

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122118\
 Data File : VN053095.D
 Acq On : 21 Dec 2018 10:44
 Operator : MD\SY
 Sample : VN1221WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

Quant Time: Dec 22 00:54:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	166404	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	984391	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	876105	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	325429	28.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.67%
60) 4-Bromofluorobenzene	12.40	95	403731	30.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.47%
63) Toluene-d8	10.09	98	1159988	28.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	175381	18.505	ug/l 100
3) Chloromethane	2.06	50	230477	18.337	ug/l 100
4) Vinyl Chloride	2.19	62	240042	18.922	ug/l 97
5) Bromomethane	2.58	94	159088	21.994	ug/l 99
6) Chloroethane	2.71	64	148778	19.721	ug/l 98
7) Trichlorofluoromethane	3.03	101	314342	20.078	ug/l 98
8) Diethyl Ether	3.42	74	126085	21.810	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	203086	20.463	ug/l 97
10) 1,1-Dichloroethene	3.74	96	191851	20.559	ug/l 96
11) Methyl Iodide	3.96	142	233377	18.013	ug/l 100
12) Methyl Acetate	4.33	43	183972	23.203	ug/l 99
13) Acrolein	3.61	56	83495	89.649	ug/l 98
14) Acrylonitrile	4.99	53	388524	115.006	ug/l 98
15) Acetone	3.82	58	84351	96.412	ug/l 92
16) Carbon Disulfide	4.06	76	532424	18.022	ug/l 100
17) Allyl chloride	4.33	41	301420	18.522	ug/l 98
18) Methylene Chloride	4.55	84	226942	21.004	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	207907	20.703	ug/l 95
20) Diisopropyl ether	5.95	45	702885	20.553	ug/l 95
21) 1,1-Dichloroethane	5.85	63	398054	20.421	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	248270	21.571	ug/l 96
23) tert-Butyl Alcohol	4.78	59	71158	141.593	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	574684	23.475	ug/l 96
25) Chloroform	7.37	83	393331	20.917	ug/l 98
26) Cyclohexane	7.66	56	349918	19.034	ug/l # 97
29) 1,1-Dichloropropene	7.80	75	301286	20.042	ug/l 98
30) 2-Butanone	6.84	43	434118	107.923	ug/l 96
31) 2,2-Dichloropropane	6.83	77	298540	21.572	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	328759	21.018	ug/l 96
33) Carbon Tetrachloride	7.78	117	277671	20.288	ug/l 98
34) Benzene	8.04	78	922771	20.417	ug/l 98
35) Methacrylonitrile	7.17	41	124735	24.993	ug/l 95
36) 1,2-Dichloroethane	8.13	62	278897	20.364	ug/l 98
37) Trichloroethene	8.84	130	249416	21.763	ug/l 96
38) Methylcyclohexane	9.08	83	342110	18.384	ug/l 96
39) 1,2-Dichloropropane	9.12	63	246645	20.358	ug/l 95
40) Dibromomethane	9.21	93	142502	21.766	ug/l 96

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	297217	20.548	ug/l	99
42) Vinyl Acetate	5.90	43	2164616	99.457	ug/l	97
43) Ethyl Acetate	6.84	43	434118	50.754	ug/l	100
44) Isopropyl Acetate	8.17	43	363168	24.209	ug/l	98
45) 1,4-Dioxane	9.20	88	43575	530.980	ug/l	91
46) Methyl methacrylate	9.20	41	175622	22.548	ug/l	96
47) n-amyl Acetate	12.07	43	312093	25.092	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	305998	21.818	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	356554	20.866	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	210459	22.678	ug/l	99
51) Ethyl methacrylate	10.43	69	280198	24.040	ug/l	94
52) 1,3-Dichloropropane	10.71	76	357907	21.667	ug/l	99
53) Dibromochloromethane	10.90	129	226024	22.122	ug/l	97
54) 1,2-Dibromoethane	11.01	107	209368	23.088	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	791262	115.976	ug/l	98
56) Bromoform	12.13	173	157131	23.528	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	1008675	118.757	ug/l	97
59) 2-Hexanone	10.75	43	687328	118.462	ug/l	96
61) Tetrachloroethene	10.63	164	266708	24.717	ug/l	96
62) Toluene	10.16	91	999059	20.686	ug/l	100
64) Chlorobenzene	11.44	112	632265	21.448	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	223807	21.872	ug/l	99
66) Ethyl Benzene	11.51	91	1091392	20.967	ug/l	99
67) m/p-Xylenes	11.62	106	818468	42.205	ug/l	98
68) o-Xylene	11.95	106	408929	21.726	ug/l	98
69) Styrene	11.96	104	659871	21.720	ug/l	99
70) Isopropylbenzene	12.25	105	1070822	21.382	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	249077	22.864	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	316530	33.847	ug/l	43
73) Bromobenzene	12.53	156	273986	22.620	ug/l	95
74) n-propylbenzene	12.59	91	1187337	20.348	ug/l	99
75) 2-Chlorotoluene	12.68	91	713784	21.074	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	840086	20.768	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	68623	23.229	ug/l	97
78) 4-Chlorotoluene	12.77	91	709448	20.975	ug/l	99
79) tert-butylbenzene	12.99	119	753917	21.401	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	837457	20.690	ug/l	99
81) sec-Butylbenzene	13.17	105	975101	19.873	ug/l	100
82) p-Isopropyltoluene	13.29	119	832876	19.934	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	449878	21.118	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	444225	21.583	ug/l	98
85) n-Butylbenzene	13.62	91	656067	18.280	ug/l	99
86) Hexachloroethane	13.88	117	131062	18.513	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	434167	21.417	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	33810	22.156	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	201815	20.207	ug/l	99
90) Hexachlorobutadiene	15.01	225	126495	19.307	ug/l	99
91) Naphthalene	15.13	128	443200	21.974	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	185695	20.175	ug/l	99

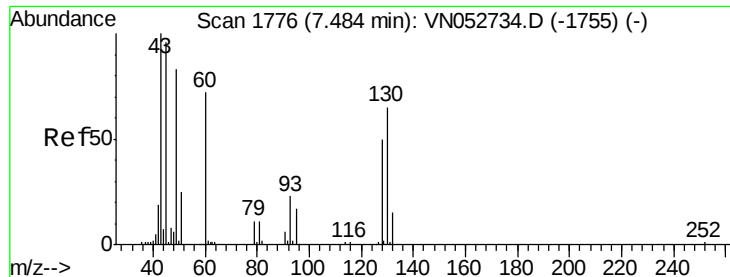
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

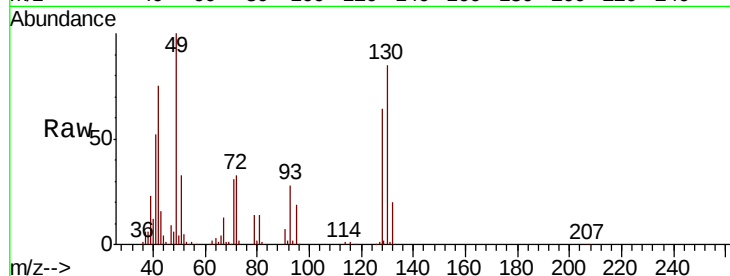
Tot Ion:128 Resp: 166404

Ion Ratio Lower Upper

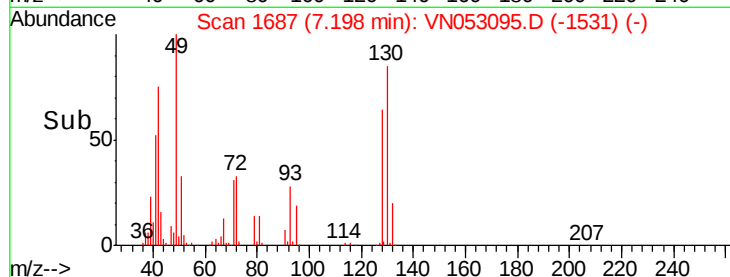
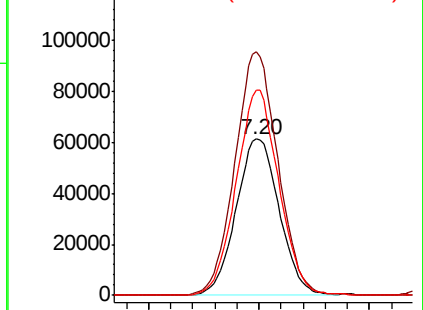
128 100

49 155.3 0.0 431.8

130 129.5 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VNO
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 18.505 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053095.D

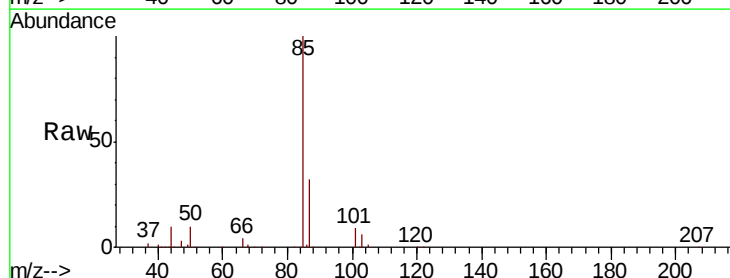
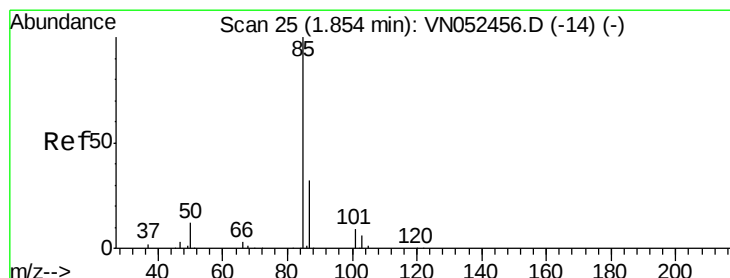
Acq: 21 Dec 2018 10:44

Tgt Ion: 85 Resp: 175381

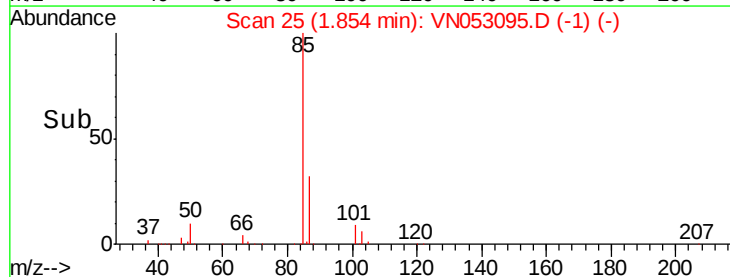
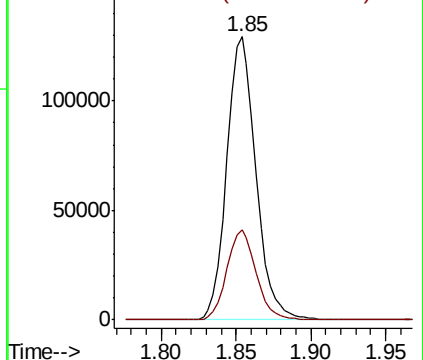
Ion Ratio Lower Upper

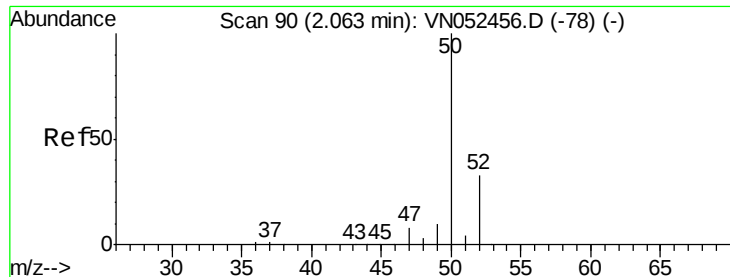
85 100

87 32.0 16.1 48.3



Abundance Ion 85.00 (84.70 to 85.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 18.337 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

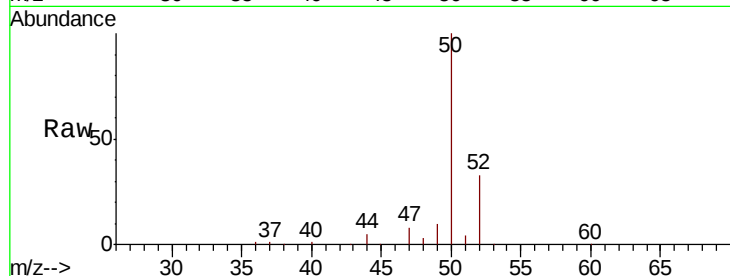
VN1221WBS01

Tot Ion: 50 Resp: 230477

Ion Ratio Lower Upper

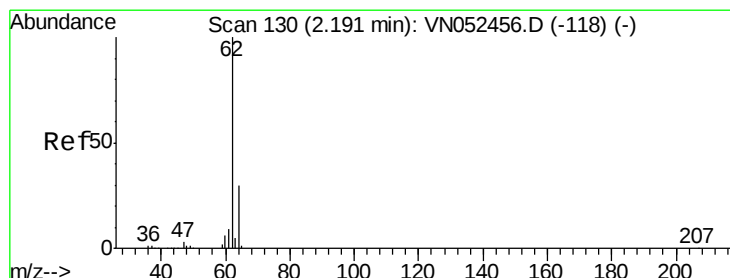
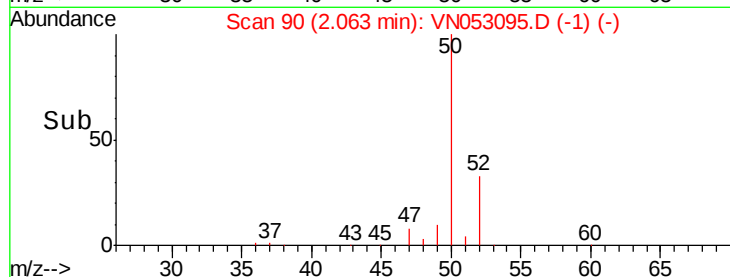
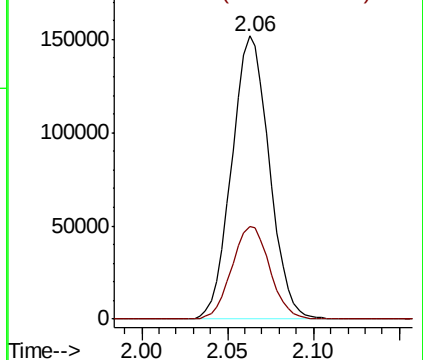
50 100

52 32.8 26.5 39.7



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 18.922 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053095.D

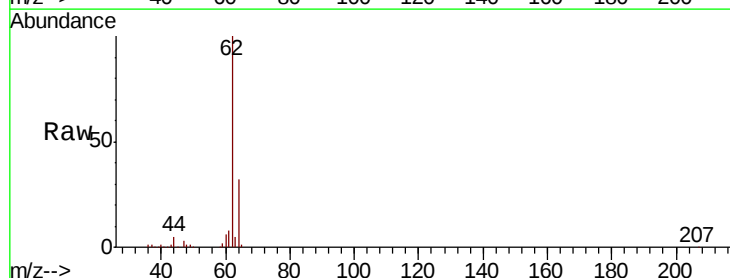
Acq: 21 Dec 2018 10:44

Tgt Ion: 62 Resp: 240042

Ion Ratio Lower Upper

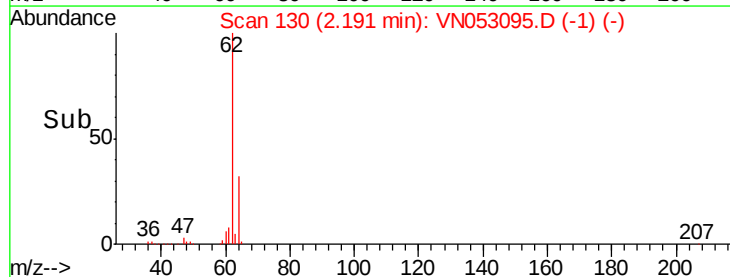
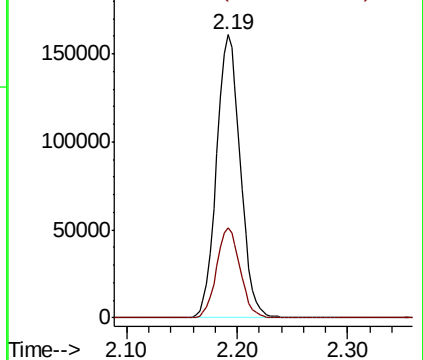
62 100

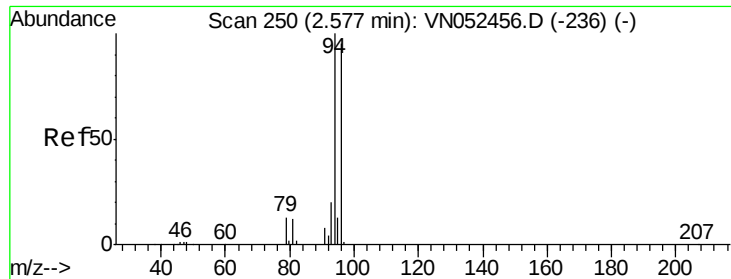
64 31.8 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 21.994 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

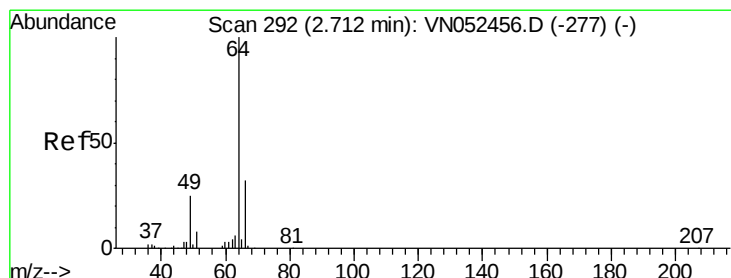
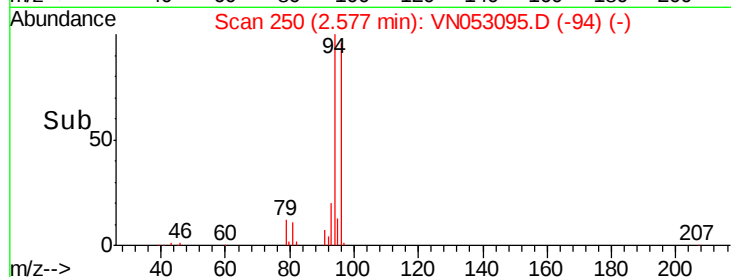
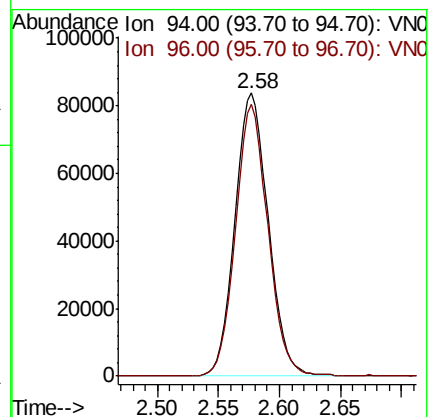
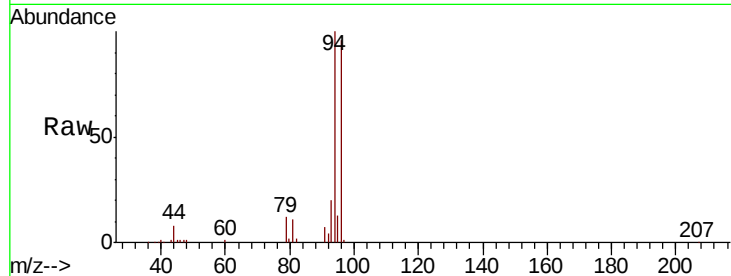
VN1221WBS01

Tot Ion: 94 Resp: 159088

Ion Ratio Lower Upper

94 100

96 96.0 76.2 114.2



#6

Chloroethane

Concen: 19.721 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053095.D

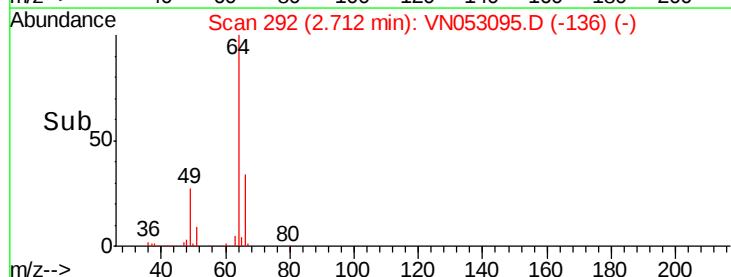
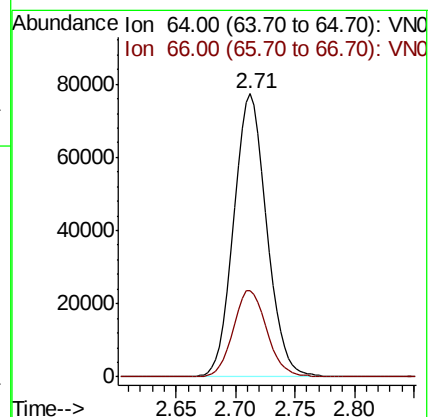
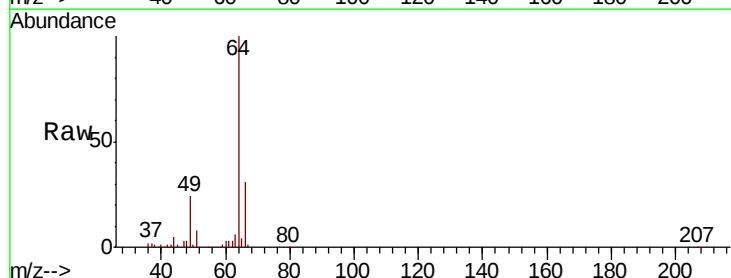
Acq: 21 Dec 2018 10:44

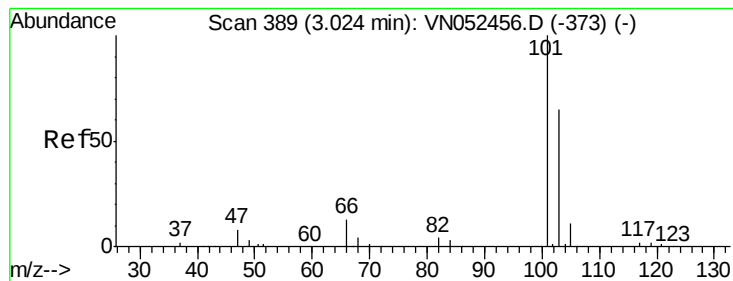
Tgt Ion: 64 Resp: 148778

Ion Ratio Lower Upper

64 100

66 30.6 25.6 38.4



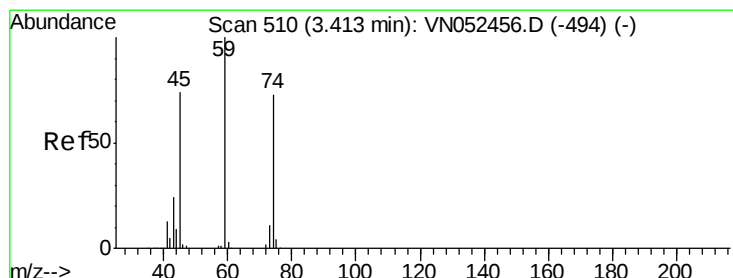
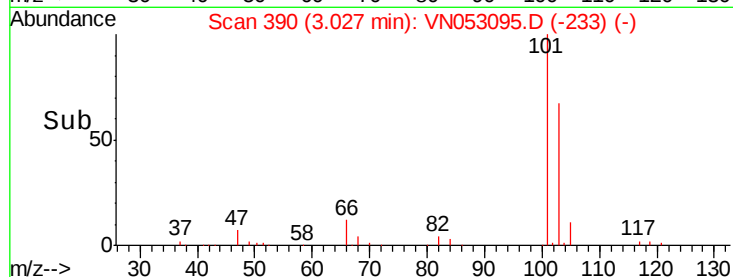
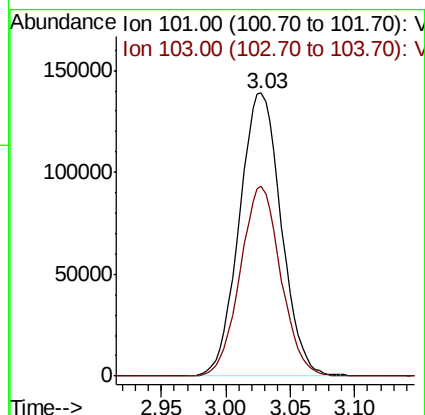
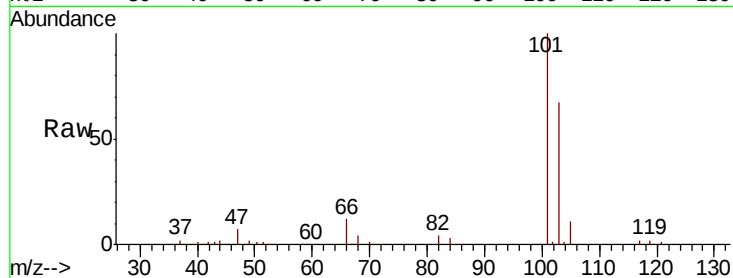


#7

Trichlorofluoromethane
Concen: 20.078 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

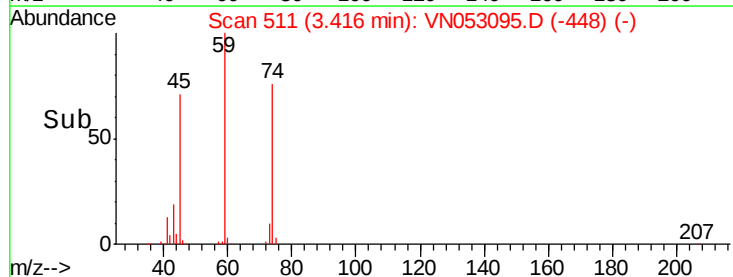
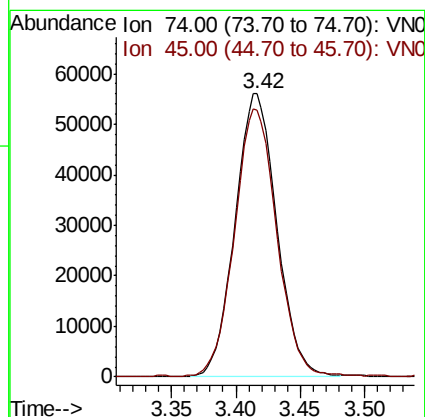
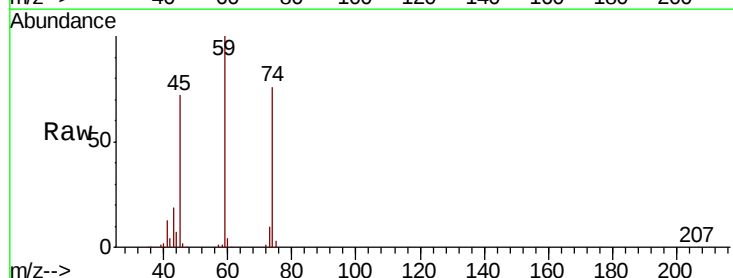
Tot Ion:101 Resp: 314342
Ion Ratio Lower Upper
101 100
103 67.0 52.1 78.1

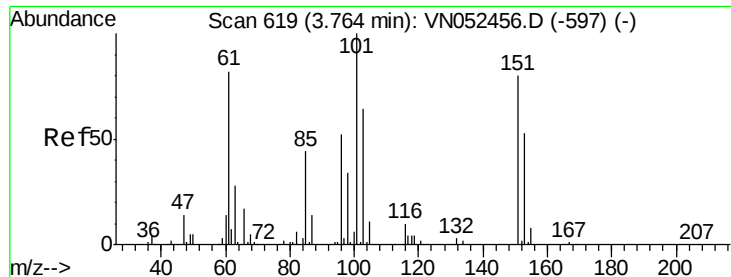


#8

Diethyl Ether
Concen: 21.810 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 74 Resp: 126085
Ion Ratio Lower Upper
74 100
45 95.9 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.463 ug/l

RT: 3.77 min Scan# 621

Delta R.T. 0.01 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

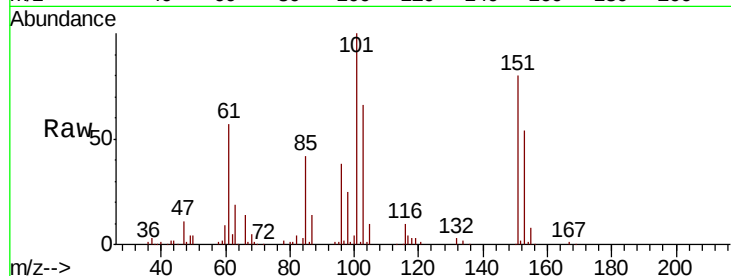
Tot Ion:101 Resp: 203086

Ion Ratio Lower Upper

101 100

85 41.4 0.0 82.6

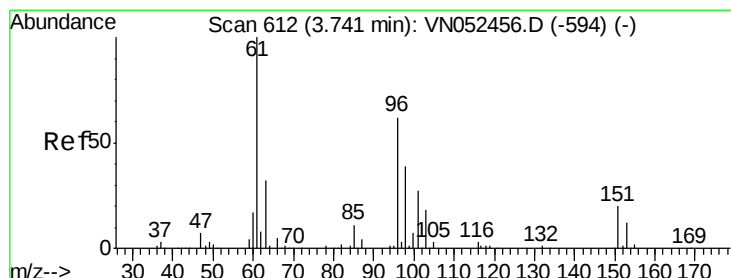
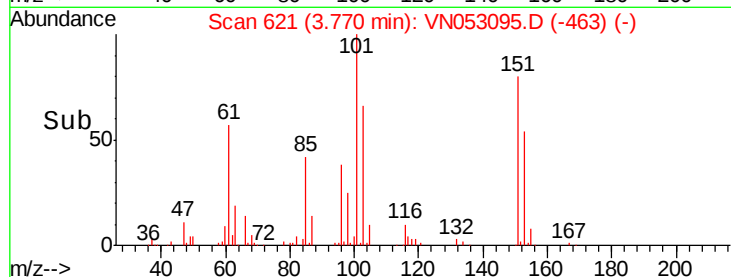
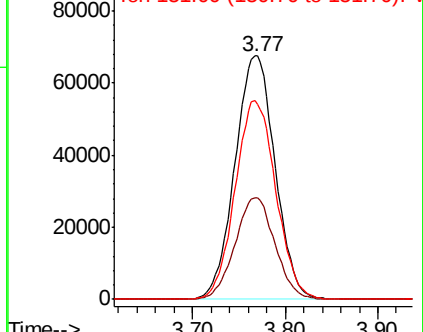
151 82.7 0.0 158.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 20.559 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

