

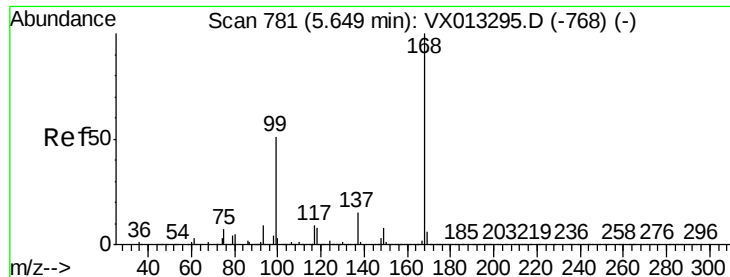
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111319\
 Data File : VX013407.D
 Acq On : 13 Nov 2019 15:08
 Operator : JC/SP
 Sample : K5802-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0678

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 :

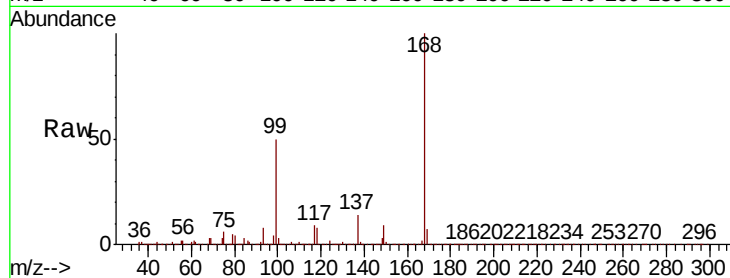
S32-0678

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

5.65

300000

250000

200000

150000

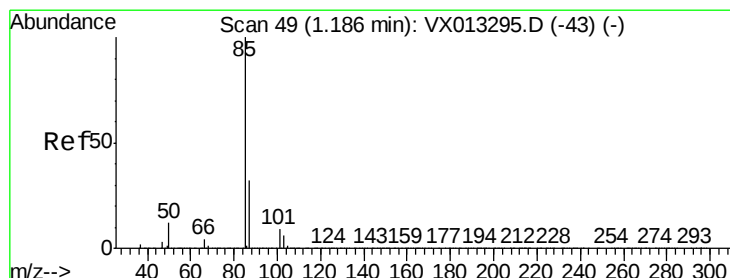
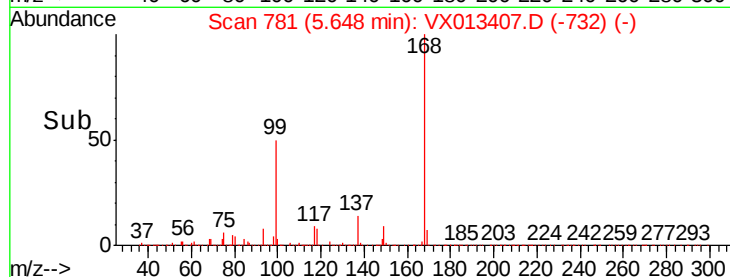
100000

50000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: 0.360 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.00 min

Lab File: VX013407.D

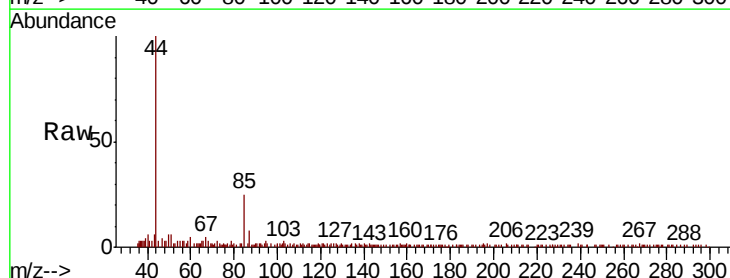
Acq: 13 Nov 2019 15:08

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

1.19

3000

2500

2000

1500

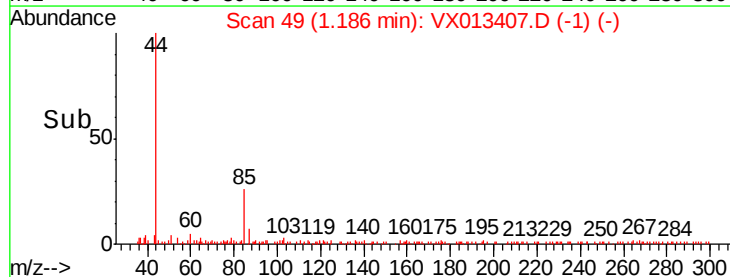
1000

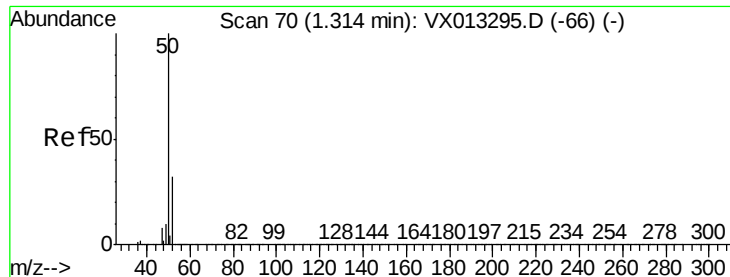
500

0

Time-->

1.15 1.20





#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 :

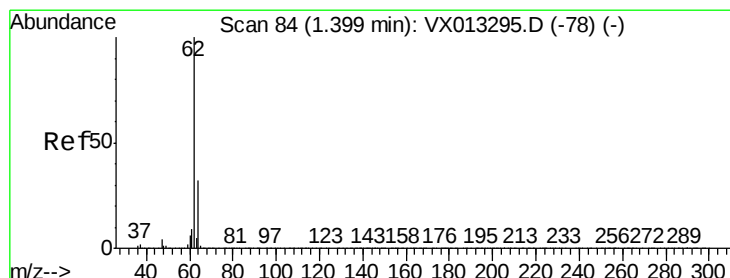
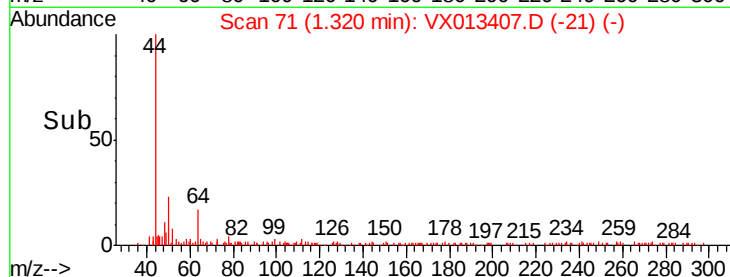
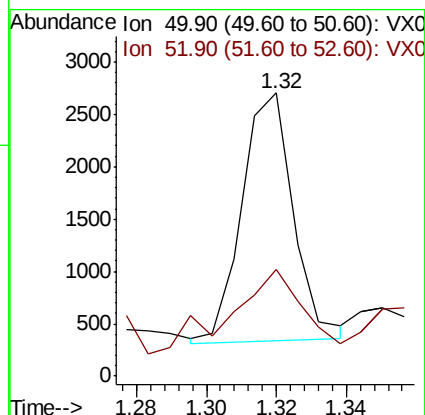
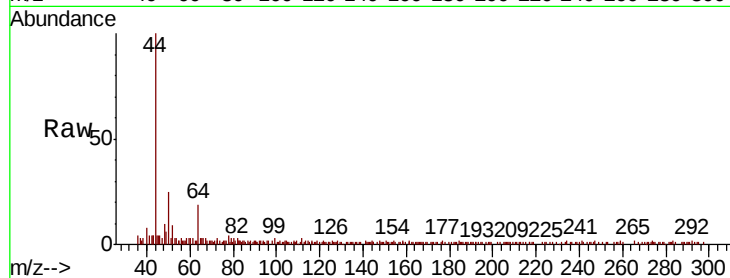
S32-0678

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

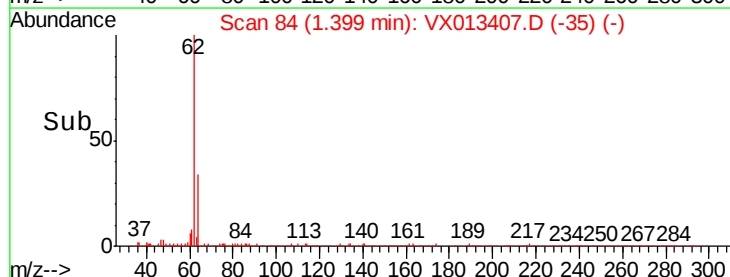
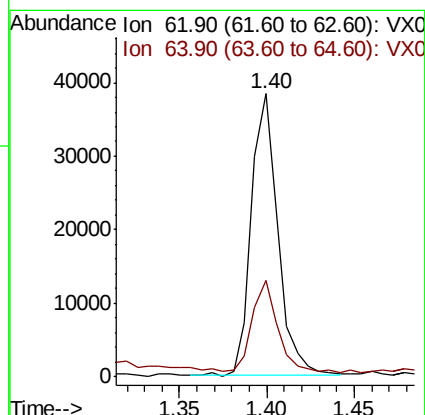
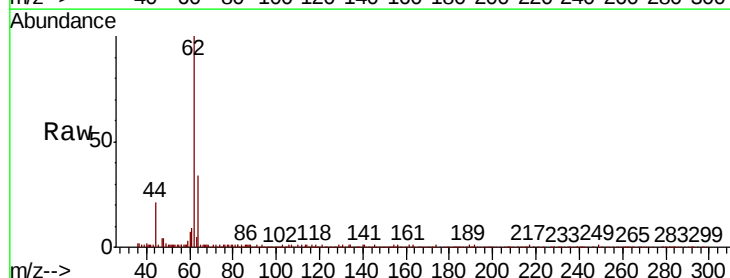
Acq: 13 Nov 2019 15:08

