

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051686.D
 Acq On : 5 Oct 2018 14:52
 Operator : MD\SY
 Sample : VN1005WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBSD01

Quant Time: Oct 05 16:16:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	101467	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	590914	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	508731	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	213740	30.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.17%
60) 4-Bromofluorobenzene	12.40	95	210026	27.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.20%
63) Toluene-d8	10.09	98	687822	30.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	114358	19.321	ug/l 100
3) Chloromethane	2.06	50	122736	21.124	ug/l 98
4) Vinyl Chloride	2.18	62	188403	21.319	ug/l 98
5) Bromomethane	2.57	94	148092	21.557	ug/l 90
6) Chloroethane	2.70	64	131418	22.185	ug/l 99
7) Trichlorofluoromethane	3.01	101	201855	19.944	ug/l 95
8) Diethyl Ether	3.41	74	57155	21.142	ug/l 81
9) 1,1,2-Trichlorotrifluoroet	3.76	101	105608	20.347	ug/l # 41
10) 1,1-Dichloroethene	3.74	96	100148	21.144	ug/l 92
11) Methyl Iodide	3.95	142	118345	19.462	ug/l 94
12) Methyl Acetate	4.33	43	74927	20.046	ug/l 95
13) Acrolein	3.61	56	27063	98.490	ug/l 82
14) Acrylonitrile	5.00	53	150167	98.400	ug/l # 61
15) Acetone	3.82	58	34751	95.284	ug/l 87
16) Carbon Disulfide	4.05	76	272272	20.097	ug/l 99
17) Allyl chloride	4.33	41	137549	19.911	ug/l 76
18) Methylene Chloride	4.55	84	108596	20.322	ug/l 98
19) trans-1,2-Dichloroethene	5.05	96	103777	19.382	ug/l 89
20) Diisopropyl ether	5.96	45	304652	19.635	ug/l # 88
21) 1,1-Dichloroethane	5.85	63	192531	19.882	ug/l # 95
22) cis-1,2-Dichloroethene	6.83	96	125179	19.872	ug/l 89
23) tert-Butyl Alcohol	4.79	59	42380	107.510	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	299542	19.696	ug/l # 81
25) Chloroform	7.38	83	213627	19.511	ug/l 98
26) Cyclohexane	7.66	56	163808	19.907	ug/l # 83
29) 1,1-Dichloropropene	7.80	75	152739	19.448	ug/l 95
30) 2-Butanone	6.84	43	180780	94.515	ug/l 96
31) 2,2-Dichloropropane	6.83	77	184802	18.888	ug/l # 80
32) 1,1,1-Trichloroethane	7.57	97	206143	19.518	ug/l 96
33) Carbon Tetrachloride	7.78	117	187623	19.595	ug/l 92
34) Benzene	8.04	78	462474	19.466	ug/l # 72
35) Methacrylonitrile	7.17	41	38911	18.433	ug/l 81
36) 1,2-Dichloroethane	8.13	62	155627	19.572	ug/l 98
37) Trichloroethene	8.84	130	131663	19.930	ug/l 98
38) Methylcyclohexane	9.08	83	189527	19.057	ug/l 84
39) 1,2-Dichloropropane	9.12	63	114896	19.745	ug/l 95
40) Dibromomethane	9.21	93	79012	19.627	ug/l 95

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1005WBSD01

Quant Time: Oct 05 16:16:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	172104	19.157	ug/l	96
42) Vinyl Acetate	5.90	43	1114191	98.862	ug/l #	95
43) Ethyl Acetate	6.93	43	82822	20.579	ug/l #	87
44) Isopropyl Acetate	8.17	43	178858	20.094	ug/l	96
45) 1,4-Dioxane	9.20	88	22267	395.922	ug/l #	79
46) Methyl methacrylate	9.20	41	79720	20.089	ug/l	84
48) t-1,3-Dichloropropene	10.38	75	167900	18.473	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	184061	18.790	ug/l #	89
50) 1,1,2-Trichloroethane	10.56	97	108127	19.045	ug/l	95
51) Ethyl methacrylate	10.43	69	132790	18.391	ug/l	86
52) 1,3-Dichloropropane	10.71	76	171380	18.955	ug/l	98
53) Dibromochloromethane	10.90	129	133656	17.923	ug/l	97
54) 1,2-Dibromoethane	11.01	107	109776	18.431	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	276735	92.514	ug/l	96
56) Bromoform	12.13	173	88637	16.580	ug/l	96
58) 4-Methyl-2-Pentanone	9.99	43	455782	109.119	ug/l #	95
59) 2-Hexanone	10.75	43	284521	100.637	ug/l	96
61) Tetrachloroethene	10.63	164	121838	20.329	ug/l	98
62) Toluene	10.16	91	513287	19.918	ug/l	99
64) Chlorobenzene	11.43	112	319557	19.320	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	128392	19.072	ug/l	98
66) Ethyl Benzene	11.51	91	558477	19.265	ug/l	98
67) m/p-Xylenes	11.62	106	425507	36.698	ug/l	98
68) o-Xylene	11.95	106	214575	18.763	ug/l	94
69) Styrene	11.97	104	329851	18.077	ug/l	98
70) Isopropylbenzene	12.25	105	575836	18.739	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	128503	20.024	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	153001	29.887	ug/l	65
73) Bromobenzene	12.53	156	135939	18.393	ug/l	88
74) n-propylbenzene	12.59	91	617113	18.243	ug/l	96
75) 2-Chlorotoluene	12.68	91	359911	18.209	ug/l	94
76) 1,3,5-Trimethylbenzene	12.73	105	473888	18.174	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	34099	17.865	ug/l	97
78) 4-Chlorotoluene	12.77	91	344721	17.402	ug/l	94
79) tert-butylbenzene	12.99	119	429515	18.315	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	465358	17.942	ug/l	98
81) sec-Butylbenzene	13.17	105	572054	18.234	ug/l	98
82) p-Isopropyltoluene	13.29	119	490102	17.733	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	226211	17.115	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	209975	16.625	ug/l	97
85) n-Butylbenzene	13.62	91	376327	17.227	ug/l	96
86) Hexachloroethane	13.87	117	101535	18.568	ug/l	86
87) 1,2-Dichlorobenzene	13.65	146	224444	17.330	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20496	19.397	ug/l #	84
89) 1,2,4-Trichlorobenzene	14.91	180	87766	17.967	ug/l	98
90) Hexachlorobutadiene	15.01	225	73375	18.618	ug/l	98
91) Naphthalene	15.13	128	181155	14.813	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	91647	16.403	ug/l	93

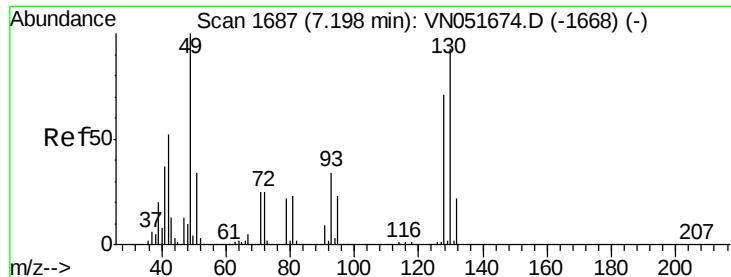
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
Data File : VN051686.D
Acq On : 5 Oct 2018 14:52
Operator : MD\SY
Sample : VN1005WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

Quant Time: Oct 05 16:16:35 2018
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QLast Update : Fri Oct 05 11:11:26 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampled :

VN1005WBSD01

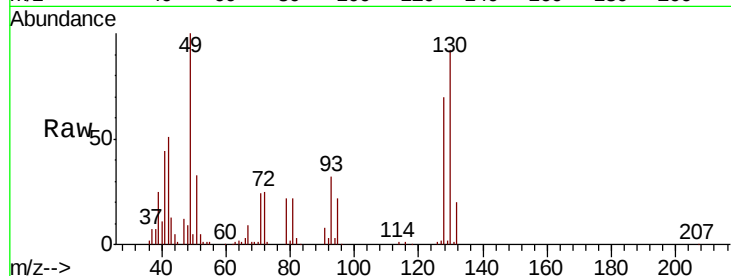
Tot Ion:128 Resp: 101467

Ion Ratio Lower Upper

128 100

49 142.4 0.0 403.3

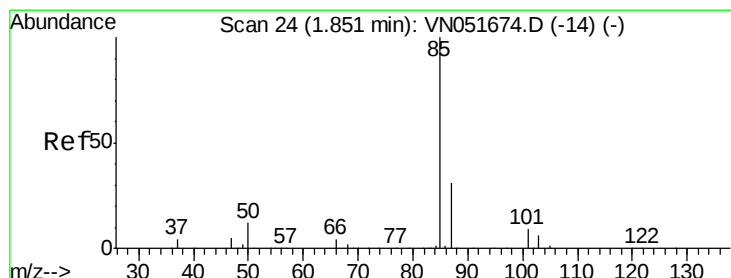
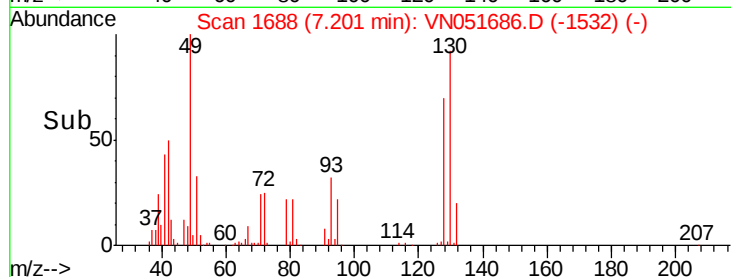
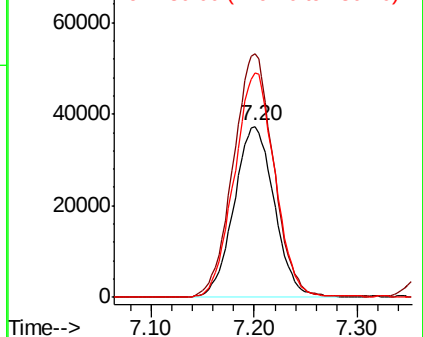
130 131.6 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 19.321 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051686.D

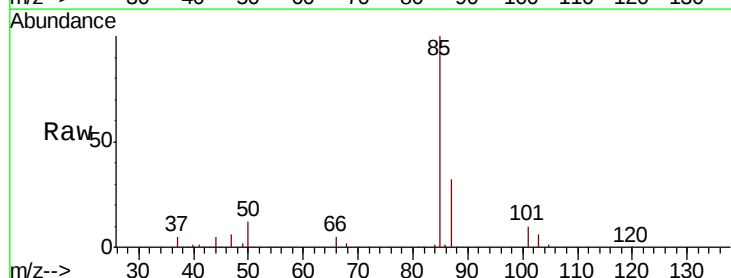
Acq: 5 Oct 2018 14:52

Tgt Ion: 85 Resp: 114358

Ion Ratio Lower Upper

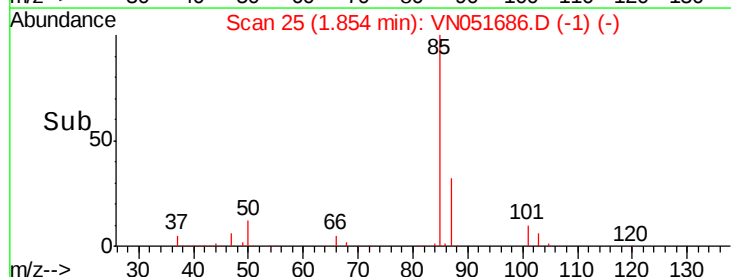
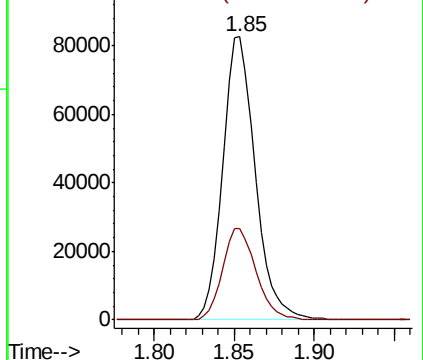
85 100

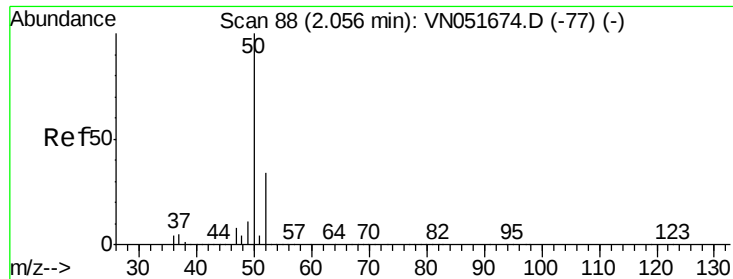
87 32.2 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

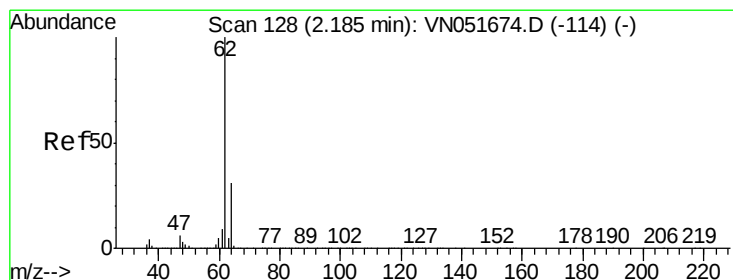
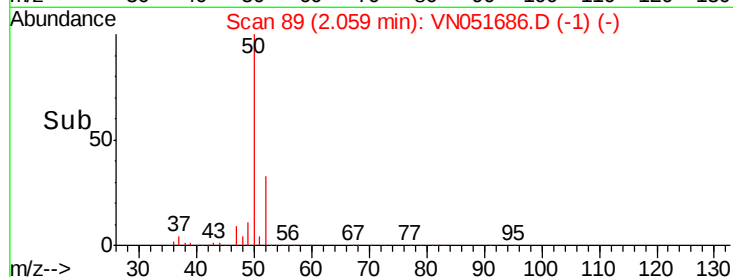
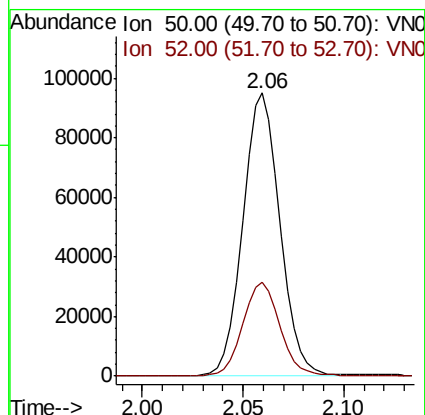
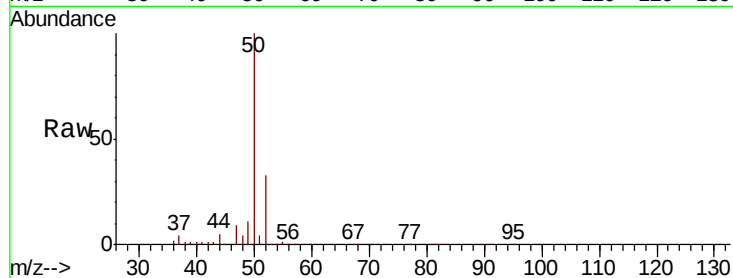




#3
Chloromethane
Concen: 21.124 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

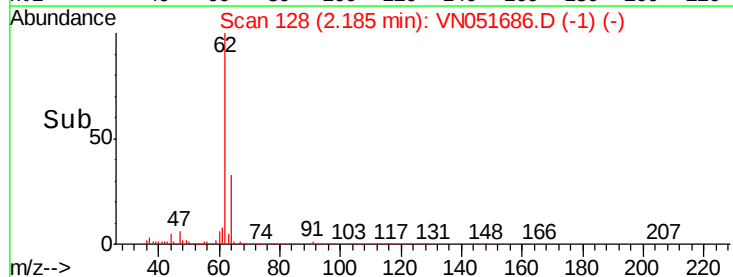
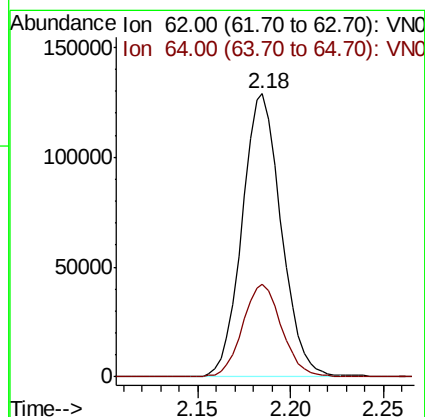
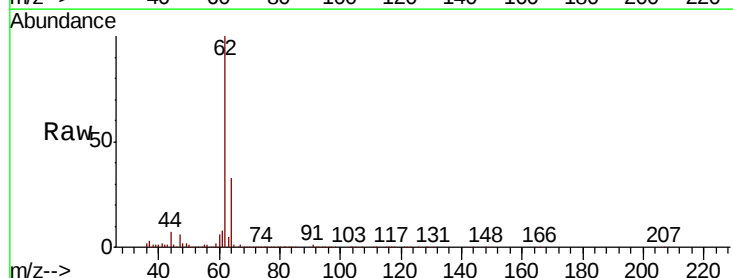
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

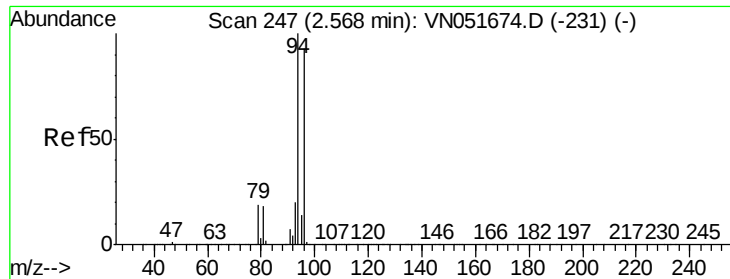
Tot Ion: 50 Resp: 122736
Ion Ratio Lower Upper
50 100
52 33.1 27.2 40.8



#4
Vinyl Chloride
Concen: 21.319 ug/l
RT: 2.18 min Scan# 128
Delta R.T. -0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 62 Resp: 188403
Ion Ratio Lower Upper
62 100
64 32.8 25.4 38.2





#5

Bromomethane

Concen: 21.557 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

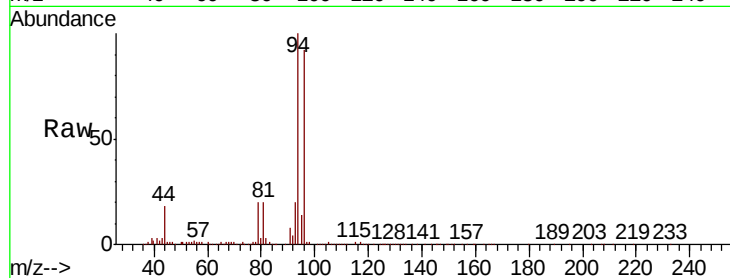
VN1005WBSD01

Tot Ion: 94 Resp: 148092

Ion Ratio Lower Upper

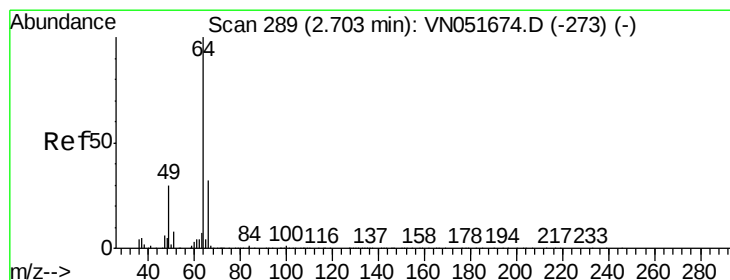
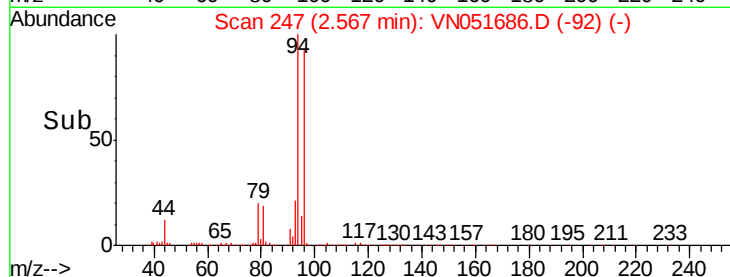
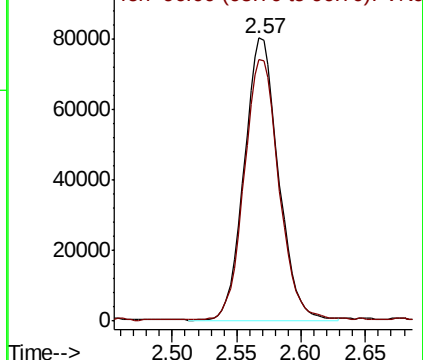
94 100

96 91.9 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 22.185 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN051686.D

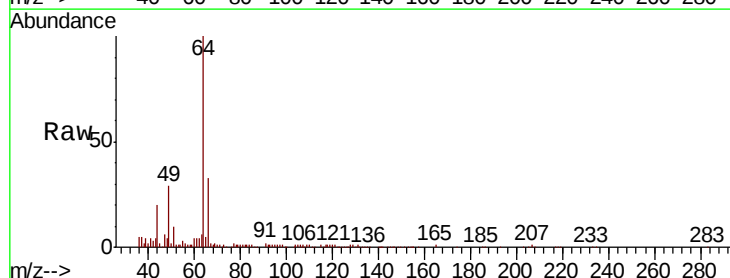
Acq: 5 Oct 2018 14:52

Tgt Ion: 64 Resp: 131418

Ion Ratio Lower Upper

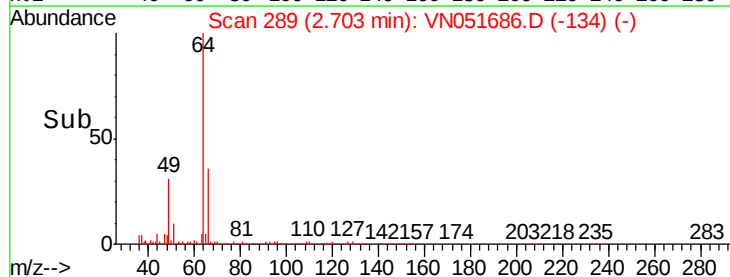
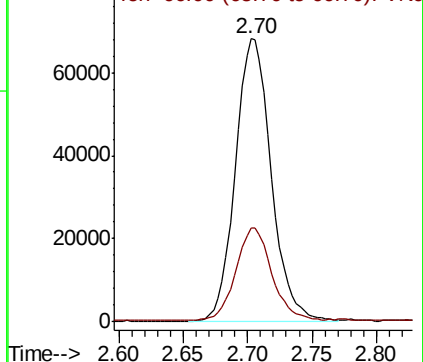
64 100

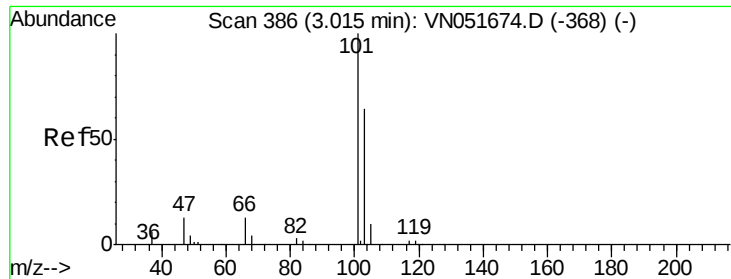
66 32.7 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



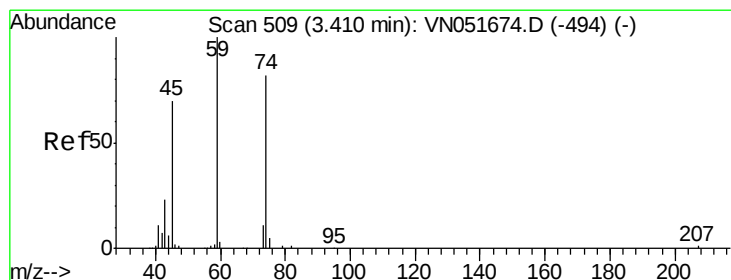
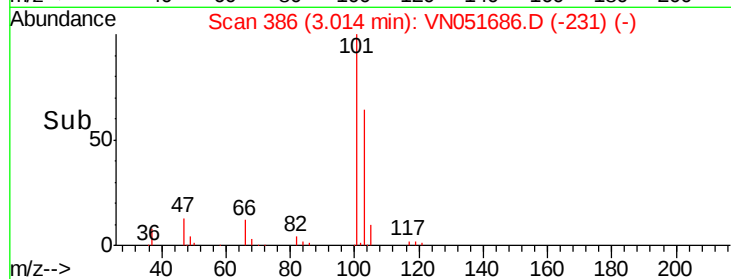
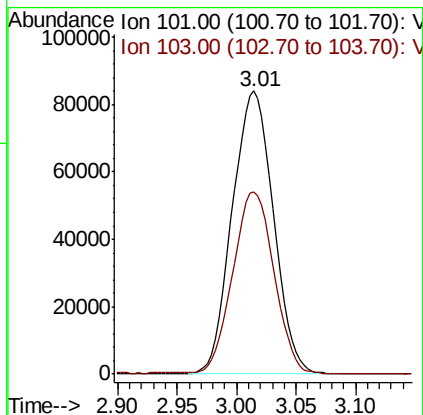
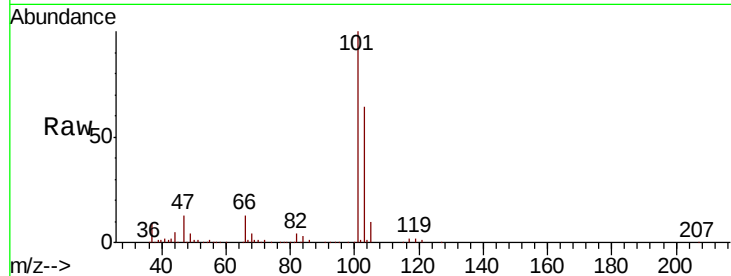


#7

Trichlorofluoromethane
 Concen: 19.944 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Instrument :
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 ClientSampleId :
 VN1005WBSD01

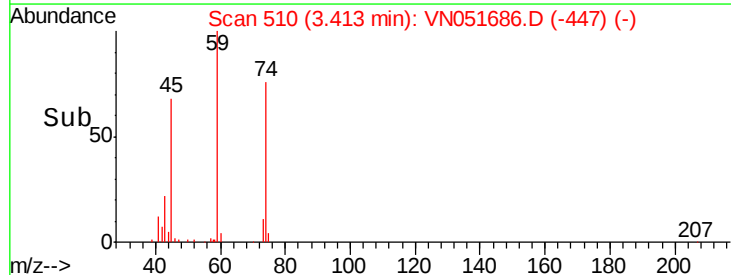
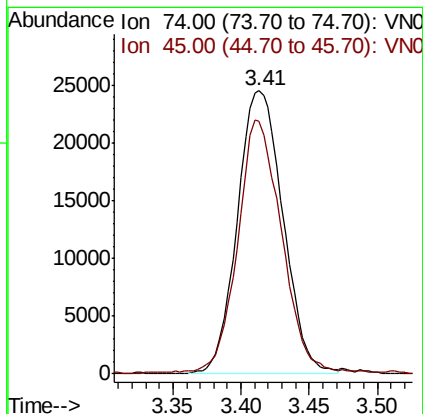
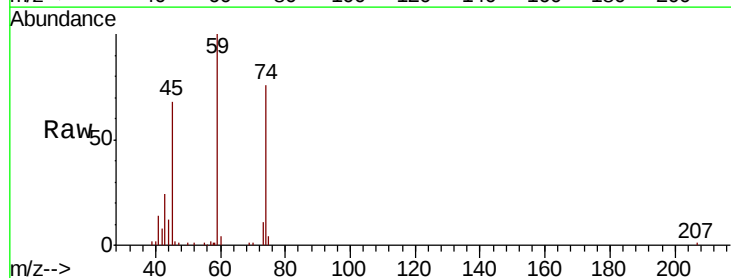
Tot Ion:101 Resp: 201855
 Ion Ratio Lower Upper
 101 100
 103 64.4 54.8 82.2

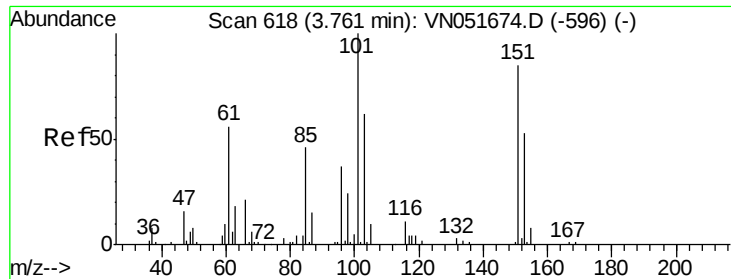


#8

Diethyl Ether
 Concen: 21.142 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Tgt Ion: 74 Resp: 57155
 Ion Ratio Lower Upper
 74 100
 45 84.6 20.7 186.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.347 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

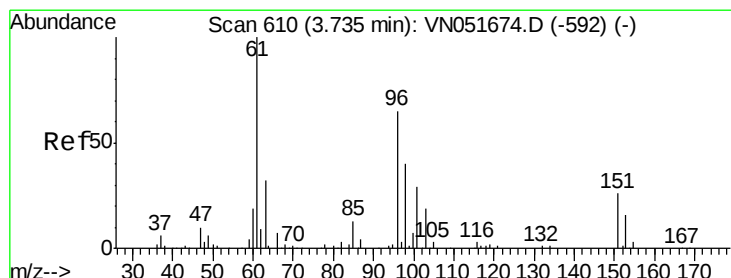
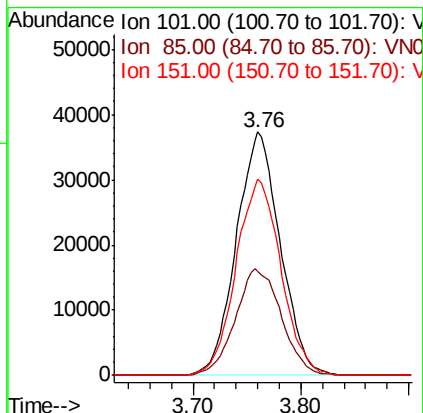
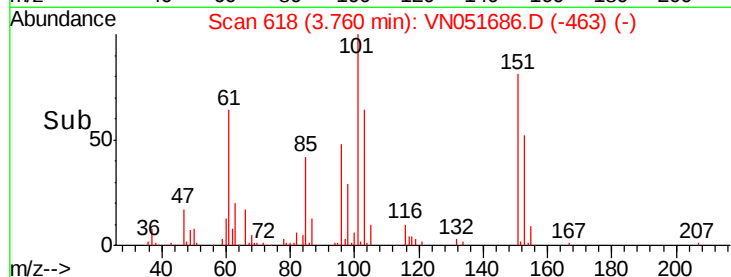
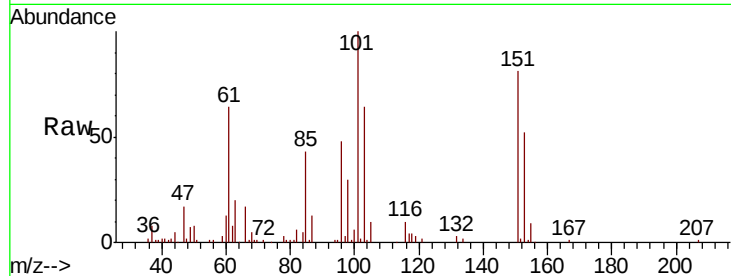
Tot Ion:101 Resp: 105608

