

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071519\
 Data File : VX010874.D
 Acq On : 15 Jul 2019 11:12
 Operator : JC/SP
 Sample : K3779-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 390711762-TRIP-BLANK

Quant Time: Jul 16 01:56:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241393	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375913	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	347828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	163657	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	126555	55.92	ug/l	0.00
Spiked Amount						
			Recovery	=	111.84%	
35) Dibromofluoromethane	5.50	113	119904	52.13	ug/l	0.00
Spiked Amount						
			Recovery	=	104.26%	
50) Toluene-d8	8.71	98	451177	51.27	ug/l	0.00
Spiked Amount						
			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	11.13	95	160981	50.67	ug/l	0.00
Spiked Amount						
			Recovery	=	101.34%	

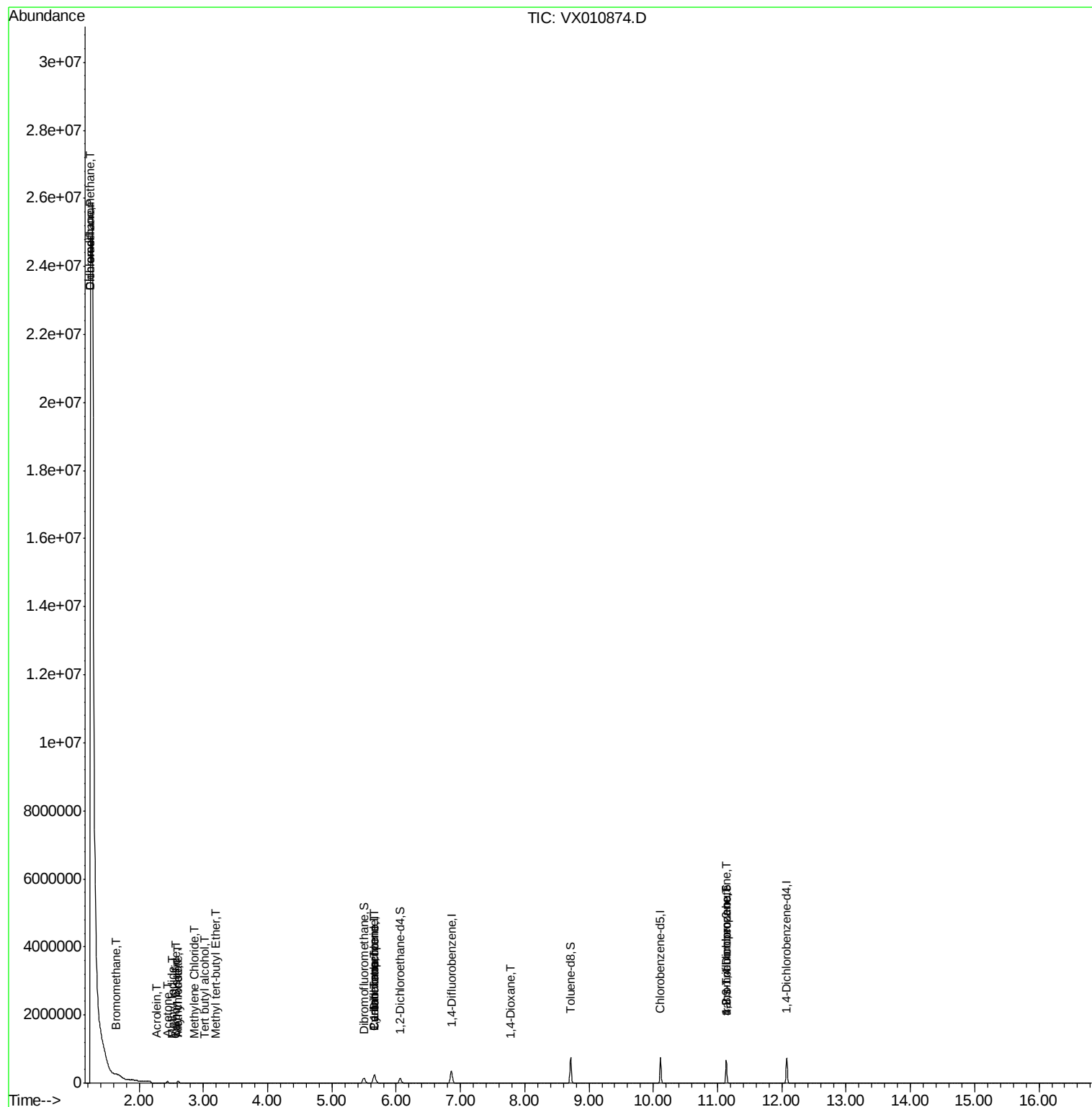
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.25	85	447	0.266	ug/l	96
3) Chloromethane	1.25	50	659938	337.702	ug/l #	43
5) Bromomethane	1.65	94	5790	5.552	ug/l	95
10) Methyl Iodide	2.51	142	2218	0.756	ug/l	93
11) Tert butyl alcohol	3.02	59	1432	2.418	ug/l #	86
13) Acrolein	2.26	56	251	0.639	ug/l #	75
14) Allyl chloride	2.60	41	4795	1.614	ug/l #	58
16) Acetone	2.45	43	42047	37.069	ug/l	97
17) Carbon Disulfide	2.57	76	1779	0.317	ug/l #	78
18) Methyl Acetate	2.60	43	13940	6.166	ug/l #	48
19) Methyl tert-butyl Ether	3.20	73	2237	0.340	ug/l	92
20) Methylene Chloride	2.87	84	516	0.221	ug/l #	82
31) Cyclohexane	5.66	56	4873	1.491	ug/l #	24
36) 1,1-Dichloropropene	5.67	75	15653	5.240	ug/l #	48
38) Carbon Tetrachloride	5.66	117	21516	6.652	ug/l #	15
49) 1,4-Dioxane	7.79	88	31	0.455	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	79062	26.511	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	79062	61.847	ug/l #	16

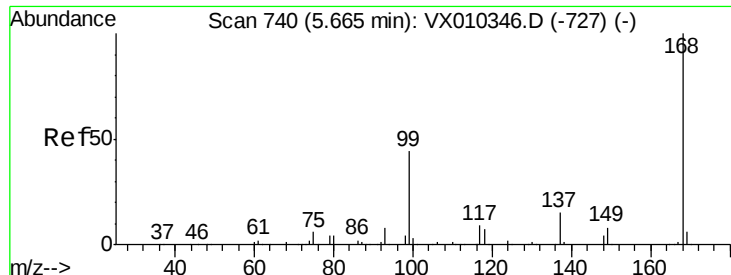
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

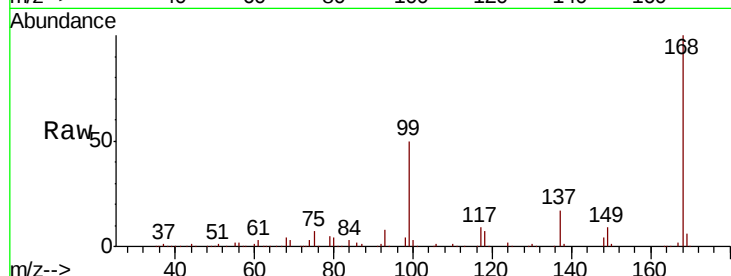
390711762-TRIP-BLANK

Tot Ion:168 Resp: 241393

Ion Ratio Lower Upper

168 100

99 50.3 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

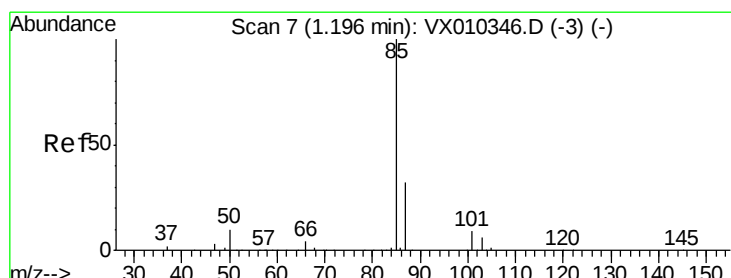
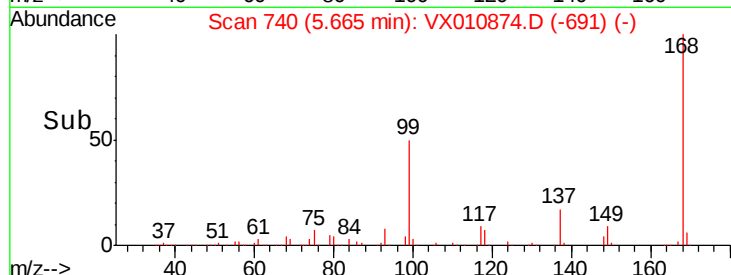
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.266 ug/l

