

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121119\
 Data File : VX013964.D
 Acq On : 12 Dec 2019 00:30
 Operator : JC/SP
 Sample : K6249-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ190I-20191208

Quant Time: Dec 12 06:42:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	534500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	822950	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	720168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	330437	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	302485	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
35) Dibromofluoromethane	5.49	113	243739	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	8.71	98	973507	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	11.14	95	330740	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	

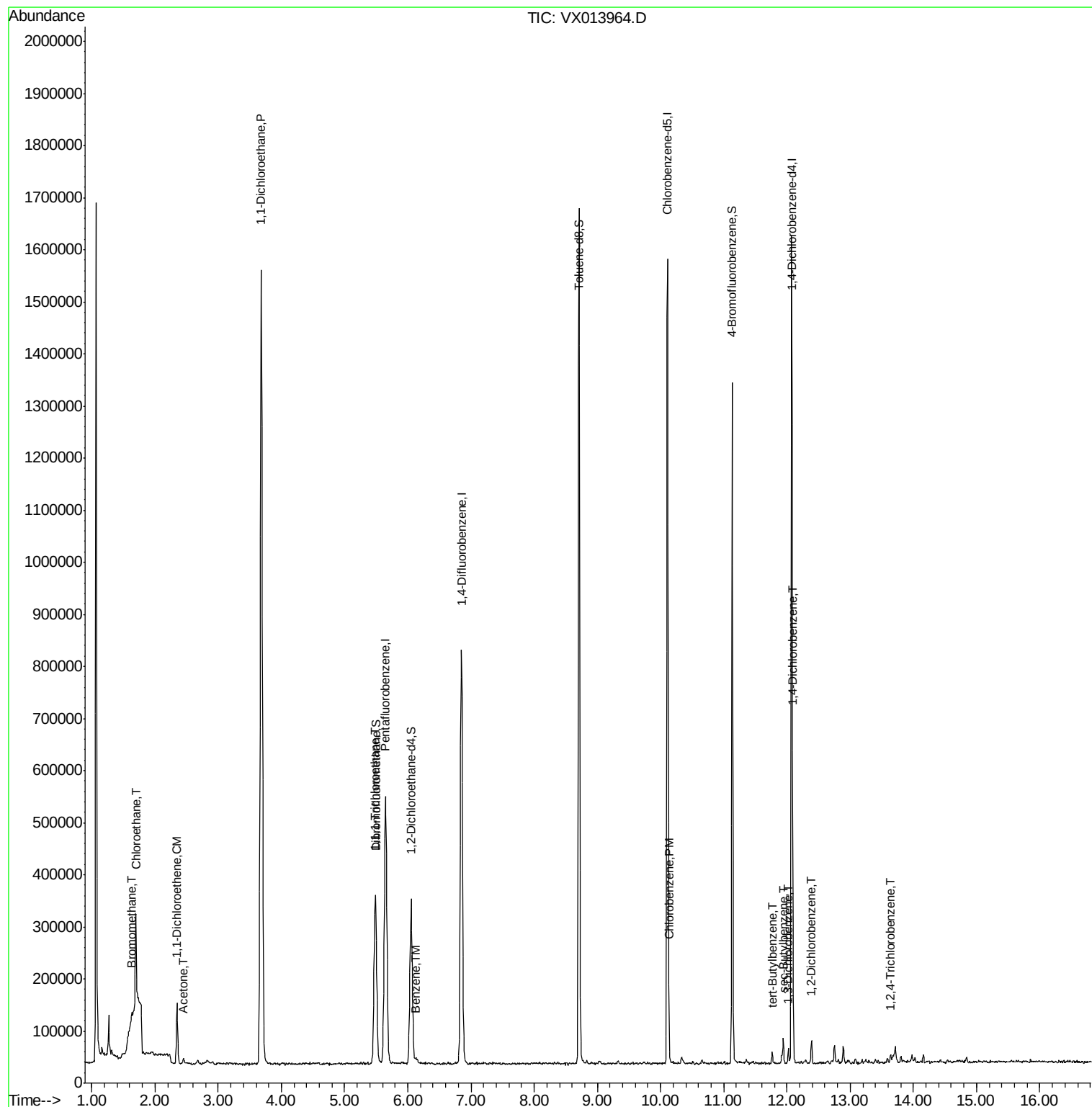
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	3114	0.617	ug/l	98
6) Chloroethane	1.70	64	108701	25.424	ug/l	99
12) 1,1-Dichloroethene	2.34	96	40893	8.039	ug/l	94
16) Acetone	2.45	43	8938	2.918	ug/l	99
24) 1,1-Dichloroethane	3.68	63	1741023	179.176	ug/l	99
32) 1,1,1-Trichloroethane	5.48	97	47204	5.732	ug/l	98
40) Benzene	6.13	78	11992	0.527	ug/l	98
65) Chlorobenzene	10.14	112	9929	0.664	ug/l #	86
83) tert-Butylbenzene	11.76	119	9266	0.480	ug/l	86
85) sec-Butylbenzene	11.94	105	29440	1.335	ug/l	82
87) 1,3-Dichlorobenzene	12.03	146	11082	1.015	ug/l	93
88) 1,4-Dichlorobenzene	12.09	146	45451	4.088	ug/l	94
91) 1,2-Dichlorobenzene	12.39	146	16056	1.489	ug/l	96
93) 1,2,4-Trichlorobenzene	13.64	180	3899	0.519	ug/l #	85

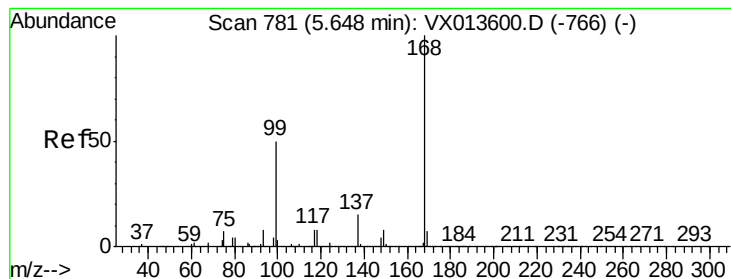
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

MSVOA_X

ClientSampleId :

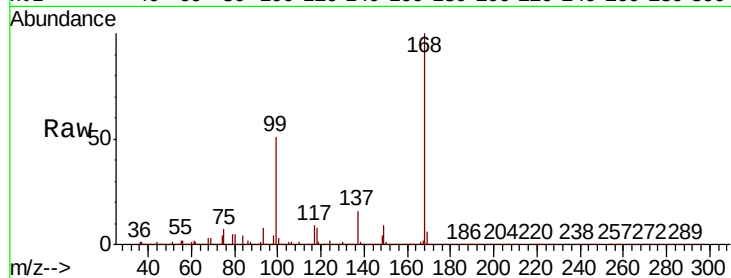
SA-PZ190I-20191208

Tot Ion:168 Resp: 534500

Ion Ratio Lower Upper

168 100

99 50.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

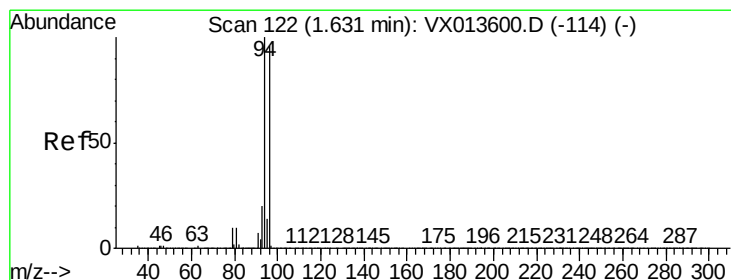
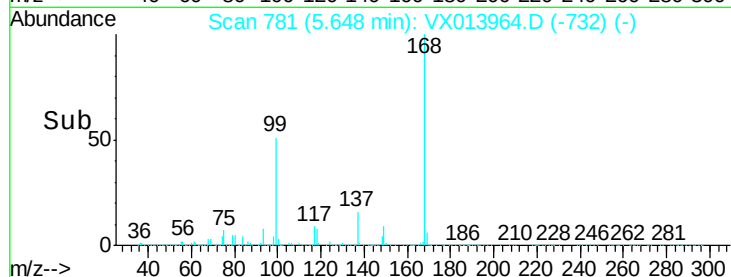
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.617 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX013964.D

