

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033119\
 Data File : VN054841.D
 Acq On : 31 Mar 2019 10:43
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 02:43:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	495812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	792312	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	699667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	319346	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	338902	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	
35) Dibromofluoromethane	7.59	113	266263	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
50) Toluene-d8	10.09	98	1009070	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
62) 4-Bromofluorobenzene	12.40	95	348210	53.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	248408	49.532	ug/l	99
3) Chloromethane	2.06	50	328887	47.428	ug/l	99
4) Vinyl Chloride	2.19	62	309684	49.731	ug/l	97
5) Bromomethane	2.57	94	152707	46.621	ug/l	95
6) Chloroethane	2.71	64	172844	49.707	ug/l	97
7) Trichlorofluoromethane	3.02	101	397633	51.938	ug/l	100
8) Diethyl Ether	3.41	74	127034	51.531	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.75	101	212756	52.790	ug/l	92
10) Methyl Iodide	3.94	142	235304	42.648	ug/l #	87
11) Tert butyl alcohol	4.82	59	105329	302.468	ug/l	99
12) 1,1-Dichloroethene	3.73	96	203907	52.319	ug/l #	76
13) Acrolein	3.61	56	69387	222.885	ug/l	99
14) Allyl chloride	4.31	41	493309	51.388	ug/l #	91
15) Acrylonitrile	4.99	53	529532	273.578	ug/l	100
16) Acetone	3.82	43	649842	407.725	ug/l #	82
17) Carbon Disulfide	4.04	76	639515	50.591	ug/l	100
18) Methyl Acetate	4.33	43	237412	57.324	ug/l #	88
19) Methyl tert-butyl Ether	5.05	73	720026	52.815	ug/l	93
20) Methylene Chloride	4.55	84	281149	50.008	ug/l #	83
21) trans-1,2-Dichloroethene	5.03	96	263682	51.509	ug/l #	82
22) Diisopropyl ether	5.96	45	1018324	53.634	ug/l #	93
23) Vinyl Acetate	5.90	43	3744314	283.383	ug/l #	92
24) 1,1-Dichloroethane	5.84	63	520520	51.393	ug/l	98
25) 2-Butanone	6.85	43	841152	357.029	ug/l #	88
26) 2,2-Dichloropropane	6.82	77	387797	54.629	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	304150	52.594	ug/l	87
28) Bromochloromethane	7.19	49	272520	53.810	ug/l #	71
29) Tetrahydrofuran	7.22	42	445498	272.253	ug/l #	84
30) Chloroform	7.37	83	513083	53.127	ug/l	100
31) Cyclohexane	7.65	56	495796	53.884	ug/l	88
32) 1,1,1-Trichloroethane	7.57	97	427471	53.411	ug/l	96
36) 1,1-Dichloropropene	7.79	75	393462	53.294	ug/l	96
37) Ethyl Acetate	6.94	43	296295	54.728	ug/l #	94
38) Carbon Tetrachloride	7.77	117	371784	51.848	ug/l	100

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	444482	54.762	ug/l	89
40) Benzene	8.04	78	1137432	53.843	ug/l	99
41) Methacrylonitrile	7.17	41	172493	56.716	ug/l	88
42) 1,2-Dichloroethane	8.12	62	404101	53.574	ug/l	97
43) Isopropyl Acetate	8.17	43	511664	58.164	ug/l #	93
44) Trichloroethene	8.83	130	296903	54.142	ug/l	92
45) 1,2-Dichloropropane	9.12	63	320670	53.236	ug/l	98
46) Dibromomethane	9.21	93	185153	54.641	ug/l	88
47) Bromodichloromethane	9.40	83	395917	56.220	ug/l	98
48) Methyl methacrylate	9.20	41	260604	54.650	ug/l	88
49) 1,4-Dioxane	9.20	88	58292	1231.986	ug/l #	82
51) 4-Methyl-2-Pentanone	9.99	43	1481801	299.603	ug/l	92
52) Toluene	10.16	92	689747	54.871	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	389722	58.830	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	462614	58.460	ug/l	91
55) 1,1,2-Trichloroethane	10.56	97	253845	54.309	ug/l	97
56) Ethyl methacrylate	10.43	69	356095	58.077	ug/l #	87
57) 1,3-Dichloropropane	10.71	76	442020	55.007	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	620369	235.510	ug/l #	89
59) 2-Hexanone	10.75	43	1066236	336.760	ug/l	91
60) Dibromochloromethane	10.90	129	275830	58.257	ug/l	99
61) 1,2-Dibromoethane	11.01	107	248684	55.674	ug/l	99
64) Tetrachloroethene	10.63	164	281108	52.357	ug/l	96
65) Chlorobenzene	11.43	112	728457	53.177	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	279110	54.435	ug/l	99
67) Ethyl Benzene	11.51	91	1333725	53.953	ug/l	98
68) m/p-Xylenes	11.62	106	995195	108.788	ug/l	94
69) o-Xylene	11.95	106	474127	52.854	ug/l	93
70) Styrene	11.96	104	812567	56.652	ug/l	97
71) Bromoform	12.13	173	174720	58.166	ug/l #	98
73) Isopropylbenzene	12.25	105	1281063	49.079	ug/l	97
74) N-amyl acetate	12.07	43	431447	53.056	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	321141	56.017	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	390363	70.364	ug/l #	100
77) Bromobenzene	12.53	156	313634	49.786	ug/l	85
78) n-propylbenzene	12.59	91	1457509	50.804	ug/l	96
79) 2-Chlorotoluene	12.68	91	873730	49.227	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	1065373	49.743	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	76284	53.485	ug/l #	83
82) 4-Chlorotoluene	12.77	91	884917	51.331	ug/l	95
83) tert-Butylbenzene	12.99	119	889154	53.736	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	1052856	51.599	ug/l	96
85) sec-Butylbenzene	13.17	105	1173967	50.458	ug/l	97
86) p-Isopropyltoluene	13.29	119	1037919	50.579	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	545495	51.720	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	531783	51.407	ug/l	98
89) n-Butylbenzene	13.62	91	891625	53.255	ug/l	97
90) Hexachloroethane	13.88	117	174927	50.208	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	529918	49.784	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	47681	53.435	ug/l	84

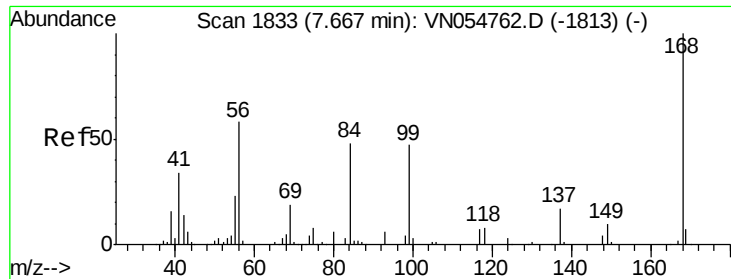
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QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	270110	52.635	ug/l	98
94) Hexachlorobutadiene	15.01	225	160632	52.979	ug/l	99
95) Naphthalene	15.13	128	593877	51.599	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	265251	51.180	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: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

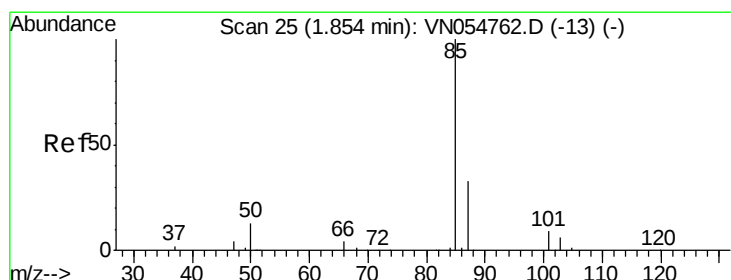
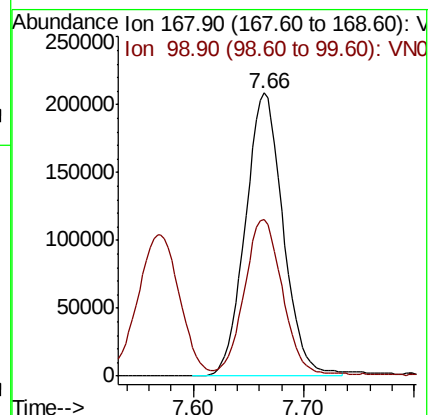
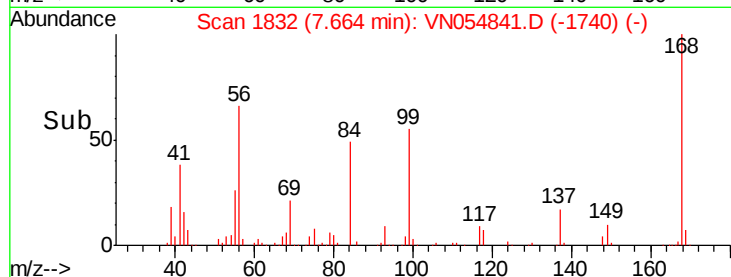
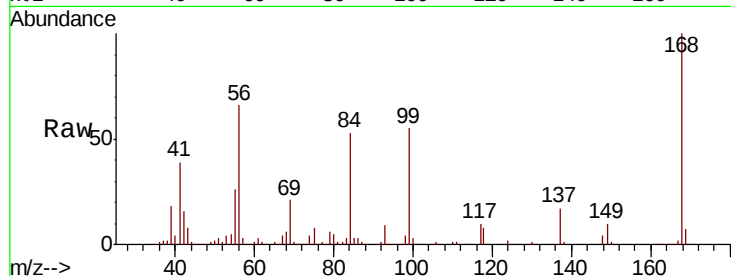
ClientSampled :

Tot Ion:168 Resp: 495812

Ion Ratio Lower Upper

168 100

99 54.2 37.1 55.7



#2

Dichlorodifluoromethane

Concen: 49.532 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054841.D

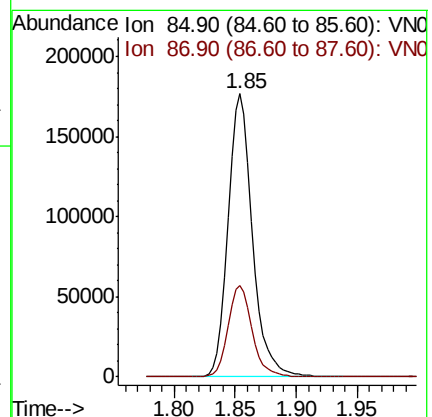
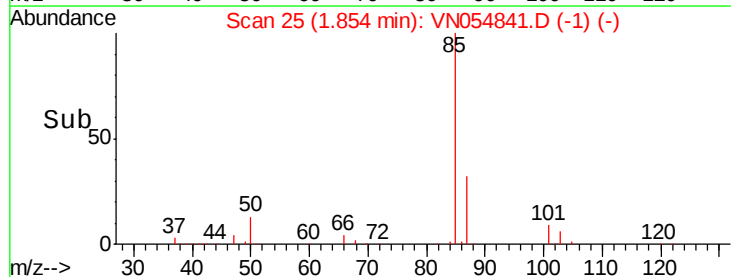
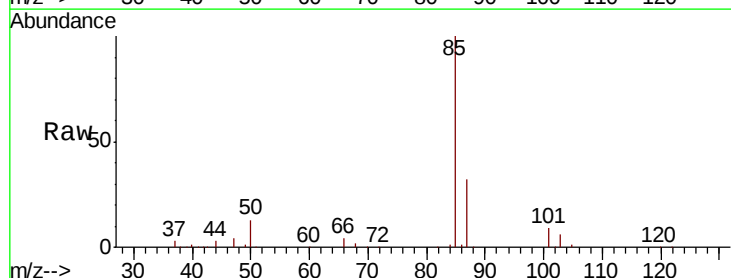
Acq: 31 Mar 2019 10:43

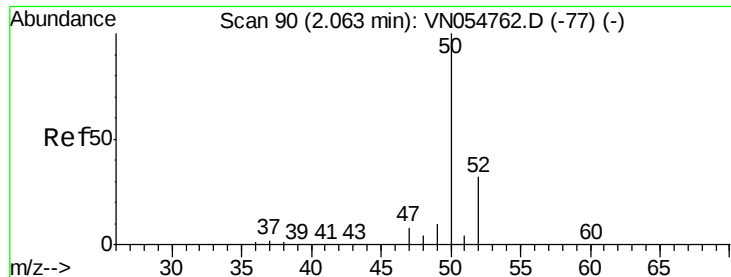
Tgt Ion: 85 Resp: 248408

Ion Ratio Lower Upper

85 100

87 32.3 15.9 47.7





#3

Chloromethane

Concen: 47.428 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

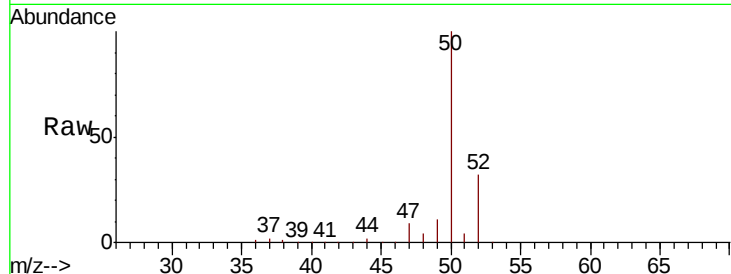
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 50 Resp: 328887

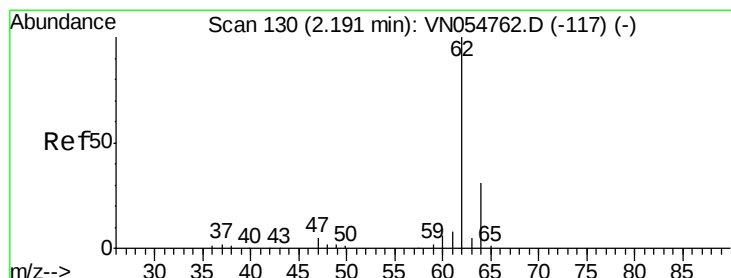
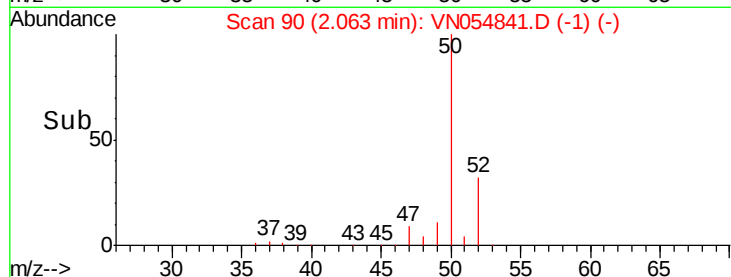
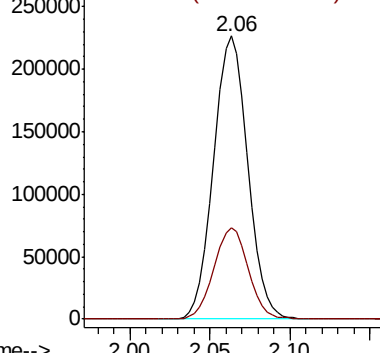
Ion Ratio Lower Upper

50 100

52 32.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VNO
Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 49.731 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054841.D

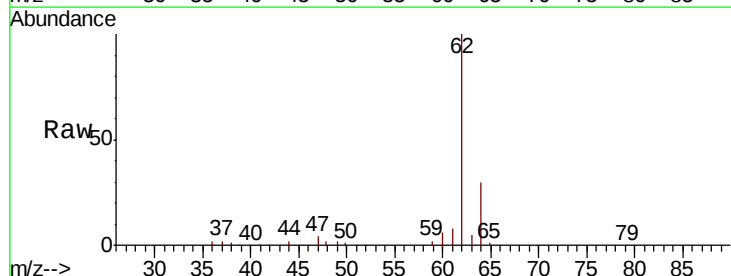
Acq: 31 Mar 2019 10:43

Tgt Ion: 62 Resp: 309684

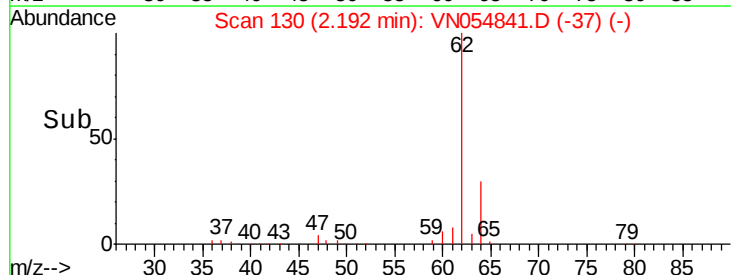
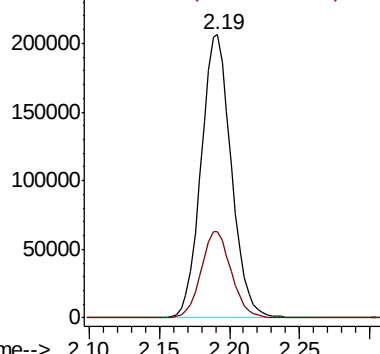
Ion Ratio Lower Upper

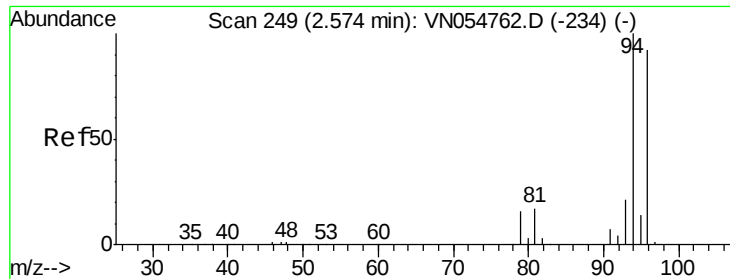
62 100

64 30.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO

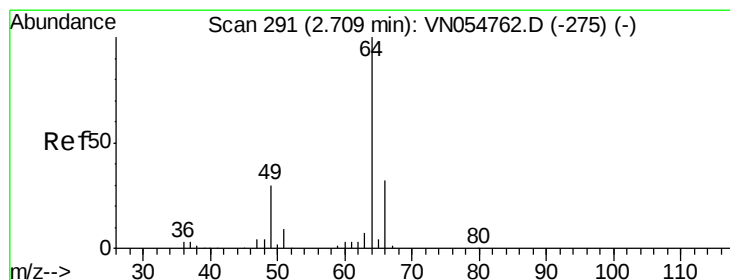
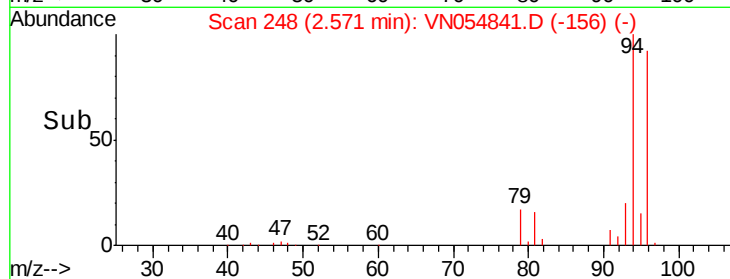
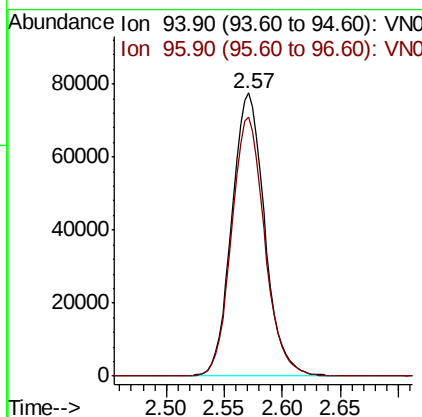
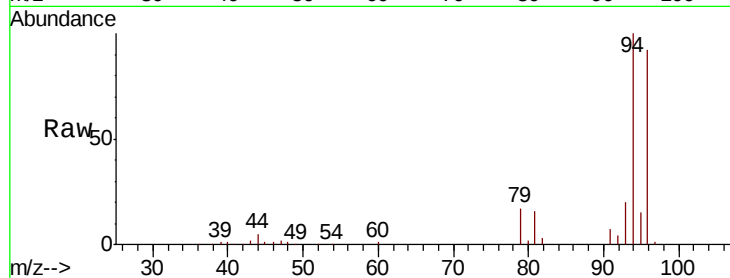




#5
Bromomethane
Concen: 46.621 ug/l
RT: 2.57 min Scan# 248
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

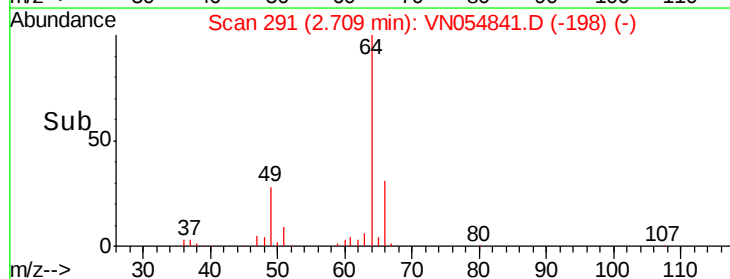
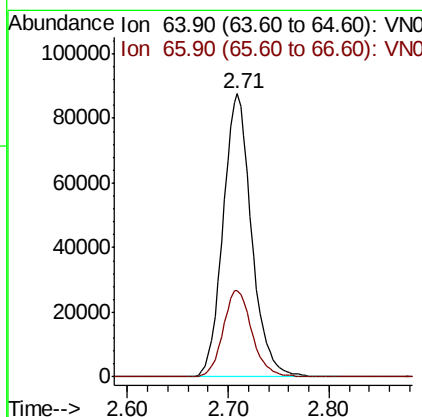
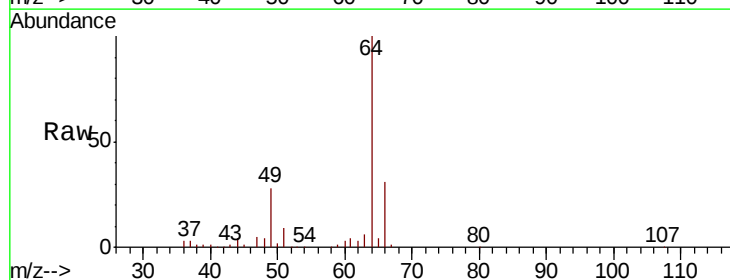
Instrument :
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ClientSampleId :

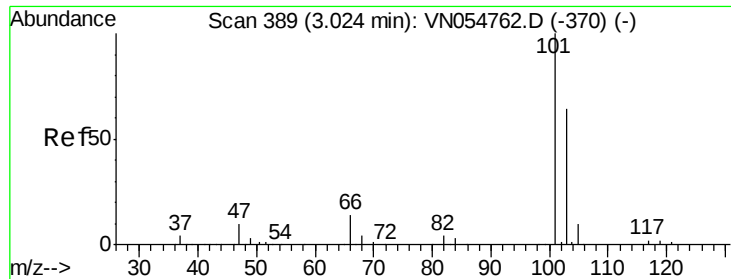
Tot Ion: 94 Resp: 152707
Ion Ratio Lower Upper
94 100
96 91.5 77.0 115.4



#6
Chloroethane
Concen: 49.707 ug/l
RT: 2.71 min Scan# 291
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 64 Resp: 172844
Ion Ratio Lower Upper
64 100
66 30.7 25.7 38.5



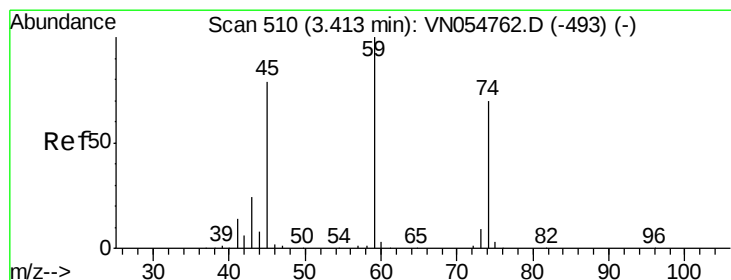
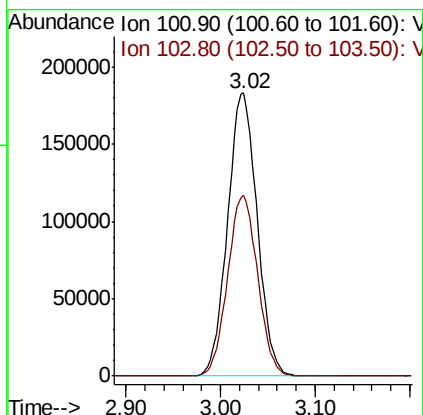
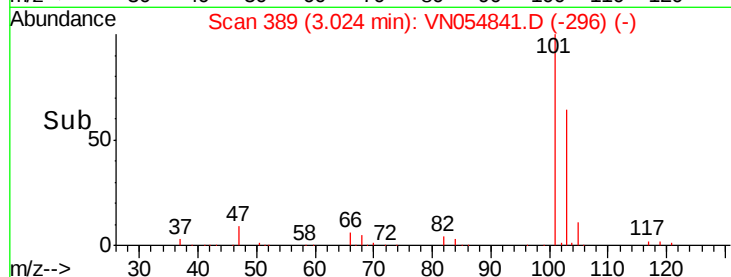
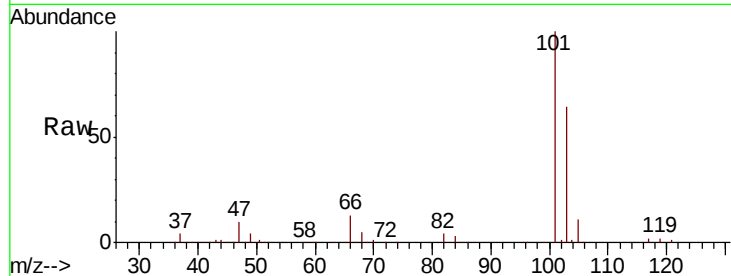


#7

Trichlorofluoromethane
Concen: 51.938 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampled :

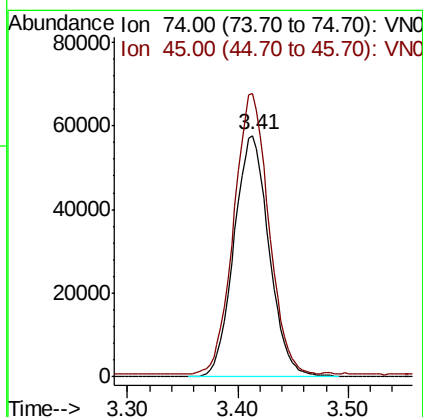
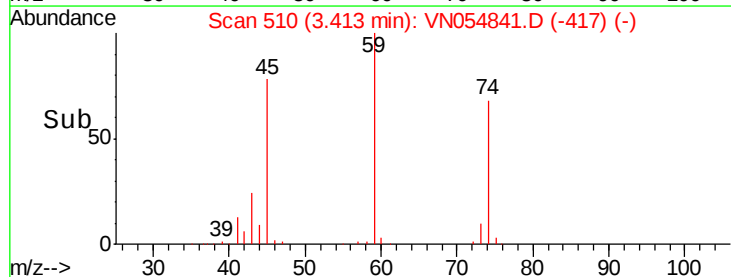
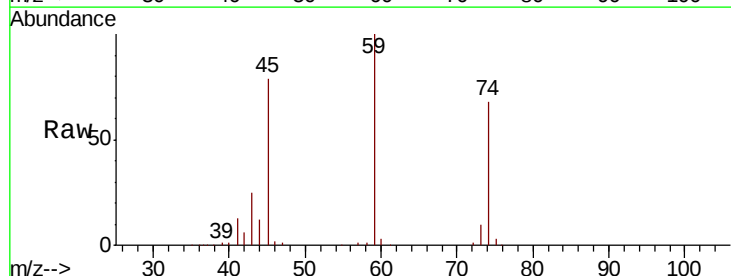
Tot Ion:101 Resp: 397633
Ion Ratio Lower Upper
101 100
103 64.1 51.4 77.2

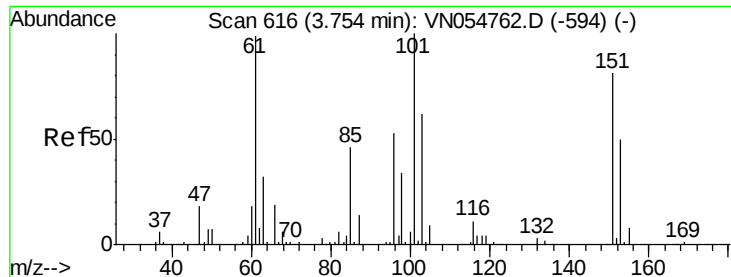


#8

Diethyl Ether
Concen: 51.531 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 74 Resp: 127034
Ion Ratio Lower Upper
74 100
45 116.1 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.790 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

