

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012840.D
 Acq On : 07 Oct 2019 16:00
 Operator : JC/SP
 Sample : K5154-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:12:35 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	180127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	303987	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	253128	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92431	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	117962	44.97	ug/l	0.00
Spiked Amount			Recovery	=	89.94%	
35) Dibromofluoromethane	5.49	113	89958	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	8.71	98	352775	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.14	95	118512	43.23	ug/l	0.00
Spiked Amount			Recovery	=	86.46%	

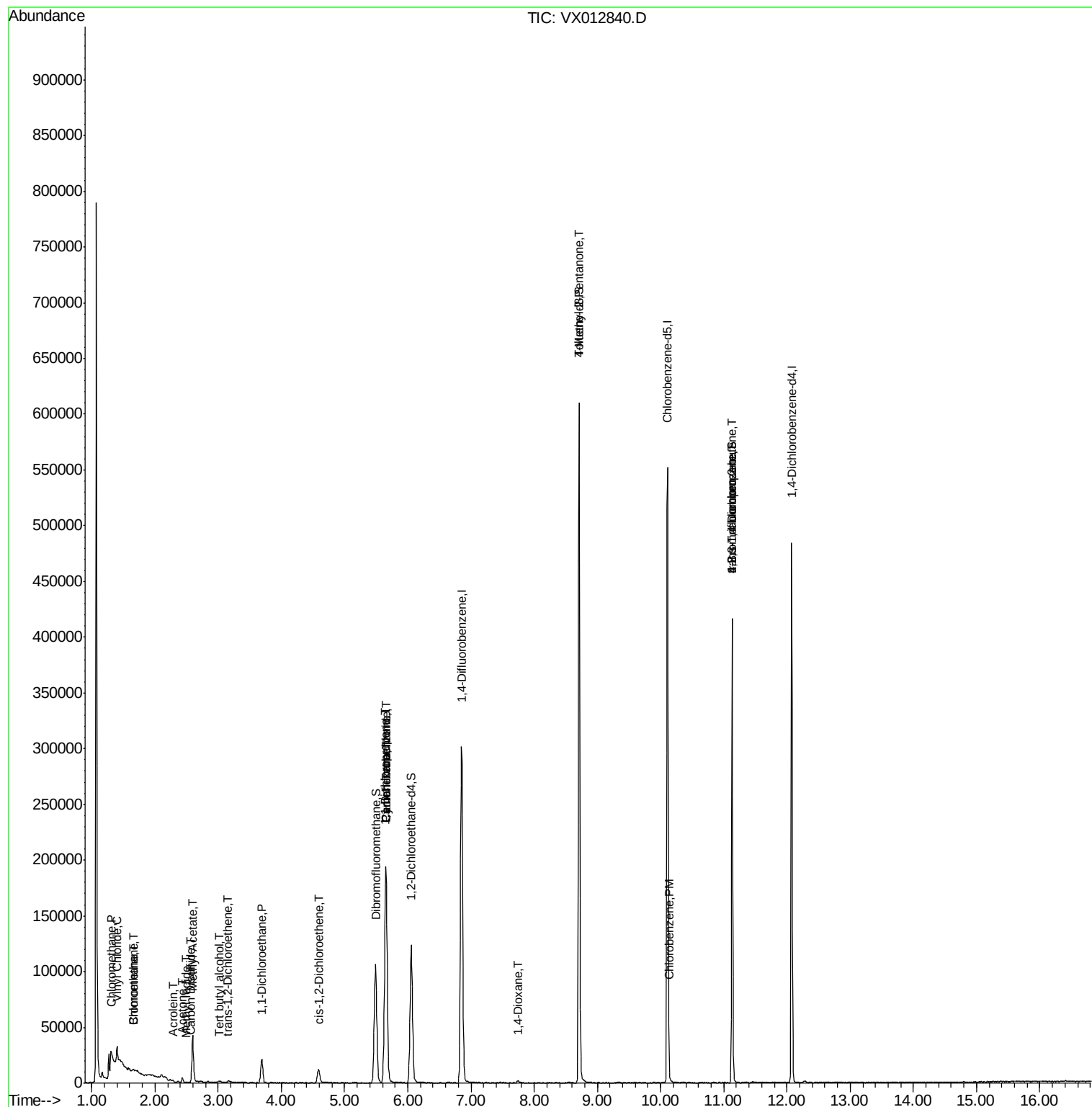
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	905	0.389	ug/l	93
4) Vinyl Chloride	1.40	62	6780	2.931	ug/l	94
5) Bromomethane	1.66	94	422	0.464	ug/l #	73
6) Chloroethane	1.66	64	697	0.447	ug/l #	45
10) Methyl Iodide	2.50	142	144	5.015	ug/l #	50
11) Tert butyl alcohol	3.02	59	1221	1.863	ug/l #	81
13) Acrolein	2.28	56	197	10.750	ug/l	92
16) Acetone	2.44	43	4171	3.002	ug/l	89
17) Carbon Disulfide	2.56	76	1217	0.224	ug/l #	75
18) Methyl Acetate	2.60	43	10942	3.345	ug/l #	54
21) trans-1,2-Dichloroethene	3.16	96	601	0.280	ug/l #	77
24) 1,1-Dichloroethane	3.69	63	23257	5.763	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	7697	3.092	ug/l	84
31) Cyclohexane	5.65	56	4078	1.117	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	14892	5.082	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18415	6.187	ug/l #	16
49) 1,4-Dioxane	7.75	88	1695	27.205	ug/l #	86
51) 4-Methyl-2-Pentanone	8.71	43	1624	0.459	ug/l #	1
65) Chlorobenzene	10.14	112	1652	0.310	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	58100	23.763	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58100	68.098	ug/l #	8

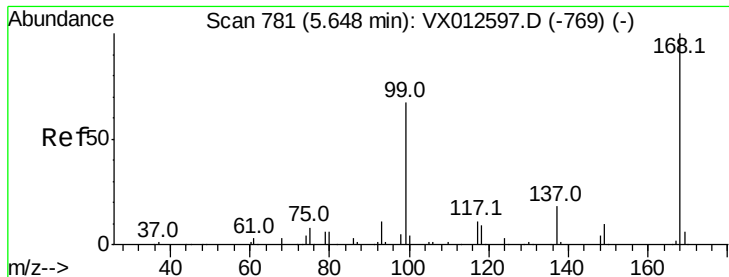
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

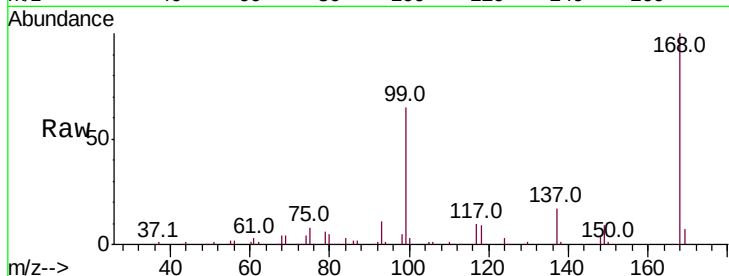
ClientSampleId :

Tot Ion:168 Resp: 180127

Ion Ratio Lower Upper

168 100

99 65.0 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

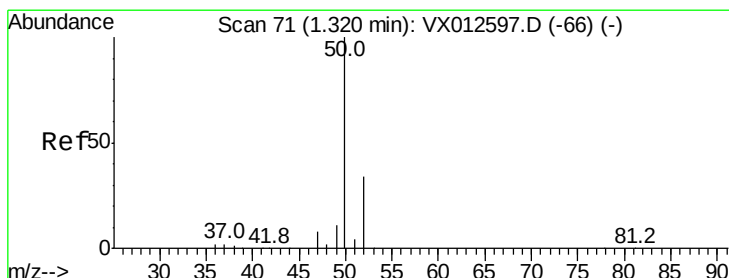
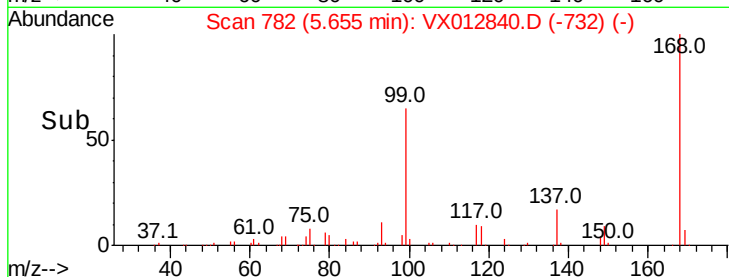
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.389 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012840.D

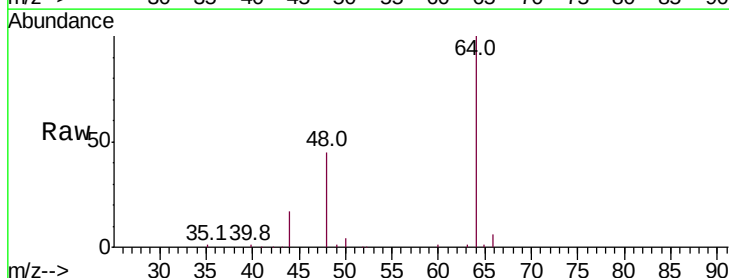
Acq: 07 Oct 2019 16:00

Tgt Ion: 50 Resp: 905

Ion Ratio Lower Upper

50 100

52 28.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

500

400

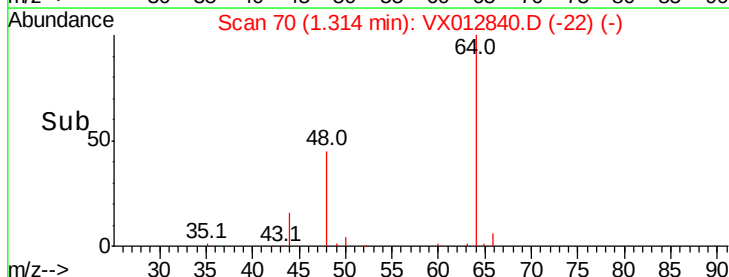
300

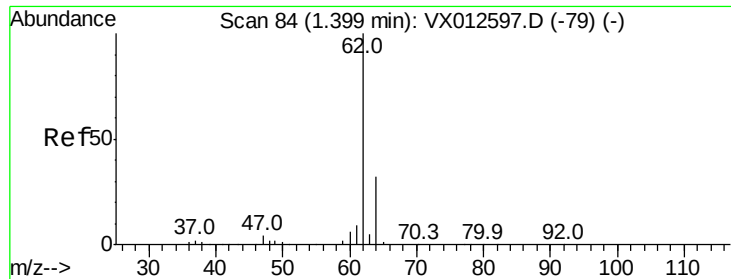
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 2.931 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