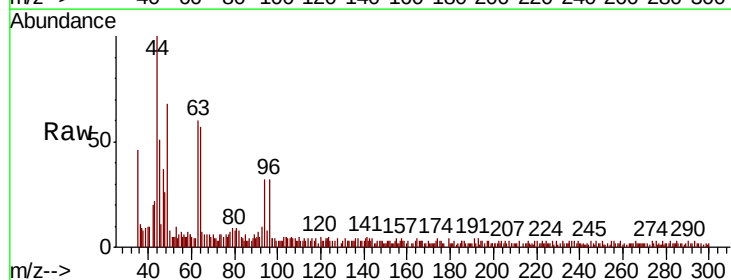
Acq: 12 Dec 2019 00:30

Tgt Ion: 94 Resp: 3114

Ion Ratio Lower Upper

94 100

96 98.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

3000

2500

2000

1500

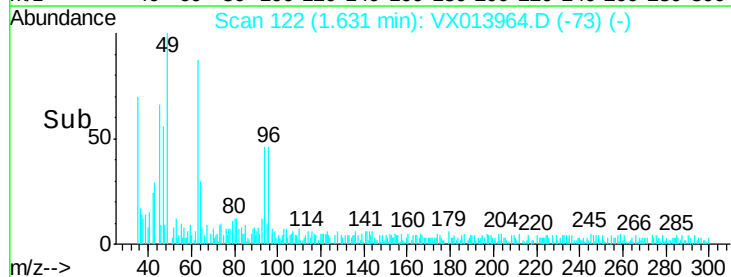
1000

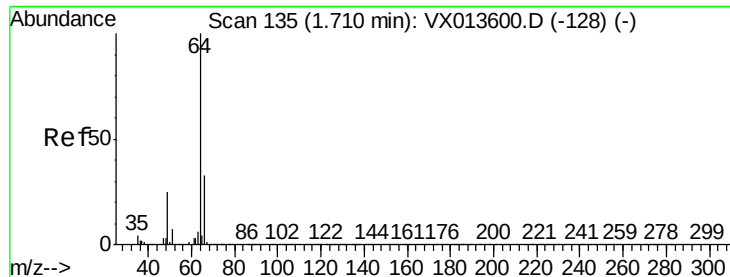
500

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 25.424 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

MSVOA_X

ClientSampleId :

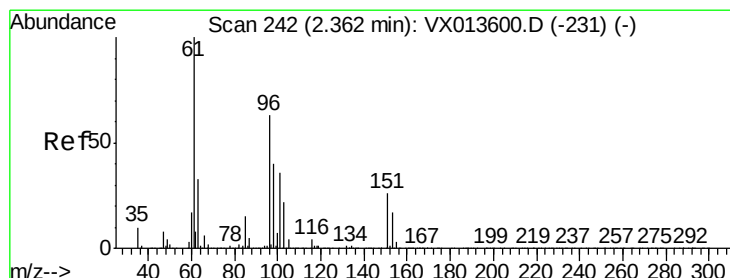
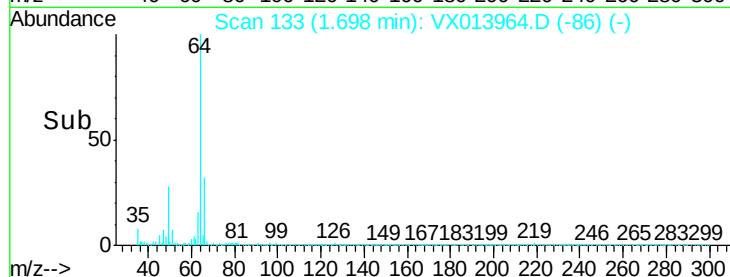
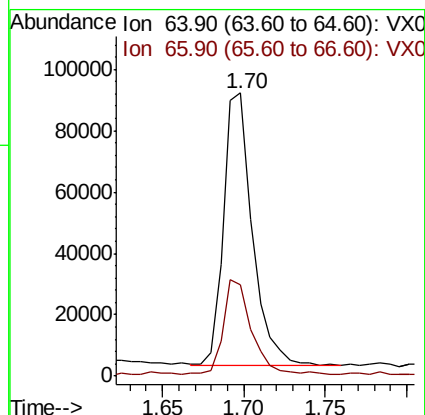
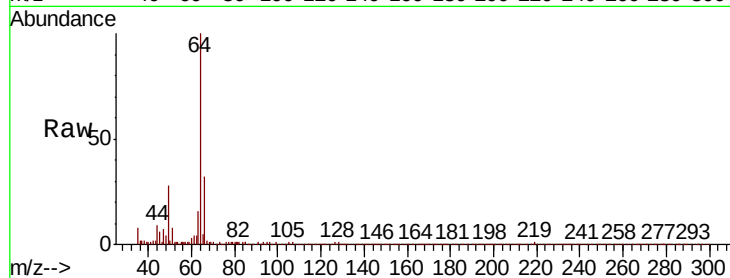
SA-PZ190I-20191208

Tot Ion: 64 Resp: 108701

Ion Ratio Lower Upper

64 100

66 32.8 26.7 40.1



#12

1,1-Dichloroethene

Concen: 8.039 ug/l

RT: 2.34 min Scan# 239

Delta R.T. -0.02 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

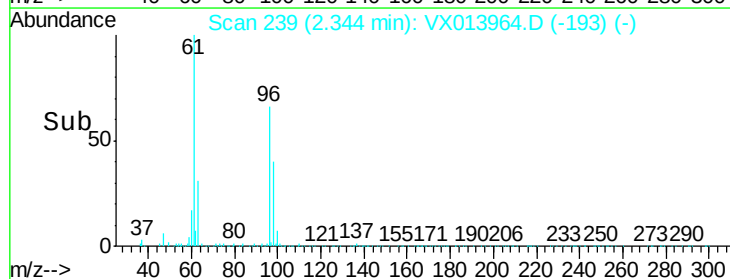
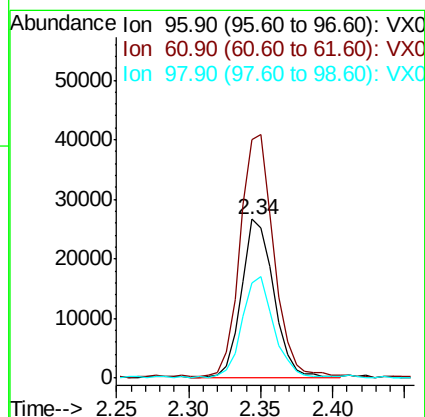
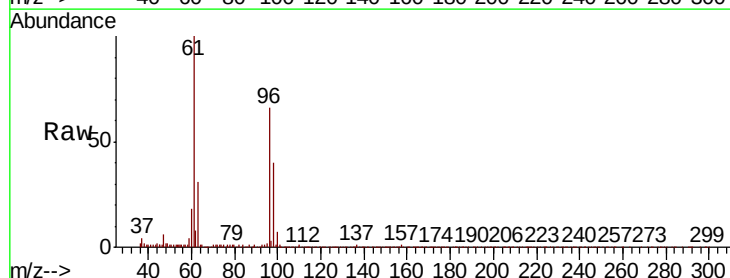
Tgt Ion: 96 Resp: 40893

