

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011486.D
 Acq On : 12 Aug 2019 16:16
 Operator : JC/SP
 Sample : K4278-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0695

Quant Time: Aug 13 07:40:17 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	5.66	168	182518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	276584	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	111284	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	102429	55.73	ug/l	0.00
Spiked Amount			Recovery	=	111.46%	
35) Dibromofluoromethane	5.49	113	84795	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	8.71	98	324262	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
62) 4-Bromofluorobenzene	11.13	95	106177	43.63	ug/l	0.00
Spiked Amount			Recovery	=	87.26%	

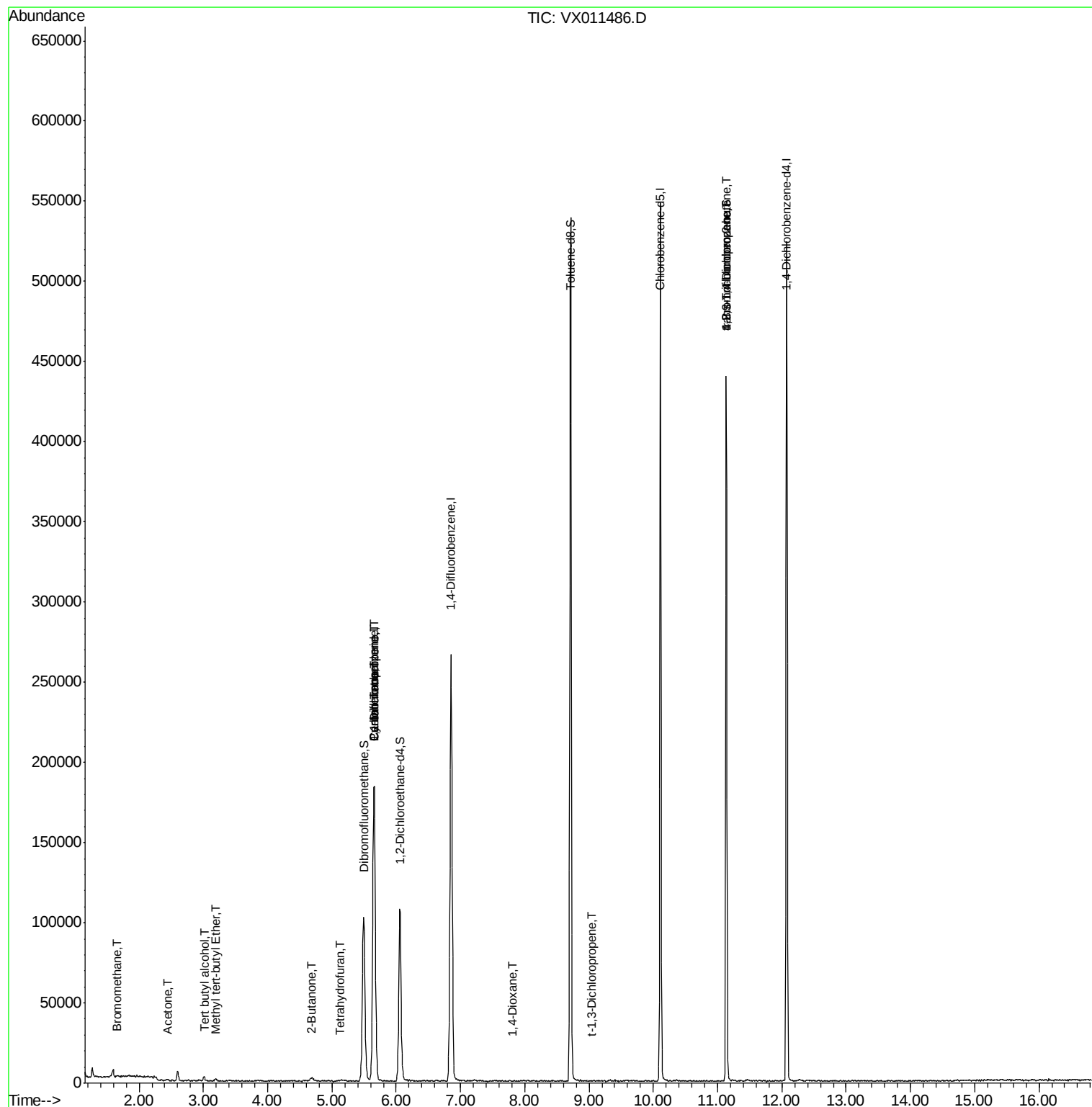
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	485	0.391	ug/l #	74
6) Chloroethane	1.72	64	106	Below Cal	#	41
11) Tert butyl alcohol	3.01	59	1475	4.047	ug/l #	83
13) Acrolein	2.26	56	74	Below Cal	#	15
16) Acetone	2.44	43	1303	1.489	ug/l	98
19) Methyl tert-butyl Ether	3.19	73	1154	0.236	ug/l #	71
25) 2-Butanone	4.68	43	300	0.241	ug/l #	46
29) Tetrahydrofuran	5.13	42	246	0.322	ug/l #	29
31) Cyclohexane	5.65	56	4043	1.708	ug/l #	36
36) 1,1-Dichloropropene	5.65	75	12817	5.308	ug/l #	44
38) Carbon Tetrachloride	5.65	117	18185	7.485	ug/l #	15
49) 1,4-Dioxane	7.82	88	22	0.416	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	22	2.846	ug/l #	43
76) 1,2,3-Trichloropropane	11.13	75	54227	26.757	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	54227	69.507	ug/l #	10

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampled :

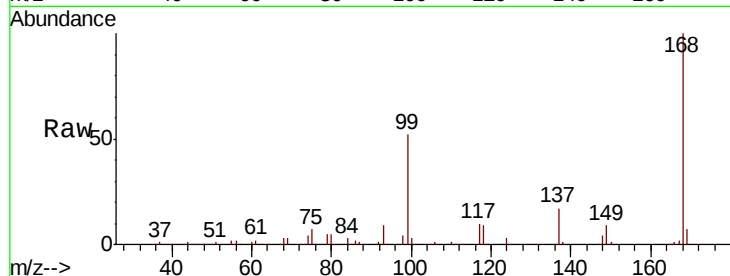
Z3-0695

Tgt Ion:168 Resp: 182518

Ion Ratio Lower Upper

168 100

99 52.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

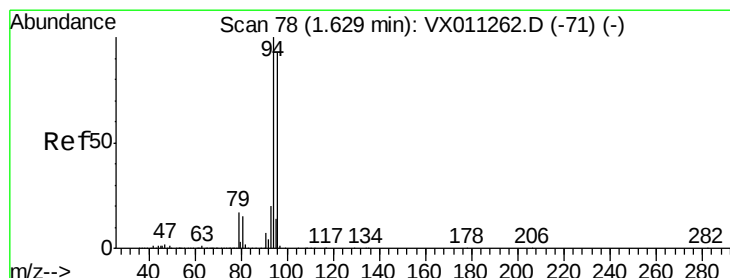
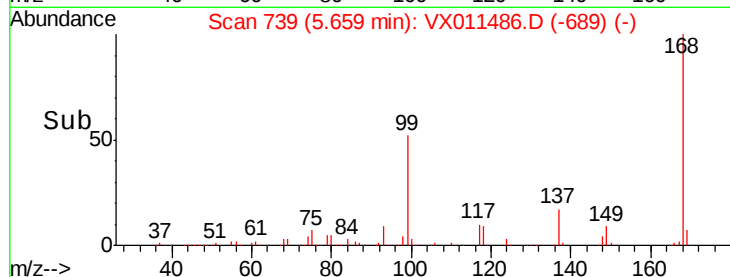
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.391 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011486.D