RT: 1.25 min Scan# 15

Delta R.T. 0.05 min

Lab File: VX010874.D

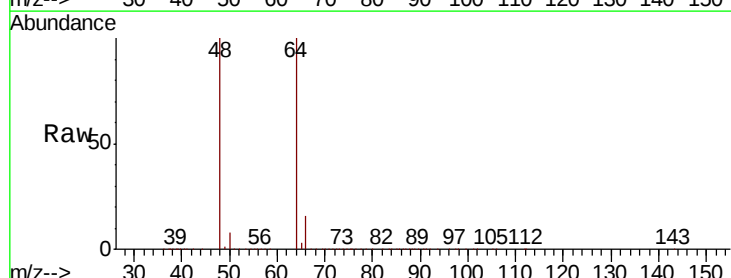
Acq: 15 Jul 2019 11:12

Tgt Ion: 85 Resp: 447

Ion Ratio Lower Upper

85 100

87 34.9 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.25

400

300

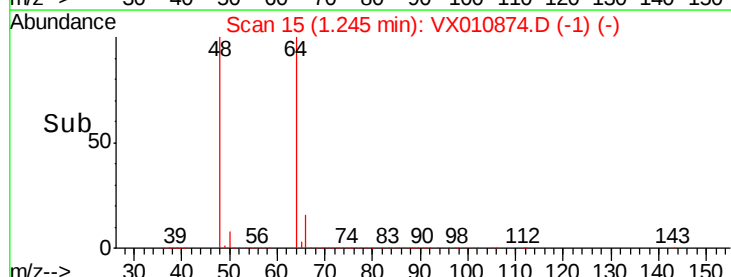
200

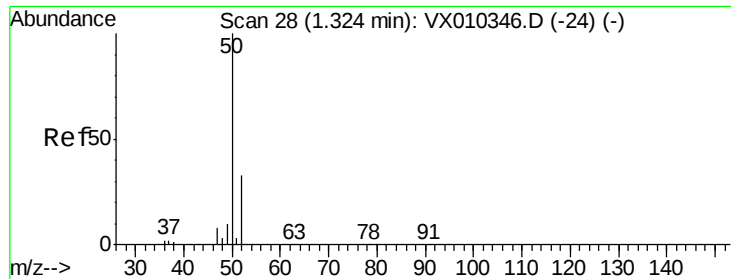
100

0

Time-->

1.25 1.30





#3

Chloromethane

Concen: 337.702 ug/l

RT: 1.25 min Scan# 15

Delta R.T. -0.08 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

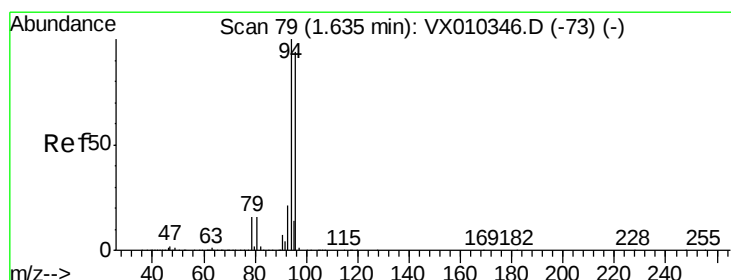
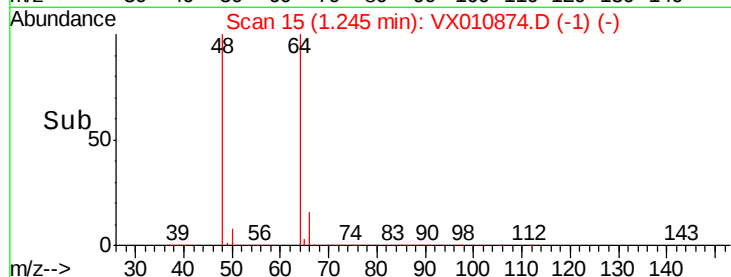
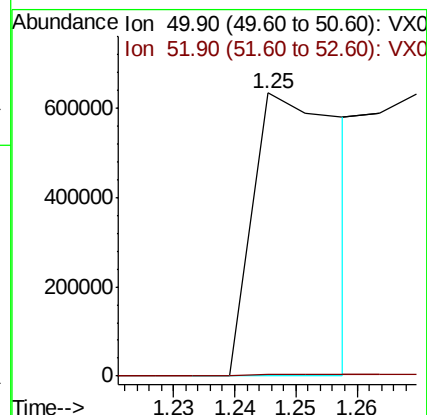
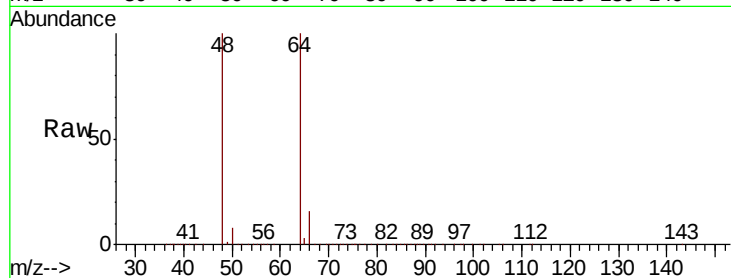
390711762-TRIP-BLANK

Tot Ion: 50 Resp: 659938

Ion Ratio Lower Upper

50 100

52 0.6 26.5 39.7#



#5

Bromomethane

Concen: 5.552 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010874.D

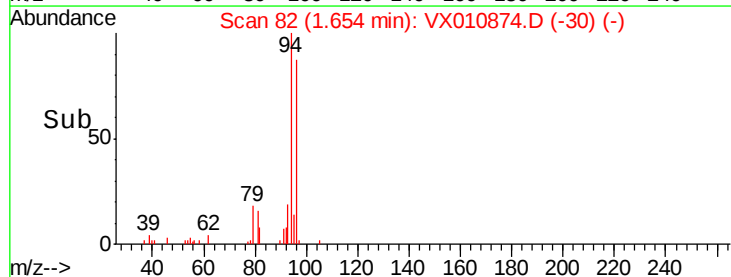
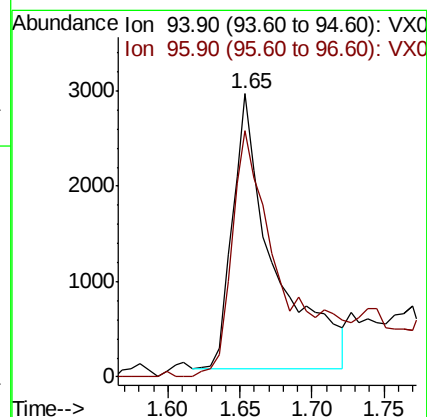
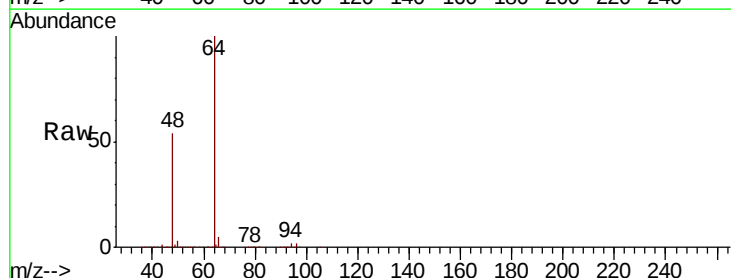
Acq: 15 Jul 2019 11:12

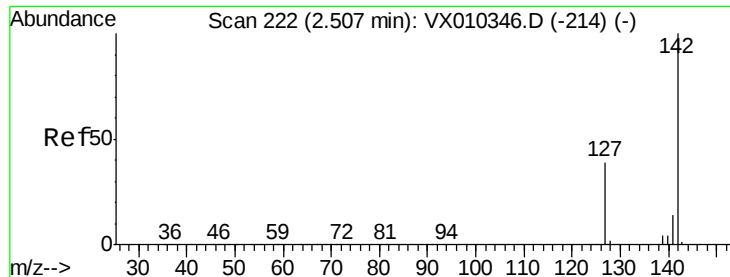
Tgt Ion: 94 Resp: 5790

Ion Ratio Lower Upper

94 100

96 89.8 75.5 113.3

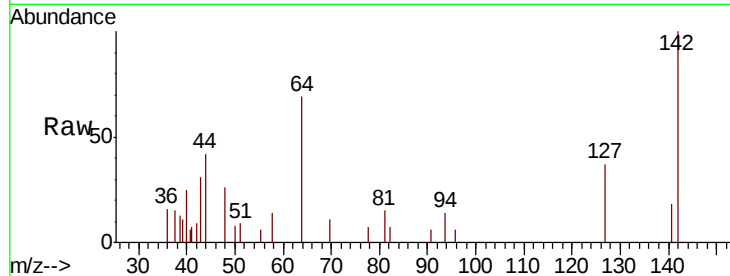




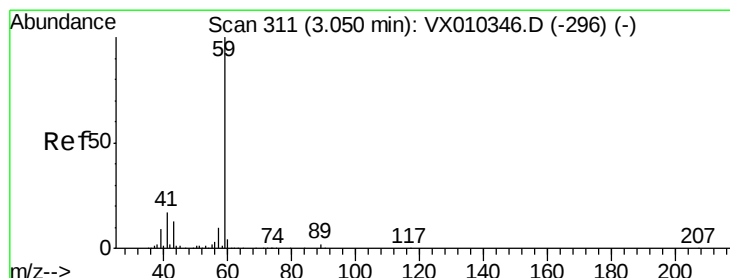
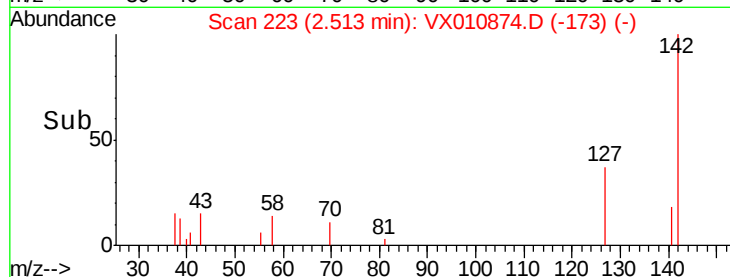
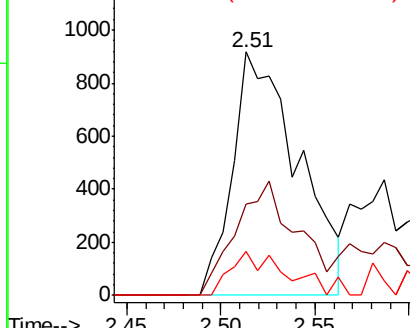
#10
Methvl Iodide
Concen: 0.756 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

