

Data File : VX011312.D
Acq On : 02 Aug 2019 18:04
Operator : JC/SP
Sample : K4119-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Z3-0687

Quant Time: Aug 03 05:45:42 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	143321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	231264	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	217700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	96553	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	76275	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
35) Dibromofluoromethane	5.49	113	73191	48.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.94%	
50) Toluene-d8	8.71	98	281459	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.13	95	92130	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	

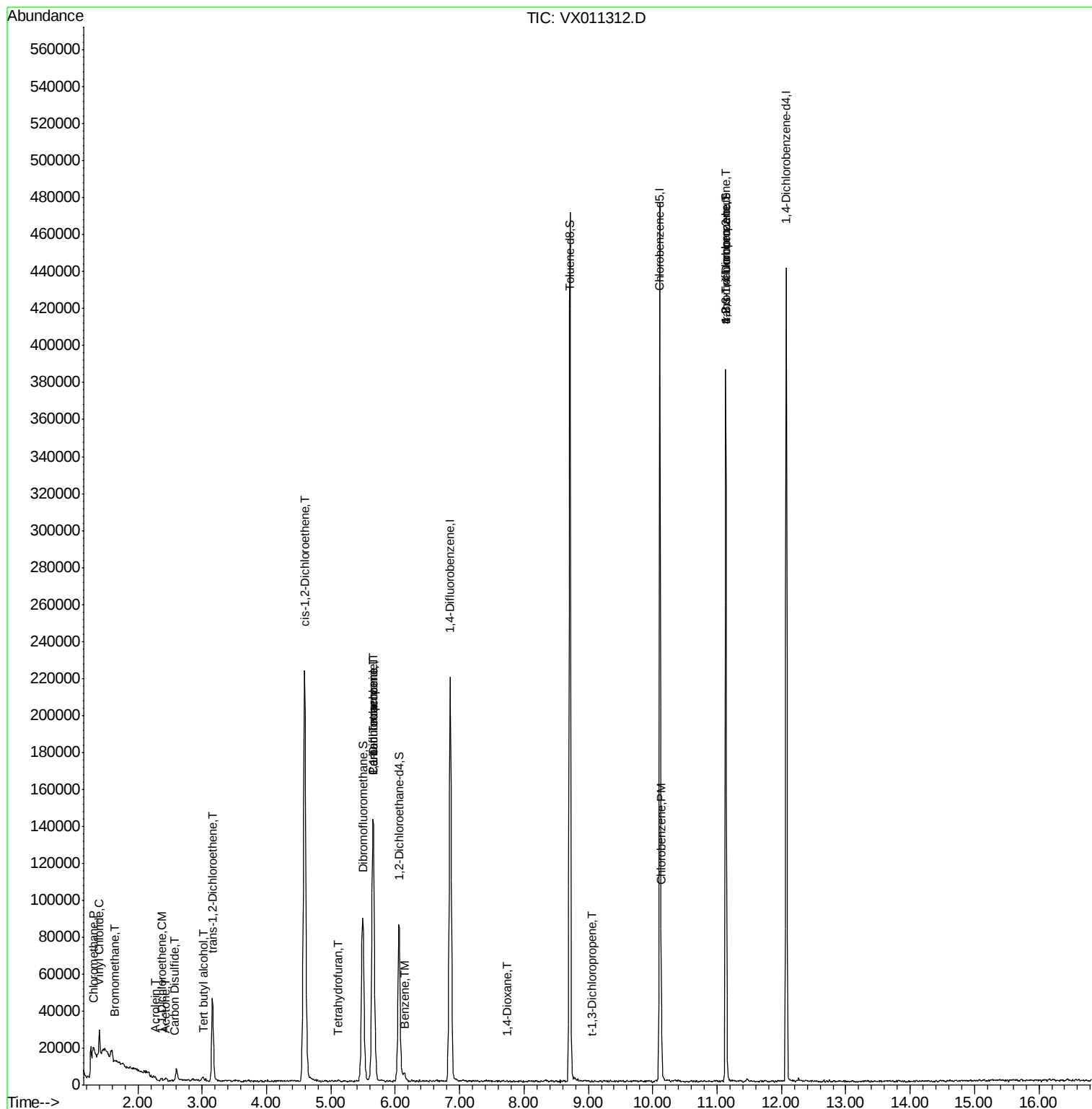
Target Compounds			Qvalue			
3) Chloromethane	1.32	50	751	0.604	ug/l #	63
4) Vinyl Chloride	1.40	62	8413	6.153	ug/l	91
5) Bromomethane	1.65	94	616	0.632	ug/l #	58
6) Chloroethane	1.92	64	399	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	983	3.438	ug/l #	71
12) 1,1-Dichloroethene	2.37	96	466	0.357	ug/l	97
13) Acrolein	2.28	56	217	0.792	ug/l	94
16) Acetone	2.43	43	1978	2.879	ug/l	95
17) Carbon Disulfide	2.56	76	1040	0.340	ug/l #	83
21) trans-1,2-Dichloroethene	3.16	96	19483	14.124	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	148855	93.689	ug/l	91
29) Tetrahydrofuran	5.12	42	157	0.262	ug/l #	29
36) 1,1-Dichloropropene	5.65	75	9602	4.755	ug/l #	49
38) Carbon Tetrachloride	5.66	117	12925	6.363	ug/l #	15
40) Benzene	6.15	78	5051	0.838	ug/l	93
49) 1,4-Dioxane	7.73	88	19	0.430	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	20	2.847	ug/l #	43
65) Chlorobenzene	10.13	112	10452	2.239	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	45076	25.635	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	45076	66.783	ug/l #	10

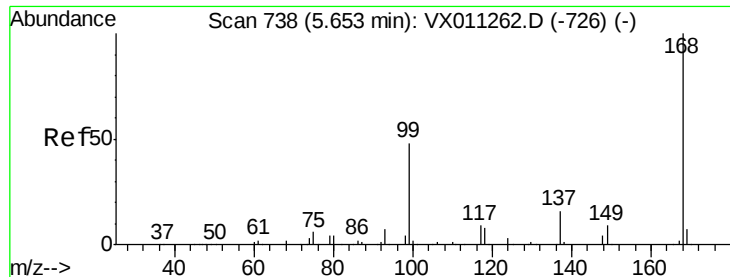
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

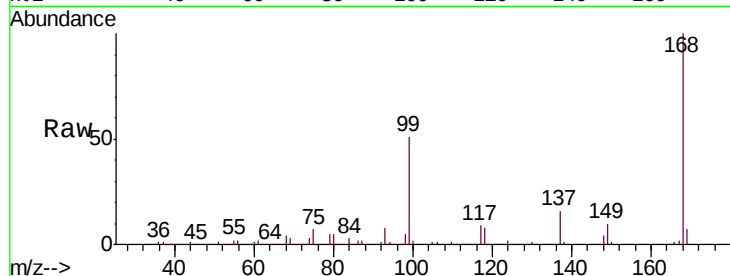
Z3-0687

Tgt Ion:168 Resp: 143321

Ion Ratio Lower Upper

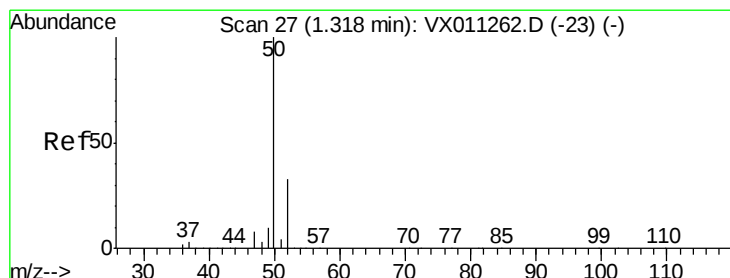
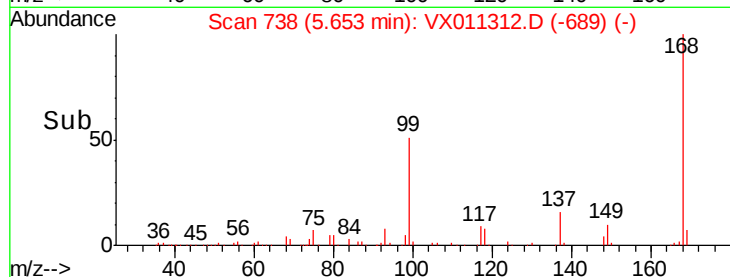
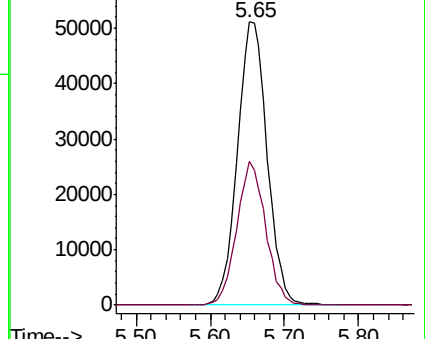
168 100

99 50.7 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: 0.604 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX011312.D

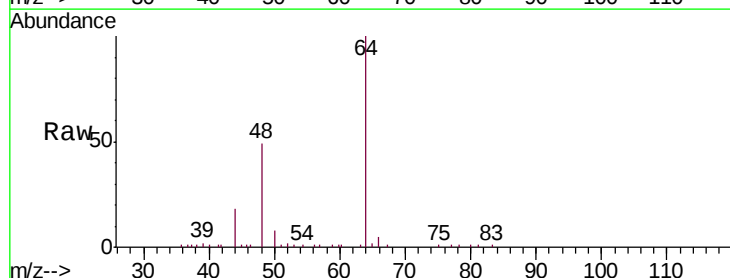
Acq: 02 Aug 2019 18:04

Tgt Ion: 50 Resp: 751

Ion Ratio Lower Upper

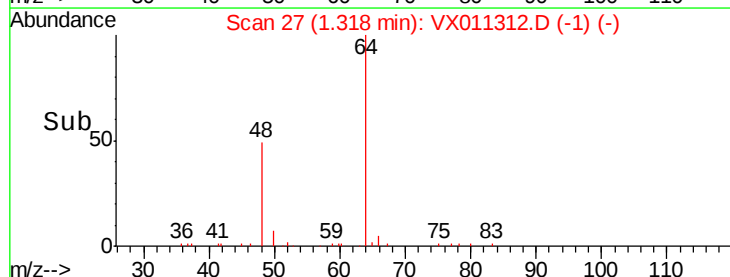
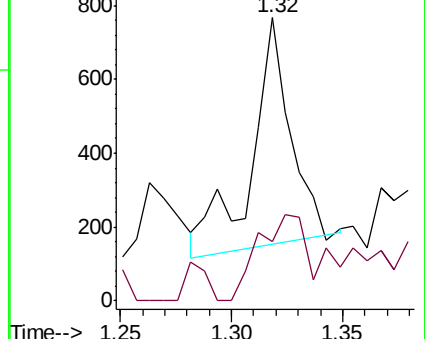
50 100

