ratio Lower Upper

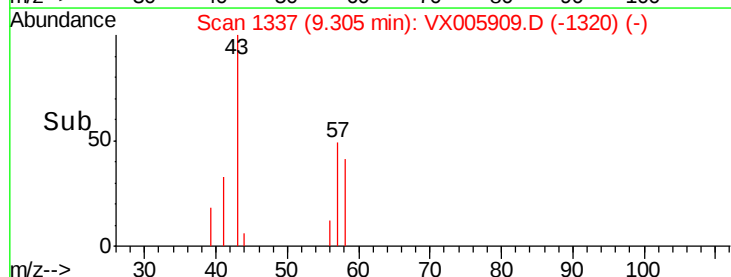
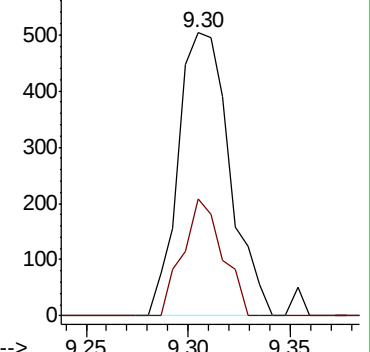
43 100

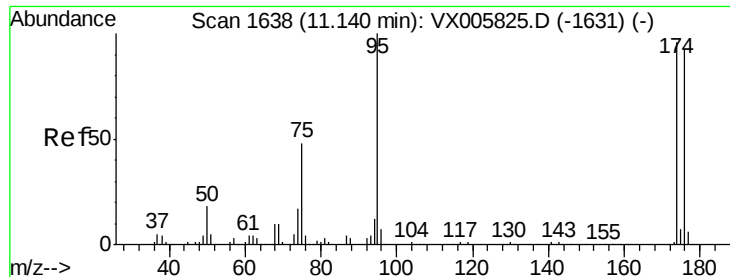
58 32.0 25.9 77.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 49.535 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108

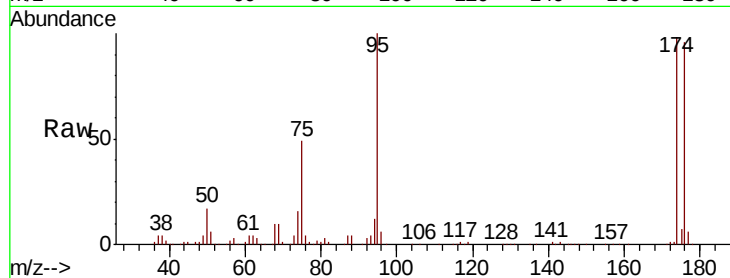
Tot Ion: 95 Resp: 66703

Ion Ratio Lower Upper

95 100

174 92.9 0.0 184.4

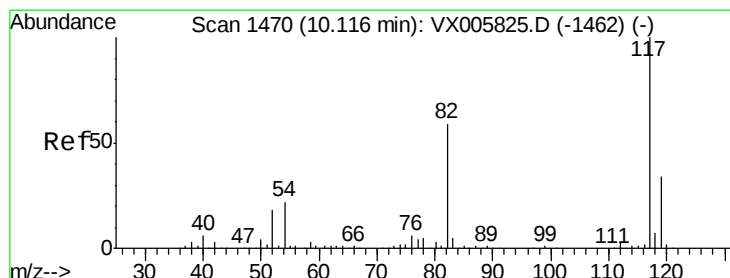
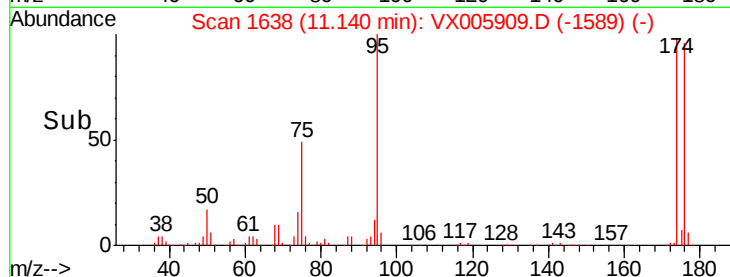
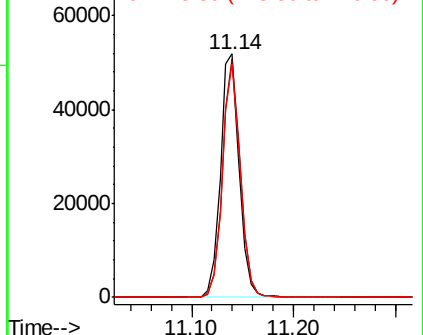
176 90.9 0.0 177.4



