

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012847.D
 Acq On : 07 Oct 2019 18:44
 Operator : JC/SP
 Sample : K5189-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ157I-20191001

Quant Time: Oct 08 11:13:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	179442	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	311282	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	257936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	97515	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	119069	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	
35) Dibromofluoromethane	5.48	113	92826	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	8.71	98	366177	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
62) 4-Bromofluorobenzene	11.13	95	122676	43.70	ug/l	0.00
Spiked Amount			Recovery	=	87.40%	

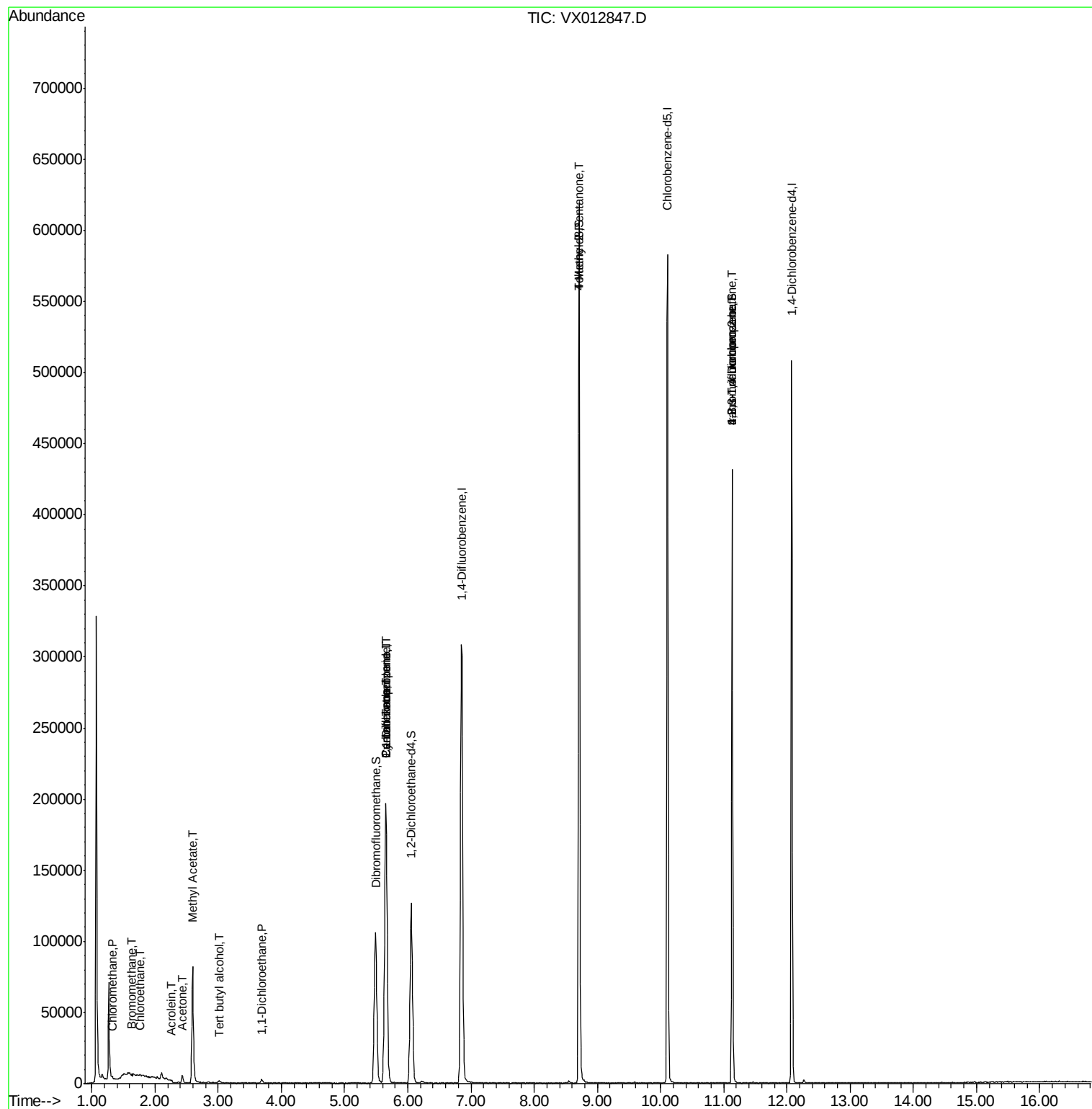
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	807	0.348	ug/l #	88
5) Bromomethane	1.64	94	251	0.277	ug/l #	4
6) Chloroethane	1.76	64	520	0.335	ug/l #	70
11) Tert butyl alcohol	3.01	59	1436	2.200	ug/l #	81
13) Acrolein	2.26	56	57	10.383	ug/l #	1
16) Acetone	2.43	43	5835	4.216	ug/l	98
18) Methyl Acetate	2.59	43	20407	6.262	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	2762	0.687	ug/l #	90
31) Cyclohexane	5.66	56	3925	1.079	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15145	5.048	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18610	6.106	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1682	0.465	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61663	23.905	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	61663	68.506	ug/l #	8

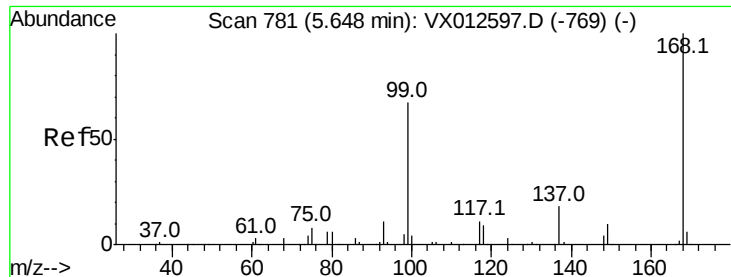
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

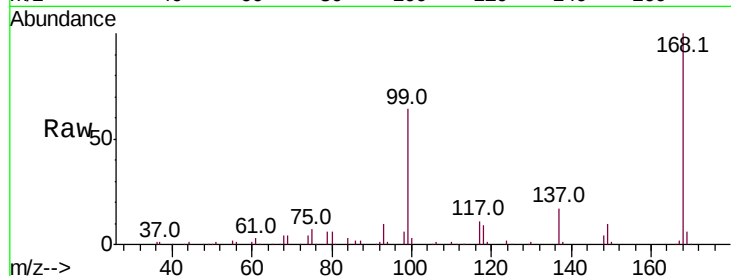
SA-PZ157I-20191001

Tot Ion:168 Resp: 179442

Ion Ratio Lower Upper

168 100

99 64.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

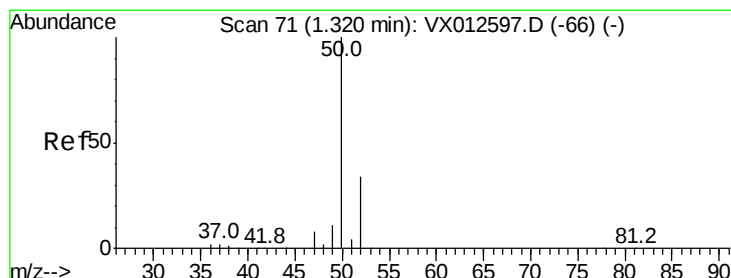
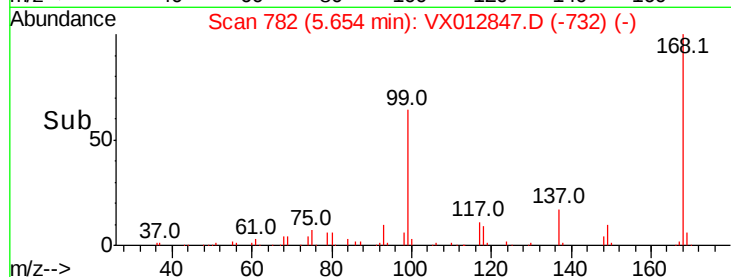
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.348 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012847.D

