

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110119\
 Data File : VX013313.D
 Acq On : 01 Nov 2019 15:54
 Operator : JC/SP
 Sample : K5651-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 04 00:30:47 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	738719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1124820	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1003745	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	469633	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	413217	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
35) Dibromofluoromethane	5.48	113	338579	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	8.71	98	1325467	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.13	95	444771	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	

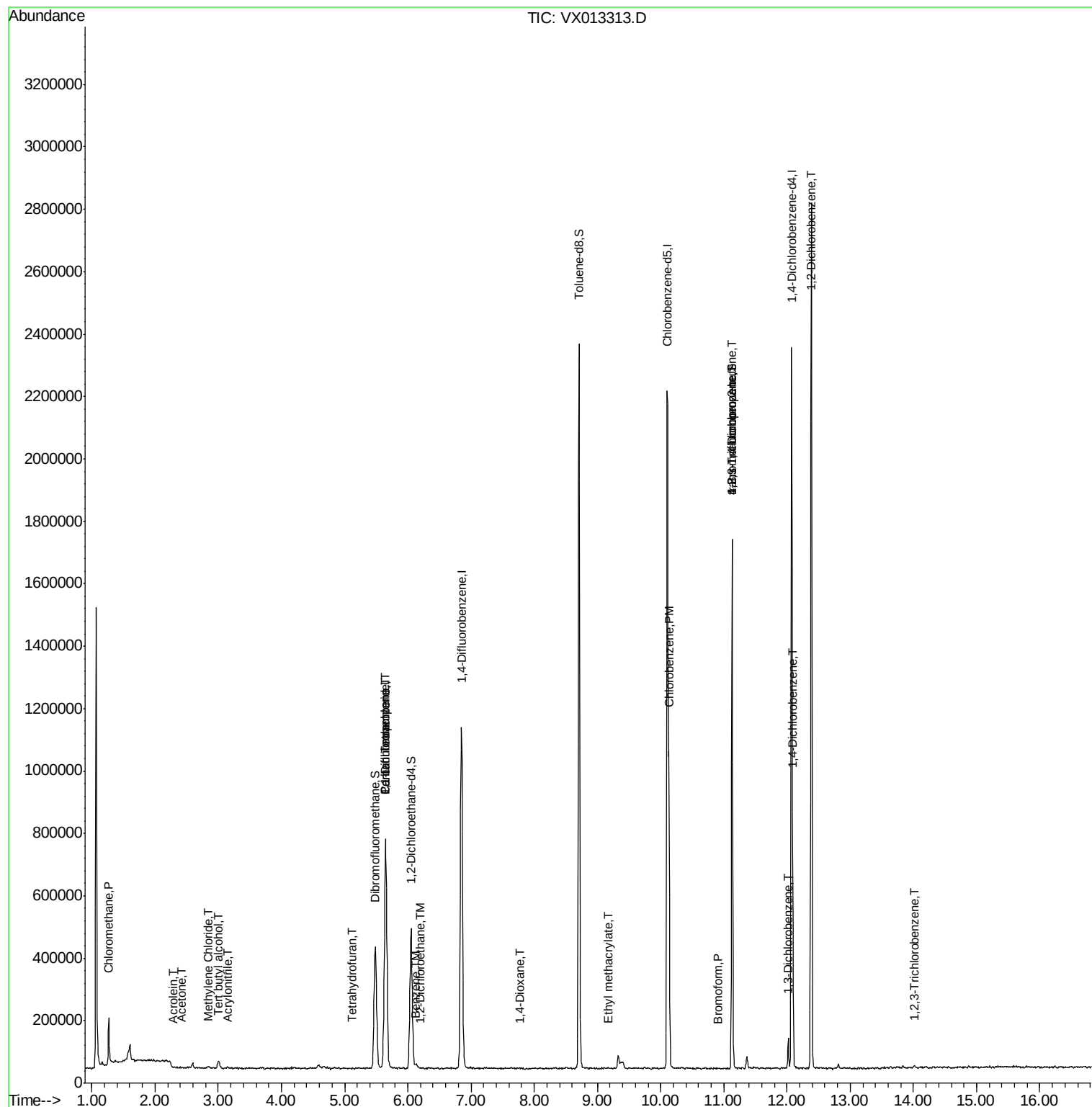
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	3002	0.325	ug/l #	75
6) Chloroethane	1.78	64	603	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	19596	8.495	ug/l #	75
13) Acrolein	2.28	56	337	0.270	ug/l #	49
15) Acrylonitrile	3.14	53	1332	0.309	ug/l #	35
16) Acetone	2.43	43	3956	0.906	ug/l #	68
20) Methylene Chloride	2.84	84	4885	0.606	ug/l #	68
29) Tetrahydrofuran	5.12	42	1107	0.281	ug/l #	77
36) 1,1-Dichloropropene	5.64	75	50371	5.220	ug/l #	51
38) Carbon Tetrachloride	5.64	117	64719	6.859	ug/l #	18
40) Benzene	6.13	78	16330	0.543	ug/l #	90
42) 1,2-Dichloroethane	6.19	62	2246	0.207	ug/l #	69
49) 1,4-Dioxane	7.78	88	464	2.186	ug/l #	45
56) Ethyl methacrylate	9.18	69	128	1.572	ug/l #	1
65) Chlorobenzene	10.14	112	413524	20.349	ug/l	100
71) Bromoform	10.90	173	764	3.306	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	225265	23.616	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	225265	60.786	ug/l #	9
87) 1,3-Dichlorobenzene	12.02	146	33908	2.292	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	108676	7.209	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	903128	61.062	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	2148	0.208	ug/l #	86

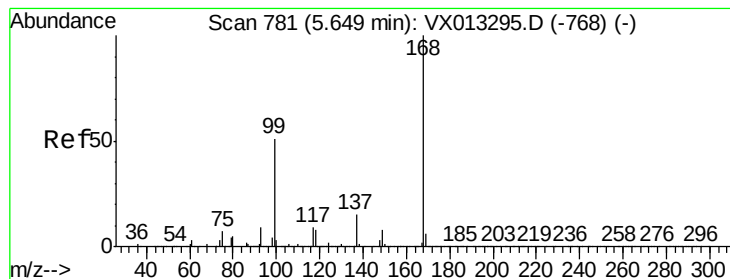
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

Instrument :

MSVOA_X

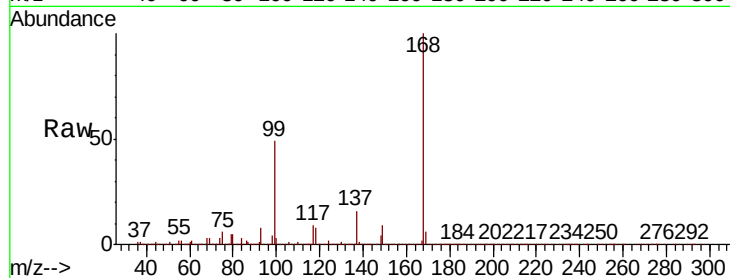
ClientSampleId :

Tot Ion:168 Resp: 738719

Ion Ratio Lower Upper

168 100

99 48.8 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

300000

250000

200000

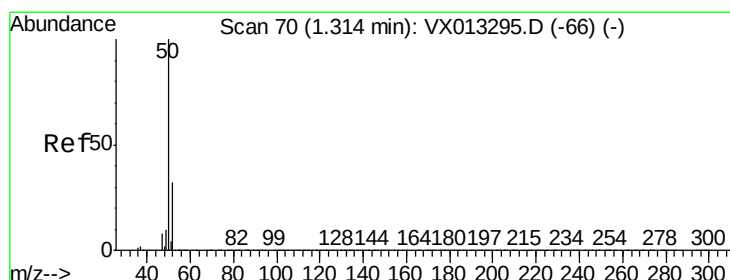
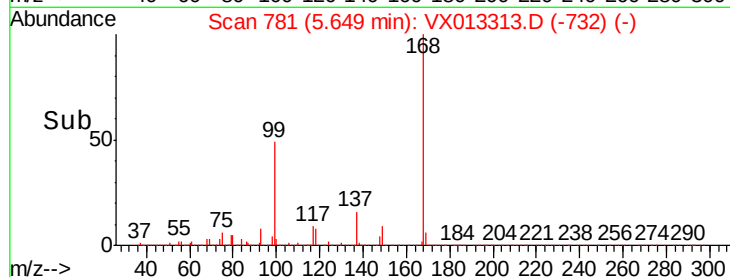
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.325 ug/l

RT: 1.27 min Scan# 62

Delta R.T. -0.05 min

Lab File: VX013313.D

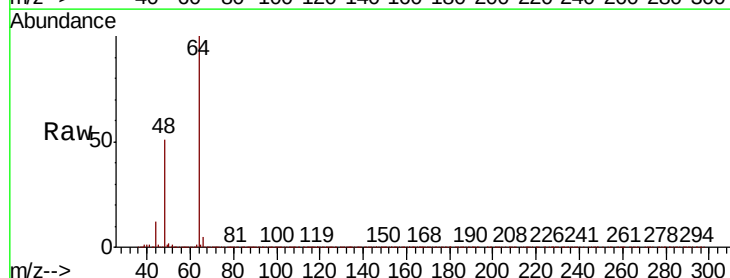
Acq: 01 Nov 2019 15:54

Tgt Ion: 50 Resp: 3002

Ion Ratio Lower Upper

50 100

52 18.1 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.27

2500

2000

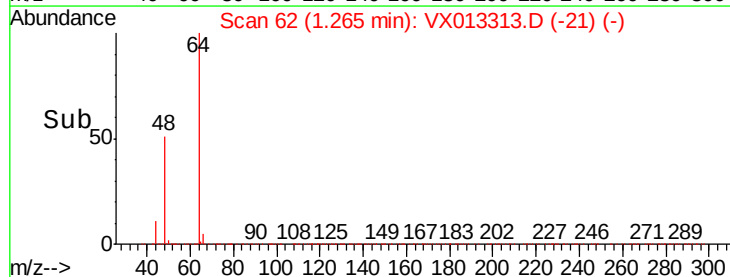
1500

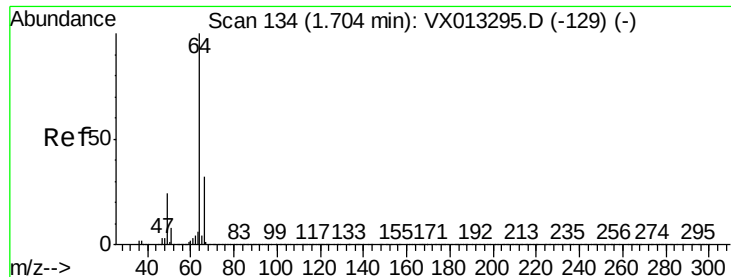
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 146

