

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054426.D
 Acq On : 19 Mar 2019 6:52
 Operator : JC/SP
 Sample : VN0318MBSD02
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

Quant Time: Mar 19 07:54:26 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	1203976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1982150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1725144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	842689	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	652289	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
35) Dibromofluoromethane	7.59	113	626263	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	10.09	98	2316381	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	12.40	95	774162	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	220642	19.337	ug/l	98
3) Chloromethane	2.06	50	217719	19.643	ug/l	99
4) Vinyl Chloride	2.18	62	227658	17.970	ug/l	99
5) Bromomethane	2.57	94	148095	16.878	ug/l	99
6) Chloroethane	2.71	64	135368	17.660	ug/l	99
7) Trichlorofluoromethane	3.02	101	294905	17.509	ug/l	99
8) Diethyl Ether	3.41	74	155254	20.227	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	236154	18.710	ug/l	99
10) Methyl Iodide	3.94	142	332433	19.488	ug/l	100
11) Tert butyl alcohol	4.82	59	90020	102.698	ug/l	100
12) 1,1-Dichloroethene	3.73	96	242736	19.407	ug/l	98
13) Acrolein	3.61	56	44811	53.949	ug/l	99
14) Allyl chloride	4.32	41	320700	19.984	ug/l	93
15) Acrylonitrile	4.99	53	444259	123.384	ug/l	98
16) Acetone	3.82	43	272306	74.380	ug/l	98
17) Carbon Disulfide	4.04	76	497490	15.866	ug/l	100
18) Methyl Acetate	4.33	43	205629	27.762	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	733885	23.671	ug/l	99
20) Methylene Chloride	4.54	84	273798	22.777	ug/l	95
21) trans-1,2-Dichloroethene	5.03	96	257091	21.452	ug/l	97
22) Diisopropyl ether	5.96	45	735484	22.963	ug/l	96
23) Vinyl Acetate	5.90	43	2453761	103.905	ug/l	98
24) 1,1-Dichloroethane	5.85	63	468603	22.786	ug/l	99
25) 2-Butanone	6.85	43	479386	111.566	ug/l	98
26) 2,2-Dichloropropane	6.82	77	205817	11.380	ug/l	93
27) cis-1,2-Dichloroethene	6.83	96	307971	23.035	ug/l	94
28) Bromochloromethane	7.19	49	180302	21.446	ug/l	98
29) Tetrahydrofuran	7.22	42	329181	119.150	ug/l	98
30) Chloroform	7.37	83	485674	22.632	ug/l	99
31) Cyclohexane	7.65	56	411009	20.656	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	395297	20.396	ug/l	99
36) 1,1-Dichloropropene	7.79	75	345143	18.908	ug/l	99
37) Ethyl Acetate	6.94	43	213059	20.314	ug/l	95
38) Carbon Tetrachloride	7.77	117	340321	17.778	ug/l	99

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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)
39) Methylcyclohexane	9.08	83	393654	17.528	ug/l	99
40) Benzene	8.04	78	1081987	20.714	ug/l	100
41) Methacrylonitrile	7.18	41	116706	19.488	ug/l	92
42) 1,2-Dichloroethane	8.12	62	338925	19.218	ug/l	98
43) Isopropyl Acetate	8.17	43	354285	19.244	ug/l	96
44) Trichloroethene	8.83	130	323174	19.916	ug/l	98
45) 1,2-Dichloropropane	9.12	63	283754	21.877	ug/l	98
46) Dibromomethane	9.21	93	178793	20.402	ug/l	99
47) Bromodichloromethane	9.40	83	334192	19.022	ug/l	98
48) Methyl methacrylate	9.20	41	187027	20.018	ug/l	91
49) 1,4-Dioxane	9.20	88	62021	469.310	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1039018	106.645	ug/l	95
52) Toluene	10.16	92	684670	20.672	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	281375	15.432	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	365759	17.865	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	259144	21.428	ug/l	99
56) Ethyl methacrylate	10.43	69	312607	21.679	ug/l #	91
57) 1,3-Dichloropropane	10.71	76	420364	21.258	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	618039	108.969	ug/l	100
59) 2-Hexanone	10.75	43	657588	101.436	ug/l	95
60) Dibromochloromethane	10.90	129	256153	18.818	ug/l	100
61) 1,2-Dibromoethane	11.01	107	256610	20.880	ug/l	99
64) Tetrachloroethene	10.63	164	334526	20.056	ug/l	99
65) Chlorobenzene	11.43	112	782596	20.660	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	275283	20.005	ug/l	99
67) Ethyl Benzene	11.51	91	1281220	20.404	ug/l	99
68) m/p-Xylenes	11.62	106	994345	40.516	ug/l	99
69) o-Xylene	11.95	106	505892	21.146	ug/l	97
70) Styrene	11.96	104	793116	21.138	ug/l	98
71) Bromoform	12.13	173	165863	17.419	ug/l #	96
73) Isopropylbenzene	12.25	105	1318896	19.562	ug/l	100
74) N-amyl acetate	12.07	43	297623	19.888	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	297668	20.723	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	386868	31.219	ug/l #	100
77) Bromobenzene	12.53	156	2411096	135.147	ug/l #	5
78) n-propylbenzene	12.59	91	1374584	18.790	ug/l	99
79) 2-Chlorotoluene	12.67	91	837967	19.051	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	1140325	20.334	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	43347	11.958	ug/l #	82
82) 4-Chlorotoluene	12.77	91	827881	18.849	ug/l	97
83) tert-Butylbenzene	12.99	119	973395	18.858	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1058310	19.236	ug/l	97
85) sec-Butylbenzene	13.17	105	1217442	18.187	ug/l	100
86) p-Isopropyltoluene	13.29	119	1088881	18.541	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	572324	19.038	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	560094	18.966	ug/l	99
89) n-Butylbenzene	13.61	91	784708	17.586	ug/l	98
90) Hexachloroethane	13.87	117	143608	14.768	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	597810	20.342	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	44528	20.033	ug/l	93

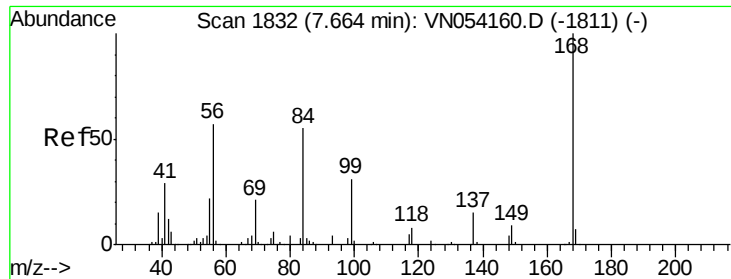
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	323074	19.809	ug/l	99
94) Hexachlorobutadiene	15.01	225	173533	15.502	ug/l	99
95) Naphthalene	15.13	128	830017	24.368	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	333954	21.387	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

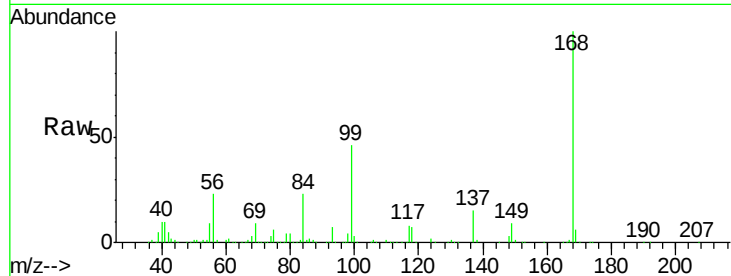
VN0318MBSD02

Tot Ion:168 Resp: 1203976

Ion Ratio Lower Upper

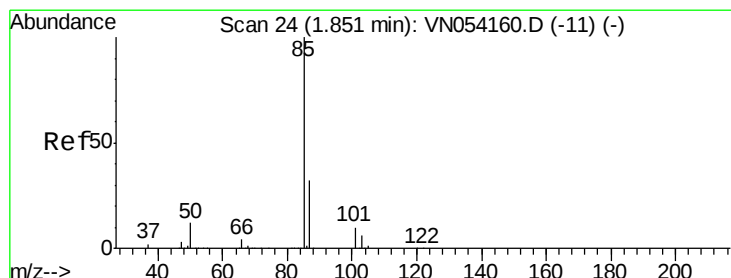
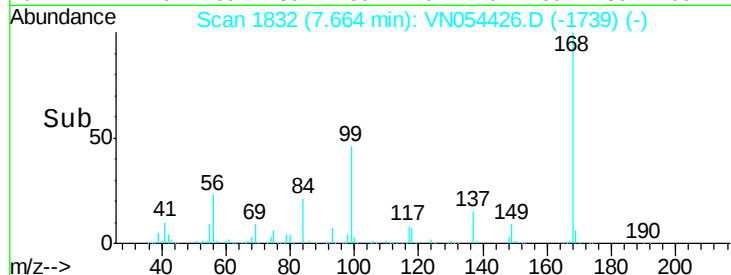
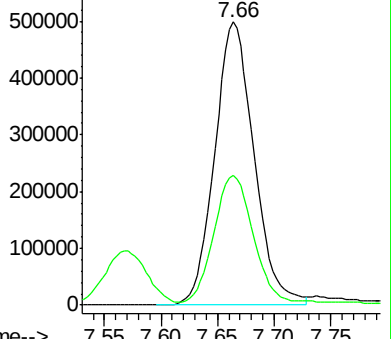
168 100

99 44.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 19.337 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054426.D

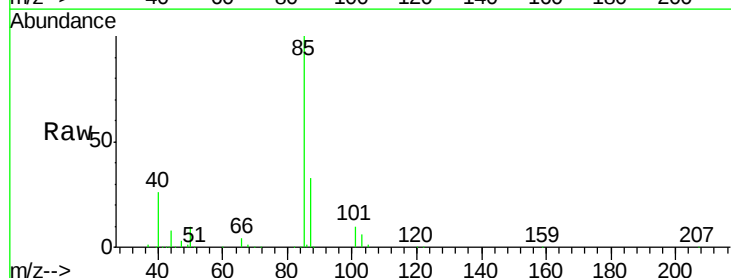
Acq: 19 Mar 2019 6:52

Tgt Ion: 85 Resp: 220642

Ion Ratio Lower Upper

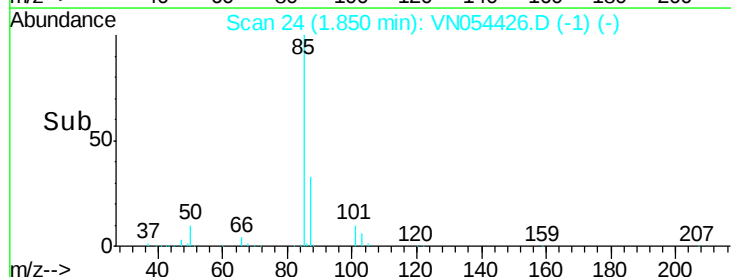
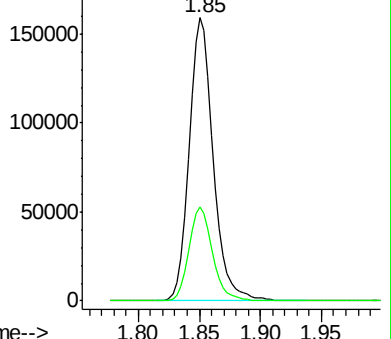
85 100

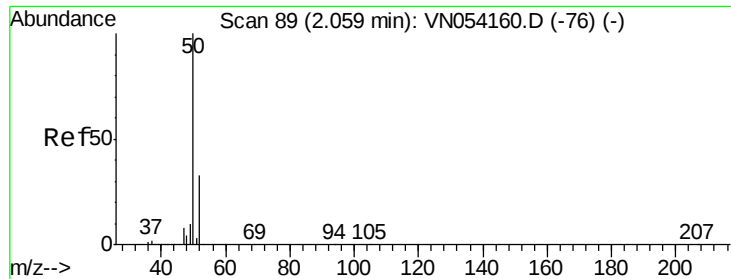
87 33.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 19.643 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

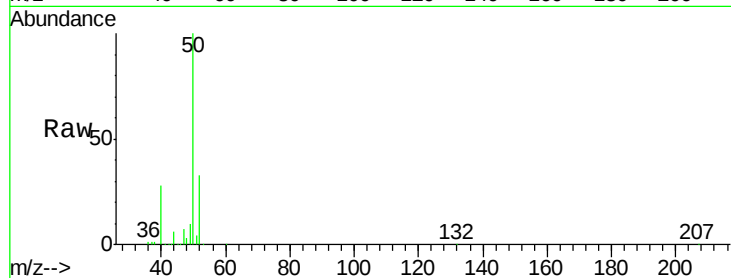
VN0318MBSD02

Tot Ion: 50 Resp: 217719

Ion Ratio Lower Upper

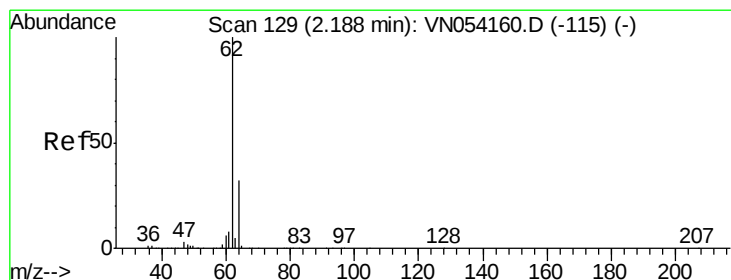
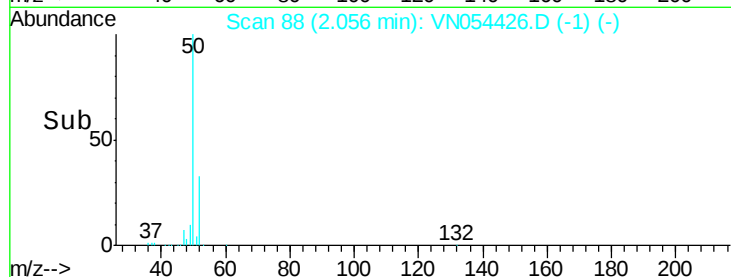
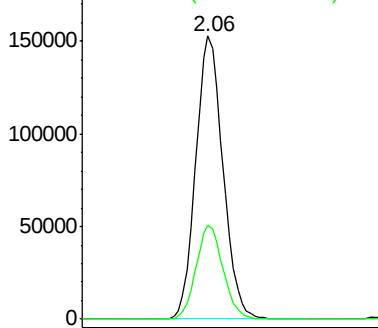
50 100

52 33.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 17.970 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN054426.D

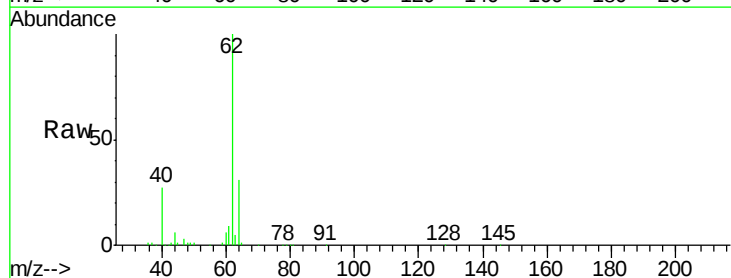
Acq: 19 Mar 2019 6:52

Tgt Ion: 62 Resp: 227658

Ion Ratio Lower Upper

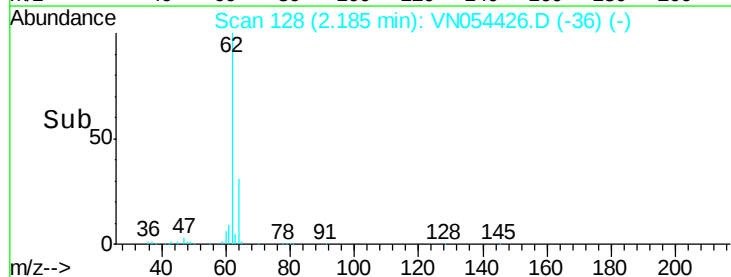
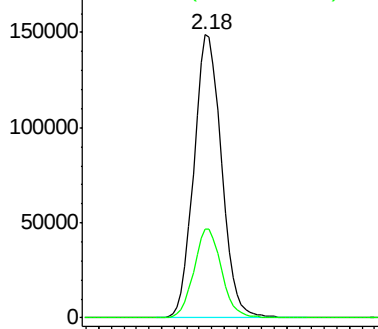
62 100

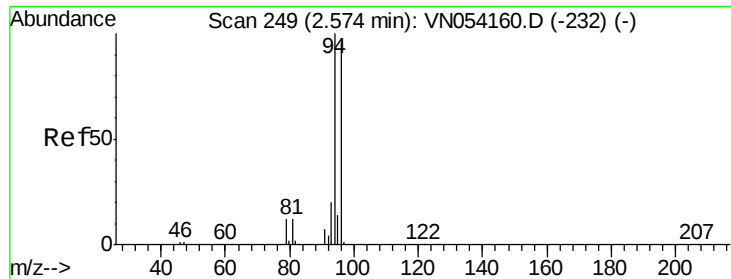
64 31.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

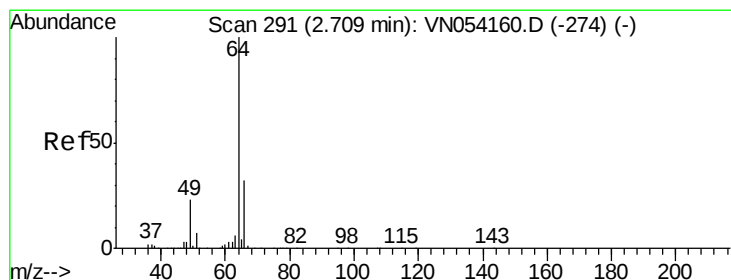
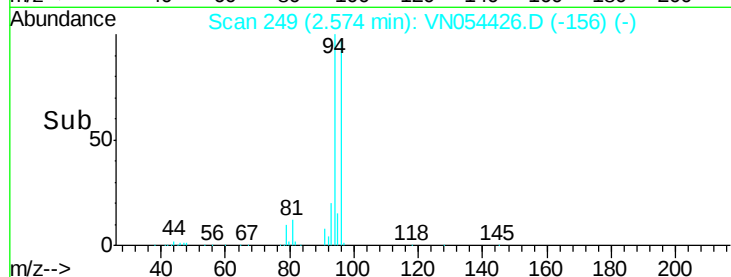
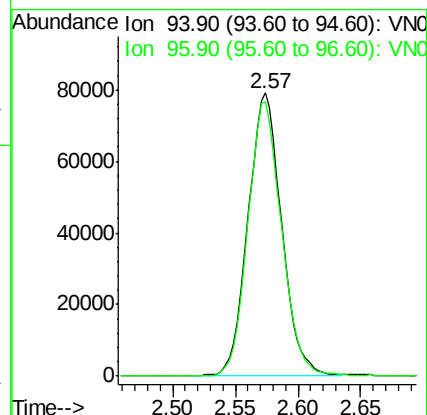
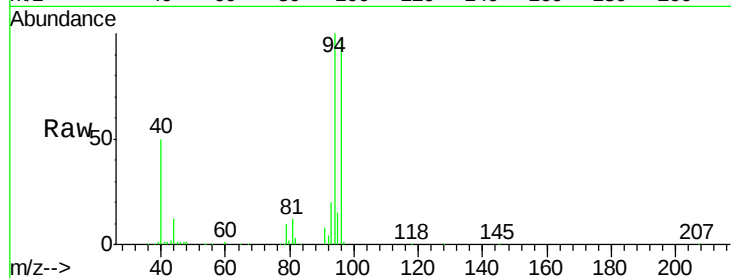




#5
Bromomethane
Concen: 16.878 ug/l
RT: 2.57 min Scan# 249
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

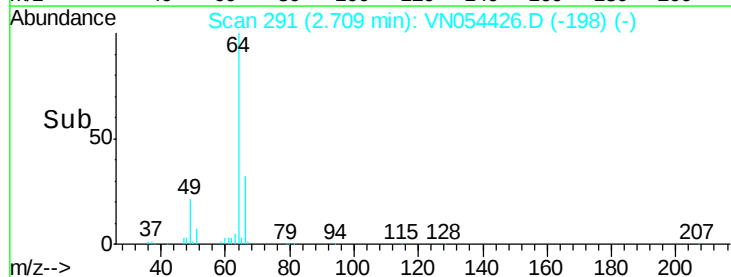
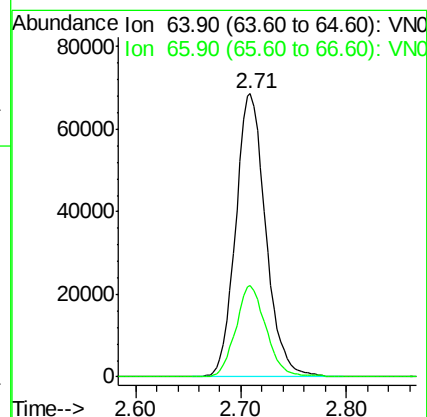
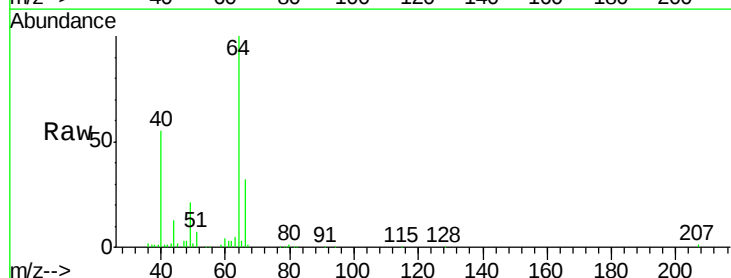
Instrument :
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ClientSampleId :
VN0318MBSD02

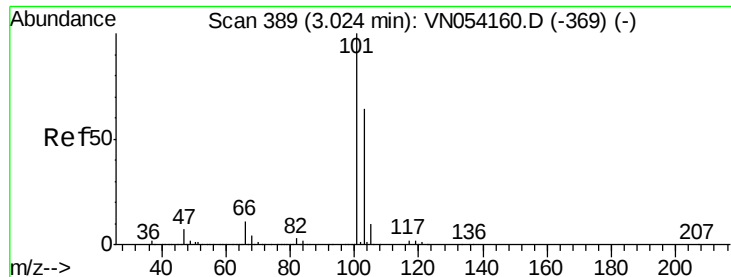
Tot Ion: 94 Resp: 148095
Ion Ratio Lower Upper
94 100
96 96.8 77.0 115.4



#6
Chloroethane
Concen: 17.660 ug/l
RT: 2.71 min Scan# 291
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 64 Resp: 135368
Ion Ratio Lower Upper
64 100
66 32.4 25.7 38.5





#7

Trichlorofluoromethane

Concen: 17.509 ug/l

RT: 3.02 min Scan# 389

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

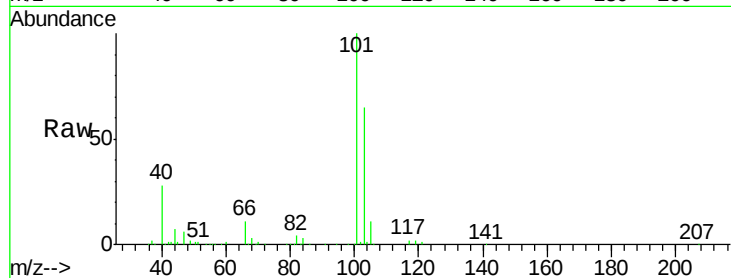
VN0318MBS02

Tot Ion:101 Resp: 294905

Ion Ratio Lower Upper

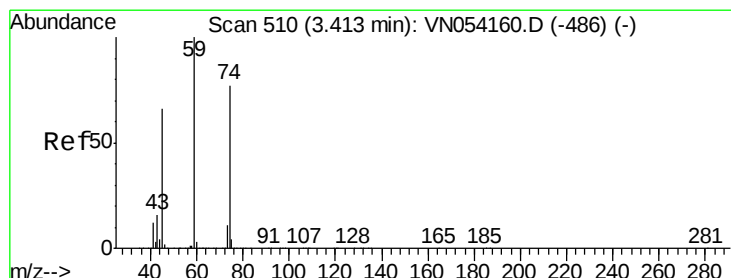
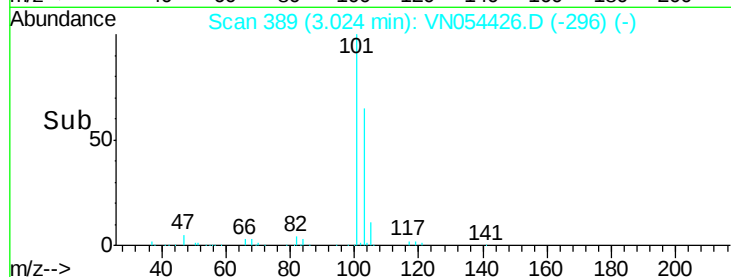
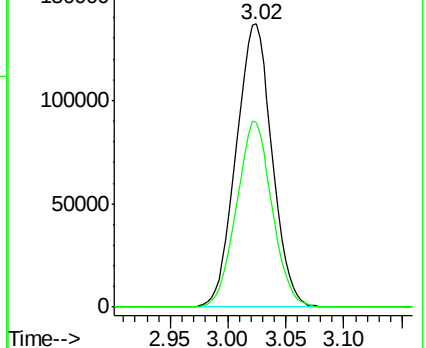
101 100

103 65.4 51.4 77.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 20.227 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN054426.D

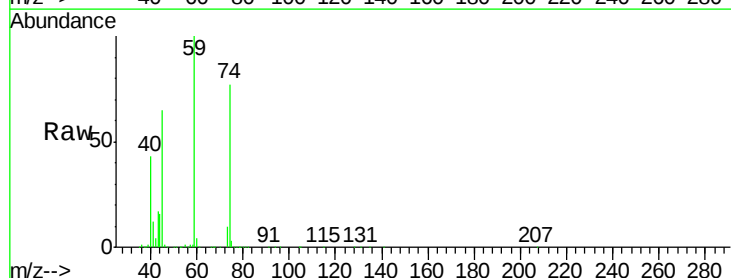
Acq: 19 Mar 2019 6:52

Tgt Ion: 74 Resp: 155254

Ion Ratio Lower Upper

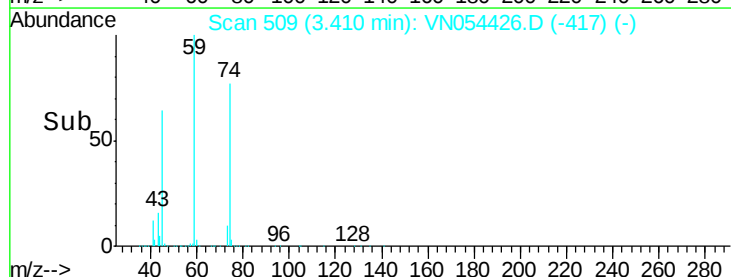
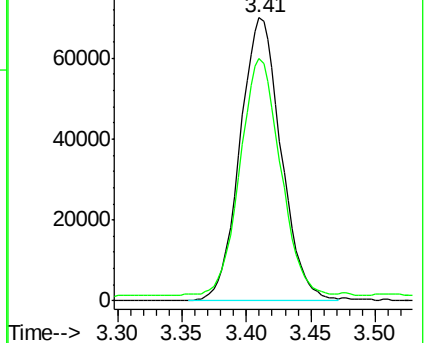
74 100

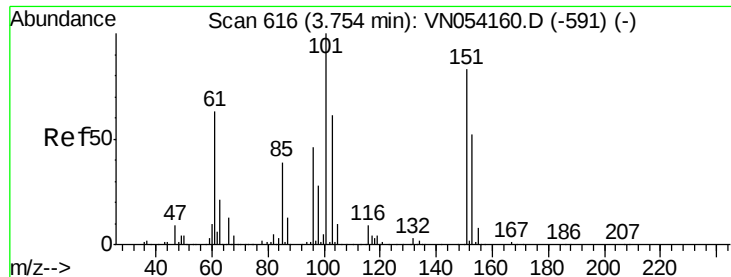
45 82.8 43.1 129.4



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.710 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

VN0318MBSD02

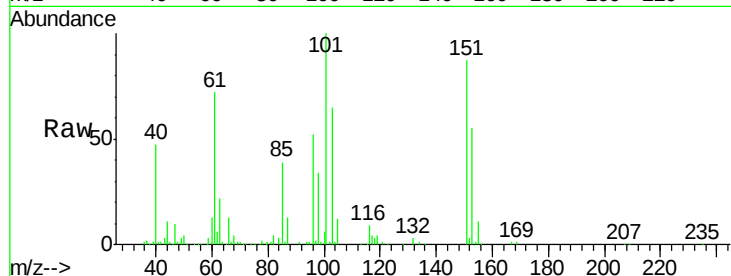
Tot Ion:101 Resp: 236154

Ion Ratio Lower Upper

101 100

85 40.2 32.4 48.6

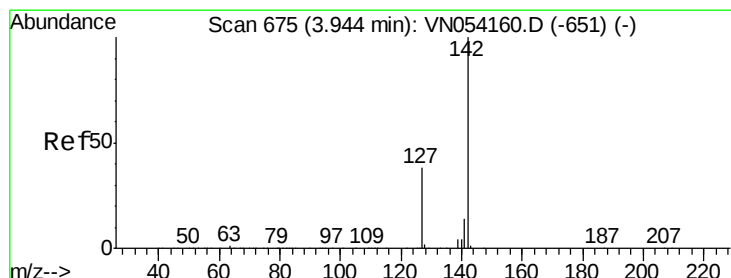
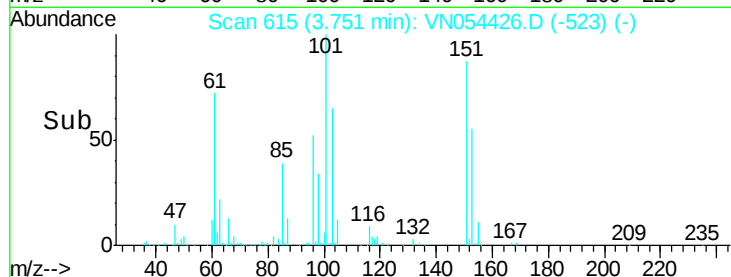
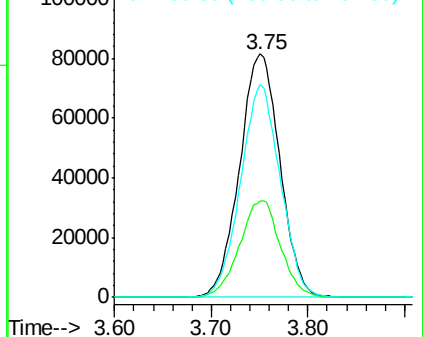
151 86.2 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.488 ug/l

RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

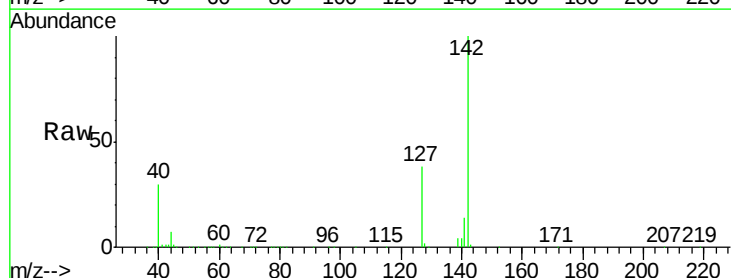
Tgt Ion:142 Resp: 332433

Ion Ratio Lower Upper

142 100

127 37.8 30.3 45.5

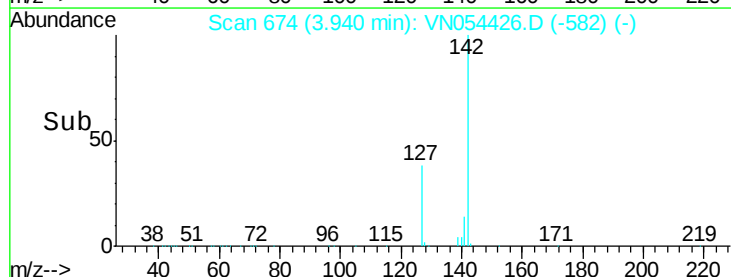
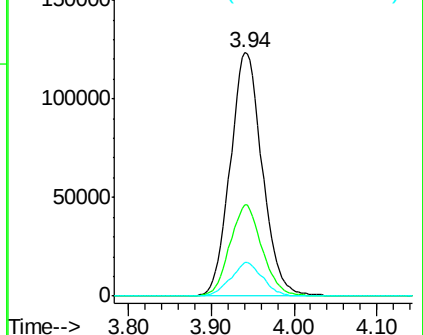
141 13.7 11.2 16.8

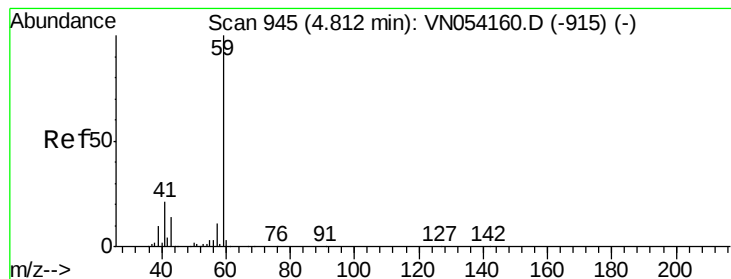


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



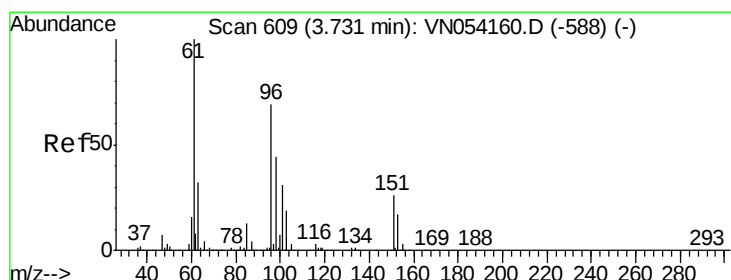
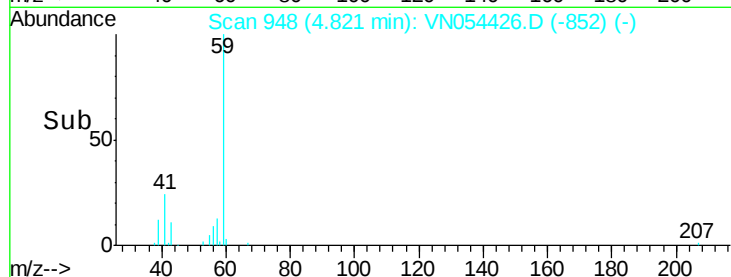
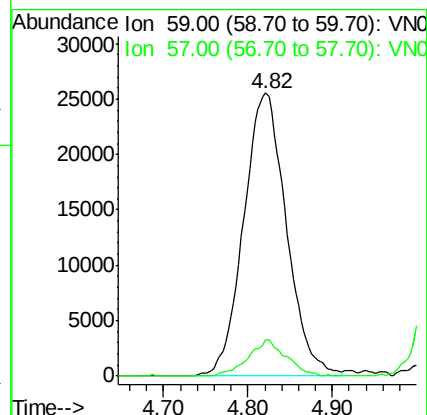
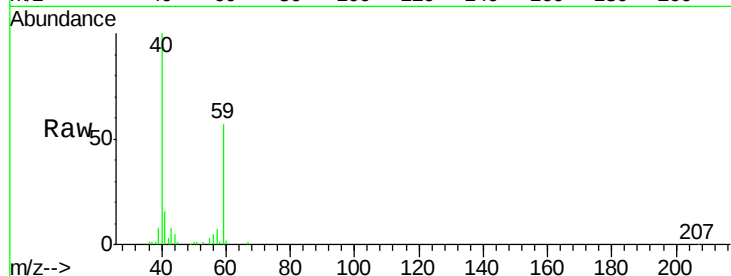


#11

Tert butyl alcohol
 Concen: 102.698 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.01 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

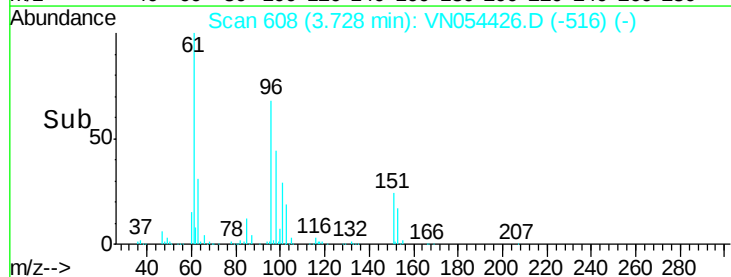
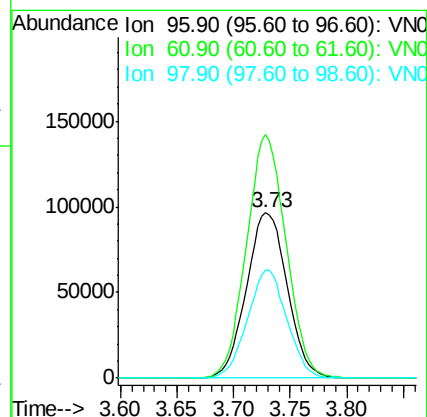
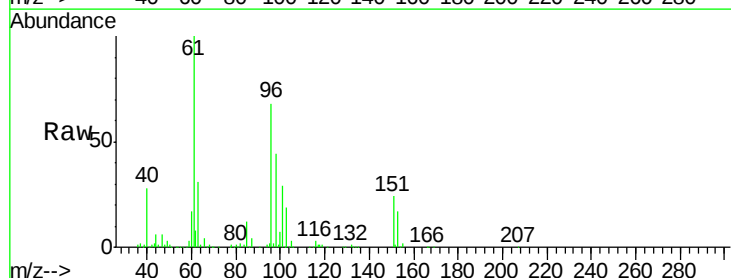
Tot Ion: 59 Resp: 90020
 Ion Ratio Lower Upper
 59 100
 57 11.3 9.0 13.6

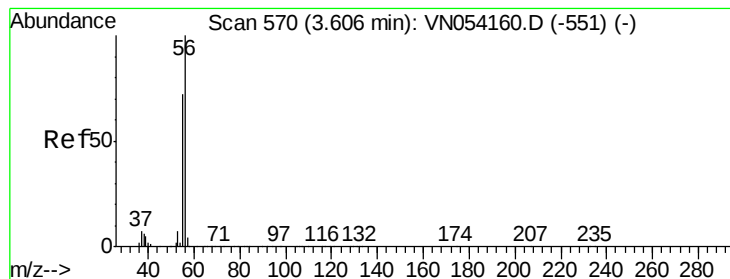


#12

1,1-Dichloroethene
 Concen: 19.407 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion: 96 Resp: 242736
 Ion Ratio Lower Upper
 96 100
 61 147.5 116.5 174.7
 98 65.0 51.0 76.4





#13

Acrolein

Concen: 53.949 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

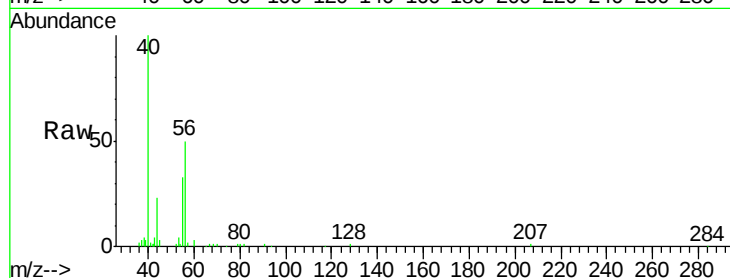
VN0318MBSD02

Tot Ion: 56 Resp: 44811

Ion Ratio Lower Upper

56 100

55 70.0 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

15000

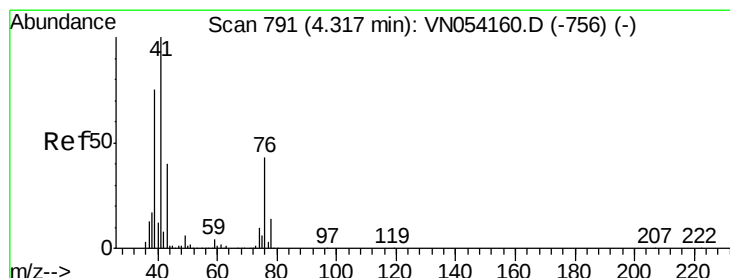
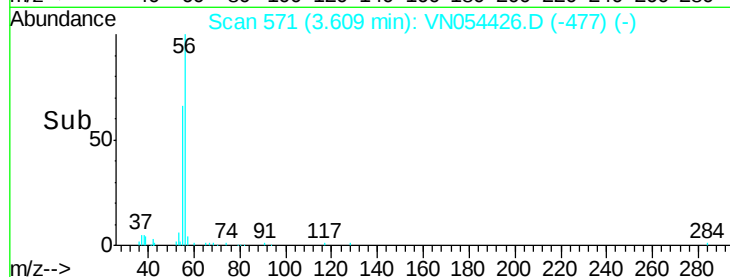
10000

5000

0

3.50 3.55 3.60 3.65 3.70

Time-->



#14

Allyl chloride

Concen: 19.984 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

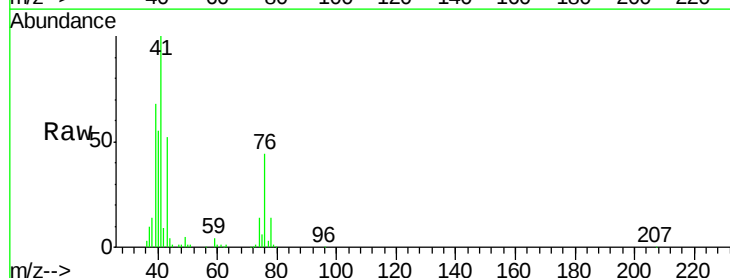
Tgt Ion: 41 Resp: 320700

Ion Ratio Lower Upper

41 100

39 65.4 58.2 87.4

76 41.3 31.7 47.5



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

150000

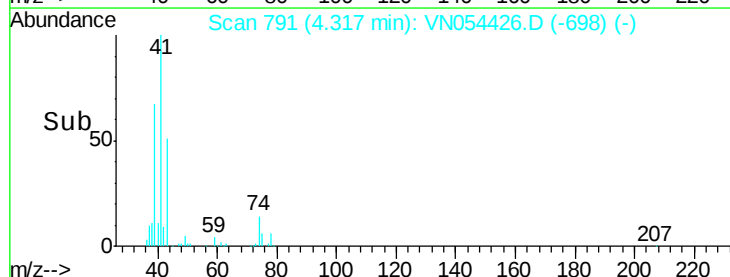
100000

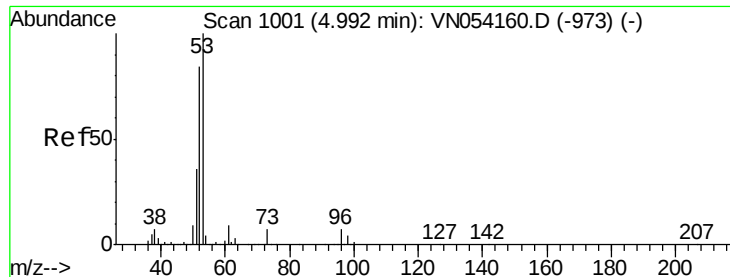
50000

0

4.10 4.20 4.30 4.40 4.50

Time-->





#15

Acrylonitrile

Concen: 123.384 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

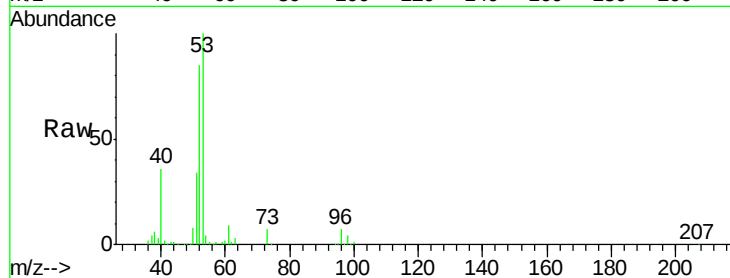
Tot Ion: 53 Resp: 444259

Ion Ratio Lower Upper

53 100

52 81.2 66.4 99.6

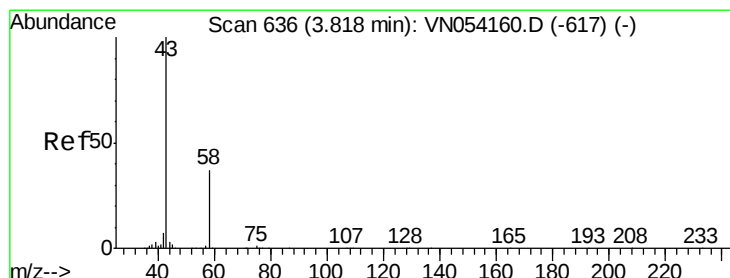
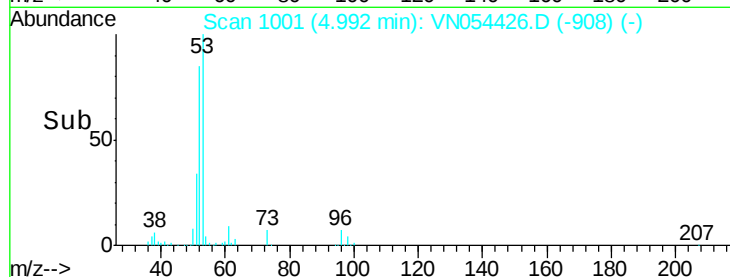
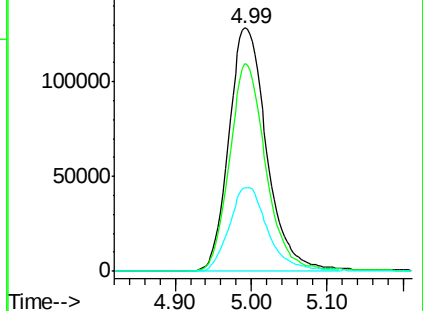
51 35.2 29.6 44.4



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: 74.380 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054426.D

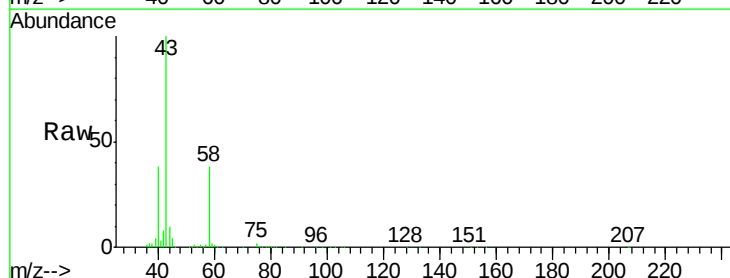
Acq: 19 Mar 2019 6:52

Tgt Ion: 43 Resp: 272306

Ion Ratio Lower Upper

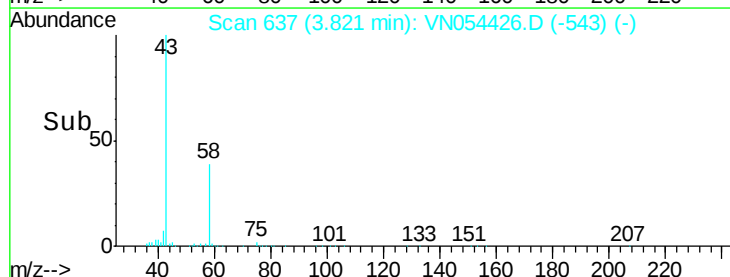
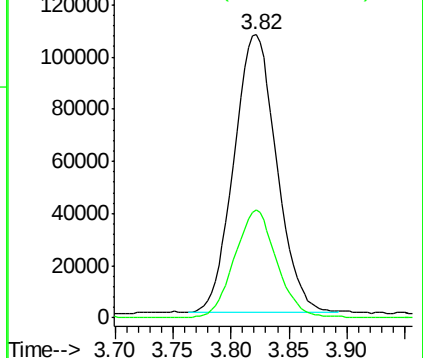
43 100

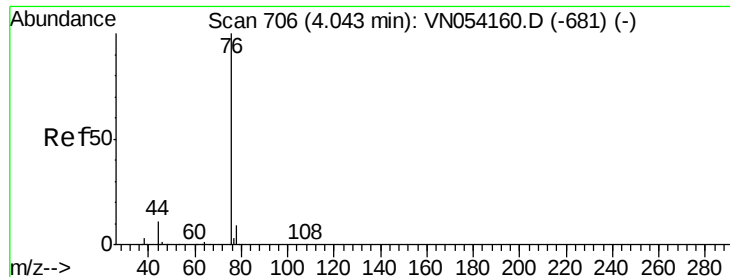
58 38.5 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

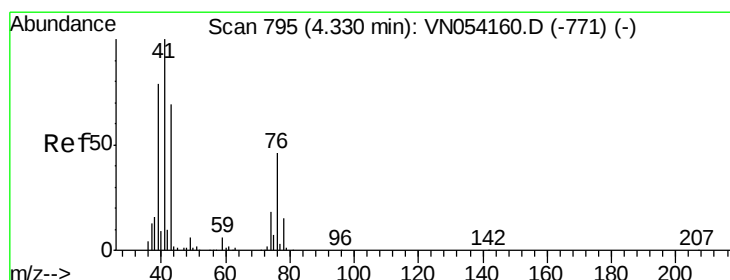
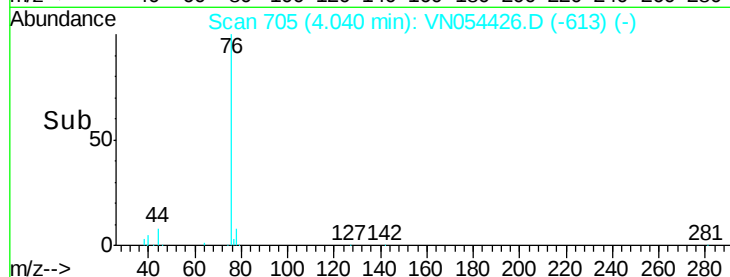
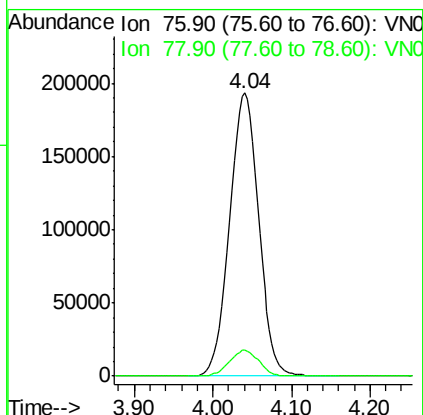
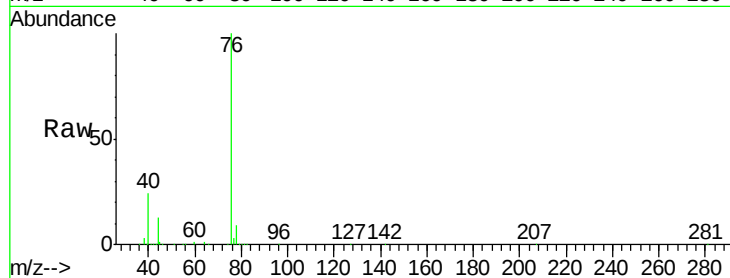




#17
Carbon Disulfide
Concen: 15.866 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

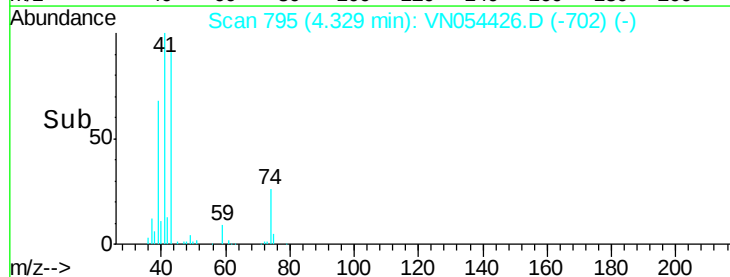
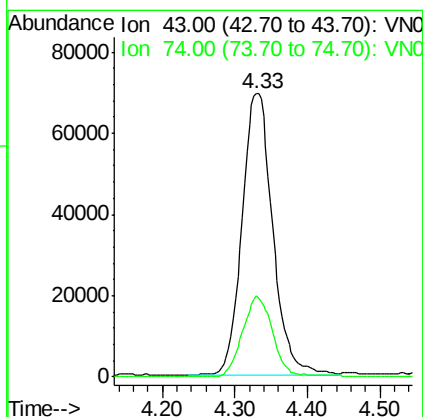
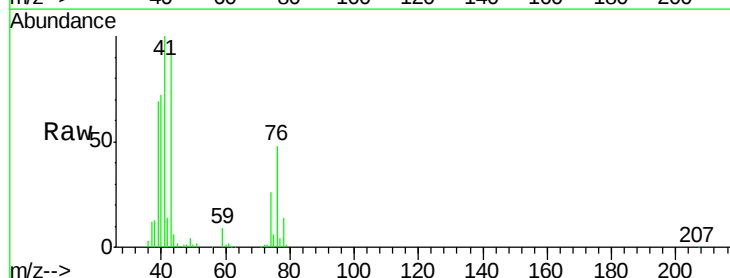
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

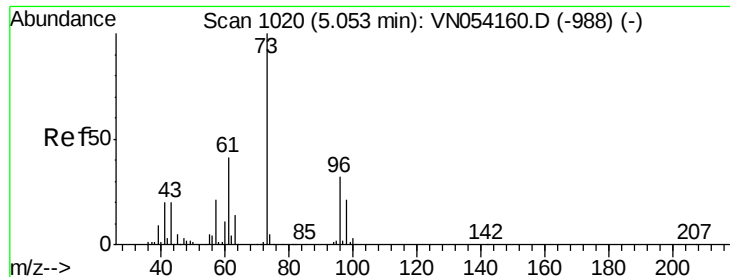
Tot Ion: 76 Resp: 497490
Ion Ratio Lower Upper
76 100
78 9.3 7.5 11.3



#18
Methyl Acetate
Concen: 27.762 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 43 Resp: 205629
Ion Ratio Lower Upper
43 100
74 27.4 20.8 31.2

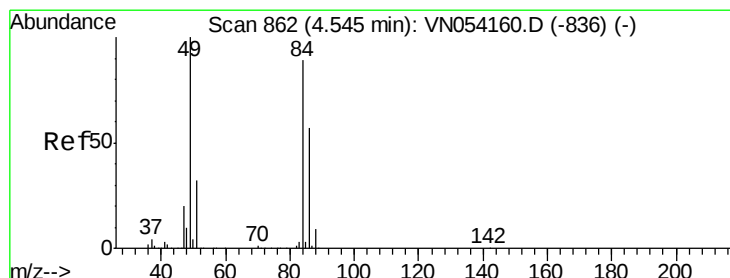
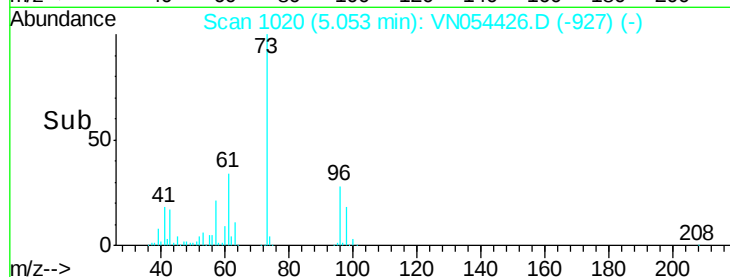
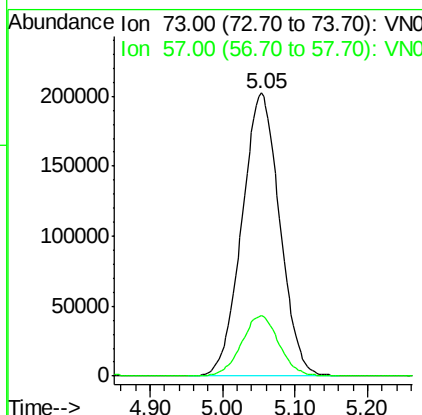
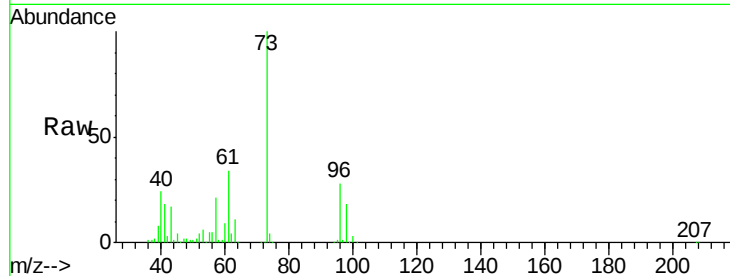




#19
Methyl tert-butyl Ether
Concen: 23.671 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

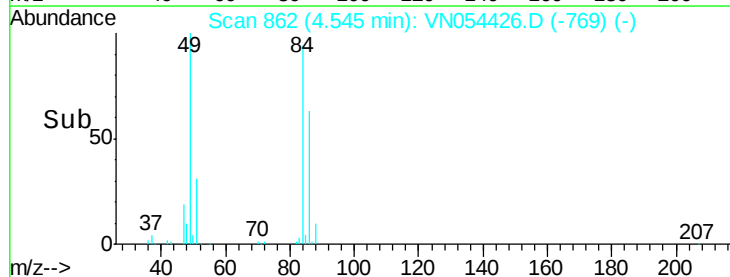
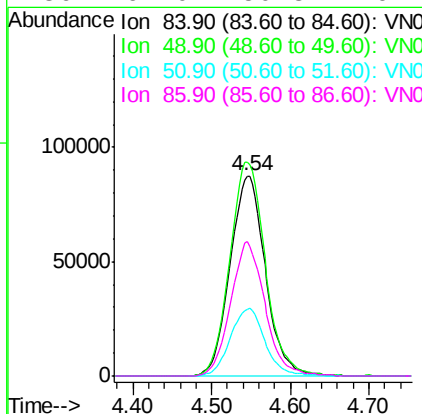
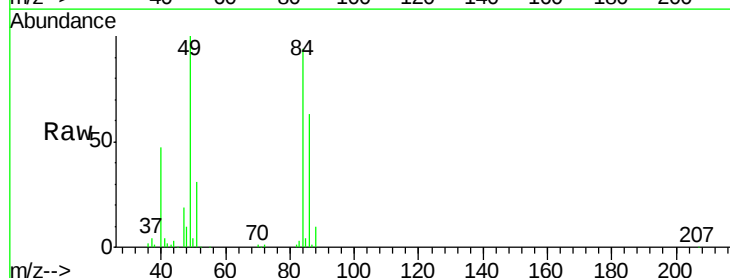
Instrument :
MSVOA_N
ClientSampled :
VN0318MBSD02

Tot Ion: 73 Resp: 733885
Ion Ratio Lower Upper
73 100
57 21.4 16.8 25.2



#20
Methylene Chloride
Concen: 22.777 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 84 Resp: 273798
Ion Ratio Lower Upper
84 100
49 106.7 89.7 134.5
51 33.6 28.2 42.4
86 67.0 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.452 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

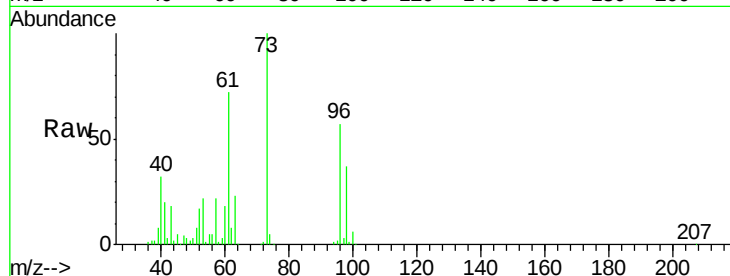
Tot Ion: 96 Resp: 257091

Ion Ratio Lower Upper

96 100

61 125.7 102.8 154.2

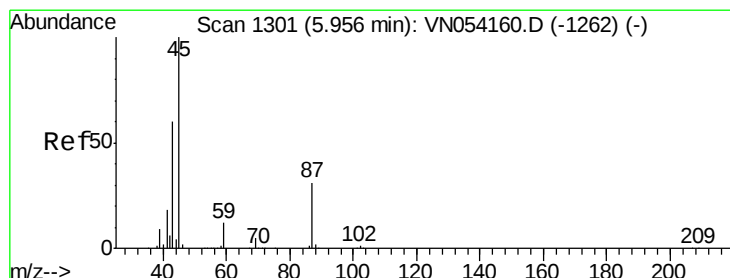
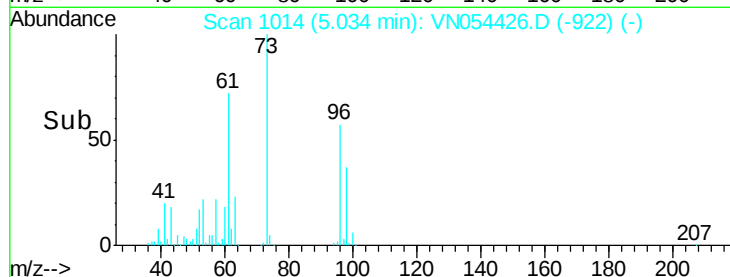
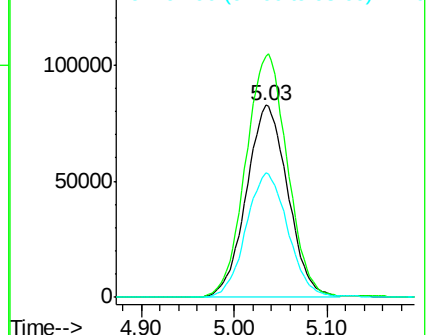
98 64.7 50.0 75.0



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: 22.963 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion: 45 Resp: 735484

