

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101218\
 Data File : VR026068.D
 Acq On : 12 Oct 2018 18:52
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Oct 13 00:57:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 13 00:51:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	481320	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	418436	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	172470	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	167032	4.40	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.00%
7) Chloroethane-d5	2.62	69	162472	5.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.80%
11) 1,1-Dichloroethene-d2	3.61	63	406277	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.20%
20) 2-Butanone-d5	6.59	46	233586	55.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.40%
24) Chloroform-d	7.20	84	317684	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
26) 1,2-Dichloroethane-d4	7.90	65	144993	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	7.85	84	560568	4.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.60%
36) 1,2-Dichloropropane-d6	8.90	67	167753	4.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.40%
41) Toluene-d8	9.97	98	505533	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.20%
43) trans-1,3-Dichloropropene-	10.24	79	41548	4.88	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.60%
46) 2-Hexanone-d5	10.59	63	196676	60.54	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.08%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	83970	5.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.20%
64) 1,2-Dichlorobenzene-d4	13.52	152	120593	4.37	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	114972	3.930 ug/L	99
3) Chloromethane	2.01	50	192747	4.633 ug/L	100
5) Vinyl chloride	2.17	62	200752	4.848 ug/L	99
6) Bromomethane	2.52	94	126507	4.893 ug/L	93
8) Chloroethane	2.66	64	127807	5.425 ug/L	94
9) Trichlorofluoromethane	2.93	101	136518	2.375 ug/L #	15
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	204089	5.807 ug/L	94
12) 1,1-Dichloroethene	3.63	96	190252	5.236 ug/L	89
13) Acetone	3.70	43	161093	52.526 ug/L	91
14) Carbon disulfide	3.94	76	360151	4.095 ug/L	98
15) Methyl Acetate	4.20	43	47021	5.530 ug/L	99
16) Methylene chloride	4.40	84	176583	5.285 ug/L	94
17) Methyl tert-butyl Ether	4.89	73	184048	4.574 ug/L	98
18) trans-1,2-Dichloroethene	4.88	96	128396	4.273 ug/L	86
19) 1,1-Dichloroethane	5.69	63	263588	4.430 ug/L	96
21) 2-Butanone	6.69	43	197625	46.849 ug/L	98
22) cis-1,2-Dichloroethene	6.68	96	137922	4.561 ug/L #	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

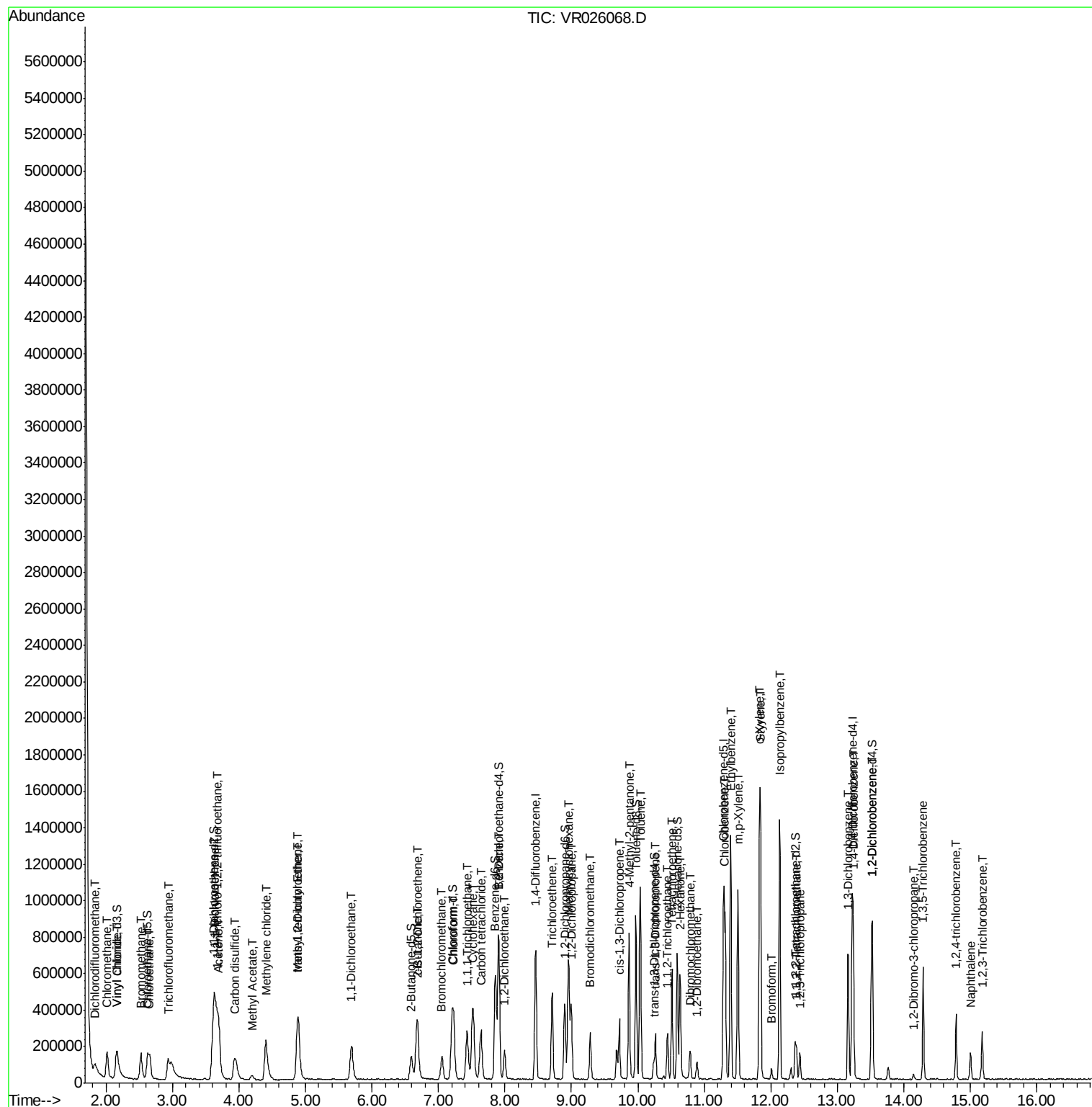
23) Bromochloromethane	7.06	128	38314	4.671	ug/L	91
25) Chloroform	7.23	83	264752	4.570	ug/L	100
27) 1,2-Dichloroethane	7.99	62	136769	4.731	ug/L	98
29) 1,1,1-Trichloroethane	7.43	97	220820	4.693	ug/L	97
30) Cyclohexane	7.52	56	228230	3.882	ug/L	99
31) Carbon tetrachloride	7.64	117	198508	4.872	ug/L	99
33) Benzene	7.91	78	611586	4.358	ug/L	100
34) Trichloroethene	8.71	95	152746	4.130	ug/L	87
35) Methylcyclohexane	8.95	83	233024	4.191	ug/L	97
37) 1,2-Dichloropropane	9.00	63	133323	4.428	ug/L #	98
38) Bromodichloromethane	9.28	83	150412	4.630	ug/L #	97
39) cis-1,3-Dichloropropene	9.72	75	159571	4.727	ug/L	95
40) 4-Methyl-2-pentanone	9.87	43	505276	47.726	ug/L	99
42) Toluene	10.04	91	664251	4.555	ug/L	97
44) trans-1,3-Dichloropropene	10.26	75	110785	5.026	ug/L	96
45) 1,1,2-Trichloroethane	10.45	97	62237	4.570	ug/L	94
47) Tetrachloroethene	10.51	164	99784	4.379	ug/L	96
48) 2-Hexanone	10.63	43	346992	50.059	ug/L	96
49) Dibromochloromethane	10.79	129	66677	4.824	ug/L	99
50) 1,2-Dibromoethane	10.89	107	52639	4.899	ug/L #	92
51) Chlorobenzene	11.32	112	369228	4.773	ug/L	95
52) Ethylbenzene	11.39	91	796167	4.783	ug/L	97
53) m,p-Xylene	11.50	106	281617	4.752	ug/L	91
54) o-Xylene	11.83	106	264469	4.794	ug/L	95
55) Styrene	11.84	104	428701	4.993	ug/L	94
56) Isopropylbenzene	12.13	105	759155	4.990	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	64400	4.908	ug/L #	95
59) 1,2,3-Trichloropropane	12.43	75	46392	4.750	ug/L	95
61) Bromoform	12.01	173	21499	4.123	ug/L #	92
62) 1,3-Dichlorobenzene	13.16	146	214796	4.261	ug/L	92
63) 1,4-Dichlorobenzene	13.24	146	232537	4.510	ug/L	95
65) 1,2-Dichlorobenzene	13.53	146	182644	4.510	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.14	75	6244	3.667	ug/L #	73
67) 1,3,5-Trichlorobenzene	14.29	180	133495	4.446	ug/L	96
68) 1,2,4-trichlorobenzene	14.79	180	78290	4.090	ug/L	94
69) Naphthalene	15.00	128	95330	3.903	ug/L	97
70) 1,2,3-Trichlorobenzene	15.18	180	59441	4.476	ug/L	97

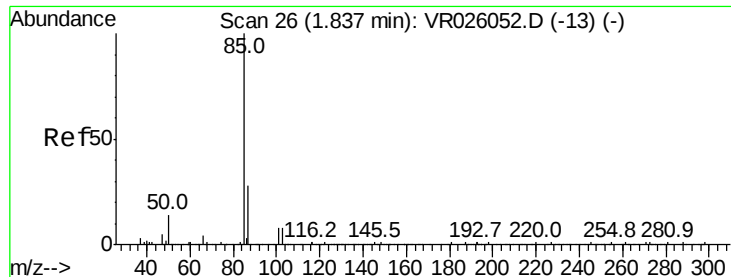
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 3.930 ug/L

RT: 1.83 min Scan# 24

Delta R.T. -0.01 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

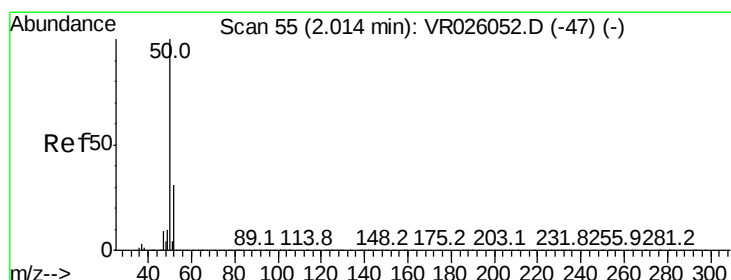
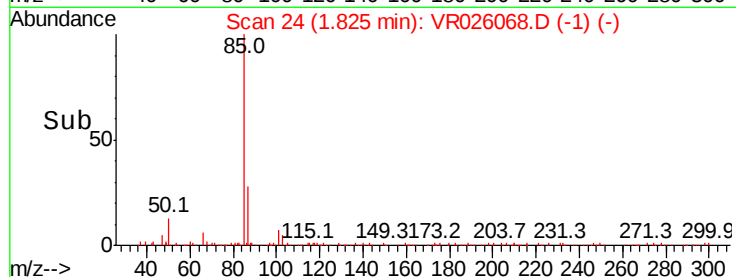
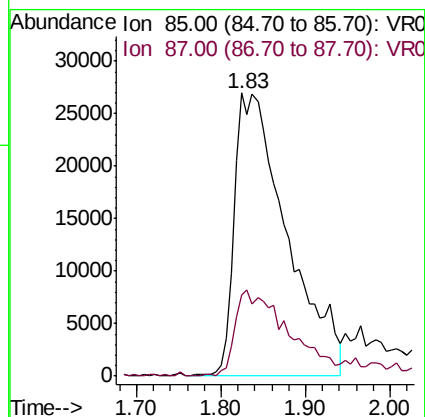
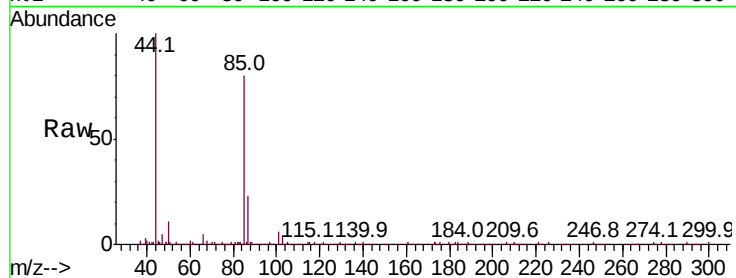
ClientSampleId :

Tot Ion: 85 Resp: 114972

Ion Ratio Lower Upper

85 100

87 30.6 25.1 37.7



#3

Chloromethane

Concen: 4.633 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.00 min

Lab File: VR026068.D

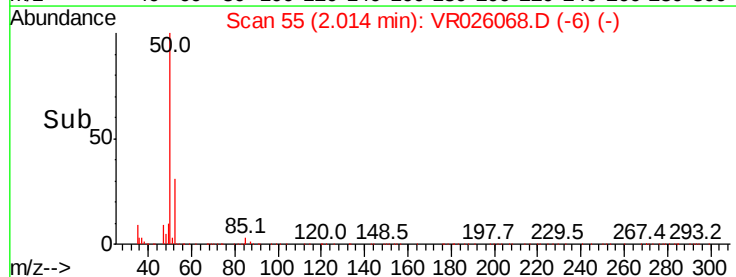
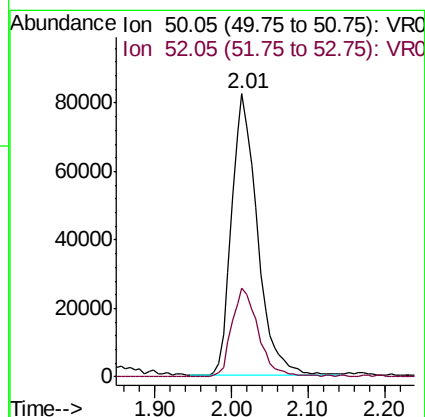
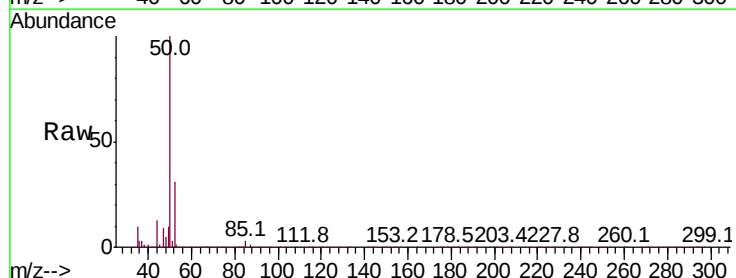
Acq: 12 Oct 2018 18:52

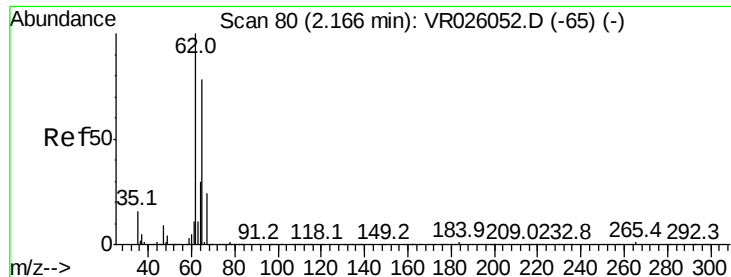
Tgt Ion: 50 Resp: 192747

Ion Ratio Lower Upper

50 100

52 31.4 22.1 41.1





#5

Vinyl chloride

Concen: 4.848 ug/L

RT: 2.17 min Scan# 80

Delta R.T. -0.00 min

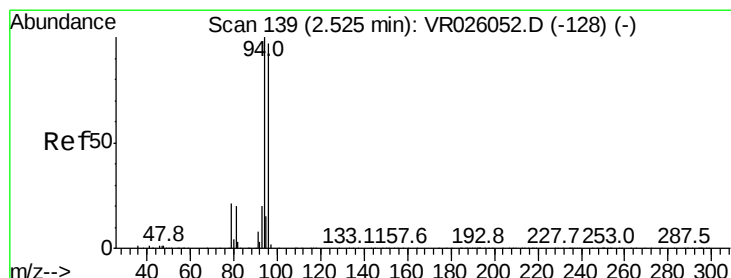
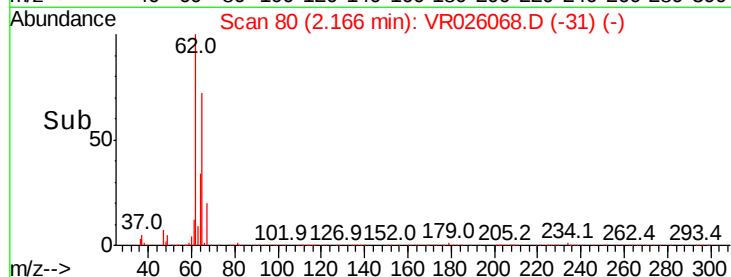
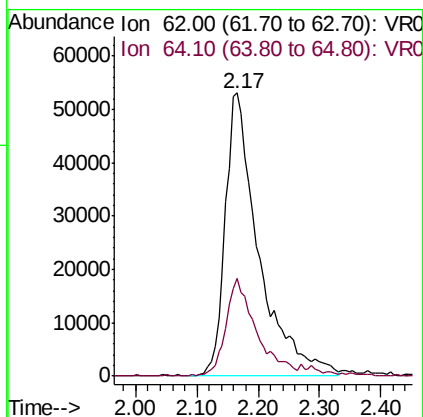
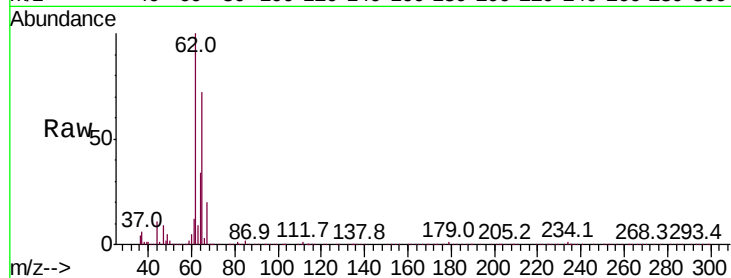
Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 62 Resp: 200752

Ion	Ratio	Lower	Upper
62	100		
64	34.4	23.5	43.7



#6

Bromomethane

Concen: 4.893 ug/L

RT: 2.52 min Scan# 139

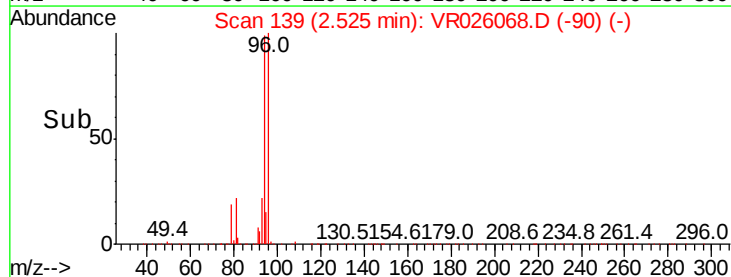
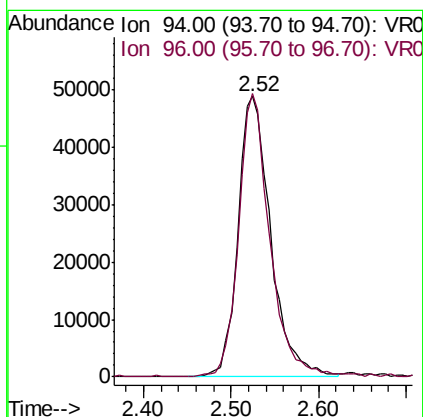
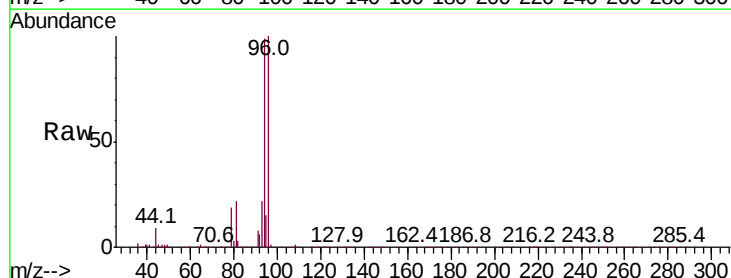
Delta R.T. -0.00 min

