

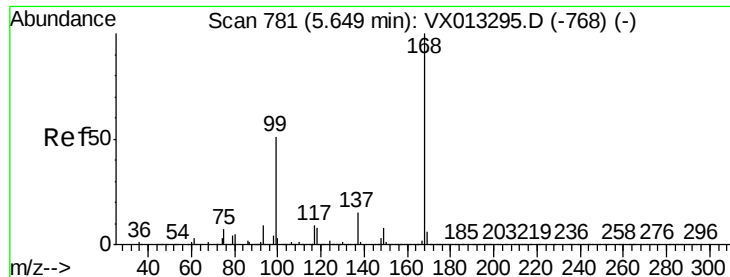
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111319\
 Data File : VX013407.D
 Acq On : 13 Nov 2019 15:08
 Operator : JC/SP
 Sample : K5802-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 14 04:35:58 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	741891	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1162621	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1030686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	471134	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	423765	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
35) Dibromofluoromethane	5.48	113	352180	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
50) Toluene-d8	8.71	98	1380698	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.13	95	462980	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	3078	0.360	ug/l	86
3) Chloromethane	1.32	50	2421	0.261	ug/l	97
4) Vinyl Chloride	1.40	62	40422	3.830	ug/l	99
6) Chloroethane	1.67	64	1753	Below Cal	#	43
8) Diethyl Ether	2.23	74	1143	0.207	ug/l	99
11) Tert butyl alcohol	3.02	59	7435	3.209	ug/l	# 61
13) Acrolein	2.28	56	348	0.277	ug/l	# 1
15) Acrylonitrile	3.14	53	3092	0.715	ug/l	# 78
16) Acetone	2.43	43	18307	4.176	ug/l	# 87
21) trans-1,2-Dichloroethene	3.16	96	6065	0.819	ug/l	# 79
25) 2-Butanone	4.69	43	2881	0.448	ug/l	# 79
27) cis-1,2-Dichloroethene	4.58	96	19198	2.313	ug/l	88
36) 1,1-Dichloropropene	5.65	75	47198	4.732	ug/l	# 52
38) Carbon Tetrachloride	5.65	117	64232	6.586	ug/l	# 16
44) Trichloroethene	7.21	130	6906	0.808	ug/l	98
49) 1,4-Dioxane	7.73	88	384	1.750	ug/l	# 1
56) Ethyl methacrylate	9.19	69	578	1.604	ug/l	# 72
59) 2-Hexanone	9.51	43	1966	0.202	ug/l	69
71) Bromoform	10.85	173	116	3.218	ug/l	# 28
73) Isopropylbenzene	11.01	105	7093	0.227	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	226512	23.671	ug/l	# 34
81) trans-1,4-Dichloro-2-buten	11.13	75	226512	60.927	ug/l	# 9
90) Hexachloroethane	12.70	117	3436	0.696	ug/l	# 12

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

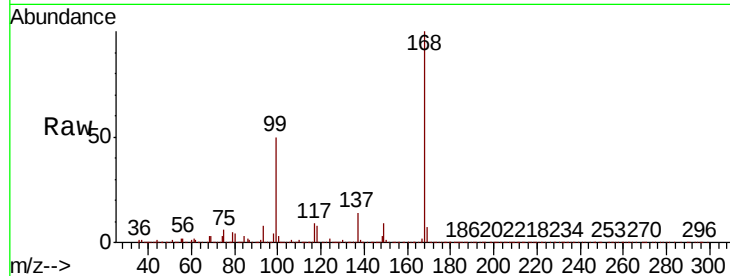


#1

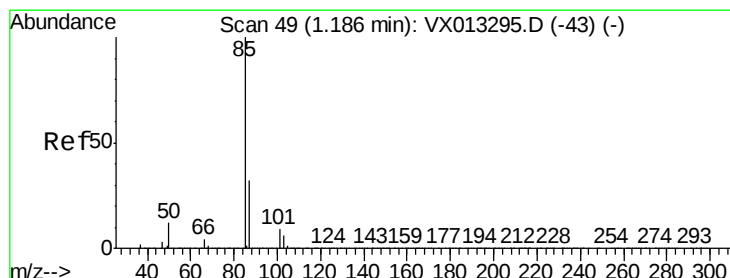
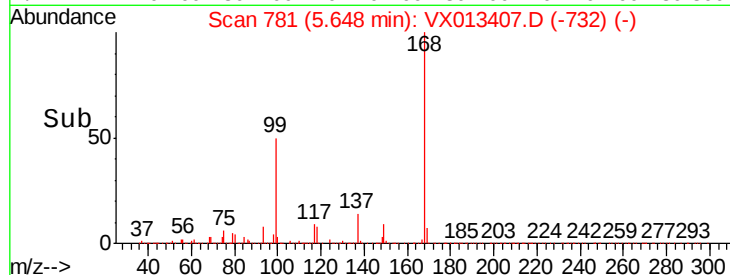
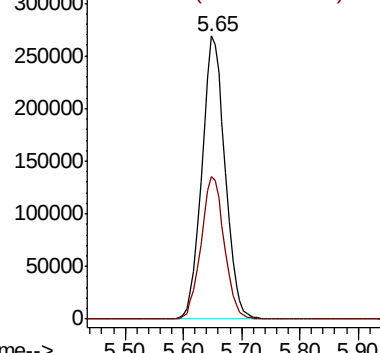
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 741891
Ion Ratio Lower Upper
168 100
99 50.3 40.8 61.2



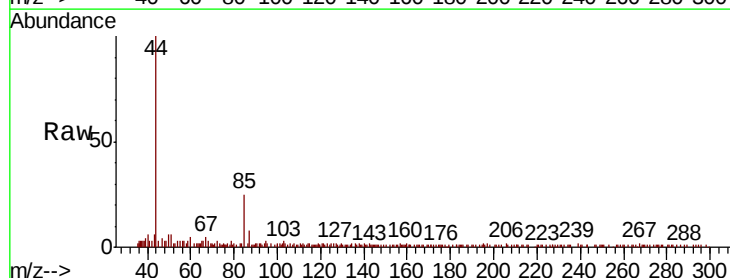
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



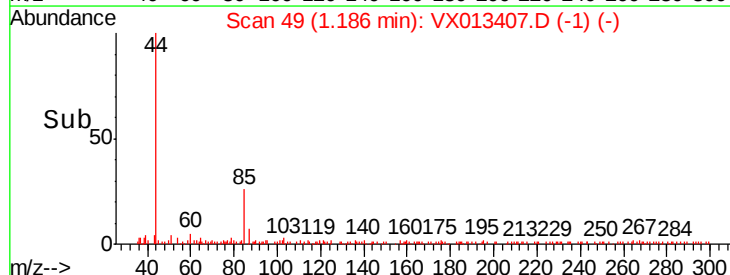
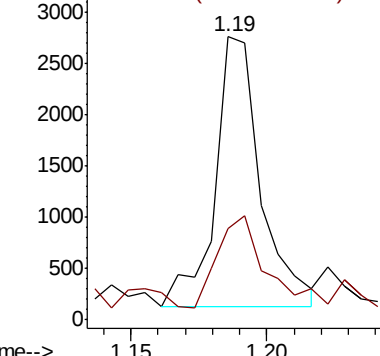
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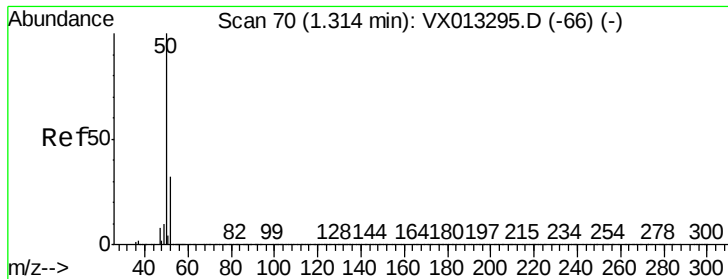
Dichlorodifluoromethane
Concen: 0.360 ug/l
RT: 1.19 min Scan# 49
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Tgt Ion: 85 Resp: 3078
Ion Ratio Lower Upper
85 100
87 23.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0
Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.261 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

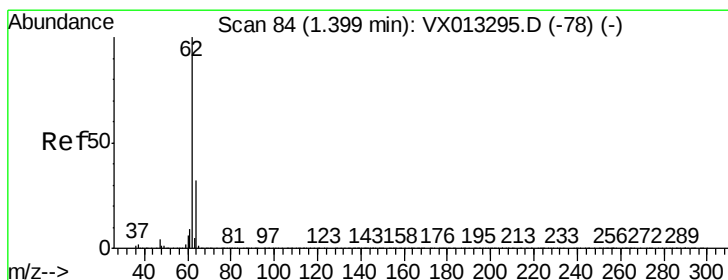
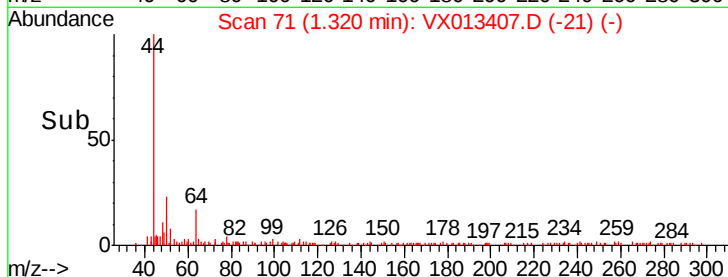
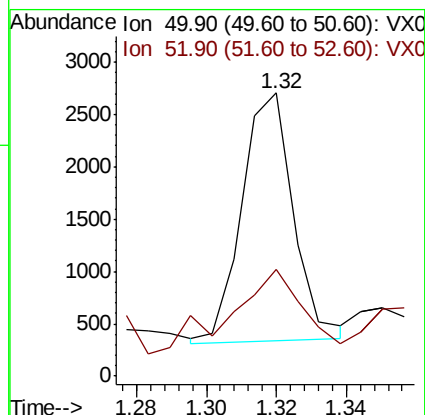
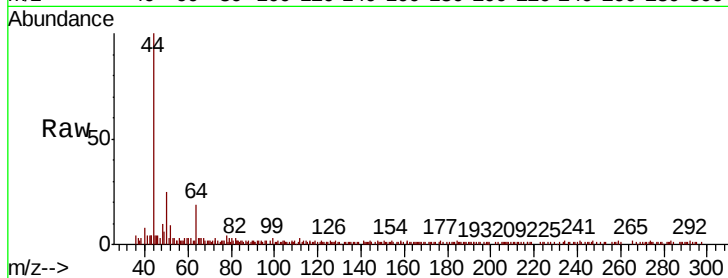
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 50 Resp: 2421