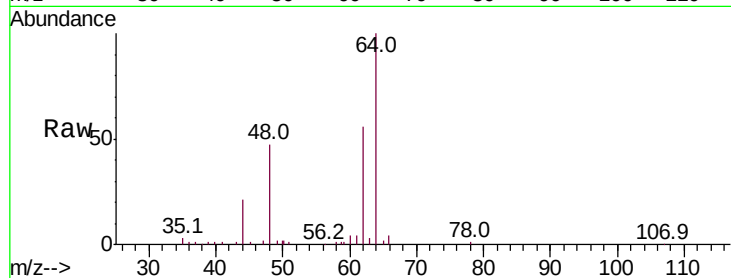
ClientSampled :

Tot Ion: 62 Resp: 6780

Ion Ratio Lower Upper

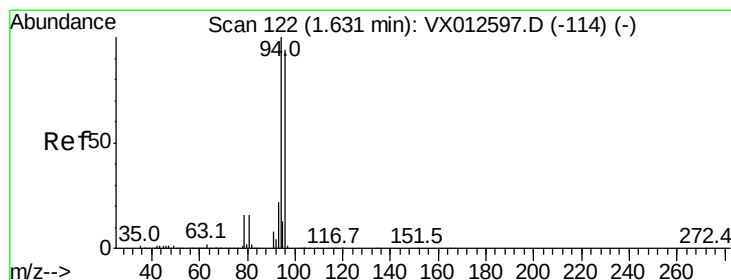
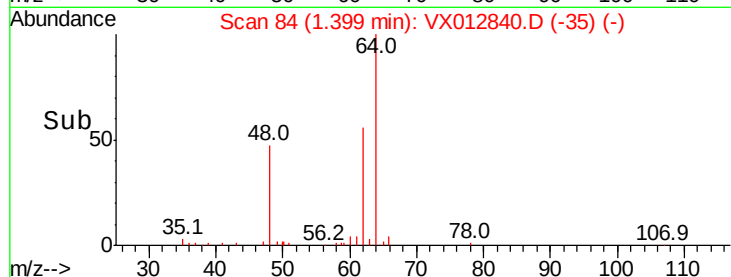
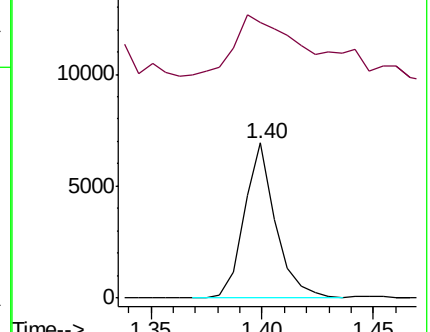
62 100

64 33.7 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.464 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX012840.D

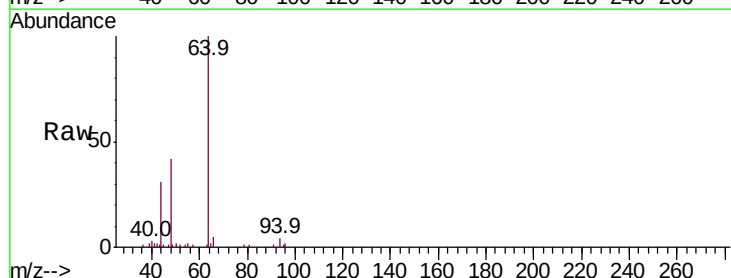
Acq: 07 Oct 2019 16:00

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

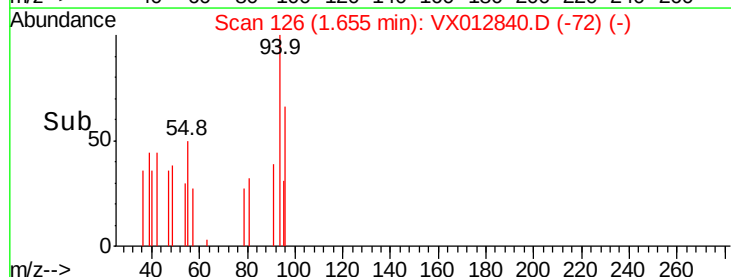
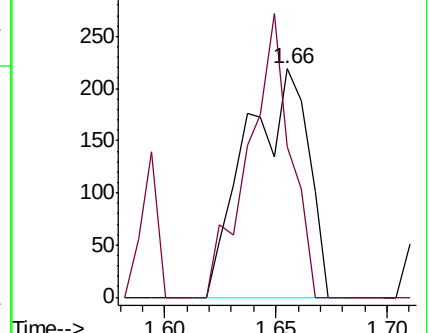
94 100

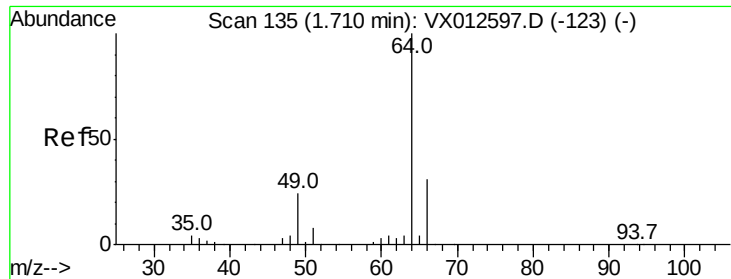
96 65.8 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.447 ug/l

RT: 1.66 min Scan# 126

Delta R.T. -0.05 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

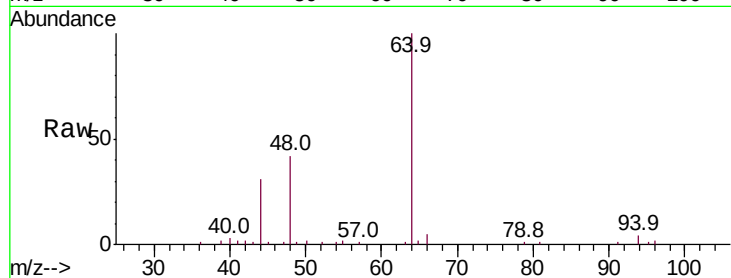
ClientSampleId :

Tot Ion: 64 Resp: 697

Ion Ratio Lower Upper

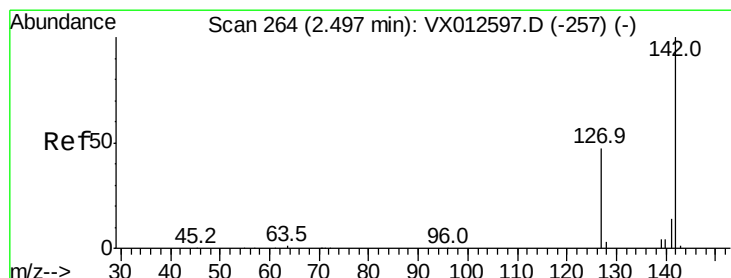
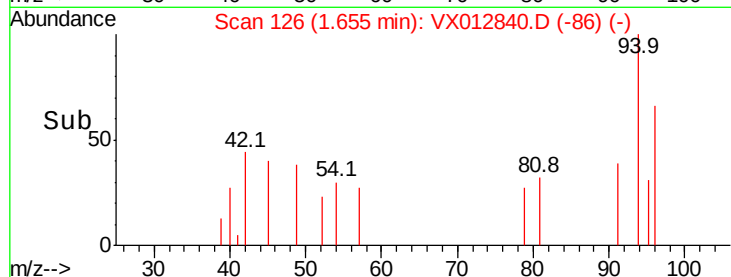
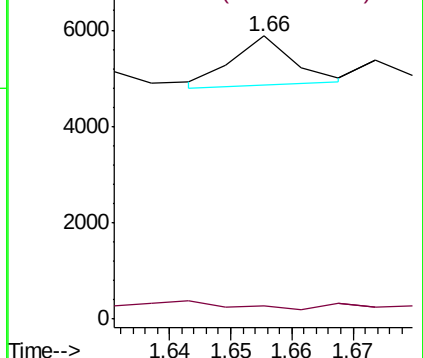
64 100

66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.015 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

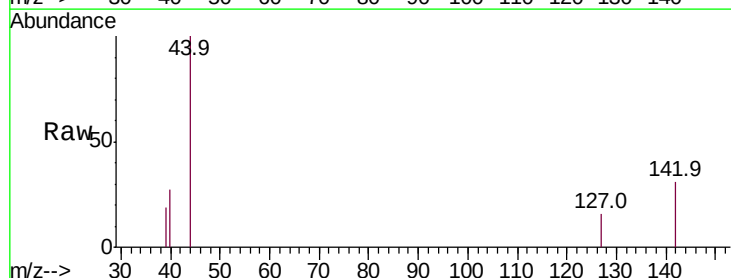
Tgt Ion:142 Resp: 144

Ion Ratio Lower Upper

142 100

127 13.2 40.8 61.2#

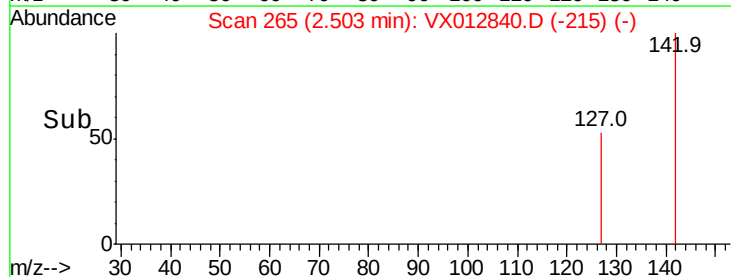
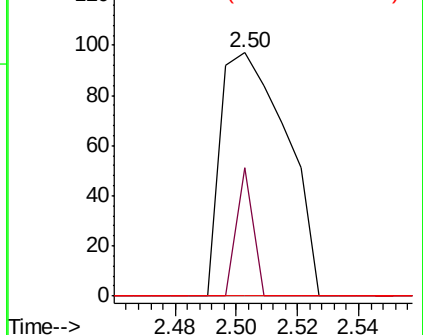
141 0.0 12.1 18.1#

