

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054574.D
 Acq On : 22 Mar 2019 23:35
 Operator : JC/SP
 Sample : VN0322MBSD02
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

Quant Time: Mar 23 02:37:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	415121	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	699541	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	595217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	244024	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	297080	57.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.08%	
35) Dibromofluoromethane	7.59	113	233818	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
50) Toluene-d8	10.09	98	845178	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
62) 4-Bromofluorobenzene	12.40	95	276282	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	87832	22.133	ug/l	97
3) Chloromethane	2.06	50	120323	22.284	ug/l	100
4) Vinyl Chloride	2.19	62	112840	20.815	ug/l	100
5) Bromomethane	2.57	94	65976	18.822	ug/l	95
6) Chloroethane	2.71	64	63147	19.421	ug/l	100
7) Trichlorofluoromethane	3.02	101	138591	21.052	ug/l	98
8) Diethyl Ether	3.41	74	49035	19.367	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	3.75	101	74199	19.177	ug/l	93
10) Methyl Iodide	3.94	142	104018	18.276	ug/l #	88
11) Tert butyl alcohol	4.82	59	37593	120.257	ug/l	100
12) 1,1-Dichloroethene	3.73	96	71592	17.880	ug/l #	72
13) Acrolein	3.61	56	43323	100.424	ug/l	96
14) Allyl chloride	4.31	41	167192	22.175	ug/l #	92
15) Acrylonitrile	5.00	53	191447	122.979	ug/l	99
16) Acetone	3.82	43	139300	89.732	ug/l #	84
17) Carbon Disulfide	4.04	76	199483	18.594	ug/l	98
18) Methyl Acetate	4.33	43	85589	24.736	ug/l	90
19) Methyl tert-butyl Ether	5.05	73	265773	22.744	ug/l	92
20) Methylene Chloride	4.54	84	99875	21.825	ug/l #	81
21) trans-1,2-Dichloroethene	5.04	96	90268	22.078	ug/l #	81
22) Diisopropyl ether	5.96	45	354073	23.808	ug/l #	94
23) Vinyl Acetate	5.90	43	1248374	118.851	ug/l #	93
24) 1,1-Dichloroethane	5.84	63	185884	23.213	ug/l	99
25) 2-Butanone	6.85	43	239499	120.435	ug/l	90
26) 2,2-Dichloropropane	6.82	77	101622	17.803	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	105847	21.705	ug/l	87
28) Bromochloromethane	7.20	49	87147	22.110	ug/l #	72
29) Tetrahydrofuran	7.22	42	167554	129.839	ug/l #	84
30) Chloroform	7.37	83	178448	22.835	ug/l	100
31) Cyclohexane	7.65	56	173691	21.581	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	148085	22.969	ug/l	95
36) 1,1-Dichloropropene	7.79	75	132074	20.192	ug/l	96
37) Ethyl Acetate	6.94	43	107318	23.069	ug/l #	93
38) Carbon Tetrachloride	7.77	117	126908	19.966	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	139853	18.692	ug/l	89
40) Benzene	8.04	78	397772	21.267	ug/l	98
41) Methacrylonitrile	7.18	41	62952	22.189	ug/l #	88
42) 1,2-Dichloroethane	8.13	62	146082	21.447	ug/l	98
43) Isopropyl Acetate	8.17	43	179495	22.846	ug/l #	94
44) Trichloroethene	8.83	130	105503	20.289	ug/l	100
45) 1,2-Dichloropropane	9.12	63	114266	22.752	ug/l	97
46) Dibromomethane	9.21	93	64564	21.549	ug/l	89
47) Bromodichloromethane	9.40	83	133583	21.483	ug/l	95
48) Methyl methacrylate	9.20	41	89168	20.911	ug/l	90
49) 1,4-Dioxane	9.20	88	20291	425.637	ug/l #	82
51) 4-Methyl-2-Pentanone	9.99	43	515546	118.403	ug/l	93
52) Toluene	10.16	92	237381	20.635	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	114688	18.936	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	145150	20.358	ug/l #	90
55) 1,1,2-Trichloroethane	10.56	97	89254	21.584	ug/l	96
56) Ethyl methacrylate	10.43	69	115358	20.785	ug/l #	82
57) 1,3-Dichloropropane	10.71	76	156567	21.781	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	218252	95.497	ug/l #	89
59) 2-Hexanone	10.75	43	315930	111.083	ug/l	91
60) Dibromochloromethane	10.90	129	90492	20.566	ug/l	99
61) 1,2-Dibromoethane	11.01	107	86380	21.130	ug/l	99
64) Tetrachloroethene	10.63	164	100363	20.328	ug/l	96
65) Chlorobenzene	11.43	112	251657	20.788	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	95431	21.962	ug/l	98
67) Ethyl Benzene	11.51	91	434675	20.327	ug/l	100
68) m/p-Xylenes	11.62	106	325618	40.200	ug/l	96
69) o-Xylene	11.95	106	161927	20.470	ug/l	98
70) Styrene	11.96	104	261029	20.320	ug/l	96
71) Bromoform	12.13	173	53945	19.428	ug/l #	100
73) Isopropylbenzene	12.25	105	419267	21.322	ug/l	98
74) N-amyl acetate	12.07	43	134012	23.702	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	109572	24.410	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	124372	32.118	ug/l #	100
77) Bromobenzene	12.53	156	103388	21.199	ug/l	86
78) n-propylbenzene	12.59	91	458263	21.492	ug/l	96
79) 2-Chlorotoluene	12.67	91	283806	21.344	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	343868	21.337	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	19484	19.417	ug/l #	75
82) 4-Chlorotoluene	12.77	91	272616	21.151	ug/l	96
83) tert-Butylbenzene	12.99	119	299650	21.360	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	332115	21.002	ug/l	99
85) sec-Butylbenzene	13.17	105	369908	21.153	ug/l	97
86) p-Isopropyltoluene	13.29	119	323684	20.689	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	171099	21.171	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	161631	20.555	ug/l	98
89) n-Butylbenzene	13.61	91	240300	19.643	ug/l	98
90) Hexachloroethane	13.87	117	52298	21.535	ug/l	86
91) 1,2-Dichlorobenzene	13.65	146	170744	21.812	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15557	23.628	ug/l	80

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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	76060	19.491	ug/l	99
94) Hexachlorobutadiene	15.01	225	48220	20.532	ug/l	99
95) Naphthalene	15.13	128	185381	21.298	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	80484	20.723	ug/l	99

(#) = 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: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

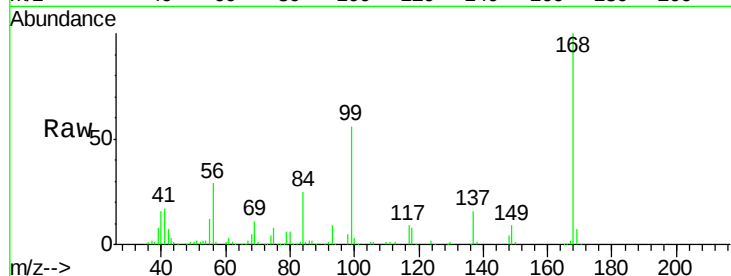
VN0322MBSD02

Tot Ion:168 Resp: 415121

Ion Ratio Lower Upper

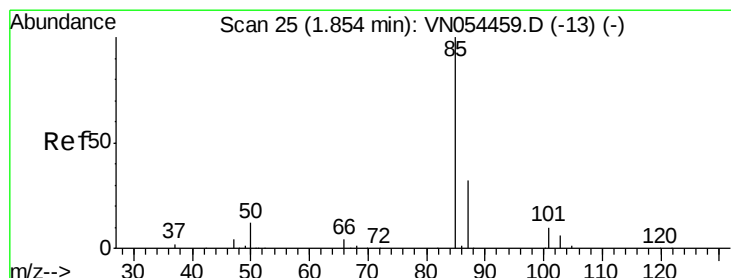
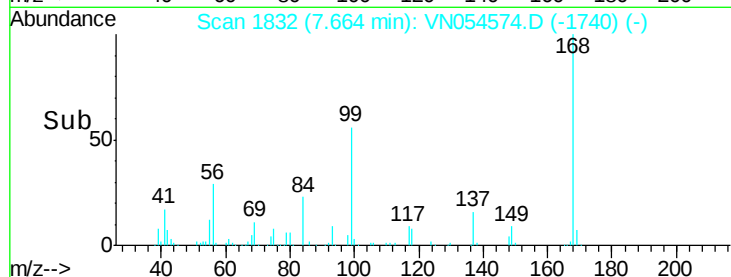
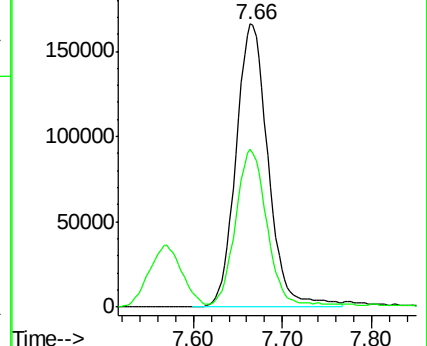
168 100

99 55.0 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: 22.133 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054574.D

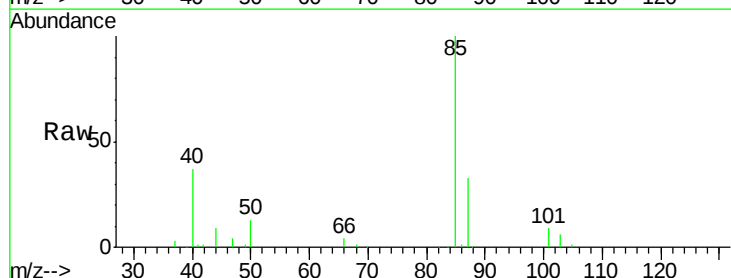
Acq: 22 Mar 2019 23:35

Tgt Ion: 85 Resp: 87832

Ion Ratio Lower Upper

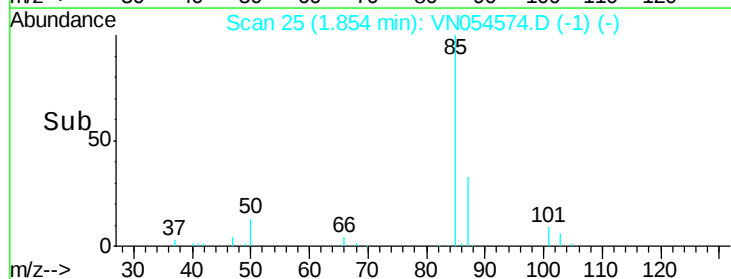
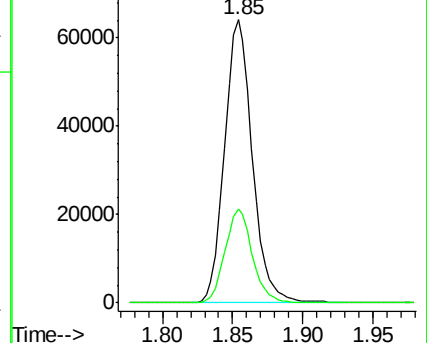
85 100

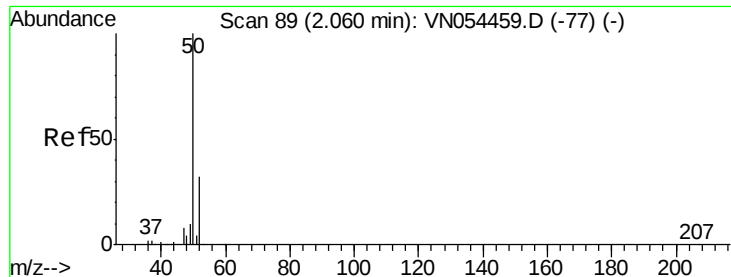
87 33.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 22.284 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

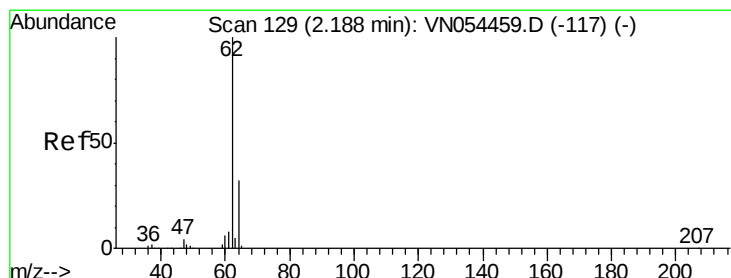
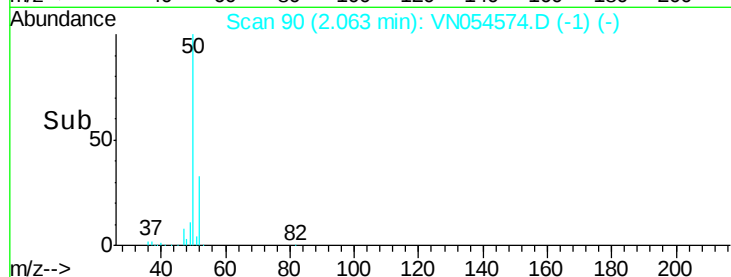
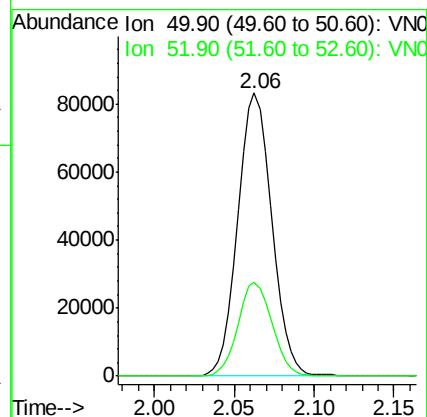
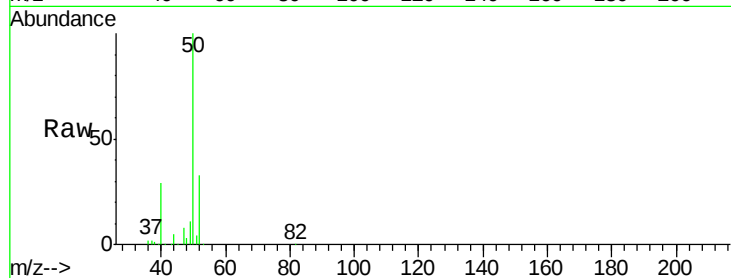
VN0322MBSD02

Tot Ion: 50 Resp: 120323

Ion Ratio Lower Upper

50 100

52 33.2 26.4 39.6



#4

Vinyl Chloride

Concen: 20.815 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054574.D

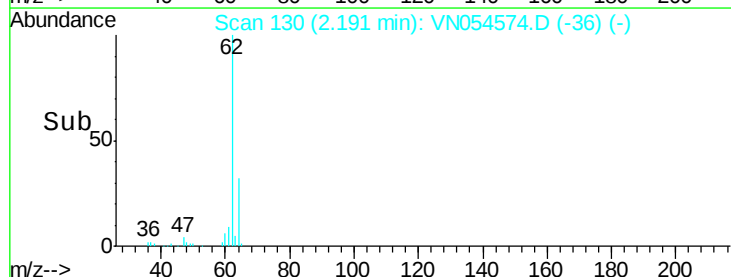
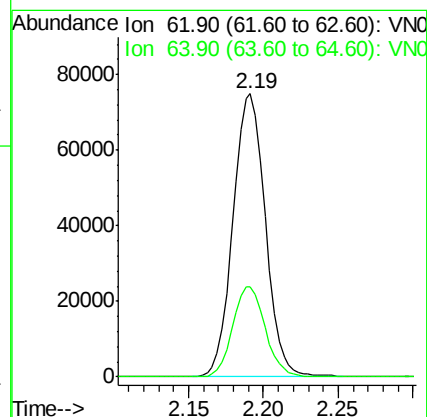
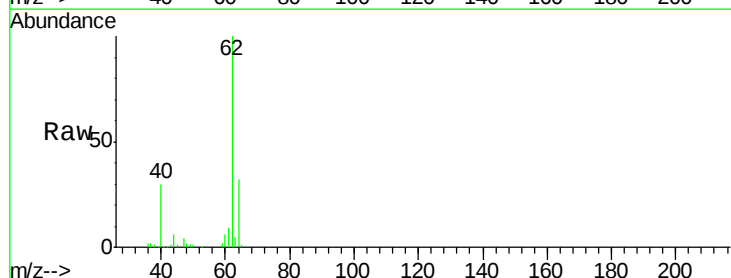
Acq: 22 Mar 2019 23:35

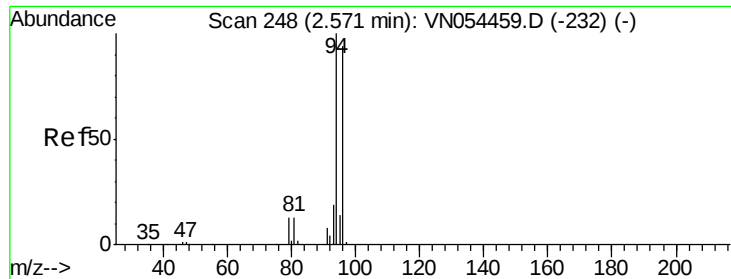
Tgt Ion: 62 Resp: 112840

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3





#5

Bromomethane

Concen: 18.822 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

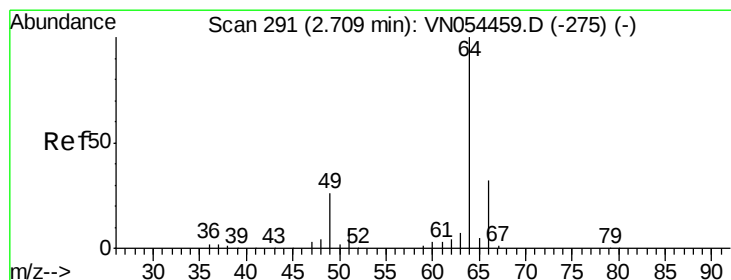
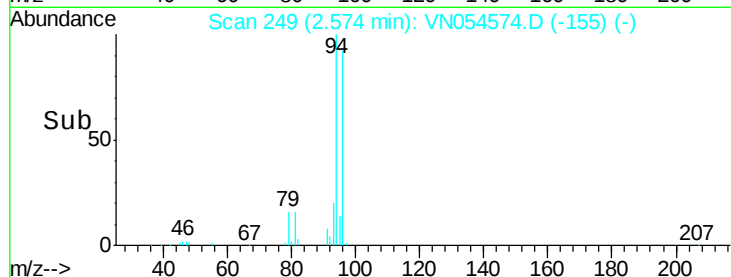
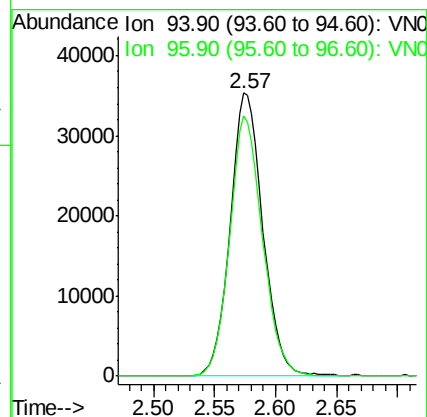
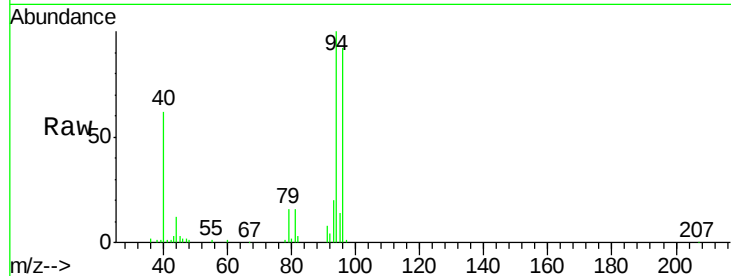
VN0322MBSD02

Tot Ion: 94 Resp: 65976

Ion Ratio Lower Upper

94 100

96 91.8 77.0 115.4



#6

Chloroethane

Concen: 19.421 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054574.D

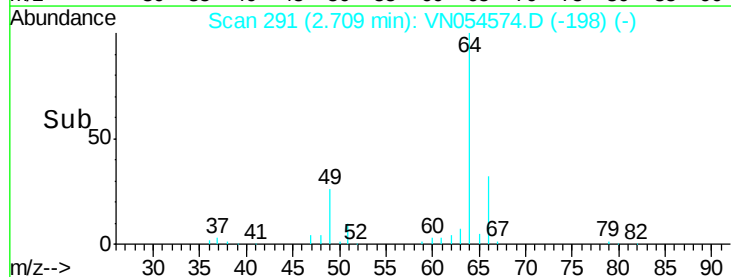
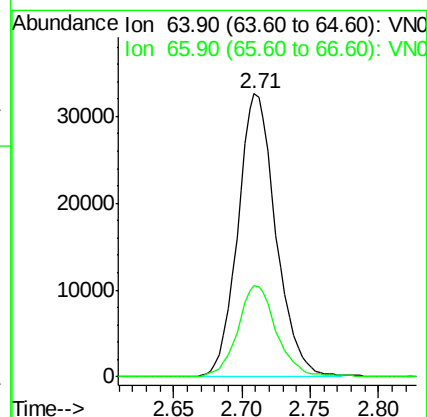
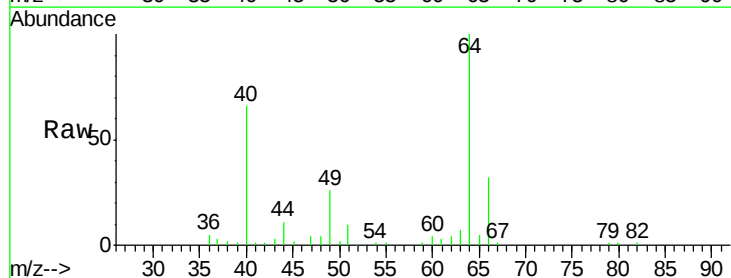
Acq: 22 Mar 2019 23:35

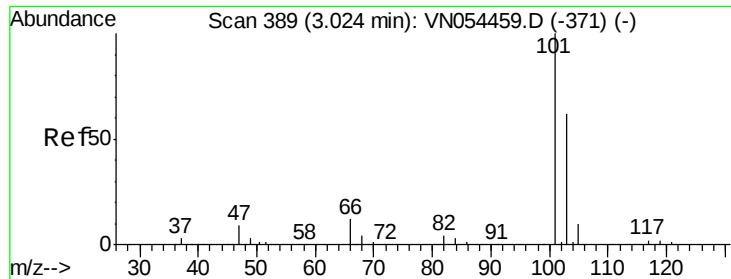
Tgt Ion: 64 Resp: 63147

Ion Ratio Lower Upper

64 100

66 32.2 25.7 38.5



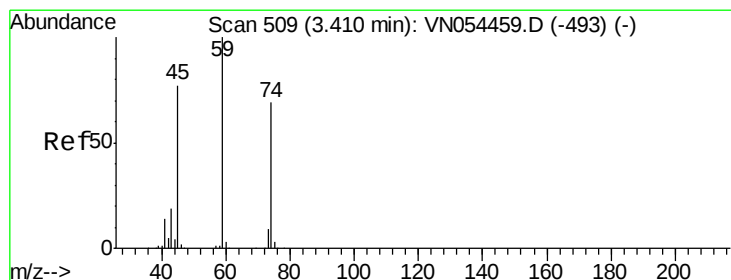
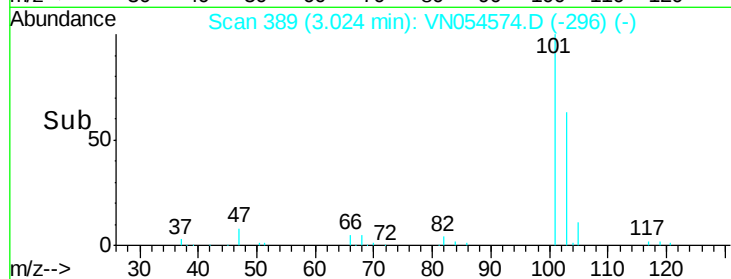
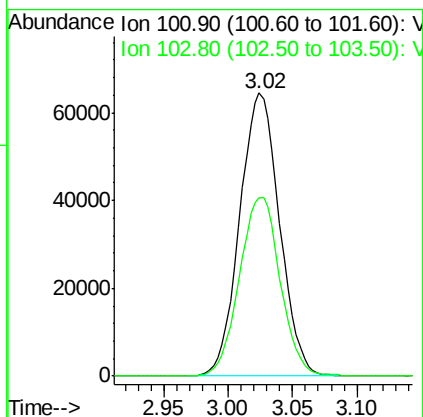
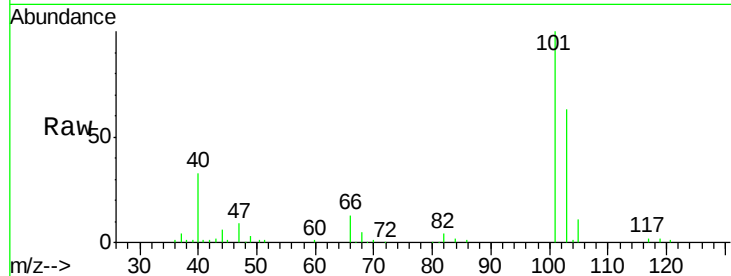


#7

Trichlorofluoromethane
Concen: 21.052 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Instrument :
MSVOA_N
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VN0322MBSD02

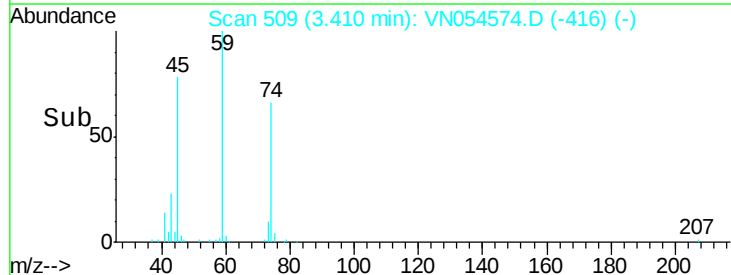
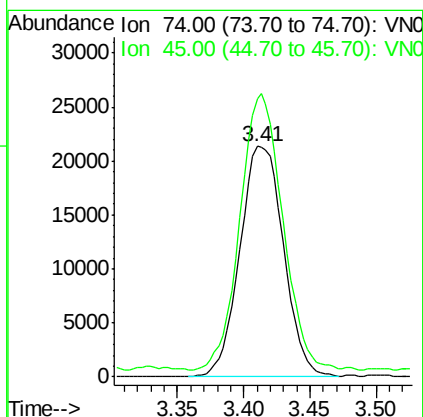
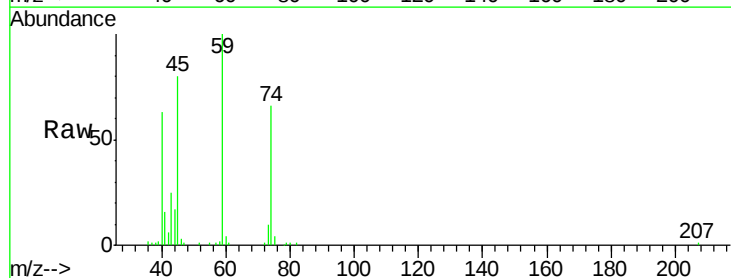
Tot Ion:101 Resp: 138591
Ion Ratio Lower Upper
101 100
103 63.0 51.4 77.2

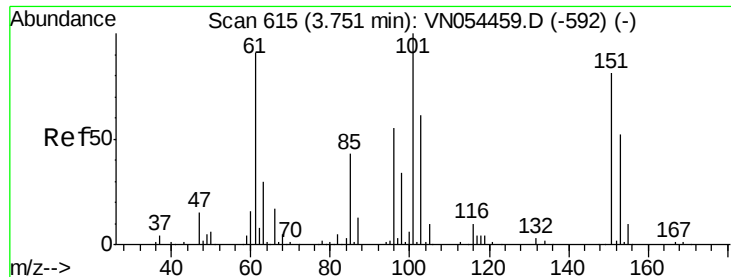


#8

Diethyl Ether
Concen: 19.367 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 74 Resp: 49035
Ion Ratio Lower Upper
74 100
45 116.7 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.177 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

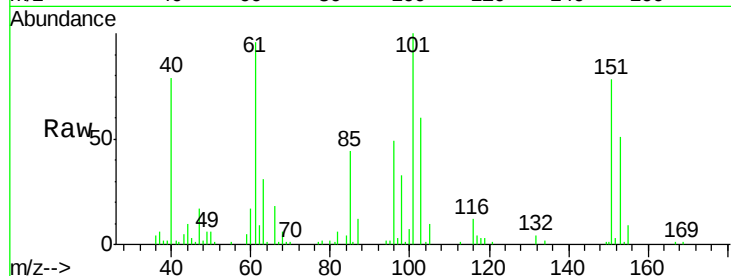
Tot Ion:101 Resp: 74199

Ion Ratio Lower Upper

101 100

85 44.1 32.4 48.6

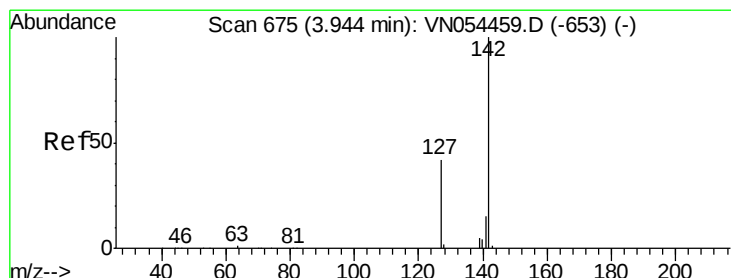
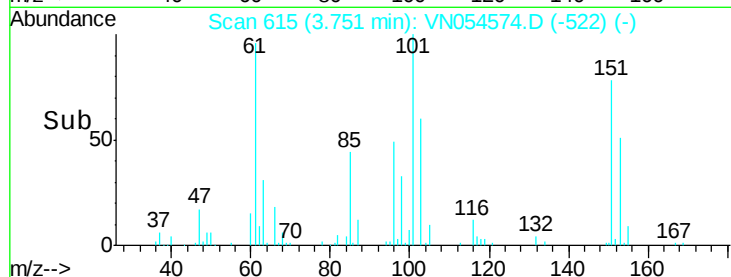
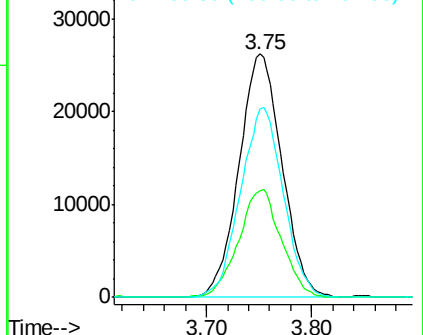
151 77.8 68.2 102.2



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: 18.276 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

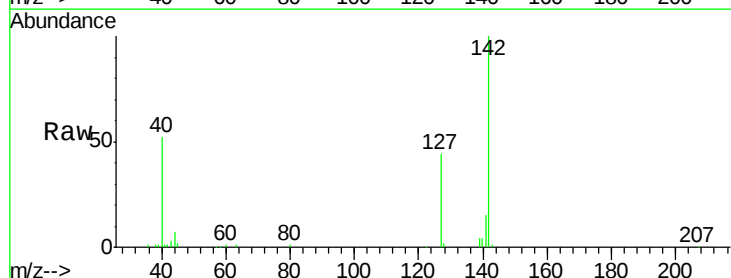
Tgt Ion:142 Resp: 104018

Ion Ratio Lower Upper

142 100

127 47.4 30.3 45.5#

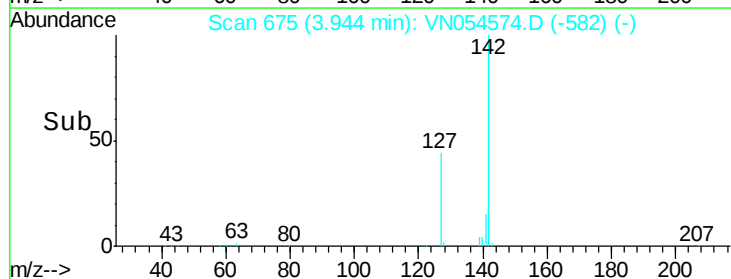
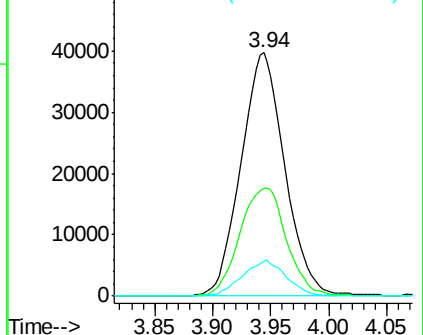
141 14.9 11.2 16.8

