

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080919\
 Data File : VX011416.D
 Acq On : 09 Aug 2019 17:39
 Operator : JC/SP
 Sample : K4278-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0692

Quant Time: Aug 11 00:03:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	215172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	316544	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279367	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	131650	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	112836	52.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.14%	
35) Dibromofluoromethane	5.49	113	96283	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	
50) Toluene-d8	8.71	98	368410	47.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.46%	
62) 4-Bromofluorobenzene	11.13	95	123375	44.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.60%	

Target Compounds

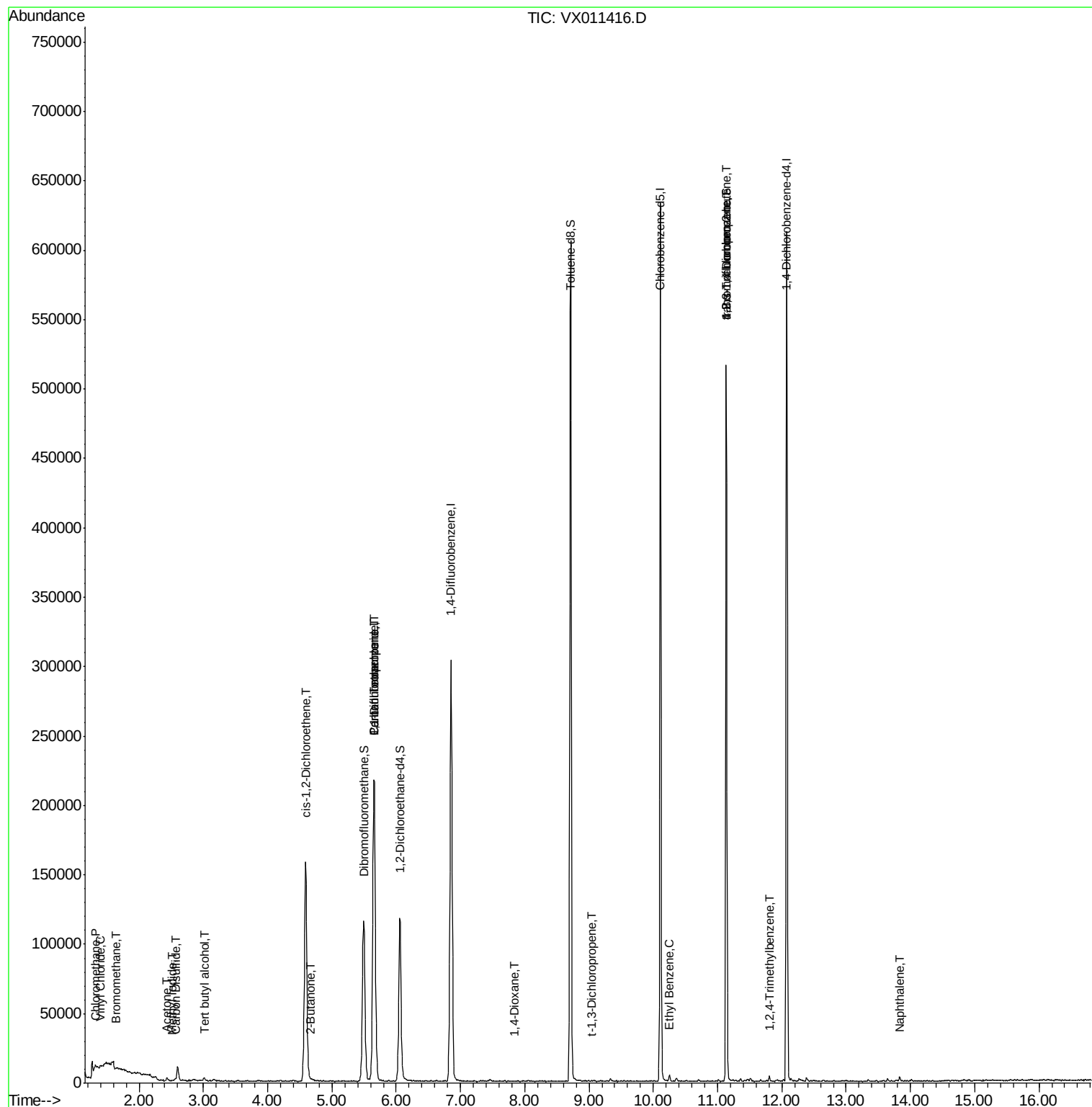
					Qvalue
3) Chloromethane	1.32	50	946	0.507 ug/l	94
4) Vinyl Chloride	1.40	62	589	0.287 ug/l #	1
5) Bromomethane	1.65	94	880	0.601 ug/l #	79
6) Chloroethane	1.93	64	330	Below Cal	89
10) Methyl Iodide	2.51	142	830	0.333 ug/l	97
11) Tert butyl alcohol	3.01	59	1246	2.906 ug/l #	82
16) Acetone	2.43	43	2537	2.460 ug/l	93
17) Carbon Disulfide	2.57	76	2233	0.486 ug/l #	87
25) 2-Butanone	4.67	43	353	0.241 ug/l #	46
27) cis-1,2-Dichloroethene	4.59	96	105825	44.365 ug/l	92
36) 1,1-Dichloropropene	5.65	75	14561	5.269 ug/l #	49
38) Carbon Tetrachloride	5.66	117	20915	7.522 ug/l #	14
49) 1,4-Dioxane	7.85	88	22	0.364 ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	113	2.873 ug/l #	43
67) Ethyl Benzene	10.25	91	2292	0.228 ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	64268	26.806 ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	64268	69.626 ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1651	0.220 ug/l	98
95) Naphthalene	13.83	128	2118	0.246 ug/l #	91

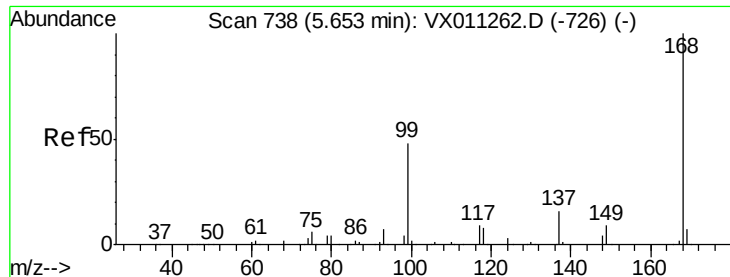
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011416.D

Acq: 09 Aug 2019 17:39

Instrument :

MSVOA_X

ClientSampleId :

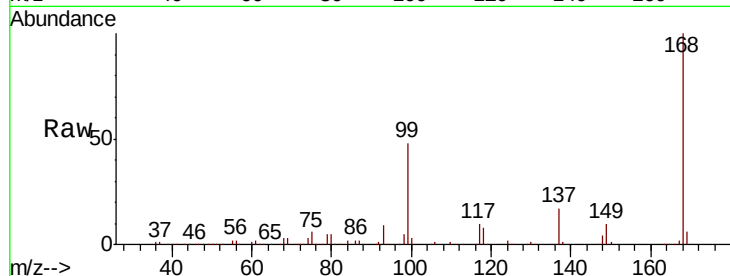
Z3-0692

Tgt Ion:168 Resp: 215172

Ion Ratio Lower Upper

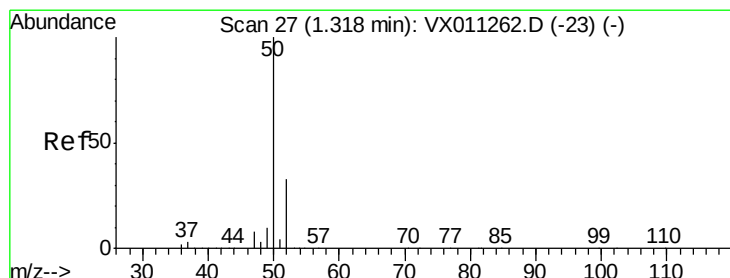
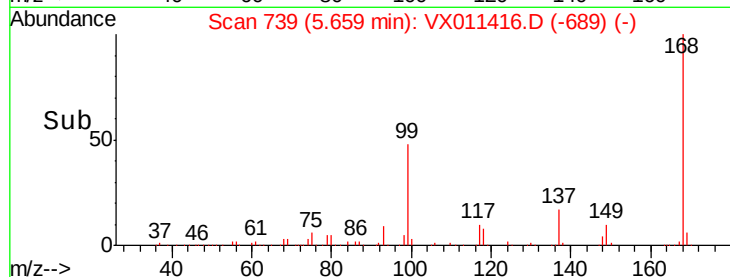
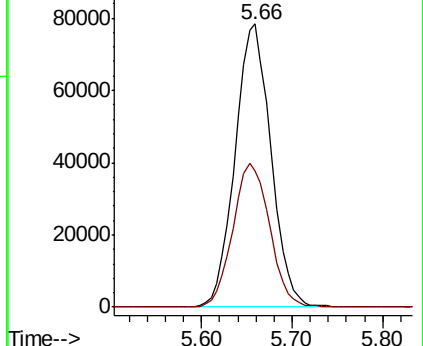
168 100

99 48.2 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.507 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011416.D