Instrument :
MSVOA_X
ClientSampleId :
390711762-TRIP-BLANK

Tot Ion:142 Resp: 2218
Ion Ratio Lower Upper
142 100
127 43.4 31.1 46.7
141 15.9 11.2 16.8

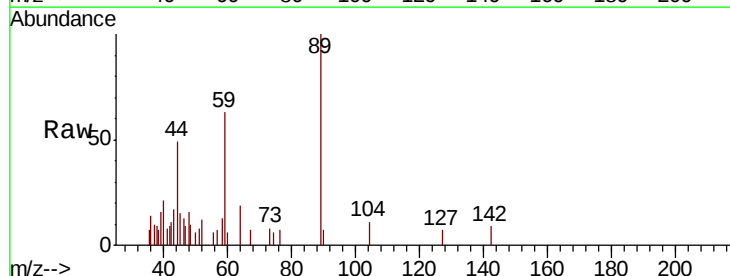


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

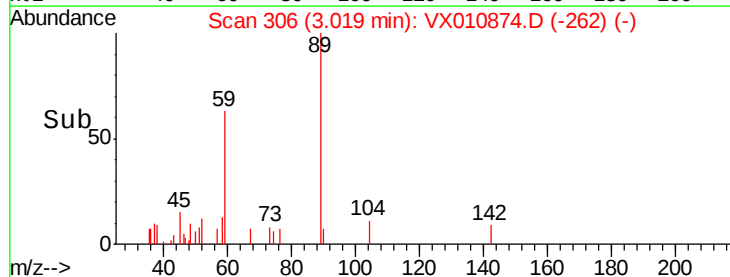
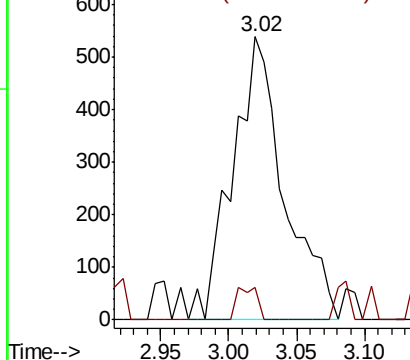


#11
Tert butyl alcohol
Concen: 2.418 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

Tgt Ion: 59 Resp: 1432
Ion Ratio Lower Upper
59 100
57 4.5 7.7 11.5#



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





#13

Acrolein

Concen: 0.639 ug/l

RT: 2.26 min Scan# 182

Delta R.T. -0.03 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

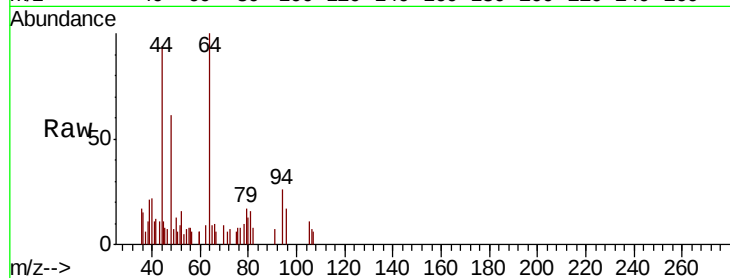
390711762-TRIP-BLANK

Tot Ion: 56 Resp: 251

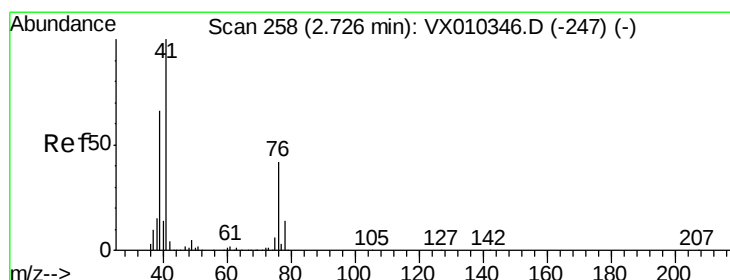
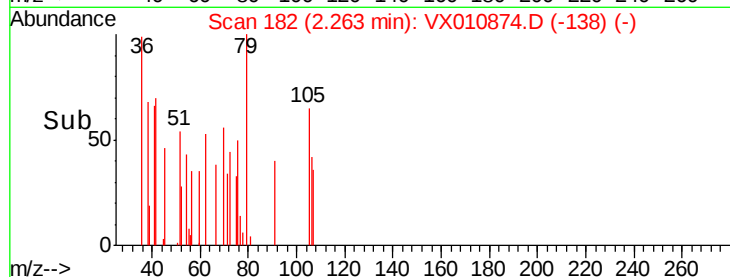
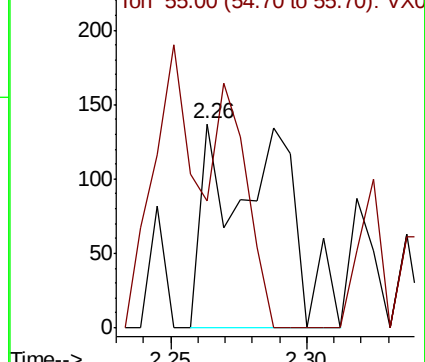
Ion Ratio Lower Upper

56 100

55 50.6 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0



#14

Allyl chloride

Concen: 1.614 ug/l

RT: 2.60 min Scan# 238

Delta R.T. -0.12 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

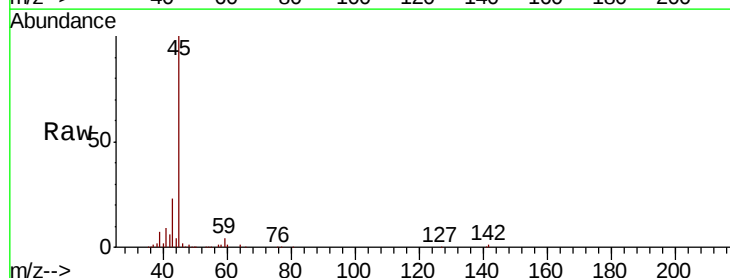
Tgt Ion: 41 Resp: 4795

Ion Ratio Lower Upper

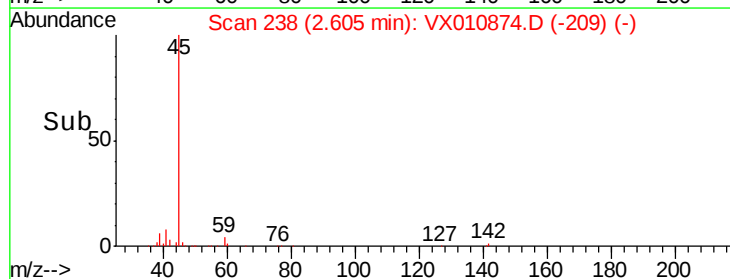
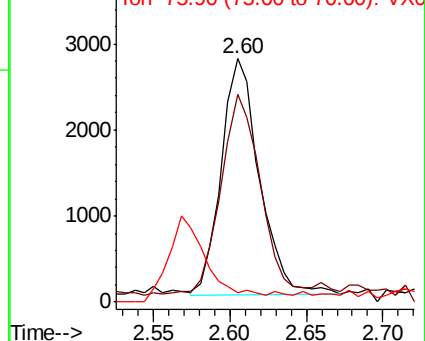
41 100