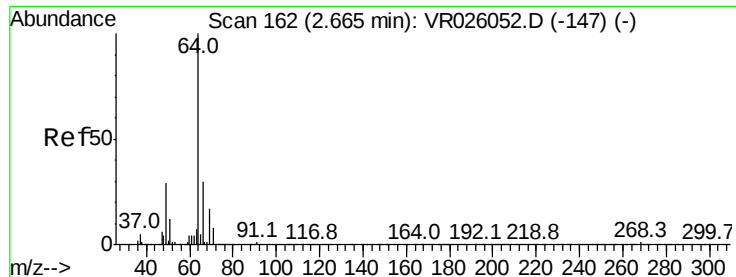
Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Tgt Ion: 94 Resp: 126507

Ion	Ratio	Lower	Upper
94	100		
96	100.9	66.1	122.8





#8

Chloroethane

Concen: 5.425 ug/L

RT: 2.66 min Scan# 161

Delta R.T. -0.01 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

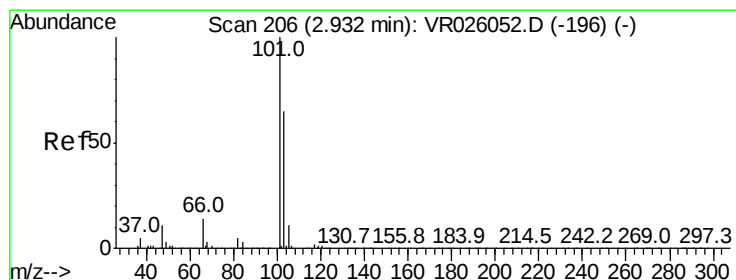
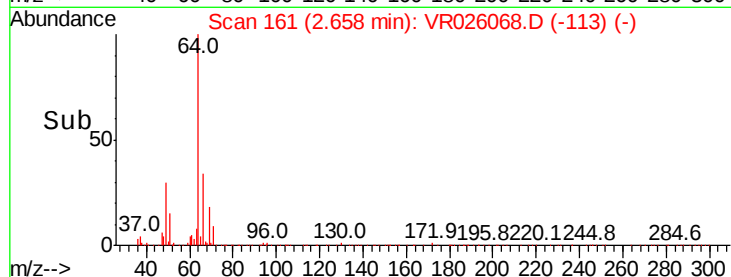
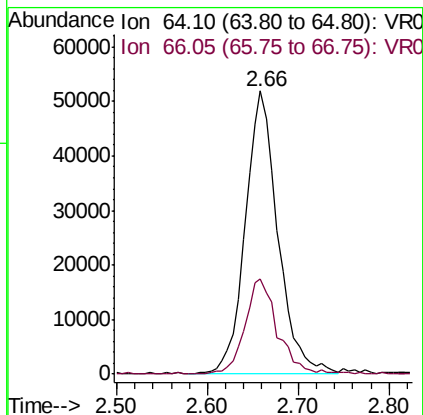
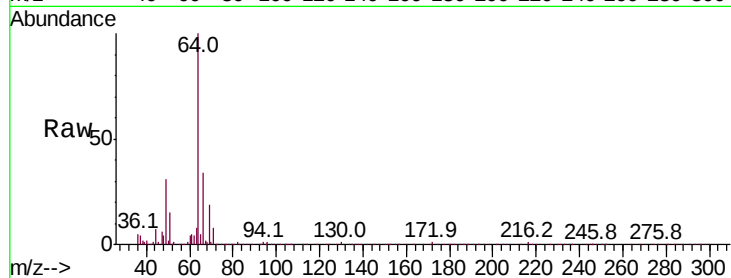
ClientSampleId :

Tot Ion: 64 Resp: 127807

Ion Ratio Lower Upper

64 100

66 33.7 21.3 39.5



#9

Trichlorofluoromethane

Concen: 2.375 ug/L

RT: 2.93 min Scan# 206

Delta R.T. -0.00 min

Lab File: VR026068.D

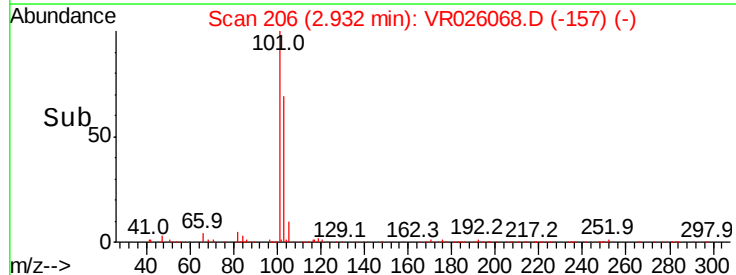
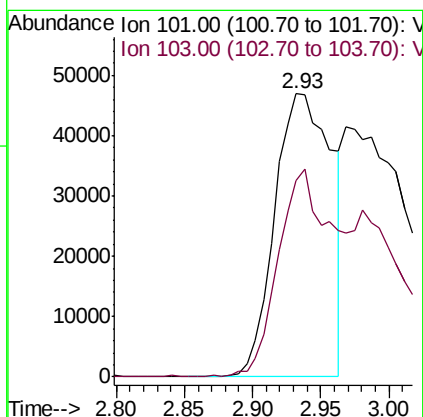
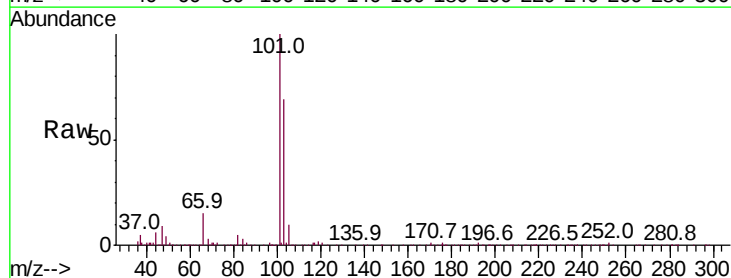
Acq: 12 Oct 2018 18:52

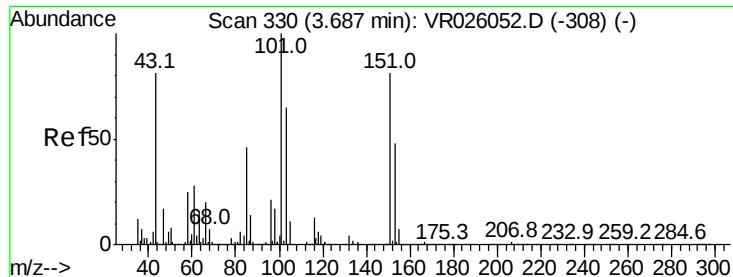
Tgt Ion: 101 Resp: 136518

Ion Ratio Lower Upper

101 100

103 71.9 22.1 33.1#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.807 ug/L

RT: 3.69 min Scan# 330

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

ClientSampleId :

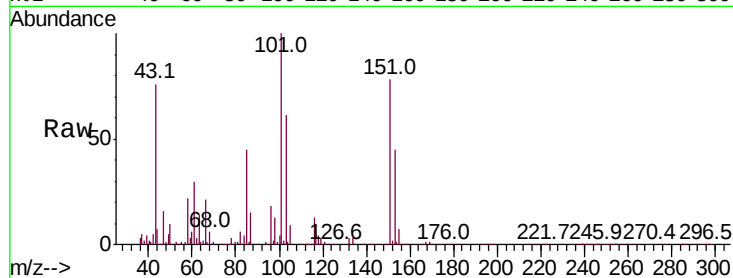
Tot Ion:101 Resp: 204089

Ion Ratio Lower Upper

101 100

85 48.4 38.2 57.4

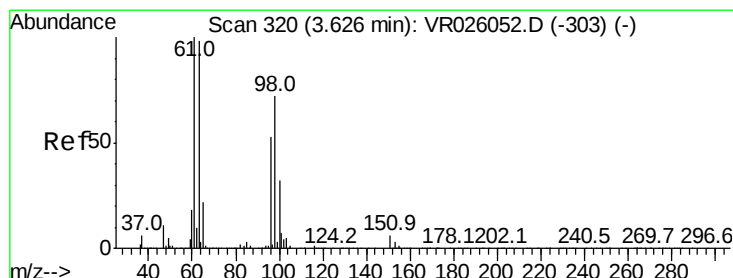
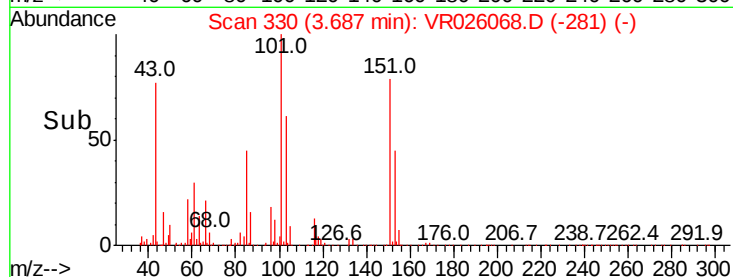
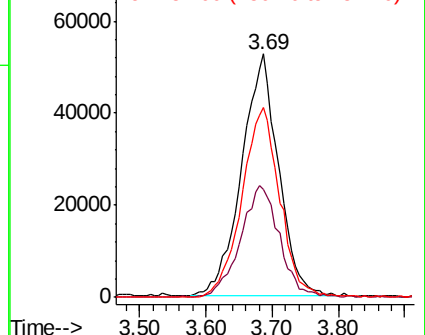
151 80.2 58.4 87.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.236 ug/L

RT: 3.63 min Scan# 321

Delta R.T. 0.01 min

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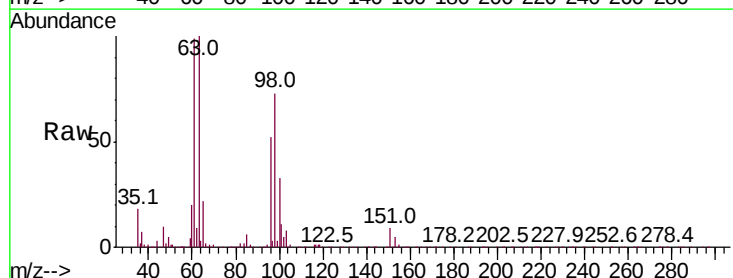
Tgt Ion: 96 Resp: 190252

Ion Ratio Lower Upper

96 100

61 190.7 145.0 269.4

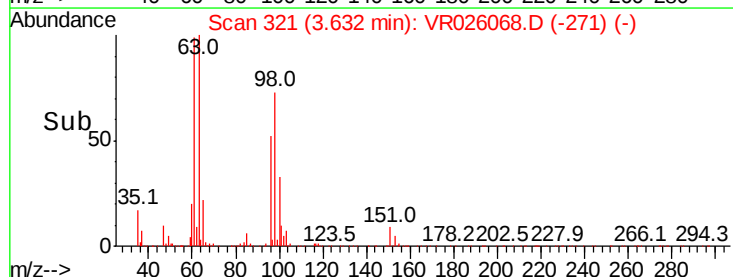
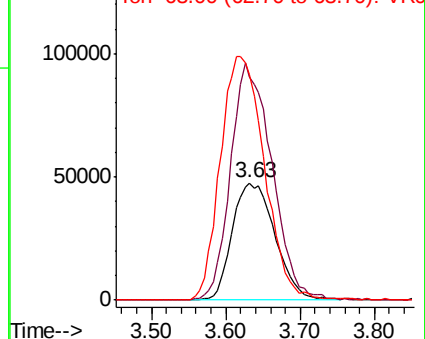
63 192.4 123.8 230.0

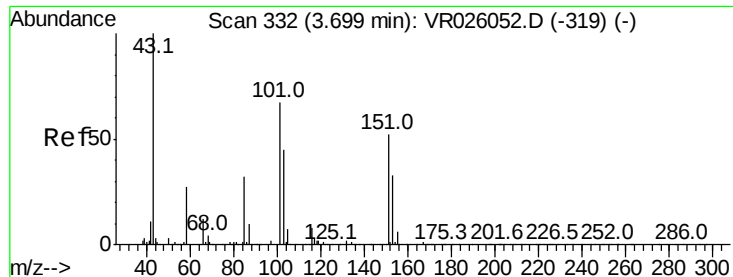


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0

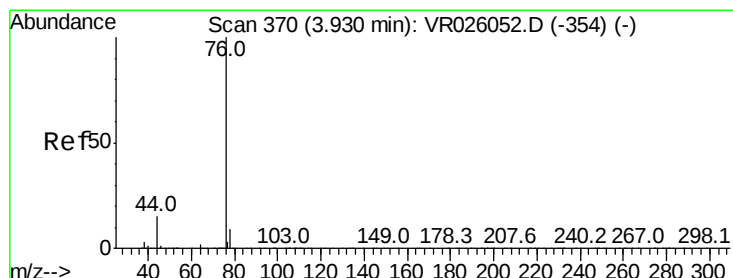
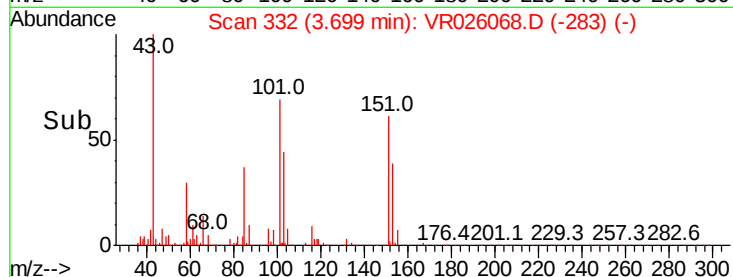
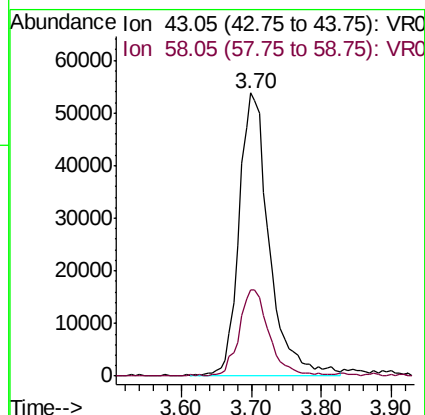
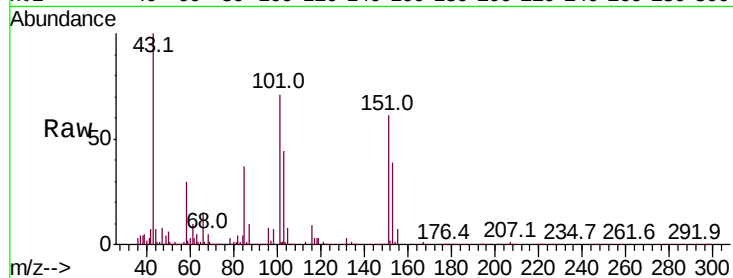




#13
Acetone
Concen: 52.526 ug/L
RT: 3.70 min Scan# 332
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

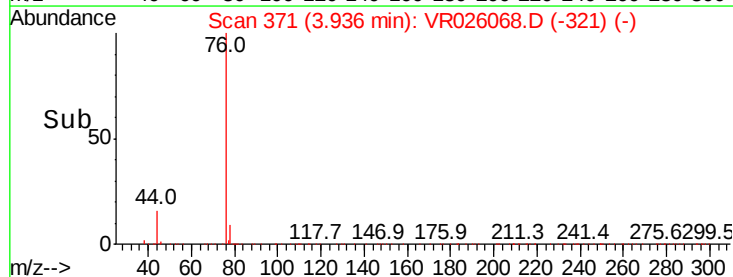
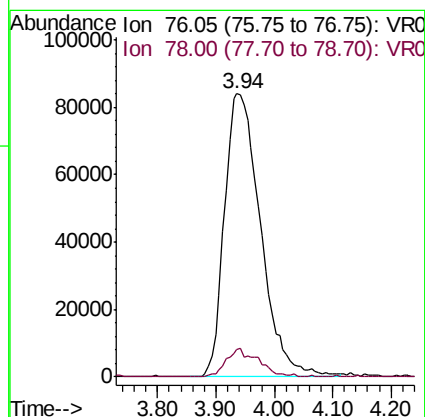
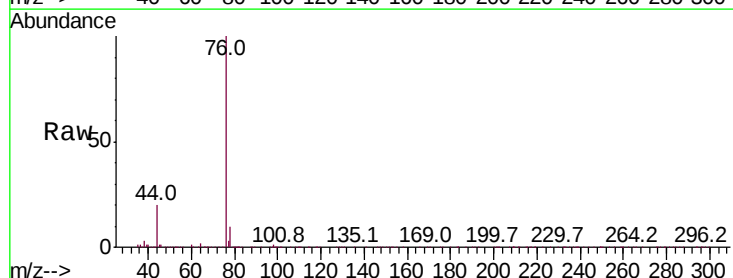
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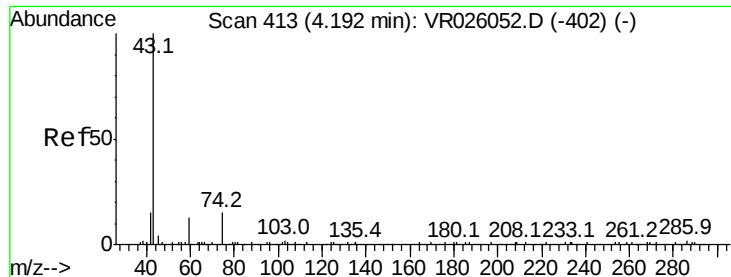
Tot Ion: 43 Resp: 161093
Ion Ratio Lower Upper
43 100
58 30.3 0.0 51.4



#14
Carbon disulfide
Concen: 4.095 ug/L
RT: 3.94 min Scan# 371
Delta R.T. 0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion: 76 Resp: 360151
Ion Ratio Lower Upper
76 100
78 9.6 7.0 10.6

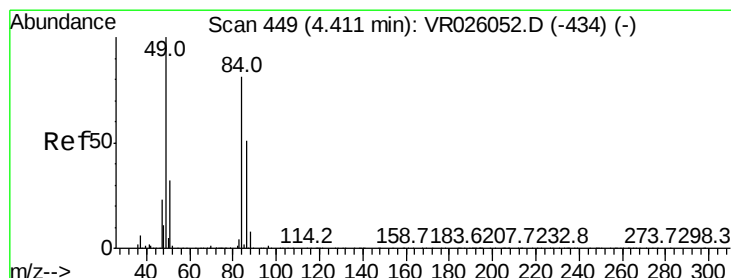
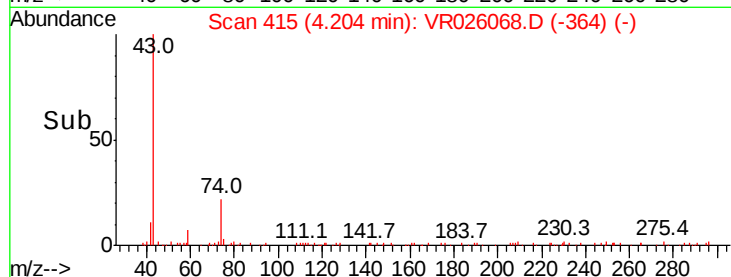
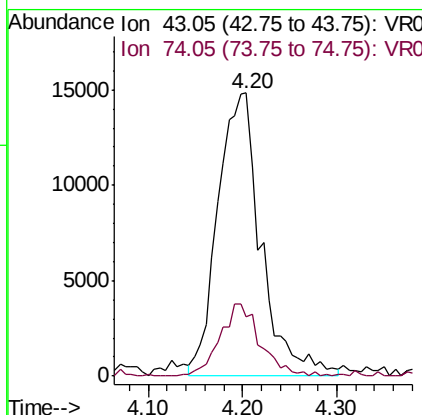
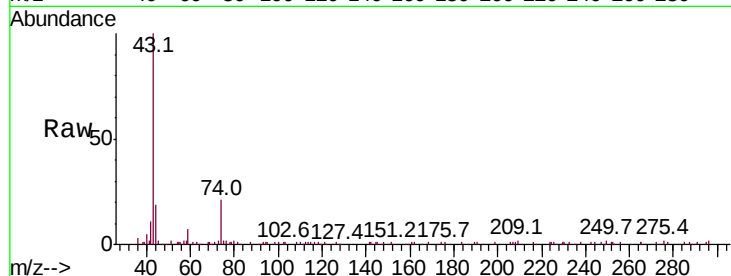