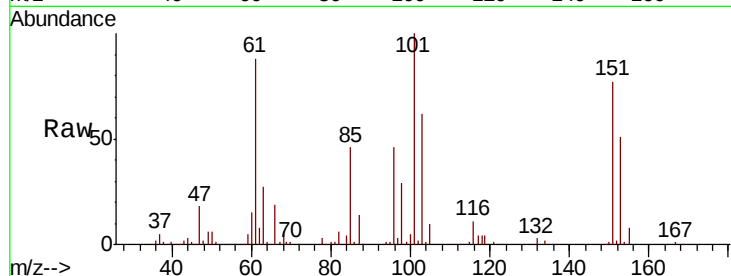
Tot Ion:101 Resp: 212756

Ion Ratio Lower Upper

101 100

85 46.4 32.4 48.6

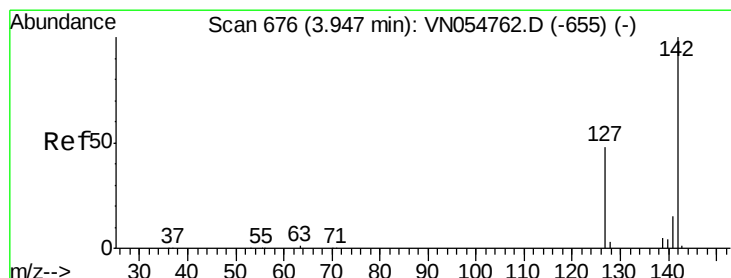
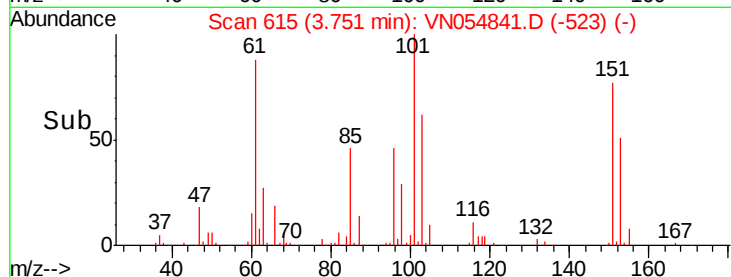
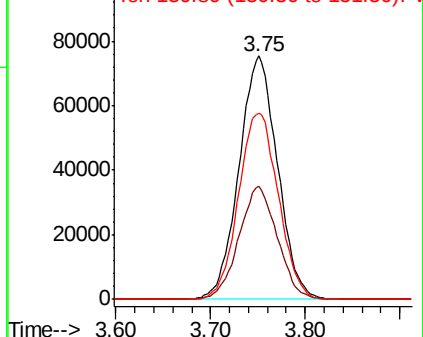
151 79.1 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 42.648 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

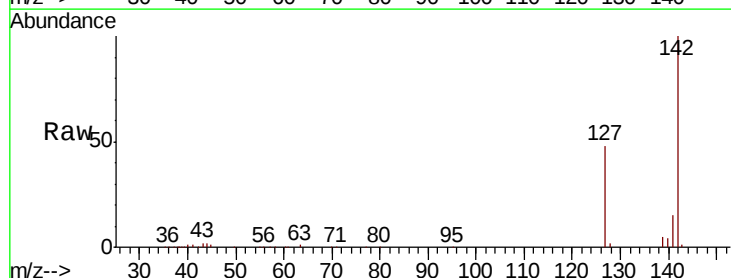
Tgt Ion:142 Resp: 235304

Ion Ratio Lower Upper

142 100

127 48.5 30.3 45.5#

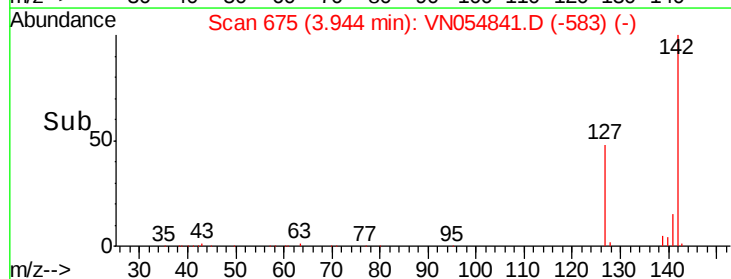
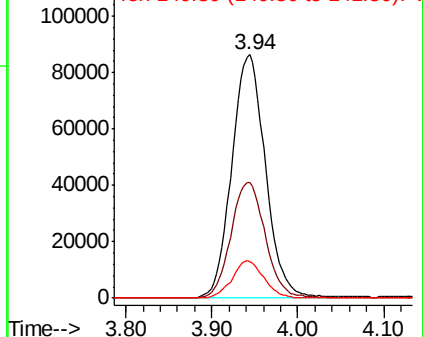
141 14.5 11.2 16.8

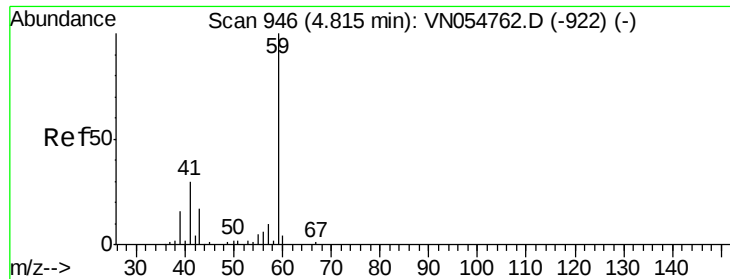


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



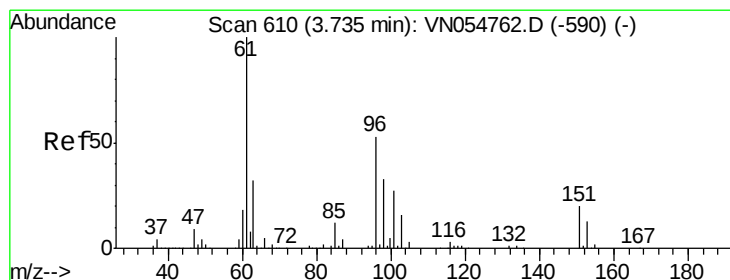
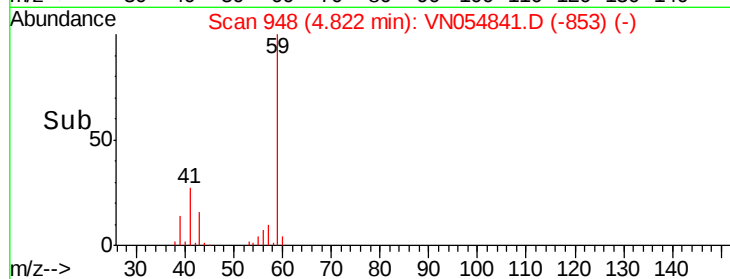
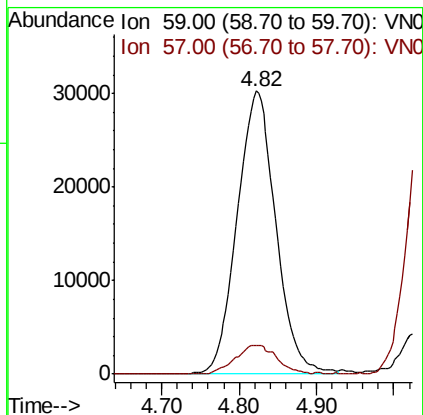
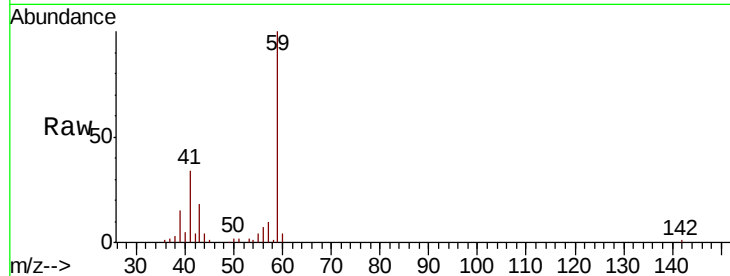


#11

Tert butyl alcohol
 Concen: 302.468 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.01 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Instrument :
 MSVOA_N
 ClientSampleId :

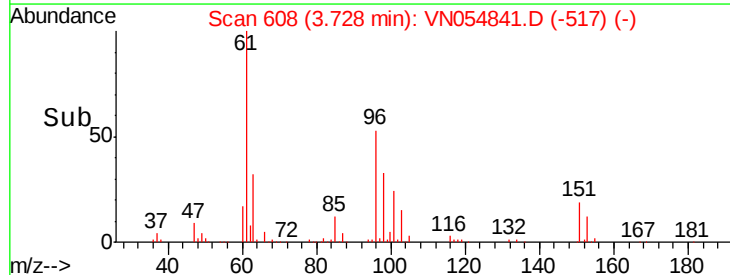
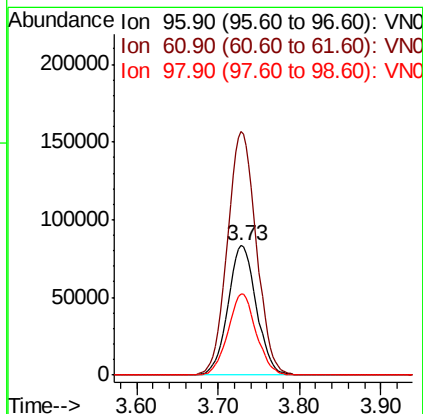
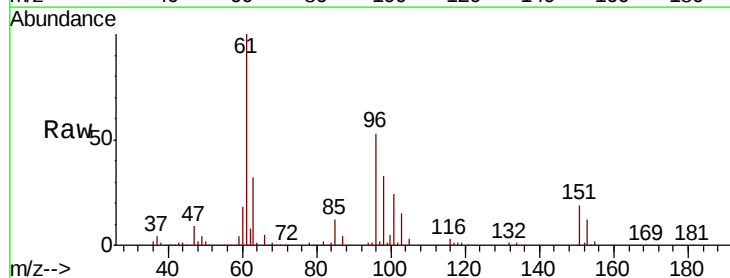
Tot Ion: 59 Resp: 105329
 Ion Ratio Lower Upper
 59 100
 57 10.9 9.0 13.6

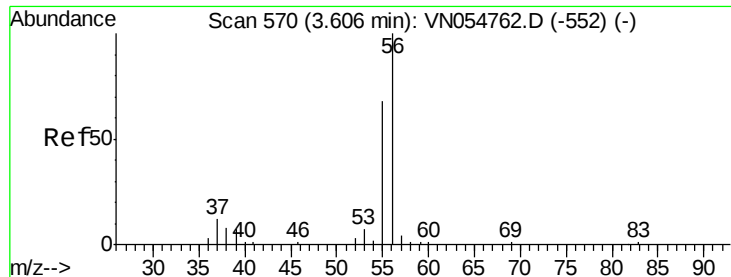


#12

1,1-Dichloroethene
 Concen: 52.319 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.01 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion: 96 Resp: 203907
 Ion Ratio Lower Upper
 96 100
 61 188.4 116.5 174.7#
 98 63.0 51.0 76.4





#13

Acrolein

Concen: 222.885 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

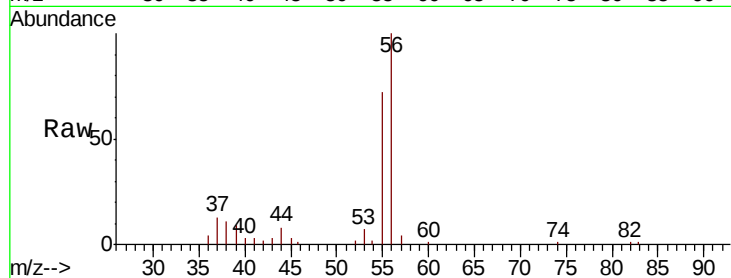
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 69387

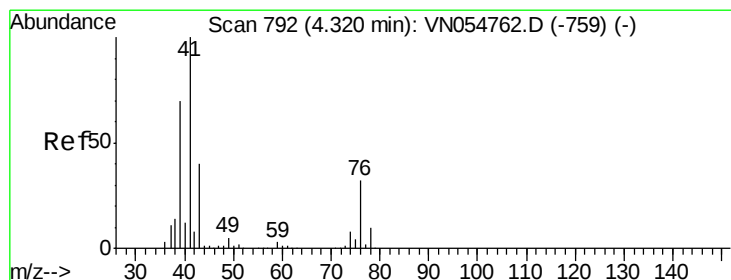
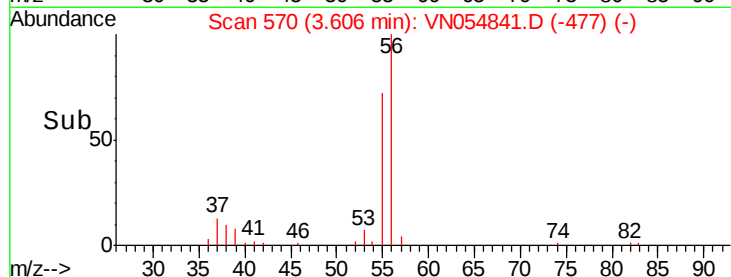
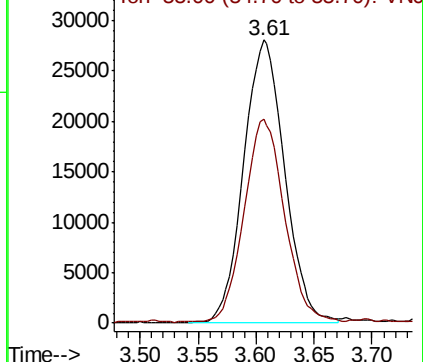
Ion Ratio Lower Upper

56 100

55 69.7 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN054841.D (-477) (-)



#14

Allyl chloride

Concen: 51.388 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.01 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

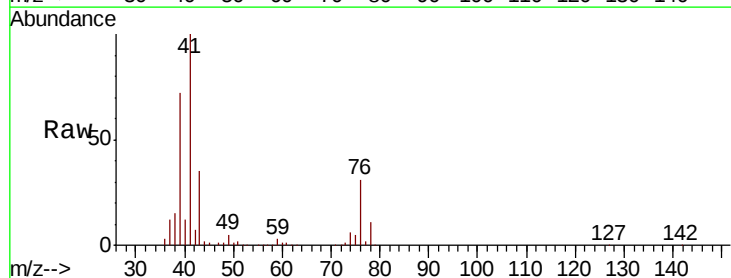
Tgt Ion: 41 Resp: 493309

Ion Ratio Lower Upper

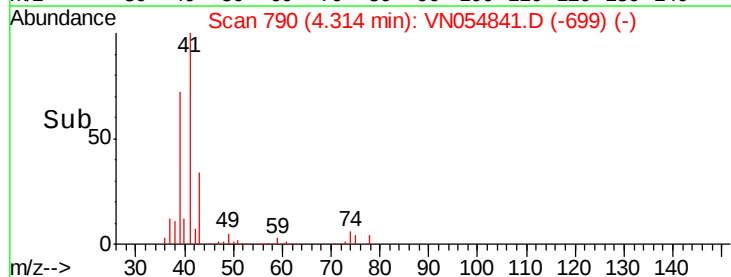
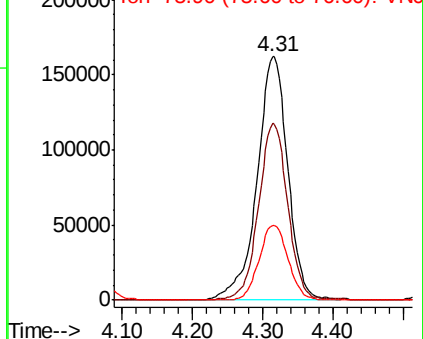
41 100

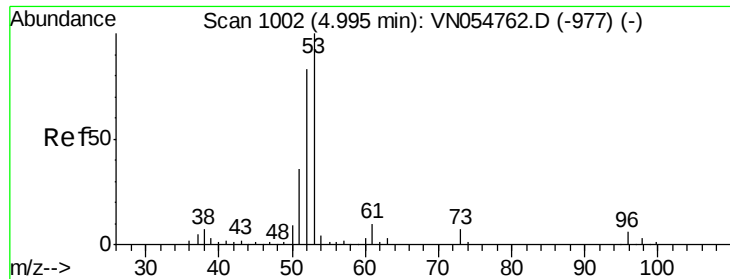
39 68.4 58.2 87.4

76 29.1 31.7 47.5#



Abundance Ion 41.00 (40.70 to 41.70): VN054841.D (-699) (-)

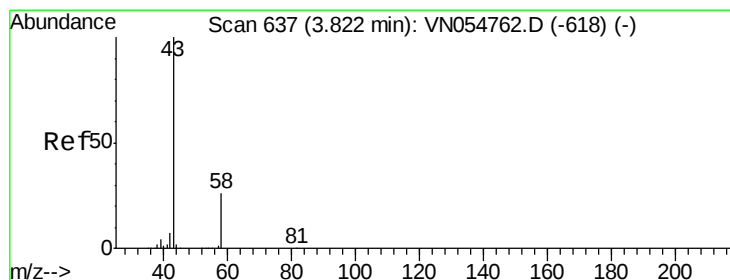
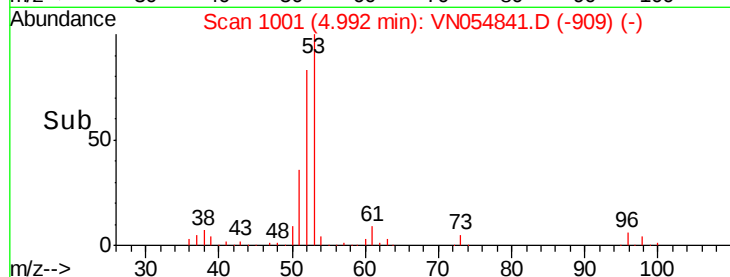
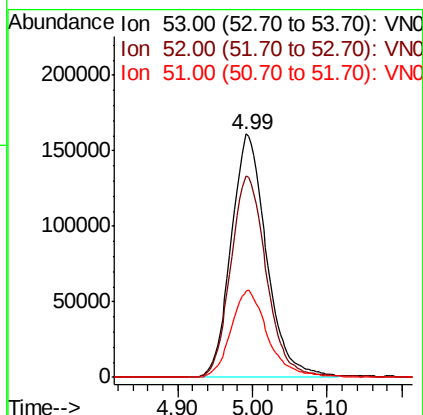
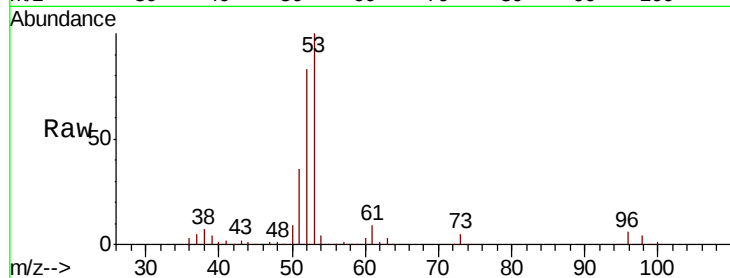




#15
 Acrylonitrile
 Concen: 273.578 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

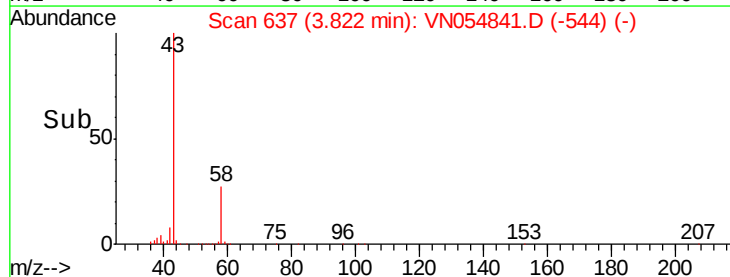
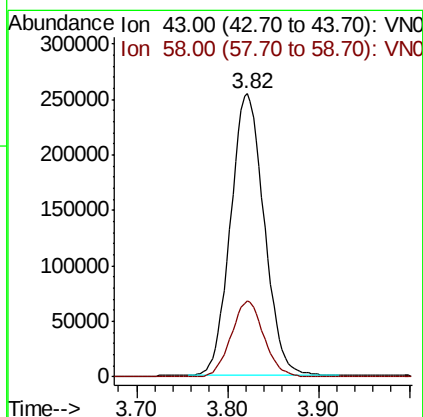
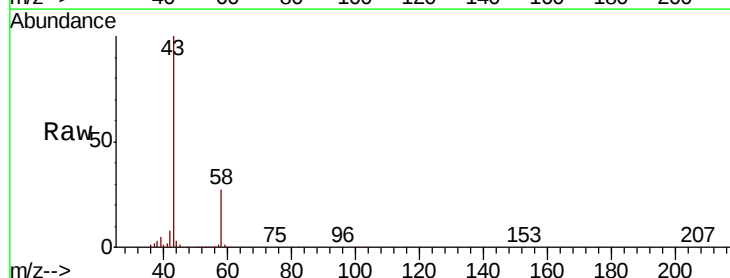
Instrument :
 MSVOA_N
 ClientSampleId :

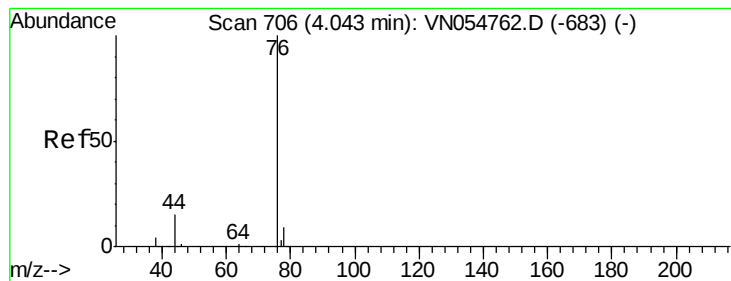
Tot Ion: 53 Resp: 529532
 Ion Ratio Lower Upper
 53 100
 52 83.1 66.4 99.6
 51 37.3 29.6 44.4



#16
 Acetone
 Concen: 407.725 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion: 43 Resp: 649842
 Ion Ratio Lower Upper
 43 100
 58 26.8 29.9 44.9#





#17

Carbon Disulfide

Concen: 50.591 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

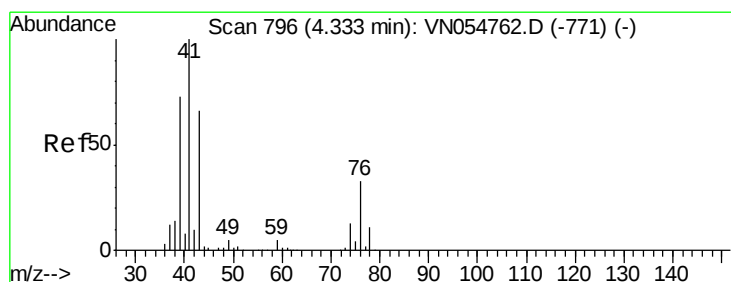
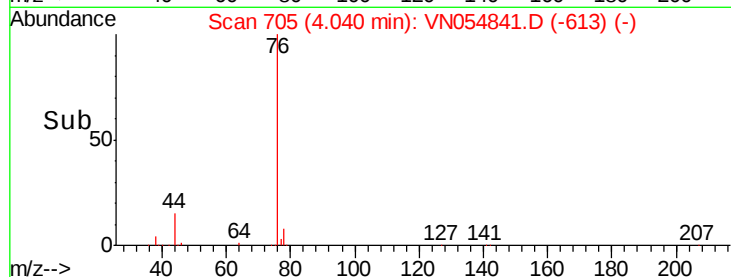
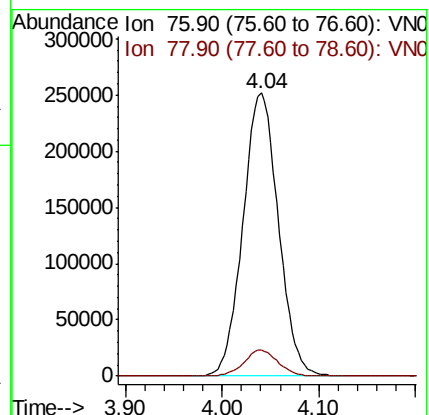
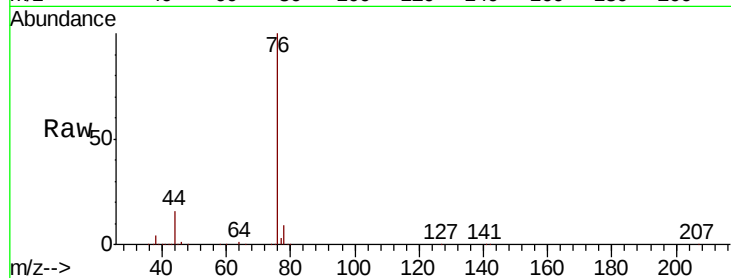
ClientSampled :

Tot Ion: 76 Resp: 639515

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3



#18

Methyl Acetate

Concen: 57.324 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054841.D

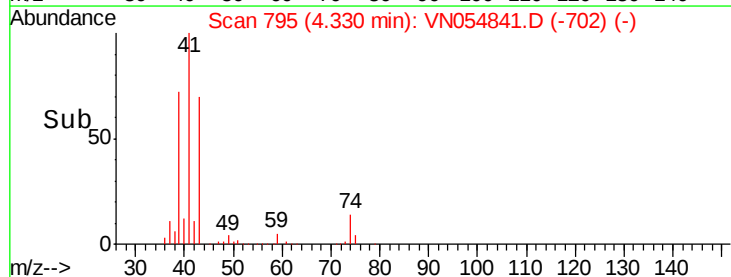
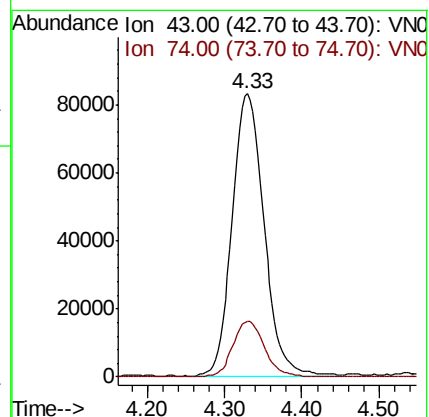
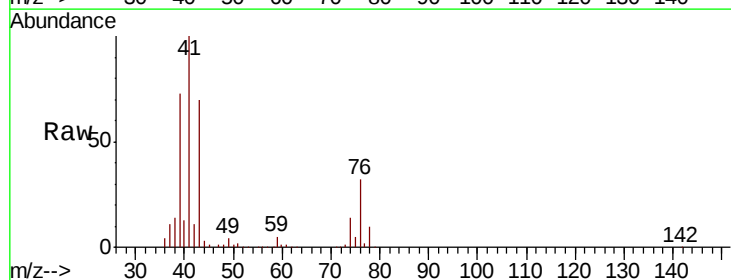
Acq: 31 Mar 2019 10:43

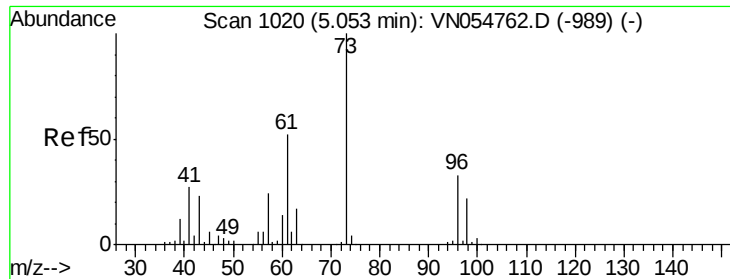
Tgt Ion: 43 Resp: 237412

Ion Ratio Lower Upper

43 100

74 19.6 20.8 31.2#



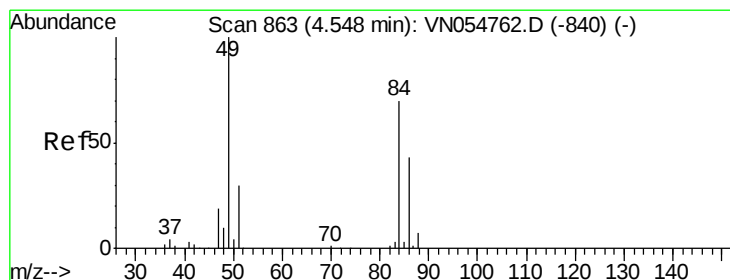
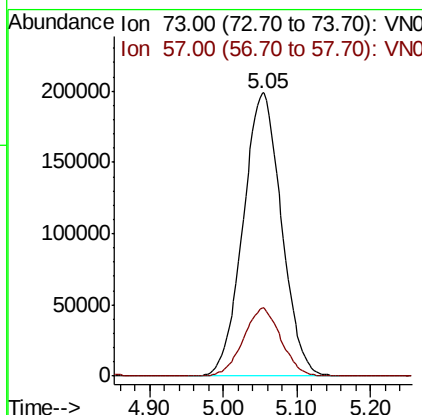
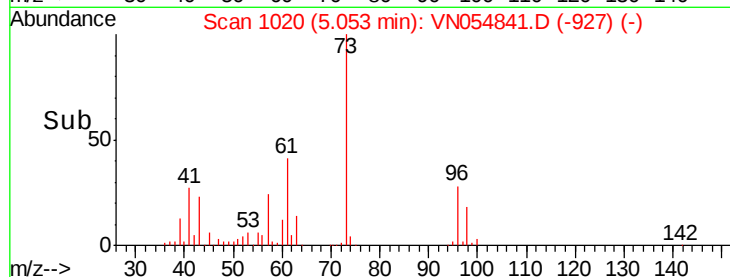
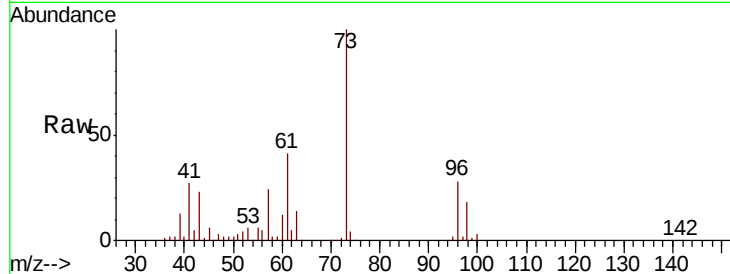


