

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041720\
 Data File : VX015744.D
 Acq On : 17 Apr 2020 17:32
 Operator : JC/SP
 Sample : L2298-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 20 01:16:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	991420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1543180	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1471321	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	786009	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	597123	42.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.40%	
35) Dibromofluoromethane	5.47	113	464386	47.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.16%	
50) Toluene-d8	8.70	98	1819434	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
62) 4-Bromofluorobenzene	11.12	95	752664	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	

Target Compounds

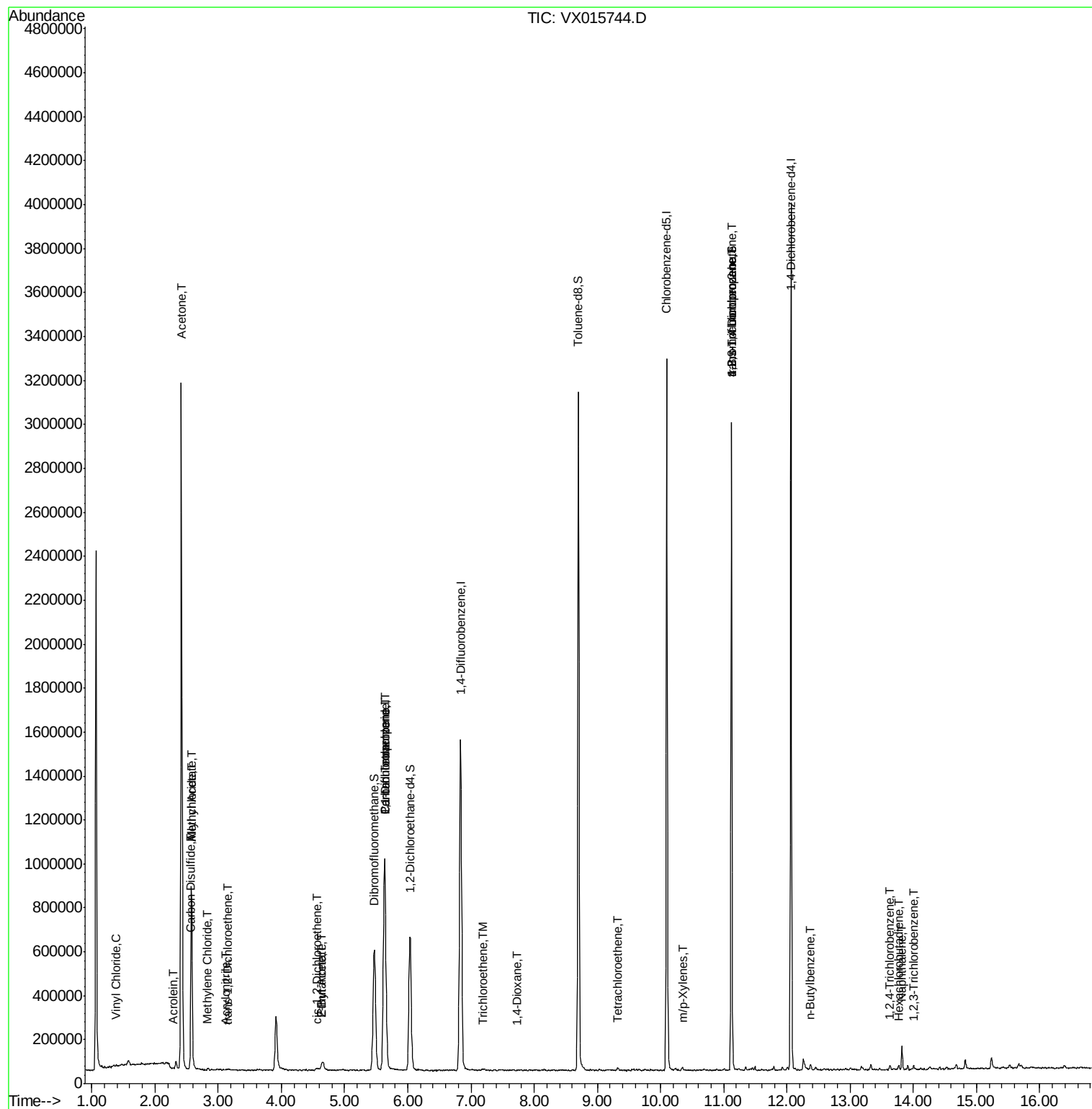
					Qvalue	
4) Vinyl Chloride	1.39	62	2998	0.294	ug/l #	64
5) Bromomethane	1.64	94	1230	Below Cal	#	57
13) Acrolein	2.28	56	3022	1.585	ug/l #	72
14) Allyl chloride	2.58	41	79163	3.620	ug/l #	69
15) Acrylonitrile	3.12	53	2059	0.323	ug/l #	64
16) Acetone	2.42	43	3235946	538.662	ug/l	97
17) Carbon Disulfide	2.56	76	7427	0.260	ug/l	95
18) Methyl Acetate	2.58	43	195924	12.778	ug/l #	56
20) Methylene Chloride	2.83	84	3928	0.350	ug/l #	57
21) trans-1,2-Dichloroethene	3.14	96	2114	0.204	ug/l #	57
25) 2-Butanone	4.65	43	39434	4.082	ug/l	94
27) cis-1,2-Dichloroethene	4.57	96	7782	0.648	ug/l	66
36) 1,1-Dichloropropene	5.64	75	68645	4.828	ug/l #	53
37) Ethyl Acetate	4.65	43	39434	2.130	ug/l #	72
38) Carbon Tetrachloride	5.63	117	89984	5.843	ug/l #	15
44) Trichloroethene	7.19	130	3194	0.281	ug/l	80
49) 1,4-Dioxane	7.73	88	816	2.802	ug/l #	75
64) Tetrachloroethene	9.32	164	3506	0.316	ug/l #	70
68) m/p-Xylenes	10.34	106	4071	0.210	ug/l	86
76) 1,2,3-Trichloropropane	11.12	75	386325	23.901	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	386325	57.349	ug/l #	10
89) n-Butylbenzene	12.37	91	9242	0.222	ug/l	84
93) 1,2,4-Trichlorobenzene	13.63	180	6122	0.322	ug/l	98
94) Hexachlorobutadiene	13.77	225	3917	0.432	ug/l	88
95) Naphthalene	13.82	128	68217	1.175	ug/l	98
96) 1,2,3-Trichlorobenzene	14.01	180	4848	0.265	ug/l	92

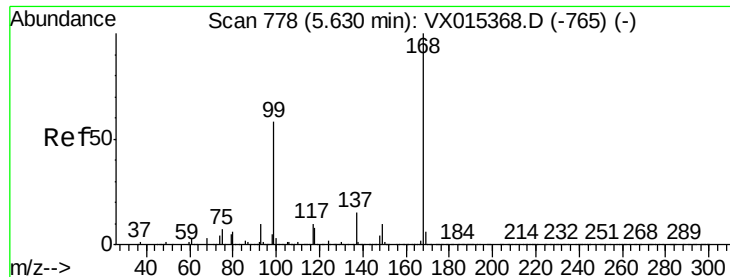
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :

MSVOA_X

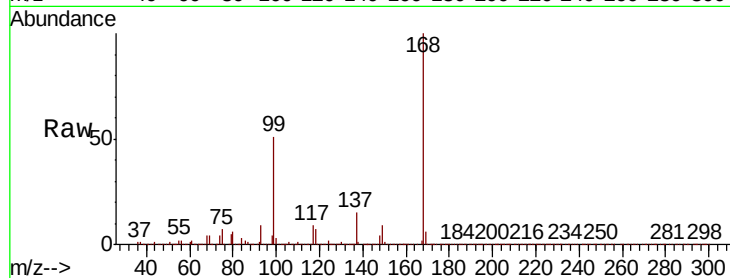
ClientSampleId :

Tot Ion:168 Resp: 991420

Ion Ratio Lower Upper

168 100

99 51.1 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

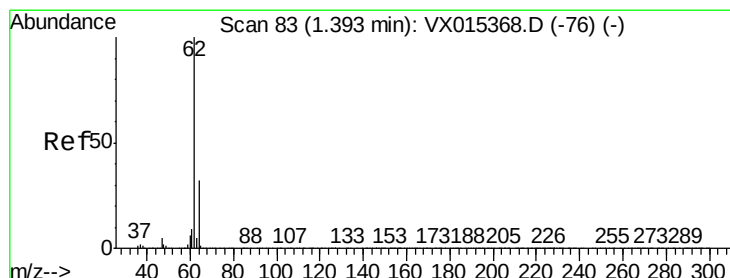
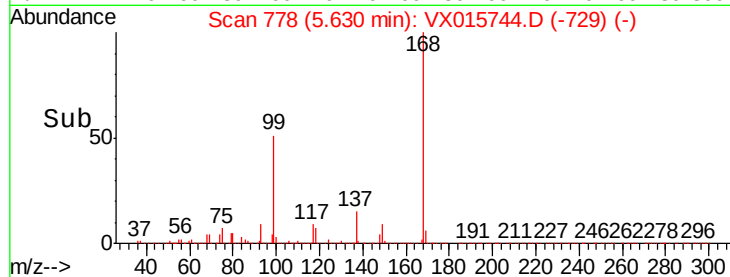
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 0.294 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX015744.D

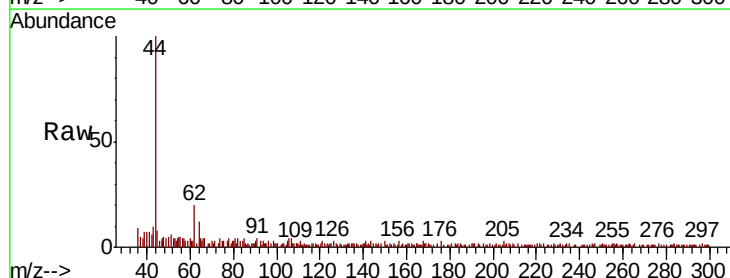
Acq: 17 Apr 2020 17:32

Tgt Ion: 62 Resp: 2998

Ion Ratio Lower Upper

62 100

64 53.0 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

2500

2000

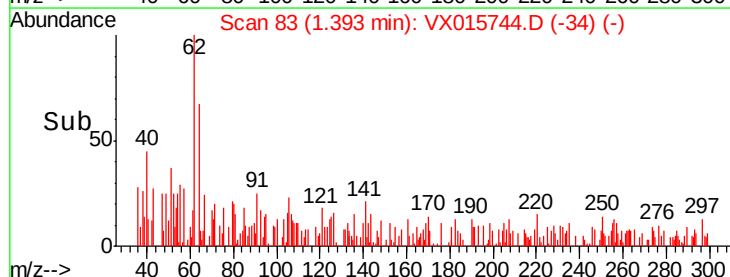
1500

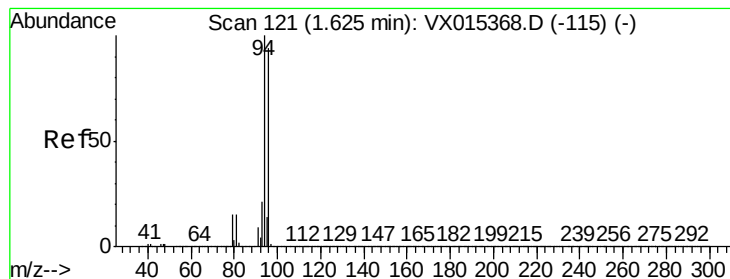
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :

MSVOA_X

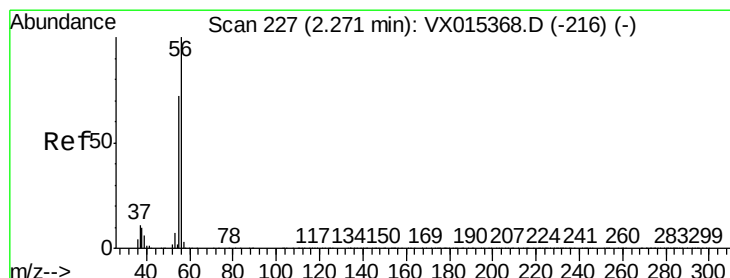
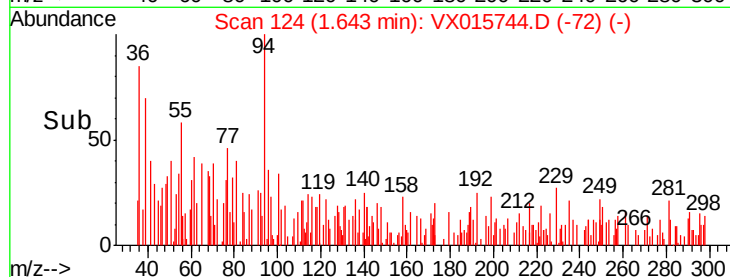
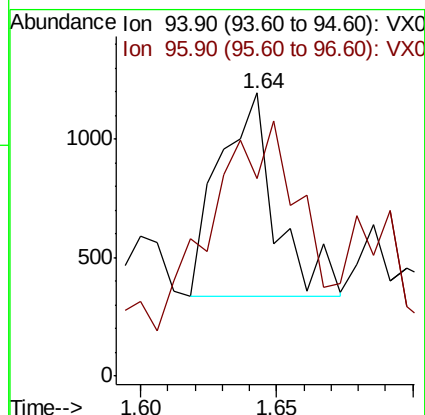
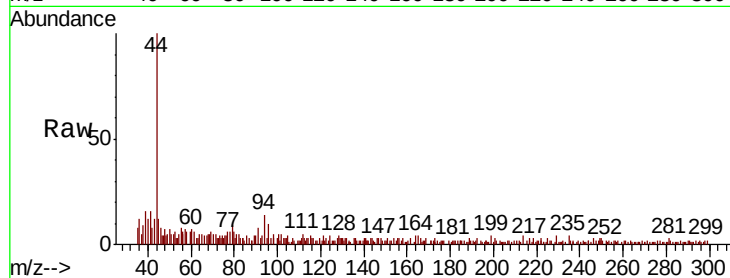
ClientSampled :

Tot Ion: 94 Resp: 1230

Ion Ratio Lower Upper

94 100

96 51.9 74.8 112.2#



#13

Acrolein

Concen: 1.585 ug/l

RT: 2.28 min Scan# 228

Delta R.T. 0.01 min

Lab File: VX015744.D

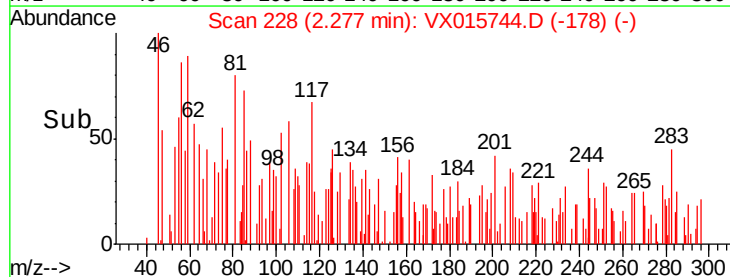
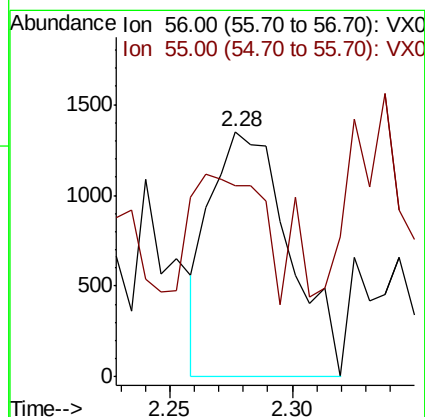
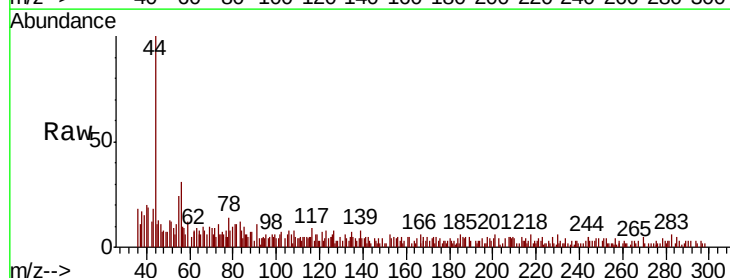
Acq: 17 Apr 2020 17:32

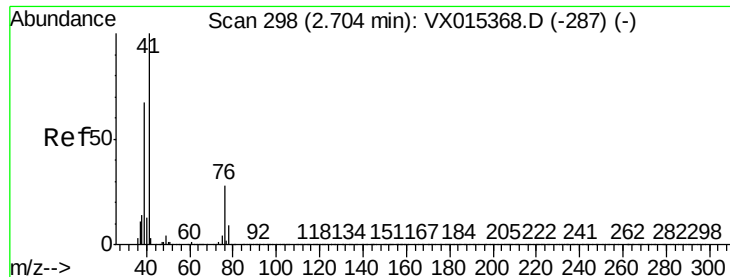
Tgt Ion: 56 Resp: 3022

Ion Ratio Lower Upper

56 100

55 48.1 57.0 85.4#

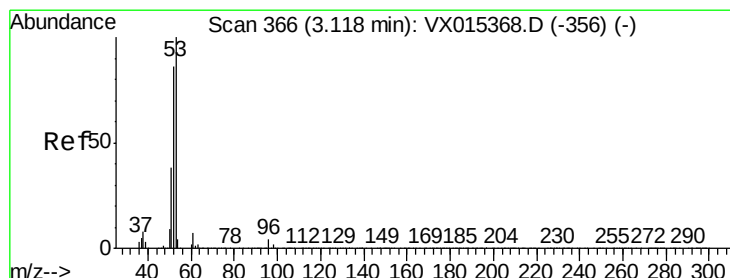
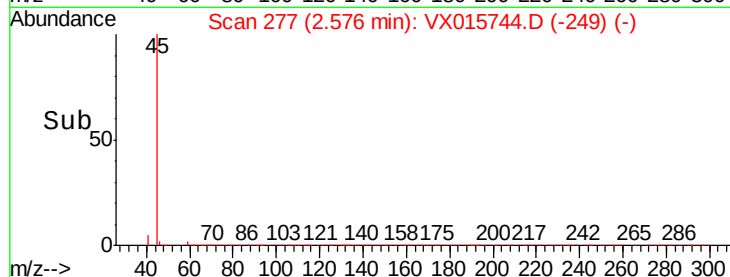
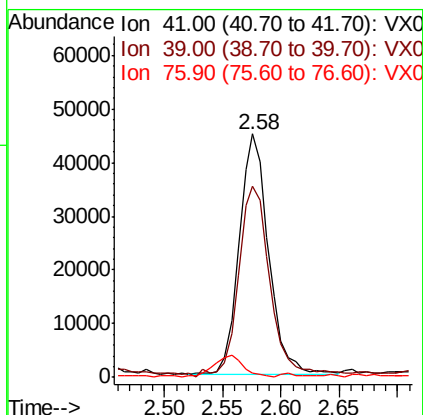
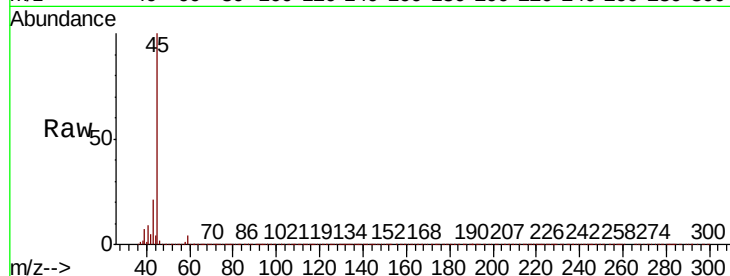




#14
Allvl chloride
Concen: 3.620 ug/l
RT: 2.58 min Scan# 277
Delta R.T. -0.13 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

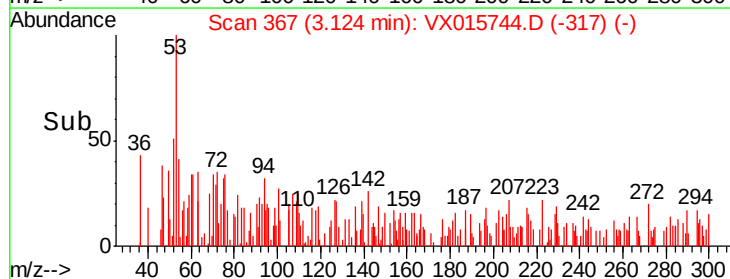
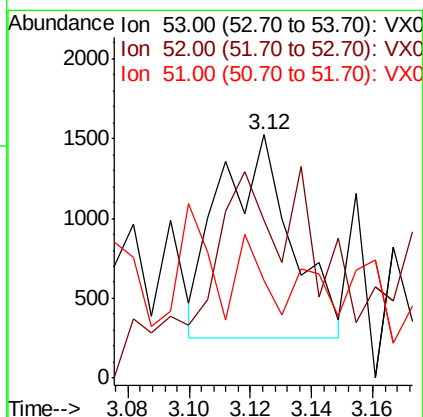
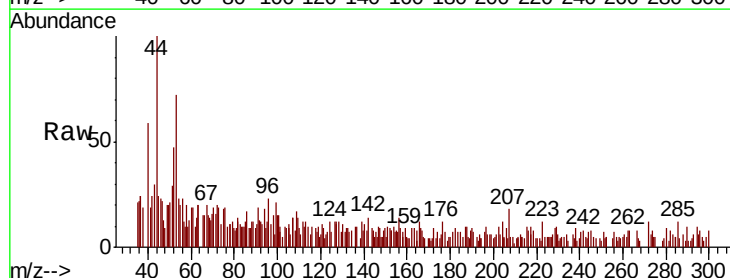
Instrument :
MSVOA_X
ClientSampled :

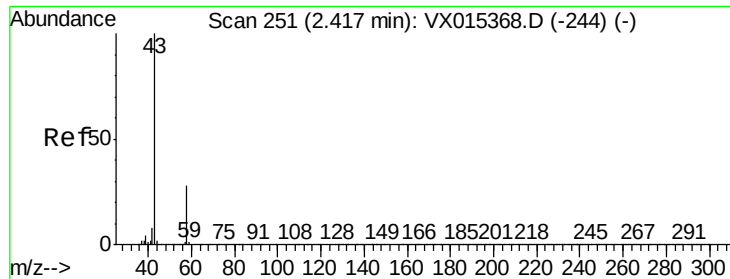
Tot Ion: 41 Resp: 79163
Ion Ratio Lower Upper
41 100
39 86.8 51.4 77.0#
76 9.4 21.8 32.8#



#15
Acrylonitrile
Concen: 0.323 ug/l
RT: 3.12 min Scan# 367
Delta R.T. 0.01 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Tgt Ion: 53 Resp: 2059
Ion Ratio Lower Upper
53 100
52 105.2 66.8 100.2#
51 0.0 29.5 44.3#

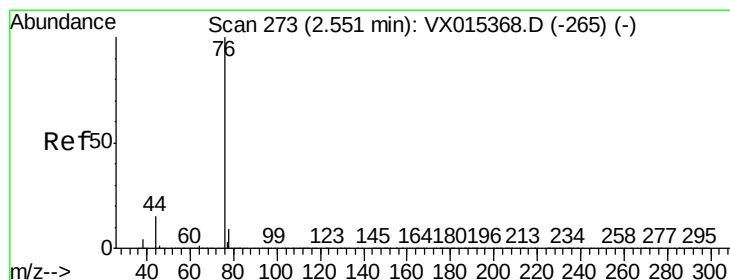
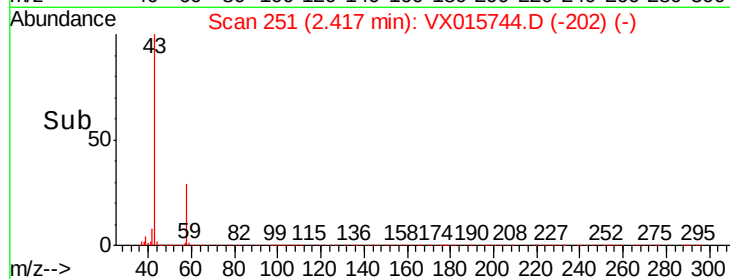
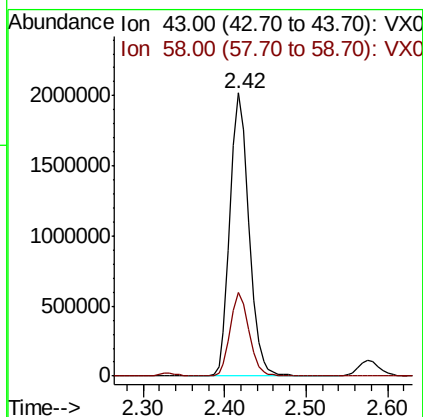
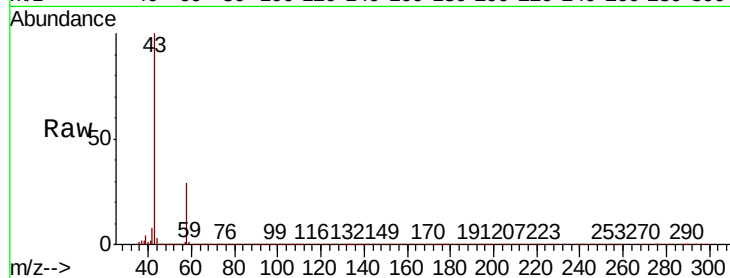




