

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103019\
 Data File : VX013278.D
 Acq On : 30 Oct 2019 11:16
 Operator : JC/SP
 Sample : VX1030WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 31 01:38:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	81313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	114219	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	112333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	69481	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	85140	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
35) Dibromofluoromethane	5.48	113	64522	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
50) Toluene-d8	8.71	98	225724	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.13	95	85768	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	

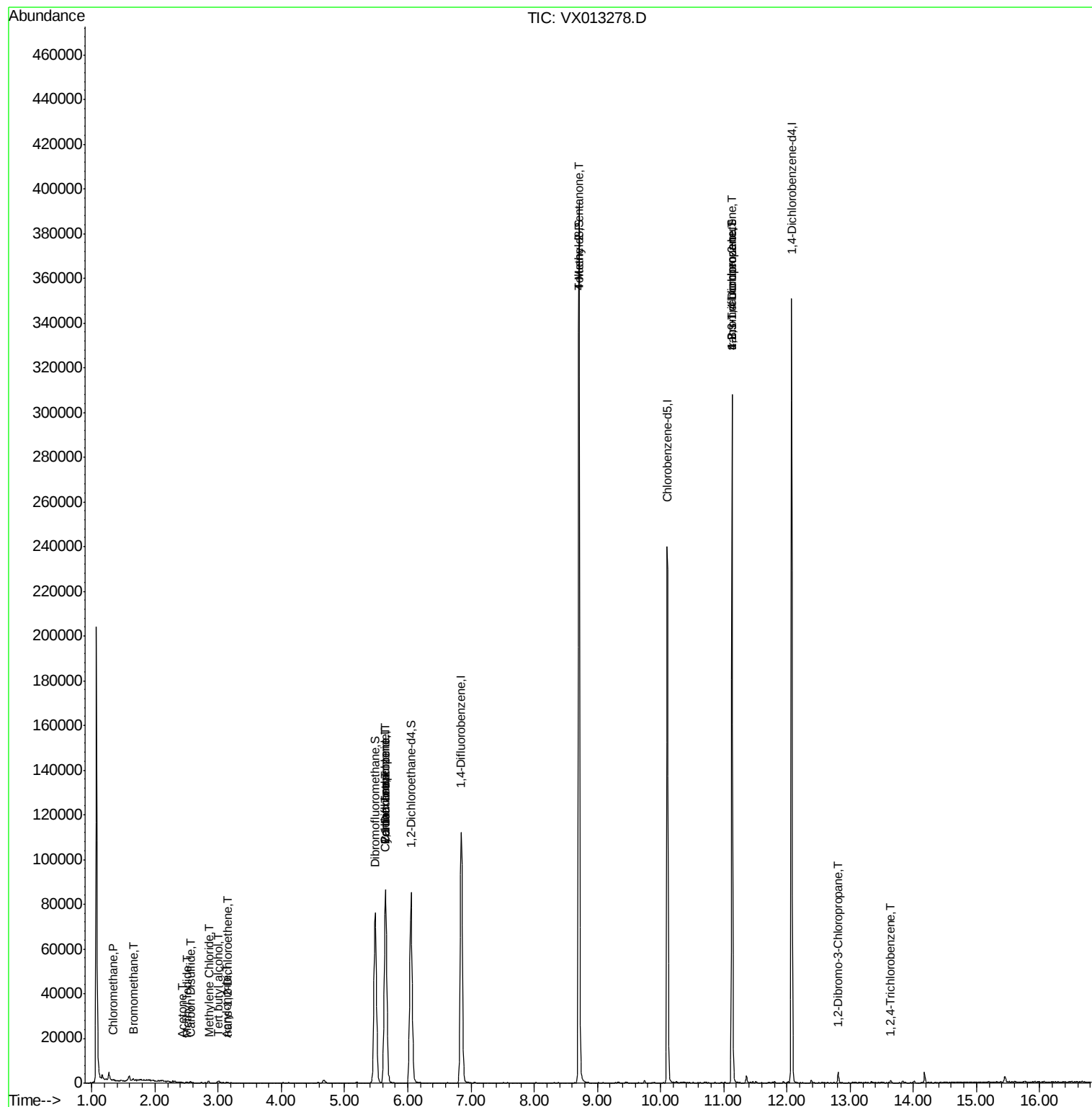
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	23	0.994	ug/l #	40
5) Bromomethane	1.66	94	263	0.336	ug/l #	68
6) Chloroethane	1.70	64	266	Below Cal	#	43
10) Methyl Iodide	2.50	142	358	3.723	ug/l #	57
11) Tert butyl alcohol	3.00	59	740	0.947	ug/l #	72
15) Acrylonitrile	3.13	53	150	0.200	ug/l #	37
16) Acetone	2.43	43	178	0.222	ug/l #	69
17) Carbon Disulfide	2.56	76	788	0.212	ug/l #	74
20) Methylene Chloride	2.86	84	391	0.548	ug/l #	63
21) trans-1,2-Dichloroethene	3.15	96	166	0.590	ug/l #	57
31) Cyclohexane	5.64	56	1584	0.720	ug/l #	15
36) 1,1-Dichloropropene	5.65	75	5977	3.054	ug/l #	46
38) Carbon Tetrachloride	5.65	117	8230	3.898	ug/l #	15
51) 4-Methyl-2-Pentanone	8.70	43	992	0.515	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	42871	25.601	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	42871	70.349	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.81	75	152	0.319	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.64	180	443	0.262	ug/l	93

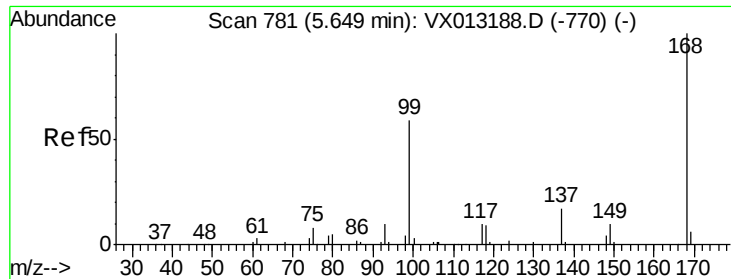
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

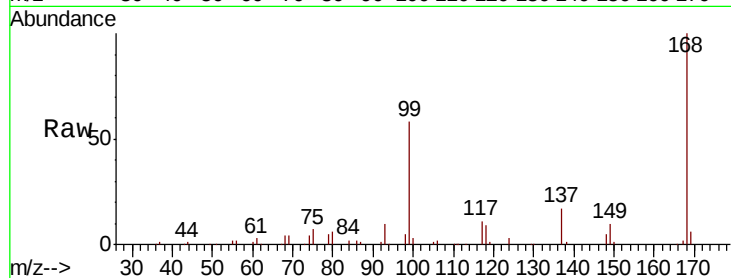
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 81313

Ion Ratio Lower Upper

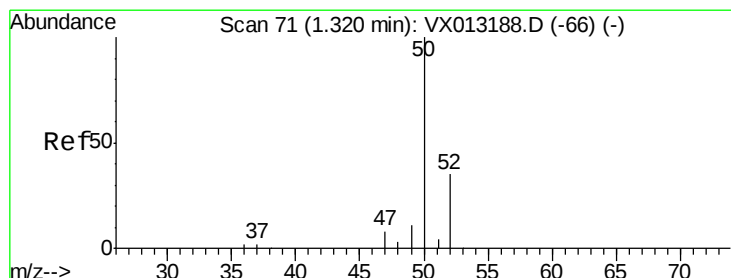
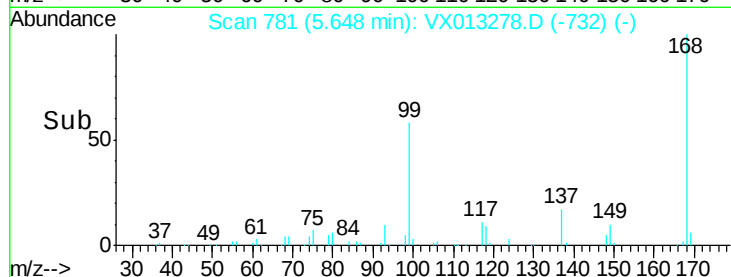
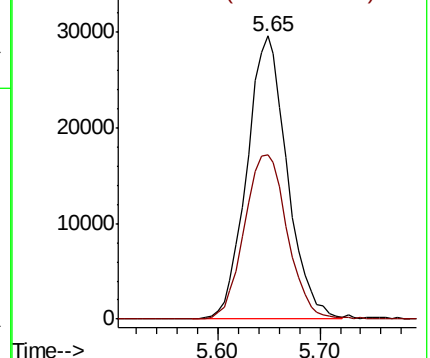
168 100

99 58.2 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.994 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX013278.D