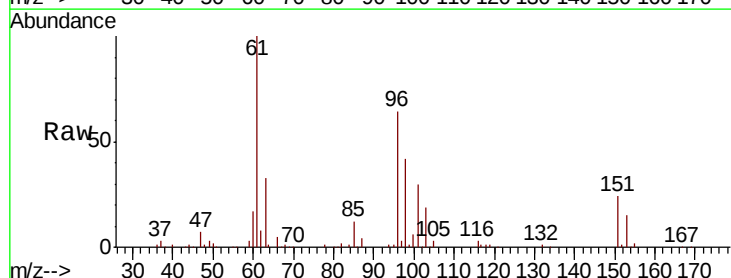
Tgt Ion: 96 Resp: 191851

Ion Ratio Lower Upper

96 100

61 156.0 129.4 194.2

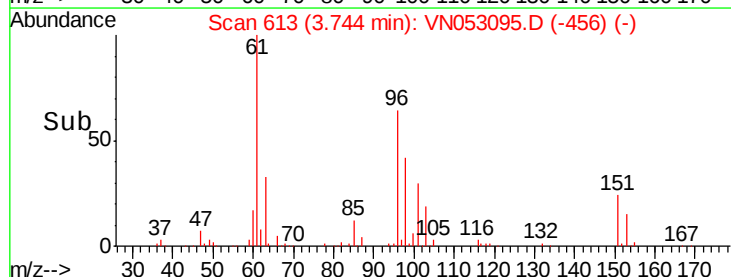
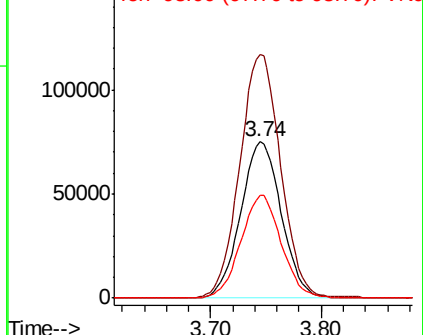
98 65.6 50.4 75.6

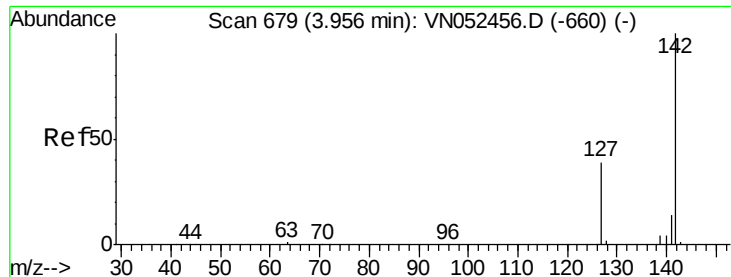


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

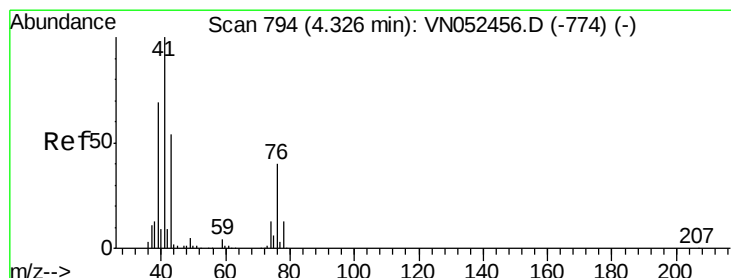
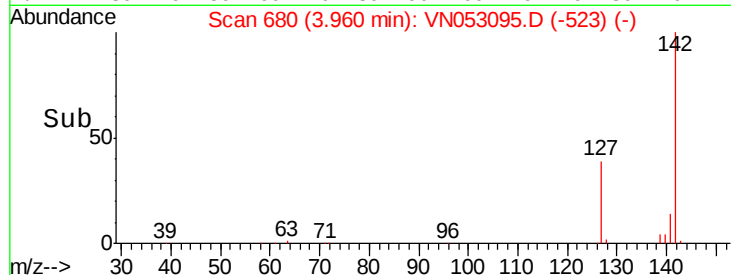
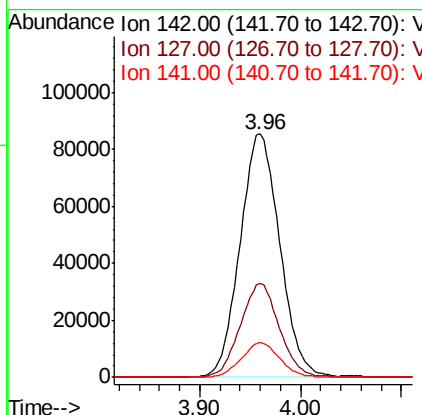
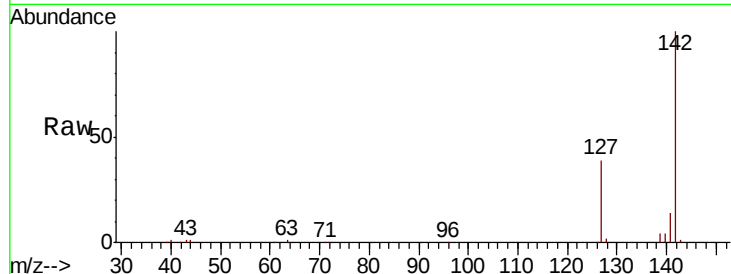




#11
Methvl Iodide
Concen: 18.013 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

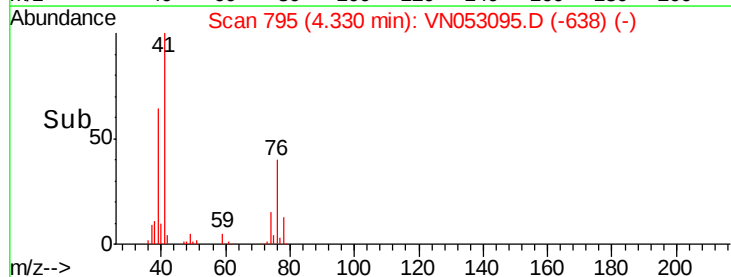
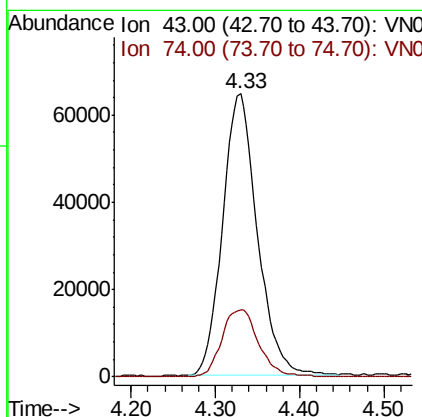
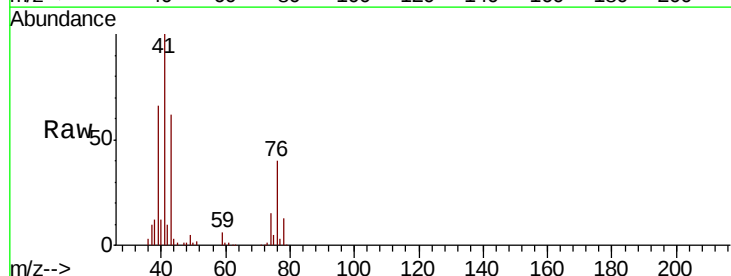
Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

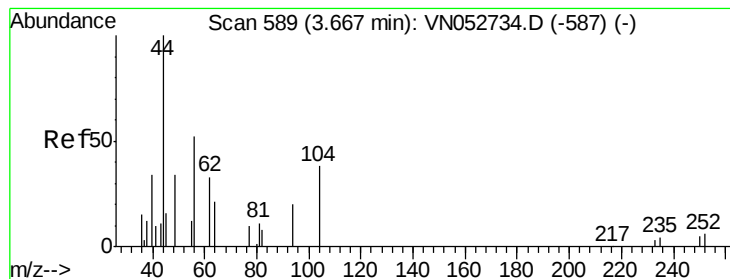
Tot Ion:142 Resp: 233377
Ion Ratio Lower Upper
142 100
127 38.8 19.4 58.1
141 14.4 7.2 21.6



#12
Methyl Acetate
Concen: 23.203 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 43 Resp: 183972
Ion Ratio Lower Upper
43 100
74 23.9 18.9 28.3





#13

Acrolein

Concen: 89.649 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

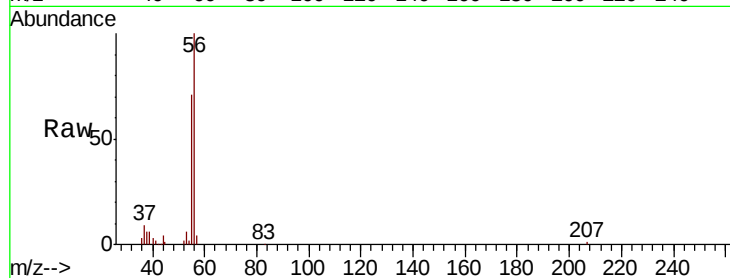
VN1221WBS01

Tot Ion: 56 Resp: 83495

Ion Ratio Lower Upper

56 100

55 72.2 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

40000

30000

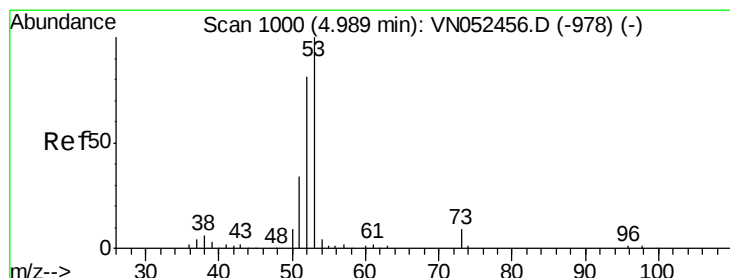
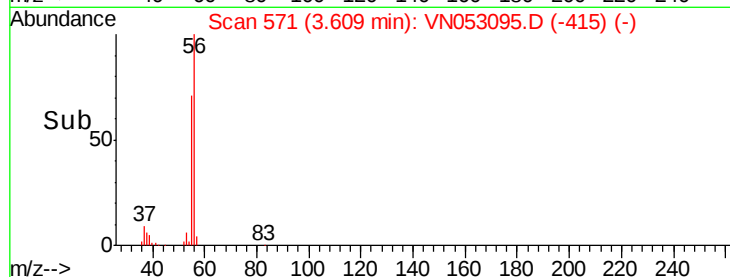
20000

10000

0

Time-->

3.50 3.60 3.70



#14

Acrylonitrile

Concen: 115.006 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

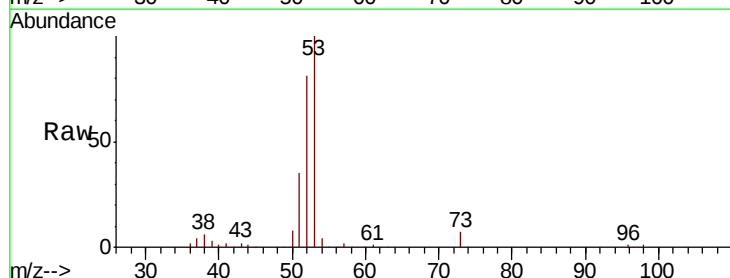
Tgt Ion: 53 Resp: 388524

Ion Ratio Lower Upper

53 100

52 81.8 39.9 119.7

51 35.7 17.6 52.9



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

150000

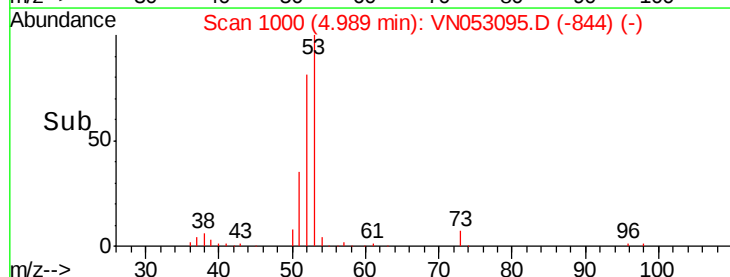
100000

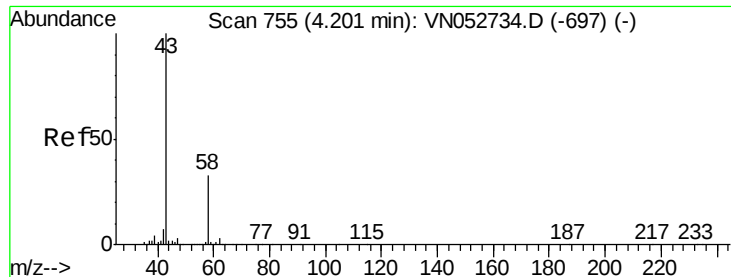
50000

0

Time-->

4.90 5.00 5.10





#15

Acetone

Concen: 96.412 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampled :

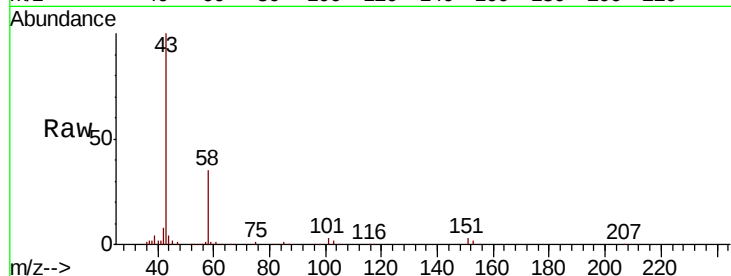
VN1221WBS01

Tot Ion: 58 Resp: 84351

Ion Ratio Lower Upper

58 100

43 288.8 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN052734.D (-697) (-)

Ion 43.00 (42.70 to 43.70): VN052734.D (-697) (-)

100000

80000

60000

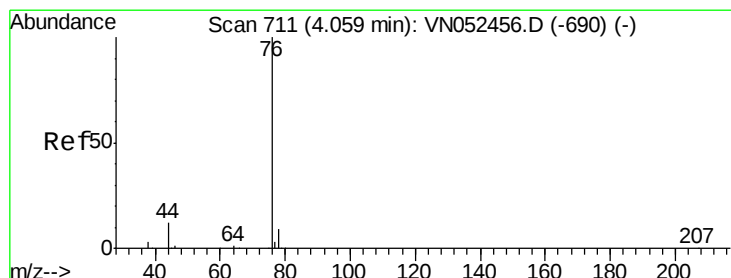
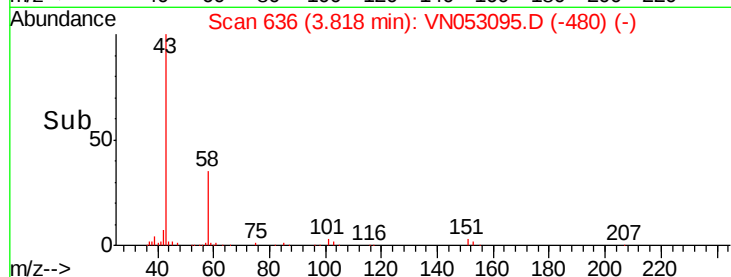
40000

20000

0

3.75 3.80 3.85 3.90

Time-->



#16

Carbon Disulfide

Concen: 18.022 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053095.D

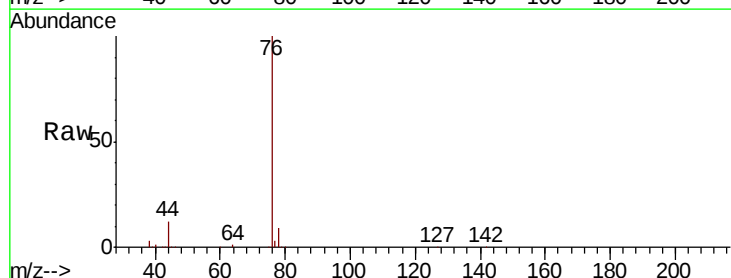
Acq: 21 Dec 2018 10:44

Tgt Ion: 76 Resp: 532424

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN052456.D (-690) (-)

Ion 78.00 (77.70 to 78.70): VN052456.D (-690) (-)

200000

150000

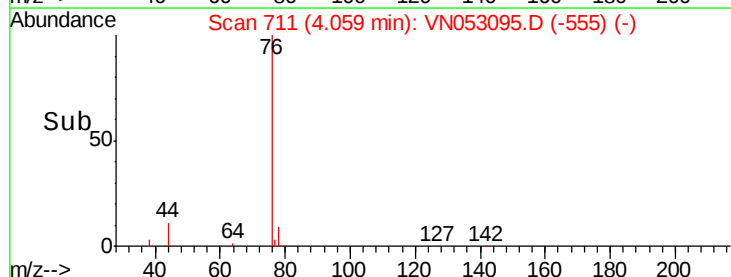
100000

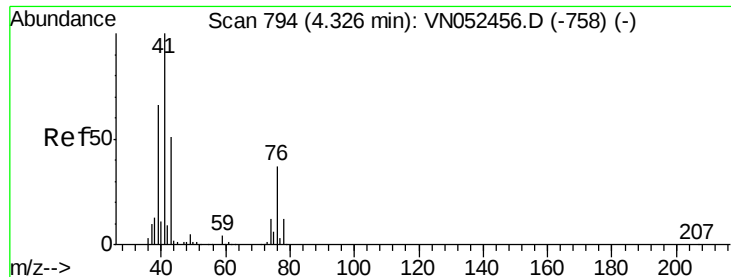
50000

0

4.00 4.10 4.20

Time-->





#17

Allvl chloride

Concen: 18.522 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampled :

VN1221WBS01

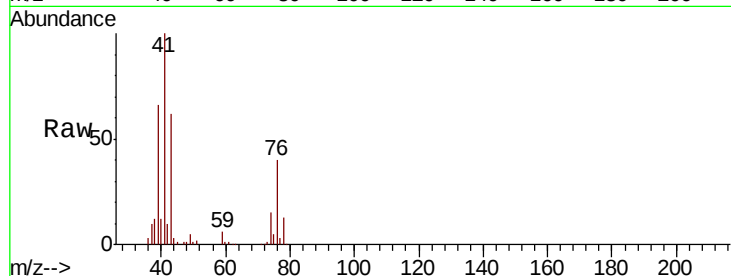
Tot Ion: 41 Resp: 301420

Ion Ratio Lower Upper

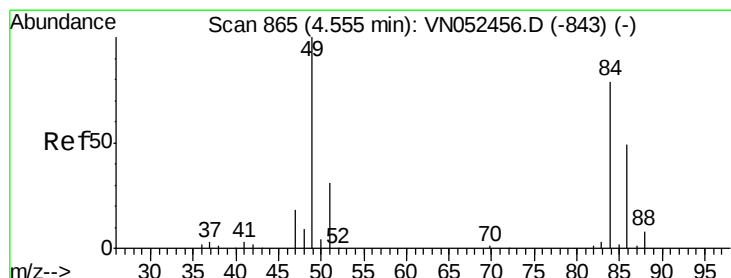
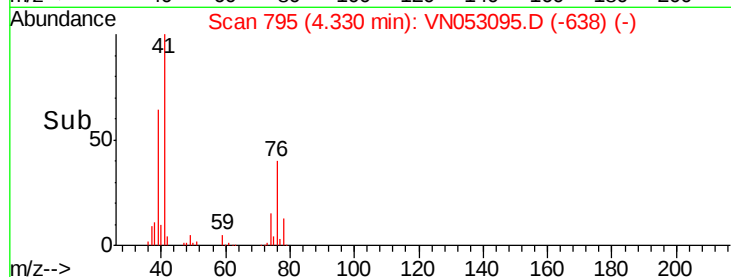
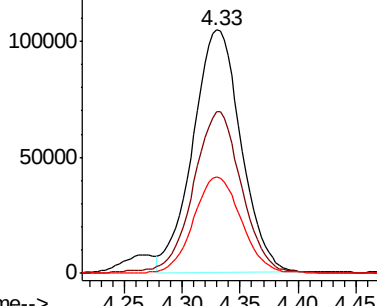
41 100

39 66.3 32.8 98.3

76 39.7 18.6 55.8



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 76.00 (75.70 to 76.70): VNO



#18

Methylene Chloride

Concen: 21.004 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Tgt Ion: 84 Resp: 226942

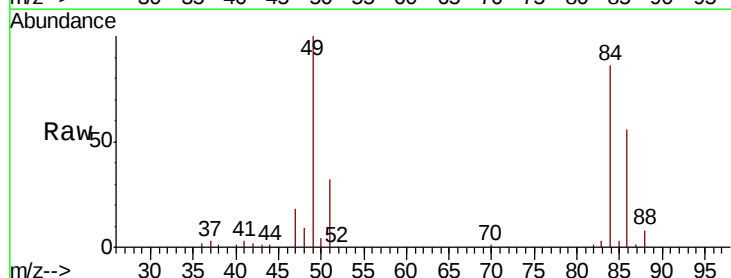
Ion Ratio Lower Upper

84 100

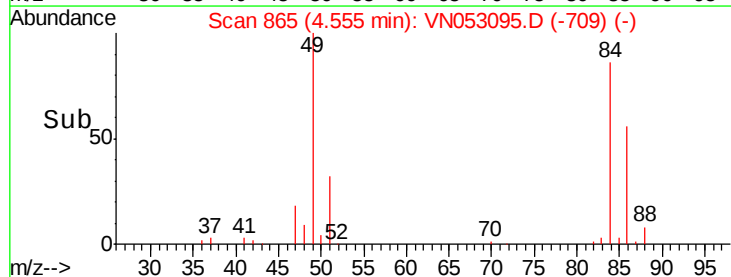
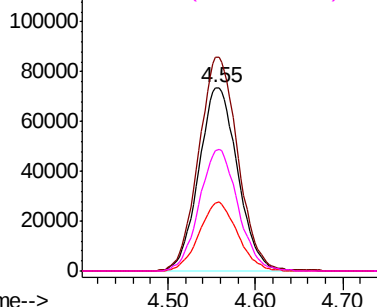
49 116.1 101.4 152.0

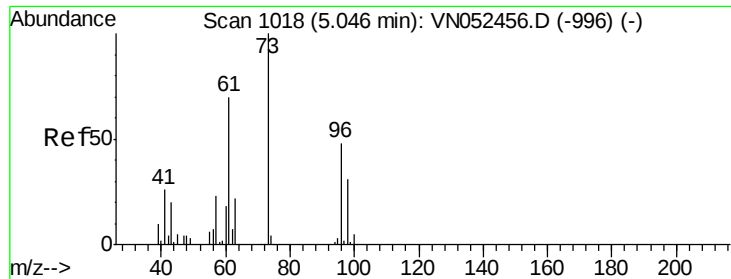
51 37.3 31.7 47.5

86 65.4 50.1 75.1



Abundance Ion 84.00 (83.70 to 84.70): VNO
Ion 49.00 (48.70 to 49.70): VNO
Ion 51.00 (50.70 to 51.70): VNO
Ion 86.00 (85.70 to 86.70): VNO

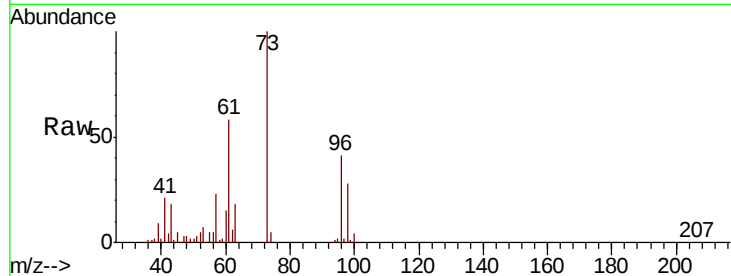




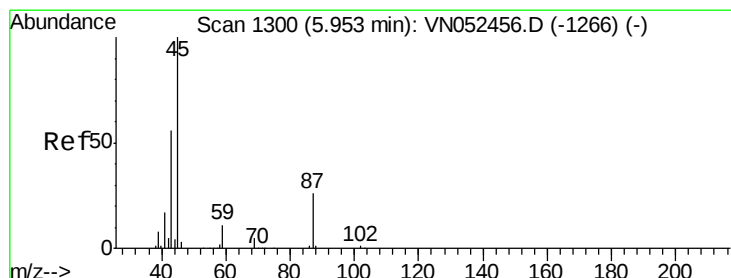
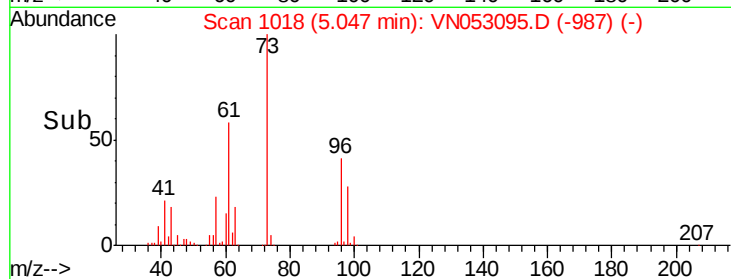
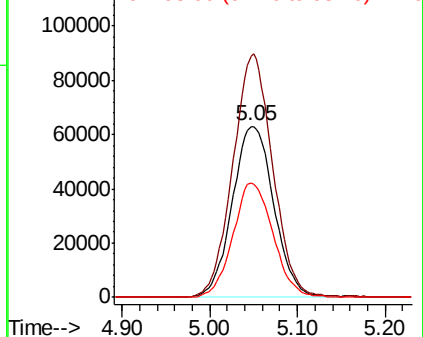
#19
trans-1,2-Dichloroethene
Concen: 20.703 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

Tot Ion: 96 Resp: 207907
Ion Ratio Lower Upper
96 100
61 141.1 118.2 177.4
98 67.1 51.4 77.2

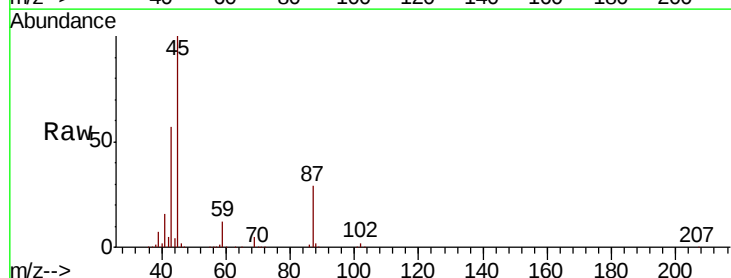


Abundance Ion 96.00 (95.70 to 96.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 98.00 (97.70 to 98.70): VNC

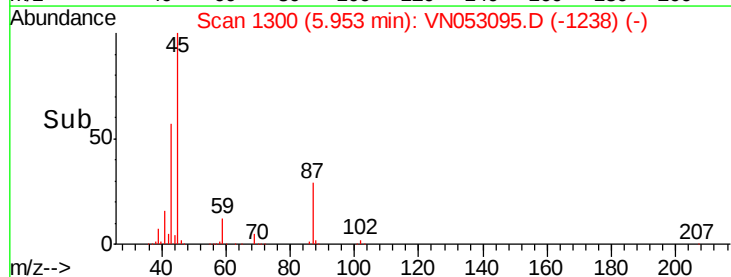
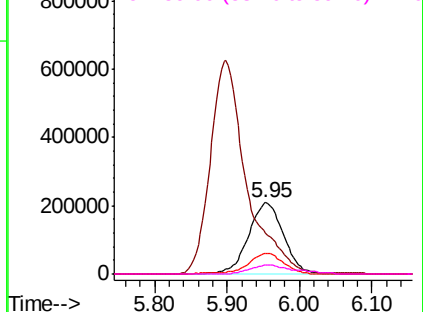


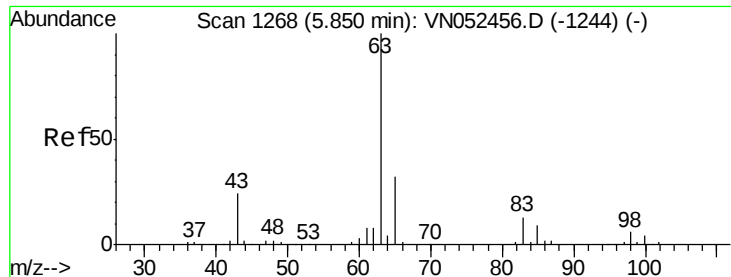
#20
Diisopropyl ether
Concen: 20.553 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 45 Resp: 702885
Ion Ratio Lower Upper
45 100
43 55.9 47.8 71.8
87 29.1 21.3 31.9
59 11.7 8.9 13.3



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC

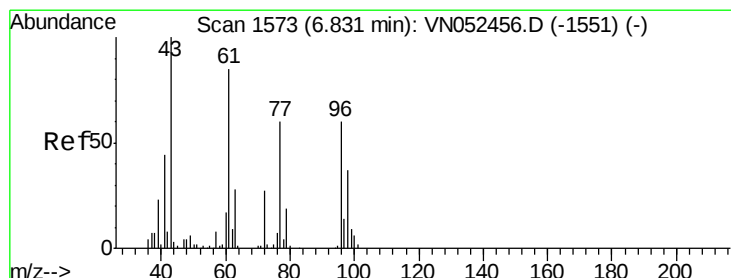
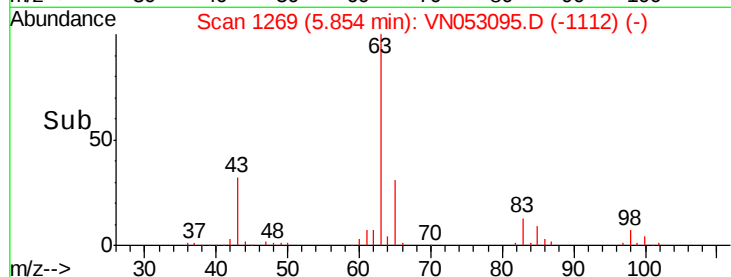
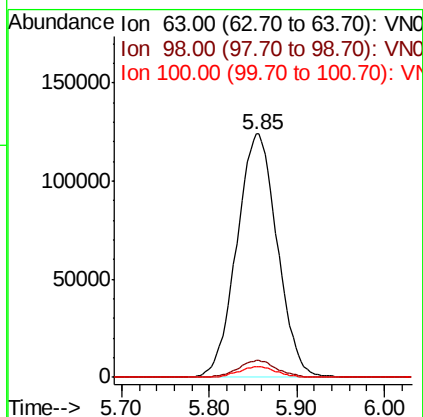
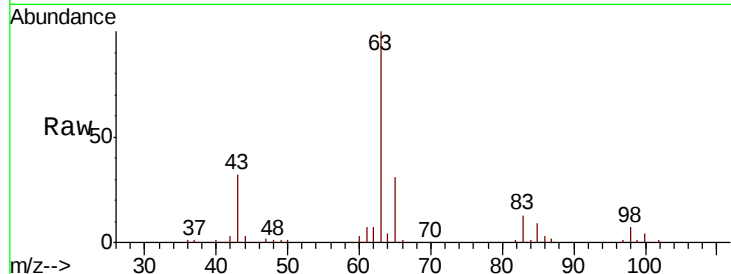




#21
 1,1-Dichloroethane
 Concen: 20.421 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

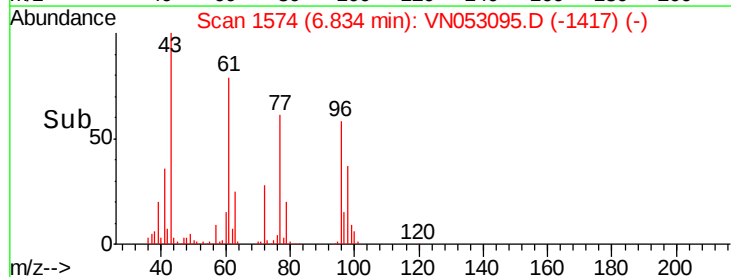
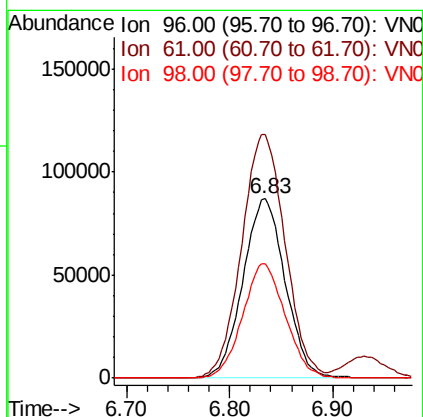
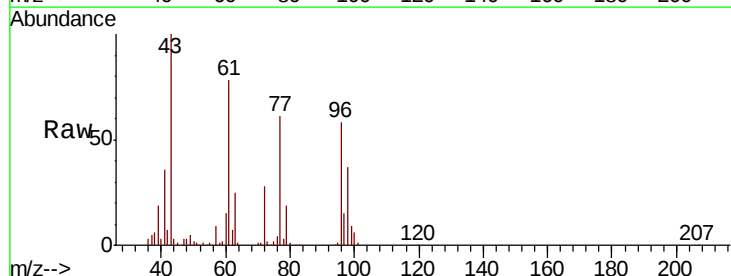
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