#16
Acetone
Concen: 538.662 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

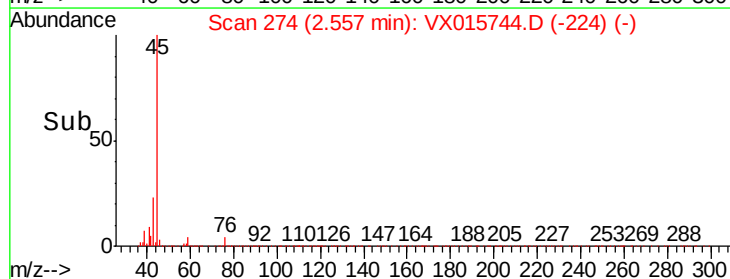
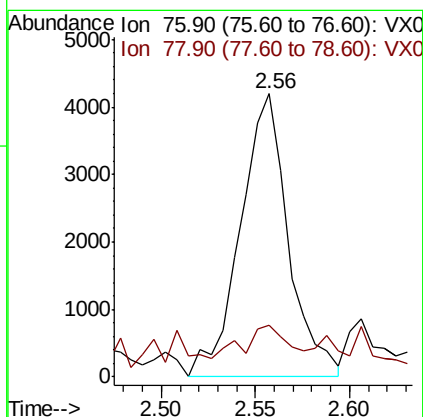
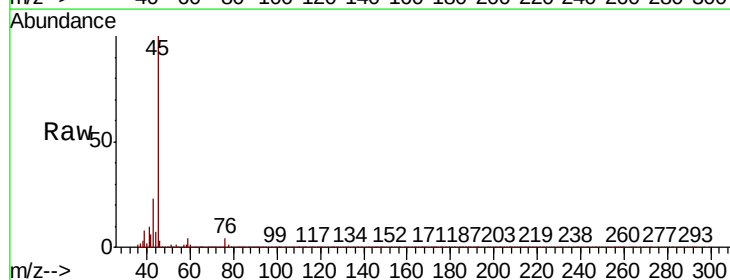
Instrument :
MSVOA_X
ClientSampleId :

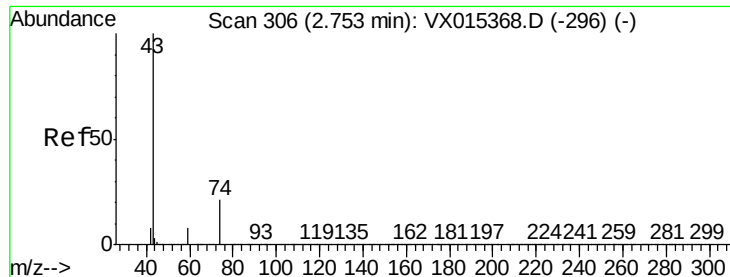
Tot Ion: 43 Resp: 3235946
Ion Ratio Lower Upper
43 100
58 29.3 22.1 33.1



#17
Carbon Disulfide
Concen: 0.260 ug/l
RT: 2.56 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Tgt Ion: 76 Resp: 7427
Ion Ratio Lower Upper
76 100
78 10.6 7.1 10.7

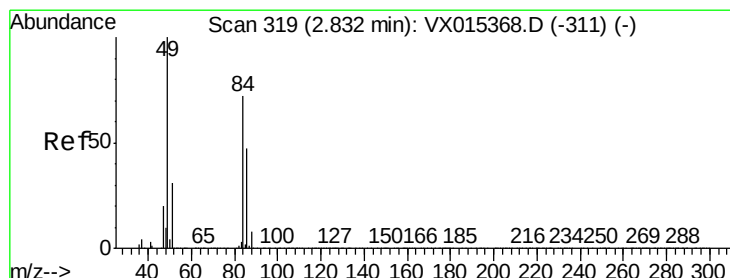
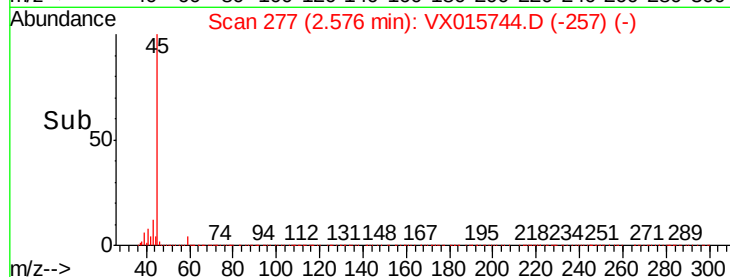
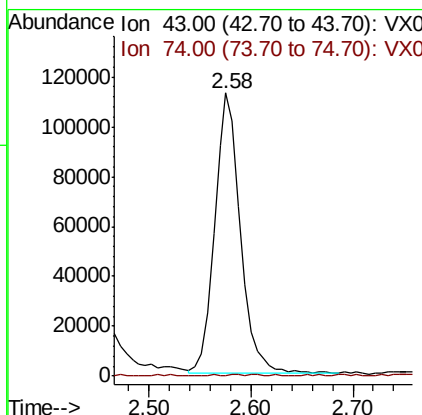
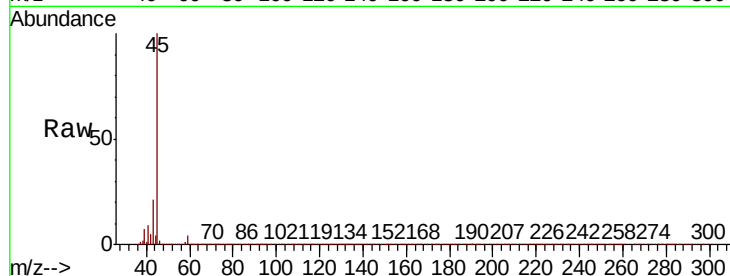




#18
Methyl Acetate
Concen: 12.778 ug/l
RT: 2.58 min Scan# 277
Delta R.T. -0.18 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

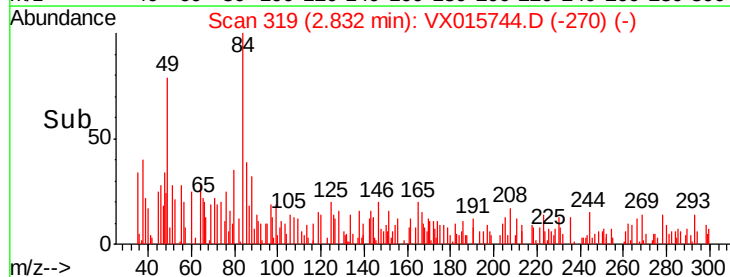
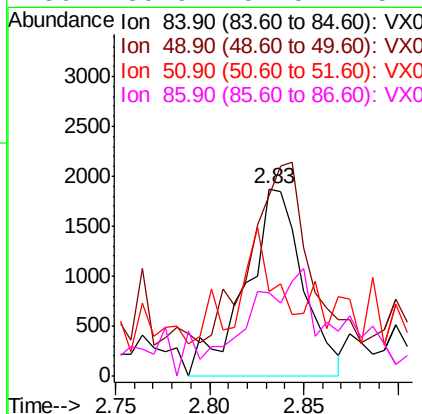
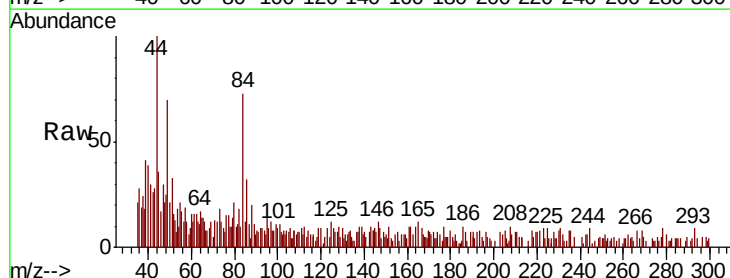
Instrument :
MSVOA_X
ClientSampleId :

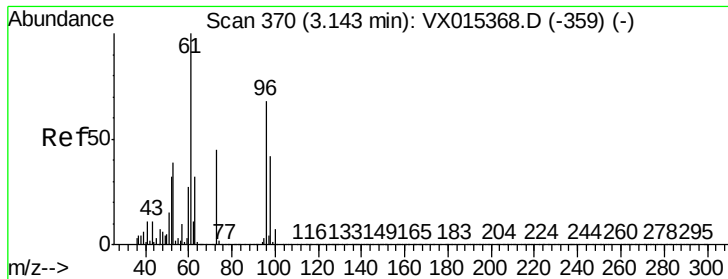
Tot Ion: 43 Resp: 195924
Ion Ratio Lower Upper
43 100
74 0.2 16.5 24.7#



#20
Methylene Chloride
Concen: 0.350 ug/l
RT: 2.83 min Scan# 319
Delta R.T. -0.00 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Tgt Ion: 84 Resp: 3928
Ion Ratio Lower Upper
84 100
49 82.9 111.3 166.9#
51 10.1 34.0 51.0#
86 39.9 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 0.204 ug/l

RT: 3.14 min Scan# 370

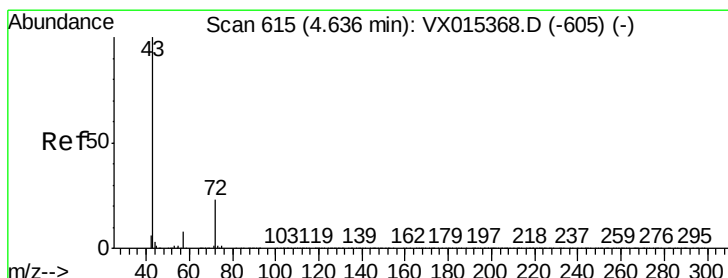
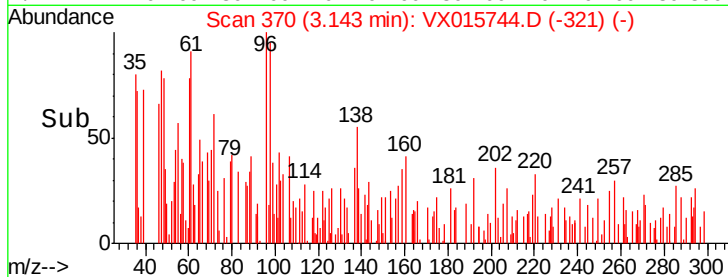
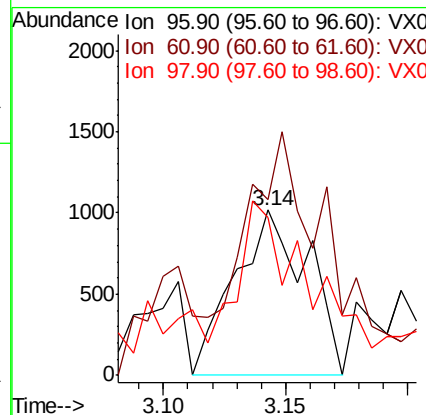
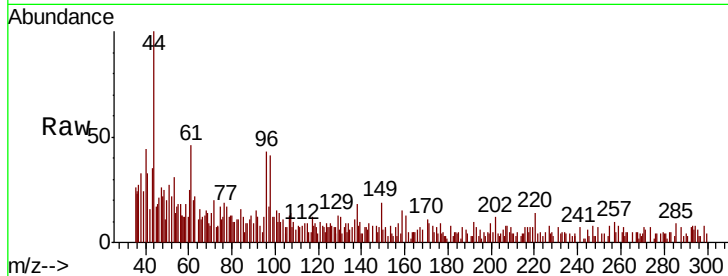
Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	96	Resp:	2114
Ion	Ratio	Lower	Upper
96	100		
61	70.7	116.9	175.3#
98	59.7	48.6	73.0