Delta R.T. 0.07 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

Instrument :

MSVOA_X

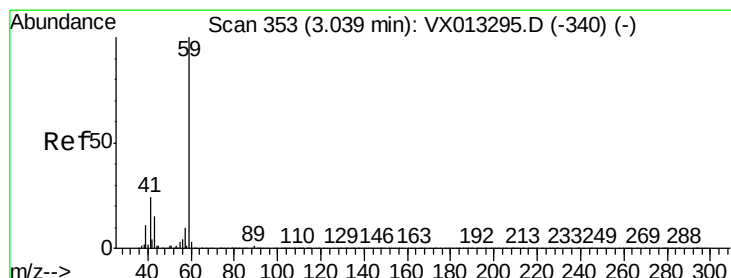
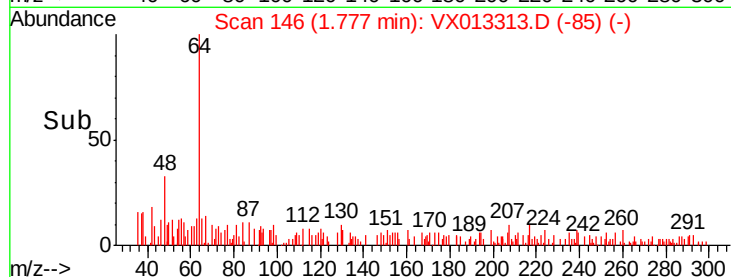
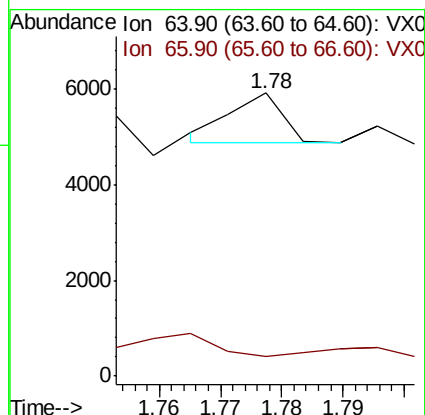
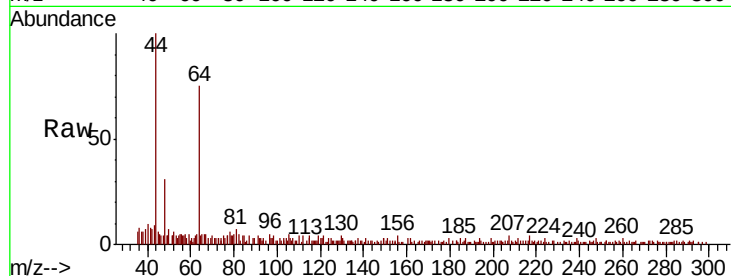
ClientSampleId :

Tot Ion: 64 Resp: 603

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 8.495 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX013313.D

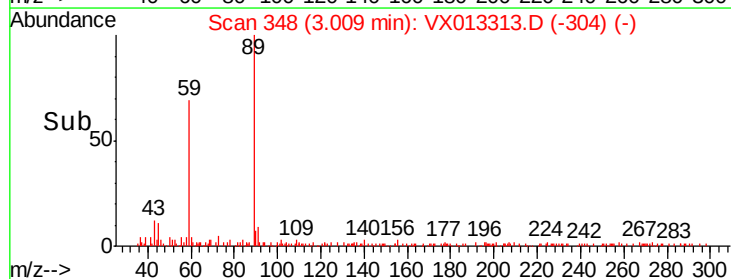
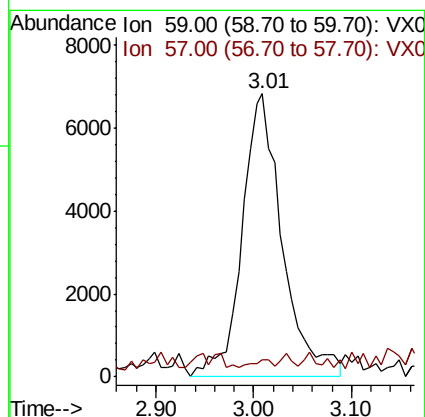
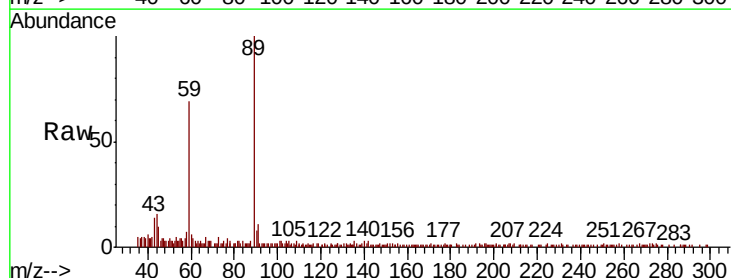
Acq: 01 Nov 2019 15:54

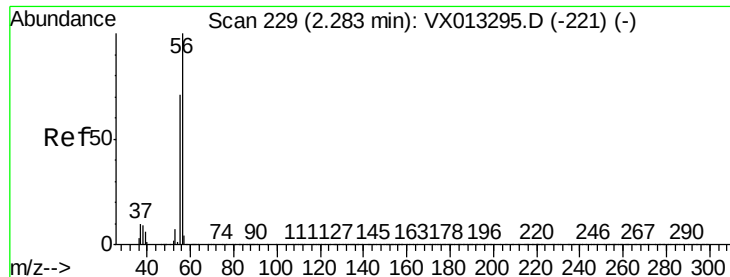
Tgt Ion: 59 Resp: 19596

Ion Ratio Lower Upper

59 100

57 0.7 8.0 12.0#





#13

Acrolein

Concen: 0.270 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

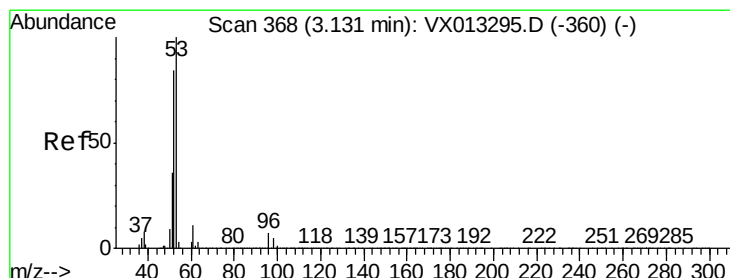
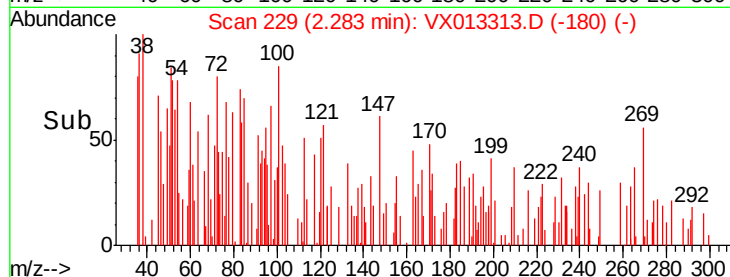
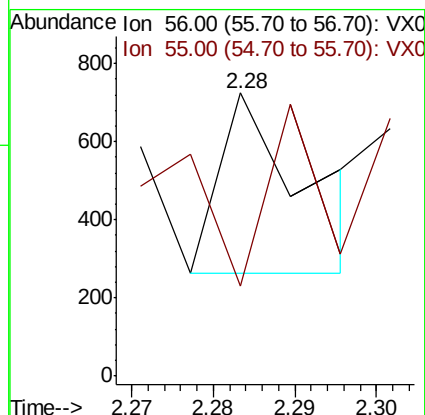
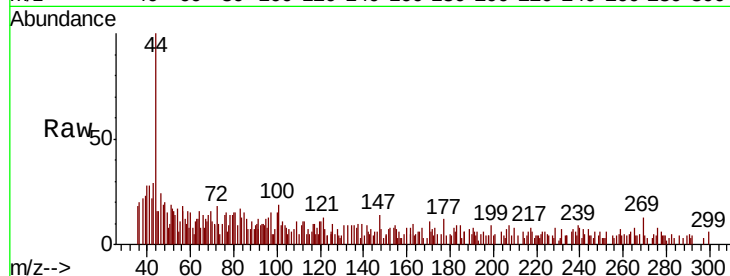
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 337

Ion Ratio Lower Upper

56 100

55 114.2 57.4 86.0#



#15

Acrylonitrile

Concen: 0.309 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

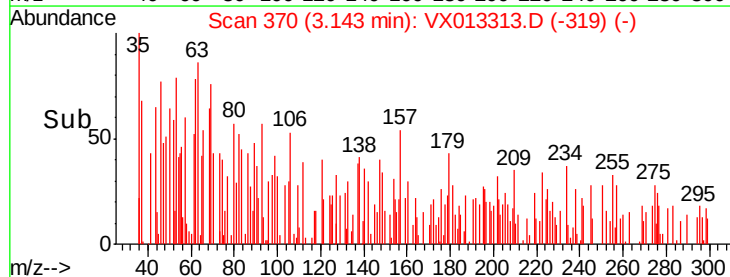
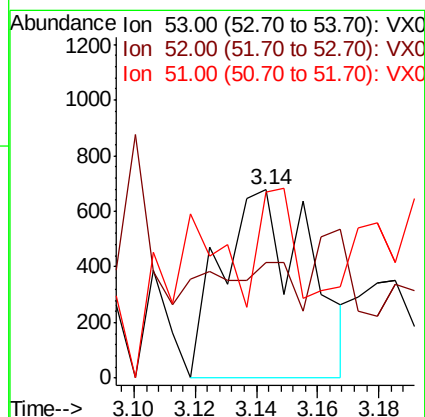
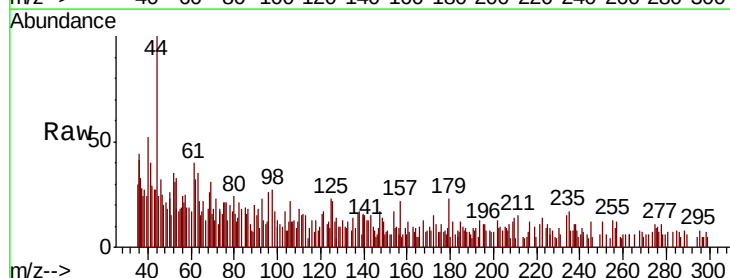
Tgt Ion: 53 Resp: 1332

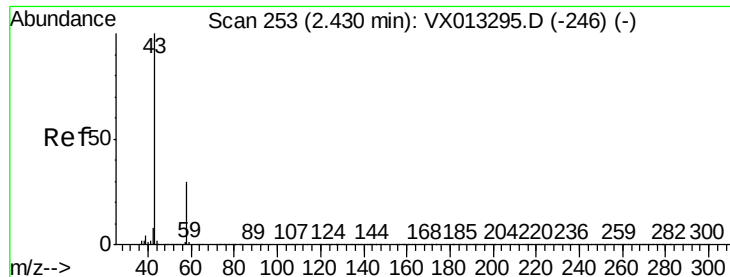
Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