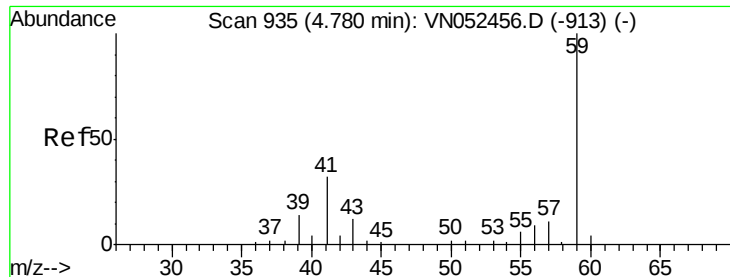
Tot Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.0	9.2
100	4.2	1.8	5.5



#22
 cis-1,2-Dichloroethene
 Concen: 21.571 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.9	116.7	175.1
98	64.4	50.8	76.2



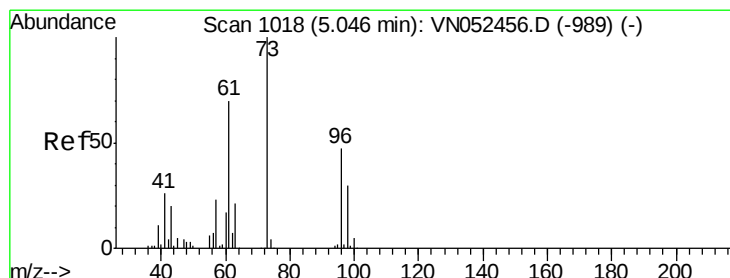
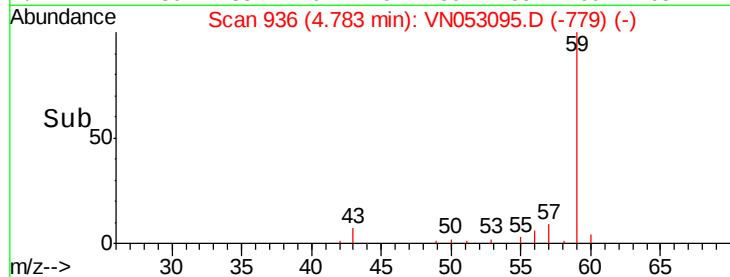
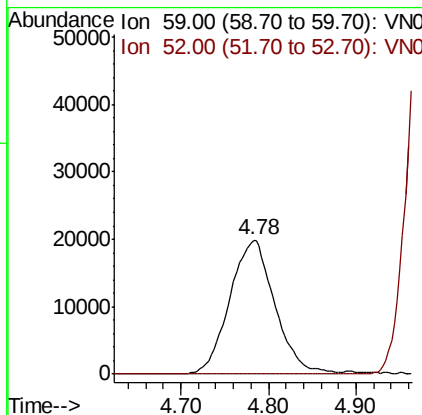
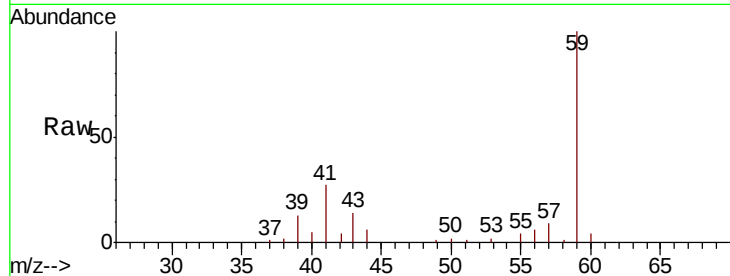


#23

tert-Butyl Alcohol
 Concen: 141.593 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

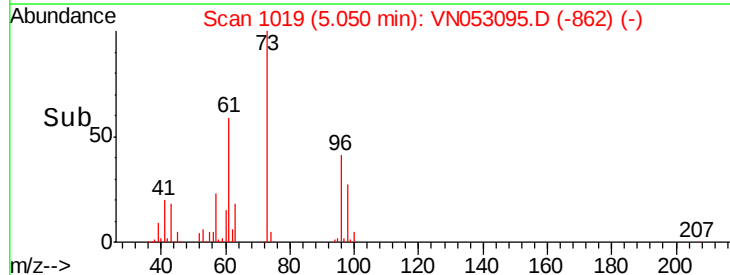
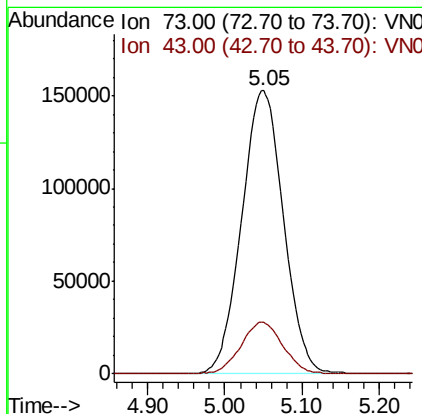
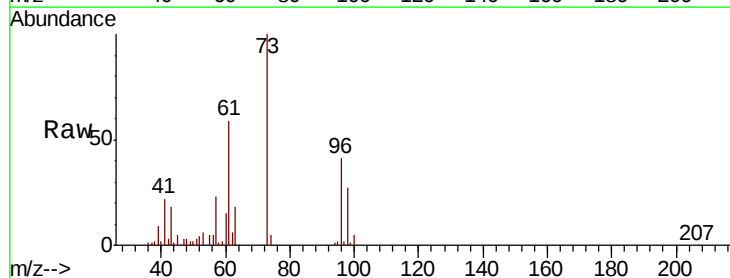
Tot Ion: 59 Resp: 71158
 Ion Ratio Lower Upper
 59 100
 52 0.2 0.0 0.0#

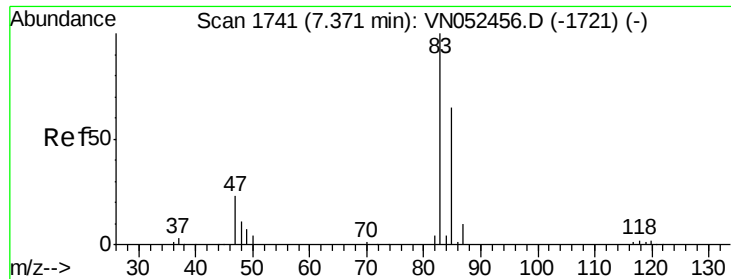


#24

Methyl tert-Butyl Ether
 Concen: 23.475 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion: 73 Resp: 574684
 Ion Ratio Lower Upper
 73 100
 43 17.9 15.8 23.8

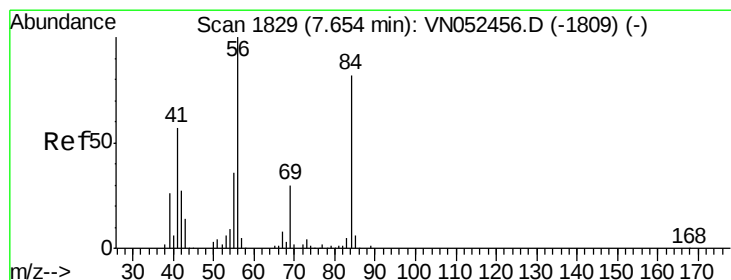
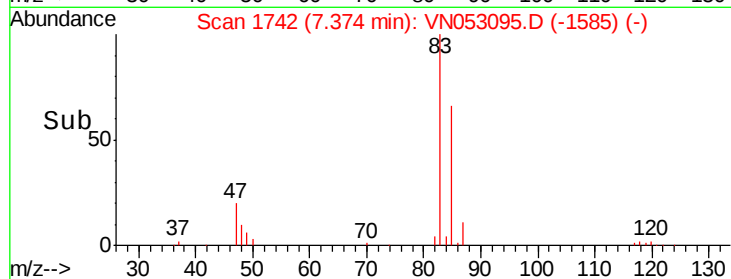
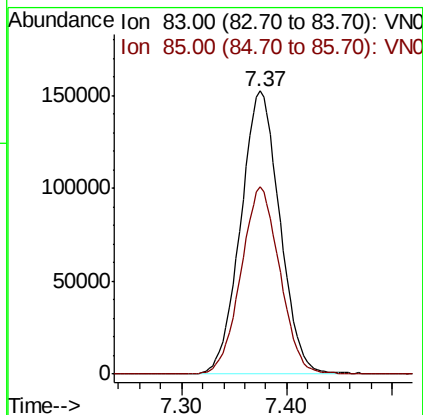
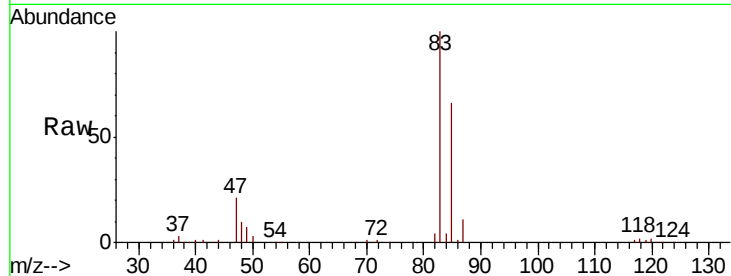




#25
Chloroform
Concen: 20.917 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

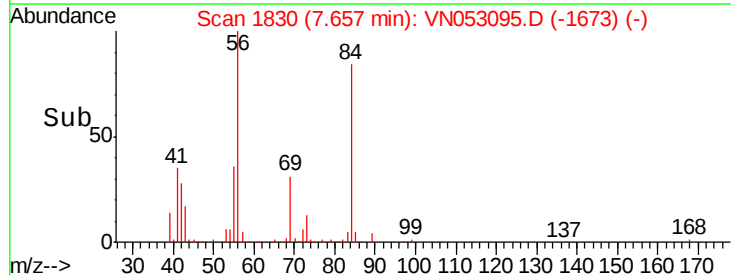
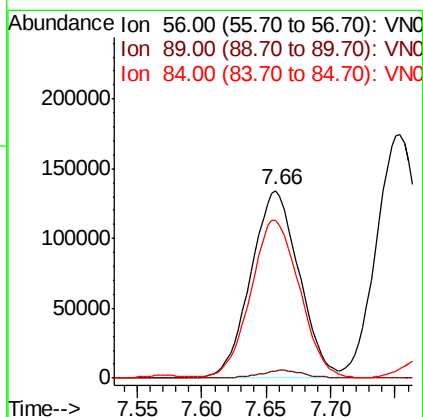
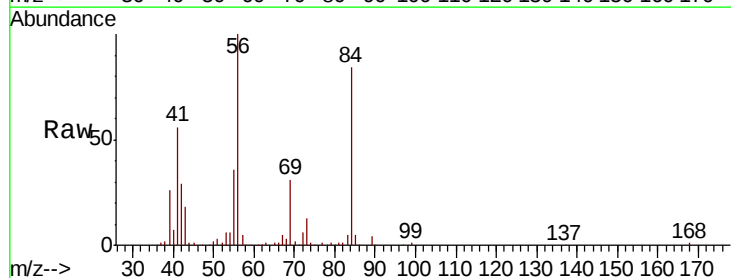
Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

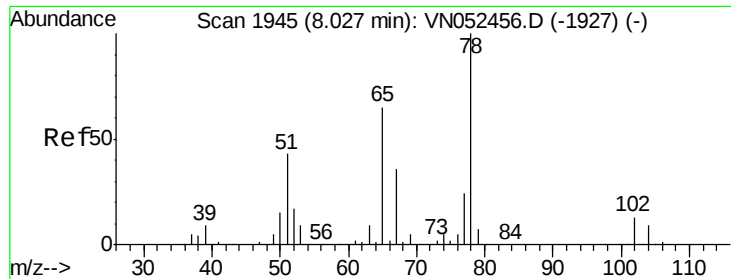
Tot Ion: 83 Resp: 393331
Ion Ratio Lower Upper
83 100
85 66.1 51.7 77.5



#26
Cyclohexane
Concen: 19.034 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 56 Resp: 349918
Ion Ratio Lower Upper
56 100
89 3.8 0.5 0.7#
84 85.4 66.2 99.2

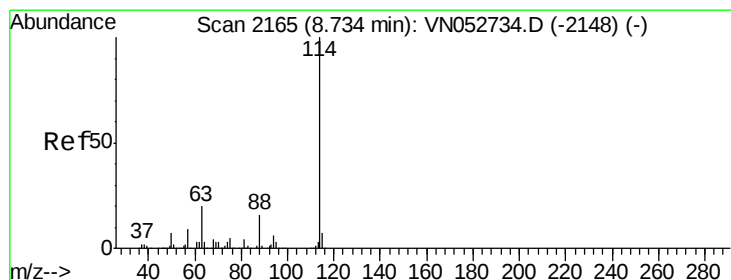
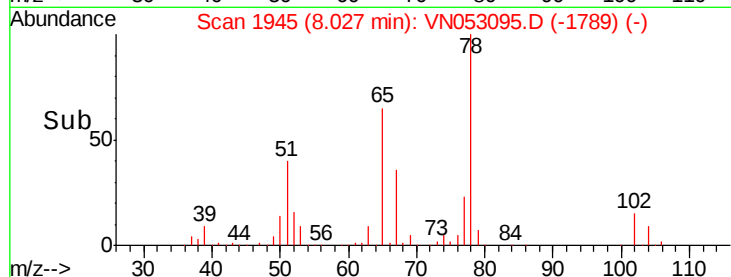
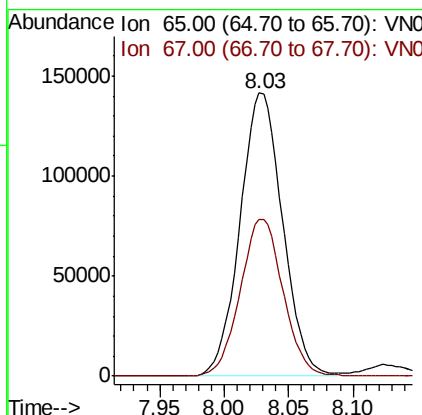
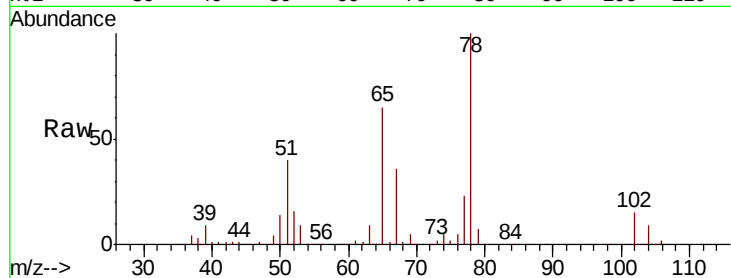




#27
 1,2-Dichloroethane-d4
 Concen: 19.034 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

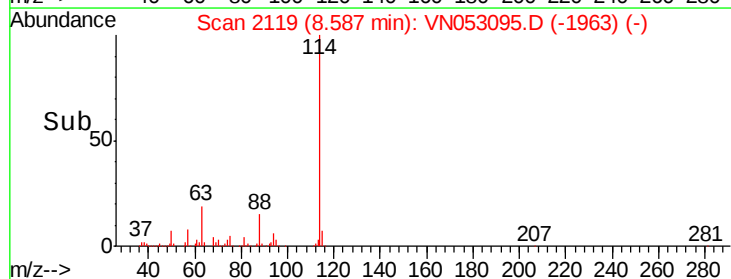
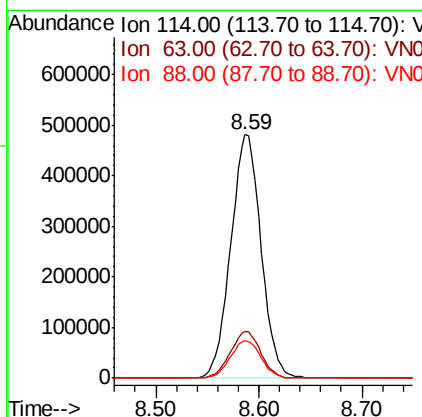
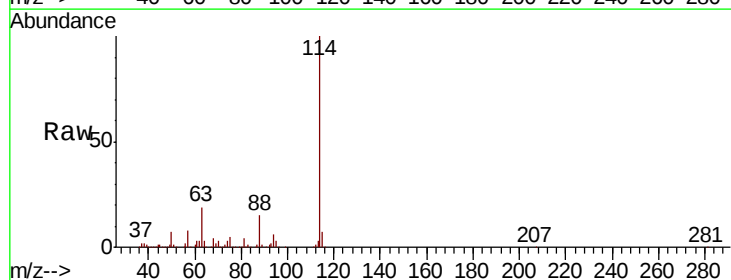
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

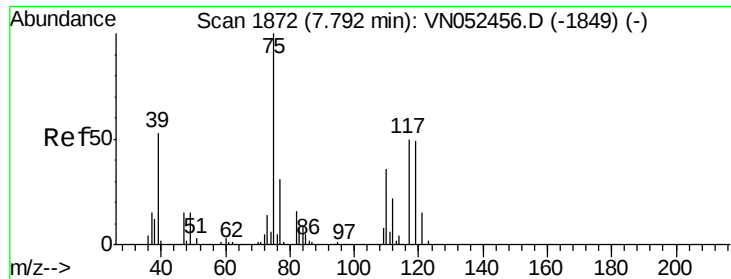
Tot Ion: 65 Resp: 325429
 Ion Ratio Lower Upper
 65 100
 67 56.0 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion: 114 Resp: 984391
 Ion Ratio Lower Upper
 114 100
 63 19.4 16.9 25.3
 88 15.6 12.8 19.2

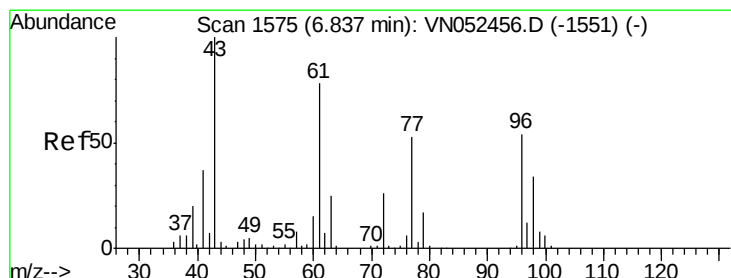
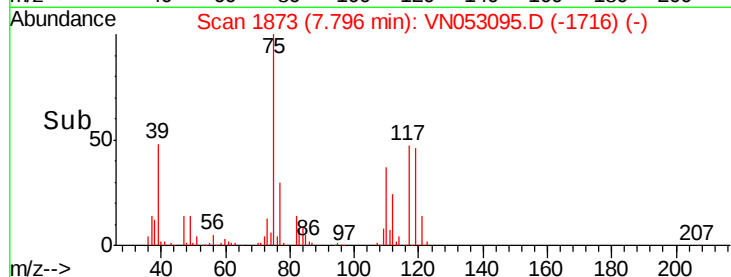
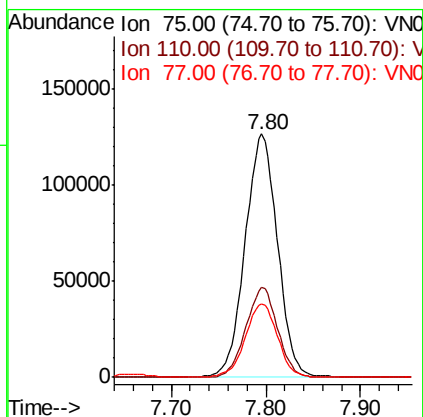
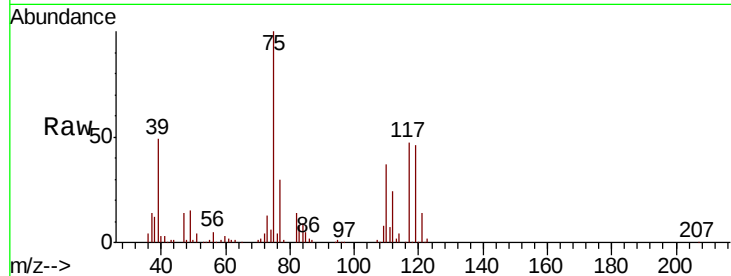




#29
 1,1-Dichloropropene
 Concen: 20.042 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

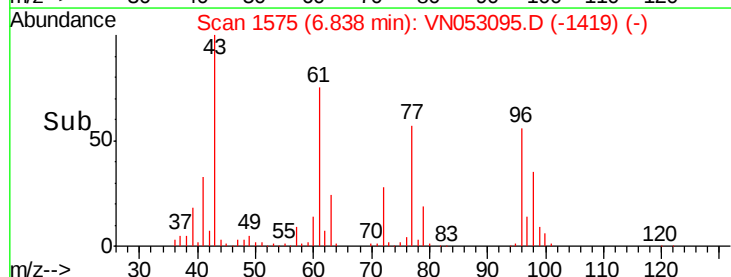
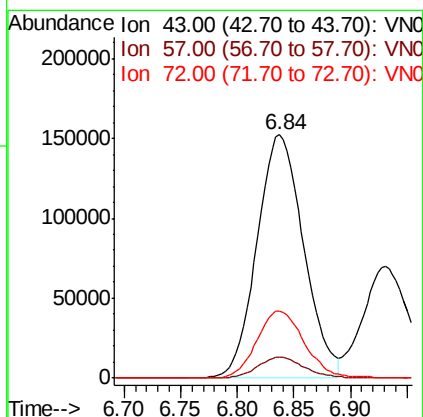
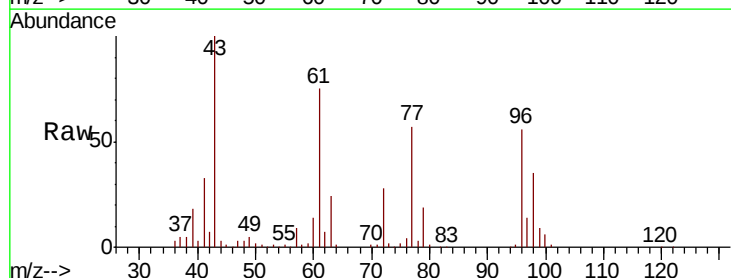
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

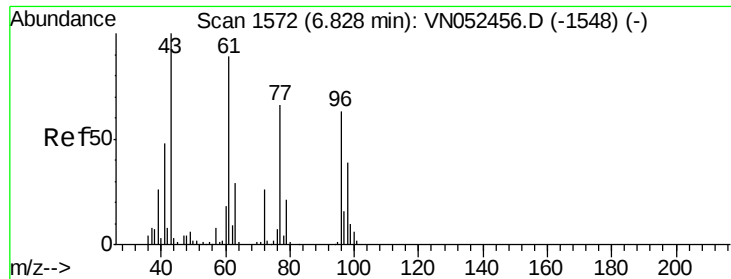
Tot Ion	Ratio	Lower	Upper
75	100		
110	36.1	0.0	70.2
77	30.1	0.0	62.6



#30
 2-Butanone
 Concen: 107.923 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.6	6.2	9.4
72	28.3	21.0	31.6





#31

2,2-Dichloropropane

Concen: 21.572 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

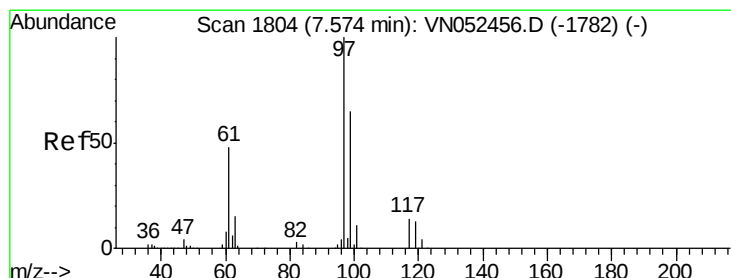
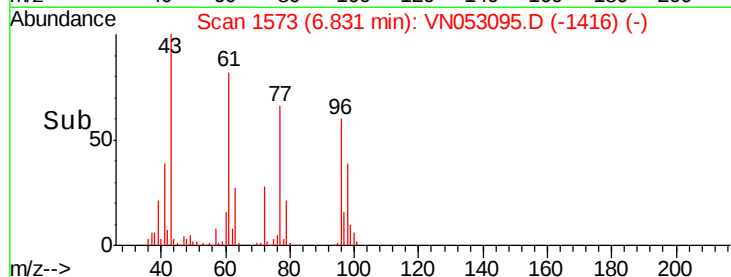
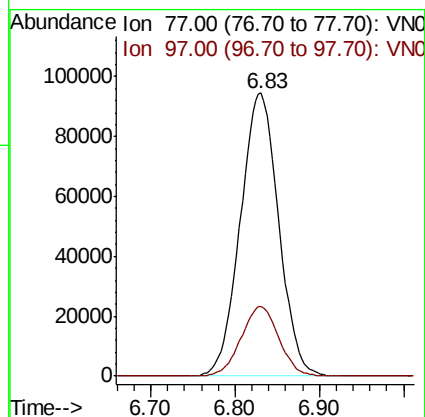
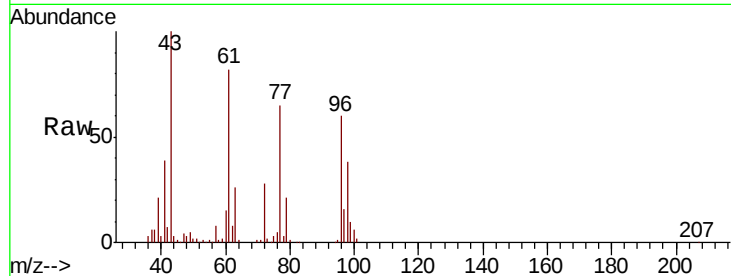
VN1221WBS01

Tot Ion: 77 Resp: 298540

Ion Ratio Lower Upper

77 100

97 24.1 18.7 28.1



#32

1,1,1-Trichloroethane

Concen: 21.018 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

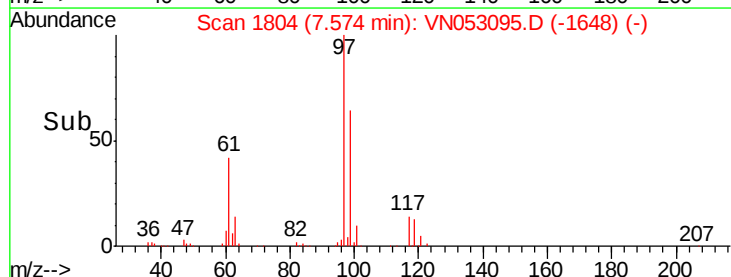
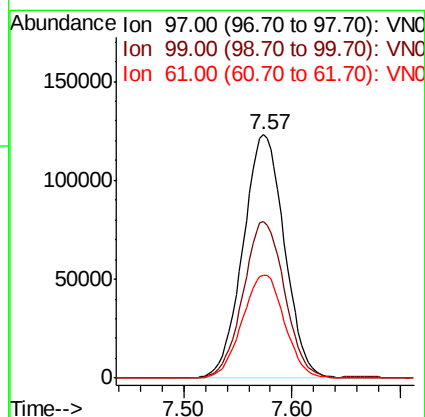
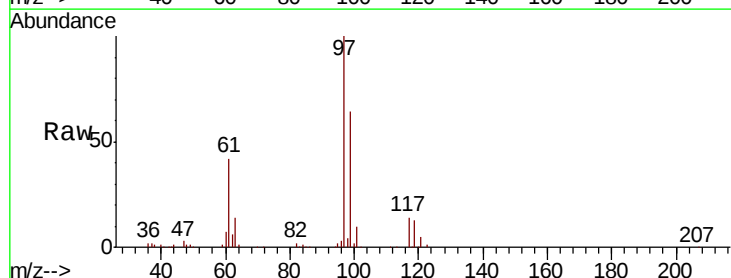
Tgt Ion: 97 Resp: 328759

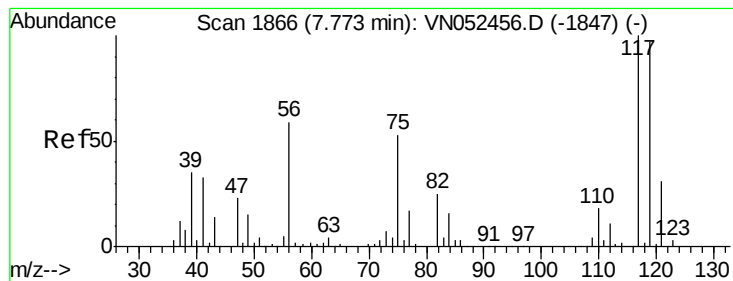
Ion Ratio Lower Upper

97 100

99 64.4 50.9 76.3

61 43.0 38.1 57.1





#33

Carbon Tetrachloride

Concen: 20.288 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampled :

VN1221WBS01

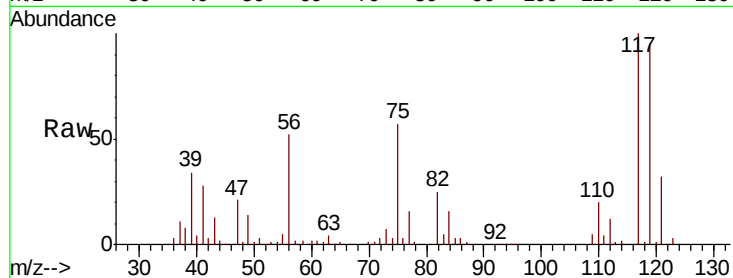
Tot Ion:117 Resp: 277671

Ion Ratio Lower Upper

117 100

119 94.8 77.3 115.9

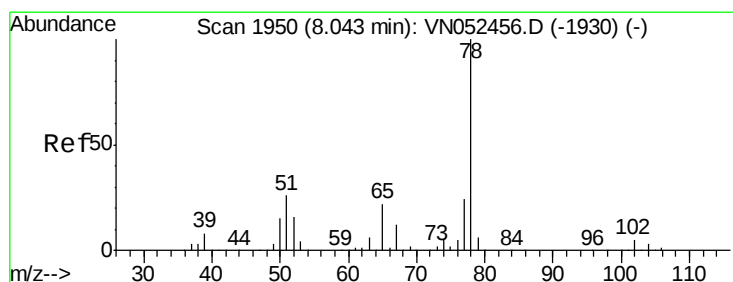
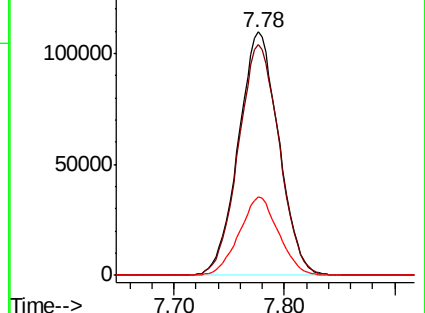
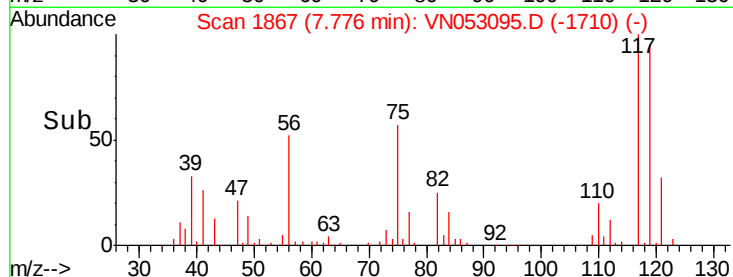
121 32.2 24.9 37.3