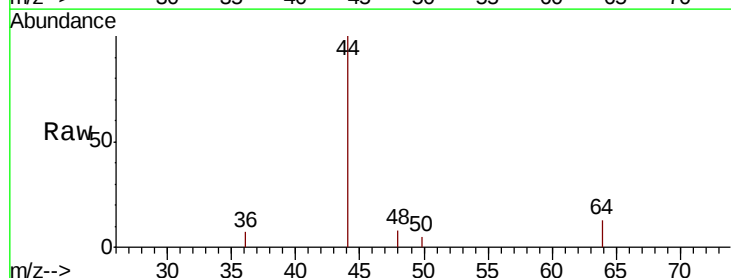
Acq: 30 Oct 2019 11:16

Tgt Ion: 50 Resp: 23

Ion Ratio Lower Upper

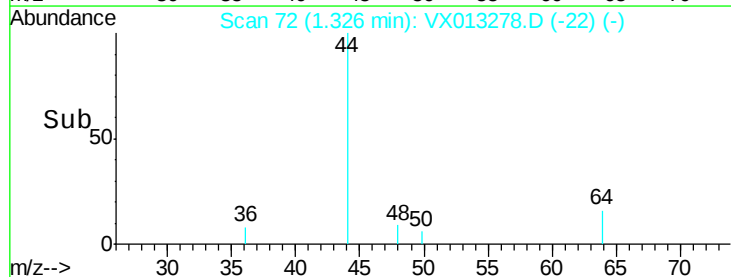
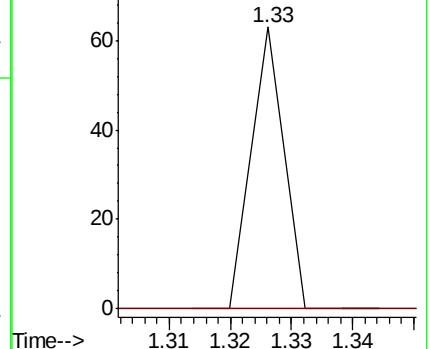
50 100

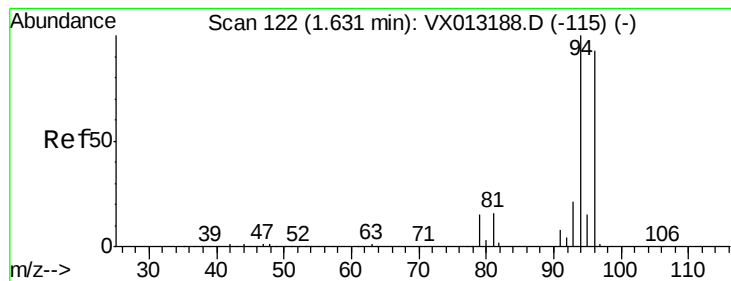
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.336 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

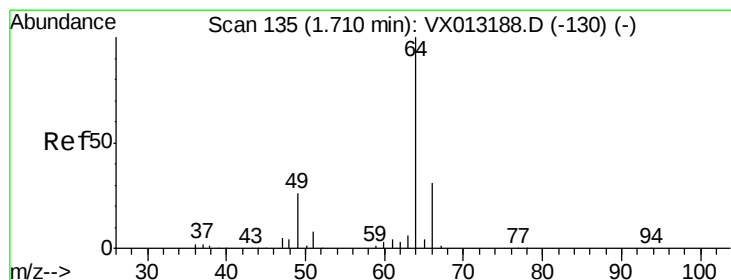
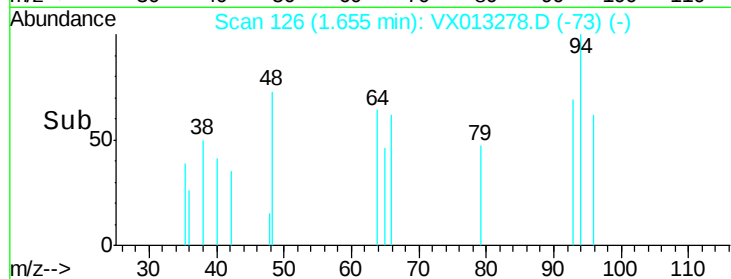
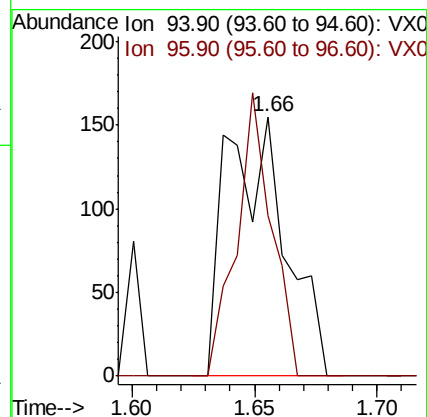
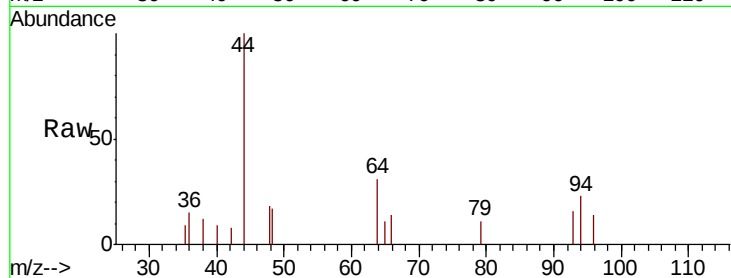
ClientSampleId :

Tot Ion: 94 Resp: 263

Ion Ratio Lower Upper

94 100

96 61.9 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013278.D

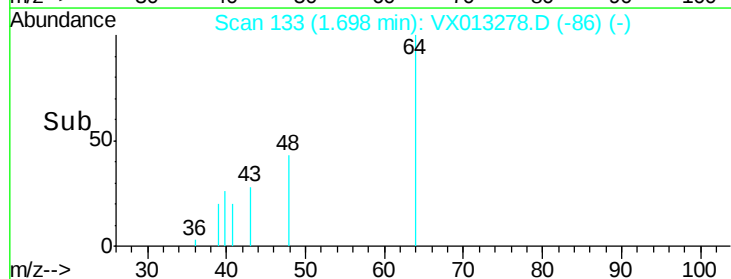
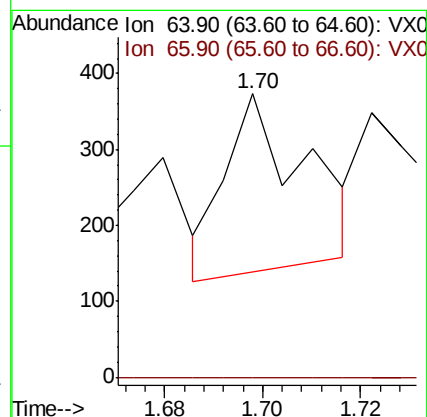
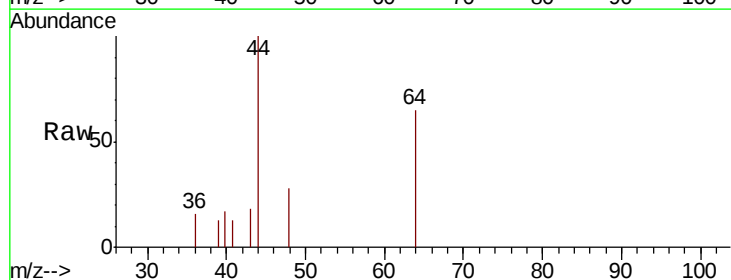
Acq: 30 Oct 2019 11:16

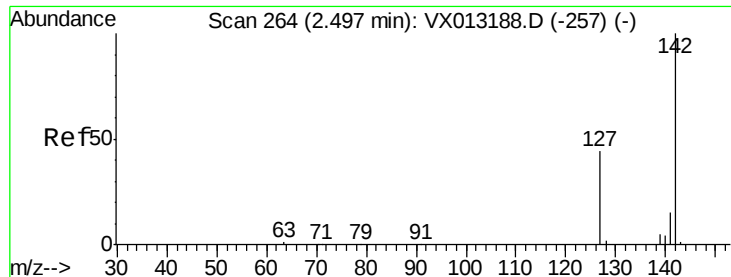
Tgt Ion: 64 Resp: 266

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

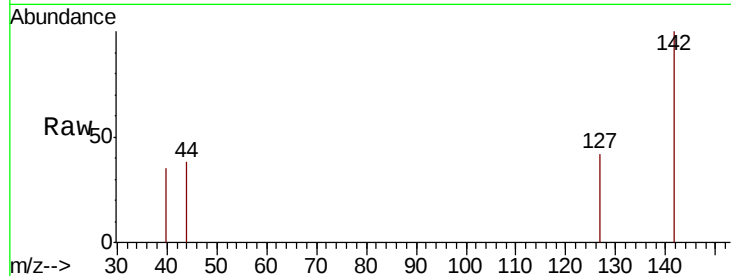




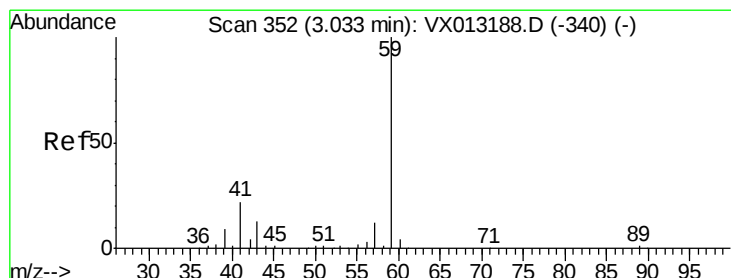
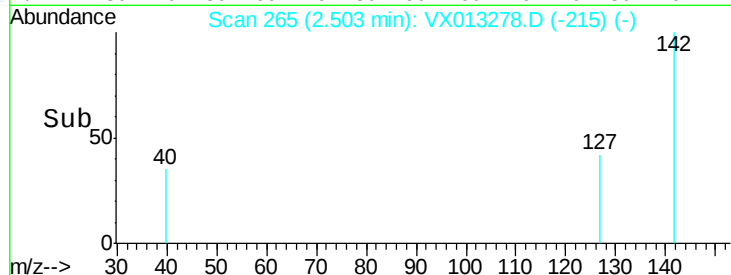
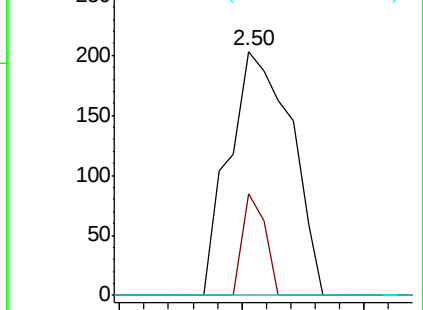
#10
Methyl Iodide
Concen: 3.723 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 358
Ion Ratio Lower Upper
142 100
127 15.1 35.6 53.4#
141 0.0 11.6 17.4#