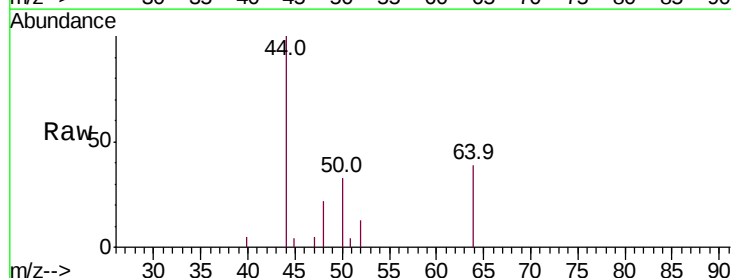
Acq: 07 Oct 2019 18:44

Tgt Ion: 50 Resp: 807

Ion Ratio Lower Upper

50 100

52 38.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

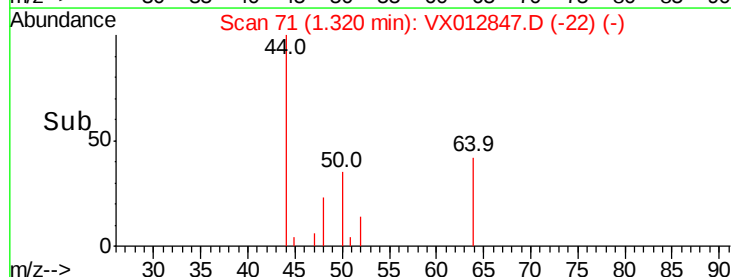
400

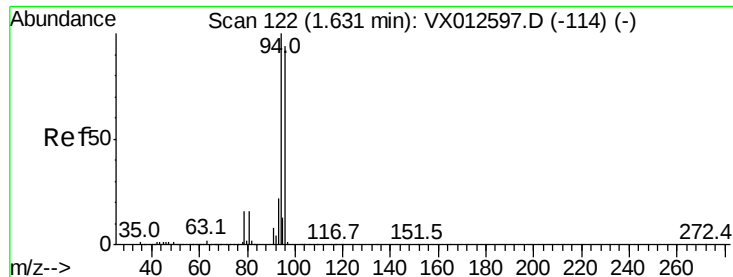
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.277 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

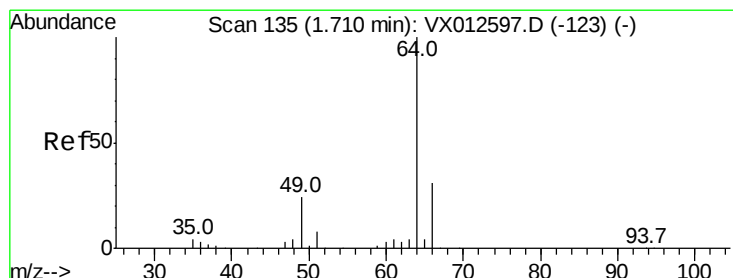
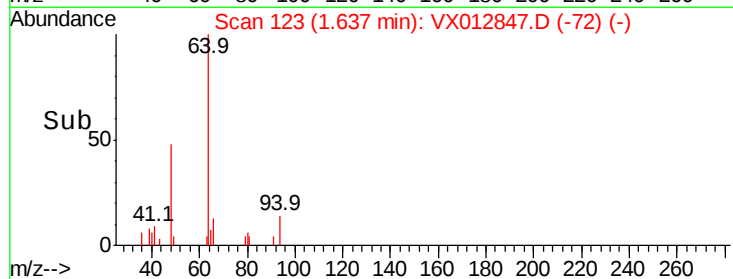
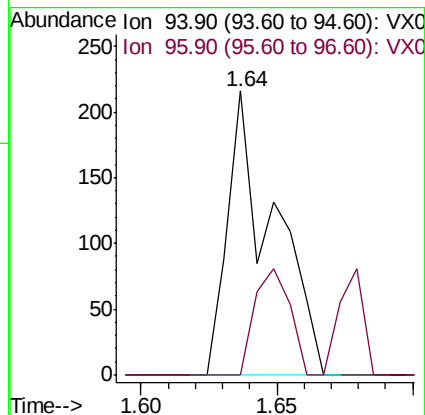
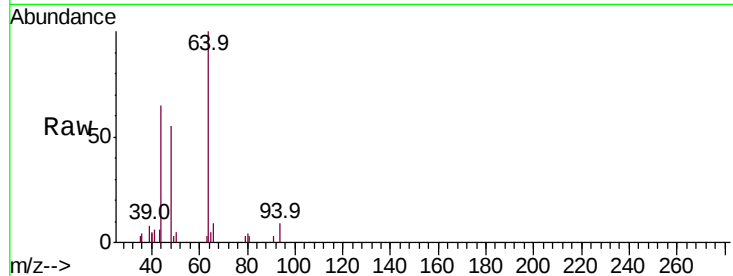
SA-PZ157I-20191001

Tot Ion: 94 Resp: 251

Ion Ratio Lower Upper

94 100

96 0.0 72.8 109.2#



#6

Chloroethane

Concen: 0.335 ug/l

RT: 1.76 min Scan# 143

Delta R.T. 0.05 min

Lab File: VX012847.D

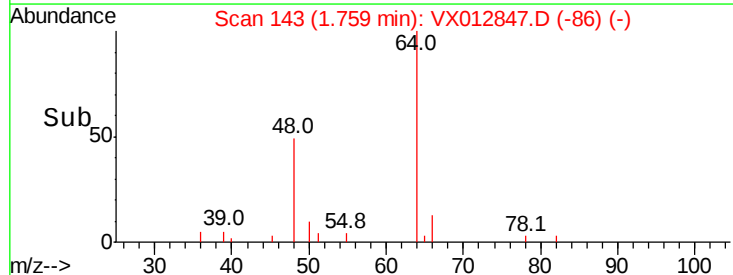
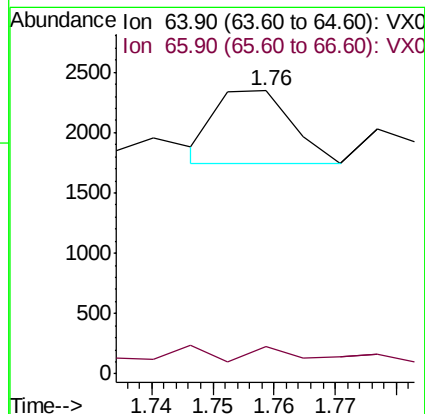
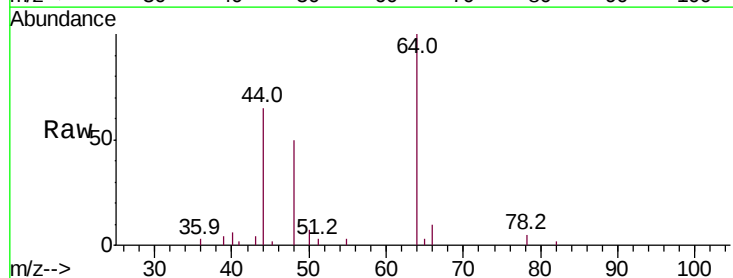
Acq: 07 Oct 2019 18:44