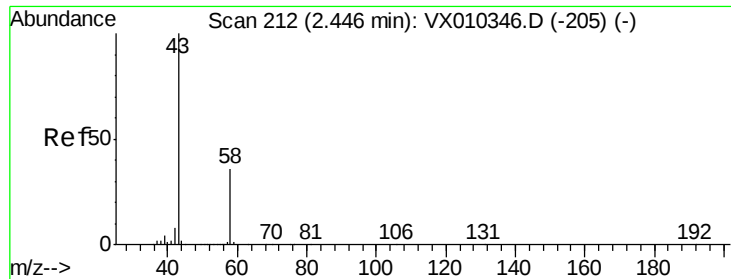
39 85.3 50.3 75.5#

76 0.0 31.3 46.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0





#16

Acetone

Concen: 37.069 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

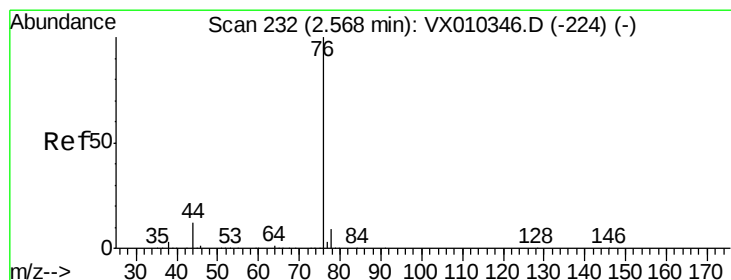
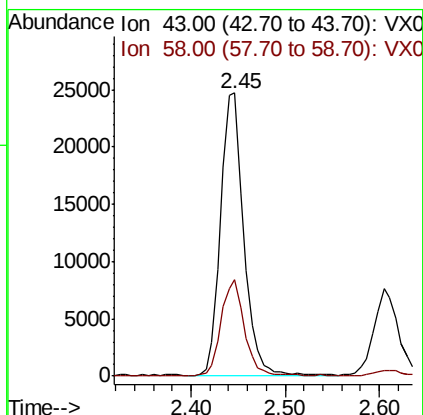
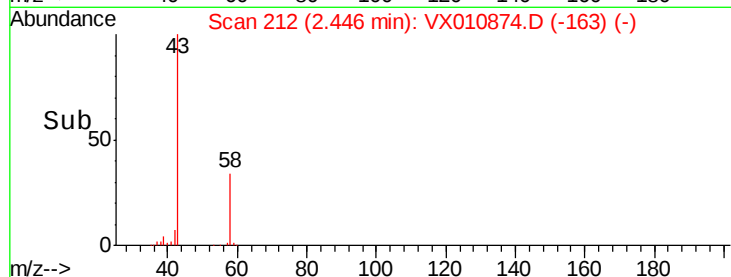
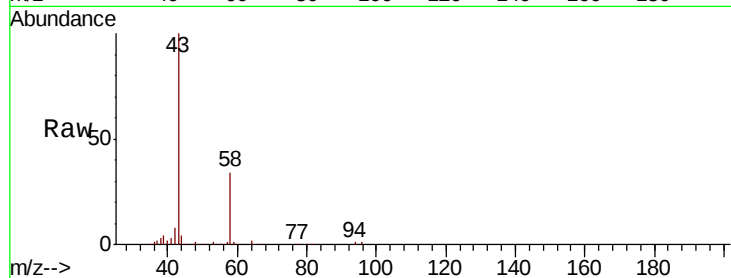
390711762-TRIP-BLANK

Tot Ion: 43 Resp: 42047

Ion Ratio Lower Upper

43 100

58 34.1 28.9 43.3



#17

Carbon Disulfide

Concen: 0.317 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010874.D

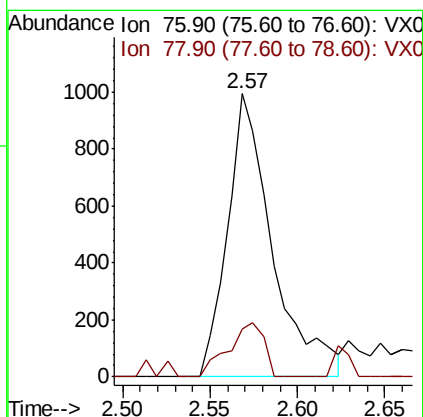
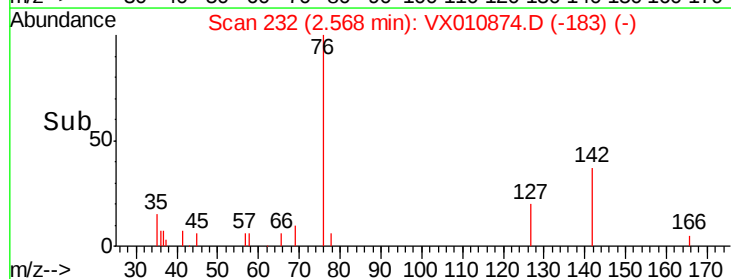
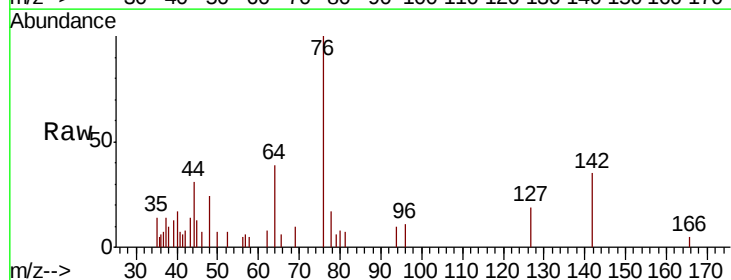
Acq: 15 Jul 2019 11:12

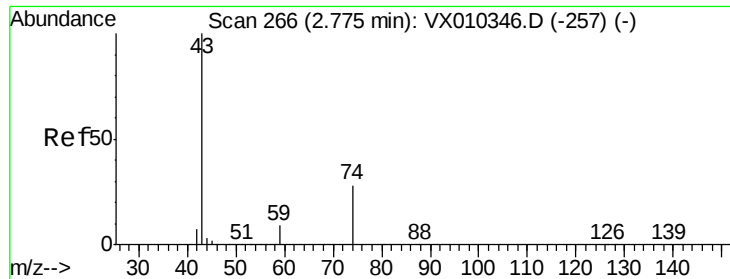
Tgt Ion: 76 Resp: 1779

Ion Ratio Lower Upper

76 100

78 17.1 7.3 10.9#

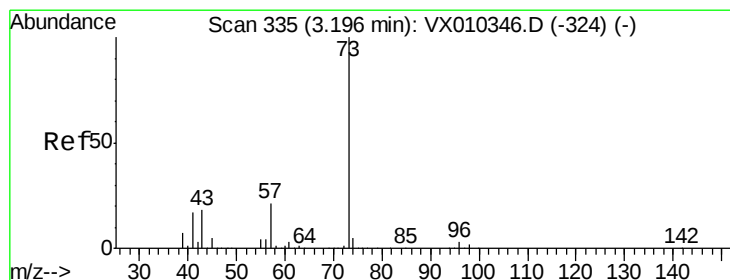
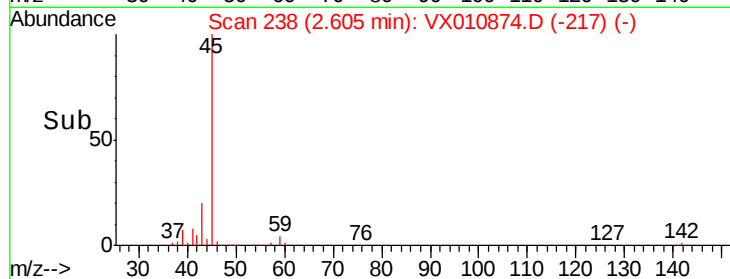
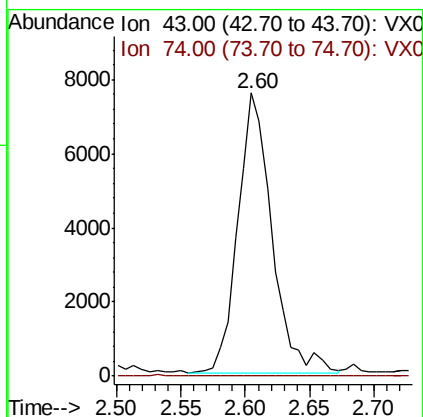
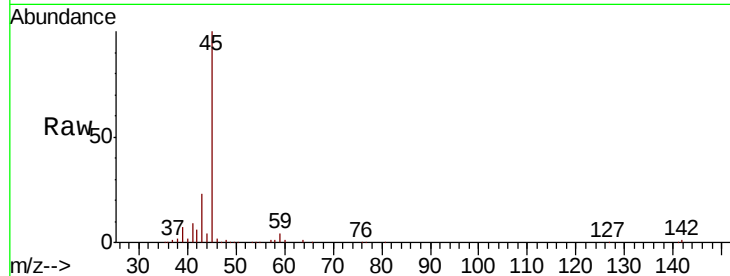




#18
Methyl Acetate
Concen: 6.166 ug/l
RT: 2.60 min Scan# 238
Delta R.T. -0.17 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

