

Data File : VX011306.D
Acq On : 02 Aug 2019 15:43
Operator : JC/SP
Sample : K4119-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Z3-0682

Quant Time: Aug 03 05:44:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	142739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	227165	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	217680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	98961	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	75404	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	
35) Dibromofluoromethane	5.49	113	72526	48.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.80%	
50) Toluene-d8	8.71	98	277701	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
62) 4-Bromofluorobenzene	11.13	95	93716	46.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.78%	

Target Compounds			Qvalue			
3) Chloromethane	1.32	50	705	0.569	ug/l	96
4) Vinyl Chloride	1.40	62	6910	5.074	ug/l #	86
5) Bromomethane	1.64	94	354	0.364	ug/l	91
6) Chloroethane	1.90	64	1128	Below Cal	#	43
10) Methyl Iodide	2.51	142	379	0.229	ug/l #	90
11) Tert butyl alcohol	3.01	59	1276	4.474	ug/l #	77
13) Acrolein	2.29	56	63	Below Cal	#	15
15) Acrylonitrile	3.13	53	161	0.235	ug/l #	20
16) Acetone	2.44	43	1578	2.306	ug/l	99
17) Carbon Disulfide	2.56	76	974	0.320	ug/l #	84
18) Methyl Acetate	2.78	43	470	0.301	ug/l #	76
21) trans-1,2-Dichloroethene	3.16	96	1391	1.013	ug/l #	83
25) 2-Butanone	4.67	43	257	0.264	ug/l #	46
27) cis-1,2-Dichloroethene	4.59	96	30275	19.133	ug/l	90
36) 1,1-Dichloropropene	5.65	75	9335	4.707	ug/l #	49
38) Carbon Tetrachloride	5.65	117	12314	6.171	ug/l #	14
40) Benzene	6.13	78	2473	0.418	ug/l	95
44) Trichloroethene	7.23	130	423	0.236	ug/l	58
