

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120319\
 Data File : VX013727.D
 Acq On : 03 Dec 2019 16:11
 Operator : JC/SP
 Sample : K6025-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 04 00:36:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	685706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1044428	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	926857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	441954	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	368280	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
35) Dibromofluoromethane	5.49	113	310287	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
50) Toluene-d8	8.71	98	1234523	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
62) 4-Bromofluorobenzene	11.14	95	422469	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	

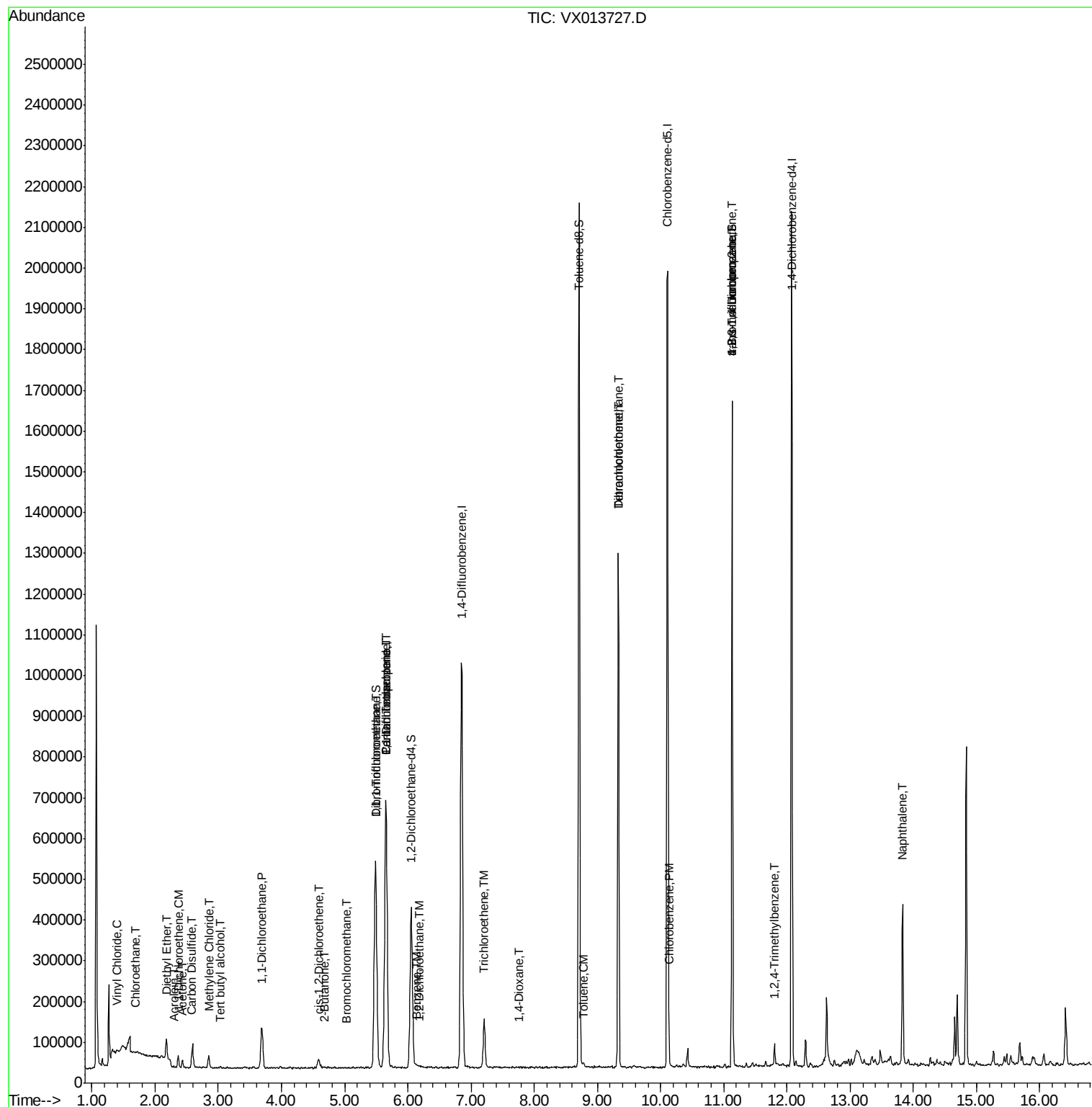
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	2547	0.264	ug/l #	60
6) Chloroethane	1.69	64	2940	0.536	ug/l #	41
8) Diethyl Ether	2.18	74	17197	3.551	ug/l	98
11) Tert butyl alcohol	3.03	59	1858	0.946	ug/l #	86
12) 1,1-Dichloroethene	2.37	96	11285	1.729	ug/l	99
13) Acrolein	2.30	56	596	6.446	ug/l	92
16) Acetone	2.43	43	20800	5.293	ug/l	97
17) Carbon Disulfide	2.57	76	7618	0.410	ug/l #	75
20) Methylene Chloride	2.85	84	15359	2.034	ug/l	83
24) 1,1-Dichloroethane	3.69	63	118830	9.533	ug/l	98
25) 2-Butanone	4.69	43	2108	0.361	ug/l #	60
27) cis-1,2-Dichloroethene	4.59	96	13683	1.676	ug/l	94
28) Bromochloromethane	5.04	49	1085	0.208	ug/l #	31
32) 1,1,1-Trichloroethane	5.49	97	146869	13.902	ug/l	100
36) 1,1-Dichloropropene	5.65	75	45399	4.789	ug/l #	52
38) Carbon Tetrachloride	5.65	117	60797	6.954	ug/l #	17
40) Benzene	6.14	78	11421	0.396	ug/l	91
42) 1,2-Dichloroethane	6.18	62	3344	0.340	ug/l	85
44) Trichloroethene	7.21	130	49551	6.253	ug/l	99
49) 1,4-Dioxane	7.75	88	242	1.271	ug/l #	1
52) Toluene	8.78	92	4879	0.272	ug/l #	70
60) Dibromochloromethane	9.33	129	219383	29.243	ug/l #	11
64) Tetrachloroethene	9.33	164	249388	36.081	ug/l	98
65) Chlorobenzene	10.14	112	4476	0.233	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	208534	20.979	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	208534	57.394	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	24922	0.966	ug/l	97
95) Naphthalene	13.83	128	272172	9.091	ug/l	99

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

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Quant Time: Dec 04 00:36:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
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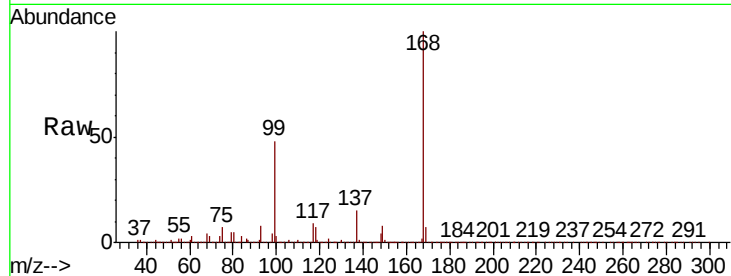


#1

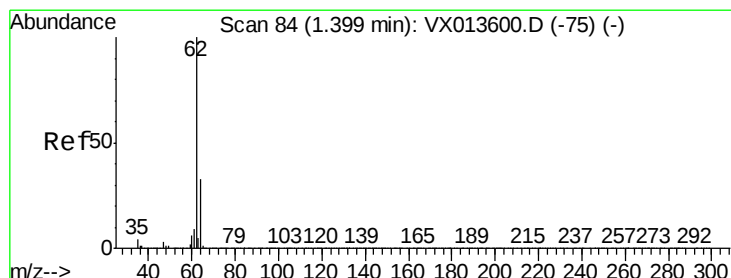
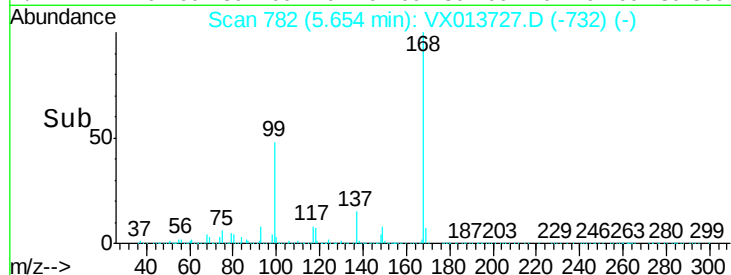
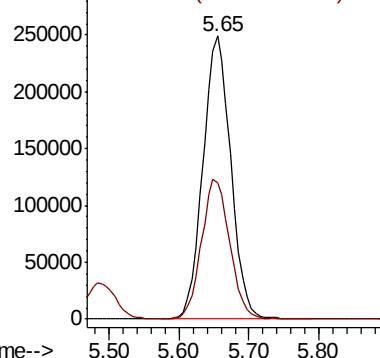
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:168 Resp: 685706
 Ion Ratio Lower Upper
 168 100
 99 48.1 39.8 59.8



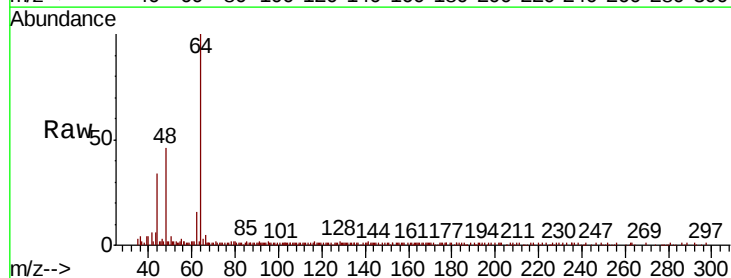
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



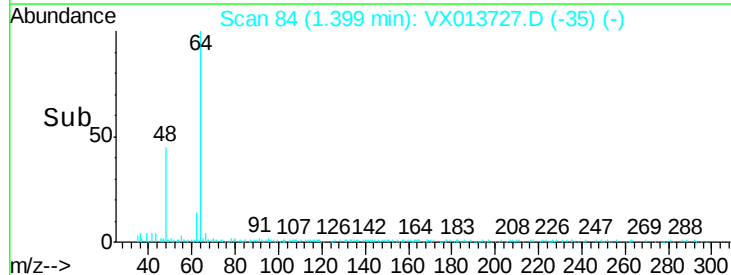
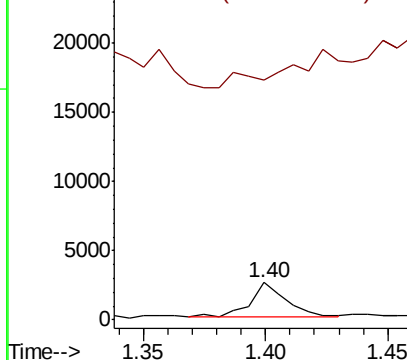
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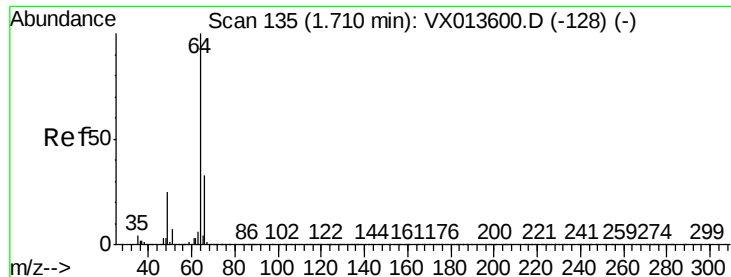
Vinyl Chloride
 Concen: 0.264 ug/l
 RT: 1.40 min Scan# 84
 Delta R.T. -0.00 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

Tgt Ion: 62 Resp: 2547
 Ion Ratio Lower Upper
 62 100
 64 10.0 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0
 Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 0.536 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

