

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050501.D
 Acq On : 9 Aug 2018 22:27
 Operator : MD\SY
 Sample : VN0809WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 07:26:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	138860	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	723753	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	636428	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	272481	28.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.23%
60) 4-Bromofluorobenzene	12.40	95	284311	29.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.93%
63) Toluene-d8	10.09	98	905237	29.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.27%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	140745	14.71	ug/l	96
3) Chloromethane	2.06	50	170258	17.26	ug/l	100
4) Vinyl Chloride	2.18	62	186756	17.78	ug/l	98
5) Bromomethane	2.57	94	106790	16.68	ug/l	96
6) Chloroethane	2.70	64	113966	18.35	ug/l	99
7) Trichlorofluoromethane	3.01	101	255942	18.65	ug/l	99
8) Diethyl Ether	3.41	74	87511	19.01	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	159637	19.12	ug/l	100
10) 1,1-Dichloroethene	3.74	96	141452	19.11	ug/l	92
11) Methyl Iodide	3.95	142	70304	6.45	ug/l	97
12) Methyl Acetate	4.33	43	133456	15.74	ug/l	98
13) Acrolein	3.61	56	41708	79.58	ug/l	98
14) Acrylonitrile	5.00	53	248969	87.98	ug/l	99
15) Acetone	3.82	58	75657	100.60	ug/l	97
16) Carbon Disulfide	4.05	76	408655	18.04	ug/l	100
17) Allyl chloride	4.33	41	206028	17.62	ug/l	97
18) Methylene Chloride	4.55	84	166182	19.45	ug/l	99
19) trans-1,2-Dichloroethene	5.05	96	151657	19.13	ug/l	95
20) Diisopropyl ether	5.96	45	481483	20.08	ug/l	98
21) 1,1-Dichloroethane	5.85	63	290403	19.26	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	173688	19.76	ug/l	97
23) tert-Butyl Alcohol	4.79	59	51358	81.22	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	387803	19.21	ug/l	99
25) Chloroform	7.37	83	300734	19.71	ug/l	100
26) Cyclohexane	7.66	56	225358	18.81	ug/l #	98
29) 1,1-Dichloropropene	7.80	75	213420	19.00	ug/l	99
30) 2-Butanone	6.84	43	359292	101.94	ug/l	98
31) 2,2-Dichloropropane	6.83	77	199236	16.05	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	252840	19.12	ug/l	99
33) Carbon Tetrachloride	7.78	117	222678	18.89	ug/l	97
34) Benzene	8.04	78	665327	19.50	ug/l	99
35) Methacrylonitrile	7.18	41	55082	13.73	ug/l	100
36) 1,2-Dichloroethane	8.13	62	210657	18.81	ug/l	100
37) Trichloroethene	8.84	130	173517	19.39	ug/l	99
38) Methylcyclohexane	9.09	83	211714	17.88	ug/l	99
39) 1,2-Dichloropropane	9.12	63	173986	19.36	ug/l	99
40) Dibromomethane	9.21	93	103510	18.64	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	223298	19.06	ug/l	96
42) Vinyl Acetate	5.90	43	1535924	92.60	ug/l	99
43) Ethyl Acetate	6.94	43	136501	18.55	ug/l #	92
44) Isopropyl Acetate	8.17	43	237856	17.45	ug/l #	81
45) 1,4-Dioxane	9.20	88	31436	350.39	ug/l	95
46) Methyl methacrylate	9.20	41	114900	17.38	ug/l	97
47) n-amyl Acetate	12.07	43	181741	17.13	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	200855	17.99	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	241967	18.44	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	150730	18.91	ug/l	97
51) Ethyl methacrylate	10.43	69	173813	17.96	ug/l	97
52) 1,3-Dichloropropane	10.71	76	249516	19.06	ug/l	99
53) Dibromochloromethane	10.90	129	165451	18.29	ug/l	99
54) 1,2-Dibromoethane	11.01	107	143506	18.38	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	426624	97.42	ug/l	100
56) Bromoform	12.13	173	108779	17.03	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	823253	111.17	ug/l	99
59) 2-Hexanone	10.75	43	520414	103.01	ug/l	99
61) Tetrachloroethene	10.63	164	167028	19.38	ug/l	97
62) Toluene	10.16	91	704142	19.39	ug/l	100
64) Chlorobenzene	11.44	112	427681	19.42	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	167430	19.50	ug/l	99
66) Ethyl Benzene	11.51	91	702233	18.92	ug/l	100
67) m/p-Xylenes	11.62	106	554128	38.80	ug/l	99
68) o-Xylene	11.95	106	262663	19.33	ug/l	98
69) Styrene	11.97	104	424300	19.48	ug/l	100
70) Isopropylbenzene	12.25	105	689983	19.07	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	181366	18.26	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	201663	23.77	ug/l	60
73) Bromobenzene	12.53	156	181741	18.85	ug/l	99
74) n-propylbenzene	12.59	91	775136	18.39	ug/l	100
75) 2-Chlorotoluene	12.68	91	483309	19.09	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	570855	19.21	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	38003	13.70	ug/l	90
78) 4-Chlorotoluene	12.77	91	480890	19.17	ug/l	100
79) tert-butylbenzene	12.99	119	481687	18.96	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	582435	19.34	ug/l	100
81) sec-Butylbenzene	13.17	105	632865	18.33	ug/l	100
82) p-Isopropyltoluene	13.29	119	539995	18.33	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	315431	18.79	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	296012	18.66	ug/l	99
85) n-Butylbenzene	13.62	91	402419	16.84	ug/l	99
86) Hexachloroethane	13.88	117	93339	15.86	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	307681	18.75	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	25710	16.61	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	136646	17.44	ug/l	100
90) Hexachlorobutadiene	15.01	225	91829	17.77	ug/l	97
91) Naphthalene	15.14	128	278721	18.99	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	139399	17.49	ug/l	99

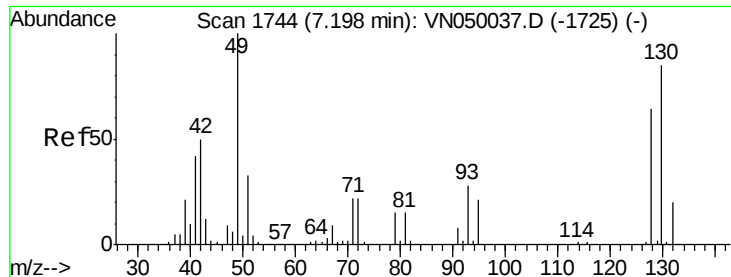
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :
MSVOA_N
ClientSampled :

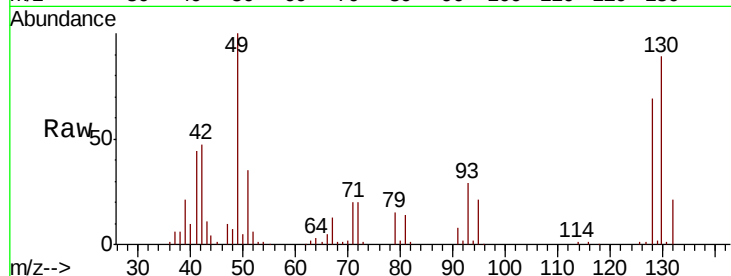
Tot Ion:128 Resp: 138860

Ion Ratio Lower Upper

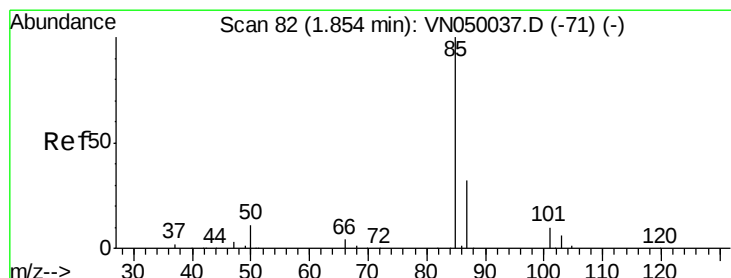
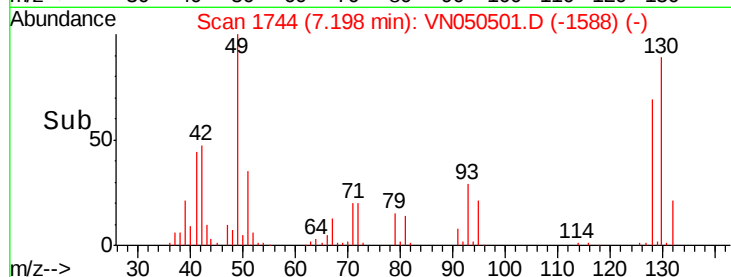
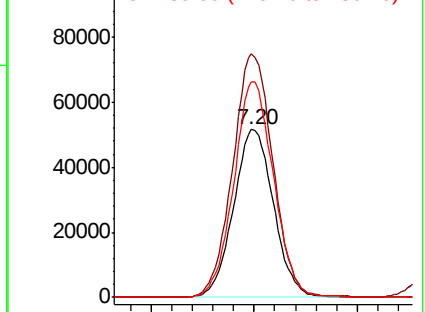
128 100

49 146.4 0.0 378.3

130 128.4 0.0 320.7



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: 14.71 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050501.D

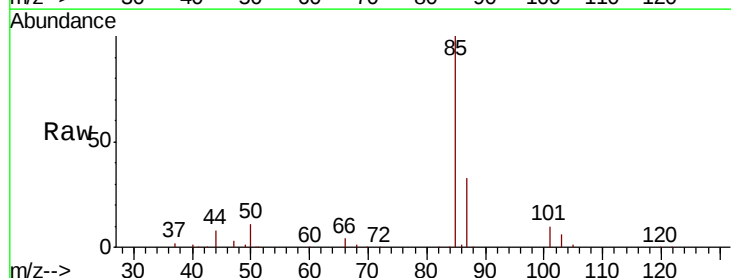
Acq: 9 Aug 2018 22:27

Tgt Ion: 85 Resp: 140745

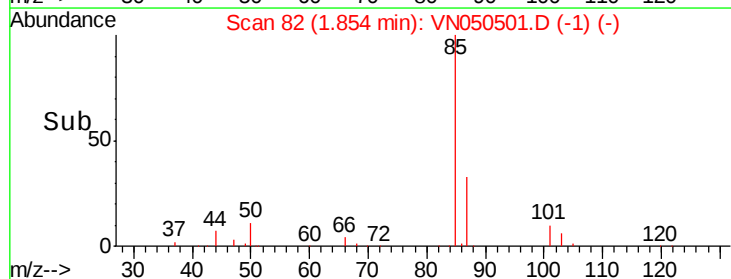
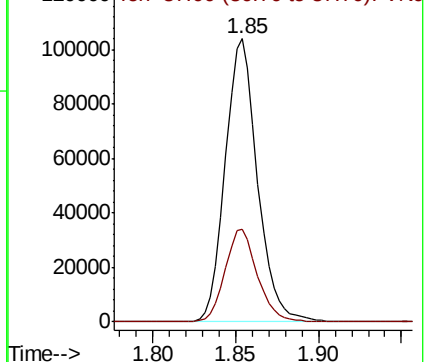
Ion Ratio Lower Upper

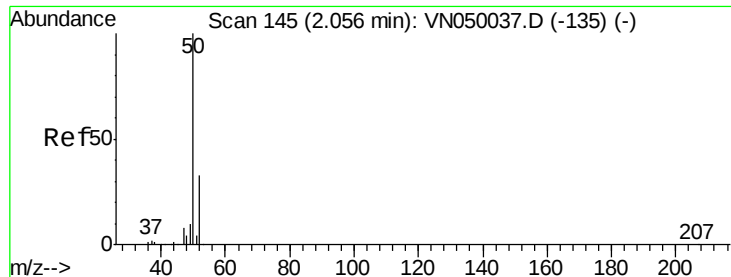
85 100

87 32.9 15.4 46.4



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





#3

Chloromethane

Concen: 17.26 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

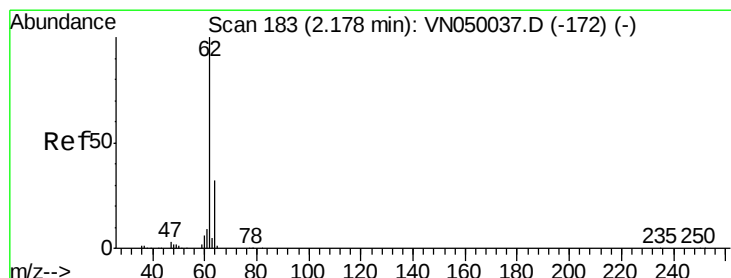
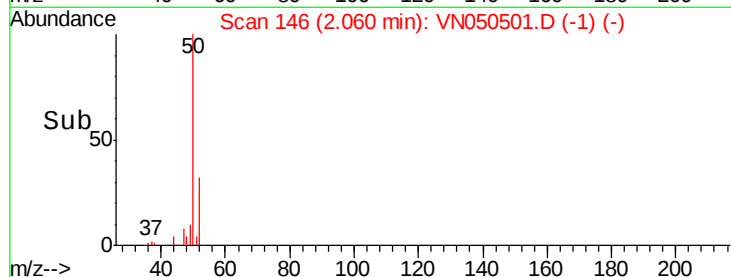
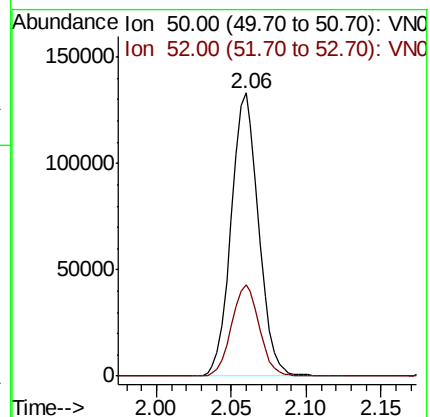
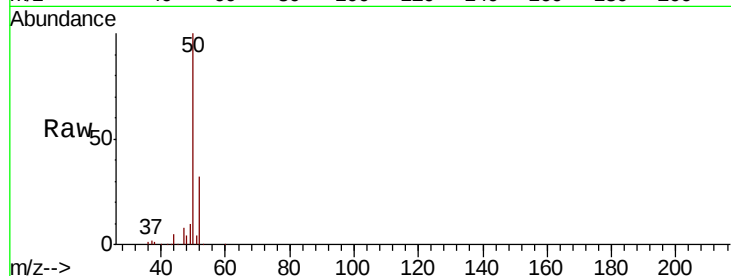
ClientSampled :

Tot Ion: 50 Resp: 170258

Ion Ratio Lower Upper

50 100

52 32.4 26.1 39.1



#4

Vinyl Chloride

Concen: 17.78 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.01 min

Lab File: VN050501.D

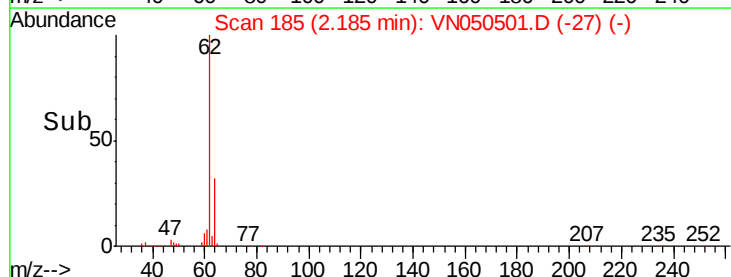
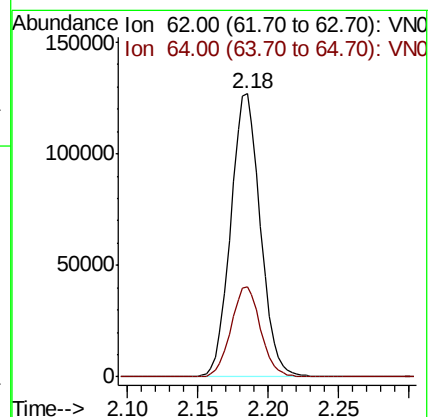
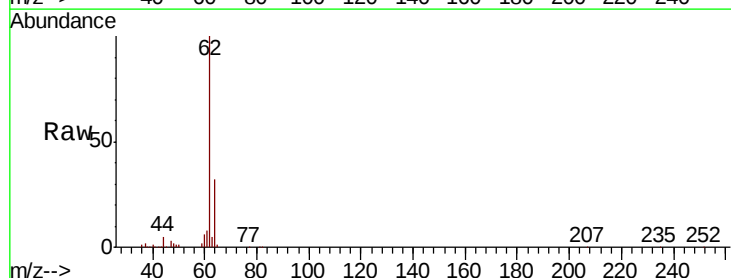
Acq: 9 Aug 2018 22:27

Tgt Ion: 62 Resp: 186756

Ion Ratio Lower Upper

62 100

64 31.7 24.4 36.6





#5

Bromomethane

Concen: 16.68 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

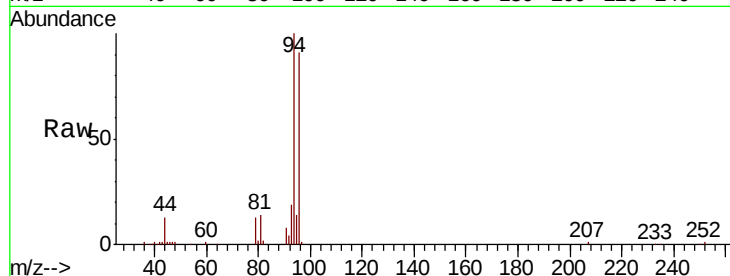
ClientSampleId :

Tot Ion: 94 Resp: 106790

Ion Ratio Lower Upper

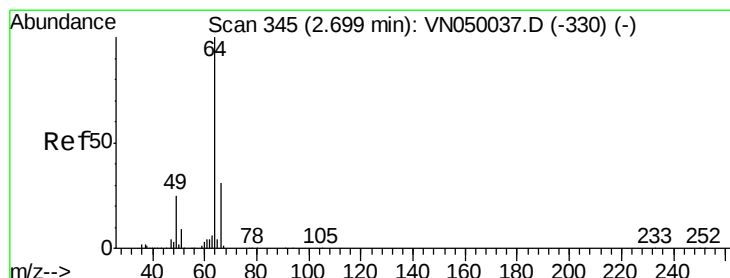
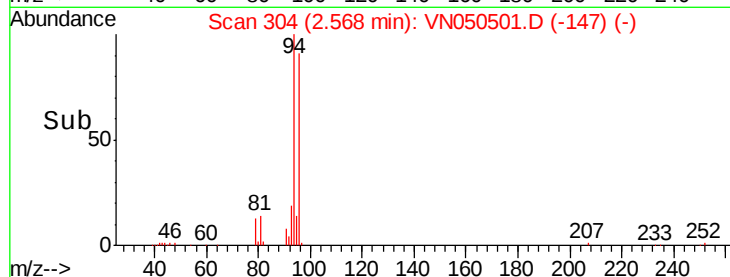
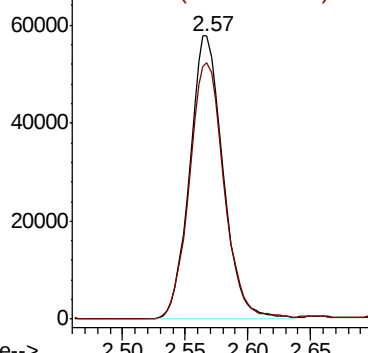
94 100

96 90.7 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 18.35 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050501.D

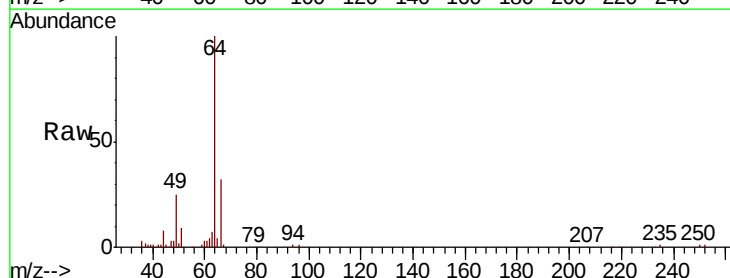
Acq: 9 Aug 2018 22:27

Tgt Ion: 64 Resp: 113966

Ion Ratio Lower Upper

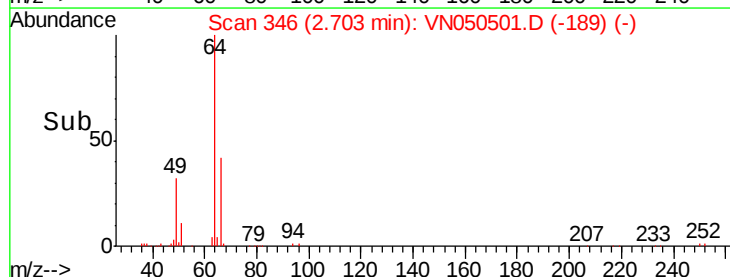
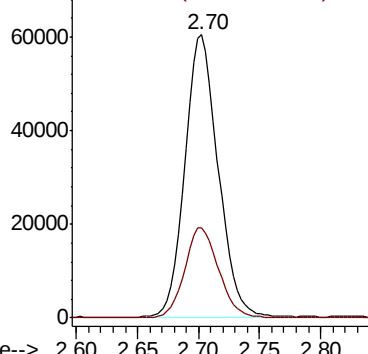
64 100

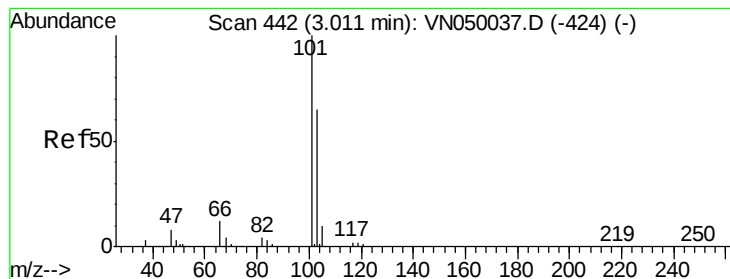
66 31.9 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

Trichlorofluoromethane

Concen: 18.65 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

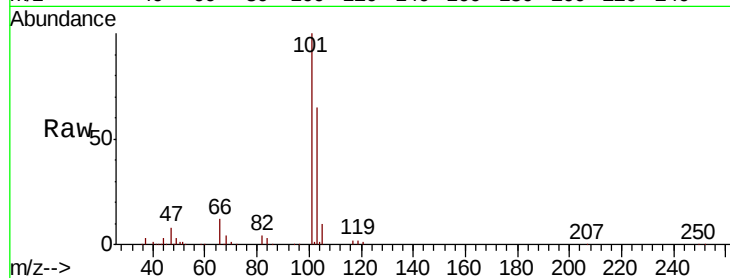
ClientSampleId :

Tot Ion:101 Resp: 255942

Ion Ratio Lower Upper

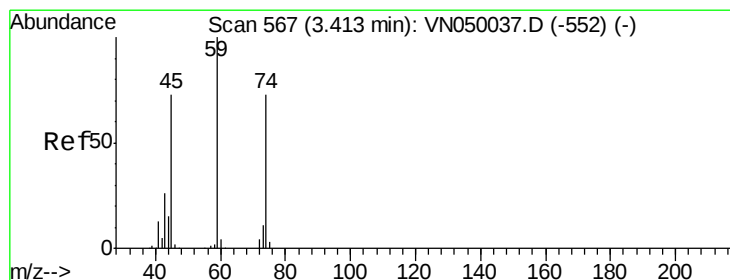
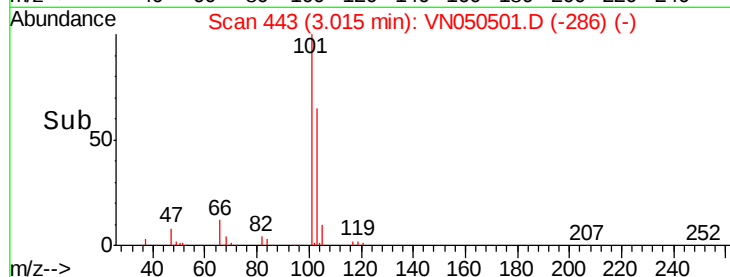
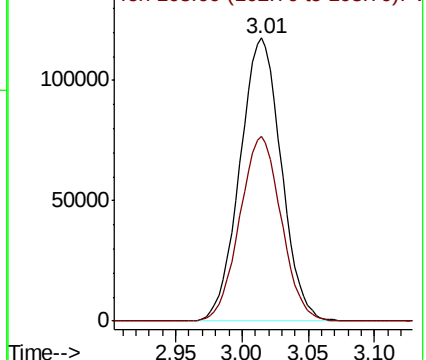
101 100

103 65.4 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 19.01 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050501.D

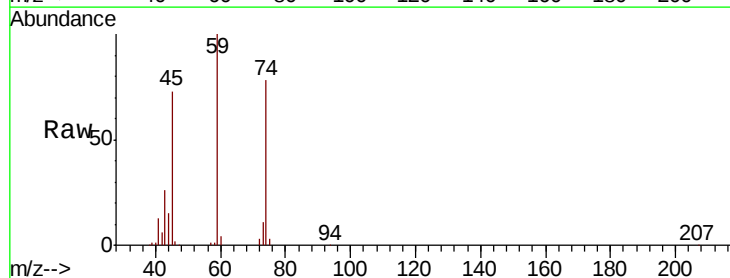
Acq: 9 Aug 2018 22:27

Tgt Ion: 74 Resp: 87511

Ion Ratio Lower Upper

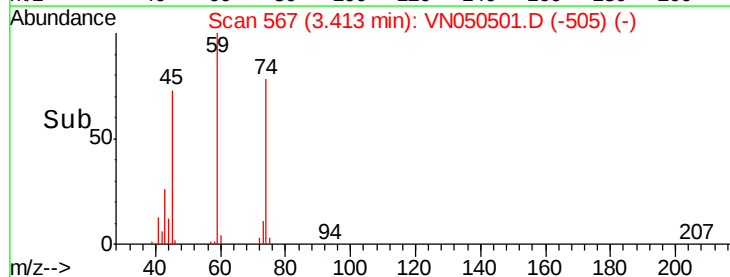
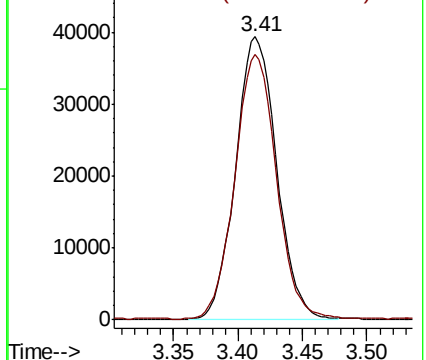
74 100

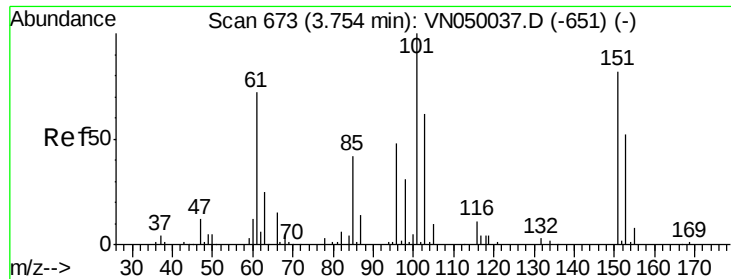
45 95.5 18.7 167.9



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.12 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

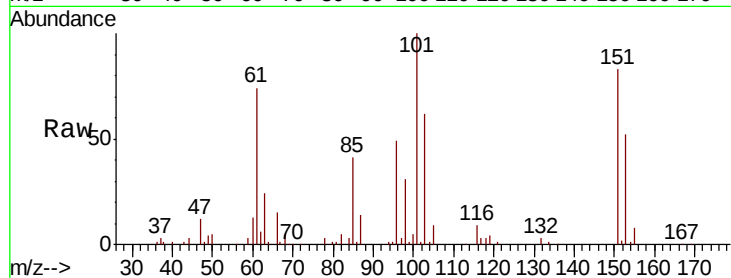
Tot Ion:101 Resp: 159637

Ion Ratio Lower Upper

101 100

85 41.7 0.0 83.0

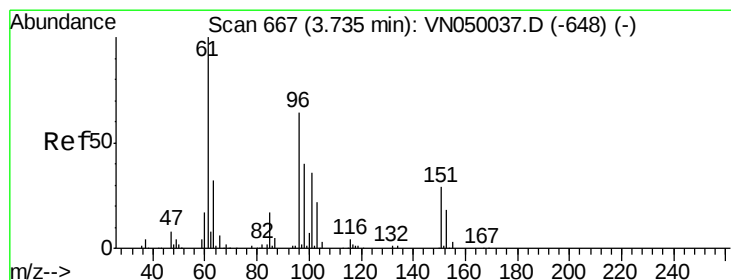
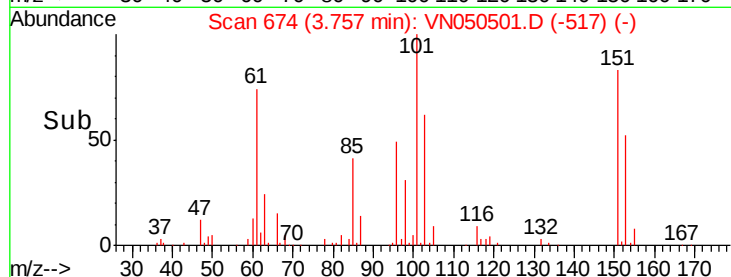
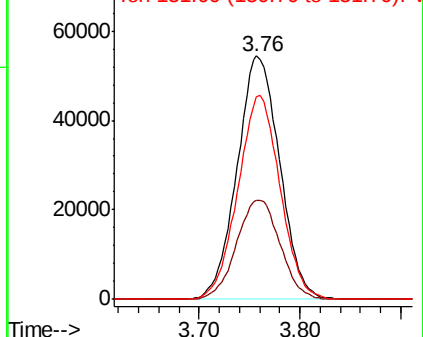
151 82.8 0.0 166.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.11 ug/l

RT: 3.74 min Scan# 668

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

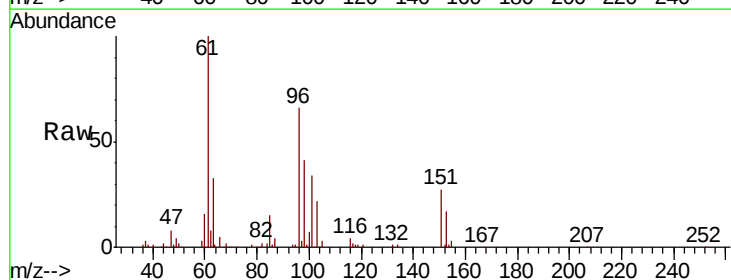
Tgt Ion: 96 Resp: 141452

Ion Ratio Lower Upper

96 100

61 151.1 130.6 195.8

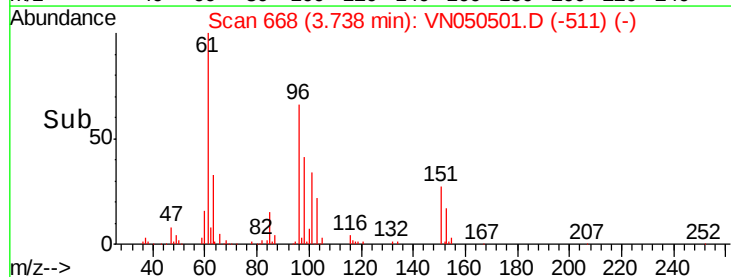
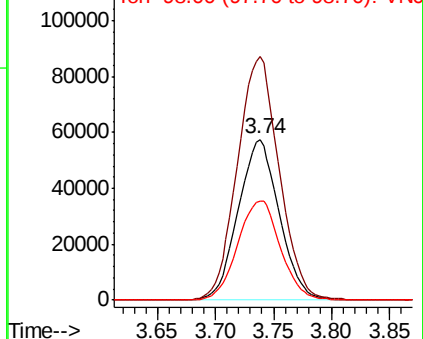
98 61.8 53.5 80.3