49) 1,4-Dioxane	7.90	88	22	0.507	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	43	2.857	ug/l #	43
76) 1,2,3-Trichloropropane	11.13	75	46247	25.661	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	46247	66.846	ug/l #	10

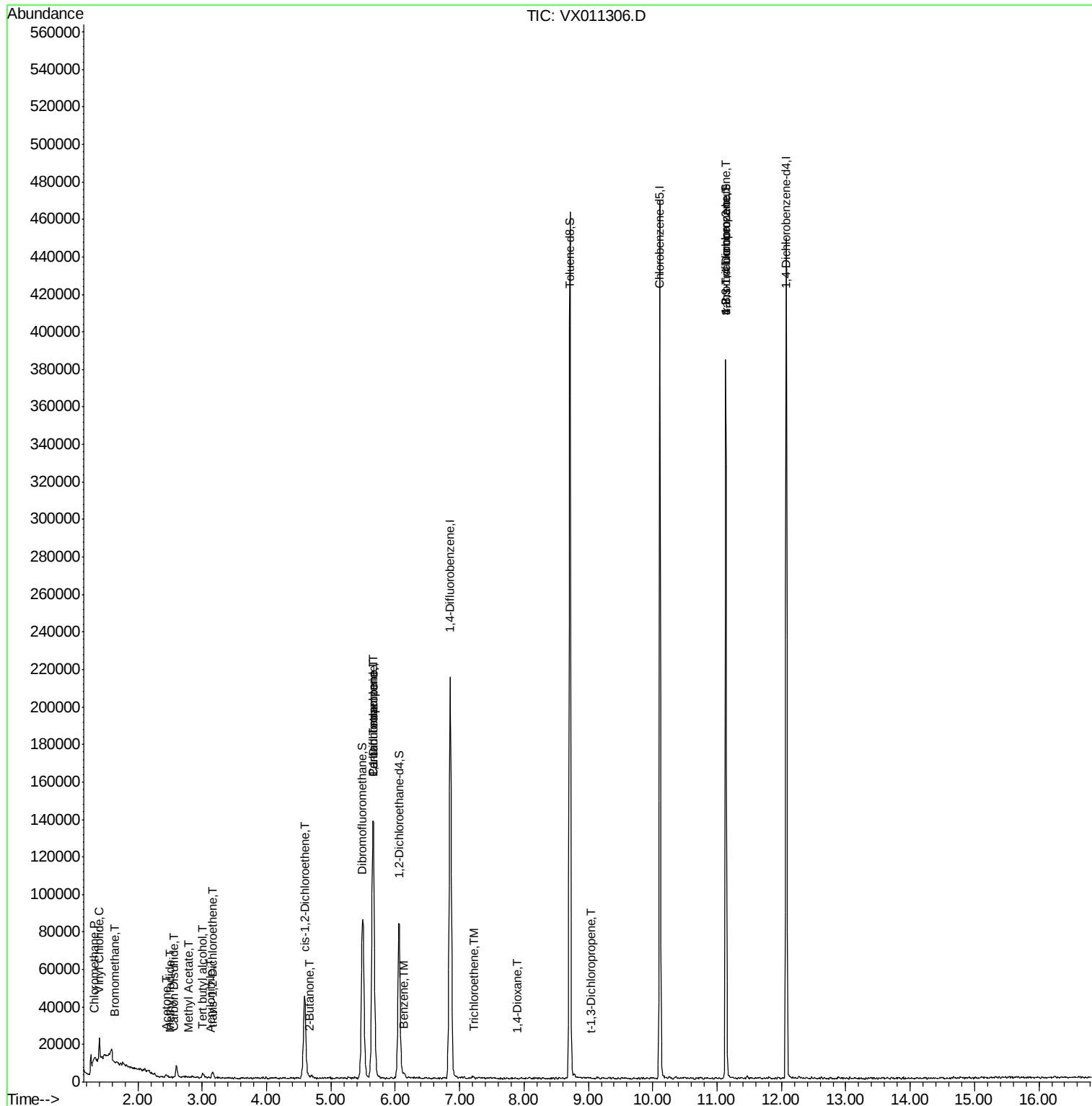
(#) = qualifier out of range (m) = manual integration (+) = signals summed

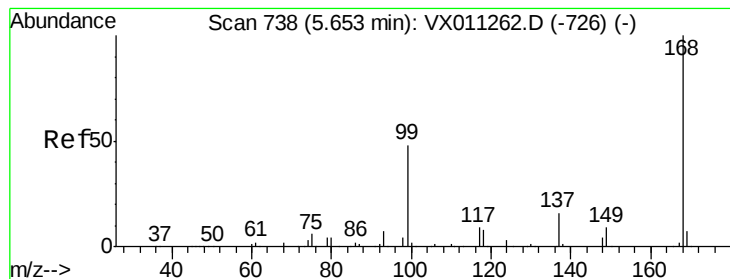
Data File : VX011306.D

```
Acq On       : 02 Aug 2019   15:43
Operator     : JC/SP
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Misc         : 5.0mL/MSVOA_X/WATER
ALS Vial     : 17      Sample Multiplier: 1
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Instrument :
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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

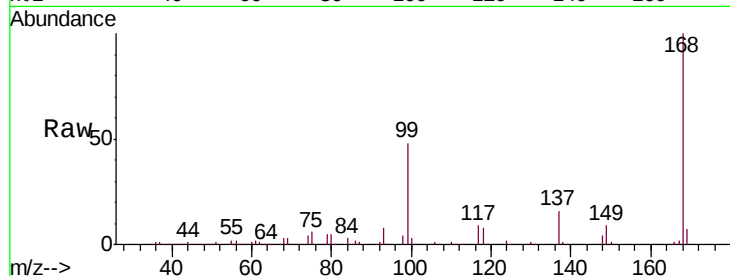
Z3-0682

Tgt Ion:168 Resp: 142739

Ion Ratio Lower Upper

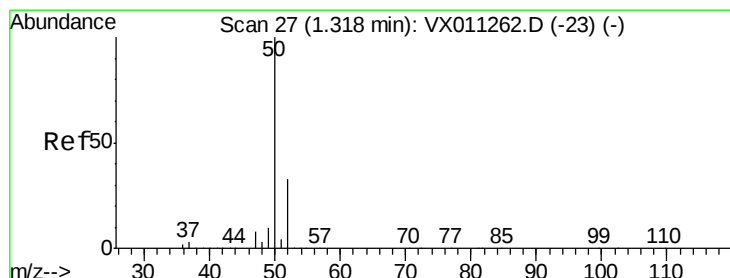
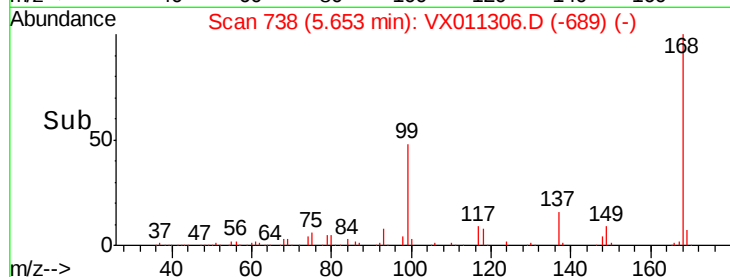
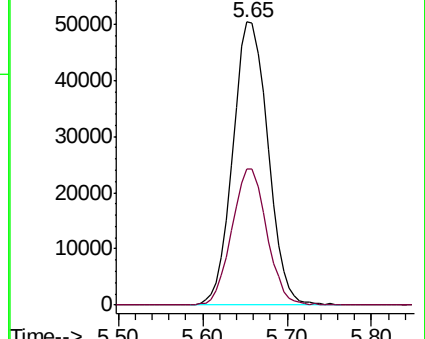
168 100

99 48.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.569 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX011306.D

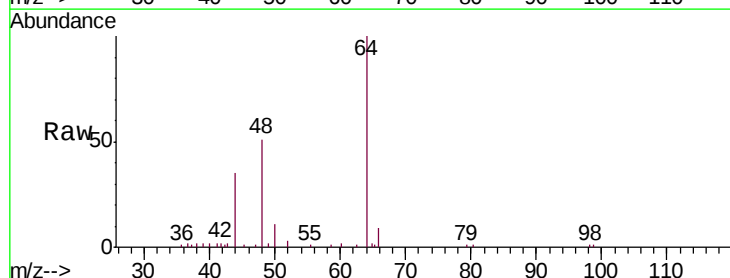
Acq: 02 Aug 2019 15:43

Tgt Ion: 50 Resp: 705

Ion Ratio Lower Upper

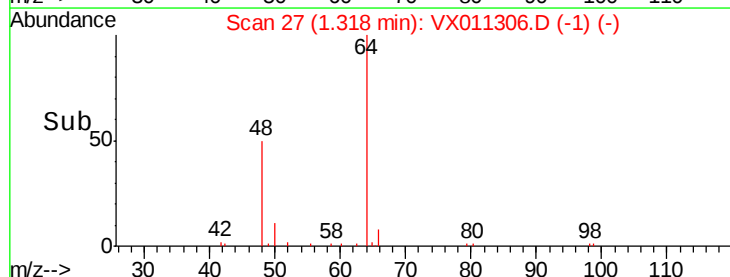
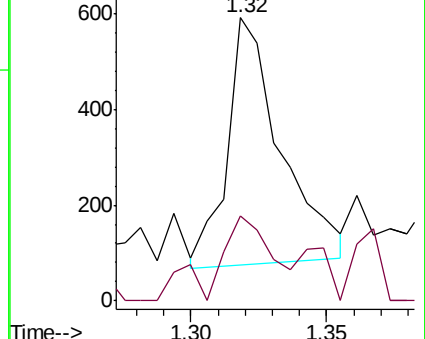
50 100

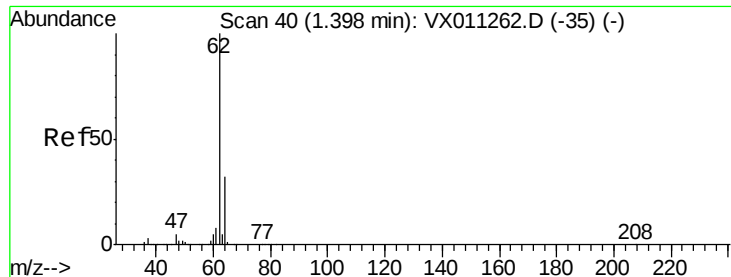
52 35.2 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 5.074 ug/l

RT: 1.40 min Scan# 40

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

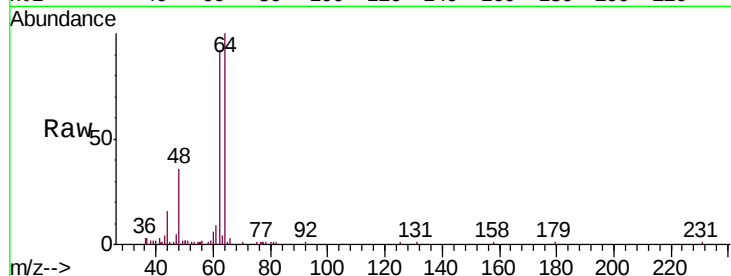
Z3-0682

Tgt Ion: 62 Resp: 6910

Ion Ratio Lower Upper

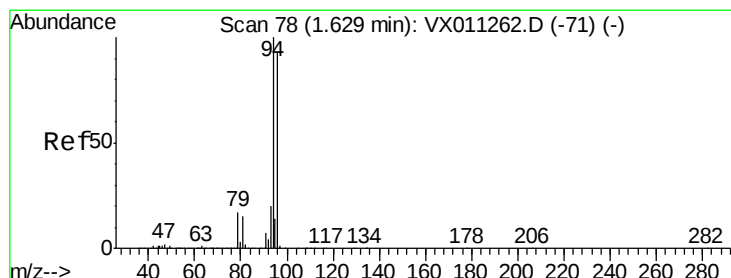
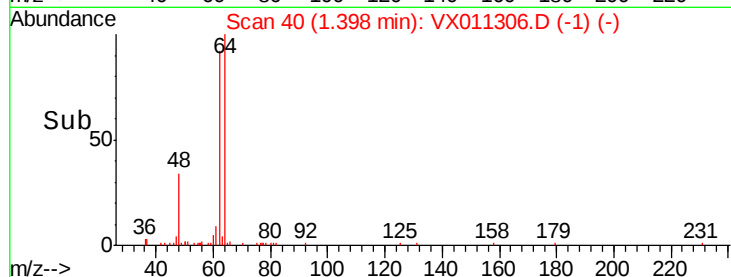
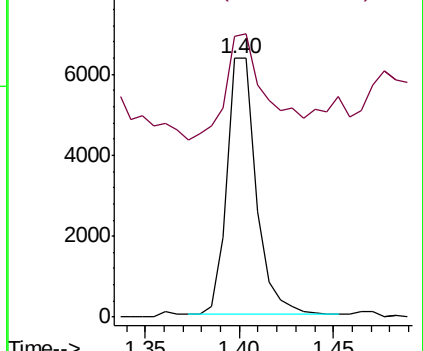