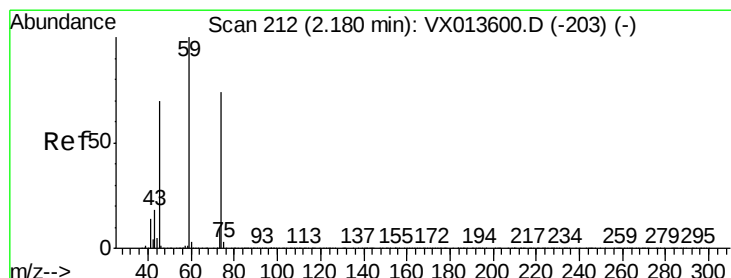
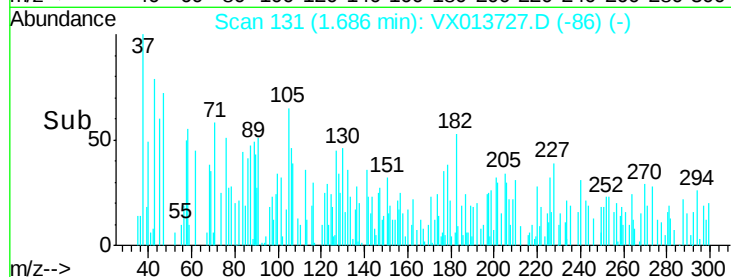
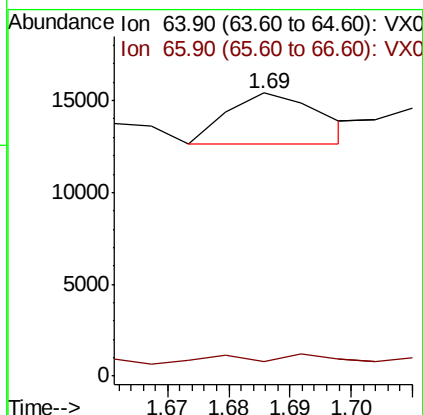
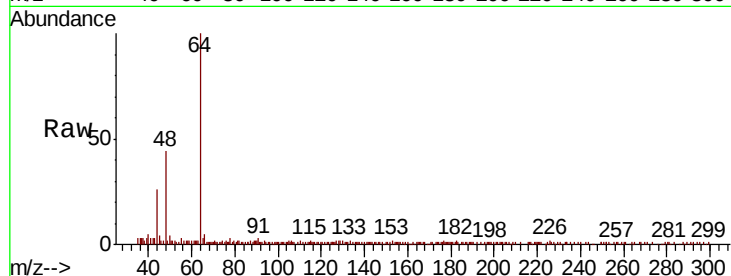
ClientSampleId :

Tot Ion: 64 Resp: 2940

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#8

Diethyl Ether

Concen: 3.551 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX013727.D

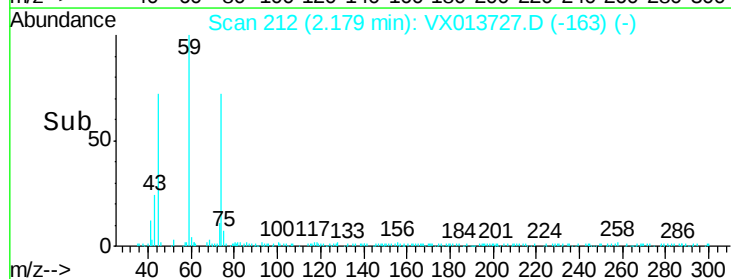
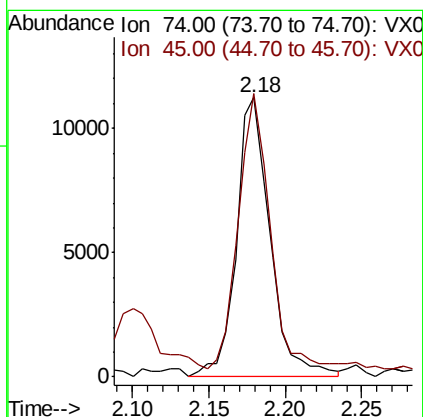
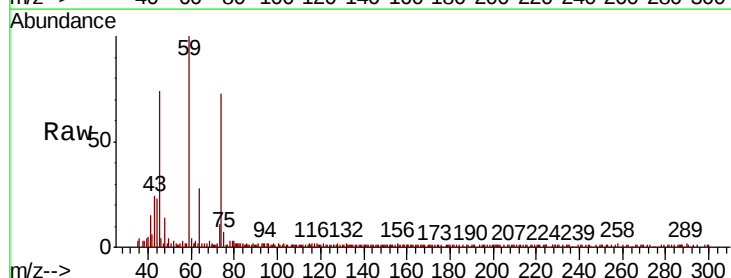
Acq: 03 Dec 2019 16:11

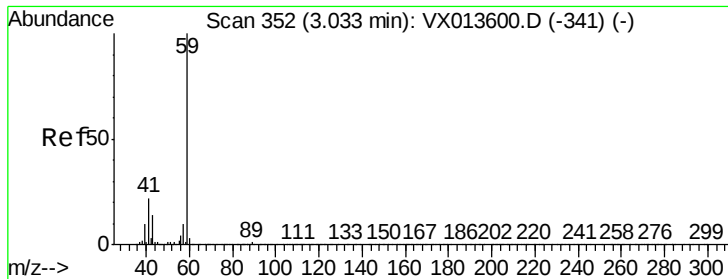
Tgt Ion: 74 Resp: 17197

Ion Ratio Lower Upper

74 100

45 95.6 48.9 146.8



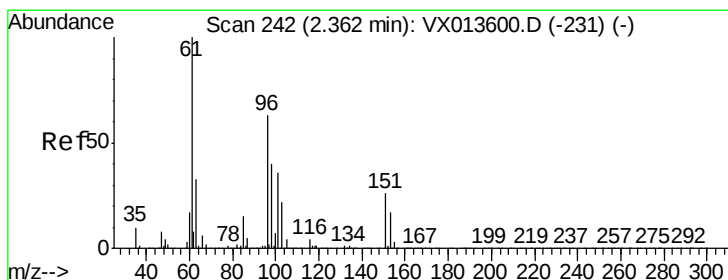
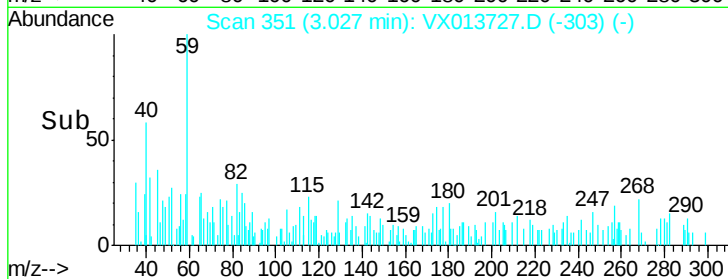
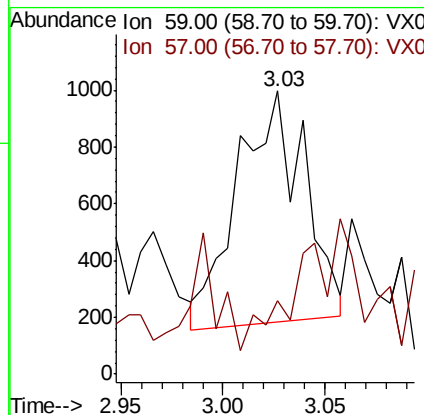
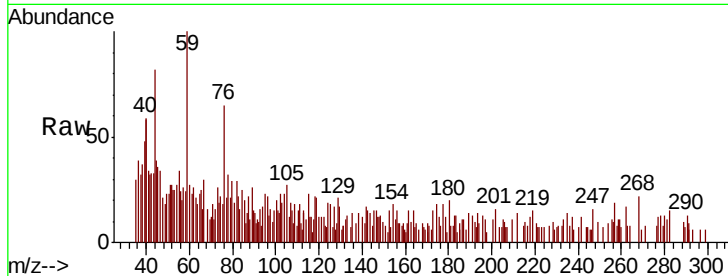


#11

Tert butyl alcohol
Concen: 0.946 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Instrument :
MSVOA_X
ClientSampled :

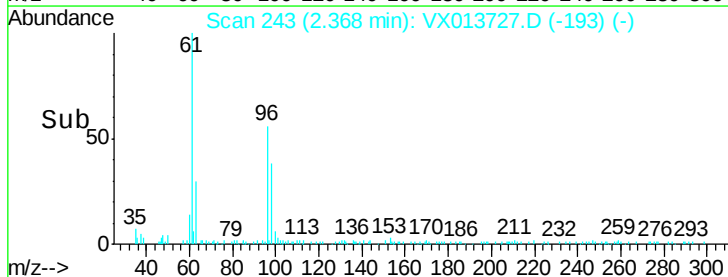
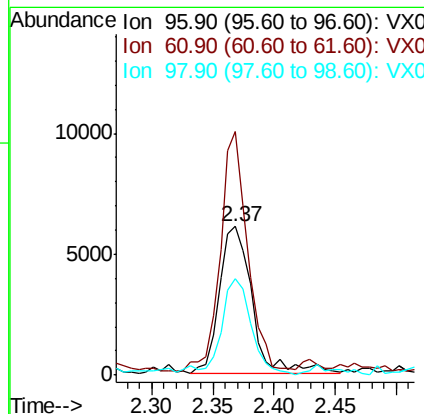
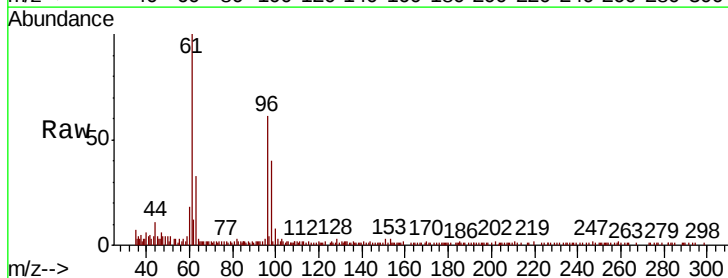
Tot Ion: 59 Resp: 1858
Ion Ratio Lower Upper
59 100
57 14.7 7.8 11.6#

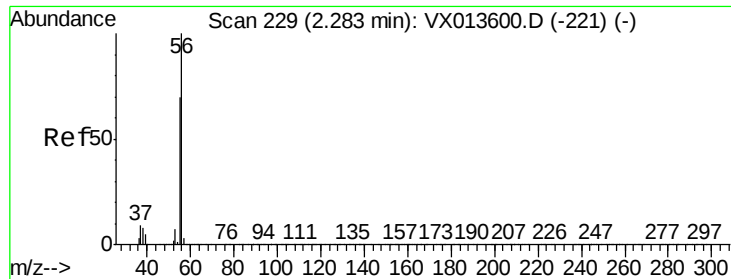


#12

1,1-Dichloroethene
Concen: 1.729 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Tgt Ion: 96 Resp: 11285
Ion Ratio Lower Upper
96 100
61 159.4 126.6 190.0
98 62.1 50.6 76.0

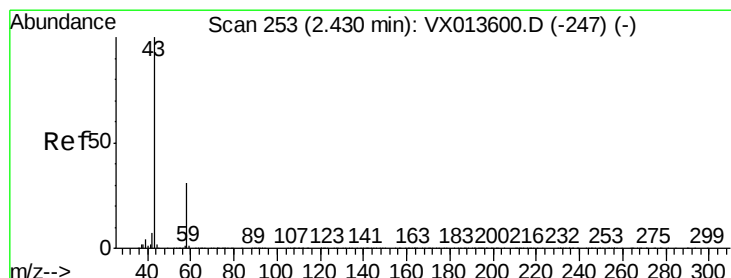
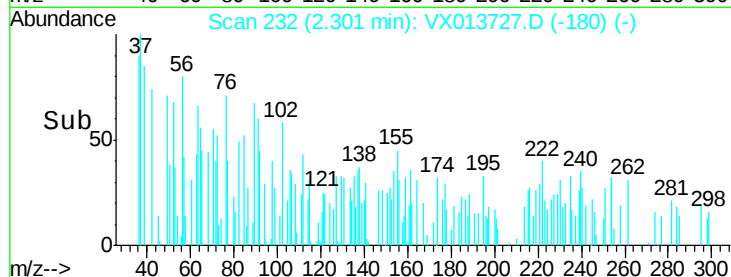
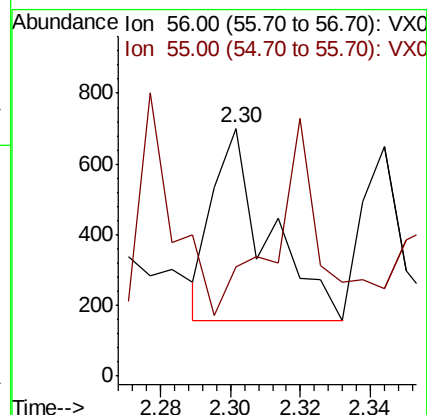
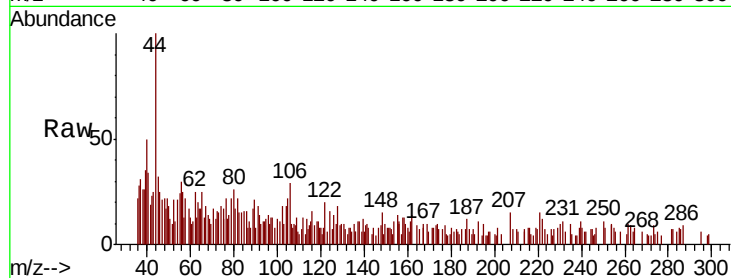