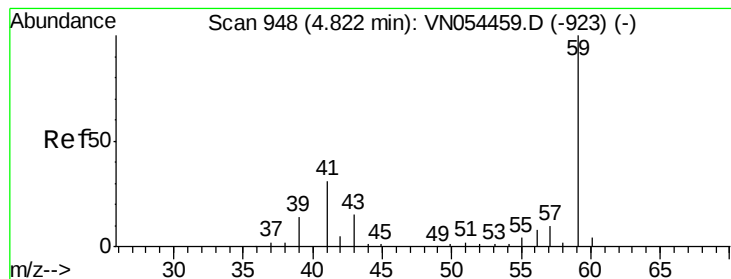


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



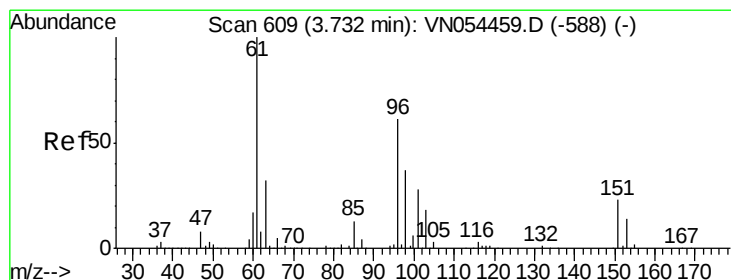
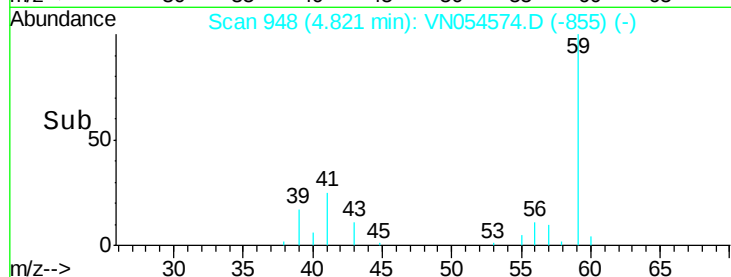
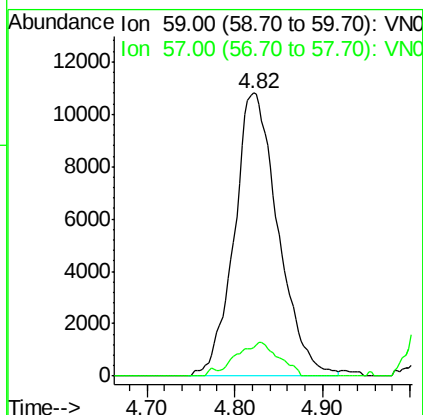
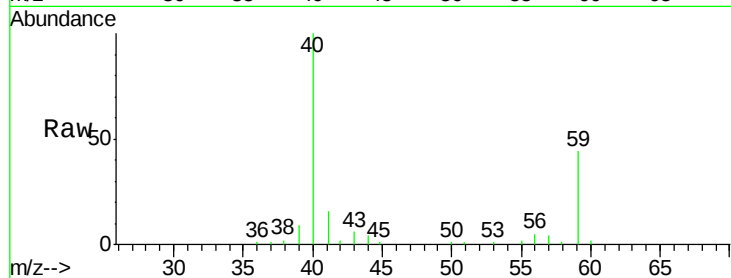


#11

Tert butyl alcohol
 Concen: 120.257 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

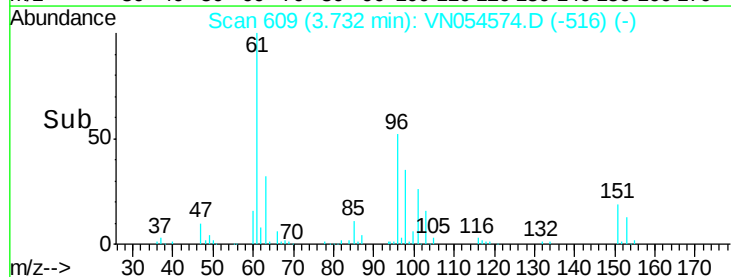
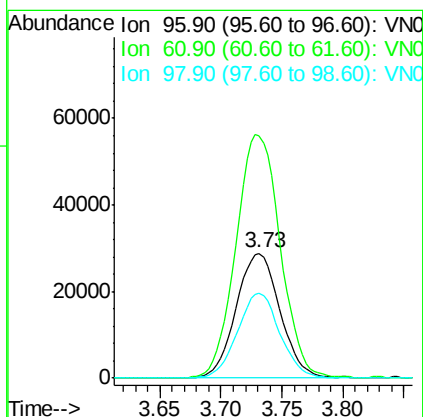
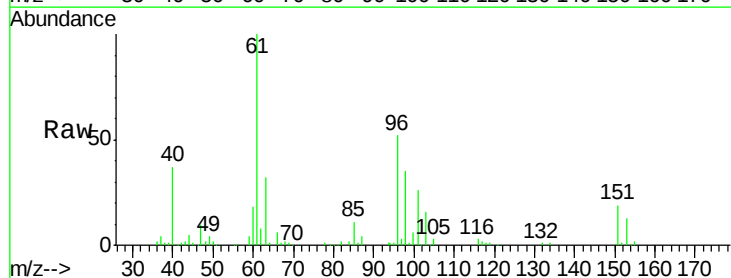
Tot Ion: 59 Resp: 37593
 Ion Ratio Lower Upper
 59 100
 57 11.2 9.0 13.6

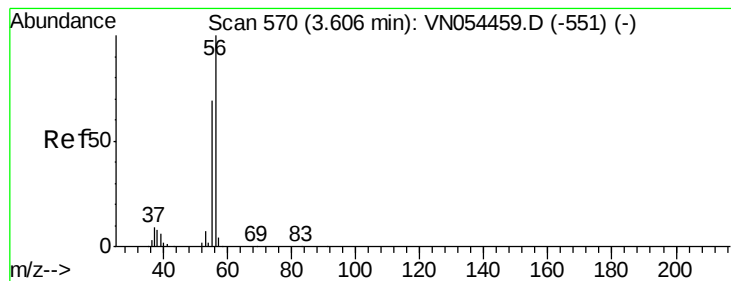


#12

1,1-Dichloroethene
 Concen: 17.880 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Tgt Ion: 96 Resp: 71592
 Ion Ratio Lower Upper
 96 100
 61 192.8 116.5 174.7#
 98 67.3 51.0 76.4





#13

Acrolein

Concen: 100.424 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

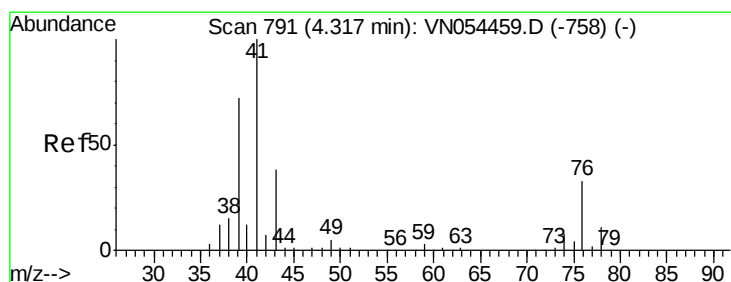
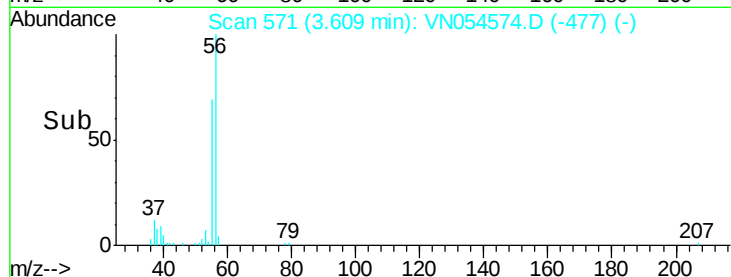
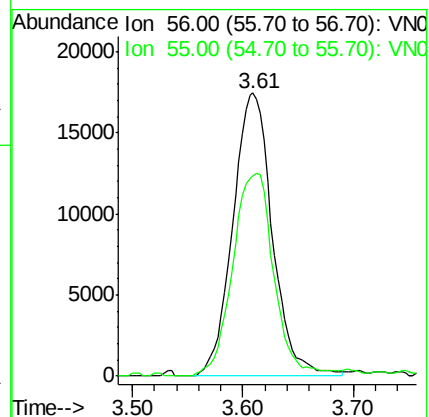
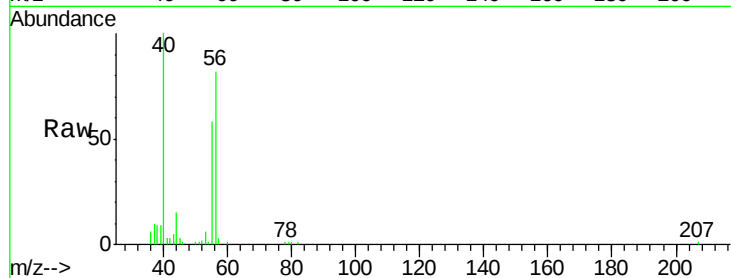
VN0322MBSD02

Tot Ion: 56 Resp: 43323

Ion Ratio Lower Upper

56 100

55 74.0 56.7 85.1



#14

Allyl chloride

Concen: 22.175 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

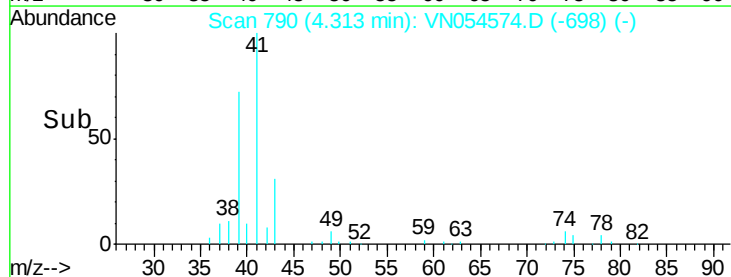
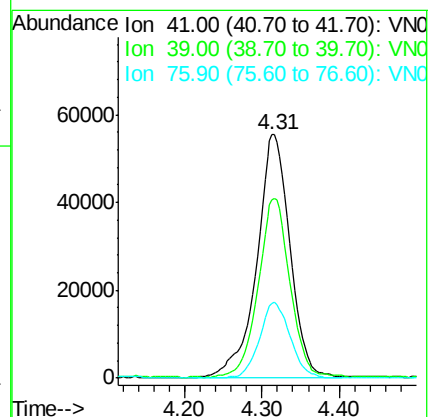
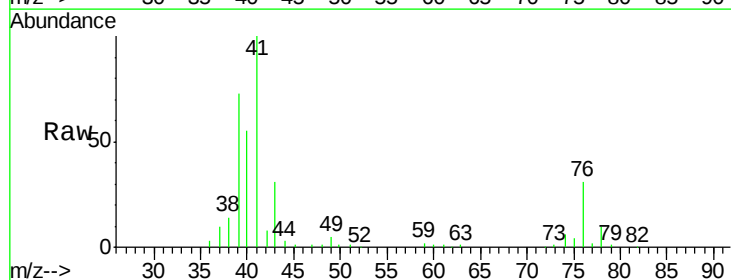
Tgt Ion: 41 Resp: 167192

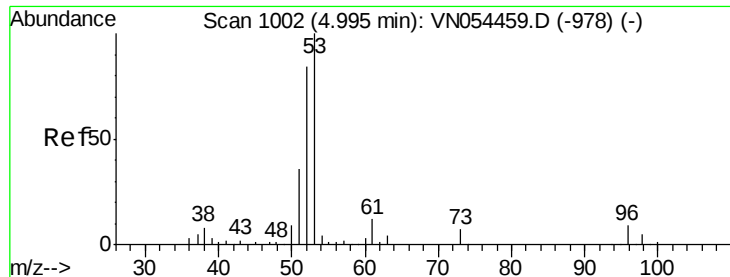
Ion Ratio Lower Upper

41 100

39 70.8 58.2 87.4

76 28.5 31.7 47.5#





#15

Acrylonitrile

Concen: 122.979 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

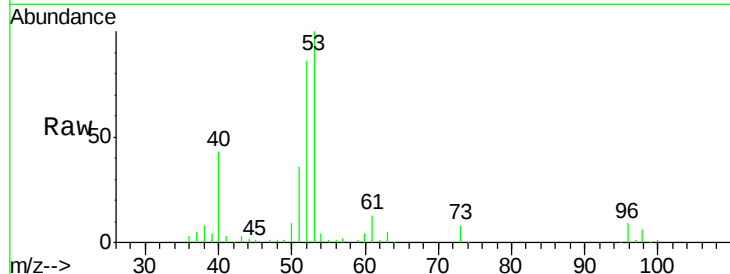
Tot Ion: 53 Resp: 191447

Ion Ratio Lower Upper

53 100

52 84.1 66.4 99.6

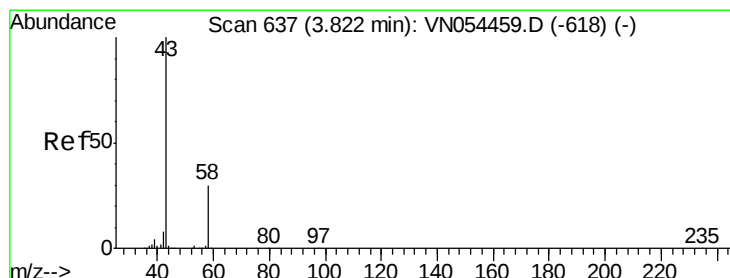
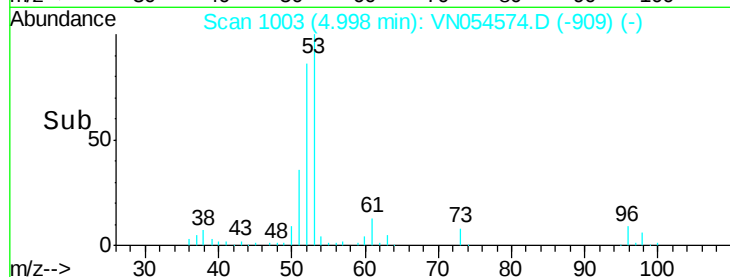
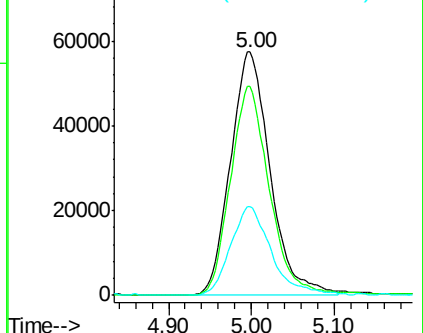
51 37.4 29.6 44.4



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: 89.732 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054574.D

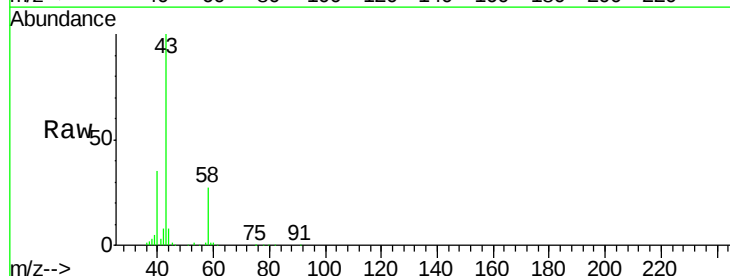
Acq: 22 Mar 2019 23:35

Tgt Ion: 43 Resp: 139300

Ion Ratio Lower Upper

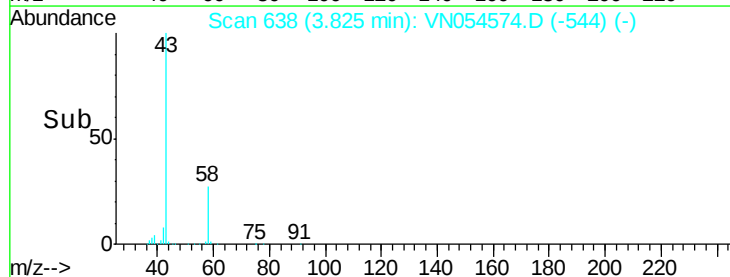
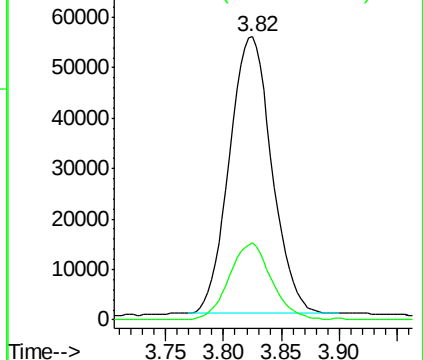
43 100

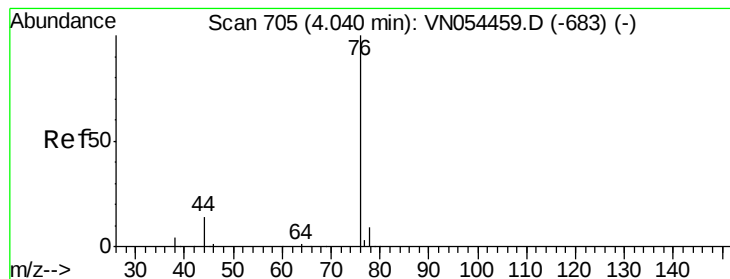
58 27.8 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 18.594 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

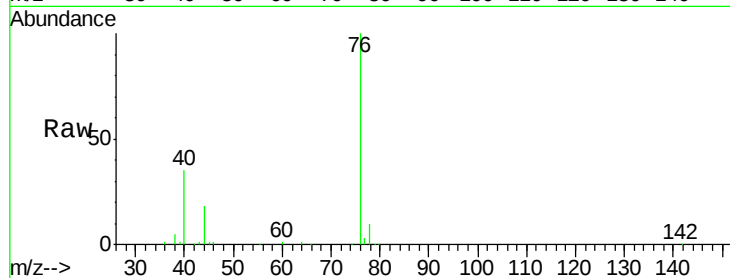
VN0322MBSD02

Tot Ion: 76 Resp: 199483

Ion Ratio Lower Upper

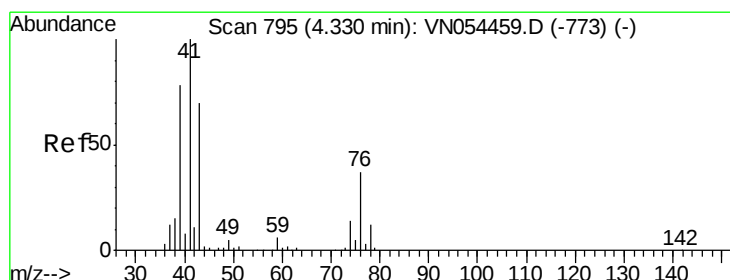
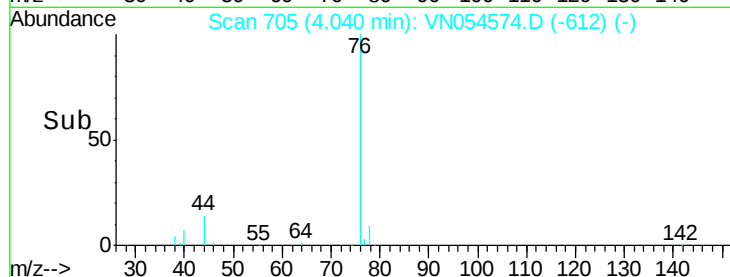
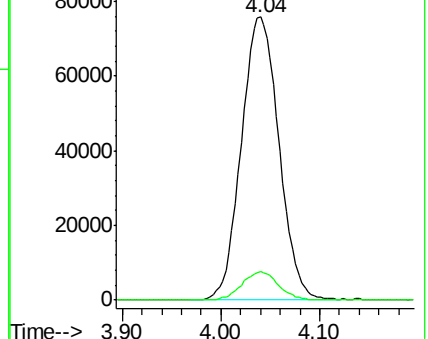
76 100

78 10.0 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 24.736 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054574.D

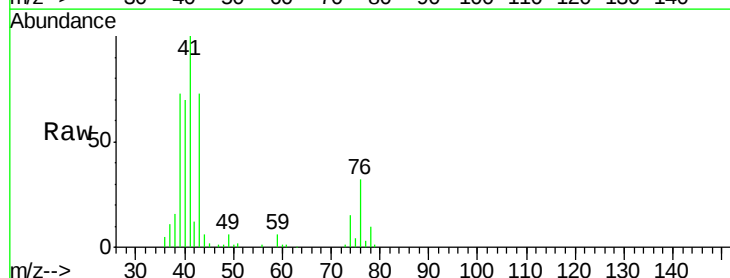
Acq: 22 Mar 2019 23:35

Tgt Ion: 43 Resp: 85589

Ion Ratio Lower Upper

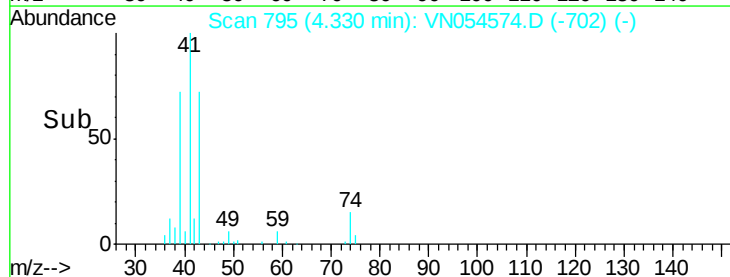
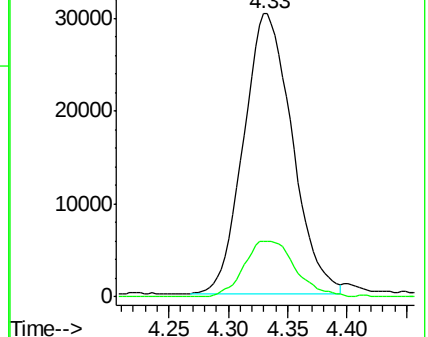
43 100

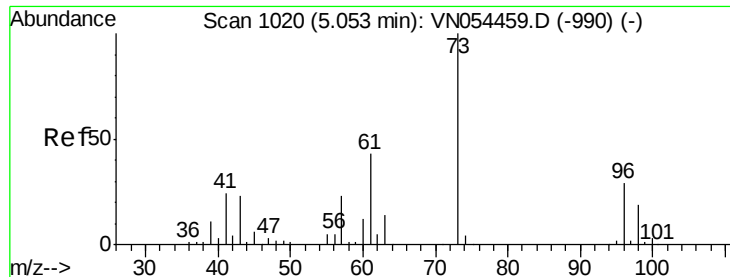
74 21.1 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

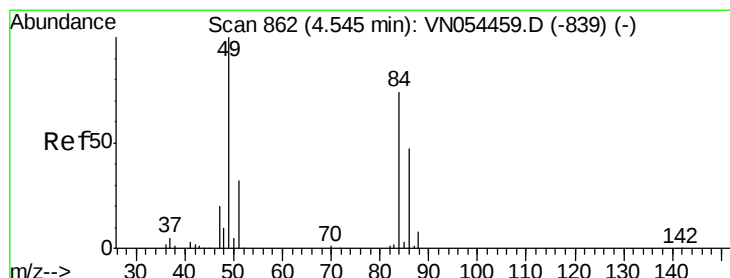
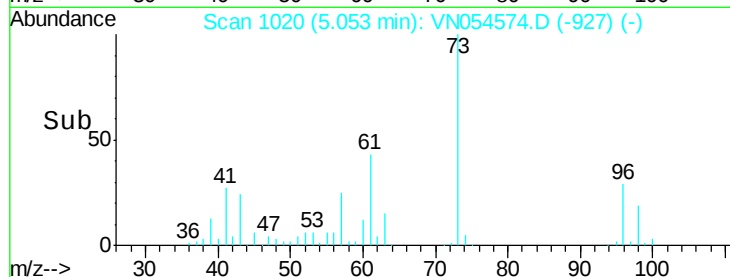
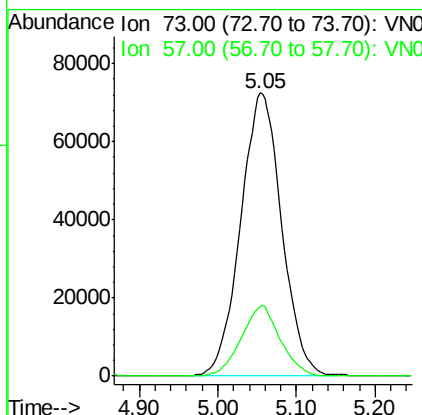
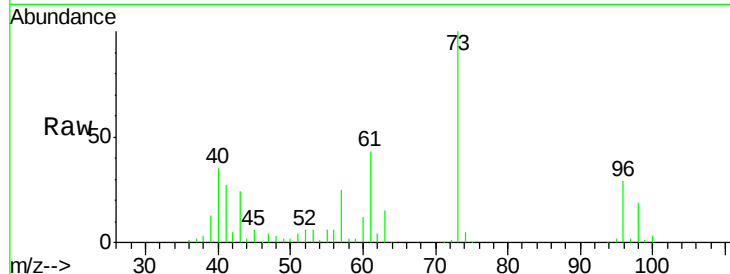




#19
Methvl tert-butvl Ether
Concen: 22.744 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

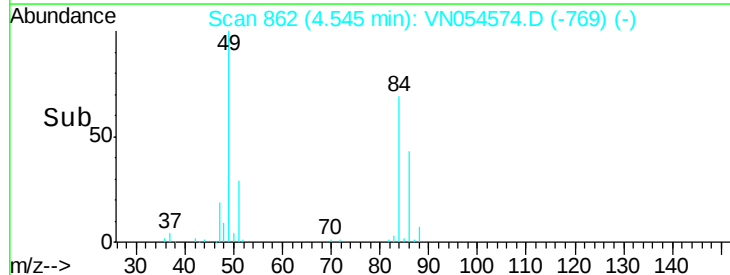
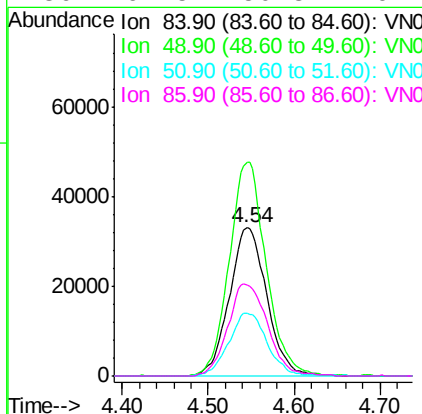
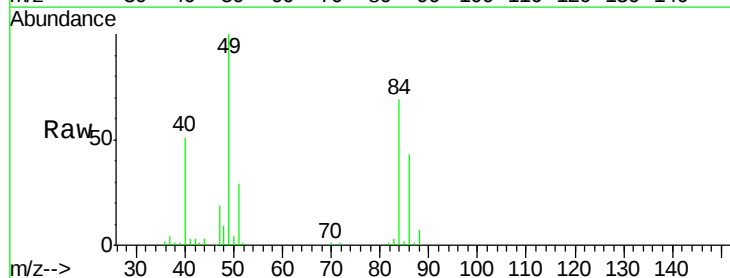
Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

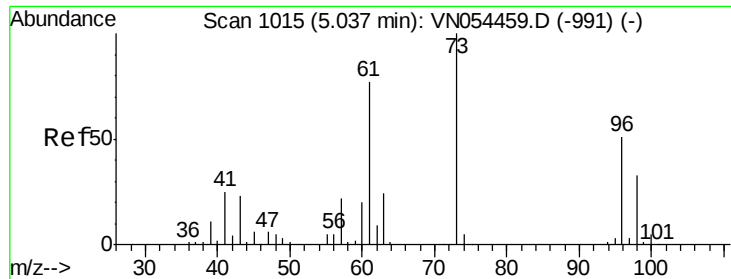
Tot Ion: 73 Resp: 265773
Ion Ratio Lower Upper
73 100
57 24.6 16.8 25.2



#20
Methylene Chloride
Concen: 21.825 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 84 Resp: 99875
Ion Ratio Lower Upper
84 100
49 144.2 89.7 134.5#
51 42.4 28.2 42.4#
86 61.5 50.8 76.2

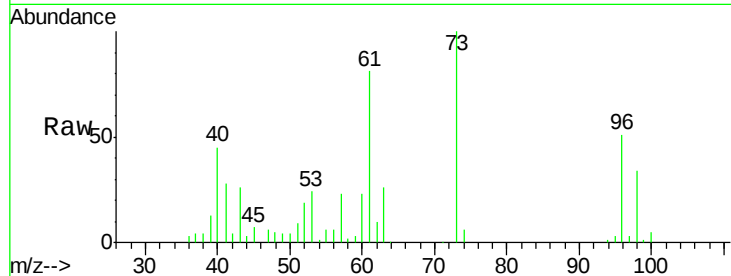




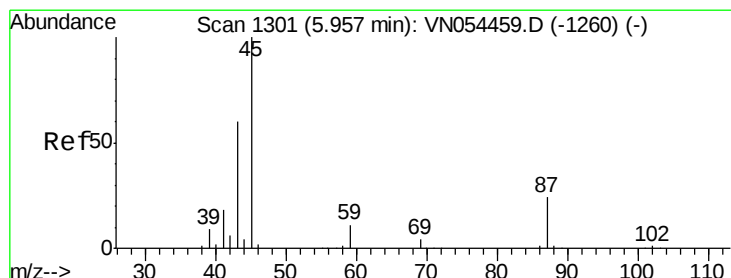
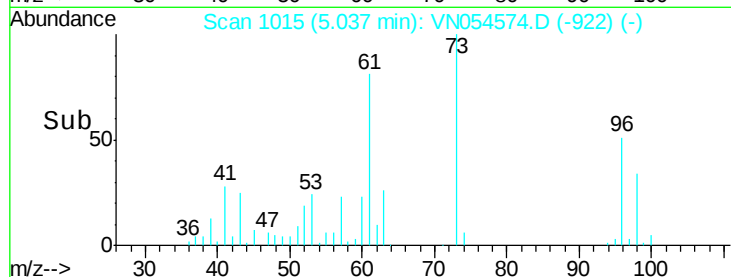
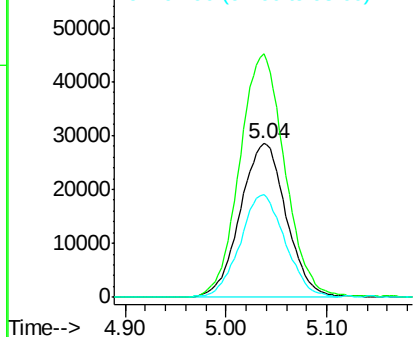
#21
trans-1,2-Dichloroethene
Concen: 22.078 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

Tot Ion: 96 Resp: 90268
Ion Ratio Lower Upper
96 100
61 158.2 102.8 154.2#
98 66.7 50.0 75.0

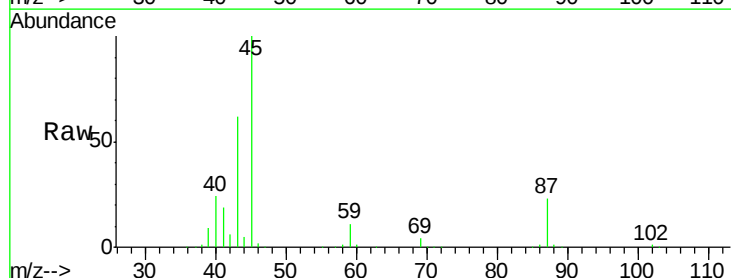


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

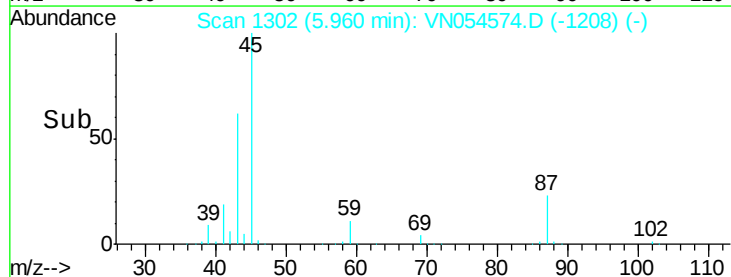
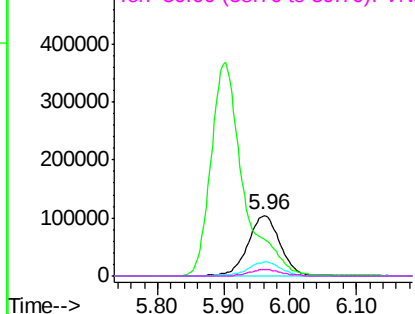