#19

Methyl tert-butyl Ether
 Concen: 52.815 ug/l
 RT: 5.05 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Instrument :
 MSVOA_N
 ClientSampled :

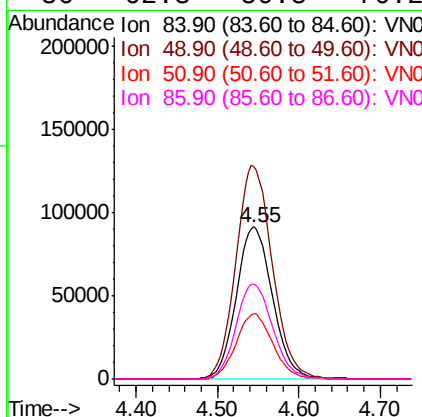
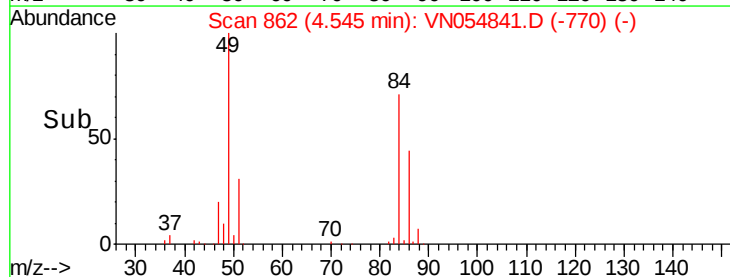
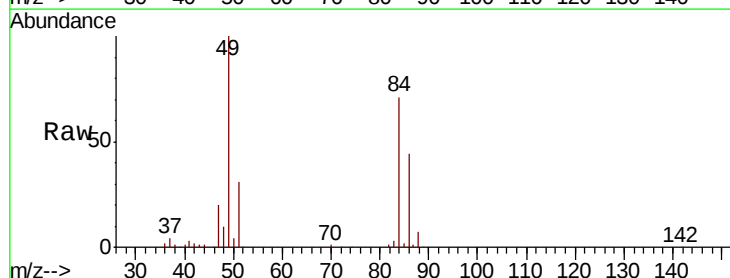
Tot Ion: 73 Resp: 720026
 Ion Ratio Lower Upper
 73 100
 57 24.3 16.8 25.2

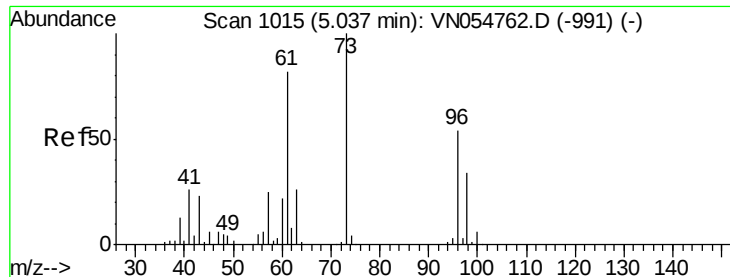


#20

Methylene Chloride
 Concen: 50.008 ug/l
 RT: 4.55 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion: 84 Resp: 281149
 Ion Ratio Lower Upper
 84 100
 49 140.1 89.7 134.5#
 51 43.2 28.2 42.4#
 86 62.3 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 51.509 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

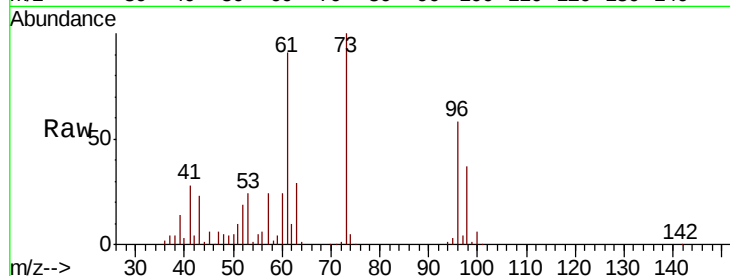
Tot Ion: 96 Resp: 263682

Ion Ratio Lower Upper

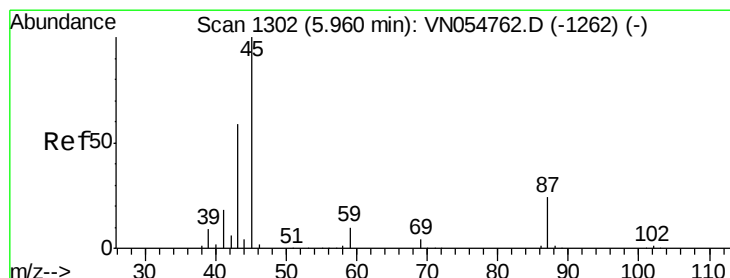
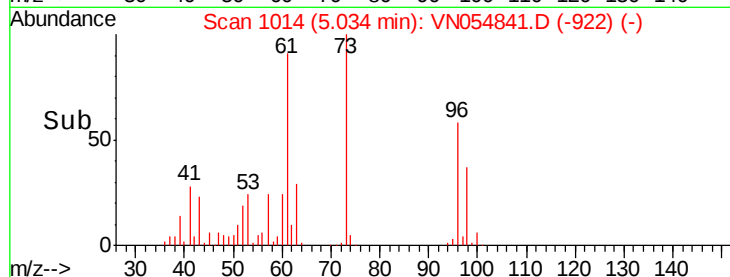
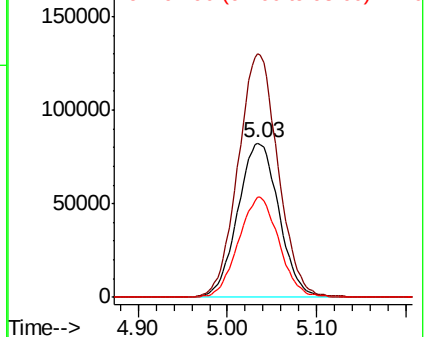
96 100

61 157.8 102.8 154.2#

98 64.6 50.0 75.0



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



#22

Diisopropyl ether

Concen: 53.634 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Tgt Ion: 45 Resp: 1018324

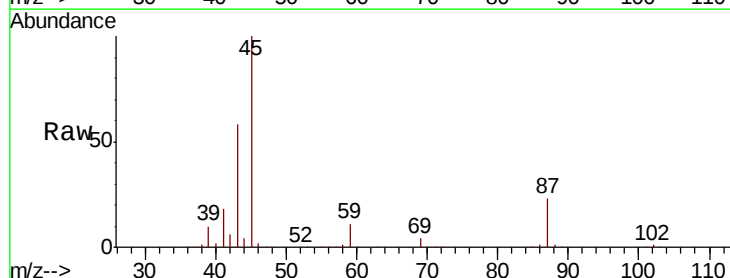
Ion Ratio Lower Upper

45 100

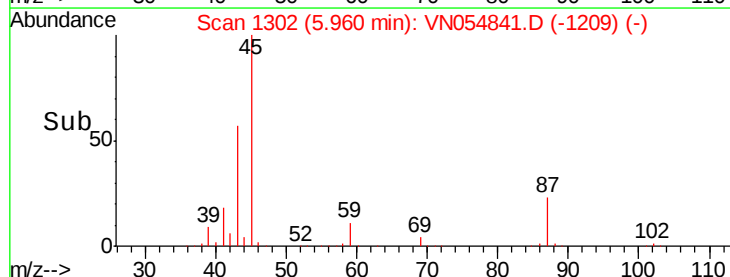
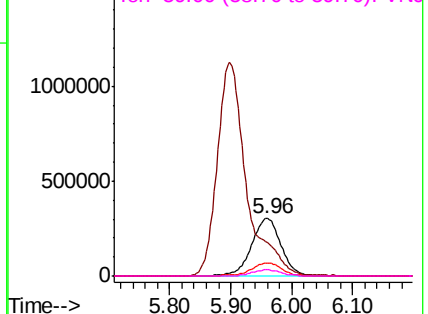
43 57.2 48.2 72.2

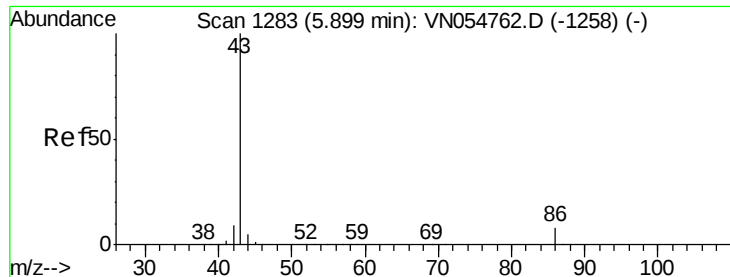
87 23.0 24.9 37.3#

59 10.6 9.5 14.3



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





#23

Vinyl Acetate

Concen: 283.383 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

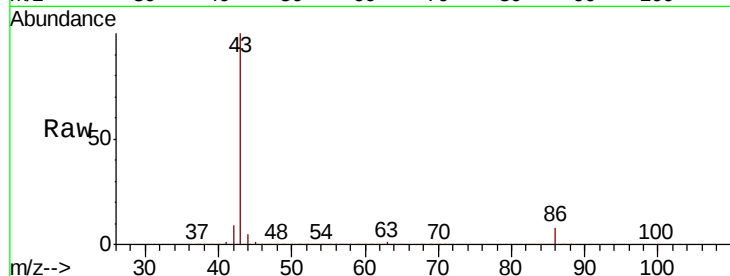
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3744314

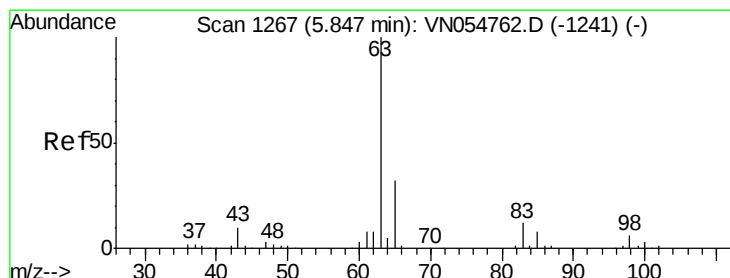
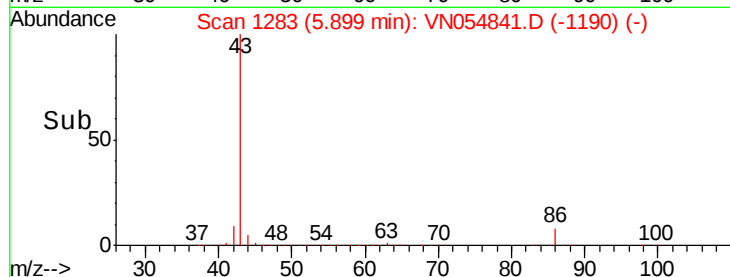
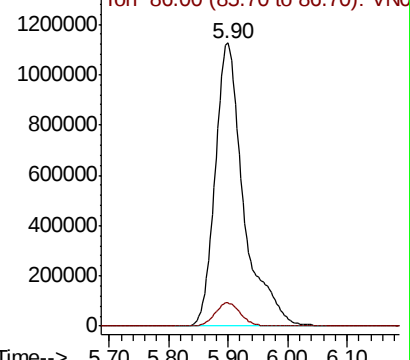
Ion Ratio Lower Upper

43 100

86 8.2 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN054841.D (-1190) (-)



#24

1,1-Dichloroethane

Concen: 51.393 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

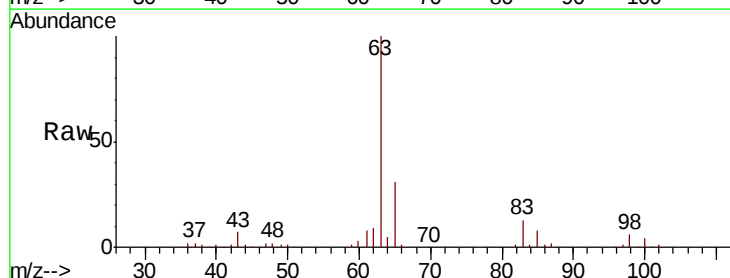
Tgt Ion: 63 Resp: 520520

Ion Ratio Lower Upper

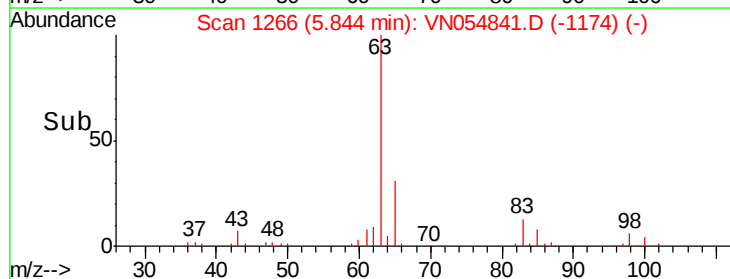
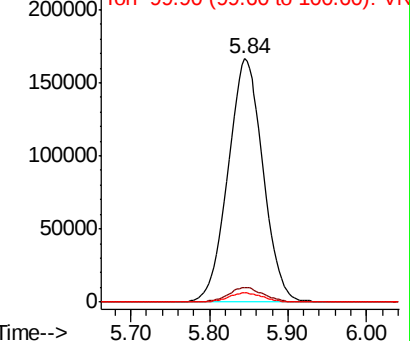
63 100

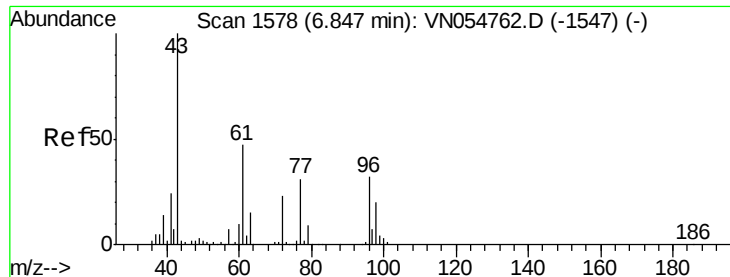
98 5.9 3.5 10.5

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN054841.D (-1174) (-)

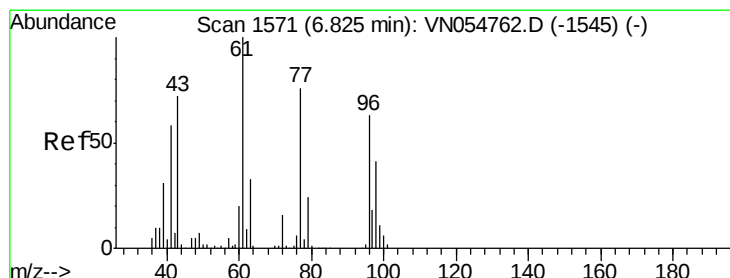
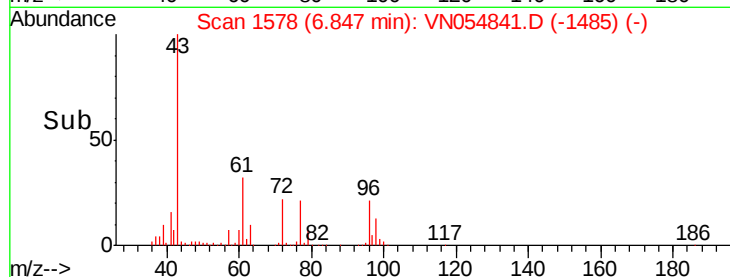
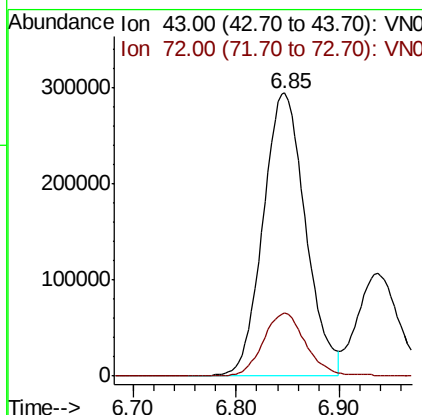
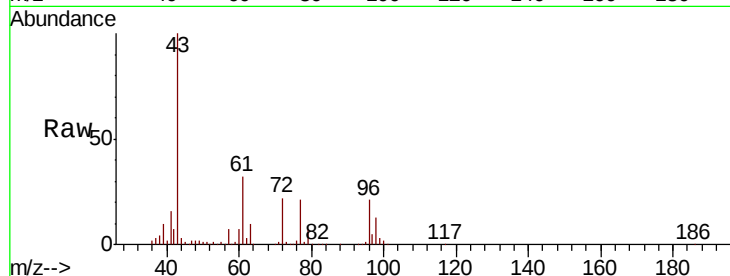




#25
2-Butanone
Concen: 357.029 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

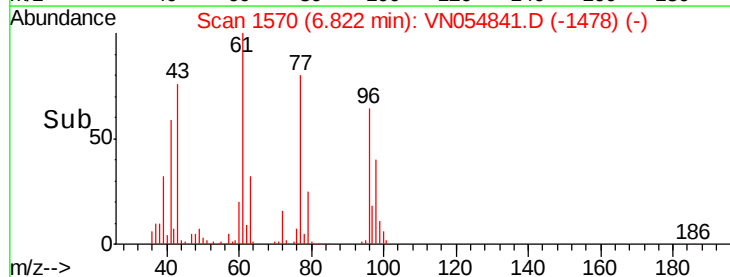
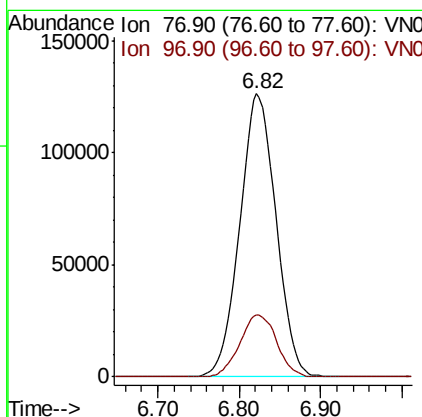
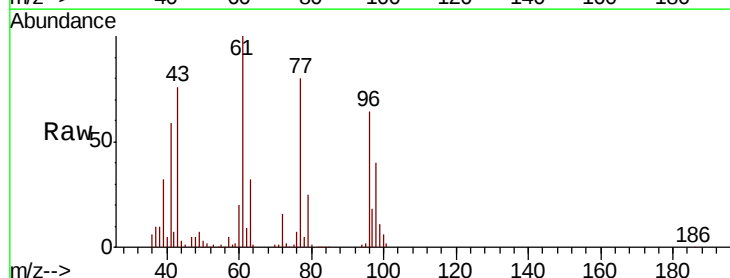
Instrument :
MSVOA_N
ClientSampleId :

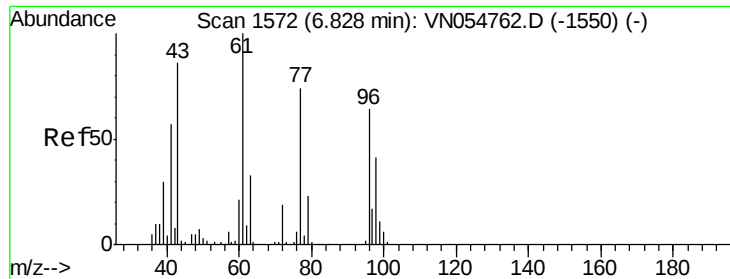
Tot Ion: 43 Resp: 841152
Ion Ratio Lower Upper
43 100
72 22.2 23.0 34.6#



#26
2,2-Dichloropropane
Concen: 54.629 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 77 Resp: 387797
Ion Ratio Lower Upper
77 100
97 22.4 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 52.594 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampleId :

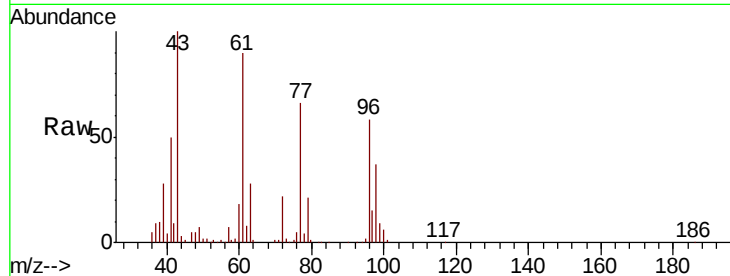
Tot Ion: 96 Resp: 304150

Ion Ratio Lower Upper

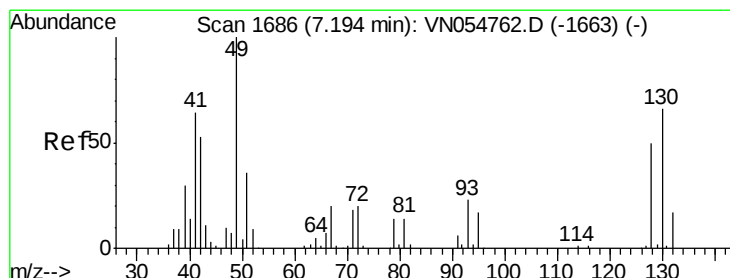
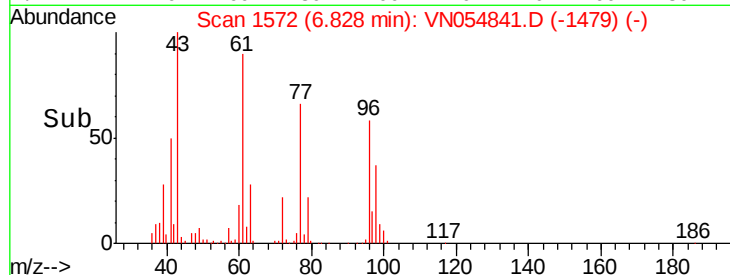
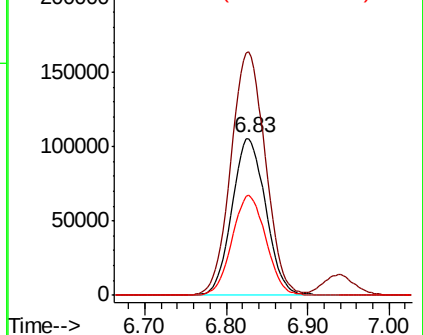
96 100

61 158.2 0.0 273.0

98 63.7 0.0 130.6



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



#28

Bromochloromethane

Concen: 53.810 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

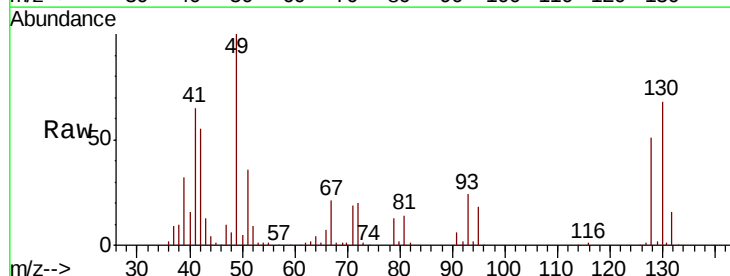
Tgt Ion: 49 Resp: 272520

Ion Ratio Lower Upper

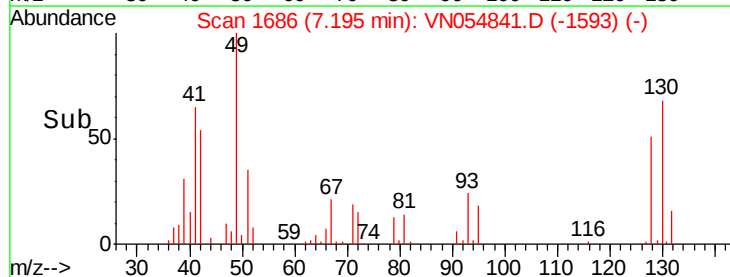
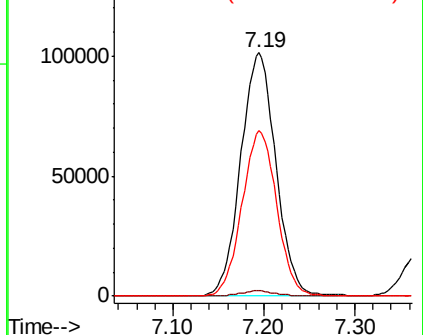
49 100

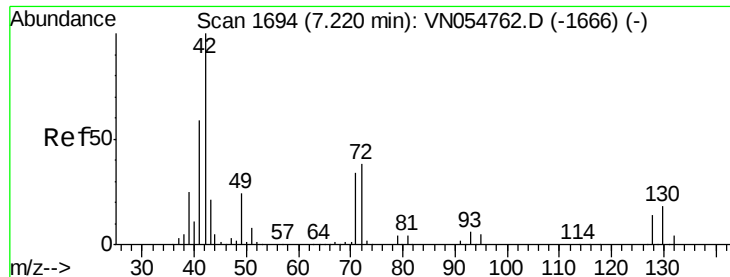
129 2.1 0.0 4.6

130 66.9 76.7 115.1#



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

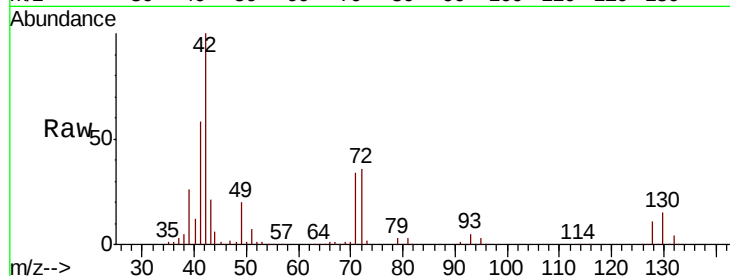




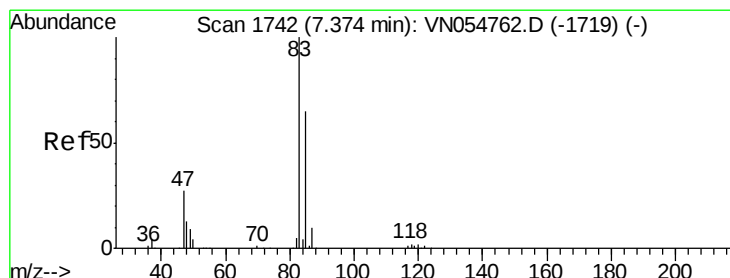
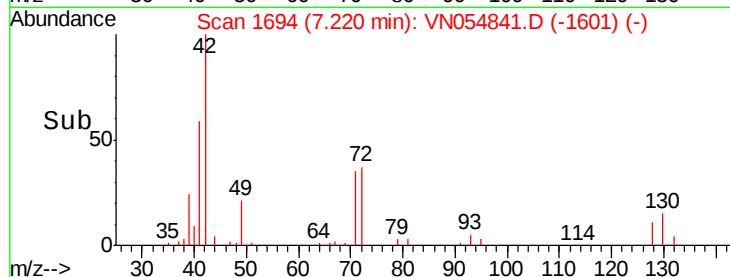
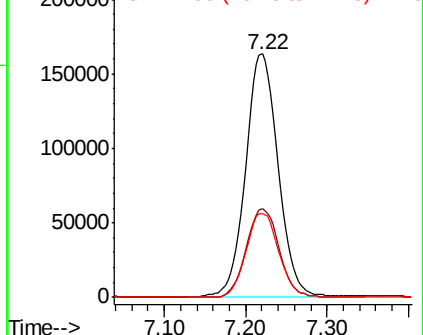
#29
Tetrahydrofuran
Concen: 272.253 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 445498
Ion Ratio Lower Upper
42 100
72 36.7 37.8 56.6#
71 35.1 36.2 54.2#

