

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111519\
 Data File : VX013444.D
 Acq On : 15 Nov 2019 14:26
 Operator : JC/SP
 Sample : K5884-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S36-TB-2019-4

Quant Time: Nov 15 23:02:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	705531	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1130043	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1006103	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	457449	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	409199	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
35) Dibromofluoromethane	5.49	113	339516	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
50) Toluene-d8	8.71	98	1345958	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	11.14	95	451168	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	

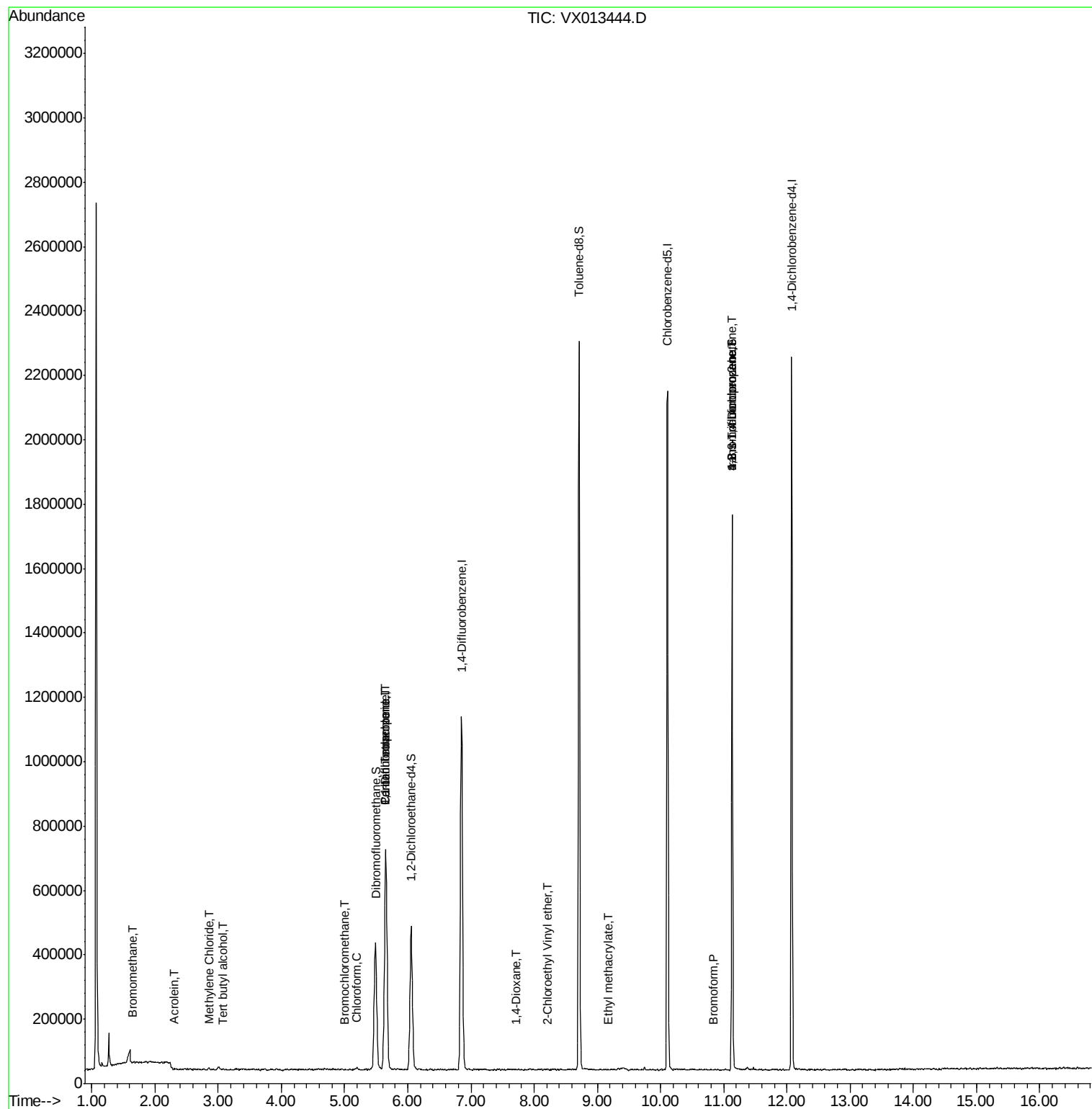
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1476	0.211	ug/l #	31
6) Chloroethane	1.80	64	753	Below Cal		90
11) Tert butyl alcohol	3.06	59	449	0.204	ug/l #	1
13) Acrolein	2.30	56	657	0.550	ug/l #	69
20) Methylene Chloride	2.85	84	2500	0.325	ug/l #	41
28) Bromochloromethane	5.00	49	963	0.267	ug/l #	47
30) Chloroform	5.20	83	7533	0.601	ug/l	97
36) 1,1-Dichloropropene	5.65	75	49455	5.101	ug/l #	51
38) Carbon Tetrachloride	5.65	117	63440	6.692	ug/l #	15
49) 1,4-Dioxane	7.72	88	273	1.280	ug/l #	1
56) Ethyl methacrylate	9.18	69	211	1.578	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.21	63	1112	0.210	ug/l	96
71) Bromoform	10.85	173	377	3.253	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	220703	23.754	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	220703	61.141	ug/l #	9

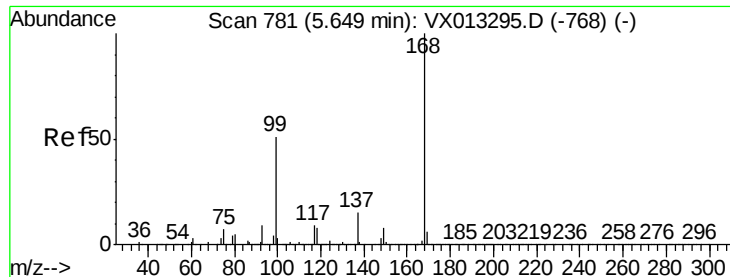
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

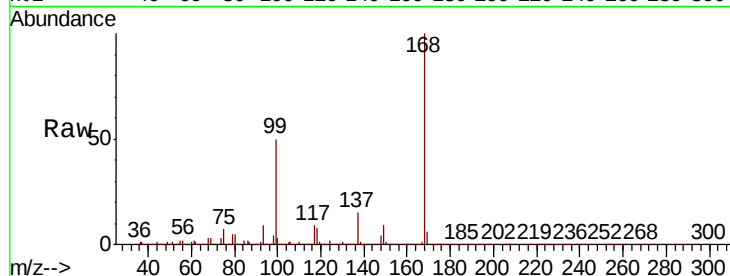
S36-TB-2019-4

Tot Ion:168 Resp: 705531

Ion Ratio Lower Upper

168 100

99 50.3 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

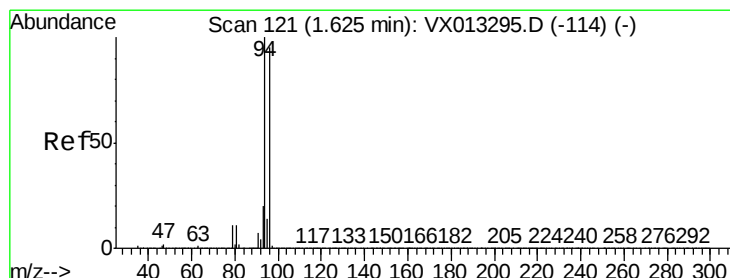
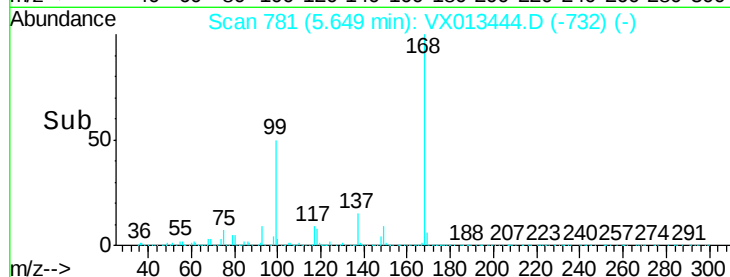
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.211 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013444.D