#25

2-Butanone

Concen: 4.082 ug/l

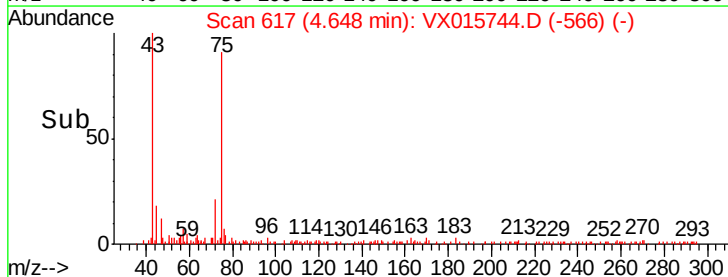
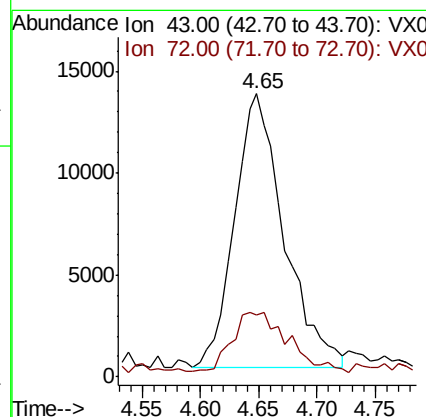
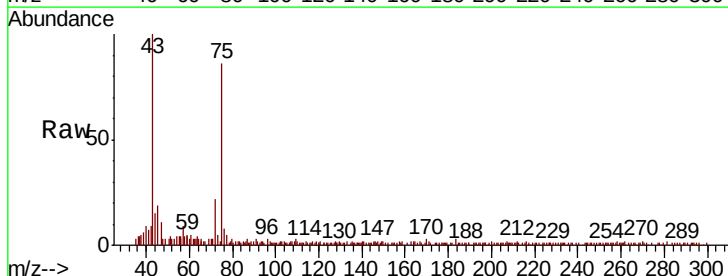
RT: 4.65 min Scan# 617

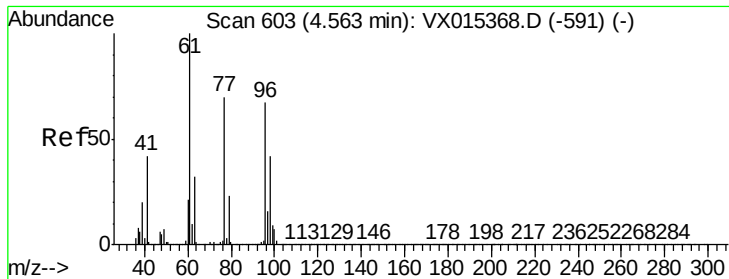
Delta R.T. 0.01 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Tgt Ion:	43	Resp:	39434
Ion	Ratio	Lower	Upper
43	100		
72	20.9	19.0	28.4



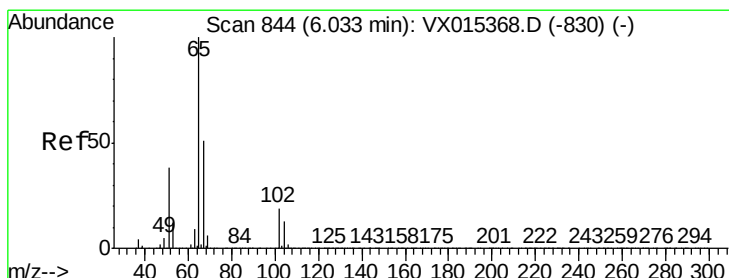
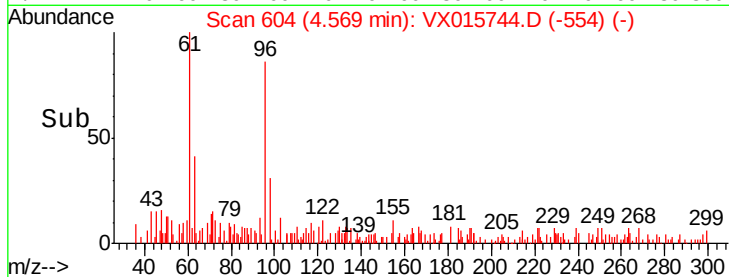
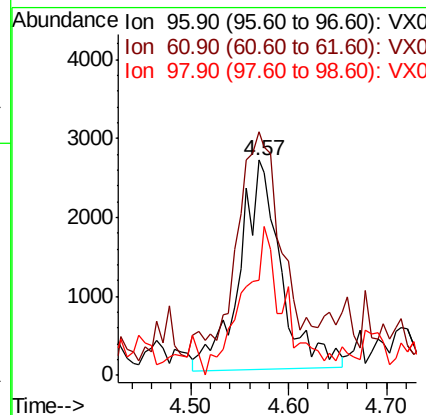
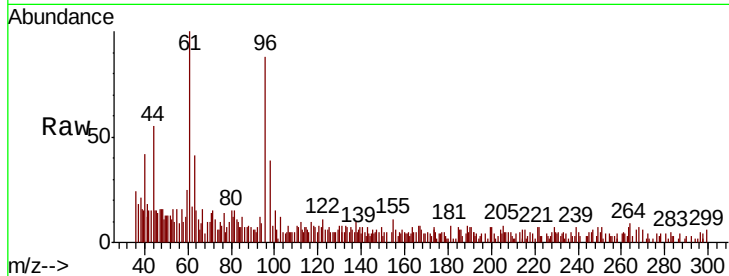


#27

cis-1,2-Dichloroethene
Concen: 0.648 ug/l
RT: 4.57 min Scan# 604
Delta R.T. 0.01 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Instrument :
MSVOA_X
ClientSampled :

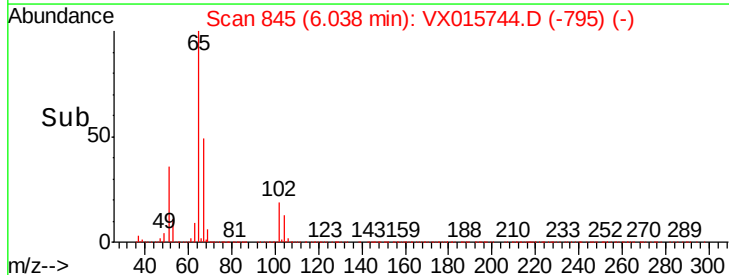
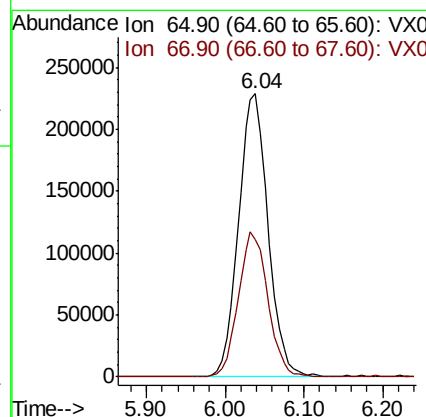
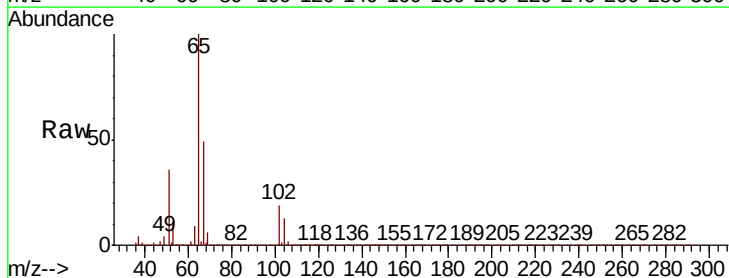
Tot Ion: 96 Resp: 7782
Ion Ratio Lower Upper
96 100
61 94.6 0.0 308.4
98 69.7 0.0 129.2

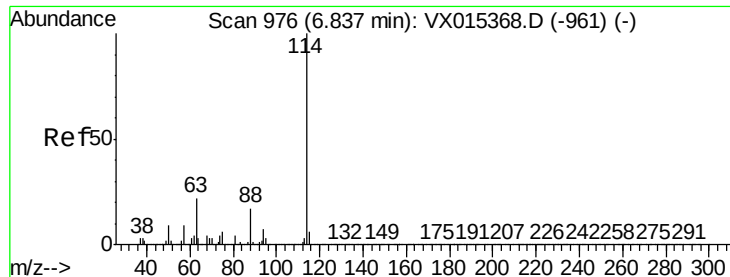


#33

1,2-Dichloroethane-d4
Concen: 42.704 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Tgt Ion: 65 Resp: 597123
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6

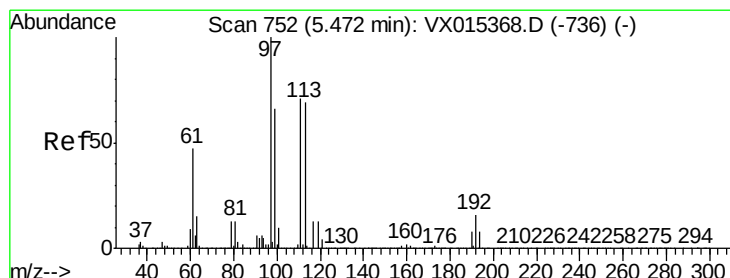
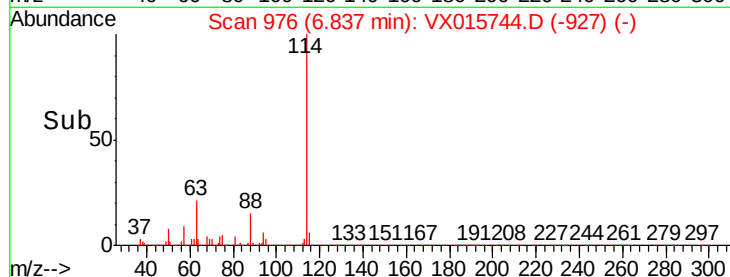
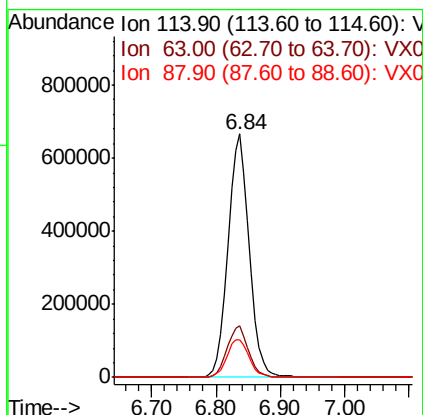
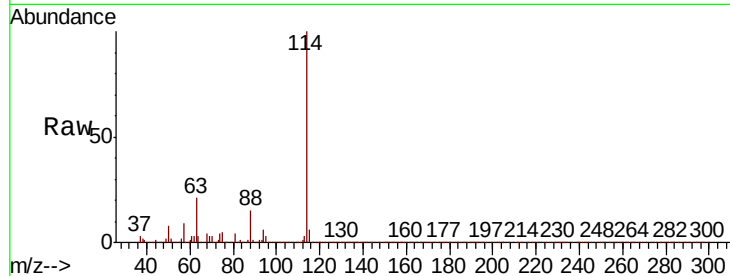




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. -0.00 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

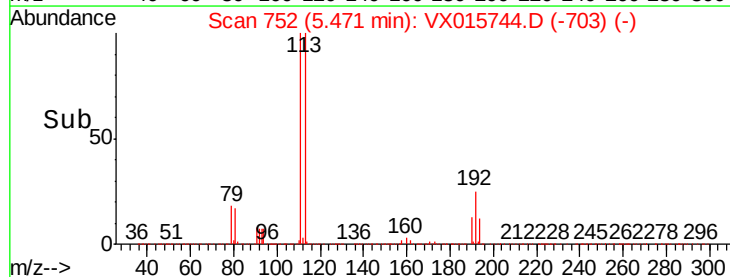
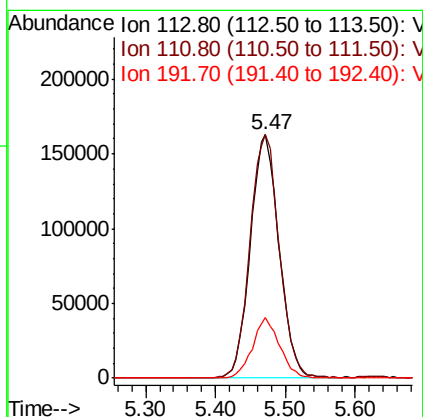
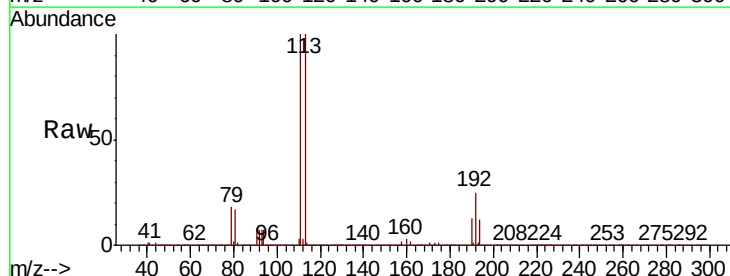
Instrument :
 MSVOA_X
 ClientSampleId :

