

Data File : VX001710.D

Acq On : 14 May 2018 13:48

Operator : JC/MD

Sample : J2904-01DL 5X

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Quant Time: May 16 02:38:05 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X051118W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri May 11 07:16:13 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	54016	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	310813	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	278106	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	126583	32.12	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.07%
60) 4-Bromofluorobenzene	11.14	95	129934	29.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.40%
63) Toluene-d8	8.72	98	363152	29.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.60%

Target Compounds

						Qvalue
5) Bromomethane	1.65	94	860	0.57	ug/l	# 72
11) Methyl Iodide	2.52	142	1665	0.46	ug/l	# 70
12) Methyl Acetate	2.70	43	12088880	2843.92	ug/l	# 53
14) Acrylonitrile	3.16	53	744	0.44	ug/l	85
15) Acetone	2.45	58	1929658	4229.98	ug/l	88
16) Carbon Disulfide	2.57	76	1938	0.31	ug/l	# 79
17) Allyl chloride	2.70	41	5220783	1094.76	ug/l	# 74
18) Methylene Chloride	2.86	84	1656	0.56	ug/l	# 81
19) trans-1,2-Dichloroethene	3.17	96	548	0.20	ug/l	# 78
20) Diisopropyl ether	3.88	45	283730	31.84	ug/l	92
23) tert-Butyl Alcohol	3.08	59	4195	5.55	ug/l	# 98
25) Chloroform	5.22	83	16122	3.05	ug/l	90
30) 2-Butanone	4.71	43	9057	3.52	ug/l	# 59
41) Bromodichloromethane	7.91	83	1738	0.41	ug/l	100
44) Isopropyl Acetate	6.48	43	59556	7.92	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	2065	0.41	ug/l	# 91
59) 2-Hexanone	9.51	43	5312	1.42	ug/l	97
77) t-1,4-Dichloro-2-butene	11.08	75	638	0.54	ug/l	# 37
79) tert-butylbenzene	12.07	119	3120	0.25	ug/l	99
82) p-Isopropyltoluene	12.07	119	3120	0.25	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	1829	0.24	ug/l	84
85) n-Butylbenzene	12.36	91	67660	6.76	ug/l	# 35
87) 1,2-Dichlorobenzene	12.10	146	1829	0.24	ug/l	86
89) 1,2,4-Trichlorobenzene	13.66	180	2698	0.49	ug/l	92
90) Hexachlorobutadiene	13.79	225	1527	0.54	ug/l	91
91) Naphthalene	13.85	128	7053	0.43	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	2248	0.39	ug/l	98

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

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Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

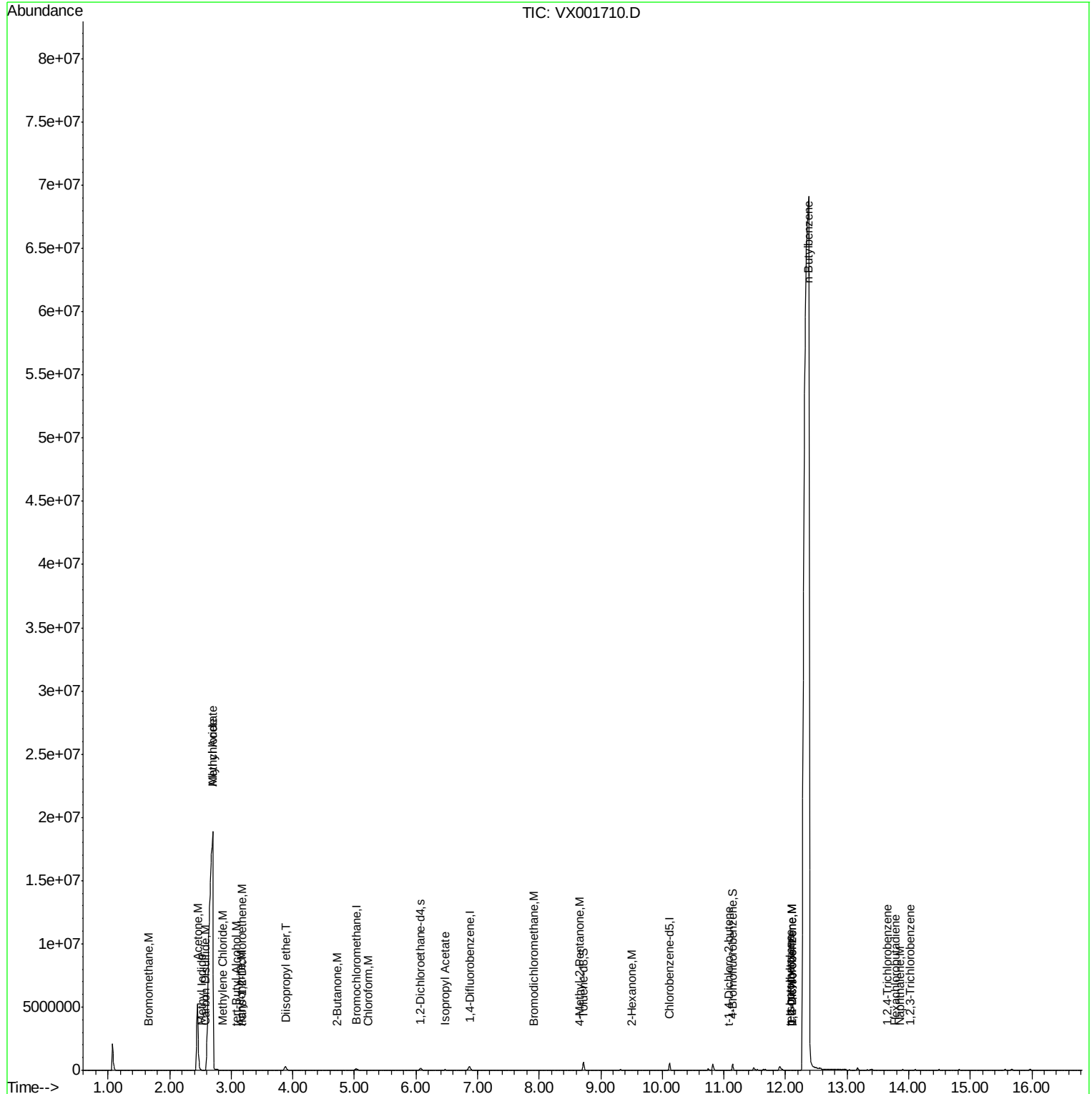
Quant Time: May 16 02:38:05 2018

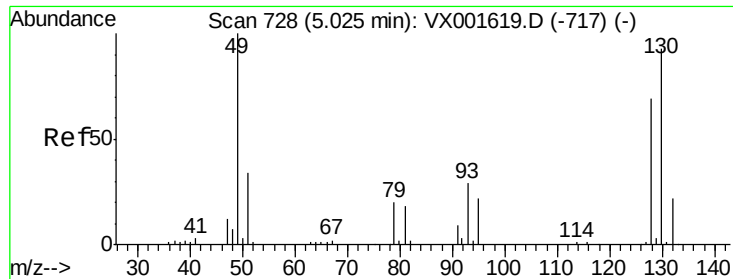
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X051118W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri May 11 07:16:13 2018

Response via : Initial Calibration

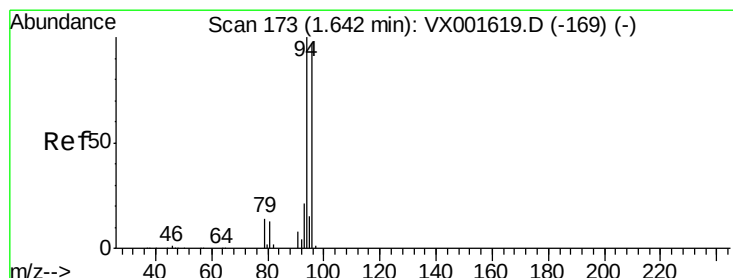
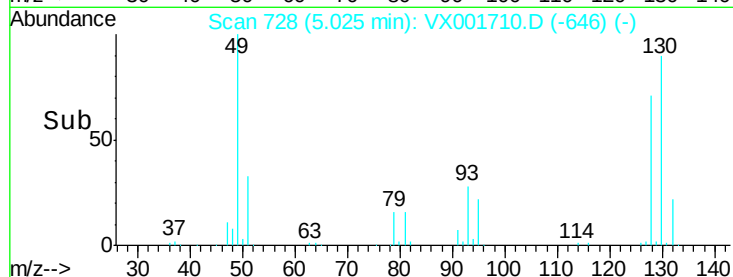
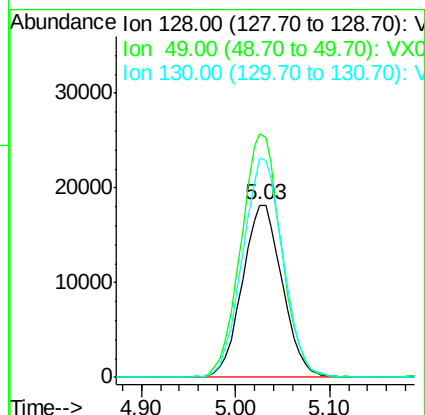
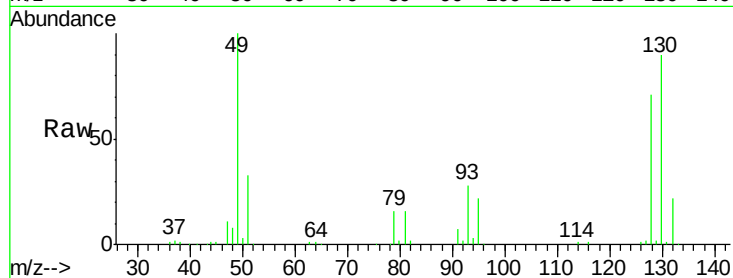




#1
 Bromochloromethane
 Concen: 30.00 ug/l
 RT: 5.03 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

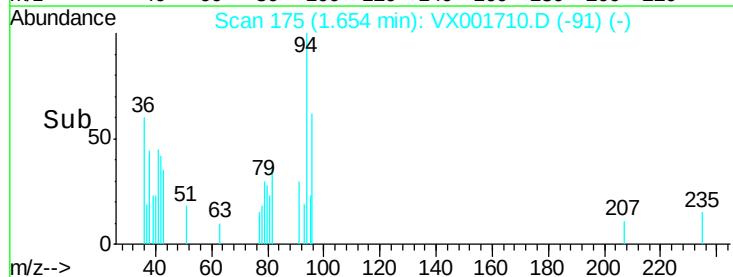
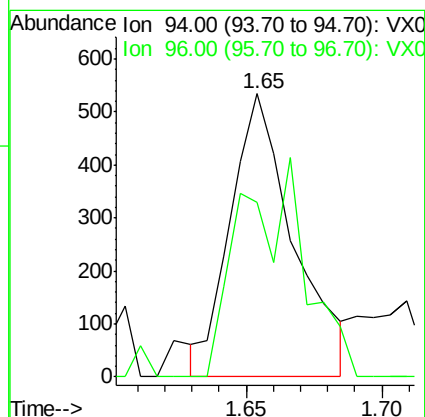
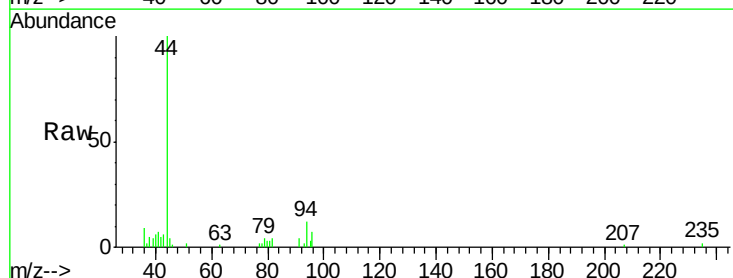
Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

