

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121018\
 Data File : VX006398.D
 Acq On : 11 Dec 2018 04:38
 Operator : JC/MD
 Sample : J6324-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-109D3-20181206

Quant Time: Dec 11 05:02:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	682595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1076404	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	989353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	469261	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	360509	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
35) Dibromofluoromethane	5.51	113	329049	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
50) Toluene-d8	8.71	98	1266361	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.14	95	470598	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	

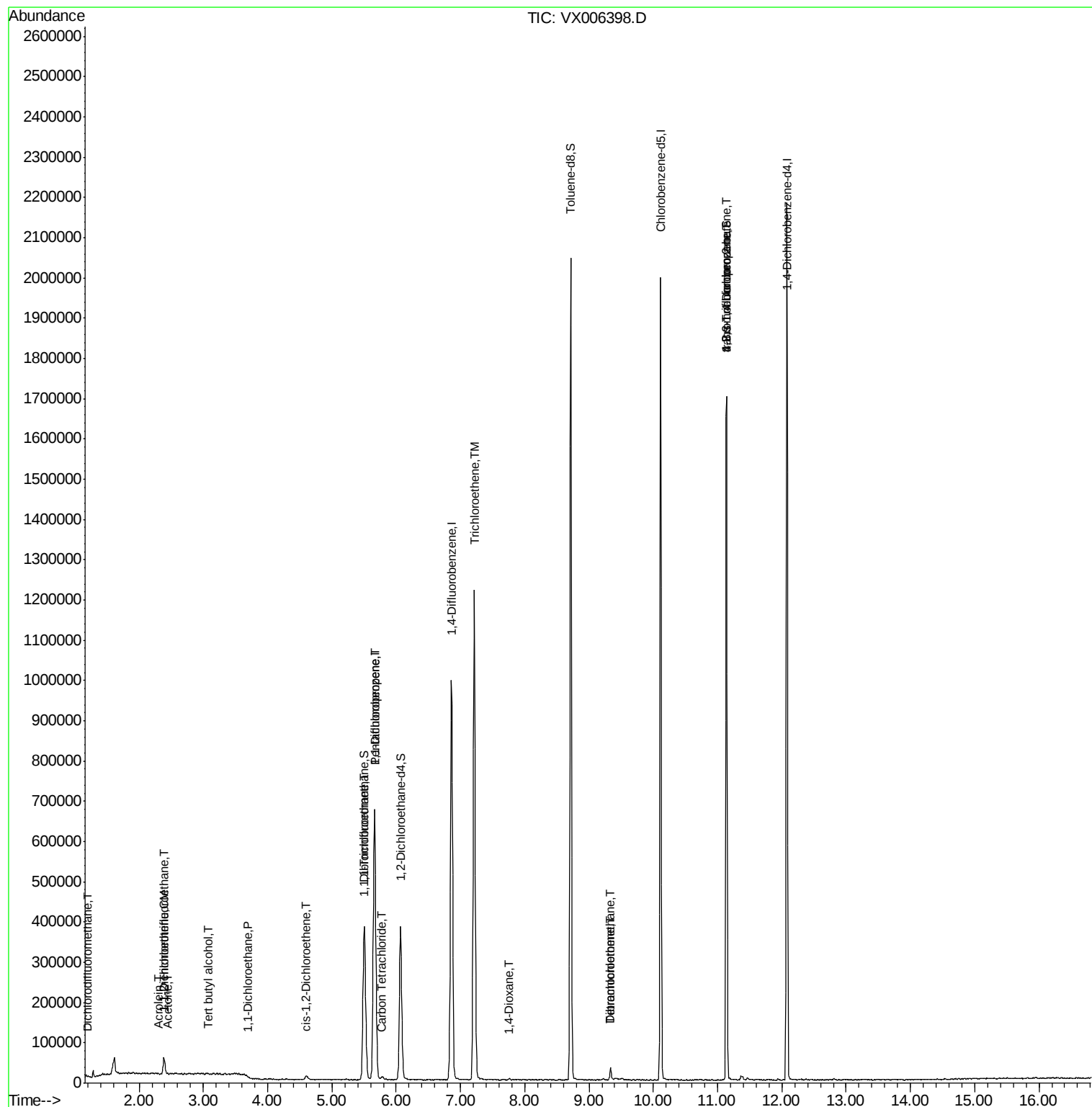
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1619	0.242	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	16079	2.492	ug/l	97
11) Tert butyl alcohol	3.07	59	2023	1.062	ug/l #	84
12) 1,1-Dichloroethene	2.38	96	3387	0.548	ug/l #	74
13) Acrolein	2.31	56	220	0.211	ug/l #	13
16) Acetone	2.45	43	678	0.207	ug/l #	49
24) 1,1-Dichloroethane	3.70	63	2611	0.240	ug/l #	83
27) cis-1,2-Dichloroethene	4.60	96	6513	0.887	ug/l	90
32) 1,1,1-Trichloroethane	5.49	97	4362	0.400	ug/l #	44
36) 1,1-Dichloropropene	5.67	75	44178	4.874	ug/l #	48
38) Carbon Tetrachloride	5.78	117	6085	0.571	ug/l	86
44) Trichloroethene	7.21	130	487843	59.316	ug/l	96
49) 1,4-Dioxane	7.76	88	2639	13.005	ug/l #	94
60) Dibromochloromethane	9.34	129	4908	0.549	ug/l #	12
64) Tetrachloroethene	9.34	164	5349	0.718	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	214994	23.737	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	214994	55.703	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

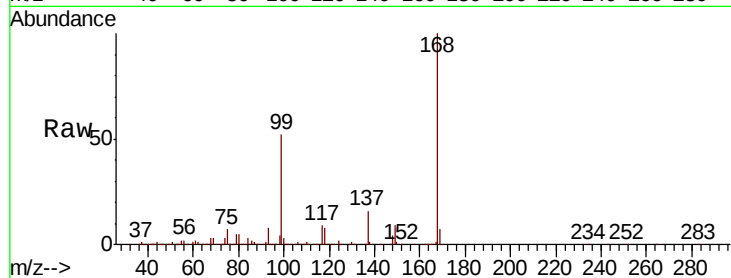
RE-109D3-20181206

Tot Ion:168 Resp: 682595

Ion Ratio Lower Upper

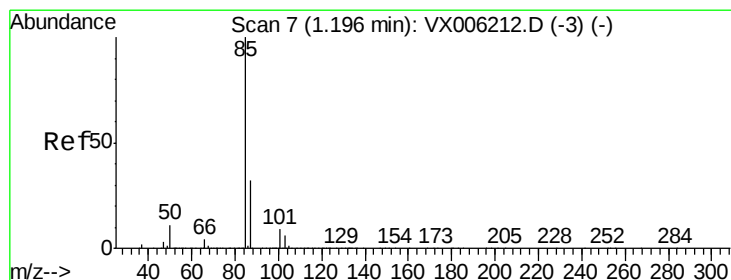
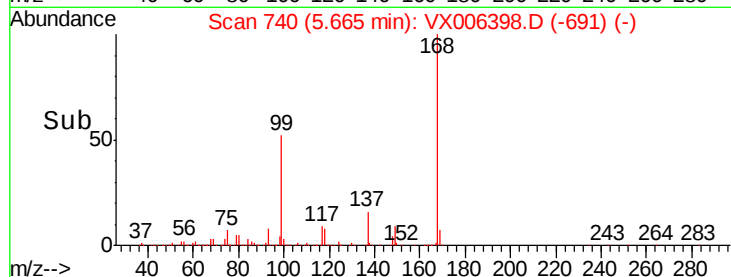
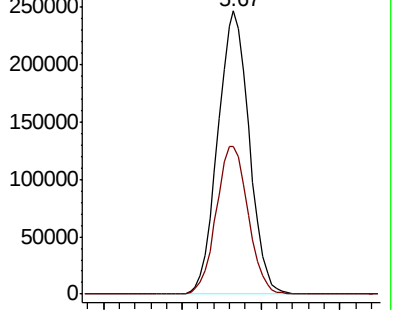
168 100

99 52.2 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.242 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006398.D