51 37.9 29.4 44.2

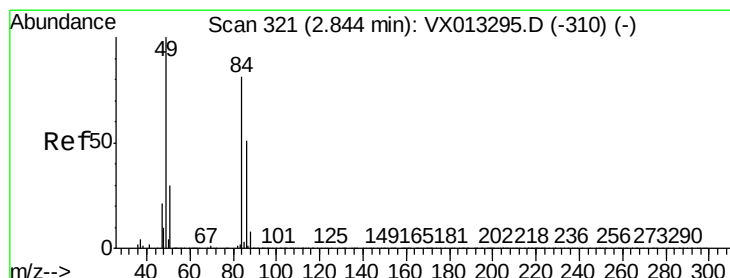
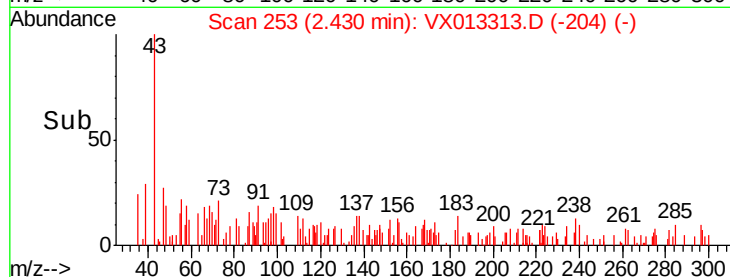
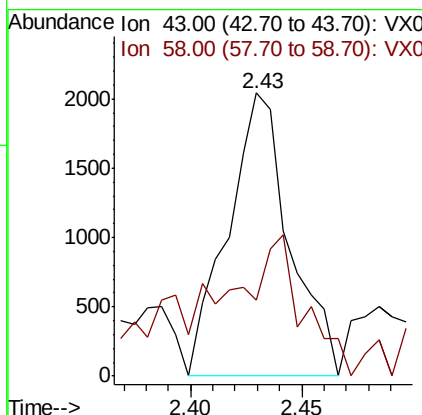
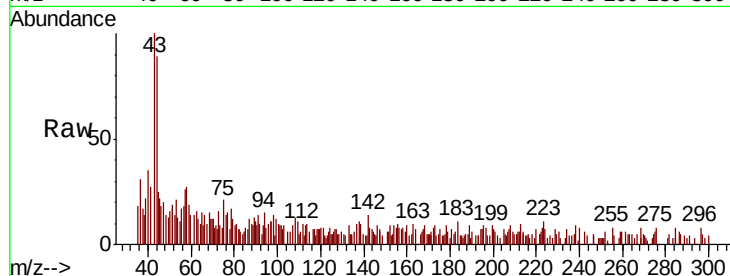




#16
Acetone
Concen: 0.906 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

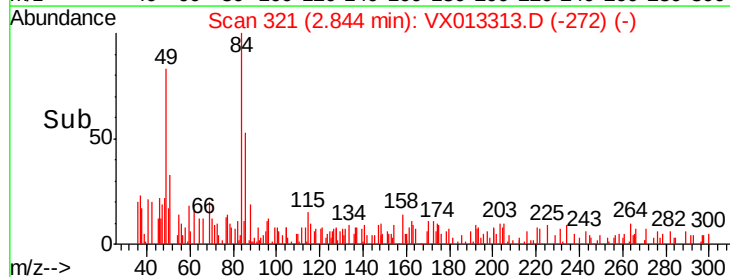
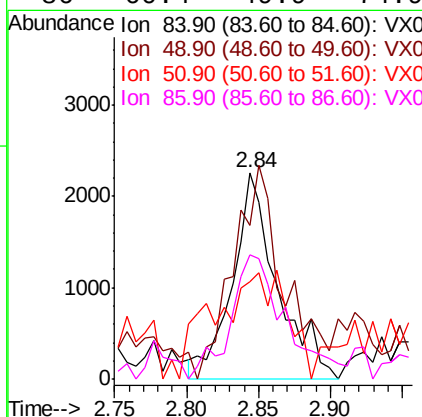
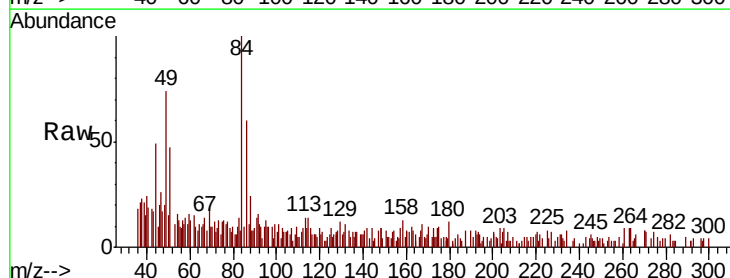
Instrument :
MSVOA_X
ClientSampled :

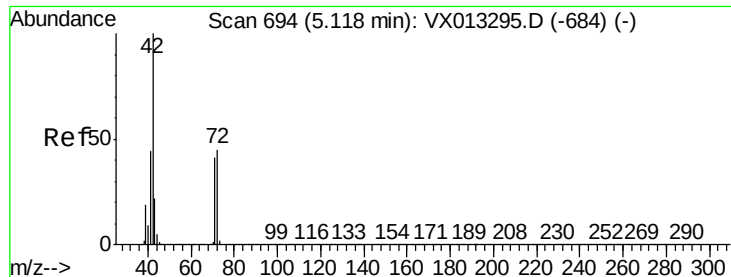
Tot Ion: 43 Resp: 3956
Ion Ratio Lower Upper
43 100
58 13.2 24.3 36.5#



#20
Methylene Chloride
Concen: 0.606 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

Tgt Ion: 84 Resp: 4885
Ion Ratio Lower Upper
84 100
49 61.2 98.2 147.4#
51 31.8 29.9 44.9
86 60.4 49.9 74.9





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

Instrument :

MSVOA_X

ClientSampled :

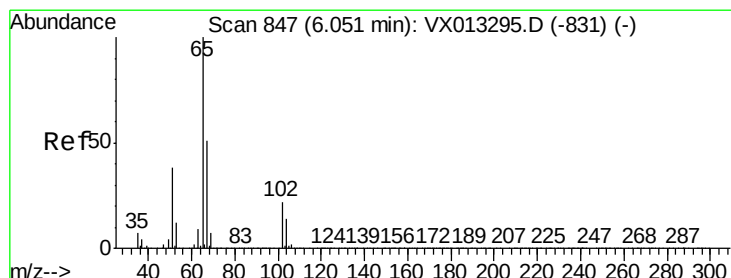
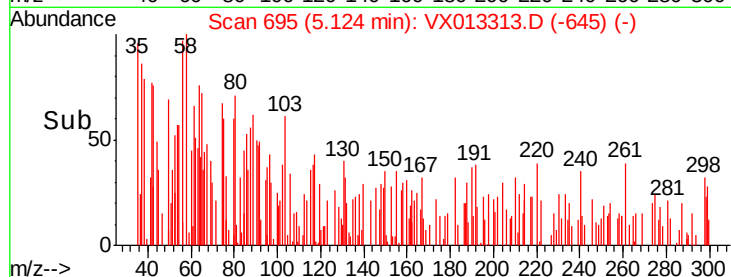
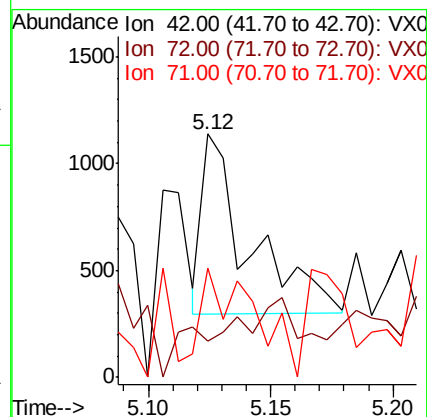
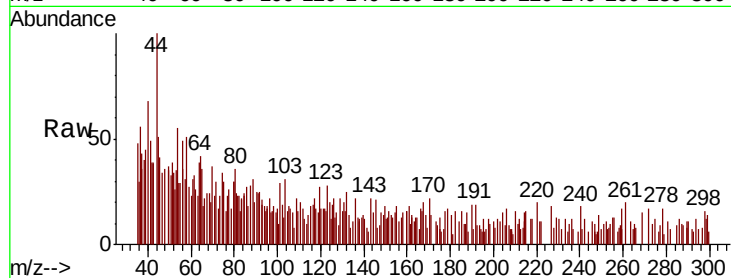
Tot Ion: 42 Resp: 1107

Ion Ratio Lower Upper

42 100

72 20.3 35.8 53.8#

71 46.2 33.4 50.0



#33

1,2-Dichloroethane-d4

Concen: 47.216 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013313.D

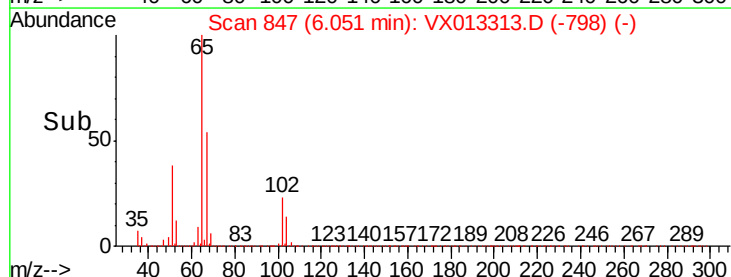
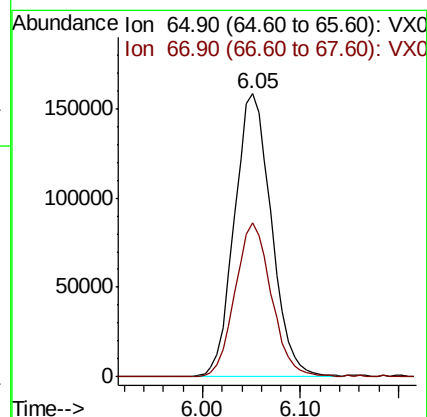
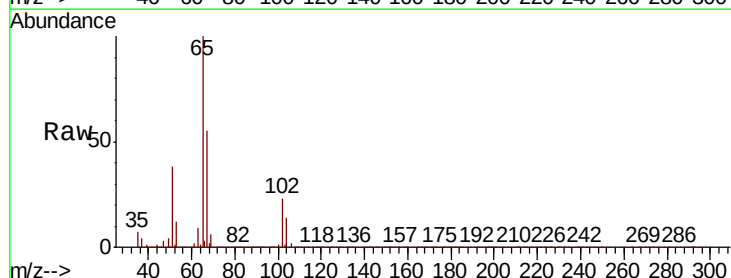
Acq: 01 Nov 2019 15:54

