

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013973.D
 Acq On : 12 Dec 2019 14:26
 Operator : JC/SP
 Sample : K6249-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ191I-20191208

Quant Time: Dec 13 00:51:35 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	572322	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	877021	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	775938	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	330749	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	321806	48.44	ug/l	0.00
Spiked Amount			Recovery	=	96.88%	
35) Dibromofluoromethane	5.48	113	258768	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
50) Toluene-d8	8.71	98	1031655	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.13	95	339431	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	

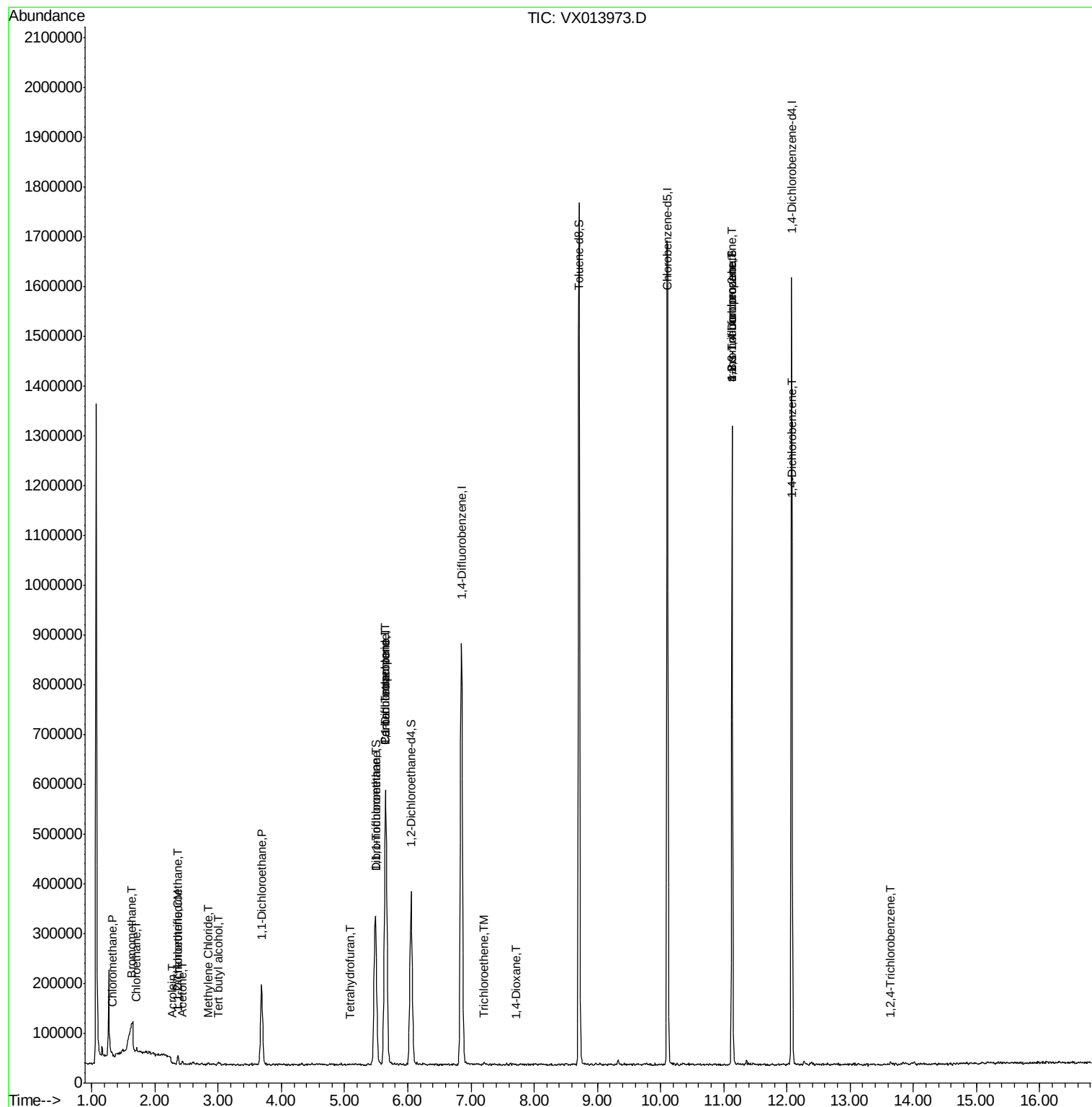
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	3245	0.454	ug/l #	81
5) Bromomethane	1.64	94	2692	0.498	ug/l	82
6) Chloroethane	1.70	64	4829	1.055	ug/l #	88
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1482	0.272	ug/l #	70
11) Tert butyl alcohol	3.00	59	3294	2.009	ug/l	96
12) 1,1-Dichloroethene	2.36	96	6230	1.144	ug/l #	82
13) Acrolein	2.27	56	467	6.419	ug/l #	68
16) Acetone	2.44	43	7562	2.306	ug/l	91
20) Methylene Chloride	2.84	84	1421	0.226	ug/l #	82
24) 1,1-Dichloroethane	3.69	63	185249	17.805	ug/l	99
29) Tetrahydrofuran	5.09	42	971	0.323	ug/l #	32
32) 1,1,1-Trichloroethane	5.49	97	4452	0.505	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	39181	4.922	ug/l #	50
38) Carbon Tetrachloride	5.65	117	50301	6.852	ug/l #	16
44) Trichloroethene	7.21	130	1956	0.294	ug/l	33
49) 1,4-Dioxane	7.72	88	167	1.044	ug/l #	24
76) 1,2,3-Trichloropropane	11.13	75	168364	22.632	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	168364	61.918	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	3351	0.301	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.64	180	1628	0.216	ug/l	84

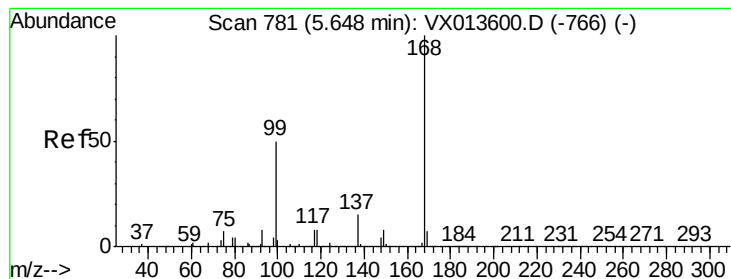
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

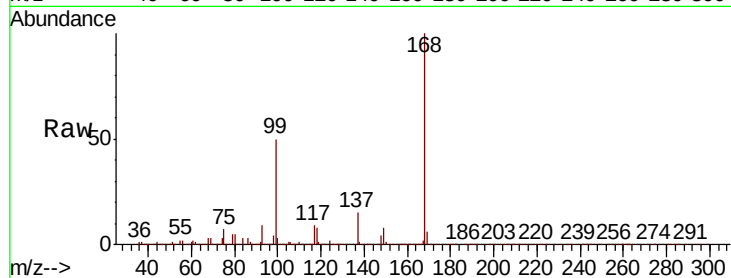
SA-PZ191I-20191208

Tot Ion:168 Resp: 572322

Ion Ratio Lower Upper

168 100

99 49.7 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

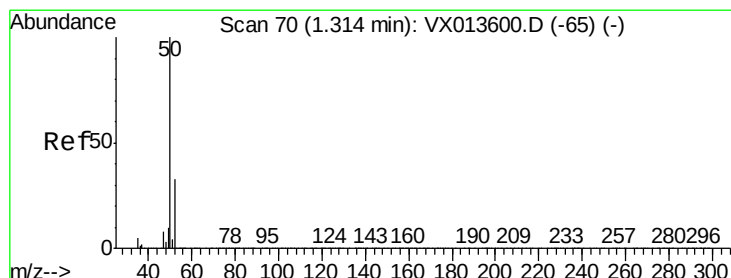
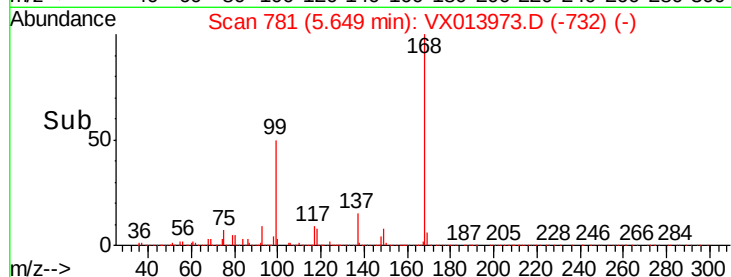
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: 0.454 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013973.D

