

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050998.D
 Acq On : 31 Aug 2018 19:45
 Operator : MD\SY
 Sample : VN0831WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

Quant Time: Aug 31 23:08:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	116575	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	632642	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	542946	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	219538	29.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.37%
60) 4-Bromofluorobenzene	12.40	95	236451	29.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.63%
63) Toluene-d8	10.09	98	792195	31.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	145174	20.05	ug/l	97
3) Chloromethane	2.06	50	162596	19.02	ug/l	99
4) Vinyl Chloride	2.18	62	163508	19.36	ug/l	99
5) Bromomethane	2.57	94	95104	18.47	ug/l	99
6) Chloroethane	2.70	64	97211	19.51	ug/l	99
7) Trichlorofluoromethane	3.02	101	221956	19.82	ug/l	99
8) Diethyl Ether	3.41	74	73668	18.66	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	138601	19.99	ug/l	98
10) 1,1-Dichloroethene	3.74	96	120533	19.14	ug/l	97
11) Methyl Iodide	3.95	142	101367	17.25	ug/l	100
12) Methyl Acetate	4.33	43	139021	19.09	ug/l	98
13) Acrolein	3.61	56	7865	48.76	ug/l	93
14) Acrylonitrile	4.99	53	203756	82.74	ug/l	99
15) Acetone	3.82	58	48429	76.85	ug/l	99
16) Carbon Disulfide	4.05	76	339799	17.94	ug/l	99
17) Allyl chloride	4.33	41	180499	18.21	ug/l	97
18) Methylene Chloride	4.55	84	144815	19.59	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	129653	19.32	ug/l	98
20) Diisopropyl ether	5.96	45	403716	19.62	ug/l	99
21) 1,1-Dichloroethane	5.85	63	246909	19.57	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	144532	19.06	ug/l	98
23) tert-Butyl Alcohol	4.79	59	37414	71.44	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	313570	18.20	ug/l	98
25) Chloroform	7.37	83	252435	20.05	ug/l	98
26) Cyclohexane	7.65	56	194075	18.57	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	181890	19.20	ug/l	98
30) 2-Butanone	6.84	43	215660	74.02	ug/l	100
31) 2,2-Dichloropropane	6.83	77	184268	19.99	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	210300	19.58	ug/l	98
33) Carbon Tetrachloride	7.78	117	186526	19.28	ug/l	96
34) Benzene	8.04	78	563681	19.24	ug/l	99
35) Methacrylonitrile	7.17	41	43673	13.68	ug/l	95
36) 1,2-Dichloroethane	8.13	62	171097	19.31	ug/l	100
37) Trichloroethene	8.84	130	148665	19.41	ug/l	98
38) Methylcyclohexane	9.08	83	184608	18.15	ug/l	99
39) 1,2-Dichloropropane	9.12	63	150935	19.72	ug/l	99
40) Dibromomethane	9.21	93	86417	18.75	ug/l	98

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

Quant Time: Aug 31 23:08:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	187434	19.29	ug/l	99
42) Vinyl Acetate	5.90	43	1147964	85.54	ug/l	100
43) Ethyl Acetate	6.94	43	98373	16.48	ug/l	98
44) Isopropyl Acetate	8.17	43	181224	17.21	ug/l	98
45) 1,4-Dioxane	9.20	88	23926	305.81	ug/l	96
46) Methyl methacrylate	9.20	41	84931	16.10	ug/l	96
47) n-amyl Acetate	12.07	43	120807	14.27	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	169200	17.76	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	205170	18.75	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	126053	18.82	ug/l	99
51) Ethyl methacrylate	10.43	69	132391	16.16	ug/l	97
52) 1,3-Dichloropropane	10.71	76	204987	18.48	ug/l	99
53) Dibromochloromethane	10.90	129	140891	18.50	ug/l	98
54) 1,2-Dibromoethane	11.01	107	117839	17.79	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	268449	78.73	ug/l	99
56) Bromoform	12.13	173	91661	16.92	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	504760	81.25	ug/l	99
59) 2-Hexanone	10.75	43	305124	75.14	ug/l	99
61) Tetrachloroethene	10.63	164	135942	20.09	ug/l	98
62) Toluene	10.16	91	602135	19.88	ug/l	99
64) Chlorobenzene	11.44	112	366597	19.53	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	142728	20.14	ug/l	99
66) Ethyl Benzene	11.51	91	594495	18.95	ug/l	99
67) m/p-Xylenes	11.62	106	473070	39.19	ug/l	100
68) o-Xylene	11.95	106	225343	19.54	ug/l	99
69) Styrene	11.97	104	347741	18.96	ug/l	99
70) Isopropylbenzene	12.25	105	592283	19.32	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	150025	18.08	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	166183	23.21	ug/l	92
73) Bromobenzene	12.53	156	151628	18.80	ug/l	98
74) n-propylbenzene	12.59	91	653977	18.87	ug/l	100
75) 2-Chlorotoluene	12.68	91	406773	19.32	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	489507	19.54	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	31362	15.38	ug/l	99
78) 4-Chlorotoluene	12.77	91	392402	18.93	ug/l	99
79) tert-butylbenzene	12.99	119	426666	19.61	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	492457	19.72	ug/l	99
81) sec-Butylbenzene	13.17	105	545365	19.16	ug/l	100
82) p-Isopropyltoluene	13.29	119	462938	18.84	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	253056	18.56	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	230460	17.84	ug/l	98
85) n-Butylbenzene	13.62	91	323490	17.26	ug/l	99
86) Hexachloroethane	13.87	117	88061	18.67	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	251022	18.70	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18885	16.27	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	83949	14.05	ug/l	99
90) Hexachlorobutadiene	15.01	225	80241	19.77	ug/l	98
91) Naphthalene	15.13	128	153352	16.79	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	91352	15.24	ug/l	98

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ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS02

Quant Time: Aug 31 23:08:54 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration

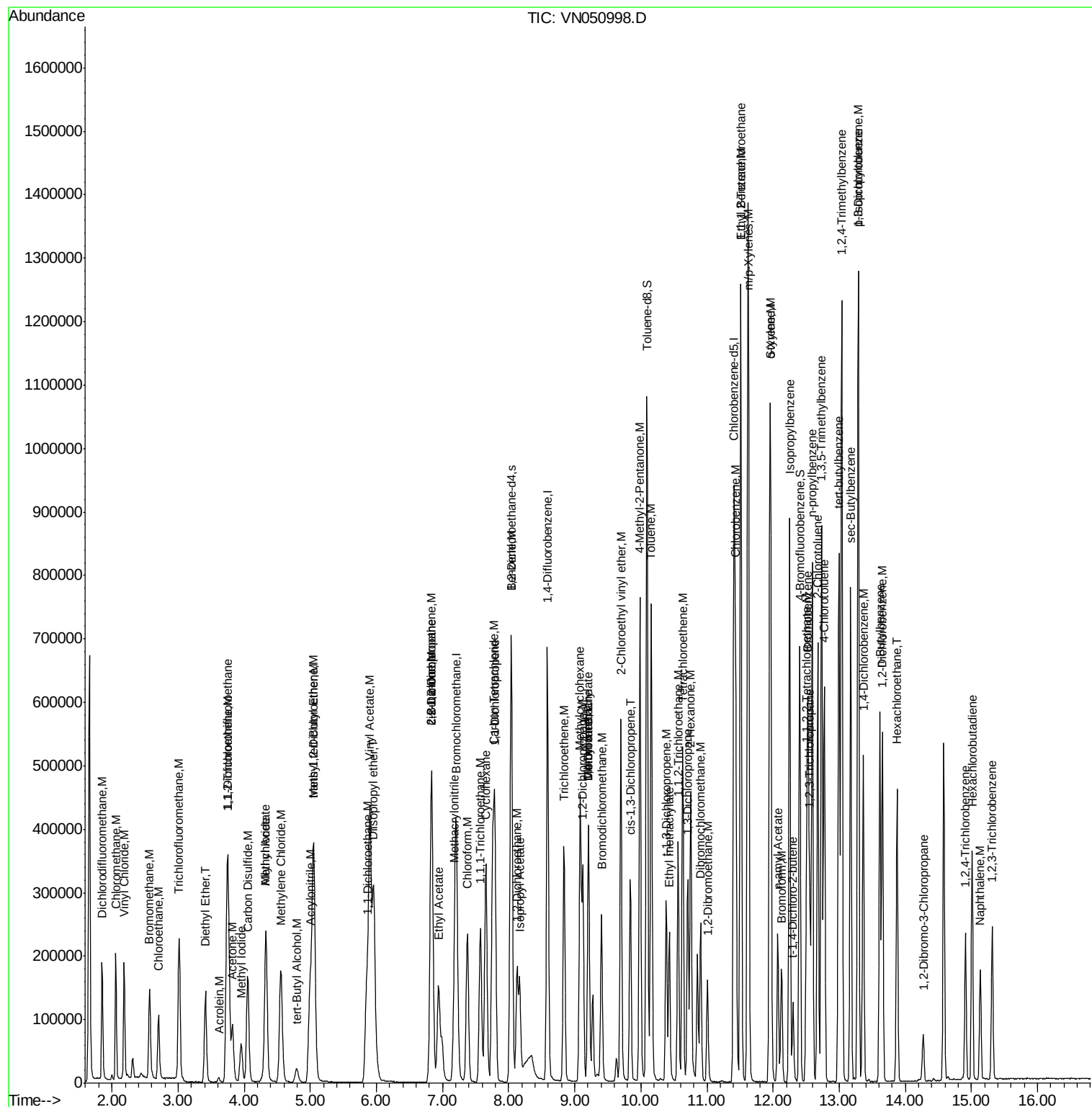
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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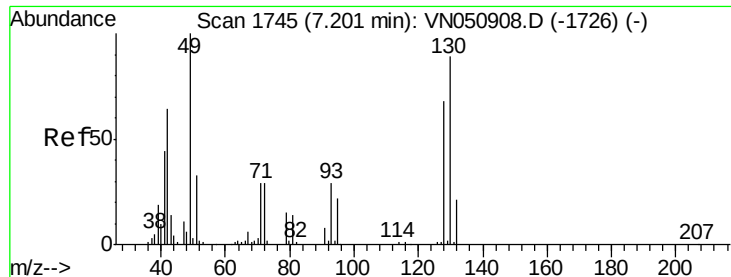
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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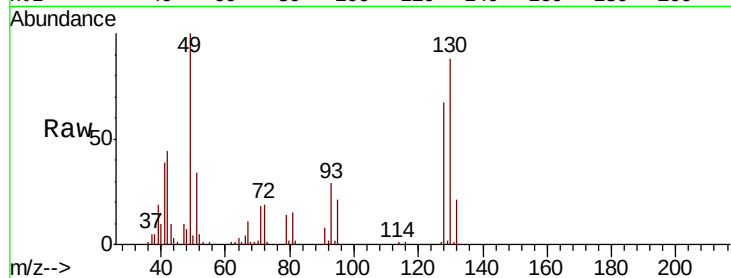




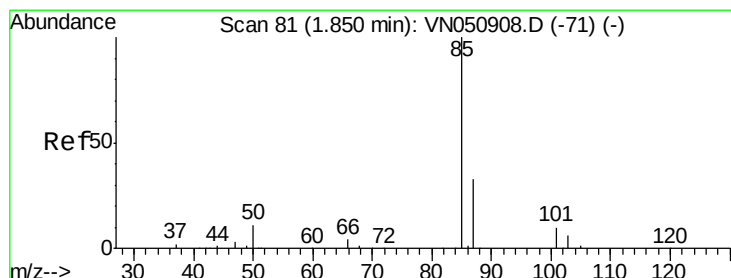
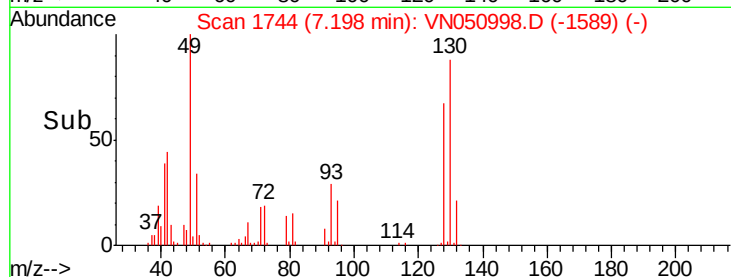
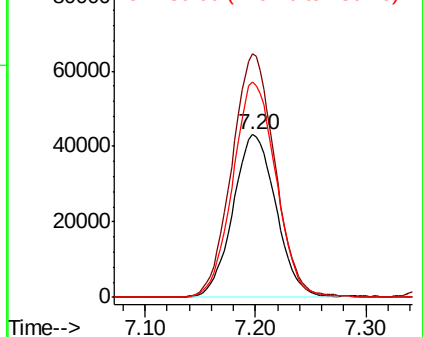
#1
 Bromochloromethane
 Concen: 30.00 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

Tot Ion:128 Resp: 116575
 Ion Ratio Lower Upper
 128 100
 49 150.3 0.0 380.3
 130 132.9 0.0 325.3

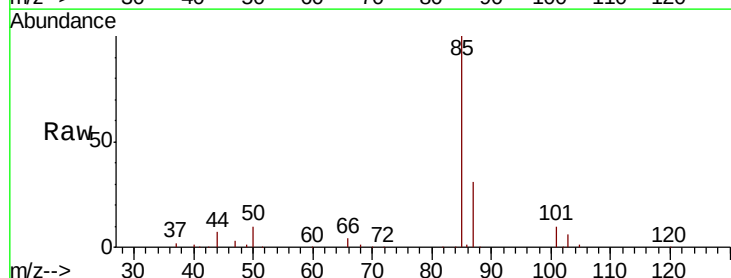


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

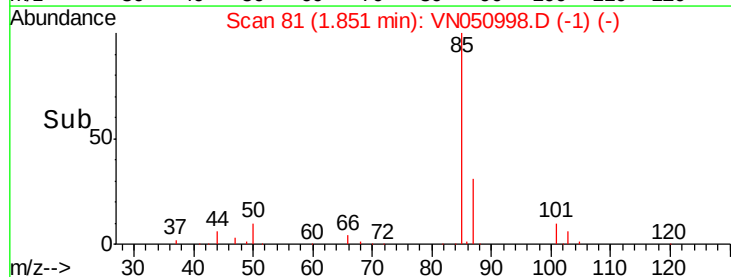
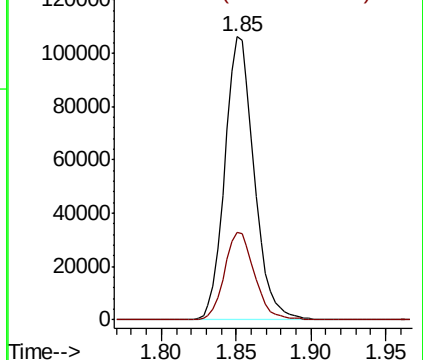


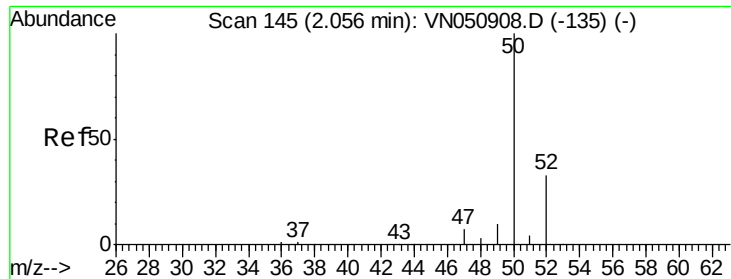
#2
 Dichlorodifluoromethane
 Concen: 20.05 ug/l
 RT: 1.85 min Scan# 81
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 85 Resp: 145174
 Ion Ratio Lower Upper
 85 100
 87 30.9 16.4 49.1



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





#3

Chloromethane

Concen: 19.02 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

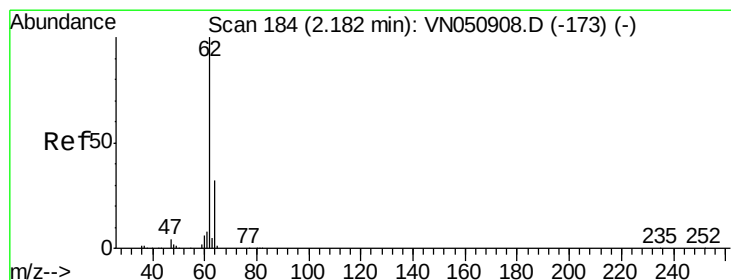
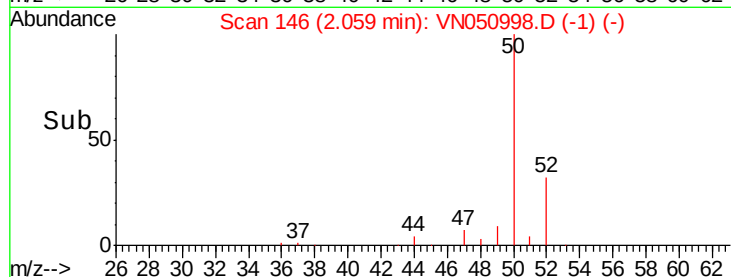
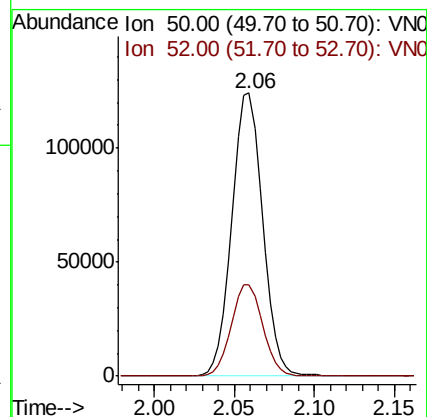
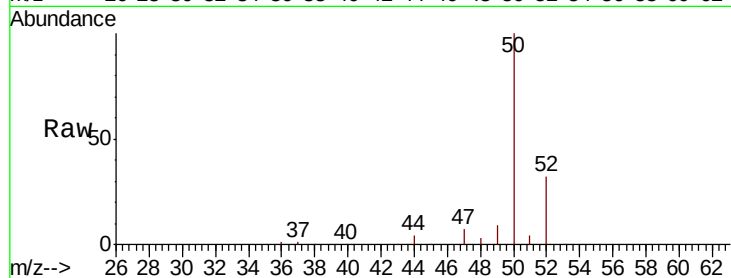
VN0831WBS02

Tot Ion: 50 Resp: 162596

Ion Ratio Lower Upper

50 100

52 32.4 26.2 39.4



#4

Vinyl Chloride

Concen: 19.36 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN050998.D

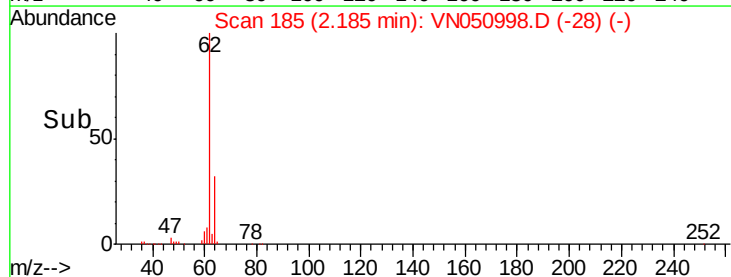
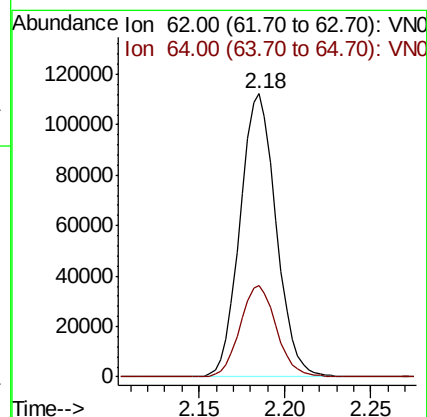
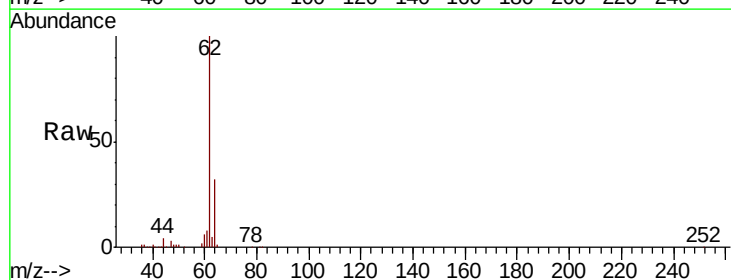
Acq: 31 Aug 2018 19:45

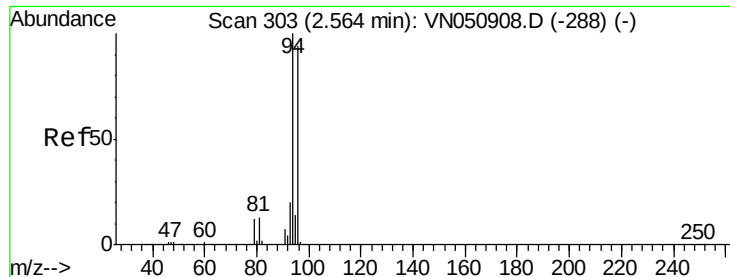
Tgt Ion: 62 Resp: 163508

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.0





#5

Bromomethane

Concen: 18.47 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

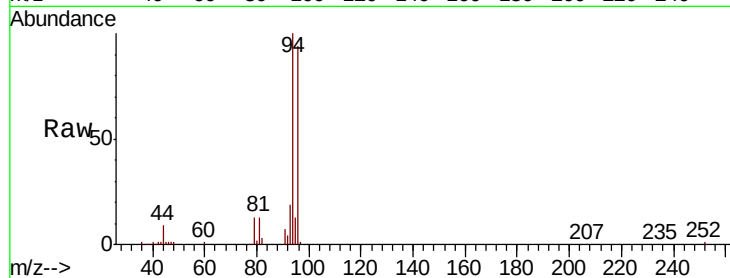
VN0831WBS02

Tot Ion: 94 Resp: 95104

Ion Ratio Lower Upper

94 100

96 94.1 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

2.57

50000

40000

30000

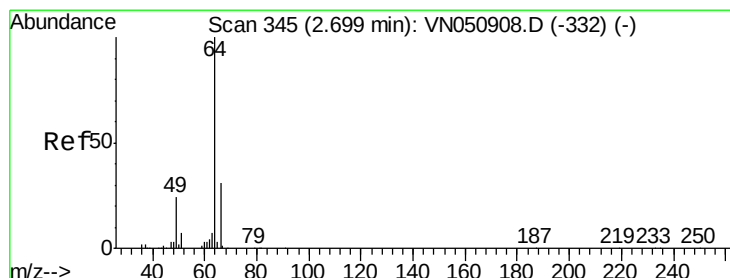
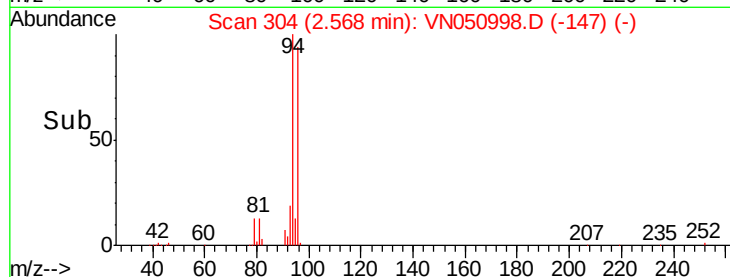
20000

10000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 19.51 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050998.D

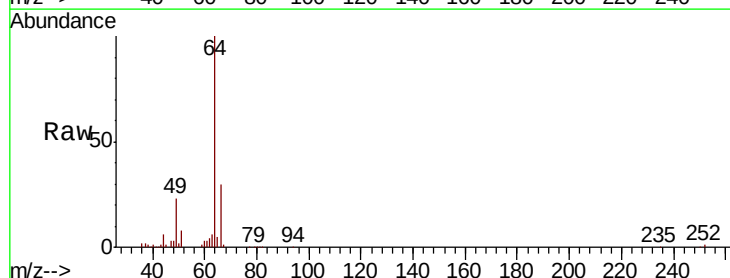
Acq: 31 Aug 2018 19:45

Tgt Ion: 64 Resp: 97211

Ion Ratio Lower Upper

64 100

66 30.1 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

2.70

50000

40000

30000

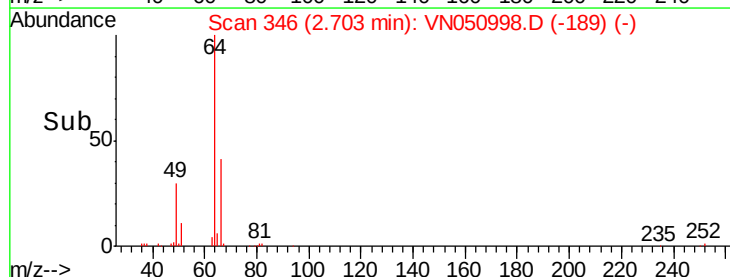
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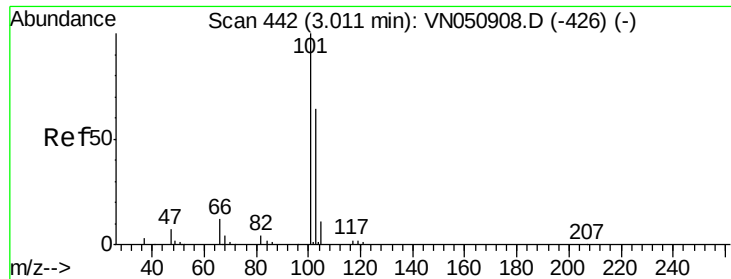
10000

0

Time-->

2.65 2.70 2.75 2.80



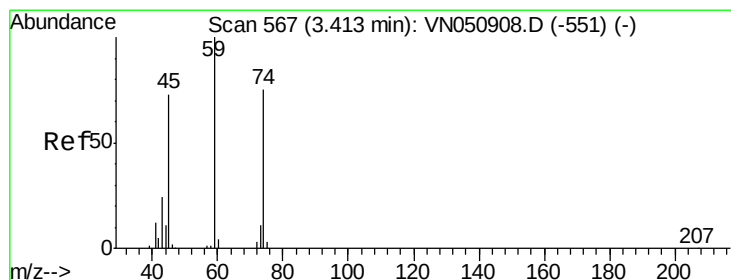
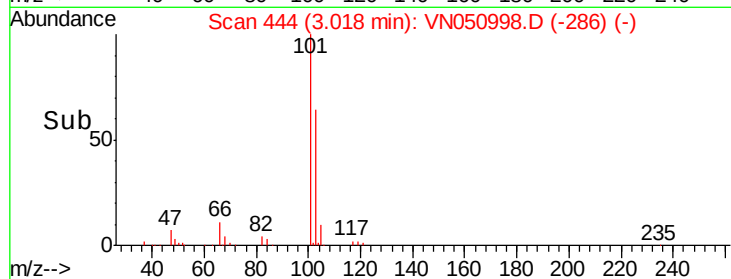
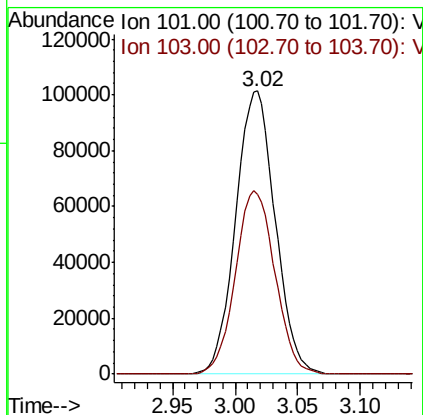
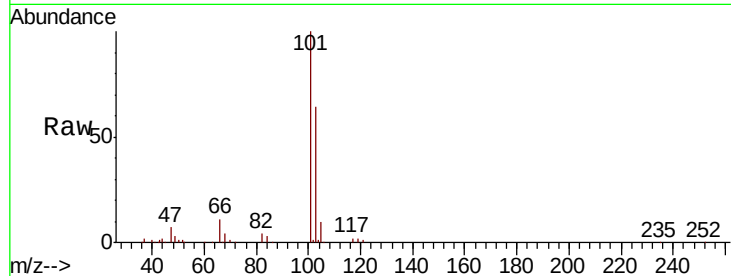


#7

Trichlorofluoromethane
 Concen: 19.82 ug/l
 RT: 3.02 min Scan# 444
 Delta R.T. 0.01 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

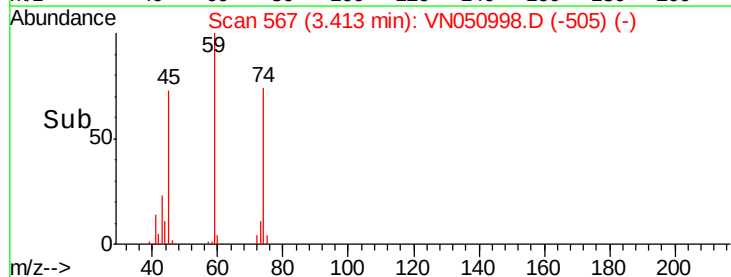
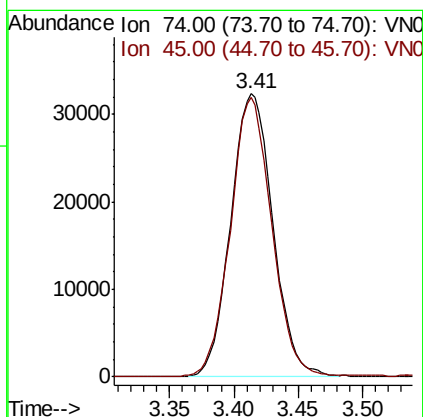
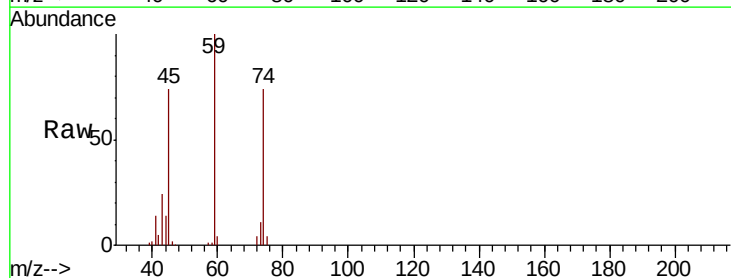
Tot Ion:101 Resp: 221956
 Ion Ratio Lower Upper
 101 100
 103 63.5 51.3 76.9

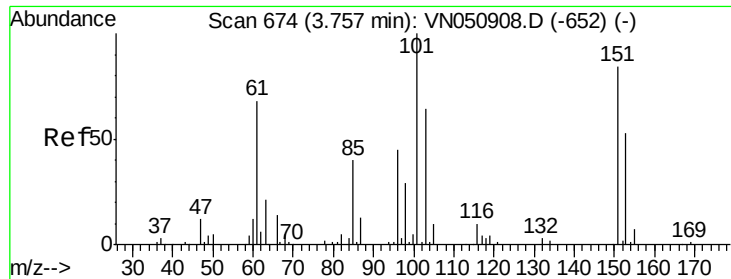


#8

Diethyl Ether
 Concen: 18.66 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 74 Resp: 73668
 Ion Ratio Lower Upper
 74 100
 45 96.9 19.7 177.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.99 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