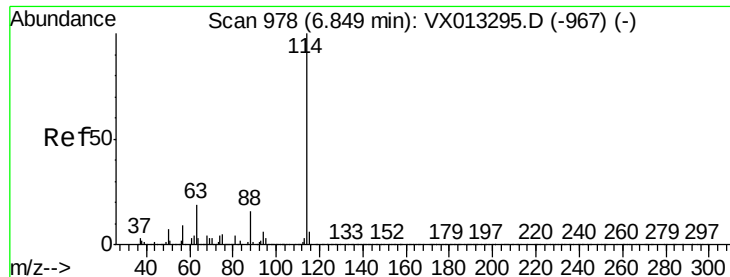
Tgt Ion: 65 Resp: 413217

Ion Ratio Lower Upper

65 100

67 53.0 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: VX013313.D

Acq: 01 Nov 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

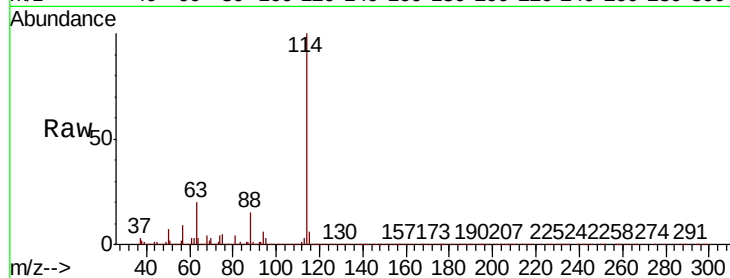
Tot Ion:114 Resp: 1124820

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

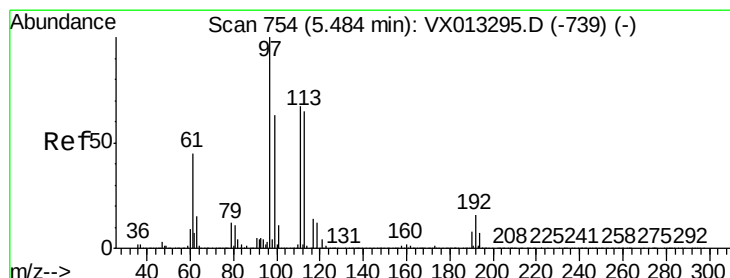
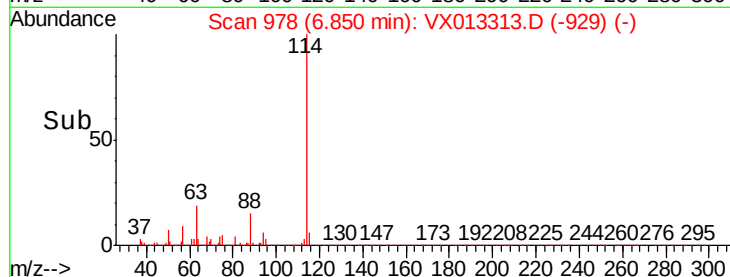
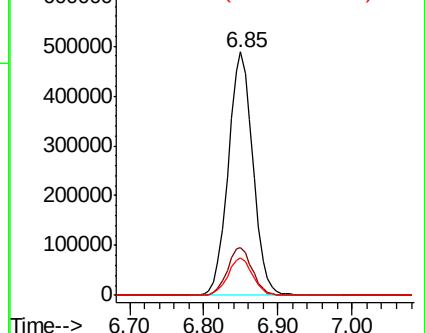
88 15.3 0.0 32.2



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: 47.991 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

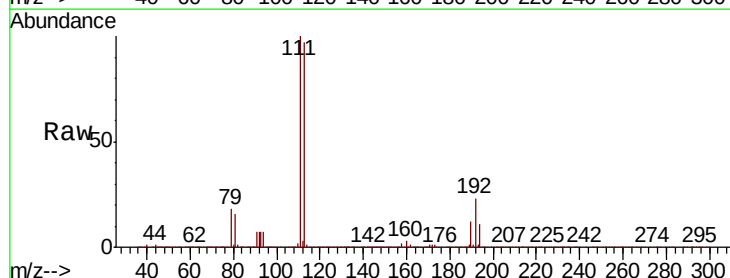
Tgt Ion:113 Resp: 338579

Ion Ratio Lower Upper

113 100

111 101.5 81.9 122.9

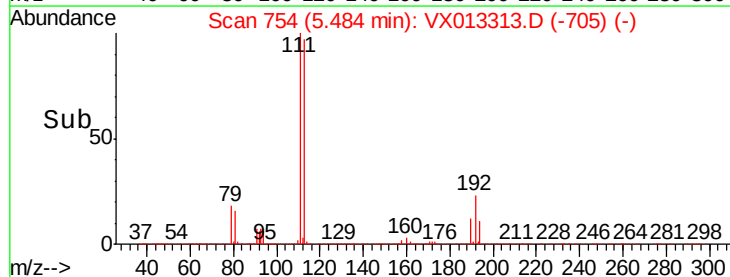
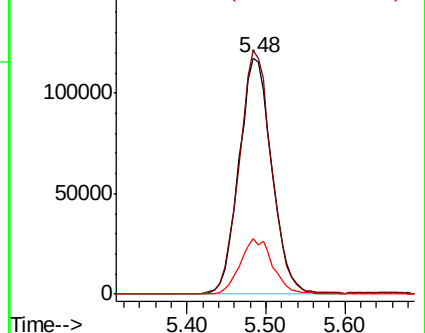
192 23.2 19.1 28.7

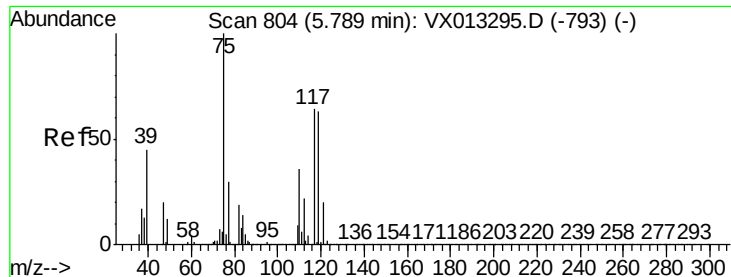


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

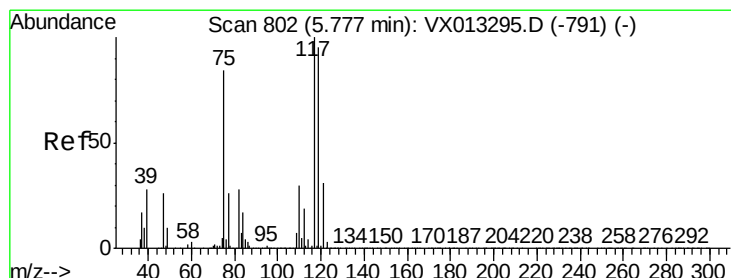
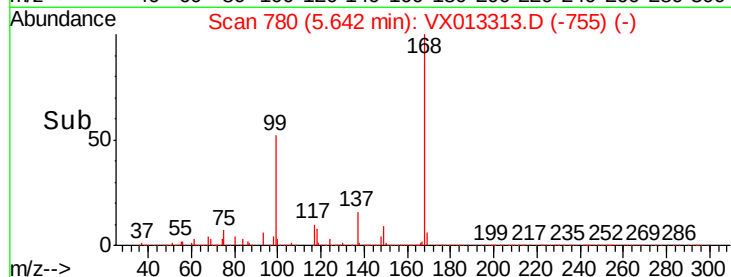
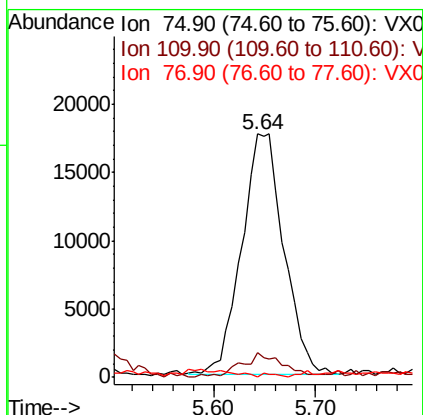
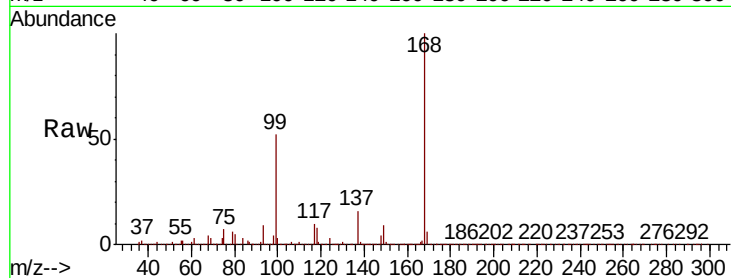




#36
 1,1-Dichloropropene
 Concen: 5.220 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX013313.D
 Acq: 01 Nov 2019 15:54

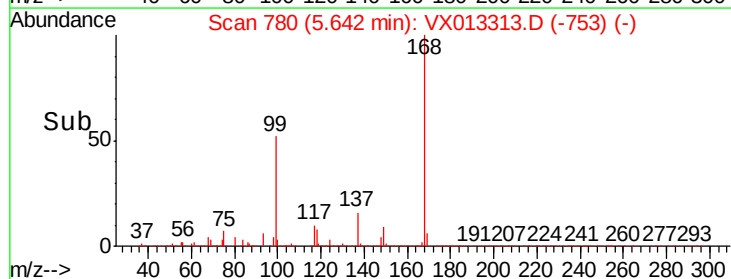
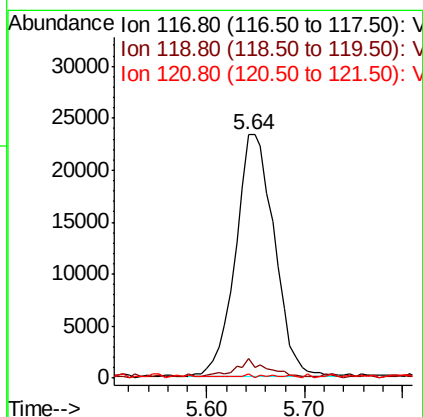
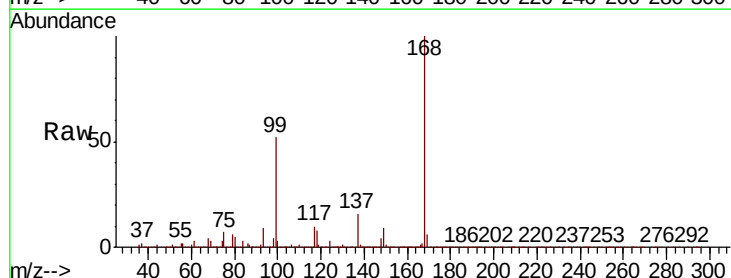
Instrument :
 MSVOA_X
 ClientSampleId :