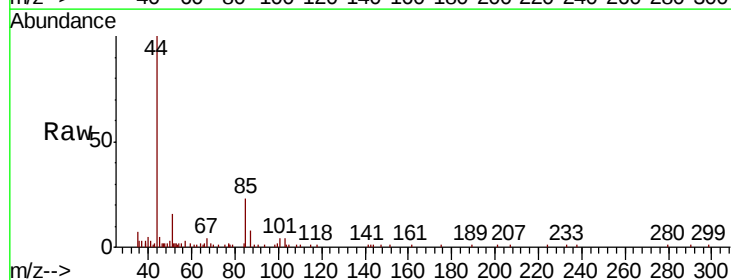
Acq: 11 Dec 2018 04:38

Tgt Ion: 85 Resp: 1619

Ion Ratio Lower Upper

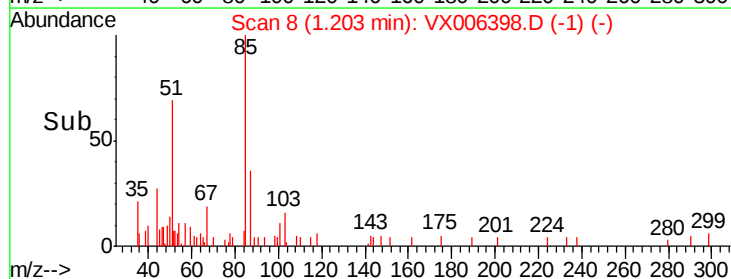
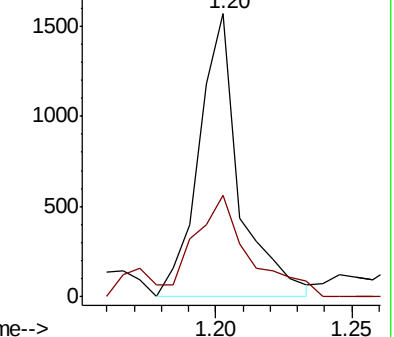
85 100

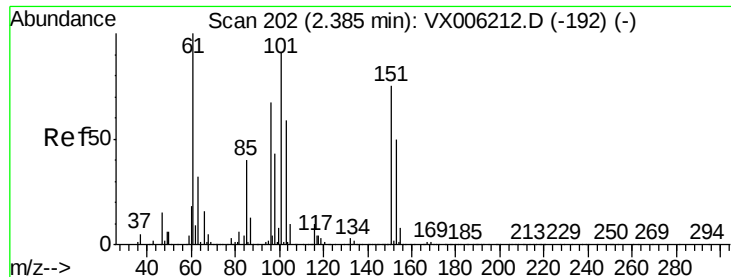
87 31.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.492 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

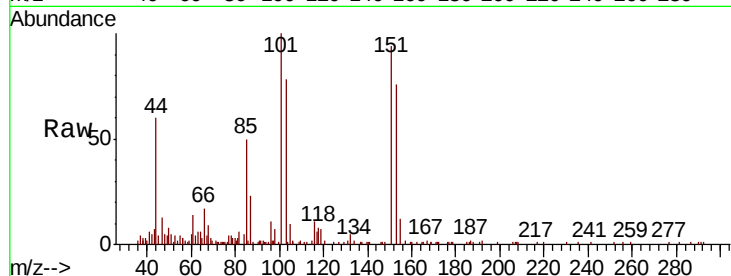
Tot Ion:101 Resp: 16079

Ion Ratio Lower Upper

101 100

85 47.6 35.5 53.3

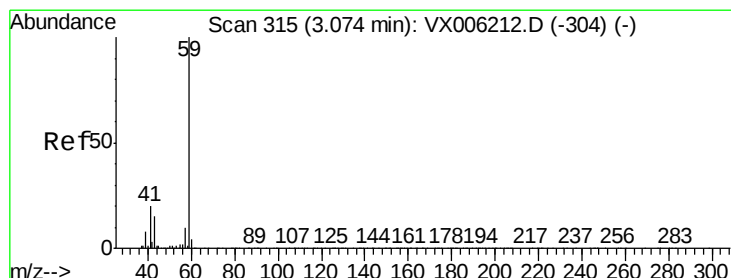
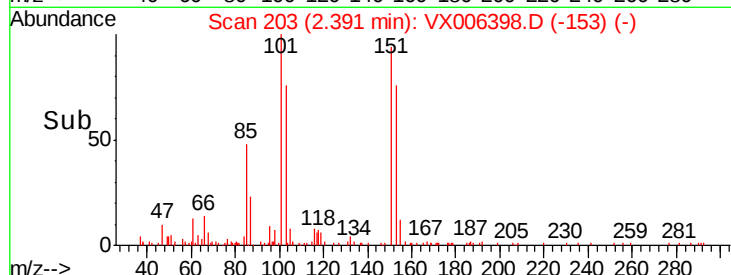
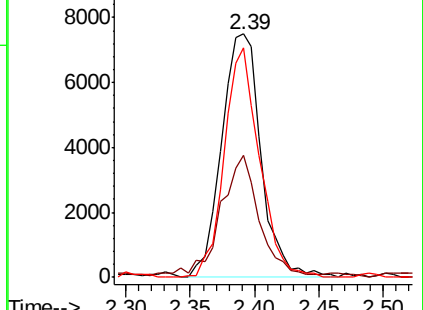
151 83.9 68.6 103.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.062 ug/l

RT: 3.07 min Scan# 315

Delta R.T. 0.00 min

Lab File: VX006398.D

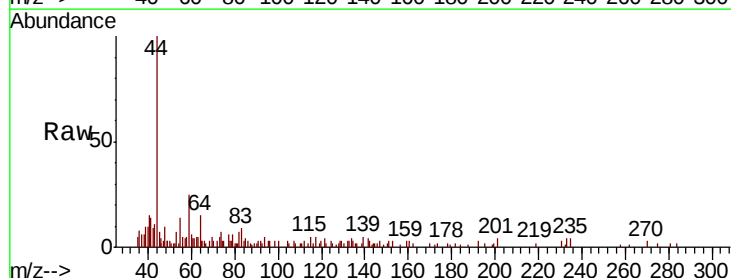
Acq: 11 Dec 2018 04:38

Tgt Ion: 59 Resp: 2023

Ion Ratio Lower Upper

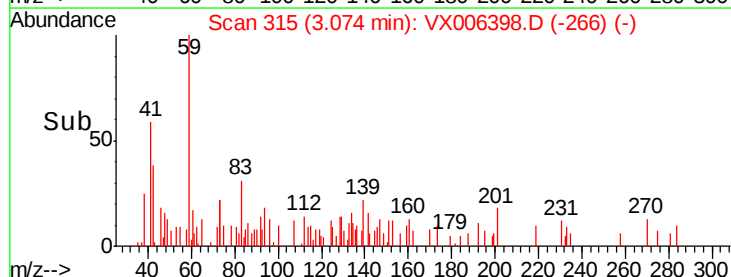
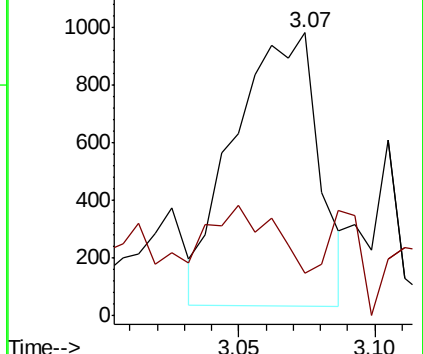
59 100

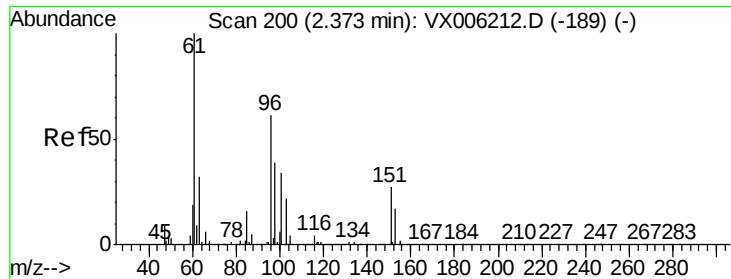
57 16.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.548 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

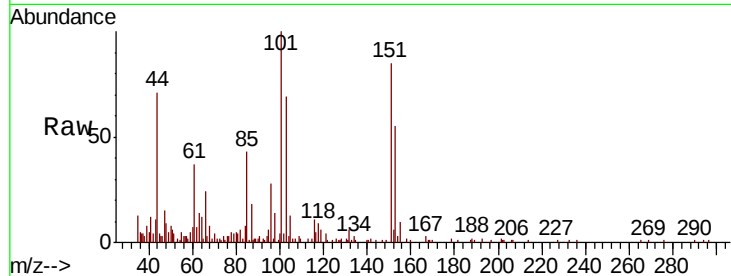
Tot Ion: 96 Resp: 3387

Ion Ratio Lower Upper

96 100

61 128.4 131.7 197.5#

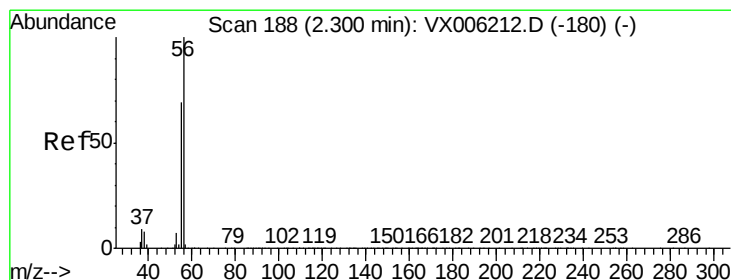
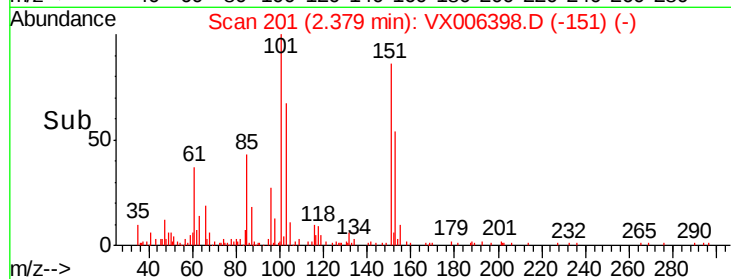
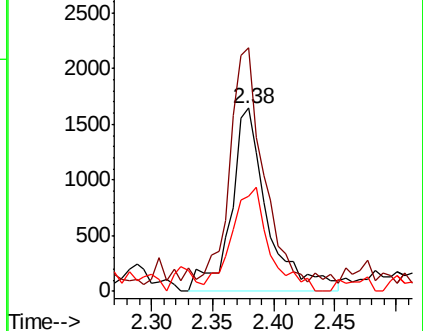
98 44.9 51.8 77.6#