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

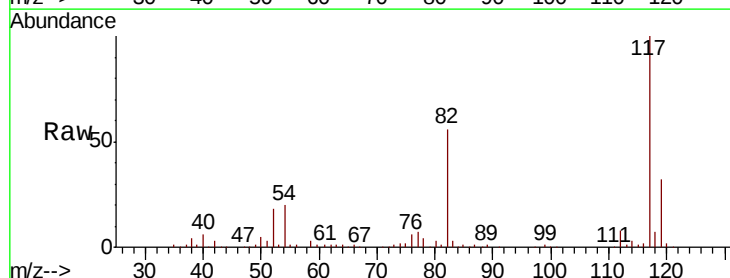
Tgt Ion: 117 Resp: 144708

Ion Ratio Lower Upper

117 100

82 55.6 44.1 66.1

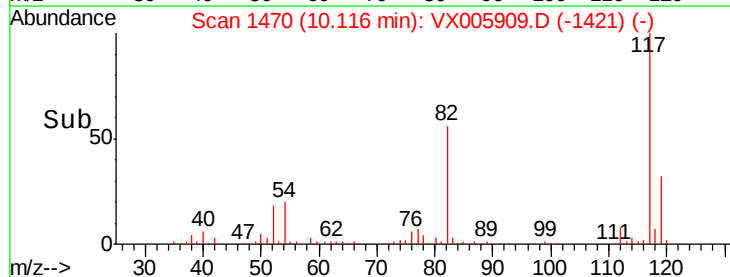
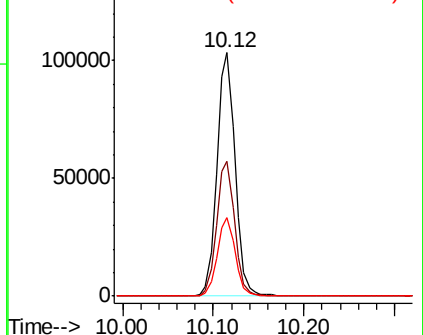
119 32.2 26.2 39.2

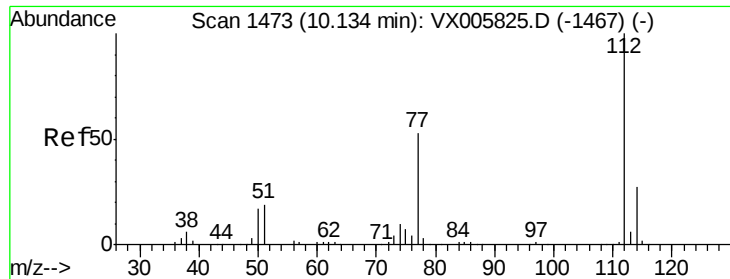


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

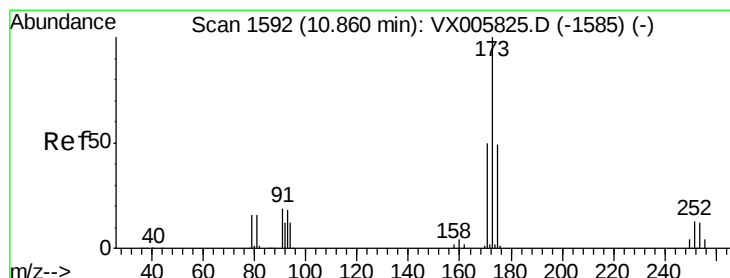
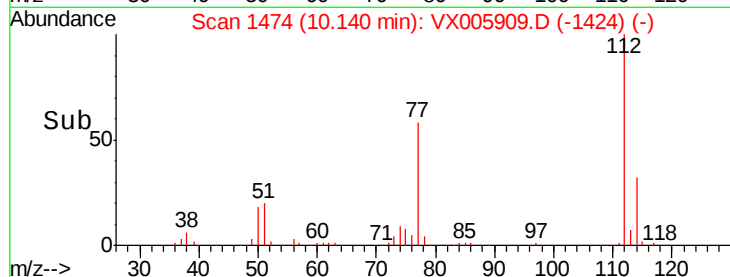
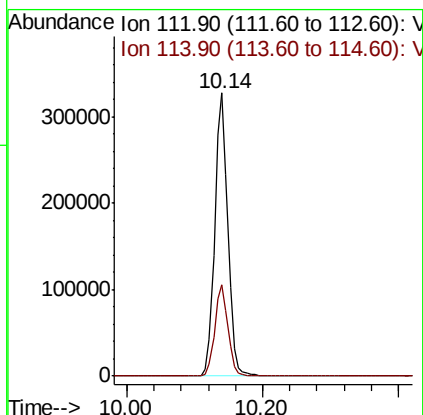
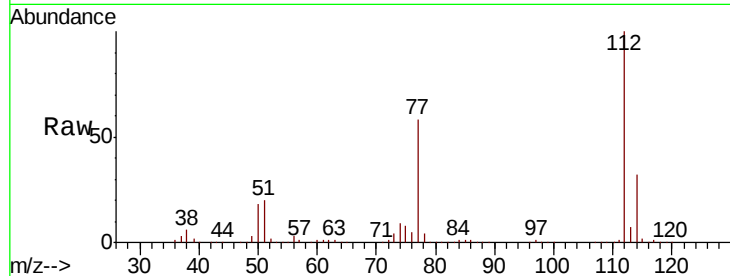