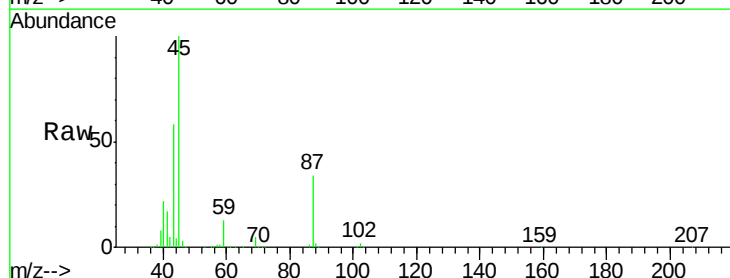
Ion Ratio Lower Upper

45 100

43 56.9 48.2 72.2

87 33.8 24.9 37.3

59 12.8 9.5 14.3

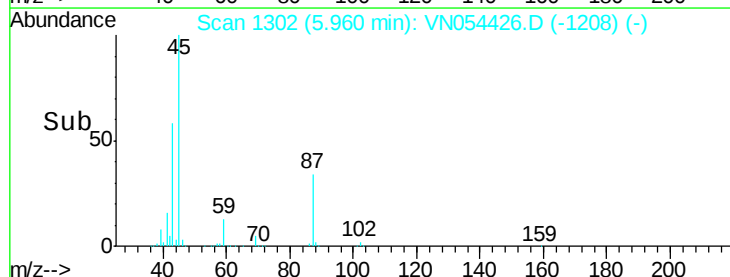
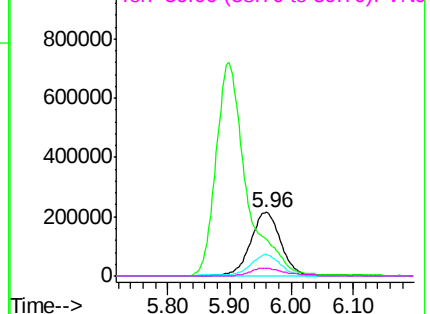


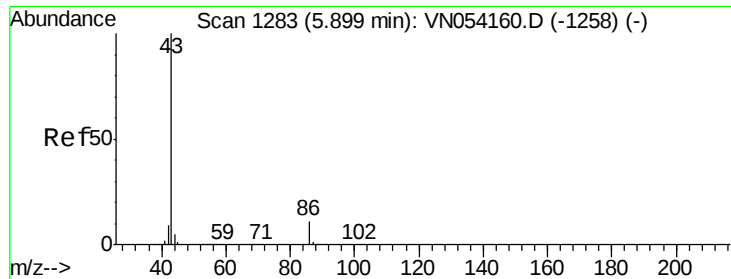
Abundance Ion 45.00 (44.70 to 45.70): VN0

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: 103.905 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

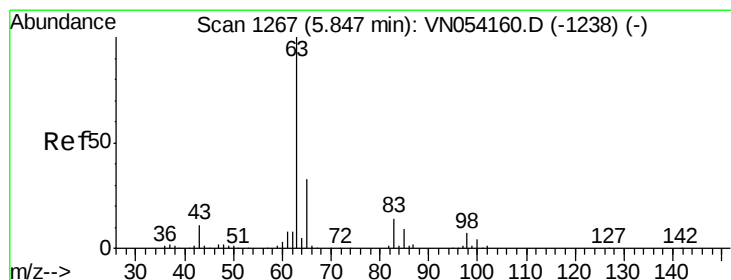
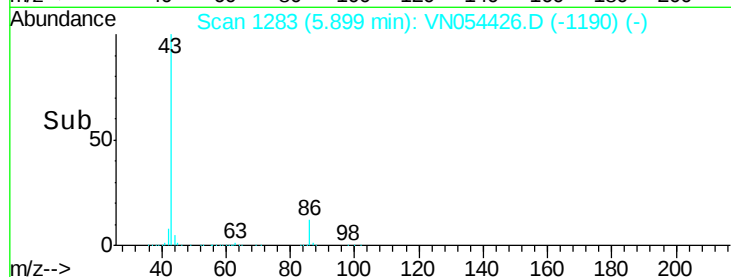
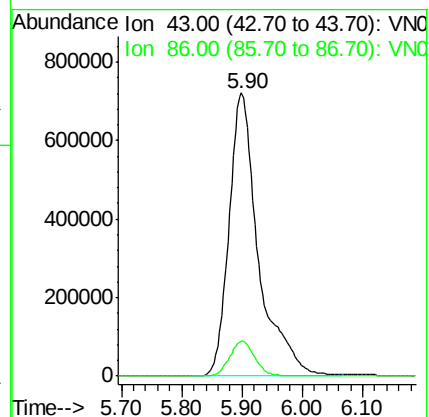
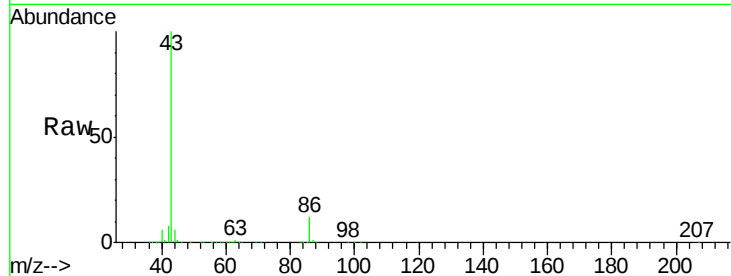
VN0318MBSD02

Tot Ion: 43 Resp: 2453761

Ion Ratio Lower Upper

43 100

86 12.2 9.1 13.7



#24

1,1-Dichloroethane

Concen: 22.786 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

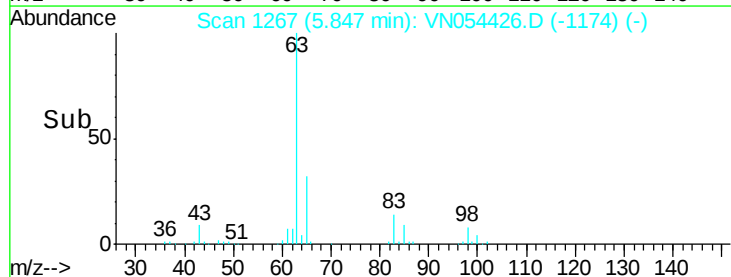
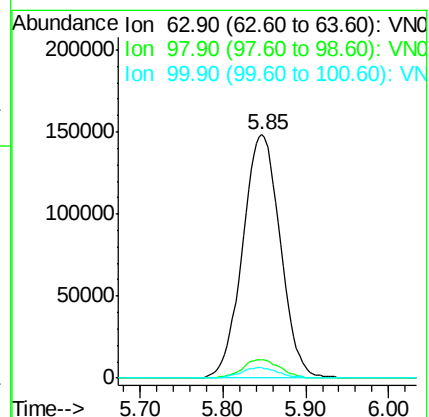
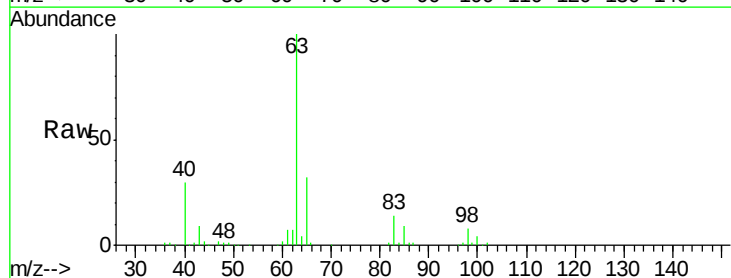
Tgt Ion: 63 Resp: 468603

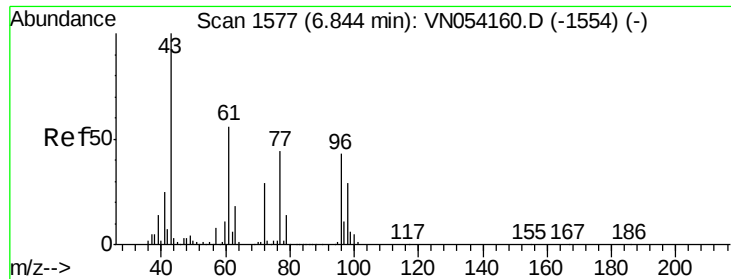
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.5

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 111.566 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

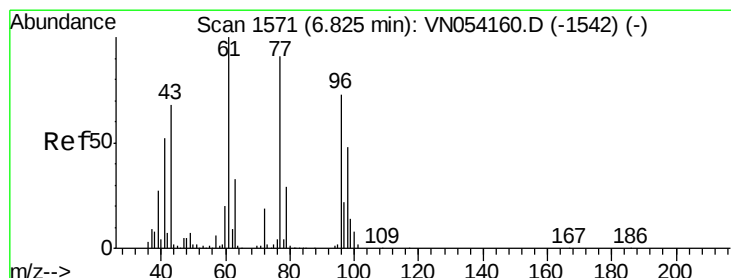
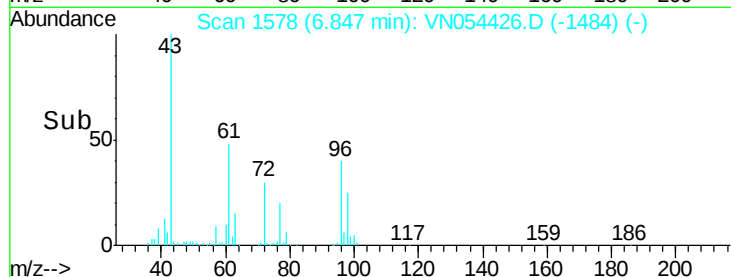
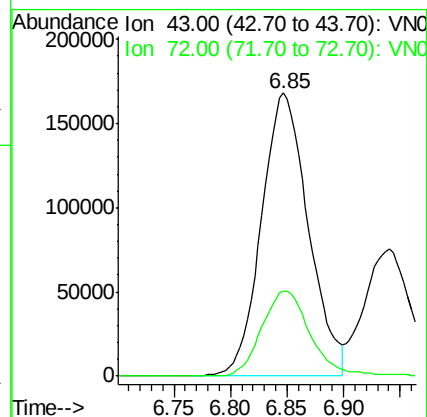
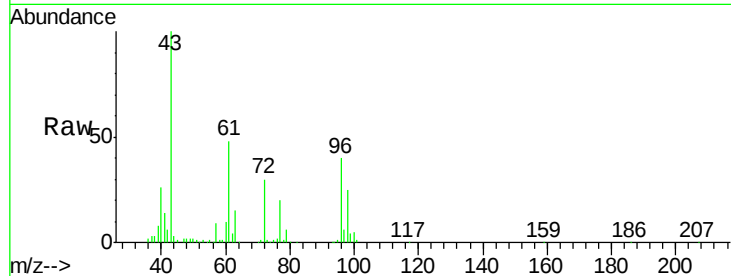
VN0318MBSD02

Tot Ion: 43 Resp: 479386

Ion Ratio Lower Upper

43 100

72 30.1 23.0 34.6



#26

2,2-Dichloropropane

Concen: 11.380 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054426.D

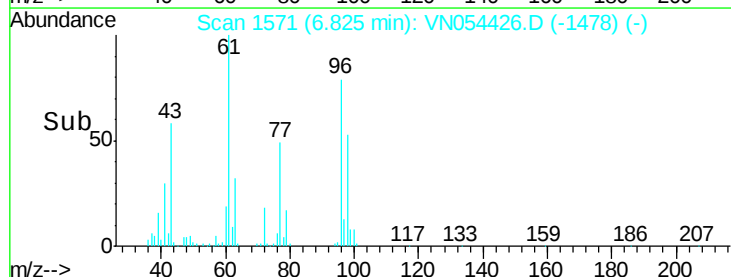
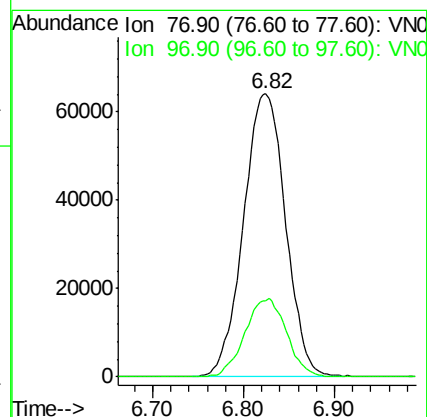
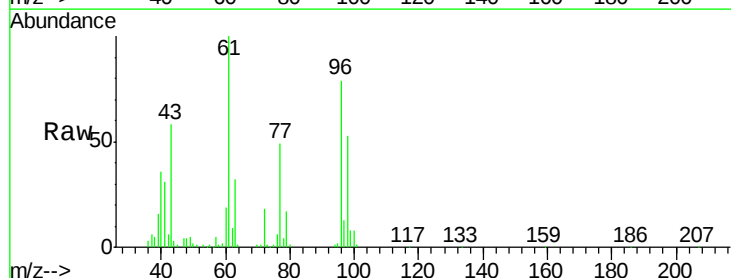
Acq: 19 Mar 2019 6:52

Tgt Ion: 77 Resp: 205817

Ion Ratio Lower Upper

77 100

97 27.4 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 23.035 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

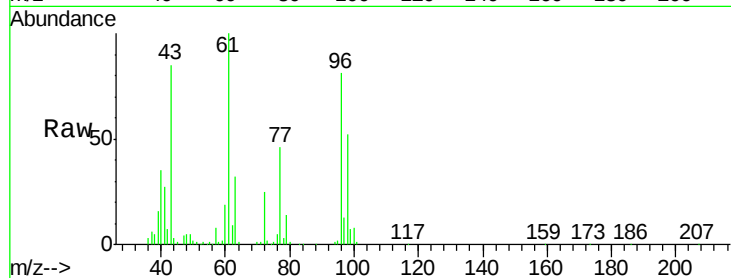
Tot Ion: 96 Resp: 307971

Ion Ratio Lower Upper

96 100

61 125.8 0.0 273.0

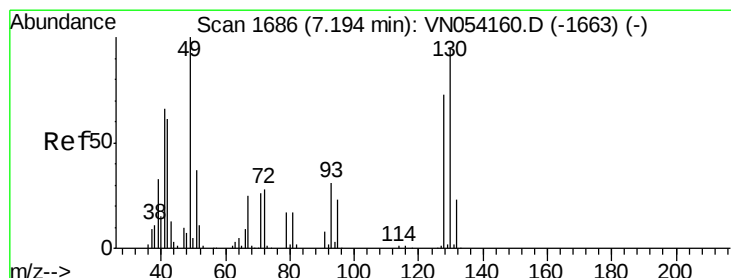
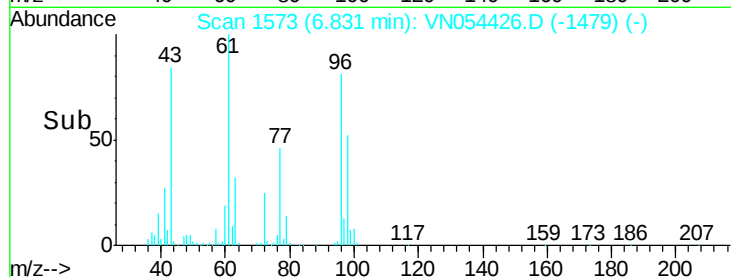
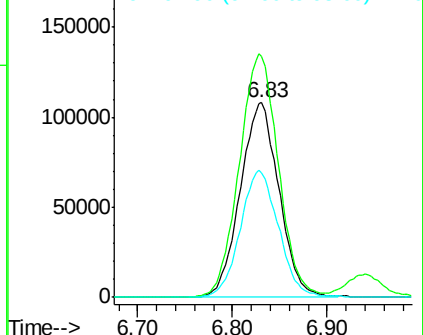
98 64.6 0.0 130.6



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



#28

Bromochloromethane

Concen: 21.446 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

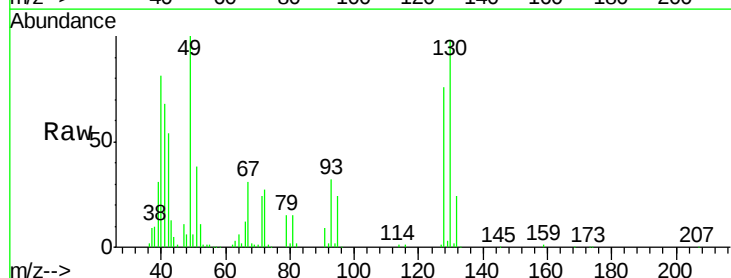
Tgt Ion: 49 Resp: 180302

Ion Ratio Lower Upper

49 100

129 2.5 0.0 4.6

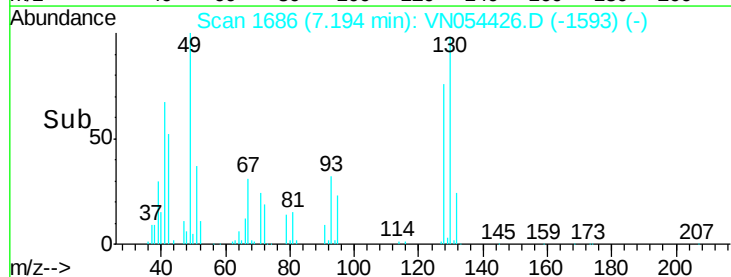
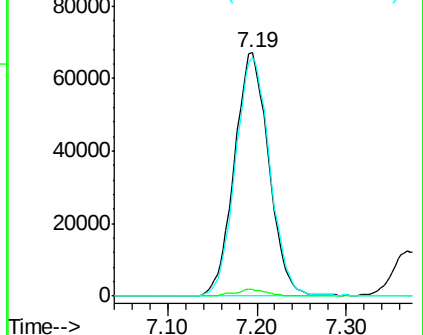
130 98.1 76.7 115.1

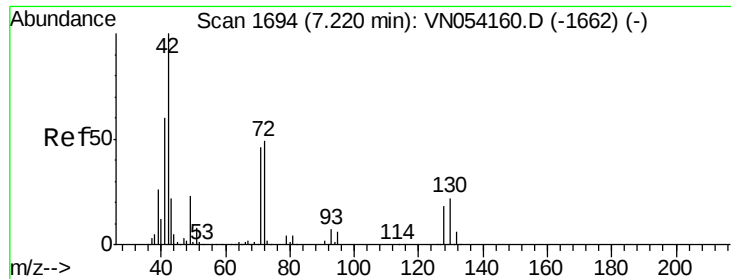


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

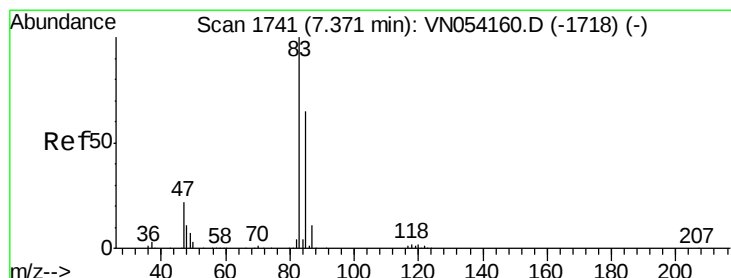
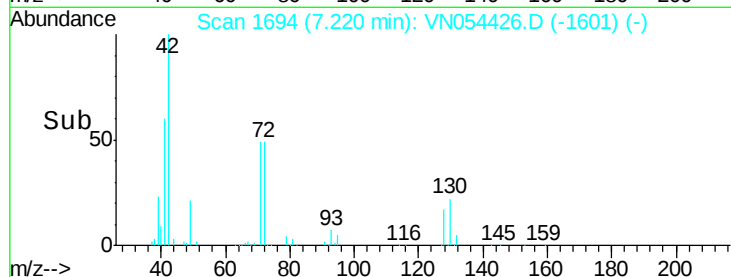
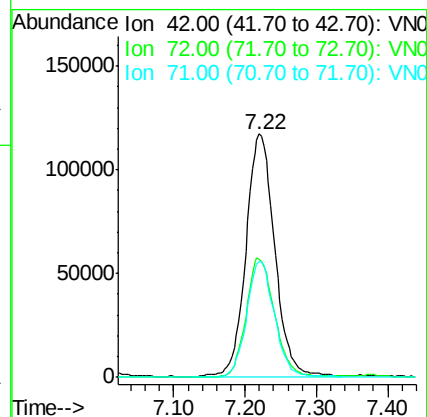
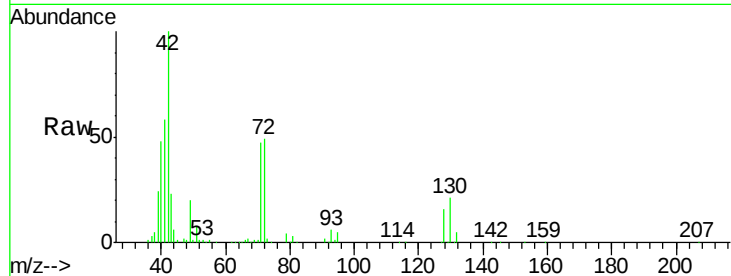




#29
Tetrahydrofuran
Concen: 119.150 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

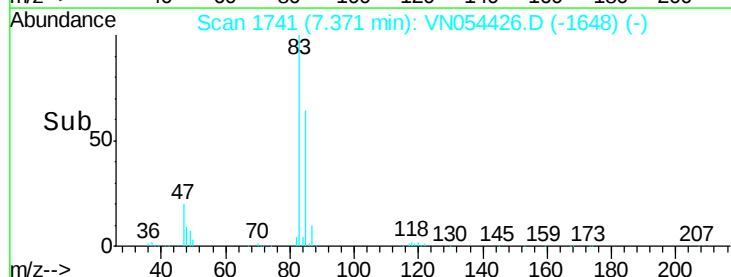
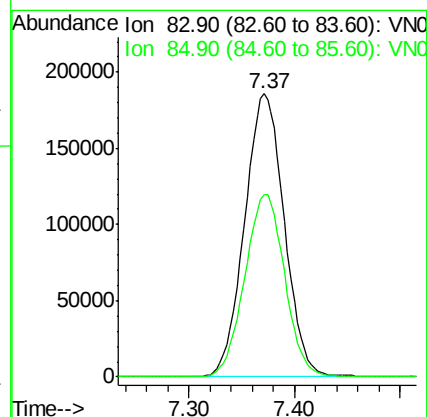
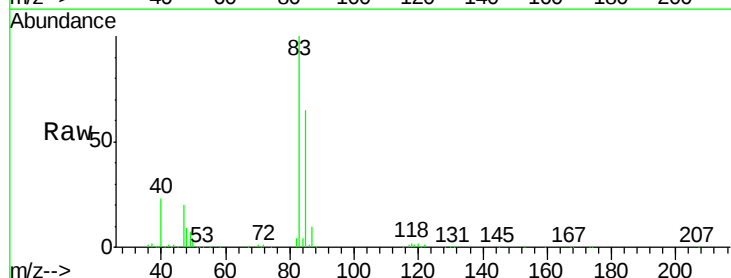
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBS02

Tot Ion: 42 Resp: 329181
Ion Ratio Lower Upper
42 100
72 48.7 37.8 56.6
71 46.3 36.2 54.2



#30
Chloroform
Concen: 22.632 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 83 Resp: 485674
Ion Ratio Lower Upper
83 100
85 64.5 52.2 78.4

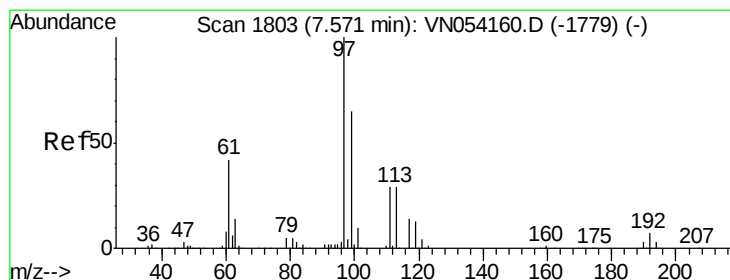
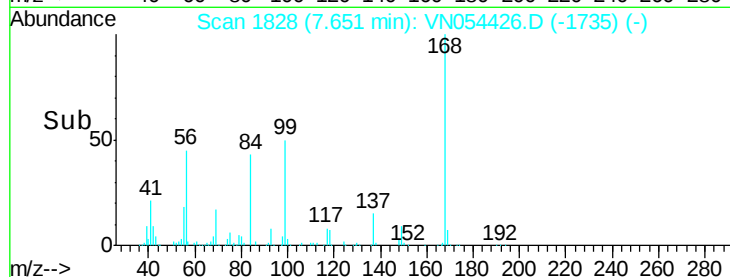
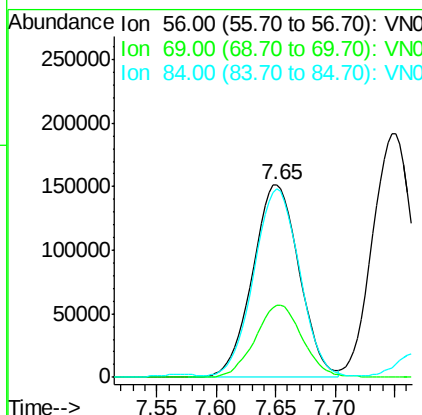
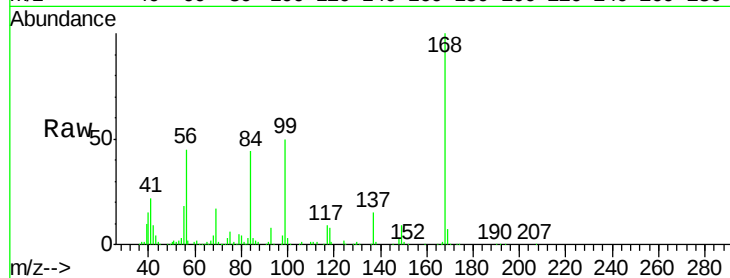




#31
Cyclohexane
Concen: 20.656 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

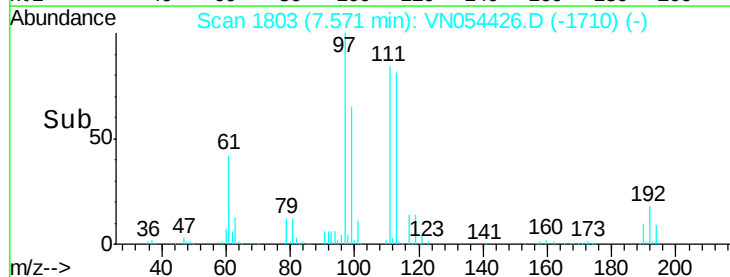
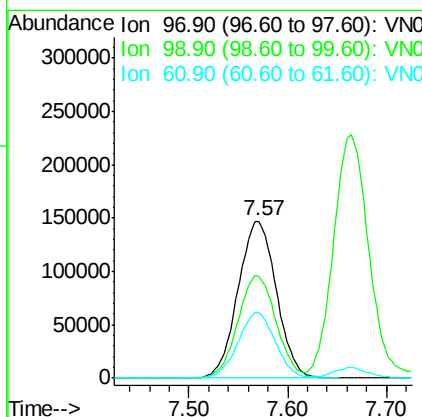
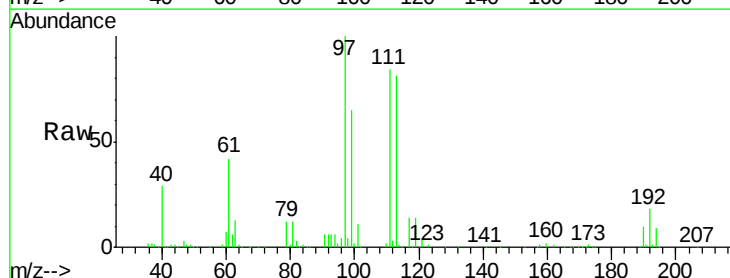
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

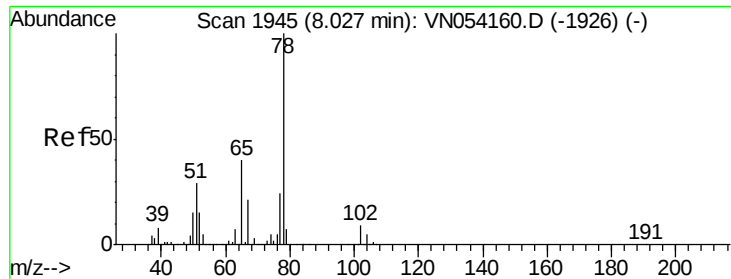
Tot Ion: 56 Resp: 411009
Ion Ratio Lower Upper
56 100
69 37.1 27.8 41.6
84 96.4 74.6 111.8



#32
1,1,1-Trichloroethane
Concen: 20.396 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 97 Resp: 395297
Ion Ratio Lower Upper
97 100
99 65.1 51.5 77.3
61 40.8 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 51.015 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

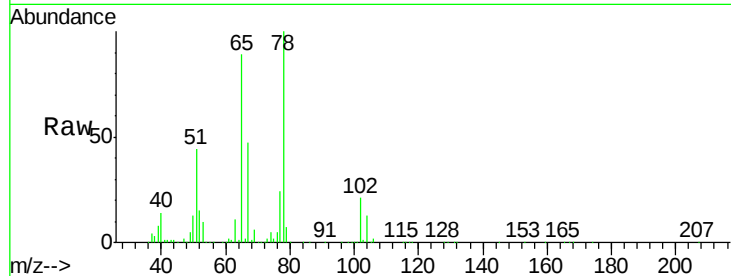
VN0318MBSD02

Tot Ion: 65 Resp: 652289

Ion Ratio Lower Upper

65 100

67 54.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

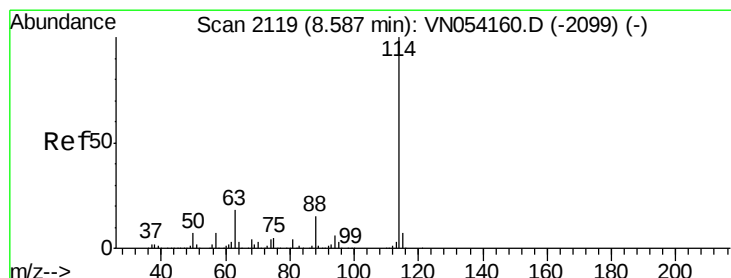
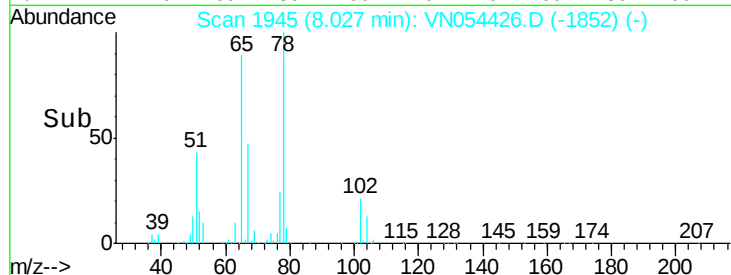
300000