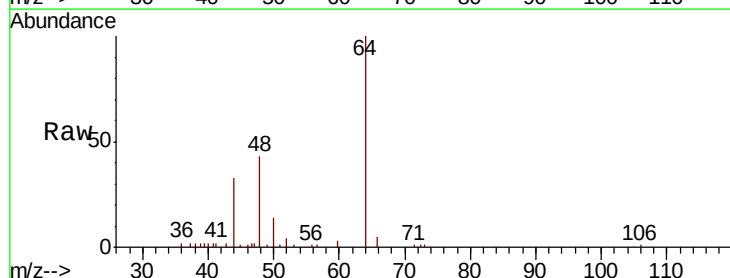
Acq: 09 Aug 2019 17:39

Tgt Ion: 50 Resp: 946

Ion Ratio Lower Upper

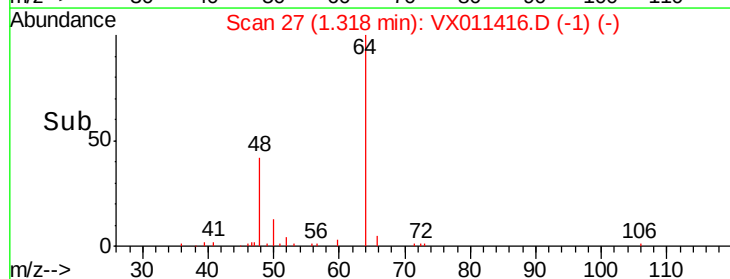
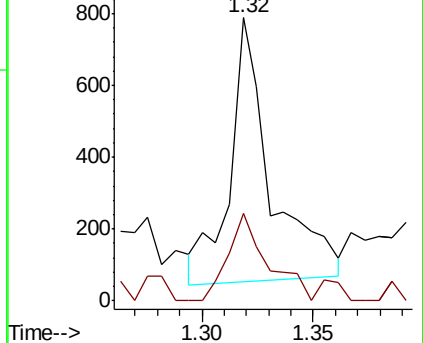
50 100

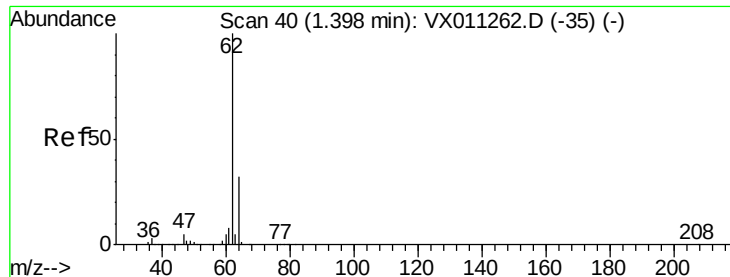
52 36.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.287 ug/l

RT: 1.40 min Scan# 40

Delta R.T. 0.00 min

Lab File: VX011416.D

Acq: 09 Aug 2019 17:39

Instrument :

MSVOA_X

ClientSampled :

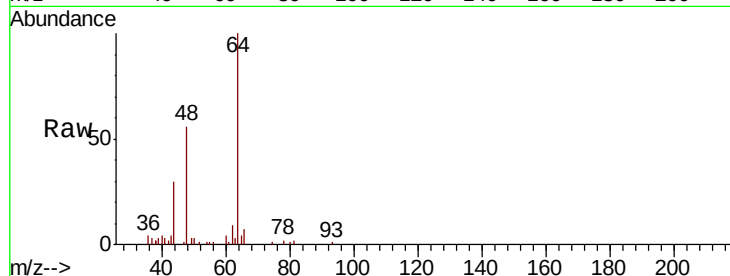
Z3-0692

Tgt Ion: 62 Resp: 589

Ion Ratio Lower Upper

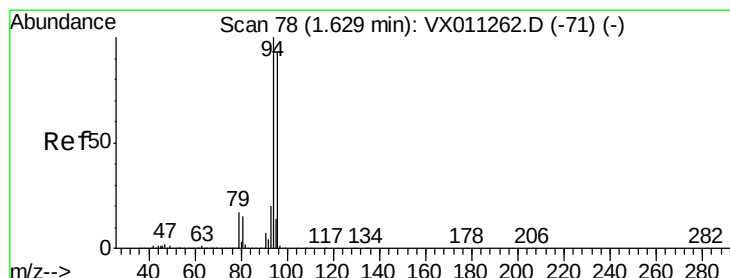
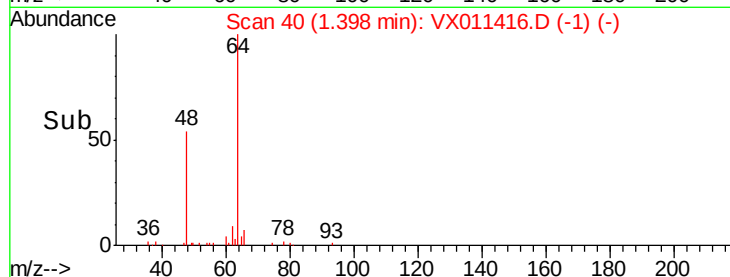
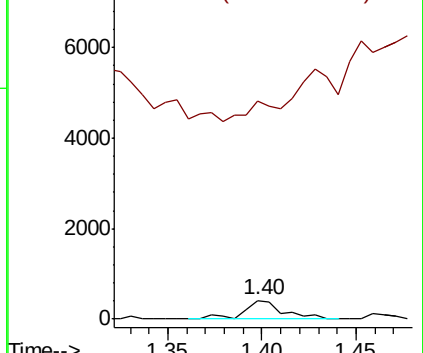
62 100

64 98.3 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.601 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011416.D

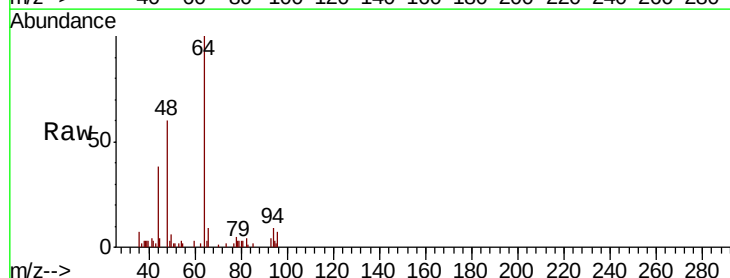
Acq: 09 Aug 2019 17:39

Tgt Ion: 94 Resp: 880

Ion Ratio Lower Upper

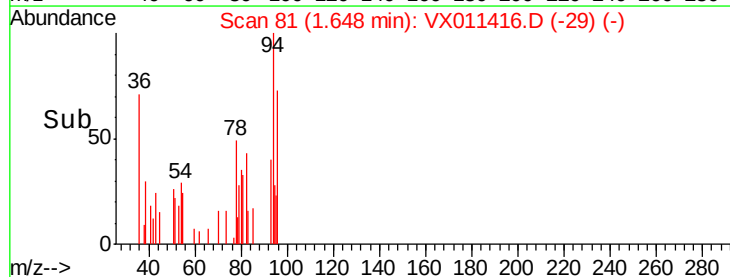
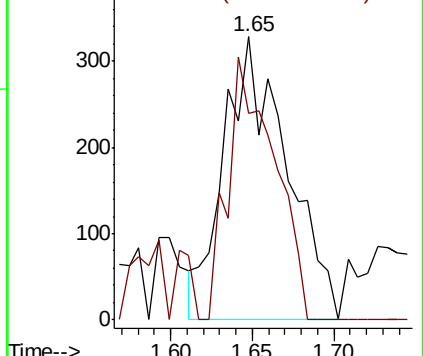
94 100

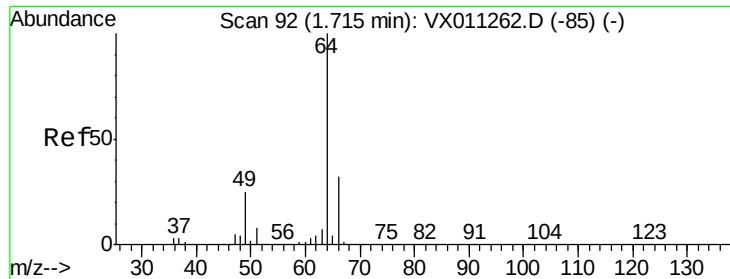
96 73.2 74.6 112.0#



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: 1.93 min Scan# 127

Delta R.T. 0.21 min

Lab File: VX011416.D

Acq: 09 Aug 2019 17:39

Instrument :

MSVOA_X

ClientSampleId :

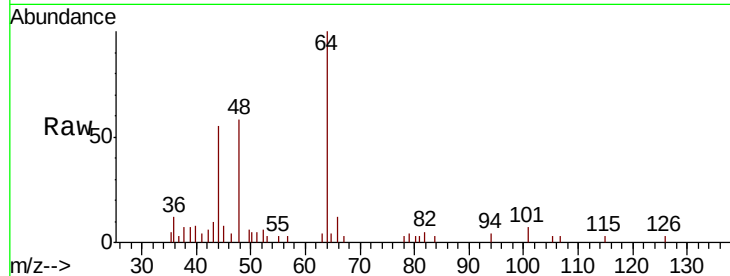
Z3-0692

Tgt Ion: 64 Resp: 330

Ion Ratio Lower Upper

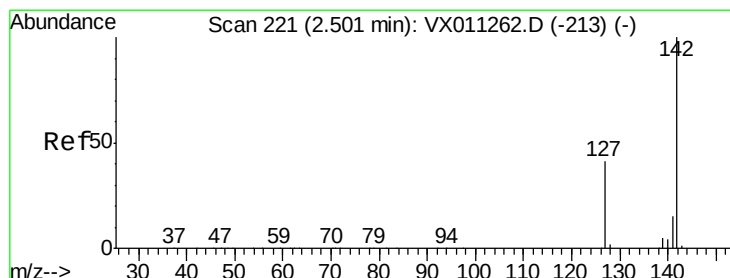
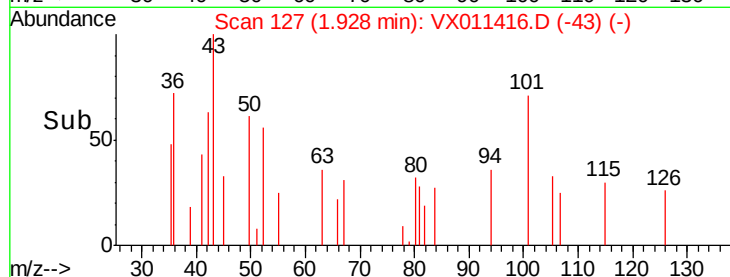
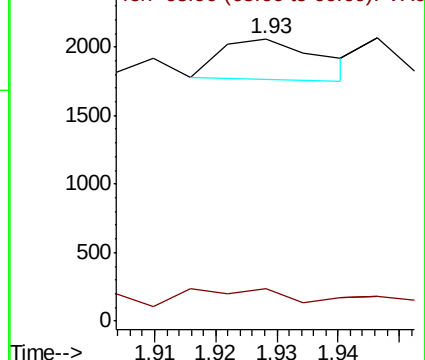
64 100