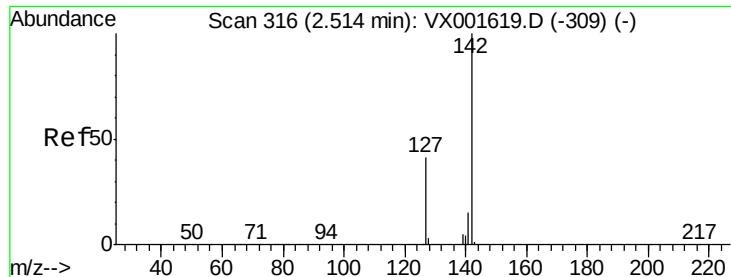
Tgt Ion:128 Resp: 54016
 Ion Ratio Lower Upper
 128 100
 49 142.5 0.0 372.0
 130 128.8 0.0 326.5



#5
 Bromomethane
 Concen: 0.57 ug/l
 RT: 1.65 min Scan# 175
 Delta R.T. 0.01 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

Tgt Ion: 94 Resp: 860
 Ion Ratio Lower Upper
 94 100
 96 69.9 77.8 116.8#

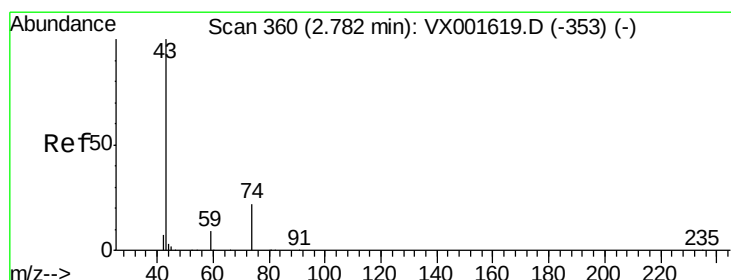
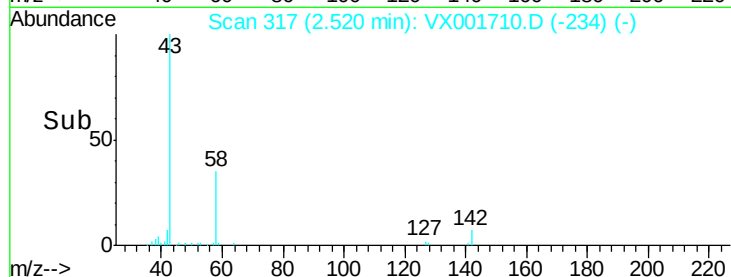
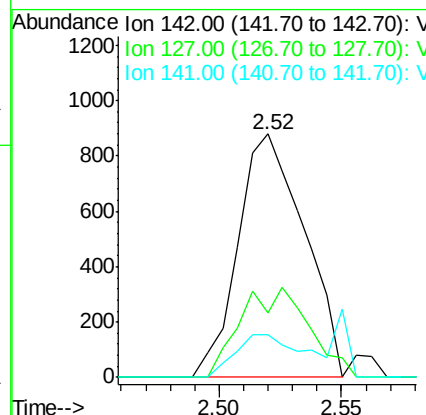
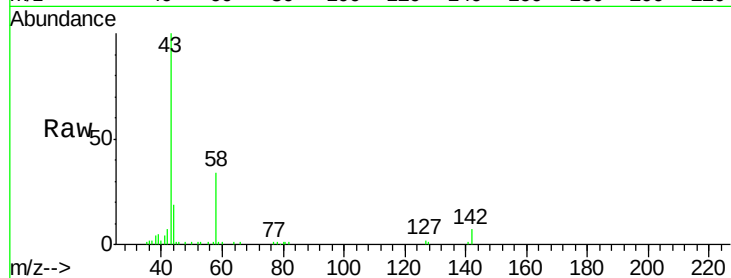




#11
Methyl Iodide
Concen: 0.46 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

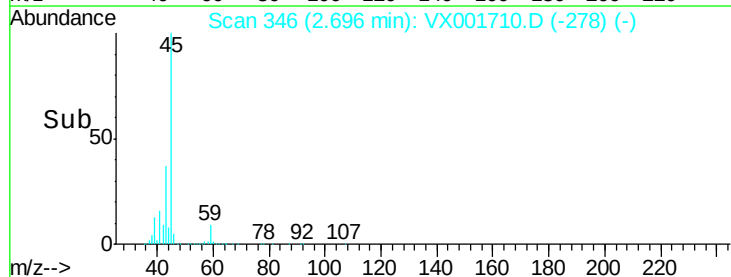
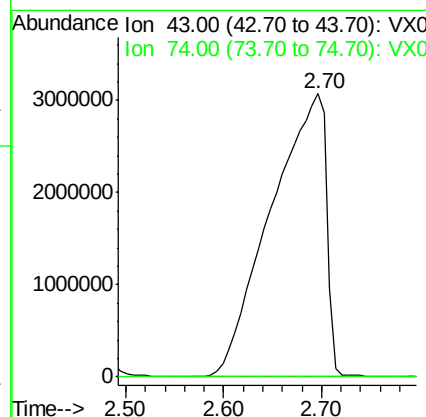
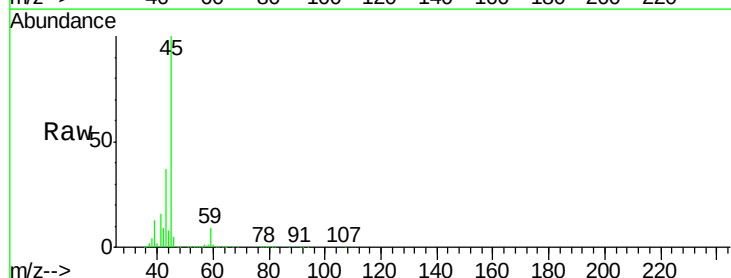
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

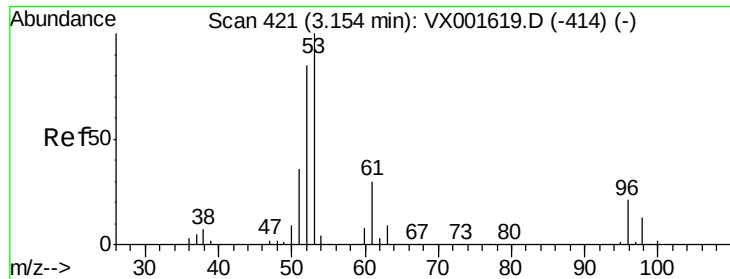
Tgt Ion:142 Resp: 1665
Ion Ratio Lower Upper
142 100
127 22.3 20.7 62.1
141 3.6 7.4 22.3#



#12
Methyl Acetate
Concen: 2843.92 ug/l
RT: 2.70 min Scan# 346
Delta R.T. -0.09 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion: 43 Resp:12088880
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#





#14

Acrylonitrile

Concen: 0.44 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

Instrument :

MSVOA_X

ClientSampled :

EFF-WW

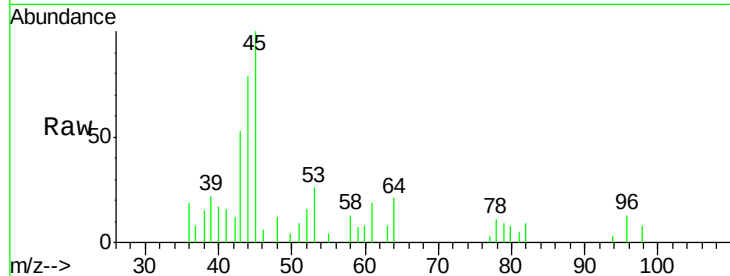
Tgt Ion: 53 Resp: 744

Ion Ratio Lower Upper

53 100

52 99.9 41.3 123.9

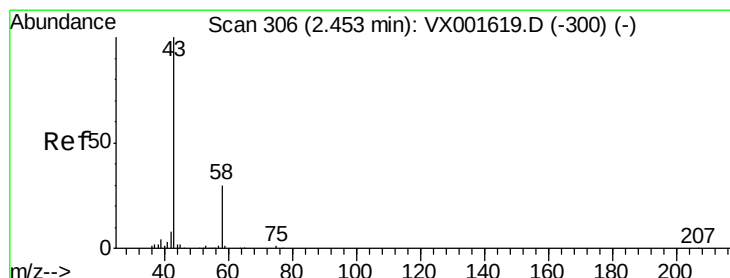
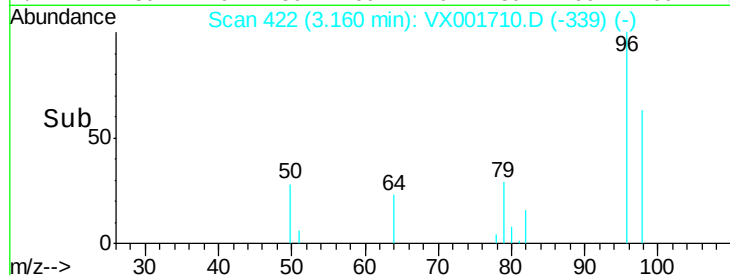
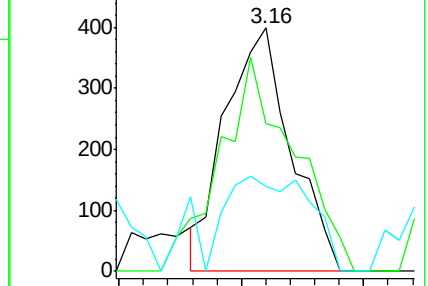
51 32.7 18.1 54.3



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#15

Acetone

Concen: 4229.98 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001710.D

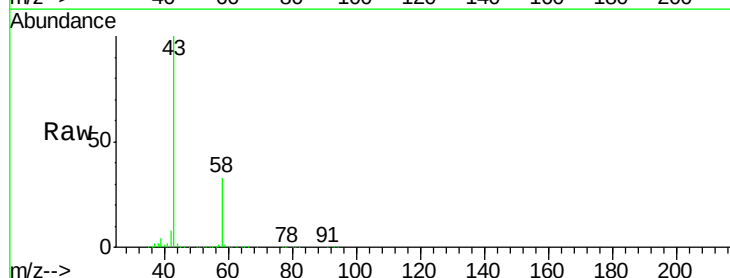
Acq: 14 May 2018 13:48

Tgt Ion: 58 Resp: 1929658

Ion Ratio Lower Upper

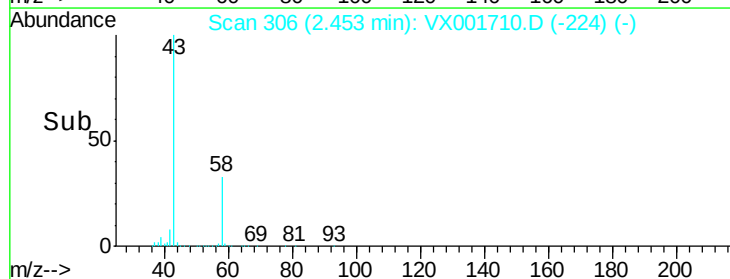
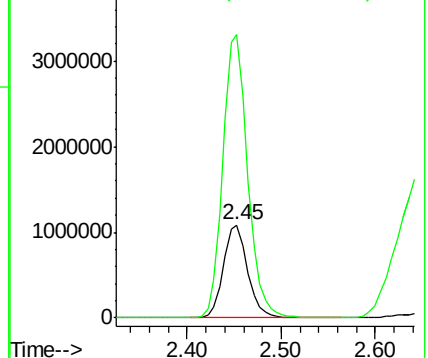
58 100

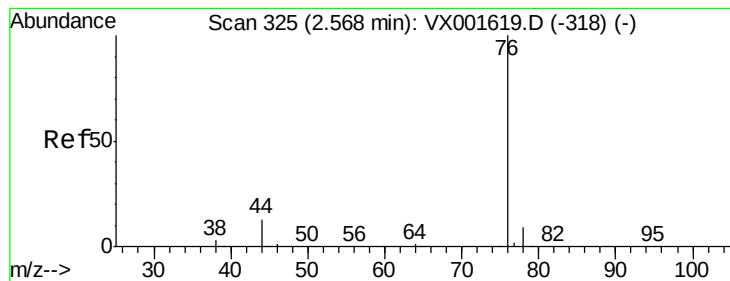
43 305.1 264.2 396.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#16

Carbon Disulfide

Concen: 0.31 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

Instrument :

MSVOA_X

ClientSampled :