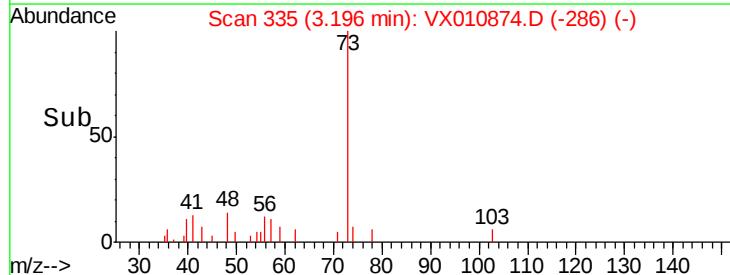
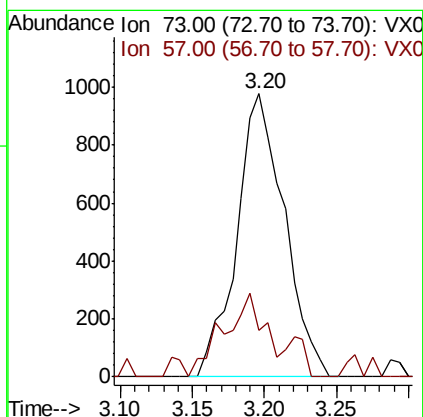
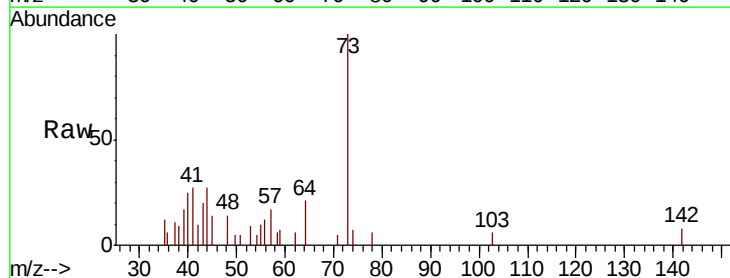
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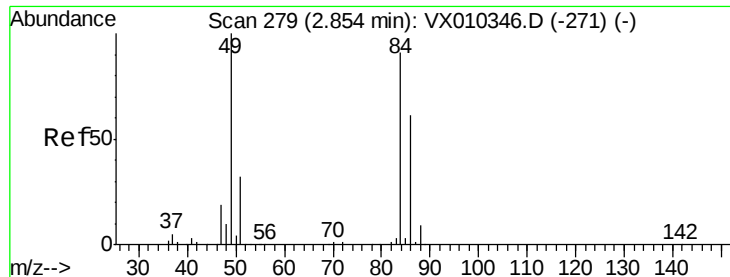
Tot Ion: 43 Resp: 13940
Ion Ratio Lower Upper
43 100
74 0.0 21.3 31.9#



#19
Methyl tert-butyl Ether
Concen: 0.340 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

Tgt Ion: 73 Resp: 2237
Ion Ratio Lower Upper
73 100
57 16.6 16.4 24.6

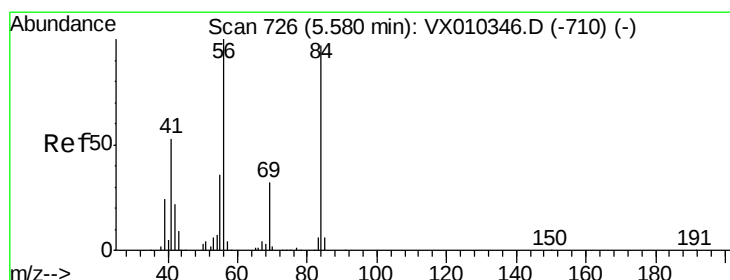
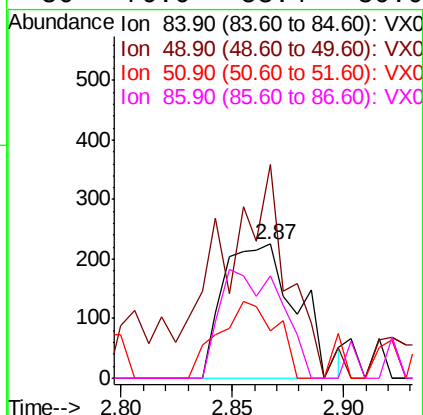
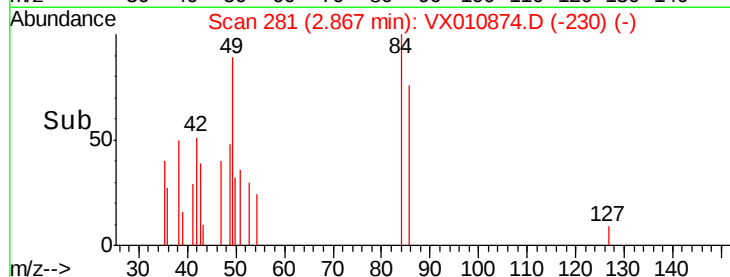
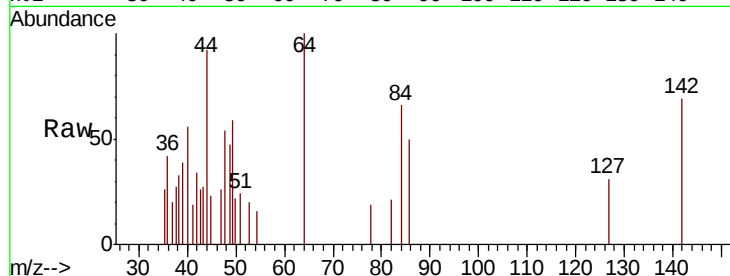




#20
Methylene Chloride
Concen: 0.221 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

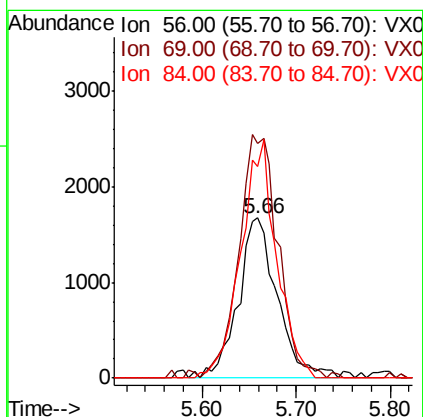
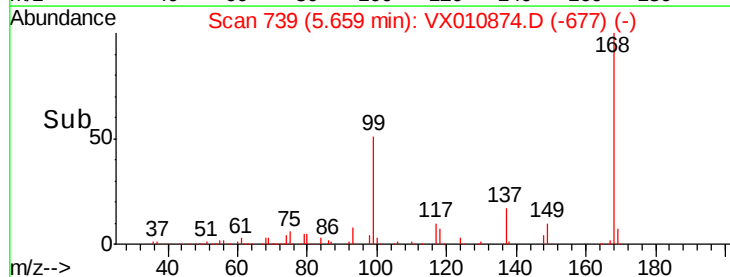
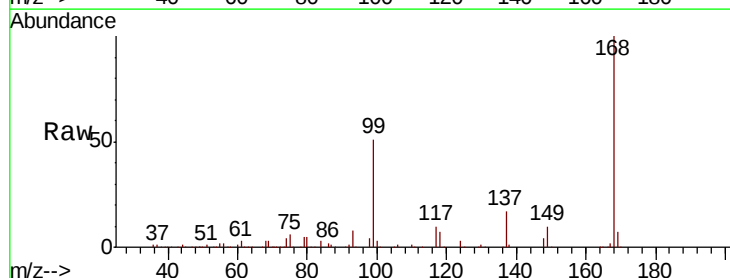
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390711762-TRIP-BLANK

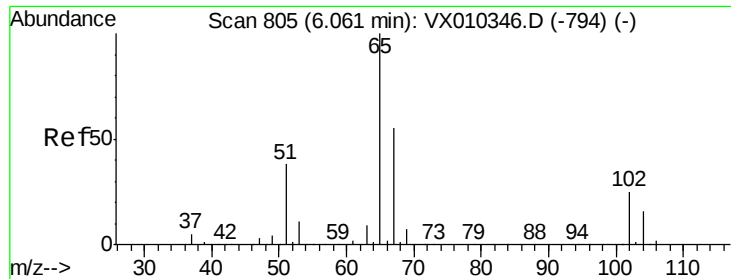
Tot Ion: 84 Resp: 516
Ion Ratio Lower Upper
84 100
49 136.9 87.5 131.3#
51 35.6 27.7 41.5
86 76.0 53.4 80.0



#31
Cyclohexane
Concen: 1.491 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

Tgt Ion: 56 Resp: 4873
Ion Ratio Lower Upper
56 100
69 143.8 25.9 38.9#
84 132.5 78.0 117.0#





#33

1,2-Dichloroethane-d4

Concen: 55.916 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

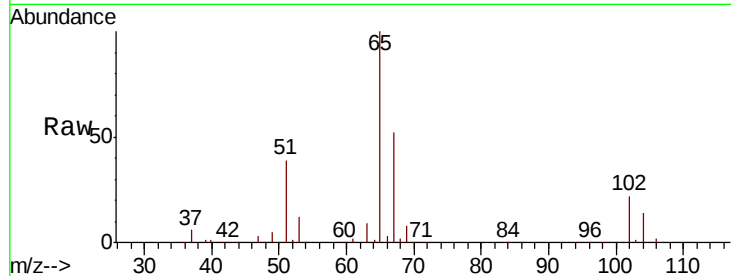
390711762-TRIP-BLANK

Tot Ion: 65 Resp: 126555

Ion Ratio Lower Upper

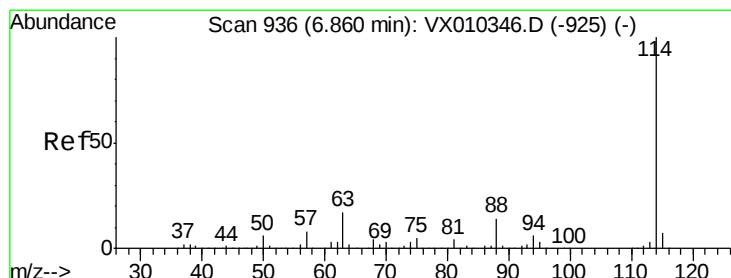
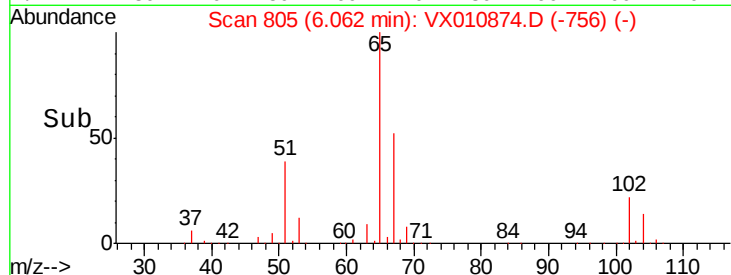
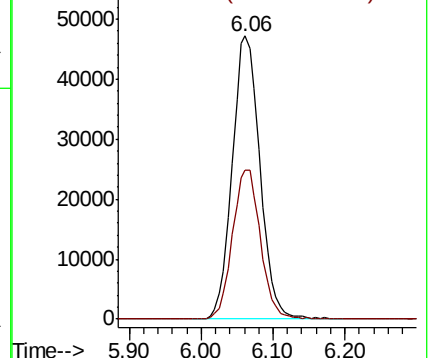
65 100