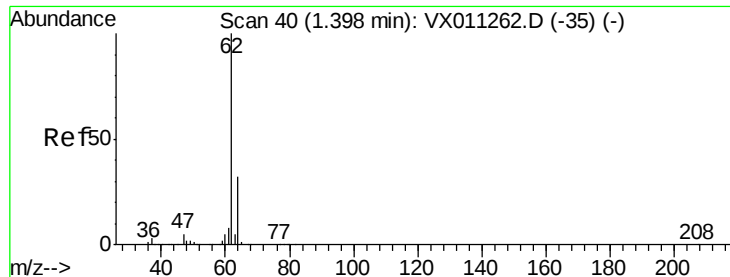
52 12.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 6.153 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.01 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

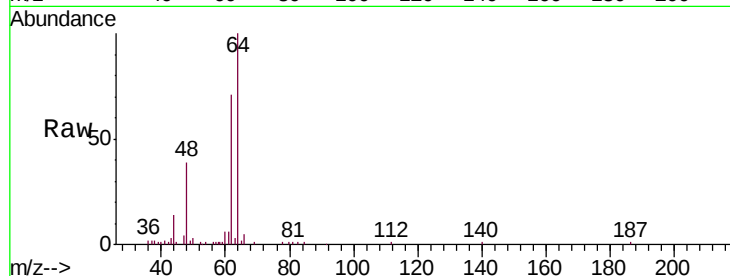
Z3-0687

Tgt Ion: 62 Resp: 8413

Ion Ratio Lower Upper

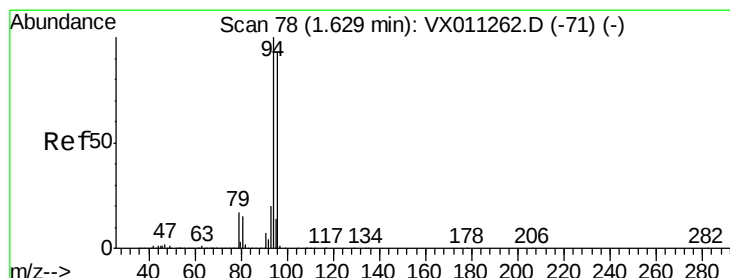
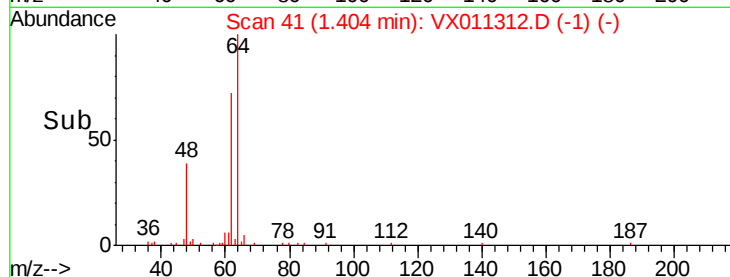
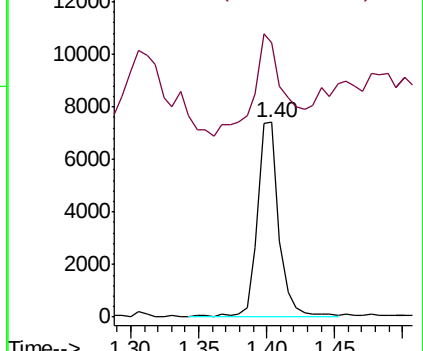
62 100

64 37.5 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: 0.632 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011312.D

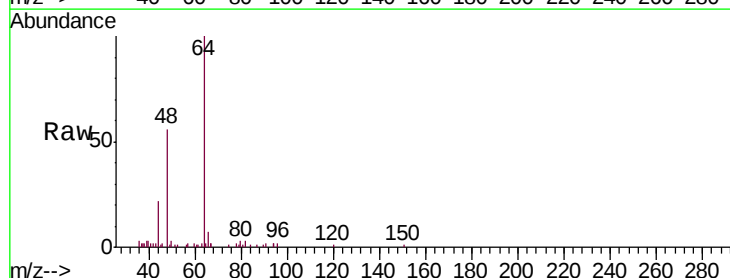
Acq: 02 Aug 2019 18:04

Tgt Ion: 94 Resp: 616

Ion Ratio Lower Upper

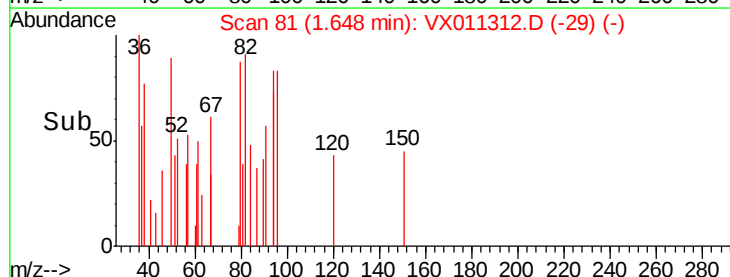
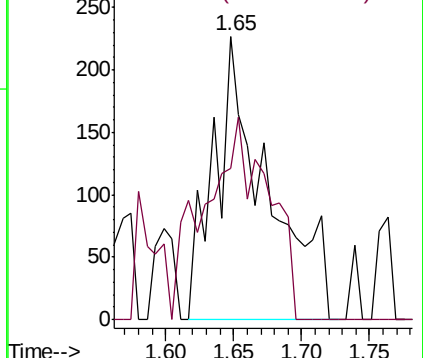
94 100

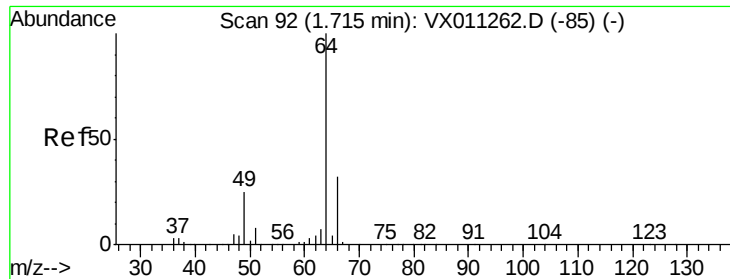
96 53.3 74.6 112.0#



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: 1.92 min Scan# 126

Delta R.T. 0.21 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

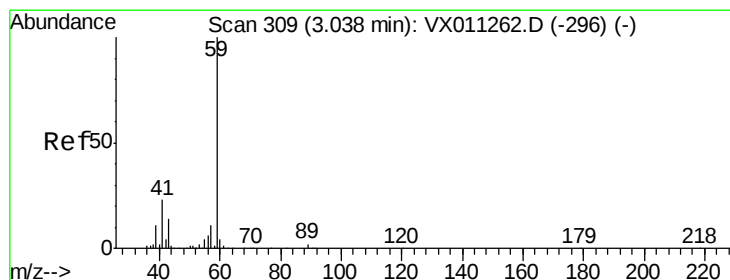
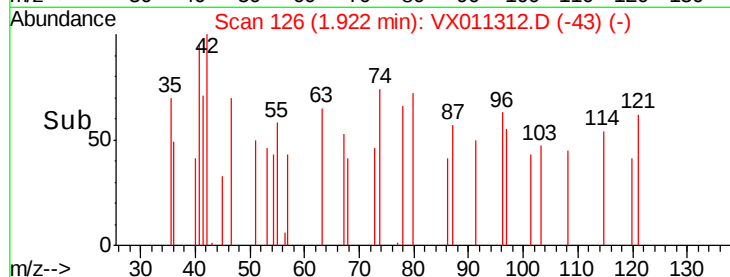
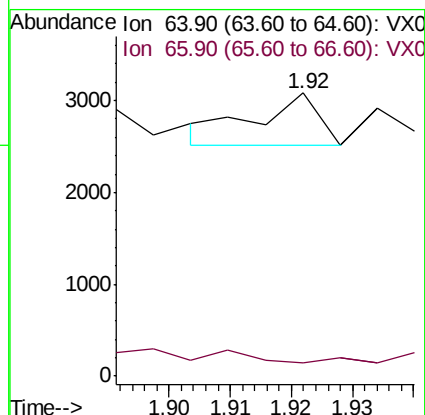
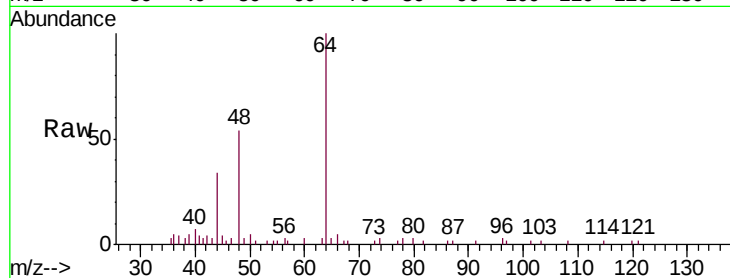
Z3-0687

Tgt Ion: 64 Resp: 399

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 3.438 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011312.D