#15
Methvl Acetate
Concen: 5.530 ug/L
RT: 4.20 min Scan# 415
Delta R.T. 0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

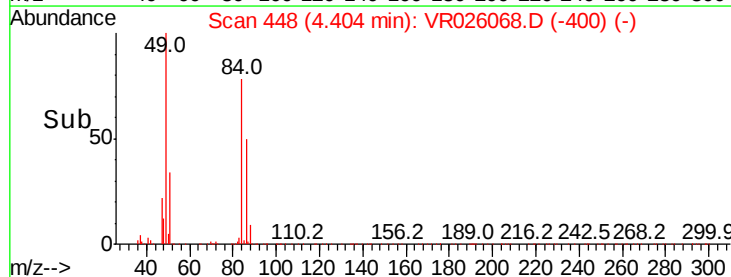
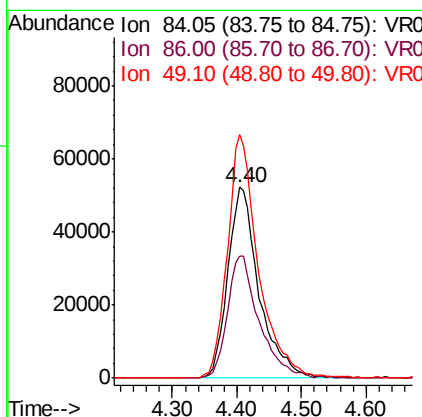
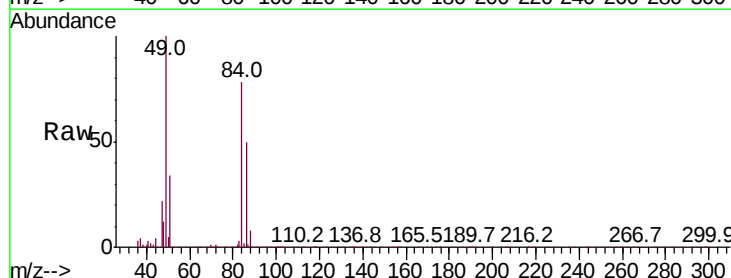
Instrument :
MSVOA_R
ClientSampleId :

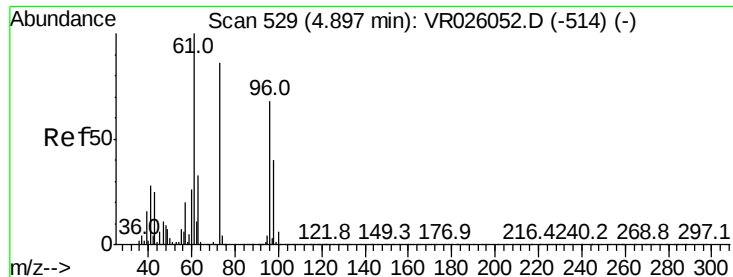
Tot Ion: 43 Resp: 47021
Ion Ratio Lower Upper
43 100
74 24.0 19.0 28.4



#16
Methylene chloride
Concen: 5.285 ug/L
RT: 4.40 min Scan# 448
Delta R.T. -0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion: 84 Resp: 176583
Ion Ratio Lower Upper
84 100
86 63.9 43.1 80.1
49 127.6 95.5 177.3





#17

Methvl tert-butvl Ether

Concen: 4.574 ug/L

RT: 4.89 min Scan# 528

Delta R.T. -0.01 min

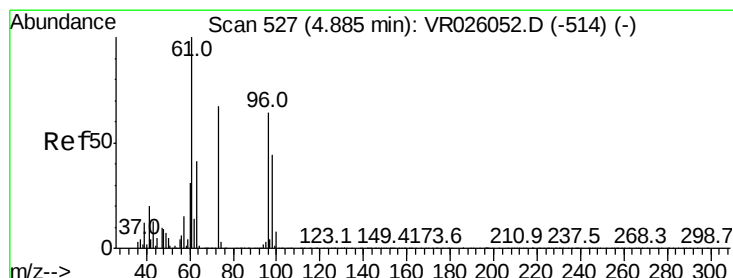
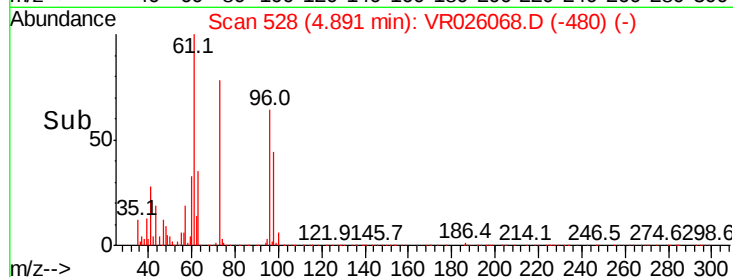
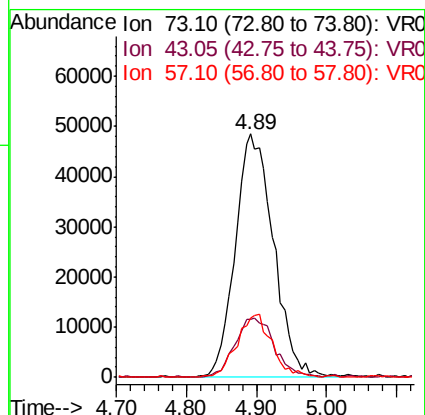
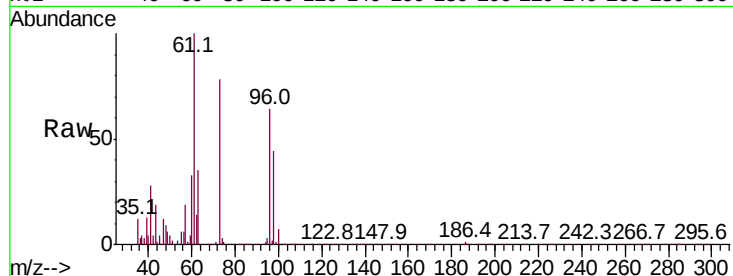
Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 73 Resp: 184048

Ion	Ratio	Lower	Upper
73	100		
43	24.4	19.8	29.8
57	23.9	17.9	26.9



#18

trans-1,2-Dichloroethene

Concen: 4.273 ug/L

RT: 4.88 min Scan# 526

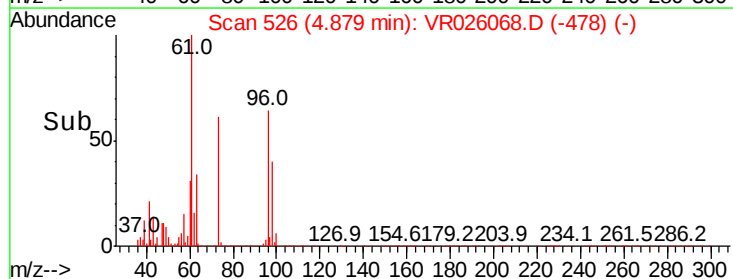
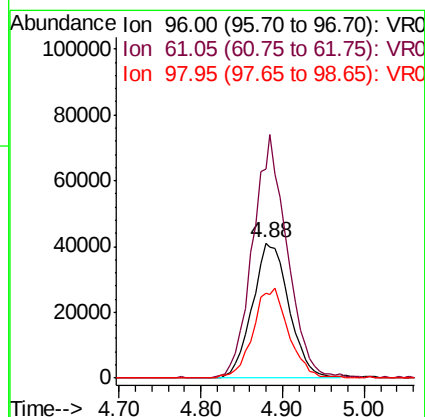
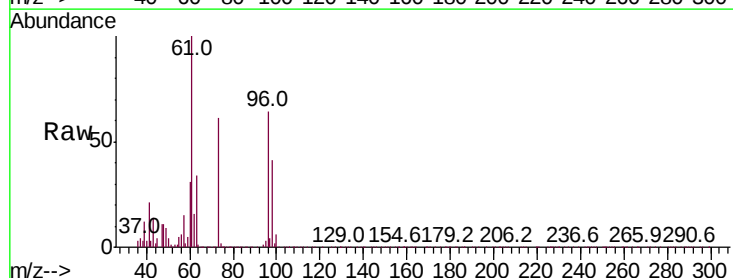
Delta R.T. -0.01 min

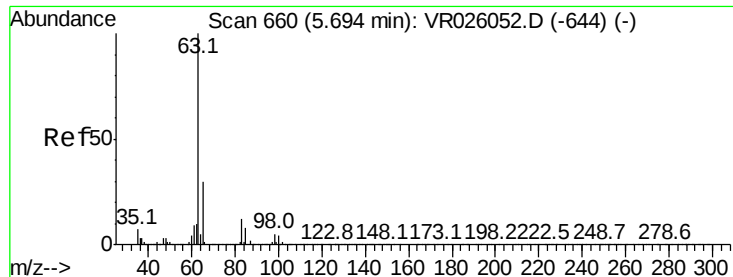
Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Tgt Ion: 96 Resp: 128396

Ion	Ratio	Lower	Upper
96	100		
61	155.4	127.4	236.6
98	63.0	43.8	81.3

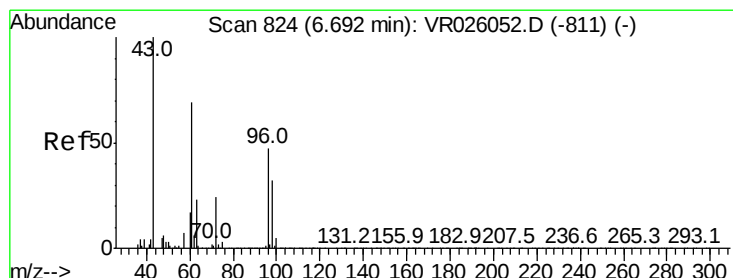
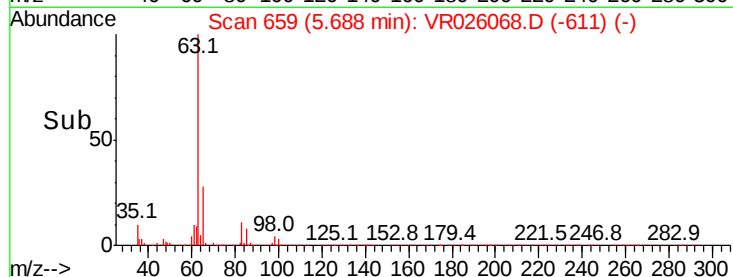
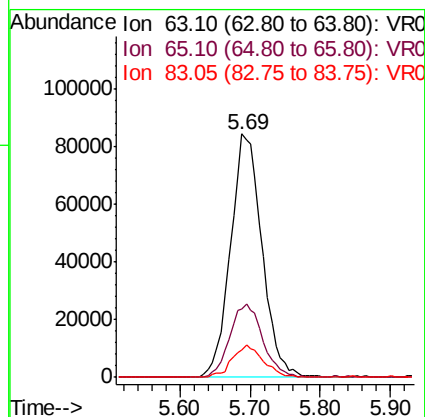
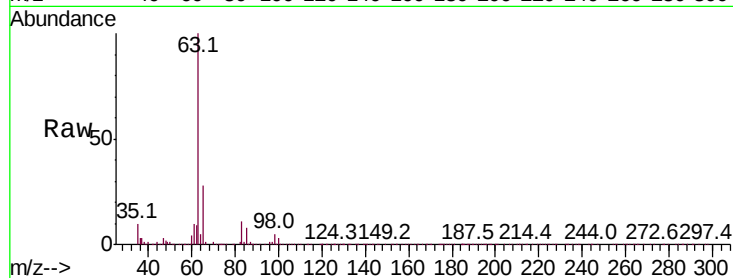




#19
 1,1-Dichloroethane
 Concen: 4.430 ug/L
 RT: 5.69 min Scan# 659
 Delta R.T. -0.01 min
 Lab File: VR026068.D
 Acq: 12 Oct 2018 18:52

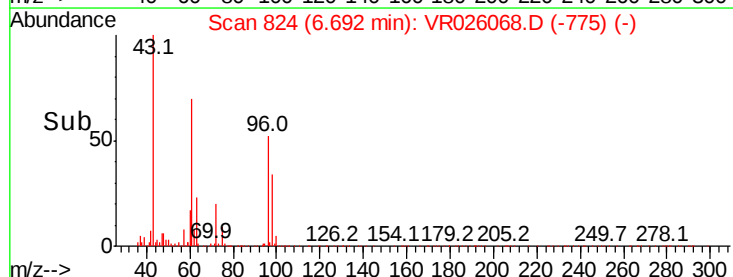
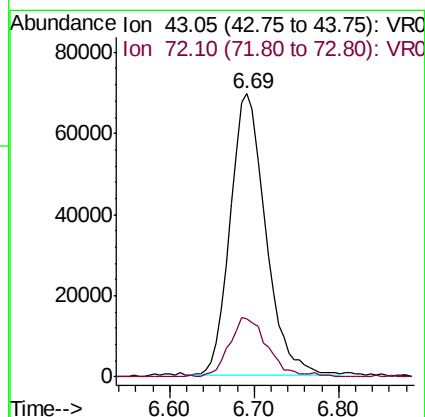
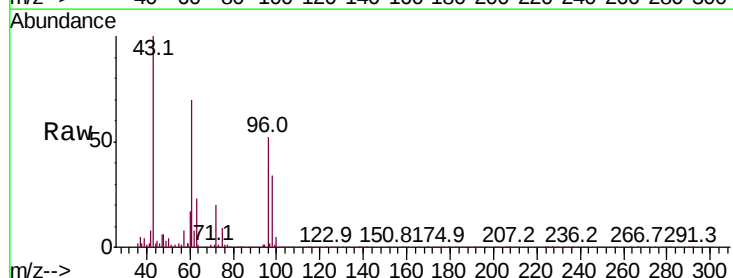
Instrument :
 MSVOA_R
 ClientSampled :

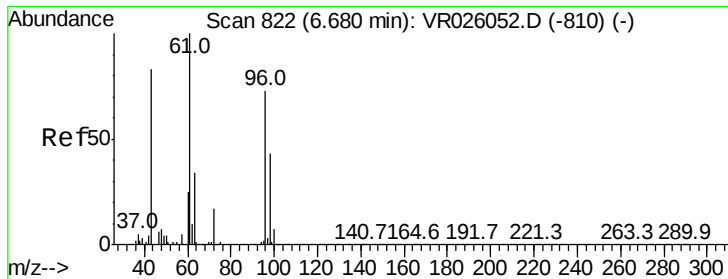
Tot Ion: 63 Resp: 263588
 Ion Ratio Lower Upper
 63 100
 65 27.9 21.1 39.1
 83 11.2 8.9 16.5



#21
 2-Butanone
 Concen: 46.849 ug/L
 RT: 6.69 min Scan# 824
 Delta R.T. -0.00 min
 Lab File: VR026068.D
 Acq: 12 Oct 2018 18:52

Tgt Ion: 43 Resp: 197625
 Ion Ratio Lower Upper
 43 100
 72 23.0 11.9 35.7



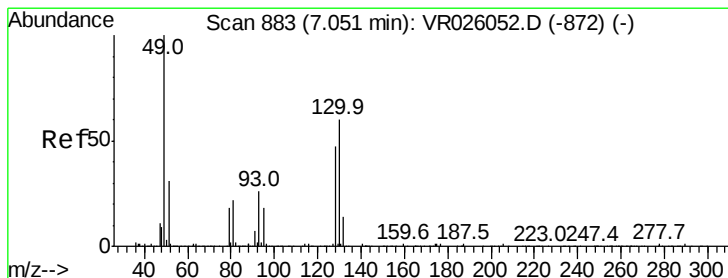
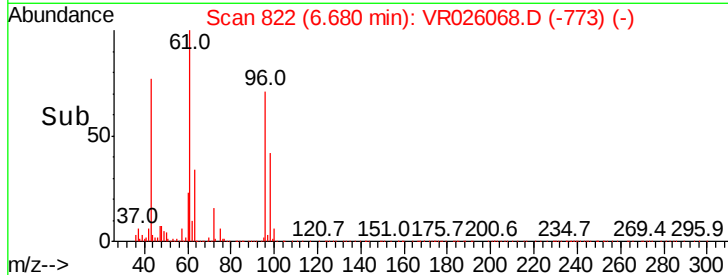
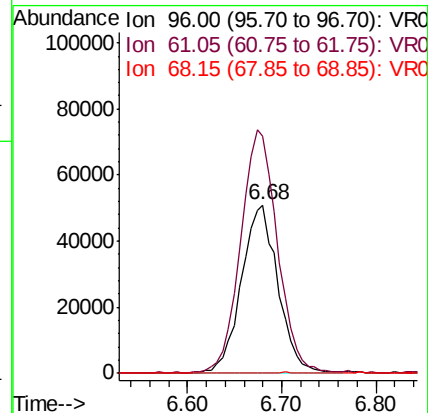
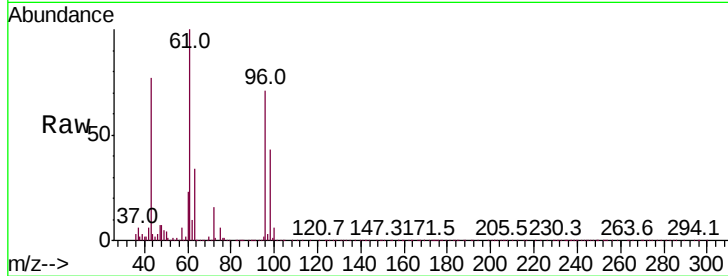


#22

cis-1,2-Dichloroethene
Concen: 4.561 ug/L
RT: 6.68 min Scan# 822
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Instrument :
MSVOA_R
ClientSampled :

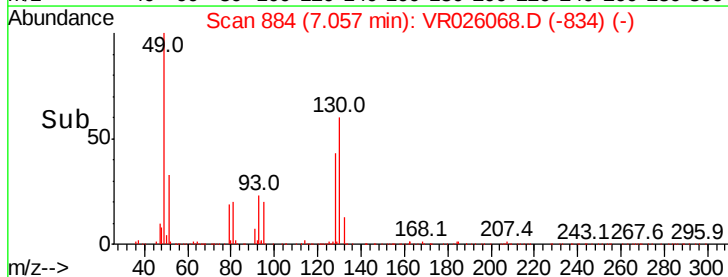
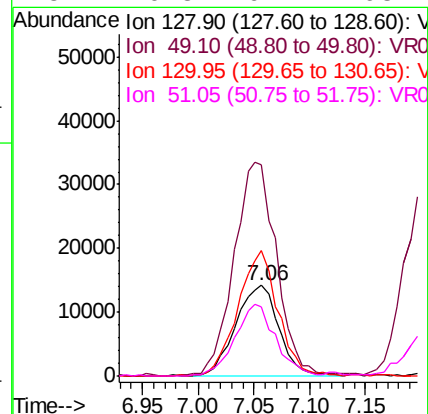
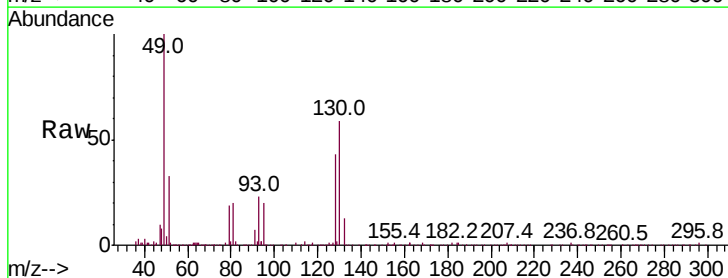
Tot Ion: 96 Resp: 137922
Ion Ratio Lower Upper
96 100
61 140.9 108.7 201.9
68 0.0 0.1 0.1#