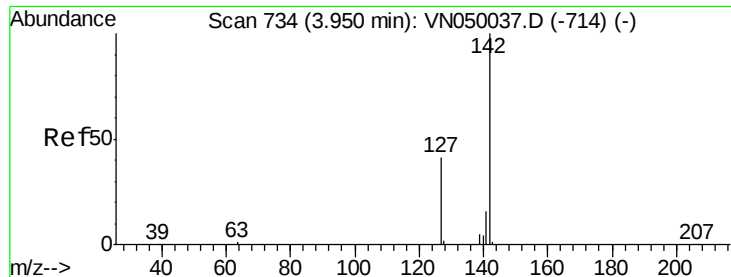


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

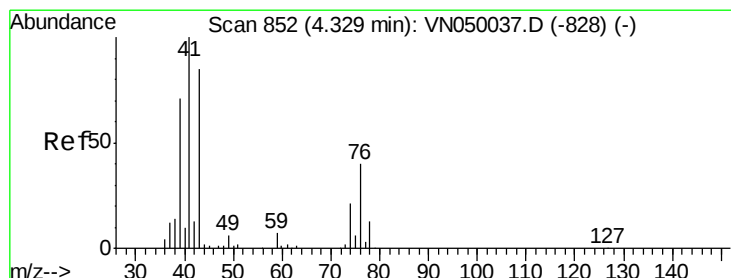
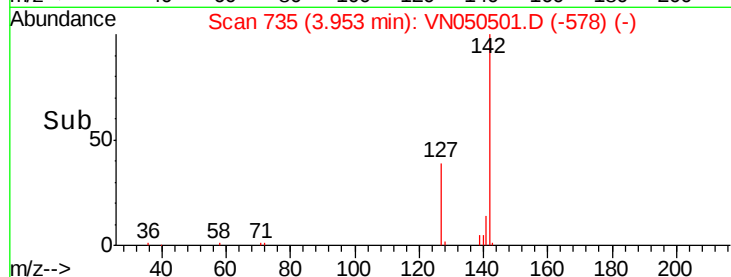
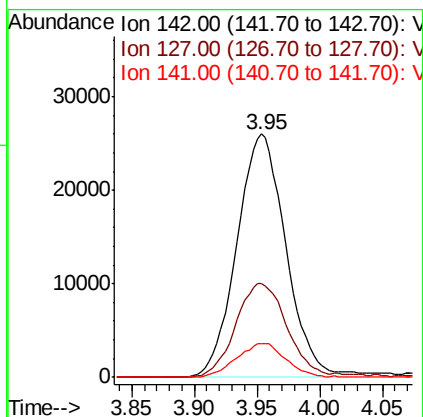
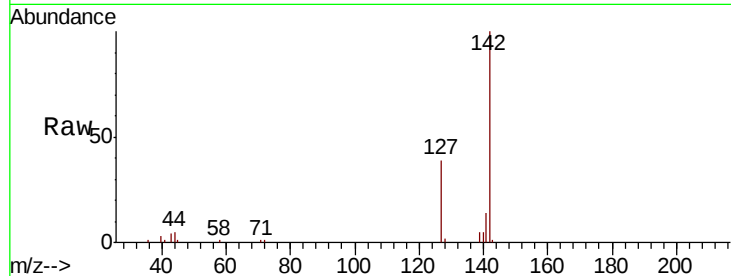




#11
Methyl Iodide
Concen: 6.45 ug/l
RT: 3.95 min Scan# 735
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

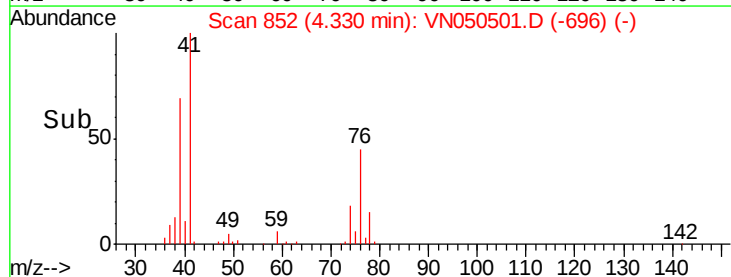
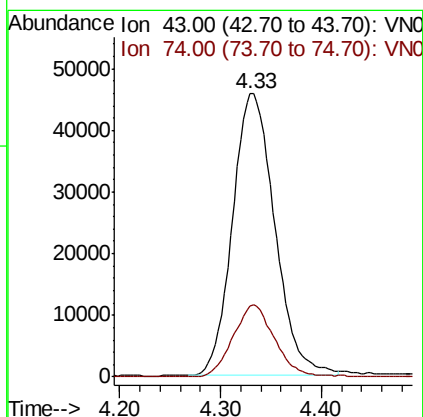
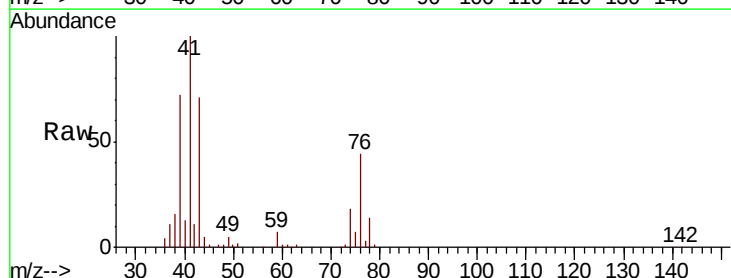
Instrument :
MSVOA_N
ClientSampleId :

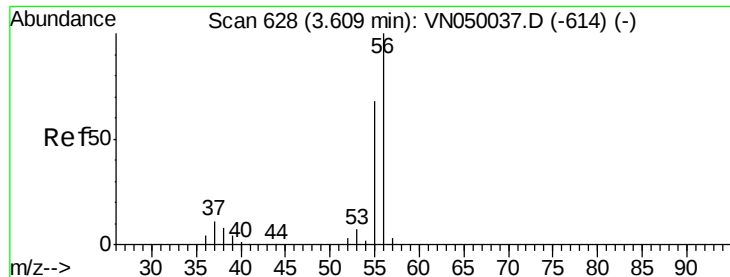
Tot Ion:142 Resp: 70304
Ion Ratio Lower Upper
142 100
127 38.3 20.2 60.5
141 14.2 6.9 20.6



#12
Methyl Acetate
Concen: 15.74 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 43 Resp: 133456
Ion Ratio Lower Upper
43 100
74 25.0 19.3 28.9





#13

Acrolein

Concen: 79.58 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

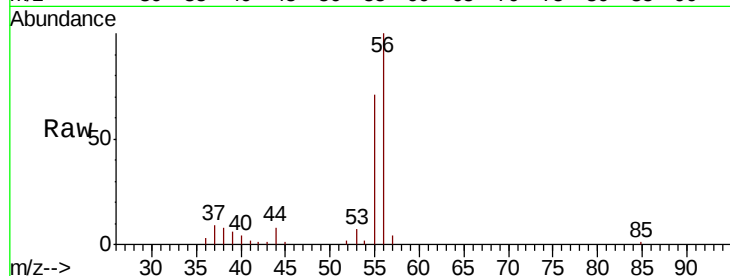
ClientSampleId :

Tot Ion: 56 Resp: 41708

Ion Ratio Lower Upper

56 100

55 71.6 58.6 88.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

15000

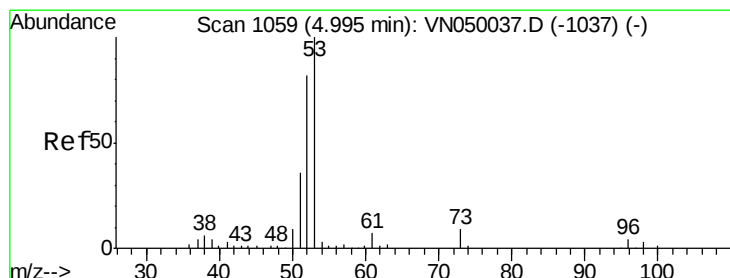
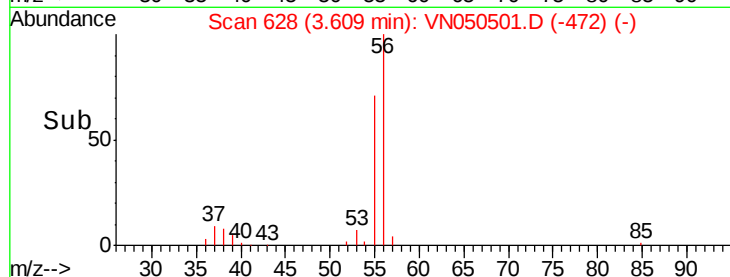
10000

5000

0

3.55 3.60 3.65 3.70

Time-->



#14

Acrylonitrile

Concen: 87.98 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

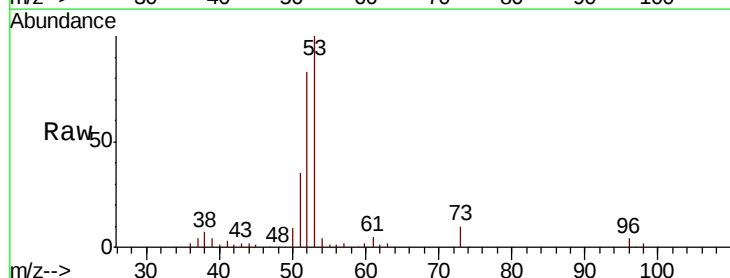
Tgt Ion: 53 Resp: 248969

Ion Ratio Lower Upper

53 100

52 83.7 41.5 124.5

51 36.7 18.7 56.1



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

80000

60000

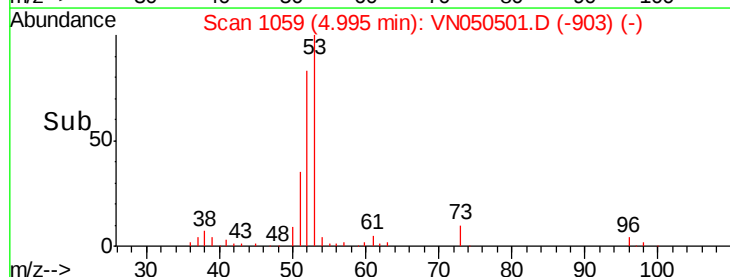
40000

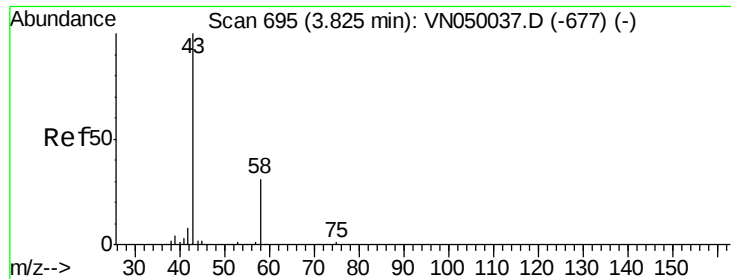
20000

0

4.90 5.00 5.10

Time-->





#15

Acetone

Concen: 100.60 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

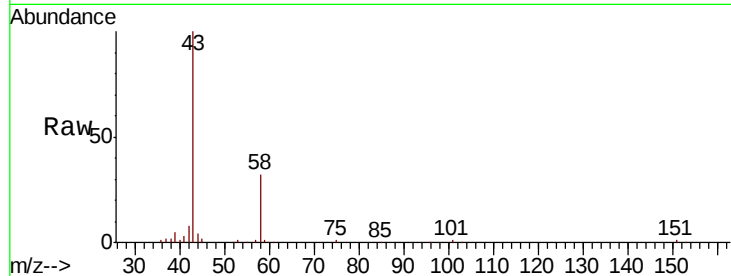
ClientSampled :

Tot Ion: 58 Resp: 75657

Ion Ratio Lower Upper

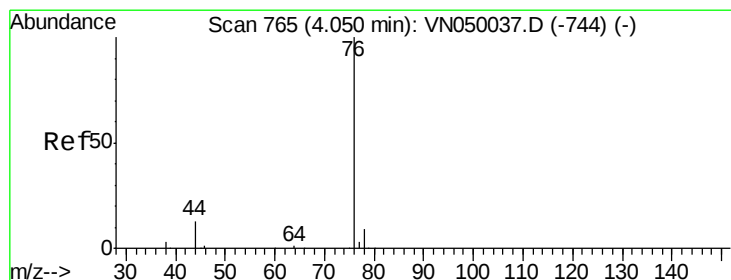
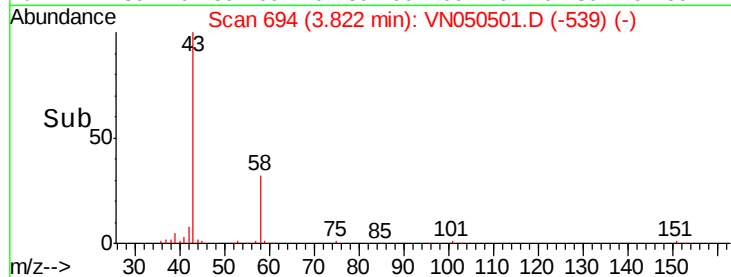
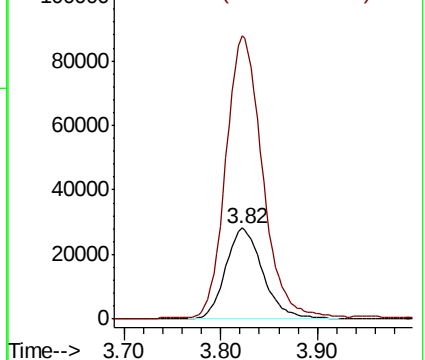
58 100

43 308.2 252.0 378.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 18.04 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050501.D

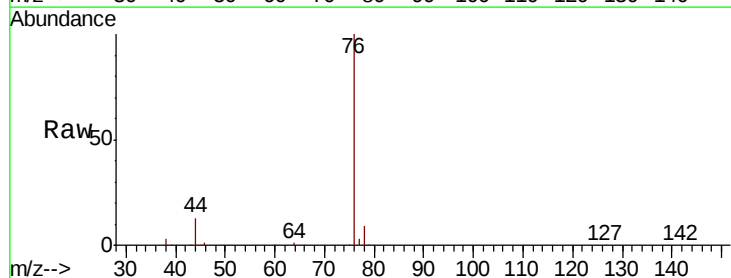
Acq: 9 Aug 2018 22:27

Tgt Ion: 76 Resp: 408655

Ion Ratio Lower Upper

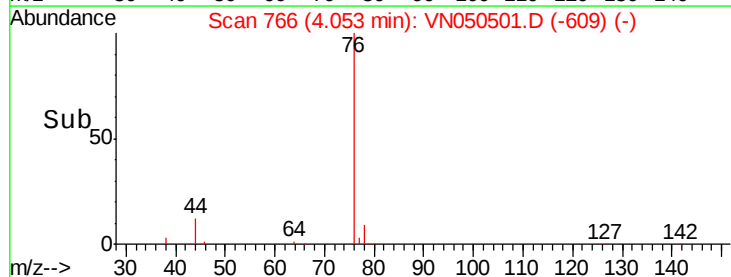
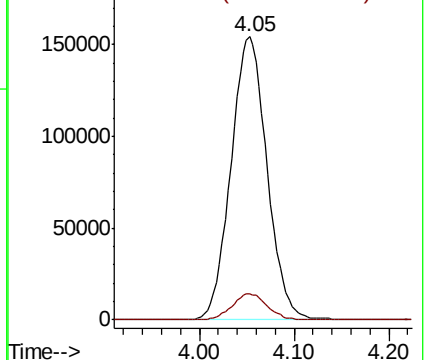
76 100

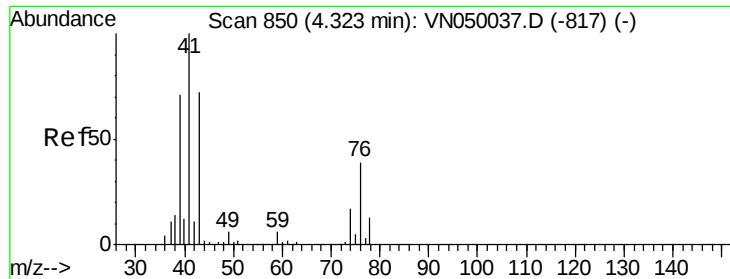
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

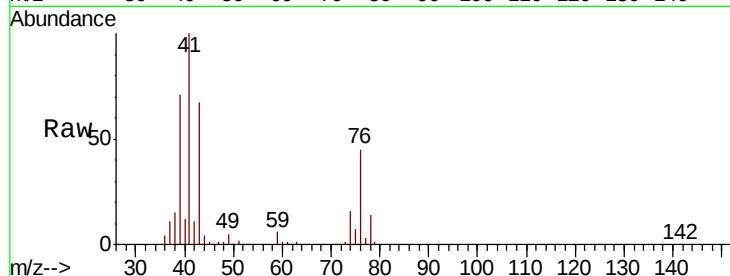




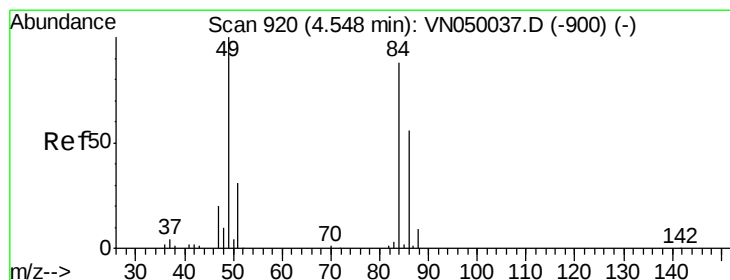
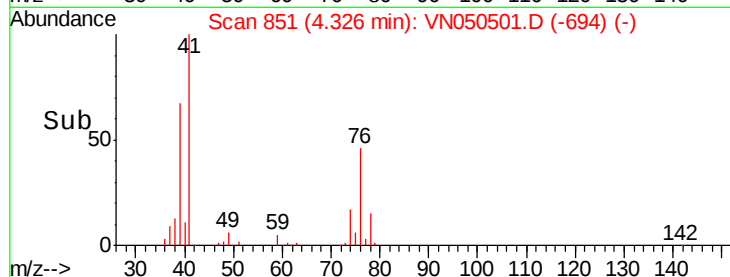
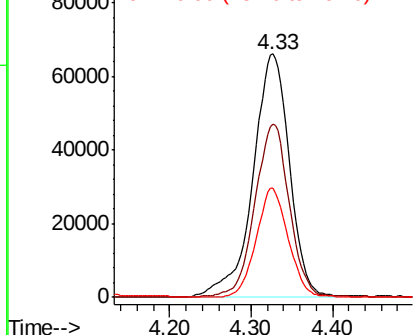
#17
Allvl chloride
Concen: 17.62 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 206028
Ion Ratio Lower Upper
41 100
39 71.2 35.4 106.3
76 44.3 19.7 59.1

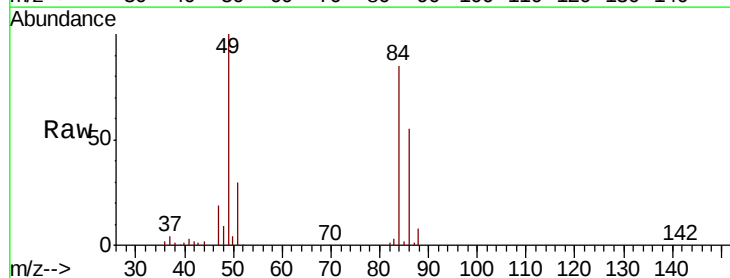


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 76.00 (75.70 to 76.70): VN0

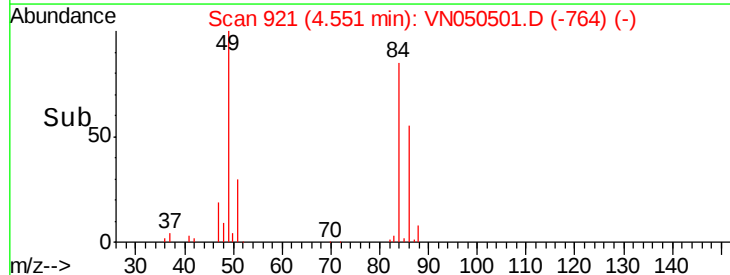
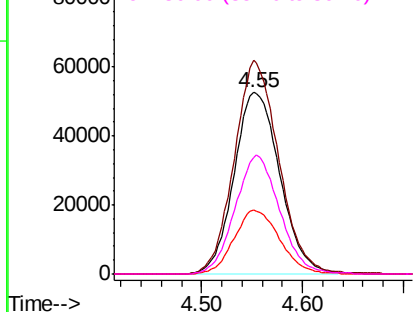


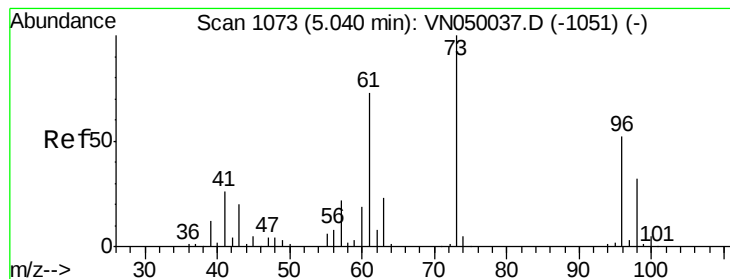
#18
Methylene Chloride
Concen: 19.45 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 84 Resp: 166182
Ion Ratio Lower Upper
84 100
49 117.4 95.1 142.7
51 35.0 28.8 43.2
86 64.4 52.3 78.5



Abundance Ion 84.00 (83.70 to 84.70): VN0
Ion 49.00 (48.70 to 49.70): VN0
Ion 51.00 (50.70 to 51.70): VN0
Ion 86.00 (85.70 to 86.70): VN0





#19

trans-1,2-Dichloroethene

Concen: 19.13 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.01 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :
MSVOA_N
ClientSampled :

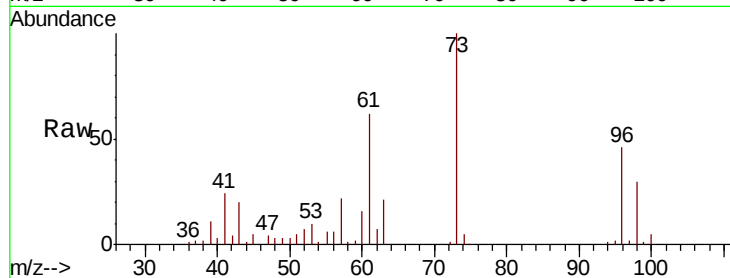
Tot Ion: 96 Resp: 151657

Ion Ratio Lower Upper

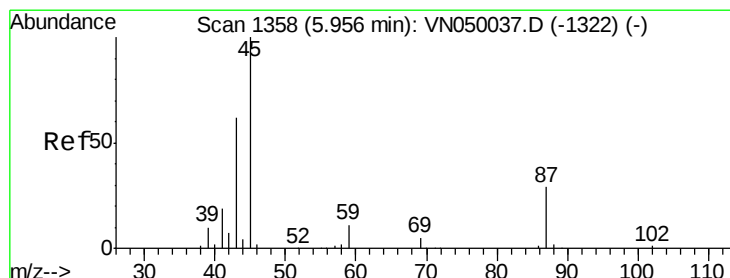
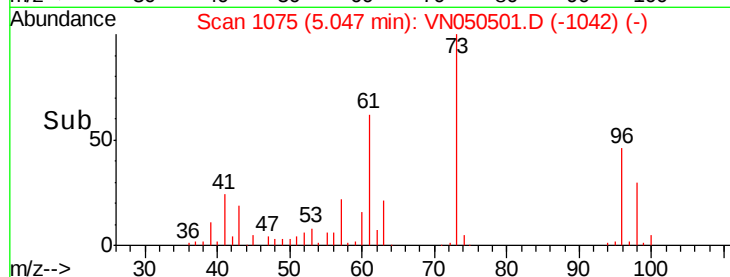
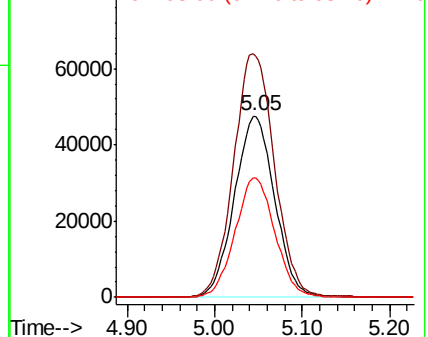
96 100

61 132.5 112.1 168.1

98 65.7 51.3 76.9



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: 20.08 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Tgt Ion: 45 Resp: 481483

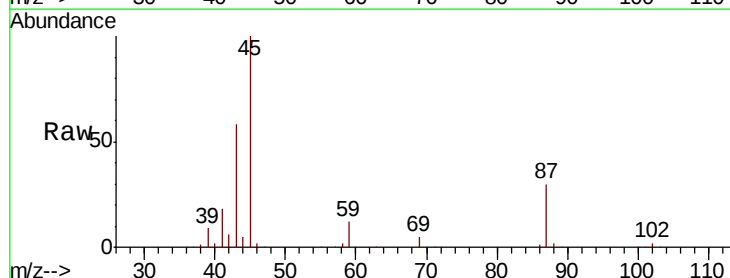
Ion Ratio Lower Upper

45 100

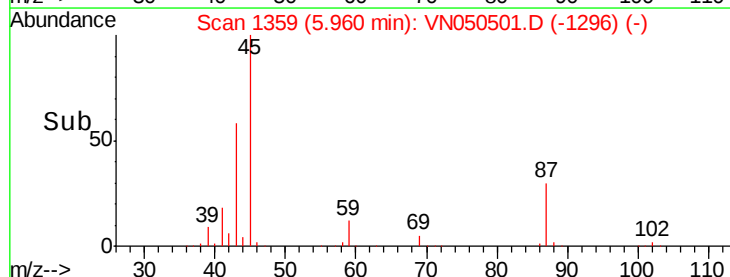
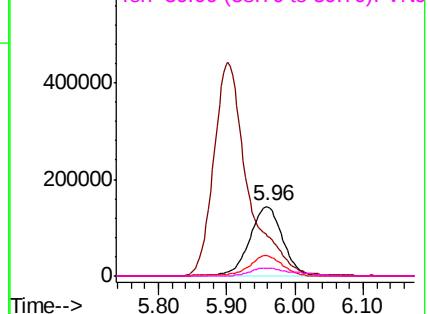
43 56.5 46.6 70.0

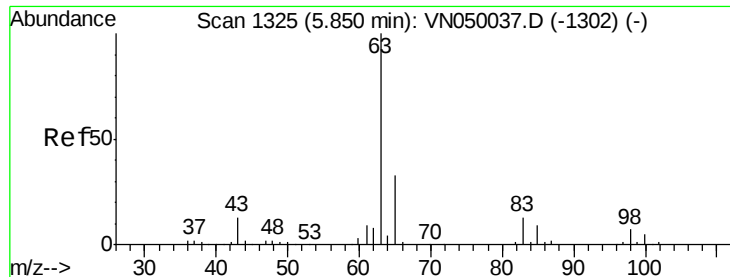
87 29.6 22.3 33.5

59 11.5 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

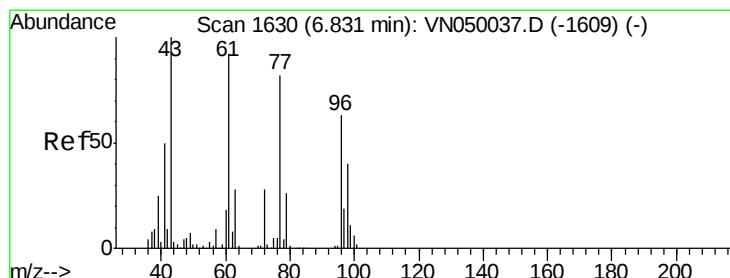
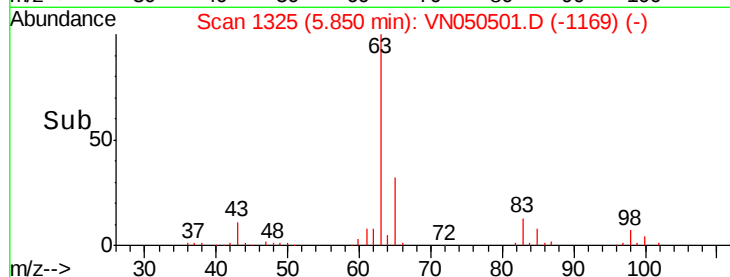
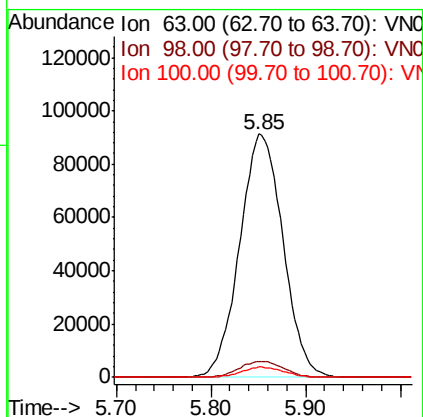
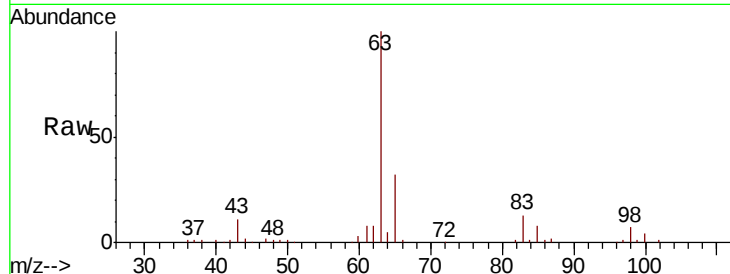




#21
 1,1-Dichloroethane
 Concen: 19.26 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

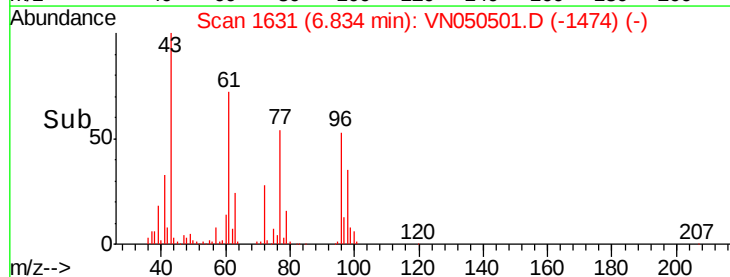
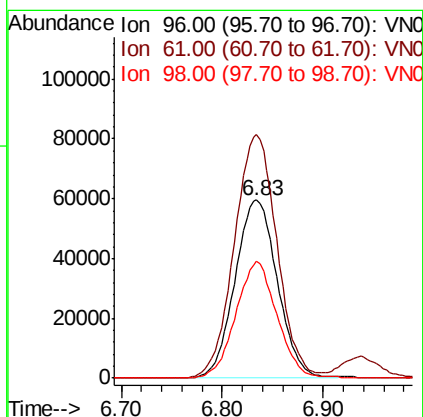
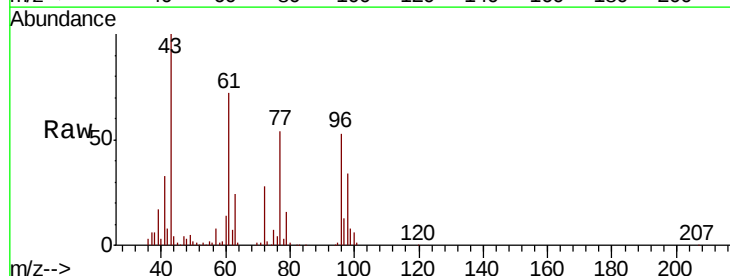
Instrument :
 MSVOA_N
 ClientSampleId :