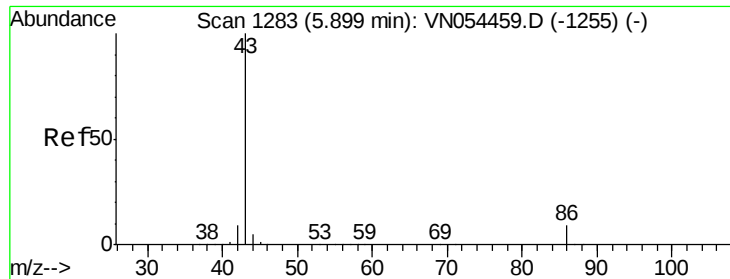
#22
Diisopropyl ether
Concen: 23.808 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 45 Resp: 354073
Ion Ratio Lower Upper
45 100
43 59.6 48.2 72.2
87 22.3 24.9 37.3#
59 10.6 9.5 14.3



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





#23

Vinyl Acetate

Concen: 118.851 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleID :

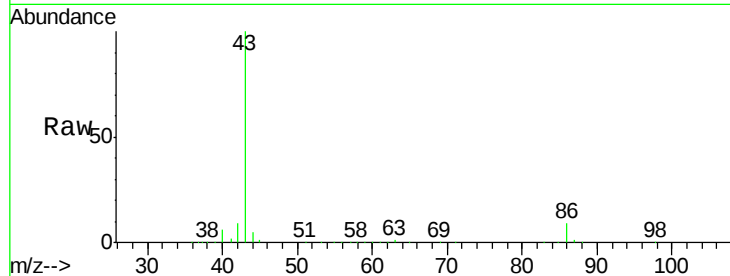
VN0322MBSD02

Tot Ion: 43 Resp: 1248374

Ion Ratio Lower Upper

43 100

86 8.7 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

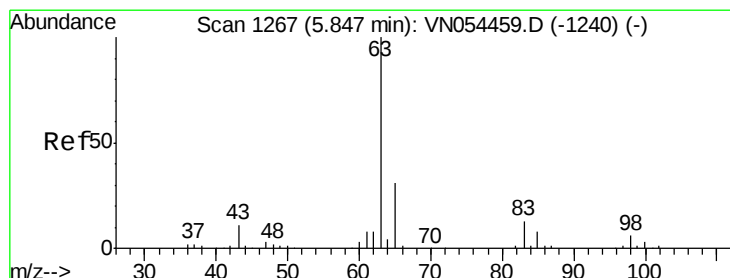
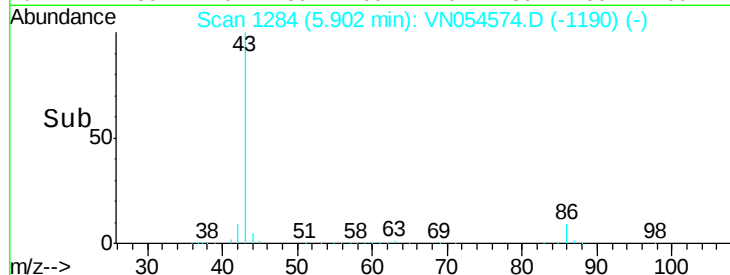
300000

200000

100000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 23.213 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

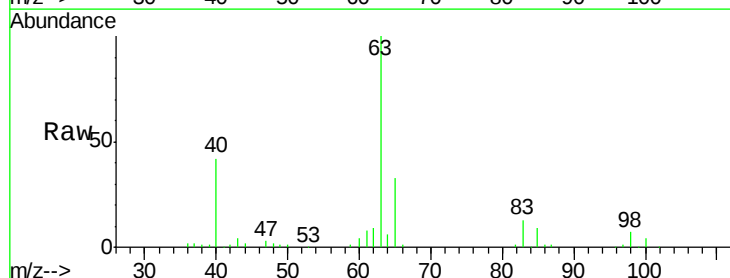
Tgt Ion: 63 Resp: 185884

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.5

100 4.1 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

80000

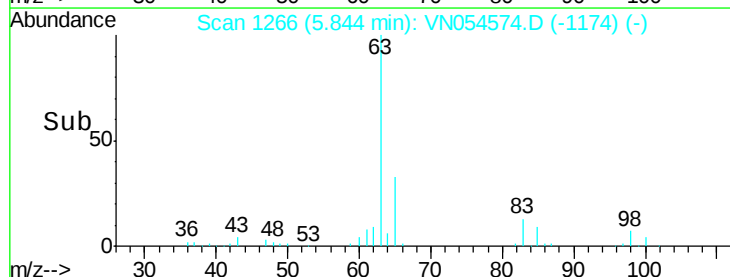
60000

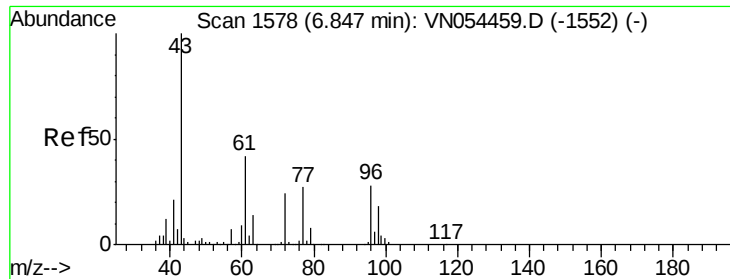
40000

20000

0

Time--> 5.70 5.80 5.90





#25

2-Butanone

Concen: 120.435 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

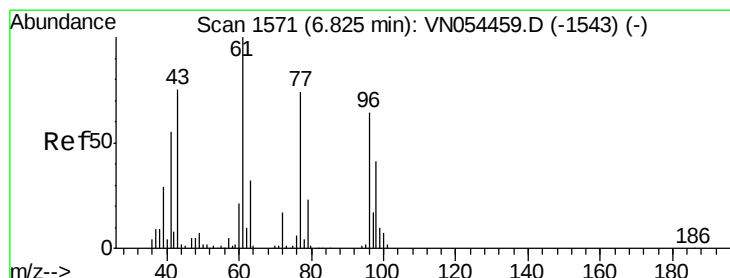
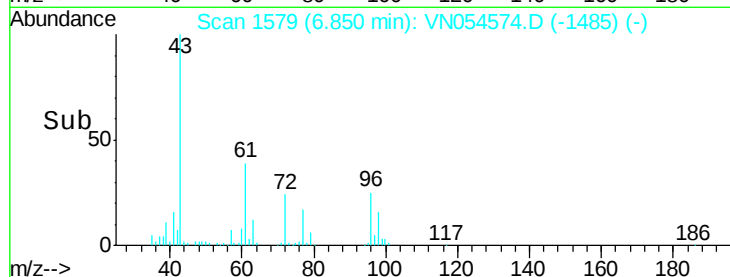
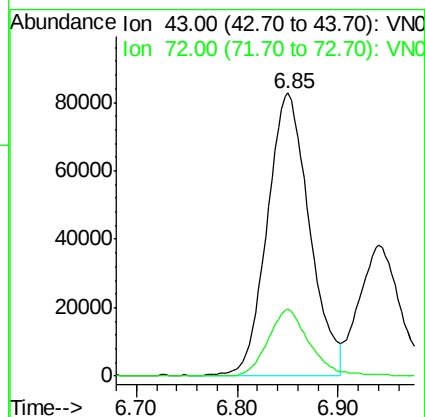
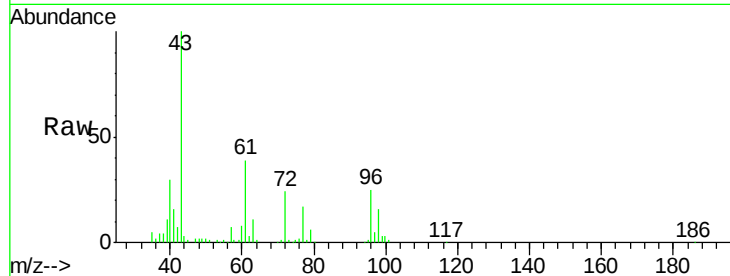
VN0322MBSD02

Tot Ion: 43 Resp: 239499

Ion Ratio Lower Upper

43 100

72 23.6 23.0 34.6



#26

2,2-Dichloropropane

Concen: 17.803 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054574.D

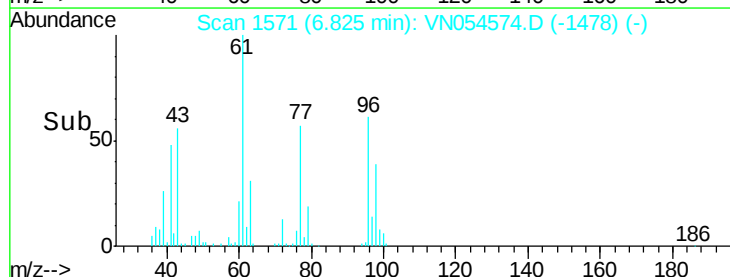
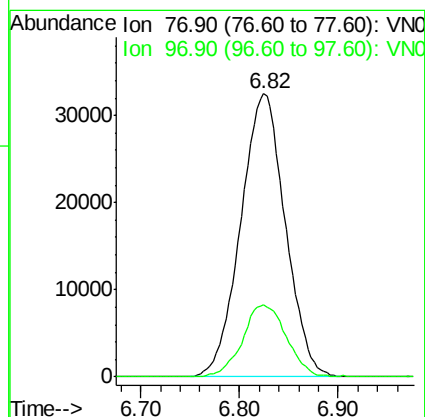
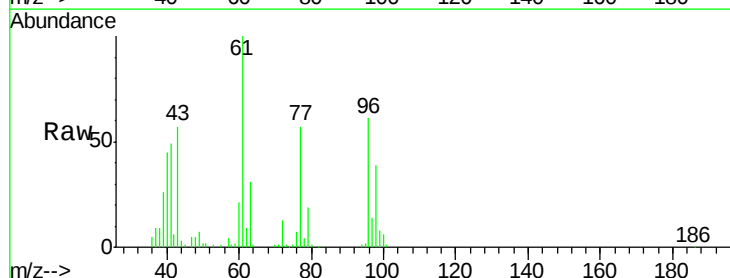
Acq: 22 Mar 2019 23:35

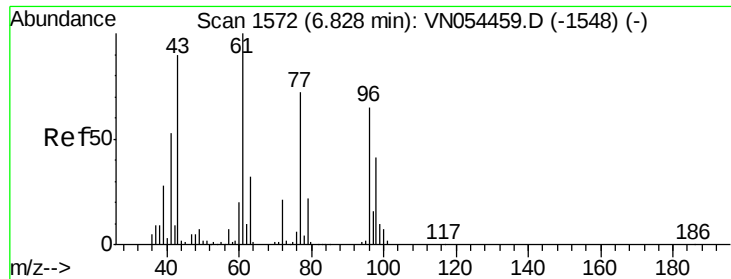
Tgt Ion: 77 Resp: 101622

Ion Ratio Lower Upper

77 100

97 24.9 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.705 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

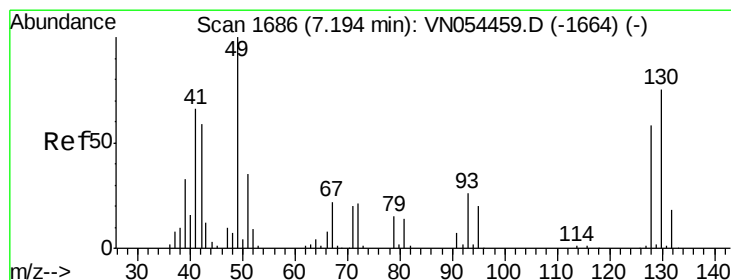
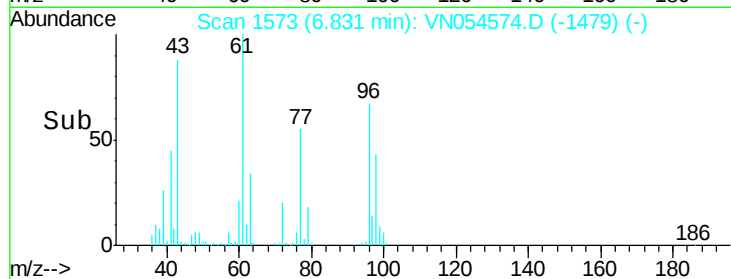
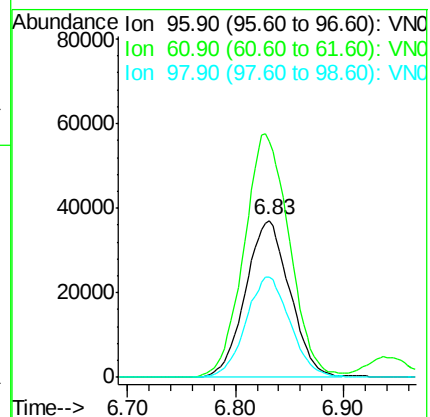
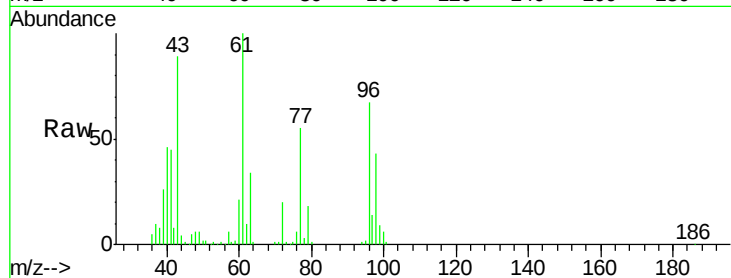
Tot Ion: 96 Resp: 105847

Ion Ratio Lower Upper

96 100

61 158.8 0.0 273.0

98 64.2 0.0 130.6



#28

Bromochloromethane

Concen: 22.110 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

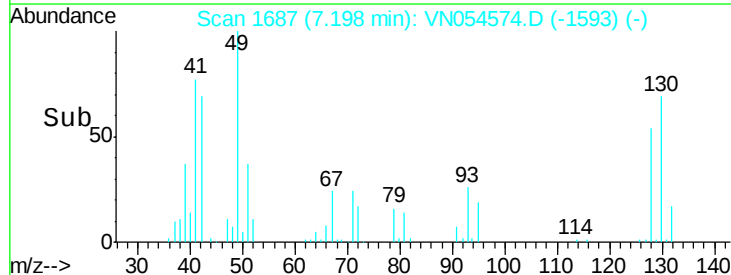
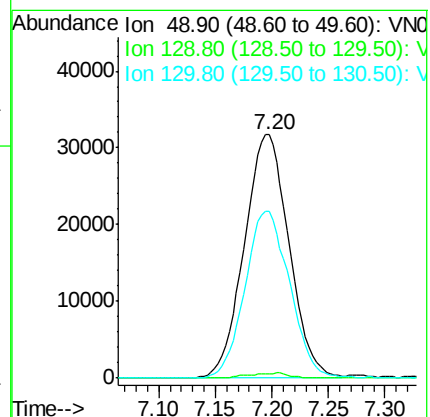
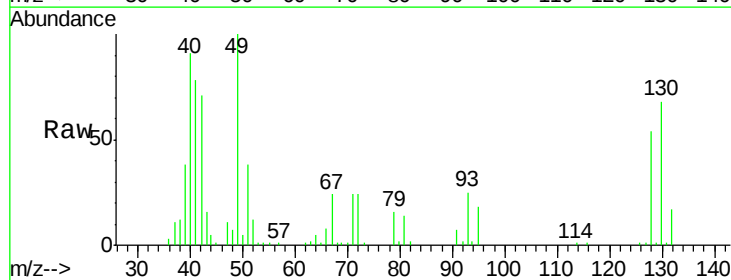
Tgt Ion: 49 Resp: 87147

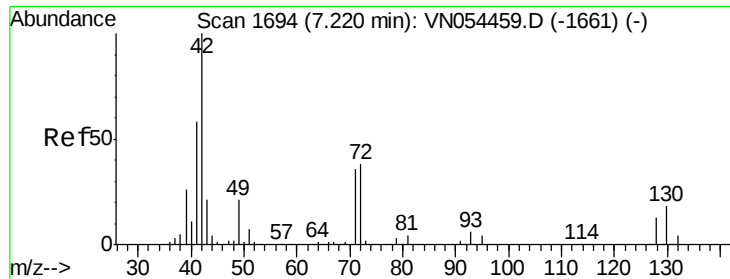
Ion Ratio Lower Upper

49 100

129 1.0 0.0 4.6

130 68.3 76.7 115.1#





#29

Tetrahydrofuran

Concen: 129.839 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

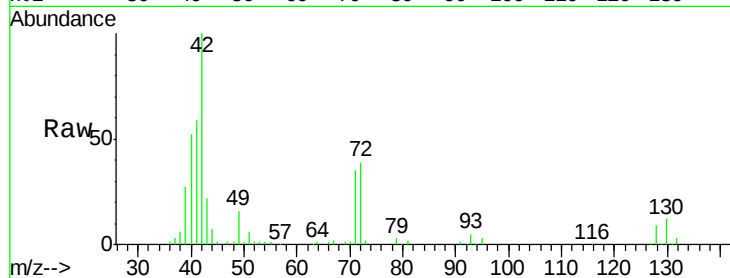
Tot Ion: 42 Resp: 167554

Ion Ratio Lower Upper

42 100

72 36.8 37.8 56.6#

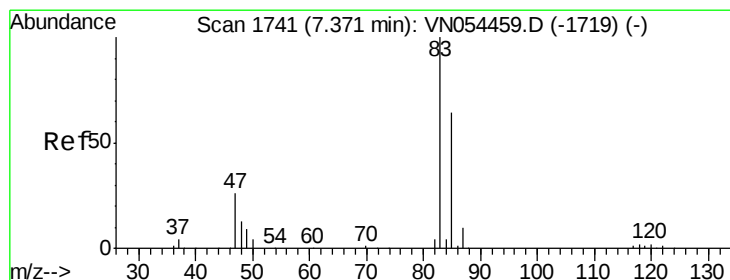
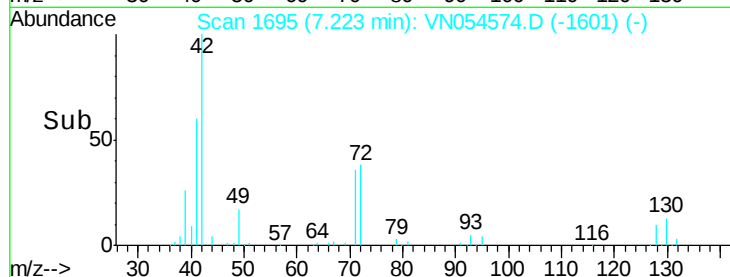
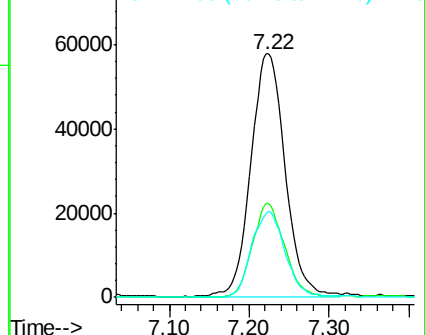
71 34.5 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 22.835 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN054574.D

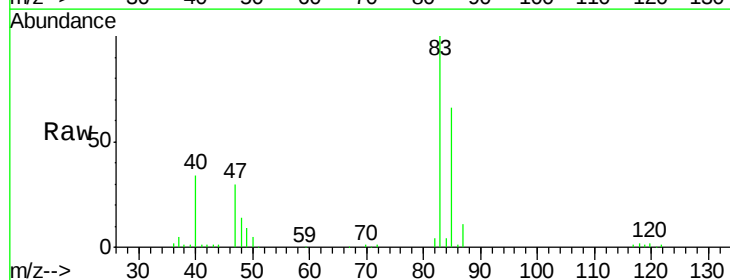
Acq: 22 Mar 2019 23:35

Tgt Ion: 83 Resp: 178448

Ion Ratio Lower Upper

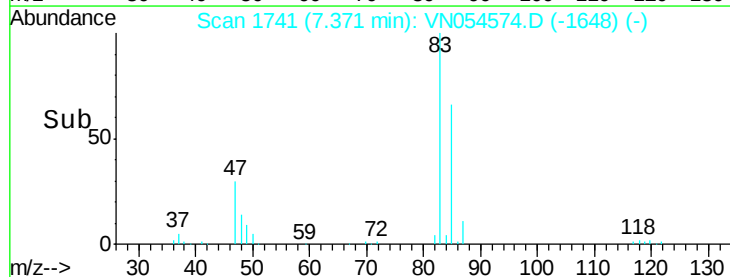
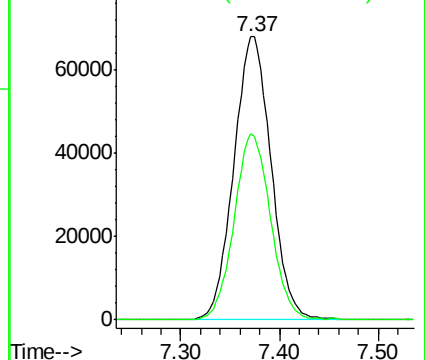
83 100

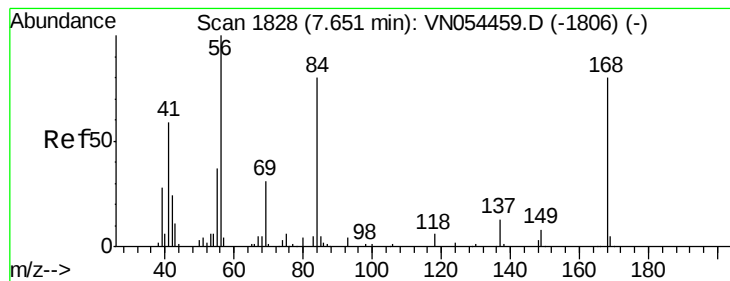
85 65.6 52.2 78.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 21.581 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

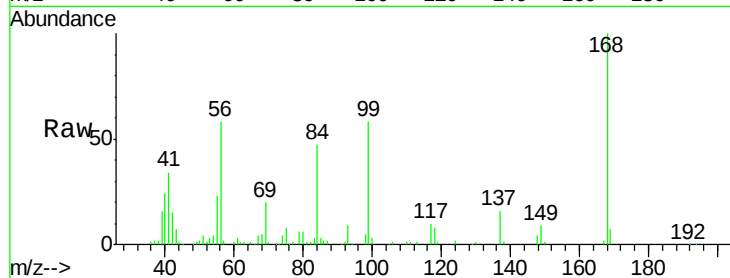
Tot Ion: 56 Resp: 173691

Ion Ratio Lower Upper

56 100

69 33.9 27.8 41.6

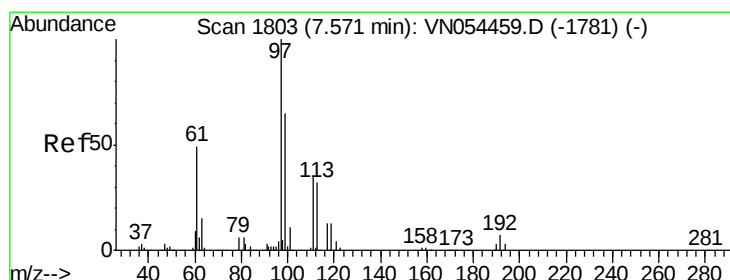
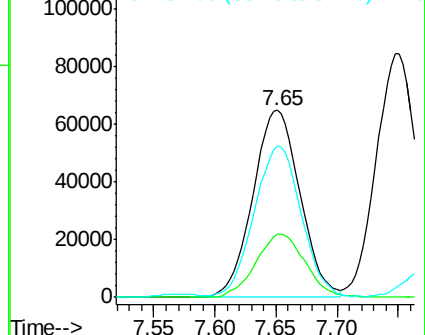
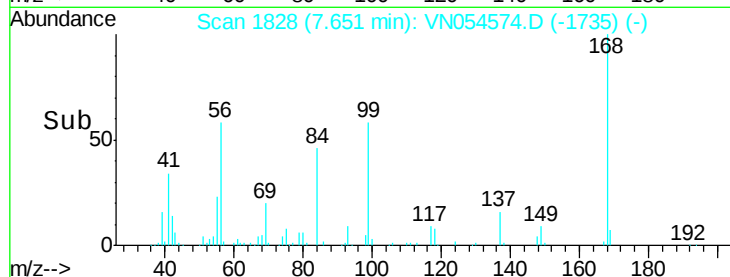
84 79.4 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 22.969 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

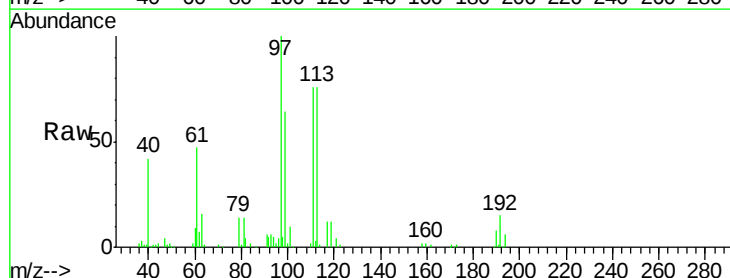
Tgt Ion: 97 Resp: 148085

Ion Ratio Lower Upper

97 100

99 63.5 51.5 77.3

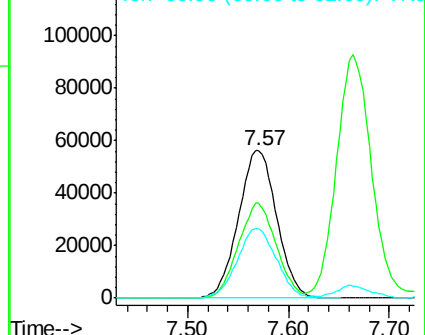
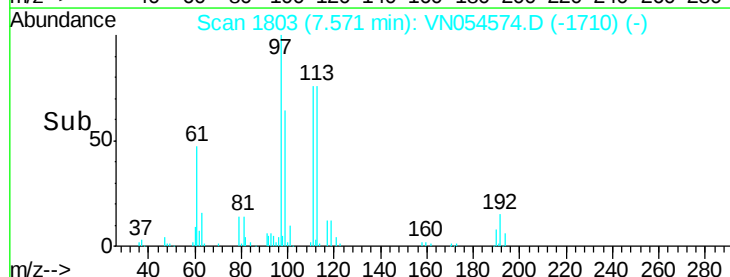
61 48.1 33.6 50.4

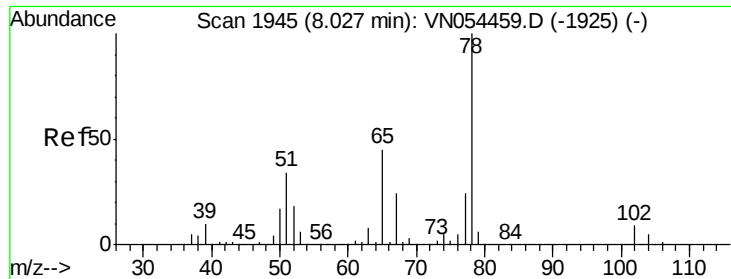


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

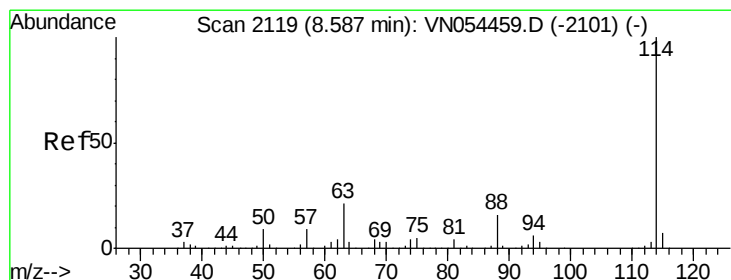
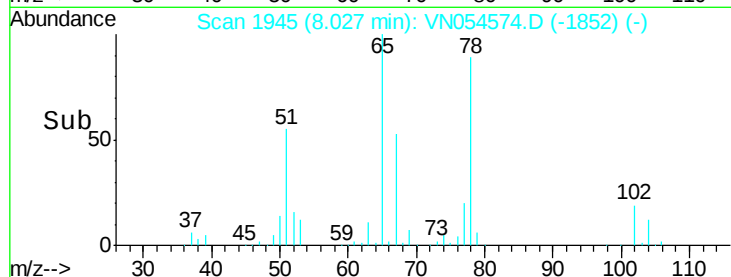
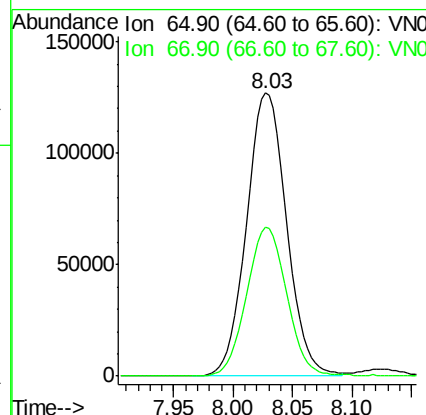
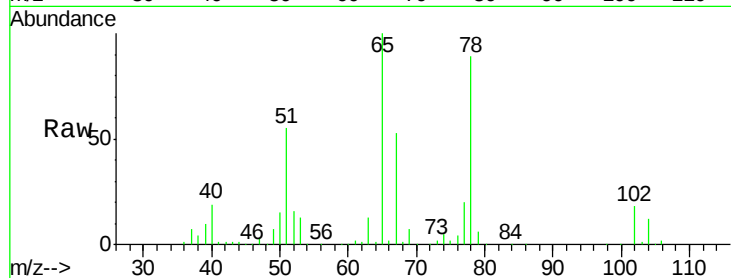




#33
 1,2-Dichloroethane-d4
 Concen: 57.535 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

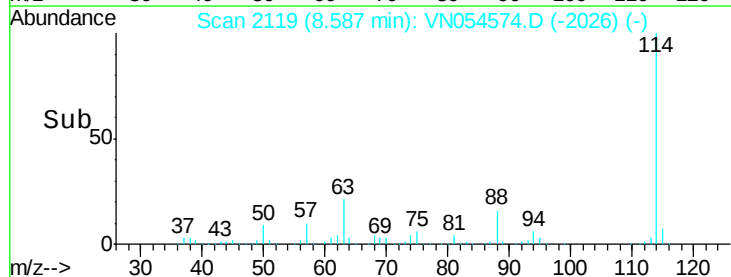
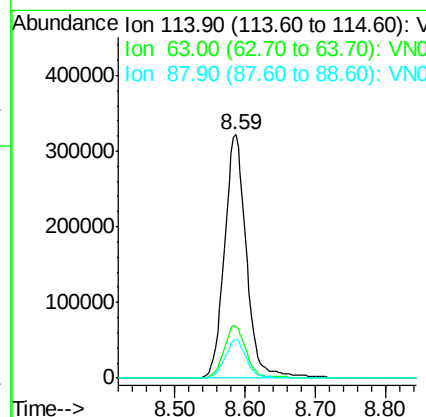
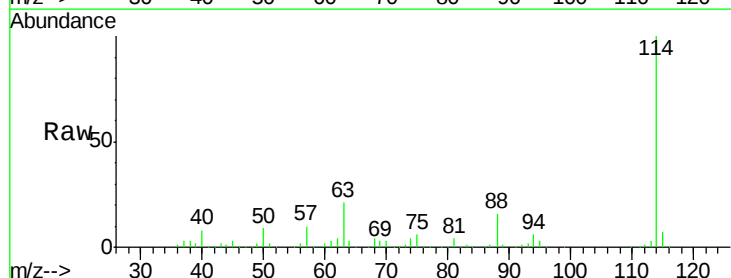
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

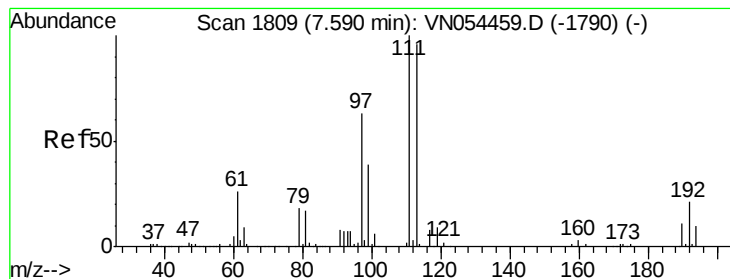
Tot Ion: 65 Resp: 297080
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Tgt Ion: 114 Resp: 699541
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 35.2
 88 16.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.881 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