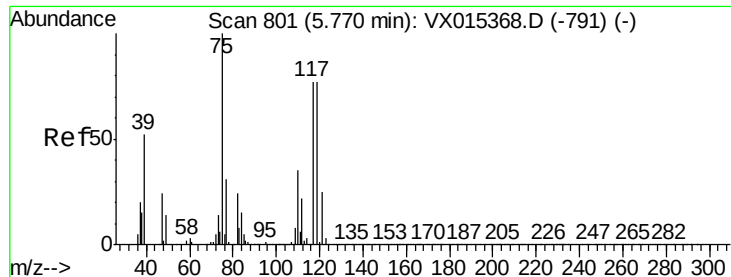
Tot Ion:114 Resp: 1543180
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 44.2
 88 15.4 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 47.077 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

Tgt Ion:113 Resp: 464386
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.5 122.3
 192 23.2 17.8 26.6

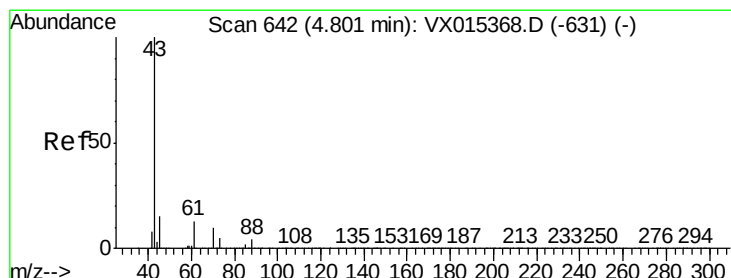
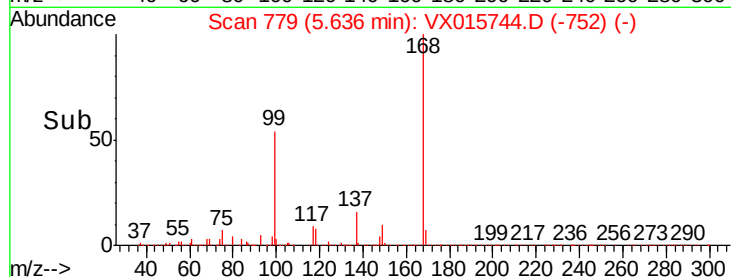
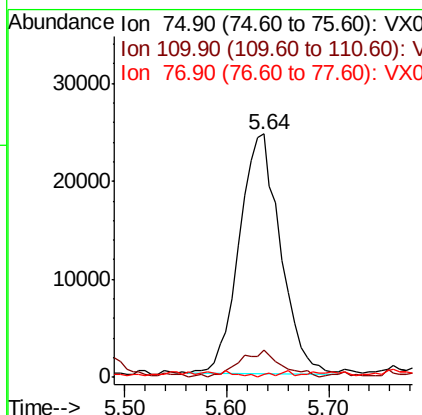
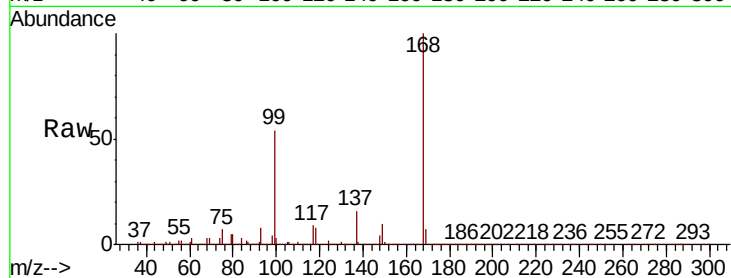




#36
 1,1-Dichloropropene
 Concen: 4.828 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

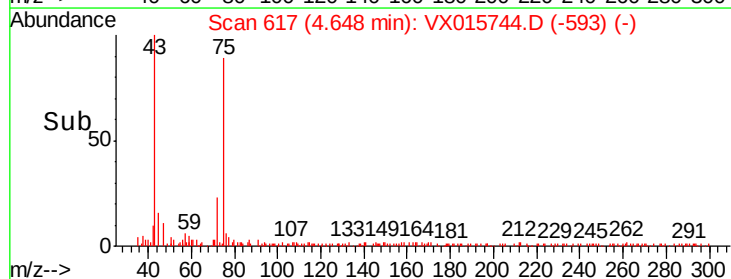
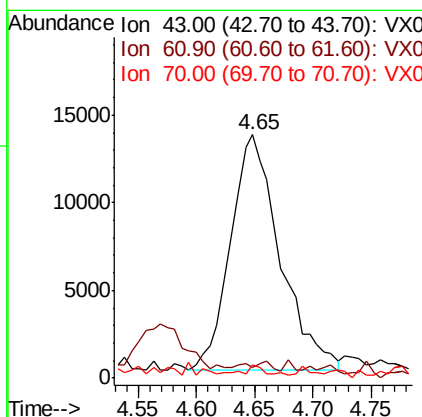
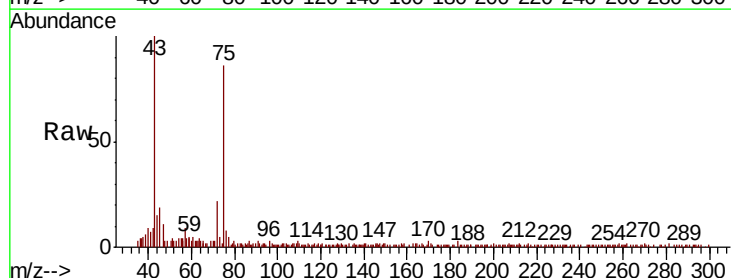
Instrument :
 MSVOA_X
 ClientSampleId :

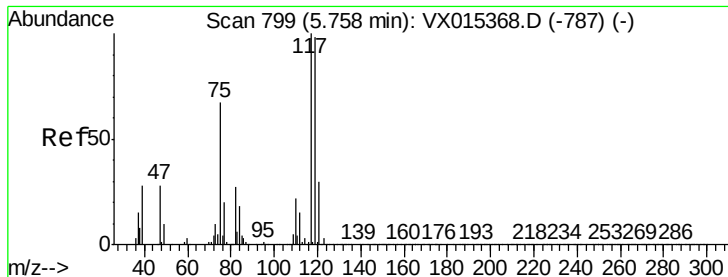
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.5	17.1	51.3#
77	0.5	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 2.130 ug/l
 RT: 4.65 min Scan# 617
 Delta R.T. -0.15 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.9	14.9#
70	1.7	8.1	12.1#

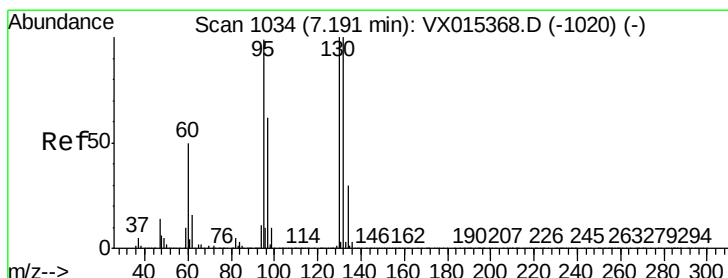
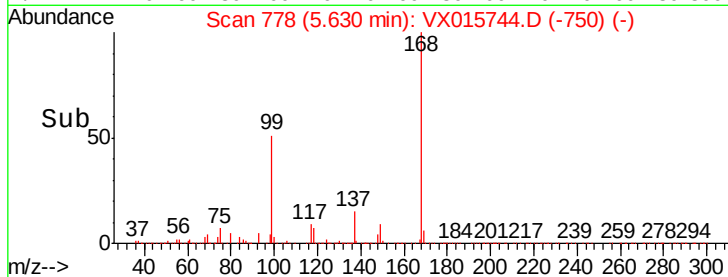
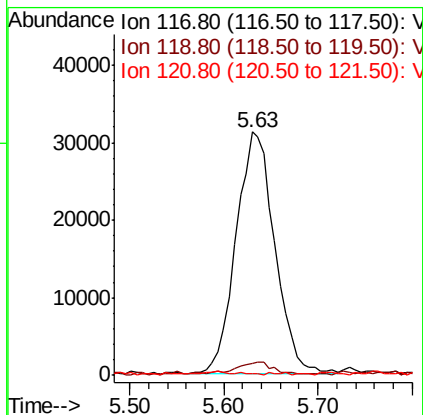
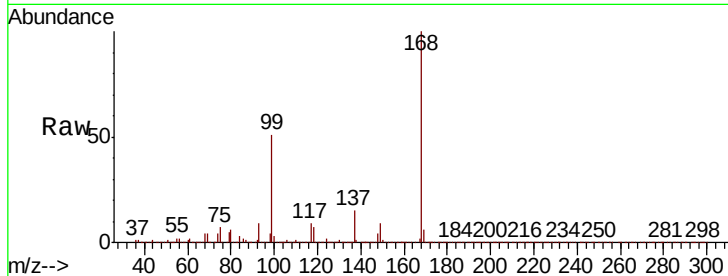




#38
Carbon Tetrachloride
Concen: 5.843 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.13 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

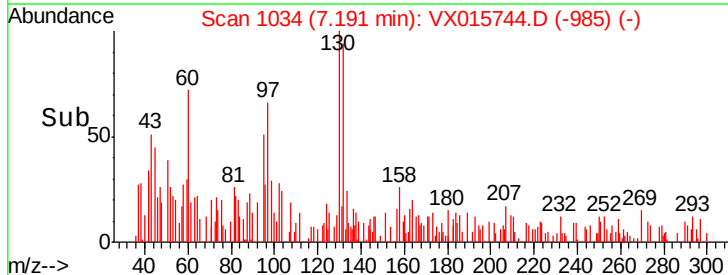
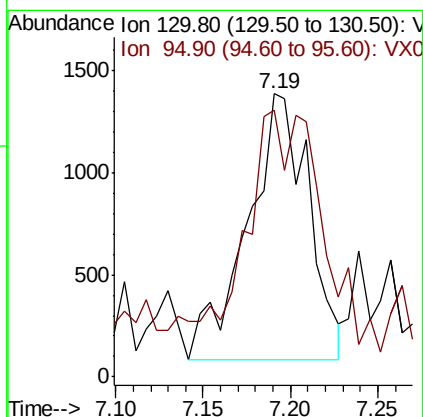
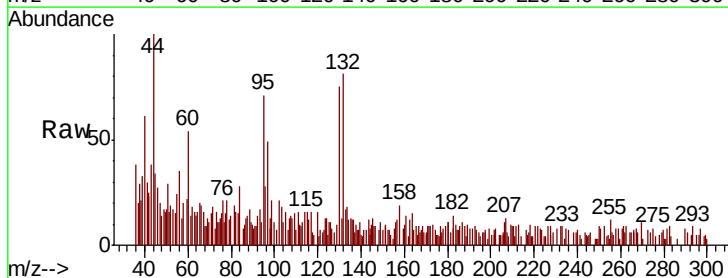
Instrument :
MSVOA_X
ClientSampleId :

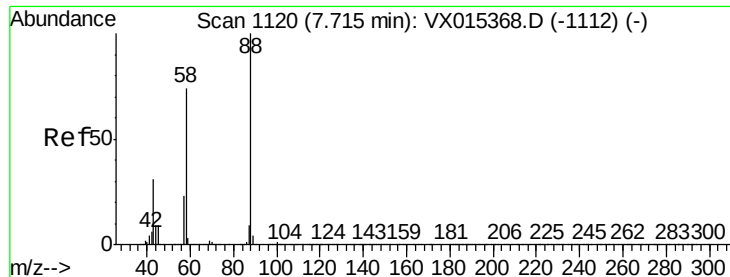
Tot Ion:117 Resp: 89984
Ion Ratio Lower Upper
117 100
119 4.4 78.0 117.0#
121 0.2 23.8 35.8#