67 53.0 0.0 110.2



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

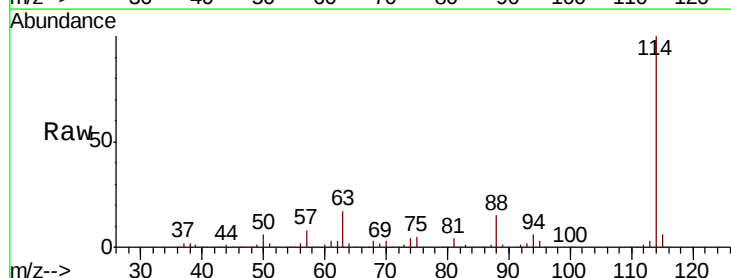
Tgt Ion: 114 Resp: 375913

Ion Ratio Lower Upper

114 100

63 17.1 0.0 33.8

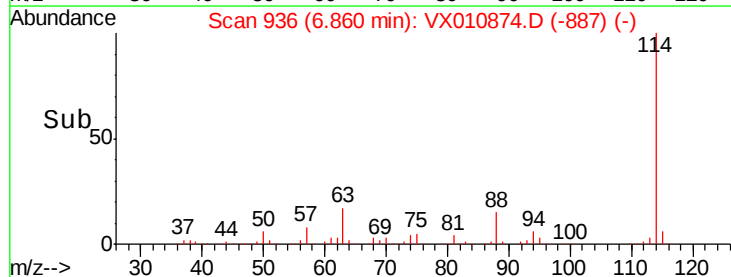
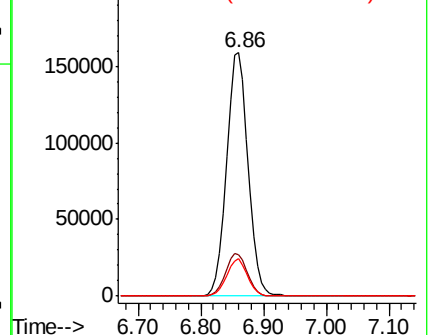
88 15.3 0.0 27.6

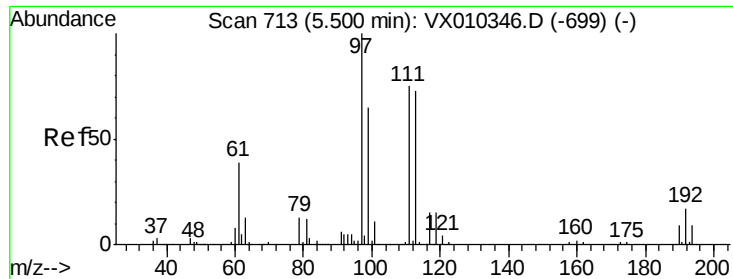


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.133 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

390711762-TRIP-BLANK

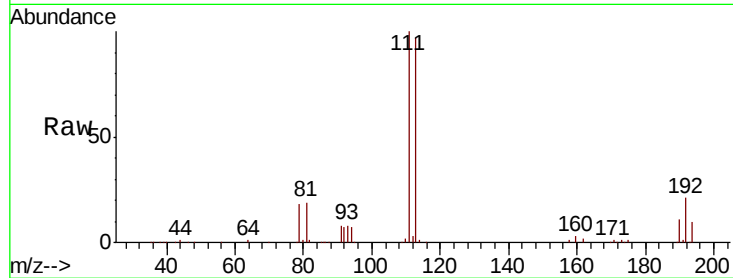
Tot Ion:113 Resp: 119904

Ion Ratio Lower Upper

113 100

111 101.5 81.2 121.8

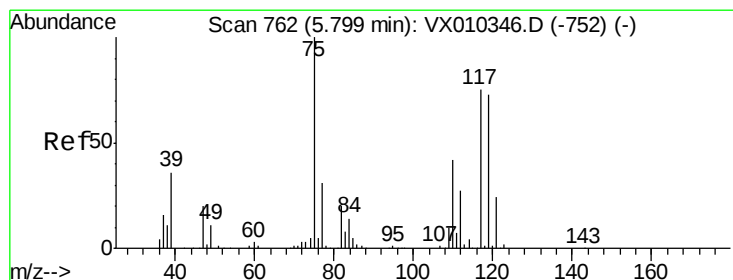
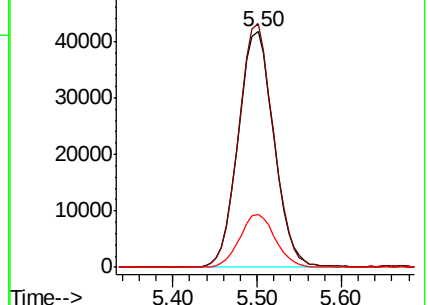
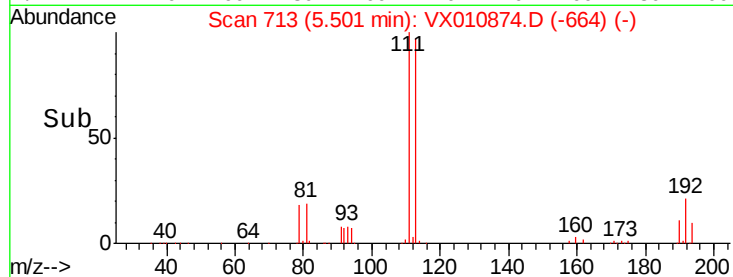
192 22.3 18.6 27.8



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: 5.240 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

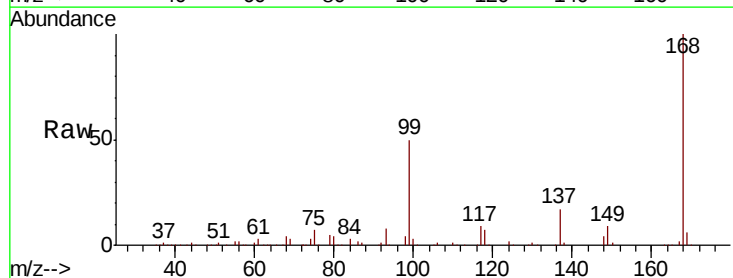
Tgt Ion: 75 Resp: 15653

Ion Ratio Lower Upper

75 100

110 10.7 20.8 62.2#

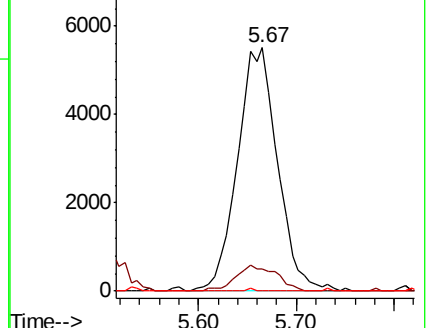
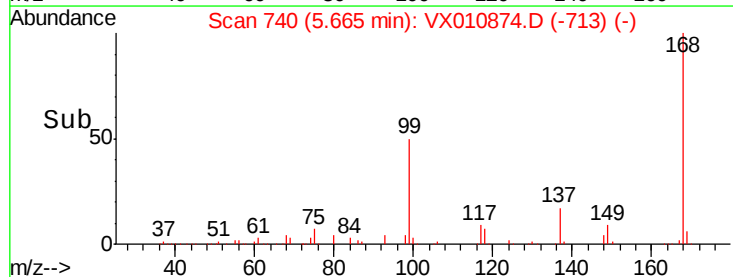
77 0.1 25.4 38.0#

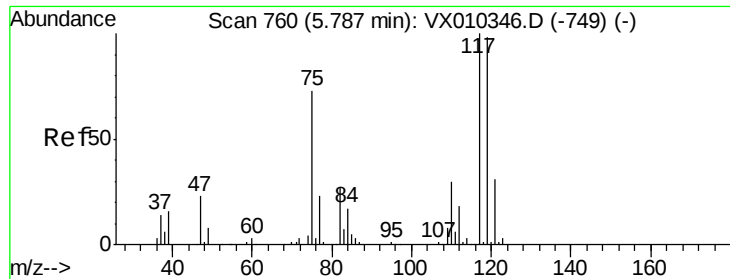


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.652 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