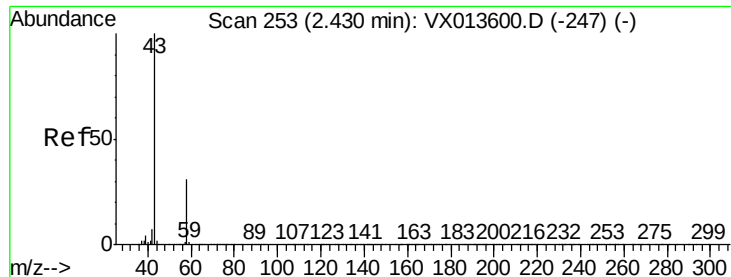
Ion Ratio Lower Upper

96 100

61 149.8 126.6 190.0

98 60.1 50.6 76.0

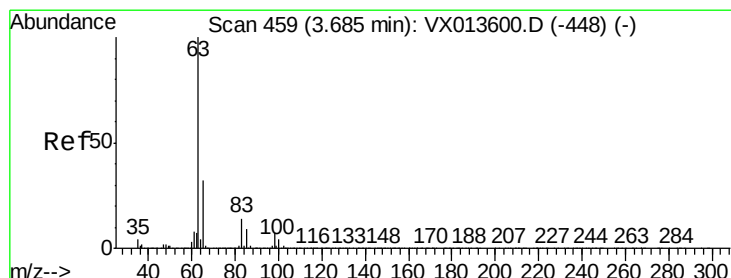
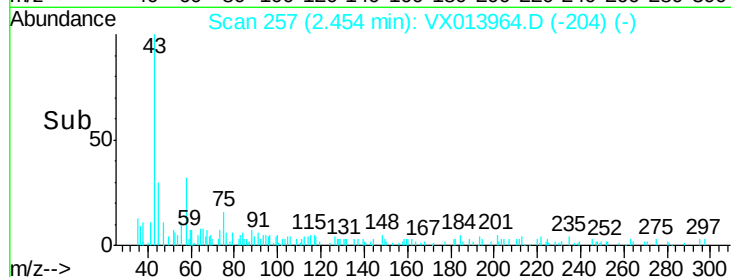
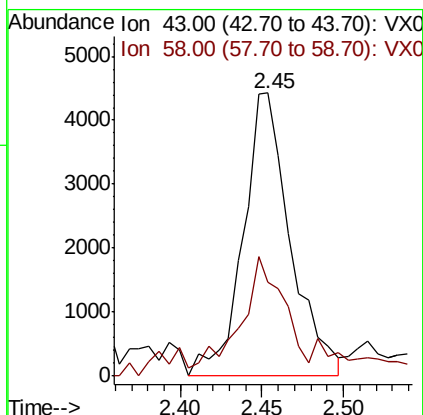
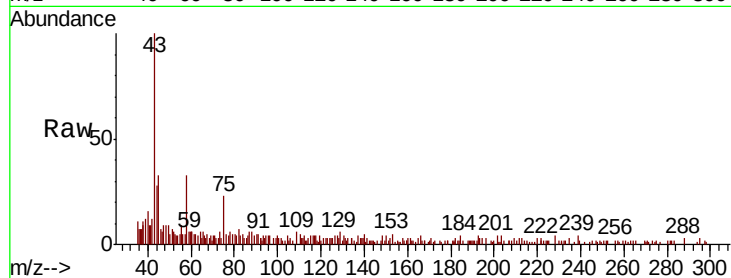




#16
Acetone
Concen: 2.918 ug/l
RT: 2.45 min Scan# 257
Delta R.T. 0.02 min
Lab File: VX013964.D
Acq: 12 Dec 2019 00:30

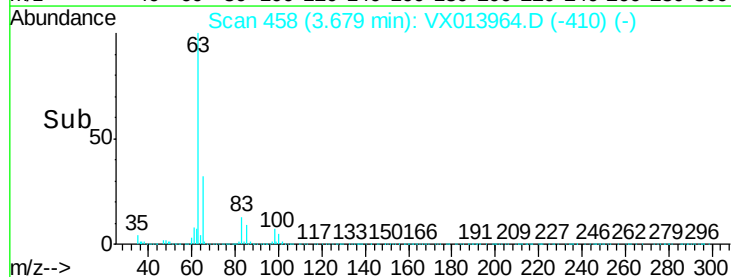
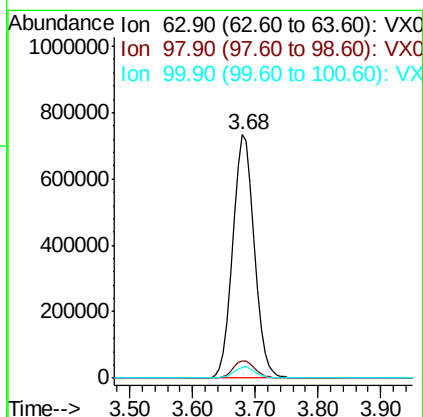
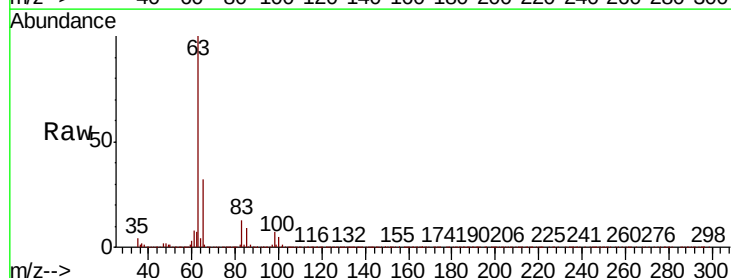
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ190I-20191208

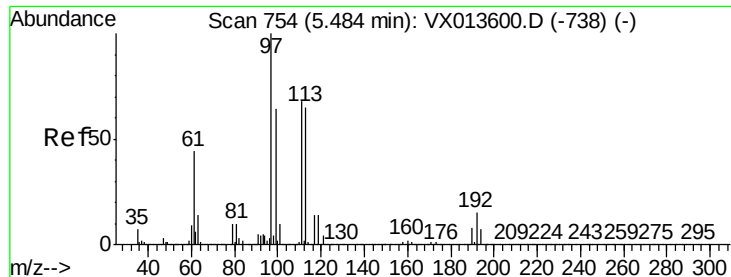
Tot Ion: 43 Resp: 8938
Ion Ratio Lower Upper
43 100
58 30.4 24.6 36.8



#24
1,1-Dichloroethane
Concen: 179.176 ug/l
RT: 3.68 min Scan# 458
Delta R.T. -0.01 min
Lab File: VX013964.D
Acq: 12 Dec 2019 00:30

Tgt Ion: 63 Resp: 1741023
Ion Ratio Lower Upper
63 100
98 7.1 3.5 10.4
100 4.5 2.1 6.3





#32

1,1,1-Trichloroethane

Concen: 5.732 ug/l

RT: 5.48 min Scan# 753

Delta R.T. -0.01 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ190I-20191208