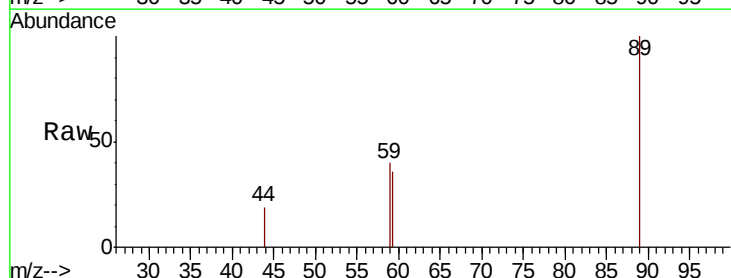


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

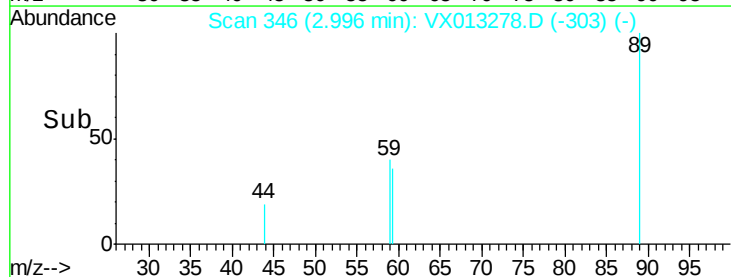
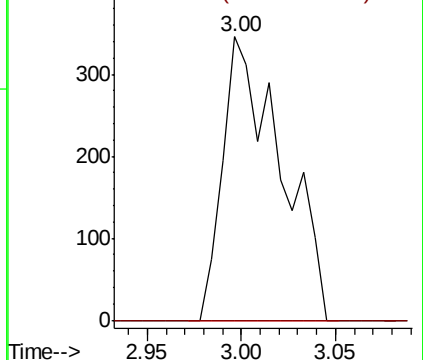


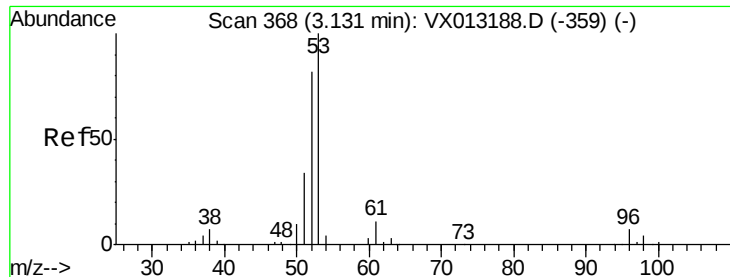
#11
Tert butyl alcohol
Concen: 0.947 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.04 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Tgt Ion: 59 Resp: 740
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#15

Acrylonitrile

Concen: 0.200 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

ClientSampled :

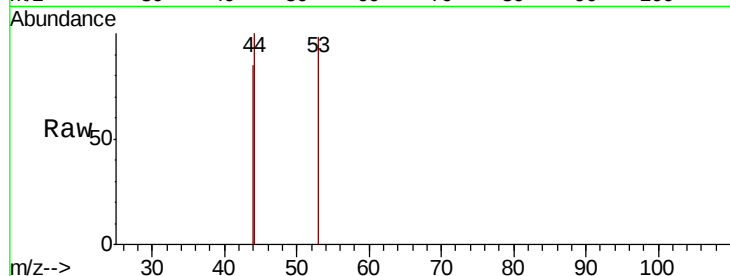
Tot Ion: 53 Resp: 150

Ion Ratio Lower Upper

53 100

52 26.0 66.4 99.6#

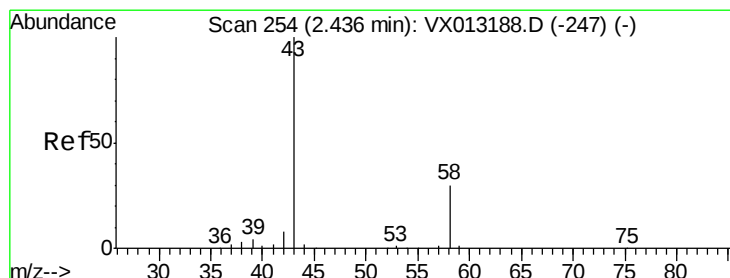
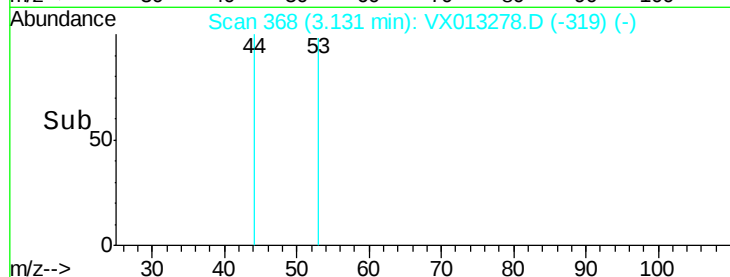
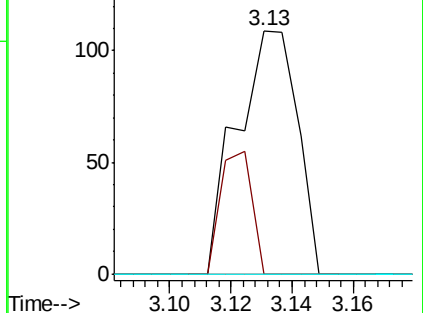
51 0.0 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.222 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013278.D

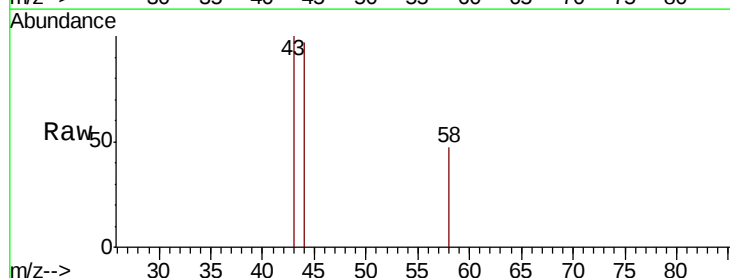
Acq: 30 Oct 2019 11:16

Tgt Ion: 43 Resp: 178

Ion Ratio Lower Upper

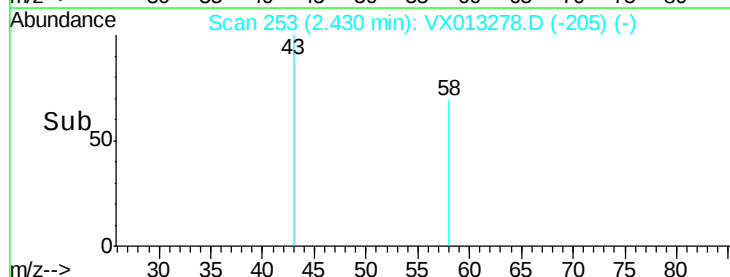
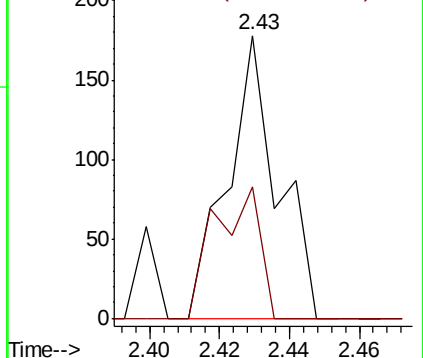
43 100

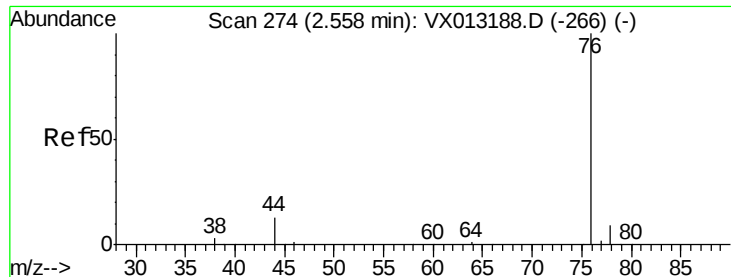
58 46.6 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