Ion Ratio Lower Upper

50 100

52 30.2 25.5 38.3



#4

Vinyl Chloride

Concen: 3.830 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013407.D

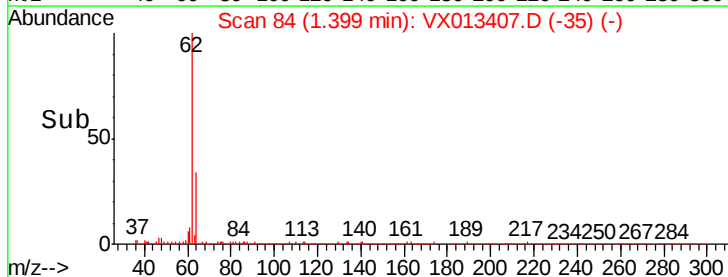
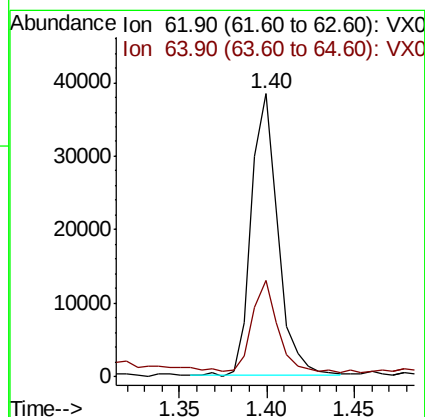
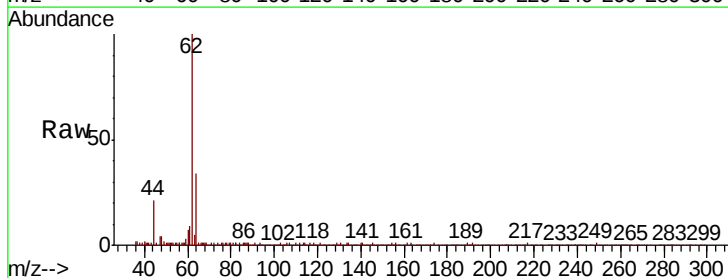
Acq: 13 Nov 2019 15:08

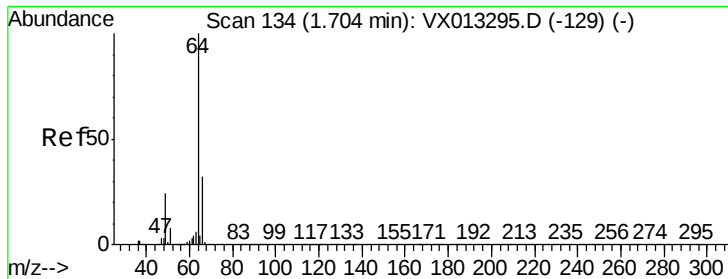
Tgt Ion: 62 Resp: 40422

Ion Ratio Lower Upper

62 100

64 32.5 25.6 38.4





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 129

Delta R.T. -0.03 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

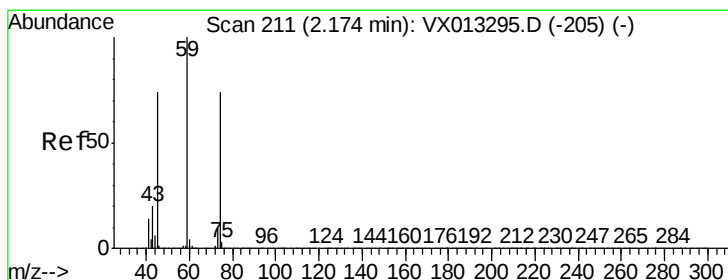
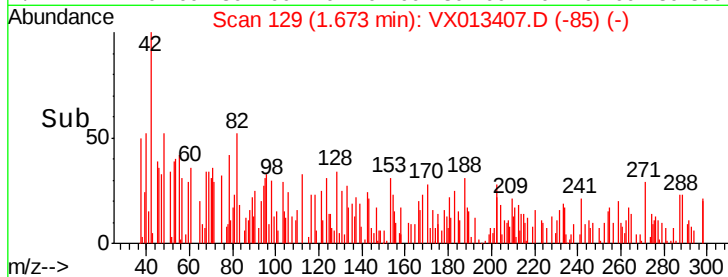
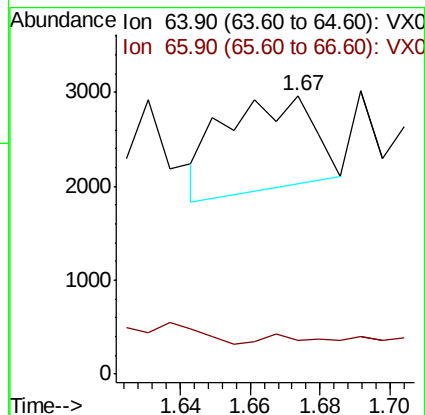
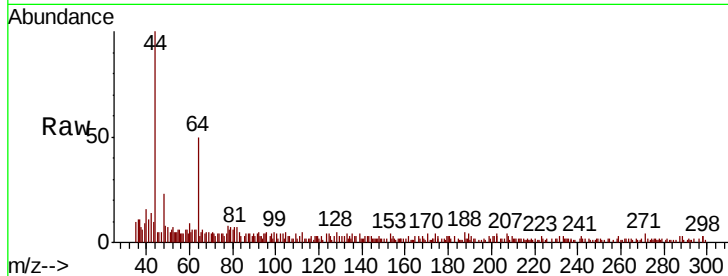
ClientSampleId :

Tot Ion: 64 Resp: 1753

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#8

Diethyl Ether

Concen: 0.207 ug/l

RT: 2.23 min Scan# 221

Delta R.T. 0.06 min

Lab File: VX013407.D

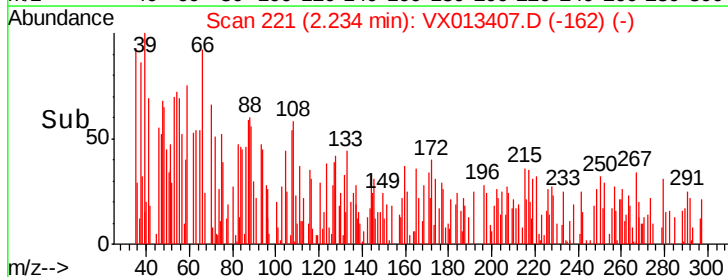
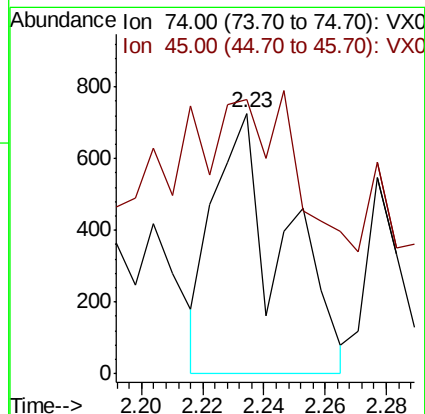
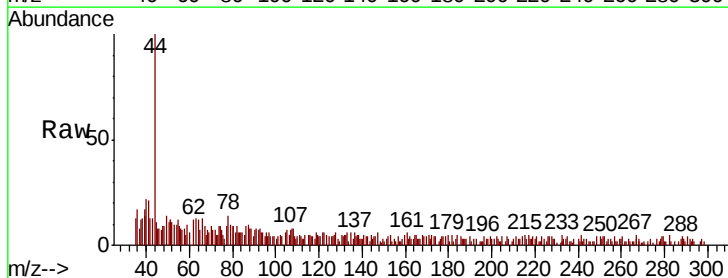
Acq: 13 Nov 2019 15:08

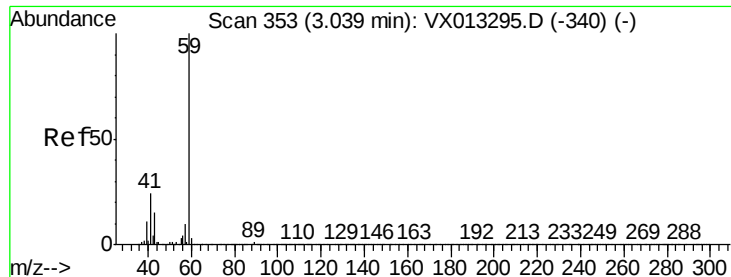
Tgt Ion: 74 Resp: 1143

Ion Ratio Lower Upper

74 100

45 96.6 48.5 145.6

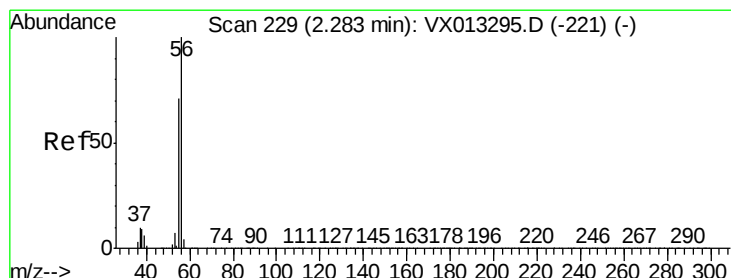
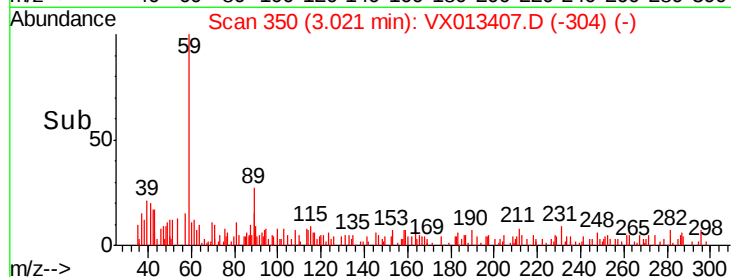
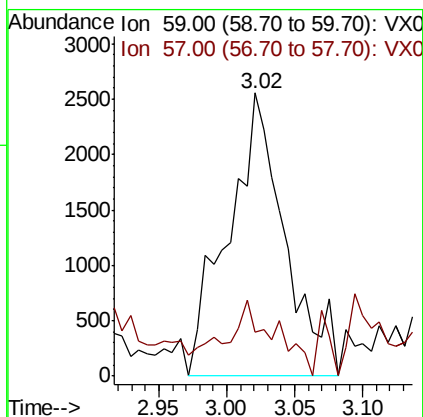
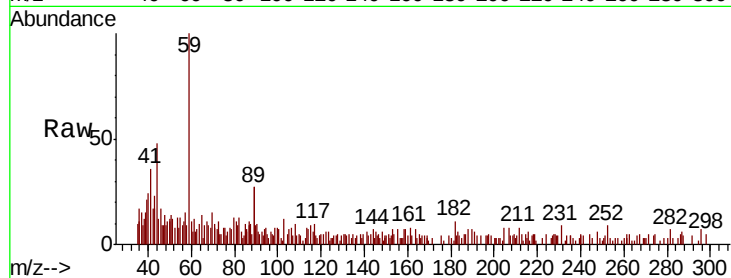