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: 20.417 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

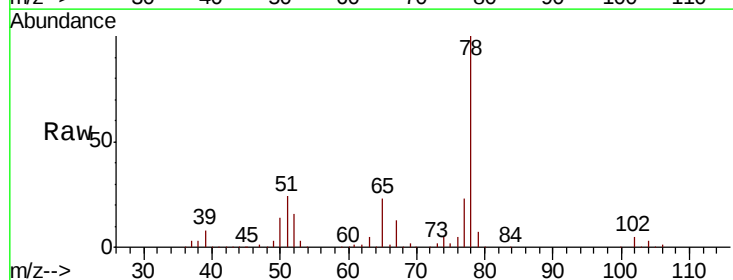
Tgt Ion: 78 Resp: 922771

Ion Ratio Lower Upper

78 100

77 23.2 19.0 28.6

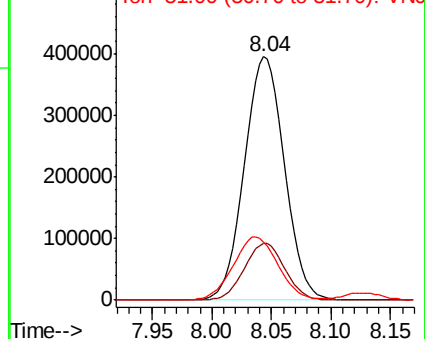
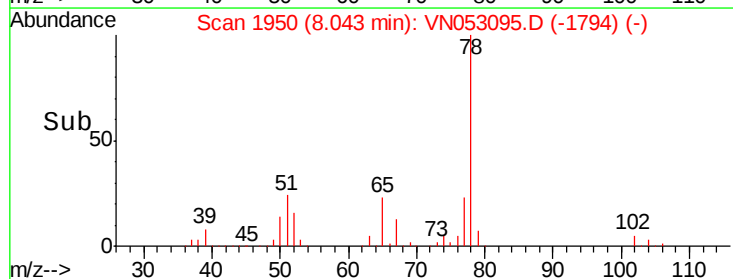
51 23.8 20.5 30.7

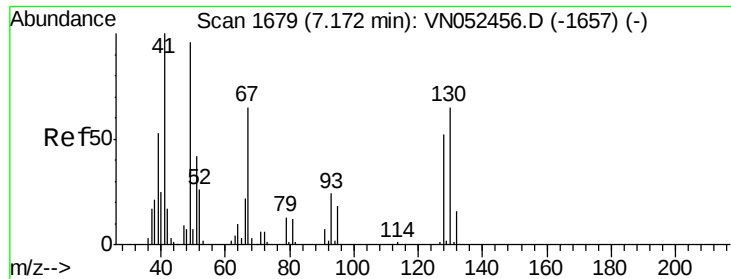


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

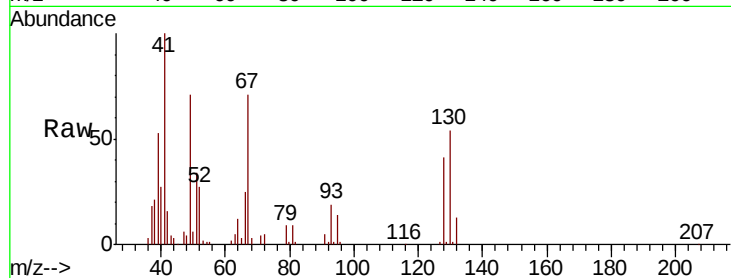




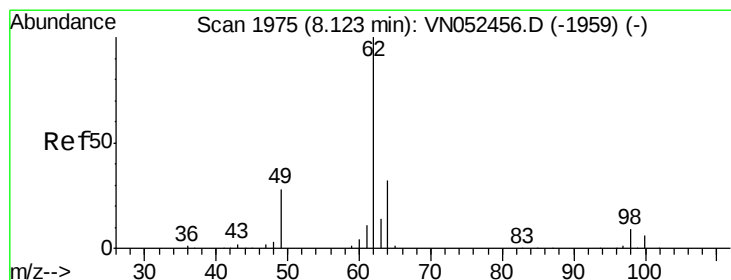
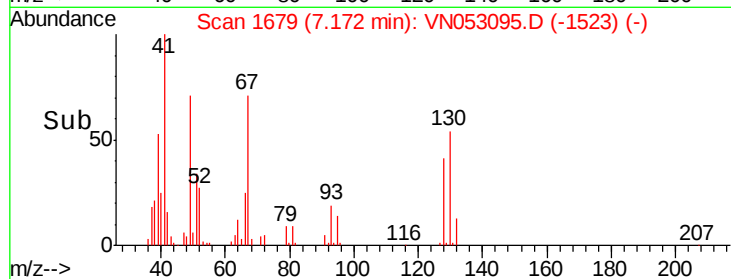
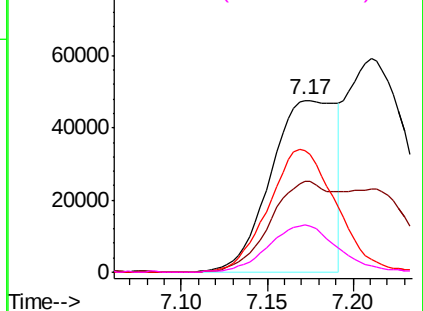
#35
Methacrylonitrile
Concen: 24.993 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

Tot Ion:	41	Resp:	124735
Ion	Ratio	Lower	Upper
41	100		
39	52.7	26.6	79.7
67	71.3	32.3	96.9
52	27.5	13.0	38.9

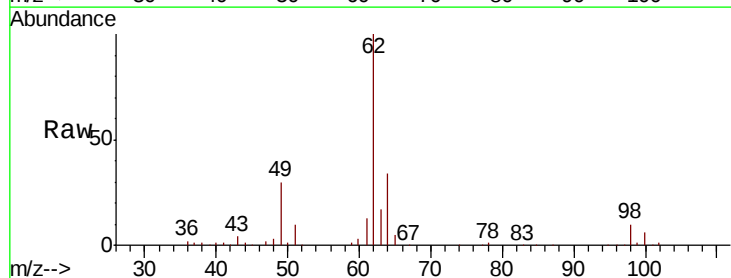


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

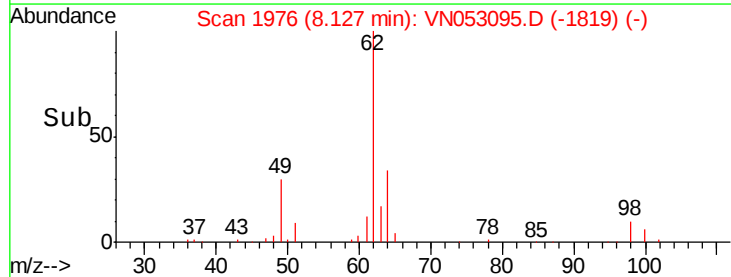
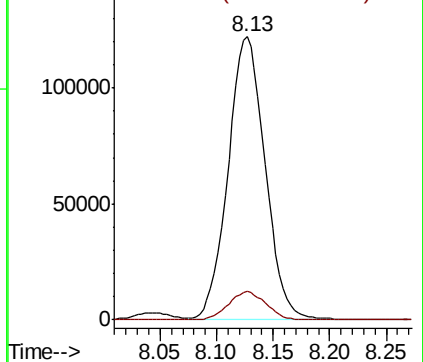


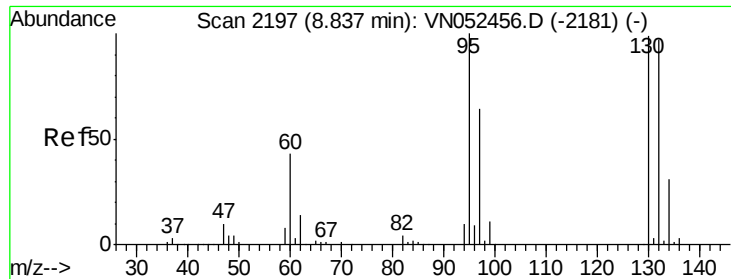
#36
1,2-Dichloroethane
Concen: 20.364 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion:	62	Resp:	278897
Ion	Ratio	Lower	Upper
62	100		
98	10.2	7.4	11.2



Abundance Ion 62.00 (61.70 to 62.70): VNC
Ion 98.00 (97.70 to 98.70): VNC

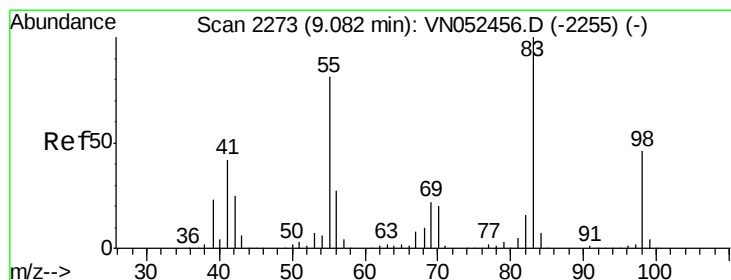
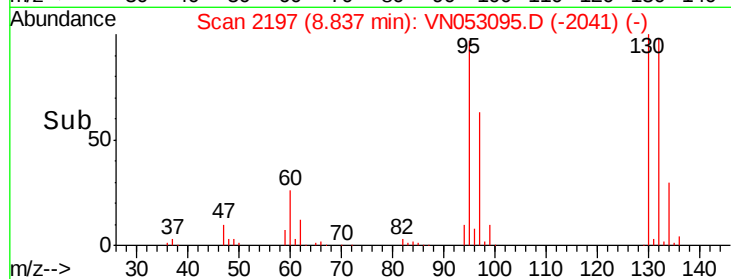
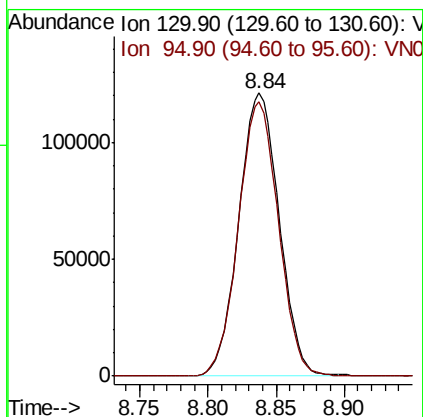
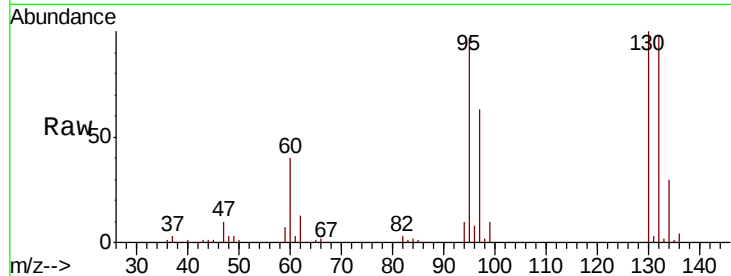




#37
 Trichloroethene
 Concen: 21.763 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

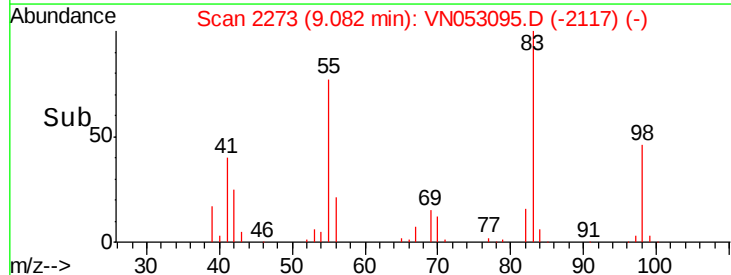
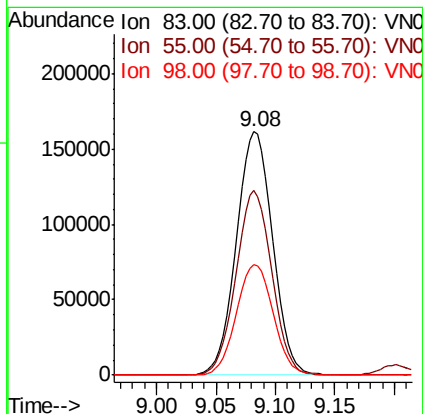
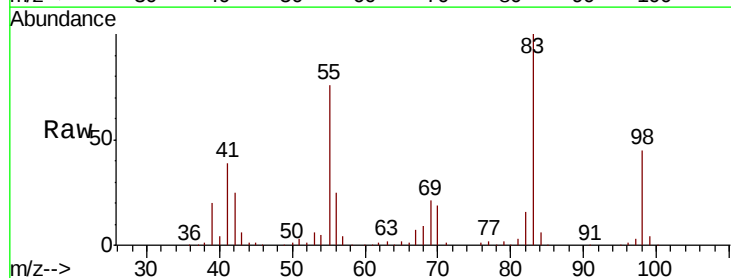
Instrument :
 MSVOA_N
 ClientSampled :
 VN1221WBS01

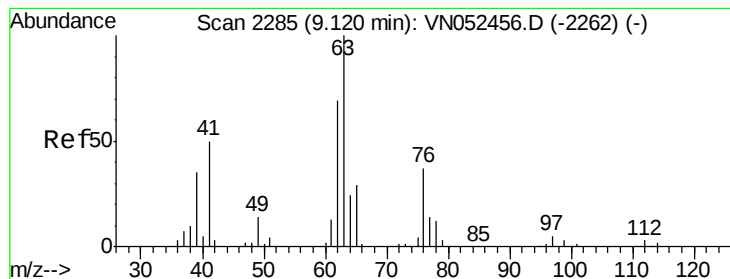
Tot Ion:130 Resp: 249416
 Ion Ratio Lower Upper
 130 100
 95 97.1 81.0 121.4



#38
 Methylcyclohexane
 Concen: 18.384 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion: 83 Resp: 342110
 Ion Ratio Lower Upper
 83 100
 55 74.8 39.8 119.4
 98 46.2 22.9 68.5





#39

1,2-Dichloropropane

Concen: 20.358 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

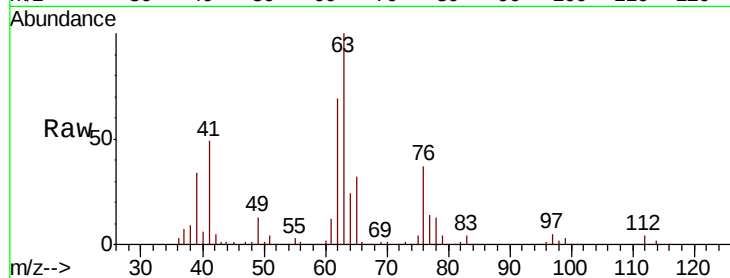
VN1221WBS01

Tot Ion: 63 Resp: 246645

Ion Ratio Lower Upper

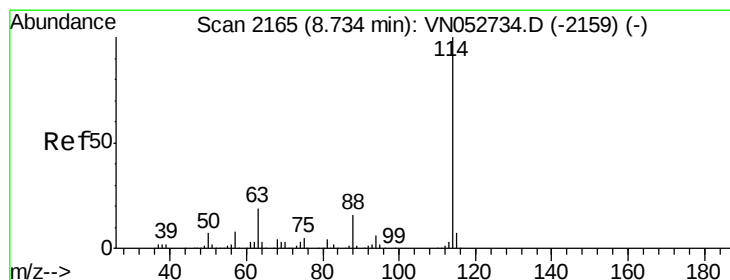
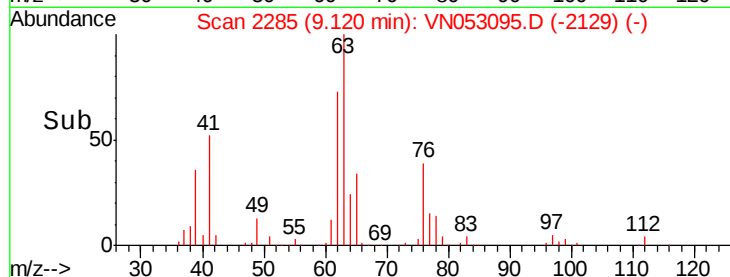
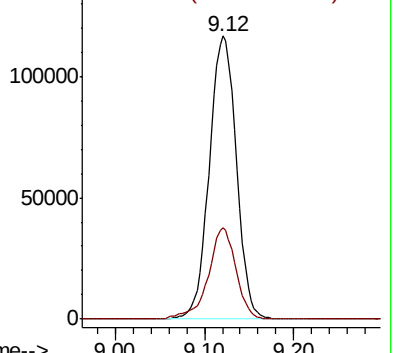
63 100

65 32.4 23.6 35.4



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 21.766 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

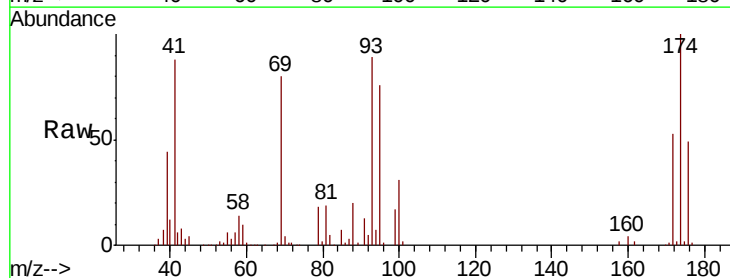
Tgt Ion: 93 Resp: 142502

Ion Ratio Lower Upper

93 100

95 84.4 0.0 168.4

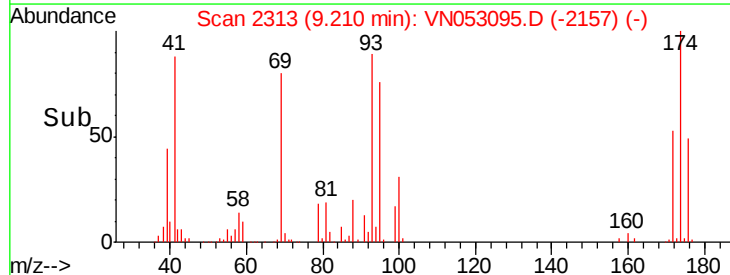
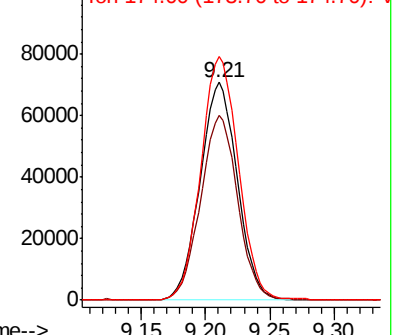
174 112.9 0.0 210.0

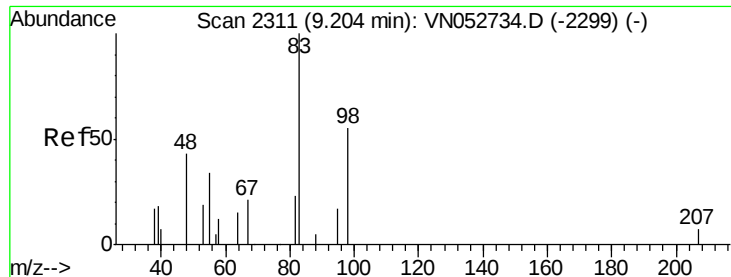


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 20.548 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

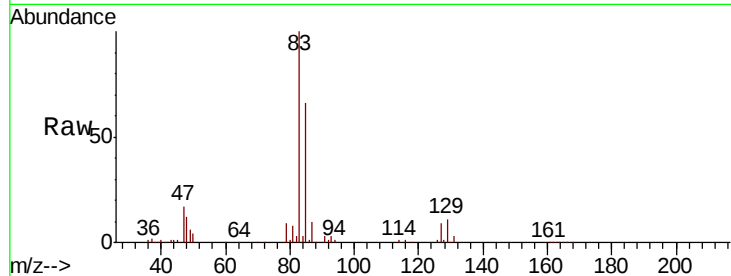
Tot Ion: 83 Resp: 297217

Ion Ratio Lower Upper

83 100

85 65.9 52.4 78.6

127 9.2 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN052734.D (-2299) (-)

Ion 85.00 (84.70 to 85.70): VN052734.D (-2299) (-)

Ion 127.00 (126.70 to 127.70): VN052734.D (-2299) (-)

9.40

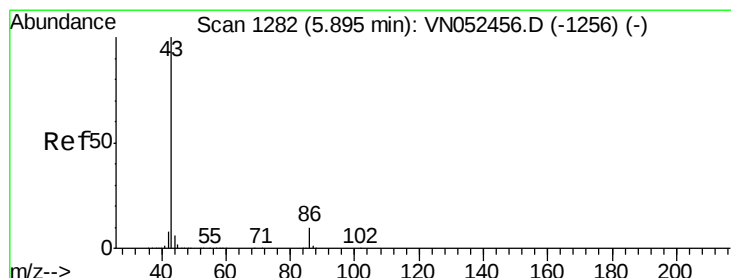
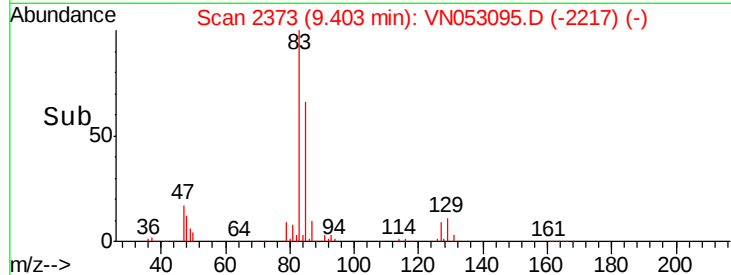
150000

100000

50000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#42

Vinyl Acetate

Concen: 99.457 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN053095.D

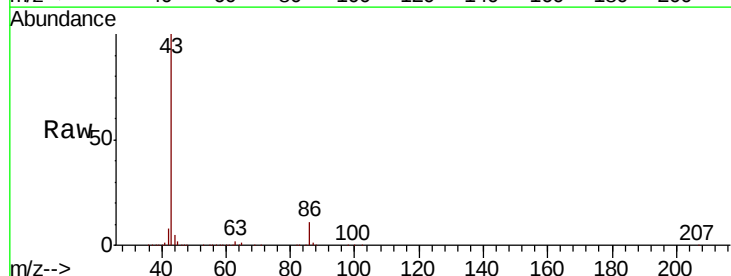
Acq: 21 Dec 2018 10:44

Tgt Ion: 43 Resp: 2164616

Ion Ratio Lower Upper

43 100

86 9.2 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN052456.D (-1256) (-)

Ion 86.00 (85.70 to 86.70): VN052456.D (-1256) (-)

5.90

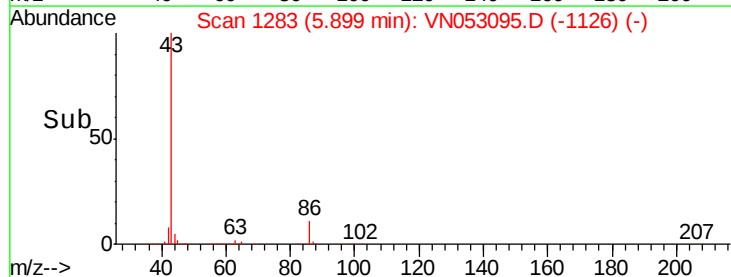
600000

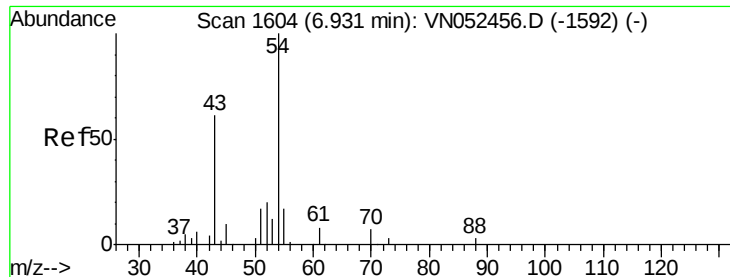
400000

200000

0

Time--> 5.70 5.80 5.90 6.00 6.10

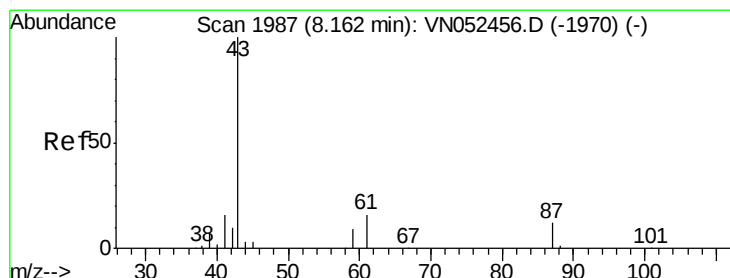
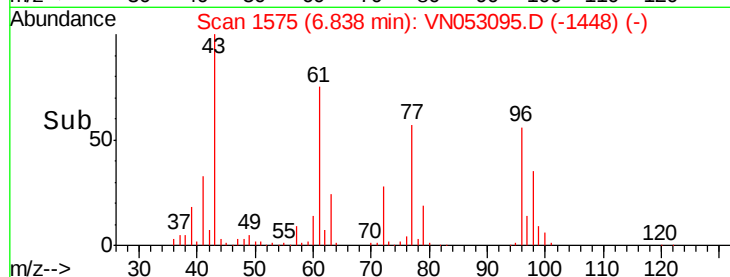
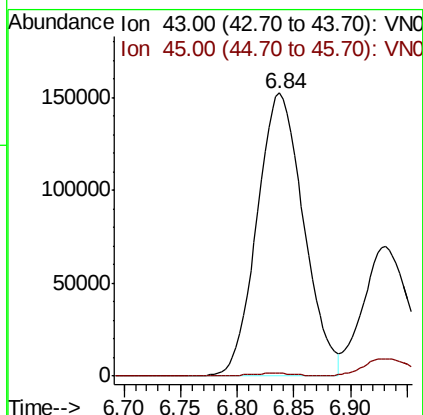
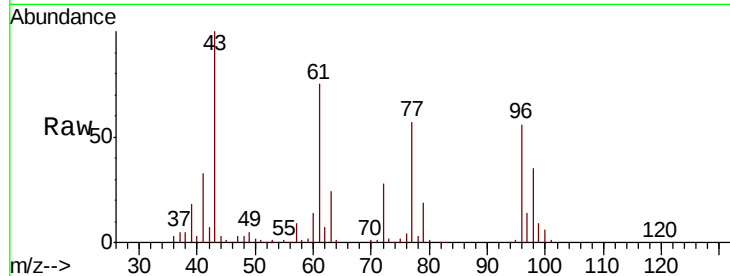




#43
Ethyl Acetate
Concen: 50.754 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.09 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

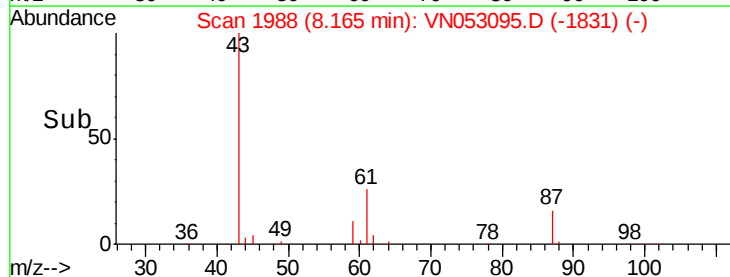
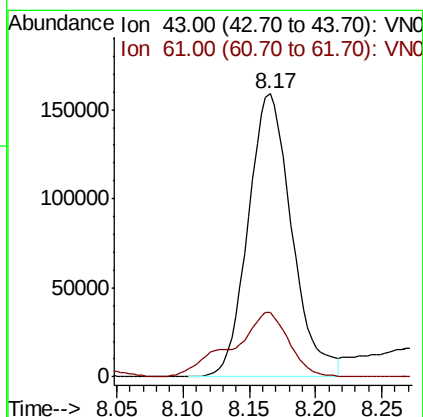
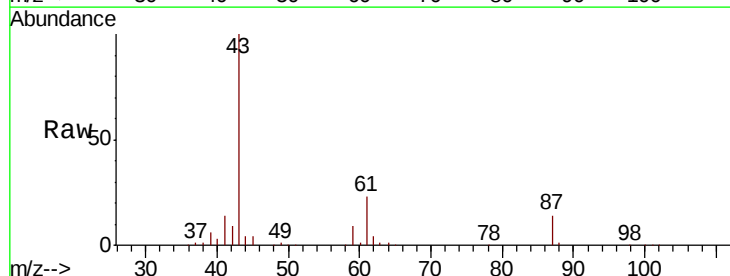
Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

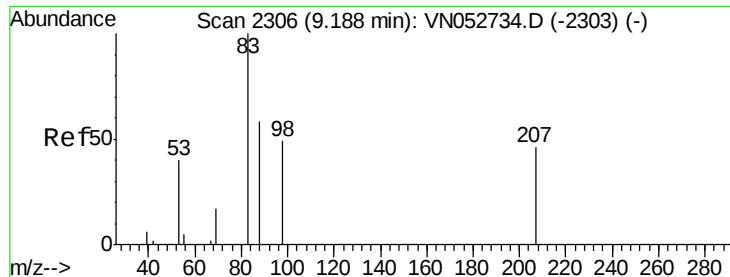
Tot Ion: 43 Resp: 434118
Ion Ratio Lower Upper
43 100
45 1.1 1.0 1.6



#44
Isopropyl Acetate
Concen: 24.209 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 43 Resp: 363168
Ion Ratio Lower Upper
43 100
61 21.0 16.0 24.0

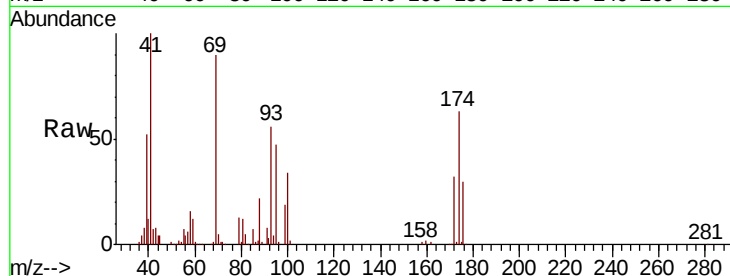




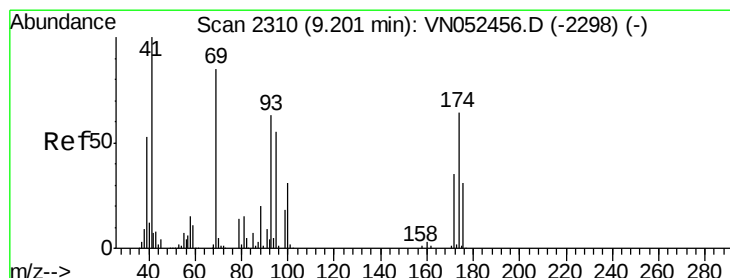
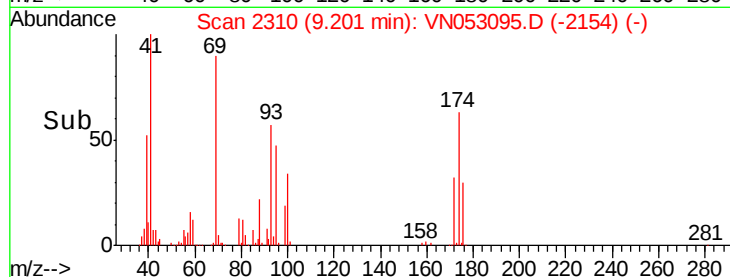
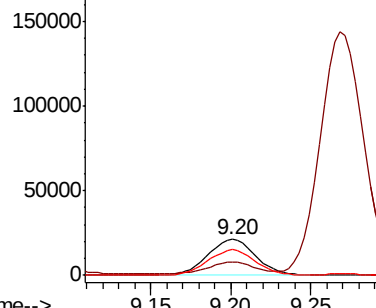
#45
 1,4-Dioxane
 Concen: 530.980 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