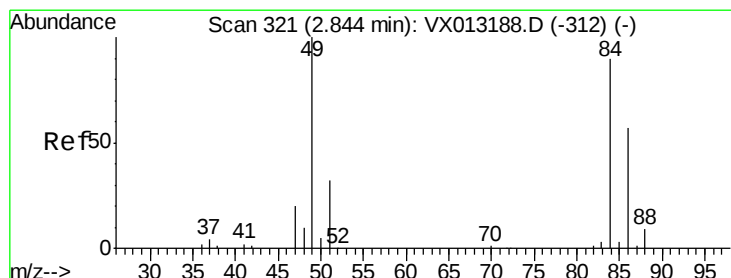
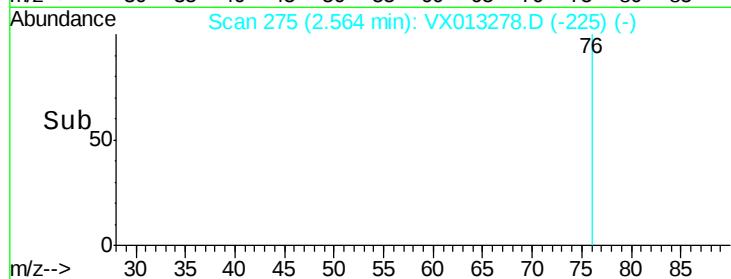
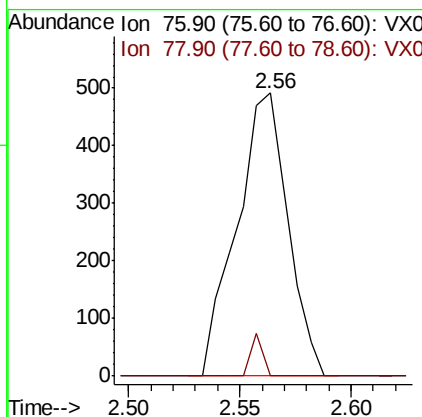
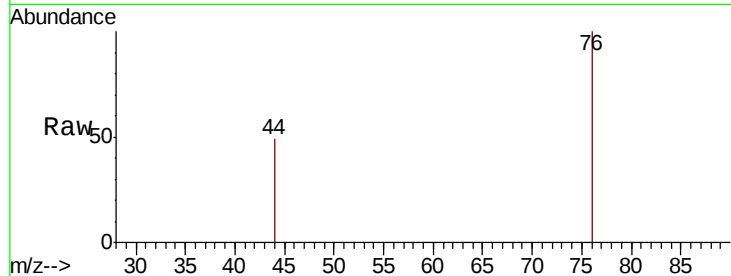




#17
Carbon Disulfide
Concen: 0.212 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

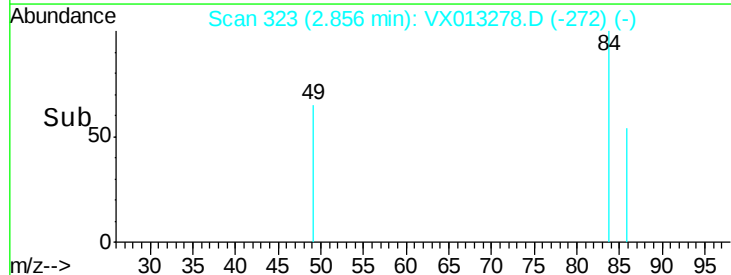
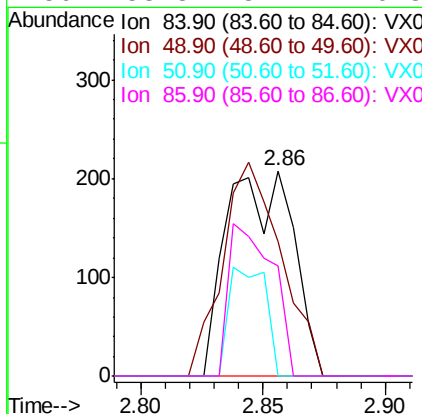
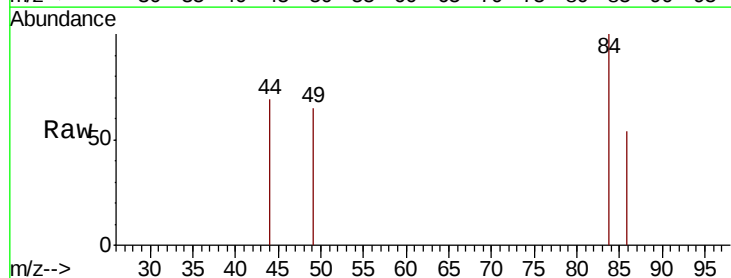
Instrument :
MSVOA_X
ClientSampled :

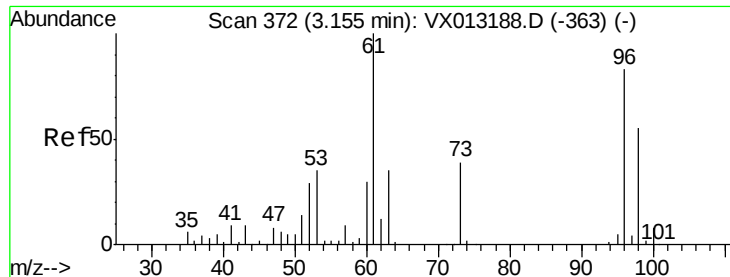
Tot Ion: 76 Resp: 788
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#20
Methylene Chloride
Concen: 0.548 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Tgt Ion: 84 Resp: 391
Ion Ratio Lower Upper
84 100
49 65.4 89.2 133.8#
51 0.0 28.8 43.2#
86 53.8 51.2 76.8

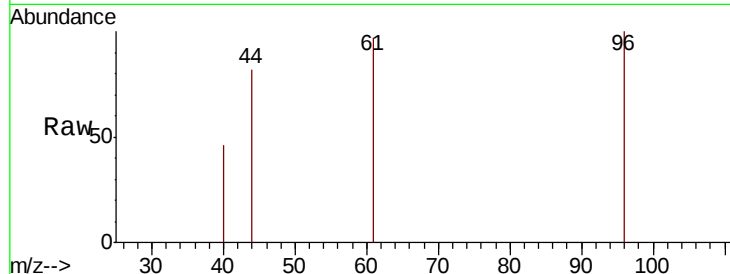




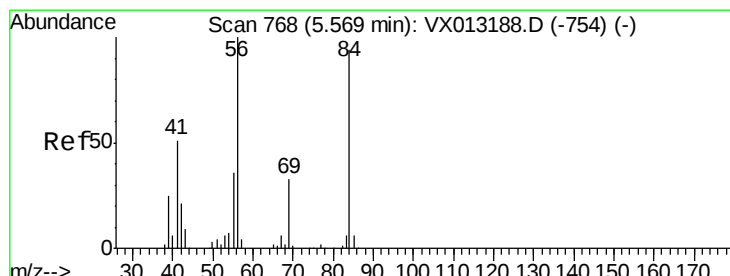
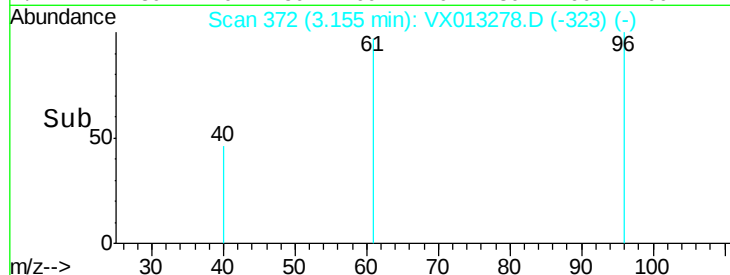
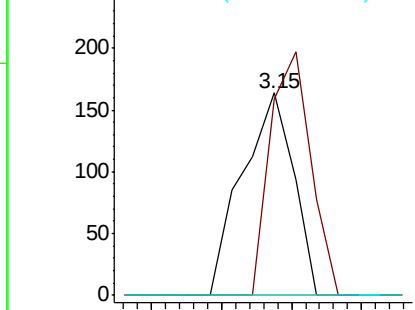
#21
trans-1,2-Dichloroethene
Concen: 0.590 ug/l
RT: 3.15 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 166
Ion Ratio Lower Upper
96 100
61 97.0 96.9 145.3
98 0.0 53.0 79.4#