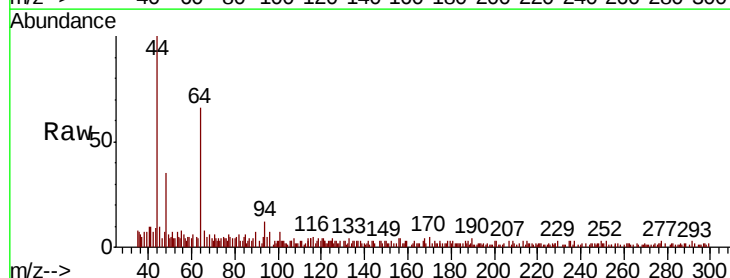
Acq: 15 Nov 2019 14:26

Tgt Ion: 94 Resp: 1476

Ion Ratio Lower Upper

94 100

96 27.8 75.8 113.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

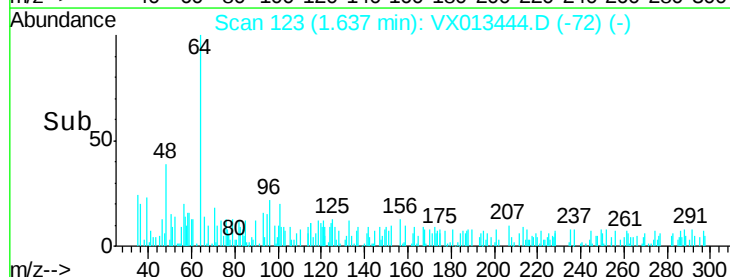
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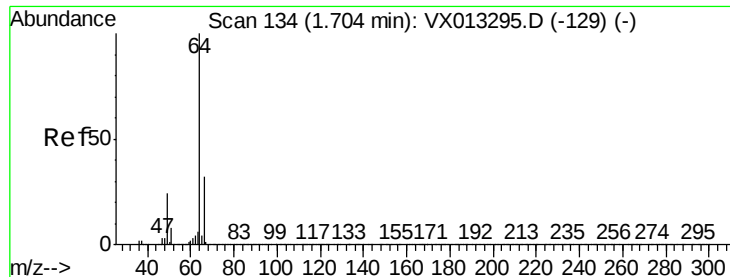
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.80 min Scan# 150

Delta R.T. 0.10 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

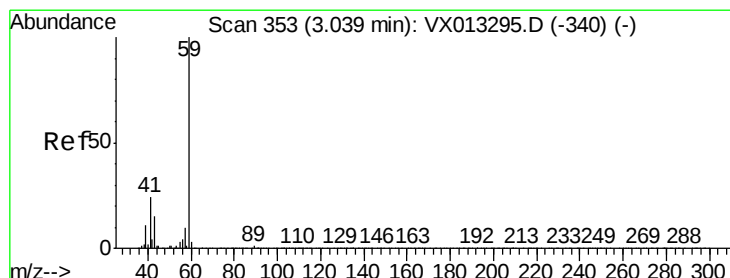
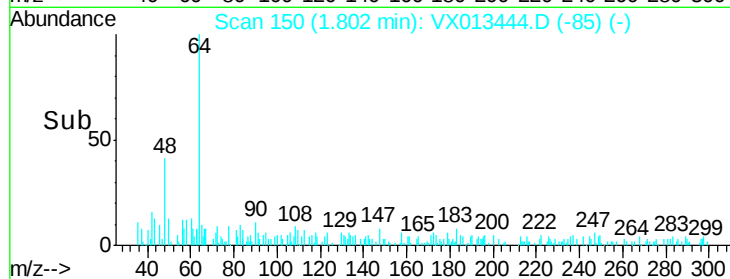
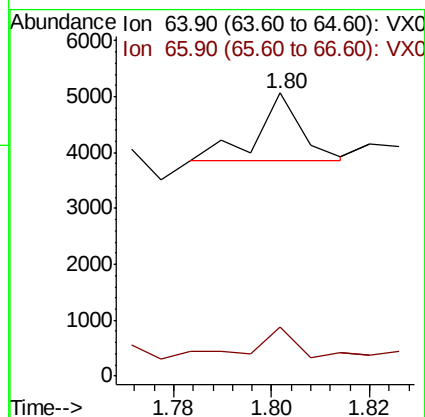
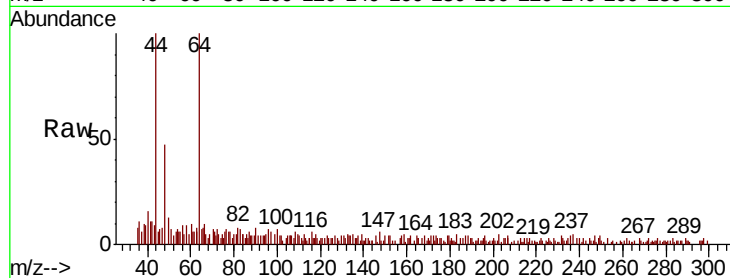
S36-TB-2019-4

Tot Ion: 64 Resp: 753

Ion Ratio Lower Upper

64 100

66 37.7 25.6 38.4



#11

Tert butyl alcohol

Concen: 0.204 ug/l

RT: 3.06 min Scan# 357

Delta R.T. 0.02 min

Lab File: VX013444.D

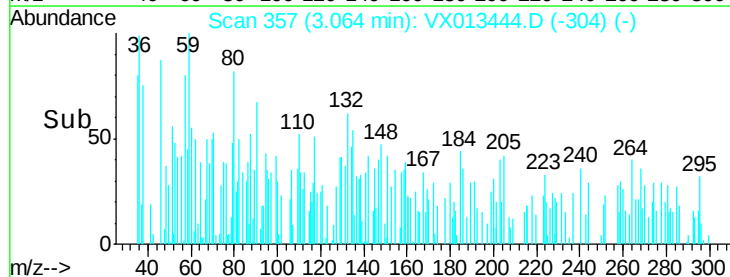
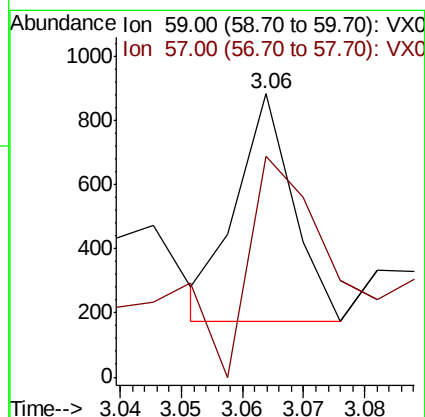
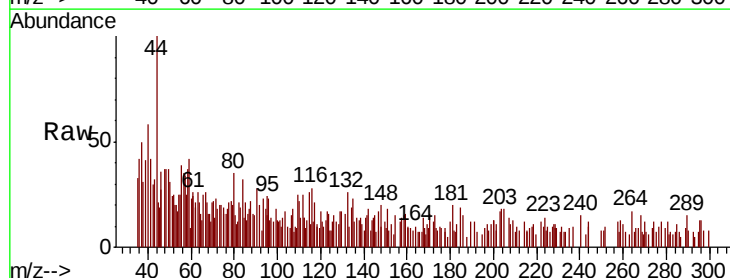
Acq: 15 Nov 2019 14:26