200000

100000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

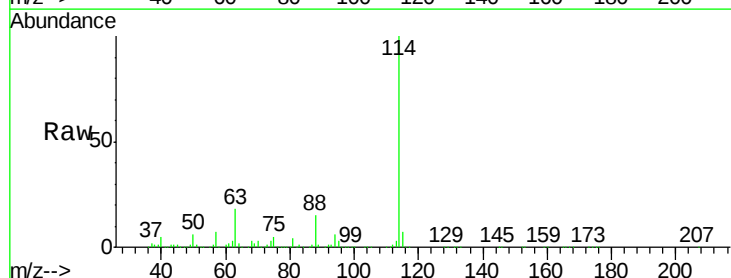
Tgt Ion: 114 Resp: 1982150

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

88 14.8 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

1200000

1000000

800000

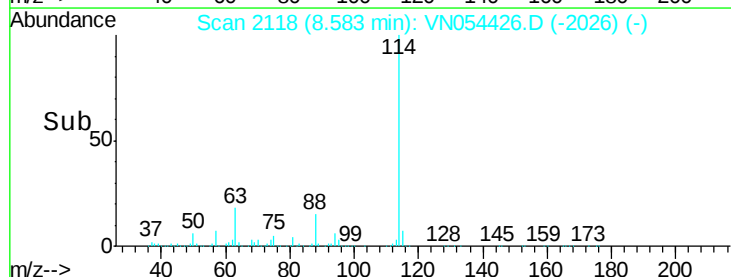
600000

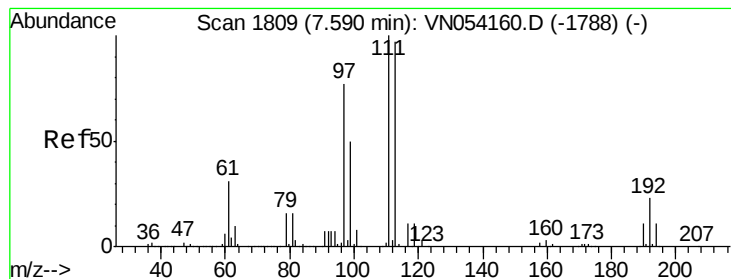
400000

200000

0

Time--> 8.50 8.60 8.70 8.80





#35

Dibromofluoromethane

Concen: 48.988 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

VN0318MBSD02

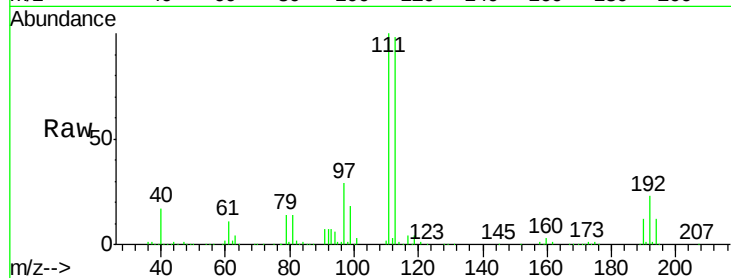
Tot Ion:113 Resp: 626263

Ion Ratio Lower Upper

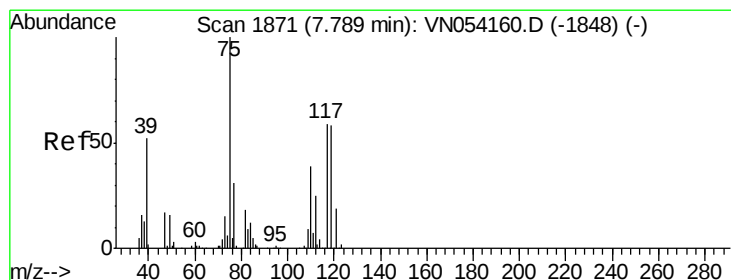
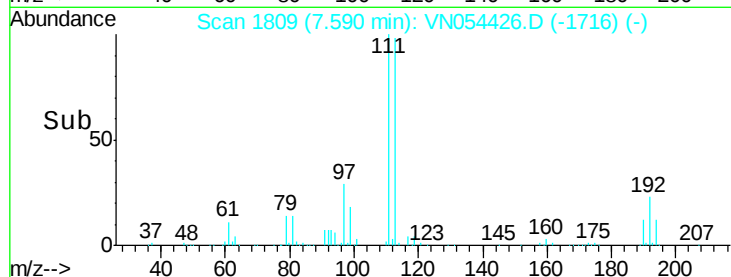
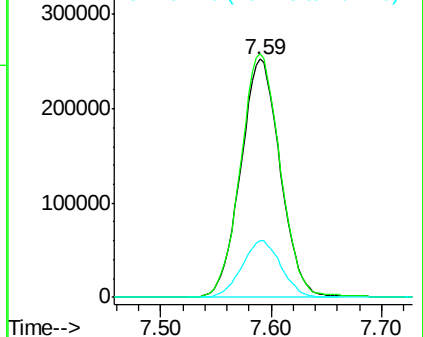
113 100

111 103.0 82.2 123.4

192 23.7 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 18.908 ug/l

RT: 7.79 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

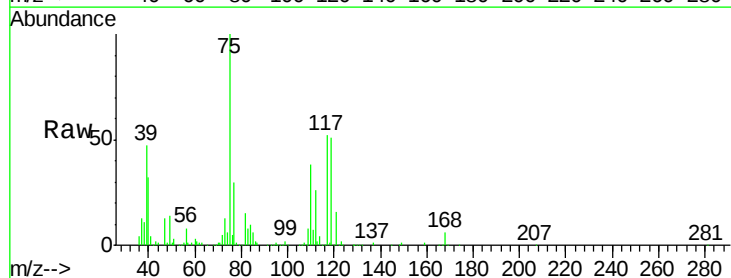
Tgt Ion: 75 Resp: 345143

Ion Ratio Lower Upper

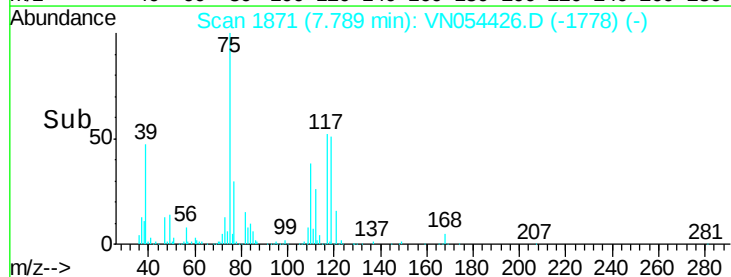
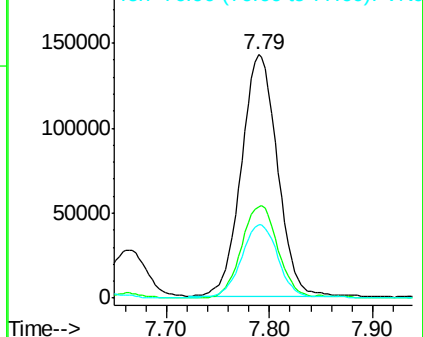
75 100

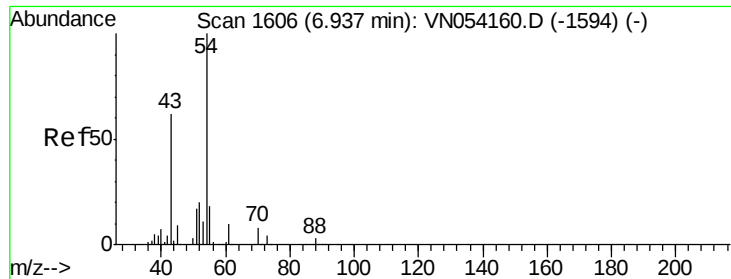
110 38.9 19.1 57.5

77 31.4 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

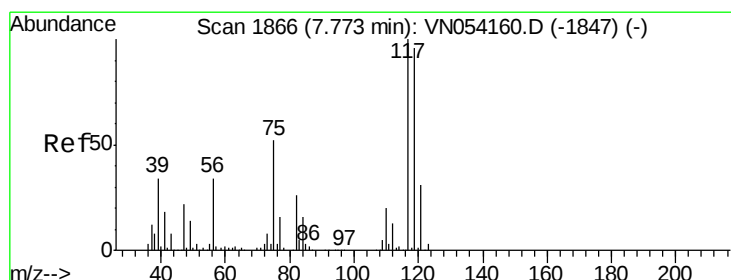
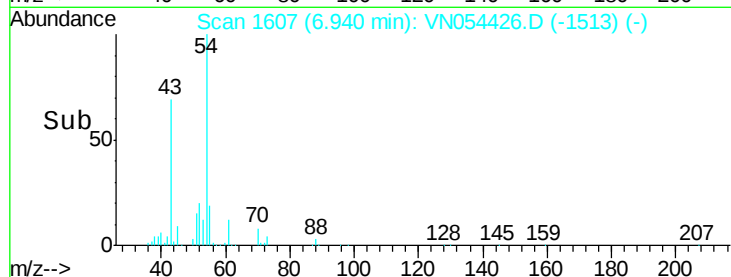
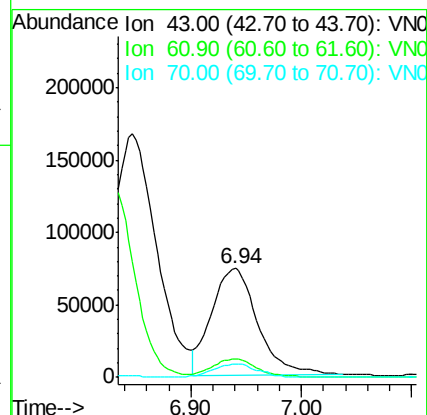
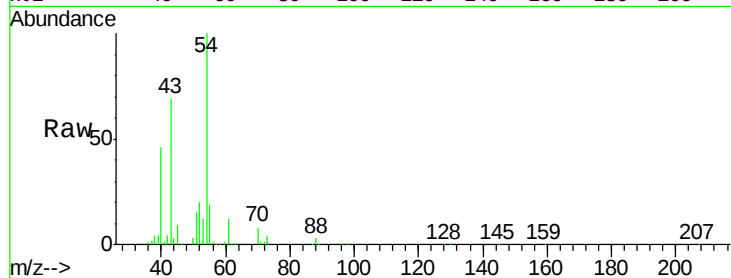




#37
Ethyl Acetate
Concen: 20.314 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

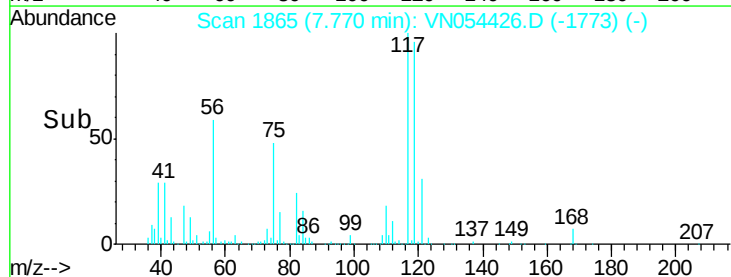
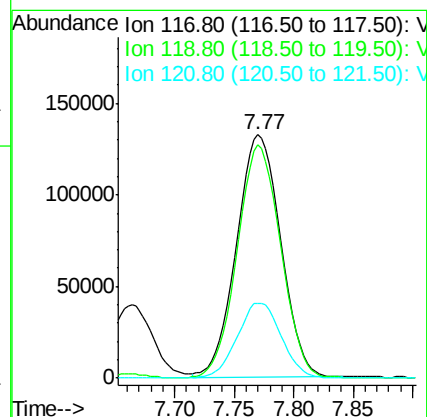
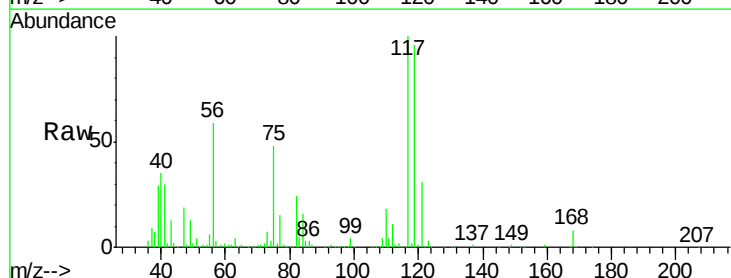
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

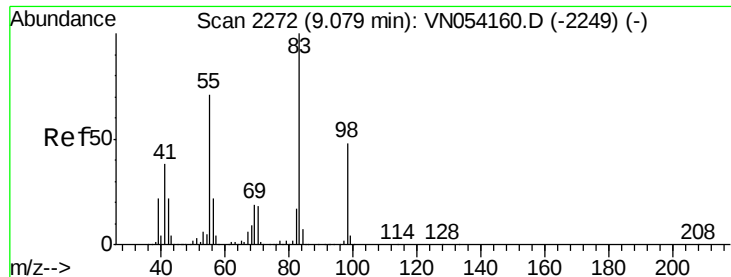
Tot Ion: 43 Resp: 213059
Ion Ratio Lower Upper
43 100
61 16.7 11.8 17.6
70 12.2 8.4 12.6



#38
Carbon Tetrachloride
Concen: 17.778 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 117 Resp: 340321
Ion Ratio Lower Upper
117 100
119 96.2 76.3 114.5
121 31.1 24.6 36.8

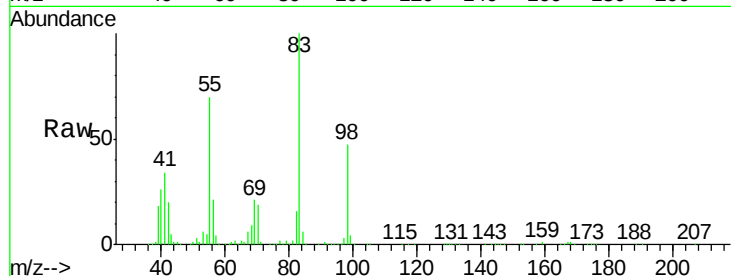




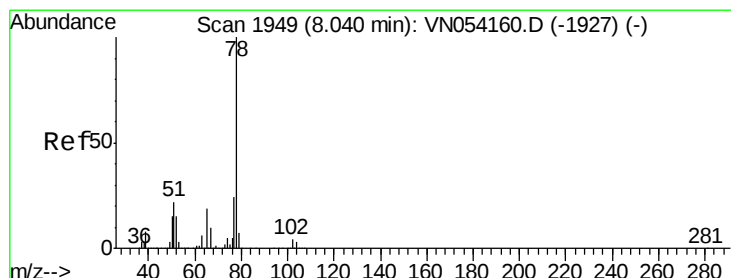
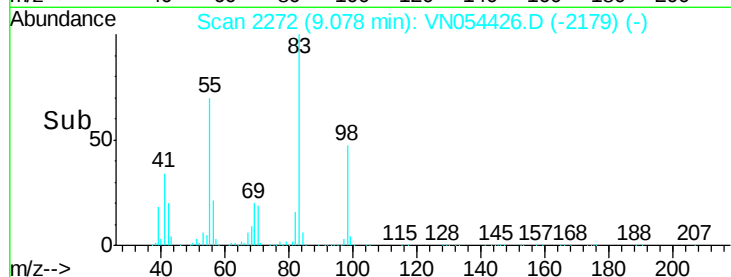
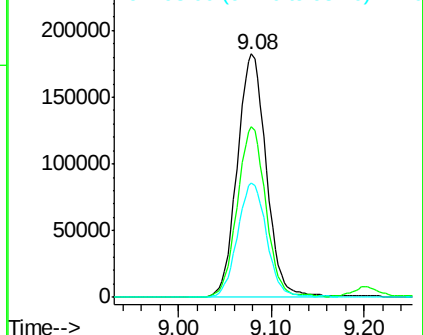
#39
Methvlcvclohexane
Concen: 17.528 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion: 83 Resp: 393654
Ion Ratio Lower Upper
83 100
55 70.0 56.6 84.8
98 47.0 38.4 57.6

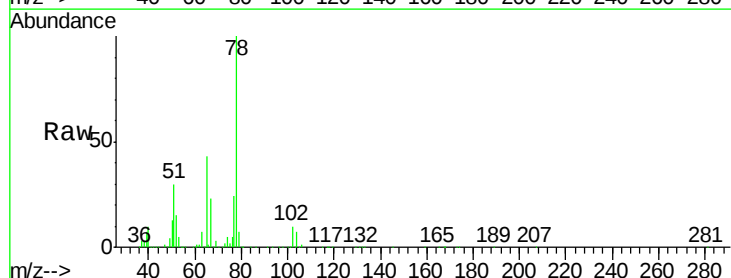


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

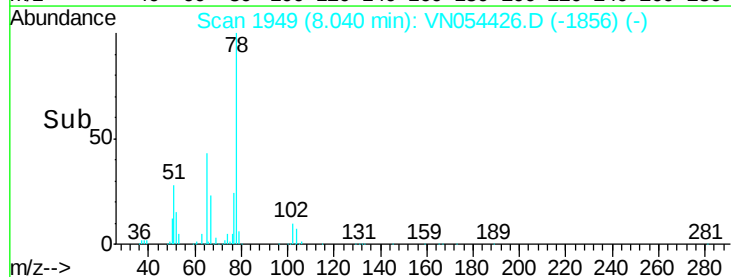
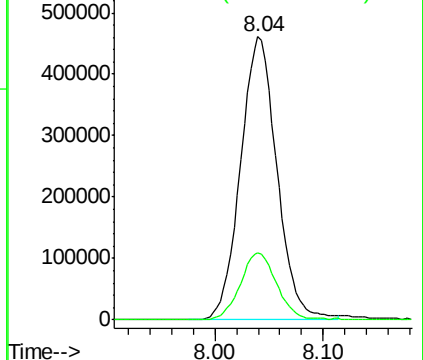


#40
Benzene
Concen: 20.714 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 78 Resp: 1081987
Ion Ratio Lower Upper
78 100
77 23.7 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

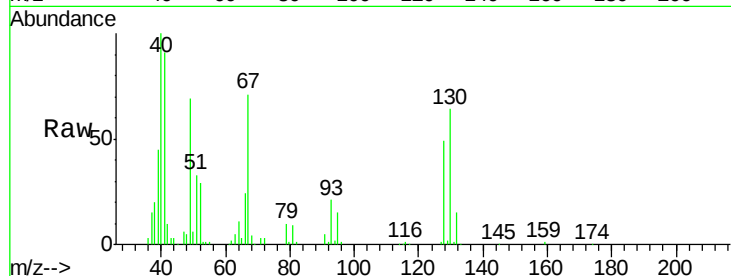




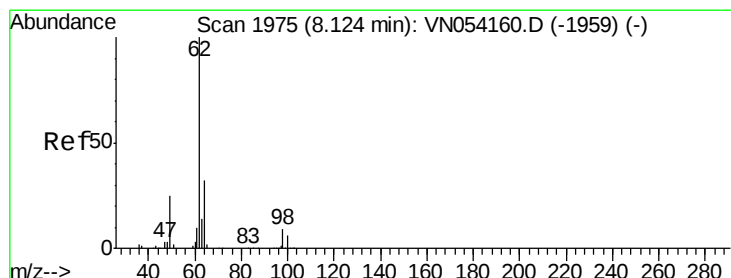
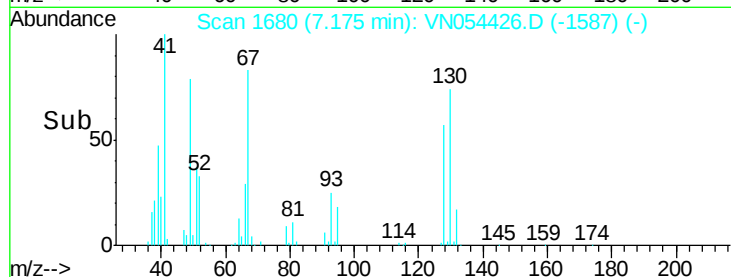
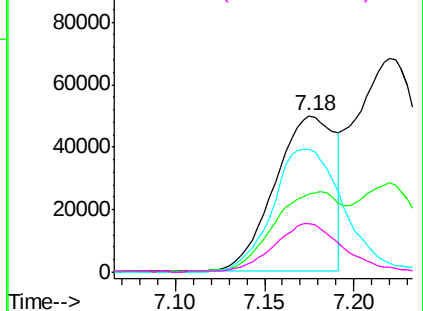
#41
Methacrylonitrile
Concen: 19.488 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampled :
VN0318MBSD02

Tot Ion: 41 Resp: 116706
Ion Ratio Lower Upper
41 100
39 57.1 46.8 70.2
67 94.9 67.0 100.4
52 37.0 26.5 39.7

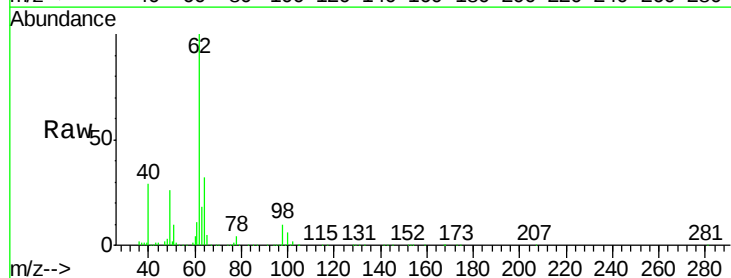


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

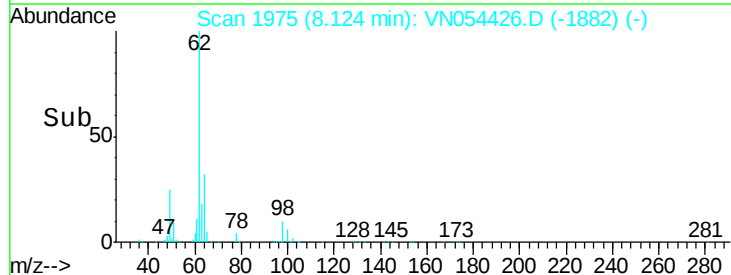
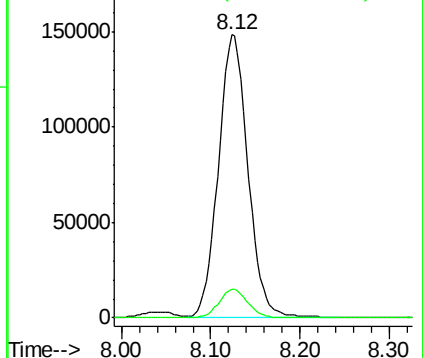


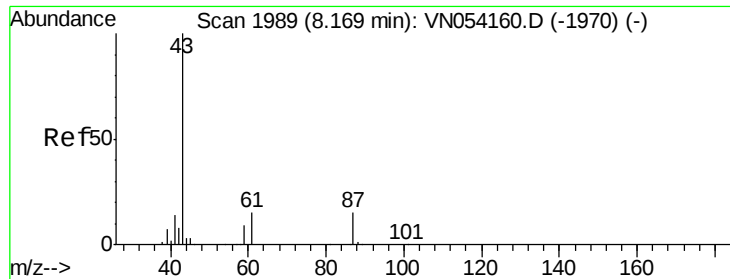
#42
1,2-Dichloroethane
Concen: 19.218 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 62 Resp: 338925
Ion Ratio Lower Upper
62 100
98 9.9 0.0 18.4



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



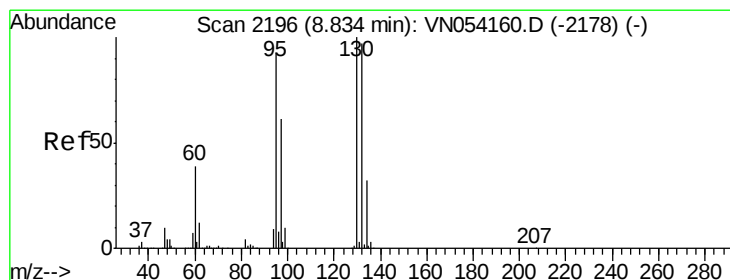
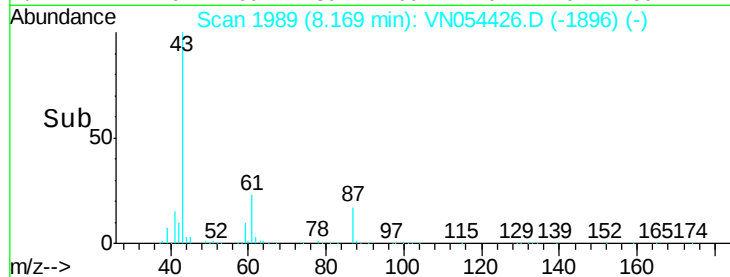
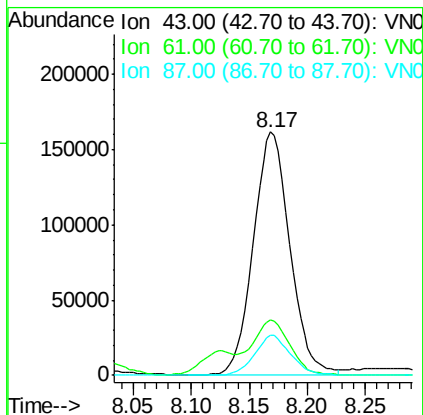
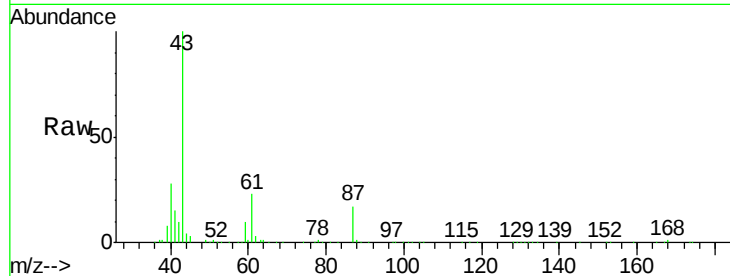


#43

Isopropyl Acetate
 Concen: 19.244 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

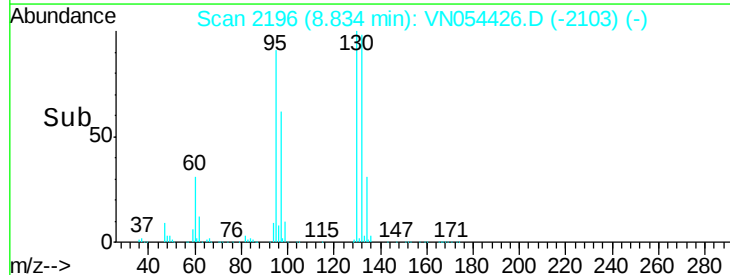
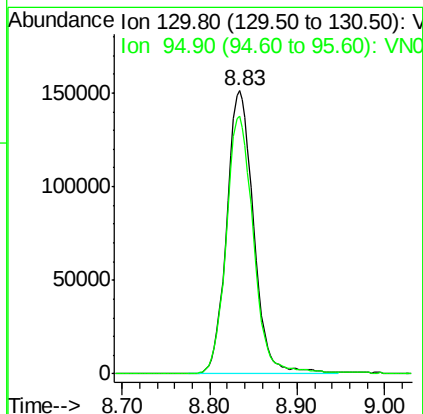
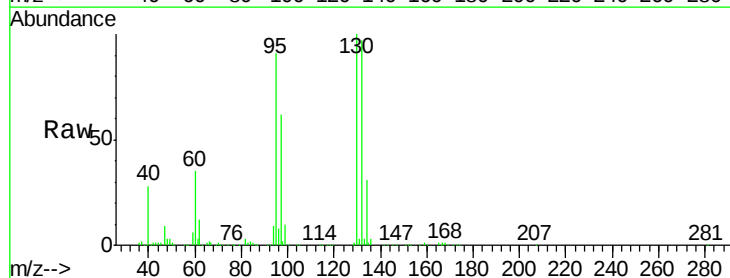
Tot Ion: 43 Resp: 354285
 Ion Ratio Lower Upper
 43 100
 61 22.0 15.8 23.8
 87 16.3 12.0 18.0

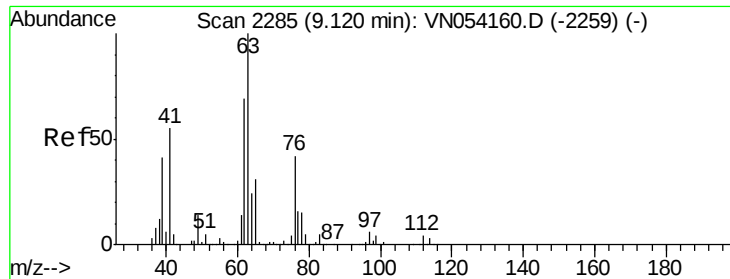


#44

Trichloroethene
 Concen: 19.916 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion: 130 Resp: 323174
 Ion Ratio Lower Upper
 130 100
 95 90.7 0.0 185.2

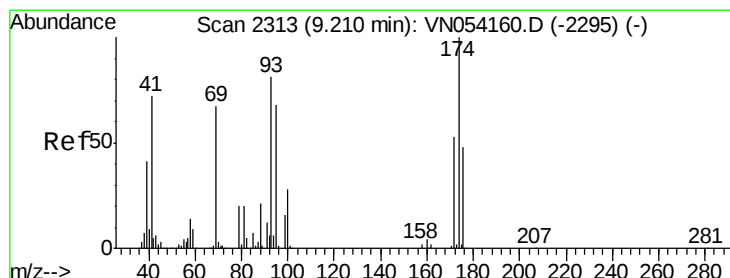
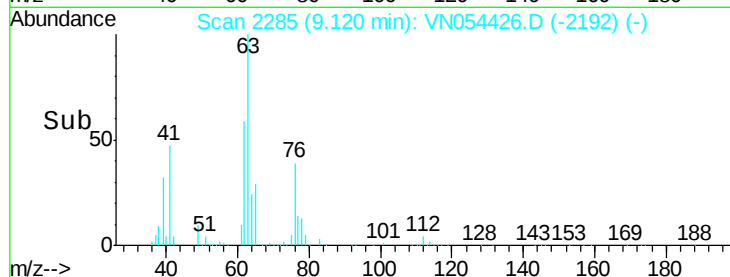
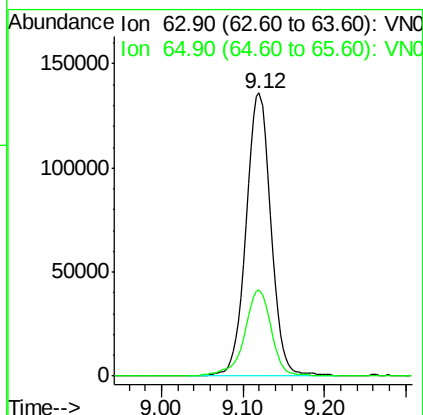
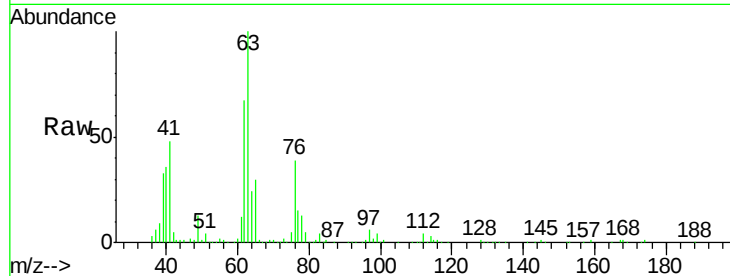




#45
 1,2-Dichloropropane
 Concen: 21.877 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

