

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054281.D
 Acq On : 15 Mar 2019 00:54
 Operator : JC/SP
 Sample : VN0314WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

Quant Time: Mar 15 06:59:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1327101	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2075162	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1775491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	791627	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	731695	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
35) Dibromofluoromethane	7.59	113	674764	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
50) Toluene-d8	10.09	98	2405092	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	12.40	95	789983	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	264992	21.069	ug/l	98
3) Chloromethane	2.06	50	241747	19.787	ug/l	99
4) Vinyl Chloride	2.19	62	284261	20.356	ug/l	100
5) Bromomethane	2.58	94	190406	19.687	ug/l	93
6) Chloroethane	2.71	64	169360	20.045	ug/l	98
7) Trichlorofluoromethane	3.02	101	369836	19.920	ug/l	99
8) Diethyl Ether	3.41	74	193057	22.819	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	299316	21.514	ug/l	99
10) Methyl Iodide	3.94	142	362872	19.313	ug/l	99
11) Tert butyl alcohol	4.82	59	93553	96.826	ug/l #	89
12) 1,1-Dichloroethene	3.73	96	298635	21.660	ug/l	98
13) Acrolein	3.61	56	66382	72.505	ug/l	99
14) Allyl chloride	4.32	41	345557	19.535	ug/l	100
15) Acrylonitrile	5.00	53	439953	110.852	ug/l	99
16) Acetone	3.82	43	319359	79.140	ug/l	100
17) Carbon Disulfide	4.04	76	602556	17.434	ug/l	99
18) Methyl Acetate	4.33	43	199256	24.406	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	745410	21.812	ug/l	100
20) Methylene Chloride	4.55	84	286037	21.587	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	278119	21.054	ug/l	98
22) Diisopropyl ether	5.96	45	757837	21.466	ug/l	99
23) Vinyl Acetate	5.90	43	2640685	101.446	ug/l	100
24) 1,1-Dichloroethane	5.85	63	485674	21.425	ug/l	99
25) 2-Butanone	6.85	43	483318	102.045	ug/l	99
26) 2,2-Dichloropropane	6.82	77	287957	14.445	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	327645	22.233	ug/l	94
28) Bromochloromethane	7.19	49	188006	20.287	ug/l	96
29) Tetrahydrofuran	7.22	42	324525	106.567	ug/l	99
30) Chloroform	7.37	83	518207	21.907	ug/l	99
31) Cyclohexane	7.65	56	434543	19.761	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	442510	20.714	ug/l	99
36) 1,1-Dichloropropene	7.79	75	378764	19.820	ug/l	99
37) Ethyl Acetate	6.94	43	220446	20.076	ug/l	99
38) Carbon Tetrachloride	7.77	117	377774	18.850	ug/l	97

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 ClientSampleId :
 VN0314WBS02

Quant Time: Mar 15 06:59:17 2019
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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	441650	18.783	ug/l	100
40) Benzene	8.04	78	1151748	21.061	ug/l	100
41) Methacrylonitrile	7.18	41	109725	17.501	ug/l	88
42) 1,2-Dichloroethane	8.13	62	388186	21.025	ug/l	99
43) Isopropyl Acetate	8.17	43	373360	19.371	ug/l	100
44) Trichloroethene	8.83	130	350174	20.613	ug/l	99
45) 1,2-Dichloropropane	9.12	63	288354	21.235	ug/l	98
46) Dibromomethane	9.21	93	189568	20.662	ug/l	98
47) Bromodichloromethane	9.40	83	375239	20.401	ug/l	99
48) Methyl methacrylate	9.20	41	188926	19.315	ug/l	94
49) 1,4-Dioxane	9.21	88	58778	424.835	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1051542	103.093	ug/l	100
52) Toluene	10.16	92	718430	20.719	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	319222	16.557	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	395363	18.446	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	265472	20.968	ug/l	99
56) Ethyl methacrylate	10.43	69	302729	20.053	ug/l	99
57) 1,3-Dichloropropane	10.71	76	434266	20.976	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	550421	95.210	ug/l	99
59) 2-Hexanone	10.75	43	651074	95.929	ug/l	100
60) Dibromochloromethane	10.90	129	277682	19.485	ug/l	100
61) 1,2-Dibromoethane	11.01	107	270400	21.016	ug/l	98
64) Tetrachloroethene	10.63	164	369133	21.503	ug/l	97
65) Chlorobenzene	11.43	112	821637	21.076	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	293196	20.703	ug/l	98
67) Ethyl Benzene	11.51	91	1321822	20.454	ug/l	100
68) m/p-Xylenes	11.62	106	1043494	41.313	ug/l	98
69) o-Xylene	11.95	106	516806	20.989	ug/l	98
70) Styrene	11.96	104	782704	20.269	ug/l	99
71) Bromoform	12.13	173	176980	17.973	ug/l #	100
73) Isopropylbenzene	12.25	105	1361199	21.492	ug/l	99
74) N-amyl acetate	12.07	43	276291	19.653	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	294774	21.845	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	343486	29.506	ug/l #	100
77) Bromobenzene	12.53	156	361047	21.543	ug/l	96
78) n-propylbenzene	12.59	91	1434208	20.869	ug/l	100
79) 2-Chlorotoluene	12.68	91	873222	21.133	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1109363	21.058	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	47451	13.934	ug/l #	85
82) 4-Chlorotoluene	12.77	91	843071	20.433	ug/l	99
83) tert-Butylbenzene	12.99	119	1037485	21.396	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1101196	21.307	ug/l	99
85) sec-Butylbenzene	13.17	105	1308310	20.805	ug/l	100
86) p-Isopropyltoluene	13.29	119	1126319	20.416	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	586062	20.753	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	568111	20.478	ug/l	99
89) n-Butylbenzene	13.62	91	802136	19.136	ug/l	100
90) Hexachloroethane	13.88	117	165368	18.102	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	591620	21.430	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	41475	19.863	ug/l	98

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

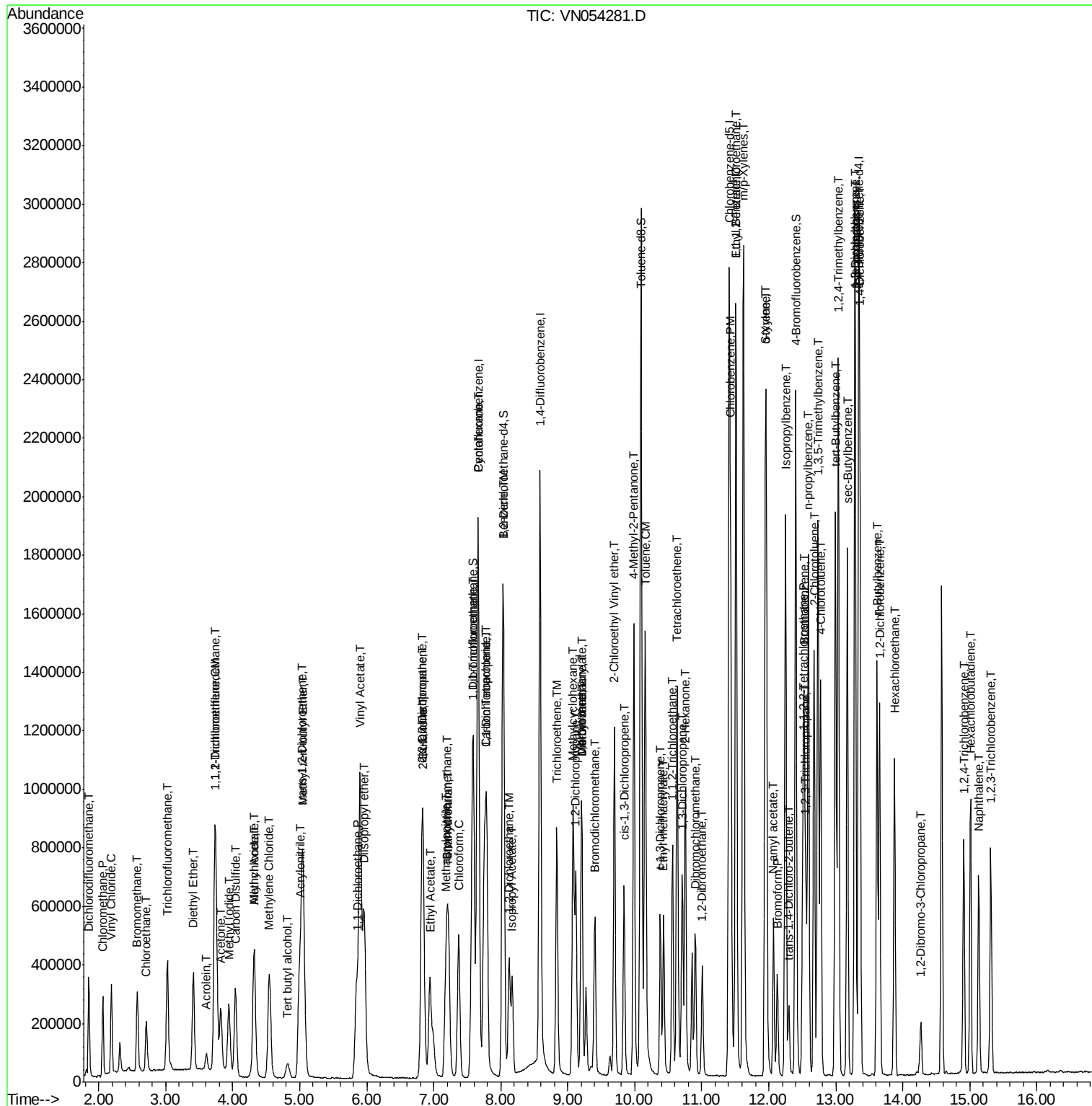
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	290968	19.095	ug/l	99
94) Hexachlorobutadiene	15.01	225	205238	19.517	ug/l	98
95) Naphthalene	15.13	128	606578	19.727	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	302453	20.619	ug/l	99

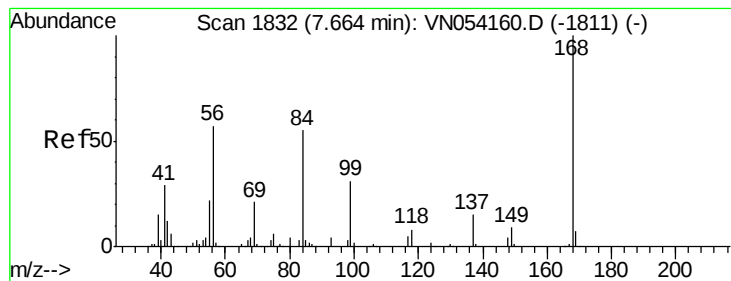
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 15 06:59:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

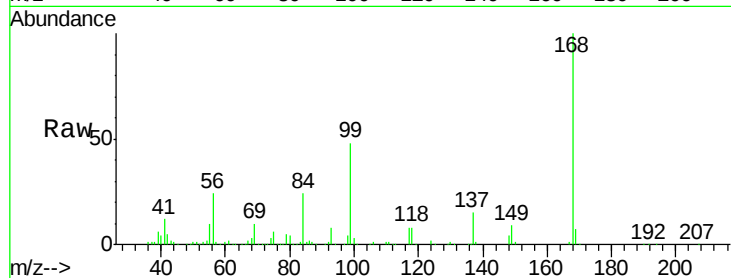
VN0314WBS02

Tot Ion:168 Resp: 1327101

Ion Ratio Lower Upper

168 100

99 47.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

600000

500000

400000

300000

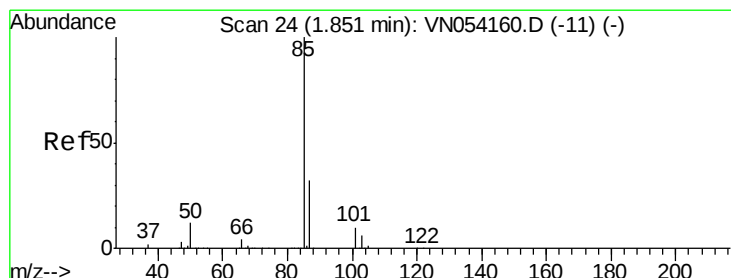
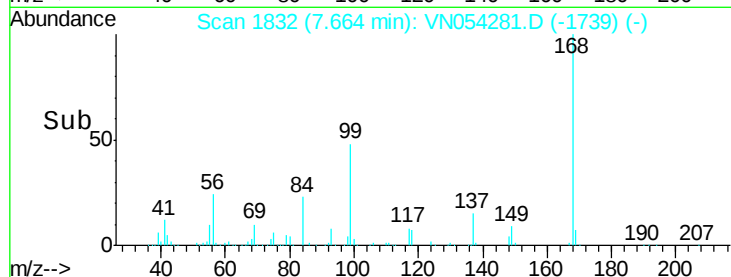
200000

100000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.069 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054281.D

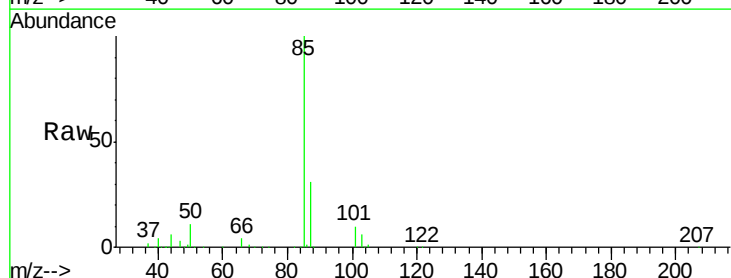
Acq: 15 Mar 2019 00:54

Tgt Ion: 85 Resp: 264992

Ion Ratio Lower Upper

85 100

87 30.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200000

150000

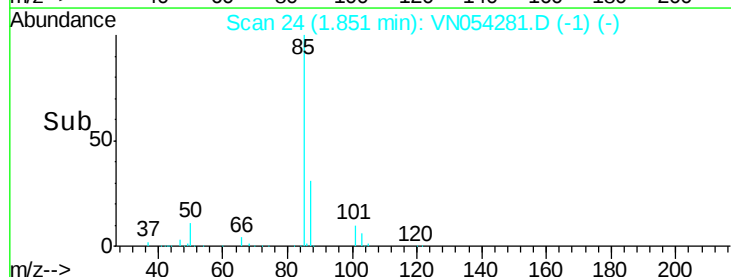
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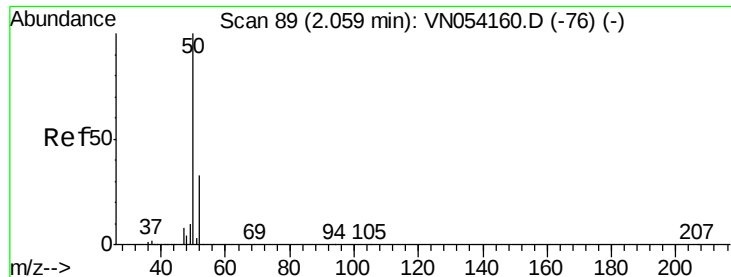
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.787 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

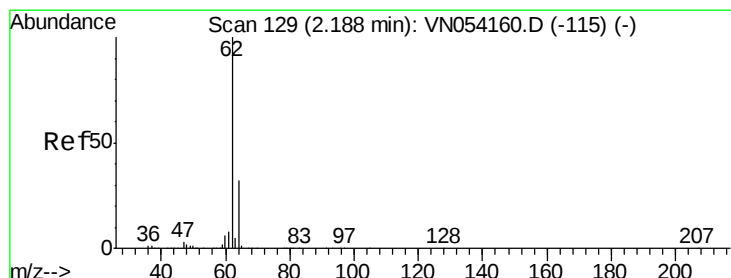
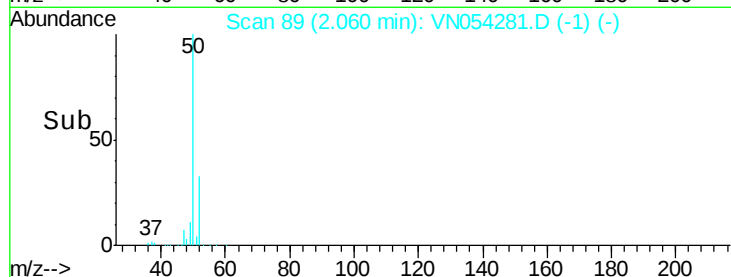
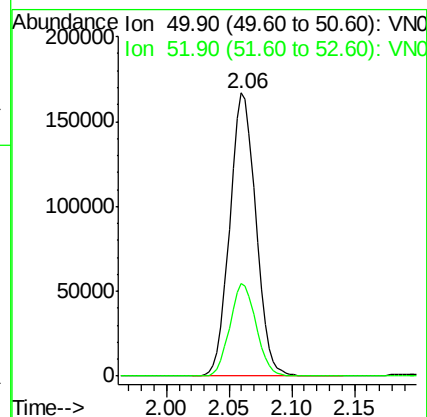
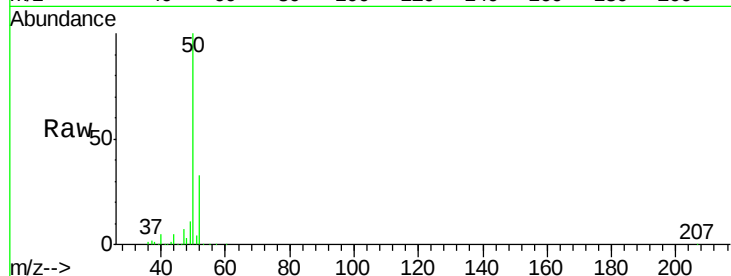
VN0314WBS02

Tot Ion: 50 Resp: 241747

Ion Ratio Lower Upper

50 100

52 32.6 26.4 39.6



#4

Vinyl Chloride

Concen: 20.356 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054281.D

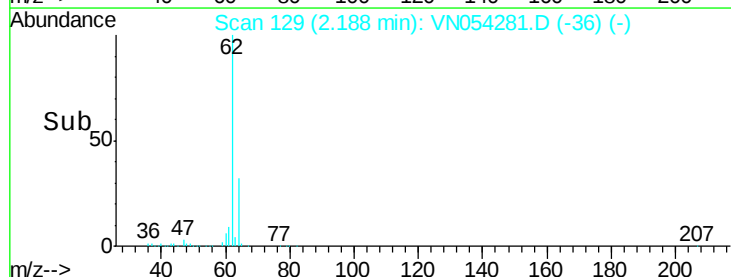
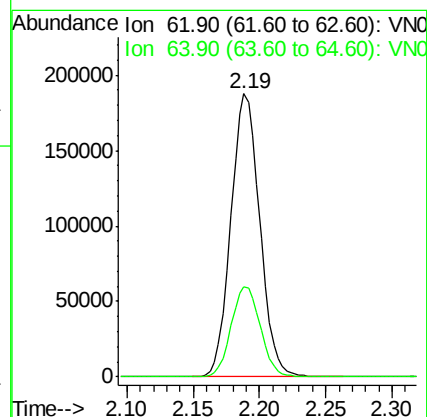
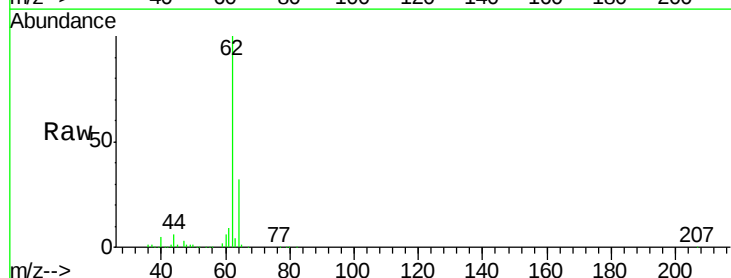
Acq: 15 Mar 2019 00:54

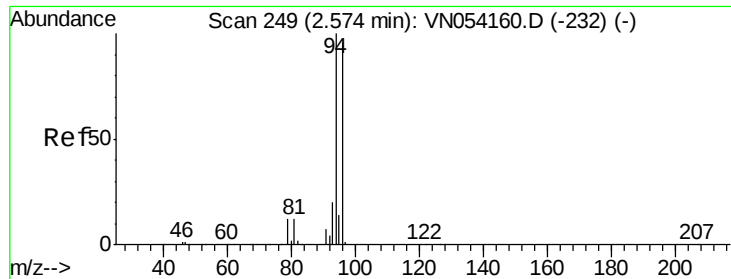
Tgt Ion: 62 Resp: 284261

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3





#5

Bromomethane

Concen: 19.687 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

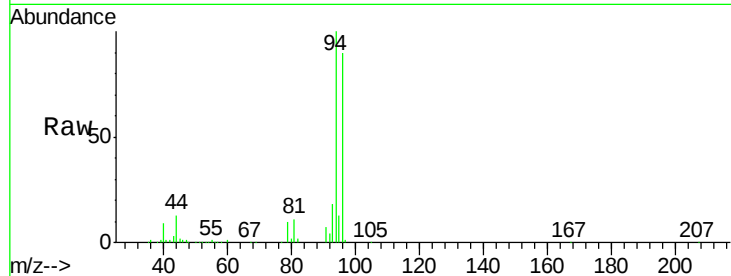
VN0314WBS02

Tot Ion: 94 Resp: 190406

Ion Ratio Lower Upper

94 100

96 89.8 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN054281.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054281.D (-156) (-)

2.58

120000

100000

80000

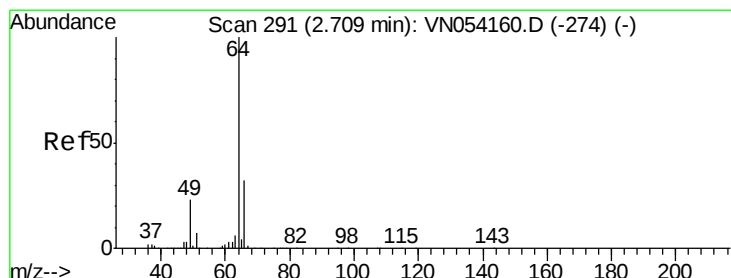
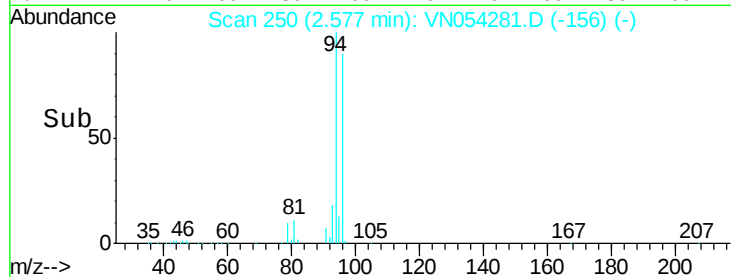
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 20.045 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054281.D

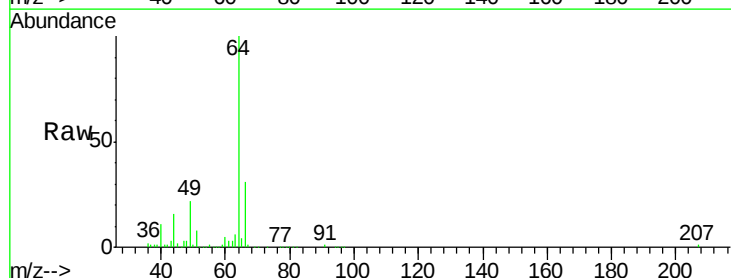
Acq: 15 Mar 2019 00:54

Tgt Ion: 64 Resp: 169360

Ion Ratio Lower Upper

64 100

66 31.3 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN054281.D (-198) (-)

Ion 65.90 (65.60 to 66.60): VN054281.D (-198) (-)

2.71

100000

80000

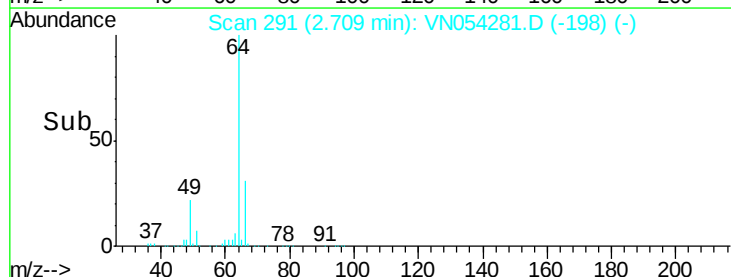
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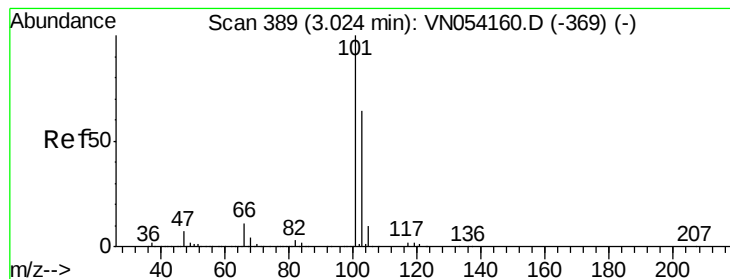
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20000

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Time-->



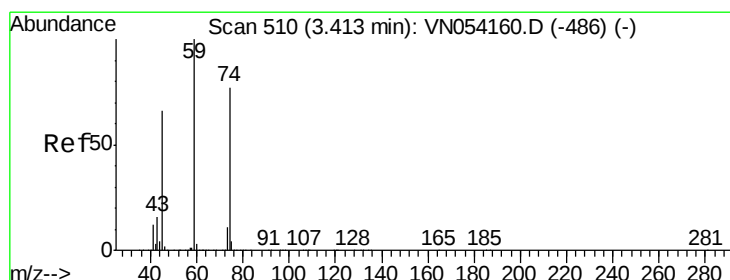
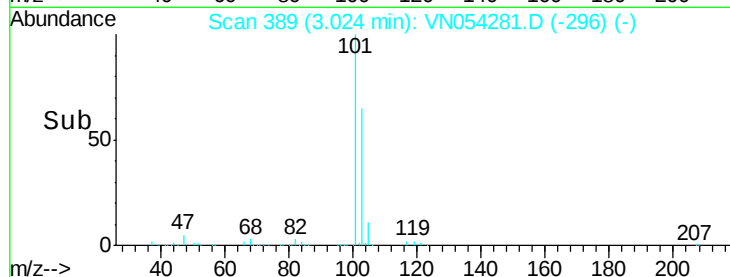
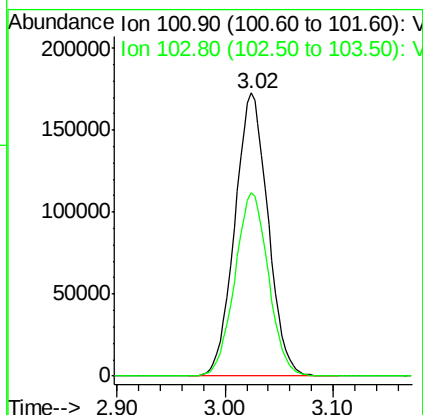
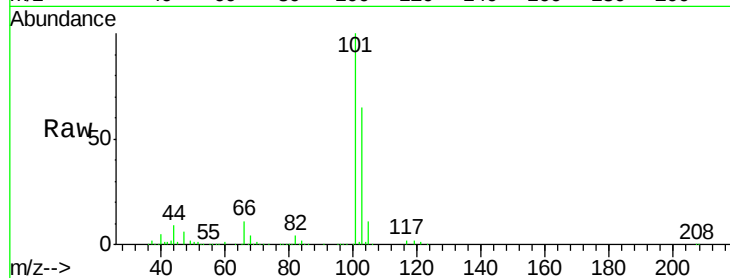


#7

Trichlorofluoromethane
 Concen: 19.920 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Instrument :
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 VN0314WBS02

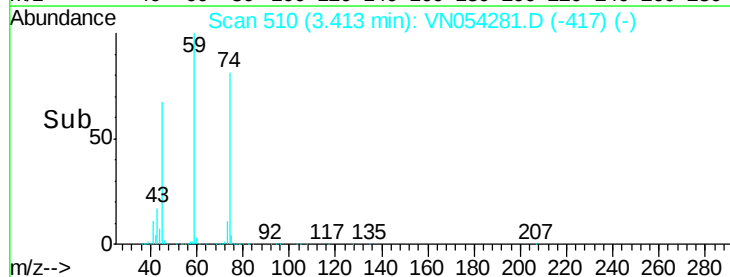
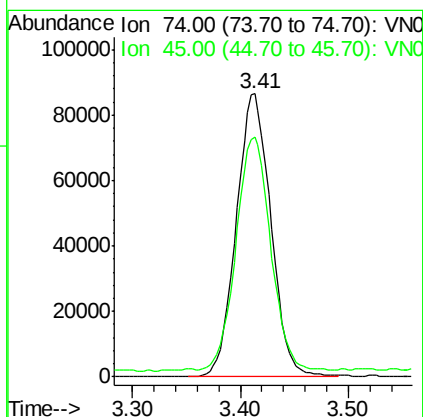
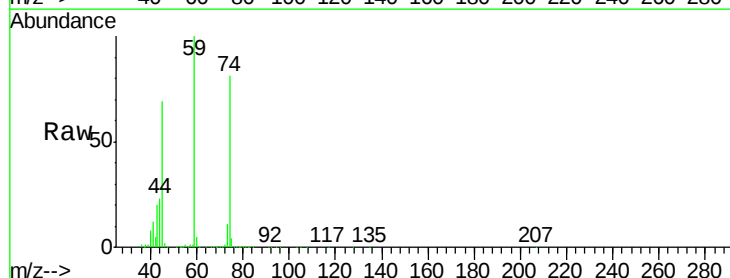
Tot Ion:101 Resp: 369836
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.4 77.2

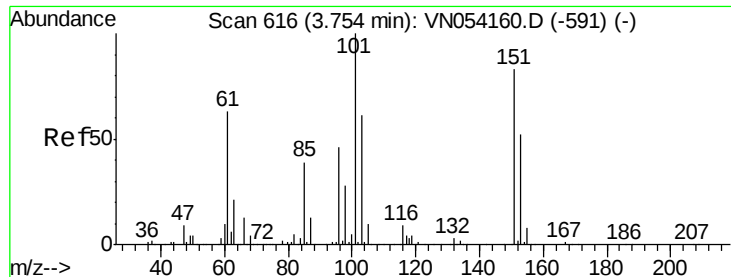


#8

Diethyl Ether
 Concen: 22.819 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion: 74 Resp: 193057
 Ion Ratio Lower Upper
 74 100
 45 82.4 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.514 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

VN0314WBS02

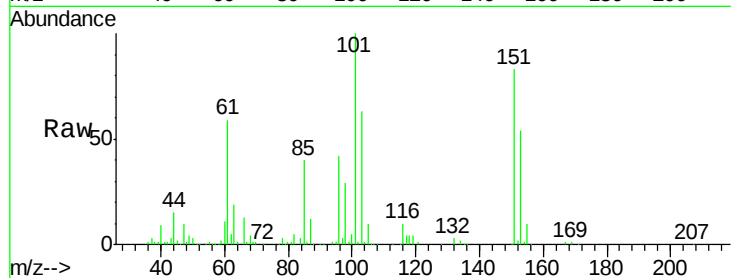
Tot Ion:101 Resp: 299316

Ion Ratio Lower Upper

101 100

85 39.1 32.4 48.6

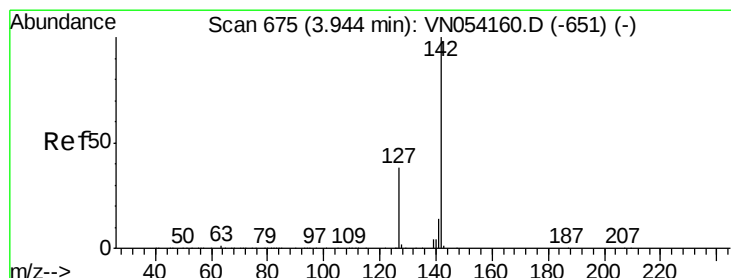
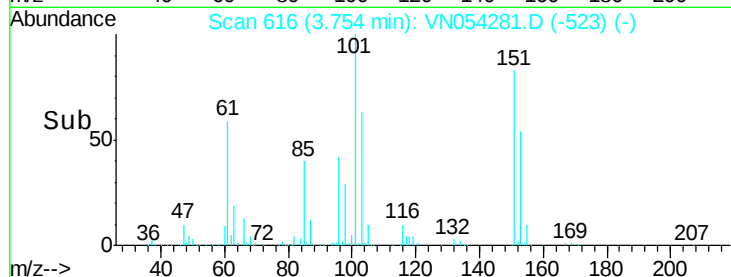
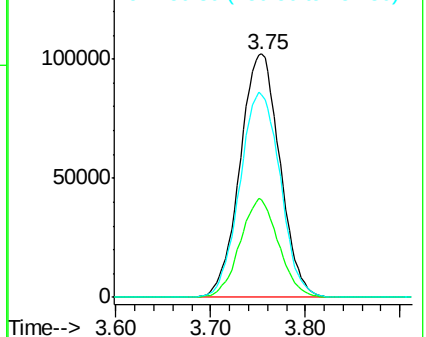
151 85.4 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.313 ug/l

RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

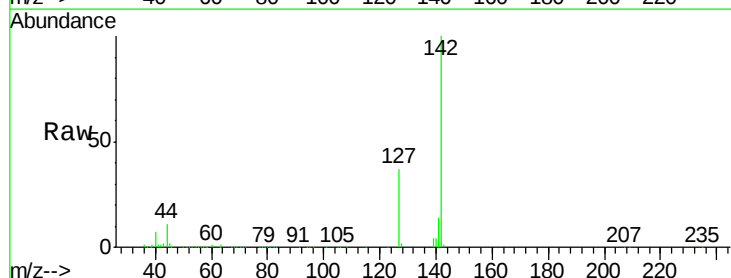
Tgt Ion:142 Resp: 362872

Ion Ratio Lower Upper

142 100

127 36.9 30.3 45.5

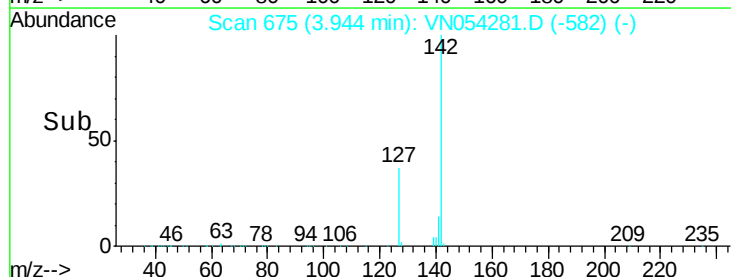
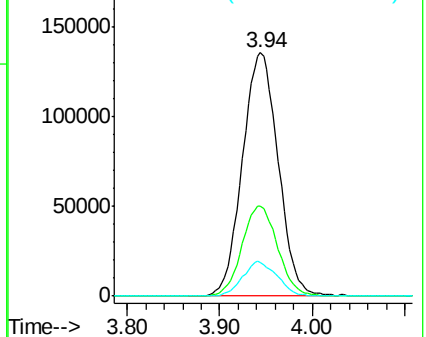
141 13.7 11.2 16.8

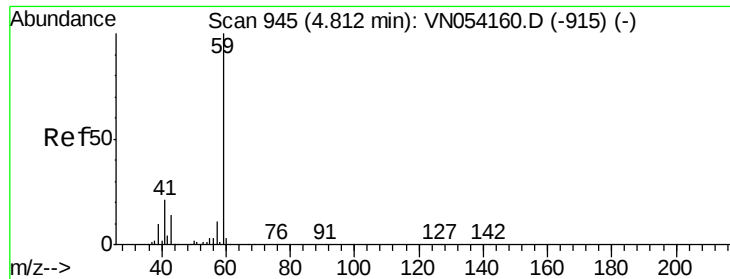


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

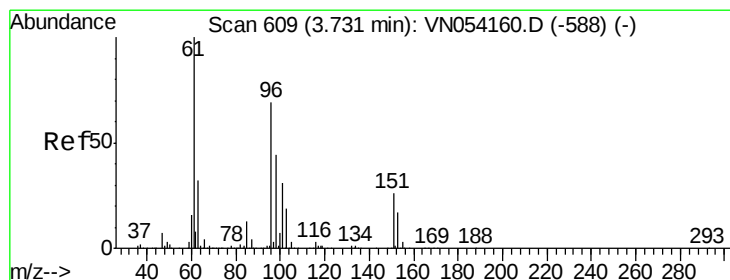
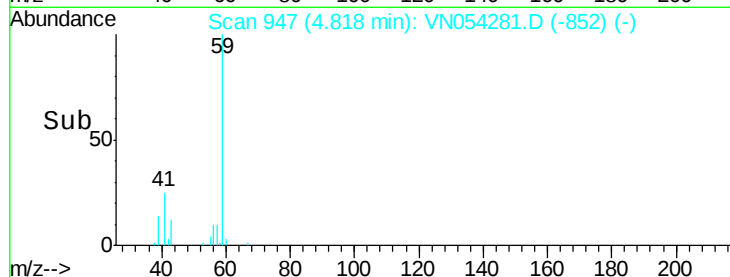
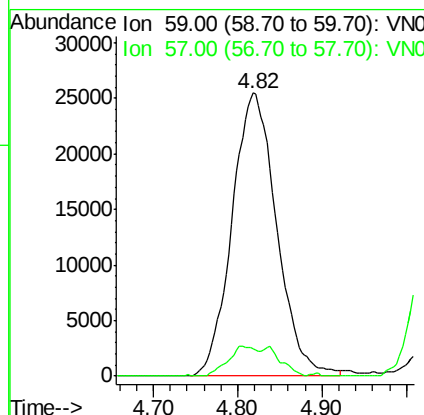
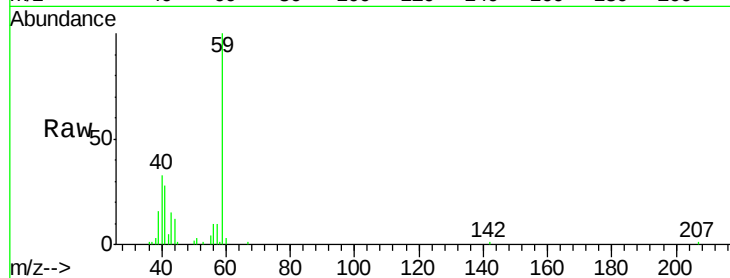




#11
Tert butyl alcohol
Concen: 96.826 ug/l
RT: 4.82 min Scan# 947
Delta R.T. 0.01 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

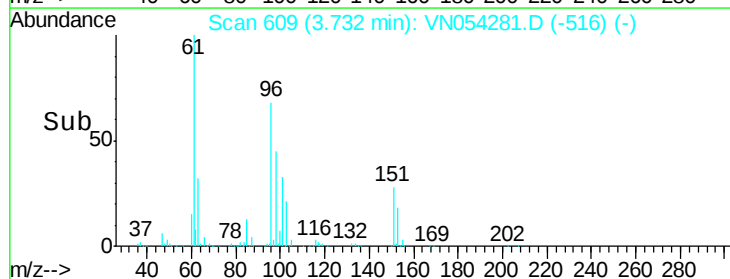
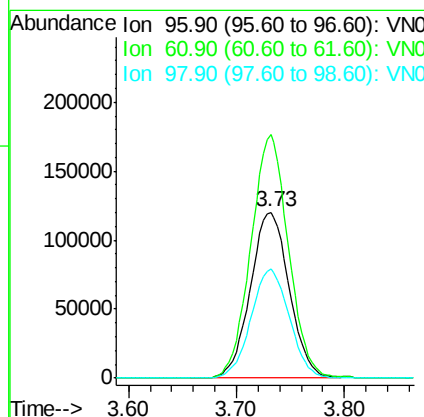
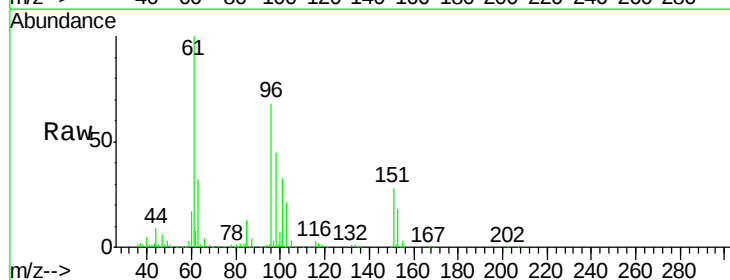
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

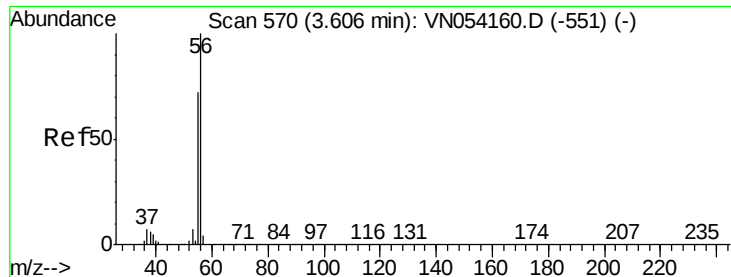
Tot Ion: 59 Resp: 93553
Ion Ratio Lower Upper
59 100
57 7.2 9.0 13.6#



#12
1,1-Dichloroethene
Concen: 21.660 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 96 Resp: 298635
Ion Ratio Lower Upper
96 100
61 147.1 116.5 174.7
98 65.9 51.0 76.4





#13

Acrolein

Concen: 72.505 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

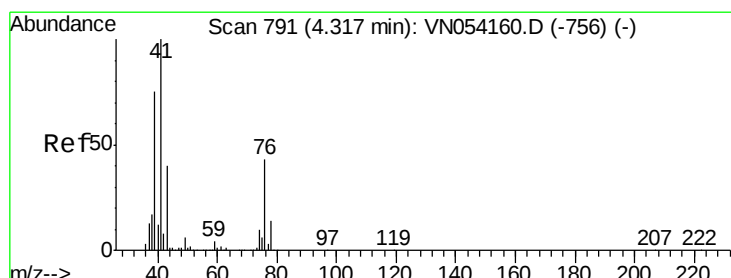
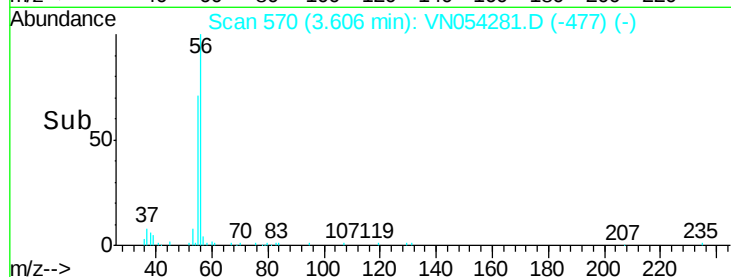
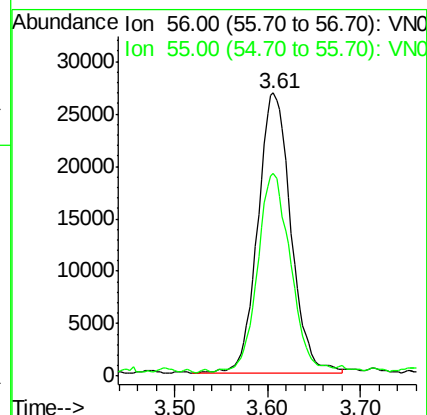
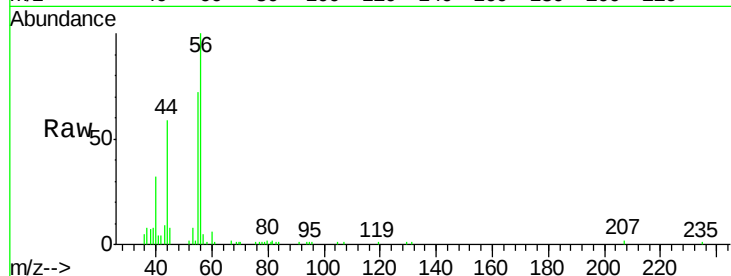
VN0314WBS02

Tot Ion: 56 Resp: 66382

Ion Ratio Lower Upper

56 100

55 70.1 56.7 85.1



#14

Allyl chloride

Concen: 19.535 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

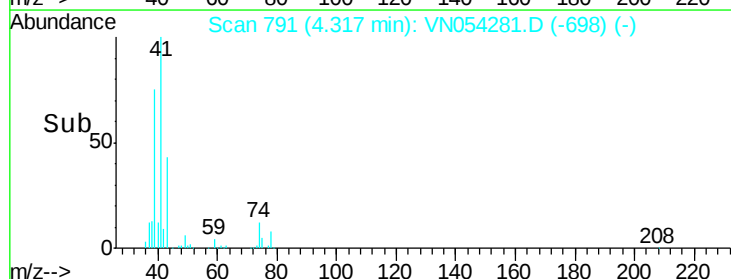
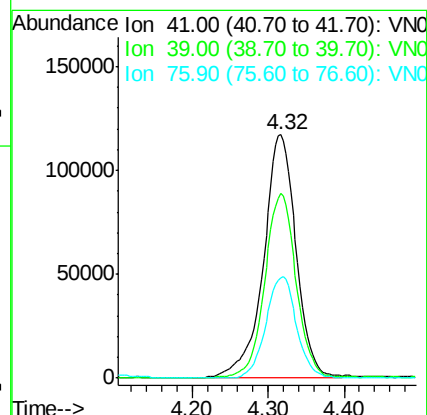
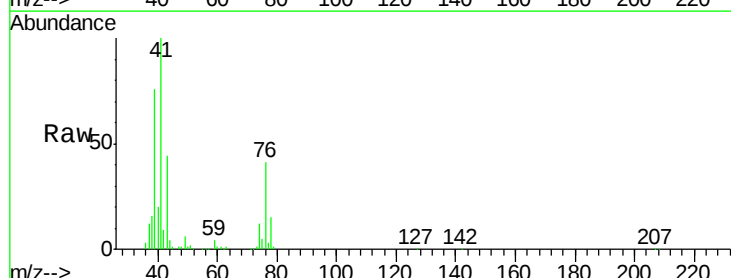
Tgt Ion: 41 Resp: 345557

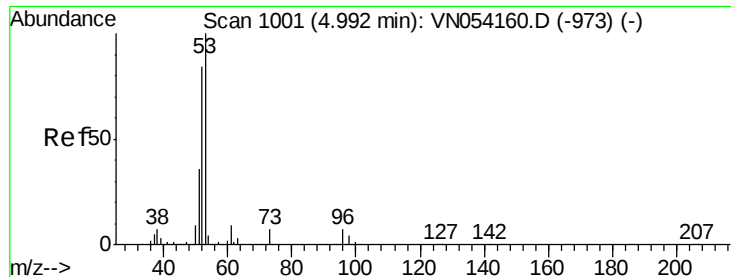
Ion Ratio Lower Upper

41 100

39 72.4 58.2 87.4

76 39.7 31.7 47.5





#15

Acrylonitrile

Concen: 110.852 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

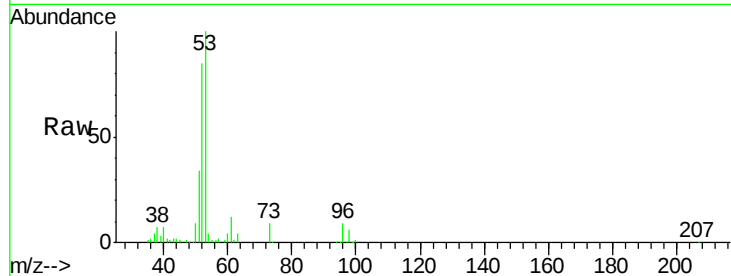
Tot Ion: 53 Resp: 439953

Ion Ratio Lower Upper

53 100

52 82.6 66.4 99.6

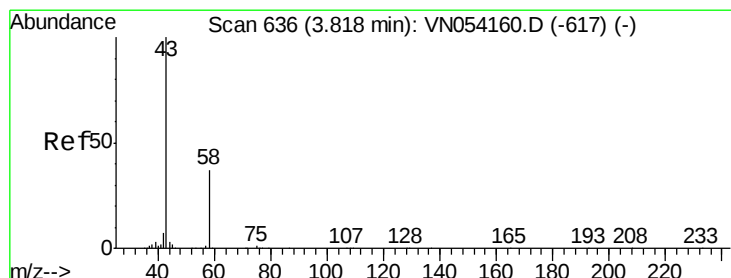
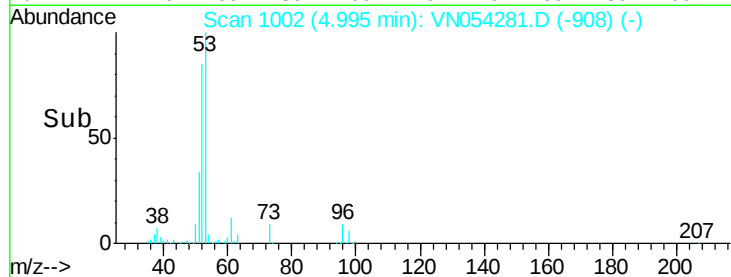
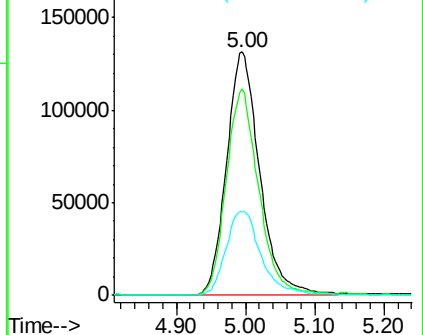
51 36.7 29.6 44.4



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



#16

Acetone

Concen: 79.140 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054281.D

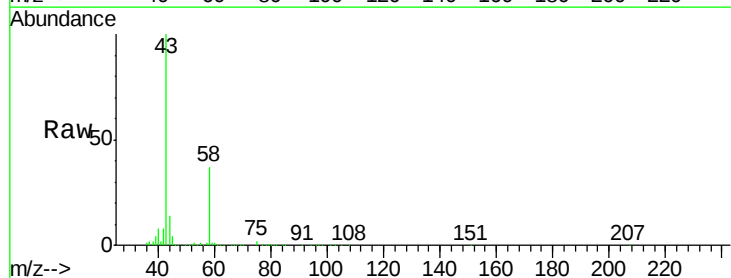
Acq: 15 Mar 2019 00:54

Tgt Ion: 43 Resp: 319359

Ion Ratio Lower Upper

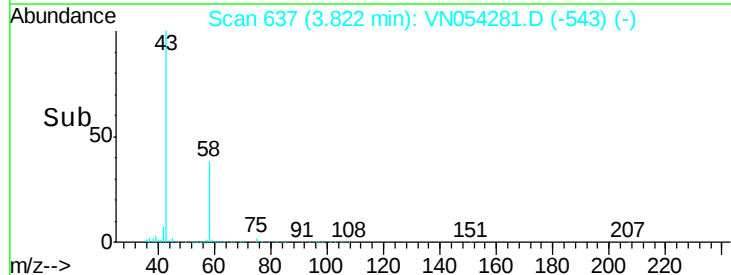
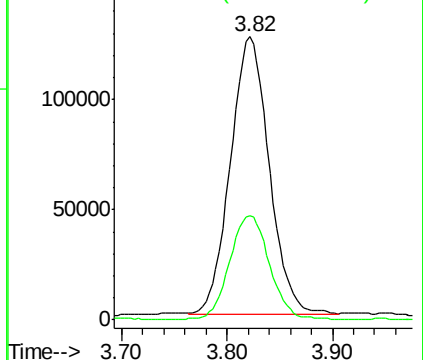
43 100

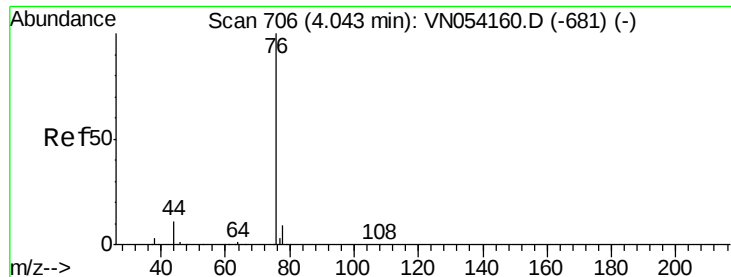
58 37.4 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

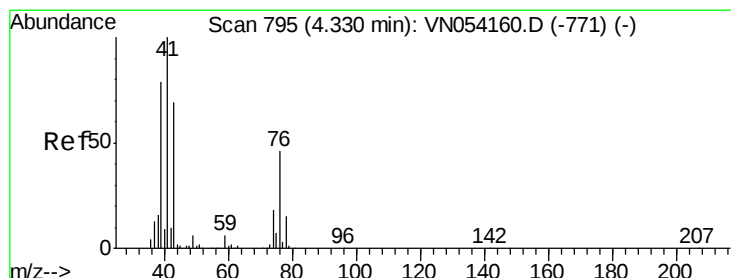
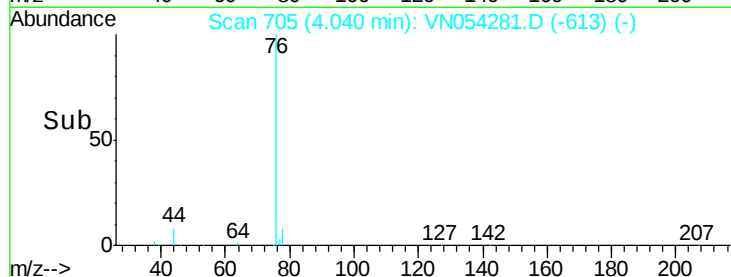
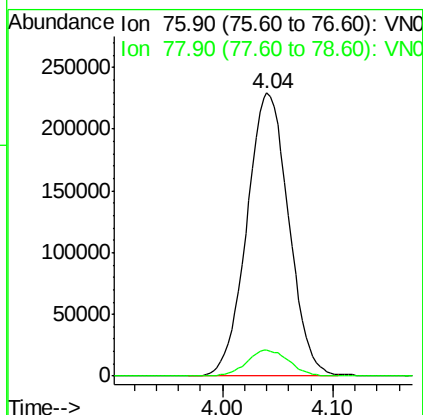
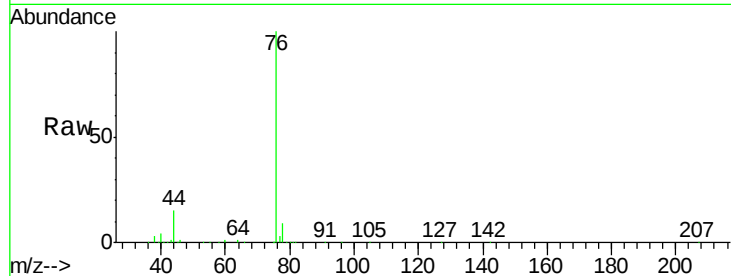




#17
Carbon Disulfide
Concen: 17.434 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

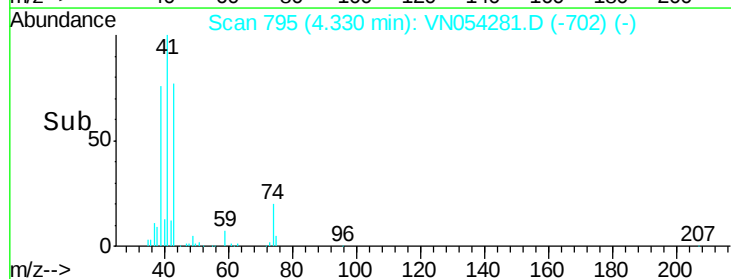
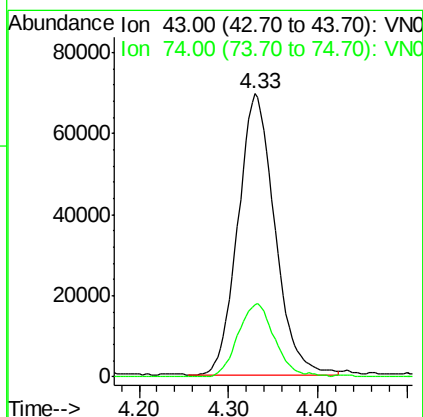
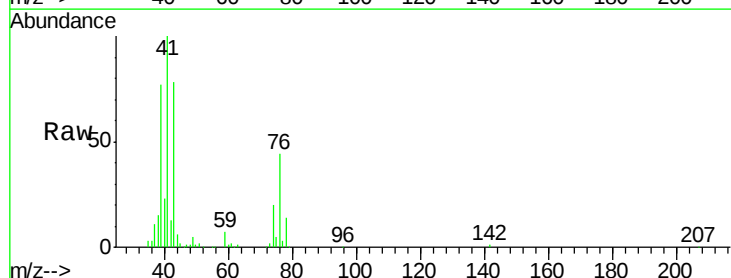
Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

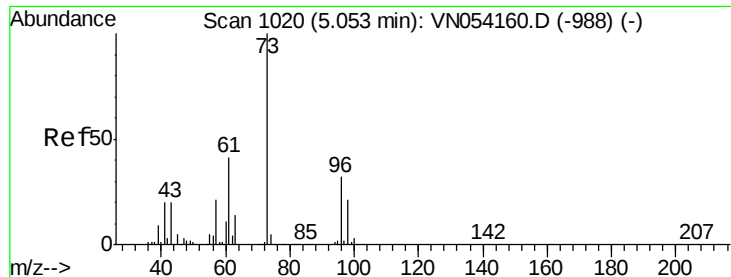
Tot Ion: 76 Resp: 602556
Ion Ratio Lower Upper
76 100
78 9.0 7.5 11.3



#18
Methyl Acetate
Concen: 24.406 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 43 Resp: 199256
Ion Ratio Lower Upper
43 100
74 26.0 20.8 31.2

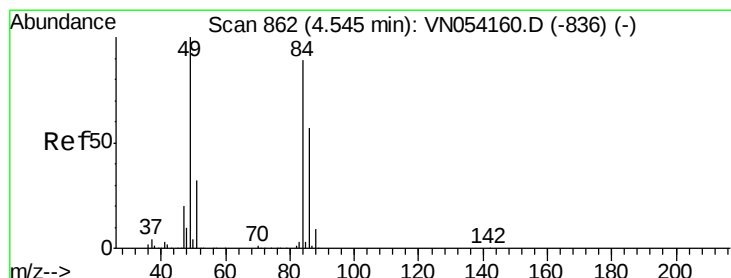
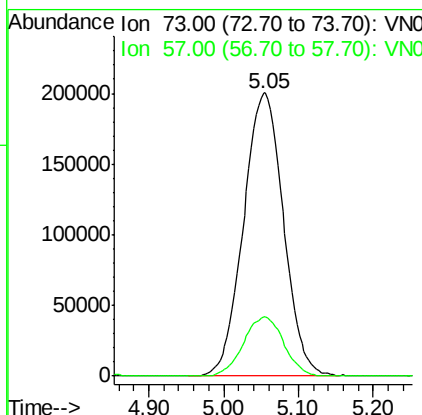
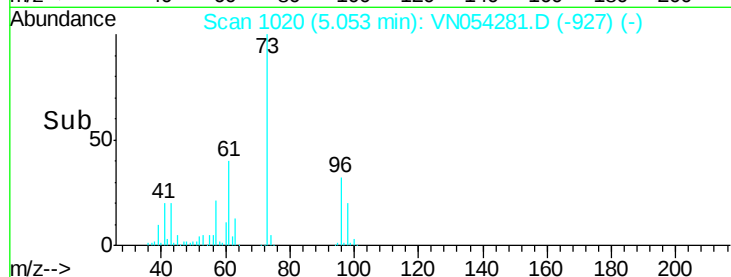
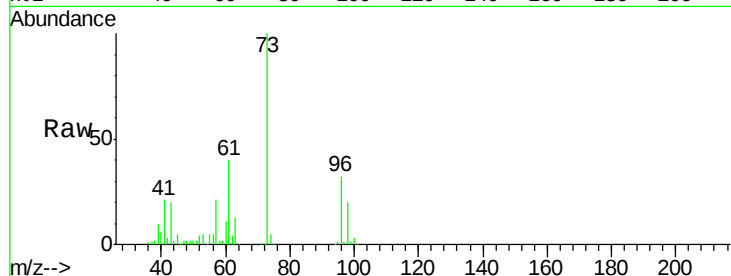




#19
Methyl tert-butyl Ether
Concen: 21.812 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

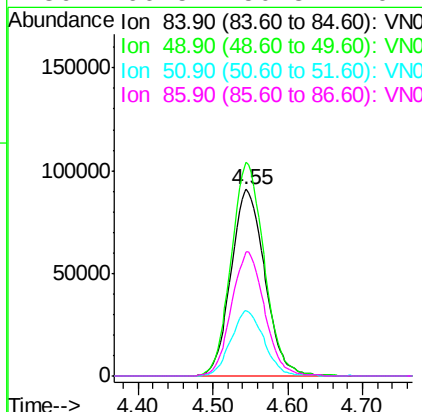
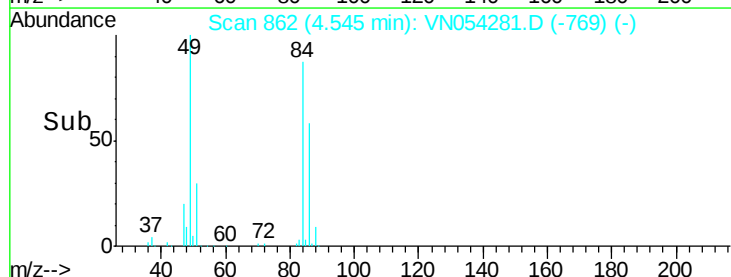
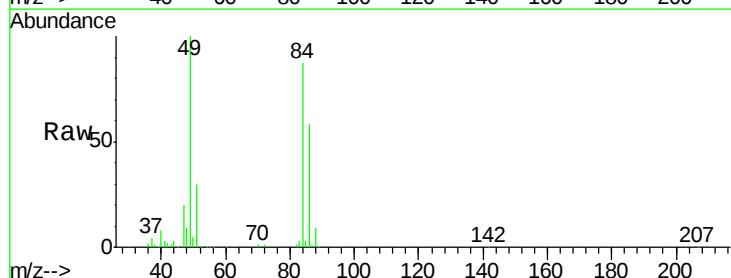
Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

Tot Ion: 73 Resp: 745410
Ion Ratio Lower Upper
73 100
57 20.9 16.8 25.2



#20
Methylene Chloride
Concen: 21.587 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 84 Resp: 286037
Ion Ratio Lower Upper
84 100
49 114.3 89.7 134.5
51 34.9 28.2 42.4
86 66.5 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.054 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