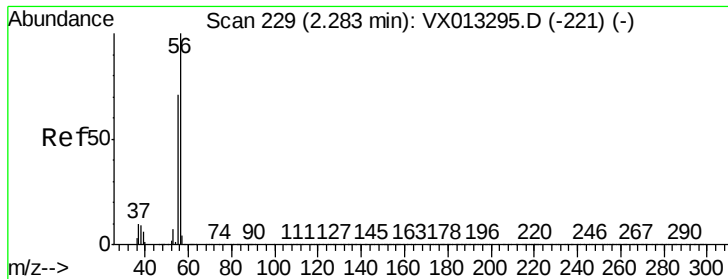
Tgt Ion: 59 Resp: 449

Ion Ratio Lower Upper

59 100

57 188.6 8.0 12.0#

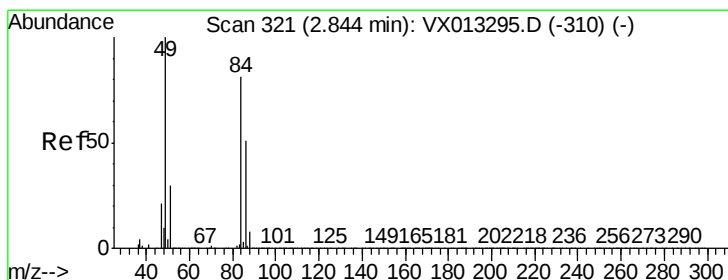
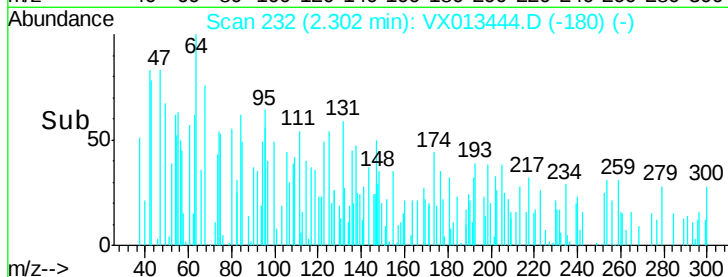
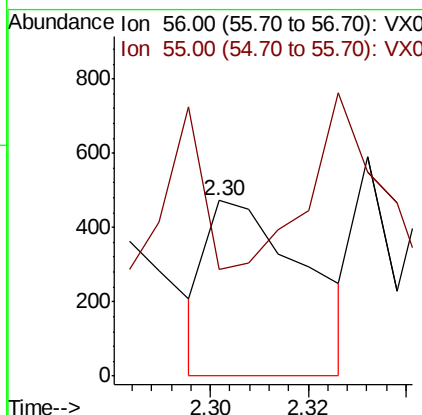
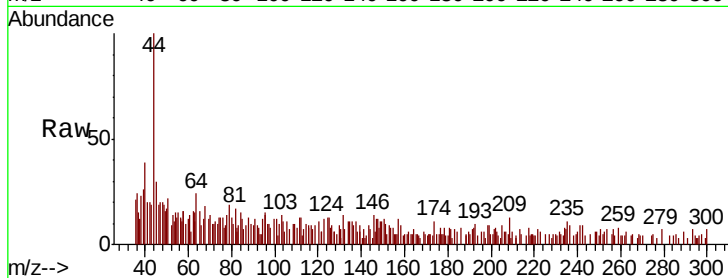




#13
Acrolein
Concen: 0.550 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

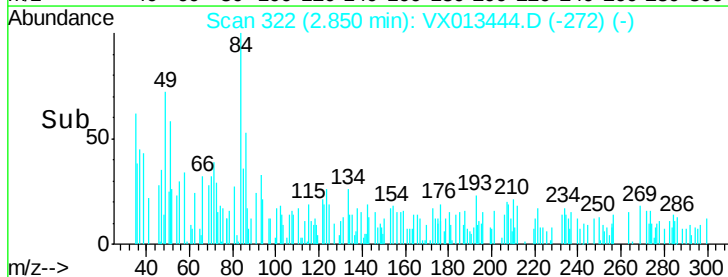
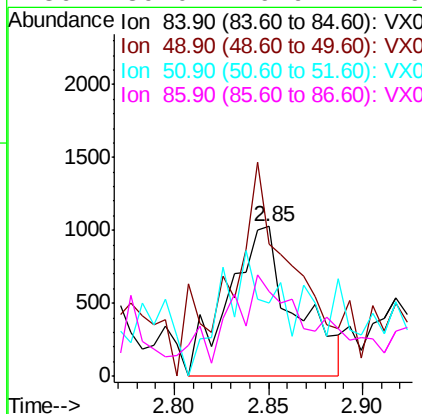
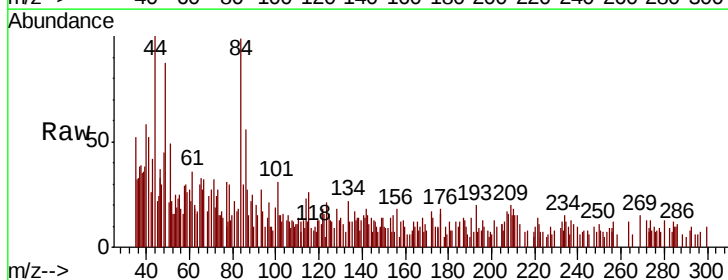
Instrument :
MSVOA_X
ClientSampleId :
S36-TB-2019-4

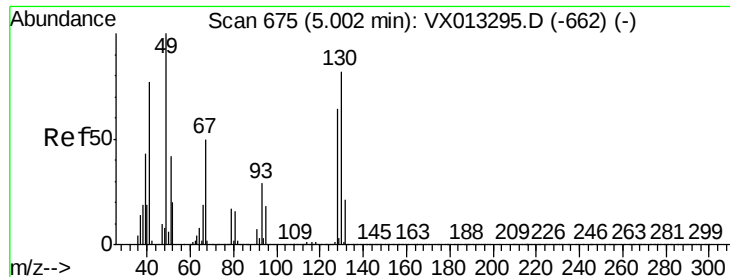
Tot Ion: 56 Resp: 657
Ion Ratio Lower Upper
56 100
55 45.8 57.4 86.0#



#20
Methylene Chloride
Concen: 0.325 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

Tgt Ion: 84 Resp: 2500
Ion Ratio Lower Upper
84 100
49 28.3 98.2 147.4#
51 53.4 29.9 44.9#
86 39.0 49.9 74.9#





#28

Bromochloromethane

Concen: 0.267 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-4

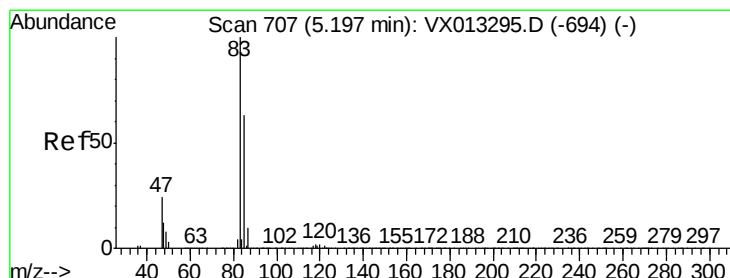
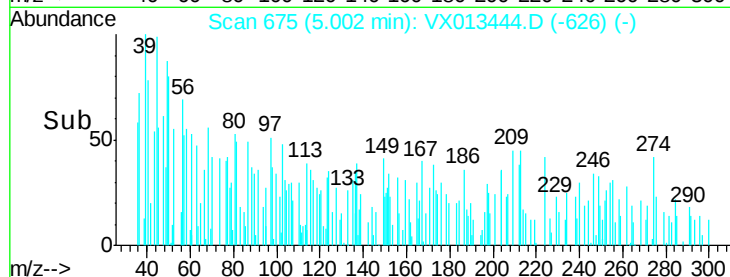
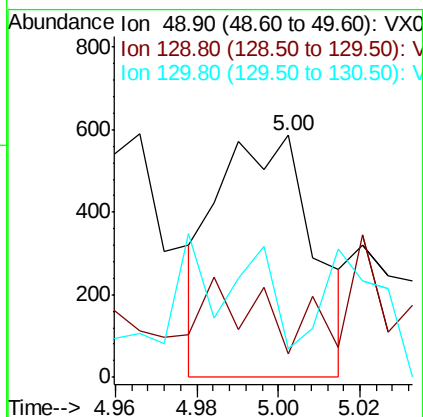
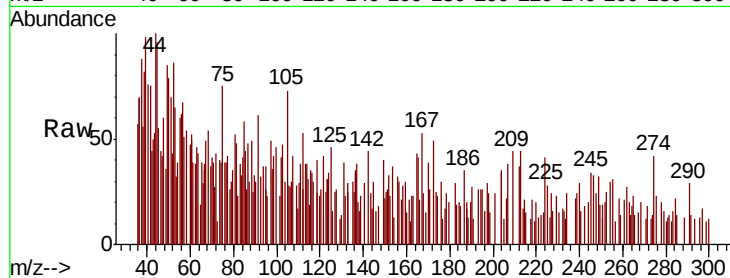
Tot Ion: 49 Resp: 963