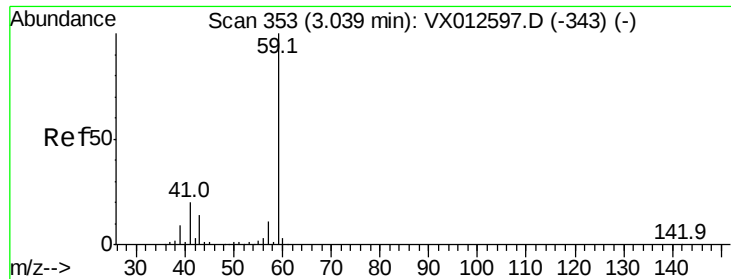
Tgt Ion: 64 Resp: 520

Ion Ratio Lower Upper

64 100

66 13.8 24.0 36.0#



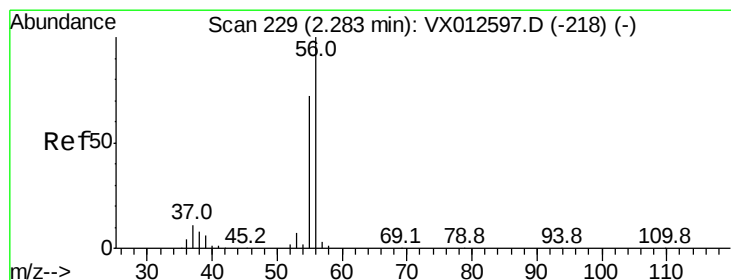
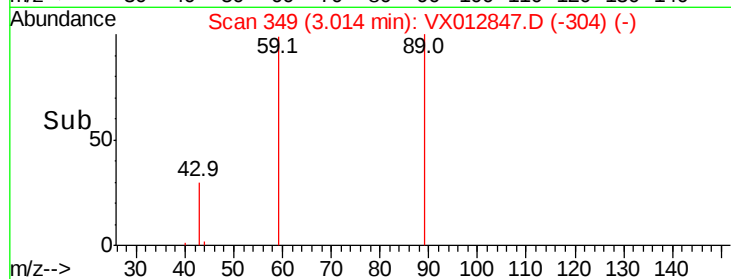
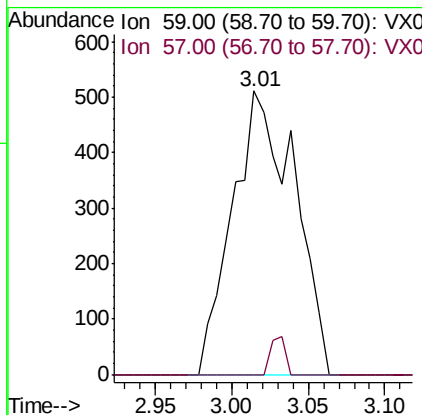
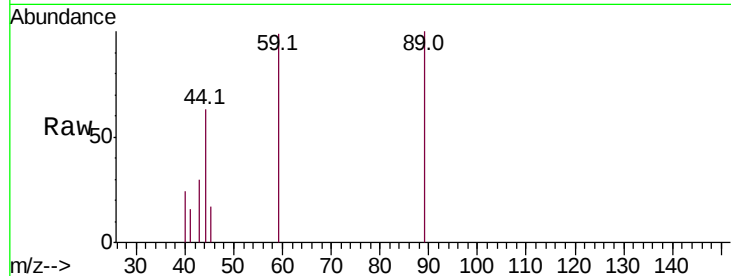


#11

Tert butyl alcohol
 Concen: 2.200 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: VX012847.D
 Acq: 07 Oct 2019 18:44

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ157I-20191001

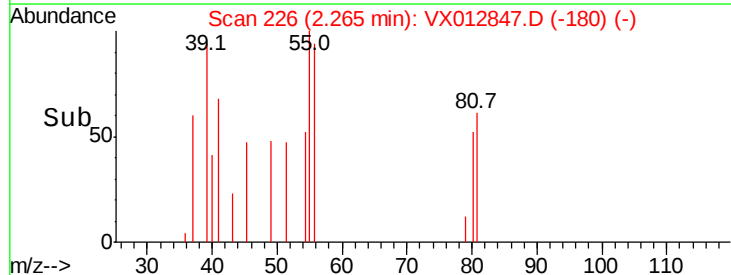
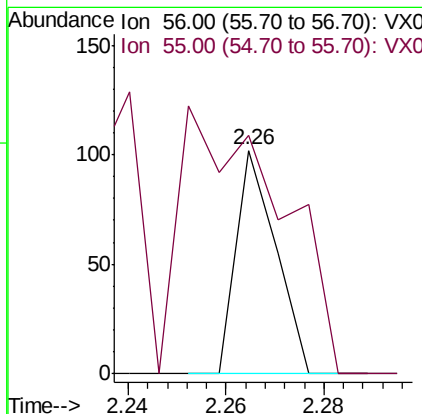
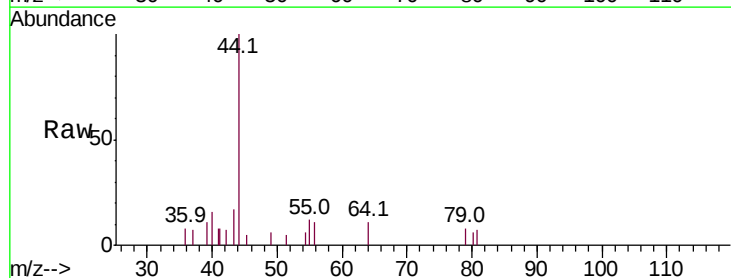
Tot Ion: 59 Resp: 1436
 Ion Ratio Lower Upper
 59 100
 57 3.3 8.3 12.5#

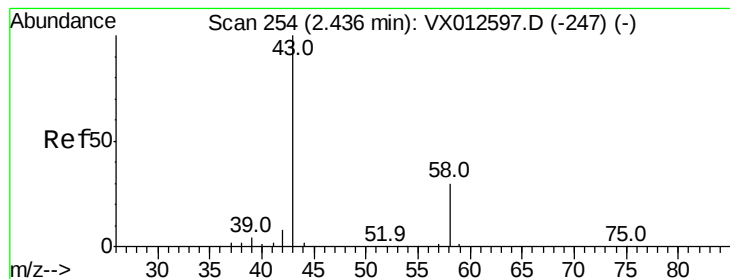


#13

Acrolein
 Concen: 10.383 ug/l
 RT: 2.26 min Scan# 226
 Delta R.T. -0.02 min
 Lab File: VX012847.D
 Acq: 07 Oct 2019 18:44

Tgt Ion: 56 Resp: 57
 Ion Ratio Lower Upper
 56 100
 55 301.8 55.8 83.8#





#16

Acetone

Concen: 4.216 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

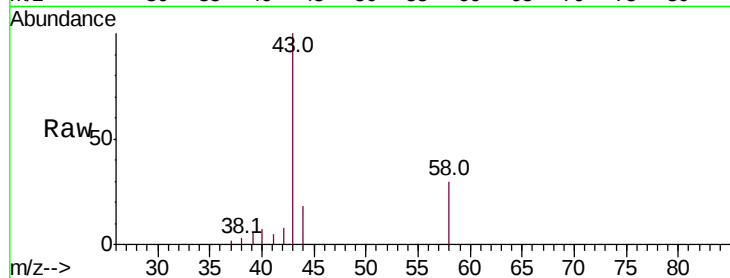
SA-PZ157I-20191001

Tot Ion: 43 Resp: 5835

Ion Ratio Lower Upper

43 100

58 30.3 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

4000

3000

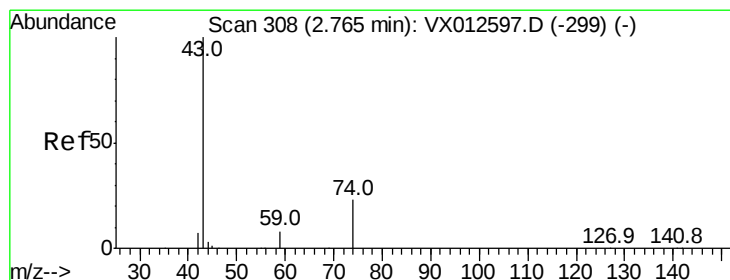
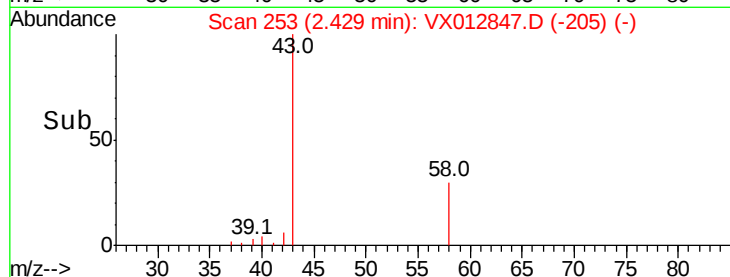
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 6.262 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012847.D