VN0314WBS02

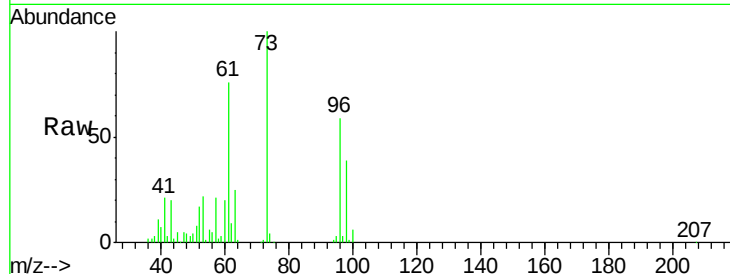
Tot Ion: 96 Resp: 278119

Ion Ratio Lower Upper

96 100

61 129.3 102.8 154.2

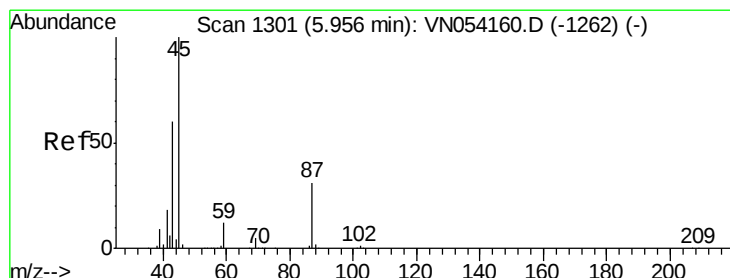
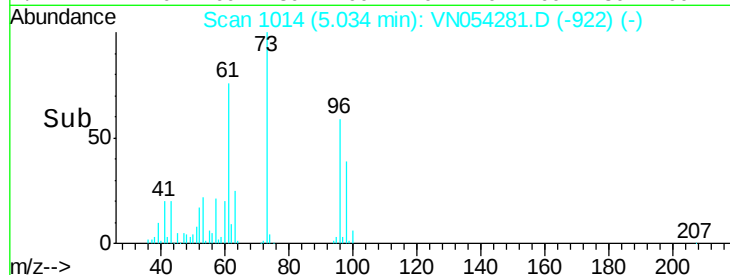
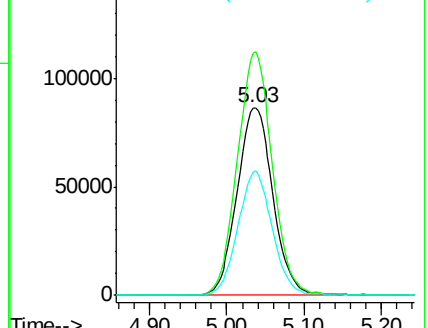
98 65.7 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.466 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Tgt Ion: 45 Resp: 757837

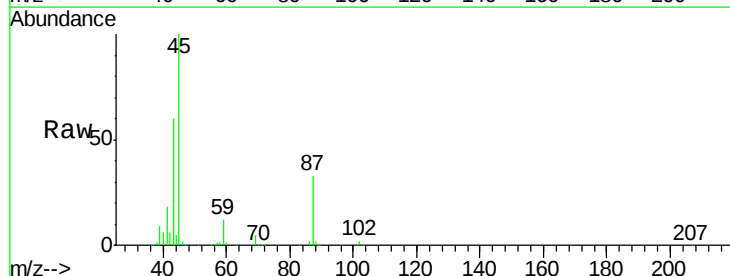
Ion Ratio Lower Upper

45 100

43 59.8 48.2 72.2

87 32.0 24.9 37.3

59 11.9 9.5 14.3

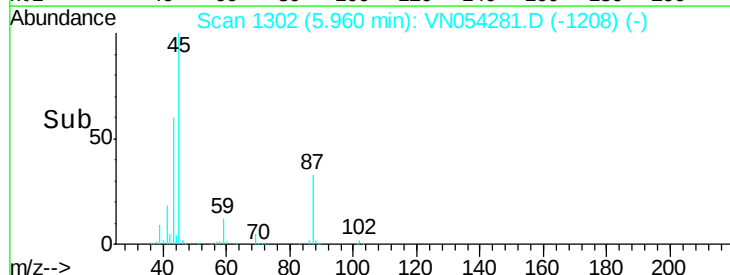
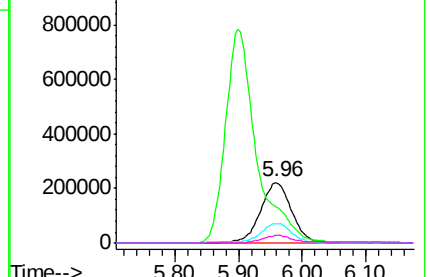


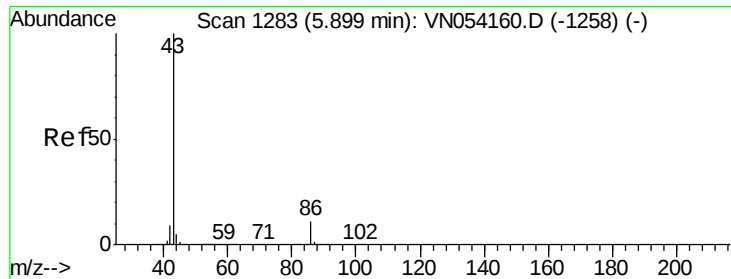
Abundance Ion 45.00 (44.70 to 45.70): VN0

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





#23

Vinyl Acetate

Concen: 101.446 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

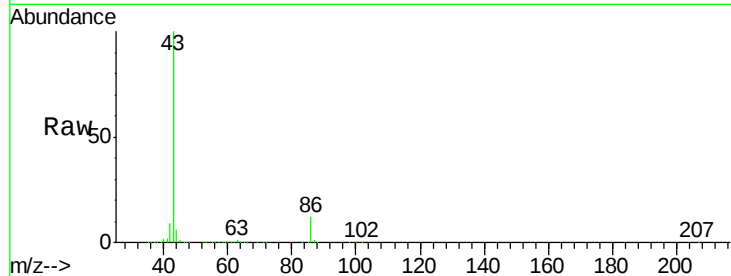
VN0314WBS02

Tot Ion: 43 Resp: 2640685

Ion Ratio Lower Upper

43 100

86 11.5 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

800000

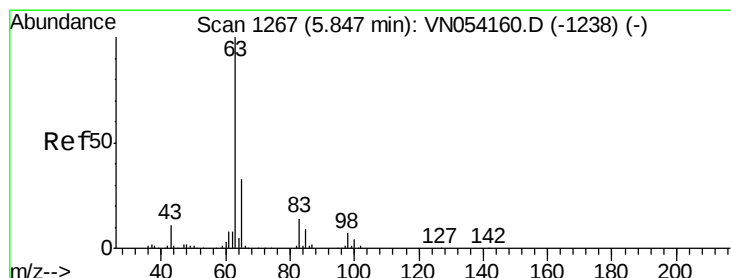
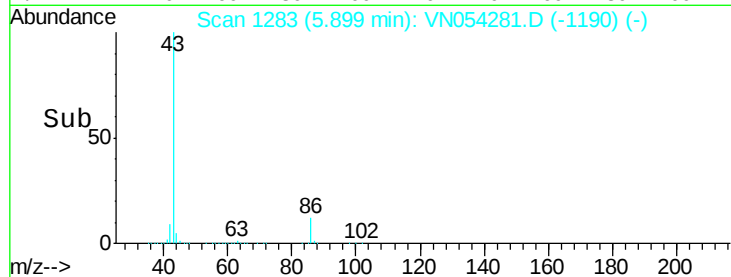
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.425 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

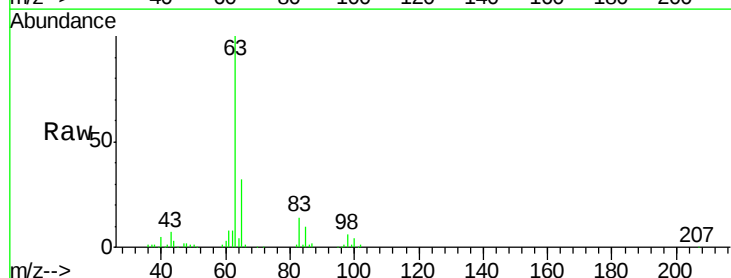
Tgt Ion: 63 Resp: 485674

Ion Ratio Lower Upper

63 100

98 6.5 3.5 10.5

100 4.3 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

200000

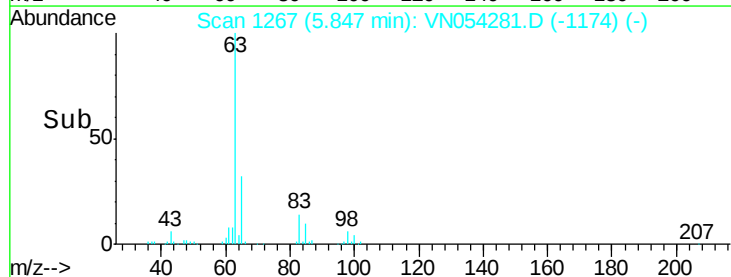
150000

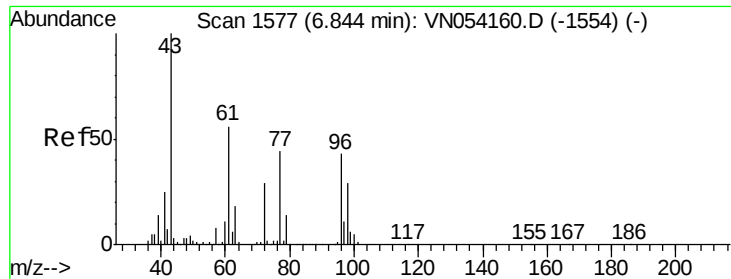
100000

50000

0

Time-->





#25

2-Butanone

Concen: 102.045 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

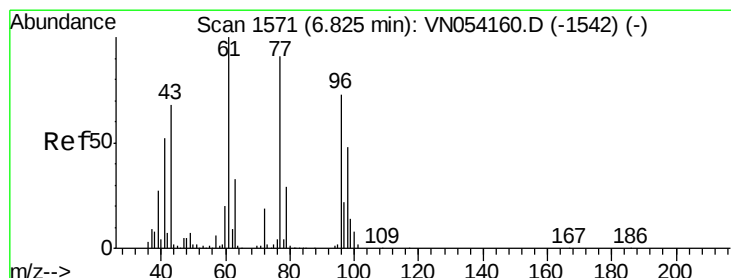
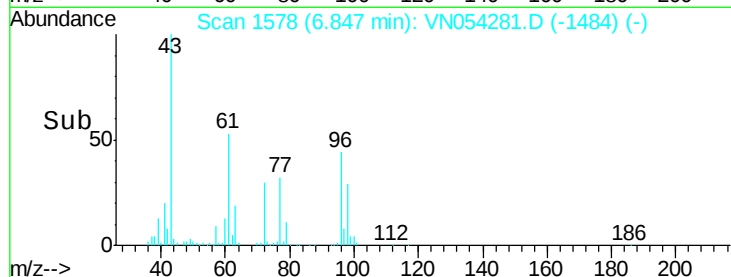
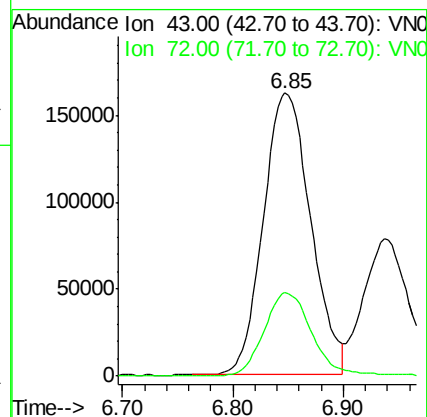
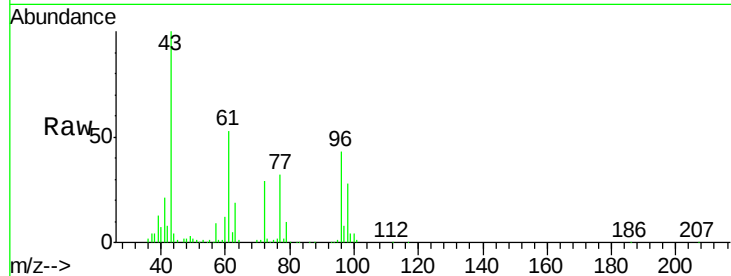
VN0314WBS02

Tot Ion: 43 Resp: 483318

Ion Ratio Lower Upper

43 100

72 29.5 23.0 34.6



#26

2,2-Dichloropropane

Concen: 14.445 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054281.D

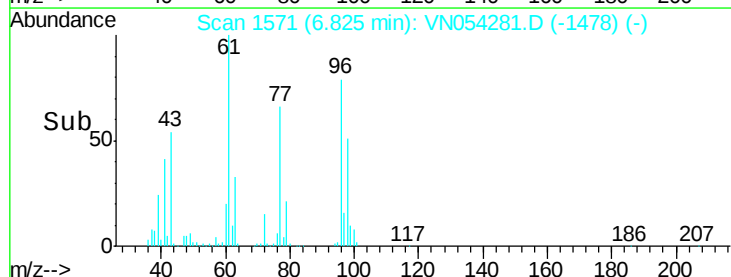
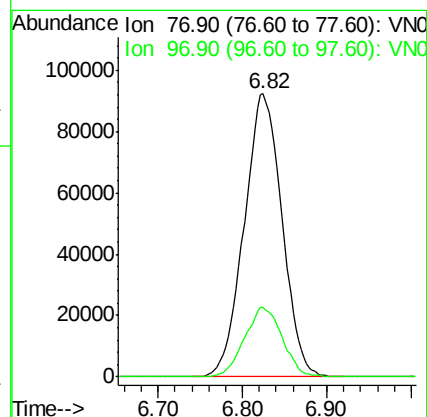
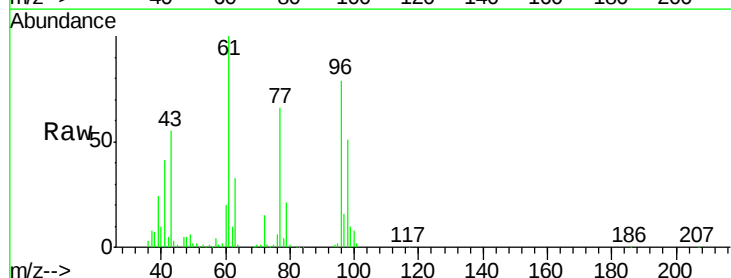
Acq: 15 Mar 2019 00:54

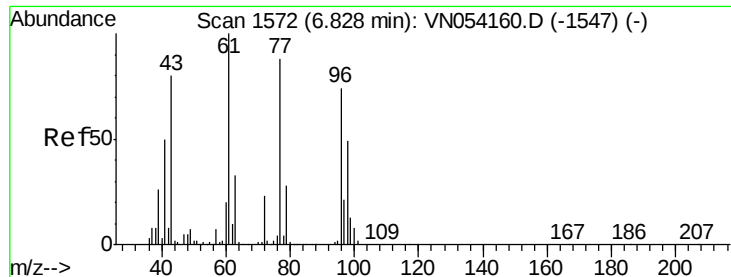
Tgt Ion: 77 Resp: 287957

Ion Ratio Lower Upper

77 100

97 24.6 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 22.233 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

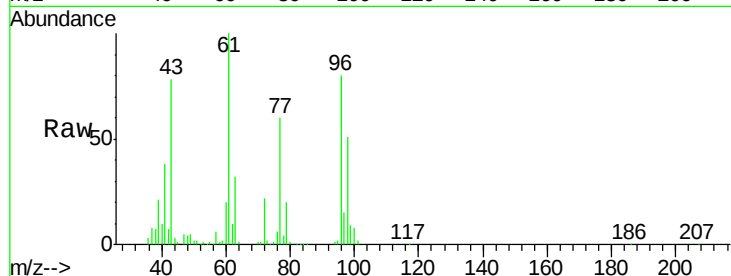
Tot Ion: 96 Resp: 327645

Ion Ratio Lower Upper

96 100

61 126.4 0.0 273.0

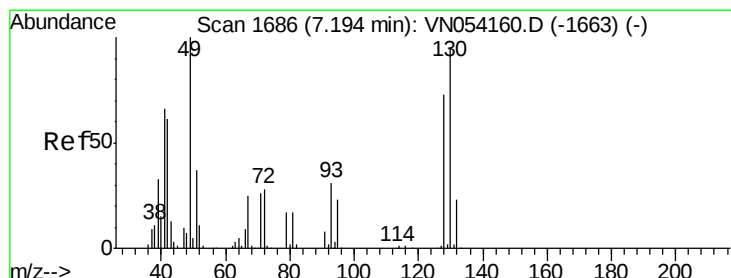
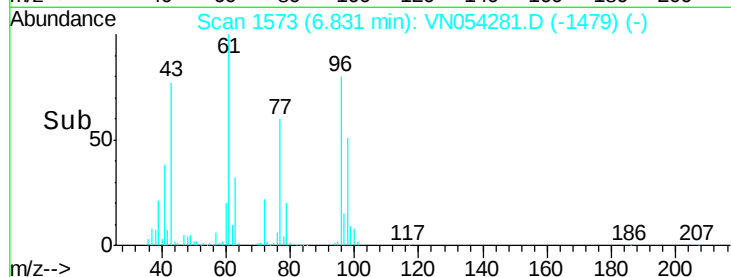
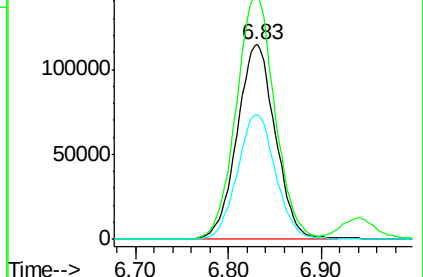
98 64.1 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN054160.D (-1547) (-)

Ion 60.90 (60.60 to 61.60): VN054160.D (-1547) (-)

Ion 97.90 (97.60 to 98.60): VN054160.D (-1547) (-)



#28

Bromochloromethane

Concen: 20.287 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

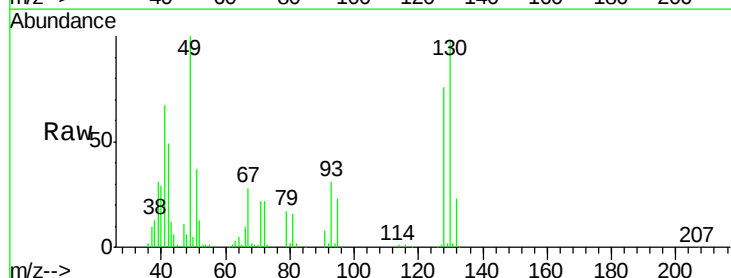
Tgt Ion: 49 Resp: 188006

Ion Ratio Lower Upper

49 100

129 1.4 0.0 4.6

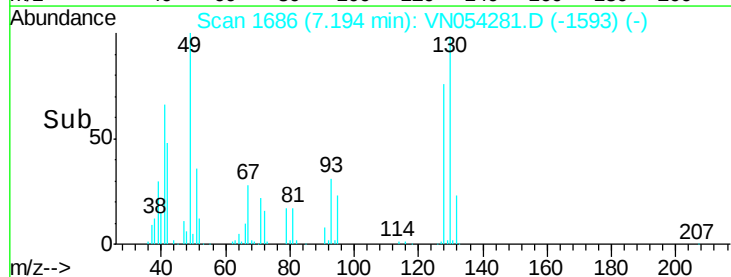
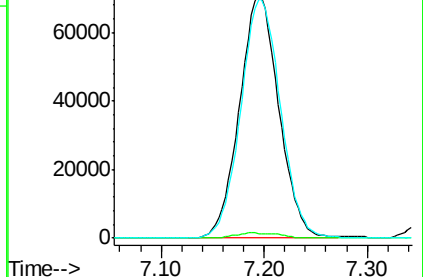
130 99.4 76.7 115.1

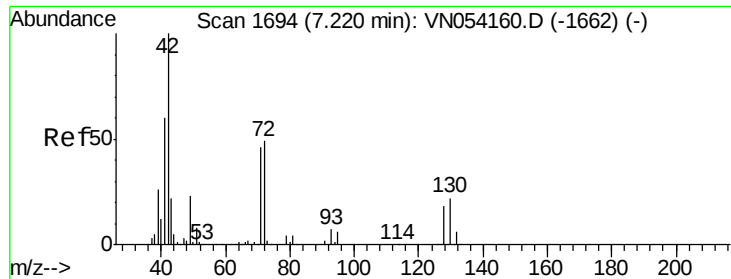


Abundance Ion 48.90 (48.60 to 49.60): VN054160.D (-1663) (-)

Ion 128.80 (128.50 to 129.50): VN054160.D (-1663) (-)

Ion 129.80 (129.50 to 130.50): VN054160.D (-1663) (-)

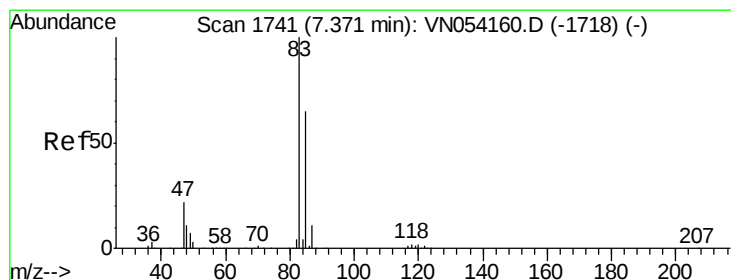
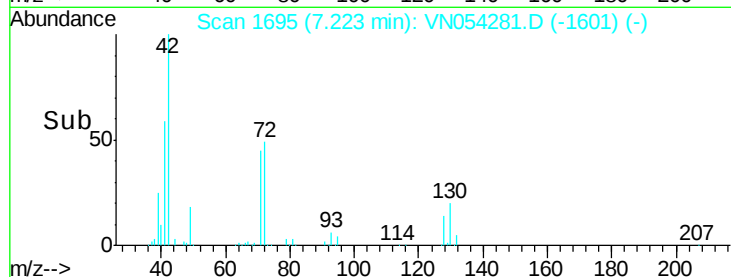
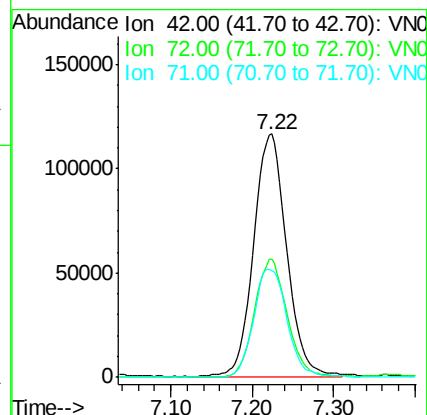
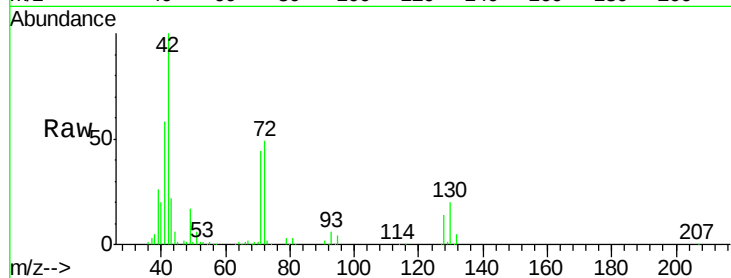




#29
Tetrahydrofuran
Concen: 106.567 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

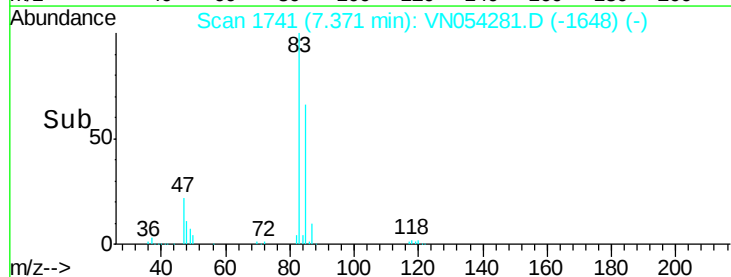
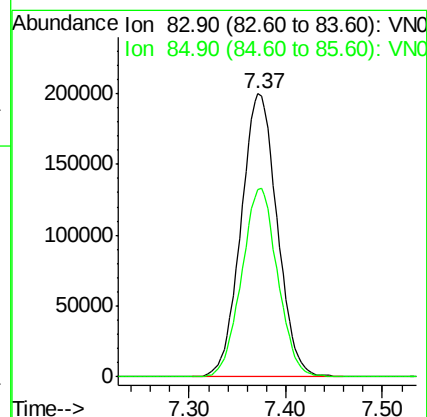
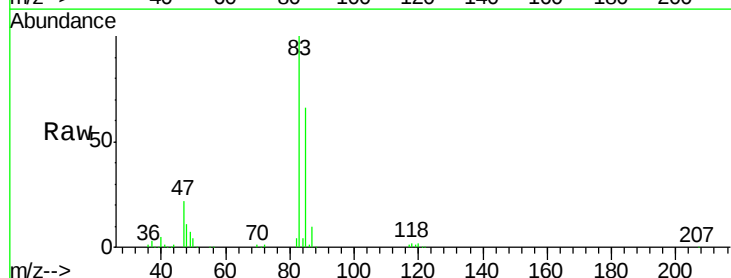
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

Tot Ion: 42 Resp: 324525
Ion Ratio Lower Upper
42 100
72 48.3 37.8 56.6
71 45.3 36.2 54.2



#30
Chloroform
Concen: 21.907 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 83 Resp: 518207
Ion Ratio Lower Upper
83 100
85 66.1 52.2 78.4

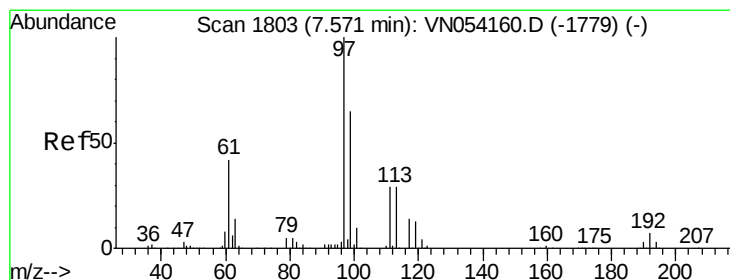
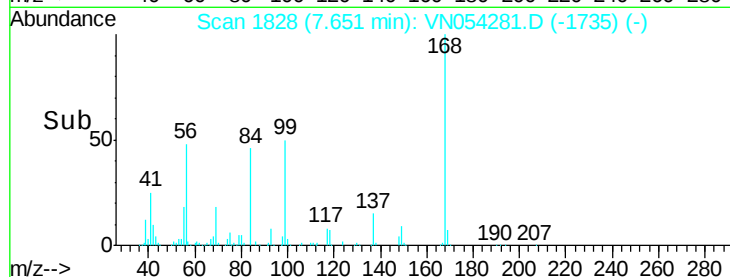
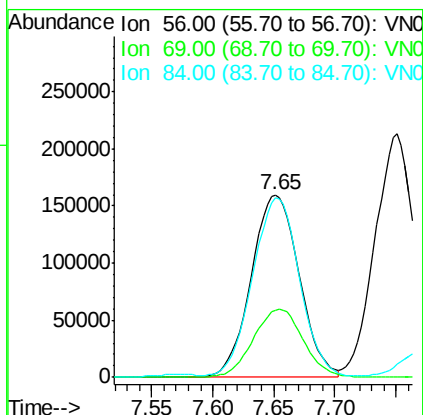
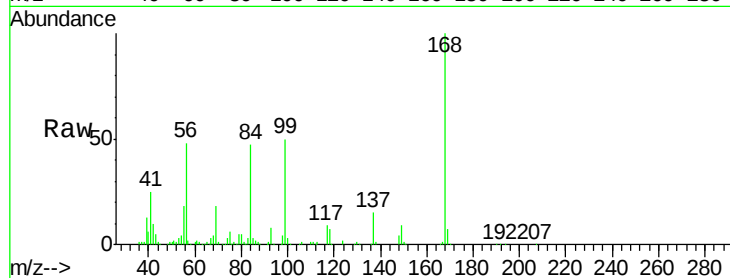




#31
Cyclohexane
Concen: 19.761 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

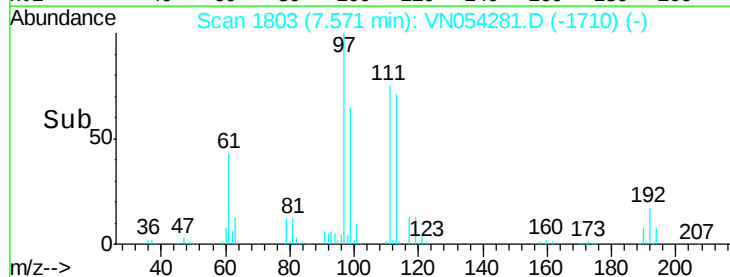
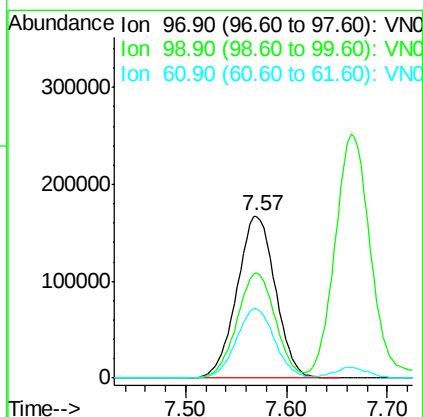
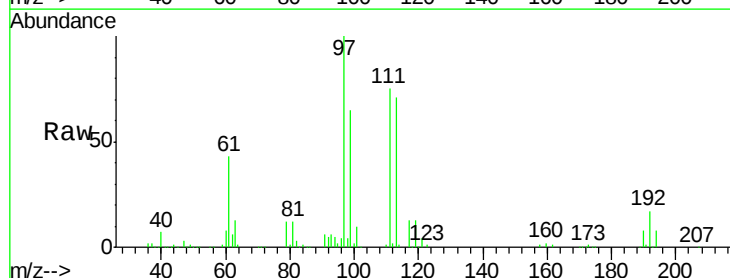
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

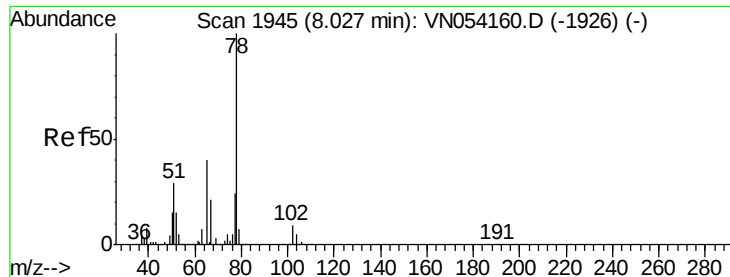
Tot Ion: 56 Resp: 434543
Ion Ratio Lower Upper
56 100
69 36.9 27.8 41.6
84 96.9 74.6 111.8



#32
1,1,1-Trichloroethane
Concen: 20.714 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 97 Resp: 442510
Ion Ratio Lower Upper
97 100
99 64.7 51.5 77.3
61 42.8 33.6 50.4

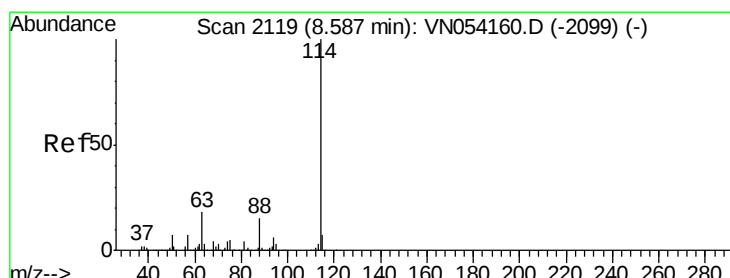
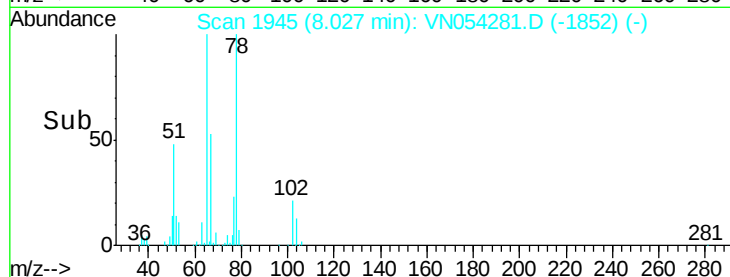
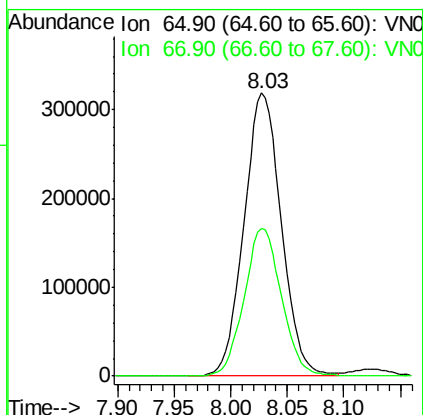
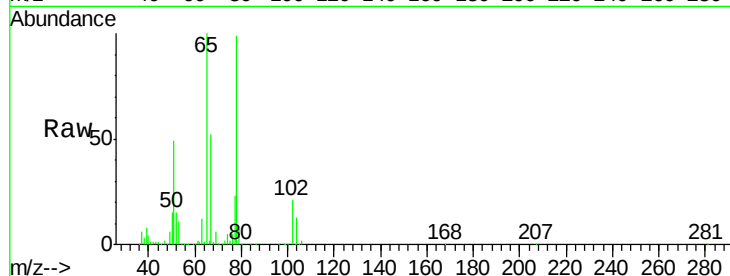