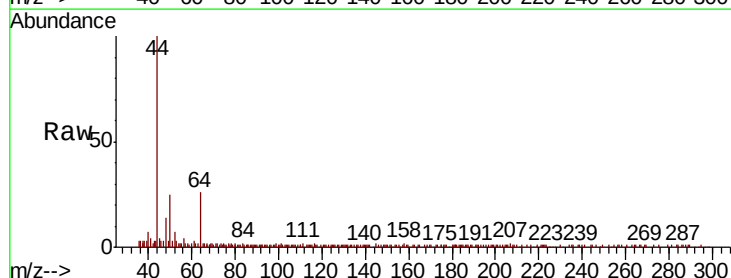
Acq: 12 Dec 2019 14:26

Tgt Ion: 50 Resp: 3245

Ion Ratio Lower Upper

50 100

52 21.9 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

4000

3000

2000

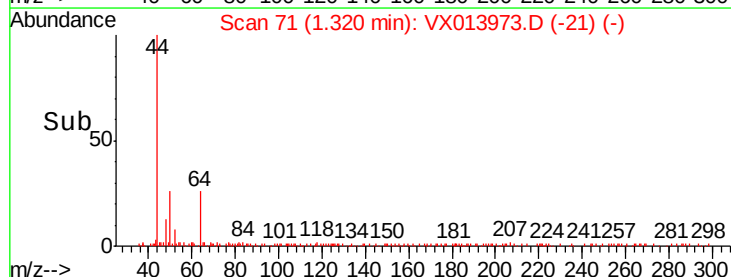
1000

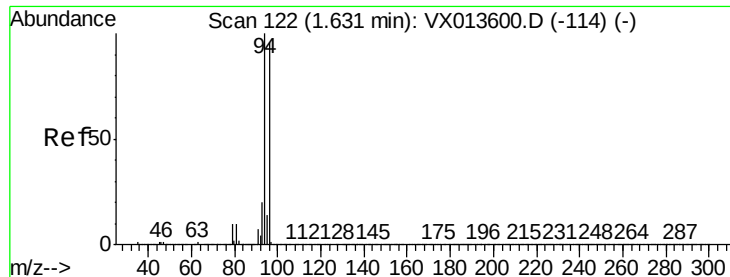
0

Time-->

1.30

1.35





#5

Bromomethane

Concen: 0.498 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

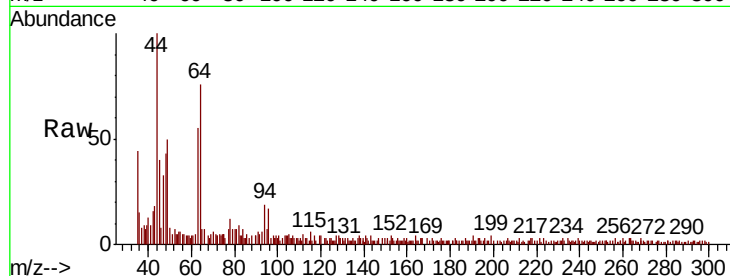
SA-PZ191I-20191208

Tot Ion: 94 Resp: 2692

Ion Ratio Lower Upper

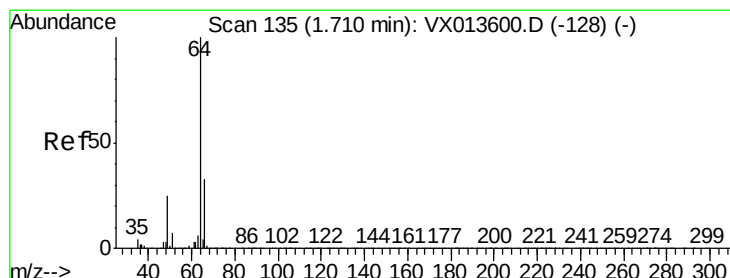
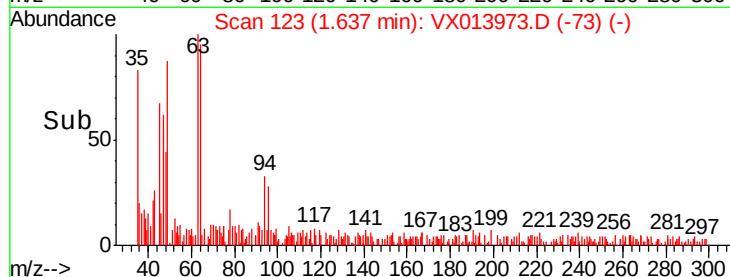
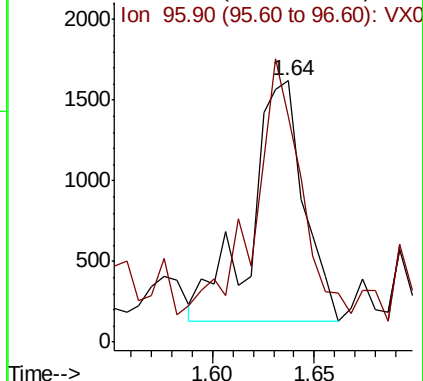
94 100

96 78.5 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.055 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX013973.D

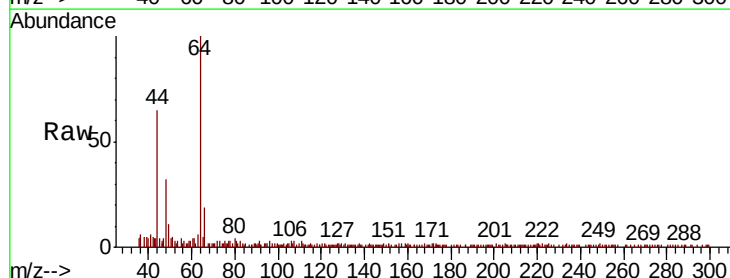
Acq: 12 Dec 2019 14:26

Tgt Ion: 64 Resp: 4829

Ion Ratio Lower Upper

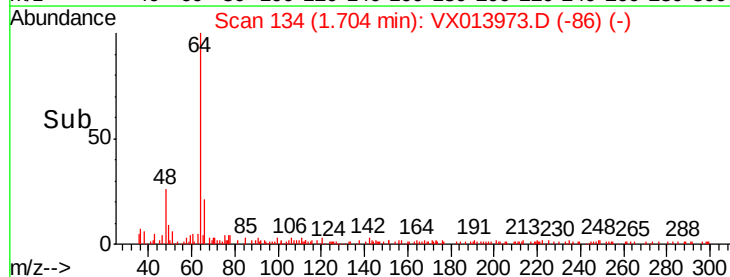
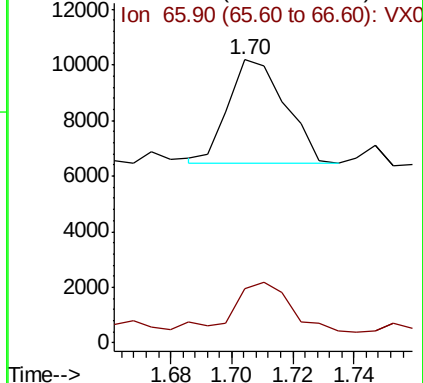
64 100

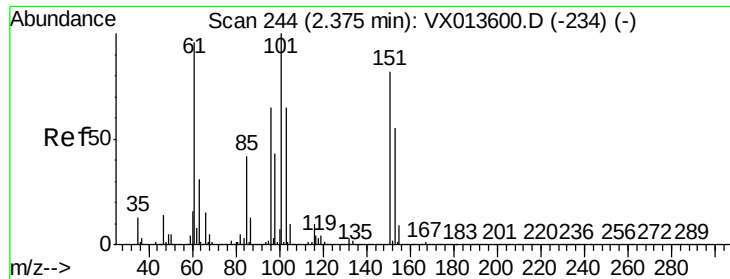
66 40.3 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.272 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

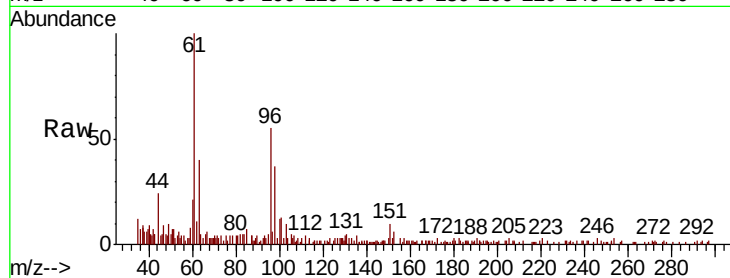
Tot Ion:101 Resp: 1482

Ion Ratio Lower Upper

101 100

85 20.6 33.9 50.9#

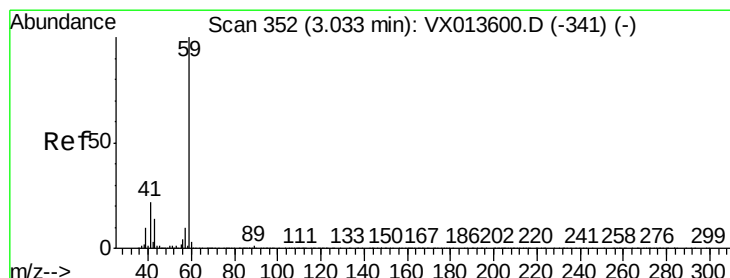
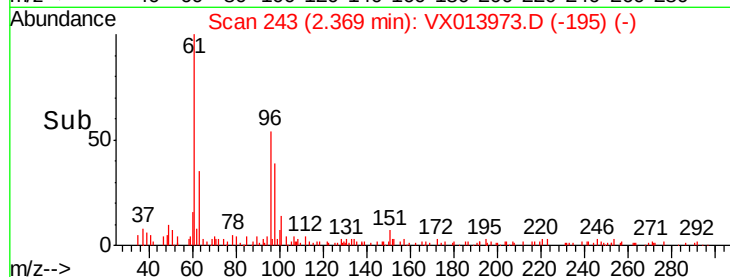
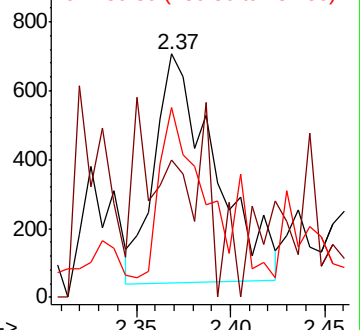
151 55.1 64.2 96.2#



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: 2.009 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.04 min