390711762-TRIP-BLANK

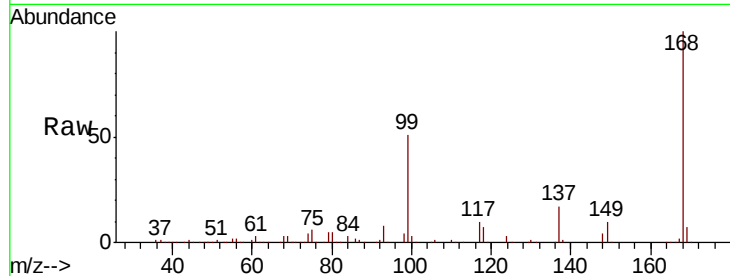
Tot Ion:117 Resp: 21516

Ion Ratio Lower Upper

117 100

119 4.8 78.2 117.4#

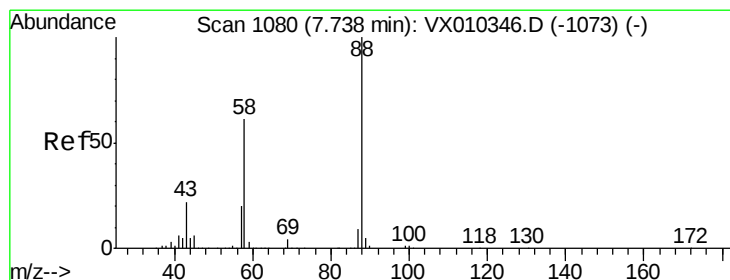
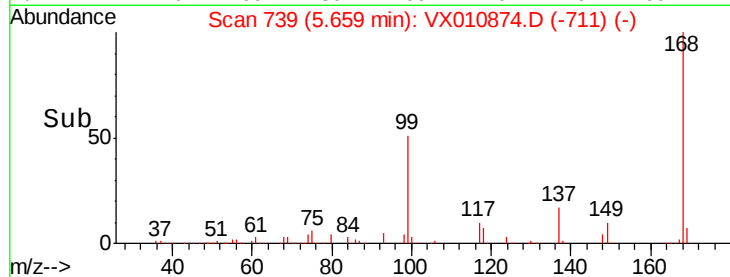
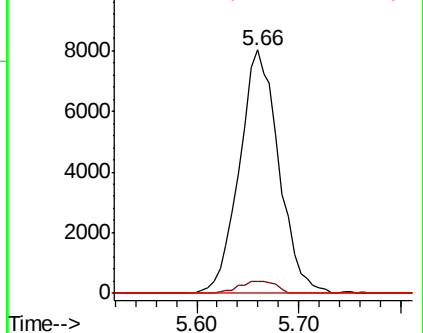
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.455 ug/l

RT: 7.79 min Scan# 1088

Delta R.T. 0.05 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

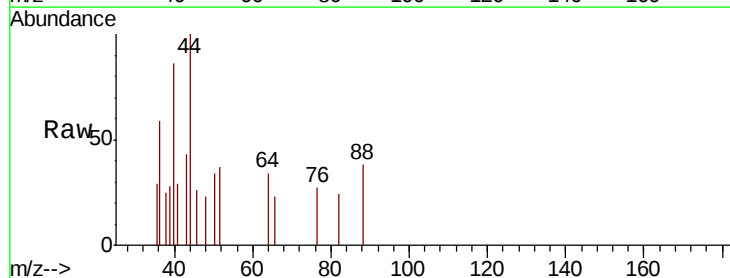
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 461.3 20.2 30.2#

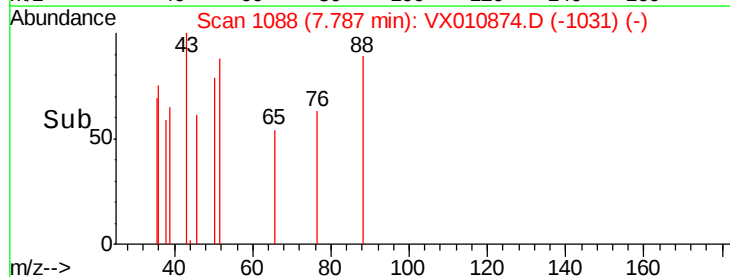
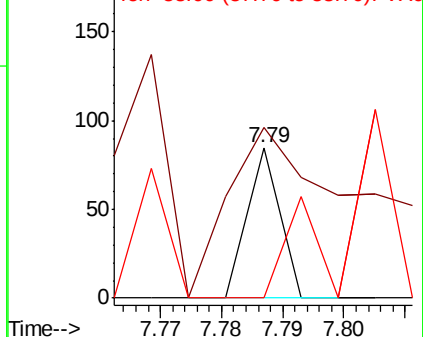
58 193.5 49.5 74.3#

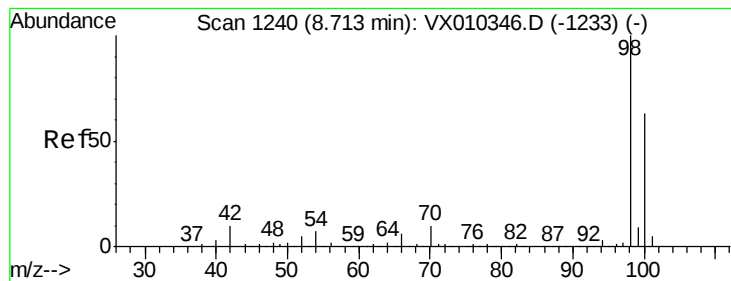


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.275 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

Instrument :

MSVOA_X

ClientSampleId :

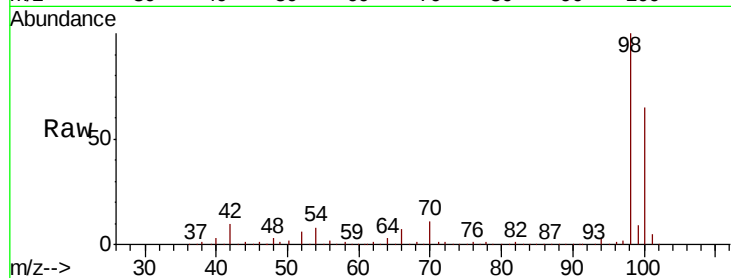
390711762-TRIP-BLANK

Tot Ion: 98 Resp: 451177

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

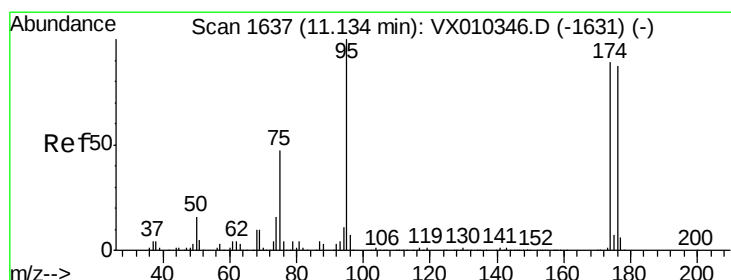
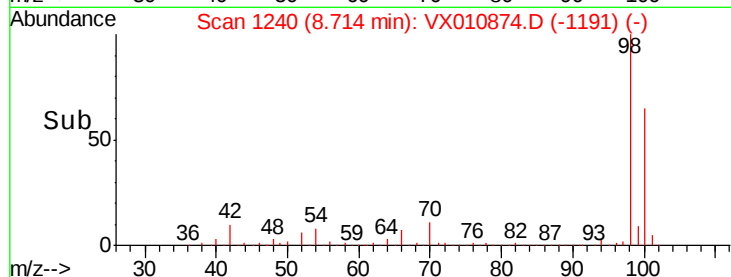
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 50.674 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010874.D