#11
Tert butyl alcohol
Concen: 3.209 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

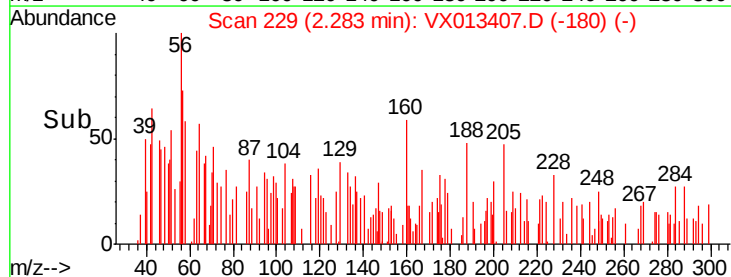
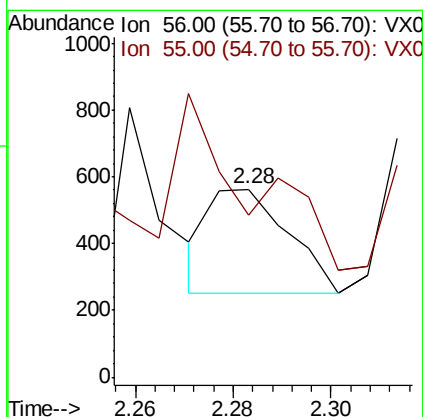
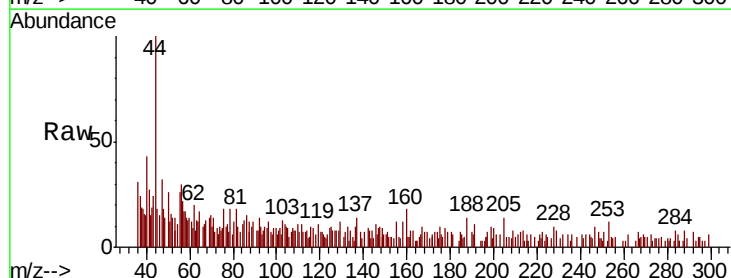
Instrument :
MSVOA_X
ClientSampled :

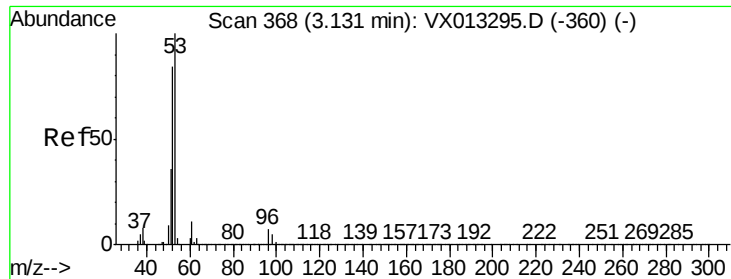
Tot Ion: 59 Resp: 7435
Ion Ratio Lower Upper
59 100
57 24.5 8.0 12.0#



#13
Acrolein
Concen: 0.277 ug/l
RT: 2.28 min Scan# 229
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Tgt Ion: 56 Resp: 348
Ion Ratio Lower Upper
56 100
55 155.5 57.4 86.0#





#15

Acrylonitrile

Concen: 0.715 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

ClientSampleId :

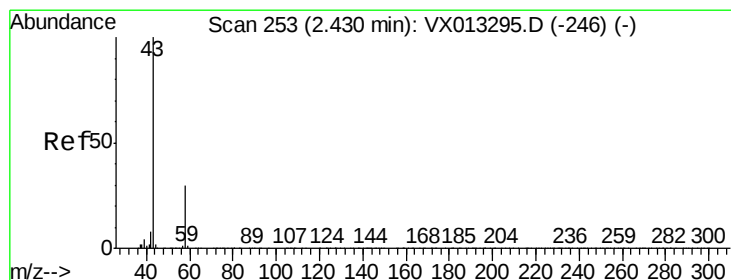
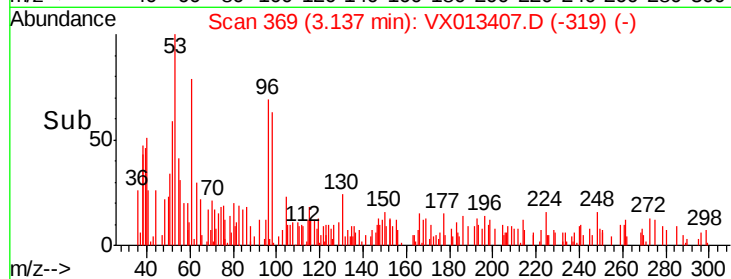
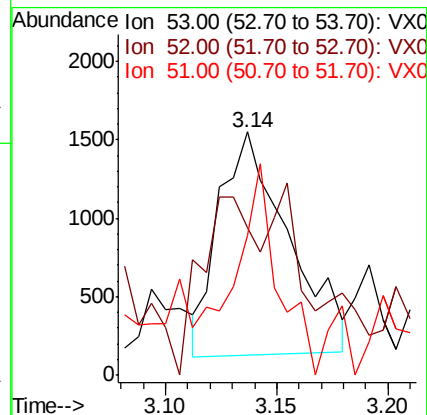
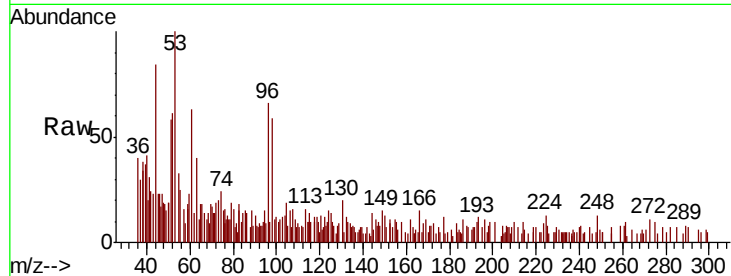
Tot Ion: 53 Resp: 3092

Ion Ratio Lower Upper

53 100

52 63.7 67.4 101.0#

51 50.0 29.4 44.2#



#16

Acetone

Concen: 4.176 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013407.D

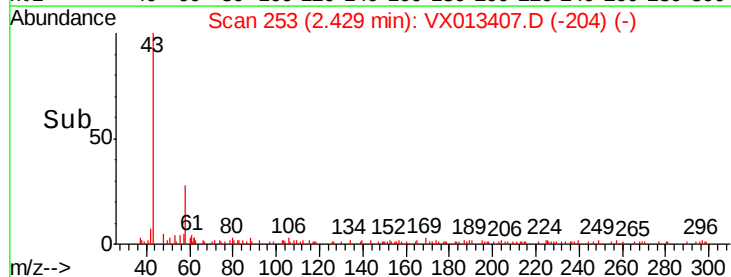
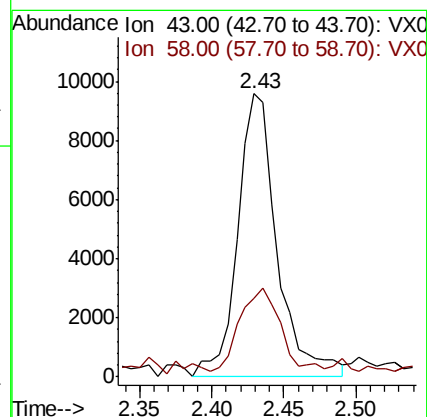
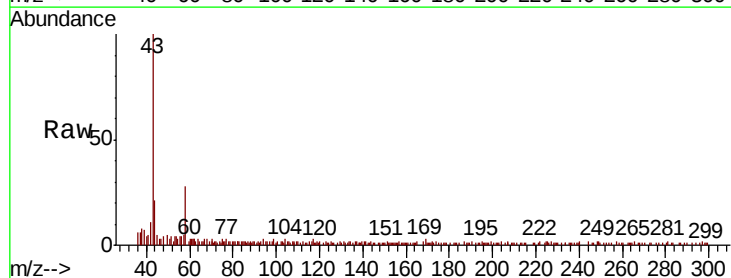
Acq: 13 Nov 2019 15:08

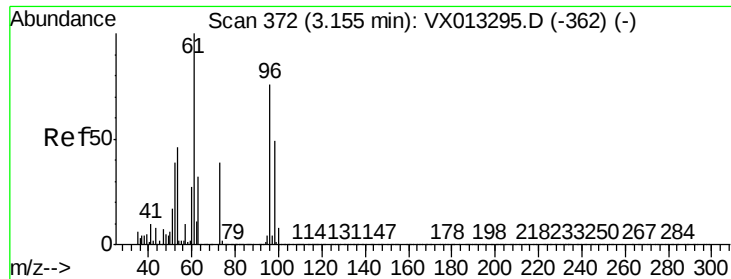
Tgt Ion: 43 Resp: 18307

Ion Ratio Lower Upper

43 100

58 23.2 24.3 36.5#





#21

trans-1,2-Dichloroethene

Concen: 0.819 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

ClientSampleId :