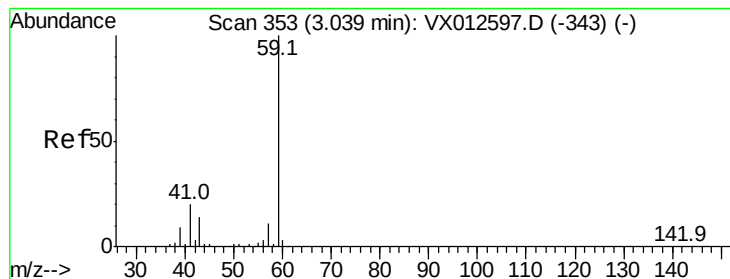


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



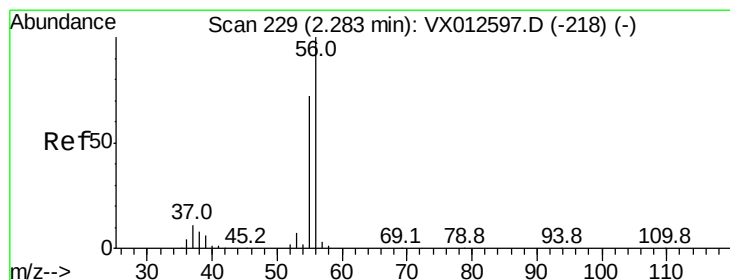
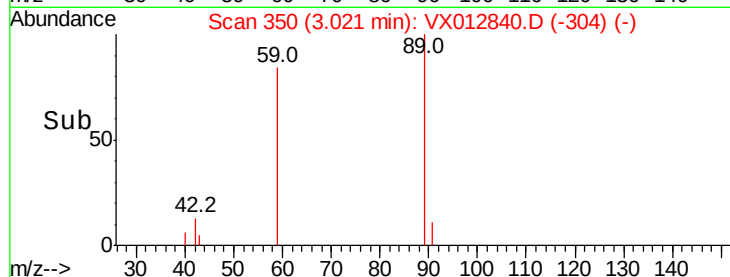
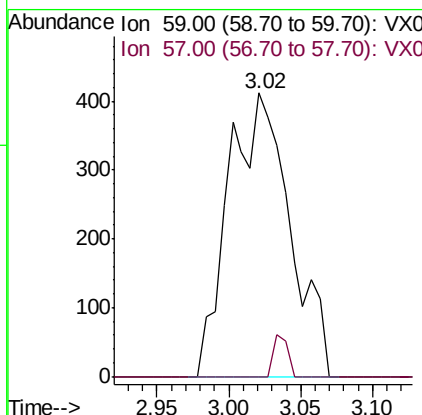
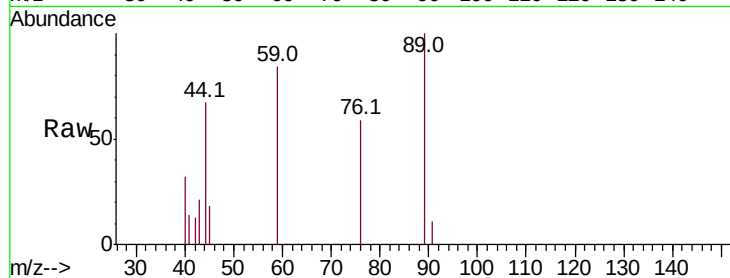


#11

Tert butyl alcohol
Concen: 1.863 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX012840.D
Acq: 07 Oct 2019 16:00

Instrument :
MSVOA_X
ClientSampled :

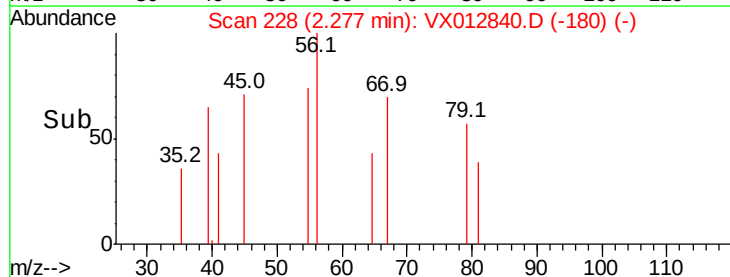
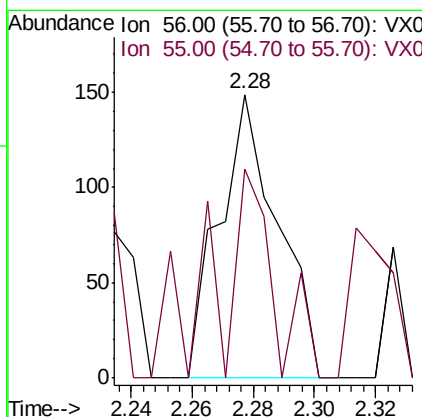
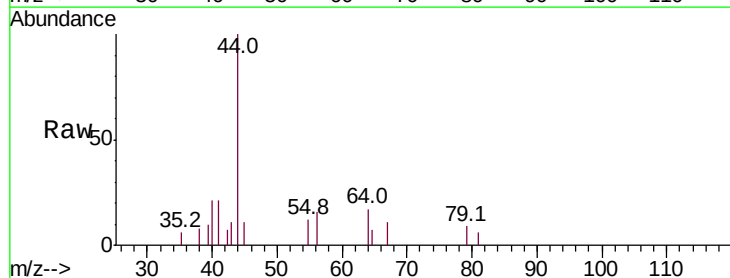
Tot Ion: 59 Resp: 1221
Ion Ratio Lower Upper
59 100
57 3.4 8.3 12.5#

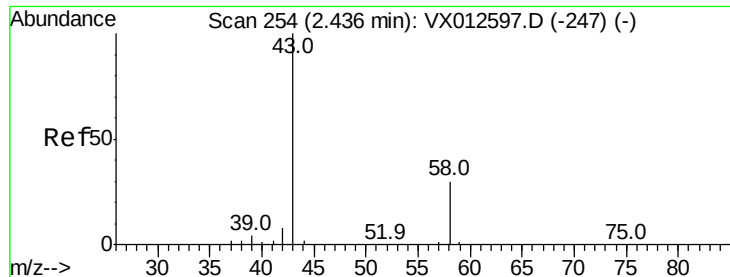


#13

Acrolein
Concen: 10.750 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX012840.D
Acq: 07 Oct 2019 16:00

Tgt Ion: 56 Resp: 197
Ion Ratio Lower Upper
56 100
55 63.5 55.8 83.8





#16

Acetone

Concen: 3.002 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

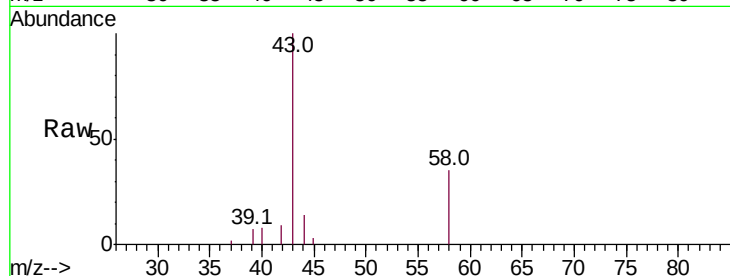
ClientSampleId :

Tot Ion: 43 Resp: 4171

Ion Ratio Lower Upper

43 100

58 34.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2500

2000

1500

1000

500

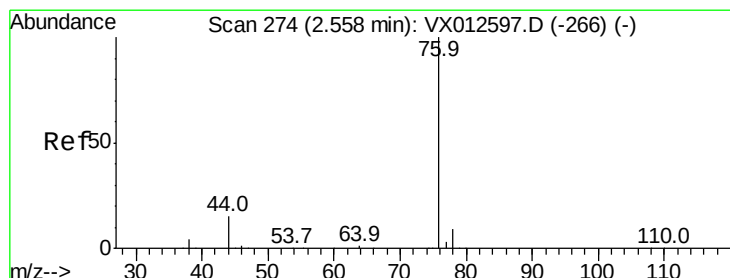
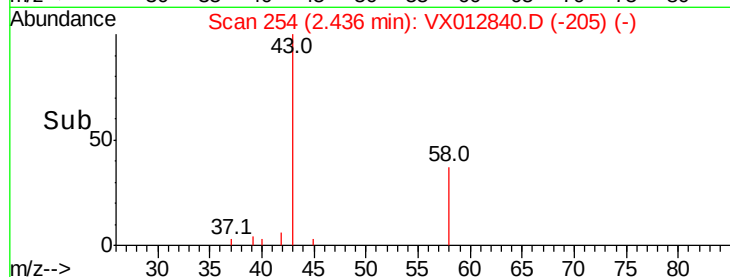
0

Time-->

2.40

2.45

2.50



#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012840.D

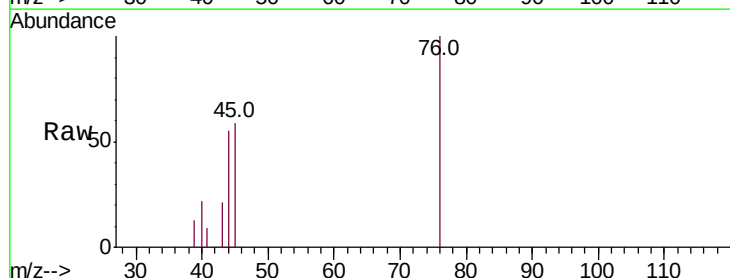
Acq: 07 Oct 2019 16:00

Tgt Ion: 76 Resp: 1217

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

600

400

200

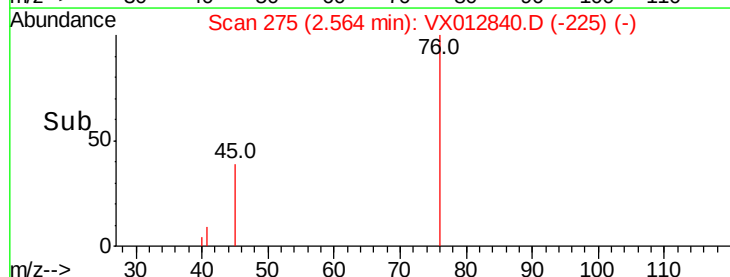
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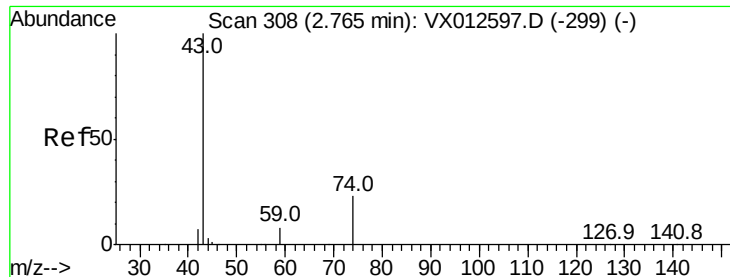
Time-->