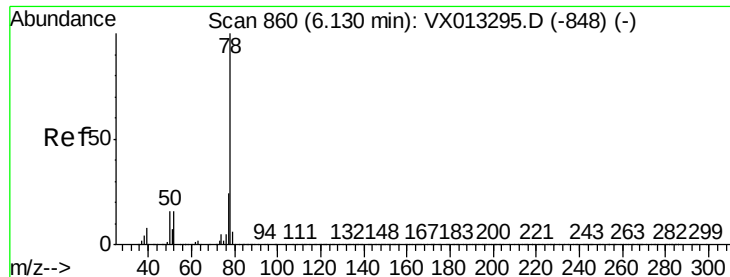
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.3	18.1	54.1#
77	0.7	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.859 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX013313.D
 Acq: 01 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.2	76.1	114.1#
121	0.8	24.6	37.0#





#40

Benzene

Concen: 0.543 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

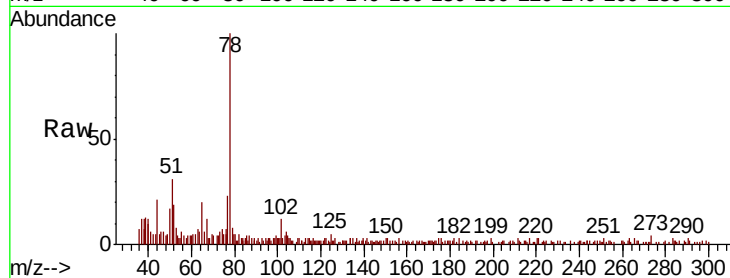
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 78 Resp: 16330

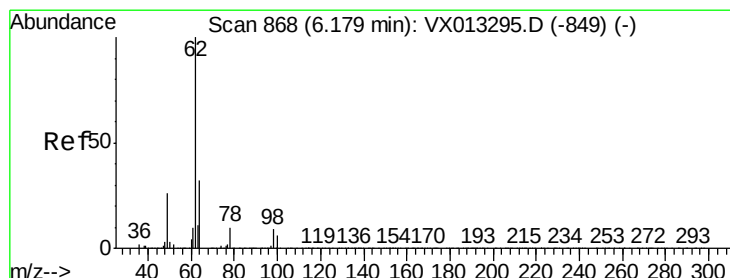
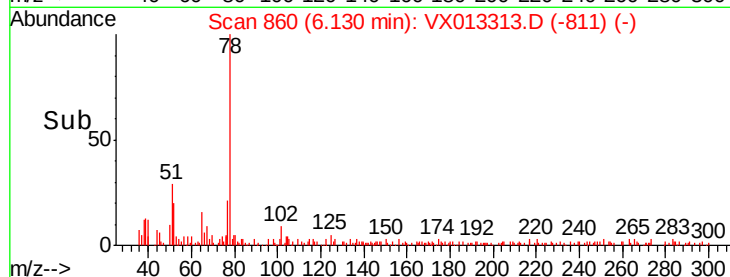
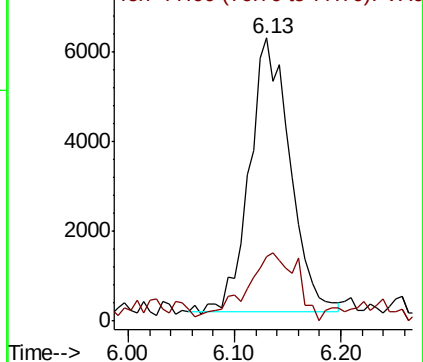
Ion Ratio Lower Upper

78 100

77 19.3 19.5 29.3#



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 0.207 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX013313.D

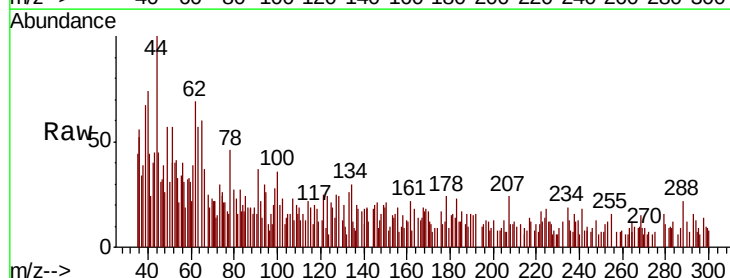
Acq: 01 Nov 2019 15:54

Tgt Ion: 62 Resp: 2246

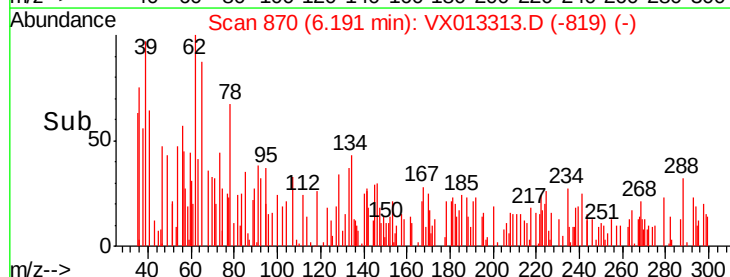
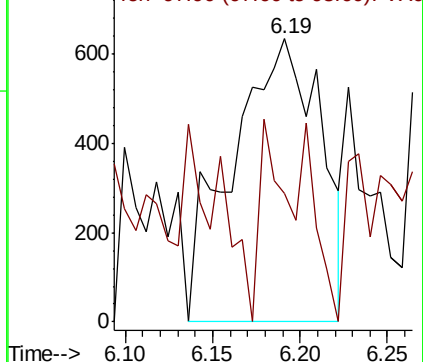
Ion Ratio Lower Upper

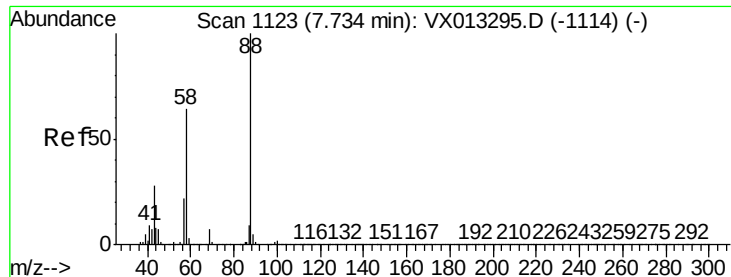
62 100

98 21.0 0.0 19.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 2.186 ug/l

RT: 7.78 min Scan# 1130

Delta R.T. 0.04 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

Instrument :
MSVOA_X
ClientSampled :

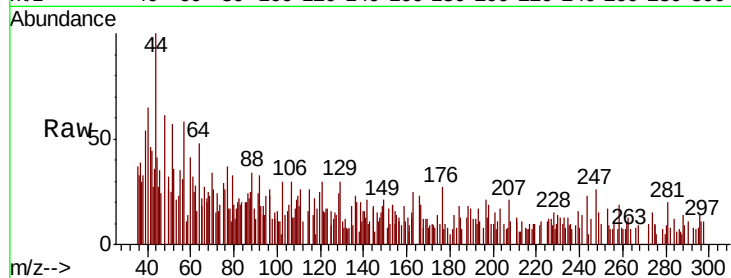
Tot Ion: 88 Resp: 464

Ion Ratio Lower Upper

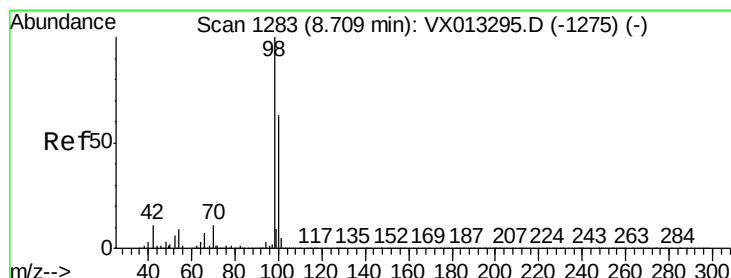
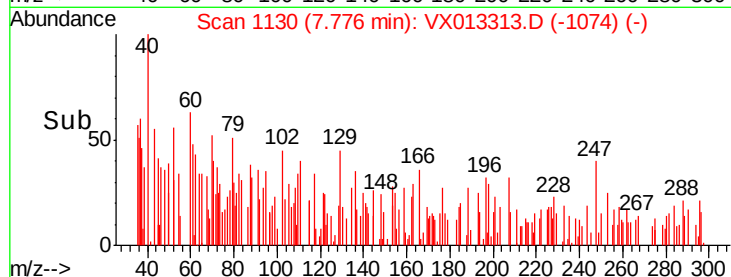
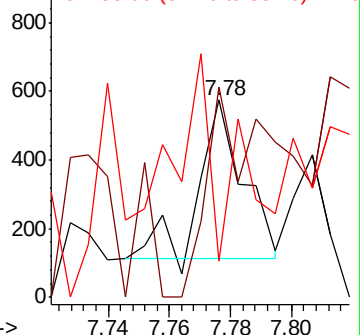
88 100

43 92.5 26.6 39.8#

58 94.2 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: 49.836 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013313.D

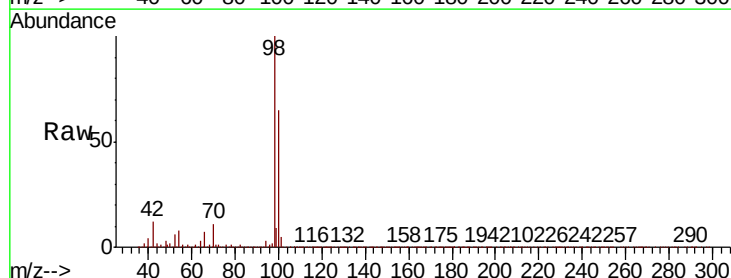
Acq: 01 Nov 2019 15:54

Tgt Ion: 98 Resp: 1325467

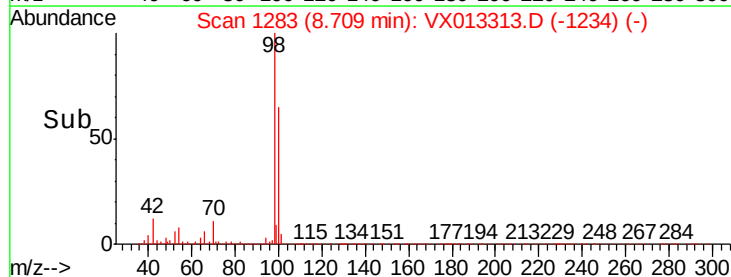
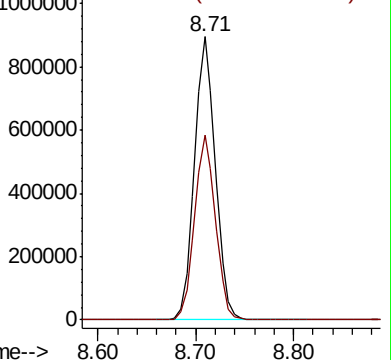
Ion Ratio Lower Upper