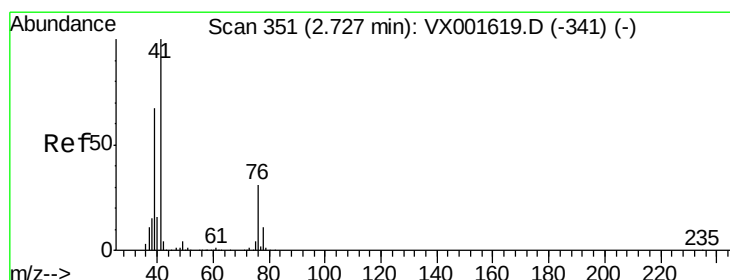
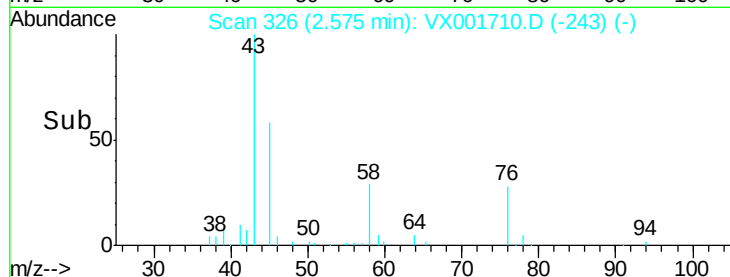
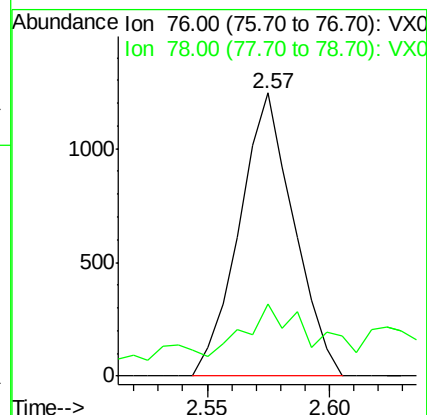
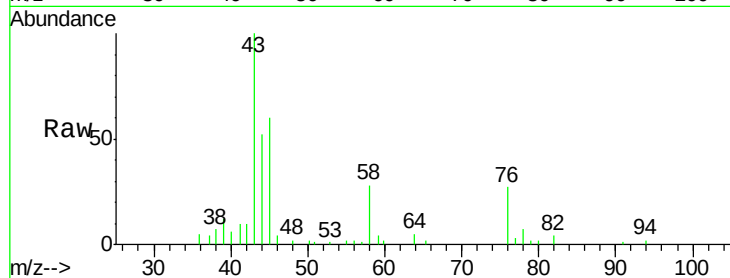
EFF-WW

Tgt Ion: 76 Resp: 1938

Ion Ratio Lower Upper

76 100

78 16.6 7.3 10.9#



#17

Allyl chloride

Concen: 1094.76 ug/l

RT: 2.70 min Scan# 346

Delta R.T. -0.03 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

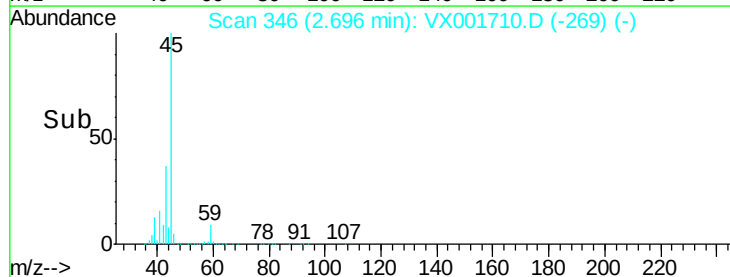
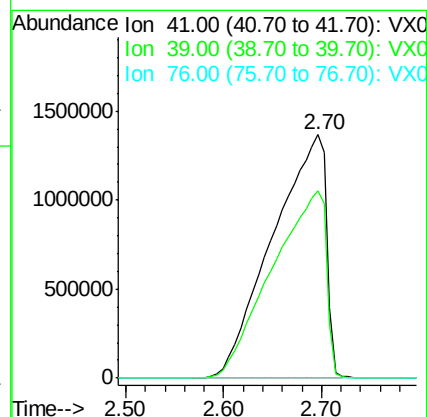
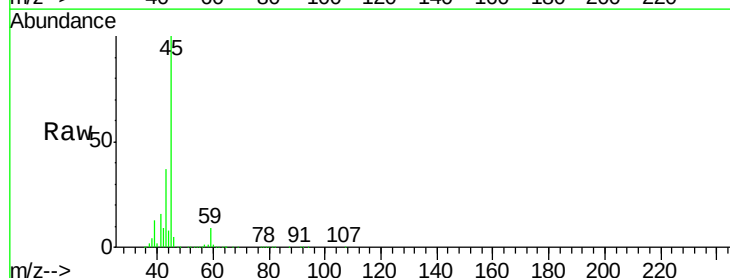
Tgt Ion: 41 Resp: 5220783

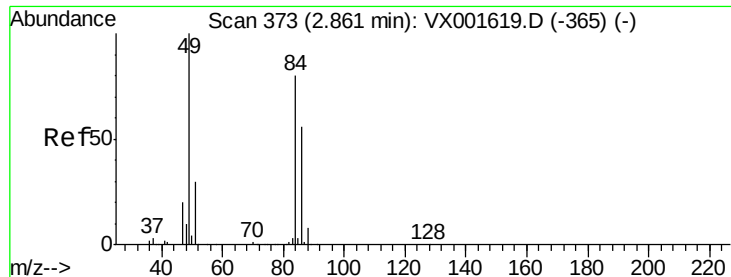
Ion Ratio Lower Upper

41 100

39 76.8 33.7 101.1

76 0.0 15.4 46.4#

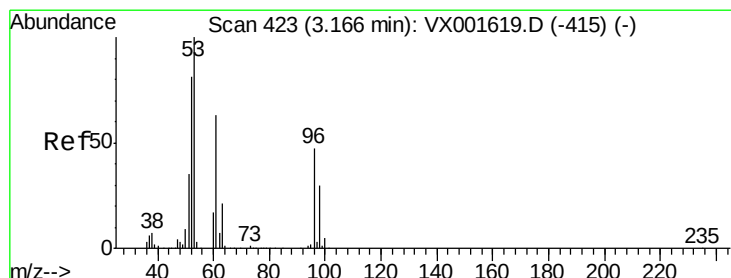
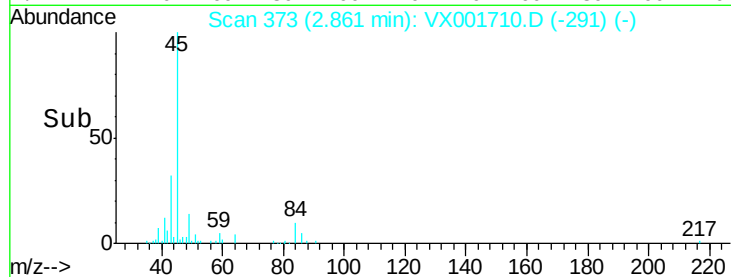
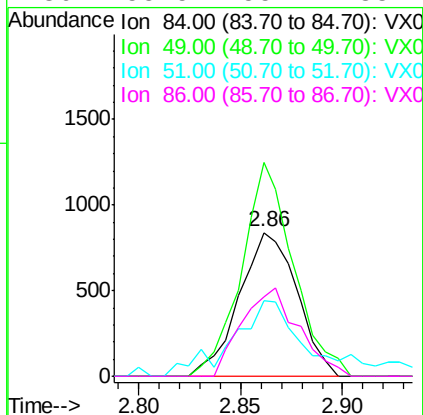
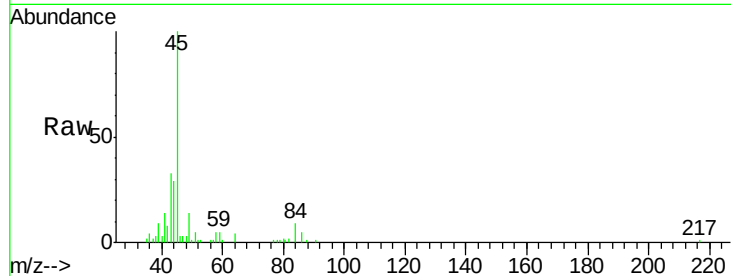




#18
Methylene Chloride
Concen: 0.56 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

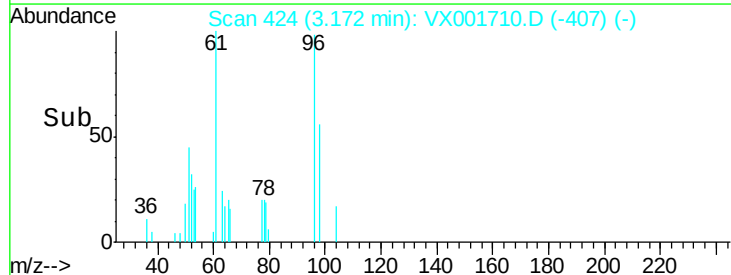
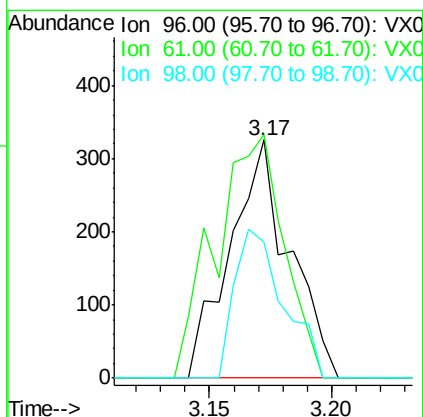
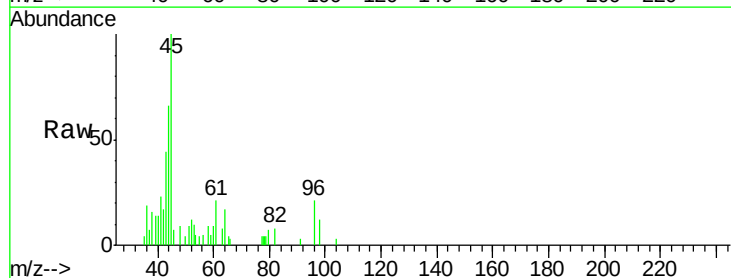
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

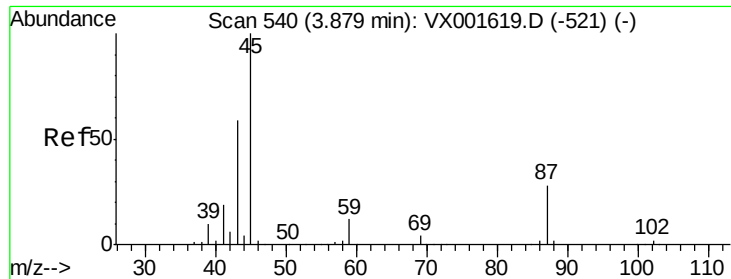
Tgt Ion: 84 Resp: 1656
Ion Ratio Lower Upper
84 100
49 148.6 99.5 149.3
51 45.5 30.1 45.1#
86 55.5 55.4 83.2



#19
trans-1,2-Dichloroethene
Concen: 0.20 ug/l
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion: 96 Resp: 548
Ion Ratio Lower Upper
96 100
61 102.1 107.7 161.5#
98 57.1 51.6 77.4