#33
 1,2-Dichloroethane-d4
 Concen: 51.916 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

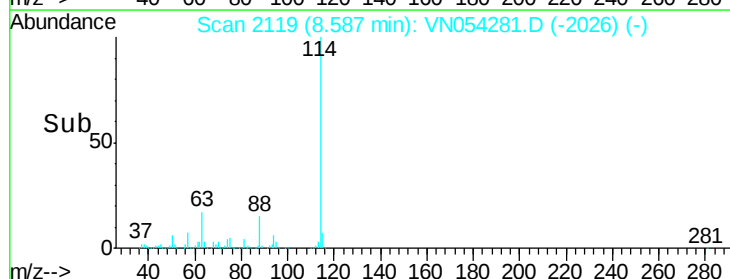
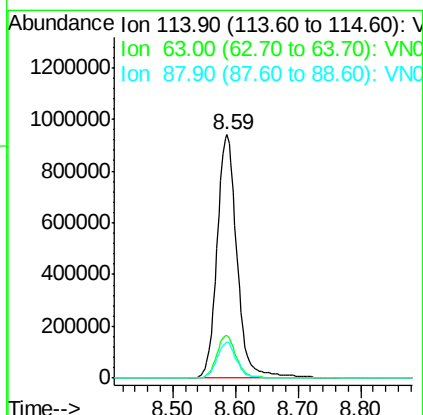
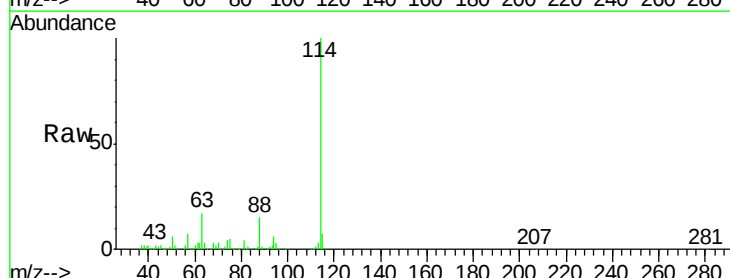
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

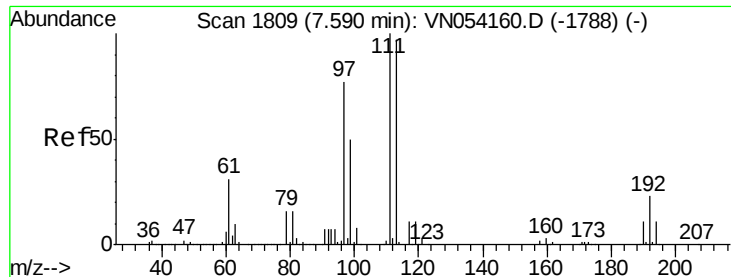
Tot Ion: 65 Resp: 731695
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion: 114 Resp: 2075162
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.2
 88 14.9 0.0 30.2

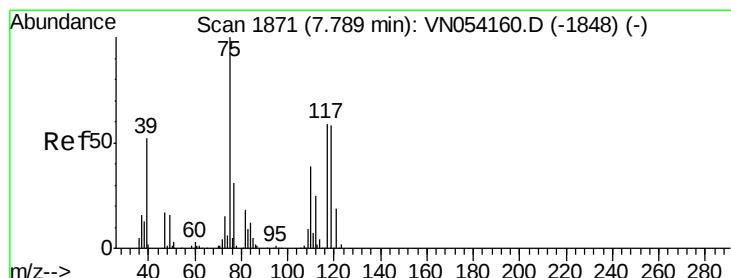
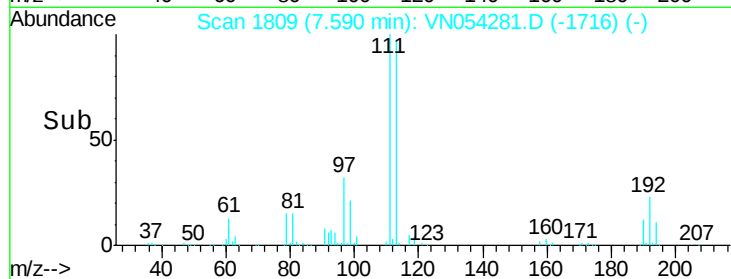
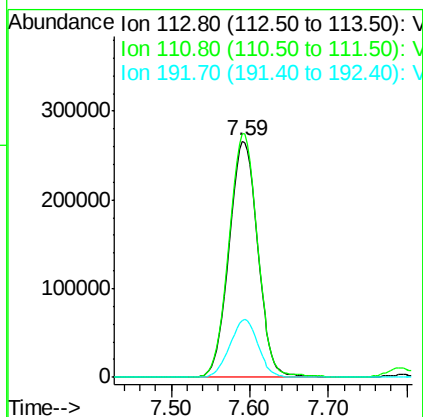
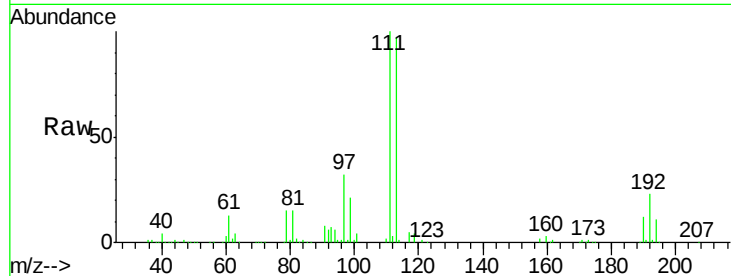




#35
 Dibromofluoromethane
 Concen: 50.416 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

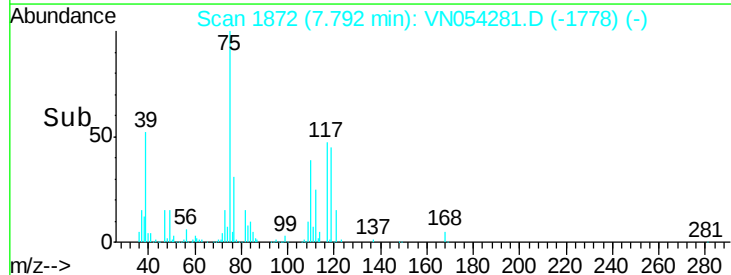
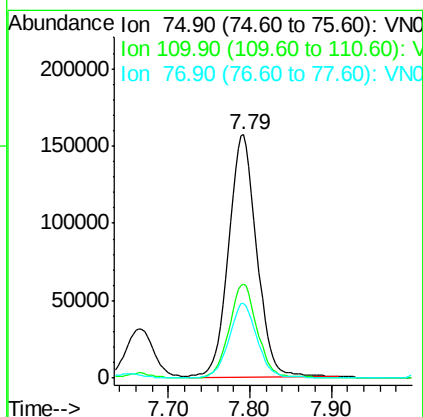
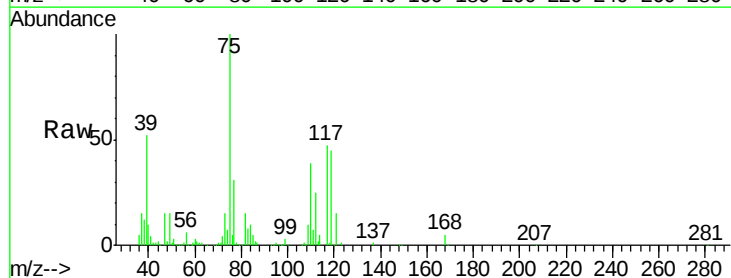
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

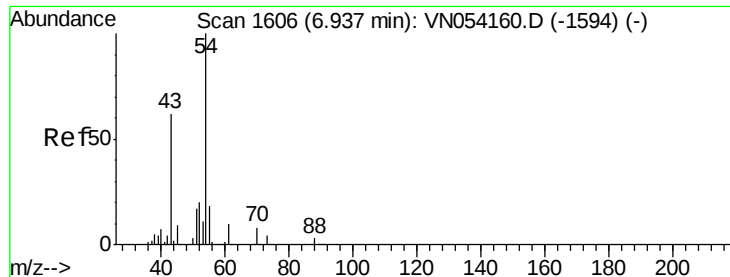
Tot Ion:113 Resp: 674764
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.2 123.4
 192 24.1 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 19.820 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion: 75 Resp: 378764
 Ion Ratio Lower Upper
 75 100
 110 39.0 19.1 57.5
 77 31.2 25.0 37.4

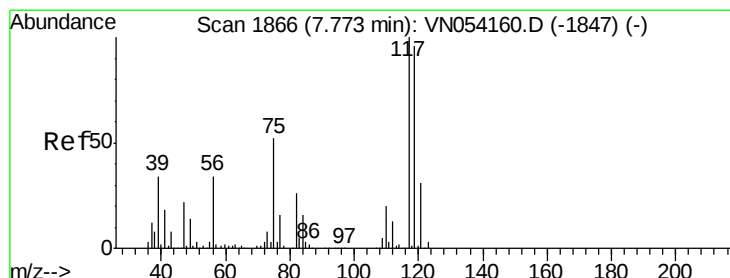
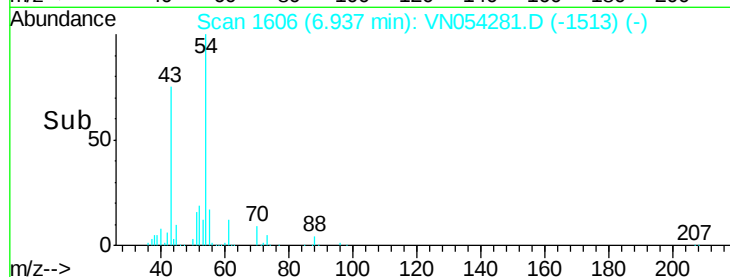
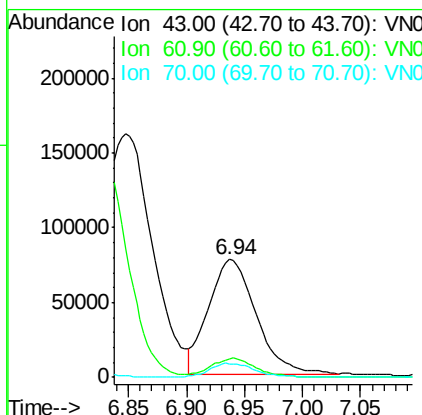
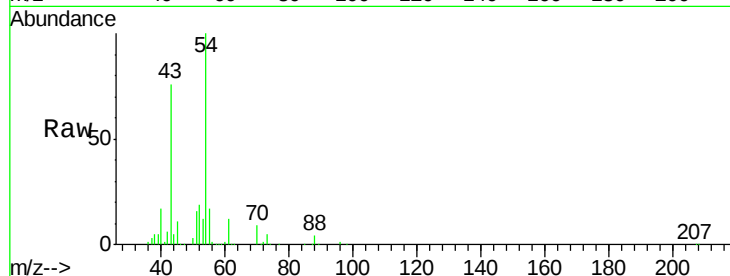




#37
Ethyl Acetate
Concen: 20.076 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

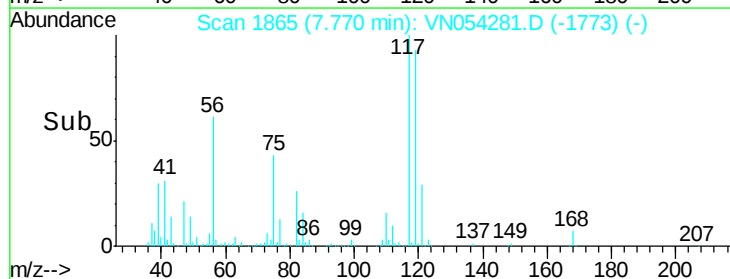
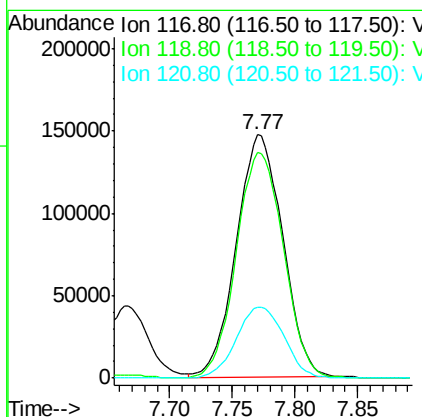
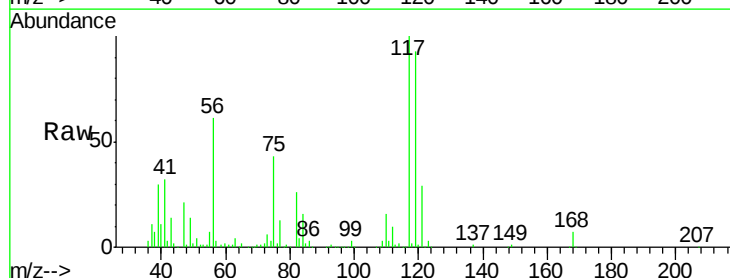
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

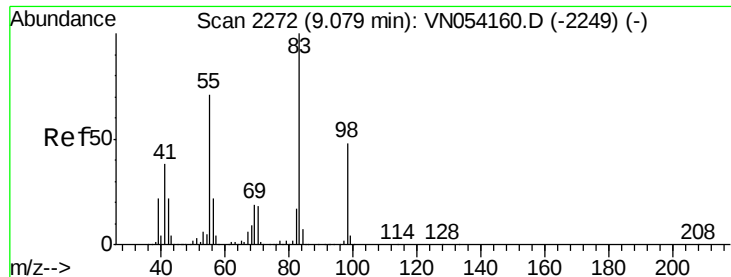
Tot Ion: 43 Resp: 220446
Ion Ratio Lower Upper
43 100
61 14.5 11.8 17.6
70 11.3 8.4 12.6



#38
Carbon Tetrachloride
Concen: 18.850 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 117 Resp: 377774
Ion Ratio Lower Upper
117 100
119 92.8 76.3 114.5
121 29.2 24.6 36.8

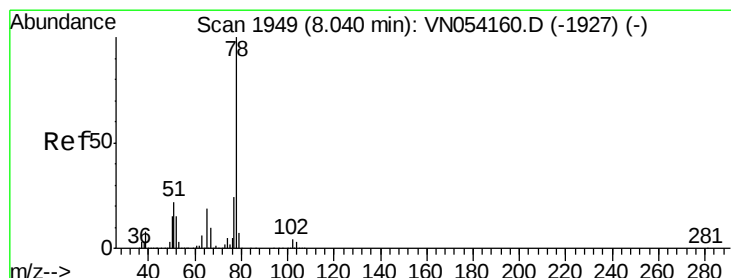
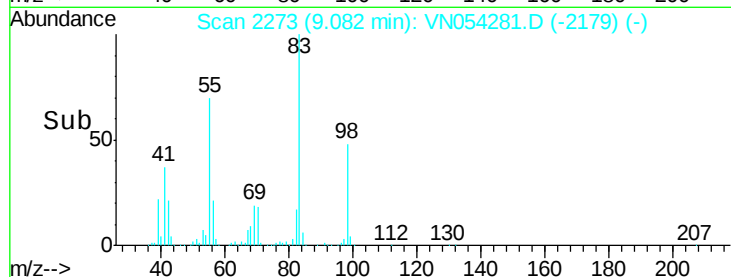
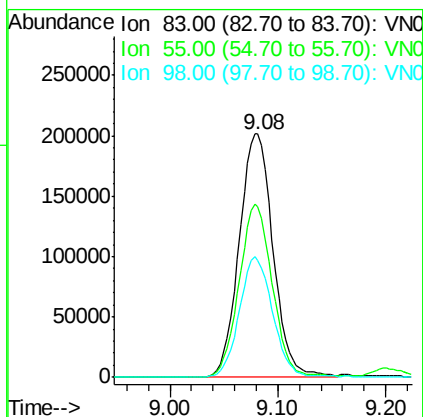
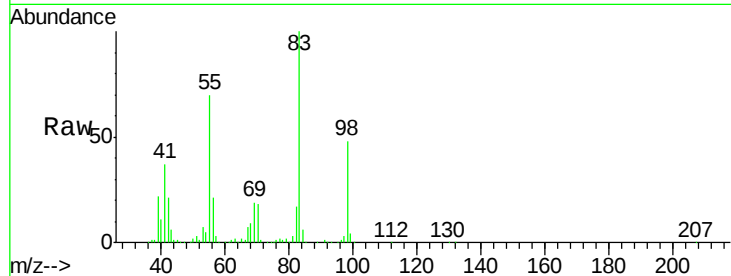




#39
Methvlcvclohexane
Concen: 18.783 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

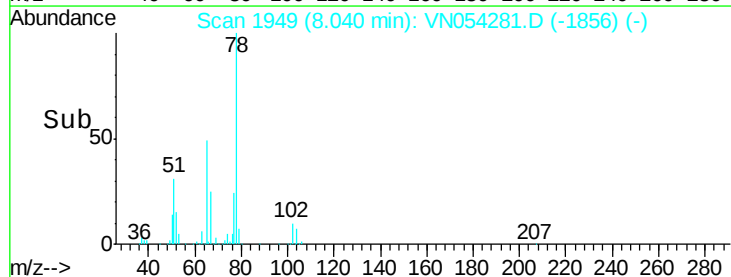
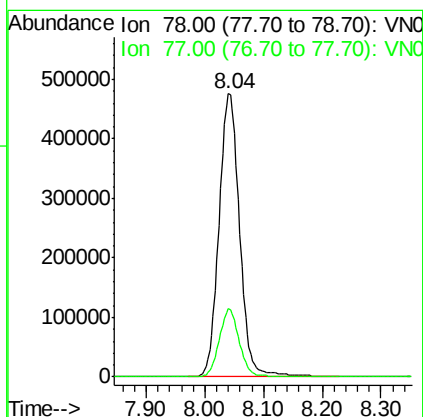
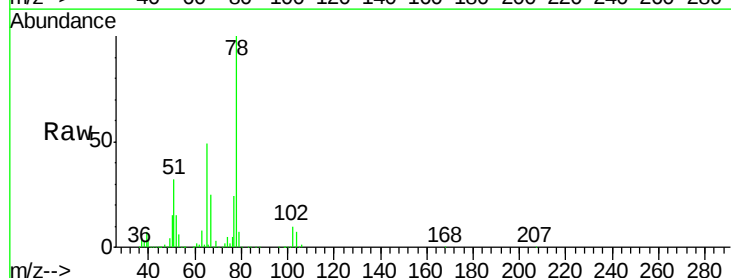
Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

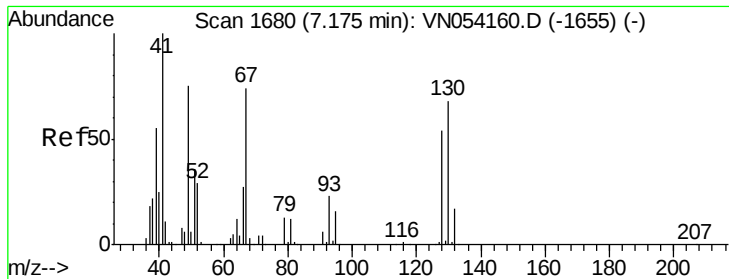
Tot Ion: 83 Resp: 441650
Ion Ratio Lower Upper
83 100
55 70.3 56.6 84.8
98 48.0 38.4 57.6



#40
Benzene
Concen: 21.061 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 78 Resp: 1151748
Ion Ratio Lower Upper
78 100
77 24.0 19.1 28.7

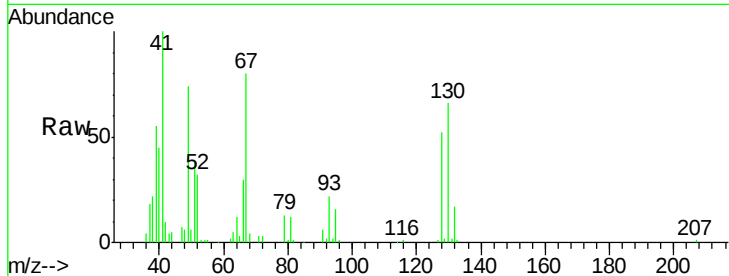




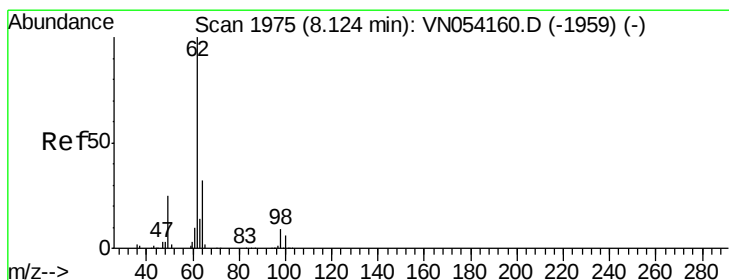
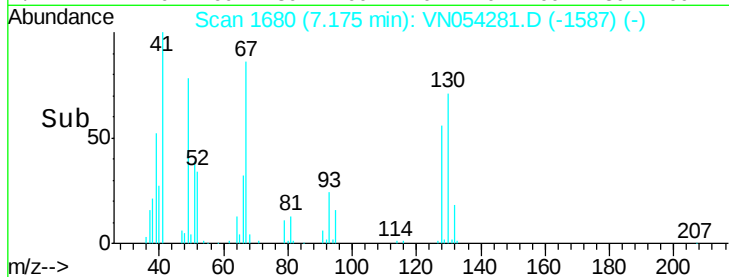
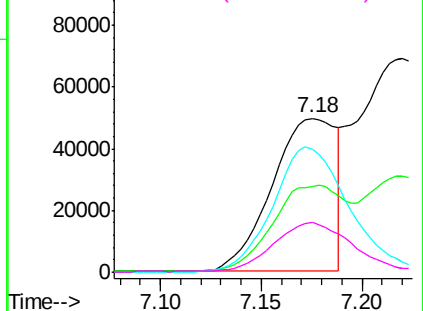
#41
Methacrylonitrile
Concen: 17.501 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

Tot Ion:	41	Resp:	109725
Ion	Ratio	Lower	Upper
41	100		
39	62.7	46.8	70.2
67	98.9	67.0	100.4
52	39.3	26.5	39.7

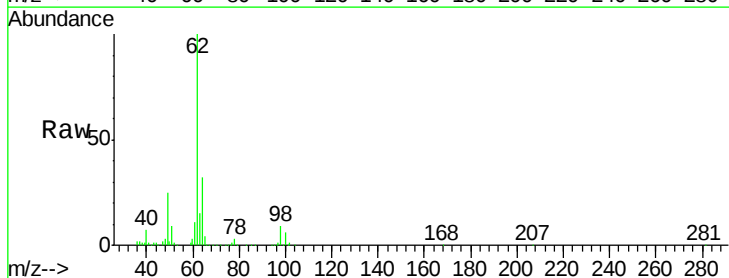


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

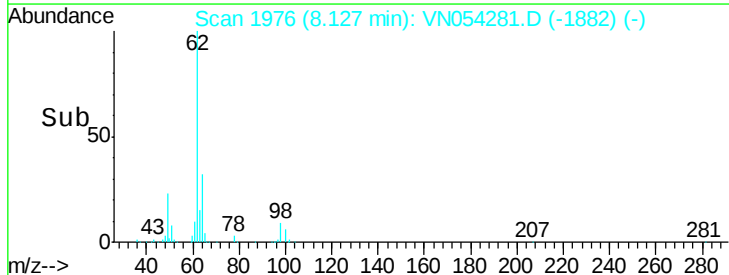
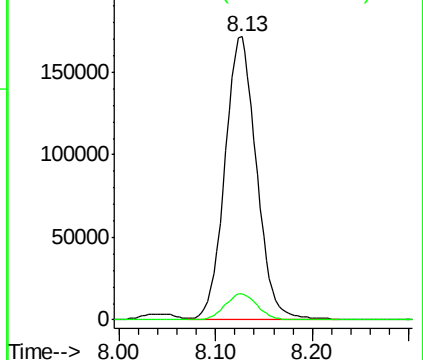


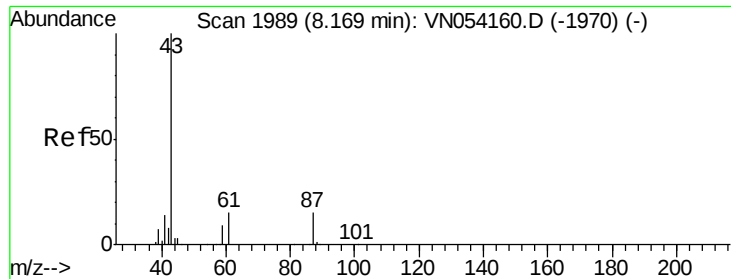
#42
1,2-Dichloroethane
Concen: 21.025 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion:	62	Resp:	388186
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.4



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 19.371 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

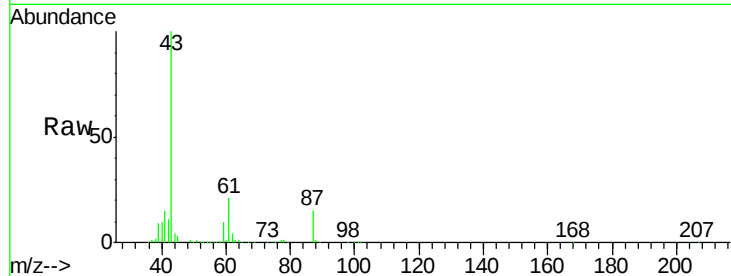
Tot Ion: 43 Resp: 373360

Ion Ratio Lower Upper

43 100

61 19.7 15.8 23.8

87 15.3 12.0 18.0

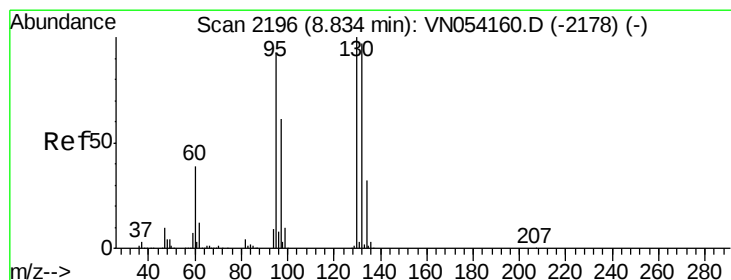
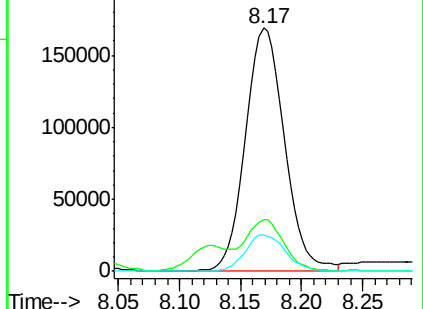
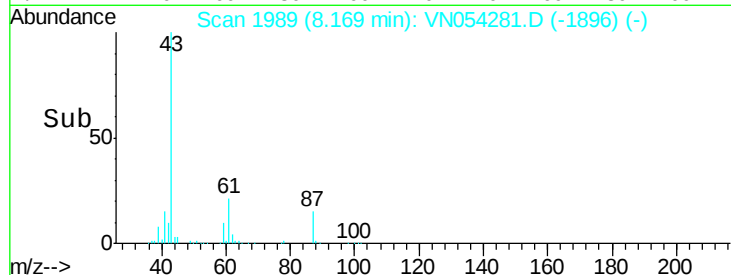


Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN054160.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN054160.D (-1970) (-)

Time-->



#44

Trichloroethene

Concen: 20.613 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054281.D

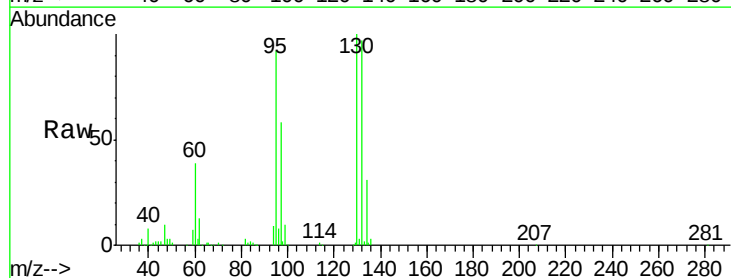
Acq: 15 Mar 2019 00:54

Tgt Ion:130 Resp: 350174

Ion Ratio Lower Upper

130 100

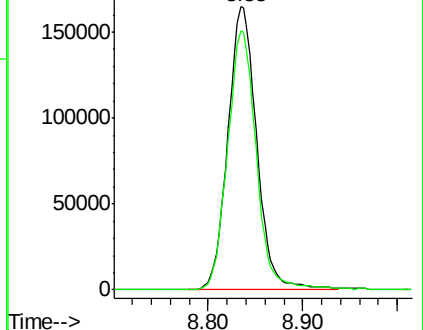
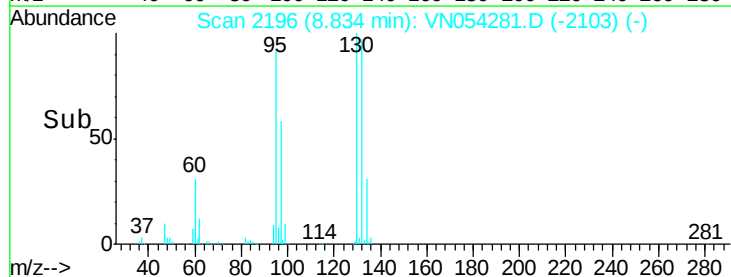
95 91.6 0.0 185.2

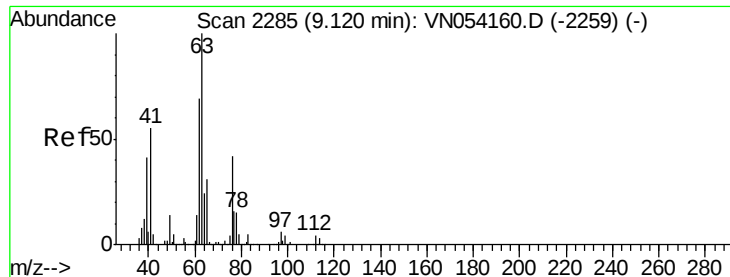


Abundance Ion 129.80 (129.50 to 130.50): VN054160.D (-2178) (-)

Ion 94.90 (94.60 to 95.60): VN054160.D (-2178) (-)