#65
Chlorobenzene
Concen: 150.685 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX005909.D
Acq: 12 Nov 2018 19:07

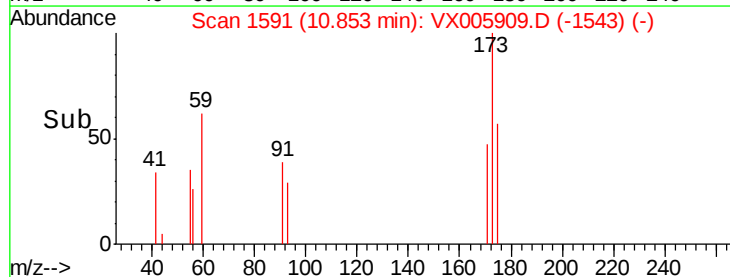
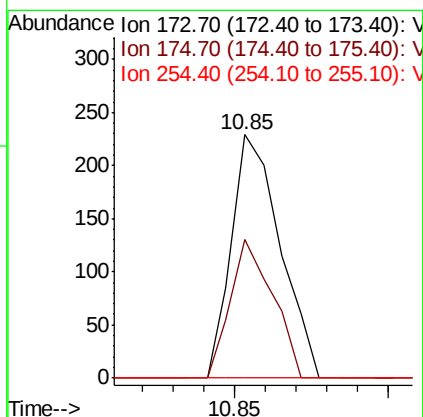
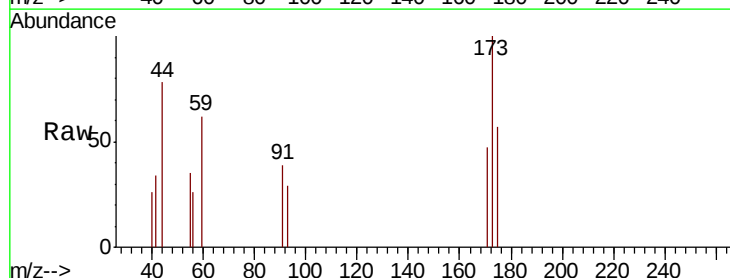
Instrument :
MSVOA_X
ClientSampleId :
SS003MW326-181108

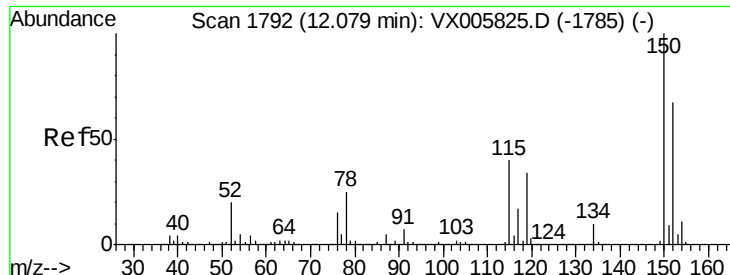
Tot Ion:112 Resp: 436831
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.6



#71
Bromoform
Concen: 0.298 ug/l
RT: 10.85 min Scan# 1591
Delta R.T. -0.01 min
Lab File: VX005909.D
Acq: 12 Nov 2018 19:07

Tgt Ion:173 Resp: 252
Ion Ratio Lower Upper
173 100
175 49.2 24.8 74.3
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108