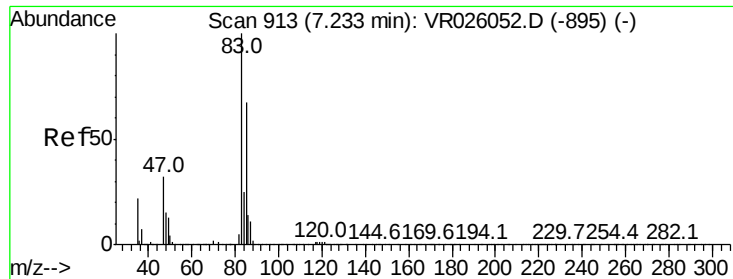


#23

Bromochloromethane
Concen: 4.671 ug/L
RT: 7.06 min Scan# 884
Delta R.T. 0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion: 128 Resp: 38314
Ion Ratio Lower Upper
128 100
49 233.0 175.0 325.0
130 138.2 85.6 159.0
51 76.8 62.2 93.2

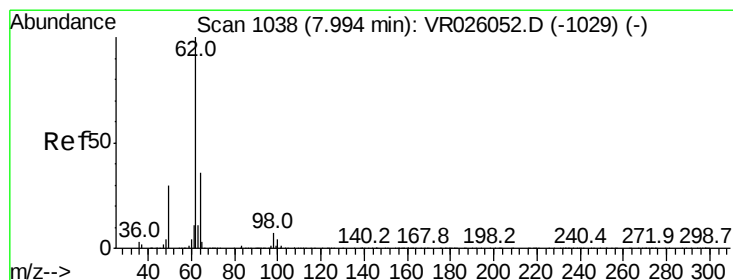
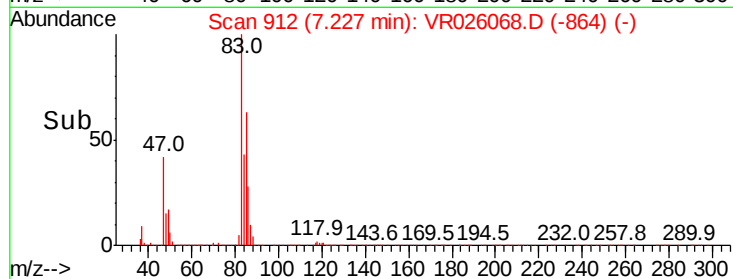
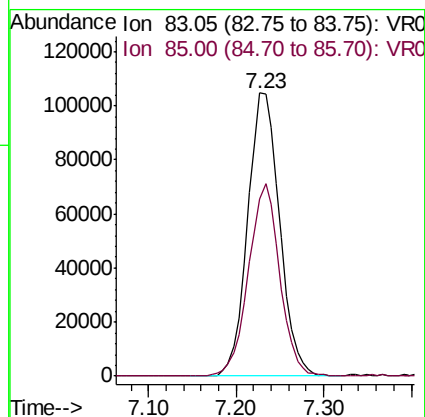
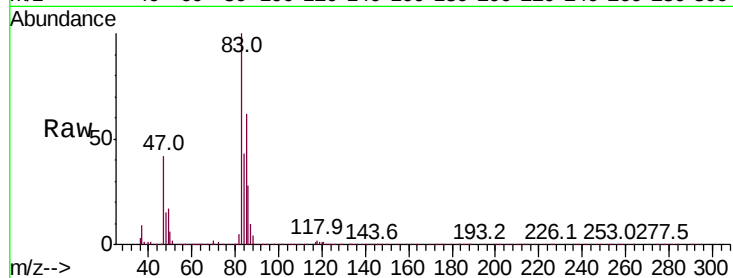




#25
Chloroform
Concen: 4.570 ug/L
RT: 7.23 min Scan# 912
Delta R.T. -0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

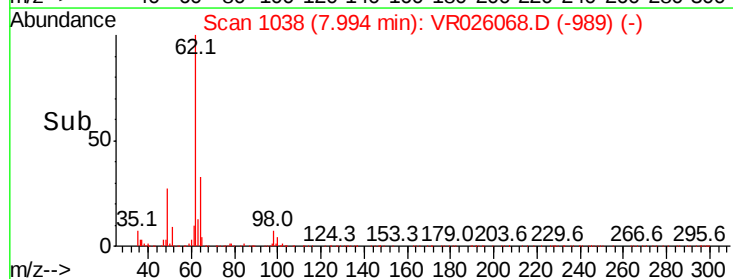
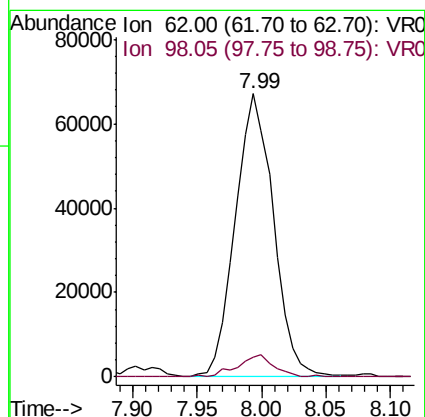
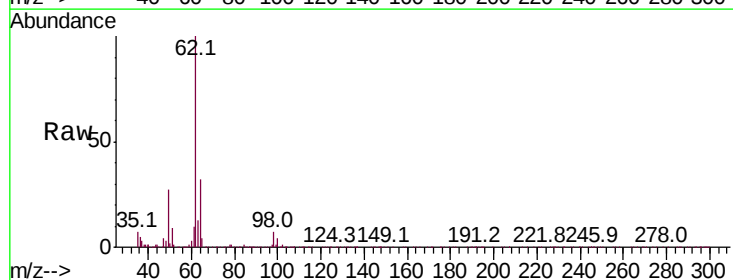
Instrument :
MSVOA_R
ClientSampled :

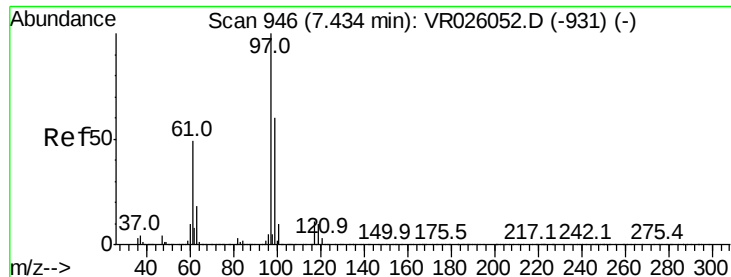
Tot Ion: 83 Resp: 264752
Ion Ratio Lower Upper
83 100
85 62.4 43.8 81.4



#27
1,2-Dichloroethane
Concen: 4.731 ug/L
RT: 7.99 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion: 62 Resp: 136769
Ion Ratio Lower Upper
62 100
98 7.2 5.2 7.8

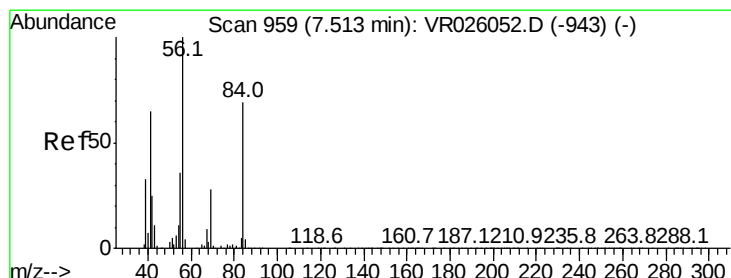
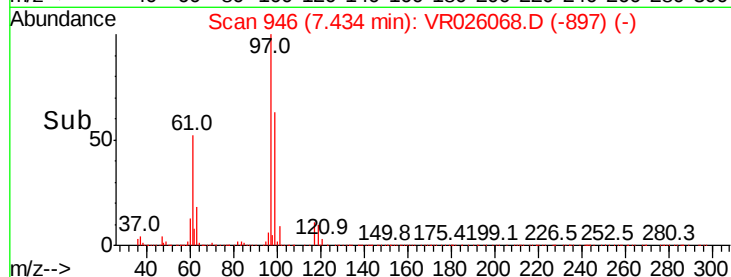
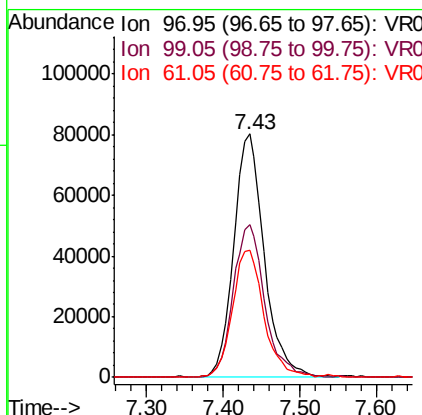
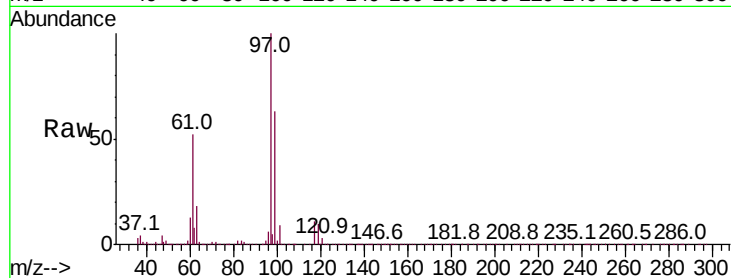




#29
1,1,1-Trichloroethane
Concen: 4.693 ug/L
RT: 7.43 min Scan# 946
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

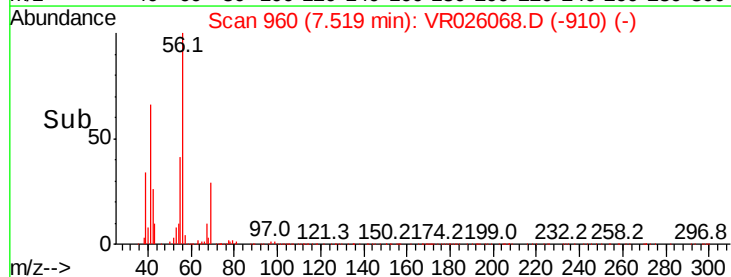
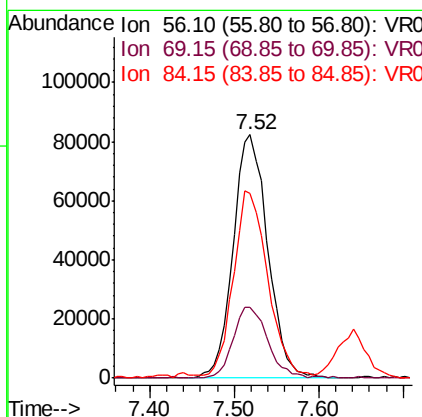
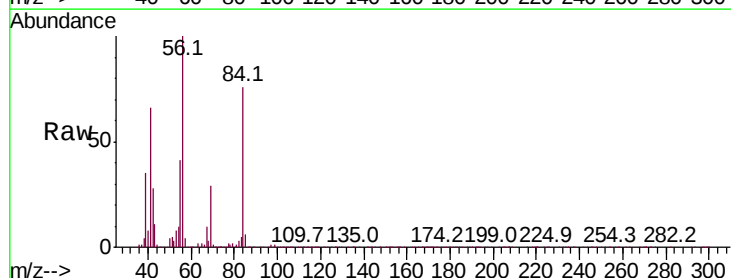
Instrument :
MSVOA_R
ClientSampleId :

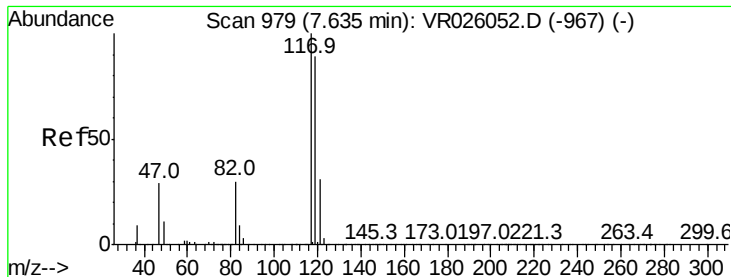
Tot Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.0	76.6
61	54.5	41.6	62.4



#30
Cyclohexane
Concen: 3.882 ug/L
RT: 7.52 min Scan# 960
Delta R.T. 0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.1	24.8	37.2
84	74.6	59.8	89.8





#31

Carbon tetrachloride

Concen: 4.872 ug/L

RT: 7.64 min Scan# 980

Delta R.T. 0.01 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

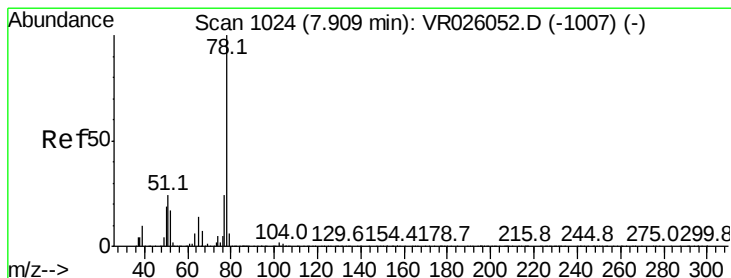
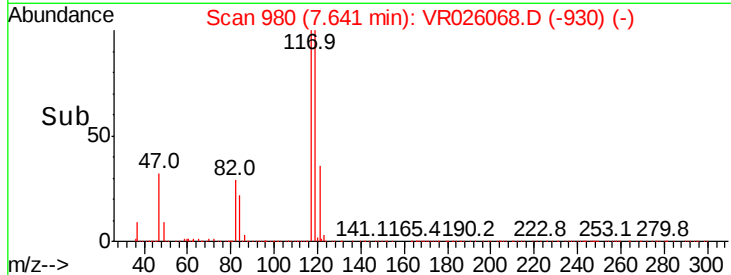
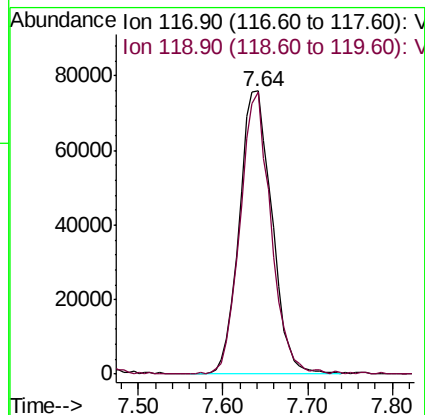
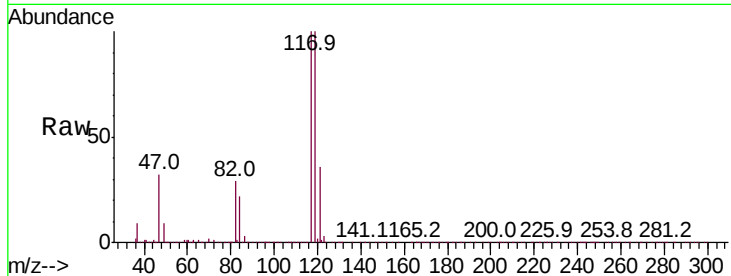
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion:117 Resp: 198508

Ion Ratio Lower Upper

117 100

119 93.8 75.6 113.4



#33

Benzene

Concen: 4.358 ug/L

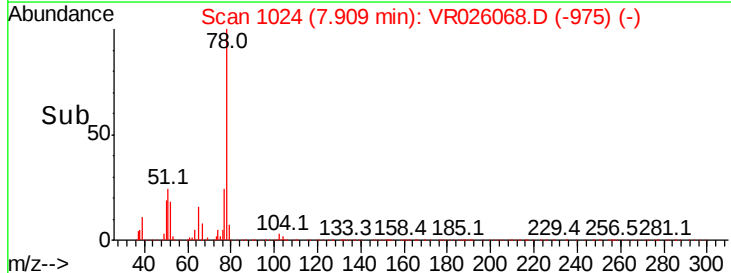
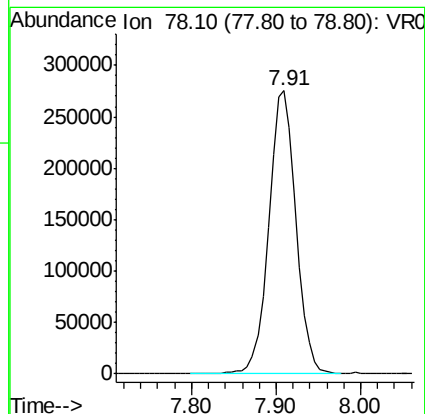
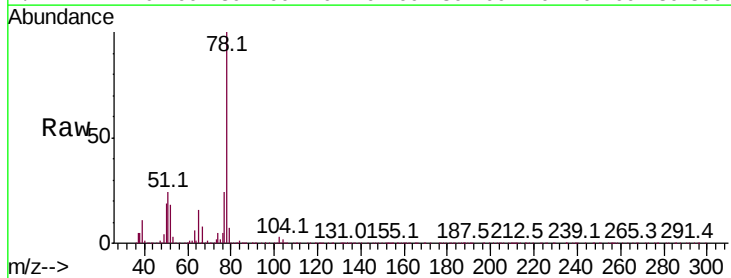
RT: 7.91 min Scan# 1024

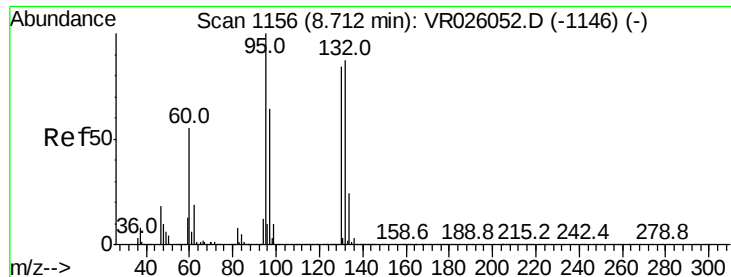
Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Tgt Ion: 78 Resp: 611586