Lab File: VX013973.D

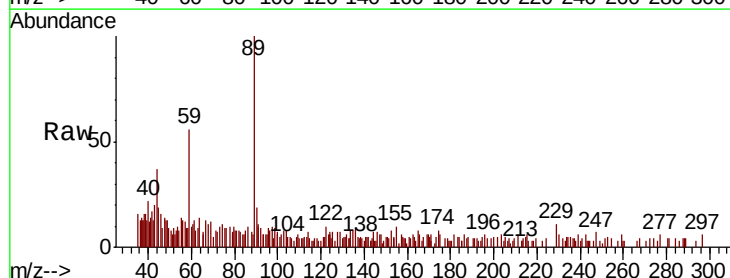
Acq: 12 Dec 2019 14:26

Tgt Ion: 59 Resp: 3294

Ion Ratio Lower Upper

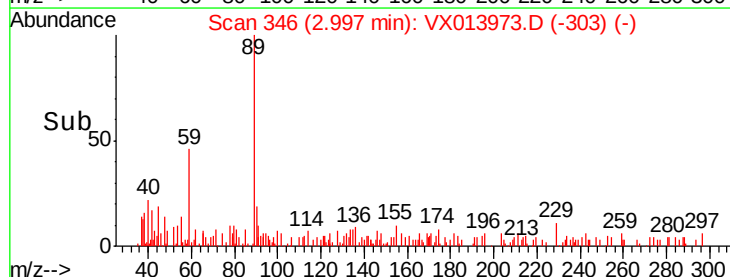
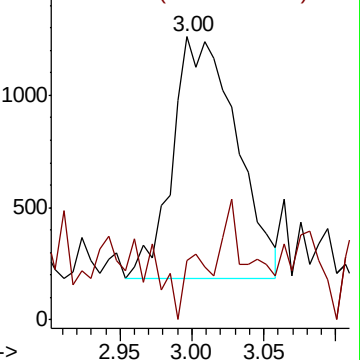
59 100

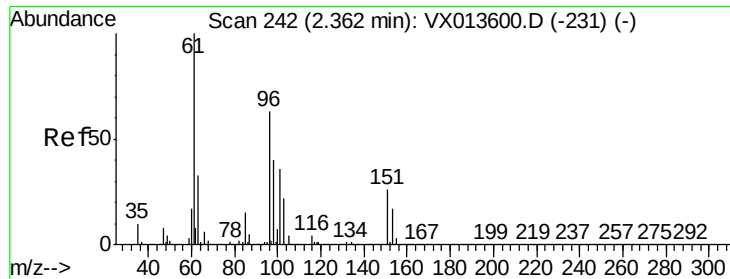
57 11.0 7.8 11.6



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.144 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

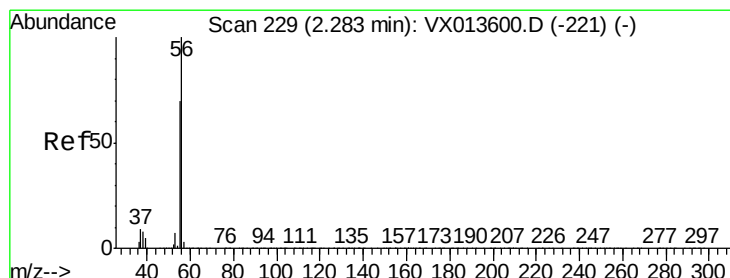
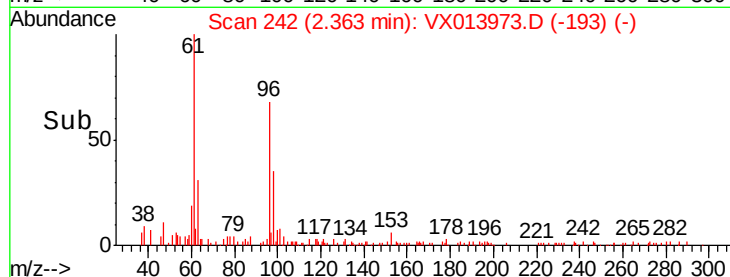
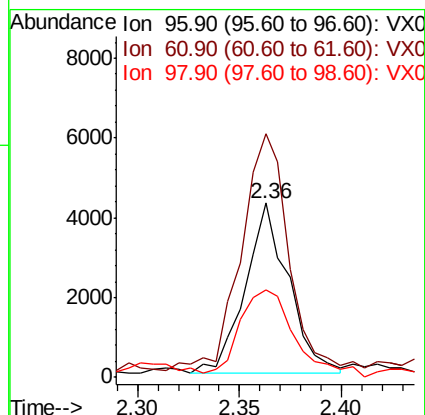
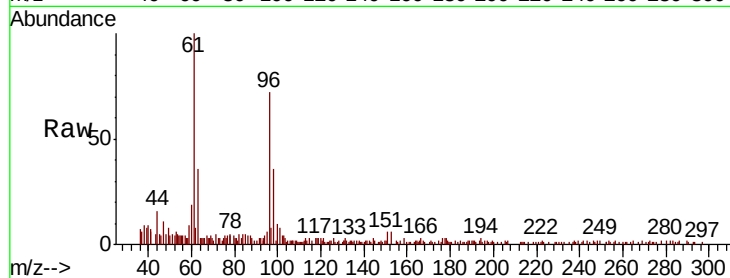
Tot Ion: 96 Resp: 6230

Ion Ratio Lower Upper

96 100

61 136.9 126.6 190.0

98 47.3 50.6 76.0#



#13

Acrolein

Concen: 6.419 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013973.D

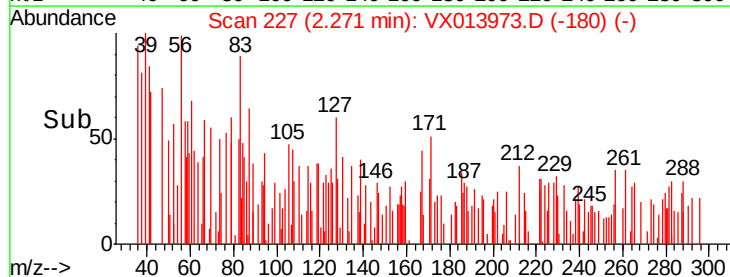
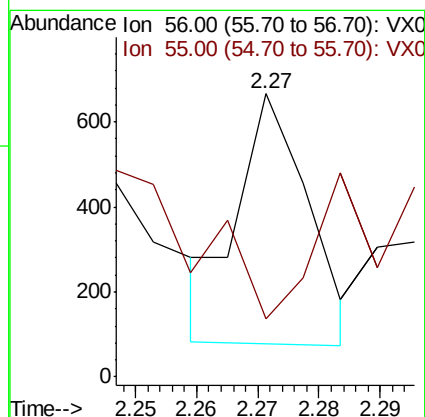
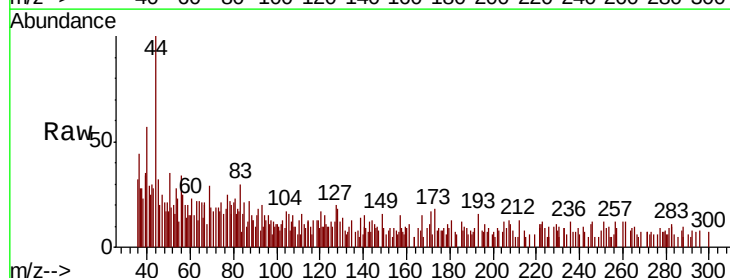
Acq: 12 Dec 2019 14:26

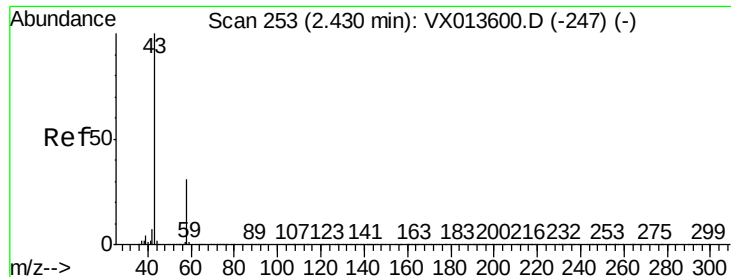
Tgt Ion: 56 Resp: 467

Ion Ratio Lower Upper

56 100

55 43.9 56.2 84.4#

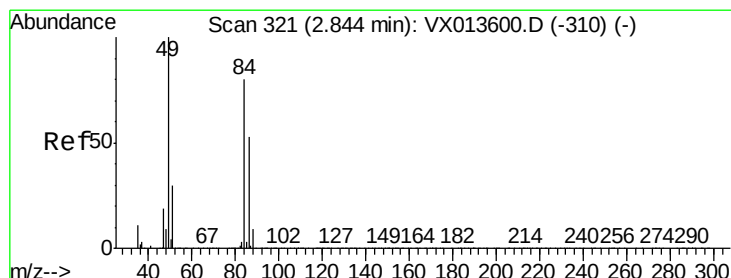
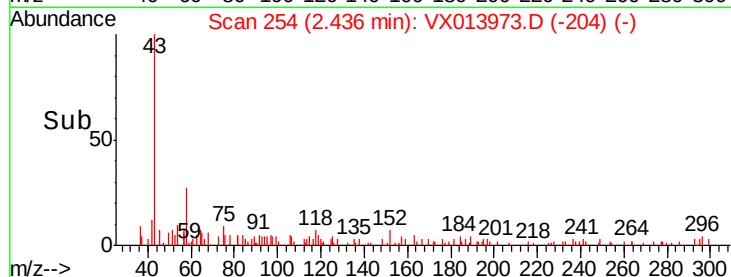
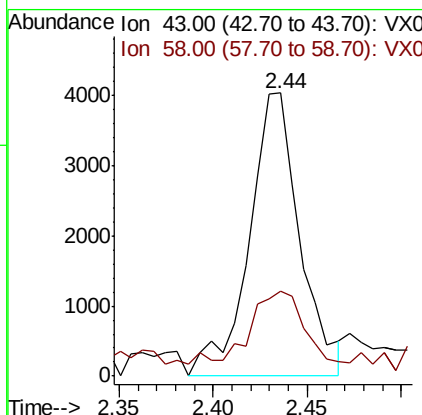
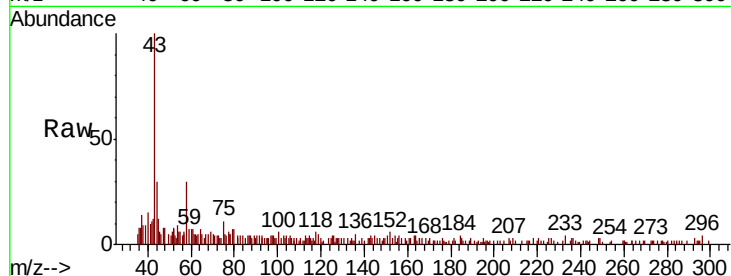