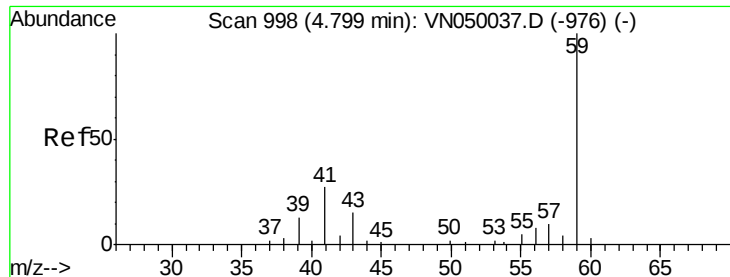
Tot Ion	63	Resp	290403
Ion Ratio	Lower	Upper	
63	100		
98	6.6	3.5	10.6
100	4.2	2.3	6.8



#22
 cis-1,2-Dichloroethene
 Concen: 19.76 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion	96	Resp	173688
Ion Ratio	Lower	Upper	
96	100		
61	137.5	114.2	171.2
98	63.4	51.7	77.5

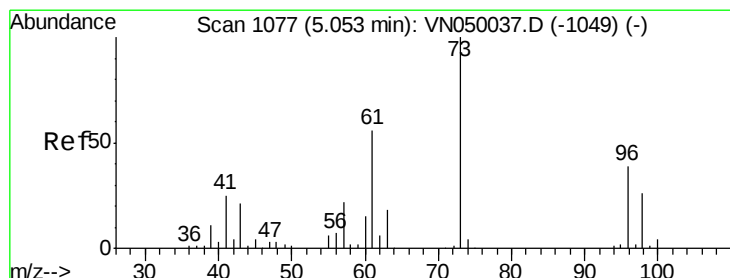
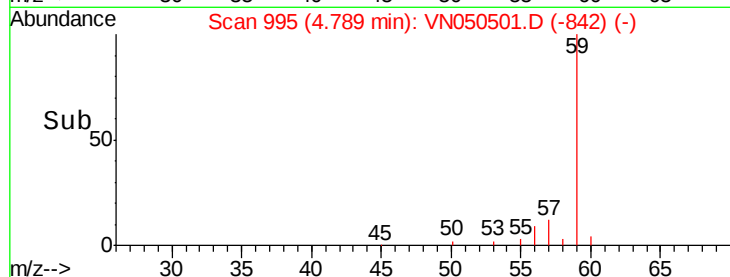
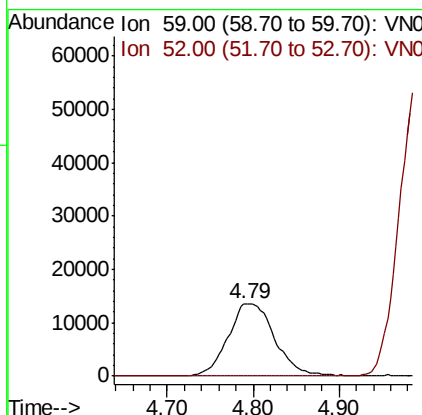
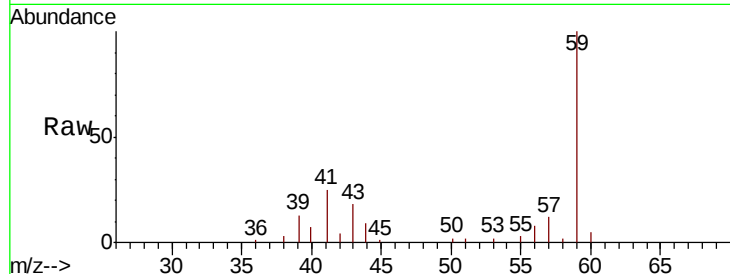




#23
tert-Butyl Alcohol
Concen: 81.22 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.01 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

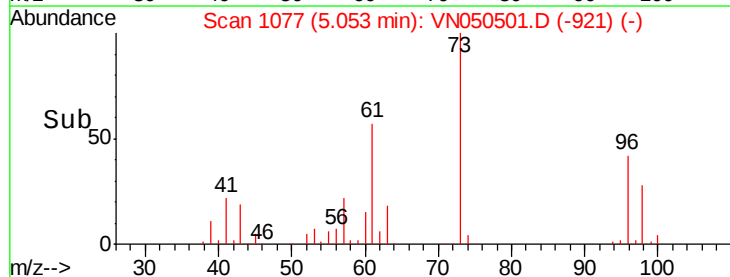
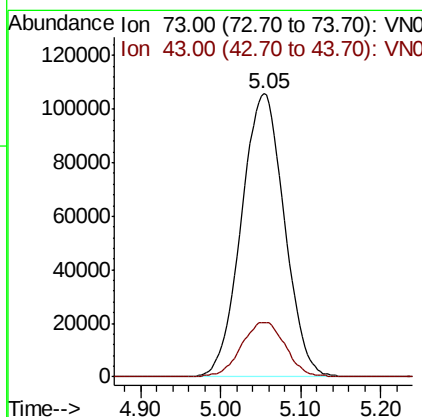
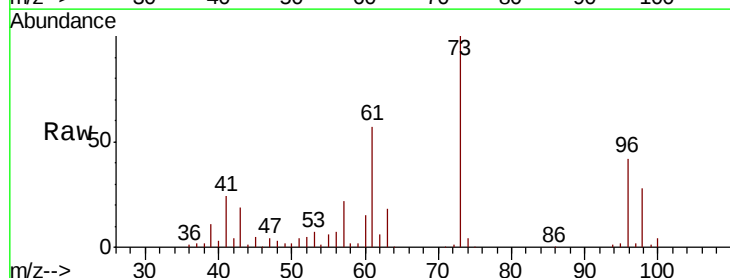
Instrument :
MSVOA_N
ClientSampled :

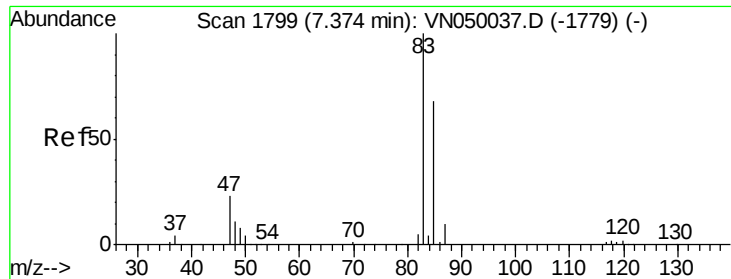
Tot Ion: 59 Resp: 51358
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#24
Methyl tert-Butyl Ether
Concen: 19.21 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 73 Resp: 387803
Ion Ratio Lower Upper
73 100
43 19.8 15.5 23.3

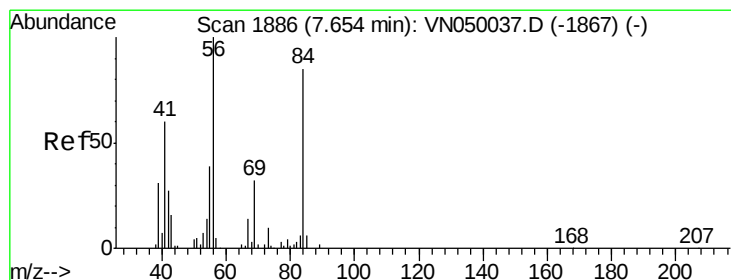
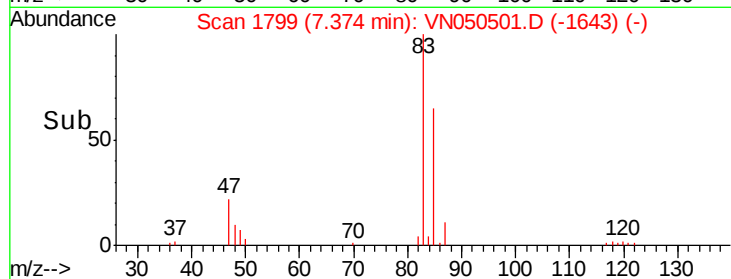
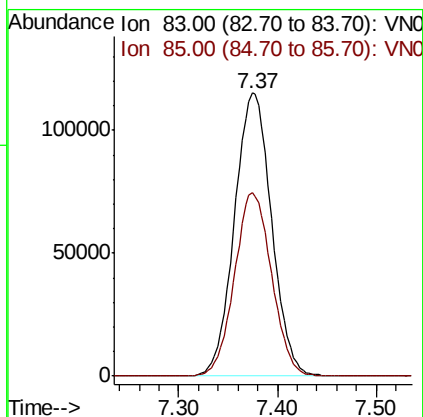
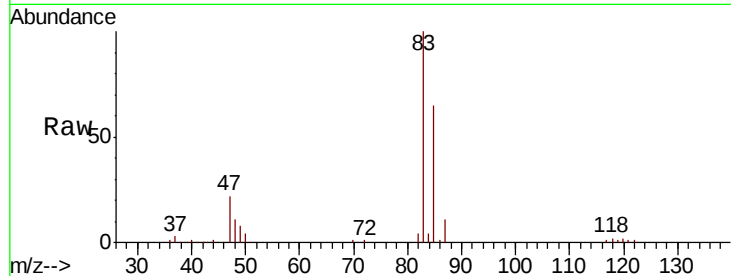




#25
Chloroform
Concen: 19.71 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

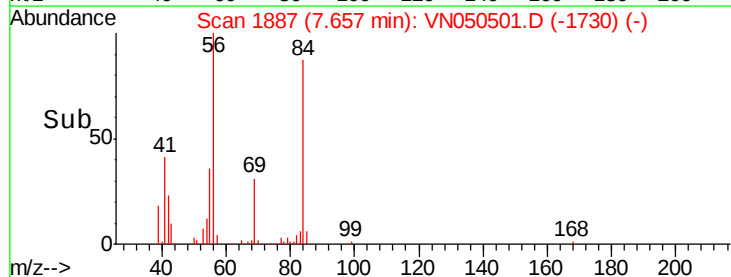
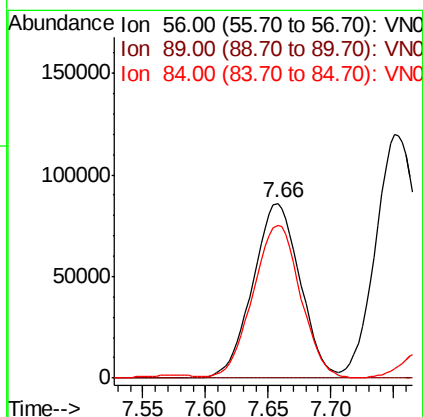
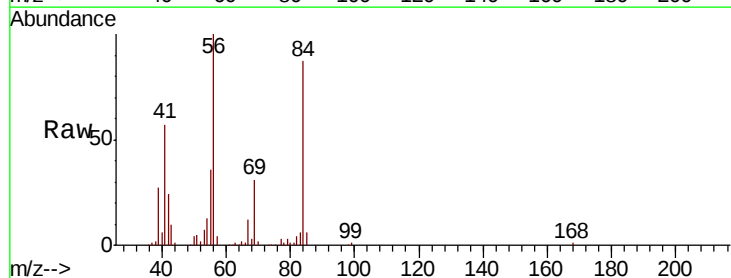
Instrument :
MSVOA_N
ClientSampled :

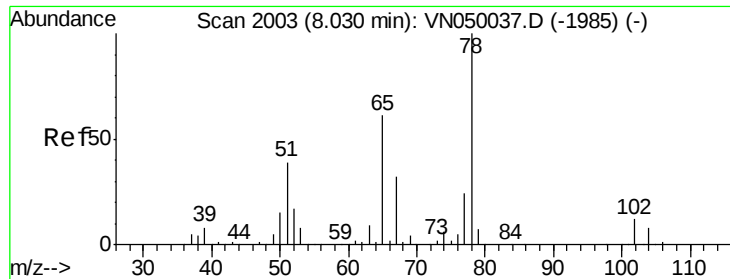
Tot Ion: 83 Resp: 300734
Ion Ratio Lower Upper
83 100
85 64.7 52.1 78.1



#26
Cyclohexane
Concen: 18.81 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 56 Resp: 225358
Ion Ratio Lower Upper
56 100
89 0.0 3.0 4.4#
84 88.4 69.8 104.8





#27

1,2-Dichloroethane-d4

Concen: 28.87 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

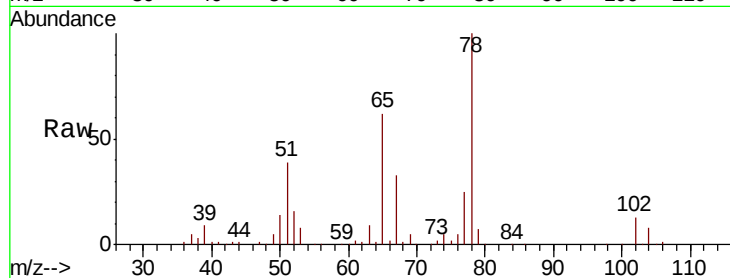
ClientSampled :

Tot Ion: 65 Resp: 272481

Ion Ratio Lower Upper

65 100

67 53.1 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

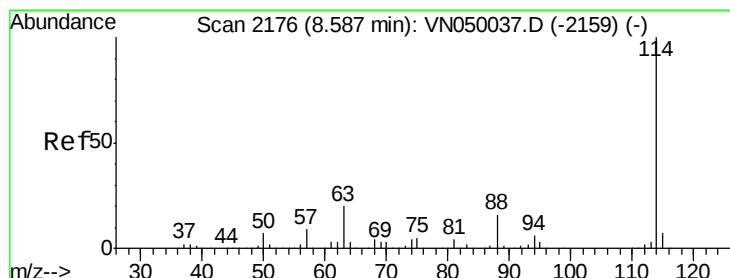
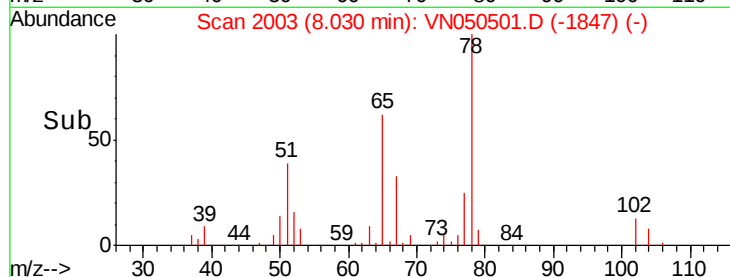
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

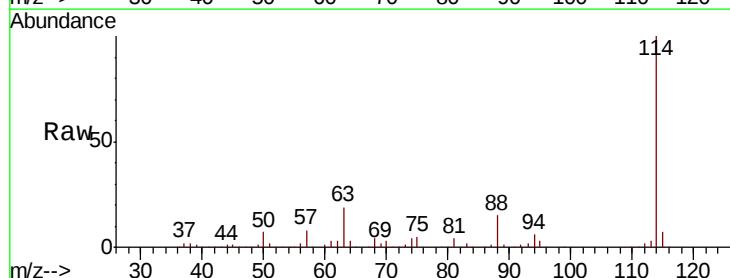
Tgt Ion: 114 Resp: 723753

Ion Ratio Lower Upper

114 100

63 19.4 16.2 24.2

88 15.3 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.59

400000

300000

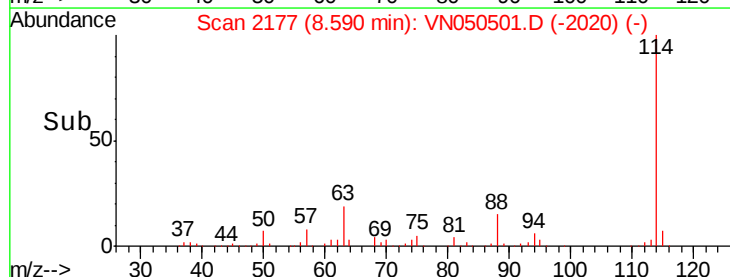
200000

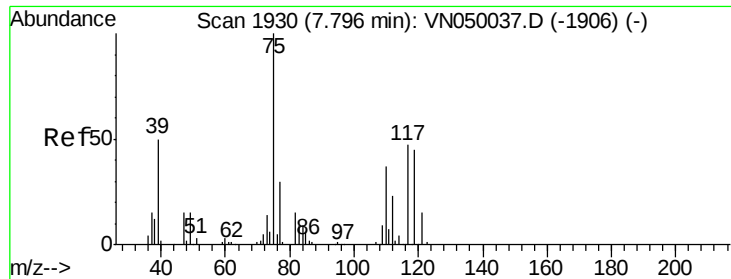
100000

0

8.50 8.55 8.60 8.65

Time-->

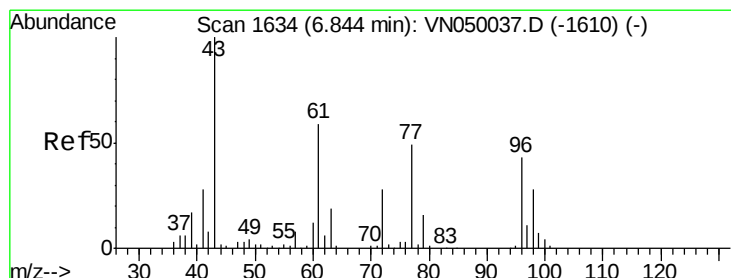
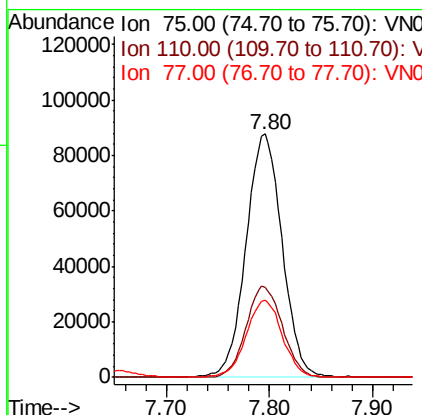
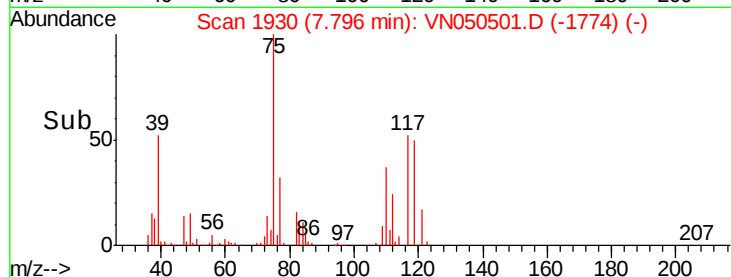
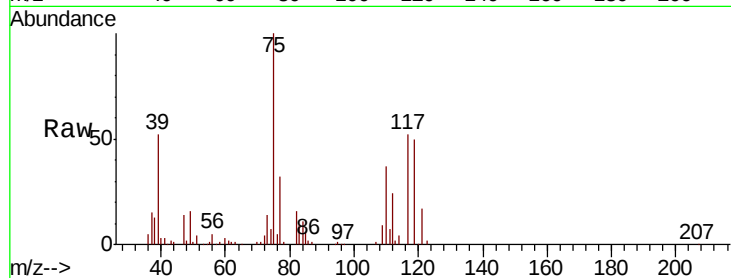




#29
 1,1-Dichloropropene
 Concen: 19.00 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

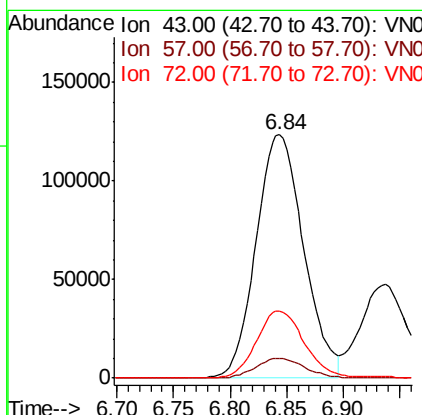
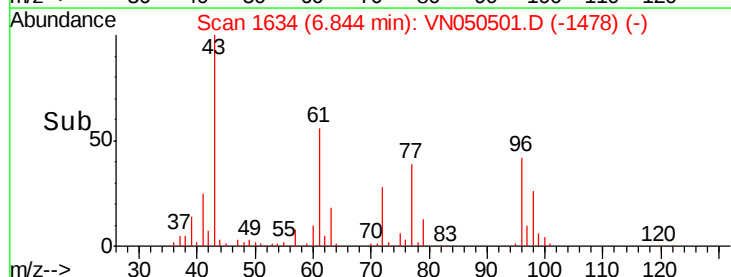
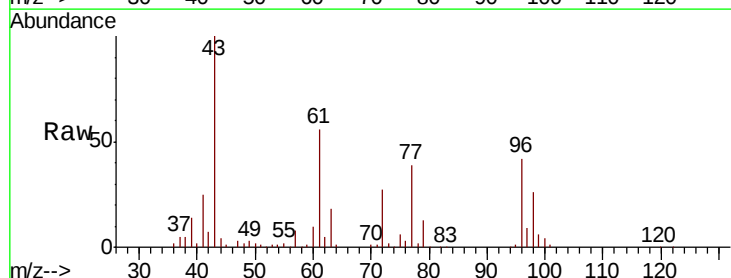
Instrument :
 MSVOA_N
 ClientSampled :

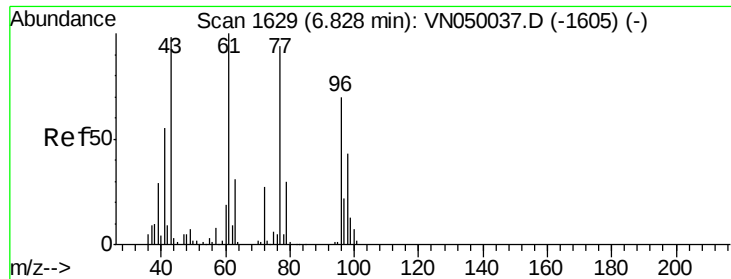
Tot Ion: 75 Resp: 213420
 Ion Ratio Lower Upper
 75 100
 110 37.5 0.0 73.2
 77 31.7 0.0 62.0



#30
 2-Butanone
 Concen: 101.94 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion: 43 Resp: 359292
 Ion Ratio Lower Upper
 43 100
 57 8.4 6.8 10.2
 72 27.7 21.4 32.0





#31

2,2-Dichloropropane

Concen: 16.05 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

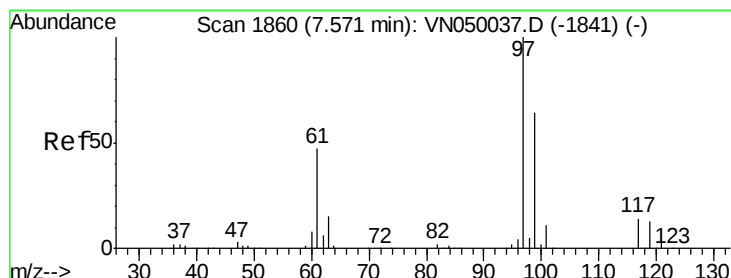
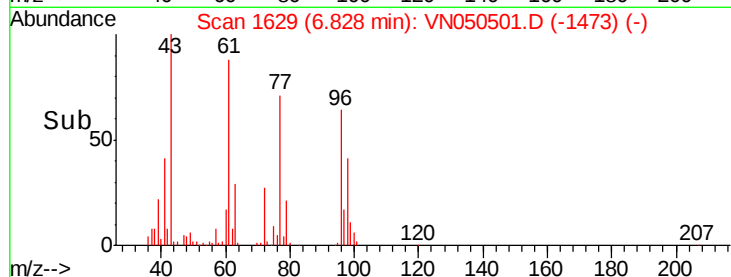
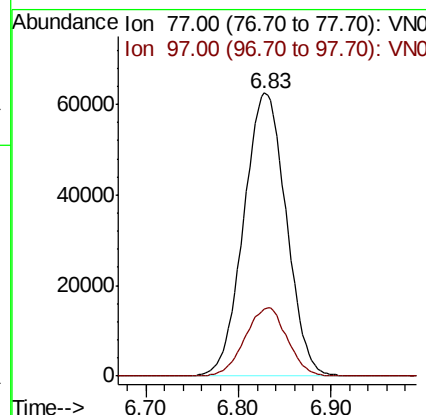
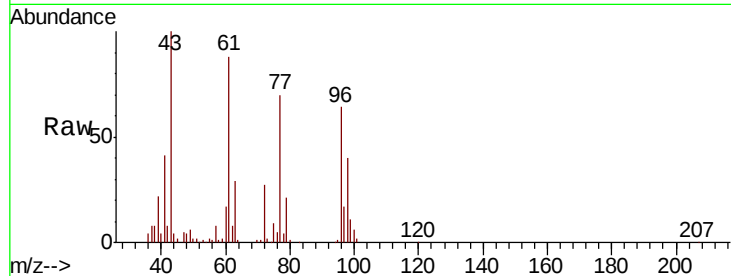
ClientSampleId :

Tot Ion: 77 Resp: 199236

Ion Ratio Lower Upper

77 100

97 23.9 18.9 28.3



#32

1,1,1-Trichloroethane

Concen: 19.12 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

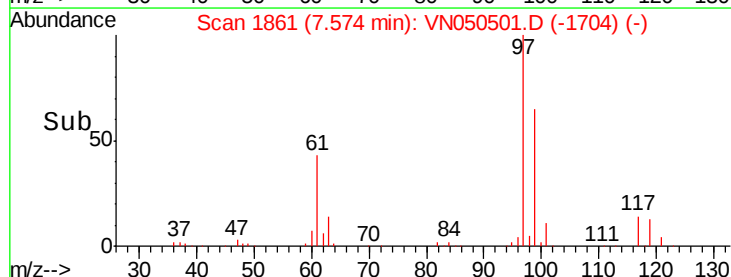
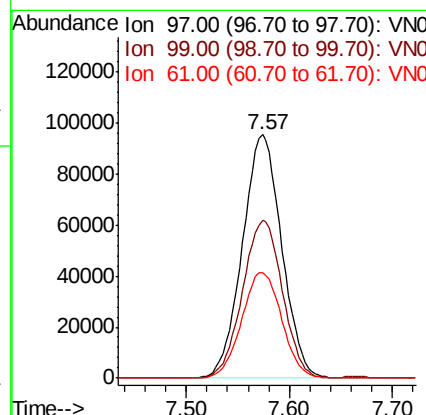
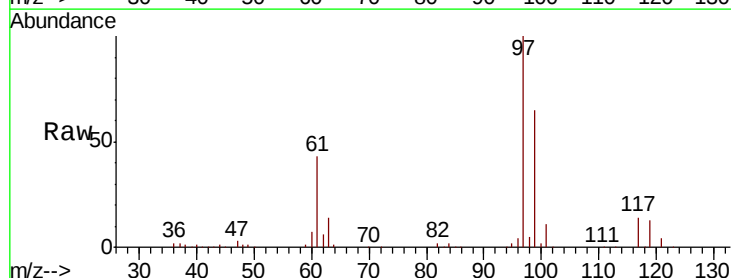
Tgt Ion: 97 Resp: 252840

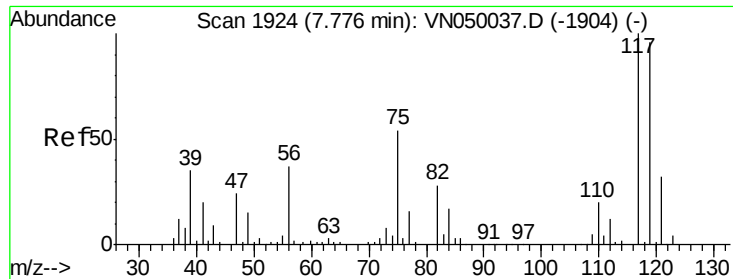
Ion Ratio Lower Upper

97 100

99 65.7 51.2 76.8

61 44.2 35.3 52.9

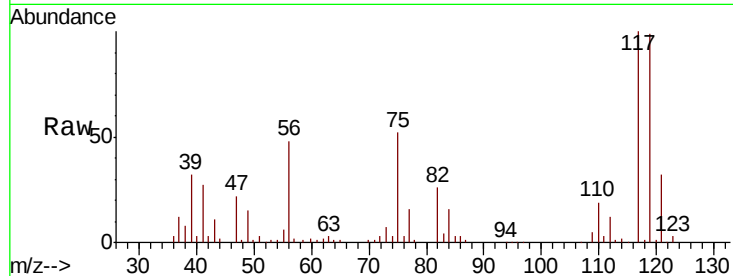




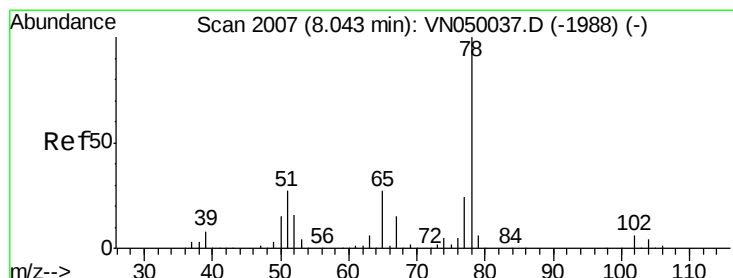
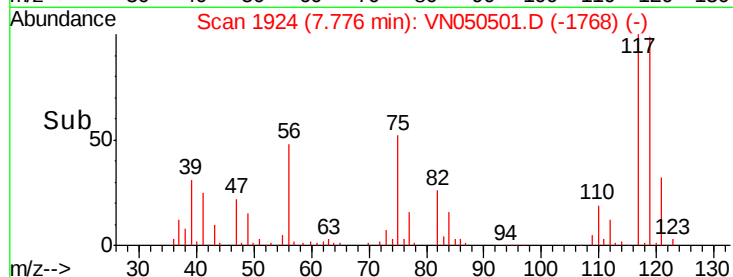
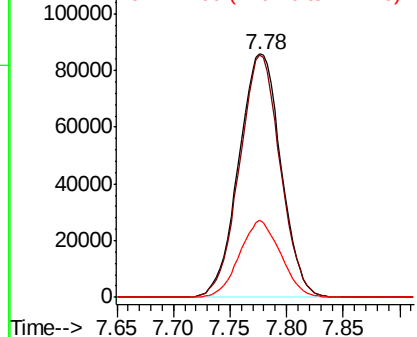
#33
Carbon Tetrachloride
Concen: 18.89 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 222678
Ion Ratio Lower Upper
117 100
119 99.5 76.9 115.3
121 31.6 24.4 36.6