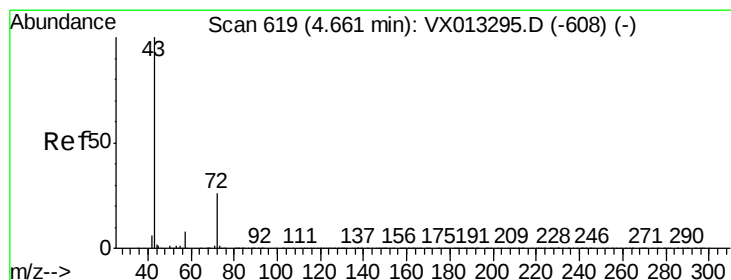
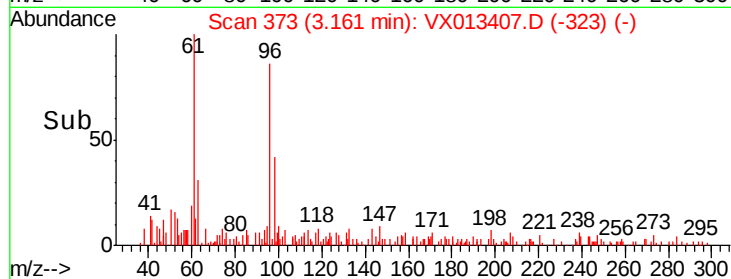
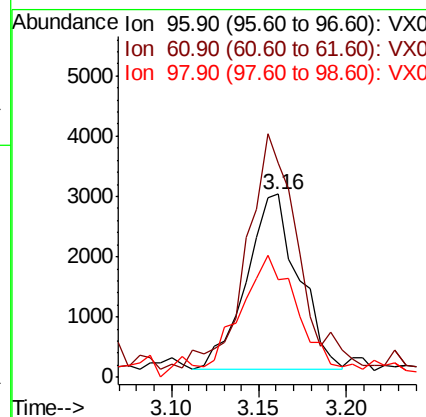
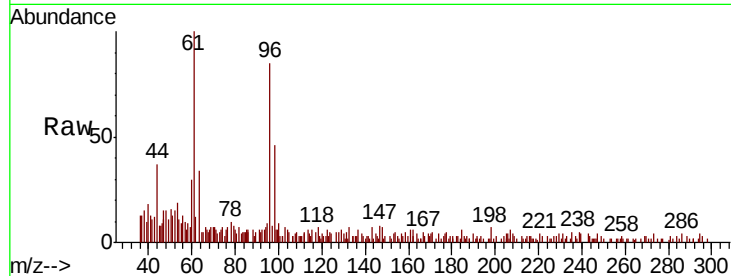
Tot Ion: 96 Resp: 6065

Ion Ratio Lower Upper

96 100

61 107.0 105.8 158.6

98 49.8 51.8 77.6#



#25

2-Butanone

Concen: 0.448 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX013407.D

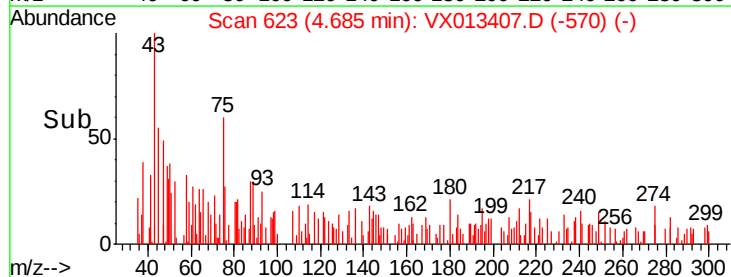
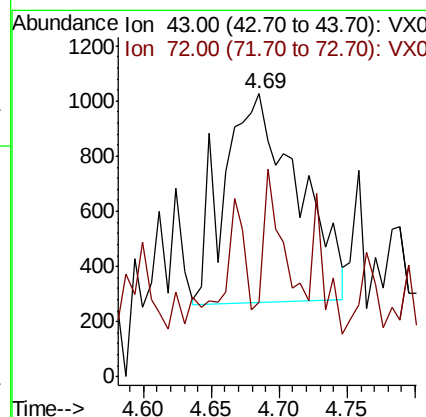
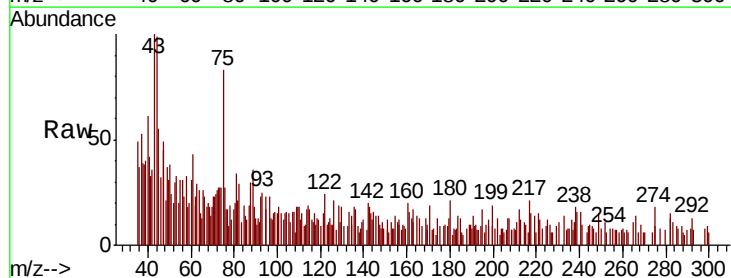
Acq: 13 Nov 2019 15:08

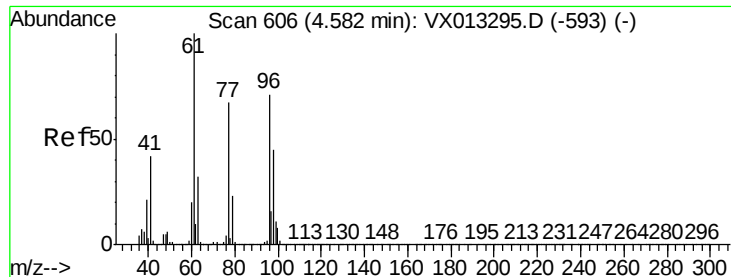
Tgt Ion: 43 Resp: 2881

Ion Ratio Lower Upper

43 100

72 15.6 21.0 31.6#



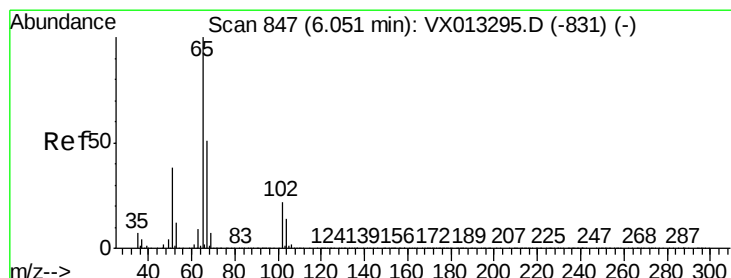
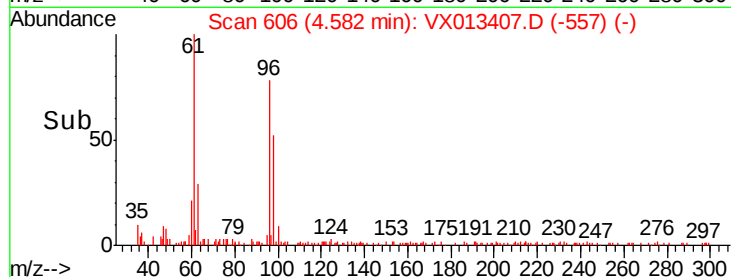
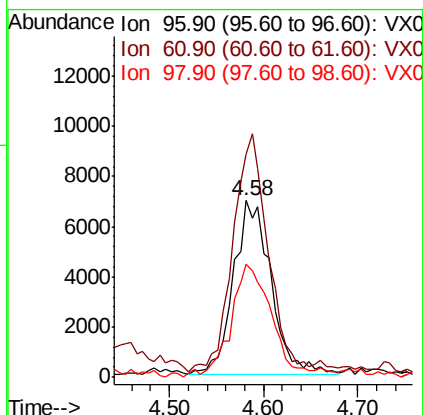
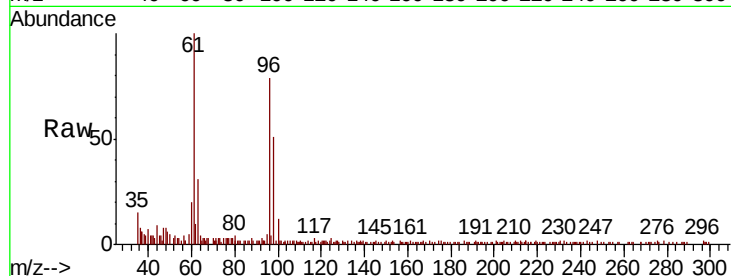


#27

cis-1,2-Dichloroethene
Concen: 2.313 ug/l
RT: 4.58 min Scan# 606
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Instrument :
MSVOA_X
ClientSampleId :

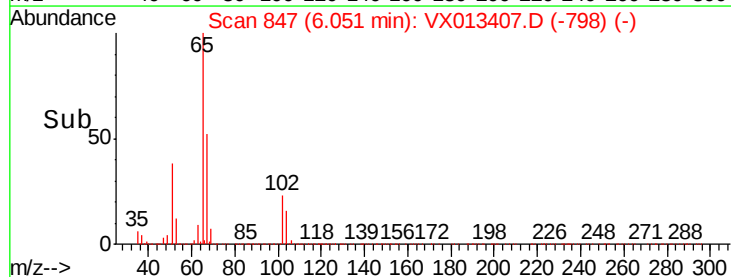
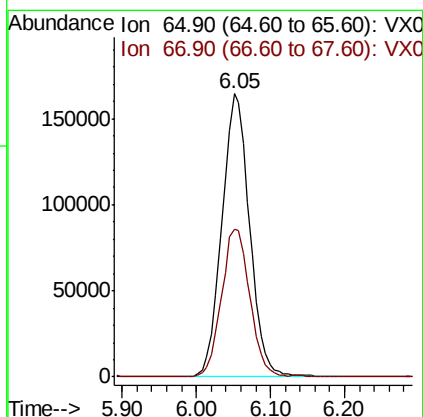
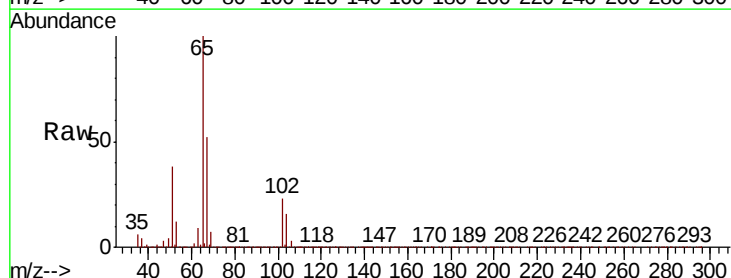
Tot Ion	Ratio	Lower	Upper
96	100		
61	126.1	0.0	288.0
98	70.2	0.0	129.6

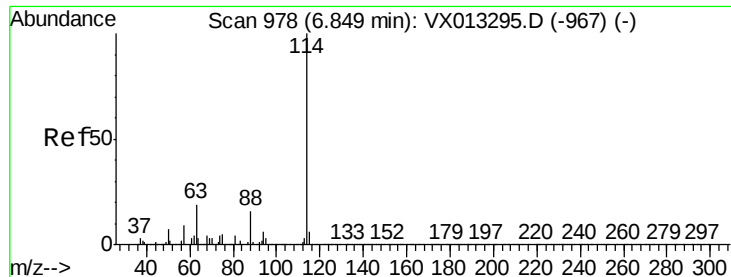


#33

1,2-Dichloroethane-d4
Concen: 48.214 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.6	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: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

ClientSampleId :