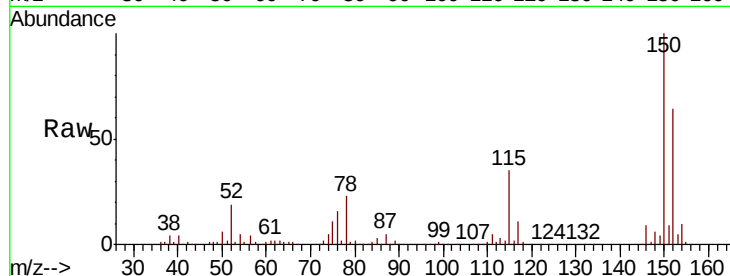
Tot Ion:152 Resp: 75259

Ion Ratio Lower Upper

152 100

115 54.6 39.4 118.1

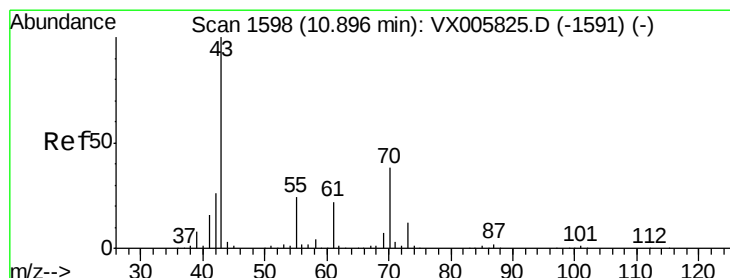
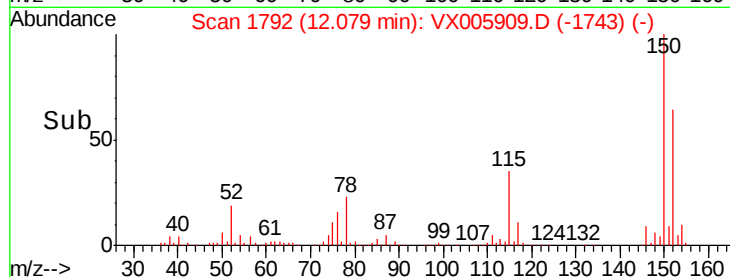
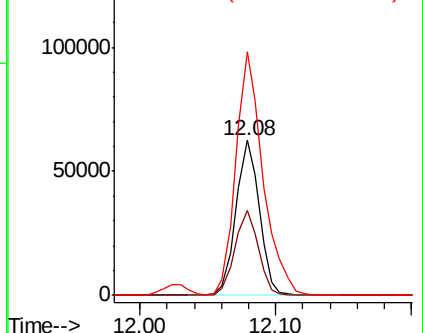
150 181.2 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.297 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Tgt Ion: 43 Resp: 116

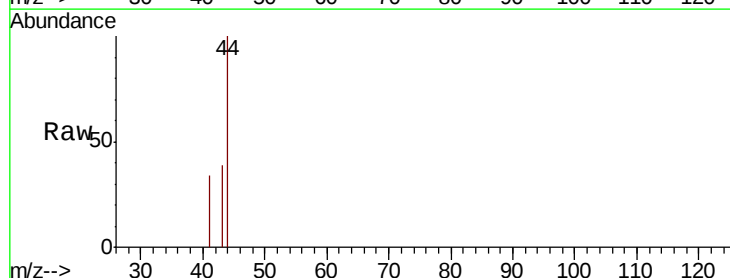
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

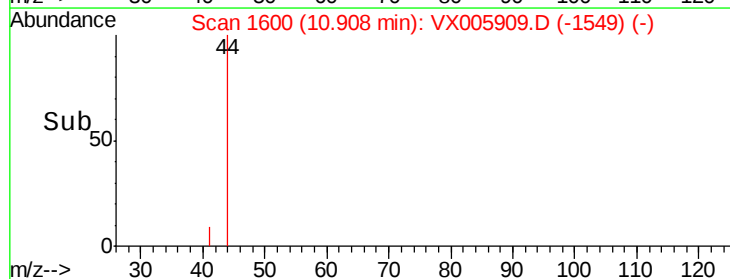
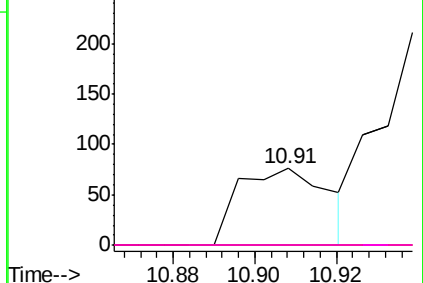


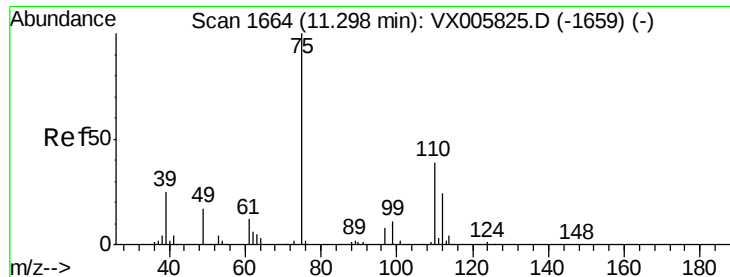
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 21.568 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