Tot Ion: 88 Resp: 43575
 Ion Ratio Lower Upper
 88 100
 43 30.1 29.5 44.3
 58 70.3 61.5 92.3

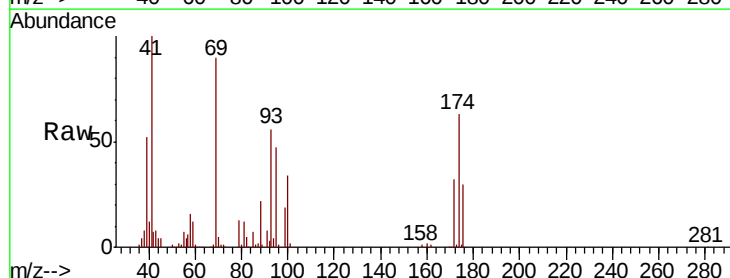


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

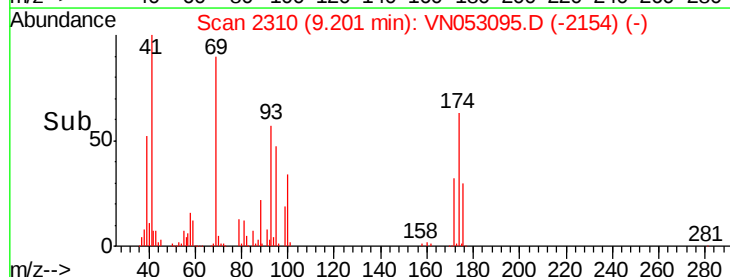
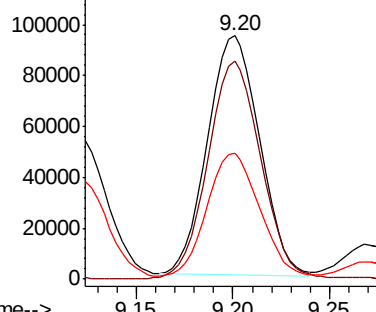


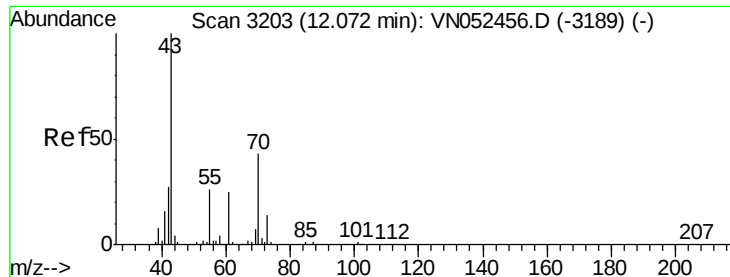
#46
 Methyl methacrylate
 Concen: 22.548 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion: 41 Resp: 175622
 Ion Ratio Lower Upper
 41 100
 69 90.9 42.5 127.6
 39 51.7 26.3 78.9



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 69.00 (68.70 to 69.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0

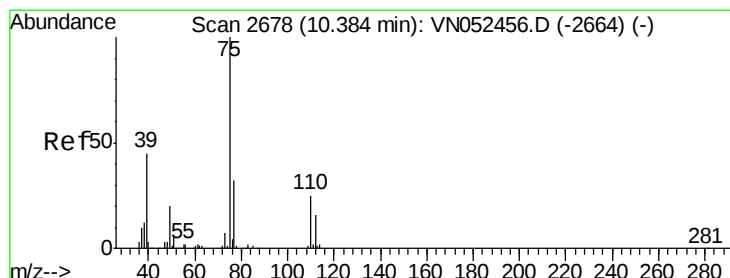
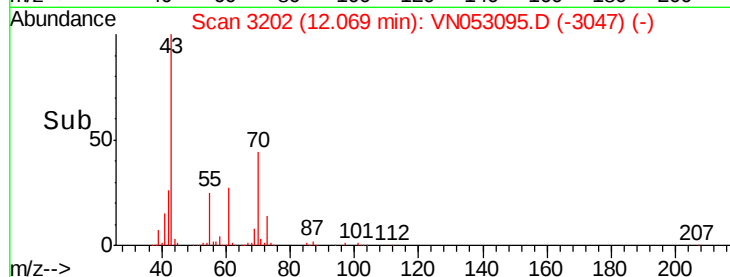
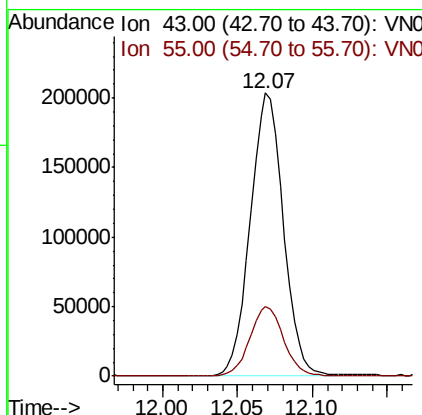
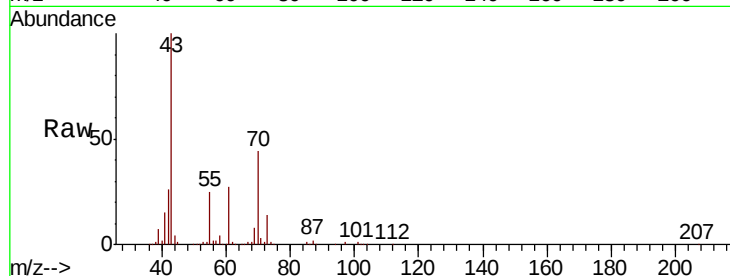




#47
 n-amvl Acetate
 Concen: 25.092 ug/l
 RT: 12.07 min Scan# 3202
 Delta R.T. -0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

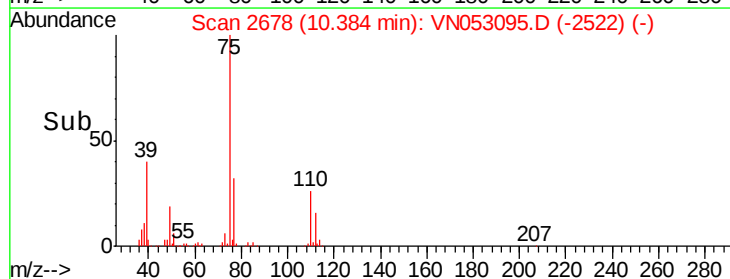
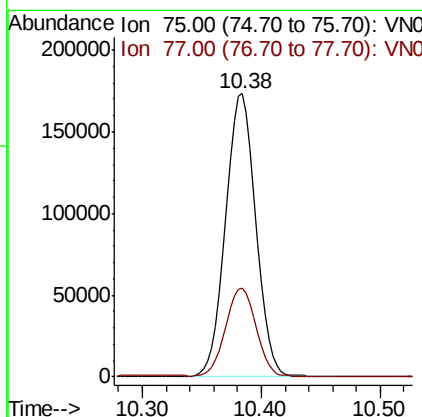
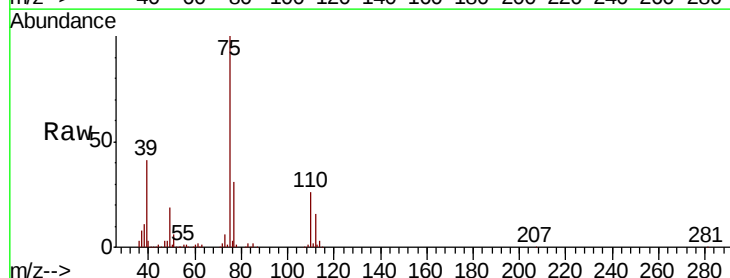
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

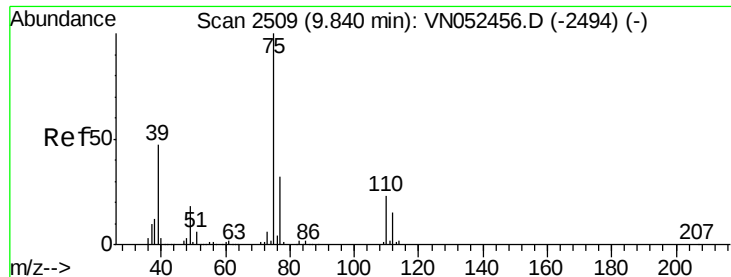
Tot Ion: 43 Resp: 312093
 Ion Ratio Lower Upper
 43 100
 55 25.1 21.1 31.7



#48
 t-1,3-Dichloropropene
 Concen: 21.818 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion: 75 Resp: 305998
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.6 38.4



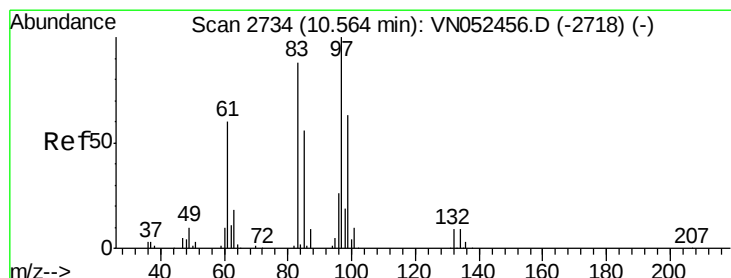
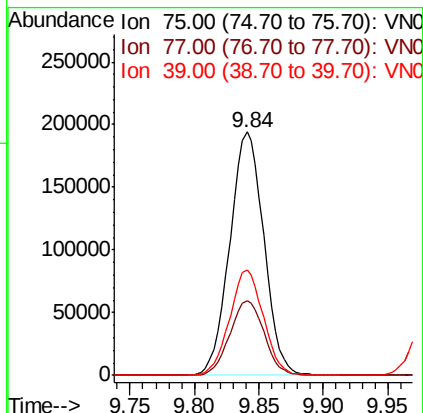
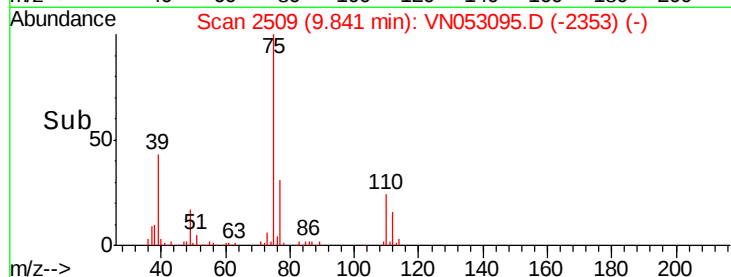
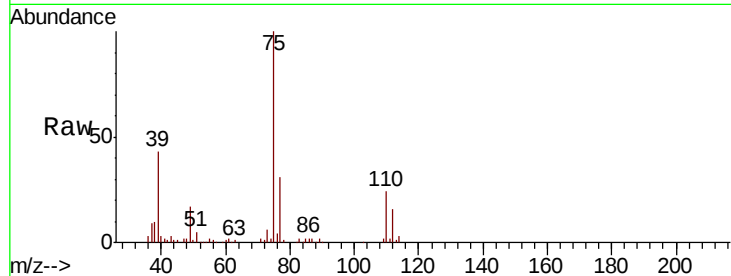


#49

cis-1,3-Dichloropropene
 Concen: 20.866 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

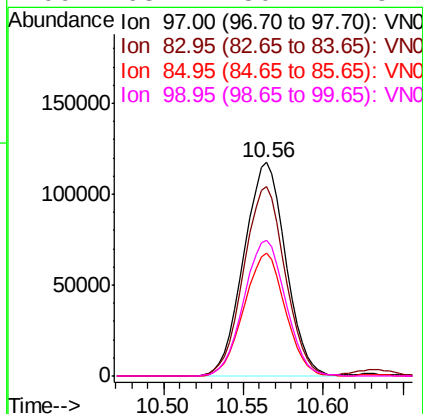
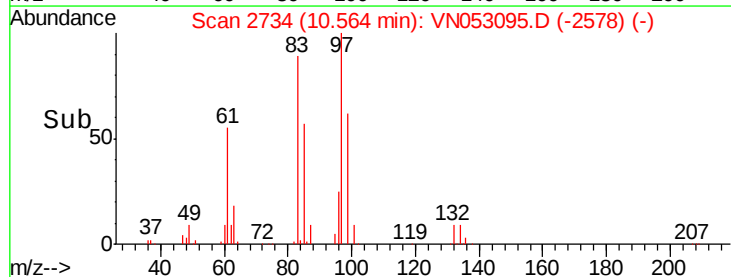
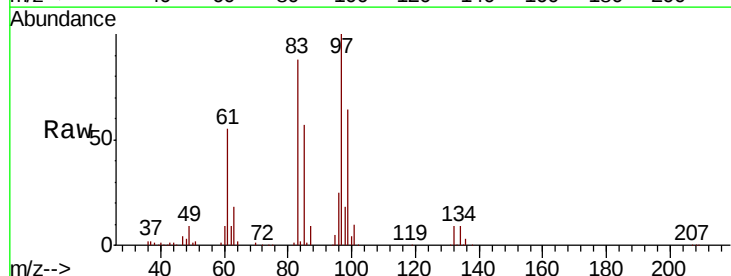
Tot Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.4	38.0
39	43.3	37.3	55.9

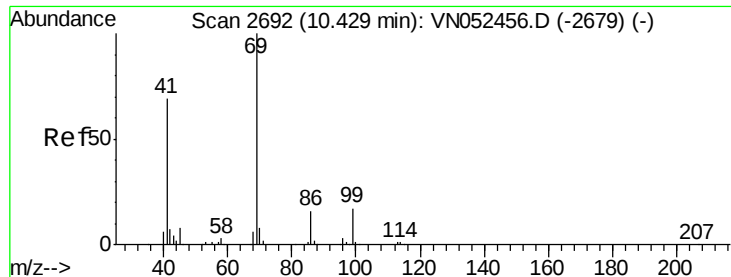


#50

1,1,2-Trichloroethane
 Concen: 22.678 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.4	105.6
85	57.4	45.0	67.6
99	63.7	50.2	75.2





#51

Ethyl methacrylate

Concen: 24.040 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

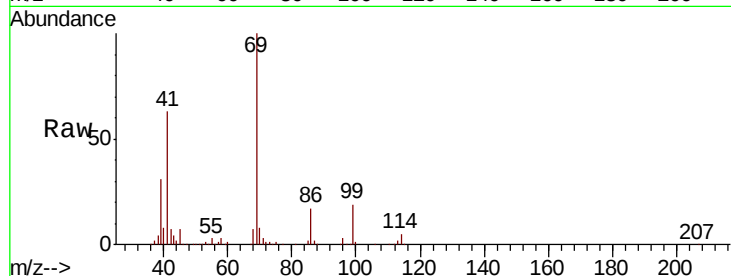
Tot Ion: 69 Resp: 280198

Ion Ratio Lower Upper

69 100

41 62.5 34.4 103.3

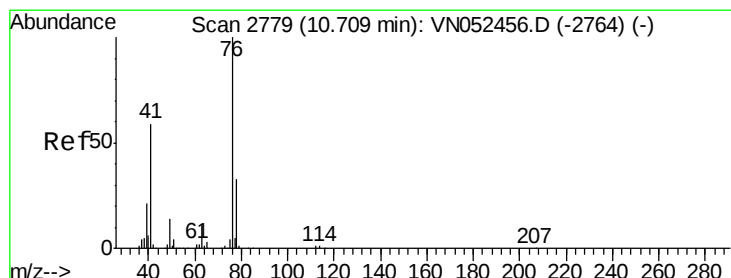
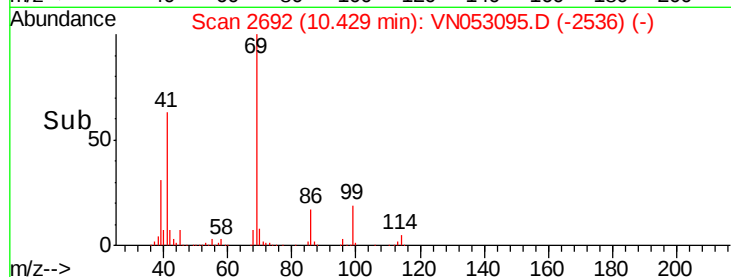
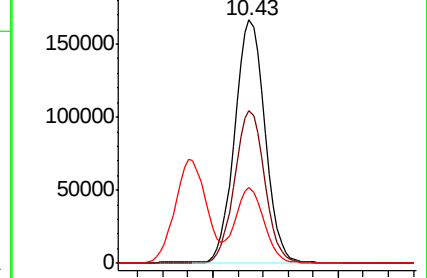
39 30.8 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN053095.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN053095.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN053095.D (-2679) (-)



#52

1,3-Dichloropropane

Concen: 21.667 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053095.D

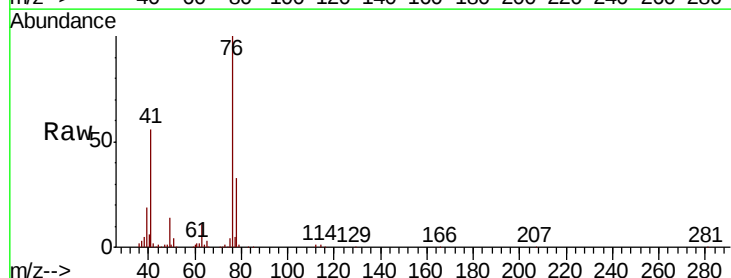
Acq: 21 Dec 2018 10:44

Tgt Ion: 76 Resp: 357907

Ion Ratio Lower Upper

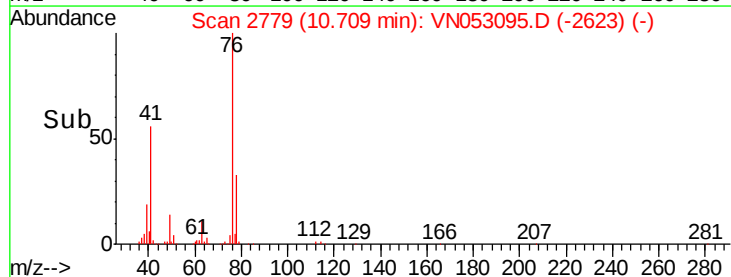
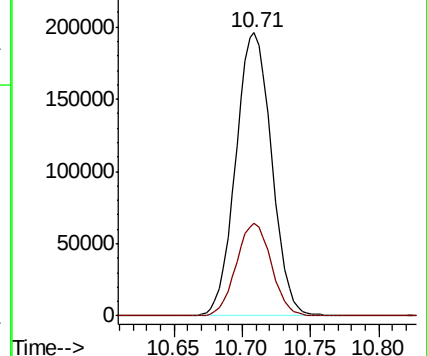
76 100

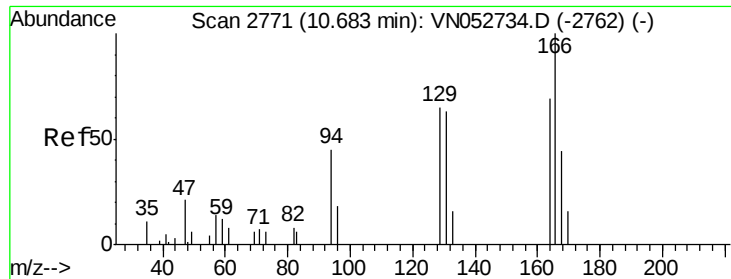
78 32.0 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN053095.D (-2623) (-)

Ion 78.00 (77.70 to 78.70): VN053095.D (-2623) (-)





#53

Dibromochloromethane

Concen: 22.122 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

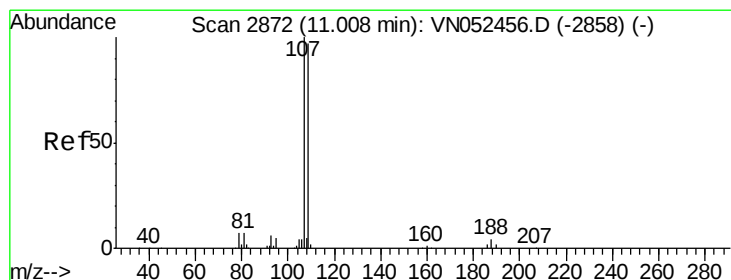
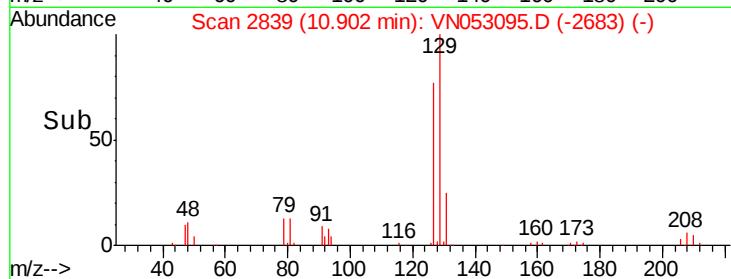
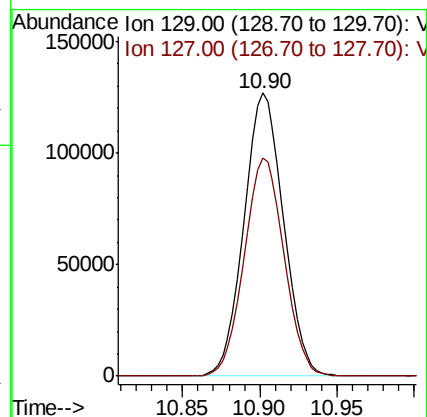
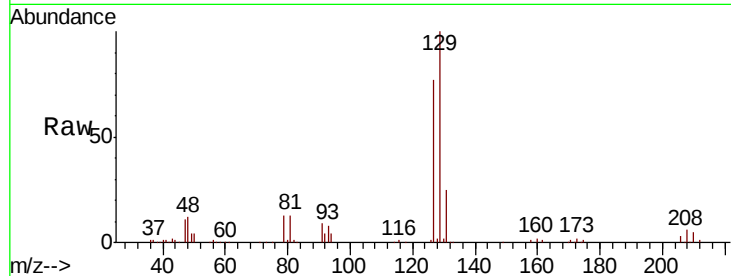
VN1221WBS01

Tot Ion:129 Resp: 226024

Ion Ratio Lower Upper

129 100

127 77.7 37.6 112.8



#54

1,2-Dibromoethane

Concen: 23.088 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053095.D

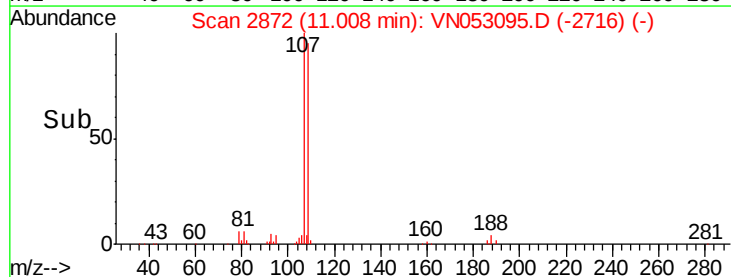
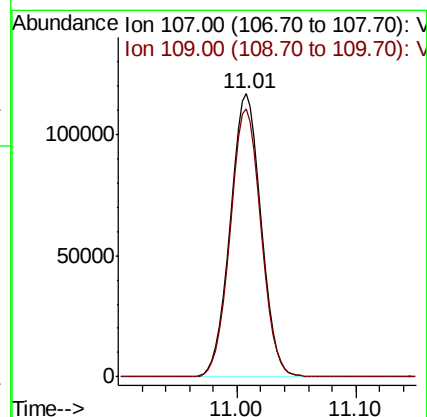
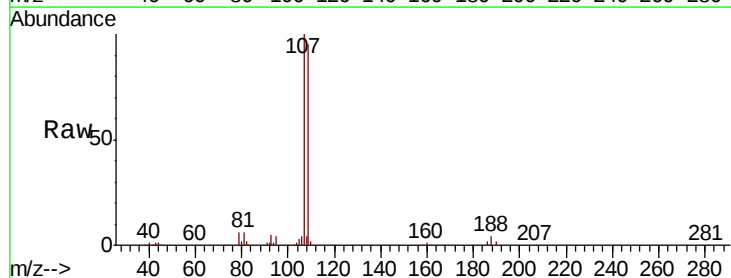
Acq: 21 Dec 2018 10:44

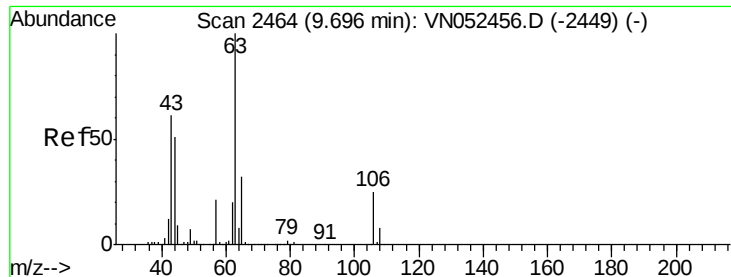
Tgt Ion:107 Resp: 209368

Ion Ratio Lower Upper

107 100

109 94.7 77.1 115.7





#55

2-Chloroethyl vinyl ether

Concen: 115.976 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

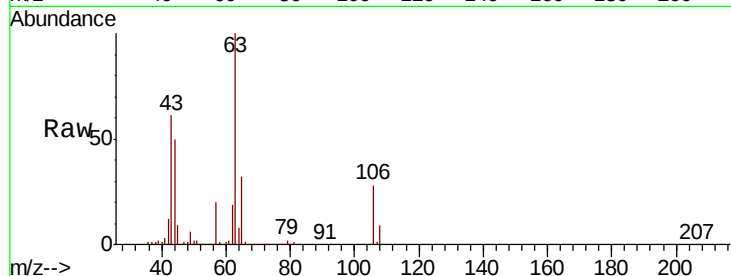
Tot Ion: 63 Resp: 791262

Ion Ratio Lower Upper

63 100

65 31.9 25.4 38.2

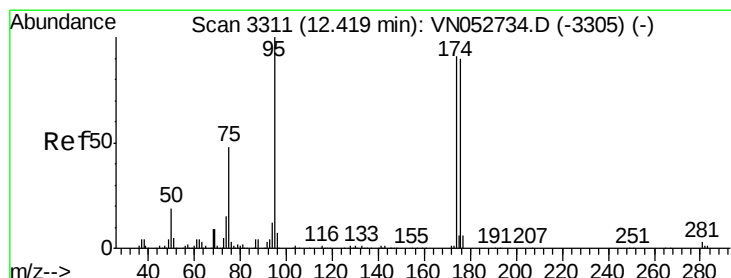
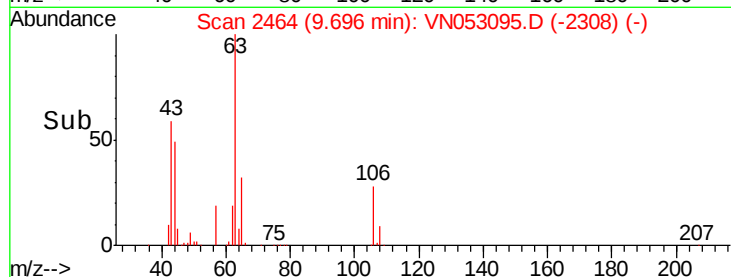
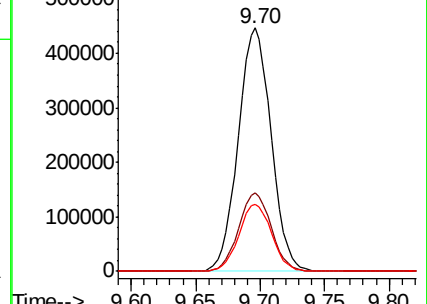
106 27.5 20.4 30.6



Abundance Ion 63.00 (62.70 to 63.70): VN052456.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN052456.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN052456.D (-2449) (-)



#56

Bromoform

Concen: 23.528 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

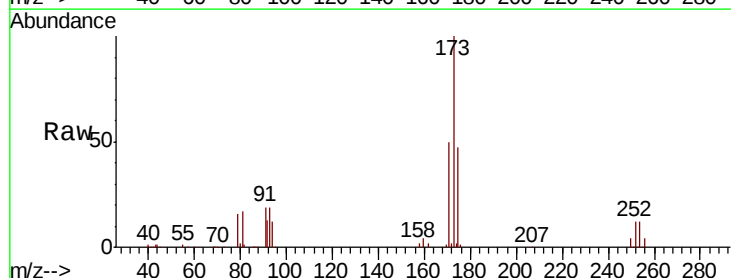
Tgt Ion: 173 Resp: 157131

Ion Ratio Lower Upper

173 100

175 48.2 38.7 58.1

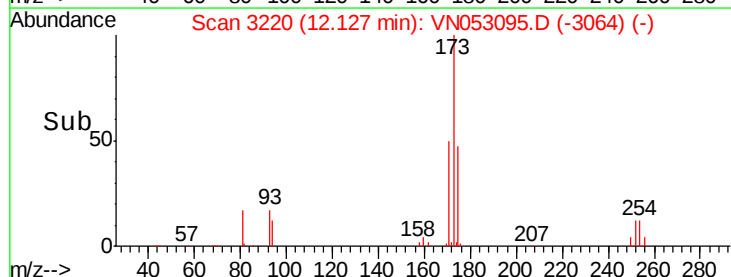
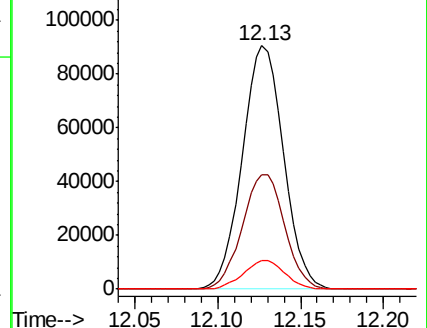
254 11.8 8.4 12.6

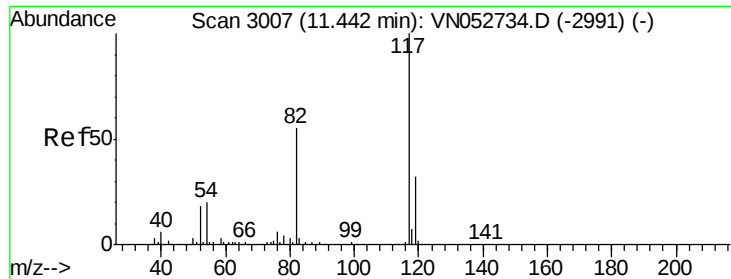


Abundance Ion 173.00 (172.70 to 173.70): VN052734.D (-3305) (-)