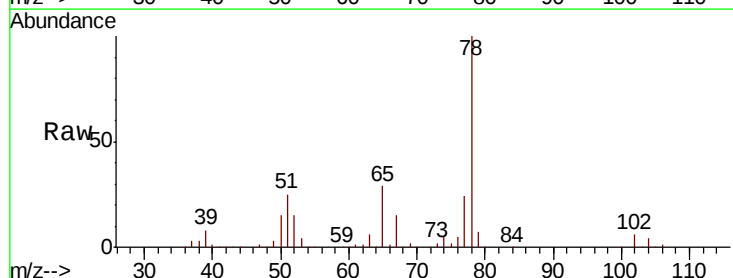


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

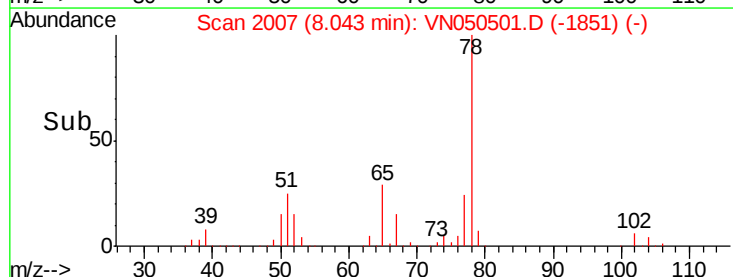
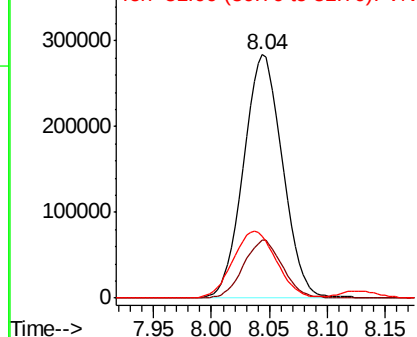


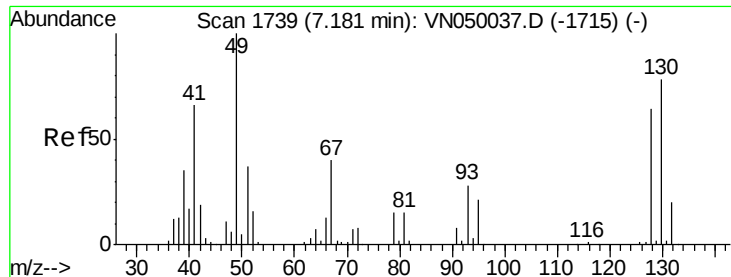
#34
Benzene
Concen: 19.50 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 78 Resp: 665327
Ion Ratio Lower Upper
78 100
77 23.6 19.1 28.7
51 25.2 21.0 31.4



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

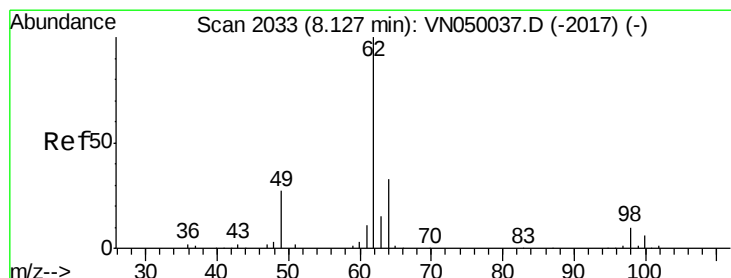
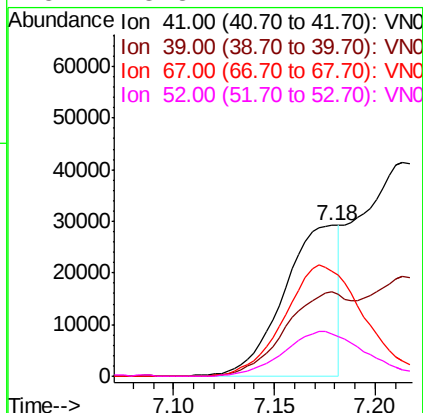
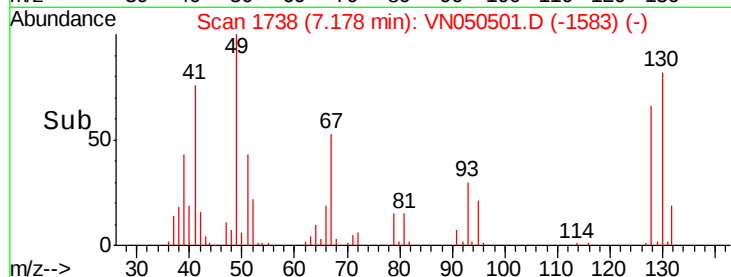
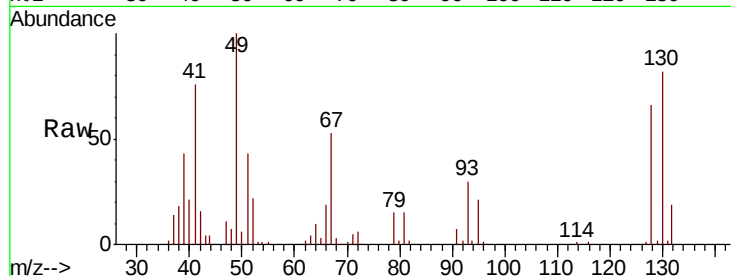




#35
Methacrylonitrile
Concen: 13.73 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

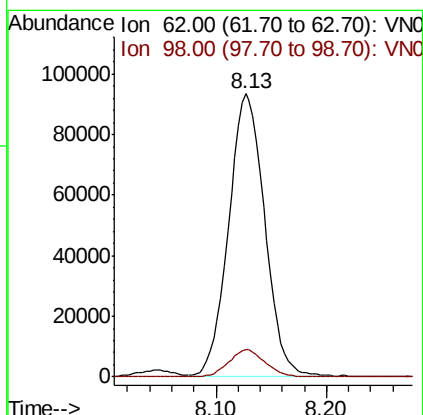
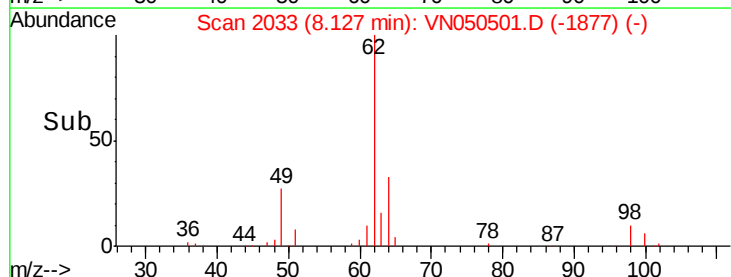
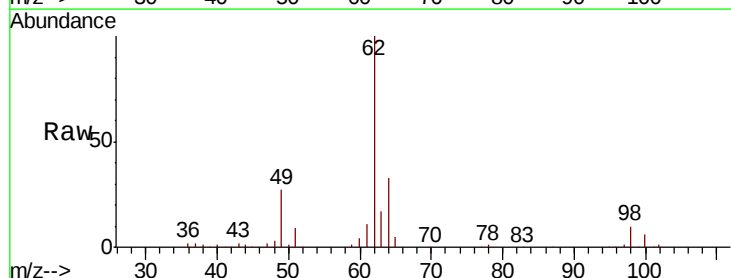
Instrument :
MSVOA_N
ClientSampleId :

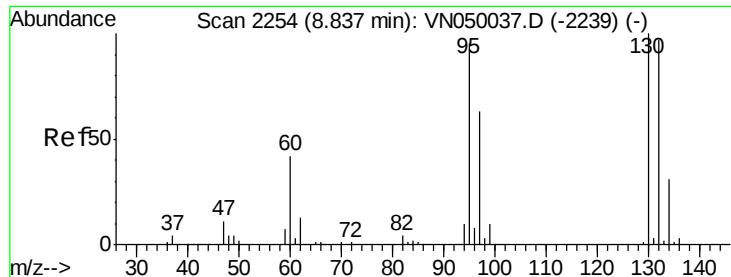
Tot Ion: 41 Resp: 55082
Ion Ratio Lower Upper
41 100
39 55.8 27.6 82.7
67 70.1 35.1 105.5
52 28.3 14.1 42.4



#36
1,2-Dichloroethane
Concen: 18.81 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 62 Resp: 210657
Ion Ratio Lower Upper
62 100
98 9.5 7.8 11.6

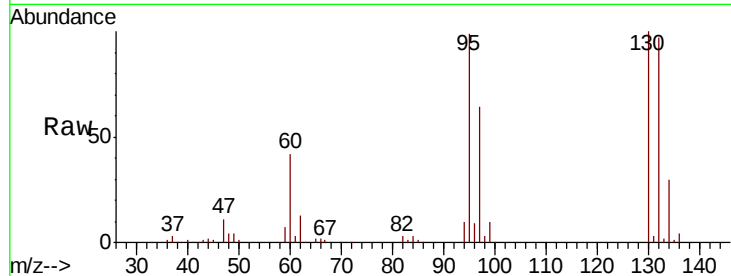




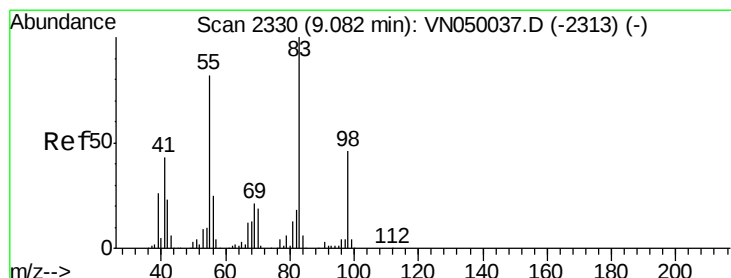
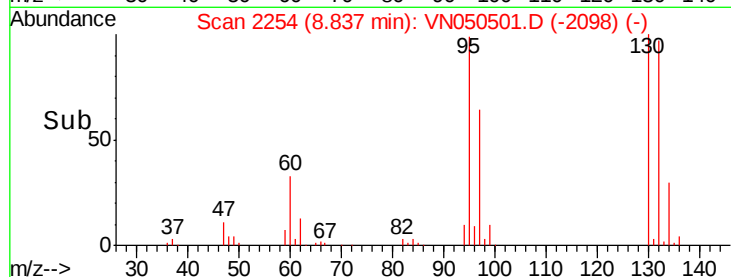
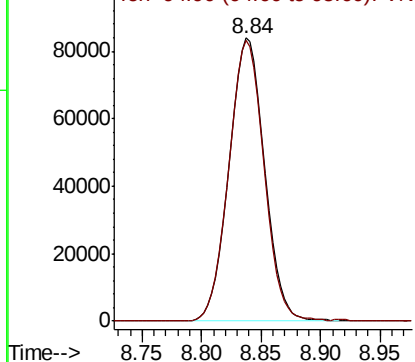
#37
 Trichloroethene
 Concen: 19.39 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:130 Resp: 173517
 Ion Ratio Lower Upper
 130 100
 95 99.0 79.7 119.5

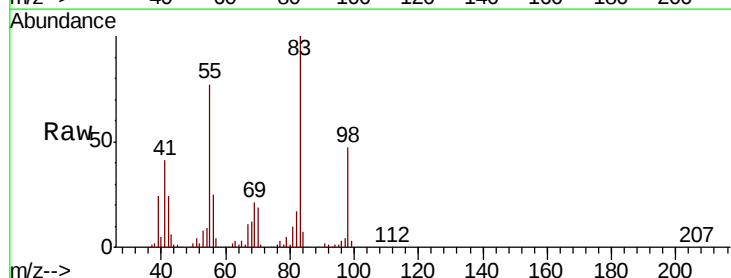


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

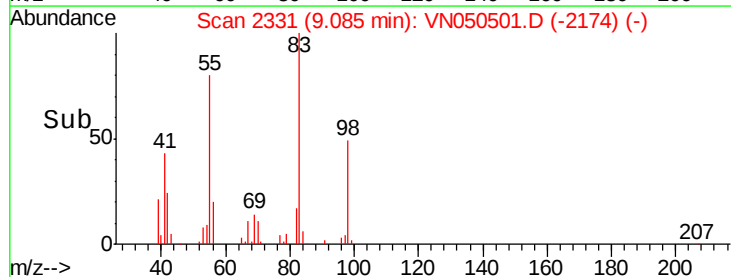
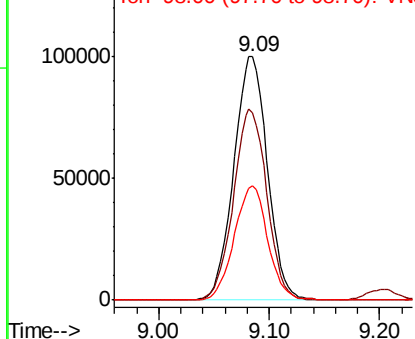


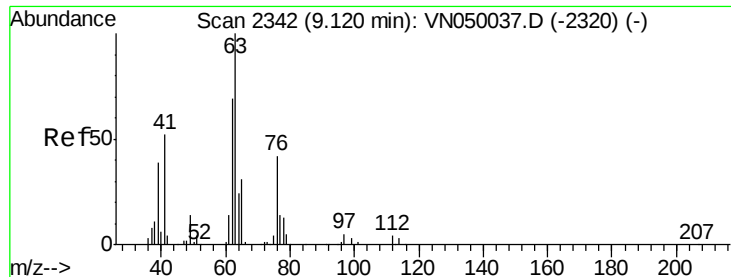
#38
 Methylcyclohexane
 Concen: 17.88 ug/l
 RT: 9.09 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion: 83 Resp: 211714
 Ion Ratio Lower Upper
 83 100
 55 77.7 39.3 117.8
 98 46.6 23.0 69.0



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: 19.36 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

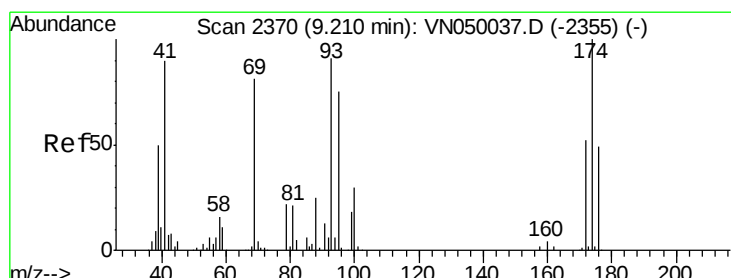
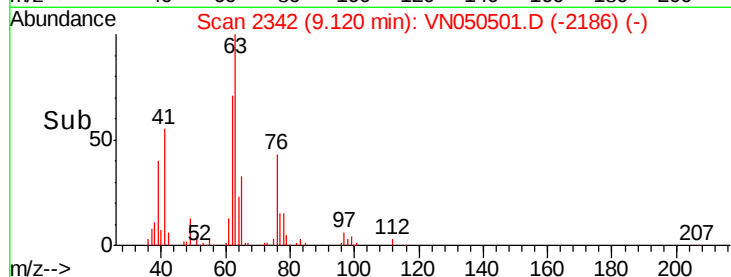
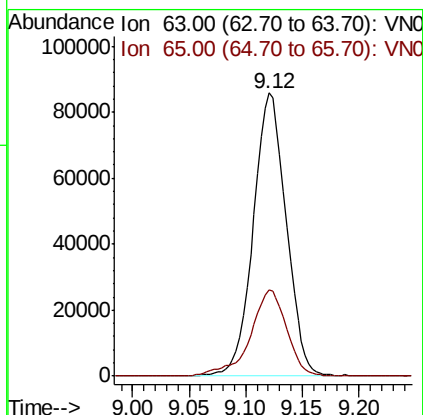
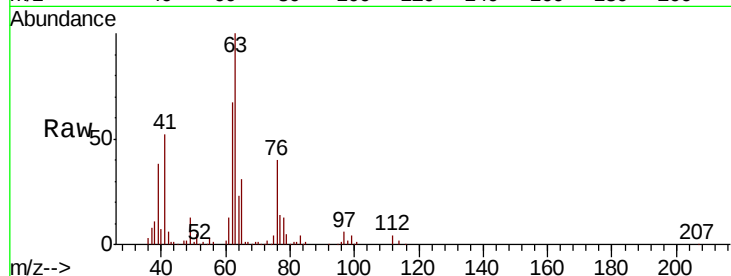
ClientSampleId :

Tot Ion: 63 Resp: 173986

Ion Ratio Lower Upper

63 100

65 30.5 24.2 36.2



#40

Dibromomethane

Concen: 18.64 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

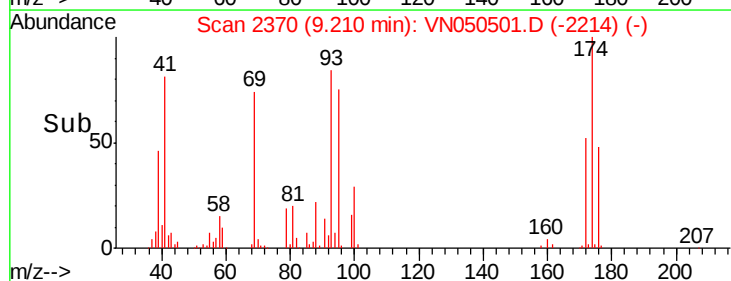
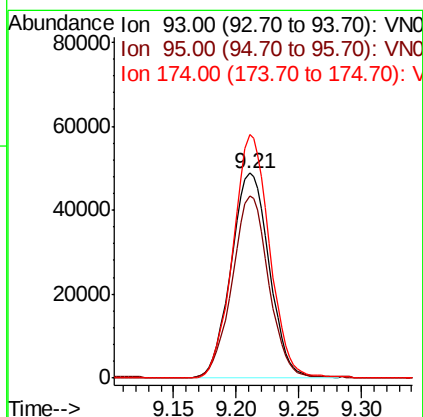
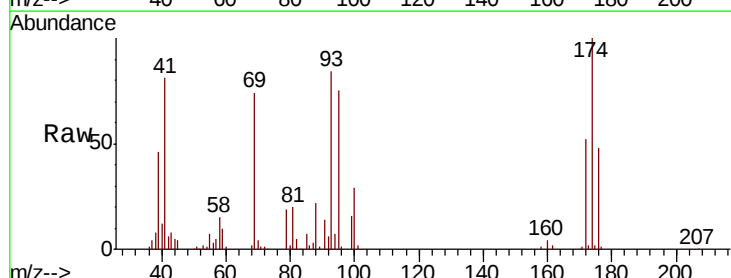
Tgt Ion: 93 Resp: 103510

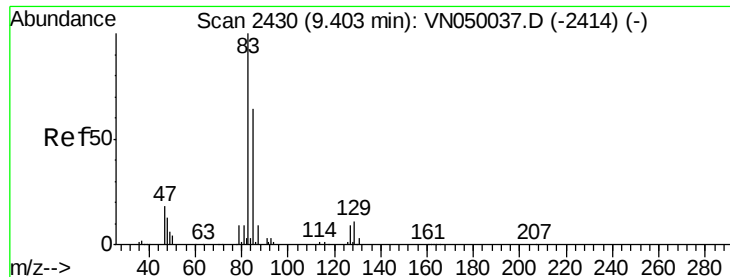
Ion Ratio Lower Upper

93 100

95 85.0 0.0 165.6

174 113.7 0.0 223.2





#41

Bromodichloromethane

Concen: 19.06 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :
MSVOA_N
ClientSampleId :

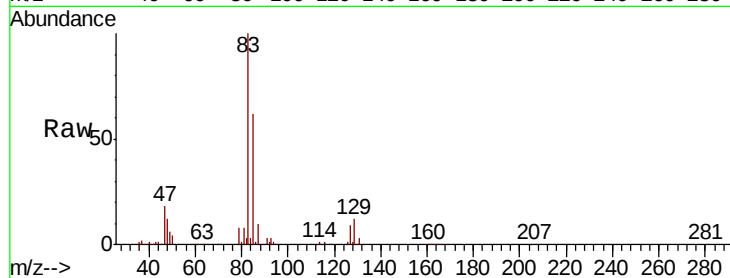
Tot Ion: 83 Resp: 223298

Ion Ratio Lower Upper

83 100

85 62.5 52.6 78.8

127 9.1 7.0 10.4



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

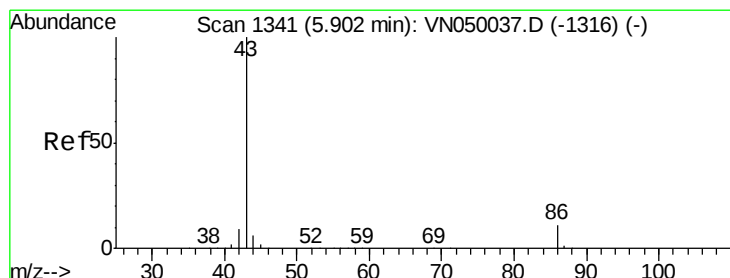
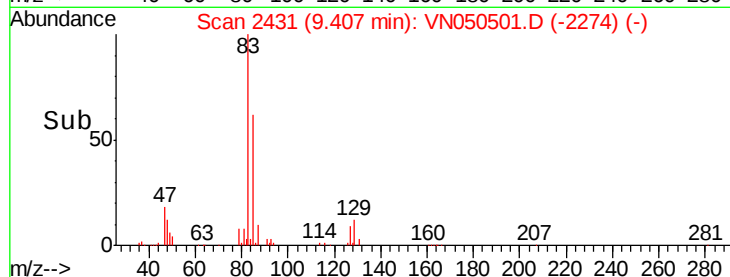
9.41

100000

50000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#42

Vinyl Acetate

Concen: 92.60 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050501.D

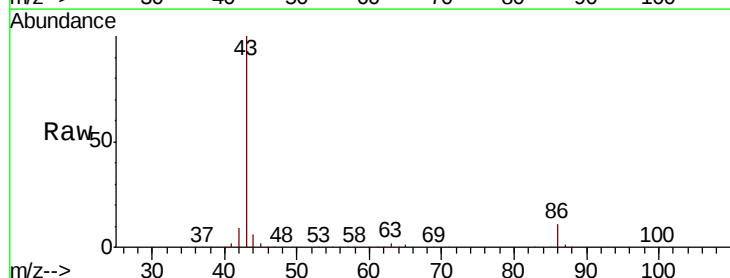
Acq: 9 Aug 2018 22:27

Tgt Ion: 43 Resp: 1535924

Ion Ratio Lower Upper

43 100

86 9.4 7.3 10.9



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

500000

400000

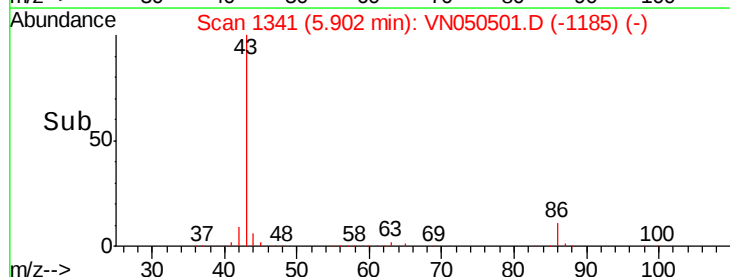
300000

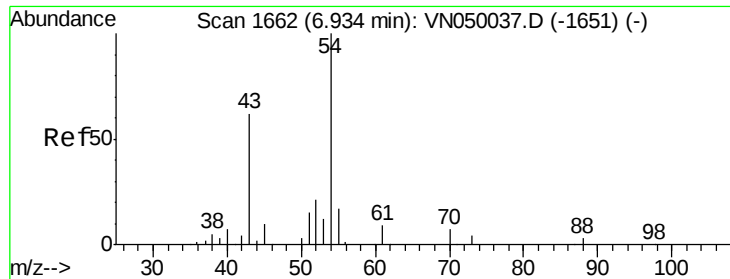
200000

100000

0

Time--> 5.80 6.00





#43

Ethyl Acetate

Concen: 18.55 ug/l

RT: 6.94 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

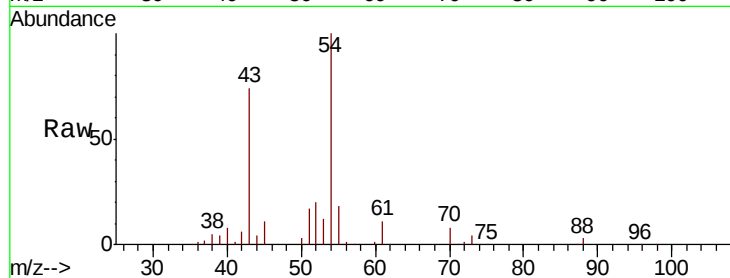
ClientSampleId :

Tot Ion: 43 Resp: 136501

Ion Ratio Lower Upper

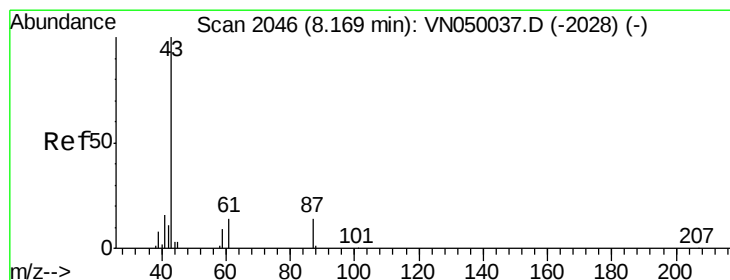
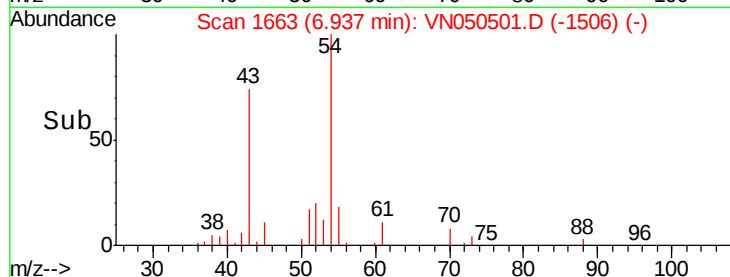
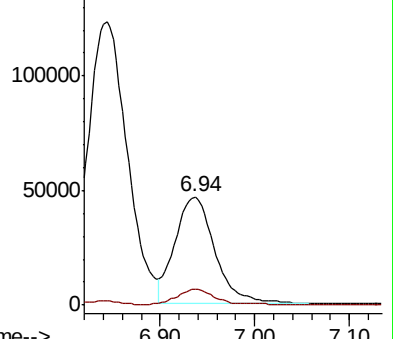
43 100

45 12.8 13.0 19.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 17.45 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050501.D

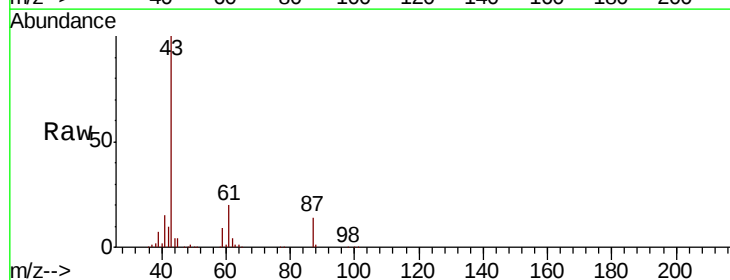
Acq: 9 Aug 2018 22:27

Tgt Ion: 43 Resp: 237856

Ion Ratio Lower Upper

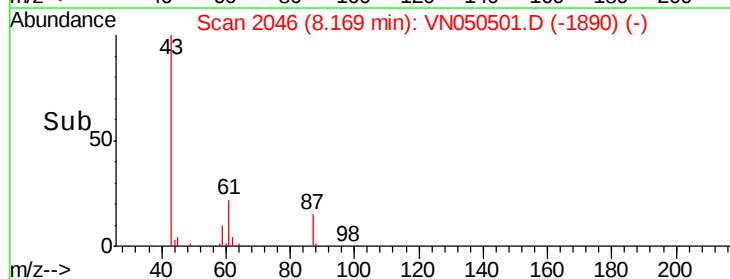
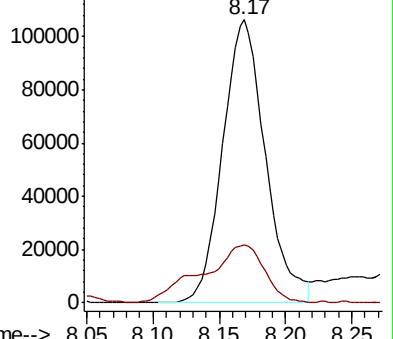
43 100

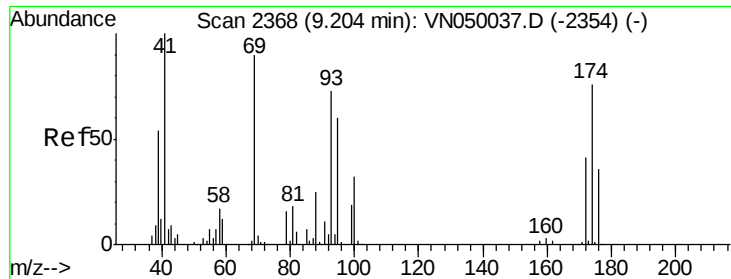
61 29.2 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

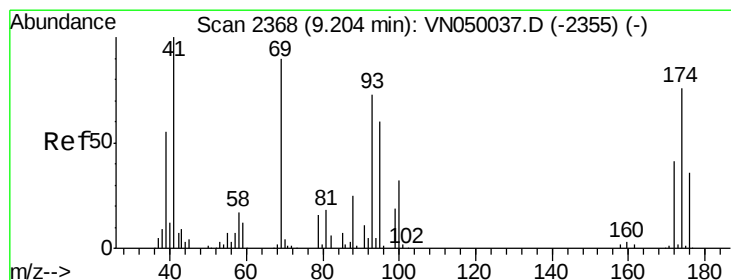
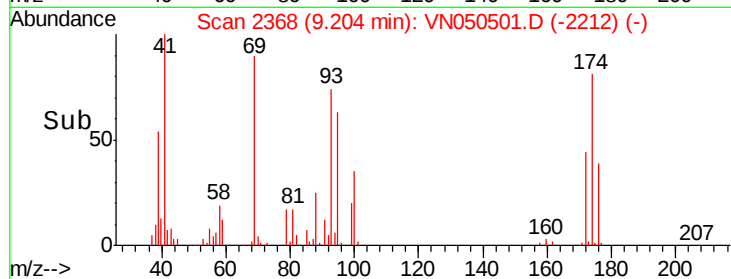
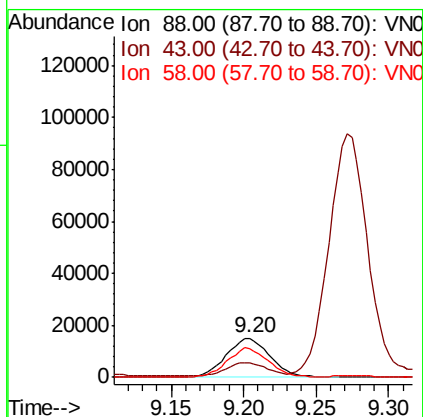
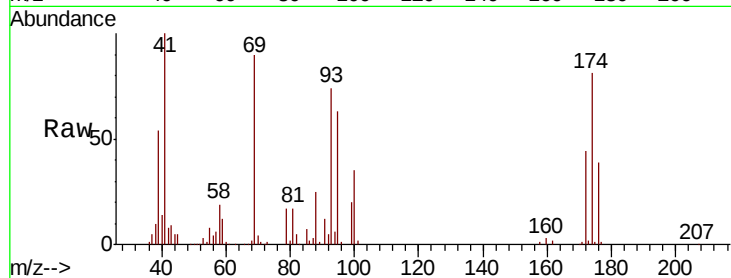




#45
 1,4-Dioxane
 Concen: 350.39 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