Ion Ratio Lower Upper

101 100

85 45.7 0.0 46.0

151 82.4 0.0 82.2#



#10

1,1-Dichloroethene

Concen: 21.144 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

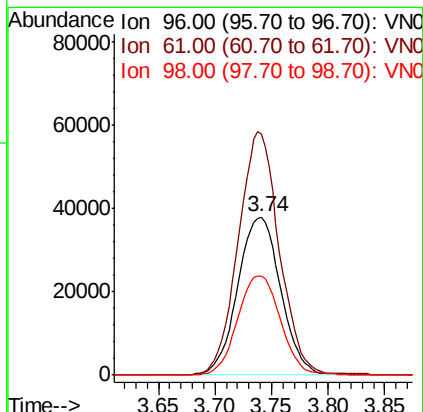
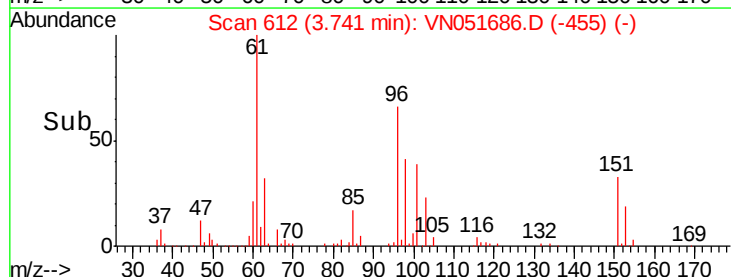
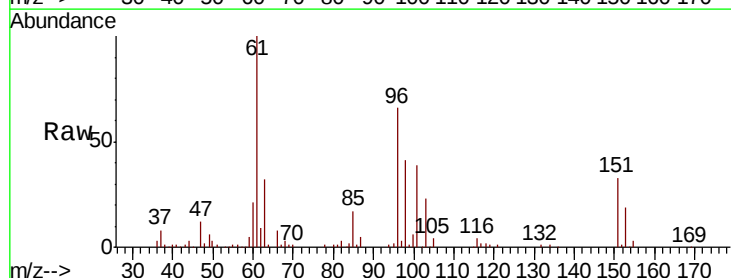
Tgt Ion: 96 Resp: 100148

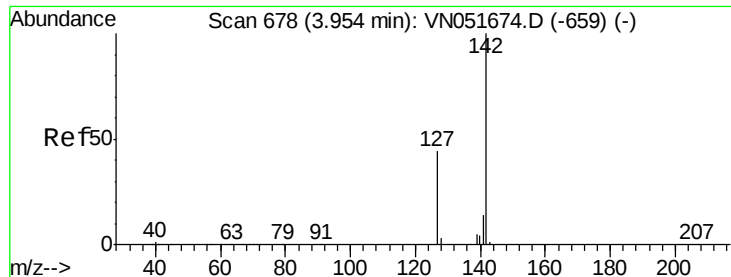
Ion Ratio Lower Upper

96 100

61 152.4 133.0 199.6

98 63.0 52.6 78.8

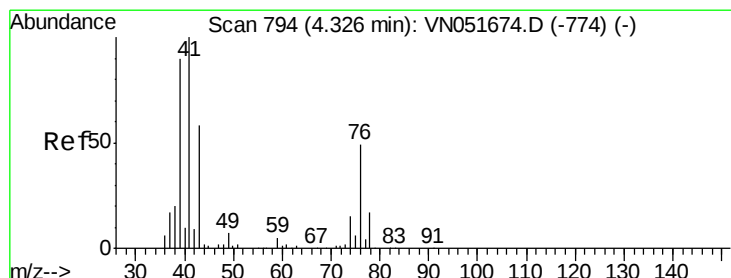
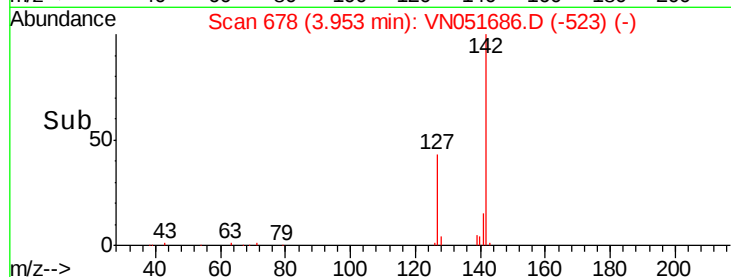
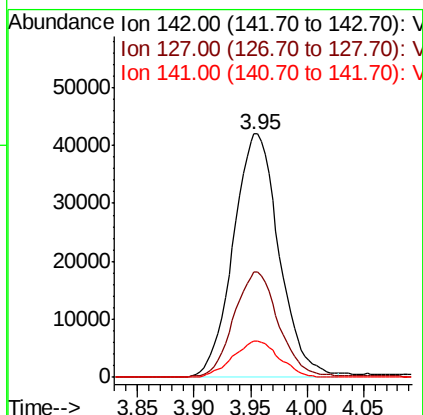
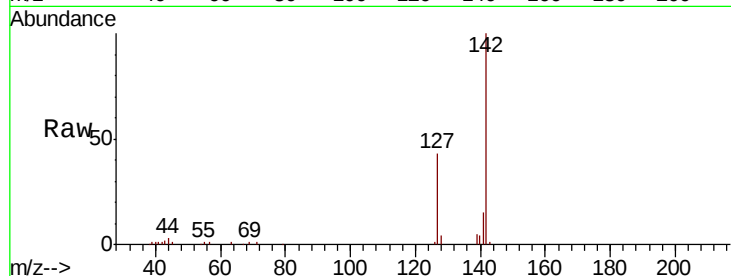




#11
Methyl Iodide
Concen: 19.462 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

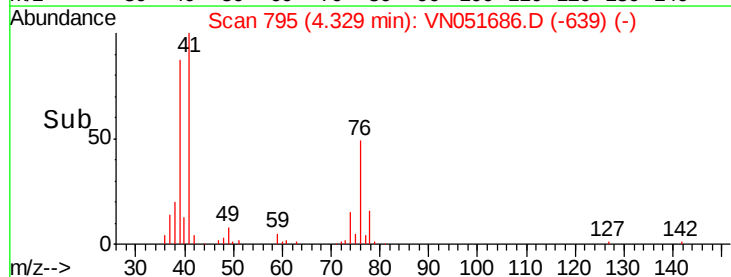
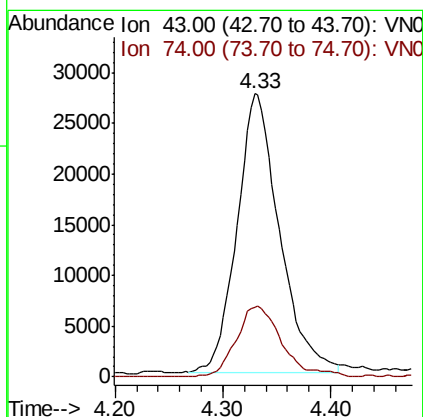
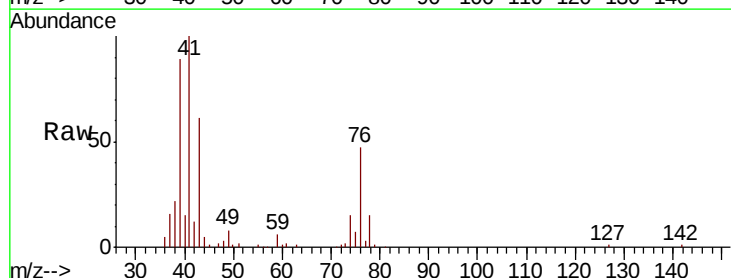
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

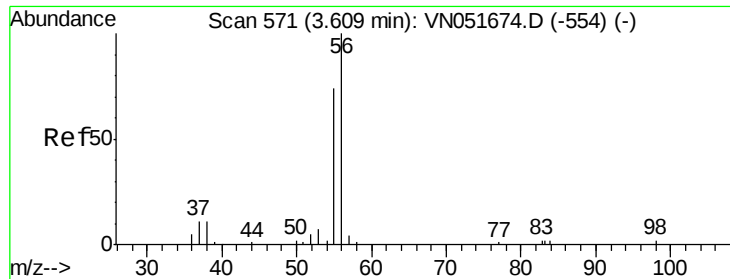
Tot Ion:142 Resp: 118345
Ion Ratio Lower Upper
142 100
127 42.8 19.7 59.0
141 14.9 6.3 18.9



#12
Methyl Acetate
Concen: 20.046 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 43 Resp: 74927
Ion Ratio Lower Upper
43 100
74 24.6 21.8 32.6





#13

Acrolein

Concen: 98.490 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

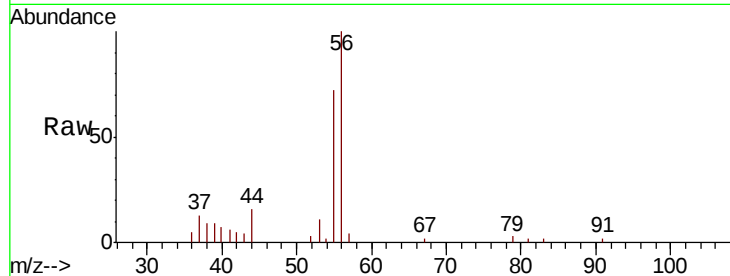
VN1005WBSD01

Tot Ion: 56 Resp: 27063

Ion Ratio Lower Upper

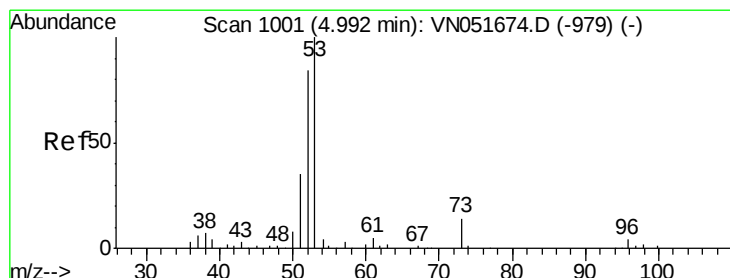
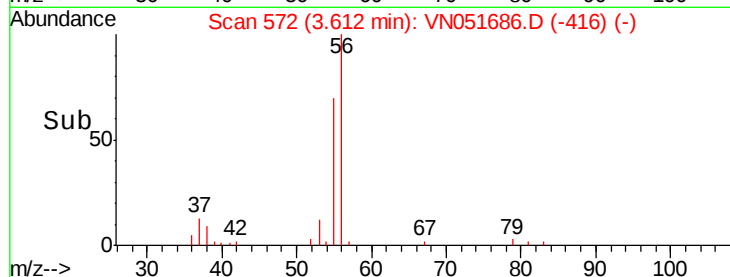
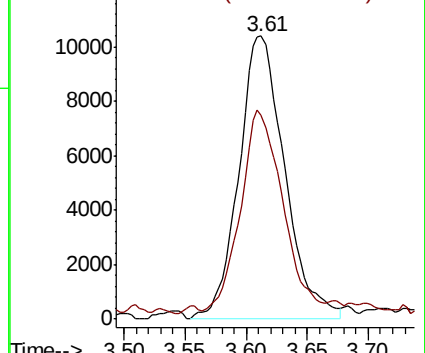
56 100

55 64.0 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 98.400 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

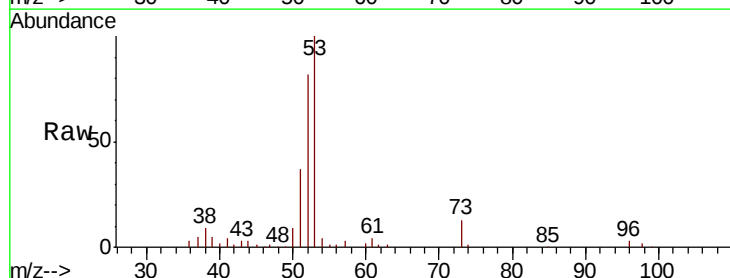
Tgt Ion: 53 Resp: 150167

Ion Ratio Lower Upper

53 100

52 82.7 18.3 54.8#

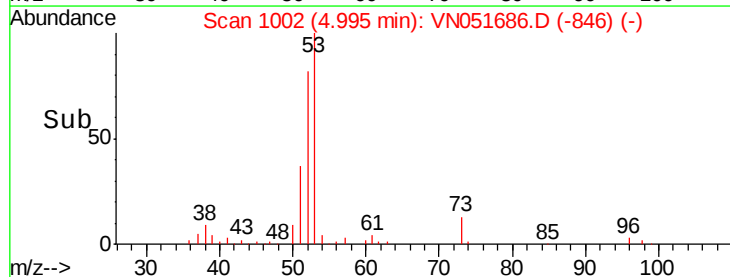
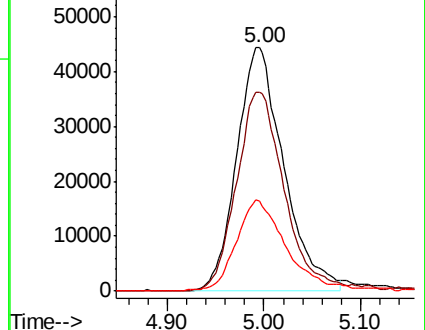
51 37.2 19.7 59.1

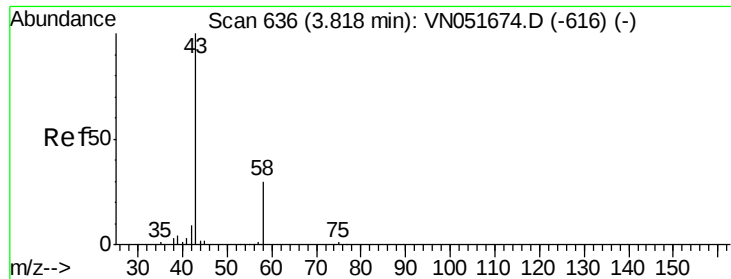


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 95.284 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

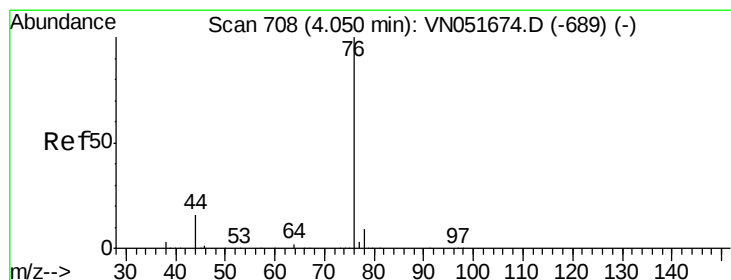
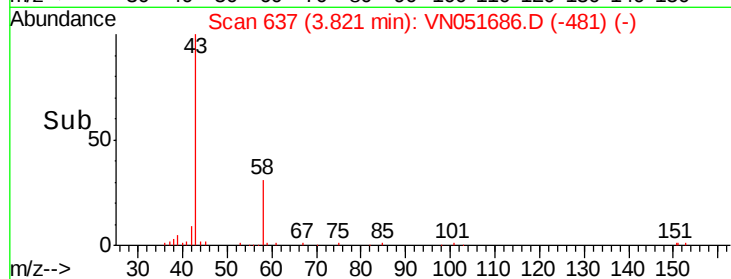
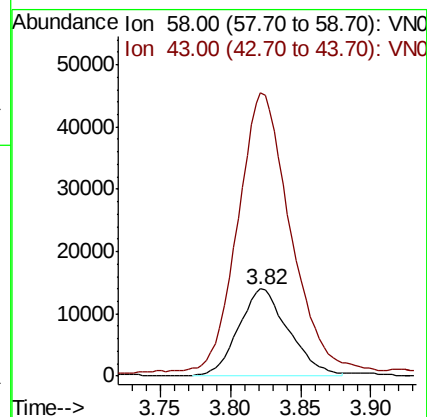
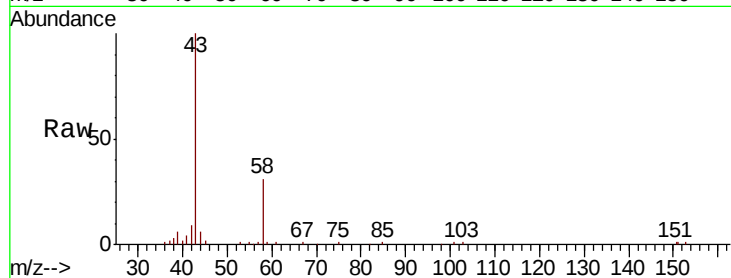
VN1005WBSD01

Tot Ion: 58 Resp: 34751

Ion Ratio Lower Upper

58 100

43 315.6 232.2 348.2



#16

Carbon Disulfide

Concen: 20.097 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051686.D

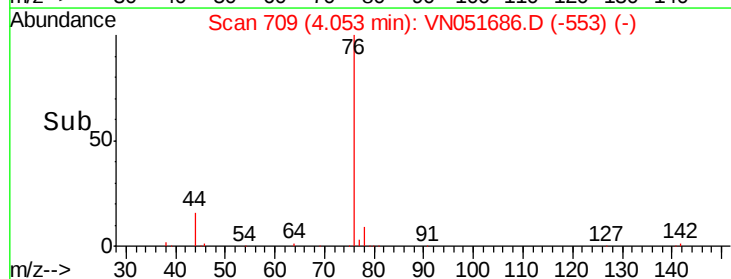
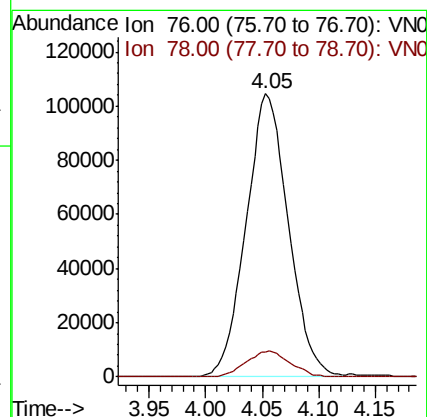
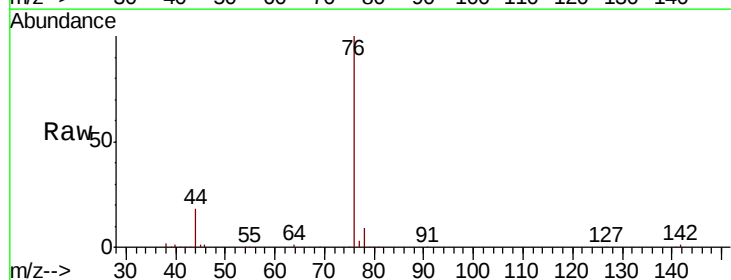
Acq: 5 Oct 2018 14:52

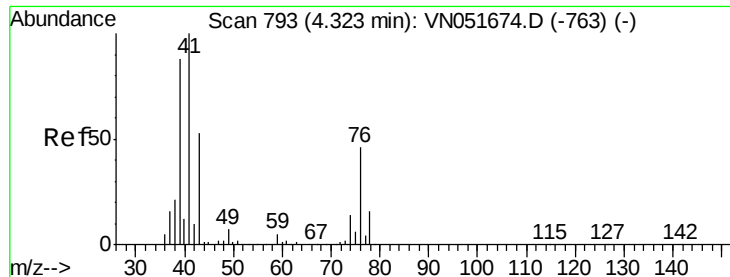
Tgt Ion: 76 Resp: 272272

Ion Ratio Lower Upper

76 100

78 8.9 6.7 10.1

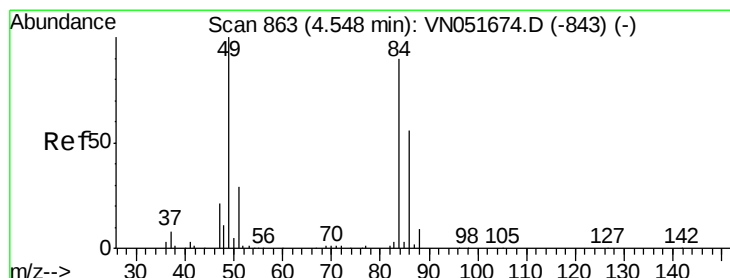
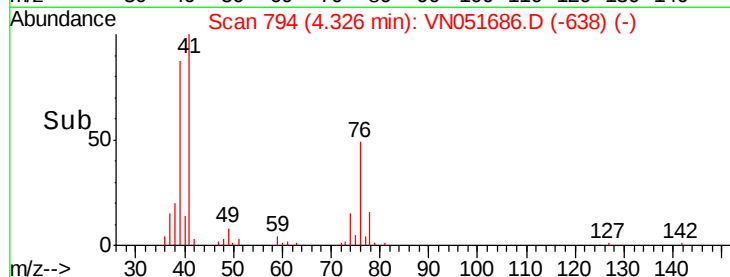
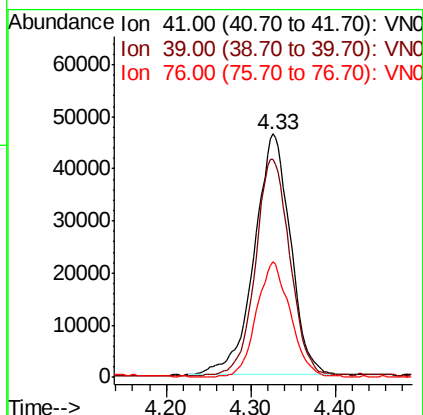
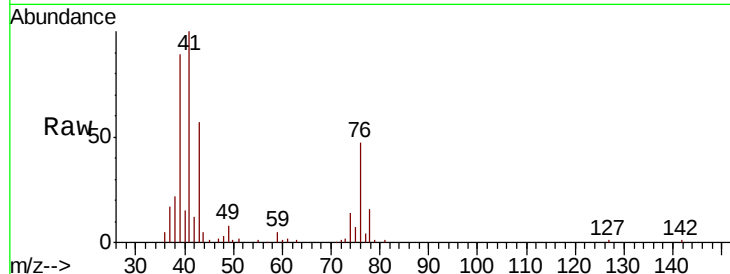




#17
Allvl chloride
Concen: 19.911 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

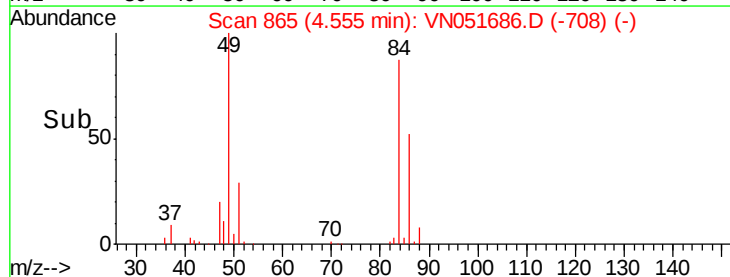
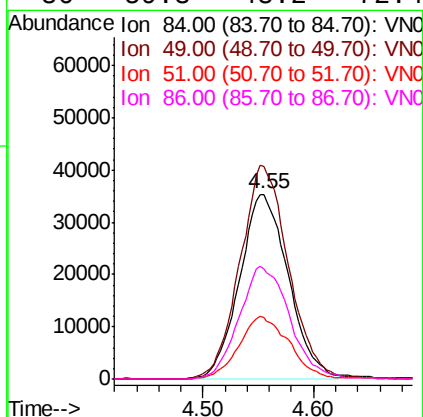
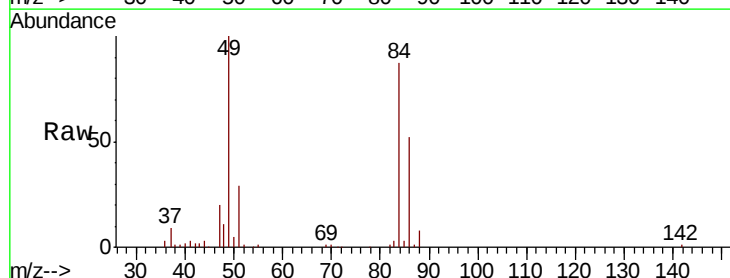
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

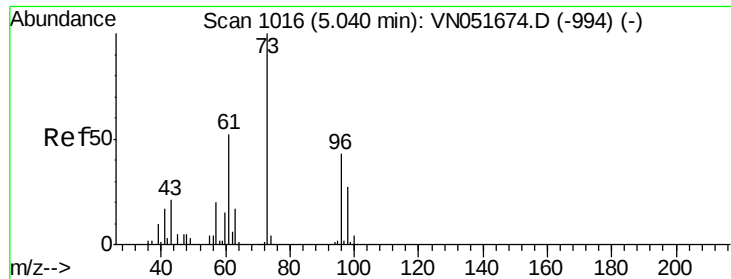
Tot Ion: 41 Resp: 137549
Ion Ratio Lower Upper
41 100
39 89.6 32.6 97.8
76 47.5 20.2 60.5



#18
Methylene Chloride
Concen: 20.322 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 84 Resp: 108596
Ion Ratio Lower Upper
84 100
49 114.3 91.6 137.4
51 33.2 29.8 44.6
86 59.3 48.2 72.4

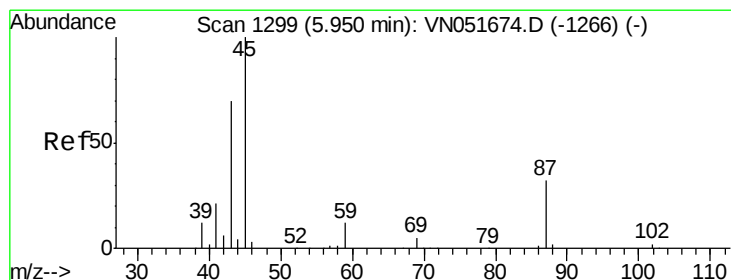
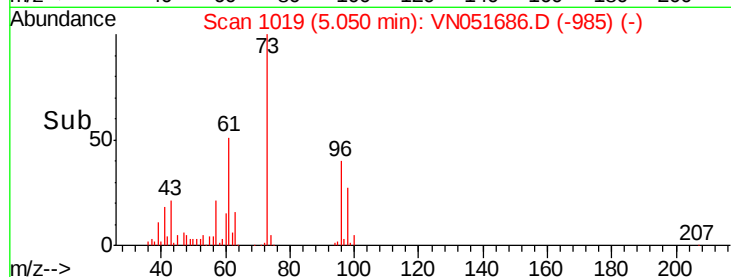
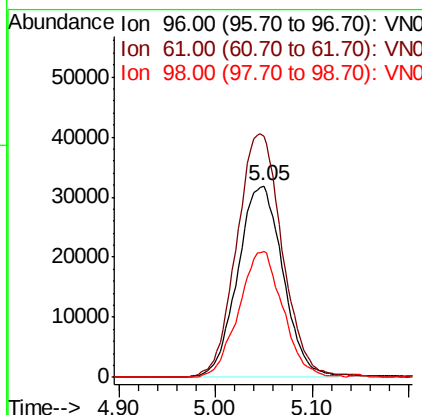
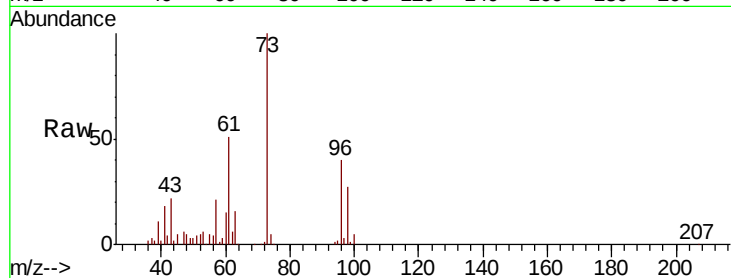




#19
trans-1,2-Dichloroethene
Concen: 19.382 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

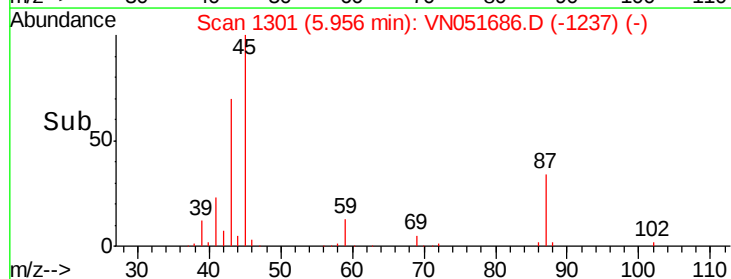
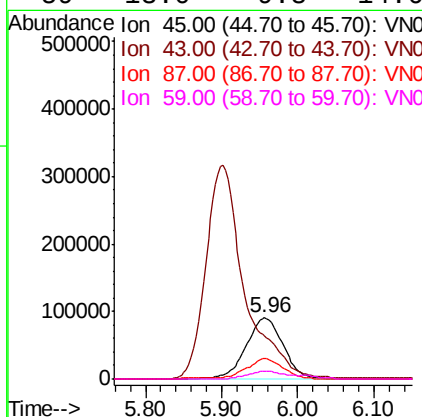
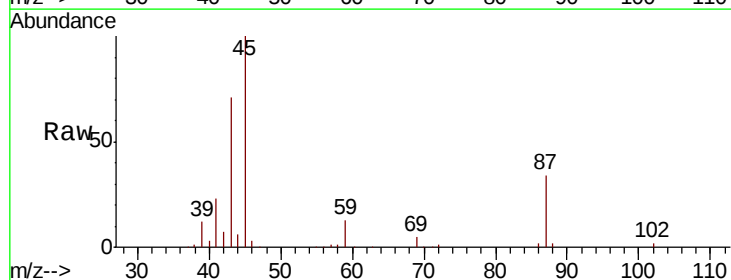
Instrument :
MSVOA_N
ClientSampled :
VN1005WBSD01

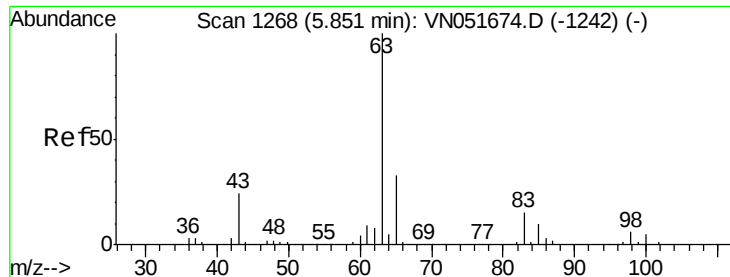
Tot Ion: 96 Resp: 103777
Ion Ratio Lower Upper
96 100
61 126.0 112.3 168.5
98 65.6 47.1 70.7



#20
Diisopropyl ether
Concen: 19.635 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.01 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 45 Resp: 304652
Ion Ratio Lower Upper
45 100
43 67.8 62.1 93.1
87 34.3 19.9 29.9#
59 13.0 9.8 14.6