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



#13

Acrolein

Concen: 0.211 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006398.D

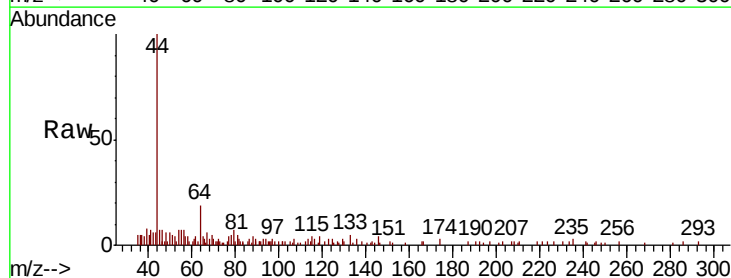
Acq: 11 Dec 2018 04:38

Tgt Ion: 56 Resp: 220

Ion Ratio Lower Upper

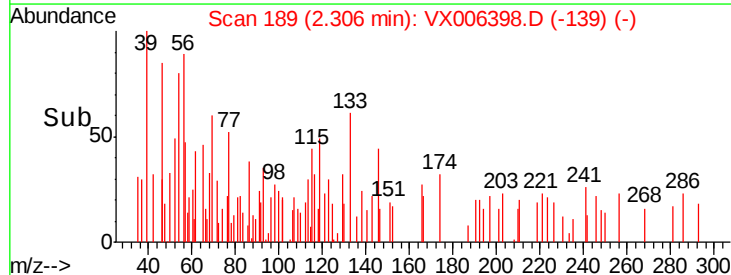
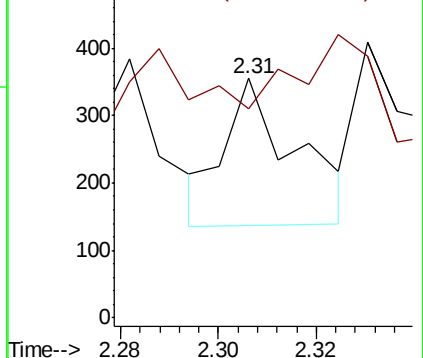
56 100

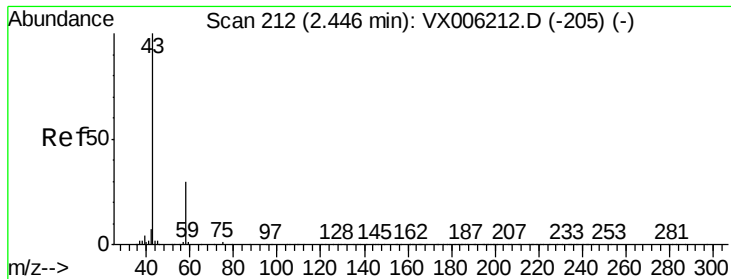
55 0.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

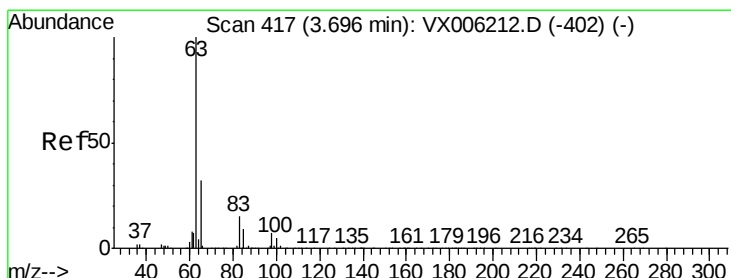
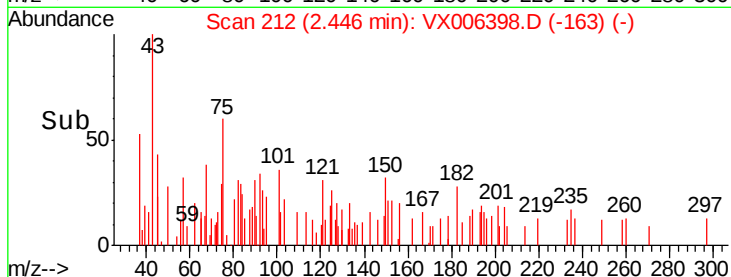
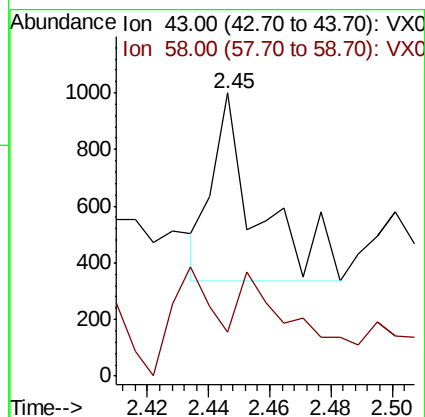
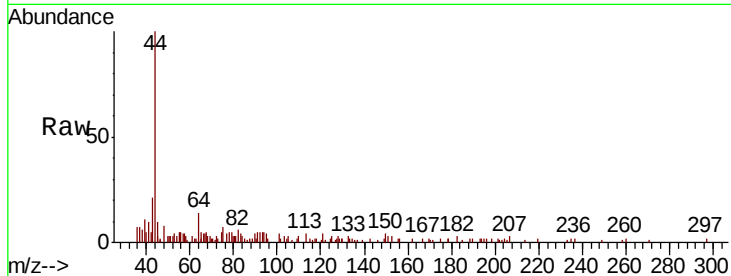




#16
Acetone
Concen: 0.207 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006398.D
Acq: 11 Dec 2018 04:38

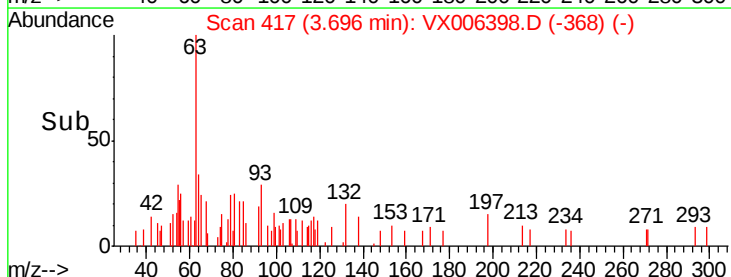
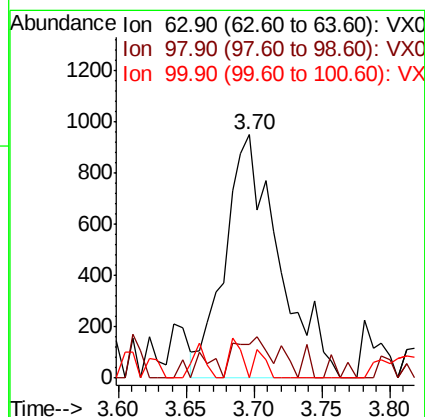
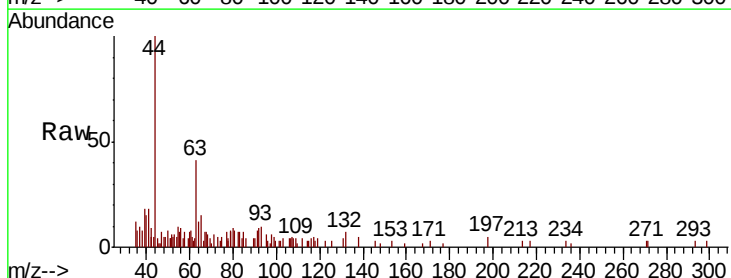
Instrument :
MSVOA_X
ClientSampleId :
RE-109D3-20181206

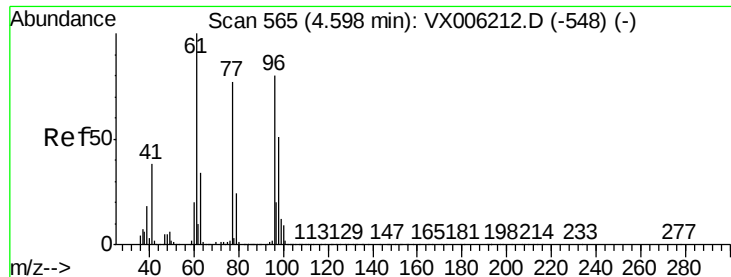
Tot Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
58 2.6 24.0 36.0#