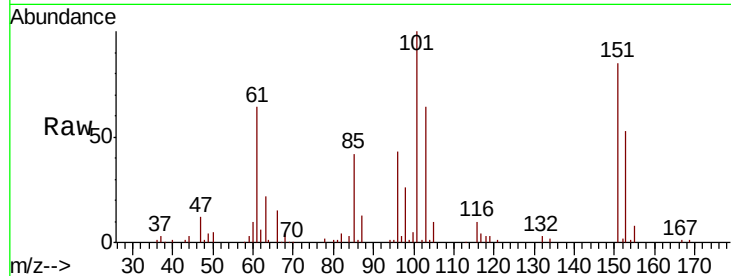
Tot Ion:101 Resp: 138601

Ion Ratio Lower Upper

101 100

85 41.5 0.0 83.6

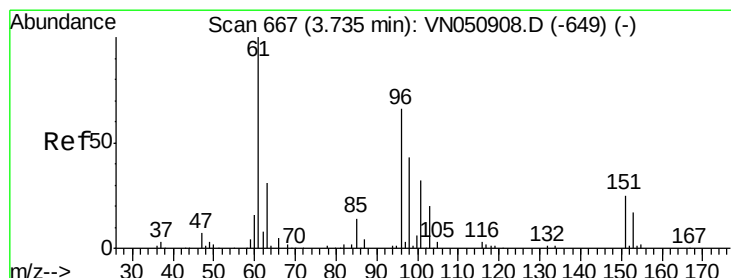
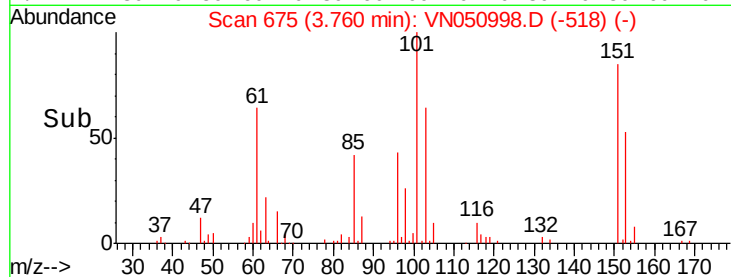
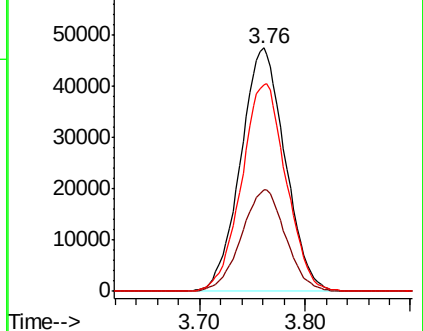
151 85.4 0.0 167.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.14 ug/l

RT: 3.74 min Scan# 668

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

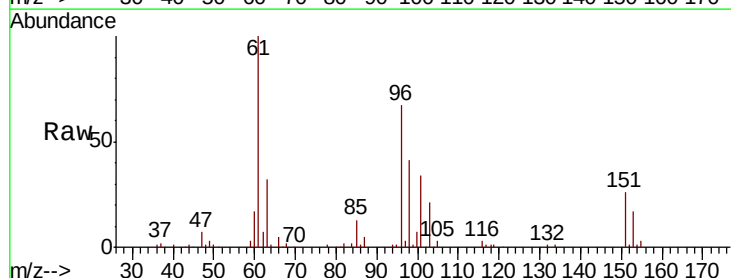
Tgt Ion: 96 Resp: 120533

Ion Ratio Lower Upper

96 100

61 148.5 121.8 182.8

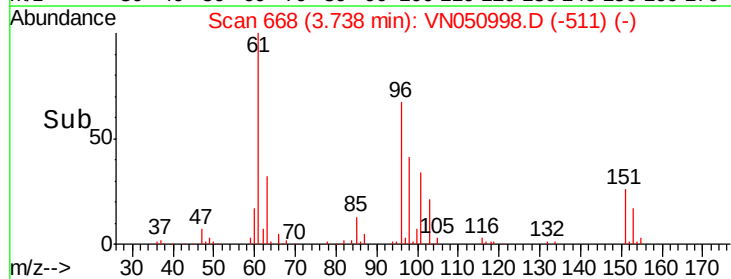
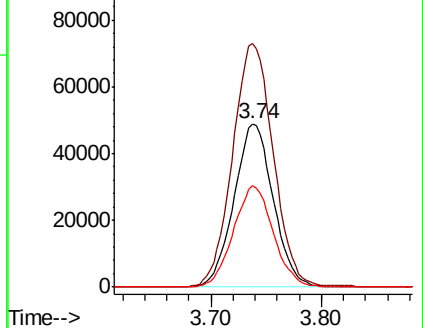
98 61.7 52.3 78.5

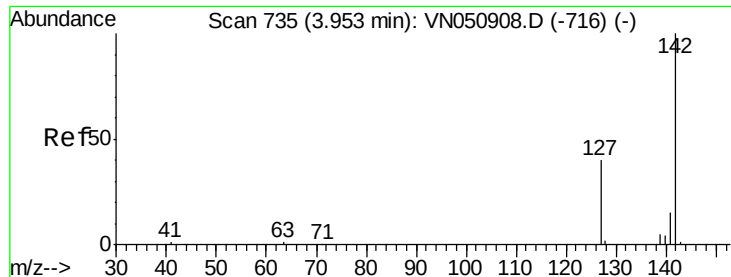


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

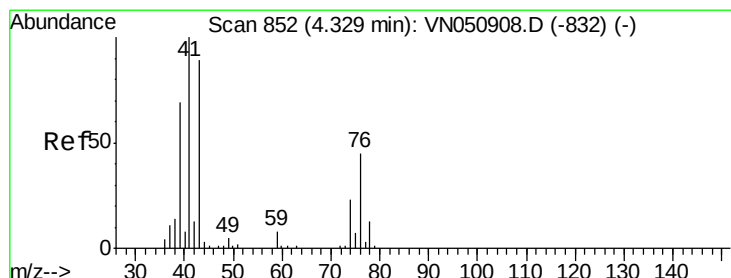
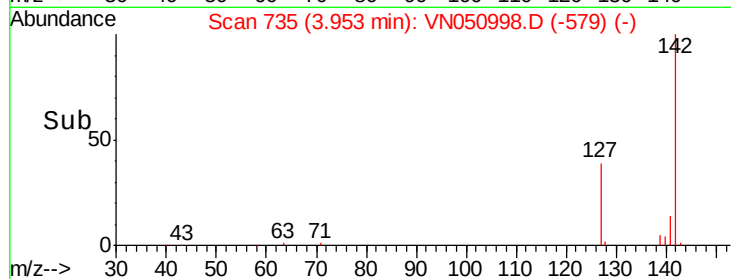
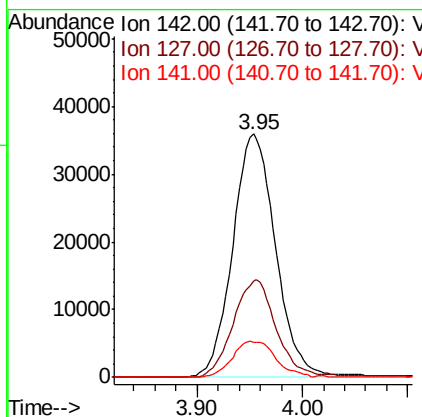
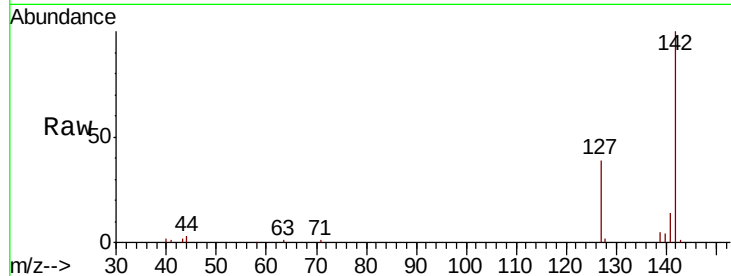




#11
Methyl Iodide
Concen: 17.25 ug/l
RT: 3.95 min Scan# 735
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

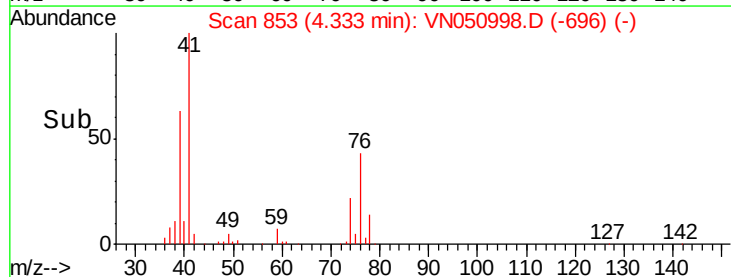
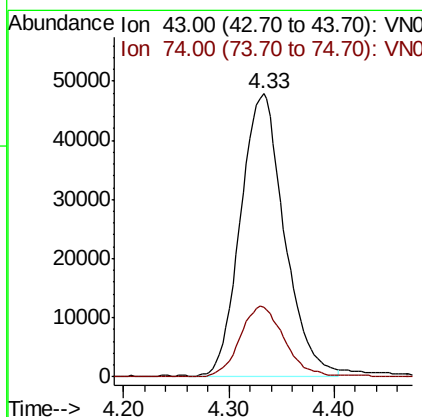
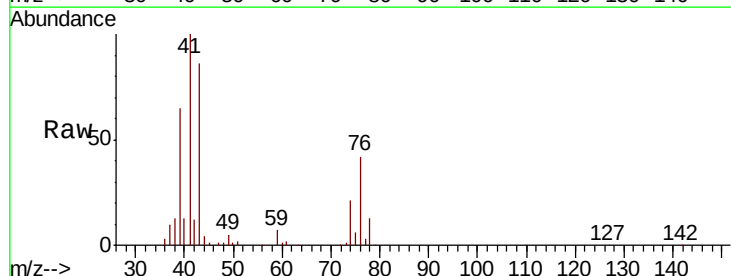
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS02

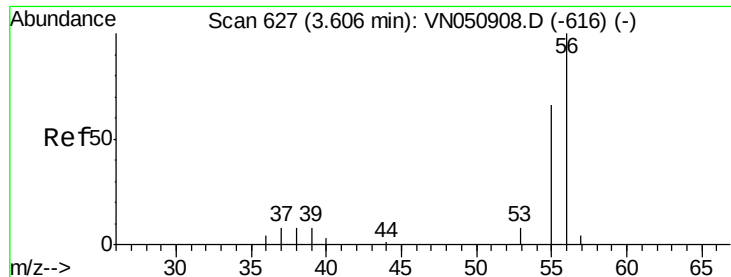
Tot Ion:142 Resp: 101367
Ion Ratio Lower Upper
142 100
127 39.2 19.7 59.1
141 14.6 7.3 22.0



#12
Methyl Acetate
Concen: 19.09 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 43 Resp: 139021
Ion Ratio Lower Upper
43 100
74 24.6 20.6 31.0





#13

Acrolein

Concen: 48.76 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

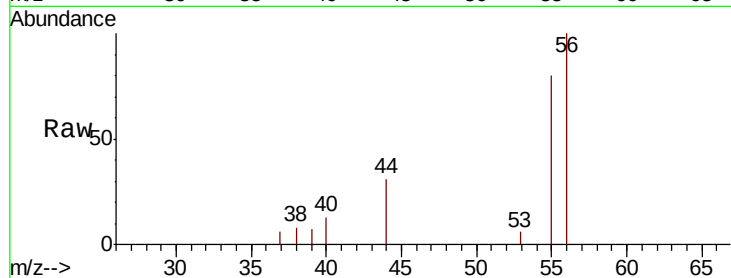
VN0831WBS02

Tot Ion: 56 Resp: 7865

Ion Ratio Lower Upper

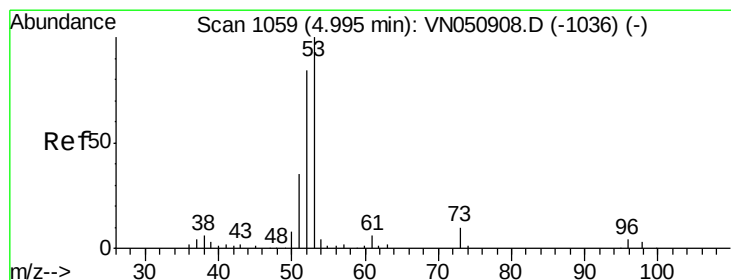
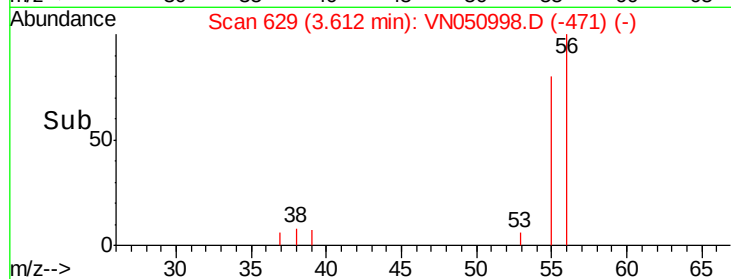
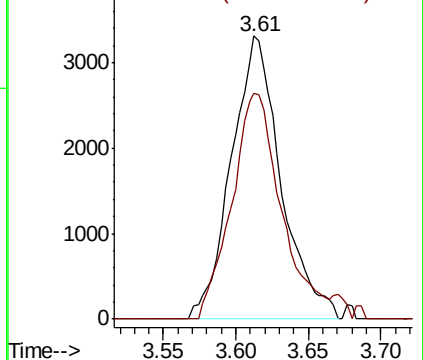
56 100

55 79.7 59.1 88.7



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 82.74 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

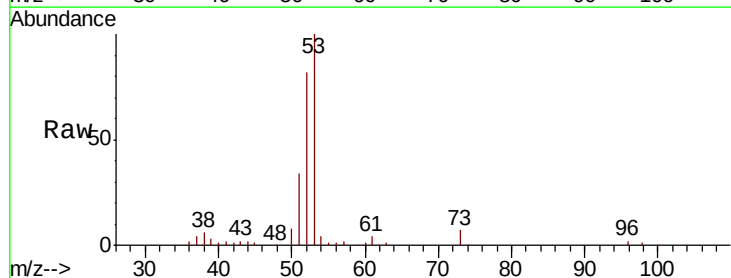
Tgt Ion: 53 Resp: 203756

Ion Ratio Lower Upper

53 100

52 83.6 42.2 126.6

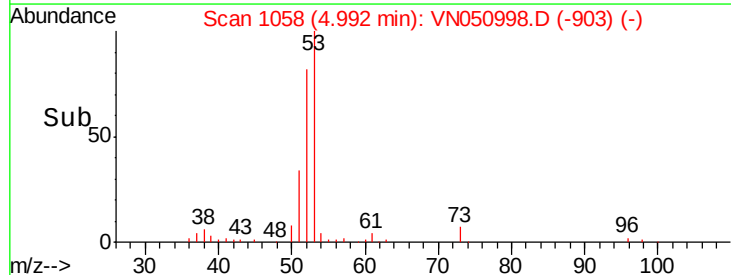
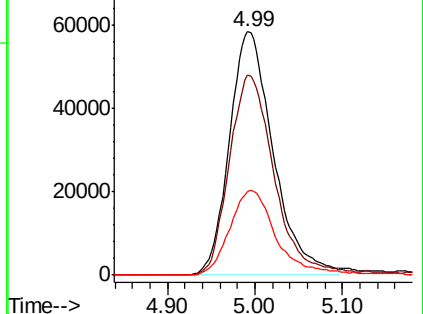
51 36.4 17.7 53.1

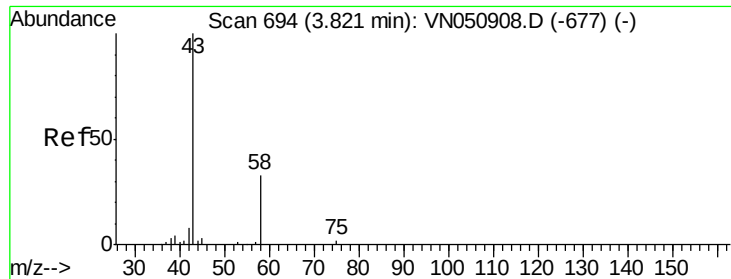


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 76.85 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

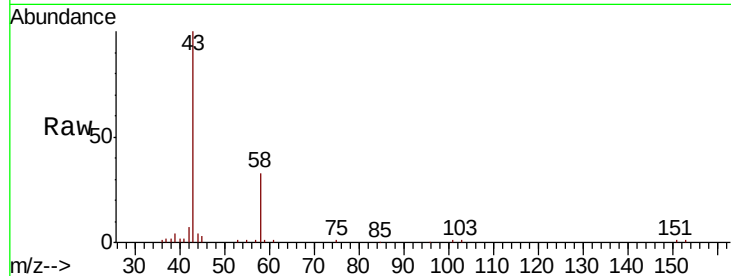
VN0831WBS02

Tot Ion: 58 Resp: 48429

Ion Ratio Lower Upper

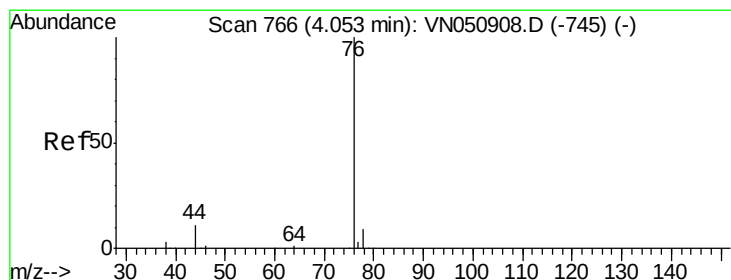
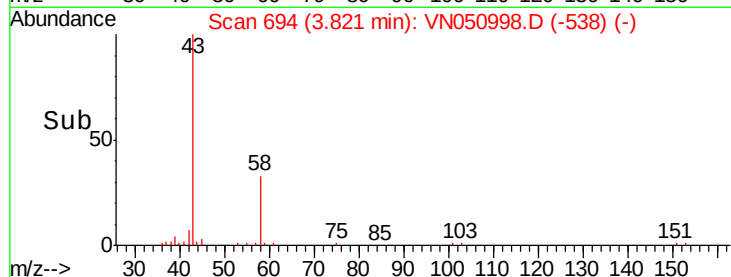
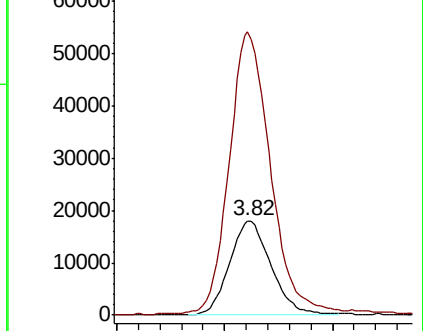
58 100

43 297.9 239.4 359.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 17.94 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050998.D

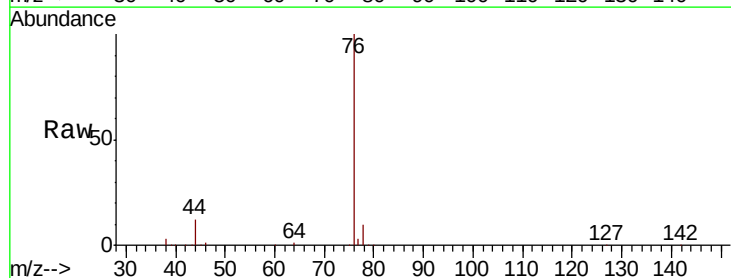
Acq: 31 Aug 2018 19:45

Tgt Ion: 76 Resp: 339799

Ion Ratio Lower Upper

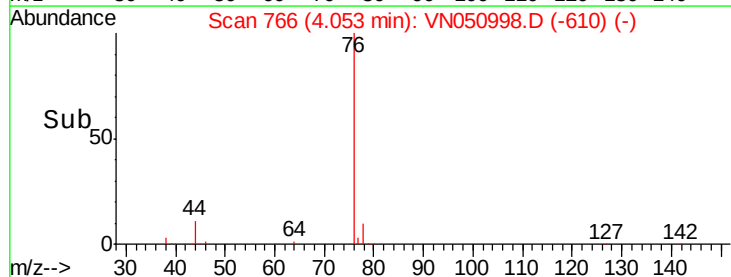
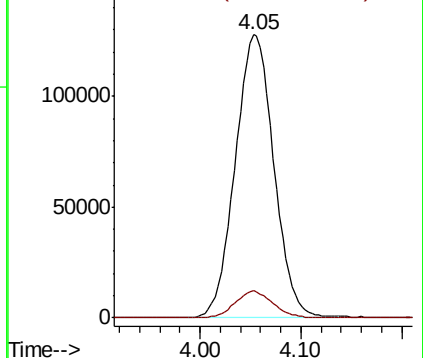
76 100

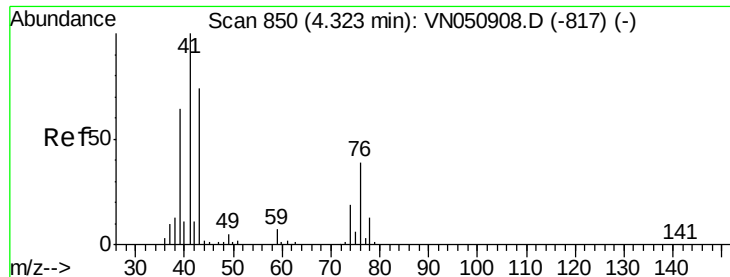
78 9.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

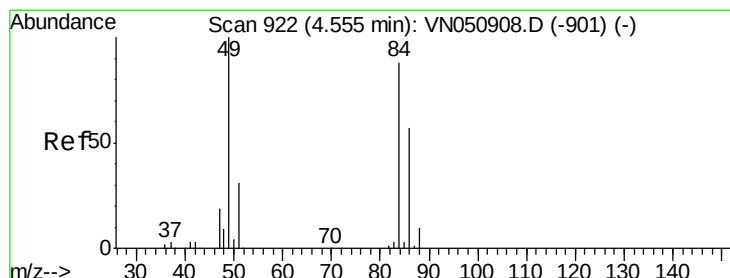
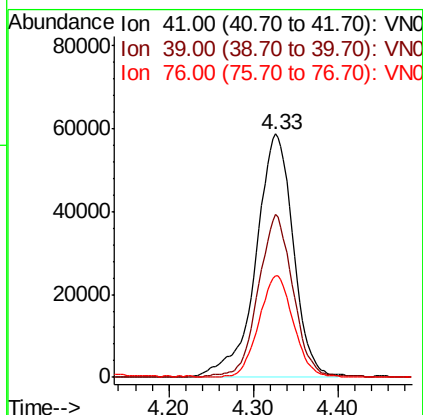
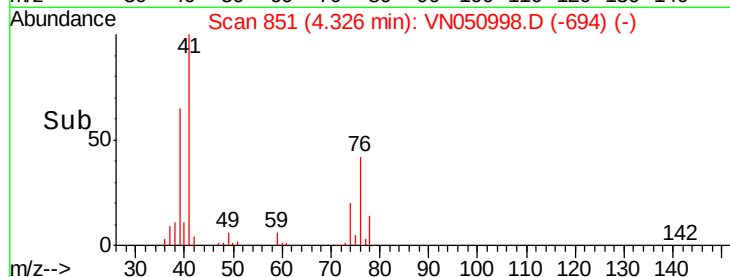
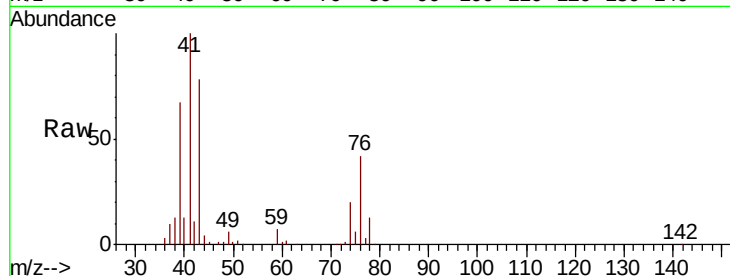




#17
Allvl chloride
Concen: 18.21 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

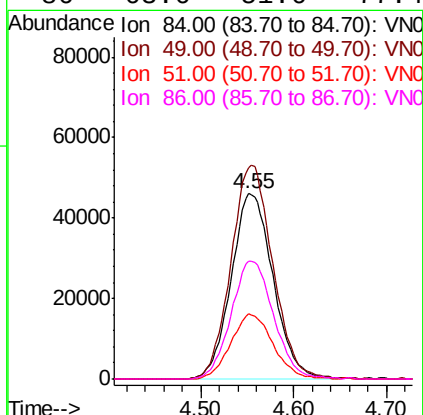
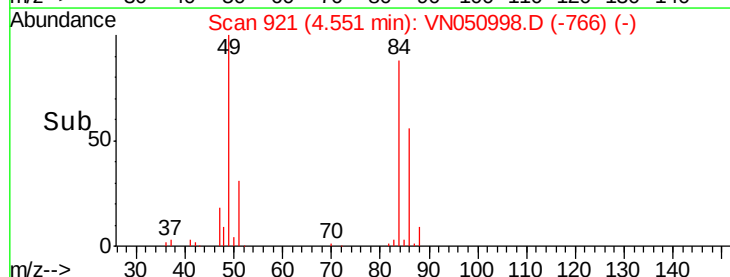
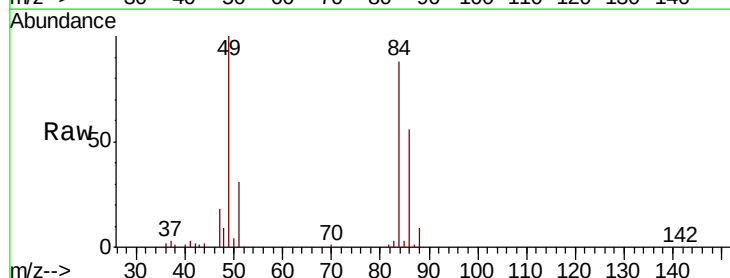
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS02

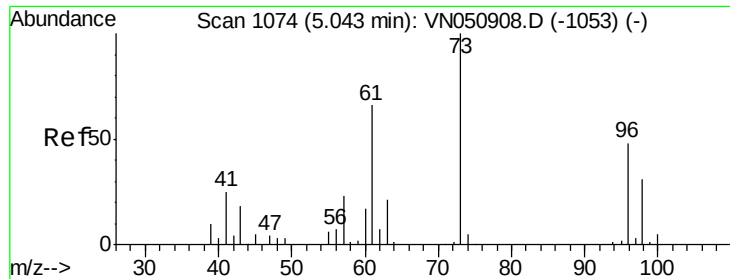
Tot Ion: 41 Resp: 180499
Ion Ratio Lower Upper
41 100
39 66.9 32.2 96.6
76 41.1 19.6 58.7



#18
Methylene Chloride
Concen: 19.59 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 84 Resp: 144815
Ion Ratio Lower Upper
84 100
49 114.0 90.6 135.8
51 34.9 28.4 42.6
86 63.6 51.6 77.4

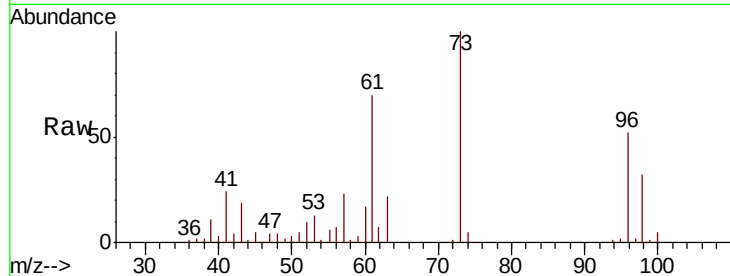




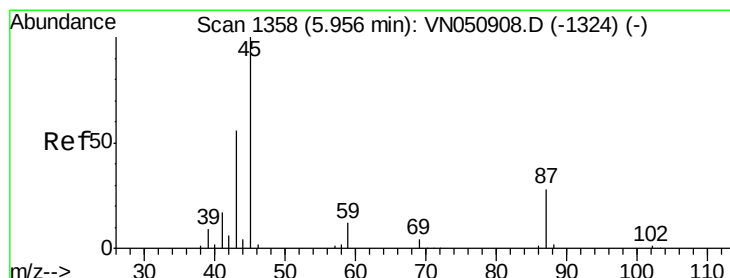
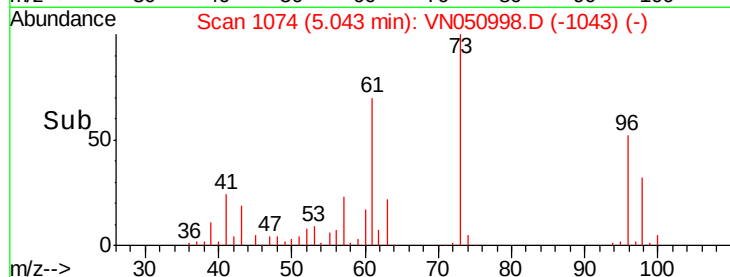
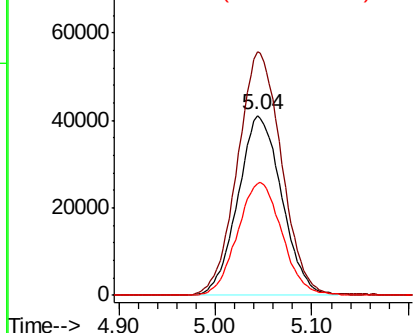
#19
trans-1,2-Dichloroethene
Concen: 19.32 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS02

Tot Ion: 96 Resp: 129653
Ion Ratio Lower Upper
96 100
61 135.2 109.5 164.3
98 62.0 51.9 77.9

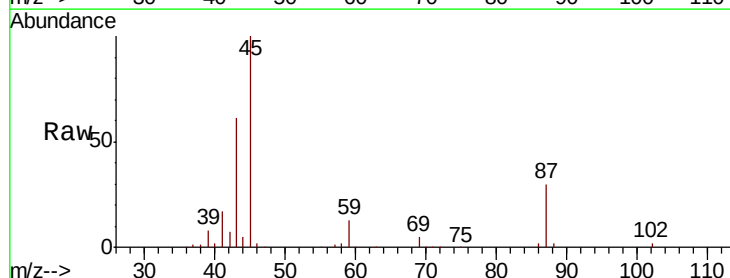


Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

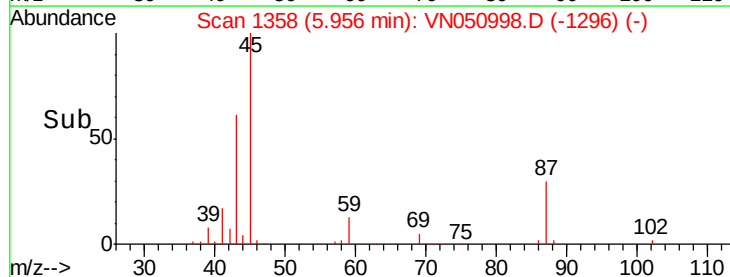
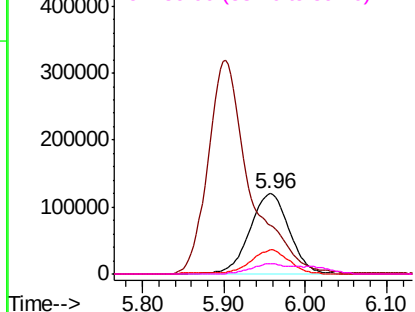


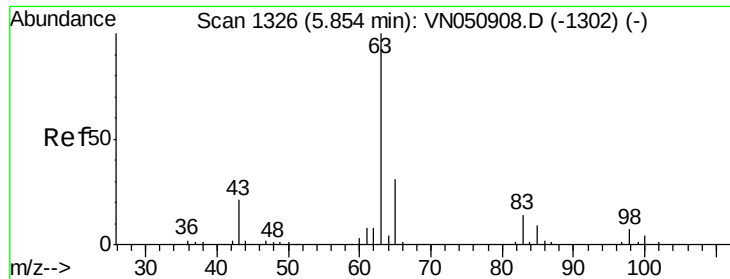
#20
Diisopropyl ether
Concen: 19.62 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 45 Resp: 403716
Ion Ratio Lower Upper
45 100
43 57.9 47.0 70.6
87 29.4 22.8 34.2
59 12.6 9.5 14.3



Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0





#21

1,1-Dichloroethane

Concen: 19.57 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

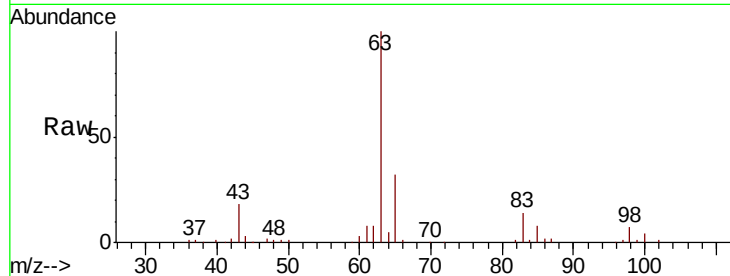
Tot Ion: 63 Resp: 246909

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.9

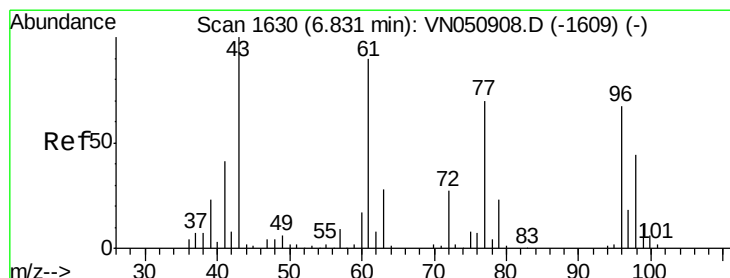
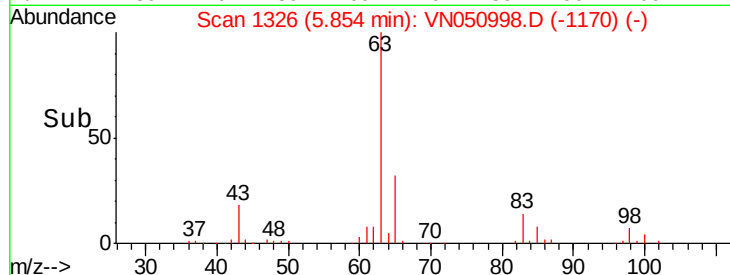
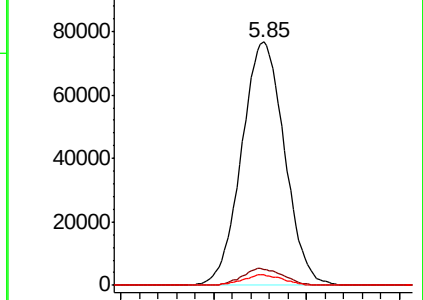
100 4.4 2.0 6.0



Abundance Ion 63.00 (62.70 to 63.70): VN050998.D (-1302) (-)

Ion 98.00 (97.70 to 98.70): VN050998.D (-1302) (-)

Ion 100.00 (99.70 to 100.70): VN050998.D (-1302) (-)



#22

cis-1,2-Dichloroethene

Concen: 19.06 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

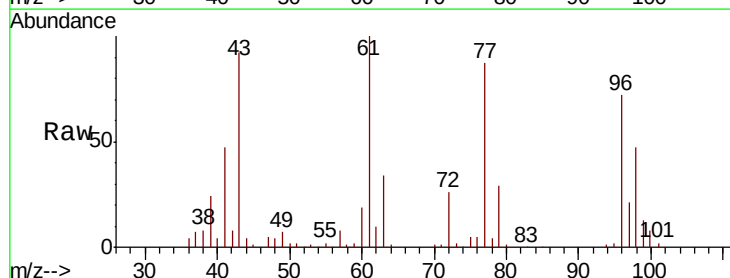
Tgt Ion: 96 Resp: 144532

Ion Ratio Lower Upper

96 100

61 140.2 110.0 165.0

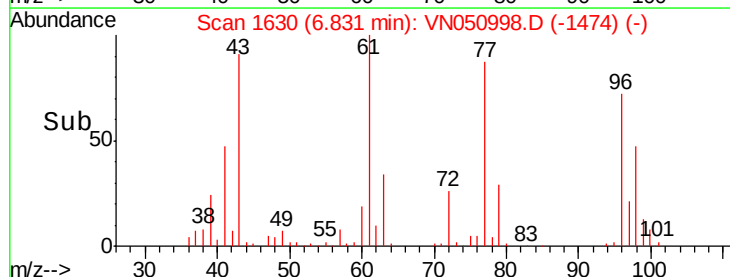
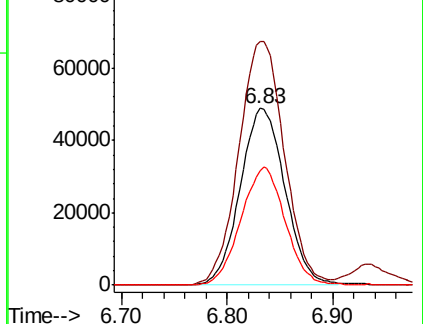
98 65.6 51.7 77.5

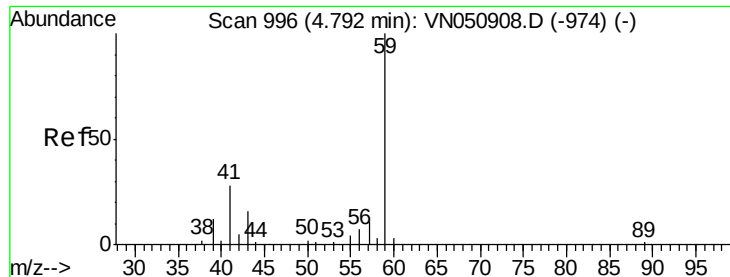


Abundance Ion 96.00 (95.70 to 96.70): VN050998.D (-1609) (-)

Ion 61.00 (60.70 to 61.70): VN050998.D (-1609) (-)

Ion 98.00 (97.70 to 98.70): VN050998.D (-1609) (-)





#23

tert-Butyl Alcohol

Concen: 71.44 ug/l

RT: 4.79 min Scan# 995

Delta R.T. -0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

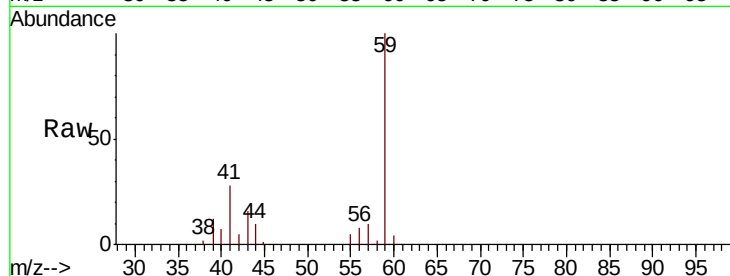
VN0831WBS02

Tot Ion: 59 Resp: 37414

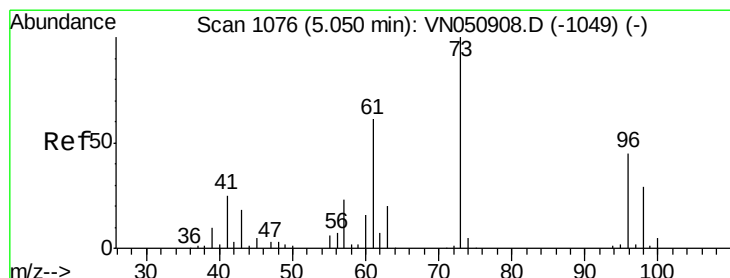
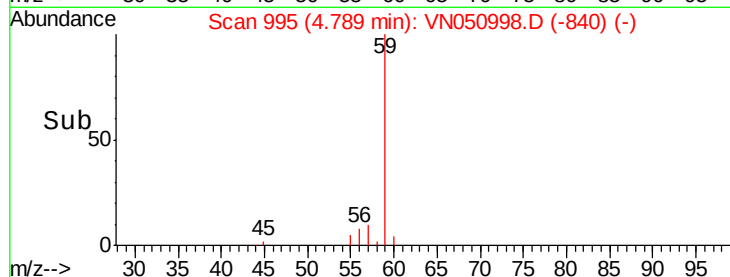
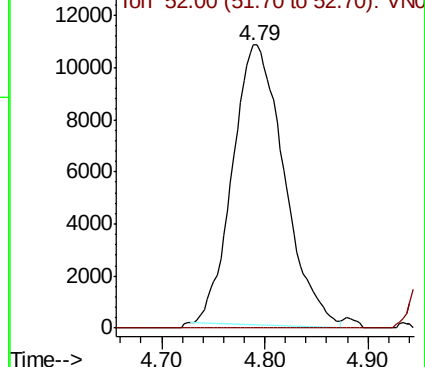
Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN050908.D (-974) (-)



#24

Methyl tert-Butyl Ether

Concen: 18.20 ug/l

RT: 5.05 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VN050998.D

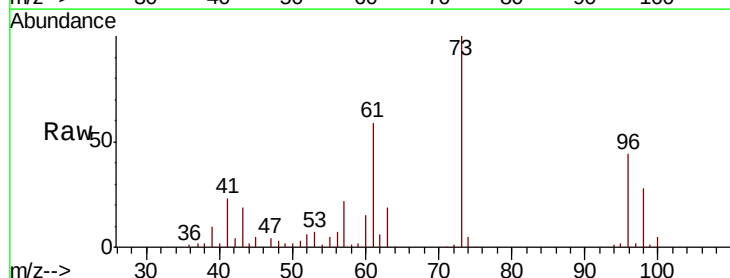
Acq: 31 Aug 2018 19:45

Tgt Ion: 73 Resp: 313570

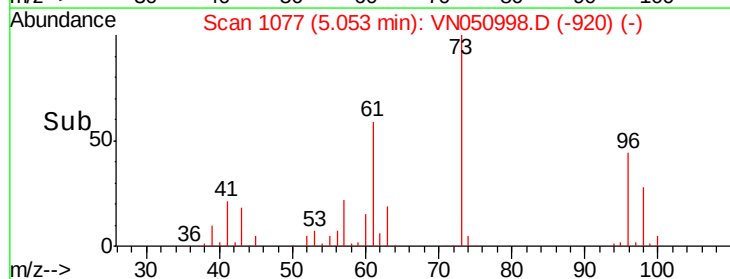
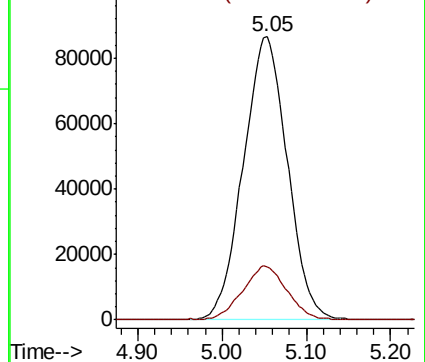
Ion Ratio Lower Upper

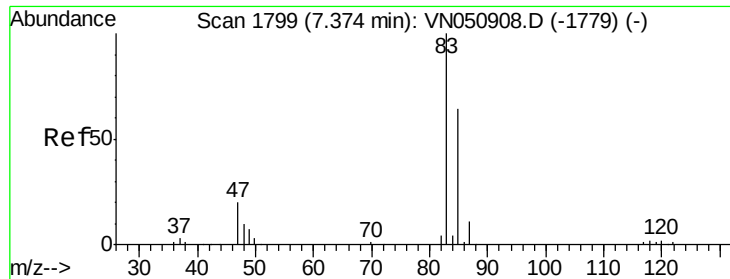
73 100

43 18.9 14.4 21.6



Abundance Ion 73.00 (72.70 to 73.70): VN050908.D (-1049) (-)

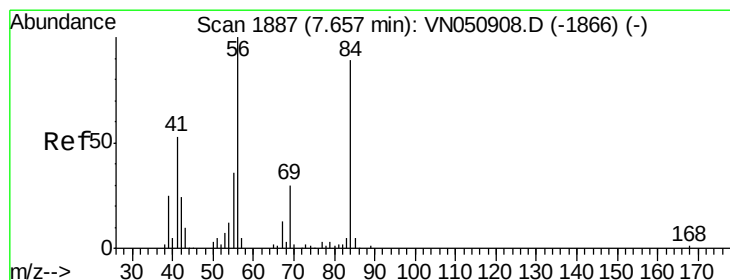
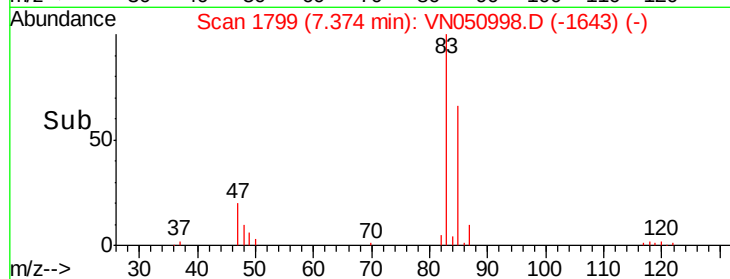
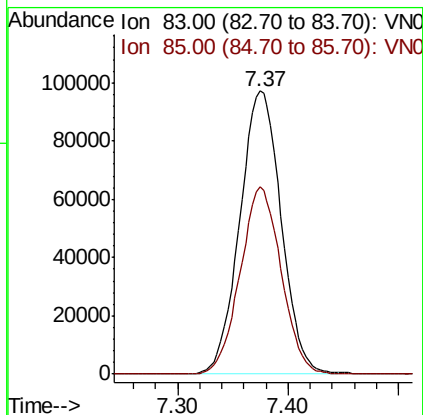
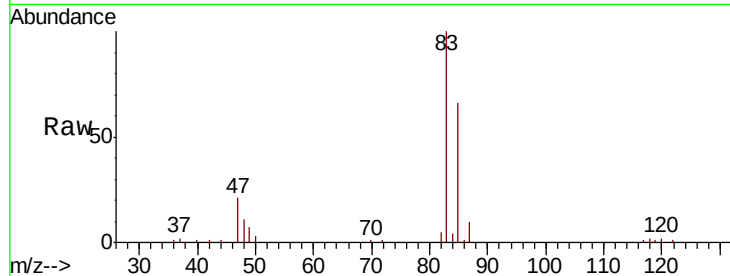




#25
Chloroform
Concen: 20.05 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

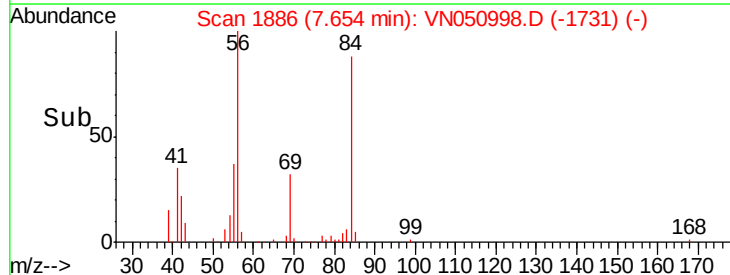
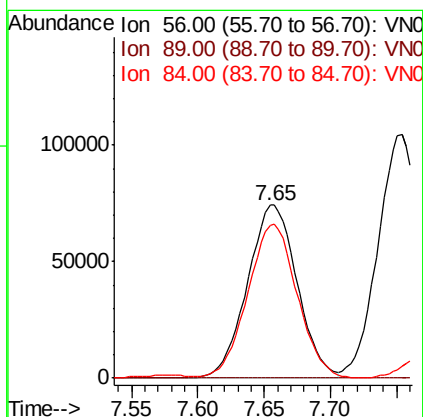
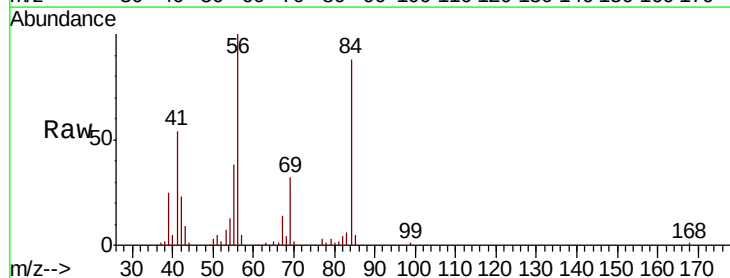
Instrument :
MSVOA_N
ClientSampled :
VN0831WBS02

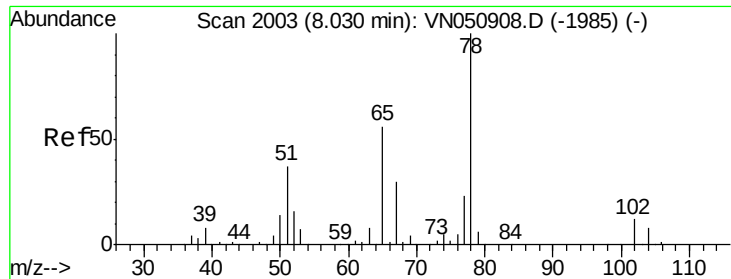
Tot Ion: 83 Resp: 252435
Ion Ratio Lower Upper
83 100
85 66.1 51.4 77.0



#26
Cyclohexane
Concen: 18.57 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 56 Resp: 194075
Ion Ratio Lower Upper
56 100
89 0.0 0.4 0.6#
84 88.8 70.4 105.6

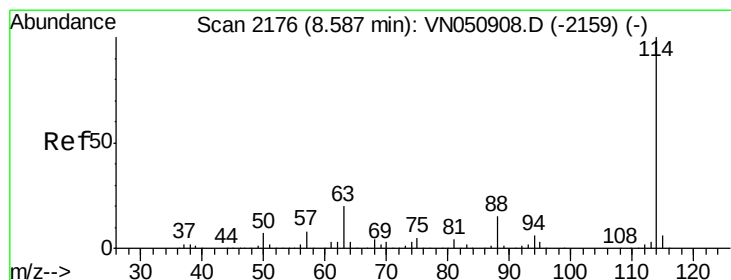
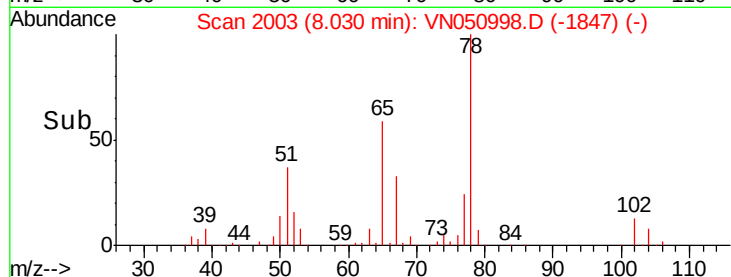
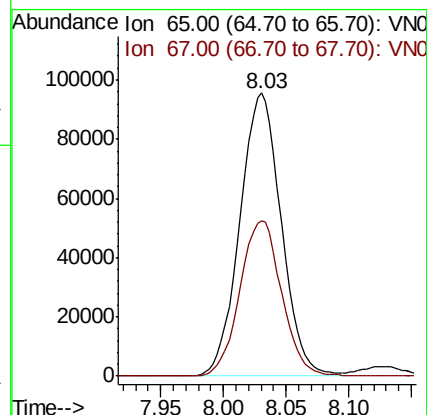
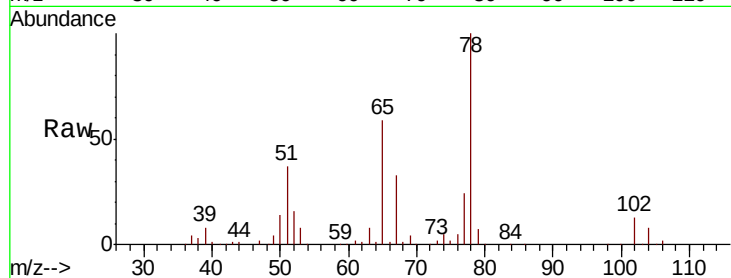




#27
 1,2-Dichloroethane-d4
 Concen: 29.51 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

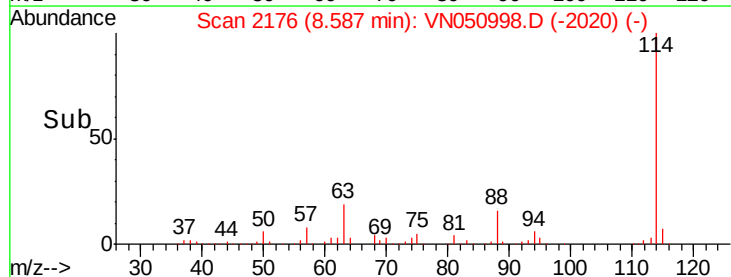
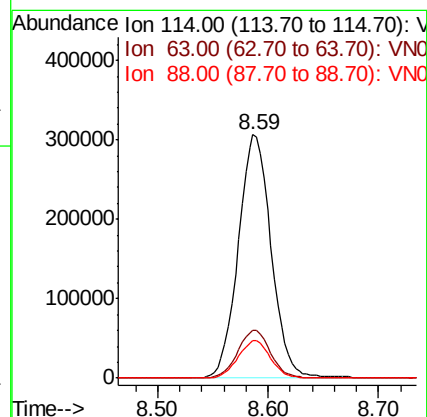
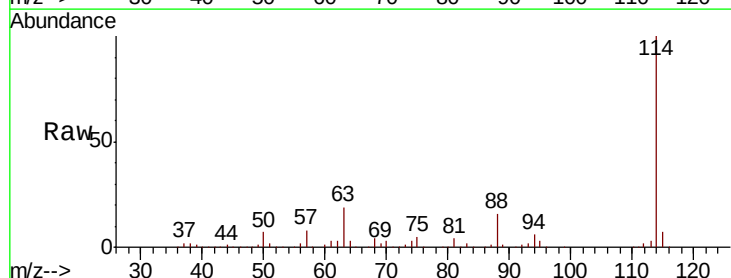
Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBS02

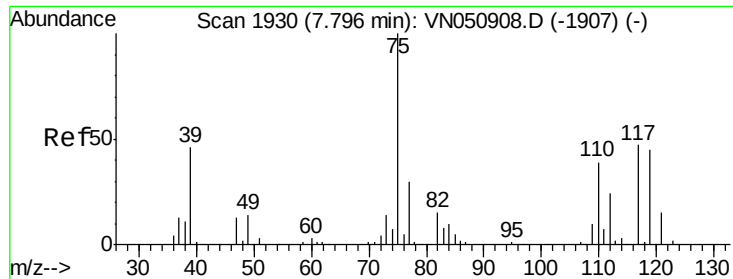
Tot Ion: 65 Resp: 219538
 Ion Ratio Lower Upper
 65 100
 67 55.3 43.7 65.5



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 114 Resp: 632642
 Ion Ratio Lower Upper
 114 100
 63 19.5 15.6 23.4
 88 15.4 12.2 18.4

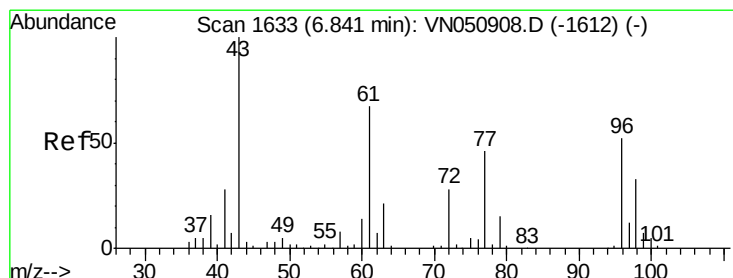
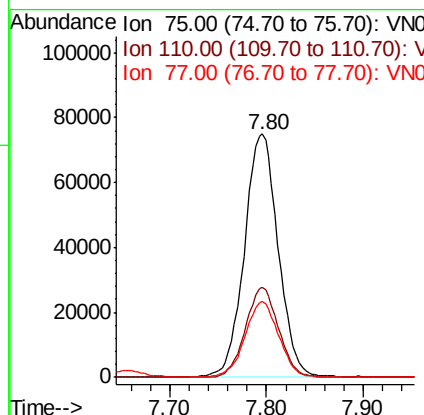
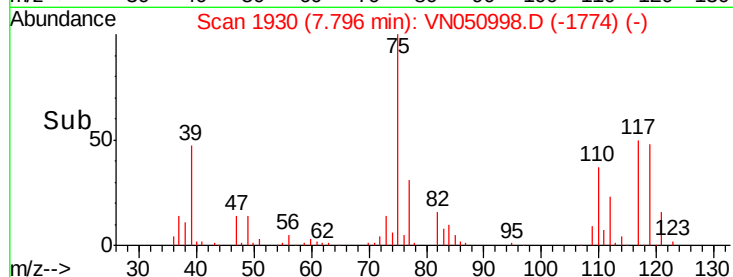
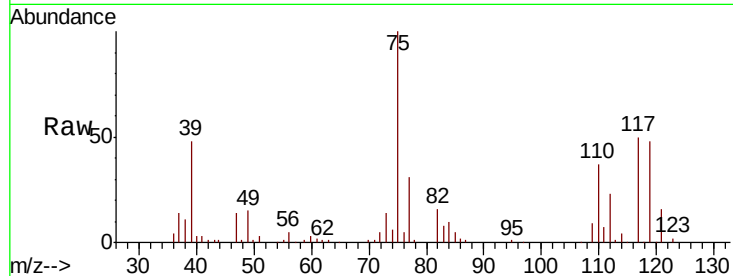




#29
 1,1-Dichloropropene
 Concen: 19.20 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

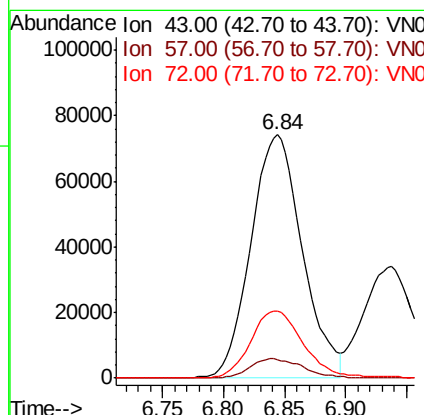
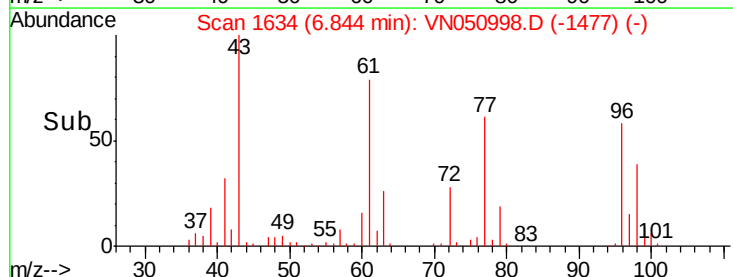
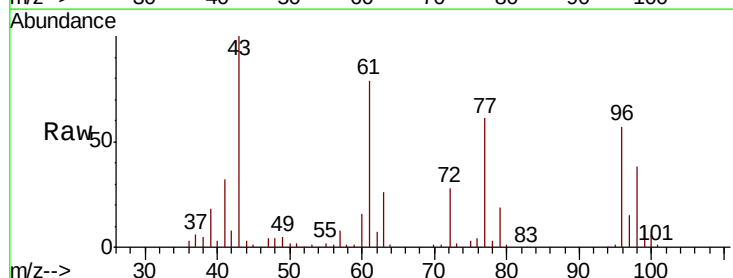
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

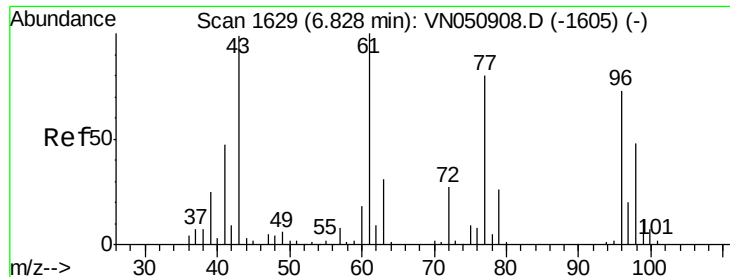
Tot Ion: 75 Resp: 181890
 Ion Ratio Lower Upper
 75 100
 110 36.2 0.0 75.0
 77 31.2 0.0 60.6



#30
 2-Butanone
 Concen: 74.02 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 43 Resp: 215660
 Ion Ratio Lower Upper
 43 100
 57 8.3 6.9 10.3
 72 28.4 22.8 34.2

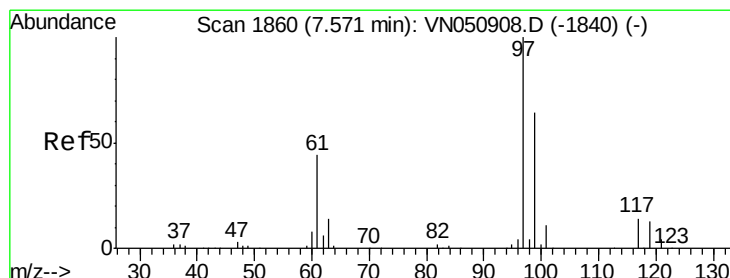
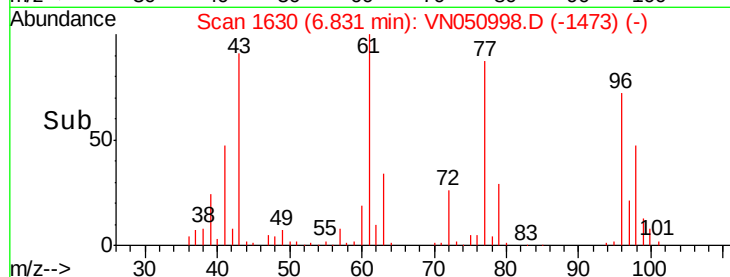
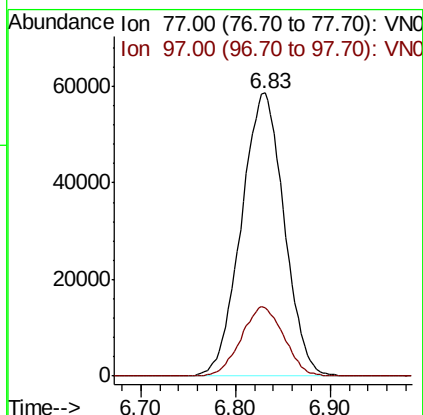
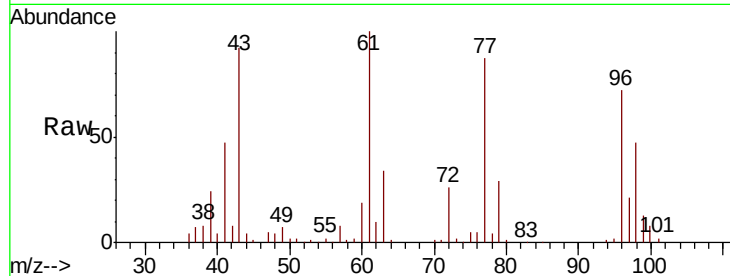




#31
 2,2-Dichloropropane
 Concen: 19.99 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

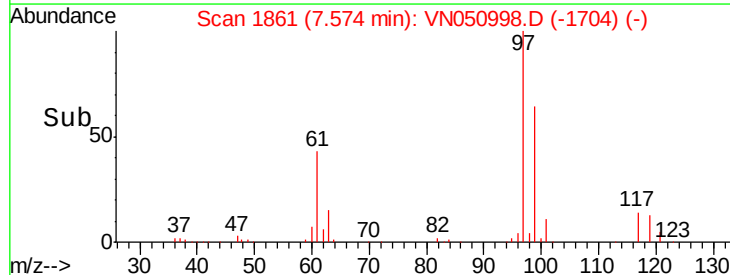
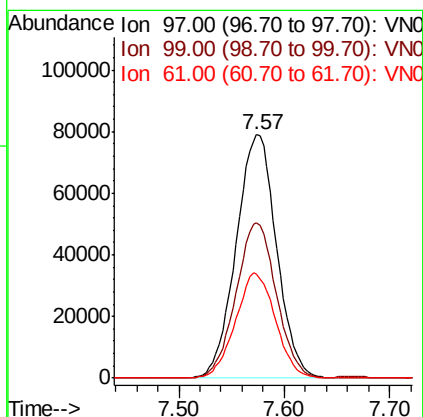
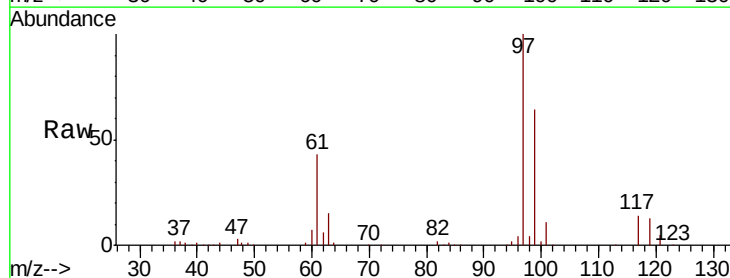
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