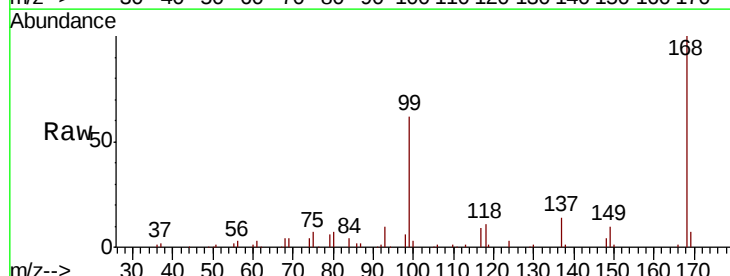


Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0

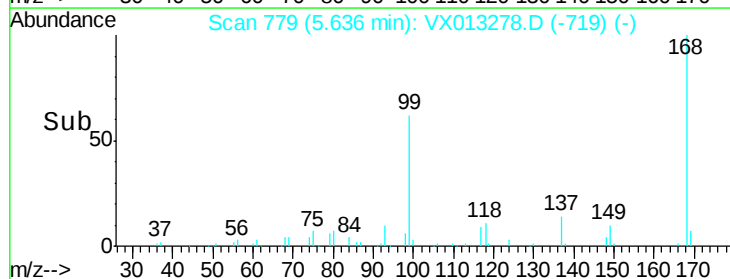
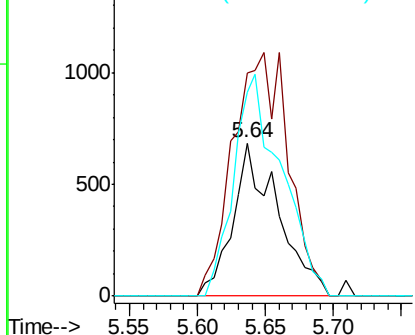


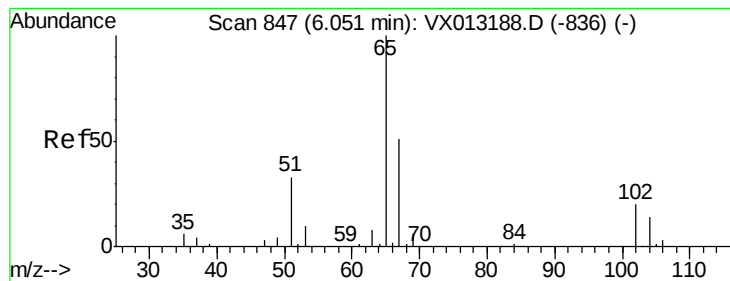
#31
Cyclohexane
Concen: 0.720 ug/l
RT: 5.64 min Scan# 779
Delta R.T. 0.07 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Tgt Ion: 56 Resp: 1584
Ion Ratio Lower Upper
56 100
69 146.1 26.3 39.5#
84 133.4 73.8 110.6#



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: 50.062 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

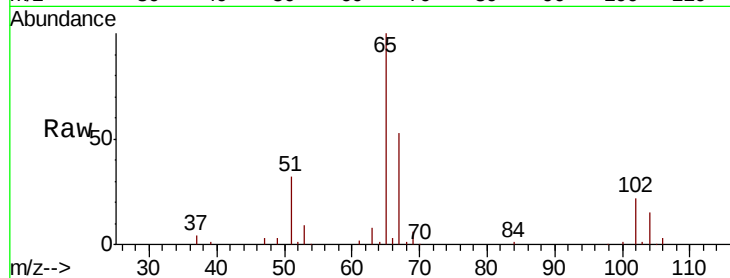
ClientSampleId :

Tot Ion: 65 Resp: 85140

Ion Ratio Lower Upper

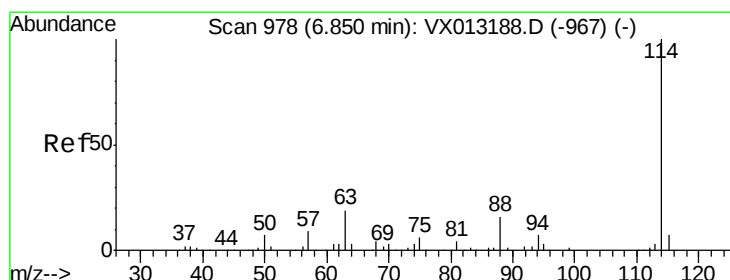
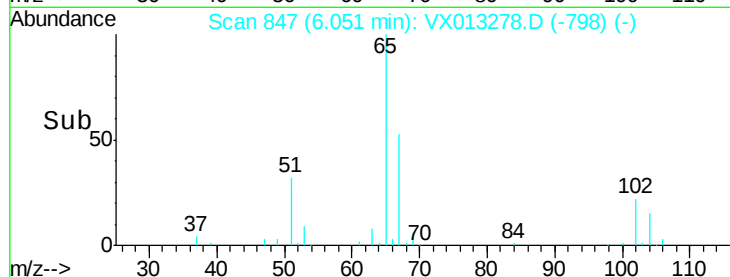
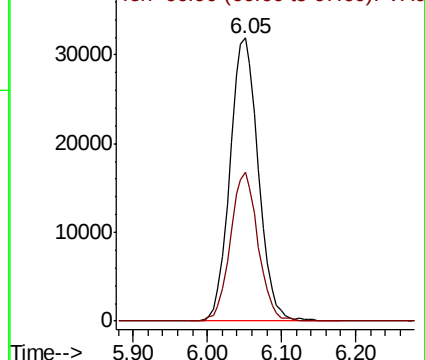
65 100

67 51.0 0.0 102.6



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: 6.84 min Scan# 977

Delta R.T. -0.01 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

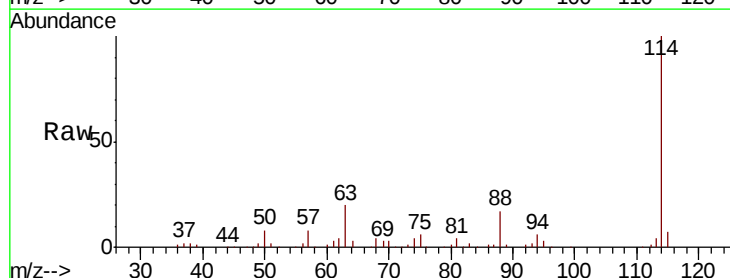
Tgt Ion: 114 Resp: 114219

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

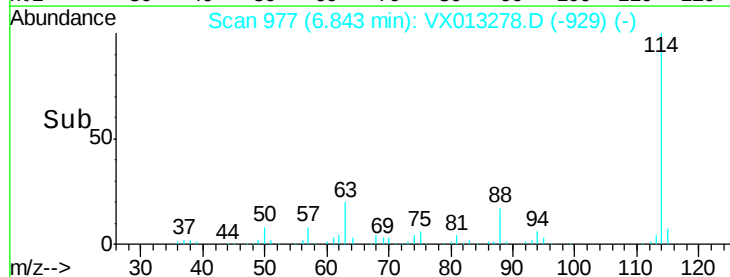
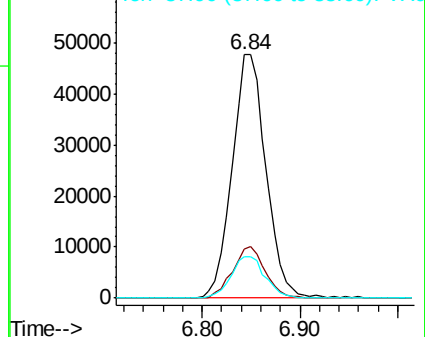
88 17.0 0.0 32.0

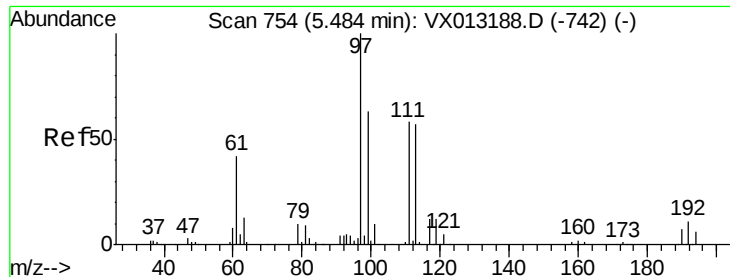


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.657 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

ClientSampleId :

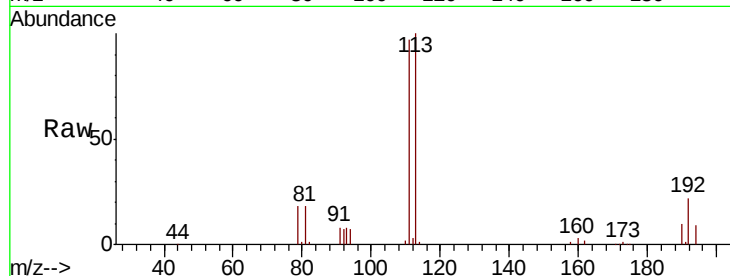
Tot Ion:113 Resp: 64522

Ion Ratio Lower Upper

113 100

111 102.7 80.3 120.5

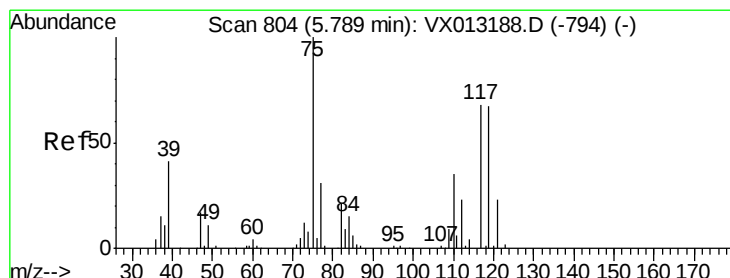
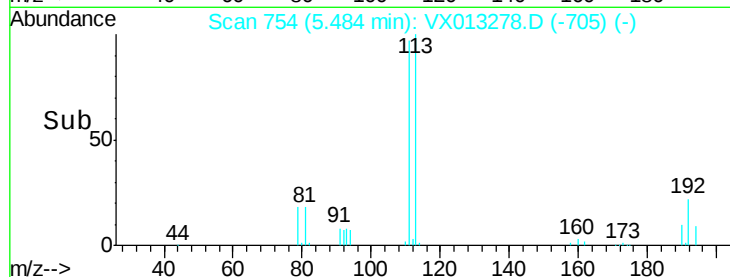
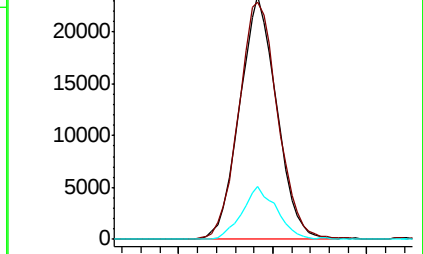
192 20.6 15.9 23.9