2.50

2.55

2.60

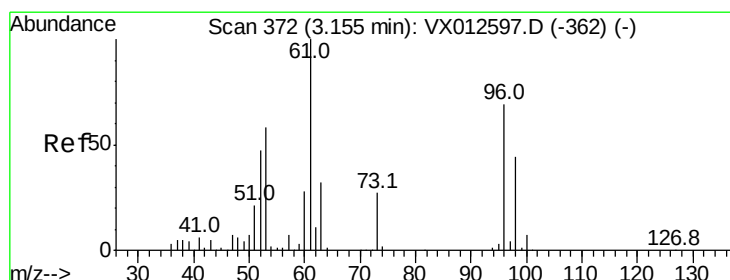
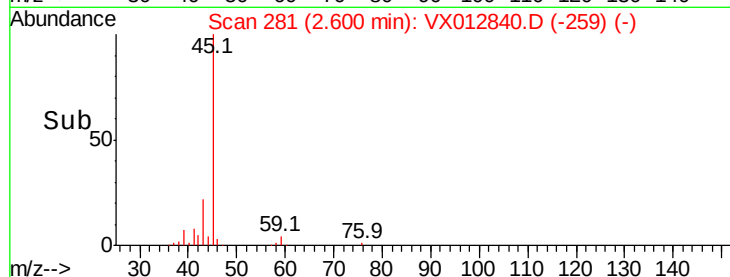
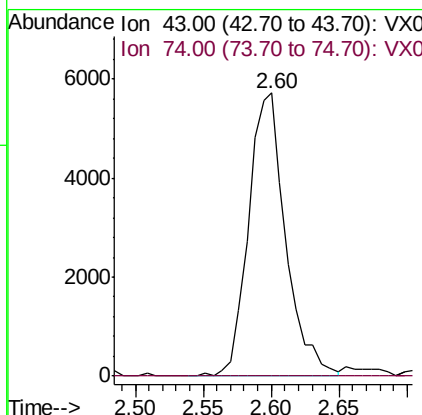
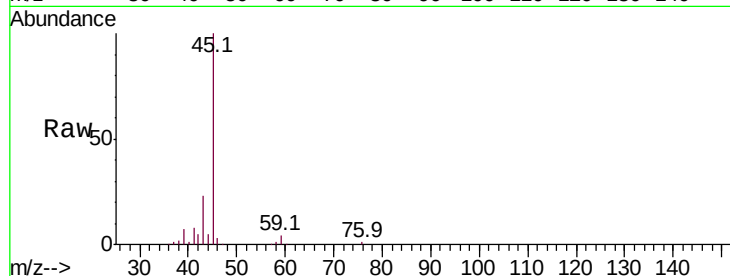




#18
Methvl Acetate
Concen: 3.345 ug/l
RT: 2.60 min Scan# 281
Delta R.T. -0.16 min
Lab File: VX012840.D
Acq: 07 Oct 2019 16:00

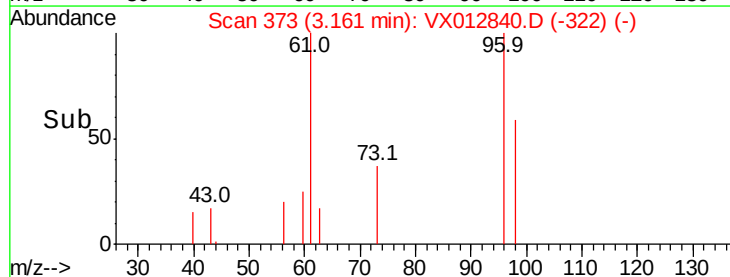
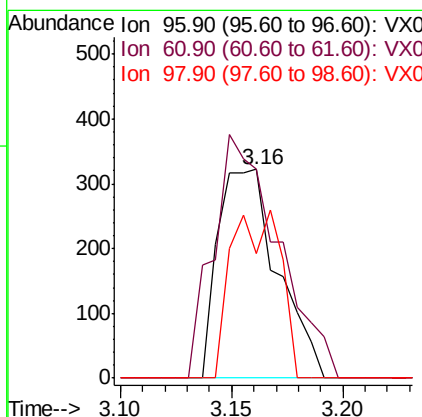
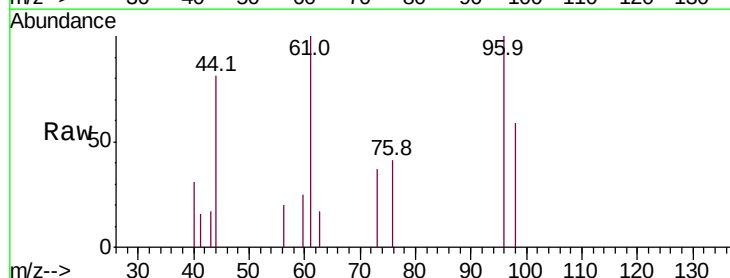
Instrument :
MSVOA_X
ClientSampleId :

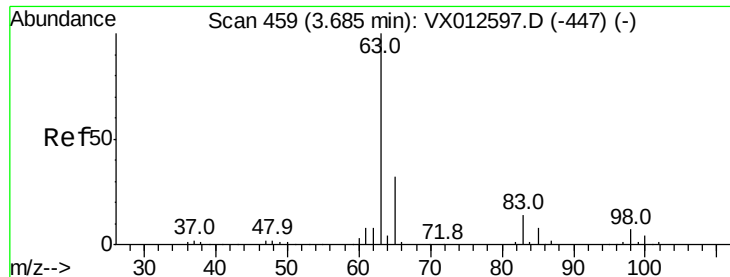
Tot Ion: 43 Resp: 10942
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#21
trans-1,2-Dichloroethene
Concen: 0.280 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX012840.D
Acq: 07 Oct 2019 16:00

Tgt Ion: 96 Resp: 601
Ion Ratio Lower Upper
96 100
61 100.3 112.0 168.0#
98 59.6 47.8 71.8

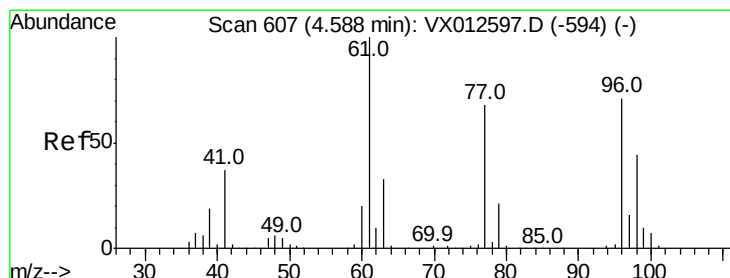
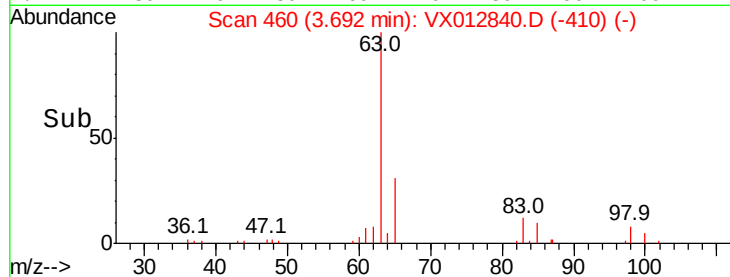
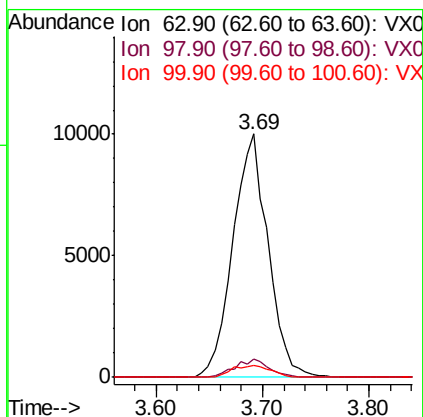
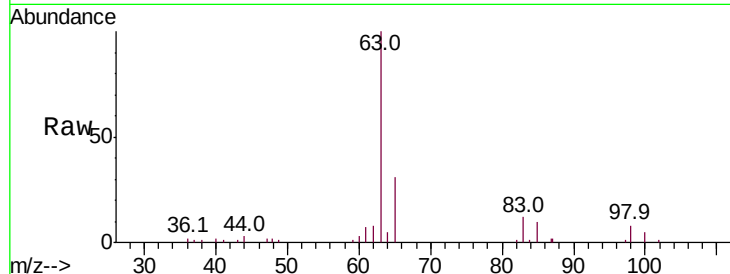




#24
 1,1-Dichloroethane
 Concen: 5.763 ug/l
 RT: 3.69 min Scan# 460
 Delta R.T. 0.01 min
 Lab File: VX012840.D
 Acq: 07 Oct 2019 16:00