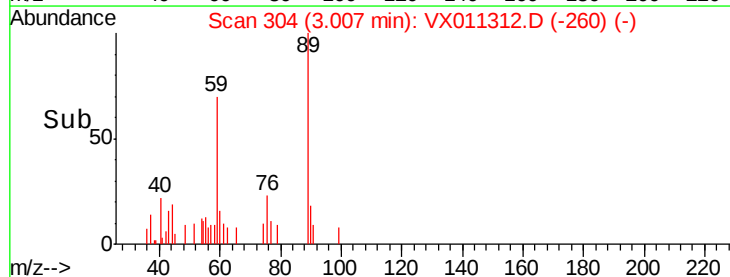
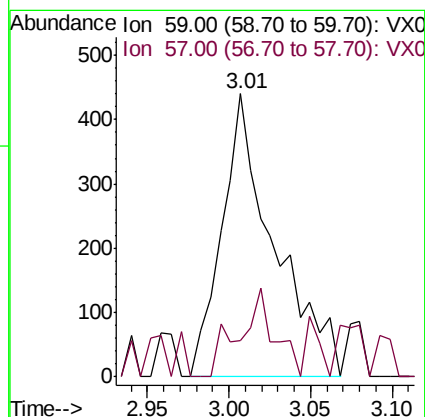
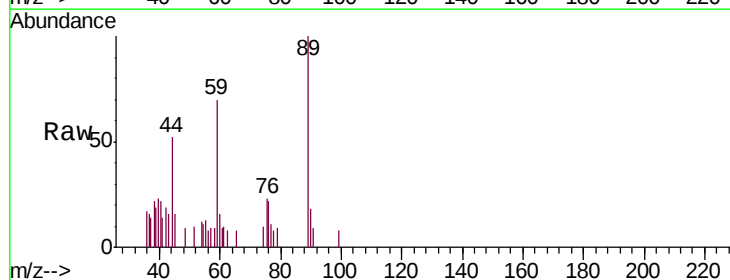
Acq: 02 Aug 2019 18:04

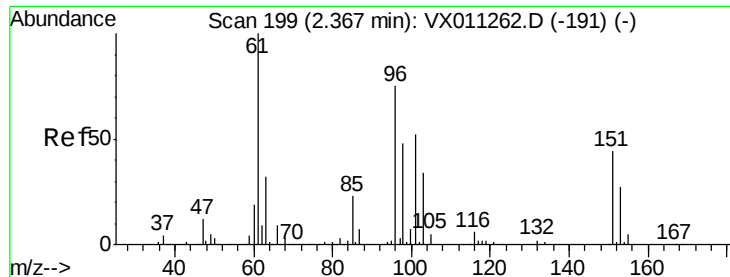
Tgt Ion: 59 Resp: 983

Ion Ratio Lower Upper

59 100

57 21.4 8.3 12.5#

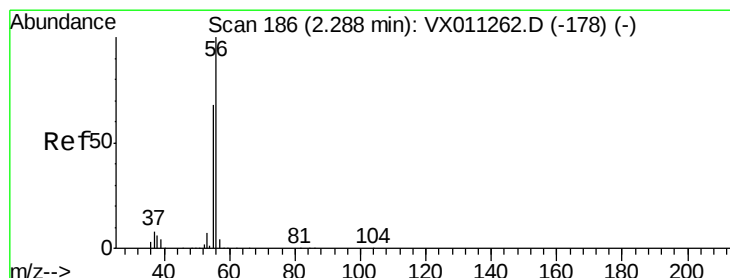
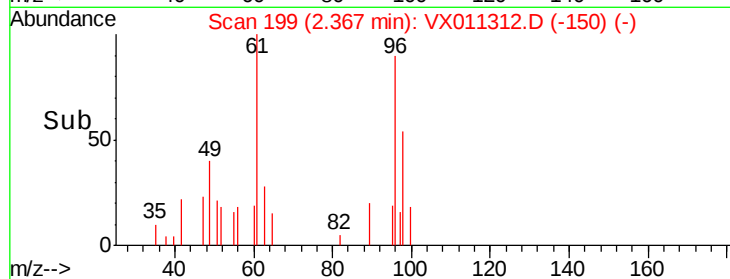
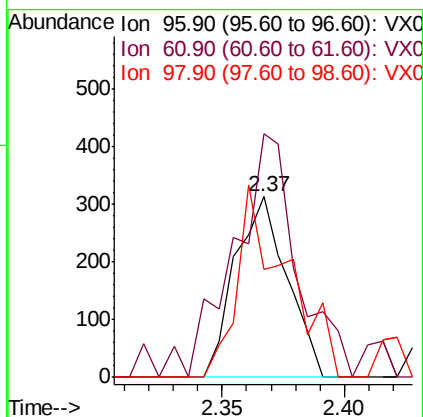
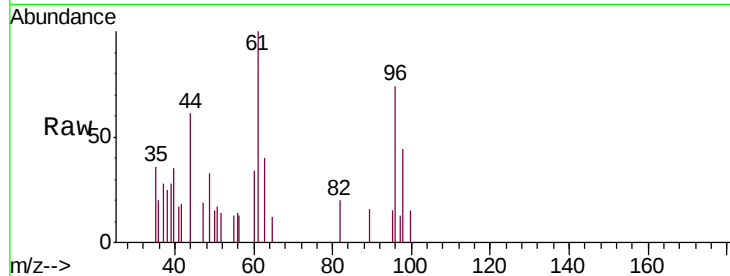




#12
 1,1-Dichloroethene
 Concen: 0.357 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.00 min
 Lab File: VX011312.D
 Acq: 02 Aug 2019 18:04

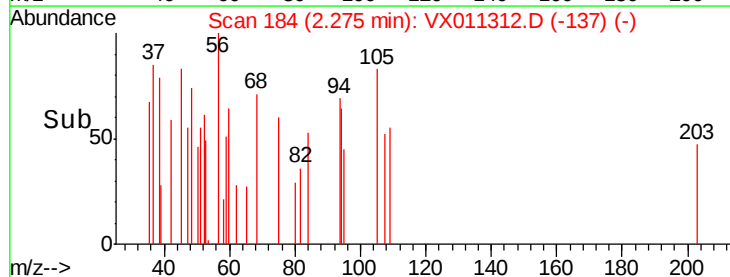
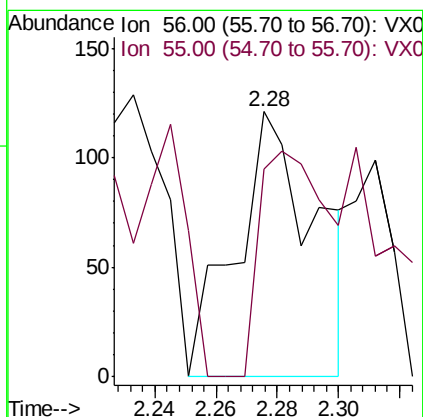
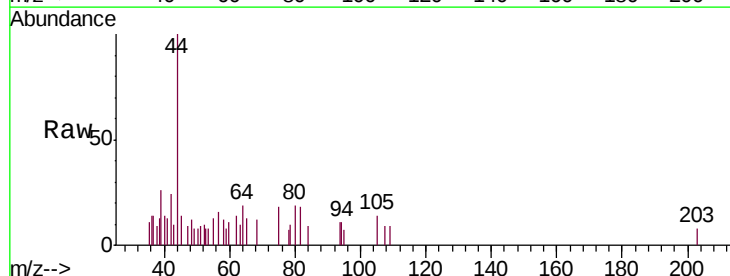
Instrument :
 MSVOA_N
 ClientSampled :
 Z3-0687

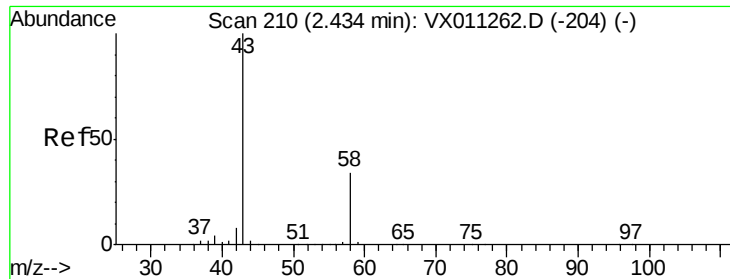
Tgt Ion: 96 Resp: 466
 Ion Ratio Lower Upper
 96 100
 61 135.1 106.2 159.2
 98 59.7 50.6 75.8



#13
 Acrolein
 Concen: 0.792 ug/l
 RT: 2.28 min Scan# 184
 Delta R.T. -0.01 min
 Lab File: VX011312.D
 Acq: 02 Aug 2019 18:04