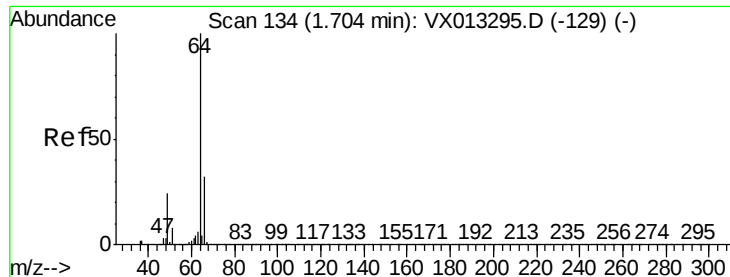
Tgt Ion: 62 Resp: 40422

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 :

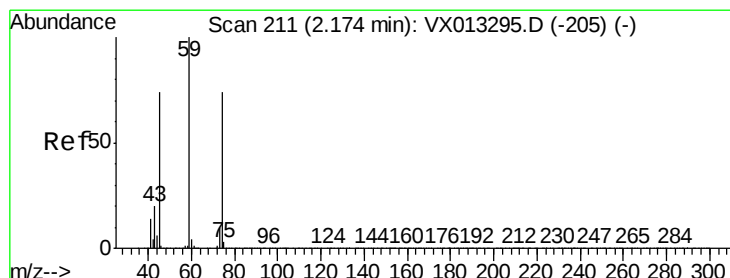
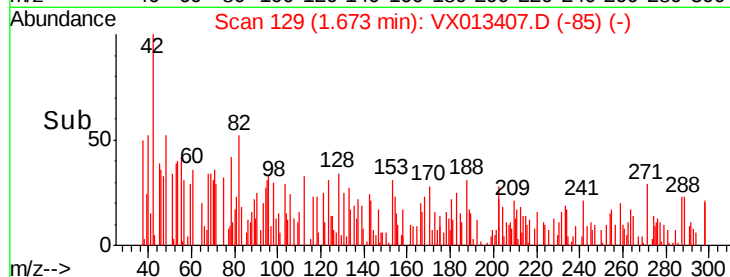
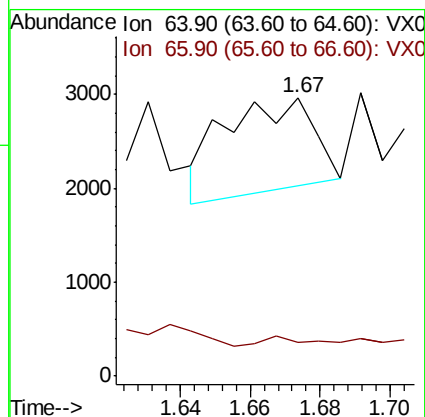
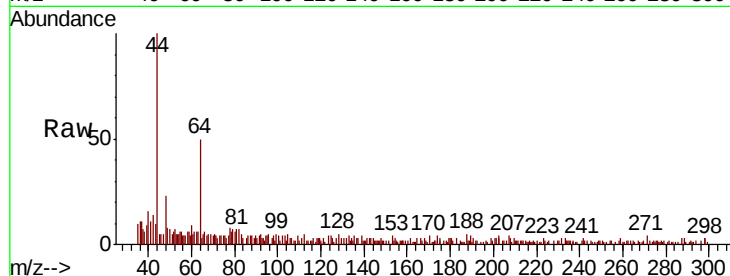
S32-0678

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

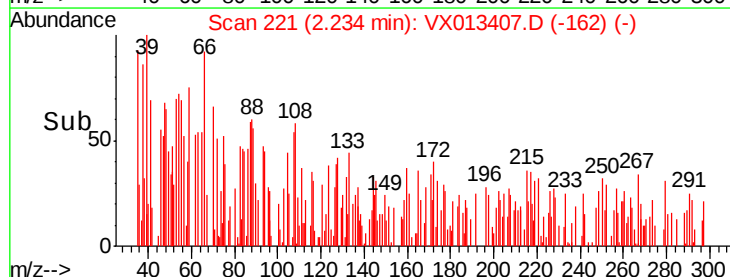
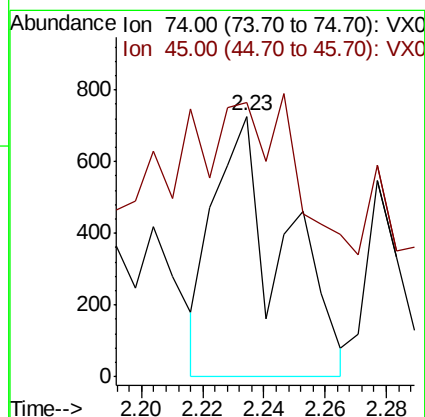
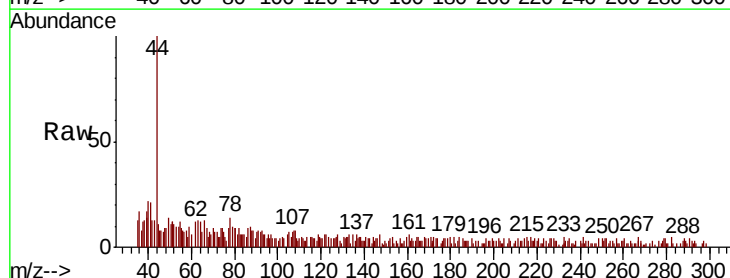
Acq: 13 Nov 2019 15:08

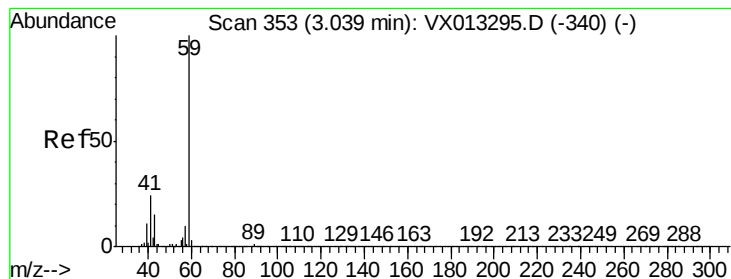
Tgt Ion: 74 Resp: 1143

Ion Ratio Lower Upper

74 100

45 96.6 48.5 145.6



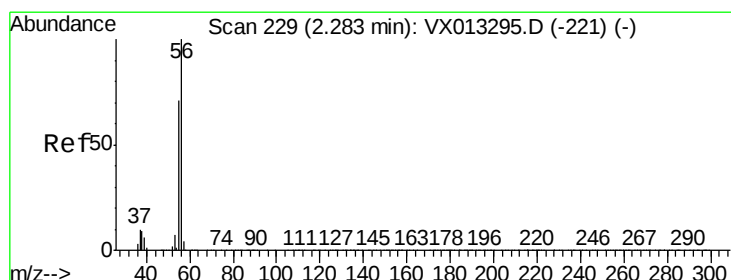
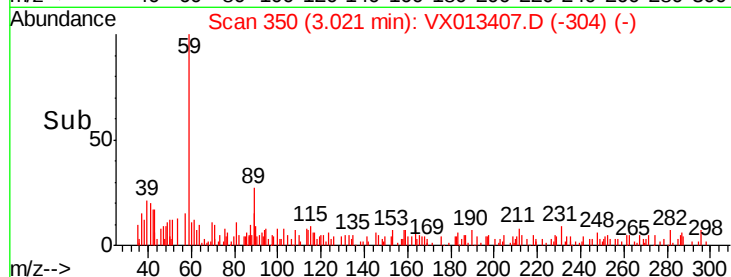
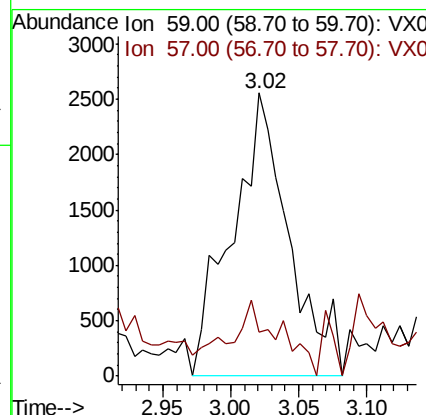
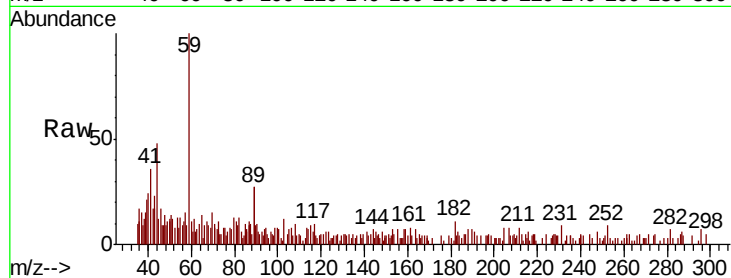


#11

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 :
 S32-0678

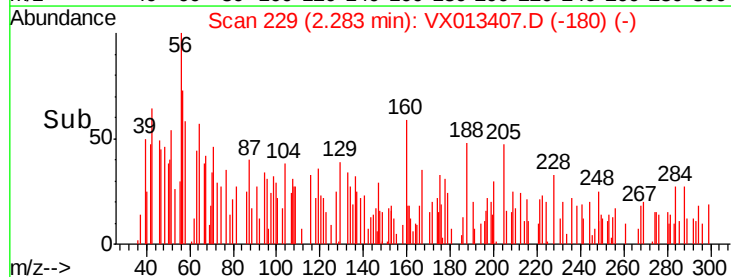
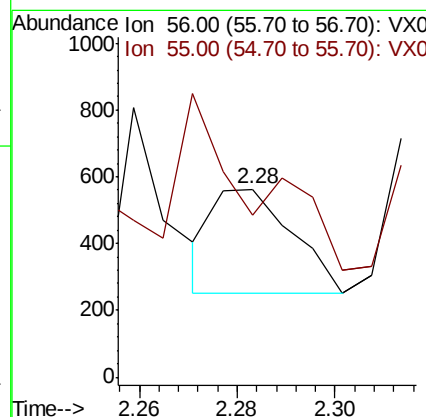
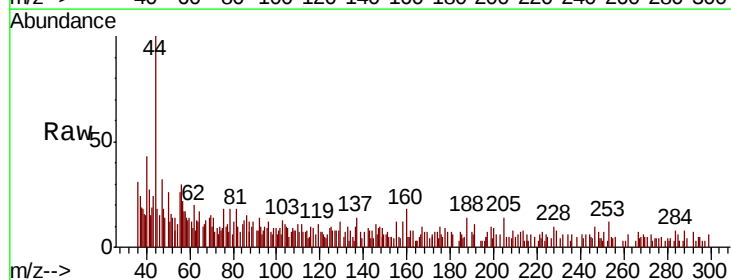
Tot Ion: 59 Resp: 7435
 Ion Ratio Lower Upper
 59 100
 57 24.5 8.0 12.0#