#44
Trichloroethene
Concen: 0.281 ug/l
RT: 7.19 min Scan# 1034
Delta R.T. -0.00 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Tgt Ion:130 Resp: 3194
Ion Ratio Lower Upper
130 100
95 79.4 0.0 199.0





#49

1,4-Dioxane

Concen: 2.802 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

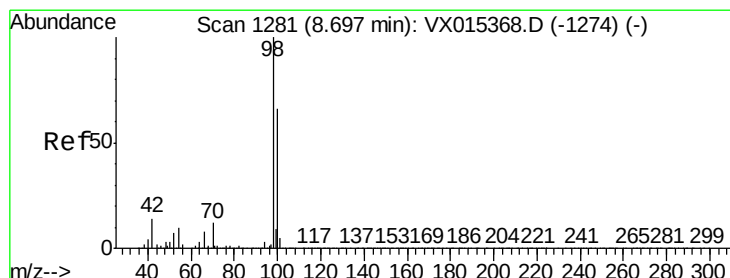
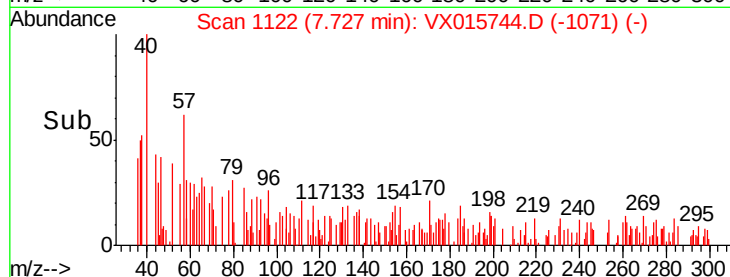
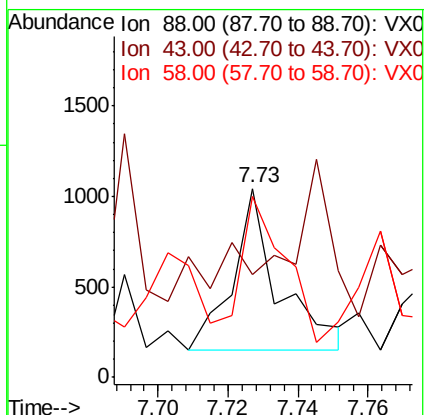
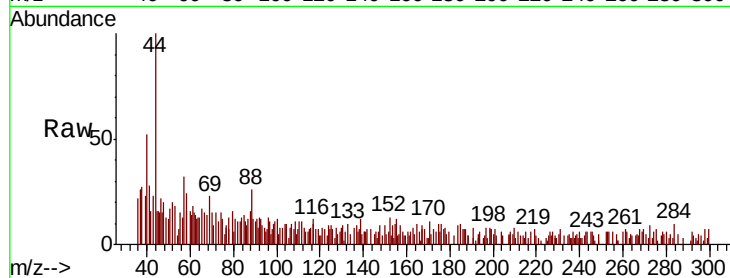
Tot Ion: 88 Resp: 816

Ion Ratio Lower Upper

88 100

43 68.4 30.1 45.1#

58 86.0 60.6 90.8



#50

Toluene-d8

Concen: 50.097 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015744.D

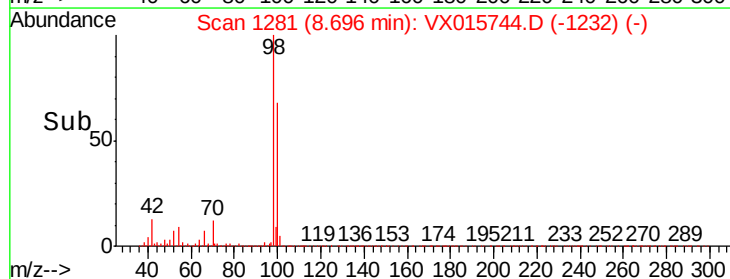
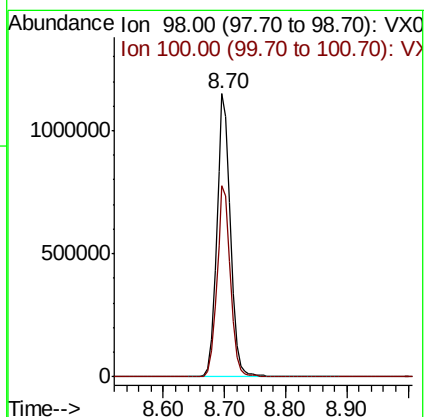
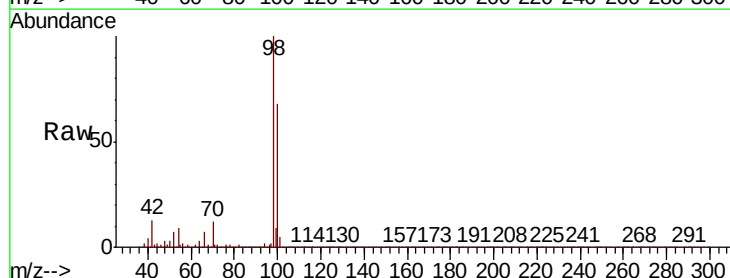
Acq: 17 Apr 2020 17:32

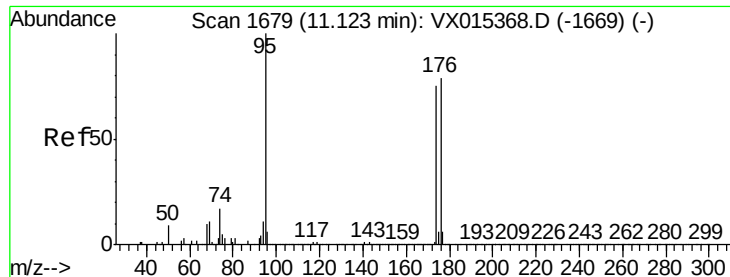
Tgt Ion: 98 Resp: 1819434

Ion Ratio Lower Upper

98 100

100 66.9 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 50.994 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

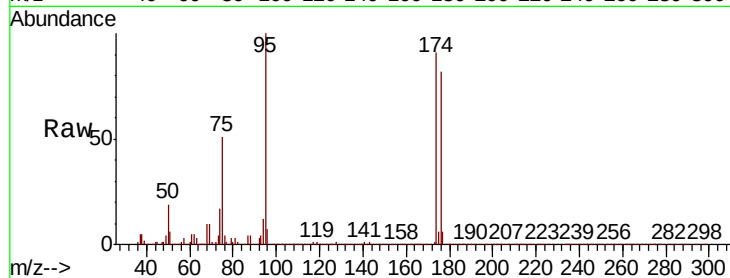
Tot Ion: 95 Resp: 752664

Ion Ratio Lower Upper

95 100

174 87.2 0.0 158.6

176 82.3 0.0 159.0

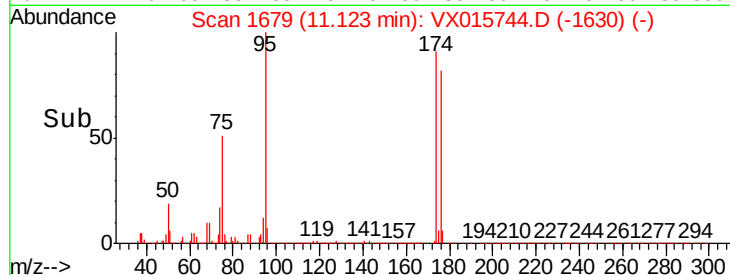


Abundance Ion 94.90 (94.60 to 95.60): VX015368.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015368.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015368.D (-1669) (-)

Time-->

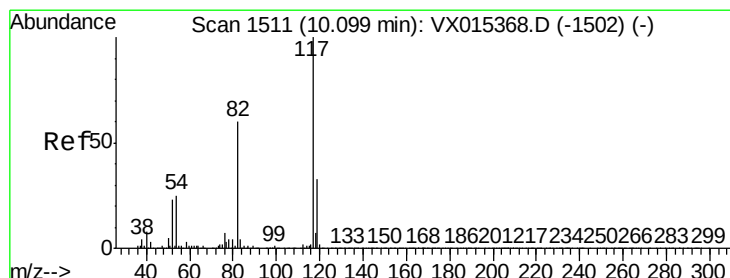


Abundance Ion 94.90 (94.60 to 95.60): VX015744.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX015744.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015744.D (-1630) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

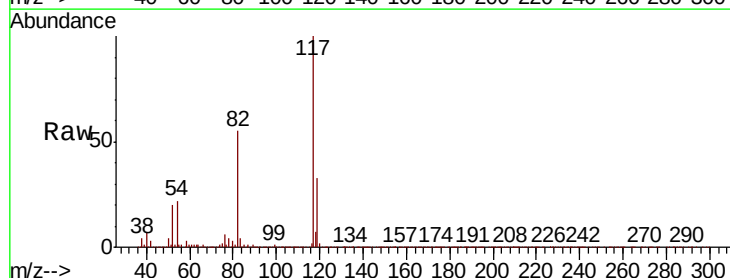
Tgt Ion: 117 Resp: 1471321

Ion Ratio Lower Upper

117 100

82 55.4 47.8 71.8

119 33.4 26.8 40.2

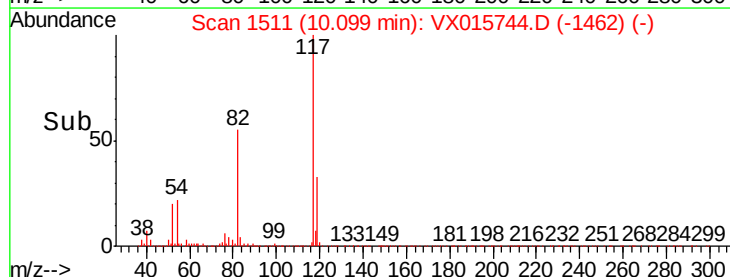


Abundance Ion 116.90 (116.60 to 117.60): VX015368.D (-1502) (-)

Ion 82.00 (81.70 to 82.70): VX015368.D (-1502) (-)

Ion 118.90 (118.60 to 119.60): VX015368.D (-1502) (-)

Time-->

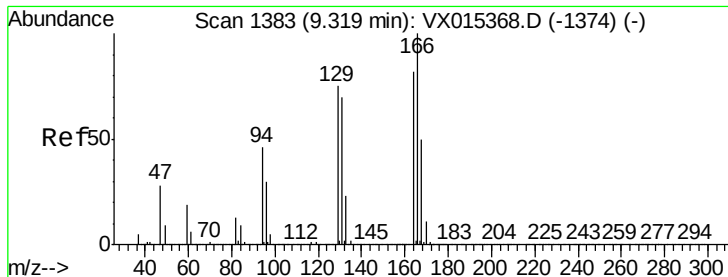


Abundance Ion 116.90 (116.60 to 117.60): VX015744.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015744.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015744.D (-1462) (-)