Tgt Ion: 56 Resp: 217
 Ion Ratio Lower Upper
 56 100
 55 75.1 56.0 84.0





#16

Acetone

Concen: 2.879 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

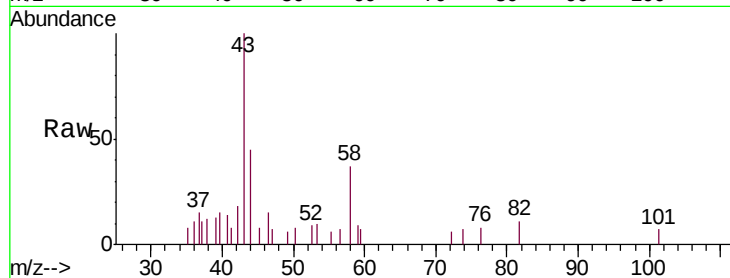
Z3-0687

Tgt Ion: 43 Resp: 1978

Ion Ratio Lower Upper

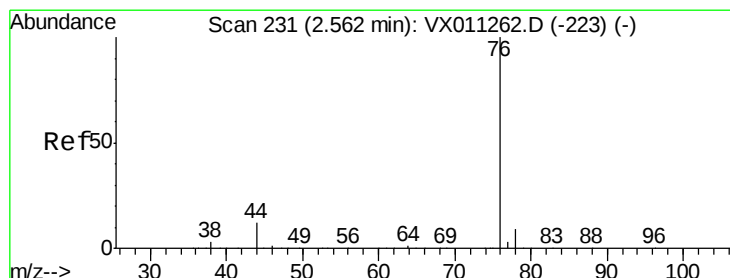
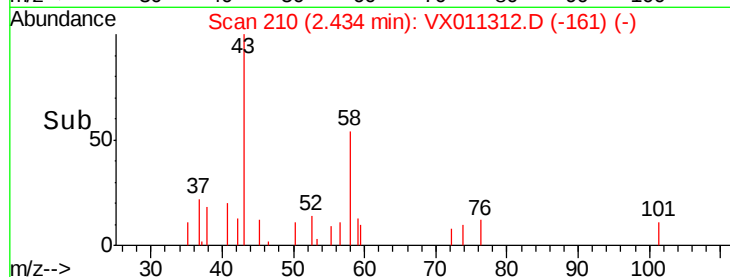
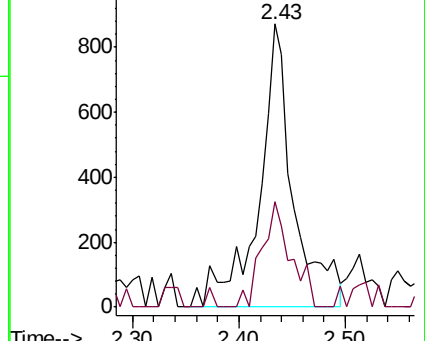
43 100

58 37.0 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.340 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011312.D

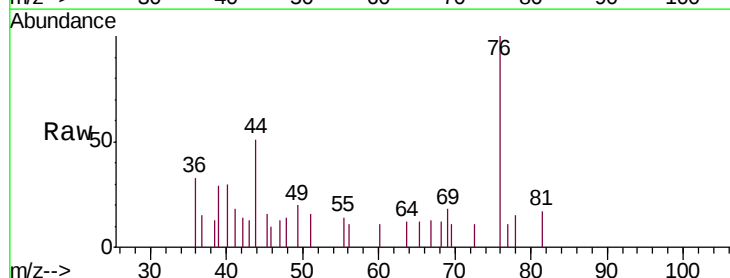
Acq: 02 Aug 2019 18:04

Tgt Ion: 76 Resp: 1040

Ion Ratio Lower Upper

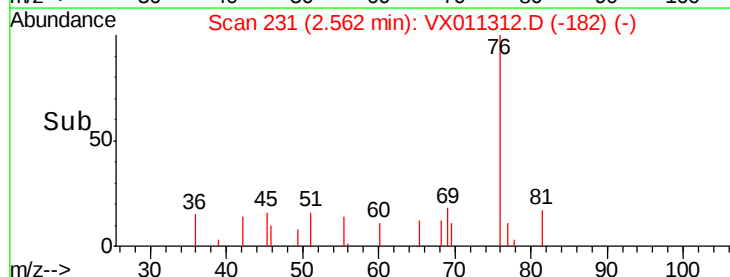
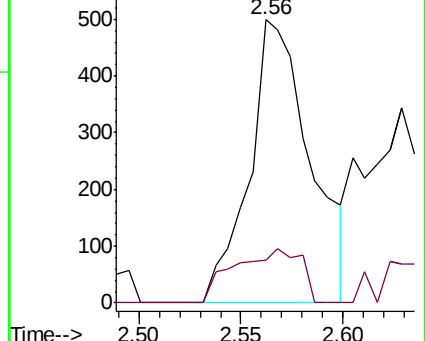
76 100

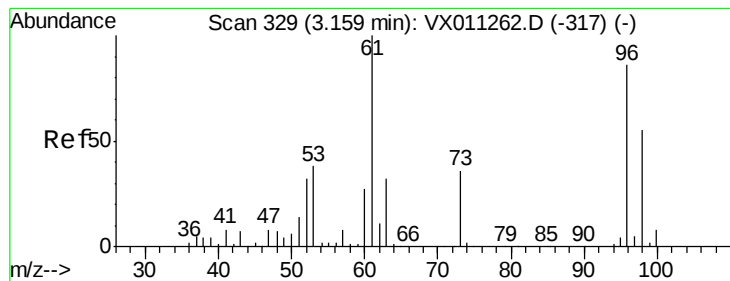
78 15.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 14.124 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.00 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

Z3-0687

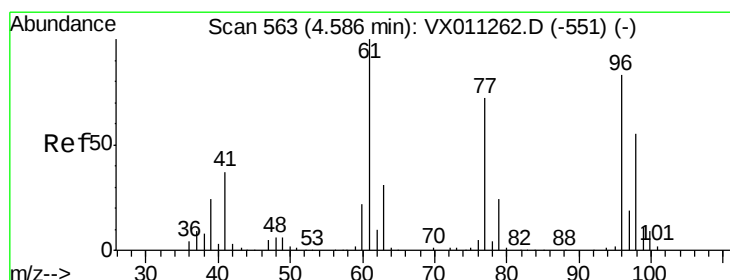
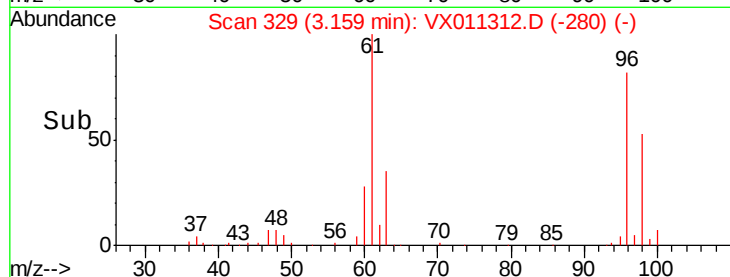
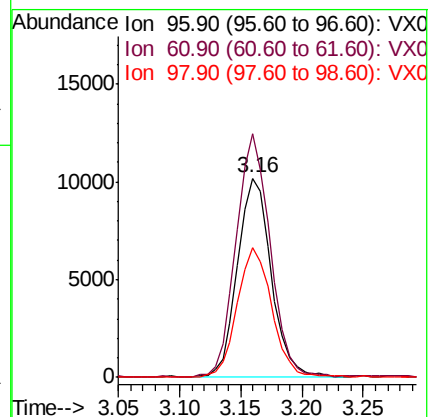
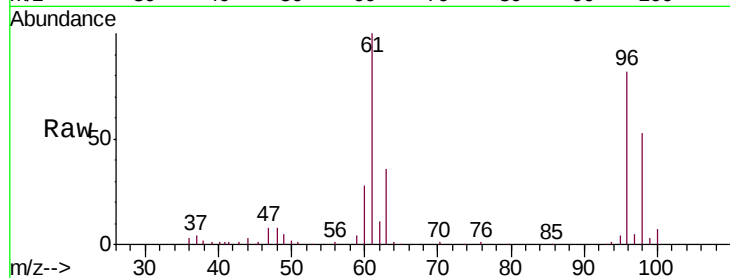
Tgt Ion: 96 Resp: 19483

Ion Ratio Lower Upper

96 100

61 122.3 92.8 139.2

98 65.1 51.2 76.8



#27

cis-1,2-Dichloroethene

Concen: 93.689 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

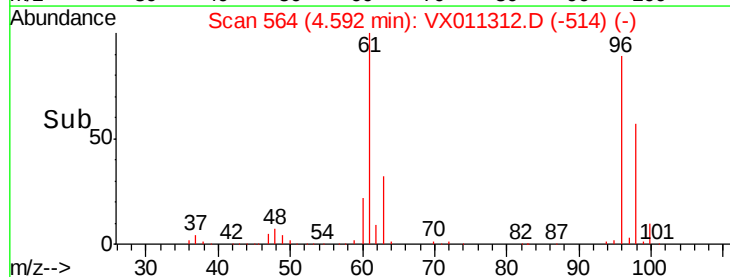
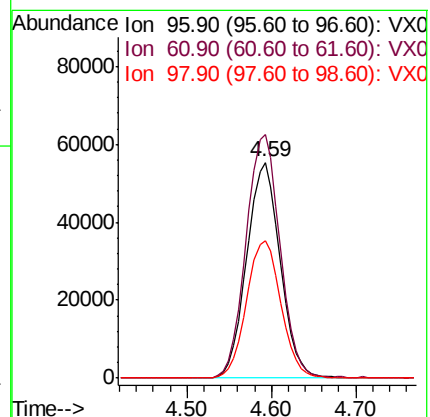
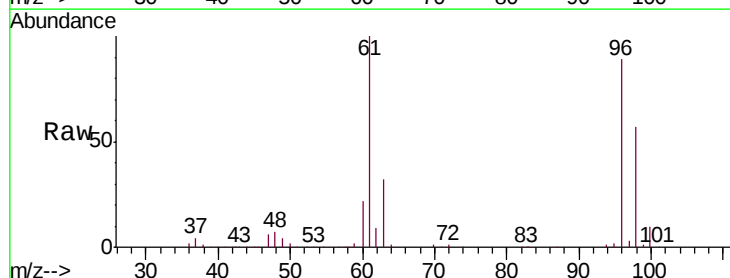
Tgt Ion: 96 Resp: 148855