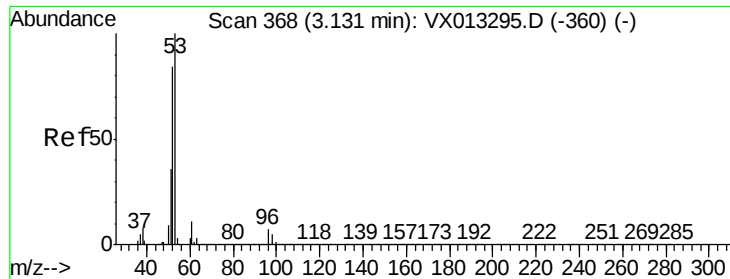


#13

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 :

S32-0678

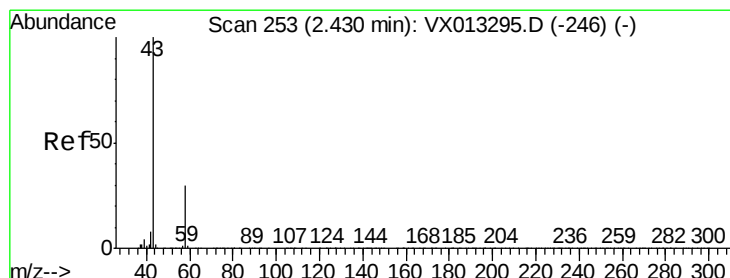
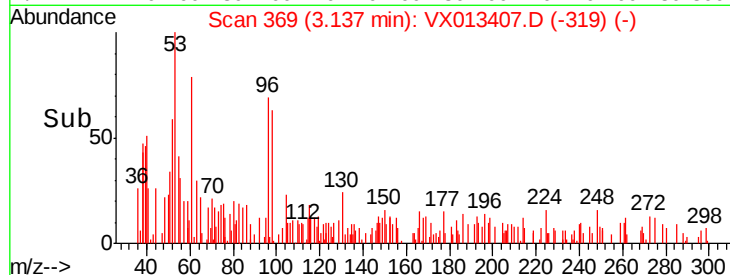
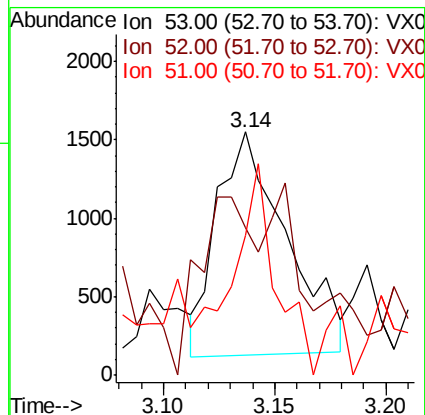
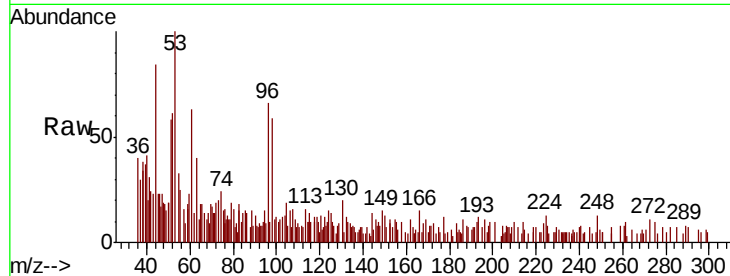
Tot Ion: 53 Resp: 3092

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

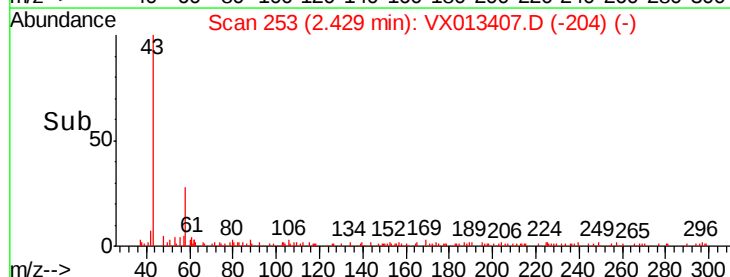
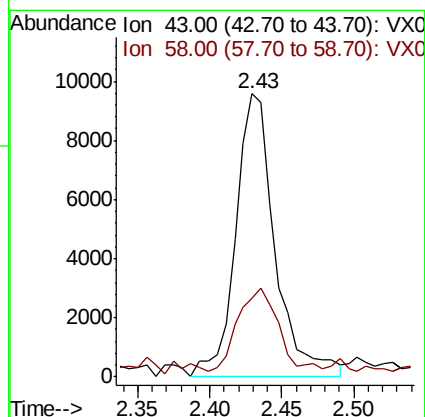
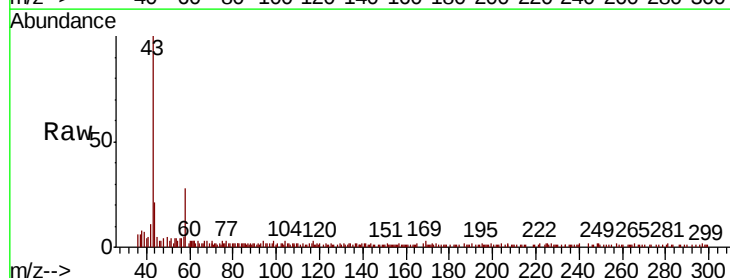
Acq: 13 Nov 2019 15:08

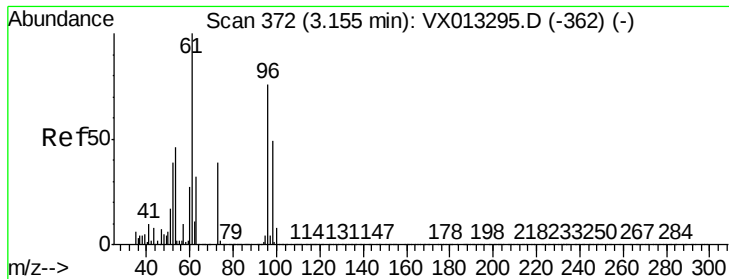
Tgt Ion: 43 Resp: 18307

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

ClientSampled :

S32-0678

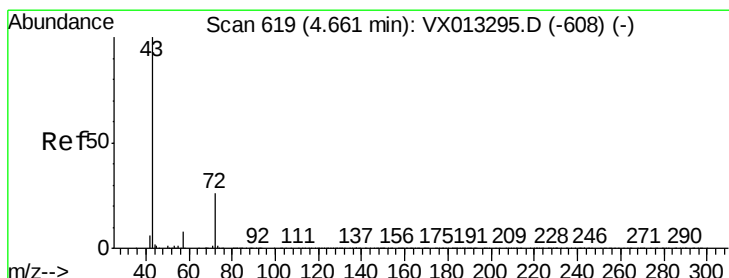
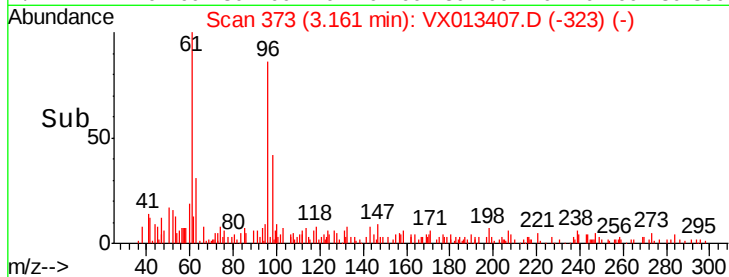
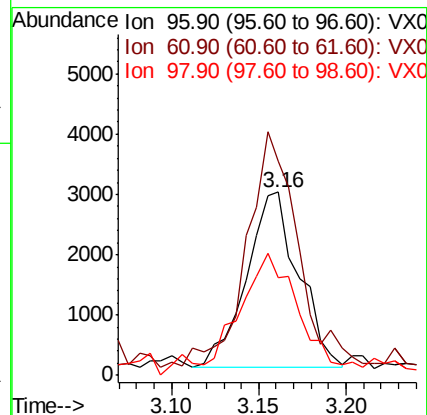
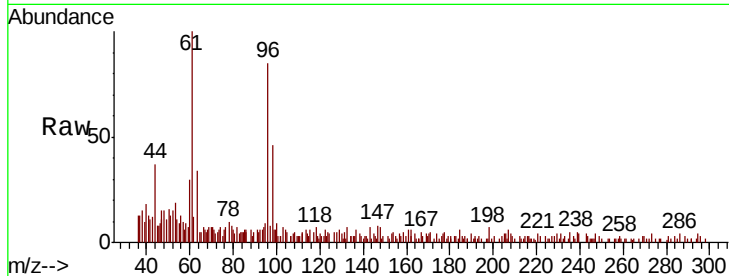
Tot Ion: 96 Resp: 6065