66 25.5 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.333 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011416.D

Acq: 09 Aug 2019 17:39

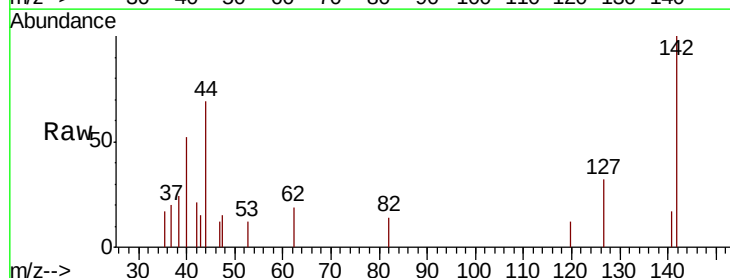
Tgt Ion: 142 Resp: 830

Ion Ratio Lower Upper

142 100

127 43.6 33.8 50.8

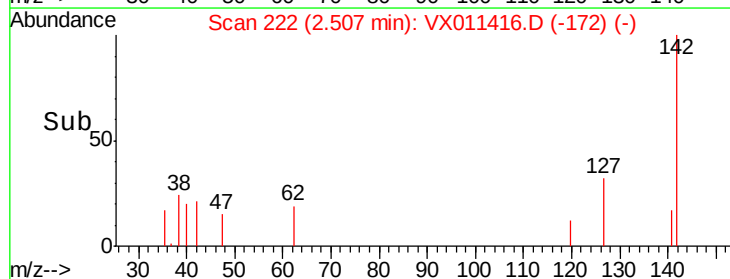
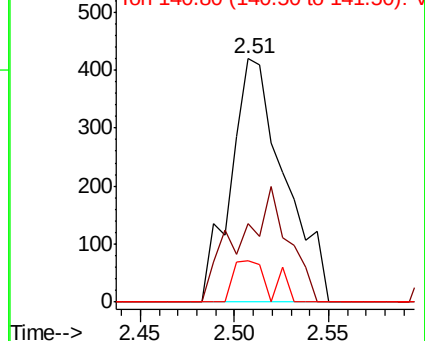
141 11.6 11.4 17.2

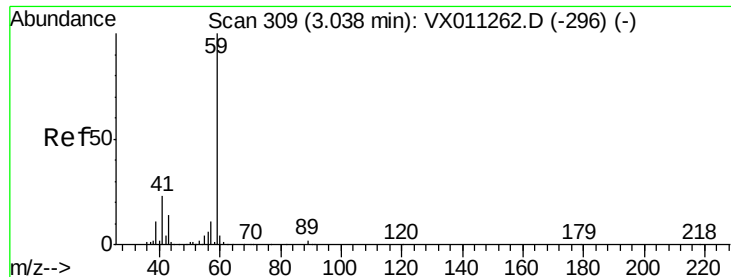


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

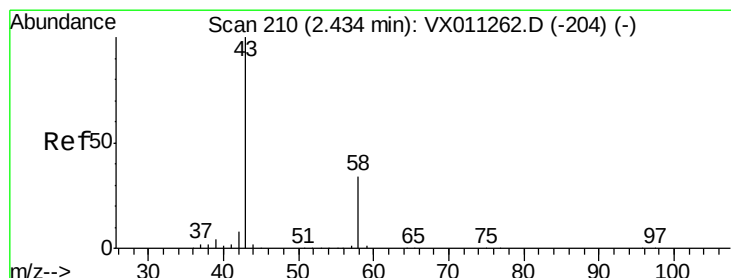
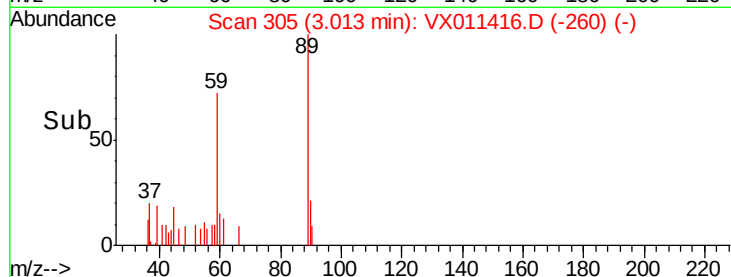
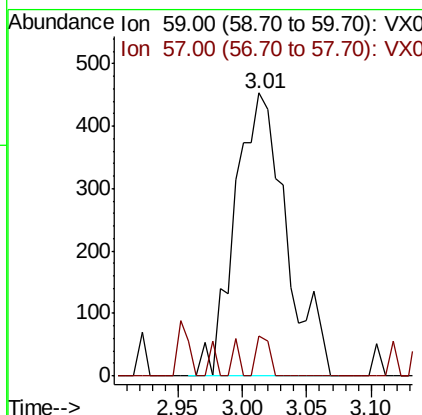
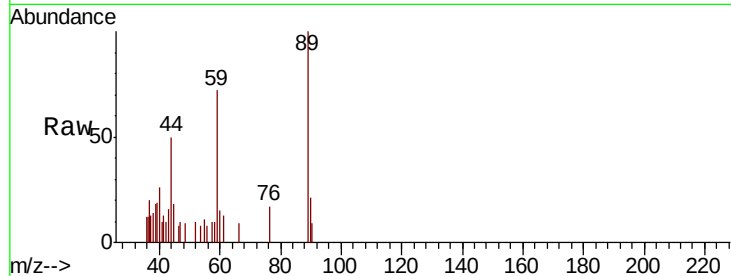




#11
Tert butyl alcohol
Concen: 2.906 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

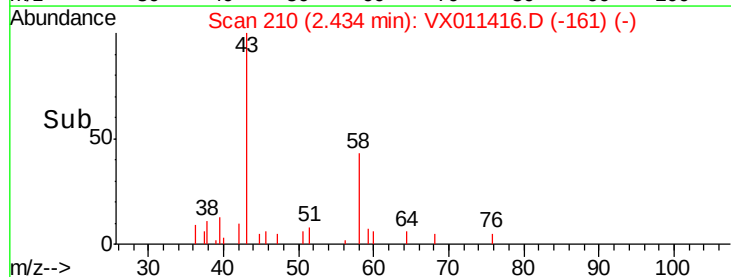
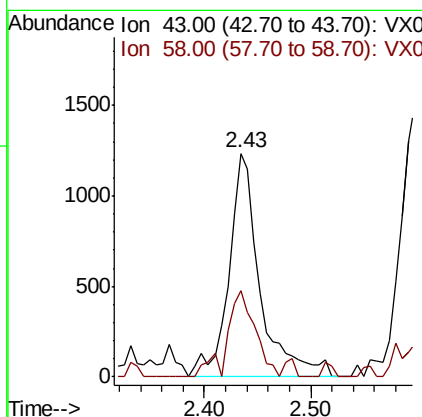
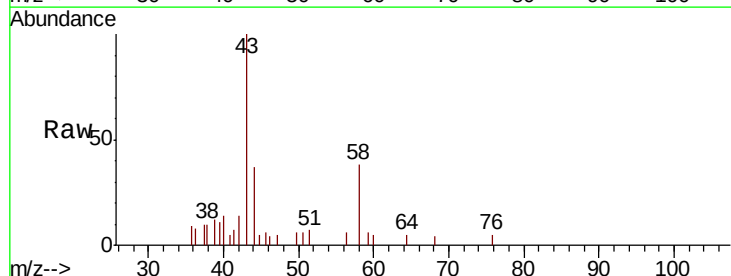
Instrument :
MSVOA_X
ClientSampled :
Z3-0692

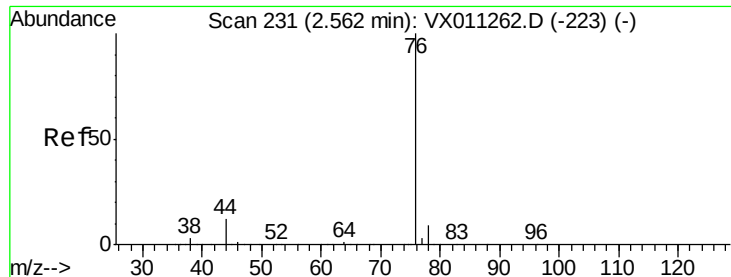
Tgt Ion: 59 Resp: 1246
Ion Ratio Lower Upper
59 100
57 3.5 8.3 12.5#



#16
Acetone
Concen: 2.460 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion: 43 Resp: 2537
Ion Ratio Lower Upper
43 100
58 38.5 27.4 41.0