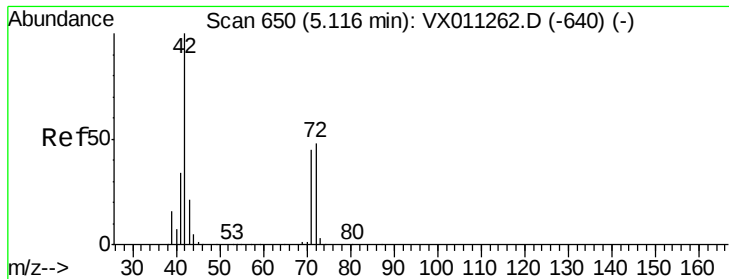
Ion Ratio Lower Upper

96 100

61 115.0 0.0 260.2

98 65.8 0.0 133.2





#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 5.12 min Scan# 650

Delta R.T. -0.00 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

Z3-0687

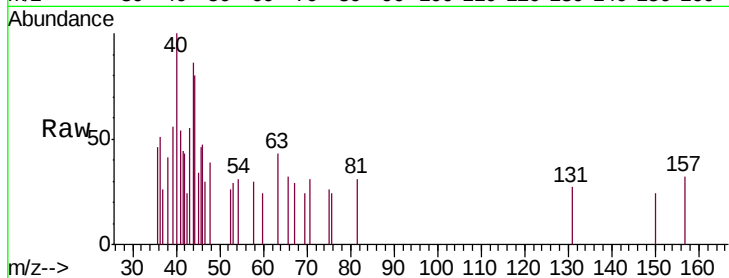
Tgt Ion: 42 Resp: 157

Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

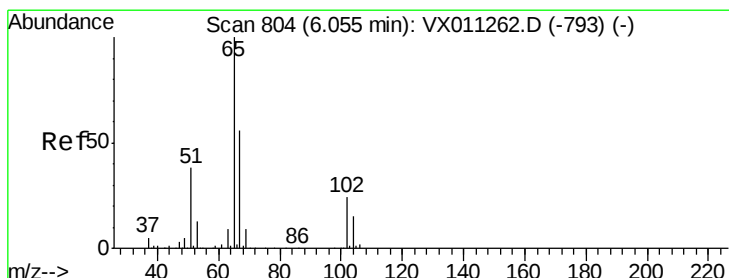
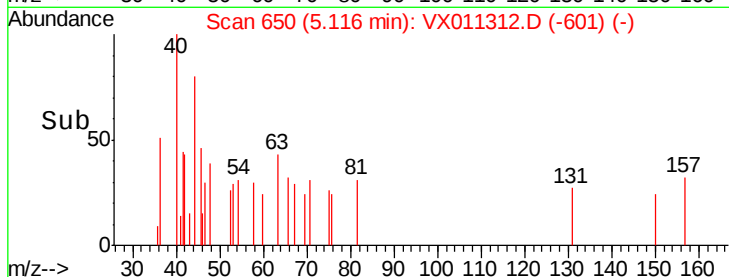
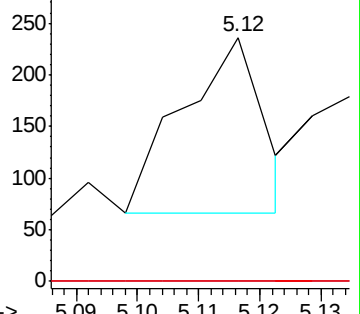
71 0.0 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.847 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011312.D

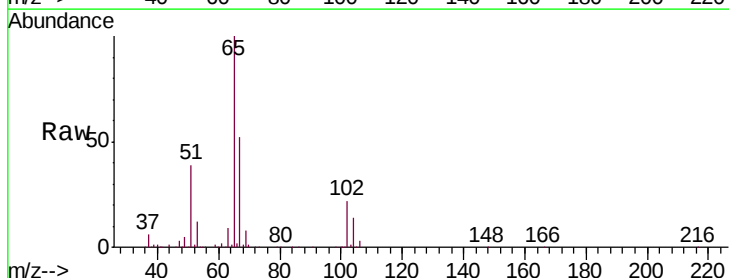
Acq: 02 Aug 2019 18:04

Tgt Ion: 65 Resp: 76275

Ion Ratio Lower Upper

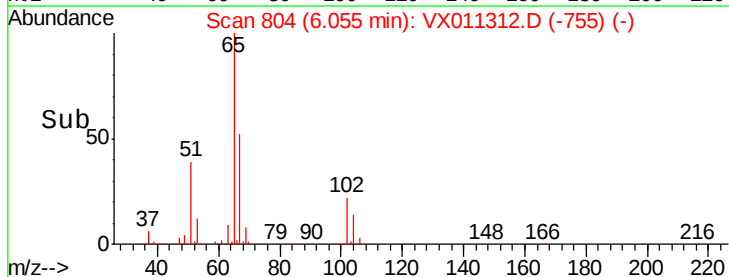
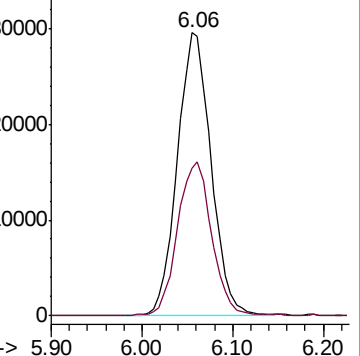
65 100

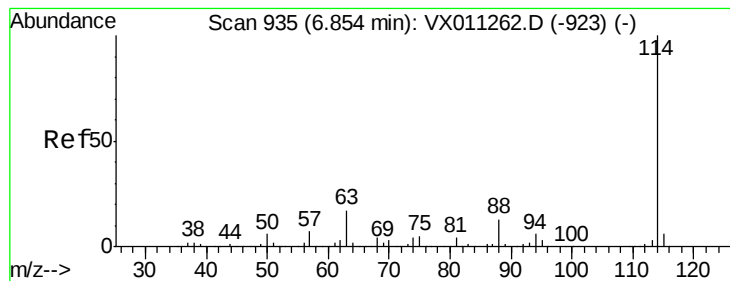
67 55.3 0.0 110.6



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: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

Z3-0687

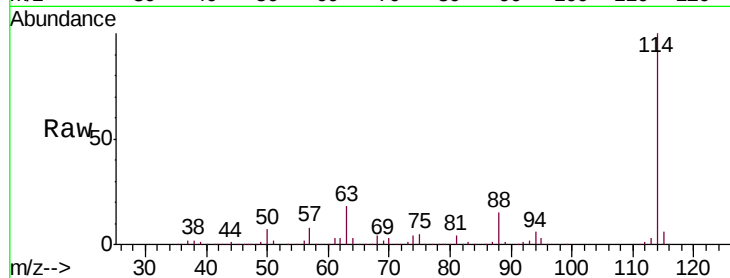
Tgt Ion:114 Resp: 231264

Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.0

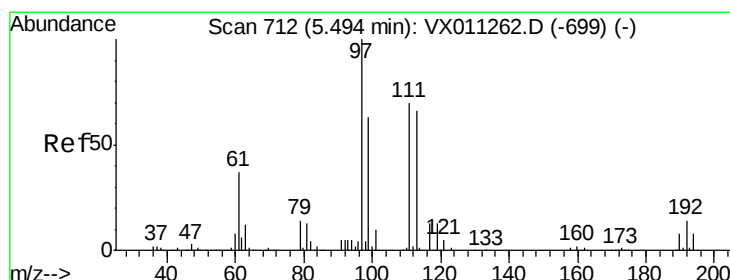
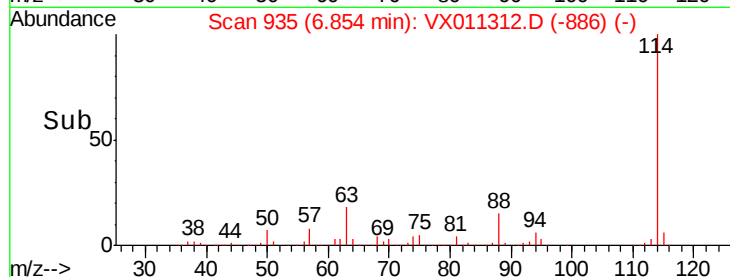
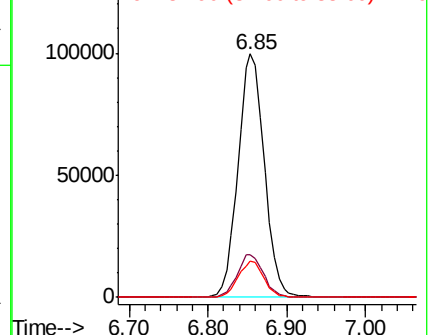
88 14.8 0.0 26.4



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: 48.475 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

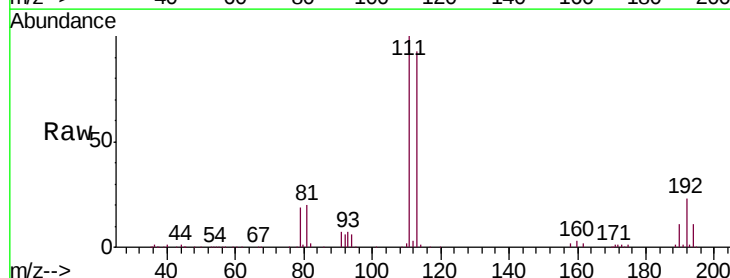
Tgt Ion:113 Resp: 73191

Ion Ratio Lower Upper

113 100

111 103.7 81.9 122.9

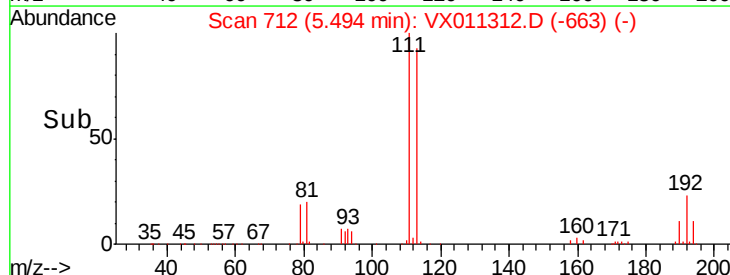
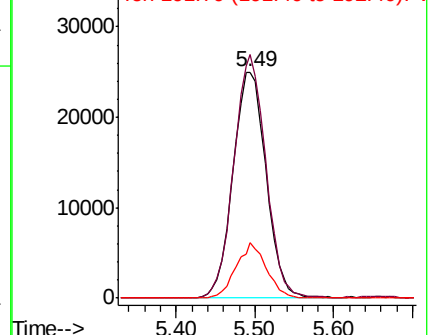
192 22.2 17.8 26.8