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

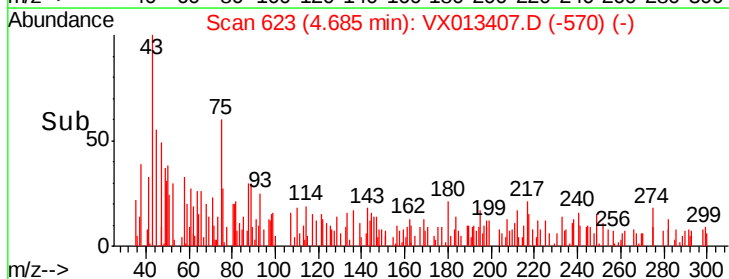
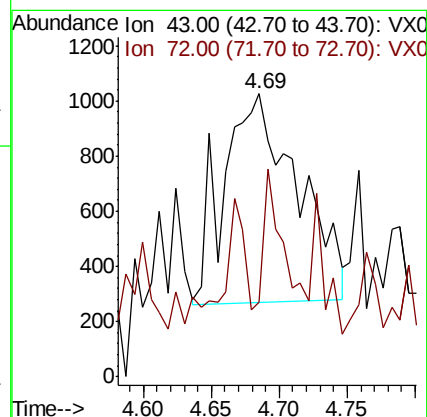
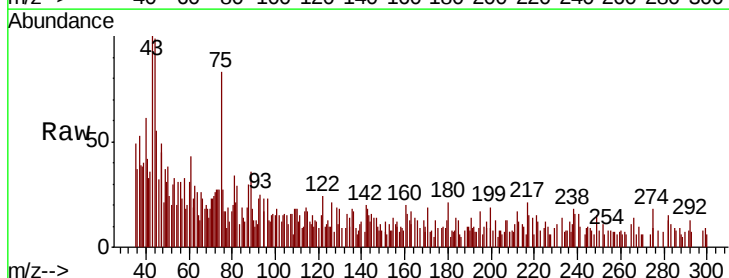
Acq: 13 Nov 2019 15:08

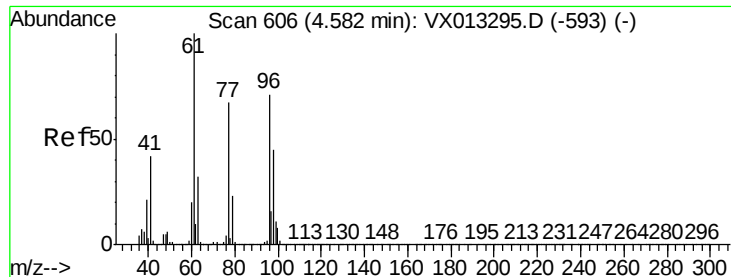
Tgt Ion: 43 Resp: 2881

Ion Ratio Lower Upper

43 100

72 15.6 21.0 31.6#



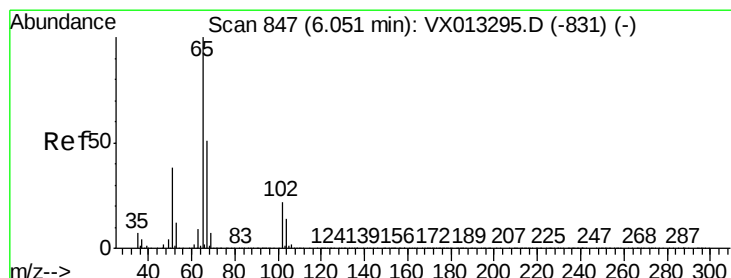
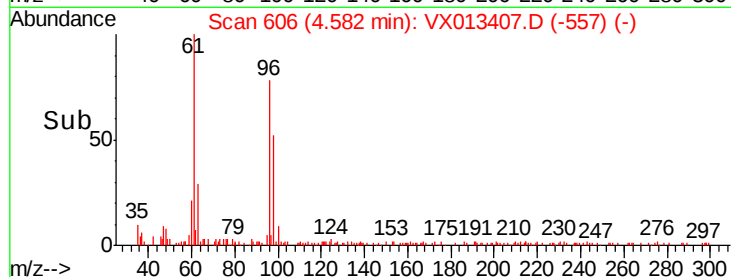
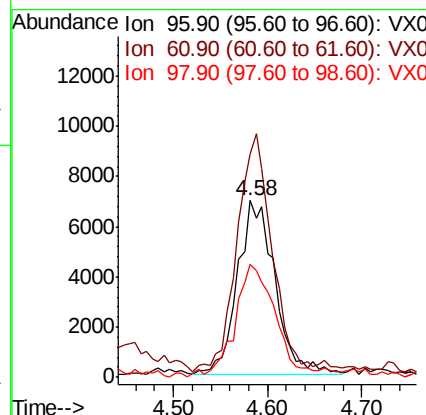
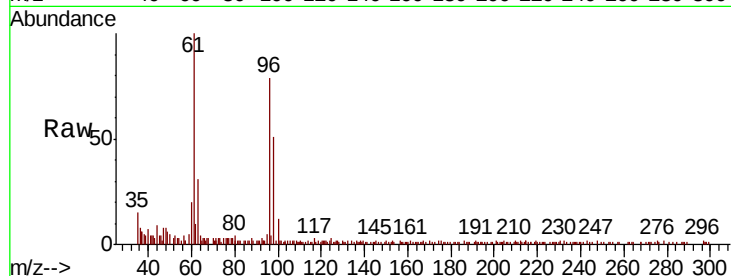


#27

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 :
S32-0678

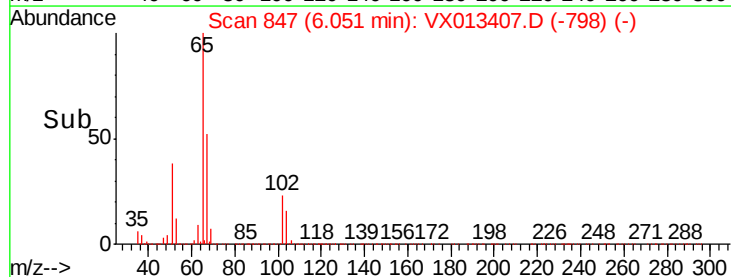
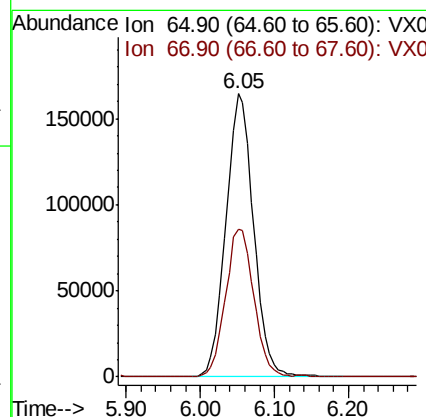
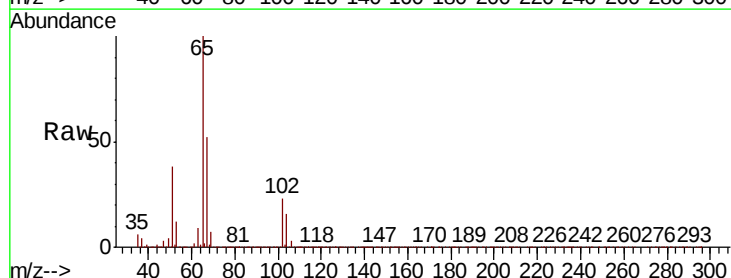
Tot Ion	Ratio	Lower	Upper
96	100		
61	126.1	0.0	288.0
98	70.2	0.0	129.6

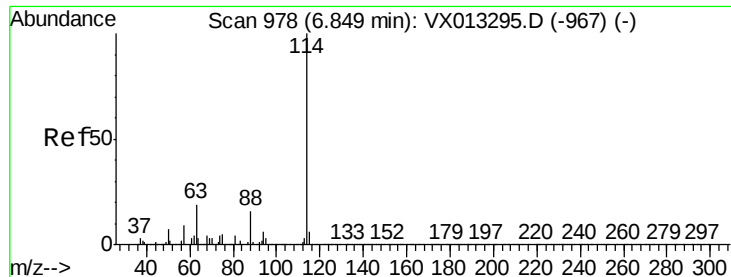


#33

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 :

S32-0678

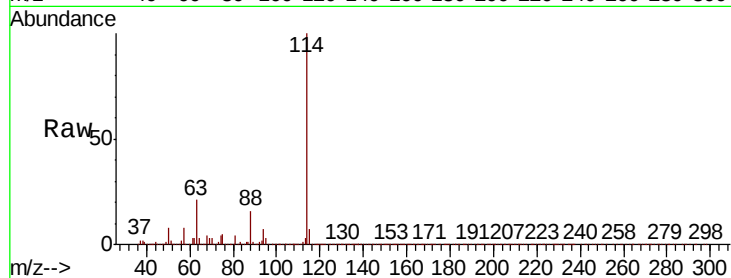
Tot Ion:114 Resp: 1162621

Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.4

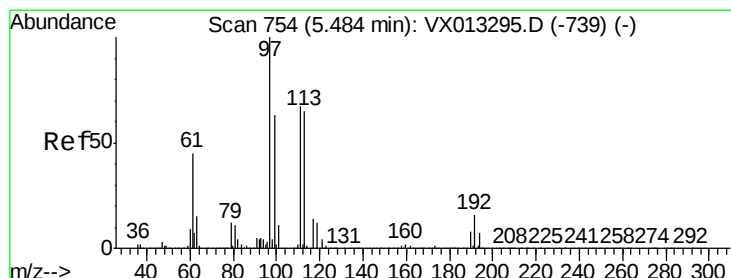
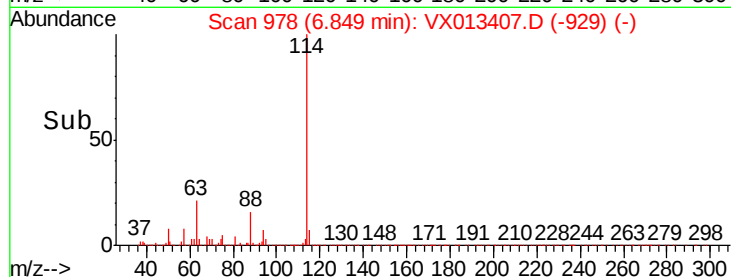
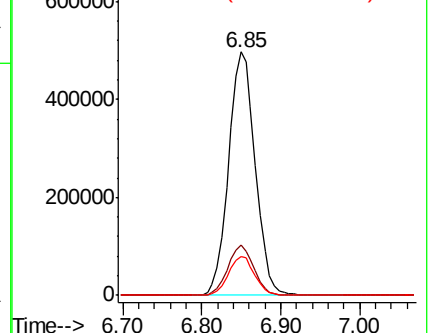
88 15.9 0.0 32.2