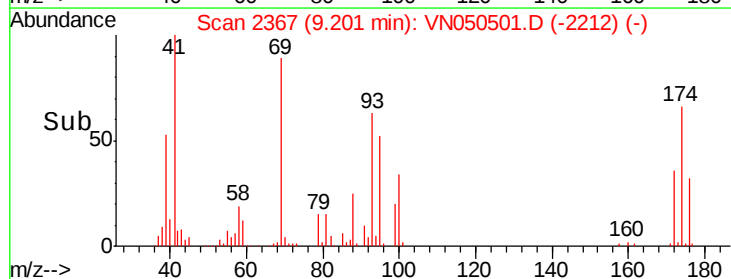
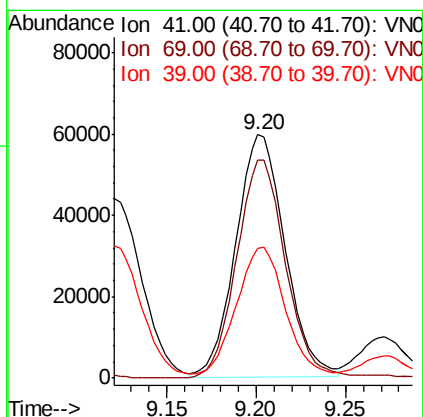
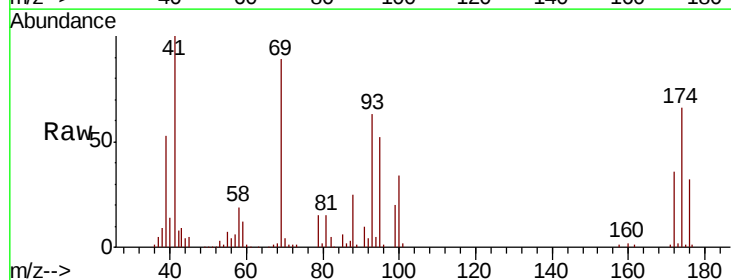
Instrument :
 MSVOA_N
 ClientSampleId :

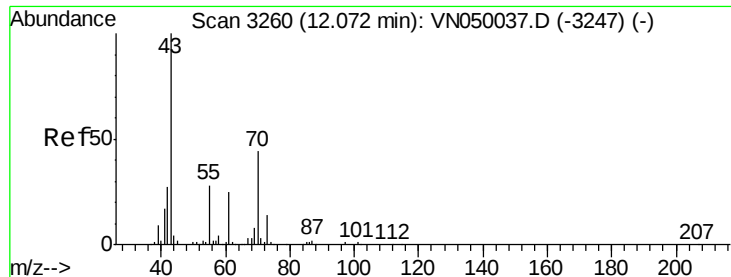
Tot Ion: 88 Resp: 31436
 Ion Ratio Lower Upper
 88 100
 43 32.5 26.9 40.3
 58 71.6 53.6 80.4



#46
 Methyl methacrylate
 Concen: 17.38 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion: 41 Resp: 114900
 Ion Ratio Lower Upper
 41 100
 69 90.8 44.0 132.1
 39 52.6 27.0 80.8

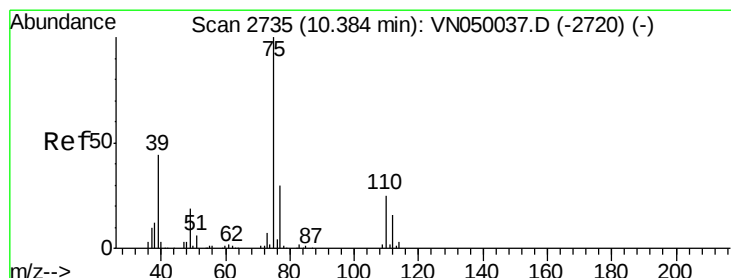
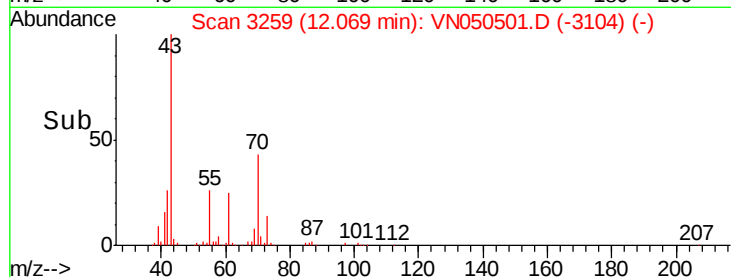
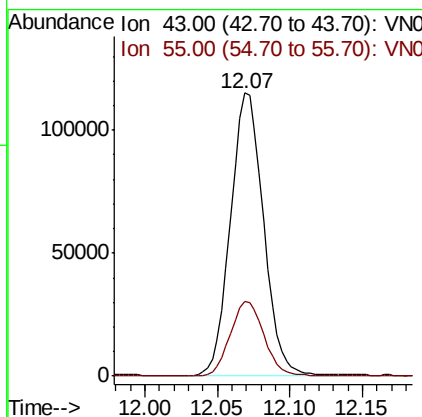
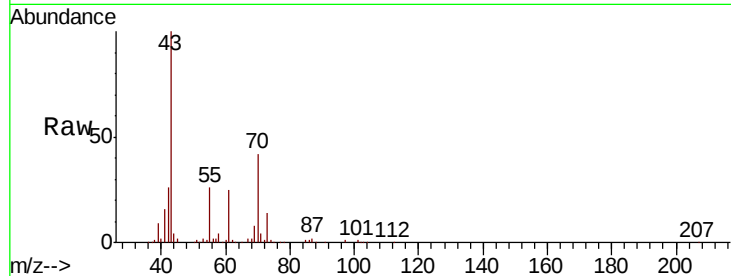




#47
n-amyl Acetate
Concen: 17.13 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

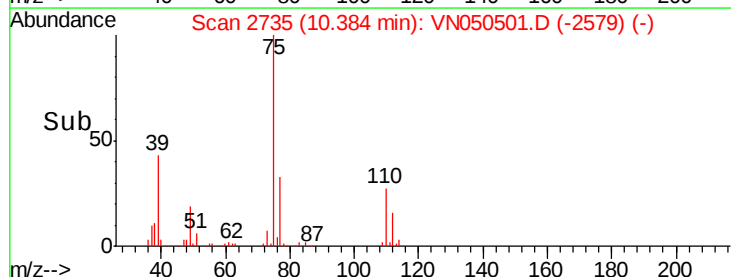
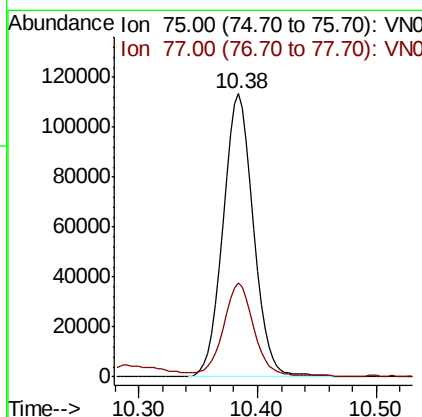
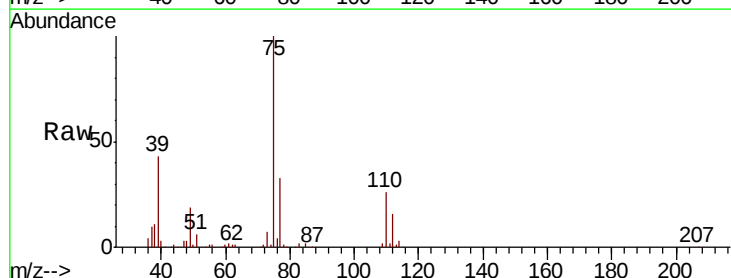
Instrument :
MSVOA_N
ClientSampled :

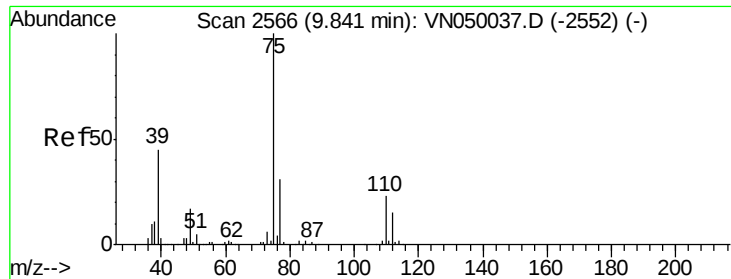
Tot Ion: 43 Resp: 181741
Ion Ratio Lower Upper
43 100
55 27.1 21.0 31.4



#48
t-1,3-Dichloropropene
Concen: 17.99 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 75 Resp: 200855
Ion Ratio Lower Upper
75 100
77 32.9 24.6 37.0

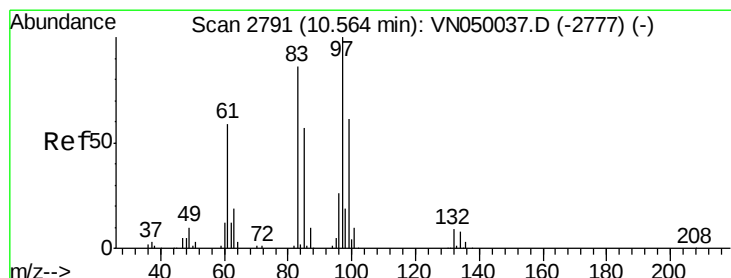
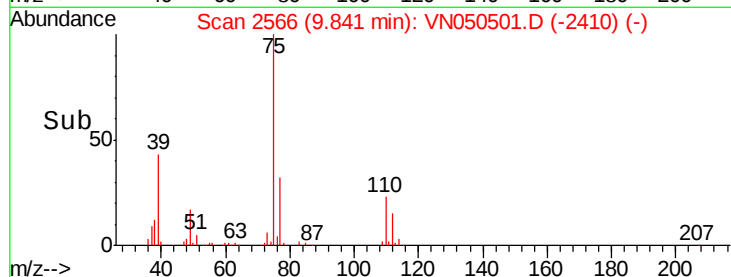
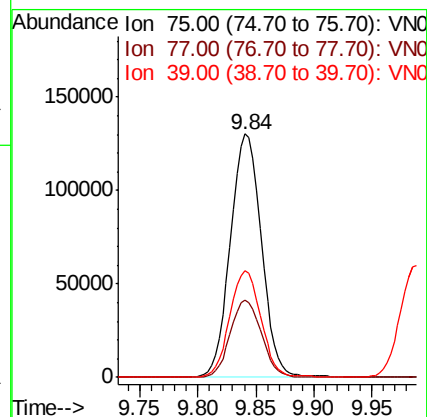
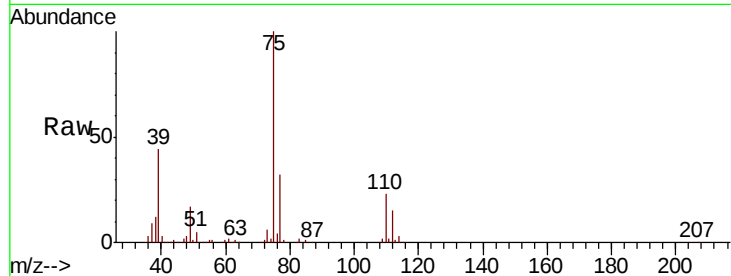




#49
 cis-1,3-Dichloropropene
 Concen: 18.44 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

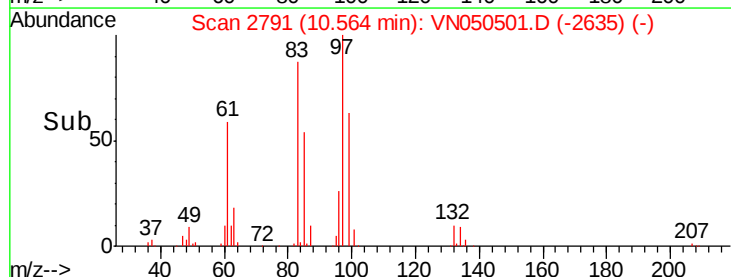
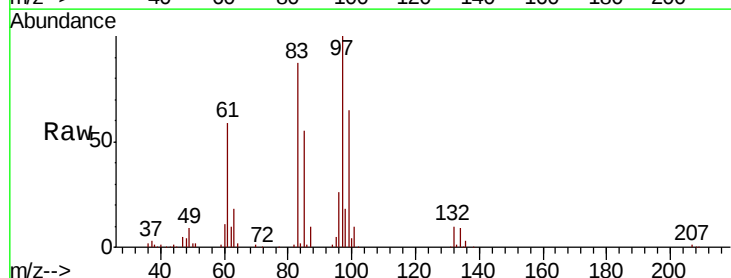
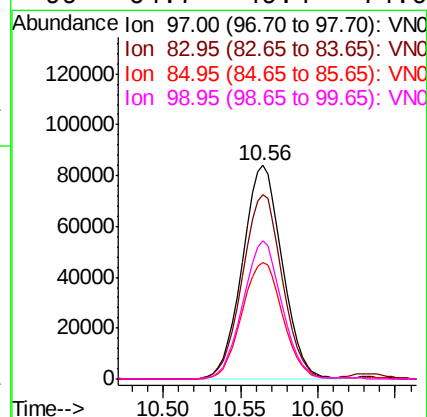
Instrument :
 MSVOA_N
 ClientSampleId :

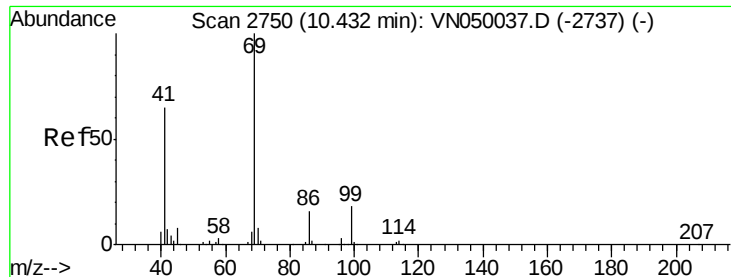
Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5
39	43.6	36.3	54.5



#50
 1,1,2-Trichloroethane
 Concen: 18.91 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.6	68.1	102.1
85	54.5	45.4	68.2
99	64.7	49.4	74.0

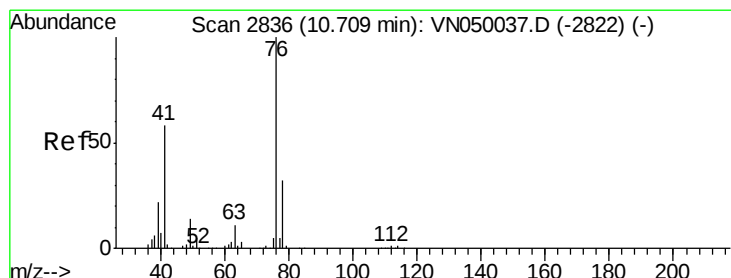
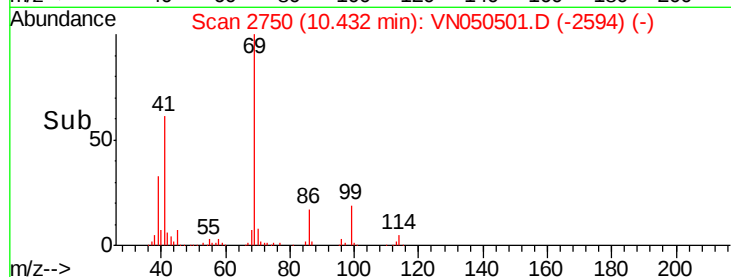
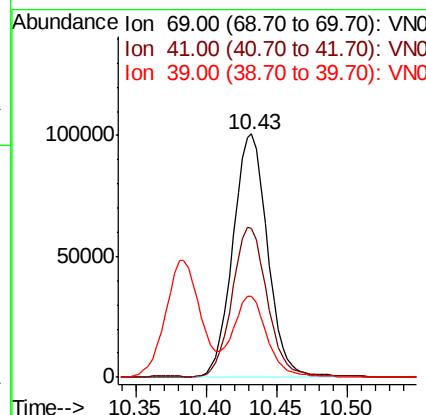
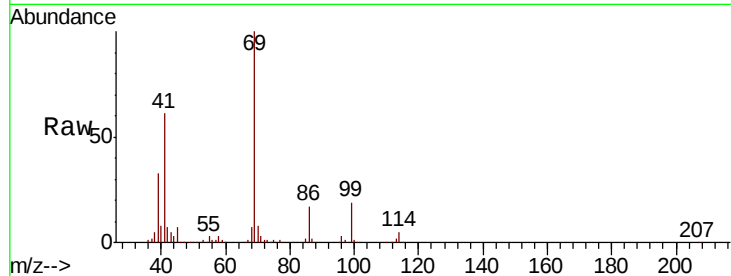




#51
Ethyl methacrylate
Concen: 17.96 ug/l
RT: 10.43 min Scan# 2750
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

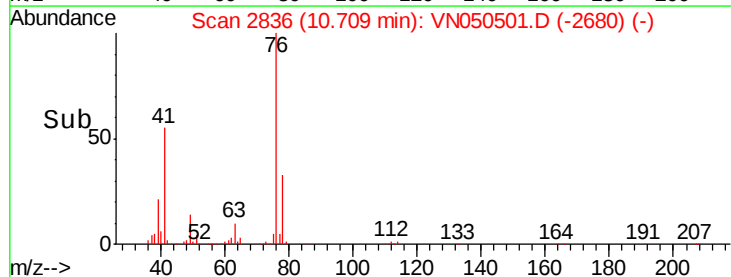
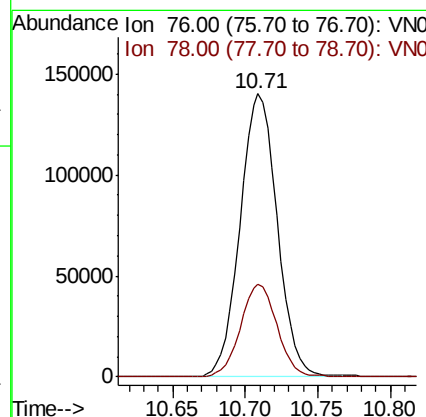
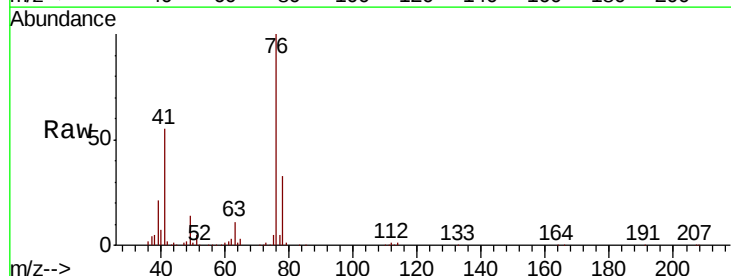
Instrument :
MSVOA_N
ClientSampled :

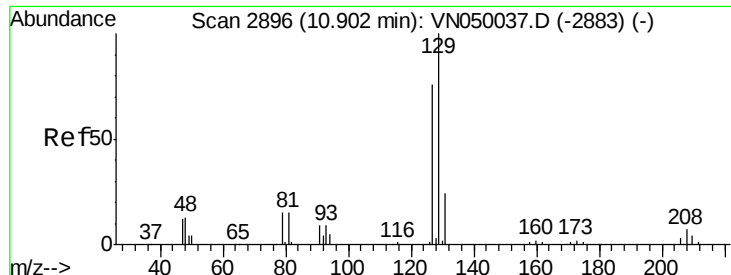
Tot Ion: 69 Resp: 173813
Ion Ratio Lower Upper
69 100
41 60.9 31.9 95.9
39 32.8 16.7 50.1



#52
1,3-Dichloropropane
Concen: 19.06 ug/l
RT: 10.71 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 76 Resp: 249516
Ion Ratio Lower Upper
76 100
78 32.3 0.0 65.6





#53

Dibromochloromethane

Concen: 18.29 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

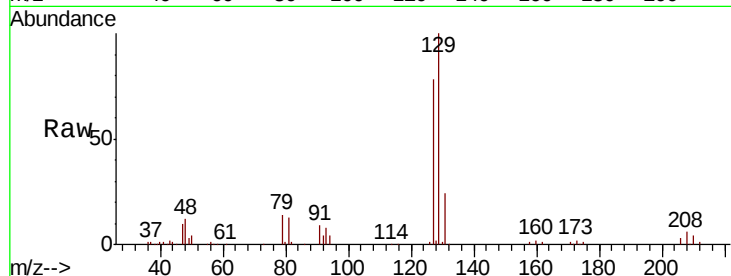
ClientSampled :

Tot Ion:129 Resp: 165451

Ion Ratio Lower Upper

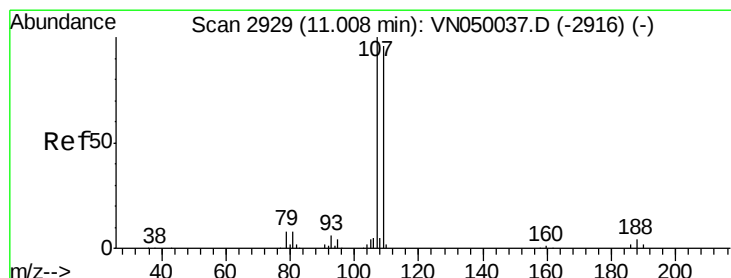
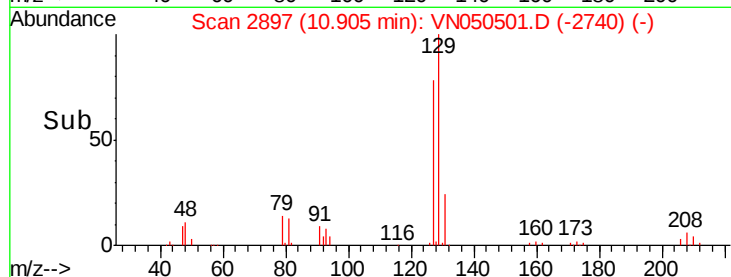
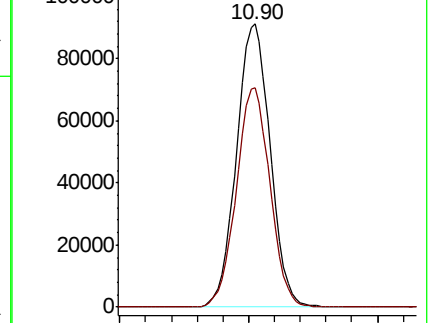
129 100

127 77.4 38.1 114.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 18.38 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050501.D

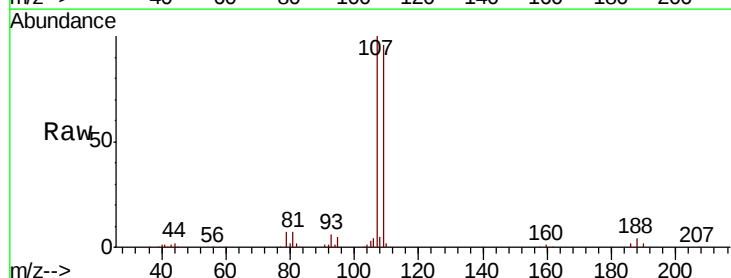
Acq: 9 Aug 2018 22:27

Tgt Ion:107 Resp: 143506

Ion Ratio Lower Upper

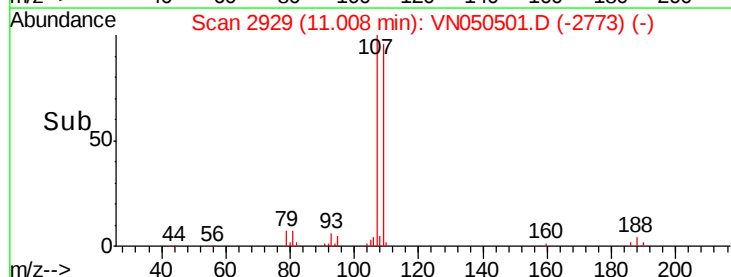
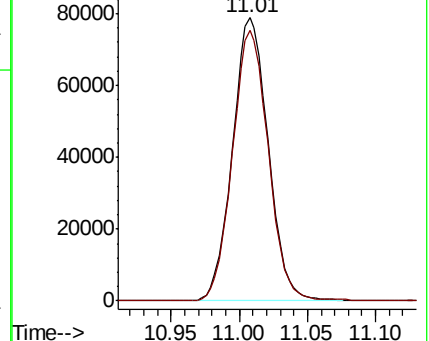
107 100

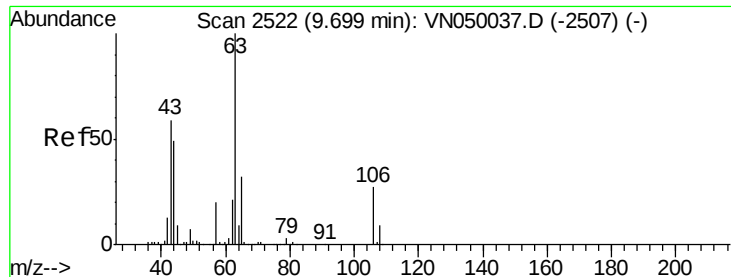
109 95.5 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 97.42 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

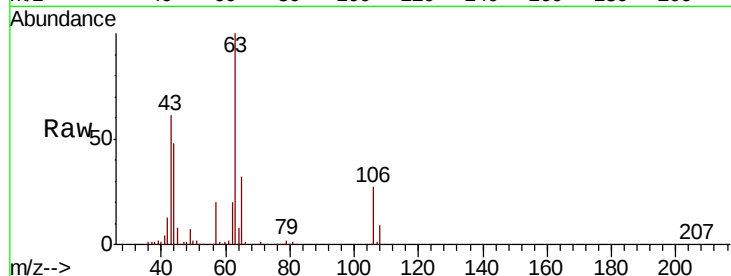
Tot Ion: 63 Resp: 426624

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.5	38.3
106	27.5	21.8	32.6

63 100

65 31.8 25.5 38.3

106 27.5 21.8 32.6

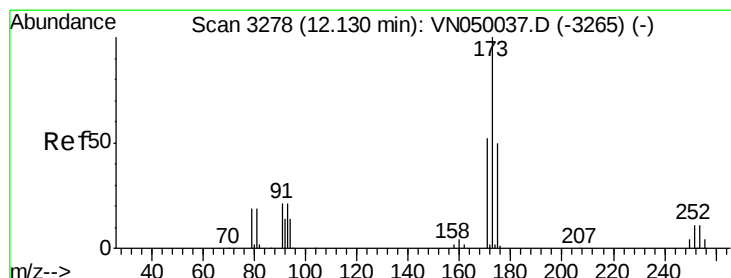
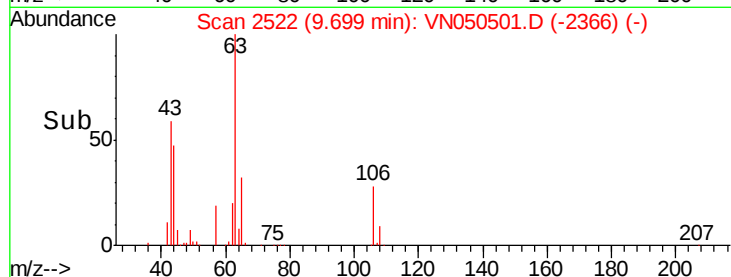
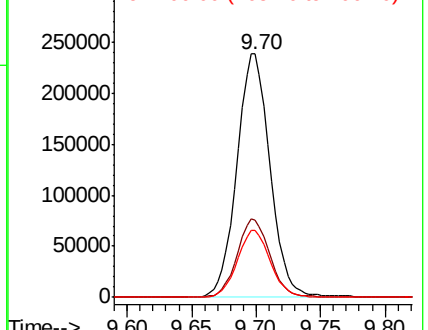


Abundance

Ion 63.00 (62.70 to 63.70): VN050037.D (-2507) (-)

Ion 65.00 (64.70 to 65.70): VN050037.D (-2507) (-)

Ion 106.00 (105.70 to 106.70): VN050037.D (-2507) (-)



#56

Bromoform

Concen: 17.03 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

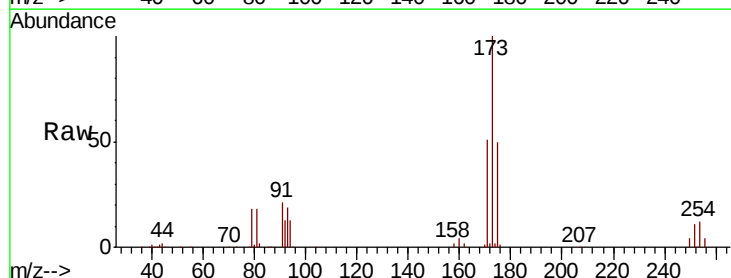
Tgt Ion: 173 Resp: 108779

Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.6	57.8
254	10.5	8.8	13.2

173 100

175 48.7 38.6 57.8

254 10.5 8.8 13.2

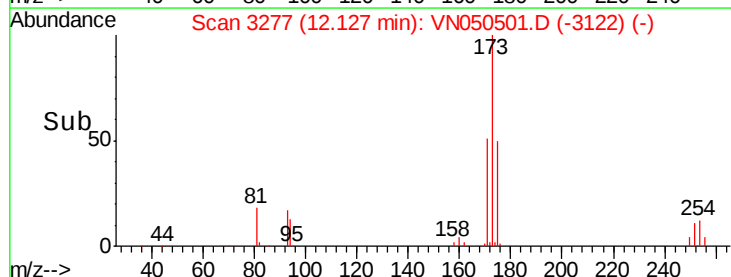
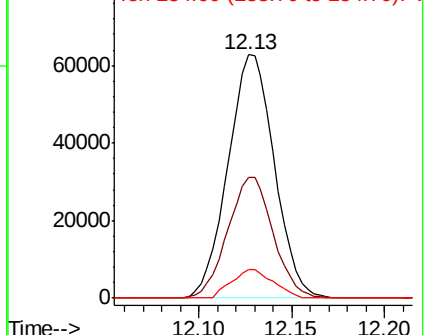


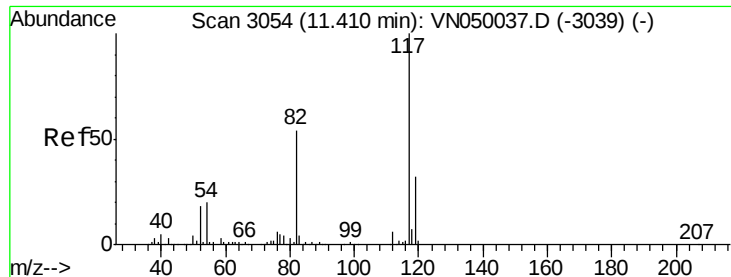
Abundance

Ion 173.00 (172.70 to 173.70): VN050037.D (-3265) (-)

Ion 175.00 (174.70 to 175.70): VN050037.D (-3265) (-)

Ion 254.00 (253.70 to 254.70): VN050037.D (-3265) (-)