#21

1,1-Dichloroethane

Concen: 19.882 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

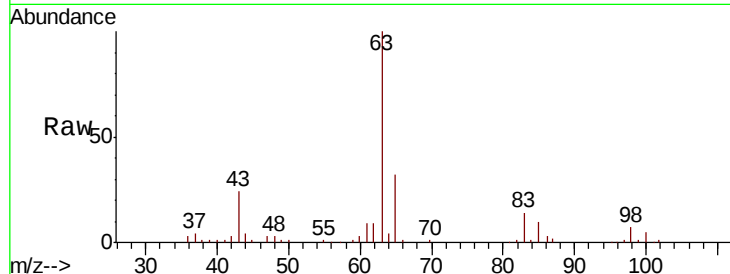
Tot Ion: 63 Resp: 192531

Ion Ratio Lower Upper

63 100

98 6.5 4.1 12.3

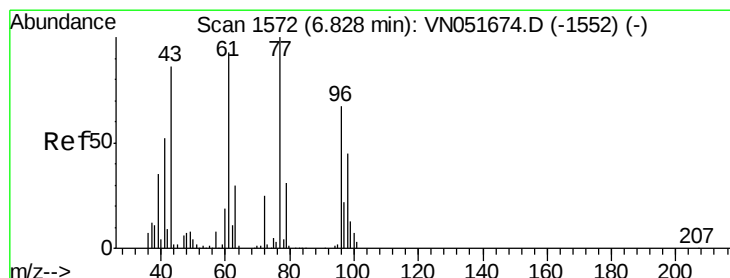
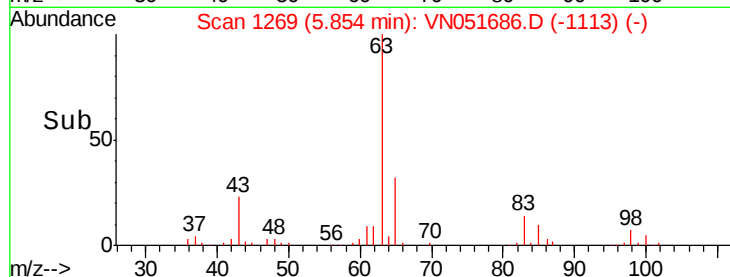
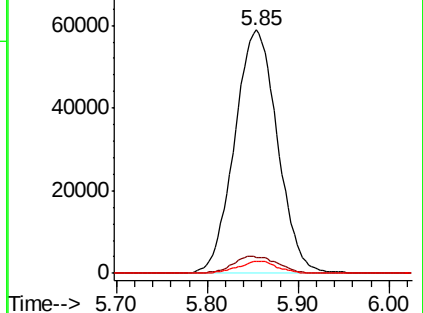
100 4.8 1.6 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VN051674.D (-1242) (-)

Ion 98.00 (97.70 to 98.70): VN051674.D (-1242) (-)

Ion 100.00 (99.70 to 100.70): VN051674.D (-1242) (-)



#22

cis-1,2-Dichloroethene

Concen: 19.872 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

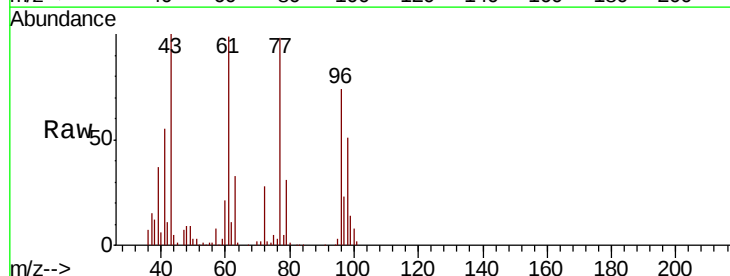
Tgt Ion: 96 Resp: 125179

Ion Ratio Lower Upper

96 100

61 136.0 124.5 186.7

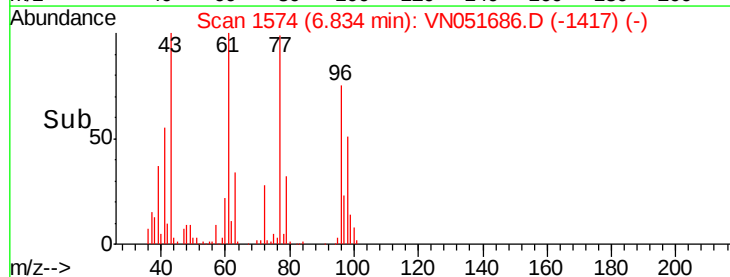
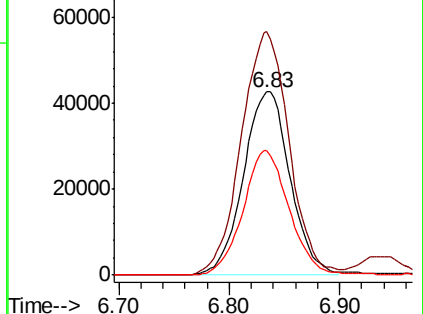
98 66.8 51.9 77.9

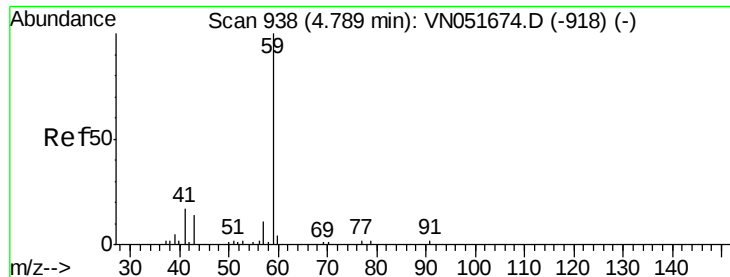


Abundance Ion 96.00 (95.70 to 96.70): VN051674.D (-1552) (-)

Ion 61.00 (60.70 to 61.70): VN051674.D (-1552) (-)

Ion 98.00 (97.70 to 98.70): VN051674.D (-1552) (-)





#23

tert-Butyl Alcohol

Concen: 107.510 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

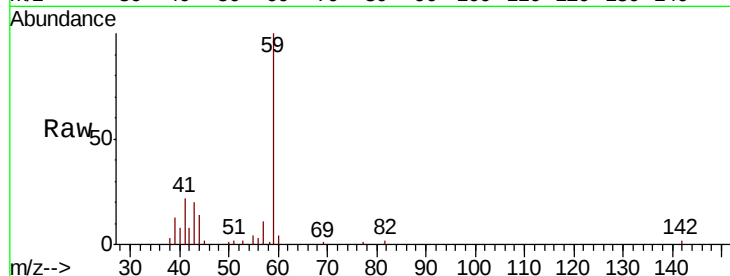
VN1005WBSD01

Tot Ion: 59 Resp: 42380

Ion Ratio Lower Upper

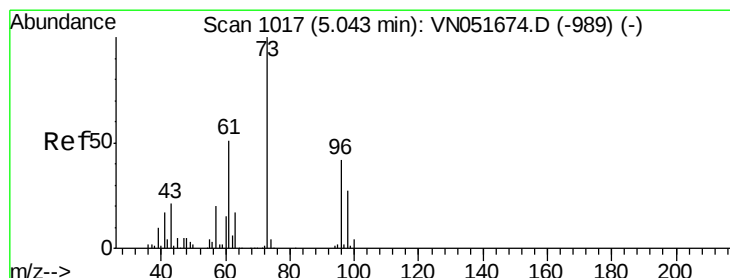
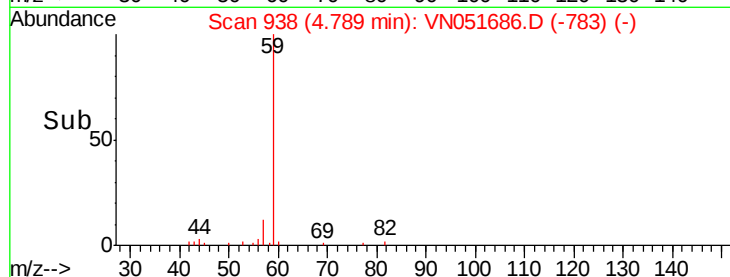
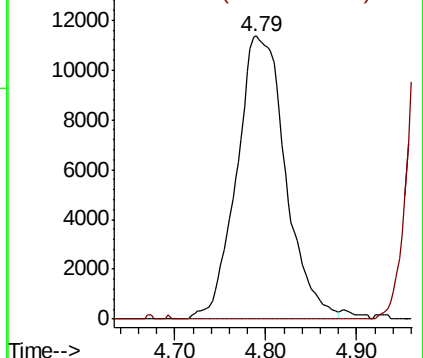
59 100

52 0.1 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 19.696 ug/l

RT: 5.05 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VN051686.D

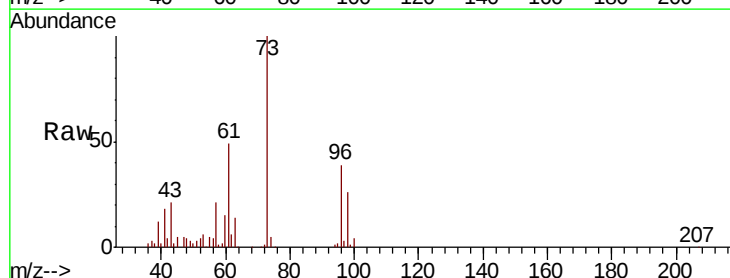
Acq: 5 Oct 2018 14:52

Tgt Ion: 73 Resp: 299542

Ion Ratio Lower Upper

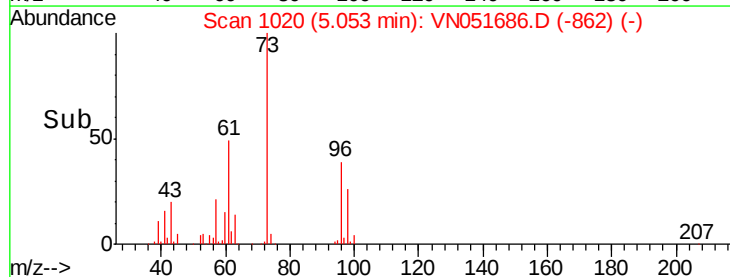
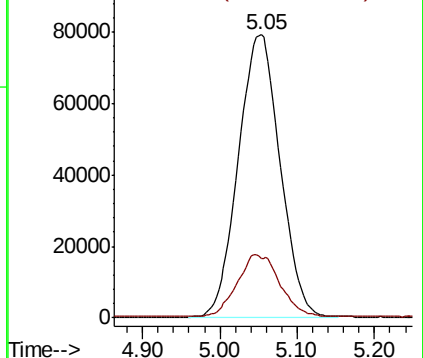
73 100

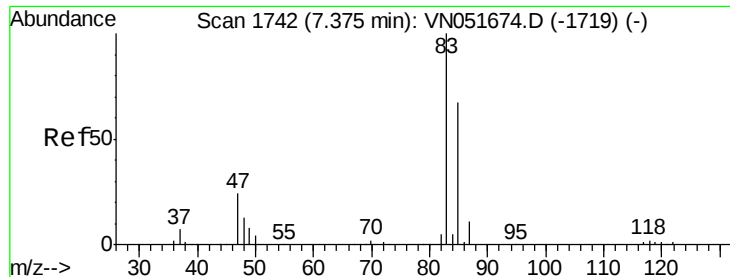
43 13.3 5.4 8.0#



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

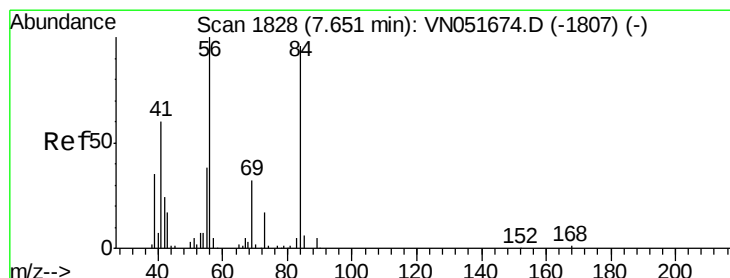
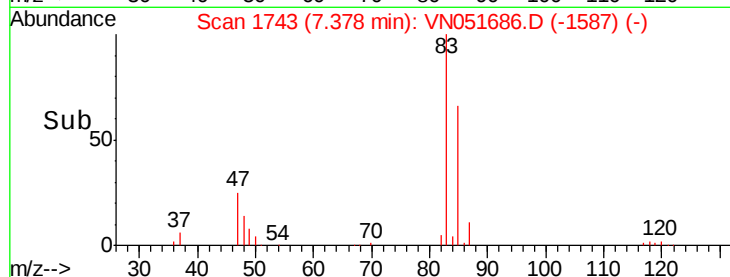
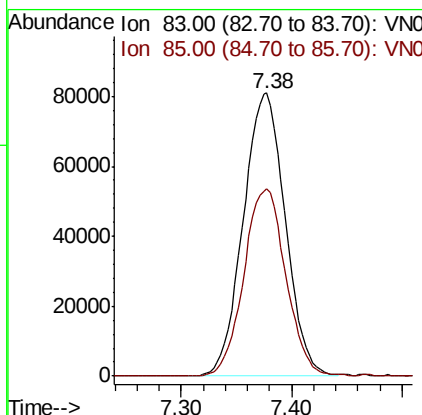
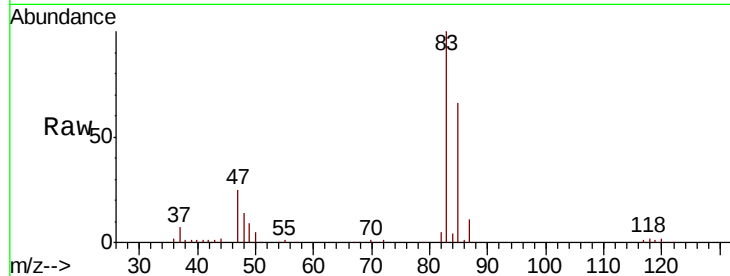




#25
Chloroform
Concen: 19.511 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

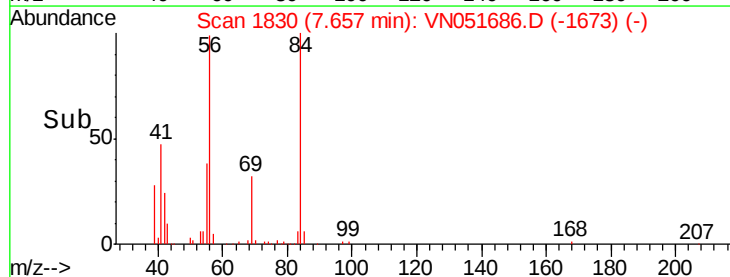
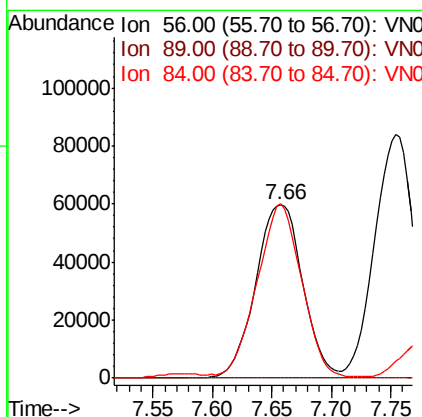
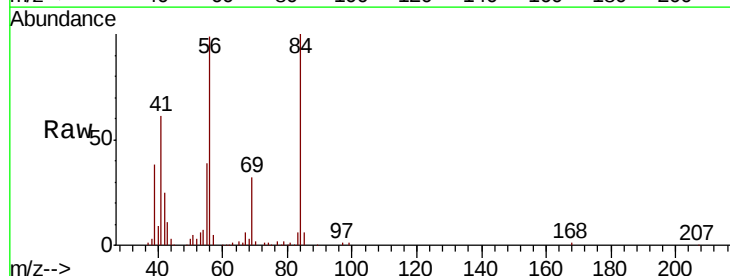
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

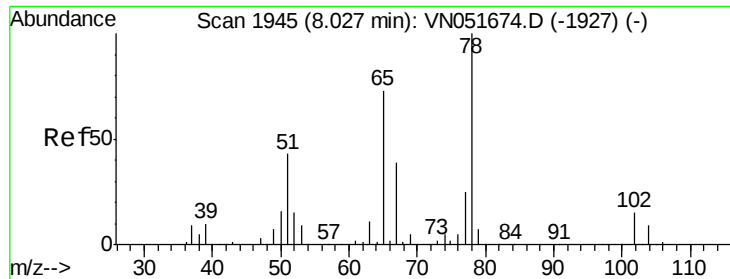
Tot Ion: 83 Resp: 213627
Ion Ratio Lower Upper
83 100
85 66.3 54.6 82.0



#26
Cyclohexane
Concen: 19.907 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 56 Resp: 163808
Ion Ratio Lower Upper
56 100
89 0.1 1.5 2.3#
84 95.6 64.2 96.4





#27

1,2-Dichloroethane-d4

Concen: 19.907 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

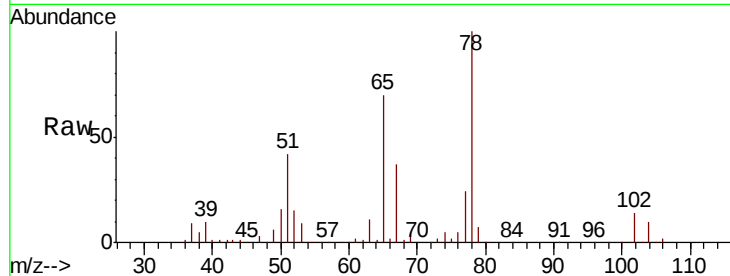
VN1005WBSD01

Tot Ion: 65 Resp: 213740

Ion Ratio Lower Upper

65 100

67 51.8 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051674.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051674.D (-1927) (-)

8.03

100000

80000

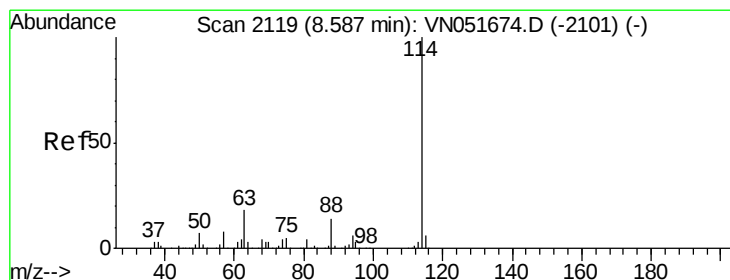
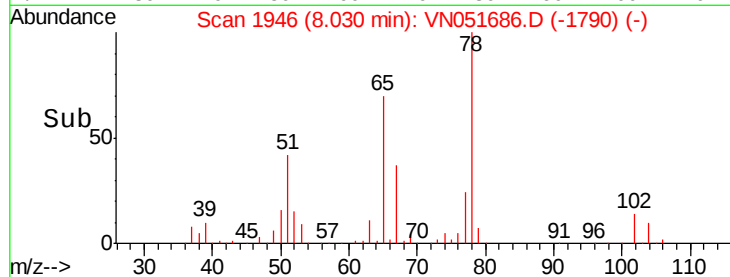
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

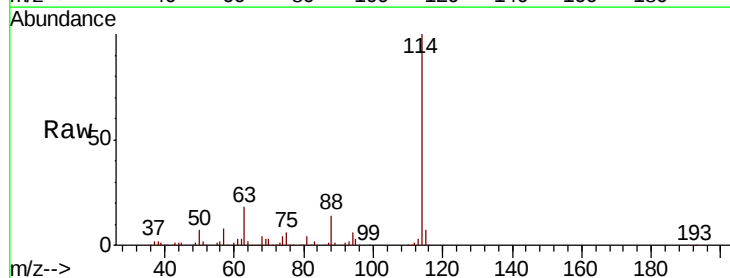
Tgt Ion: 114 Resp: 590914

Ion Ratio Lower Upper

114 100

63 18.2 16.2 24.2

88 14.6 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051674.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051674.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051674.D (-2101) (-)

8.59

400000

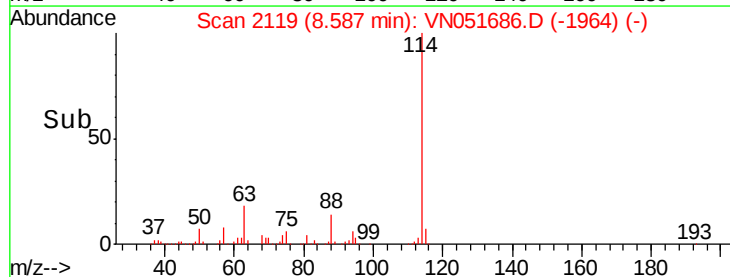
300000

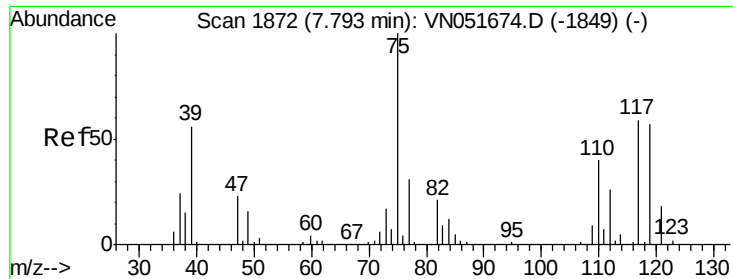
200000

100000

0

Time-->

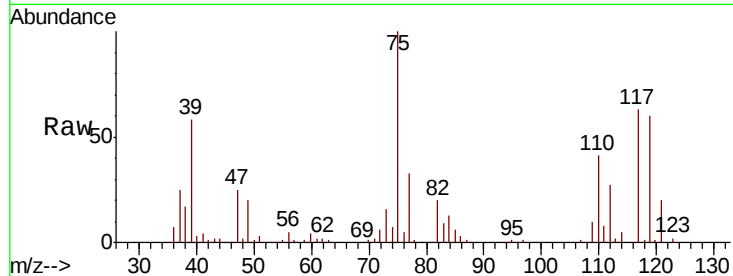




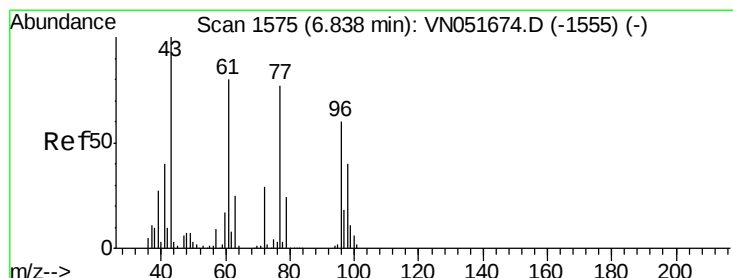
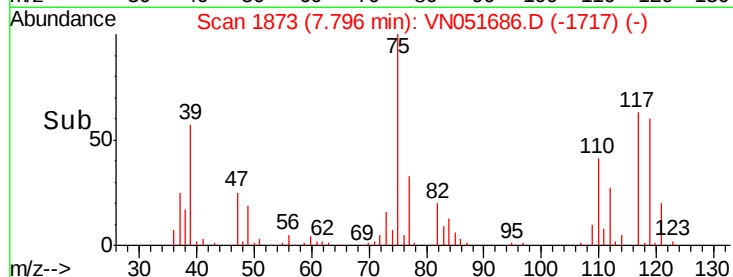
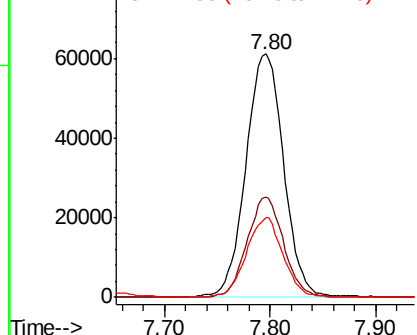
#29
 1,1-Dichloropropene
 Concen: 19.448 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBSD01

Tot Ion: 75 Resp: 152739
 Ion Ratio Lower Upper
 75 100
 110 39.7 0.0 70.8
 77 31.8 0.0 61.6

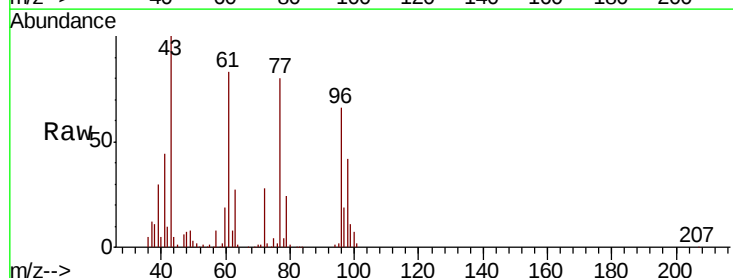


Abundance Ion 75.00 (74.70 to 75.70): VN0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VN0

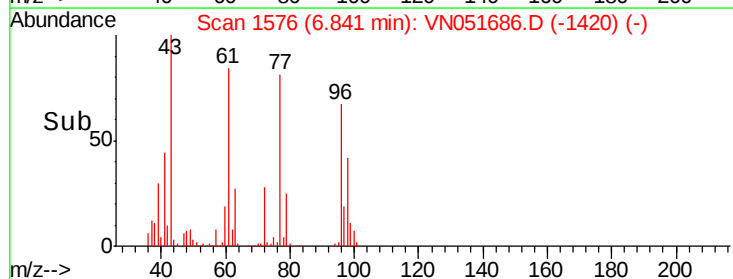
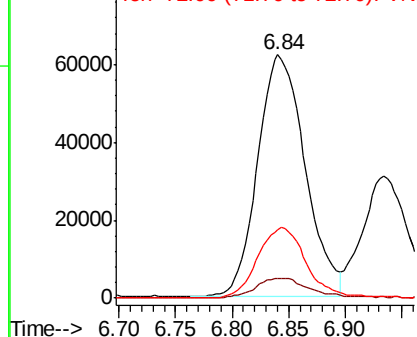


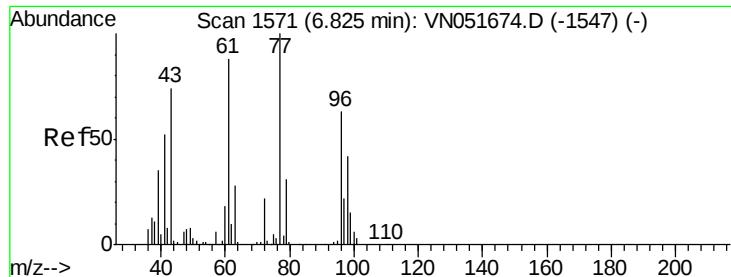
#30
 2-Butanone
 Concen: 94.515 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Tgt Ion: 43 Resp: 180780
 Ion Ratio Lower Upper
 43 100
 57 4.7 4.5 6.7
 72 29.4 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0





#31

2,2-Dichloropropane

Concen: 18.888 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

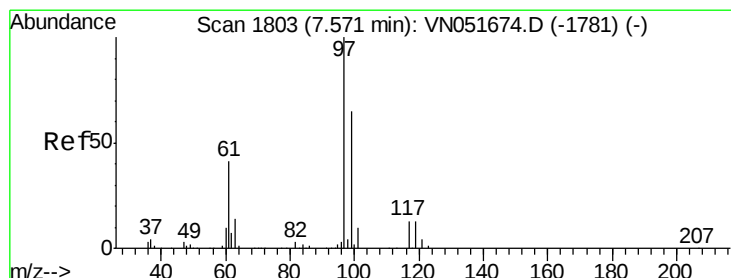
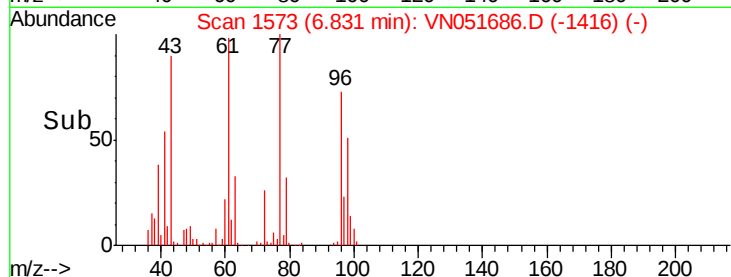
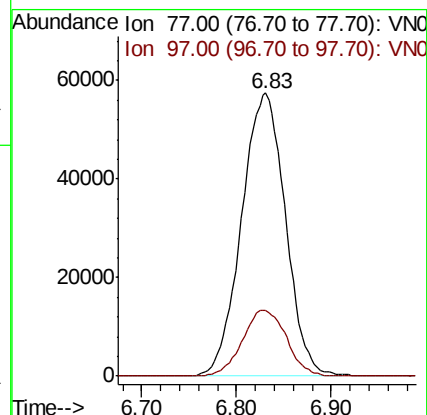
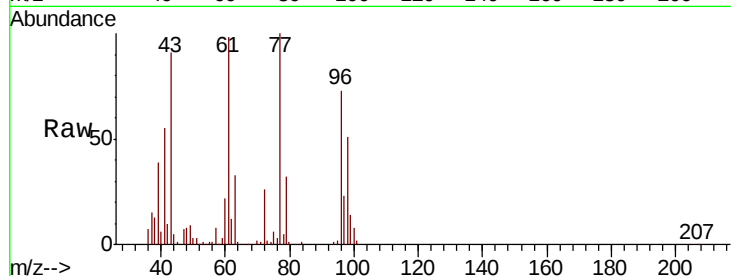
VN1005WBSD01

Tot Ion: 77 Resp: 184802

Ion Ratio Lower Upper

77 100

97 23.4 12.0 18.0#



#32

1,1,1-Trichloroethane

Concen: 19.518 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

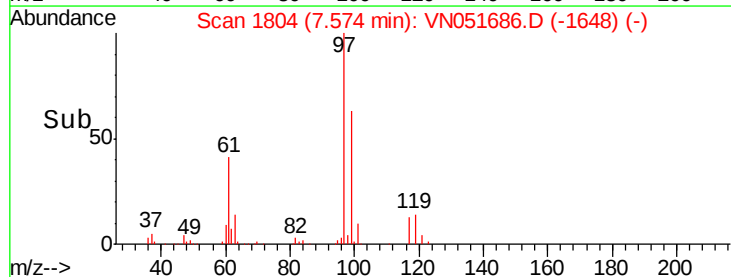
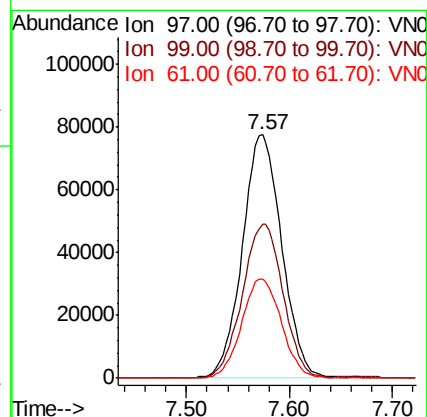
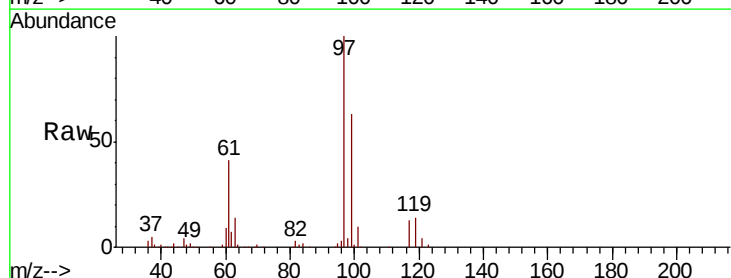
Tgt Ion: 97 Resp: 206143