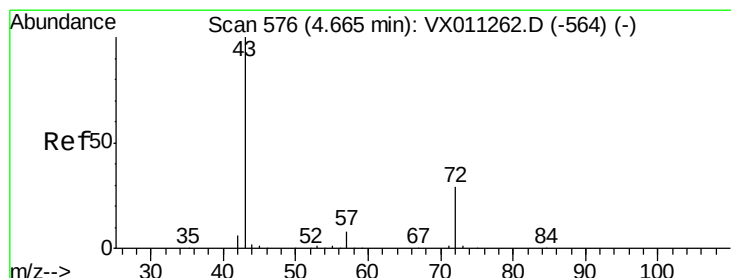
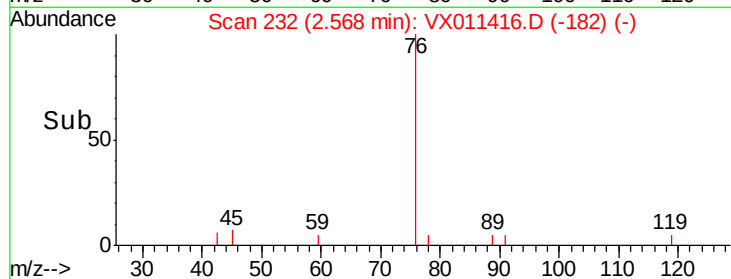
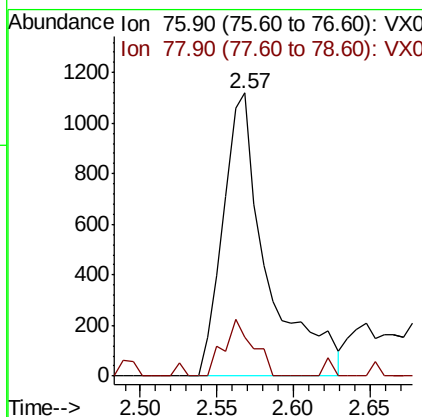
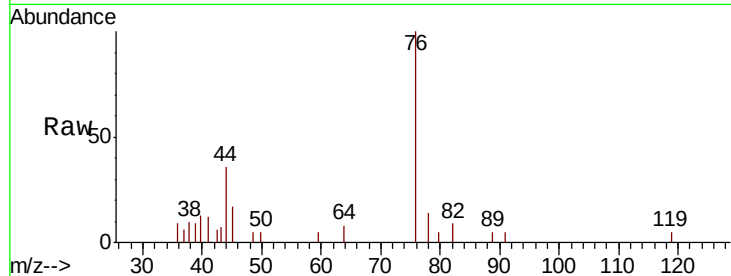




#17
Carbon Disulfide
Concen: 0.486 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

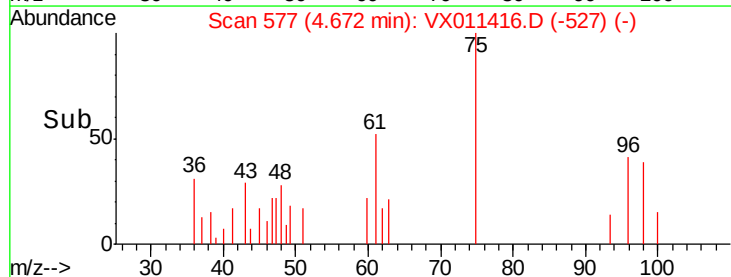
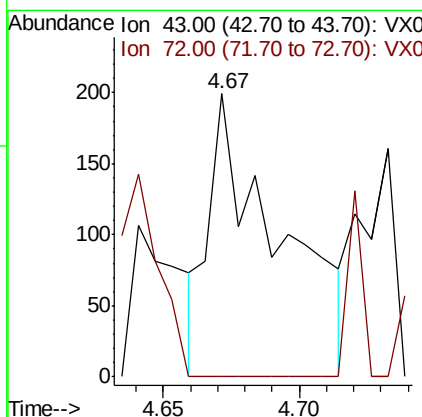
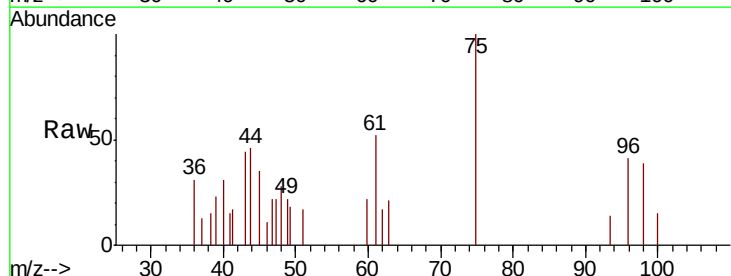
Instrument :
MSVOA_X
ClientSampled :
Z3-0692

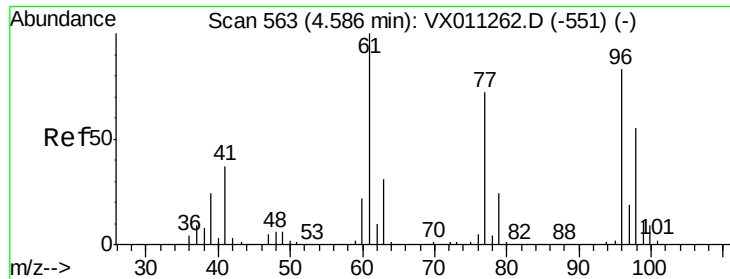
Tgt Ion: 76 Resp: 2233
Ion Ratio Lower Upper
76 100
78 13.9 7.4 11.0#



#25
2-Butanone
Concen: 0.241 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.01 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion: 43 Resp: 353
Ion Ratio Lower Upper
43 100
72 0.0 23.2 34.8#



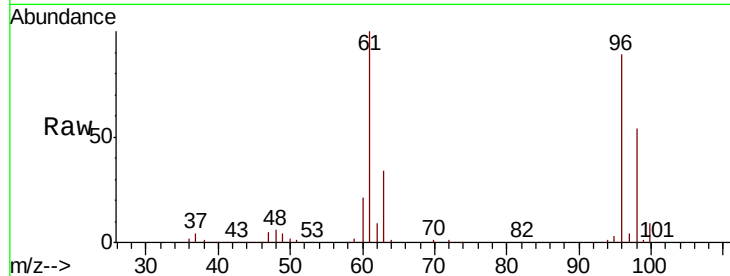


#27

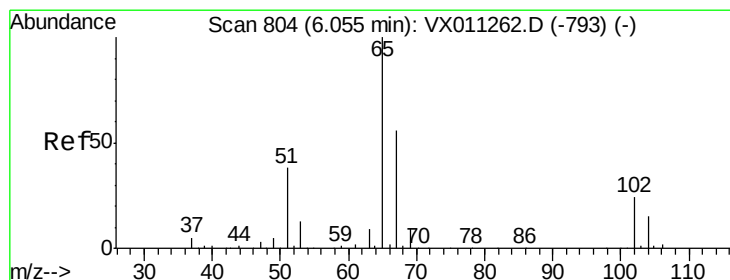
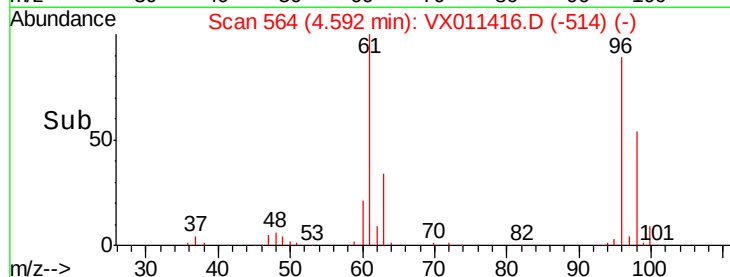
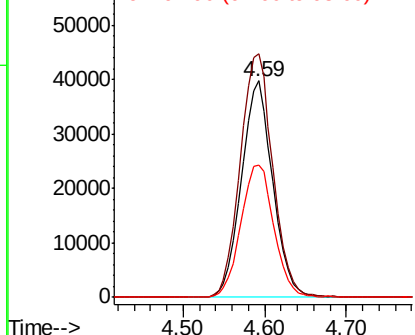
cis-1,2-Dichloroethene
 Concen: 44.365 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. 0.01 min
 Lab File: VX011416.D
 Acq: 09 Aug 2019 17:39

Instrument :
 MSVOA_X
 ClientSampled :
 Z3-0692

Tgt Ion: 96 Resp: 105825
 Ion Ratio Lower Upper
 96 100
 61 117.1 0.0 260.2
 98 64.6 0.0 133.2



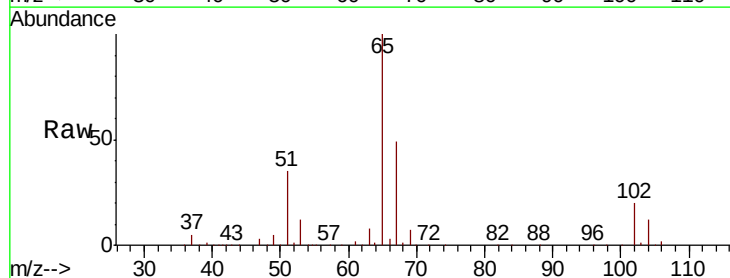
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



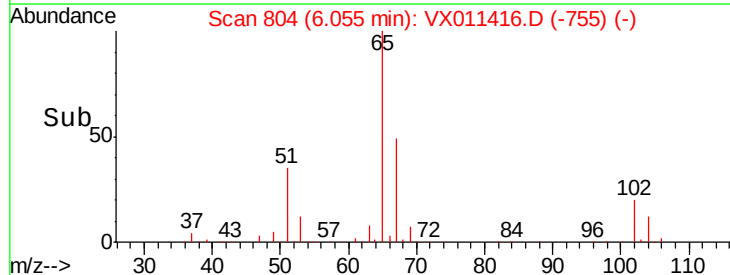
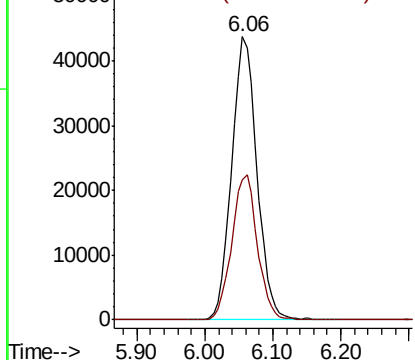
#33

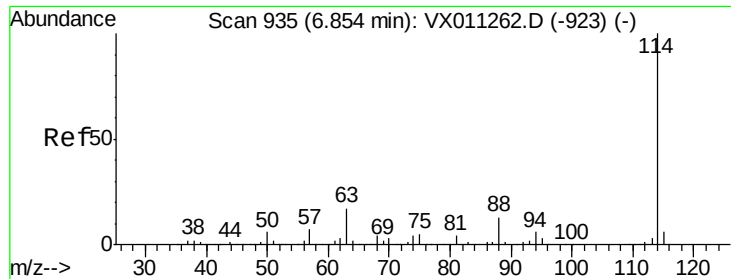
1,2-Dichloroethane-d4
 Concen: 52.073 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011416.D
 Acq: 09 Aug 2019 17:39