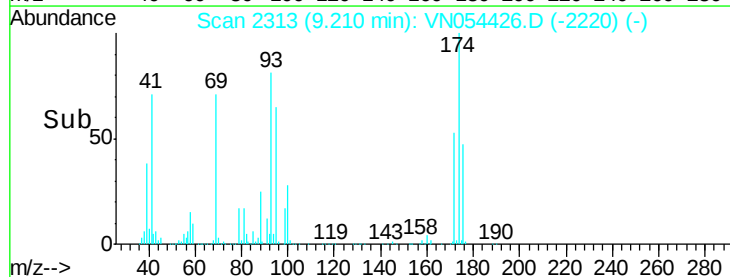
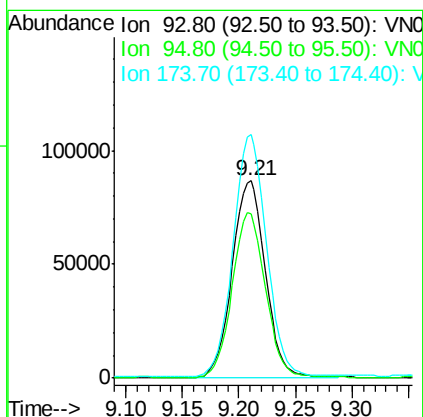
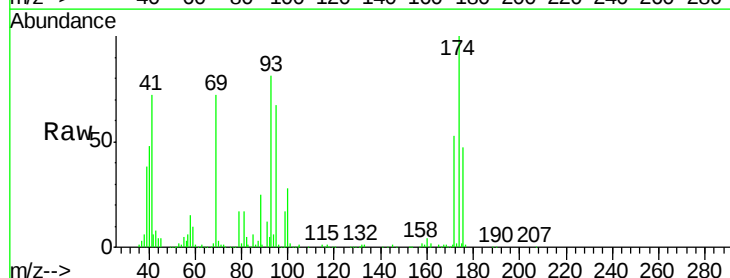
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

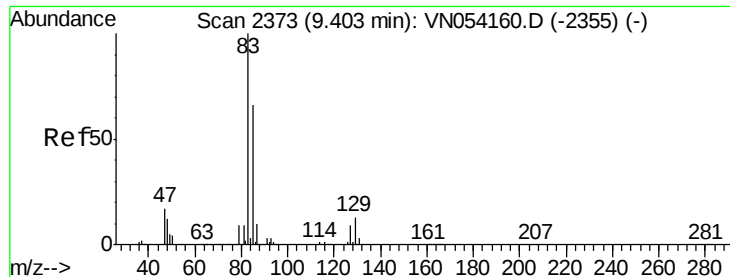
Tot Ion: 63 Resp: 283754
 Ion Ratio Lower Upper
 63 100
 65 30.1 25.0 37.6



#46
 Dibromomethane
 Concen: 20.402 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion: 93 Resp: 178793
 Ion Ratio Lower Upper
 93 100
 95 82.7 66.7 100.1
 174 122.2 98.5 147.7





#47

Bromodichloromethane

Concen: 19.022 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

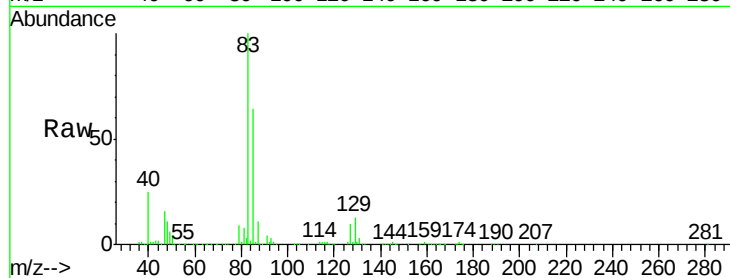
Tot Ion: 83 Resp: 334192

Ion Ratio Lower Upper

83 100

85 63.8 52.8 79.2

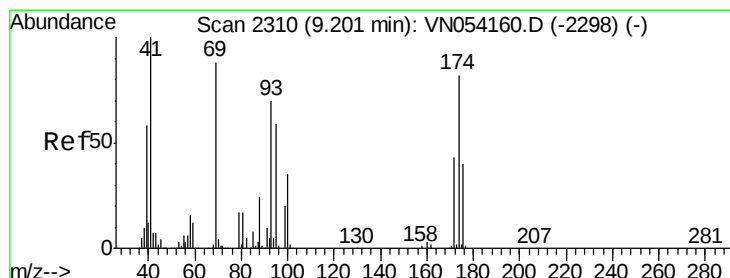
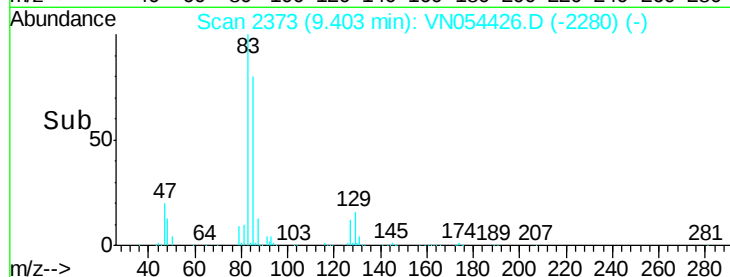
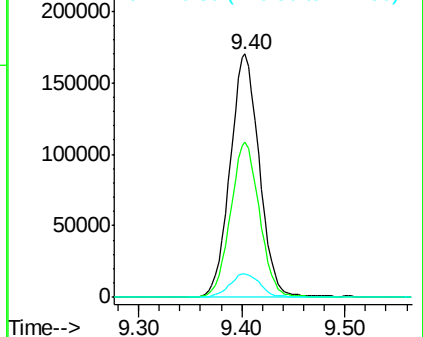
127 9.5 7.4 11.2



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: 20.018 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

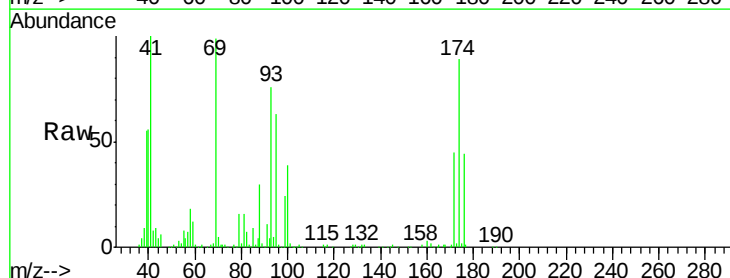
Tgt Ion: 41 Resp: 187027

Ion Ratio Lower Upper

41 100

69 100.7 72.6 108.8

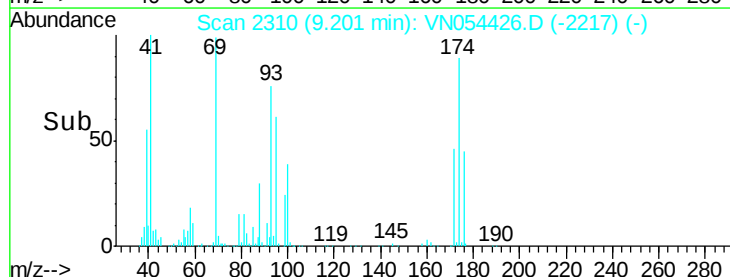
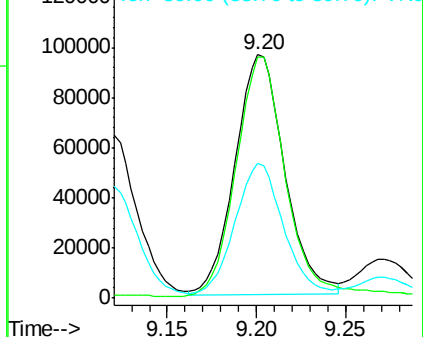
39 54.9 47.5 71.3

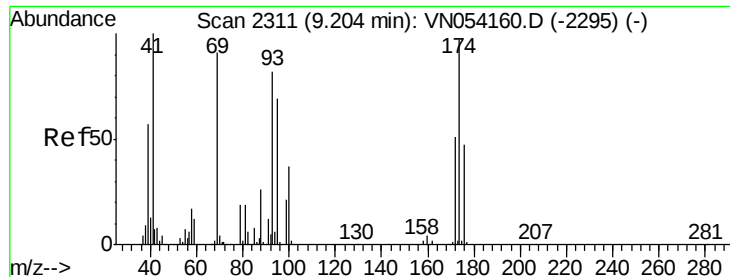


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 469.310 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

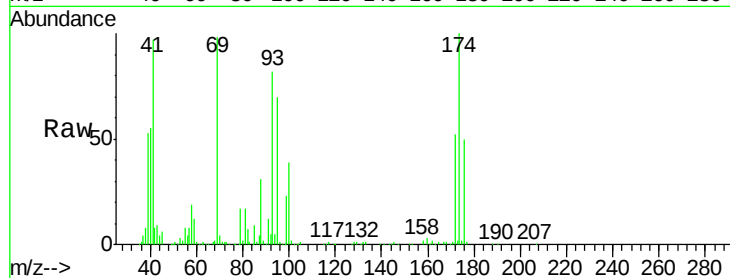
Tot Ion: 88 Resp: 62021

Ion Ratio Lower Upper

88 100

43 27.3 24.1 36.1

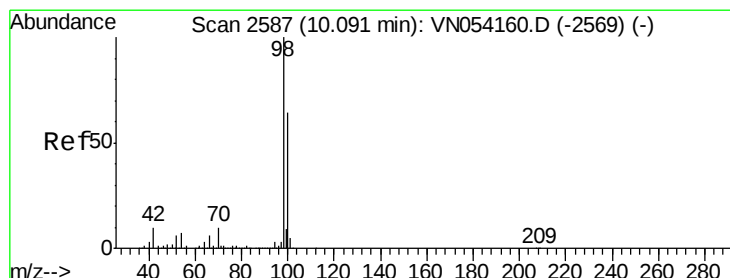
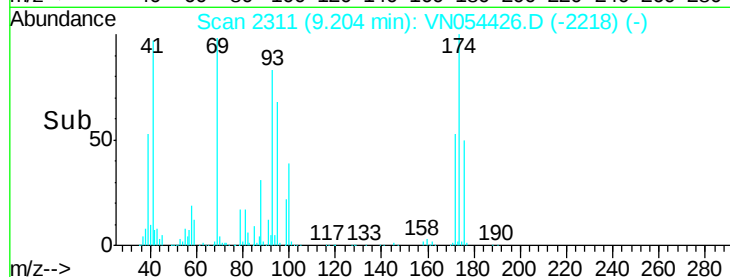
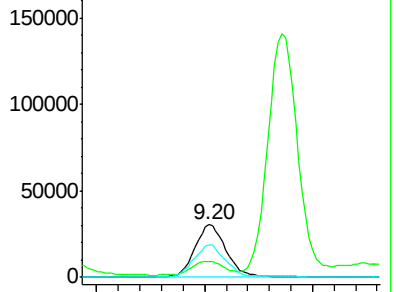
58 62.7 50.8 76.2



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: 49.062 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054426.D

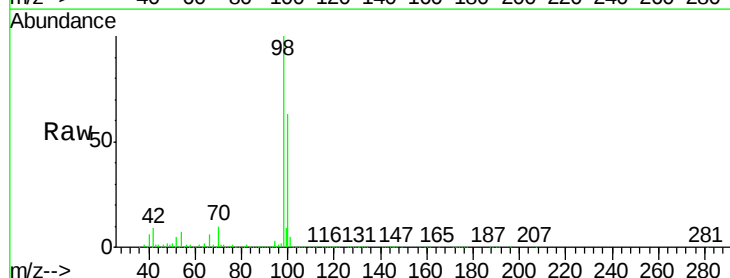
Acq: 19 Mar 2019 6:52

Tgt Ion: 98 Resp: 2316381

Ion Ratio Lower Upper

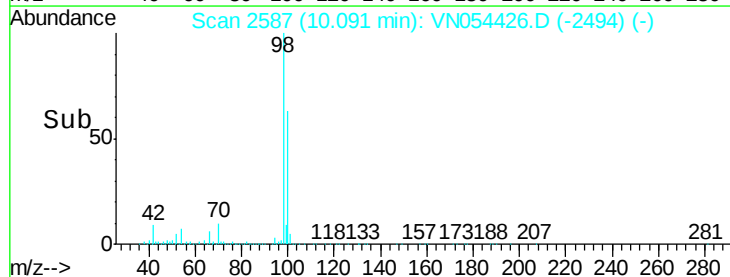
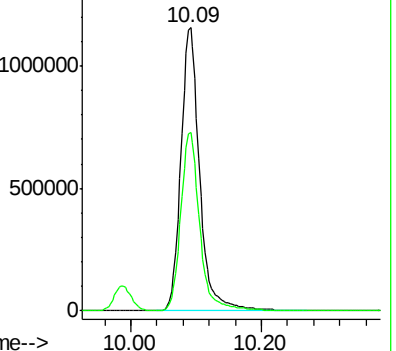
98 100

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: 106.645 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

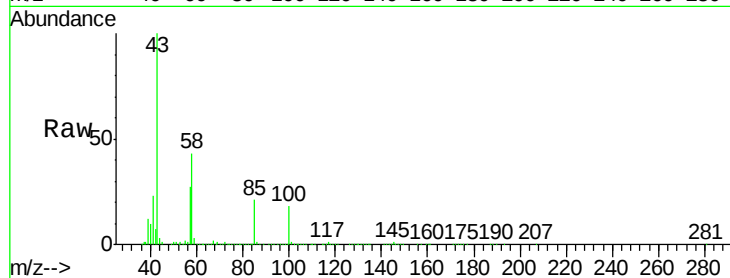
VN0318MBSD02

Tot Ion: 43 Resp: 1039018

Ion Ratio Lower Upper

43 100

58 42.9 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

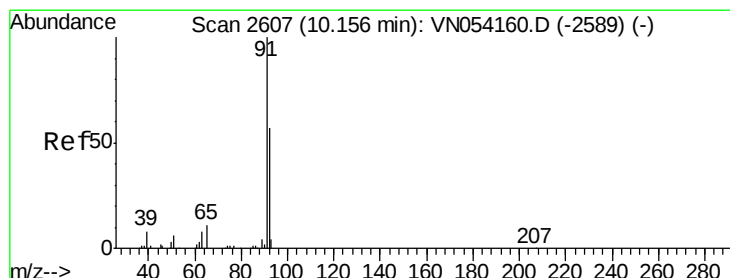
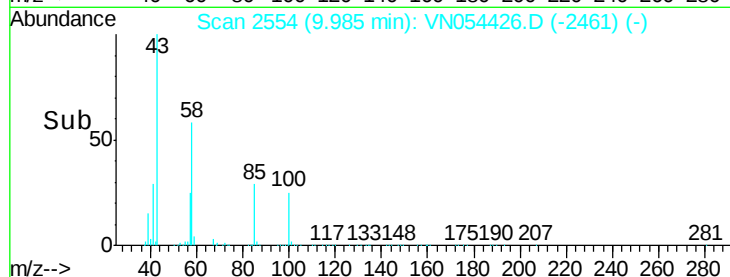
300000

200000

100000

0

Time--> 9.90 10.00 10.10



#52

Toluene

Concen: 20.672 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054426.D

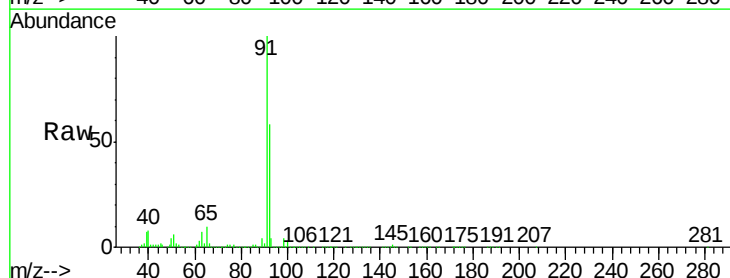
Acq: 19 Mar 2019 6:52

Tgt Ion: 92 Resp: 684670

Ion Ratio Lower Upper

92 100

91 174.0 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

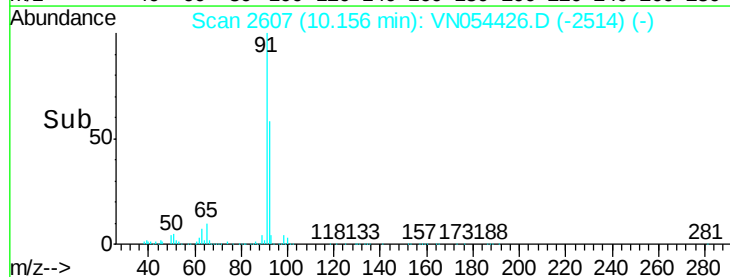
600000

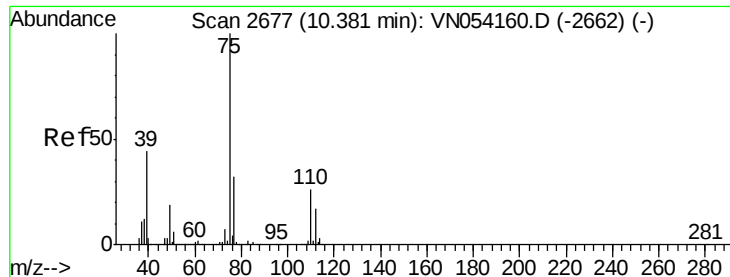
400000

200000

0

Time--> 10.00 10.10 10.20 10.30





#53

t-1,3-Dichloropropene

Concen: 15.432 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

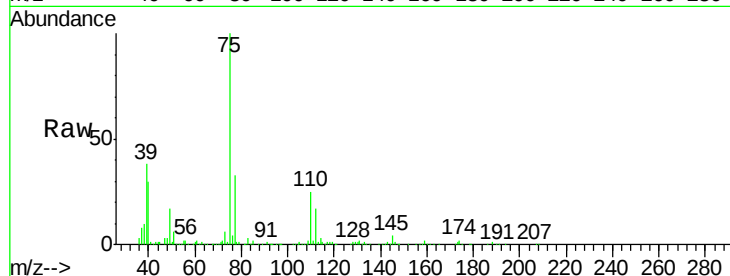
VN0318MBSD02

Tot Ion: 75 Resp: 281375

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

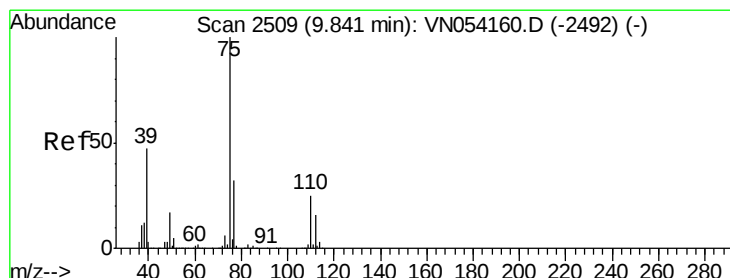
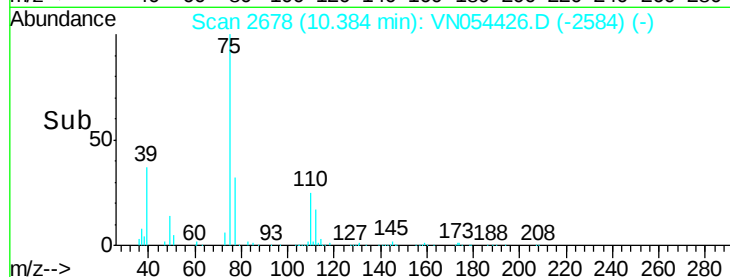
100000

50000

0

Time-->

10.30 10.40 10.50



#54

cis-1,3-Dichloropropene

Concen: 17.865 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

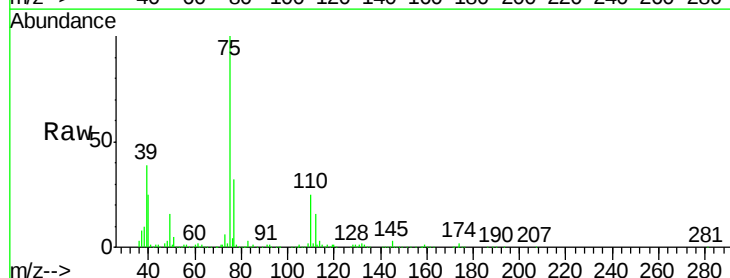
Tgt Ion: 75 Resp: 365759

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0

39 38.5 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

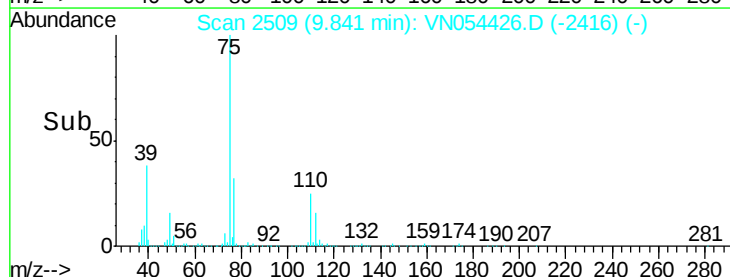
100000

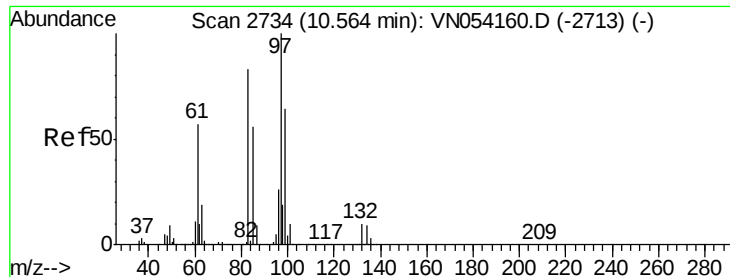
50000

0

Time-->

9.75 9.80 9.85 9.90 9.95

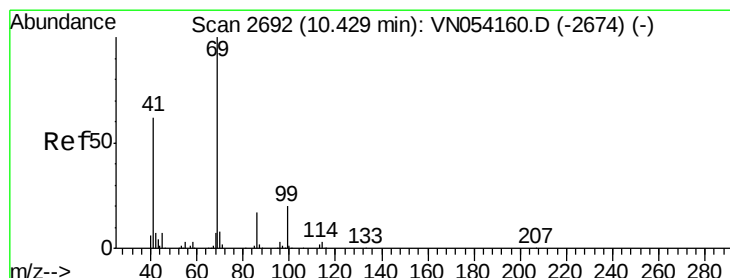
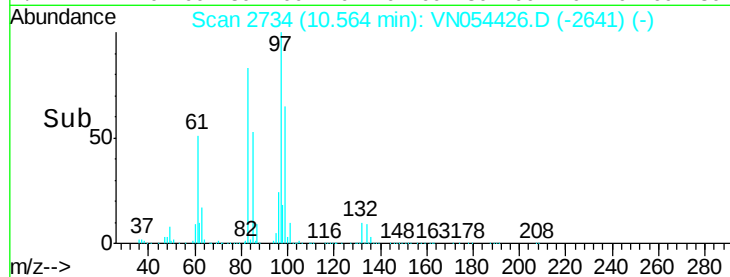
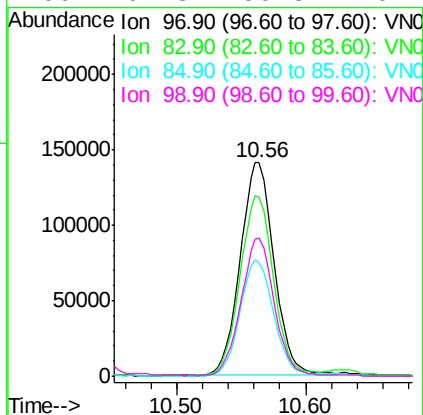
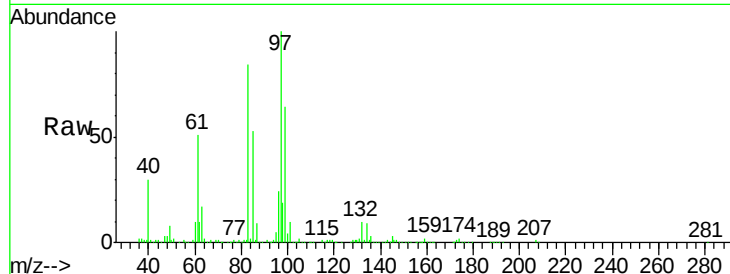




#55
 1,1,2-Trichloroethane
 Concen: 21.428 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

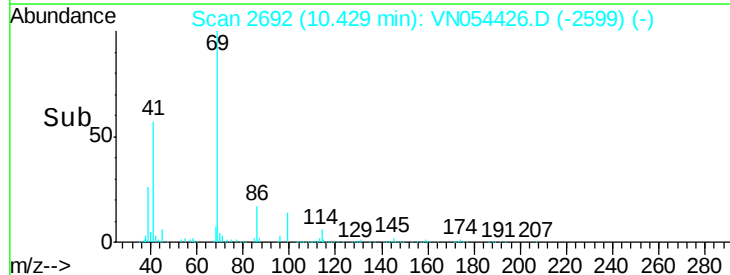
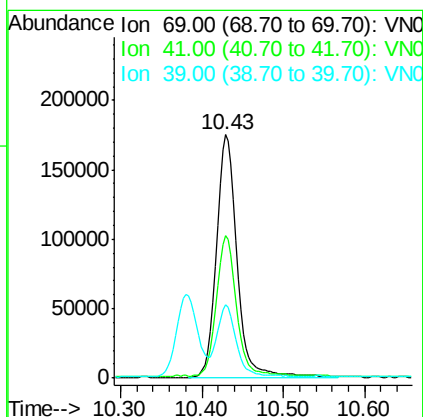
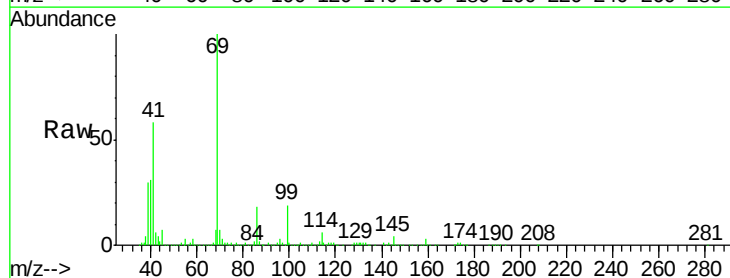
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

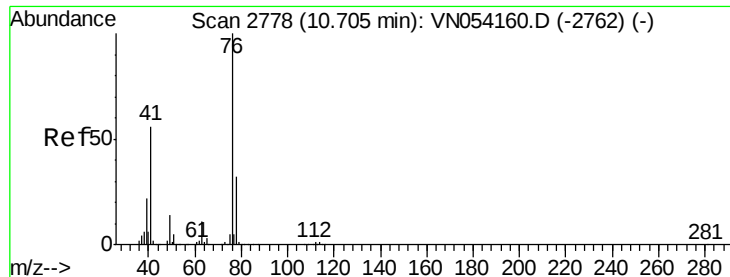
Tot Ion: 97 Resp: 259144
 Ion Ratio Lower Upper
 97 100
 83 83.7 66.6 100.0
 85 53.5 44.4 66.6
 99 64.3 50.8 76.2



#56
 Ethyl methacrylate
 Concen: 21.679 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion: 69 Resp: 312607
 Ion Ratio Lower Upper
 69 100
 41 56.2 49.4 74.2
 39 28.0 28.3 42.5#





#57

1,3-Dichloropropane

Concen: 21.258 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

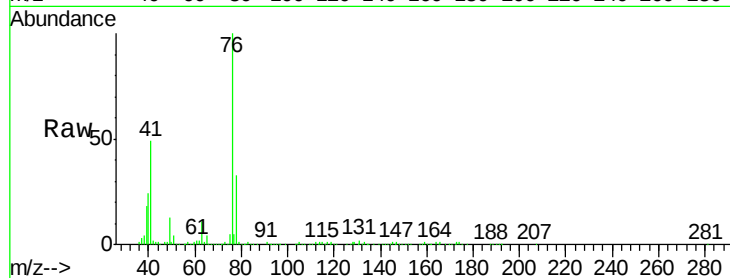
VN0318MBSD02

Tot Ion: 76 Resp: 420364

Ion Ratio Lower Upper

76 100

78 32.6 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

250000

200000

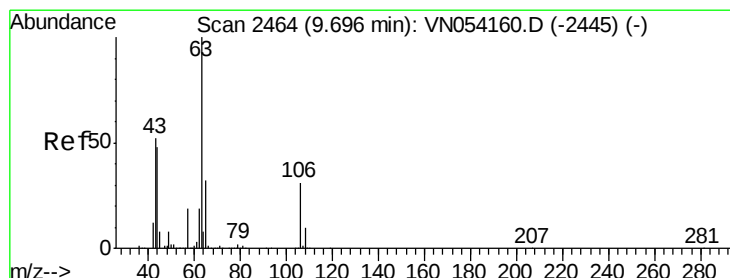
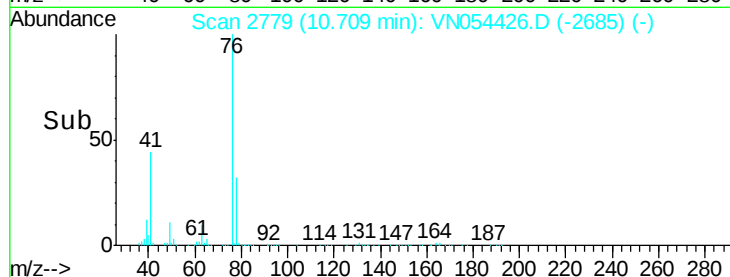
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 108.969 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054426.D

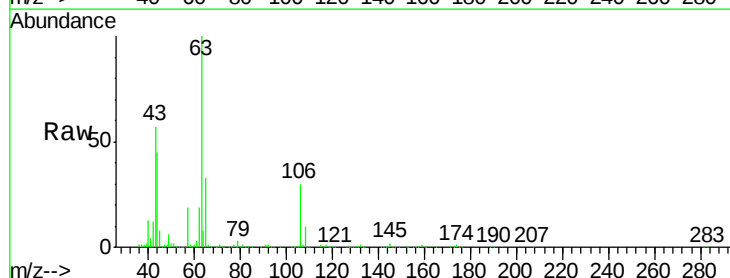
Acq: 19 Mar 2019 6:52

Tgt Ion: 63 Resp: 618039

Ion Ratio Lower Upper

63 100

106 30.3 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

400000

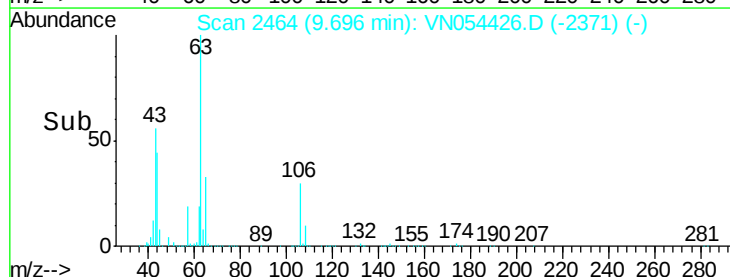
300000

200000

100000

0

Time--> 9.60 9.70 9.80

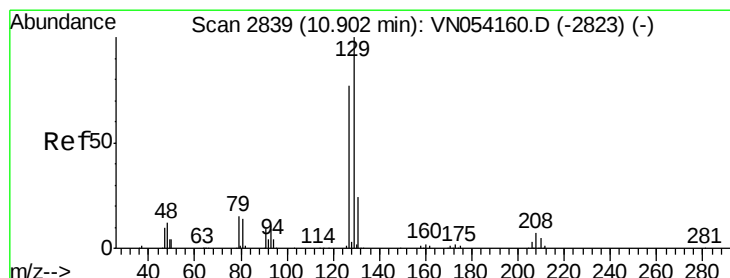
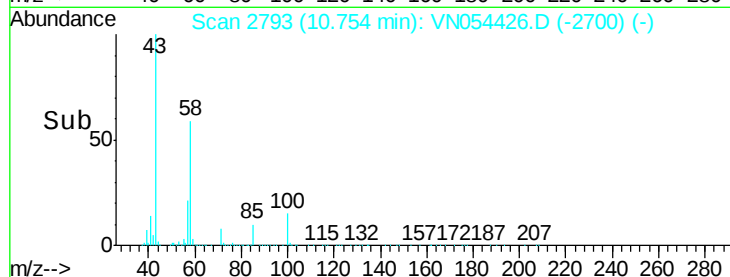
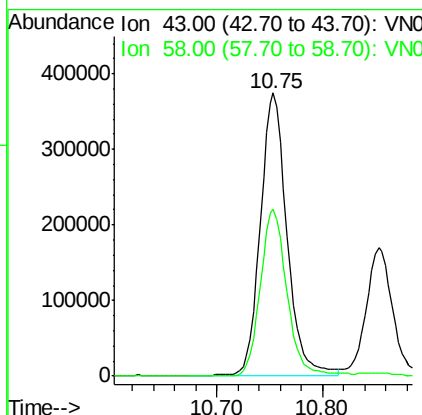
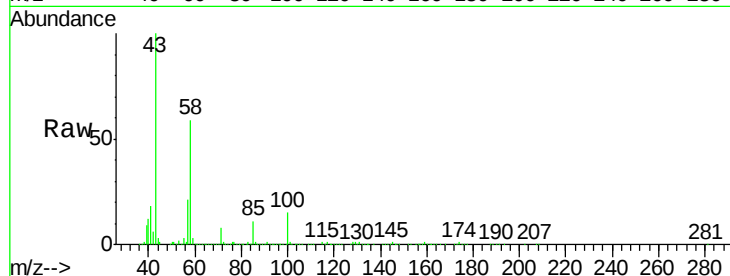