Time-->



#64

Tetrachloroethene

Concen: 0.316 ug/l

RT: 9.32 min Scan# 1383

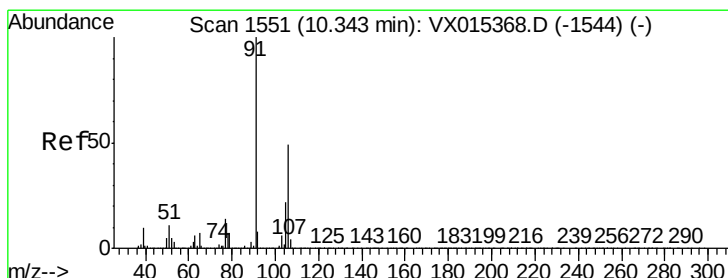
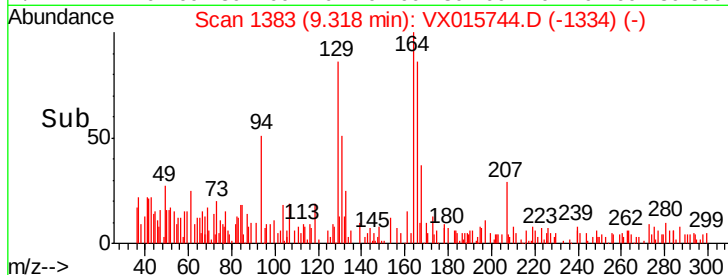
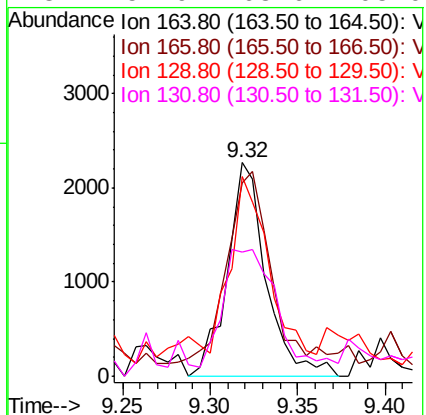
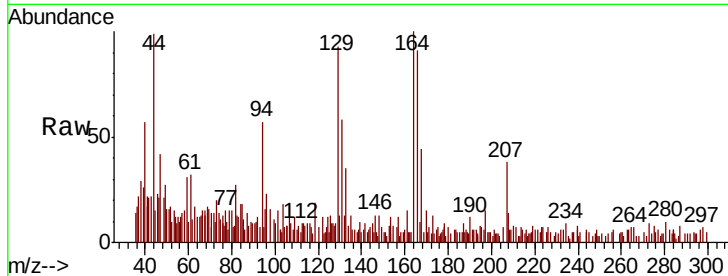
Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164	Resp:	3506
Ion Ratio	Lower	Upper
164	100	
166	82.4	97.8 146.6#
129	74.7	73.0 109.4
131	52.9	68.6 103.0#



#68

m/p-Xylenes

Concen: 0.210 ug/l

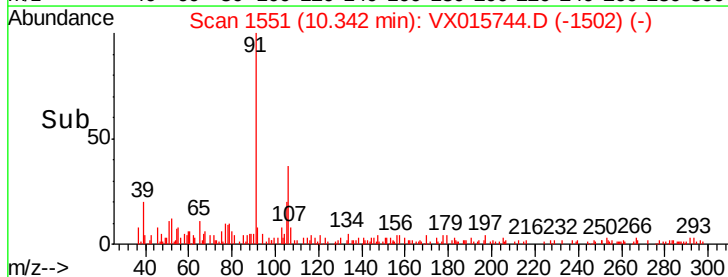
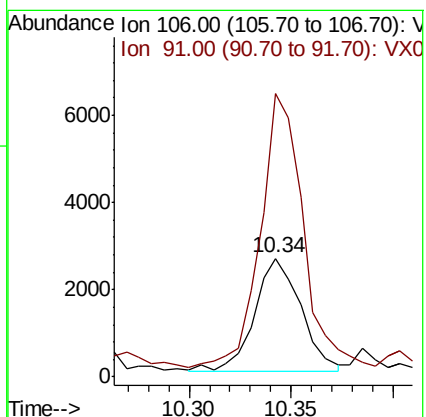
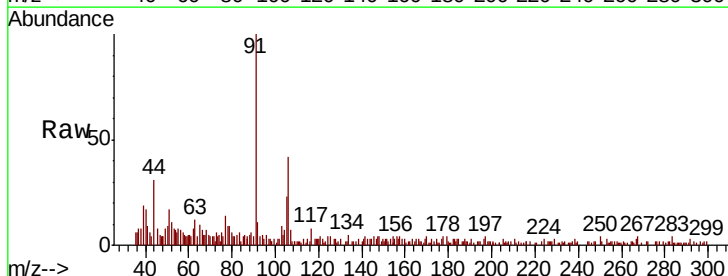
RT: 10.34 min Scan# 1551

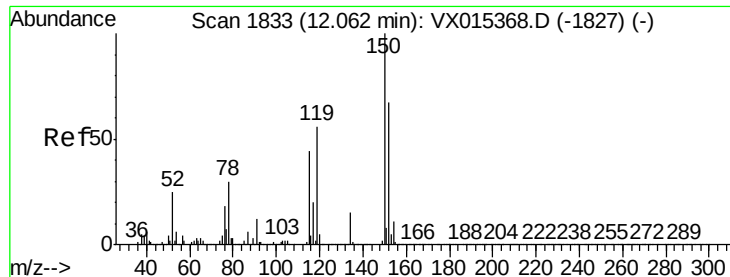
Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Tgt Ion:106	Resp:	4071
Ion Ratio	Lower	Upper
106	100	
91	225.1	163.4 245.0

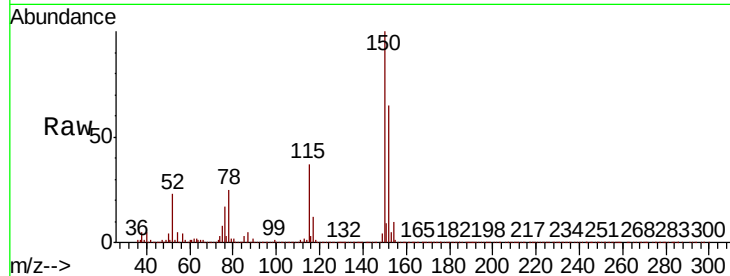




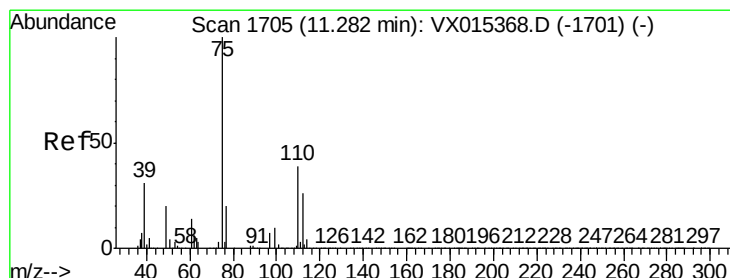
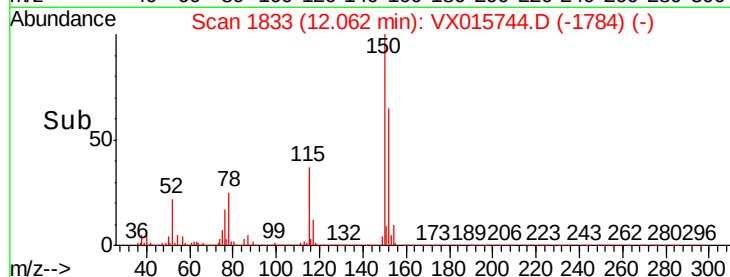
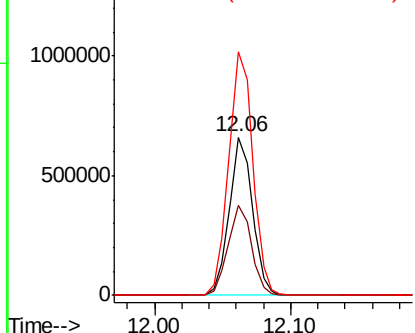
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	39.0	116.9
150	159.8	0.0	340.8

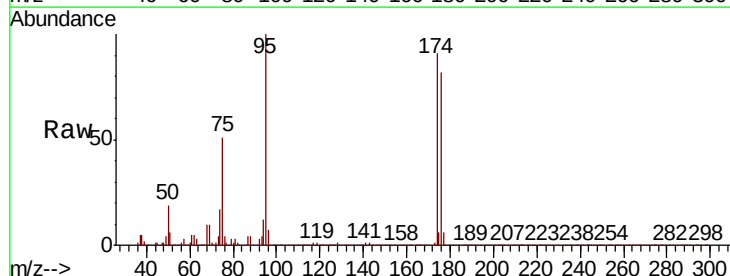


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

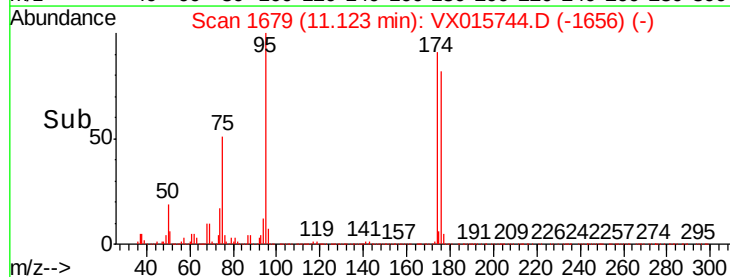
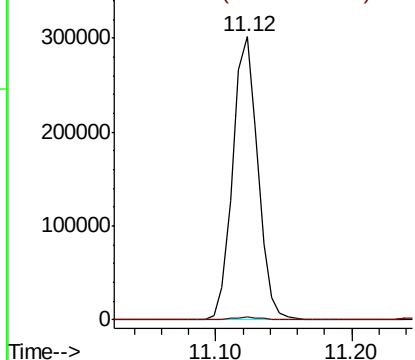


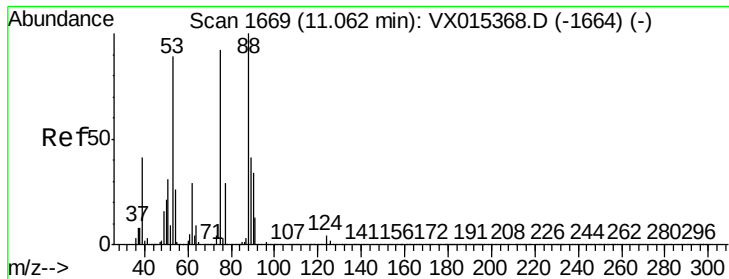
#76
 1,2,3-Trichloropropane
 Concen: 23.901 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	21.2	63.6



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 77.00 (76.70 to 77.70): VX0

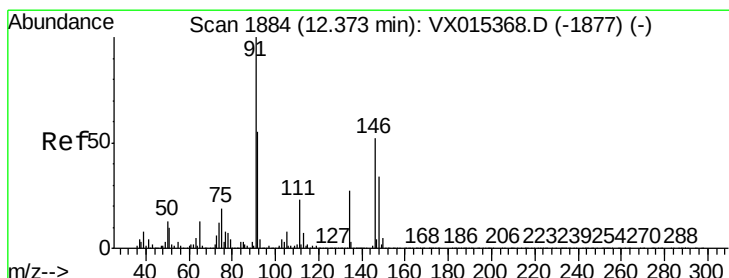
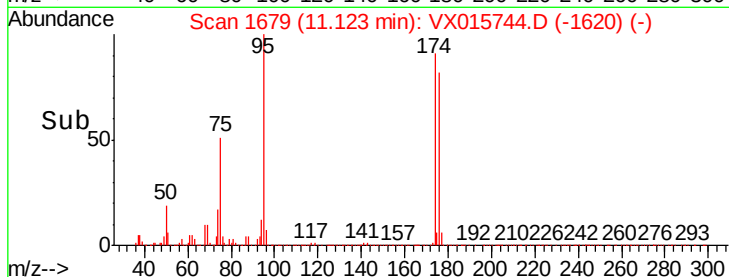
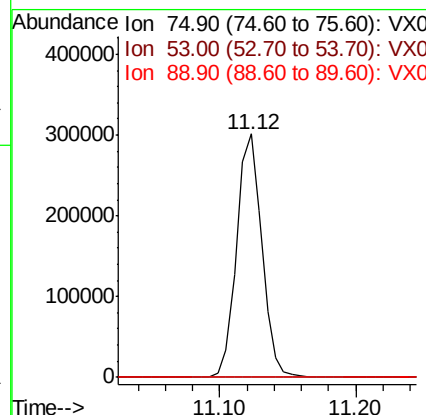
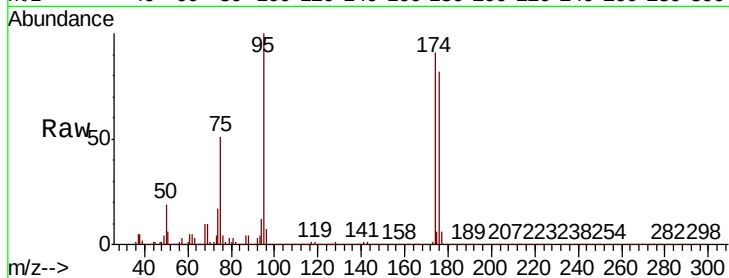




#81
trans-1,4-Dichloro-2-butene
Concen: 57.349 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.06 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