62 100

64 40.3 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.364 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011306.D

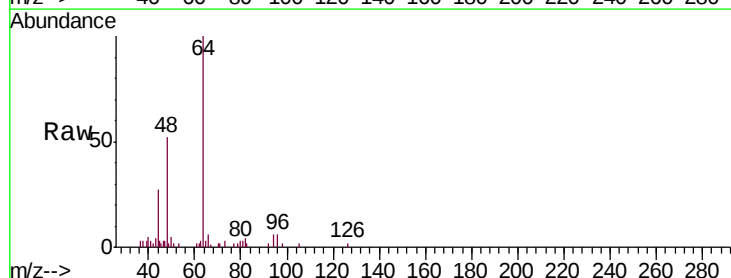
Acq: 02 Aug 2019 15:43

Tgt Ion: 94 Resp: 354

Ion Ratio Lower Upper

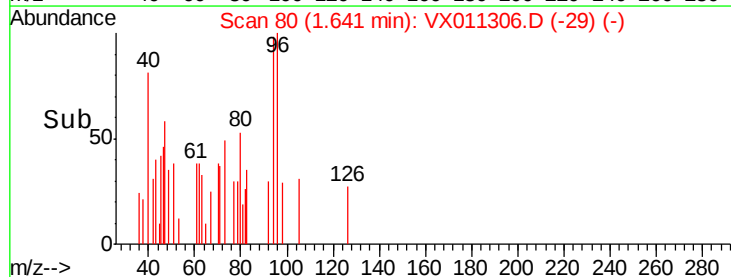
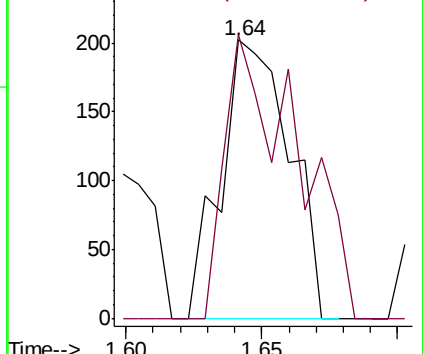
94 100

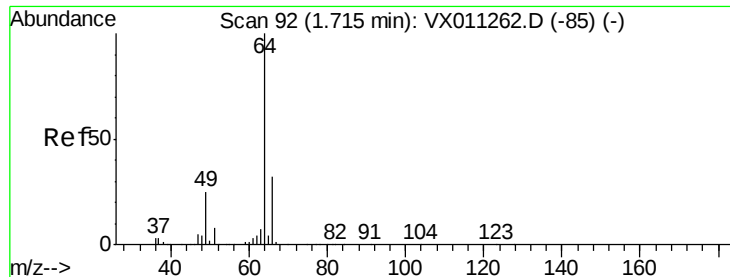
96 102.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.90 min Scan# 123

Delta R.T. 0.19 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

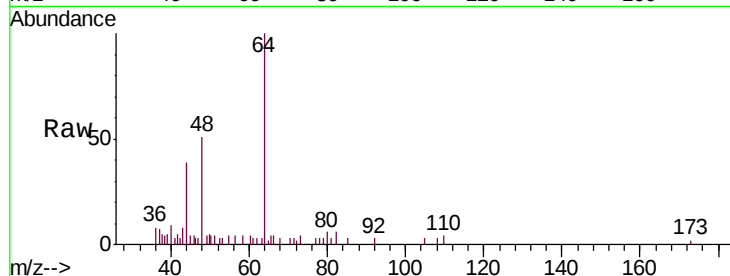
Z3-0682

Tgt Ion: 64 Resp: 1128

Ion Ratio Lower Upper

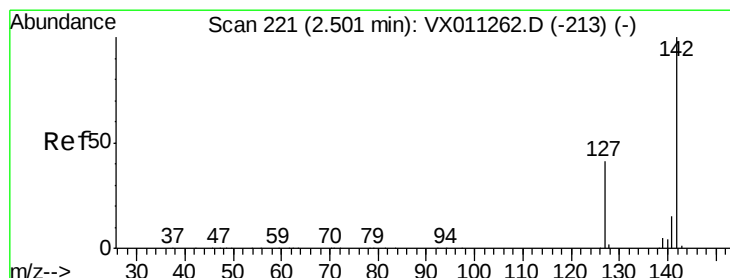
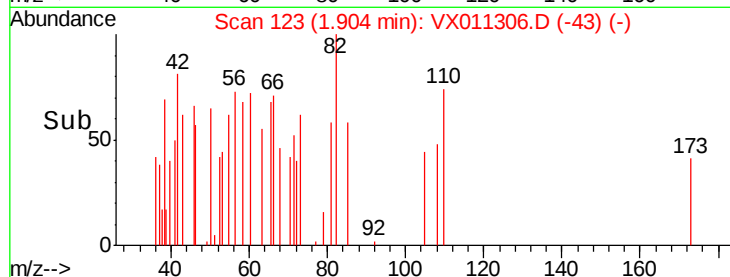
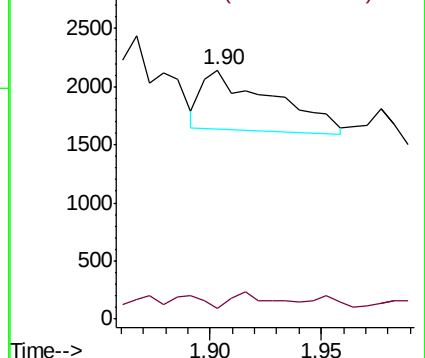
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.229 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

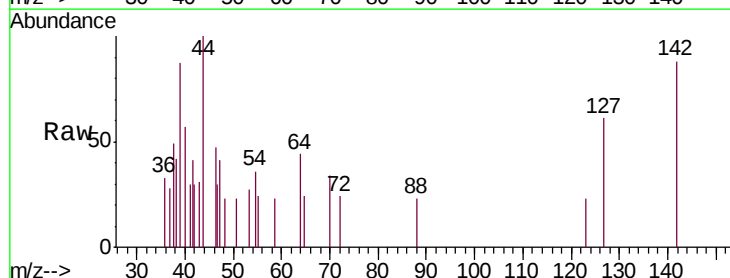
Tgt Ion: 142 Resp: 379

Ion Ratio Lower Upper

142 100

127 45.6 33.8 50.8

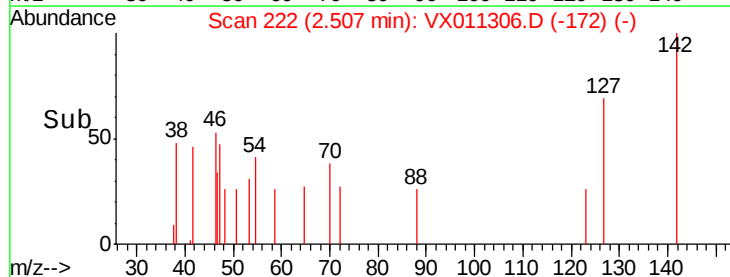
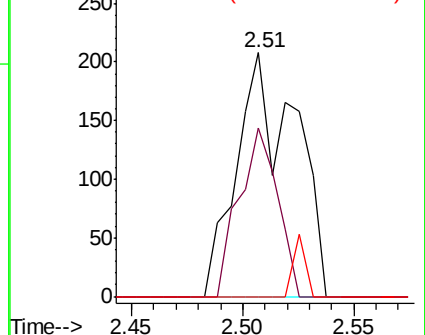
141 5.0 11.4 17.2#

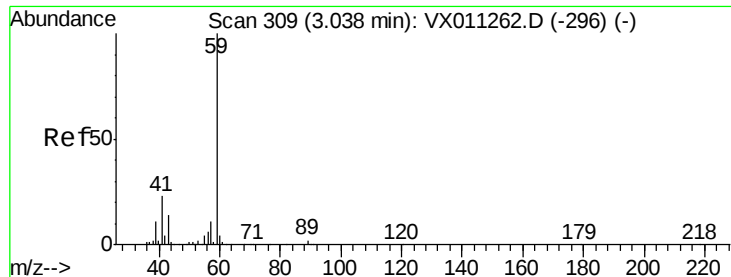


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



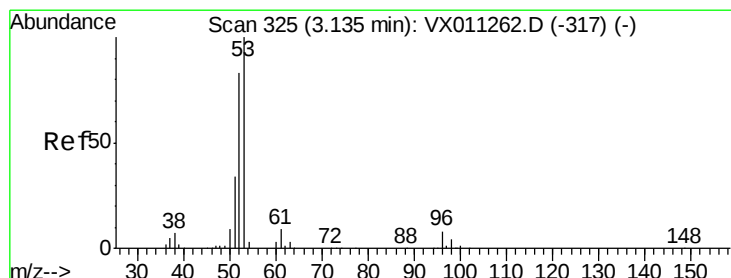
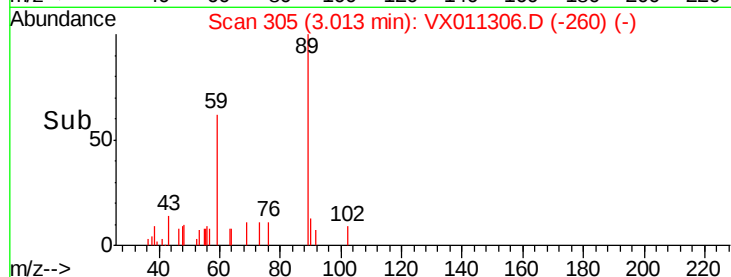
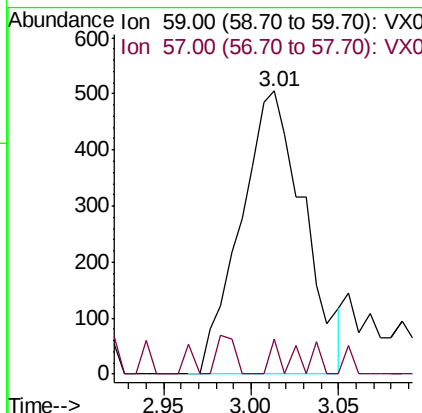
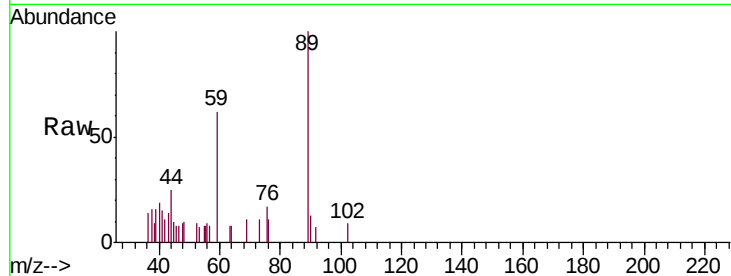


#11

Tert butyl alcohol
 Concen: 4.474 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.02 min
 Lab File: VX011306.D
 Acq: 02 Aug 2019 15:43

Instrument :
 MSVOA_N
 ClientSampled :
 Z3-0682

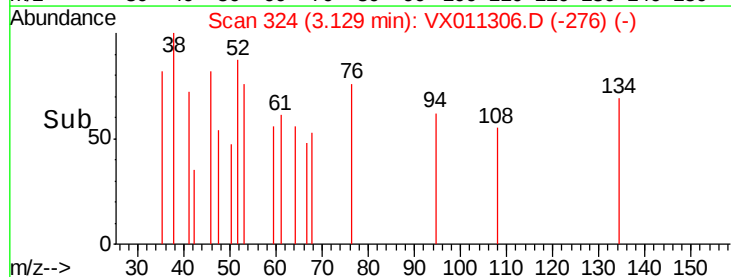
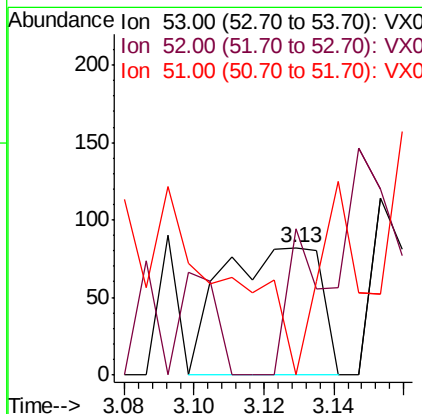
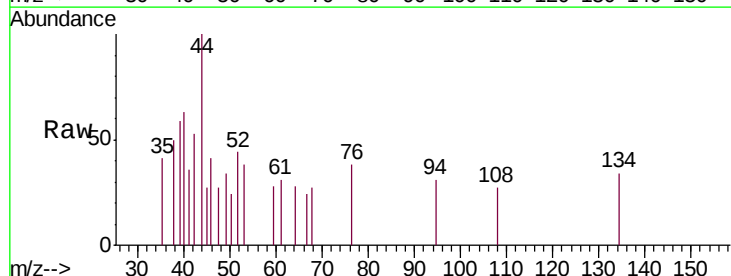
Tgt Ion: 59 Resp: 1276
 Ion Ratio Lower Upper