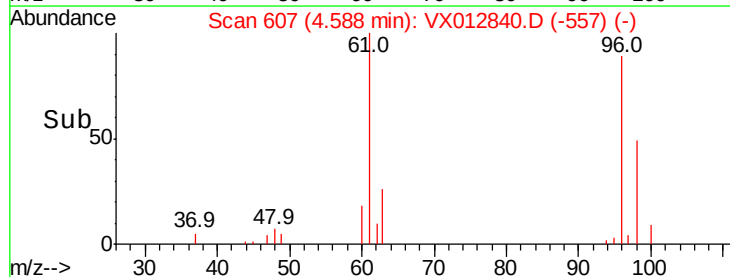
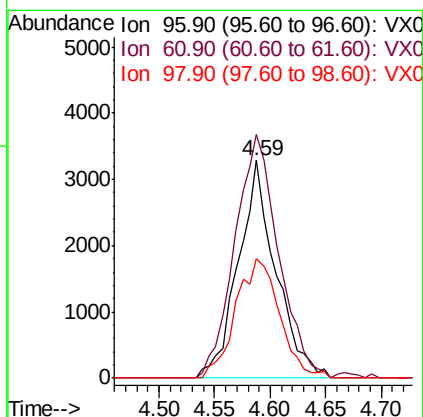
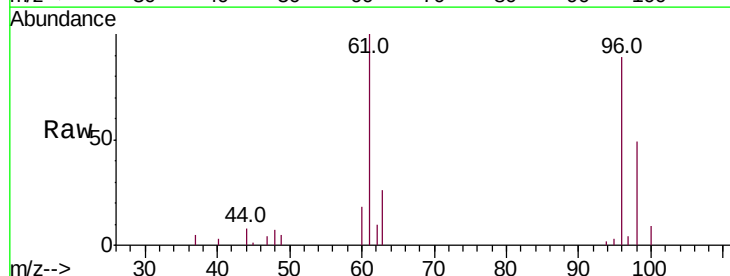
Instrument :
 MSVOA_X
 ClientSampled :

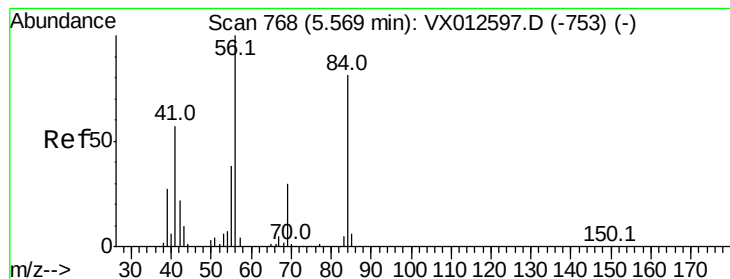
Tot Ion: 63 Resp: 23257
 Ion Ratio Lower Upper
 63 100
 98 7.5 3.9 11.7
 100 4.8 2.3 6.9



#27
 cis-1,2-Dichloroethene
 Concen: 3.092 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012840.D
 Acq: 07 Oct 2019 16:00

Tgt Ion: 96 Resp: 7697
 Ion Ratio Lower Upper
 96 100
 61 130.3 0.0 319.4
 98 64.1 0.0 130.6





#31

Cyclohexane

Concen: 1.117 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :
MSVOA_X
ClientSampleId :

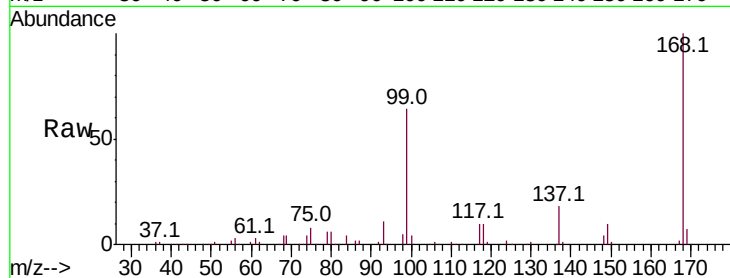
Tot Ion: 56 Resp: 4078

Ion Ratio Lower Upper

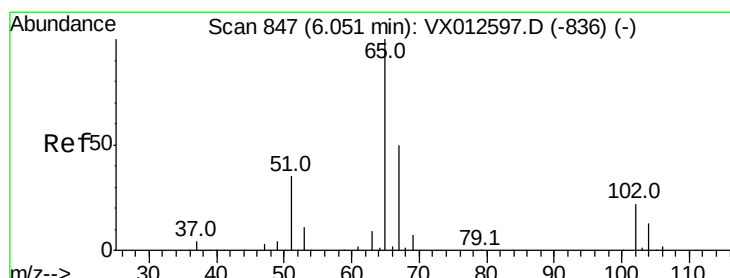
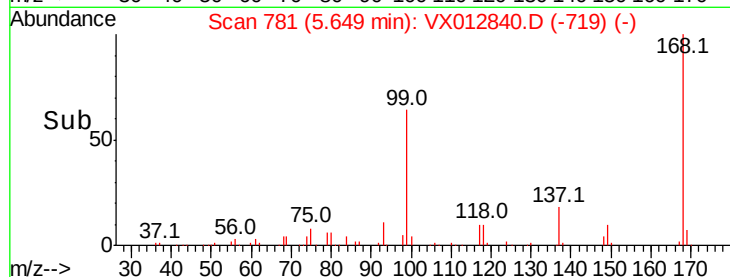
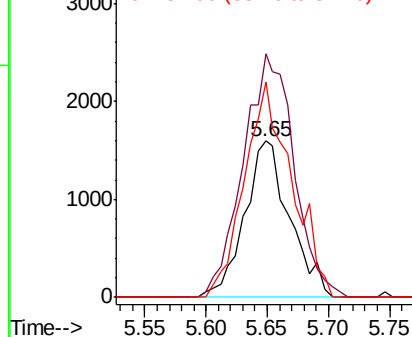
56 100

69 156.0 25.0 37.6#

84 138.0 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: 44.972 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012840.D

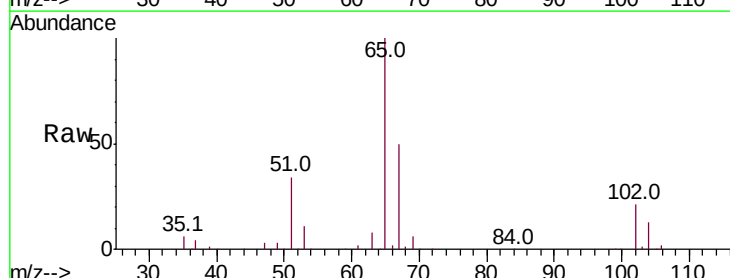
Acq: 07 Oct 2019 16:00

Tgt Ion: 65 Resp: 117962

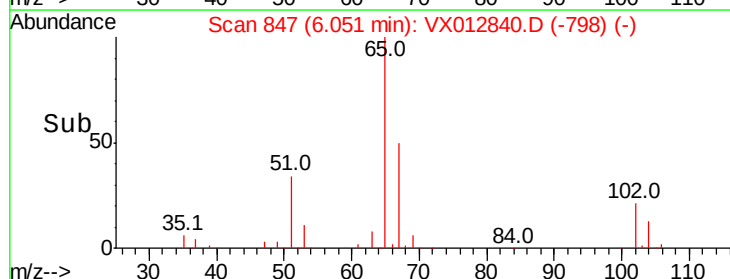
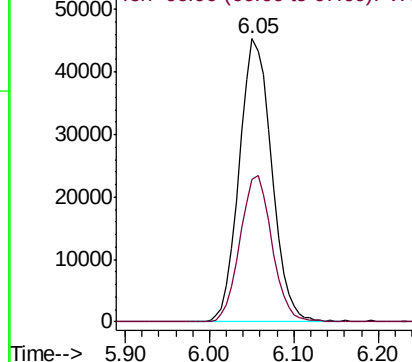
Ion Ratio Lower Upper

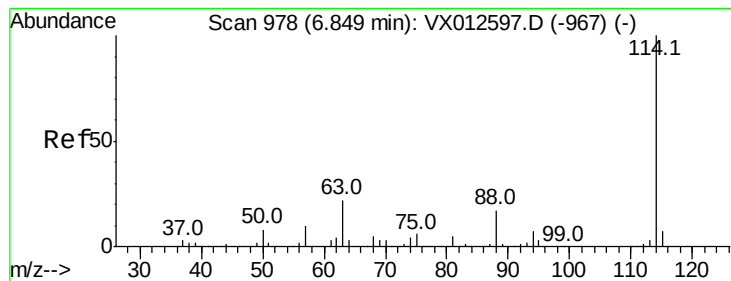
65 100

67 51.1 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: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

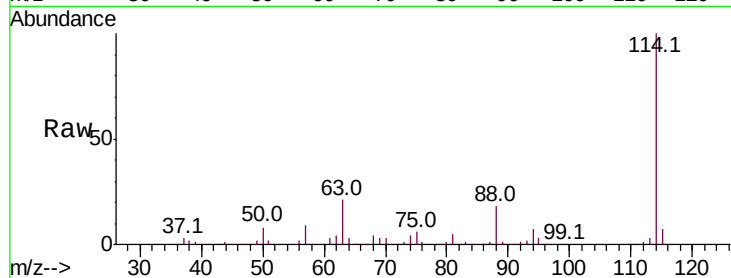
Tot Ion:114 Resp: 303987

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

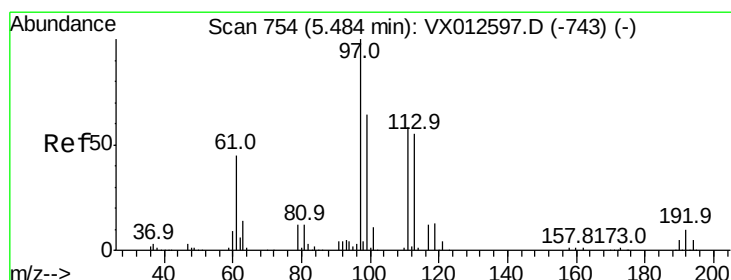
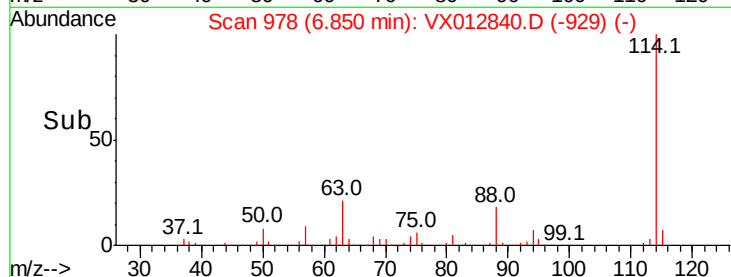
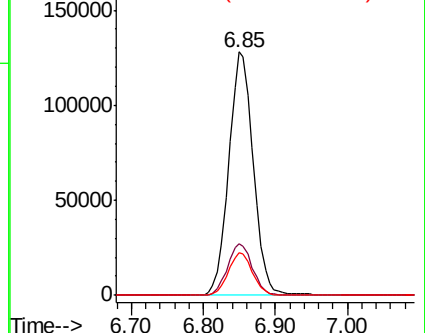
88 17.7 0.0 33.2