Tgt Ion: 65 Resp: 112836
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 110.6



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

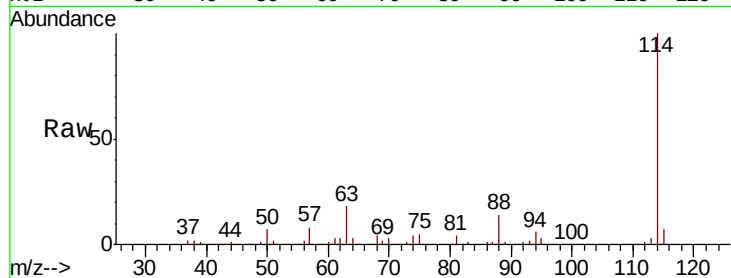




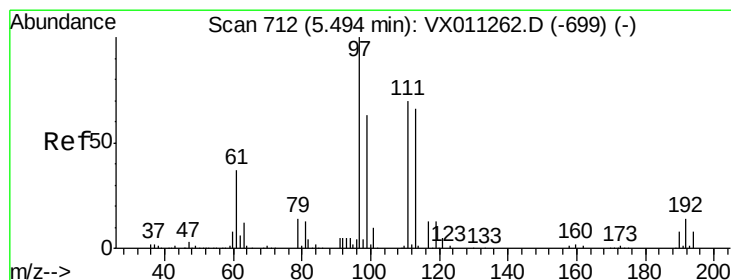
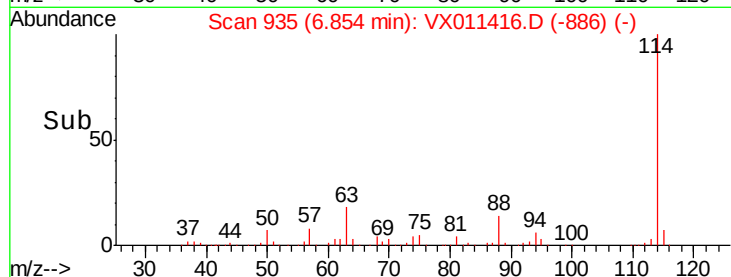
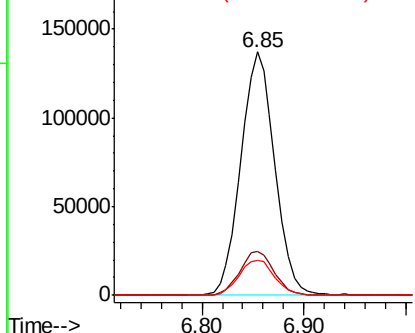
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Instrument :
MSVOA_X
ClientSampleId :
Z3-0692

Tgt Ion:114 Resp: 316544
Ion Ratio Lower Upper
114 100
63 17.9 0.0 34.0
88 14.1 0.0 26.4

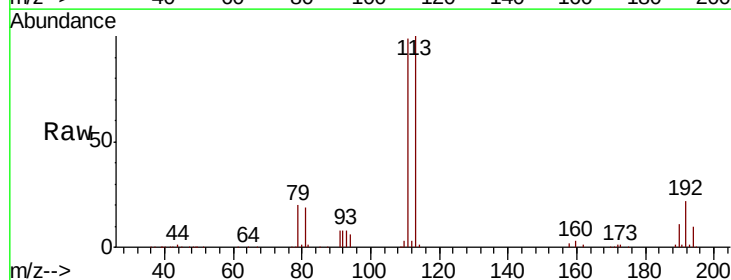


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

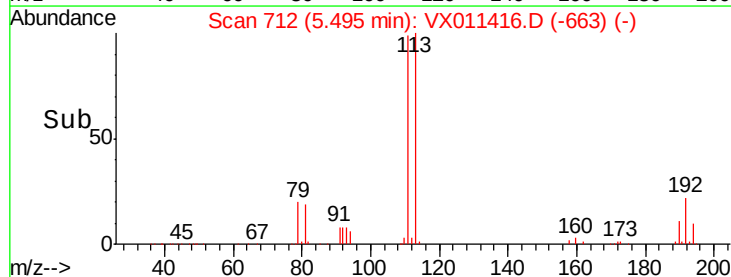
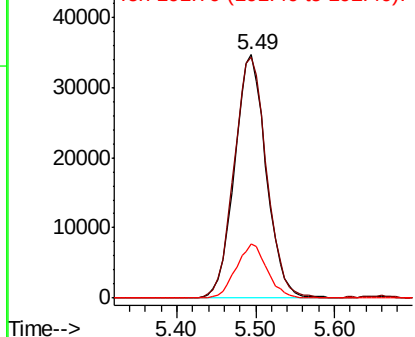


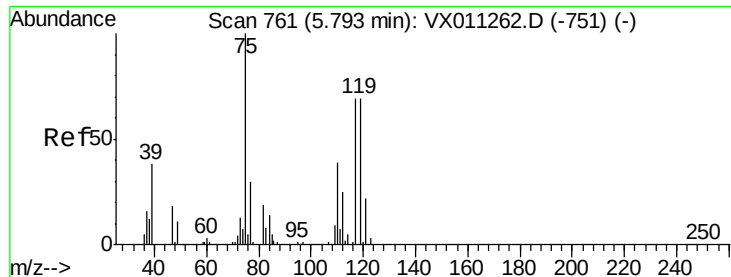
#35
Dibromofluoromethane
Concen: 46.589 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion:113 Resp: 96283
Ion Ratio Lower Upper
113 100
111 102.0 81.9 122.9
192 21.8 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

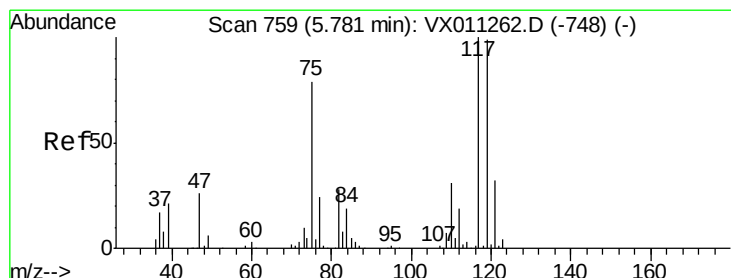
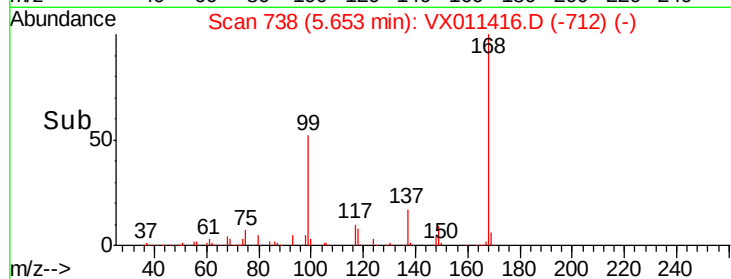
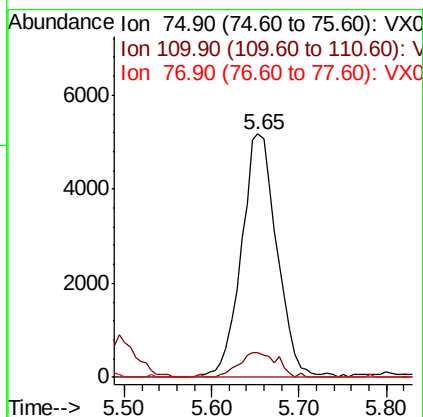
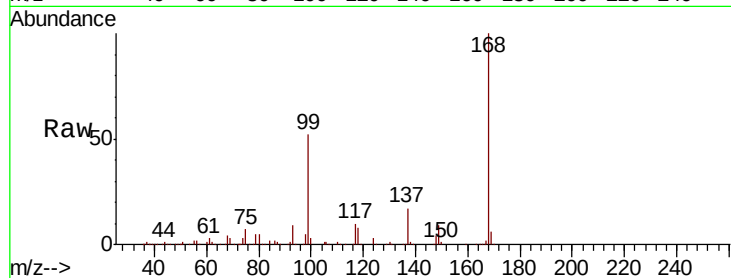




#36
 1,1-Dichloropropene
 Concen: 5.269 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011416.D
 Acq: 09 Aug 2019 17:39

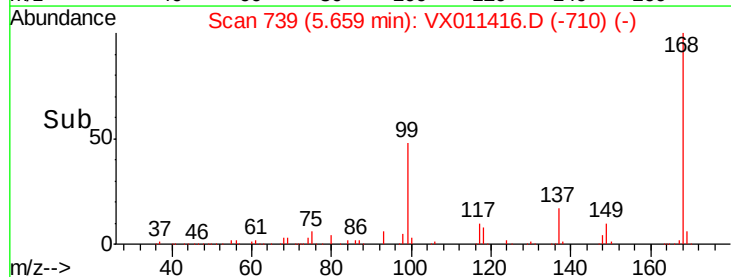
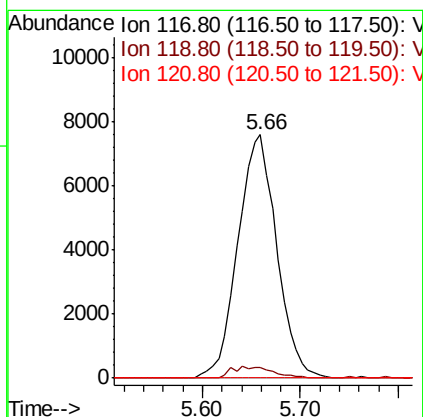
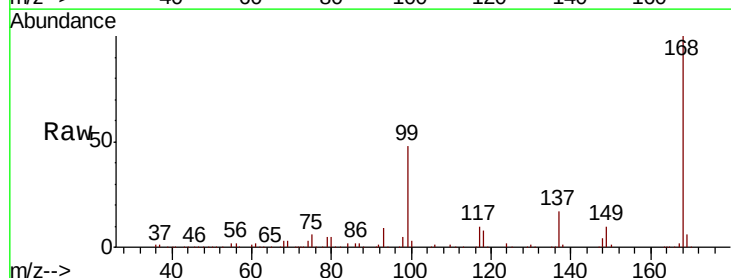
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0692