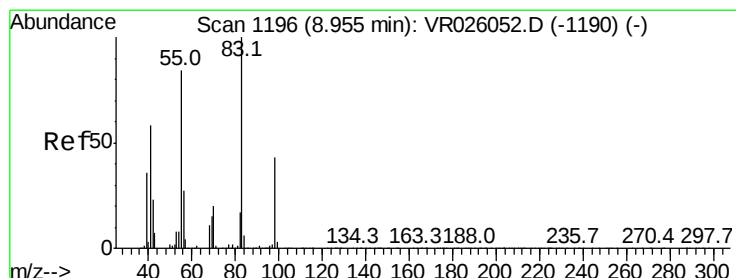
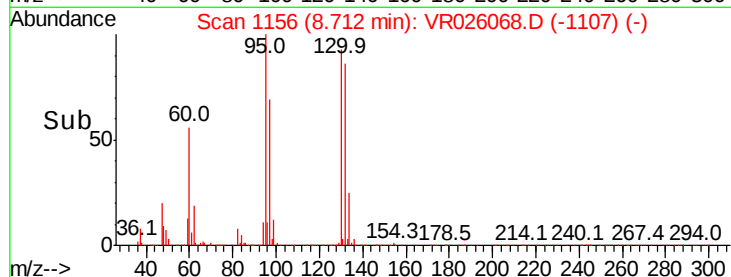
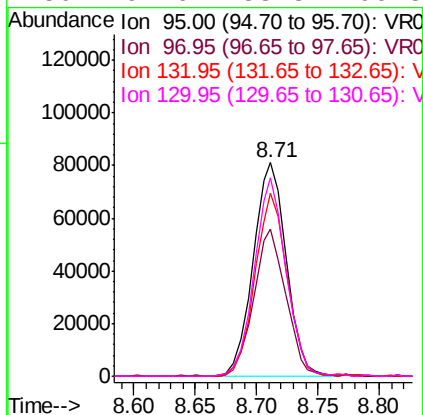
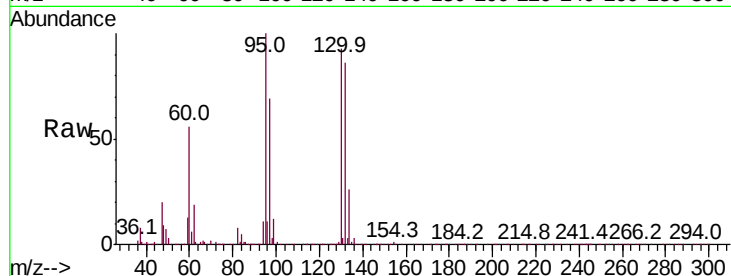




#34
 Trichloroethene
 Concen: 4.130 ug/L
 RT: 8.71 min Scan# 1156
 Delta R.T. -0.00 min
 Lab File: VR026068.D
 Acq: 12 Oct 2018 18:52

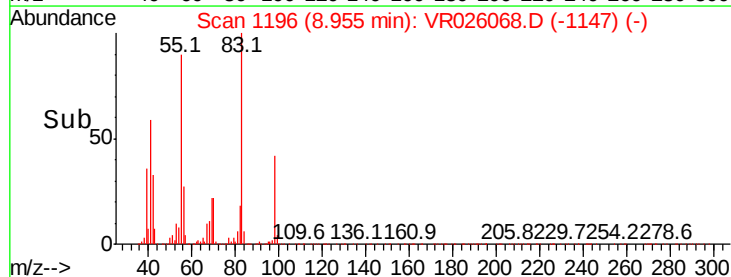
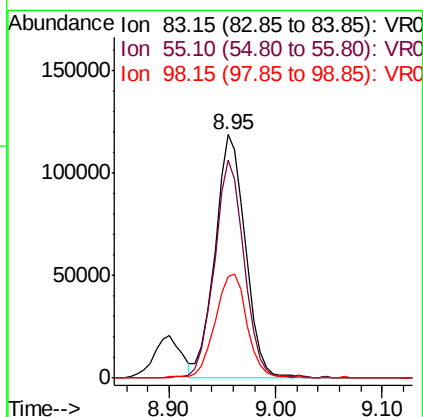
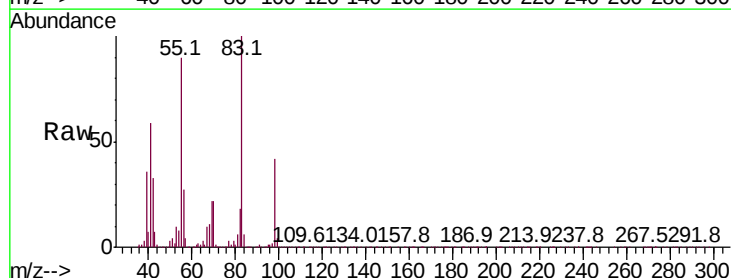
Instrument :
 MSVOA_R
 ClientSampleID :

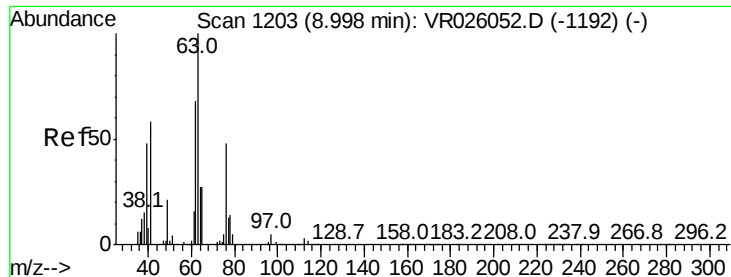
Tot Ion:	95	Resp:	152746
Ion	Ratio	Lower	Upper
95	100		
97	69.2	43.9	81.5
132	85.7	53.3	98.9
130	92.6	53.8	99.8



#35
 Methylcyclohexane
 Concen: 4.191 ug/L
 RT: 8.95 min Scan# 1196
 Delta R.T. -0.00 min
 Lab File: VR026068.D
 Acq: 12 Oct 2018 18:52

Tgt Ion:	83	Resp:	233024
Ion	Ratio	Lower	Upper
83	100		
55	87.5	71.8	107.6
98	45.4	34.2	51.4





#37

1,2-Dichloropropane

Concen: 4.428 ug/L

RT: 9.00 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

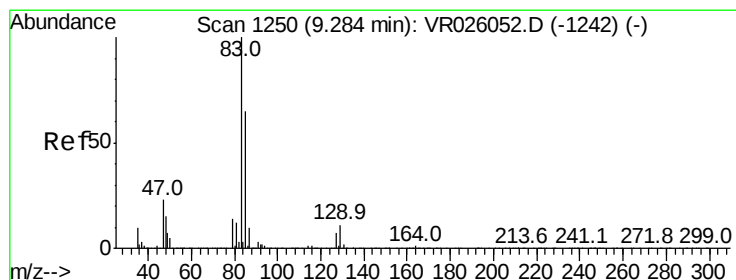
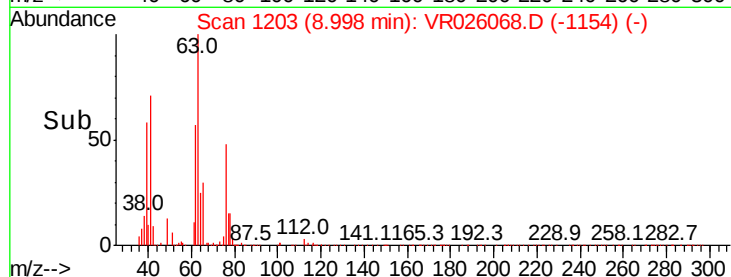
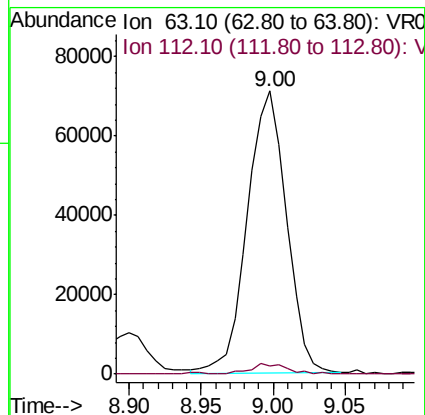
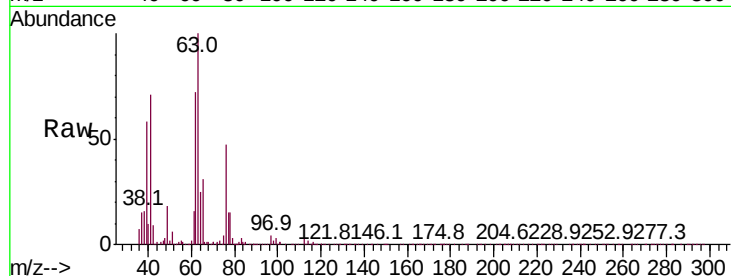
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 63 Resp: 133323

Ion Ratio Lower Upper

63 100

112 3.8 2.5 3.7#



#38

Bromodichloromethane

Concen: 4.630 ug/L

RT: 9.28 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

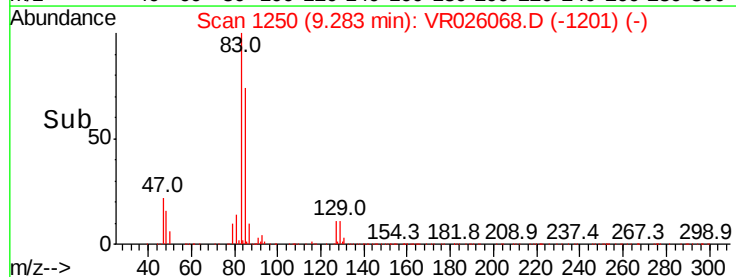
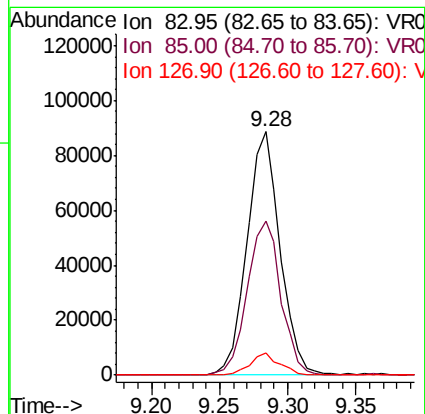
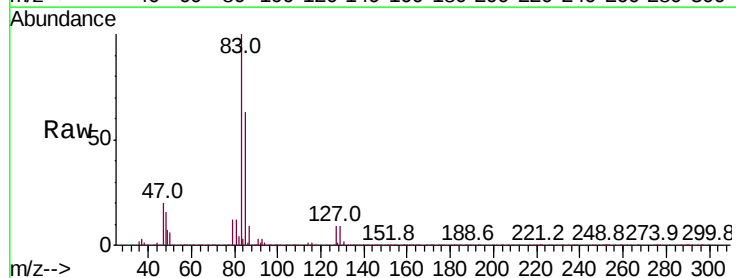
Tgt Ion: 83 Resp: 150412

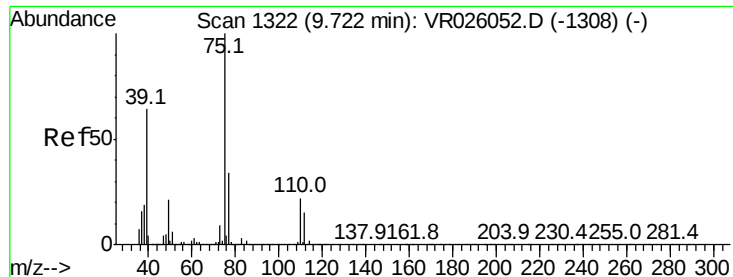
Ion Ratio Lower Upper

83 100

85 63.4 42.8 79.4

127 9.0 5.6 8.4#



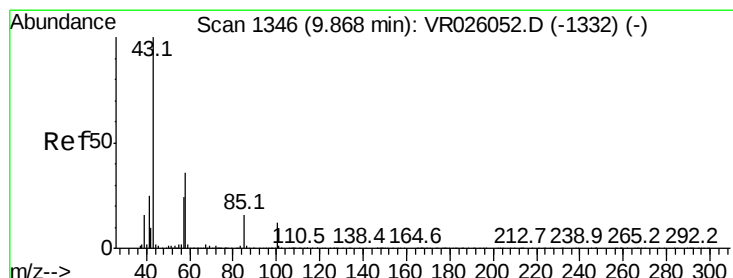
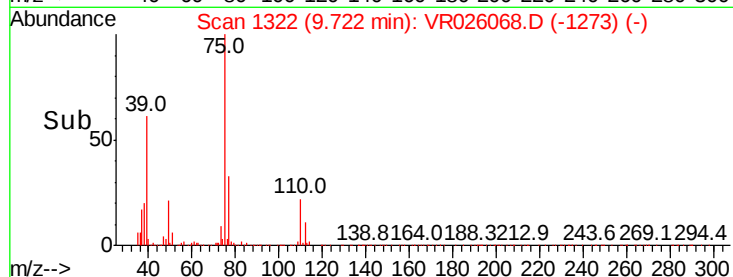
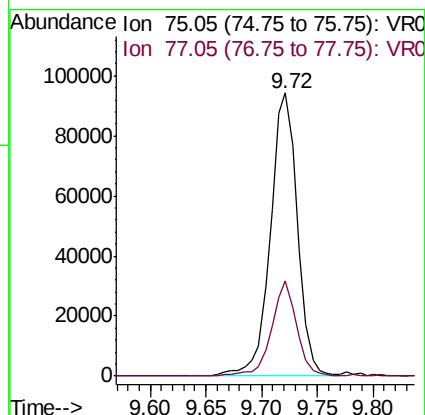
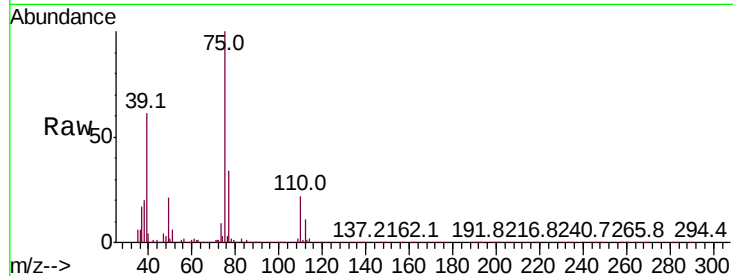


#39

cis-1,3-Dichloropropene
Concen: 4.727 ug/L
RT: 9.72 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Instrument :
MSVOA_R
ClientSampleId :

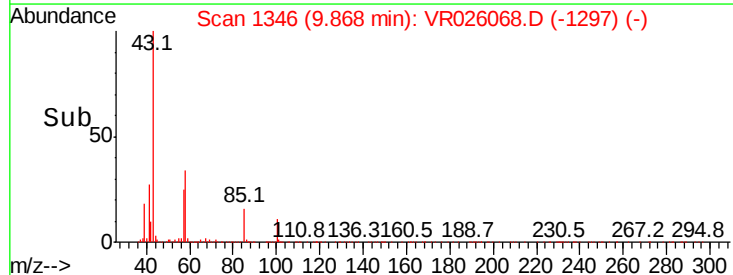
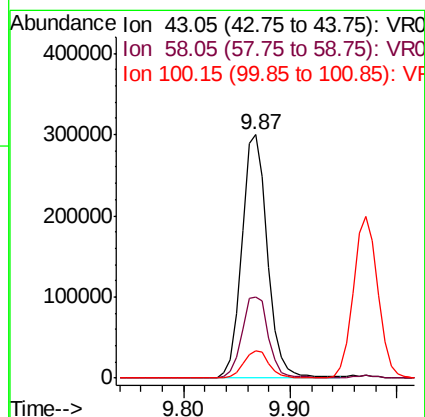
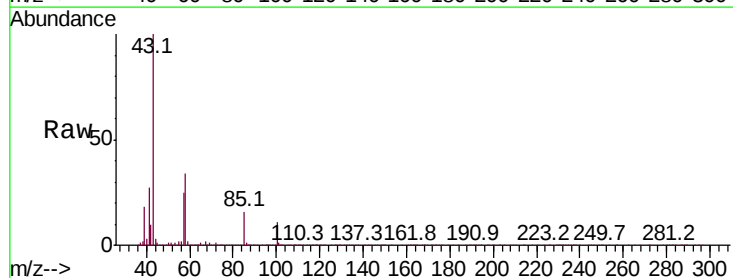
Tot Ion: 75 Resp: 159571
Ion Ratio Lower Upper
75 100
77 33.5 21.5 39.9

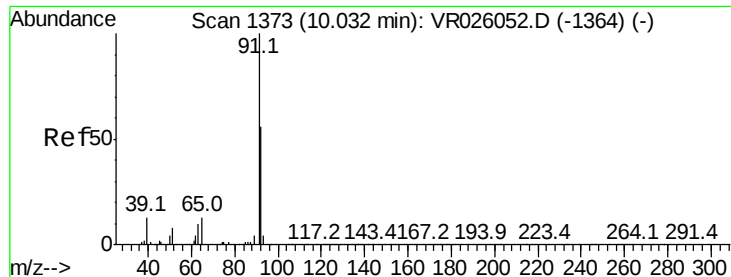


#40

4-Methyl-2-pentanone
Concen: 47.726 ug/L
RT: 9.87 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion: 43 Resp: 505276
Ion Ratio Lower Upper
43 100
58 34.8 28.6 43.0
100 11.4 9.0 13.4





#42

Toluene

Concen: 4.555 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.01 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

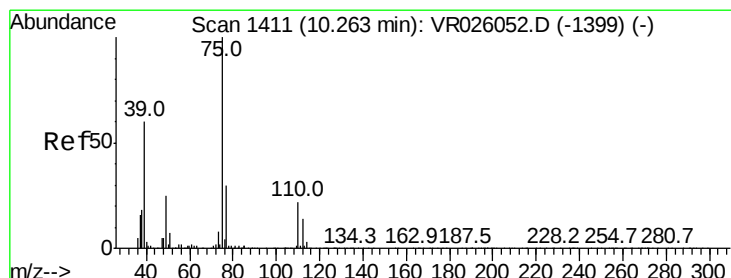
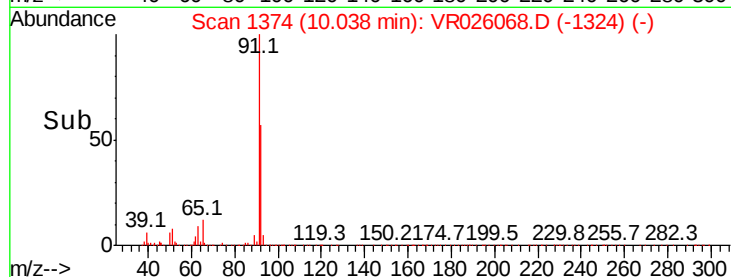
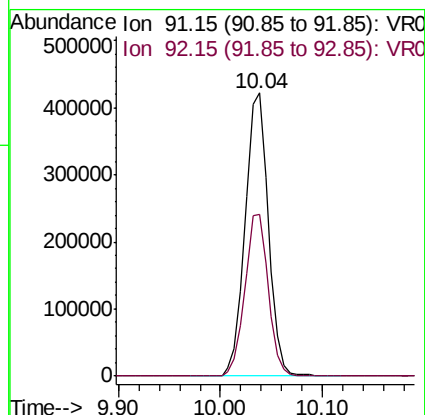
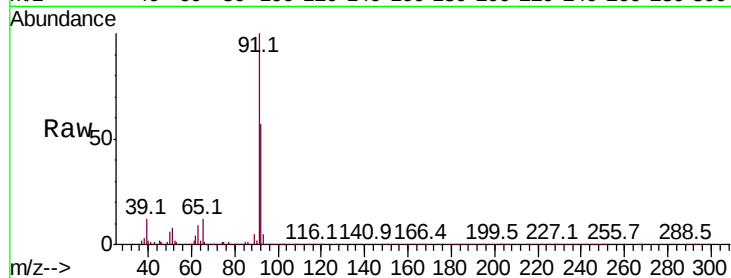
ClientSampleId :