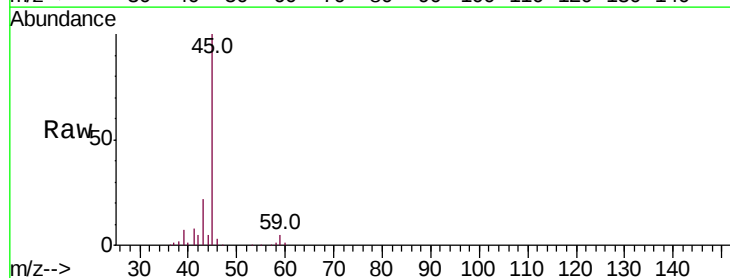
Acq: 07 Oct 2019 18:44

Tgt Ion: 43 Resp: 20407

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.59

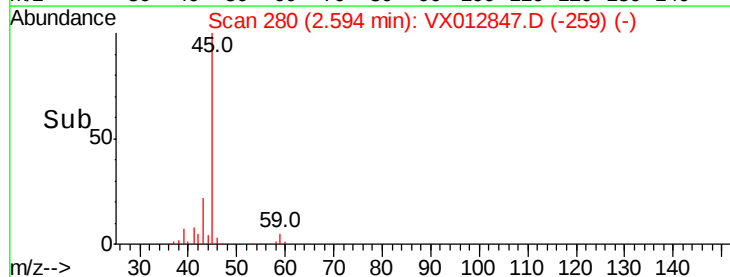
10000

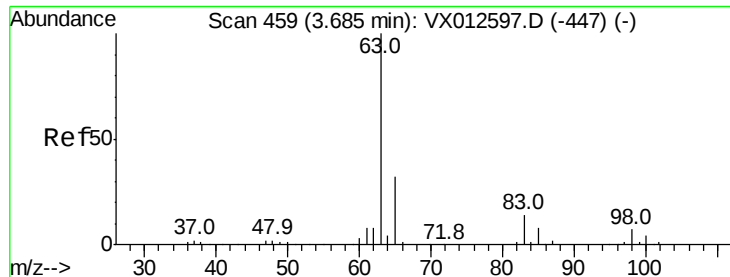
5000

0

Time-->

2.50 2.55 2.60 2.65 2.70





#24

1,1-Dichloroethane

Concen: 0.687 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ157I-20191001

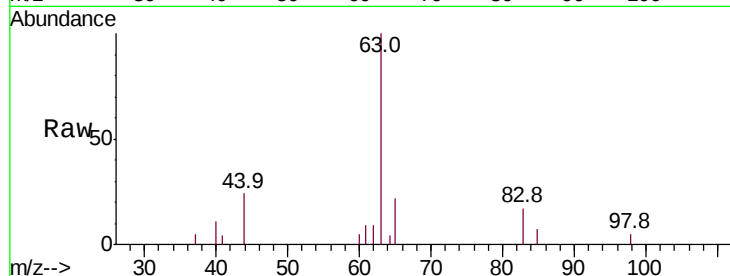
Tot Ion: 63 Resp: 2762

Ion Ratio Lower Upper

63 100

98 5.2 3.9 11.7

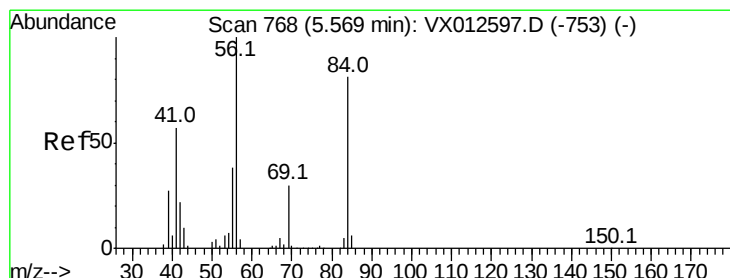
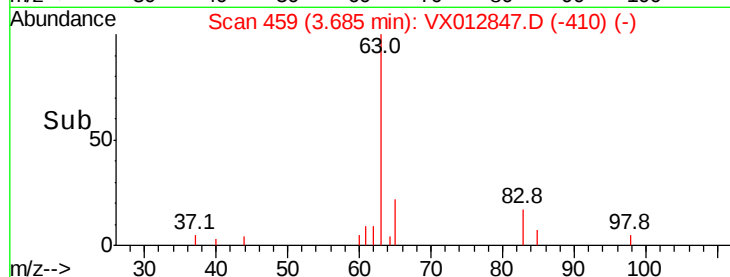
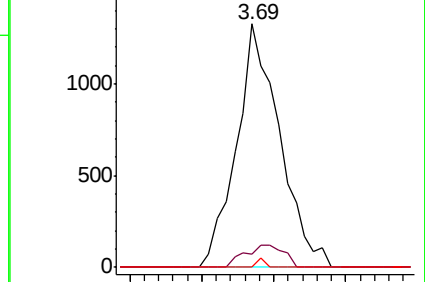
100 0.0 2.3 6.9#



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



#31

Cyclohexane

Concen: 1.079 ug/l

RT: 5.66 min Scan# 783

Delta R.T. 0.09 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

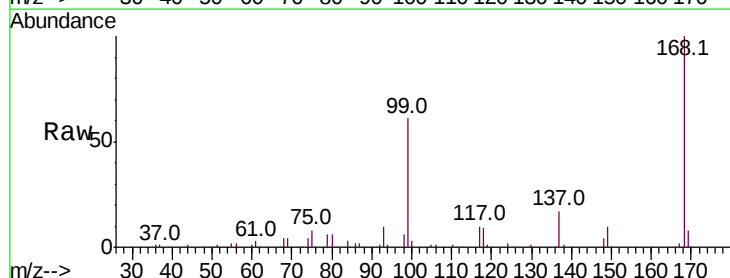
Tgt Ion: 56 Resp: 3925

Ion Ratio Lower Upper

56 100

69 167.8 25.0 37.6#

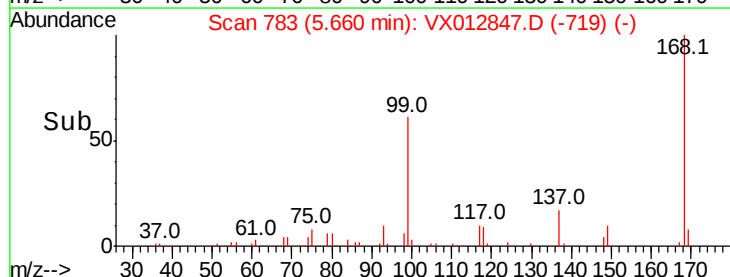
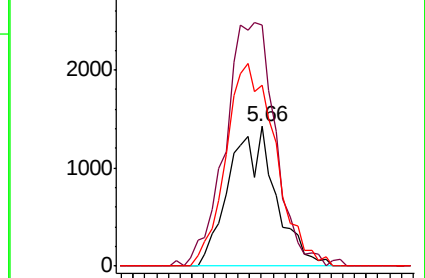
84 129.6 66.4 99.6#