Ion Ratio Lower Upper

49 100

129 26.6 0.0 5.2#

130 33.2 63.8 95.6#



#30

Chloroform

Concen: 0.601 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013444.D

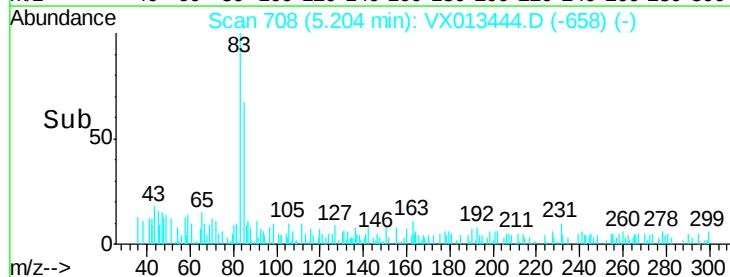
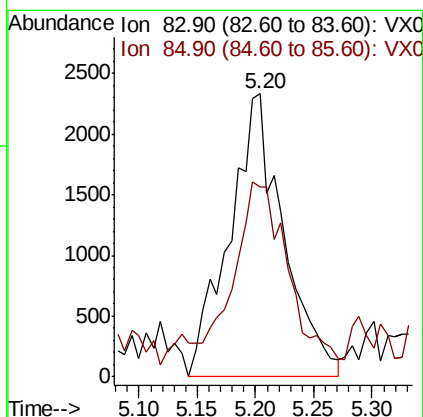
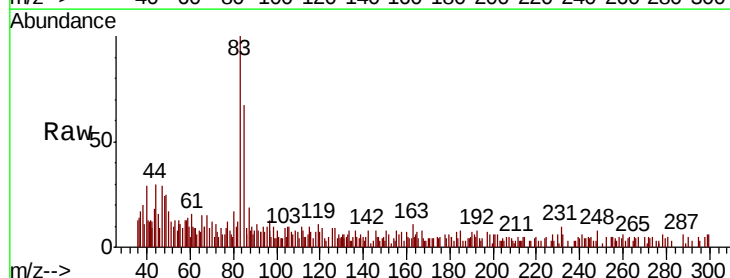
Acq: 15 Nov 2019 14:26

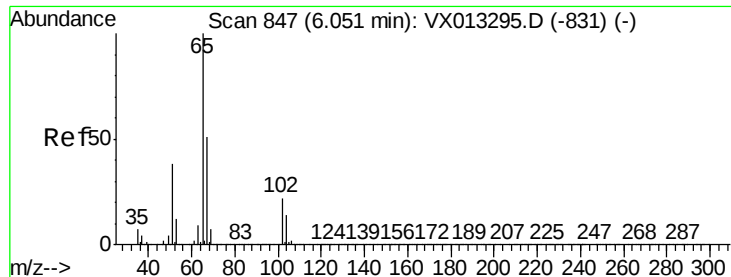
Tgt Ion: 83 Resp: 7533

Ion Ratio Lower Upper

83 100

85 65.2 50.2 75.4





#33

1,2-Dichloroethane-d4

Concen: 48.956 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

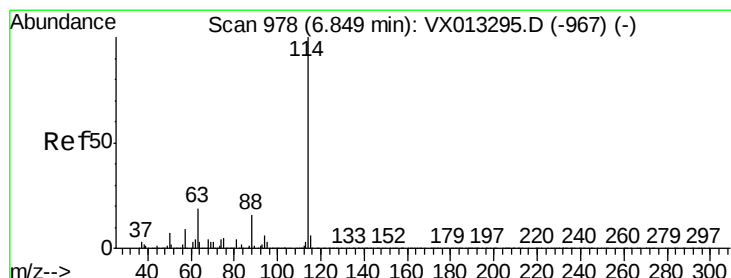
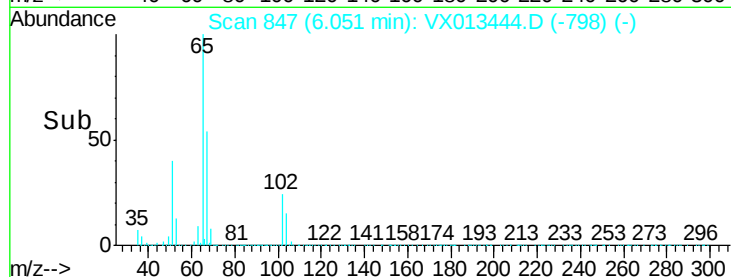
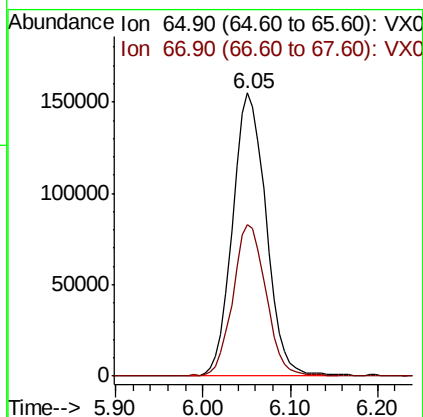
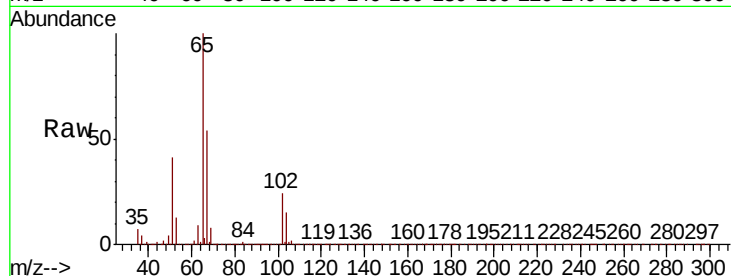
S36-TB-2019-4

Tot Ion: 65 Resp: 409199

Ion Ratio Lower Upper

65 100

67 53.1 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

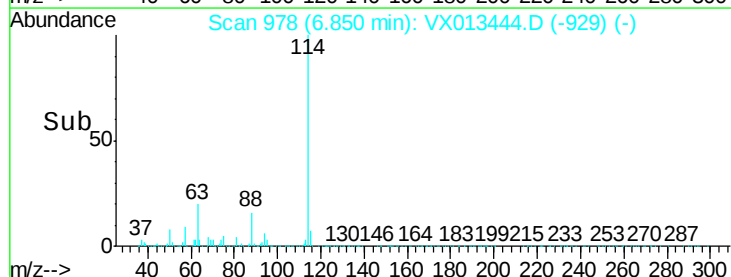
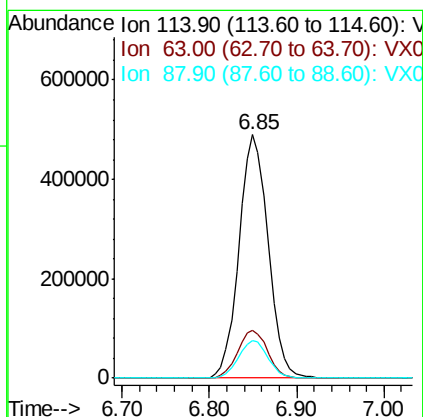
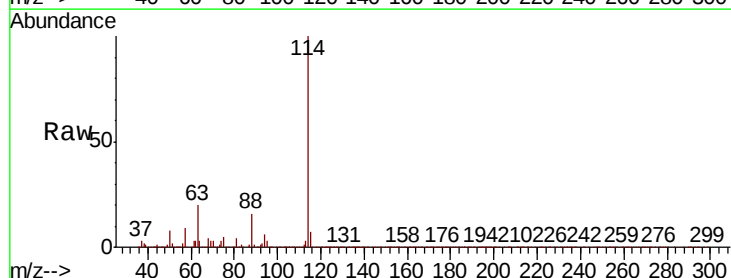
Tgt Ion: 114 Resp: 1130043

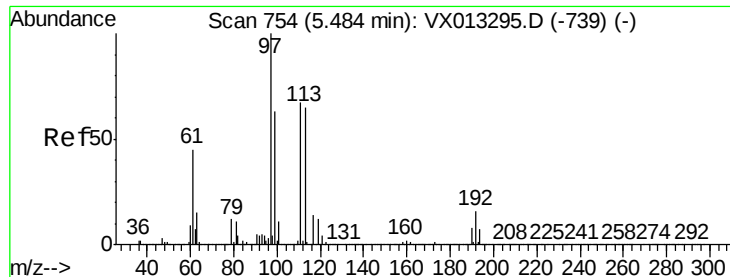
Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