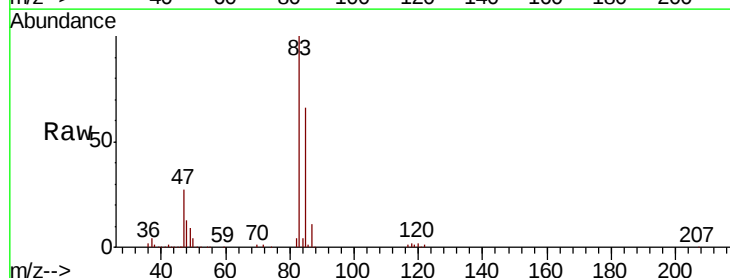


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

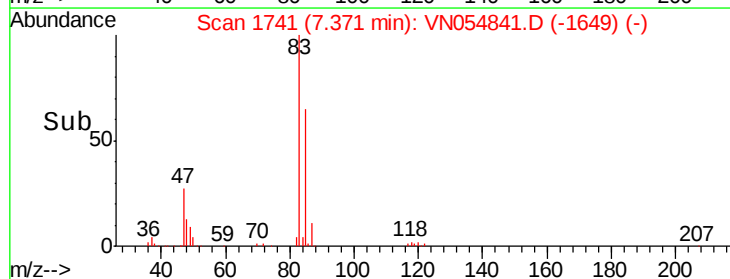
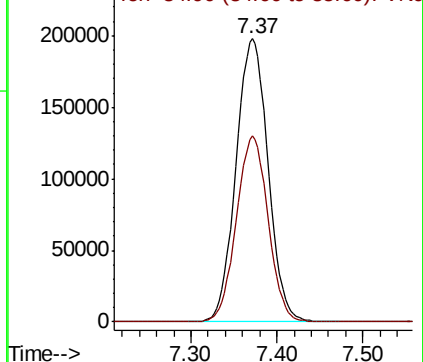


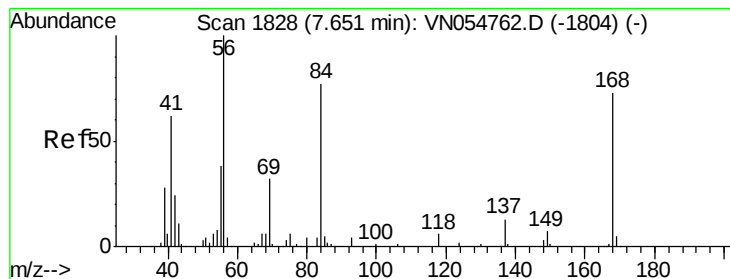
#30
Chloroform
Concen: 53.127 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 83 Resp: 513083
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: 53.884 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampled :

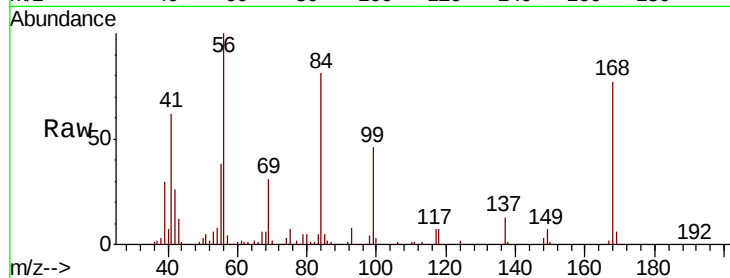
Tot Ion: 56 Resp: 495796

Ion Ratio Lower Upper

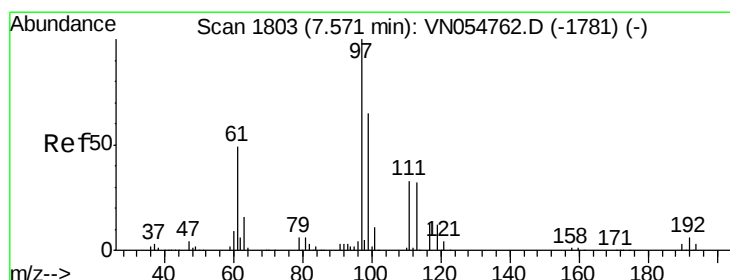
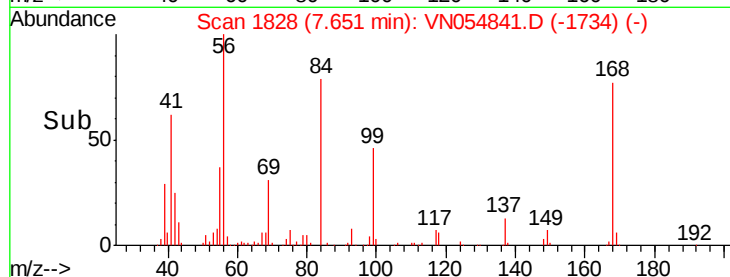
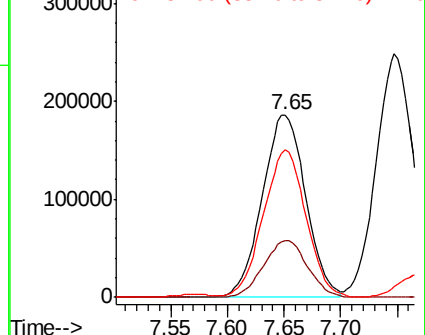
56 100

69 31.2 27.8 41.6

84 79.3 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: 53.411 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

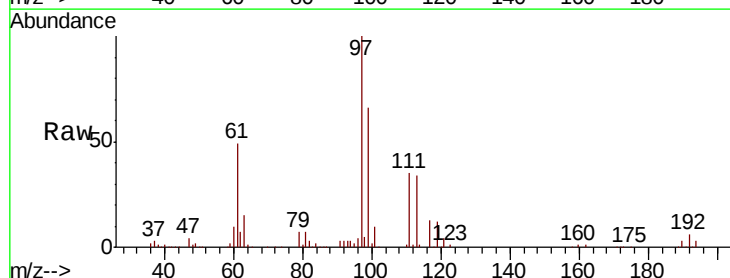
Tgt Ion: 97 Resp: 427471

Ion Ratio Lower Upper

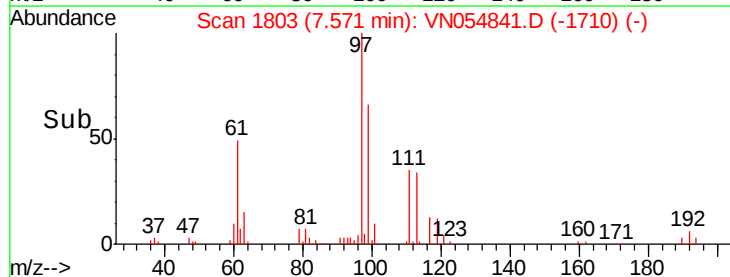
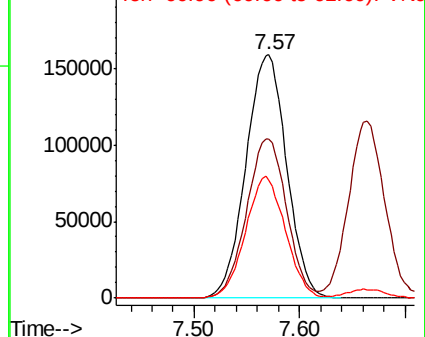
97 100

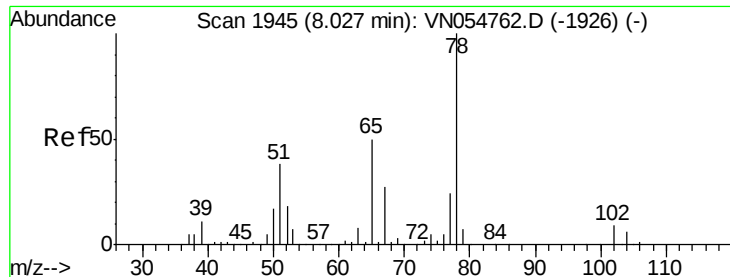
99 64.7 51.5 77.3

61 48.8 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

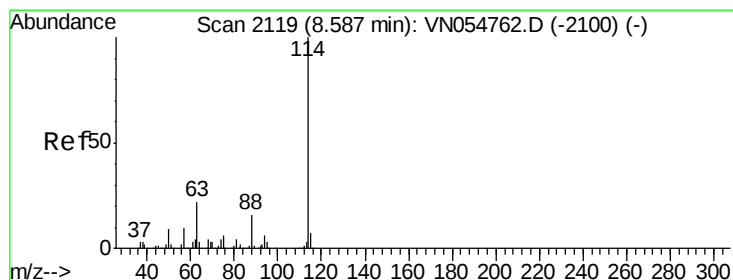
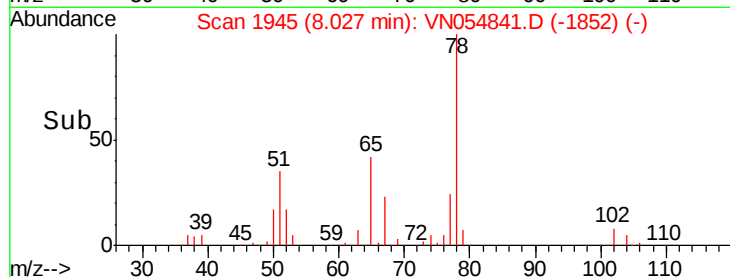
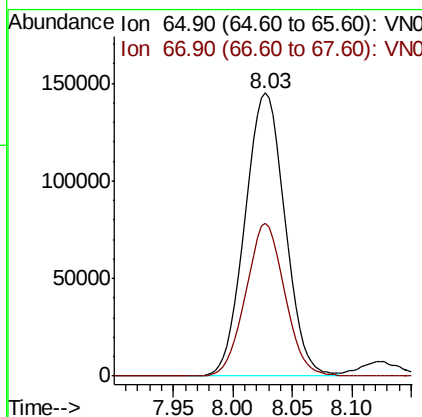
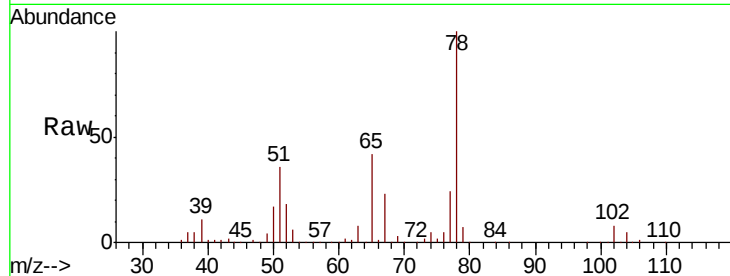




#33
 1,2-Dichloroethane-d4
 Concen: 50.706 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

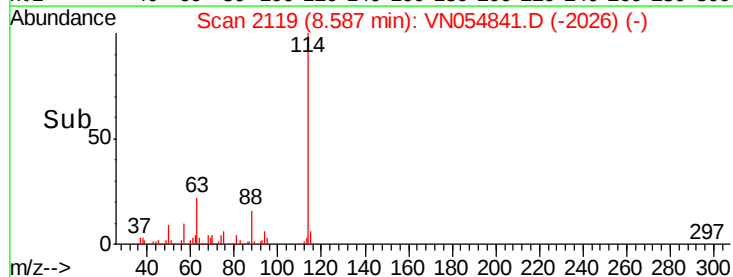
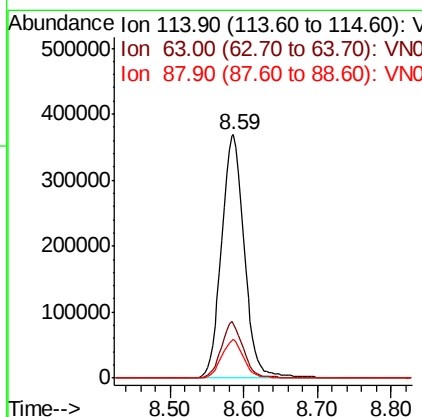
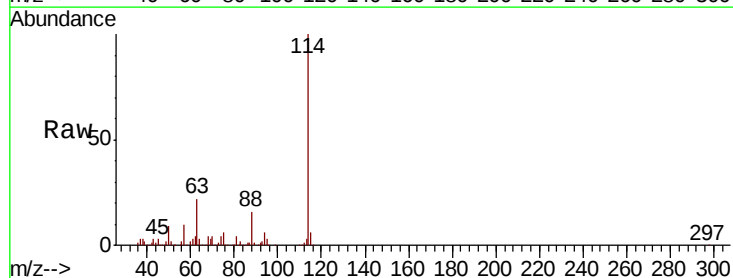
Instrument :
 MSVOA_N
 ClientSampled :

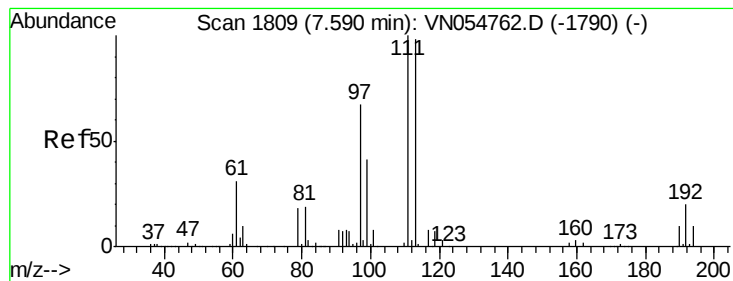
Tot Ion: 65 Resp: 338902
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion: 114 Resp: 792312
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.407 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampled :

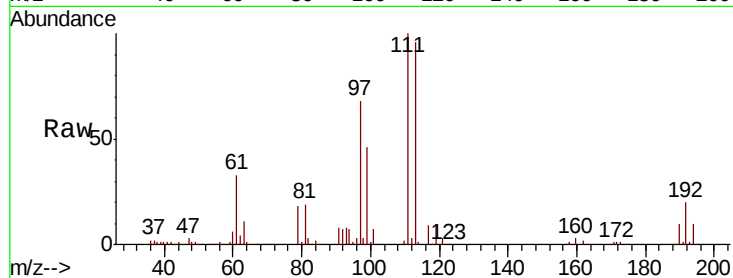
Tot Ion:113 Resp: 266263

Ion Ratio Lower Upper

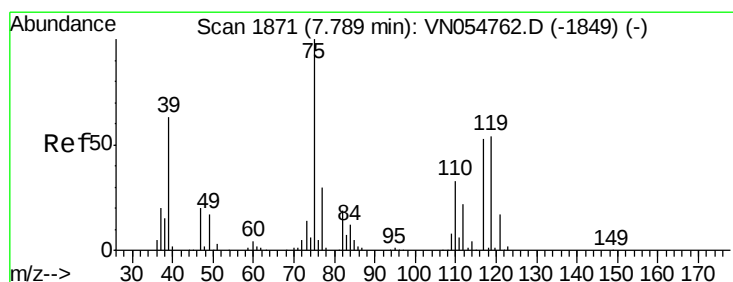
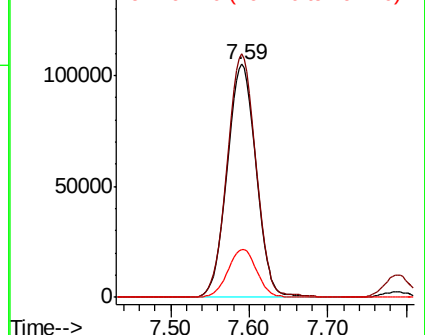
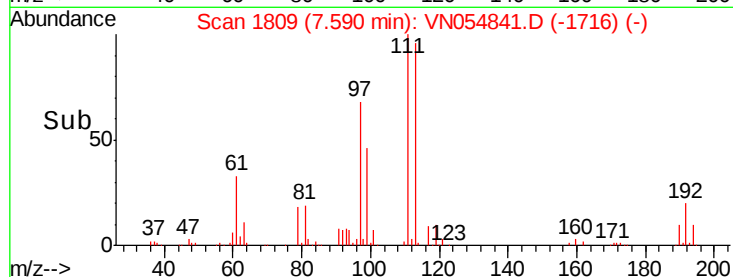
113 100

111 103.4 82.2 123.4

192 20.5 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: 53.294 ug/l

RT: 7.79 min Scan# 1871

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

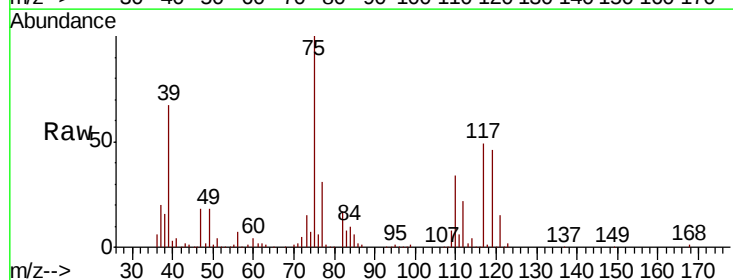
Tgt Ion: 75 Resp: 393462

Ion Ratio Lower Upper

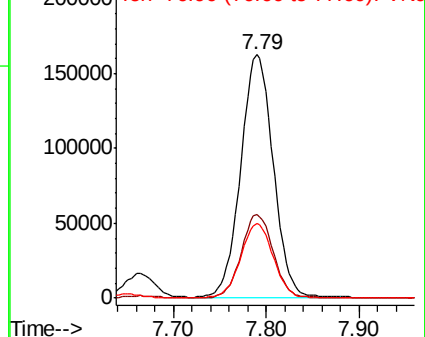
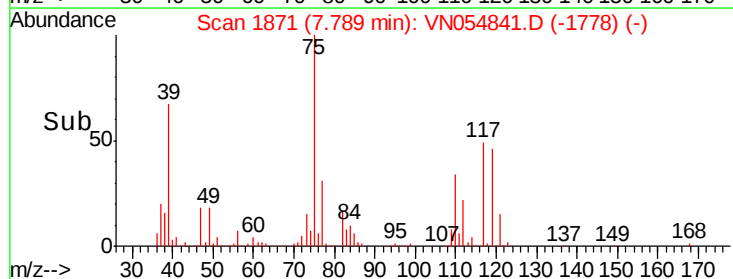
75 100

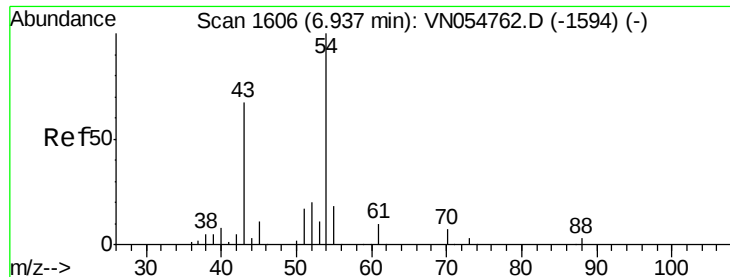
110 34.2 19.1 57.5

77 31.1 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

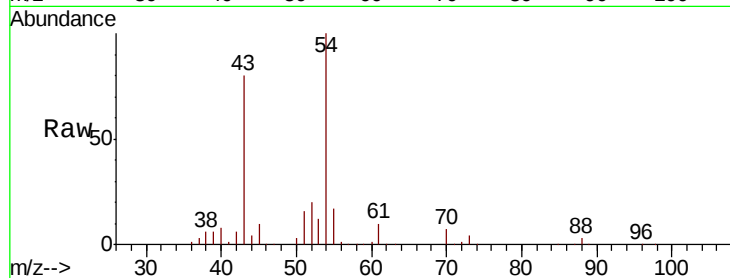




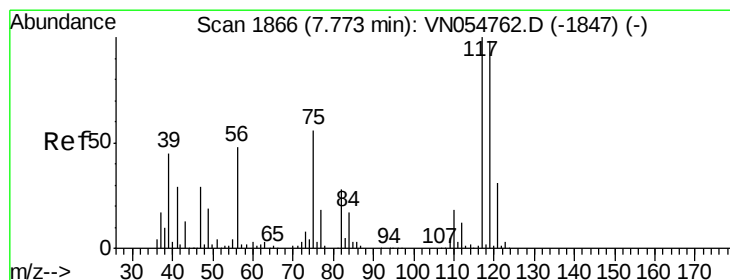
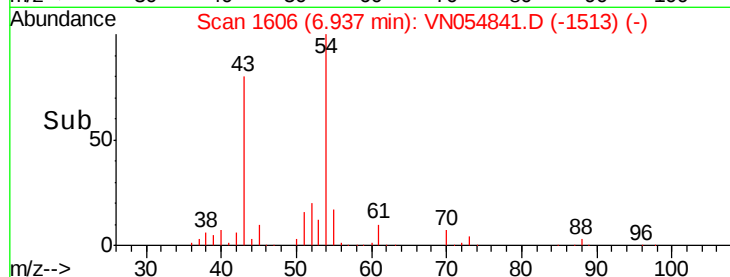
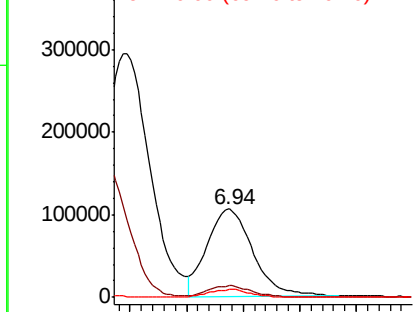
#37
Ethyl Acetate
Concen: 54.728 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 296295
Ion Ratio Lower Upper
43 100
61 12.3 11.8 17.6
70 8.2 8.4 12.6#

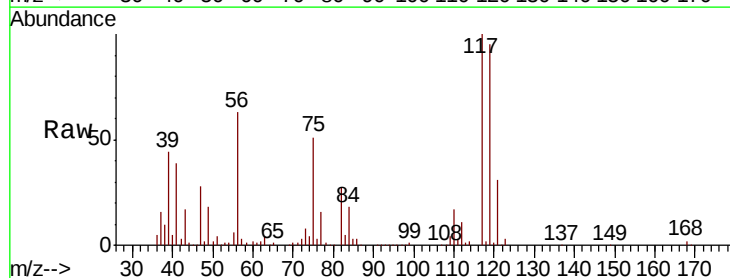


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

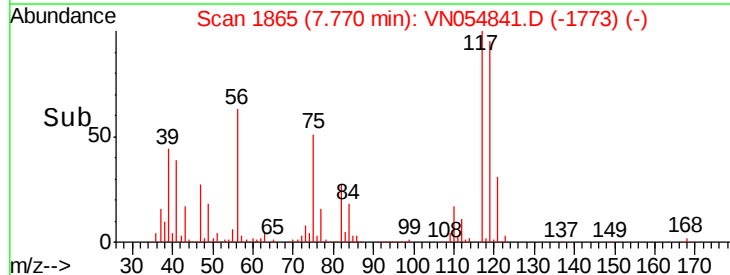
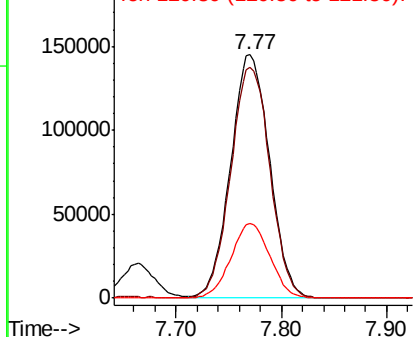


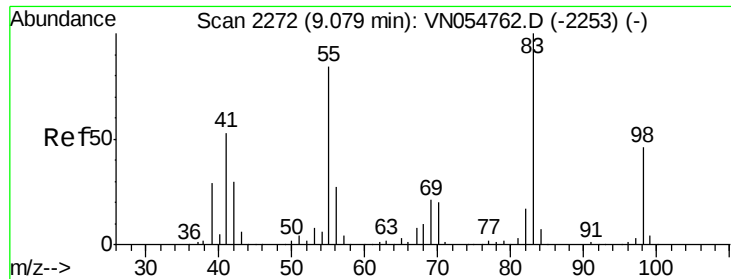
#38
Carbon Tetrachloride
Concen: 51.848 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 117 Resp: 371784
Ion Ratio Lower Upper
117 100
119 95.0 76.3 114.5
121 30.6 24.6 36.8



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

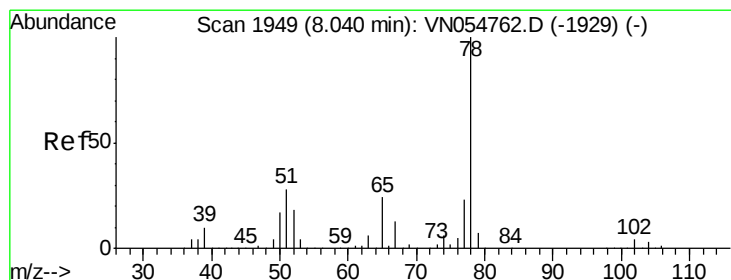
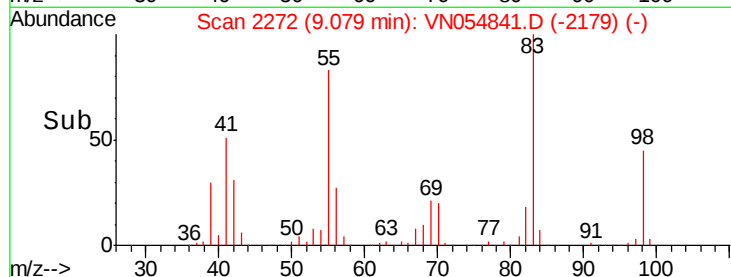
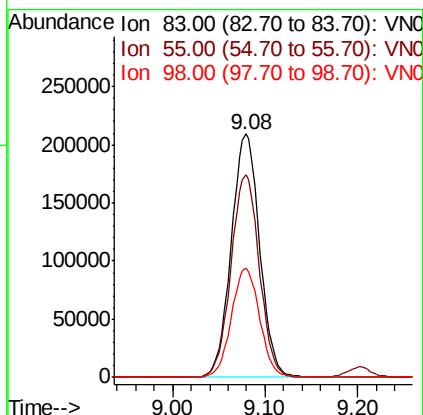
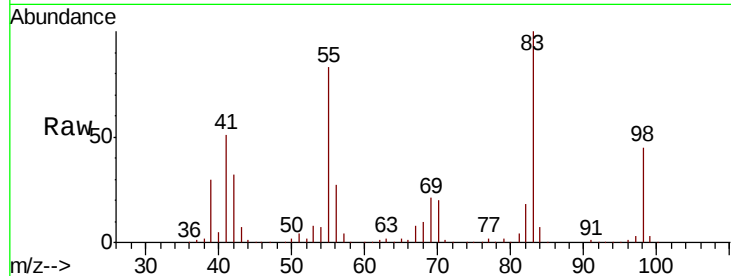




#39
Methvlcvclohexane
Concen: 54.762 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

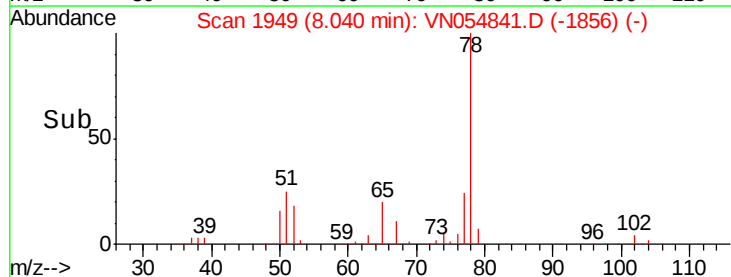
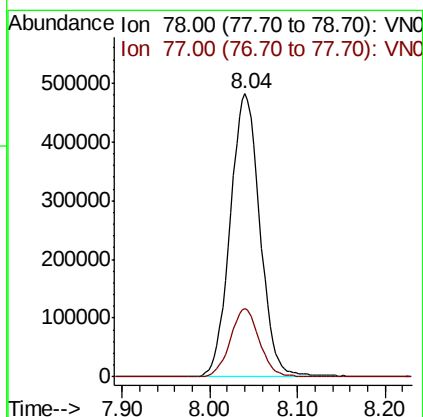
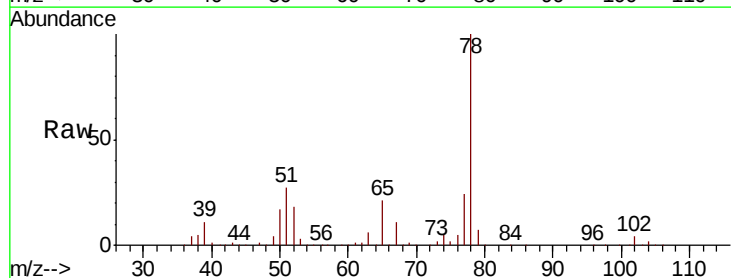
Instrument :
MSVOA_N
ClientSampled :