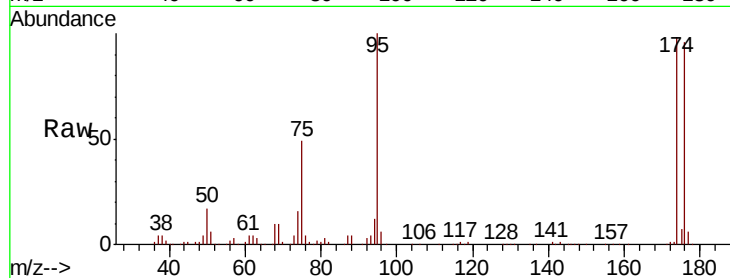
SS003MW326-181108

Tot Ion: 75 Resp: 33052

Ion Ratio Lower Upper

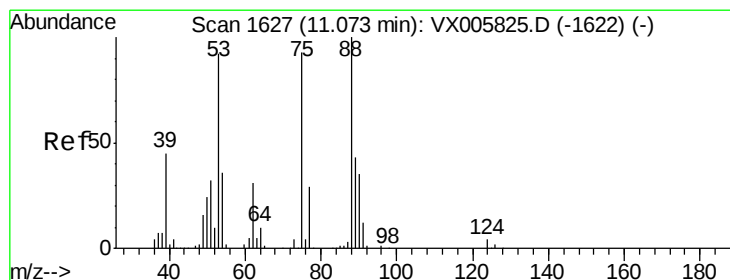
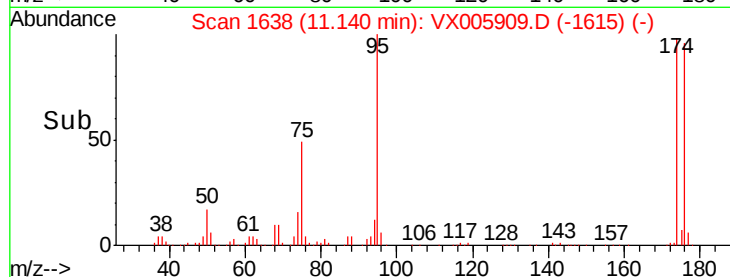
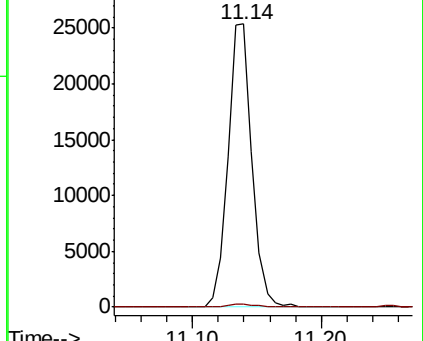
75 100

77 1.2 20.5 61.6#



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: 68.742 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

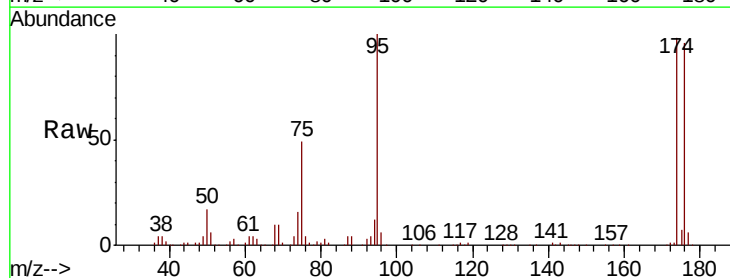
Tgt Ion: 75 Resp: 33052

Ion Ratio Lower Upper

75 100

53 0.1 80.2 120.2#

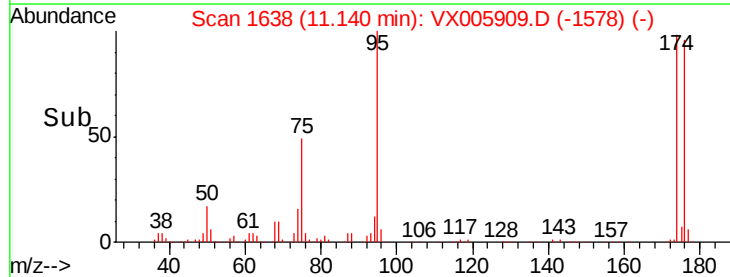
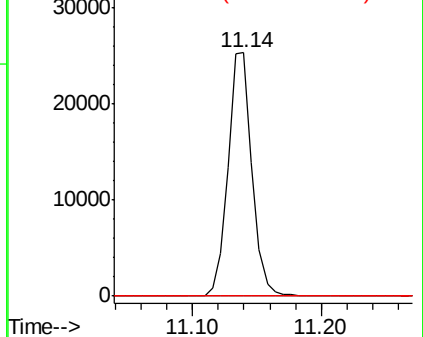
89 0.0 39.8 59.8#