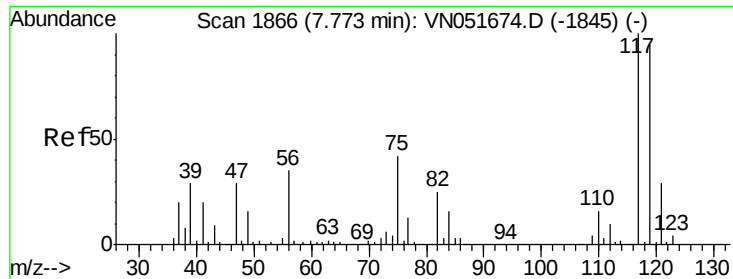
Ion Ratio Lower Upper

97 100

99 65.1 51.6 77.4

61 41.1 37.4 56.0

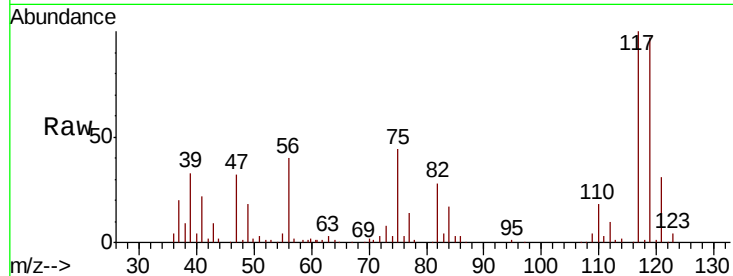




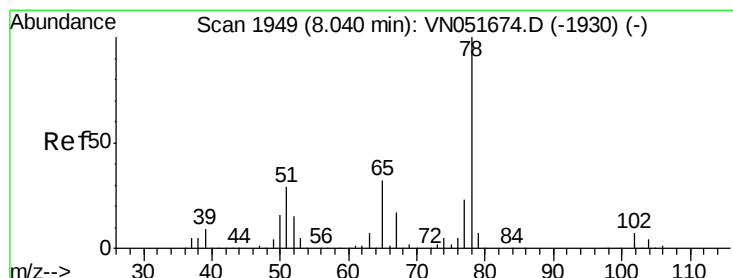
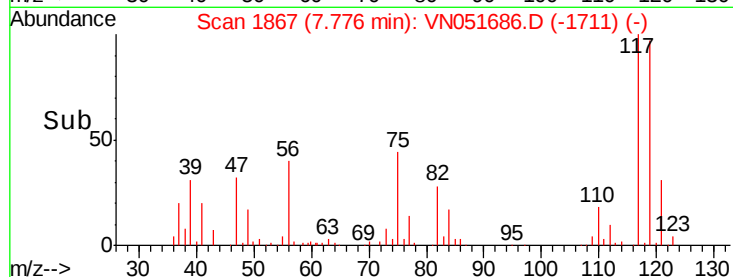
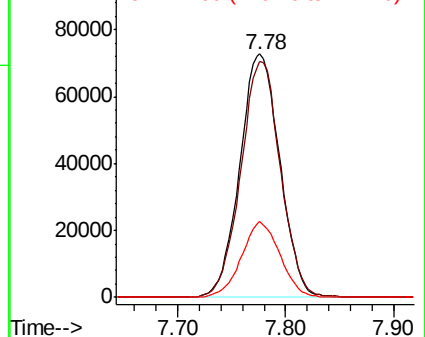
#33
Carbon Tetrachloride
Concen: 19.595 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

Tot Ion:117 Resp: 187623
Ion Ratio Lower Upper
117 100
119 96.7 85.1 127.7
121 30.9 24.2 36.2

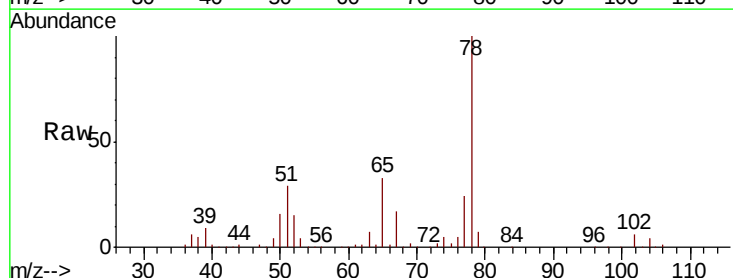


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

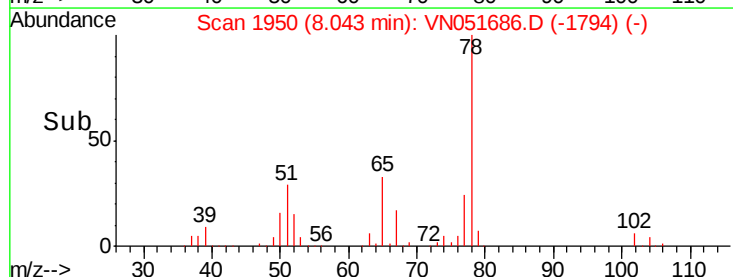
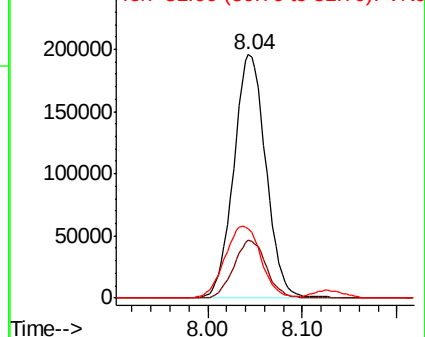


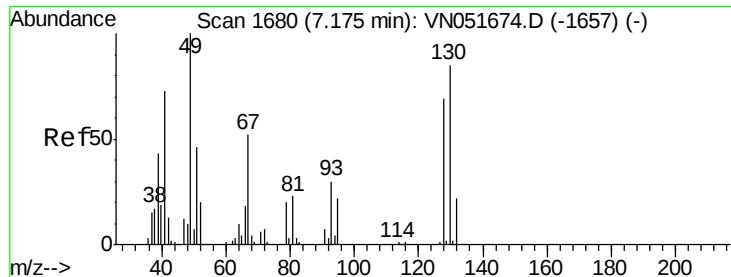
#34
Benzene
Concen: 19.466 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 78 Resp: 462474
Ion Ratio Lower Upper
78 100
77 23.6 18.8 28.2
51 28.4 46.2 69.4#



Abundance Ion 78.10 (77.80 to 78.80): V
Ion 77.00 (76.70 to 77.70): V
Ion 51.00 (50.70 to 51.70): V

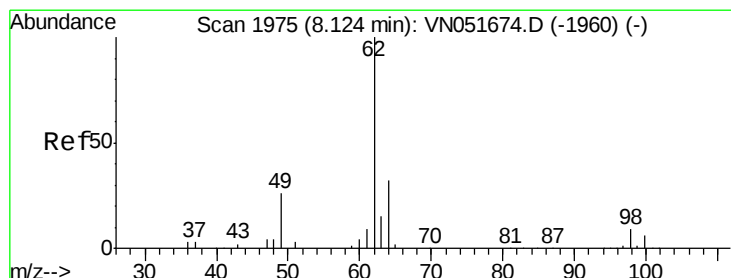
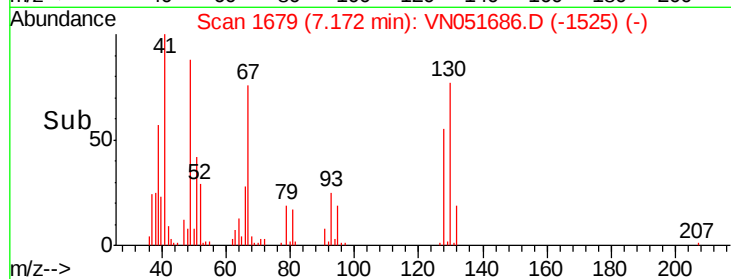
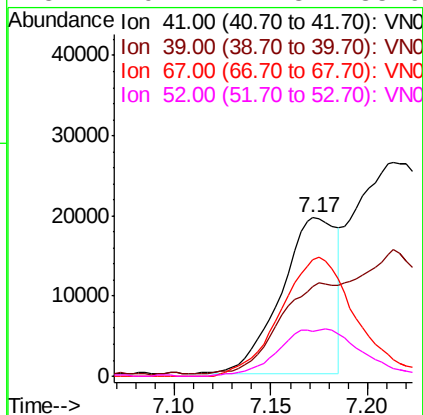
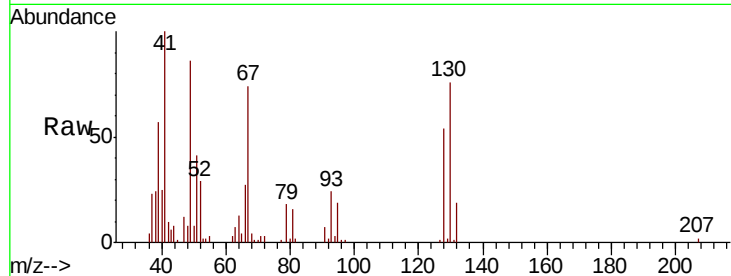




#35
Methacrylonitrile
Concen: 18.433 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

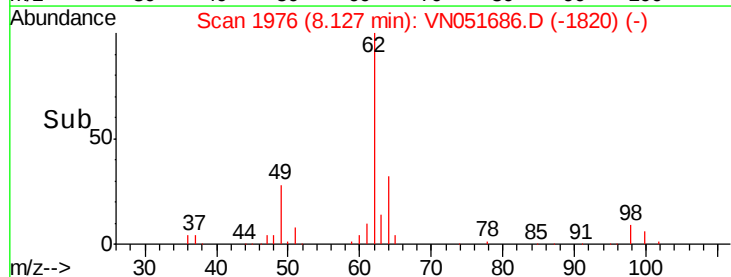
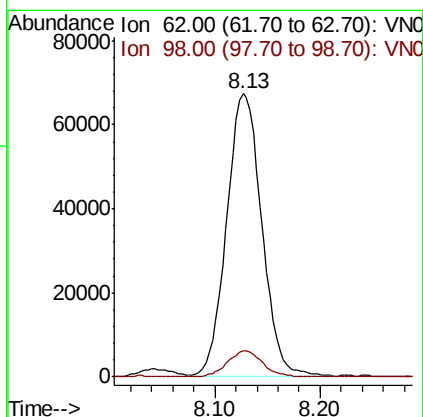
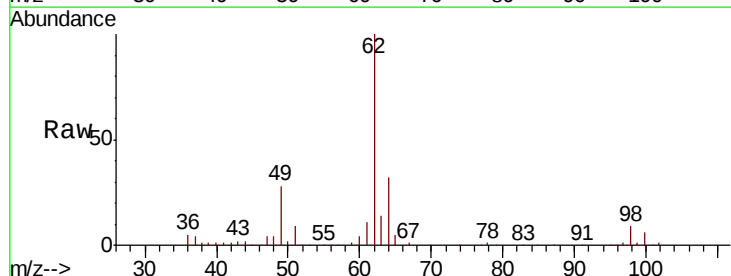
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

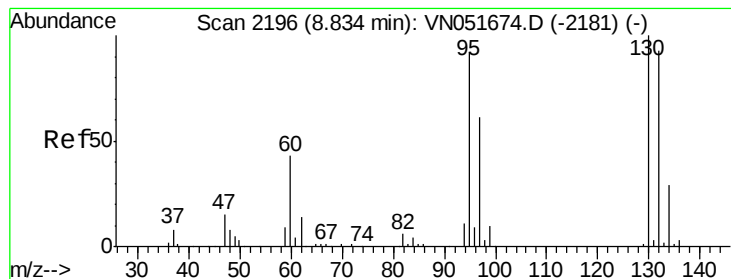
Tot Ion: 41 Resp: 38911
Ion Ratio Lower Upper
41 100
39 56.1 22.6 67.7
67 75.0 28.9 86.8
52 29.2 11.3 33.9



#36
1,2-Dichloroethane
Concen: 19.572 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 62 Resp: 155627
Ion Ratio Lower Upper
62 100
98 9.3 6.9 10.3





#37

Trichloroethene

Concen: 19.930 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

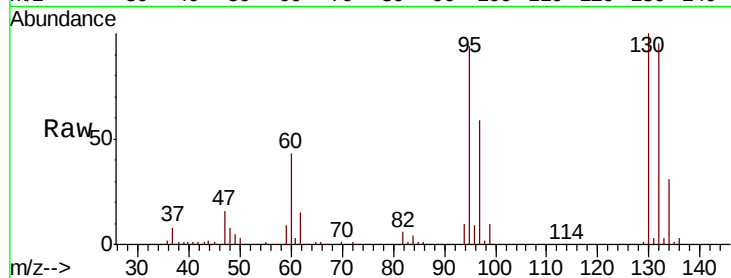
VN1005WBSD01

Tot Ion:130 Resp: 131663

Ion Ratio Lower Upper

130 100

95 93.5 76.4 114.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

60000

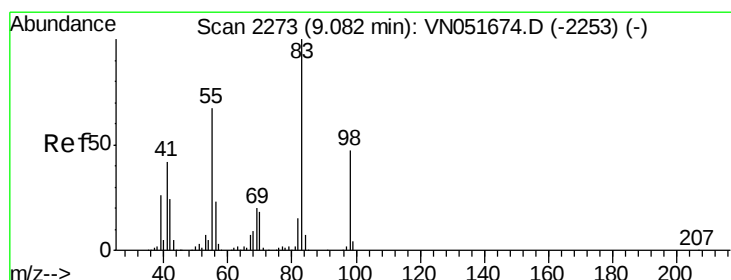
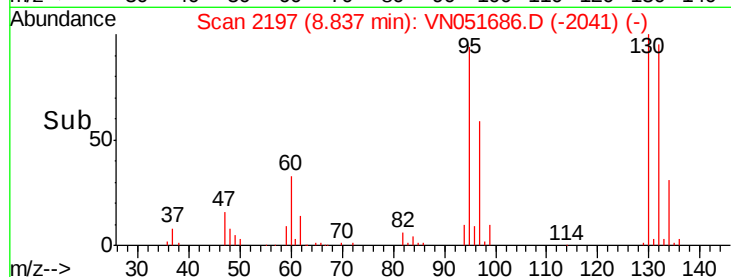
40000

20000

0

Time-->

8.75 8.80 8.85 8.90



#38

Methylcyclohexane

Concen: 19.057 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

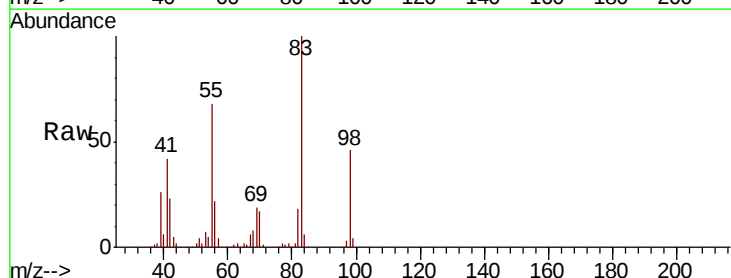
Tgt Ion: 83 Resp: 189527

Ion Ratio Lower Upper

83 100

55 67.7 43.0 129.2

98 47.2 21.3 63.7



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

120000

100000

80000

60000

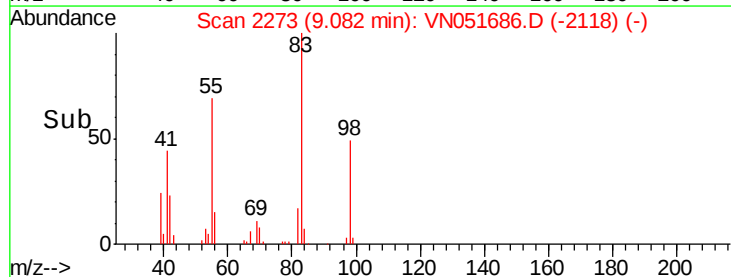
40000

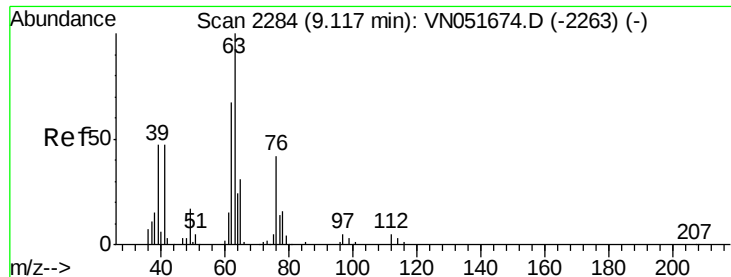
20000

0

Time-->

9.00 9.05 9.10 9.15 9.20





#39

1,2-Dichloropropane

Concen: 19.745 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

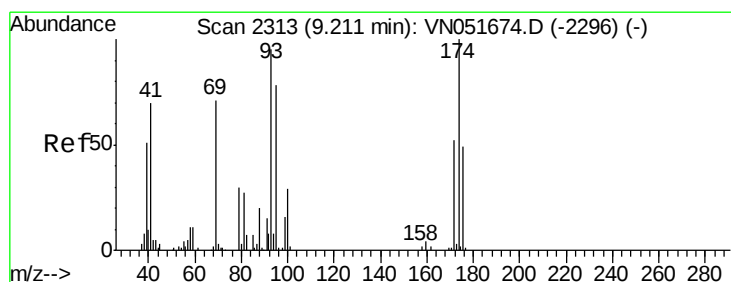
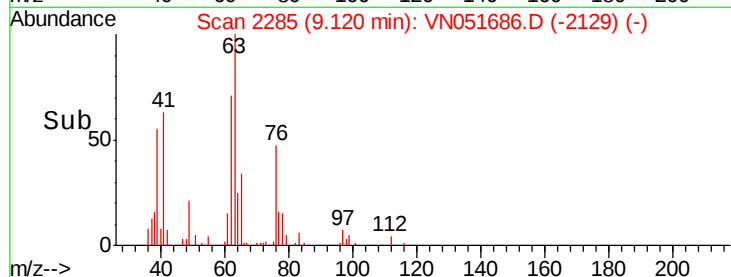
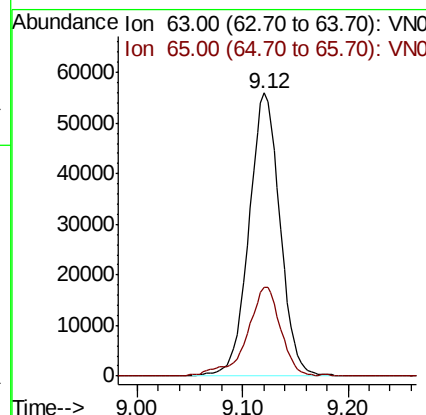
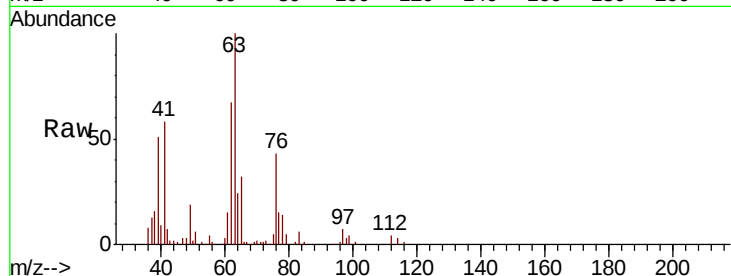
VN1005WBSD01

Tot Ion: 63 Resp: 114896

Ion Ratio Lower Upper

63 100

65 31.6 23.2 34.8



#40

Dibromomethane

Concen: 19.627 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

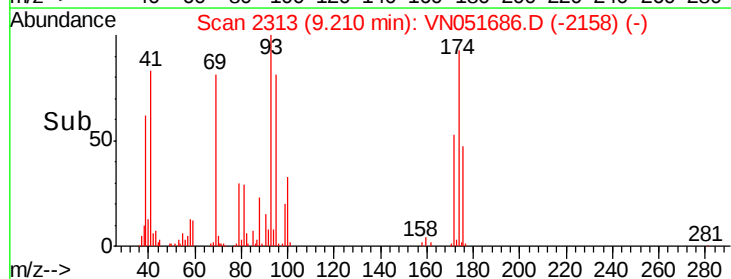
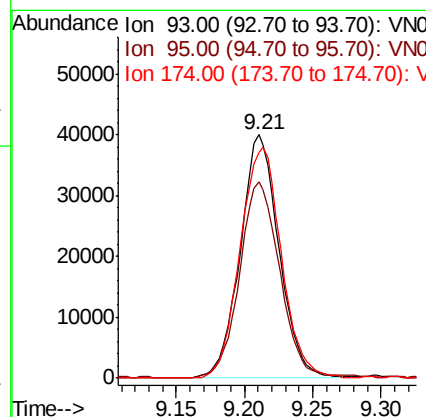
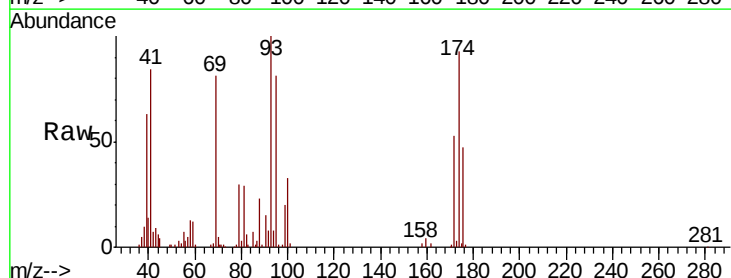
Tgt Ion: 93 Resp: 79012

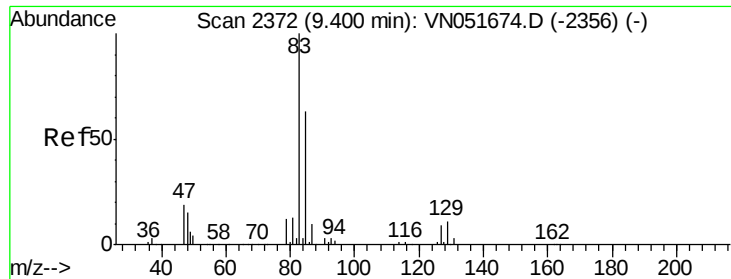
Ion Ratio Lower Upper

93 100

95 83.4 0.0 162.0

174 100.7 0.0 214.0

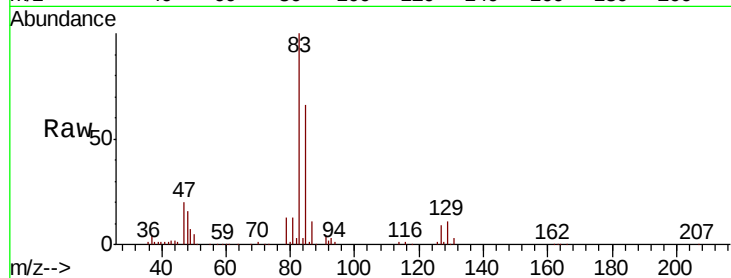




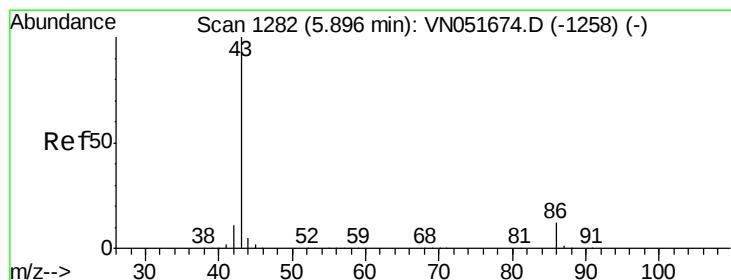
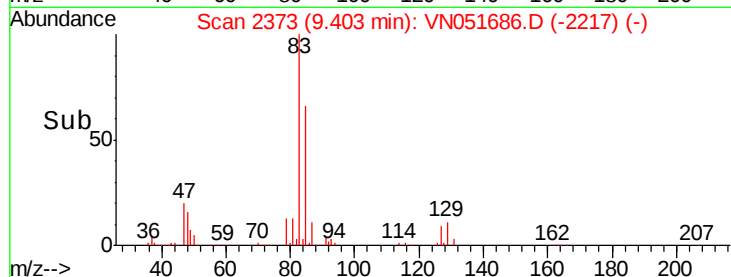
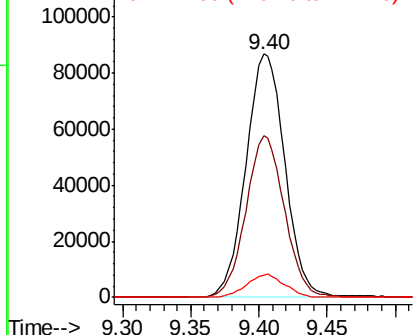
#41
 Bromodichloromethane
 Concen: 19.157 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBSD01

Tot Ion: 83 Resp: 172104
 Ion Ratio Lower Upper
 83 100
 85 66.3 55.7 83.5
 127 9.3 8.2 12.4

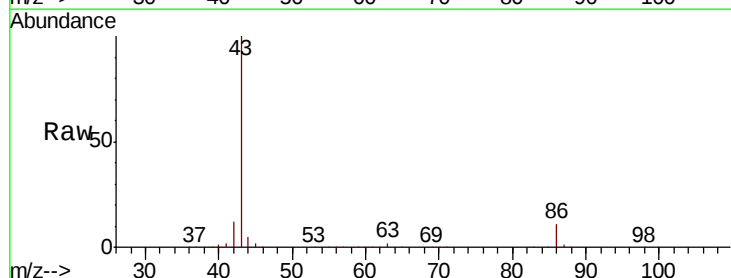


Abundance Ion 83.00 (82.70 to 83.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0
 Ion 127.00 (126.70 to 127.70): V

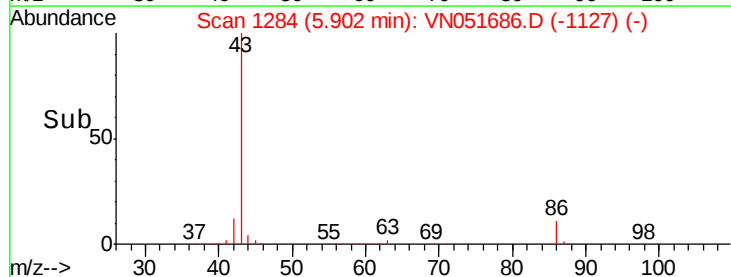
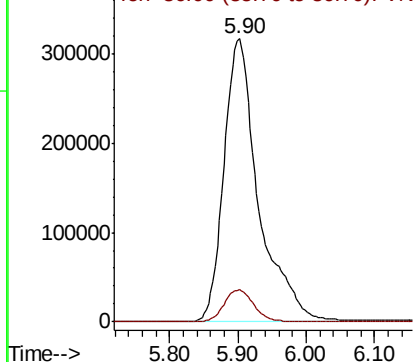


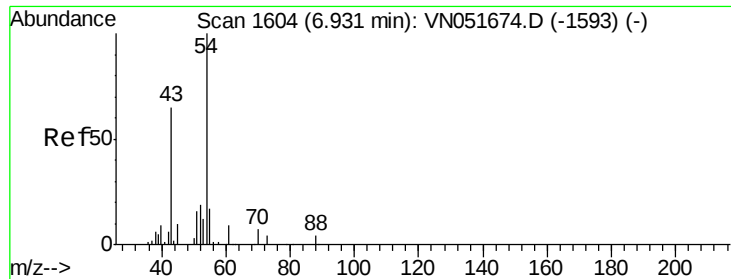
#42
 Vinyl Acetate
 Concen: 98.862 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.01 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Tgt Ion: 43 Resp: 1114191
 Ion Ratio Lower Upper
 43 100
 86 9.8 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 86.00 (85.70 to 86.70): VN0

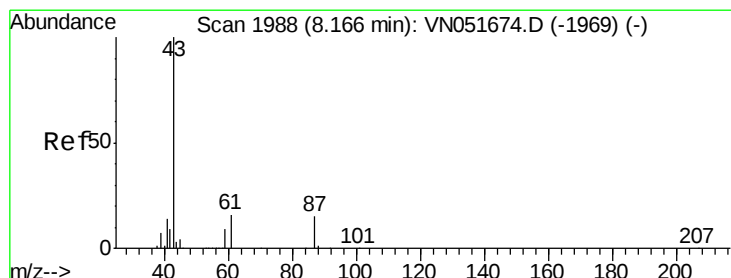
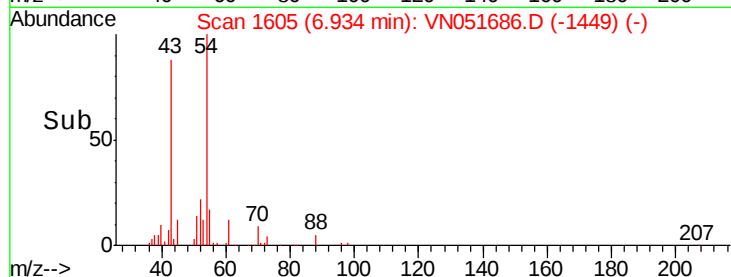
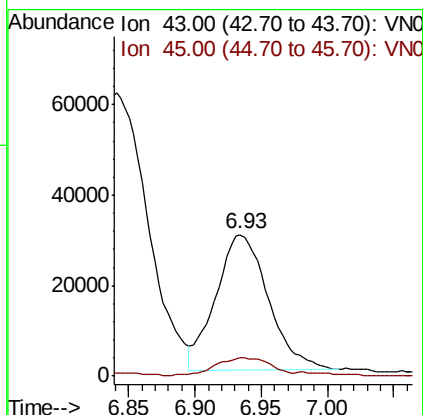
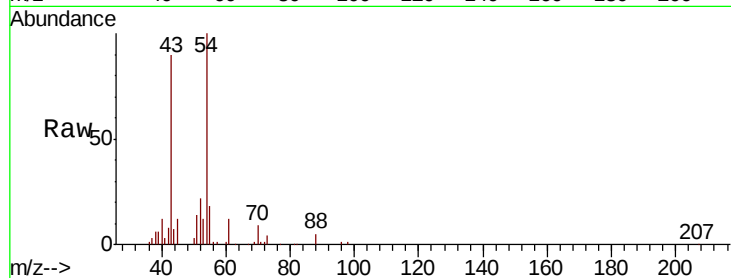




#43
Ethyl Acetate
Concen: 20.579 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

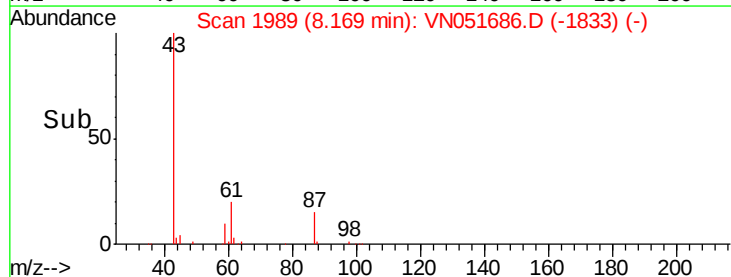
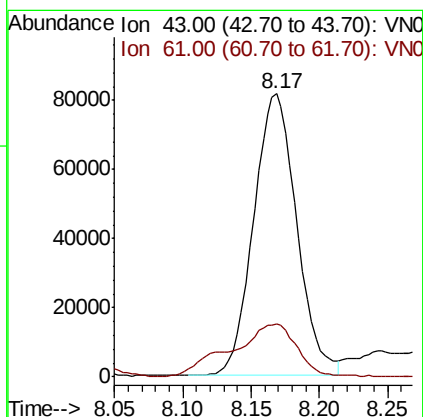
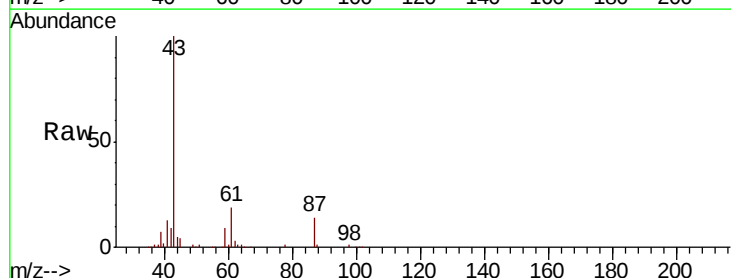
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