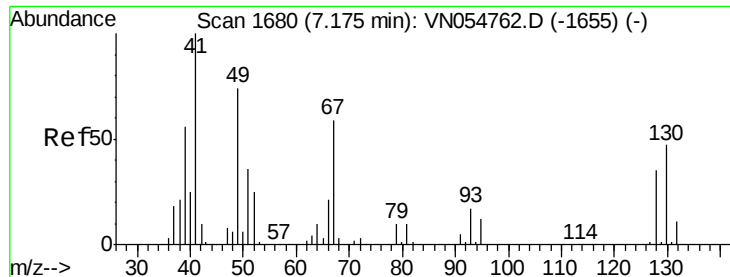
Tot Ion: 83 Resp: 444482
Ion Ratio Lower Upper
83 100
55 83.1 56.6 84.8
98 44.8 38.4 57.6



#40
Benzene
Concen: 53.843 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 78 Resp: 1137432
Ion Ratio Lower Upper
78 100
77 24.2 19.1 28.7

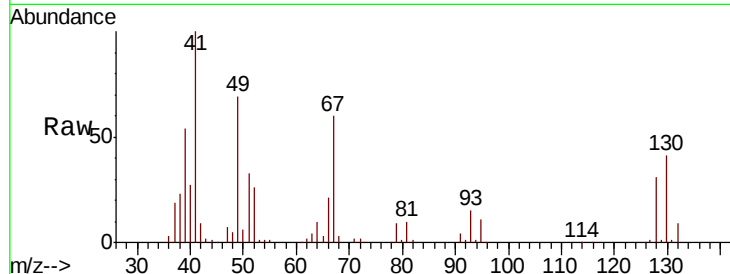




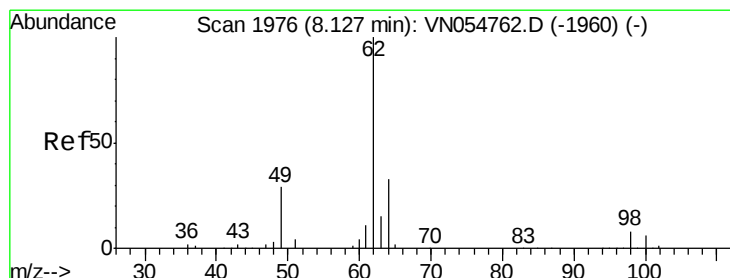
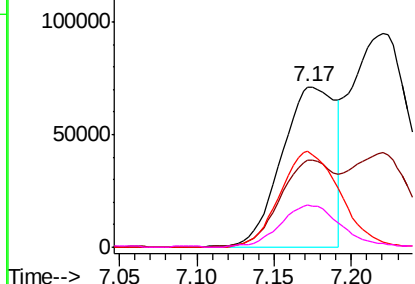
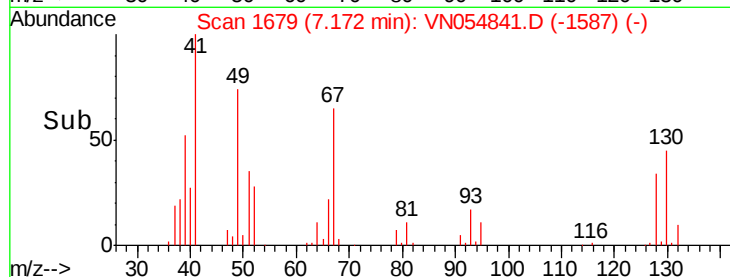
#41
Methacrylonitrile
Concen: 56.716 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 172493
Ion Ratio Lower Upper
41 100
39 53.6 46.8 70.2
67 67.2 67.0 100.4
52 28.6 26.5 39.7

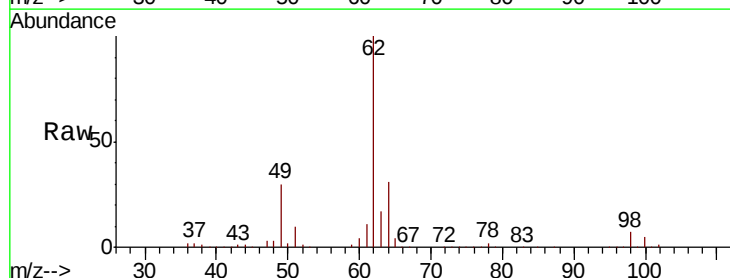


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

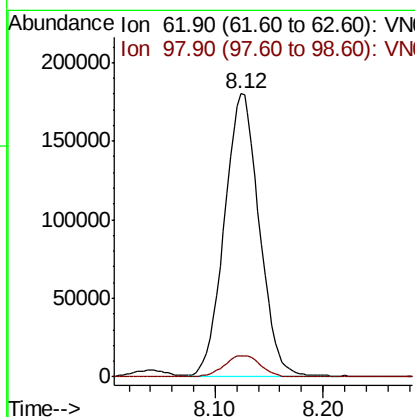
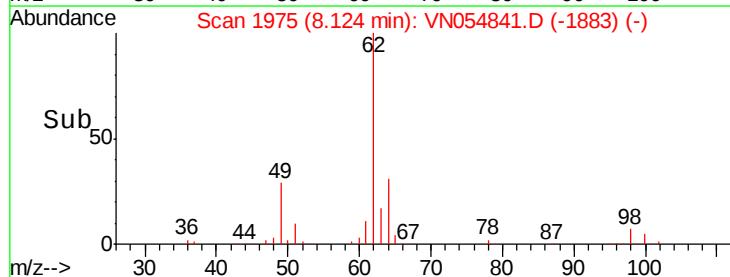


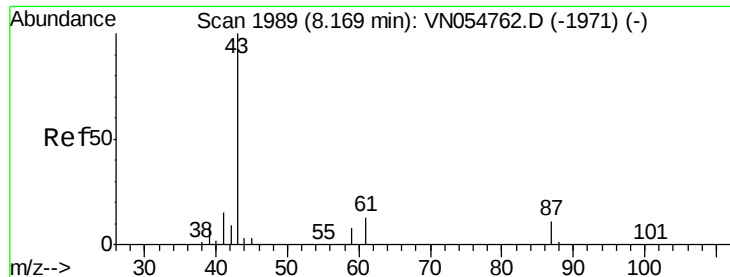
#42
1,2-Dichloroethane
Concen: 53.574 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 62 Resp: 404101
Ion Ratio Lower Upper
62 100
98 8.0 0.0 18.4



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





#43

Isopropyl Acetate

Concen: 58.164 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

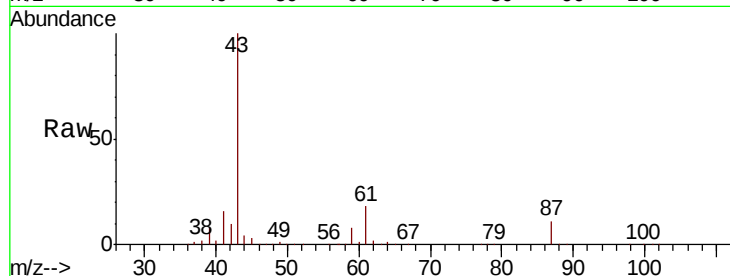
Tot Ion: 43 Resp: 511664

Ion Ratio Lower Upper

43 100

61 17.8 15.8 23.8

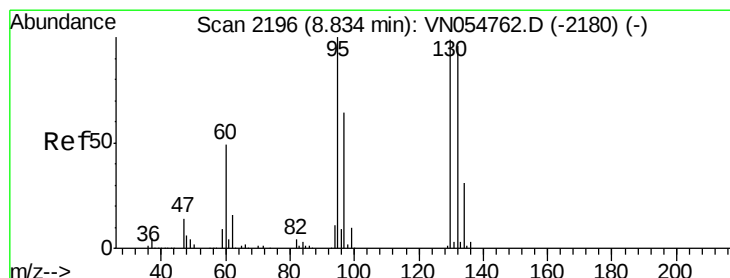
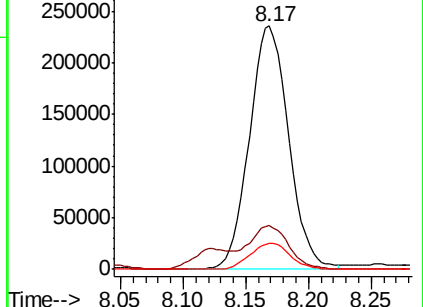
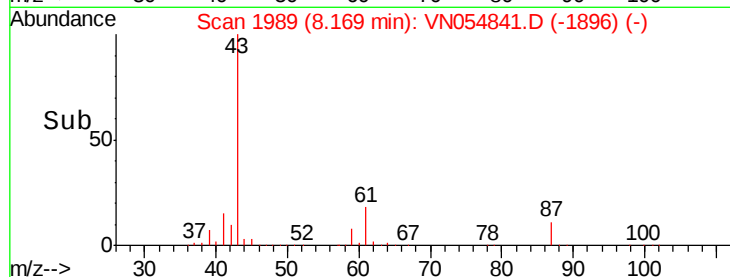
87 10.9 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054841.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN054841.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN054841.D (-1896) (-)



#44

Trichloroethene

Concen: 54.142 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054841.D

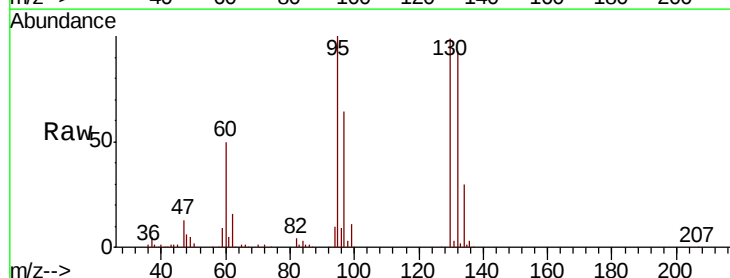
Acq: 31 Mar 2019 10:43

Tgt Ion:130 Resp: 296903

Ion Ratio Lower Upper

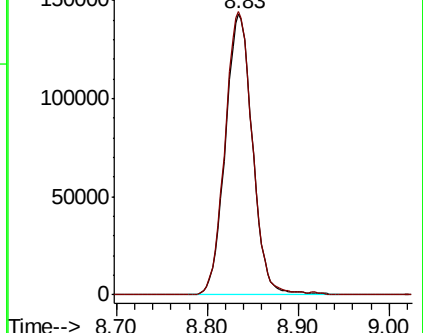
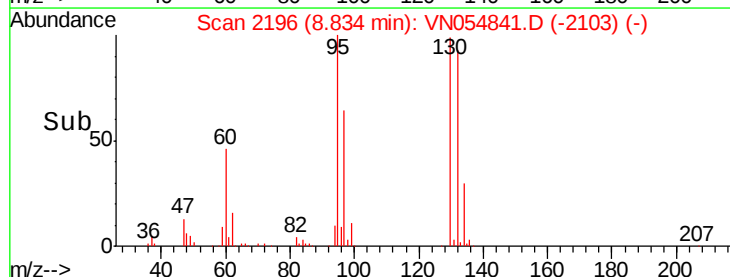
130 100

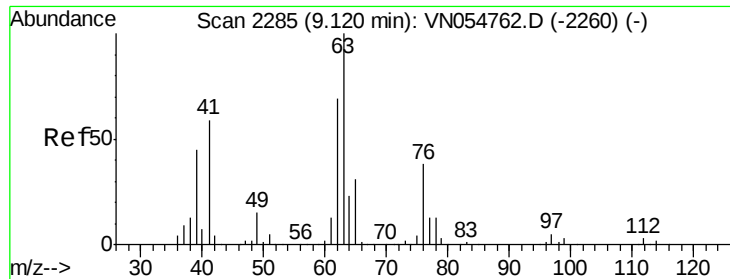
95 100.6 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054841.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN054841.D (-2103) (-)





#45

1,2-Dichloropropane

Concen: 53.236 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

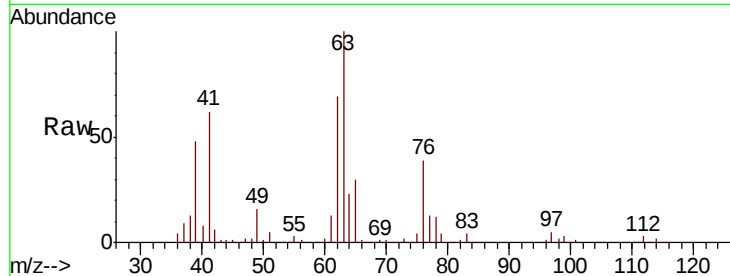
ClientSampleId :

Tot Ion: 63 Resp: 320670

Ion Ratio Lower Upper

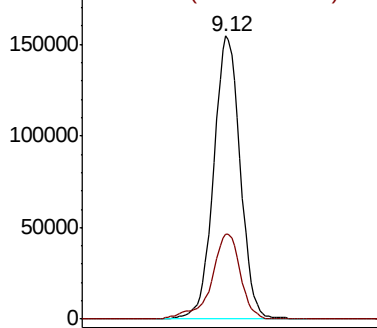
63 100

65 30.1 25.0 37.6

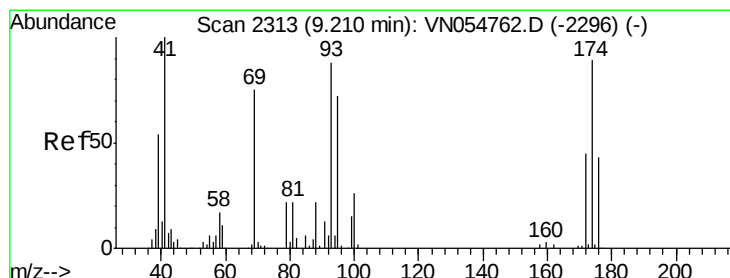
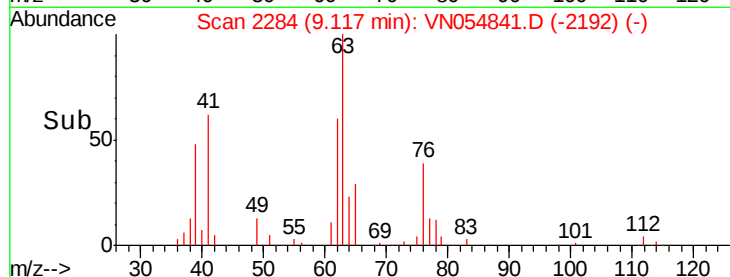


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



Time-->



#46

Dibromomethane

Concen: 54.641 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

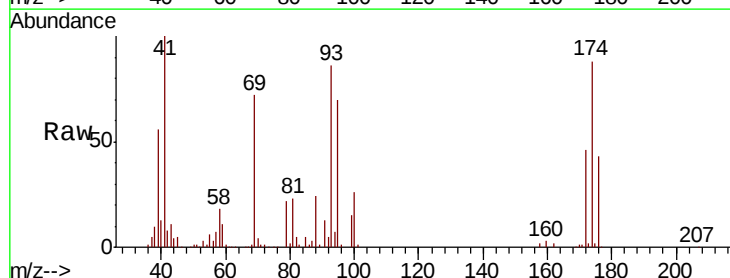
Tgt Ion: 93 Resp: 185153

Ion Ratio Lower Upper

93 100

95 82.7 66.7 100.1

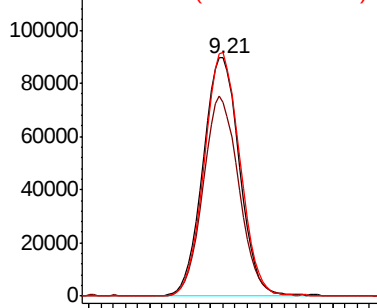
174 100.1 98.5 147.7



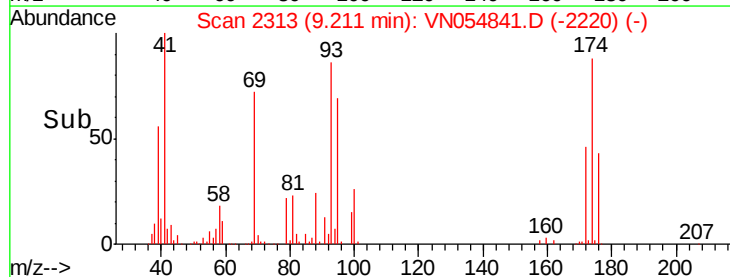
Abundance Ion 92.80 (92.50 to 93.50): VN0

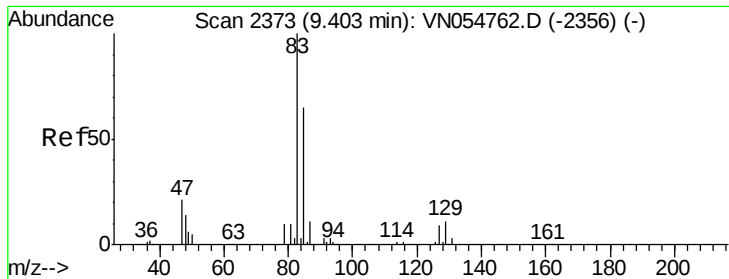
Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V



Time-->





#47

Bromodichloromethane

Concen: 56.220 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampleId :

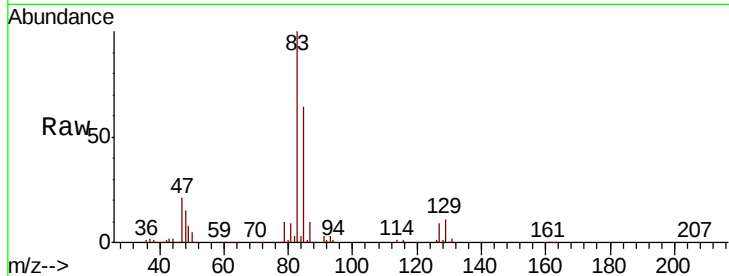
Tot Ion: 83 Resp: 395917

Ion Ratio Lower Upper

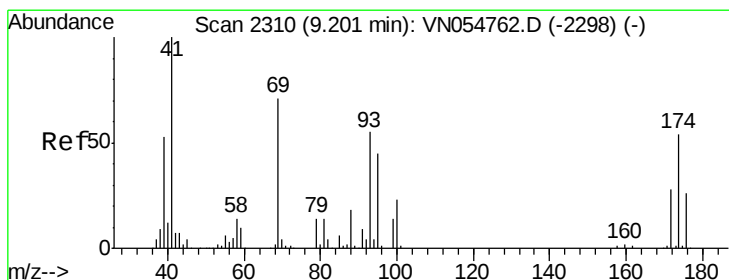
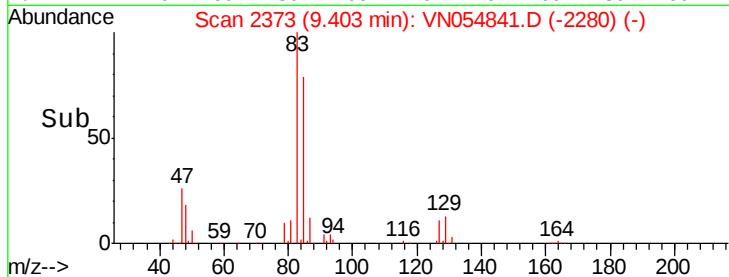
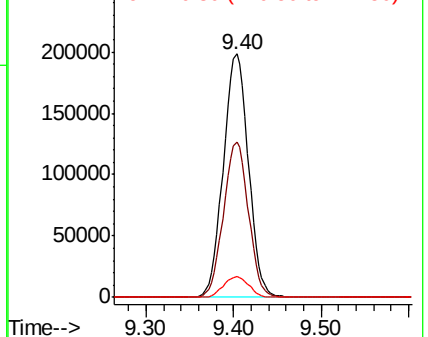
83 100

85 64.0 52.8 79.2

127 8.5 7.4 11.2



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



#48

Methyl methacrylate

Concen: 54.650 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

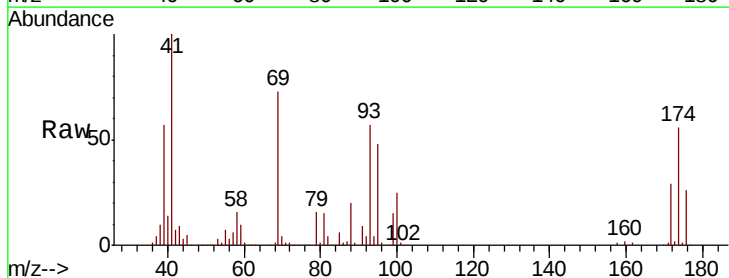
Tgt Ion: 41 Resp: 260604

Ion Ratio Lower Upper

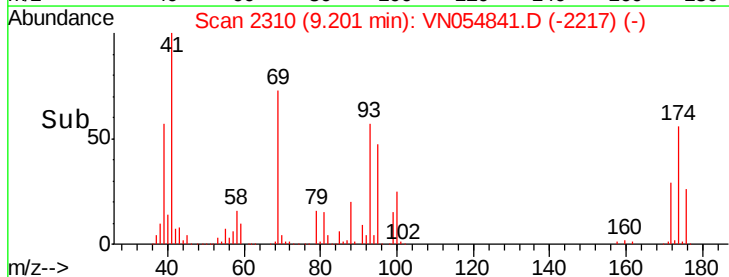
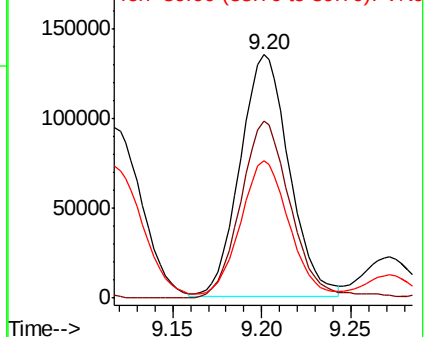
41 100

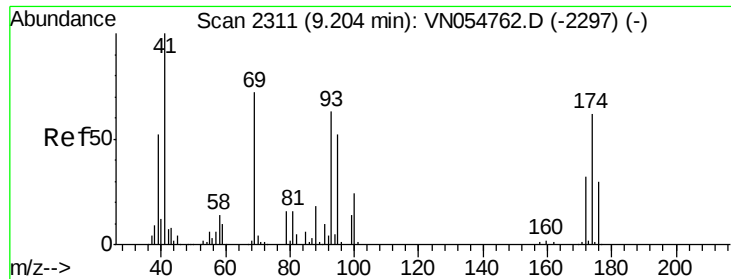
69 74.7 72.6 108.8

39 56.2 47.5 71.3



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

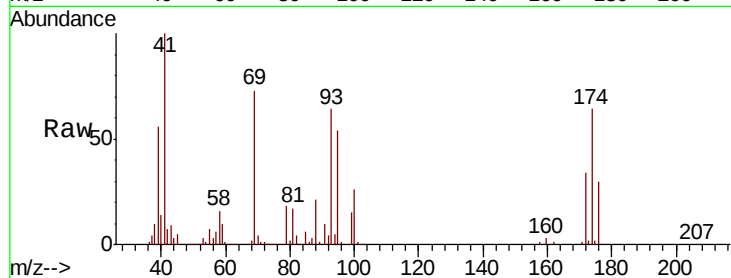




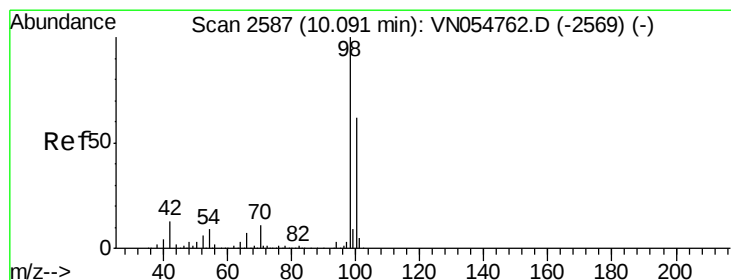
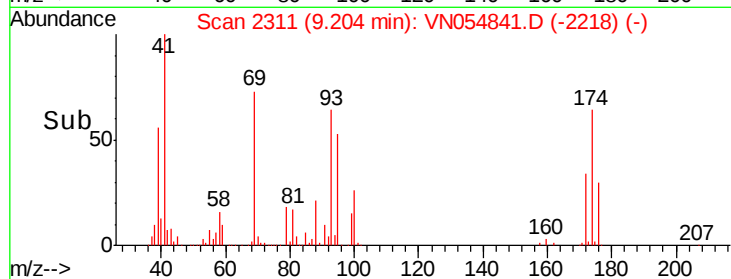
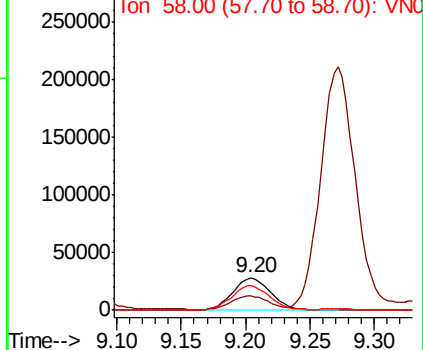
#49
1,4-Dioxane
Concen: 1231.986 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 58292
Ion Ratio Lower Upper
88 100
43 41.1 24.1 36.1#
58 76.6 50.8 76.2#

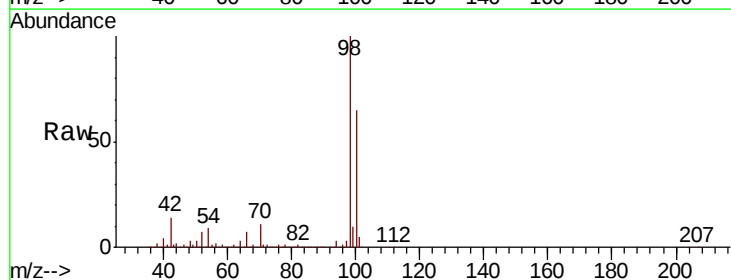


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

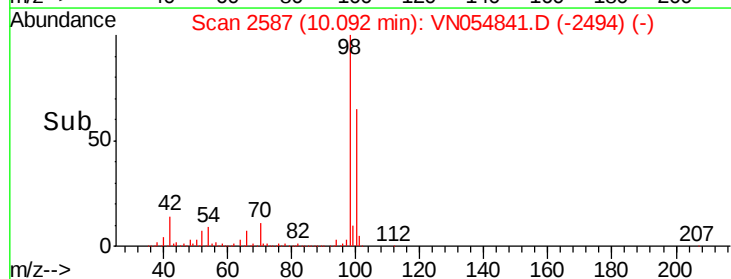
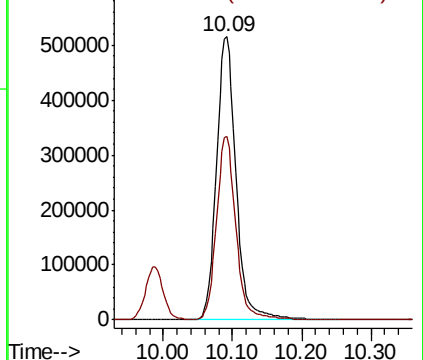


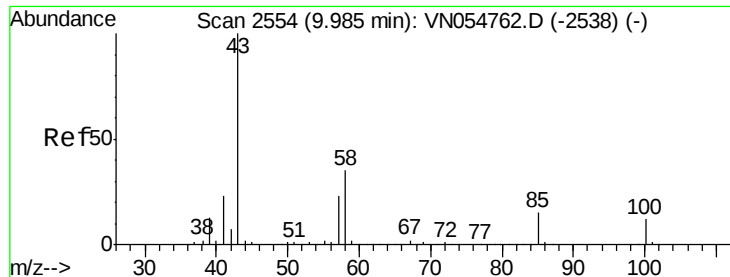
#50
Toluene-d8
Concen: 51.383 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 98 Resp: 1009070
Ion Ratio Lower Upper
98 100
100 63.4 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: 299.603 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

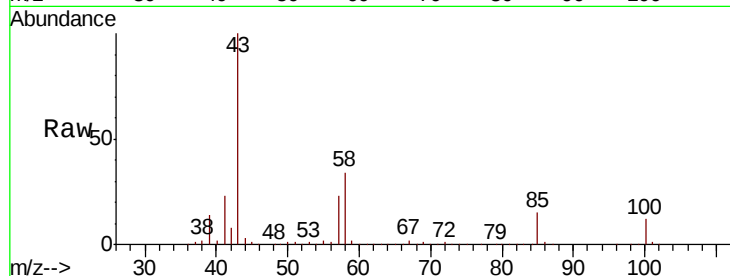
ClientSampled :