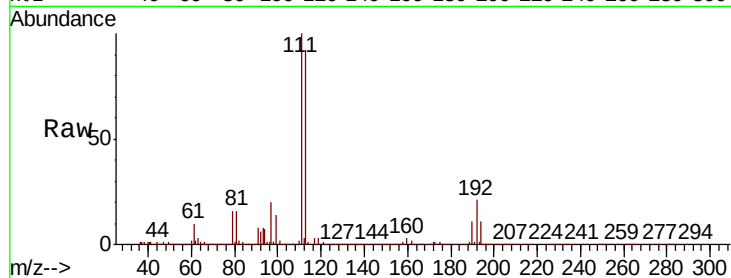
Tot Ion: 97 Resp: 47204

Ion Ratio Lower Upper

97 100

99 64.3 51.6 77.4

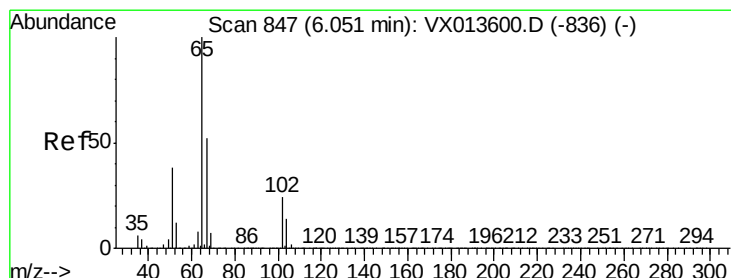
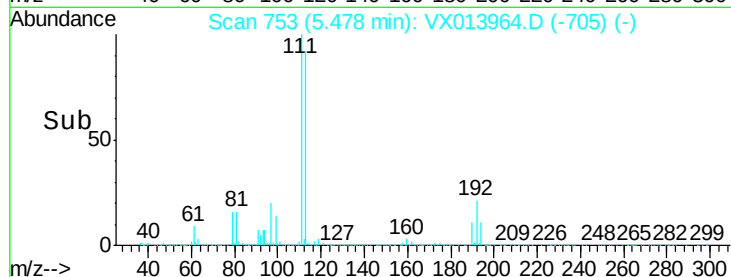
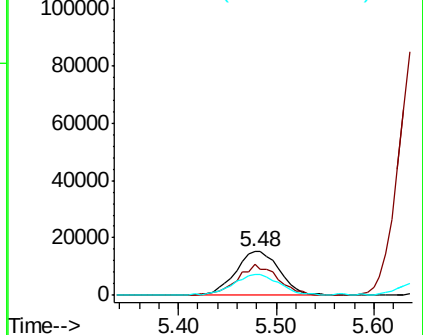
61 48.0 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.754 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013964.D

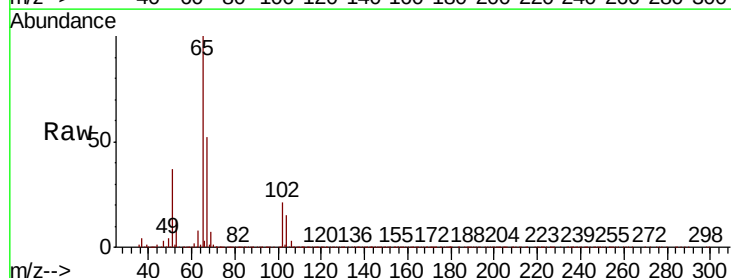
Acq: 12 Dec 2019 00:30

Tgt Ion: 65 Resp: 302485

Ion Ratio Lower Upper

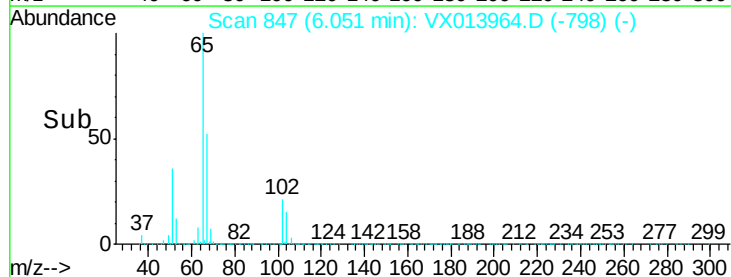
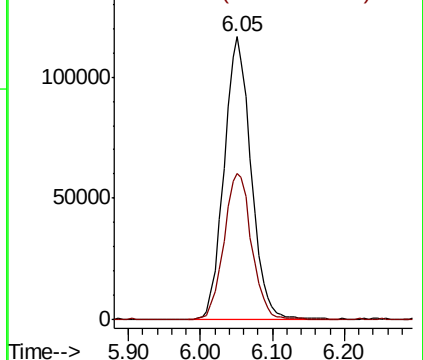
65 100

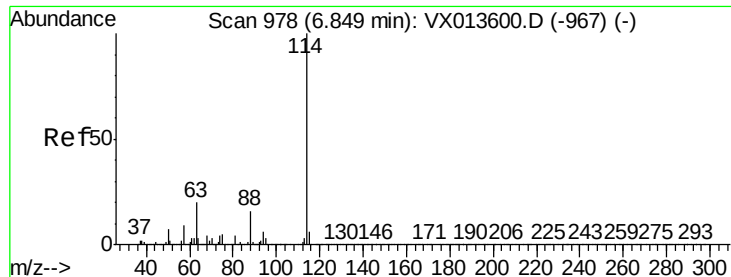
67 53.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

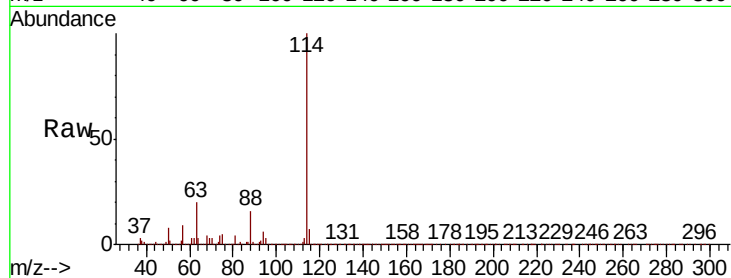




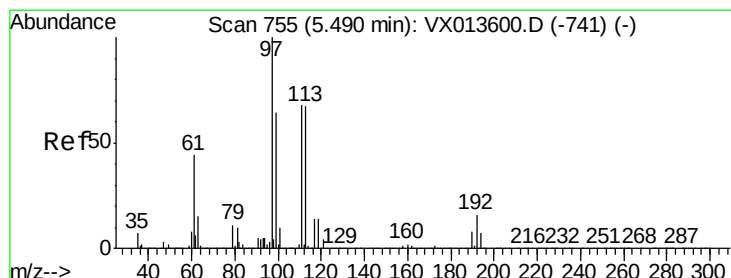
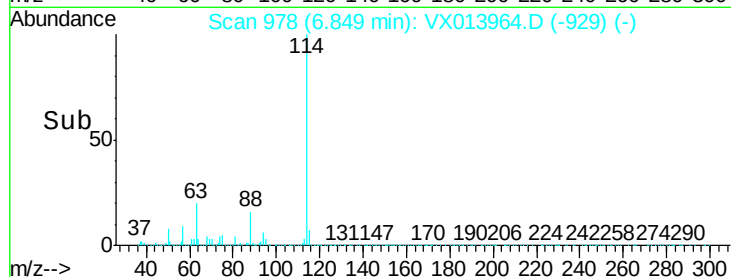
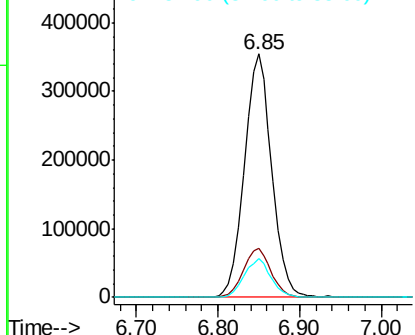
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013964.D
Acq: 12 Dec 2019 00:30

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ190I-20191208

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	15.8	0.0	31.4

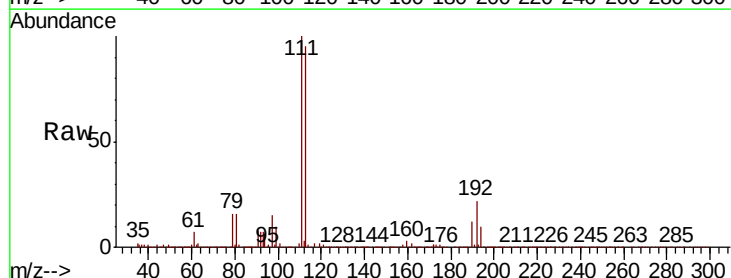


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

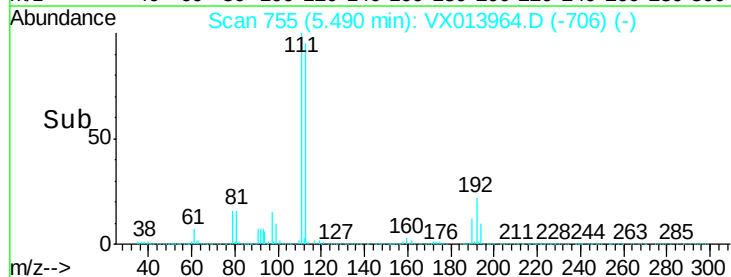
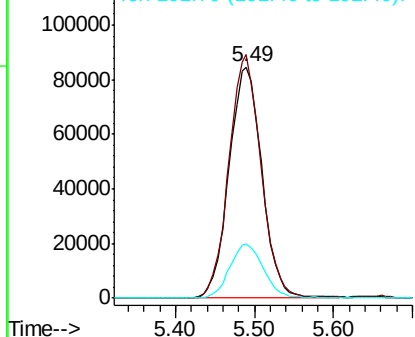