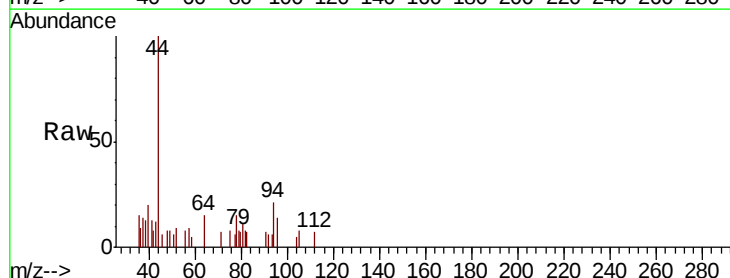
Acq: 12 Aug 2019 16:16

Tgt Ion: 94 Resp: 485

Ion Ratio Lower Upper

94 100

96 68.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

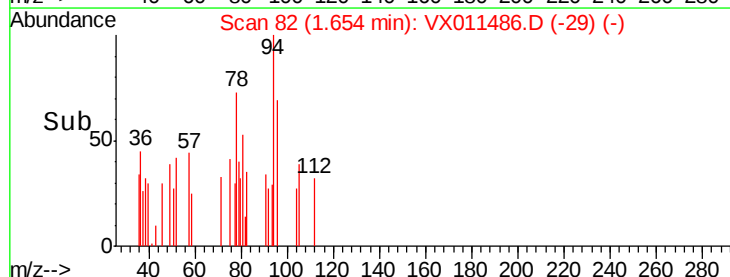
100

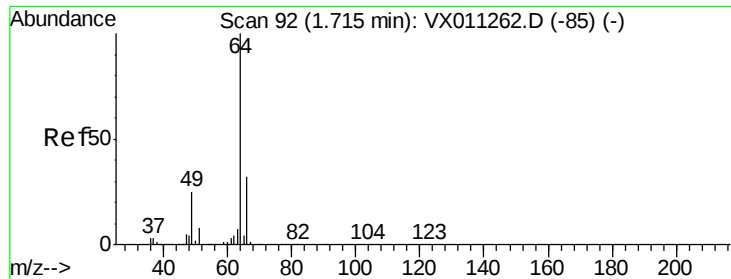
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

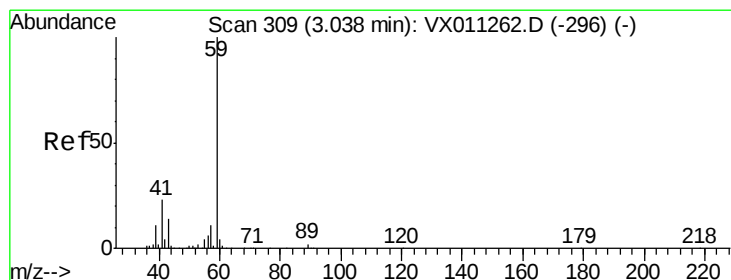
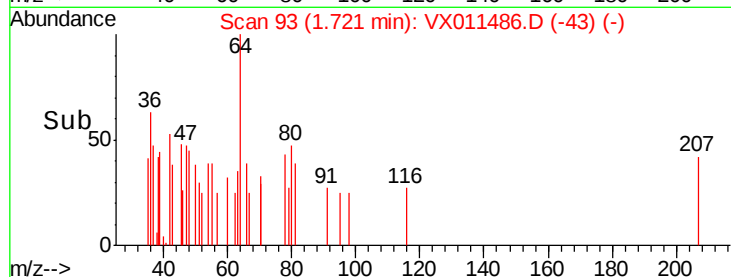
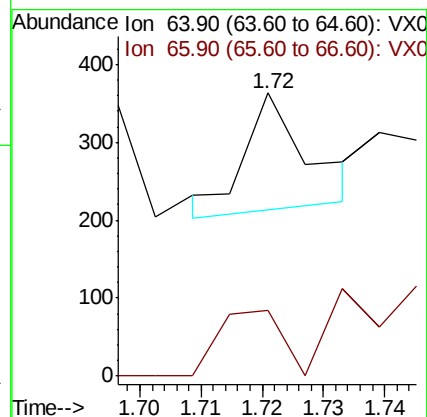
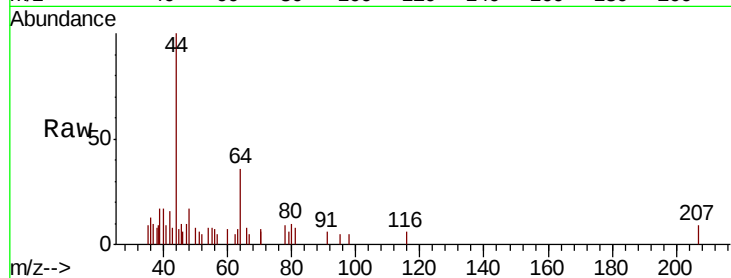
Z3-0695

Tgt Ion: 64 Resp: 106

Ion Ratio Lower Upper

64 100

66 64.1 25.1 37.7#



#11

Tert butyl alcohol

Concen: 4.047 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011486.D

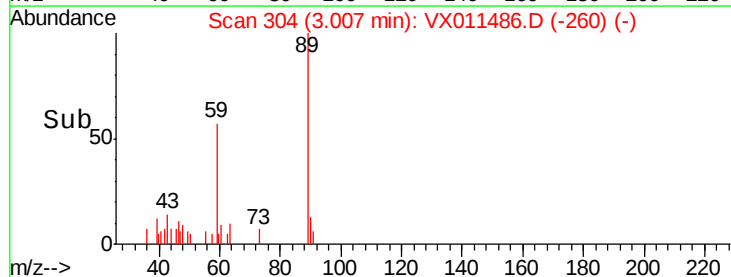
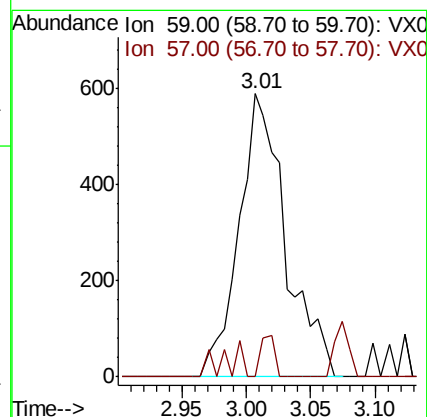
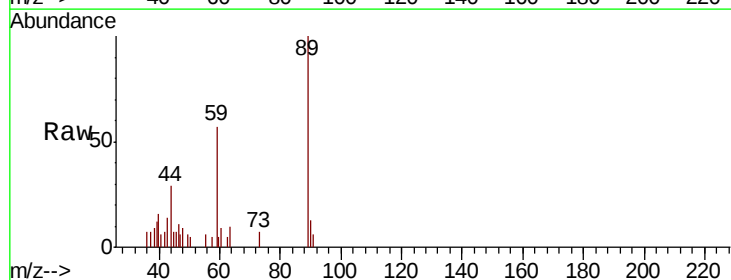
Acq: 12 Aug 2019 16:16