#24
1,1-Dichloroethane
Concen: 0.240 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX006398.D
Acq: 11 Dec 2018 04:38

Tgt Ion: 63 Resp: 2611
Ion Ratio Lower Upper
63 100
98 13.9 3.8 11.4#
100 0.0 2.5 7.4#



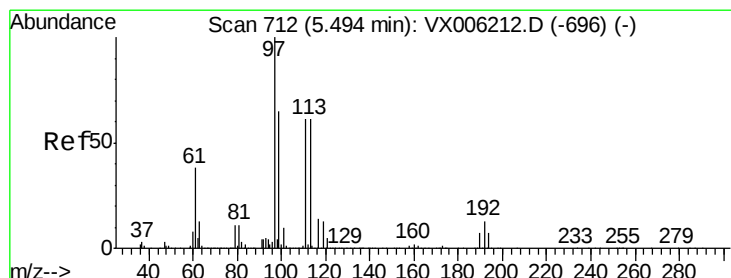
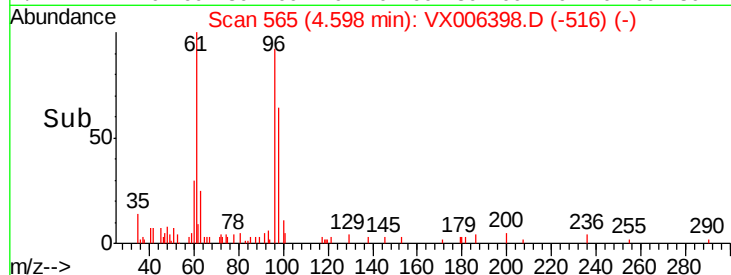
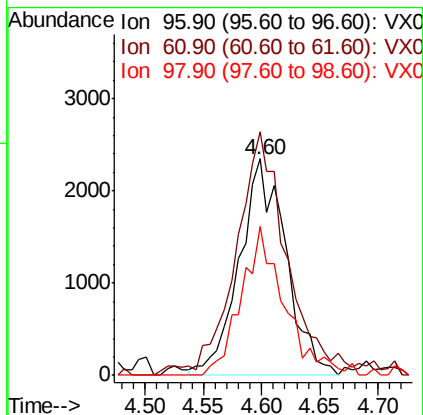
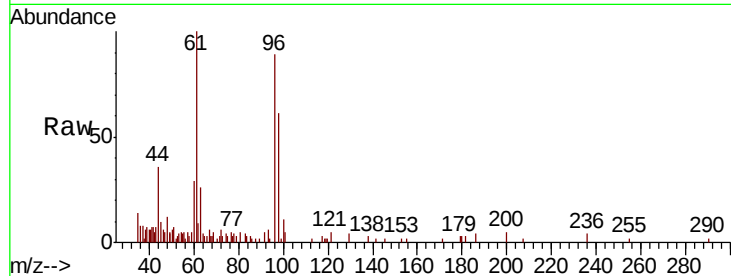


#27

cis-1,2-Dichloroethene
Concen: 0.887 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX006398.D
Acq: 11 Dec 2018 04:38

Instrument :
MSVOA_X
ClientSampleId :
RE-109D3-20181206

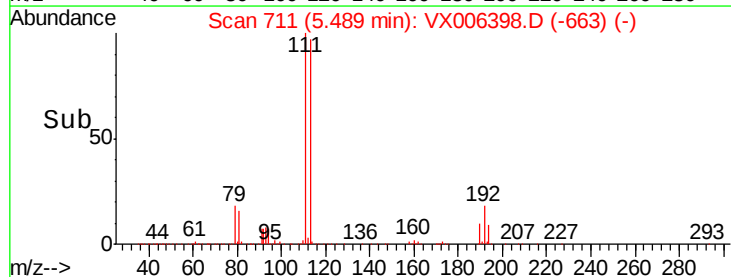
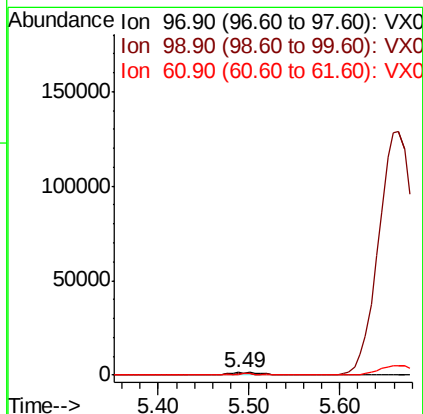
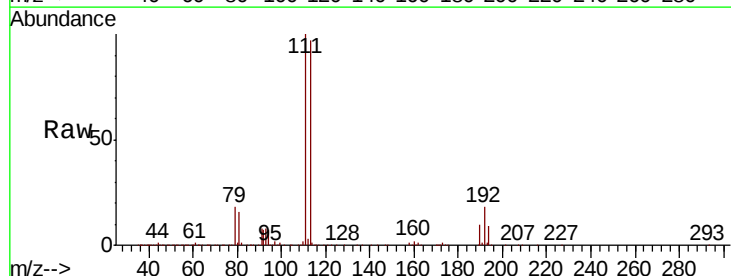
Tot Ion: 96 Resp: 6513
Ion Ratio Lower Upper
96 100
61 115.2 0.0 265.0
98 64.1 0.0 130.2

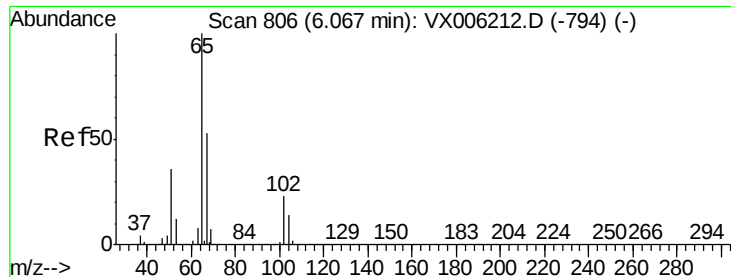


#32

1,1,1-Trichloroethane
Concen: 0.400 ug/l
RT: 5.49 min Scan# 711
Delta R.T. -0.01 min
Lab File: VX006398.D
Acq: 11 Dec 2018 04:38

Tgt Ion: 97 Resp: 4362
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 46.2 30.6 46.0#

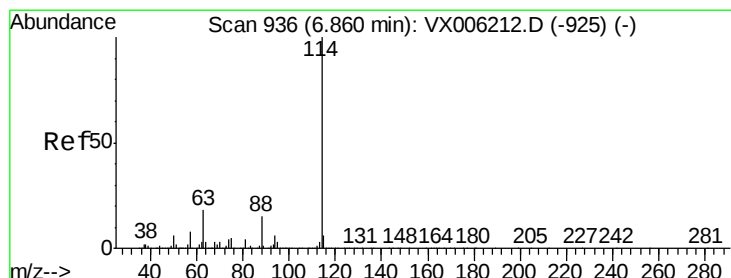
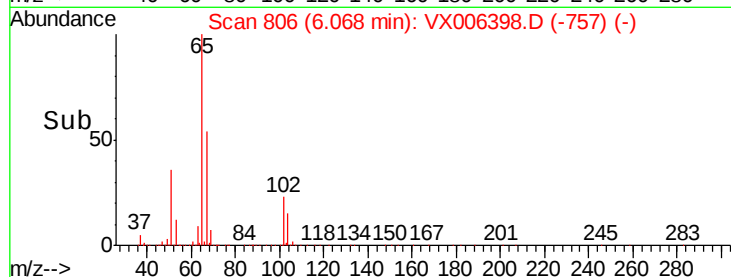
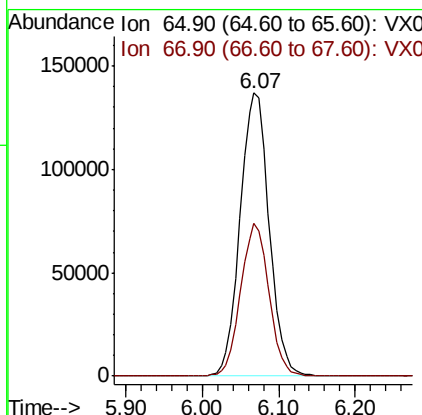
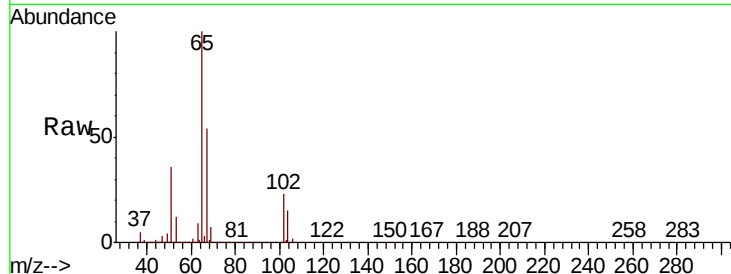




#33
 1,2-Dichloroethane-d4
 Concen: 51.736 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006398.D
 Acq: 11 Dec 2018 04:38