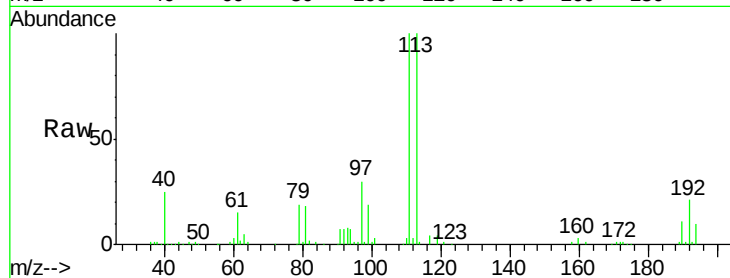
Tot Ion:113 Resp: 233818

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

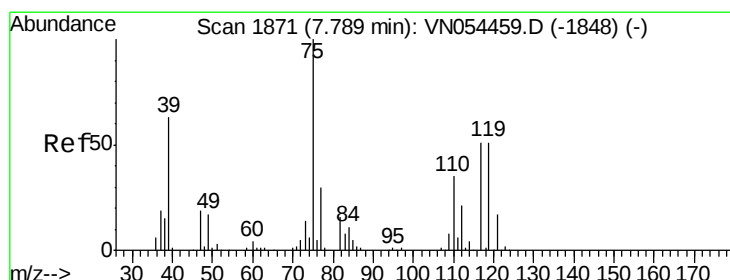
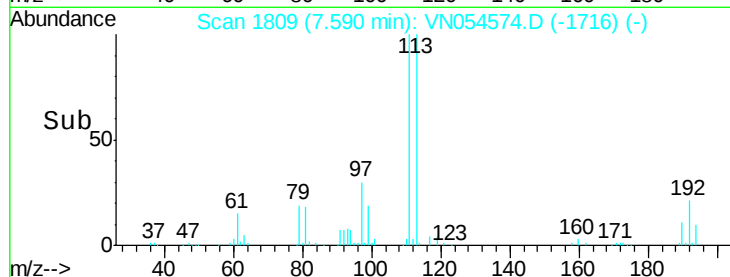
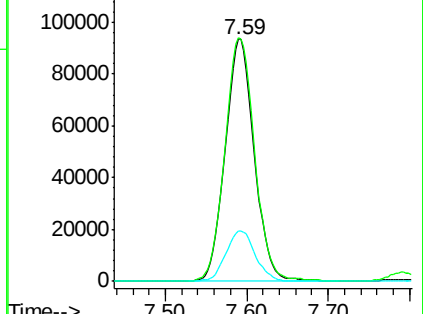
192 21.1 19.2 28.8



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: 20.192 ug/l

RT: 7.79 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

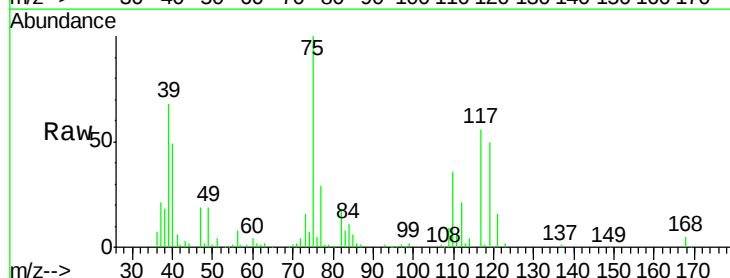
Tgt Ion: 75 Resp: 132074

Ion Ratio Lower Upper

75 100

110 34.7 19.1 57.5

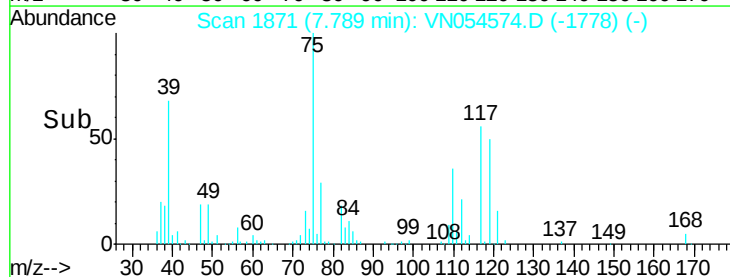
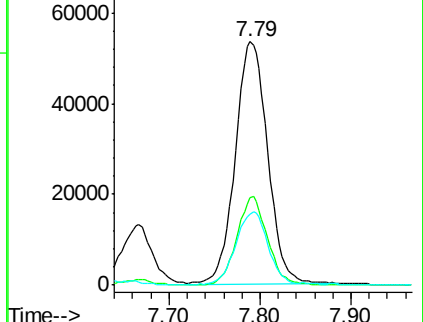
77 30.2 25.0 37.4

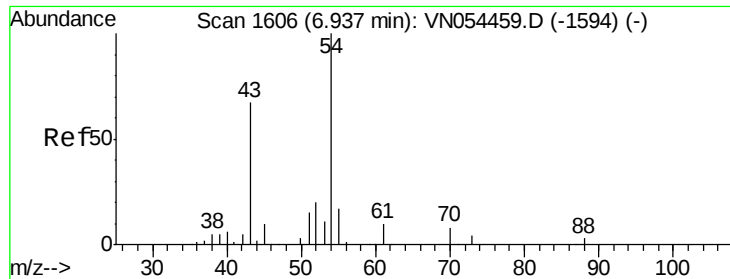


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

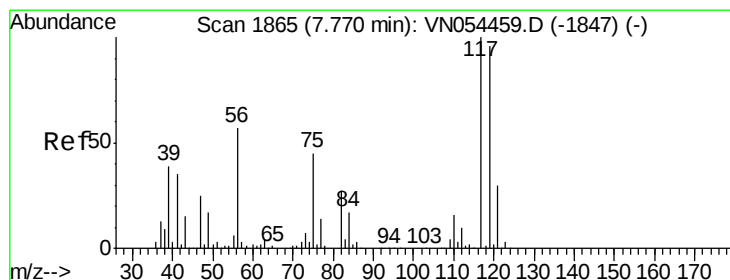
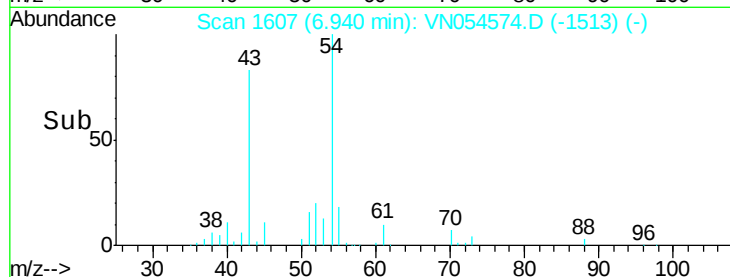
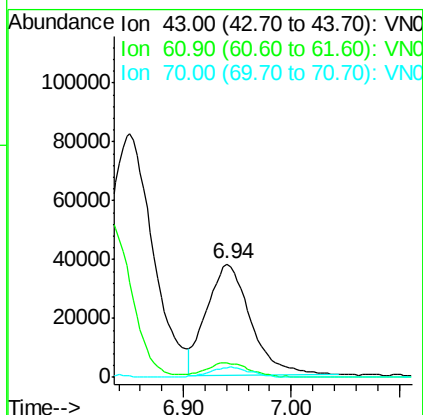
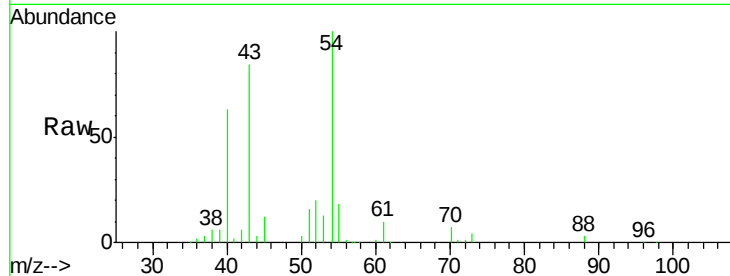




#37
Ethyl Acetate
Concen: 23.069 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

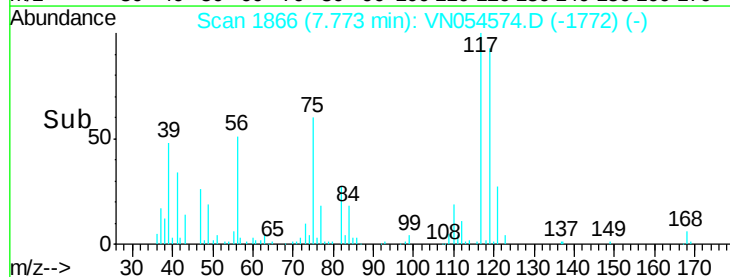
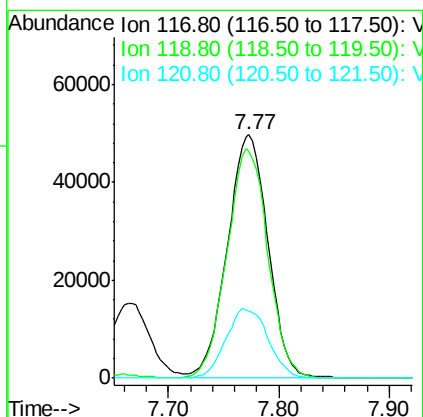
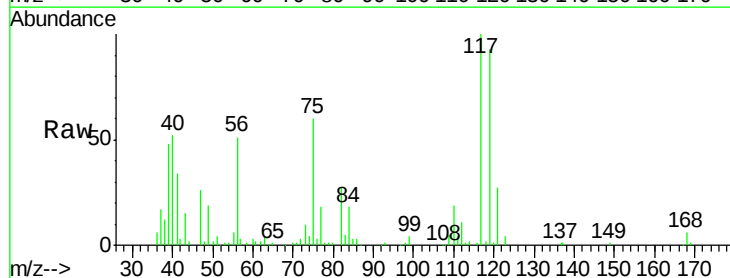
Instrument :
MSVOA_N
ClientSampled :
VN0322MBSD02

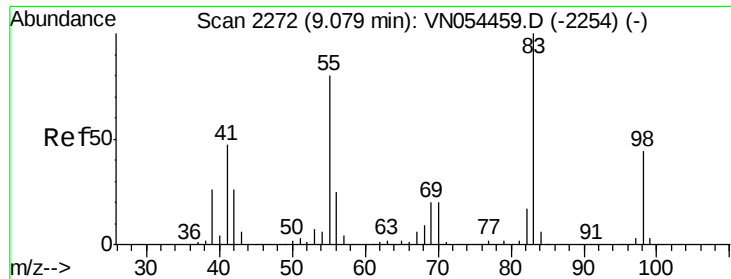
Tot Ion: 43 Resp: 107318
Ion Ratio Lower Upper
43 100
61 11.6 11.8 17.6#
70 8.5 8.4 12.6



#38
Carbon Tetrachloride
Concen: 19.966 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 117 Resp: 126908
Ion Ratio Lower Upper
117 100
119 93.2 76.3 114.5
121 27.4 24.6 36.8

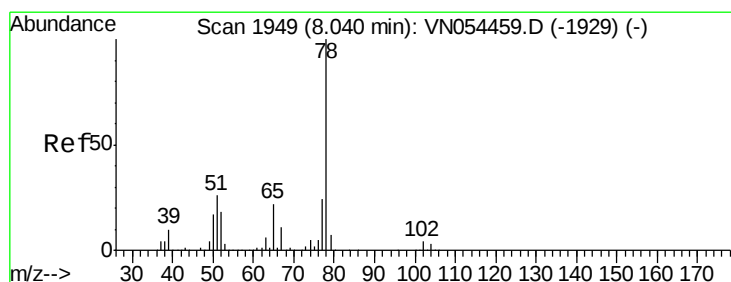
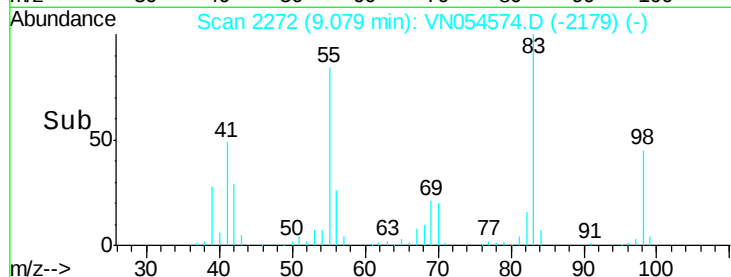
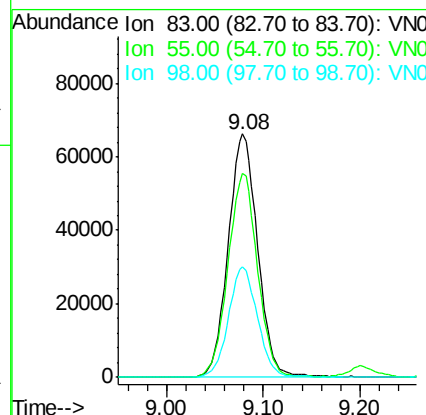
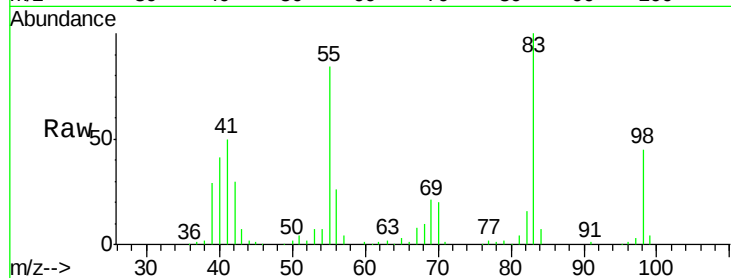




#39
Methvlcvclohexane
Concen: 18.692 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

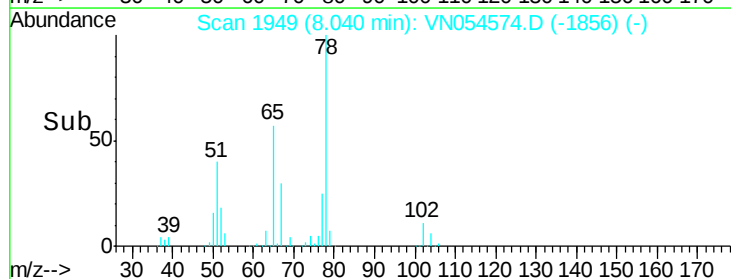
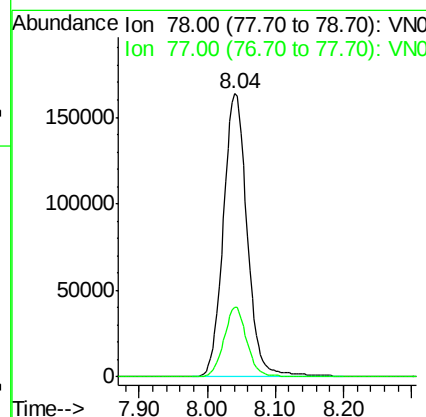
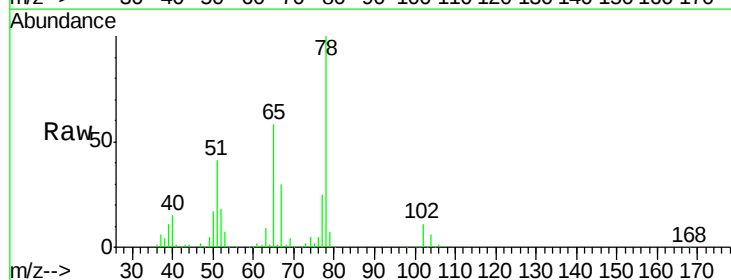
Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

Tot Ion: 83 Resp: 139853
Ion Ratio Lower Upper
83 100
55 83.6 56.6 84.8
98 45.5 38.4 57.6



#40
Benzene
Concen: 21.267 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 78 Resp: 397772
Ion Ratio Lower Upper
78 100
77 24.8 19.1 28.7

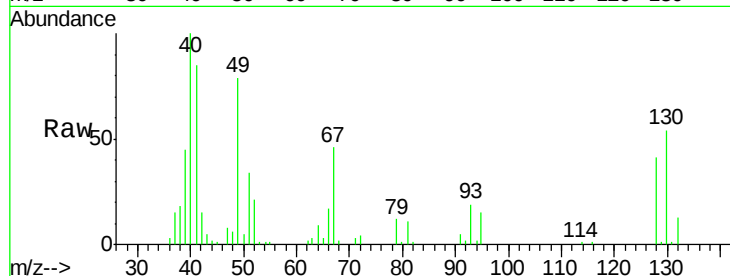




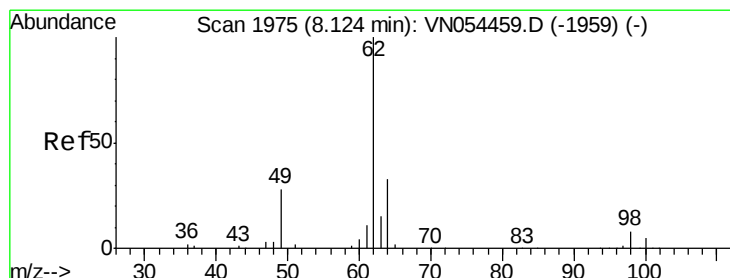
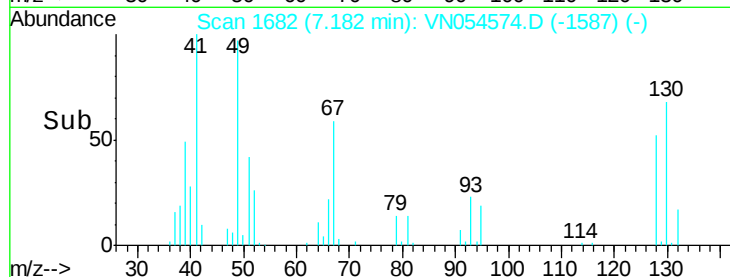
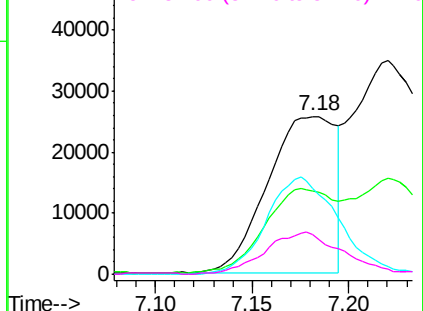
#41
Methacrylonitrile
Concen: 22.189 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Instrument :
MSVOA_N
ClientSampleID :
VN0322MBSD02

Tot Ion: 41 Resp: 62952
Ion Ratio Lower Upper
41 100
39 53.4 46.8 70.2
67 66.4 67.0 100.4#
52 30.3 26.5 39.7

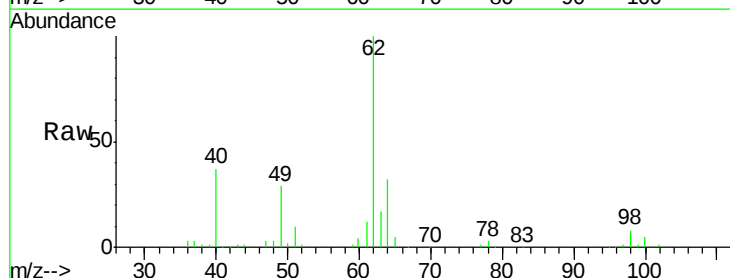


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

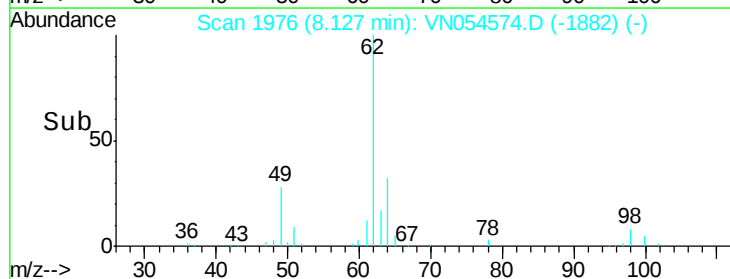
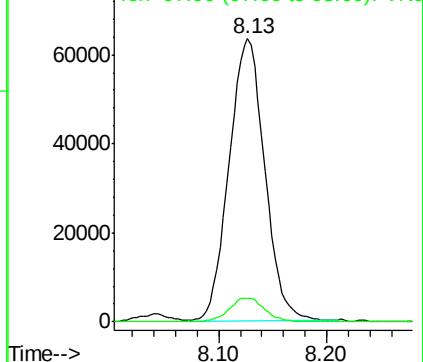


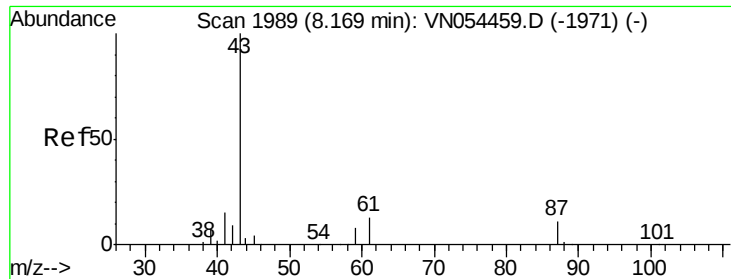
#42
1,2-Dichloroethane
Concen: 21.447 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 62 Resp: 146082
Ion Ratio Lower Upper
62 100
98 8.4 0.0 18.4



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





#43

Isopropyl Acetate

Concen: 22.846 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleID :

VN0322MBSD02

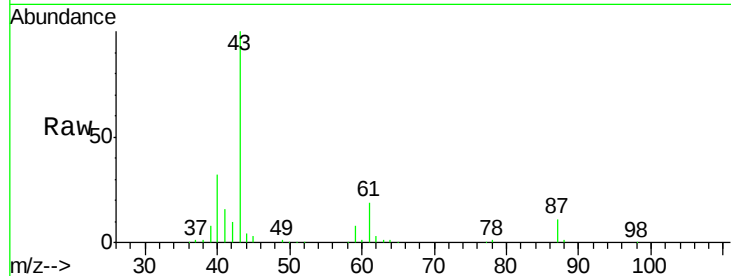
Tot Ion: 43 Resp: 179495

Ion Ratio Lower Upper

43 100

61 17.9 15.8 23.8

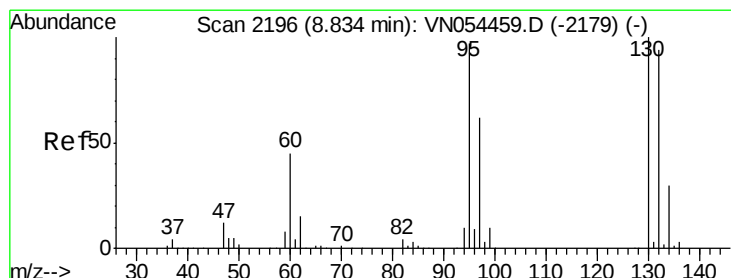
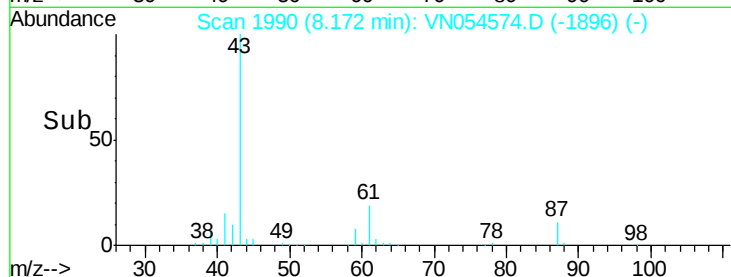
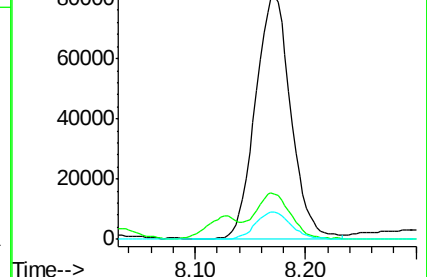
87 11.2 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054459.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054459.D (-1971) (-)



#44

Trichloroethene

Concen: 20.289 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054574.D

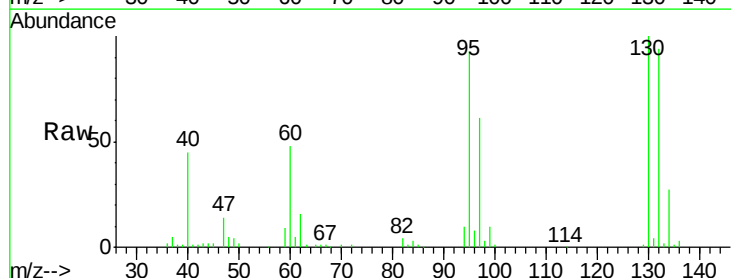
Acq: 22 Mar 2019 23:35

Tgt Ion:130 Resp: 105503

Ion Ratio Lower Upper

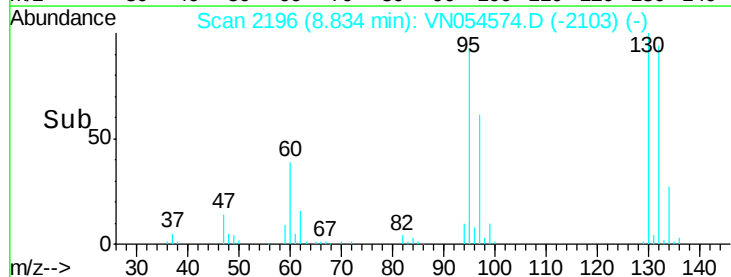
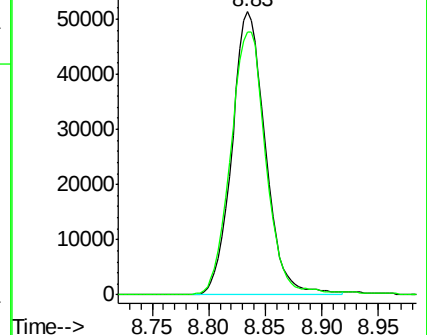
130 100

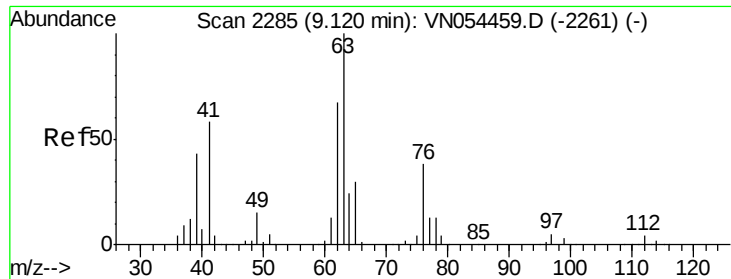
95 92.9 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054459.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054459.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 22.752 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

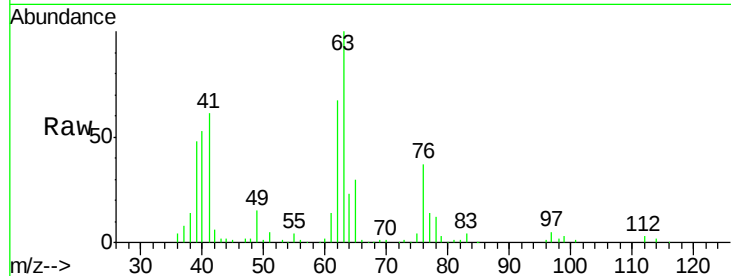
VN0322MBSD02

Tot Ion: 63 Resp: 114266

Ion Ratio Lower Upper

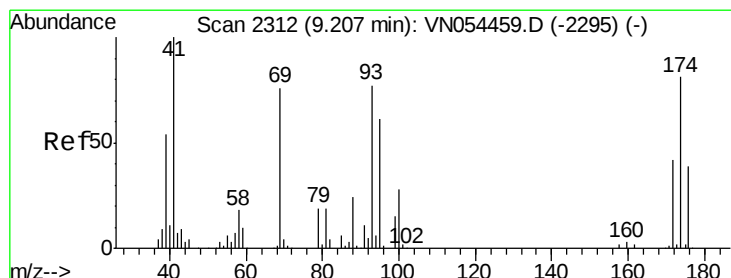
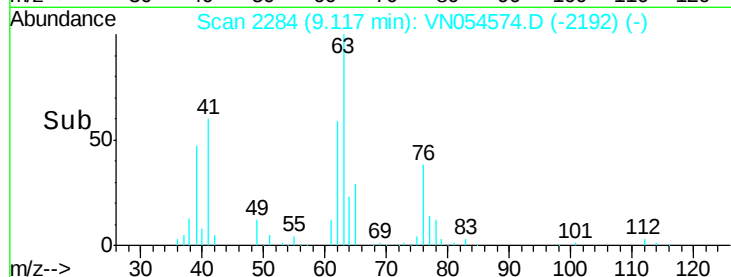
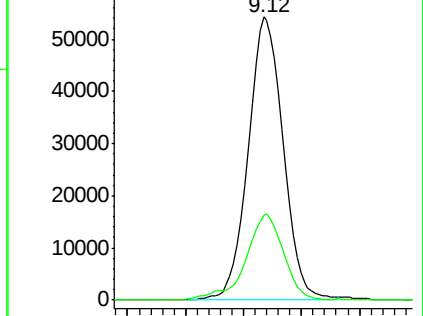
63 100

65 29.6 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 21.549 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

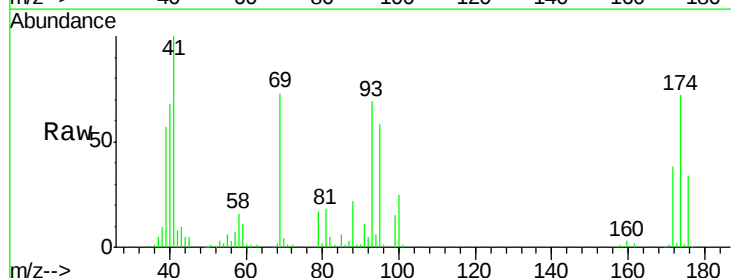
Tgt Ion: 93 Resp: 64564

Ion Ratio Lower Upper

93 100

95 85.9 66.7 100.1

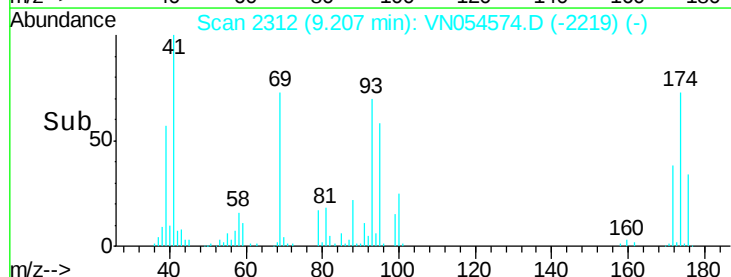
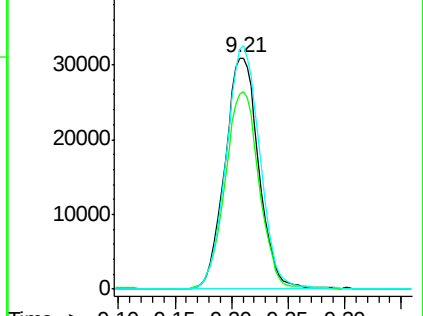
174 104.5 98.5 147.7

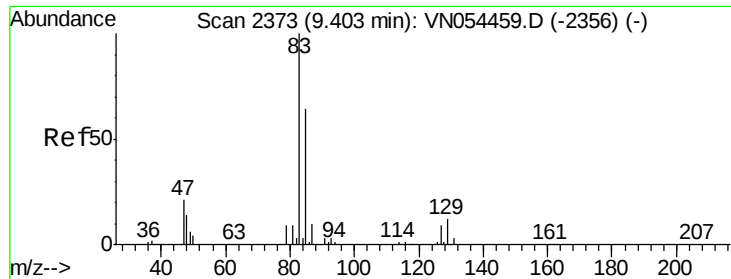


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

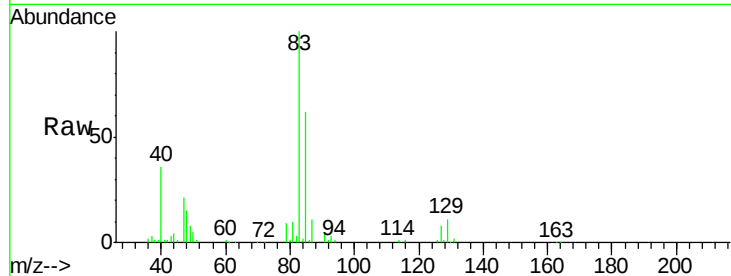




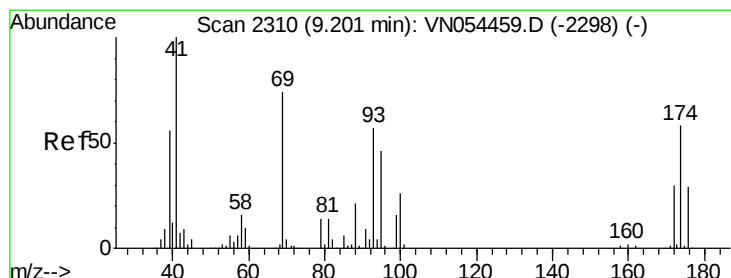
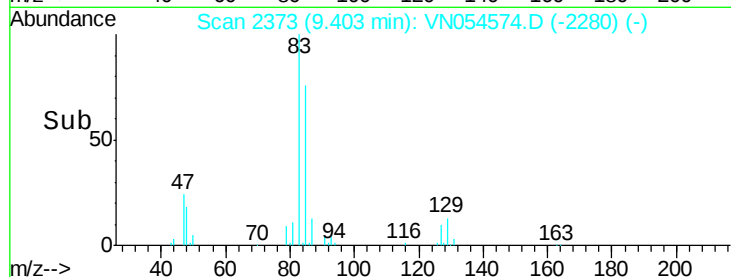
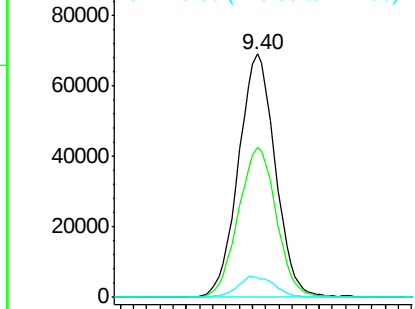
#47
Bromodichloromethane
Concen: 21.483 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