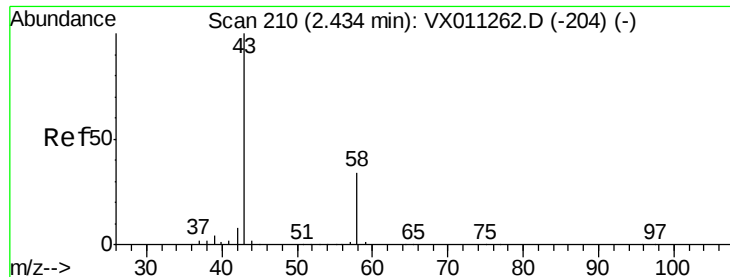
Tgt Ion: 59 Resp: 1475

Ion Ratio Lower Upper

59 100

57 4.1 8.3 12.5#





#16

Acetone

Concen: 1.489 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

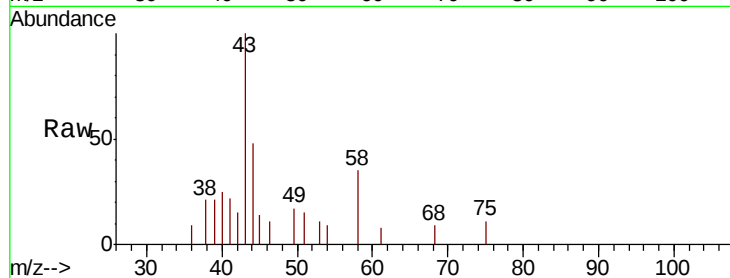
Z3-0695

Tgt Ion: 43 Resp: 1303

Ion Ratio Lower Upper

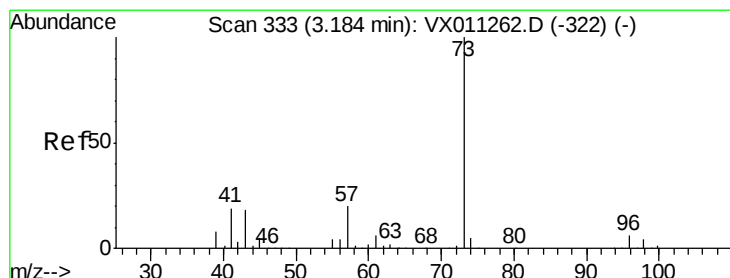
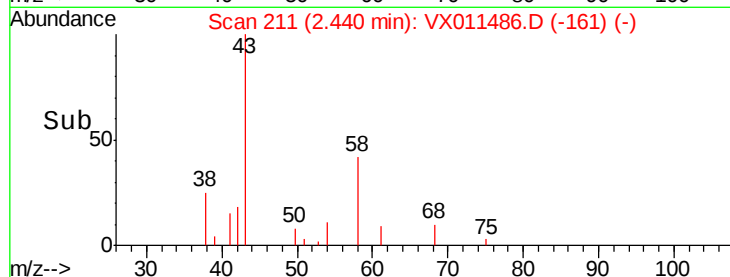
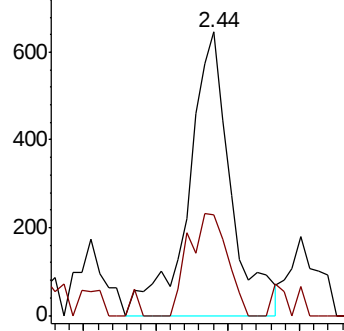
43 100

58 35.3 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#19

Methyl tert-butyl Ether

Concen: 0.236 ug/l

RT: 3.19 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX011486.D

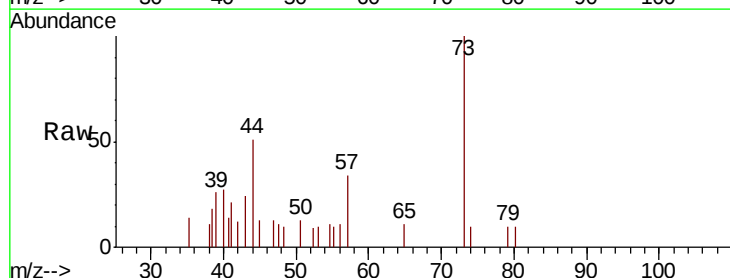
Acq: 12 Aug 2019 16:16

Tgt Ion: 73 Resp: 1154

Ion Ratio Lower Upper

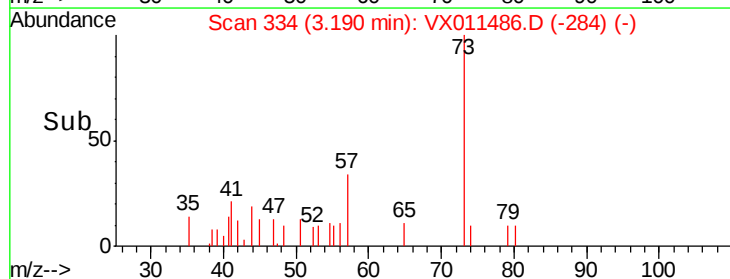
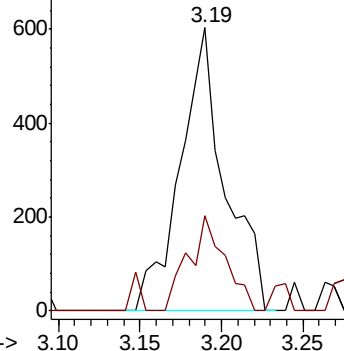
73 100

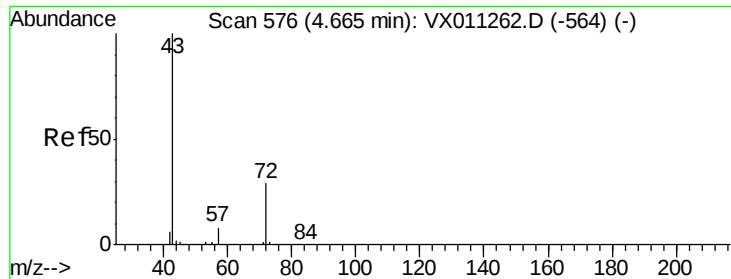
57 33.7 16.2 24.2#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#25

2-Butanone

Concen: 0.241 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampled :

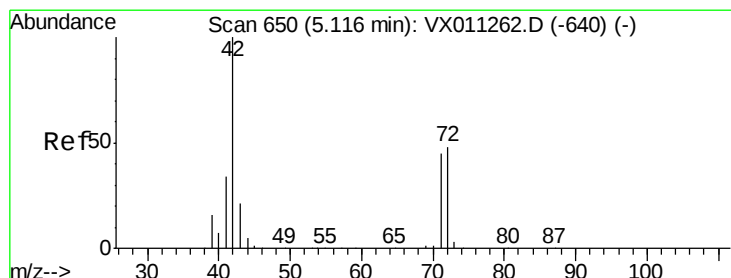
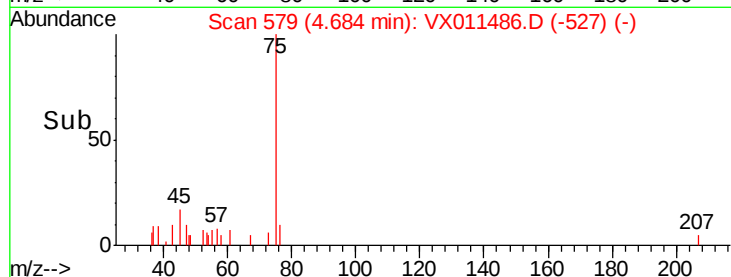
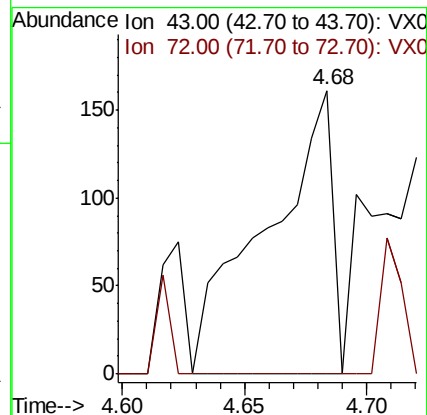
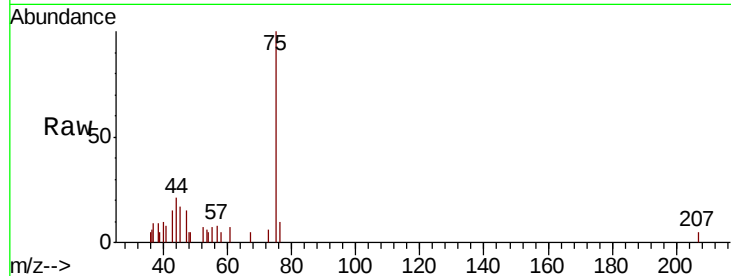
Z3-0695

Tgt Ion: 43 Resp: 300

Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



#29

Tetrahydrofuran

Concen: 0.322 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.01 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