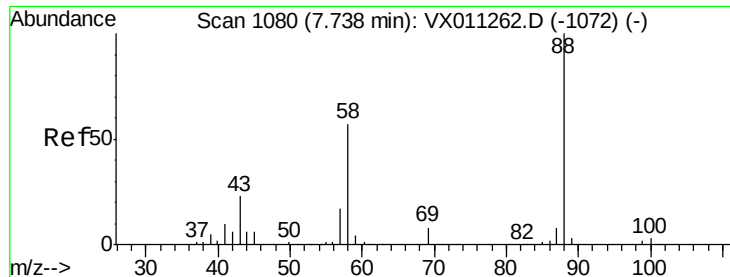
Tgt Ion: 75 Resp: 14561
 Ion Ratio Lower Upper
 75 100
 110 11.1 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.522 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011416.D
 Acq: 09 Aug 2019 17:39

Tgt Ion: 117 Resp: 20915
 Ion Ratio Lower Upper
 117 100
 119 4.2 79.0 118.4#
 121 0.0 25.9 38.9#

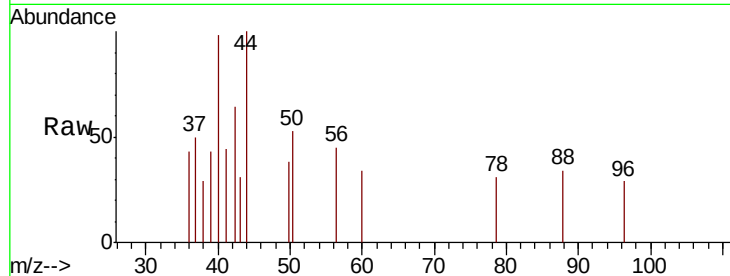




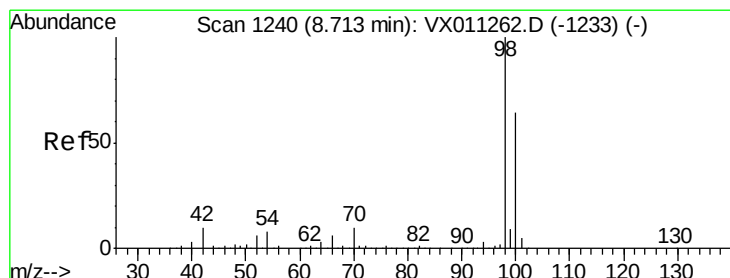
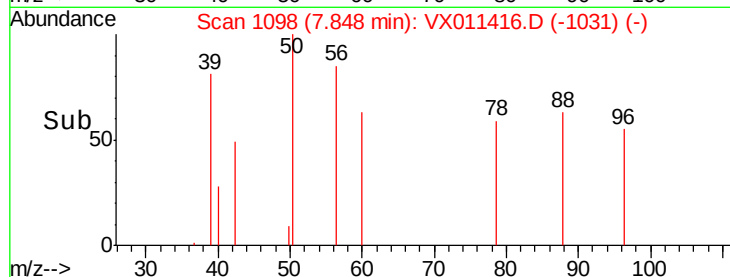
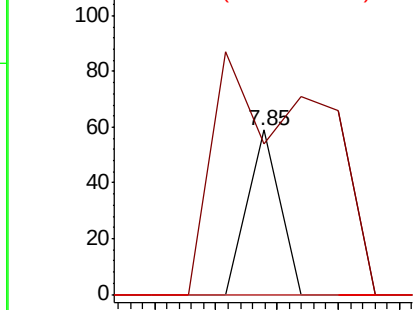
#49
1,4-Dioxane
Concen: 0.364 ug/l
RT: 7.85 min Scan# 1098
Delta R.T. 0.11 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Instrument :
MSVOA_X
ClientSampleId :
Z3-0692

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 463.6 22.2 33.2#
58 0.0 47.8 71.8#

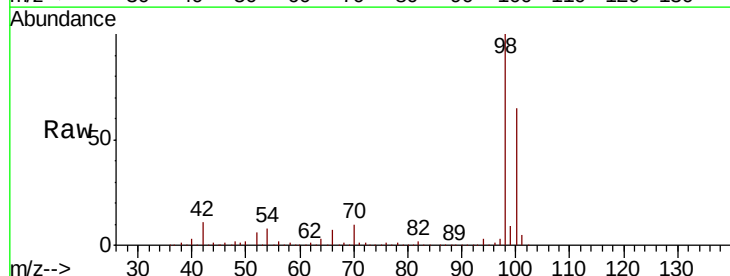


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

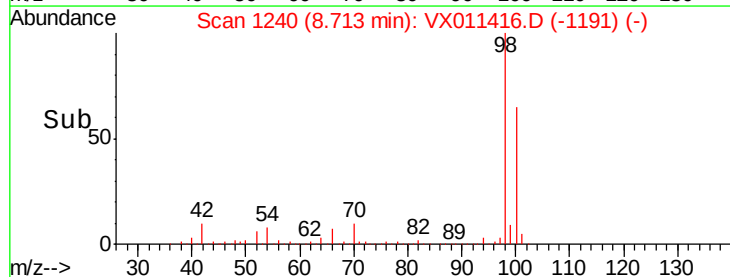
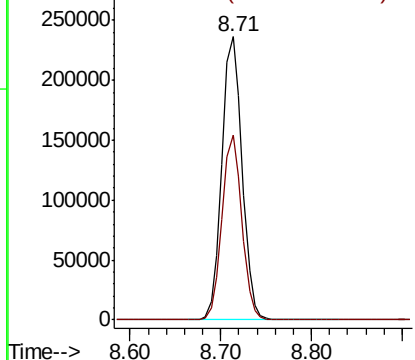


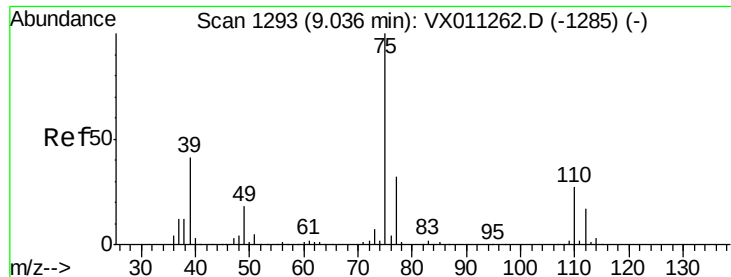
#50
Toluene-d8
Concen: 47.226 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion: 98 Resp: 368410
Ion Ratio Lower Upper
98 100
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

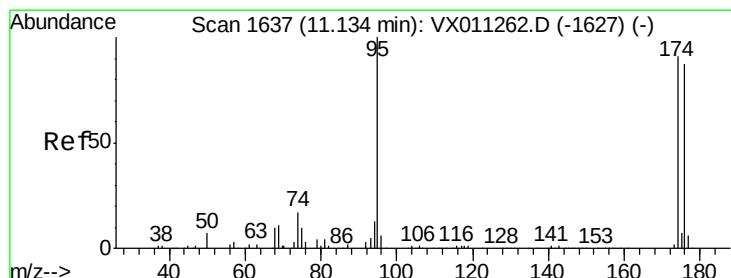
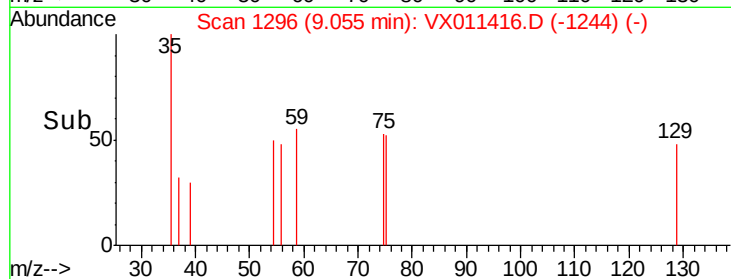
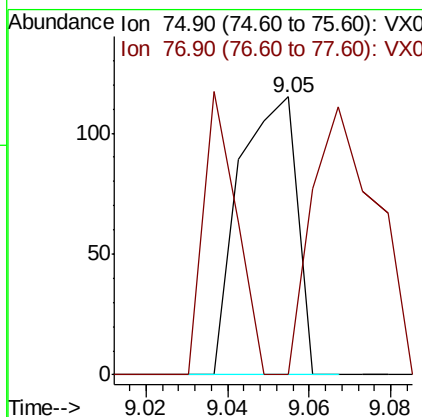
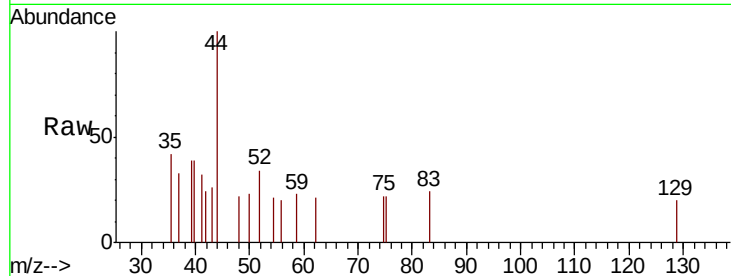




#53
t-1,3-Dichloropropene
Concen: 2.873 ug/l
RT: 9.05 min Scan# 1296
Delta R.T. 0.02 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