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: 49.690 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

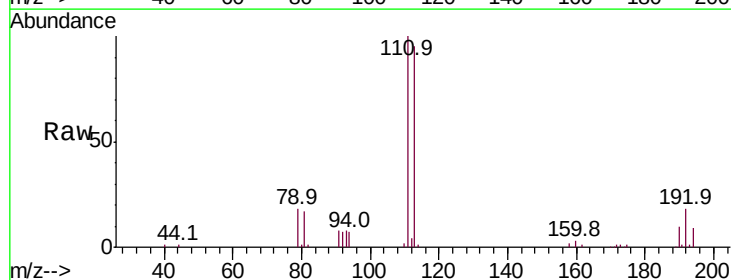
Tgt Ion:113 Resp: 89958

Ion Ratio Lower Upper

113 100

111 104.0 83.4 125.2

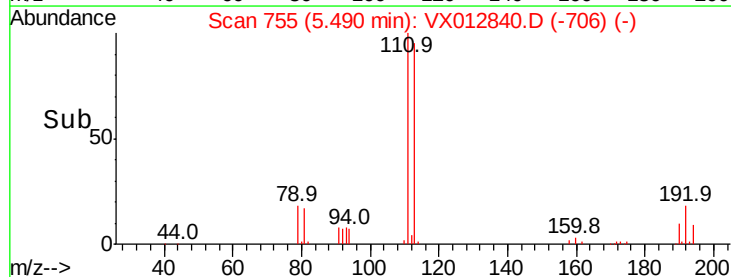
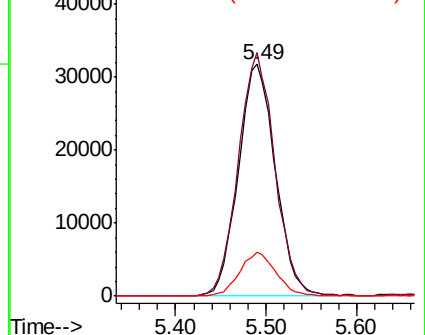
192 18.7 14.4 21.6

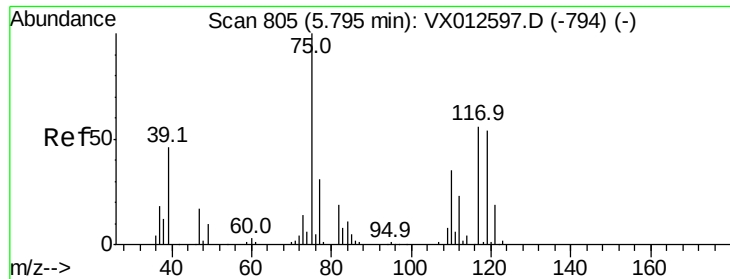


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

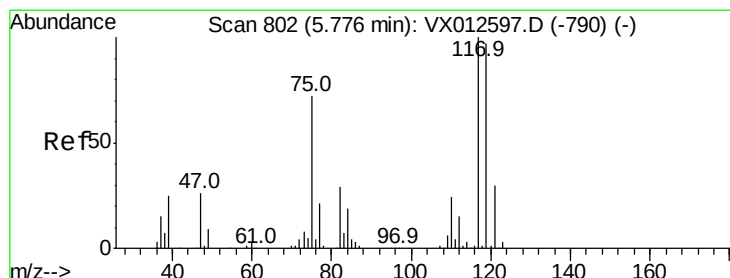
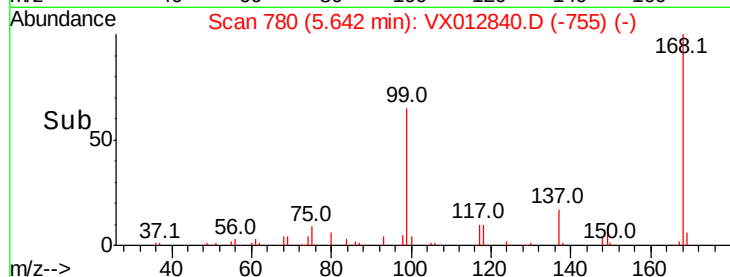
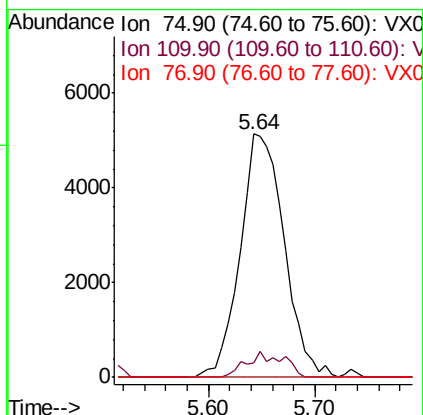
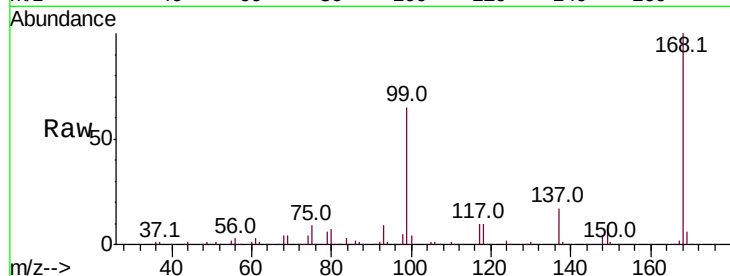




#36
 1,1-Dichloropropene
 Concen: 5.082 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX012840.D
 Acq: 07 Oct 2019 16:00

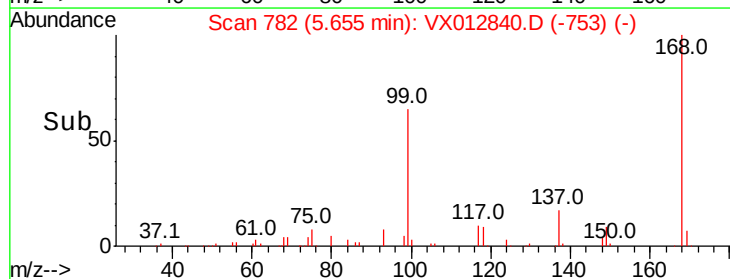
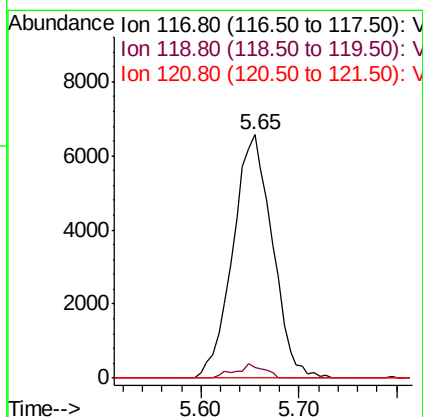
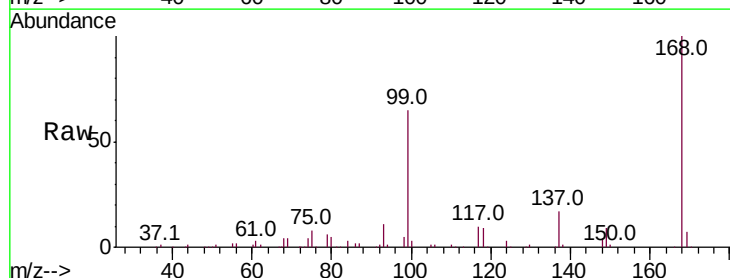
Instrument :
 MSVOA_X
 ClientSampleId :

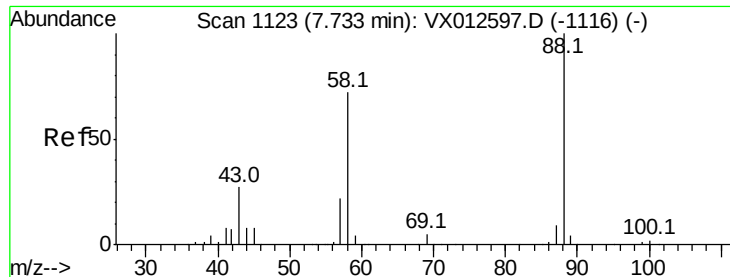
Tot Ion: 75 Resp: 14892
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.187 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012840.D
 Acq: 07 Oct 2019 16:00

Tgt Ion: 117 Resp: 18415
 Ion Ratio Lower Upper
 117 100
 119 4.6 75.7 113.5#
 121 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 27.205 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

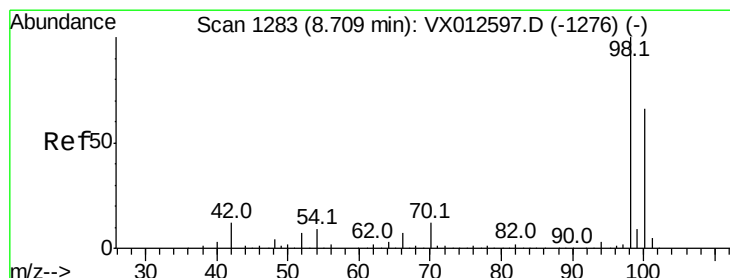
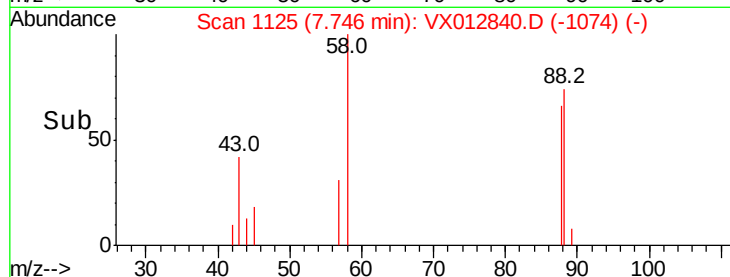
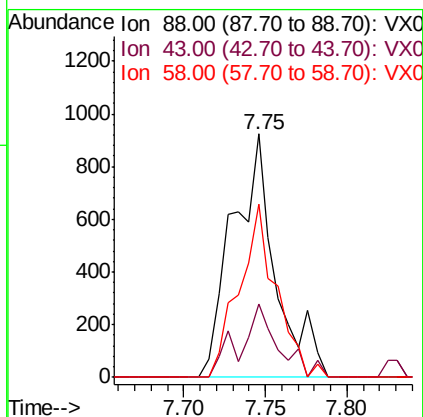
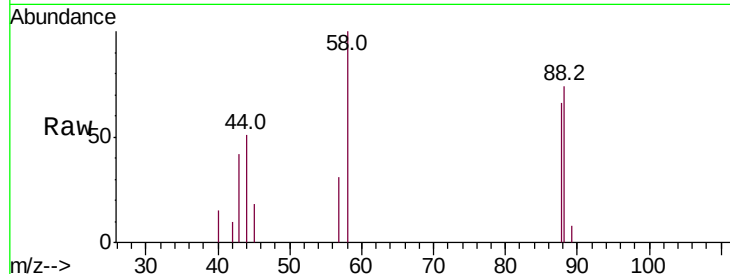
Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 1695