Tot Ion: 91 Resp: 664251

Ion Ratio Lower Upper

91 100

92 57.4 41.8 77.6



#44

trans-1,3-Dichloropropene

Concen: 5.026 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR026068.D

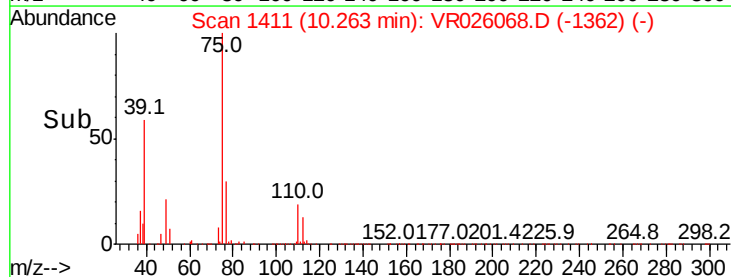
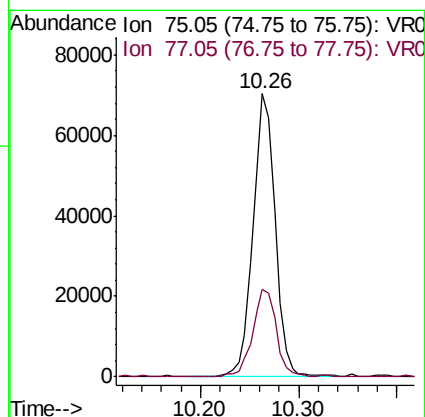
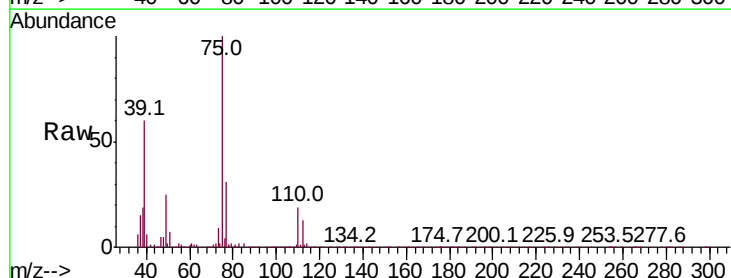
Acq: 12 Oct 2018 18:52

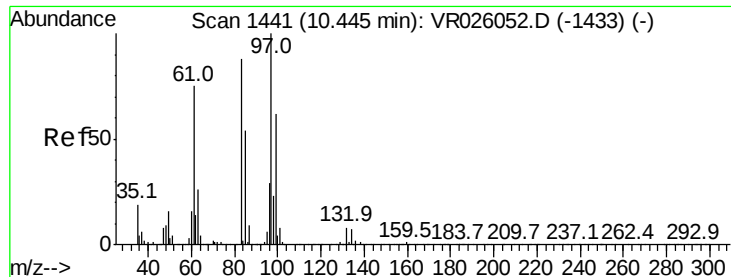
Tgt Ion: 75 Resp: 110785

Ion Ratio Lower Upper

75 100

77 30.7 23.0 42.8





#45

1,1,2-Trichloroethane

Concen: 4.570 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

ClientSampleId :

Tot Ion: 97 Resp: 62237

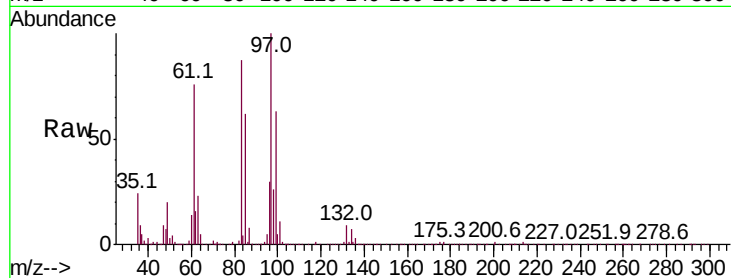
Ion	Ratio	Lower	Upper
97	100		
99	63.2	39.6	73.6
83	86.8	62.2	115.6
85	62.1	39.1	72.7

97 100

99 63.2 39.6 73.6

83 86.8 62.2 115.6

85 62.1 39.1 72.7



Abundance

Ion 96.95 (96.65 to 97.65): VR0

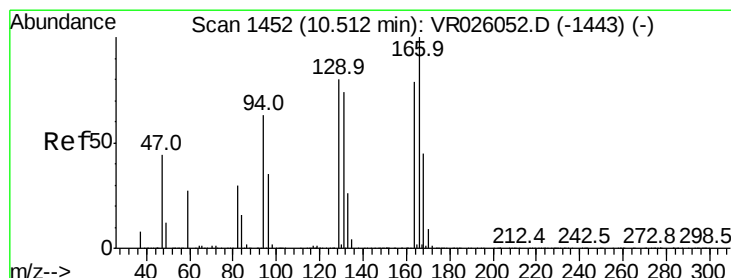
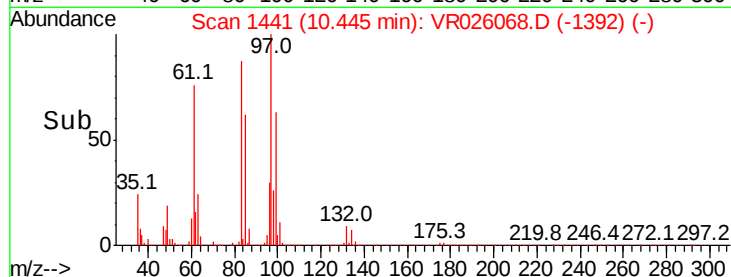
Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Time-->

10.40 10.50



#47

Tetrachloroethene

Concen: 4.379 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Tgt Ion: 164 Resp: 99784

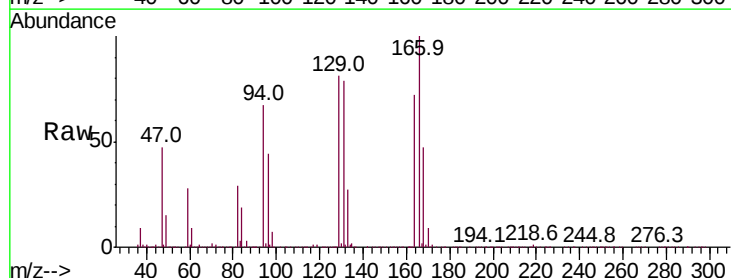
Ion	Ratio	Lower	Upper
164	100		
129	112.3	80.8	150.2
131	110.2	74.5	138.3
166	138.8	92.5	171.7

164 100

129 112.3 80.8 150.2

131 110.2 74.5 138.3

166 138.8 92.5 171.7



Abundance

Ion 163.90 (163.60 to 164.60): V

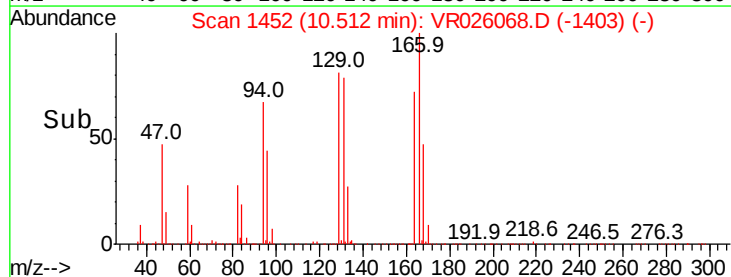
Ion 128.95 (128.65 to 129.65): V

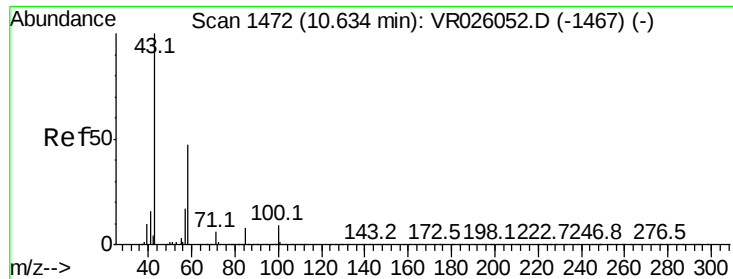
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

Time-->

10.40 10.50 10.60

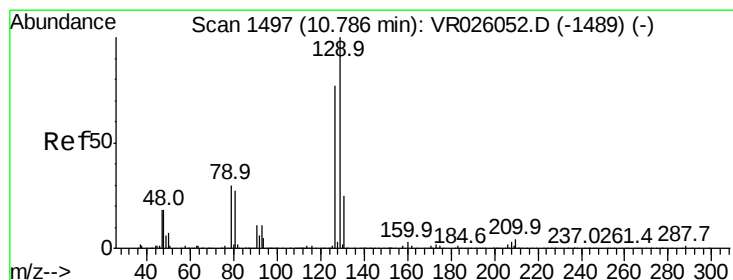
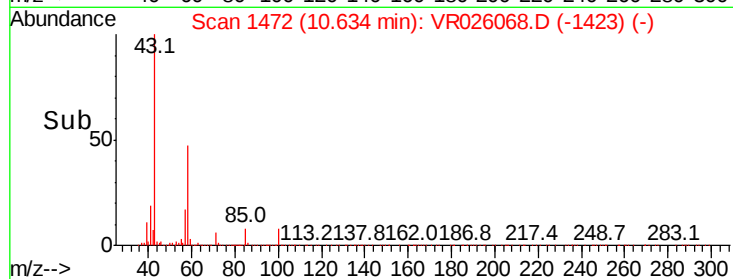
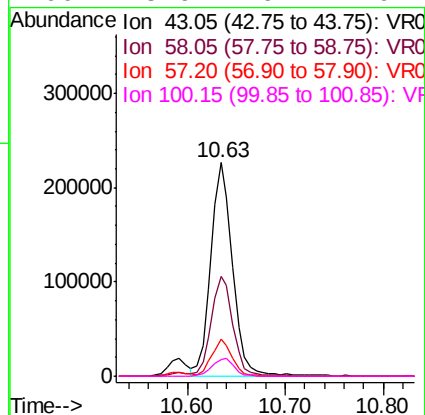
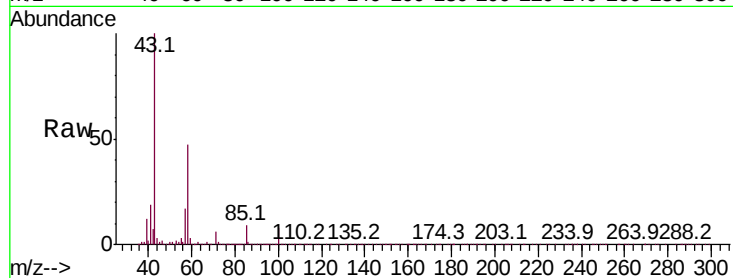




#48
2-Hexanone
Concen: 50.059 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

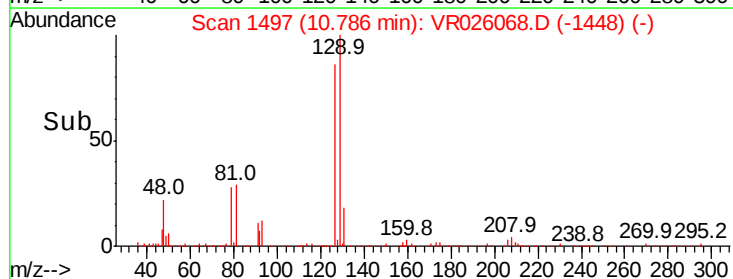
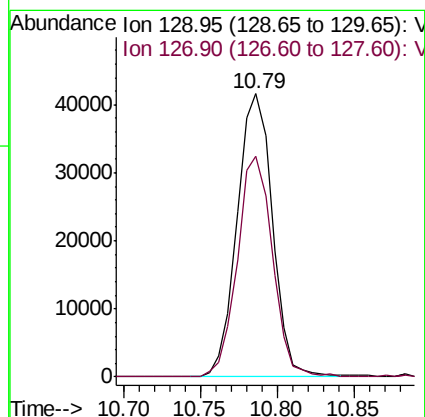
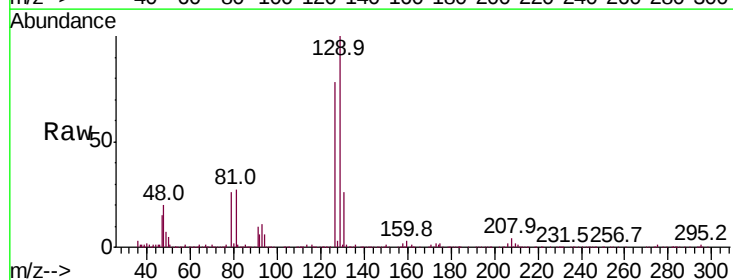
Instrument :
MSVOA_R
ClientSampleId :

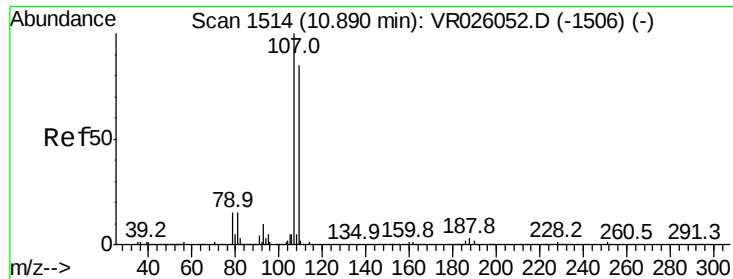
Tot Ion:	43	Resp:	346992
Ion	Ratio	Lower	Upper
43	100		
58	46.7	39.5	59.3
57	16.0	14.6	21.8
100	8.6	6.7	10.1



#49
Dibromochloromethane
Concen: 4.824 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion:	129	Resp:	66677
Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.1	100.5

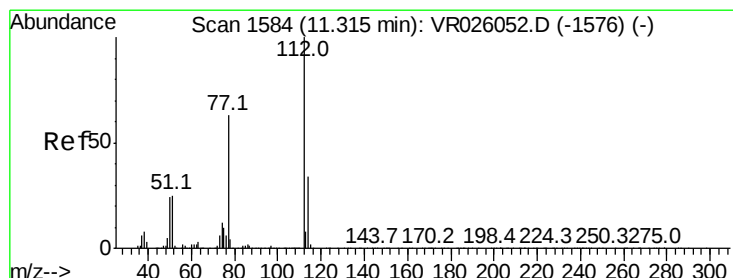
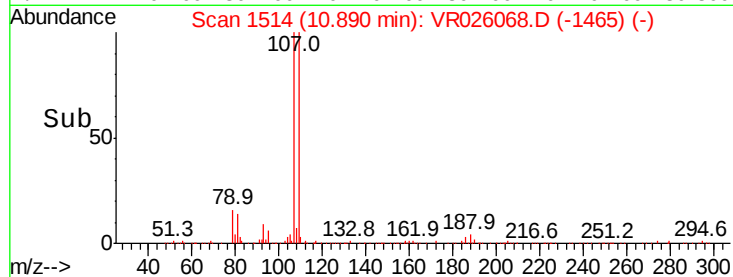
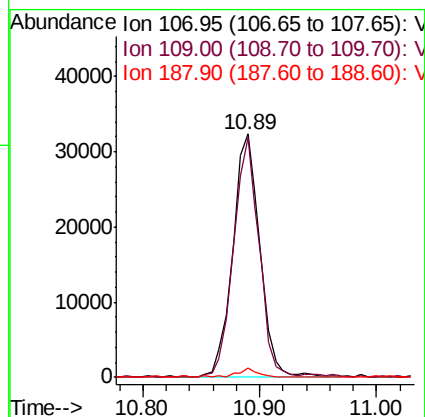
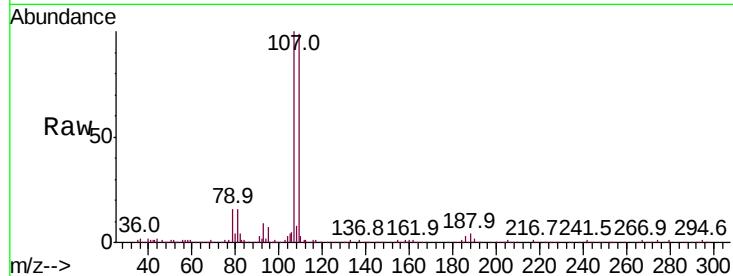




#50
1,2-Dibromoethane
Concen: 4.899 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

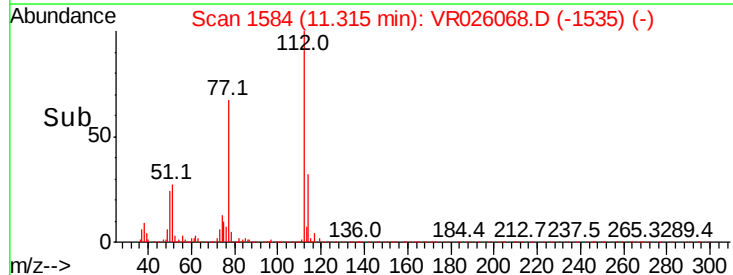
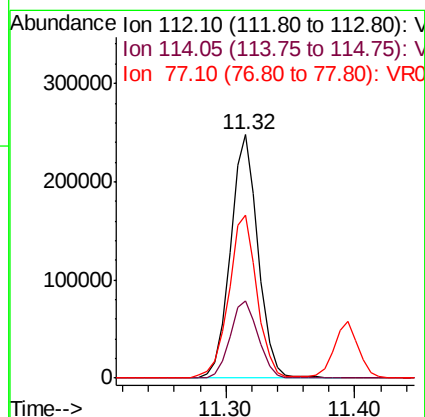
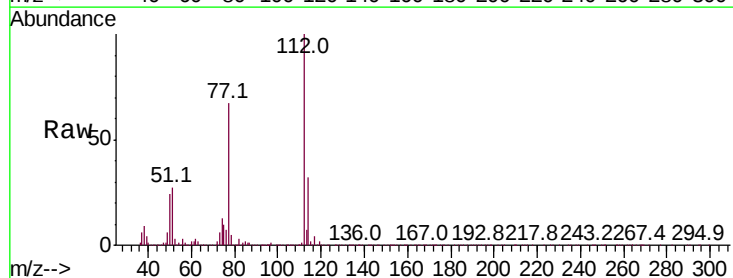
Instrument :
MSVOA_R
ClientSampleId :

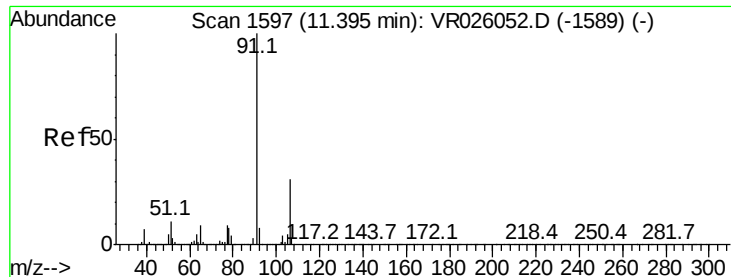
Tot Ion:107 Resp: 52639
Ion Ratio Lower Upper
107 100
109 98.7 63.5 117.9
188 4.0 1.7 2.5#



#51
Chlorobenzene
Concen: 4.773 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion:112 Resp: 369228
Ion Ratio Lower Upper
112 100
114 31.7 22.7 42.3
77 67.0 58.5 87.7





#52

Ethylbenzene

Concen: 4.783 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

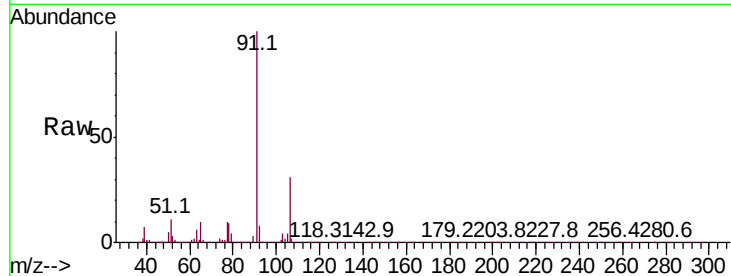
ClientSampleId :