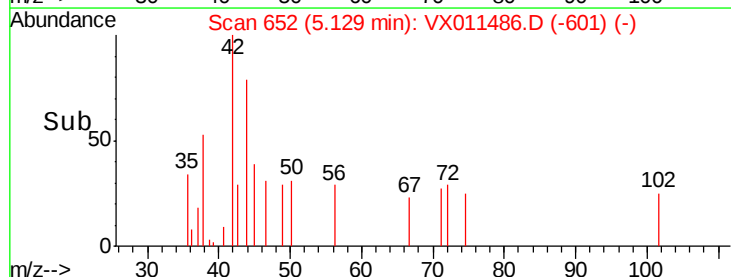
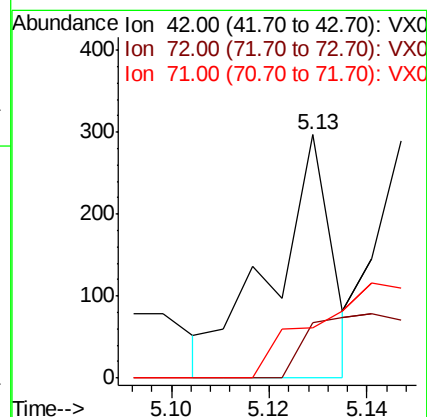
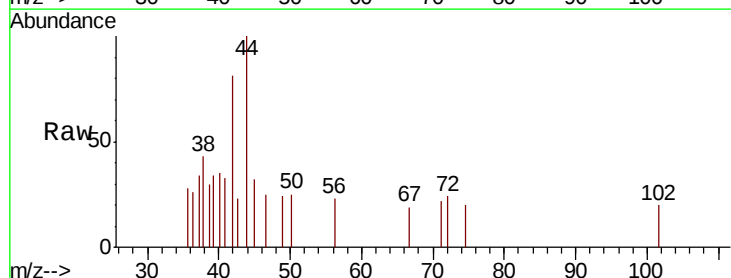
Tgt Ion: 42 Resp: 246

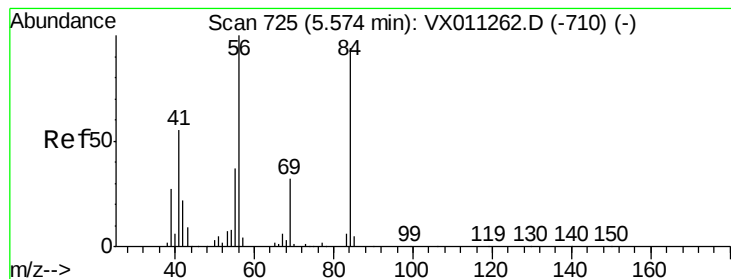
Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

71 0.0 36.9 55.3#





#31

Cyclohexane

Concen: 1.708 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampled :

Z3-0695

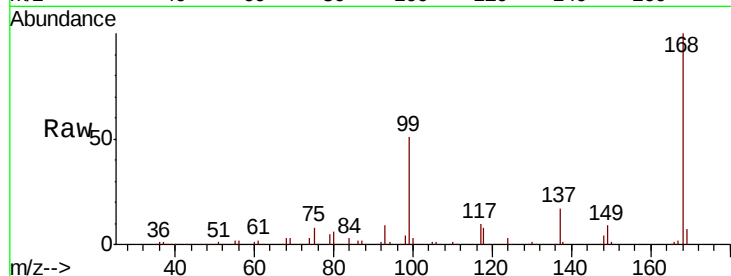
Tgt Ion: 56 Resp: 4043

Ion Ratio Lower Upper

56 100

69 135.9 25.5 38.3#

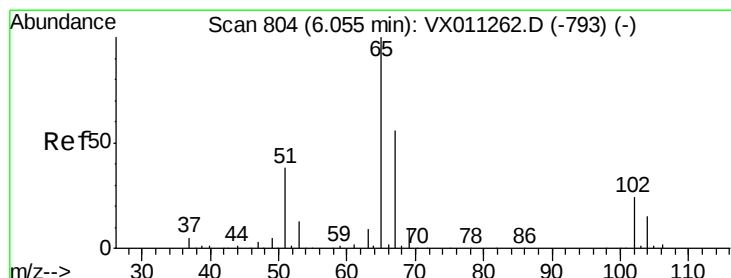
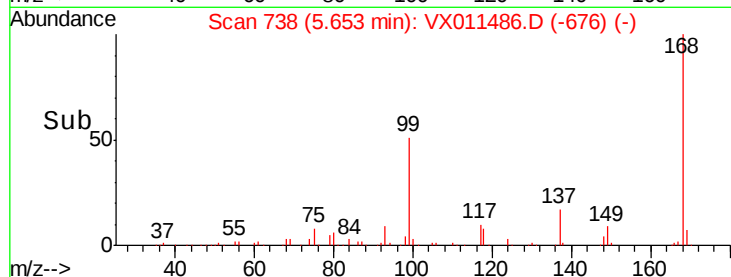
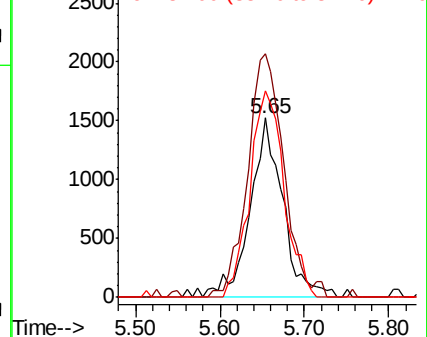
84 115.4 75.0 112.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 55.727 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011486.D

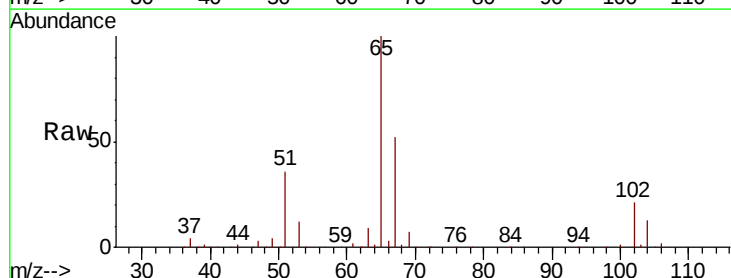
Acq: 12 Aug 2019 16:16

Tgt Ion: 65 Resp: 102429

Ion Ratio Lower Upper

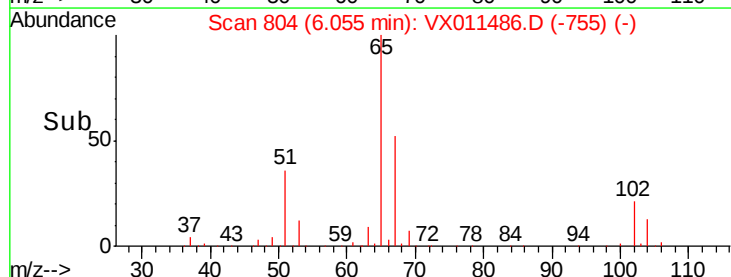
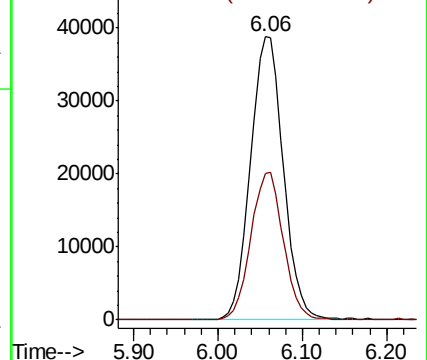
65 100

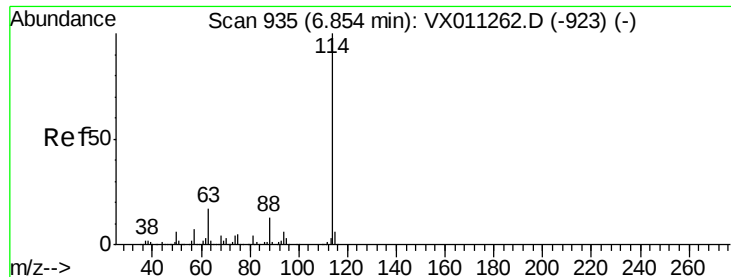
67 51.9 0.0 110.6



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: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