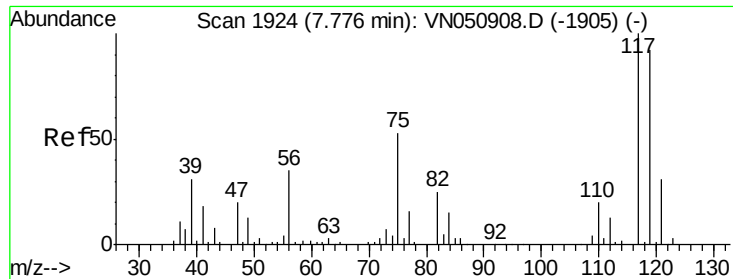
Tot Ion: 77 Resp: 184268
 Ion Ratio Lower Upper
 77 100
 97 24.5 20.2 30.2



#32
 1,1,1-Trichloroethane
 Concen: 19.58 ug/l
 RT: 7.57 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 97 Resp: 210300
 Ion Ratio Lower Upper
 97 100
 99 63.8 52.0 78.0
 61 42.8 35.0 52.6

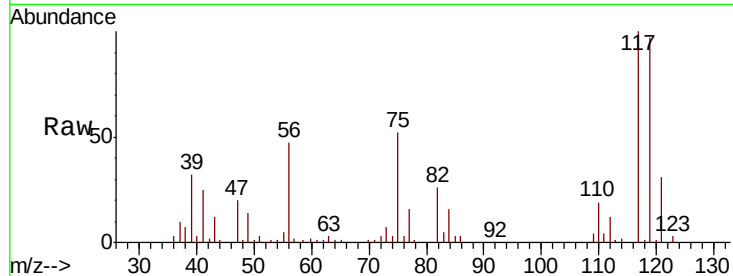




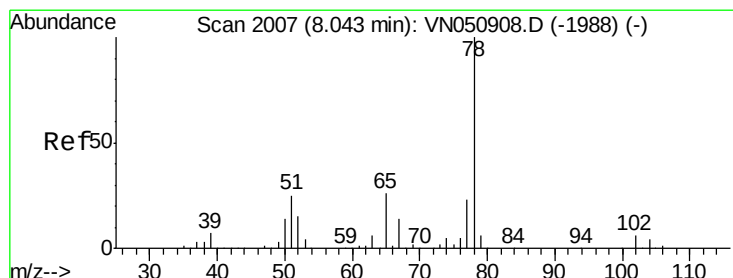
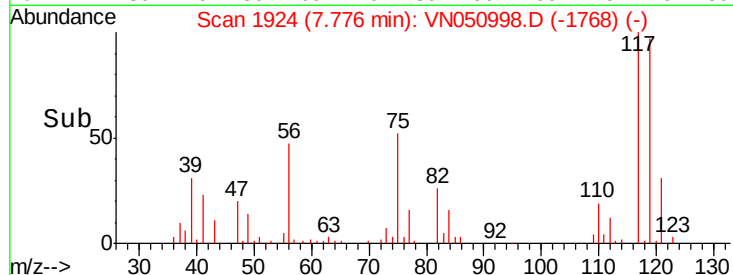
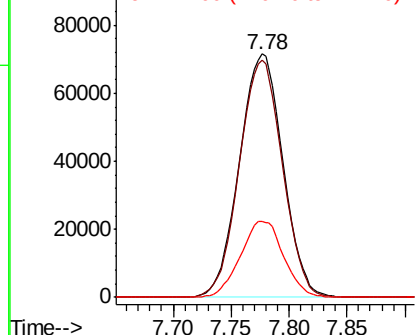
#33
Carbon Tetrachloride
Concen: 19.28 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS02

Tot Ion:117 Resp: 186526
Ion Ratio Lower Upper
117 100
119 97.4 73.5 110.3
121 31.2 24.6 37.0

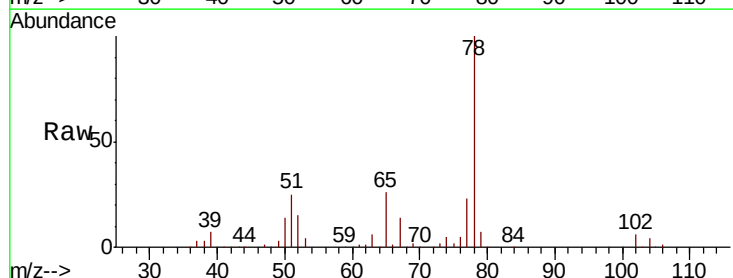


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

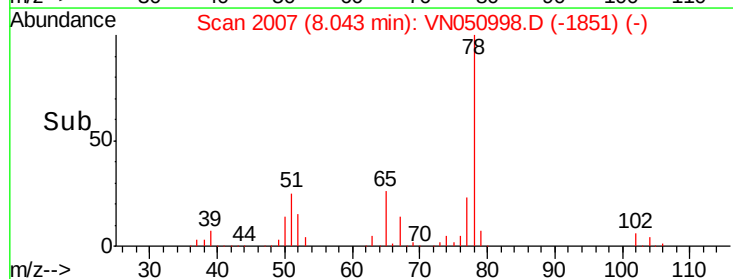
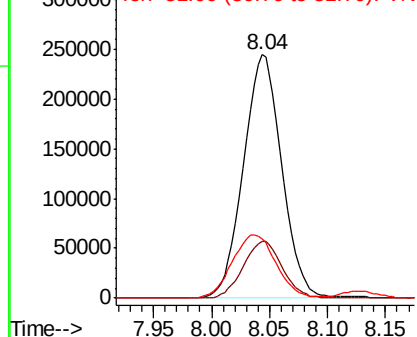


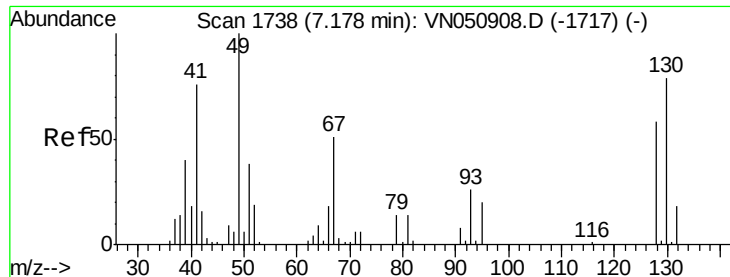
#34
Benzene
Concen: 19.24 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 78 Resp: 563681
Ion Ratio Lower Upper
78 100
77 23.3 18.6 28.0
51 24.4 20.0 30.0



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

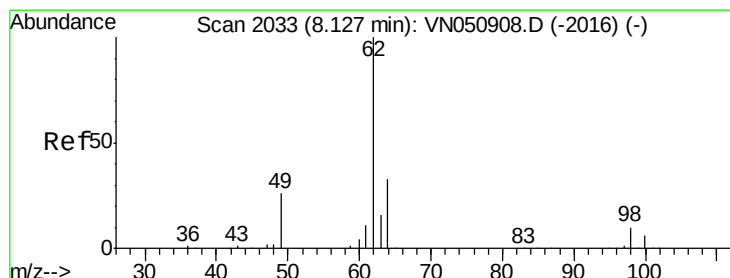
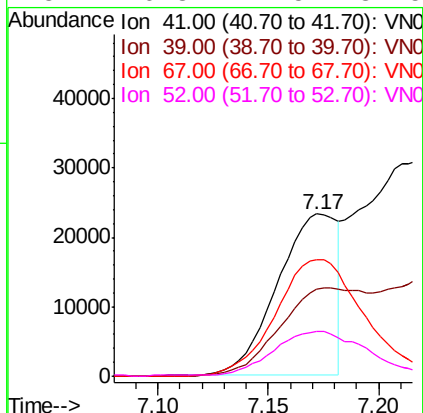
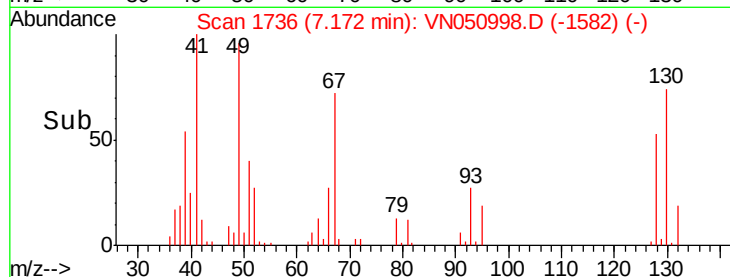
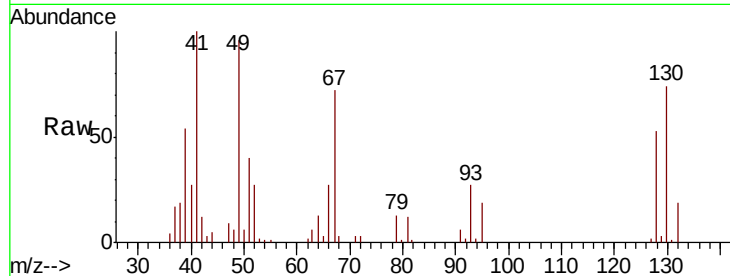




#35
Methacrylonitrile
Concen: 13.68 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.01 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

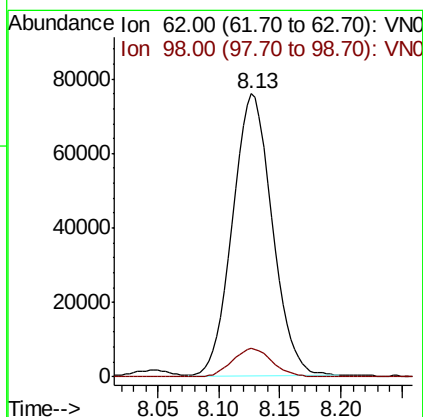
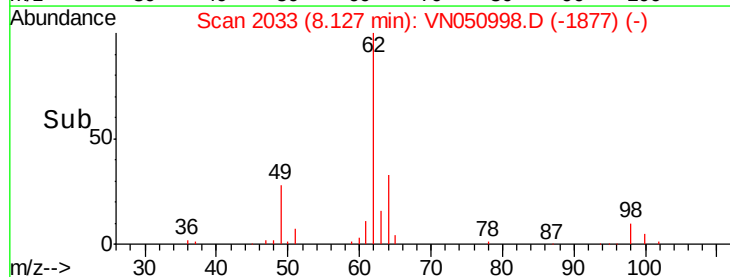
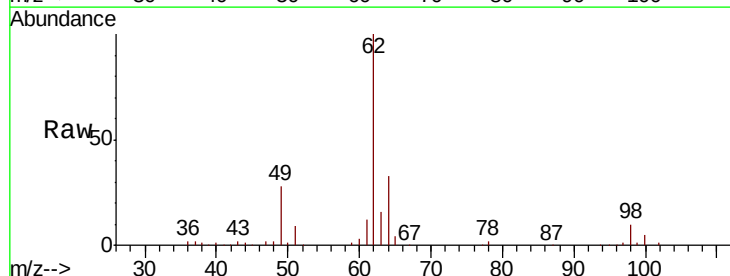
Instrument :
MSVOA_N
ClientSampled :
VN0831WBS02

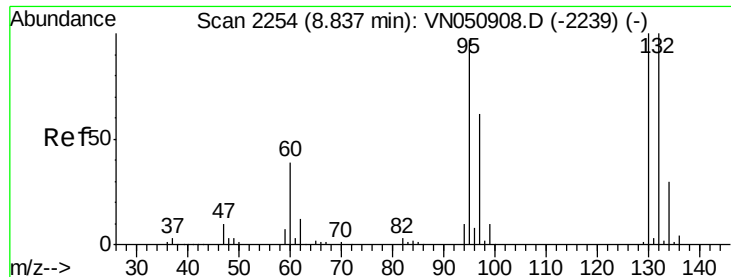
Tot Ion: 41 Resp: 43673
Ion Ratio Lower Upper
41 100
39 54.2 26.2 78.5
67 72.8 33.9 101.6
52 26.8 12.5 37.5



#36
1,2-Dichloroethane
Concen: 19.31 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 62 Resp: 171097
Ion Ratio Lower Upper
62 100
98 10.1 8.0 12.0





#37

Trichloroethene

Concen: 19.41 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

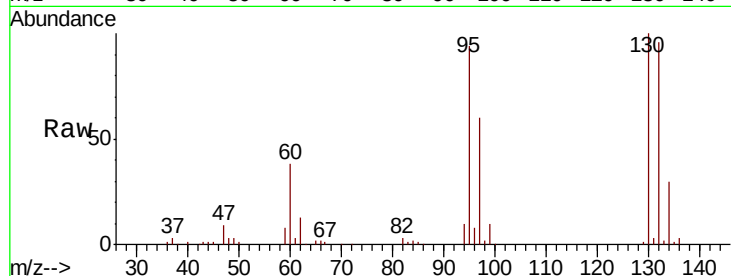
VN0831WBS02

Tot Ion:130 Resp: 148665

Ion Ratio Lower Upper

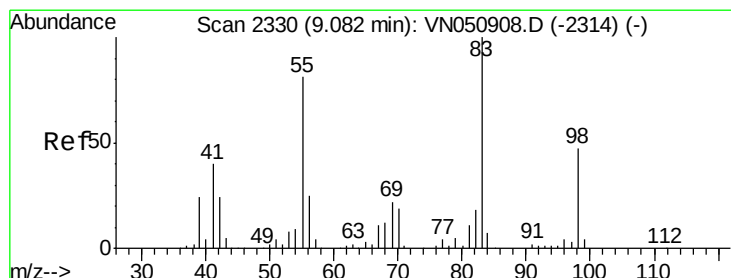
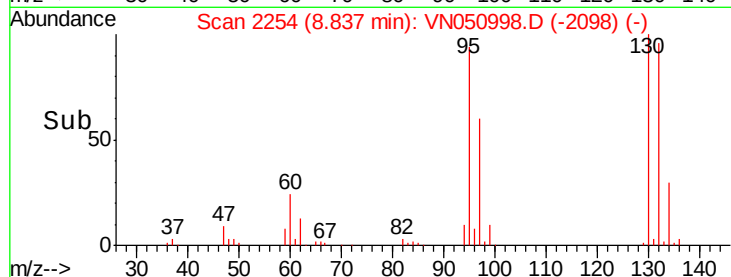
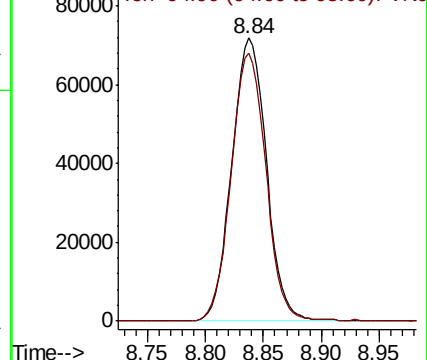
130 100

95 94.5 77.4 116.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 18.15 ug/l

RT: 9.08 min Scan# 2331

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

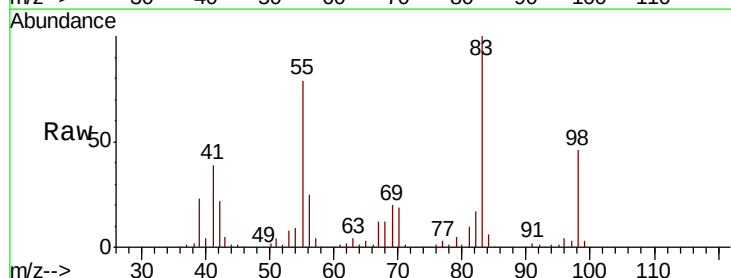
Tgt Ion: 83 Resp: 184608

Ion Ratio Lower Upper

83 100

55 78.5 38.9 116.7

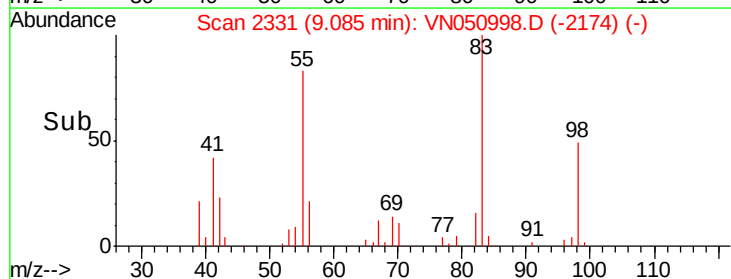
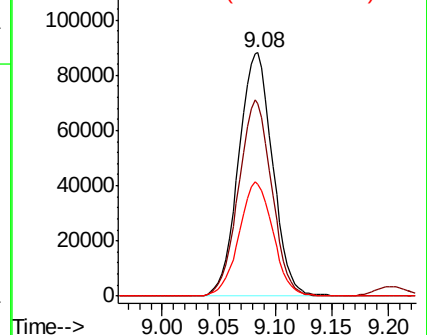
98 46.7 22.9 68.7

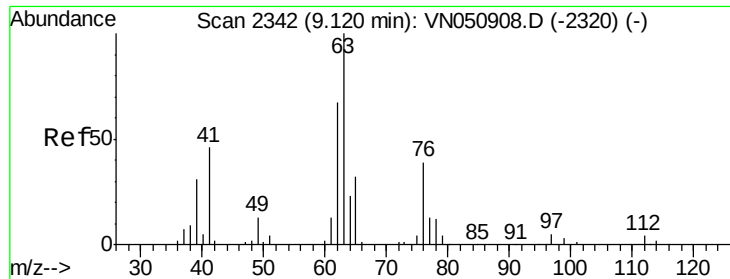


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 19.72 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

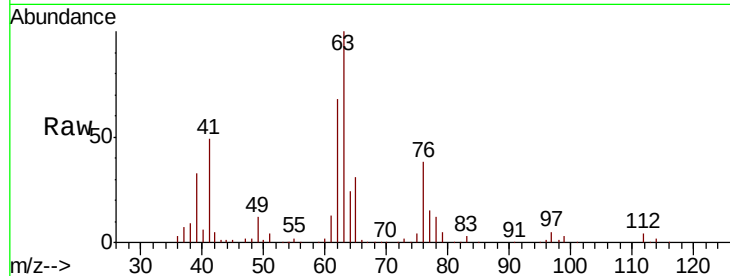
VN0831WBS02

Tot Ion: 63 Resp: 150935

Ion Ratio Lower Upper

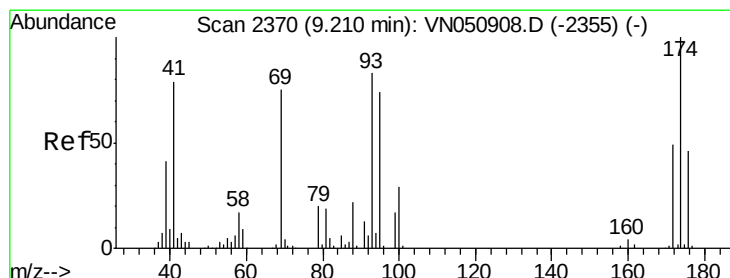
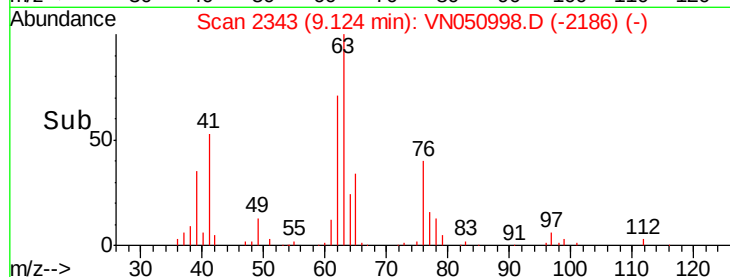
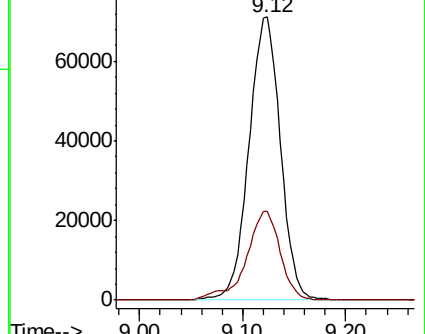
63 100

65 31.3 25.6 38.4



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 18.75 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

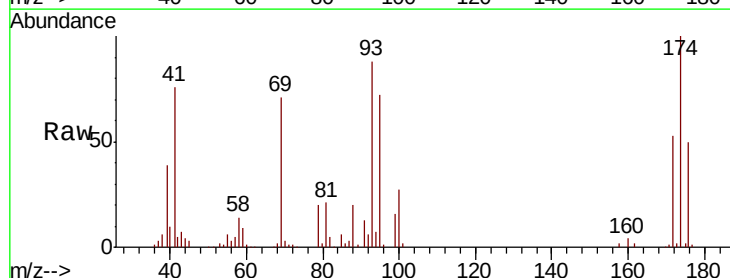
Tgt Ion: 93 Resp: 86417

Ion Ratio Lower Upper

93 100

95 85.1 0.0 173.4

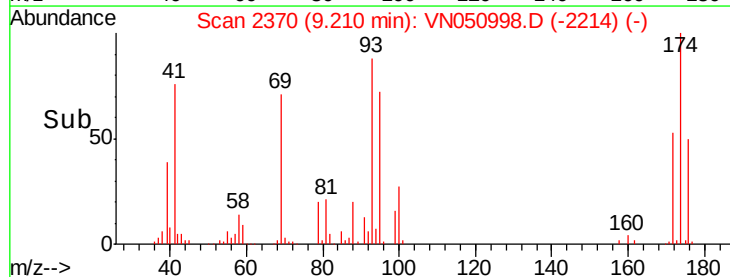
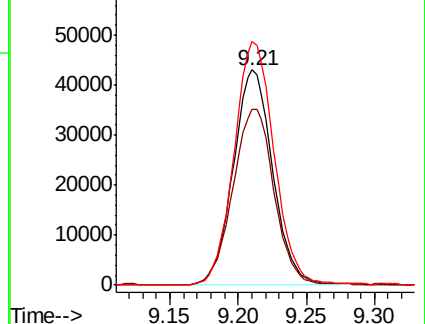
174 115.2 0.0 234.8

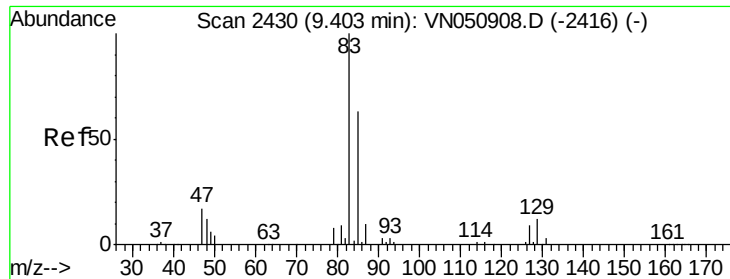


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 19.29 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

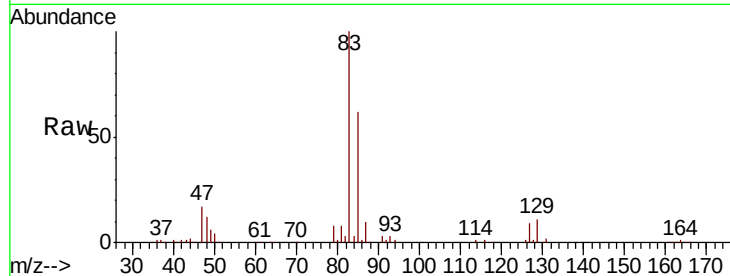
Tot Ion: 83 Resp: 187434

Ion Ratio Lower Upper

83 100

85 62.4 50.6 76.0

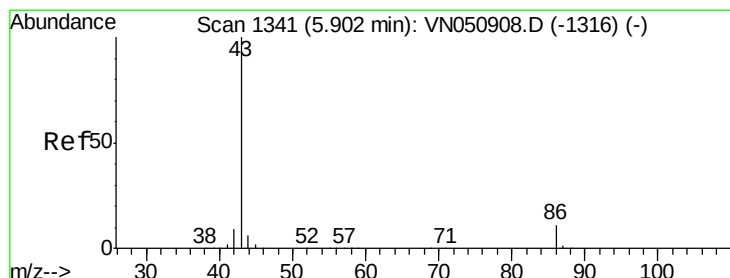
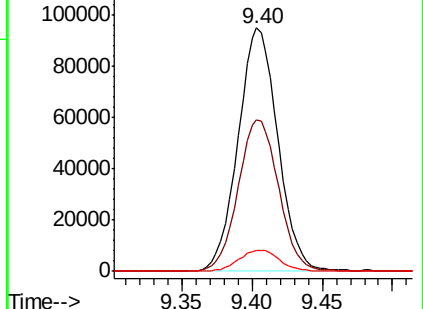
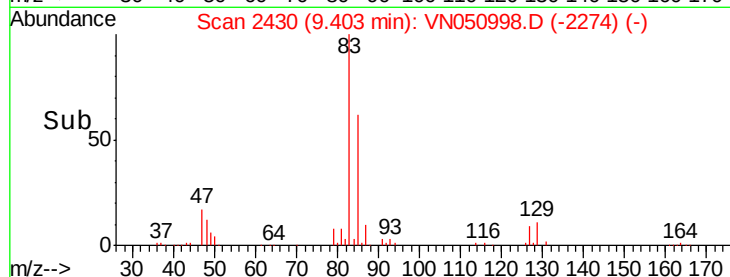
127 8.6 7.1 10.7



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 85.54 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050998.D

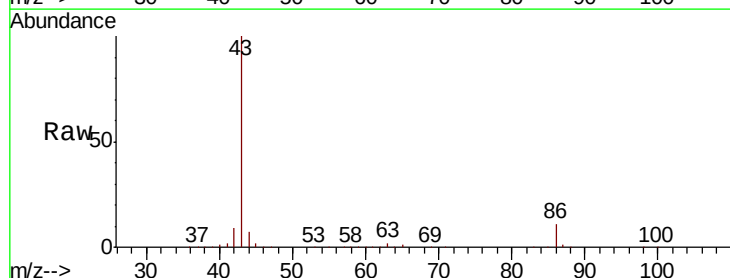
Acq: 31 Aug 2018 19:45

Tgt Ion: 43 Resp: 1147964

Ion Ratio Lower Upper

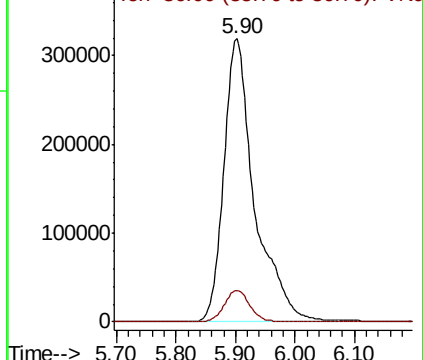
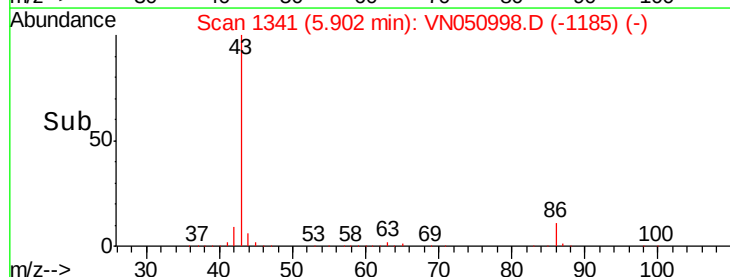
43 100

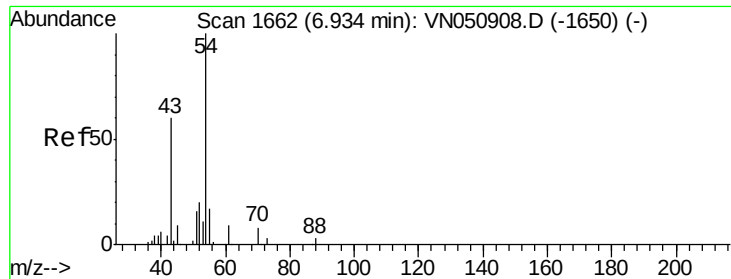
86 9.2 7.2 10.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

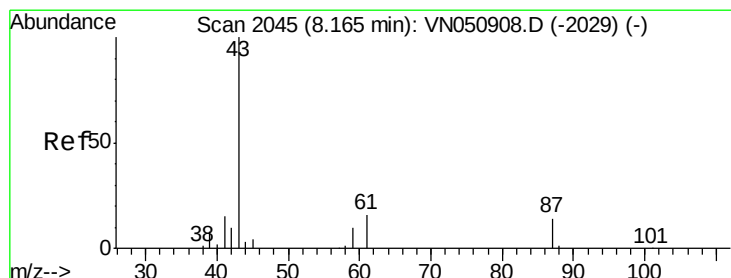
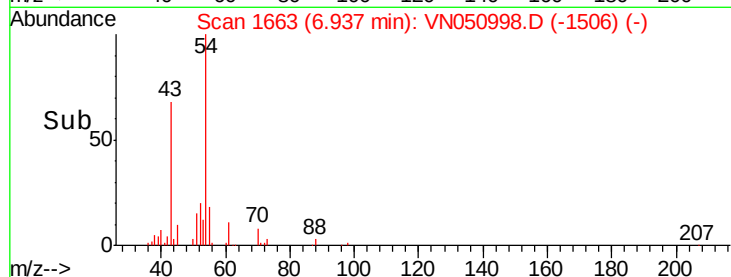
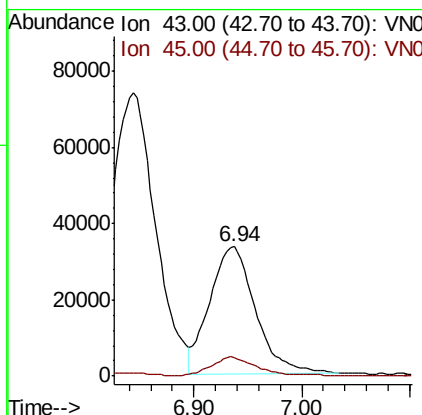
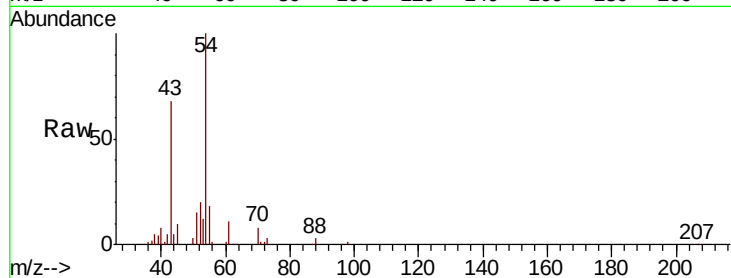




#43
Ethyl Acetate
Concen: 16.48 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

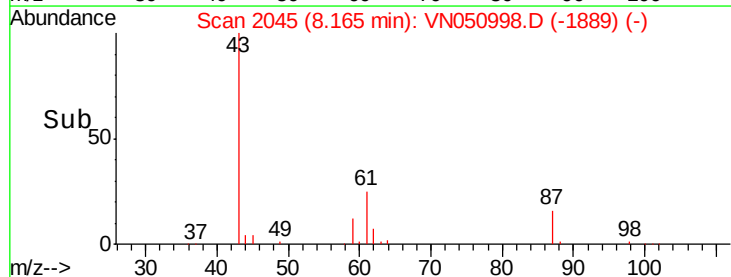
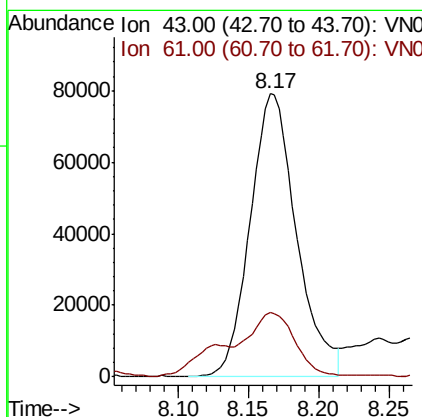
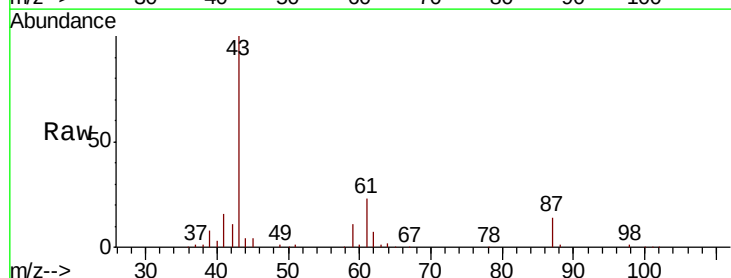
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS02