#13
Acrolein
Concen: 6.446 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

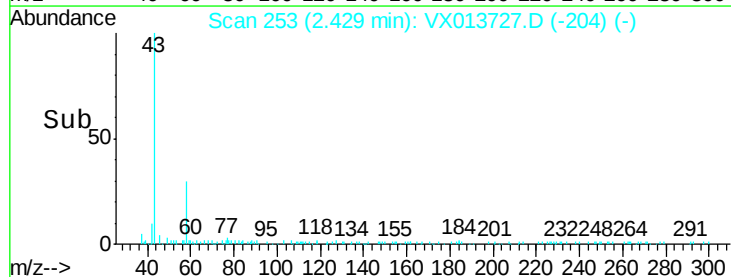
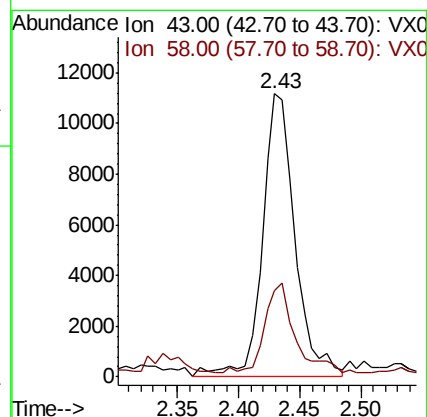
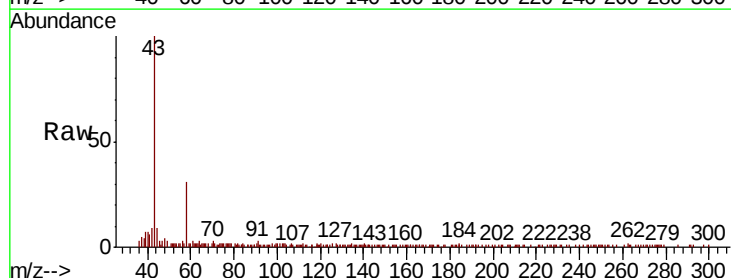
Instrument :
MSVOA_X
ClientSampleId :

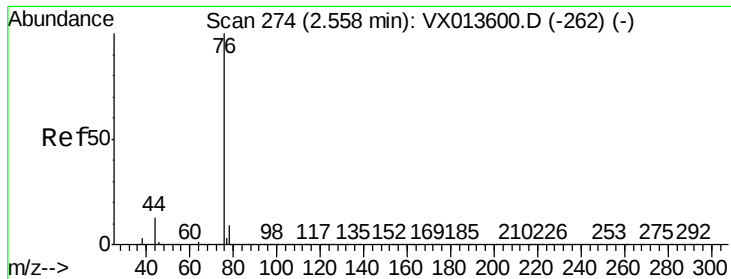
Tot Ion: 56 Resp: 596
Ion Ratio Lower Upper
56 100
55 77.0 56.2 84.4



#16
Acetone
Concen: 5.293 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Tgt Ion: 43 Resp: 20800
Ion Ratio Lower Upper
43 100
58 29.0 24.6 36.8





#17

Carbon Disulfide

Concen: 0.410 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

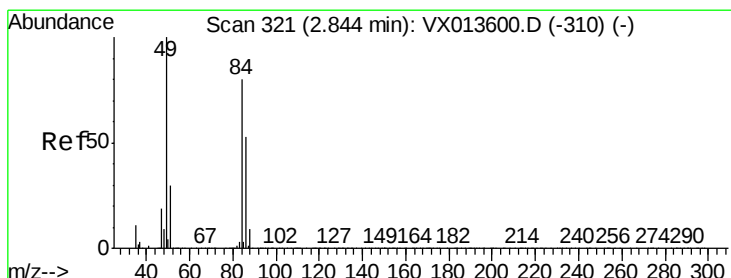
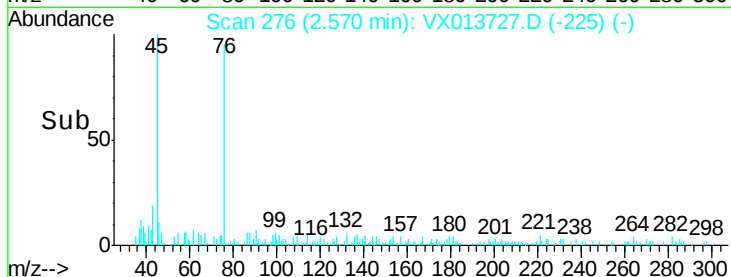
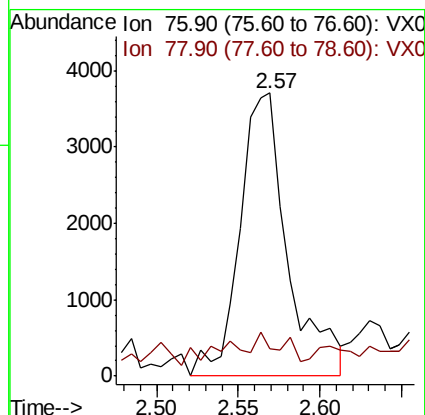
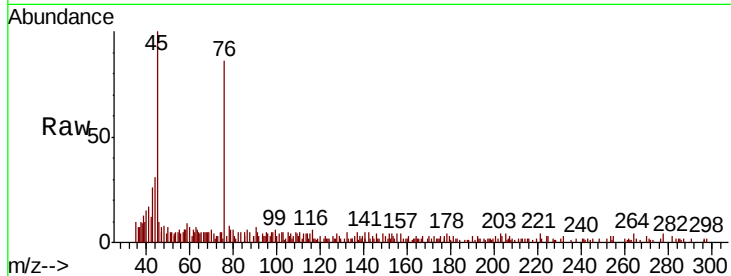
ClientSampleId :

Tot Ion: 76 Resp: 7618

Ion Ratio Lower Upper

76 100

78 0.1 7.2 10.8#



#20

Methylene Chloride

Concen: 2.034 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Tgt Ion: 84 Resp: 15359

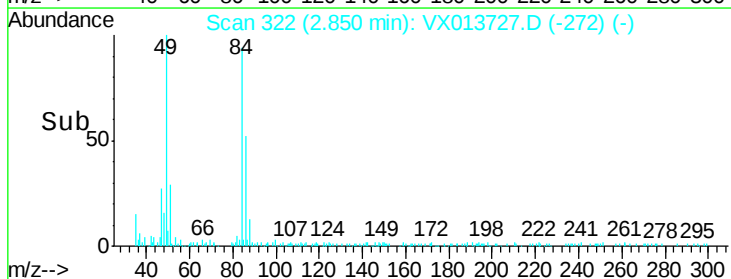
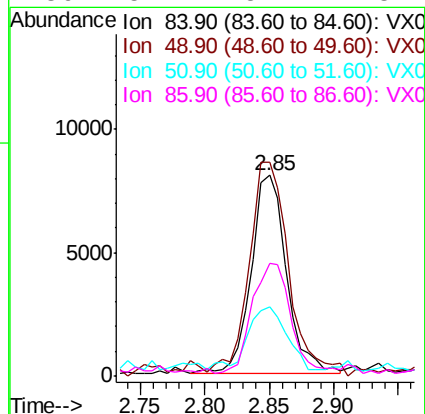
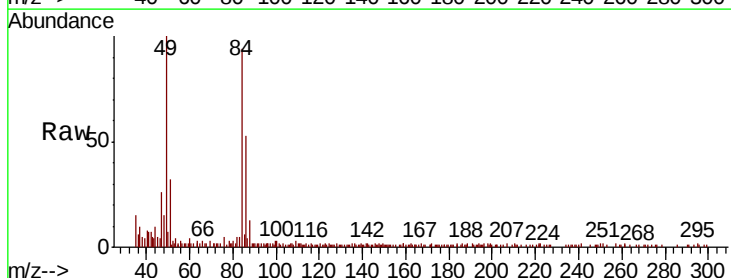
Ion Ratio Lower Upper

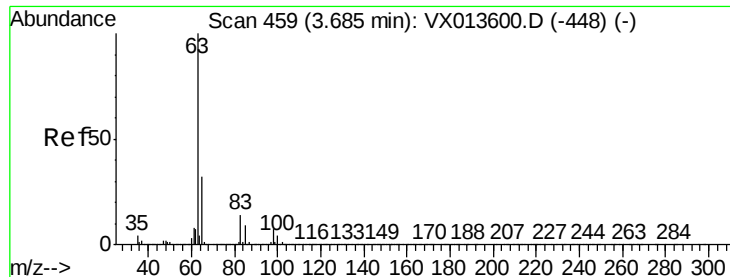
84 100

49 101.2 99.7 149.5

51 30.3 29.9 44.9

86 54.2 52.2 78.4





#24

1,1-Dichloroethane

Concen: 9.533 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

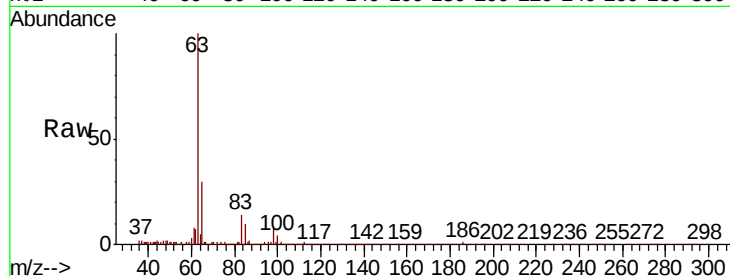
Tot Ion: 63 Resp: 118830

Ion Ratio Lower Upper

63 100

98 7.9 3.5 10.4

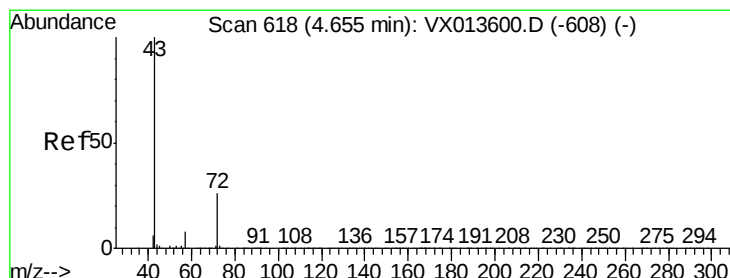
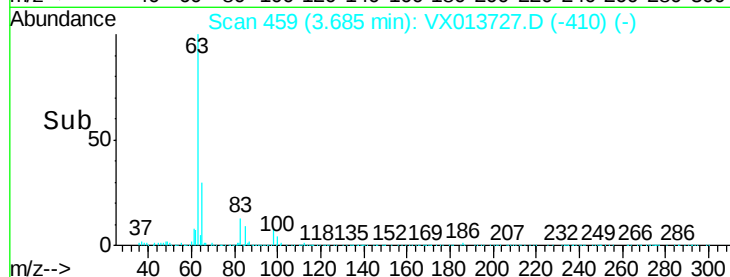
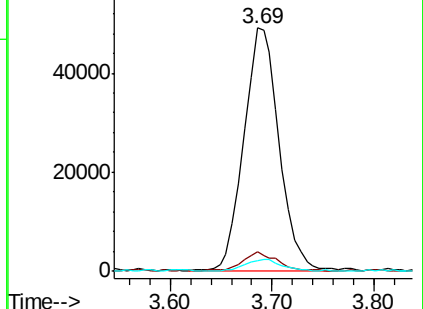
100 3.7 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.361 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.03 min

Lab File: VX013727.D

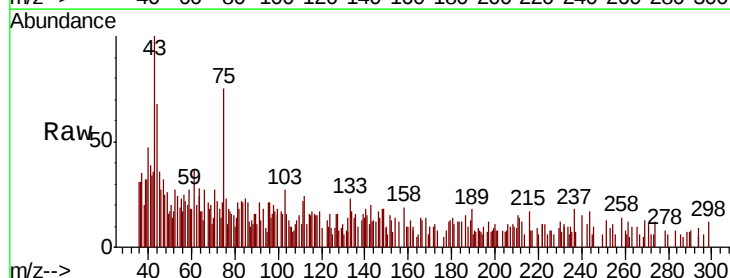
Acq: 03 Dec 2019 16:11

Tgt Ion: 43 Resp: 2108

Ion Ratio Lower Upper

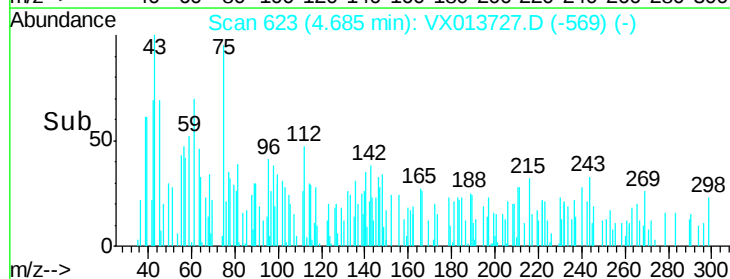
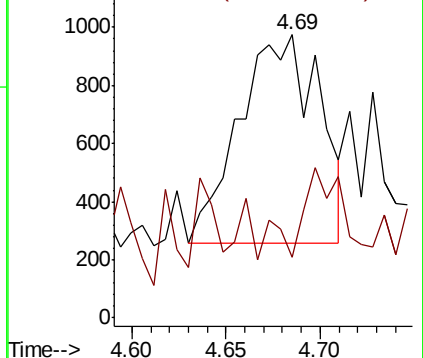
43 100