Z3-0695

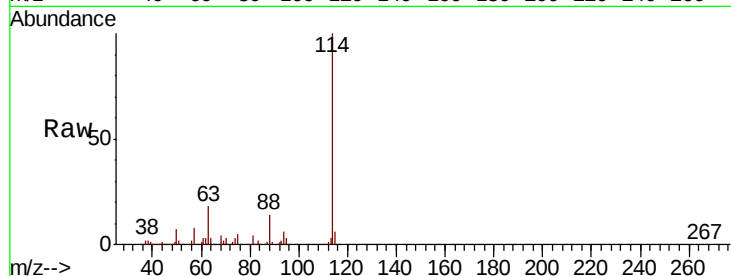
Tgt Ion:114 Resp: 276584

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.0

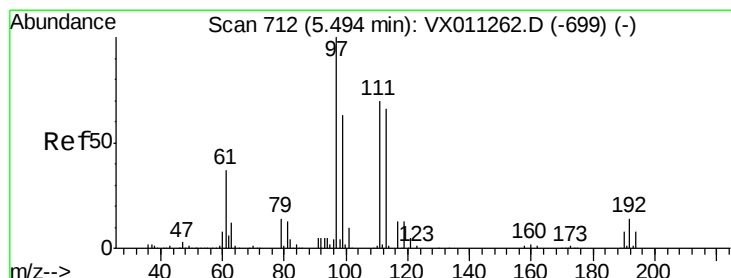
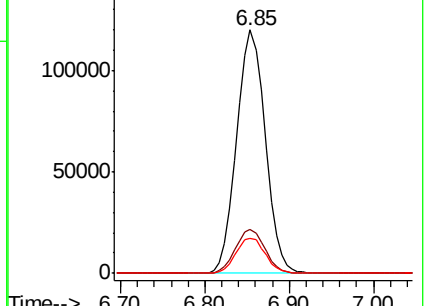
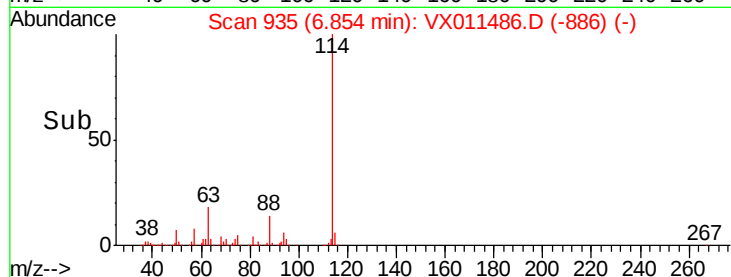
88 14.3 0.0 26.4



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: 46.958 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

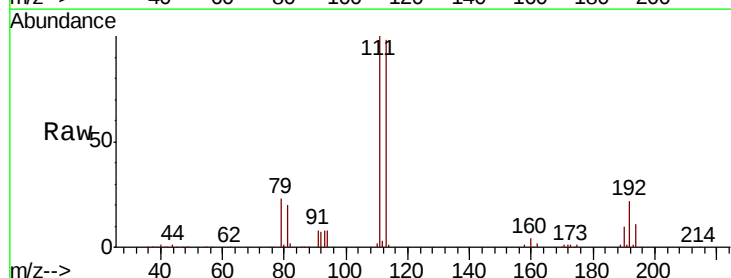
Tgt Ion:113 Resp: 84795

Ion Ratio Lower Upper

113 100

111 101.5 81.9 122.9

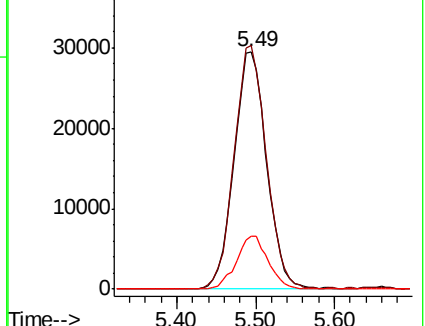
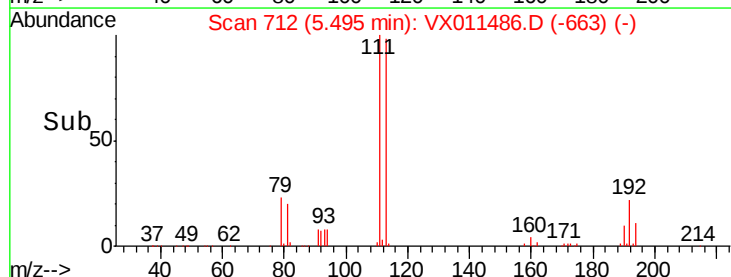
192 21.8 17.8 26.8

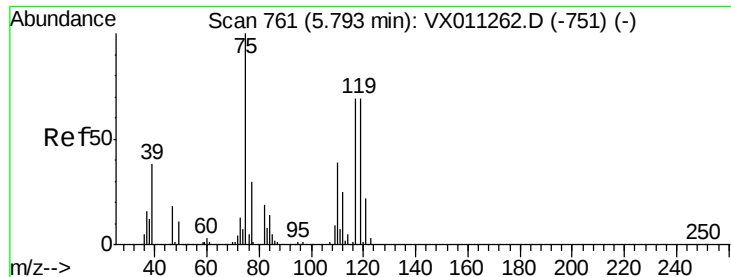


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.308 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

Z3-0695

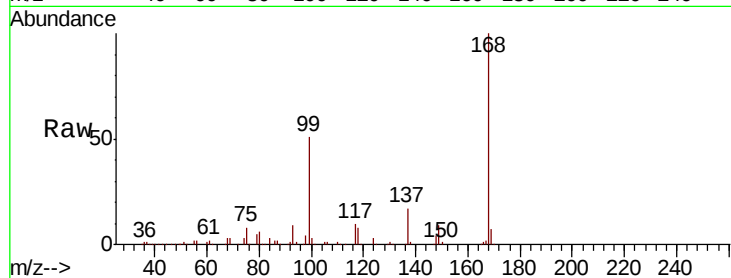
Tgt Ion: 75 Resp: 12817

Ion Ratio Lower Upper

75 100

110 5.6 20.0 59.9#

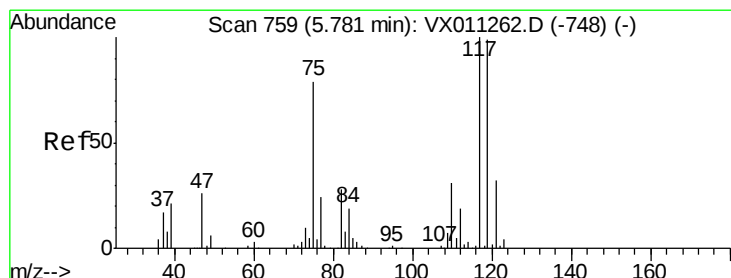
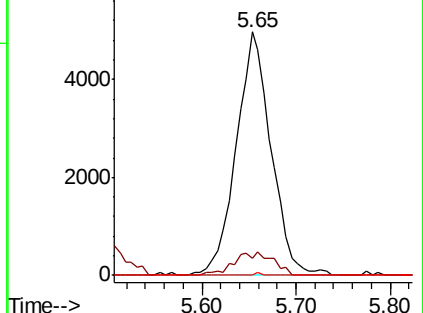
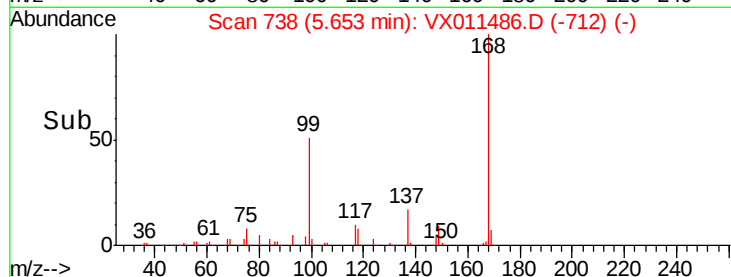
77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX011486.D (-712) (-)