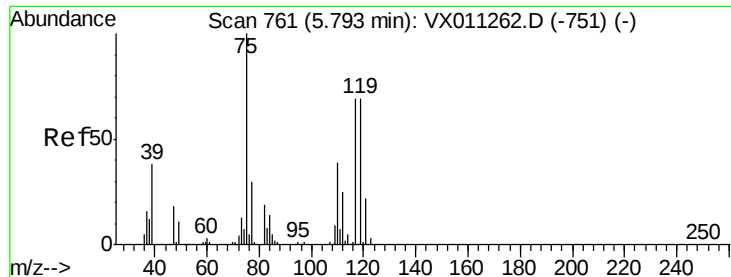


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.755 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

Z3-0687

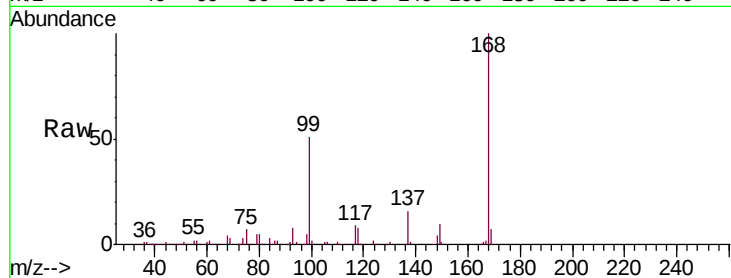
Tgt Ion: 75 Resp: 9602

Ion Ratio Lower Upper

75 100

110 10.6 20.0 59.9#

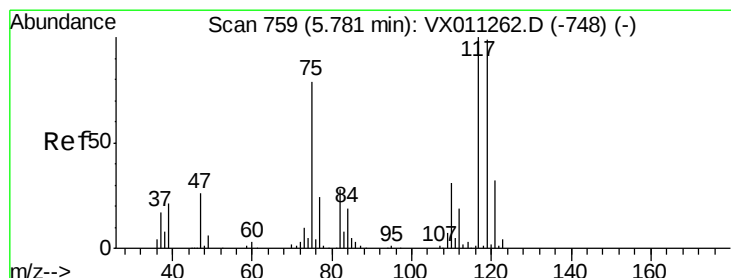
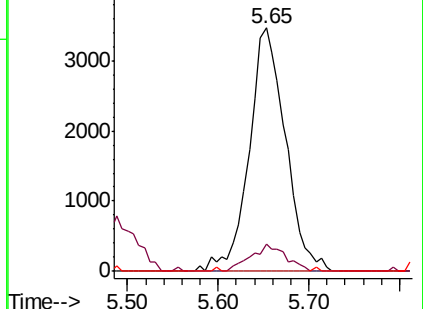
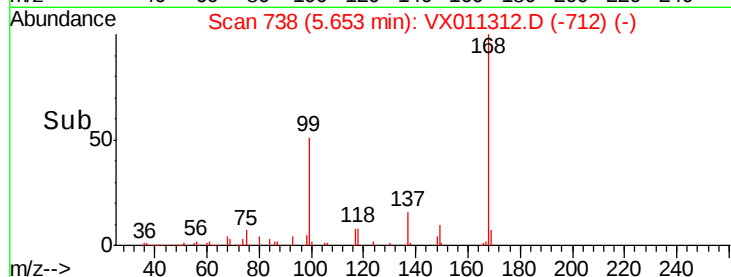
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX011312.D (-712) (-)

Ion 109.90 (109.60 to 110.60): VX011312.D (-712) (-)

Ion 76.90 (76.60 to 77.60): VX011312.D (-712) (-)



#38

Carbon Tetrachloride

Concen: 6.363 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

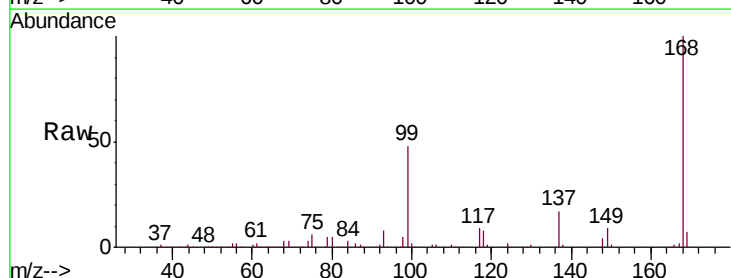
Tgt Ion: 117 Resp: 12925

Ion Ratio Lower Upper

117 100

119 6.0 79.0 118.4#

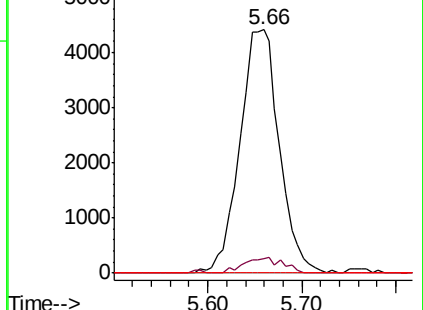
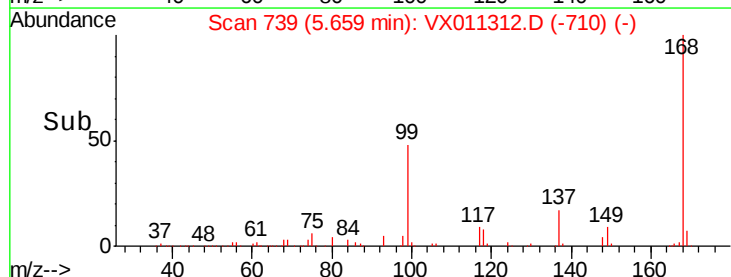
121 0.0 25.9 38.9#

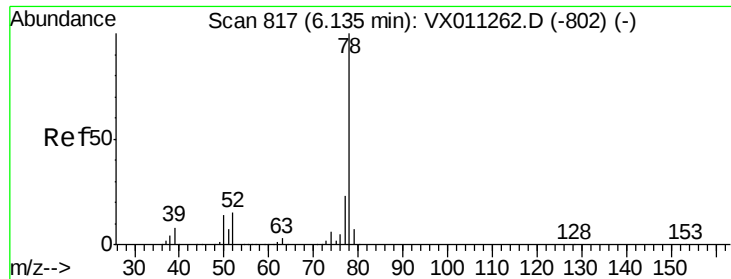


Abundance Ion 116.80 (116.50 to 117.50): VX011312.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX011312.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX011312.D (-710) (-)





#40

Benzene

Concen: 0.838 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

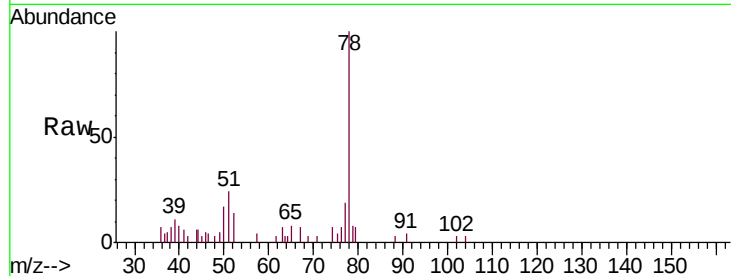
Z3-0687

Tgt Ion: 78 Resp: 5051

Ion Ratio Lower Upper

78 100

77 19.3 18.2 27.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

1500

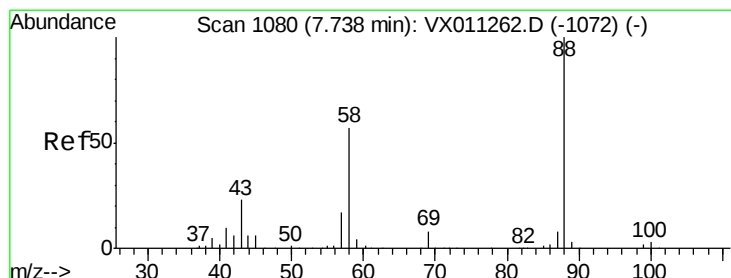
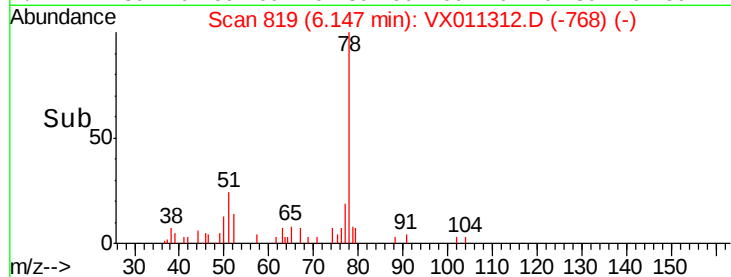
1000

500

0

6.05 6.10 6.15 6.20 6.25

Time-->



#49

1,4-Dioxane

Concen: 0.430 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

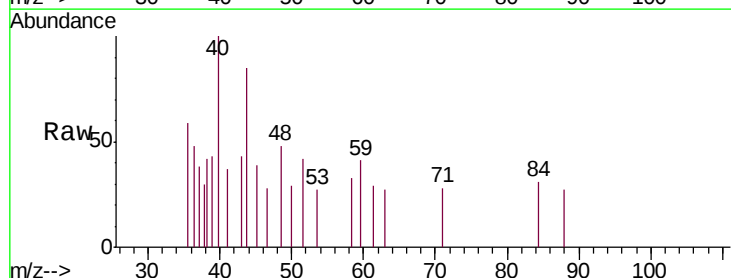
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 647.4 22.2 33.2#