Tot Ion: 43 Resp: 1481801

Ion Ratio Lower Upper

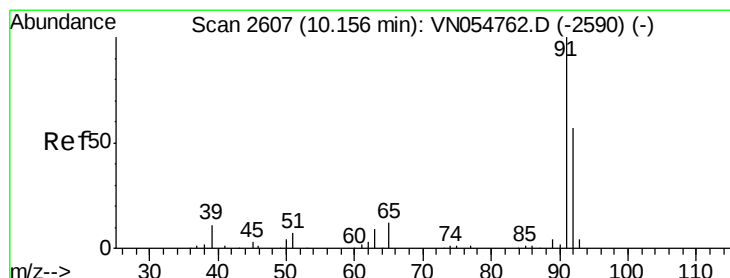
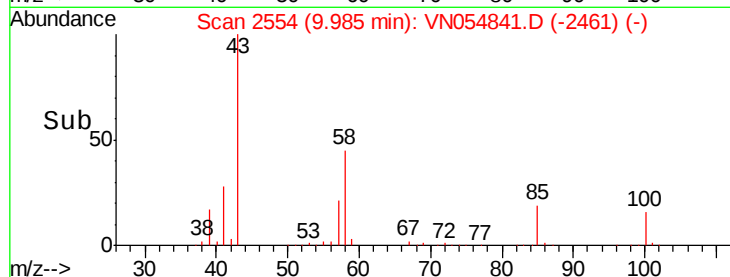
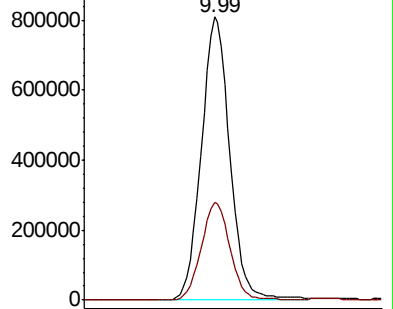
43 100

58 35.0 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 54.871 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054841.D

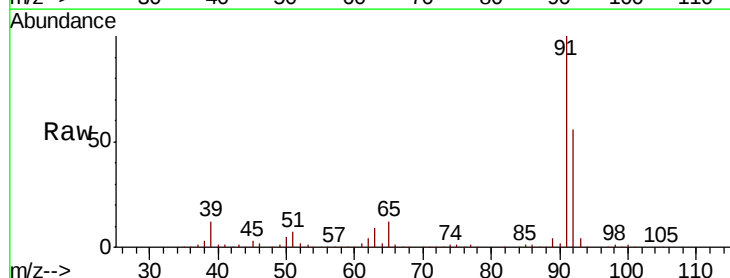
Acq: 31 Mar 2019 10:43

Tgt Ion: 92 Resp: 689747

Ion Ratio Lower Upper

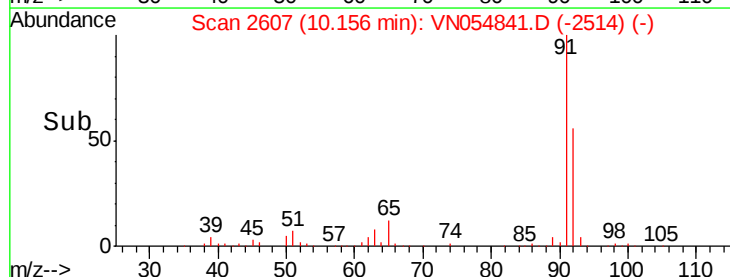
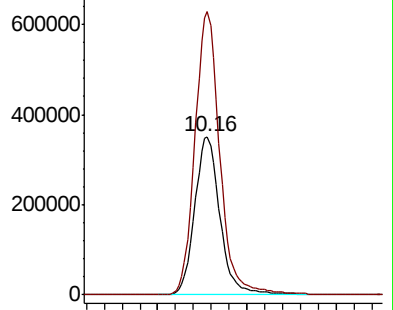
92 100

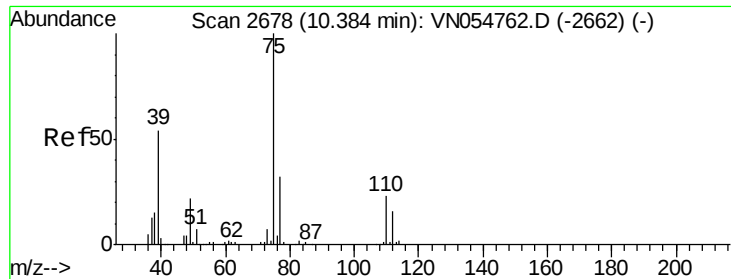
91 176.8 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 58.830 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

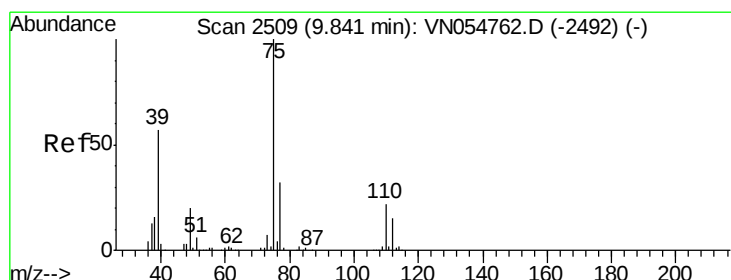
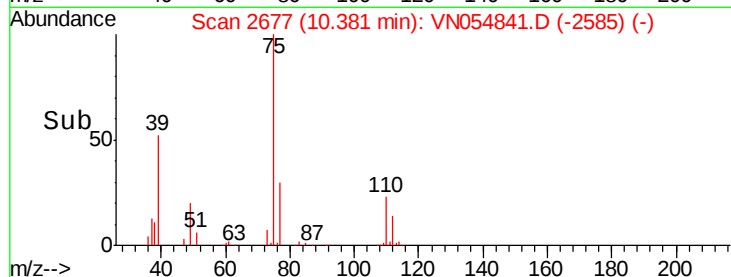
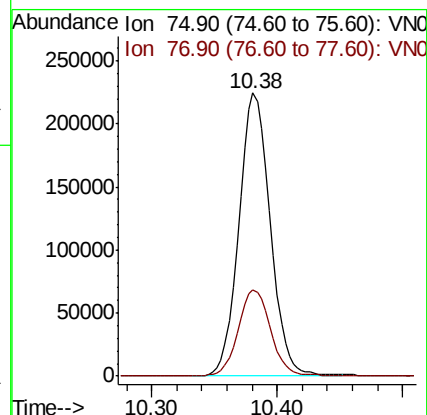
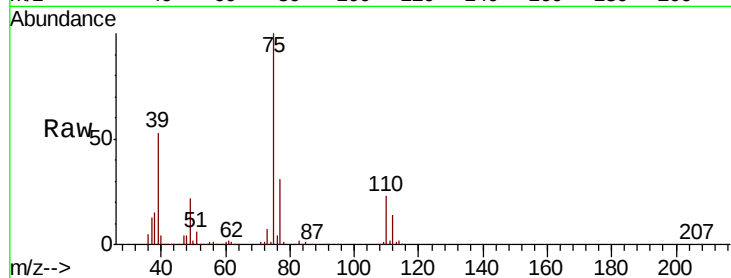
ClientSampled :

Tot Ion: 75 Resp: 389722

Ion Ratio Lower Upper

75 100

77 30.3 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 58.460 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

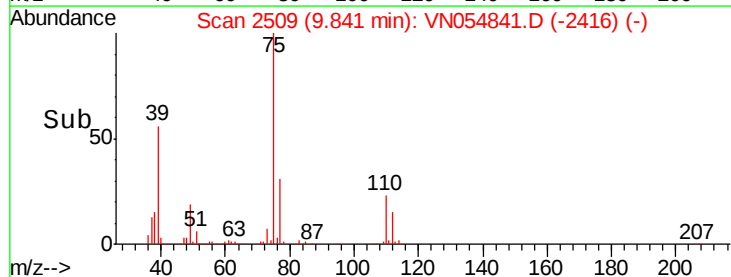
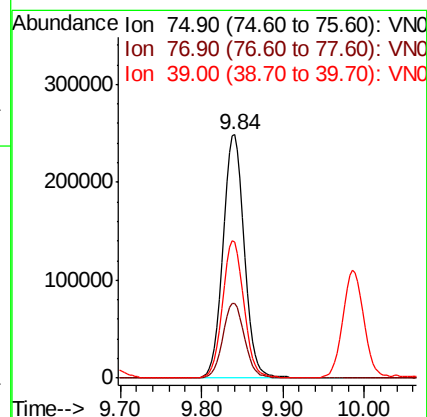
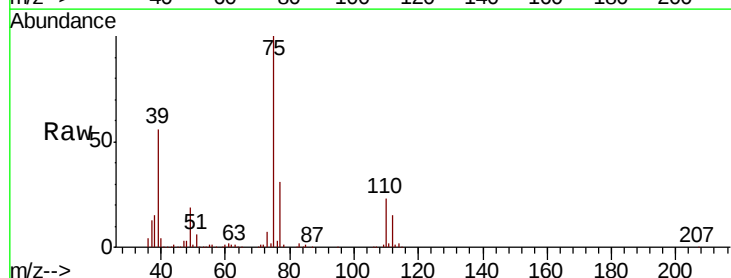
Tgt Ion: 75 Resp: 462614

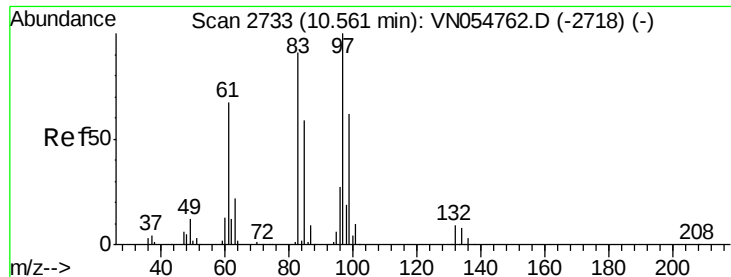
Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.0

39 55.6 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 54.309 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 97 Resp: 253845

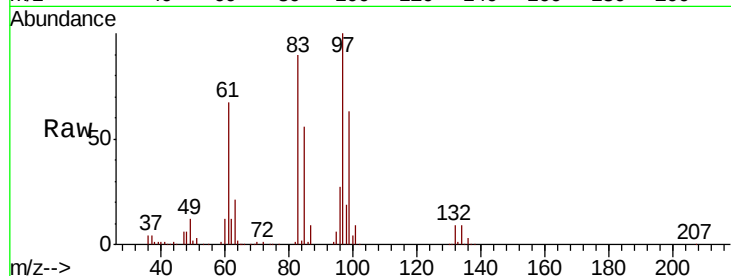
Ion	Ratio	Lower	Upper
97	100		
83	89.6	66.6	100.0
85	56.1	44.4	66.6
99	62.7	50.8	76.2

97 100

83 89.6 66.6 100.0

85 56.1 44.4 66.6

99 62.7 50.8 76.2



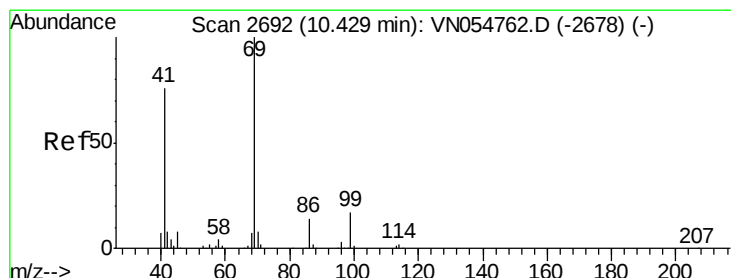
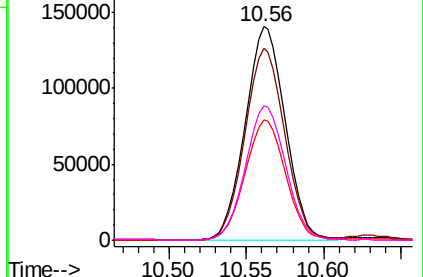
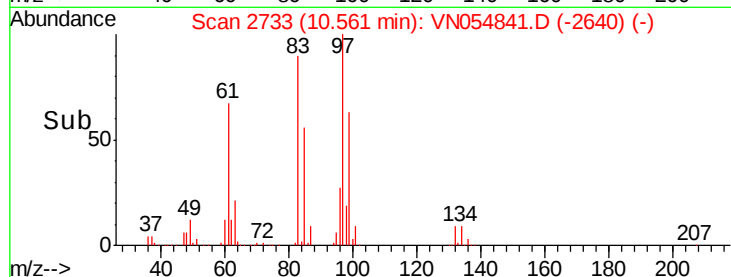
Abundance

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: 58.077 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

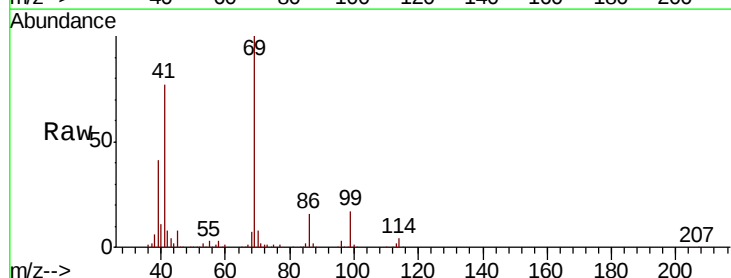
Tgt Ion: 69 Resp: 356095

Ion	Ratio	Lower	Upper
69	100		
41	74.7	49.4	74.2#
39	39.9	28.3	42.5

69 100

41 74.7 49.4 74.2#

39 39.9 28.3 42.5

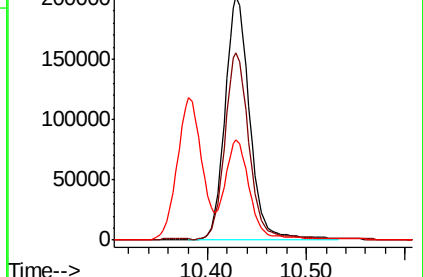
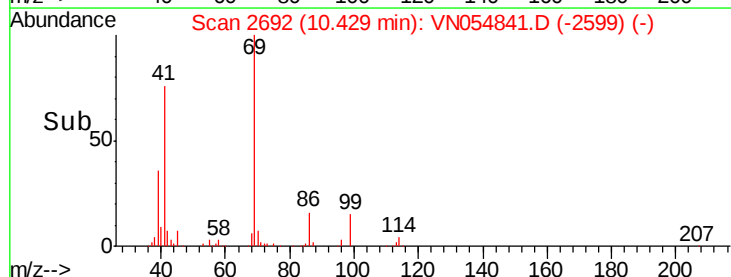


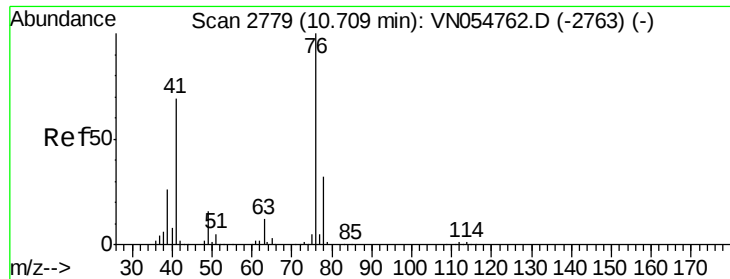
Abundance

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: 55.007 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

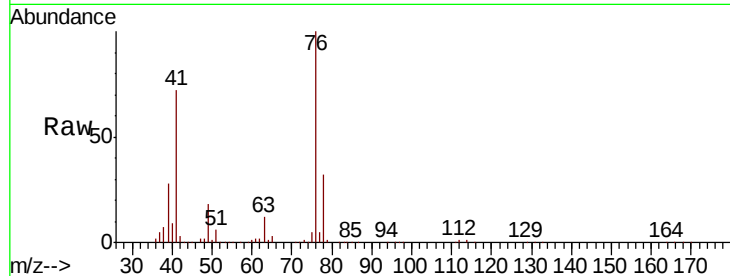
ClientSampled :

Tot Ion: 76 Resp: 442020

Ion Ratio Lower Upper

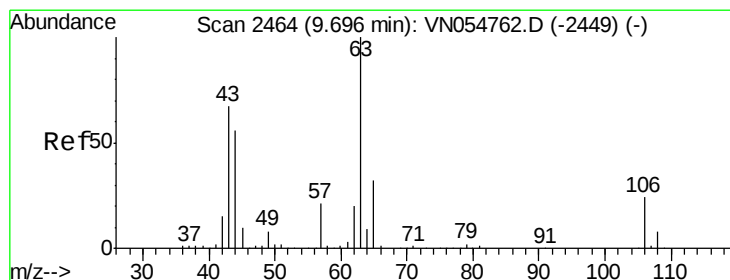
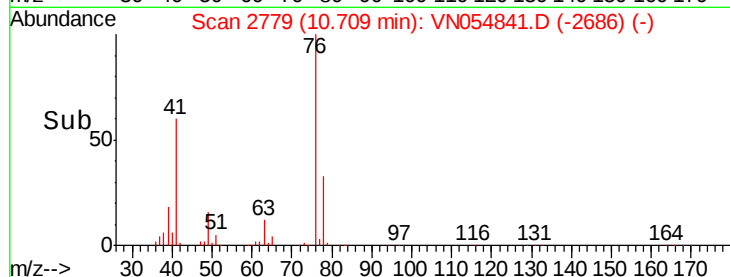
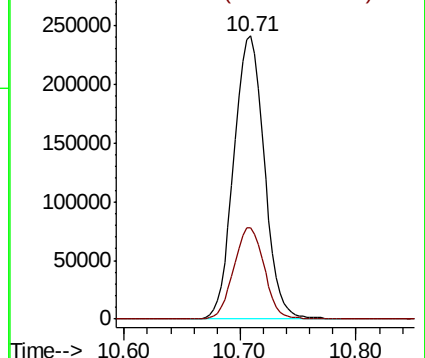
76 100

78 32.3 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 235.510 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054841.D

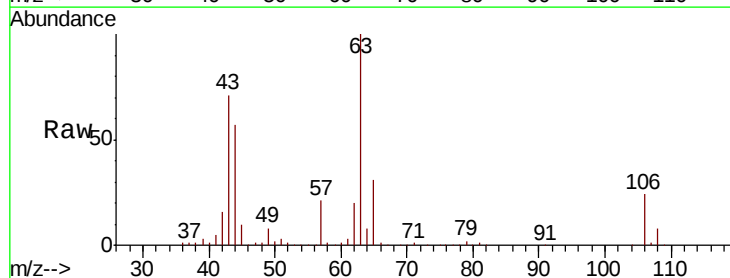
Acq: 31 Mar 2019 10:43

Tgt Ion: 63 Resp: 620369

Ion Ratio Lower Upper

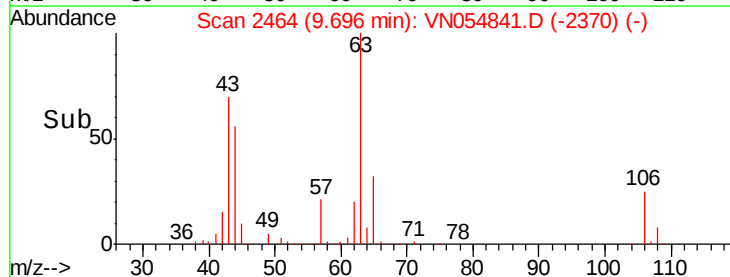
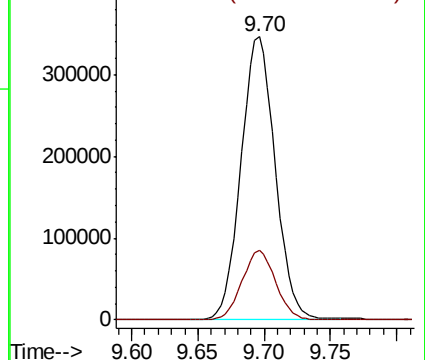
63 100

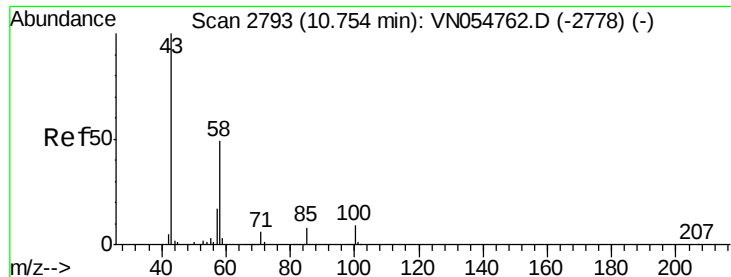
106 24.2 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

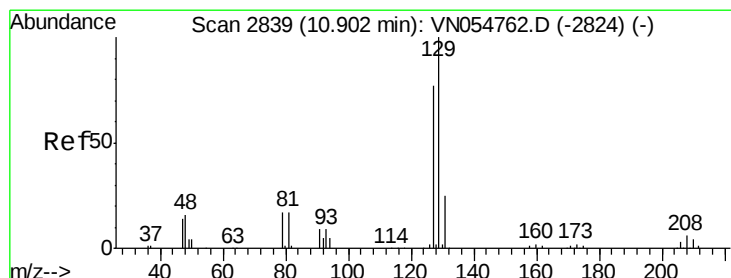
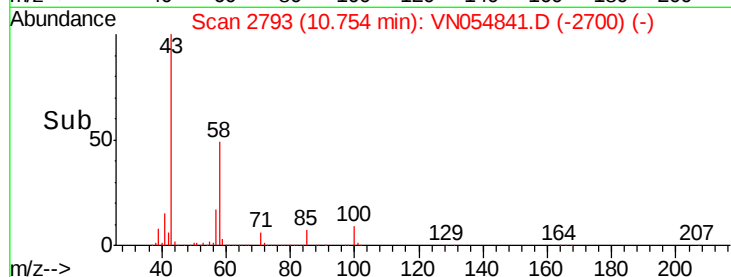
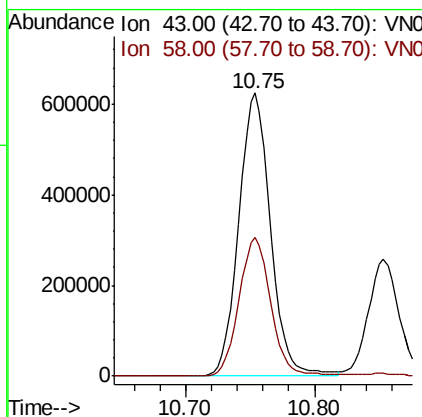
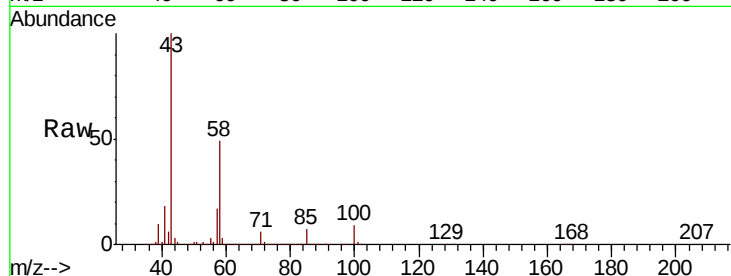




#59
2-Hexanone
Concen: 336.760 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

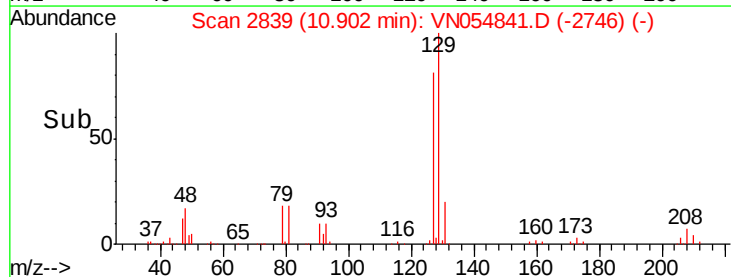
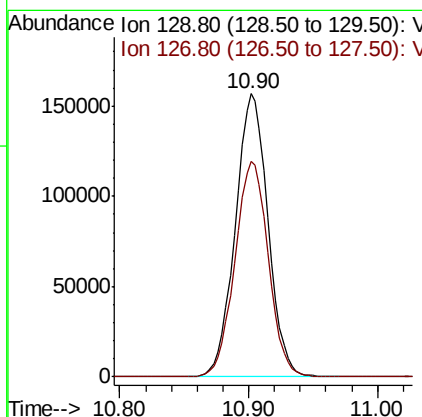
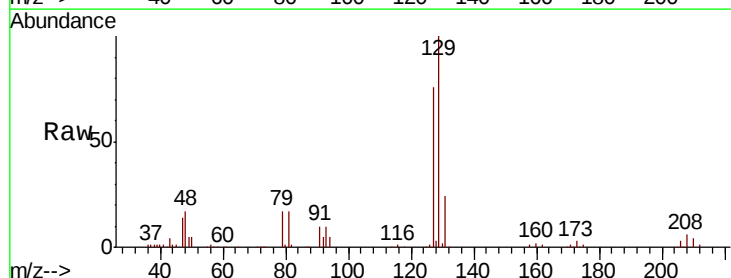
Instrument :
MSVOA_N
ClientSampleId :

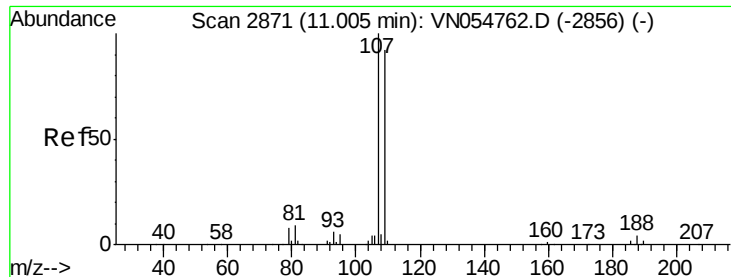
Tot Ion: 43 Resp: 1066236
Ion Ratio Lower Upper
43 100
58 49.5 28.0 83.9



#60
Dibromochloromethane
Concen: 58.257 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 129 Resp: 275830
Ion Ratio Lower Upper
129 100
127 78.1 38.6 115.8





#61

1,2-Dibromoethane

Concen: 55.674 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

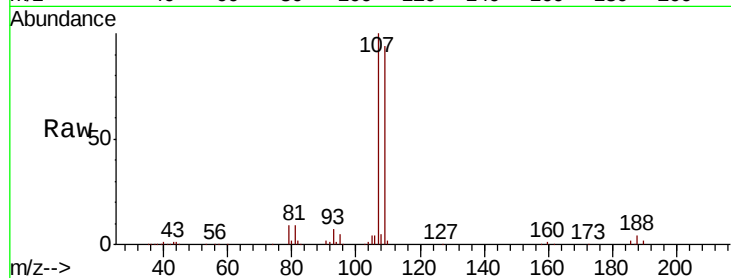
ClientSampleId :

Tot Ion:107 Resp: 248684

Ion Ratio Lower Upper

107 100

109 94.1 75.9 113.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

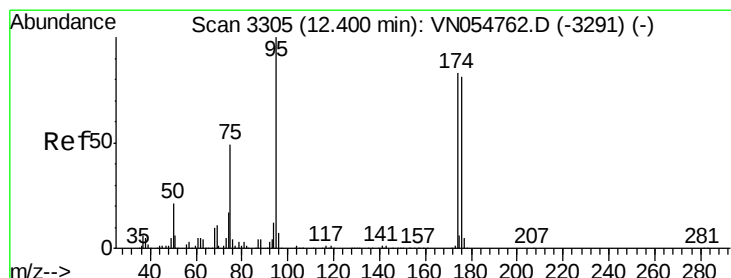
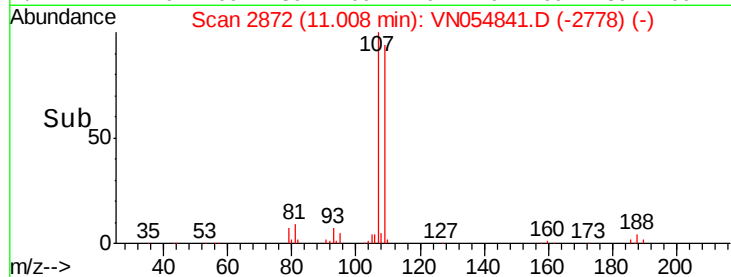
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.315 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