Ion	Ratio	Lower	Upper
88	100		
43	27.4	29.4	44.0#
58	61.2	57.5	86.3



#50

Toluene-d8

Concen: 50.600 ug/l

RT: 8.71 min Scan# 1283

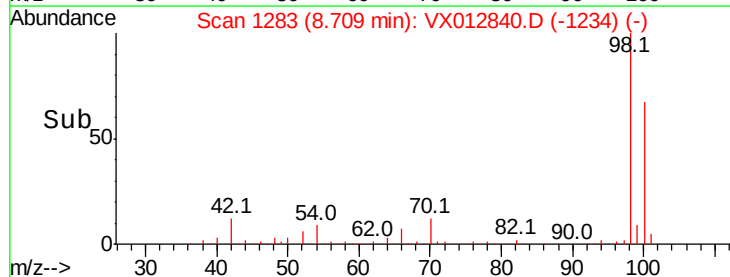
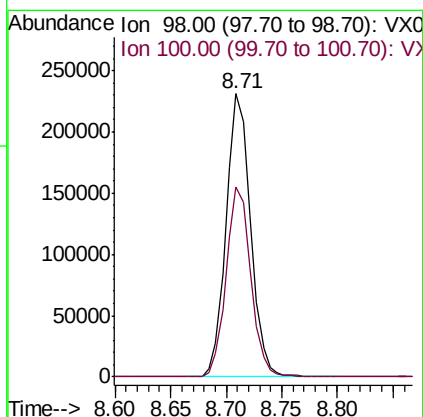
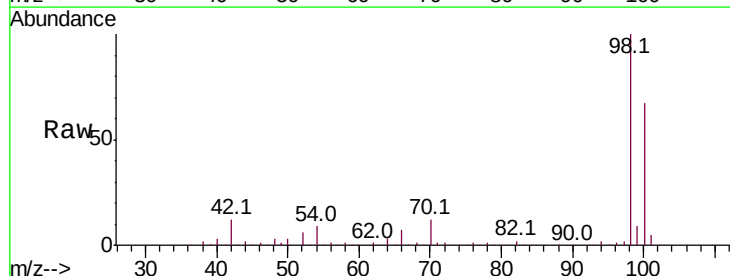
Delta R.T. 0.00 min

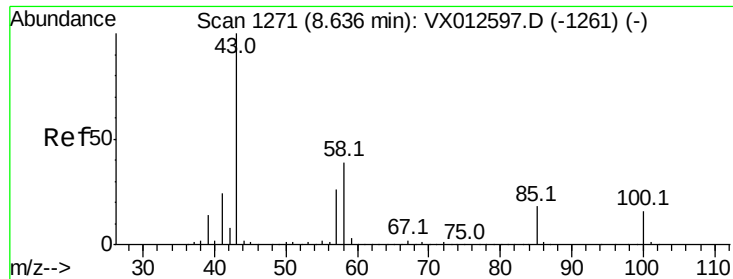
Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Tgt Ion: 98 Resp: 352775

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.4	80.2





#51

4-Methyl-2-Pentanone

Concen: 0.459 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

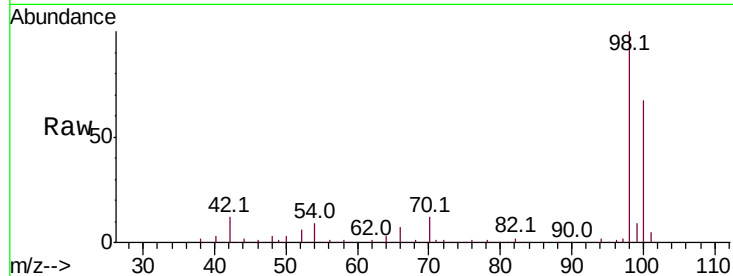
ClientSampleId :

Tot Ion: 43 Resp: 1624

Ion Ratio Lower Upper

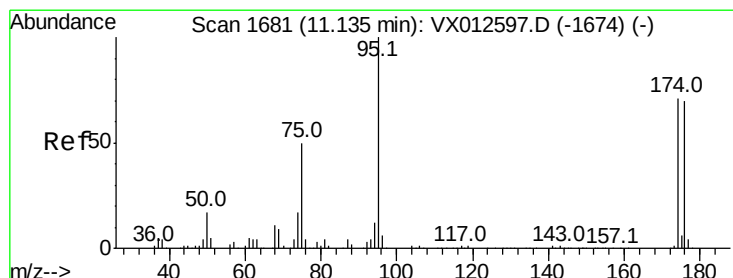
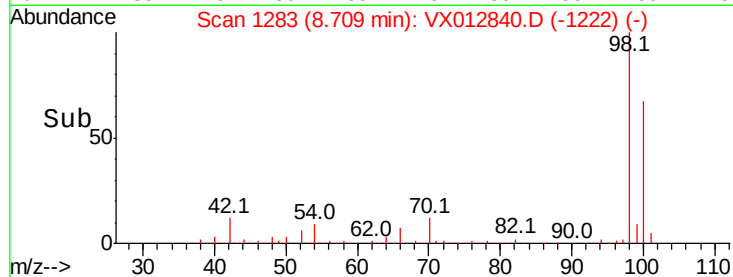
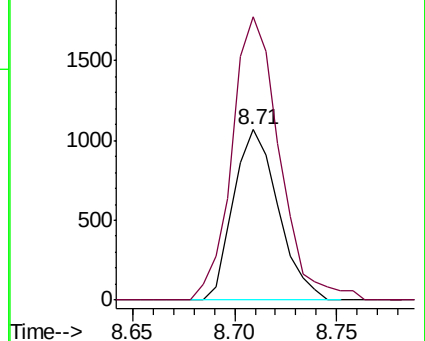
43 100

58 176.9 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: 43.231 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

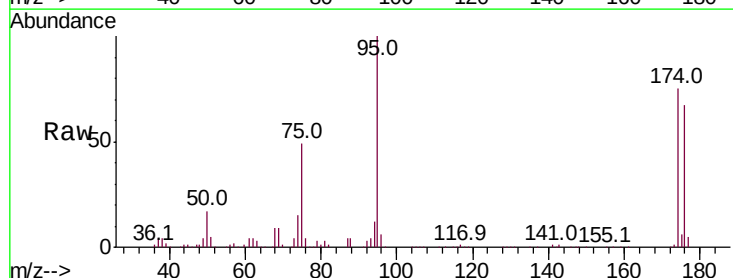
Tgt Ion: 95 Resp: 118512

Ion Ratio Lower Upper

95 100

174 71.4 0.0 140.0

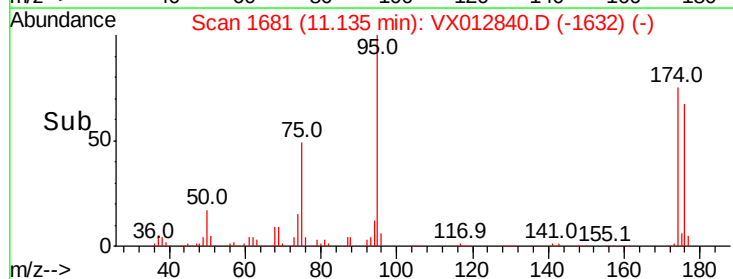
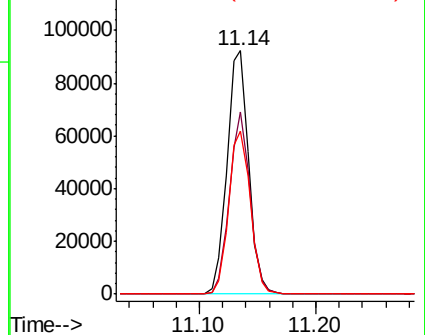
176 67.6 0.0 135.4