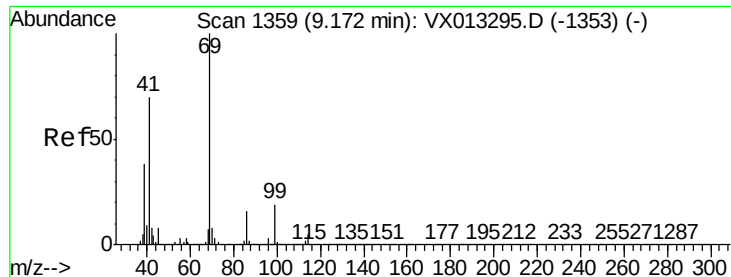
98 100

100 65.3 52.2 78.2



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

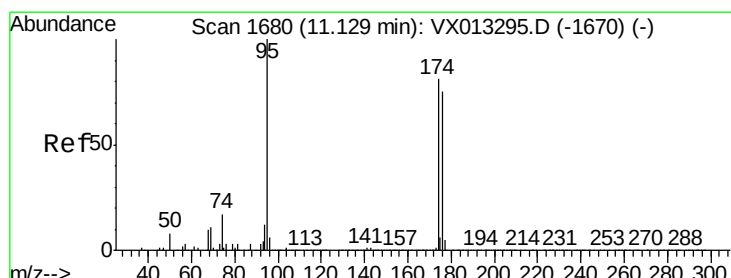
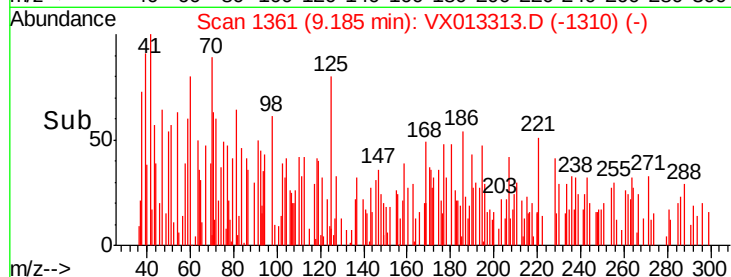
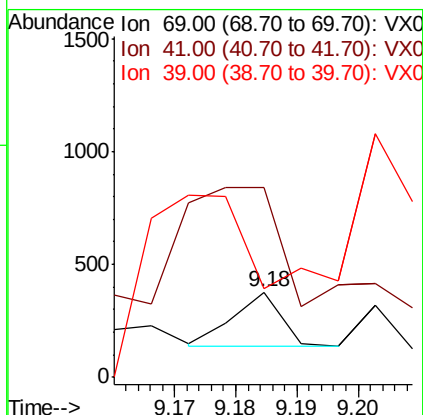
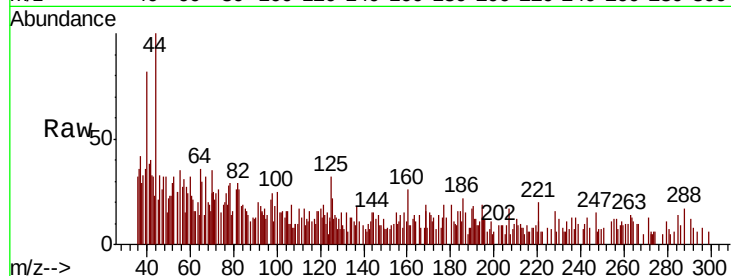




#56
Ethyl methacrylate
Concen: 1.572 ug/l
RT: 9.18 min Scan# 1361
Delta R.T. 0.01 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

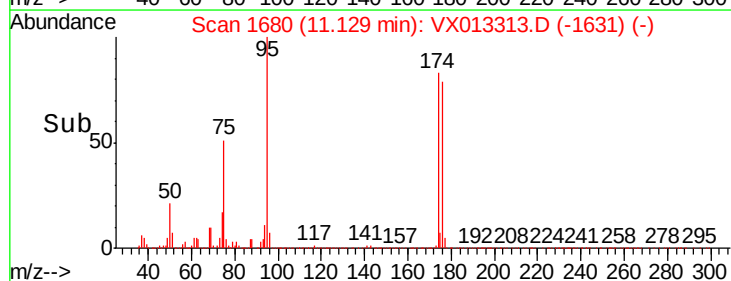
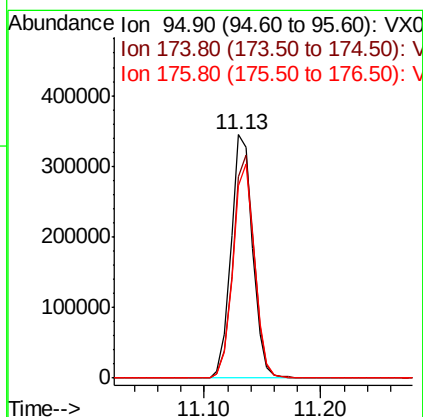
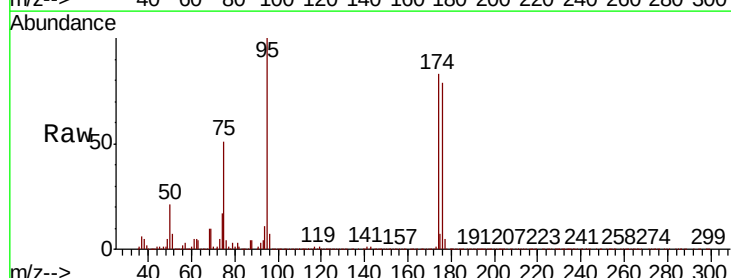
Instrument :
MSVOA_X
ClientSampled :

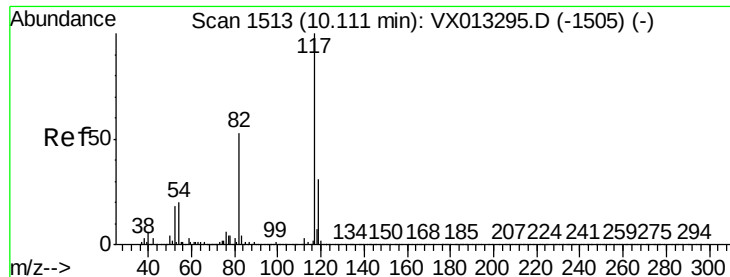
Tot Ion: 69 Resp: 128
Ion Ratio Lower Upper
69 100
41 439.1 56.2 84.2#
39 772.7 31.1 46.7#



#62
4-Bromofluorobenzene
Concen: 46.336 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

Tgt Ion: 95 Resp: 444771
Ion Ratio Lower Upper
95 100
174 90.4 0.0 179.8
176 88.1 0.0 173.0

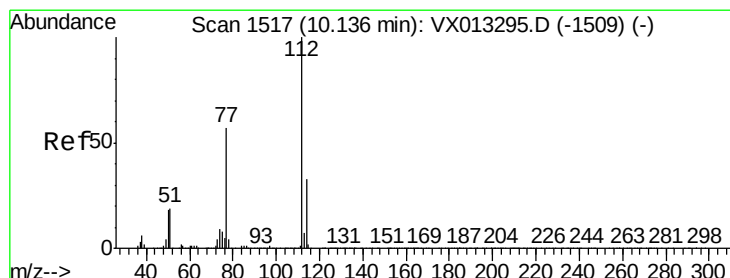
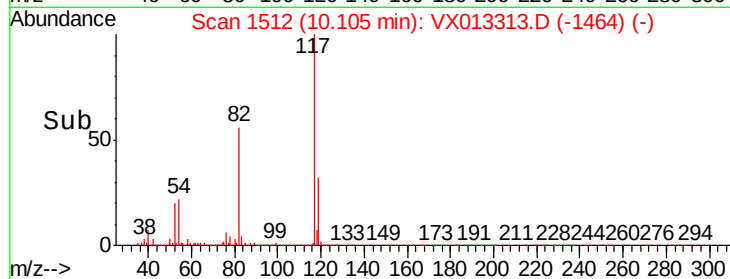
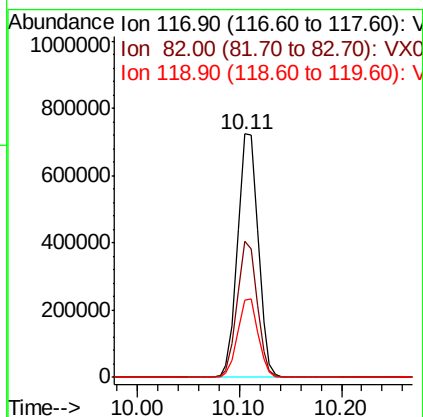
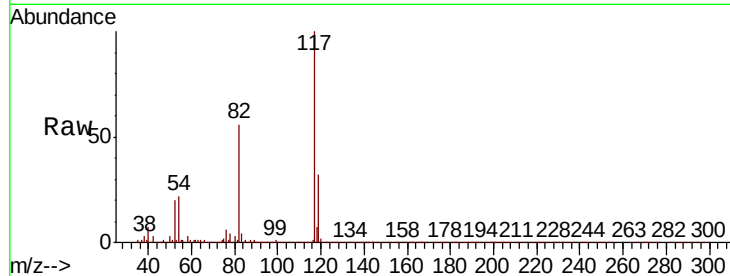




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

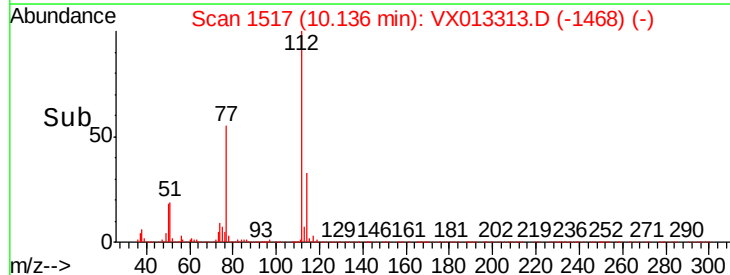
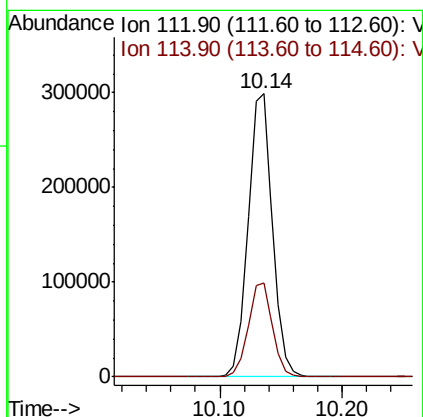
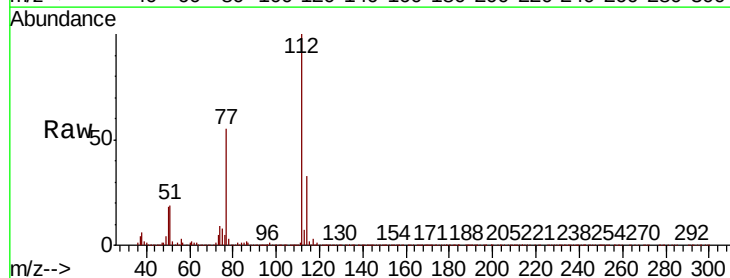
Instrument :
MSVOA_X
ClientSampleId :