88 15.5 0.0 32.2

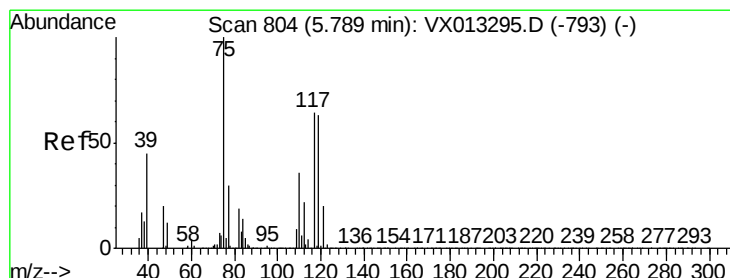
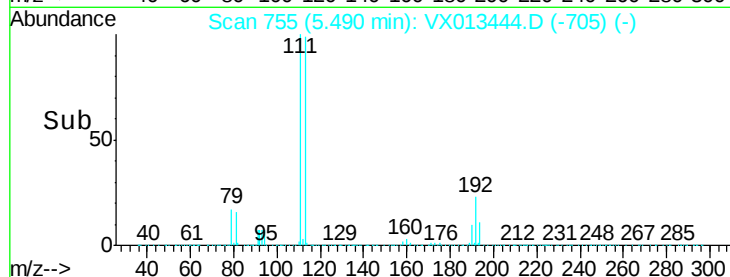
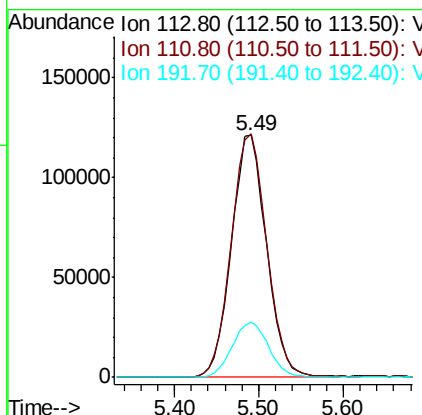
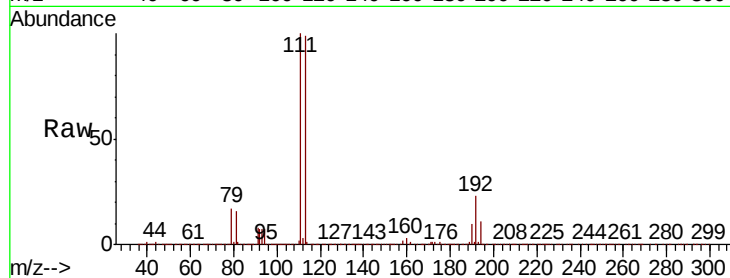




#35
Dibromofluoromethane
Concen: 47.902 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

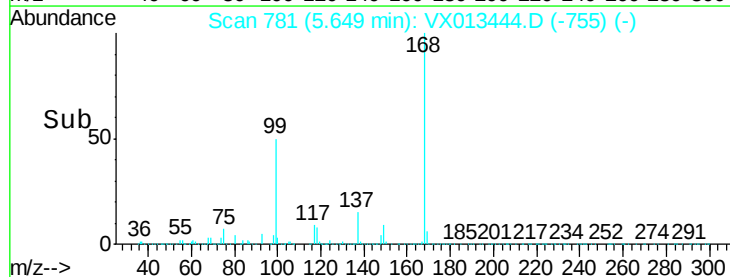
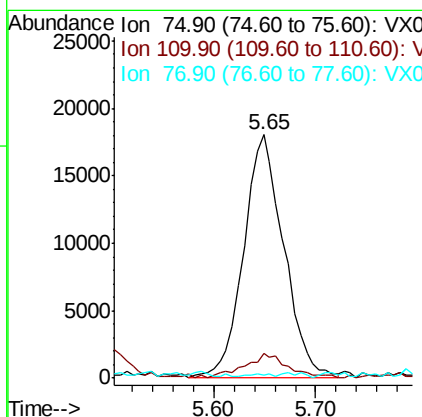
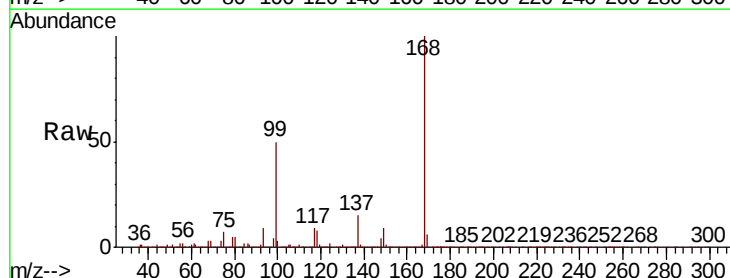
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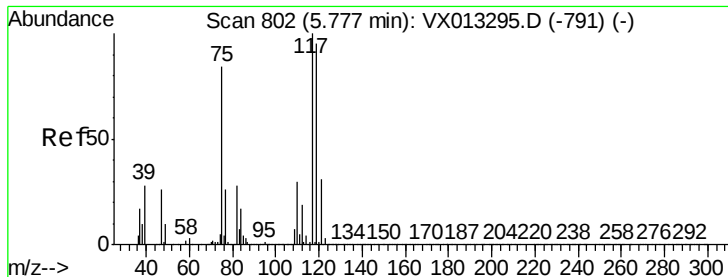
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	23.5	19.1	28.7



#36
1,1-Dichloropropene
Concen: 5.101 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.1	54.1#
77	0.5	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.692 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-4

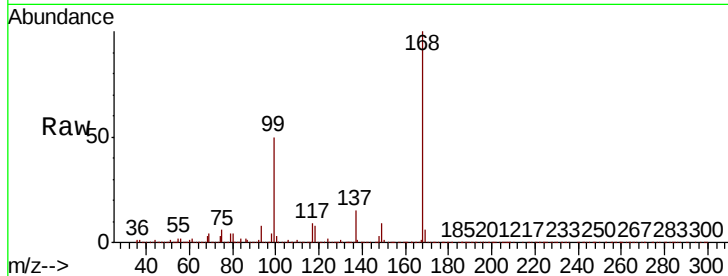
Tot Ion:117 Resp: 63440

Ion Ratio Lower Upper

117 100

119 3.1 76.1 114.1#

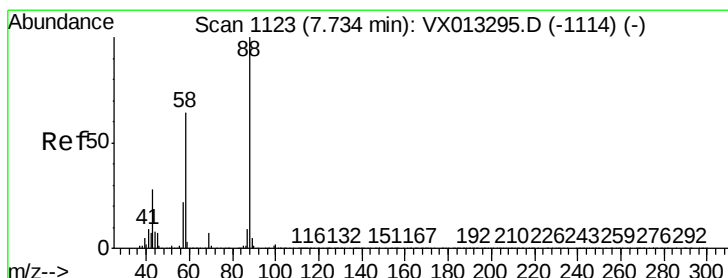
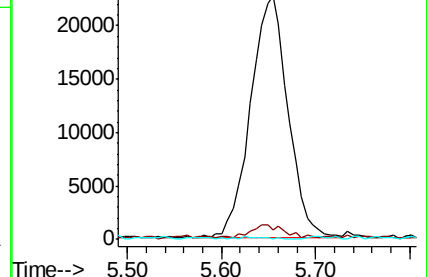
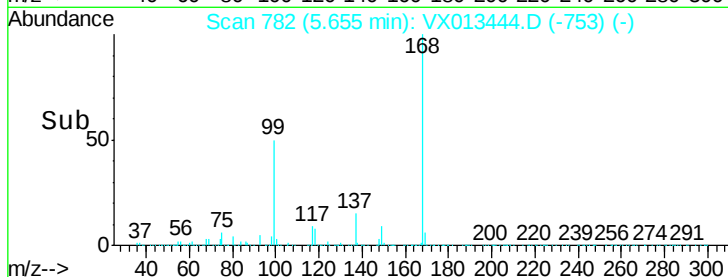
121 0.1 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.280 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