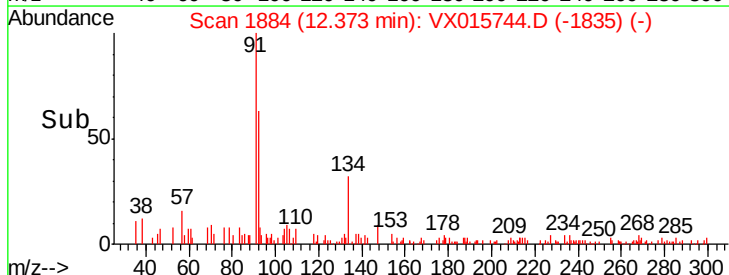
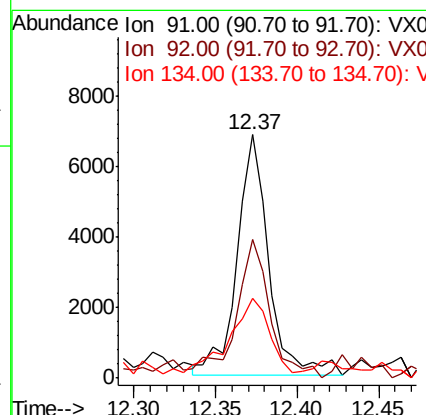
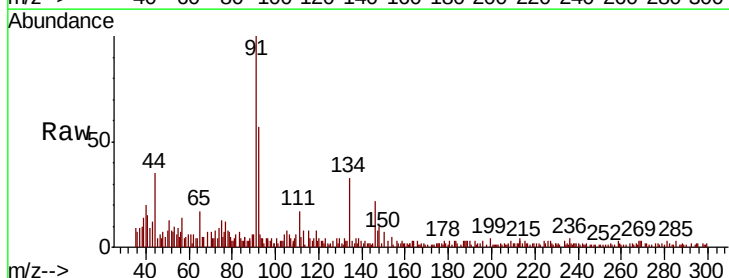
Instrument :
MSVOA_X
ClientSampleId :

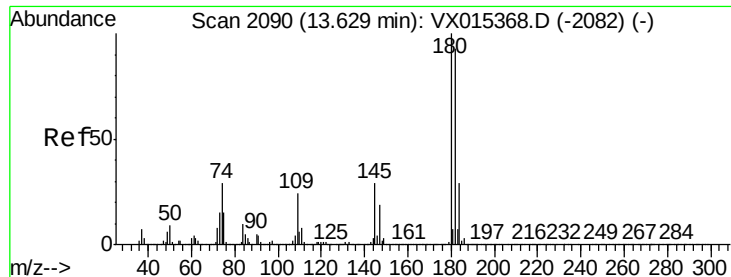
Tot Ion: 75 Resp: 386325
Ion Ratio Lower Upper
75 100
53 0.3 80.1 120.1#
89 0.0 36.1 54.1#



#89
n-Butylbenzene
Concen: 0.222 ug/l
RT: 12.37 min Scan# 1884
Delta R.T. -0.00 min
Lab File: VX015744.D
Acq: 17 Apr 2020 17:32

Tgt Ion: 91 Resp: 9242
Ion Ratio Lower Upper
91 100
92 62.5 27.2 81.5
134 39.2 13.4 40.2

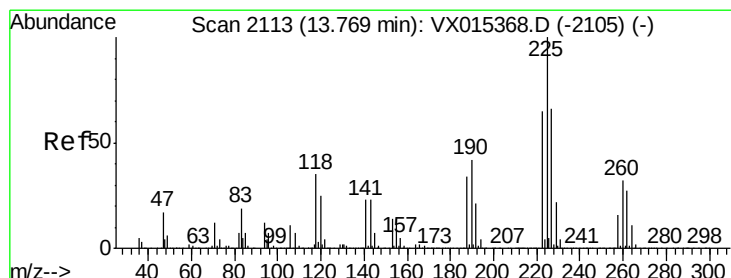
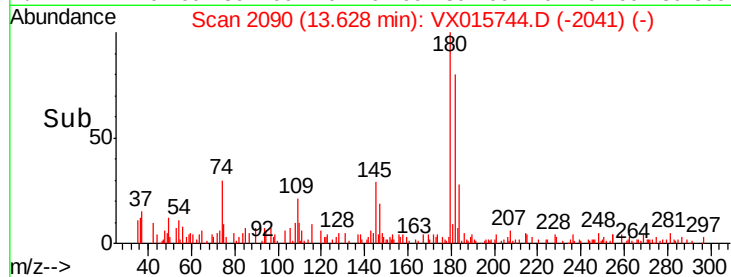
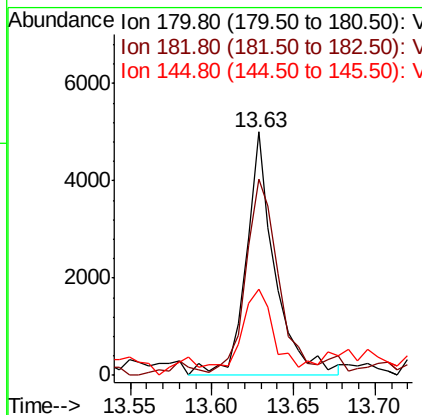
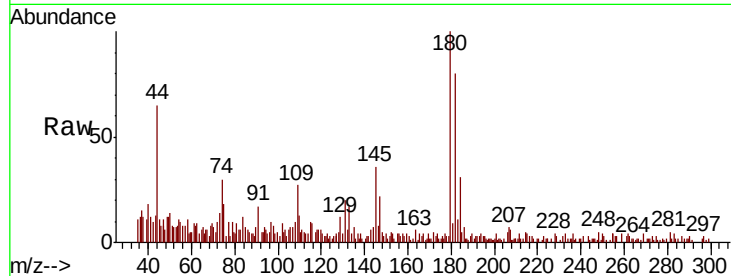




#93
 1,2,4-Trichlorobenzene
 Concen: 0.322 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

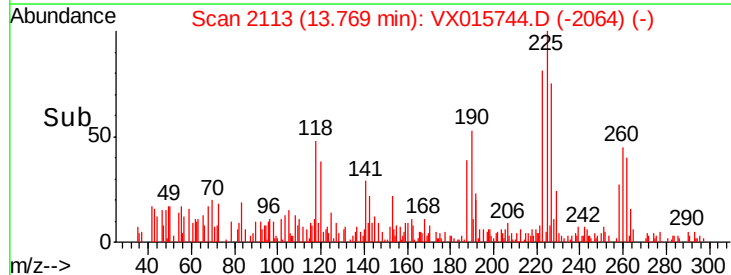
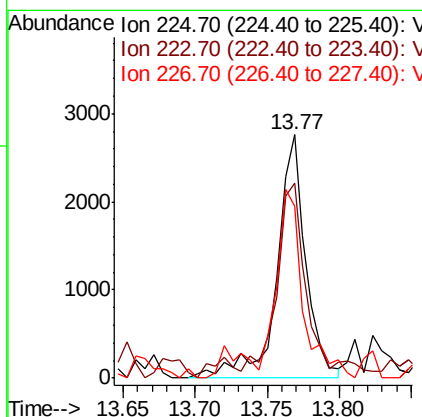
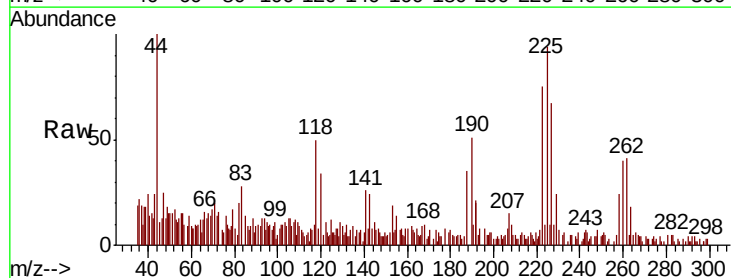
Instrument :
 MSVOA_X
 ClientSampleId :

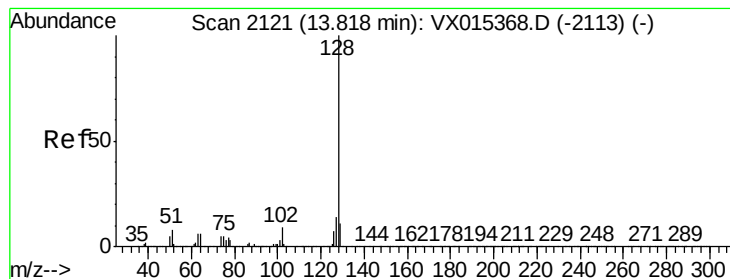
Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.9	140.7
145	31.5	14.9	44.5



#94
 Hexachlorobutadiene
 Concen: 0.432 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VX015744.D
 Acq: 17 Apr 2020 17:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	72.8	31.9	95.7
227	70.3	30.4	91.3





#95

Naphthalene

Concen: 1.175 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. -0.00 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

Instrument :

MSVOA_X

ClientSampleId :

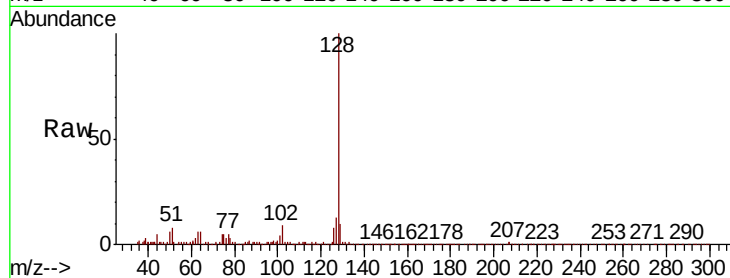
Tot Ion:128 Resp: 68217

Ion Ratio Lower Upper

128 100

127 13.6 10.6 15.8

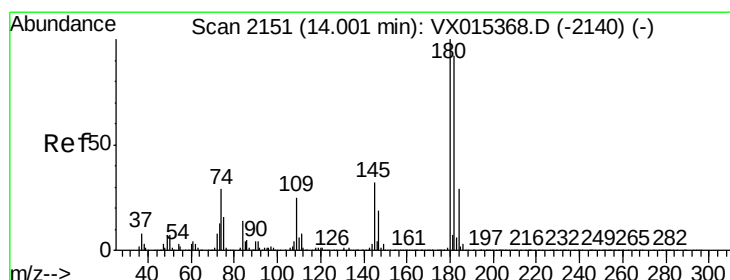
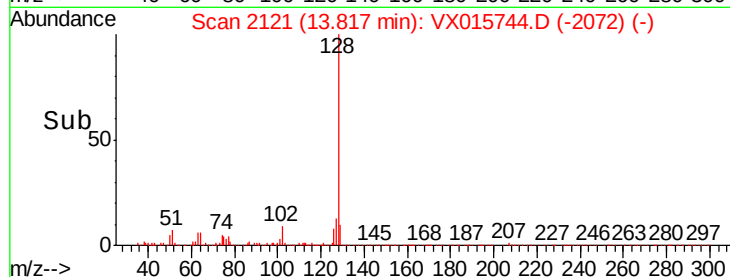
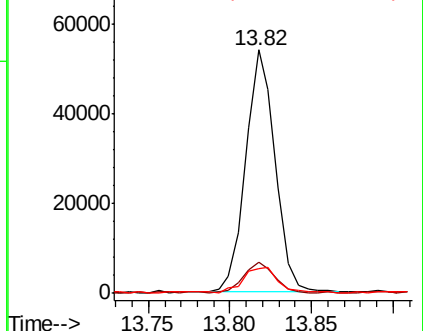
129 12.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.265 ug/l

RT: 14.01 min Scan# 2152

Delta R.T. 0.01 min

Lab File: VX015744.D

Acq: 17 Apr 2020 17:32

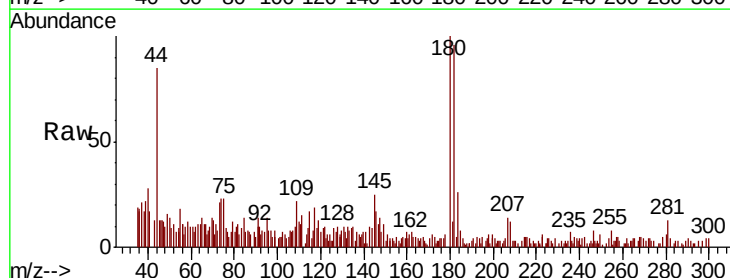
Tgt Ion:180 Resp: 4848

Ion Ratio Lower Upper

180 100

182 99.7 46.7 140.0

145 38.9 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

