

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073119\
 Data File : VX011250.D
 Acq On : 31 Jul 2019 18:03
 Operator : JC/SP
 Sample : K4026-01DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0684DL

Quant Time: Aug 01 02:32:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	232489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	329556	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	291697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139313	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	116471	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
35) Dibromofluoromethane	5.50	113	97891	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	8.71	98	383465	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
62) 4-Bromofluorobenzene	11.13	95	130647	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	

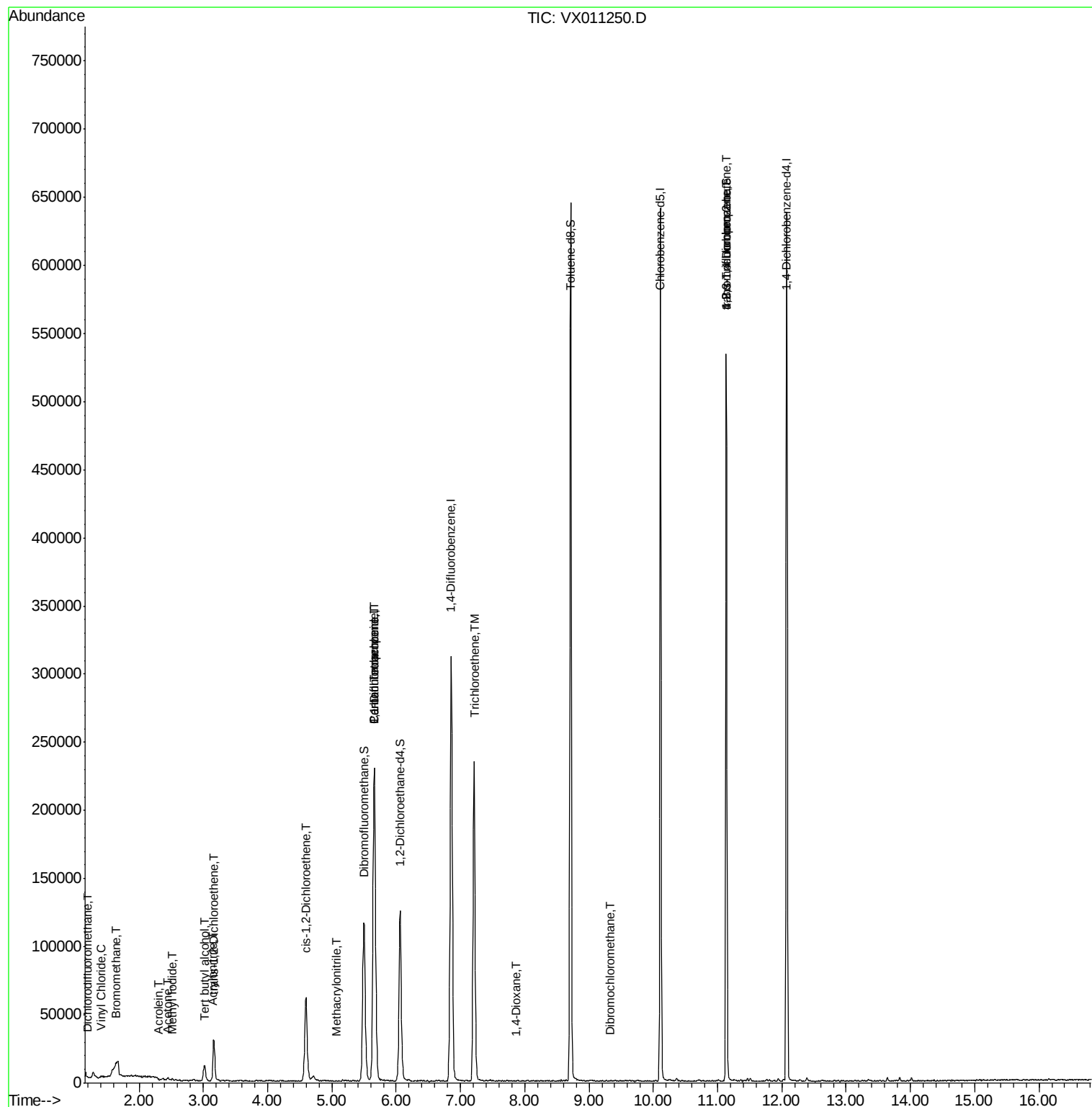
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	128	0.597	ug/l	84
4) Vinyl Chloride	1.40	62	1204	0.552	ug/l #	76
5) Bromomethane	1.64	94	857	0.697	ug/l	97
10) Methyl Iodide	2.51	142	1318	0.477	ug/l #	96
11) Tert butyl alcohol	3.01	59	7198	12.496	ug/l #	80
13) Acrolein	2.30	56	272	0.817	ug/l #	34
15) Acrylonitrile	3.15	53	275	0.236	ug/l #	65
16) Acetone	2.45	43	2590	2.319	ug/l	90
21) trans-1,2-Dichloroethene	3.16	96	13781	6.272	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	42261	16.619	ug/l	88
36) 1,1-Dichloropropene	5.65	75	15308	5.655	ug/l #	39
38) Carbon Tetrachloride	5.65	117	21597	7.656	ug/l #	17
41) Methacrylonitrile	5.07	41	317	0.201	ug/l #	47
44) Trichloroethene	7.21	130	93411	38.057	ug/l	94
49) 1,4-Dioxane	7.87	88	22	0.354	ug/l #	1
60) Dibromochloromethane	9.33	129	201	2.602	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	66308	26.376	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	66308	65.485	ug/l #	11

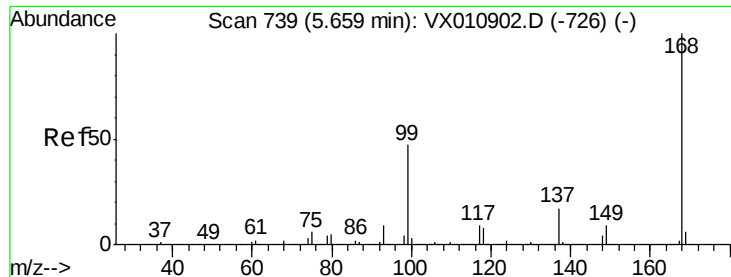
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

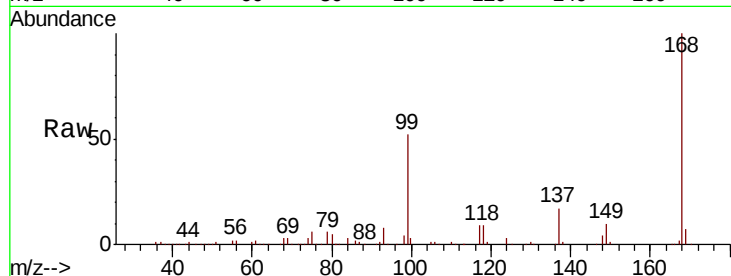
Z3-0684DL

Tot Ion:168 Resp: 232489

Ion Ratio Lower Upper

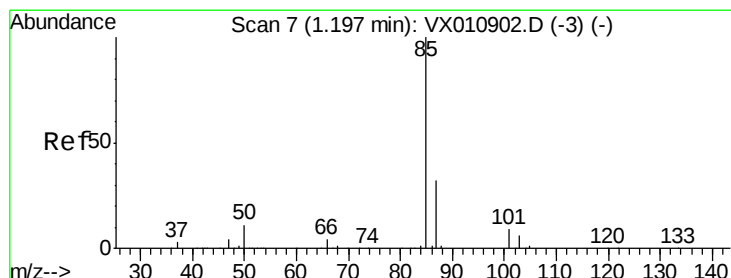
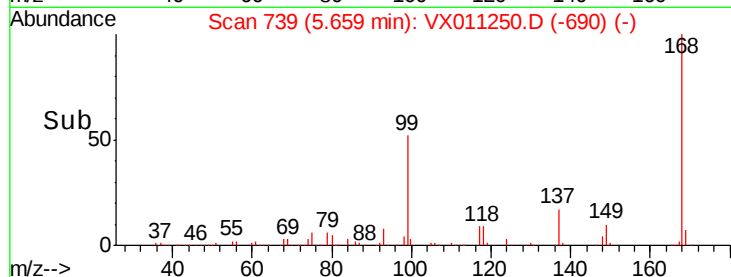
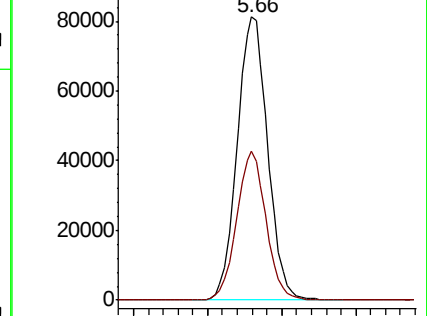
168 100

99 52.4 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.597 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011250.D