Time-->





#45

1,2-Dichloropropane

Concen: 21.235 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

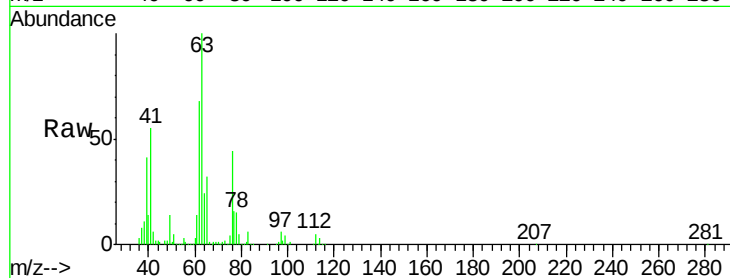
VN0314WBS02

Tot Ion: 63 Resp: 288354

Ion Ratio Lower Upper

63 100

65 32.5 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

150000

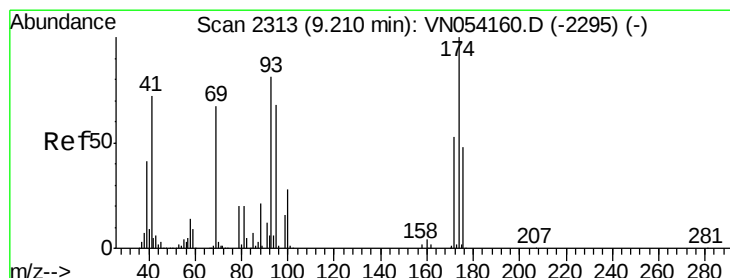
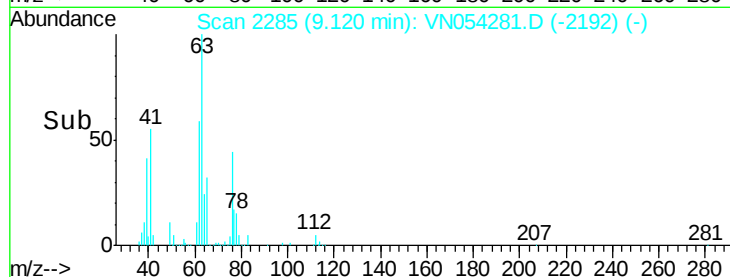
100000

50000

0

Time-->

9.00 9.10 9.20 9.30



#46

Dibromomethane

Concen: 20.662 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

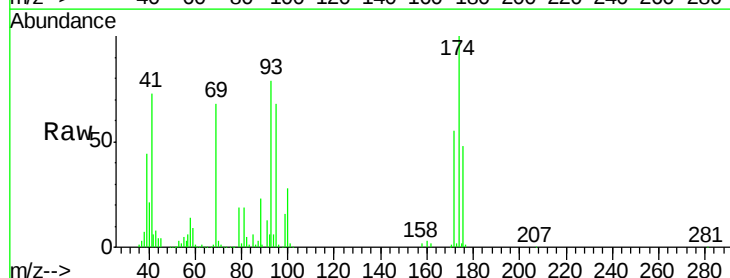
Tgt Ion: 93 Resp: 189568

Ion Ratio Lower Upper

93 100

95 84.9 66.7 100.1

174 126.5 98.5 147.7



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

150000

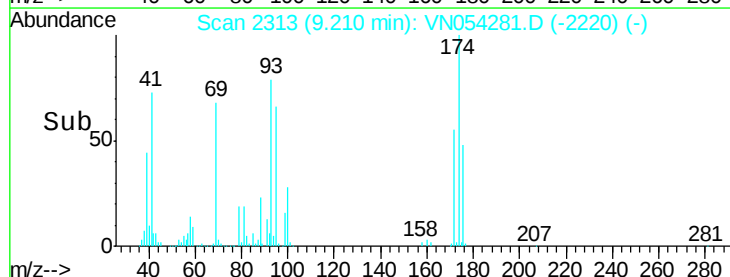
100000

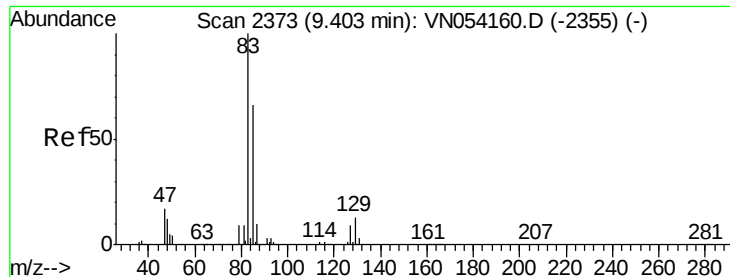
50000

0

Time-->

9.10 9.20 9.30





#47

Bromodichloromethane

Concen: 20.401 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

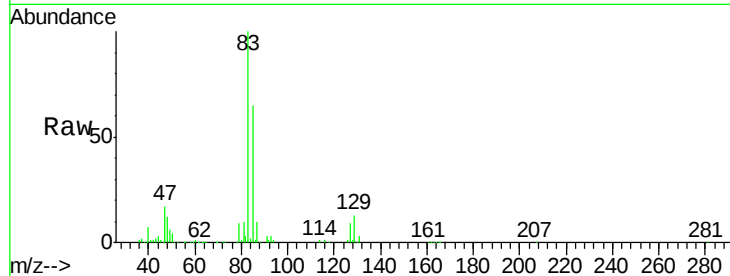
Tot Ion: 83 Resp: 375239

Ion Ratio Lower Upper

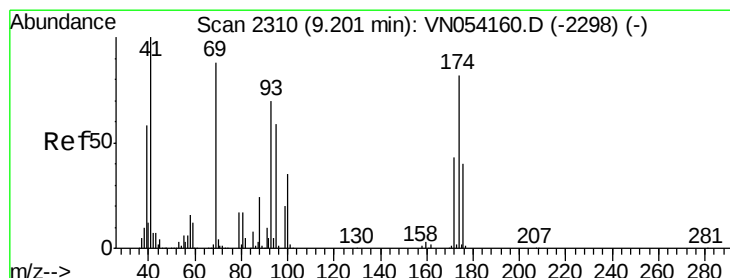
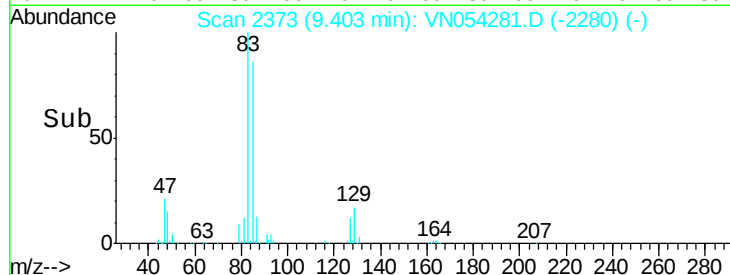
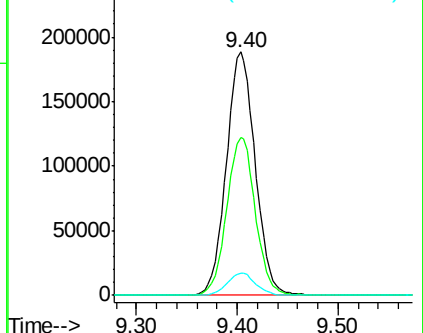
83 100

85 65.1 52.8 79.2

127 9.1 7.4 11.2



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.315 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

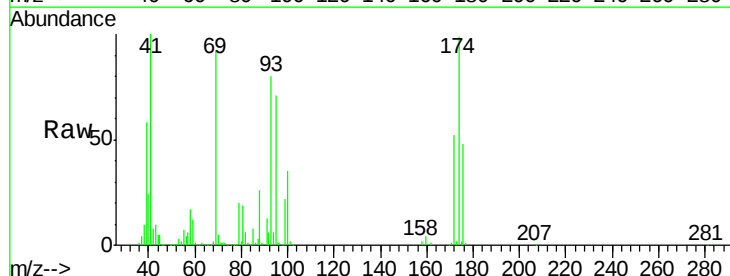
Tgt Ion: 41 Resp: 188926

Ion Ratio Lower Upper

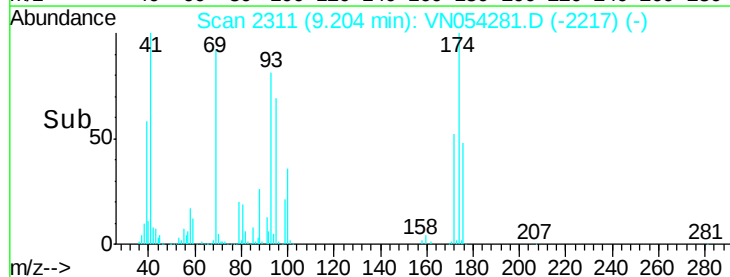
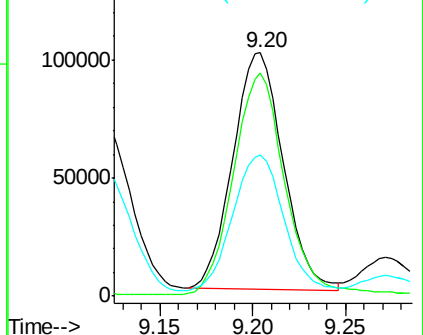
41 100

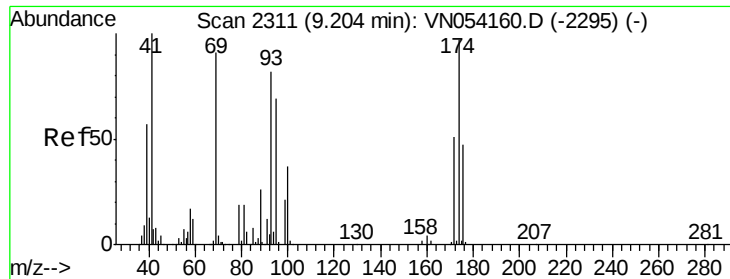
69 96.3 72.6 108.8

39 63.2 47.5 71.3



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





#49

1,4-Dioxane

Concen: 424.835 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

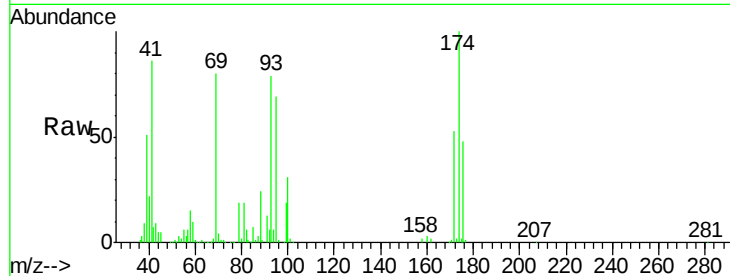
Tot Ion: 88 Resp: 58778

Ion Ratio Lower Upper

88 100

43 29.5 24.1 36.1

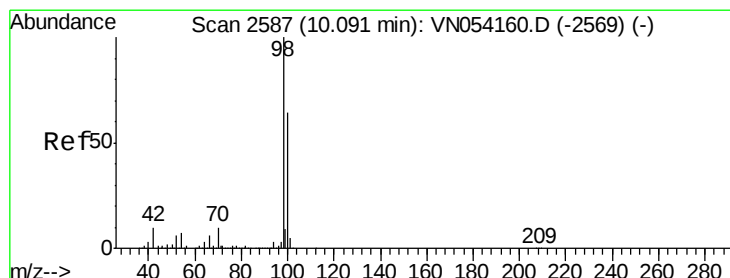
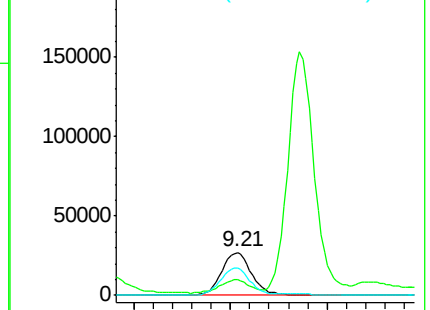
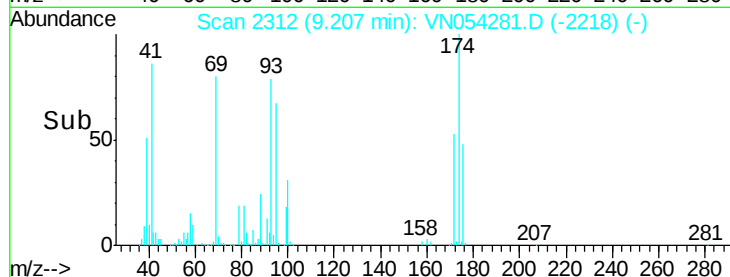
58 62.7 50.8 76.2



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.658 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054281.D

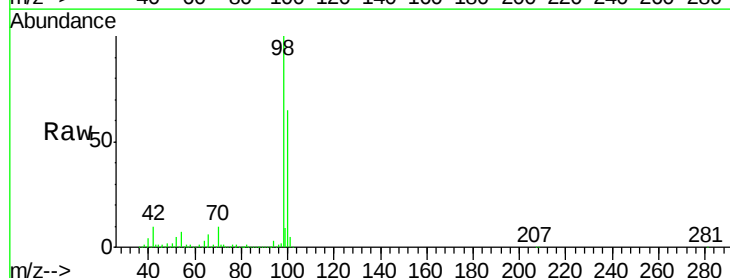
Acq: 15 Mar 2019 00:54

Tgt Ion: 98 Resp: 2405092

Ion Ratio Lower Upper

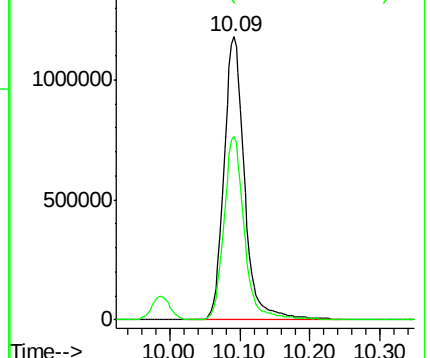
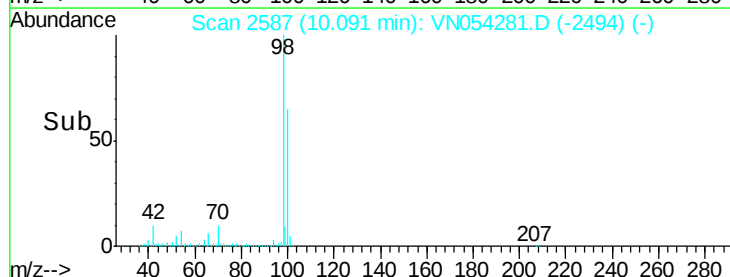
98 100

100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 103.093 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

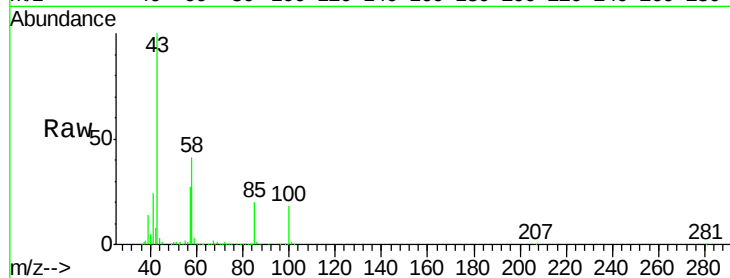
VN0314WBS02

Tot Ion: 43 Resp: 1051542

Ion Ratio Lower Upper

43 100

58 39.7 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

600000

500000

400000

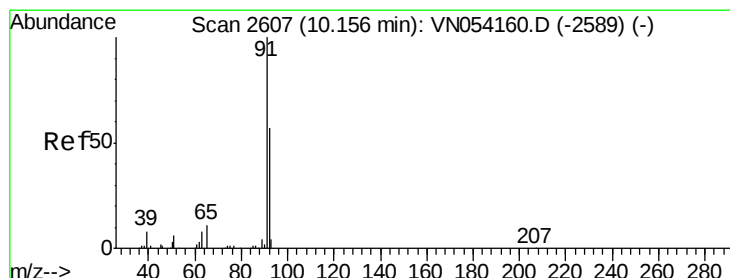
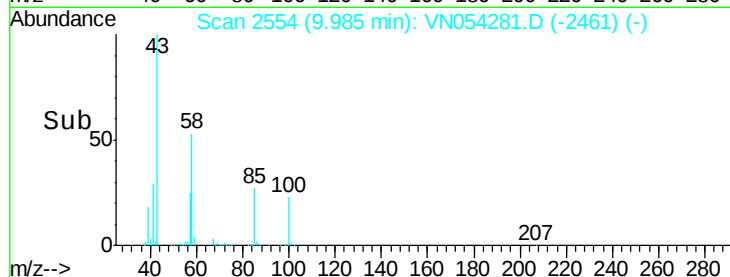
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.719 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054281.D

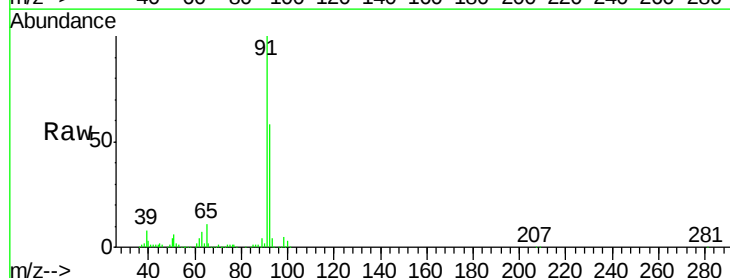
Acq: 15 Mar 2019 00:54

Tgt Ion: 92 Resp: 718430

Ion Ratio Lower Upper

92 100

91 174.6 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

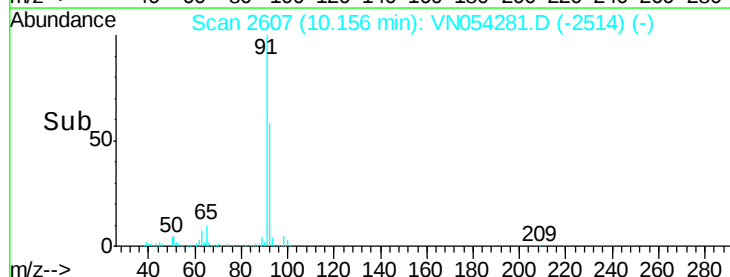
600000

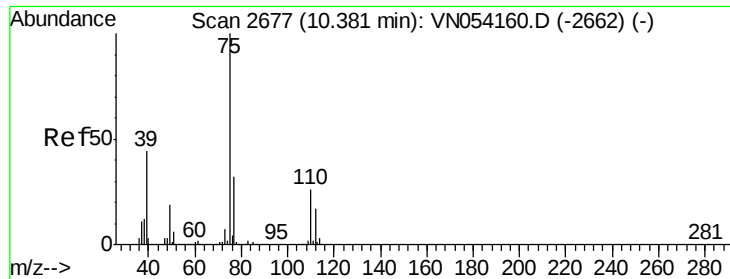
400000

200000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 16.557 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

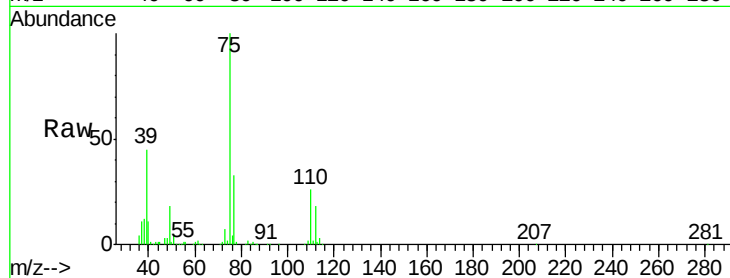
VN0314WBS02

Tot Ion: 75 Resp: 319222

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

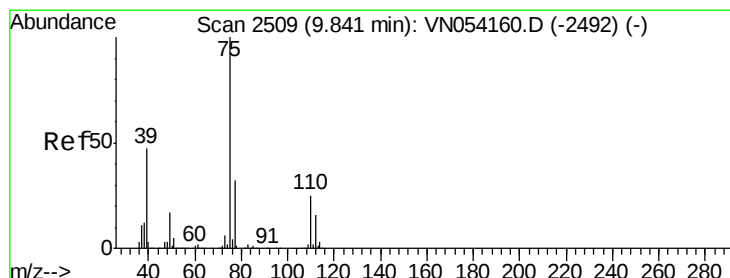
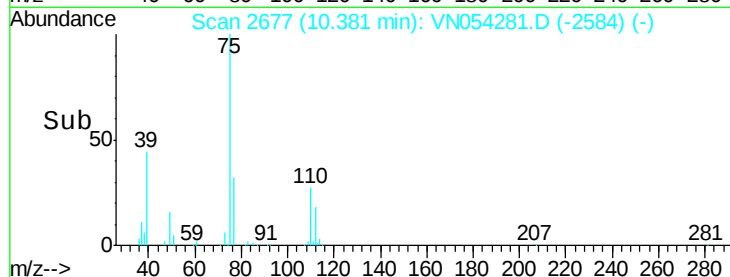
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 18.446 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

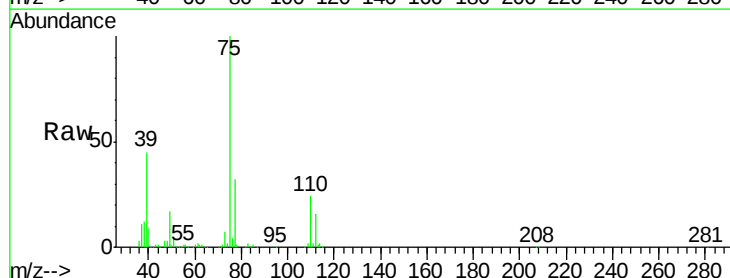
Tgt Ion: 75 Resp: 395363

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0

39 44.9 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

250000

200000

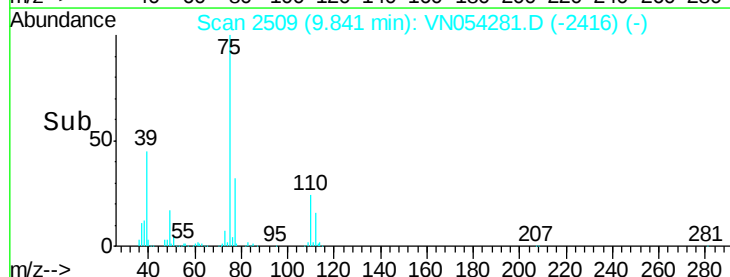
150000

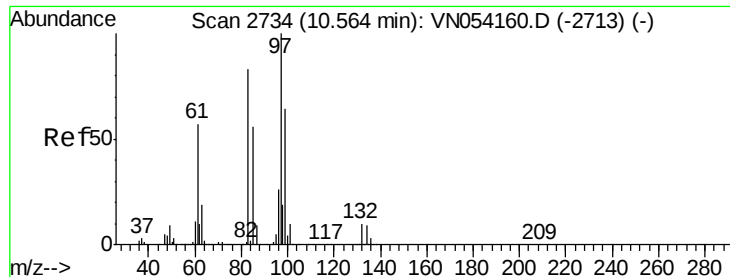
100000

50000

0

Time-->

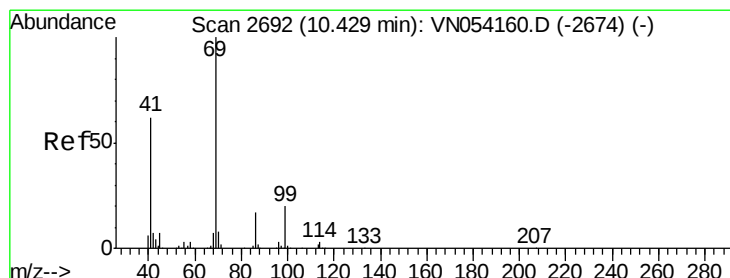
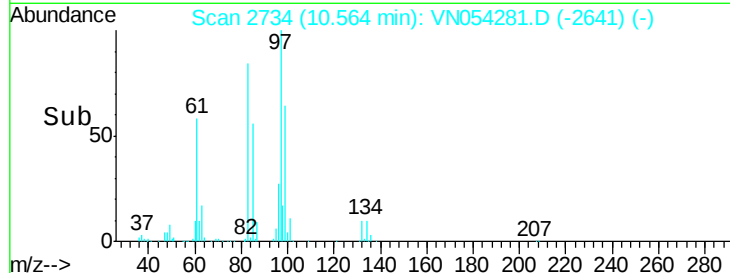
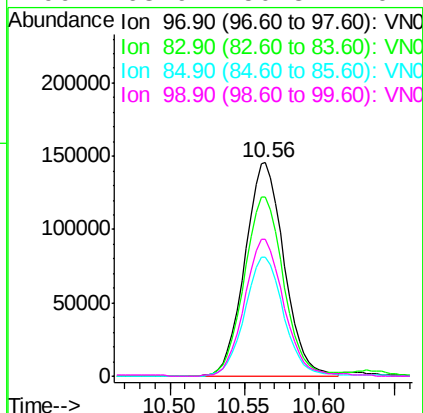
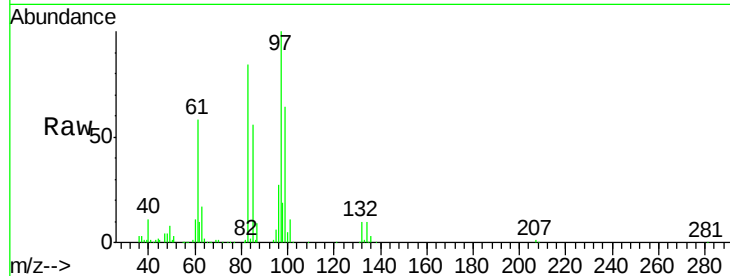




#55
 1,1,2-Trichloroethane
 Concen: 20.968 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

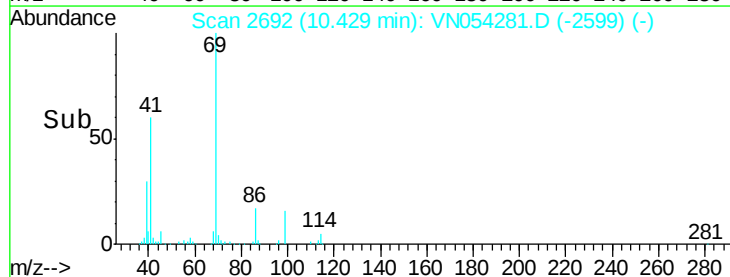
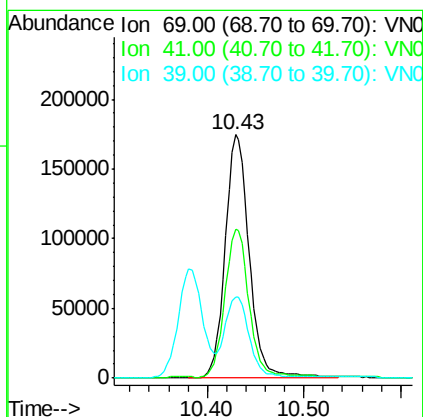
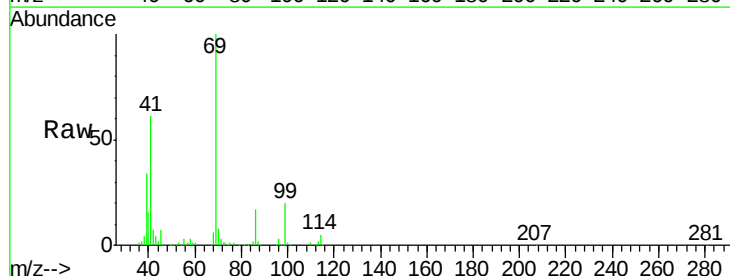
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

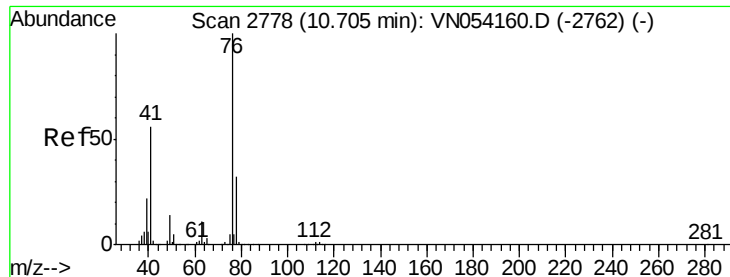
Tot Ion: 97 Resp: 265472
 Ion Ratio Lower Upper
 97 100
 83 83.9 66.6 100.0
 85 55.7 44.4 66.6
 99 63.9 50.8 76.2



#56
 Ethyl methacrylate
 Concen: 20.053 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion: 69 Resp: 302729
 Ion Ratio Lower Upper
 69 100
 41 61.2 49.4 74.2
 39 34.1 28.3 42.5





#57

1,3-Dichloropropane

Concen: 20.976 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

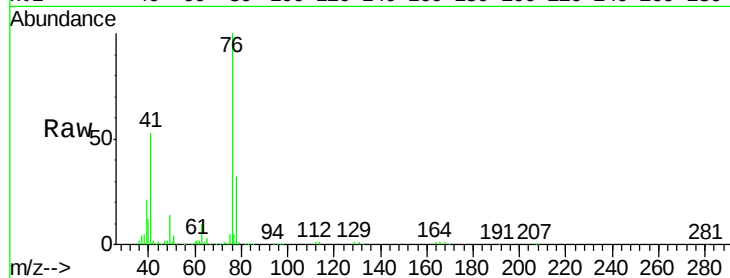
VN0314WBS02

Tot Ion: 76 Resp: 434266

Ion Ratio Lower Upper

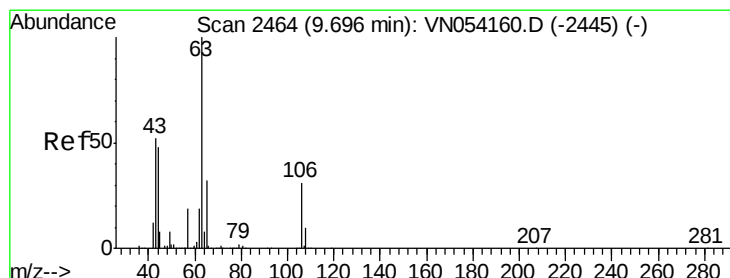
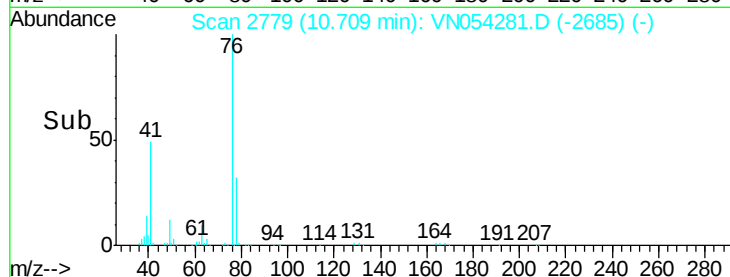
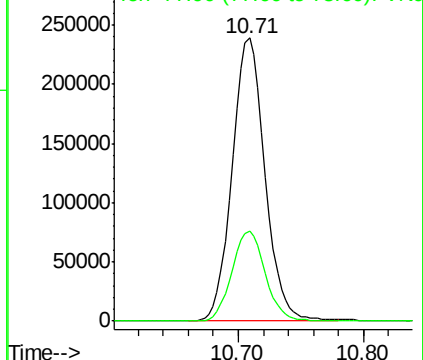
76 100

78 32.3 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 95.210 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054281.D

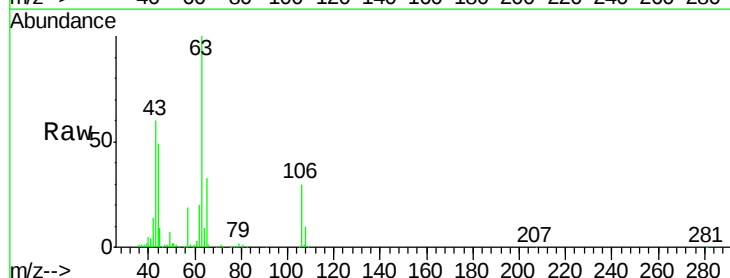
Acq: 15 Mar 2019 00:54

Tgt Ion: 63 Resp: 550421

Ion Ratio Lower Upper

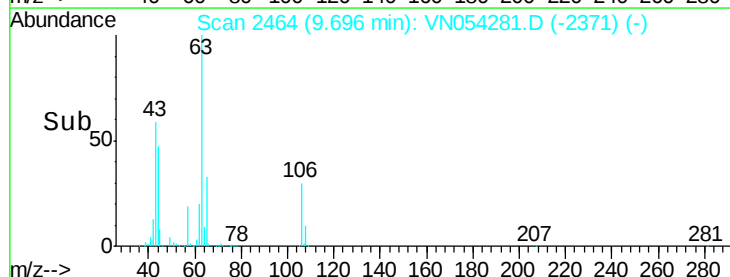
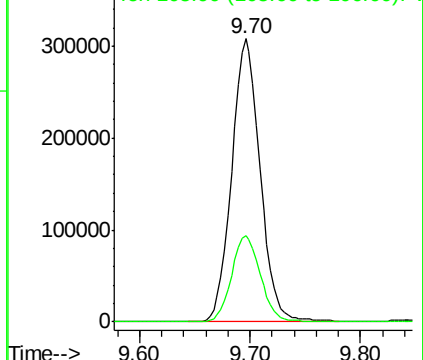
63 100