Tot Ion: 83 Resp: 133583
Ion Ratio Lower Upper
83 100
85 61.5 52.8 79.2
127 8.1 7.4 11.2

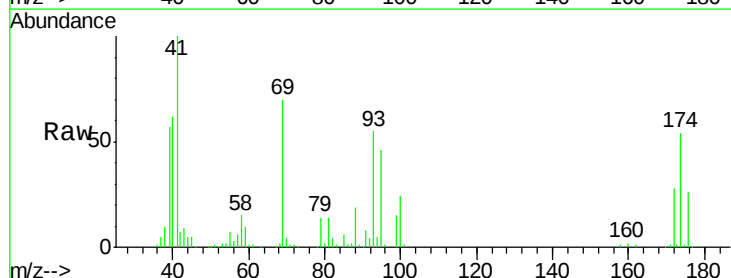


Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO

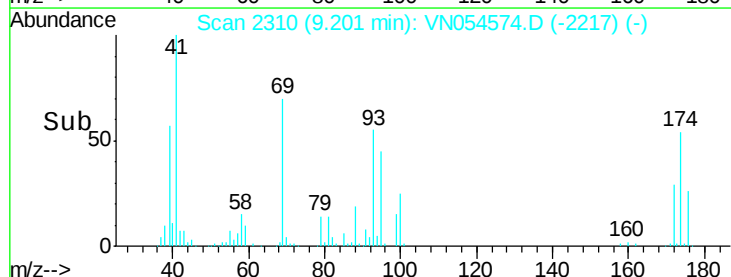
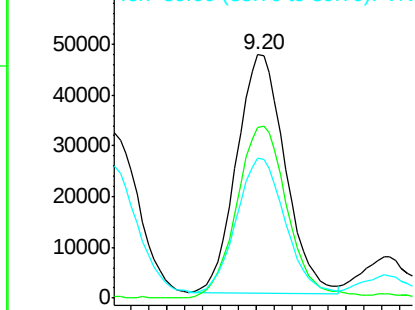


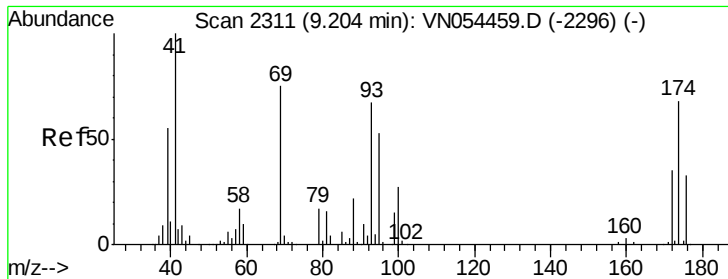
#48
Methyl methacrylate
Concen: 20.911 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 41 Resp: 89168
Ion Ratio Lower Upper
41 100
69 75.5 72.6 108.8
39 60.3 47.5 71.3



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





#49

1,4-Dioxane

Concen: 425.637 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

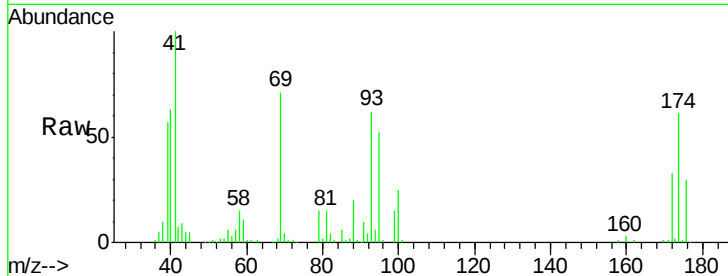
Tot Ion: 88 Resp: 20291

Ion Ratio Lower Upper

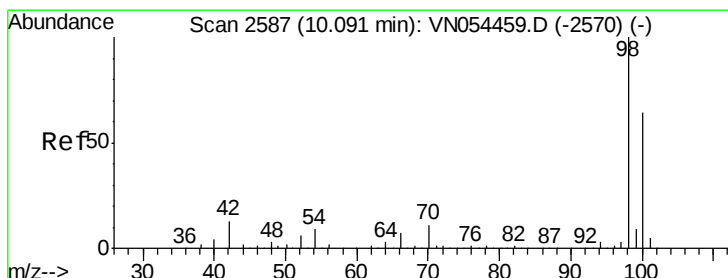
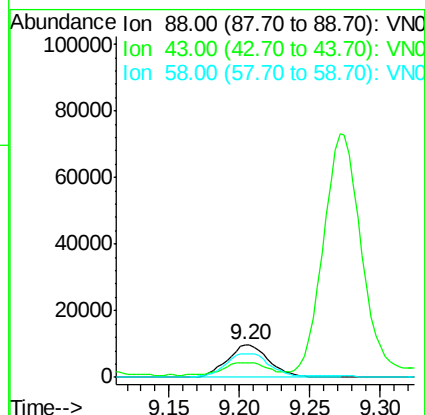
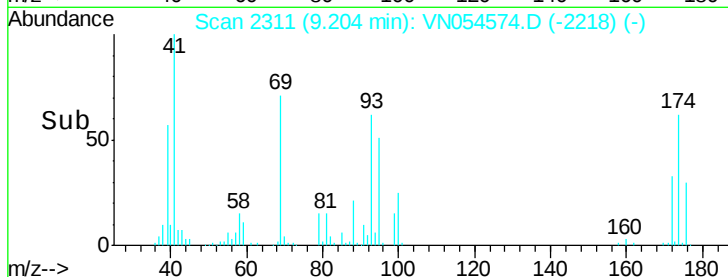
88 100

43 40.2 24.1 36.1#

58 77.7 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: 49.884 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054574.D

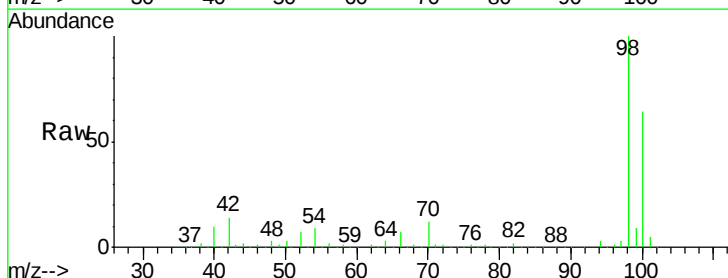
Acq: 22 Mar 2019 23:35

Tgt Ion: 98 Resp: 845178

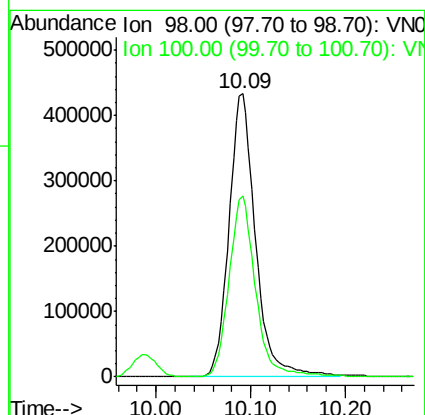
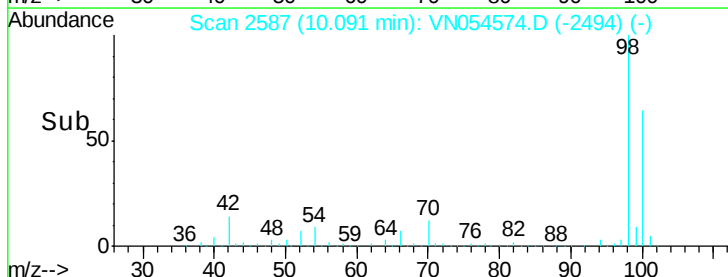
Ion Ratio Lower Upper

98 100

100 63.8 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: 118.403 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

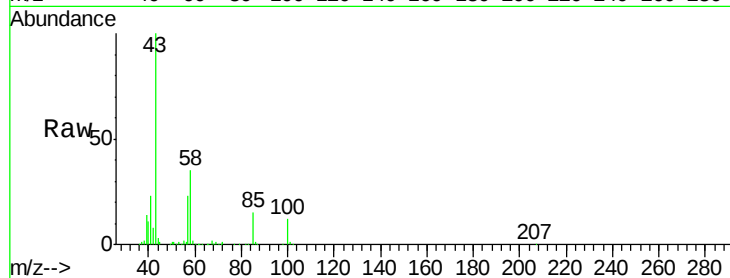
VN0322MBS02

Tot Ion: 43 Resp: 515546

Ion Ratio Lower Upper

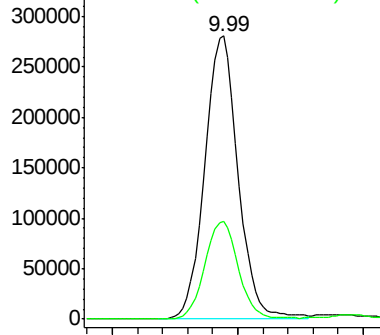
43 100

58 35.2 31.8 47.6

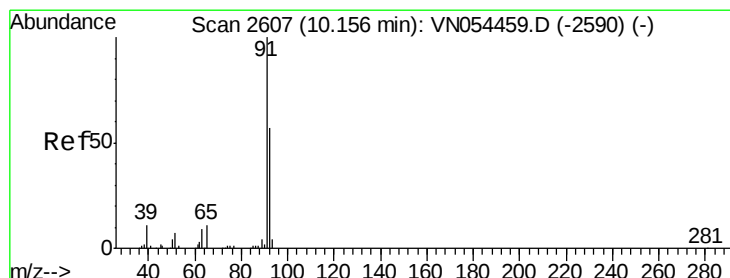
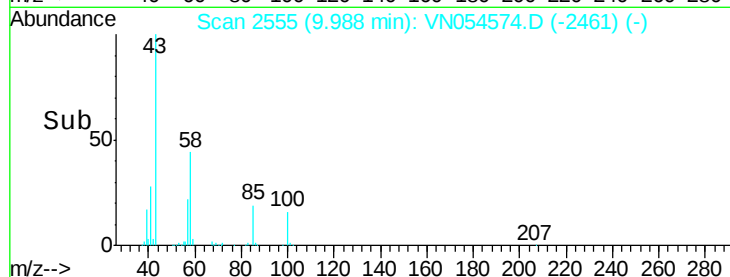


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#52

Toluene

Concen: 20.635 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054574.D

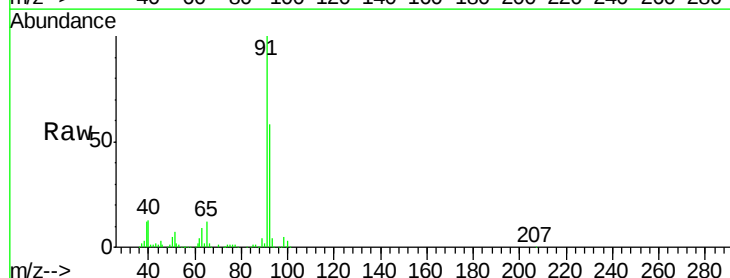
Acq: 22 Mar 2019 23:35

Tgt Ion: 92 Resp: 237381

Ion Ratio Lower Upper

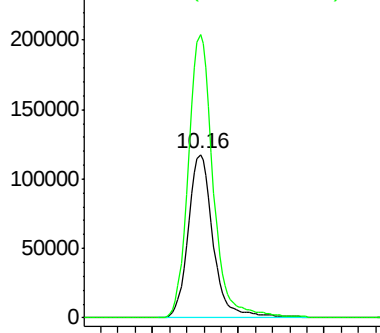
92 100

91 172.2 140.7 211.1

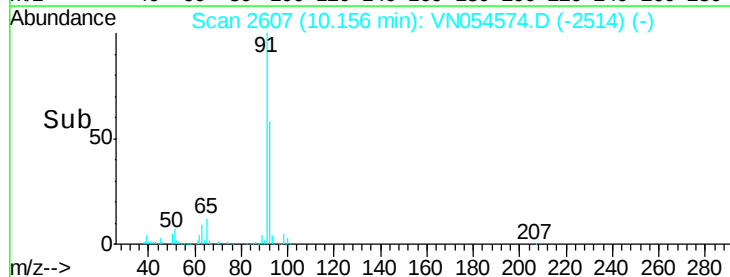


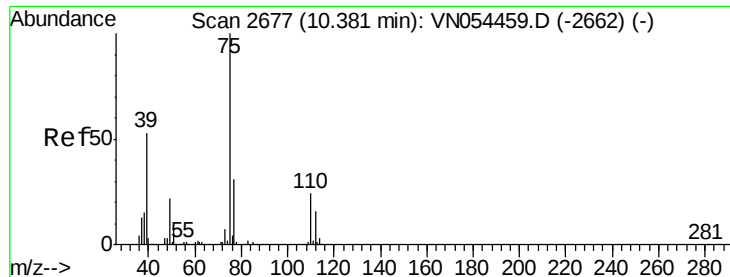
Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



Time-->





#53

t-1,3-Dichloropropene

Concen: 18.936 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

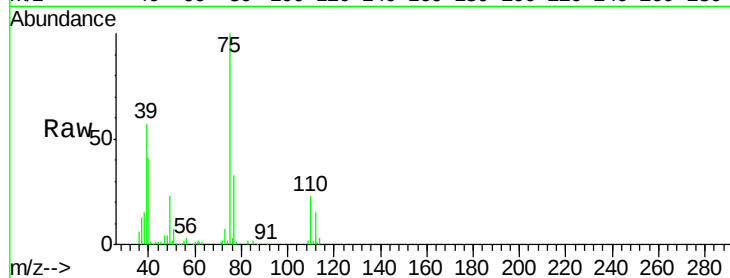
VN0322MBSD02

Tot Ion: 75 Resp: 114688

Ion Ratio Lower Upper

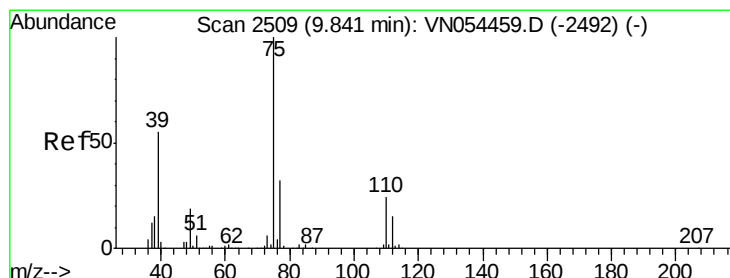
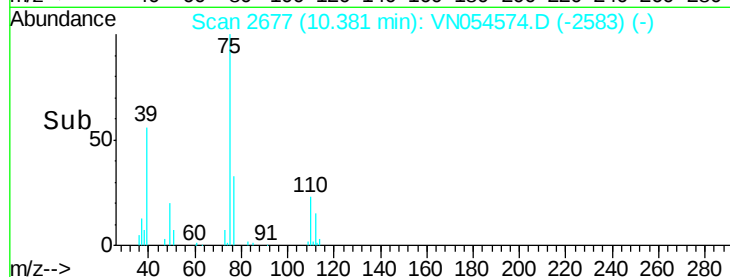
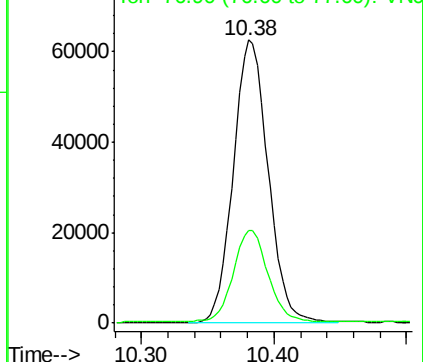
75 100

77 32.2 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 20.358 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

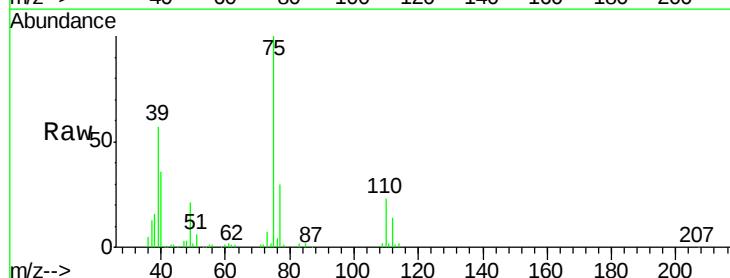
Tgt Ion: 75 Resp: 145150

Ion Ratio Lower Upper

75 100

77 30.4 25.4 38.0

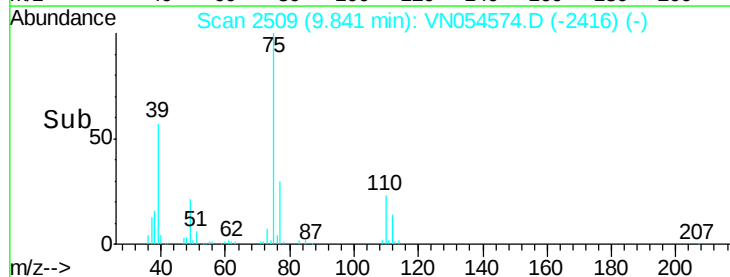
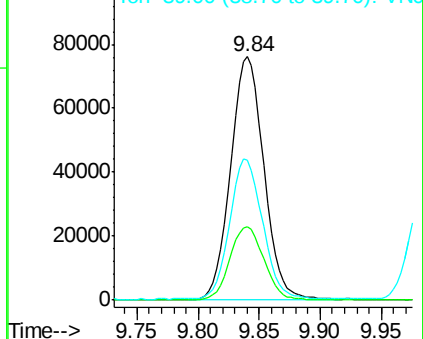
39 56.9 37.2 55.8#

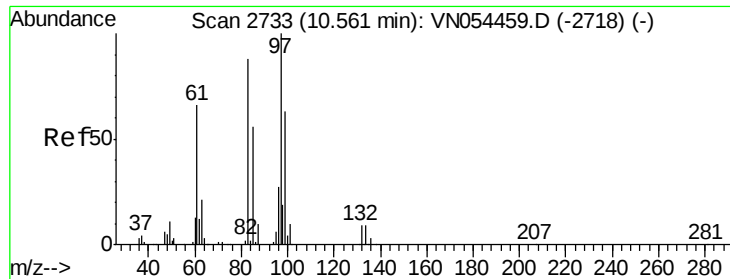


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 21.584 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

Tot Ion: 97 Resp: 89254

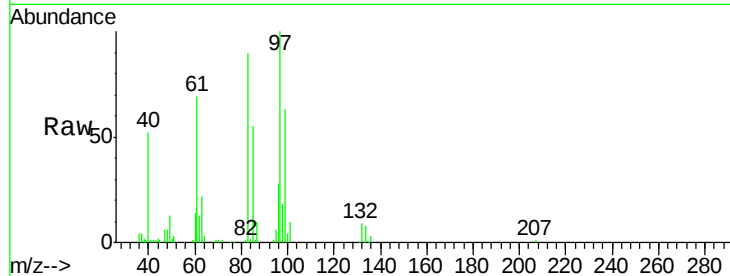
Ion Ratio Lower Upper

97 100

83 90.4 66.6 100.0

85 55.4 44.4 66.6

99 62.9 50.8 76.2

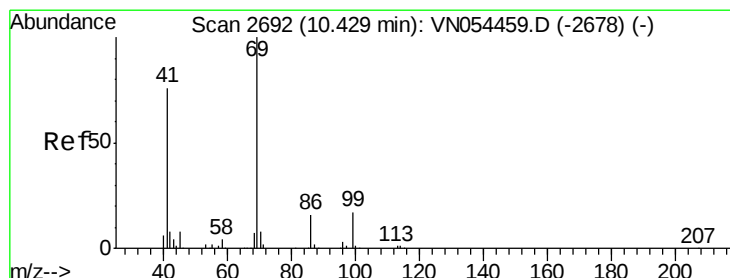
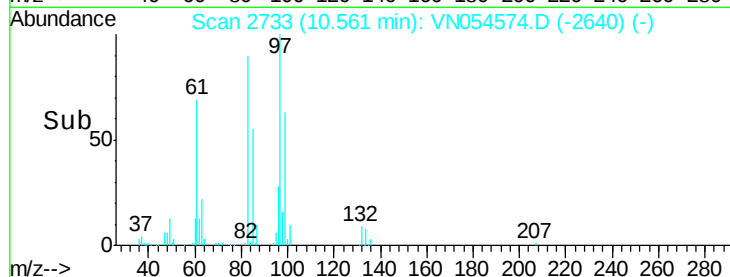
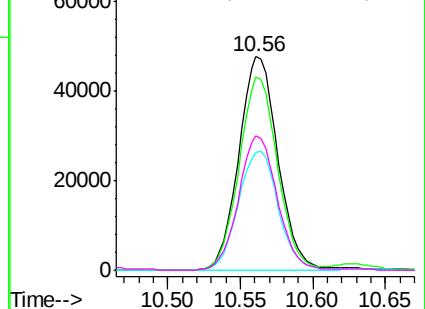


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 20.785 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

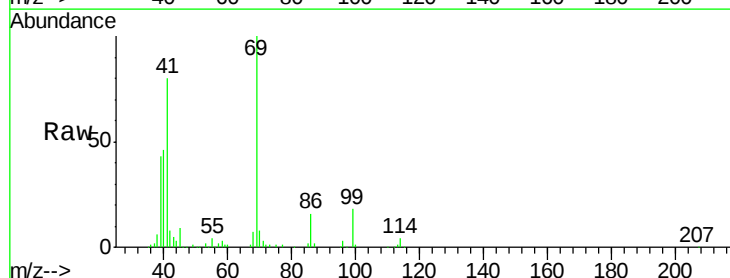
Tgt Ion: 69 Resp: 115358

Ion Ratio Lower Upper

69 100

41 78.7 49.4 74.2#

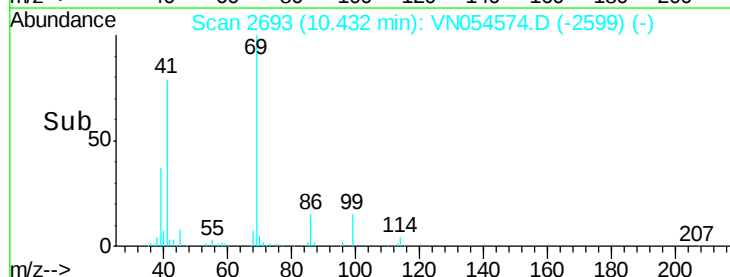
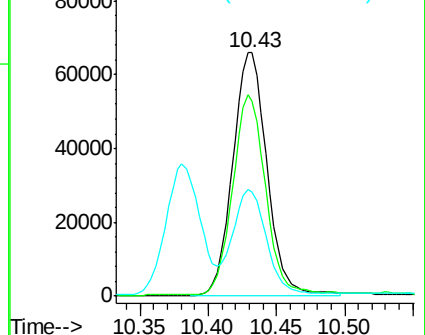
39 41.6 28.3 42.5

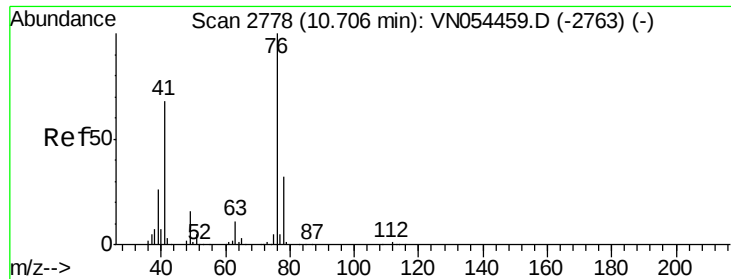


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

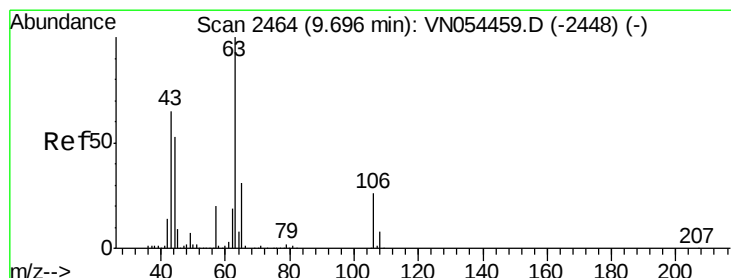
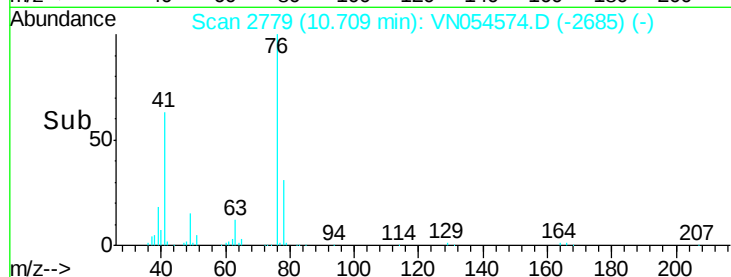
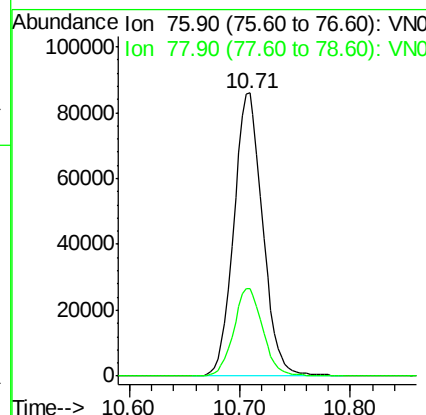
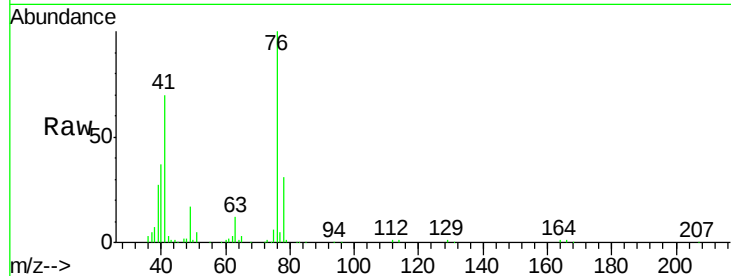




#57
 1,3-Dichloropropane
 Concen: 21.781 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

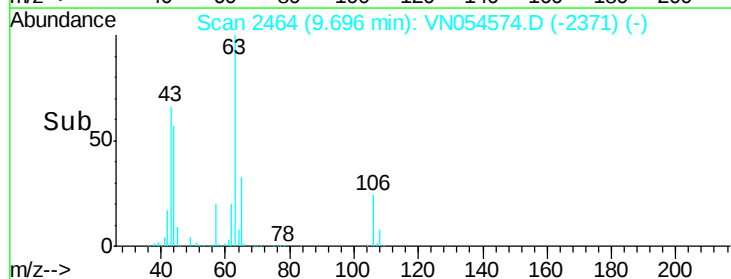
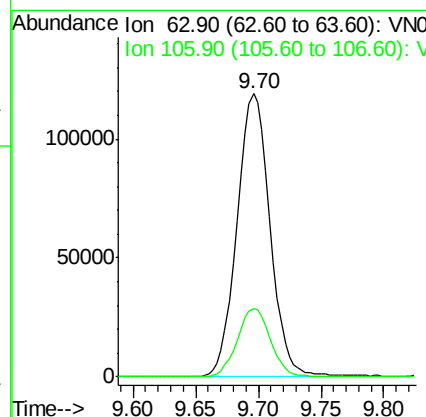
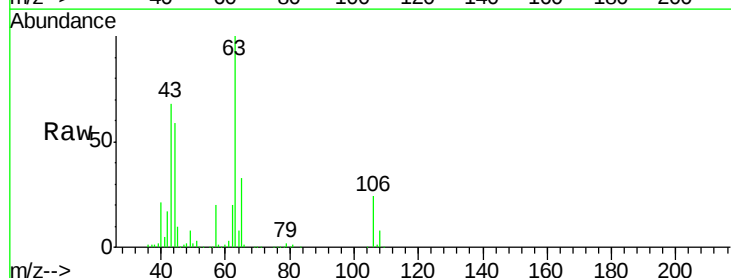
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

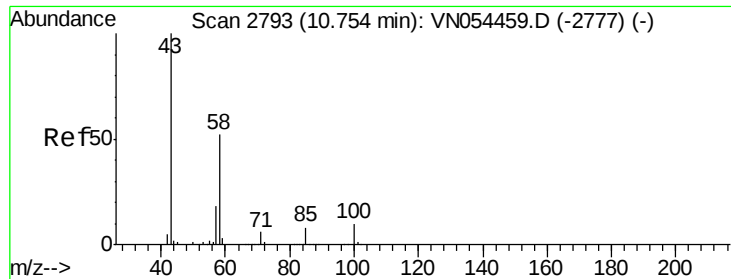
Tot Ion: 76 Resp: 156567
 Ion Ratio Lower Upper
 76 100
 78 31.2 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 95.497 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Tgt Ion: 63 Resp: 218252
 Ion Ratio Lower Upper
 63 100
 106 24.3 24.4 36.6#

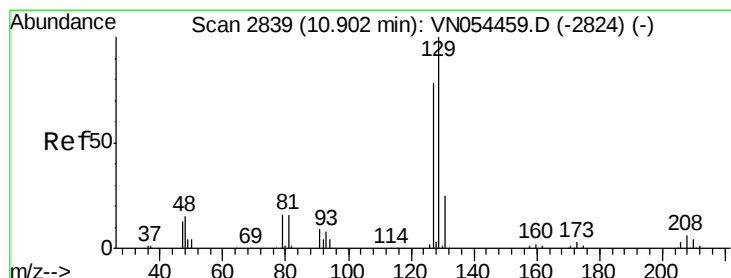
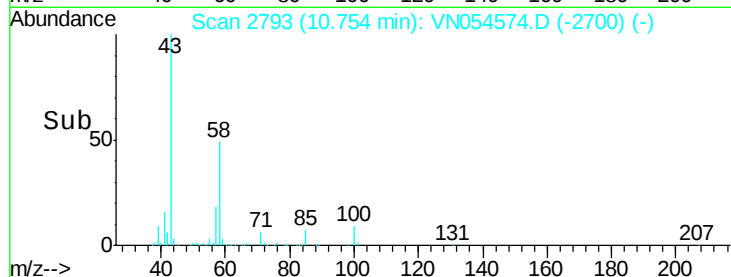
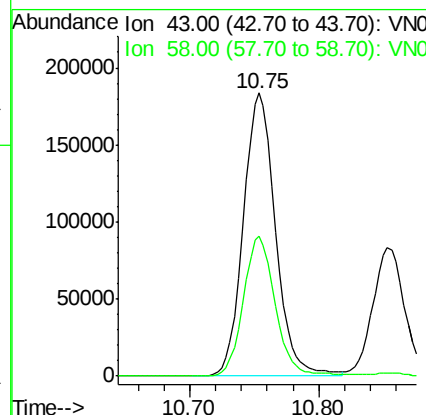
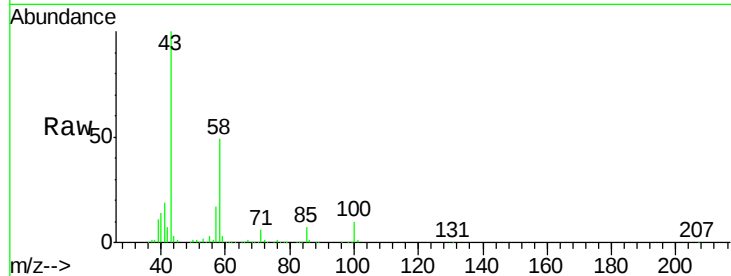




#59
2-Hexanone
Concen: 111.083 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