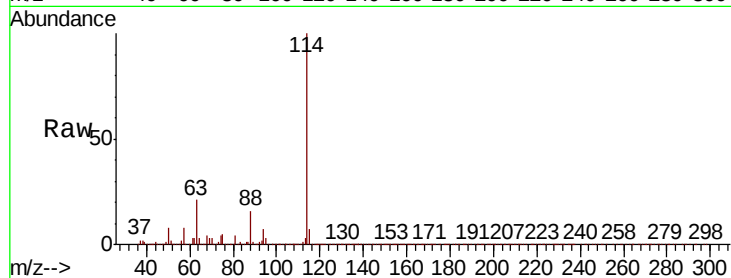
Tot Ion:114 Resp: 1162621

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	38.4
88	15.9	0.0	32.2

114 100

63 20.5 0.0 38.4

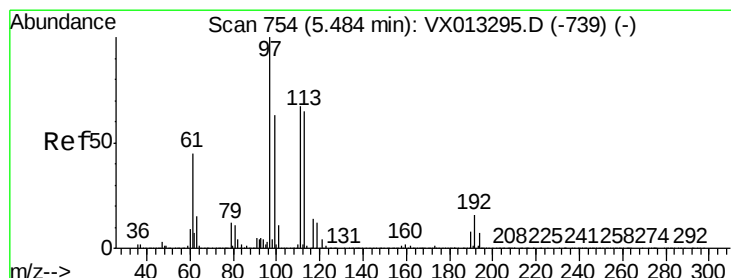
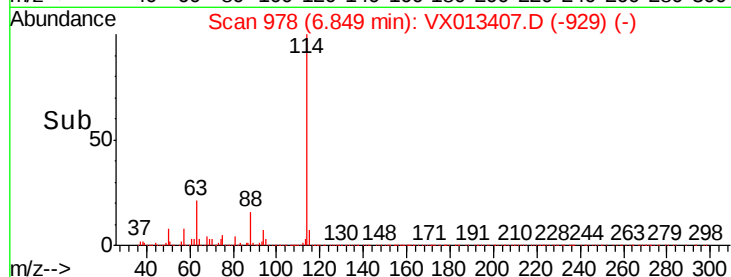
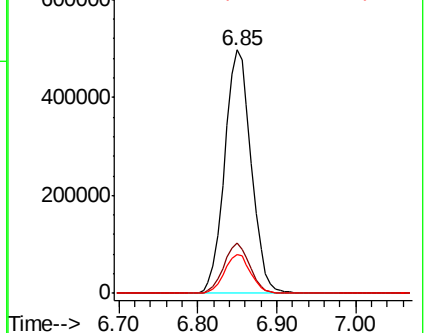
88 15.9 0.0 32.2



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: 48.296 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

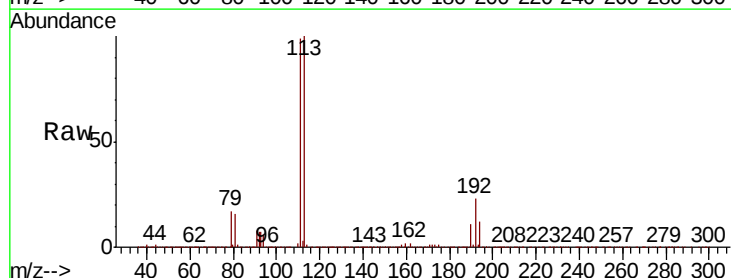
Tgt Ion:113 Resp: 352180

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.9	122.9
192	24.0	19.1	28.7

113 100

111 102.4 81.9 122.9

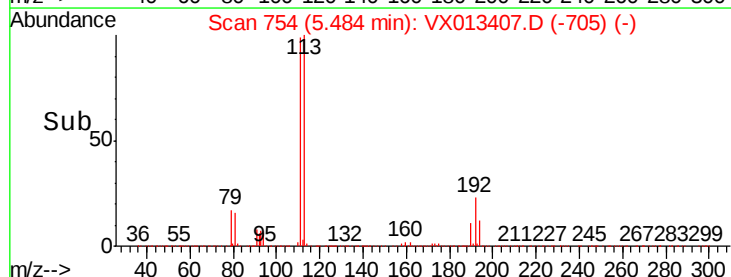
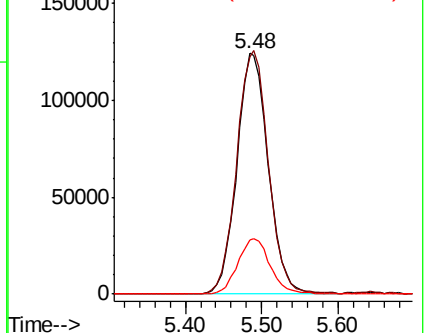
192 24.0 19.1 28.7

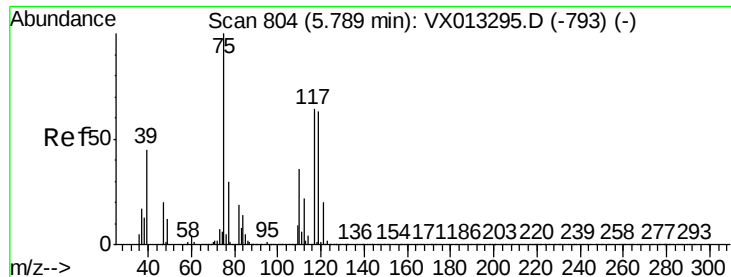


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

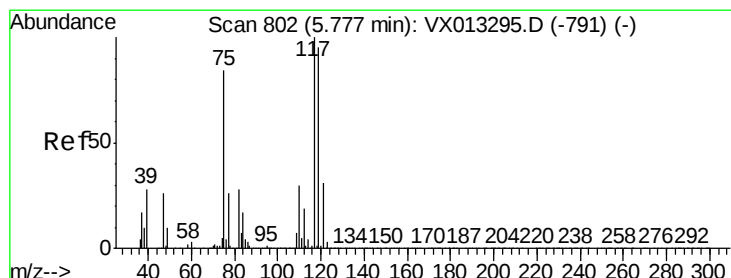
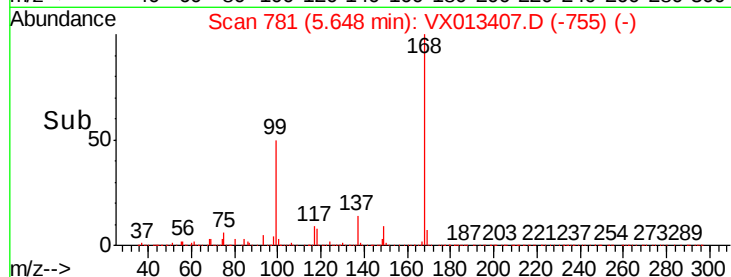
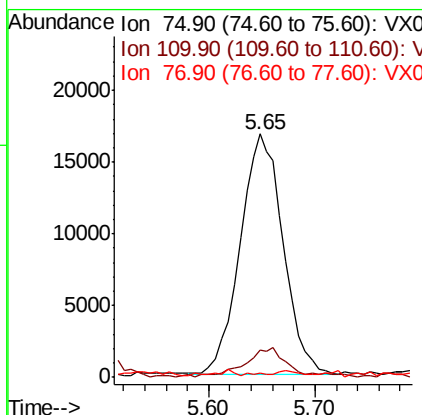
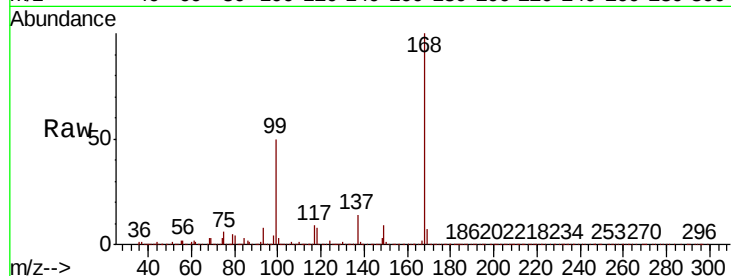




#36
 1,1-Dichloropropene
 Concen: 4.732 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013407.D
 Acq: 13 Nov 2019 15:08

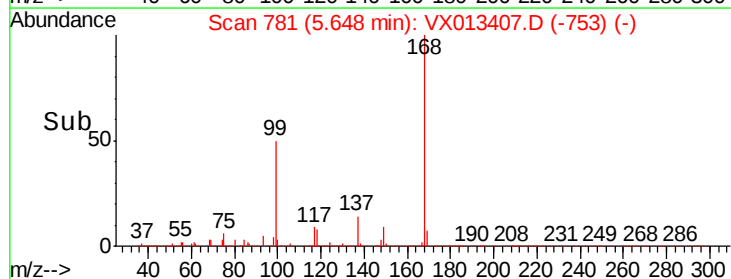
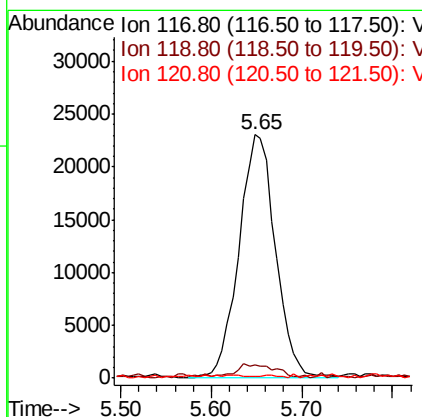
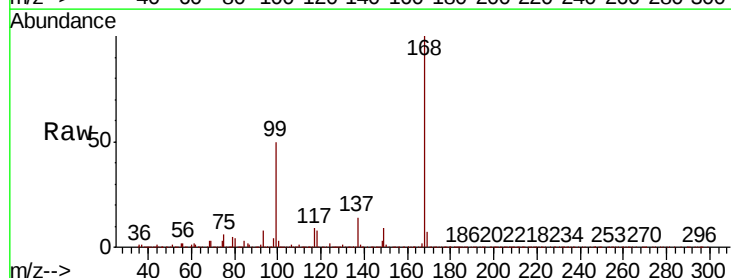
Instrument :
 MSVOA_X
 ClientSampleId :

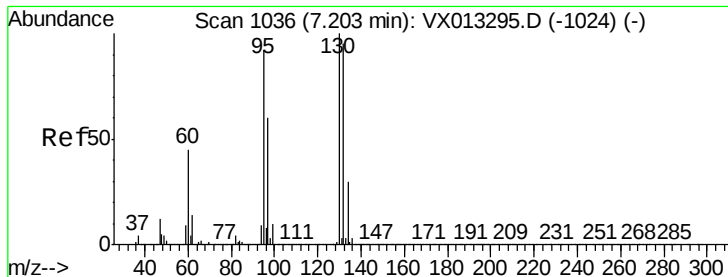
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	18.1	54.1#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.586 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013407.D
 Acq: 13 Nov 2019 15:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.1	114.1#
121	0.2	24.6	37.0#