 59 100
 57 1.8 8.3 12.5#

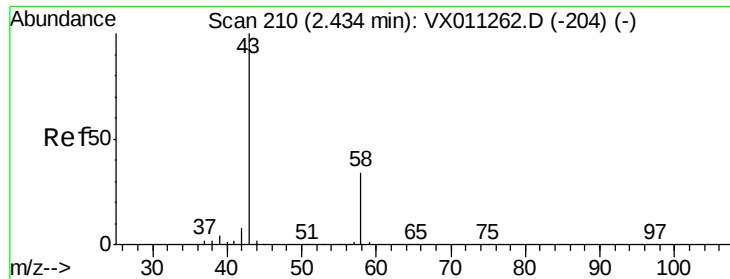


#15

Acrylonitrile
 Concen: 0.235 ug/l
 RT: 3.13 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VX011306.D
 Acq: 02 Aug 2019 15:43

Tgt Ion: 53 Resp: 161
 Ion Ratio Lower Upper
 53 100
 52 0.0 65.5 98.3#
 51 65.8 27.9 41.9#





#16

Acetone

Concen: 2.306 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

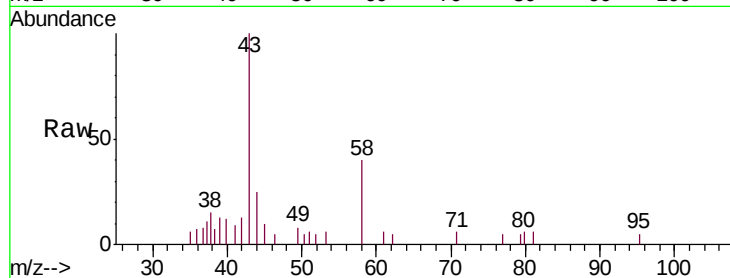
Z3-0682

Tgt Ion: 43 Resp: 1578

Ion Ratio Lower Upper

43 100

58 34.7 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

600

400

200

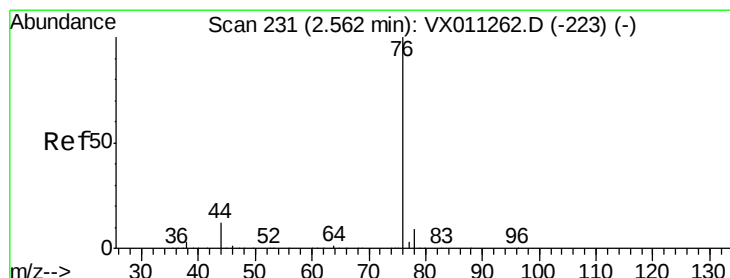
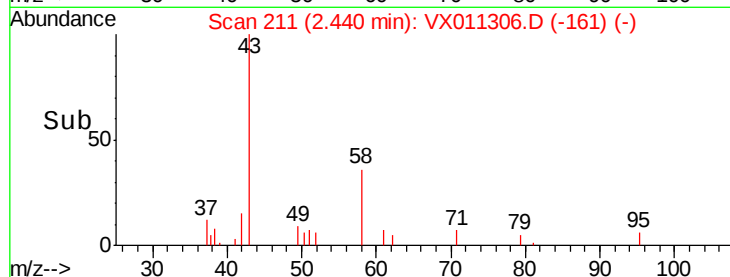
0

2.40

2.45

2.50

Time-->



#17

Carbon Disulfide

Concen: 0.320 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011306.D

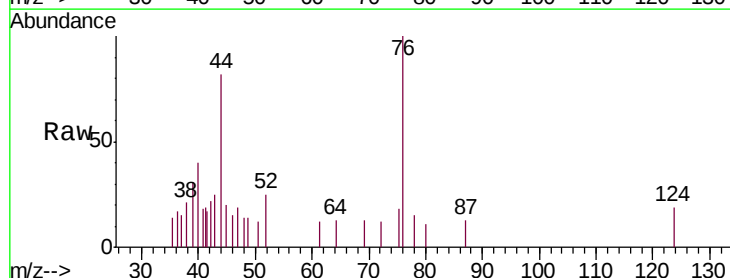
Acq: 02 Aug 2019 15:43

Tgt Ion: 76 Resp: 974

Ion Ratio Lower Upper

76 100

78 15.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

500

400

300

200

100

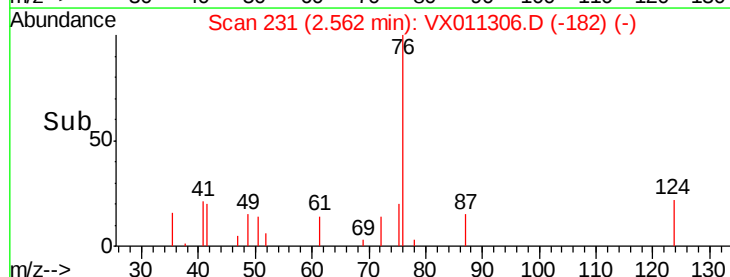
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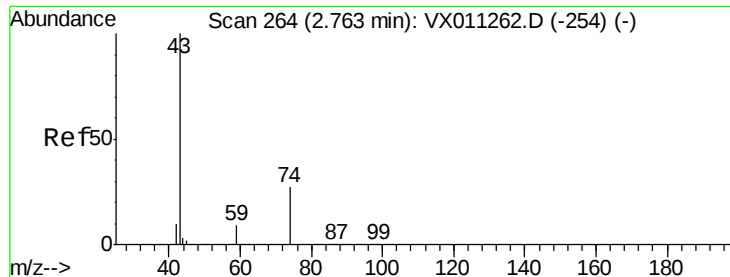
2.50

2.55

2.60

Time-->

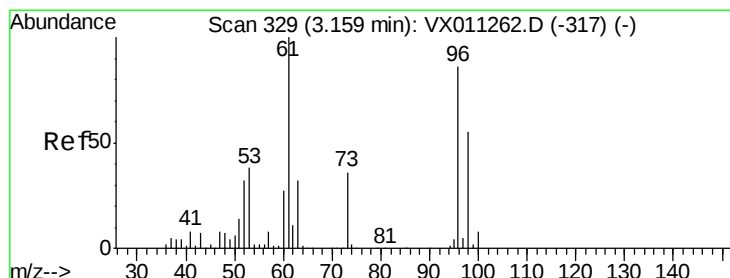
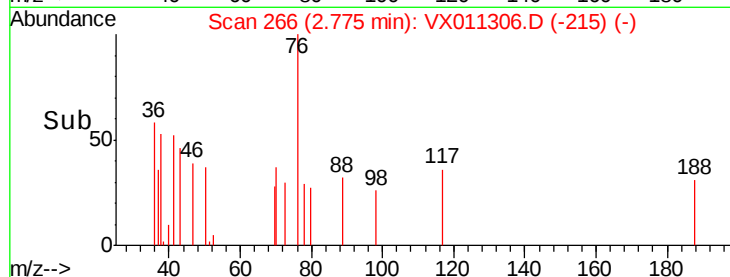
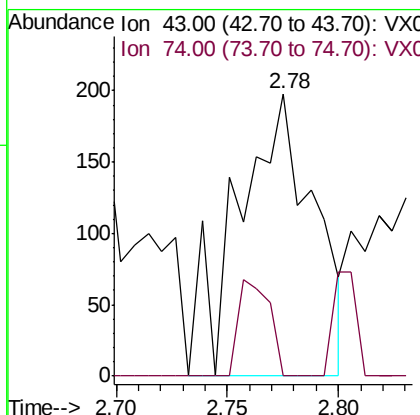
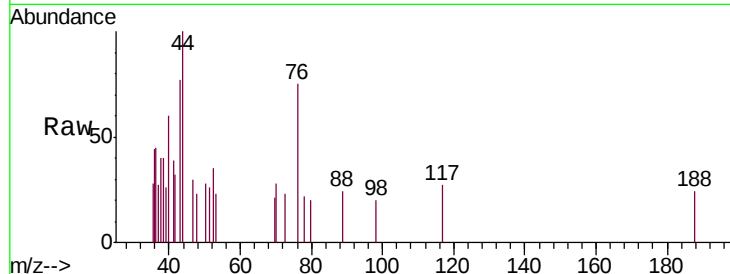




#18
Methyl Acetate
Concen: 0.301 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX011306.D
Acq: 02 Aug 2019 15:43

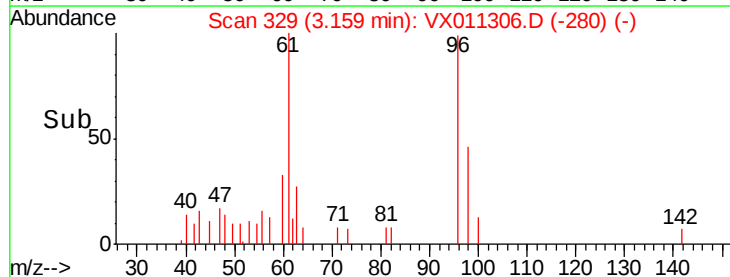
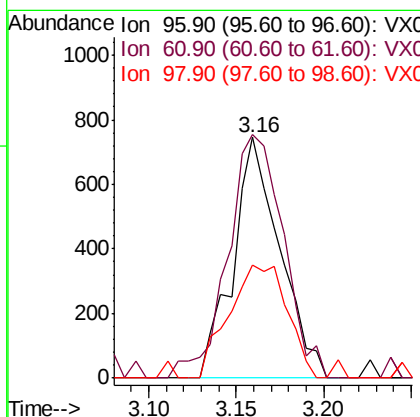
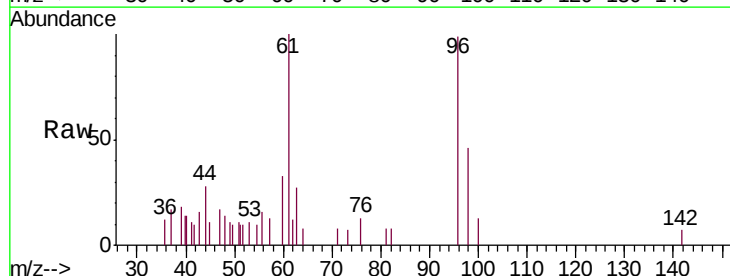
Instrument :
MSVOA_N
ClientSampled :
Z3-0682

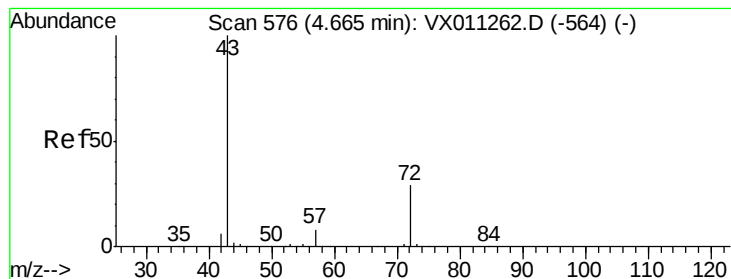
Tgt Ion: 43 Resp: 470
Ion Ratio Lower Upper
43 100