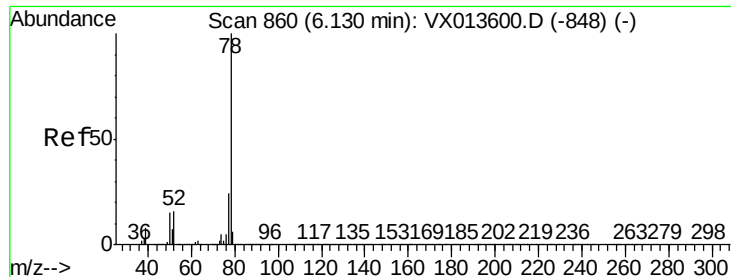
#35
Dibromofluoromethane
Concen: 47.909 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013964.D
Acq: 12 Dec 2019 00:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.6	125.4
192	24.2	19.2	28.8



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





#40

Benzene

Concen: 0.527 ug/l

RT: 6.13 min Scan# 860

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

MSVOA_X

ClientSampleId :

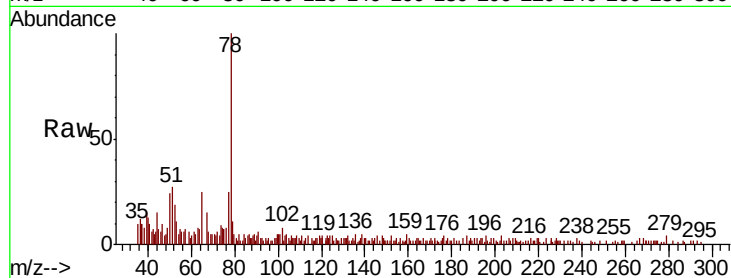
SA-PZ190I-20191208

Tot Ion: 78 Resp: 11992

Ion Ratio Lower Upper

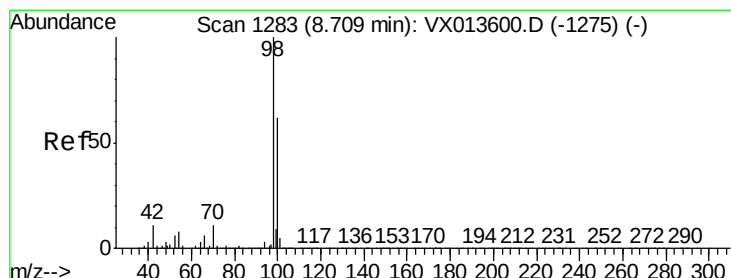
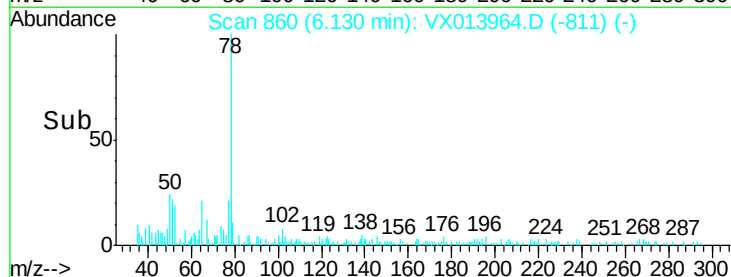
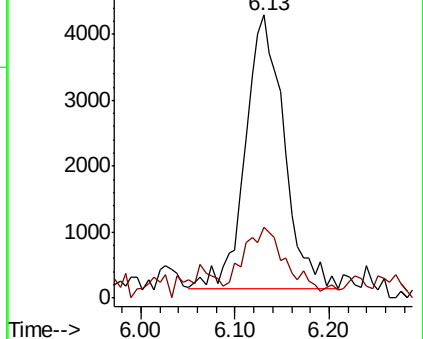
78 100

77 22.9 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 49.113 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013964.D

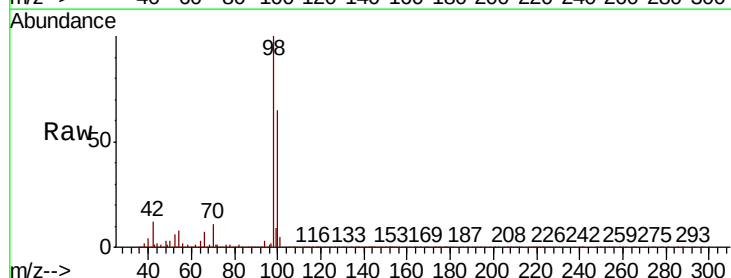
Acq: 12 Dec 2019 00:30

Tgt Ion: 98 Resp: 973507

Ion Ratio Lower Upper

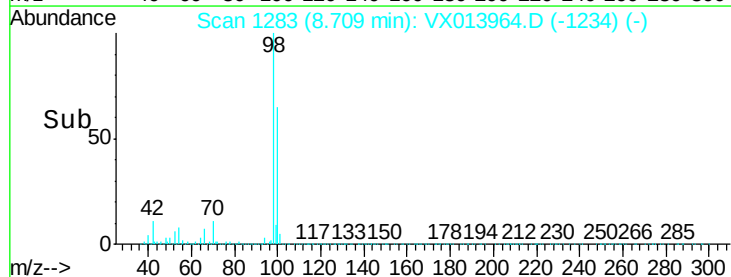
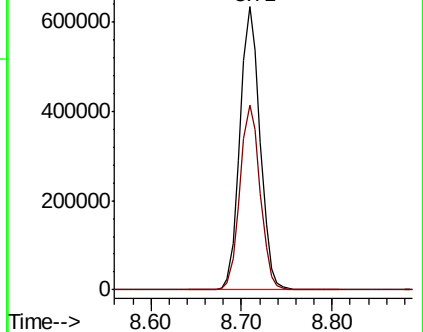
98 100

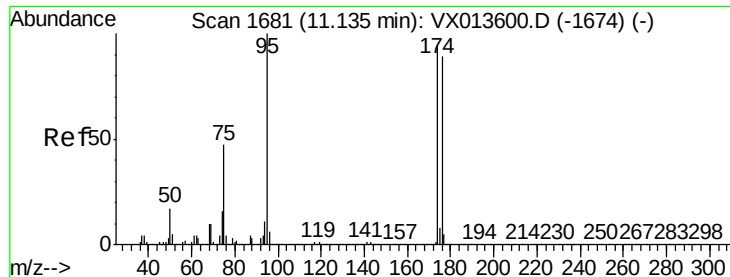
100 65.8 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.272 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

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ClientSampleId :