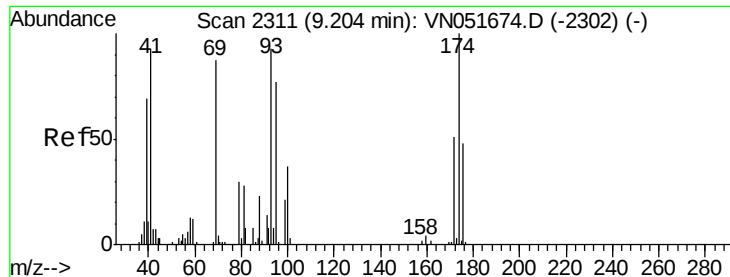
Tot Ion: 43 Resp: 82822
Ion Ratio Lower Upper
43 100
45 8.6 11.0 16.6#



#44
Isopropyl Acetate
Concen: 20.094 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 43 Resp: 178858
Ion Ratio Lower Upper
43 100
61 18.0 15.9 23.9





#45

1,4-Dioxane

Concen: 395.922 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

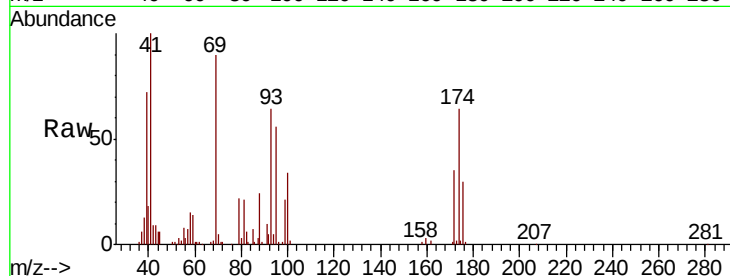
Tot Ion: 88 Resp: 22267

Ion Ratio Lower Upper

88 100

43 36.0 26.2 39.2

58 58.3 65.6 98.4#

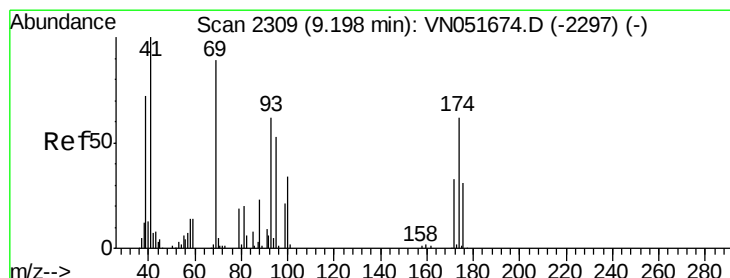
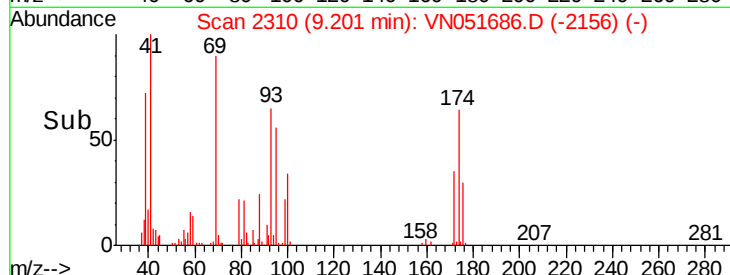
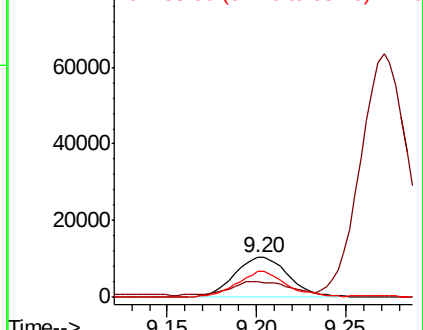


Abundance

Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#46

Methyl methacrylate

Concen: 20.089 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

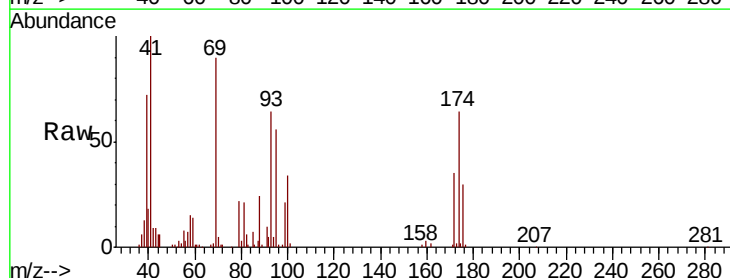
Tgt Ion: 41 Resp: 79720

Ion Ratio Lower Upper

41 100

69 91.0 40.7 122.1

39 71.8 27.3 81.9

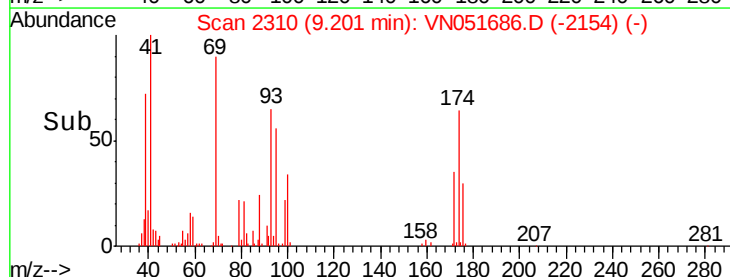
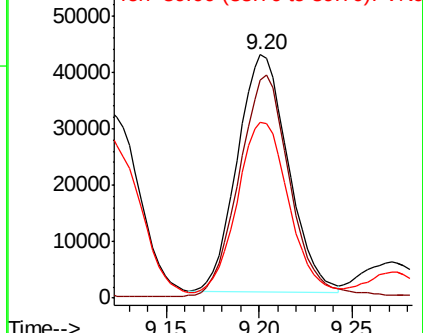


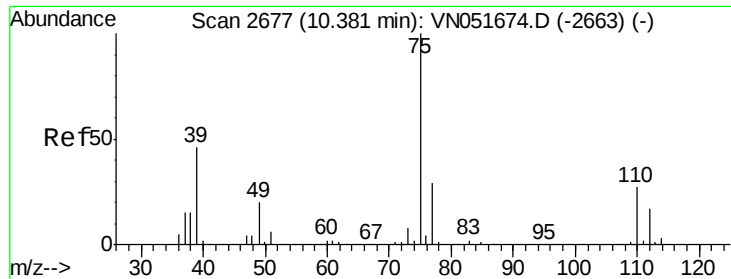
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#48

t-1,3-Dichloropropene

Concen: 18.473 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampled :

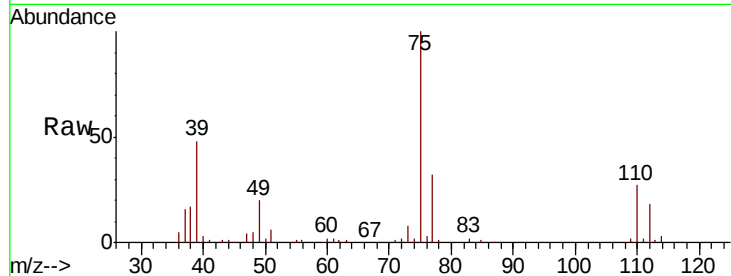
VN1005WBSD01

Tot Ion: 75 Resp: 167900

Ion Ratio Lower Upper

75 100

77 31.1 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

80000

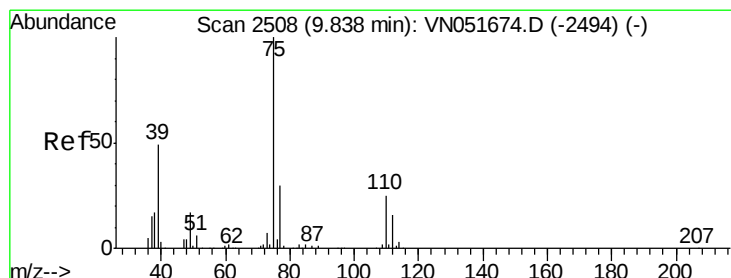
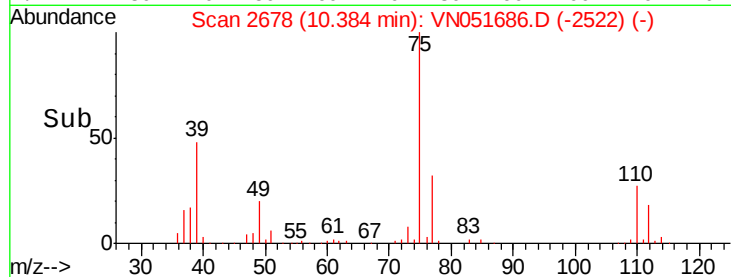
60000

40000

20000

0

Time-->



#49

cis-1,3-Dichloropropene

Concen: 18.790 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

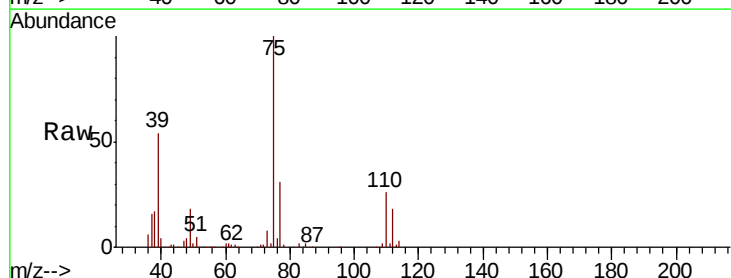
Tgt Ion: 75 Resp: 184061

Ion Ratio Lower Upper

75 100

77 31.0 23.2 34.8

39 53.9 34.6 52.0#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

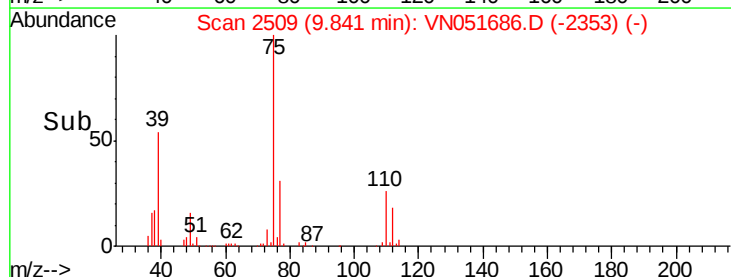
9.84

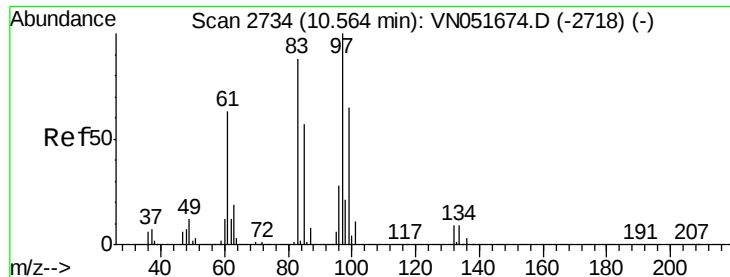
100000

50000

0

Time-->





#50

1,1,2-Trichloroethane

Concen: 19.045 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

Tot Ion: 97 Resp: 108127

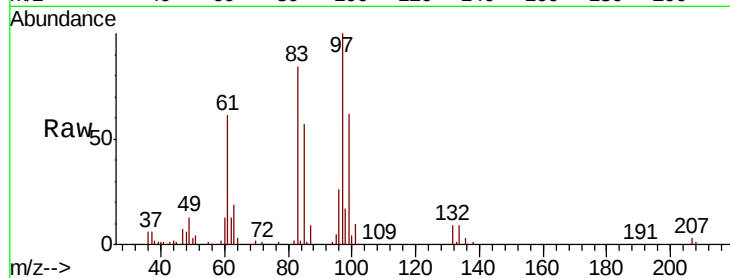
Ion Ratio Lower Upper

97 100

83 83.7 68.2 102.4

85 57.1 42.5 63.7

99 61.8 44.3 66.5

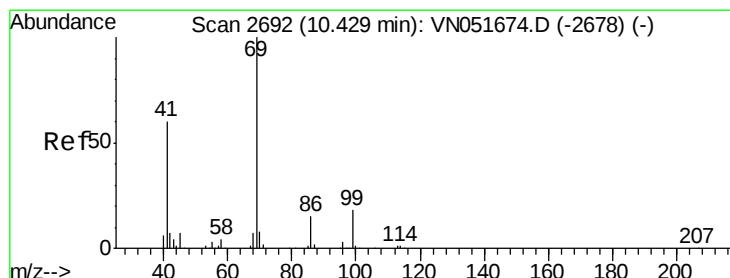
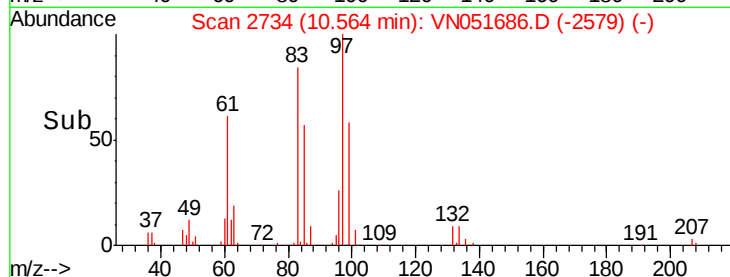
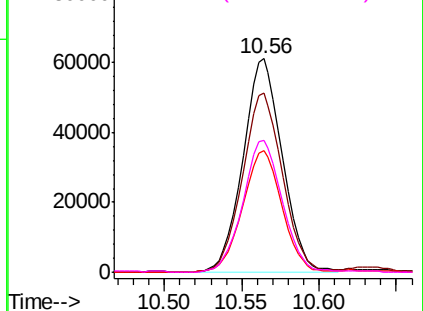


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0



#51

Ethyl methacrylate

Concen: 18.391 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

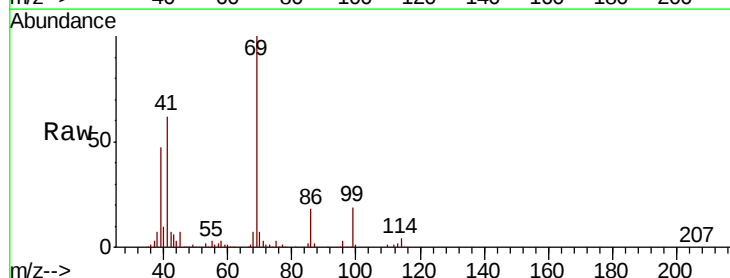
Tgt Ion: 69 Resp: 132790

Ion Ratio Lower Upper

69 100

41 61.2 34.4 103.1

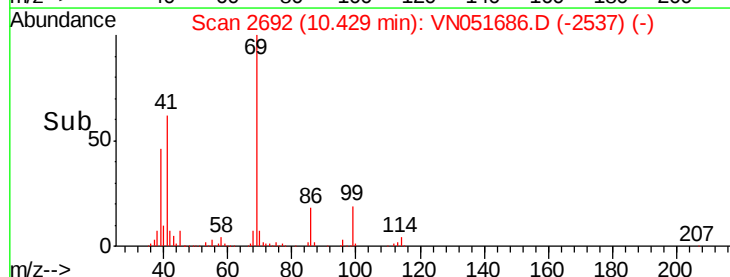
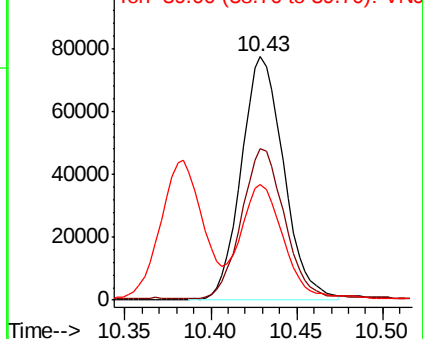
39 45.4 16.3 48.8

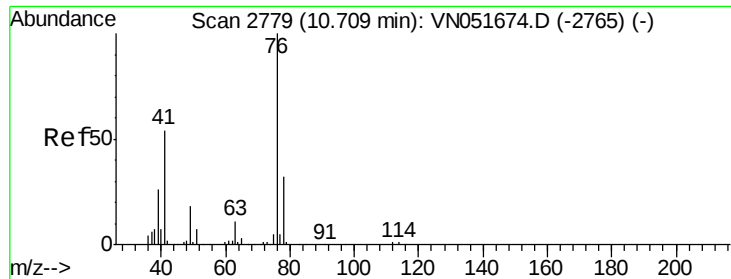


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#52

1,3-Dichloropropane

Concen: 18.955 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampled :

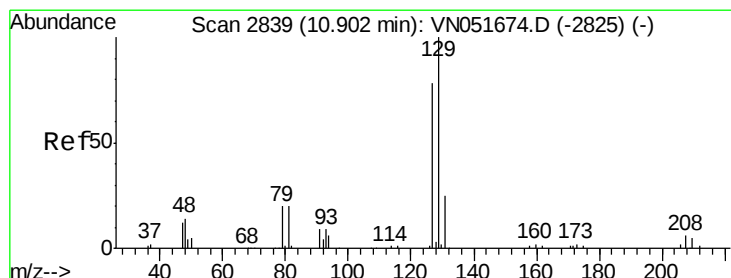
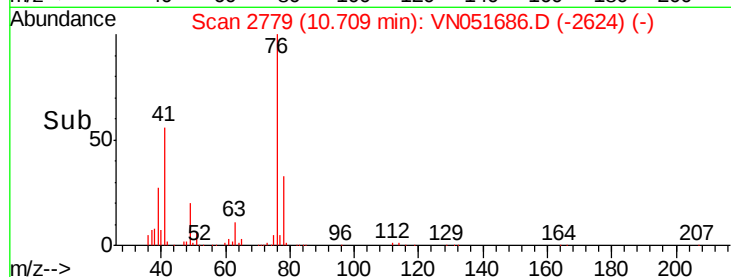
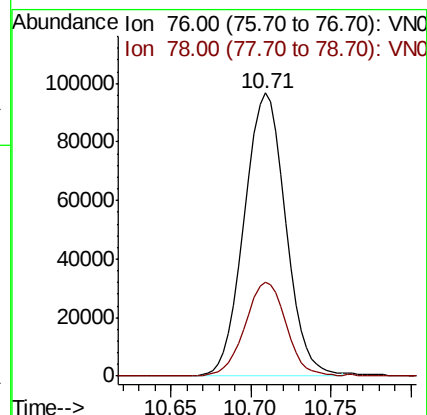
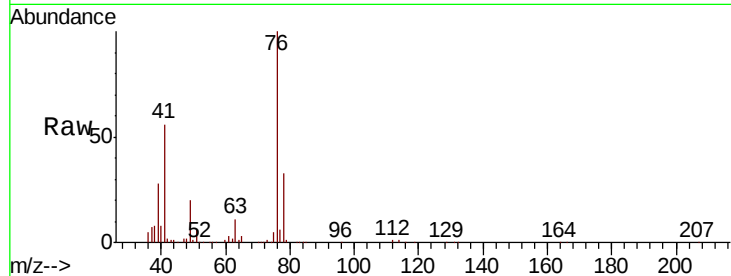
VN1005WBSD01

Tot Ion: 76 Resp: 171380

Ion Ratio Lower Upper

76 100

78 32.9 0.0 67.6



#53

Dibromochloromethane

Concen: 17.923 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN051686.D

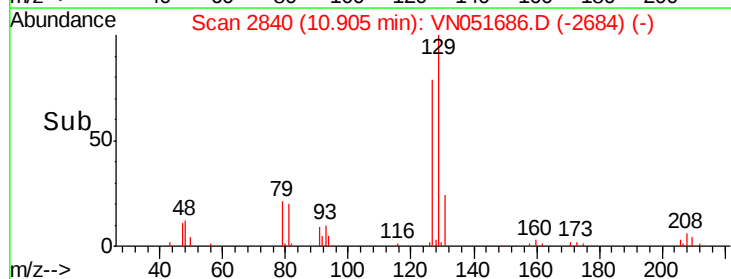
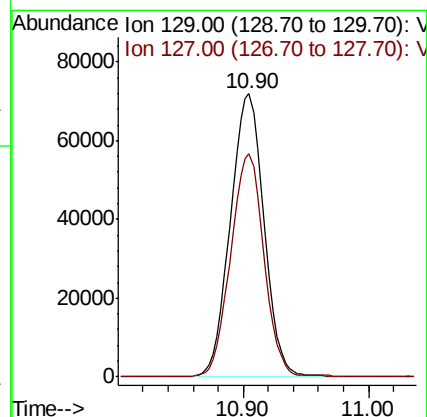
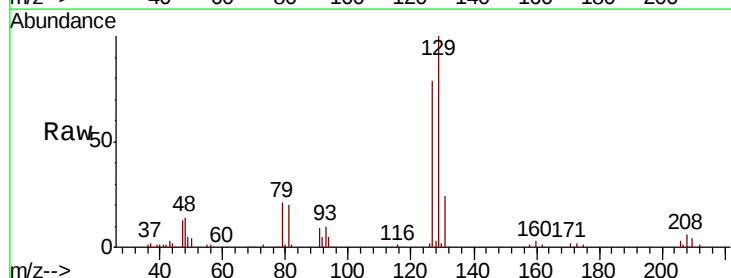
Acq: 5 Oct 2018 14:52

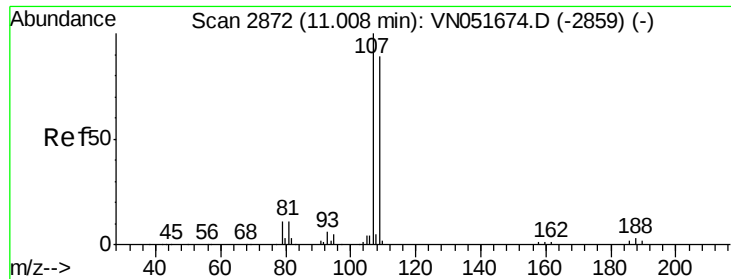
Tgt Ion: 129 Resp: 133656

Ion Ratio Lower Upper

129 100

127 78.0 40.2 120.5





#54

1,2-Dibromoethane

Concen: 18.431 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

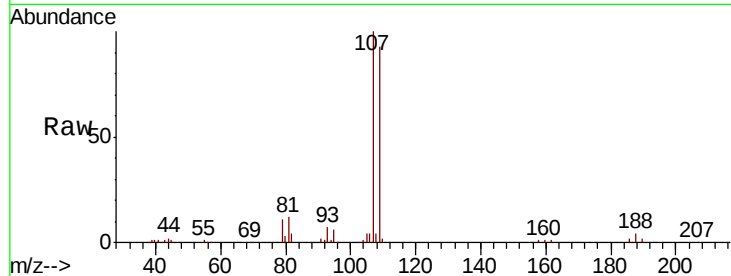
VN1005WBSD01

Tot Ion:107 Resp: 109776

Ion Ratio Lower Upper

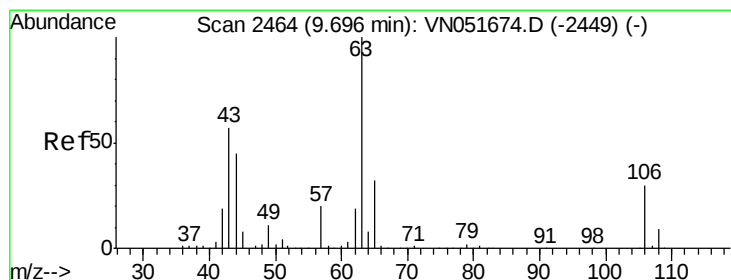
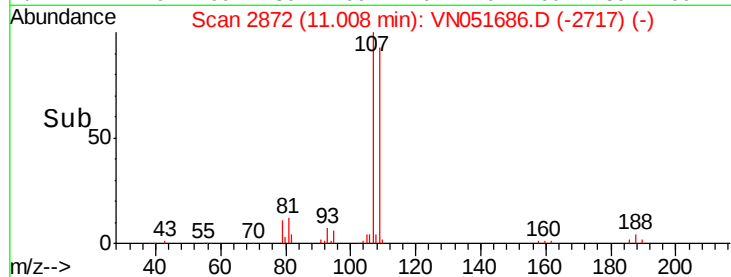
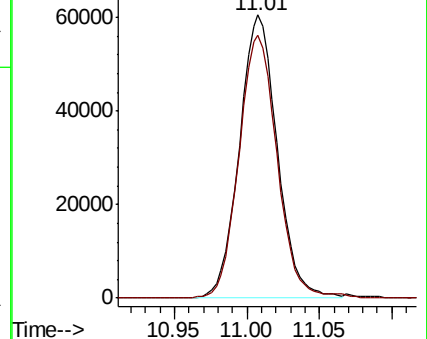
107 100

109 93.1 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

2-Chloroethyl vinyl ether

Concen: 92.514 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

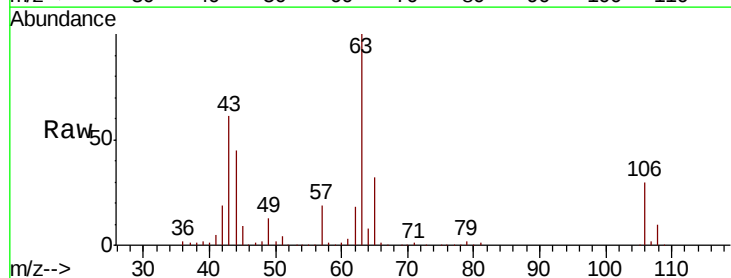
Tgt Ion: 63 Resp: 276735

Ion Ratio Lower Upper

63 100

65 32.4 25.4 38.0

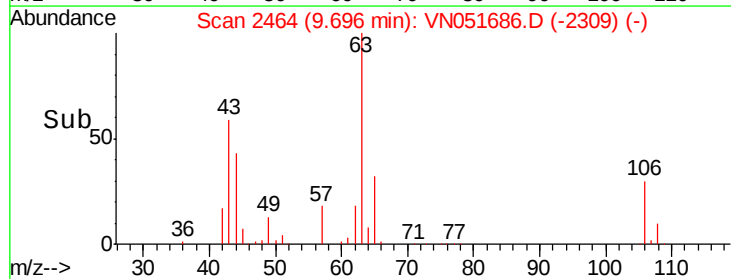
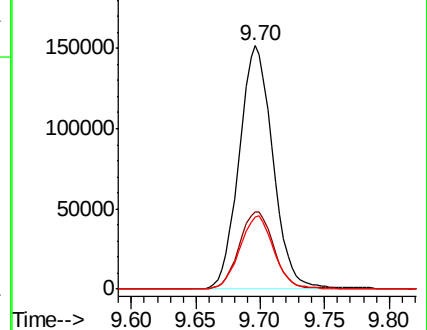
106 30.4 21.2 31.8

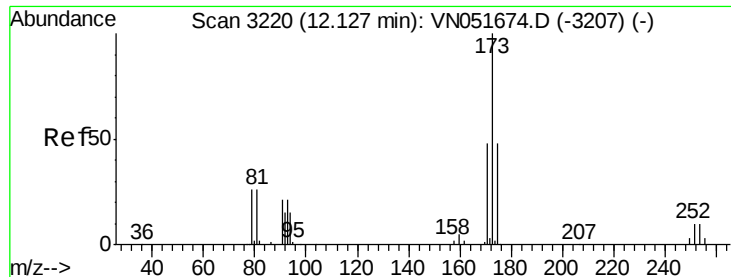


Abundance Ion 63.00 (62.70 to 63.70): V

Ion 65.00 (64.70 to 65.70): V

Ion 106.00 (105.70 to 106.70): V

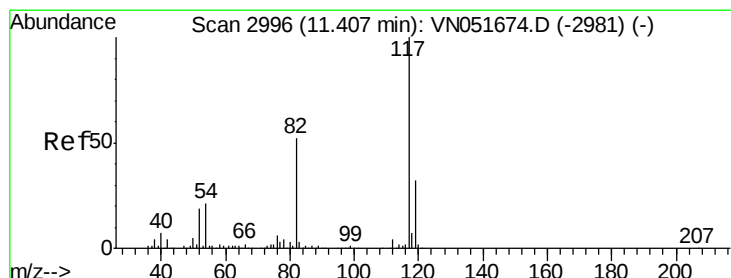
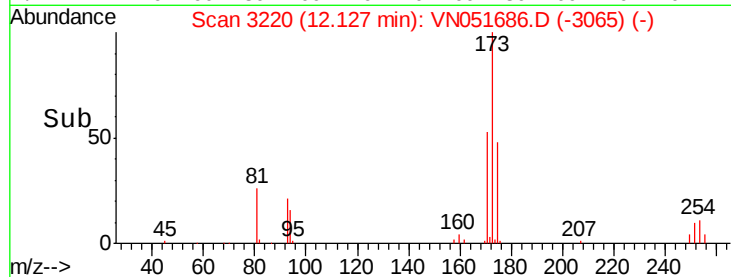
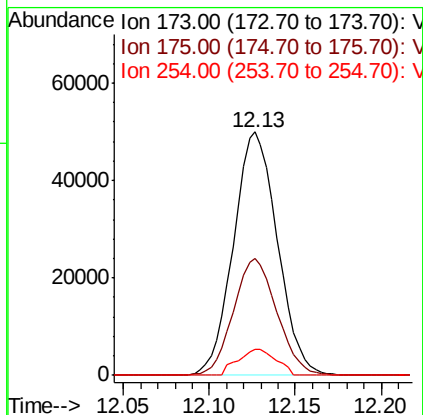
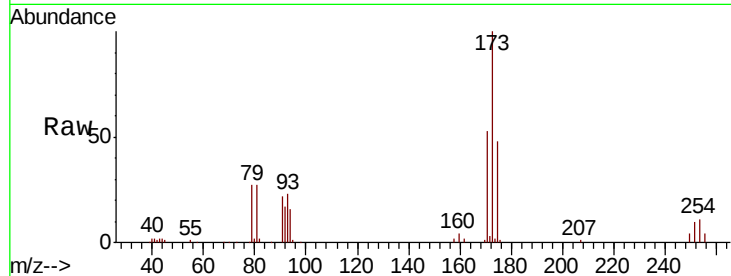




#56
Bromoform
Concen: 16.580 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

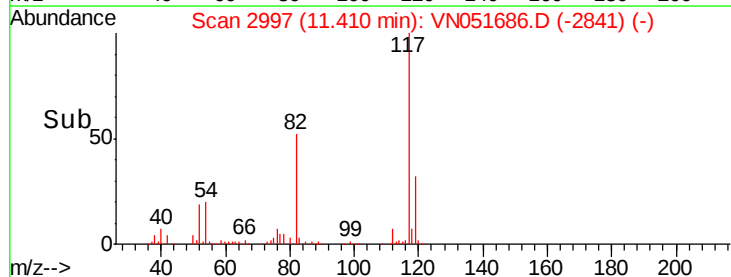
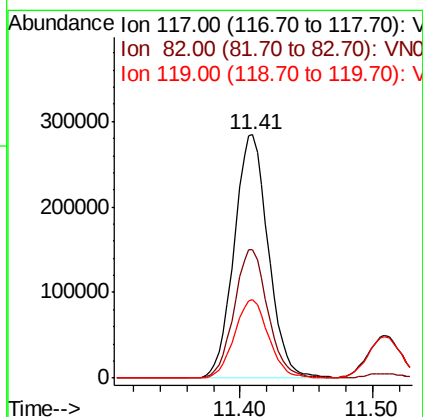
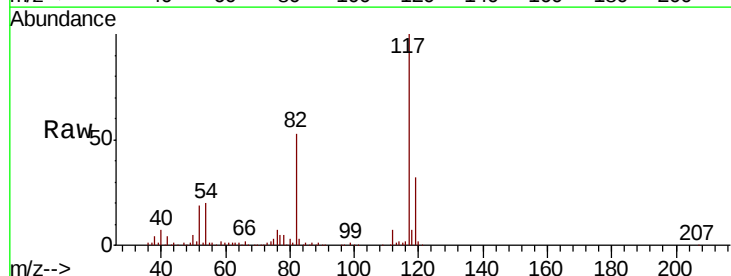
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