74 14.0 21.0 31.6#



#21
trans-1,2-Dichloroethene
Concen: 1.013 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.00 min
Lab File: VX011306.D
Acq: 02 Aug 2019 15:43

Tgt Ion: 96 Resp: 1391
Ion Ratio Lower Upper
96 100
61 101.1 92.8 139.2
98 46.8 51.2 76.8#





#25

2-Butanone

Concen: 0.264 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.01 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

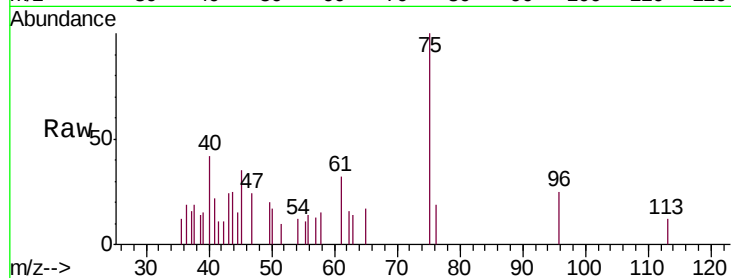
Z3-0682

Tgt Ion: 43 Resp: 257

Ion Ratio Lower Upper

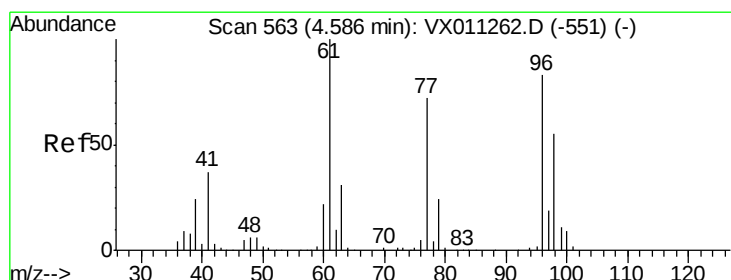
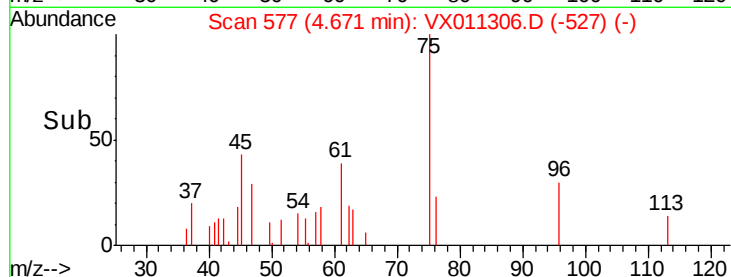
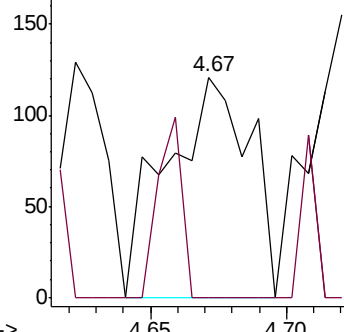
43 100

72 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 19.133 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

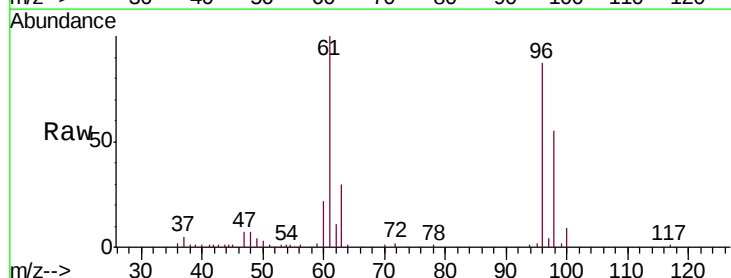
Tgt Ion: 96 Resp: 30275

Ion Ratio Lower Upper

96 100

61 114.1 0.0 260.2

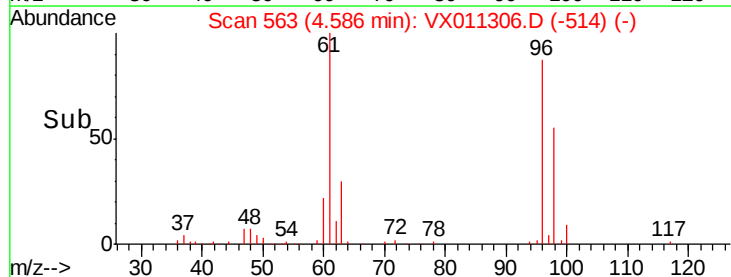
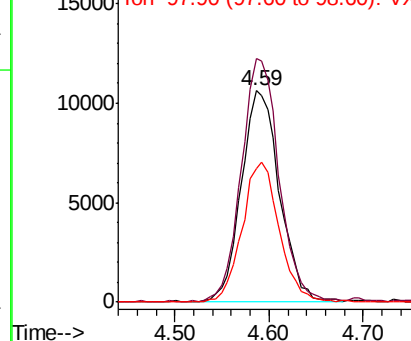
98 63.9 0.0 133.2

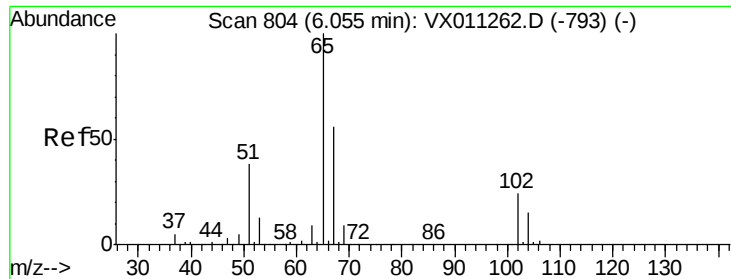


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.456 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

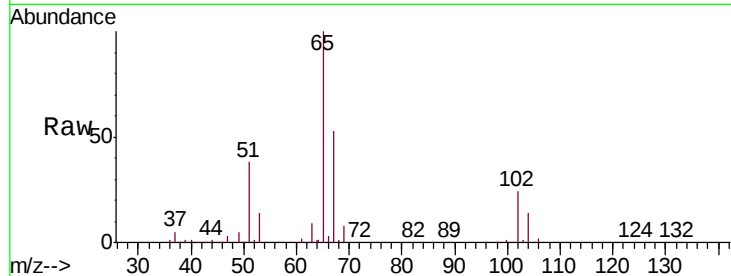
Z3-0682

Tgt Ion: 65 Resp: 75404

Ion Ratio Lower Upper

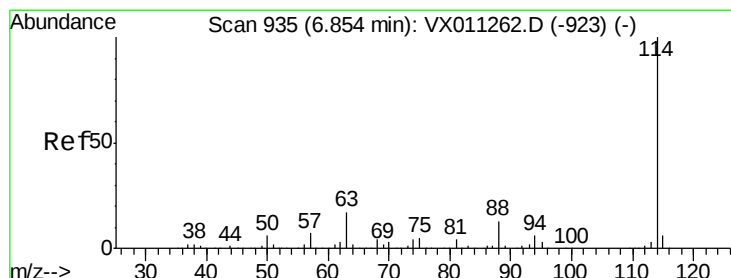
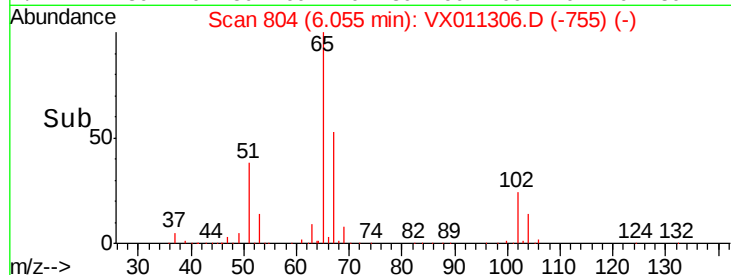
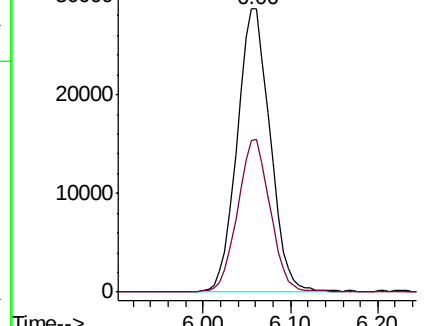
65 100

67 53.5 0.0 110.6



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. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

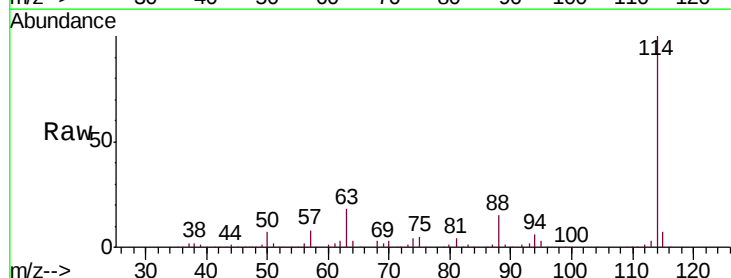
Tgt Ion: 114 Resp: 227165

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.0

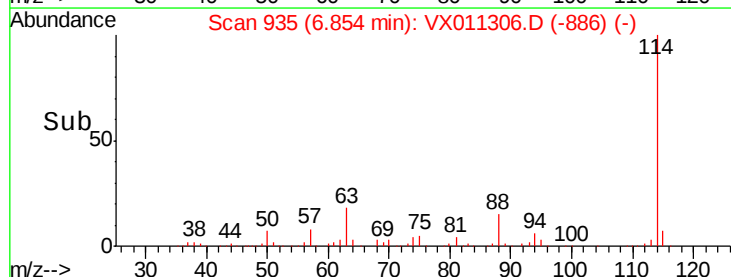
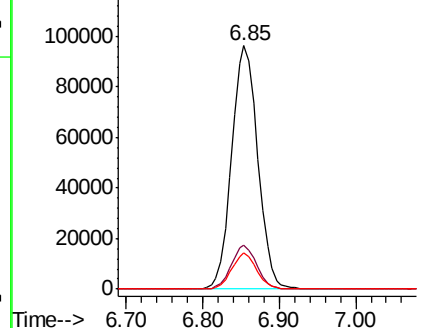
88 15.0 0.0 26.4