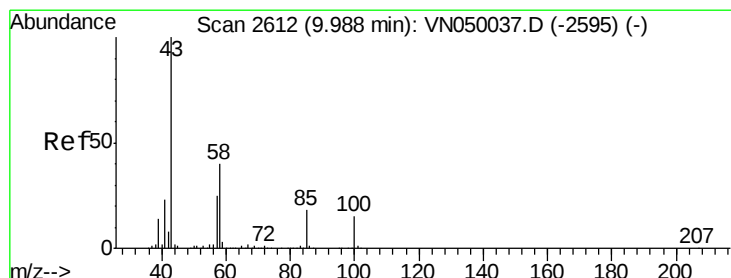
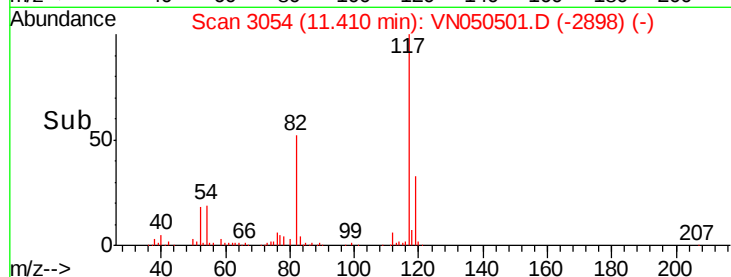
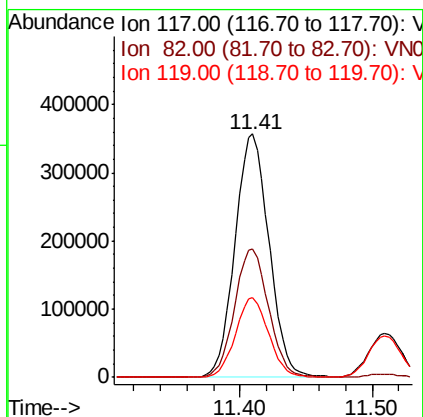
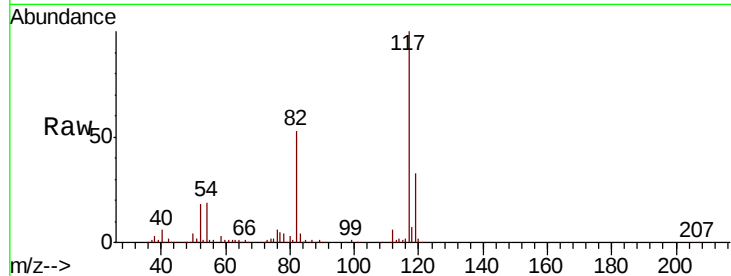




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

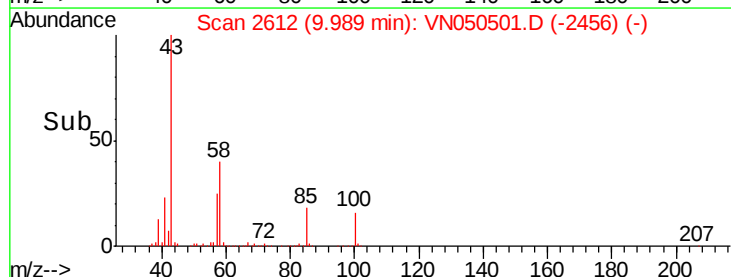
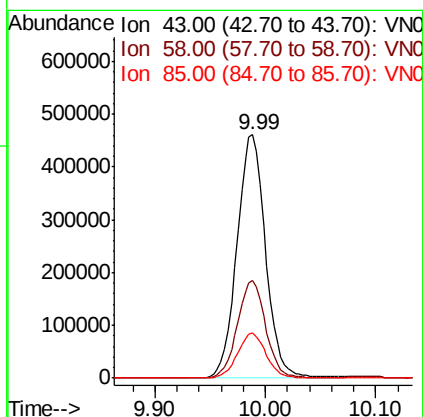
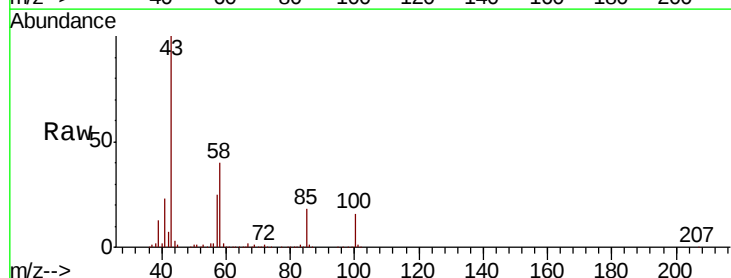
Instrument :
MSVOA_N
ClientSampled :

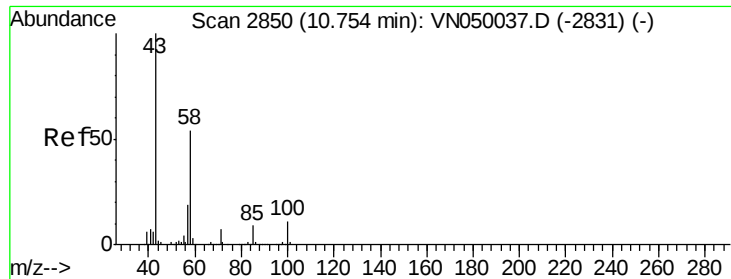
Tot Ion:117 Resp: 636428
Ion Ratio Lower Upper
117 100
82 52.7 42.4 63.6
119 31.9 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 111.17 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 43 Resp: 823253
Ion Ratio Lower Upper
43 100
58 39.9 31.2 46.8
85 18.6 14.4 21.6

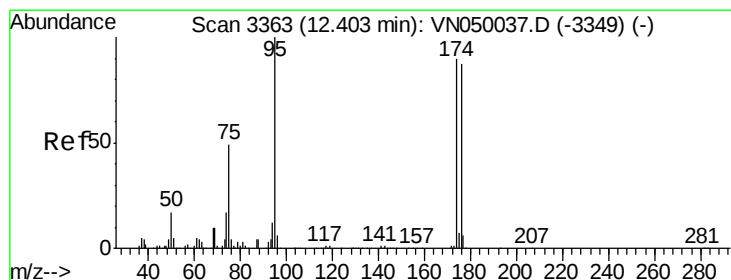
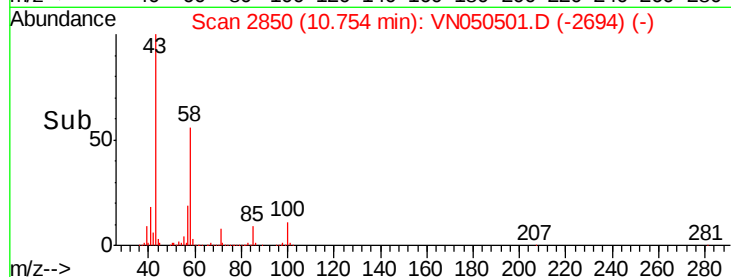
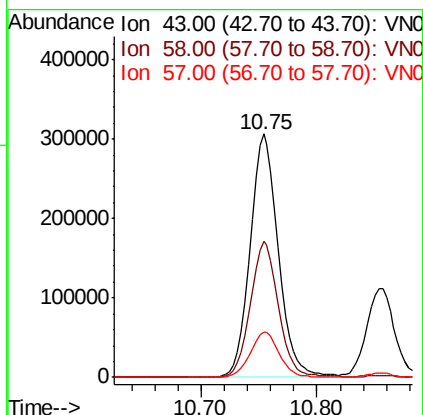
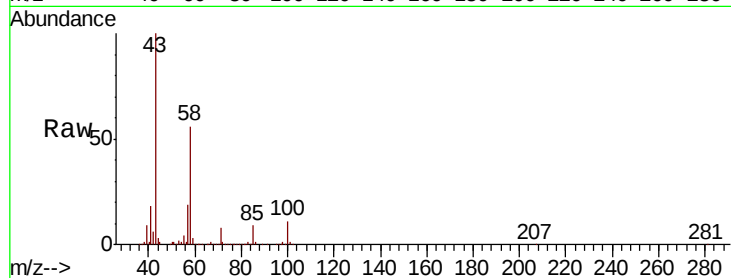




#59
2-Hexanone
Concen: 103.01 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

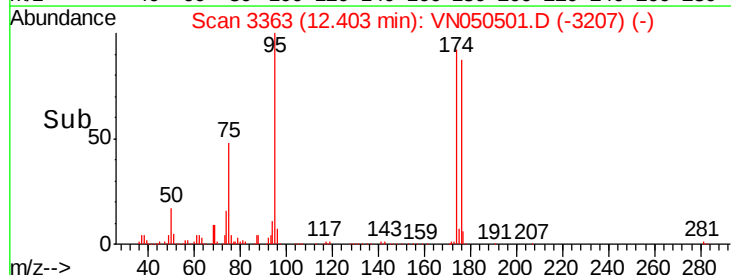
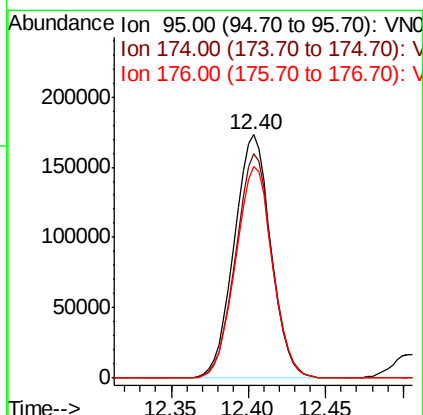
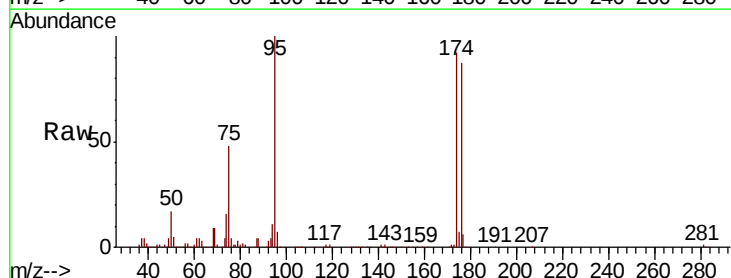
Instrument :
MSVOA_N
ClientSampleId :

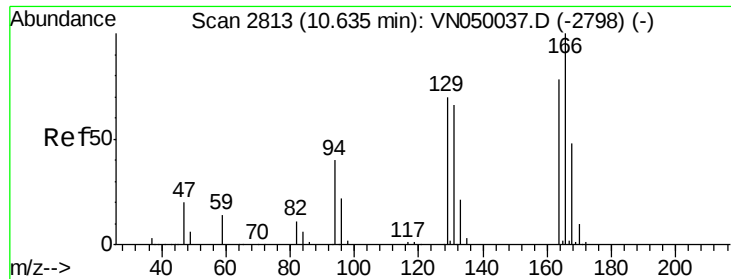
Tot Ion: 43 Resp: 520414
Ion Ratio Lower Upper
43 100
58 55.8 43.8 65.8
57 19.2 15.1 22.7



#60
4-Bromofluorobenzene
Concen: 29.08 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 95 Resp: 284311
Ion Ratio Lower Upper
95 100
174 91.7 72.3 108.5
176 87.7 70.0 105.0





#61

Tetrachloroethene

Concen: 19.38 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 167028

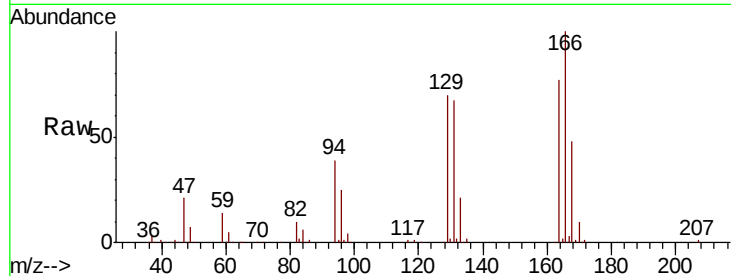
Ion Ratio Lower Upper

164 100

166 129.5 100.0 150.0

129 90.6 69.3 103.9

131 87.0 68.8 103.2

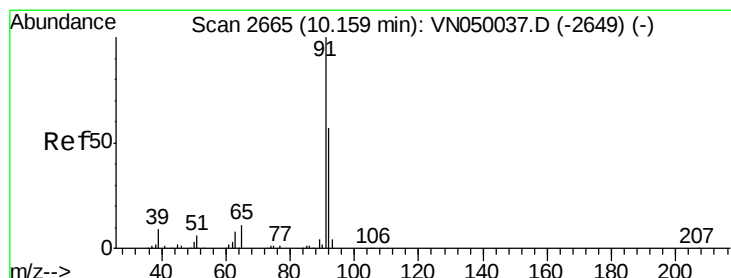
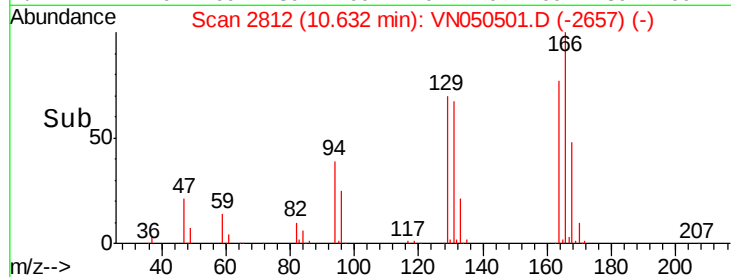
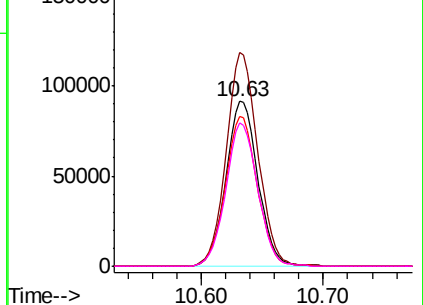


Abundance Ion 163.85 (163.55 to 164.55): V

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: 19.39 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050501.D

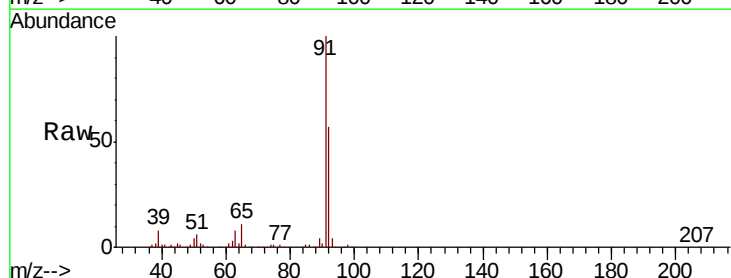
Acq: 9 Aug 2018 22:27

Tgt Ion: 91 Resp: 704142

Ion Ratio Lower Upper

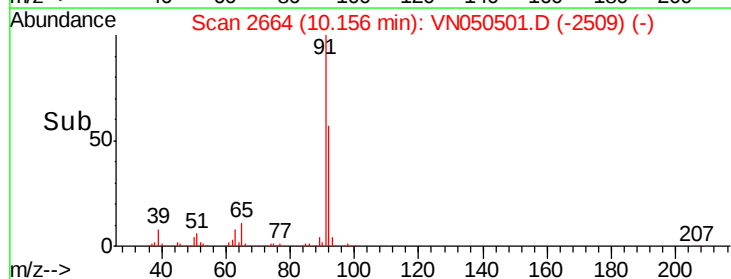
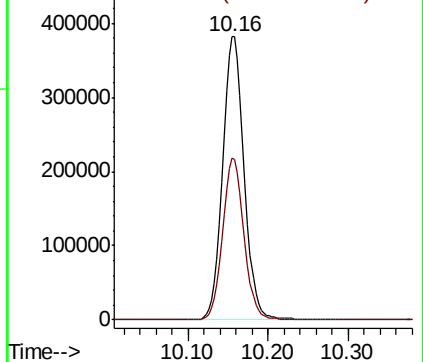
91 100

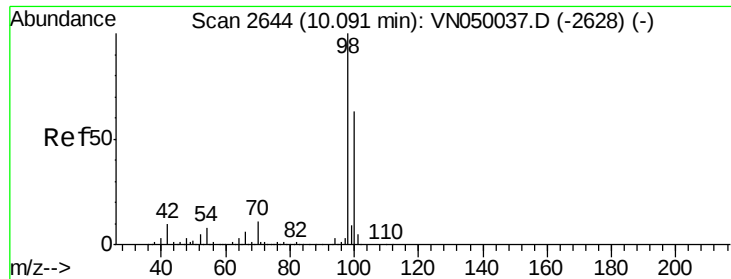
92 56.9 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 29.78 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

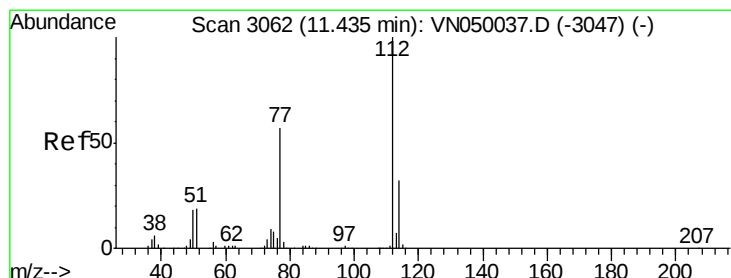
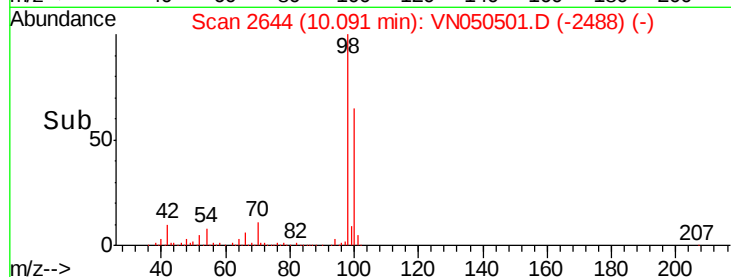
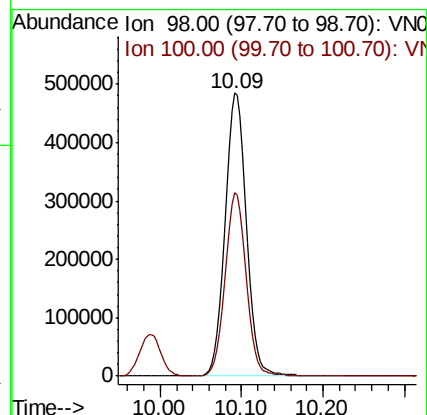
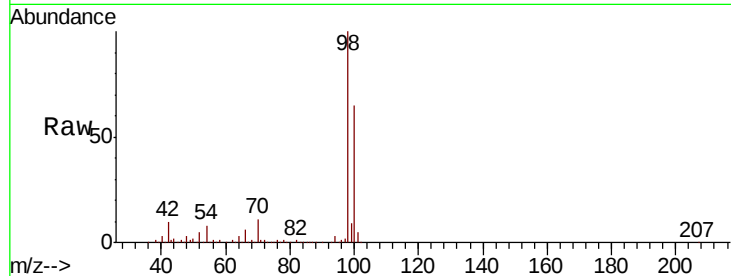
ClientSampled :

Tot Ion: 98 Resp: 905237

Ion Ratio Lower Upper

98 100

100 63.5 51.2 76.8



#64

Chlorobenzene

Concen: 19.42 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050501.D

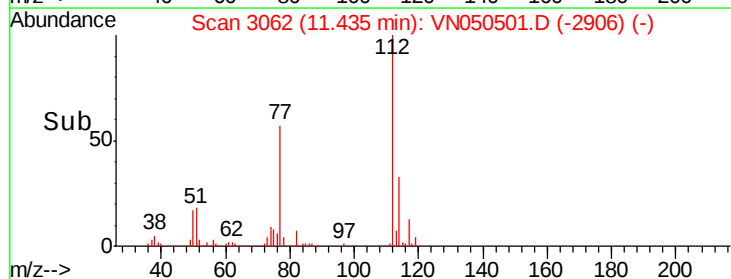
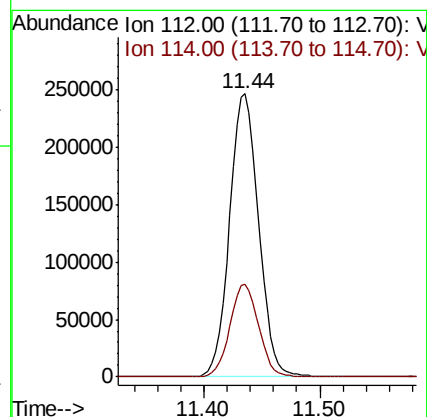
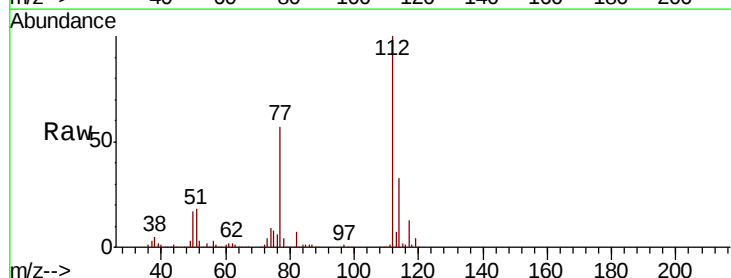
Acq: 9 Aug 2018 22:27

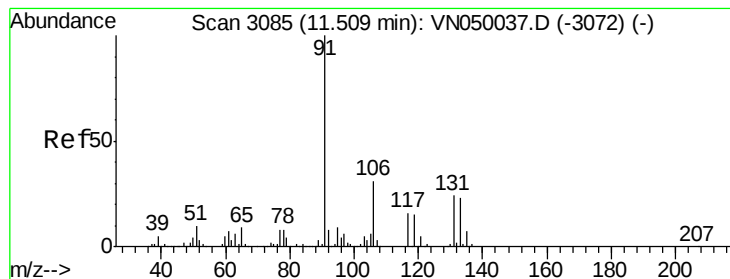
Tgt Ion: 112 Resp: 427681

Ion Ratio Lower Upper

112 100

114 32.9 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.50 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampled :

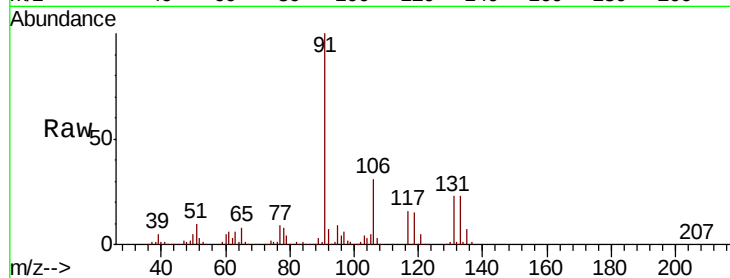
Tot Ion:131 Resp: 167430

Ion Ratio Lower Upper

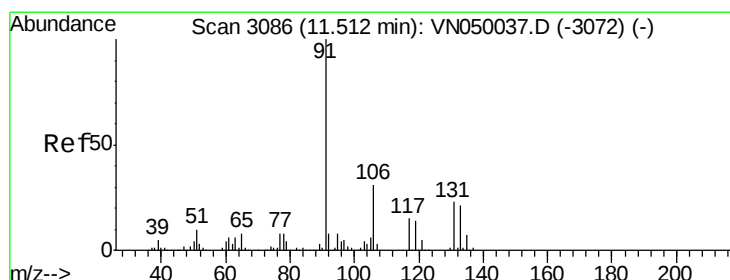
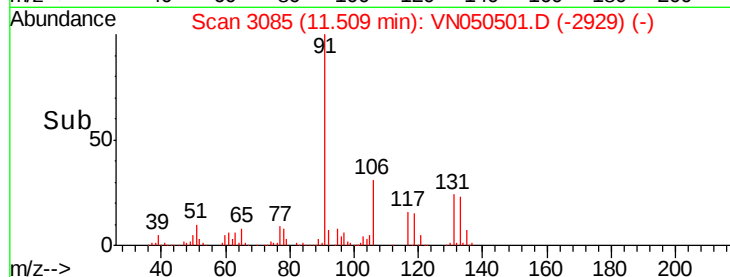
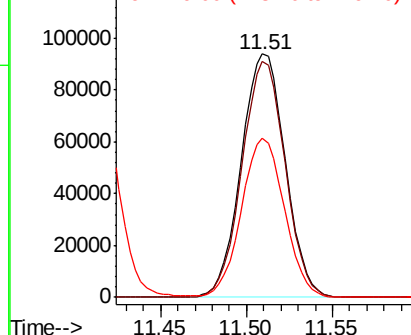
131 100

133 95.0 0.0 190.0

119 63.8 0.0 131.6



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: 18.92 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050501.D

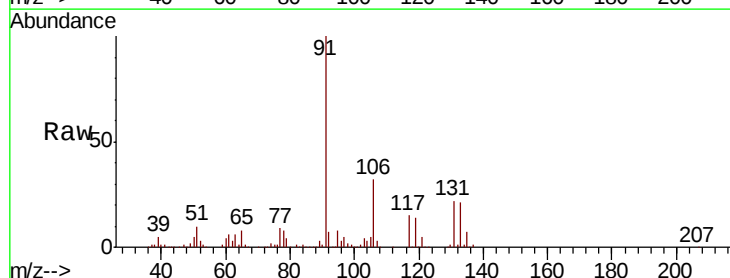
Acq: 9 Aug 2018 22:27

Tgt Ion: 91 Resp: 702233

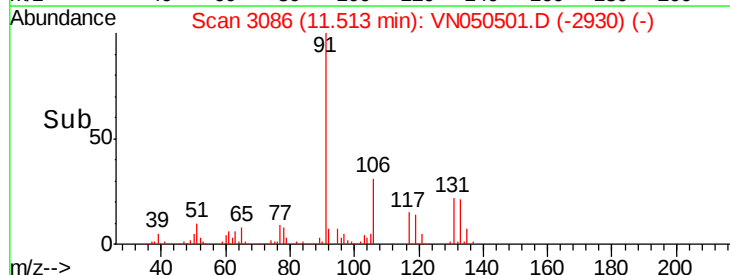
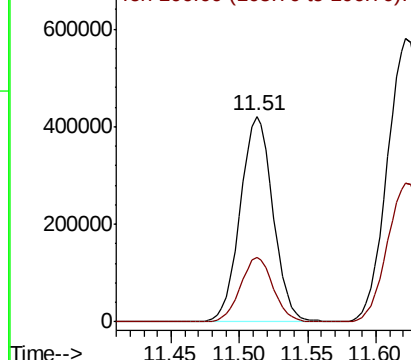
Ion Ratio Lower Upper

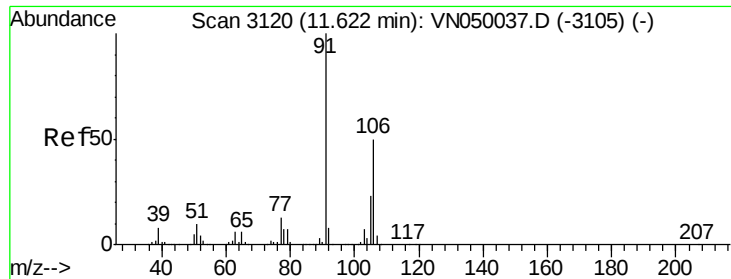
91 100

106 31.5 25.1 37.7



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

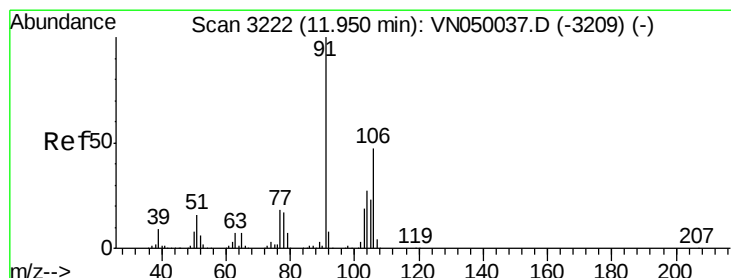
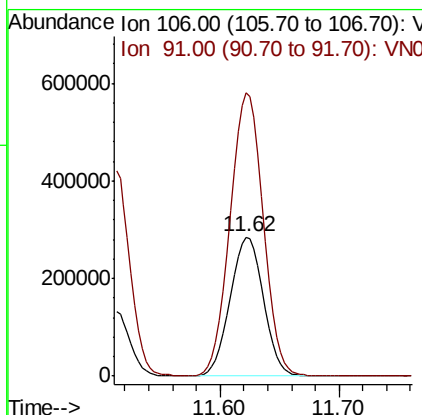
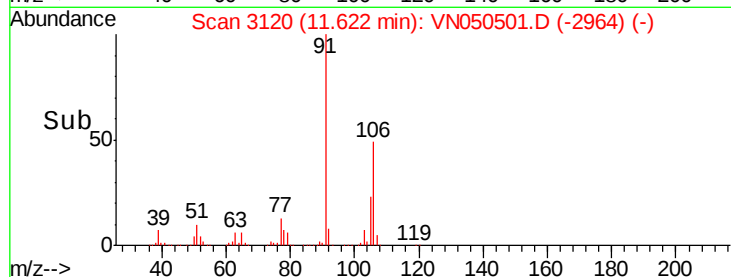
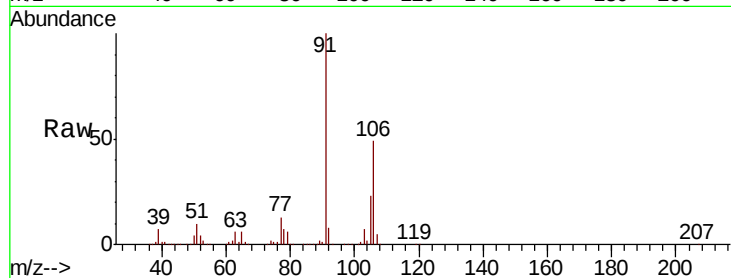




#67
m/p-Xylenes
Concen: 38.80 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

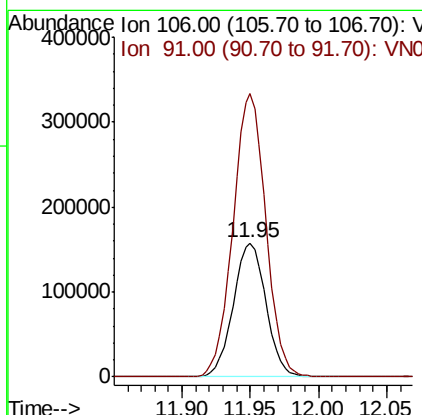
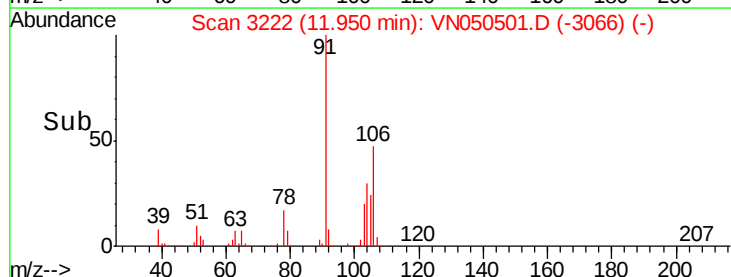
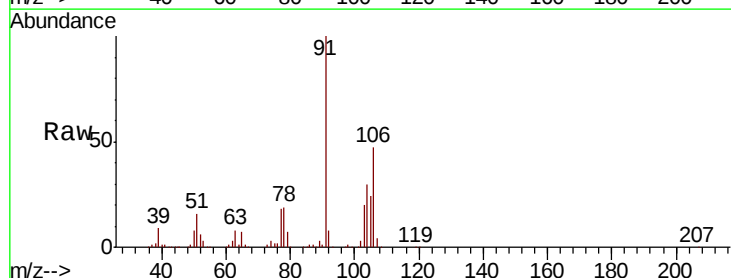
Instrument :
MSVOA_N
ClientSampled :

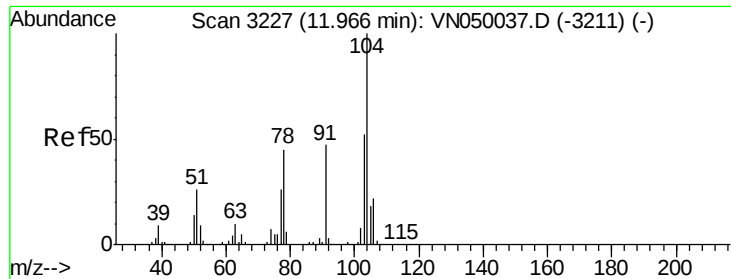
Tot Ion:106 Resp: 554128
Ion Ratio Lower Upper
106 100
91 202.1 162.5 243.7