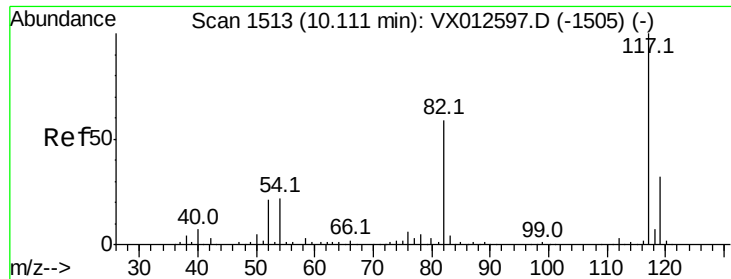


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

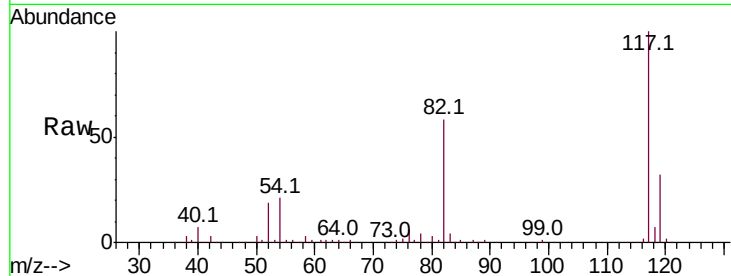




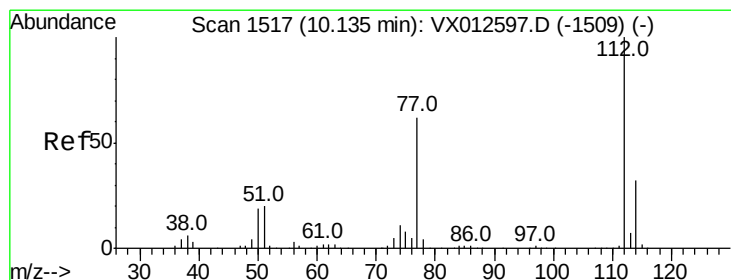
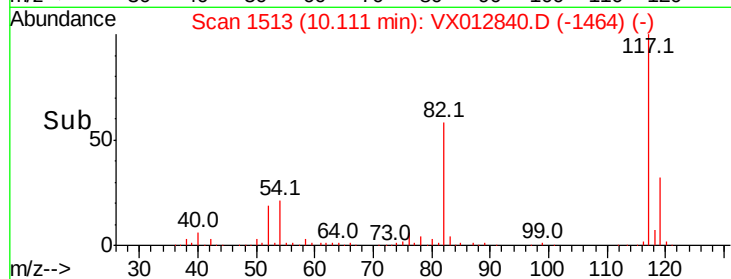
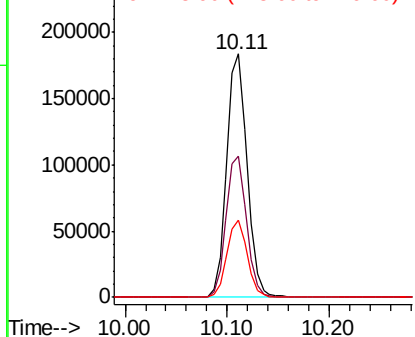
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012840.D
Acq: 07 Oct 2019 16:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 253128
Ion Ratio Lower Upper
117 100
82 57.9 45.9 68.9
119 31.7 25.3 37.9

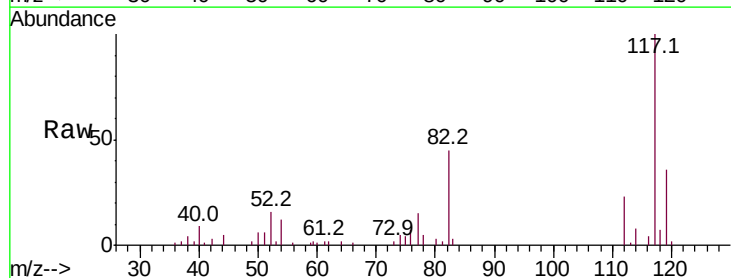


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

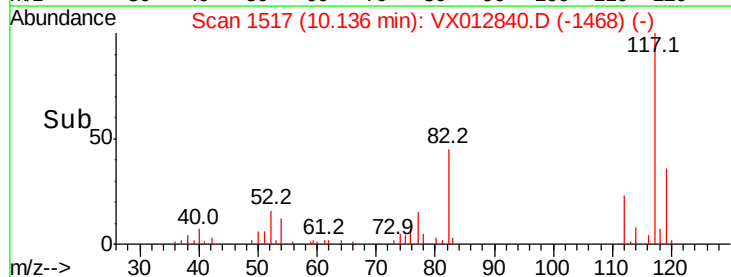
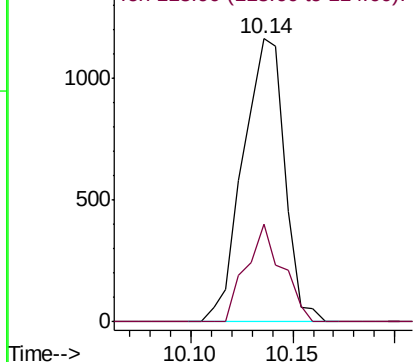


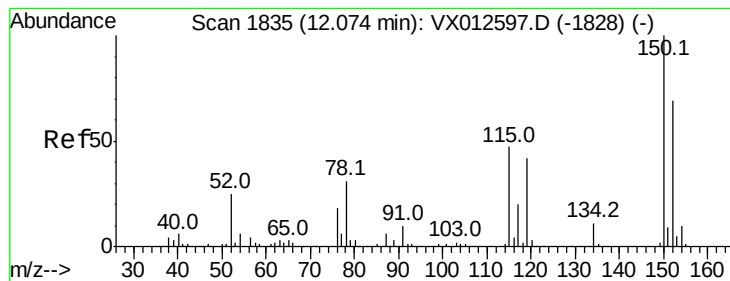
#65
Chlorobenzene
Concen: 0.310 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX012840.D
Acq: 07 Oct 2019 16:00

Tgt Ion:112 Resp: 1652
Ion Ratio Lower Upper
112 100
114 34.5 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

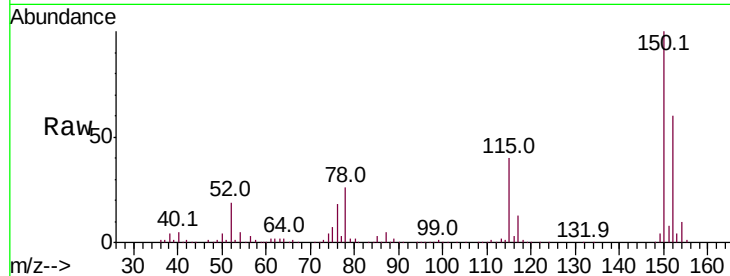
Tot Ion:152 Resp: 92431

Ion Ratio Lower Upper

152 100

115 65.3 44.1 132.3

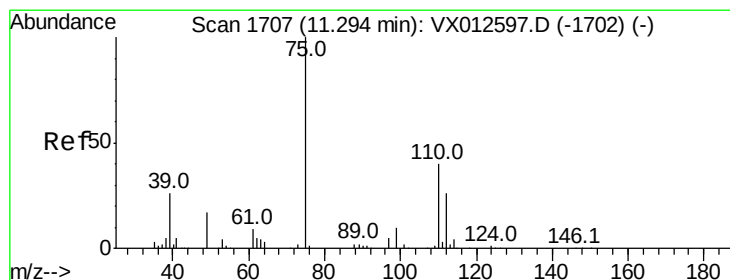
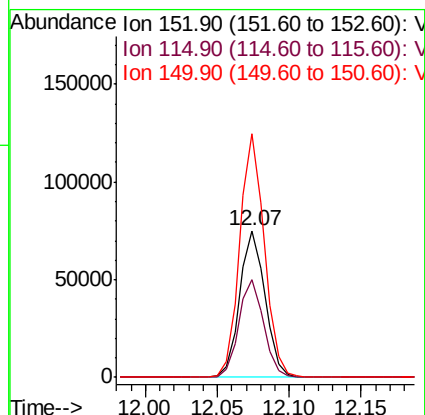
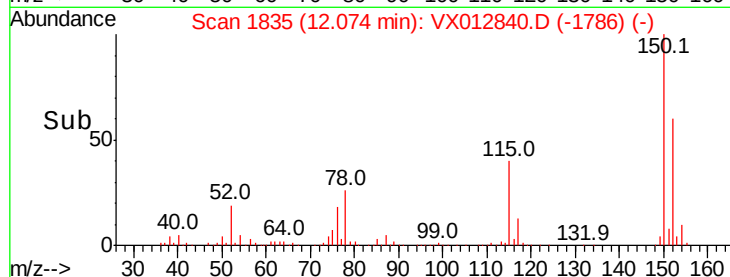
150 160.8 0.0 343.8



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: 23.763 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012840.D

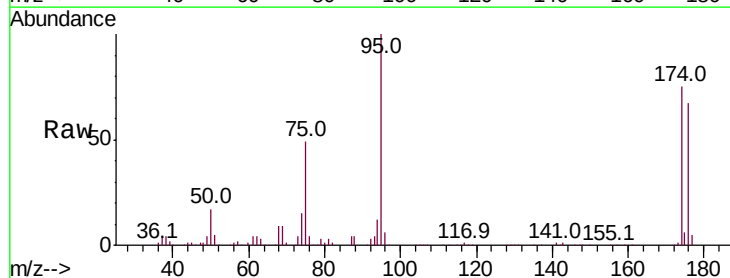
Acq: 07 Oct 2019 16:00

Tgt Ion: 75 Resp: 58100

Ion Ratio Lower Upper

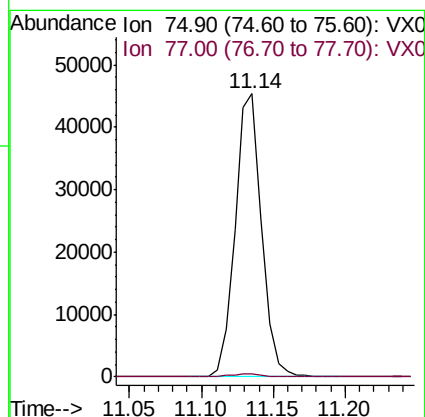
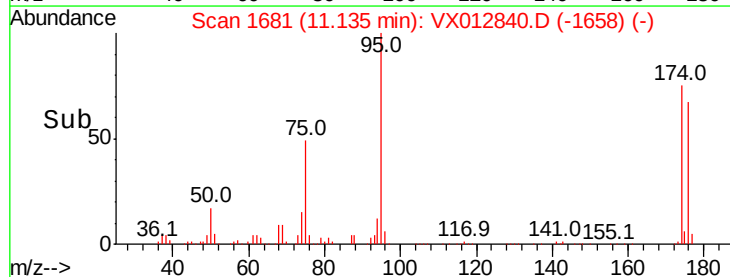
75 100

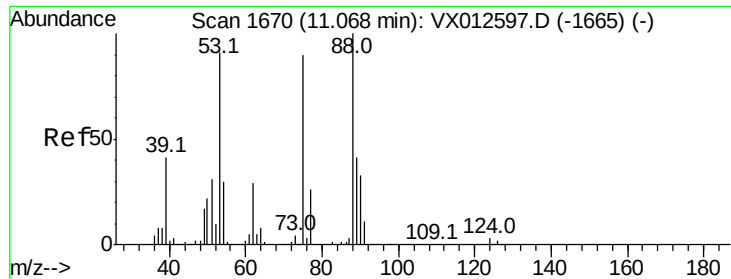
77 1.1 19.7 59.0#



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: 68.098 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012840.D

Acq: 07 Oct 2019 16:00

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 58100

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