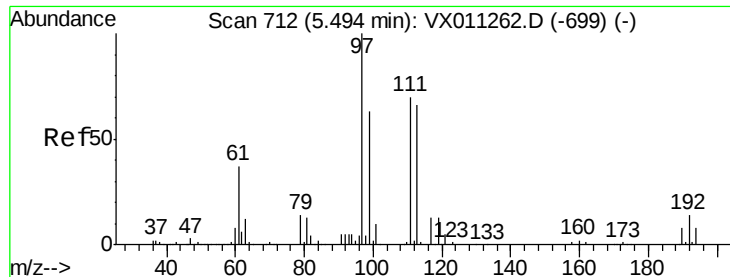


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.901 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

Z3-0682

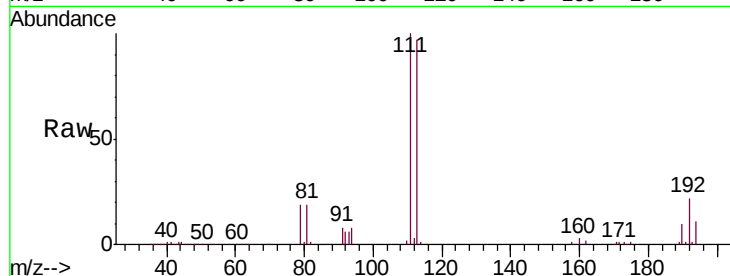
Tgt Ion:113 Resp: 72526

Ion Ratio Lower Upper

113 100

111 101.2 81.9 122.9

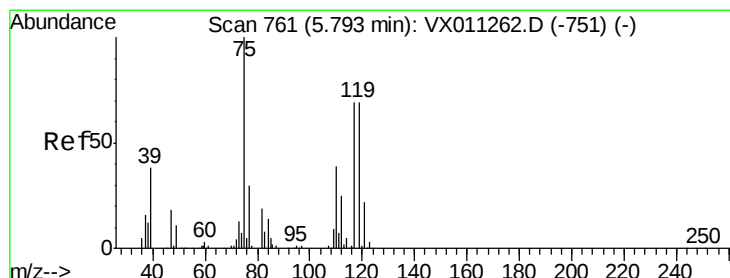
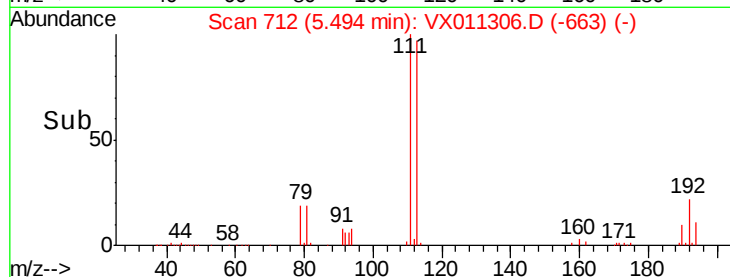
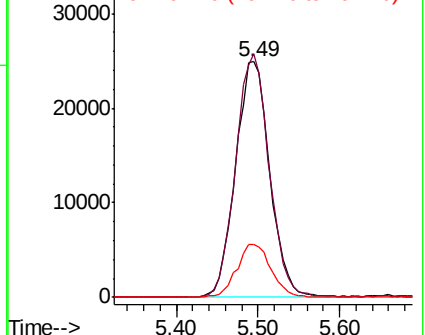
192 22.4 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.707 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

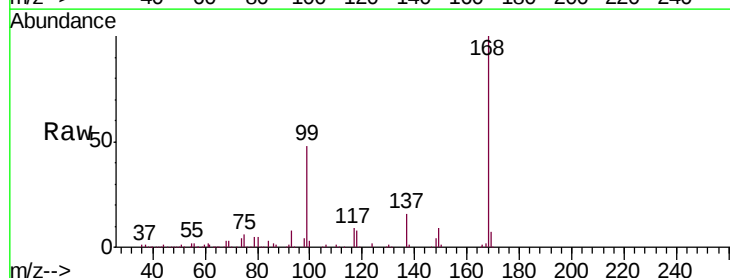
Tgt Ion: 75 Resp: 9335

Ion Ratio Lower Upper

75 100

110 10.3 20.0 59.9#

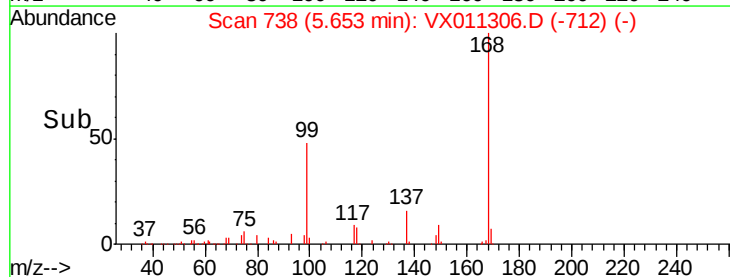
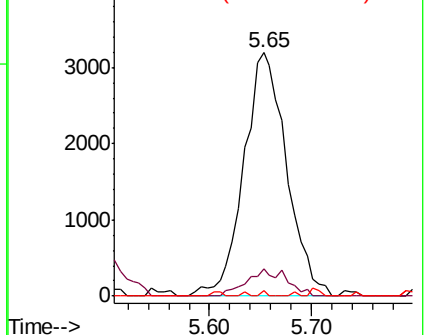
77 0.3 24.8 37.2#

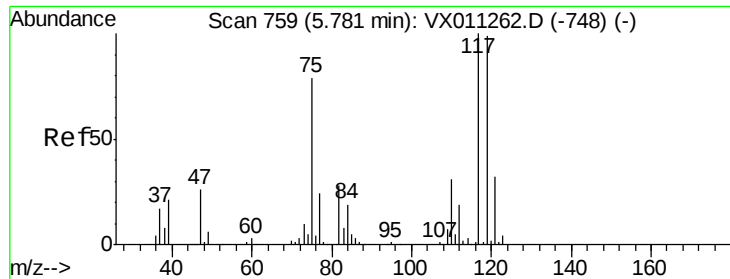


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

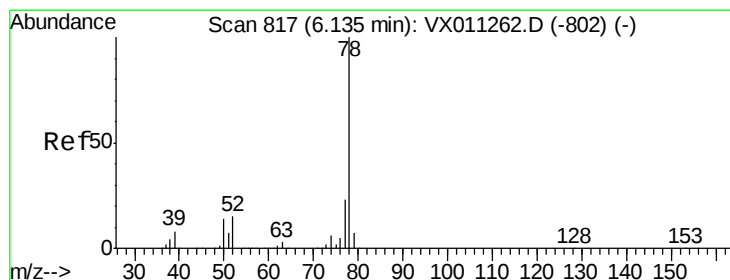
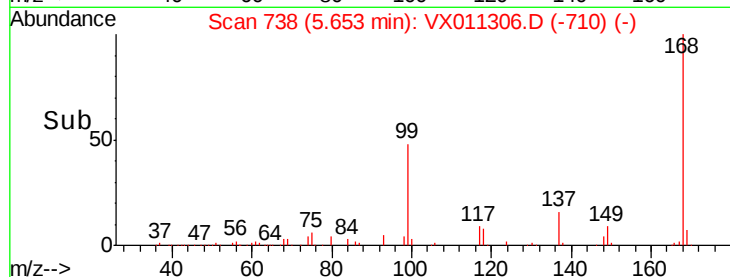
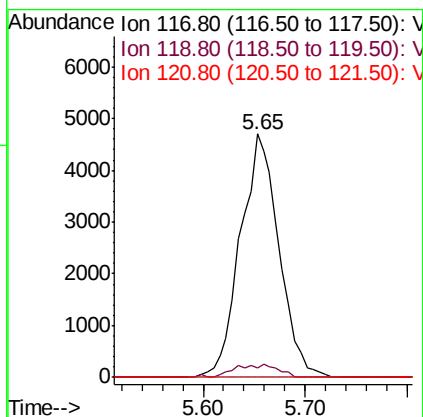
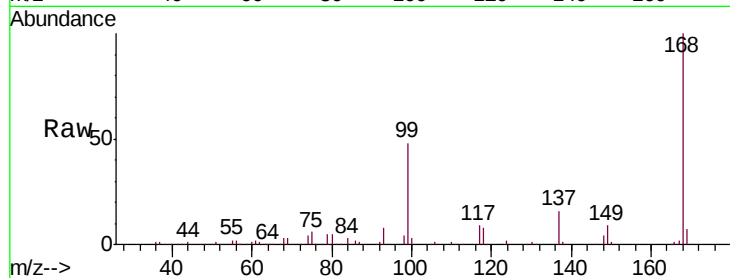




#38
Carbon Tetrachloride
Concen: 6.171 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011306.D
Acq: 02 Aug 2019 15:43

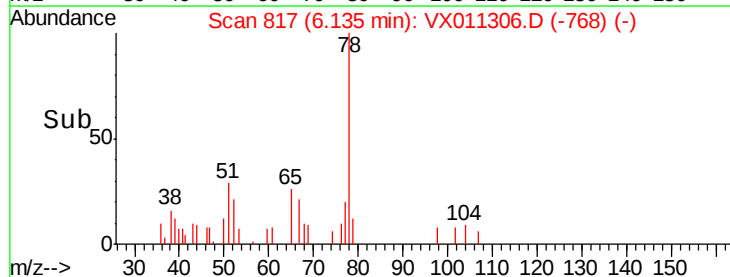
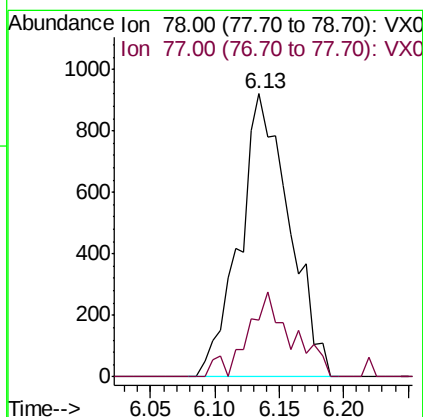
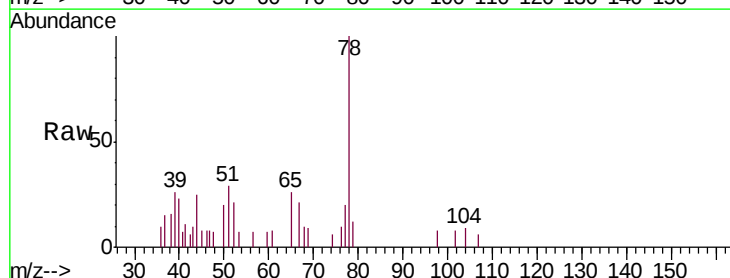
Instrument :
MSVOA_N
ClientSampleId :
Z3-0682

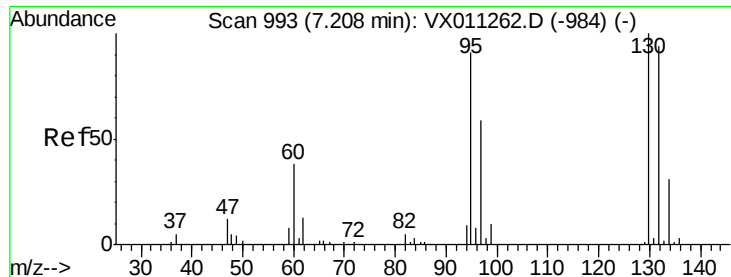
Tgt Ion:117 Resp: 12314
Ion Ratio Lower Upper
117 100
119 3.8 79.0 118.4#
121 0.0 25.9 38.9#



#40
Benzene
Concen: 0.418 ug/l
RT: 6.13 min Scan# 817
Delta R.T. -0.00 min
Lab File: VX011306.D
Acq: 02 Aug 2019 15:43

Tgt Ion: 78 Resp: 2473
Ion Ratio Lower Upper
78 100
77 20.2 18.2 27.2





#44

Trichloroethene