#68
o-Xylene
Concen: 19.33 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion:106 Resp: 262663
Ion Ratio Lower Upper
106 100
91 211.1 106.8 320.4





#69

Stvrene

Concen: 19.48 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

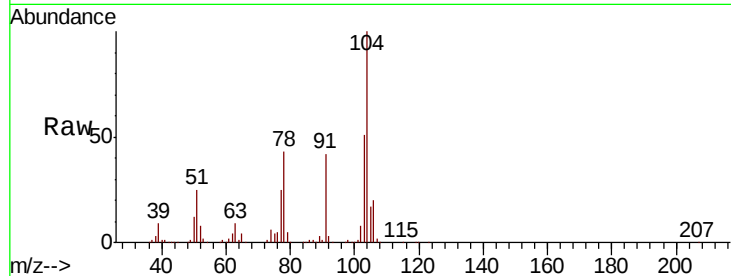
Tot Ion:104 Resp: 424300

Ion Ratio Lower Upper

104 100

78 49.0 39.3 58.9

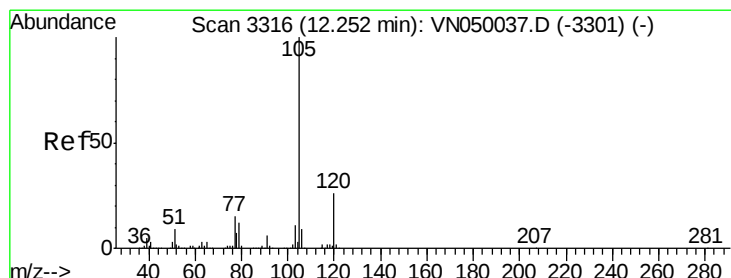
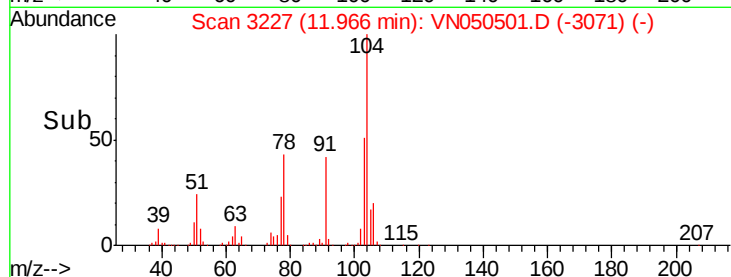
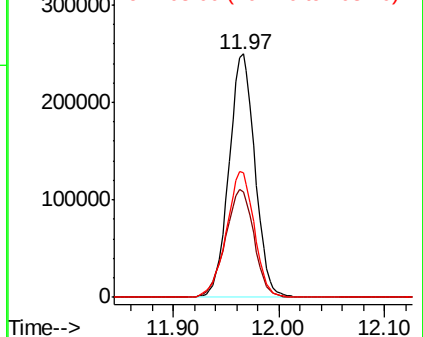
103 55.6 44.5 66.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#70

Isopropylbenzene

Concen: 19.07 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050501.D

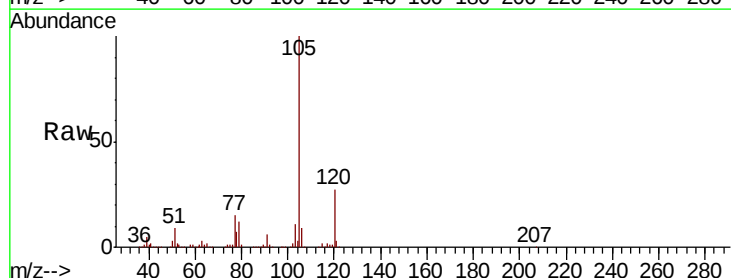
Acq: 9 Aug 2018 22:27

Tgt Ion:105 Resp: 689983

Ion Ratio Lower Upper

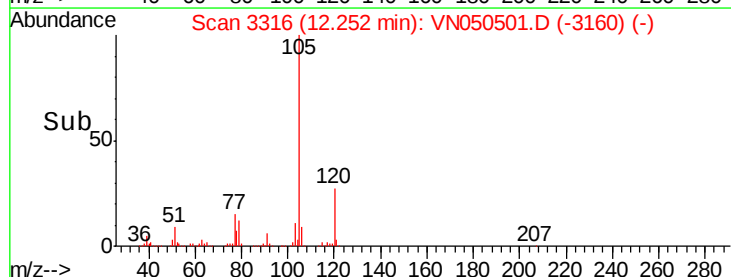
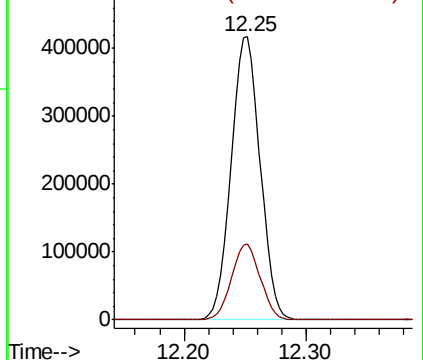
105 100

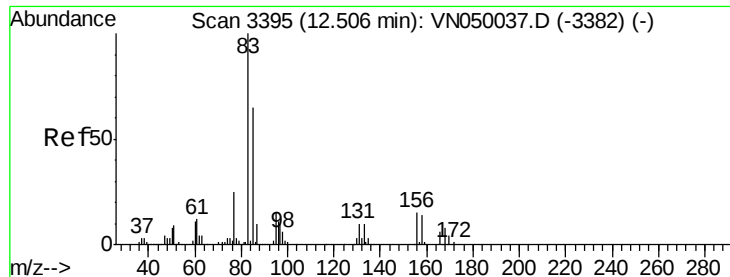
120 26.5 18.9 35.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

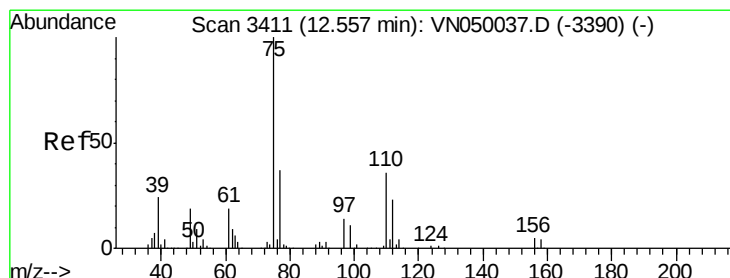
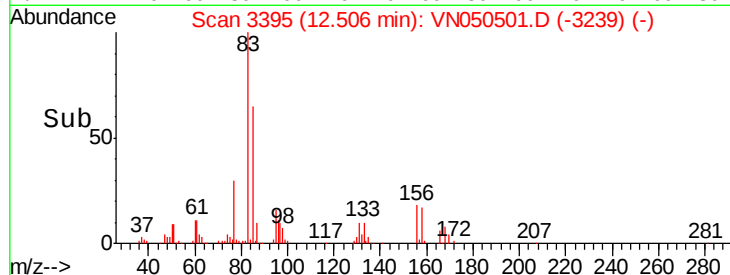
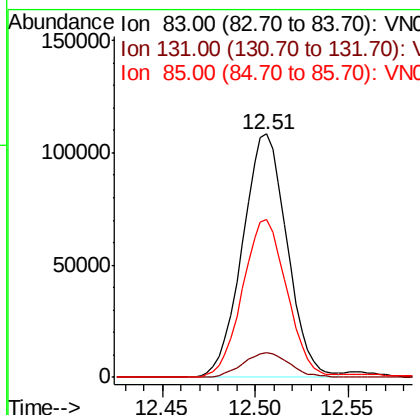
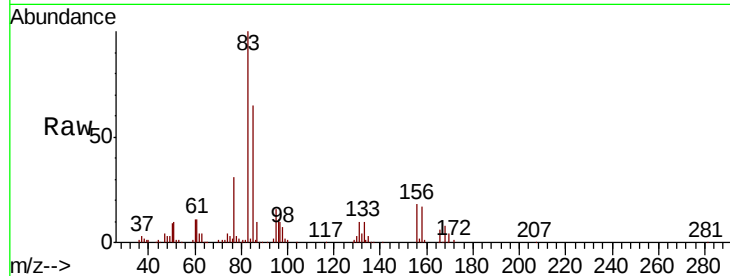




#71
 1,1,2,2-Tetrachloroethane
 Concen: 18.26 ug/l
 RT: 12.51 min Scan# 3395
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

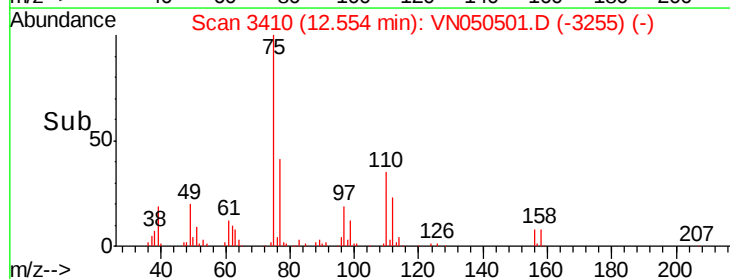
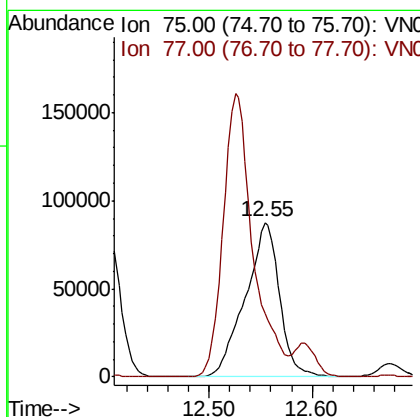
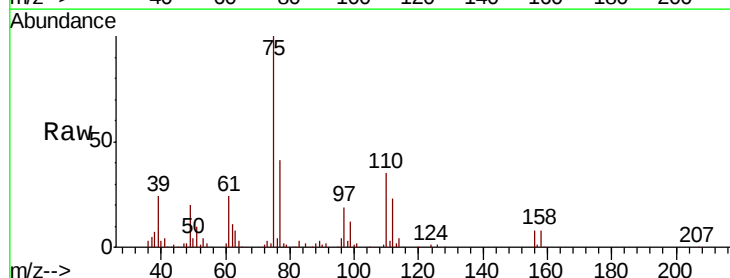
Instrument :
 MSVOA_N
 ClientSampled :

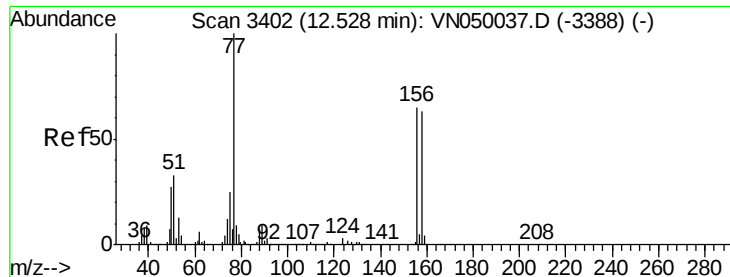
Tot Ion	83	Resp	181366
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	64.5	31.7	95.1



#72
 1,2,3-Trichloropropane
 Concen: 23.77 ug/l
 RT: 12.55 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion	75	Resp	201663
Ion Ratio	Lower	Upper	
75	100		
77	160.8	0.0	454.4





#73

Bromobenzene

Concen: 18.85 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

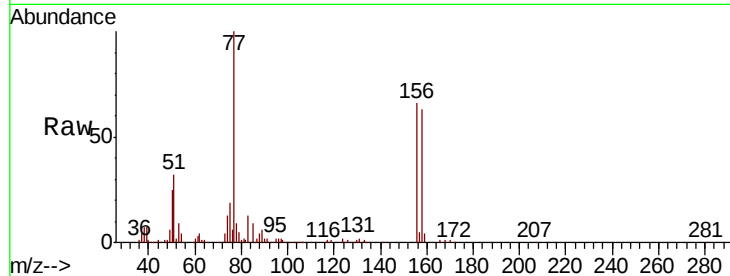
Tot Ion:156 Resp: 181741

Ion Ratio Lower Upper

156 100

77 178.4 0.0 359.8

158 98.7 0.0 192.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V

200000

150000

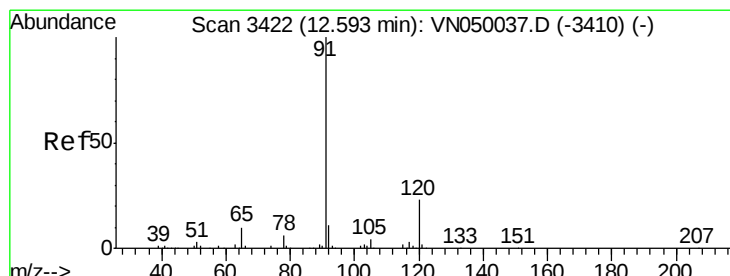
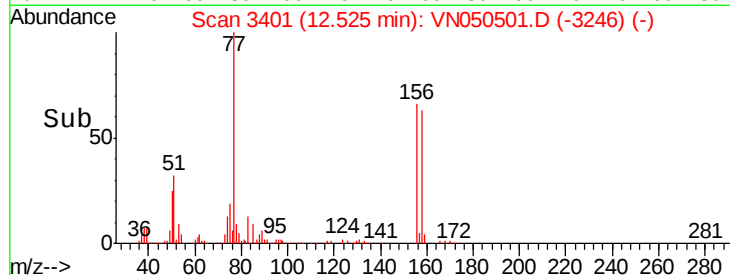
100000

50000

0

12.45 12.50 12.55 12.60

Time-->



#74

n-propylbenzene

Concen: 18.39 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050501.D

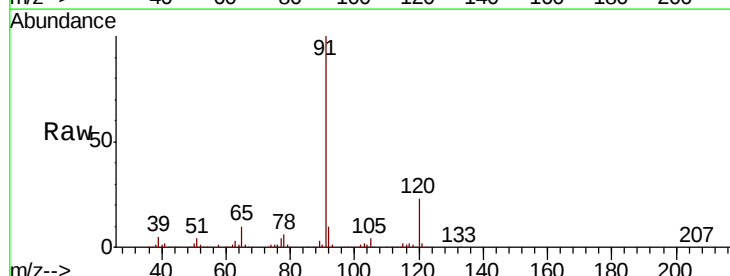
Acq: 9 Aug 2018 22:27

Tgt Ion: 91 Resp: 775136

Ion Ratio Lower Upper

91 100

120 23.0 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

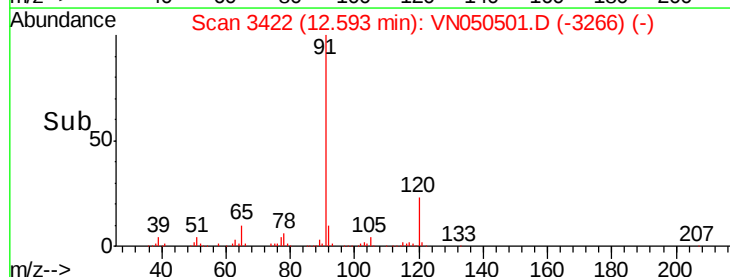
200000

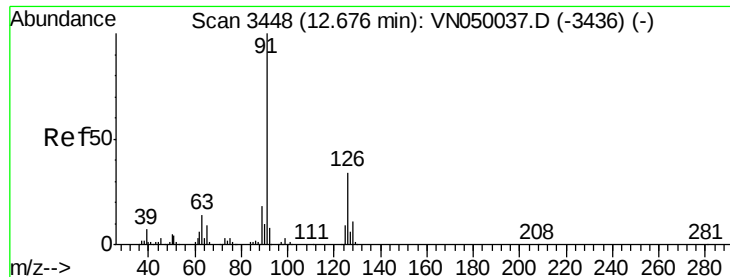
100000

0

12.55 12.60 12.65

Time-->





#75

2-Chlorotoluene

Concen: 19.09 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

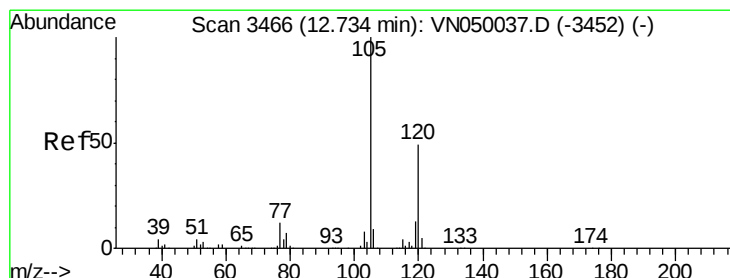
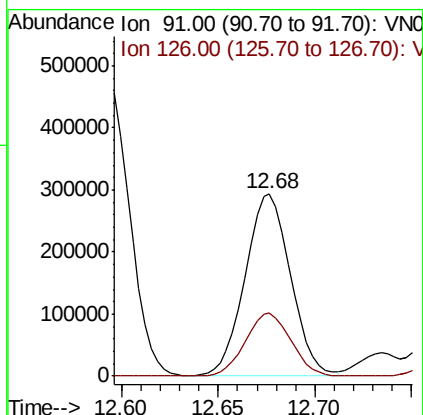
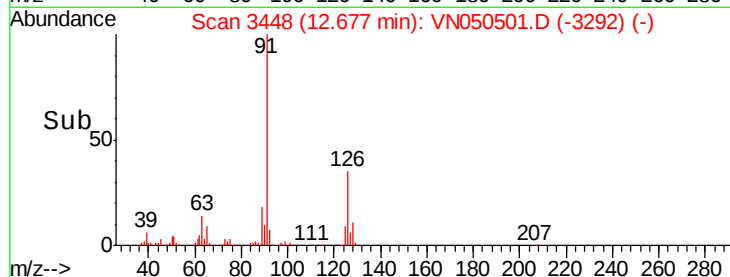
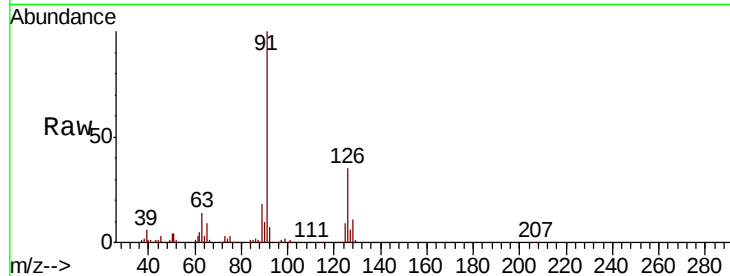
ClientSampled :

Tot Ion: 91 Resp: 483309

Ion Ratio Lower Upper

91 100

126 34.6 0.0 68.6



#76

1,3,5-Trimethylbenzene

Concen: 19.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050501.D

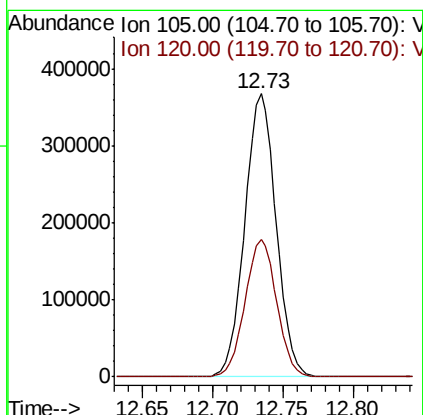
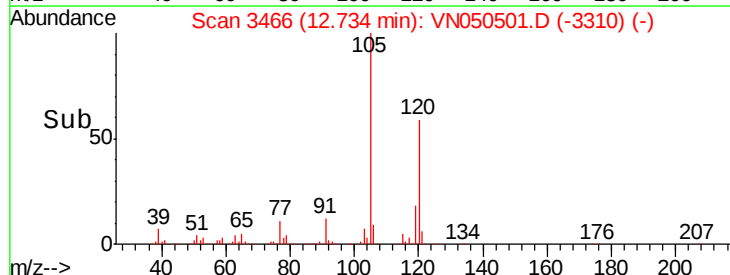
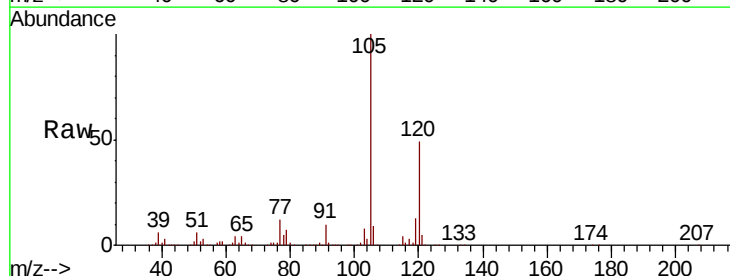
Acq: 9 Aug 2018 22:27

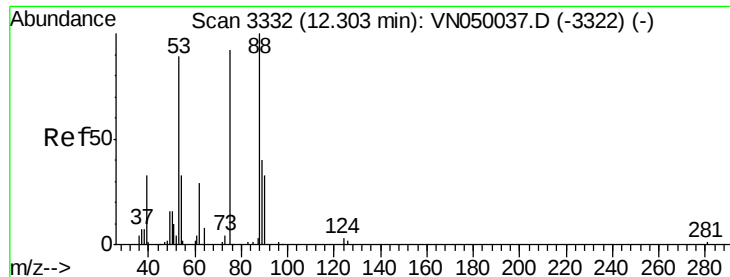
Tgt Ion: 105 Resp: 570855

Ion Ratio Lower Upper

105 100

120 49.0 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 13.70 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

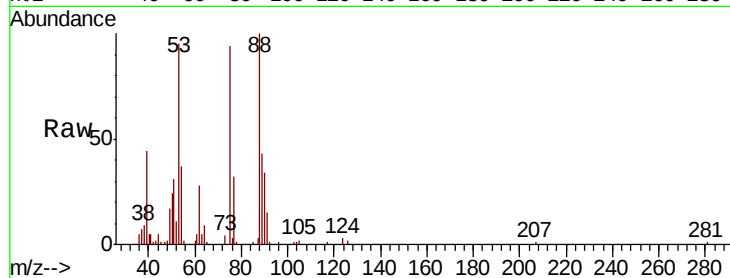
Tot Ion: 75 Resp: 38003

Ion Ratio Lower Upper

75 100

53 99.9 44.6 134.0

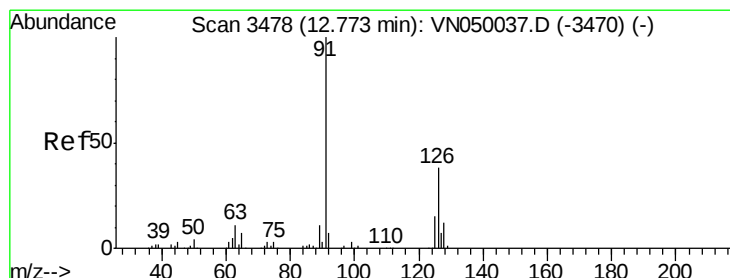
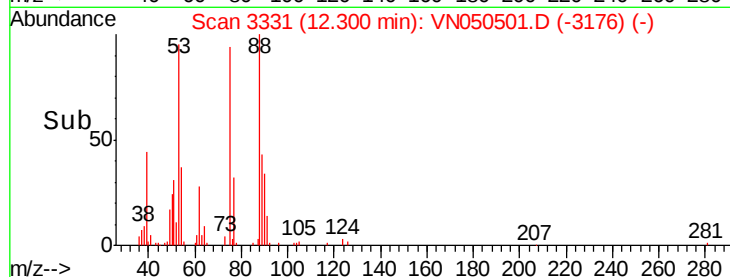
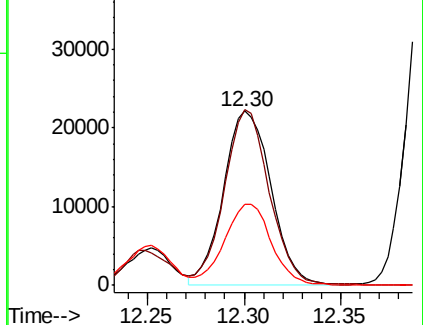
89 46.1 20.7 62.1



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: 19.17 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050501.D

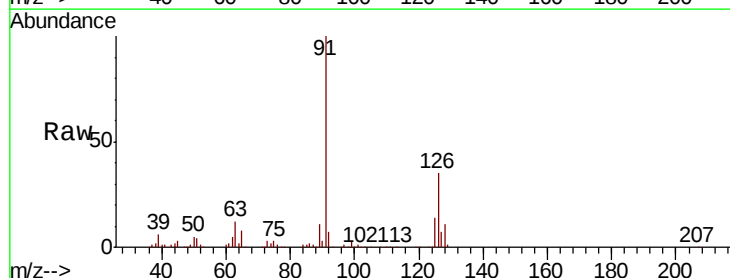
Acq: 9 Aug 2018 22:27

Tgt Ion: 91 Resp: 480890

Ion Ratio Lower Upper

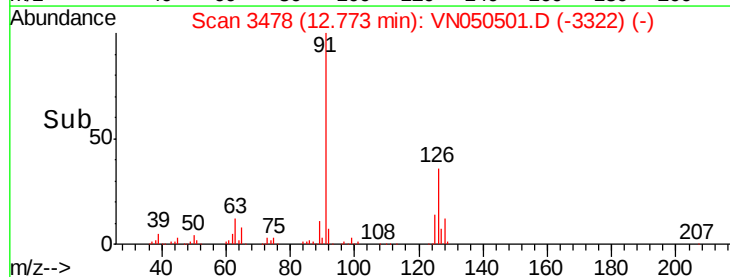
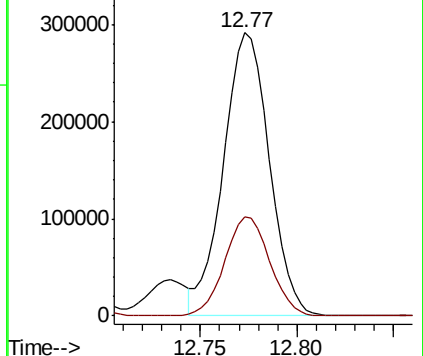
91 100

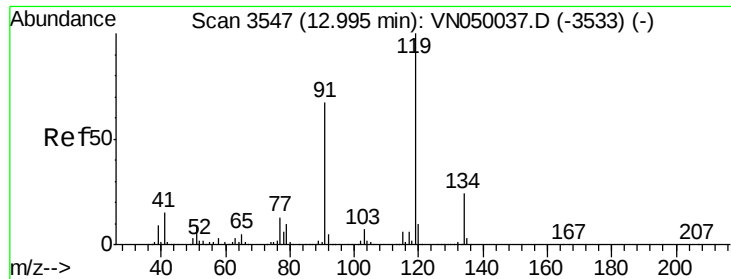
126 34.5 0.0 68.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

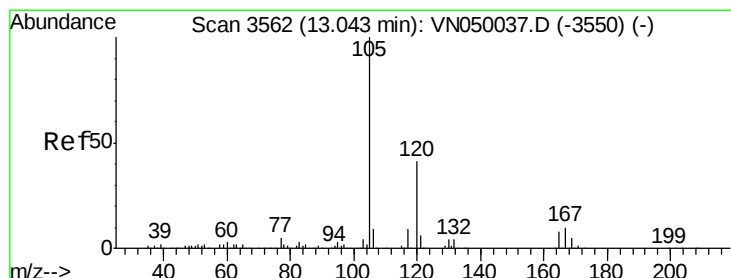
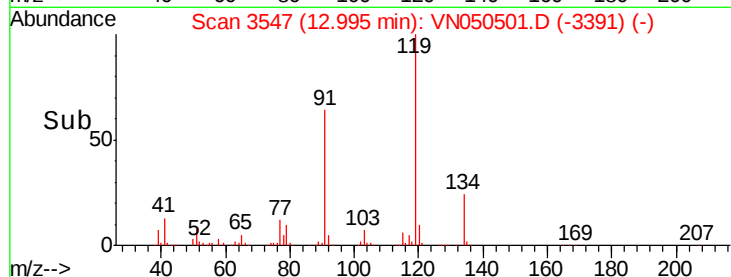
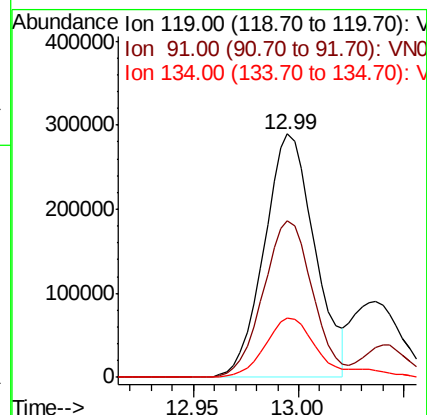
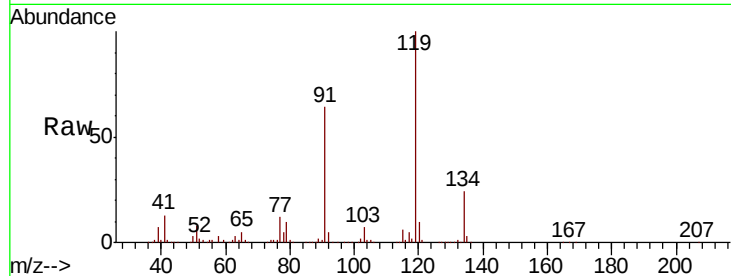




#79
tert-butylbenzene
Concen: 18.96 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

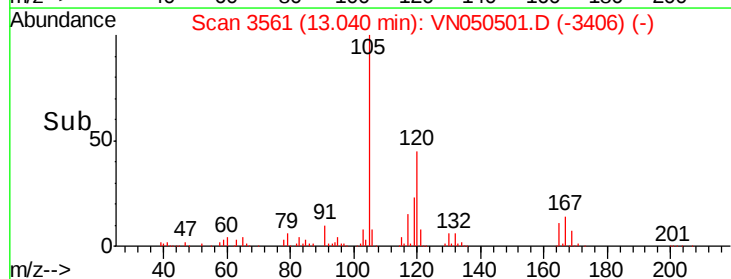
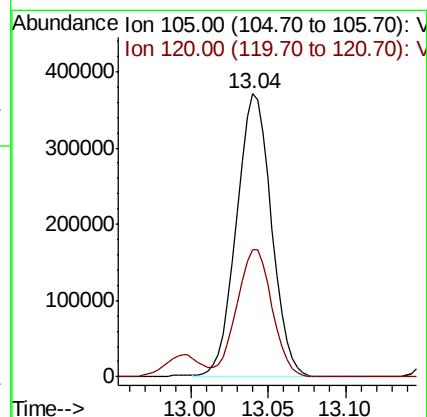
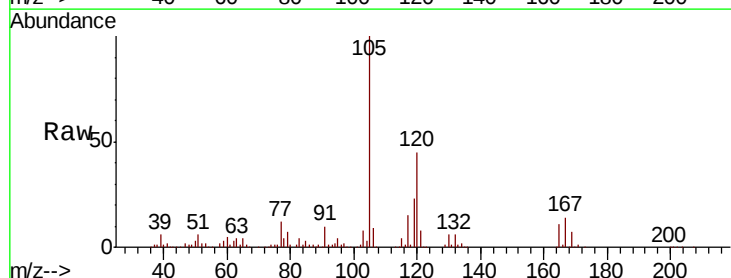
Instrument :
MSVOA_N
ClientSampleId :