#59
2-Hexanone
Concen: 101.436 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

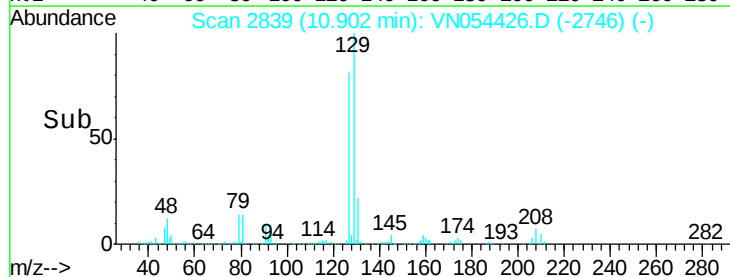
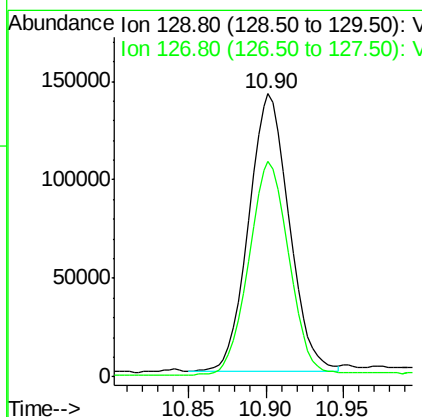
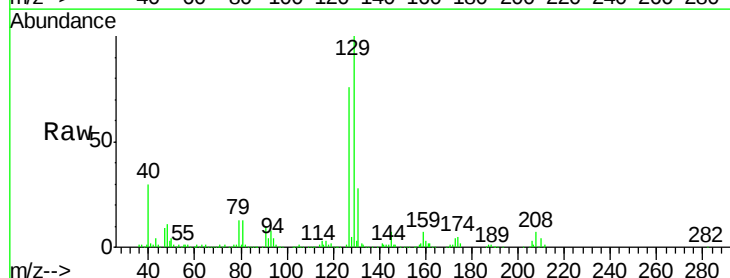
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

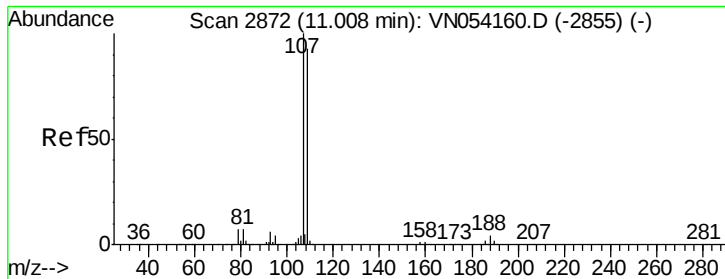
Tot Ion: 43 Resp: 657588
Ion Ratio Lower Upper
43 100
58 59.5 28.0 83.9



#60
Dibromochloromethane
Concen: 18.818 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 129 Resp: 256153
Ion Ratio Lower Upper
129 100
127 76.9 38.6 115.8





#61

1,2-Dibromoethane

Concen: 20.880 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

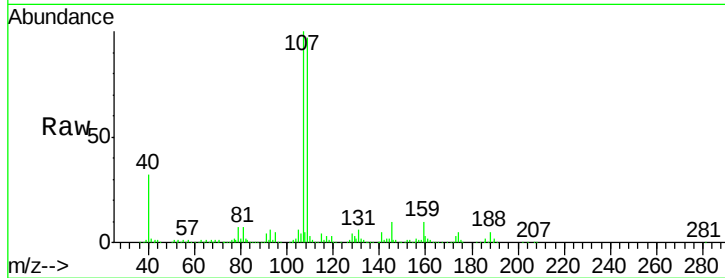
VN0318MBS02

Tot Ion:107 Resp: 256610

Ion Ratio Lower Upper

107 100

109 95.8 75.9 113.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

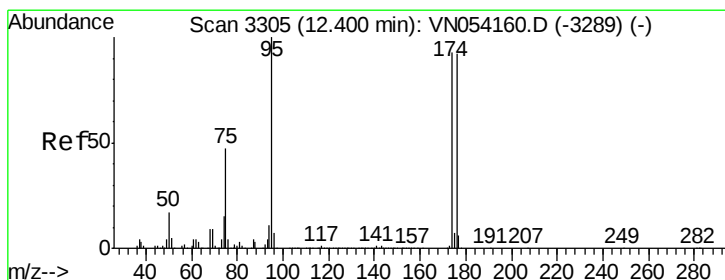
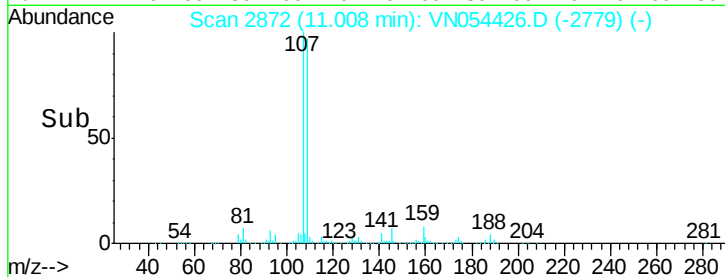
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 46.862 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

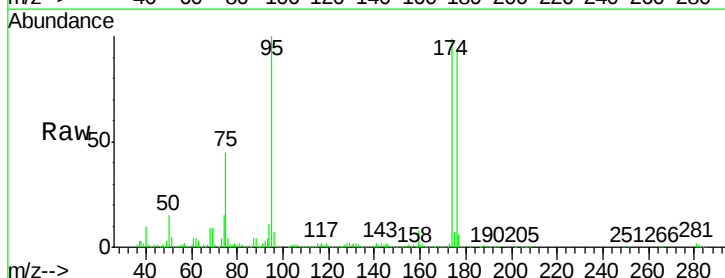
Tgt Ion: 95 Resp: 774162

Ion Ratio Lower Upper

95 100

174 94.6 0.0 191.0

176 94.8 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

600000

500000

400000

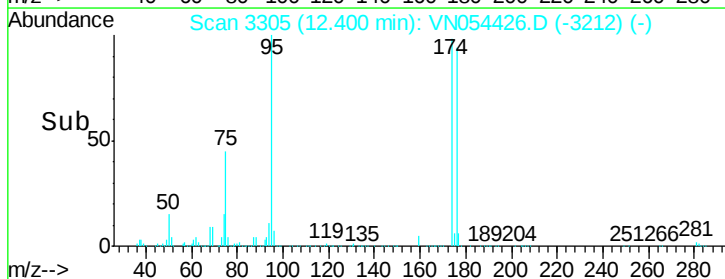
300000

200000

100000

0

Time--> 12.30 12.40 12.50

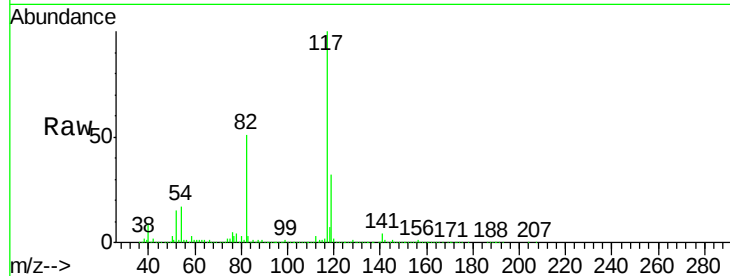




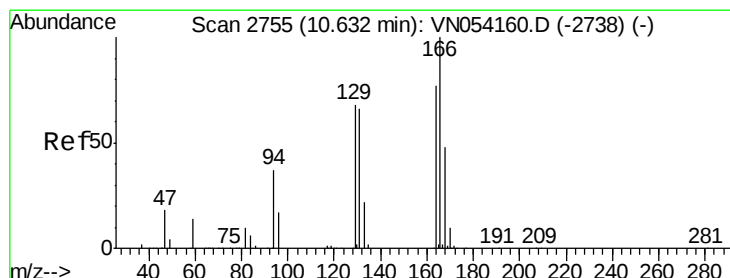
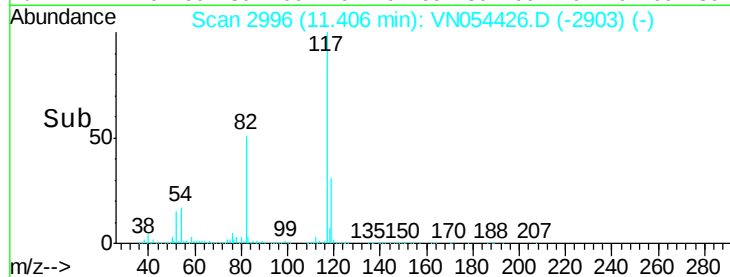
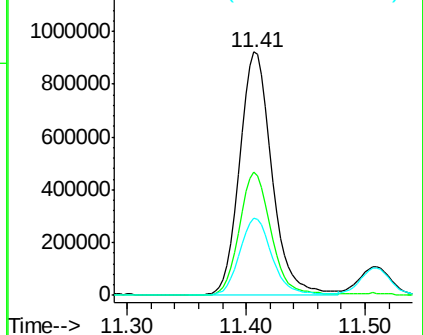
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion:117 Resp: 1725144
Ion Ratio Lower Upper
117 100
82 50.6 40.0 60.0
119 31.6 25.8 38.6

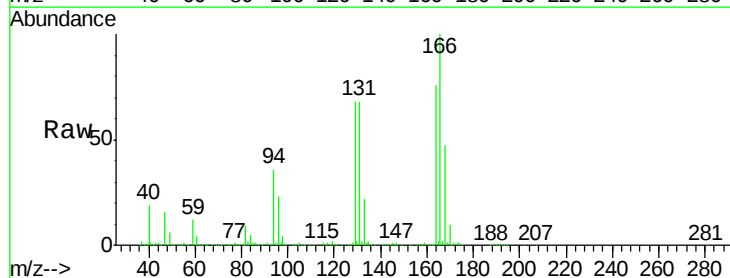


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

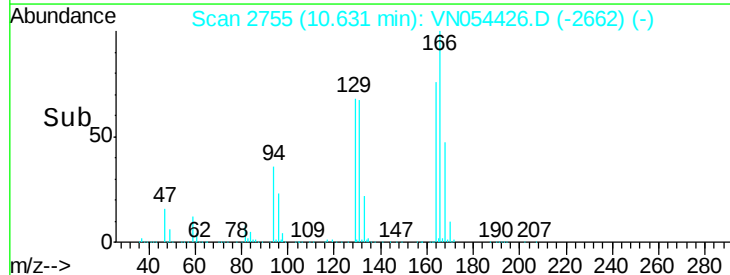
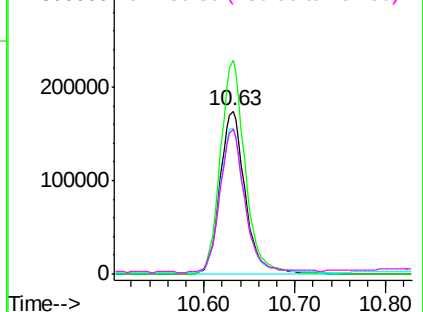


#64
Tetrachloroethene
Concen: 20.056 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion:164 Resp: 334526
Ion Ratio Lower Upper
164 100
166 131.1 103.9 155.9
129 88.7 71.1 106.7
131 87.5 68.2 102.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 20.660 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

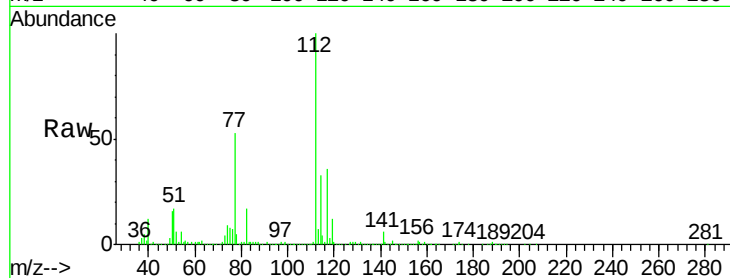
VN0318MBSD02

Tot Ion:112 Resp: 782596

Ion Ratio Lower Upper

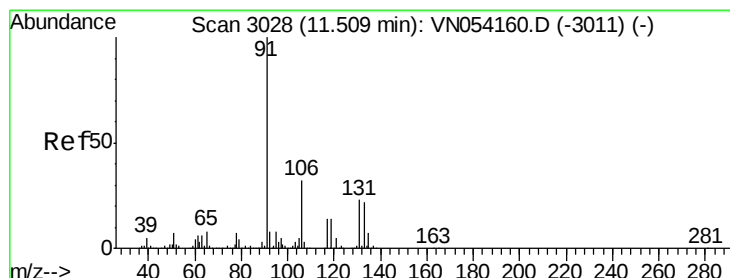
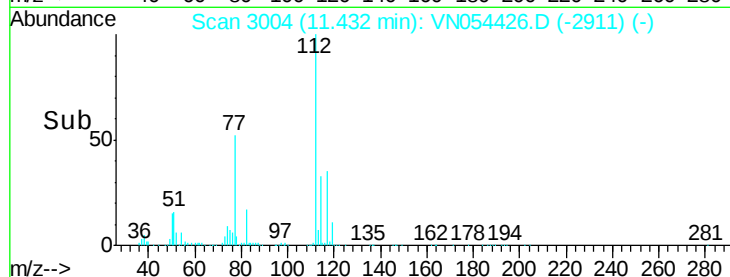
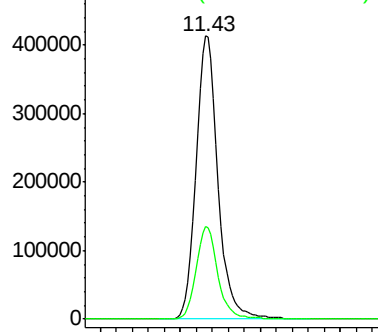
112 100

114 32.7 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.005 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

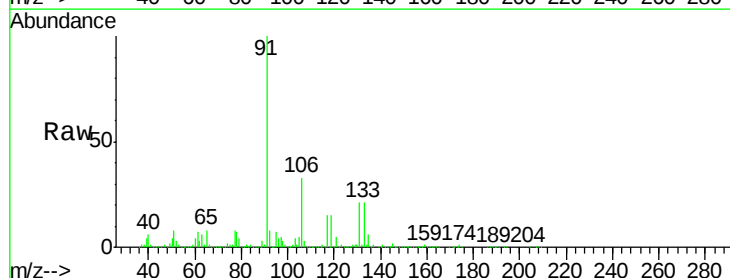
Tgt Ion:131 Resp: 275283

Ion Ratio Lower Upper

131 100

133 95.9 47.6 142.9

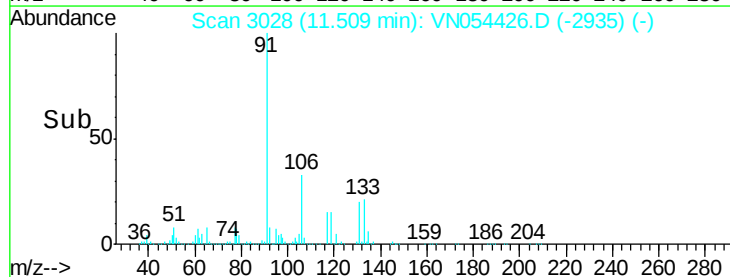
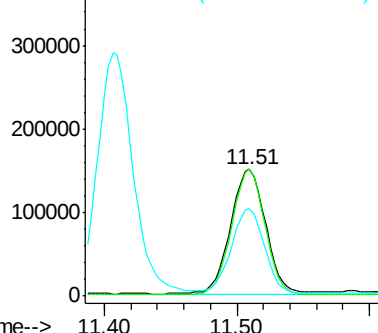
119 65.6 32.4 97.0

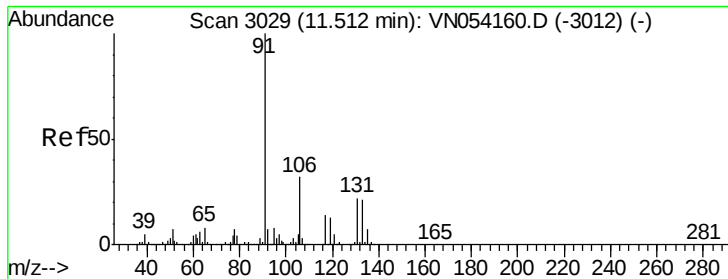


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 20.404 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleID :

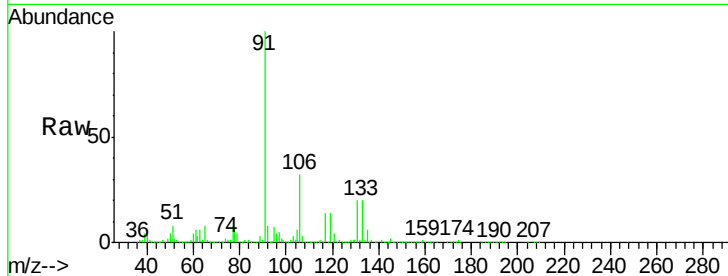
VN0318MBSD02

Tot Ion: 91 Resp: 1281220

Ion Ratio Lower Upper

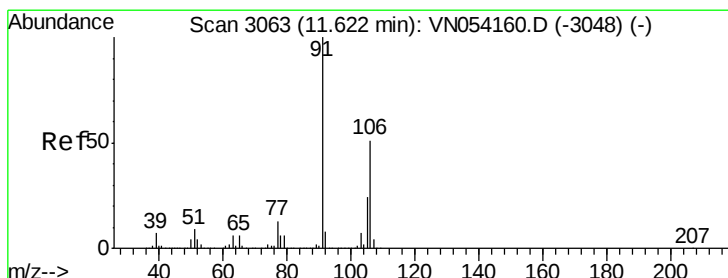
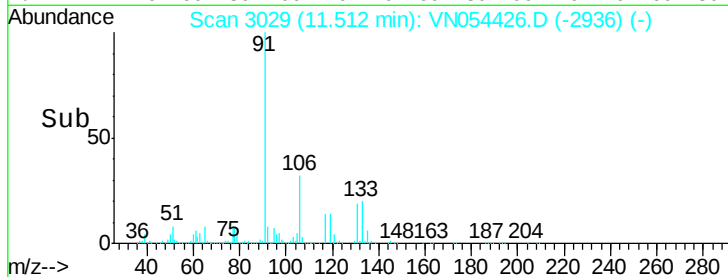
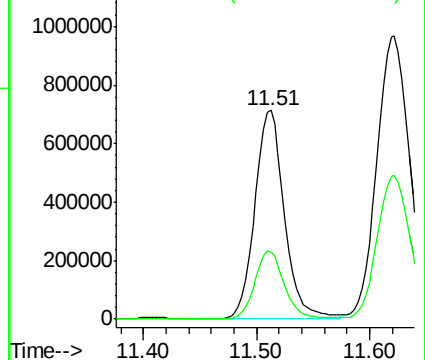
91 100

106 32.4 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 40.516 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN054426.D

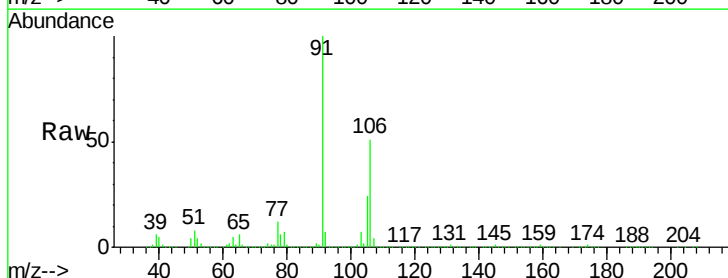
Acq: 19 Mar 2019 6:52

Tgt Ion: 106 Resp: 994345

Ion Ratio Lower Upper

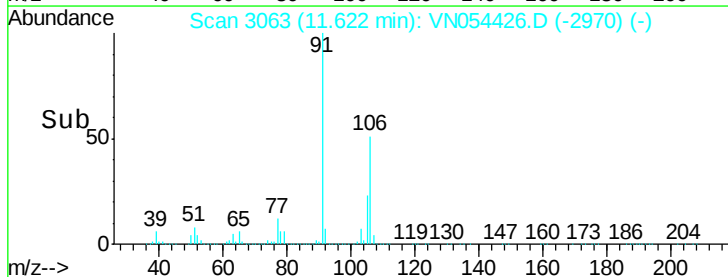
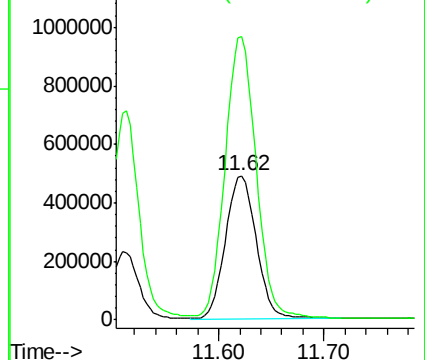
106 100

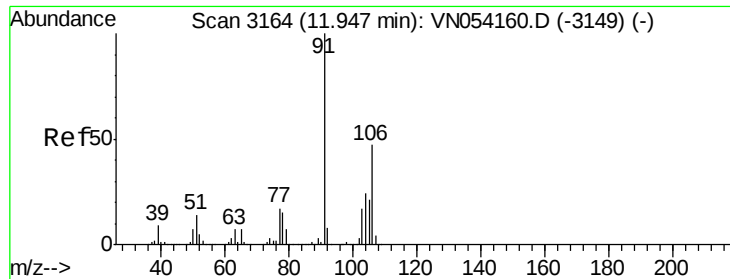
91 197.8 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

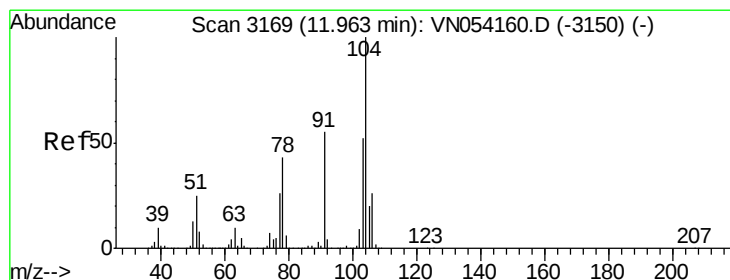
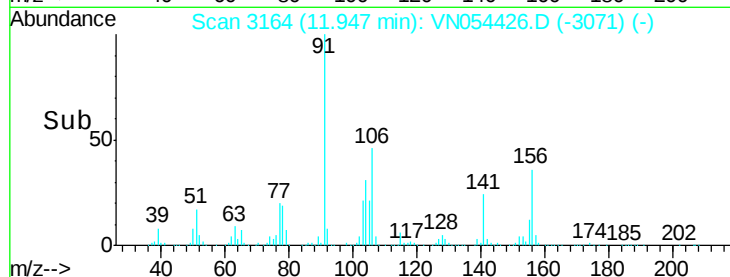
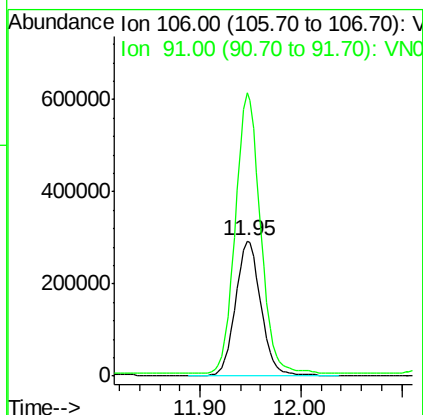
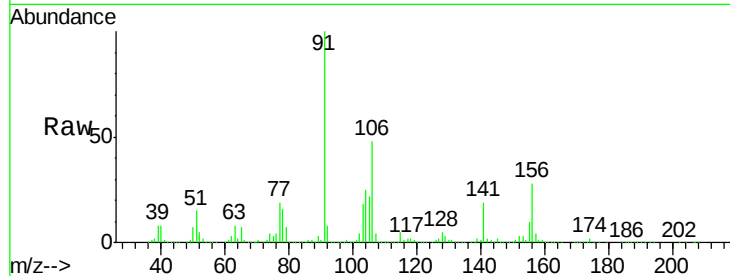




#69
o-Xylene
Concen: 21.146 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

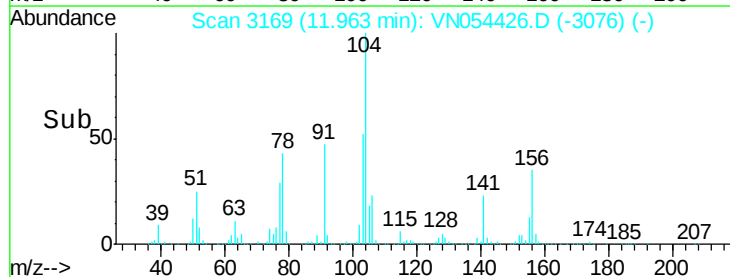
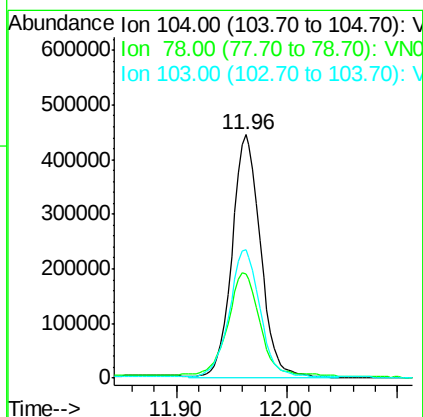
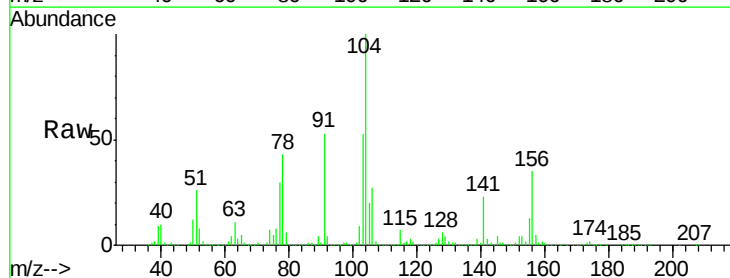
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

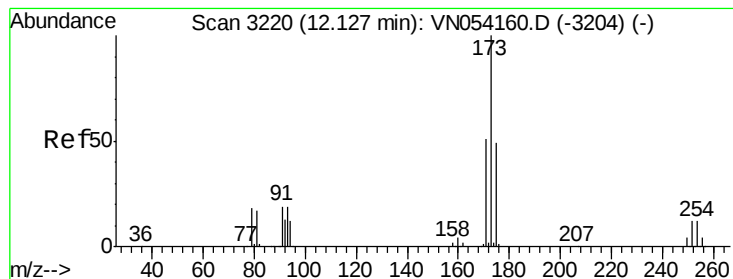
Tot Ion:106 Resp: 505892
Ion Ratio Lower Upper
106 100
91 207.1 105.7 317.1



#70
Styrene
Concen: 21.138 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion:104 Resp: 793116
Ion Ratio Lower Upper
104 100
78 49.5 38.2 57.2
103 56.5 44.4 66.6





#71

Bromoform

Concen: 17.419 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

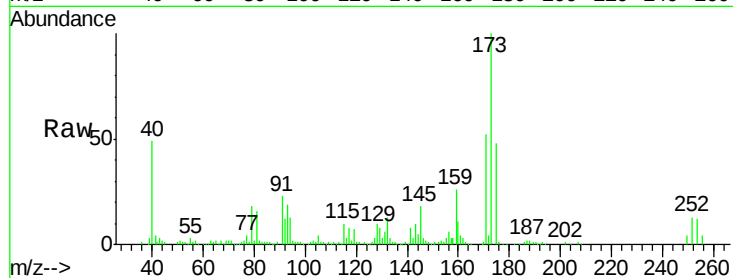
Tot Ion:173 Resp: 165863

Ion Ratio Lower Upper

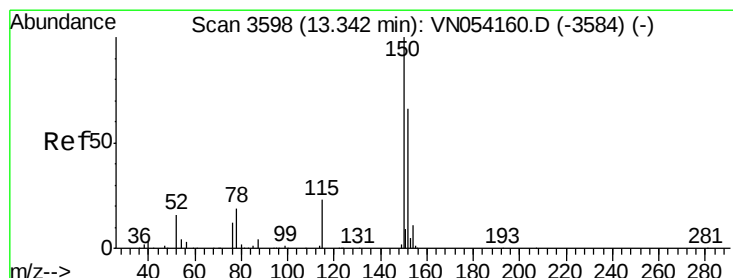
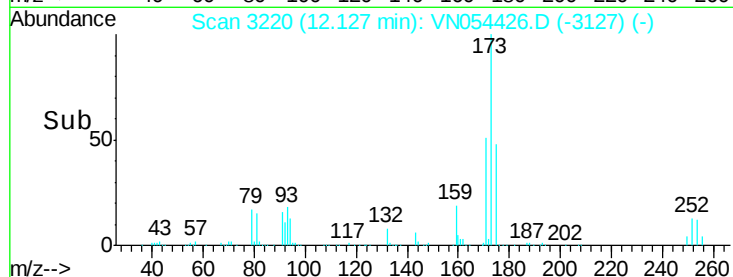
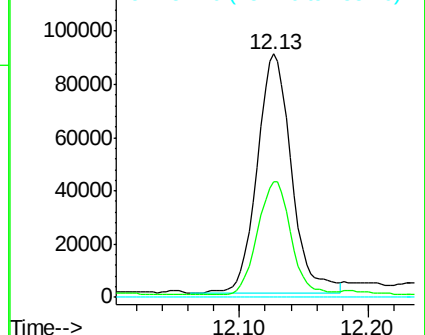
173 100