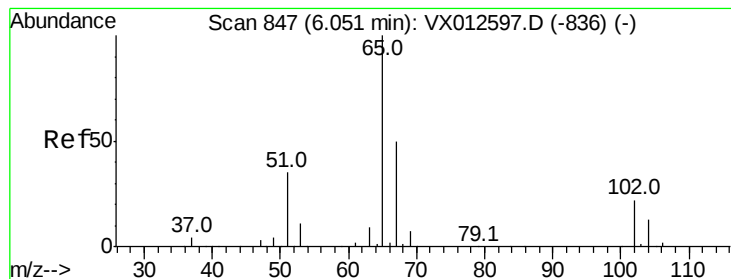


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.568 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

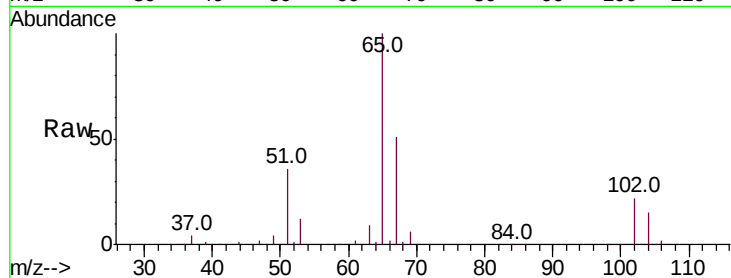
SA-PZ157I-20191001

Tot Ion: 65 Resp: 119069

Ion Ratio Lower Upper

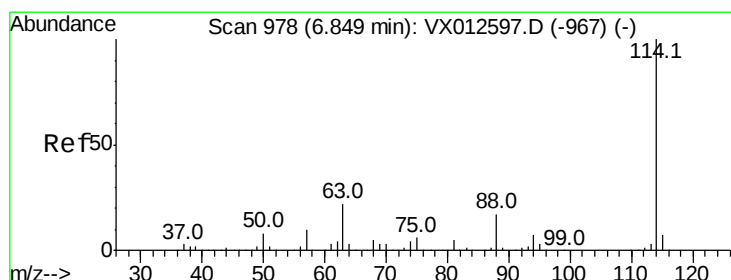
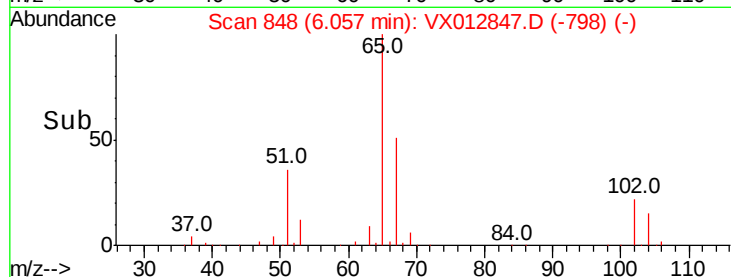
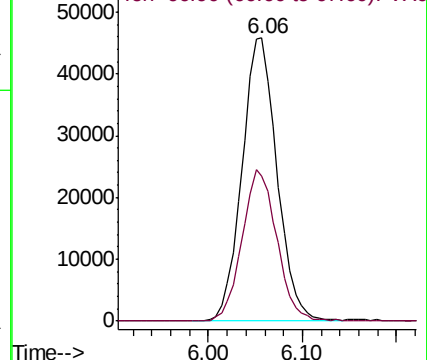
65 100

67 53.0 0.0 101.2



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: VX012847.D

Acq: 07 Oct 2019 18:44

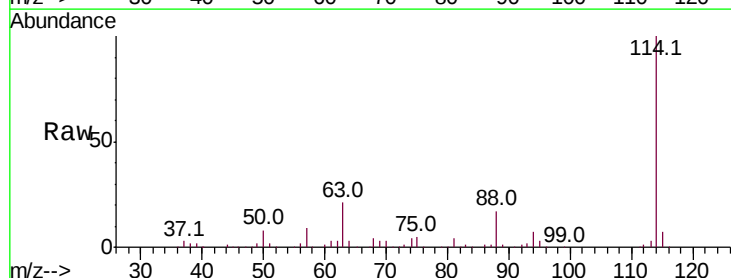
Tgt Ion: 114 Resp: 311282

Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.2

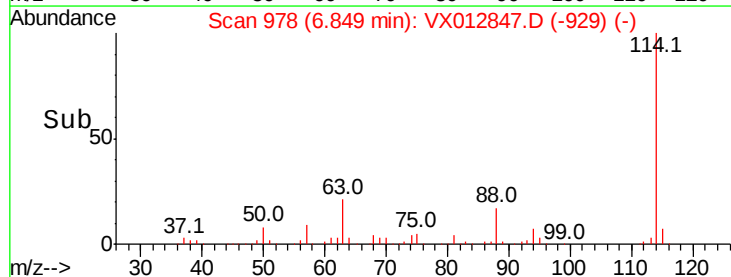
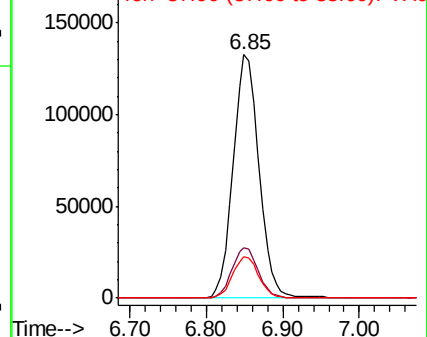
88 17.1 0.0 33.2

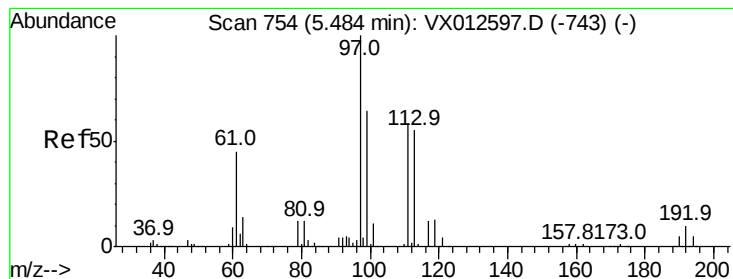


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.073 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

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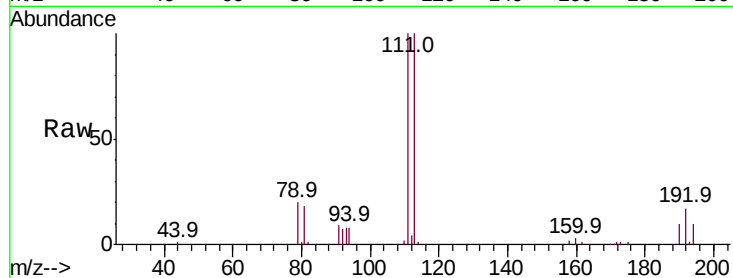
Tot Ion:113 Resp: 92826

Ion Ratio Lower Upper

113 100

111 101.6 83.4 125.2

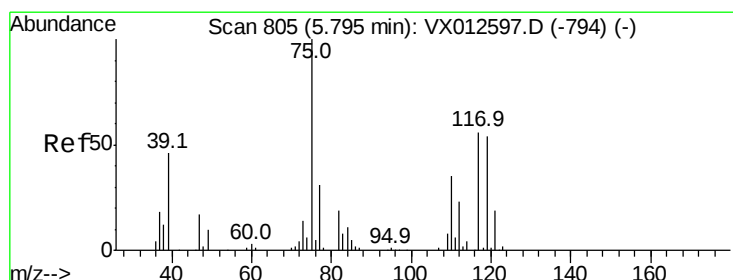
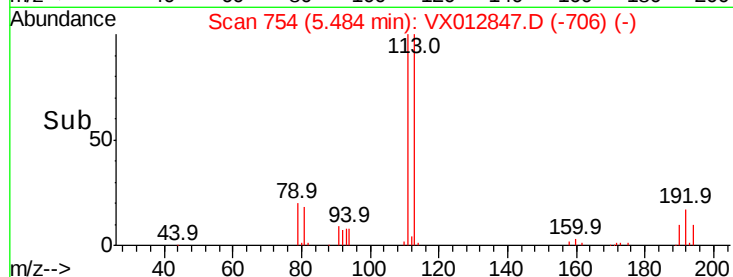
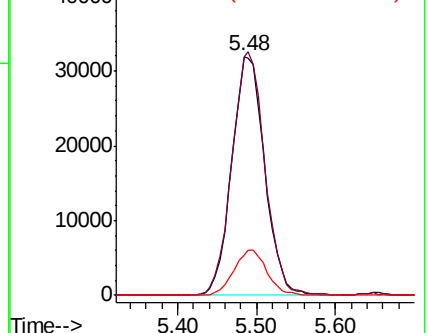
192 18.7 14.4 21.6