#16
Acetone
Concen: 2.306 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013973.D
Acq: 12 Dec 2019 14:26

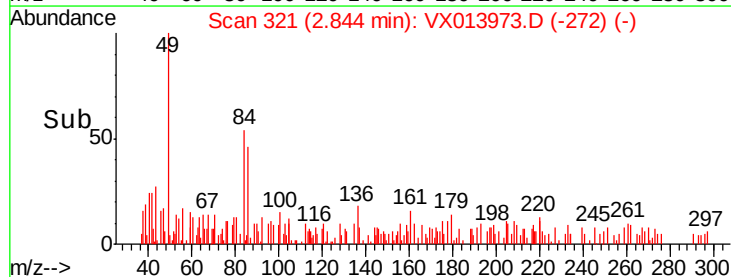
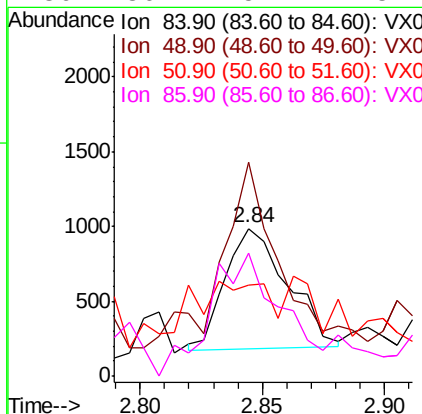
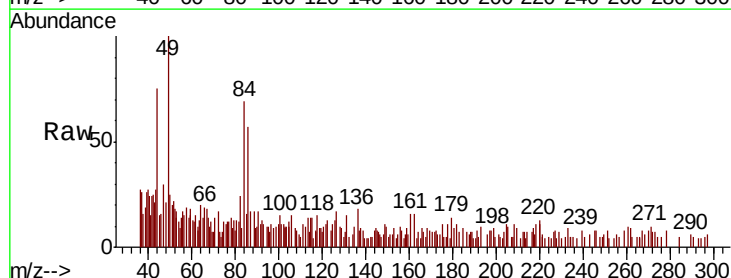
Instrument :
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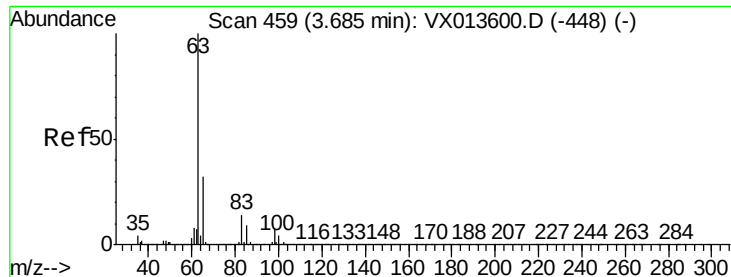
Tot Ion: 43 Resp: 7562
Ion Ratio Lower Upper
43 100
58 25.8 24.6 36.8



#20
Methylene Chloride
Concen: 0.226 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013973.D
Acq: 12 Dec 2019 14:26

Tgt Ion: 84 Resp: 1421
Ion Ratio Lower Upper
84 100
49 131.0 99.7 149.5
51 11.5 29.9 44.9#
86 86.4 52.2 78.4#





#24

1,1-Dichloroethane

Concen: 17.805 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

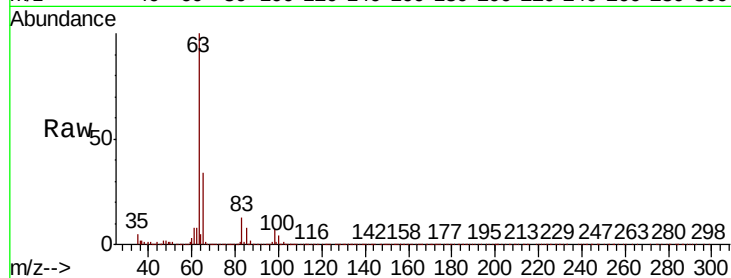
Tot Ion: 63 Resp: 185249

Ion Ratio Lower Upper

63 100

98 6.3 3.5 10.4

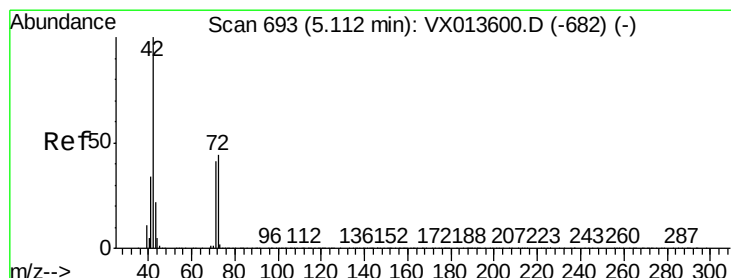
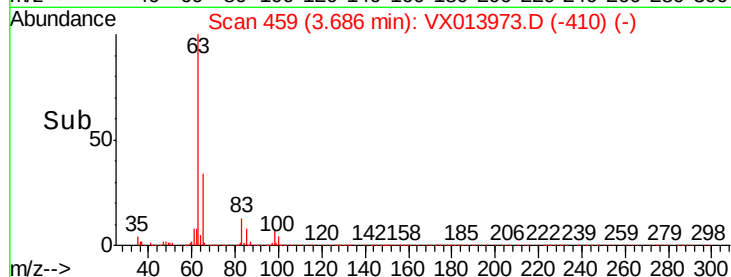
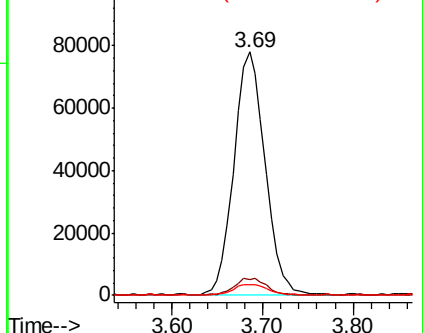
100 4.2 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#29

Tetrahydrofuran

Concen: 0.323 ug/l

RT: 5.09 min Scan# 689

Delta R.T. -0.02 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

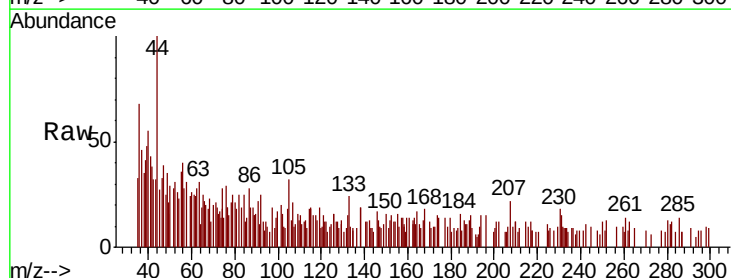
Tgt Ion: 42 Resp: 971

Ion Ratio Lower Upper

42 100

72 0.0 36.3 54.5#

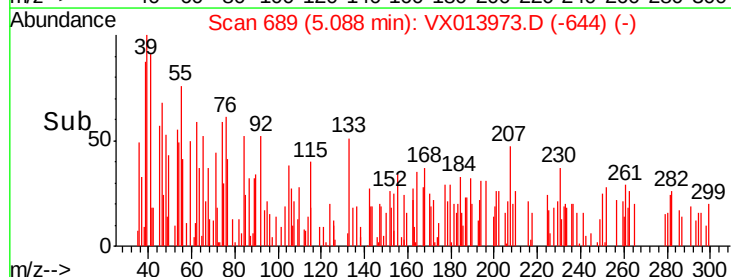
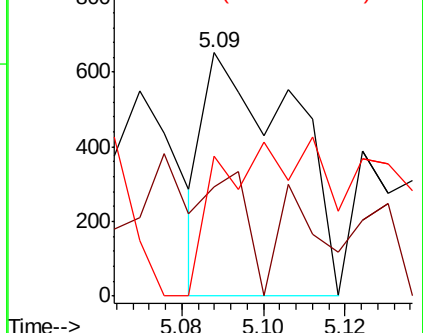
71 0.0 33.2 49.8#

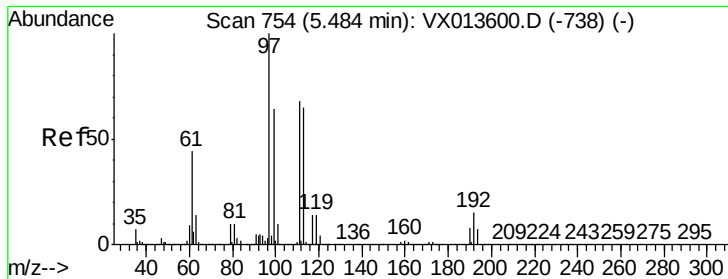


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#32

1,1,1-Trichloroethane

Concen: 0.505 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

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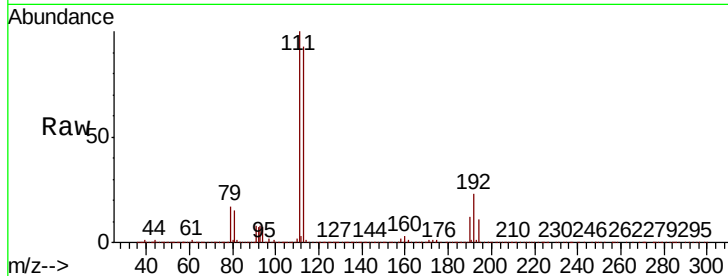
Tot Ion: 97 Resp: 4452