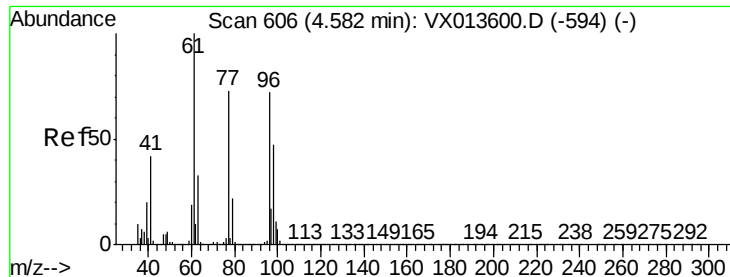
72 5.3 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



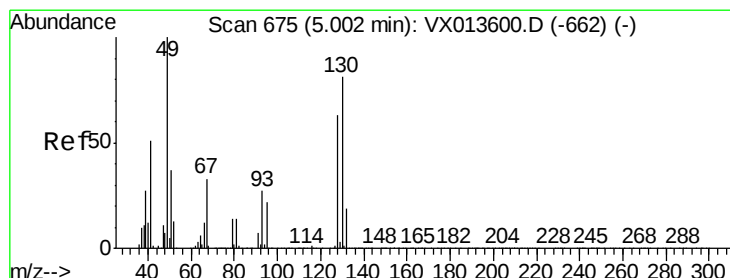
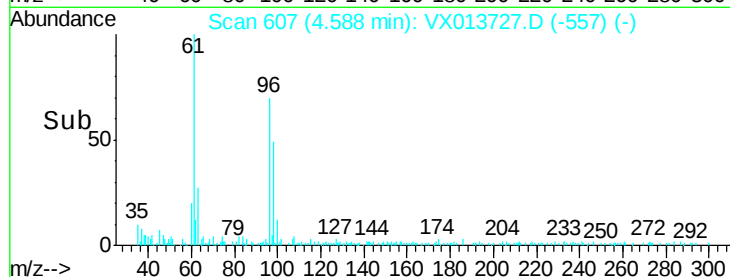
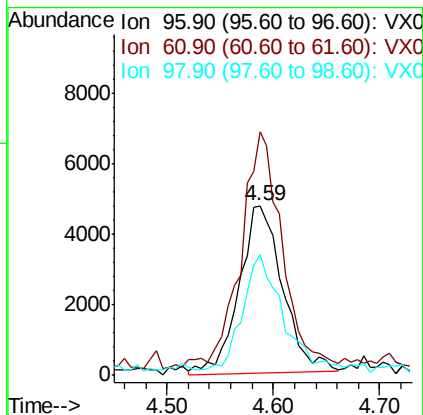
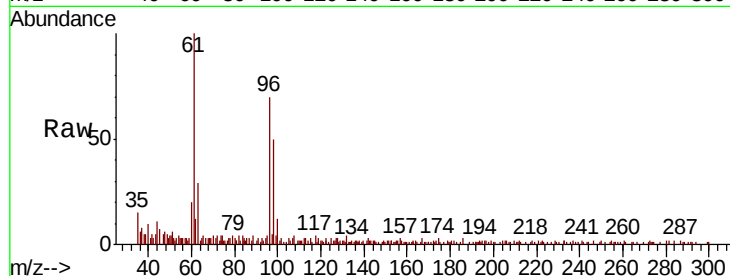


#27

cis-1,2-Dichloroethene
Concen: 1.676 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Instrument :
MSVOA_X
ClientSampled :

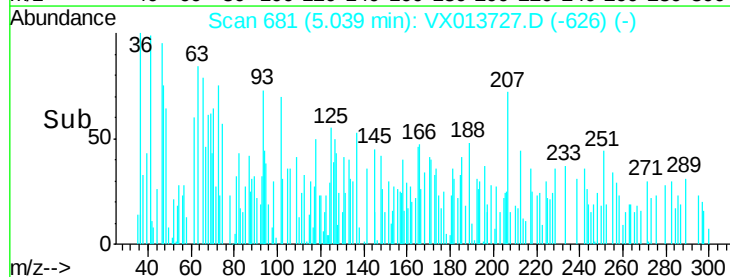
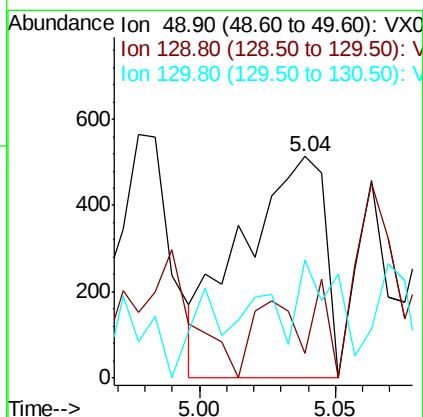
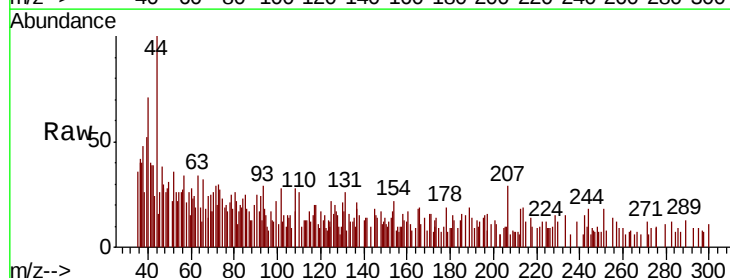
Tot Ion	Ratio	Lower	Upper
96	100		
61	132.5	0.0	286.4
98	63.4	0.0	127.4

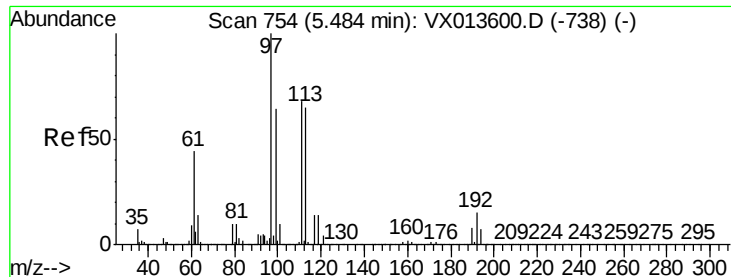


#28

Bromochloromethane
Concen: 0.208 ug/l
RT: 5.04 min Scan# 681
Delta R.T. 0.04 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.0
130	18.2	65.4	98.0#





#32

1,1,1-Trichloroethane

Concen: 13.902 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

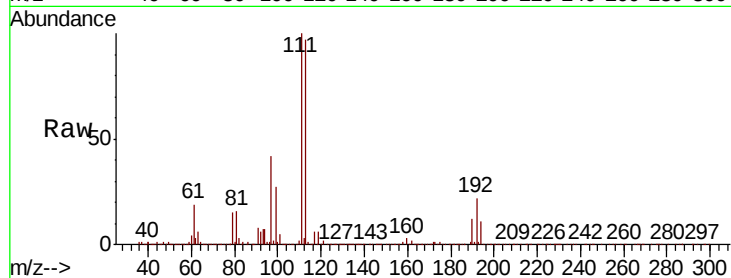
Tot Ion: 97 Resp: 146869

Ion Ratio Lower Upper

97 100

99 64.8 51.6 77.4

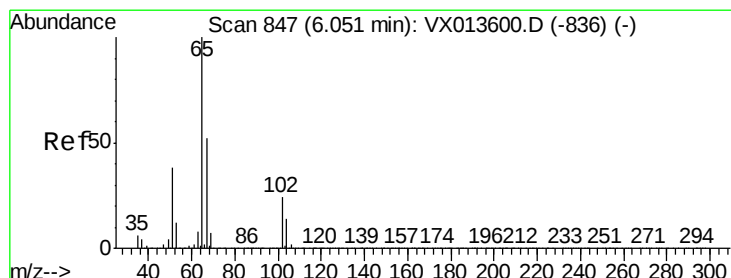
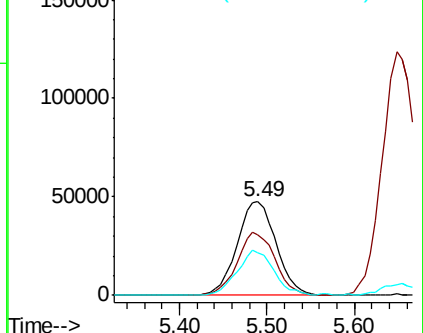
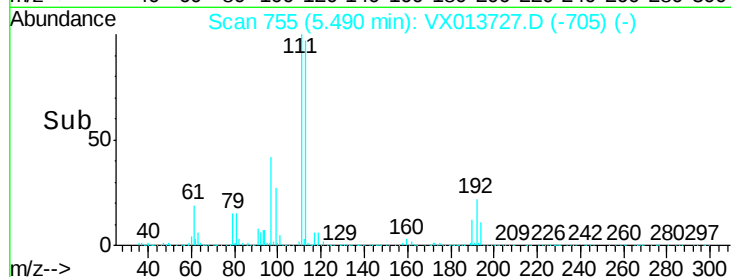
61 45.0 36.1 54.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.269 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX013727.D

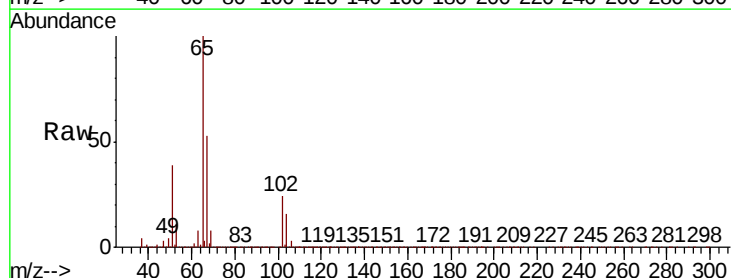
Acq: 03 Dec 2019 16:11

Tgt Ion: 65 Resp: 368280

Ion Ratio Lower Upper

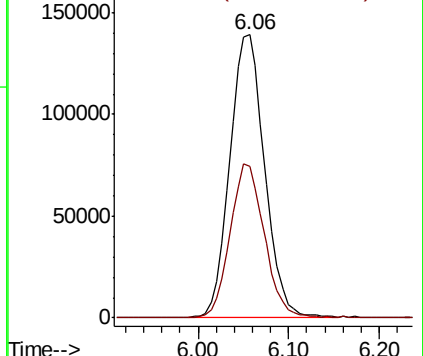
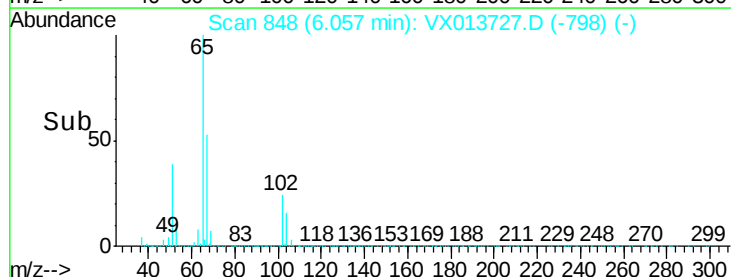
65 100

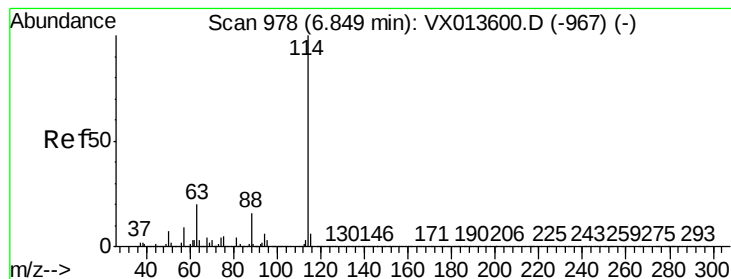
67 53.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

ClientSampleId :