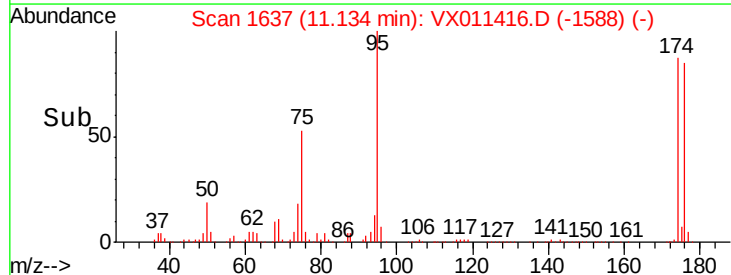
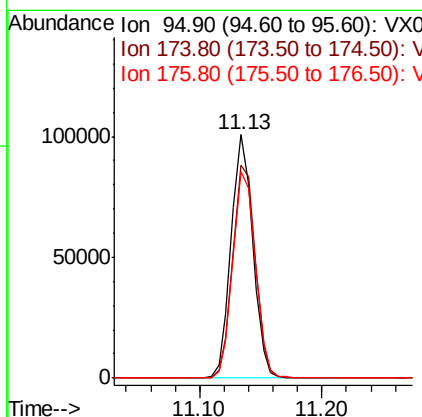
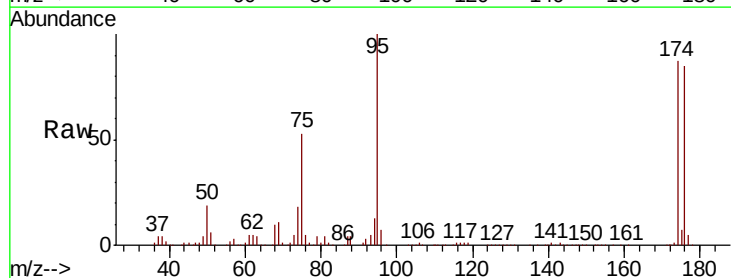
Instrument :
MSVOA_X
ClientSampleId :
Z3-0692

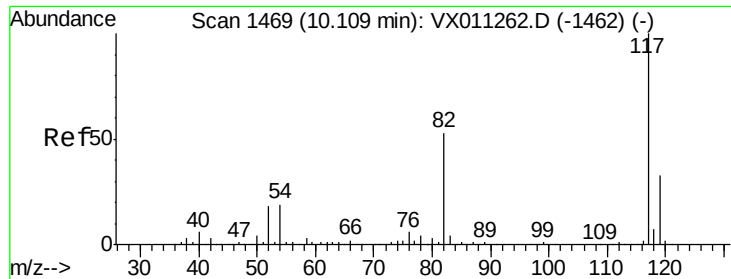
Tgt Ion: 75 Resp: 113
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#62
4-Bromofluorobenzene
Concen: 44.297 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion: 95 Resp: 123375
Ion Ratio Lower Upper
95 100
174 91.0 0.0 191.2
176 88.2 0.0 184.8

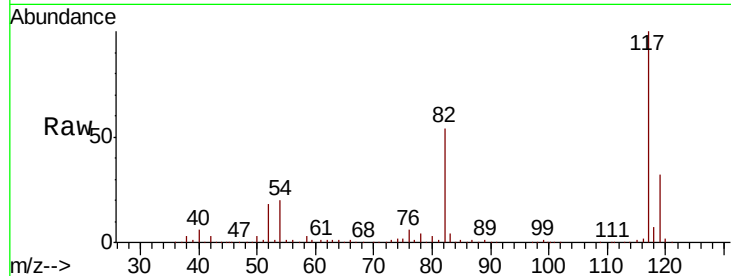




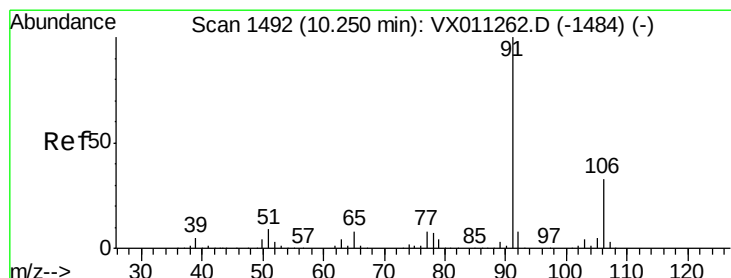
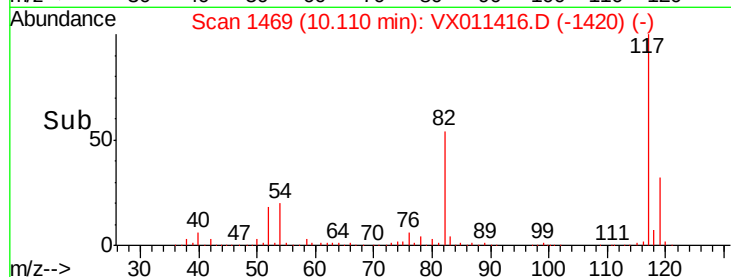
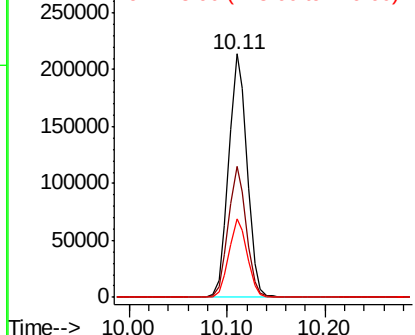
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Instrument :
MSVOA_X
ClientSampled :
Z3-0692

Tgt Ion: 117 Resp: 279367
Ion Ratio Lower Upper
117 100
82 53.8 42.2 63.2
119 32.4 26.6 39.8

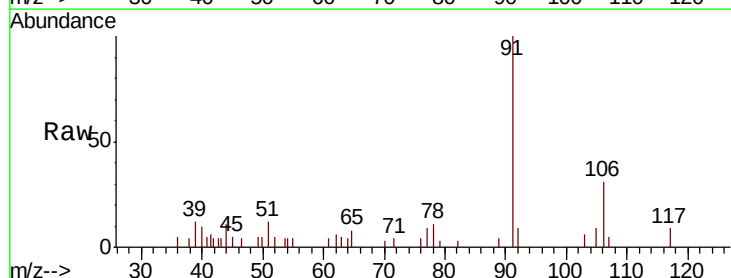


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

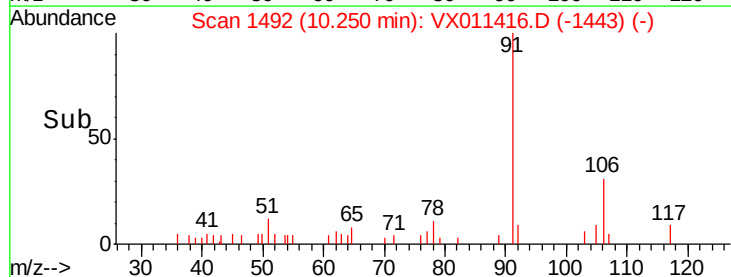
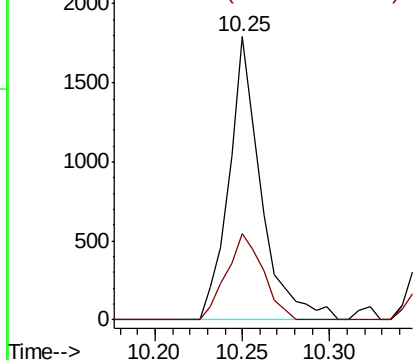


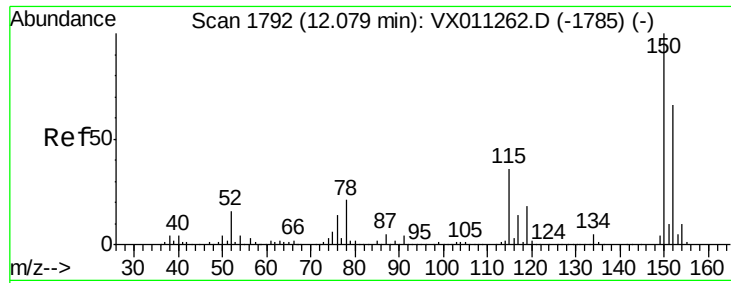
#67
Ethyl Benzene
Concen: 0.228 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion: 91 Resp: 2292
Ion Ratio Lower Upper
91 100
106 30.6 26.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V



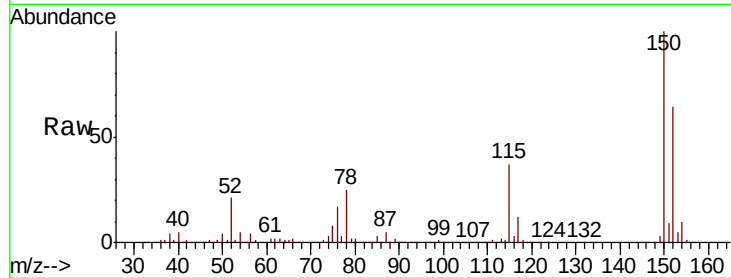


#72

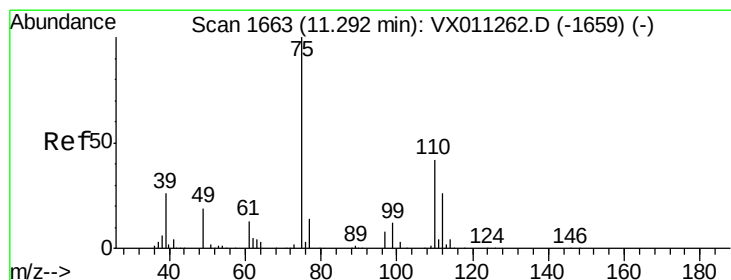
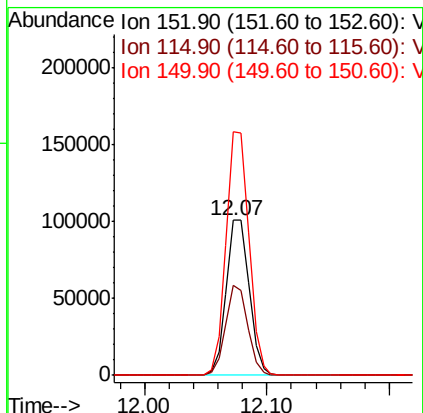
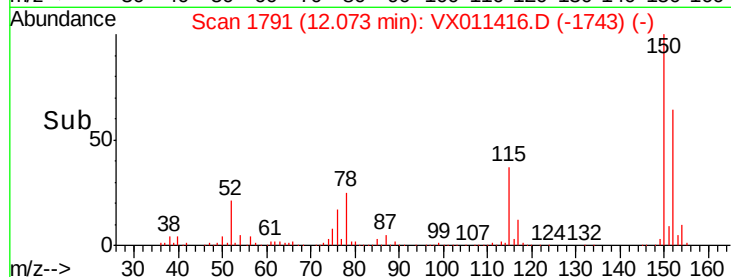
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Instrument :
MSVOA_X
ClientSampleId :
Z3-0692