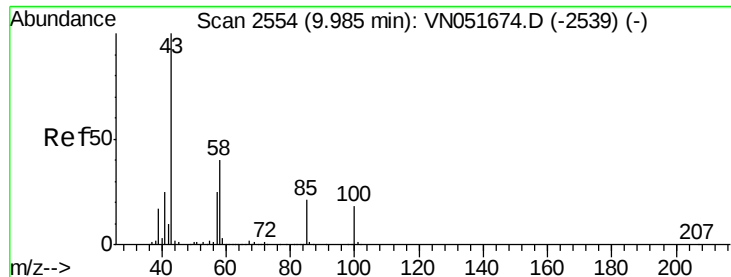
Tot Ion:173 Resp: 88637
Ion Ratio Lower Upper
173 100
175 47.3 35.8 53.8
254 9.3 8.6 13.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion:117 Resp: 508731
Ion Ratio Lower Upper
117 100
82 52.3 44.1 66.1
119 32.2 25.8 38.8

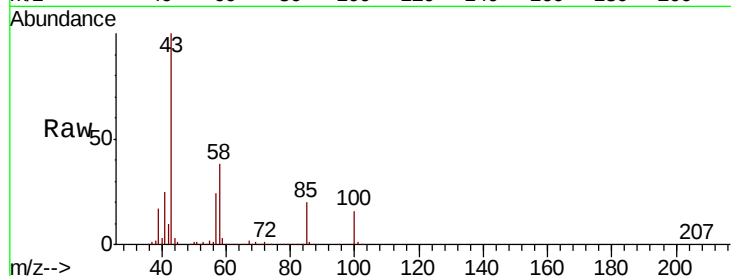




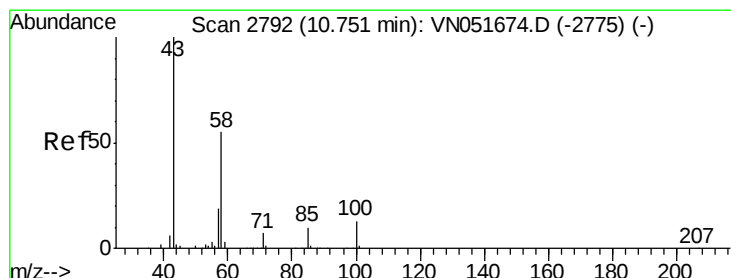
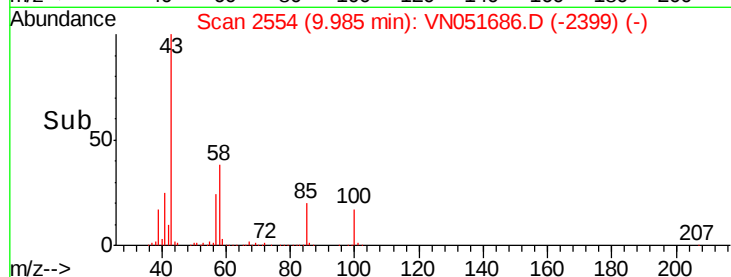
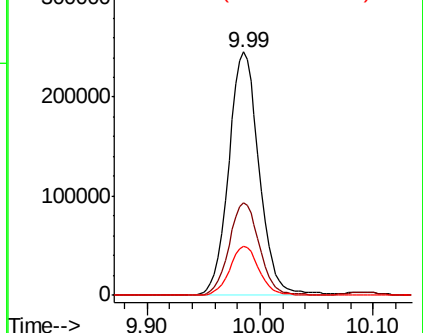
#58
4-Methyl-2-Pentanone
Concen: 109.119 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Instrument :
MSVOA_N
ClientSampleId :
VN1005WBSD01

Tot Ion: 43 Resp: 455782
Ion Ratio Lower Upper
43 100
58 38.2 29.3 43.9
85 19.6 12.6 18.8#

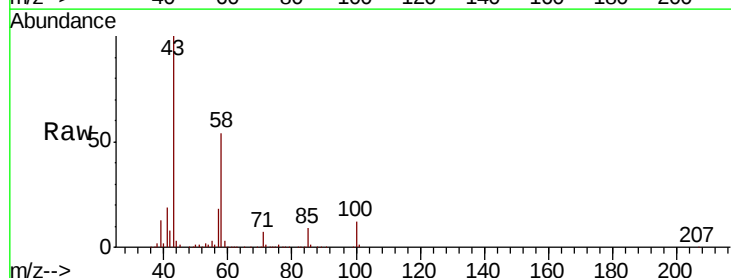


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

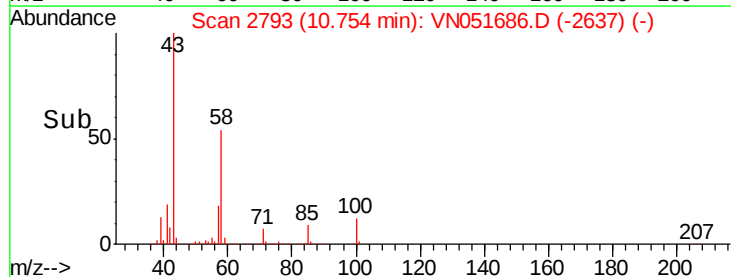
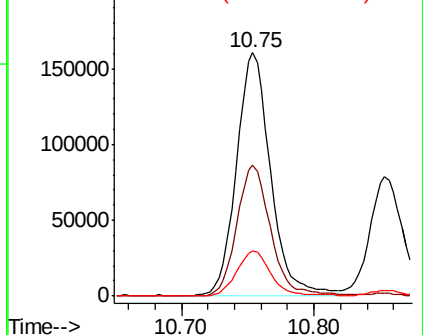


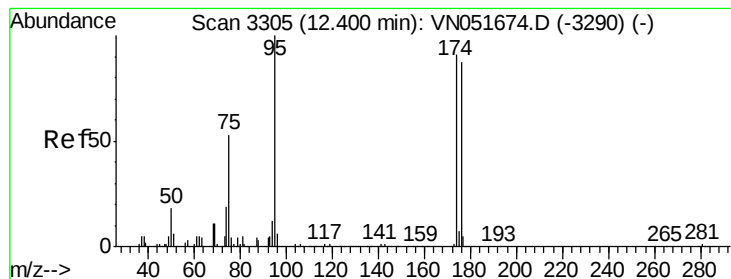
#59
2-Hexanone
Concen: 100.637 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion: 43 Resp: 284521
Ion Ratio Lower Upper
43 100
58 53.9 41.3 61.9
57 18.6 13.4 20.0



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0





#60

4-Bromofluorobenzene

Concen: 100.637 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

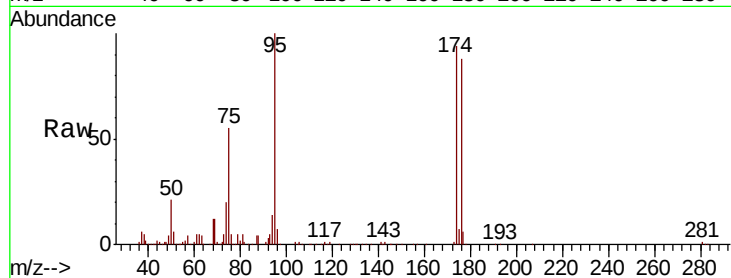
Tot Ion: 95 Resp: 210026

Ion Ratio Lower Upper

95 100

174 94.9 73.5 110.3

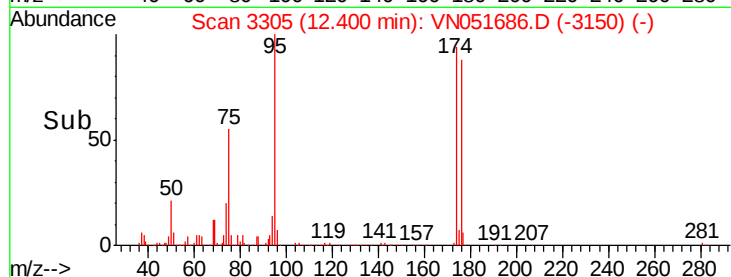
176 90.3 70.2 105.2



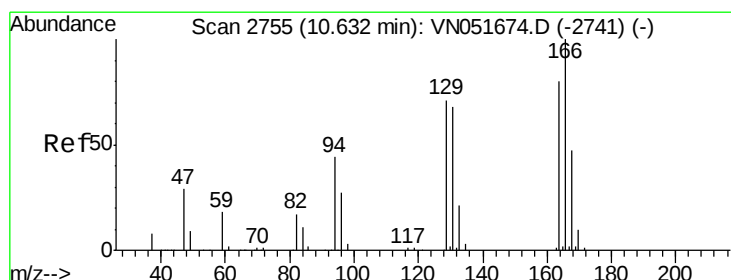
Abundance Ion 95.00 (94.70 to 95.70): VN051686.D (-3150) (-)

Ion 174.00 (173.70 to 174.70): VN051686.D (-3150) (-)

Ion 176.00 (175.70 to 176.70): VN051686.D (-3150) (-)



Time-->



#61

Tetrachloroethene

Concen: 20.329 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Tgt Ion: 164 Resp: 121838

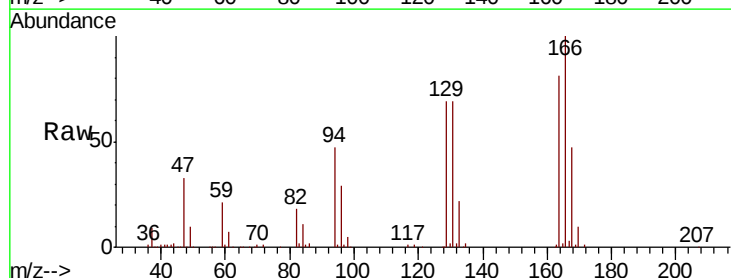
Ion Ratio Lower Upper

164 100

166 124.2 98.7 148.1

129 86.2 69.6 104.4

131 85.8 72.4 108.6

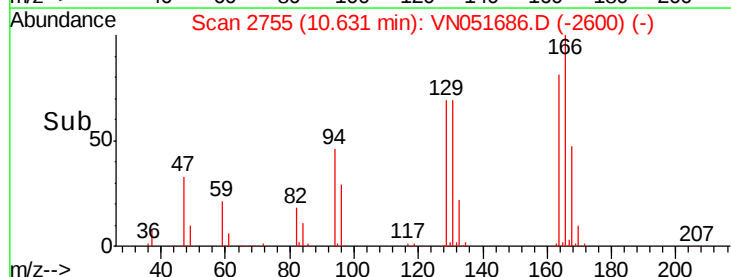


Abundance Ion 163.85 (163.55 to 164.55): VN051686.D (-2600) (-)

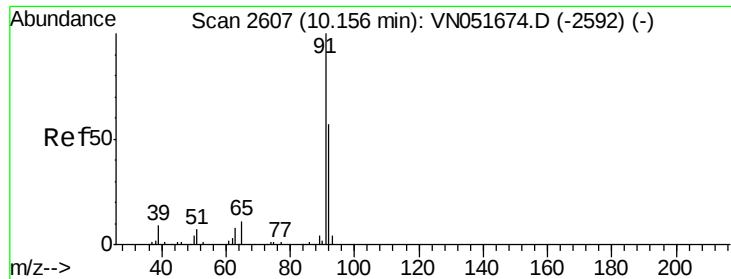
Ion 165.80 (165.50 to 166.50): VN051686.D (-2600) (-)

Ion 128.90 (128.60 to 129.60): VN051686.D (-2600) (-)

Ion 130.90 (130.60 to 131.60): VN051686.D (-2600) (-)



Time-->



#62

Toluene

Concen: 19.918 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampled :

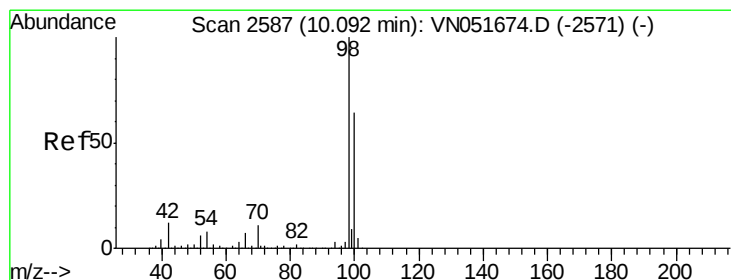
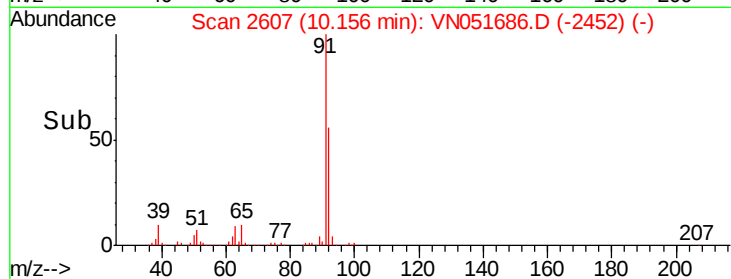
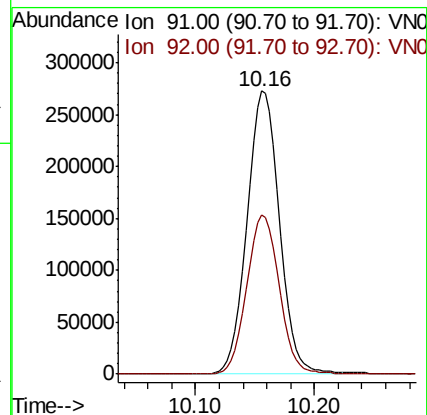
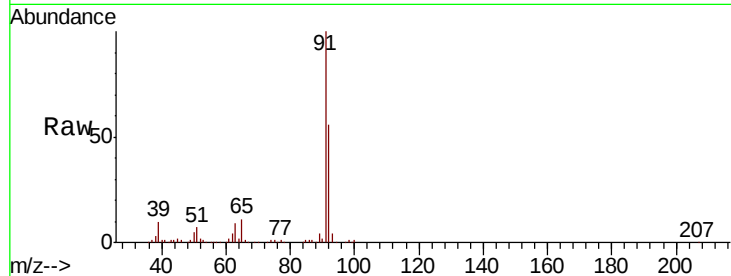
VN1005WBSD01

Tot Ion: 91 Resp: 513287

Ion Ratio Lower Upper

91 100

92 56.7 44.6 66.8



#63

Toluene-d8

Concen: 19.918 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051686.D

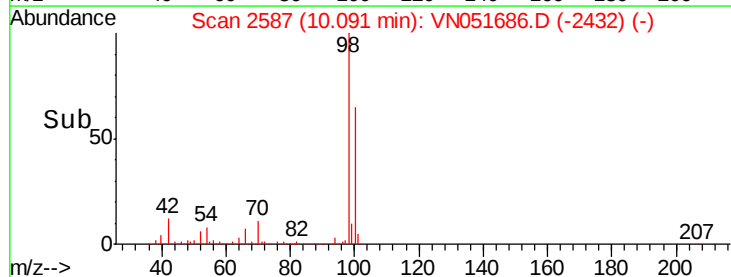
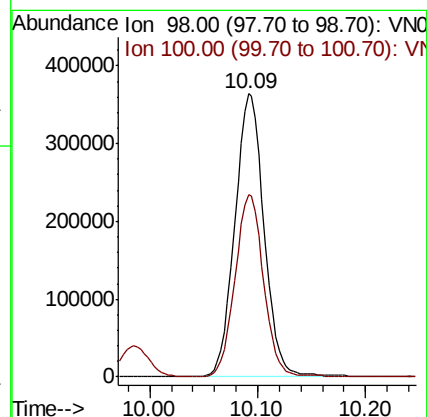
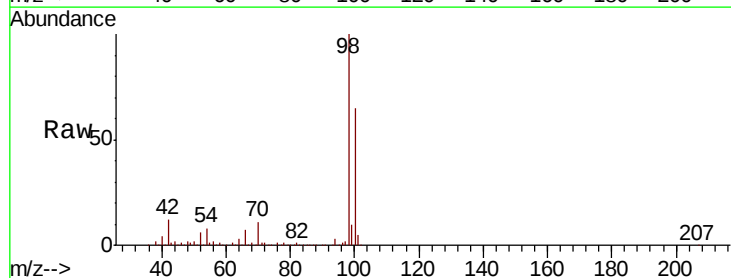
Acq: 5 Oct 2018 14:52

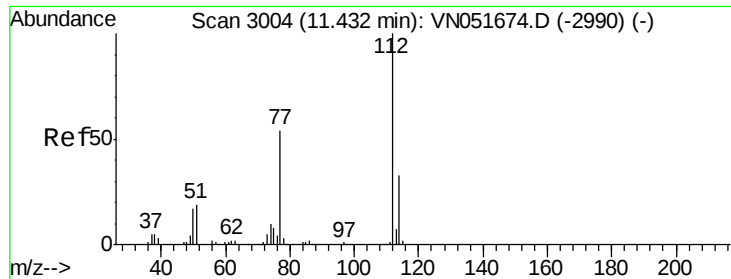
Tgt Ion: 98 Resp: 687822

Ion Ratio Lower Upper

98 100

100 63.4 50.8 76.2





#64

Chlorobenzene

Concen: 19.320 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

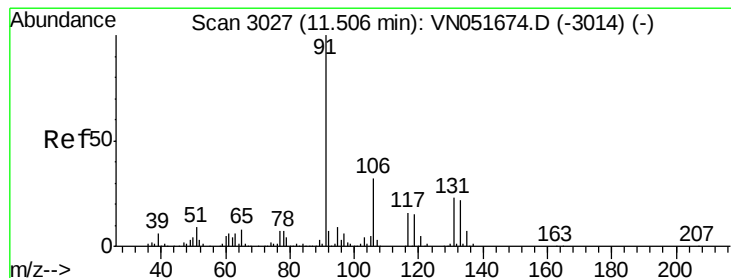
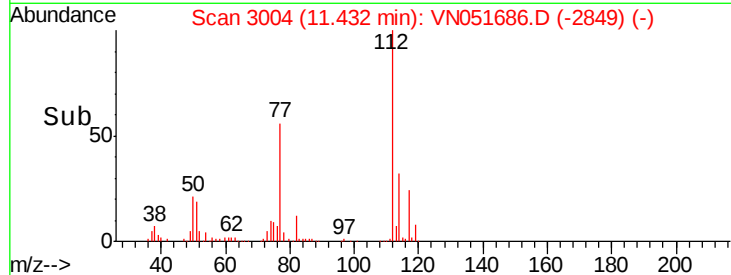
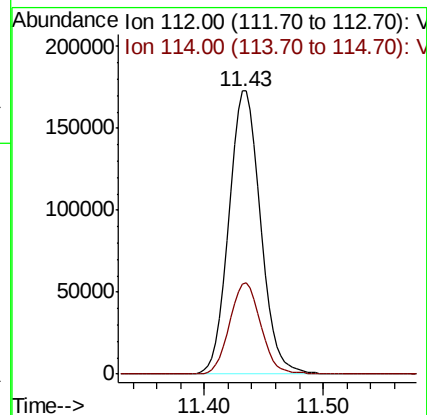
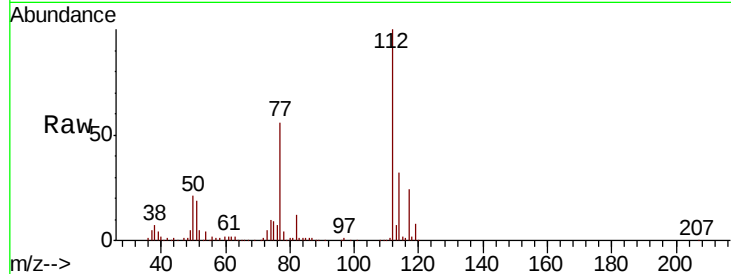
VN1005WBSD01

Tot Ion:112 Resp: 319557

Ion Ratio Lower Upper

112 100

114 32.0 27.5 41.3



#65

1,1,1,2-Tetrachloroethane

Concen: 19.072 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

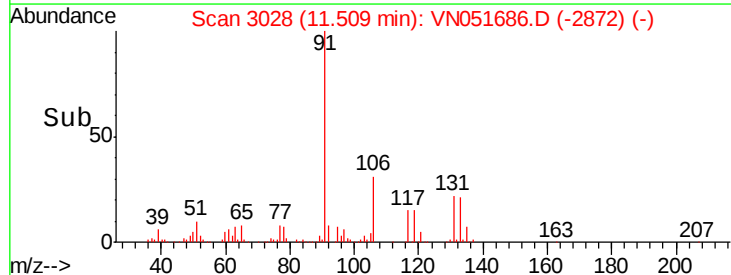
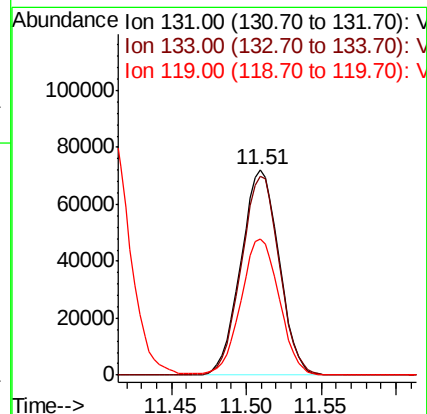
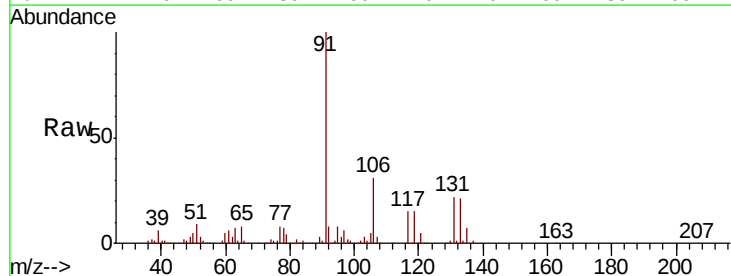
Tgt Ion:131 Resp: 128392

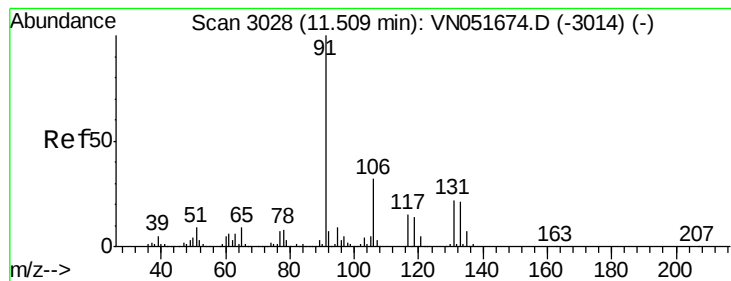
Ion Ratio Lower Upper

131 100

133 96.5 0.0 190.4

119 66.4 0.0 128.0





#66

Ethyl Benzene

Concen: 19.265 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampled :

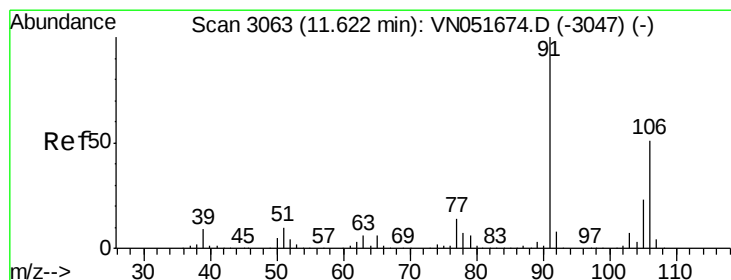
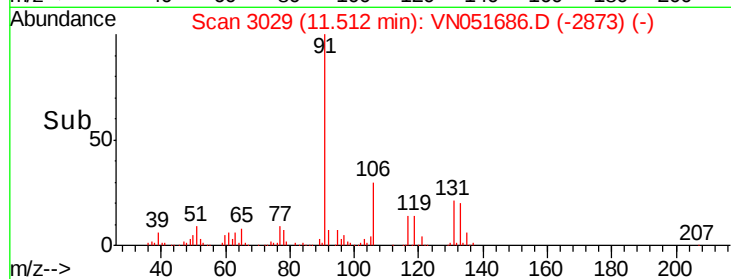
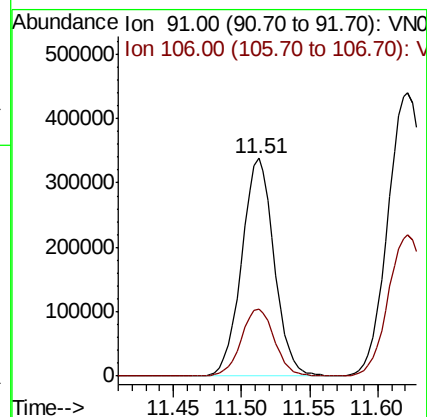
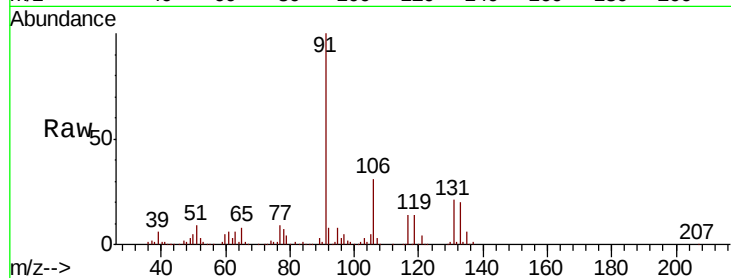
VN1005WBSD01

Tot Ion: 91 Resp: 558477

Ion Ratio Lower Upper

91 100

106 31.0 25.9 38.9



#67

m/p-Xylenes

Concen: 36.698 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN051686.D

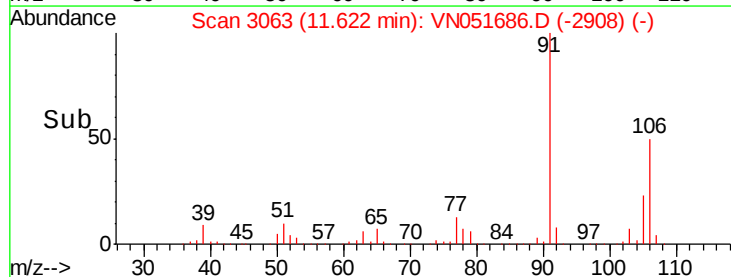
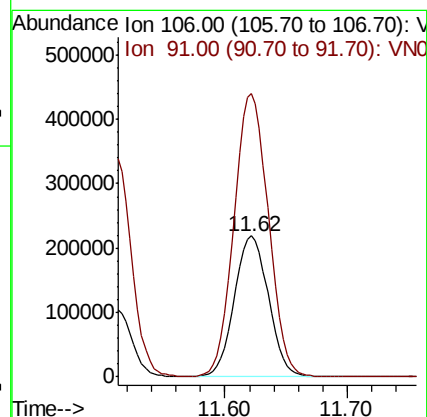
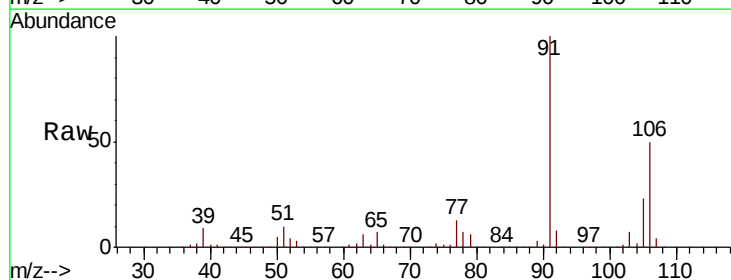
Acq: 5 Oct 2018 14:52

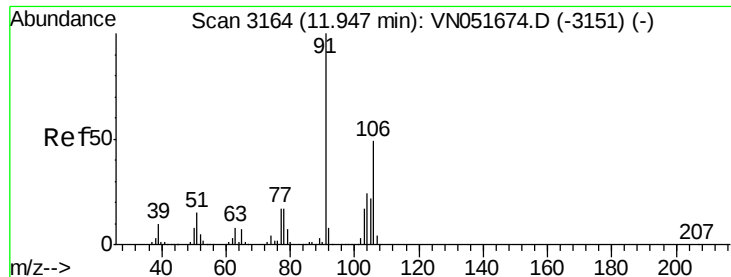
Tgt Ion: 106 Resp: 425507

Ion Ratio Lower Upper

106 100

91 201.9 158.8 238.2

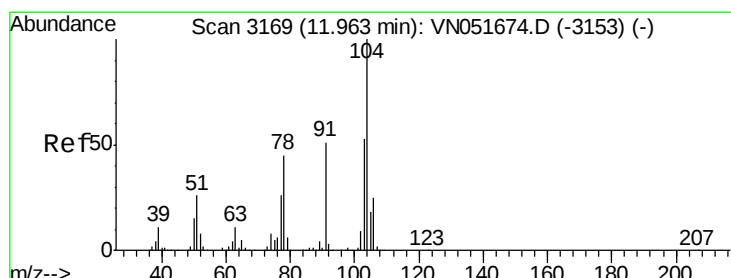
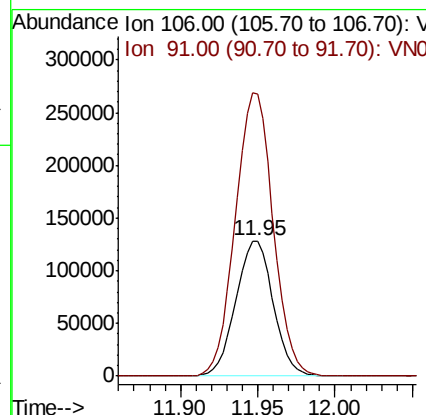
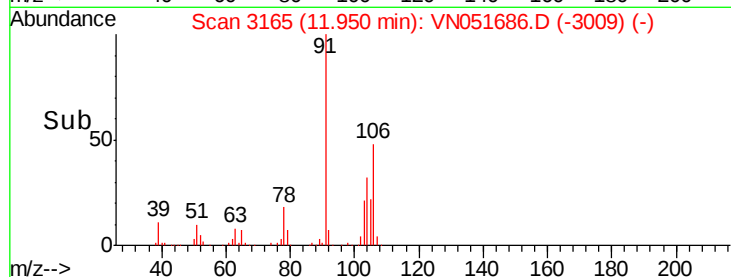
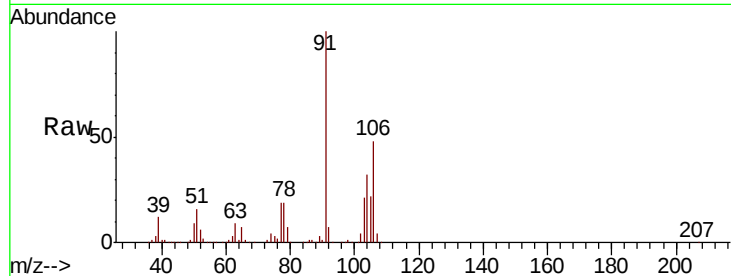




#68
o-Xylene
Concen: 18.763 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