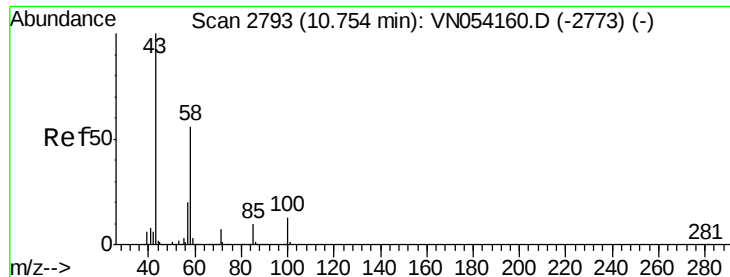
106 30.9 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

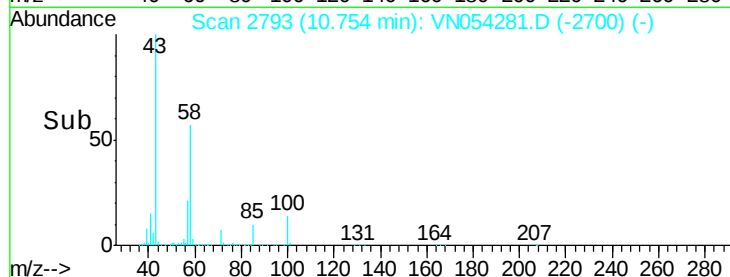
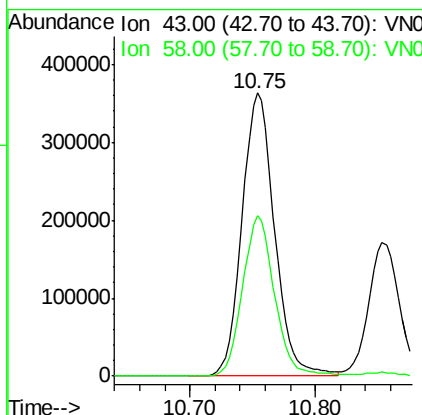
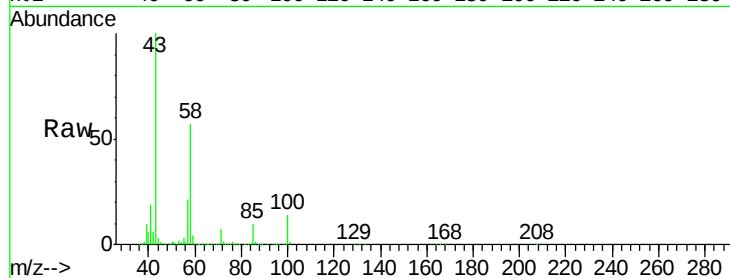




#59
2-Hexanone
Concen: 95.929 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

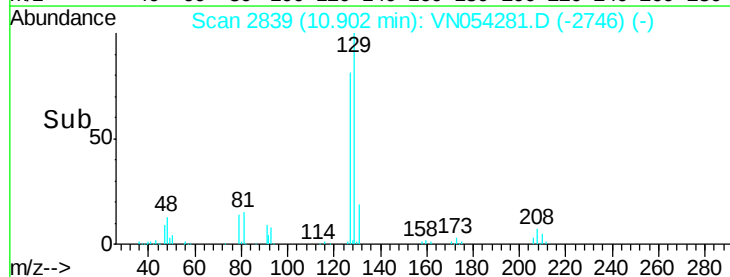
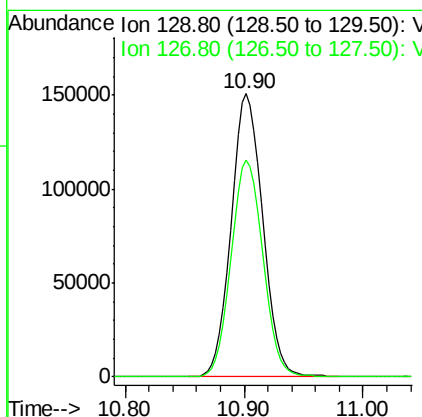
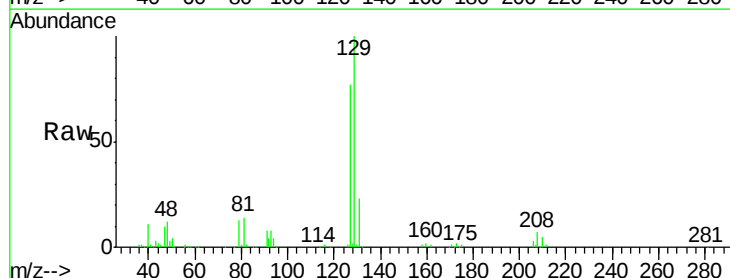
Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

Tot Ion: 43 Resp: 651074
Ion Ratio Lower Upper
43 100
58 56.0 28.0 83.9



#60
Dibromochloromethane
Concen: 19.485 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 129 Resp: 277682
Ion Ratio Lower Upper
129 100
127 77.2 38.6 115.8

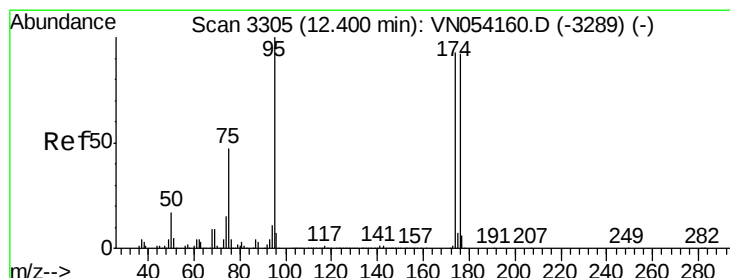
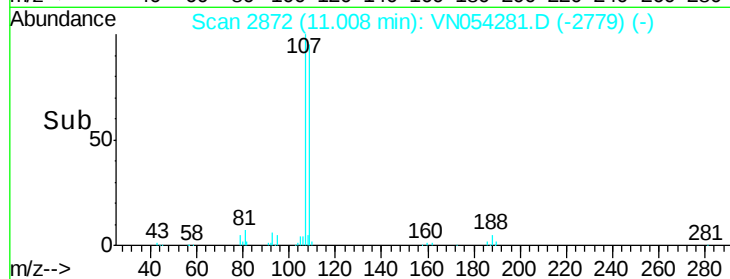
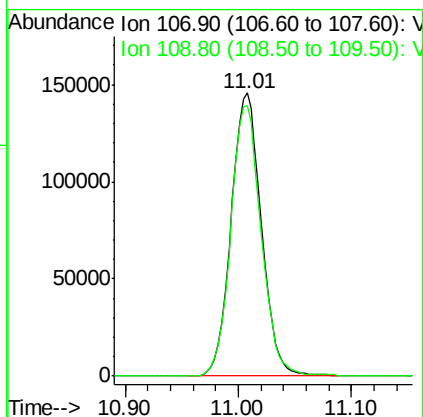
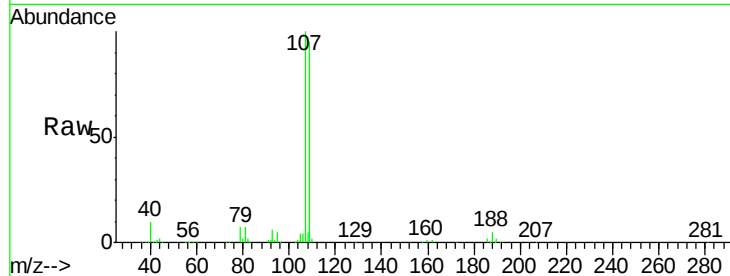




#61
 1,2-Dibromoethane
 Concen: 21.016 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

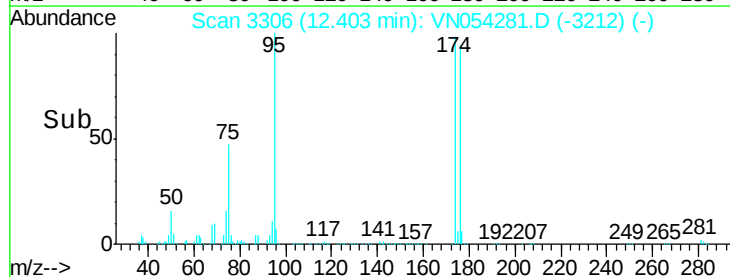
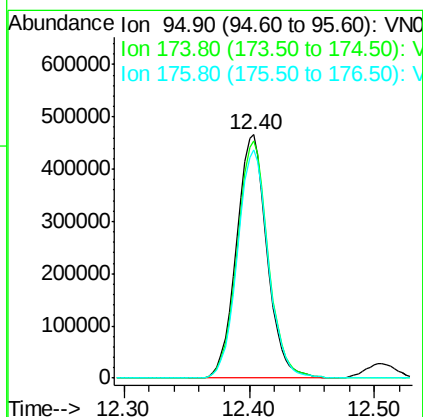
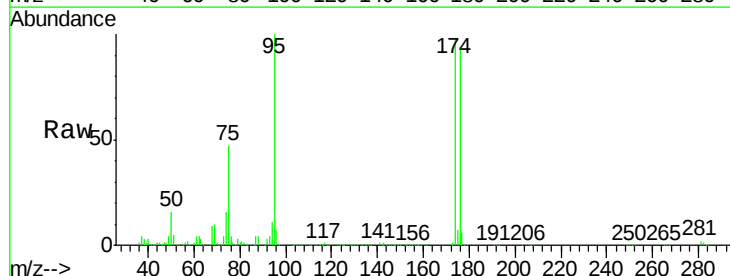
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

Tot Ion:107 Resp: 270400
 Ion Ratio Lower Upper
 107 100
 109 96.6 75.9 113.9



#62
 4-Bromofluorobenzene
 Concen: 45.676 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion: 95 Resp: 789983
 Ion Ratio Lower Upper
 95 100
 174 98.3 0.0 191.0
 176 94.6 0.0 187.4

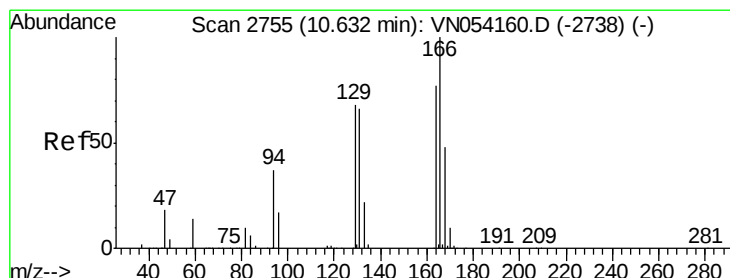
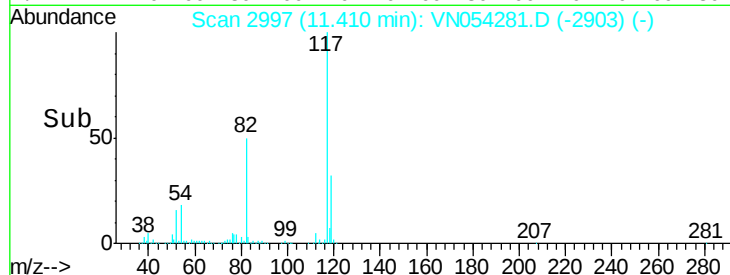
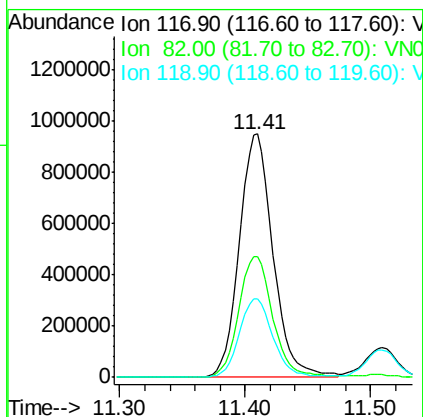
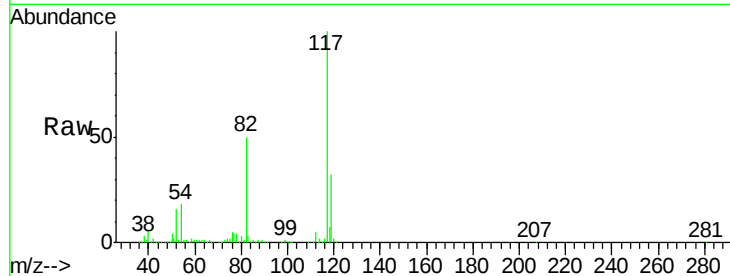




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

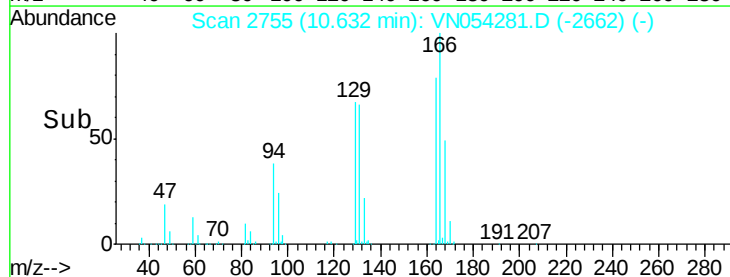
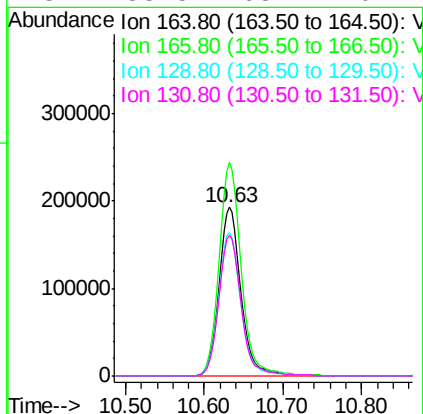
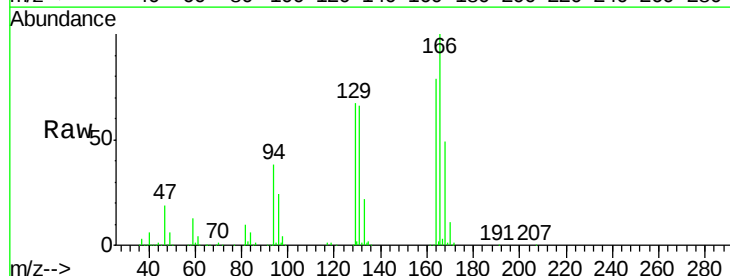
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

Tot Ion:117 Resp: 1775491
Ion Ratio Lower Upper
117 100
82 49.5 40.0 60.0
119 32.1 25.8 38.6



#64
Tetrachloroethene
Concen: 21.503 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion:164 Resp: 369133
Ion Ratio Lower Upper
164 100
166 126.4 103.9 155.9
129 85.2 71.1 106.7
131 83.5 68.2 102.4





#65

Chlorobenzene

Concen: 21.076 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

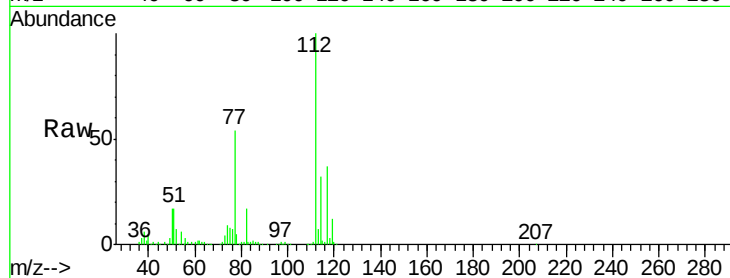
VN0314WBS02

Tot Ion:112 Resp: 821637

Ion Ratio Lower Upper

112 100

114 31.9 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

400000

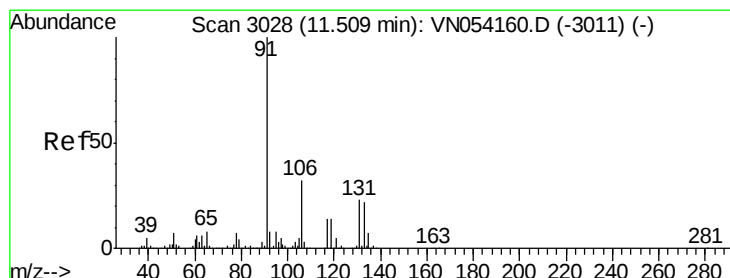
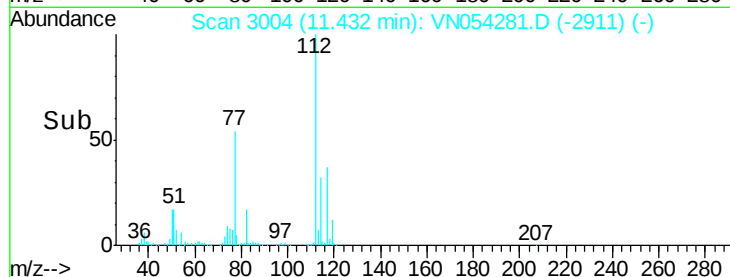
300000

200000

100000

0

Time--> 11.30 11.40 11.50 11.60



#66

1,1,1,2-Tetrachloroethane

Concen: 20.703 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

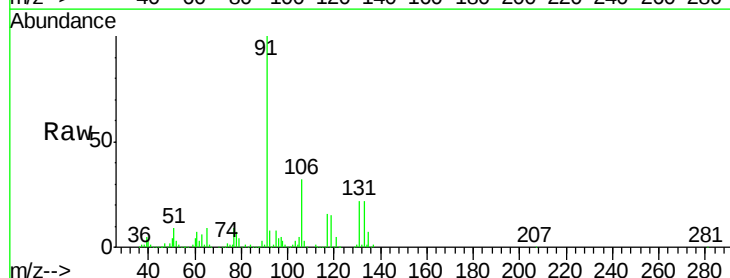
Tgt Ion:131 Resp: 293196

Ion Ratio Lower Upper

131 100

133 97.7 47.6 142.9

119 66.3 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

400000

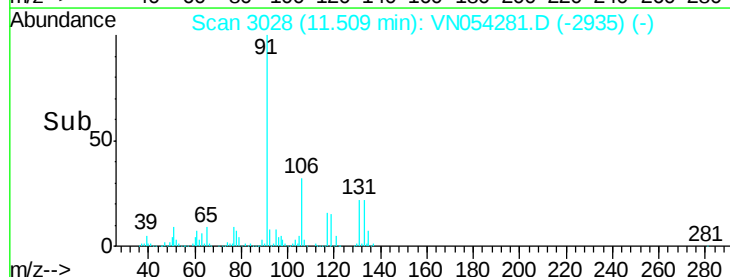
300000

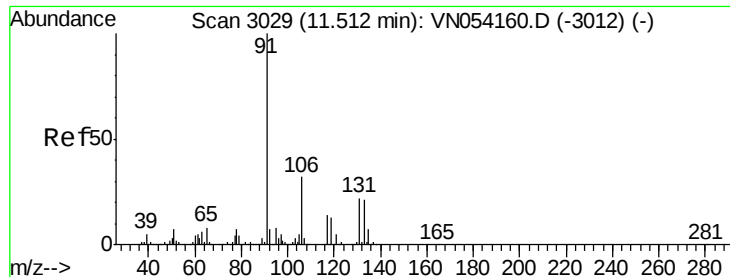
200000

100000

0

Time--> 11.40 11.50 11.60

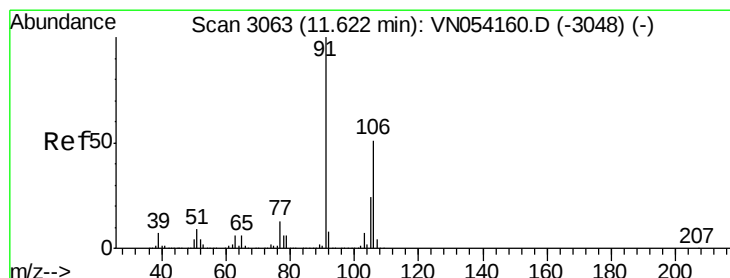
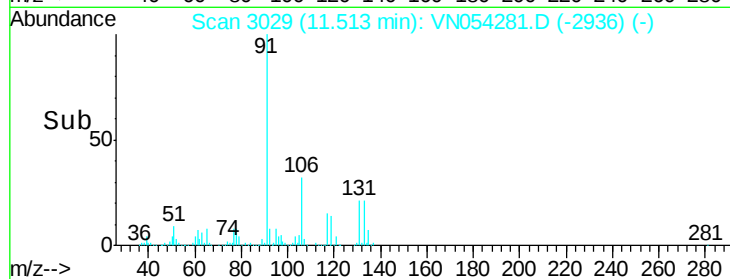
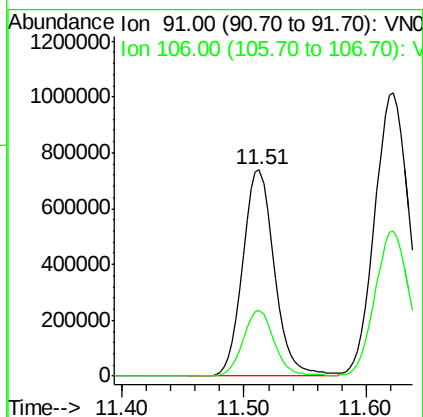
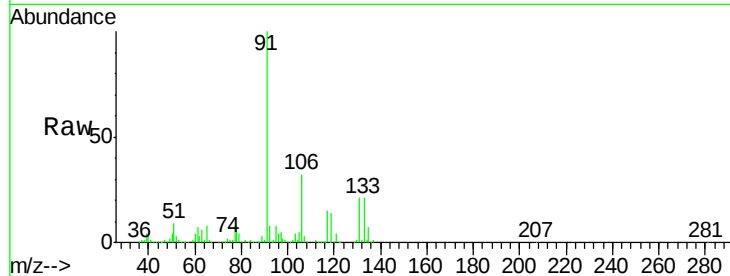




#67
Ethyl Benzene
Concen: 20.454 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

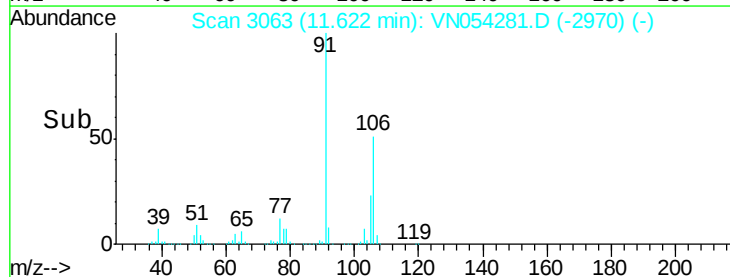
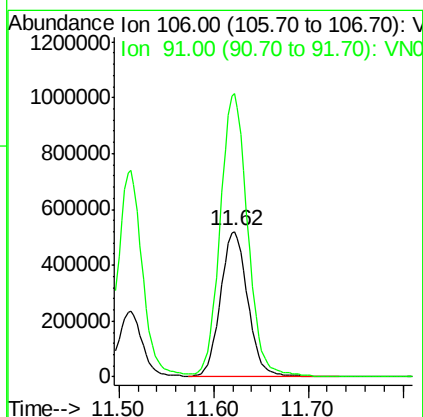
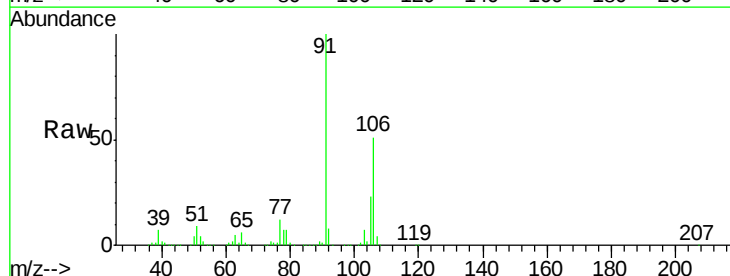
Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

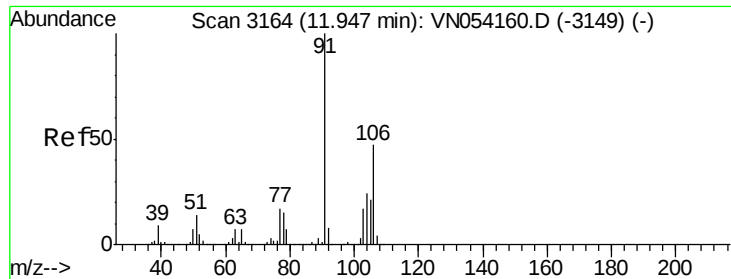
Tot Ion: 91 Resp: 1321822
Ion Ratio Lower Upper
91 100
106 32.1 25.5 38.3



#68
m/p-Xylenes
Concen: 41.313 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 106 Resp: 1043494
Ion Ratio Lower Upper
106 100
91 195.9 159.4 239.2

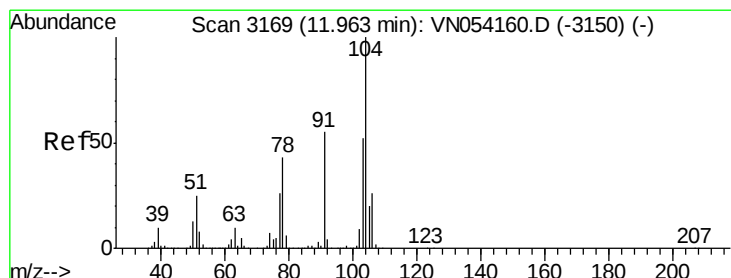
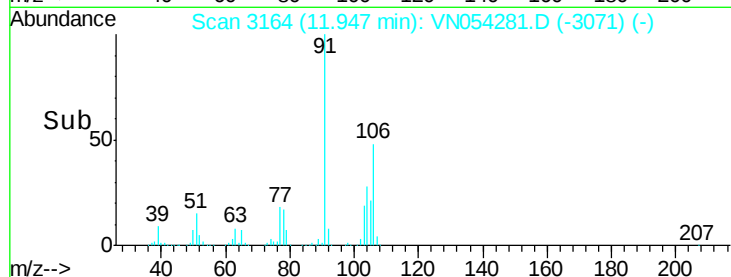
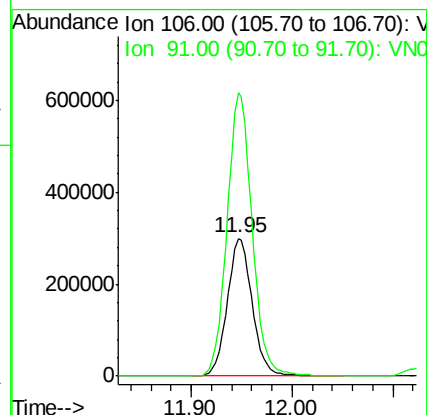
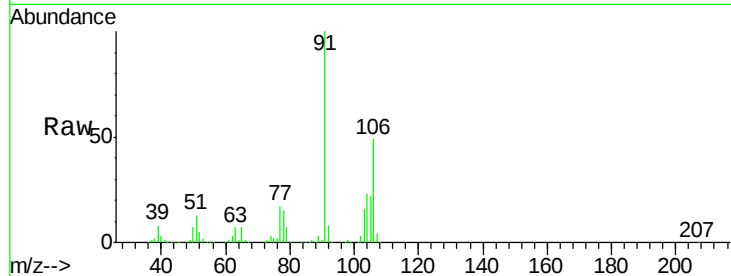




#69
o-Xylene
Concen: 20.989 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

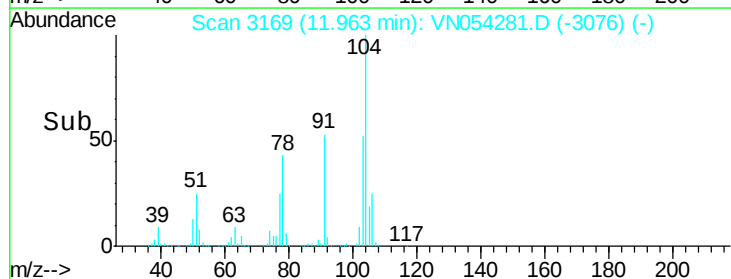
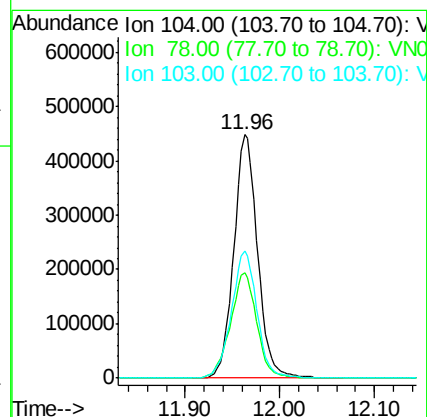
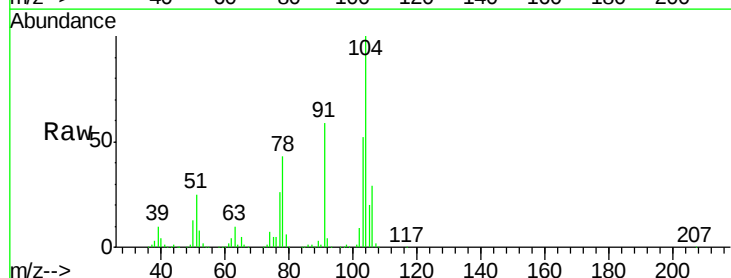
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

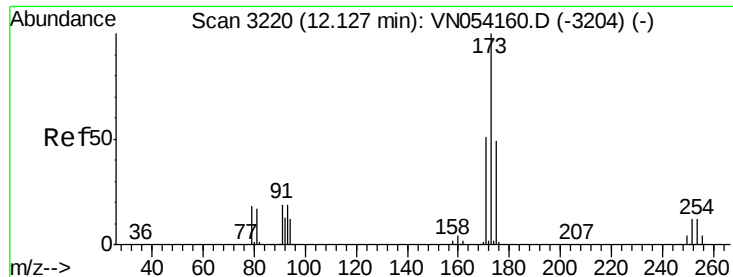
Tot Ion:106 Resp: 516806
Ion Ratio Lower Upper
106 100
91 207.7 105.7 317.1



#70
Styrene
Concen: 20.269 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion:104 Resp: 782704
Ion Ratio Lower Upper
104 100
78 48.1 38.2 57.2
103 56.3 44.4 66.6