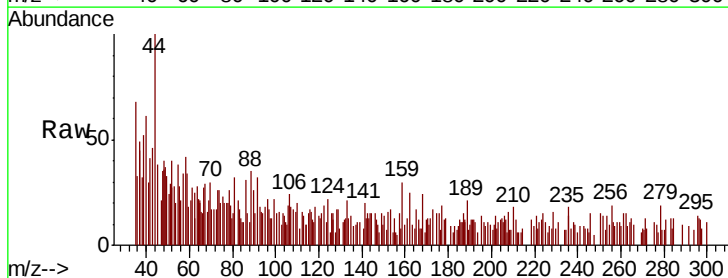
Tgt Ion: 88 Resp: 273

Ion Ratio Lower Upper

88 100

43 451.3 26.6 39.8#

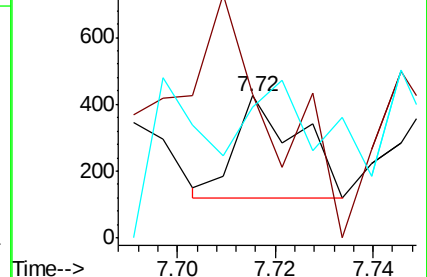
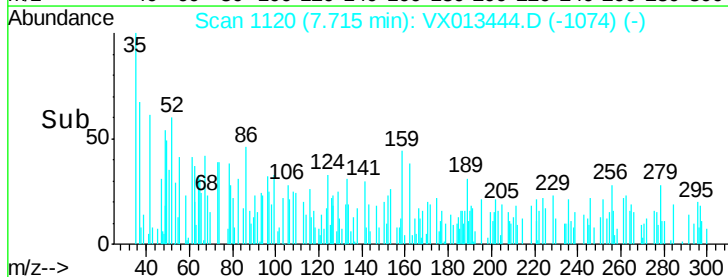
58 153.8 55.0 82.6#

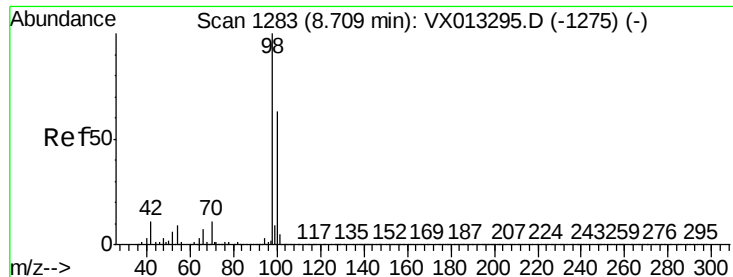


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.372 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

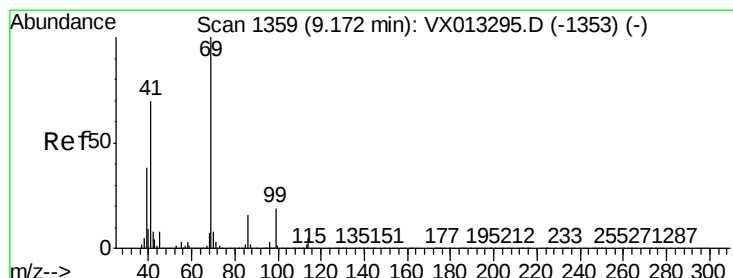
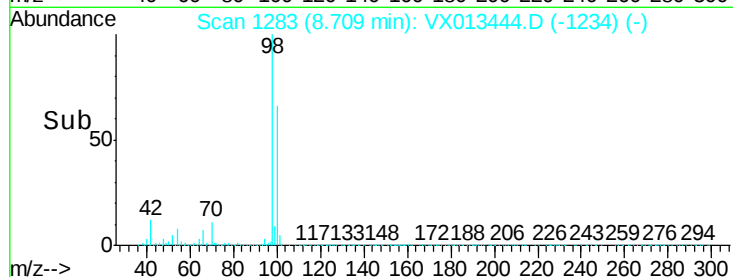
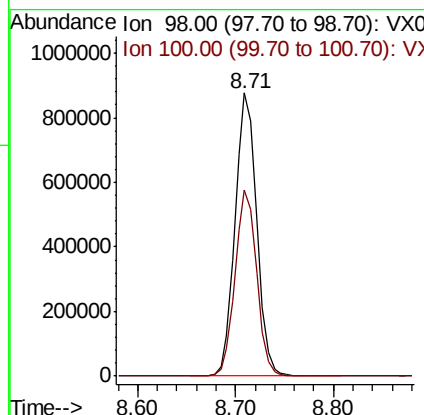
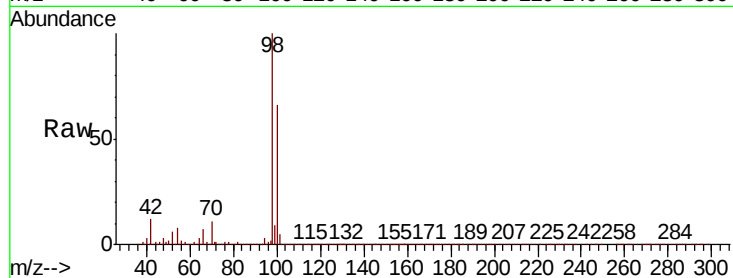
S36-TB-2019-4

Tot Ion: 98 Resp: 1345958

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.578 ug/l

RT: 9.18 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

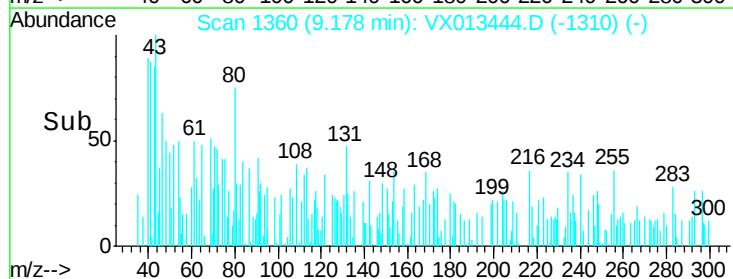
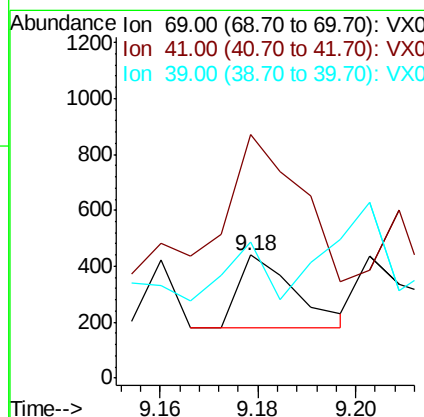
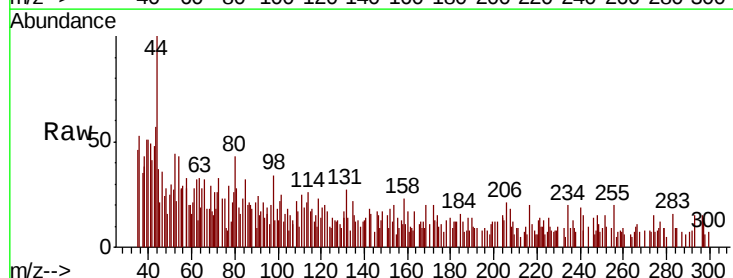
Tgt Ion: 69 Resp: 211