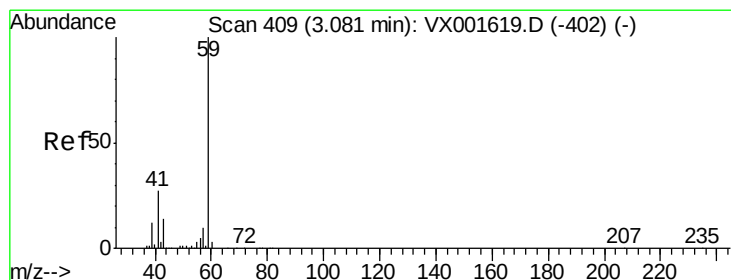
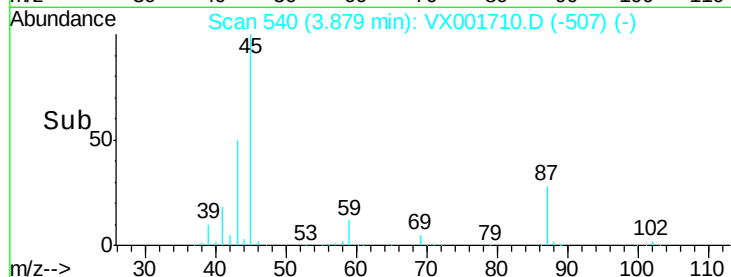
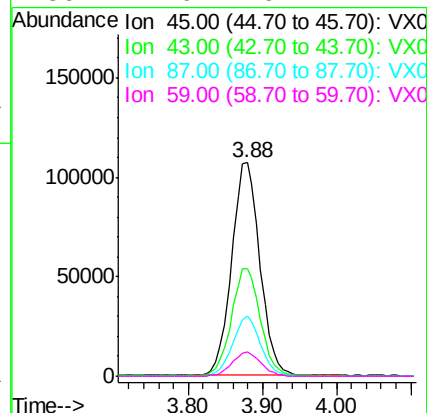
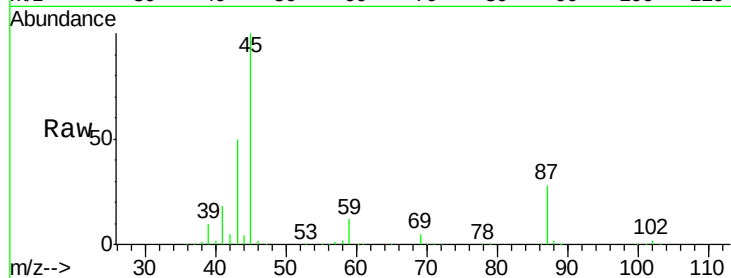




#20
Diisopropyl ether
Concen: 31.84 ug/l
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

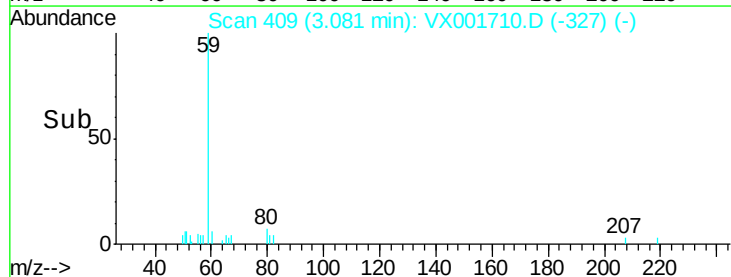
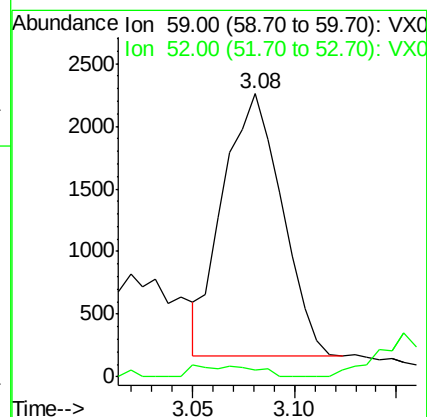
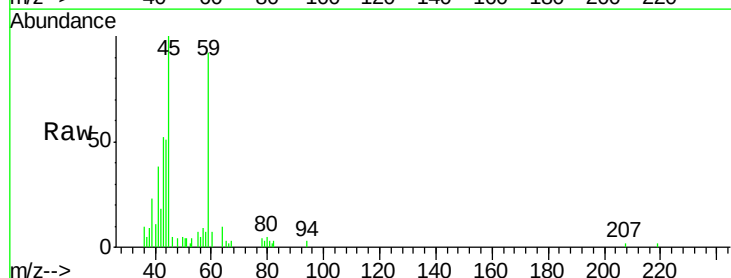
Instrument :
MSVOA_X
ClientSampled :
EFF-WW

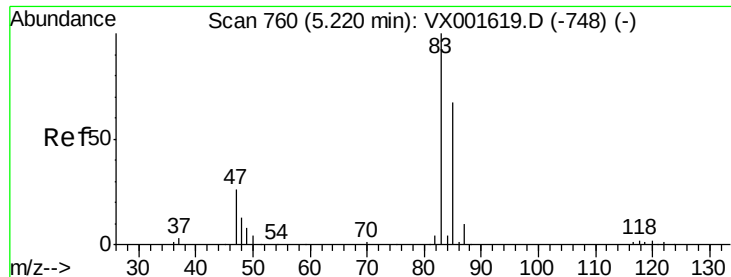
Tgt Ion:	45	Resp:	283730
Ion	Ratio	Lower	Upper
45	100		
43	49.9	47.5	71.3
87	28.3	22.2	33.4
59	11.6	9.4	14.2



#23
tert-Butyl Alcohol
Concen: 5.55 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion:	59	Resp:	4195
Ion	Ratio	Lower	Upper
59	100		
52	2.5	0.2	0.2#





#25

Chloroform

Concen: 3.05 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

Instrument :

MSVOA_X

ClientSampleId :

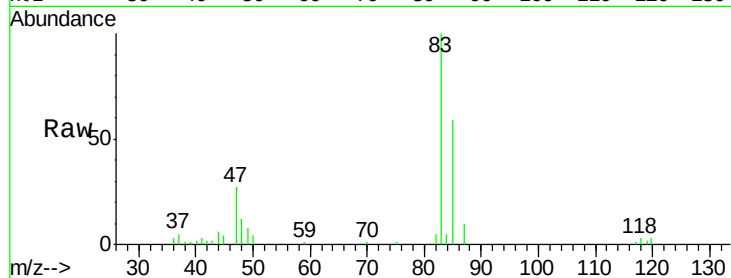
EFF-WW

Tgt Ion: 83 Resp: 16122

Ion Ratio Lower Upper

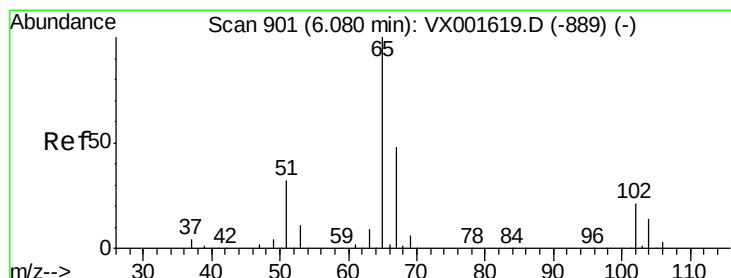
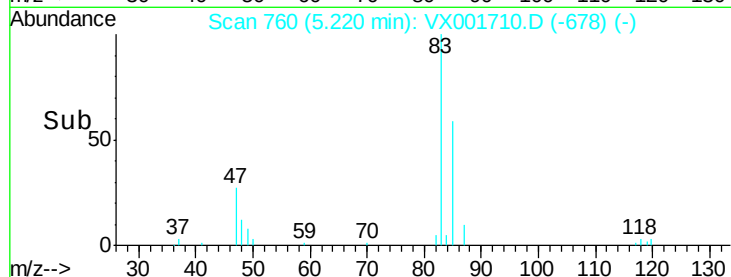
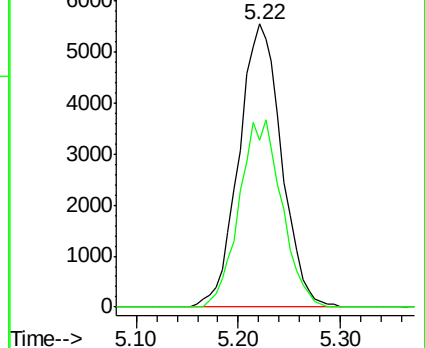
83 100

85 59.0 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 32.12 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX001710.D

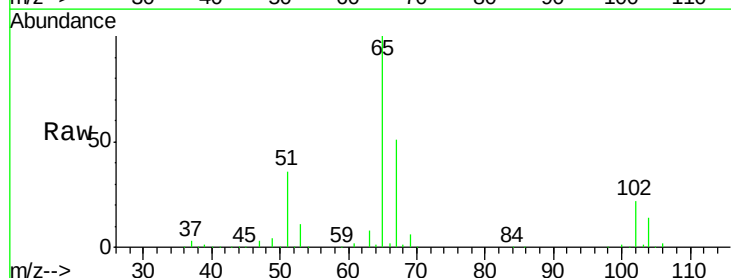
Acq: 14 May 2018 13:48

Tgt Ion: 65 Resp: 126583

Ion Ratio Lower Upper

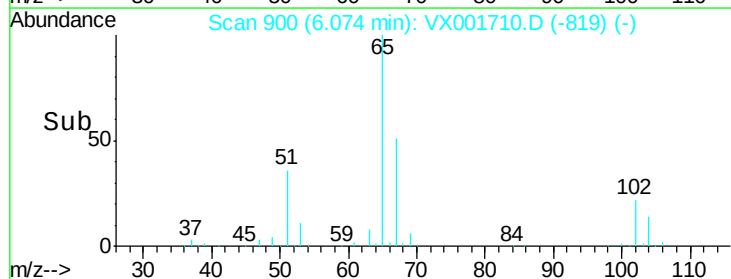
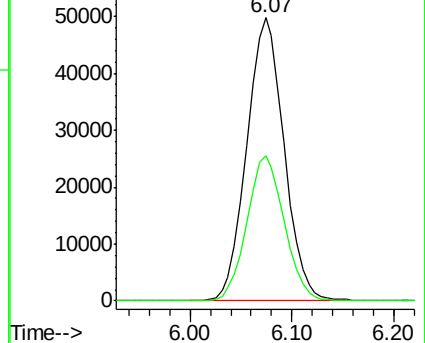
65 100

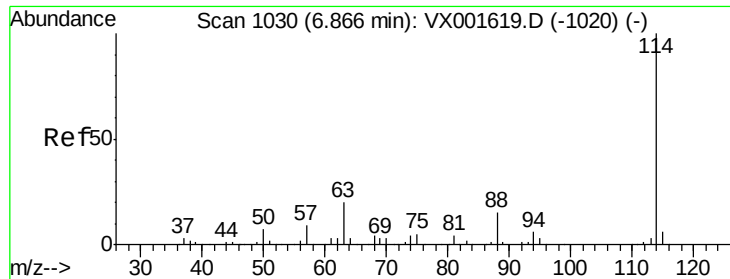
67 51.2 40.2 60.2



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

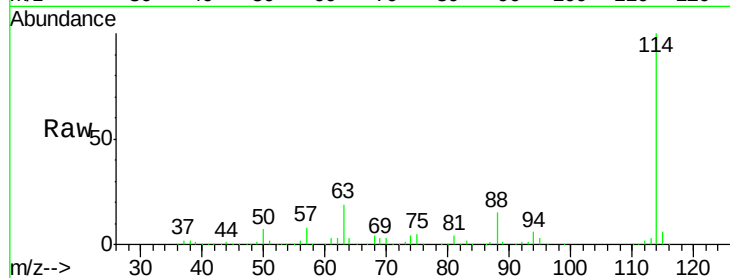




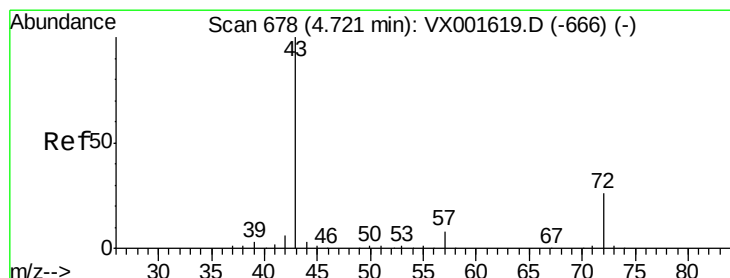
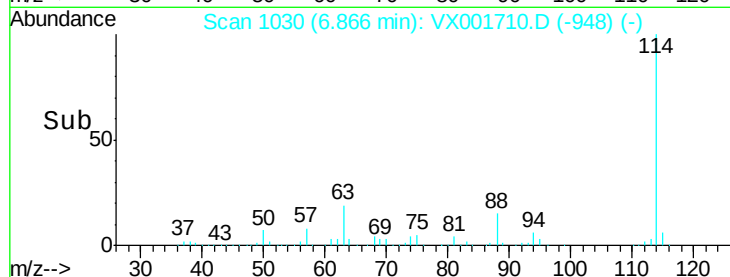
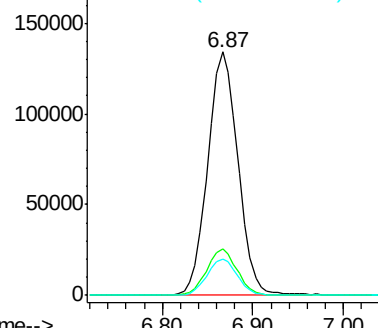
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Tgt Ion: 114 Resp: 310813
 Ion Ratio Lower Upper
 114 100
 63 19.1 15.5 23.3
 88 15.0 12.2 18.4