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

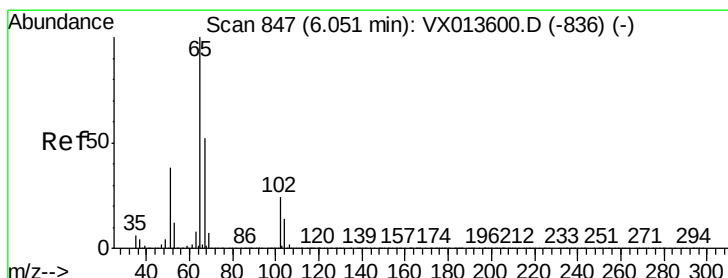
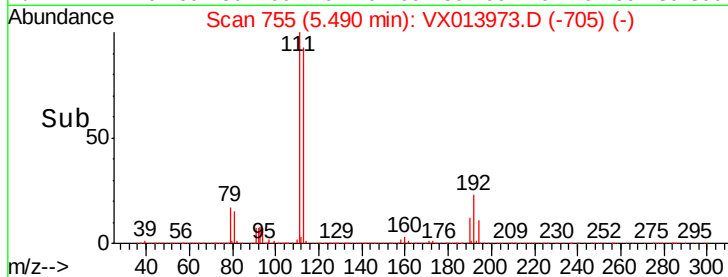
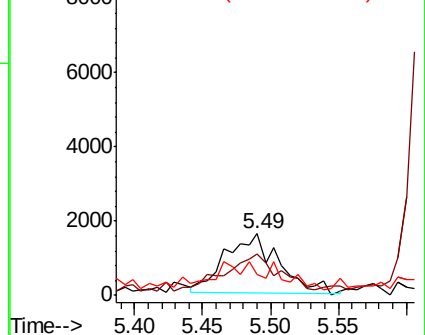
61 0.0 36.1 54.1#



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: 48.440 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013973.D

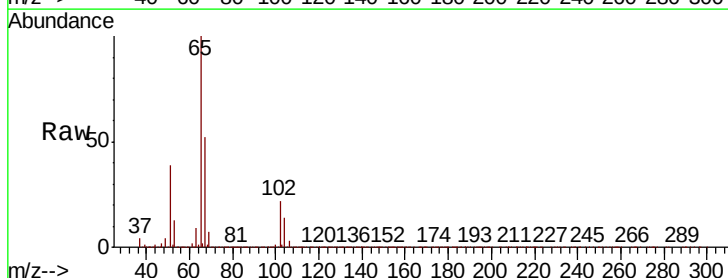
Acq: 12 Dec 2019 14:26

Tgt Ion: 65 Resp: 321806

Ion Ratio Lower Upper

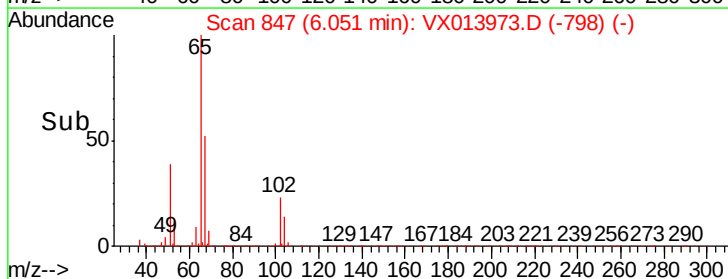
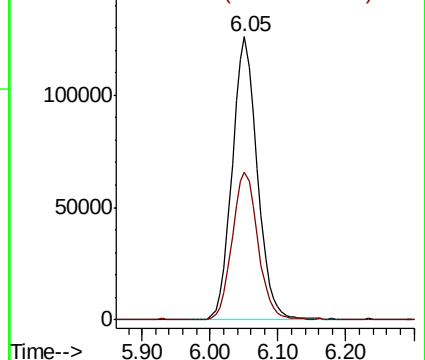
65 100

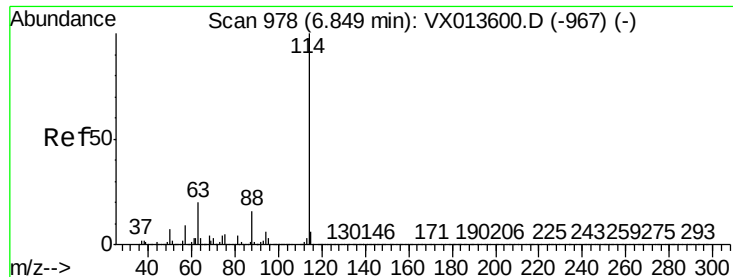
67 53.0 0.0 104.4



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: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

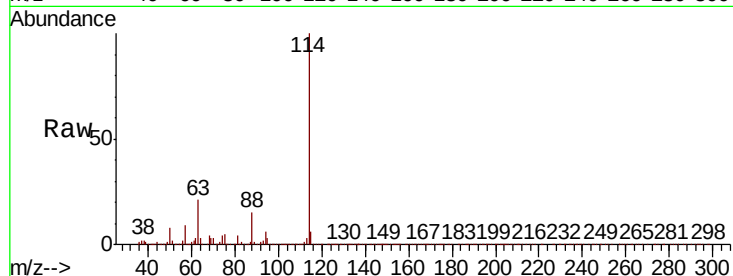
Tot Ion:114 Resp: 877021

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

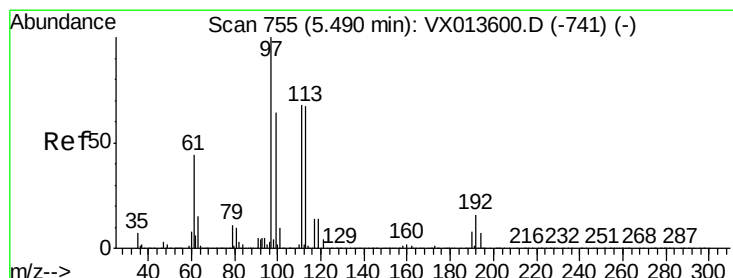
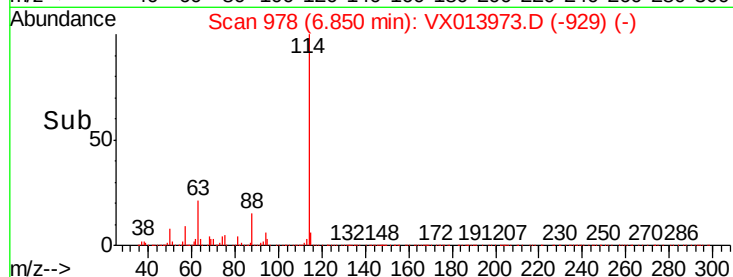
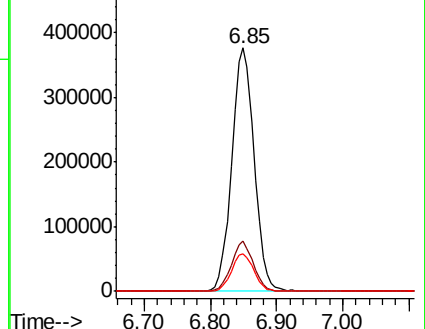
88 15.4 0.0 31.4



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: 47.727 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

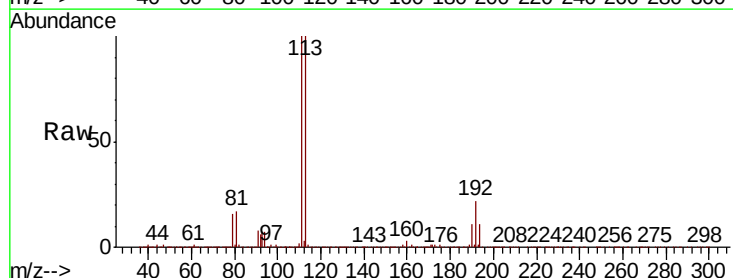
Tgt Ion:113 Resp: 258768

Ion Ratio Lower Upper

113 100

111 103.3 83.6 125.4

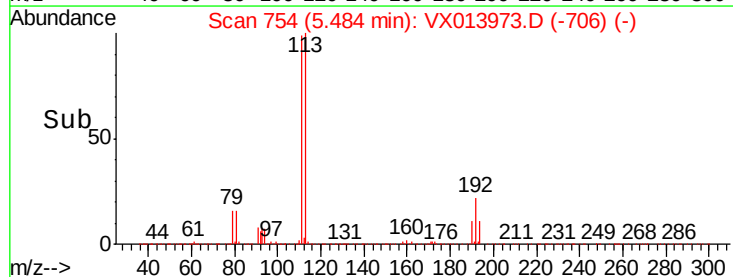
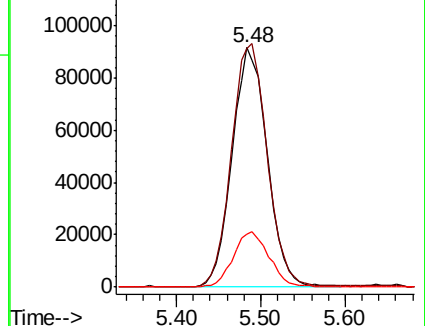
192 23.5 19.2 28.8