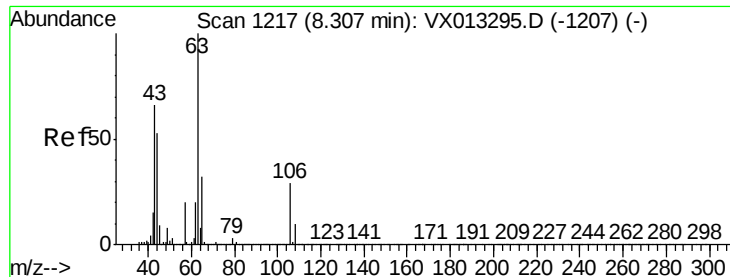
Ion Ratio Lower Upper

69 100

41 496.7 56.2 84.2#

39 67.8 31.1 46.7#

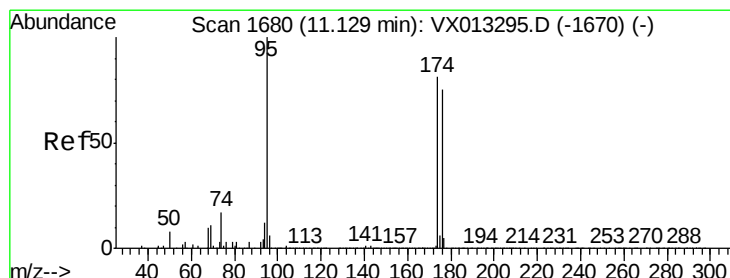
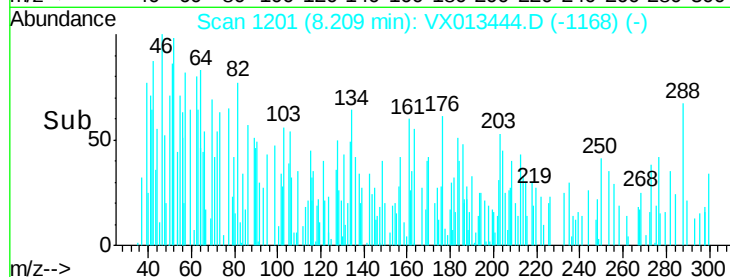
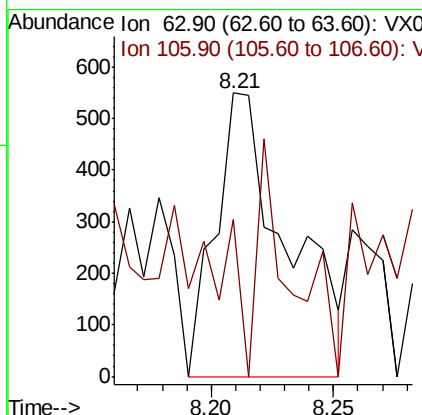
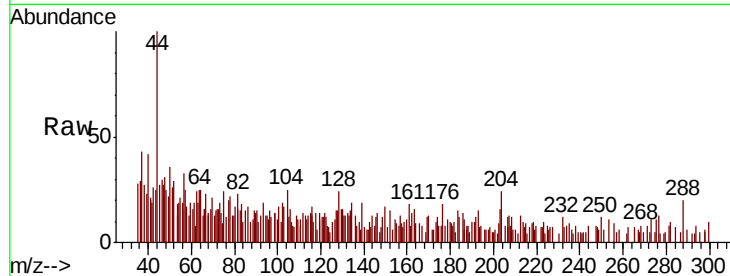




#58
2-Chloroethyl Vinyl ether
Concen: 0.210 ug/l
RT: 8.21 min Scan# 1201
Delta R.T. -0.10 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

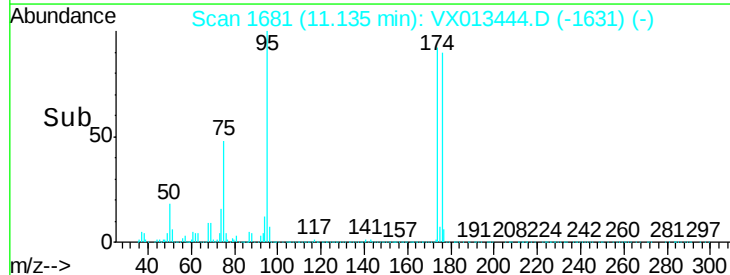
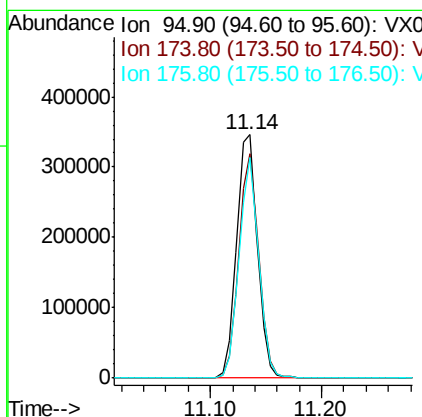
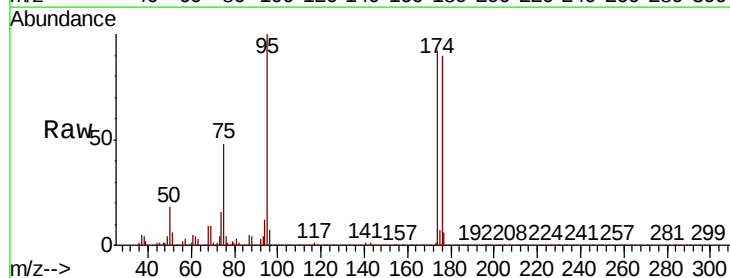
Instrument :
MSVOA_X
ClientSampleId :
S36-TB-2019-4

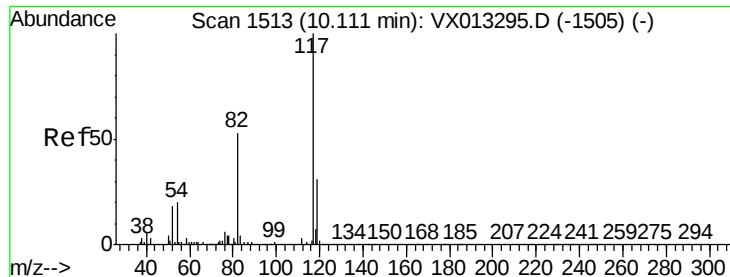
Tot Ion: 63 Resp: 1112
Ion Ratio Lower Upper
63 100
106 31.4 23.4 35.2



#62
4-Bromofluorobenzene
Concen: 46.785 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

Tgt Ion: 95 Resp: 451168
Ion Ratio Lower Upper
95 100
174 88.8 0.0 179.8
176 85.5 0.0 173.0

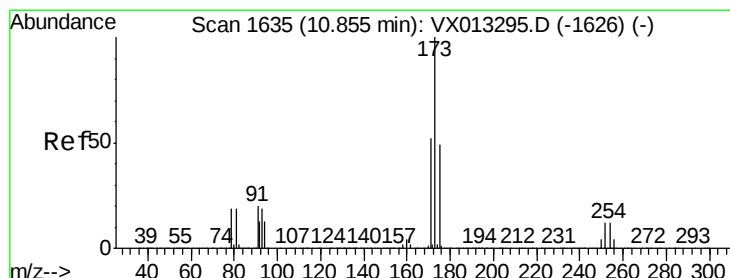
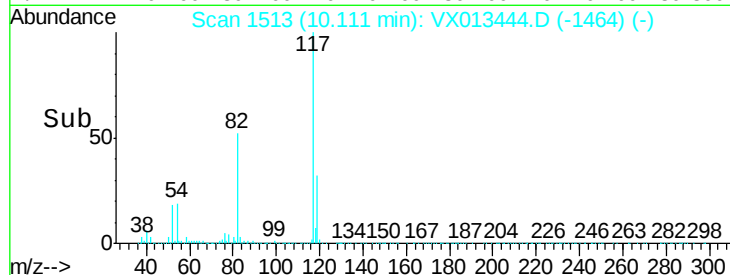
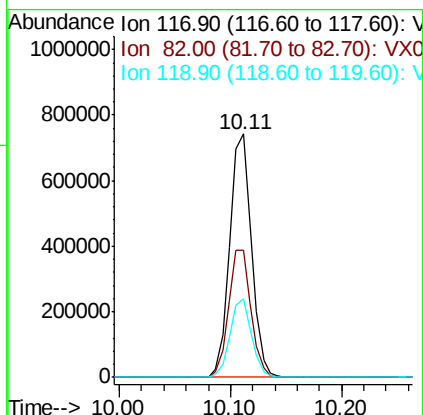
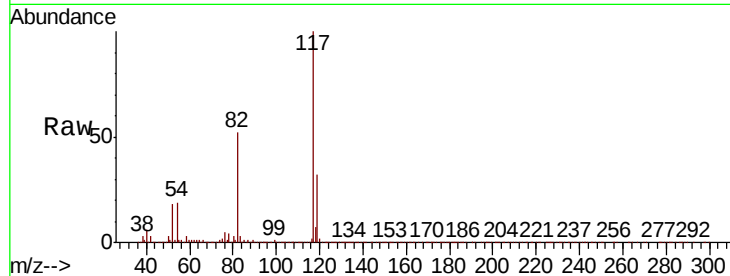