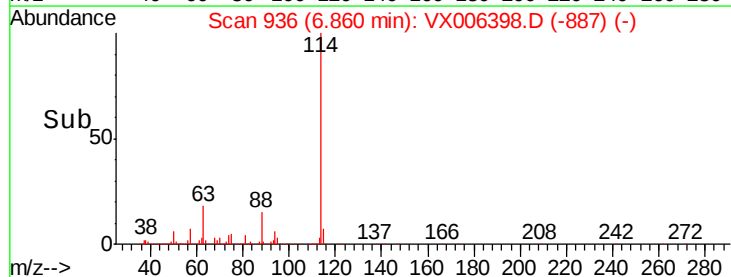
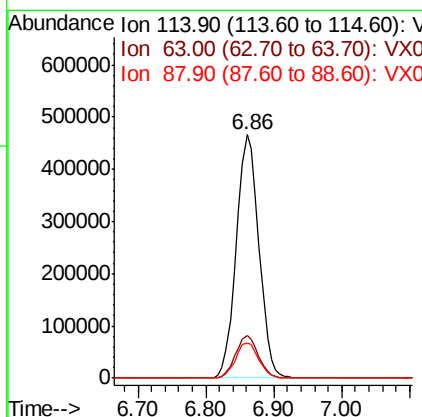
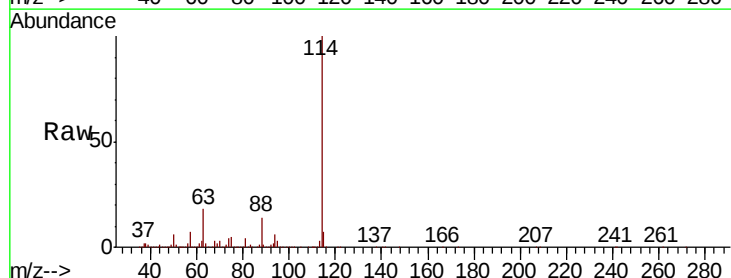
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-109D3-20181206

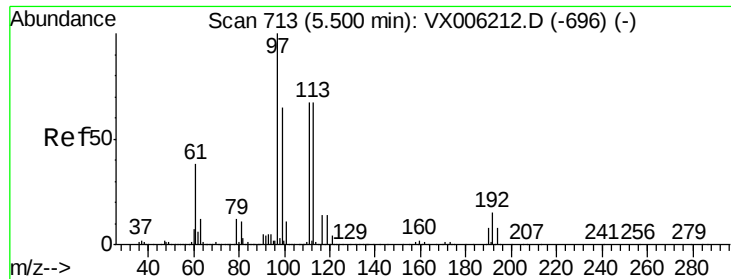
Tot Ion: 65 Resp: 360509
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006398.D
 Acq: 11 Dec 2018 04:38

Tgt Ion: 114 Resp: 1076404
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 36.6
 88 14.5 0.0 29.0





#35

Dibromofluoromethane

Concen: 47.214 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

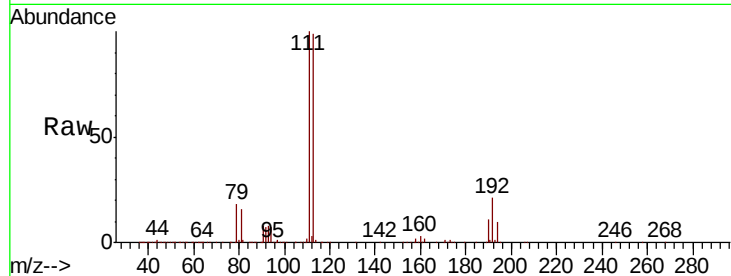
Tot Ion:113 Resp: 329049

Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

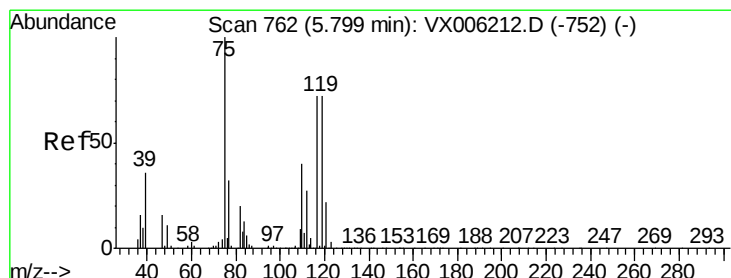
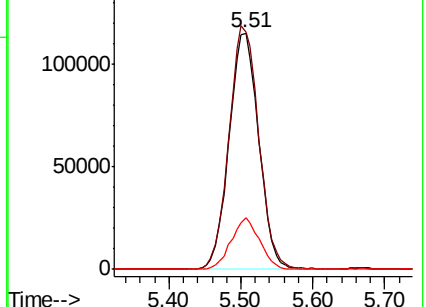
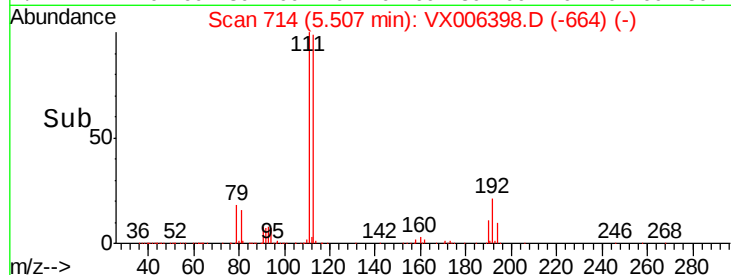
192 21.0 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.874 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

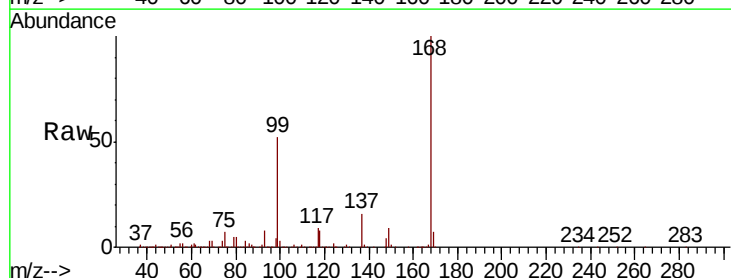
Tgt Ion: 75 Resp: 44178

Ion Ratio Lower Upper

75 100

110 10.1 20.4 61.3#

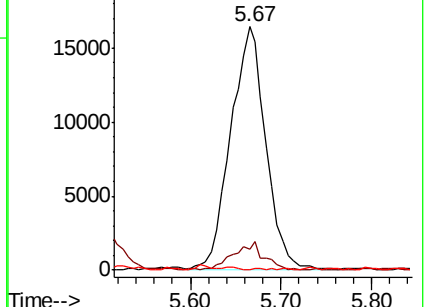
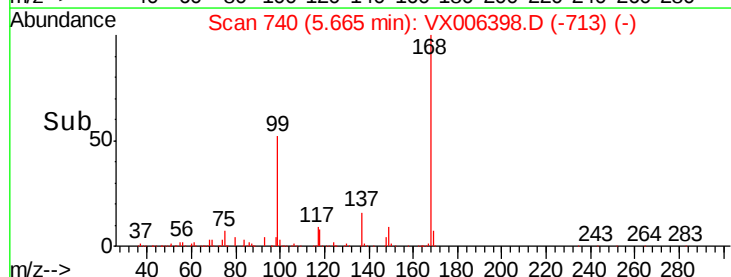
77 0.1 24.9 37.3#