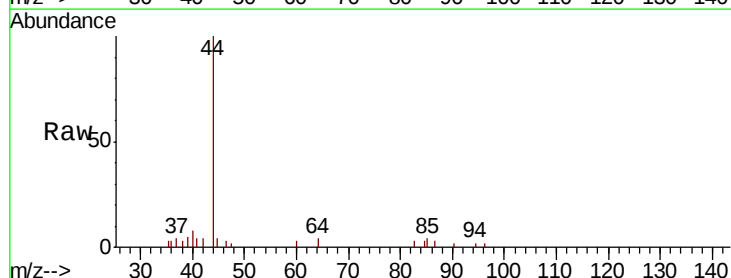
Acq: 31 Jul 2019 18:03

Tgt Ion: 85 Resp: 128

Ion Ratio Lower Upper

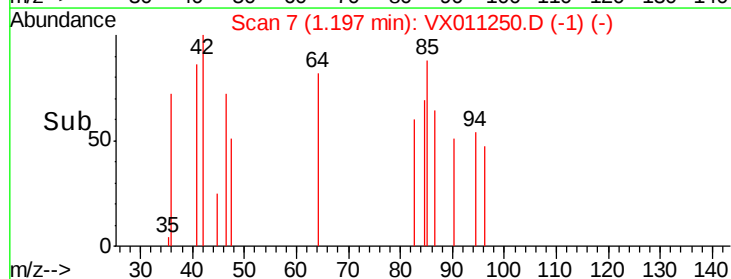
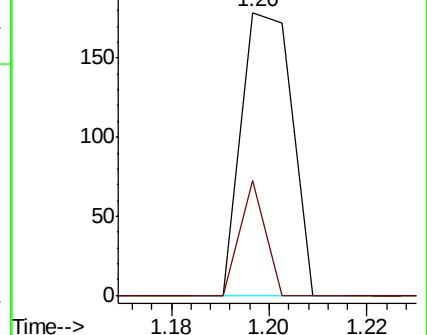
85 100

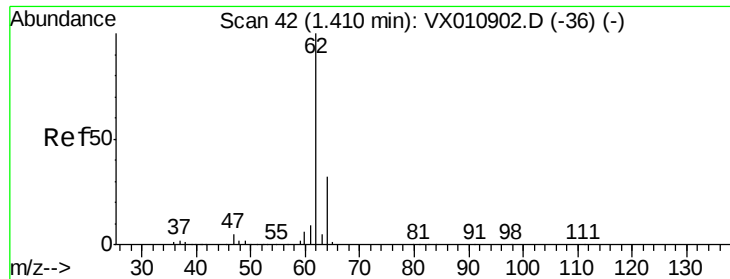
87 40.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 0.552 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampled :

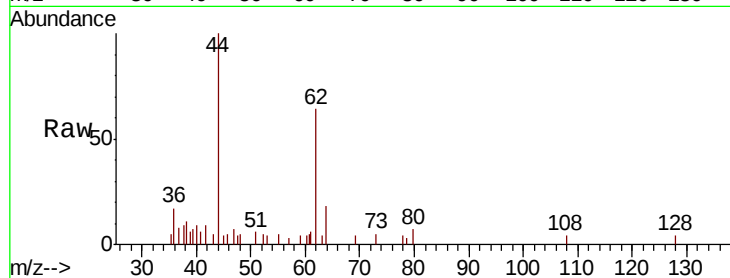
Z3-0684DL

Tot Ion: 62 Resp: 1204

Ion Ratio Lower Upper

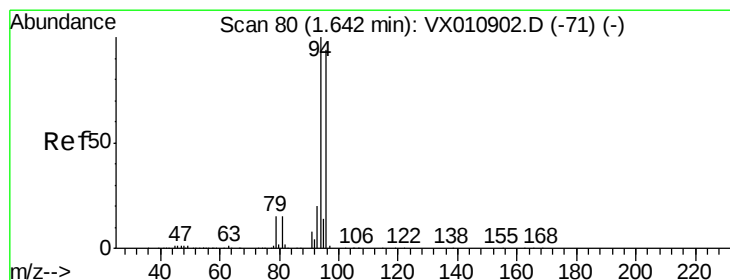
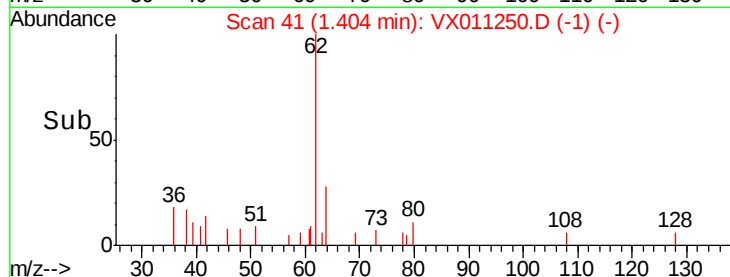
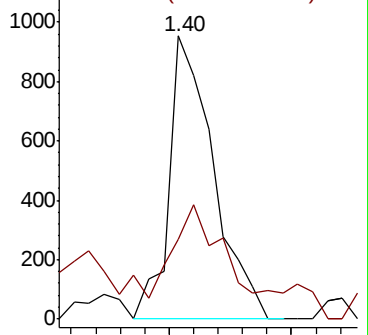
62 100

64 18.8 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.697 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX011250.D

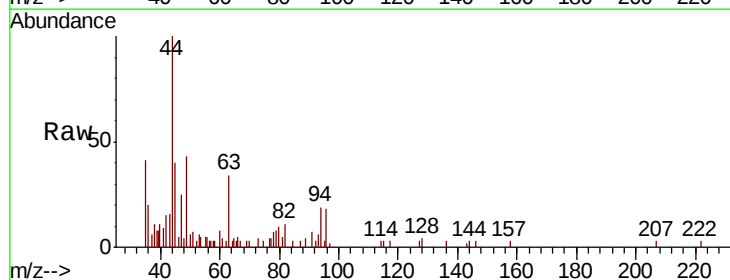
Acq: 31 Jul 2019 18:03

Tgt Ion: 94 Resp: 857

Ion Ratio Lower Upper

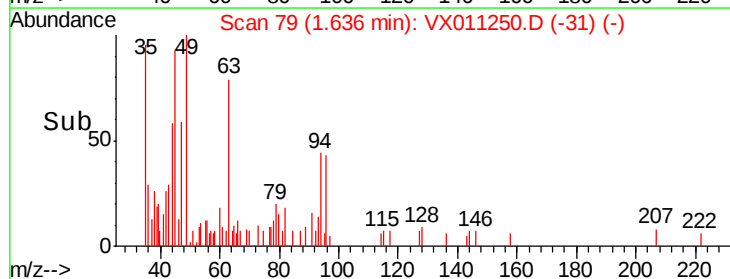
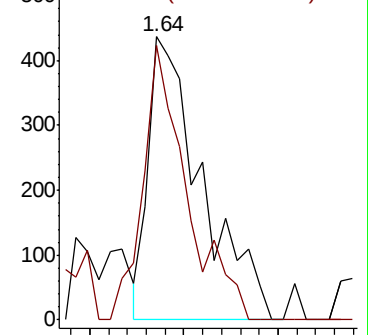
94 100

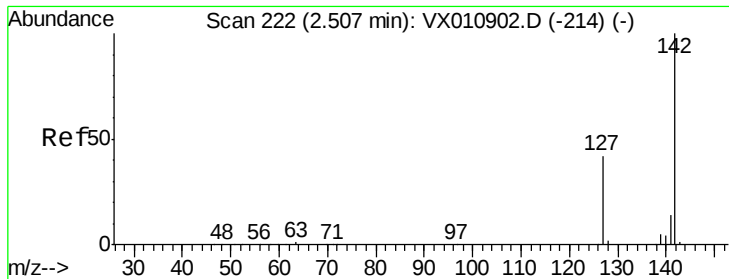
96 97.0 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

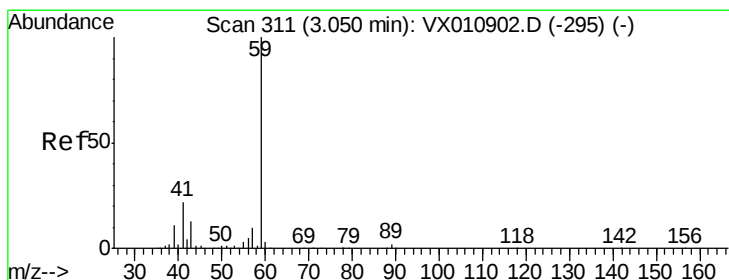
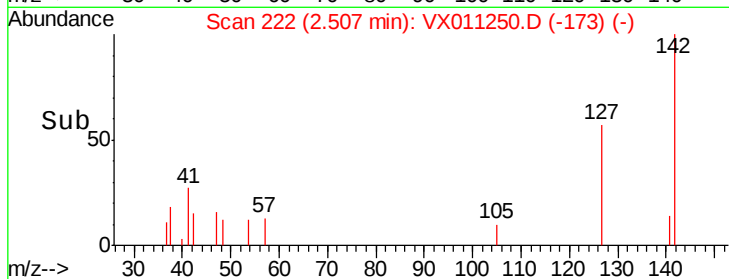
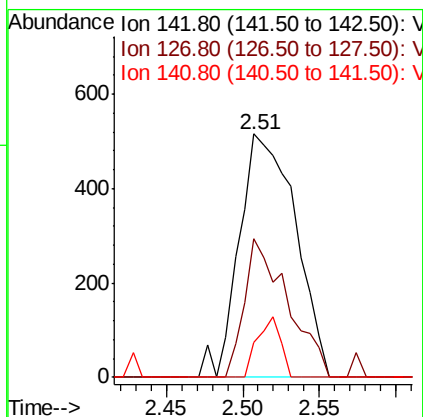
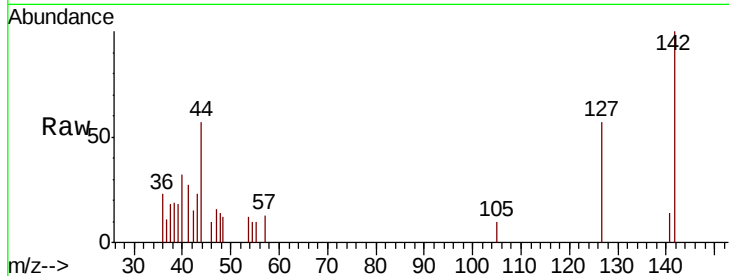