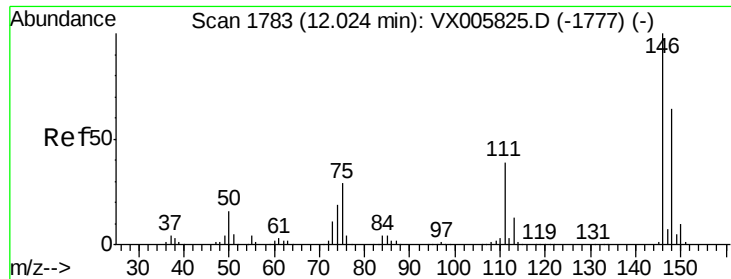


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

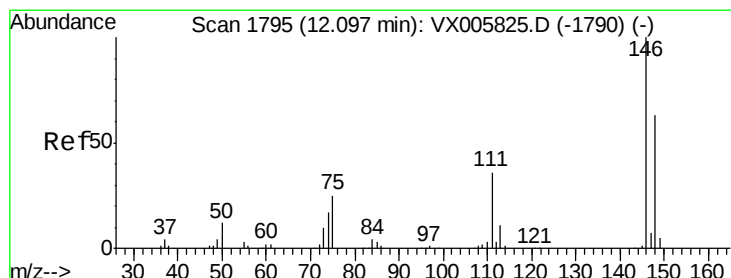
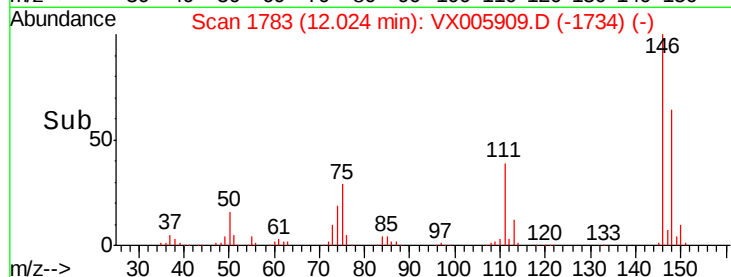
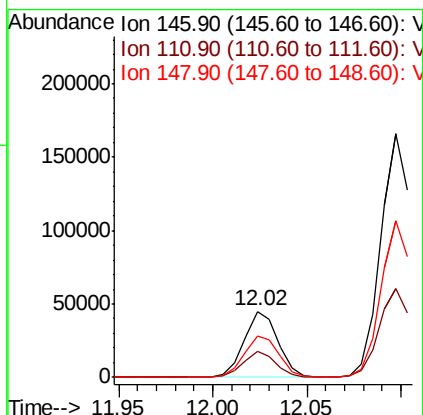
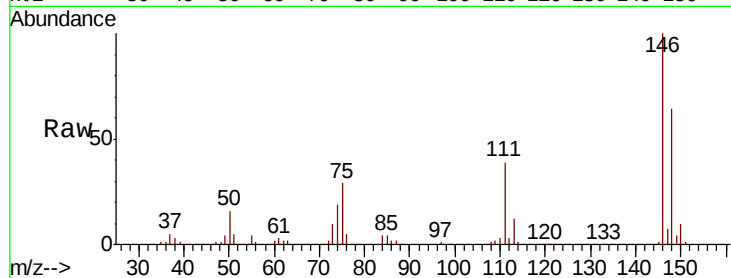




#87
 1,3-Dichlorobenzene
 Concen: 23.809 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX005909.D
 Acq: 12 Nov 2018 19:07

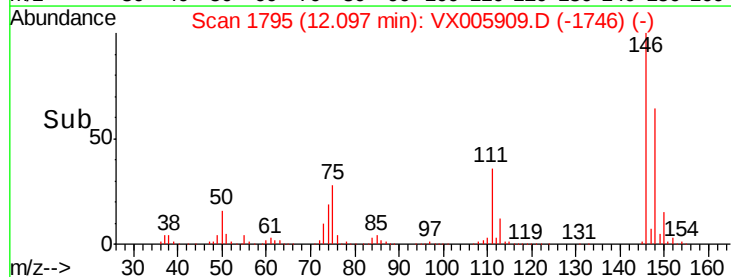
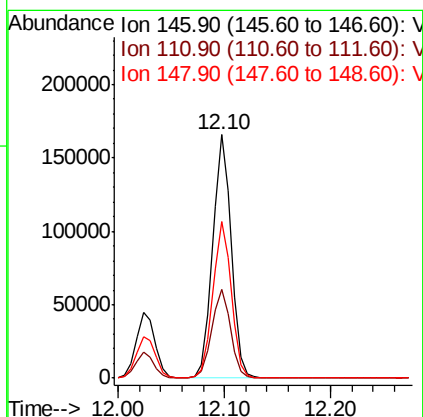
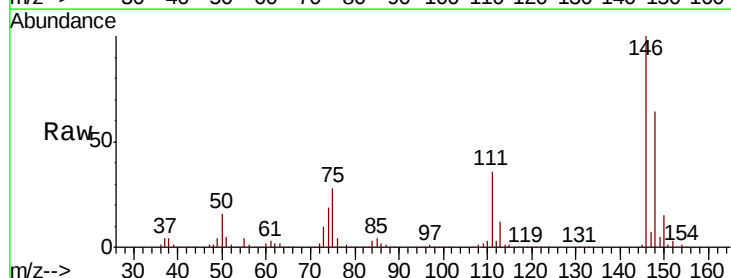
Instrument :
 MSVOA_X
 ClientSampleId :
 SS003MW326-181108

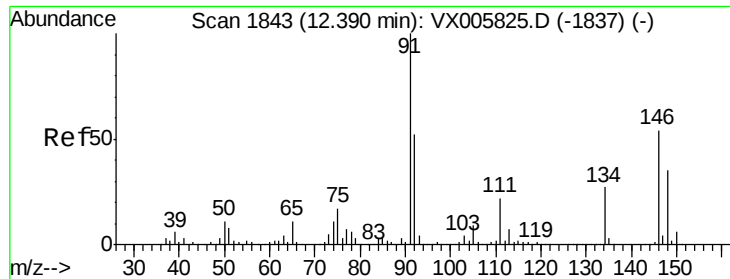
Tot Ion:146 Resp: 56052
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.0 57.0
 148 64.2 31.9 95.9



#88
 1,4-Dichlorobenzene
 Concen: 81.673 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX005909.D
 Acq: 12 Nov 2018 19:07