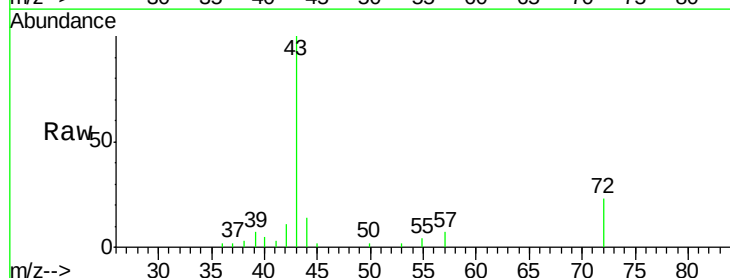


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

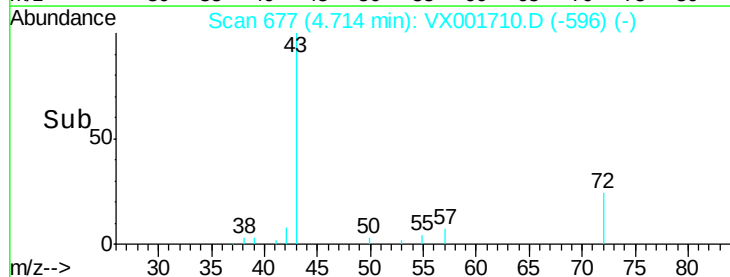
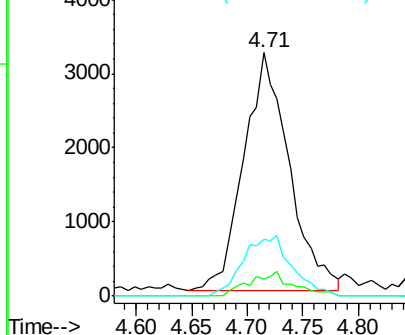


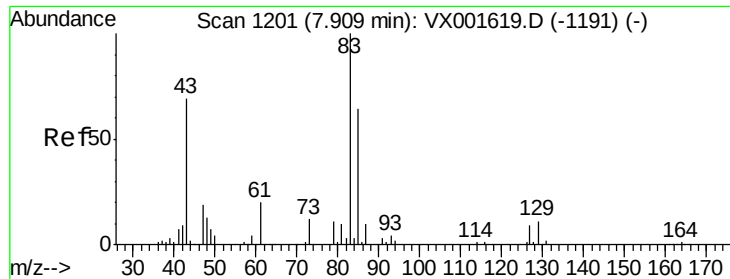
#30
 2-Butanone
 Concen: 3.52 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.01 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

Tgt Ion: 43 Resp: 9057
 Ion Ratio Lower Upper
 43 100
 57 4.2 6.3 9.5#
 72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0





#41

Bromodichloromethane

Concen: 0.41 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

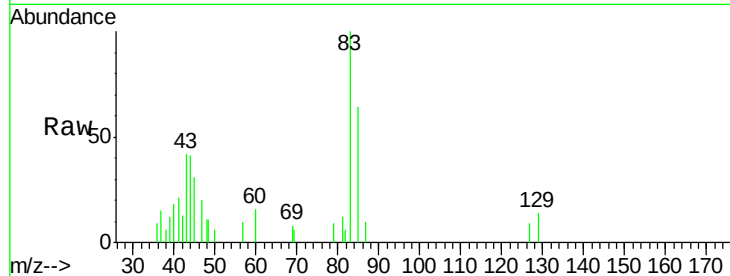
Tgt Ion: 83 Resp: 1738

Ion Ratio Lower Upper

83 100

85 64.4 51.3 76.9

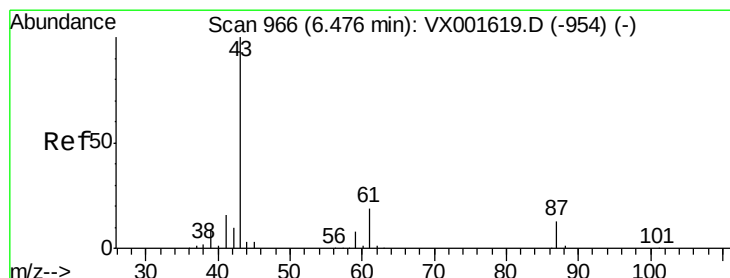
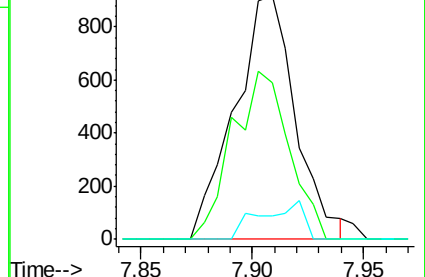
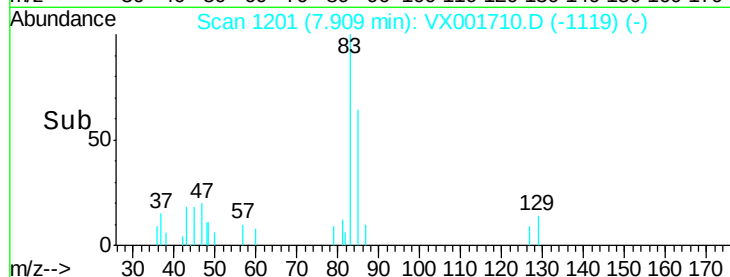
127 9.4 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#44

Isopropyl Acetate

Concen: 7.92 ug/l

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX001710.D

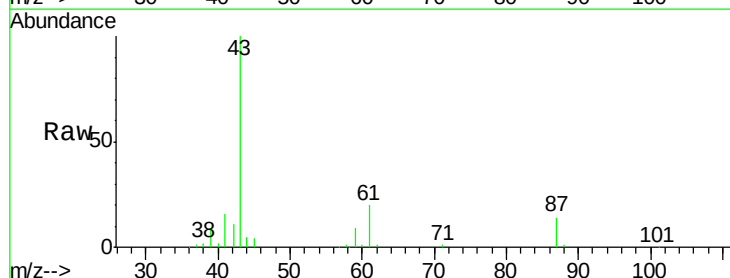
Acq: 14 May 2018 13:48

Tgt Ion: 43 Resp: 59556

Ion Ratio Lower Upper

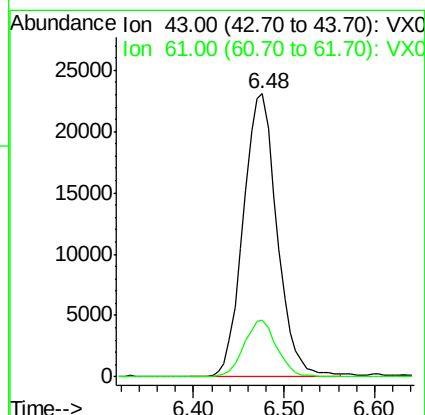
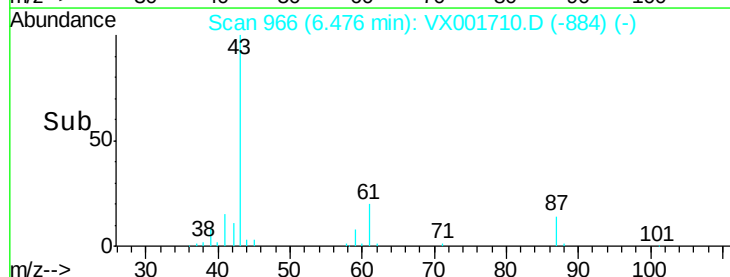
43 100

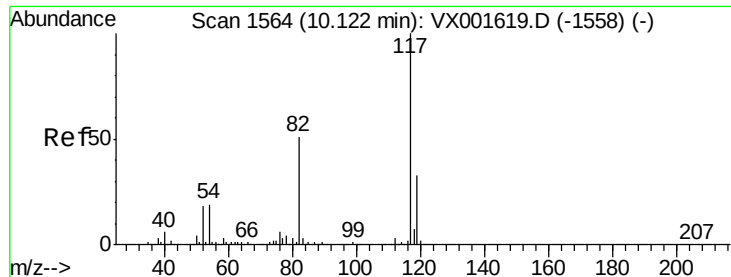
61 19.6 15.1 22.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

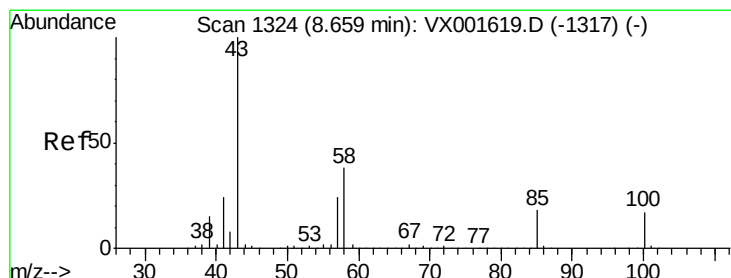
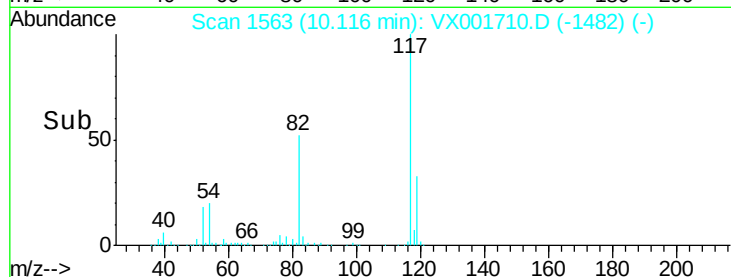
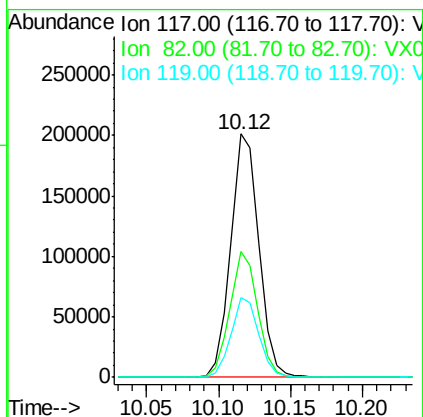
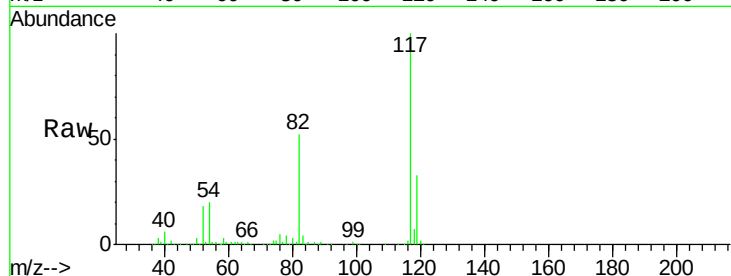