58 273.7 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

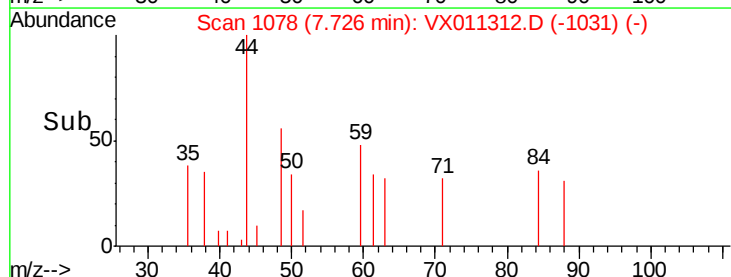
100

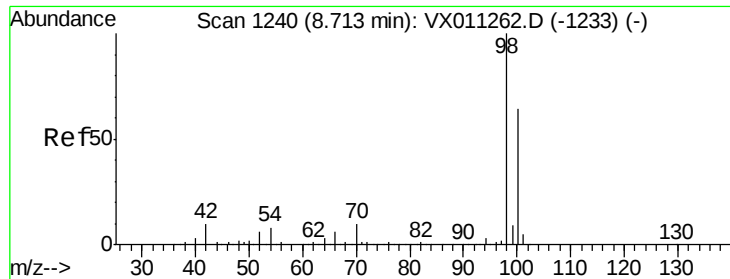
50

0

7.71 7.72 7.73 7.74

Time-->





#50

Toluene-d8

Concen: 49.385 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011312.D

Acq: 02 Aug 2019 18:04

Instrument :

MSVOA_N

ClientSampled :

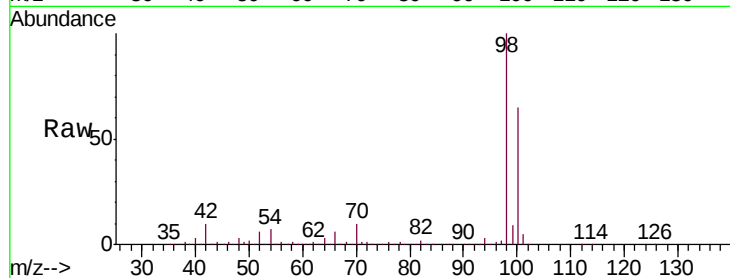
Z3-0687

Tgt Ion: 98 Resp: 281459

Ion Ratio Lower Upper

98 100

100 63.1 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

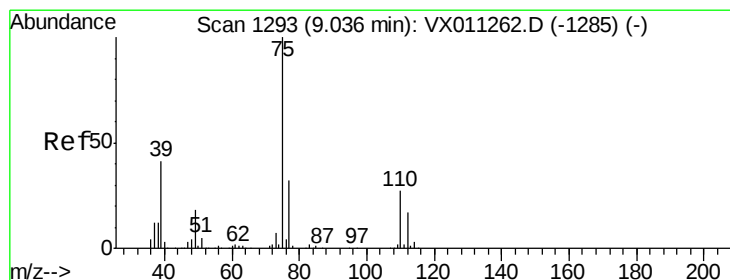
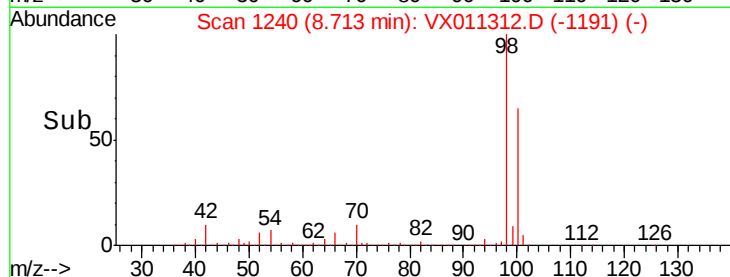
150000

100000

50000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.847 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.02 min

Lab File: VX011312.D

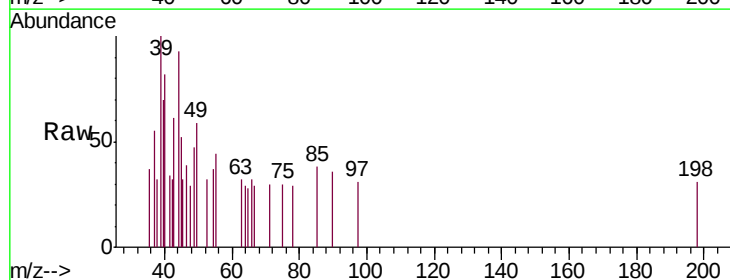
Acq: 02 Aug 2019 18:04

Tgt Ion: 75 Resp: 20

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

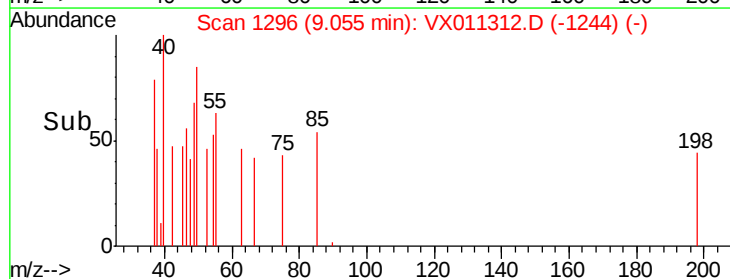
60

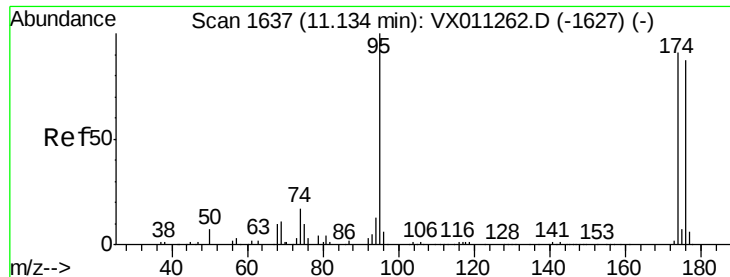
40

20

0

Time-->

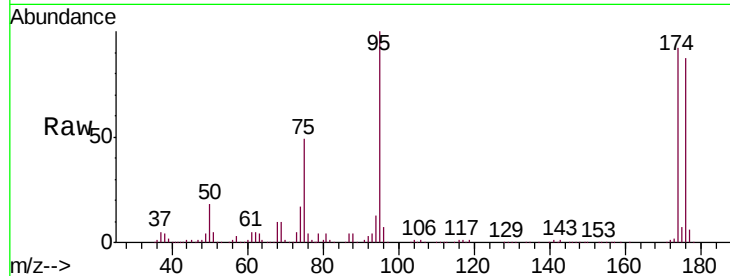




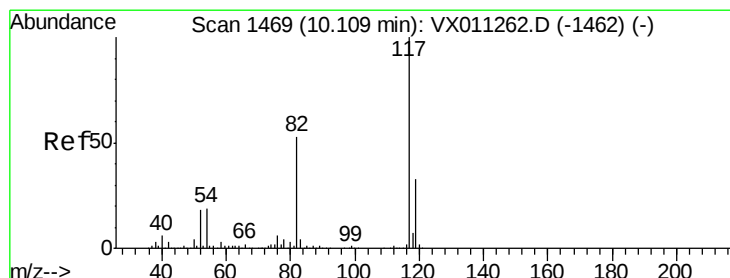
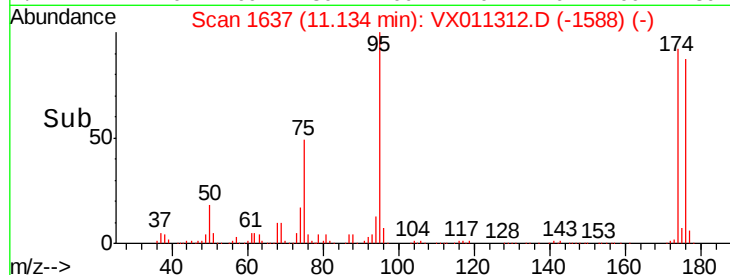
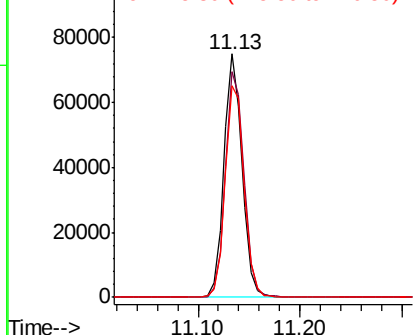
#62
4-Bromofluorobenzene
Concen: 45.277 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011312.D
Acq: 02 Aug 2019 18:04

Instrument :
MSVOA_N
ClientSampleId :
Z3-0687

Tgt Ion: 95 Resp: 92130
Ion Ratio Lower Upper
95 100
174 94.9 0.0 191.2
176 90.8 0.0 184.8

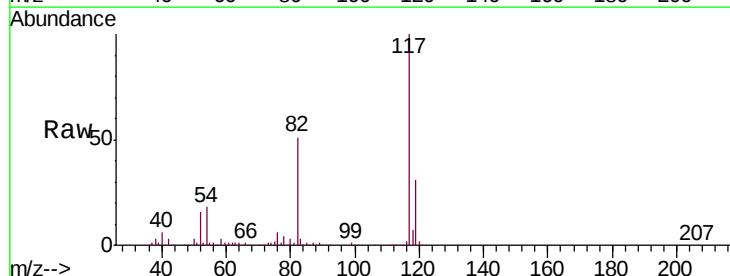


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

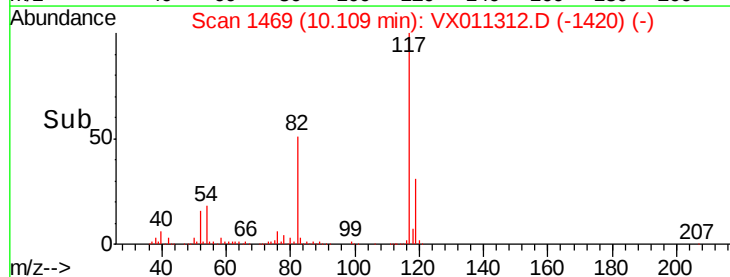
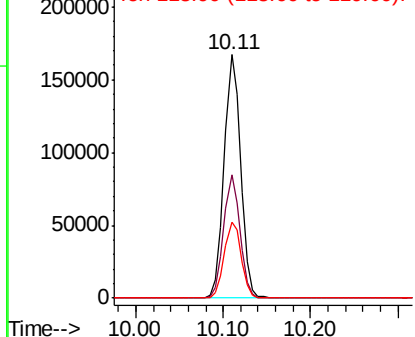