#44

Trichloroethene

Concen: 0.808 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

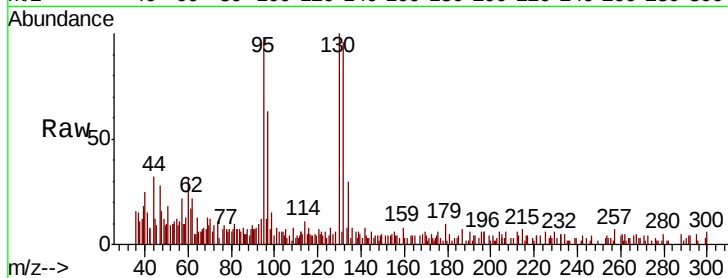
ClientSampleId :

Tot Ion:130 Resp: 6906

Ion Ratio Lower Upper

130 100

95 90.2 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

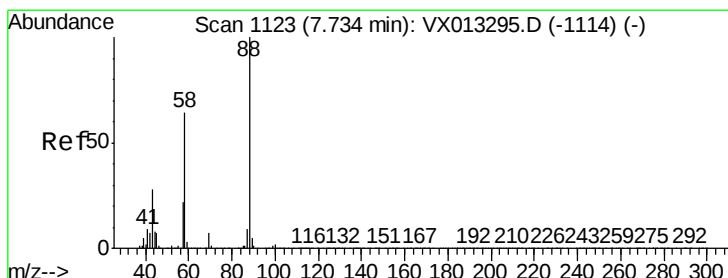
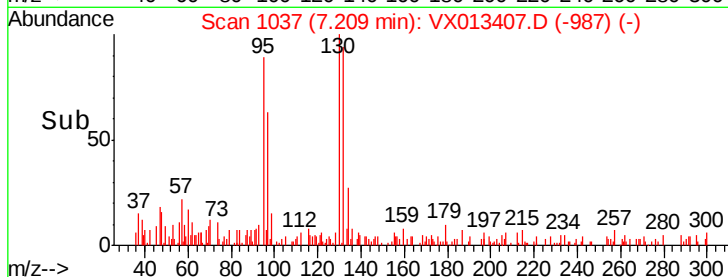
3000

2000

1000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 1.750 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

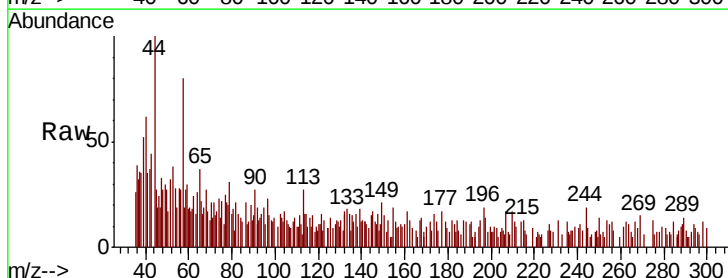
Tgt Ion: 88 Resp: 384

Ion Ratio Lower Upper

88 100

43 150.3 26.6 39.8#

58 0.0 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

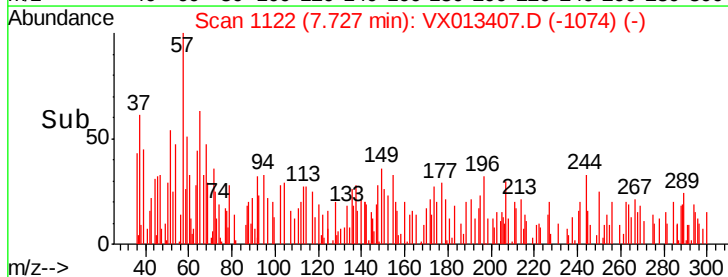
600

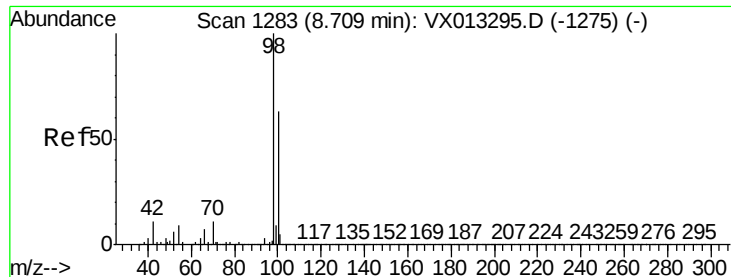
400

200

0

Time--> 7.71 7.72 7.73 7.74





#50

Toluene-d8

Concen: 50.225 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

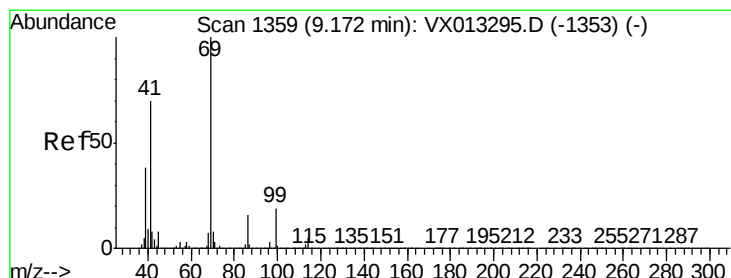
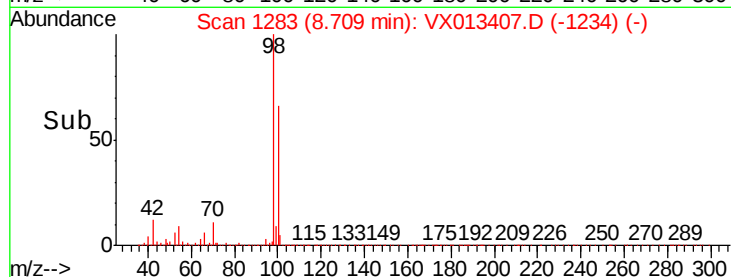
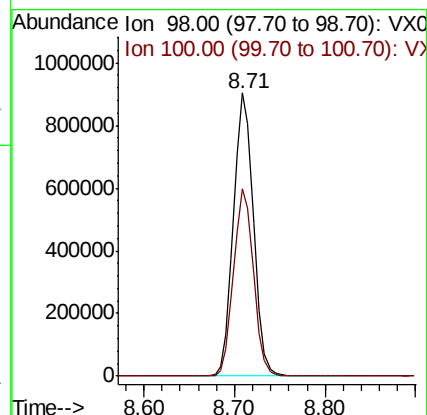
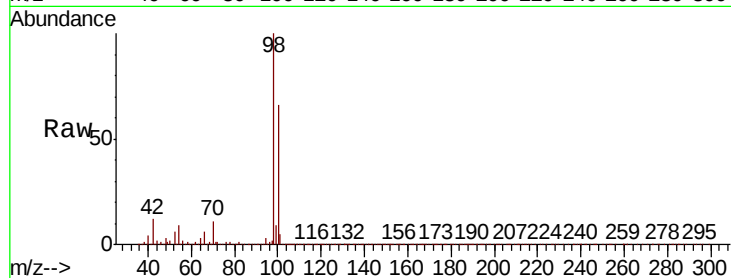
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 98 Resp: 1380698

Ion Ratio Lower Upper

98 100

100 66.1 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.604 ug/l

RT: 9.19 min Scan# 1362

Delta R.T. 0.02 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

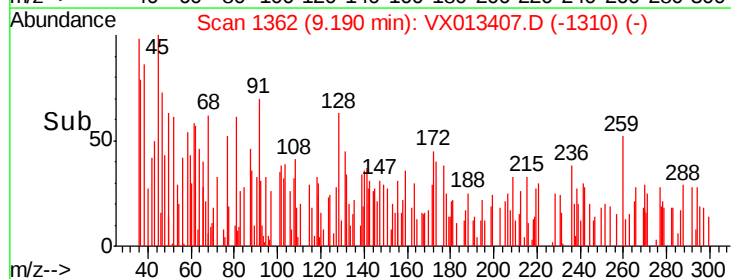
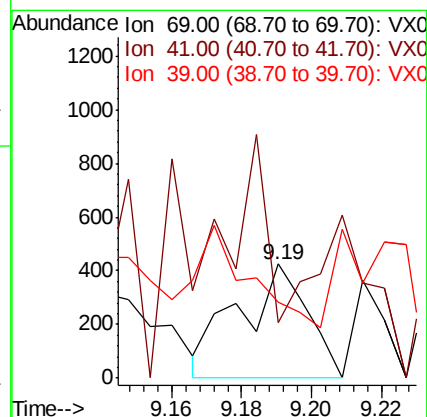
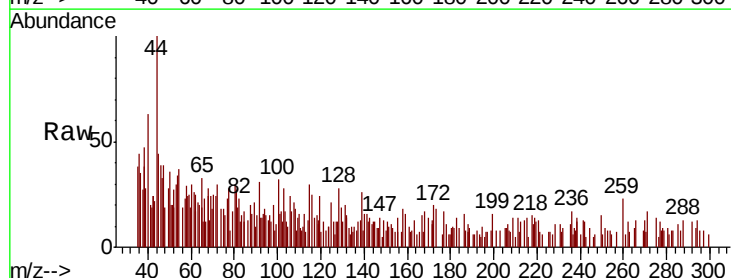
Tgt Ion: 69 Resp: 578