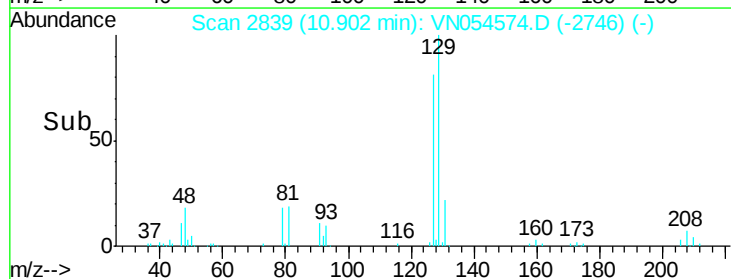
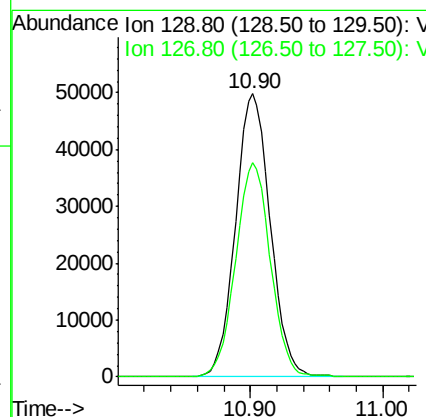
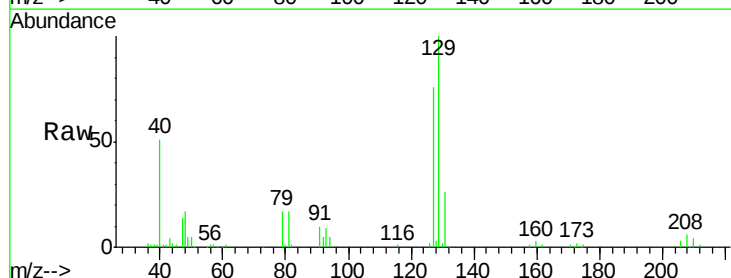
Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

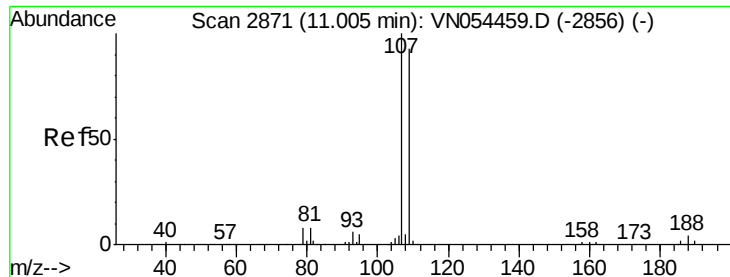
Tot Ion: 43 Resp: 315930
Ion Ratio Lower Upper
43 100
58 49.3 28.0 83.9



#60
Dibromochloromethane
Concen: 20.566 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 129 Resp: 90492
Ion Ratio Lower Upper
129 100
127 76.0 38.6 115.8





#61

1,2-Dibromoethane

Concen: 21.130 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

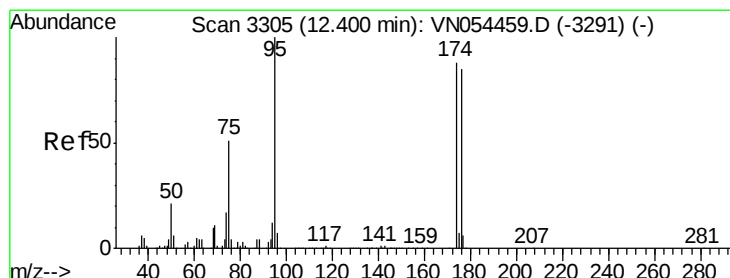
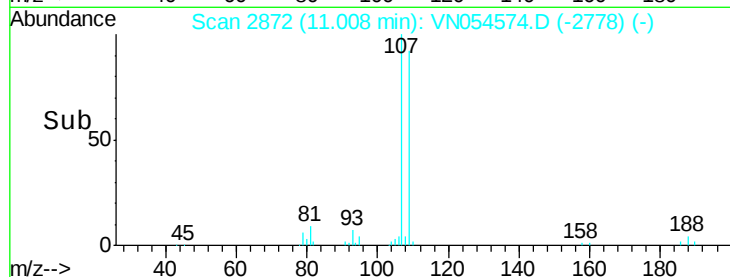
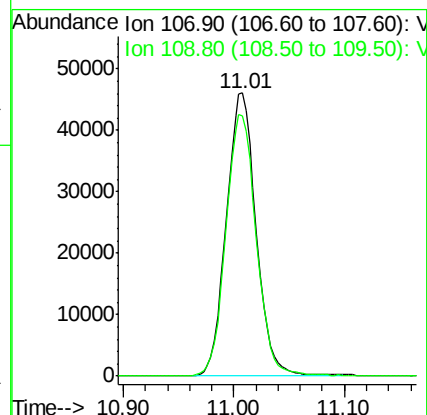
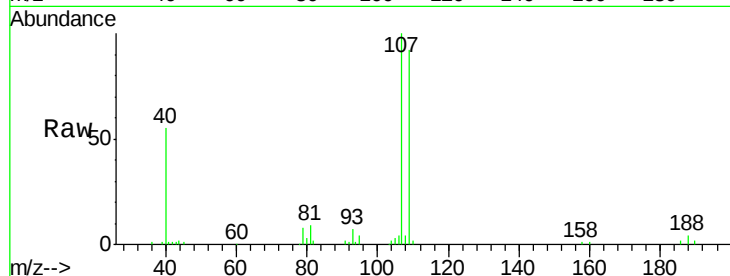
VN0322MBSD02

Tot Ion:107 Resp: 86380

Ion Ratio Lower Upper

107 100

109 94.3 75.9 113.9



#62

4-Bromofluorobenzene

Concen: 47.921 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

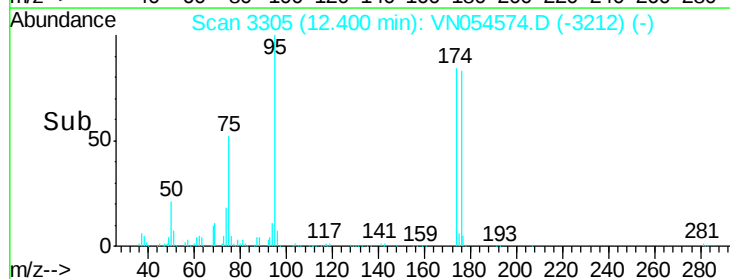
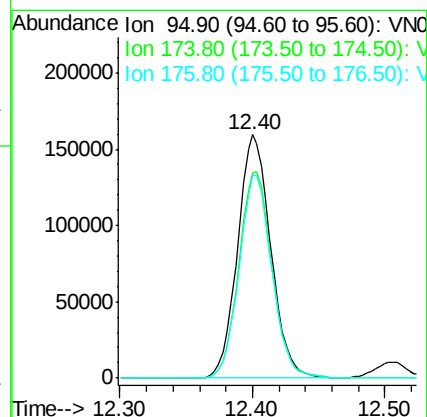
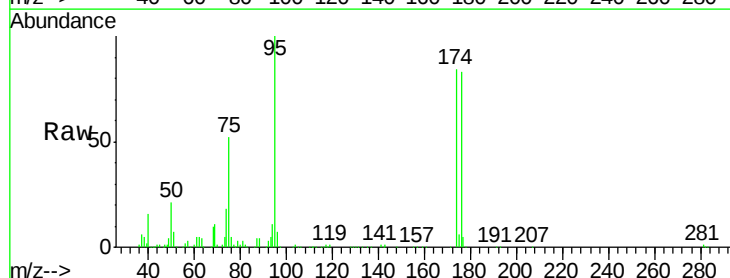
Tgt Ion: 95 Resp: 276282

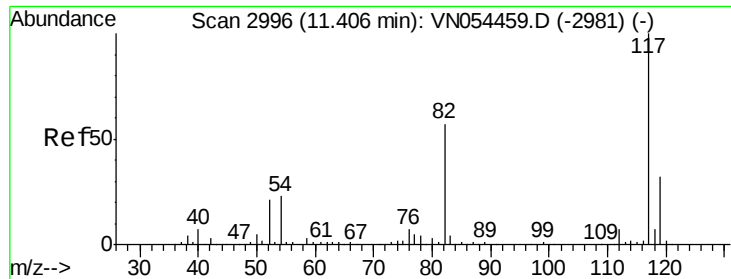
Ion Ratio Lower Upper

95 100

174 85.0 0.0 191.0

176 82.9 0.0 187.4

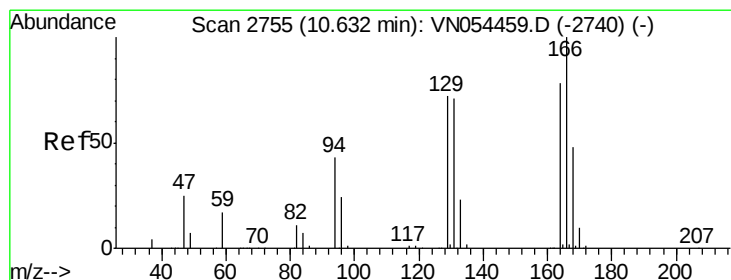
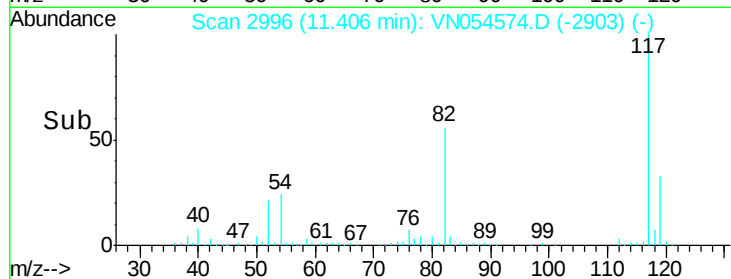
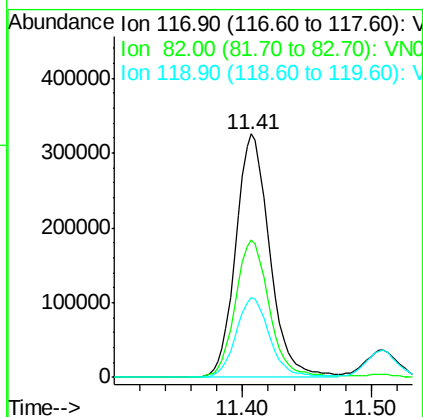
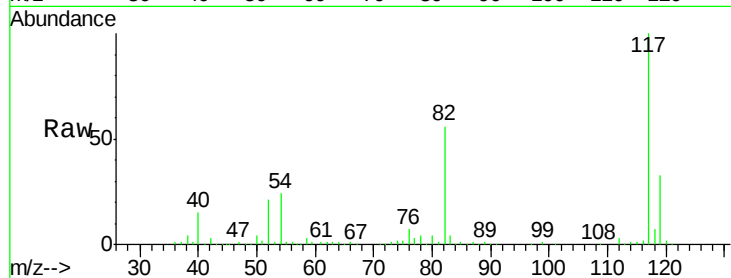




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

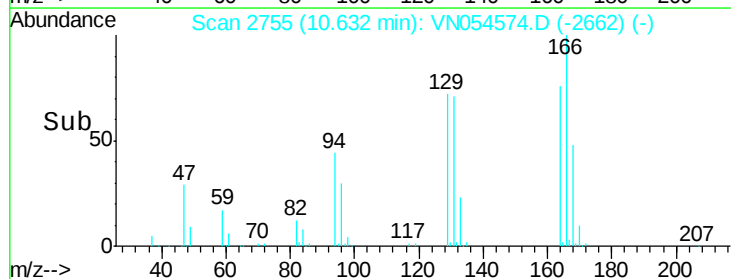
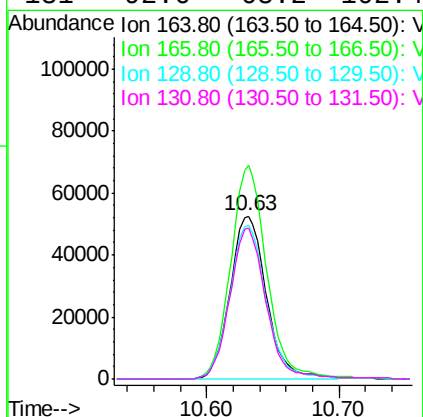
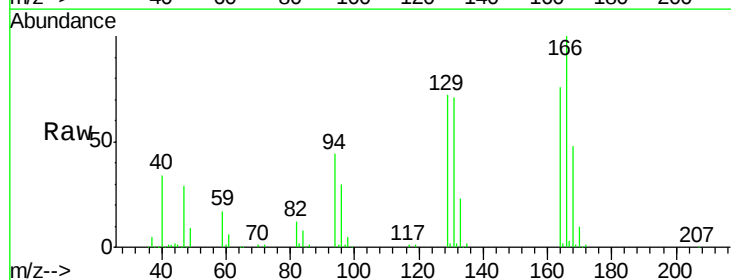
Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

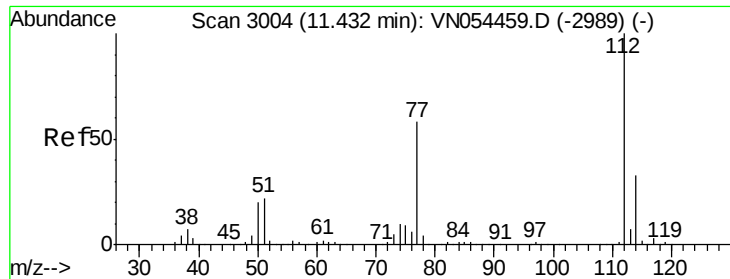
Tot Ion:117 Resp: 595217
Ion Ratio Lower Upper
117 100
82 56.5 40.0 60.0
119 32.6 25.8 38.6



#64
Tetrachloroethene
Concen: 20.328 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion:164 Resp: 100363
Ion Ratio Lower Upper
164 100
166 131.0 103.9 155.9
129 94.4 71.1 106.7
131 92.6 68.2 102.4

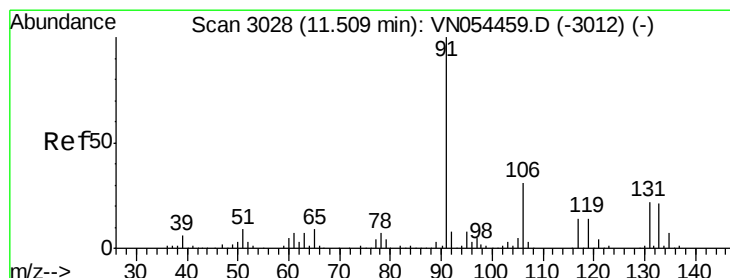
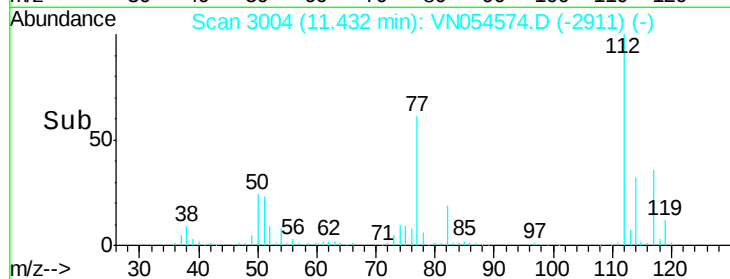
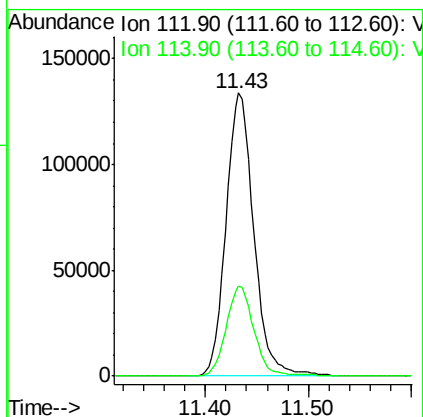
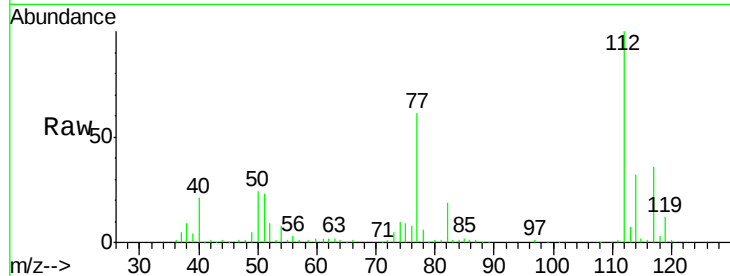




#65
Chlorobenzene
Concen: 20.788 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

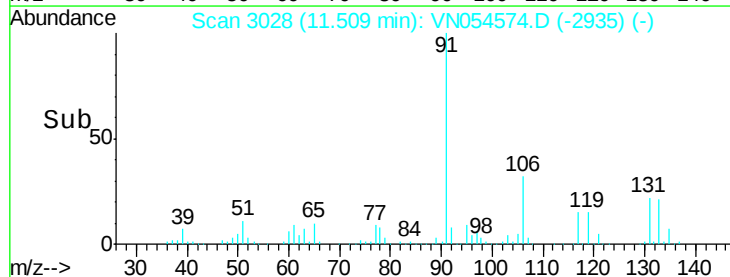
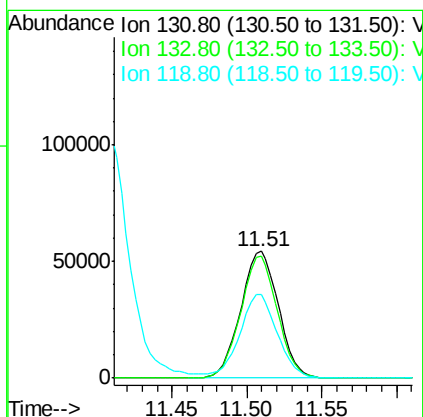
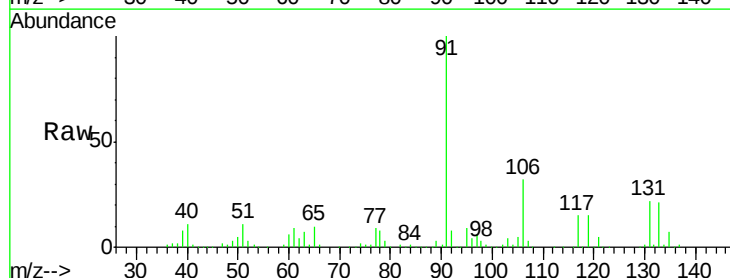
Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

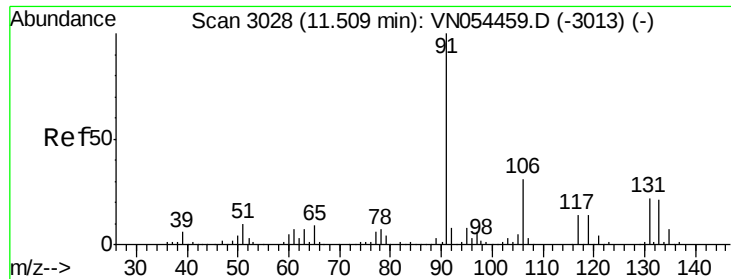
Tot Ion:112 Resp: 251657
Ion Ratio Lower Upper
112 100
114 31.9 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 21.962 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion:131 Resp: 95431
Ion Ratio Lower Upper
131 100
133 93.2 47.6 142.9
119 66.0 32.4 97.0

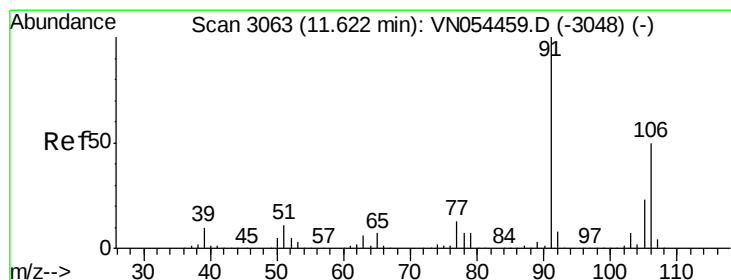
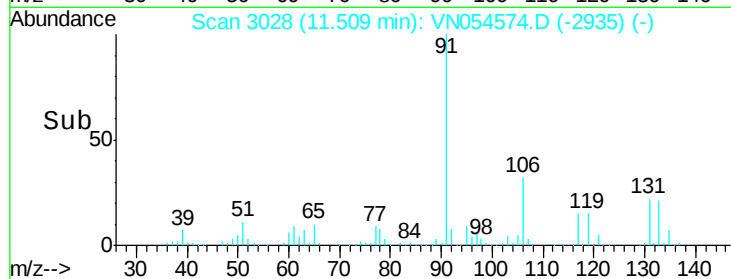
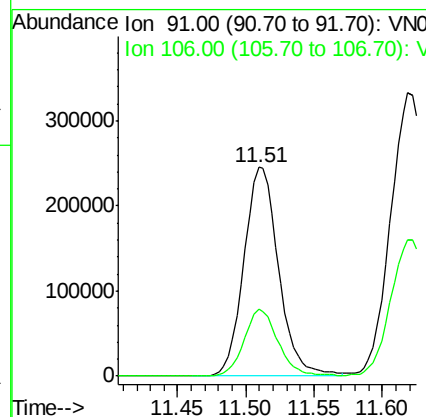
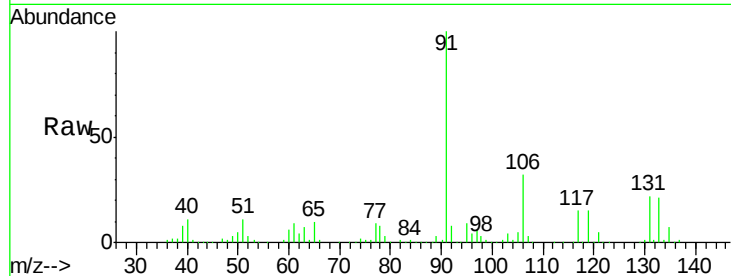




#67
Ethyl Benzene
Concen: 20.327 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

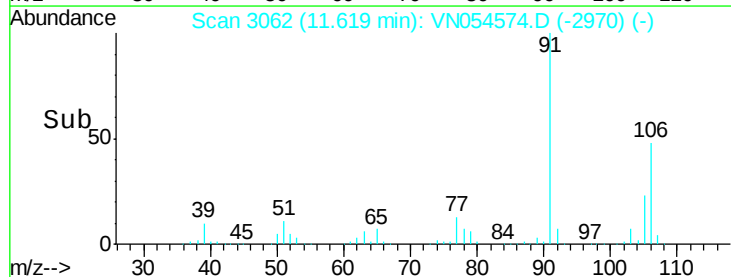
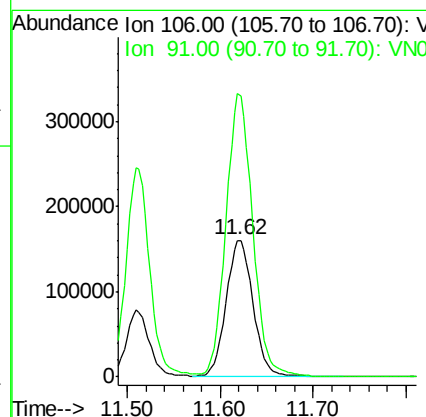
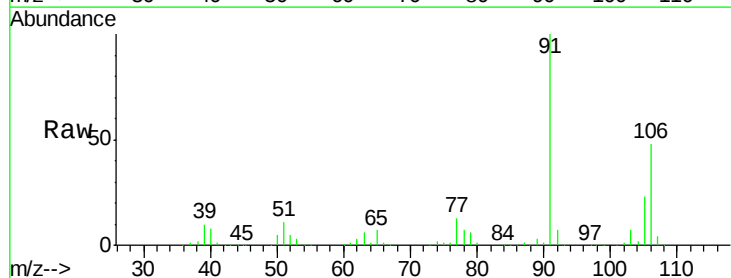
Instrument :
MSVOA_N
ClientSampled :
VN0322MBSD02

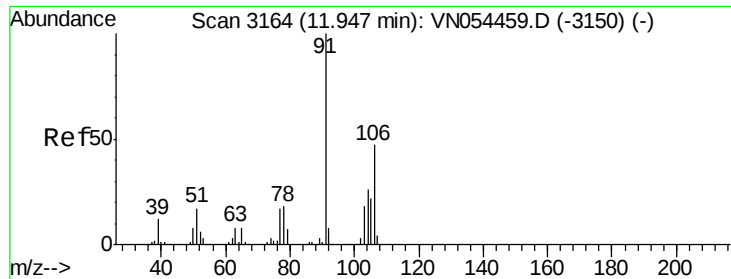
Tot Ion: 91 Resp: 434675
Ion Ratio Lower Upper
91 100
106 31.9 25.5 38.3



#68
m/p-Xylenes
Concen: 40.200 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion: 106 Resp: 325618
Ion Ratio Lower Upper
106 100
91 205.3 159.4 239.2

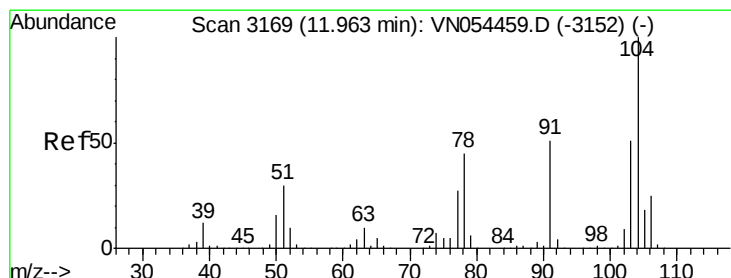
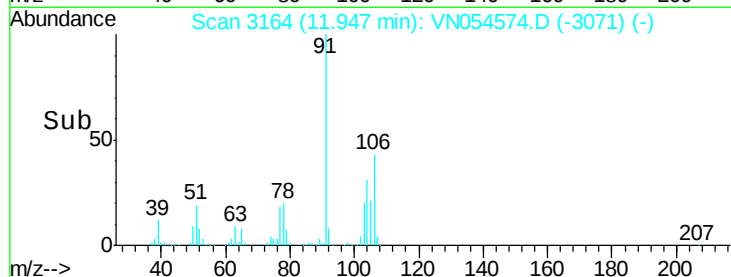
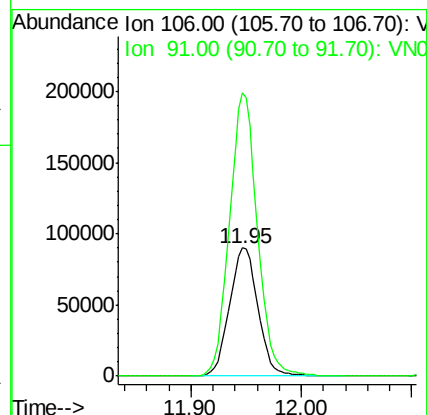
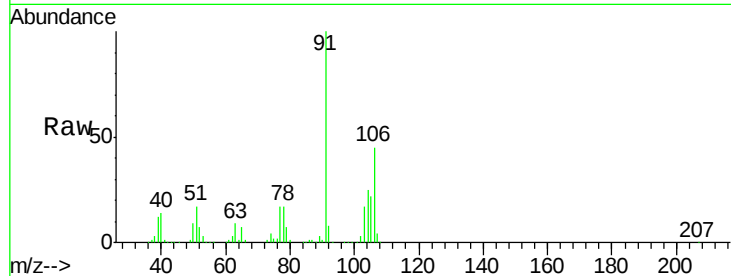




#69
o-Xylene
Concen: 20.470 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

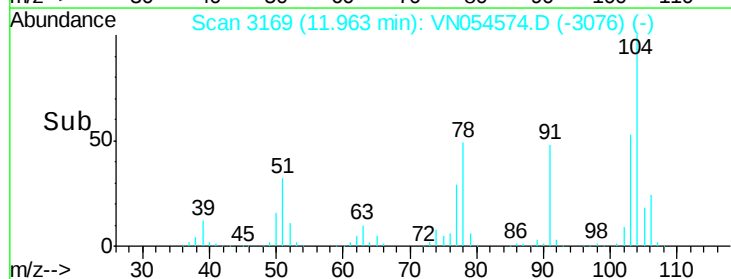
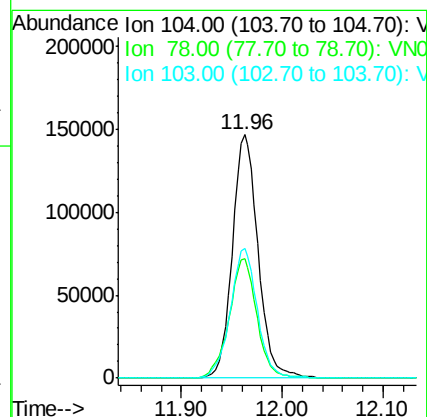
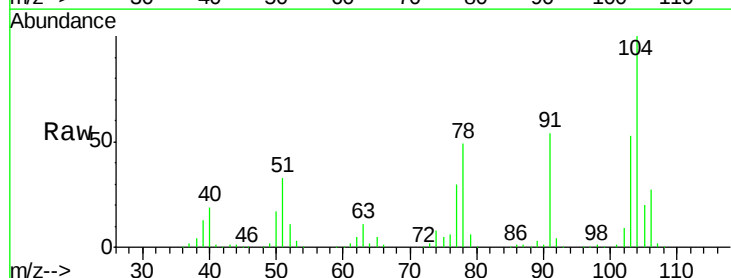
Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

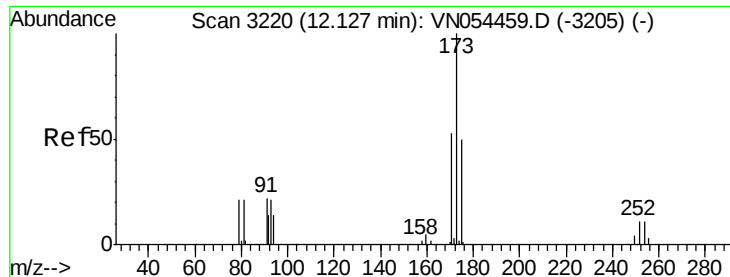
Tot Ion:106 Resp: 161927
Ion Ratio Lower Upper
106 100
91 215.1 105.7 317.1



#70
Styrene
Concen: 20.320 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion:104 Resp: 261029
Ion Ratio Lower Upper
104 100
78 52.7 38.2 57.2
103 56.2 44.4 66.6

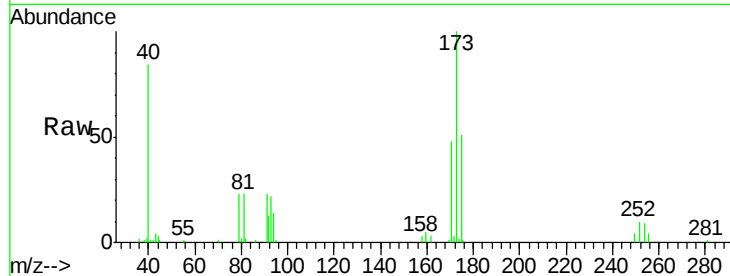




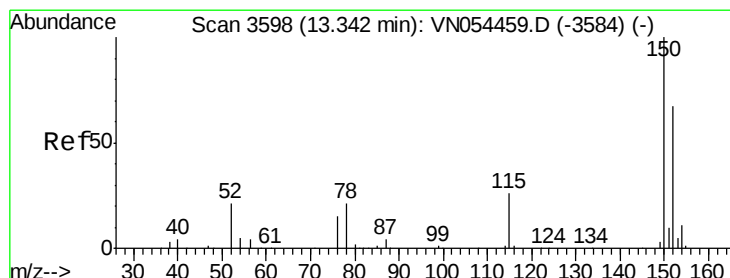
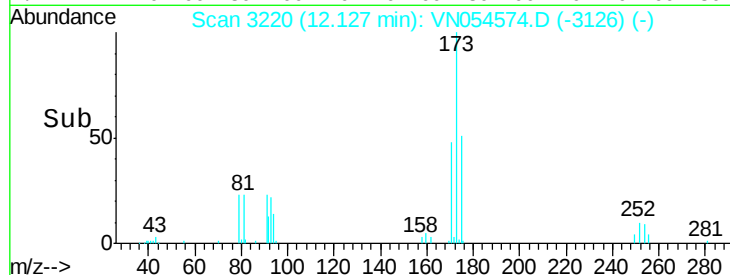
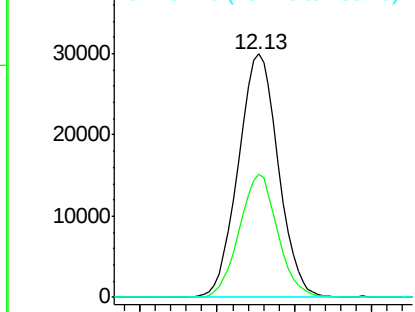
#71
Bromoform
Concen: 19.428 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBSD02

Tot Ion:173 Resp: 53945
Ion Ratio Lower Upper
173 100
175 48.5 24.4 73.2
254 0.0 0.1 0.1#