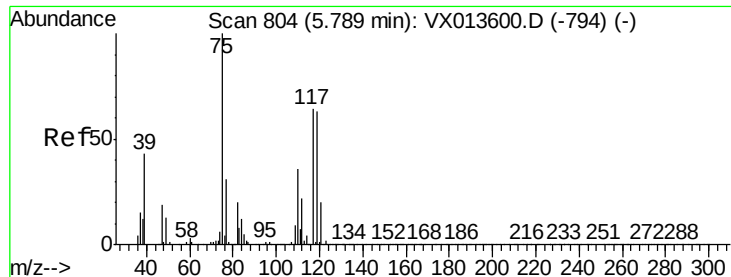


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

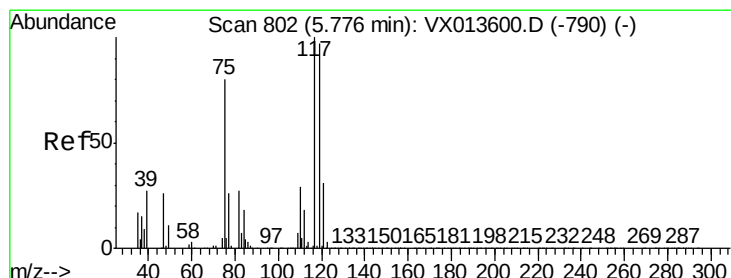
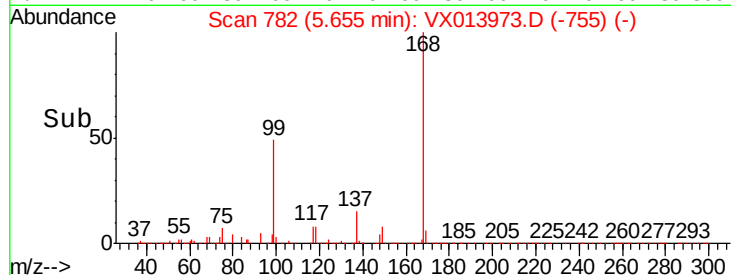
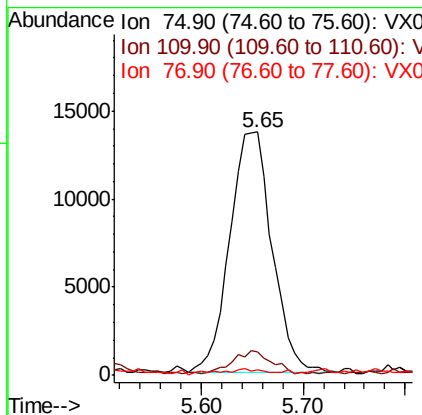
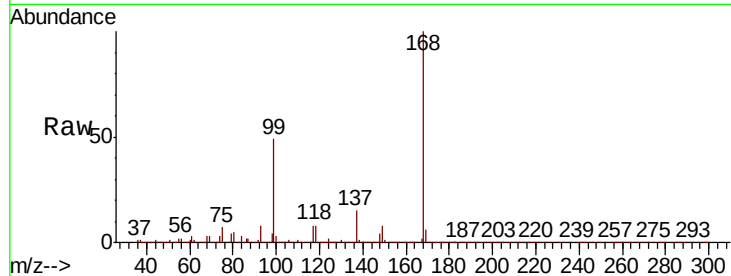




#36
 1,1-Dichloropropene
 Concen: 4.922 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013973.D
 Acq: 12 Dec 2019 14:26

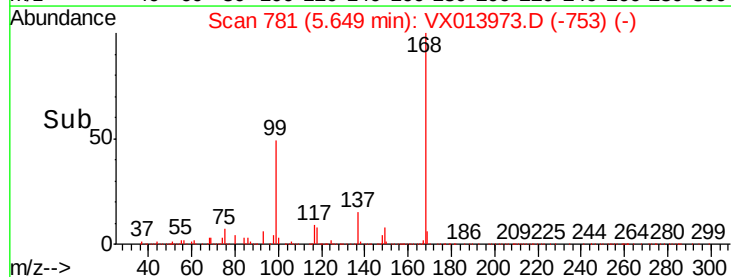
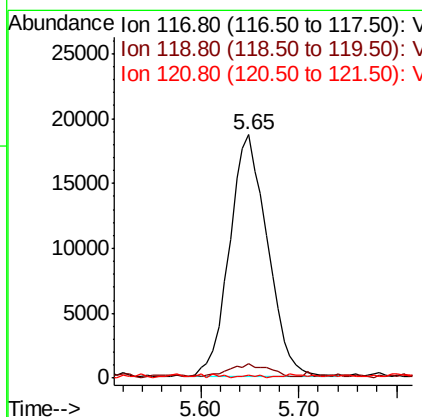
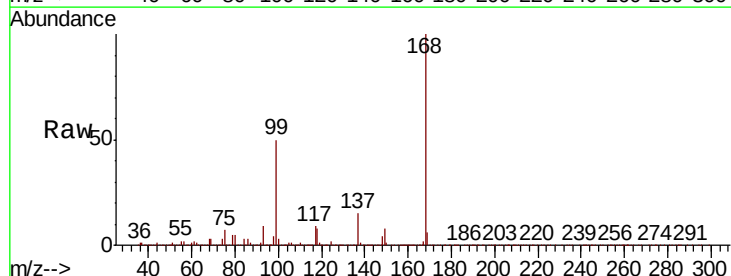
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ191I-20191208

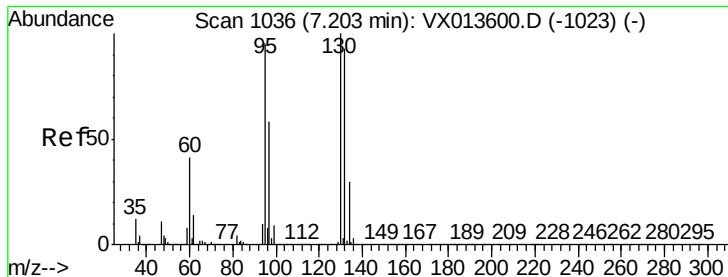
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.1#
77	0.8	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.852 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013973.D
 Acq: 12 Dec 2019 14:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.5	116.3#
121	0.6	25.0	37.6#





#44

Trichloroethene

Concen: 0.294 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

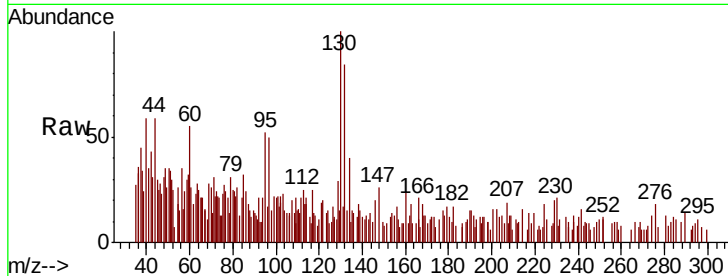
SA-PZ191I-20191208

Tot Ion:130 Resp: 1956

Ion Ratio Lower Upper

130 100

95 29.8 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800

600

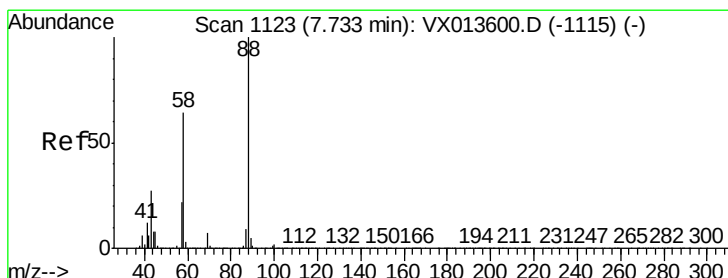
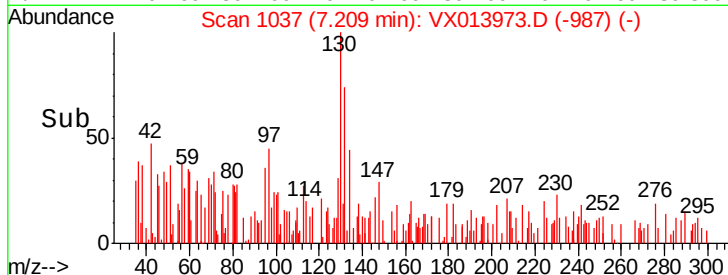
400

200

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 1.044 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