Tgt Ion:152 Resp: 131650
Ion Ratio Lower Upper
152 100
115 55.9 40.0 119.9
150 156.2 0.0 350.4



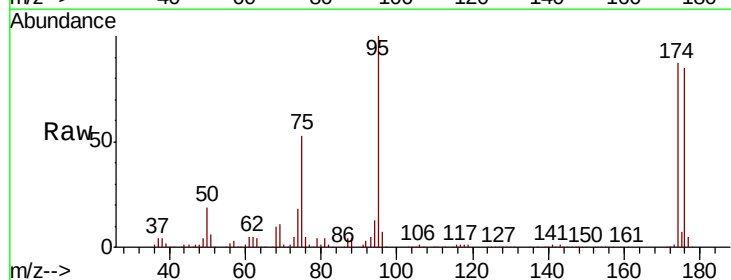
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



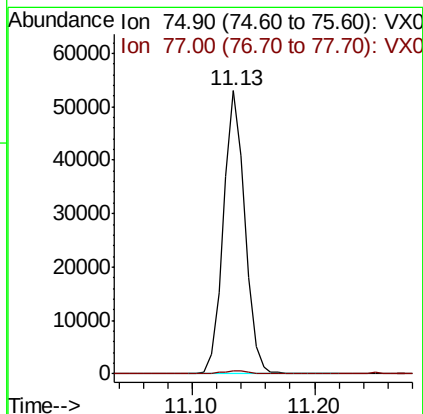
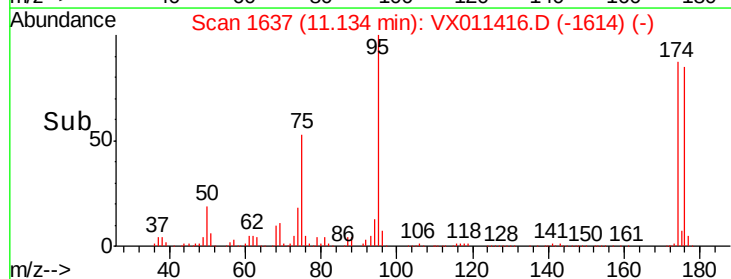
#76

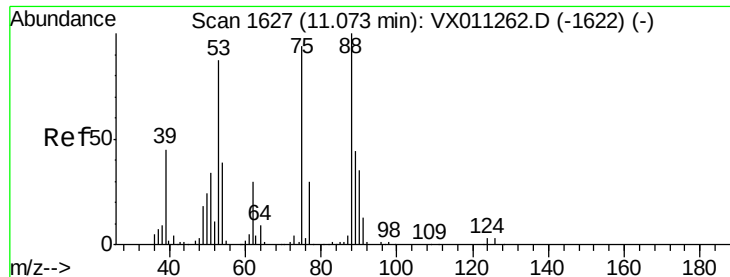
1,2,3-Trichloropropane
Concen: 26.806 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Tgt Ion: 75 Resp: 64268
Ion Ratio Lower Upper
75 100
77 1.2 21.1 63.4#



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: 69.626 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011416.D

Acq: 09 Aug 2019 17:39

Instrument :

MSVOA_X

ClientSampleId :

Z3-0692

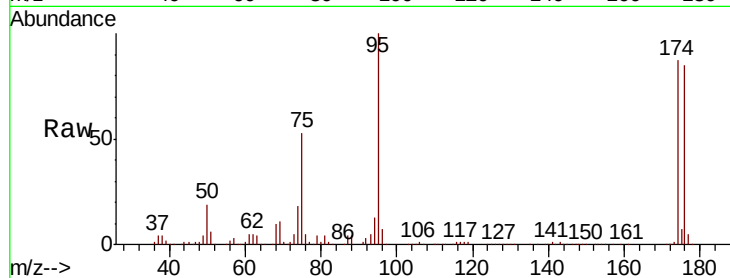
Tgt Ion: 75 Resp: 64268

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

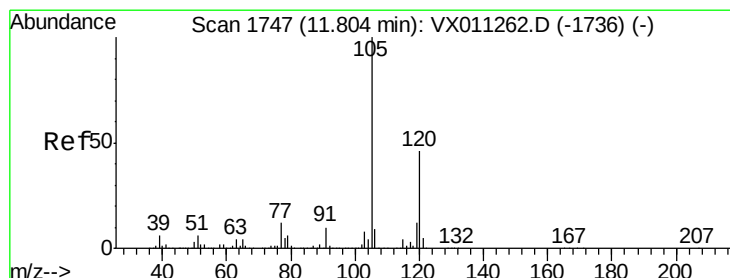
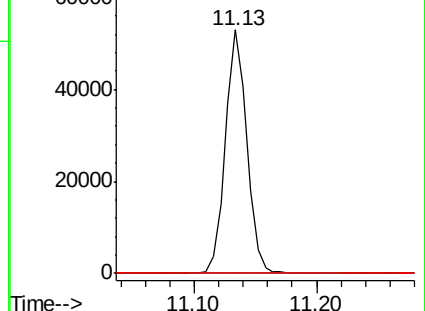
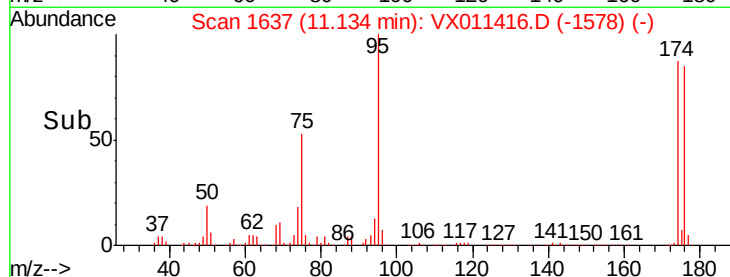
89 0.0 37.9 56.9#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.220 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX011416.D

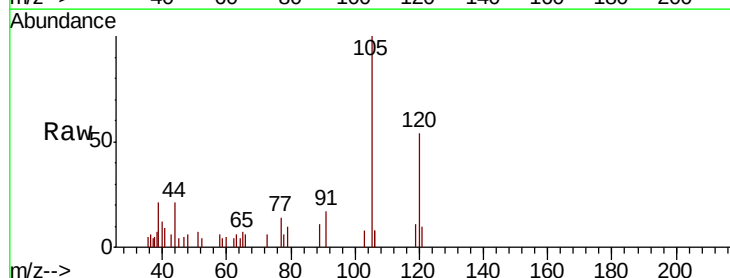
Acq: 09 Aug 2019 17:39

Tgt Ion: 105 Resp: 1651

Ion Ratio Lower Upper

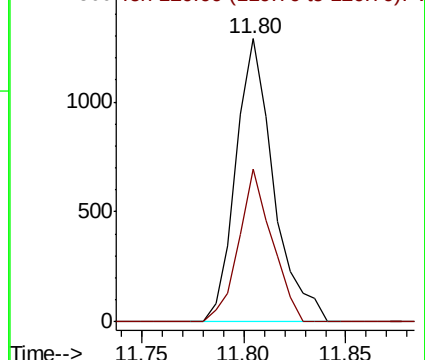
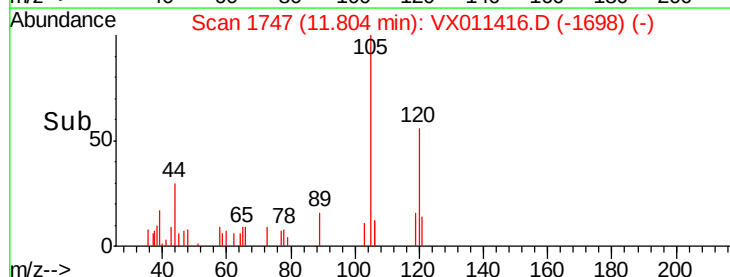
105 100

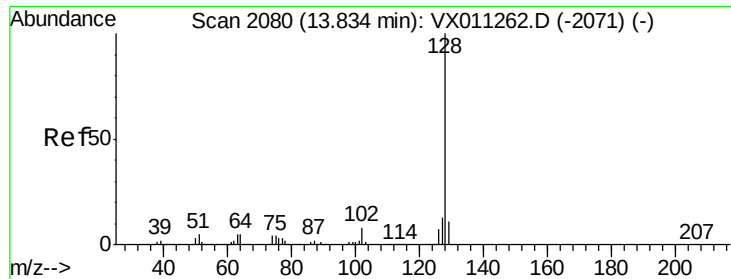
120 47.5 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 0.246 ug/l
RT: 13.83 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX011416.D
Acq: 09 Aug 2019 17:39

Instrument :
MSVOA_X
ClientSampleId :
Z3-0692

Tgt Ion:	128	Resp:	2118
Ion	Ratio	Lower	Upper
128	100		
127	8.6	10.4	15.6#
129	8.9	8.9	13.3