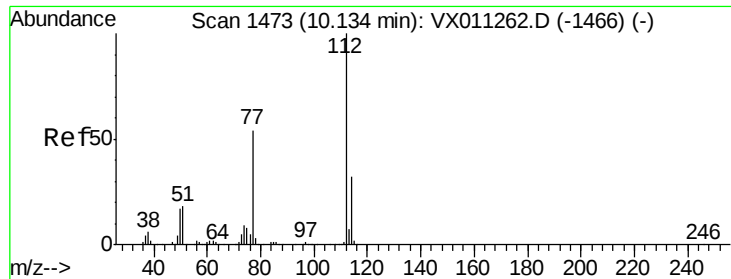
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011312.D
Acq: 02 Aug 2019 18:04

Tgt Ion: 117 Resp: 217700
Ion Ratio Lower Upper
117 100
82 50.7 42.2 63.2
119 31.2 26.6 39.8



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

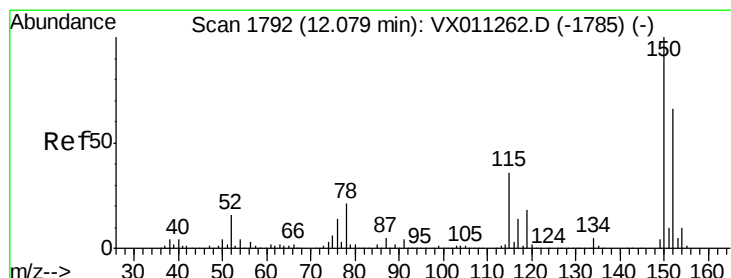
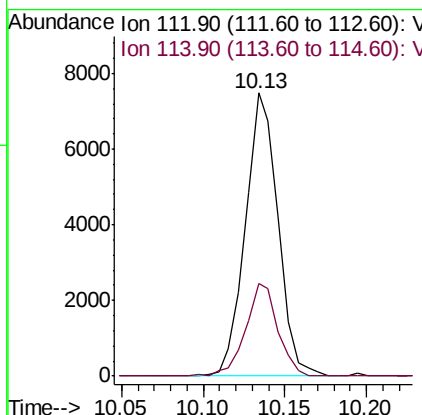
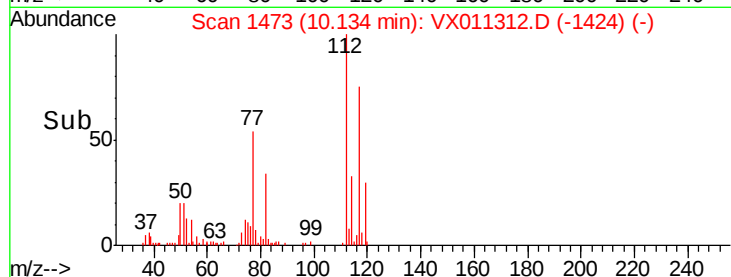
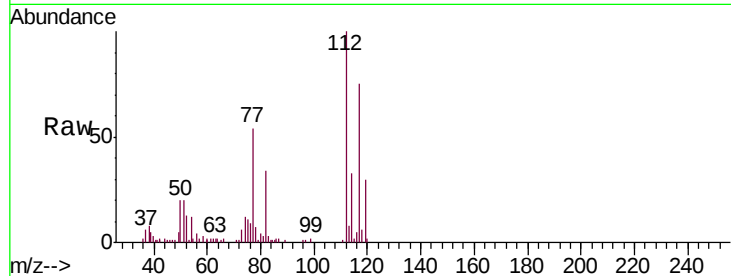




#65
Chlorobenzene
Concen: 2.239 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX011312.D
Acq: 02 Aug 2019 18:04

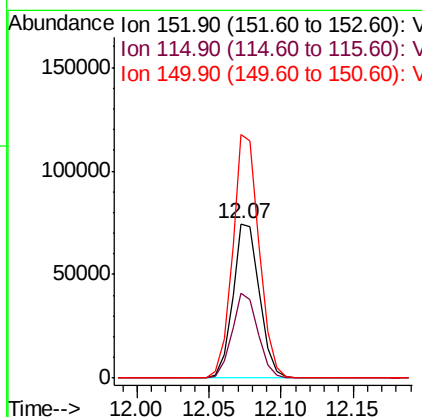
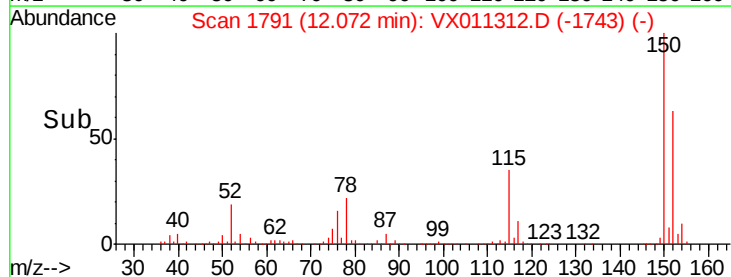
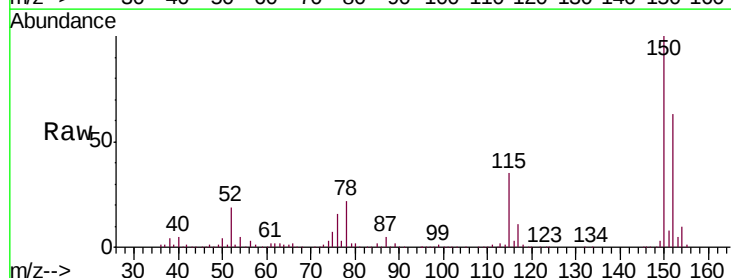
Instrument :
MSVOA_N
ClientSampleId :
Z3-0687

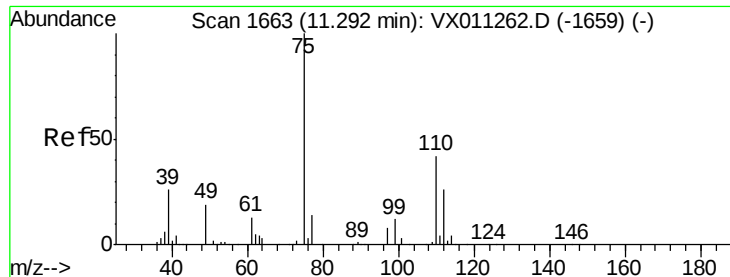
Tgt Ion:112 Resp: 10452
Ion Ratio Lower Upper
112 100
114 32.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011312.D
Acq: 02 Aug 2019 18:04

Tgt Ion:152 Resp: 96553
Ion Ratio Lower Upper
152 100
115 53.7 40.0 119.9
150 156.2 0.0 350.4

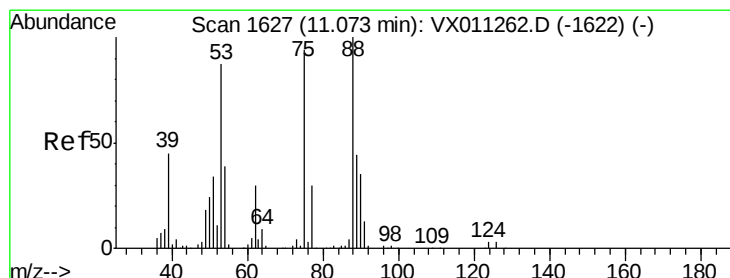
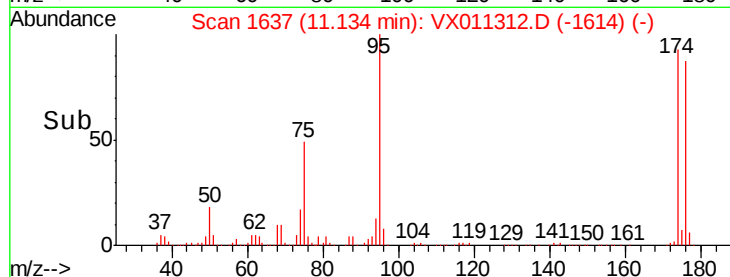
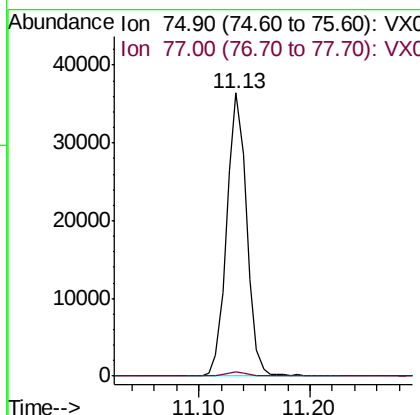
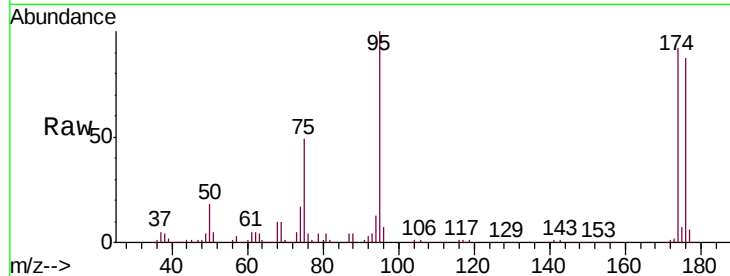




#76
 1,2,3-Trichloropropane
 Concen: 25.635 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011312.D
 Acq: 02 Aug 2019 18:04

Instrument :
 MSVOA_N
 ClientSampleId :
 Z3-0687

Tgt Ion: 75 Resp: 45076
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.783 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011312.D
 Acq: 02 Aug 2019 18:04

Tgt Ion: 75 Resp: 45076
 Ion Ratio Lower Upper
 75 100
 53 0.2 78.2 117.4#
 89 0.2 37.9 56.9#