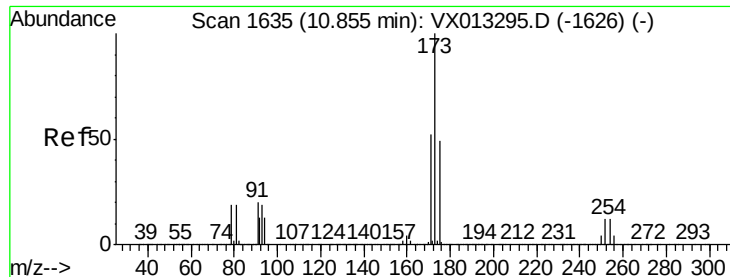
Tot Ion:117 Resp: 1003745
Ion Ratio Lower Upper
117 100
82 55.6 42.6 64.0
119 31.6 24.8 37.2



#65
Chlorobenzene
Concen: 20.349 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

Tgt Ion:112 Resp: 413524
Ion Ratio Lower Upper
112 100
114 33.2 26.4 39.6

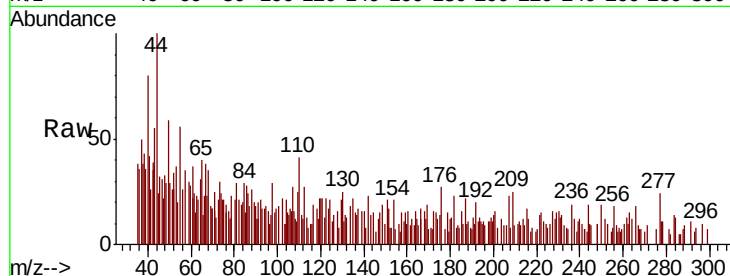




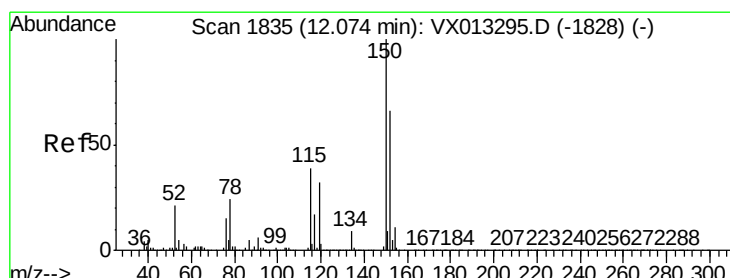
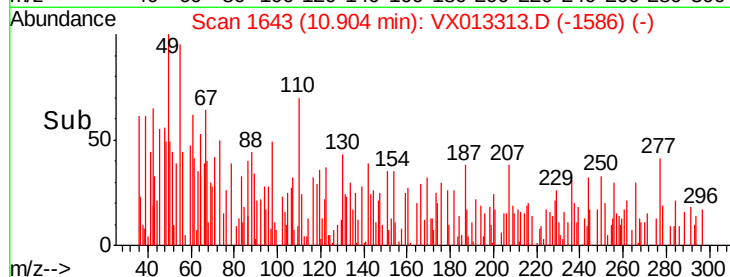
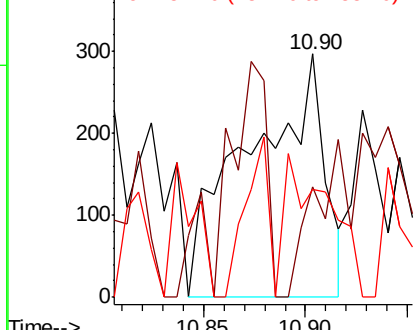
#71
Bromoform
Concen: 3.306 ug/l
RT: 10.90 min Scan# 1643
Delta R.T. 0.05 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:173 Resp: 764
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 34.6 0.2 0.2#

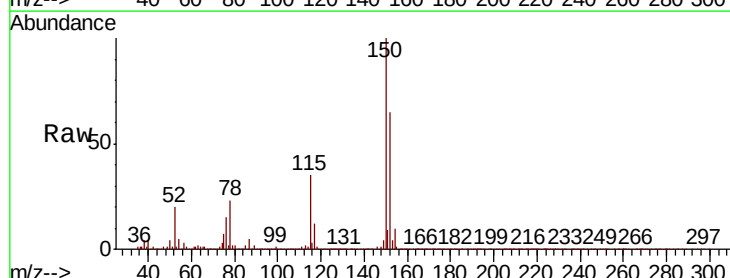


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

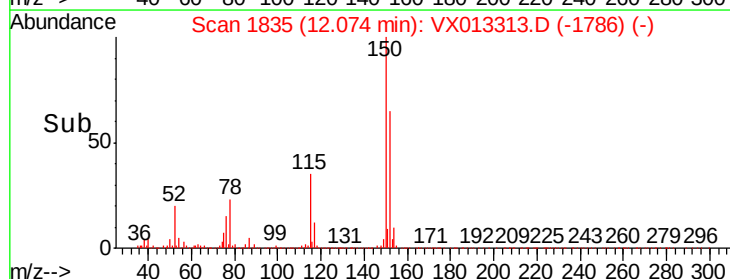
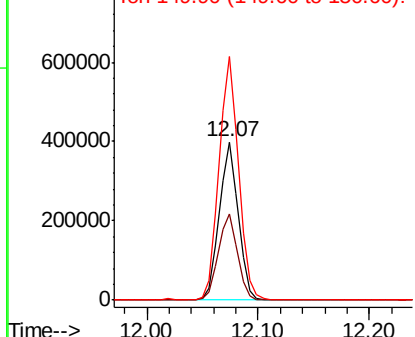


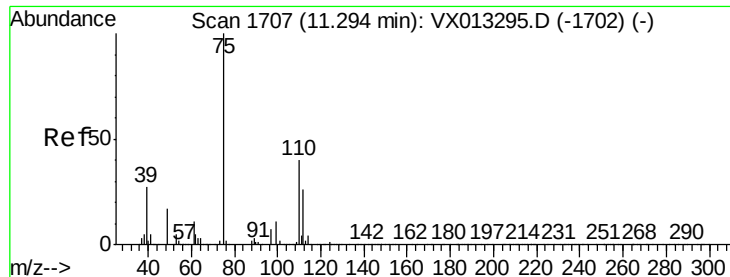
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013313.D
Acq: 01 Nov 2019 15:54

Tgt Ion:152 Resp: 469633
Ion Ratio Lower Upper
152 100
115 55.1 39.5 118.3
150 158.7 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: 23.616 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

Instrument :

MSVOA_X

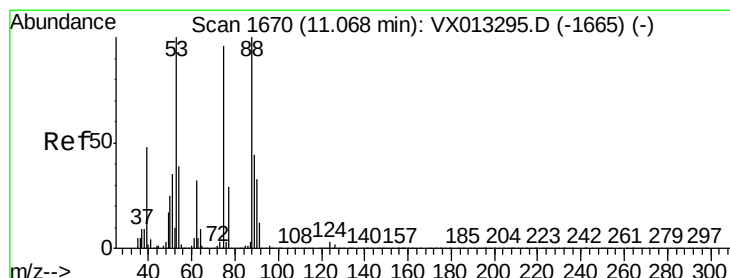
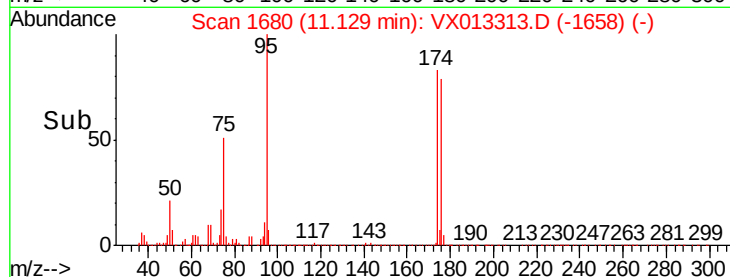
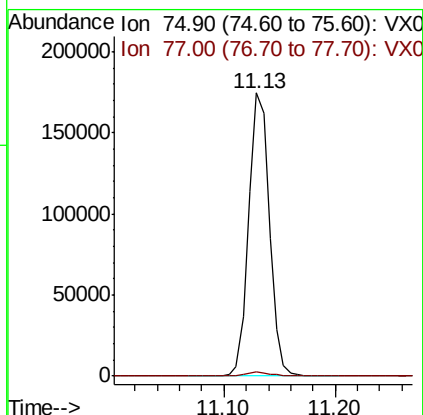
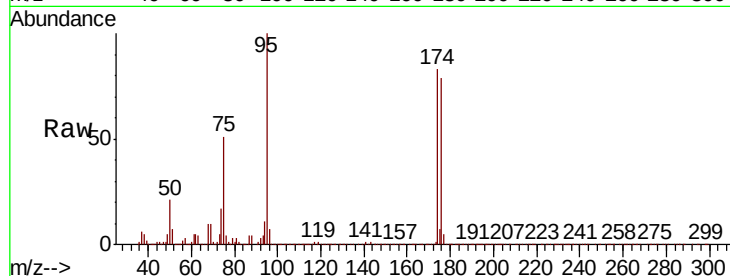
ClientSampleId :

Tot Ion: 75 Resp: 225265

Ion Ratio Lower Upper

75 100

77 1.6 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.786 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013313.D