175 46.2 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: VN054426.D

Acq: 19 Mar 2019 6:52

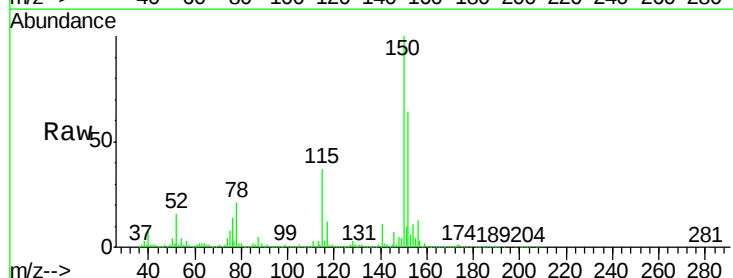
Tgt Ion:152 Resp: 842689

Ion Ratio Lower Upper

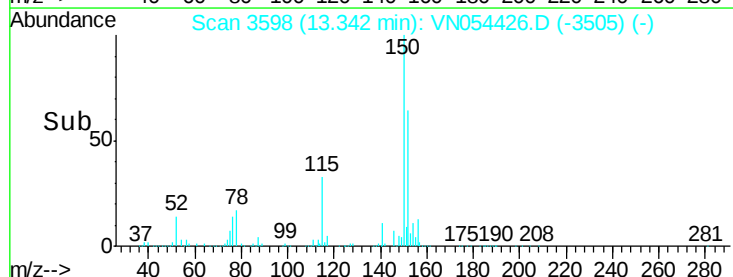
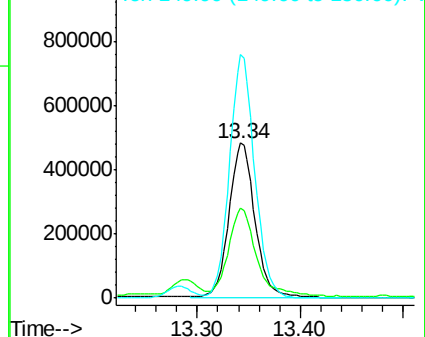
152 100

115 60.7 27.2 81.6

150 153.1 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: 19.562 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

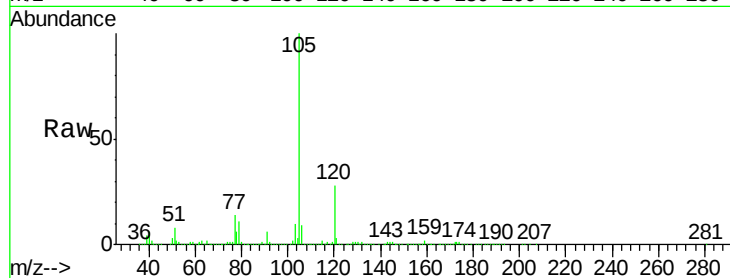
VN0318MBSD02

Tot Ion:105 Resp: 1318896

Ion Ratio Lower Upper

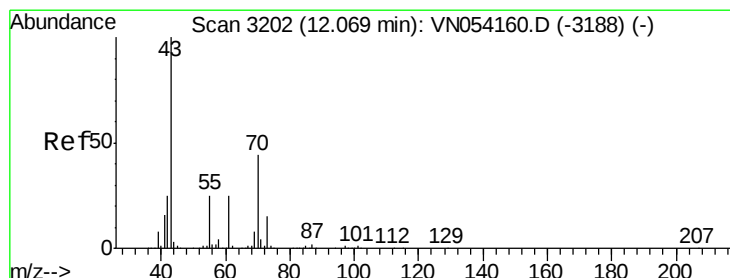
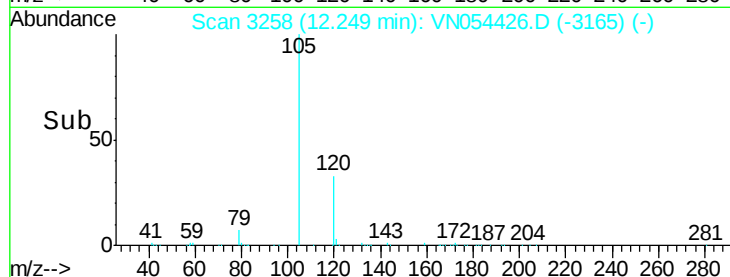
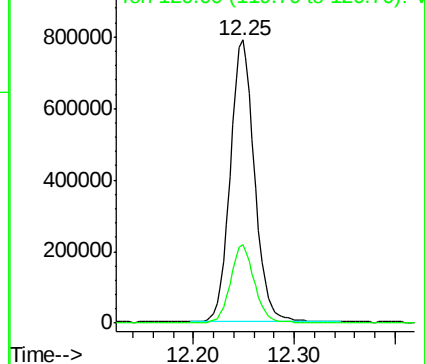
105 100

120 27.4 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: 19.888 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion: 43 Resp: 297623

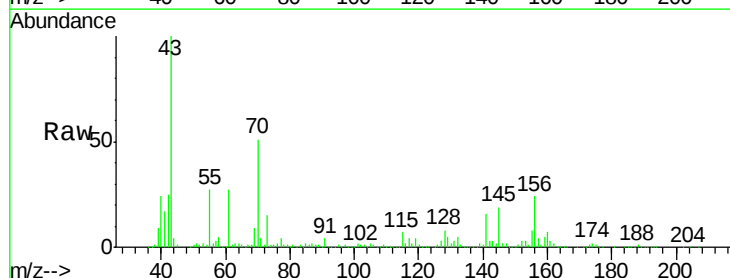
Ion Ratio Lower Upper

43 100

70 51.3 35.4 53.0

55 26.9 19.8 29.6

61 27.5 19.8 29.6

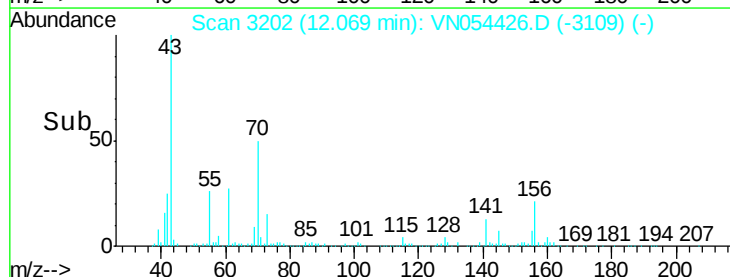
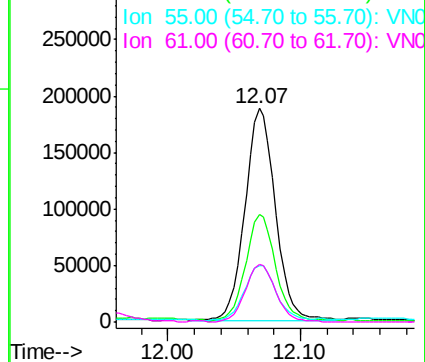


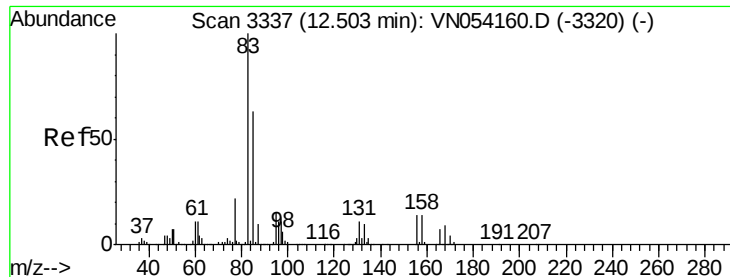
Abundance Ion 43.00 (42.70 to 43.70): V

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: 20.723 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

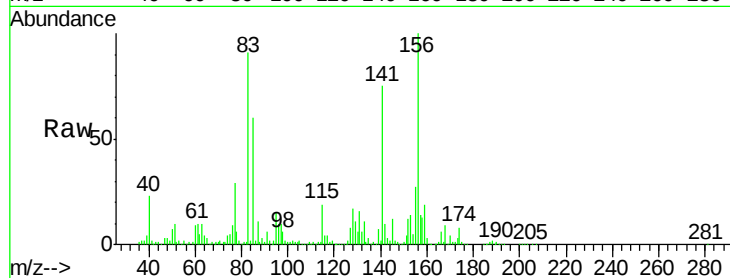
Tot Ion: 83 Resp: 297668

Ion Ratio Lower Upper

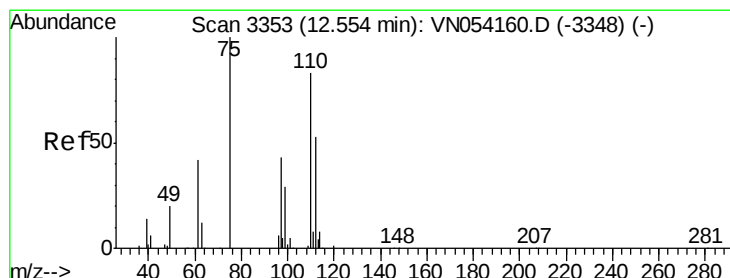
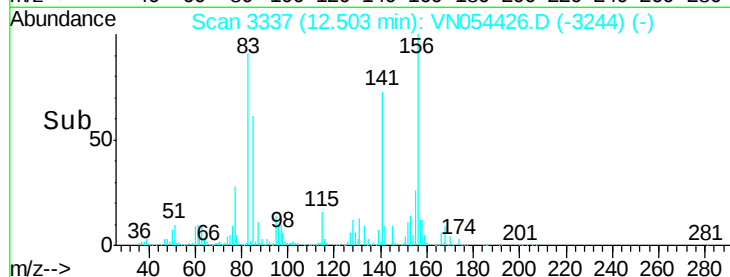
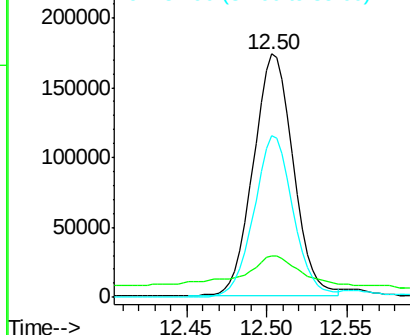
83 100

131 16.6 5.8 17.4

85 65.1 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 31.219 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054426.D

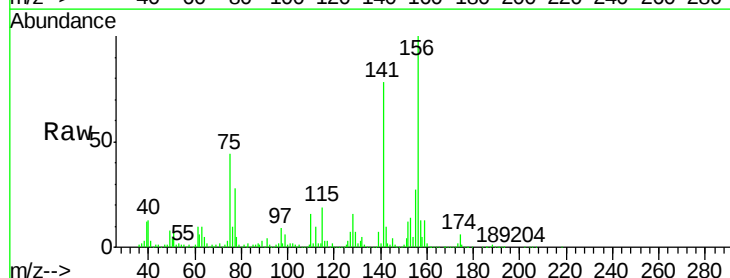
Acq: 19 Mar 2019 6:52

Tgt Ion: 75 Resp: 386868

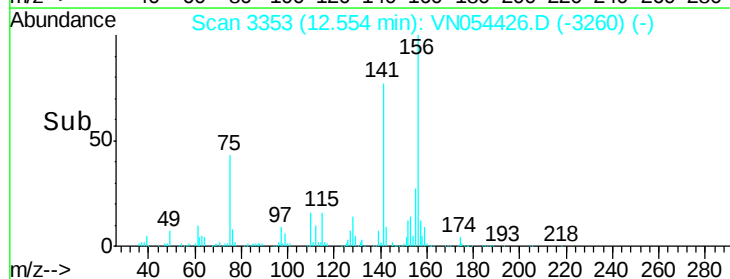
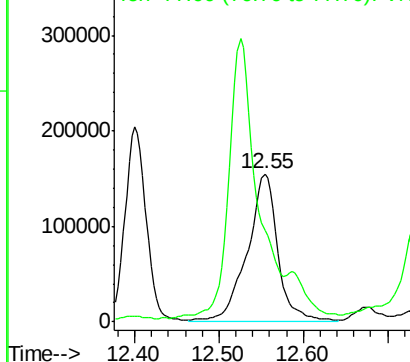
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 135.147 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

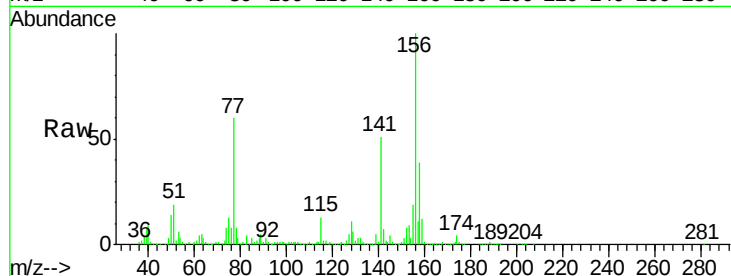
Tot Ion:156 Resp: 2411096

Ion Ratio Lower Upper

156 100

77 28.1 81.5 244.4#

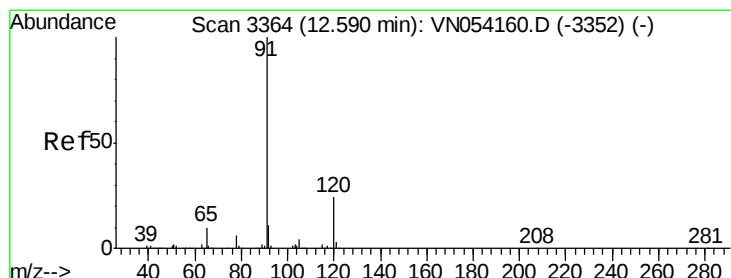
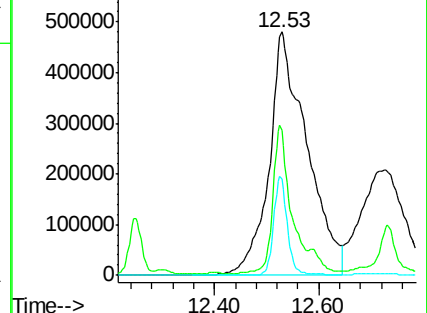
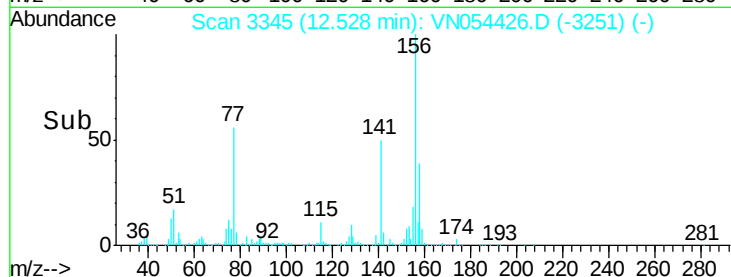
158 14.2 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.790 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054426.D

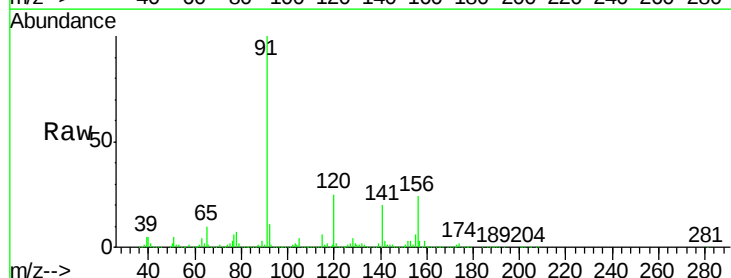
Acq: 19 Mar 2019 6:52

Tgt Ion: 91 Resp: 1374584

Ion Ratio Lower Upper

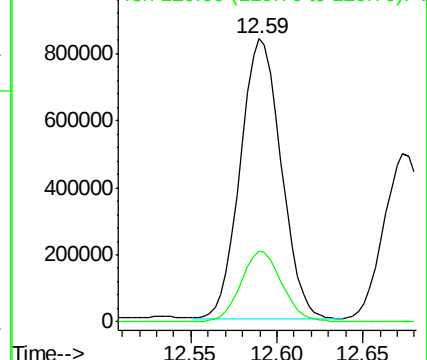
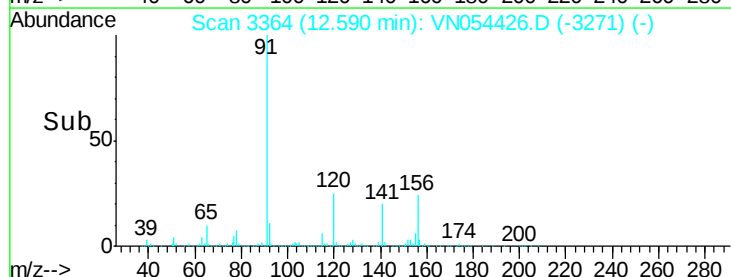
91 100

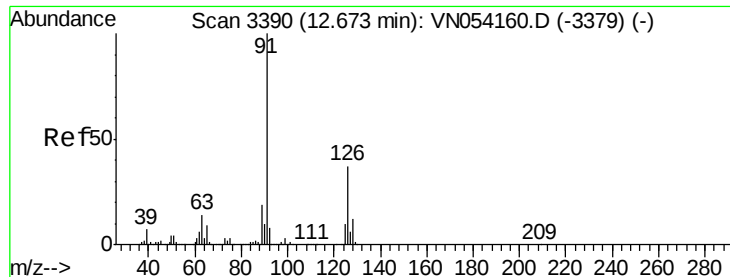
120 25.2 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.051 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

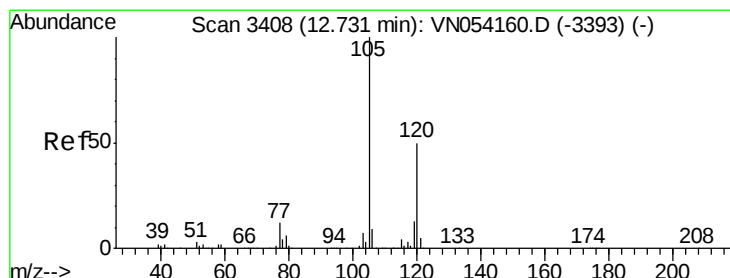
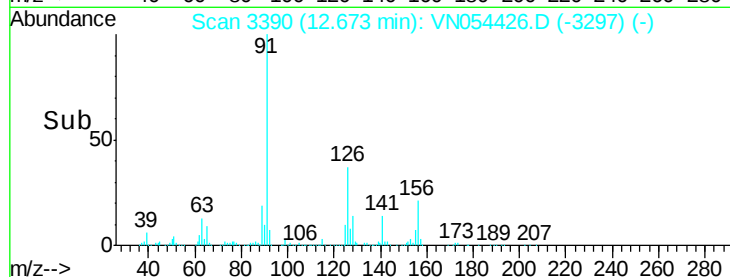
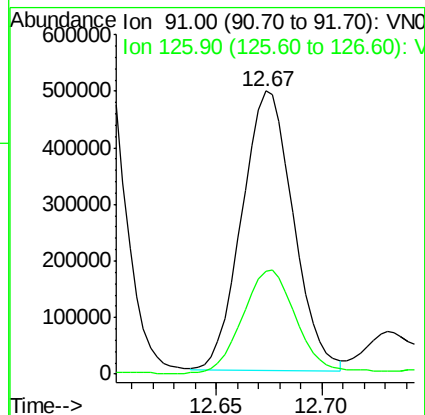
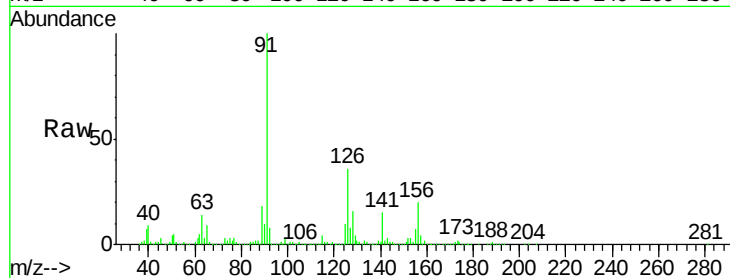
VN0318MBSD02

Tot Ion: 91 Resp: 837967

Ion Ratio Lower Upper

91 100

126 39.6 18.7 56.1



#80

1,3,5-Trimethylbenzene

Concen: 20.334 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054426.D

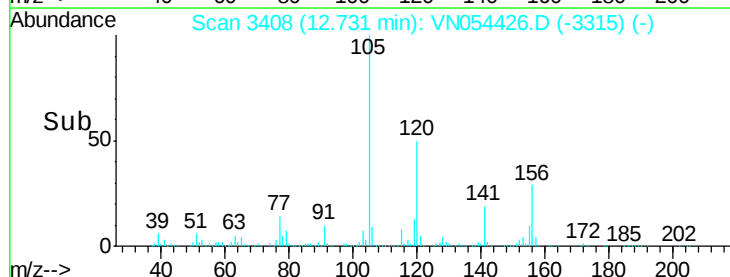
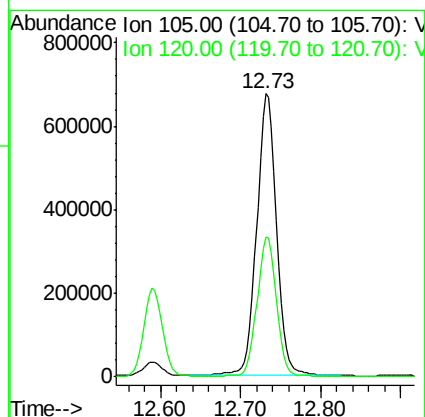
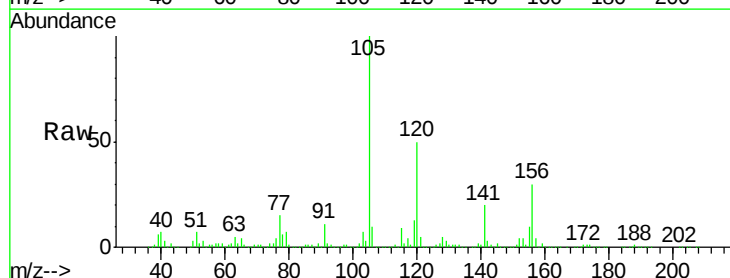
Acq: 19 Mar 2019 6:52

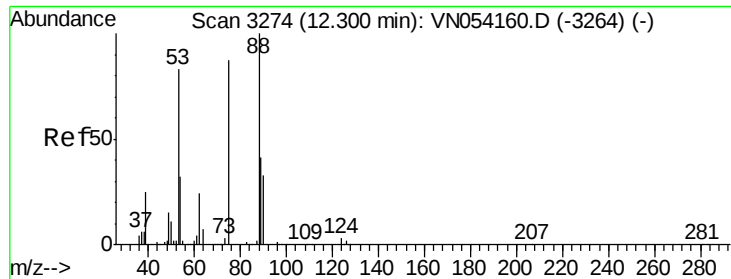
Tgt Ion: 105 Resp: 1140325

Ion Ratio Lower Upper

105 100

120 47.8 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 11.958 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

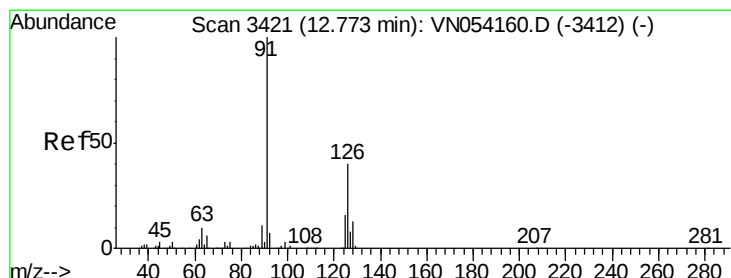
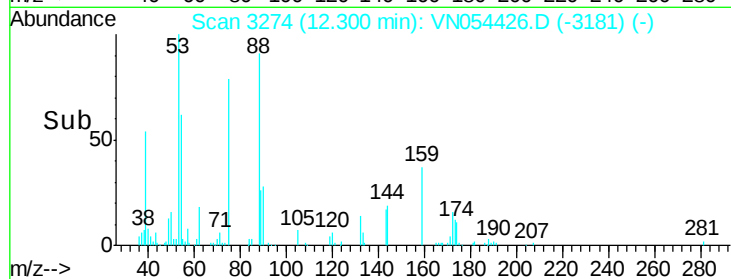
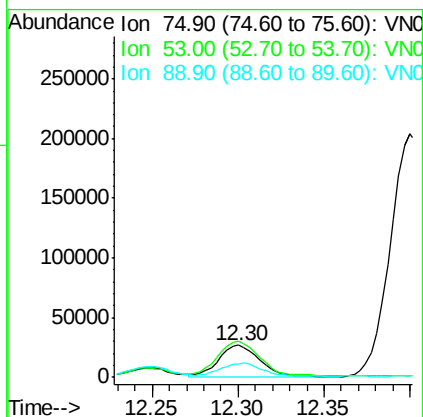
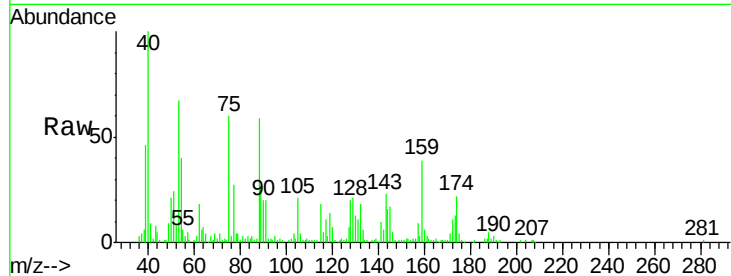
Tot Ion: 75 Resp: 43347

Ion Ratio Lower Upper

75 100

53 117.2 76.2 114.2#

89 43.1 39.2 58.8



#82

4-Chlorotoluene

Concen: 18.849 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054426.D

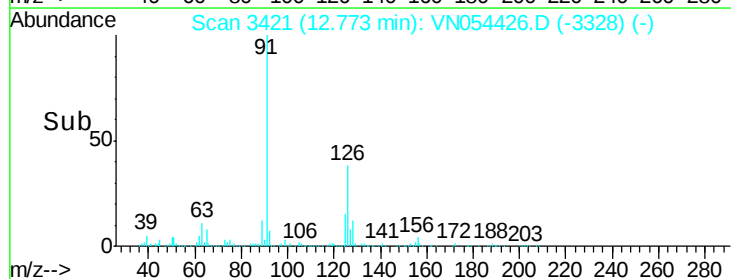
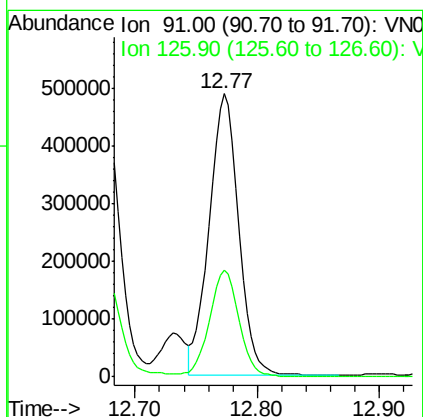
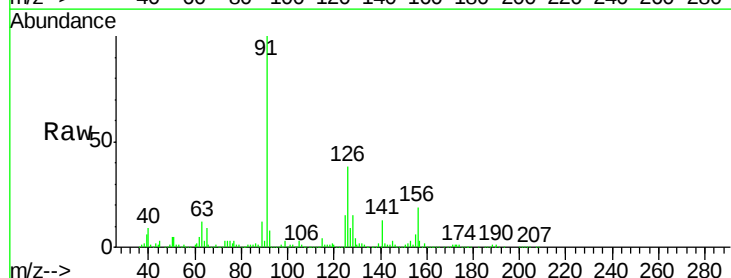
Acq: 19 Mar 2019 6:52

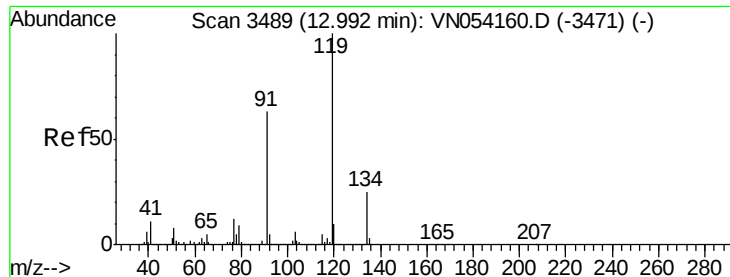
Tgt Ion: 91 Resp: 827881

Ion Ratio Lower Upper

91 100

126 37.8 18.1 54.1





#83

tert-Butylbenzene

Concen: 18.858 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

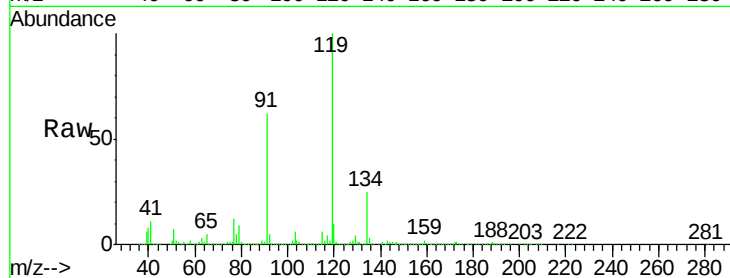
Tot Ion:119 Resp: 973395

Ion Ratio Lower Upper

119 100

91 60.5 30.9 92.8

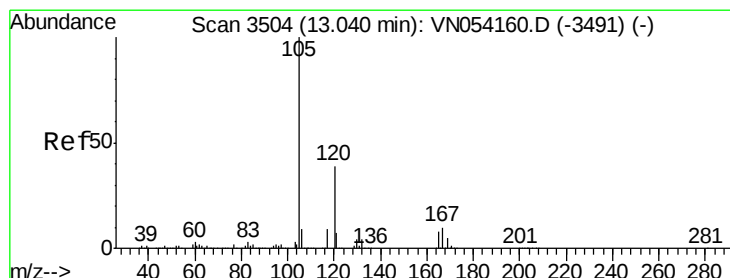
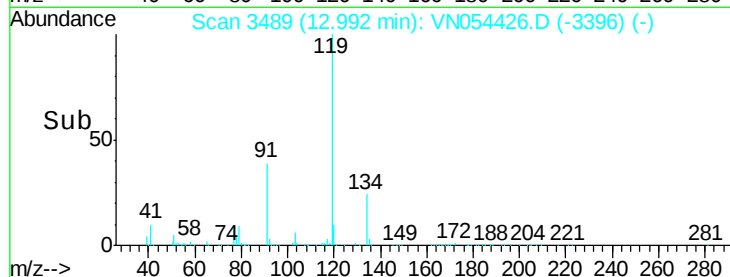
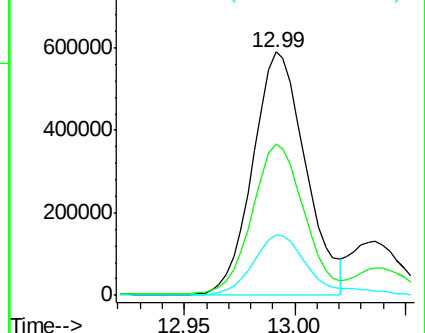
134 26.7 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.236 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054426.D