#10
Methvl Iodide
Concen: 0.477 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

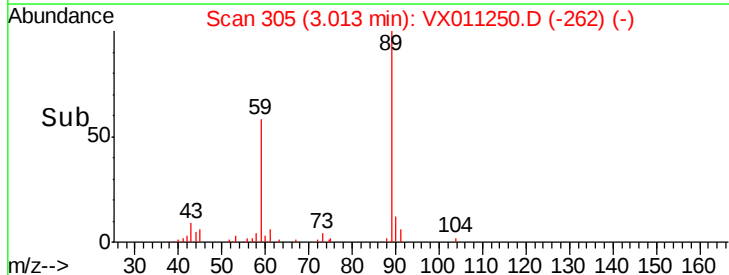
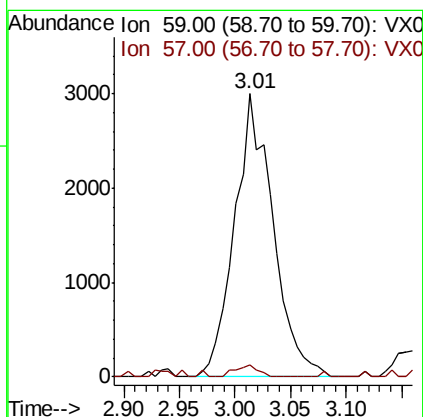
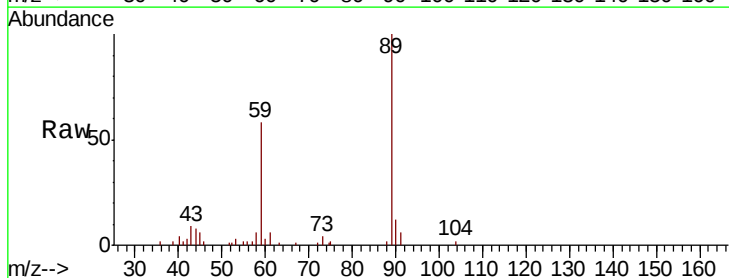
Instrument :
MSVOA_X
ClientSampleId :
Z3-0684DL

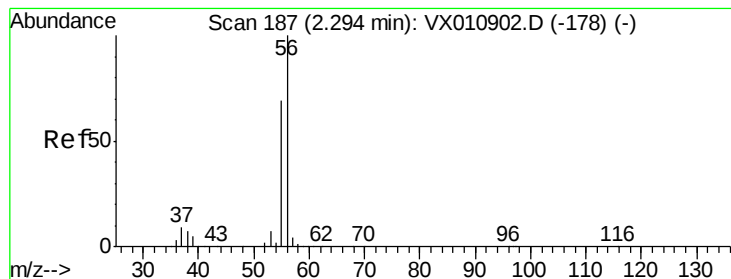
Tot Ion:142 Resp: 1318
Ion Ratio Lower Upper
142 100
127 44.0 34.2 51.4
141 10.3 11.7 17.5#



#11
Tert butyl alcohol
Concen: 12.496 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

Tgt Ion: 59 Resp: 7198
Ion Ratio Lower Upper
59 100
57 2.5 7.9 11.9#





#13

Acrolein

Concen: 0.817 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

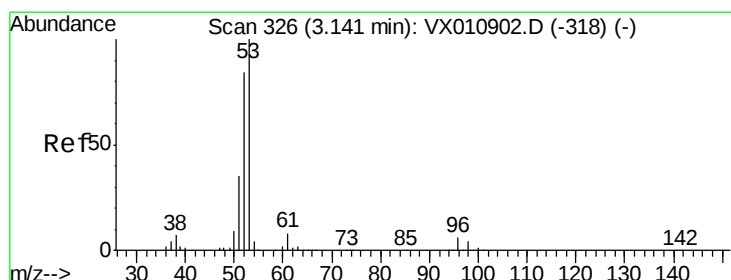
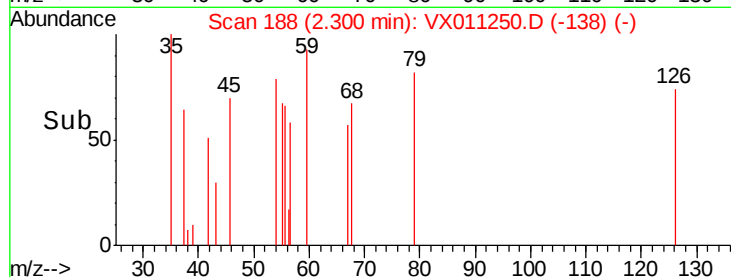
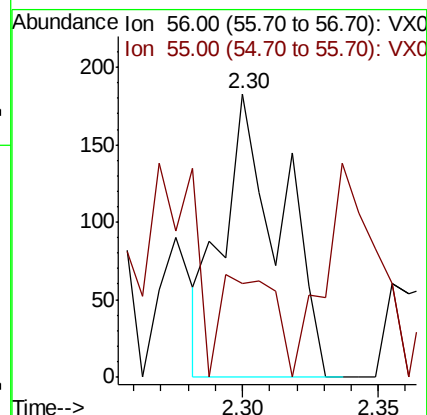
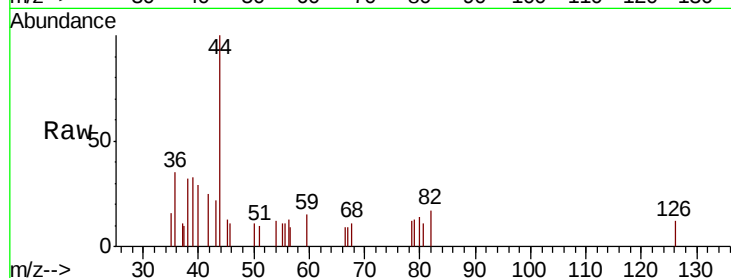
Z3-0684DL

Tot Ion: 56 Resp: 272

Ion Ratio Lower Upper

56 100

55 15.8 55.9 83.9#



#15

Acrylonitrile

Concen: 0.236 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

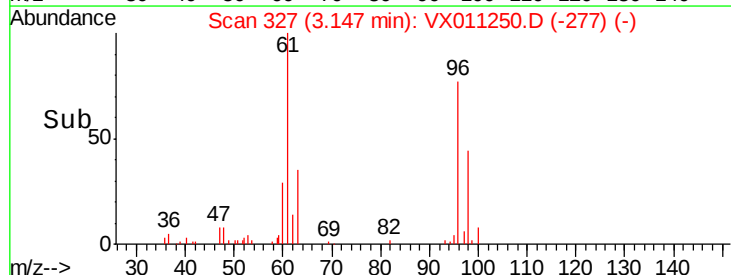
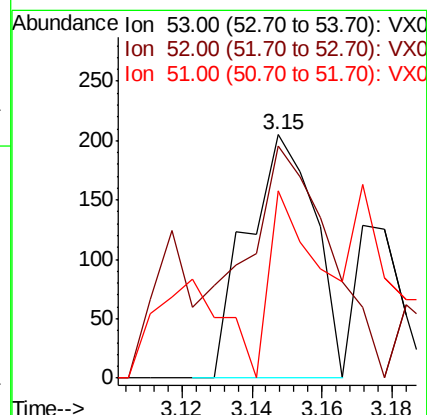
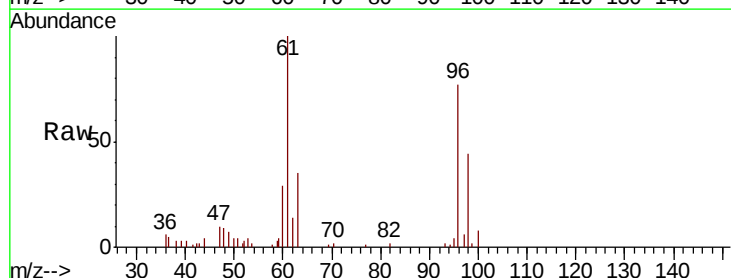
Tgt Ion: 53 Resp: 275