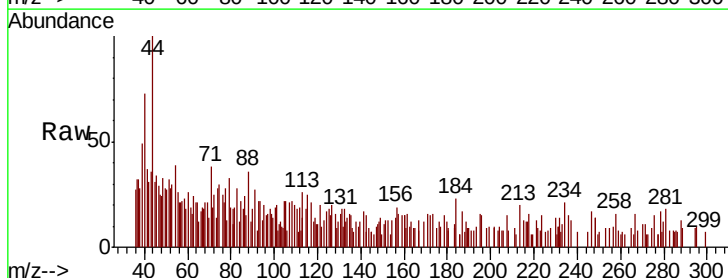
Tgt Ion: 88 Resp: 167

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 0.0 54.6 82.0#



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

500

400

300

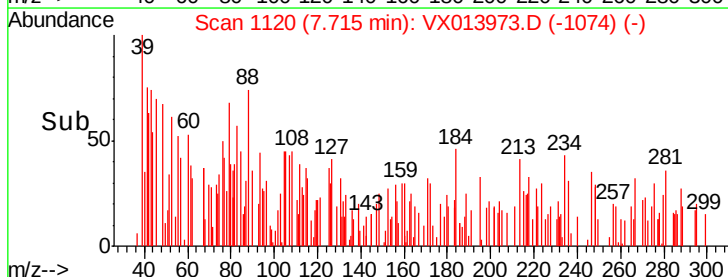
200

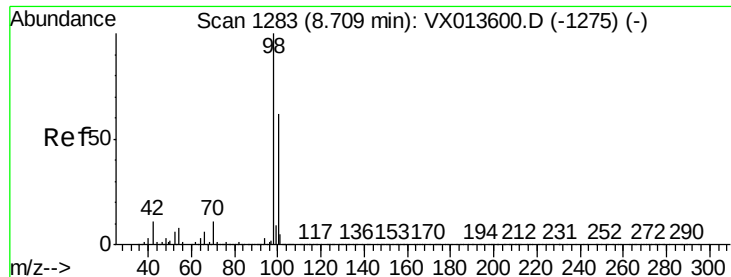
100

0

7.71 7.72 7.73

Time-->

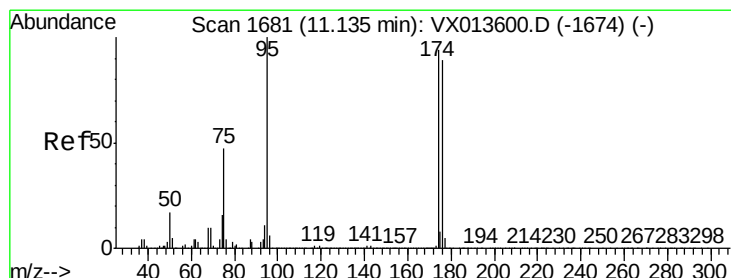
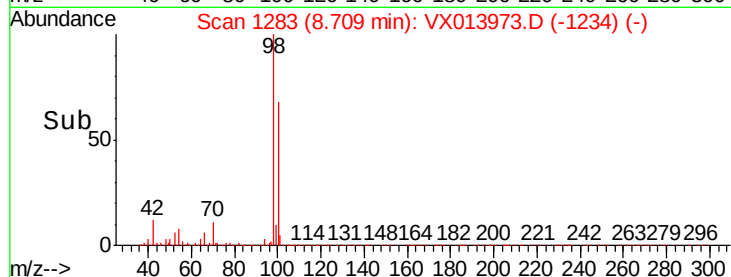
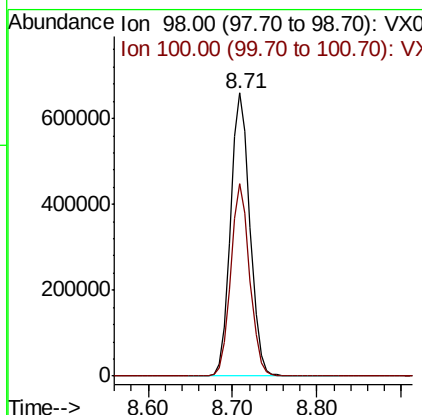
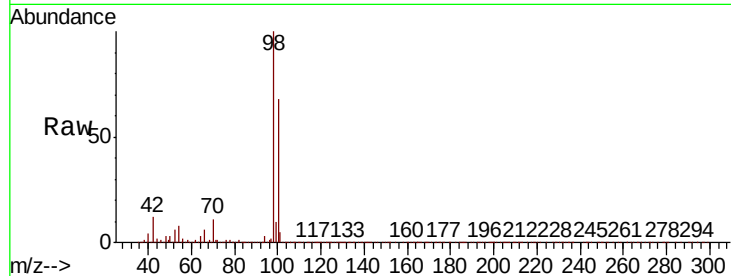




#50
Toluene-d8
Concen: 48.838 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013973.D
Acq: 12 Dec 2019 14:26

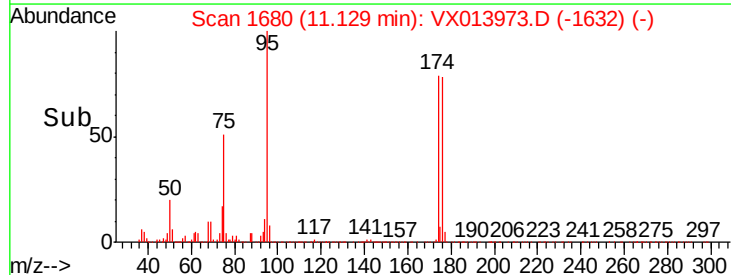
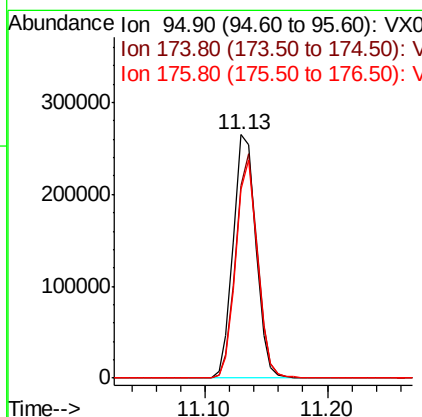
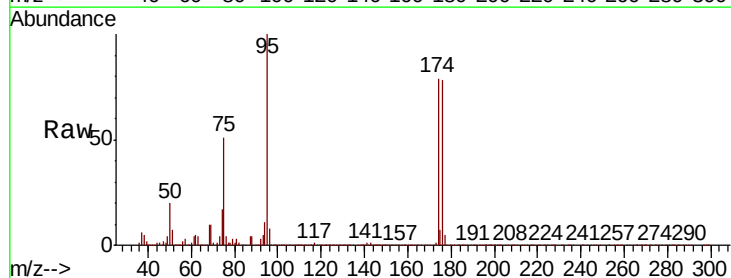
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ191I-20191208

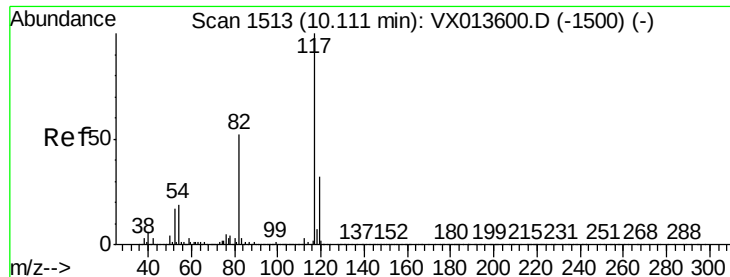
Tot Ion: 98 Resp: 1031655
Ion Ratio Lower Upper
98 100
100 66.1 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.560 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX013973.D
Acq: 12 Dec 2019 14:26

Tgt Ion: 95 Resp: 339431
Ion Ratio Lower Upper
95 100
174 88.7 0.0 180.0
176 85.8 0.0 173.6

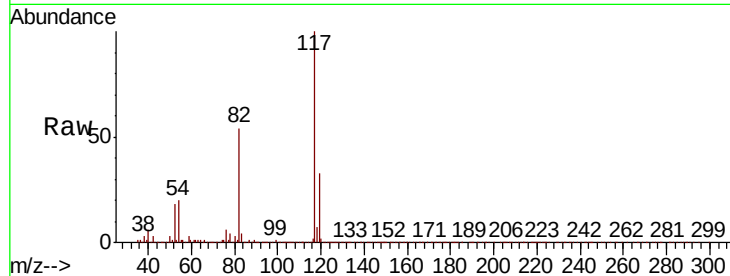




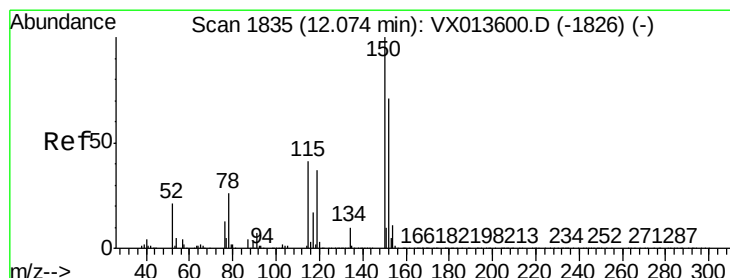
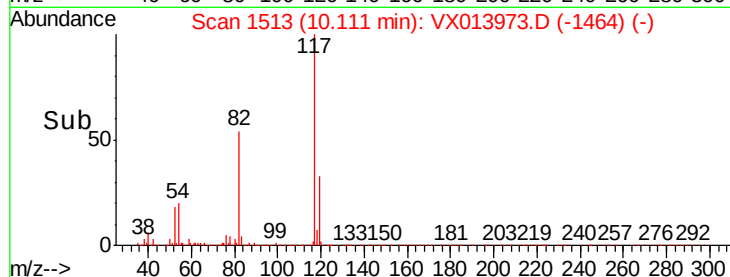
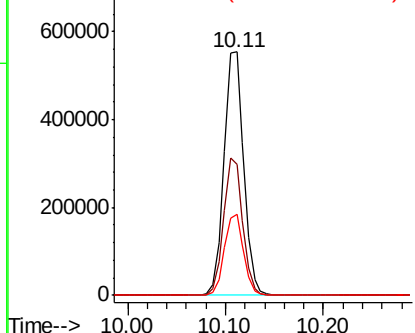
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013973.D
Acq: 12 Dec 2019 14:26

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ191I-20191208

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	41.8	62.8
119	33.4	25.8	38.8

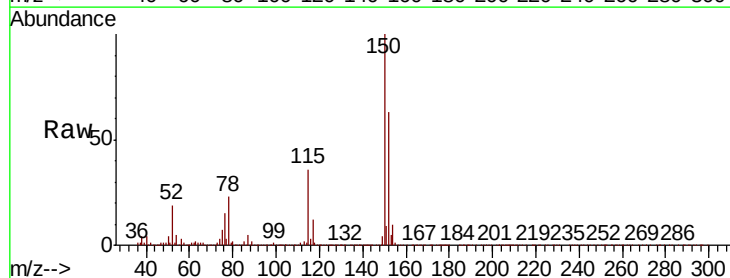


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

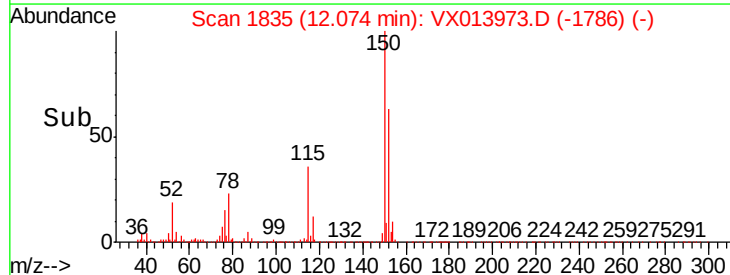
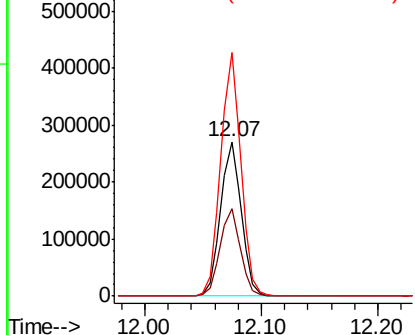