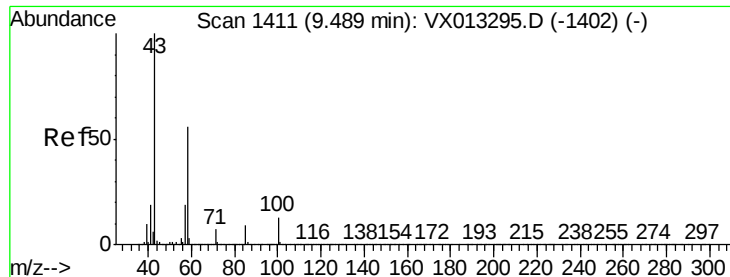
Ion Ratio Lower Upper

69 100

41 55.9 56.2 84.2#

39 67.6 31.1 46.7#

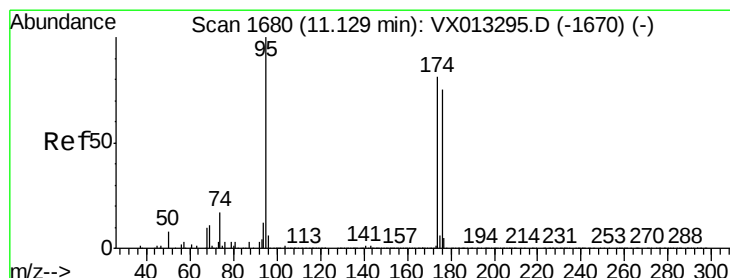
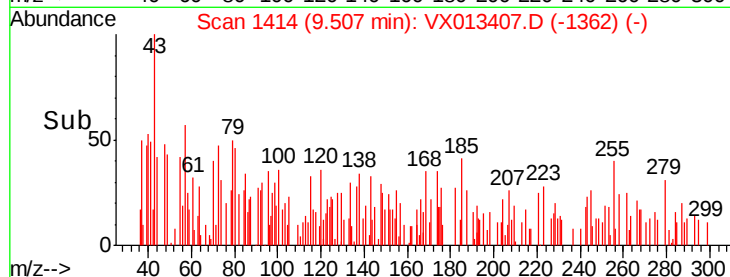
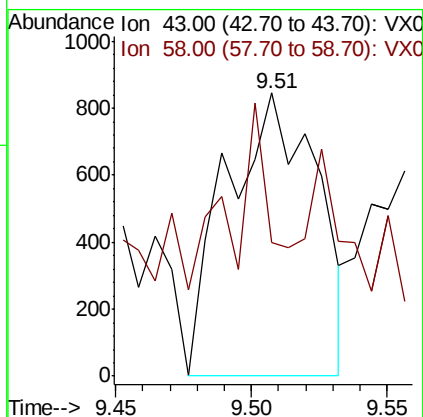
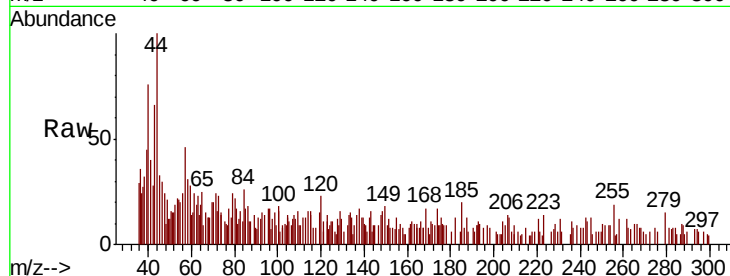




#59
2-Hexanone
Concen: 0.202 ug/l
RT: 9.51 min Scan# 1414
Delta R.T. 0.02 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

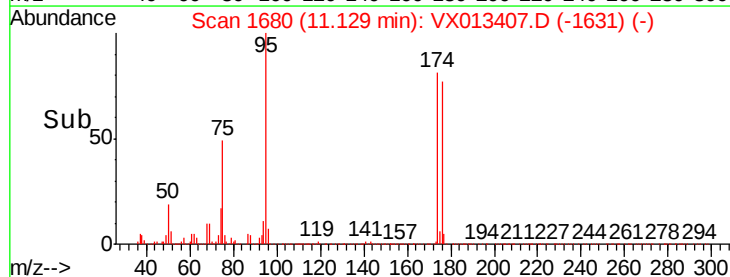
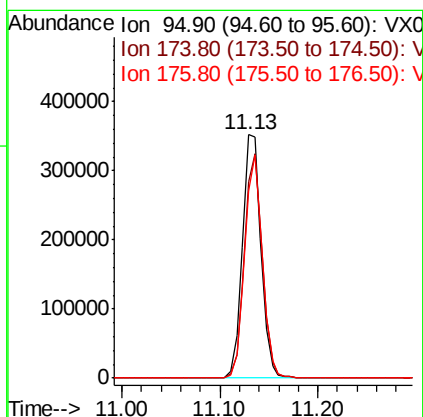
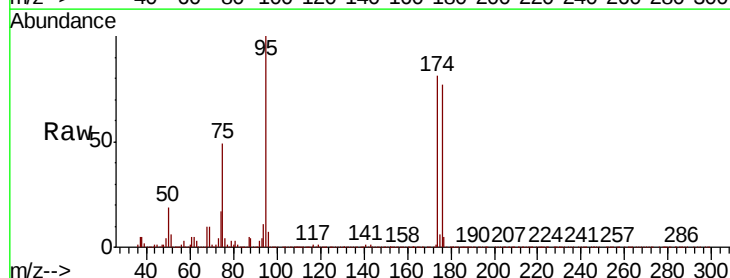
Instrument :
MSVOA_X
ClientSampled :

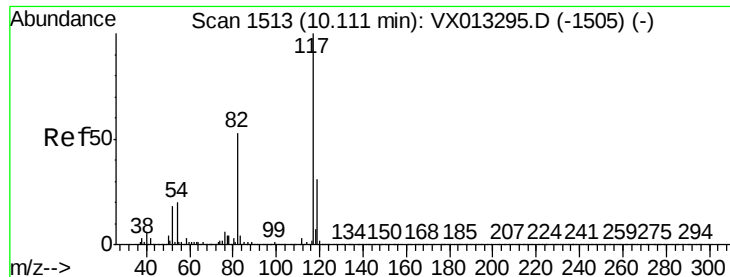
Tot Ion: 43 Resp: 1966
Ion Ratio Lower Upper
43 100
58 32.2 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 46.664 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Tgt Ion: 95 Resp: 462980
Ion Ratio Lower Upper
95 100
174 89.3 0.0 179.8
176 87.6 0.0 173.0

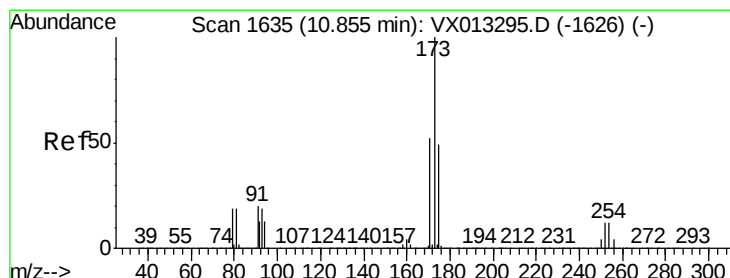
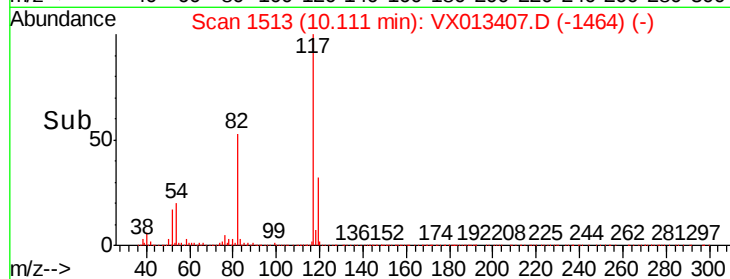
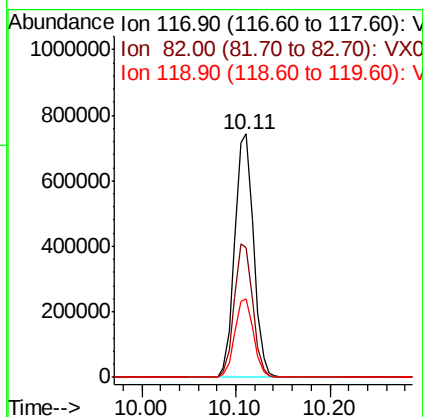
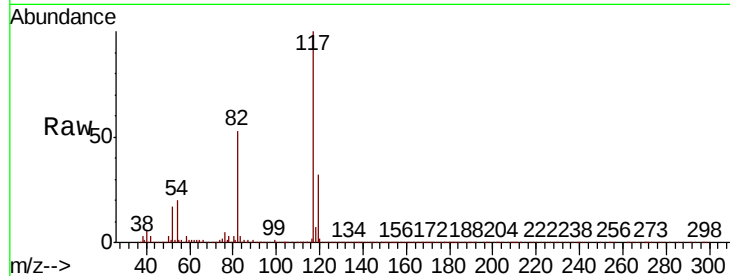




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

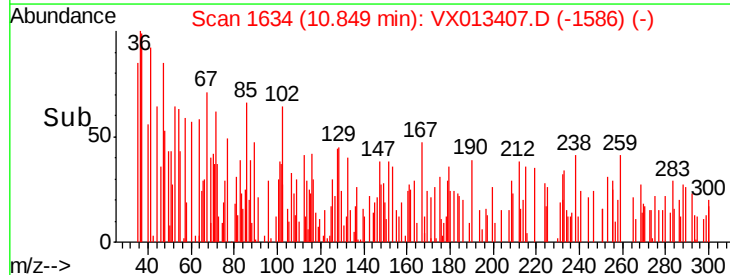
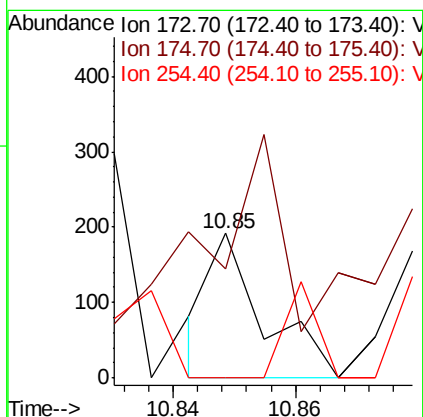
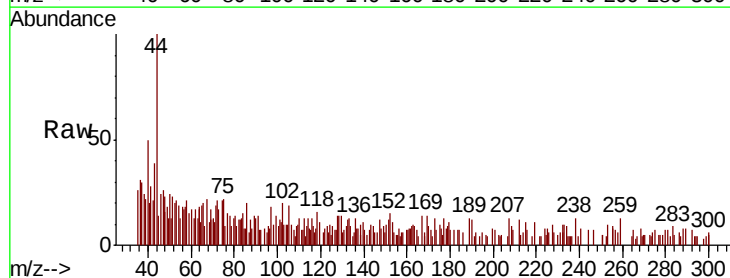
Instrument :
MSVOA_X
ClientSampleId :

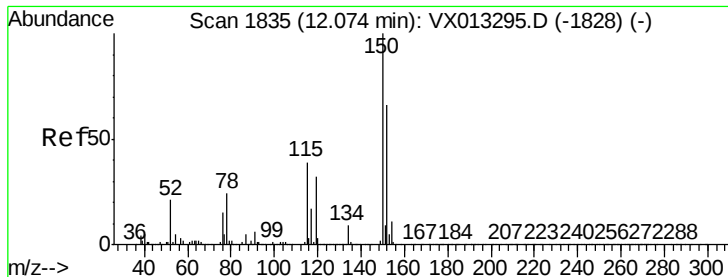
Tot Ion:117 Resp: 1030686
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.4 24.8 37.2



#71
Bromoform
Concen: 3.218 ug/l
RT: 10.85 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Tgt Ion:173 Resp: 116
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 40.5 0.2 0.2#