Tot Ion: 91 Resp: 796167

Ion Ratio Lower Upper

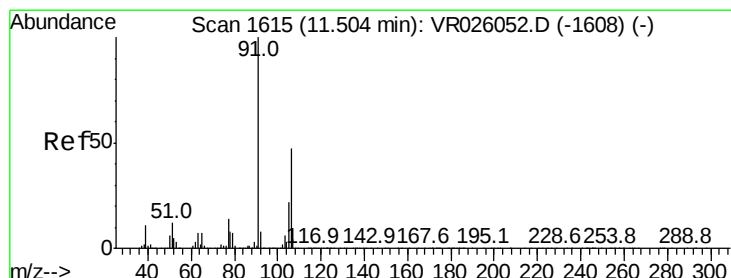
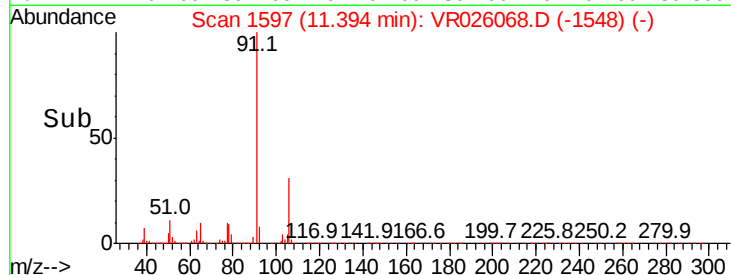
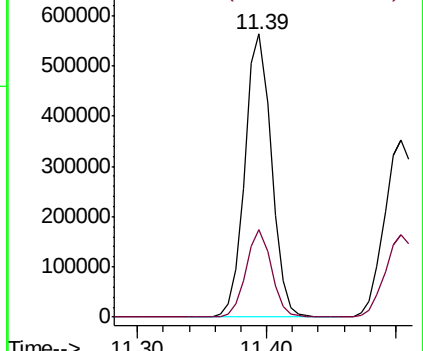
91 100

106 31.1 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V



#53

m,p-Xylene

Concen: 4.752 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR026068.D

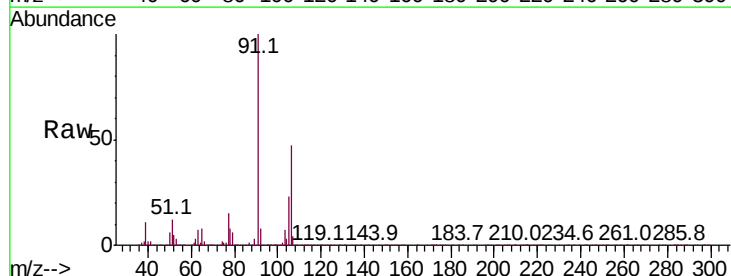
Acq: 12 Oct 2018 18:52

Tgt Ion: 106 Resp: 281617

Ion Ratio Lower Upper

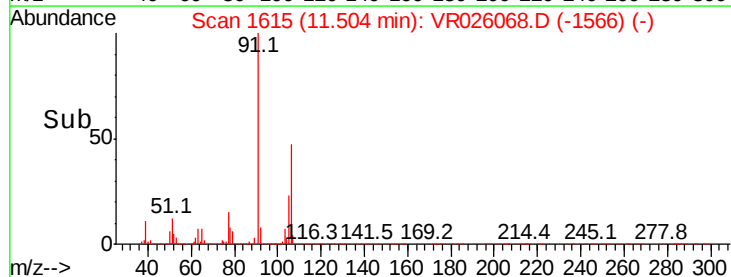
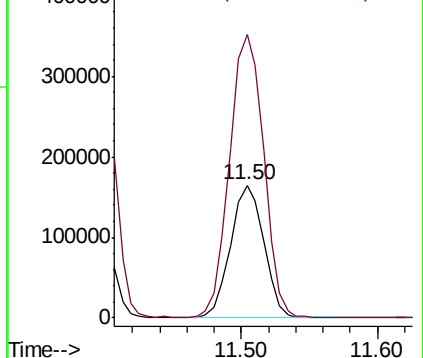
106 100

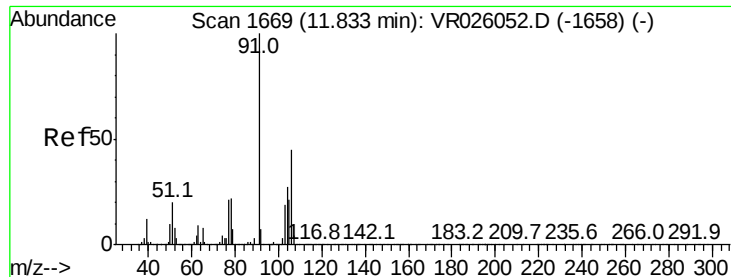
91 213.7 159.7 296.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0

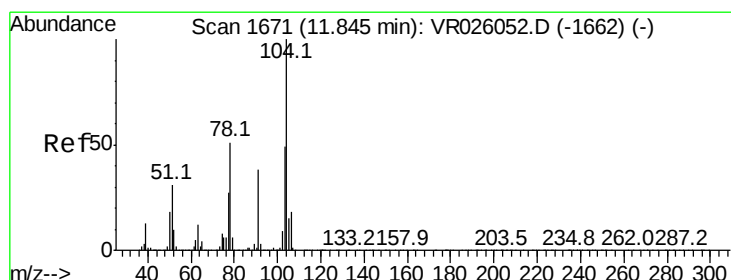
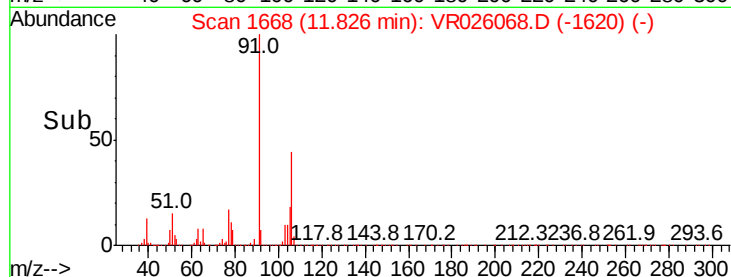
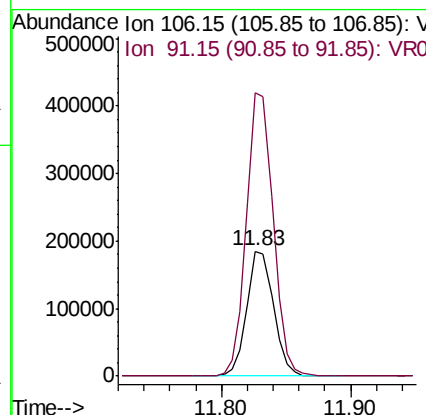
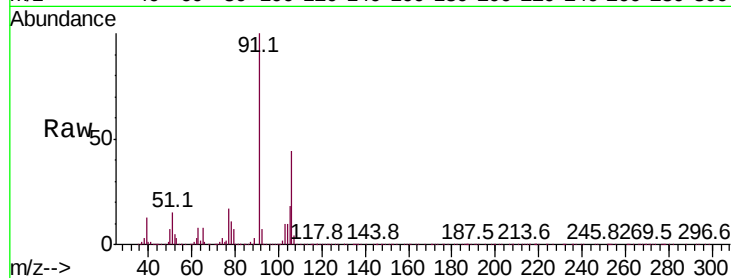




#54
o-Xylene
Concen: 4.794 ug/L
RT: 11.83 min Scan# 1668
Delta R.T. -0.01 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

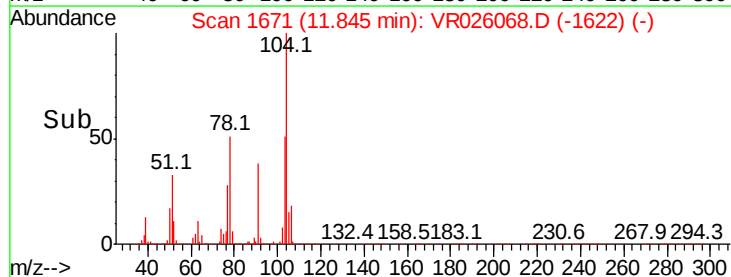
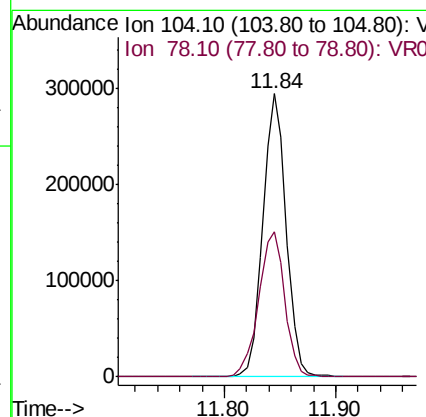
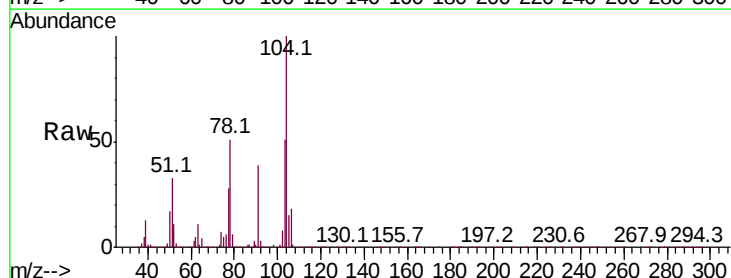
Instrument :
MSVOA_R
ClientSampled :

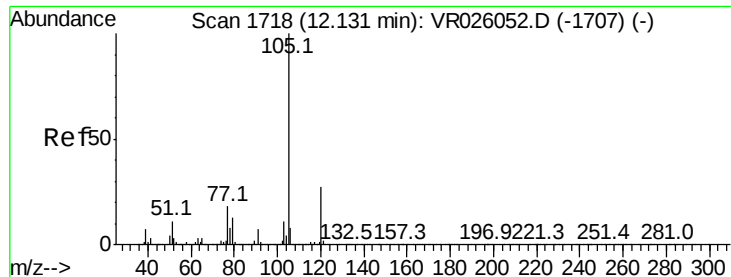
Tot Ion:106 Resp: 264469
Ion Ratio Lower Upper
106 100
91 227.0 164.5 305.5



#55
Styrene
Concen: 4.993 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VR026068.D
Acq: 12 Oct 2018 18:52

Tgt Ion:104 Resp: 428701
Ion Ratio Lower Upper
104 100
78 51.4 39.3 72.9





#56

Isopropylbenzene

Concen: 4.990 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026068.D

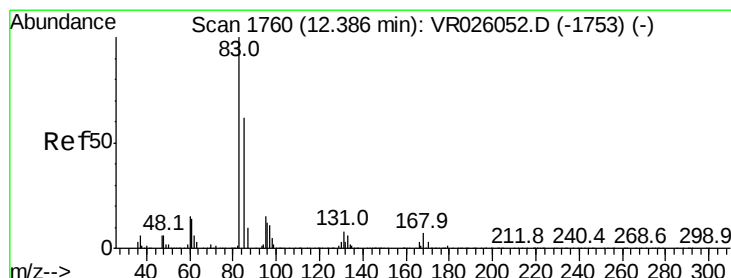
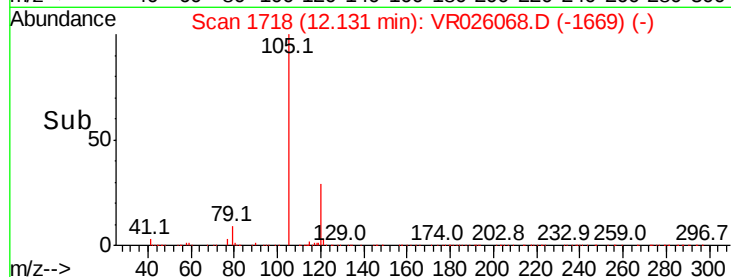
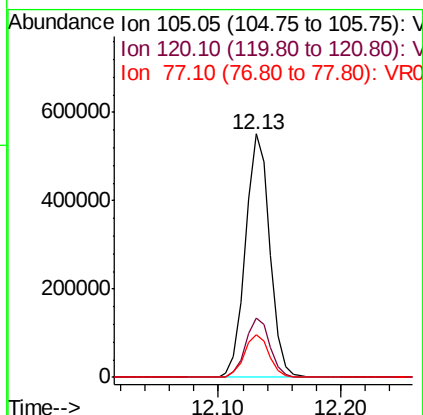
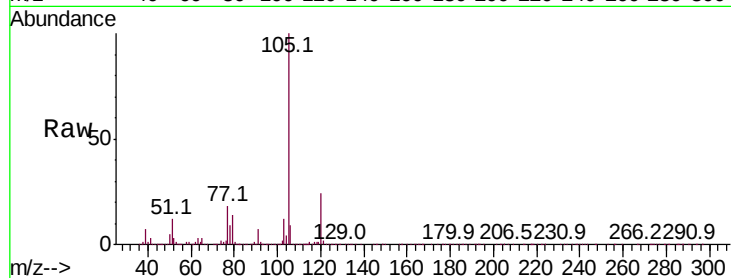
Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

ClientSampleId :

Tot Ion:	105	Resp:	759155
Ion	Ratio	Lower	Upper
105	100		
120	24.6	19.8	29.8
77	17.9	15.5	23.3



#58

1,1,2,2-Tetrachloroethane

Concen: 4.908 ug/L

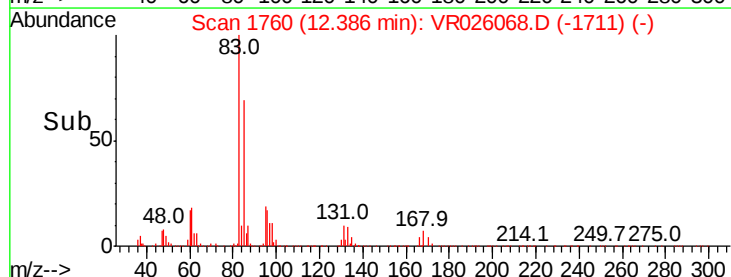
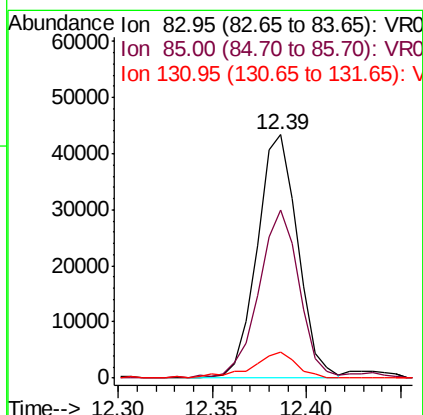
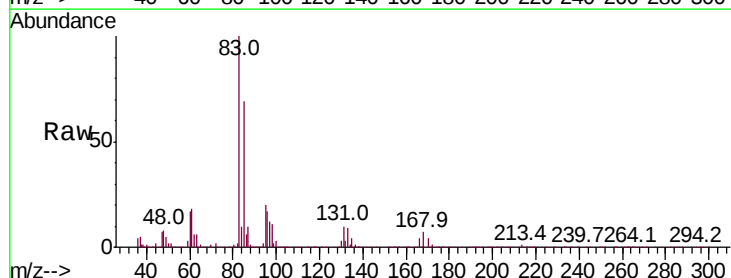
RT: 12.39 min Scan# 1760

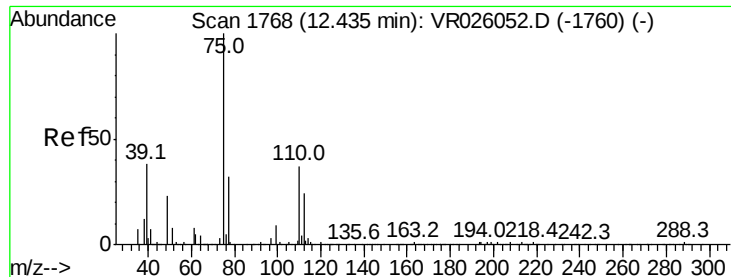
Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Tgt Ion:	83	Resp:	64400
Ion	Ratio	Lower	Upper
83	100		
85	68.8	45.8	85.0
131	10.4	6.6	9.8#





#59

1,2,3-Trichloropropane

Concen: 4.750 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

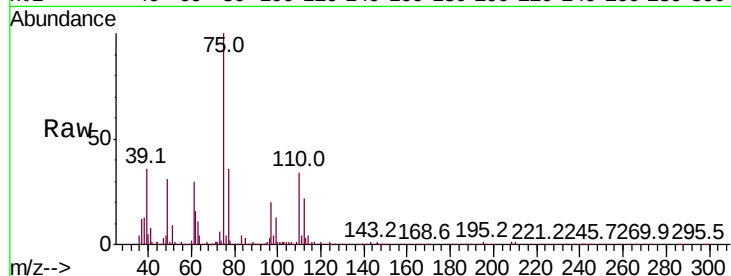
ClientSampleId :

Tot Ion: 75 Resp: 46392

Ion Ratio Lower Upper

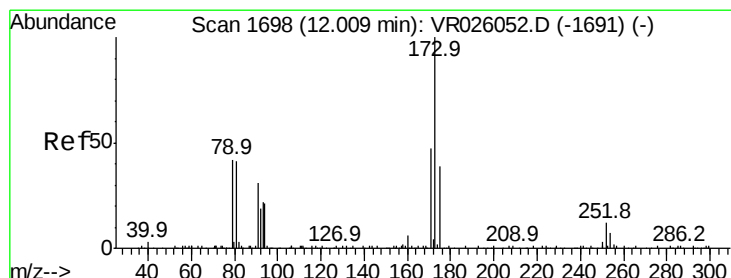
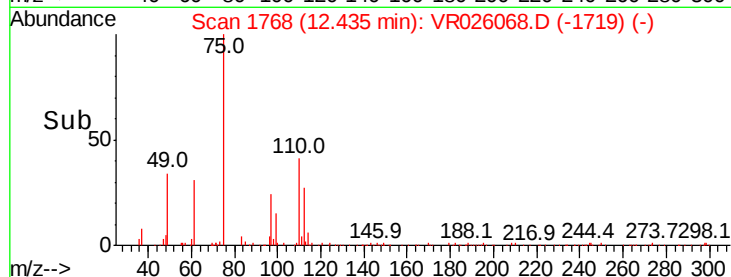
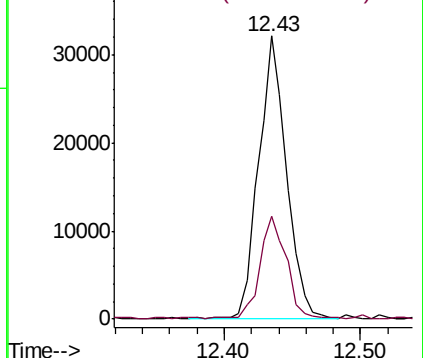
75 100

77 35.0 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 4.123 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

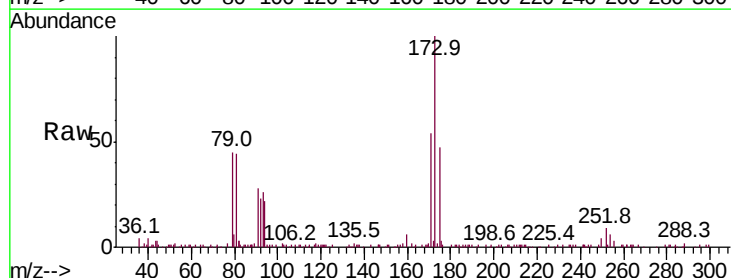
Tgt Ion: 173 Resp: 21499

Ion Ratio Lower Upper

173 100

175 51.1 36.9 55.3

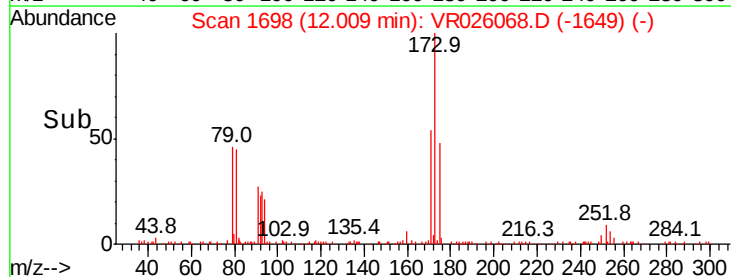
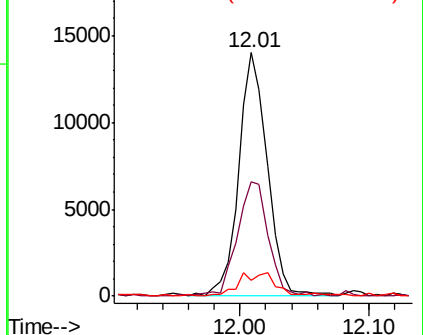
254 11.9 6.6 10.0#