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: 3.054 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

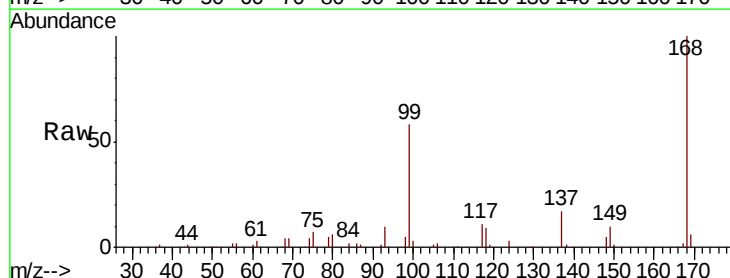
Tgt Ion: 75 Resp: 5977

Ion Ratio Lower Upper

75 100

110 5.3 17.6 52.9#

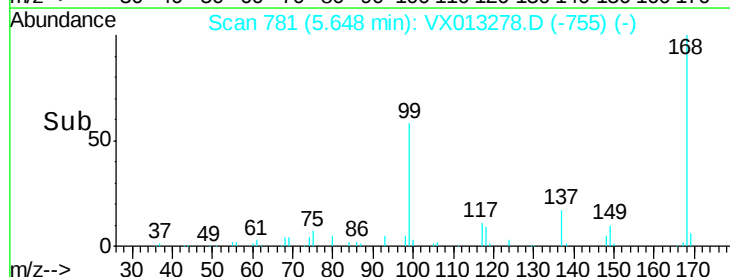
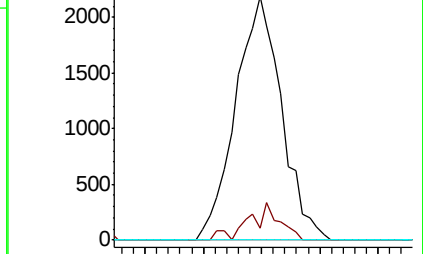
77 0.0 24.7 37.1#

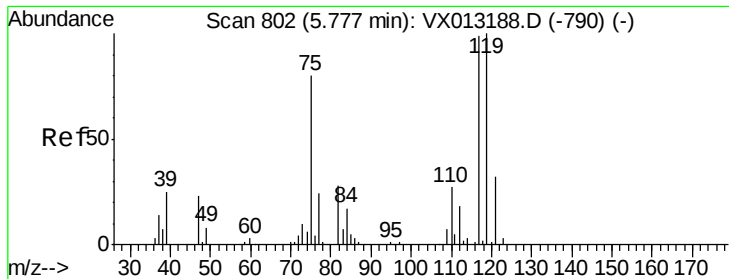


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.898 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

ClientSampleId :

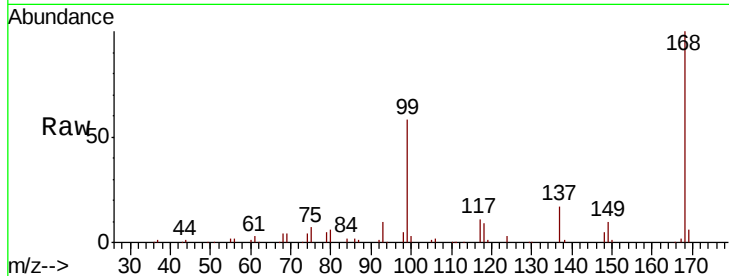
Tot Ion:117 Resp: 8230

Ion Ratio Lower Upper

117 100

119 6.2 80.1 120.1#

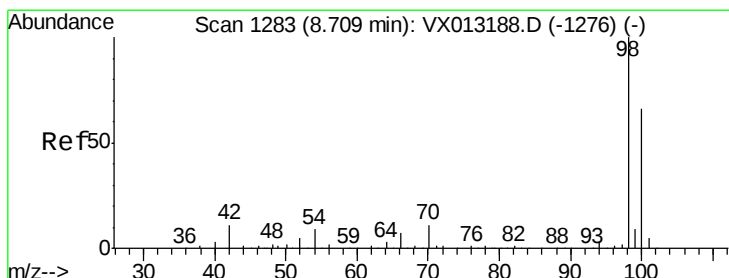
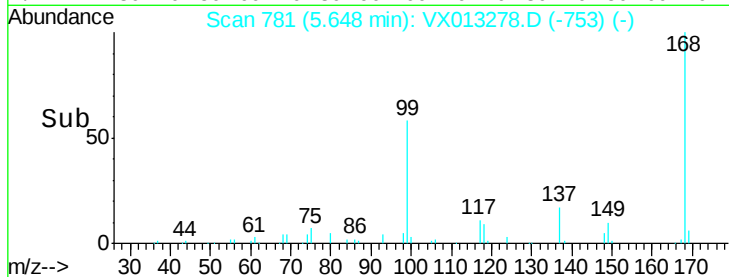
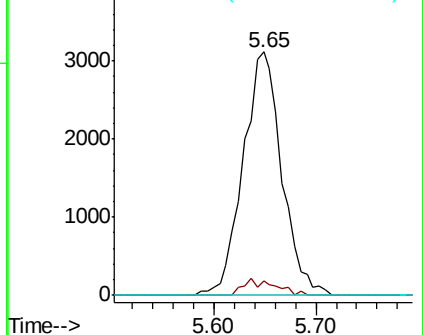
121 0.0 25.5 38.3#



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: 47.821 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013278.D

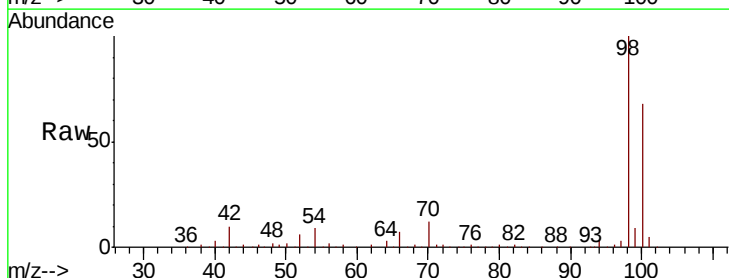
Acq: 30 Oct 2019 11:16

Tgt Ion: 98 Resp: 225724

Ion Ratio Lower Upper

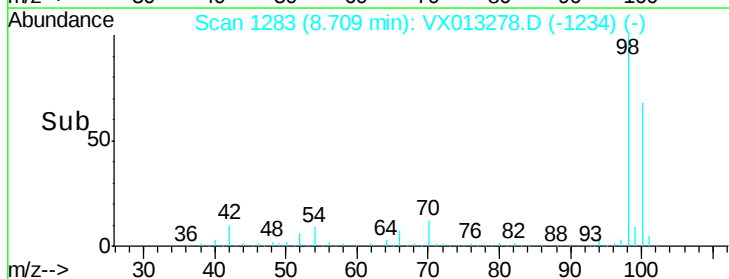
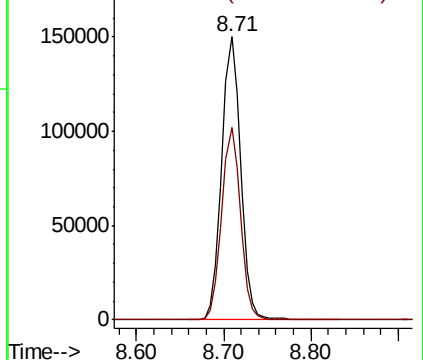
98 100

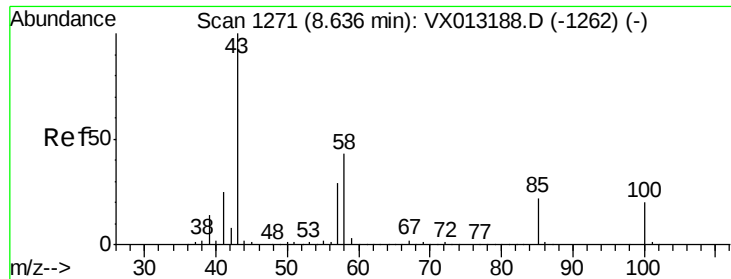
100 67.3 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.515 ug/l

RT: 8.70 min Scan# 1282

Delta R.T. 0.07 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

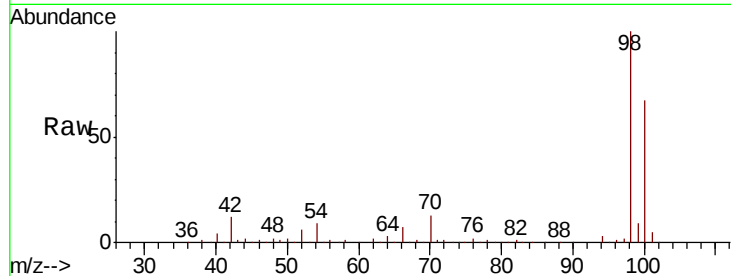
ClientSampleId :