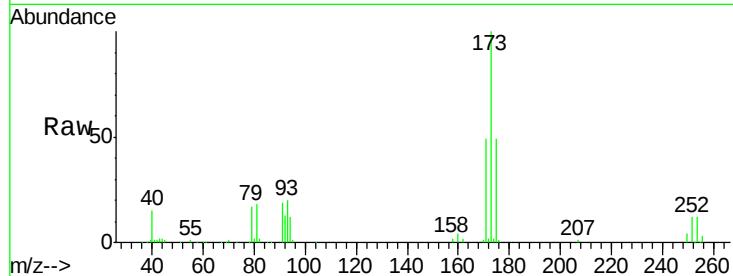




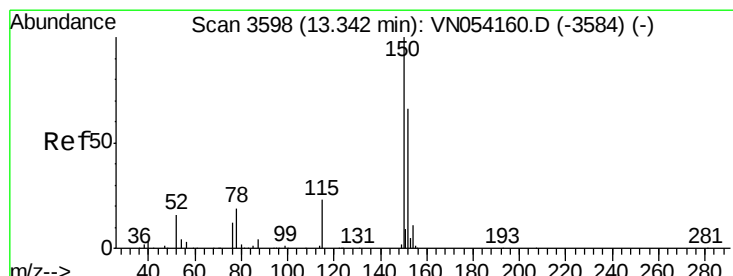
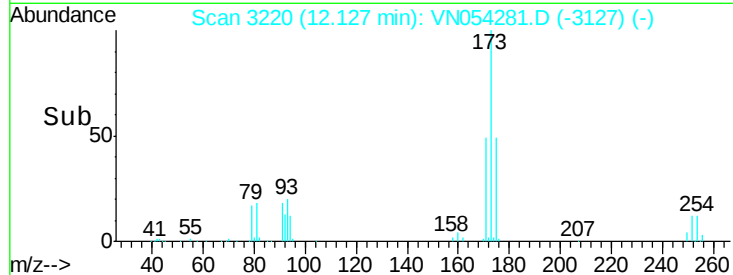
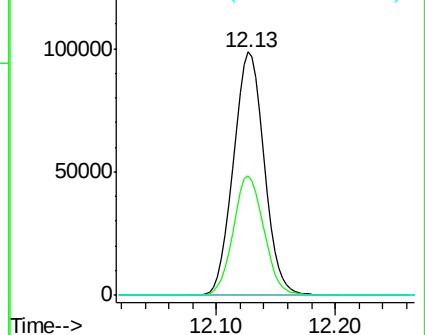
#71
Bromoform
Concen: 17.973 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Instrument :
MSVOA_N
ClientSampled :
VN0314WBS02

Tot Ion:173 Resp: 176980
Ion Ratio Lower Upper
173 100
175 48.8 24.4 73.2
254 0.1 0.1 0.1#

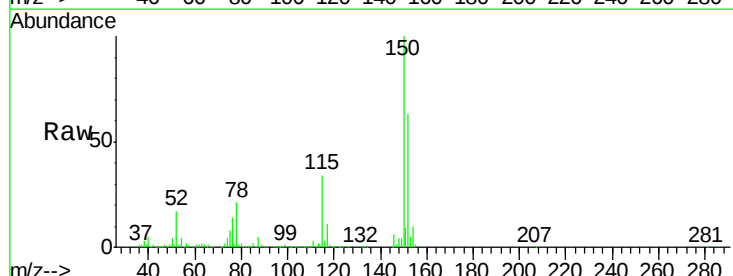


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

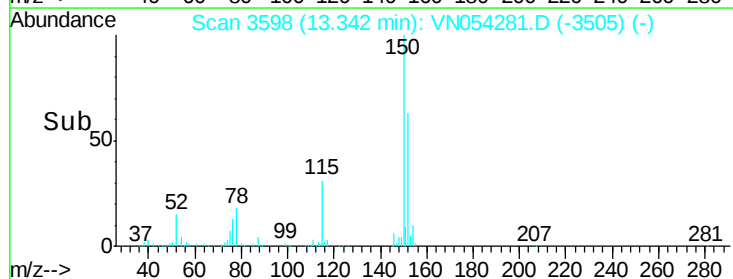
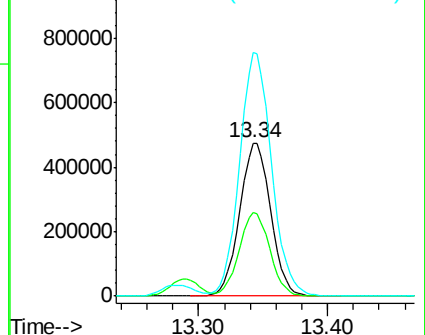


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion:152 Resp: 791627
Ion Ratio Lower Upper
152 100
115 53.8 27.2 81.6
150 164.3 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.492 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

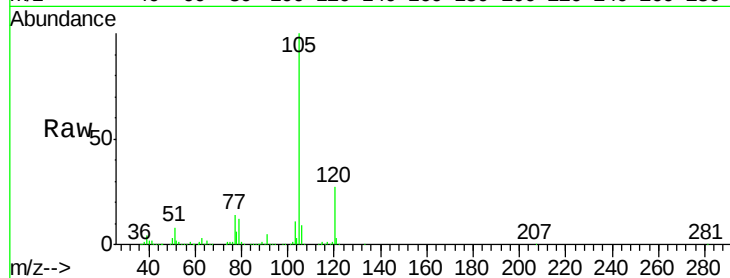
VN0314WBS02

Tot Ion:105 Resp: 1361199

Ion Ratio Lower Upper

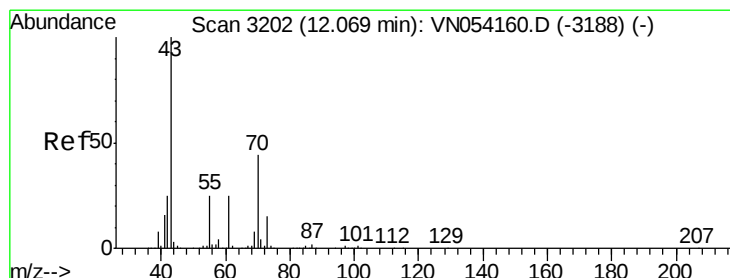
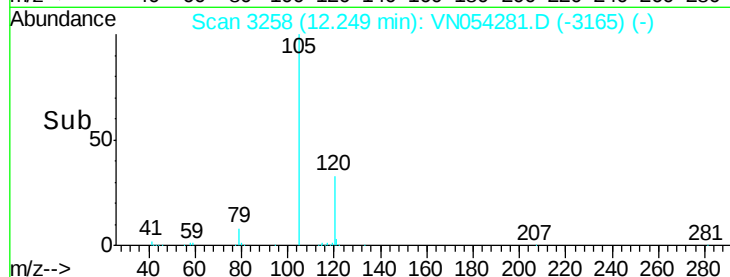
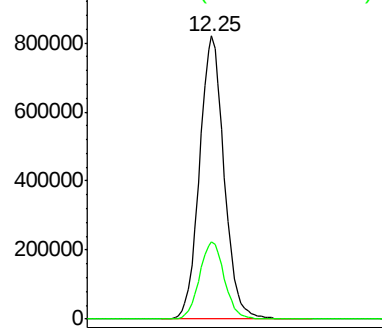
105 100

120 27.8 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.653 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Tgt Ion: 43 Resp: 276291

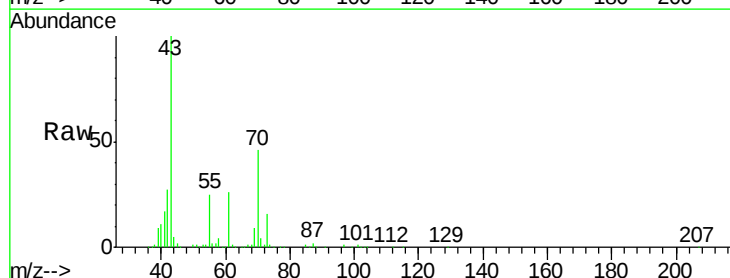
Ion Ratio Lower Upper

43 100

70 46.8 35.4 53.0

55 26.4 19.8 29.6

61 25.6 19.8 29.6

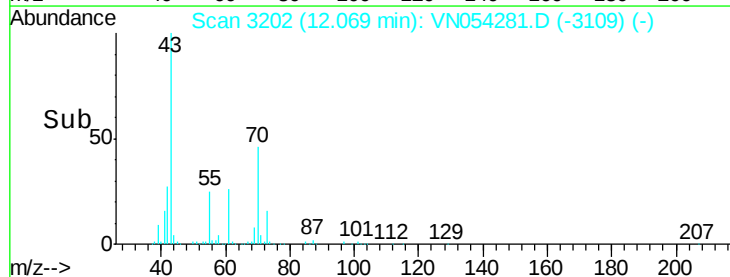
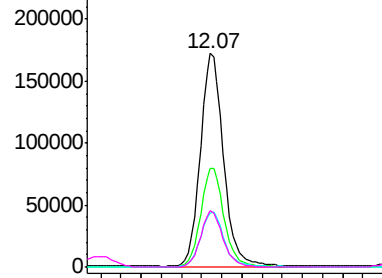


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.845 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

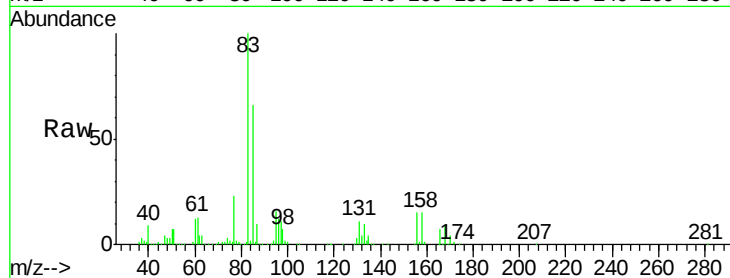
Tot Ion: 83 Resp: 294774

Ion Ratio Lower Upper

83 100

131 11.3 5.8 17.4

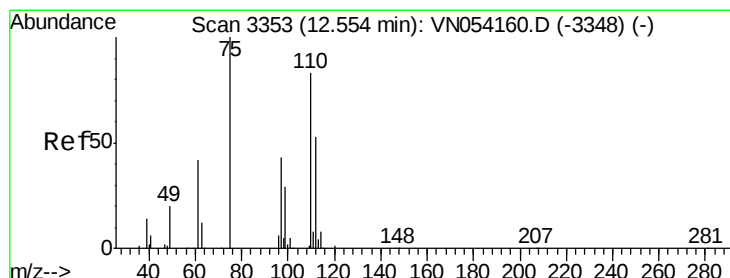
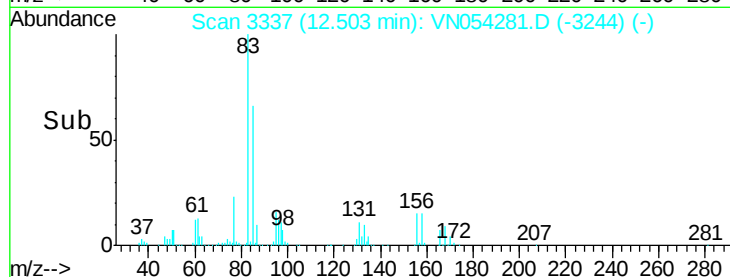
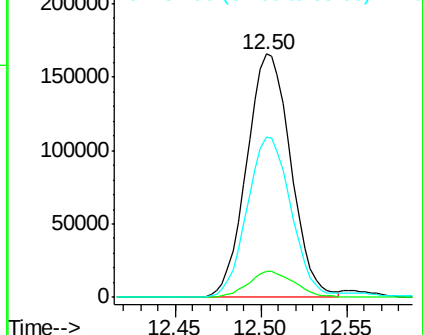
85 66.7 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 29.506 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054281.D

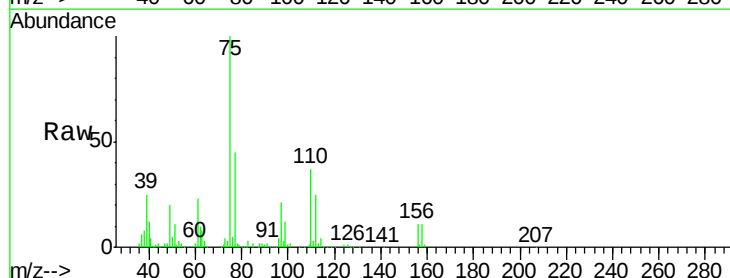
Acq: 15 Mar 2019 00:54

Tgt Ion: 75 Resp: 343486

Ion Ratio Lower Upper

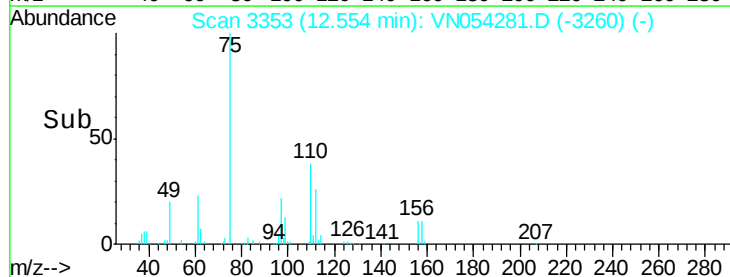
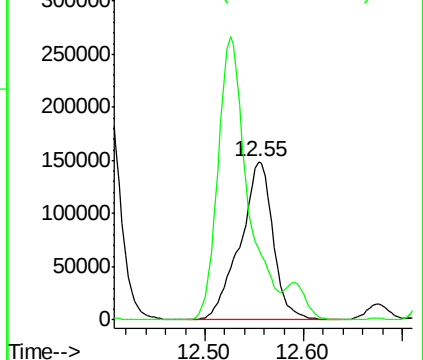
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 21.543 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

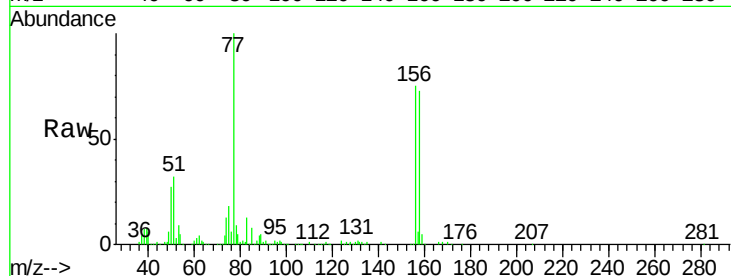
Tot Ion:156 Resp: 361047

Ion Ratio Lower Upper

156 100

77 155.8 81.5 244.4

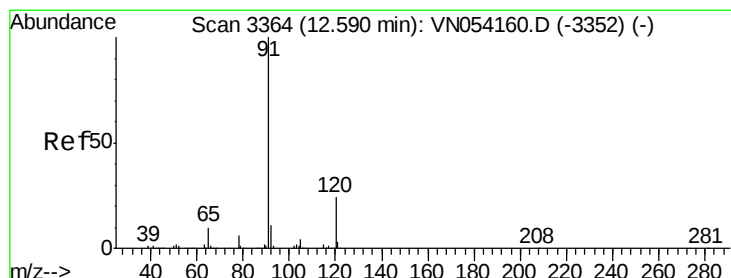
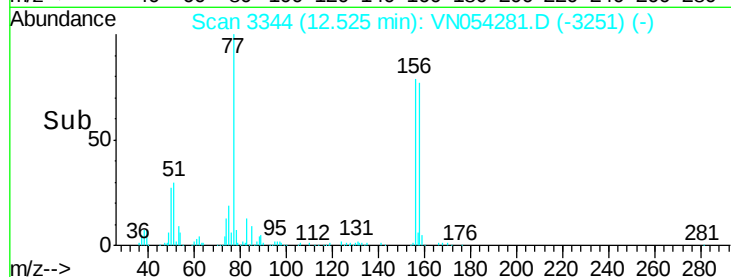
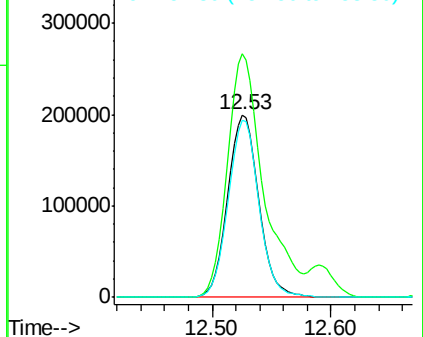
158 96.3 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.869 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054281.D

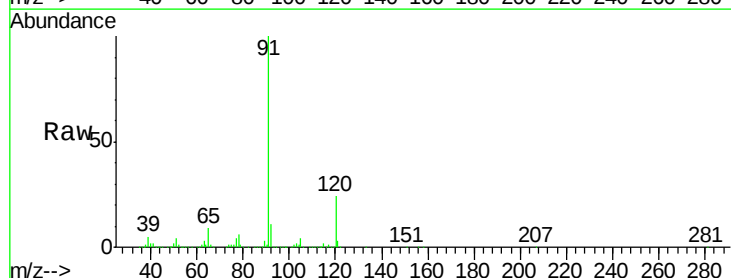
Acq: 15 Mar 2019 00:54

Tgt Ion: 91 Resp: 1434208

Ion Ratio Lower Upper

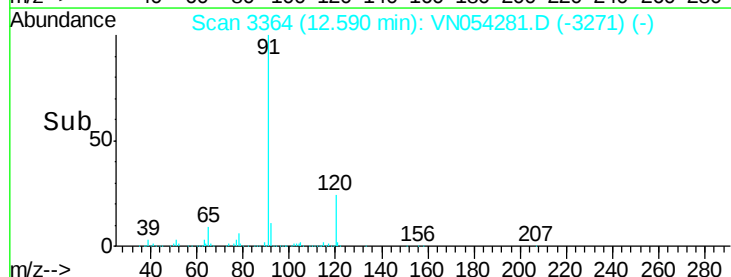
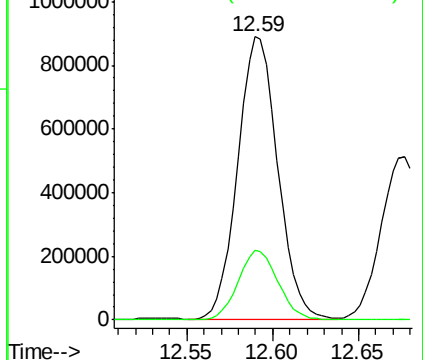
91 100

120 24.7 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.133 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

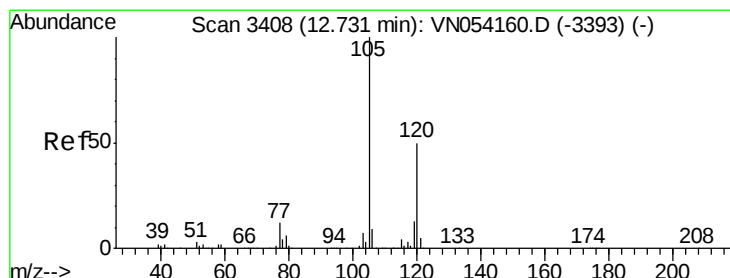
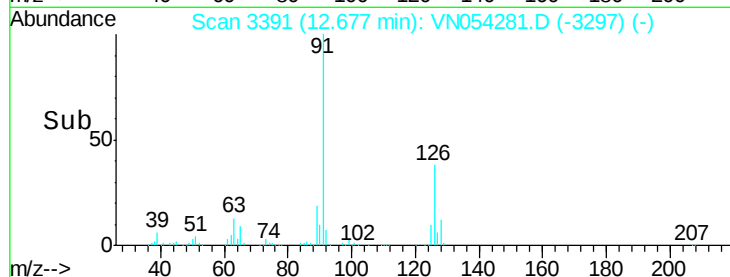
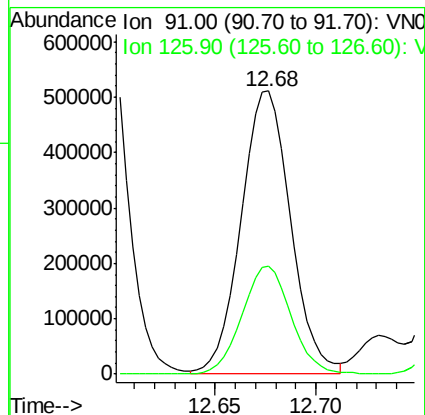
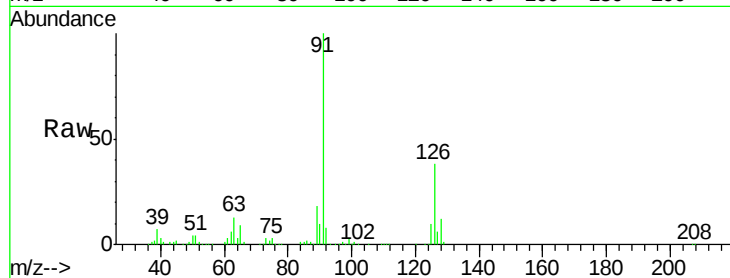
VN0314WBS02

Tot Ion: 91 Resp: 873222

Ion Ratio Lower Upper

91 100

126 38.3 18.7 56.1



#80

1,3,5-Trimethylbenzene

Concen: 21.058 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054281.D

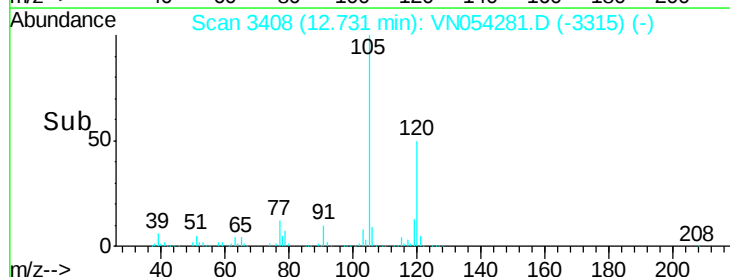
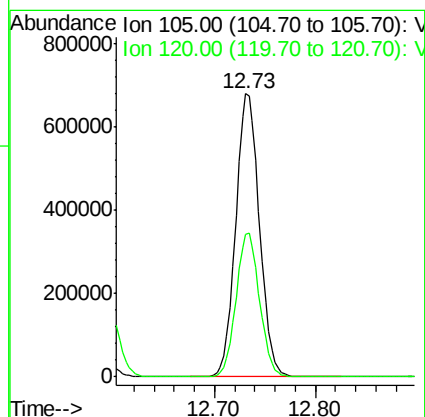
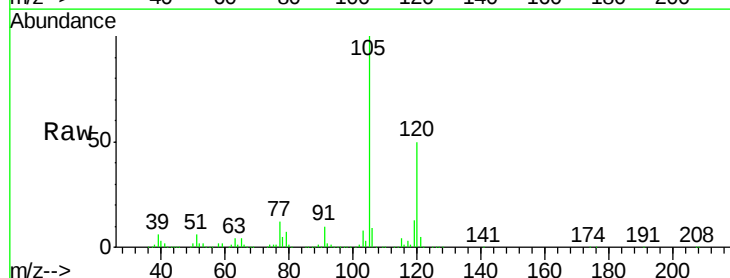
Acq: 15 Mar 2019 00:54

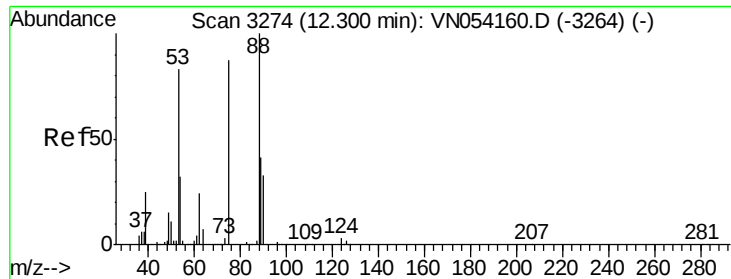
Tgt Ion: 105 Resp: 1109363

Ion Ratio Lower Upper

105 100

120 50.3 25.0 75.0

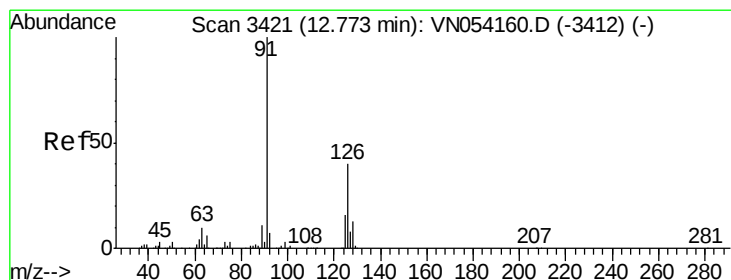
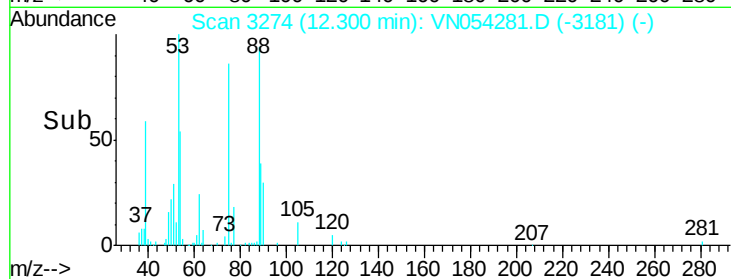
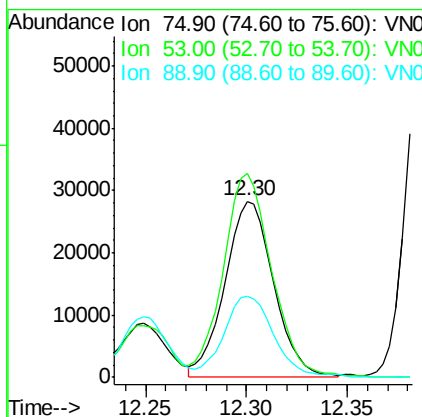
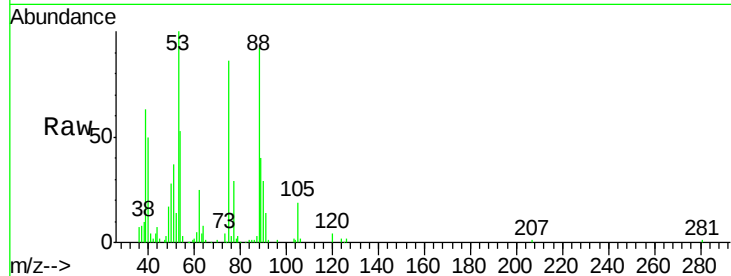




#81
trans-1,4-Dichloro-2-butene
Concen: 13.934 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

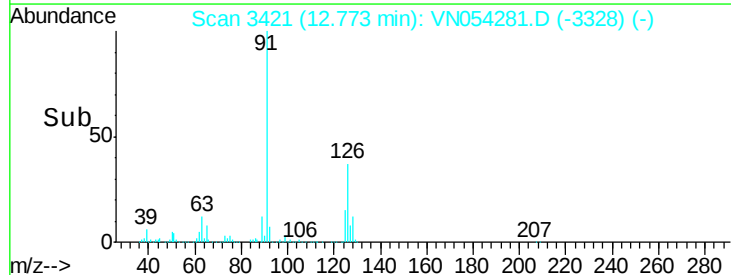
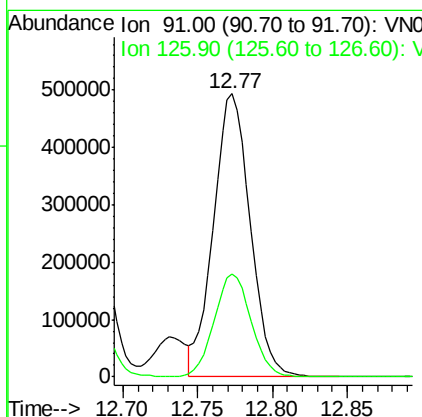
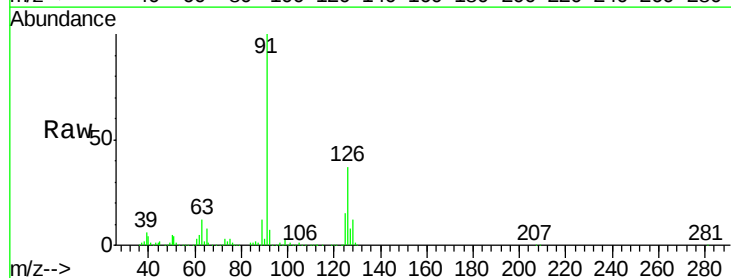
Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

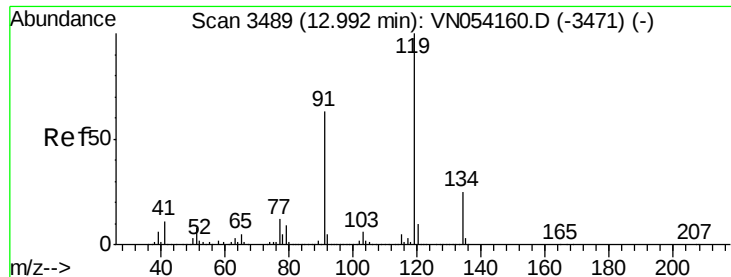
Tot Ion: 75 Resp: 47451
Ion Ratio Lower Upper
75 100
53 116.6 76.2 114.2#
89 47.6 39.2 58.8



#82
4-Chlorotoluene
Concen: 20.433 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054281.D
Acq: 15 Mar 2019 00:54

Tgt Ion: 91 Resp: 843071
Ion Ratio Lower Upper
91 100
126 36.6 18.1 54.1

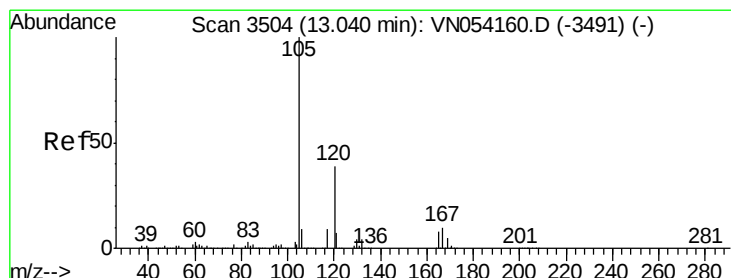
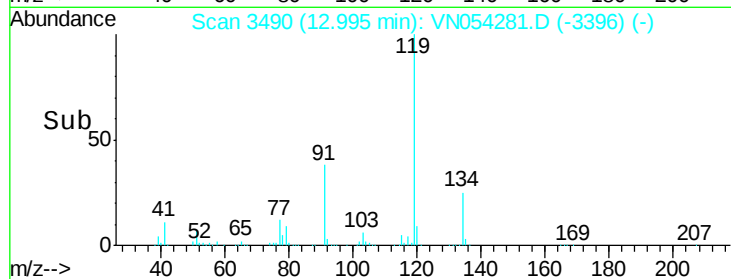
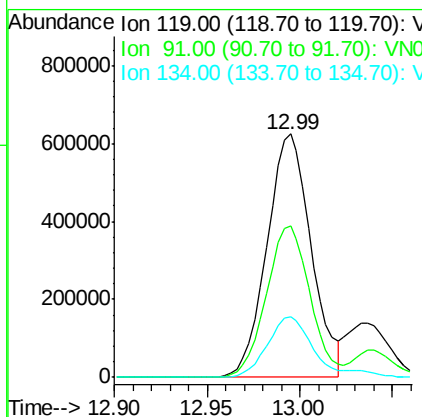
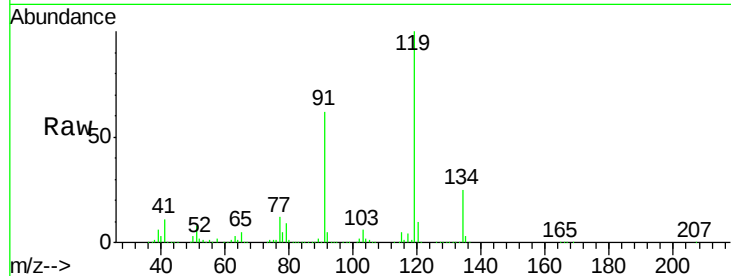




#83
 tert-Butylbenzene
 Concen: 21.396 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