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

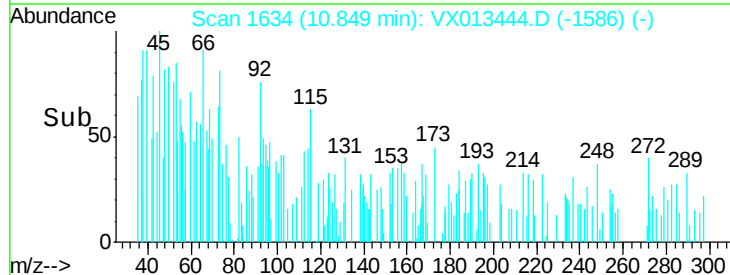
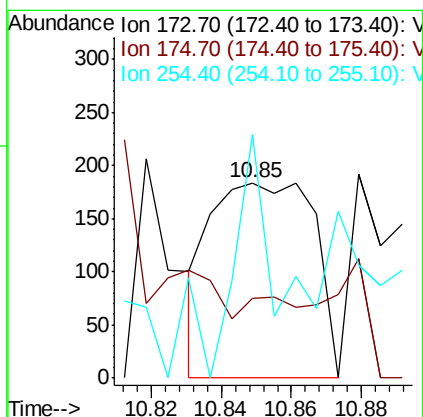
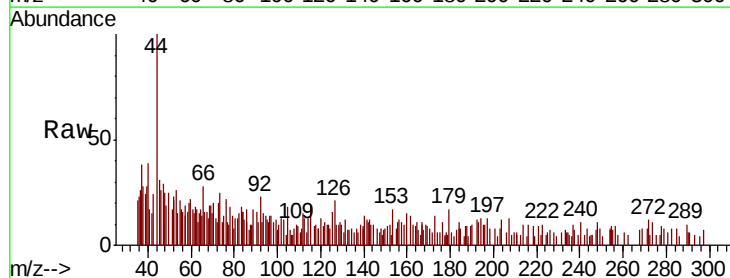
Instrument :
MSVOA_X
ClientSampleId :
S36-TB-2019-4

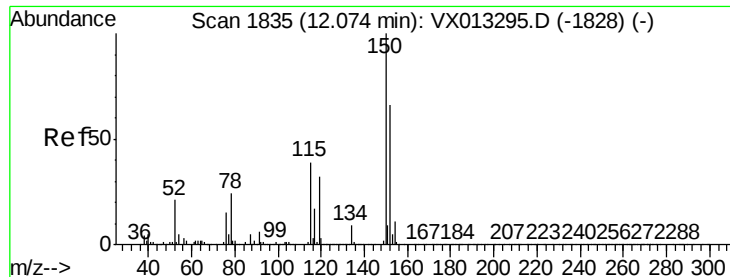
Tot Ion:117 Resp: 1006103
Ion Ratio Lower Upper
117 100
82 52.3 42.6 64.0
119 32.2 24.8 37.2



#71
Bromoform
Concen: 3.253 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013444.D
Acq: 15 Nov 2019 14:26

Tgt Ion:173 Resp: 377
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 61.5 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-4

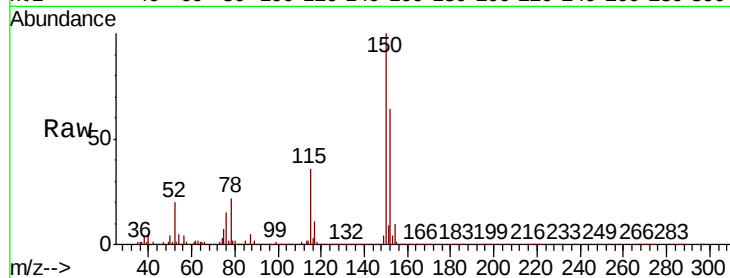
Tot Ion:152 Resp: 457449

Ion Ratio Lower Upper

152 100

115 55.1 39.5 118.3

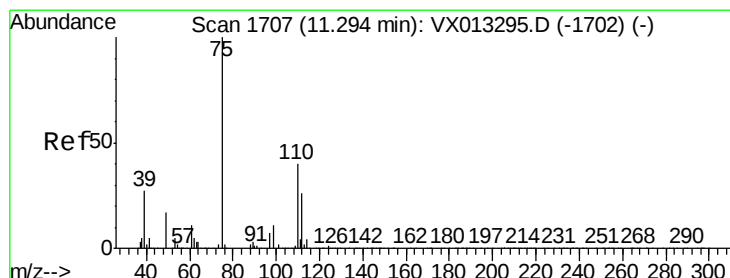
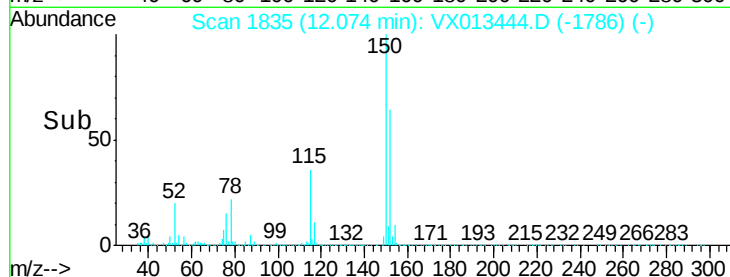
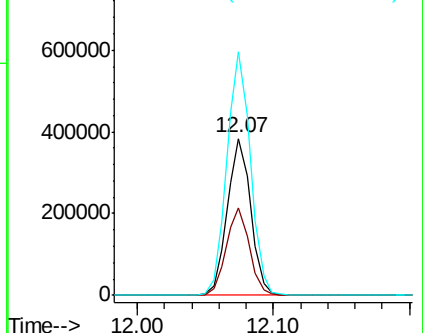
150 156.1 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.754 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013444.D

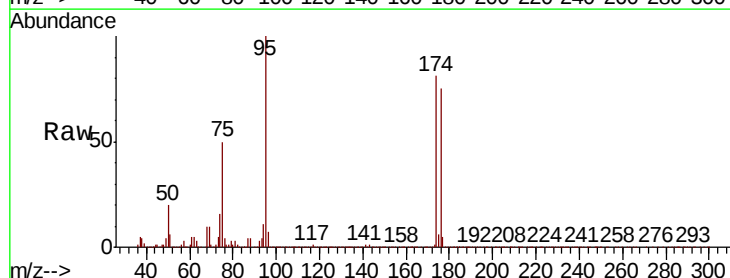
Acq: 15 Nov 2019 14:26

Tgt Ion: 75 Resp: 220703

Ion Ratio Lower Upper

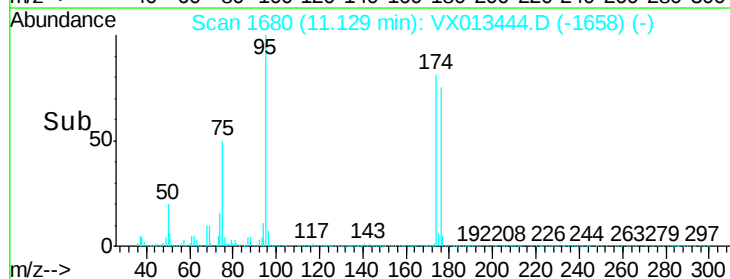
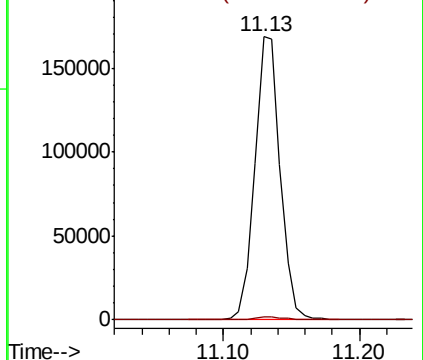
75 100

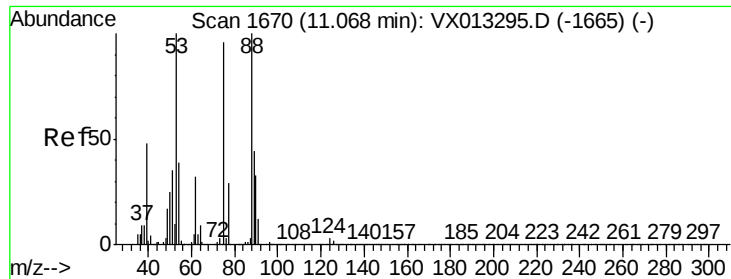
77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.141 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013444.D

Acq: 15 Nov 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

S36-TB-2019-4

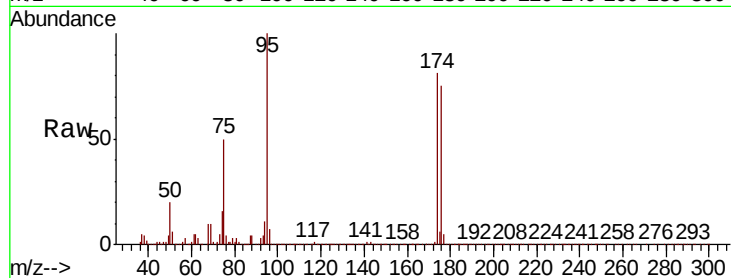
Tot Ion: 75 Resp: 220703

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 36.0 54.0#



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