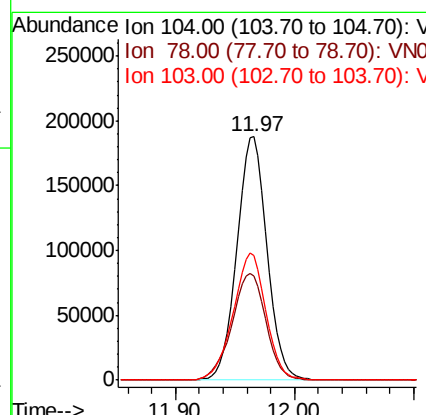
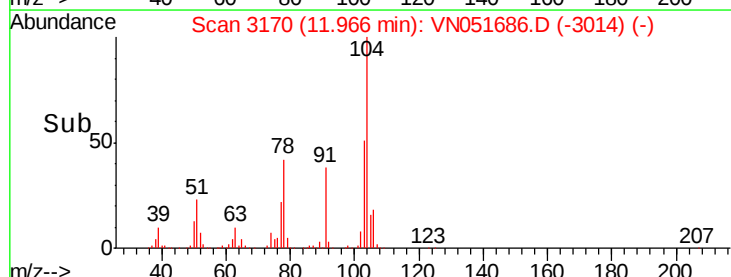
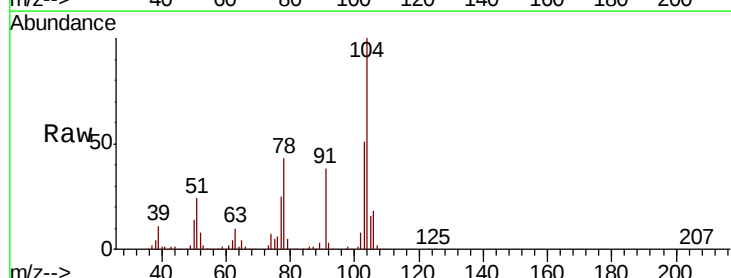
Instrument :
MSVOA_N
ClientSampled :
VN1005WBSD01

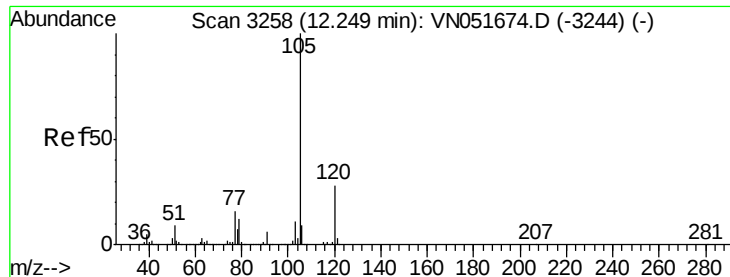
Tot Ion:106 Resp: 214575
Ion Ratio Lower Upper
106 100
91 212.2 111.1 333.3



#69
Styrene
Concen: 18.077 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051686.D
Acq: 5 Oct 2018 14:52

Tgt Ion:104 Resp: 329851
Ion Ratio Lower Upper
104 100
78 49.4 40.6 60.8
103 56.4 44.0 66.0





#70

Isopropylbenzene

Concen: 18.739 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

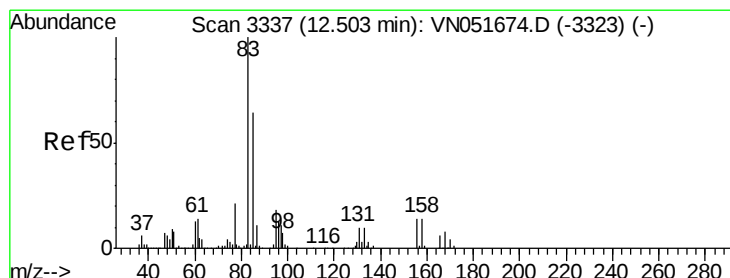
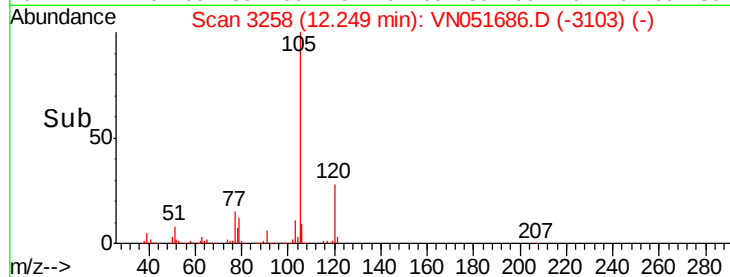
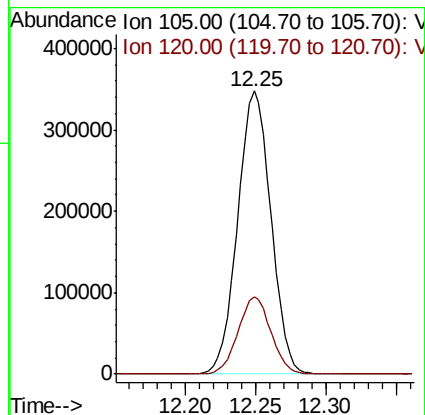
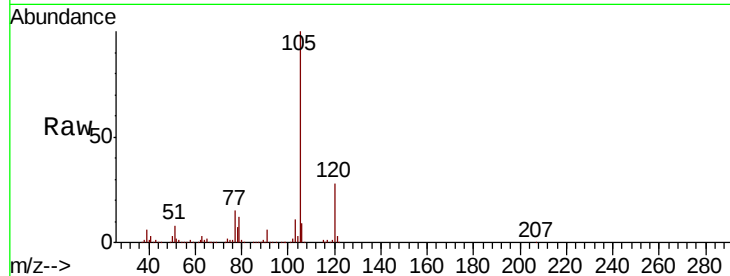
VN1005WBSD01

Tot Ion:105 Resp: 575836

Ion Ratio Lower Upper

105 100

120 27.0 19.0 35.4



#71

1,1,2,2-Tetrachloroethane

Concen: 20.024 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

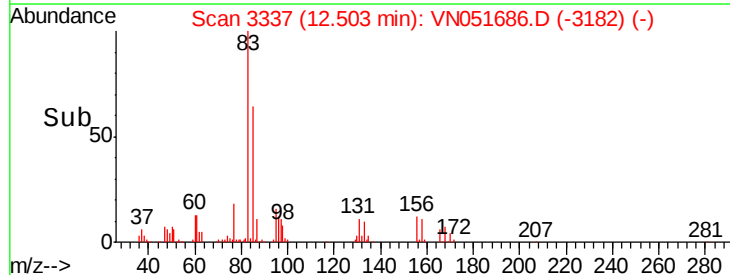
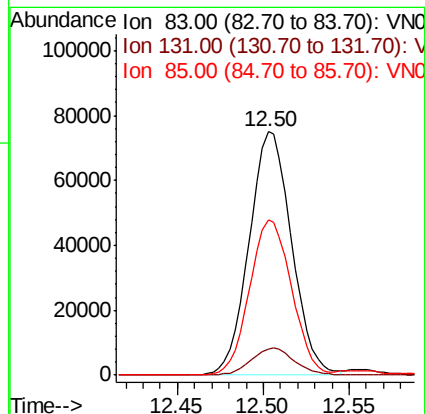
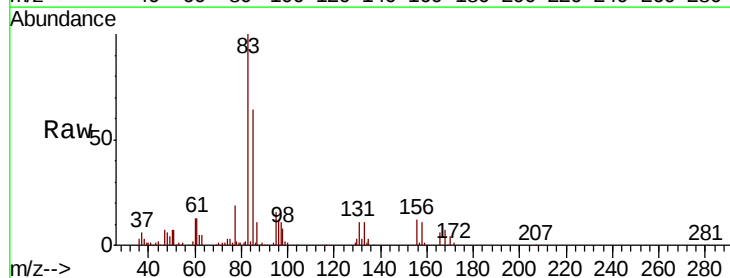
Tgt Ion: 83 Resp: 128503

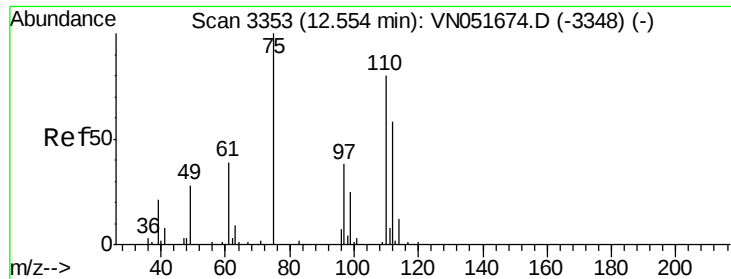
Ion Ratio Lower Upper

83 100

131 11.3 5.5 16.4

85 63.2 30.6 91.8





#72

1,2,3-Trichloropropane

Concen: 29.887 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

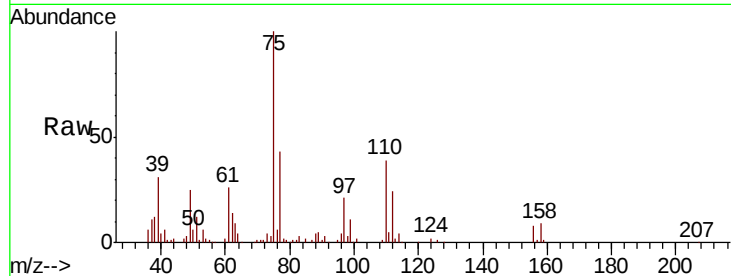
VN1005WBSD01

Tot Ion: 75 Resp: 153001

Ion Ratio Lower Upper

75 100

77 147.6 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VN051674.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051674.D (-3348) (-)

120000

100000

80000

60000

40000

20000

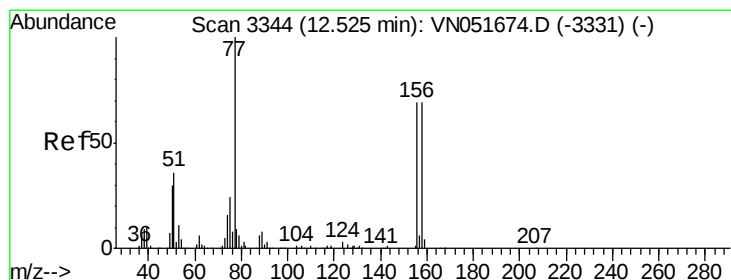
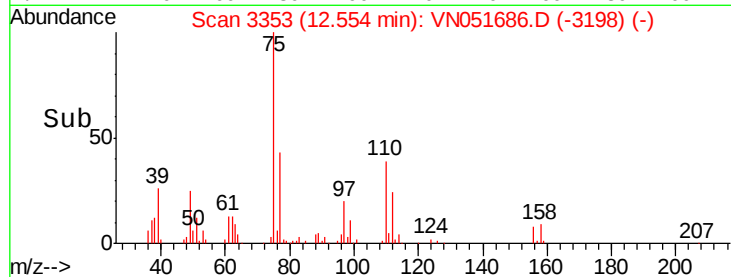
0

12.50

12.55

12.60

Time-->



#73

Bromobenzene

Concen: 18.393 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

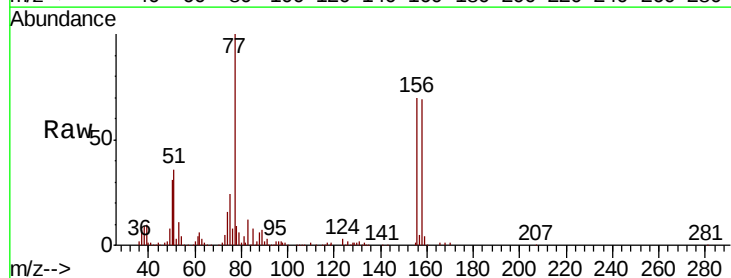
Tgt Ion: 156 Resp: 135939

Ion Ratio Lower Upper

156 100

77 166.1 0.0 377.4

158 96.6 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): VN051674.D (-3331) (-)

Ion 77.00 (76.70 to 77.70): VN051674.D (-3331) (-)

Ion 158.00 (157.70 to 158.70): VN051674.D (-3331) (-)

150000

100000

50000

0

12.45

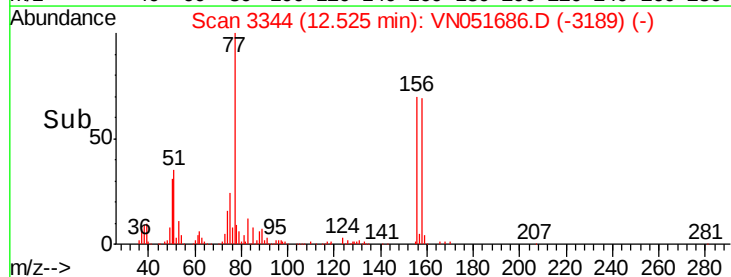
12.50

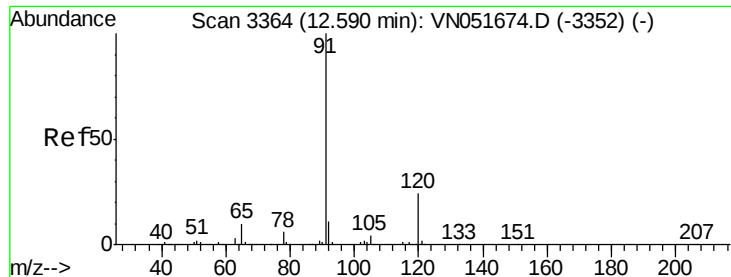
12.53

12.55

12.60

Time-->





#74

n-propylbenzene

Concen: 18.243 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampled :

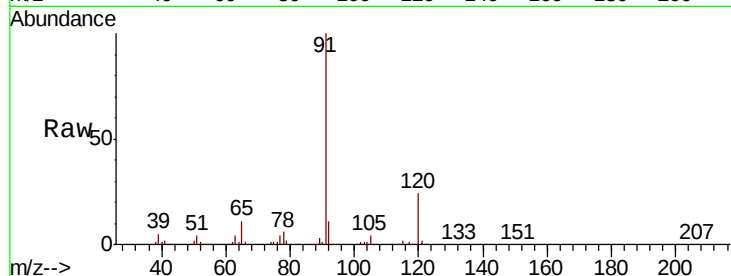
VN1005WBSD01

Tot Ion: 91 Resp: 617113

Ion Ratio Lower Upper

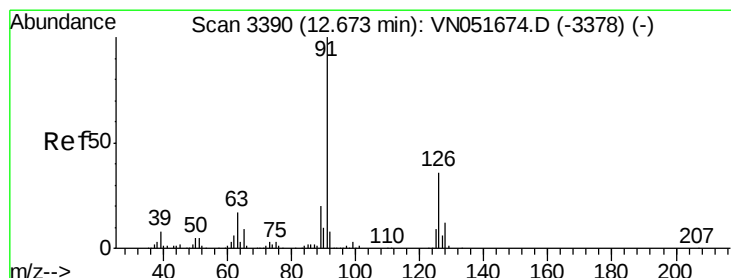
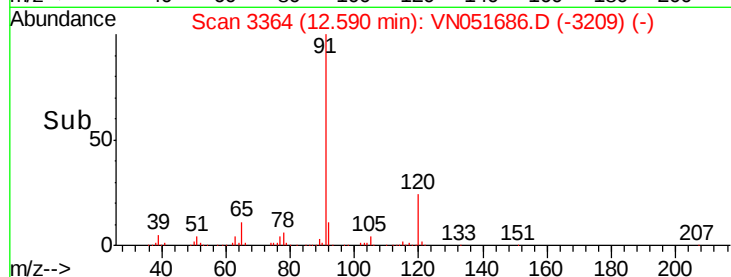
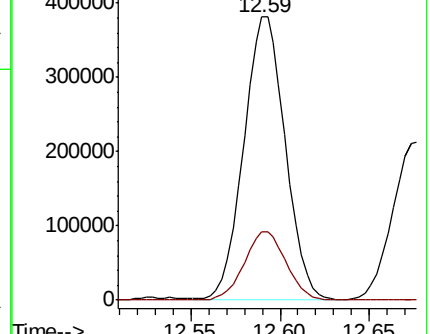
91 100

120 24.4 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#75

2-Chlorotoluene

Concen: 18.209 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051686.D

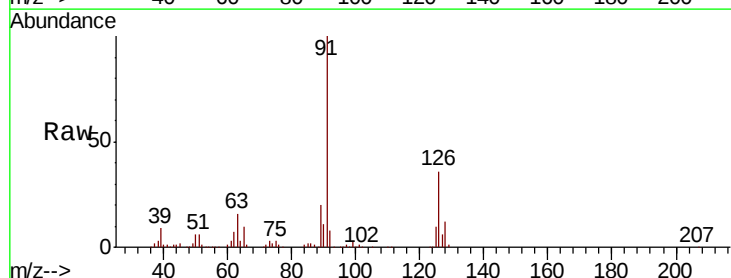
Acq: 5 Oct 2018 14:52

Tgt Ion: 91 Resp: 359911

Ion Ratio Lower Upper

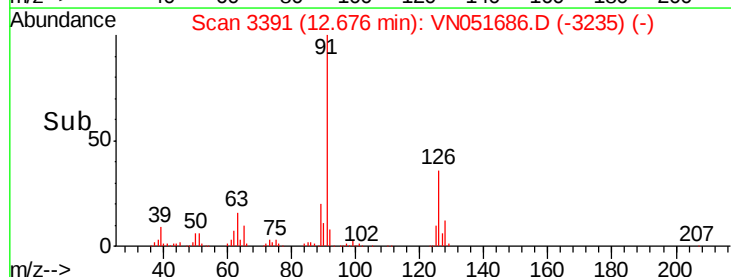
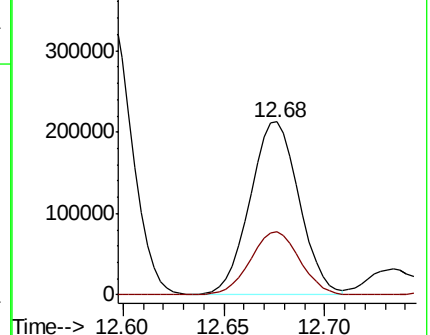
91 100

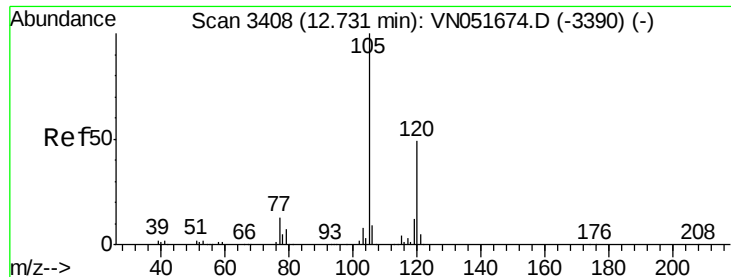
126 37.0 0.0 67.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V





#76

1,3,5-Trimethylbenzene

Concen: 18.174 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

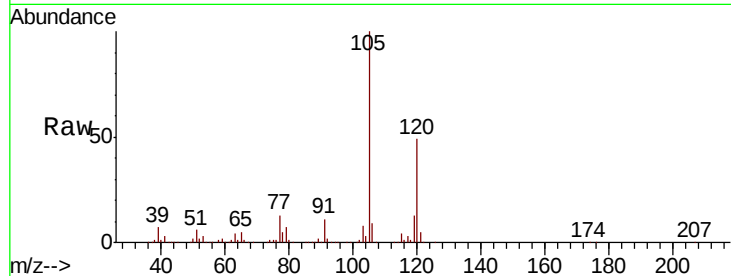
VN1005WBSD01

Tot Ion:105 Resp: 473888

Ion Ratio Lower Upper

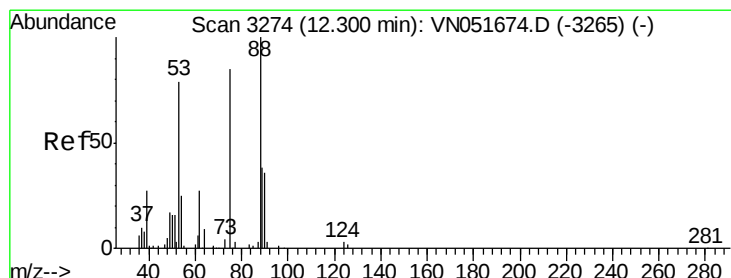
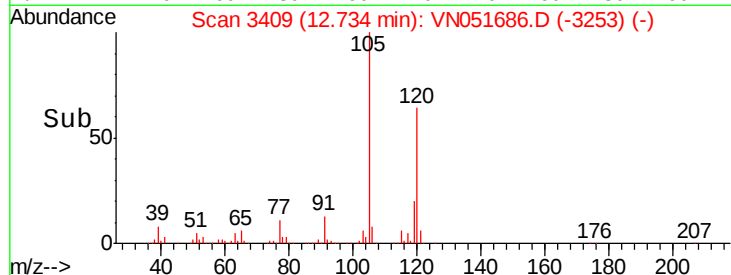
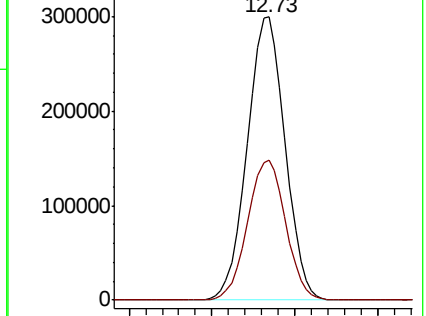
105 100

120 49.7 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#77

t-1,4-Dichloro-2-butene

Concen: 17.865 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

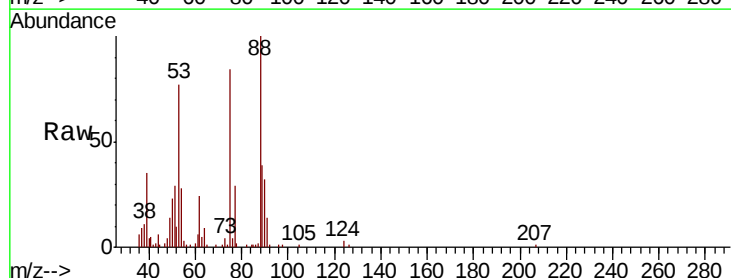
Tgt Ion: 75 Resp: 34099

Ion Ratio Lower Upper

75 100

53 90.2 46.3 138.9

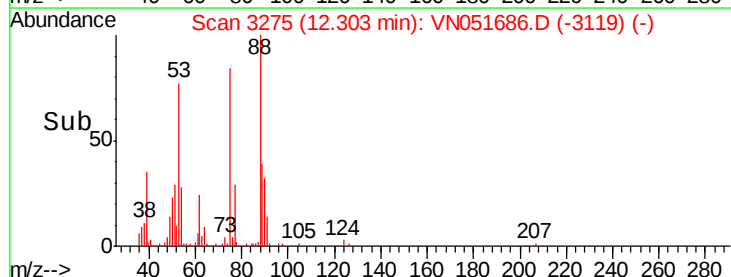
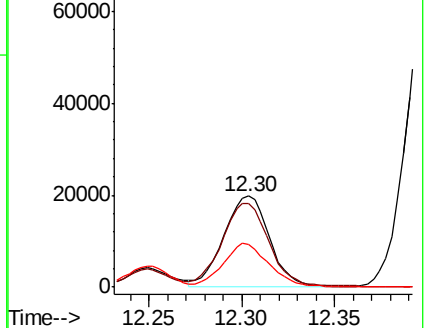
89 46.4 24.6 73.8

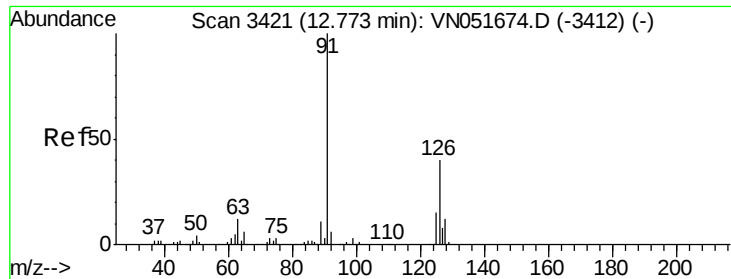


Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 89.00 (88.70 to 89.70): VNO





#78

4-Chlorotoluene

Concen: 17.402 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

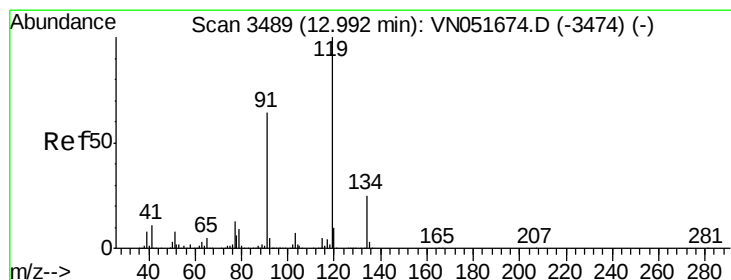
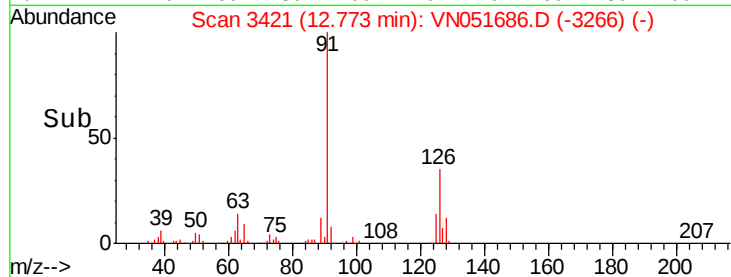
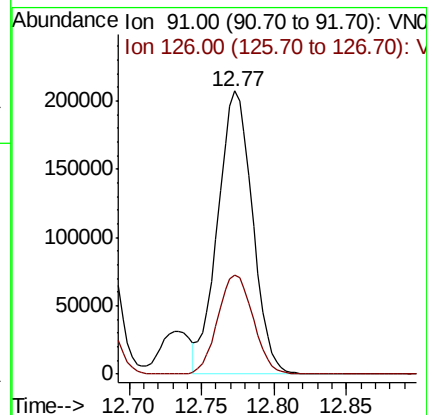
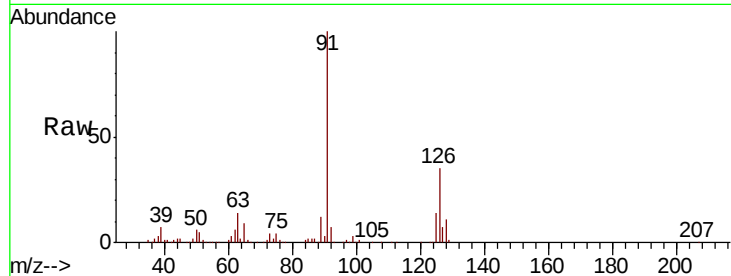
VN1005WBSD01

Tot Ion: 91 Resp: 344721

Ion Ratio Lower Upper

91 100

126 35.7 0.0 65.2



#79

tert-butylbenzene

Concen: 18.315 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

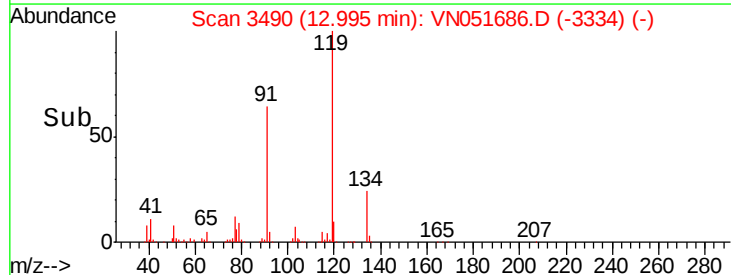
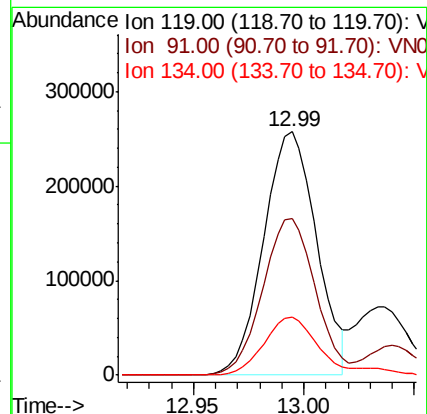
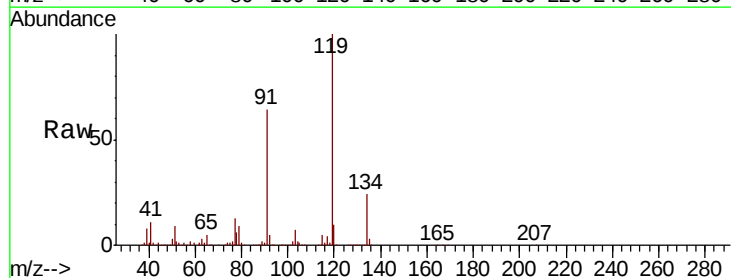
Tgt Ion: 119 Resp: 429515

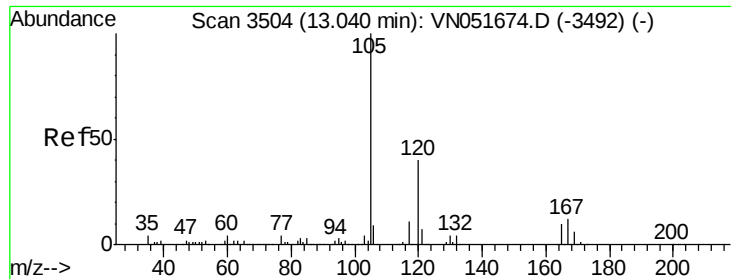
Ion Ratio Lower Upper

119 100

91 63.6 0.0 131.6

134 25.9 0.0 46.2





#80

1,2,4-Trimethylbenzene

Concen: 17.942 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

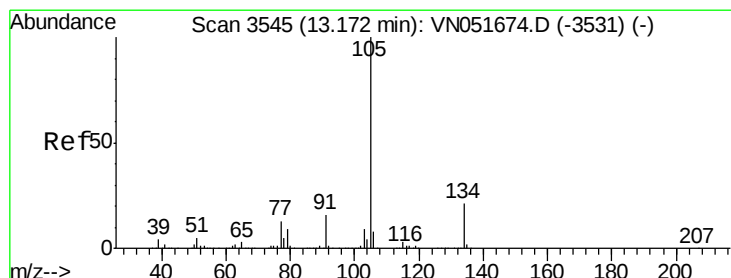
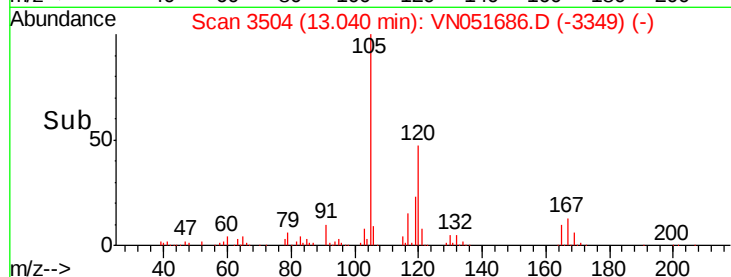
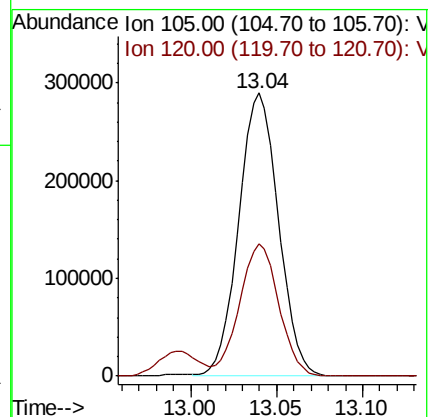
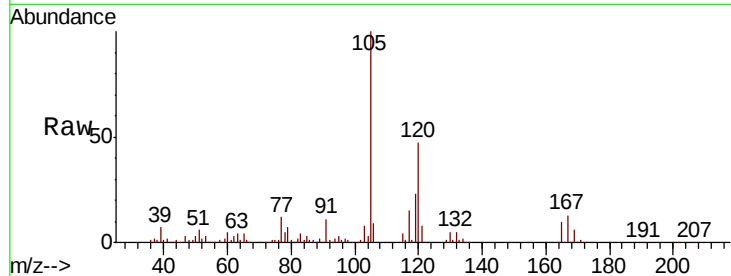
VN1005WBSD01