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

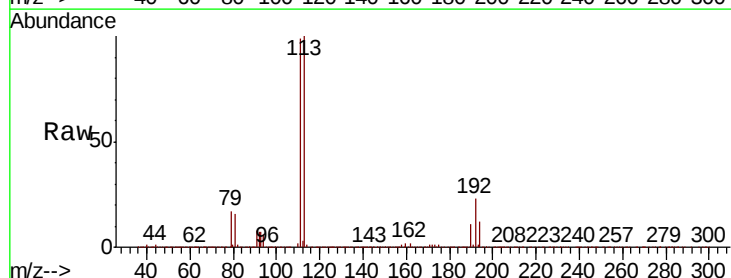
Tgt Ion:113 Resp: 352180

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

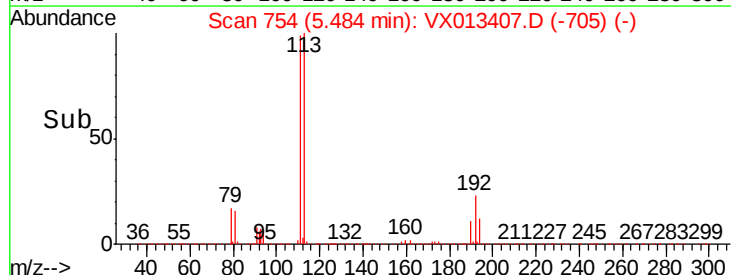
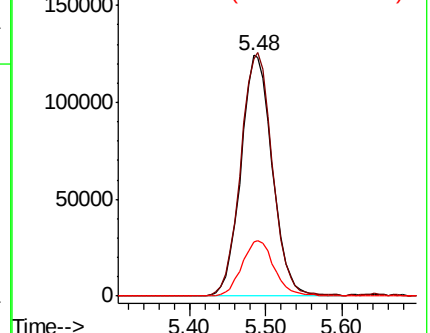
192 24.0 19.1 28.7

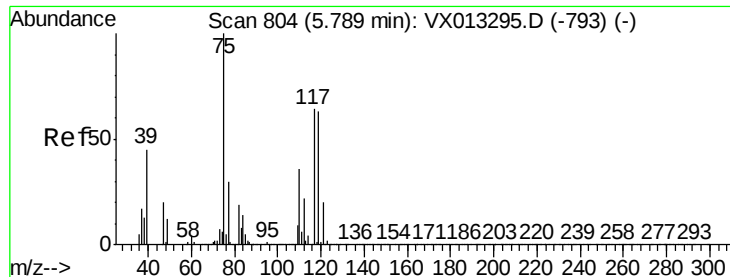


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

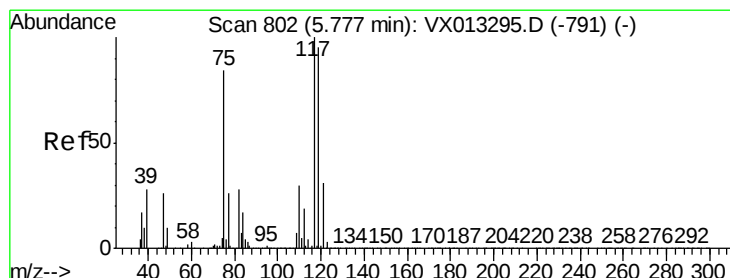
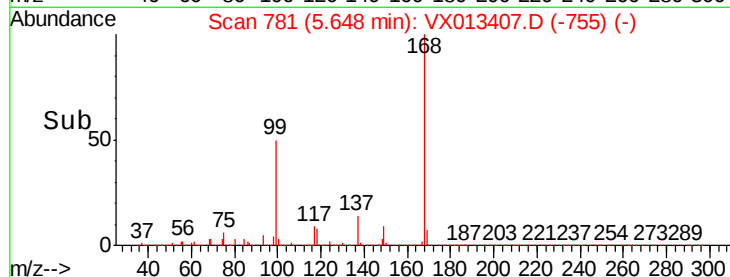
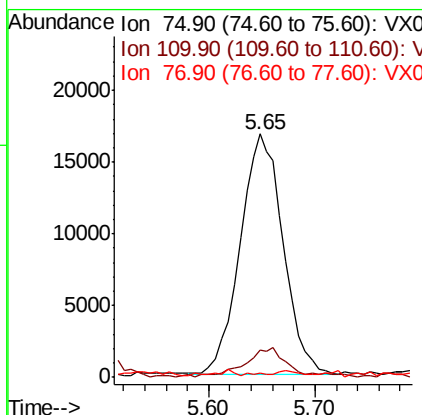
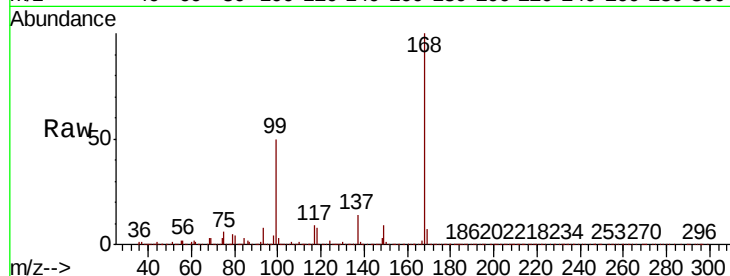




#36
 1,1-Dichloropropene
 Concen: 4.732 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013407.D
 Acq: 13 Nov 2019 15:08

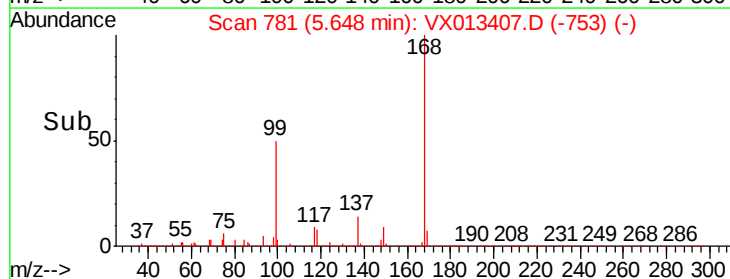
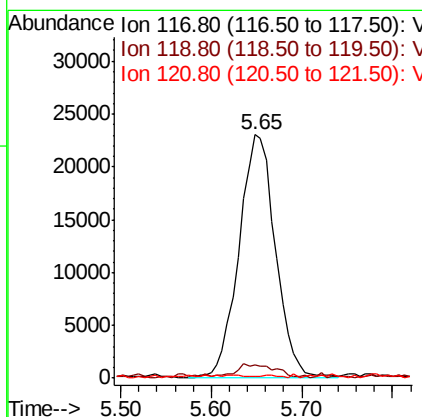
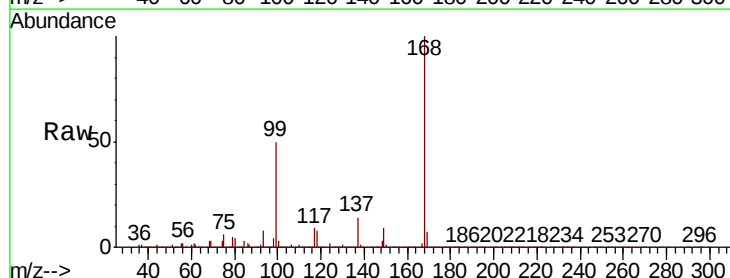
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0678

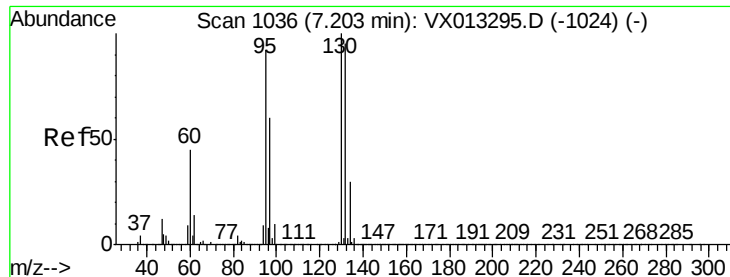
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	18.1	54.1#
77	0.0	25.0	37.4#



#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

ClientSampled :

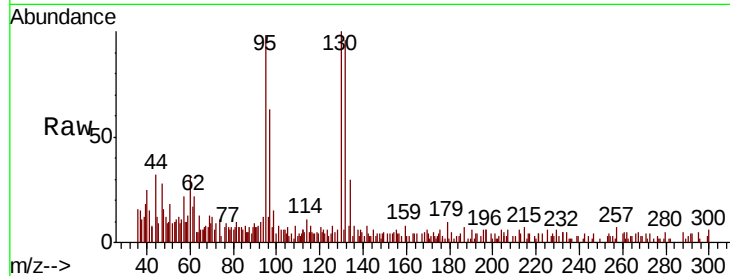
S32-0678

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

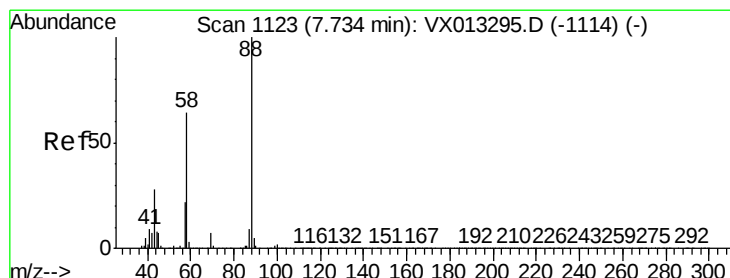
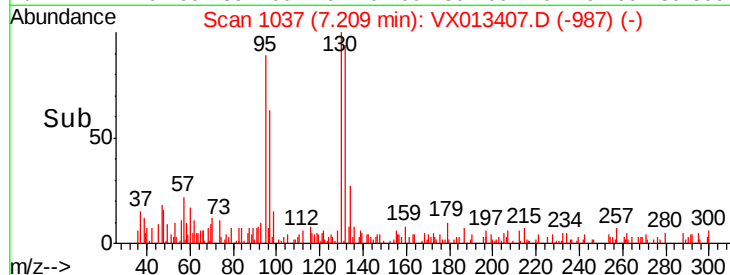
3000