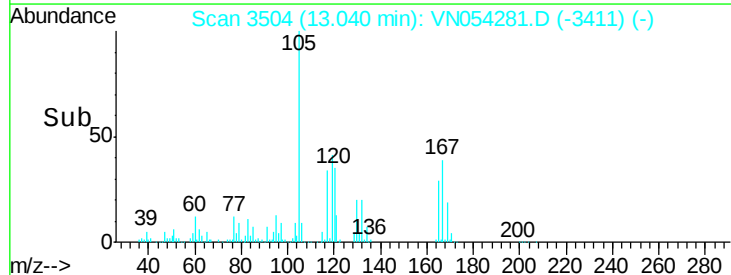
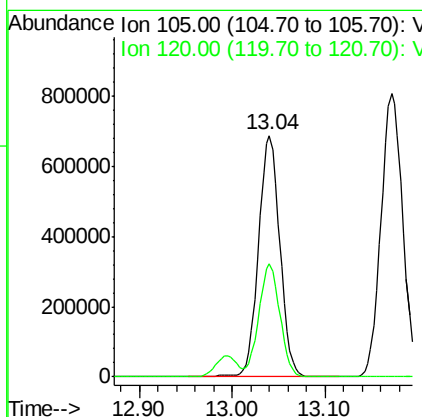
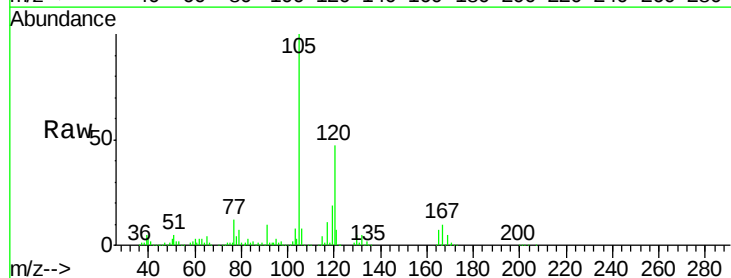
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

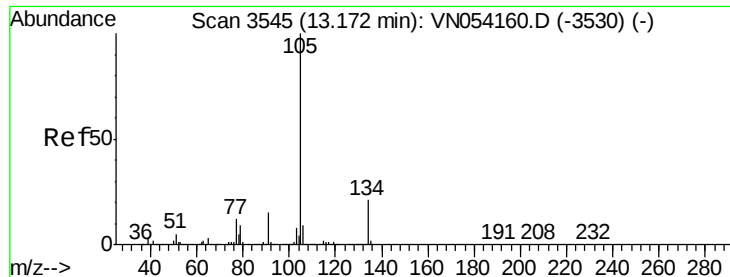
Tot Ion:119 Resp: 1037485
 Ion Ratio Lower Upper
 119 100
 91 61.6 30.9 92.8
 134 26.6 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 21.307 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion:105 Resp: 1101196
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.4 70.3





#85

sec-Butylbenzene

Concen: 20.805 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

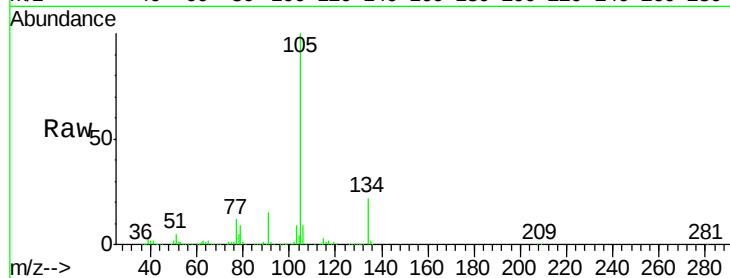
VN0314WBS02

Tot Ion:105 Resp: 1308310

Ion Ratio Lower Upper

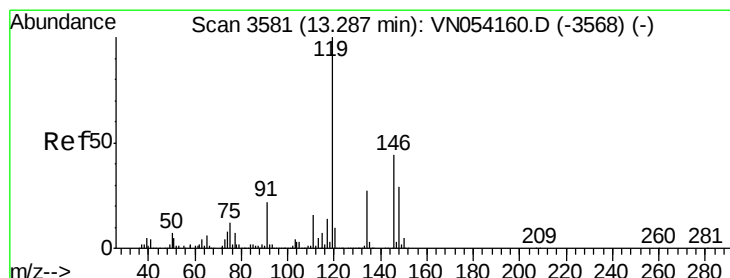
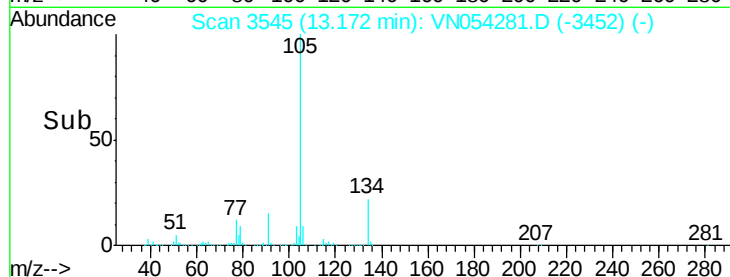
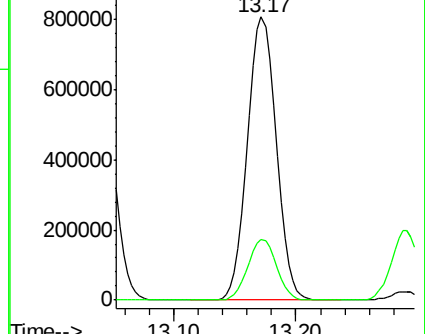
105 100

134 21.3 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.416 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

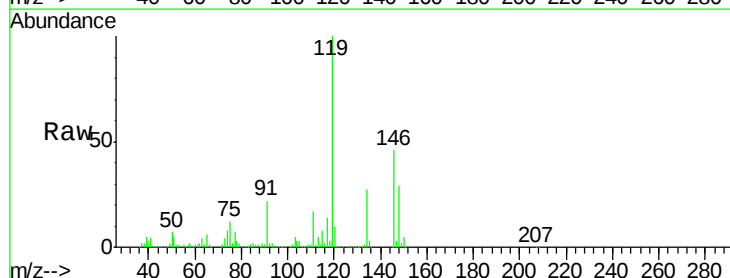
Tgt Ion:119 Resp: 1126319

Ion Ratio Lower Upper

119 100

134 27.6 13.6 40.8

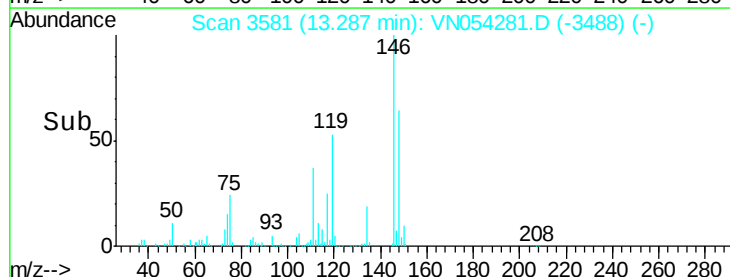
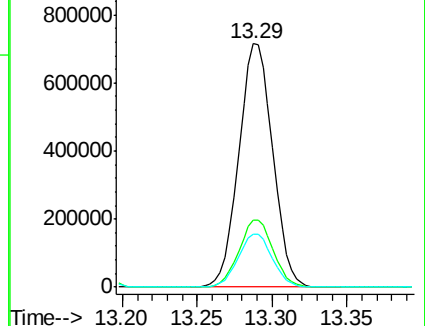
91 21.9 11.1 33.3

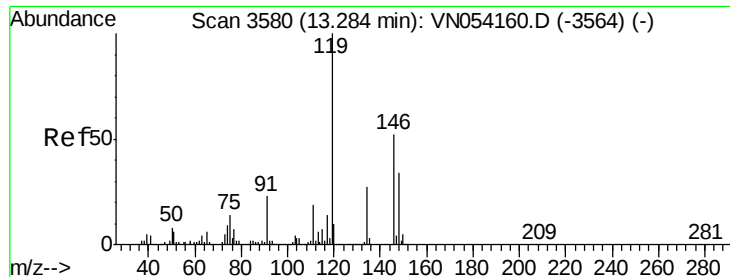


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 20.753 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

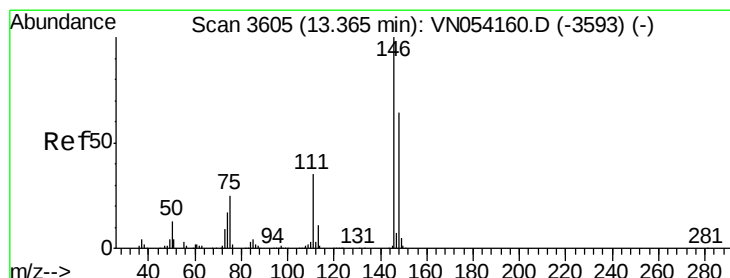
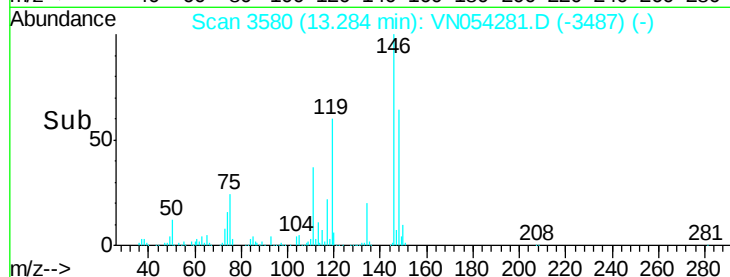
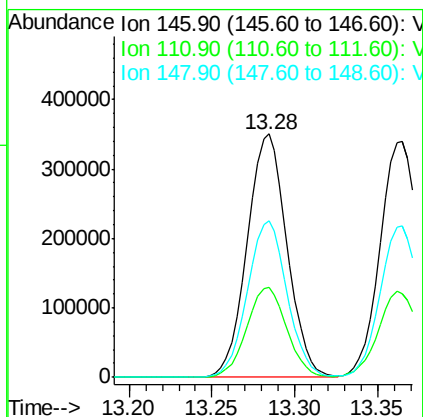
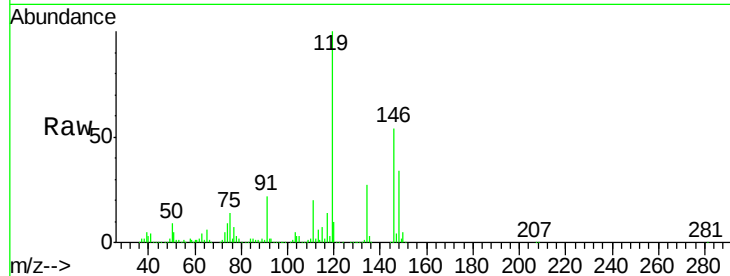
Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBS02

Tot Ion:146 Resp: 586062

Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.8	56.3
148	64.3	32.2	96.6



#88

1,4-Dichlorobenzene

Concen: 20.478 ug/l

RT: 13.36 min Scan# 3605

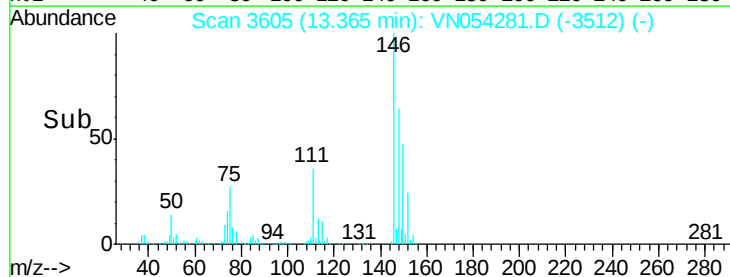
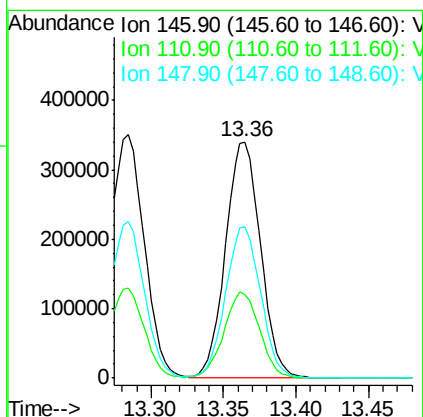
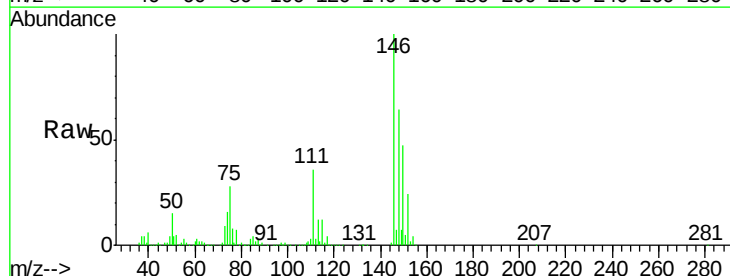
Delta R.T. 0.00 min

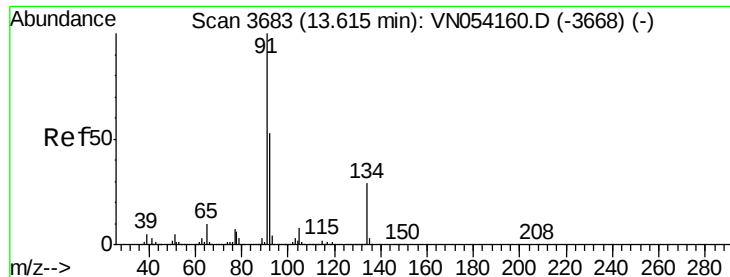
Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Tgt Ion:146 Resp: 568111

Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.1	54.1
148	64.3	32.0	96.0





#89

n-Butylbenzene

Concen: 19.136 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampled :

VN0314WBS02

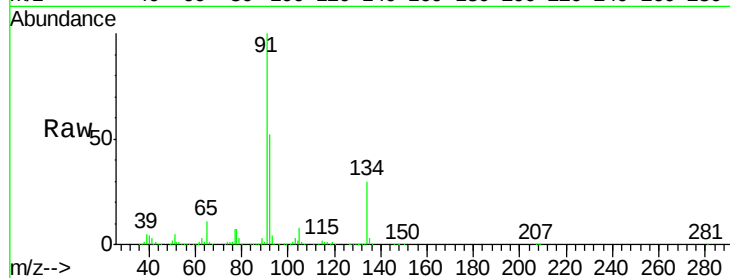
Tot Ion: 91 Resp: 802136

Ion Ratio Lower Upper

91 100

92 52.4 26.2 78.6

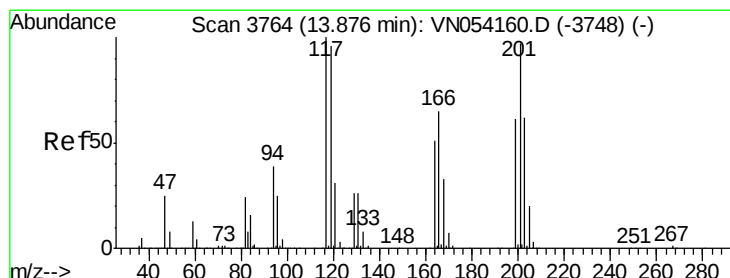
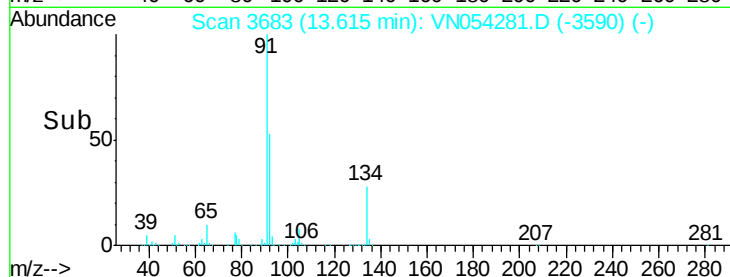
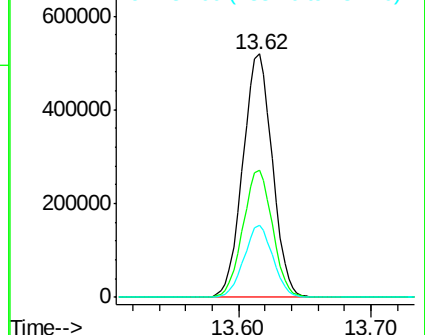
134 29.2 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 18.102 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054281.D

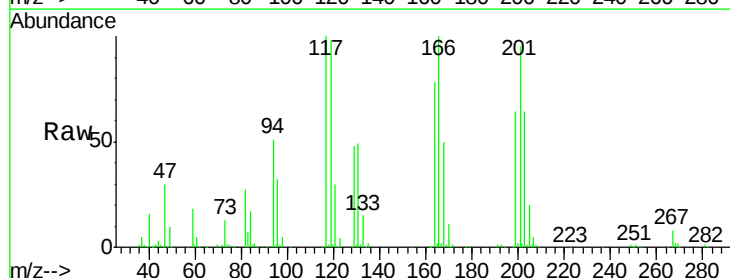
Acq: 15 Mar 2019 00:54

Tgt Ion: 117 Resp: 165368

Ion Ratio Lower Upper

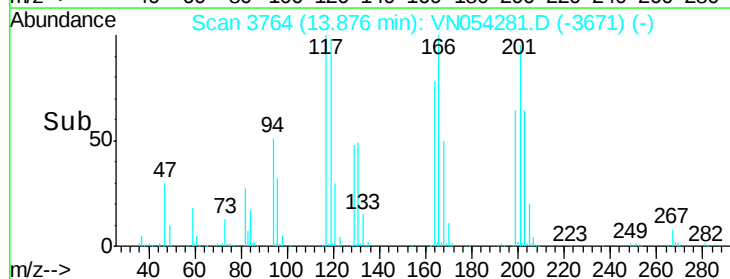
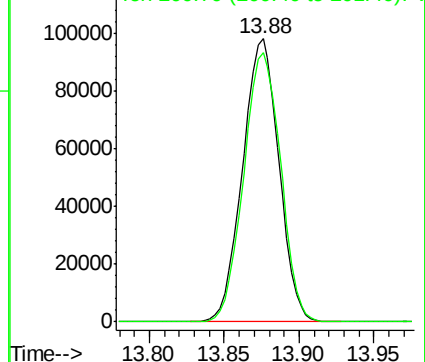
117 100

201 97.0 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

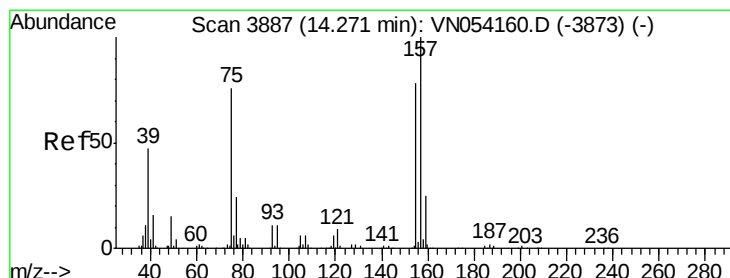
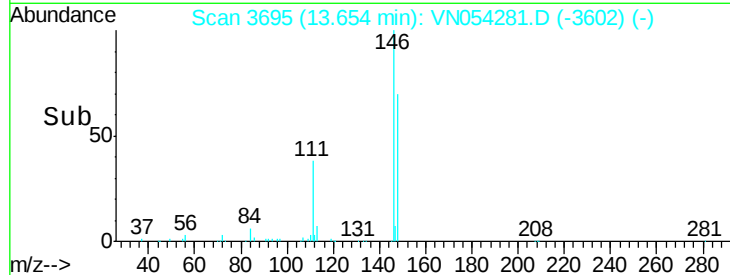
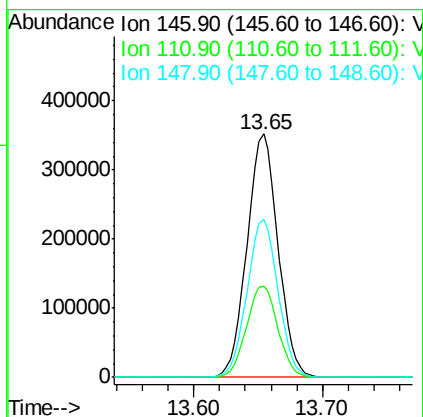
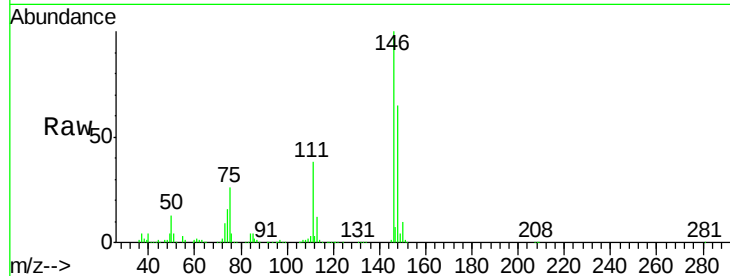




#91
 1,2-Dichlorobenzene
 Concen: 21.430 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

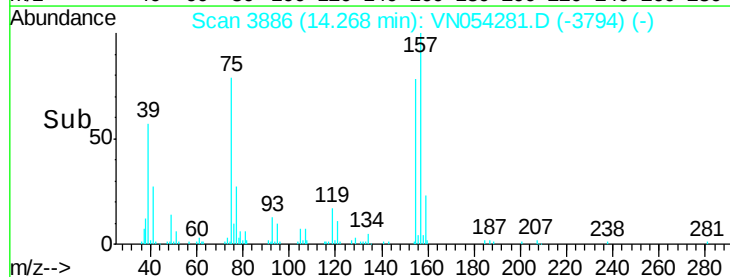
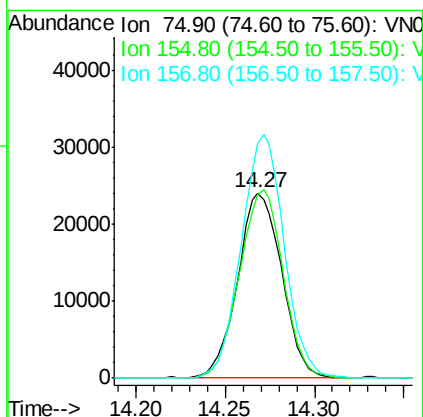
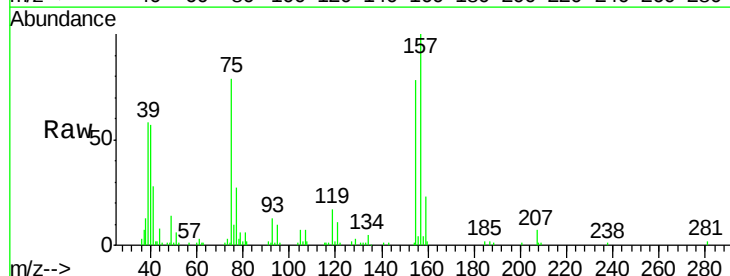
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBS02

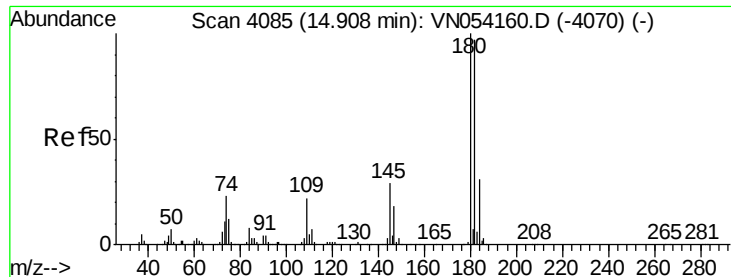
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.3
148	64.9	32.4	97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.863 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054281.D
 Acq: 15 Mar 2019 00:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.1	50.1	150.3
157	128.7	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 19.095 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

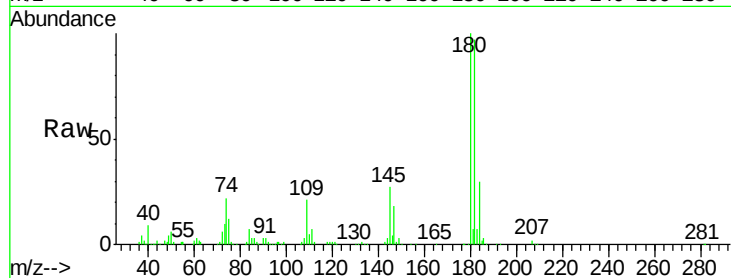
Tot Ion:180 Resp: 290968

Ion Ratio Lower Upper

180 100

182 94.9 48.0 144.2

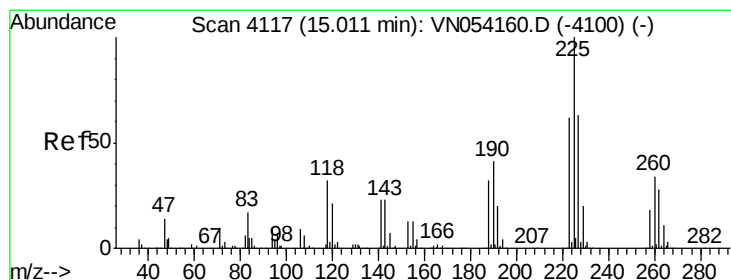
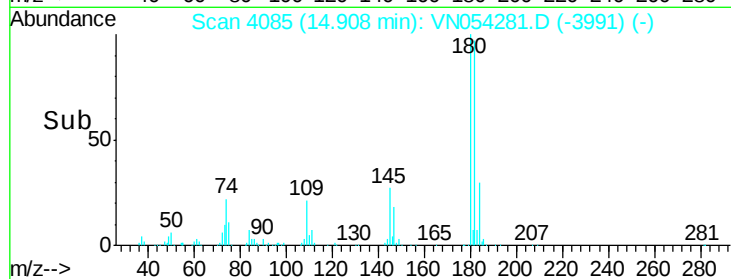
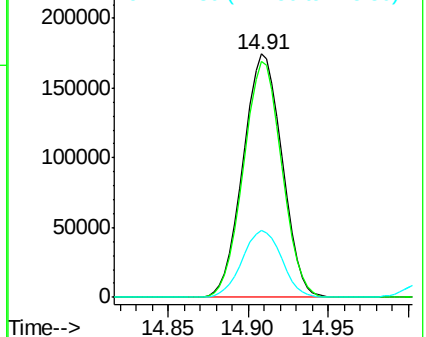
145 27.7 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 19.517 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

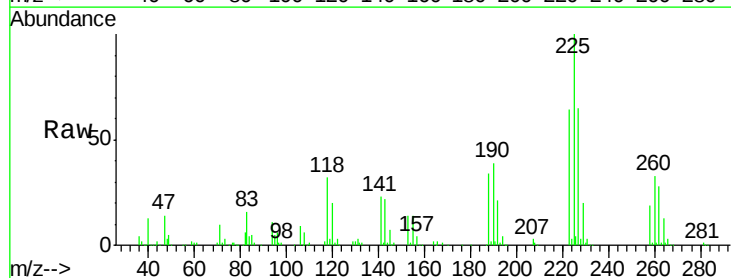
Tgt Ion:225 Resp: 205238

Ion Ratio Lower Upper

225 100

223 64.2 31.1 93.5

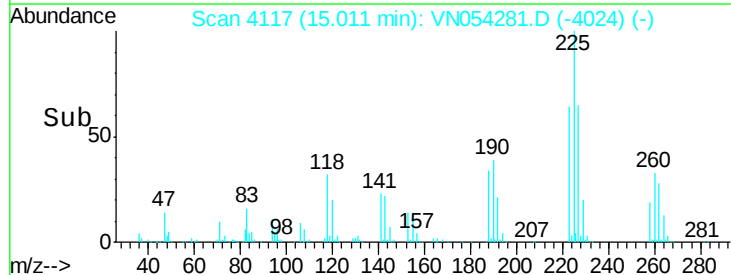
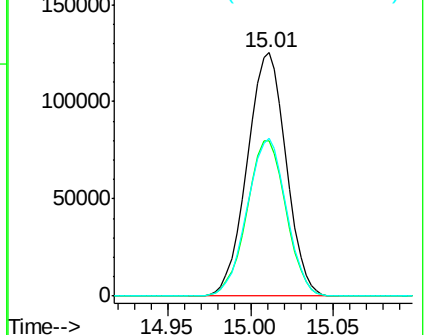
227 65.3 31.9 95.9

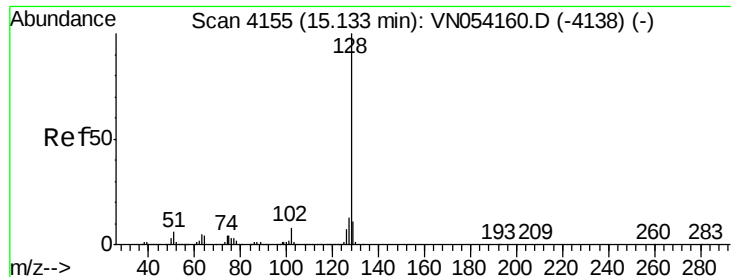


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 19.727 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBS02

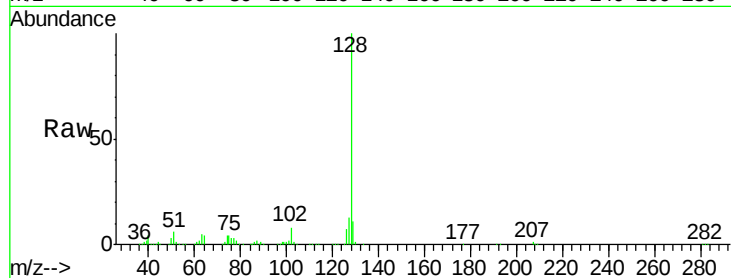
Tot Ion:128 Resp: 606578

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

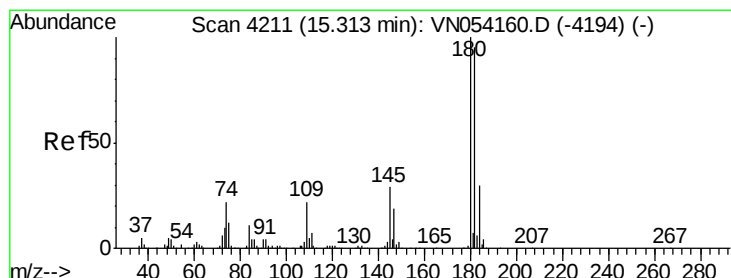
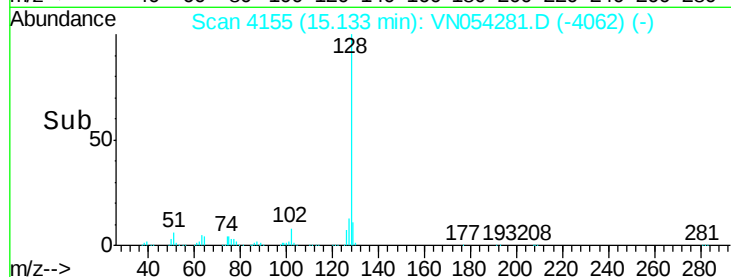
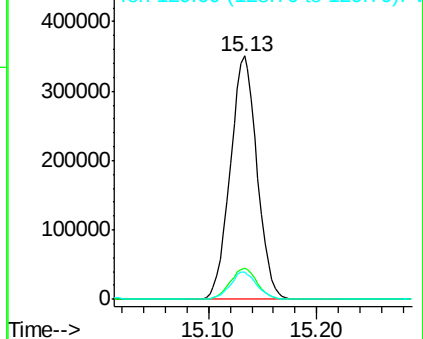
129 11.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.619 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054281.D

Acq: 15 Mar 2019 00:54

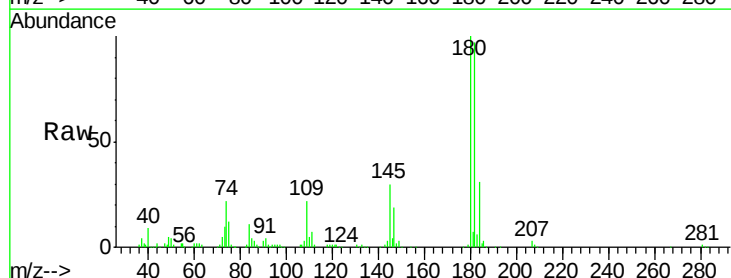
Tgt Ion:180 Resp: 302453

Ion Ratio Lower Upper

180 100

182 96.1 47.5 142.6

145 29.6 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