SA-PZ190I-20191208

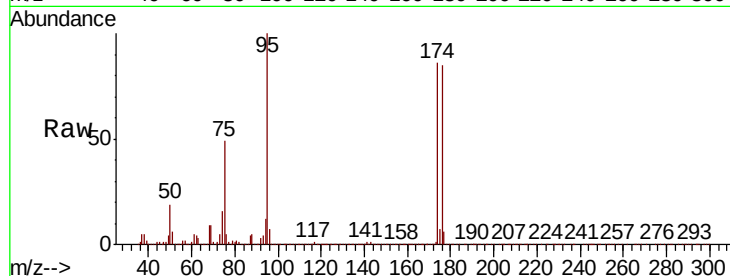
Tot Ion: 95 Resp: 330740

Ion Ratio Lower Upper

95 100

174 87.9 0.0 180.0

176 84.6 0.0 173.6

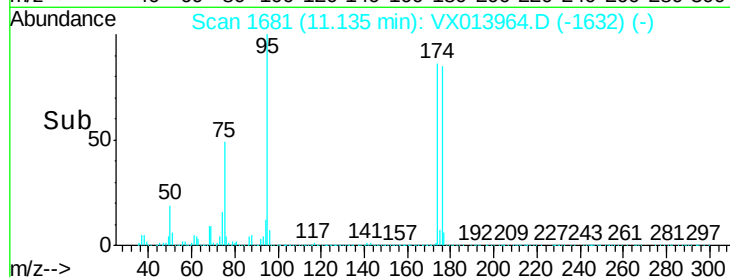


Abundance Ion 94.90 (94.60 to 95.60): VX013964.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013964.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013964.D (-1674) (-)

Time-->

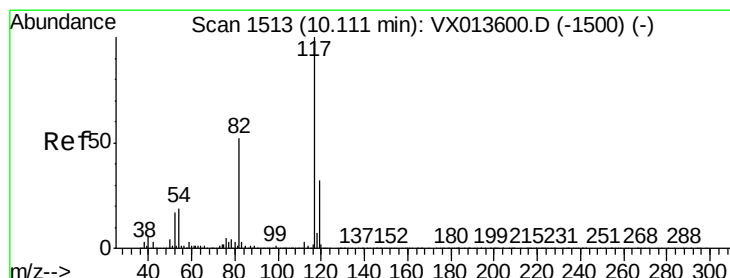


Abundance Ion 94.90 (94.60 to 95.60): VX013964.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013964.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013964.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

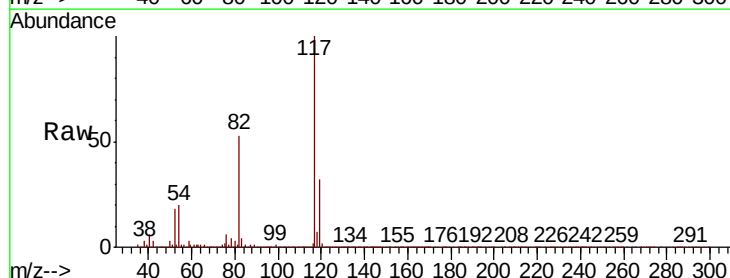
Tgt Ion: 117 Resp: 720168

Ion Ratio Lower Upper

117 100

82 53.1 41.8 62.8

119 32.3 25.8 38.8

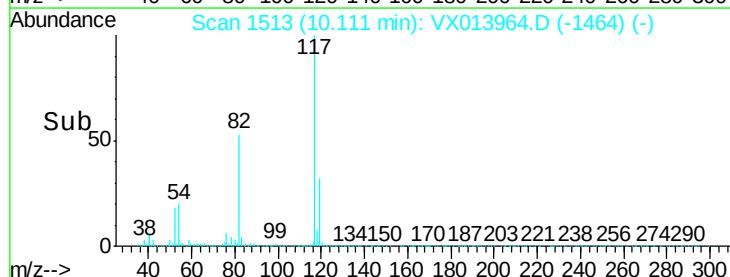


Abundance Ion 116.90 (116.60 to 117.60): VX013964.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013964.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013964.D (-1464) (-)

Time-->

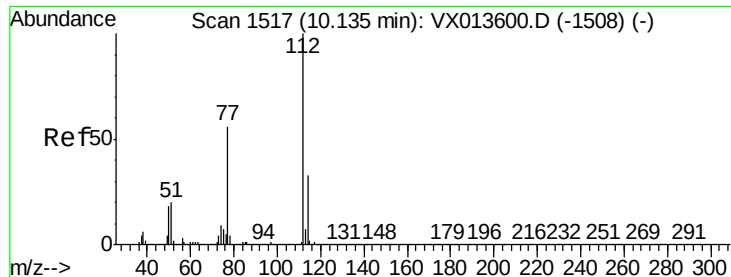


Abundance Ion 116.90 (116.60 to 117.60): VX013964.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013964.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013964.D (-1464) (-)

Time-->



#65

Chlorobenzene

Concen: 0.664 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

MSVOA_X

ClientSampleId :

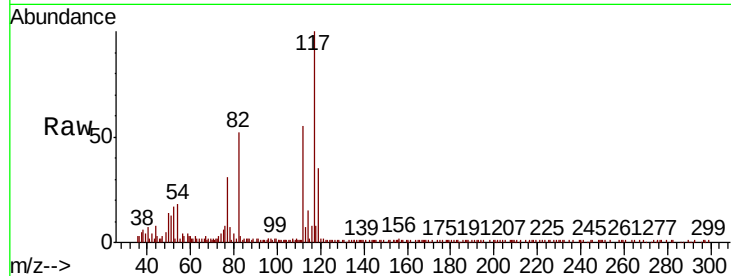
SA-PZ190I-20191208

Tot Ion:112 Resp: 9929

Ion Ratio Lower Upper

112 100

114 25.0 26.1 39.1#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

8000

6000

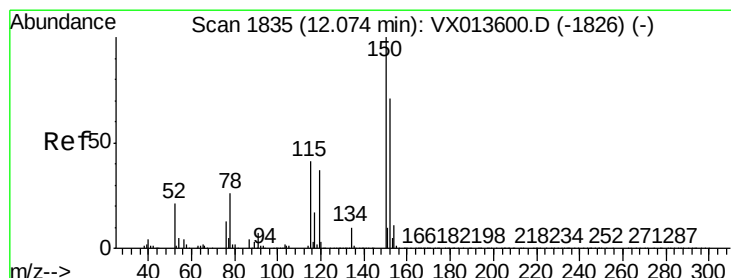
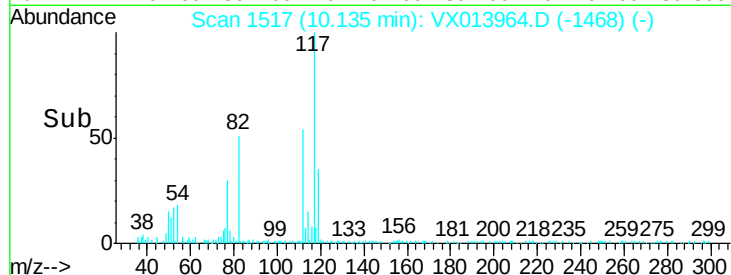
4000