Tot Ion: 43 Resp: 992

Ion Ratio Lower Upper

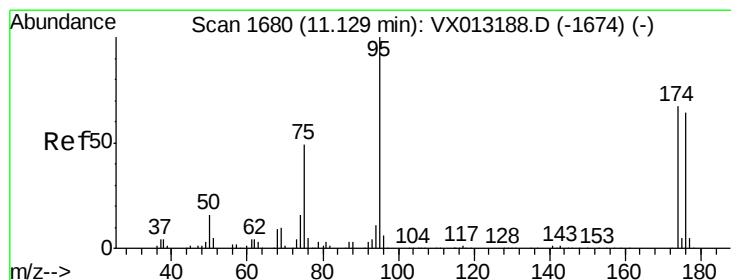
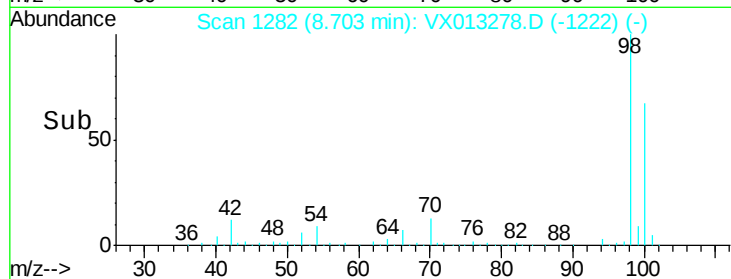
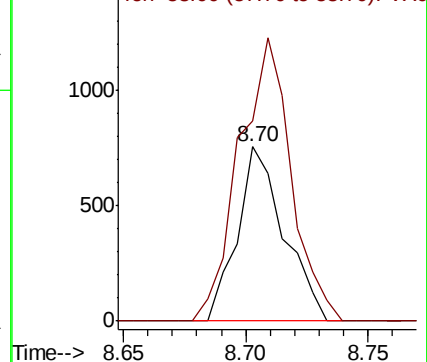
43 100

58 182.1 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.908 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

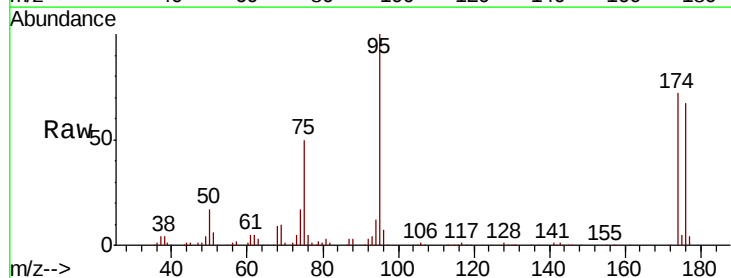
Tgt Ion: 95 Resp: 85768

Ion Ratio Lower Upper

95 100

174 76.4 0.0 152.4

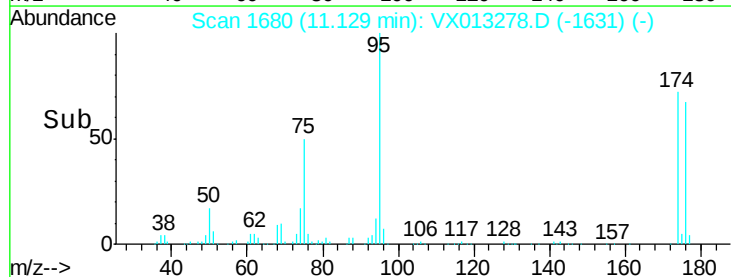
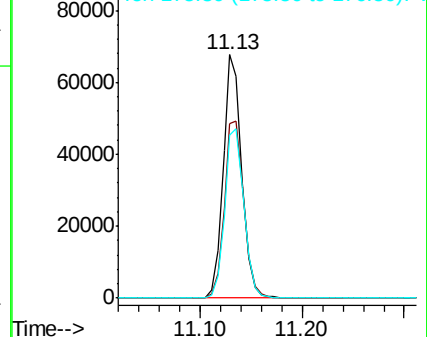
176 72.7 0.0 146.0

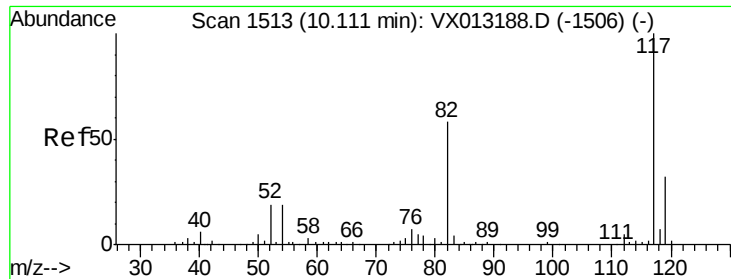


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

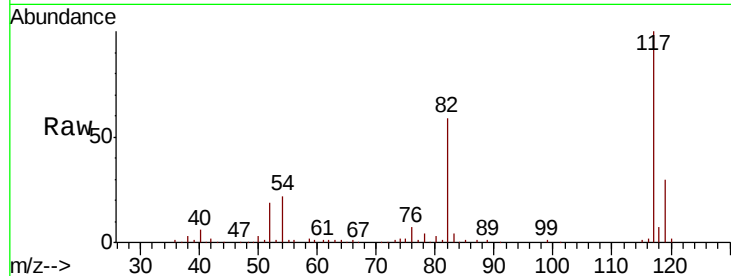




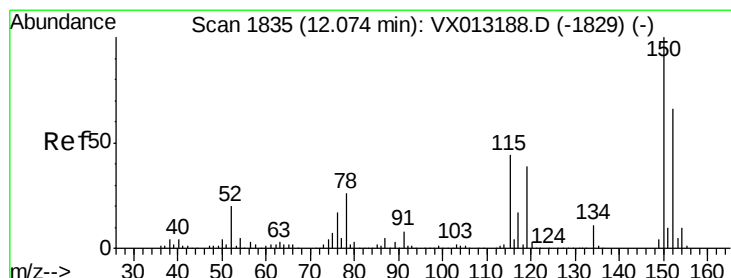
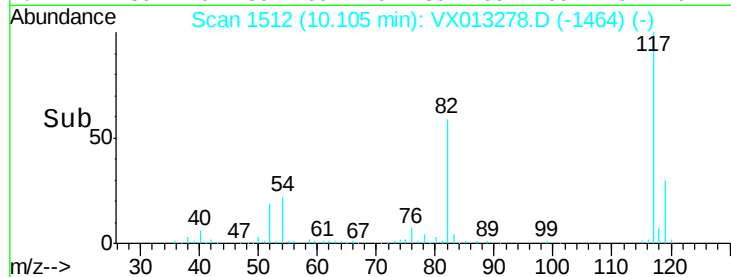
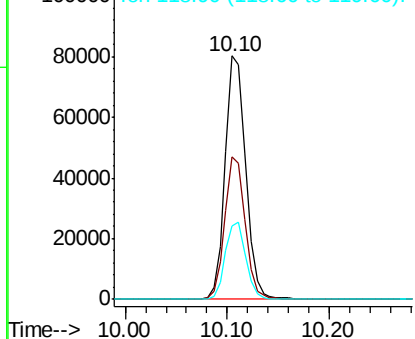
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 112333
Ion Ratio Lower Upper
117 100
82 58.6 46.5 69.7
119 30.2 25.2 37.8

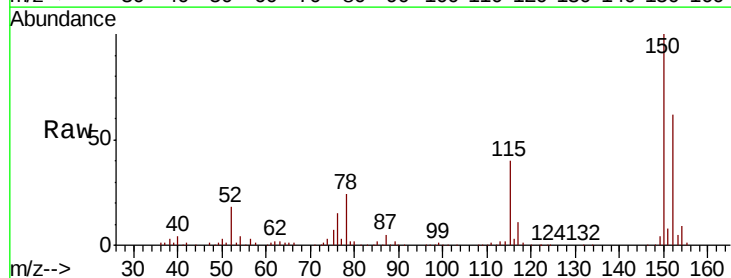


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

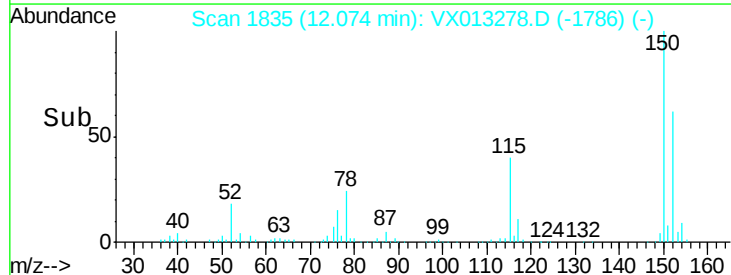
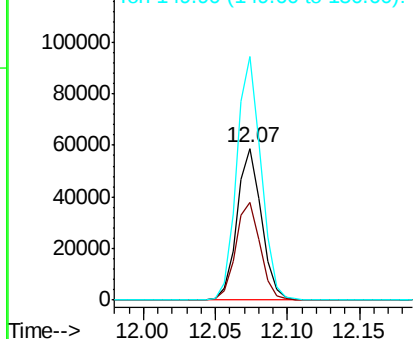