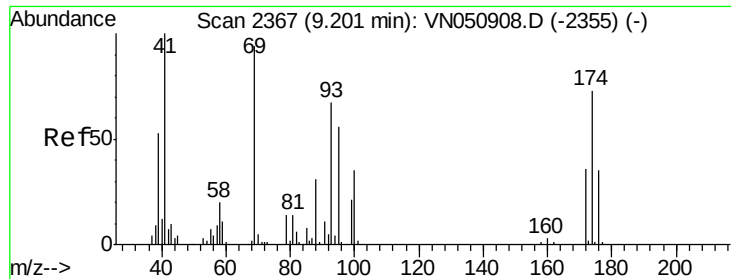
Tot Ion: 43 Resp: 98373
Ion Ratio Lower Upper
43 100
45 13.3 10.2 15.2



#44
Isopropyl Acetate
Concen: 17.21 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 43 Resp: 181224
Ion Ratio Lower Upper
43 100
61 19.5 16.3 24.5

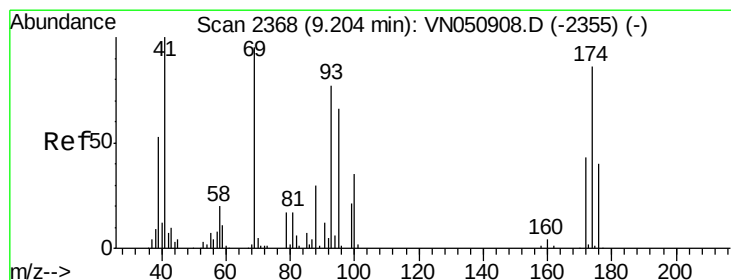
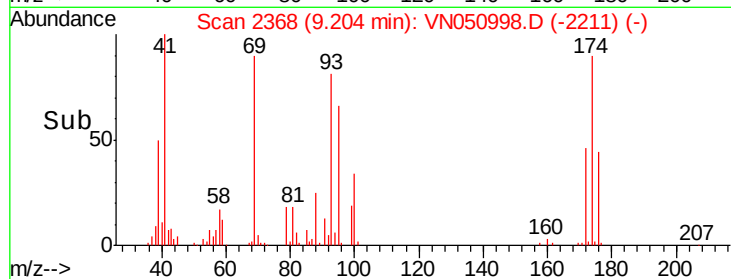
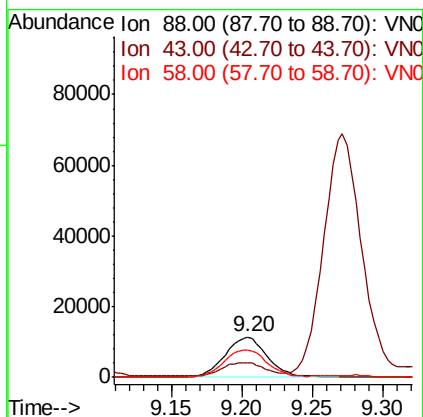
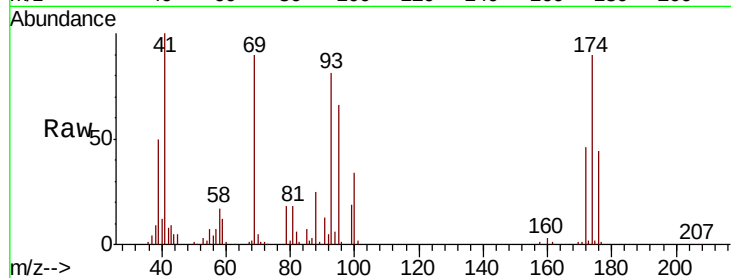




#45
 1,4-Dioxane
 Concen: 305.81 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

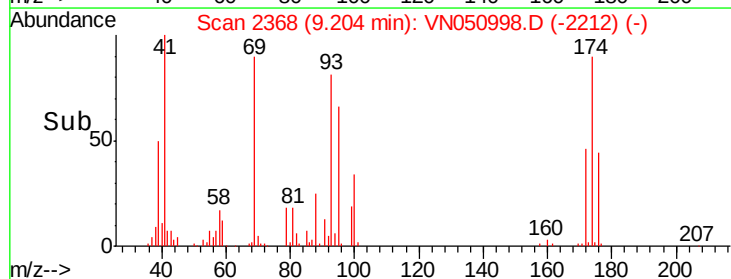
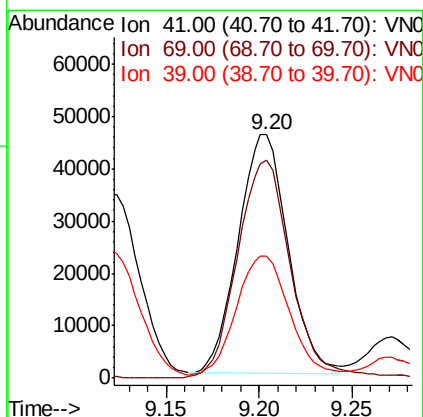
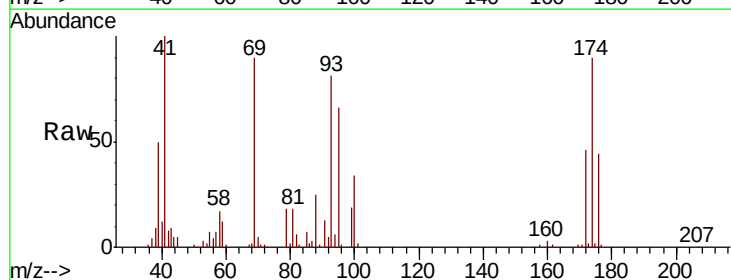
Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBS02

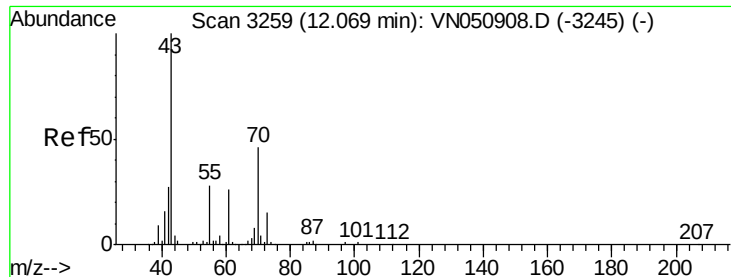
Tot Ion: 88 Resp: 23926
 Ion Ratio Lower Upper
 88 100
 43 34.2 23.5 35.3
 58 70.5 55.2 82.8



#46
 Methyl methacrylate
 Concen: 16.10 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 41 Resp: 84931
 Ion Ratio Lower Upper
 41 100
 69 91.3 47.4 142.2
 39 50.1 26.6 79.7





#47

n-amyl Acetate

Concen: 14.27 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

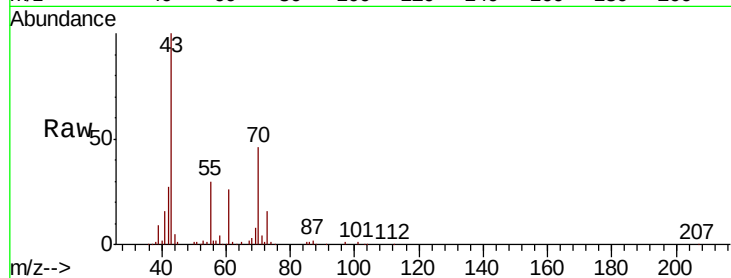
VN0831WBS02

Tot Ion: 43 Resp: 120807

Ion Ratio Lower Upper

43 100

55 29.7 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

80000

60000

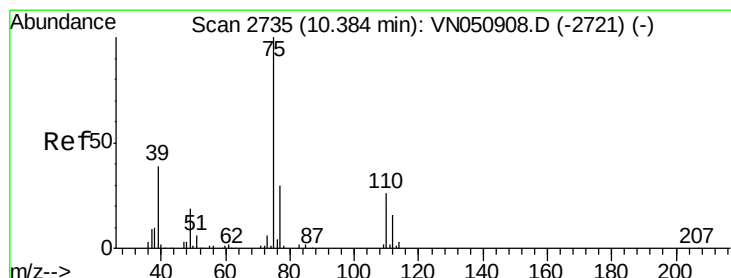
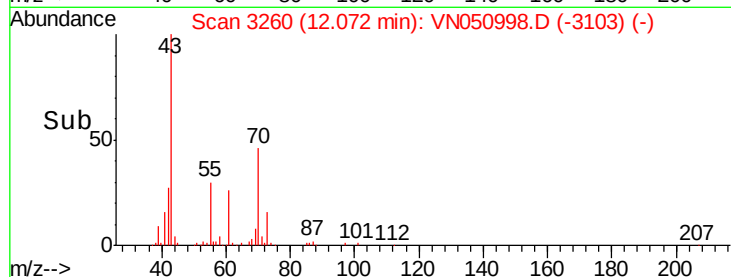
40000

20000

0

Time-->

12.00 12.05 12.10 12.15



#48

t-1,3-Dichloropropene

Concen: 17.76 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050998.D

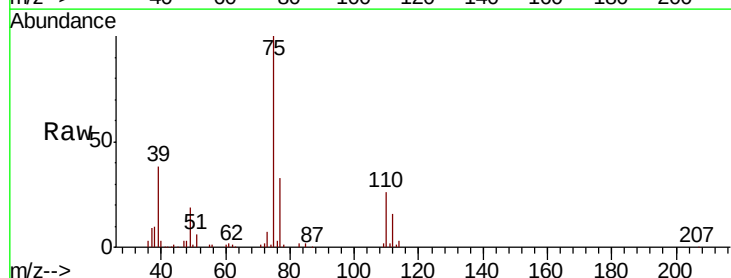
Acq: 31 Aug 2018 19:45

Tgt Ion: 75 Resp: 169200

Ion Ratio Lower Upper

75 100

77 32.0 24.8 37.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

100000

80000

60000

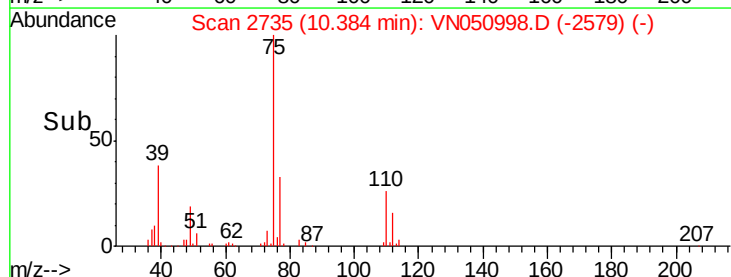
40000

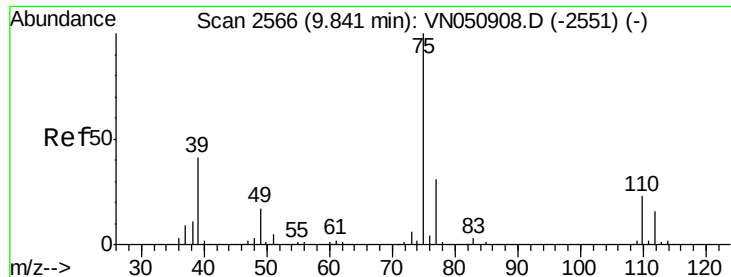
20000

0

Time-->

10.30 10.40



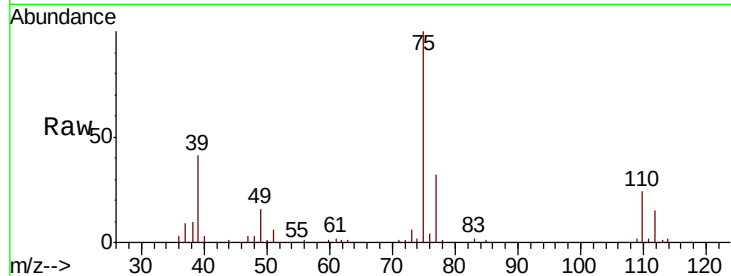


#49

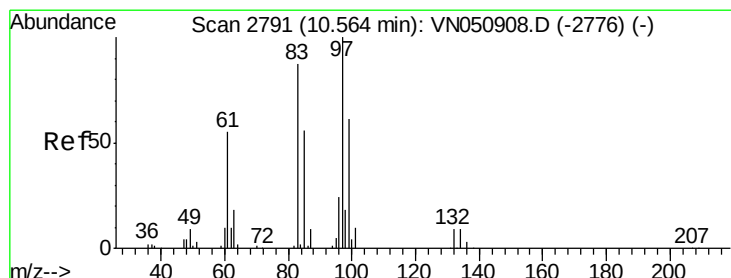
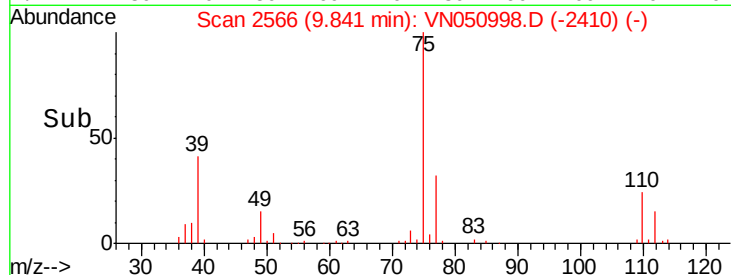
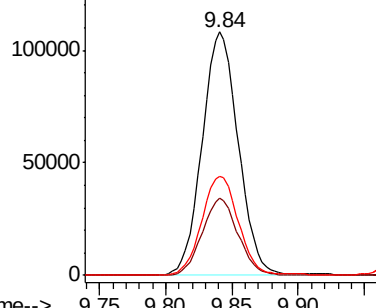
cis-1,3-Dichloropropene
 Concen: 18.75 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

Tot Ion:	75	Resp:	205170
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
39	40.7	32.9	49.3



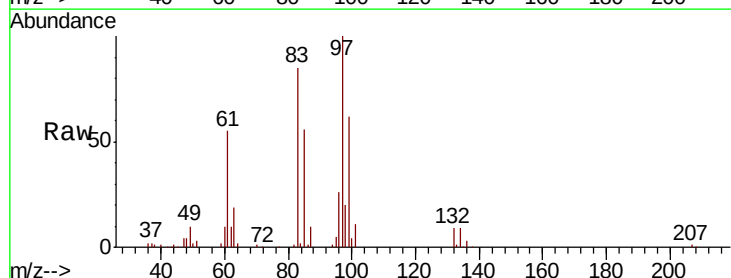
Abundance Ion 75.00 (74.70 to 75.70): VN0
 Ion 77.00 (76.70 to 77.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0



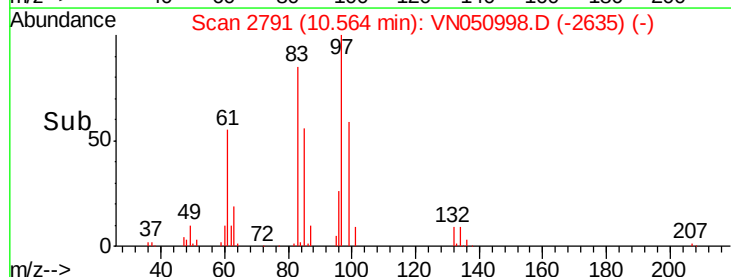
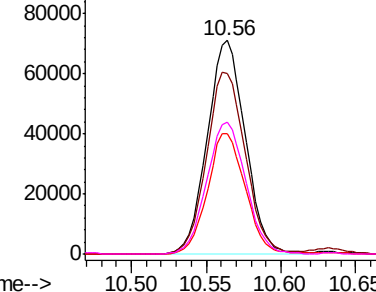
#50

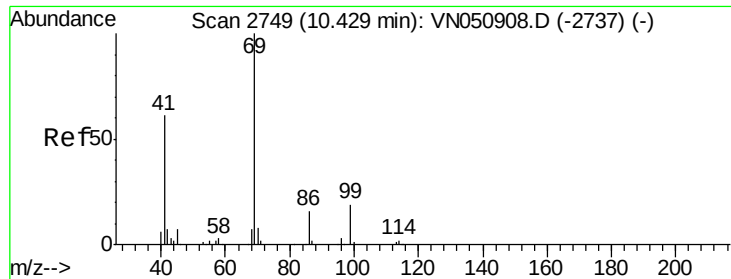
1,1,2-Trichloroethane
 Concen: 18.82 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion:	97	Resp:	126053
Ion	Ratio	Lower	Upper
97	100		
83	84.7	69.8	104.6
85	56.3	45.0	67.6
99	61.8	49.1	73.7



Abundance Ion 97.00 (96.70 to 97.70): VN0
 Ion 82.95 (82.65 to 83.65): VN0
 Ion 84.95 (84.65 to 85.65): VN0
 Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 16.16 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS02

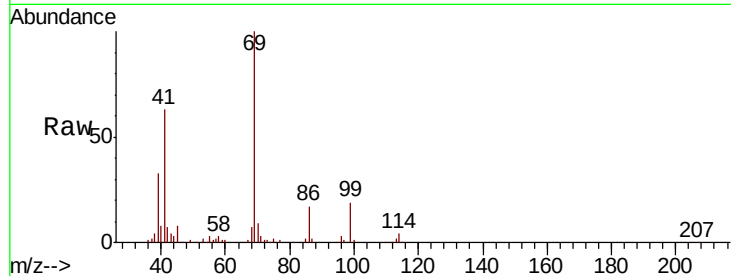
Tot Ion: 69 Resp: 132391

Ion Ratio Lower Upper

69 100

41 62.7 30.5 91.5

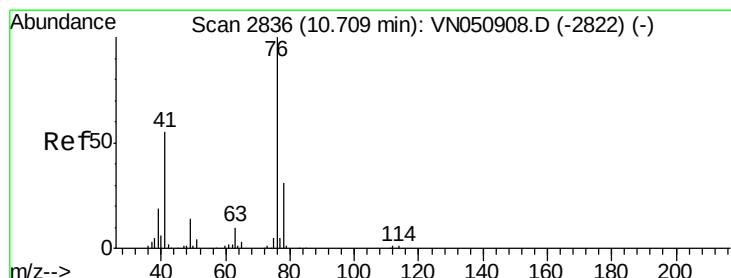
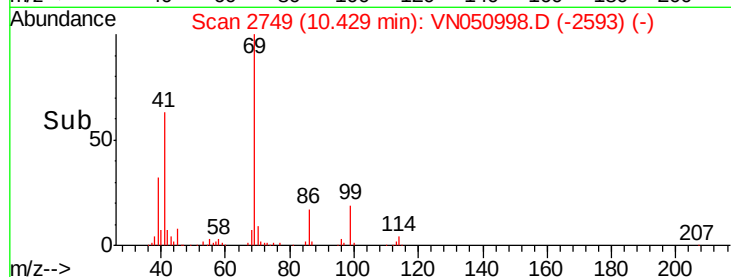
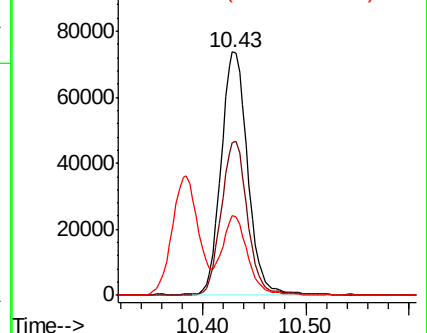
39 32.4 15.3 45.8



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 18.48 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050998.D

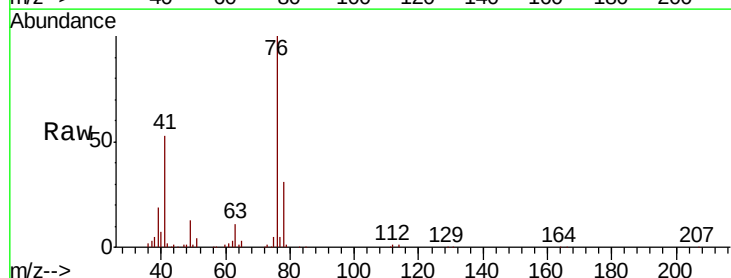
Acq: 31 Aug 2018 19:45

Tgt Ion: 76 Resp: 204987

Ion Ratio Lower Upper

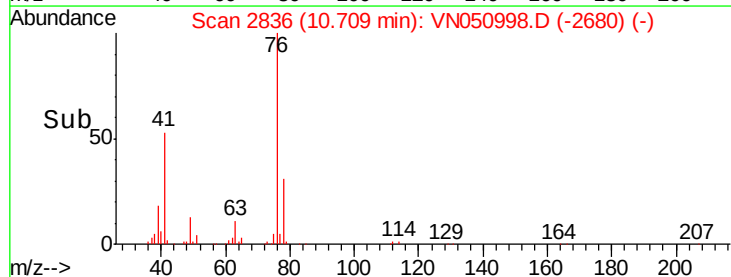
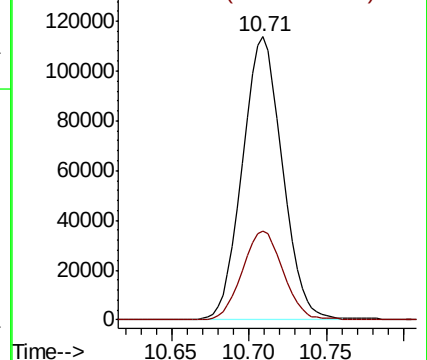
76 100

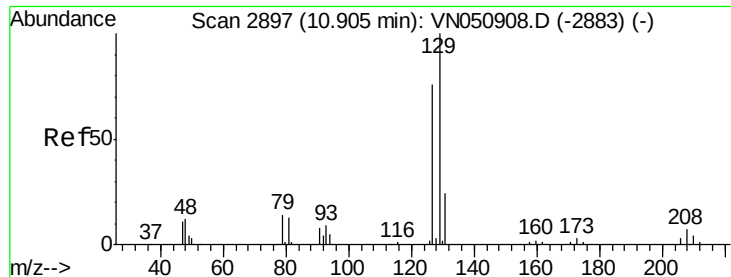
78 32.1 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 18.50 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

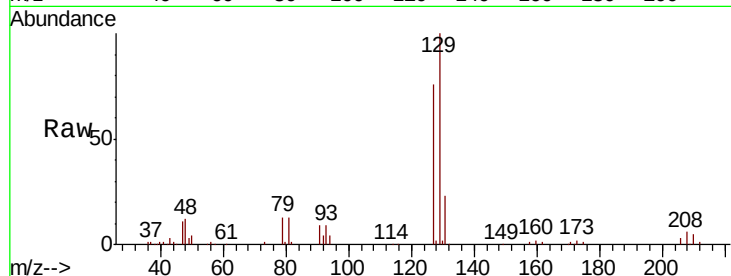
VN0831WBS02

Tot Ion:129 Resp: 140891

Ion Ratio Lower Upper

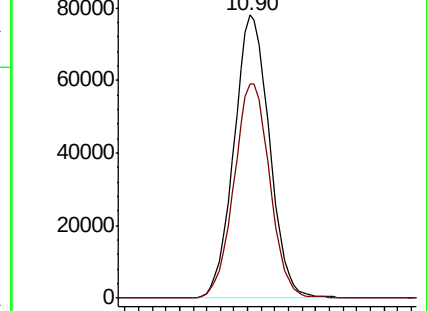
129 100

127 76.4 39.0 116.9

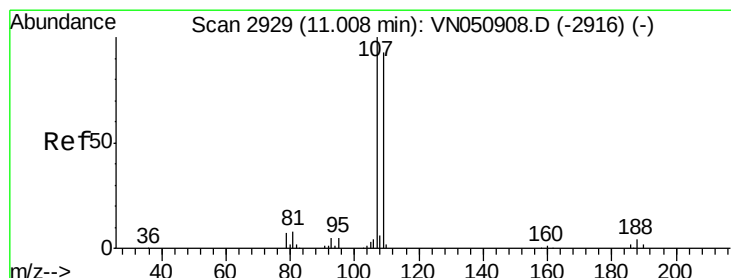
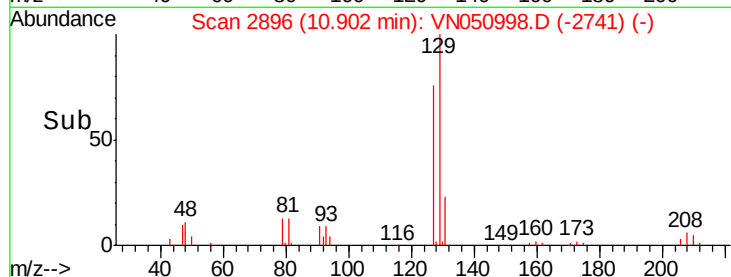


Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->



#54

1,2-Dibromoethane

Concen: 17.79 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050998.D

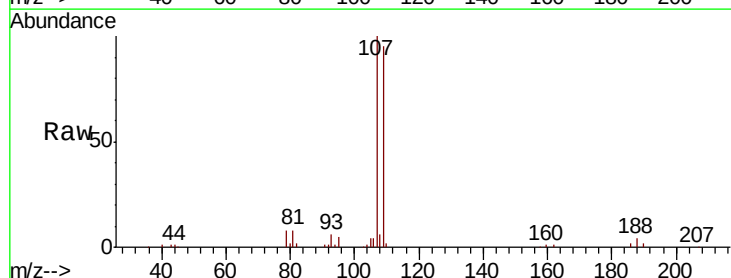
Acq: 31 Aug 2018 19:45

Tgt Ion:107 Resp: 117839

Ion Ratio Lower Upper

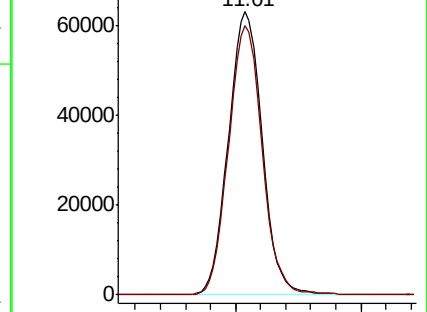
107 100

109 94.5 74.4 111.6

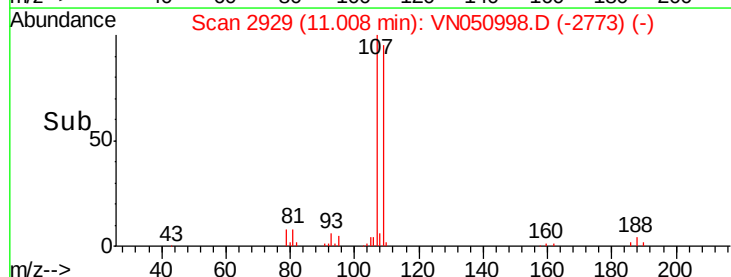


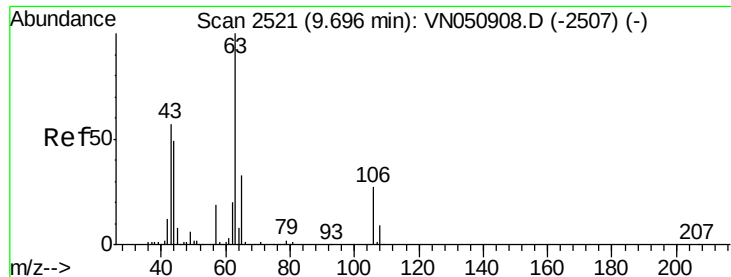
Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



Time-->

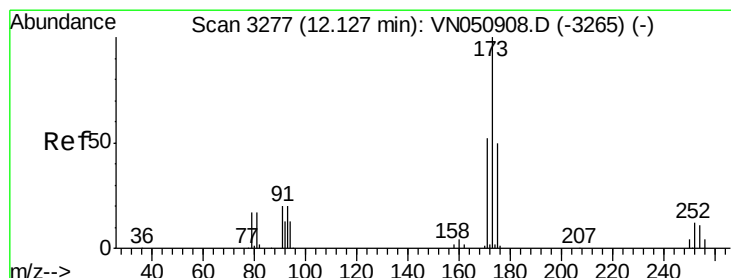
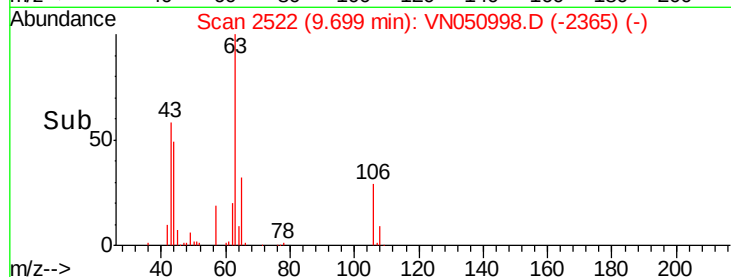
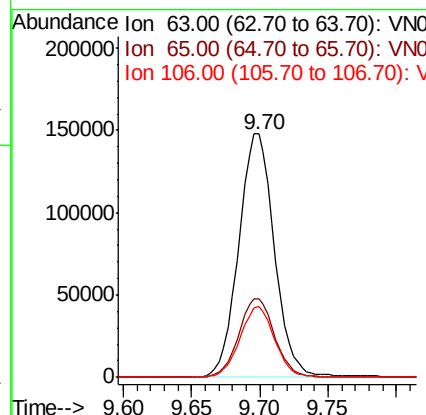
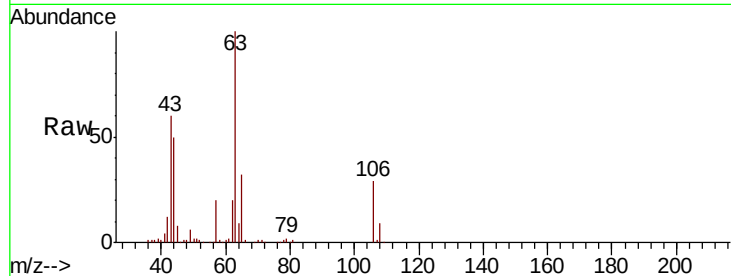




#55
 2-Chloroethyl vinyl ether
 Concen: 78.73 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

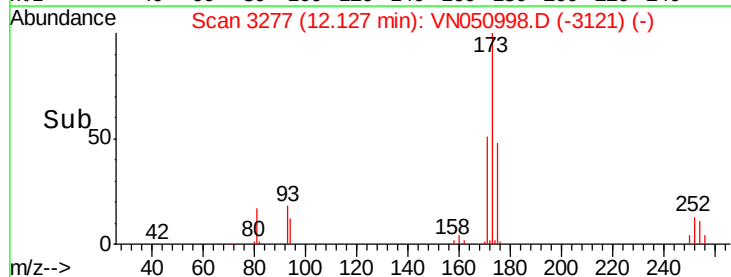
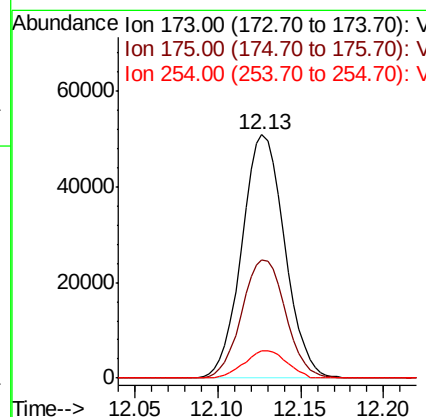
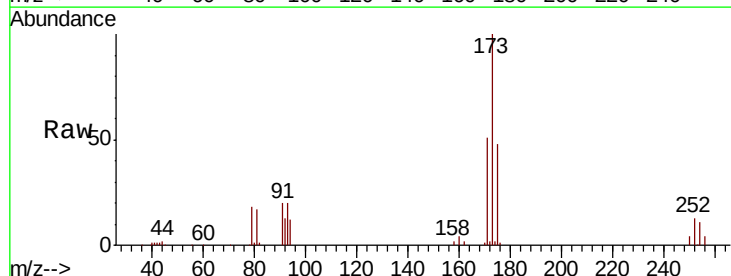
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