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

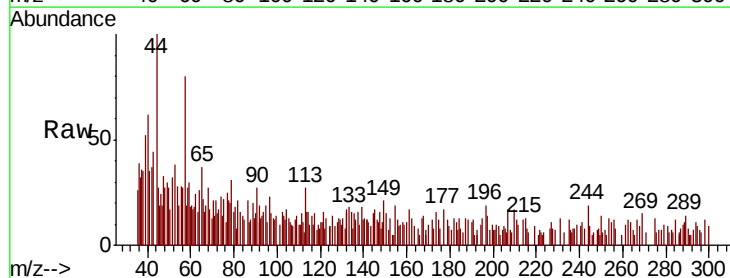
Tgt Ion: 88 Resp: 384

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

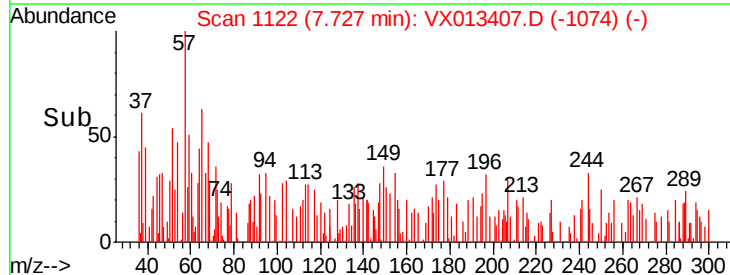
600

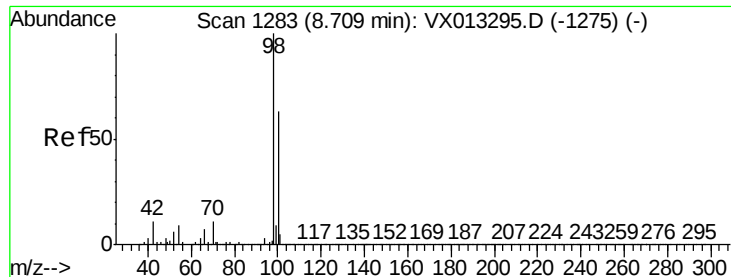
400

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

ClientSampleId :

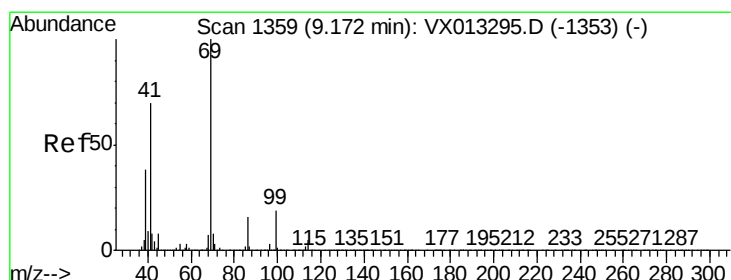
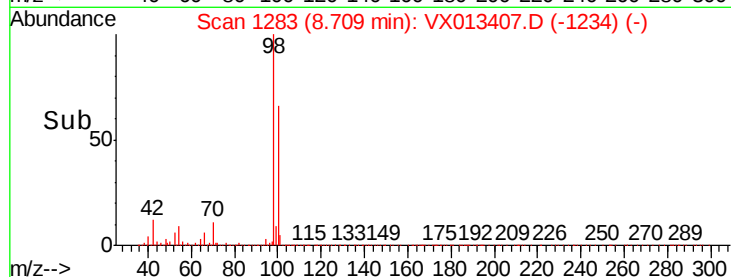
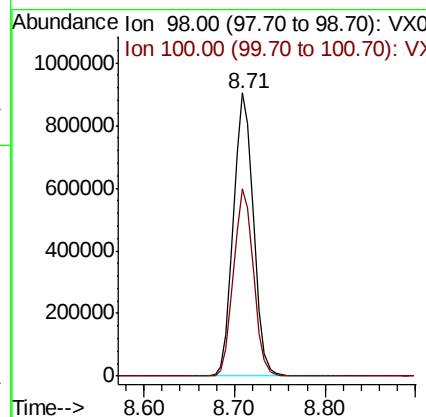
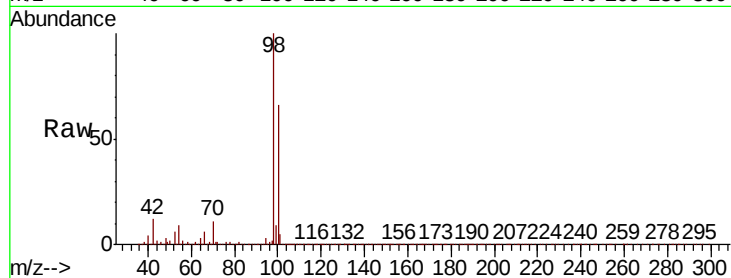
S32-0678

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

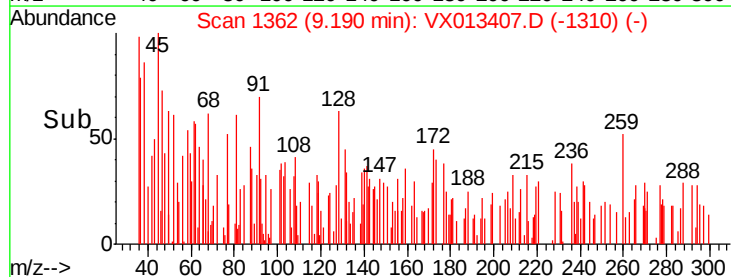
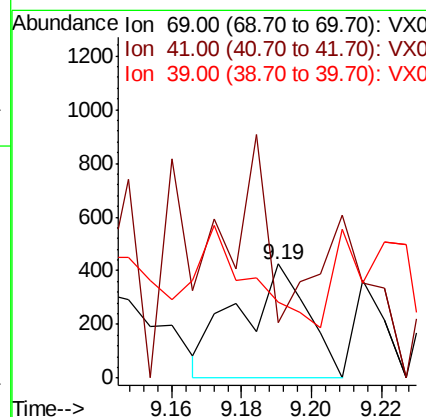
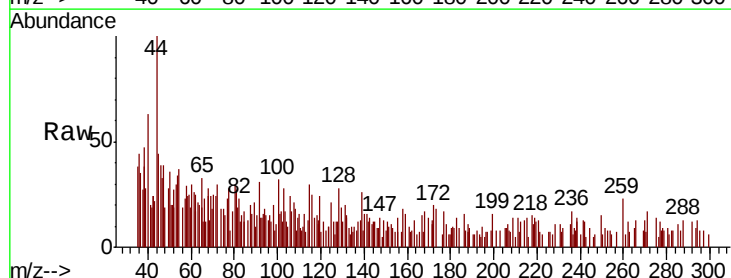
Tgt Ion: 69 Resp: 578

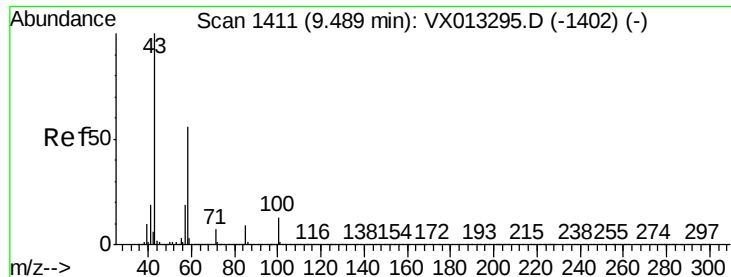
Ion Ratio Lower Upper

69 100

41 55.9 56.2 84.2#

39 67.6 31.1 46.7#

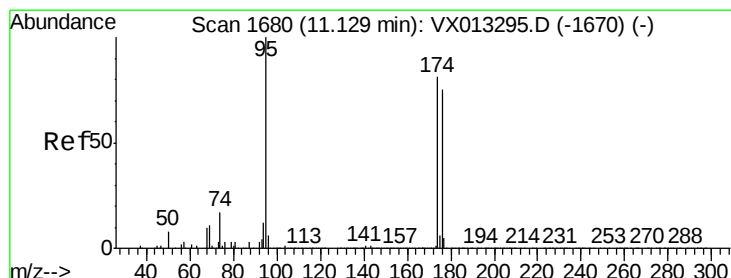
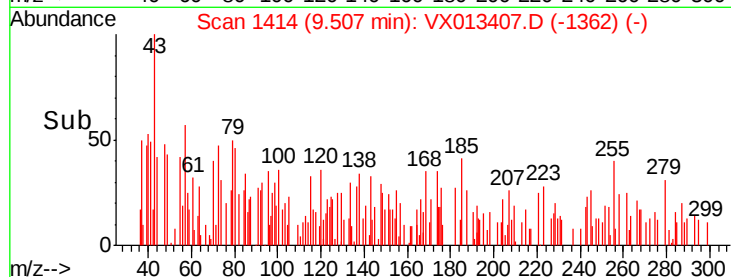
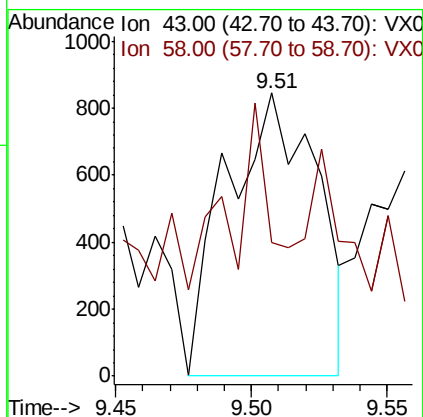
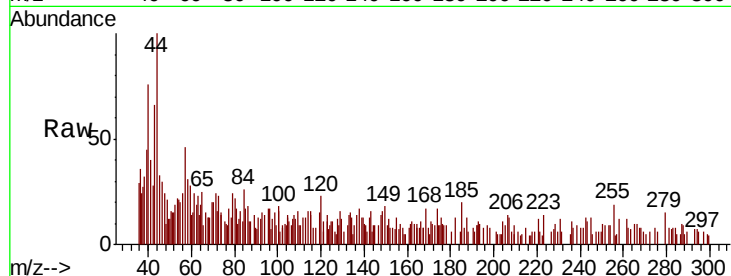




#59
2-Hexanone
Concen: 0.202 ug/l
RT: 9.51 min Scan# 1414
Delta R.T. 0.02 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