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: 5.048 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

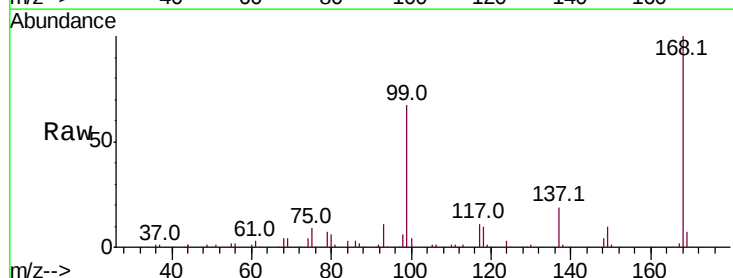
Tgt Ion: 75 Resp: 15145

Ion Ratio Lower Upper

75 100

110 8.8 16.7 50.0#

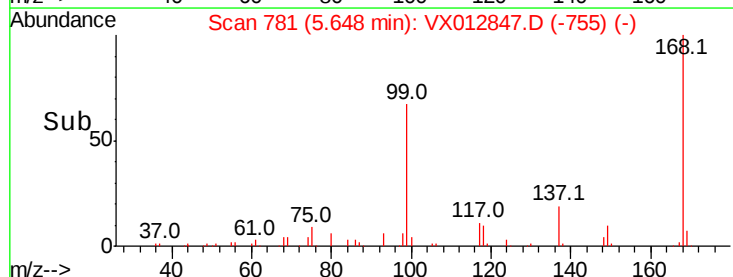
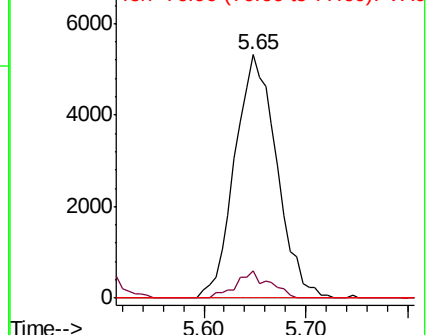
77 0.0 24.2 36.2#

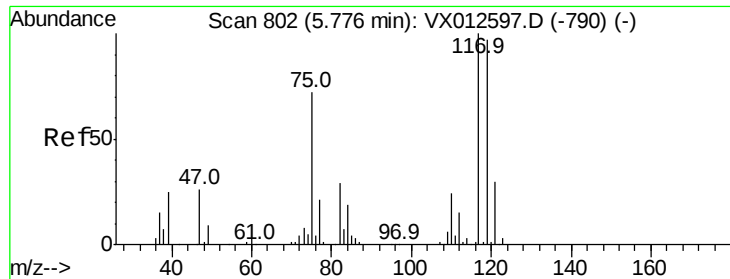


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.106 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ157I-20191001

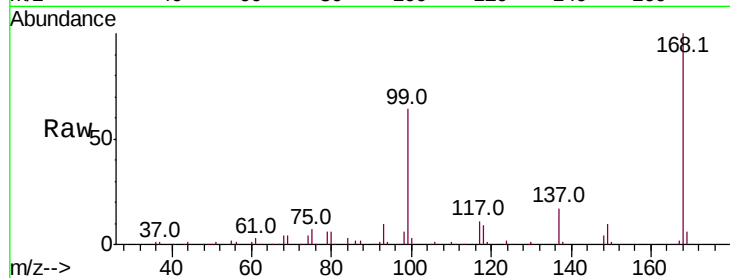
Tot Ion:117 Resp: 18610

Ion Ratio Lower Upper

117 100

119 4.9 75.7 113.5#

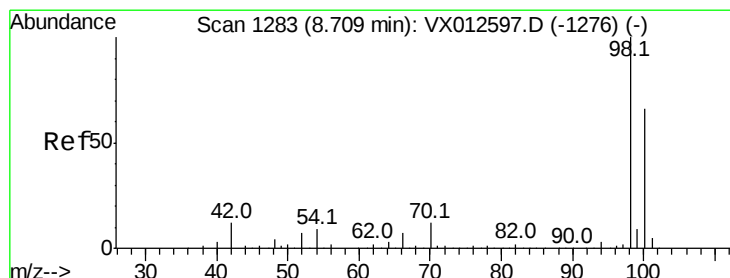
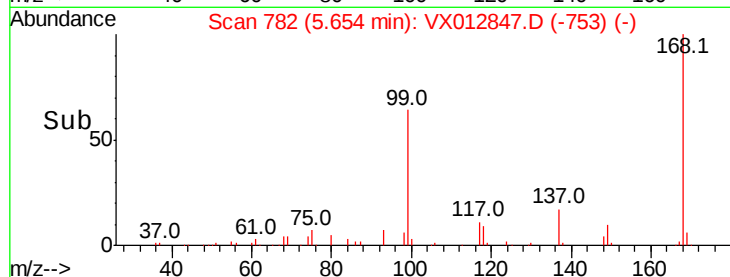
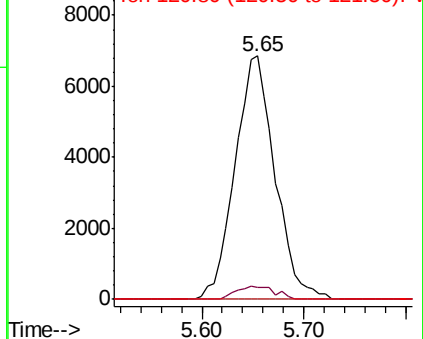
121 0.0 24.2 36.4#



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: 51.291 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012847.D

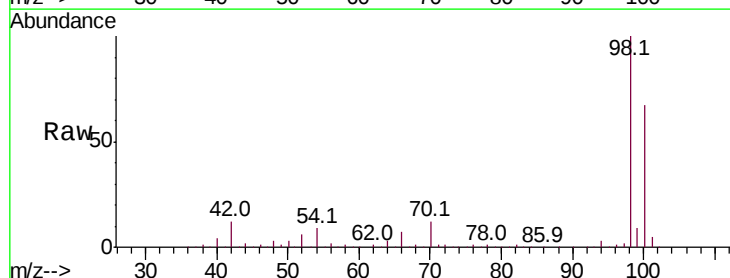
Acq: 07 Oct 2019 18:44

Tgt Ion: 98 Resp: 366177

Ion Ratio Lower Upper

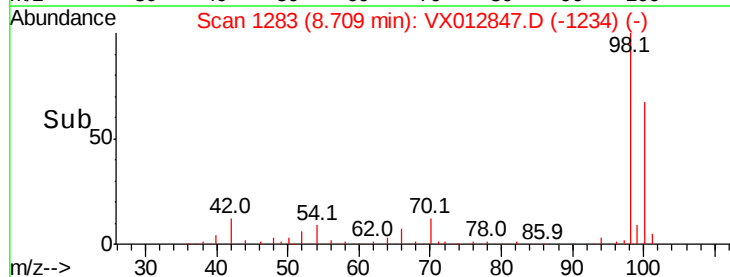
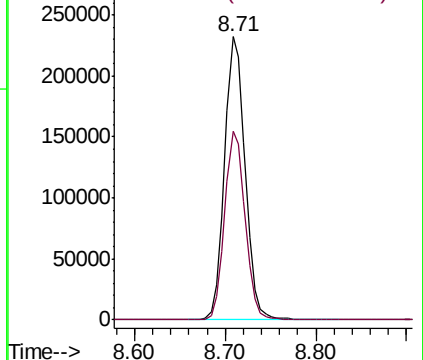
98 100