Concen: 0.236 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.02 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

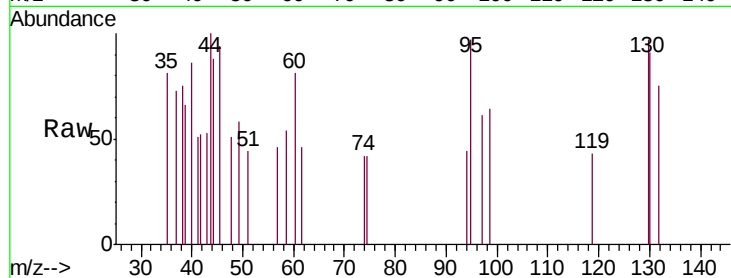
Z3-0682

Tgt Ion:130 Resp: 423

Ion Ratio Lower Upper

130 100

95 51.5 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.23

250

200

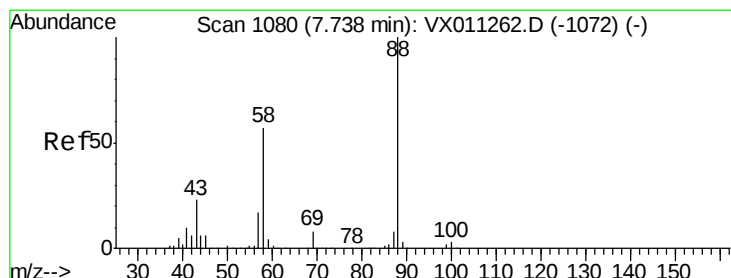
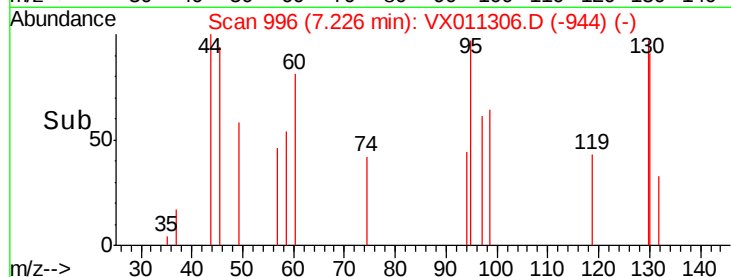
150

100

50

0

Time--> 7.15 7.20 7.25



#49

1,4-Dioxane

Concen: 0.507 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.16 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

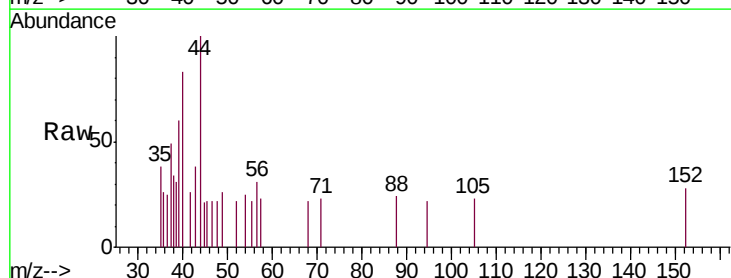
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 1286.4 22.2 33.2#

58 0.0 47.8 71.8#



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

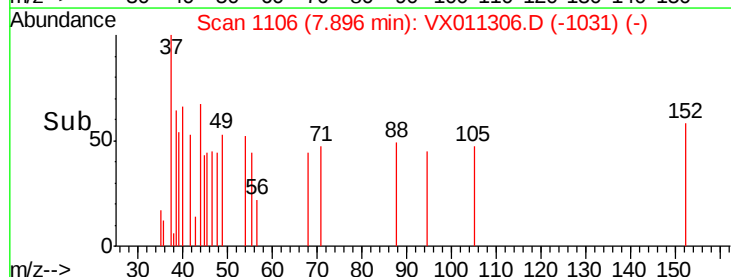
150

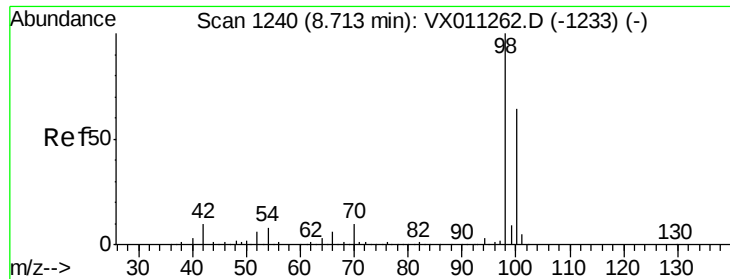
100

50

0

Time--> 7.88 7.89 7.90 7.91





#50

Toluene-d8

Concen: 49.605 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampled :

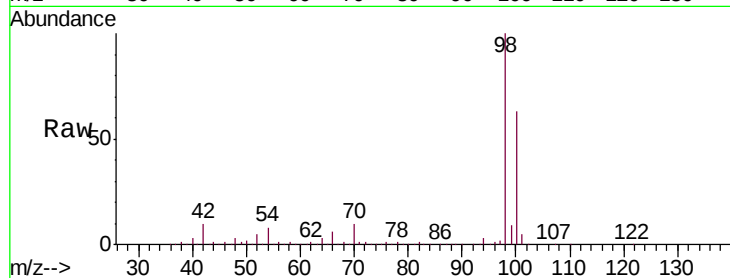
Z3-0682

Tgt Ion: 98 Resp: 277701

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

200000

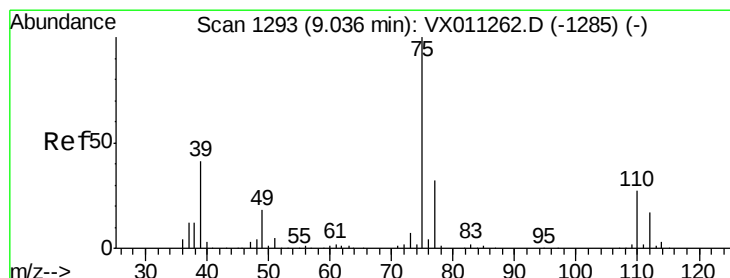
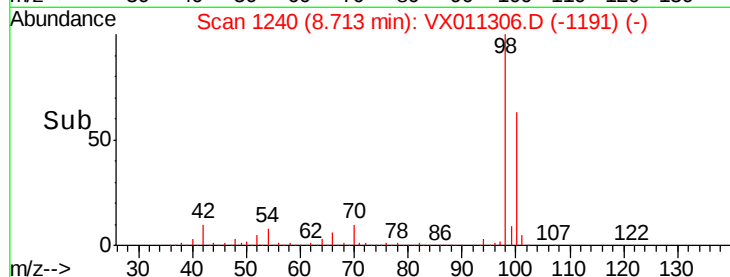
150000

100000

50000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.857 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX011306.D

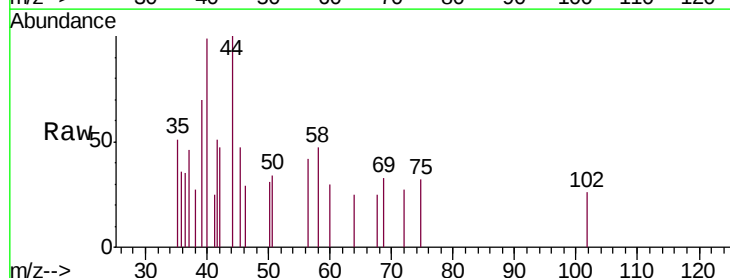
Acq: 02 Aug 2019 15:43

Tgt Ion: 75 Resp: 43

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.05

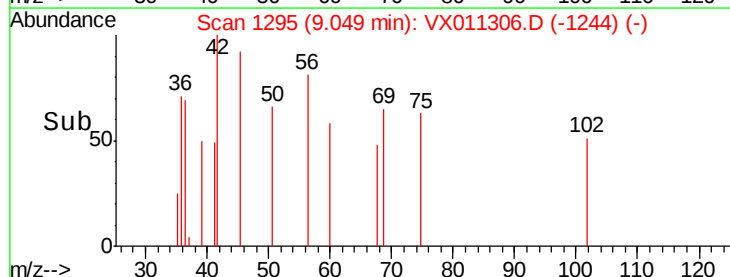
60

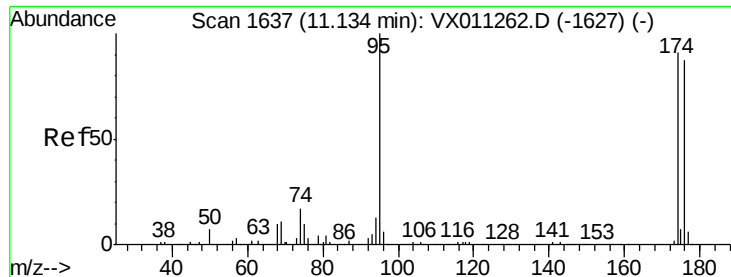
40

20

0

Time-->

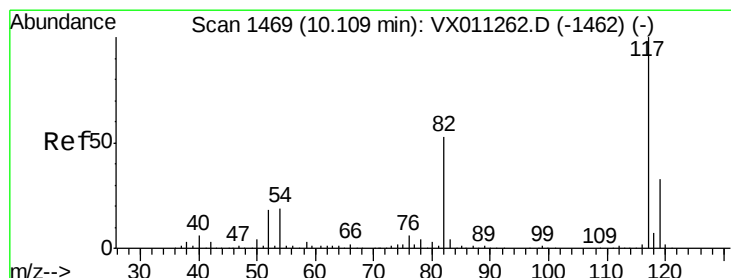
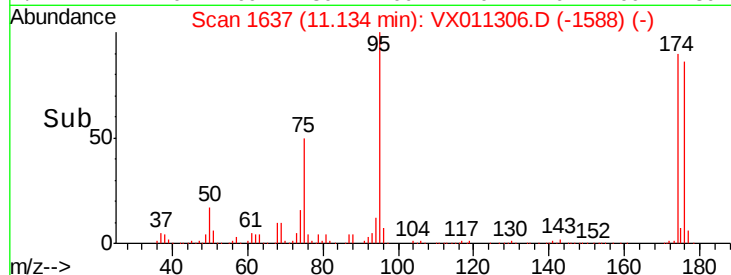
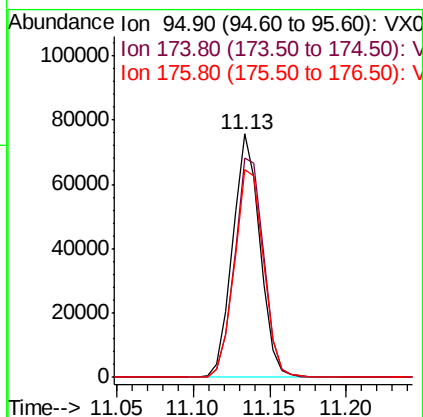
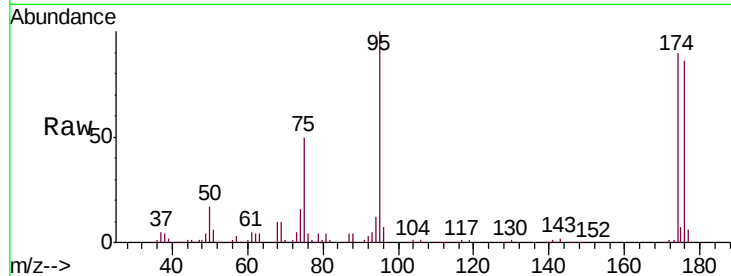