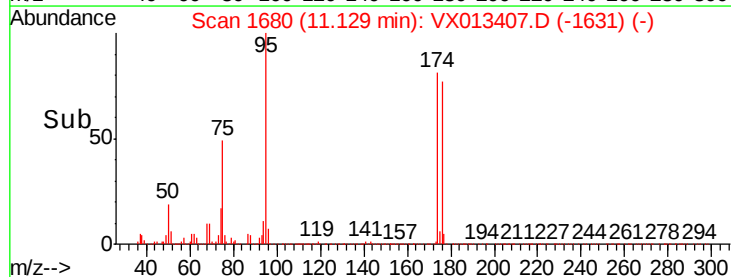
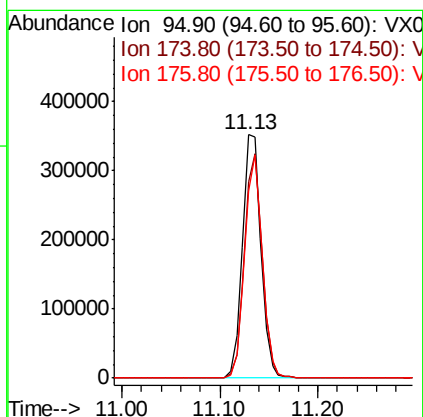
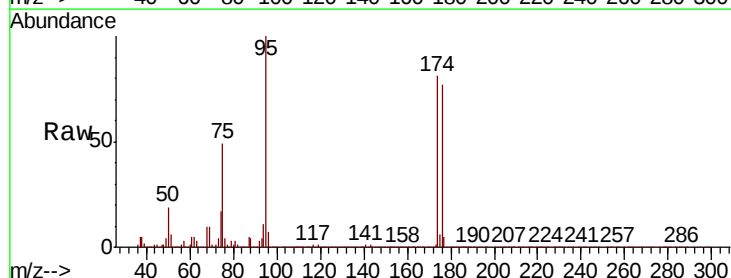
Instrument :
MSVOA_X
ClientSampleId :
S32-0678

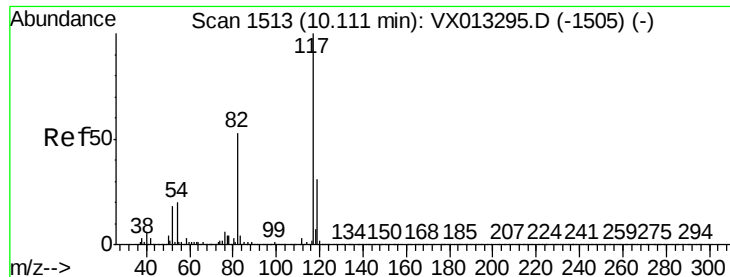
Tot Ion: 43 Resp: 1966
Ion Ratio Lower Upper
43 100
58 32.2 27.3 81.8



#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

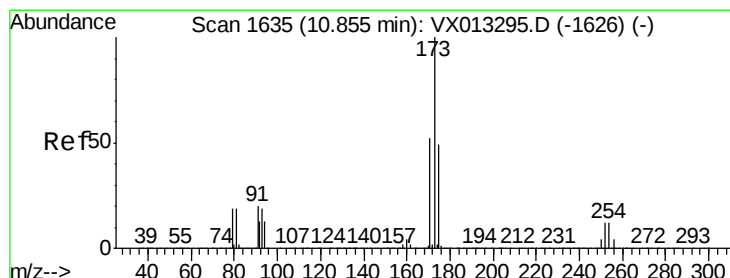
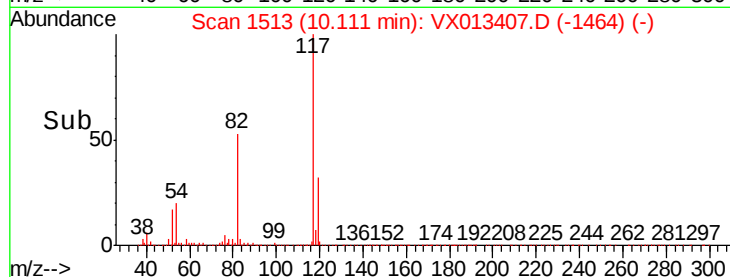
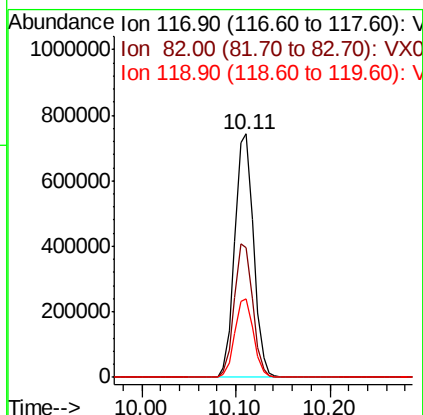
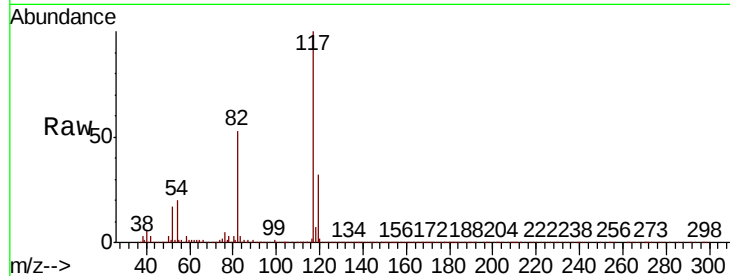




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

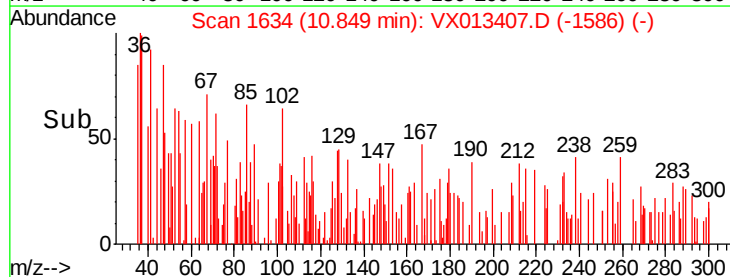
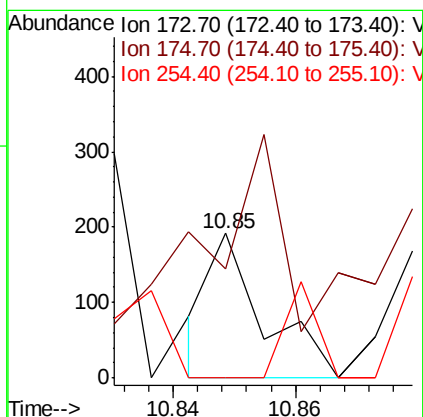
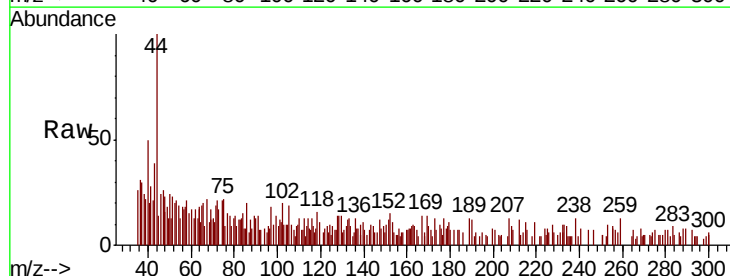
Instrument :
MSVOA_X
ClientSampleId :
S32-0678

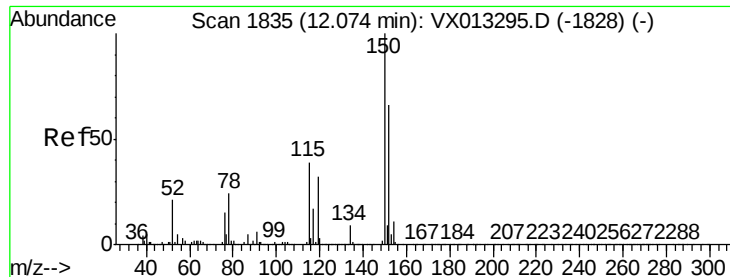
Tot Ion:117 Resp: 1030686
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.4 24.8 37.2



#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#



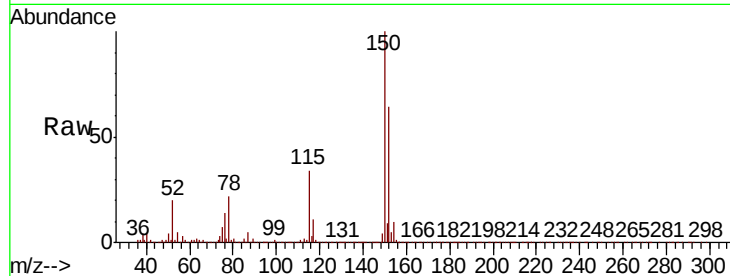


#72

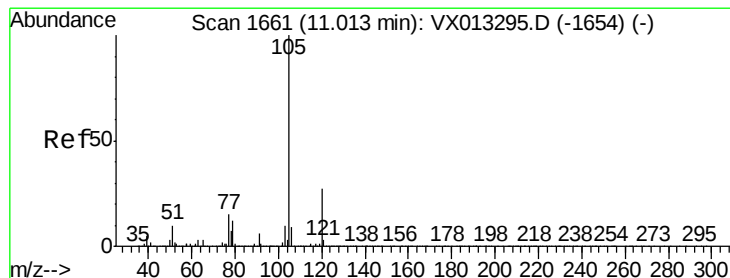
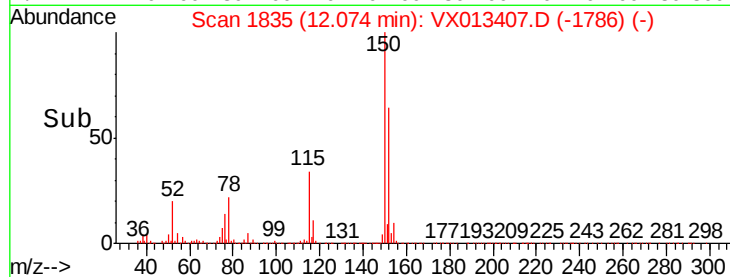
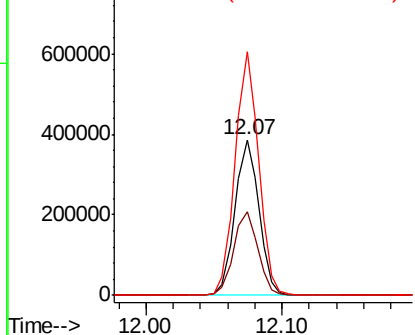
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