Ion 175.00 (174.70 to 175.70): VN052734.D (-3305) (-)

Ion 254.00 (253.70 to 254.70): VN052734.D (-3305) (-)





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

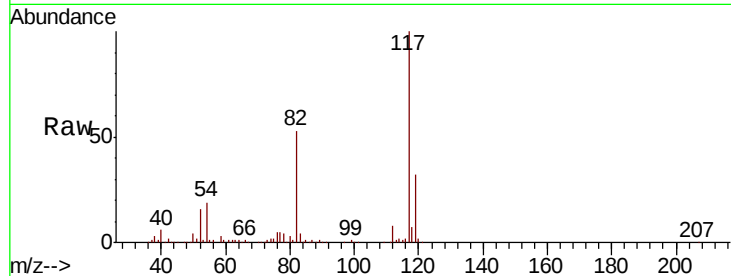
Tot Ion:117 Resp: 876105

Ion Ratio Lower Upper

117 100

82 53.4 44.2 66.2

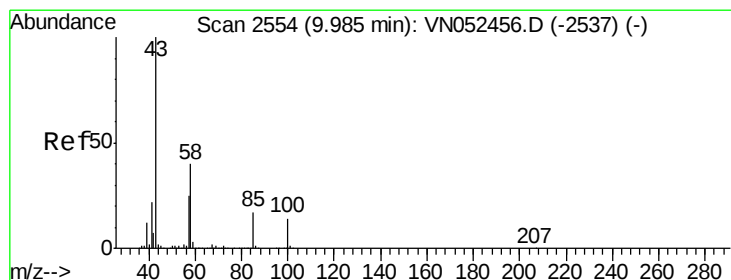
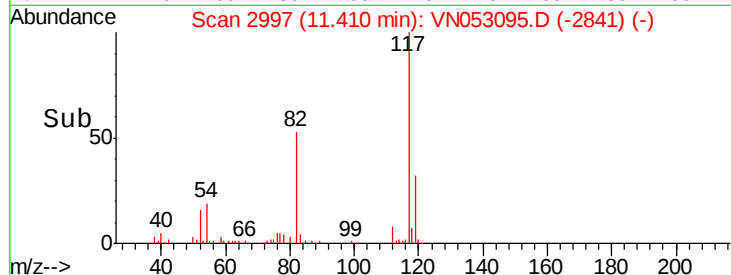
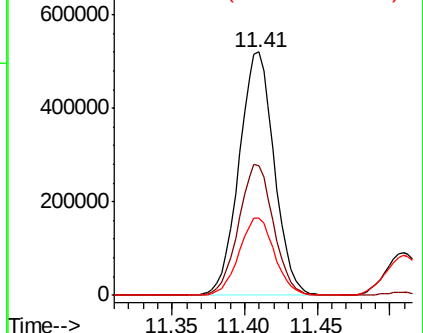
119 32.1 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 118.757 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

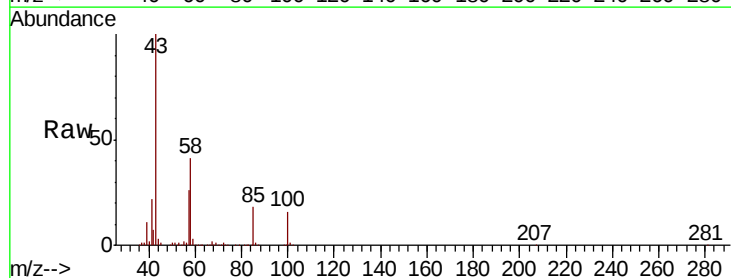
Tgt Ion: 43 Resp: 1008675

Ion Ratio Lower Upper

43 100

58 41.0 31.6 47.4

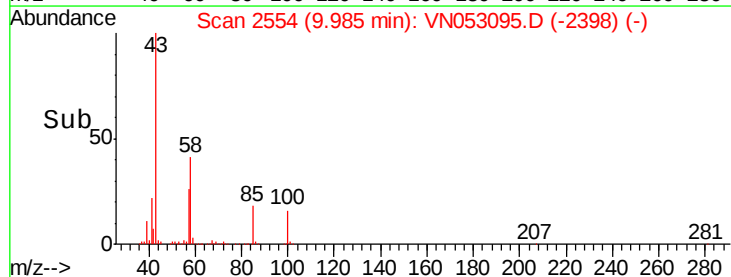
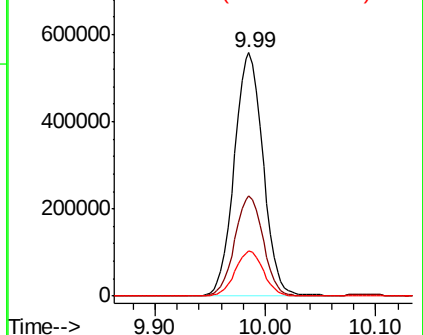
85 18.3 13.3 19.9

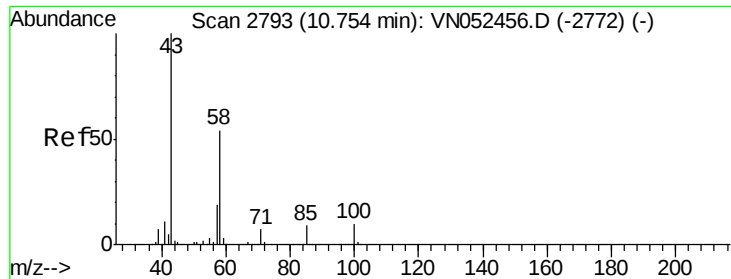


Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

Ion 85.00 (84.70 to 85.70): VN

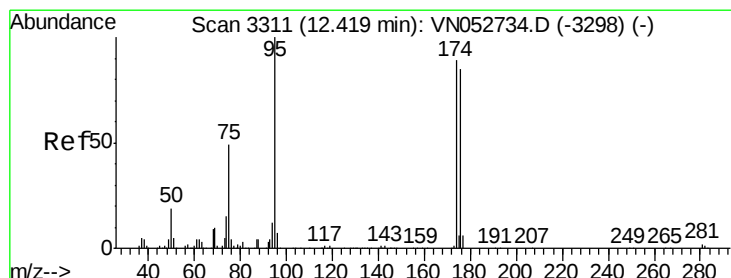
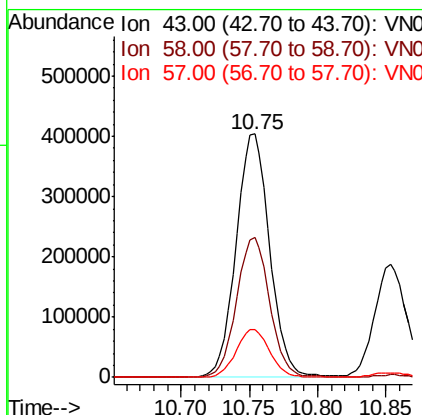
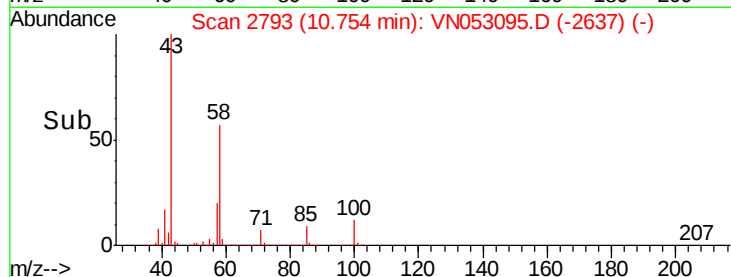
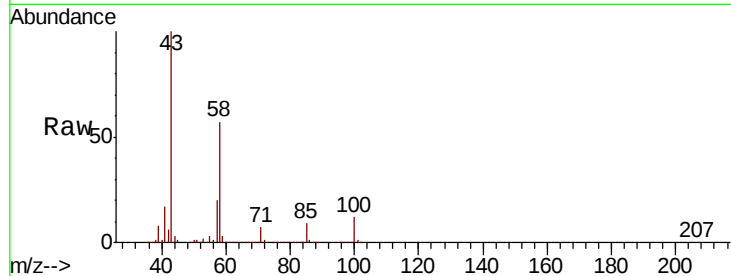




#59
2-Hexanone
Concen: 118.462 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

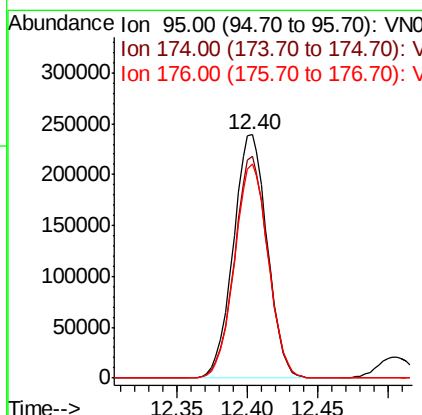
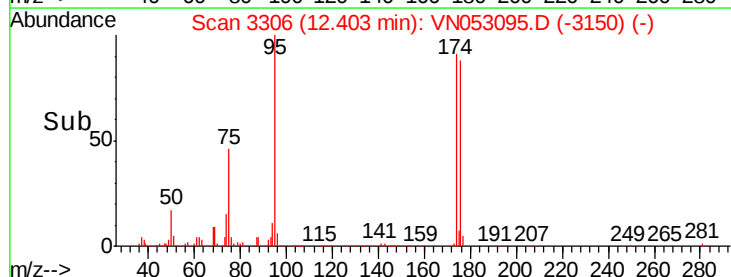
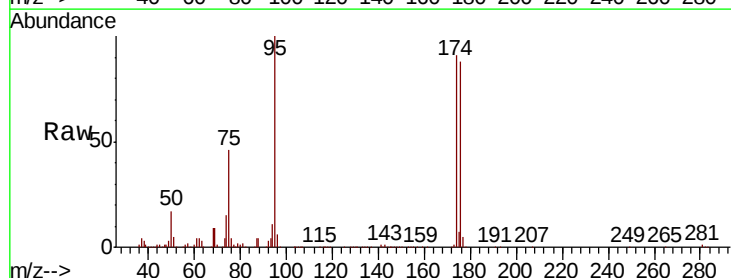
Instrument :
MSVOA_N
ClientSampled :
VN1221WBS01

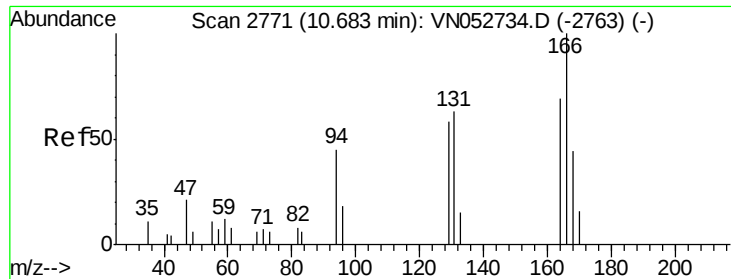
Tot Ion: 43 Resp: 687328
Ion Ratio Lower Upper
43 100
58 57.3 43.2 64.8
57 19.9 14.9 22.3



#60
4-Bromofluorobenzene
Concen: 118.462 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 95 Resp: 403731
Ion Ratio Lower Upper
95 100
174 89.5 67.9 101.9
176 87.4 66.4 99.6

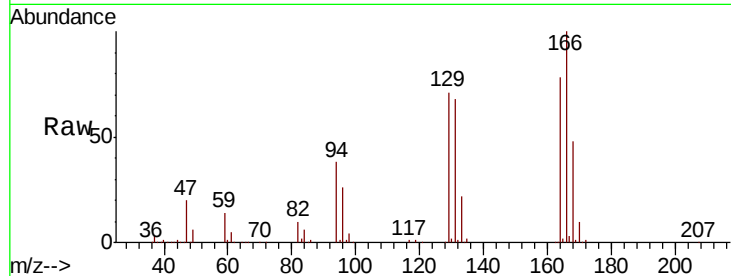




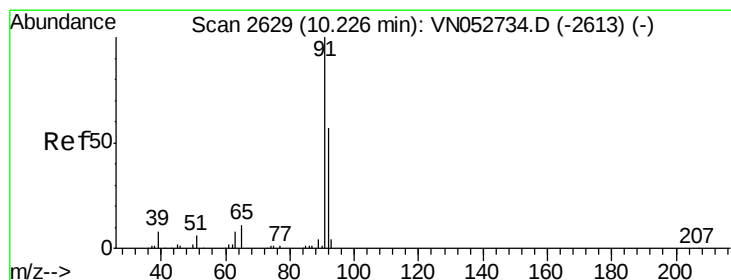
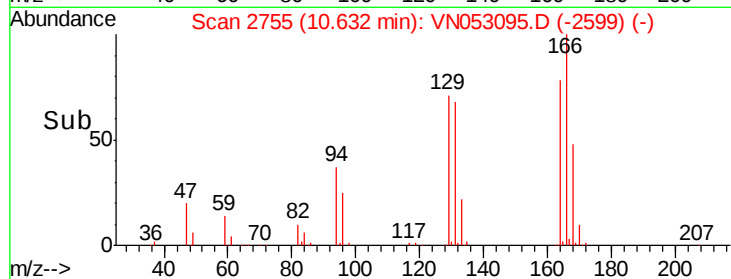
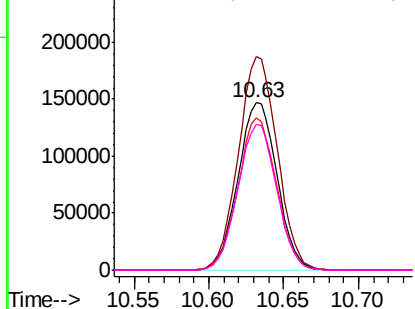
#61
Tetrachloroethene
Concen: 24.717 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

Tot Ion:164 Resp: 266708
Ion Ratio Lower Upper
164 100
166 127.8 104.6 157.0
129 91.1 75.3 112.9
131 87.2 74.3 111.5

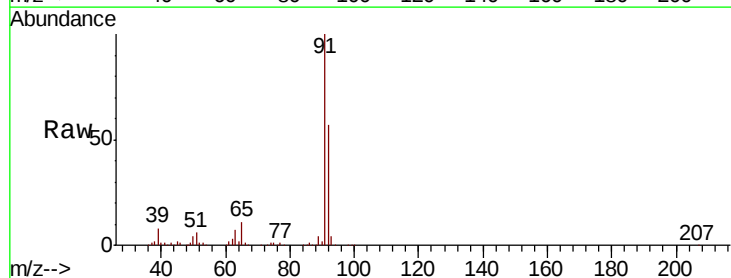


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

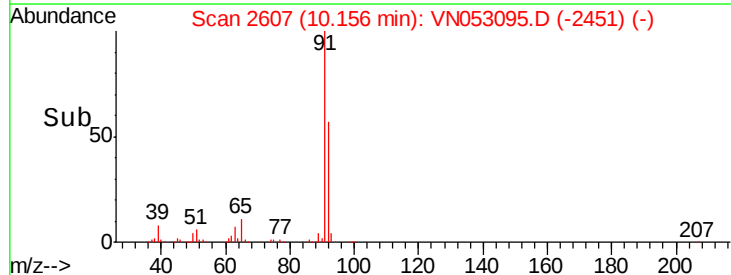
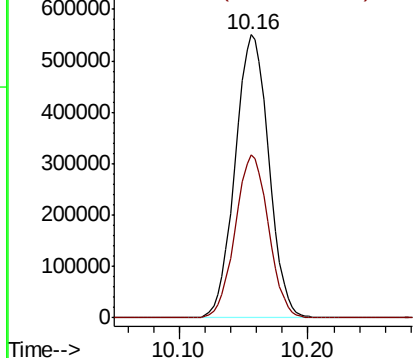


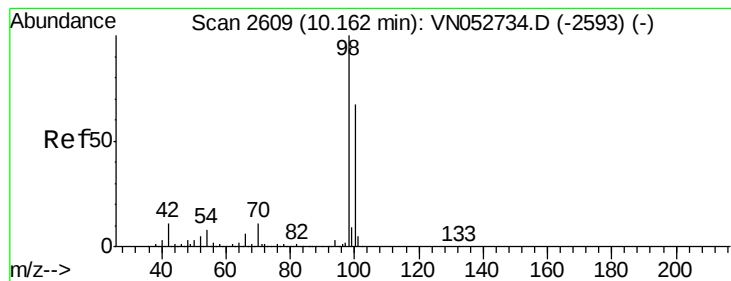
#62
Toluene
Concen: 20.686 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion: 91 Resp: 999059
Ion Ratio Lower Upper
91 100
92 57.1 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 20.686 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

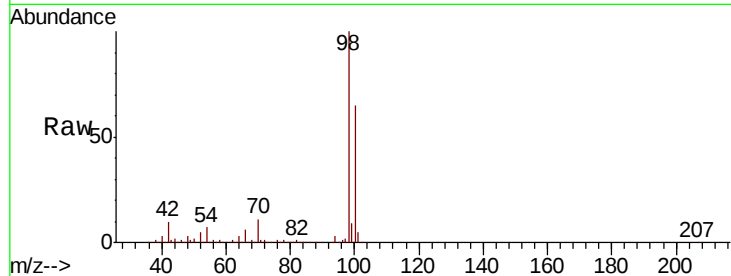
VN1221WBS01

Tot Ion: 98 Resp: 1159988

Ion Ratio Lower Upper

98 100

100 64.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN052734.D (-2593) (-)

Ion 100.00 (99.70 to 100.70): VN052734.D (-2593) (-)

10.09

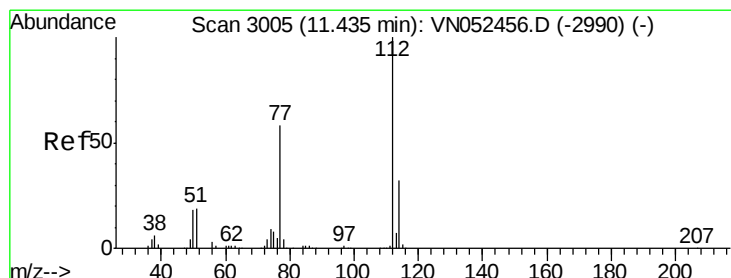
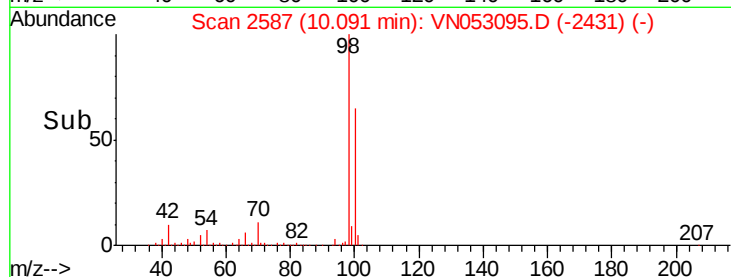
600000

400000

200000

0

Time-->



#64

Chlorobenzene

Concen: 21.448 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN053095.D

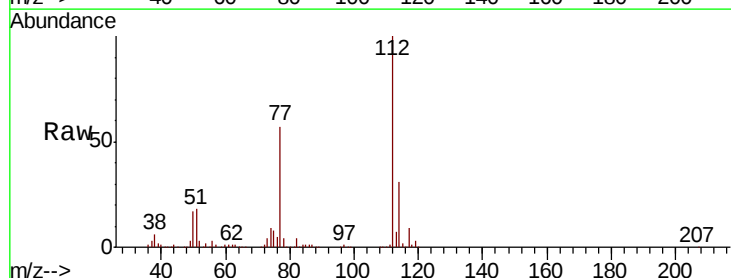
Acq: 21 Dec 2018 10:44

Tgt Ion: 112 Resp: 632265

Ion Ratio Lower Upper

112 100

114 31.3 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN052456.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN052456.D (-2990) (-)

11.44

400000

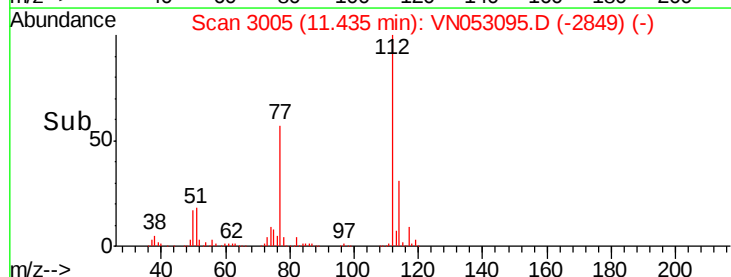
300000

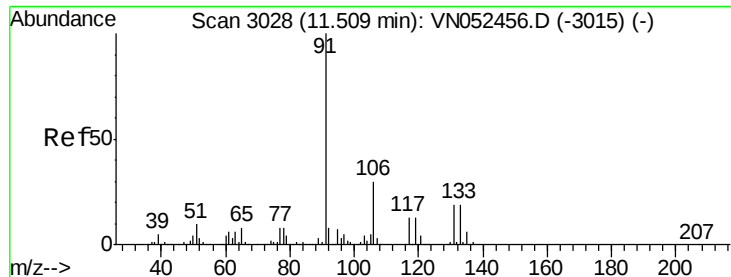
200000

100000

0

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 21.872 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

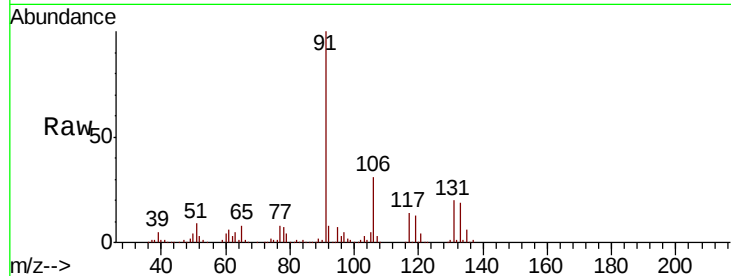
Tot Ion:131 Resp: 223807

Ion Ratio Lower Upper

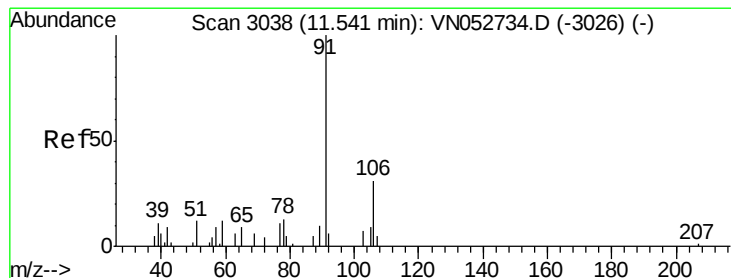
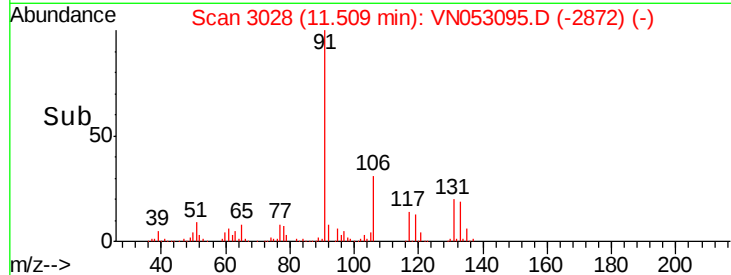
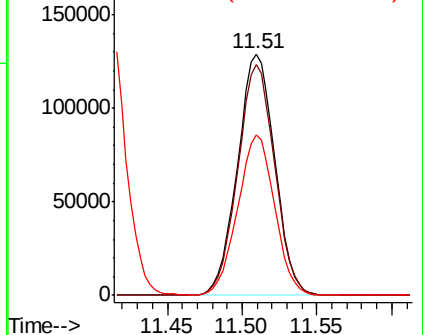
131 100

133 95.0 0.0 193.4

119 65.9 0.0 133.0



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 20.967 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053095.D

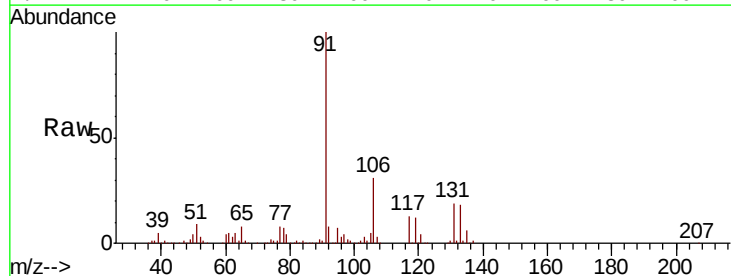
Acq: 21 Dec 2018 10:44

Tgt Ion: 91 Resp: 1091392

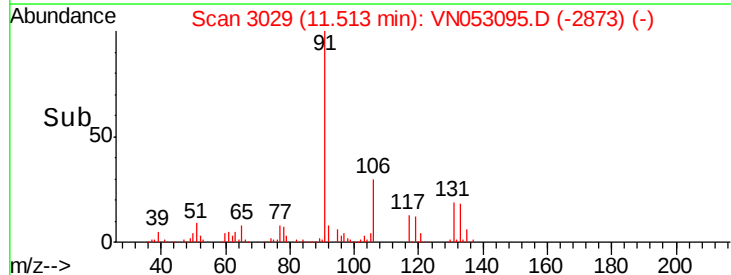
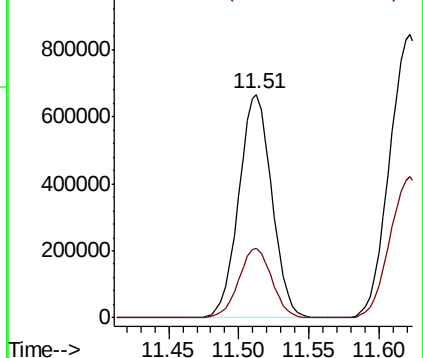
Ion Ratio Lower Upper

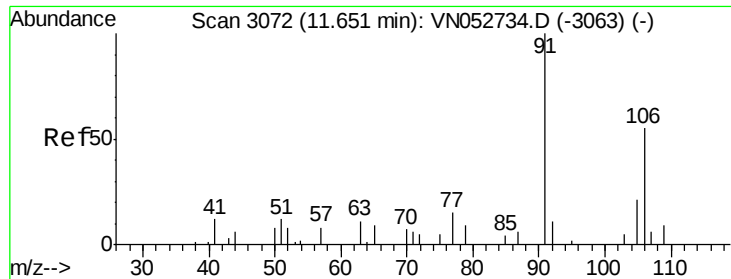
91 100

106 31.0 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V

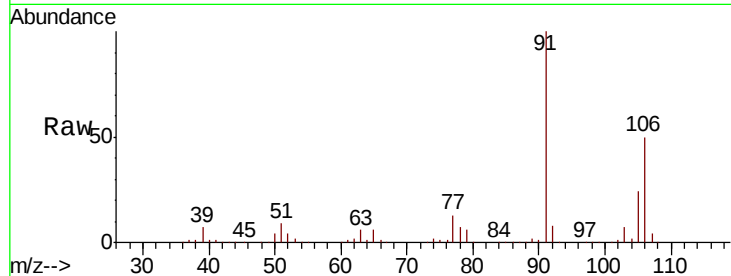




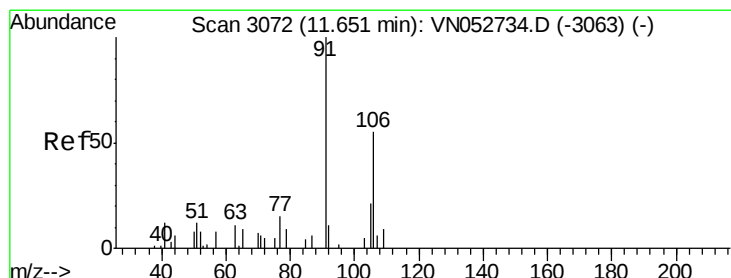
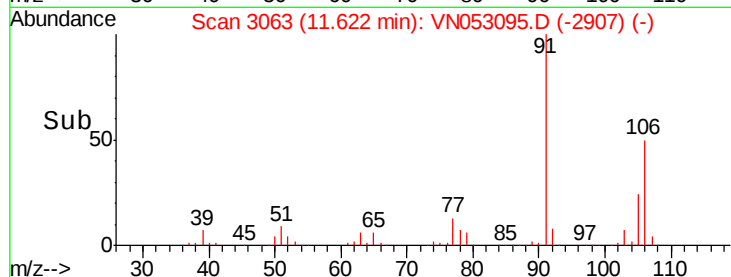
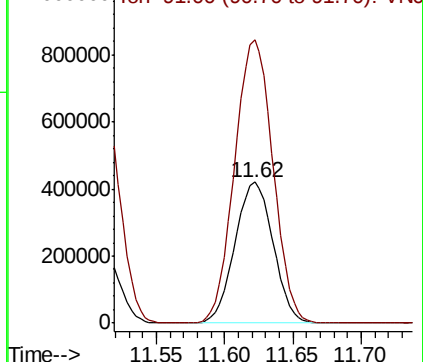
#67
m/p-Xylenes
Concen: 42.205 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Instrument :
MSVOA_N
ClientSampleId :
VN1221WBS01

Tot Ion:106 Resp: 818468
Ion Ratio Lower Upper
106 100
91 201.4 163.9 245.9

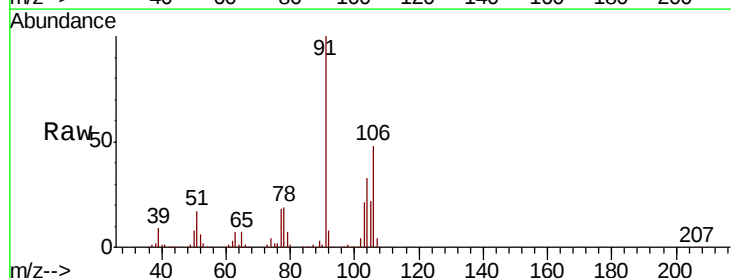


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

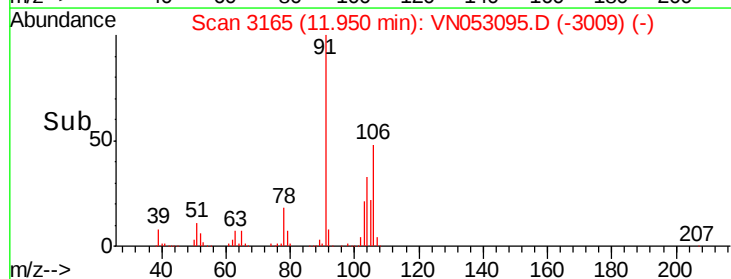
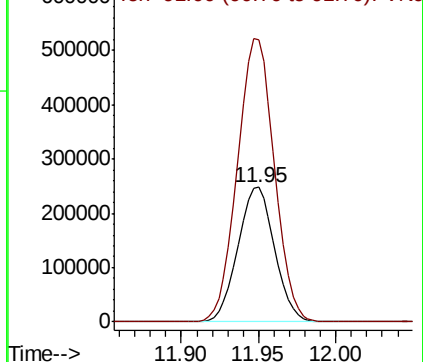


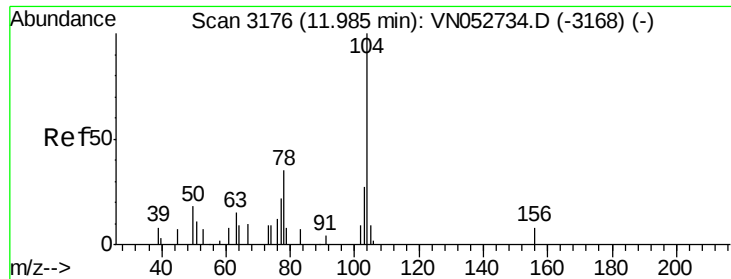
#68
o-Xylene
Concen: 21.726 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion:106 Resp: 408929
Ion Ratio Lower Upper
106 100
91 211.7 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