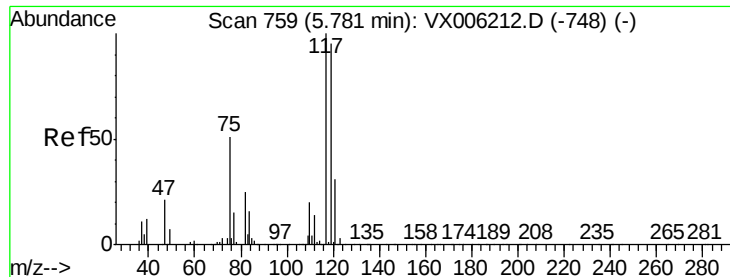


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.571 ug/l

RT: 5.78 min Scan# 759

Delta R.T. 0.00 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

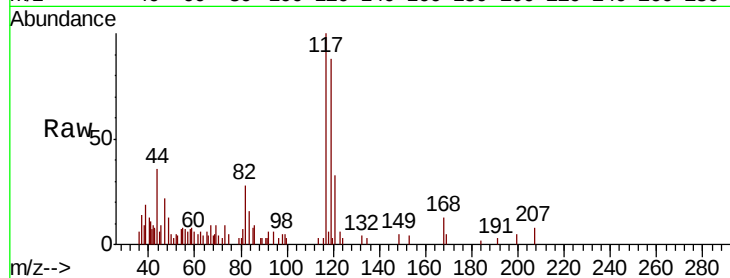
Tot Ion:117 Resp: 6085

Ion Ratio Lower Upper

117 100

119 78.2 75.8 113.8

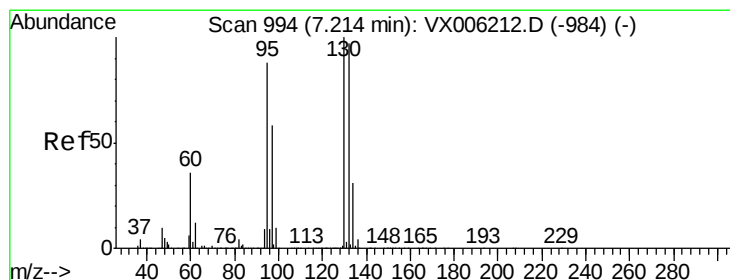
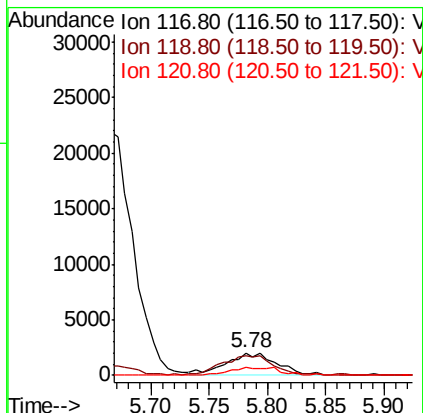
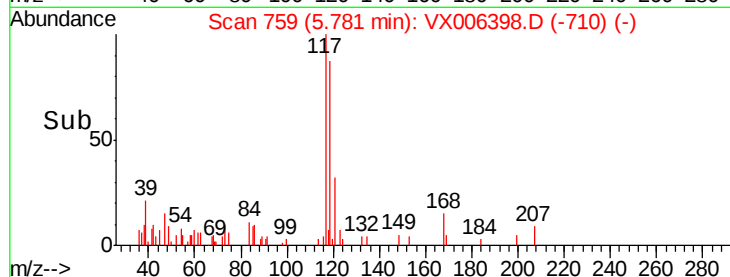
121 33.4 24.6 37.0



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



#44

Trichloroethene

Concen: 59.316 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006398.D

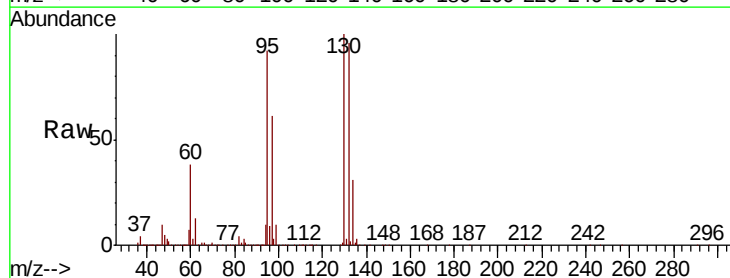
Acq: 11 Dec 2018 04:38

Tgt Ion:130 Resp: 487843

Ion Ratio Lower Upper

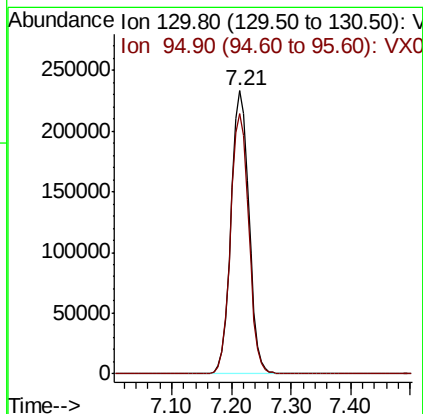
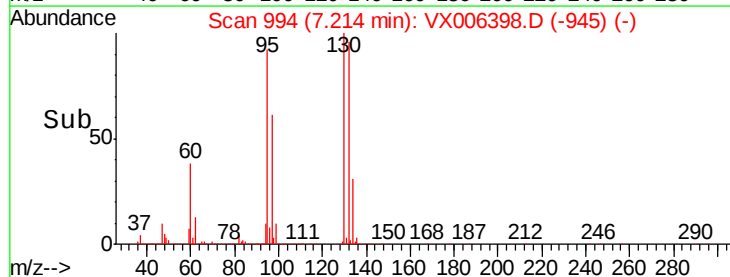
130 100

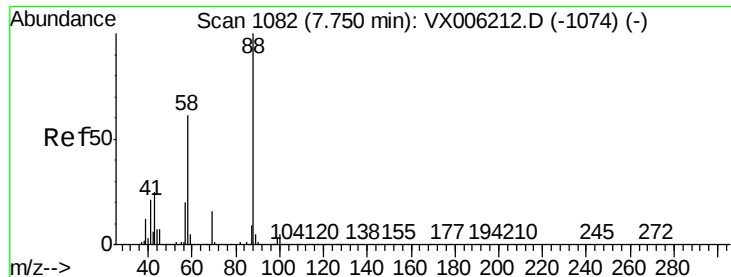
95 91.9 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 13.005 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

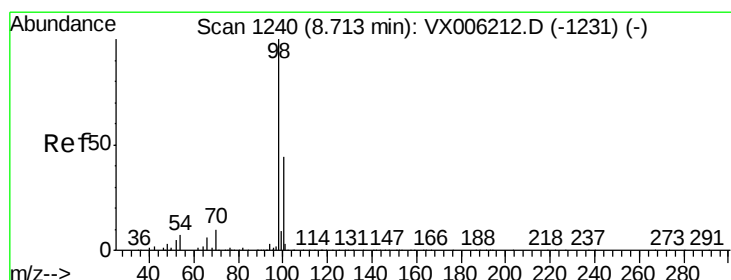
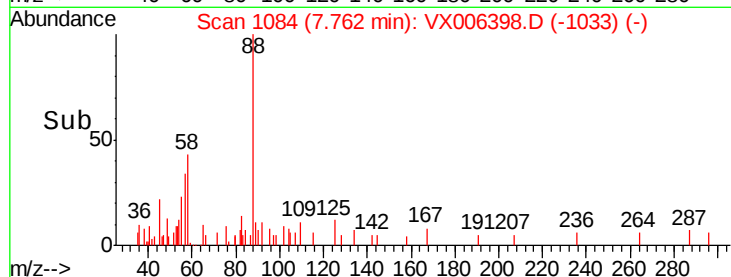
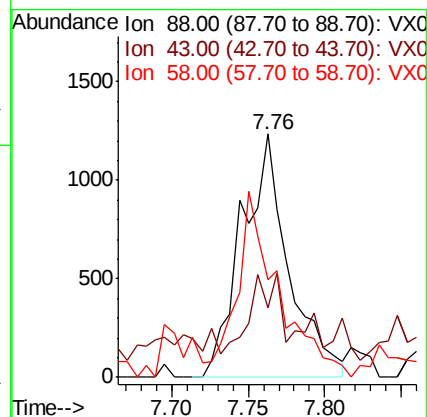
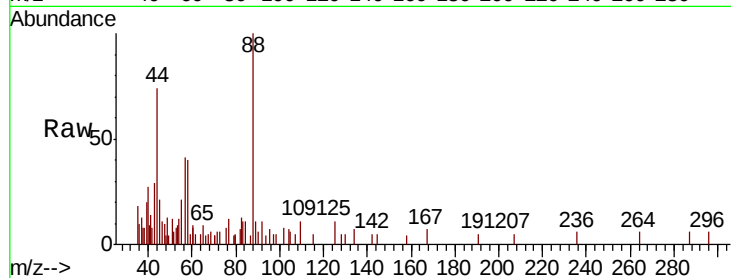
Tot Ion: 88 Resp: 2639

Ion Ratio Lower Upper

88 100

43 22.9 23.2 34.8#

58 67.5 51.4 77.0



#50

Toluene-d8

Concen: 49.955 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006398.D

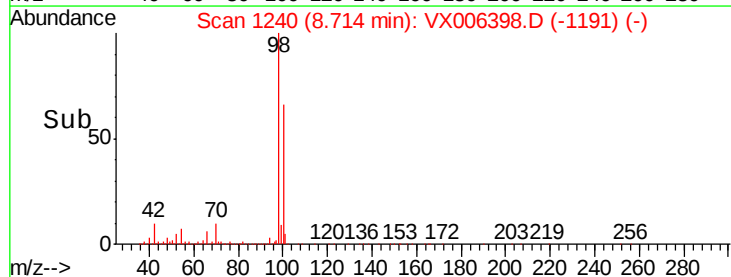
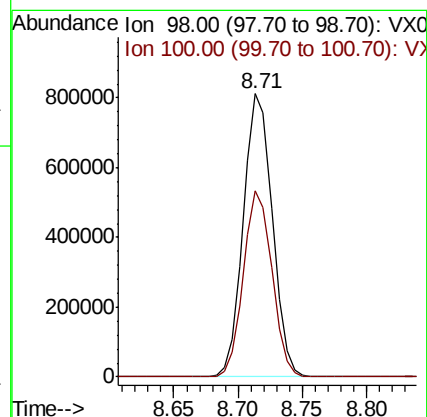
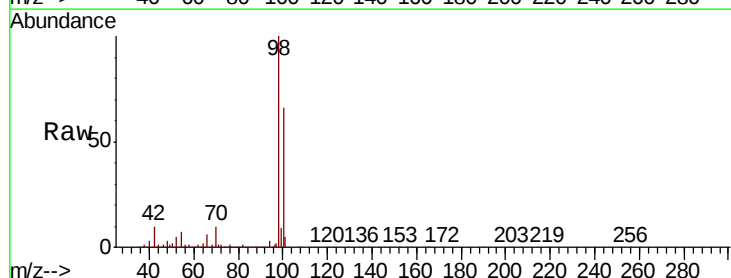
Acq: 11 Dec 2018 04:38