Ion 109.90 (109.60 to 110.60): VX011486.D (-712) (-)

Ion 76.90 (76.60 to 77.60): VX011486.D (-712) (-)



#38

Carbon Tetrachloride

Concen: 7.485 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

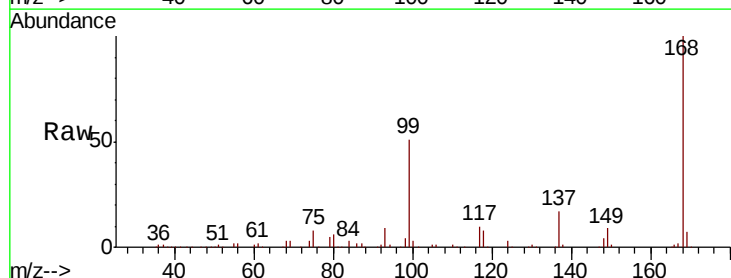
Tgt Ion: 117 Resp: 18185

Ion Ratio Lower Upper

117 100

119 5.0 79.0 118.4#

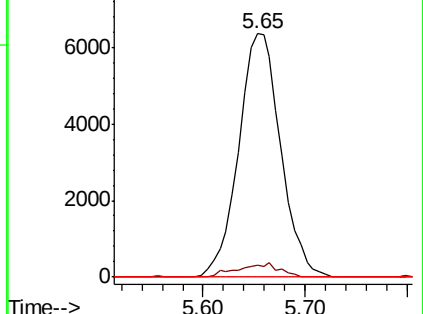
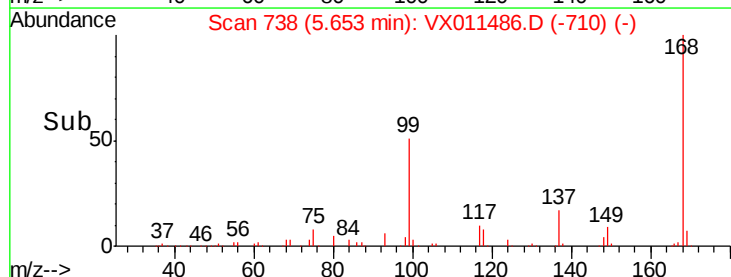
121 0.0 25.9 38.9#

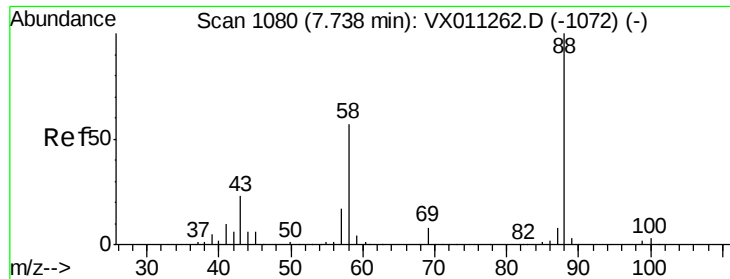


Abundance Ion 116.80 (116.50 to 117.50): VX011486.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX011486.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX011486.D (-710) (-)

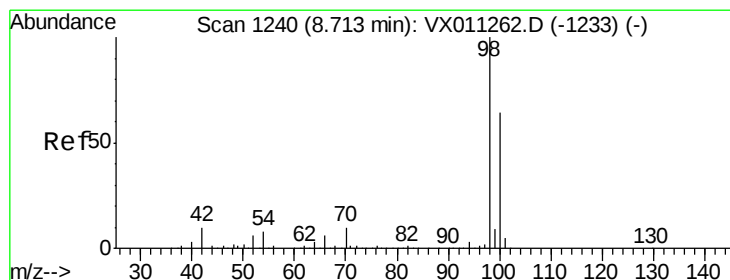
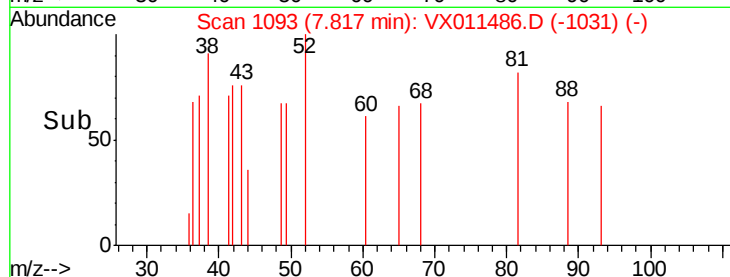
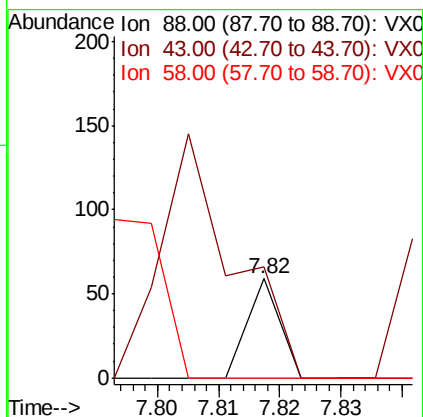
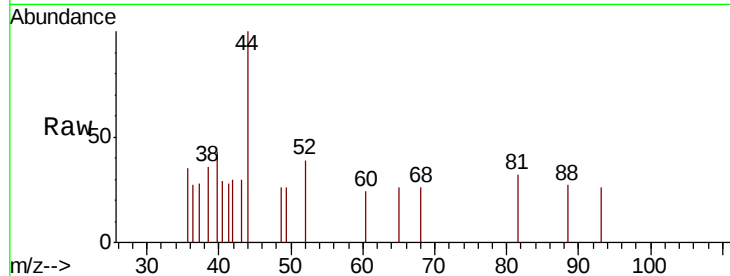




#49
1,4-Dioxane
Concen: 0.416 ug/l
RT: 7.82 min Scan# 1093
Delta R.T. 0.08 min
Lab File: VX011486.D
Acq: 12 Aug 2019 16:16

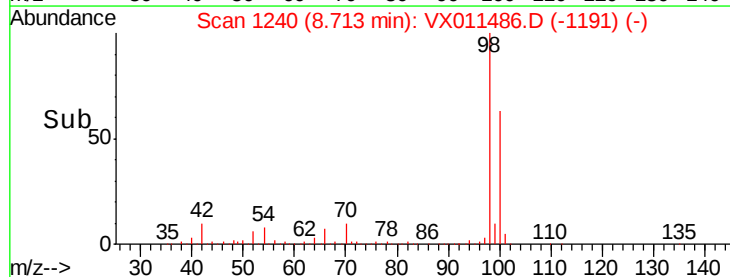
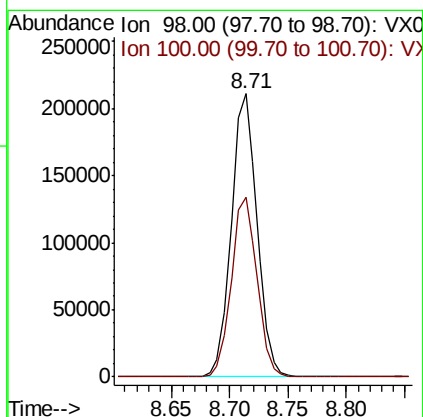
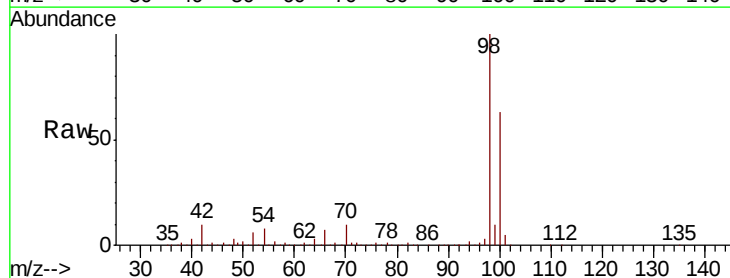
Instrument :
MSVOA_X
ClientSampled :
Z3-0695