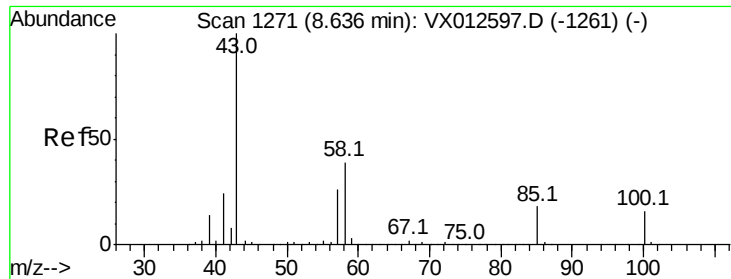
100 66.4 53.4 80.2



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: 0.465 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. 0.08 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

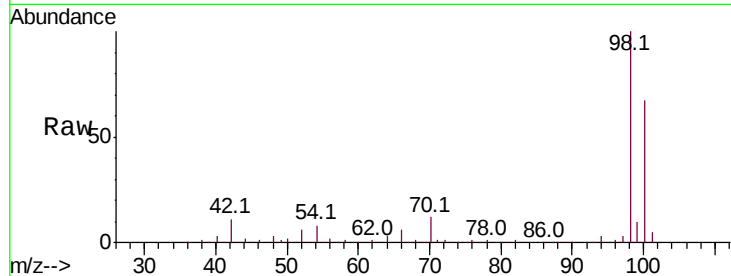
SA-PZ1571-20191001

Tot Ion: 43 Resp: 1682

Ion Ratio Lower Upper

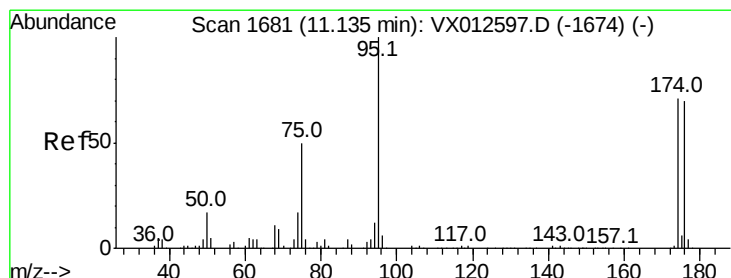
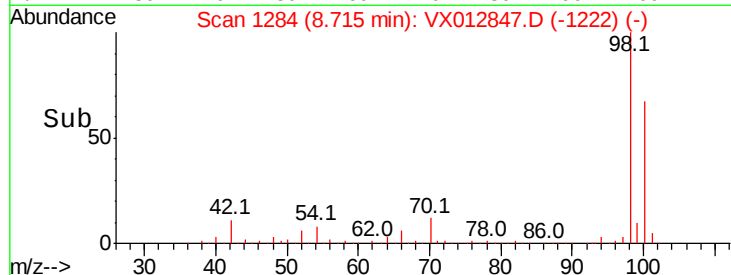
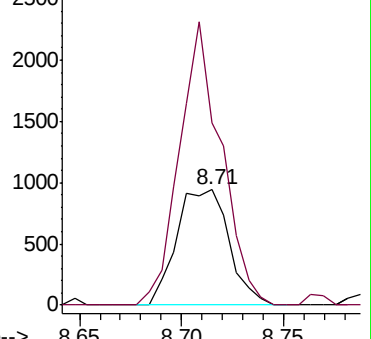
43 100

58 194.1 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.701 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

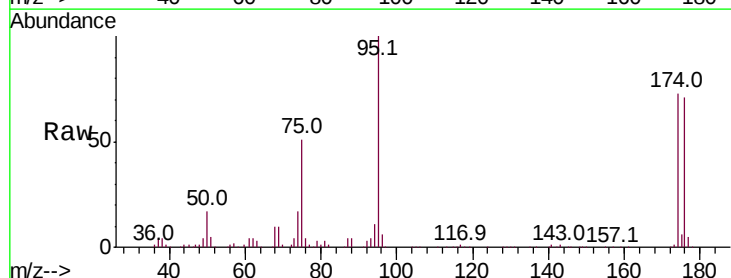
Tgt Ion: 95 Resp: 122676

Ion Ratio Lower Upper

95 100

174 70.1 0.0 140.0

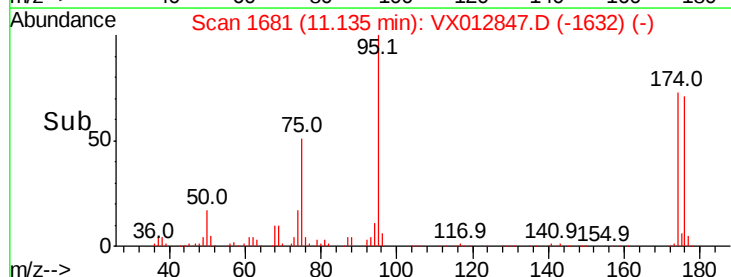
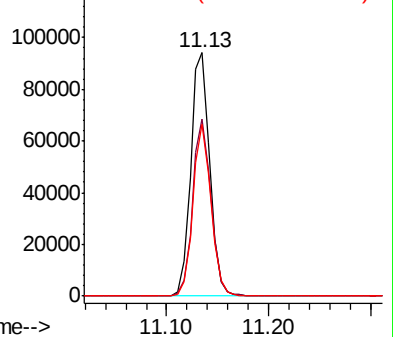
176 67.2 0.0 135.4