Acq: 01 Nov 2019 15:54

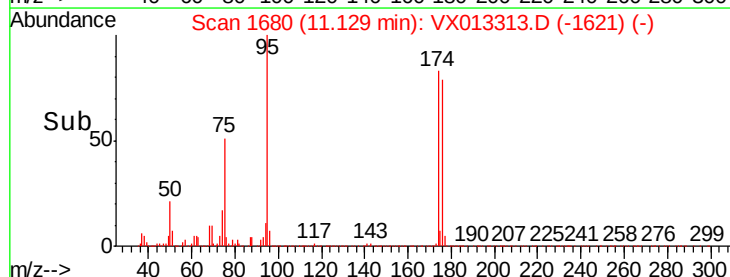
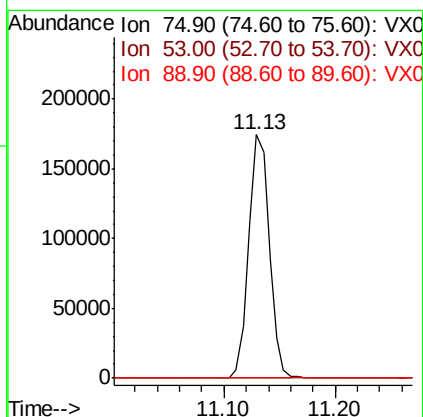
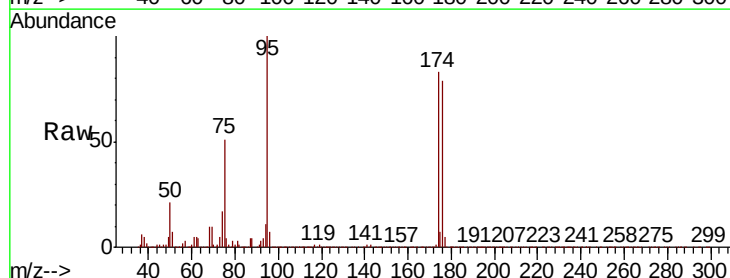
Tgt Ion: 75 Resp: 225265

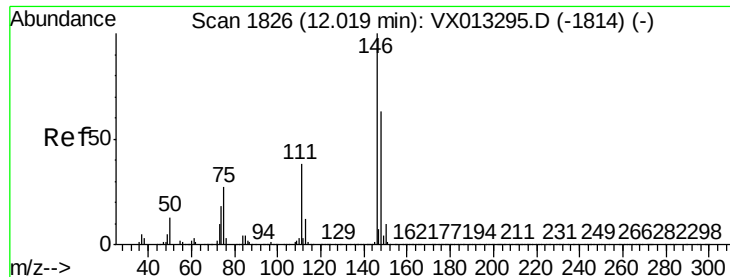
Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 36.0 54.0#

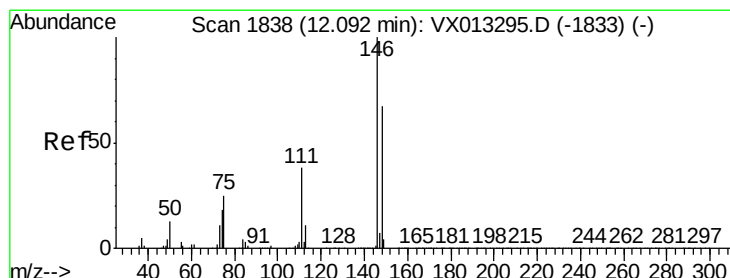
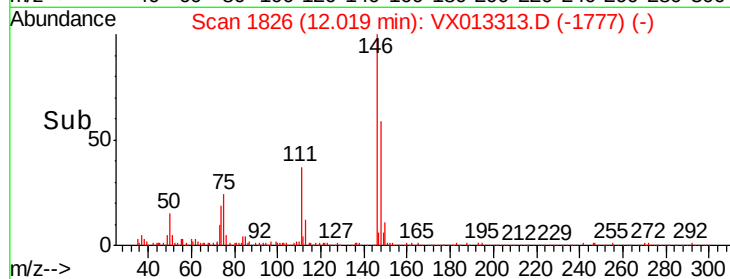
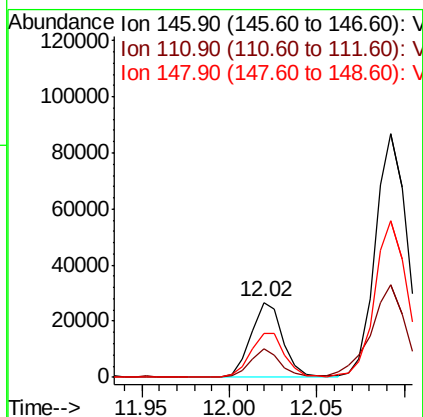
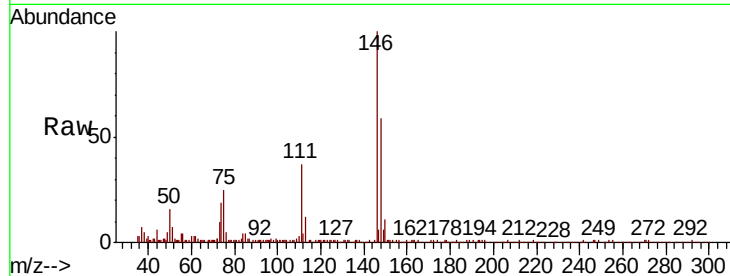




#87
 1,3-Dichlorobenzene
 Concen: 2.292 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: VX013313.D
 Acq: 01 Nov 2019 15:54

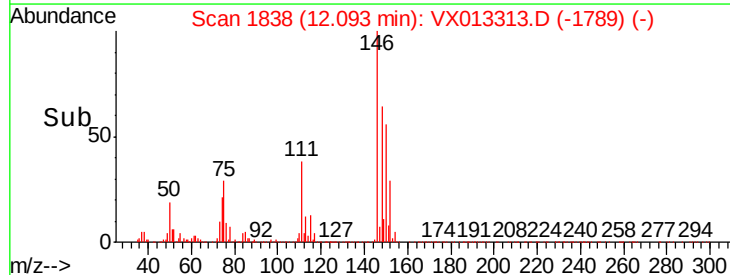
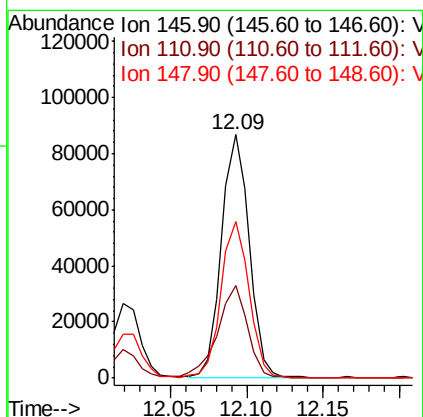
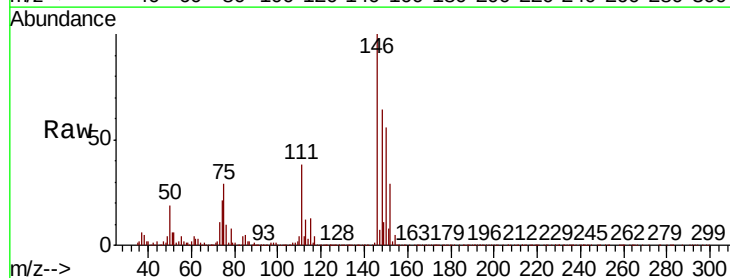
Instrument :
 MSVOA_X
 ClientSampleId :

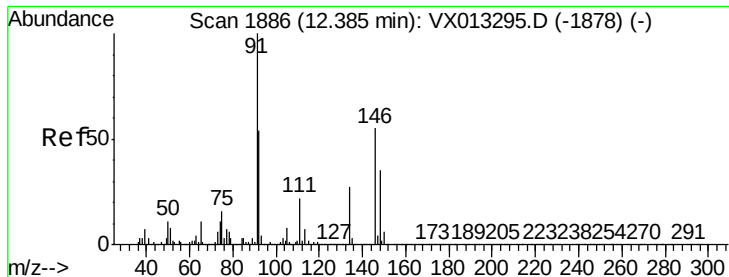
Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	18.9	56.5
148	63.4	31.9	95.7



#88
 1,4-Dichlorobenzene
 Concen: 7.209 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX013313.D
 Acq: 01 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	18.8	56.4
148	65.7	32.4	97.0

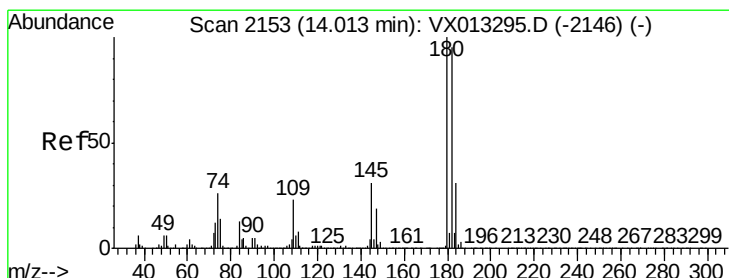
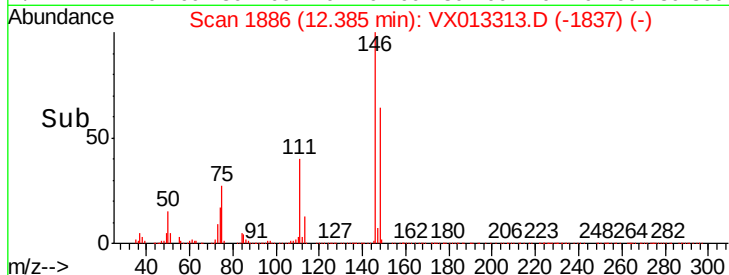
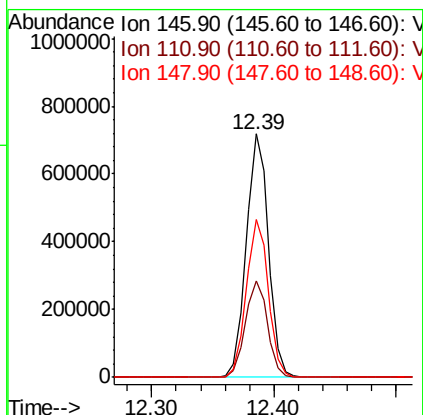
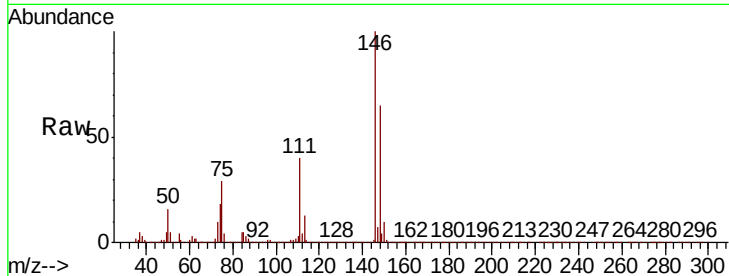




#91
 1,2-Dichlorobenzene
 Concen: 61.062 ug/l
 RT: 12.39 min Scan# 1886
 Delta R.T. 0.00 min
 Lab File: VX013313.D
 Acq: 01 Nov 2019 15:54

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.1	60.2
148	64.4	32.0	96.0



#96
 1,2,3-Trichlorobenzene
 Concen: 0.208 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX013313.D
 Acq: 01 Nov 2019 15:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.0	144.2
145	60.2	15.4	46.4