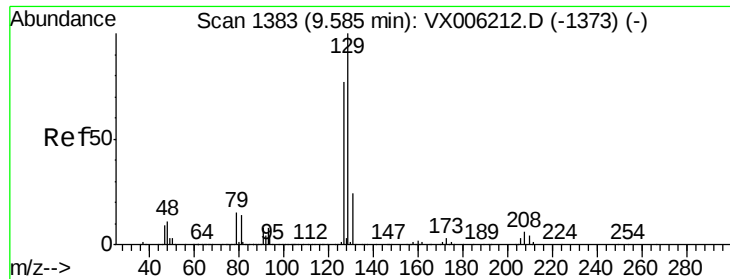
Tgt Ion: 98 Resp: 1266361

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2





#60

Dibromochloromethane

Concen: 0.549 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

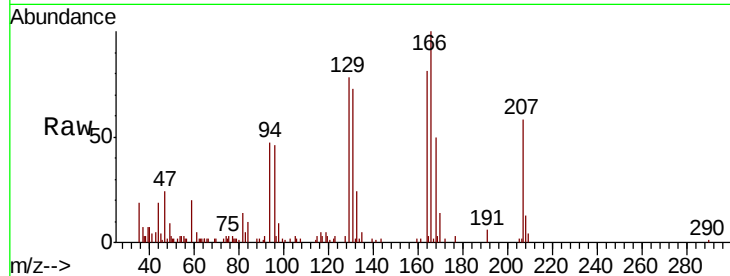
RE-109D3-20181206

Tot Ion:129 Resp: 4908

Ion Ratio Lower Upper

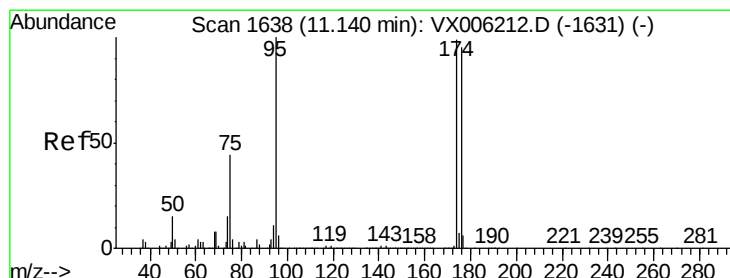
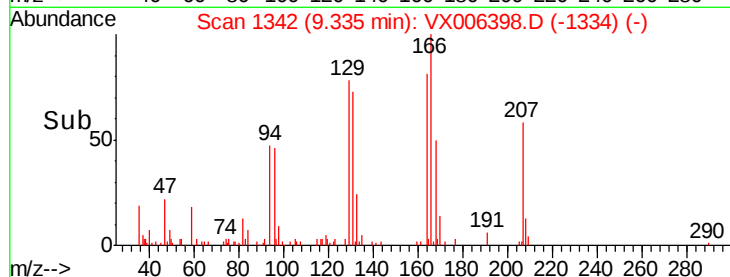
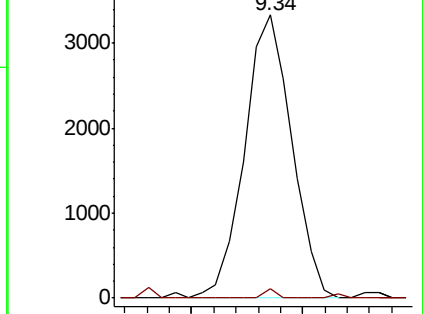
129 100

127 0.8 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.263 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

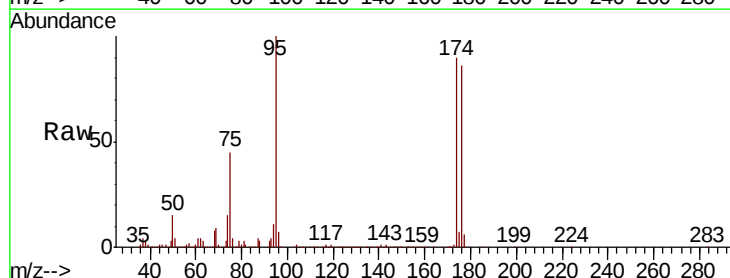
Tgt Ion: 95 Resp: 470598

Ion Ratio Lower Upper

95 100

174 85.9 0.0 187.0

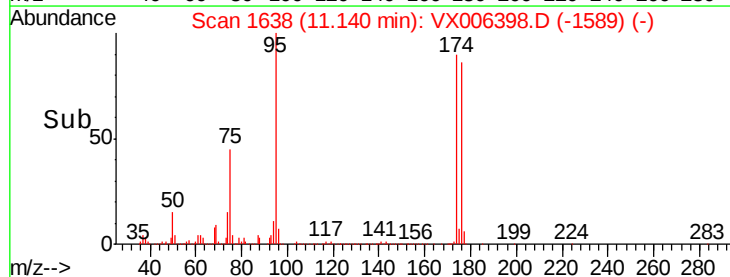
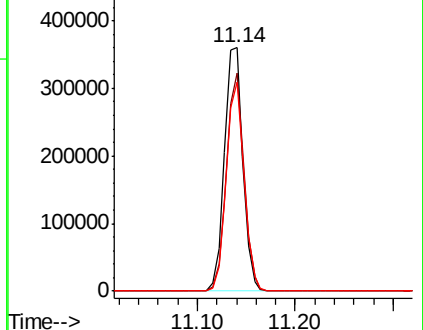
176 82.8 0.0 181.8

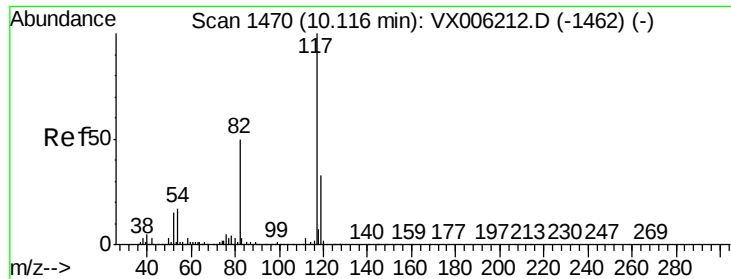


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

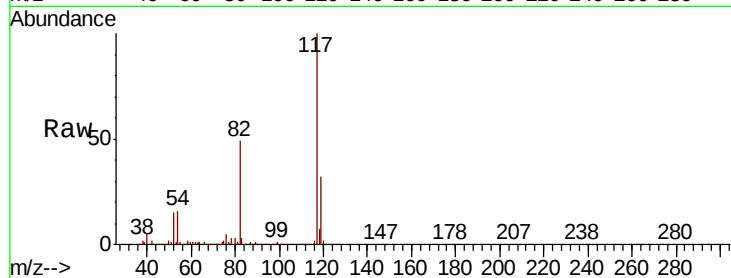




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006398.D
Acq: 11 Dec 2018 04:38

Instrument :
MSVOA_X
ClientSampleId :
RE-109D3-20181206

Tot Ion	Ratio	Lower	Upper
117	100		
82	48.8	39.6	59.4
119	31.6	26.3	39.5

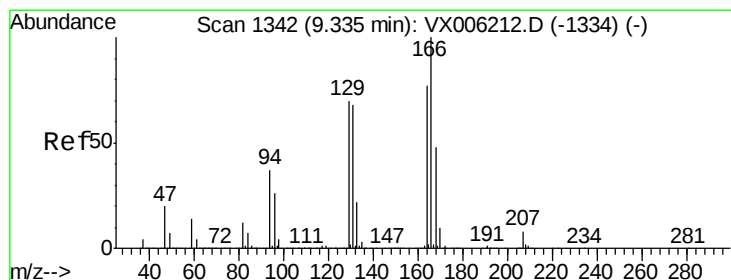
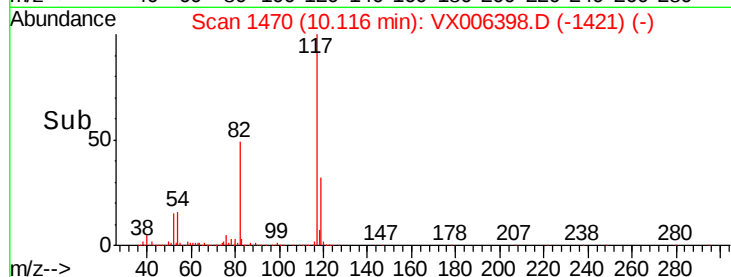
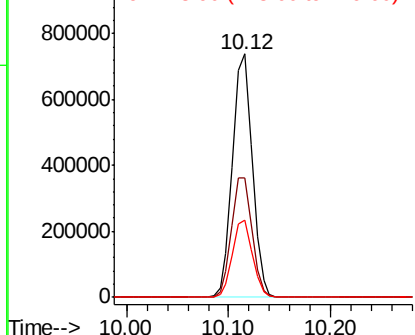