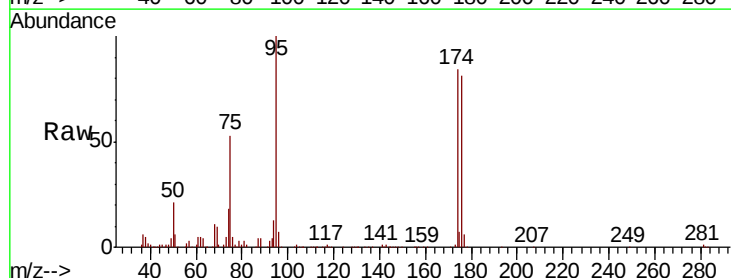
Tgt Ion: 95 Resp: 348210

Ion Ratio Lower Upper

95 100

174 85.9 0.0 191.0

176 82.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

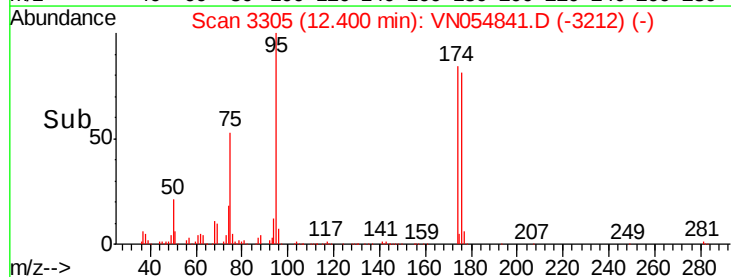
150000

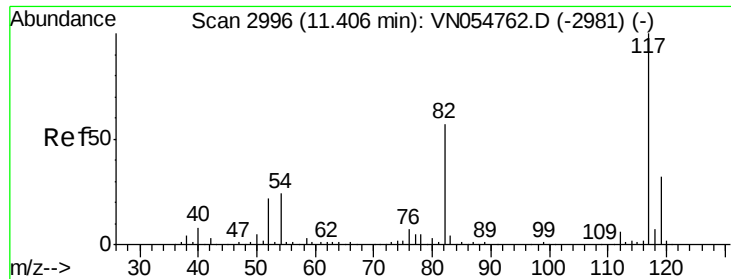
100000

50000

0

Time-->

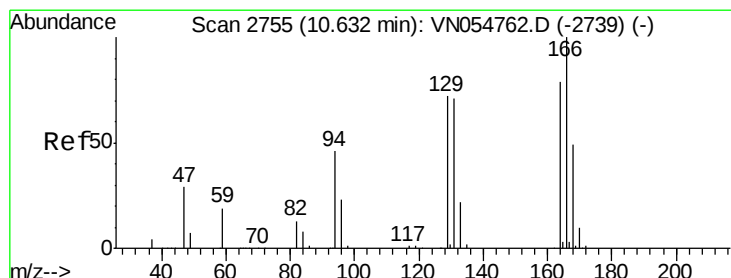
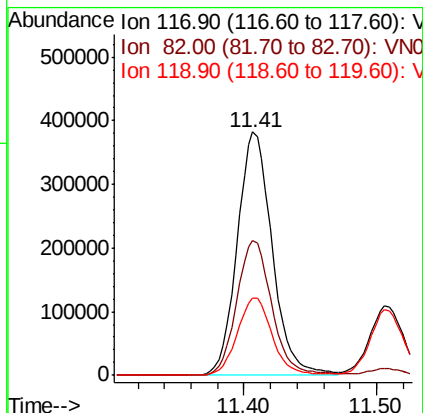
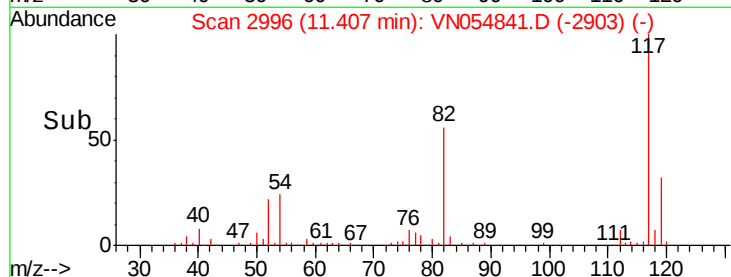
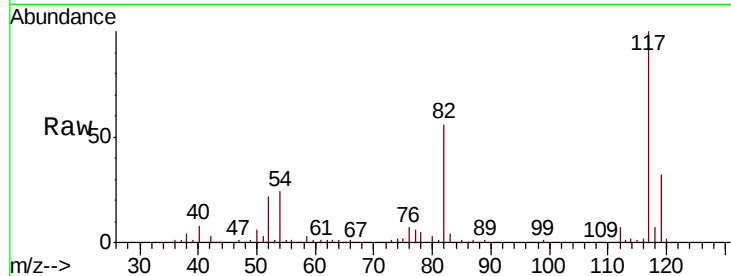




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

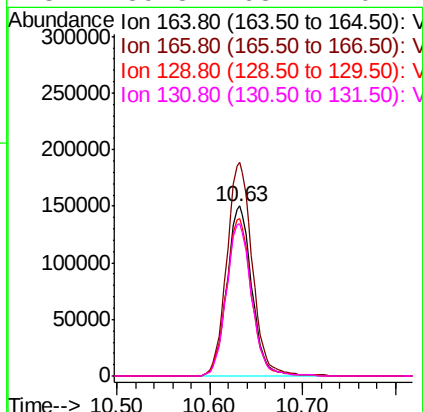
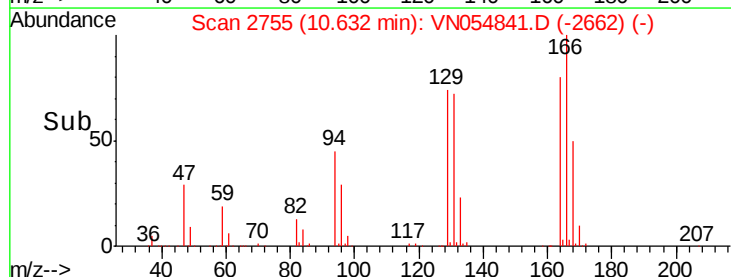
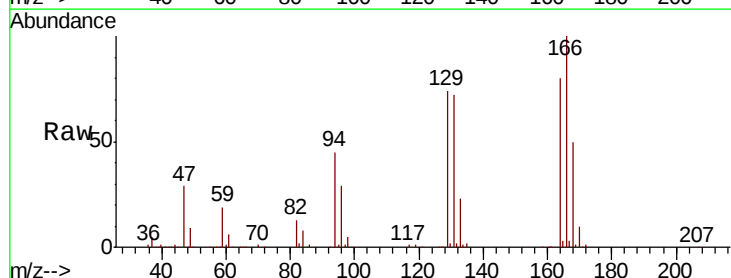
Instrument :
MSVOA_N
ClientSampled :

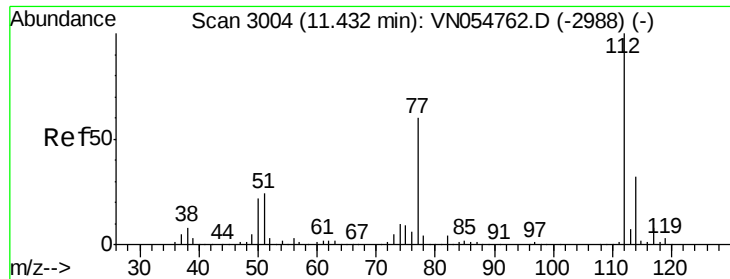
Tot Ion:117 Resp: 699667
Ion Ratio Lower Upper
117 100
82 55.5 40.0 60.0
119 31.8 25.8 38.6



#64
Tetrachloroethene
Concen: 52.357 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion:164 Resp: 281108
Ion Ratio Lower Upper
164 100
166 125.8 103.9 155.9
129 92.6 71.1 106.7
131 89.8 68.2 102.4

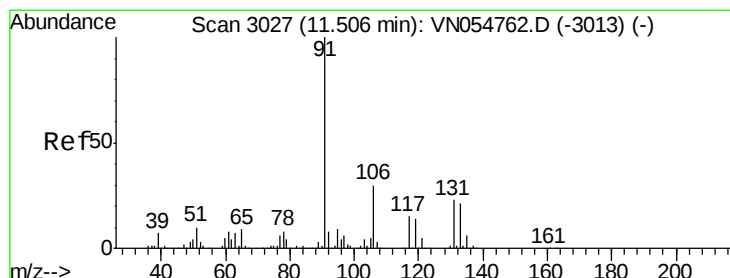
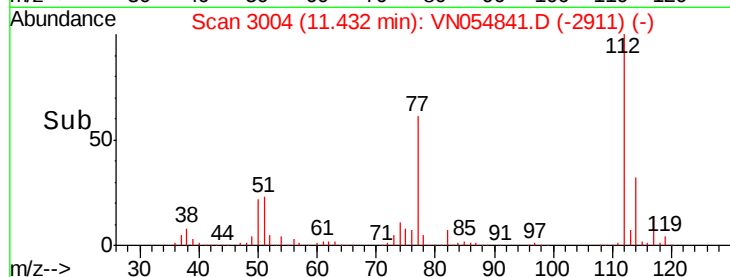
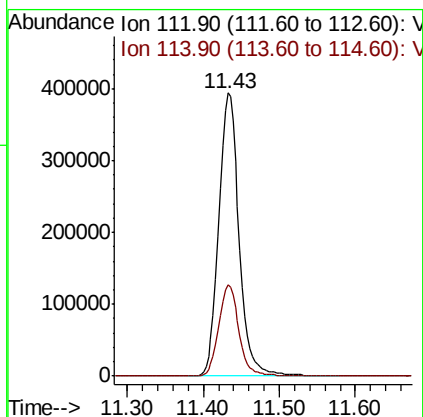
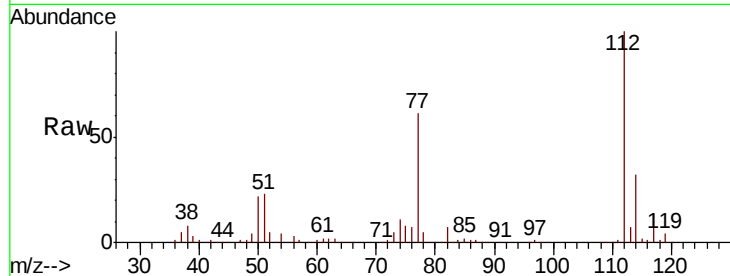




#65
Chlorobenzene
Concen: 53.177 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

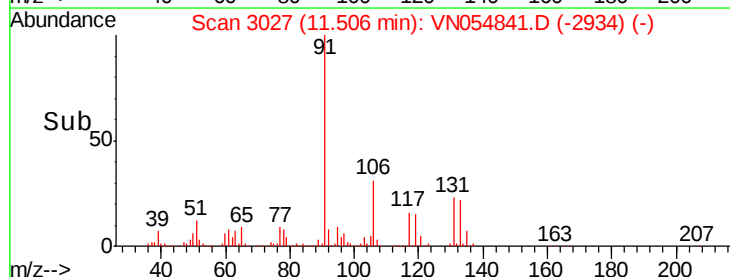
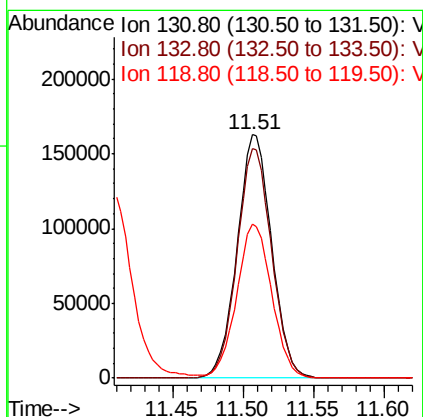
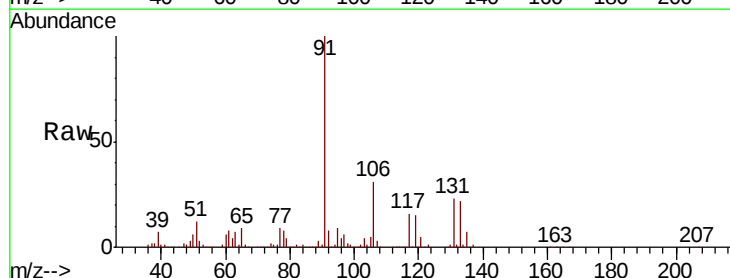
Instrument :
MSVOA_N
ClientSampled :

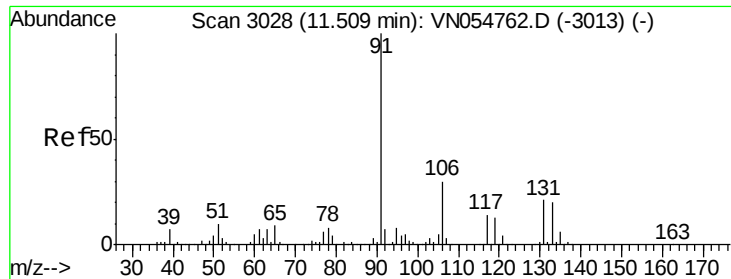
Tot Ion:112 Resp: 728457
Ion Ratio Lower Upper
112 100
114 32.1 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 54.435 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion:131 Resp: 279110
Ion Ratio Lower Upper
131 100
133 94.5 47.6 142.9
119 64.5 32.4 97.0

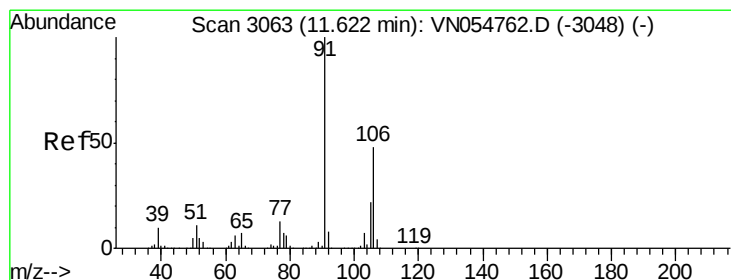
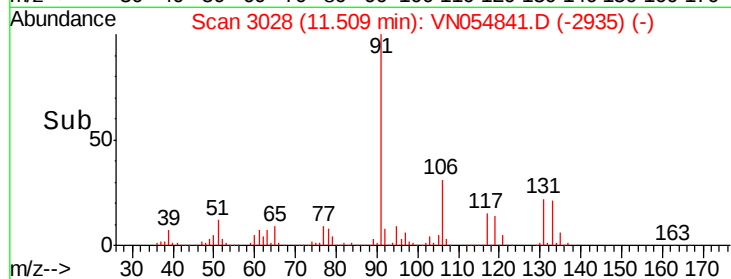
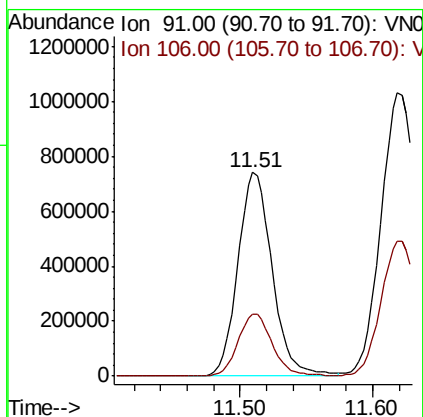
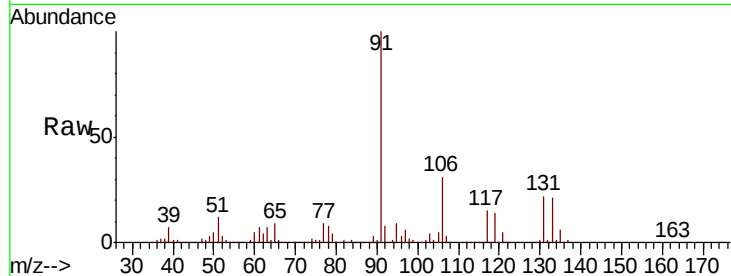




#67
Ethyl Benzene
Concen: 53.953 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

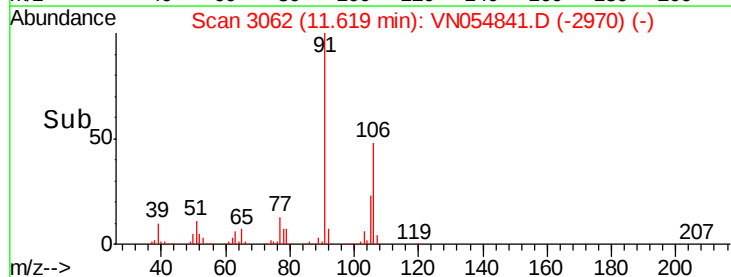
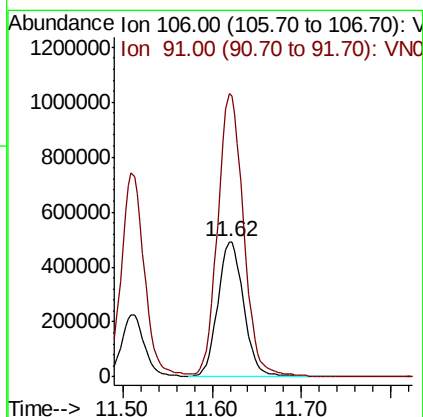
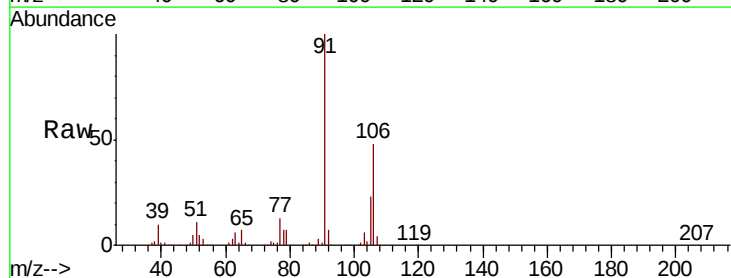
Instrument :
MSVOA_N
ClientSampled :

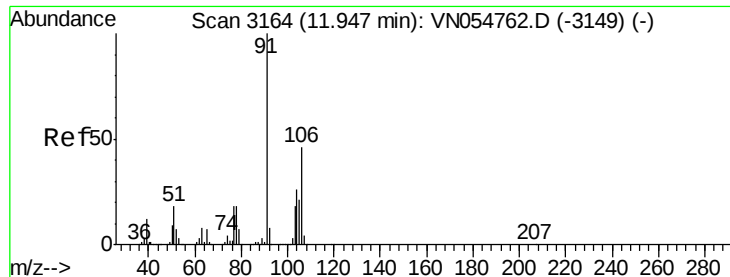
Tot Ion: 91 Resp: 1333725
Ion Ratio Lower Upper
91 100
106 30.6 25.5 38.3



#68
m/p-Xylenes
Concen: 108.788 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 106 Resp: 995195
Ion Ratio Lower Upper
106 100
91 208.5 159.4 239.2

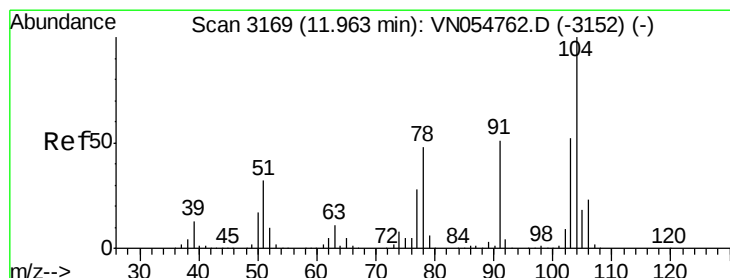
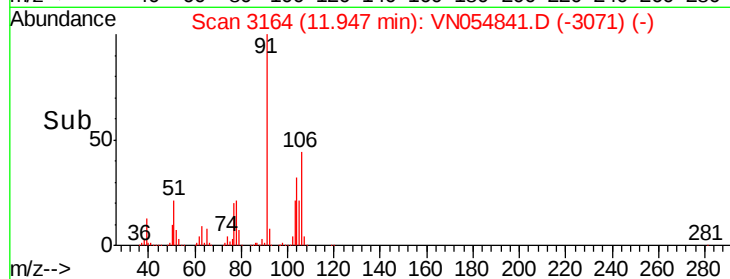
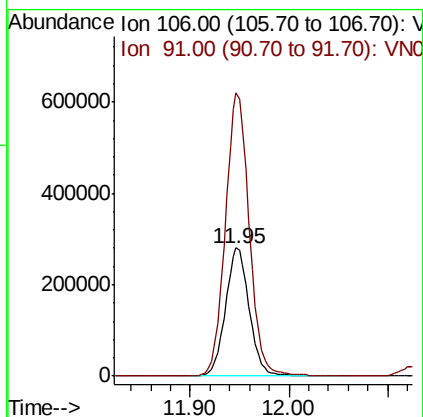
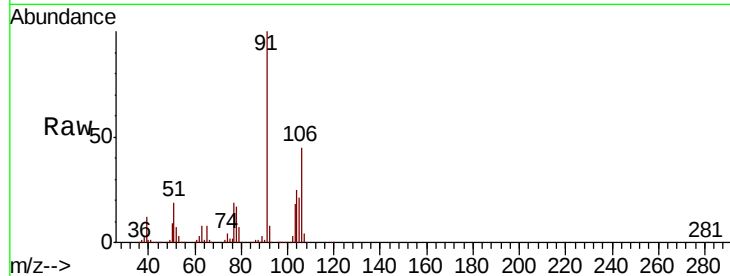




#69
o-Xylene
Concen: 52.854 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

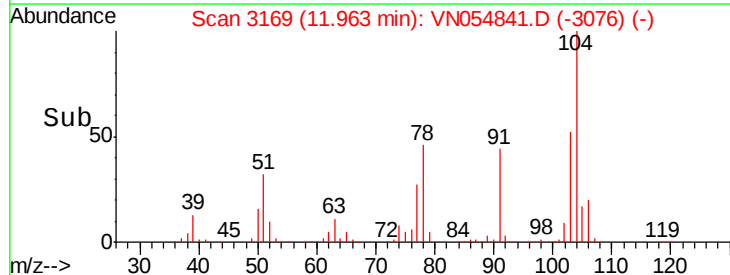
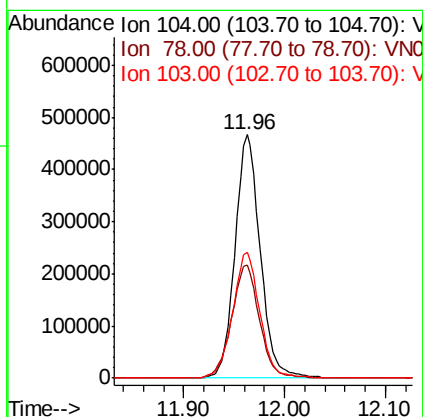
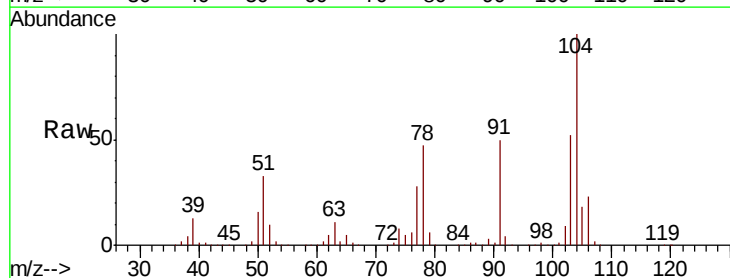
Instrument :
MSVOA_N
ClientSampleId :

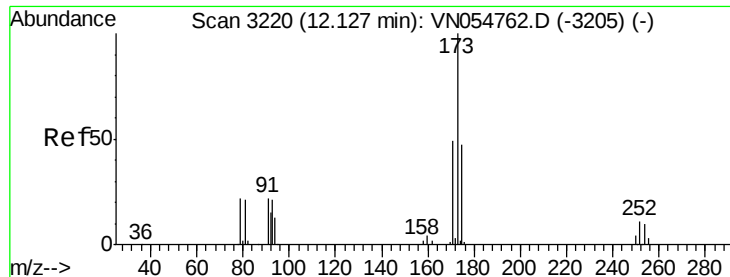
Tot Ion:106 Resp: 474127
Ion Ratio Lower Upper
106 100
91 221.8 105.7 317.1



#70
Styrene
Concen: 56.652 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion:104 Resp: 812567
Ion Ratio Lower Upper
104 100
78 51.3 38.2 57.2
103 55.6 44.4 66.6





#71

Bromoform

Concen: 58.166 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampled :

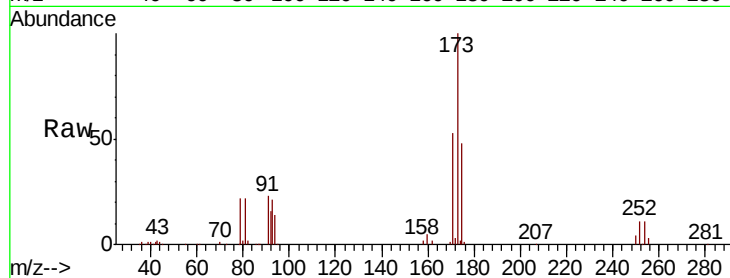
Tot Ion:173 Resp: 174720

Ion Ratio Lower Upper

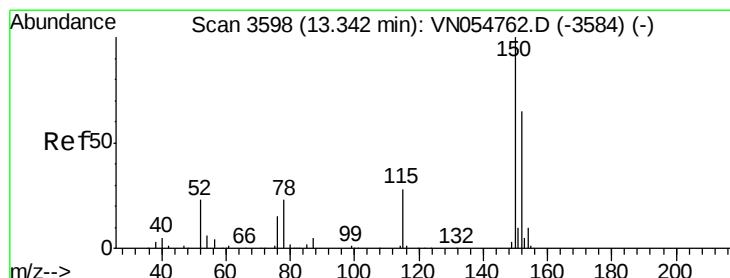
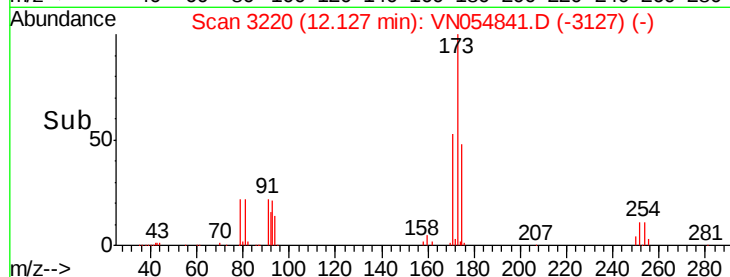
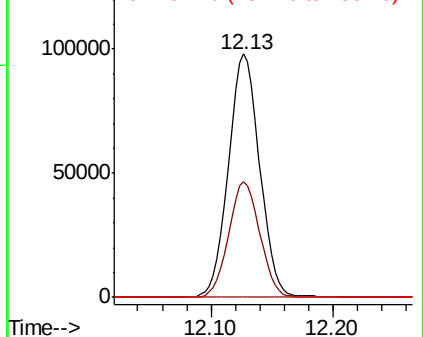
173 100

175 47.4 24.4 73.2

254 0.1 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

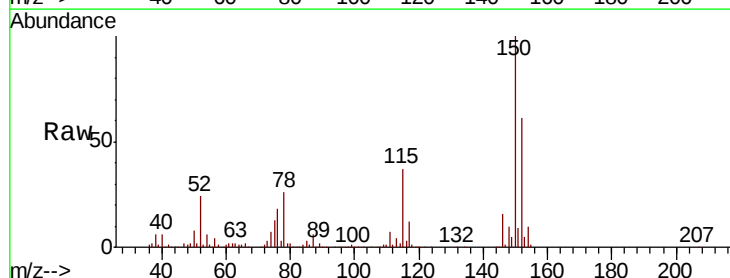
Tgt Ion:152 Resp: 319346

Ion Ratio Lower Upper

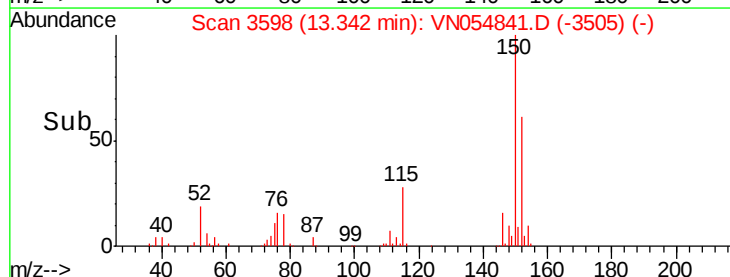
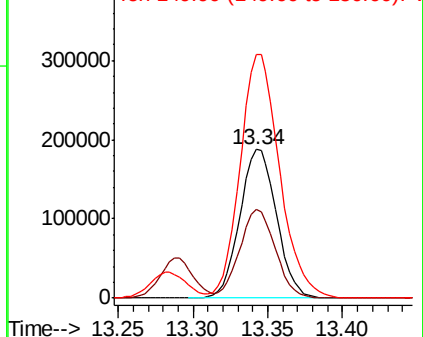
152 100

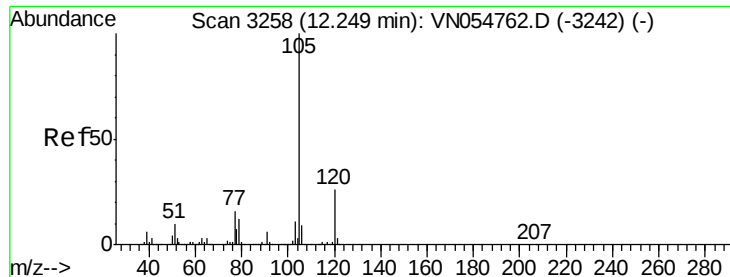
115 58.5 27.2 81.6

150 176.2 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: 49.079 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