Tgt Ion:146 Resp: 196833
 Ion Ratio Lower Upper
 146 100
 111 37.1 18.6 55.8
 148 64.5 32.1 96.3

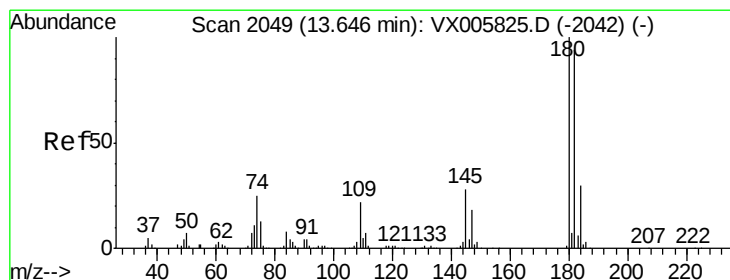
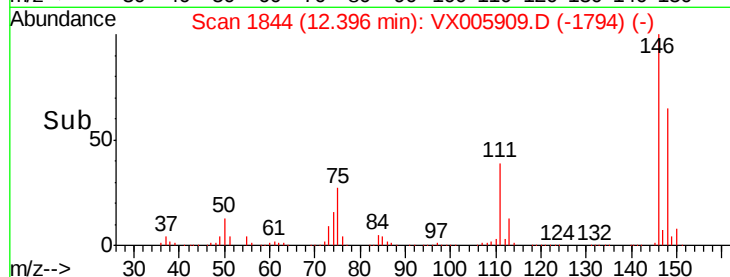
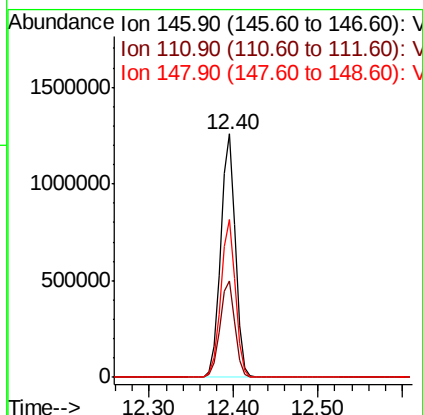
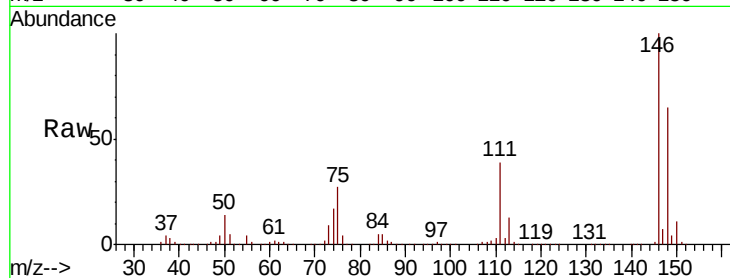




#91
 1,2-Dichlorobenzene
 Concen: 642.752 ug/l
 RT: 12.40 min Scan# 1844
 Delta R.T. 0.01 min
 Lab File: VX005909.D
 Acq: 12 Nov 2018 19:07

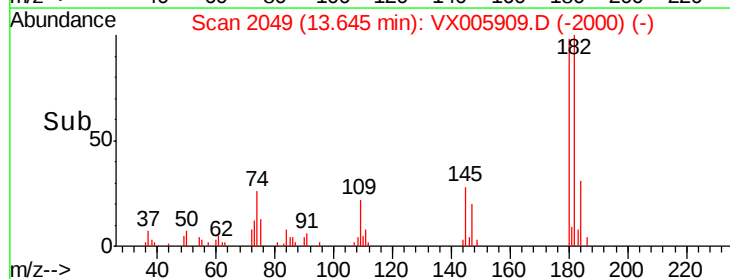
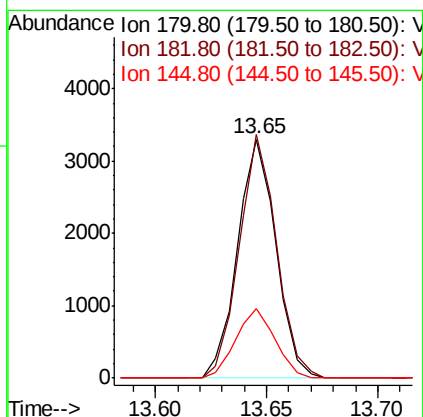
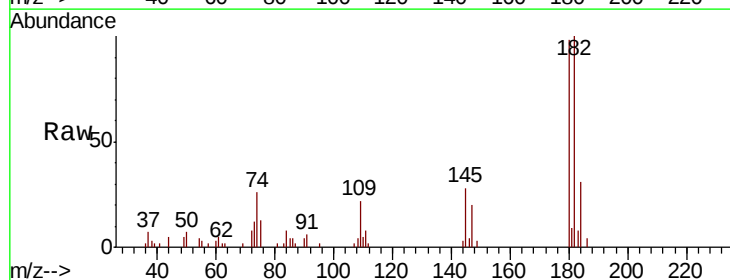
Instrument :
 MSVOA_X
 ClientSampleId :
 SS003MW326-181108