#62
4-Bromofluorobenzene
Concen: 46.887 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011306.D
Acq: 02 Aug 2019 15:43

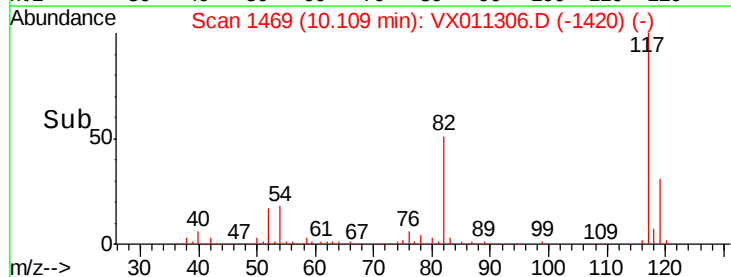
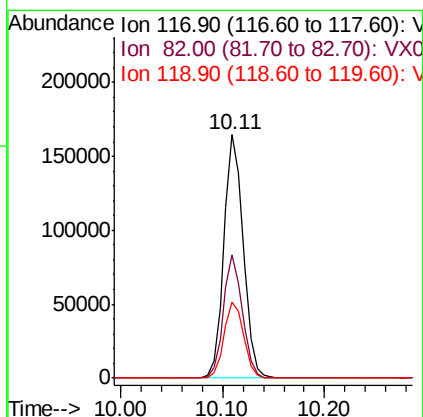
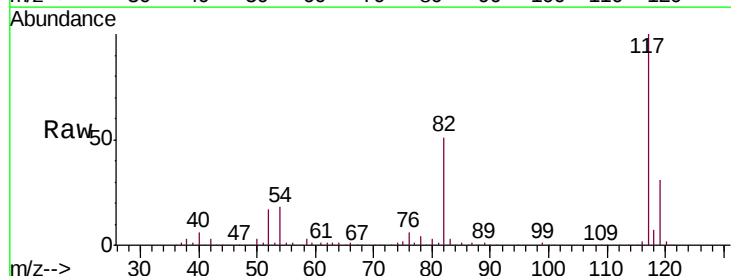
Instrument :
MSVOA_N
ClientSampleId :
Z3-0682

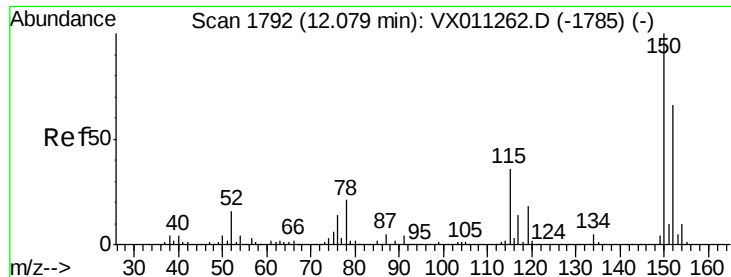
Tgt Ion: 95 Resp: 93716
Ion Ratio Lower Upper
95 100
174 95.5 0.0 191.2
176 91.0 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011306.D
Acq: 02 Aug 2019 15:43

Tgt Ion: 117 Resp: 217680
Ion Ratio Lower Upper
117 100
82 50.9 42.2 63.2
119 31.3 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

Z3-0682

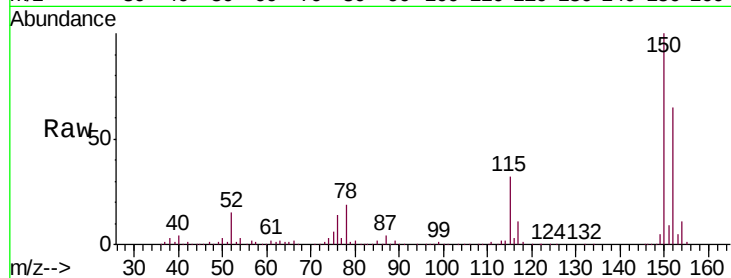
Tgt Ion:152 Resp: 98961

Ion Ratio Lower Upper

152 100

115 54.1 40.0 119.9

150 157.6 0.0 350.4



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

150000

100000

50000

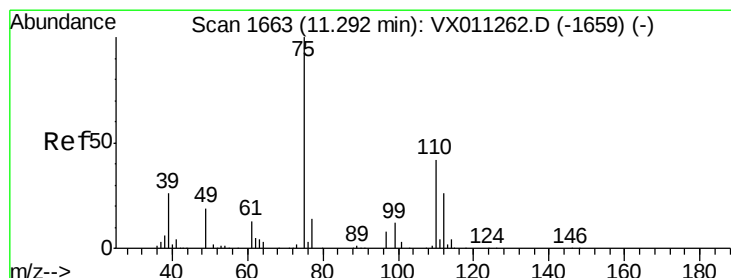
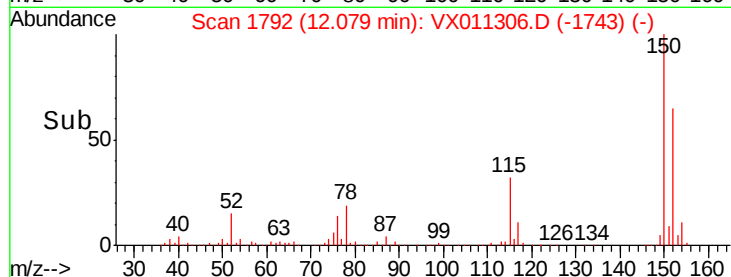
0

12.08

12.00

12.10

Time-->



#76

1,2,3-Trichloropropane

Concen: 25.661 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011306.D

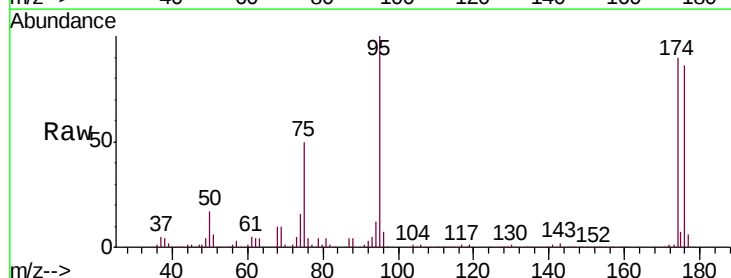
Acq: 02 Aug 2019 15:43

Tgt Ion: 75 Resp: 46247

Ion Ratio Lower Upper

75 100

77 1.5 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

40000

30000

20000

10000

0

11.13

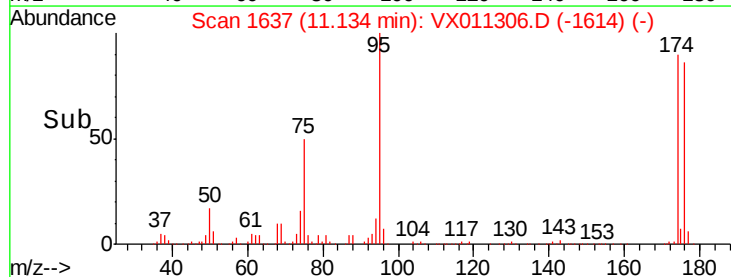
11.05

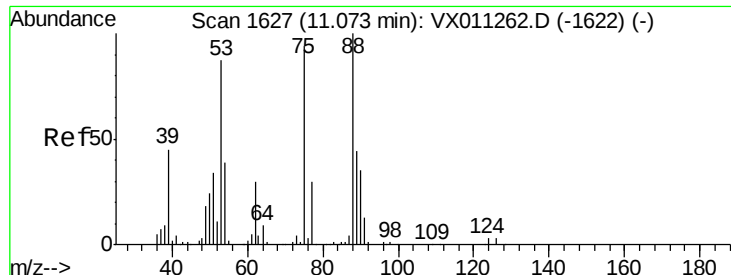
11.10

11.15

11.20

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 66.846 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011306.D

Acq: 02 Aug 2019 15:43

Instrument :

MSVOA_N

ClientSampleId :

Z3-0682

Tgt Ion: 75 Resp: 46247

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.1 37.9 56.9#