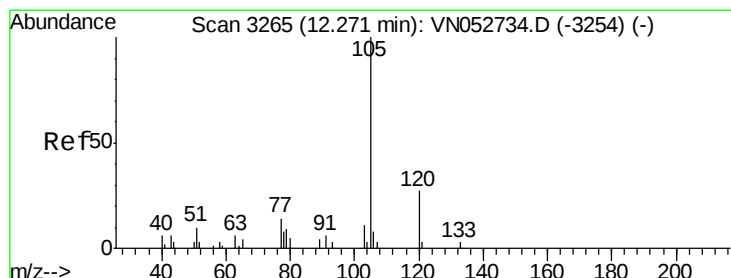
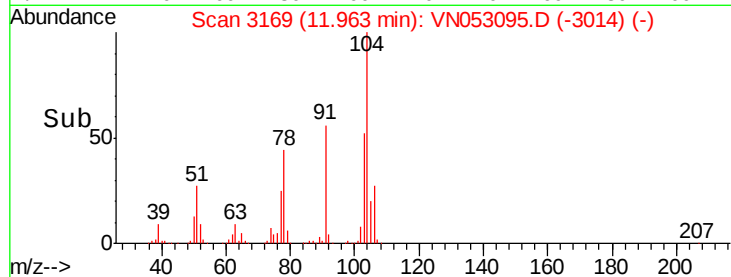
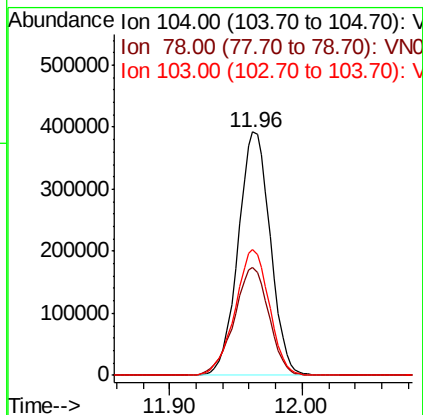
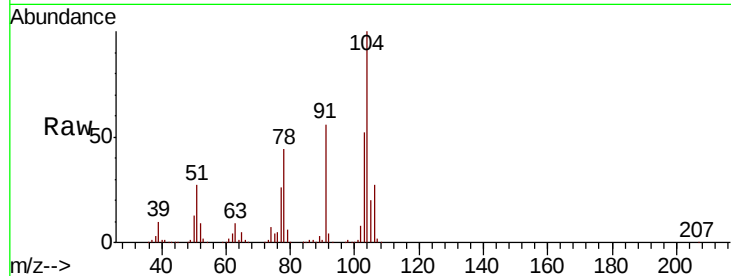




#69
Stvrene
Concen: 21.720 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

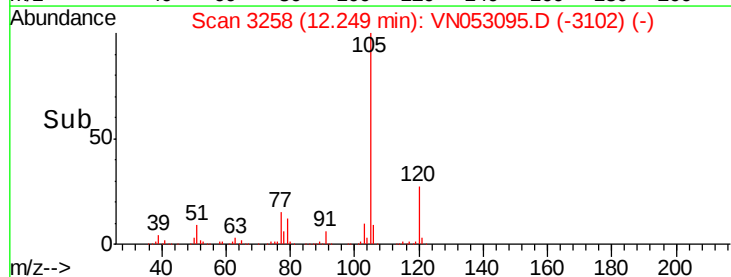
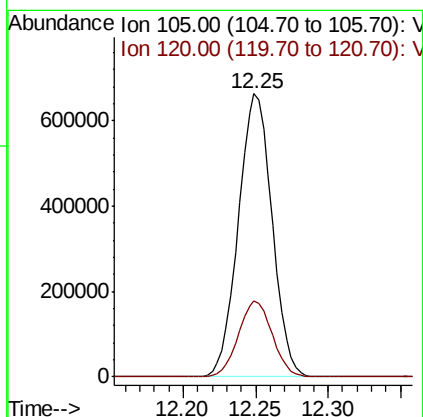
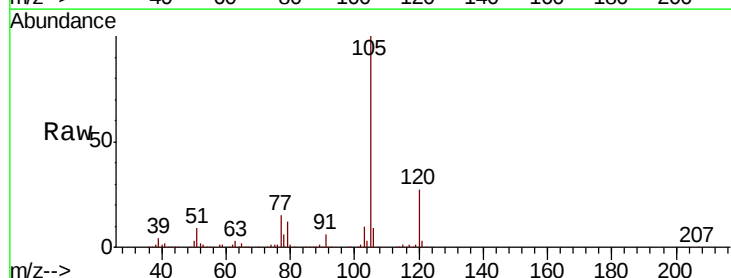
Instrument :
MSVOA_N
ClientSampled :
VN1221WBS01

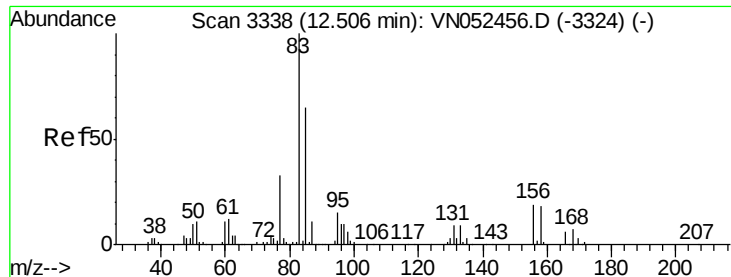
Tot Ion:104 Resp: 659871
Ion Ratio Lower Upper
104 100
78 48.0 39.3 58.9
103 55.0 44.6 66.8



#70
Isopropylbenzene
Concen: 21.382 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053095.D
Acq: 21 Dec 2018 10:44

Tgt Ion:105 Resp: 1070822
Ion Ratio Lower Upper
105 100
120 26.9 18.6 34.6

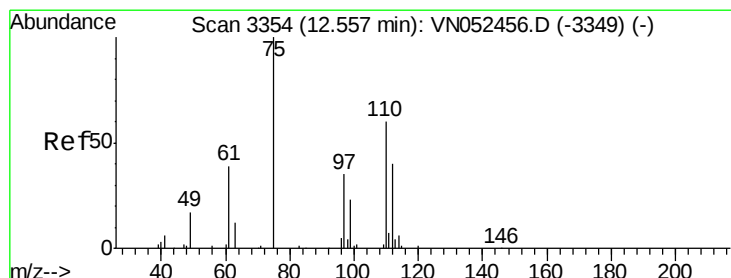
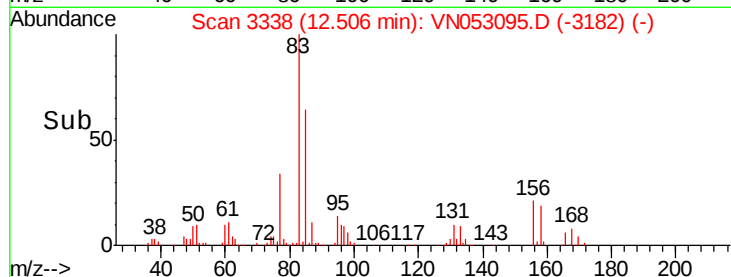
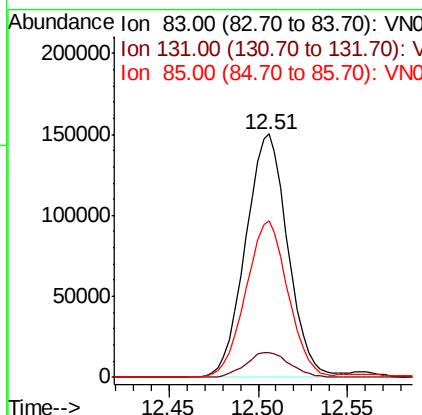
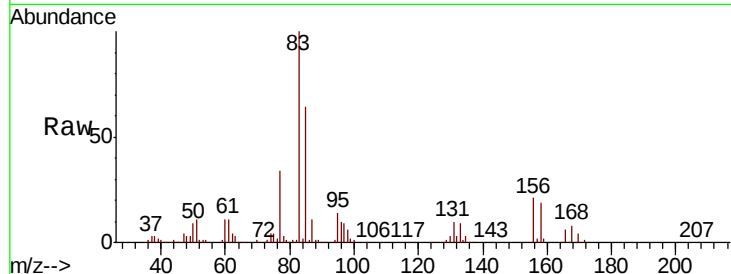




#71
 1,1,2,2-Tetrachloroethane
 Concen: 22.864 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

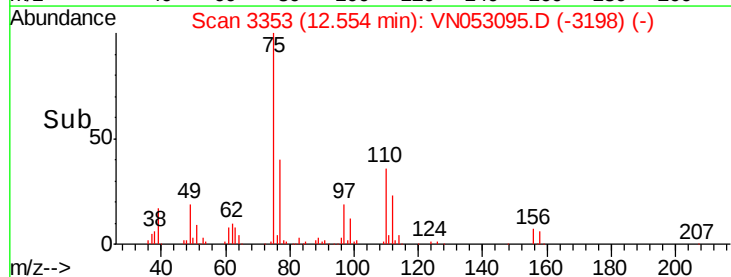
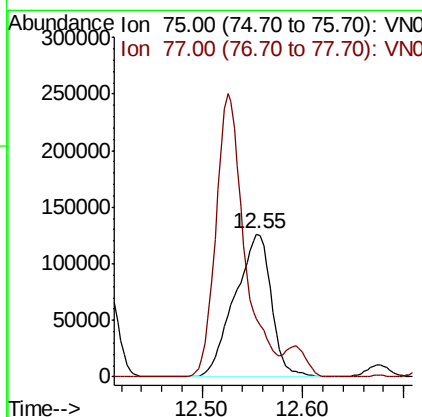
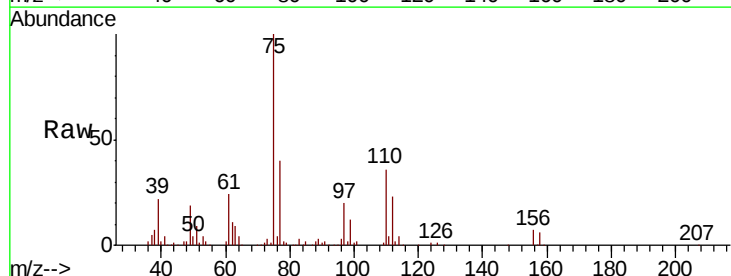
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

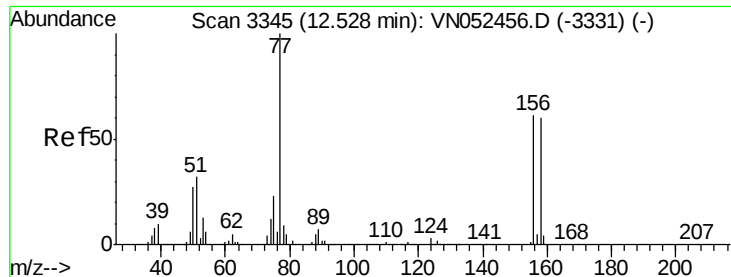
Tot Ion	83	Resp	249077
Ion Ratio	Lower	Upper	
83	100		
131	10.8	4.9	14.6
85	64.3	32.2	96.6



#72
 1,2,3-Trichloropropane
 Concen: 33.847 ug/l
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion	75	Resp	316530
Ion Ratio	Lower	Upper	
75	100		
77	156.3	0.0	514.8





#73

Bromobenzene

Concen: 22.620 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

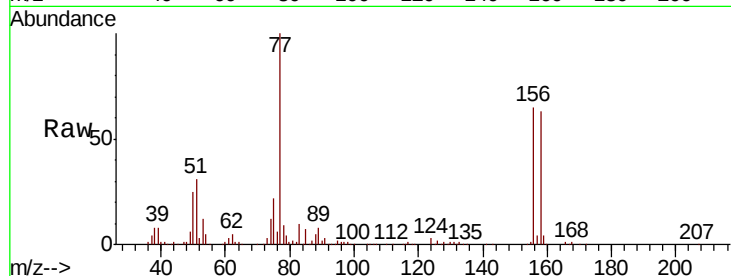
Tot Ion:156 Resp: 273986

Ion Ratio Lower Upper

156 100

77 180.6 0.0 382.6

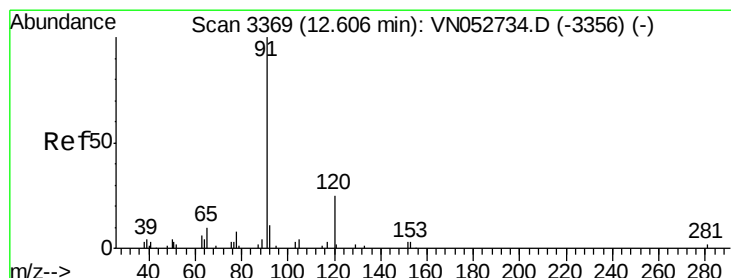
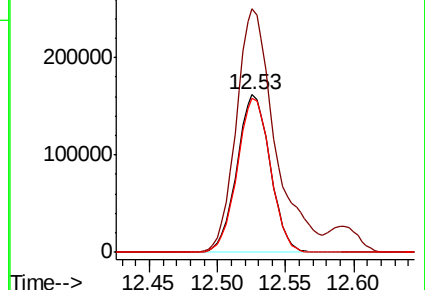
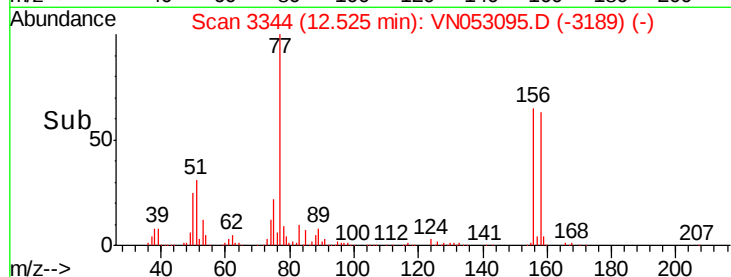
158 97.5 0.0 196.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.348 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053095.D

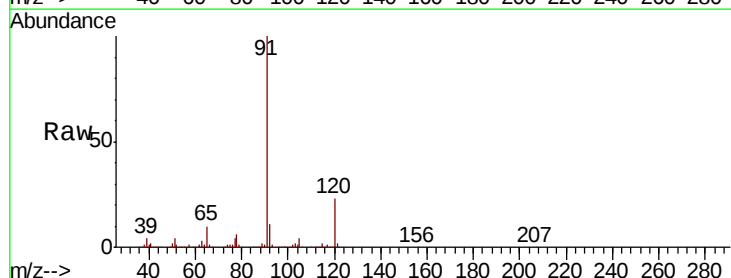
Acq: 21 Dec 2018 10:44

Tgt Ion: 91 Resp: 1187337

Ion Ratio Lower Upper

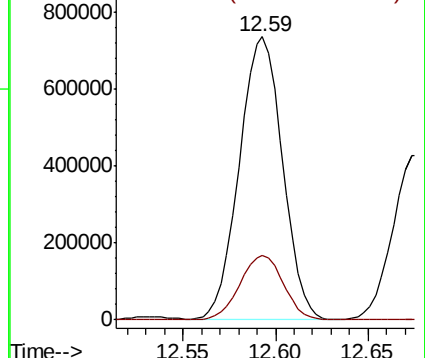
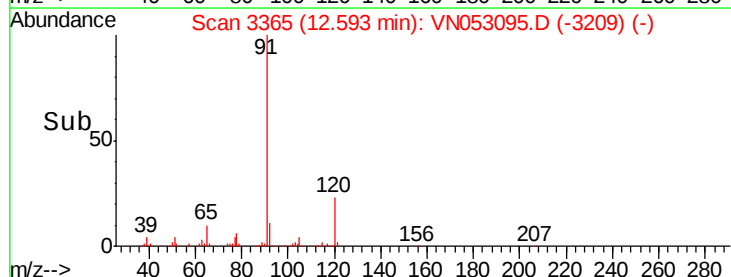
91 100

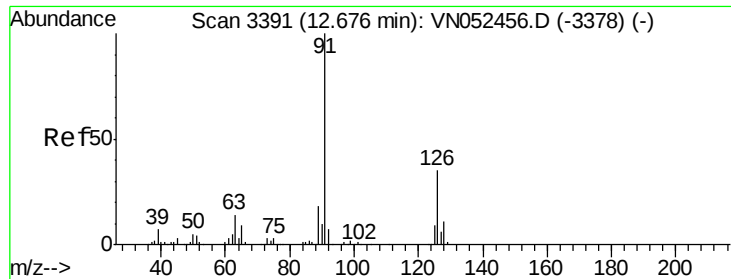
120 23.0 0.0 44.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 21.074 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

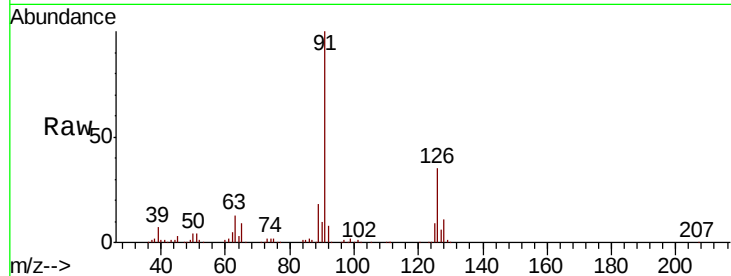
VN1221WBS01

Tot Ion: 91 Resp: 713784

Ion Ratio Lower Upper

91 100

126 34.7 0.0 68.4



Abundance Ion 91.00 (90.70 to 91.70): VN052456.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN052456.D (-3378) (-)

800000

600000

400000

200000

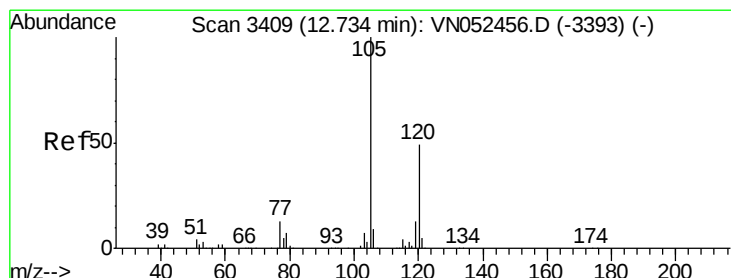
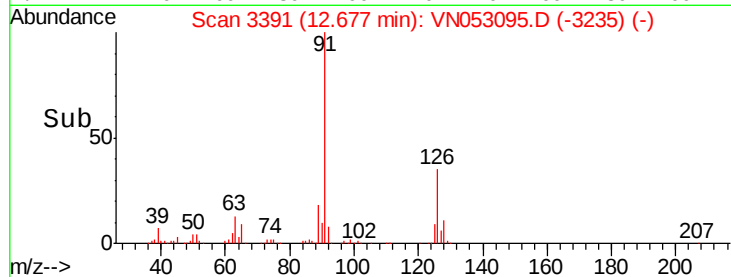
0

12.68

12.65

12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 20.768 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053095.D

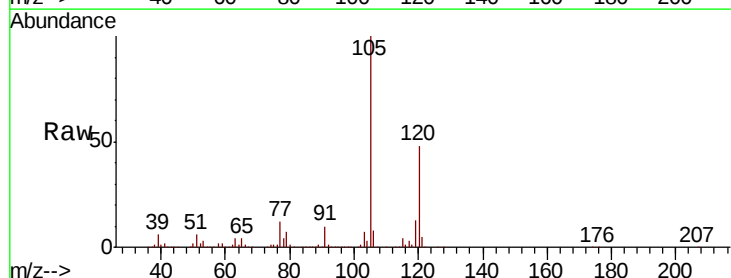
Acq: 21 Dec 2018 10:44

Tgt Ion: 105 Resp: 840086

Ion Ratio Lower Upper

105 100

120 48.9 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN052456.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN052456.D (-3393) (-)

600000

500000

400000

300000

200000

100000

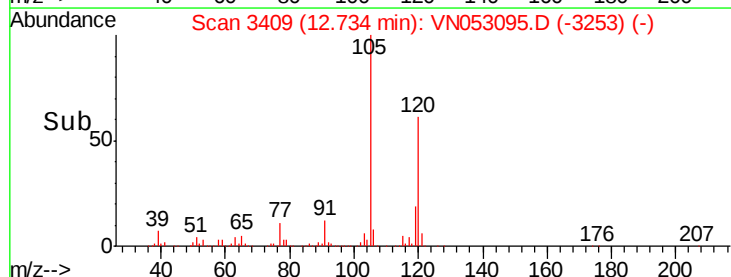
0

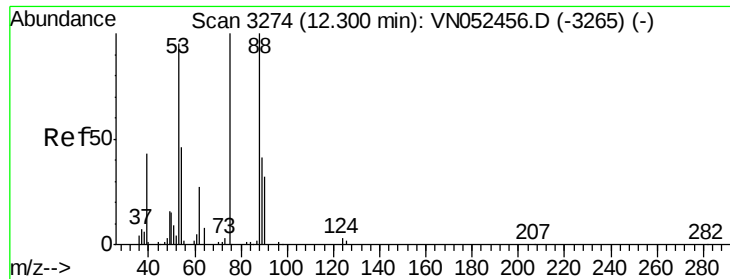
12.73

12.70

12.80

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 23.229 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

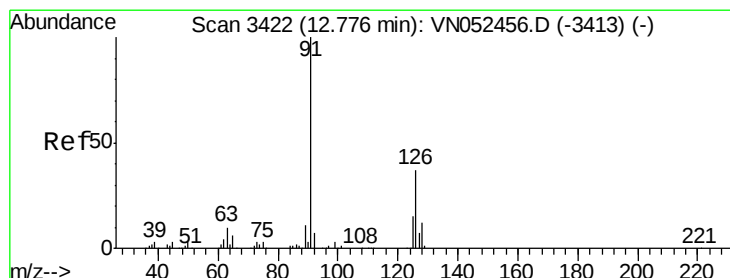
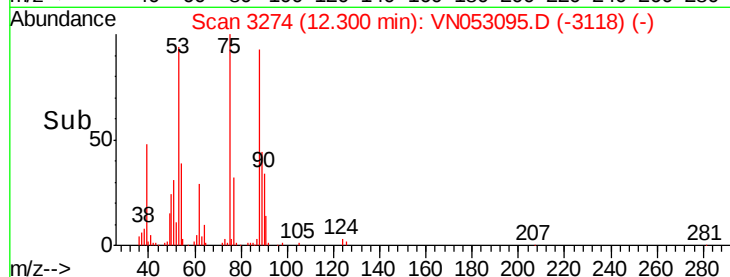
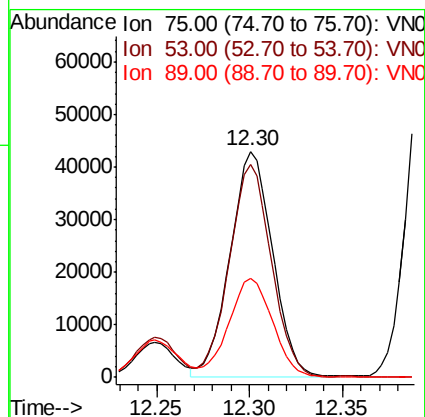
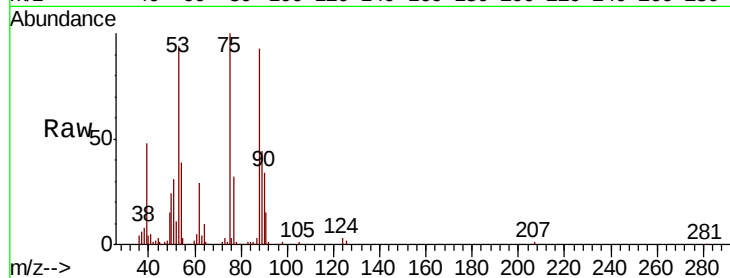
Tot Ion: 75 Resp: 68623

Ion Ratio Lower Upper

75 100

53 94.2 48.5 145.6

89 44.4 21.7 65.1



#78

4-Chlorotoluene

Concen: 20.975 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053095.D

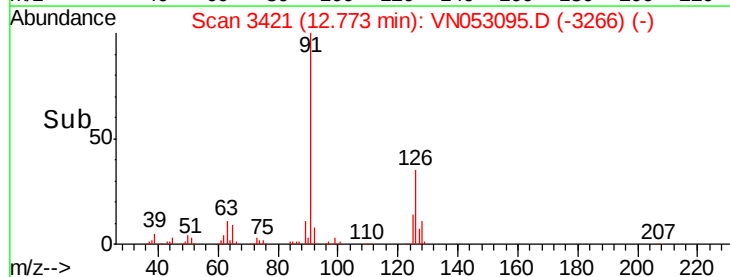
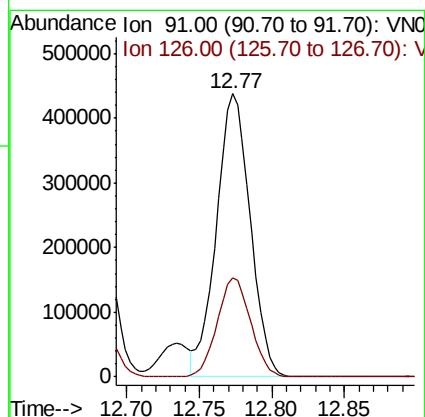
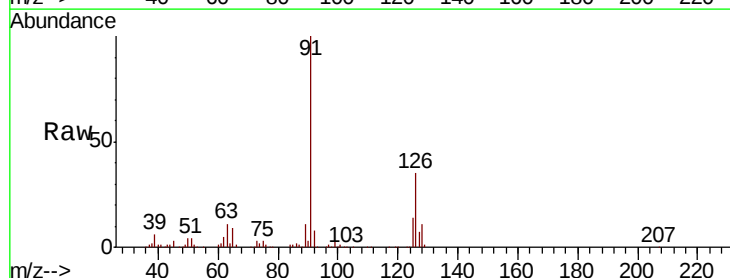
Acq: 21 Dec 2018 10:44

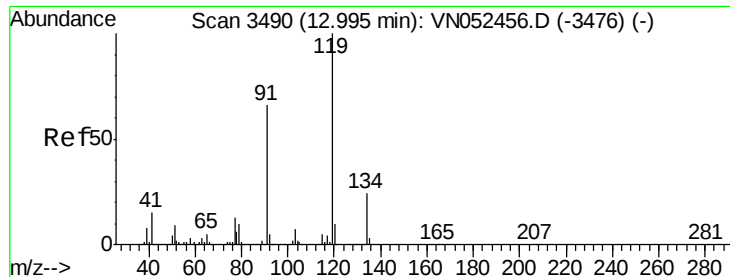
Tgt Ion: 91 Resp: 709448

Ion Ratio Lower Upper

91 100

126 34.7 0.0 68.2





#79

tert-butylbenzene

Concen: 21.401 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

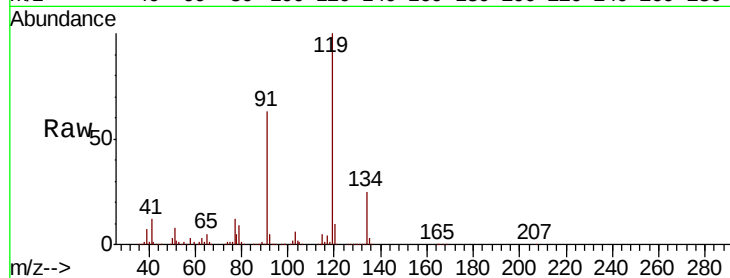
Tot Ion:119 Resp: 753917

Ion Ratio Lower Upper

119 100

91 62.8 0.0 129.8

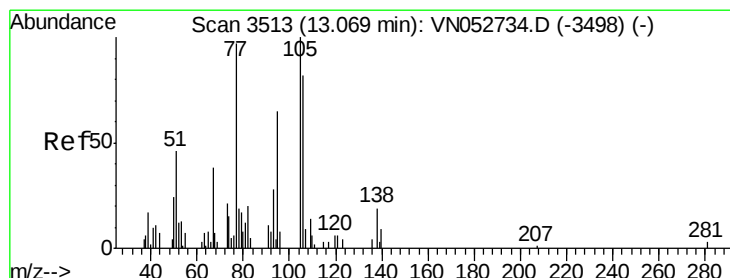
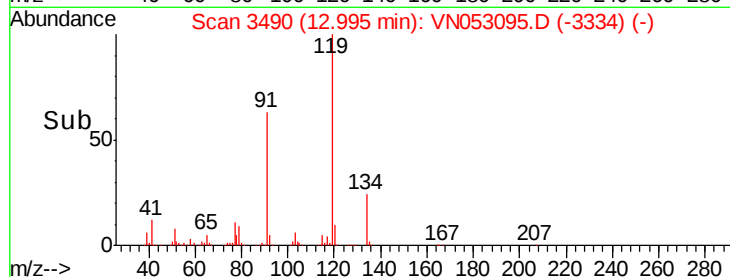
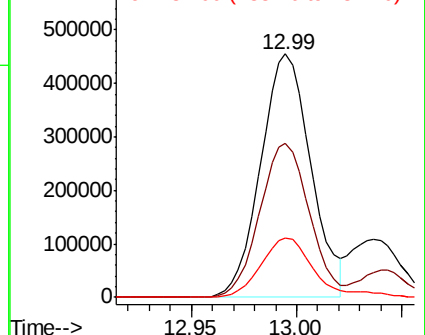
134 25.8 0.0 52.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 20.690 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN053095.D

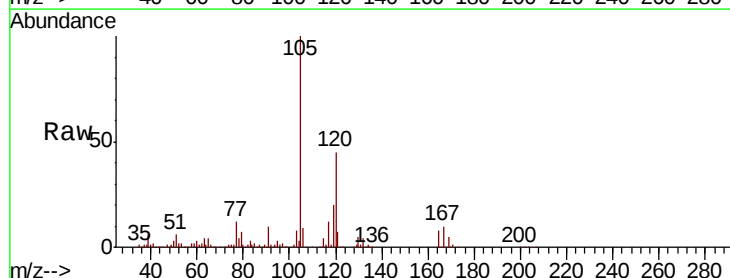
Acq: 21 Dec 2018 10:44

Tgt Ion:105 Resp: 837457

Ion Ratio Lower Upper

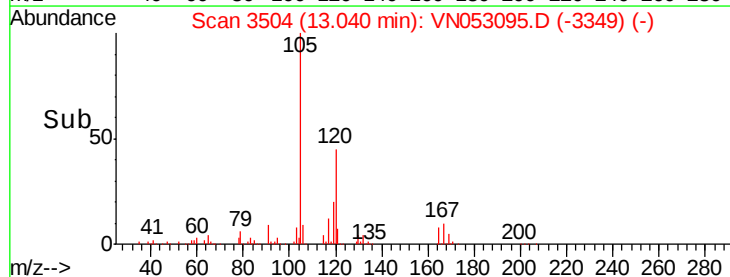
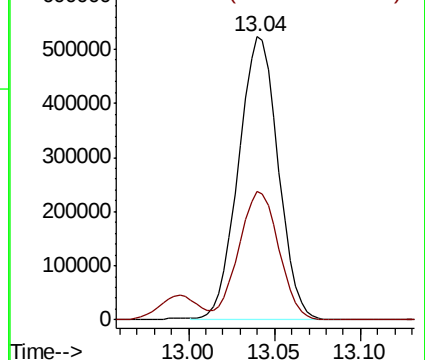
105 100