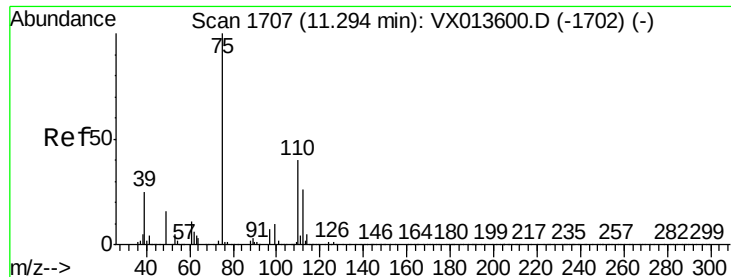
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013973.D
Acq: 12 Dec 2019 14:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	38.4	115.1
150	154.3	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





#76

1,2,3-Trichloropropane

Concen: 22.632 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

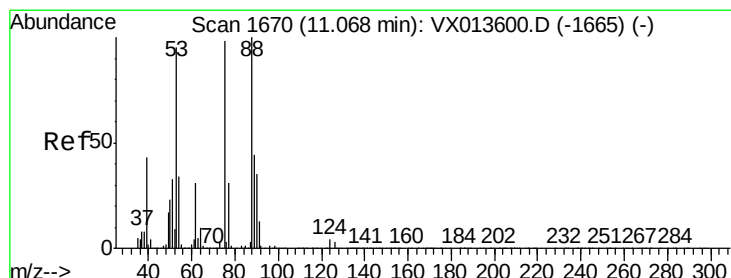
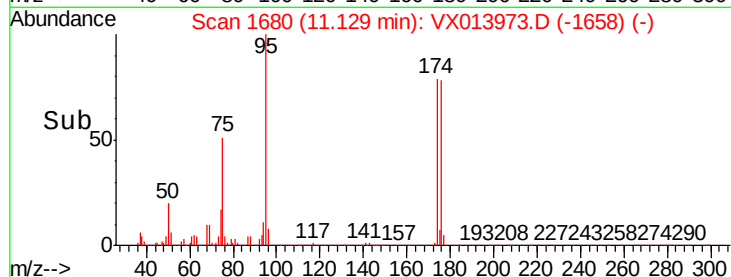
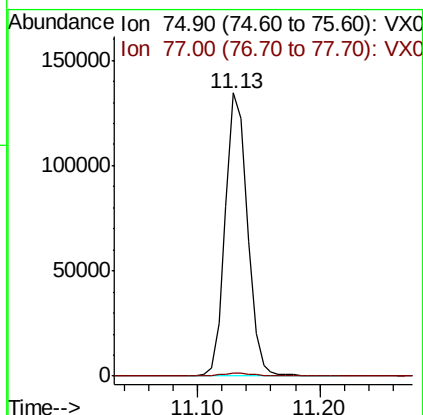
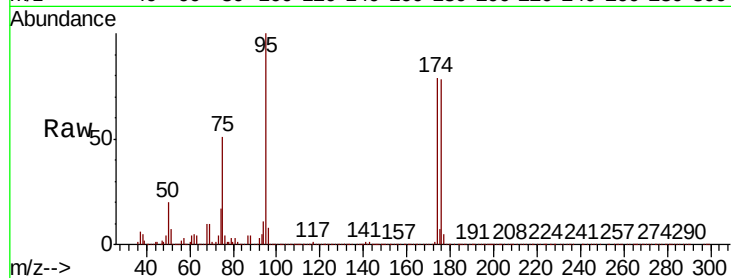
SA-PZ191I-20191208

Tot Ion: 75 Resp: 168364

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.918 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

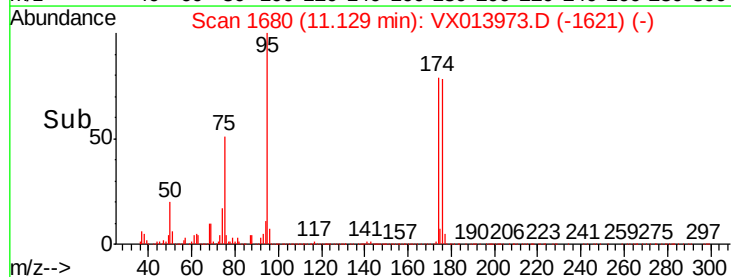
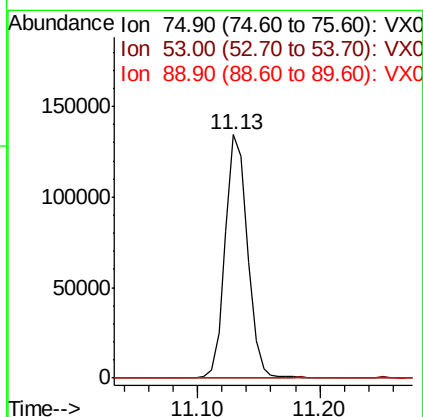
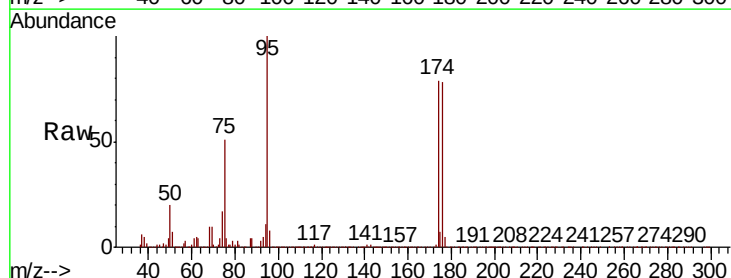
Tgt Ion: 75 Resp: 168364

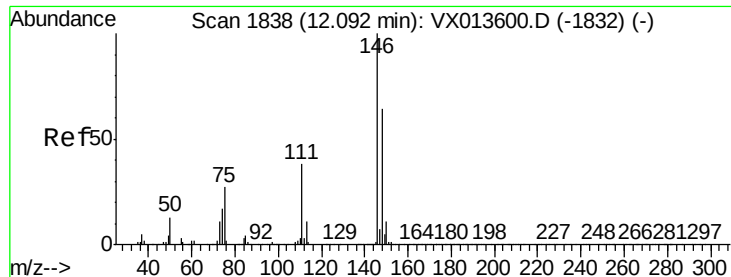
Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

89 0.2 35.4 53.2#





#88

1,4-Dichlorobenzene

Concen: 0.301 ug/l

RT: 12.09 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ191I-20191208

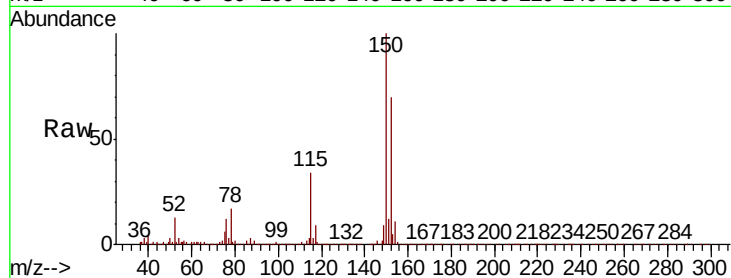
Tot Ion:146 Resp: 3351

Ion Ratio Lower Upper

146 100

111 157.9 18.9 56.9#

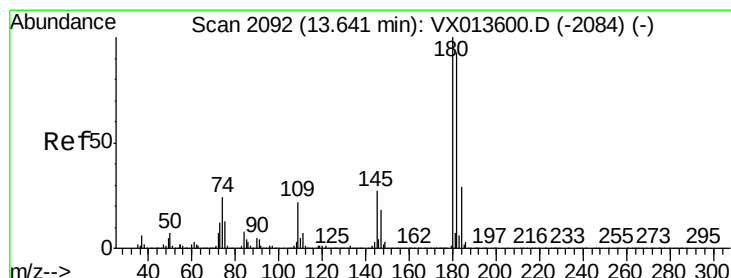
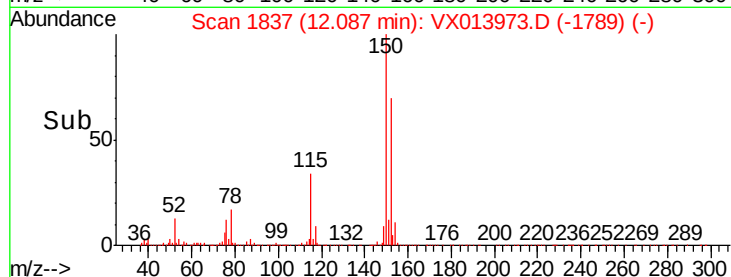
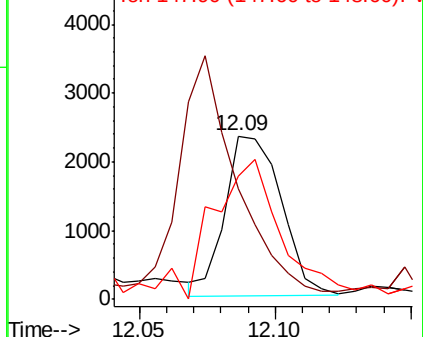
148 107.8 31.9 95.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.216 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX013973.D

Acq: 12 Dec 2019 14:26

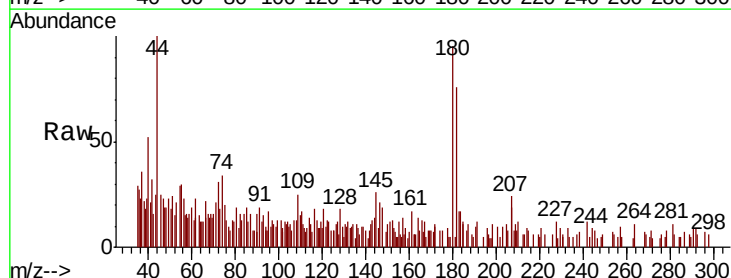
Tgt Ion:180 Resp: 1628

Ion Ratio Lower Upper

180 100

182 77.0 47.2 141.6

145 22.4 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