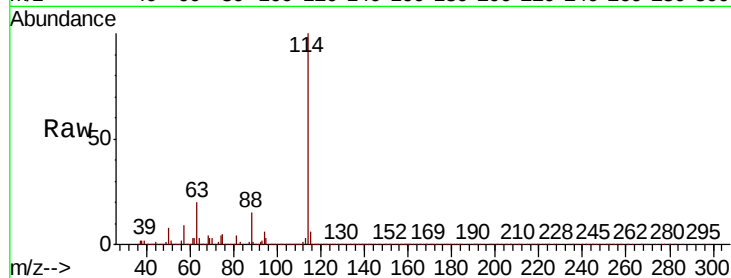
Tot Ion:114 Resp: 1044428

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

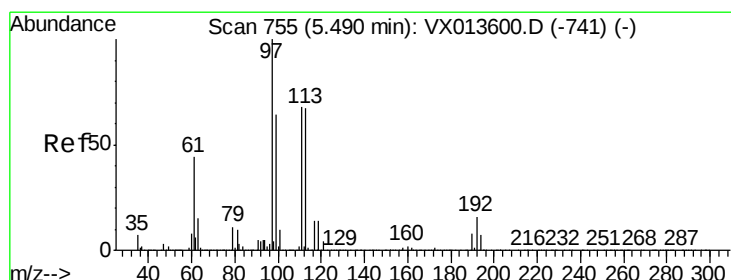
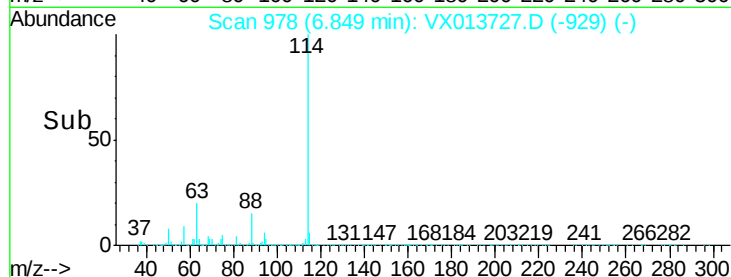
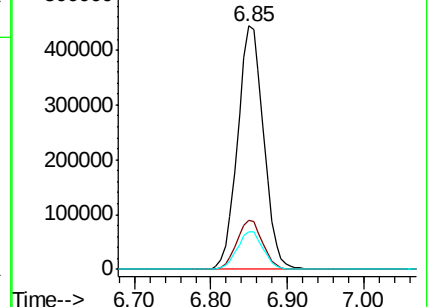
88 15.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.056 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

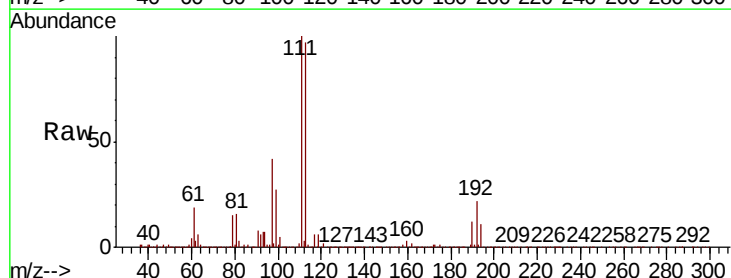
Tgt Ion:113 Resp: 310287

Ion Ratio Lower Upper

113 100

111 101.8 83.6 125.4

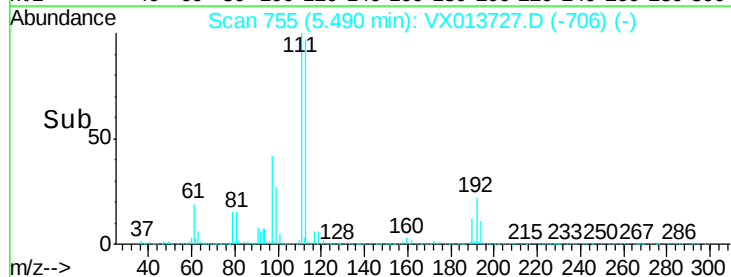
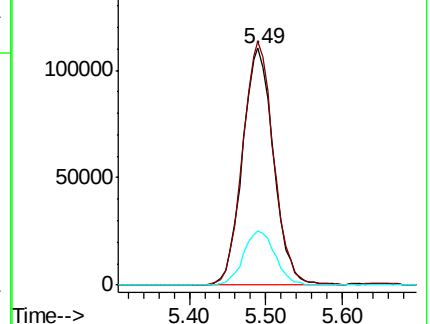
192 23.5 19.2 28.8

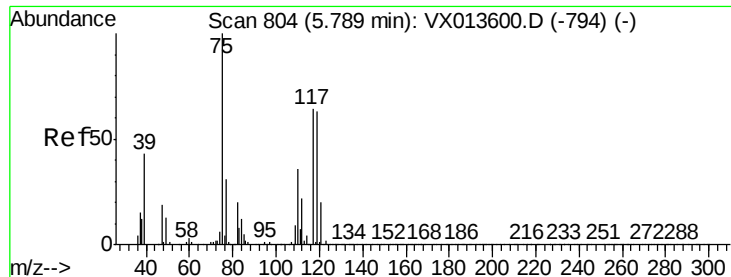


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

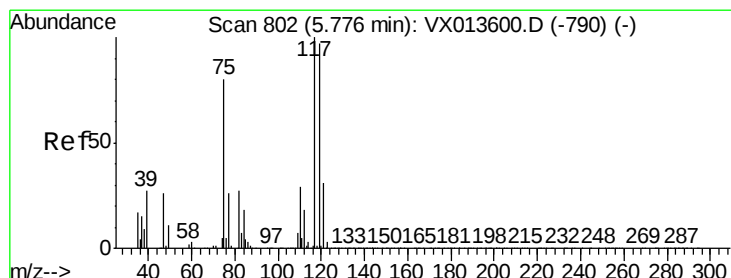
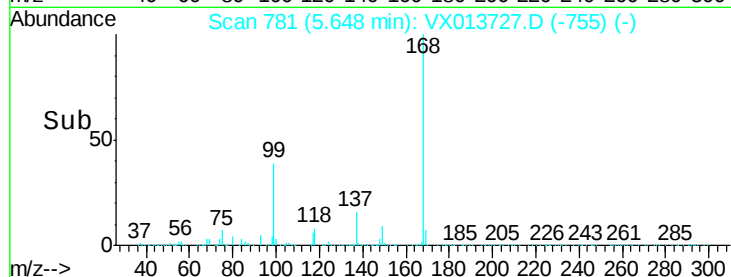
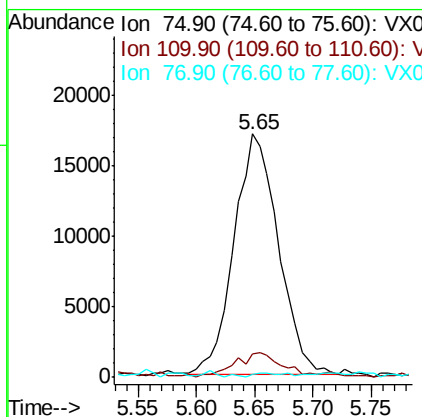
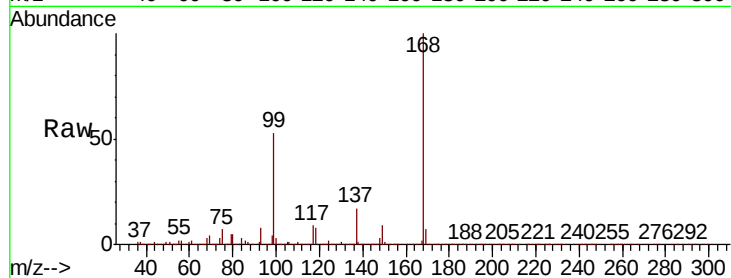




#36
 1,1-Dichloropropene
 Concen: 4.789 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

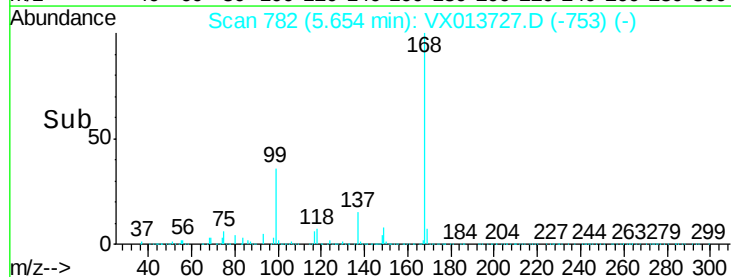
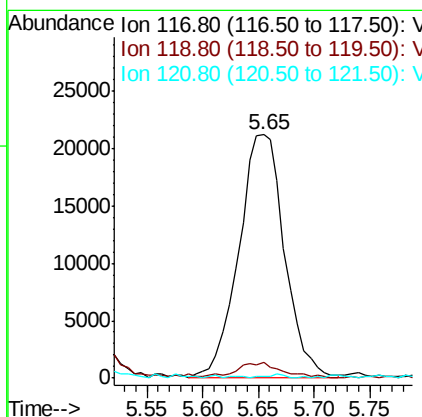
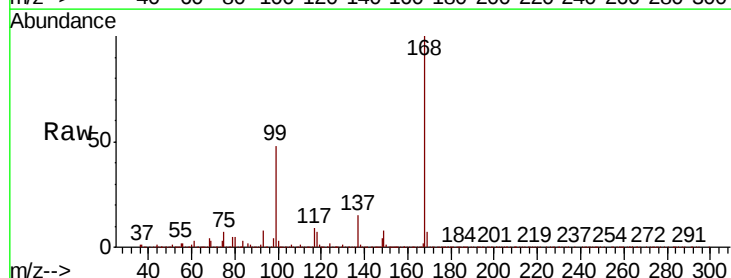
Instrument :
 MSVOA_X
 ClientSampleId :

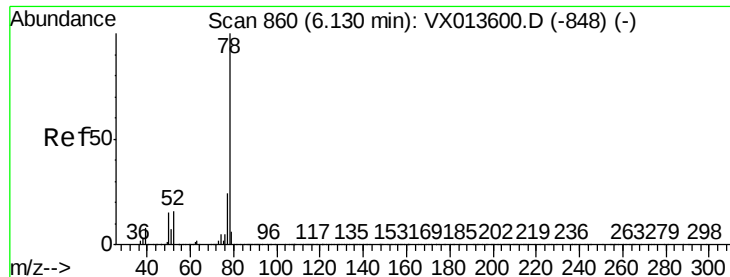
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.1#
77	1.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.954 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.5	116.3#
121	0.2	25.0	37.6#





#40

Benzene

Concen: 0.396 ug/l

RT: 6.14 min Scan# 862

Delta R.T. 0.01 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

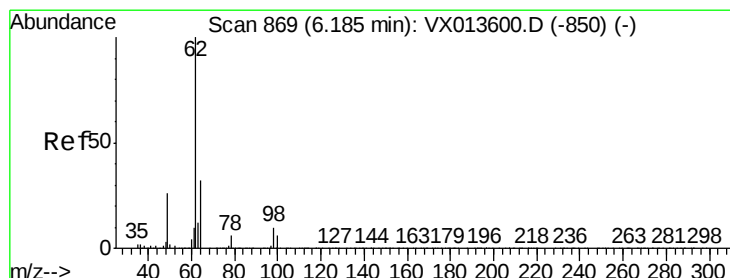
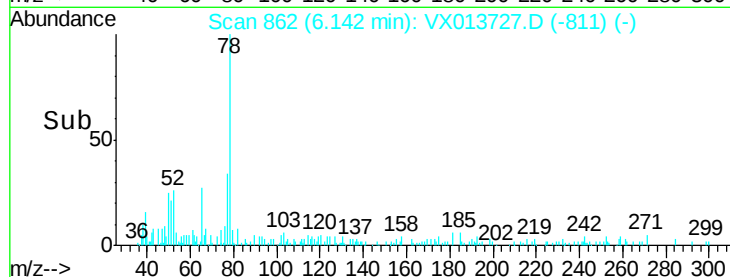
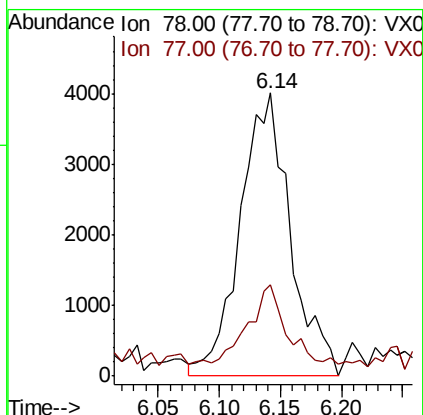
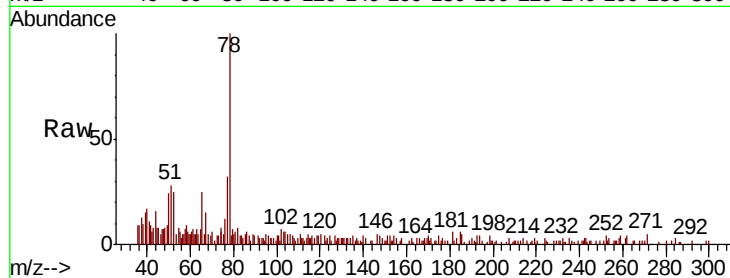
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 78 Resp: 11421