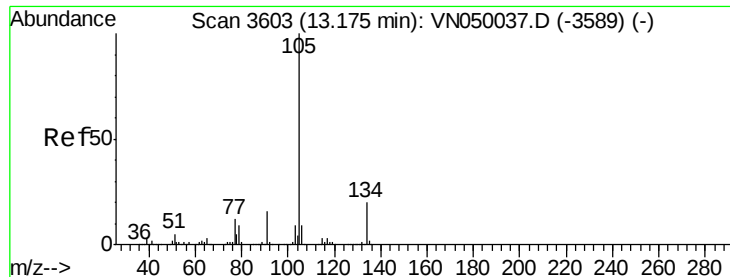
Tot Ion	Ratio	Lower	Upper
119	100		
91	63.2	0.0	126.8
134	24.2	0.0	47.4



#80
1,2,4-Trimethylbenzene
Concen: 19.34 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. -0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	0.0	90.6

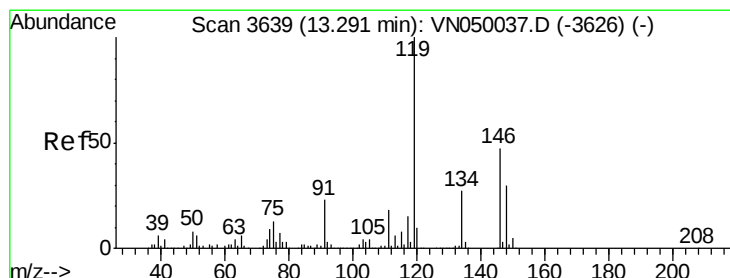
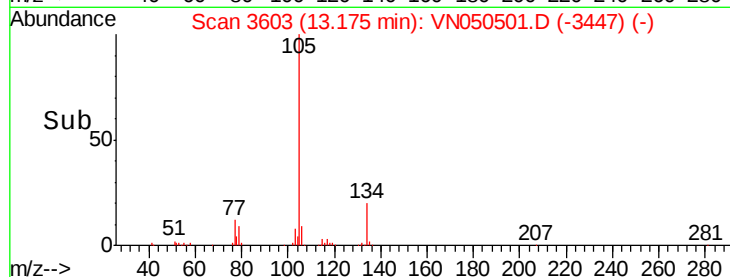
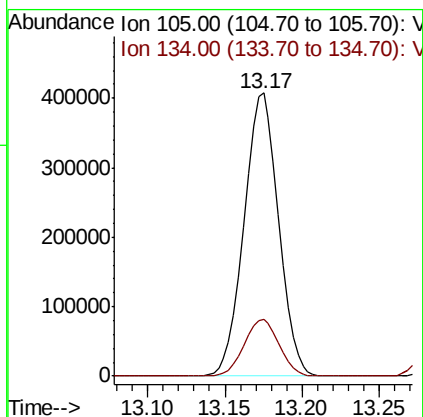
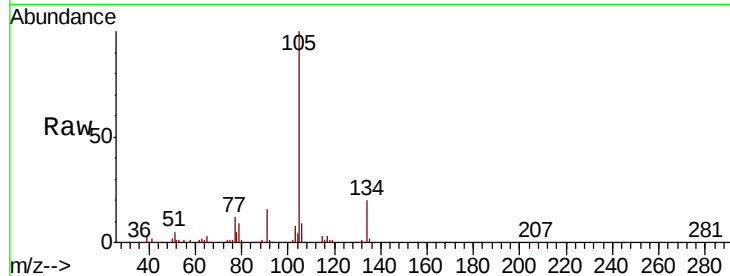




#81
 sec-Butylbenzene
 Concen: 18.33 ug/l
 RT: 13.17 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

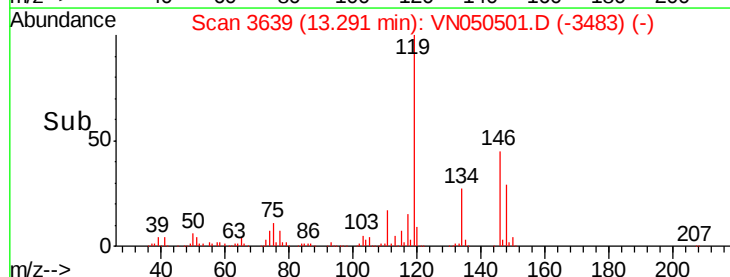
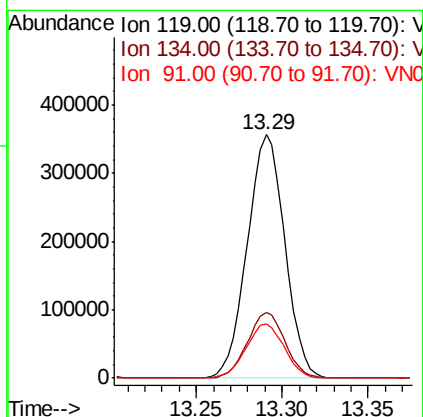
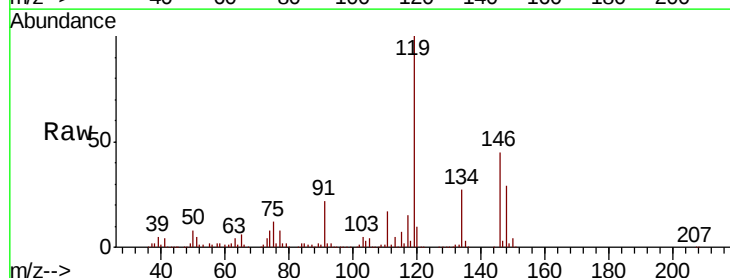
Instrument :
 MSVOA_N
 ClientSampleId :

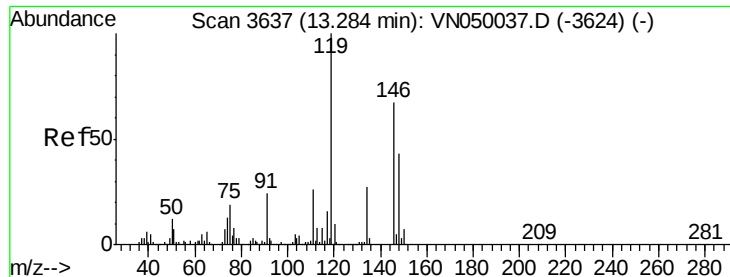
Tot Ion:105 Resp: 632865
 Ion Ratio Lower Upper
 105 100
 134 20.4 0.0 40.6



#82
 p-Isopropyltoluene
 Concen: 18.33 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion:119 Resp: 539995
 Ion Ratio Lower Upper
 119 100
 134 27.0 0.0 52.2
 91 22.6 0.0 45.6





#83

1,3-Dichlorobenzene

Concen: 18.79 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampled :

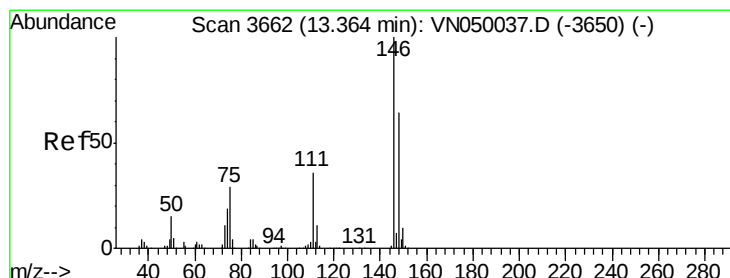
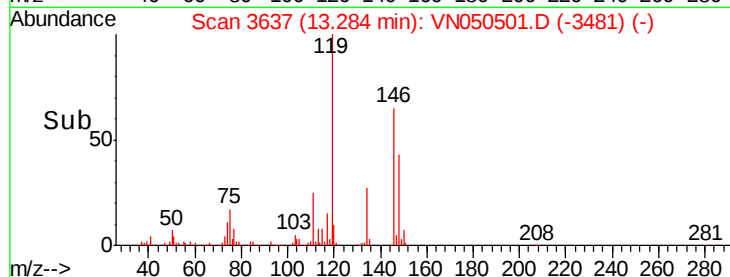
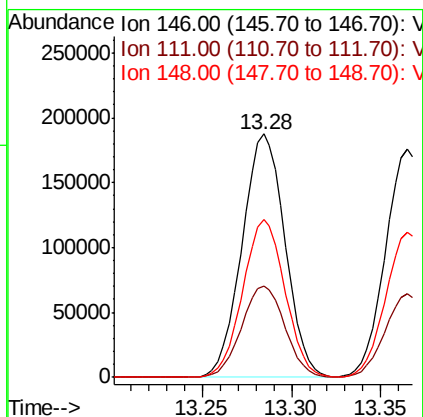
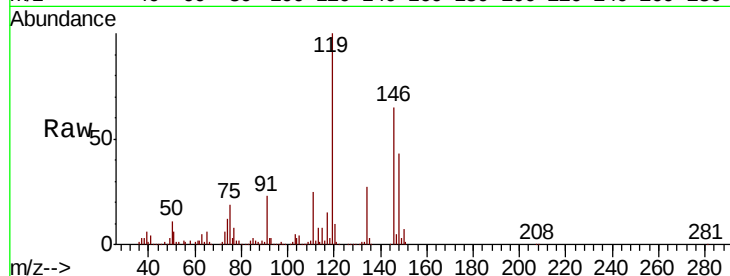
Tot Ion:146 Resp: 315431

Ion Ratio Lower Upper

146 100

111 37.9 19.1 57.1

148 63.7 31.9 95.9



#84

1,4-Dichlorobenzene

Concen: 18.66 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. 0.00 min

Lab File: VN050501.D

Acq: 9 Aug 2018 22:27

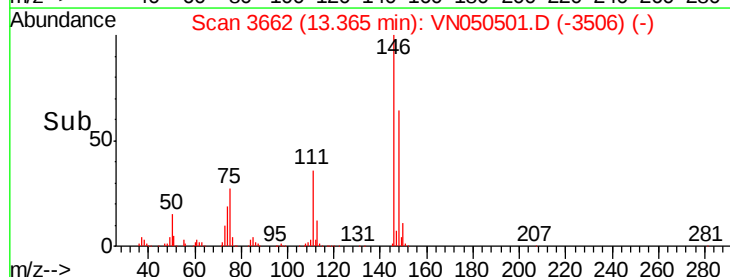
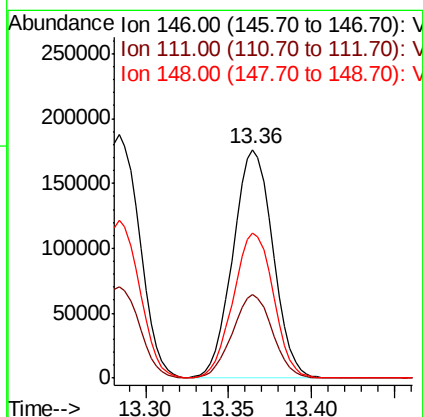
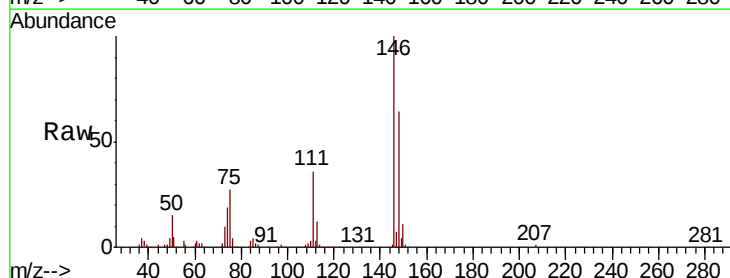
Tgt Ion:146 Resp: 296012

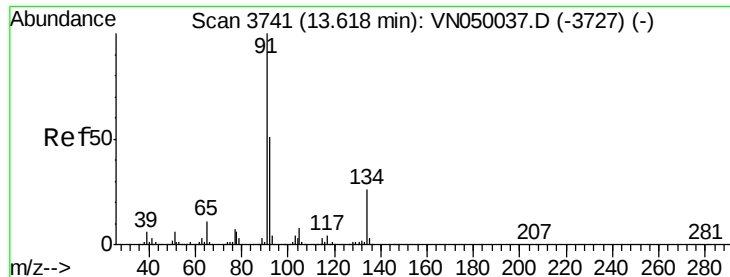
Ion Ratio Lower Upper

146 100

111 36.1 17.9 53.8

148 63.9 32.4 97.0

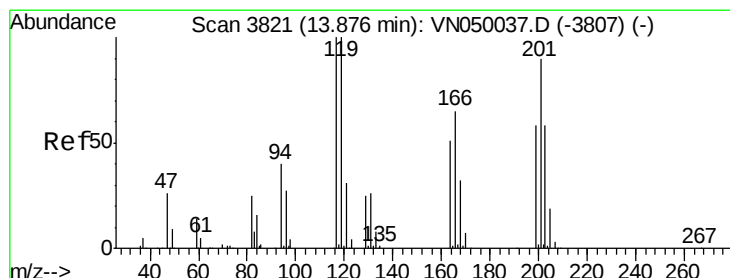
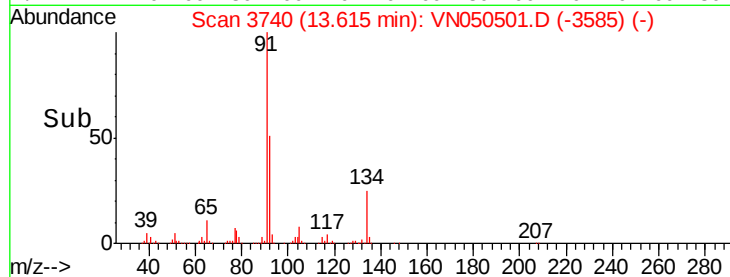
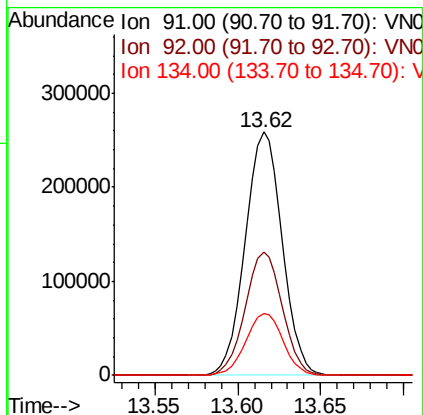
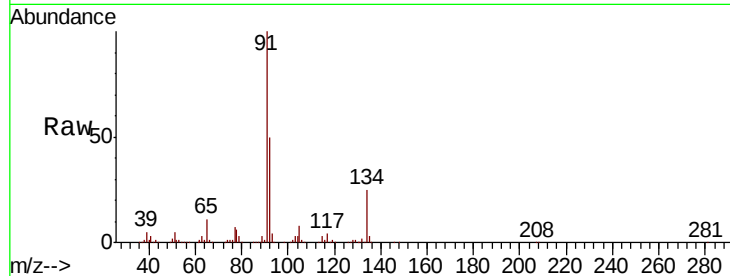




#85
n-Butylbenzene
Concen: 16.84 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

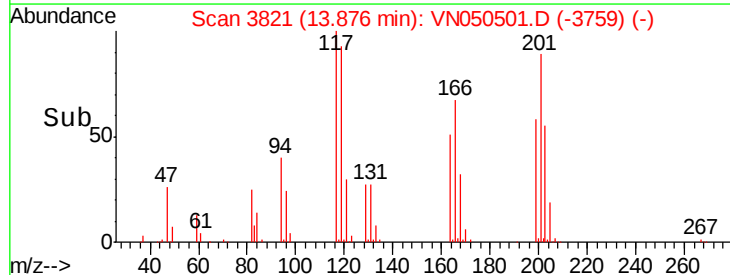
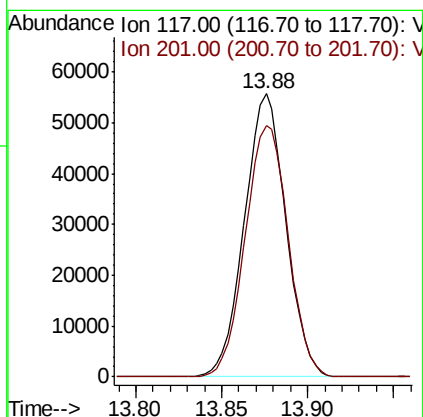
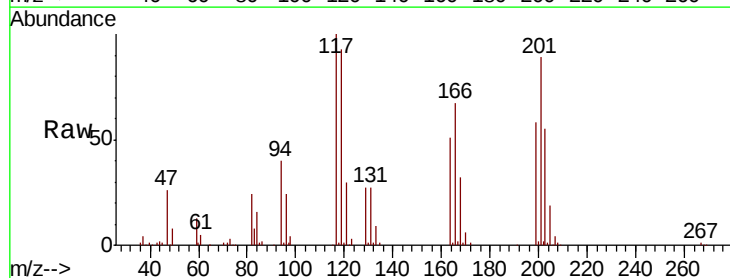
Instrument :
MSVOA_N
ClientSampled :

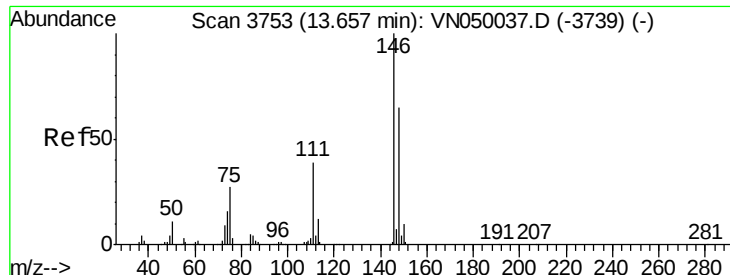
Tot Ion: 91 Resp: 402419
Ion Ratio Lower Upper
91 100
92 50.8 0.0 102.8
134 25.8 0.0 51.0



#86
Hexachloroethane
Concen: 15.86 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion: 117 Resp: 93339
Ion Ratio Lower Upper
117 100
201 91.9 46.6 139.7

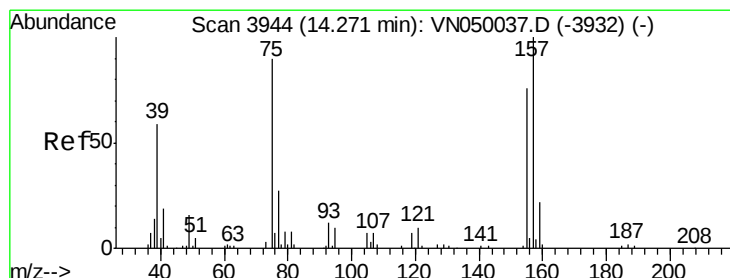
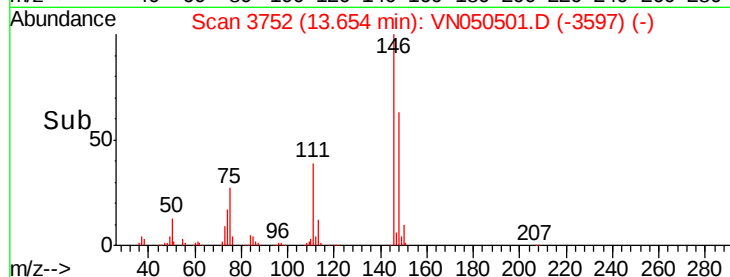
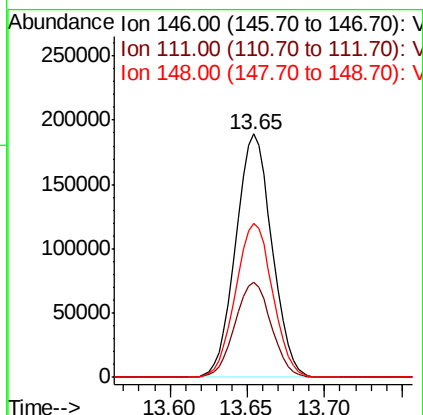
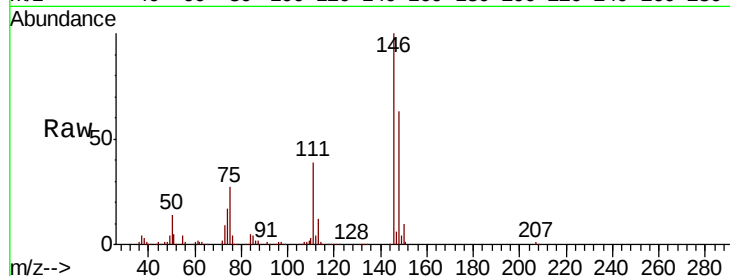




#87
 1,2-Dichlorobenzene
 Concen: 18.75 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

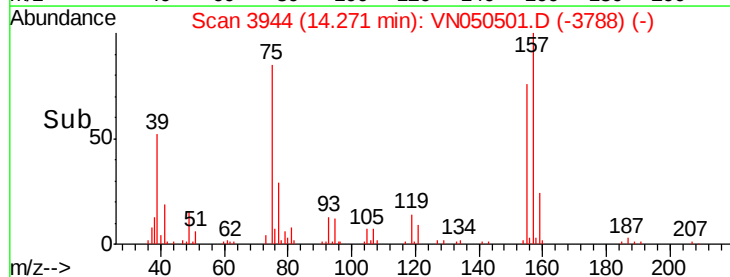
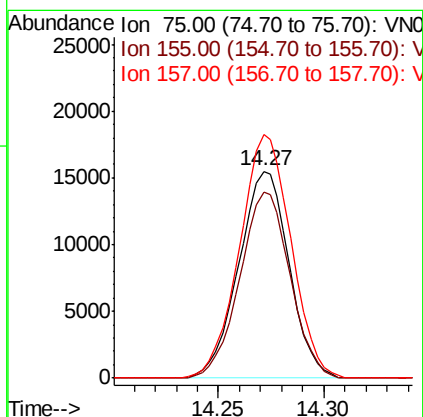
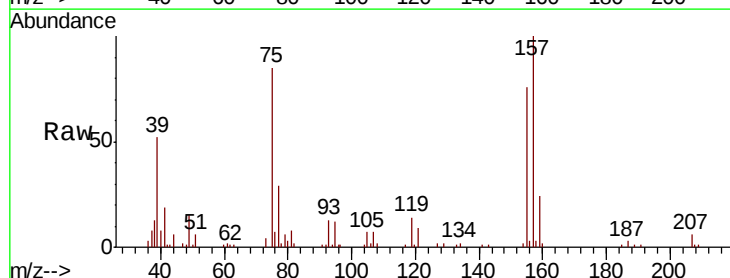
Instrument :
 MSVOA_N
 ClientSampled :

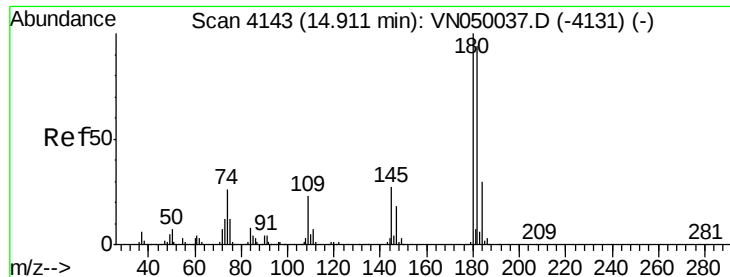
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.8	59.3
148	65.0	31.8	95.3



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 16.61 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.5	73.0	109.6
157	120.2	94.9	142.3

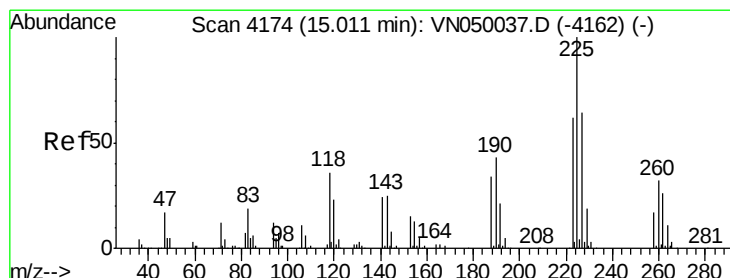
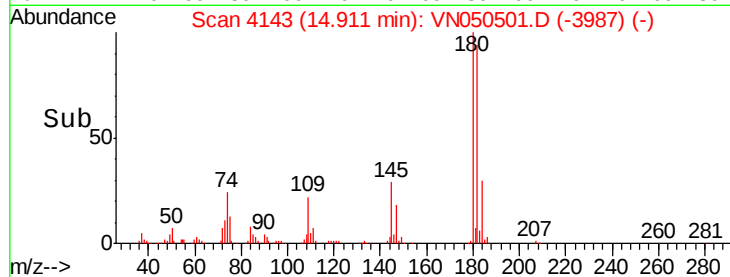
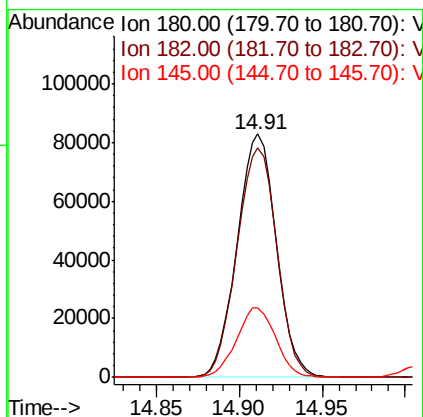
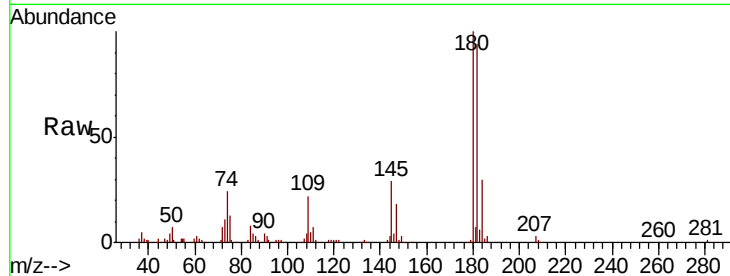




#89
 1,2,4-Trichlorobenzene
 Concen: 17.44 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

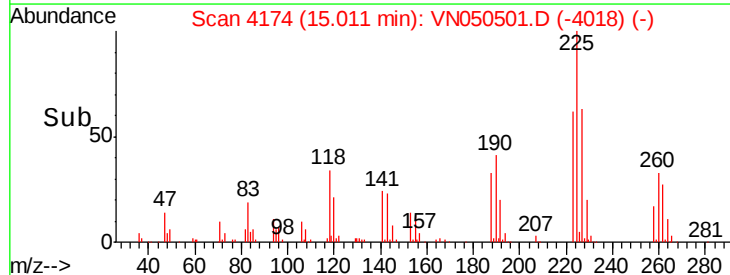
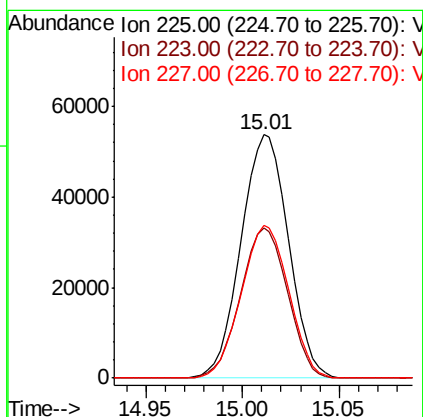
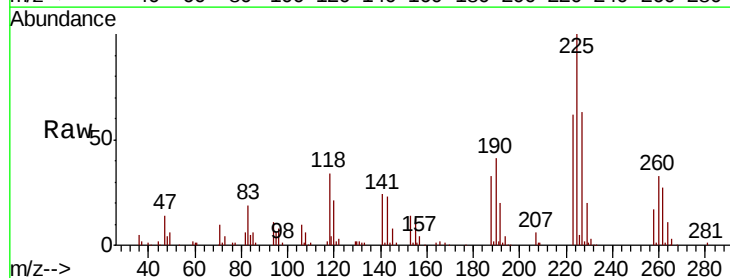
Instrument :
 MSVOA_N
 ClientSampled :

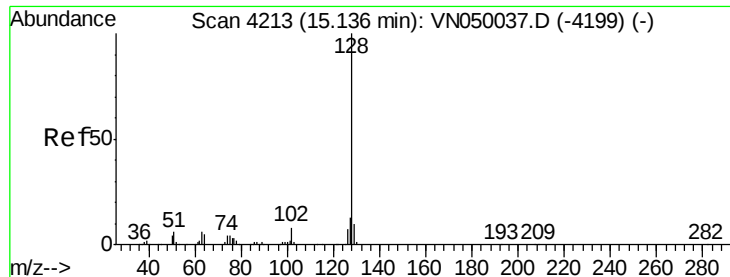
Tot Ion:180 Resp: 136646
 Ion Ratio Lower Upper
 180 100
 182 95.9 76.7 115.1
 145 28.7 23.4 35.0



#90
 Hexachlorobutadiene
 Concen: 17.77 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050501.D
 Acq: 9 Aug 2018 22:27

Tgt Ion:225 Resp: 91829
 Ion Ratio Lower Upper
 225 100
 223 61.2 0.0 124.4
 227 62.6 0.0 133.0

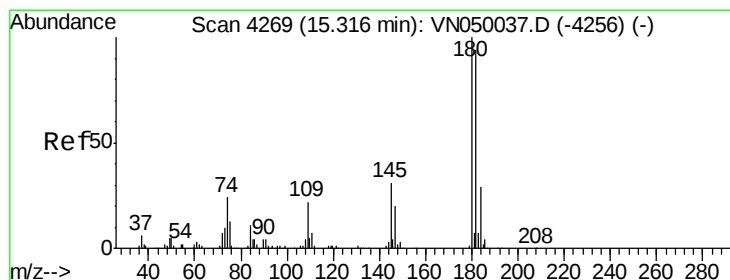
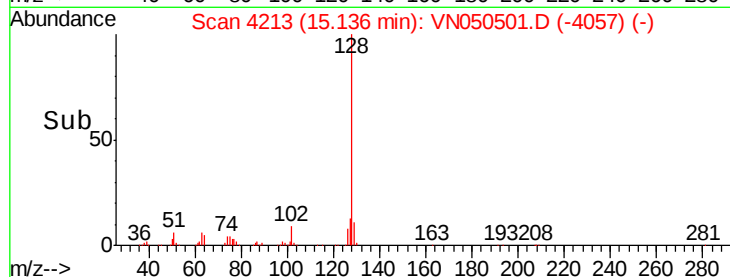
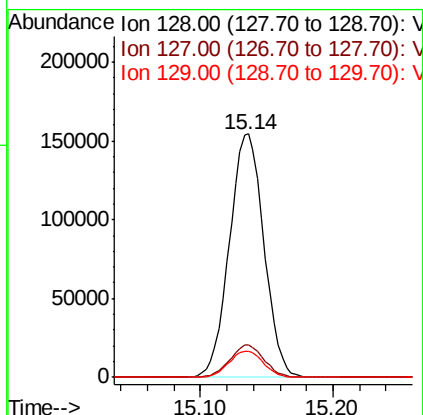
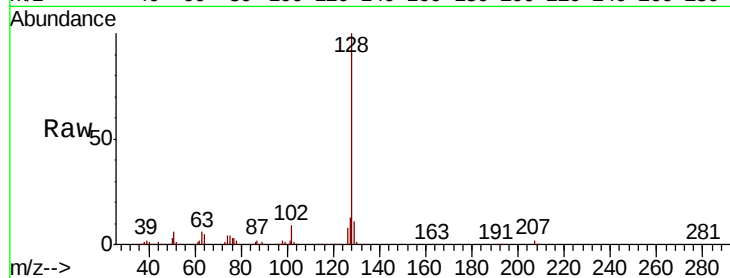




#91
Naphthalene
Concen: 18.99 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.4
129	10.7	9.0	13.4



#92
1,2,3-Trichlorobenzene
Concen: 17.49 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050501.D
Acq: 9 Aug 2018 22:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	0.0	188.8
145	29.9	0.0	60.8