Abundance

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



#64
Tetrachloroethene
Concen: 0.718 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006398.D
Acq: 11 Dec 2018 04:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.3	104.2	156.2
129	96.1	72.6	108.8
131	90.0	70.3	105.5

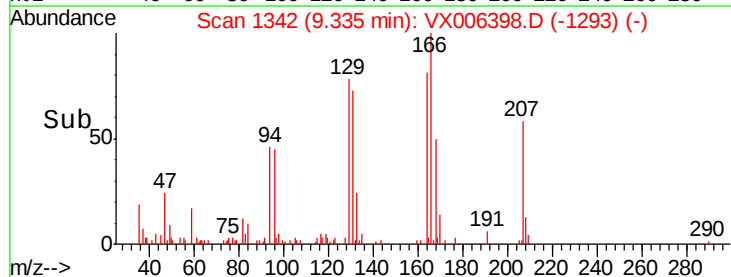
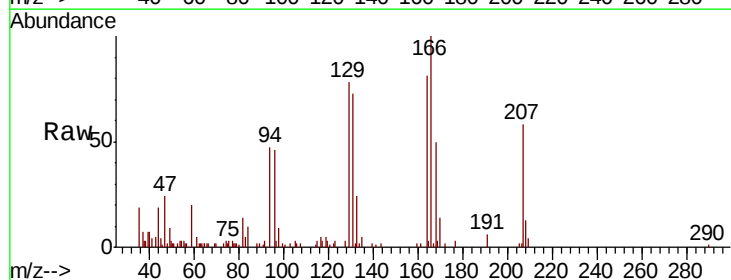
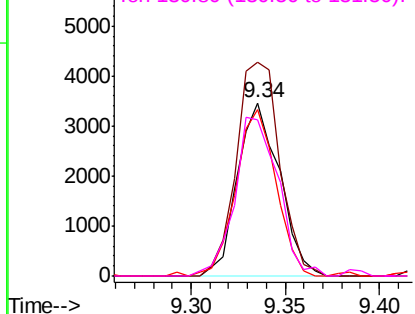
Abundance

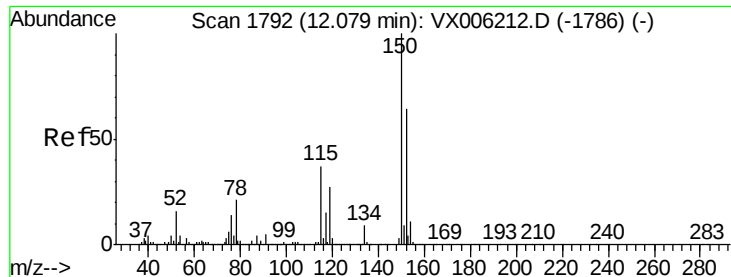
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

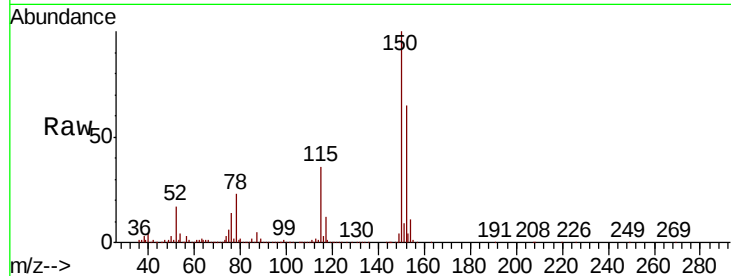
Tot Ion:152 Resp: 469261

Ion Ratio Lower Upper

152 100

115 56.5 39.0 116.9

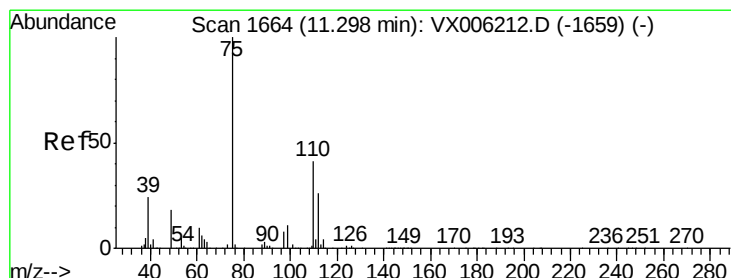
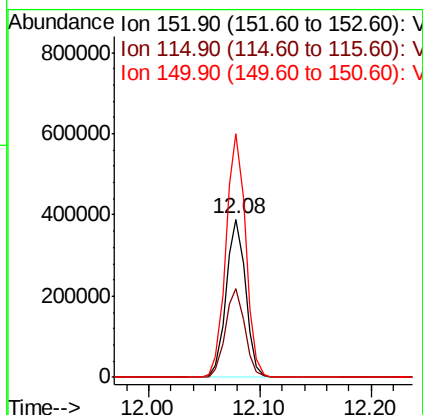
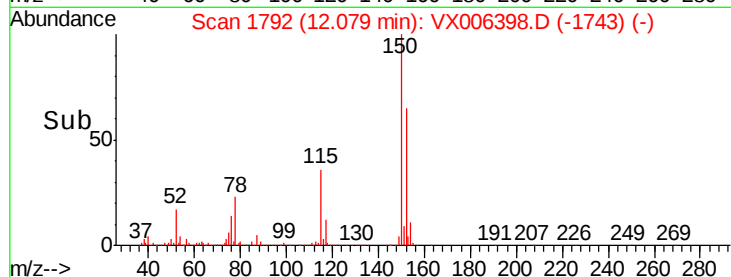
150 156.4 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.737 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006398.D

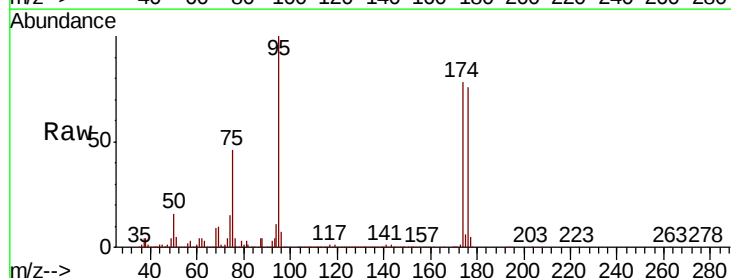
Acq: 11 Dec 2018 04:38

Tgt Ion: 75 Resp: 214994

Ion Ratio Lower Upper

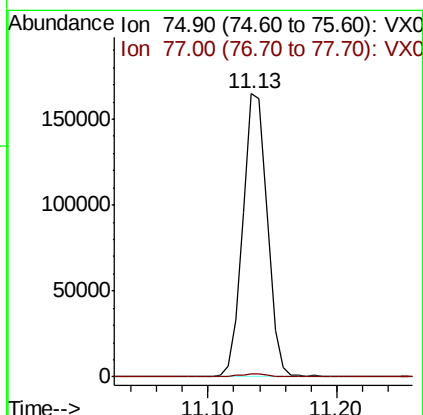
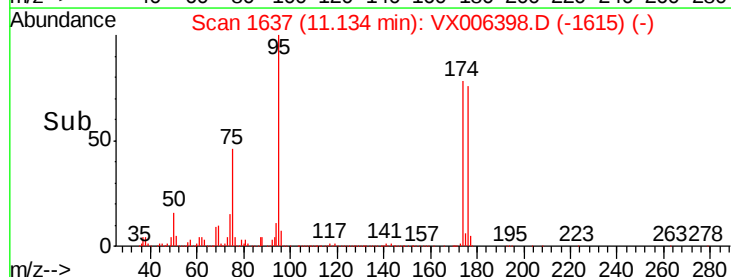
75 100

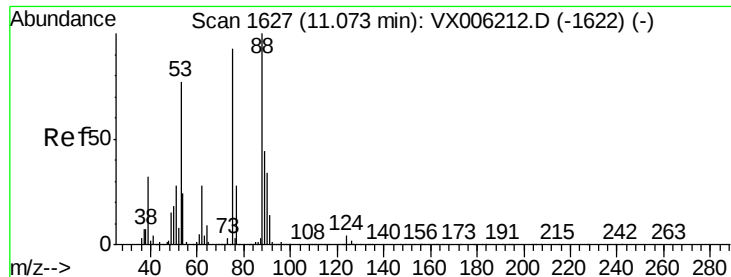
77 1.2 19.9 59.7#



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: 55.703 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006398.D

Acq: 11 Dec 2018 04:38

Instrument :

MSVOA_X

ClientSampleId :

RE-109D3-20181206

Tot Ion: 75 Resp: 214994

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.1 44.2 66.4#