2000

0

Time-->

10.05 10.10 10.15 10.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

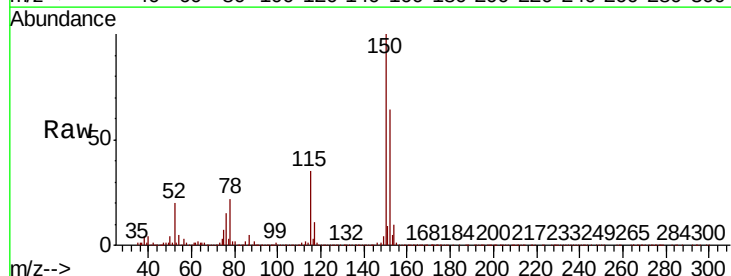
Tgt Ion:152 Resp: 330437

Ion Ratio Lower Upper

152 100

115 55.0 38.4 115.1

150 156.2 0.0 346.8



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

600000

500000

400000

300000

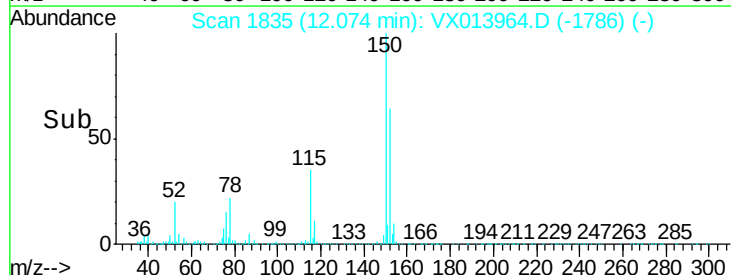
200000

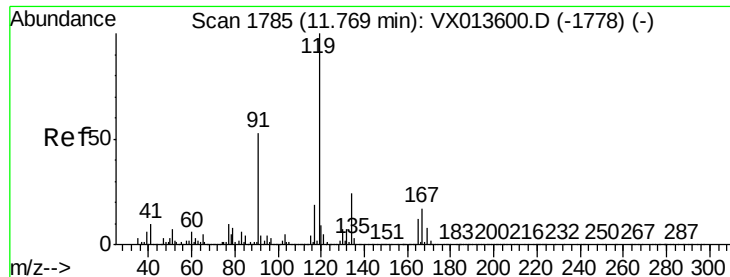
100000

0

Time-->

12.00 12.10

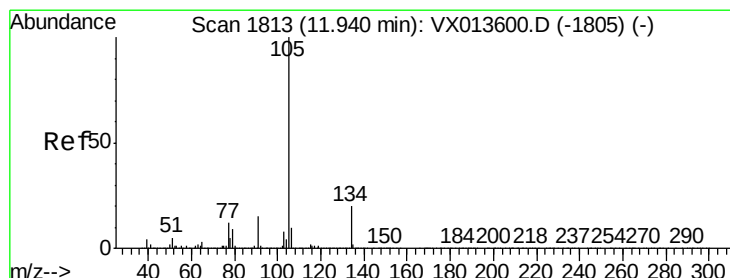
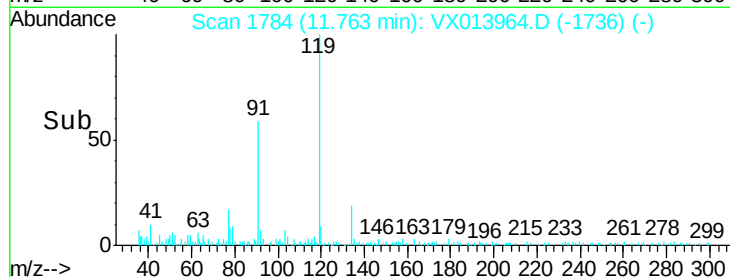
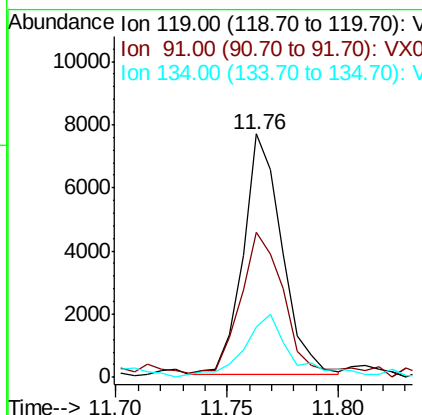
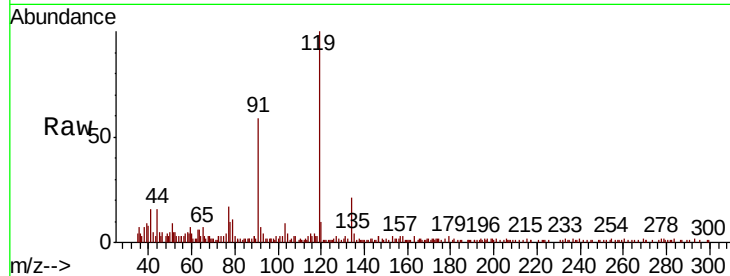




#83
tert-Butylbenzene
Concen: 0.480 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. -0.01 min
Lab File: VX013964.D
Acq: 12 Dec 2019 00:30

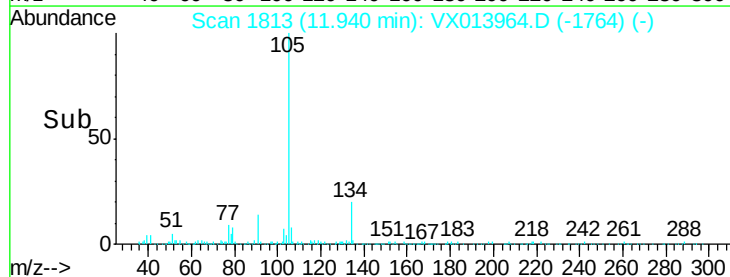
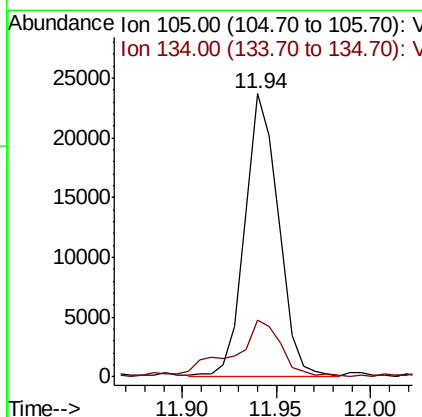
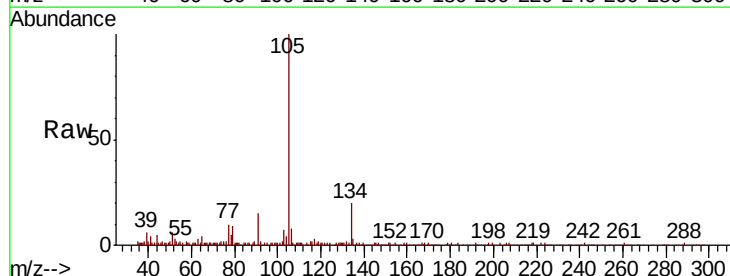
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ190I-20191208

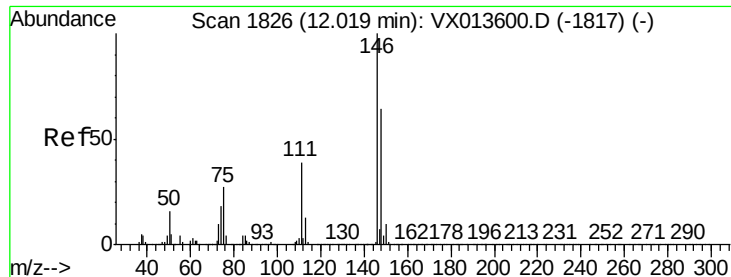
Tot Ion:119 Resp: 9266
Ion Ratio Lower Upper
119 100
91 63.4 27.2 81.6
134 32.2 11.7 35.1



#85
sec-Butylbenzene
Concen: 1.335 ug/l
RT: 11.94 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VX013964.D
Acq: 12 Dec 2019 00:30