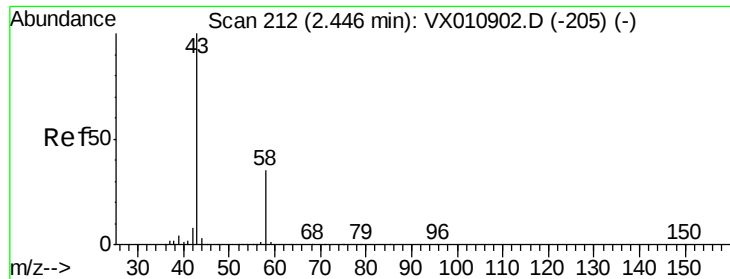
Ion Ratio Lower Upper

53 100

52 112.0 66.5 99.7#

51 59.3 28.2 42.4#





#16

Acetone

Concen: 2.319 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

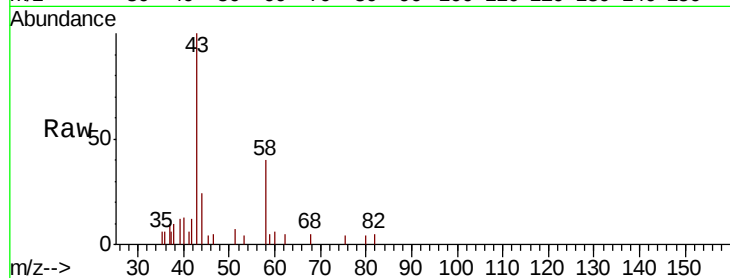
Z3-0684DL

Tot Ion: 43 Resp: 2590

Ion Ratio Lower Upper

43 100

58 40.1 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

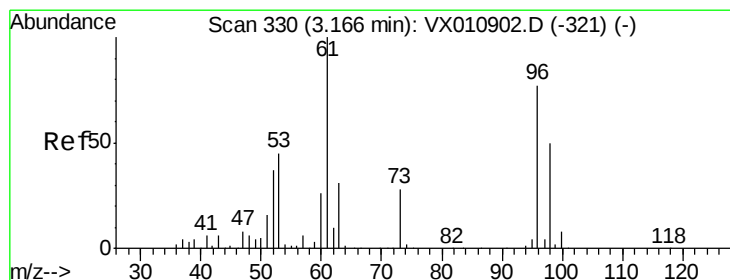
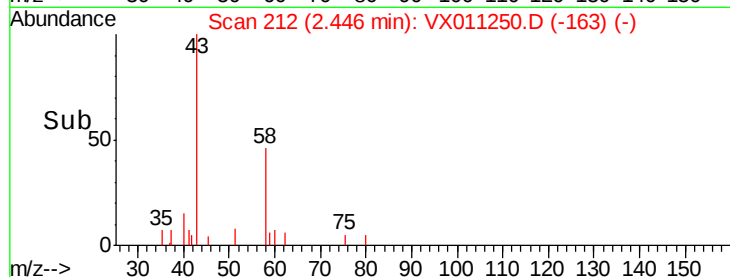
1000

500

0

2.35 2.40 2.45 2.50

Time-->



#21

trans-1,2-Dichloroethene

Concen: 6.272 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

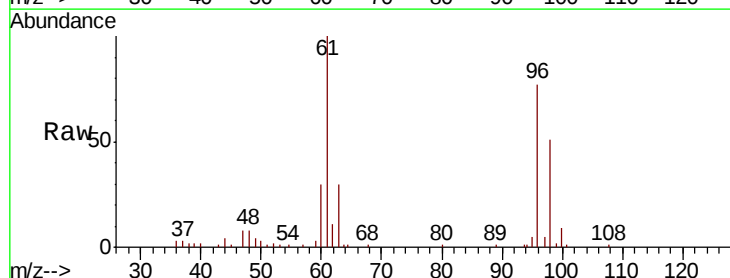
Tgt Ion: 96 Resp: 13781

Ion Ratio Lower Upper

96 100

61 129.5 104.2 156.2

98 66.1 52.2 78.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

12000

10000

8000

6000

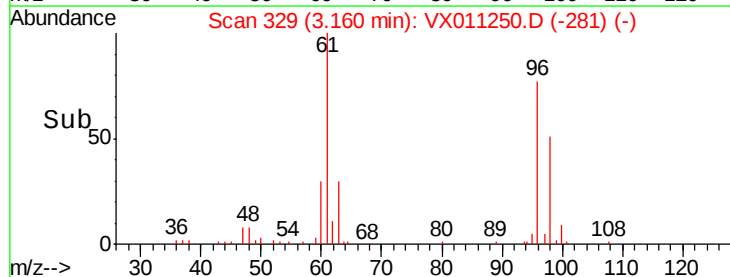
4000

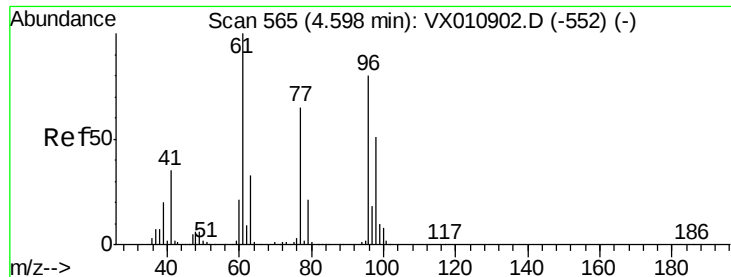
2000

0

3.05 3.10 3.15 3.20 3.25

Time-->



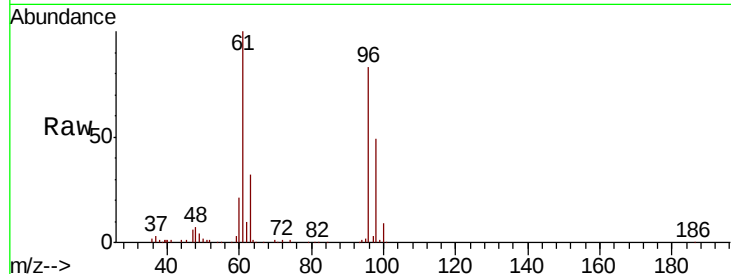


#27

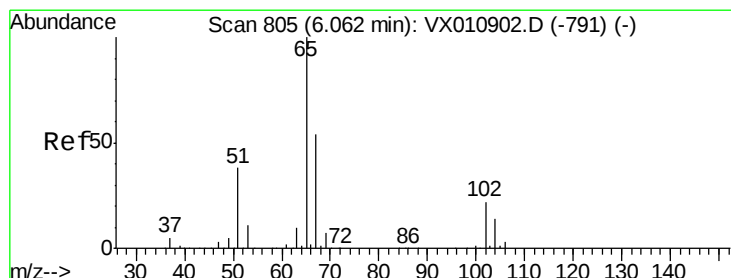
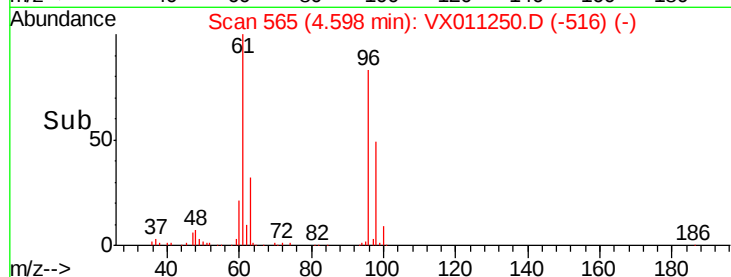
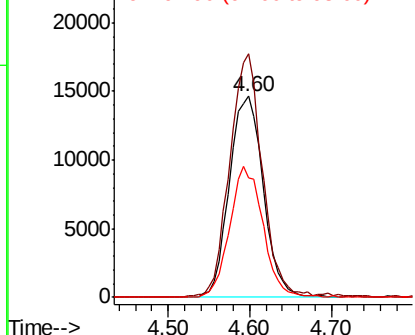
cis-1,2-Dichloroethene
 Concen: 16.619 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX011250.D
 Acq: 31 Jul 2019 18:03

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0684DL

Tot Ion: 96 Resp: 42261
 Ion Ratio Lower Upper
 96 100
 61 115.7 0.0 269.0
 98 63.2 0.0 131.4



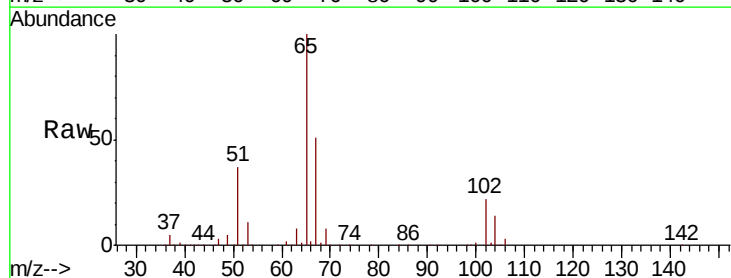
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



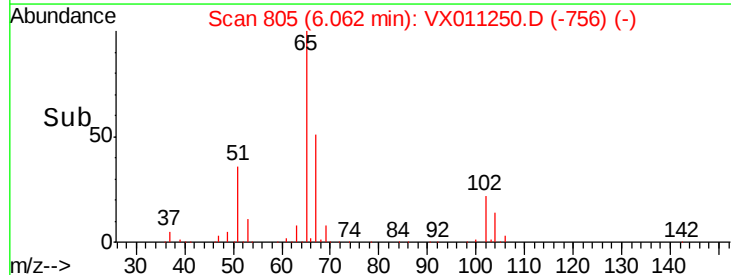
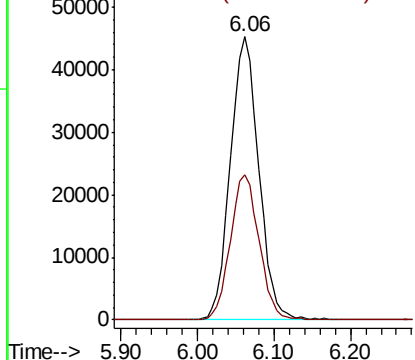
#33