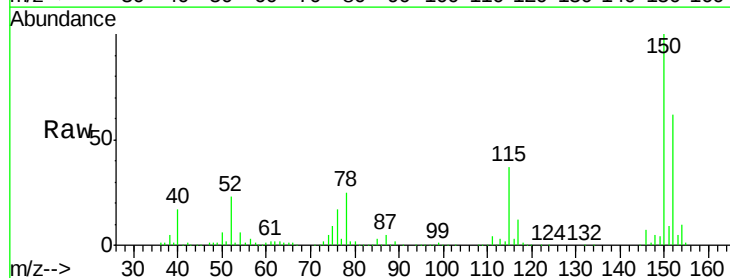


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

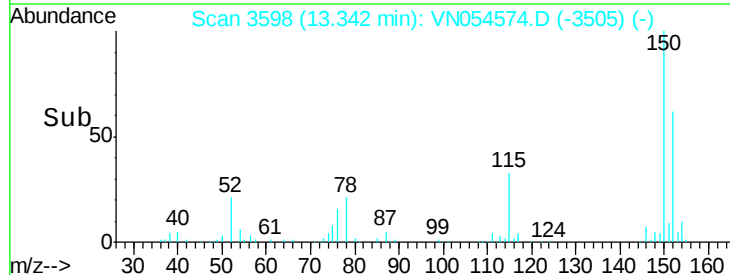
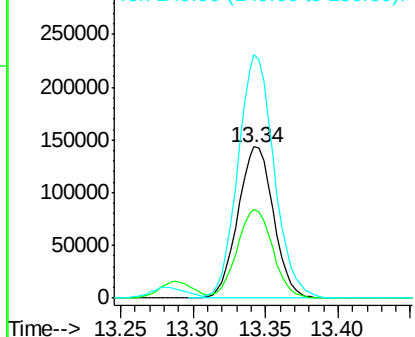


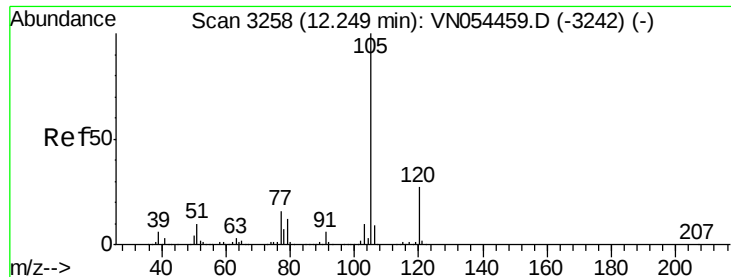
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054574.D
Acq: 22 Mar 2019 23:35

Tgt Ion:152 Resp: 244024
Ion Ratio Lower Upper
152 100
115 58.9 27.2 81.6
150 163.9 0.0 349.2



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





#73

Isopropylbenzene

Concen: 21.322 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampled :

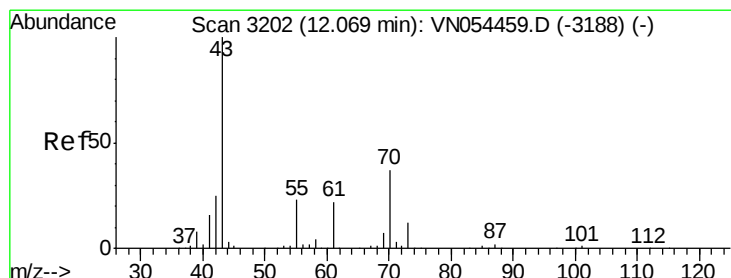
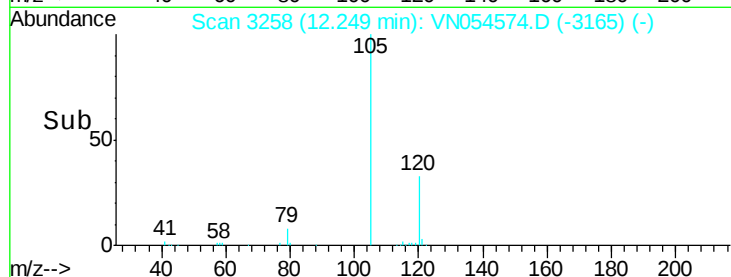
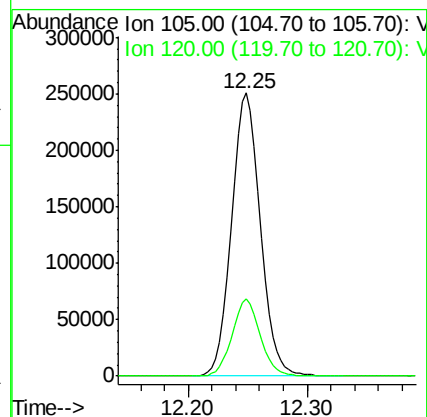
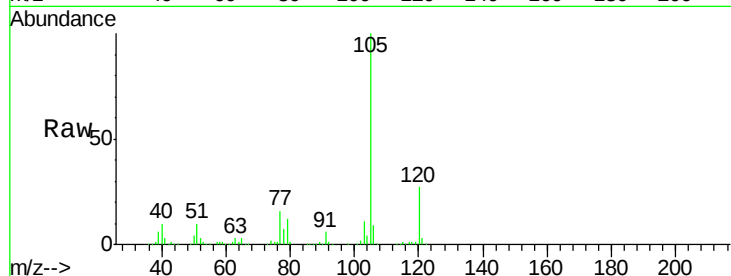
VN0322MBSD02

Tot Ion:105 Resp: 419267

Ion Ratio Lower Upper

105 100

120 26.6 13.8 41.3



#74

N-ethyl acetate

Concen: 23.702 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Tgt Ion: 43 Resp: 134012

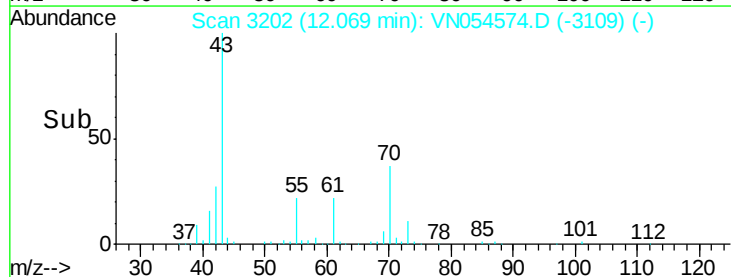
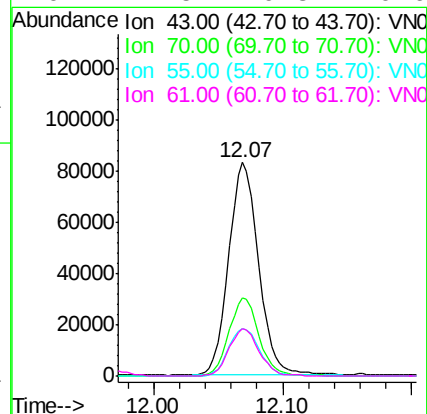
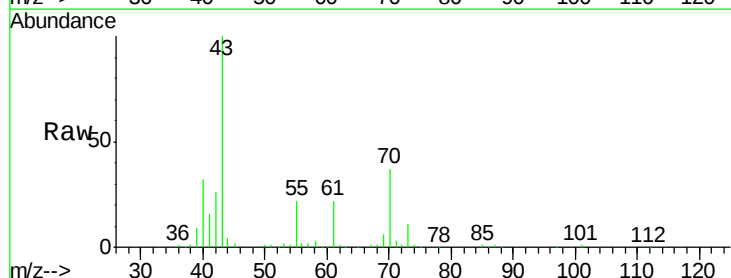
Ion Ratio Lower Upper

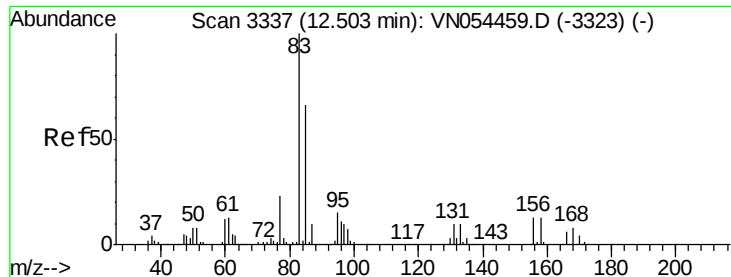
43 100

70 36.9 35.4 53.0

55 23.7 19.8 29.6

61 22.5 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.410 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS02

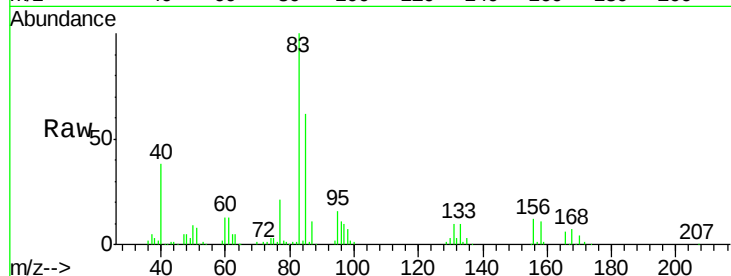
Tot Ion: 83 Resp: 109572

Ion Ratio Lower Upper

83 100

131 10.5 5.8 17.4

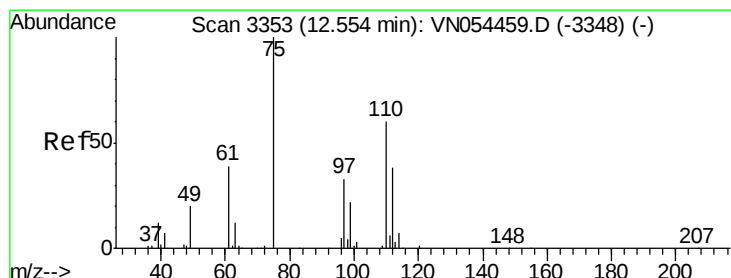
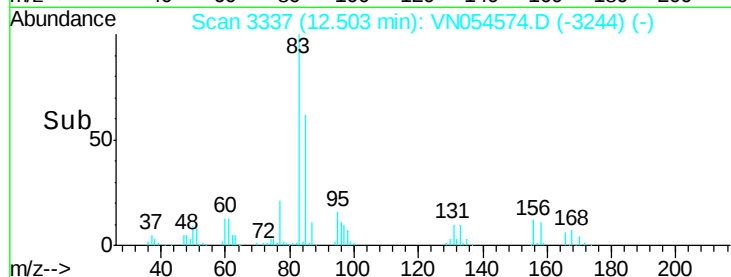
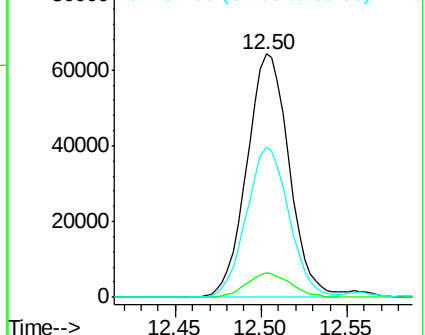
85 62.1 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 32.118 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054574.D

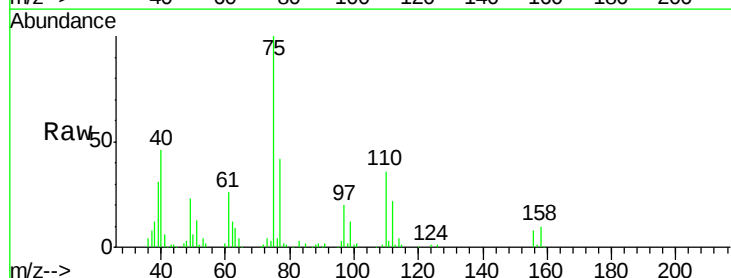
Acq: 22 Mar 2019 23:35

Tgt Ion: 75 Resp: 124372

Ion Ratio Lower Upper

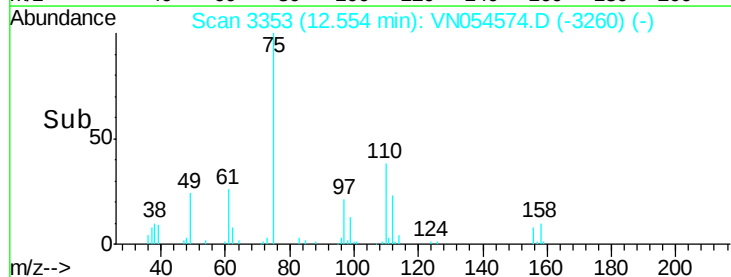
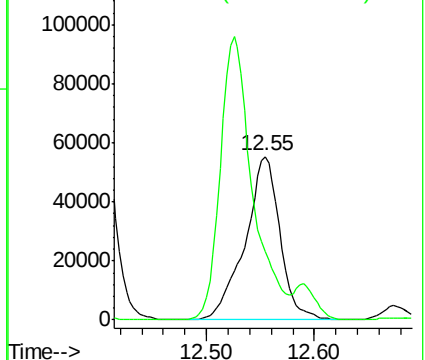
75 100

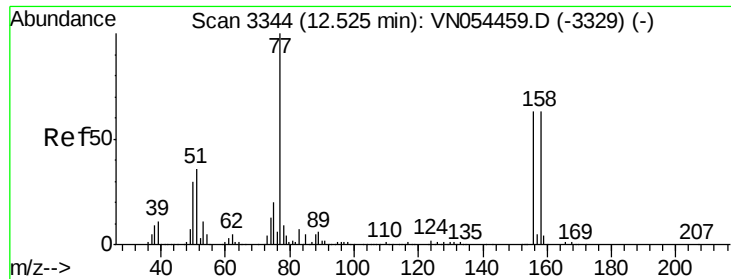
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 21.199 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

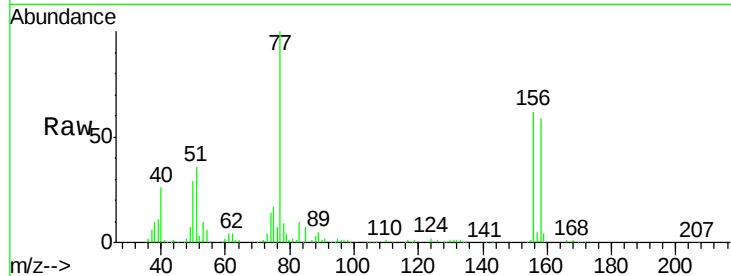
Tot Ion:156 Resp: 103388

Ion Ratio Lower Upper

156 100

77 193.4 81.5 244.4

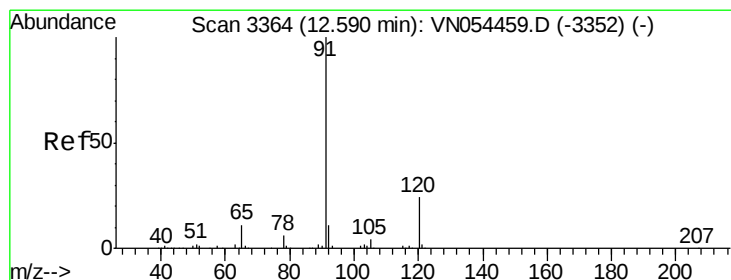
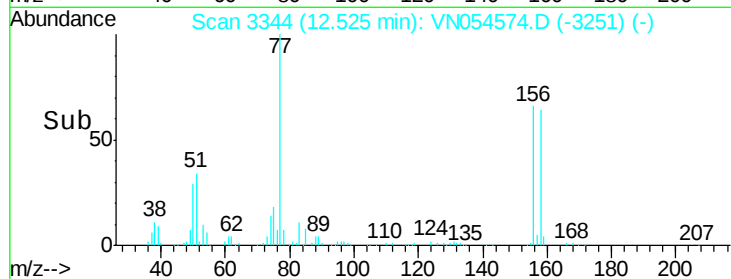
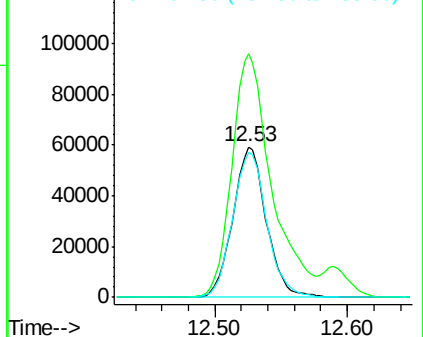
158 98.6 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.492 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054574.D

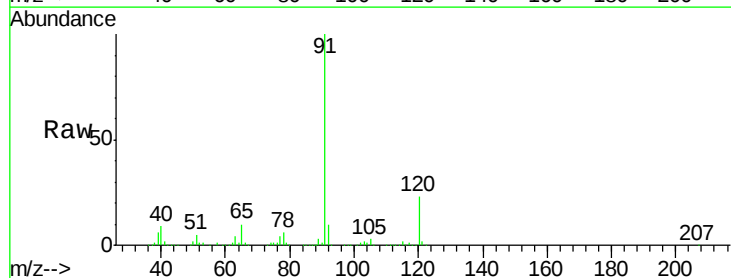
Acq: 22 Mar 2019 23:35

Tgt Ion: 91 Resp: 458263

Ion Ratio Lower Upper

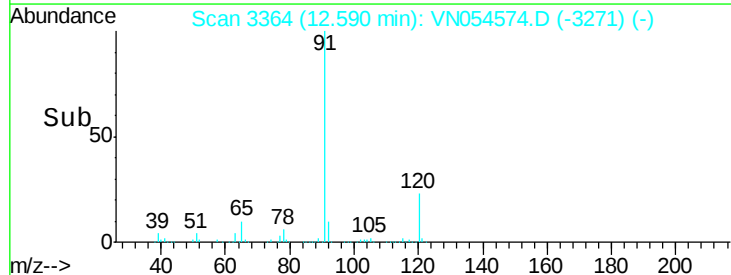
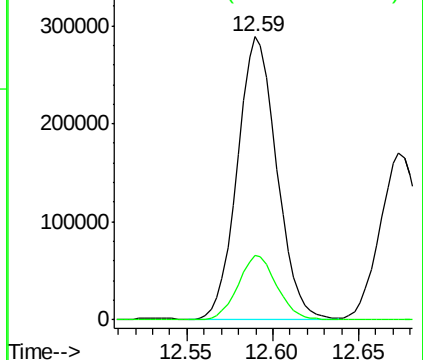
91 100

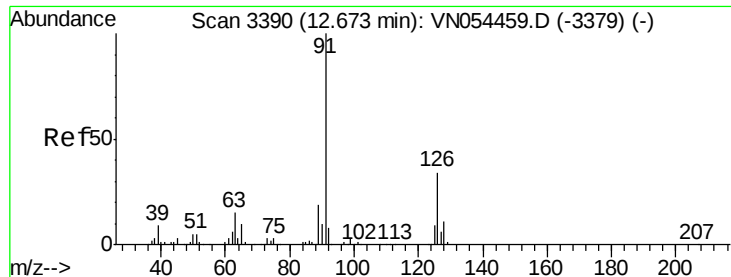
120 22.5 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.344 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

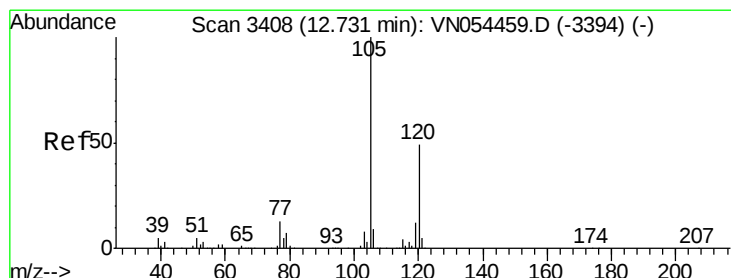
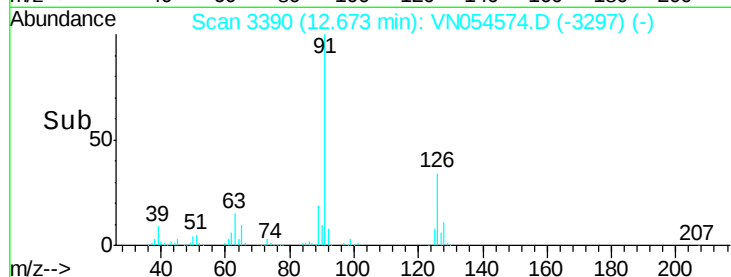
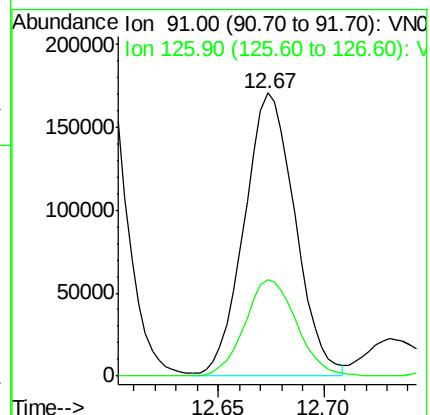
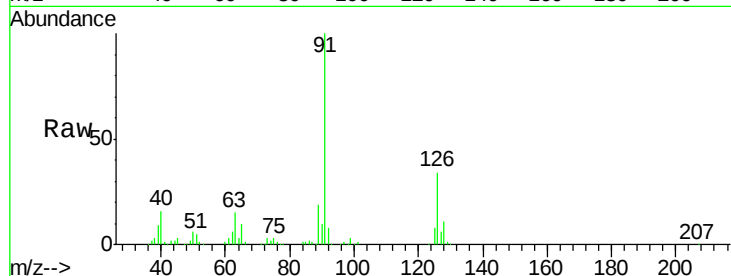
VN0322MBSD02

Tot Ion: 91 Resp: 283806

Ion Ratio Lower Upper

91 100

126 35.1 18.7 56.1



#80

1,3,5-Trimethylbenzene

Concen: 21.337 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054574.D

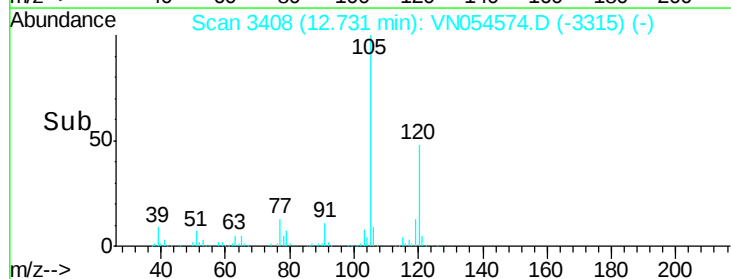
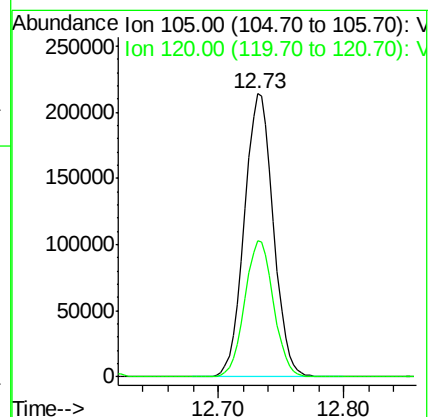
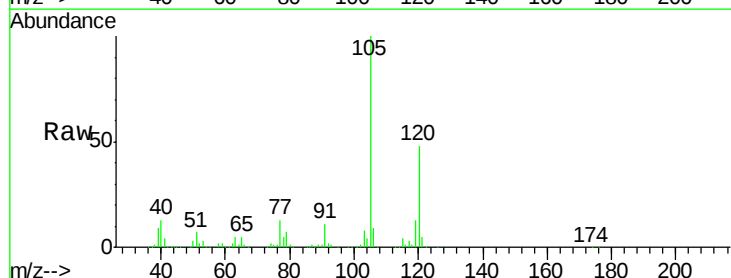
Acq: 22 Mar 2019 23:35

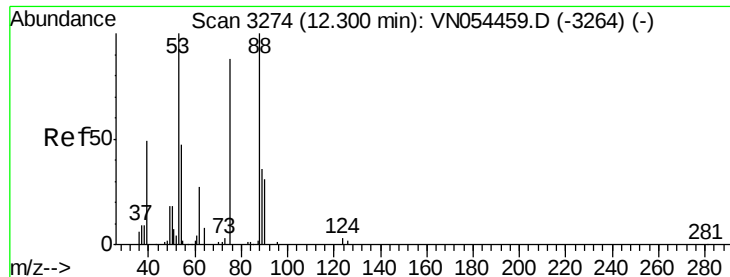
Tgt Ion: 105 Resp: 343868

Ion Ratio Lower Upper

105 100

120 47.8 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.417 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

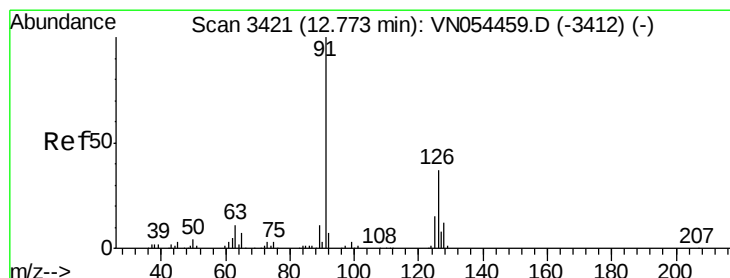
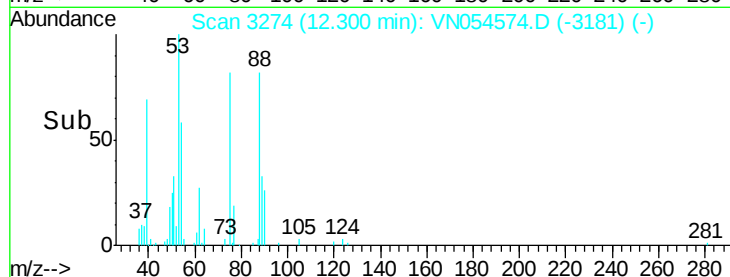
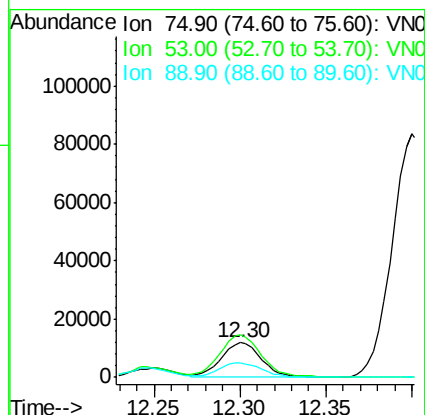
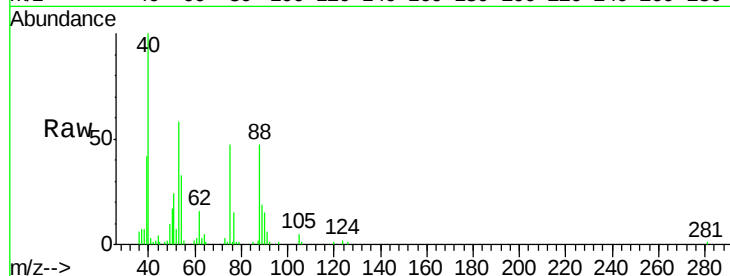
Tot Ion: 75 Resp: 19484

Ion Ratio Lower Upper

75 100

53 128.3 76.2 114.2#

89 44.2 39.2 58.8



#82

4-Chlorotoluene

Concen: 21.151 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054574.D

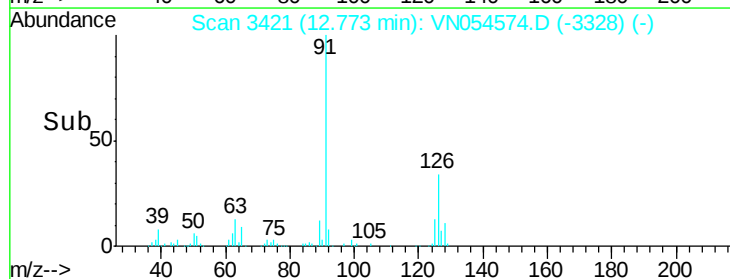
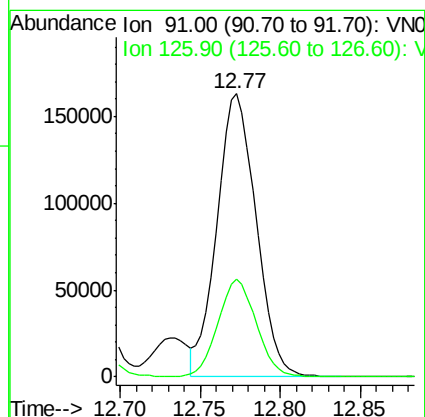
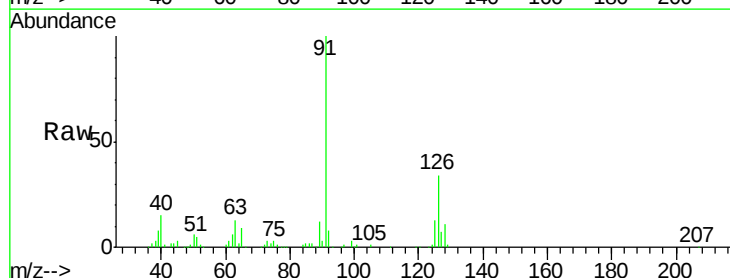
Acq: 22 Mar 2019 23:35

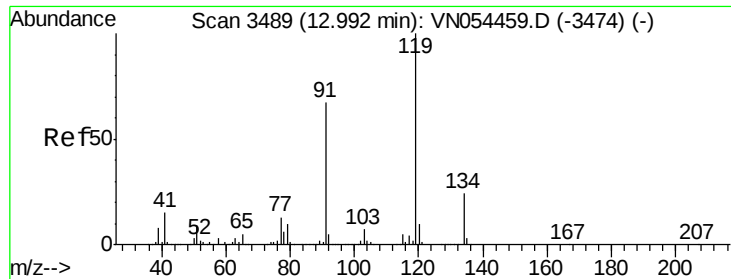
Tgt Ion: 91 Resp: 272616

Ion Ratio Lower Upper

91 100

126 33.9 18.1 54.1

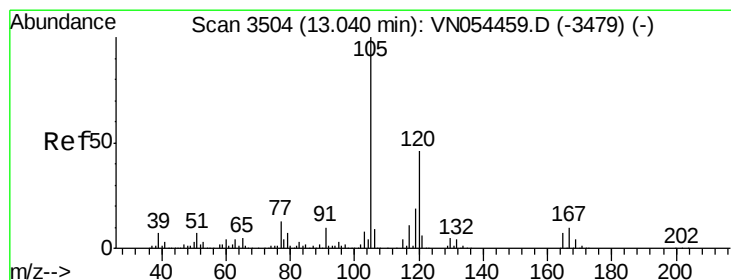
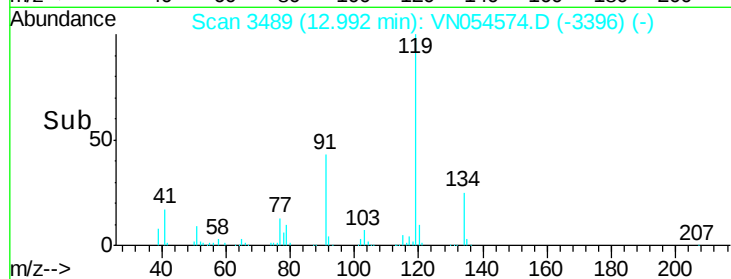
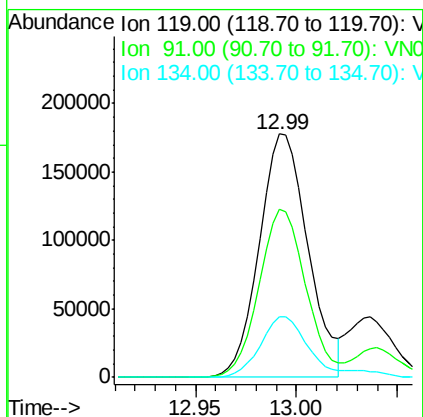
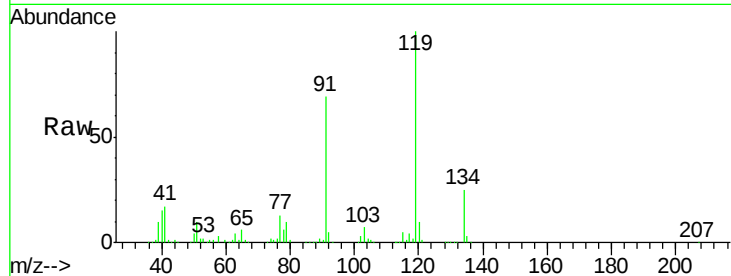




#83
 tert-Butylbenzene
 Concen: 21.360 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