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

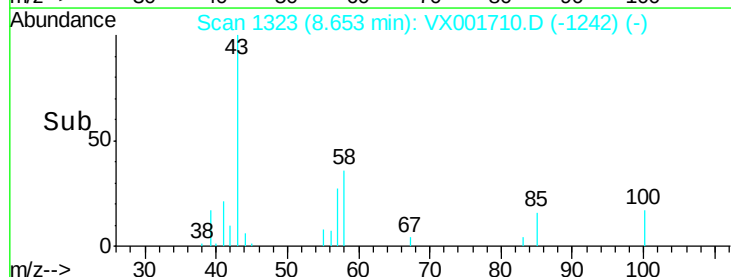
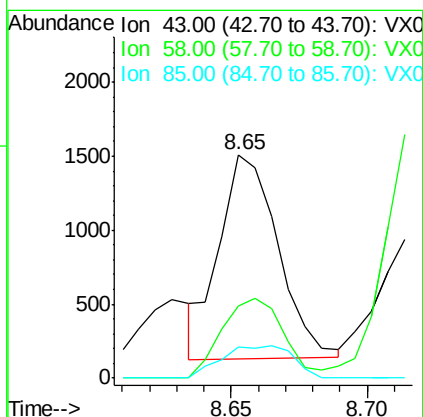
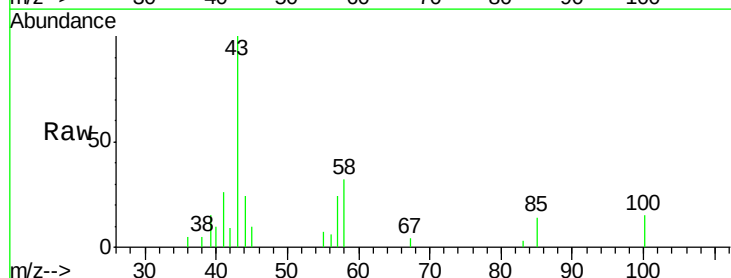
Instrument :
MSVOA_X
ClientSampled :
EFF-WW

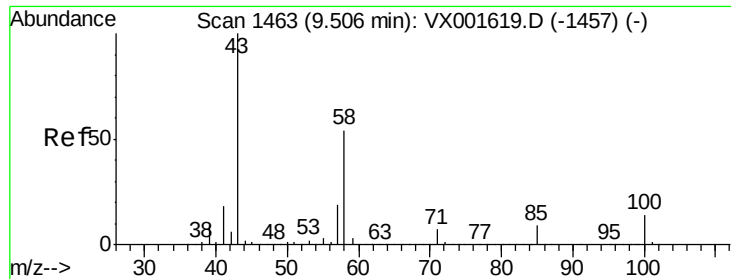
Tgt Ion: 117 Resp: 278106
Ion Ratio Lower Upper
117 100
82 50.9 42.2 63.2
119 32.1 26.3 39.5



#58
4-Methyl-2-Pentanone
Concen: 0.41 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion: 43 Resp: 2065
Ion Ratio Lower Upper
43 100
58 41.4 30.4 45.6
85 10.9 14.3 21.5#

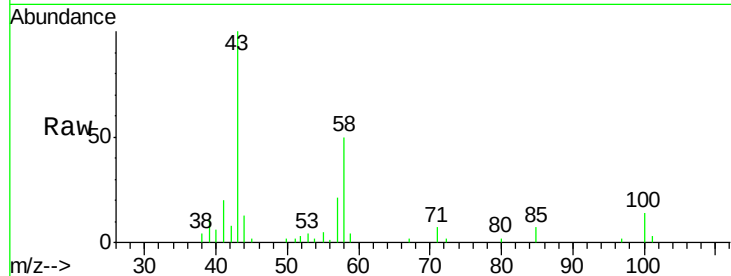




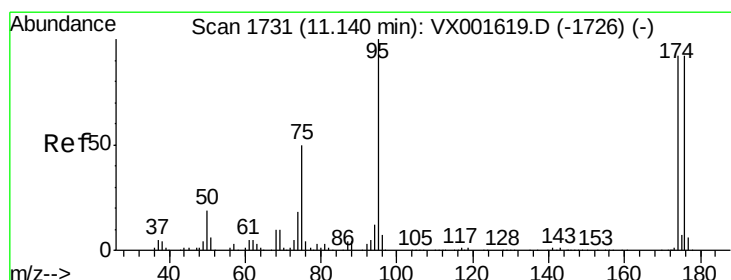
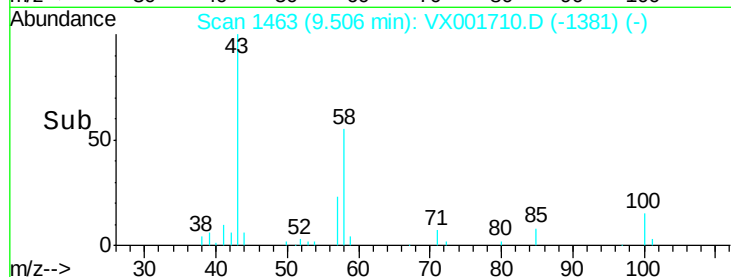
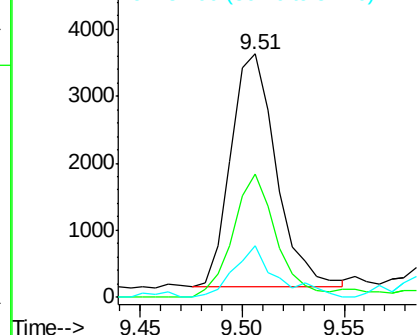
#59
2-Hexanone
Concen: 1.42 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.00 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Tgt Ion: 43 Resp: 5312
Ion Ratio Lower Upper
43 100
58 50.8 43.0 64.4
57 18.3 15.4 23.0

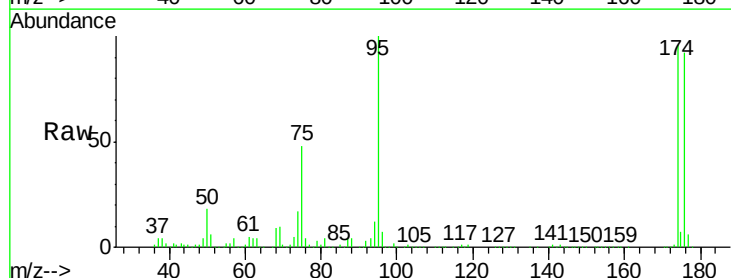


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

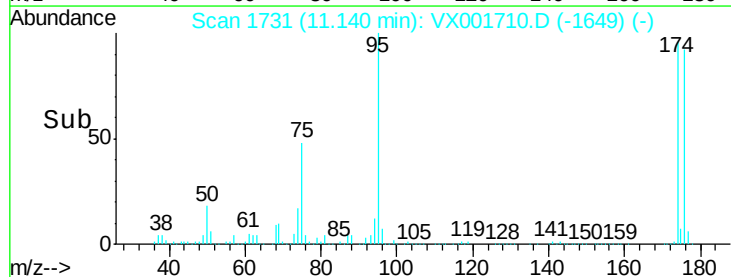
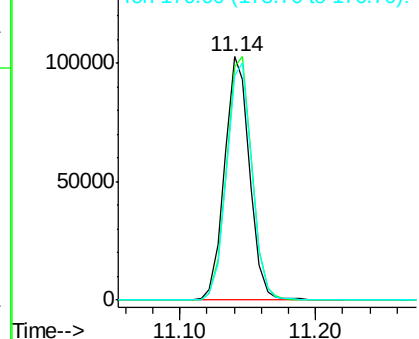


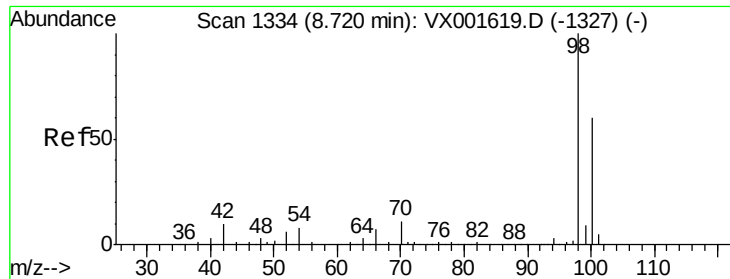
#60
4-Bromofluorobenzene
Concen: 29.52 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion: 95 Resp: 129934
Ion Ratio Lower Upper
95 100
174 102.3 80.2 120.2
176 99.2 79.2 118.8



Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 29.28 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

Instrument :

MSVOA_X

ClientSampled :

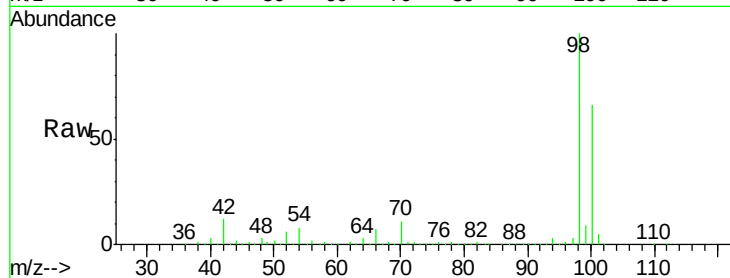
EFF-WW

Tgt Ion: 98 Resp: 363152

Ion Ratio Lower Upper

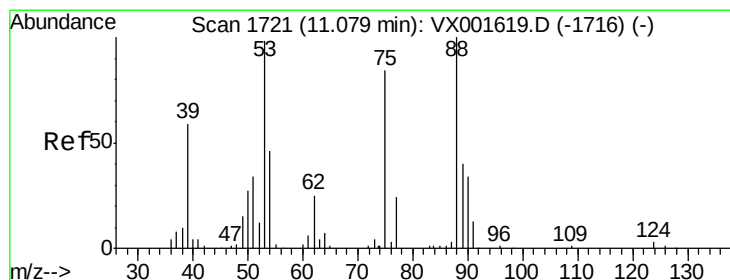
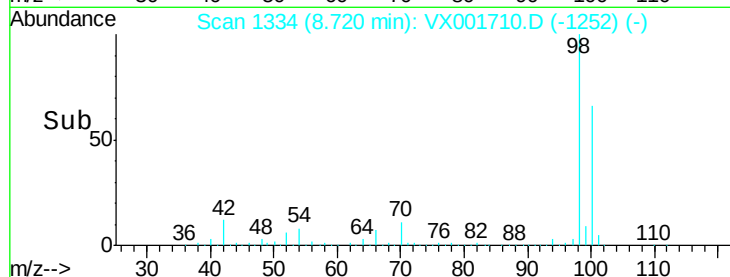
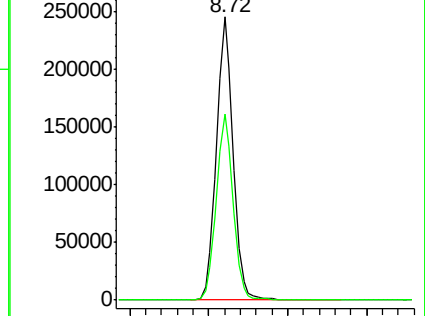
98 100

100 66.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#77

t-1,4-Dichloro-2-butene

Concen: 0.54 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VX001710.D

Acq: 14 May 2018 13:48

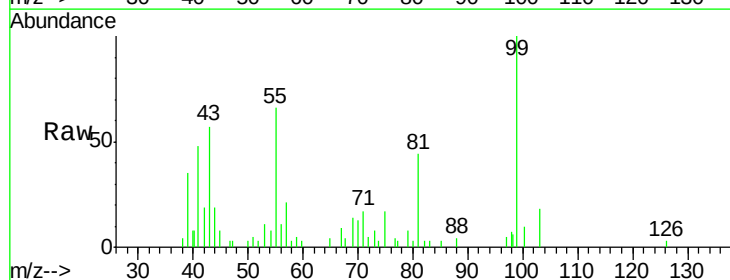
Tgt Ion: 75 Resp: 638

Ion Ratio Lower Upper

75 100

53 51.5 58.3 174.8#

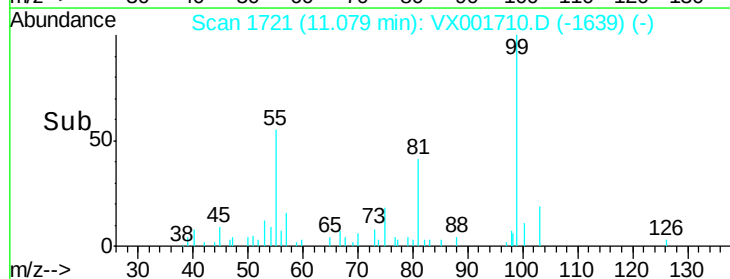
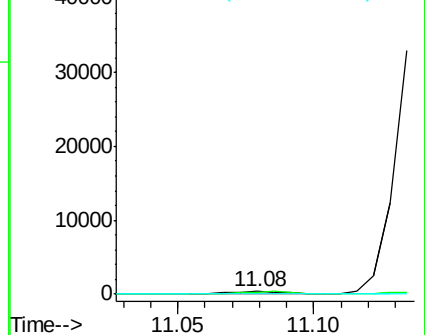
89 0.0 23.9 71.8#