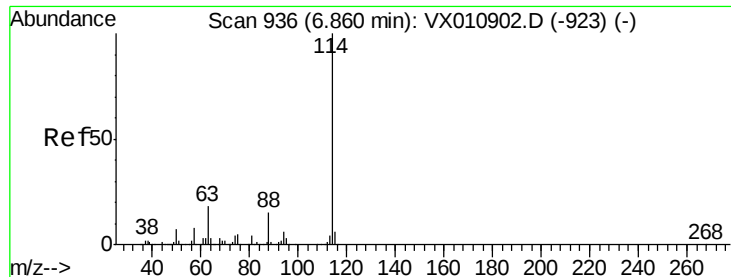
1,2-Dichloroethane-d4
 Concen: 47.091 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX011250.D
 Acq: 31 Jul 2019 18:03

Tgt Ion: 65 Resp: 116471
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 107.8



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# 935

Delta R.T. -0.01 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

Z3-0684DL

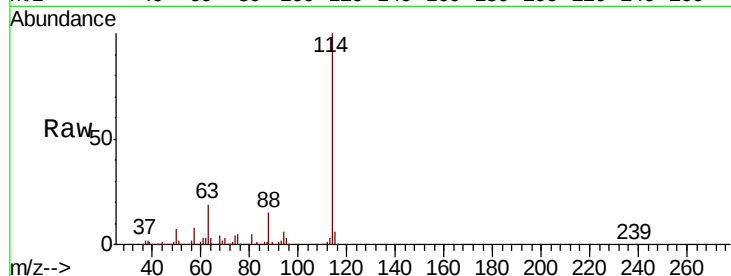
Tot Ion:114 Resp: 329556

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.6

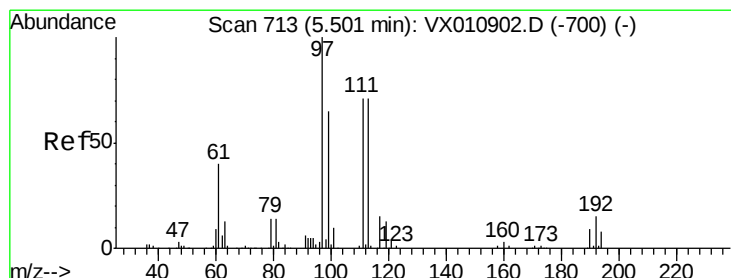
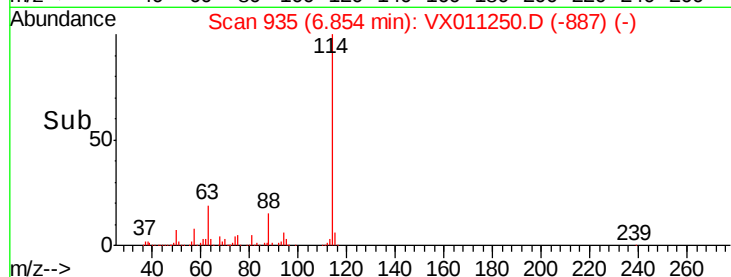
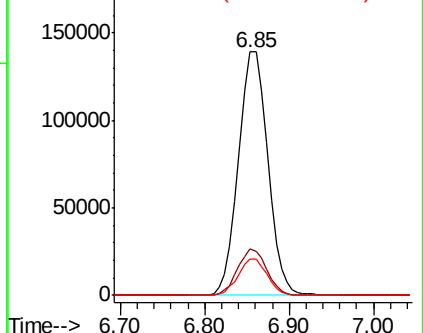
88 14.7 0.0 29.8



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: 46.798 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

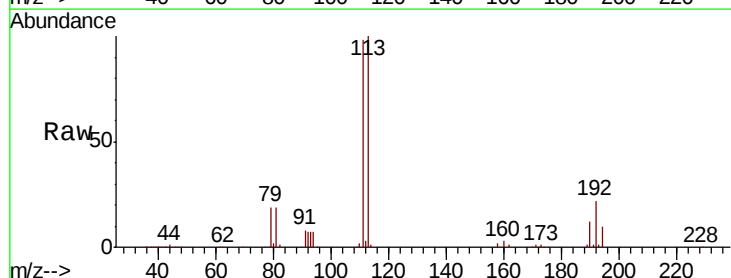
Tgt Ion:113 Resp: 97891

Ion Ratio Lower Upper

113 100

111 102.3 82.3 123.5

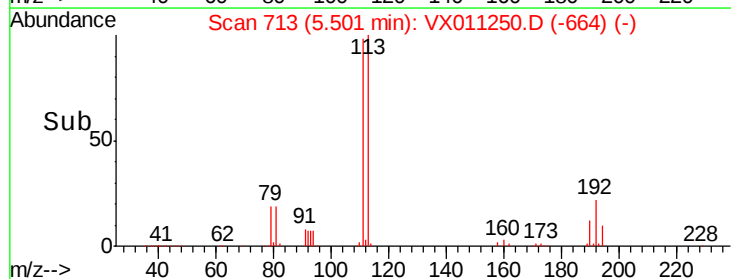
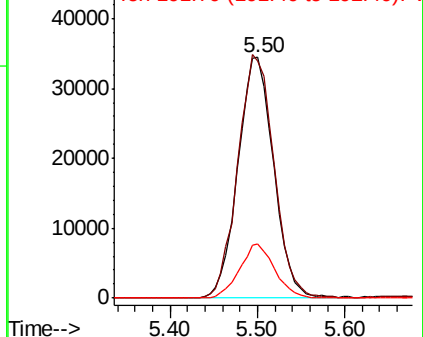
192 22.0 17.4 26.2

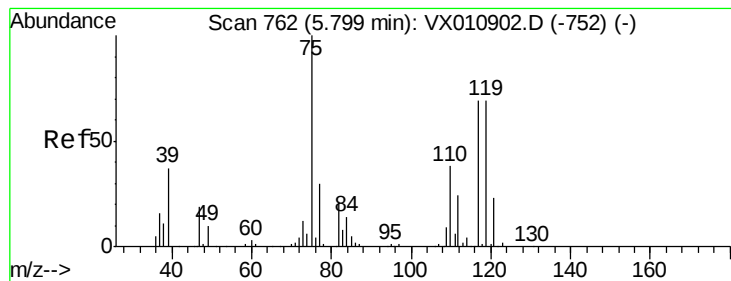


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.655 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

Z3-0684DL

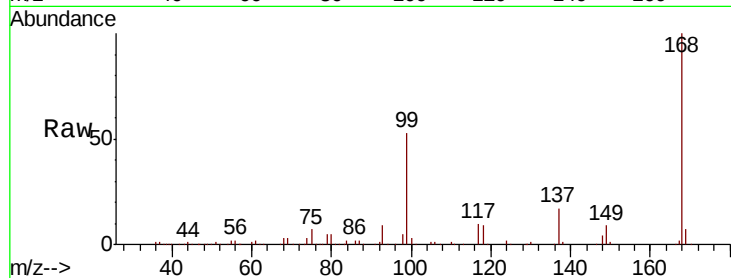
Tot Ion: 75 Resp: 15308

Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.7#

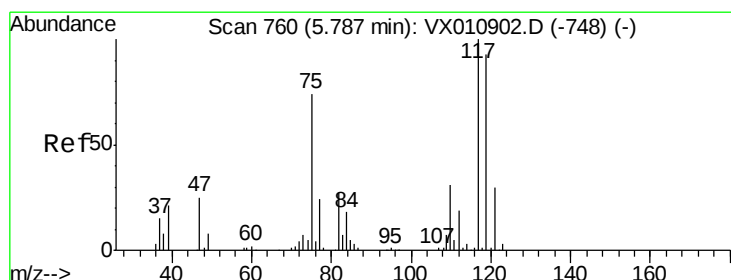
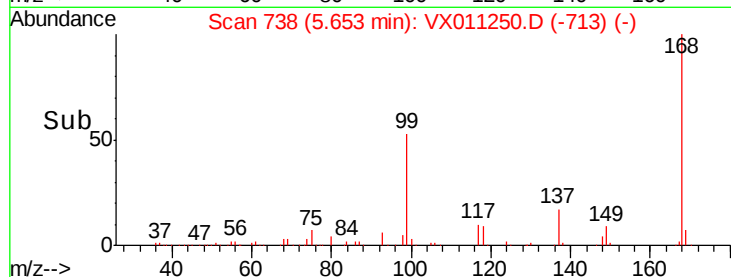
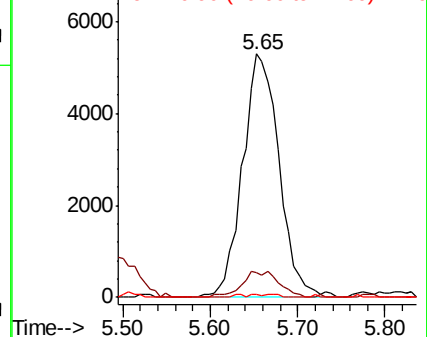
77 0.4 25.0 37.4#