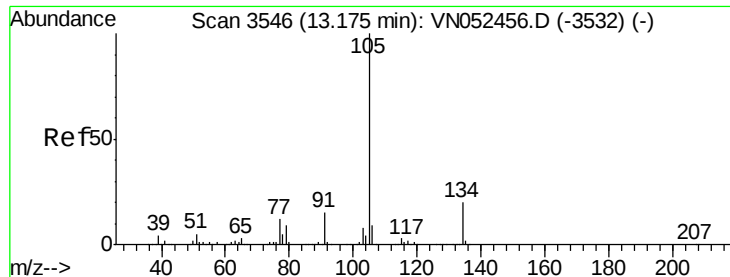
120 46.1 0.0 91.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 19.873 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

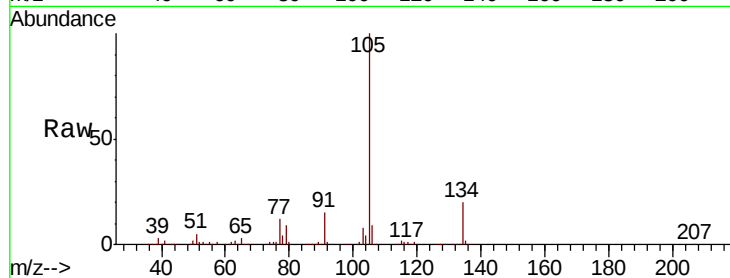
VN1221WBS01

Tot Ion:105 Resp: 975101

Ion Ratio Lower Upper

105 100

134 20.3 0.0 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

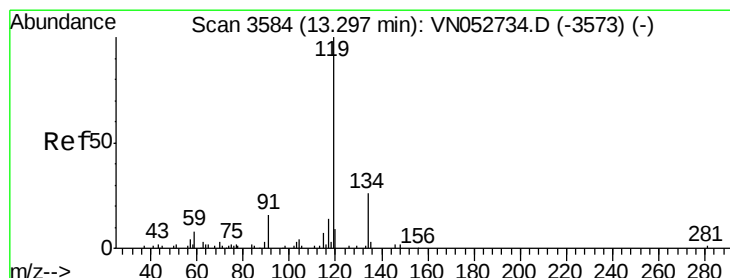
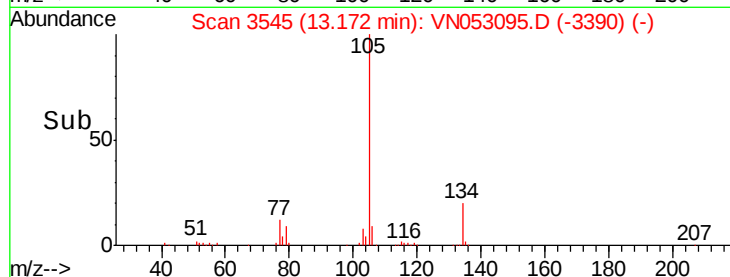
600000

400000

200000

0

Time-->



#82

p-Isopropyltoluene

Concen: 19.934 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

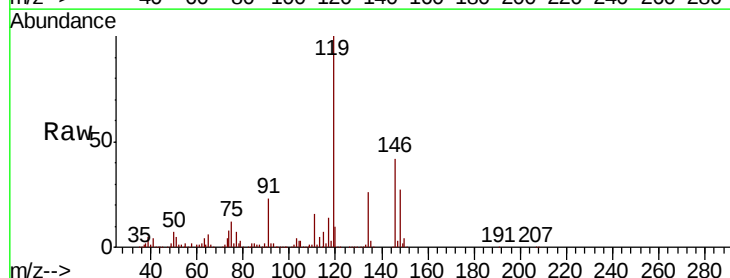
Tgt Ion:119 Resp: 832876

Ion Ratio Lower Upper

119 100

134 26.5 0.0 52.6

91 22.5 0.0 46.2



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

13.29

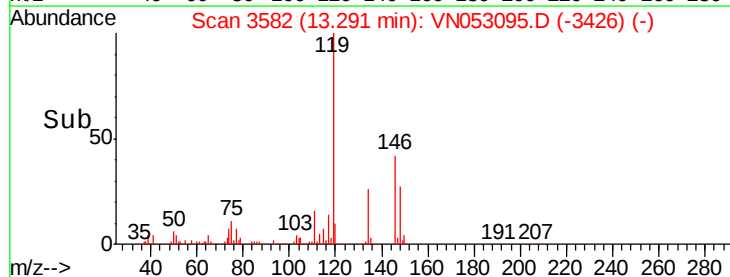
600000

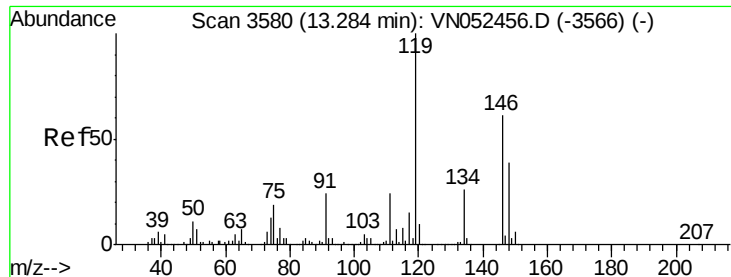
400000

200000

0

Time-->

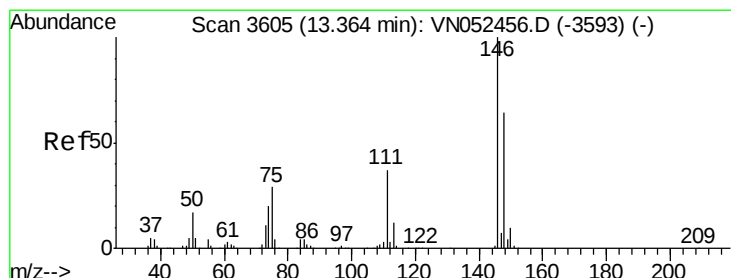
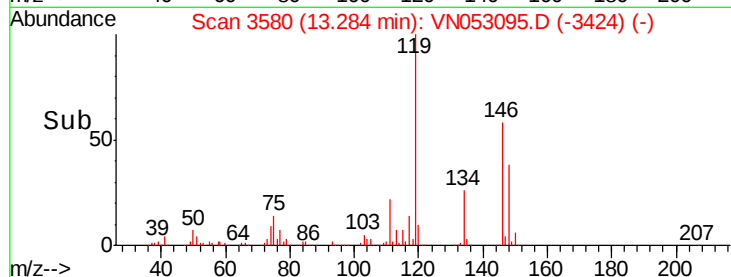
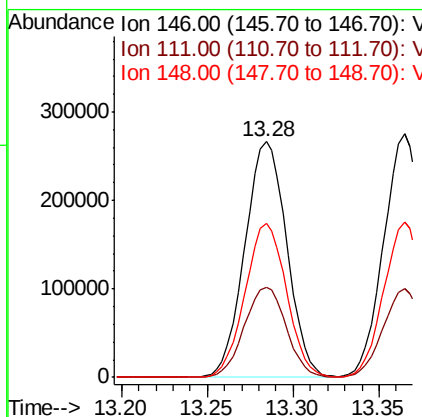
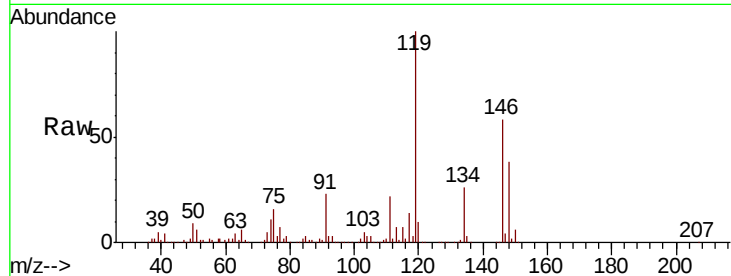




#83
 1,3-Dichlorobenzene
 Concen: 21.118 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

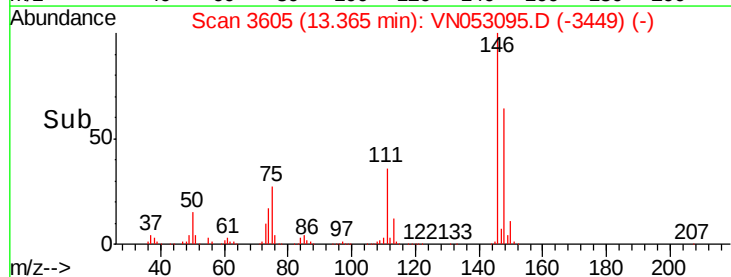
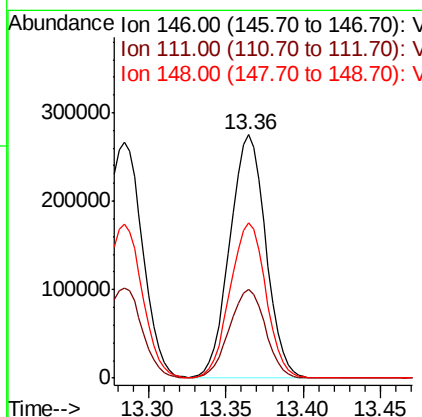
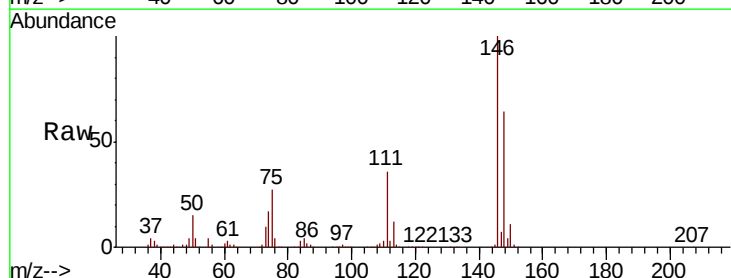
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

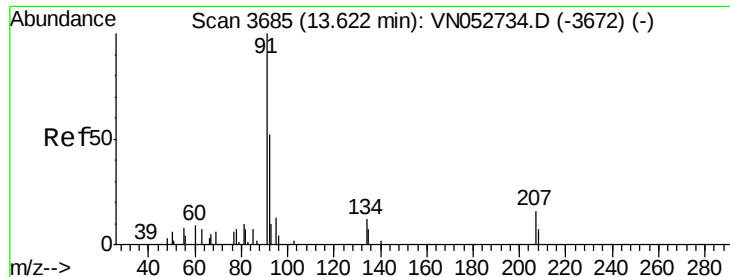
Tot Ion:146 Resp: 449878
 Ion Ratio Lower Upper
 146 100
 111 38.2 19.7 59.0
 148 64.5 32.3 96.8



#84
 1,4-Dichlorobenzene
 Concen: 21.583 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion:146 Resp: 444225
 Ion Ratio Lower Upper
 146 100
 111 36.6 18.8 56.3
 148 63.7 32.5 97.4





#85

n-Butylbenzene

Concen: 18.280 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampled :

VN1221WBS01

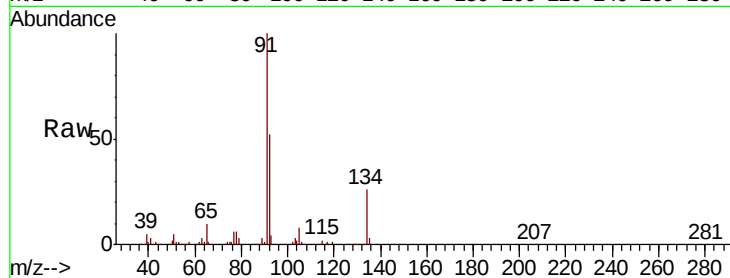
Tot Ion: 91 Resp: 656067

Ion Ratio Lower Upper

91 100

92 52.3 0.0 104.2

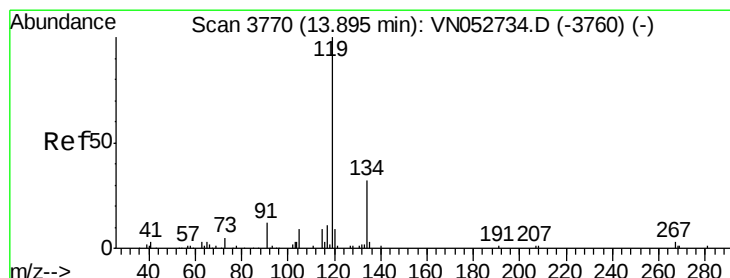
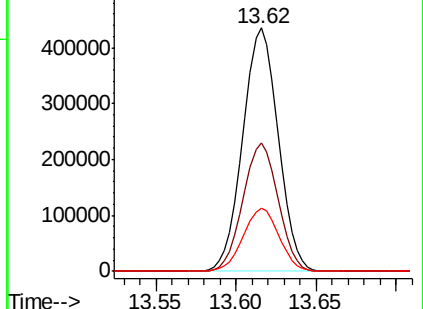
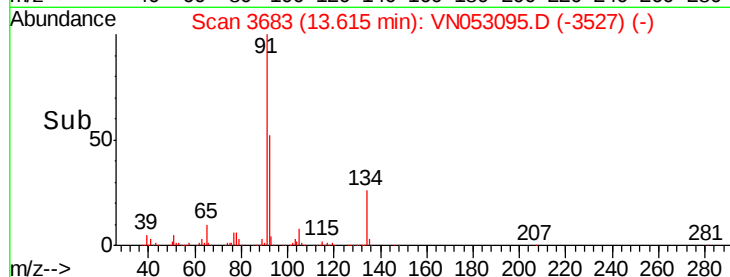
134 26.4 0.0 50.6



Abundance Ion 91.00 (90.70 to 91.70): VN052734.D (-3672) (-)

Ion 92.00 (91.70 to 92.70): VN052734.D (-3672) (-)

Ion 134.00 (133.70 to 134.70): VN052734.D (-3672) (-)



#86

Hexachloroethane

Concen: 18.513 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN053095.D

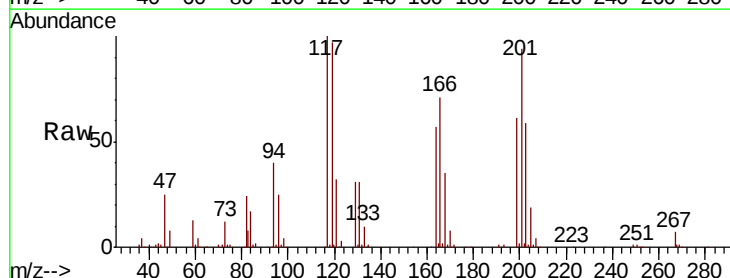
Acq: 21 Dec 2018 10:44

Tgt Ion: 117 Resp: 131062

Ion Ratio Lower Upper

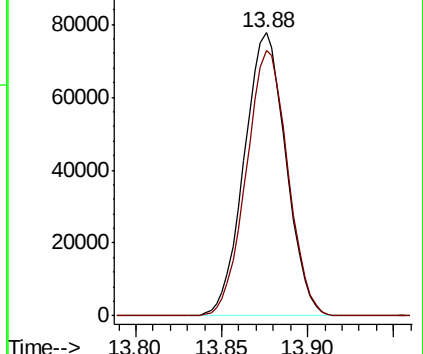
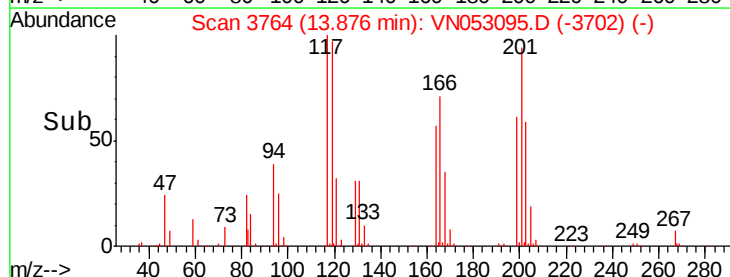
117 100

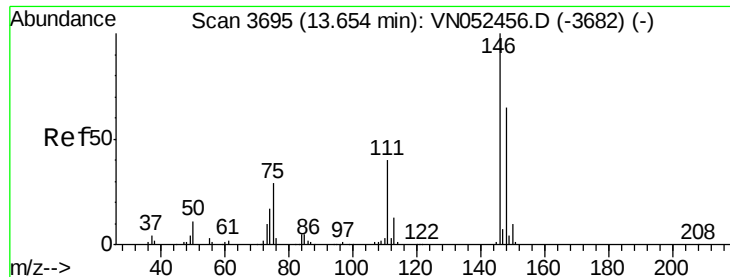
201 93.1 43.8 131.3



Abundance Ion 117.00 (116.70 to 117.70): VN052734.D (-3760) (-)

Ion 201.00 (200.70 to 201.70): VN052734.D (-3760) (-)

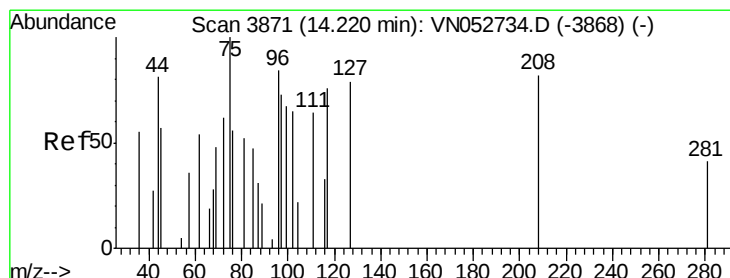
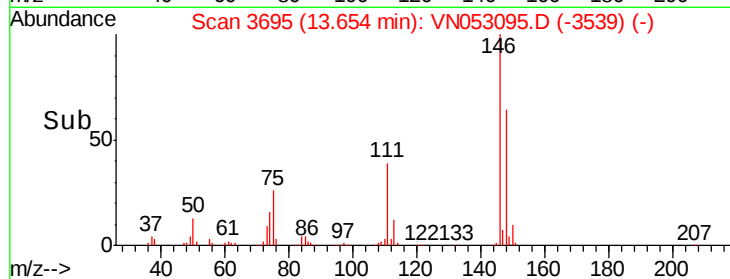
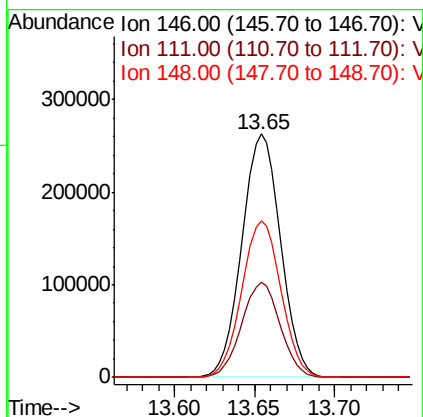
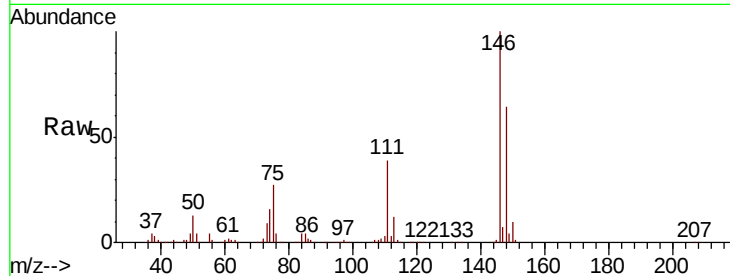




#87
 1,2-Dichlorobenzene
 Concen: 21.417 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

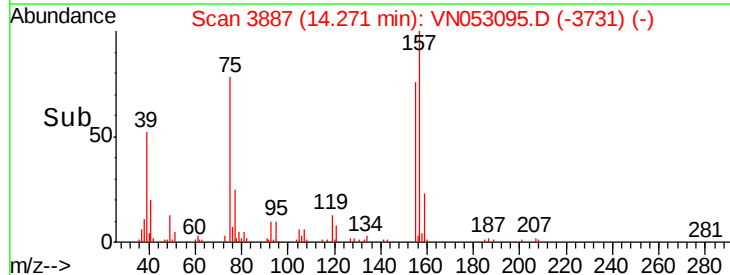
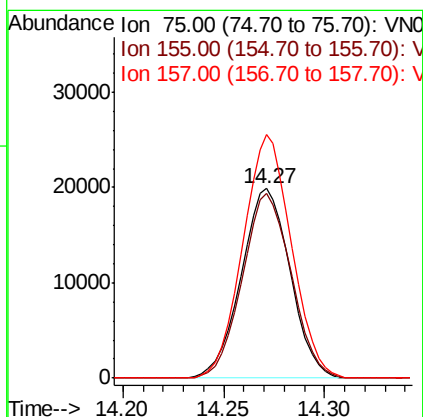
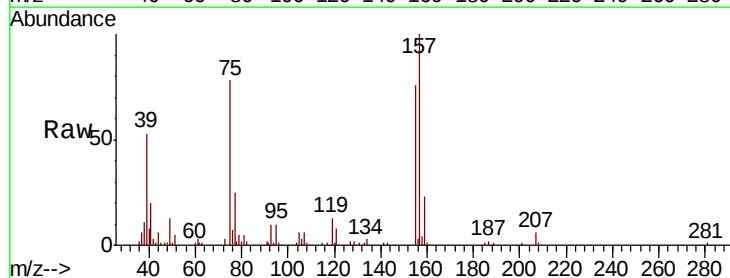
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

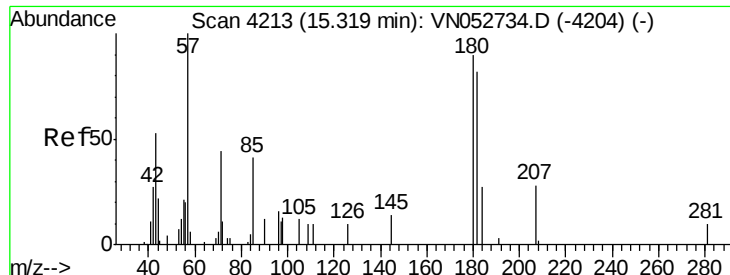
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.3	60.8
148	64.9	32.1	96.5



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 22.156 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.8	72.2	108.2
157	127.0	94.2	141.2

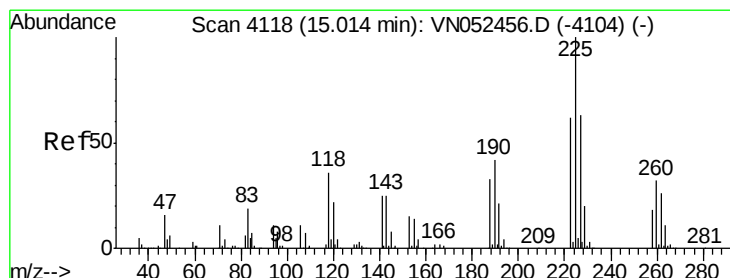
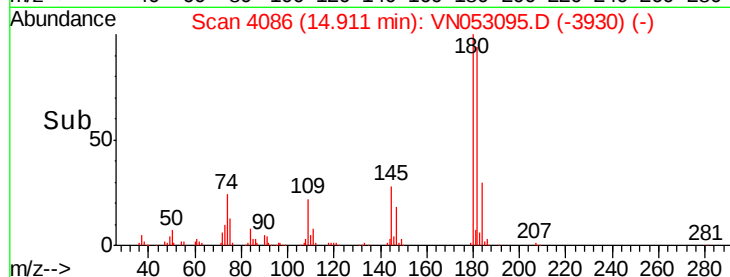
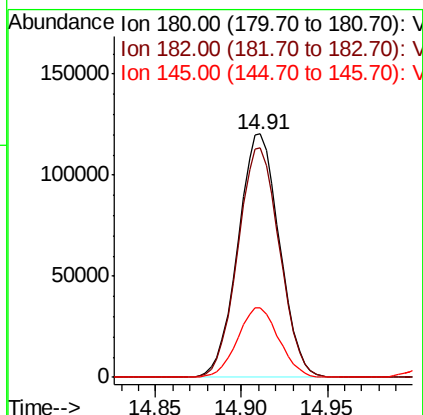
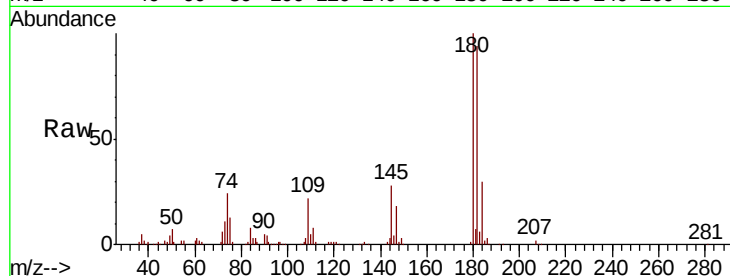




#89
 1,2,4-Trichlorobenzene
 Concen: 20.207 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

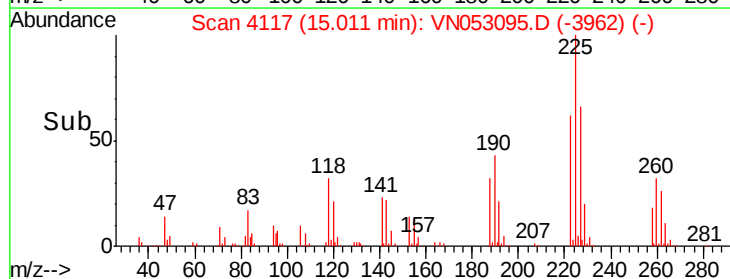
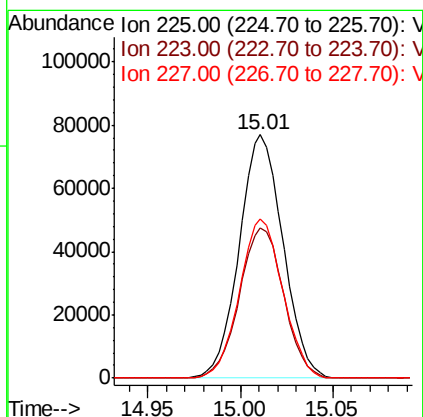
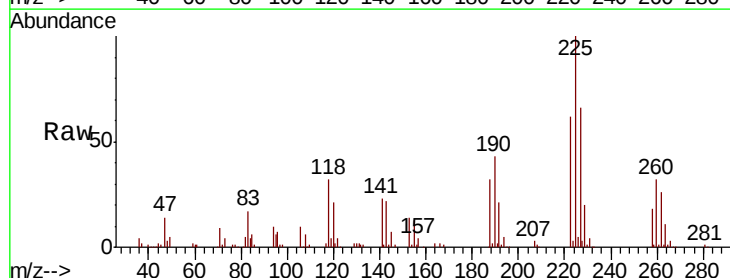
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1221WBS01

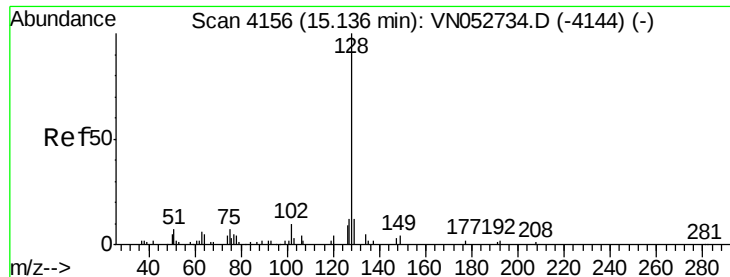
Tot Ion:180 Resp: 201815
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.6 114.8
 145 28.6 23.6 35.4



#90
 Hexachlorobutadiene
 Concen: 19.307 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN053095.D
 Acq: 21 Dec 2018 10:44

Tgt Ion:225 Resp: 126495
 Ion Ratio Lower Upper
 225 100
 223 62.5 0.0 125.6
 227 64.6 0.0 127.8





#91

Naphthalene

Concen: 21.974 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

Instrument :

MSVOA_N

ClientSampleId :

VN1221WBS01

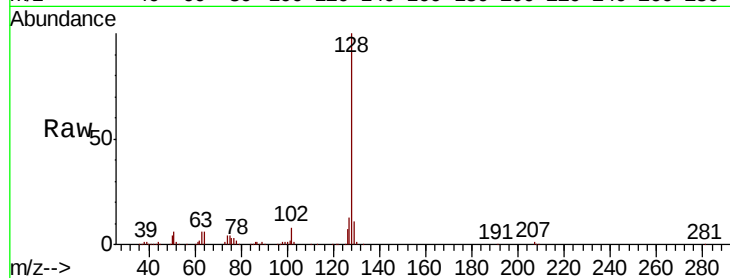
Tot Ion:128 Resp: 443200

Ion Ratio Lower Upper

128 100

127 12.7 9.9 14.9

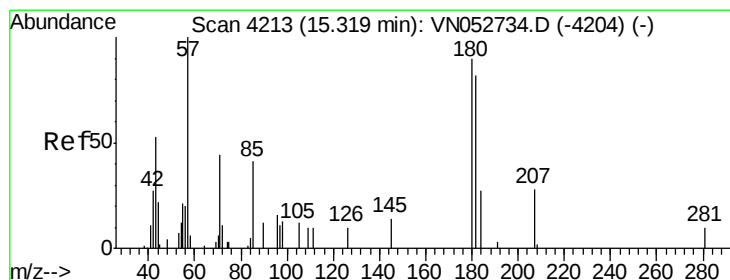
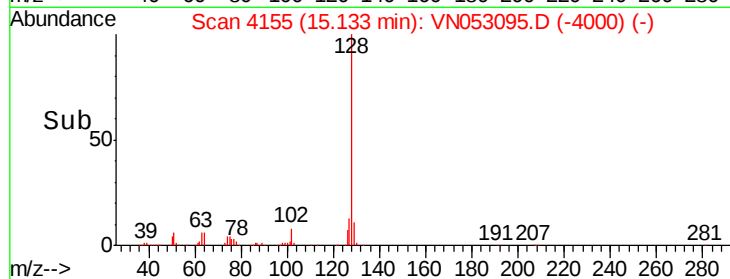
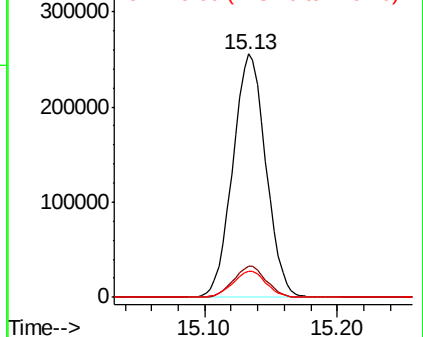
129 11.0 8.5 12.7



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: 20.175 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053095.D

Acq: 21 Dec 2018 10:44

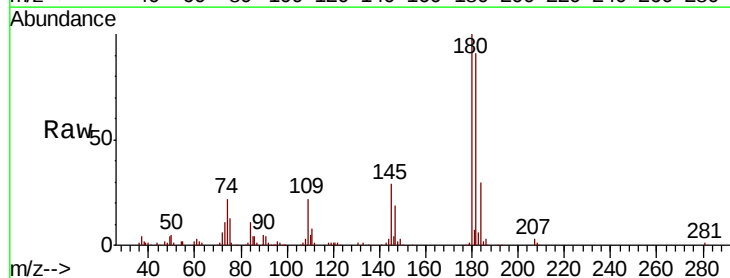
Tgt Ion:180 Resp: 185695

Ion Ratio Lower Upper

180 100

182 96.5 0.0 196.2

145 30.7 0.0 62.2



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