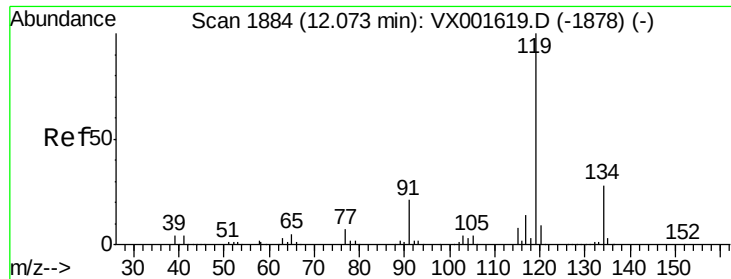


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

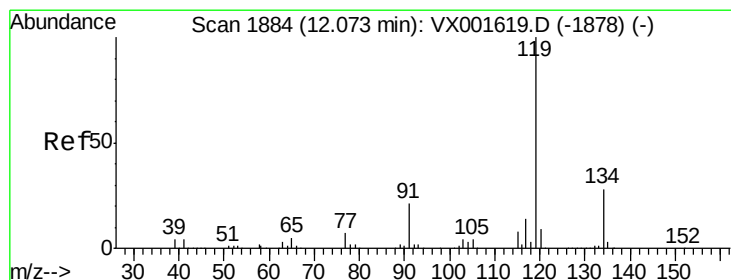
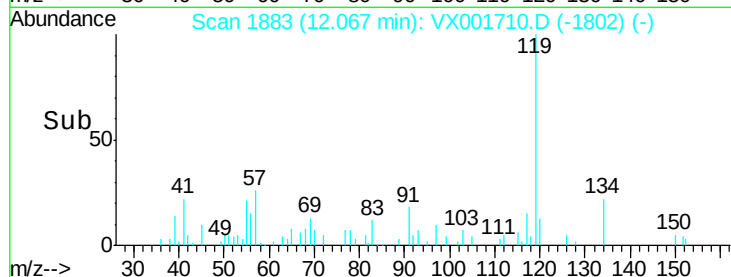
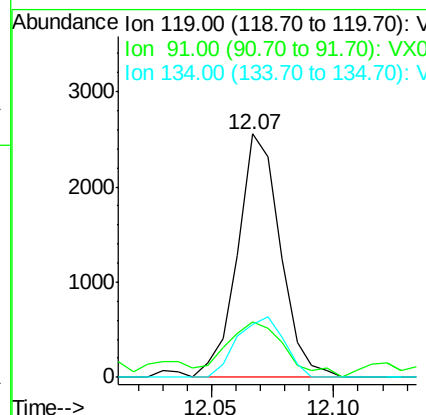
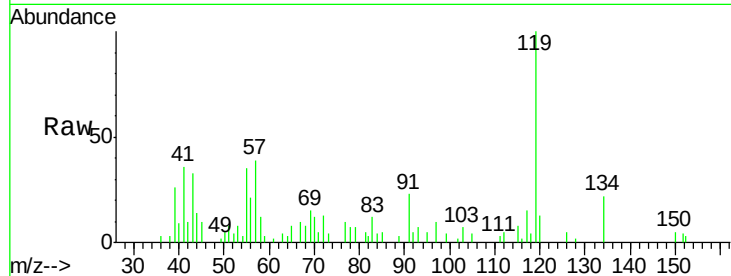




#79
tert-butylbenzene
Concen: 0.25 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. -0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

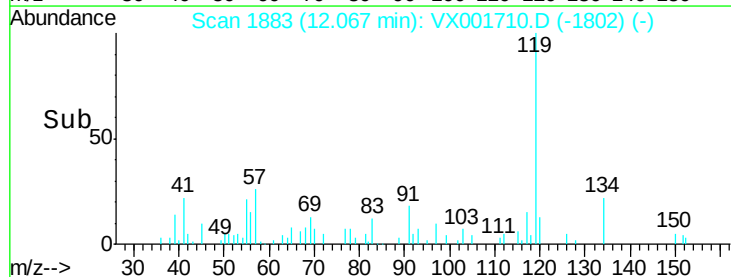
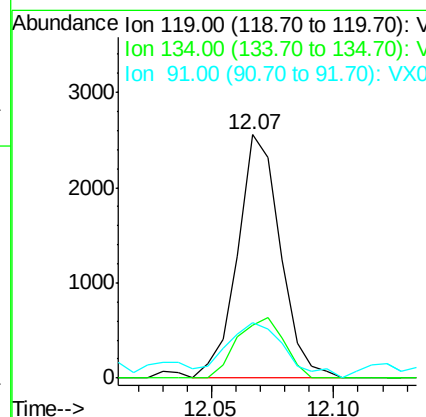
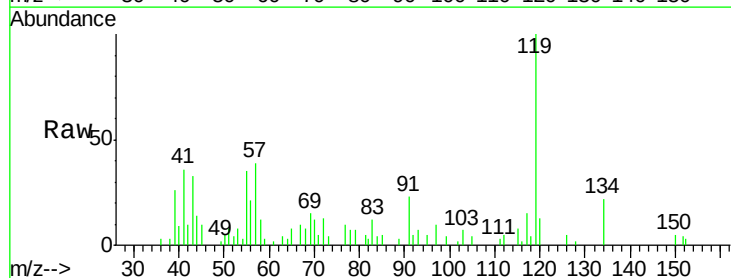
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

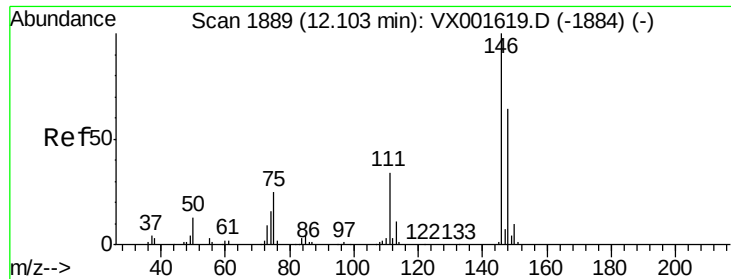
Tgt Ion:119 Resp: 3120
Ion Ratio Lower Upper
119 100
91 22.9 0.0 44.0
134 27.0 0.0 53.8



#82
p-Isopropyltoluene
Concen: 0.25 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. -0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion:119 Resp: 3120
Ion Ratio Lower Upper
119 100
134 27.0 0.0 53.8
91 22.9 0.0 44.0

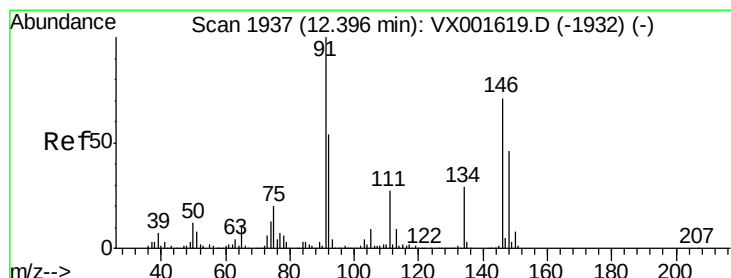
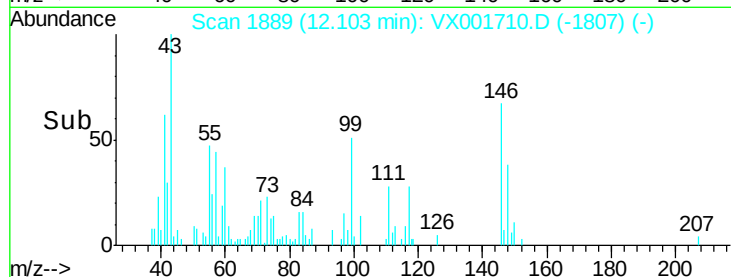
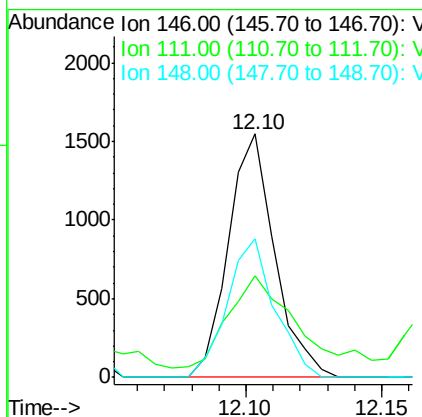
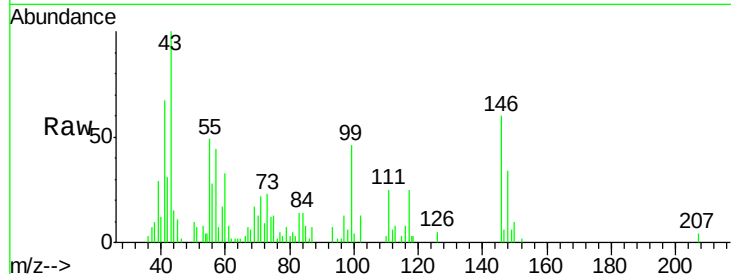




#84
 1,4-Dichlorobenzene
 Concen: 0.24 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

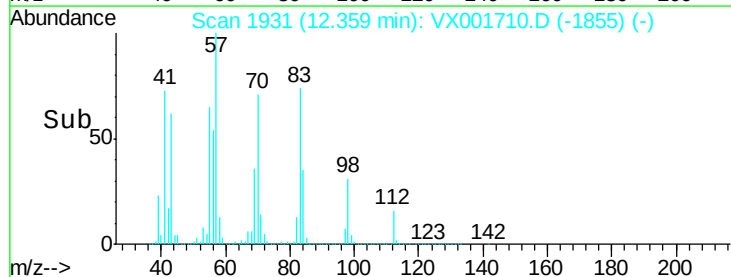
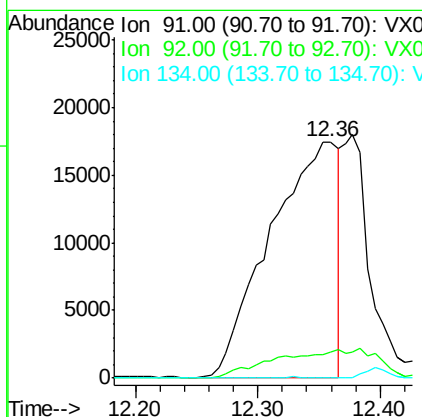
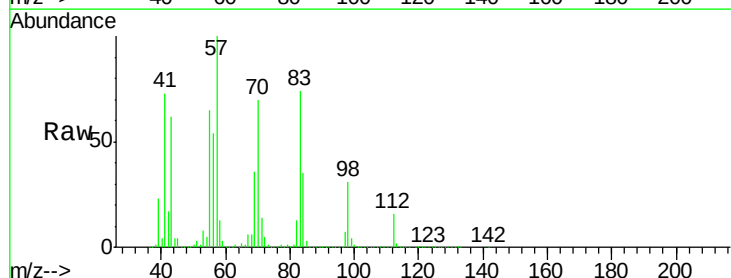
Instrument :
 MSVOA_X
 ClientSampled :
 EFF-WW

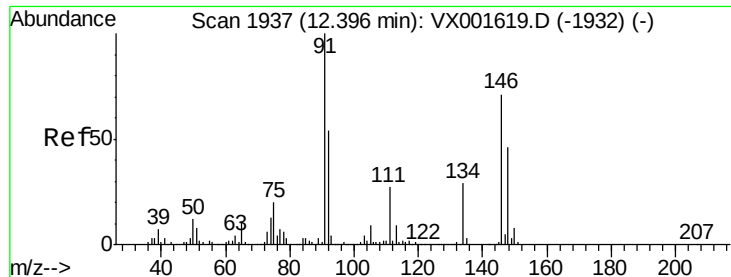
Tgt Ion:146 Resp: 1829
 Ion Ratio Lower Upper
 146 100
 111 52.2 17.4 52.3
 148 58.2 32.5 97.4