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: 7.656 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

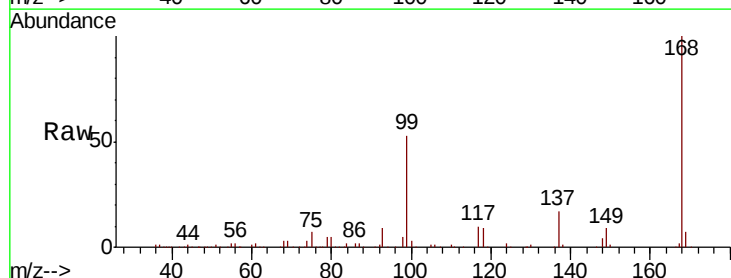
Tgt Ion: 117 Resp: 21597

Ion Ratio Lower Upper

117 100

119 4.3 74.2 111.2#

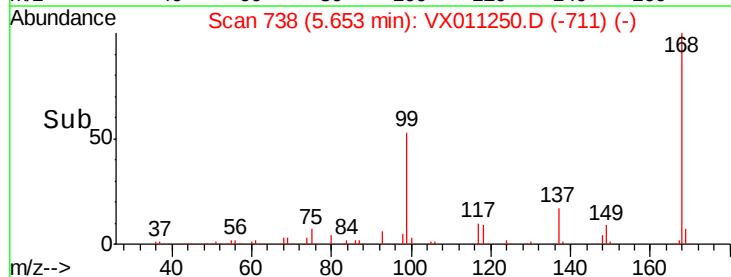
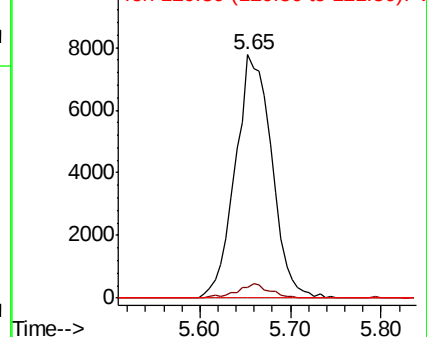
121 0.0 24.2 36.2#

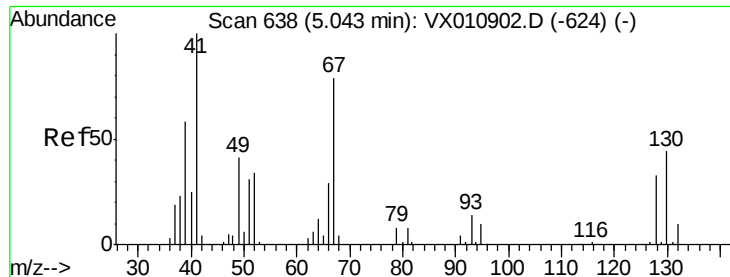


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

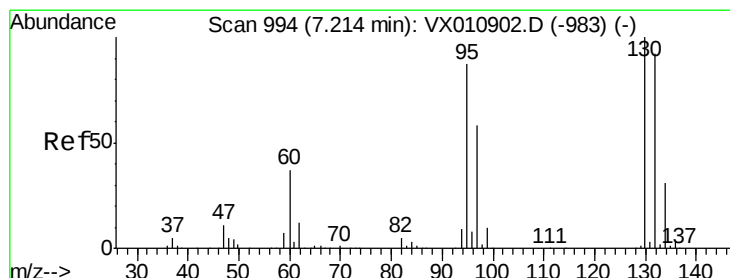
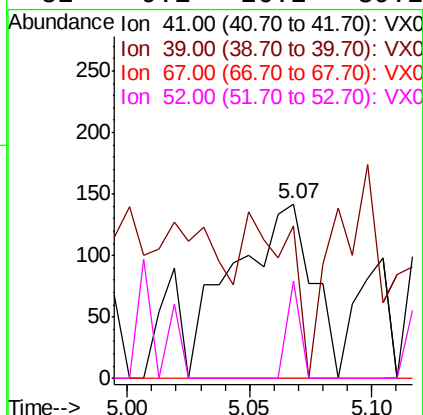
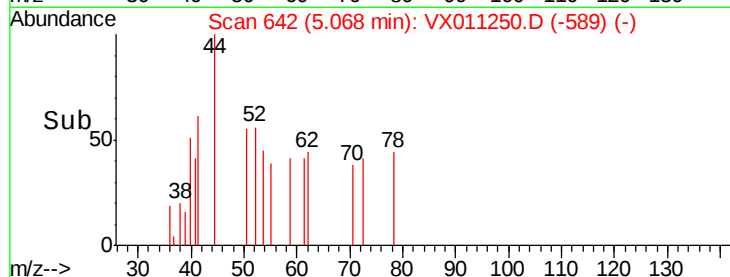
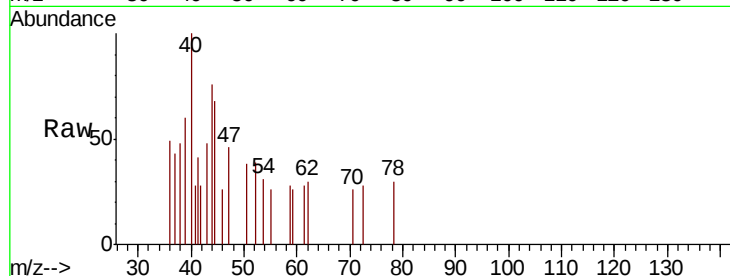




#41
Methacrylonitrile
Concen: 0.201 ug/l
RT: 5.07 min Scan# 642
Delta R.T. 0.02 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

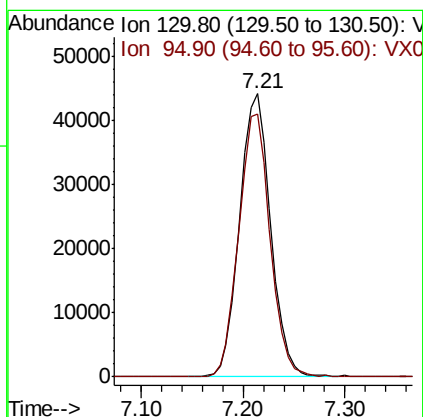
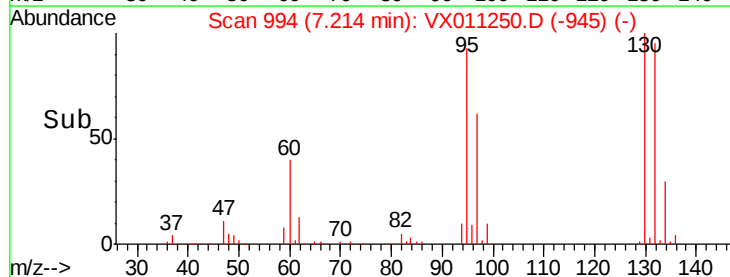
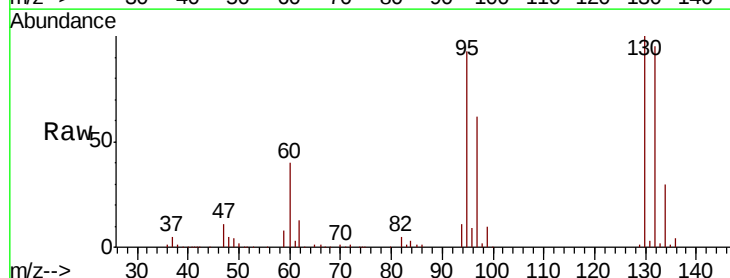
Instrument :
MSVOA_X
ClientSampleID :
Z3-0684DL

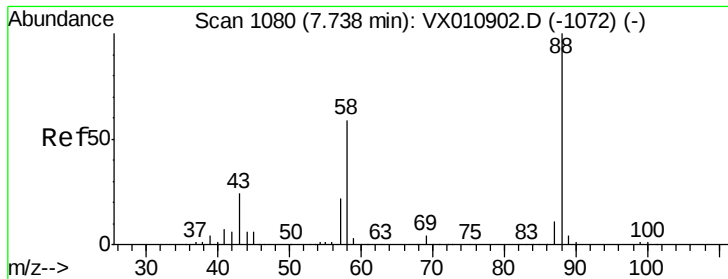
Tot Ion: 41 Resp: 317
Ion Ratio Lower Upper
41 100
39 54.3 45.4 68.2
67 0.0 65.9 98.9#
52 9.1 26.2 39.2#



#44
Trichloroethene
Concen: 38.057 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