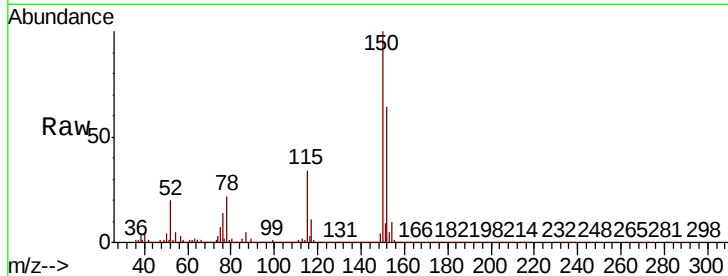


#72

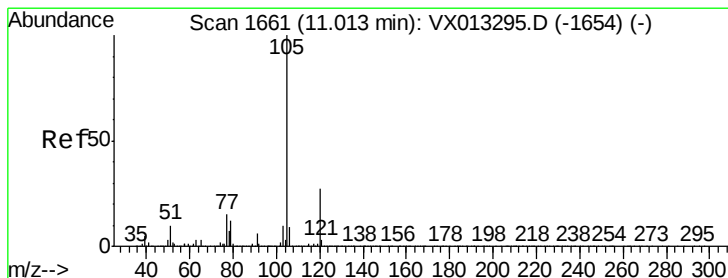
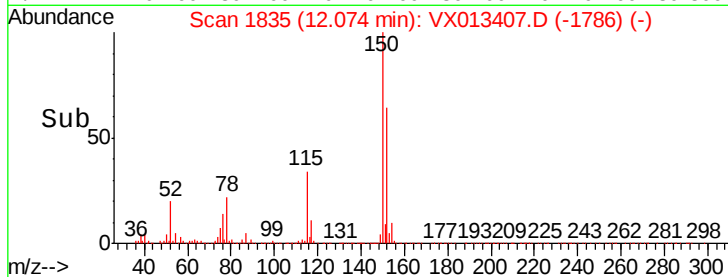
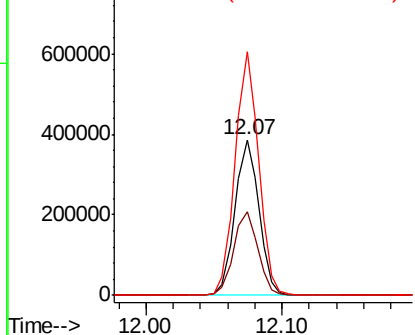
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.3	39.5	118.3
150	154.4	0.0	344.4



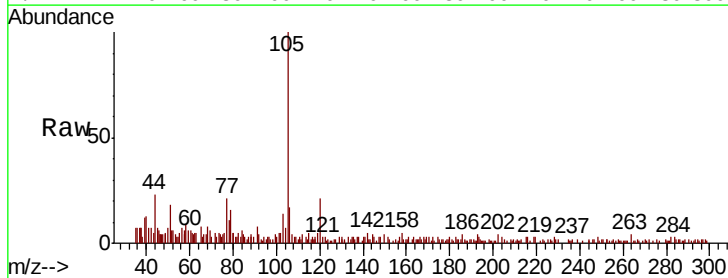
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



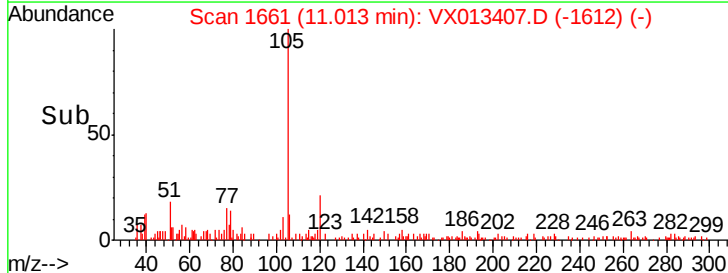
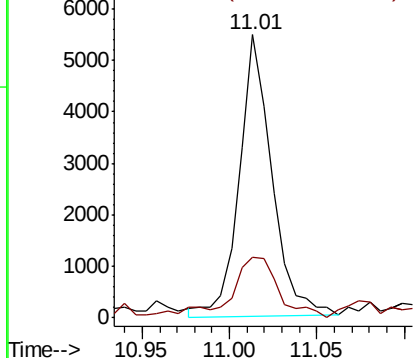
#73

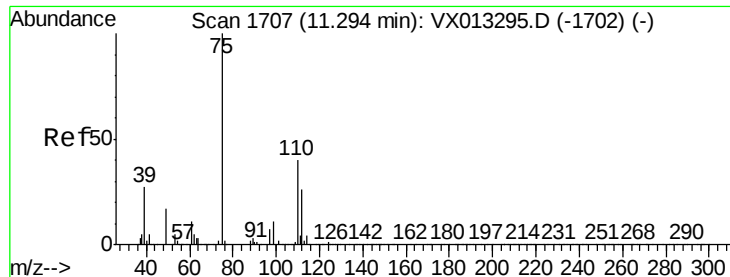
Isopropylbenzene
Concen: 0.227 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.7	13.5	40.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 23.671 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

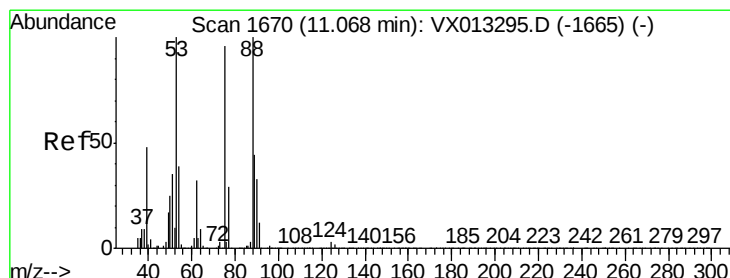
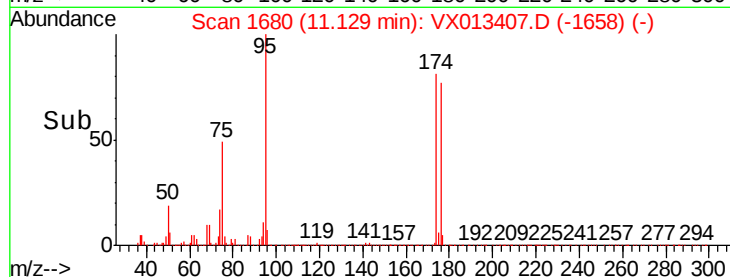
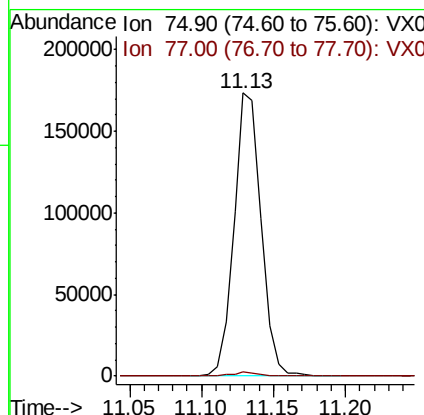
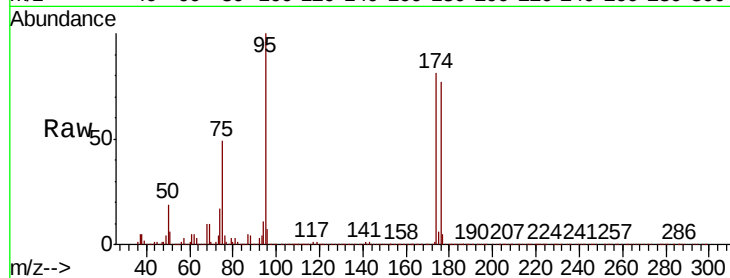
ClientSampleId :

Tot Ion: 75 Resp: 226512

Ion Ratio Lower Upper

75 100

77 1.7 22.3 66.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.927 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

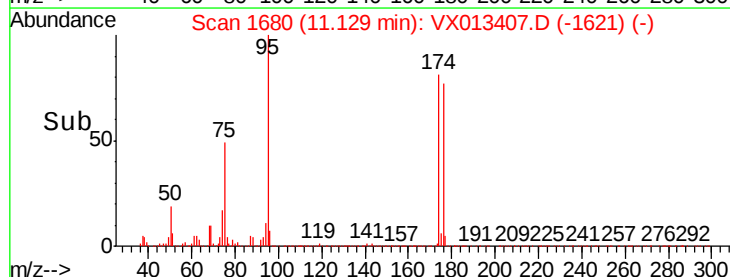
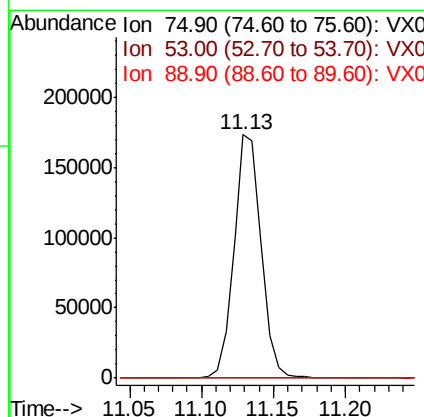
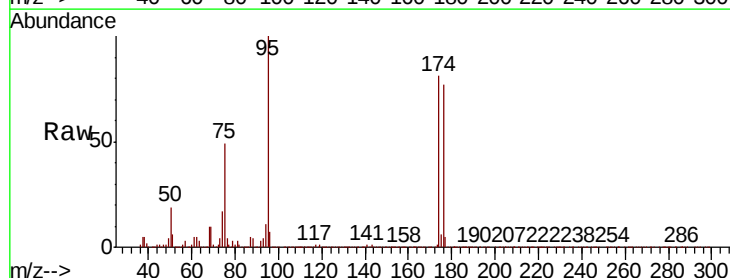
Tgt Ion: 75 Resp: 226512

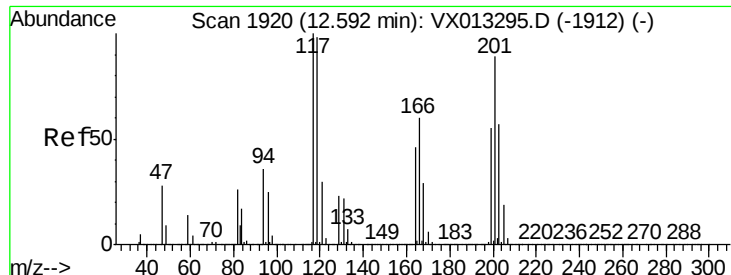
Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.1 36.0 54.0#





#90

Hexachloroethane

Concen: 0.696 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX013407.D

Acq: 13 Nov 2019 15:08

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 3436

Ion Ratio Lower Upper

117 100

201 5.6 43.9 131.7#