Acq: 15 Jul 2019 11:12

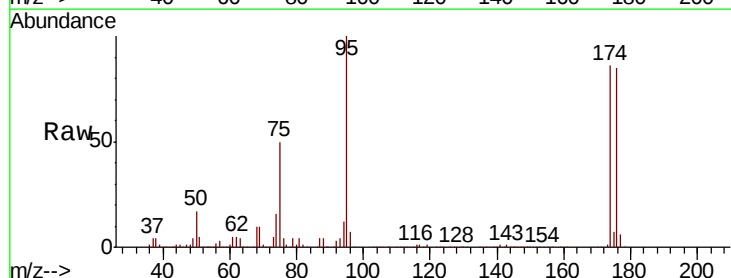
Tgt Ion: 95 Resp: 160981

Ion Ratio Lower Upper

95 100

174 91.4 0.0 187.6

176 89.2 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

150000

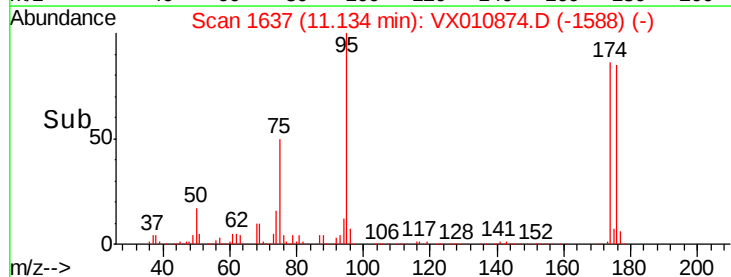
100000

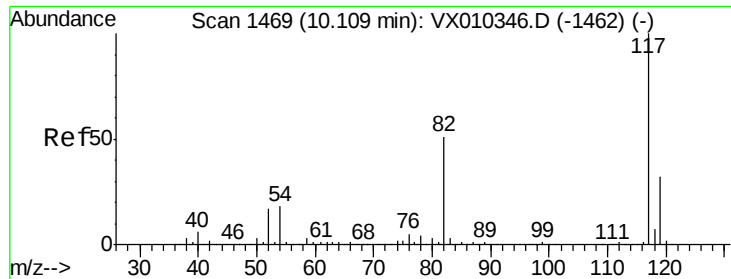
50000

0

11.05 11.10 11.15 11.20

Time-->

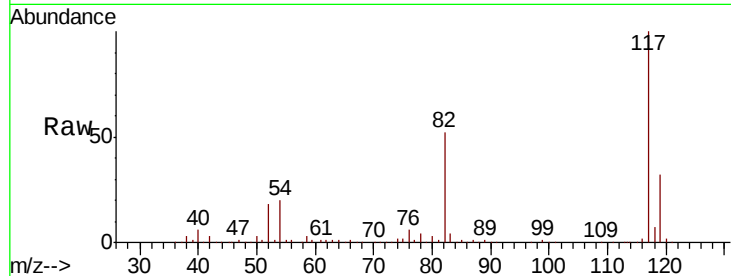




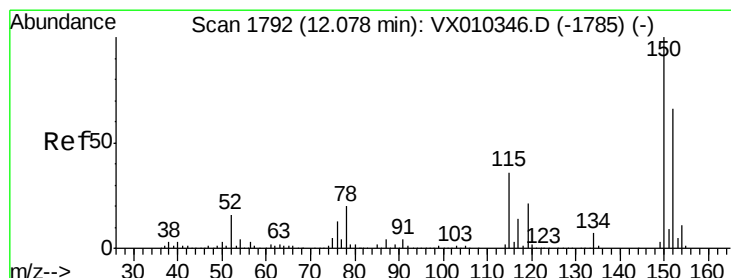
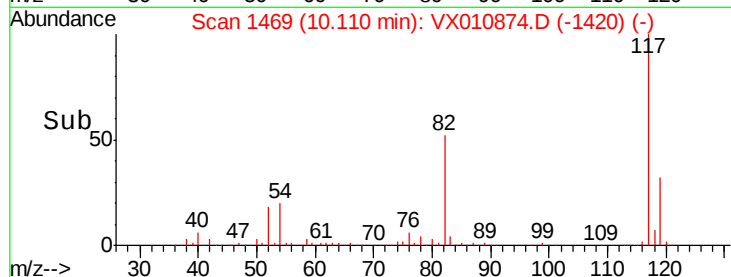
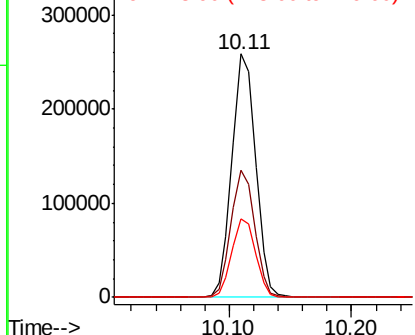
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

Instrument :
MSVOA_X
ClientSampleId :
390711762-TRIP-BLANK

Tot Ion:117 Resp: 347828
Ion Ratio Lower Upper
117 100
82 52.3 41.2 61.8
119 32.2 25.5 38.3

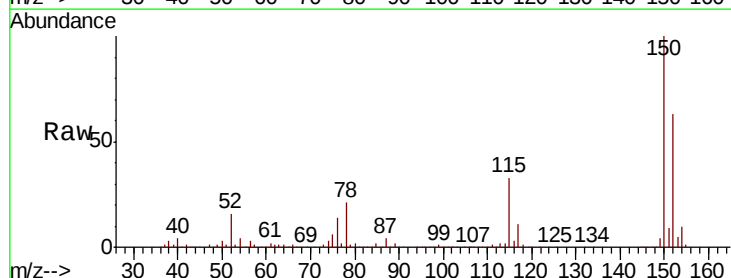


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

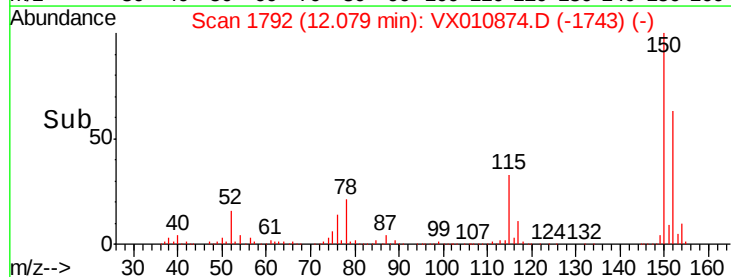
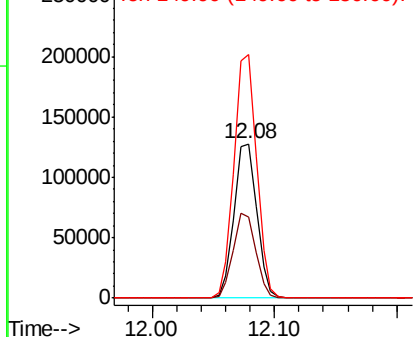


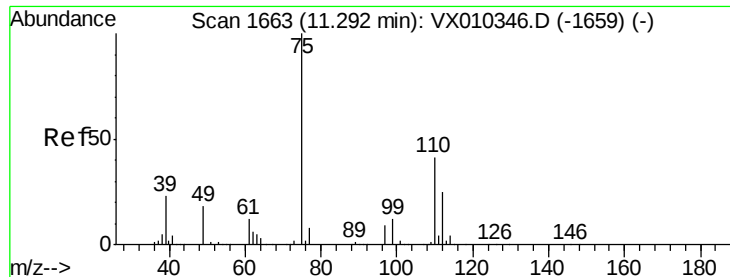
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010874.D
Acq: 15 Jul 2019 11:12

Tgt Ion:152 Resp: 163657
Ion Ratio Lower Upper
152 100
115 54.7 38.6 115.7
150 157.2 0.0 347.4



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

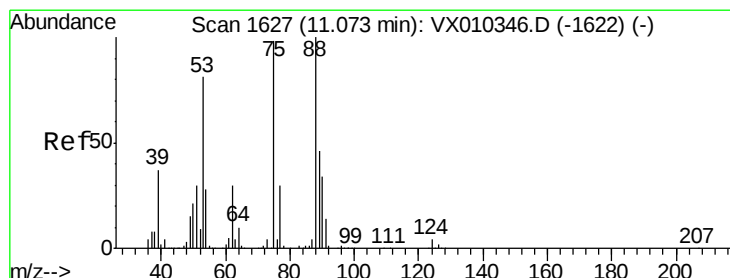
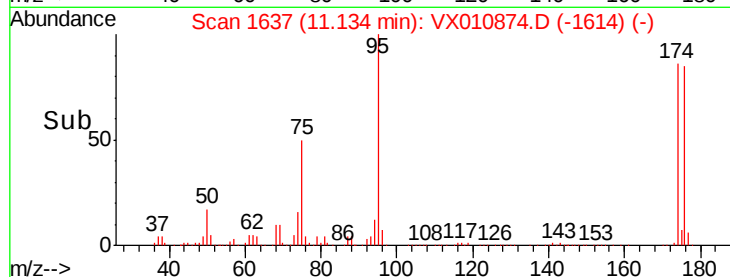
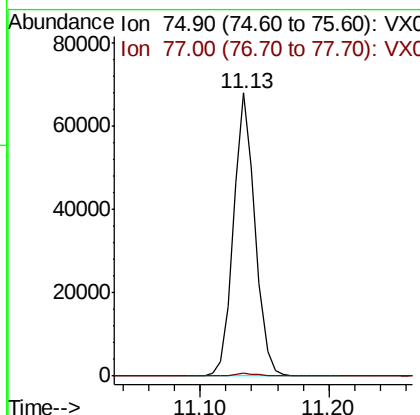
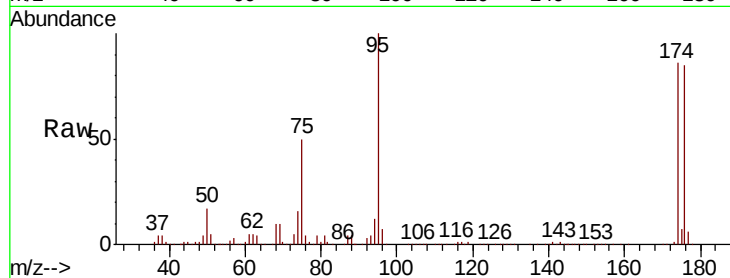




#76
 1,2,3-Trichloropropane
 Concen: 26.511 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010874.D
 Acq: 15 Jul 2019 11:12

Instrument :
 MSVOA_X
 ClientSampleId :
 390711762-TRIP-BLANK

Tot Ion: 75 Resp: 79062
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.847 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010874.D
 Acq: 15 Jul 2019 11:12

Tgt Ion: 75 Resp: 79062
 Ion Ratio Lower Upper
 75 100
 53 0.1 66.1 99.1#
 89 0.1 37.8 56.6#