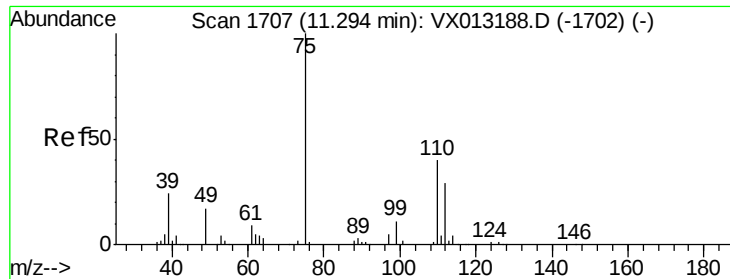
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013278.D
Acq: 30 Oct 2019 11:16

Tgt Ion:152 Resp: 69481
Ion Ratio Lower Upper
152 100
115 65.5 46.6 139.8
150 161.0 0.0 354.0



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





#76

1,2,3-Trichloropropane

Concen: 25.601 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

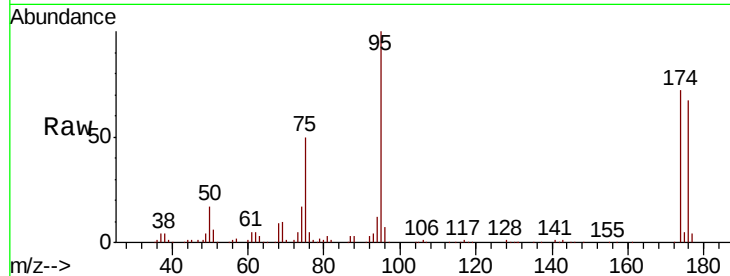
ClientSampleId :

Tot Ion: 75 Resp: 42871

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

40000

30000

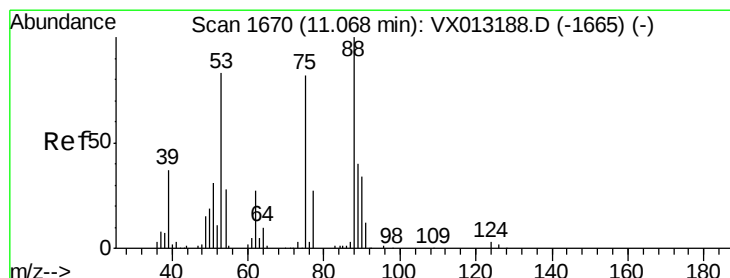
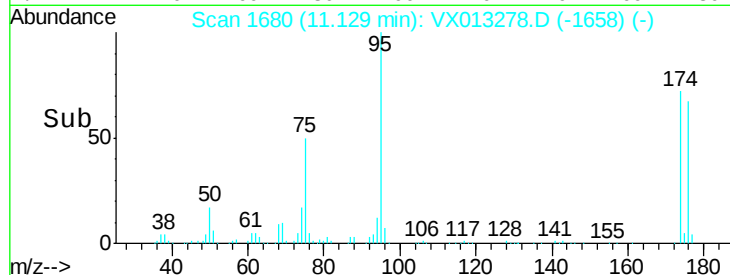
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 70.349 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

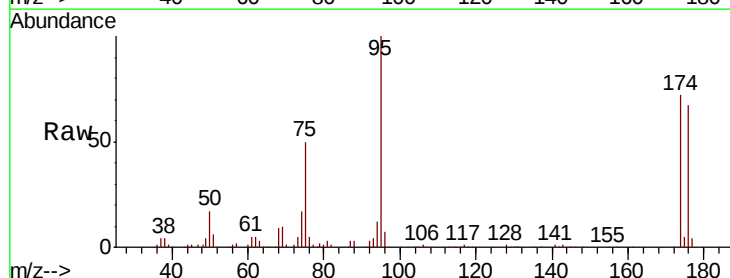
Tgt Ion: 75 Resp: 42871

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.1 37.3 55.9#



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

40000

30000

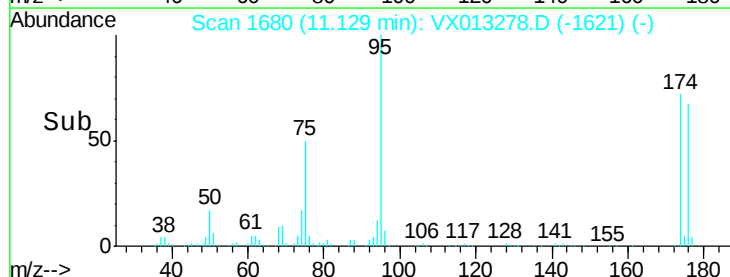
20000

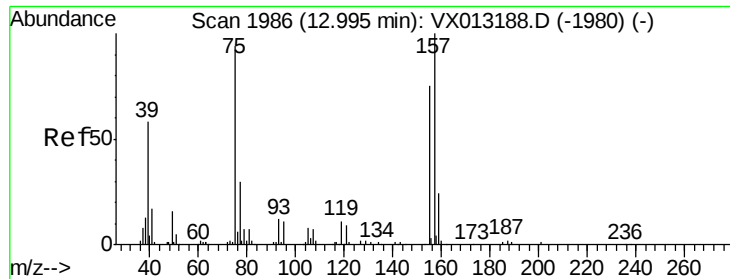
10000

0

Time-->

11.10 11.20





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.319 ug/l

RT: 12.81 min Scan# 1956

Delta R.T. -0.18 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

Instrument :

MSVOA_X

ClientSampleId :

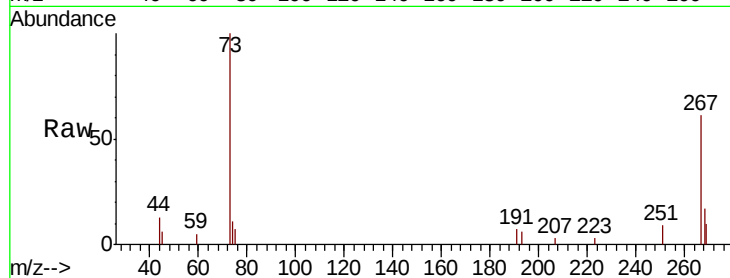
Tot Ion: 75 Resp: 152

Ion Ratio Lower Upper

75 100

155 0.0 42.8 128.4#

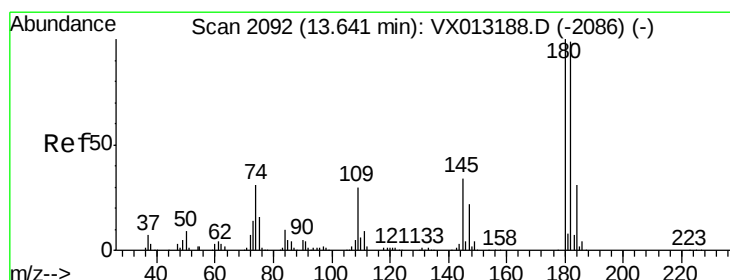
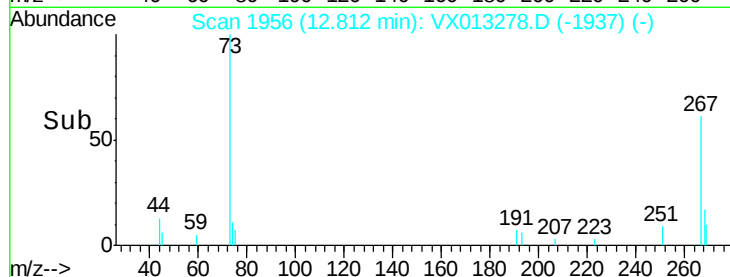
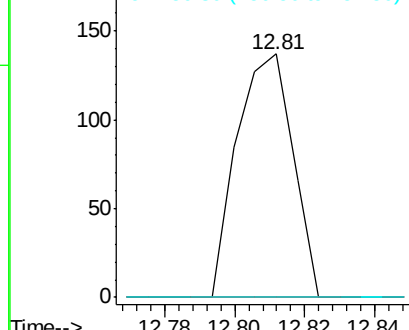
157 0.0 54.3 162.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.262 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX013278.D

Acq: 30 Oct 2019 11:16

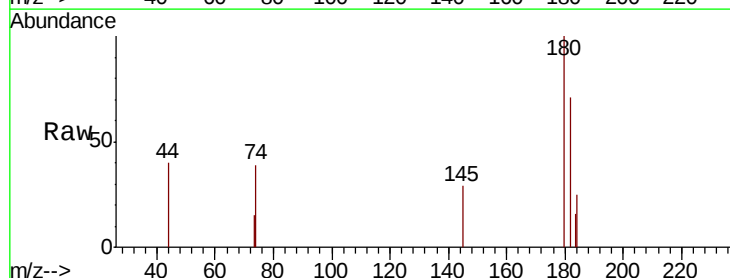
Tgt Ion: 180 Resp: 443

Ion Ratio Lower Upper

180 100

182 93.2 45.9 137.6

145 18.7 15.9 47.6



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