Tot Ion:105 Resp: 465358

Ion Ratio Lower Upper

105 100

120 46.3 0.0 89.6



#81

sec-Butylbenzene

Concen: 18.234 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051686.D

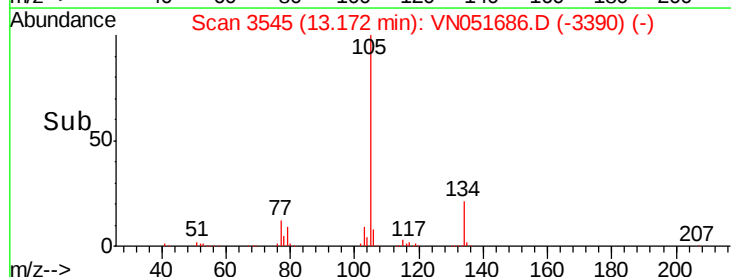
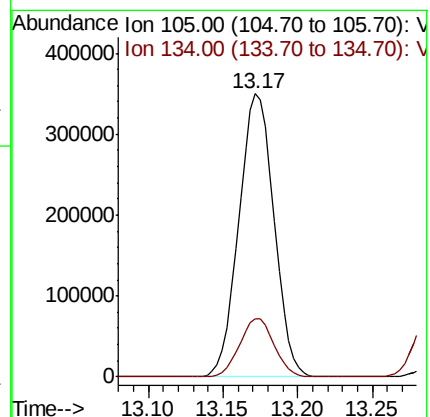
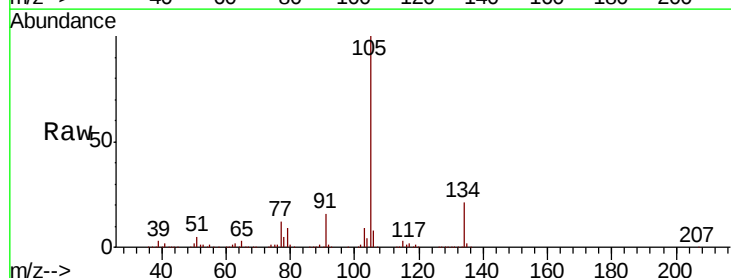
Acq: 5 Oct 2018 14:52

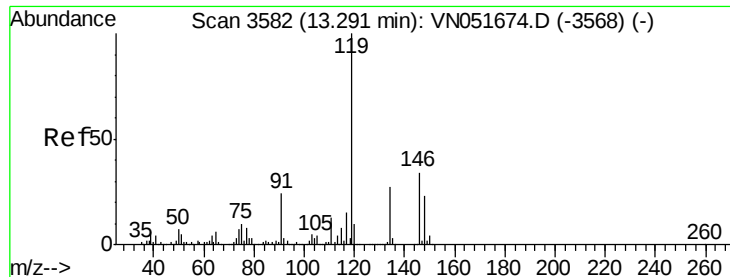
Tgt Ion:105 Resp: 572054

Ion Ratio Lower Upper

105 100

134 20.4 0.0 39.4

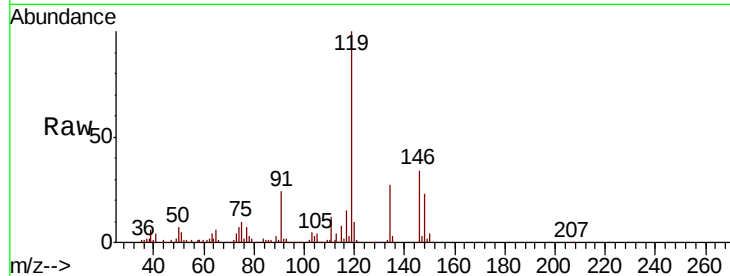




#82
 p-Isopropyltoluene
 Concen: 17.733 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.0	0.0	53.6
91	23.4	0.0	52.0

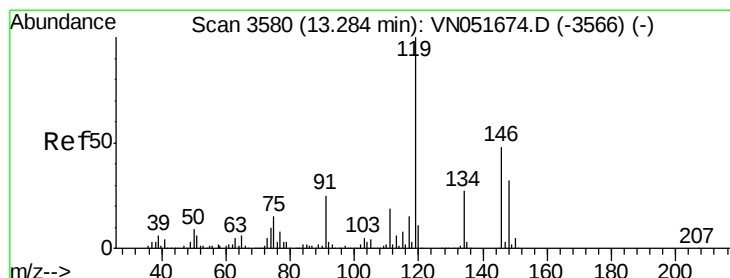
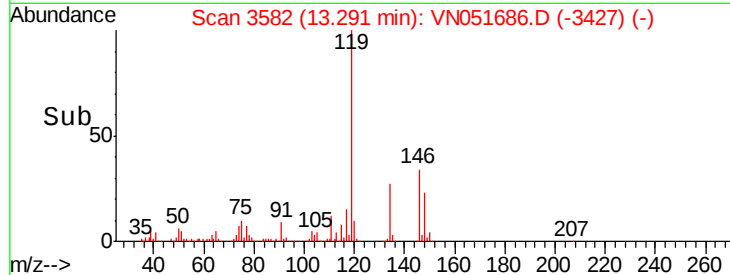
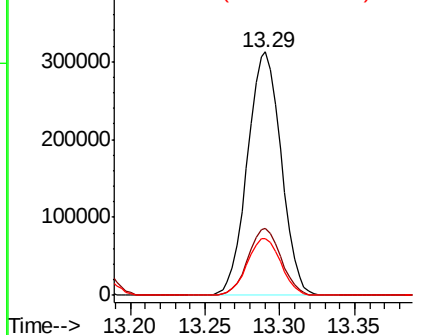


Abundance

Ion 119.00 (118.70 to 119.70): V

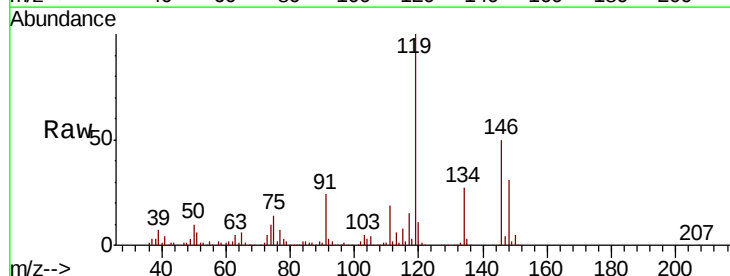
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#83
 1,3-Dichlorobenzene
 Concen: 17.115 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.1	54.3
148	64.8	31.3	93.8

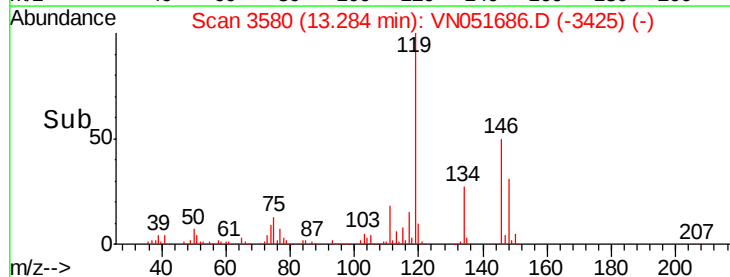
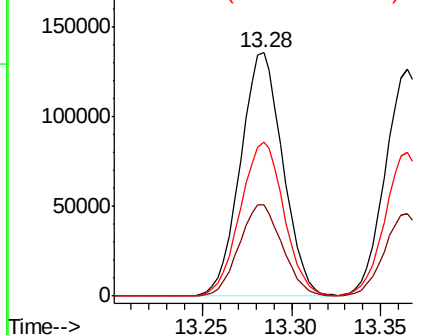


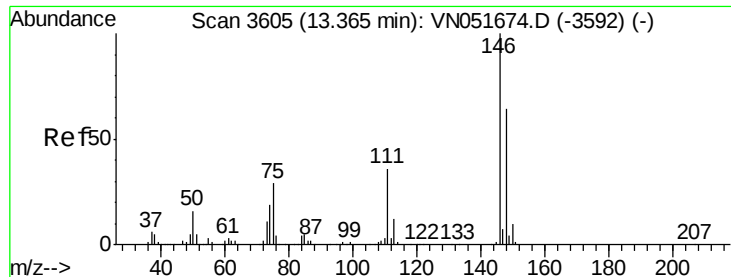
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

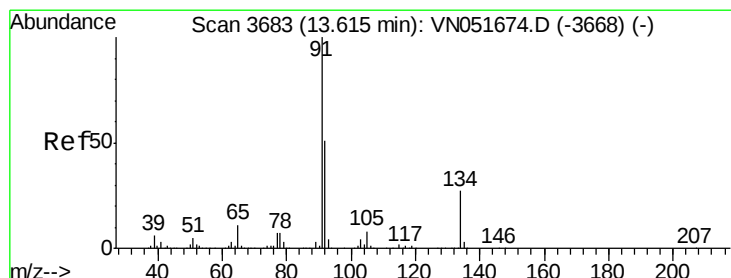
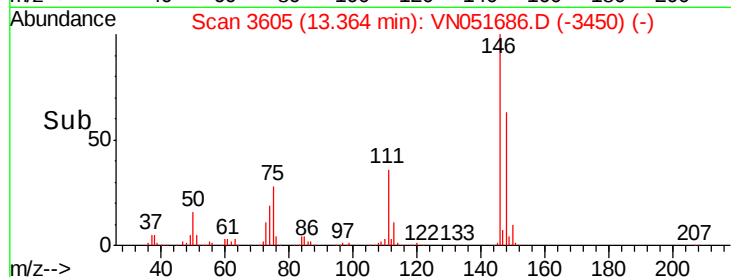
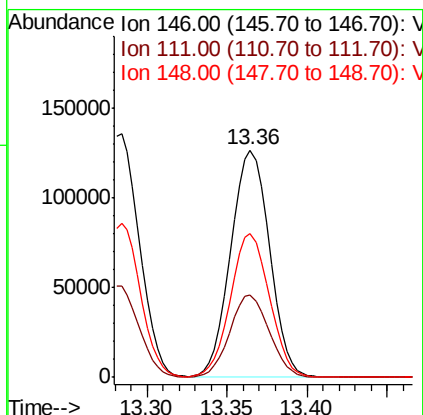
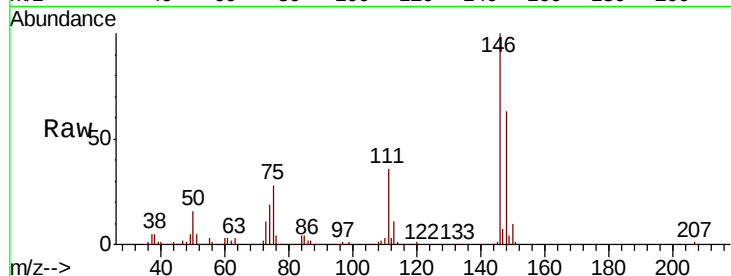




#84
 1,4-Dichlorobenzene
 Concen: 16.625 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

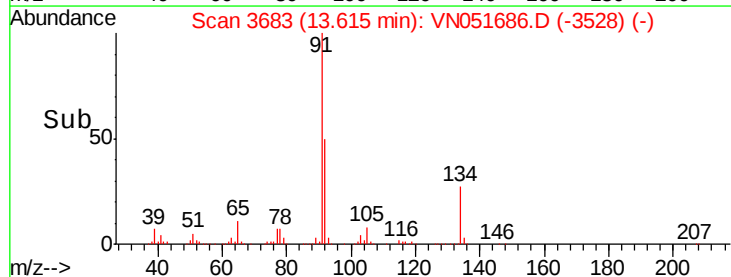
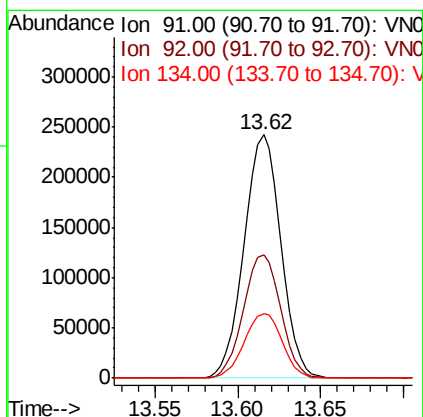
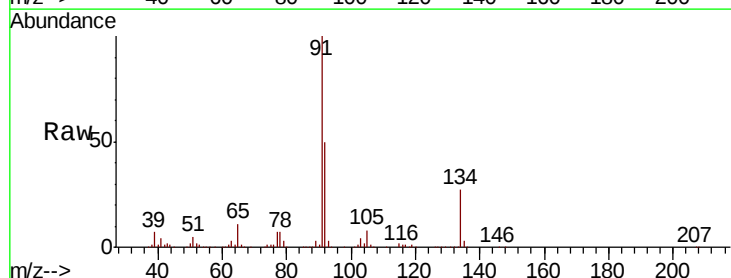
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBSD01

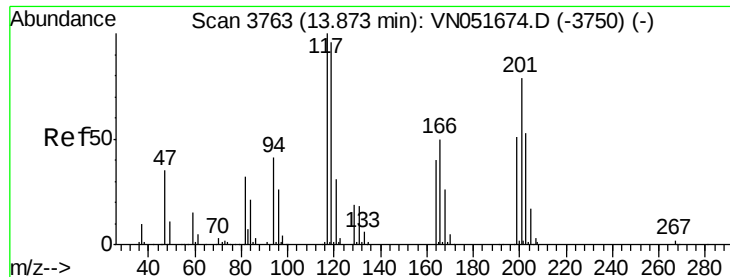
Tot Ion:146 Resp: 209975
 Ion Ratio Lower Upper
 146 100
 111 36.8 17.4 52.2
 148 63.4 32.8 98.3



#85
 n-Butylbenzene
 Concen: 17.227 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. -0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Tgt Ion: 91 Resp: 376327
 Ion Ratio Lower Upper
 91 100
 92 51.1 0.0 97.4
 134 27.3 0.0 49.6





#86

Hexachloroethane

Concen: 18.568 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

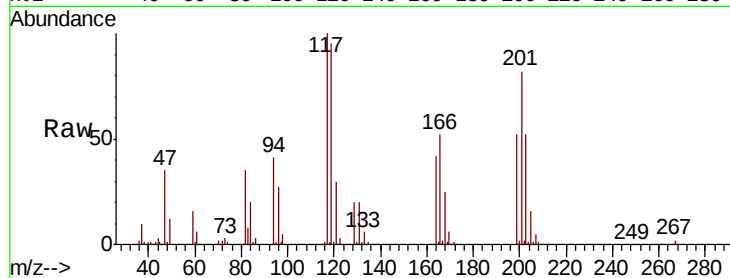
VN1005WBSD01

Tot Ion:117 Resp: 101535

Ion Ratio Lower Upper

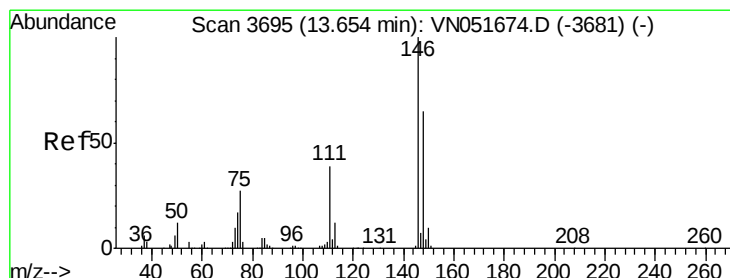
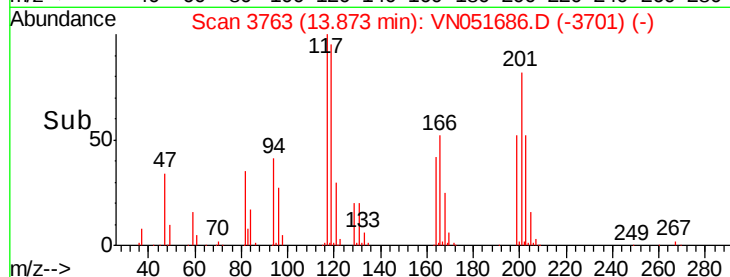
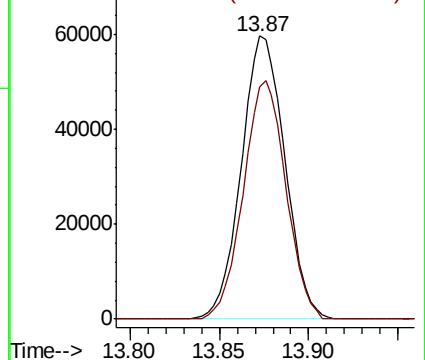
117 100

201 82.1 47.8 143.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#87

1,2-Dichlorobenzene

Concen: 17.330 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

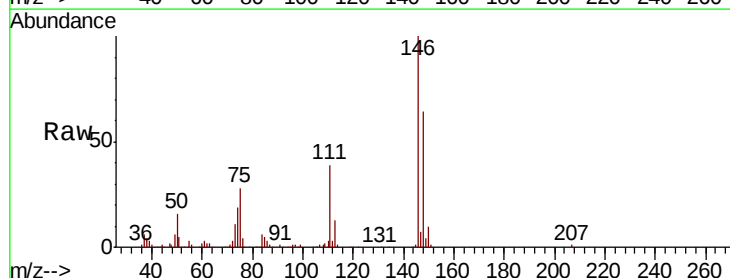
Tgt Ion:146 Resp: 224444

Ion Ratio Lower Upper

146 100

111 39.6 20.8 62.2

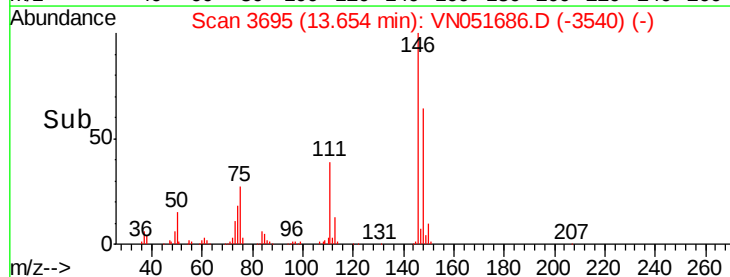
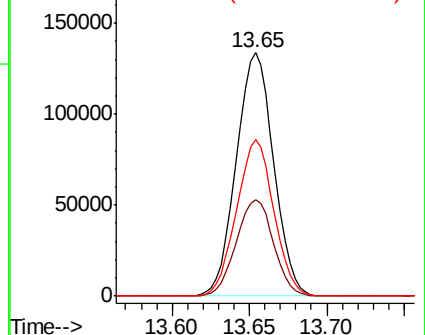
148 64.0 33.2 99.6

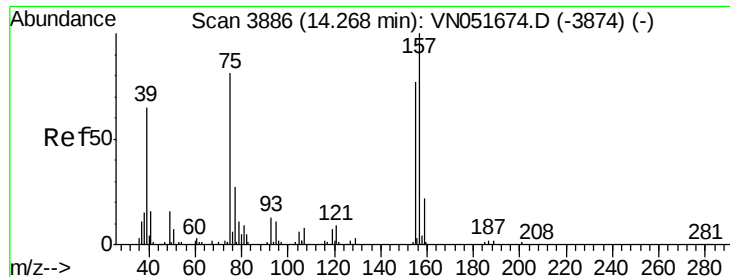


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

1,2-Dibromo-3-Chloropropane

Concen: 19.397 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

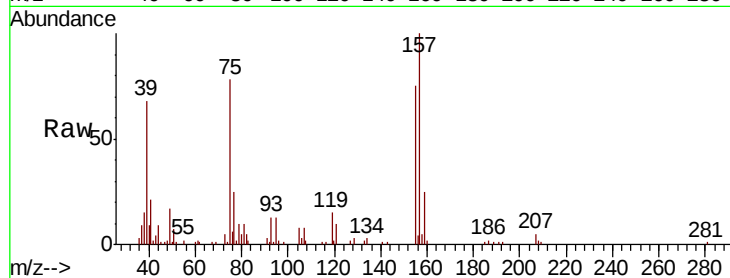
Tot Ion: 75 Resp: 20496

Ion Ratio Lower Upper

75 100

155 94.3 57.0 85.6#

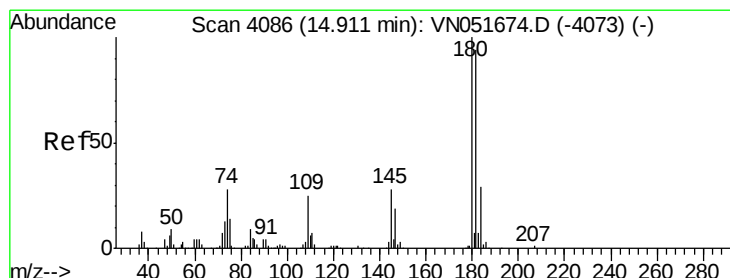
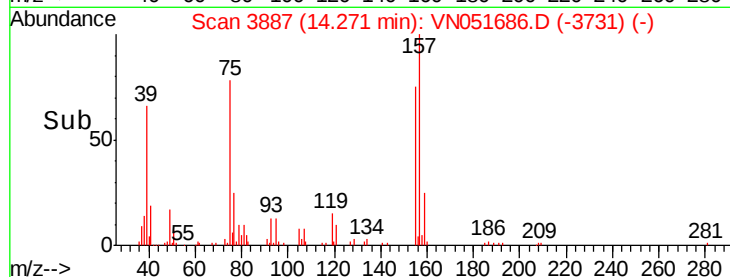
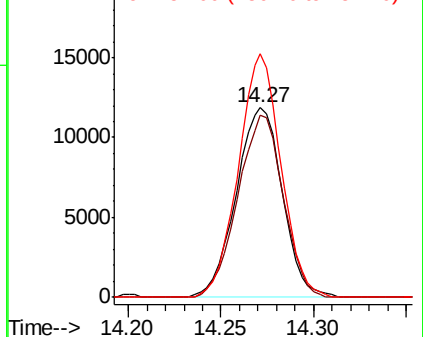
157 118.2 87.4 131.0



Abundance Ion 75.00 (74.70 to 75.70): VN051674.D (-3874) (-)

Ion 155.00 (154.70 to 155.70): VN051674.D (-3874) (-)

Ion 157.00 (156.70 to 157.70): VN051674.D (-3874) (-)



#89

1,2,4-Trichlorobenzene

Concen: 17.967 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

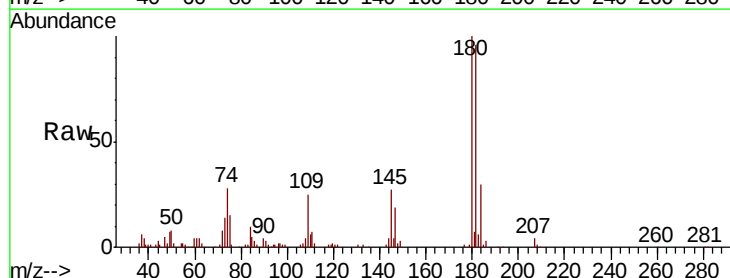
Tgt Ion: 180 Resp: 87766

Ion Ratio Lower Upper

180 100

182 95.2 77.7 116.5

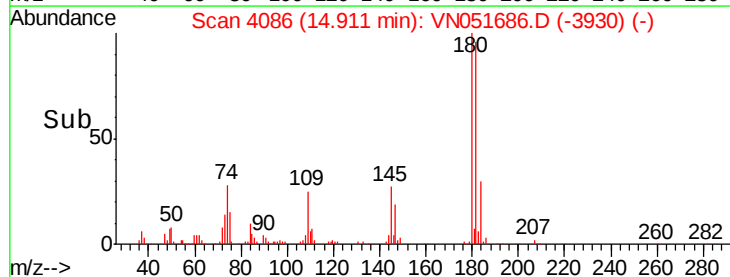
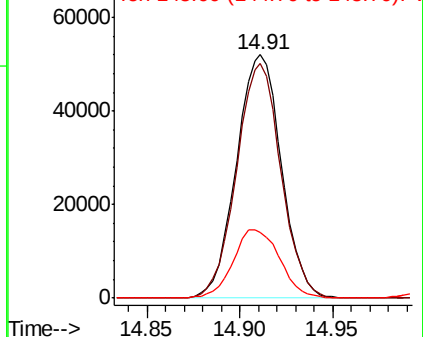
145 29.1 23.4 35.2

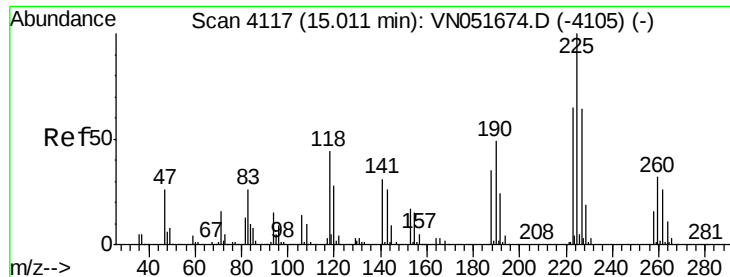


Abundance Ion 180.00 (179.70 to 180.70): VN051674.D (-4073) (-)

Ion 182.00 (181.70 to 182.70): VN051674.D (-4073) (-)

Ion 145.00 (144.70 to 145.70): VN051674.D (-4073) (-)





#90

Hexachlorobutadiene

Concen: 18.618 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBSD01

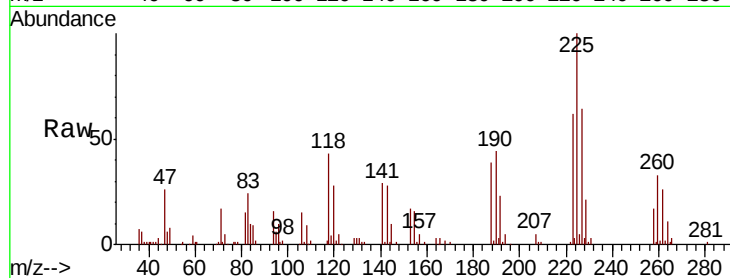
Tot Ion:225 Resp: 73375

Ion Ratio Lower Upper

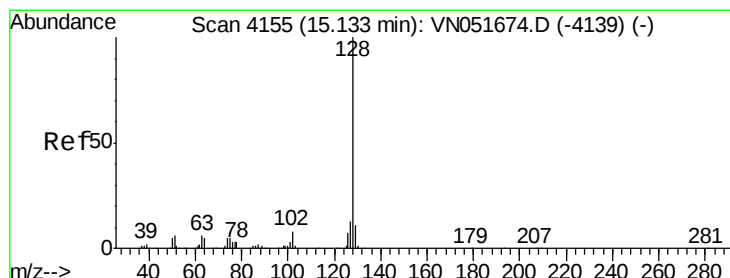
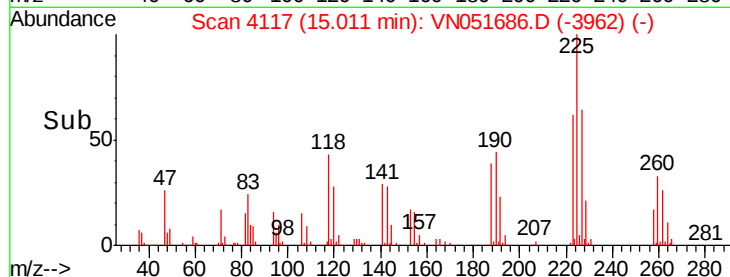
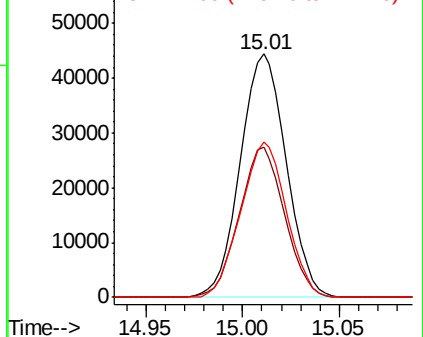
225 100

223 60.8 0.0 117.0

227 63.4 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 14.813 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051686.D

Acq: 5 Oct 2018 14:52

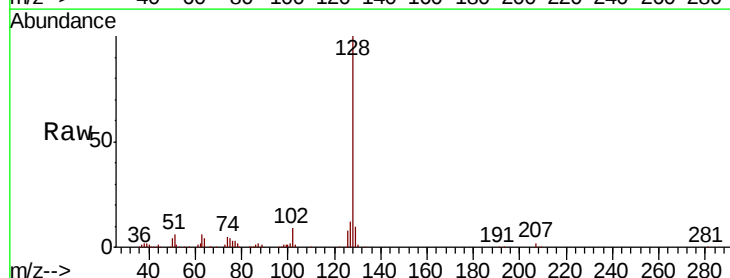
Tgt Ion:128 Resp: 181155

Ion Ratio Lower Upper

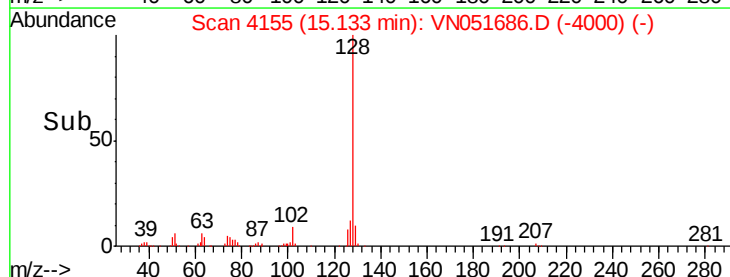
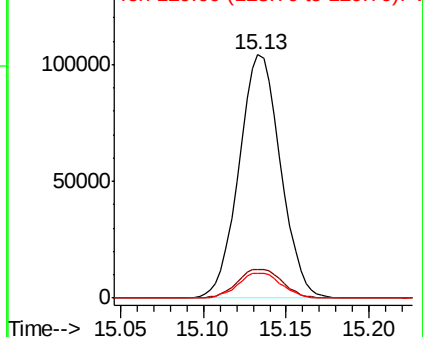
128 100

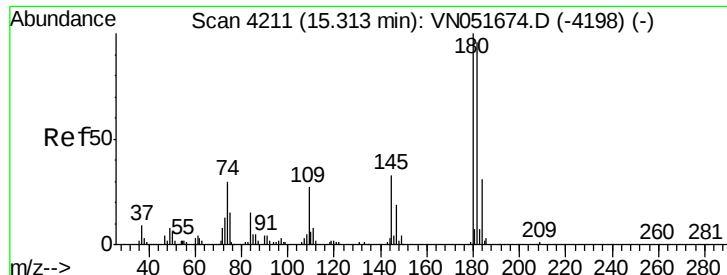
127 12.9 10.1 15.1

129 10.9 8.4 12.6



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

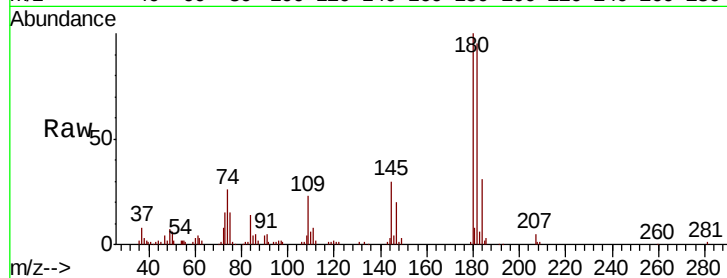




#92
 1,2,3-Trichlorobenzene
 Concen: 16.403 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051686.D
 Acq: 5 Oct 2018 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	0.0	198.0
145	31.3	0.0	36.8



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