Tgt Ion:105 Resp: 29440
Ion Ratio Lower Upper
105 100
134 29.0 10.4 31.2

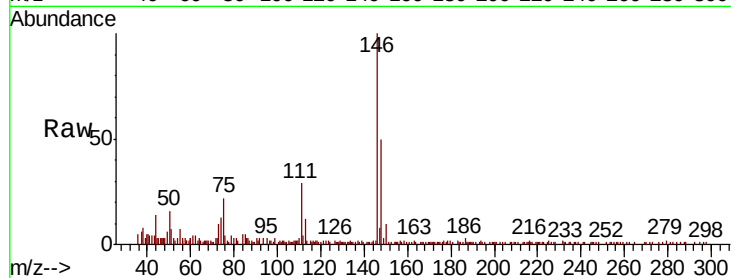




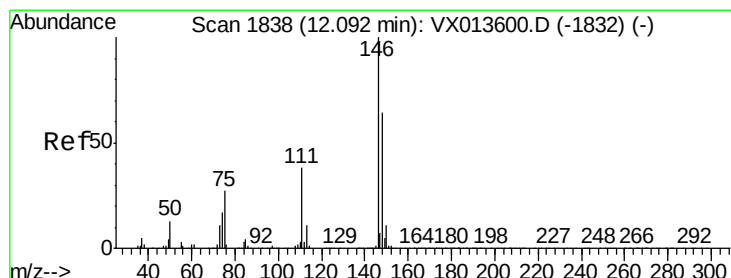
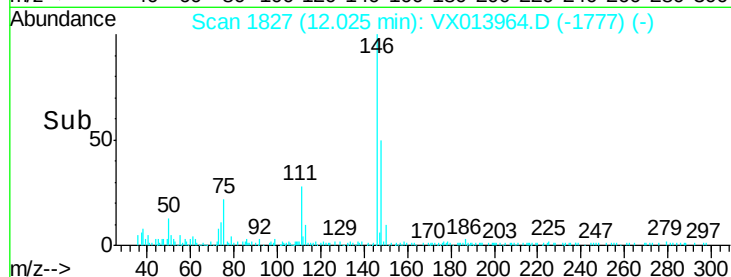
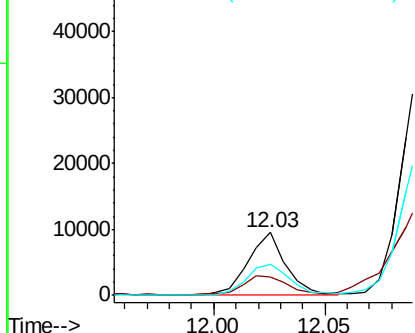
#87
 1,3-Dichlorobenzene
 Concen: 1.015 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013964.D
 Acq: 12 Dec 2019 00:30

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ190I-20191208

Tot Ion:146 Resp: 11082
 Ion Ratio Lower Upper
 146 100
 111 40.5 19.0 57.0
 148 57.0 31.8 95.4

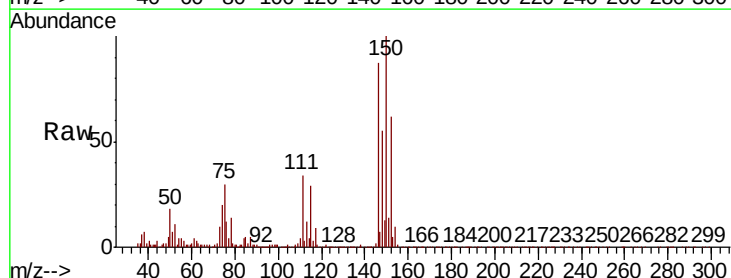


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

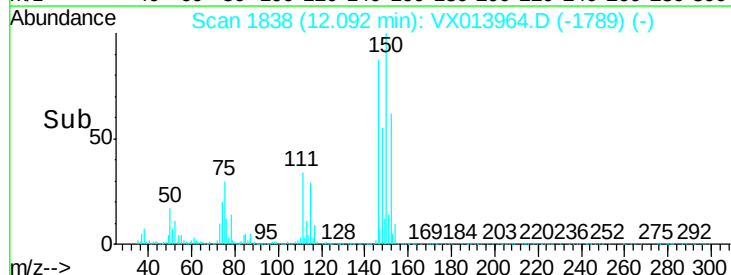
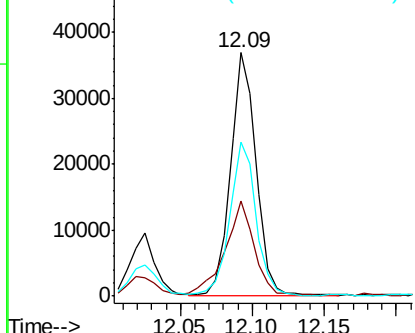


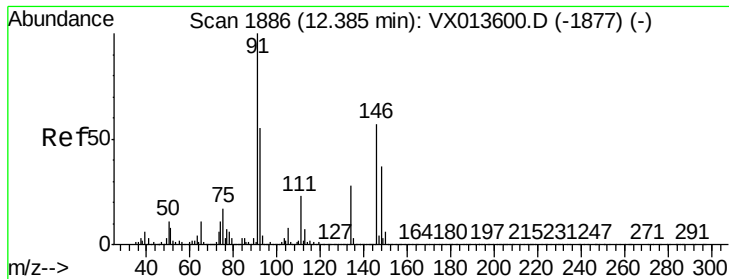
#88
 1,4-Dichlorobenzene
 Concen: 4.088 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013964.D
 Acq: 12 Dec 2019 00:30

Tgt Ion:146 Resp: 45451
 Ion Ratio Lower Upper
 146 100
 111 46.1 18.9 56.9
 148 65.3 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.489 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ190I-20191208

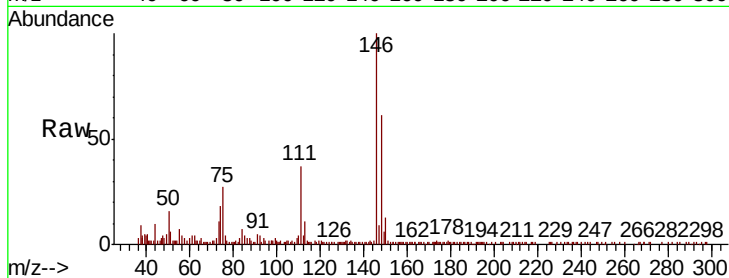
Tot Ion:146 Resp: 16056

Ion Ratio Lower Upper

146 100

111 39.9 19.6 58.7

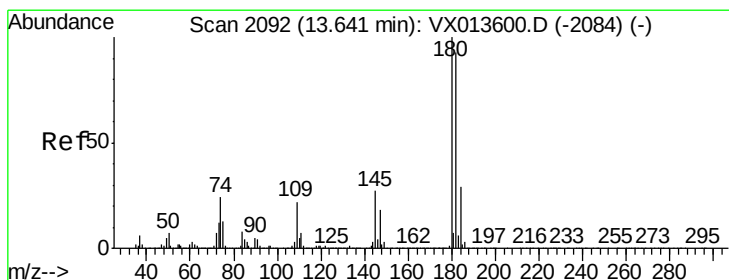
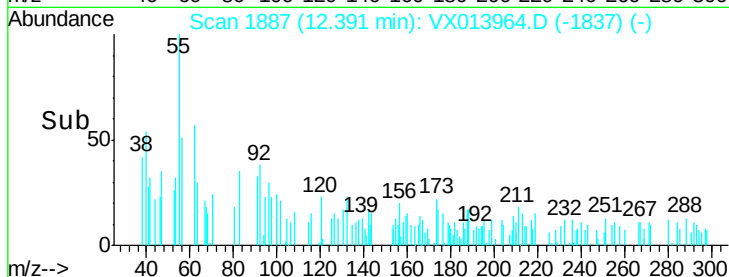
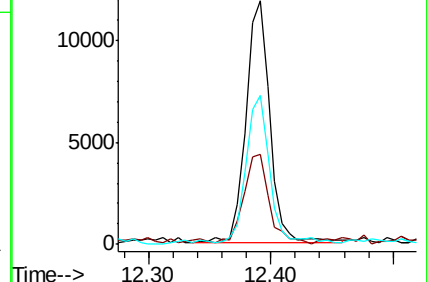
148 60.0 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.519 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX013964.D

Acq: 12 Dec 2019 00:30

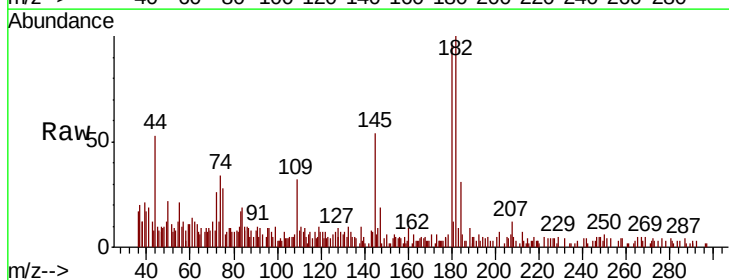
Tgt Ion:180 Resp: 3899

Ion Ratio Lower Upper

180 100

182 98.6 47.2 141.6

145 53.9 13.8 41.4#



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