Ion Ratio Lower Upper

78 100

77 28.2 19.0 28.4



#42

1,2-Dichloroethane

Concen: 0.340 ug/l

RT: 6.18 min Scan# 869

Delta R.T. -0.00 min

Lab File: VX013727.D

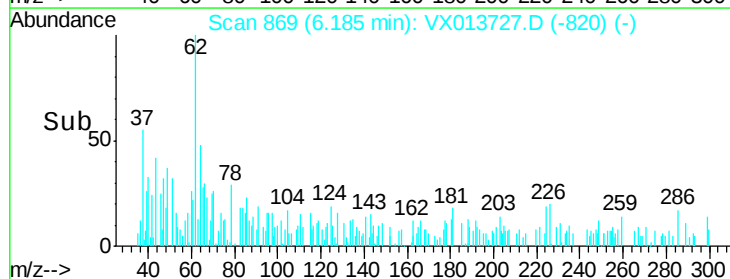
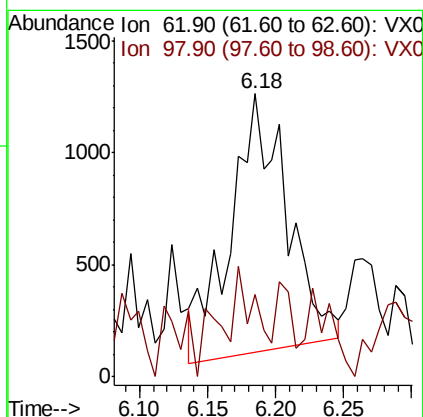
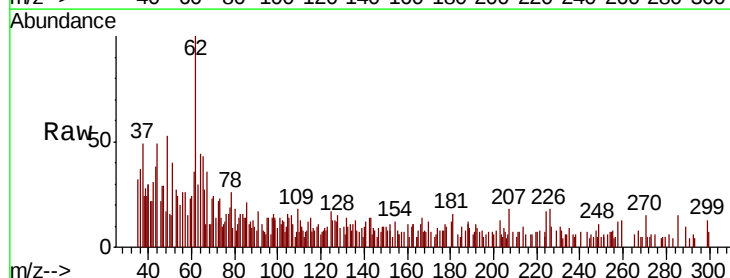
Acq: 03 Dec 2019 16:11

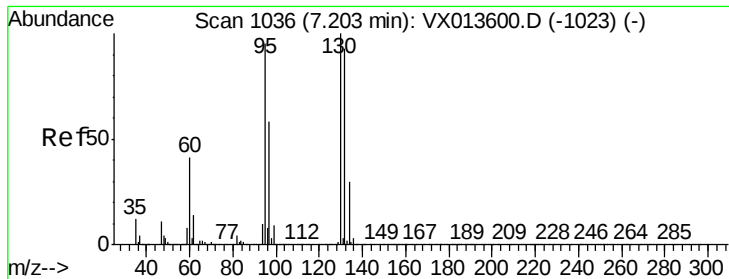
Tgt Ion: 62 Resp: 3344

Ion Ratio Lower Upper

62 100

98 15.9 0.0 20.8

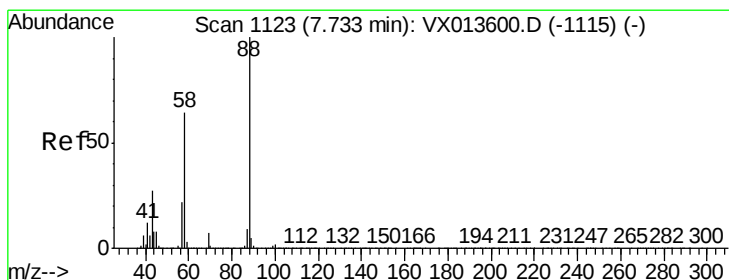
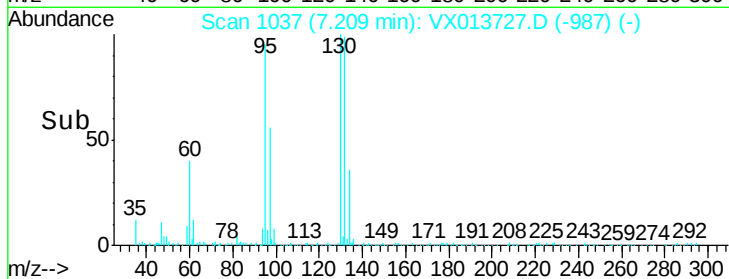
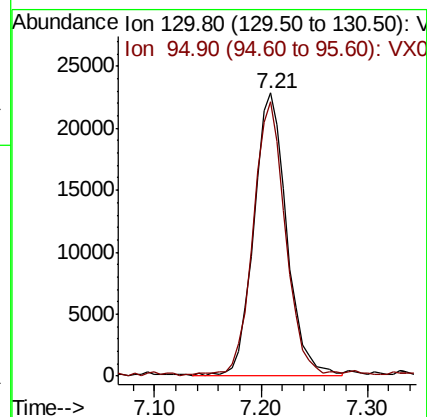
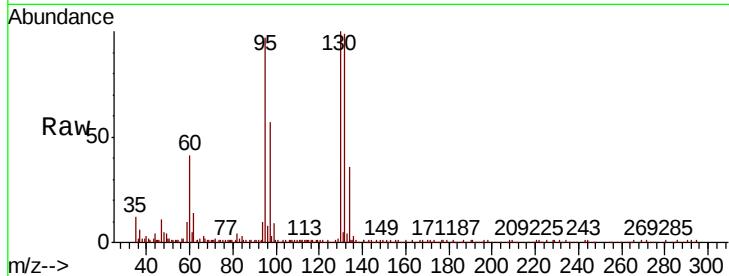




#44
 Trichloroethene
 Concen: 6.253 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

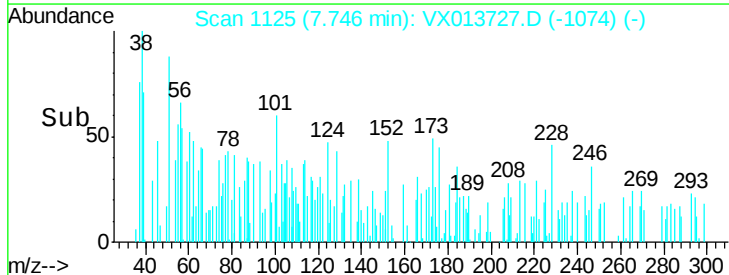
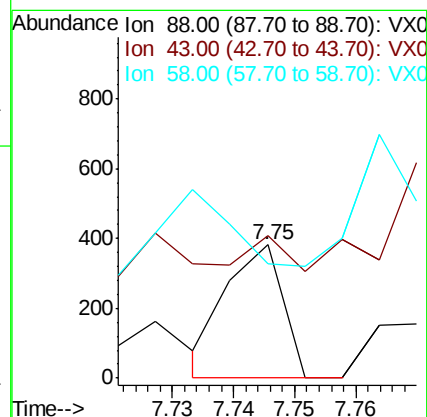
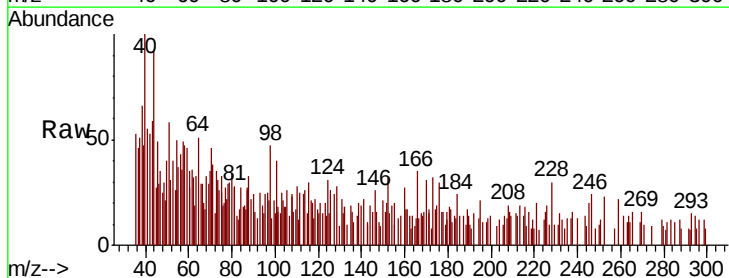
Instrument :
 MSVOA_X
 ClientSampled :

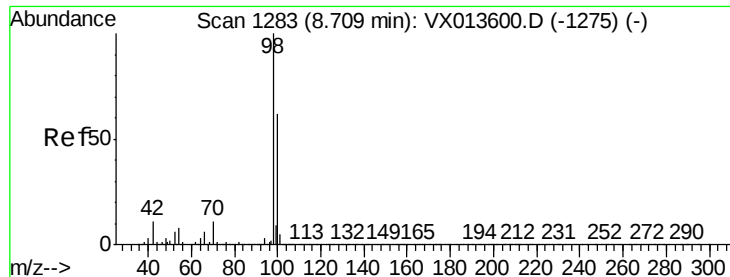
Tot Ion:130 Resp: 49551
 Ion Ratio Lower Upper
 130 100
 95 96.2 0.0 190.8



#49
 1,4-Dioxane
 Concen: 1.271 ug/l
 RT: 7.75 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

Tgt Ion: 88 Resp: 242
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.8 38.6#
 58 164.0 54.6 82.0#





#50

Toluene-d8

Concen: 49.074 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

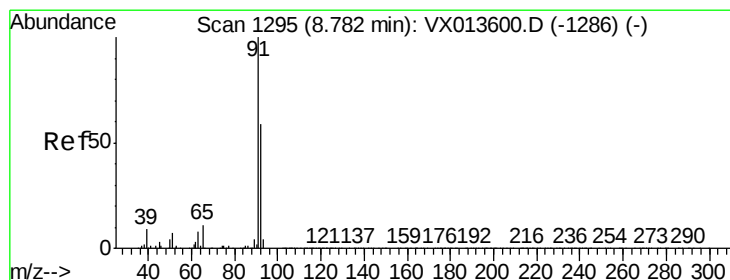
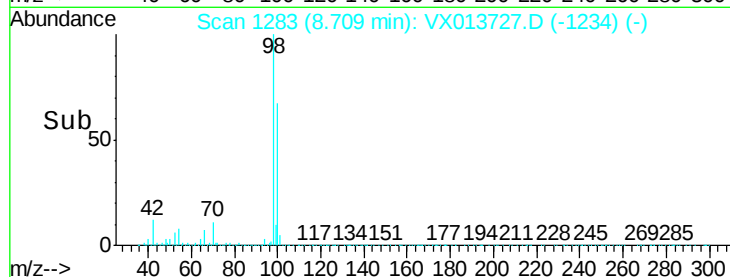
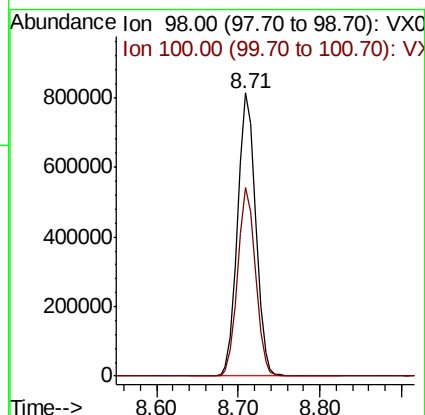
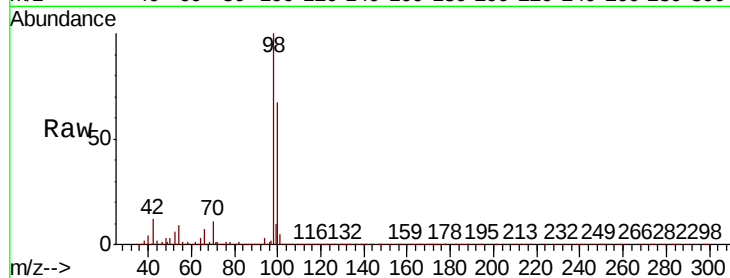
ClientSampleId :

Tot Ion: 98 Resp: 1234523

Ion Ratio Lower Upper

98 100

100 65.4 53.1 79.7



#52

Toluene

Concen: 0.272 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013727.D

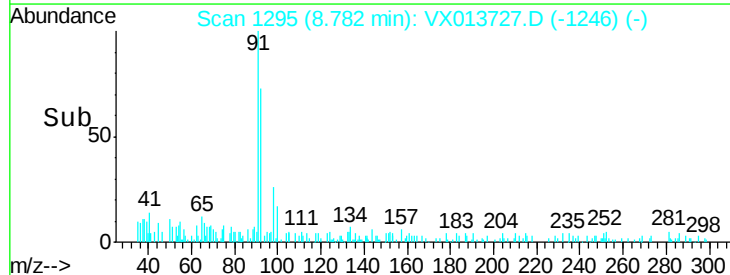
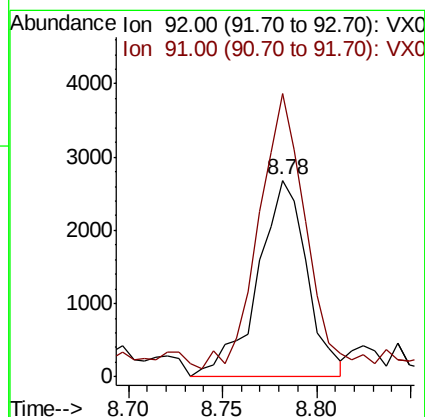
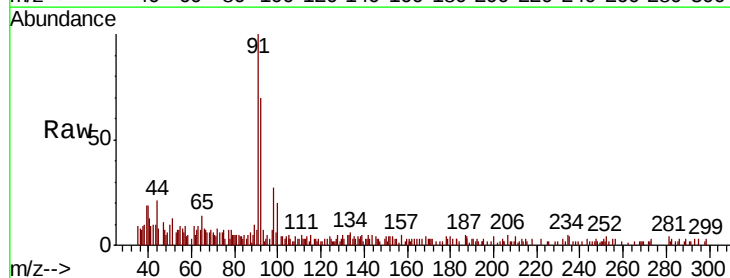
Acq: 03 Dec 2019 16:11