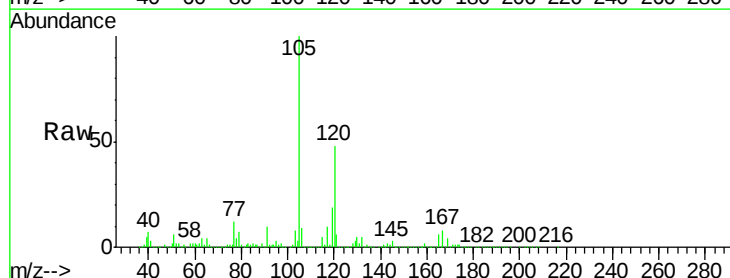
Acq: 19 Mar 2019 6:52

Tgt Ion:105 Resp: 1058310

Ion Ratio Lower Upper

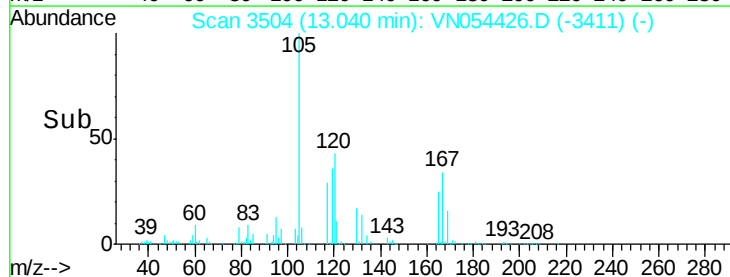
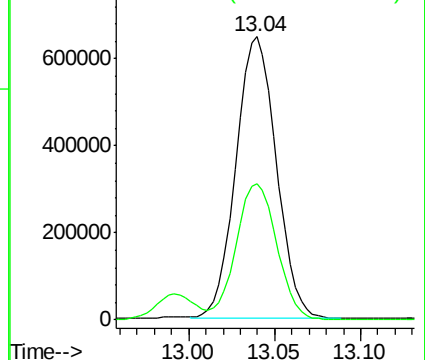
105 100

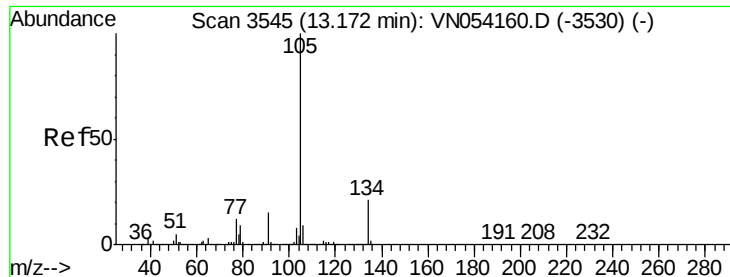
120 48.7 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 18.187 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

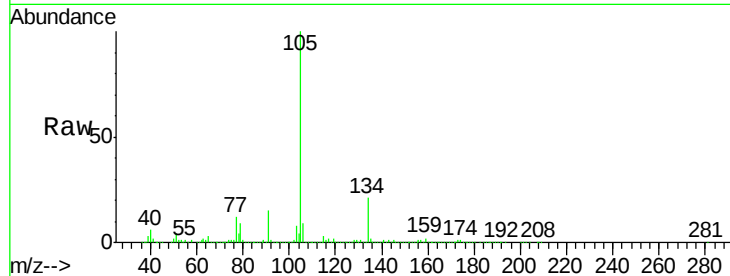
VN0318MBSD02

Tot Ion:105 Resp: 1217442

Ion Ratio Lower Upper

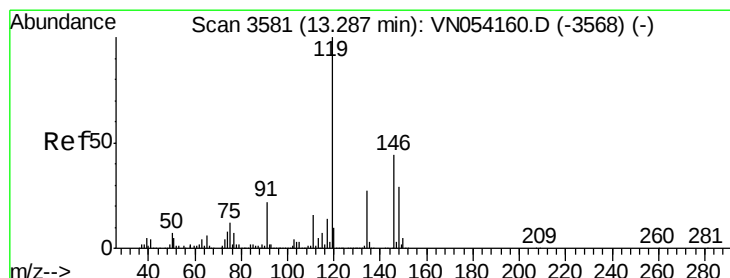
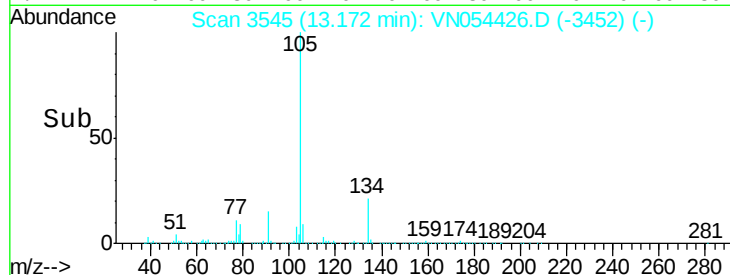
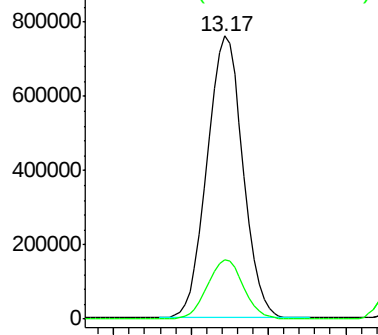
105 100

134 21.5 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: 18.541 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

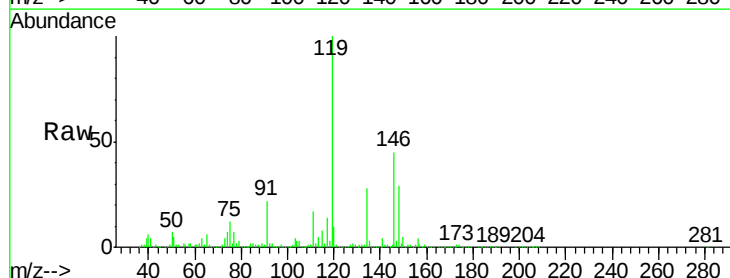
Tgt Ion:119 Resp: 1088881

Ion Ratio Lower Upper

119 100

134 27.5 13.6 40.8

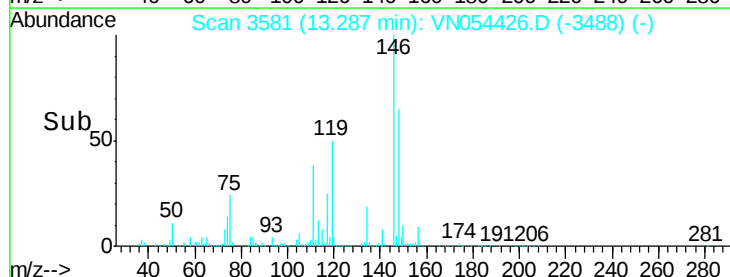
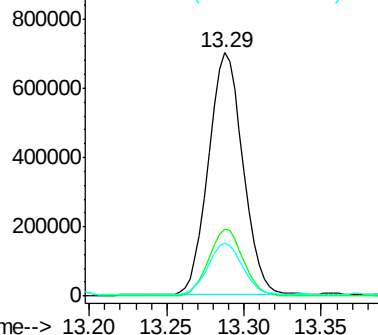
91 21.1 11.1 33.3

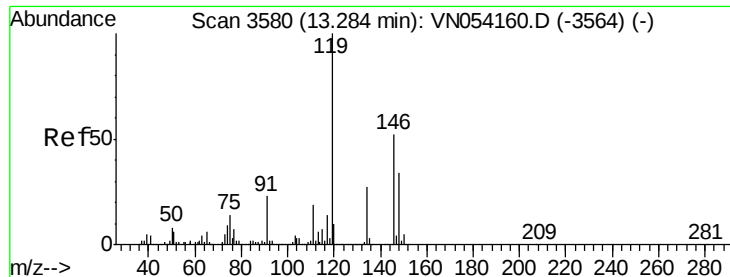


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.038 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

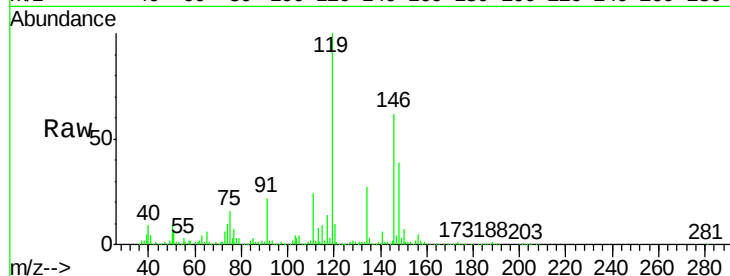
Tot Ion:146 Resp: 572324

Ion Ratio Lower Upper

146 100

111 38.0 18.8 56.3

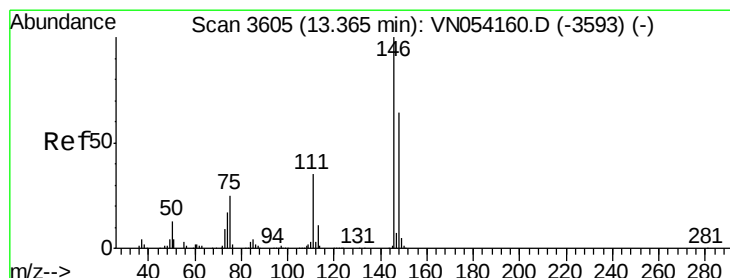
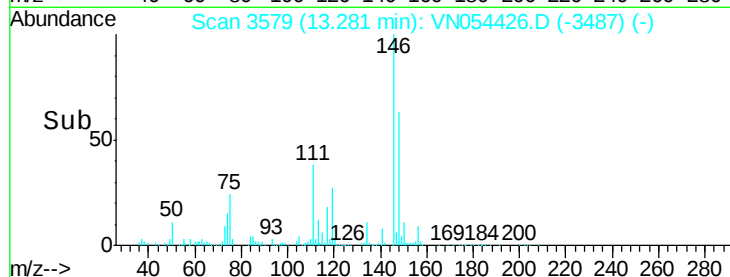
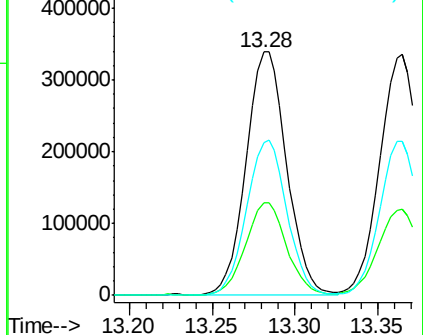
148 63.7 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 18.966 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

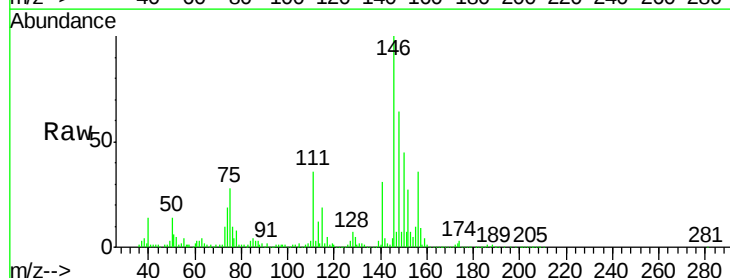
Tgt Ion:146 Resp: 560094

Ion Ratio Lower Upper

146 100

111 37.0 18.1 54.1

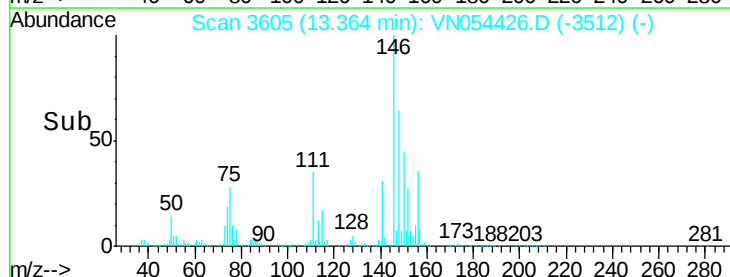
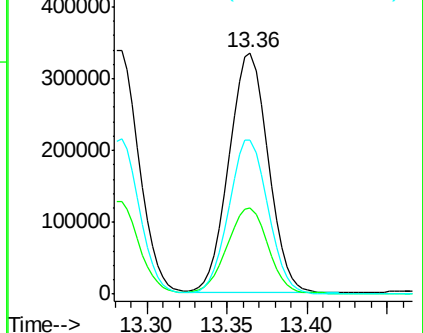
148 64.3 32.0 96.0

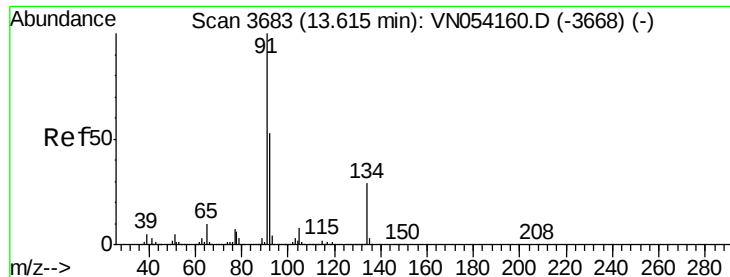


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 17.586 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

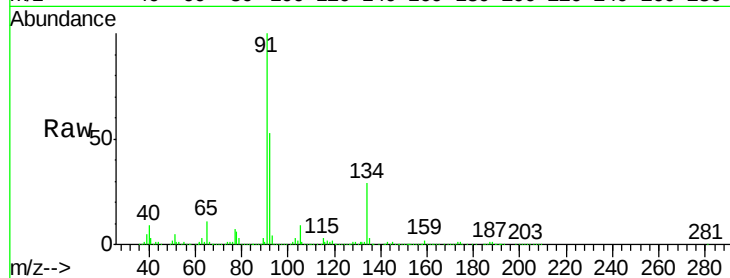
Tot Ion: 91 Resp: 784708

Ion Ratio Lower Upper

91 100

92 53.5 26.2 78.6

134 30.4 14.3 42.9

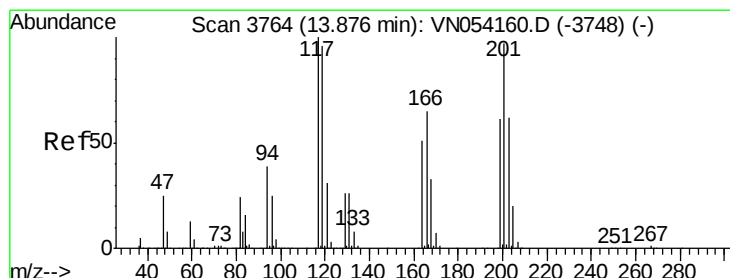
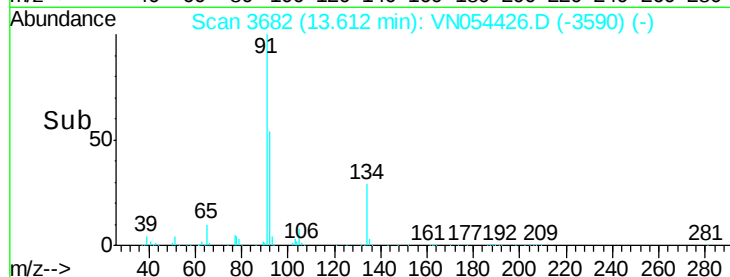


Abundance Ion 91.00 (90.70 to 91.70): VN054426.D (-3682) (-)

Ion 92.00 (91.70 to 92.70): VN054426.D (-3682) (-)

Ion 134.00 (133.70 to 134.70): VN054426.D (-3682) (-)

Time-->



#90

Hexachloroethane

Concen: 14.768 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN054426.D

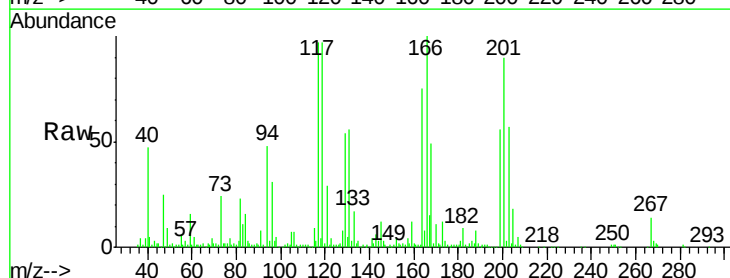
Acq: 19 Mar 2019 6:52

Tgt Ion: 117 Resp: 143608

Ion Ratio Lower Upper

117 100

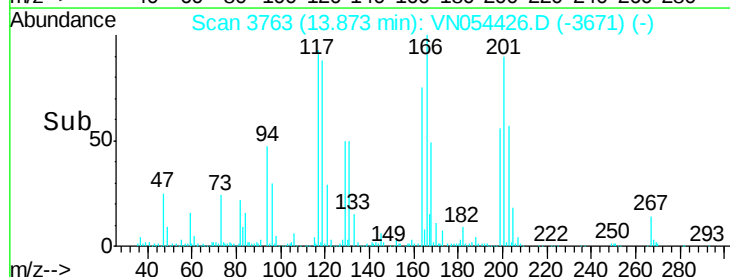
201 97.9 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): VN054426.D (-3763) (-)

Ion 200.70 (200.40 to 201.40): VN054426.D (-3763) (-)

Time-->





#91

1,2-Dichlorobenzene

Concen: 20.342 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

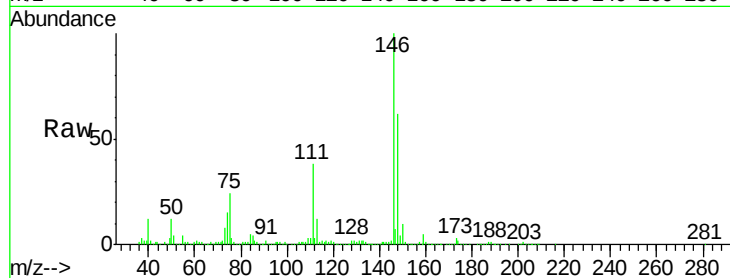
Tot Ion:146 Resp: 597810

Ion Ratio Lower Upper

146 100

111 37.6 19.1 57.3

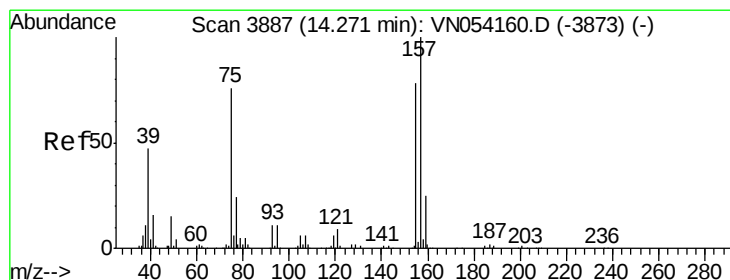
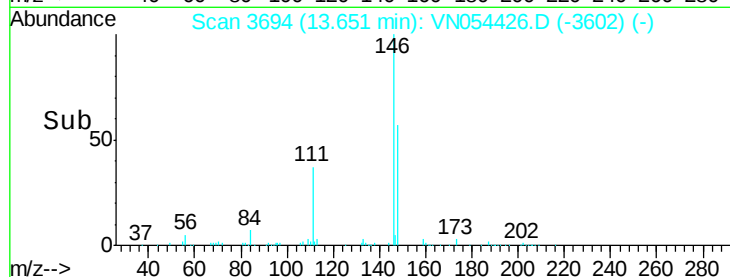
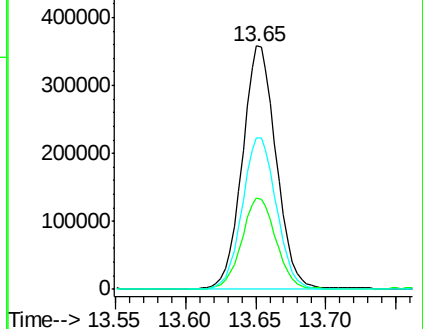
148 63.0 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.033 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

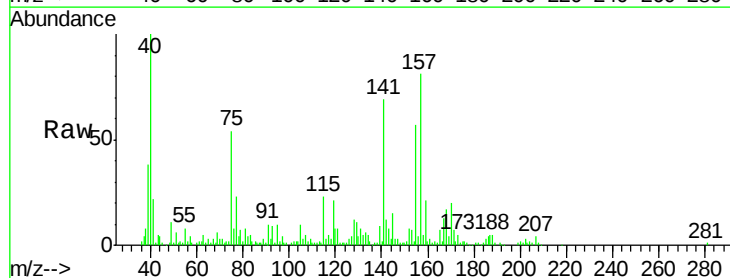
Tgt Ion: 75 Resp: 44528

Ion Ratio Lower Upper

75 100

155 97.5 50.1 150.3

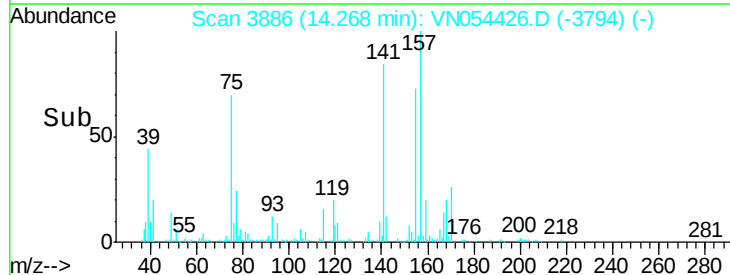
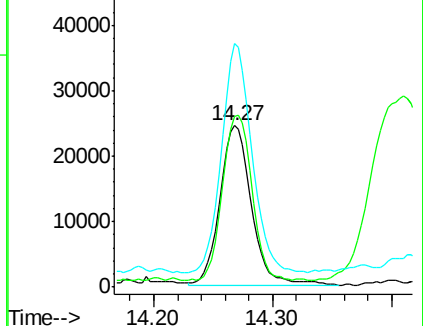
157 138.5 63.1 189.3

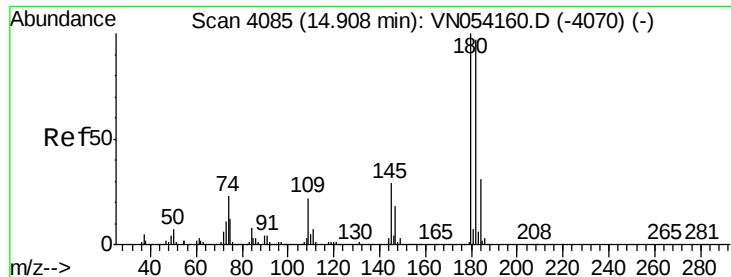


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

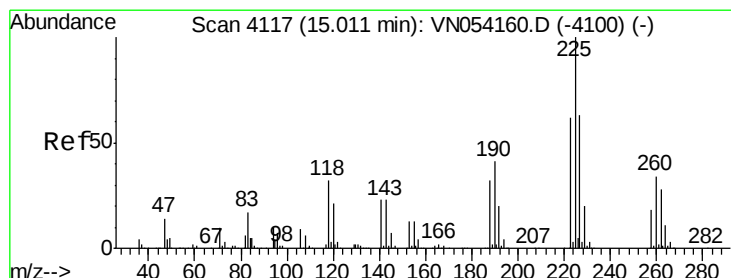
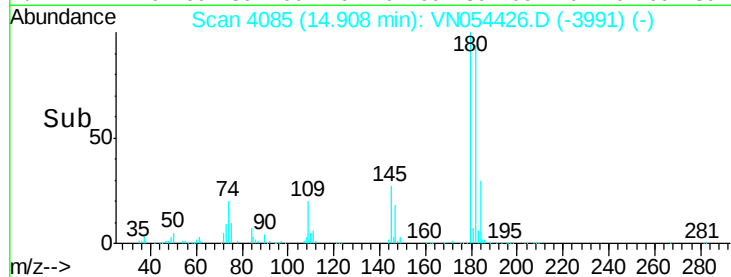
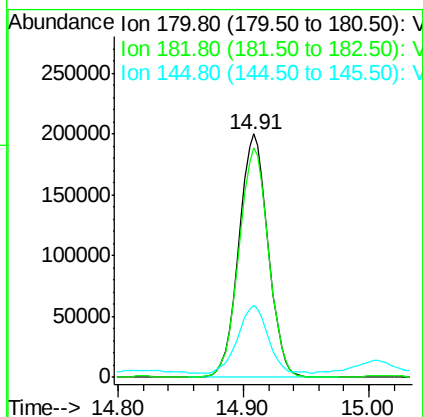
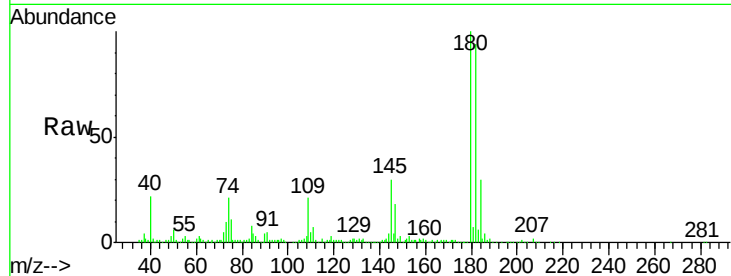




#93
 1,2,4-Trichlorobenzene
 Concen: 19.809 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

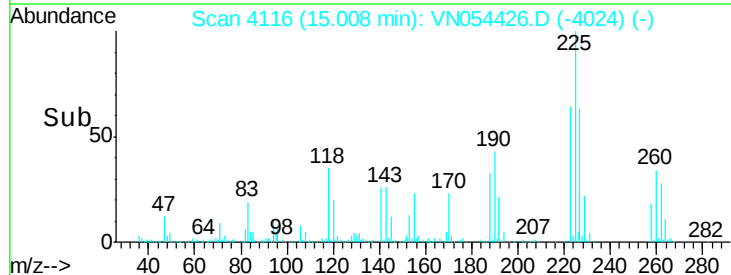
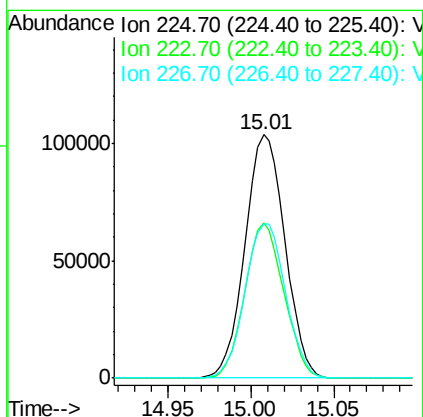
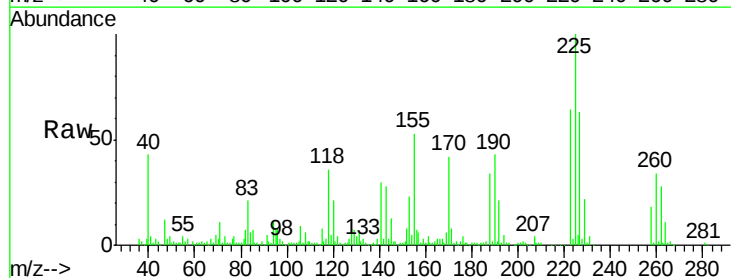
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

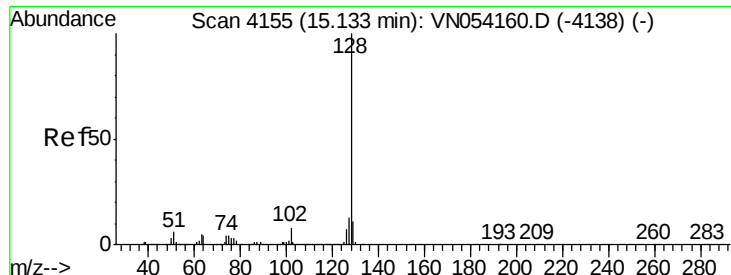
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	48.0	144.2
145	29.1	14.2	42.8



#94
 Hexachlorobutadiene
 Concen: 15.502 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.1	93.5
227	64.5	31.9	95.9





#95

Naphthalene

Concen: 24.368 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

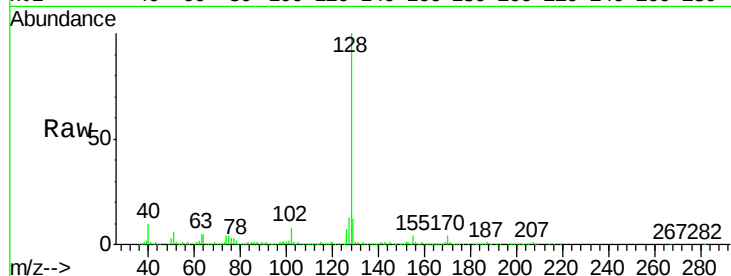
Tot Ion:128 Resp: 830017

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

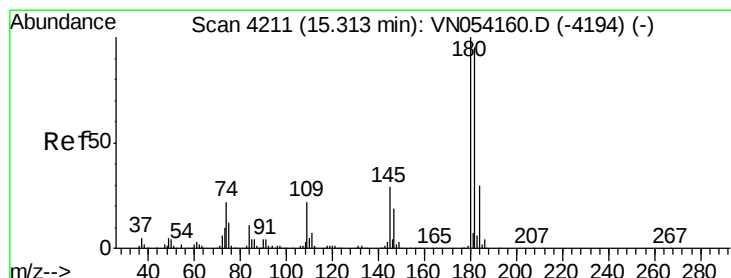
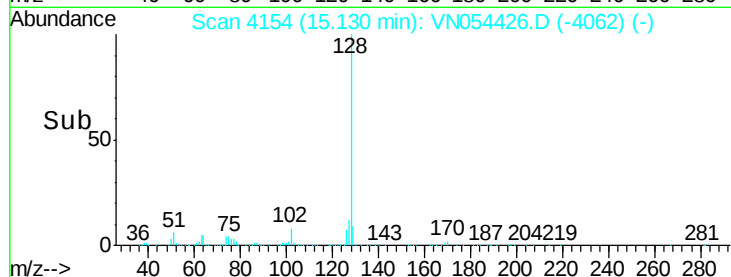
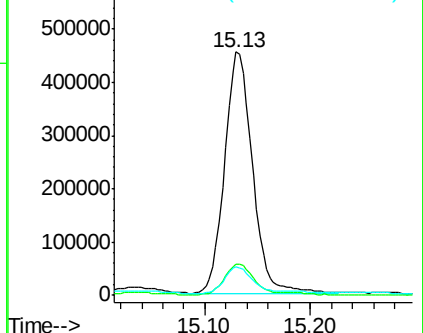
129 11.9 8.7 13.1



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: 21.387 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

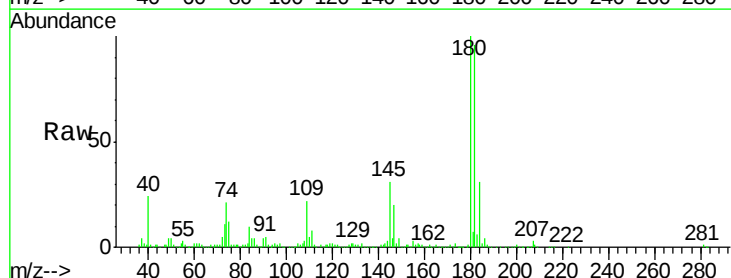
Tgt Ion:180 Resp: 333954

Ion Ratio Lower Upper

180 100

182 96.3 47.5 142.6

145 32.2 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