Tgt Ion:130 Resp: 93411
Ion Ratio Lower Upper
130 100
95 92.8 0.0 174.8

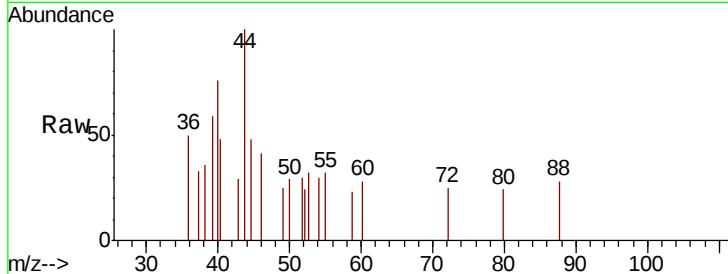




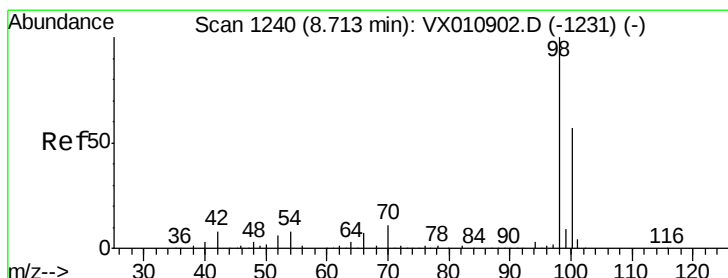
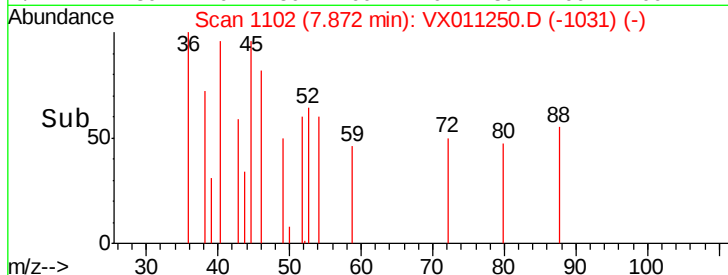
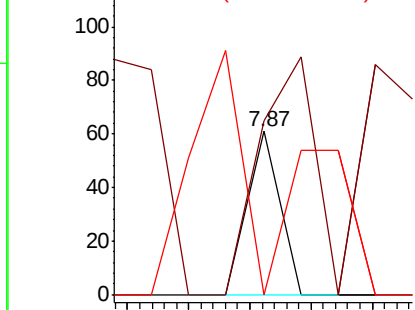
#49
1,4-Dioxane
Concen: 0.354 ug/l
RT: 7.87 min Scan# 1102
Delta R.T. 0.13 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

Instrument :
MSVOA_X
ClientSampleId :
Z3-0684DL

Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 254.5 22.9 34.3#
58 236.4 49.8 74.8#

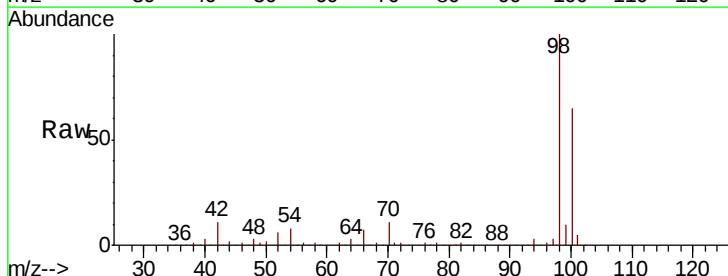


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

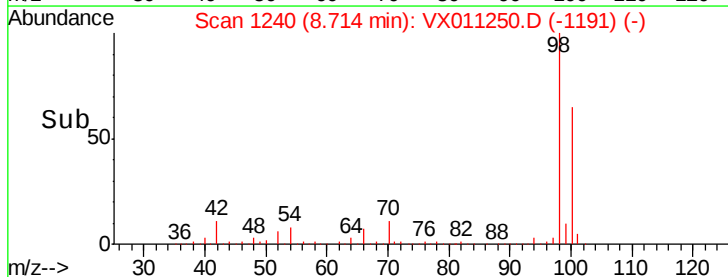
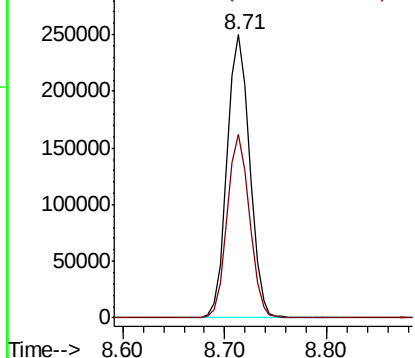


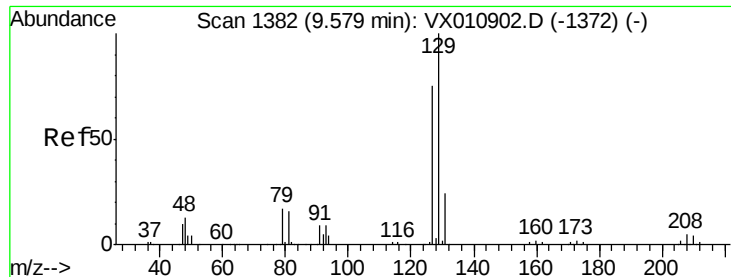
#50
Toluene-d8
Concen: 48.877 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

Tgt Ion: 98 Resp: 383465
Ion Ratio Lower Upper
98 100
100 64.0 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.602 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

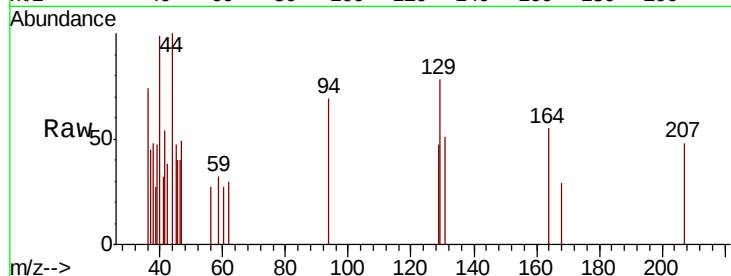
Z3-0684DL

Tot Ion:129 Resp: 201

Ion Ratio Lower Upper

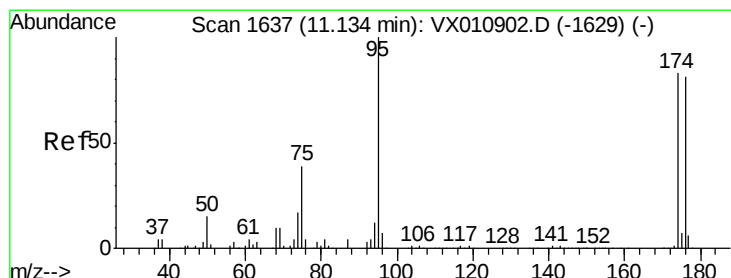
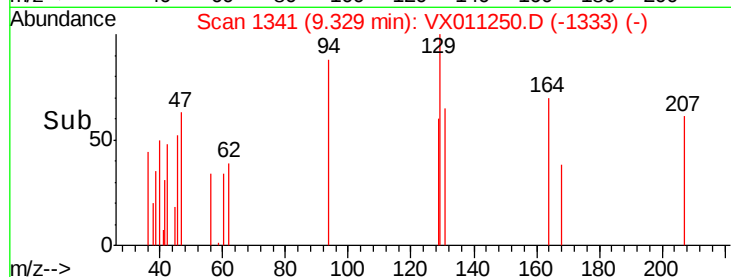
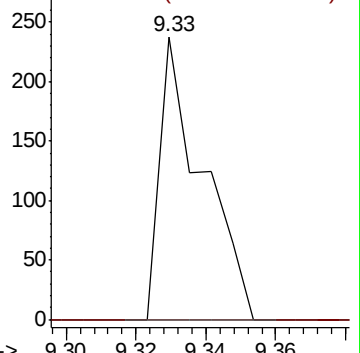
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.305 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

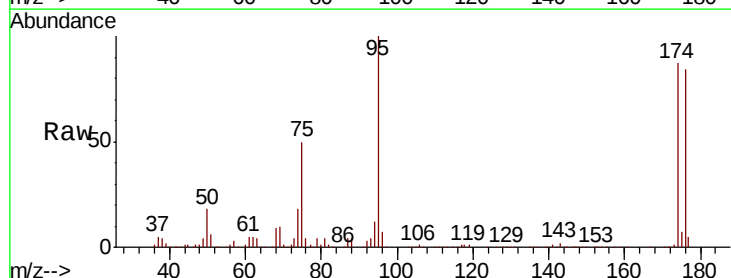
Tgt Ion: 95 Resp: 130647

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.6

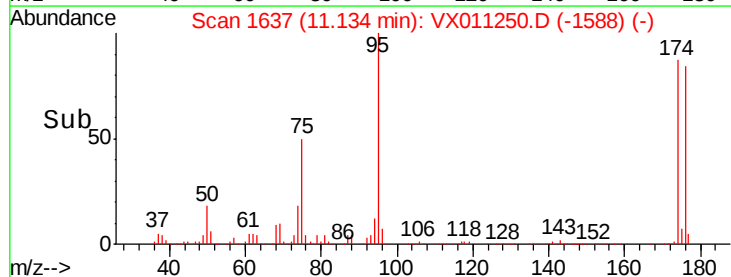
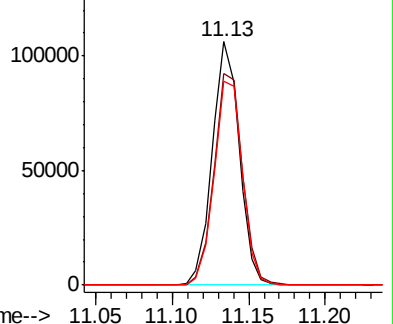
176 87.9 0.0 173.8