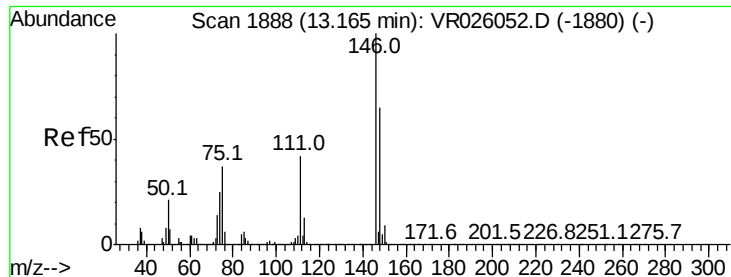


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 4.261 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

ClientSampleId :

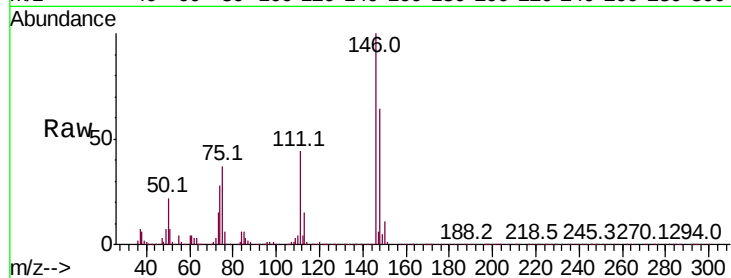
Tot Ion:146 Resp: 214796

Ion Ratio Lower Upper

146 100

111 44.2 36.6 68.0

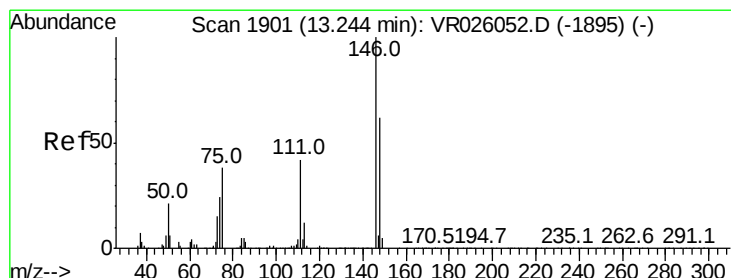
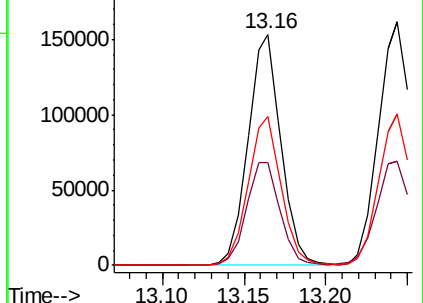
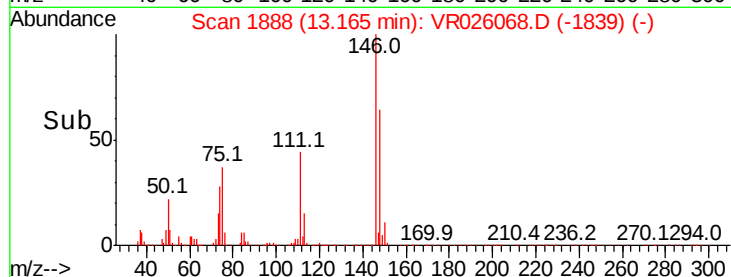
148 64.2 41.9 77.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.510 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

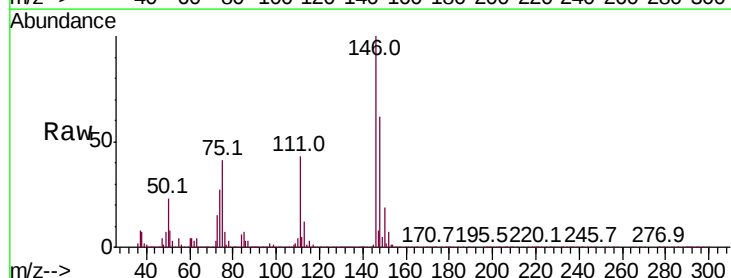
Tgt Ion:146 Resp: 232537

Ion Ratio Lower Upper

146 100

111 42.8 32.9 61.1

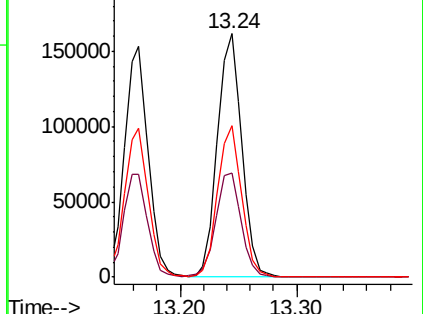
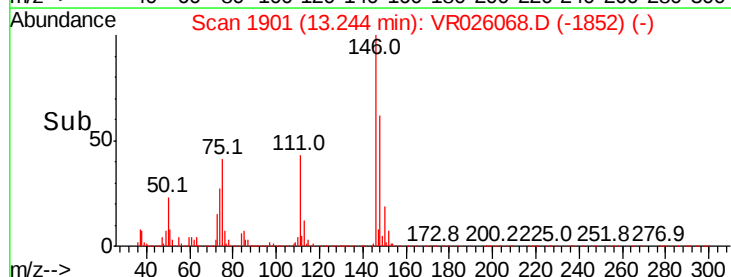
148 62.5 45.5 84.5

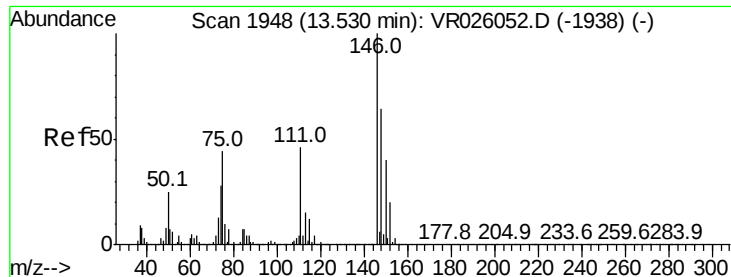


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.510 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

ClientSampleId :

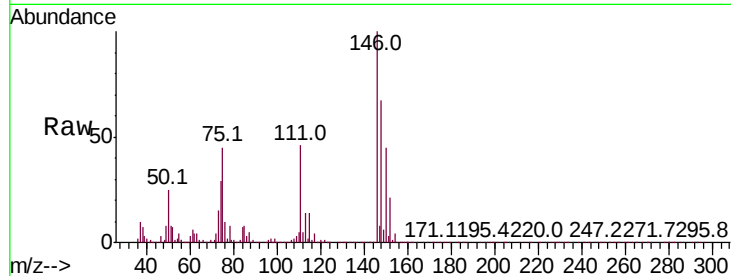
Tot Ion:146 Resp: 182644

Ion Ratio Lower Upper

146 100

111 45.6 39.4 59.0

148 67.0 53.5 80.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.53

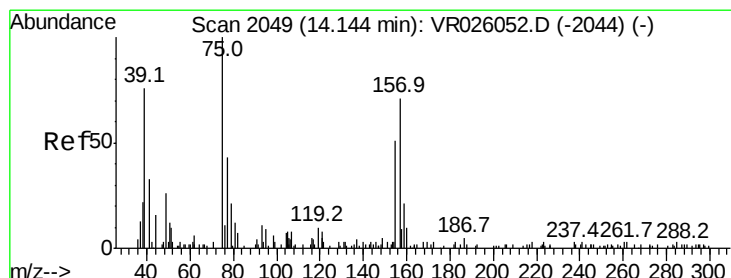
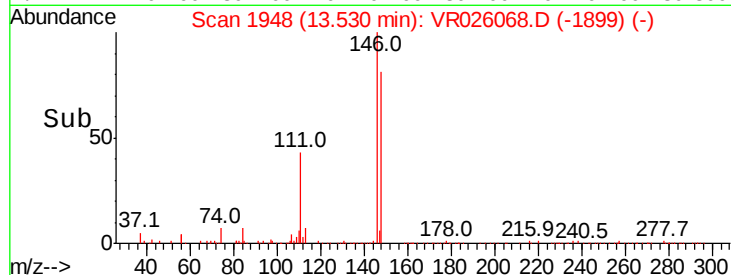
150000

100000

50000

0

Time--> 13.40 13.50 13.60



#66

1,2-Dibromo-3-chloropropane

Concen: 3.667 ug/L

RT: 14.14 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

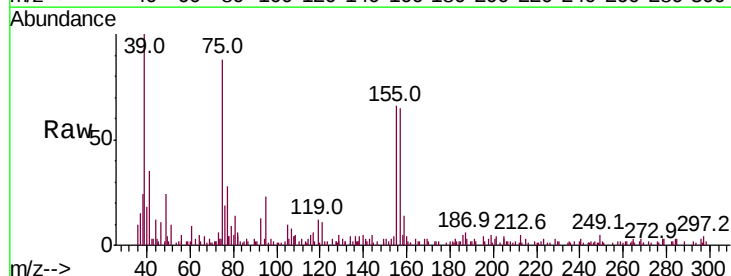
Tgt Ion: 75 Resp: 6244

Ion Ratio Lower Upper

75 100

155 75.7 37.8 56.6#

157 74.4 49.7 74.5



Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

14.14

5000

4000

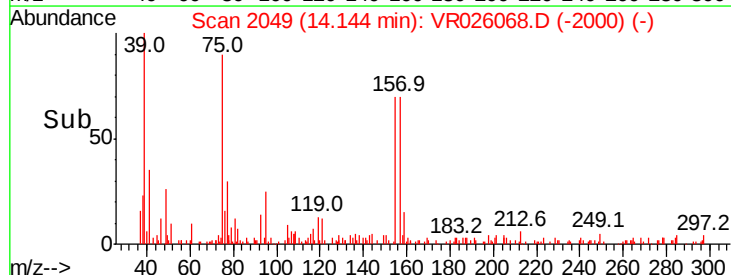
3000

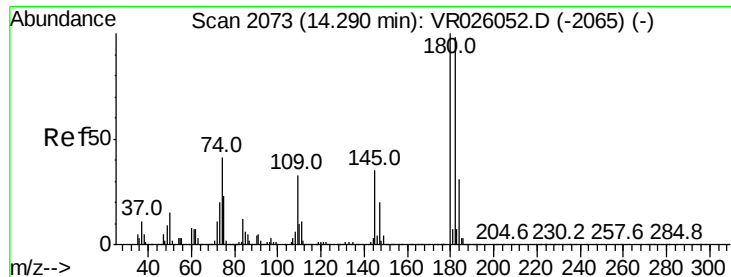
2000

1000

0

Time--> 14.10 14.15 14.20

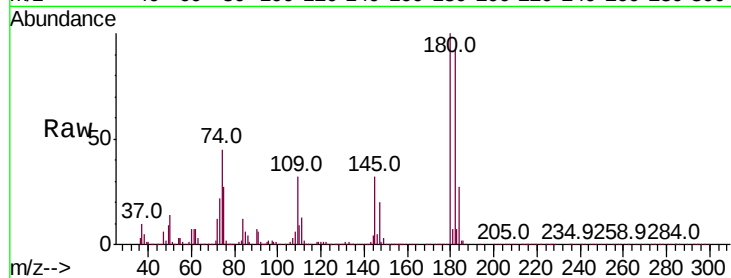




#67
 1,3,5-Trichlorobenzene
 Concen: 4.446 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VR026068.D
 Acq: 12 Oct 2018 18:52

Instrument :
 MSVOA_R
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.2	115.8
184	29.0	24.5	36.7
145	32.5	31.1	46.7



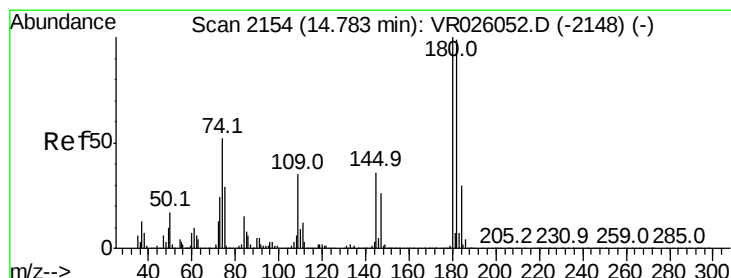
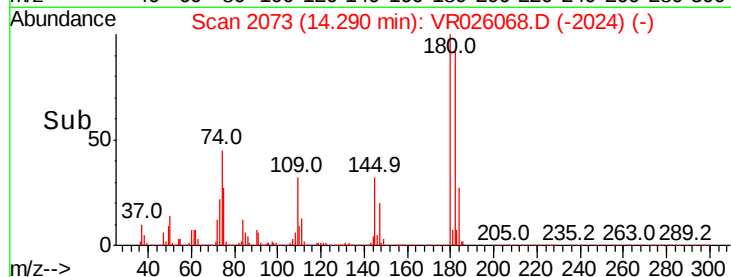
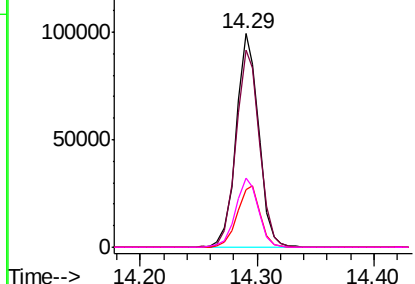
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

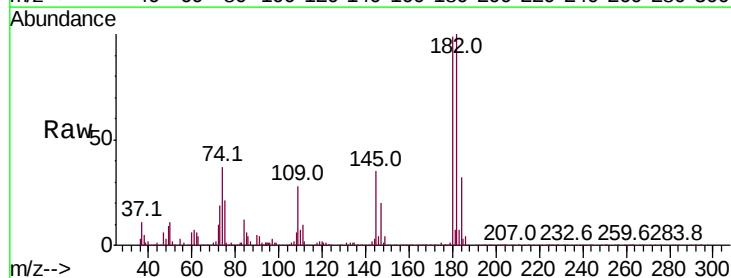
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.090 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. 0.01 min
 Lab File: VR026068.D
 Acq: 12 Oct 2018 18:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.4	75.2	112.8
145	35.8	30.5	45.7

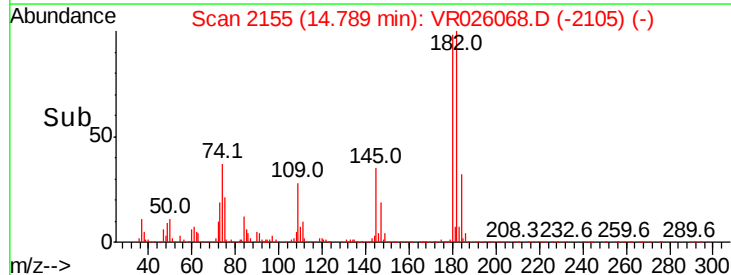
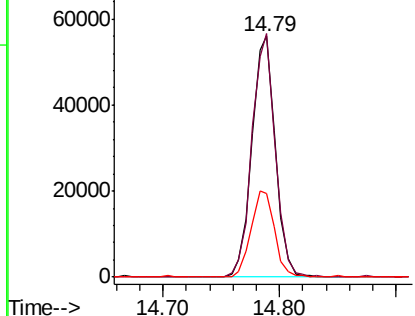


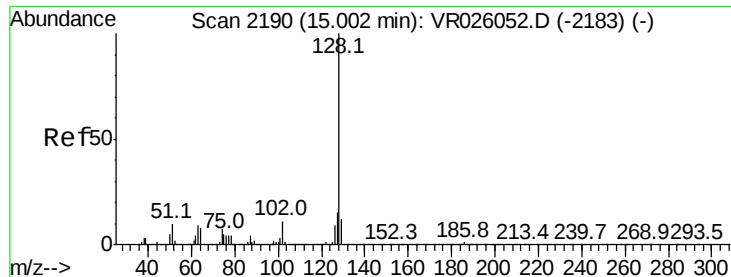
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.903 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

Instrument :

MSVOA_R

ClientSampled :

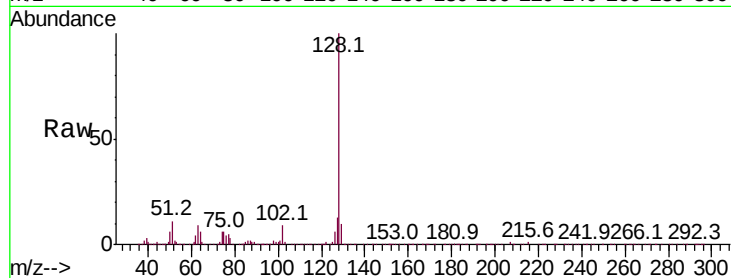
Tot Ion:128 Resp: 95330

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

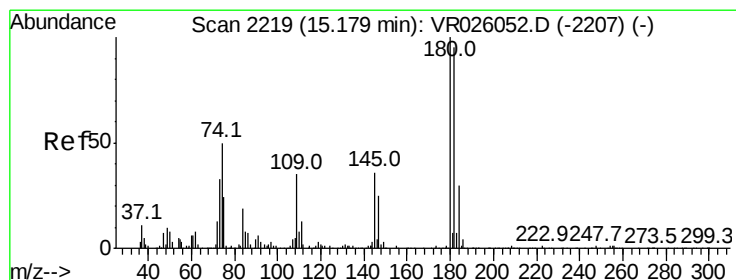
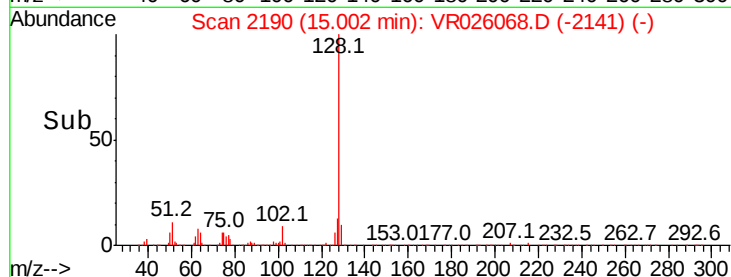
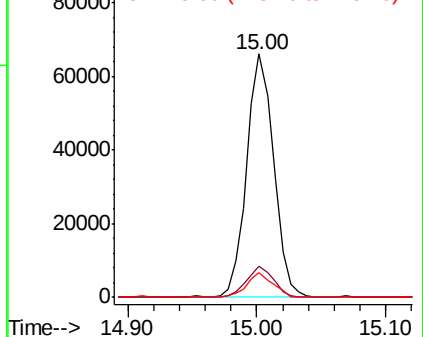
129 9.8 9.4 14.2



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



#70

1,2,3-Trichlorobenzene

Concen: 4.476 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VR026068.D

Acq: 12 Oct 2018 18:52

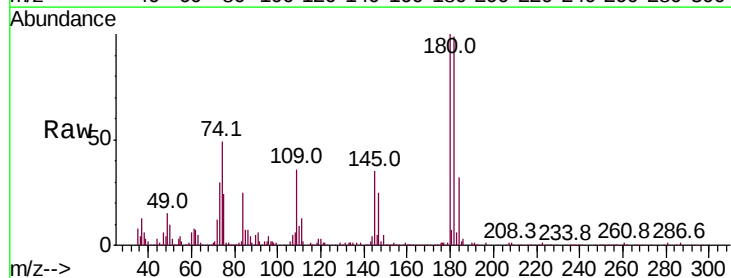
Tgt Ion:180 Resp: 59441

Ion Ratio Lower Upper

180 100

182 92.2 74.7 112.1

145 34.4 31.3 46.9



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