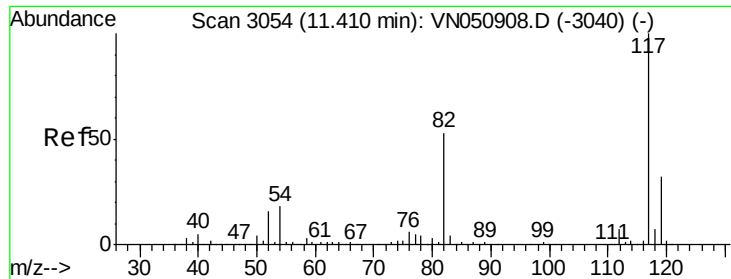
Tot Ion: 63 Resp: 268449
 Ion Ratio Lower Upper
 63 100
 65 32.5 25.4 38.2
 106 28.3 22.0 33.0



#56
 Bromoform
 Concen: 16.92 ug/l
 RT: 12.13 min Scan# 3277
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion: 173 Resp: 91661
 Ion Ratio Lower Upper
 173 100
 175 49.7 39.2 58.8
 254 11.1 9.0 13.6

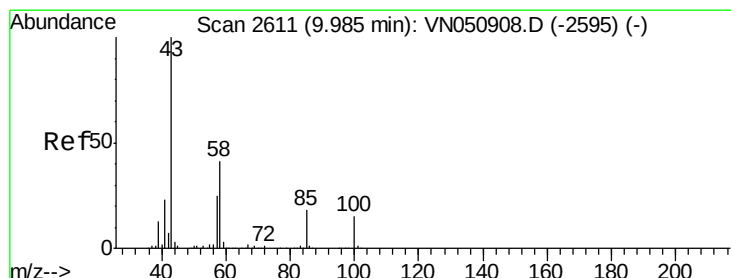
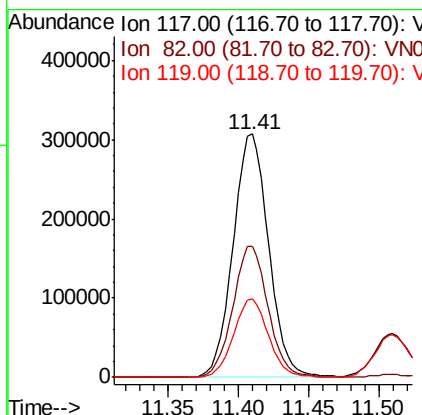
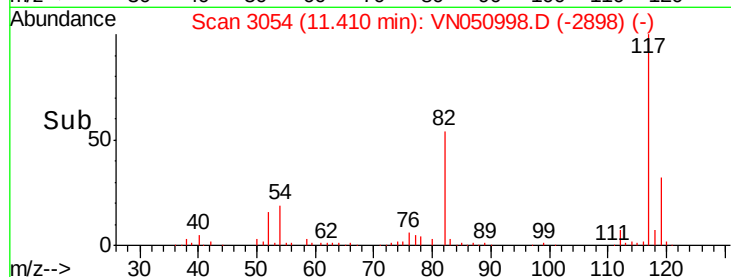
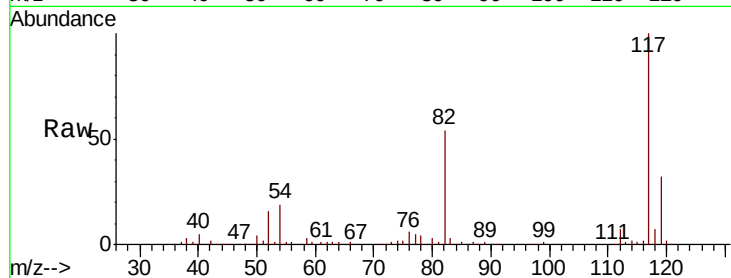




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

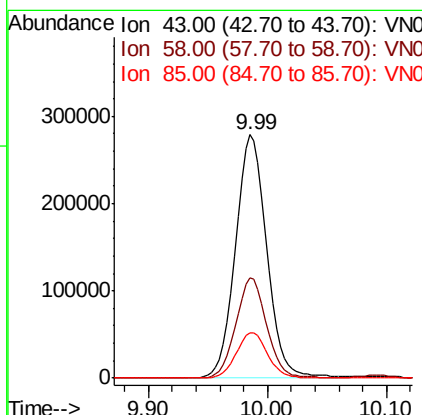
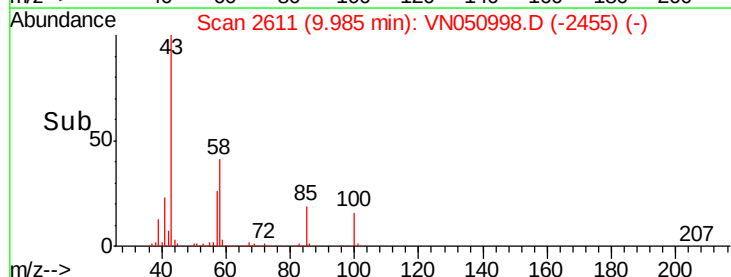
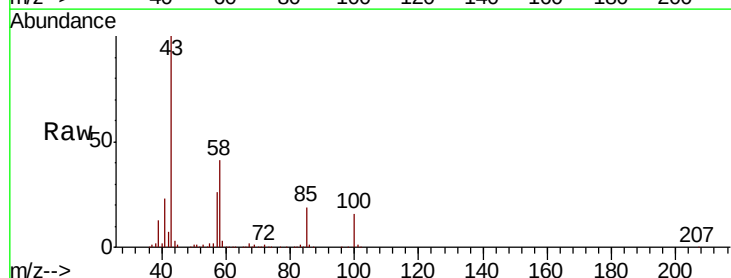
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS02

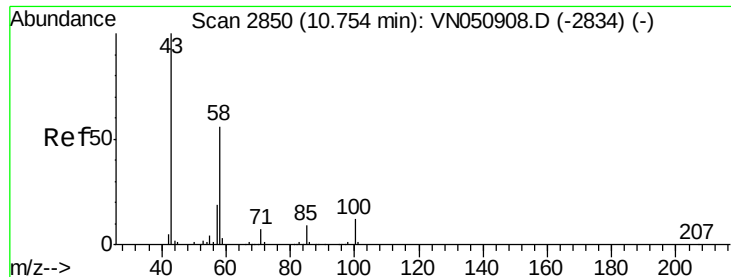
Tot Ion:117 Resp: 542946
Ion Ratio Lower Upper
117 100
82 53.6 42.6 64.0
119 31.8 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 81.25 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN050998.D
Acq: 31 Aug 2018 19:45

Tgt Ion: 43 Resp: 504760
Ion Ratio Lower Upper
43 100
58 41.0 32.3 48.5
85 18.8 14.9 22.3





#59

2-Hexanone

Concen: 75.14 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS02

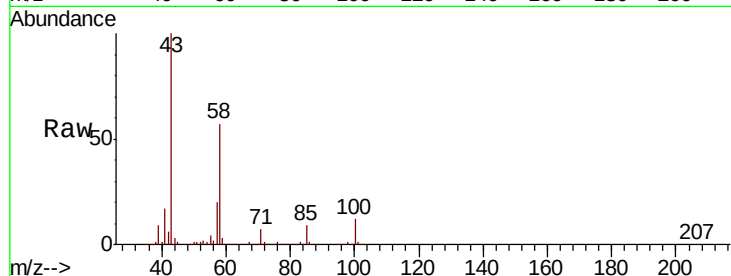
Tot Ion: 43 Resp: 305124

Ion Ratio Lower Upper

43 100

58 56.3 45.5 68.3

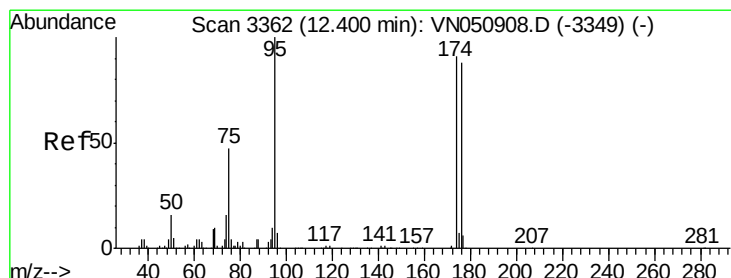
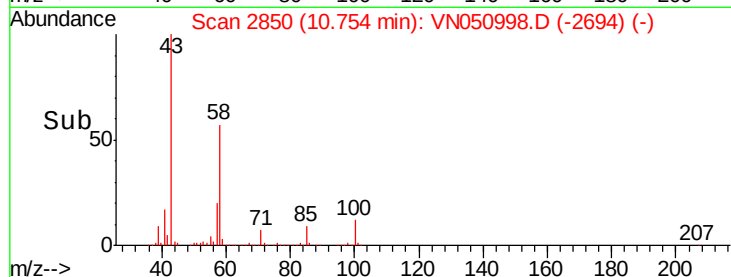
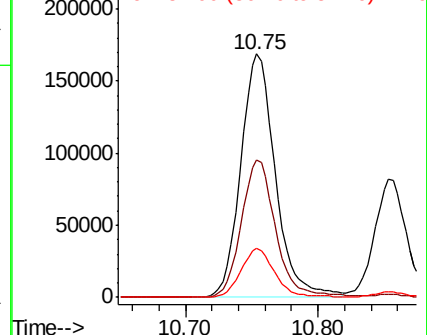
57 19.8 15.2 22.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#60

4-Bromofluorobenzene

Concen: 29.29 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

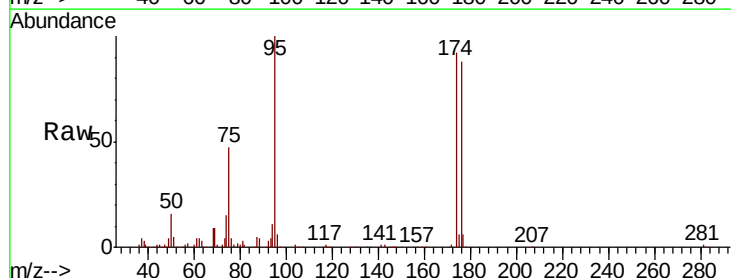
Tgt Ion: 95 Resp: 236451

Ion Ratio Lower Upper

95 100

174 92.4 74.6 112.0

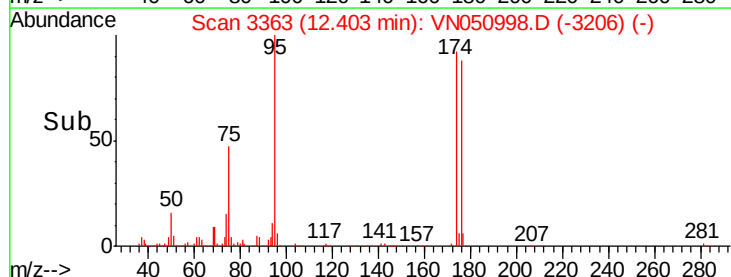
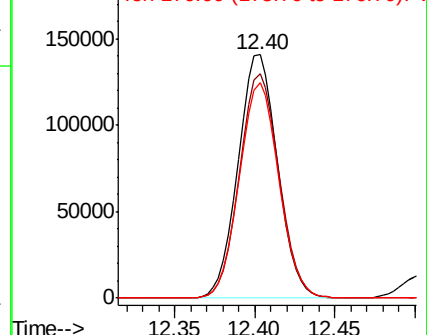
176 88.7 71.5 107.3

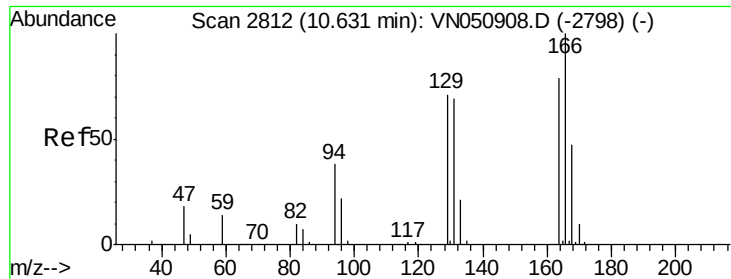


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 20.09 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS02

Tot Ion:164 Resp: 135942

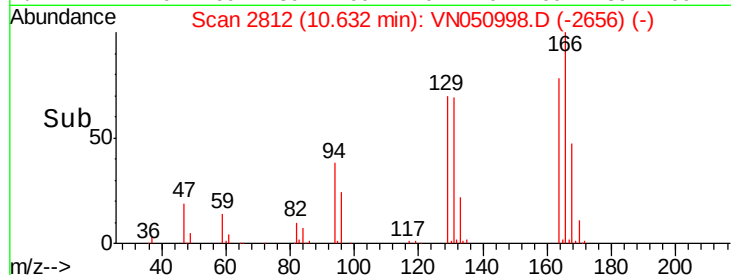
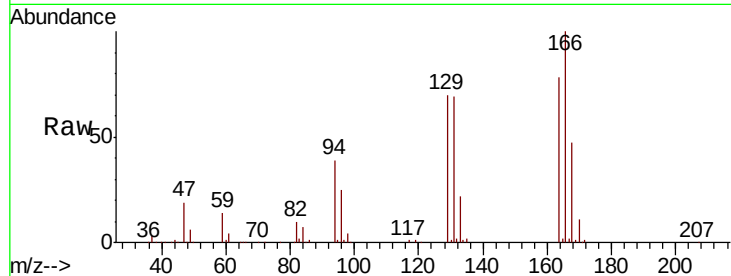
Ion Ratio Lower Upper

164 100

166 128.6 100.6 151.0

129 90.5 71.0 106.6

131 88.8 69.3 103.9

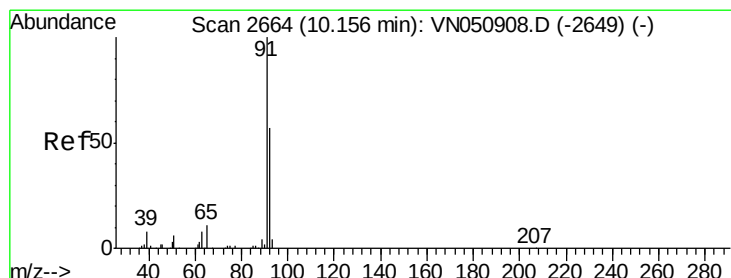
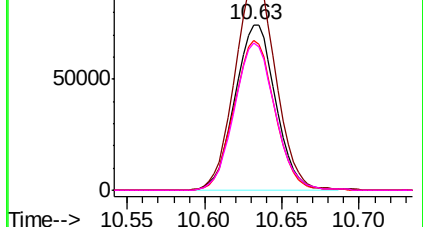


Abundance Ion 163.85 (163.55 to 164.55): V

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: 19.88 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN050998.D

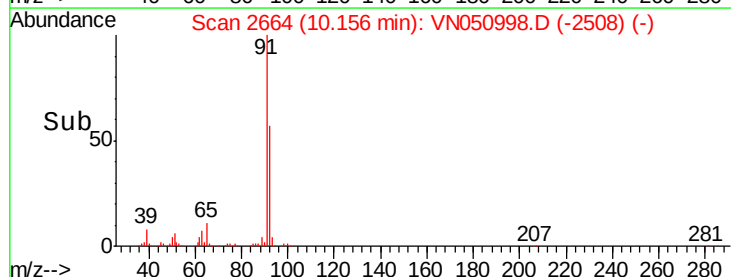
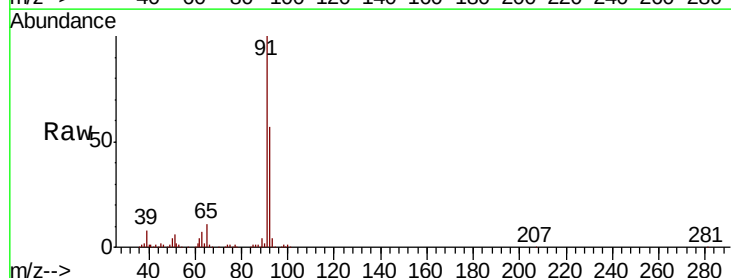
Acq: 31 Aug 2018 19:45

Tgt Ion: 91 Resp: 602135

Ion Ratio Lower Upper

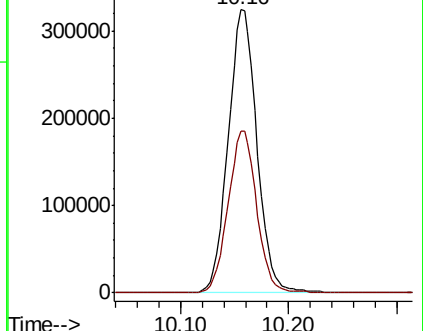
91 100

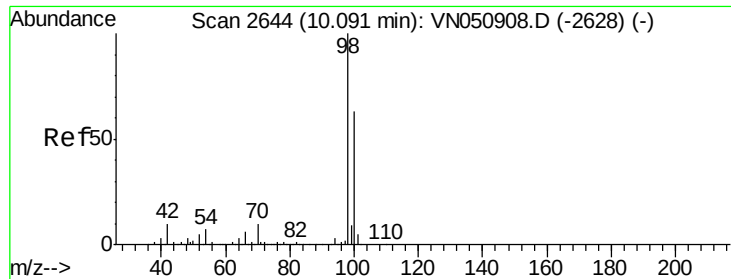
92 56.9 45.8 68.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 31.29 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

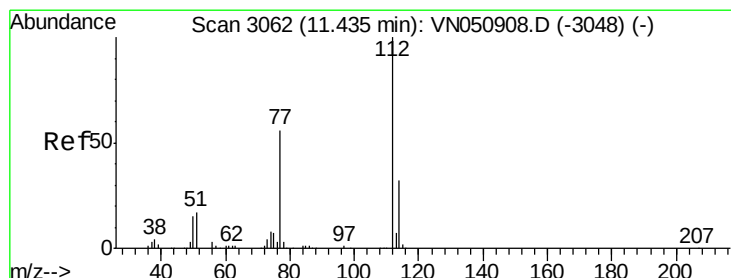
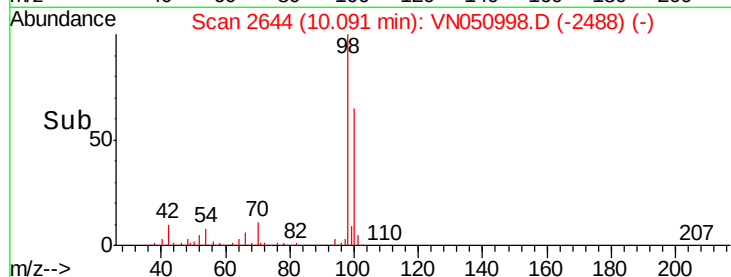
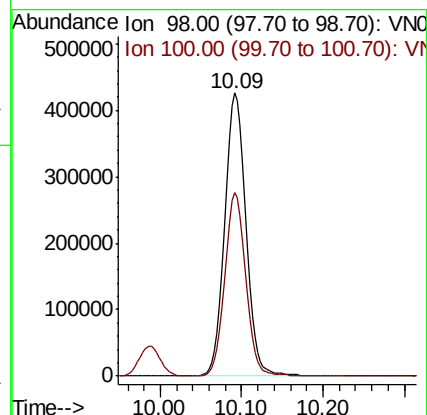
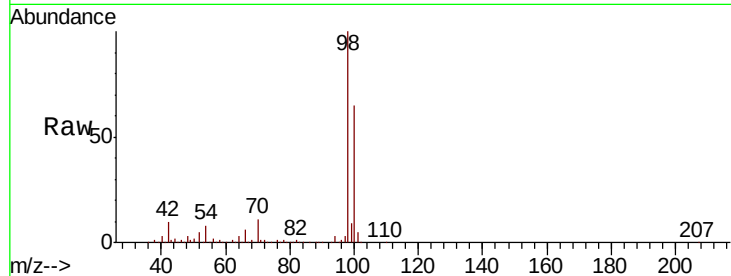
VN0831WBS02

Tot Ion: 98 Resp: 792195

Ion Ratio Lower Upper

98 100

100 63.6 50.6 75.8



#64

Chlorobenzene

Concen: 19.53 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050998.D

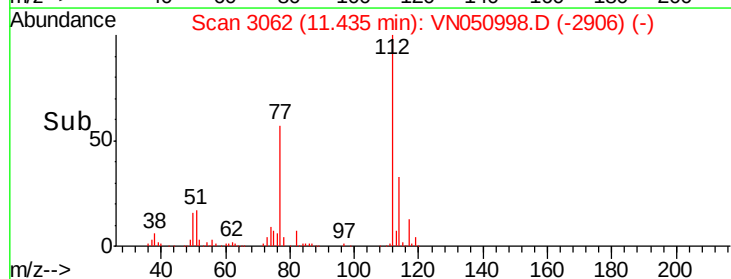
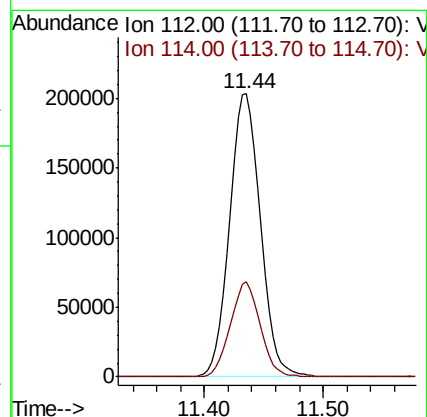
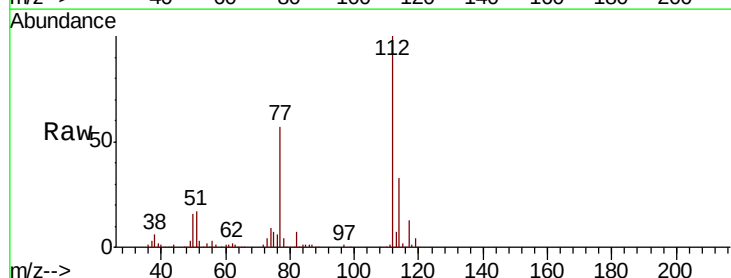
Acq: 31 Aug 2018 19:45

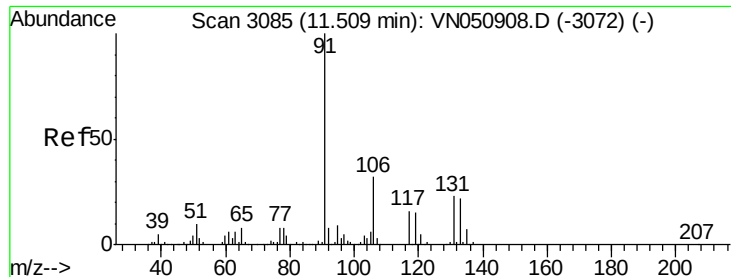
Tgt Ion: 112 Resp: 366597

Ion Ratio Lower Upper

112 100

114 33.5 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 20.14 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS02

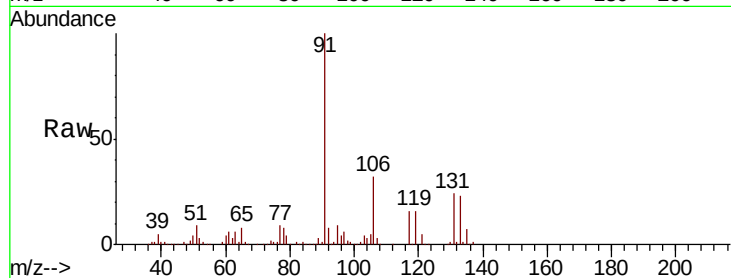
Tot Ion:131 Resp: 142728

Ion Ratio Lower Upper

131 100

133 95.8 0.0 189.4

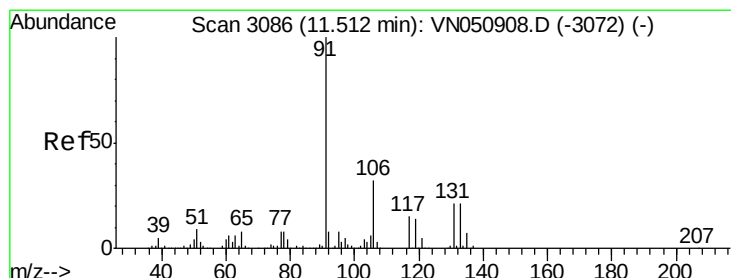
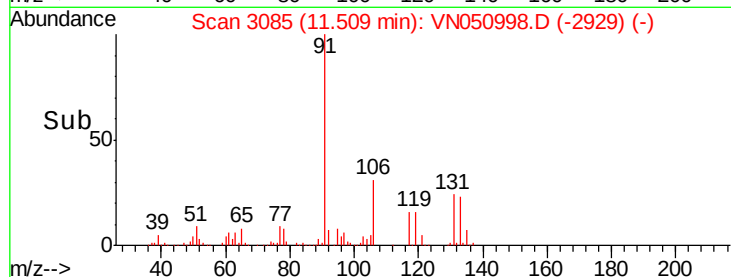
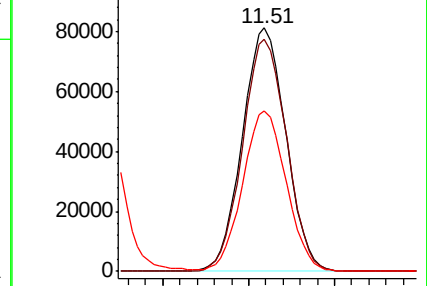
119 65.9 0.0 132.2



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: 18.95 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050998.D

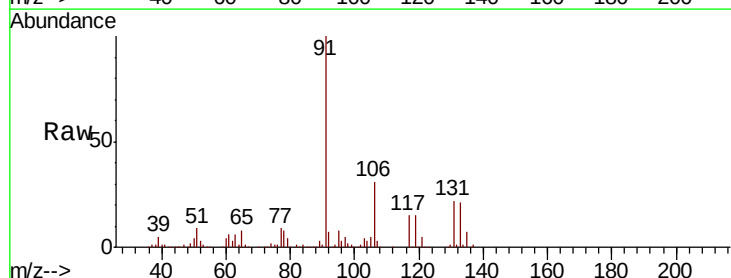
Acq: 31 Aug 2018 19:45

Tgt Ion: 91 Resp: 594495

Ion Ratio Lower Upper

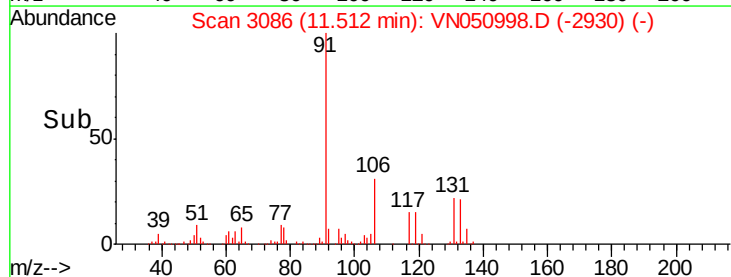
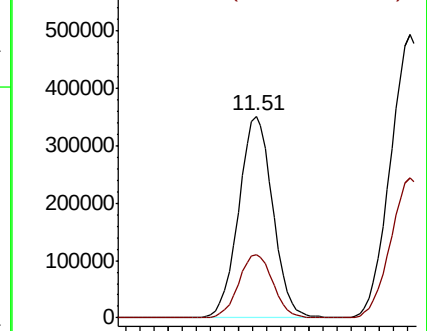
91 100

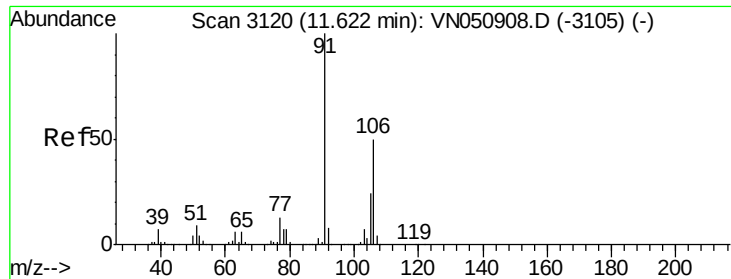
106 31.4 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 39.19 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

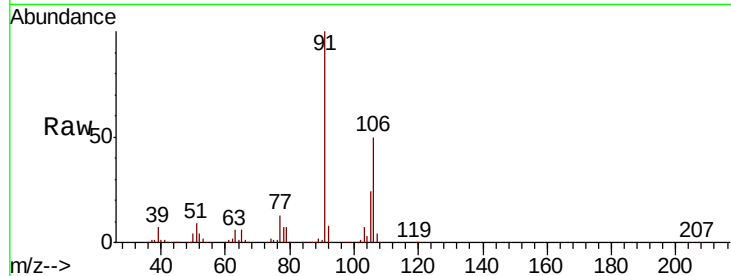
VN0831WBS02

Tot Ion:106 Resp: 473070

Ion Ratio Lower Upper

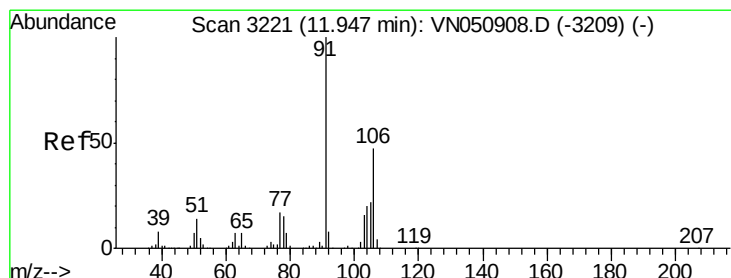
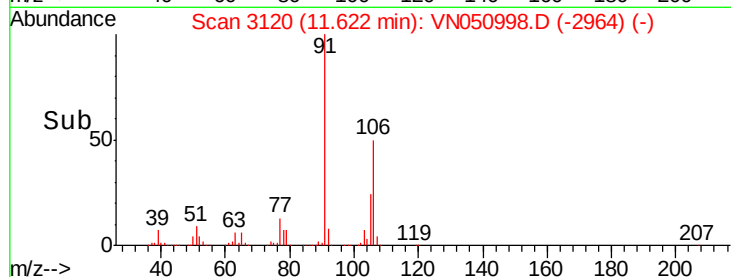
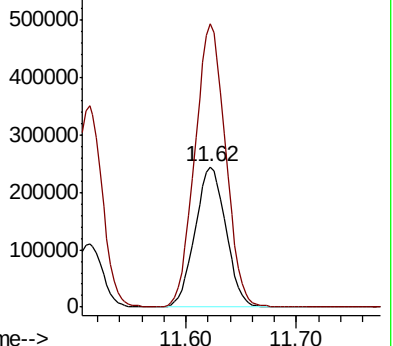
106 100

91 201.0 160.6 241.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 19.54 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050998.D

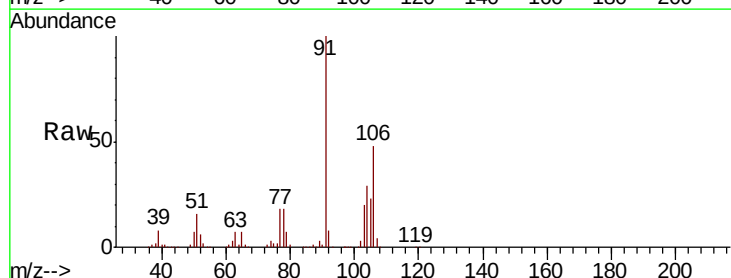
Acq: 31 Aug 2018 19:45

Tgt Ion:106 Resp: 225343

Ion Ratio Lower Upper

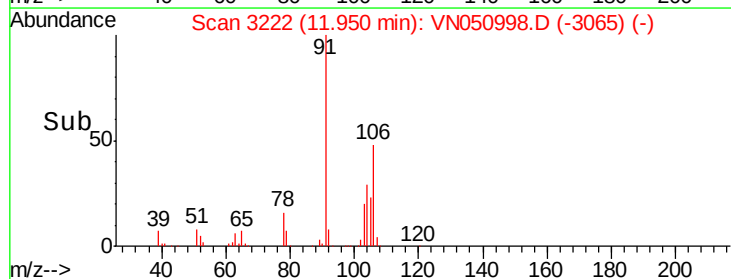
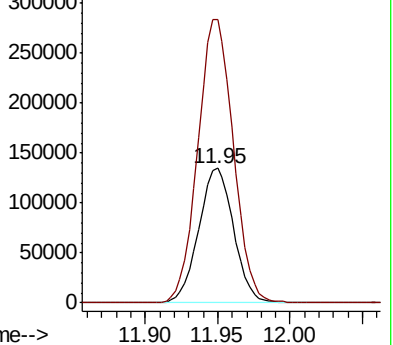
106 100