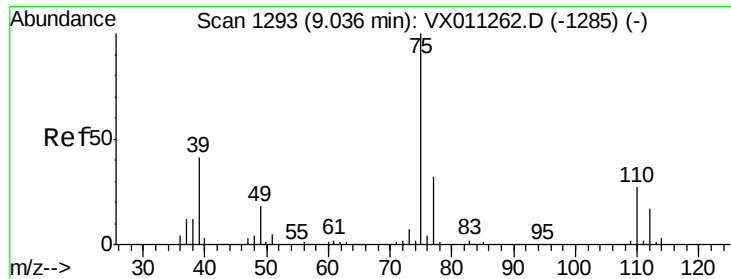
Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 540.9 22.2 33.2#
58 0.0 47.8 71.8#



#50
Toluene-d8
Concen: 47.572 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011486.D
Acq: 12 Aug 2019 16:16

Tgt Ion: 98 Resp: 324262
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5

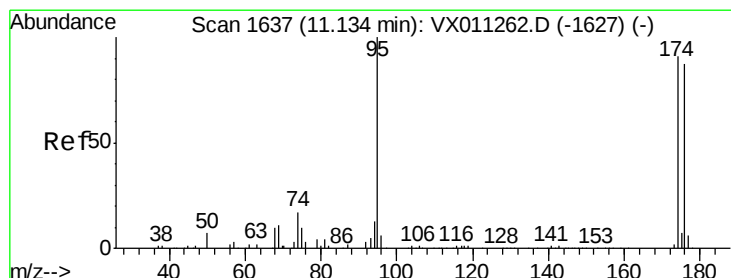
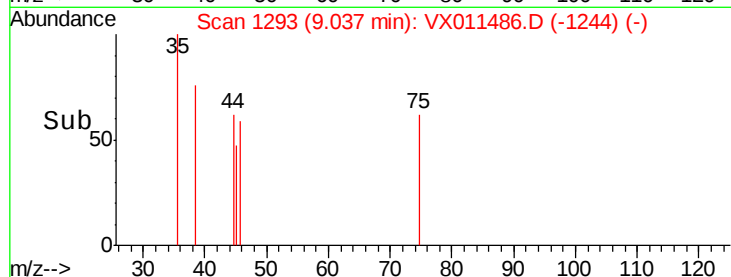
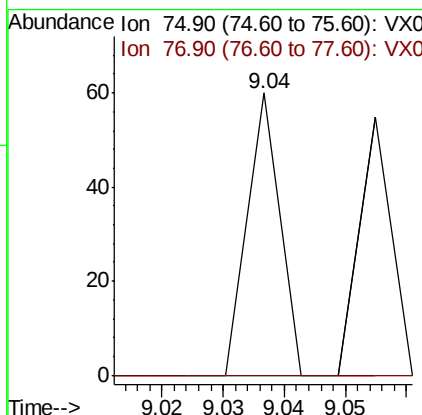
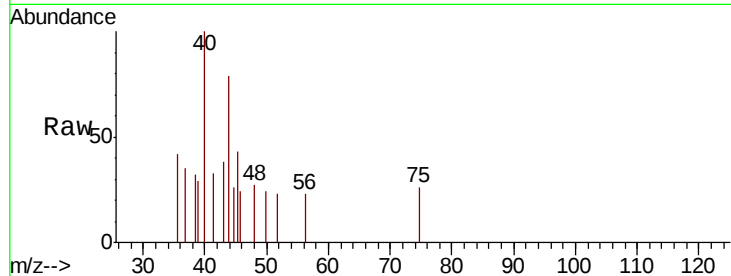




#53
t-1,3-Dichloropropene
Concen: 2.846 ug/l
RT: 9.04 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VX011486.D
Acq: 12 Aug 2019 16:16

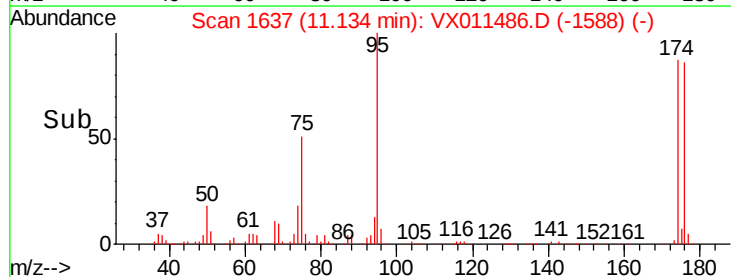
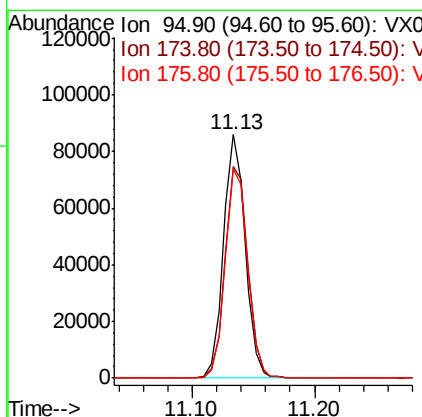
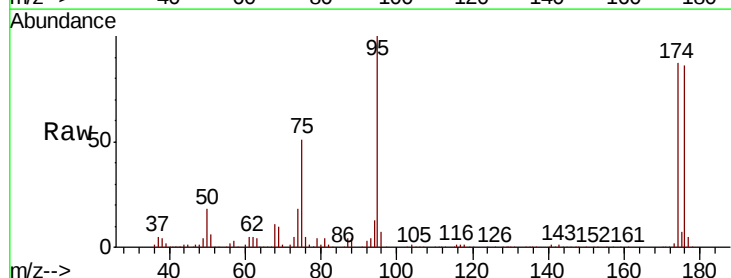
Instrument :
MSVOA_X
ClientSampleId :
Z3-0695

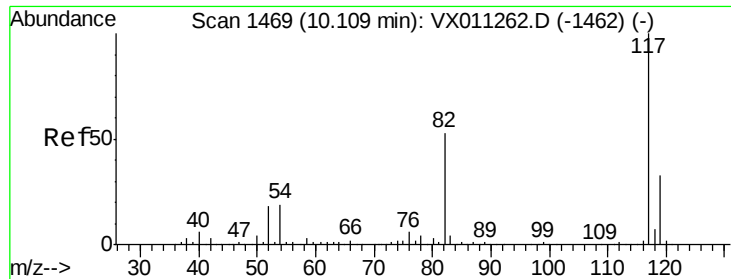
Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#62
4-Bromofluorobenzene
Concen: 43.630 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011486.D
Acq: 12 Aug 2019 16:16

Tgt Ion: 95 Resp: 106177
Ion Ratio Lower Upper
95 100
174 90.3 0.0 191.2
176 88.1 0.0 184.8