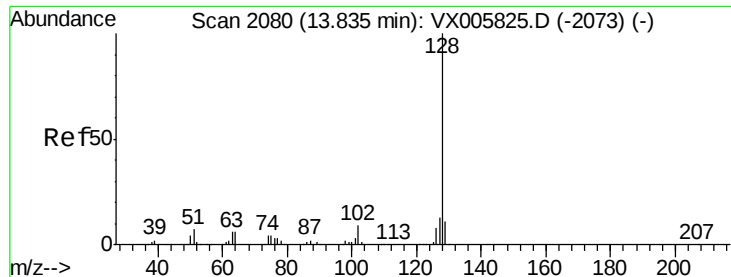
Tot Ion:146 Resp: 1515856
 Ion Ratio Lower Upper
 146 100
 111 40.1 20.0 59.9
 148 64.4 32.2 96.6



#93
 1,2,4-Trichlorobenzene
 Concen: 2.383 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005909.D
 Acq: 12 Nov 2018 19:07

Tgt Ion:180 Resp: 3956
 Ion Ratio Lower Upper
 180 100
 182 99.1 47.6 142.8
 145 29.5 14.1 42.2





#95

Naphthalene

Concen: 1.915 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

SS003MW326-181108

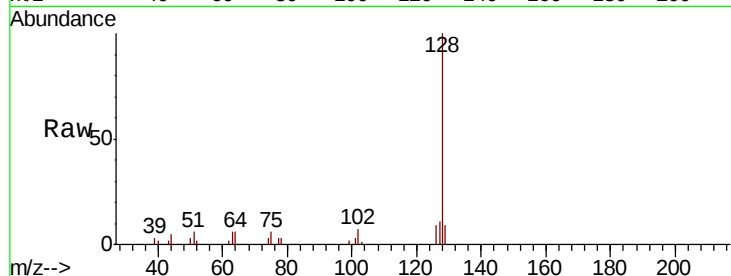
Tot Ion:128 Resp: 4091

Ion Ratio Lower Upper

128 100

127 12.2 10.4 15.6

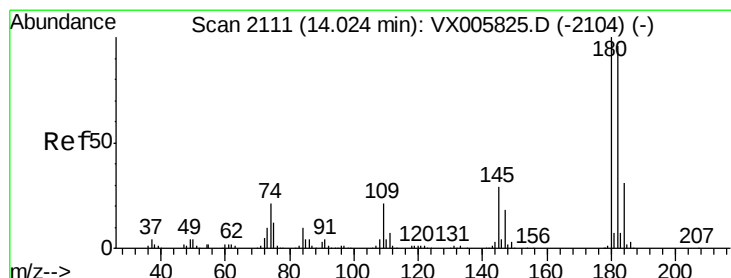
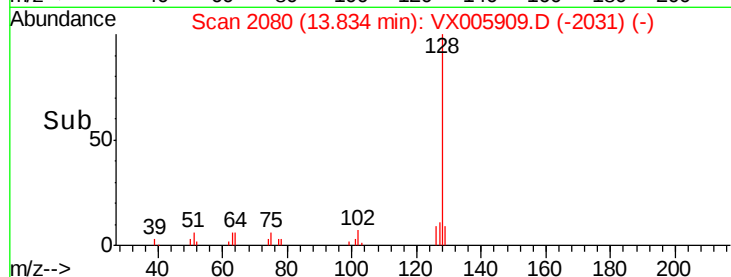
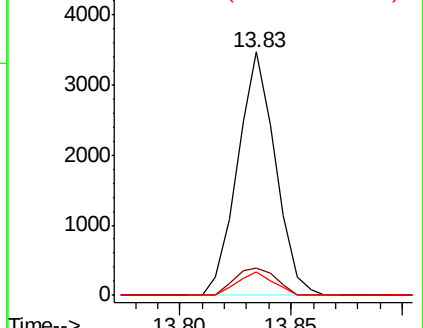
129 8.9 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 2.131 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.01 min

Lab File: VX005909.D

Acq: 12 Nov 2018 19:07

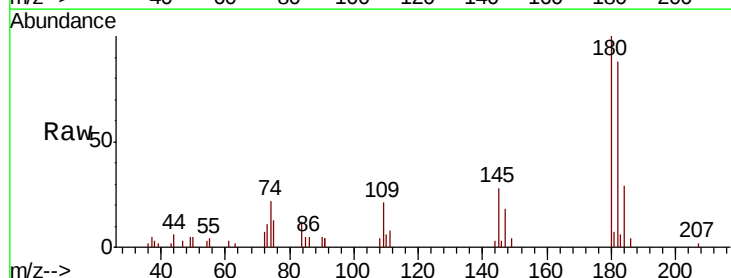
Tgt Ion:180 Resp: 3605

Ion Ratio Lower Upper

180 100

182 95.5 48.0 144.2

145 30.4 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