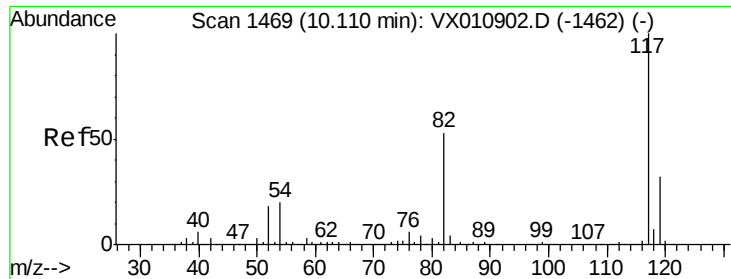


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

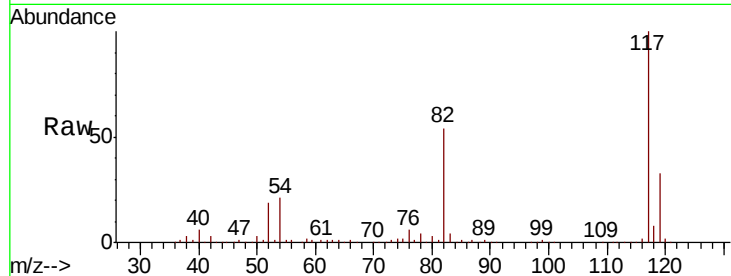




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

Instrument :
MSVOA_X
ClientSampled :
Z3-0684DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.6	63.8
119	32.9	25.9	38.9

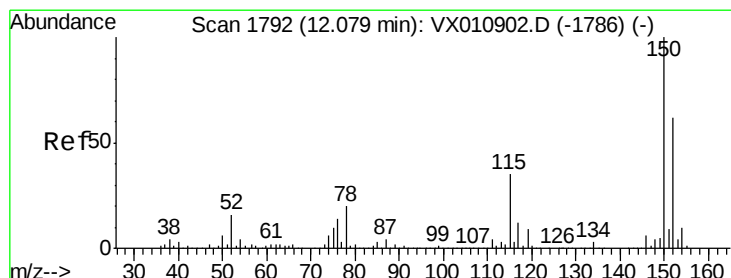
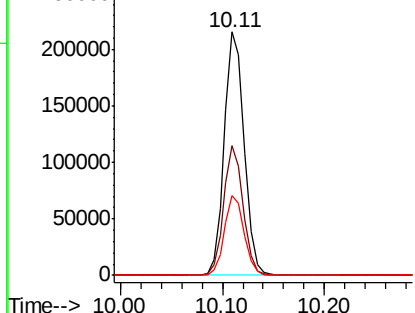
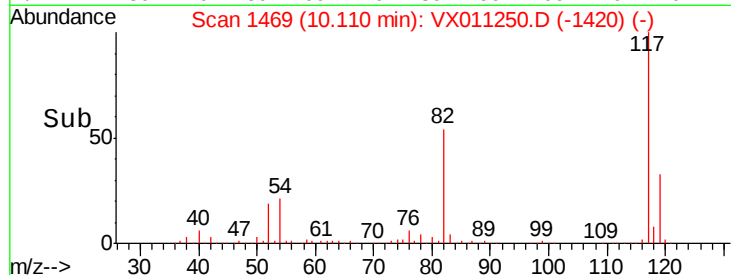


Abundance

Ion 116.90 (116.60 to 117.60): V

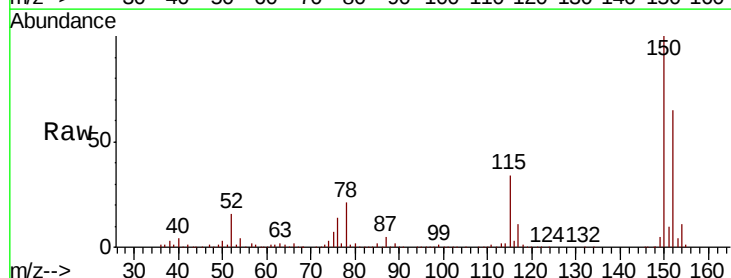
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011250.D
Acq: 31 Jul 2019 18:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	39.7	119.1
150	157.6	0.0	345.6

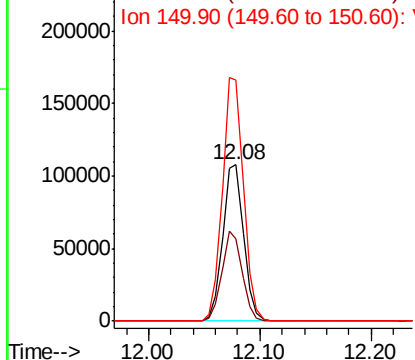
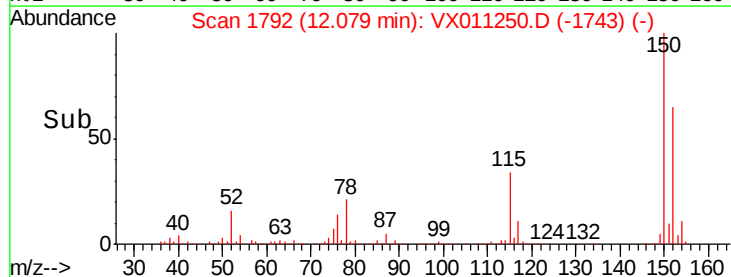


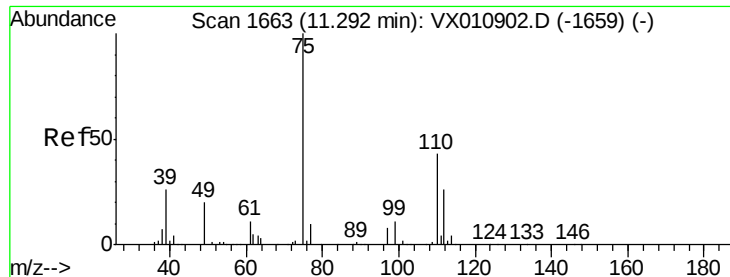
Abundance

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: 26.376 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

Instrument :

MSVOA_X

ClientSampleId :

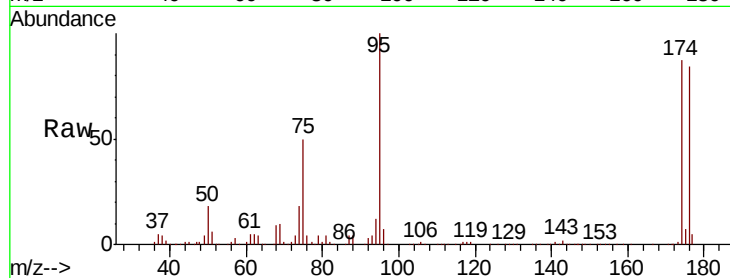
Z3-0684DL

Tot Ion: 75 Resp: 66308

Ion Ratio Lower Upper

75 100

77 1.5 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

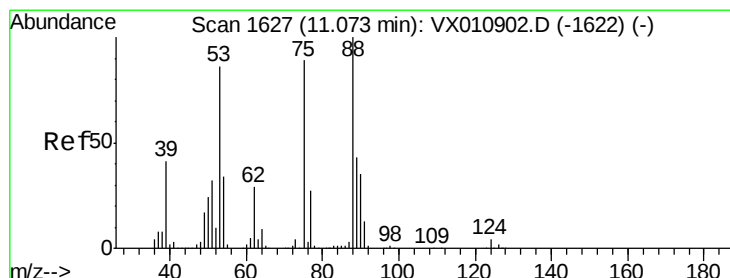
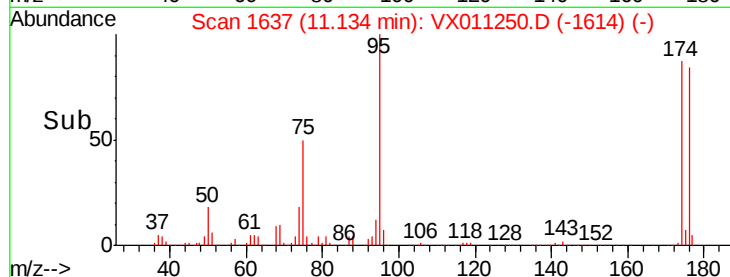
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 65.485 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011250.D

Acq: 31 Jul 2019 18:03

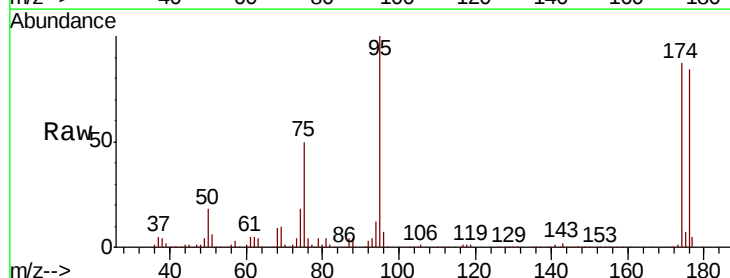
Tgt Ion: 75 Resp: 66308

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



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

60000

40000

20000

0

Time-->

11.10 11.20