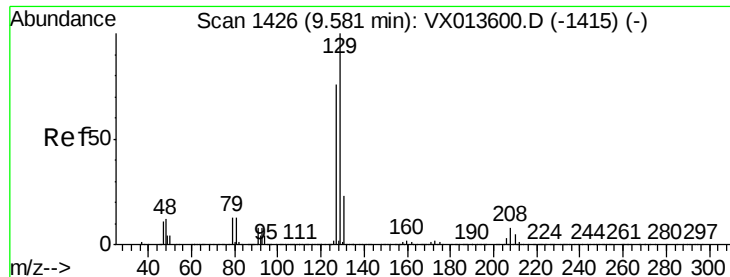
Tgt Ion: 92 Resp: 4879

Ion Ratio Lower Upper

92 100

91 129.7 136.2 204.2#





#60

Dibromochloromethane

Concen: 29.243 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

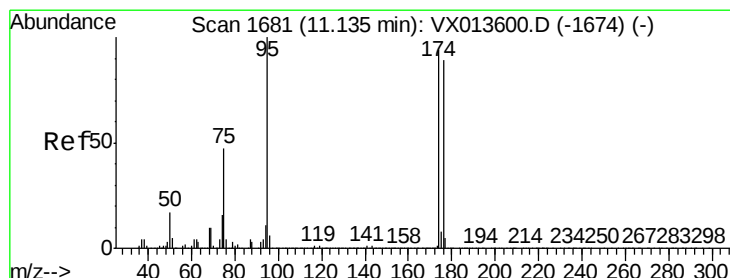
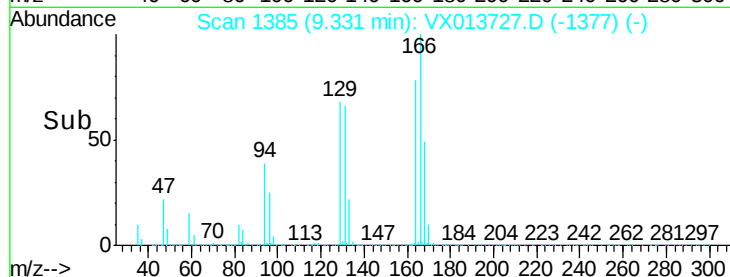
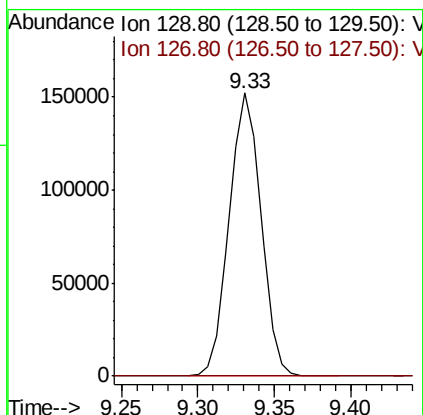
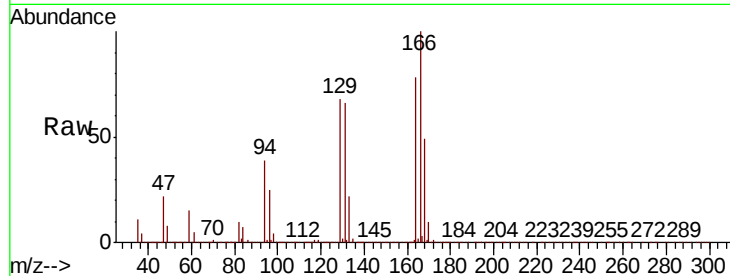
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 219383

Ion Ratio Lower Upper

129 100

127 0.1 38.5 115.5#



#62

4-Bromofluorobenzene

Concen: 46.571 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

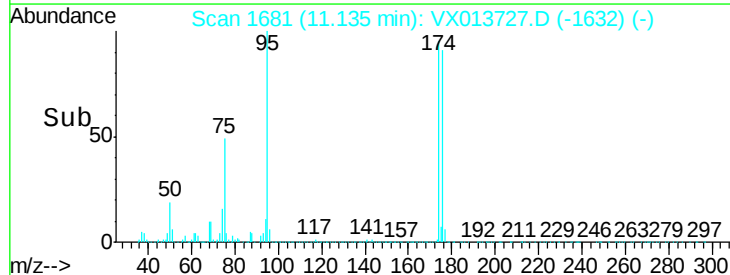
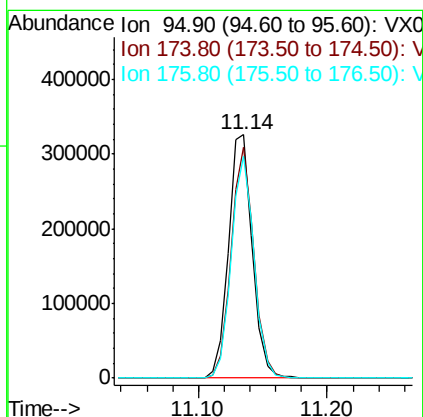
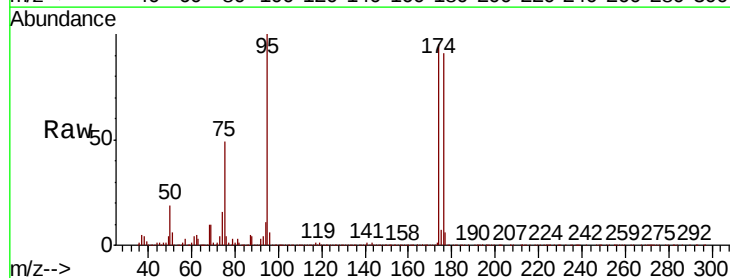
Tgt Ion: 95 Resp: 422469

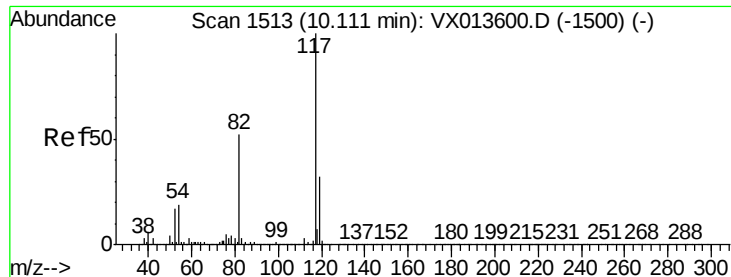
Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.0

176 87.2 0.0 173.6

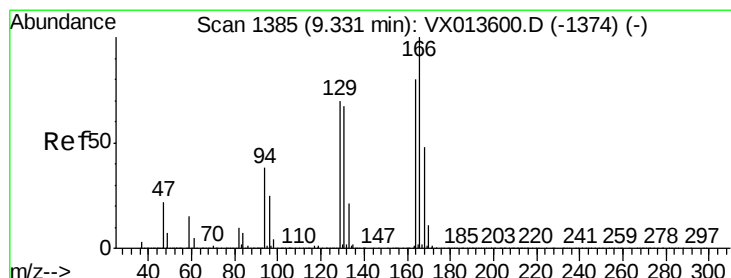
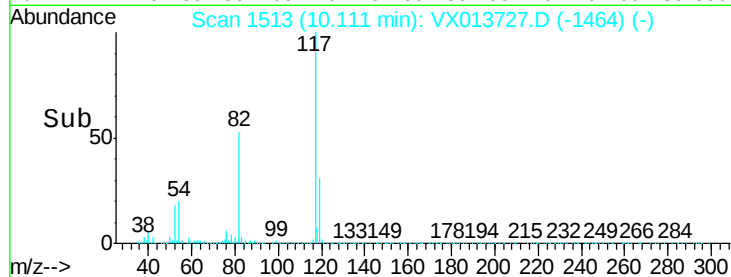
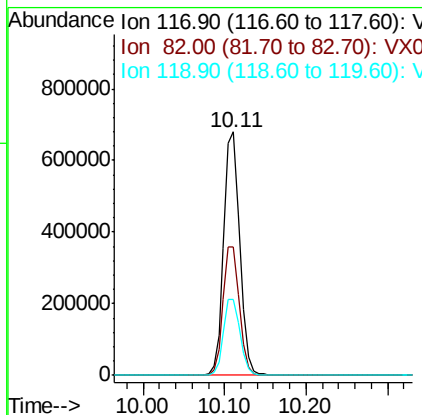
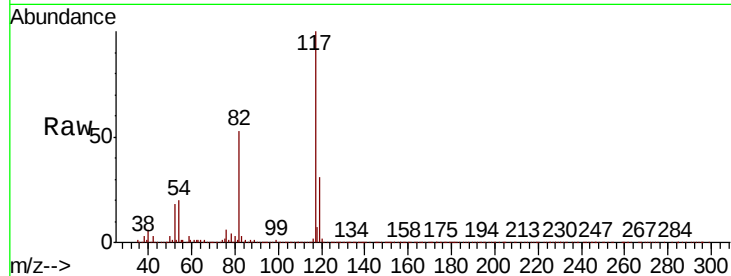




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

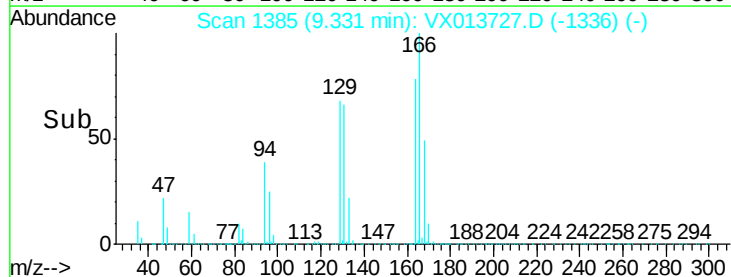
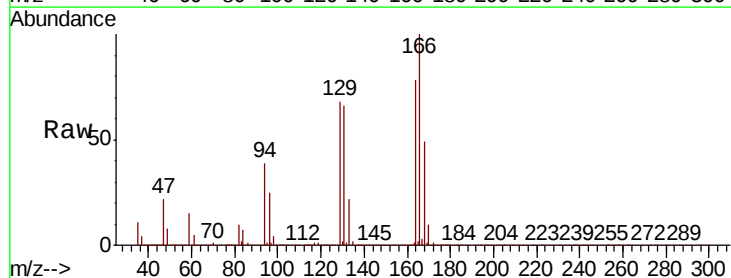
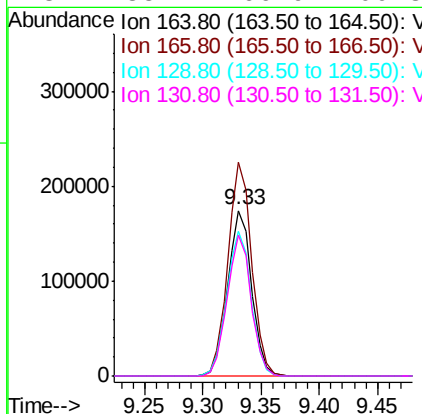
Instrument :
MSVOA_X
ClientSampleId :

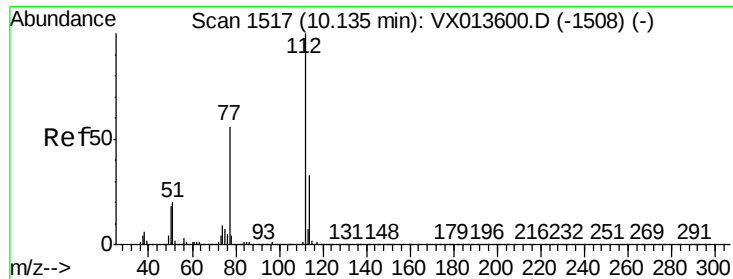
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.8	62.8
119	31.3	25.8	38.8



#64
Tetrachloroethene
Concen: 36.081 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	99.7	149.5
129	87.1	70.1	105.1
131	85.1	66.9	100.3

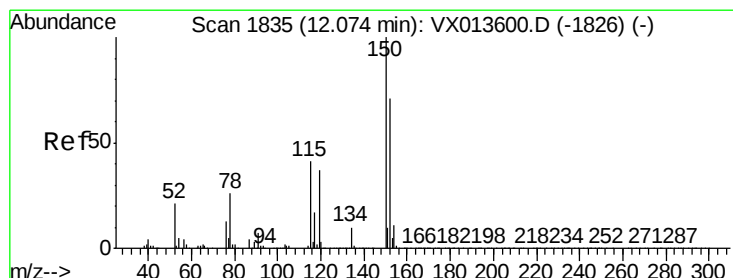
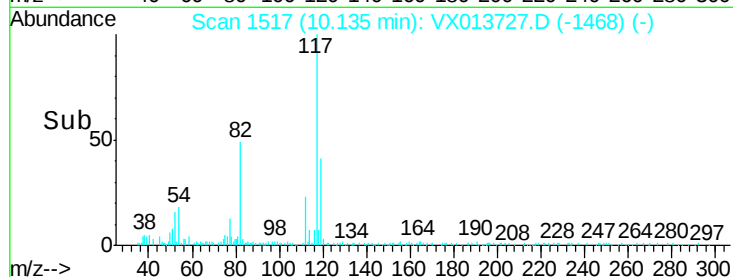
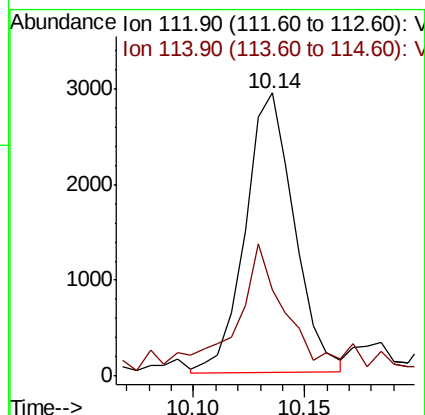
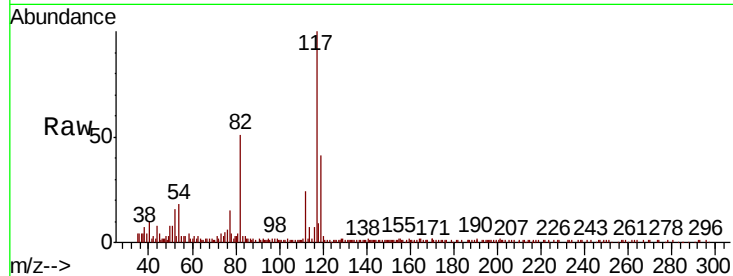