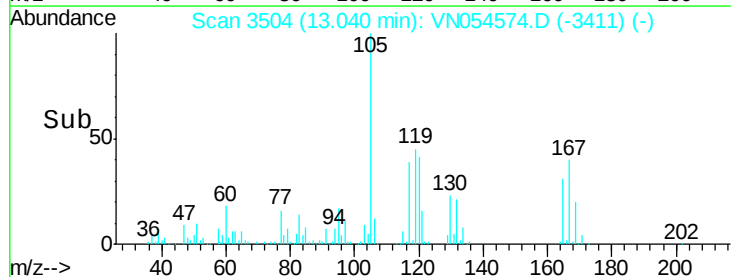
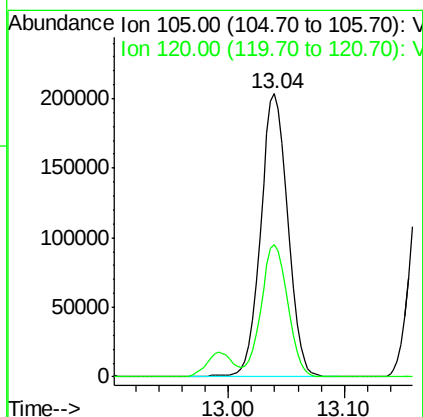
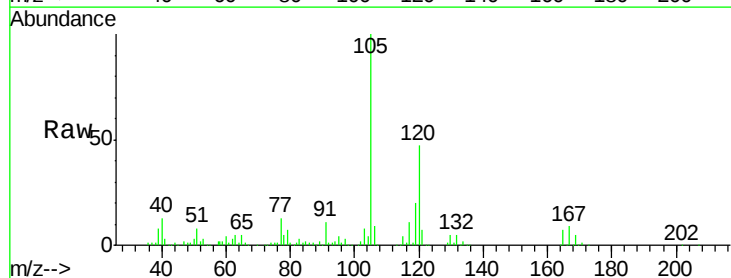
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

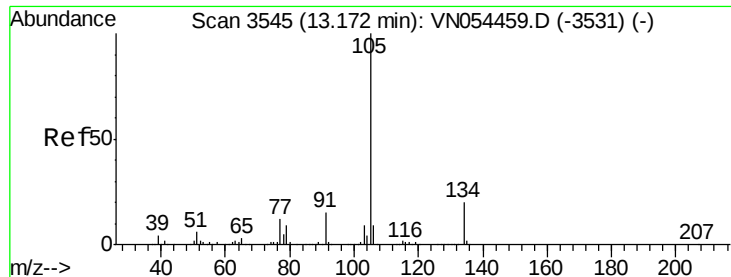
Tot Ion:119 Resp: 299650
 Ion Ratio Lower Upper
 119 100
 91 66.1 30.9 92.8
 134 26.1 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 21.002 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Tgt Ion:105 Resp: 332115
 Ion Ratio Lower Upper
 105 100
 120 46.1 23.4 70.3





#85

sec-Butylbenzene

Concen: 21.153 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleID :

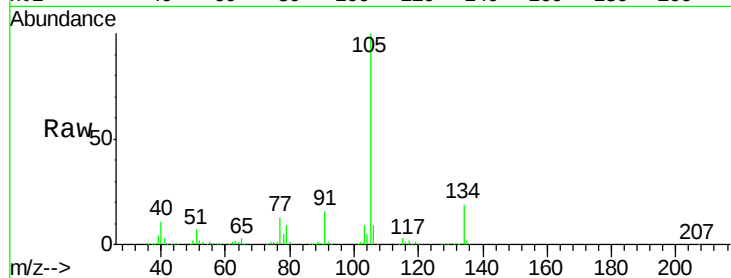
VN0322MBSD02

Tot Ion:105 Resp: 369908

Ion Ratio Lower Upper

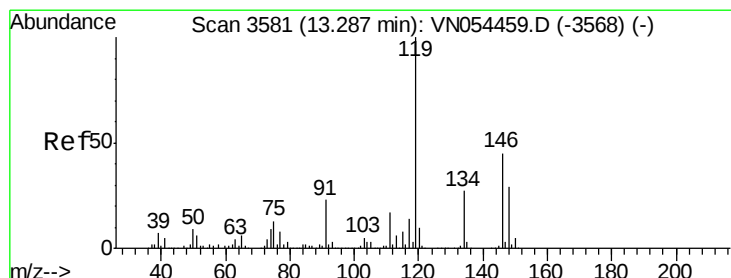
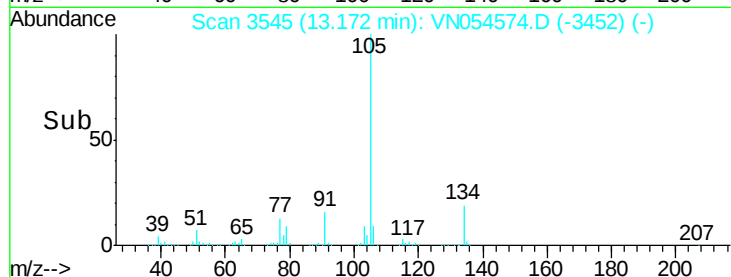
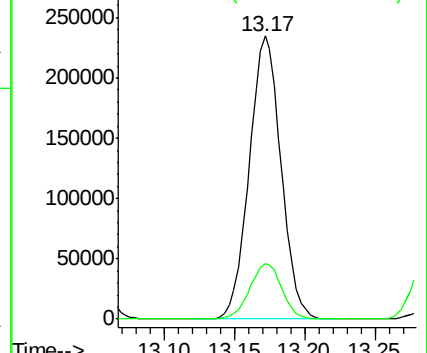
105 100

134 19.8 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.689 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

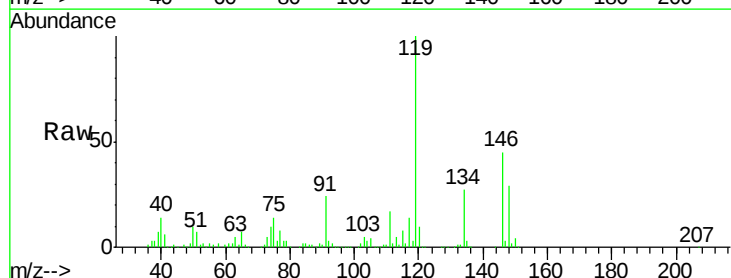
Tgt Ion:119 Resp: 323684

Ion Ratio Lower Upper

119 100

134 26.8 13.6 40.8

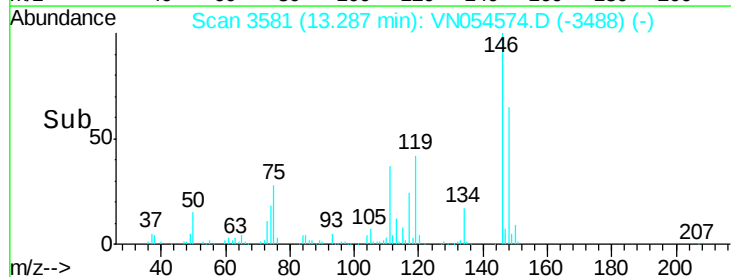
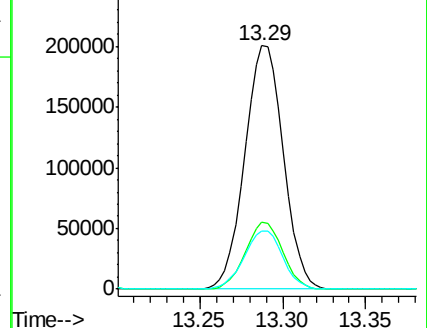
91 24.2 11.1 33.3

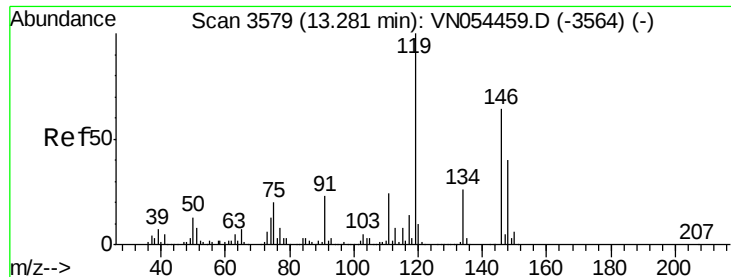


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

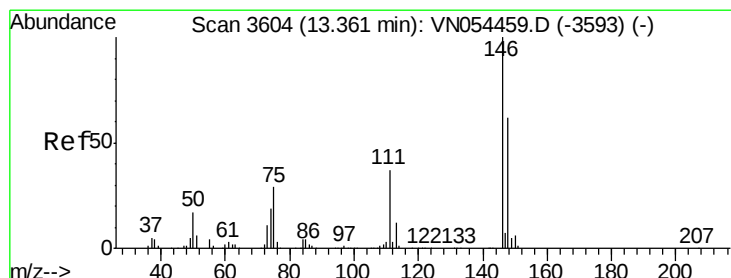
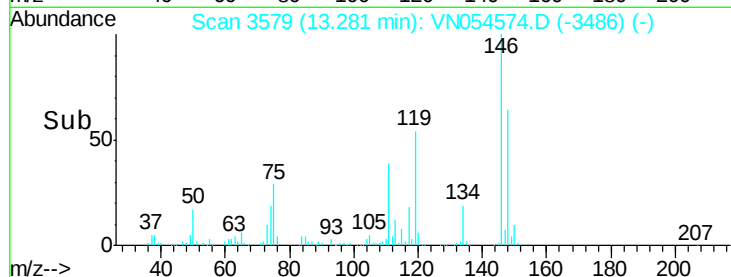
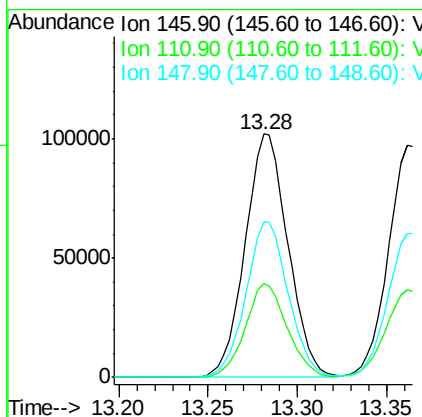
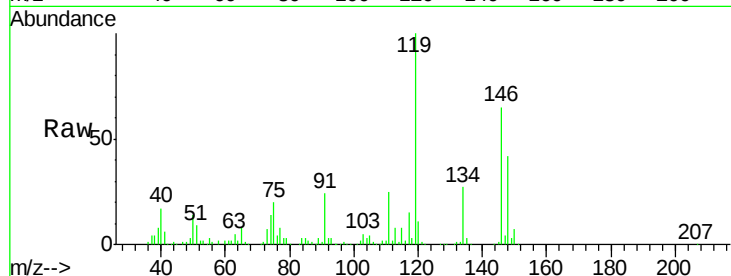




#87
 1,3-Dichlorobenzene
 Concen: 21.171 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

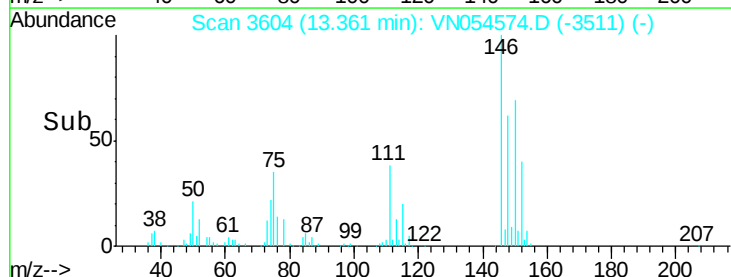
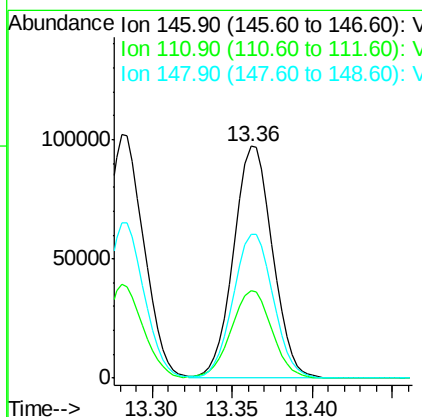
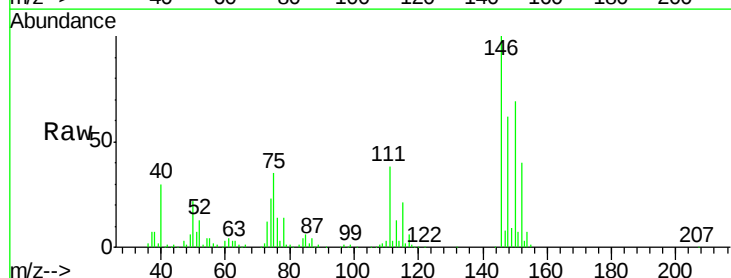
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

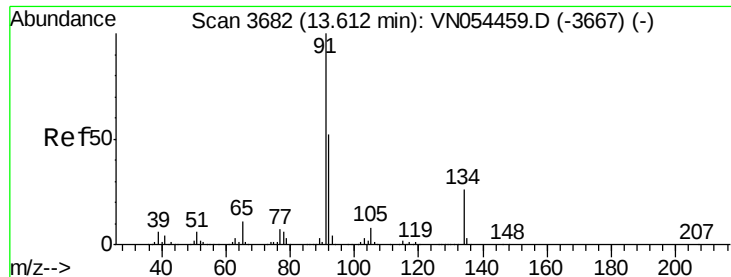
Tot Ion:146 Resp: 171099
 Ion Ratio Lower Upper
 146 100
 111 37.8 18.8 56.3
 148 63.3 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 20.555 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Tgt Ion:146 Resp: 161631
 Ion Ratio Lower Upper
 146 100
 111 39.6 18.1 54.1
 148 64.0 32.0 96.0





#89

n-Butylbenzene

Concen: 19.643 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

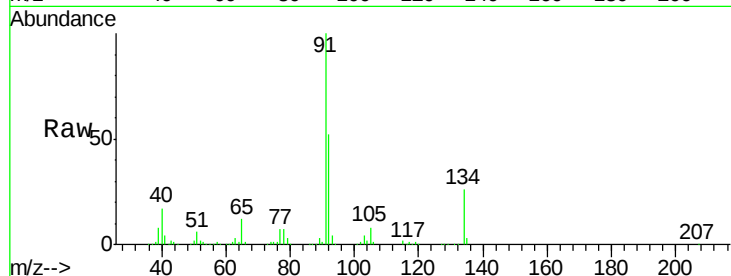
Tot Ion: 91 Resp: 240300

Ion Ratio Lower Upper

91 100

92 53.3 26.2 78.6

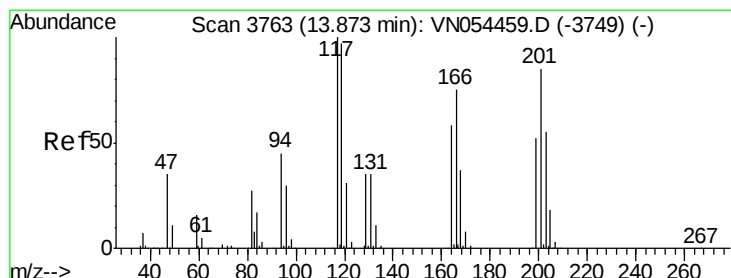
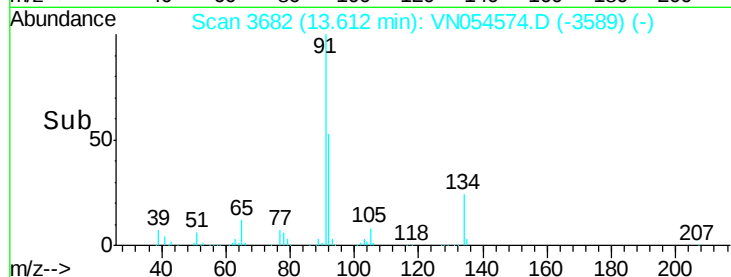
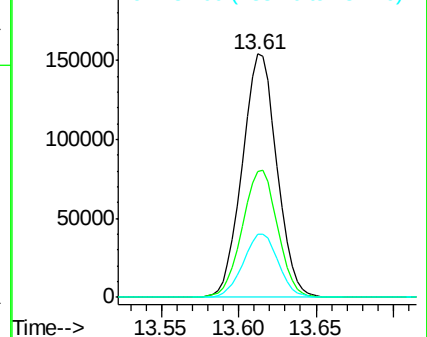
134 26.3 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): VN0



#90

Hexachloroethane

Concen: 21.535 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN054574.D

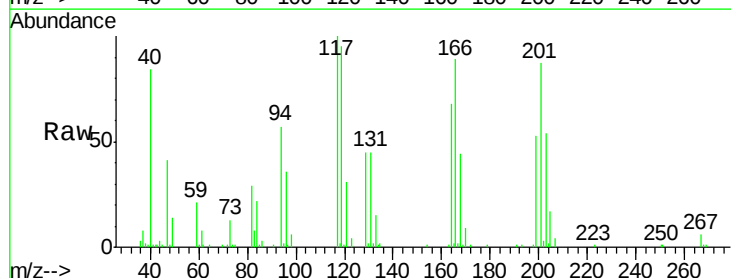
Acq: 22 Mar 2019 23:35

Tgt Ion: 117 Resp: 52298

Ion Ratio Lower Upper

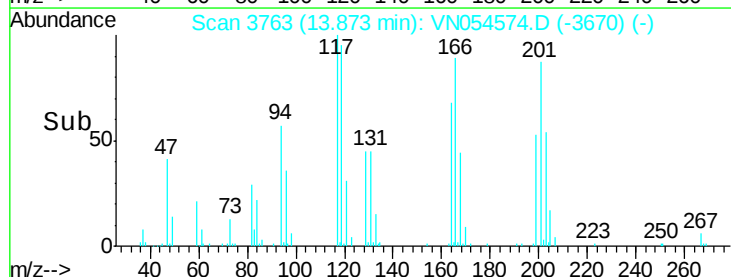
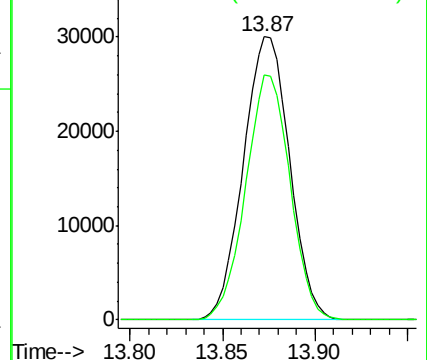
117 100

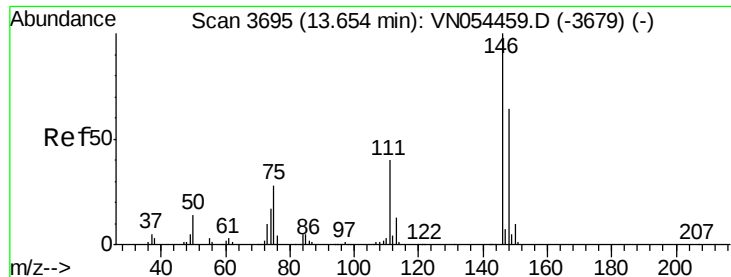
201 82.8 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.812 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS02

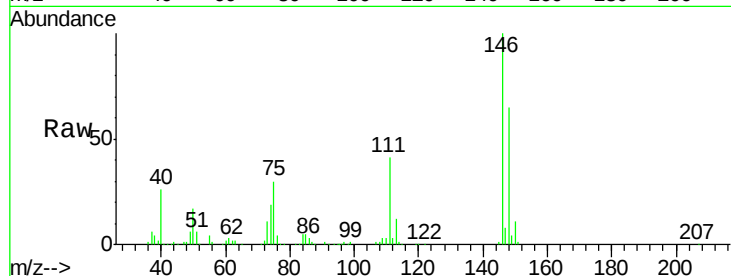
Tot Ion:146 Resp: 170744

Ion Ratio Lower Upper

146 100

111 40.3 19.1 57.3

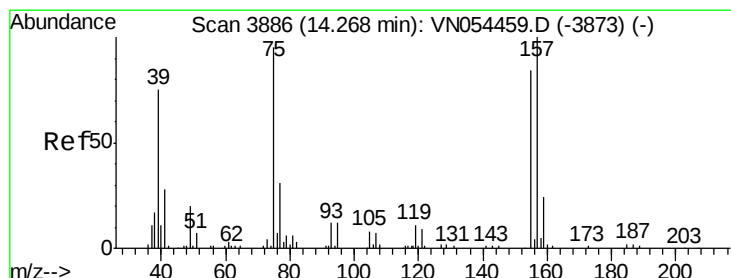
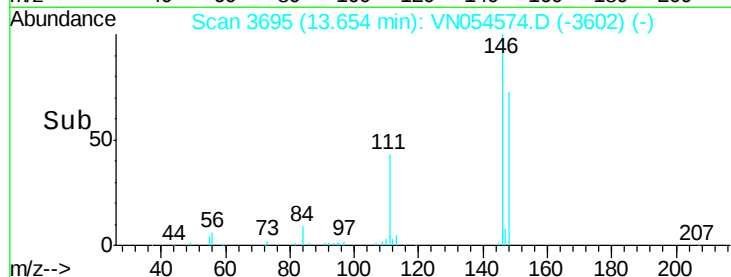
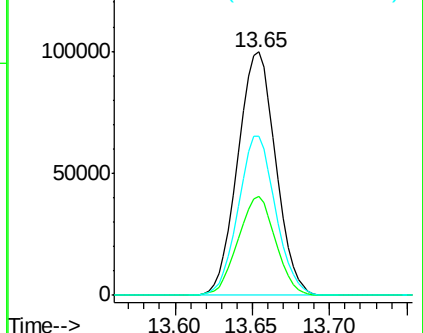
148 63.9 32.4 97.0



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: 23.628 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

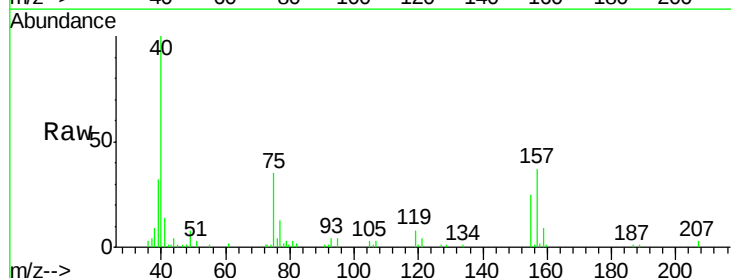
Tgt Ion: 75 Resp: 15557

Ion Ratio Lower Upper

75 100

155 79.4 50.1 150.3

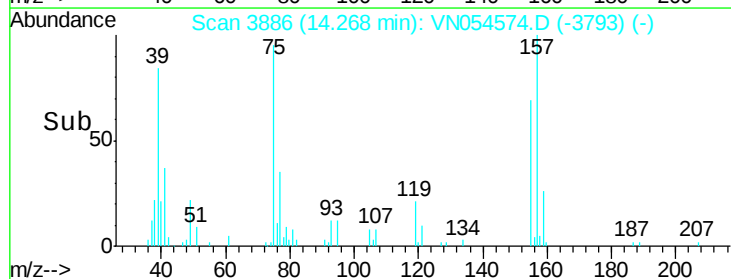
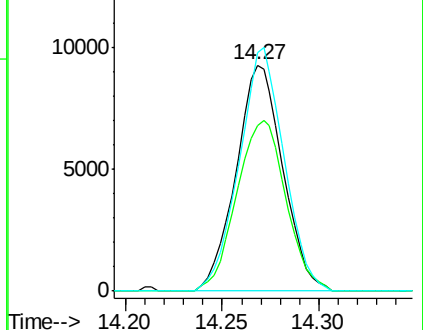
157 103.6 63.1 189.3

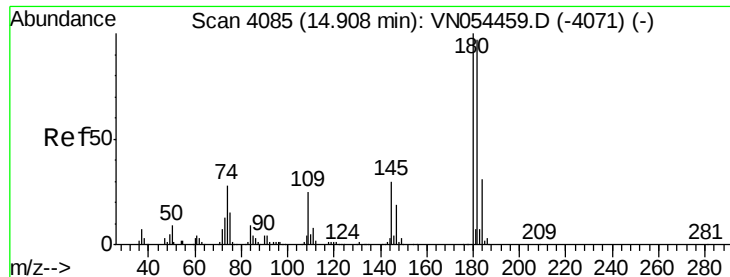


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

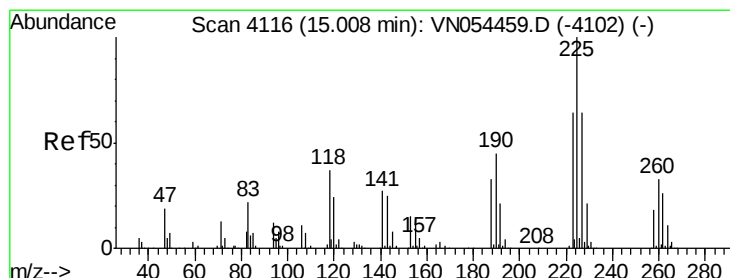
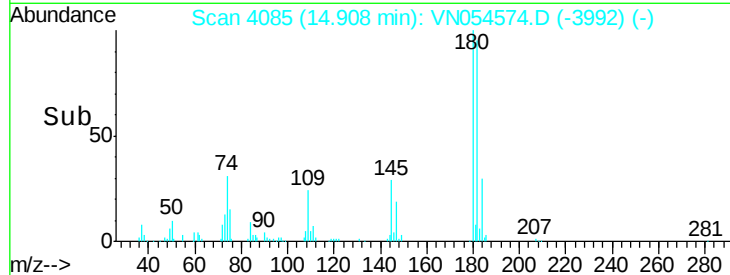
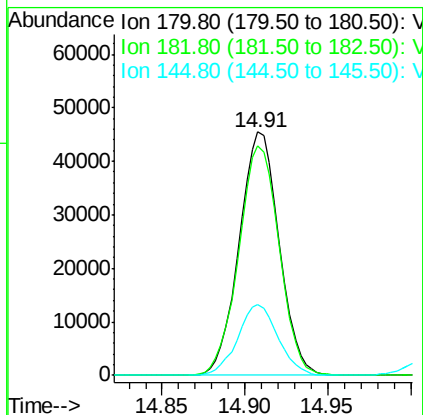
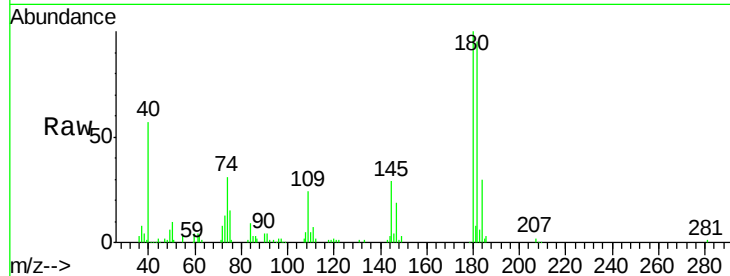




#93
 1,2,4-Trichlorobenzene
 Concen: 19.491 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

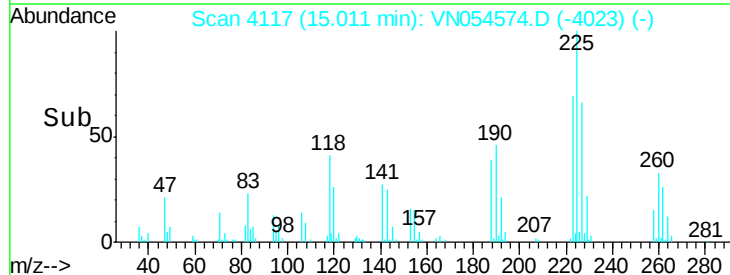
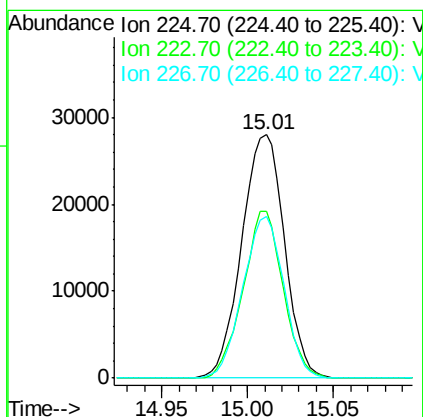
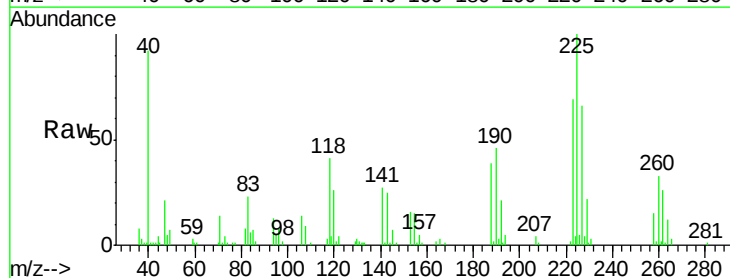
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBSD02

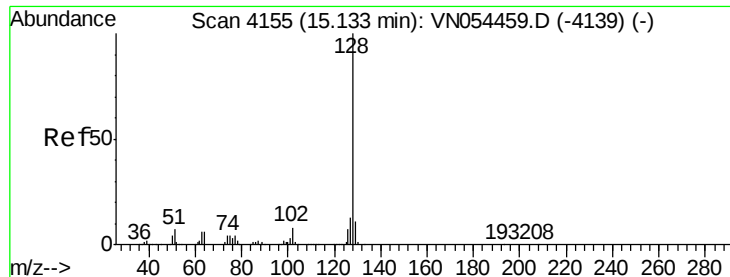
Tot Ion:180 Resp: 76060
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.0 144.2
 145 29.4 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 20.532 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054574.D
 Acq: 22 Mar 2019 23:35

Tgt Ion:225 Resp: 48220
 Ion Ratio Lower Upper
 225 100
 223 64.3 31.1 93.5
 227 63.8 31.9 95.9





#95

Naphthalene

Concen: 21.298 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBSD02

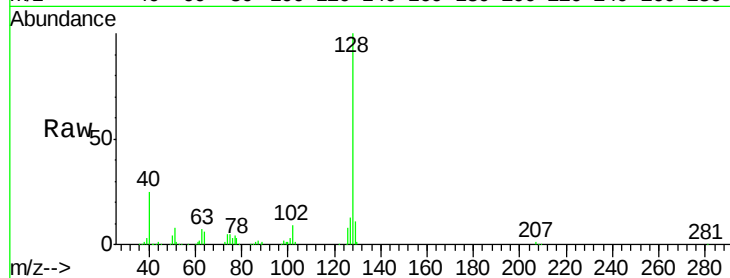
Tot Ion:128 Resp: 185381

Ion Ratio Lower Upper

128 100

127 13.3 10.1 15.1

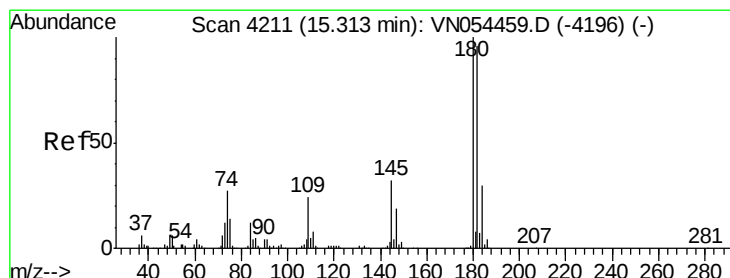
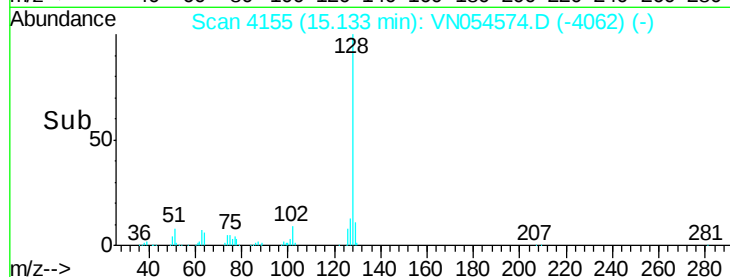
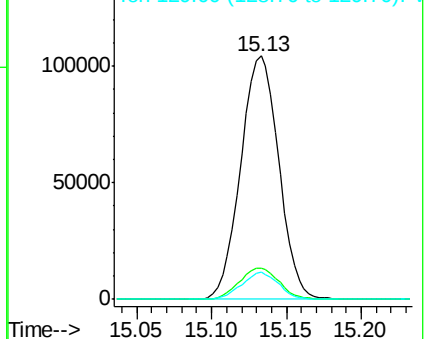
129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.723 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054574.D

Acq: 22 Mar 2019 23:35

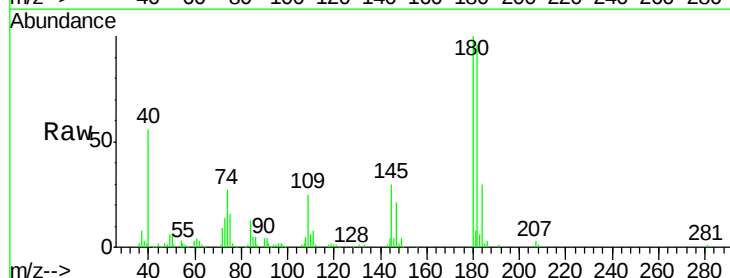
Tgt Ion:180 Resp: 80484

Ion Ratio Lower Upper

180 100

182 94.6 47.5 142.6

145 30.5 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