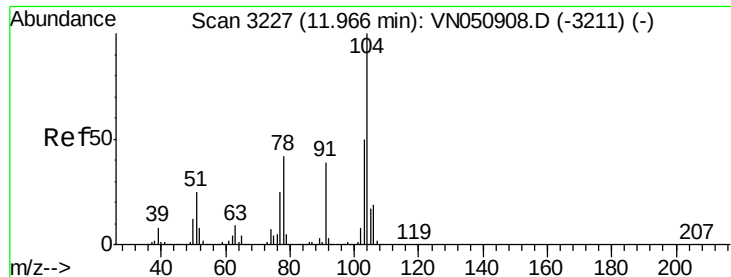
91 214.0 106.4 319.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#69

Stvrene

Concen: 18.96 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS02

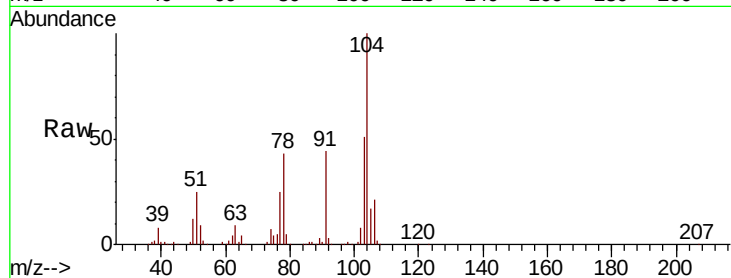
Tot Ion:104 Resp: 347741

Ion Ratio Lower Upper

104 100

78 48.4 38.6 58.0

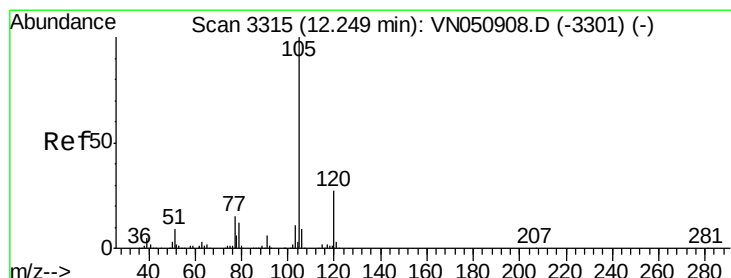
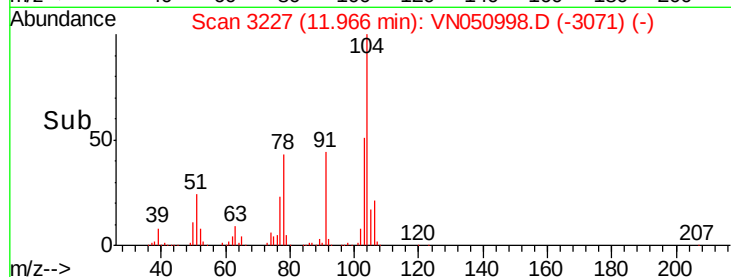
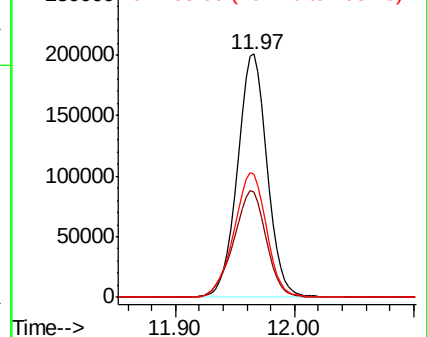
103 56.2 45.4 68.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 19.32 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050998.D

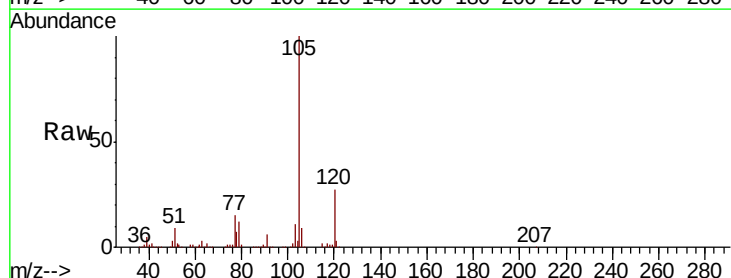
Acq: 31 Aug 2018 19:45

Tgt Ion:105 Resp: 592283

Ion Ratio Lower Upper

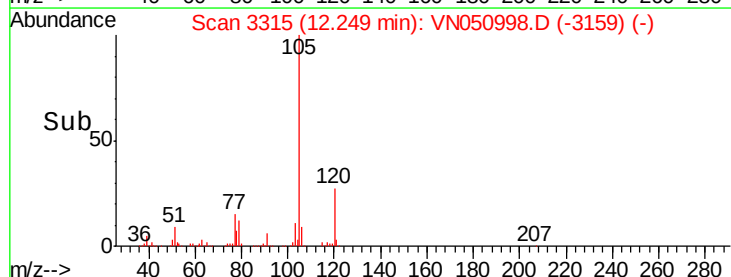
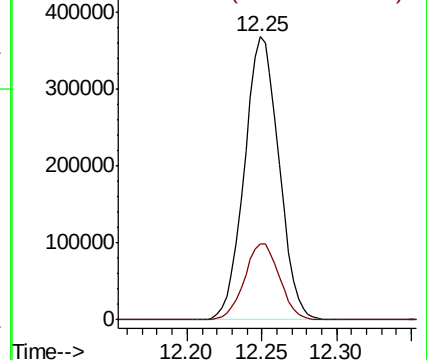
105 100

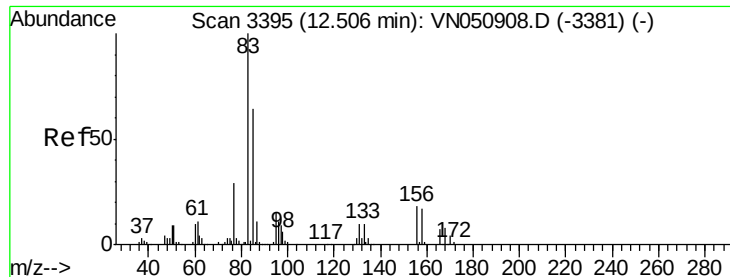
120 27.2 18.6 34.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#71

1,1,2,2-Tetrachloroethane

Concen: 18.08 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

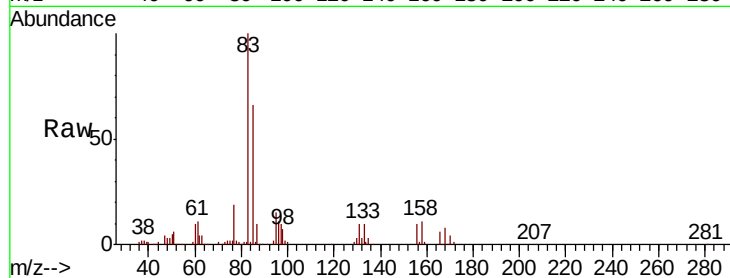
Tot Ion: 83 Resp: 150025

Ion Ratio Lower Upper

83 100

131 10.3 5.3 15.9

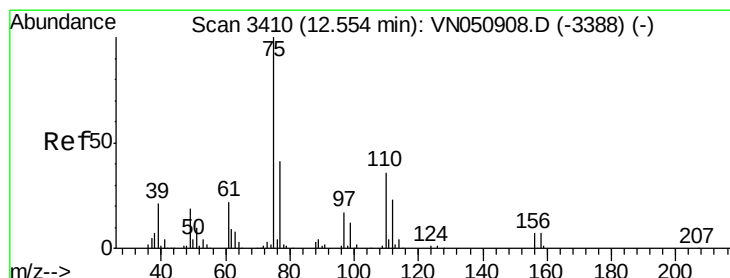
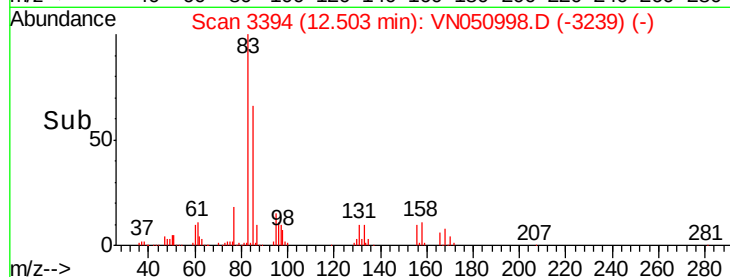
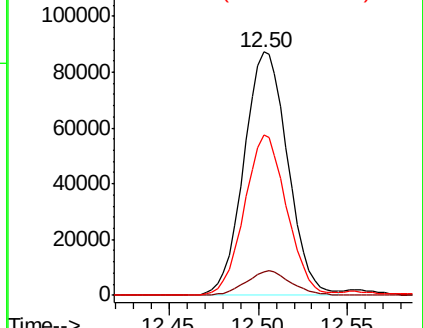
85 63.6 32.3 96.9



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 23.21 ug/l

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN050998.D

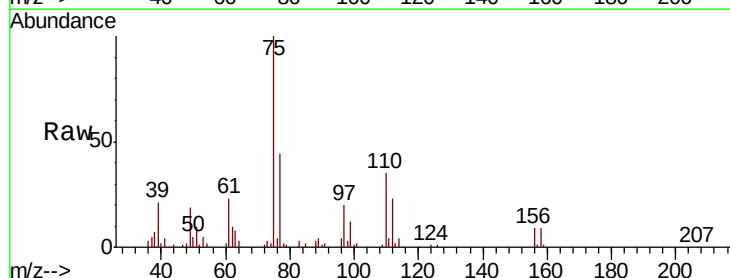
Acq: 31 Aug 2018 19:45

Tgt Ion: 75 Resp: 166183

Ion Ratio Lower Upper

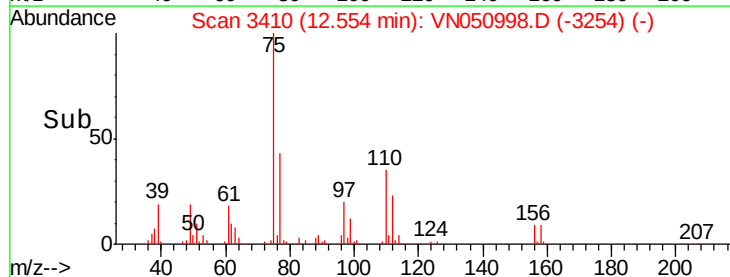
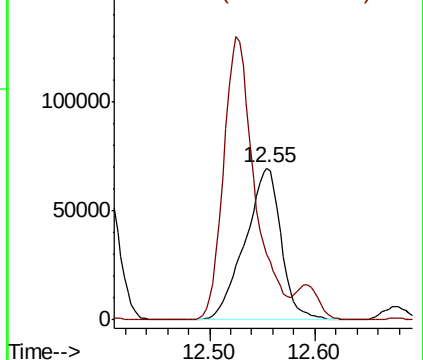
75 100

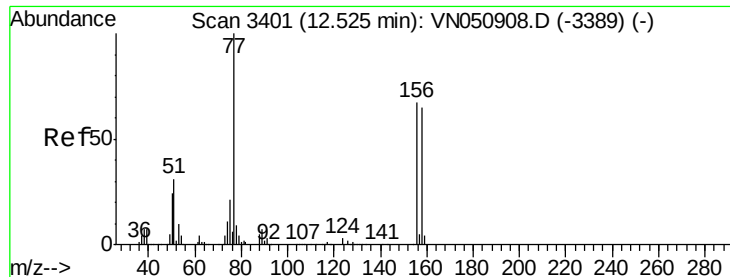
77 160.8 0.0 301.6



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 18.80 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

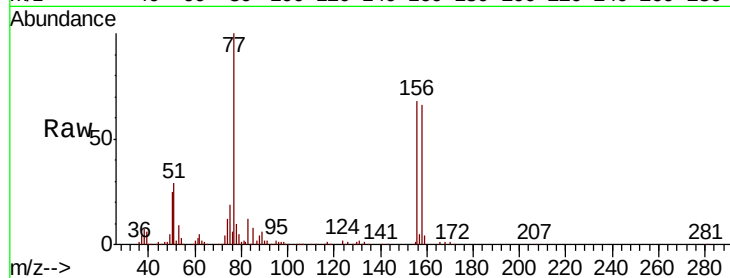
Tot Ion:156 Resp: 151628

Ion Ratio Lower Upper

156 100

77 176.3 0.0 359.4

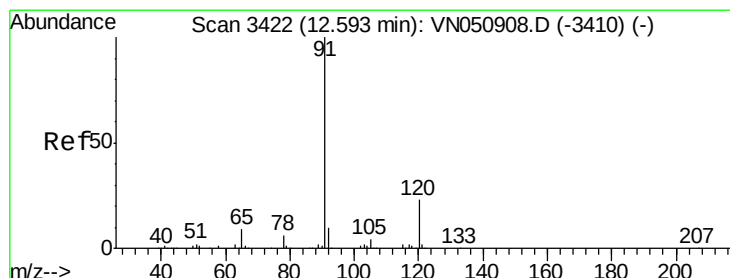
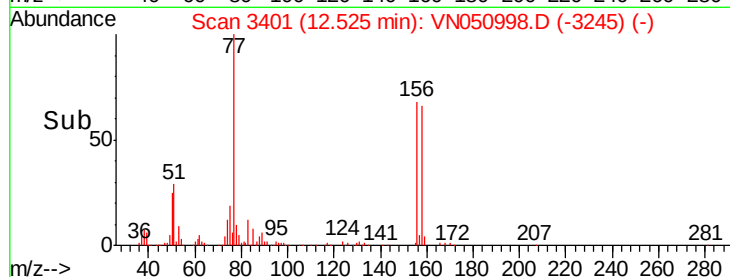
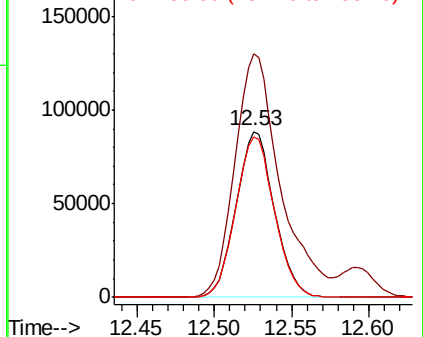
158 98.0 0.0 194.6



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: 18.87 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050998.D

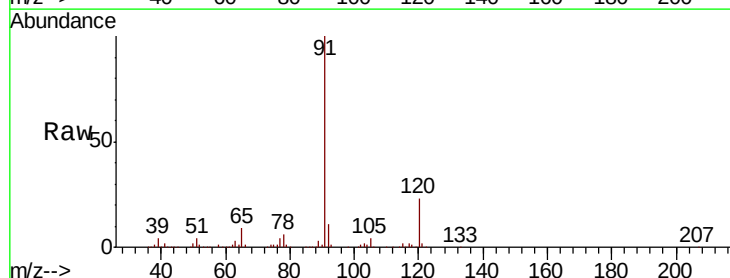
Acq: 31 Aug 2018 19:45

Tgt Ion: 91 Resp: 653977

Ion Ratio Lower Upper

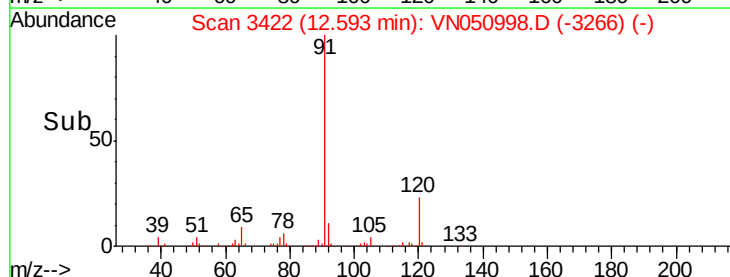
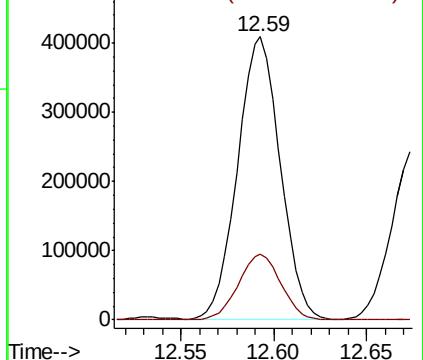
91 100

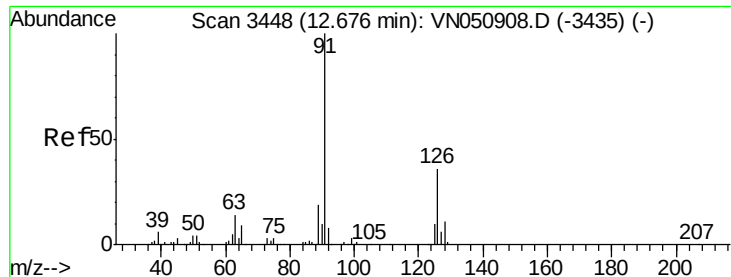
120 23.0 0.0 46.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.32 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

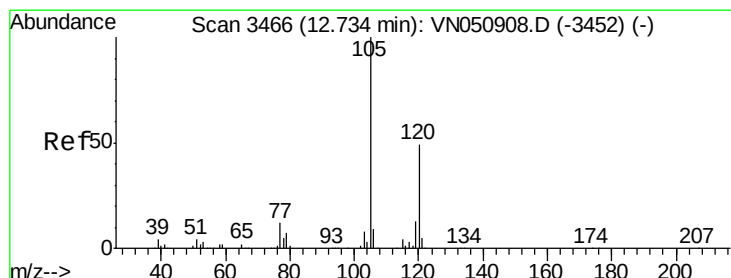
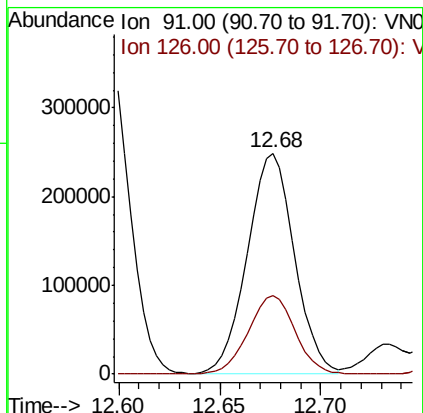
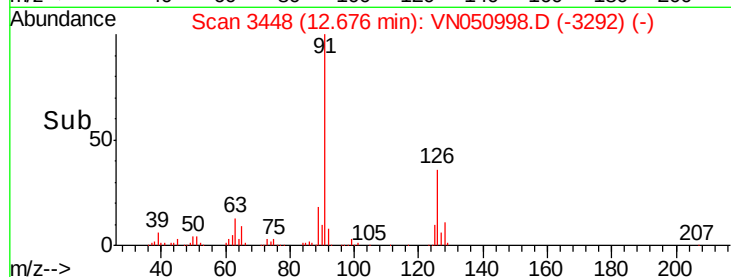
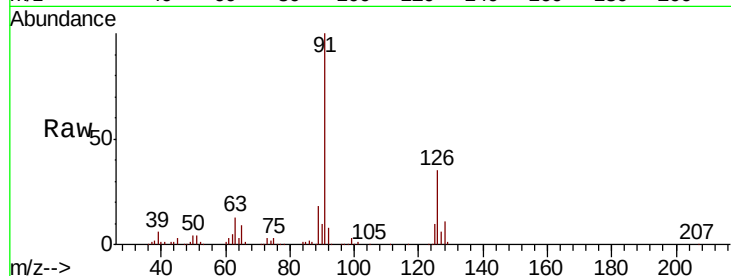
VN0831WBS02

Tot Ion: 91 Resp: 406773

Ion Ratio Lower Upper

91 100

126 35.4 0.0 71.8



#76

1,3,5-Trimethylbenzene

Concen: 19.54 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050998.D

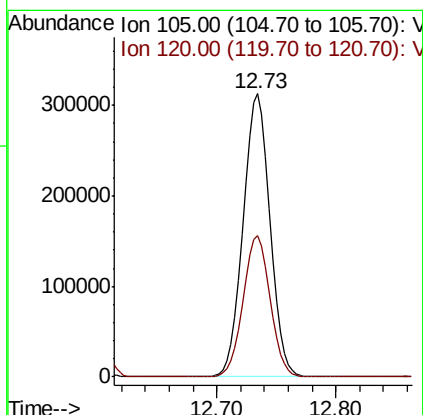
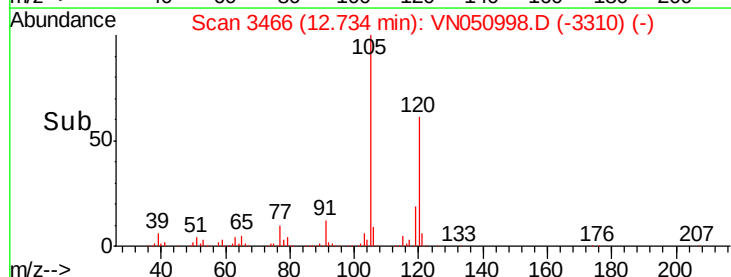
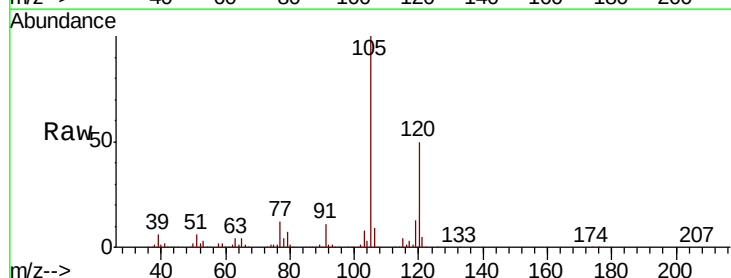
Acq: 31 Aug 2018 19:45

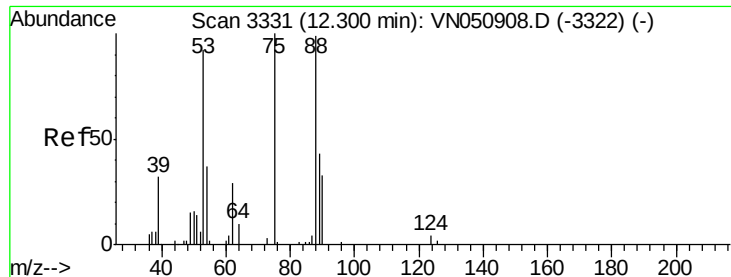
Tgt Ion: 105 Resp: 489507

Ion Ratio Lower Upper

105 100

120 50.1 0.0 99.6





#77

t-1,4-Dichloro-2-butene

Concen: 15.38 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

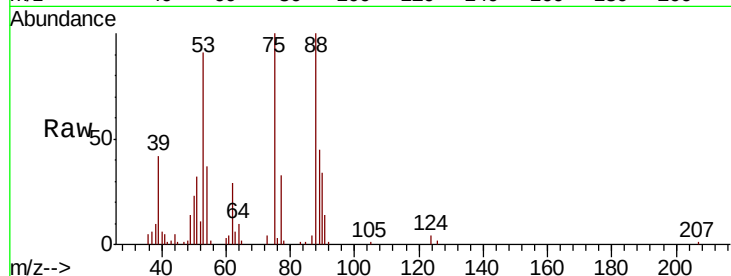
Tot Ion: 75 Resp: 31362

Ion Ratio Lower Upper

75 100

53 90.4 45.5 136.4

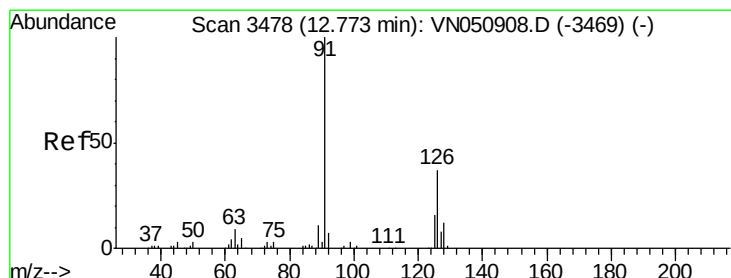
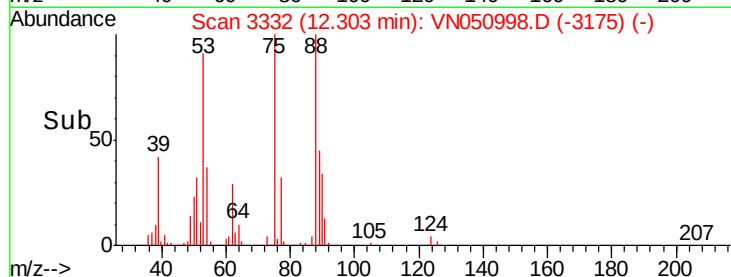
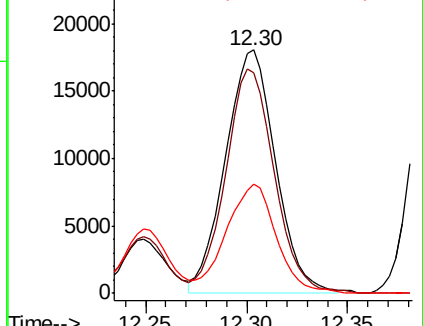
89 44.8 21.9 65.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 18.93 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050998.D

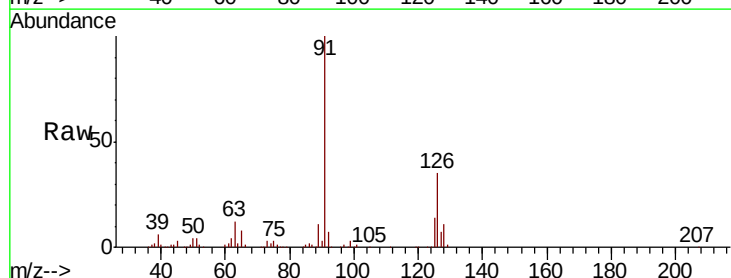
Acq: 31 Aug 2018 19:45

Tgt Ion: 91 Resp: 392402

Ion Ratio Lower Upper

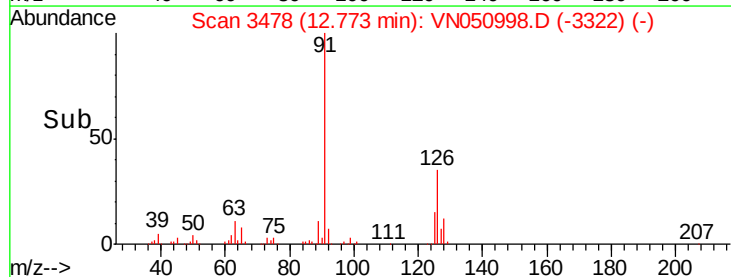
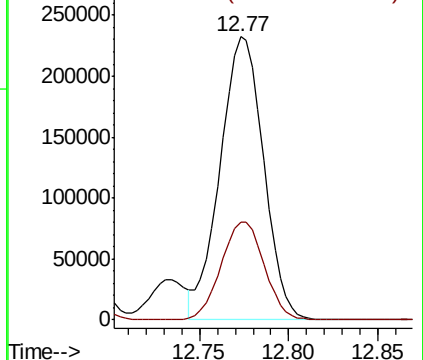
91 100

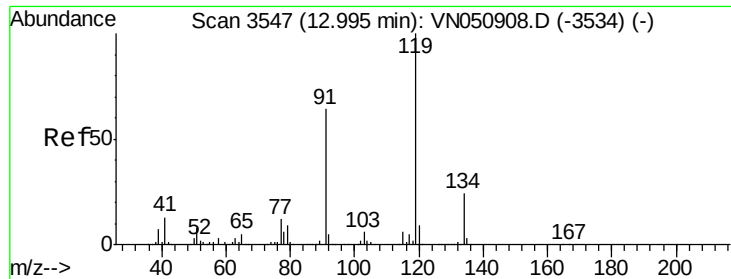
126 34.4 0.0 69.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

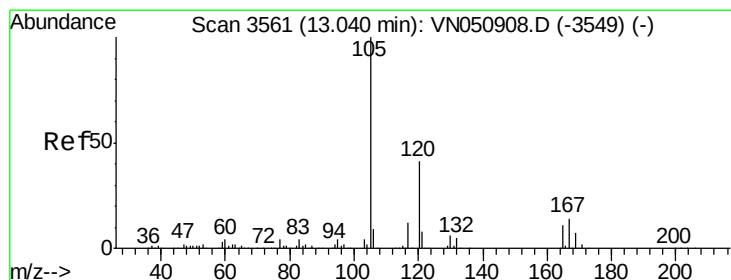
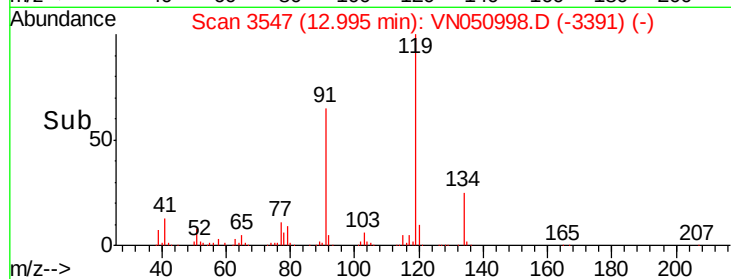
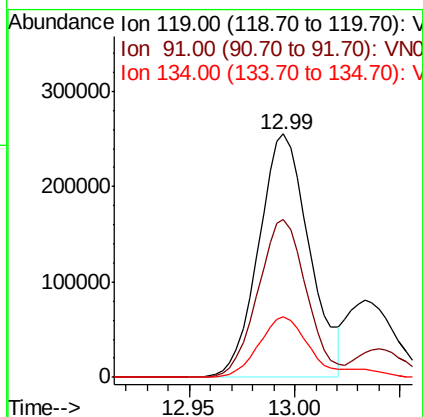
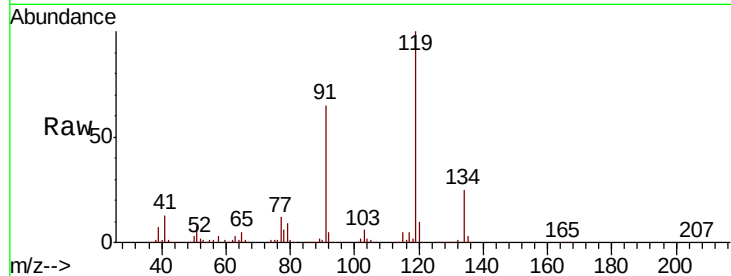




#79
 tert-butylbenzene
 Concen: 19.61 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

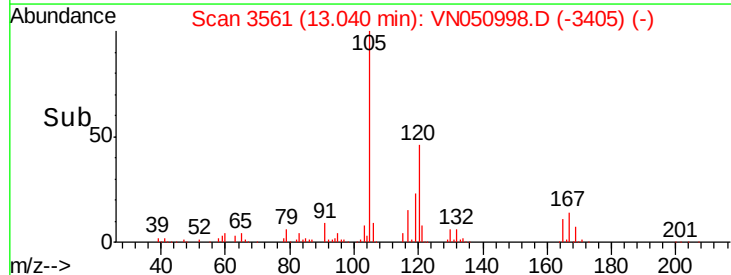
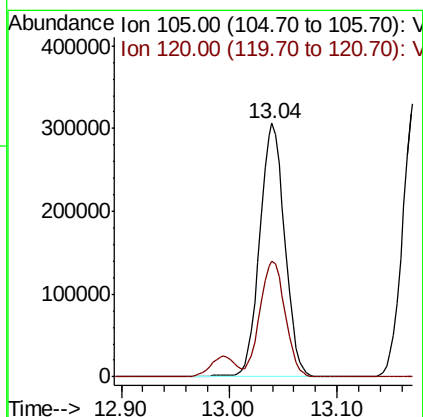
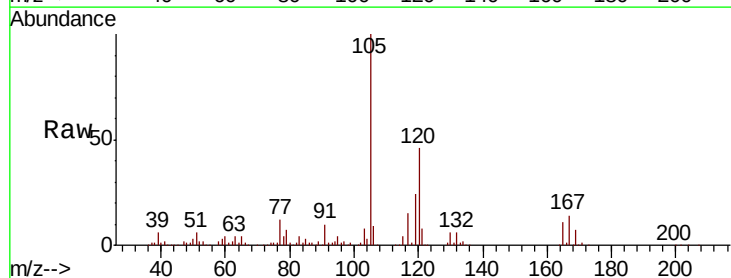
Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBS02