Instrument :
MSVOA_X
ClientSampleId :
S32-0678

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



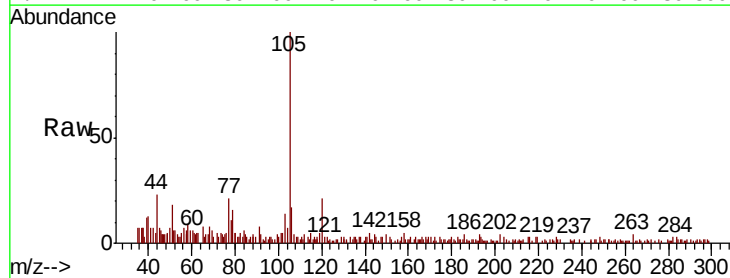
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



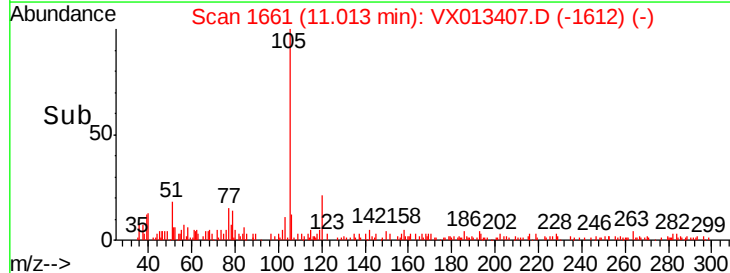
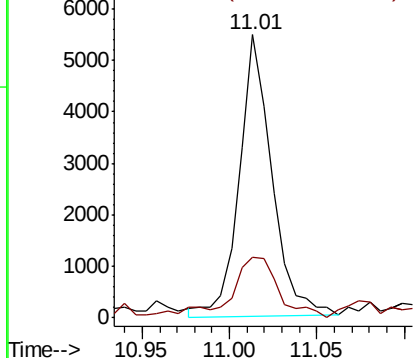
#73

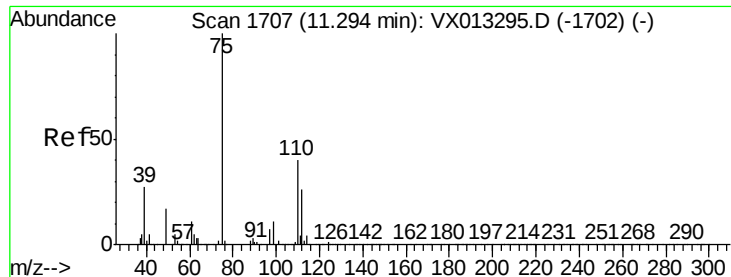
Isopropylbenzene
Concen: 0.227 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013407.D
Acq: 13 Nov 2019 15:08

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 :

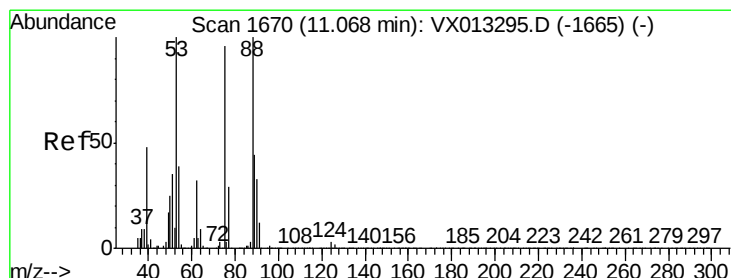
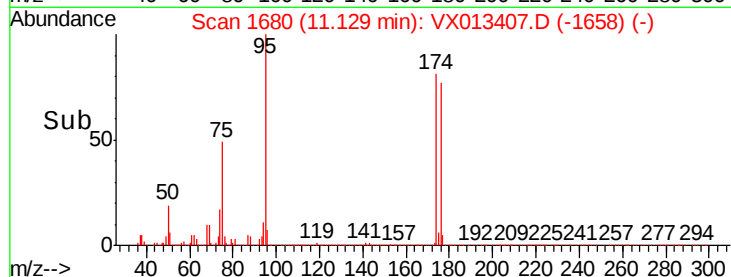
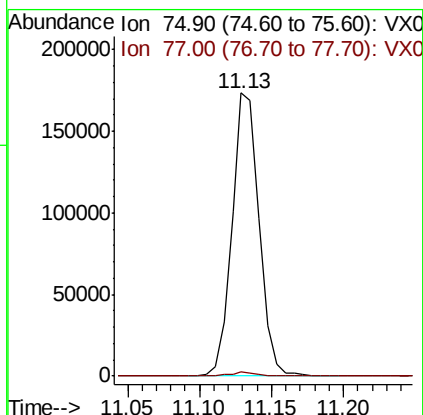
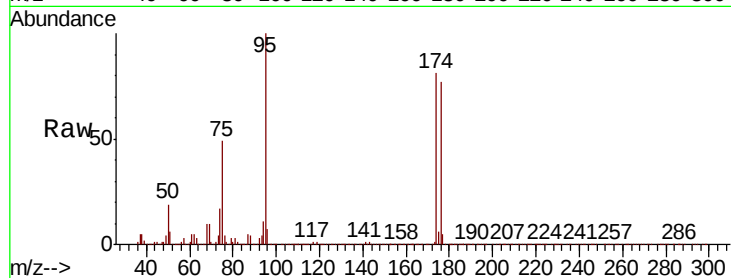
S32-0678

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

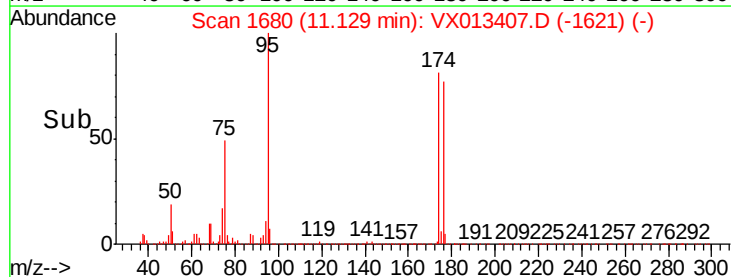
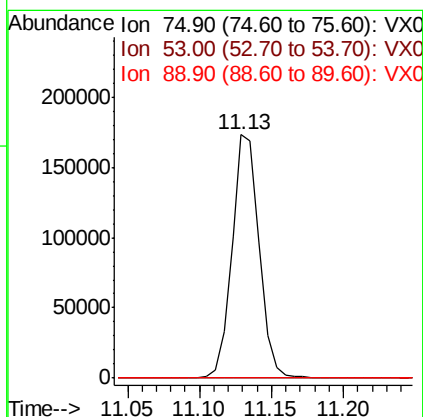
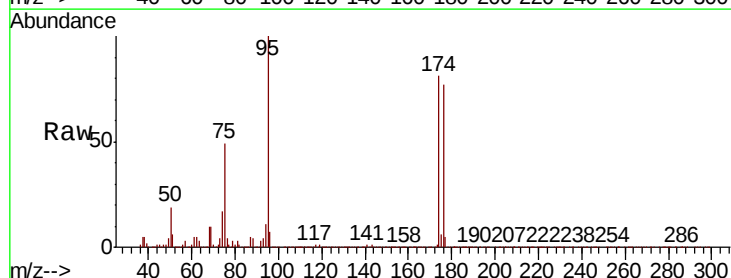
Tgt Ion: 75 Resp: 226512

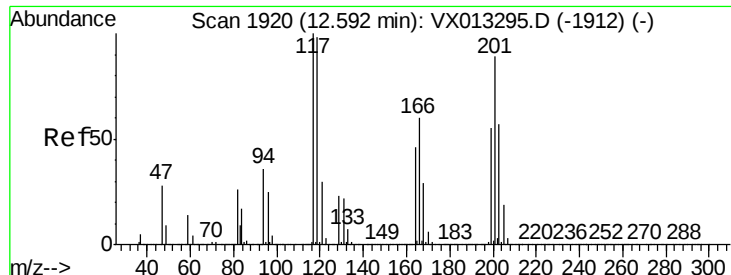
Ion Ratio Lower Upper

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 :

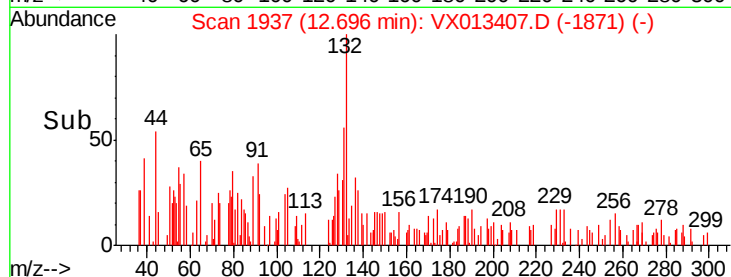
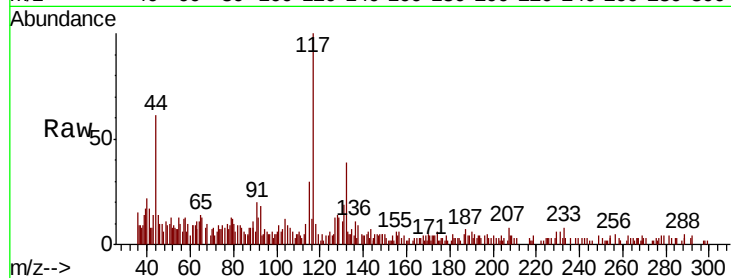
S32-0678

Tot Ion:117 Resp: 3436

Ion Ratio Lower Upper

117 100

201 5.6 43.9 131.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