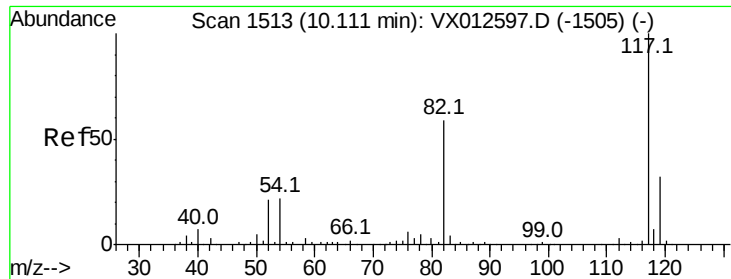


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

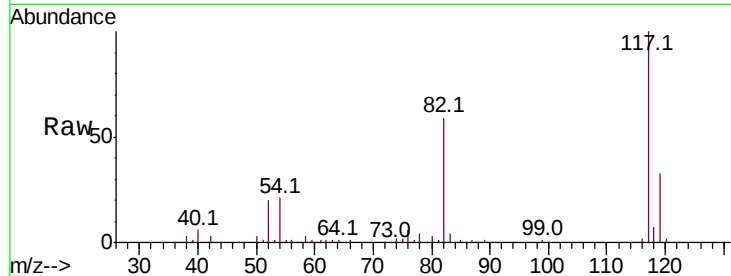




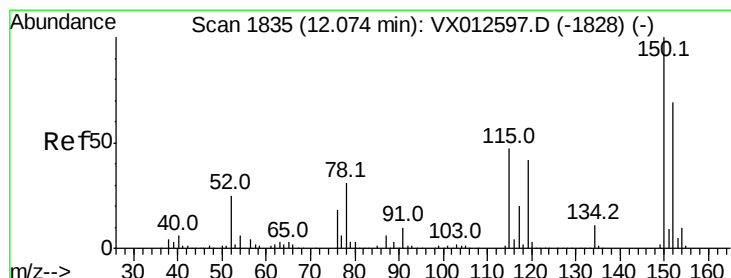
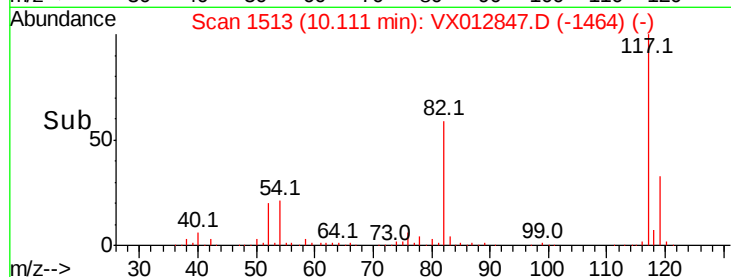
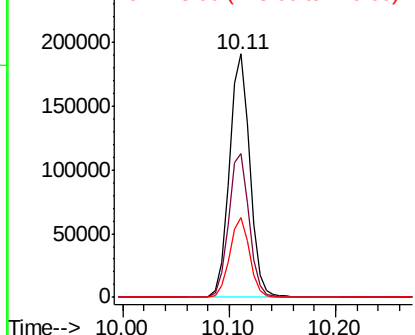
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012847.D
Acq: 07 Oct 2019 18:44

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ157I-20191001

Tot Ion:117 Resp: 257936
Ion Ratio Lower Upper
117 100
82 58.9 45.9 68.9
119 32.8 25.3 37.9

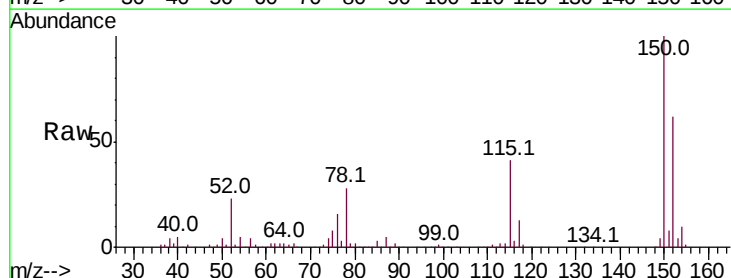


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

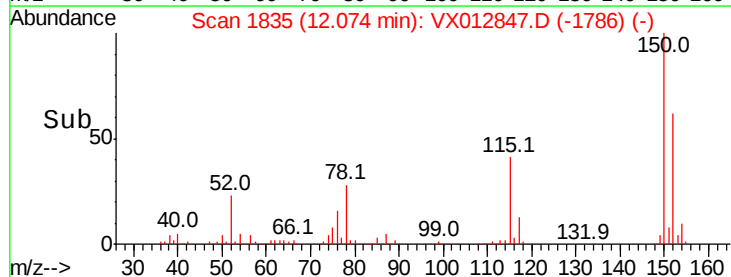
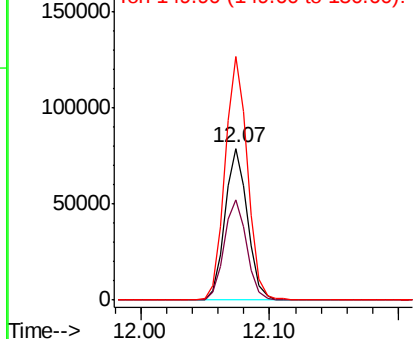


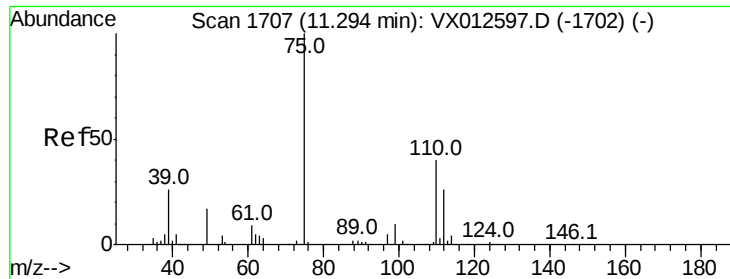
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012847.D
Acq: 07 Oct 2019 18:44

Tgt Ion:152 Resp: 97515
Ion Ratio Lower Upper
152 100
115 66.4 44.1 132.3
150 160.0 0.0 343.8



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





#76

1,2,3-Trichloropropane

Concen: 23.905 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

Instrument :

MSVOA_X

ClientSampleId :

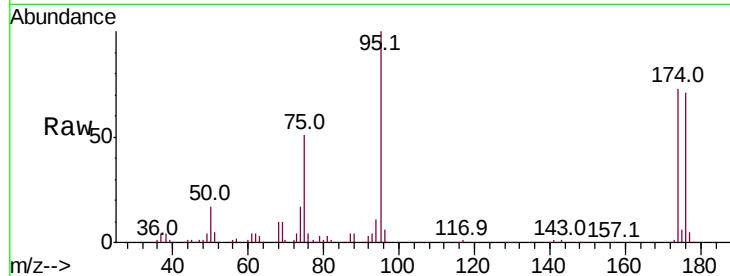
SA-PZ157I-20191001

Tot Ion: 75 Resp: 61663

Ion Ratio Lower Upper

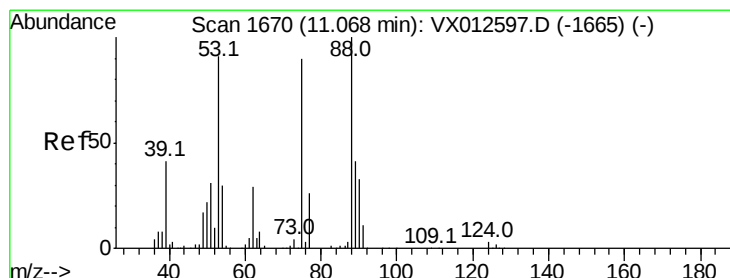
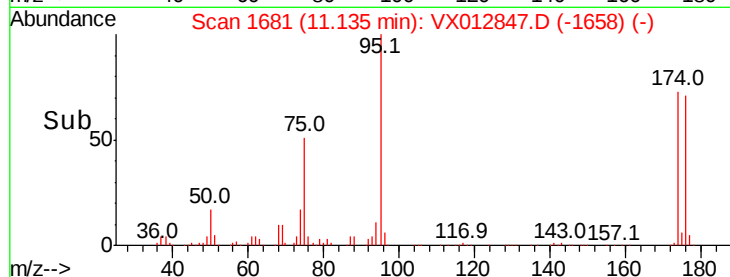
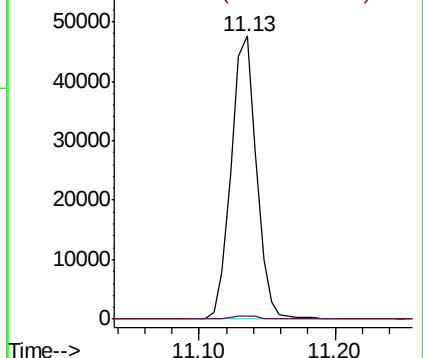
75 100

77 1.4 19.7 59.0#



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: 68.506 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012847.D

Acq: 07 Oct 2019 18:44

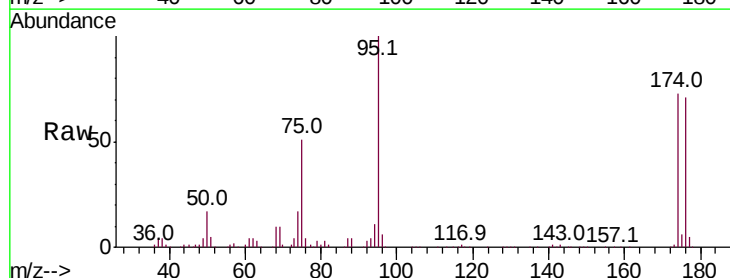
Tgt Ion: 75 Resp: 61663

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.1 36.3 54.5#



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