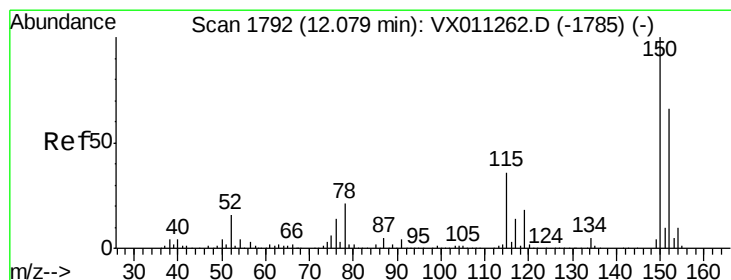
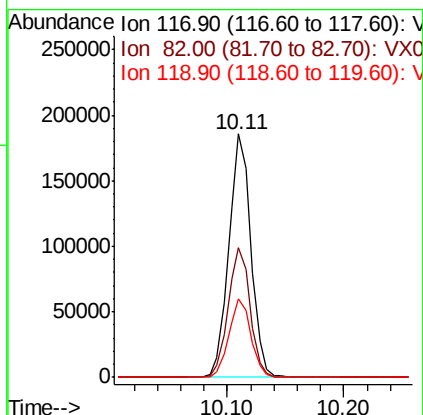
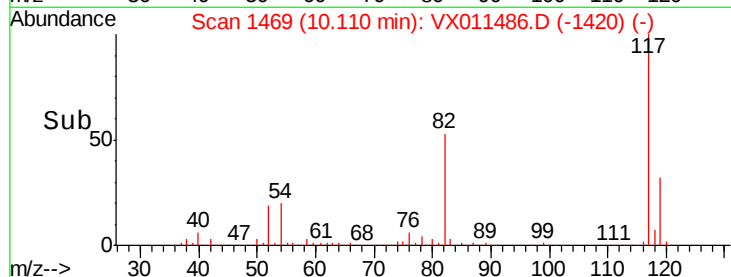
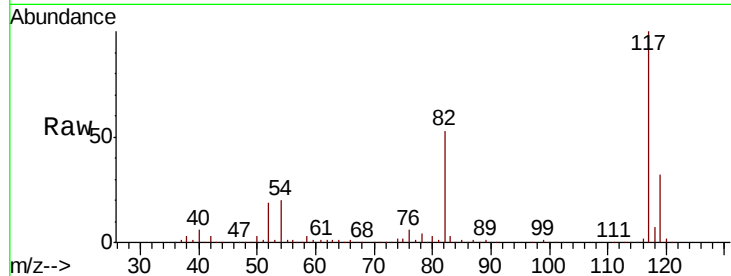




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011486.D
Acq: 12 Aug 2019 16:16

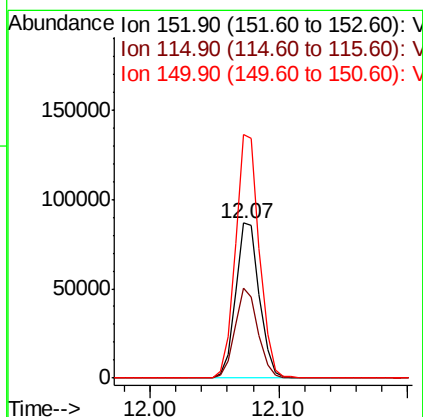
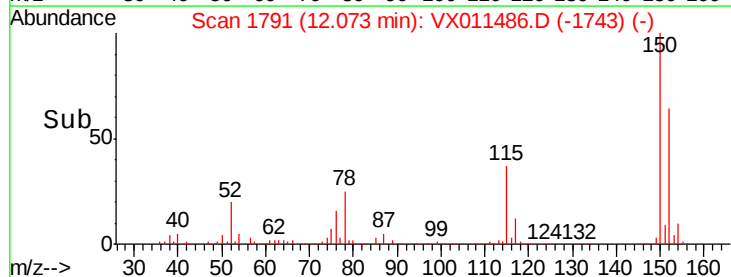
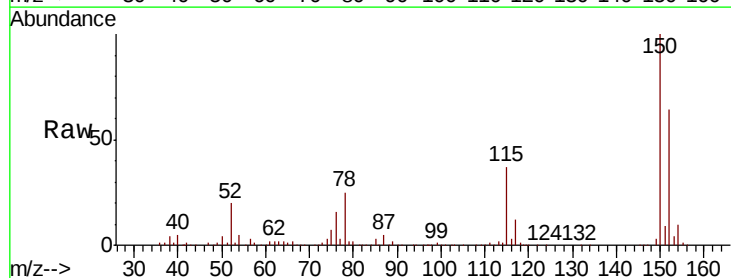
Instrument :
MSVOA_X
ClientSampled :
Z3-0695

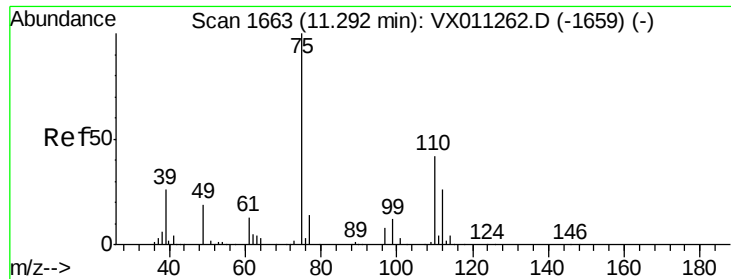
Tgt Ion:117 Resp: 245063
Ion Ratio Lower Upper
117 100
82 53.4 42.2 63.2
119 32.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011486.D
Acq: 12 Aug 2019 16:16

Tgt Ion:152 Resp: 111284
Ion Ratio Lower Upper
152 100
115 55.9 40.0 119.9
150 157.1 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 26.757 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

Instrument :

MSVOA_X

ClientSampleId :

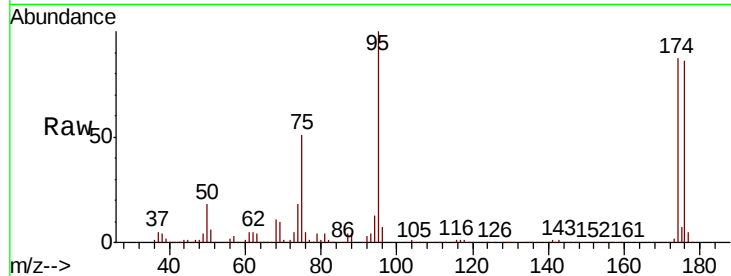
Z3-0695

Tgt Ion: 75 Resp: 54227

Ion Ratio Lower Upper

75 100

77 1.4 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

40000

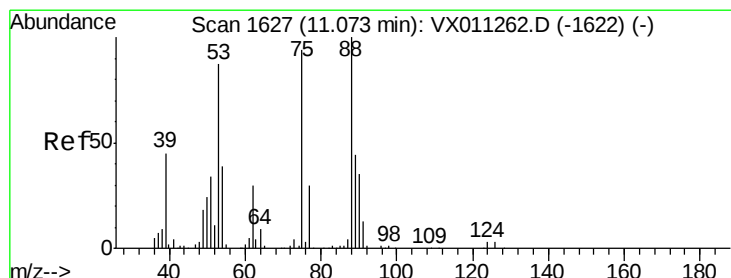
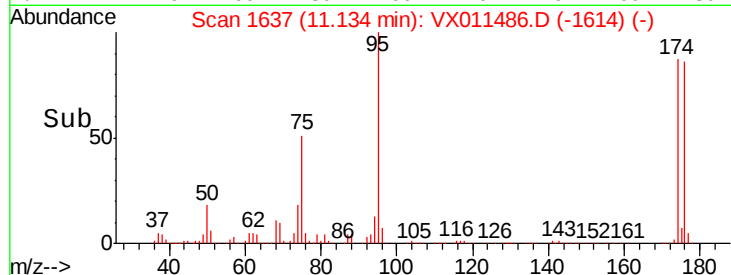
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 69.507 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011486.D

Acq: 12 Aug 2019 16:16

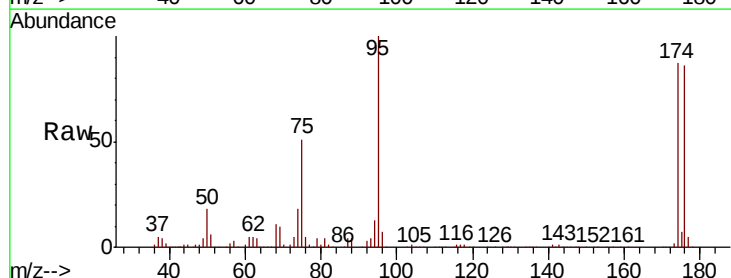
Tgt Ion: 75 Resp: 54227

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 37.9 56.9#



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

50000

40000

30000

20000

10000

0

Time-->