#85
 n-Butylbenzene
 Concen: 6.76 ug/l
 RT: 12.36 min Scan# 1931
 Delta R.T. -0.04 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

Tgt Ion: 91 Resp: 67660
 Ion Ratio Lower Upper
 91 100
 92 3.1 0.0 107.8
 134 0.0 0.0 56.8

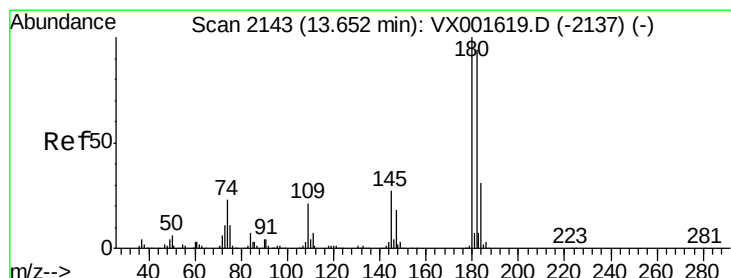
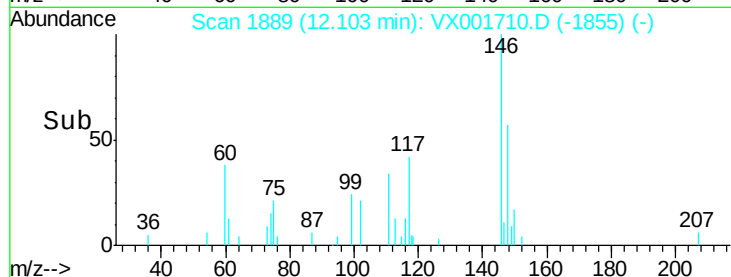
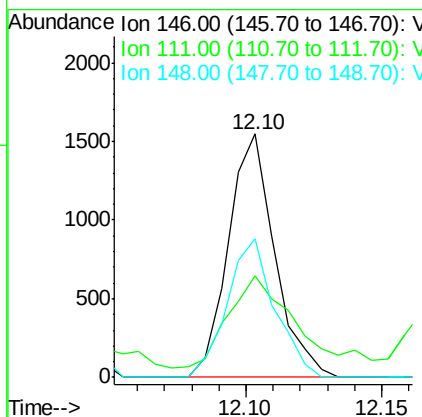
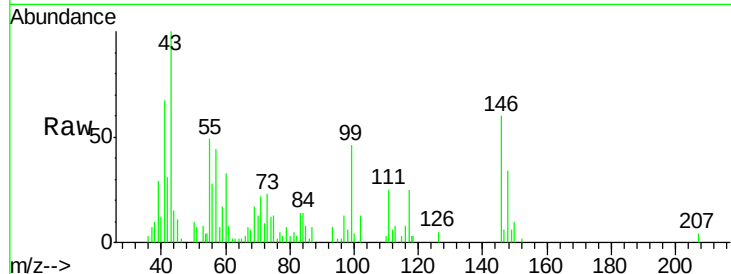




#87
 1,2-Dichlorobenzene
 Concen: 0.24 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. -0.29 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

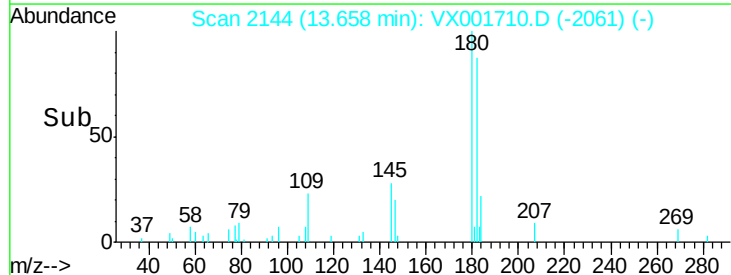
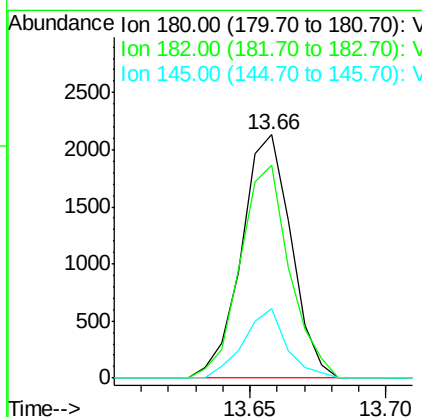
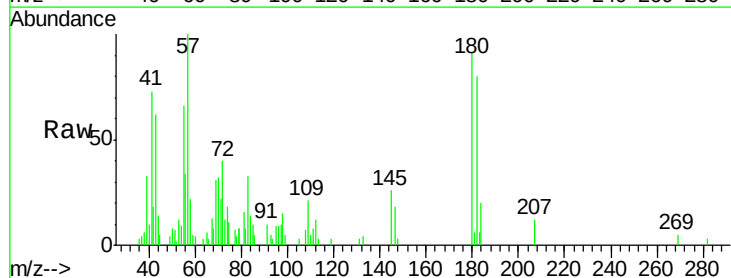
Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

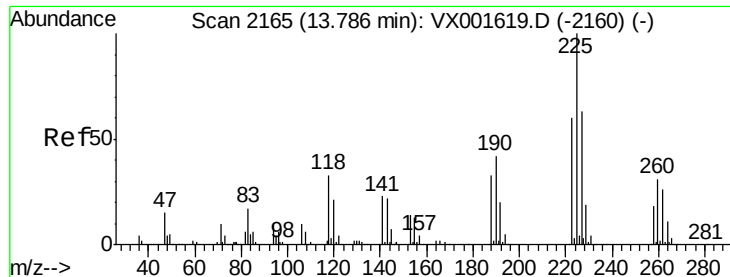
Tgt Ion:146 Resp: 1829
 Ion Ratio Lower Upper
 146 100
 111 52.2 18.7 56.1
 148 58.2 32.1 96.5



#89
 1,2,4-Trichlorobenzene
 Concen: 0.49 ug/l
 RT: 13.66 min Scan# 2144
 Delta R.T. 0.01 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

Tgt Ion:180 Resp: 2698
 Ion Ratio Lower Upper
 180 100
 182 87.2 76.6 115.0
 145 24.9 21.5 32.3

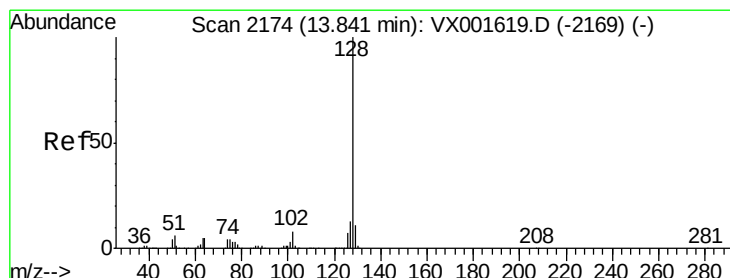
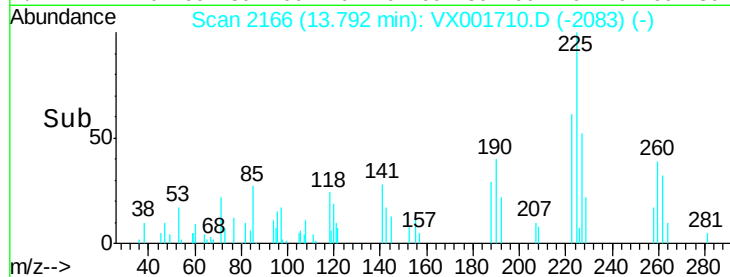
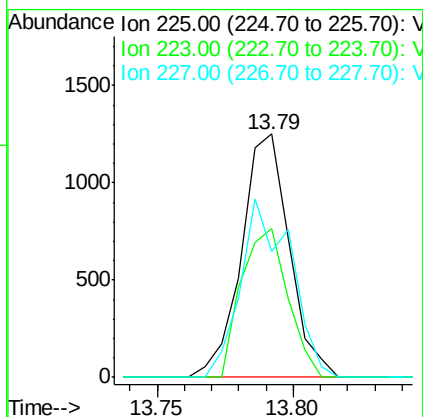
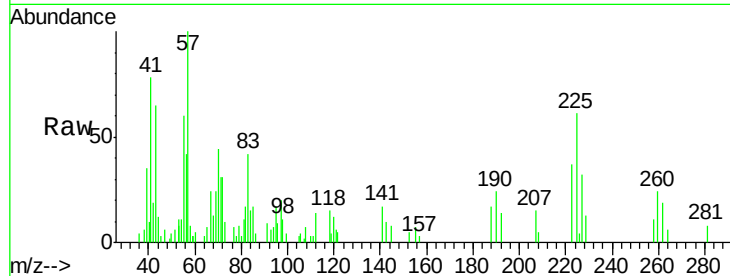




#90
Hexachlorobutadiene
Concen: 0.54 ug/l
RT: 13.79 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

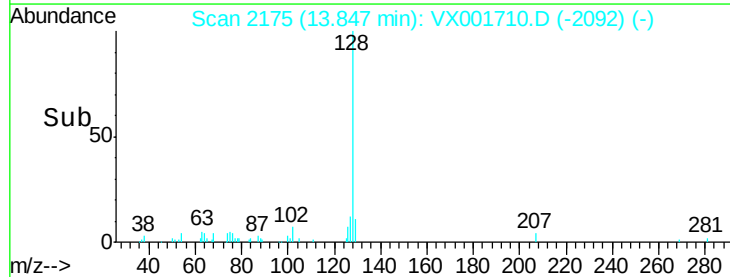
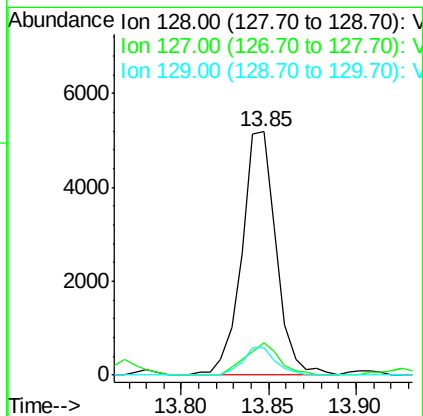
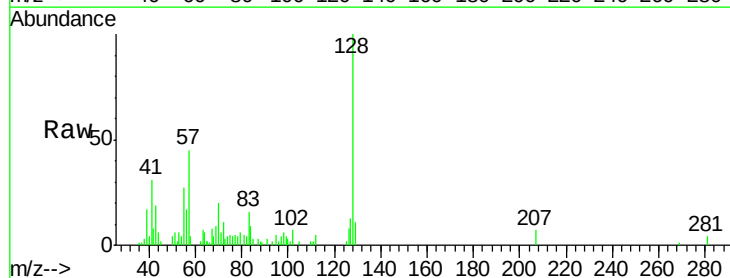
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

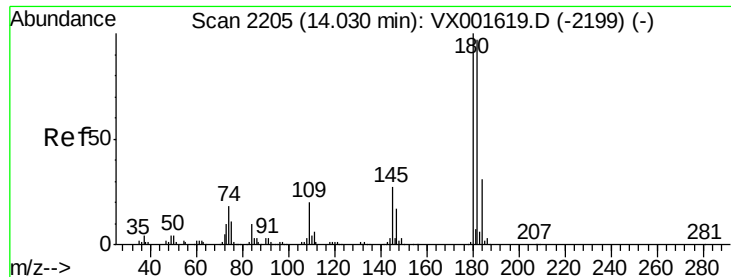
Tgt Ion:	225	Resp:	1527
Ion	Ratio	Lower	Upper
225	100		
223	59.0	0.0	120.2
227	76.2	0.0	126.6



#91
Naphthalene
Concen: 0.43 ug/l
RT: 13.85 min Scan# 2175
Delta R.T. 0.01 min
Lab File: VX001710.D
Acq: 14 May 2018 13:48

Tgt Ion:	128	Resp:	7053
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	10.7	8.8	13.2





#92
 1,2,3-Trichlorobenzene
 Concen: 0.39 ug/l
 RT: 14.03 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VX001710.D
 Acq: 14 May 2018 13:48

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Tgt Ion:	180	Resp:	2248
Ion	Ratio	Lower	Upper
180	100		
182	96.7	0.0	192.2
145	32.4	0.0	56.0