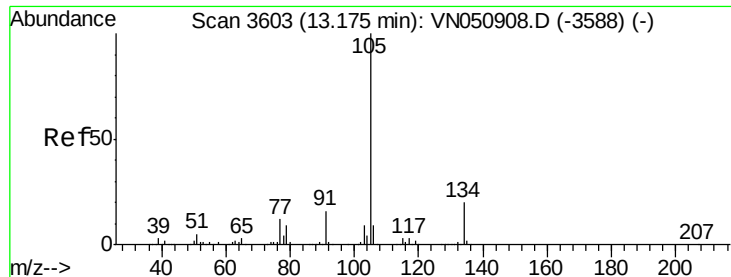
Tot Ion:119 Resp: 426666
 Ion Ratio Lower Upper
 119 100
 91 62.6 0.0 125.6
 134 23.9 0.0 48.4



#80
 1,2,4-Trimethylbenzene
 Concen: 19.72 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion:105 Resp: 492457
 Ion Ratio Lower Upper
 105 100
 120 46.1 0.0 93.6





#81

sec-Butylbenzene

Concen: 19.16 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

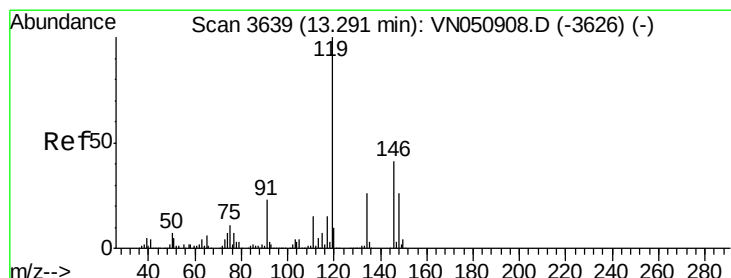
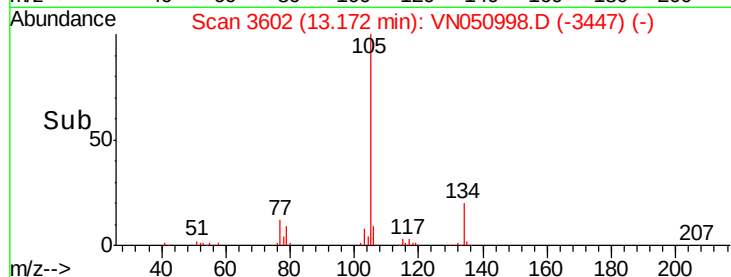
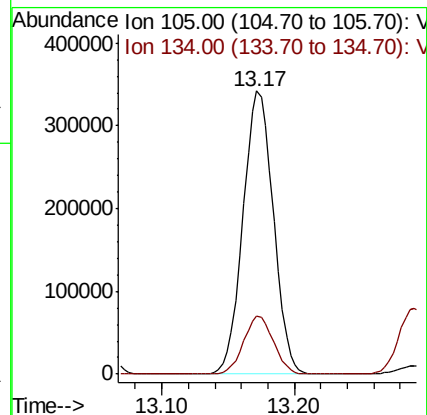
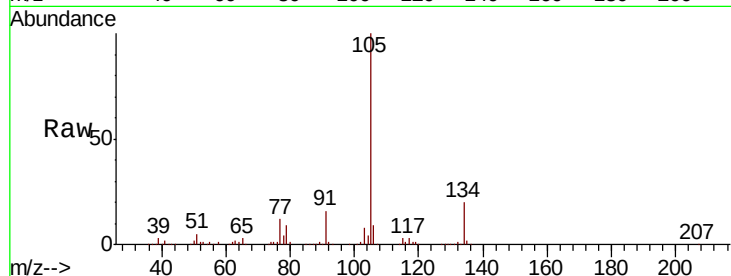
VN0831WBS02

Tot Ion:105 Resp: 545365

Ion Ratio Lower Upper

105 100

134 20.2 0.0 40.8



#82

p-Isopropyltoluene

Concen: 18.84 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

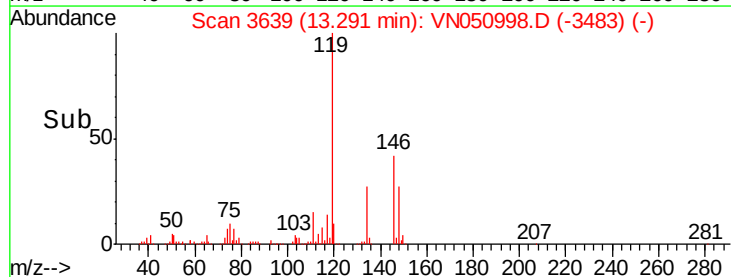
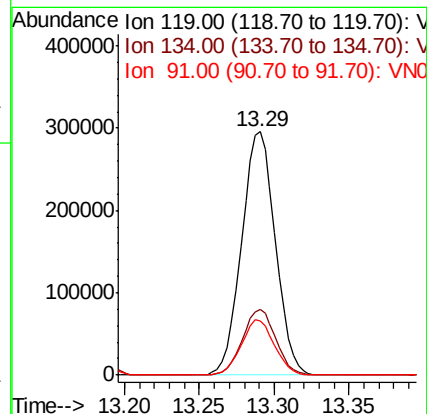
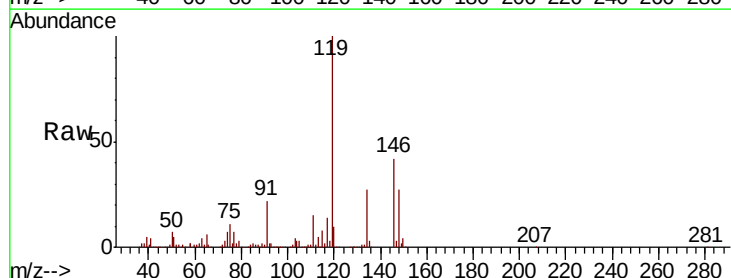
Tgt Ion:119 Resp: 462938

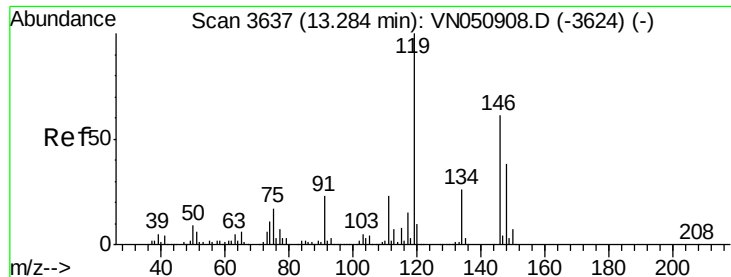
Ion Ratio Lower Upper

119 100

134 26.8 0.0 53.2

91 22.2 0.0 46.0

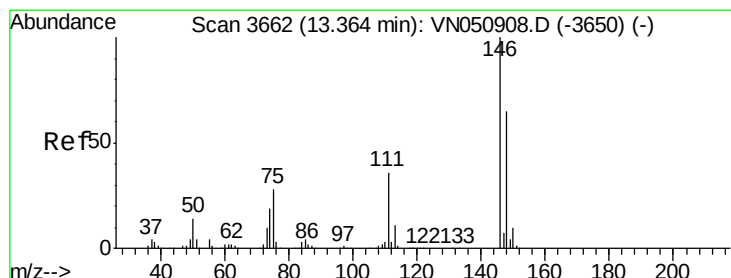
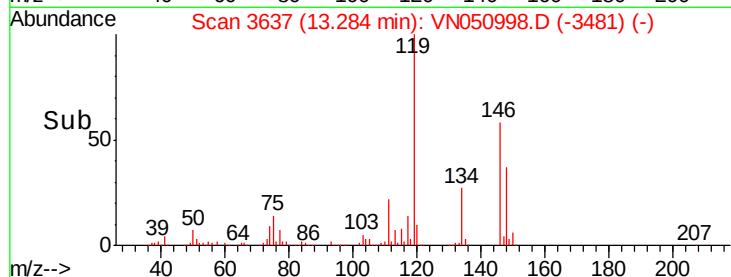
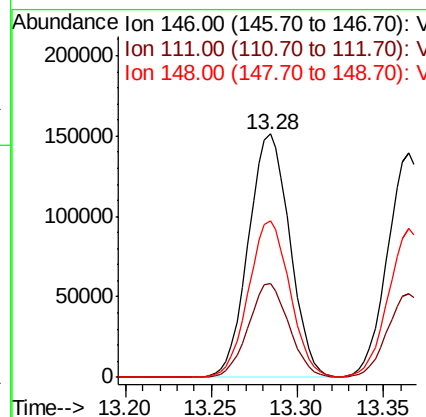
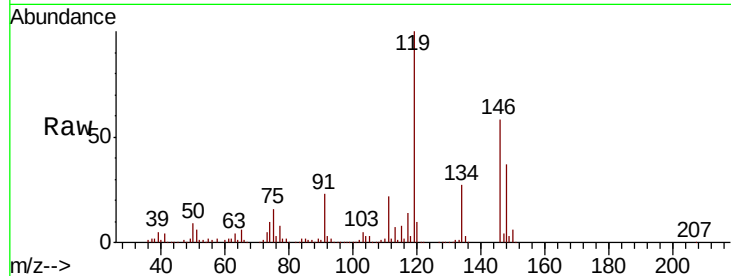




#83
 1,3-Dichlorobenzene
 Concen: 18.56 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

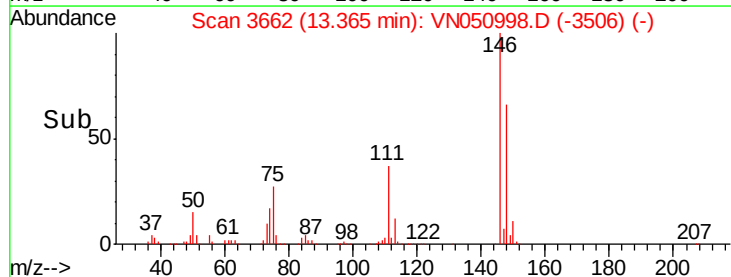
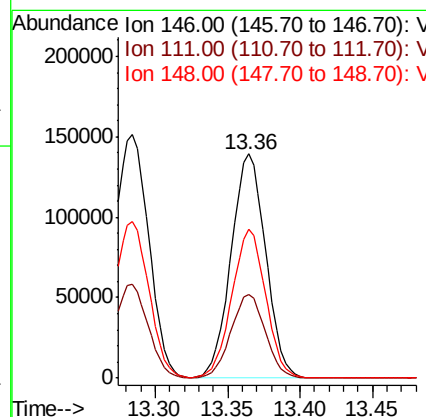
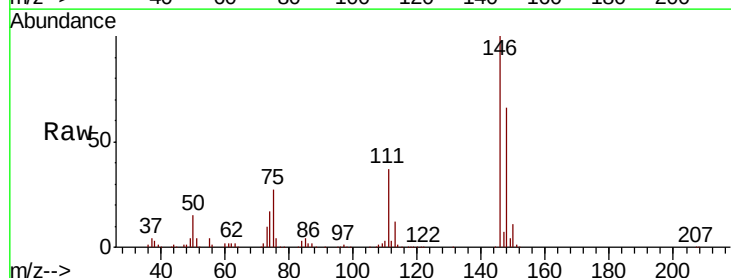
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

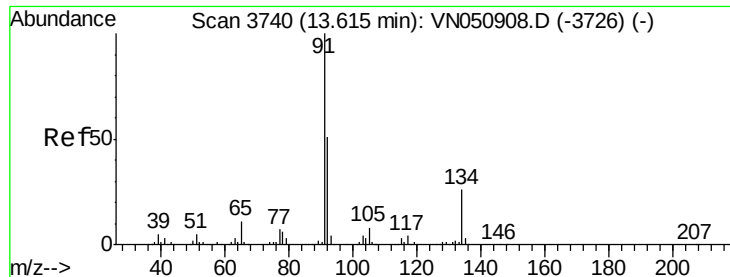
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	55.6
148	64.0	31.8	95.3



#84
 1,4-Dichlorobenzene
 Concen: 17.84 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	17.7	53.1
148	64.9	31.6	94.8





#85

n-Butylbenzene

Concen: 17.26 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS02

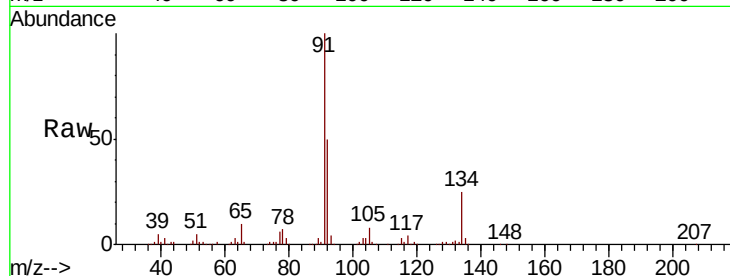
Tot Ion: 91 Resp: 323490

Ion Ratio Lower Upper

91 100

92 50.3 0.0 101.8

134 26.1 0.0 52.2



Abundance Ion 91.00 (90.70 to 91.70): VN050998.D (-3726) (-)

Ion 92.00 (91.70 to 92.70): VN050998.D (-3726) (-)

Ion 134.00 (133.70 to 134.70): VN050998.D (-3726) (-)

13.62

250000

200000

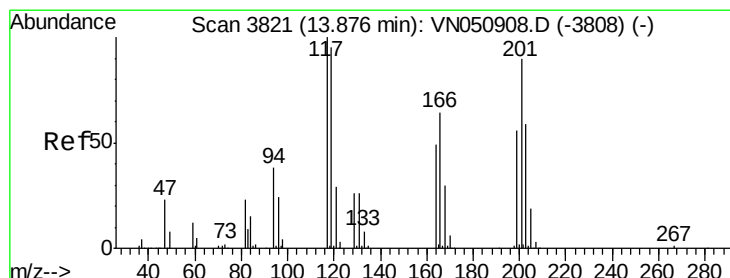
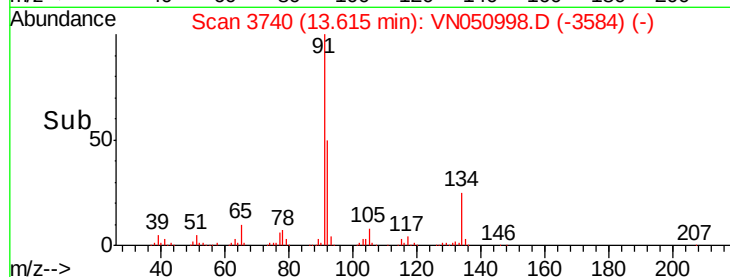
150000

100000

50000

0

Time-->



#86

Hexachloroethane

Concen: 18.67 ug/l

RT: 13.87 min Scan# 3820

Delta R.T. -0.00 min

Lab File: VN050998.D

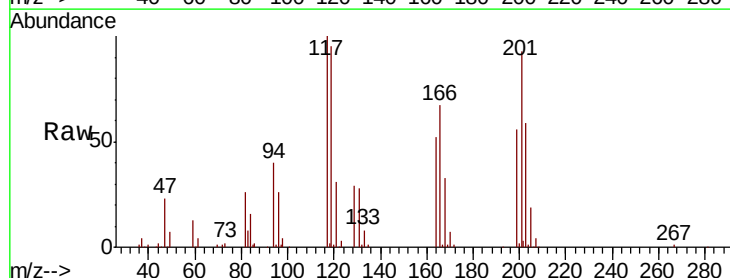
Acq: 31 Aug 2018 19:45

Tgt Ion: 117 Resp: 88061

Ion Ratio Lower Upper

117 100

201 96.0 45.8 137.4



Abundance Ion 117.00 (116.70 to 117.70): VN050998.D (-3808) (-)

Ion 201.00 (200.70 to 201.70): VN050998.D (-3808) (-)

60000

50000

40000

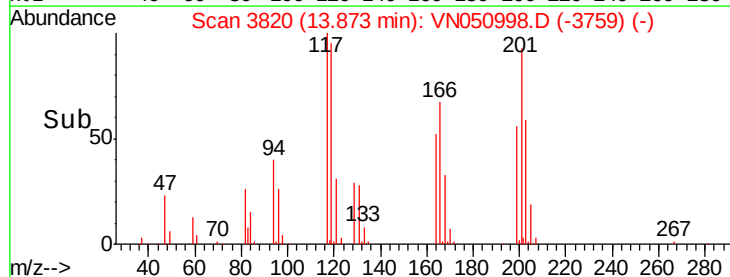
30000

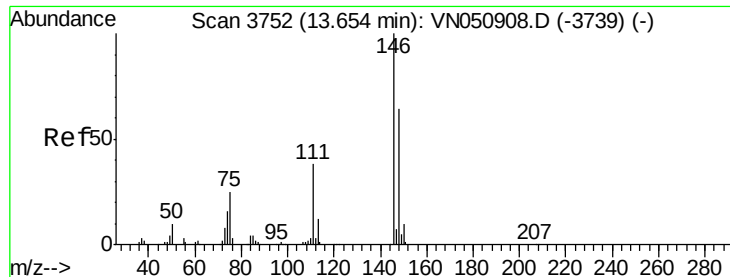
20000

10000

0

Time-->

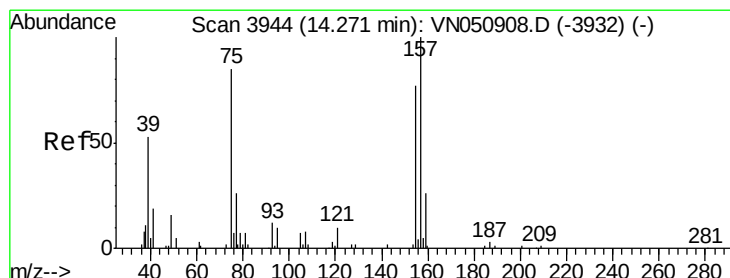
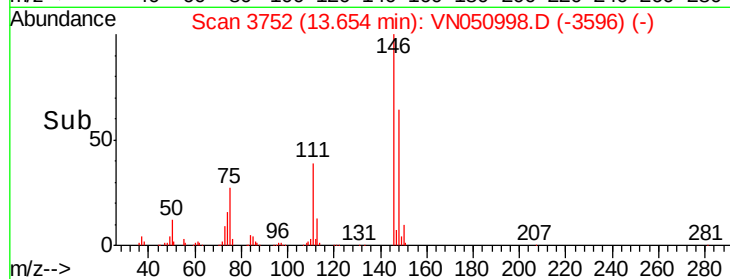
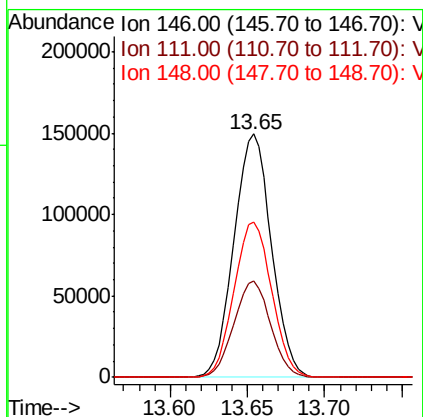
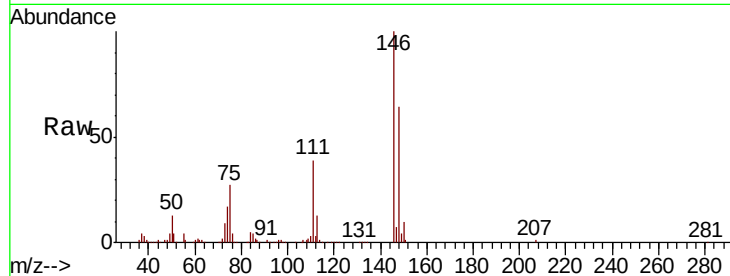




#87
 1,2-Dichlorobenzene
 Concen: 18.70 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

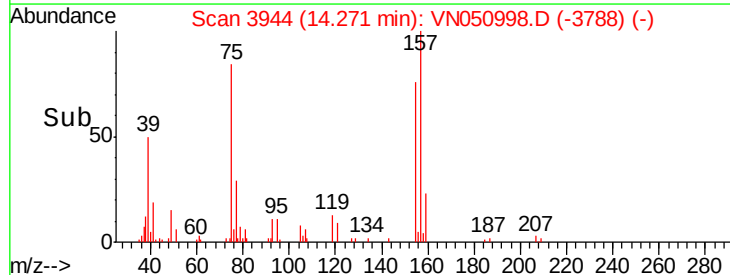
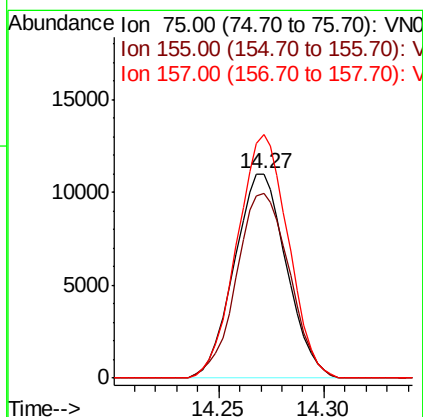
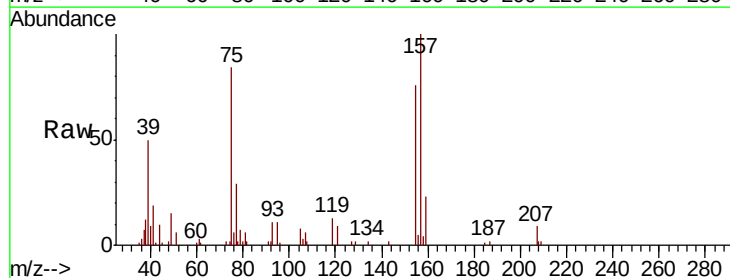
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

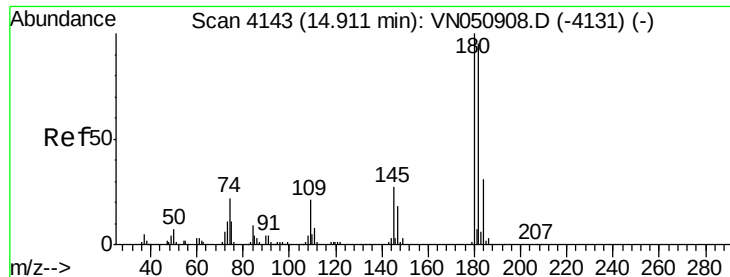
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.1
148	64.0	31.9	95.9



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 16.27 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.0	71.8	107.6
157	117.0	91.1	136.7

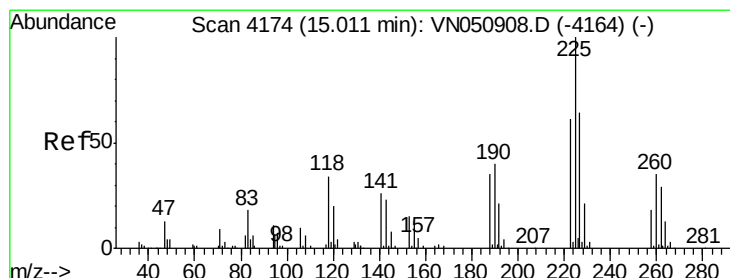
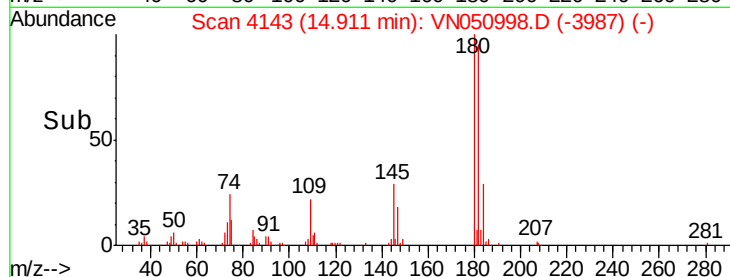
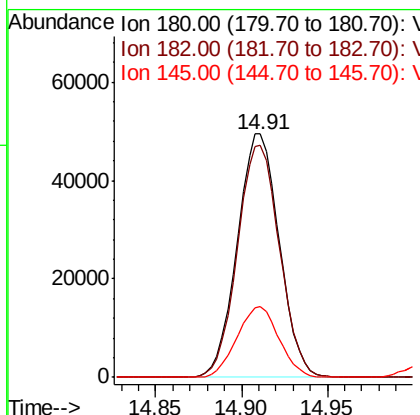
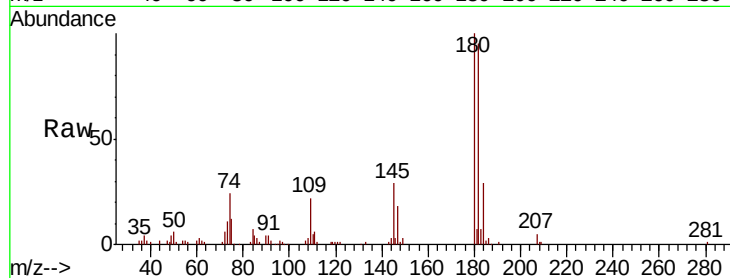




#89
 1,2,4-Trichlorobenzene
 Concen: 14.05 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

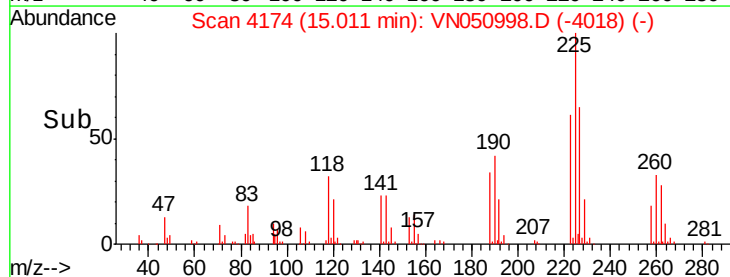
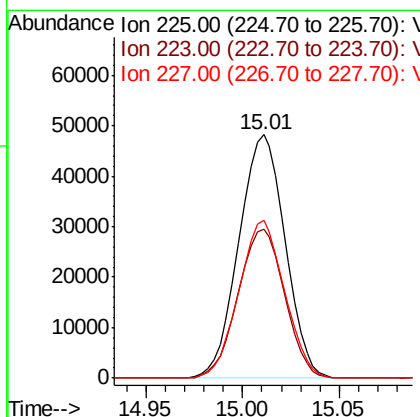
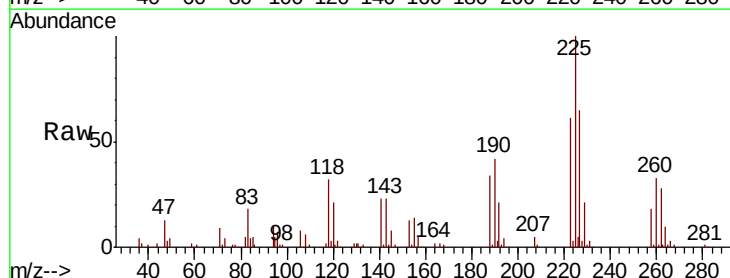
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS02

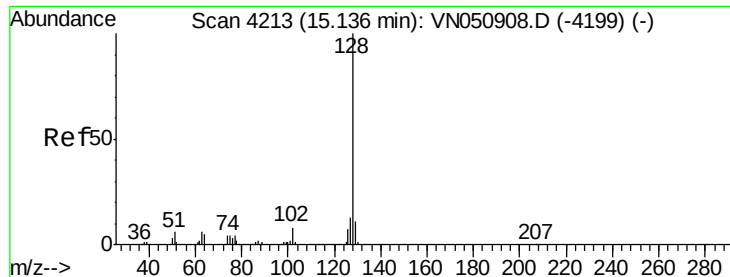
Tot Ion:180 Resp: 83949
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.4
 145 29.1 22.2 33.4



#90
 Hexachlorobutadiene
 Concen: 19.77 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050998.D
 Acq: 31 Aug 2018 19:45

Tgt Ion:225 Resp: 80241
 Ion Ratio Lower Upper
 225 100
 223 61.4 0.0 127.8
 227 64.0 0.0 128.4





#91

Naphthalene

Concen: 16.79 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS02

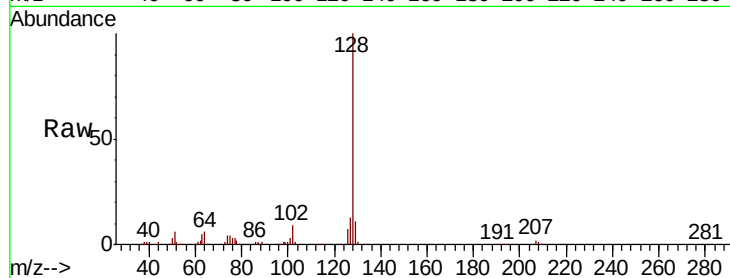
Tot Ion:128 Resp: 153352

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

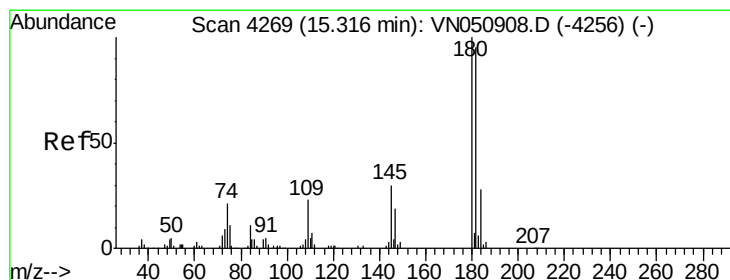
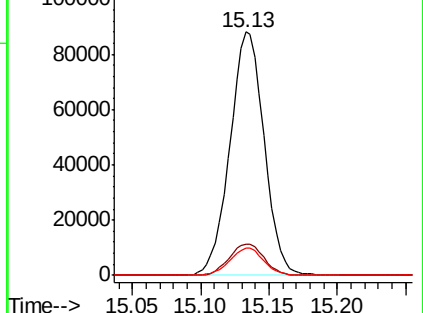
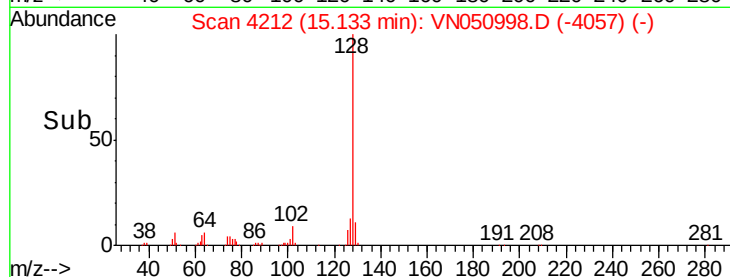
129 11.0 8.7 13.1



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: 15.24 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050998.D

Acq: 31 Aug 2018 19:45

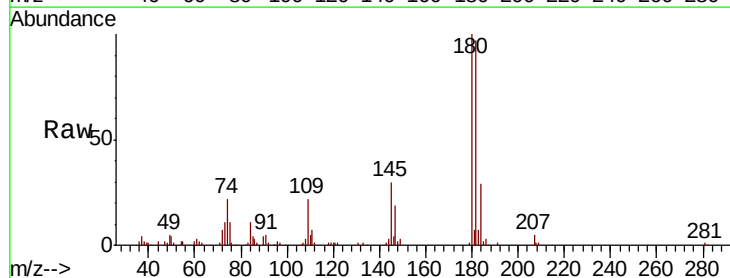
Tgt Ion:180 Resp: 91352

Ion Ratio Lower Upper

180 100

182 94.4 0.0 192.8

145 29.2 0.0 60.0



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