#65
Chlorobenzene
Concen: 0.233 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

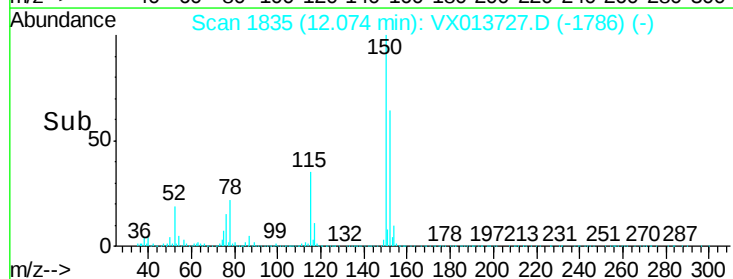
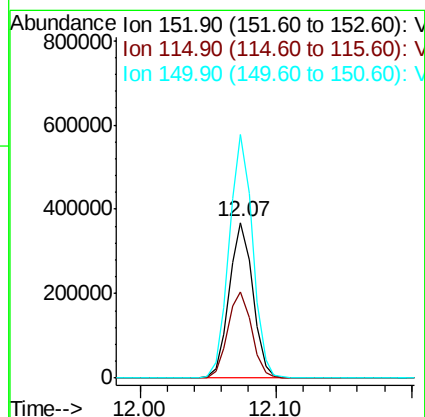
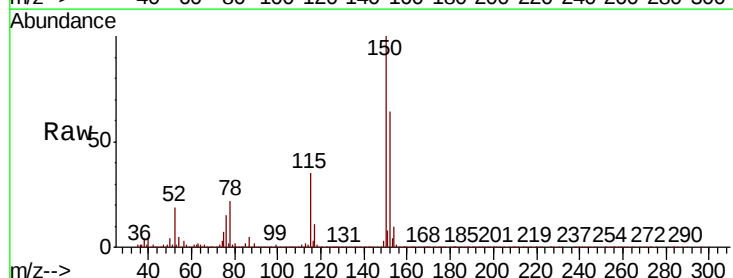
Instrument :
MSVOA_X
ClientSampleId :

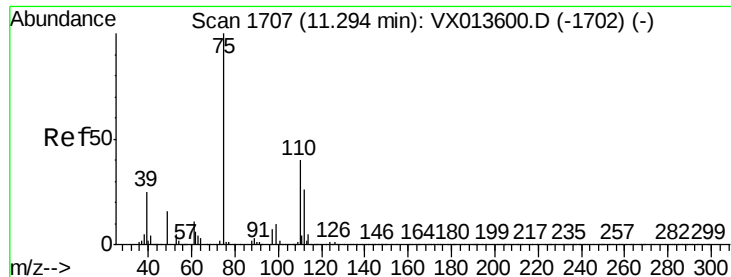
Tot Ion:112 Resp: 4476
Ion Ratio Lower Upper
112 100
114 24.8 26.1 39.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013727.D
Acq: 03 Dec 2019 16:11

Tgt Ion:152 Resp: 441954
Ion Ratio Lower Upper
152 100
115 56.1 38.4 115.1
150 156.2 0.0 346.8

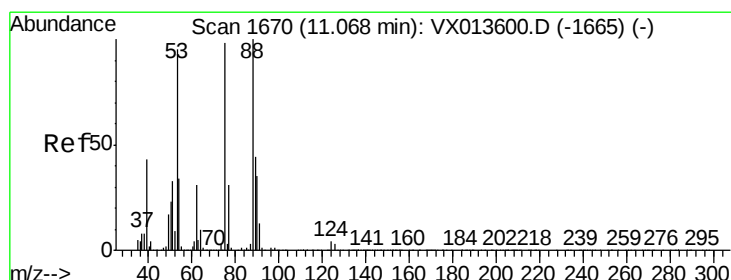
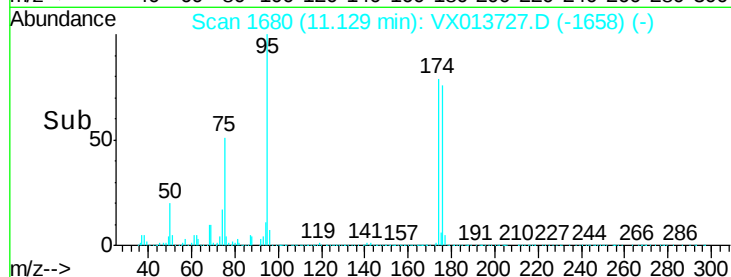
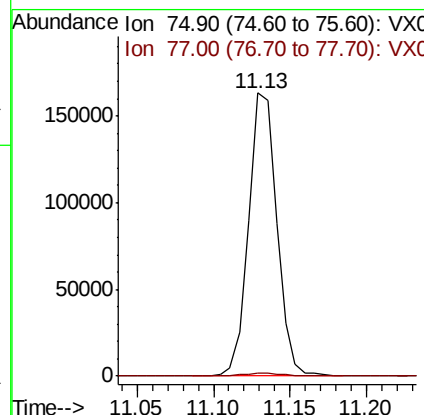
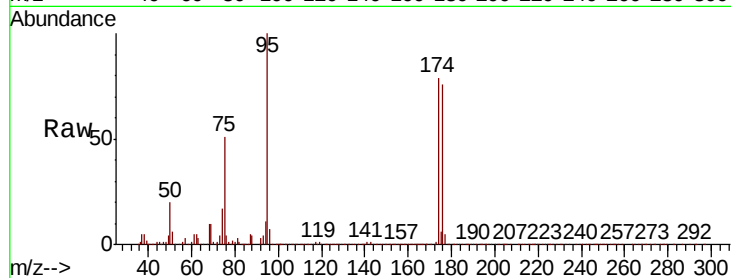




#76
 1,2,3-Trichloropropane
 Concen: 20.979 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

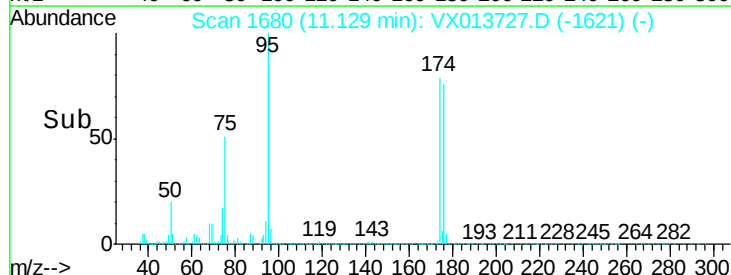
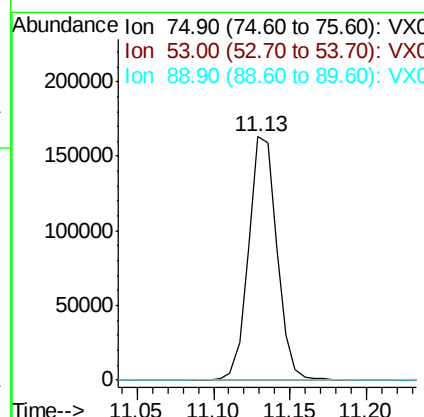
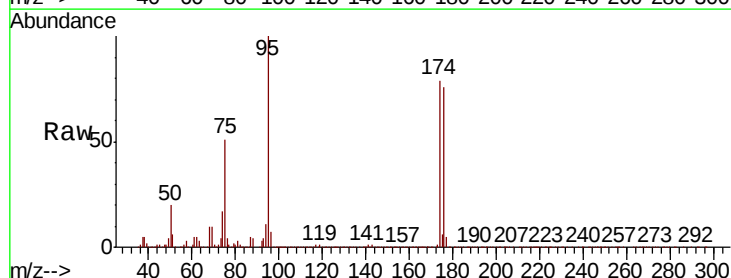
Instrument :
 MSVOA_X
 ClientSampleId :

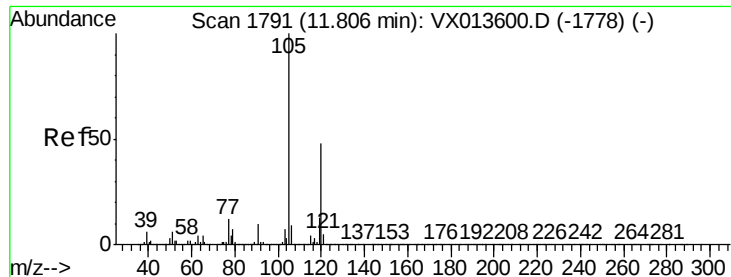
Tot Ion: 75 Resp: 208534
 Ion Ratio Lower Upper
 75 100
 77 1.3 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.394 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX013727.D
 Acq: 03 Dec 2019 16:11

Tgt Ion: 75 Resp: 208534
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.2 117.2#
 89 0.1 35.4 53.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.966 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Instrument :

MSVOA_X

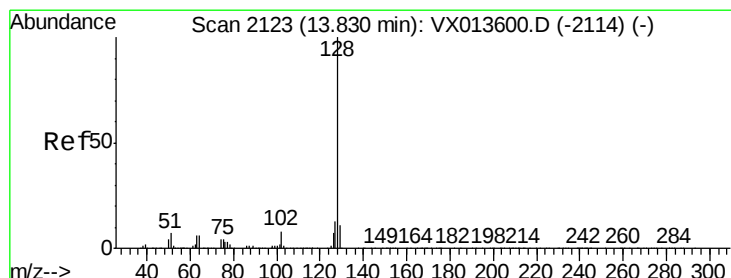
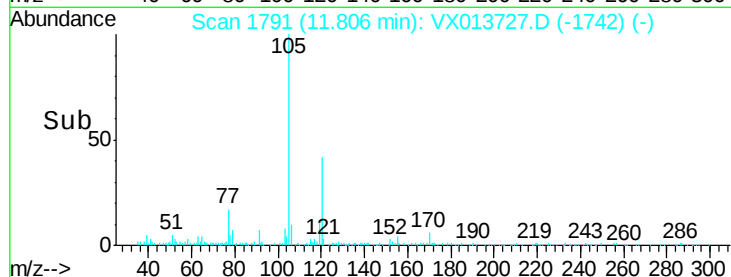
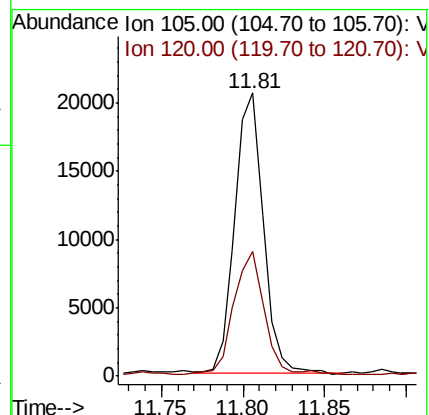
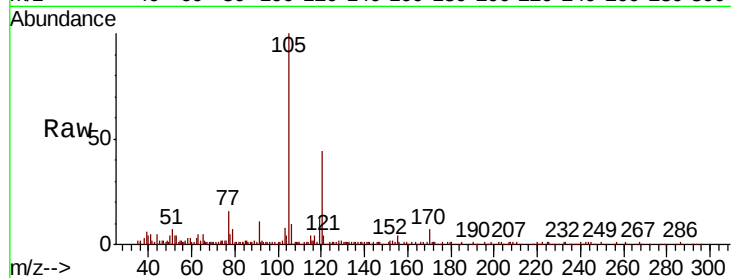
ClientSampleId :

Tot Ion:105 Resp: 24922

Ion Ratio Lower Upper

105 100

120 48.0 23.1 69.3



#95

Naphthalene

Concen: 9.091 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013727.D

Acq: 03 Dec 2019 16:11

Tgt Ion:128 Resp: 272172

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

129 11.0 8.7 13.1