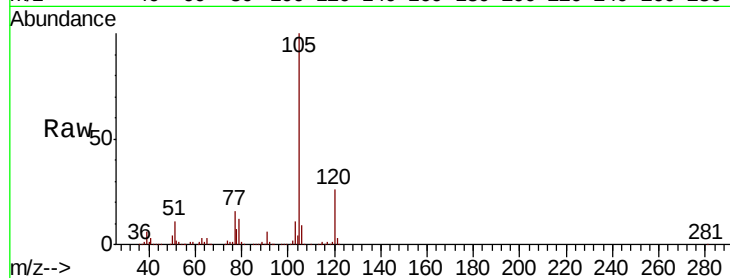
ClientSampled :

Tot Ion:105 Resp: 1281063

Ion Ratio Lower Upper

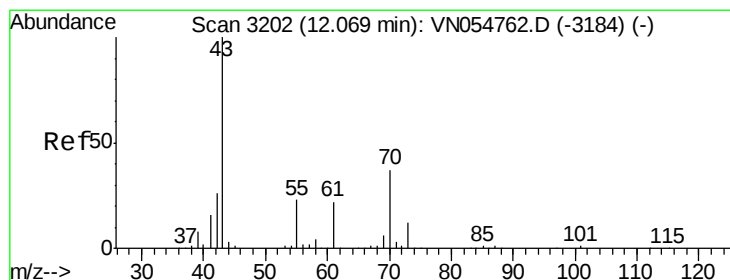
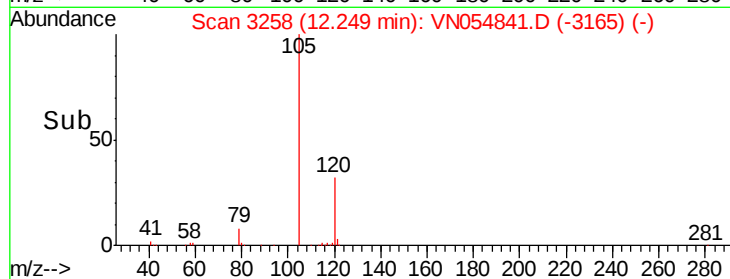
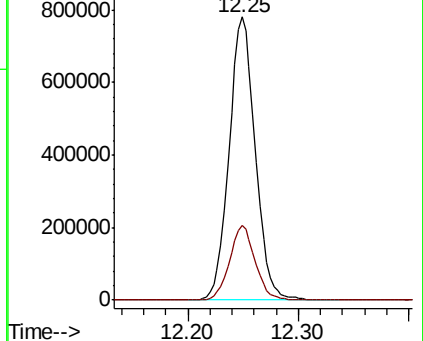
105 100

120 26.0 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 53.056 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Tgt Ion: 43 Resp: 431447

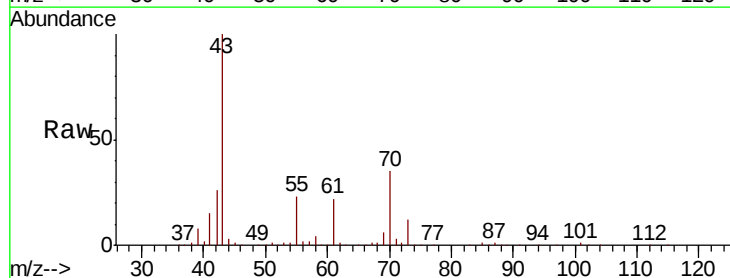
Ion Ratio Lower Upper

43 100

70 36.1 35.4 53.0

55 23.3 19.8 29.6

61 21.6 19.8 29.6

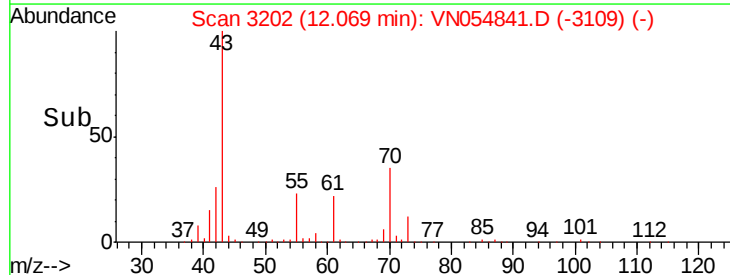
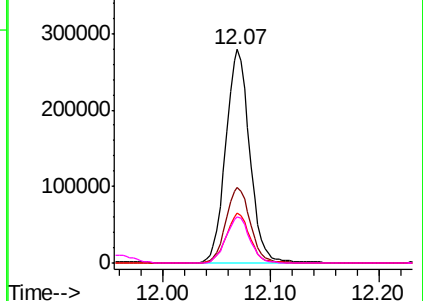


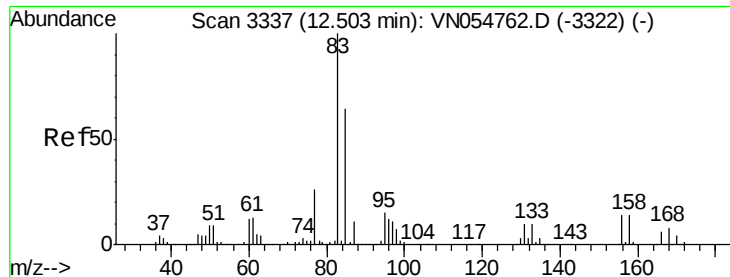
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 56.017 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

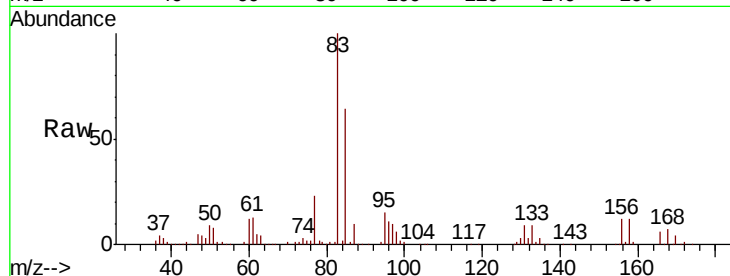
Tot Ion: 83 Resp: 321141

Ion Ratio Lower Upper

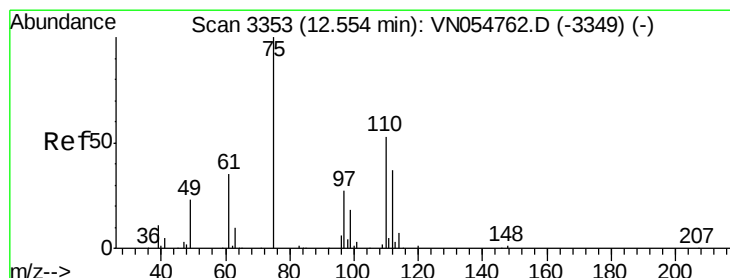
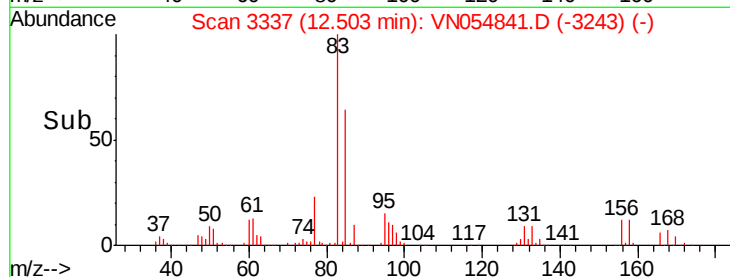
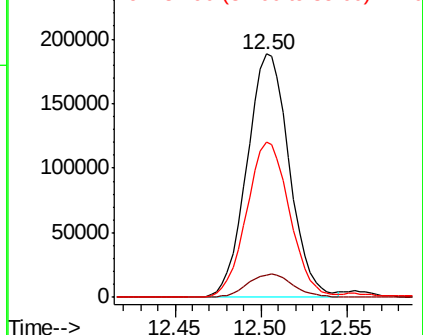
83 100

131 10.2 5.8 17.4

85 65.0 32.2 96.6



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



#76

1,2,3-Trichloropropane

Concen: 70.364 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054841.D

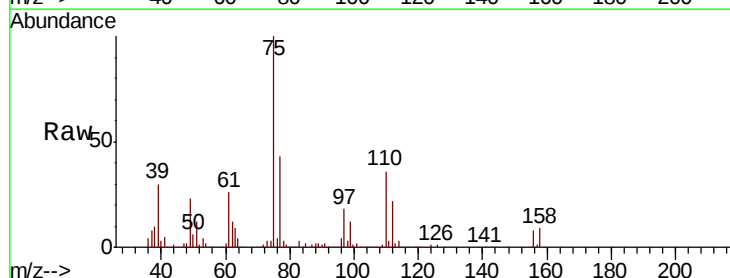
Acq: 31 Mar 2019 10:43

Tgt Ion: 75 Resp: 390363

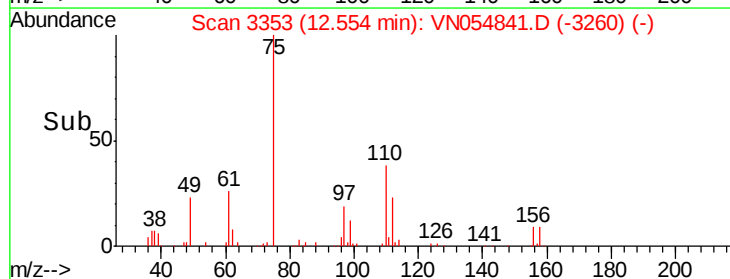
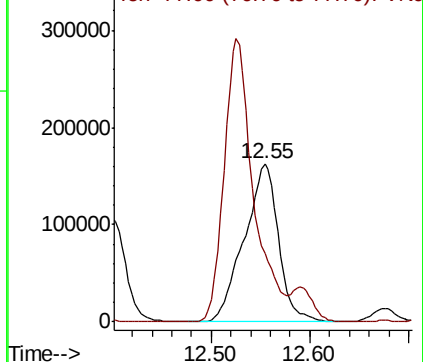
Ion Ratio Lower Upper

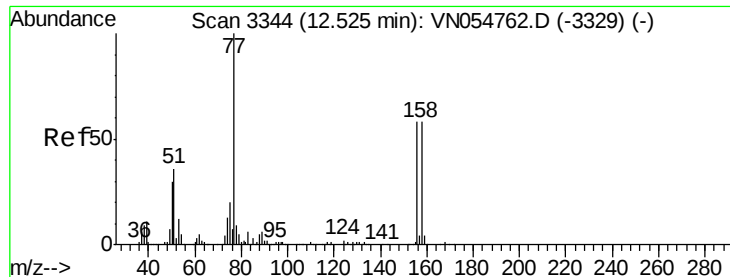
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 49.786 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

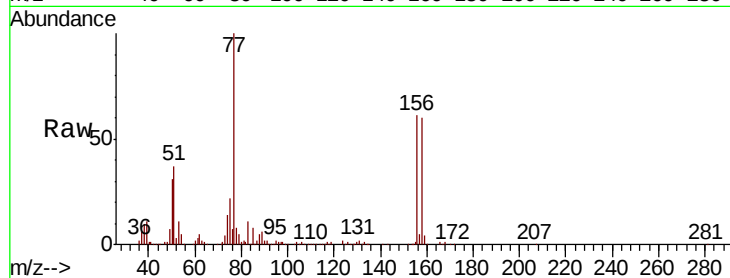
Tot Ion:156 Resp: 313634

Ion Ratio Lower Upper

156 100

77 194.4 81.5 244.4

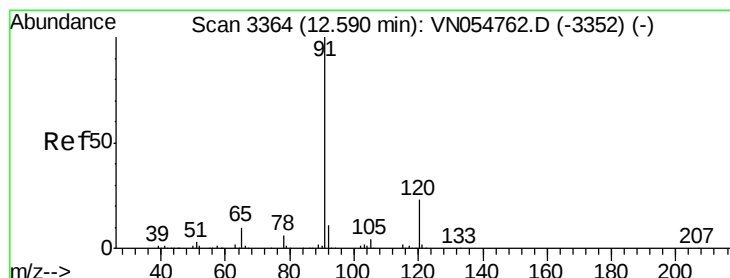
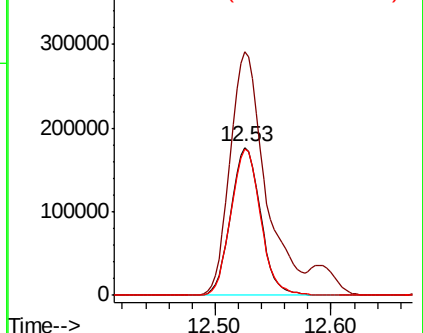
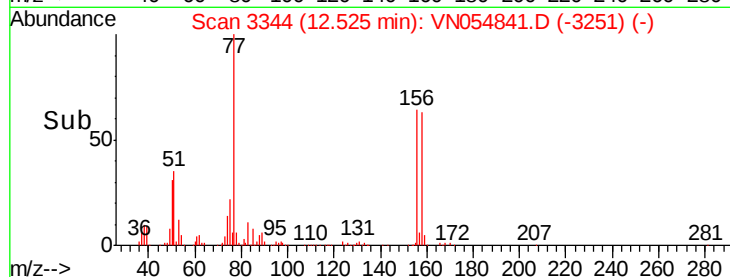
158 98.8 49.0 147.2



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: 50.804 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054841.D

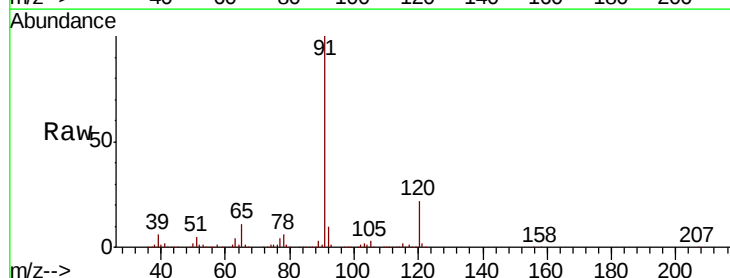
Acq: 31 Mar 2019 10:43

Tgt Ion: 91 Resp: 1457509

Ion Ratio Lower Upper

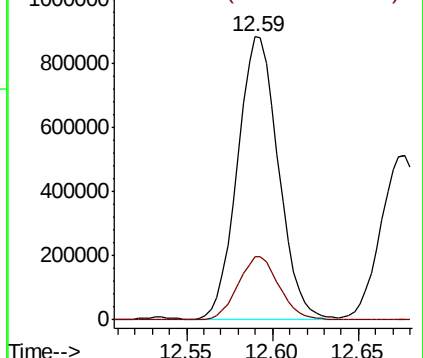
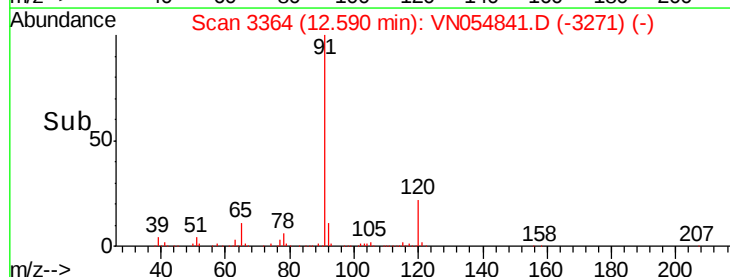
91 100

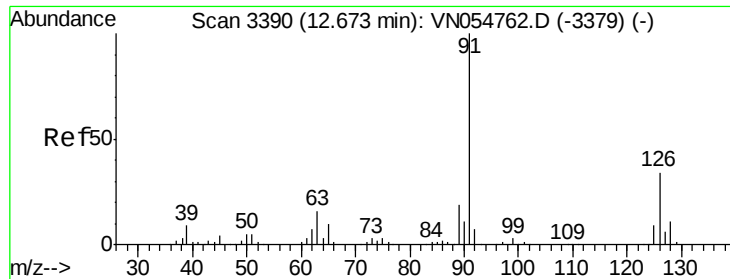
120 22.5 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

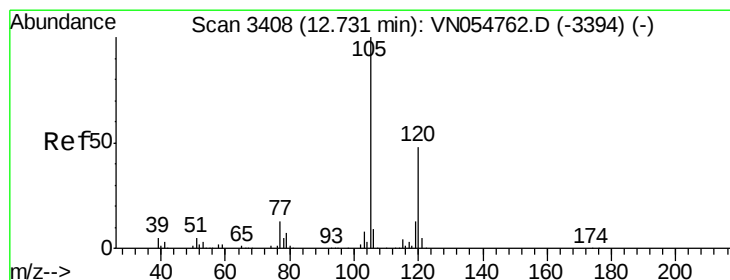
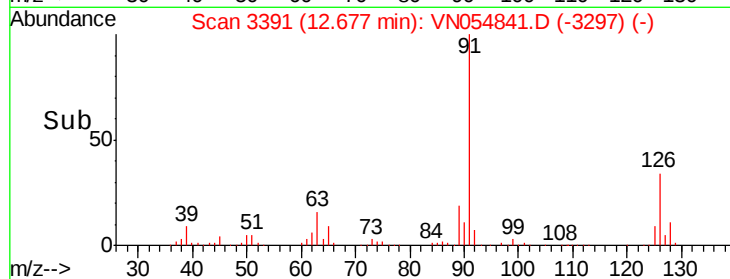
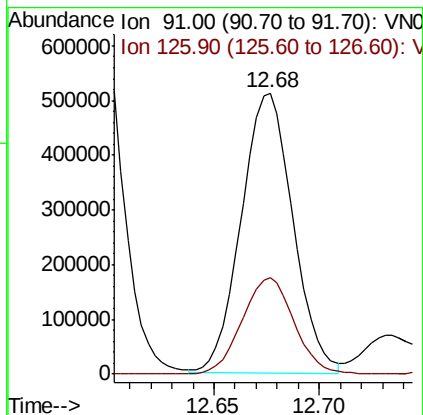
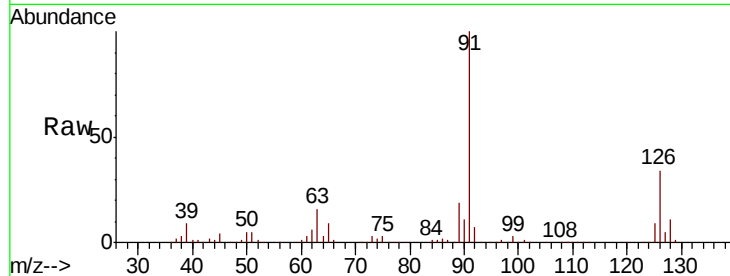




#79
 2-Chlorotoluene
 Concen: 49.227 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

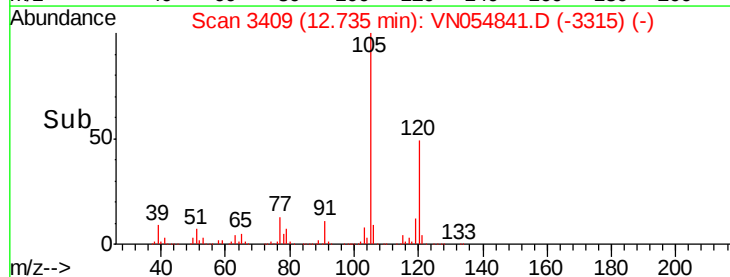
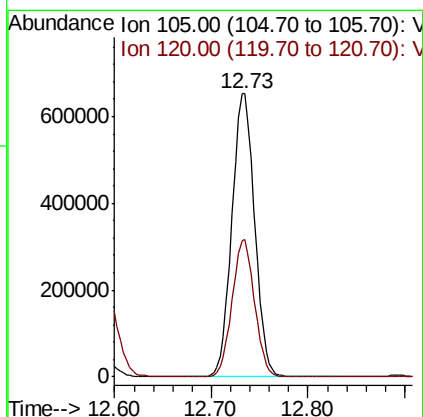
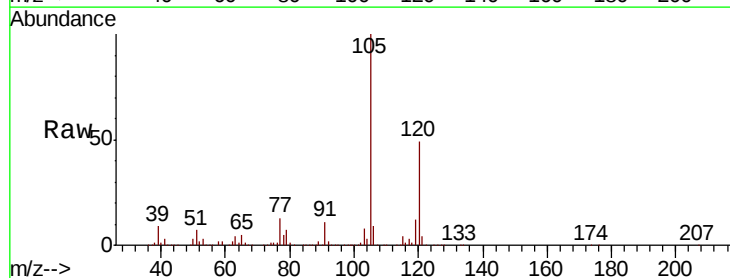
Instrument :
 MSVOA_N
 ClientSampled :

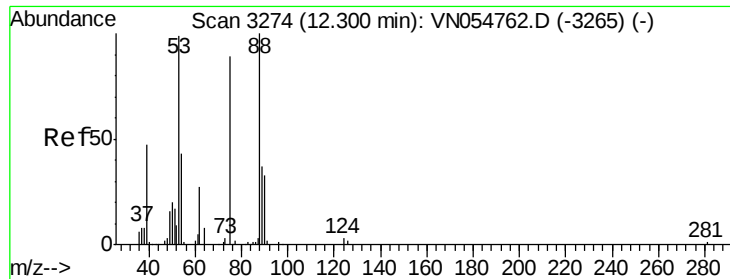
Tot Ion: 91 Resp: 873730
 Ion Ratio Lower Upper
 91 100
 126 34.7 18.7 56.1



#80
 1,3,5-Trimethylbenzene
 Concen: 49.743 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion: 105 Resp: 1065373
 Ion Ratio Lower Upper
 105 100
 120 48.1 25.0 75.0

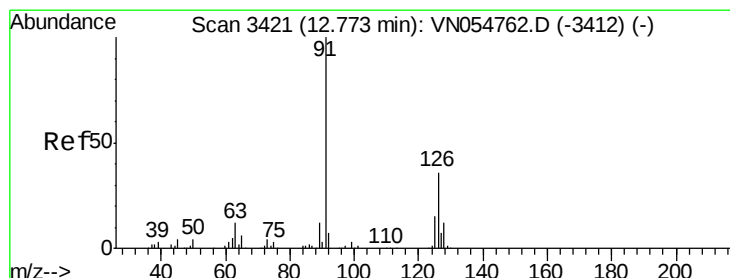
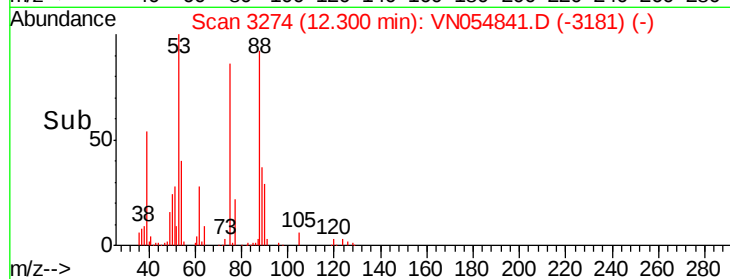
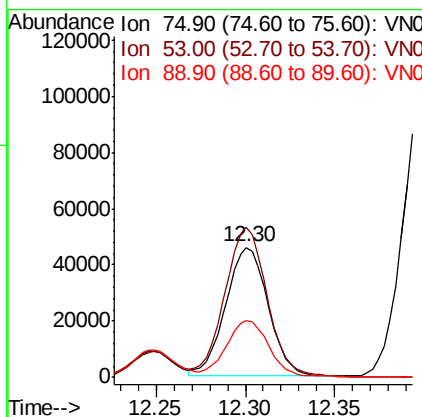
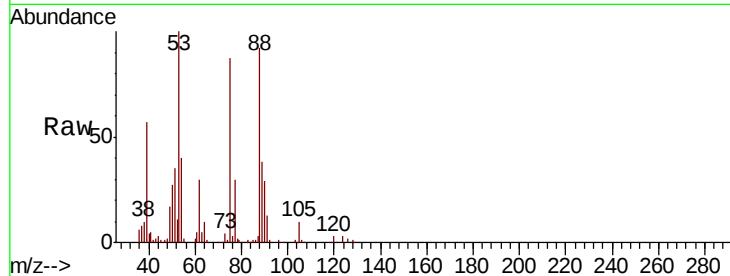




#81
trans-1,4-Dichloro-2-butene
Concen: 53.485 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

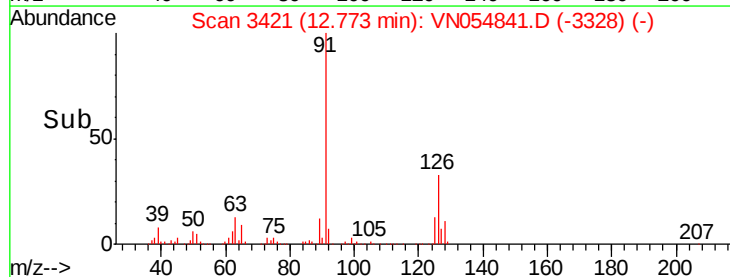
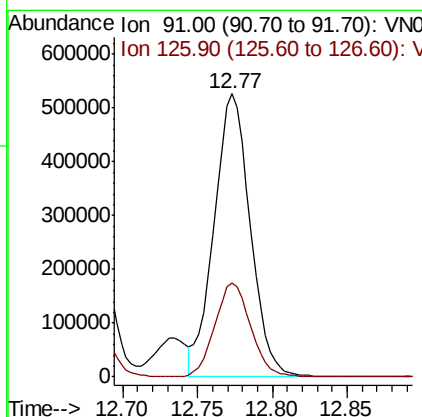
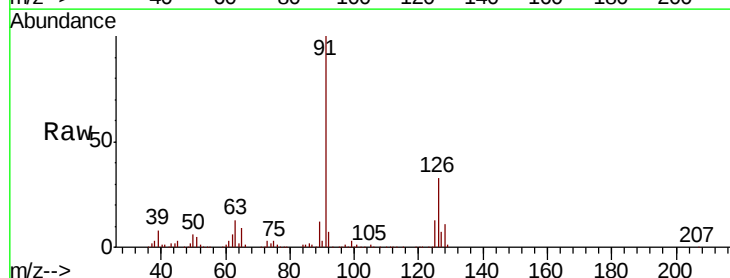
Instrument :
MSVOA_N
ClientSampled :

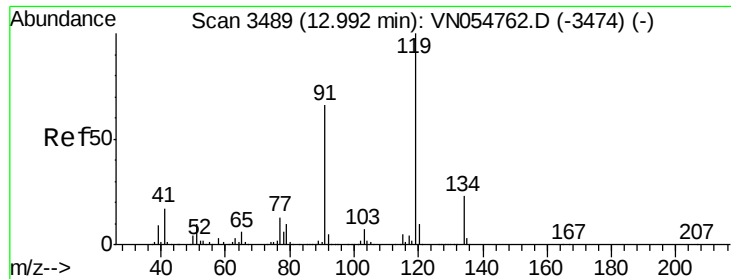
Tot Ion: 75 Resp: 76284
Ion Ratio Lower Upper
75 100
53 117.5 76.2 114.2#
89 44.3 39.2 58.8



#82
4-Chlorotoluene
Concen: 51.331 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054841.D
Acq: 31 Mar 2019 10:43

Tgt Ion: 91 Resp: 884917
Ion Ratio Lower Upper
91 100
126 33.0 18.1 54.1

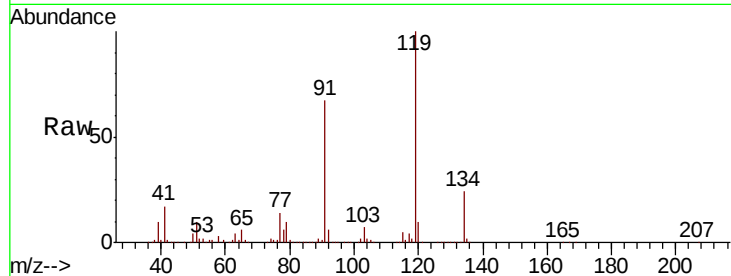




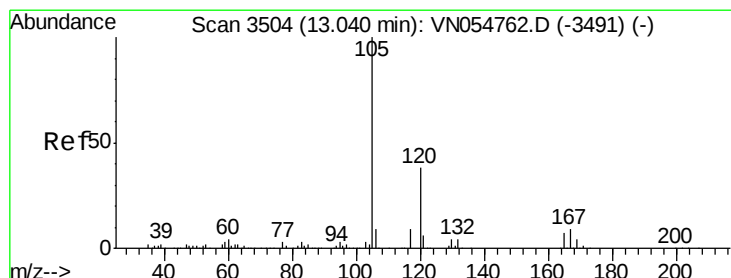
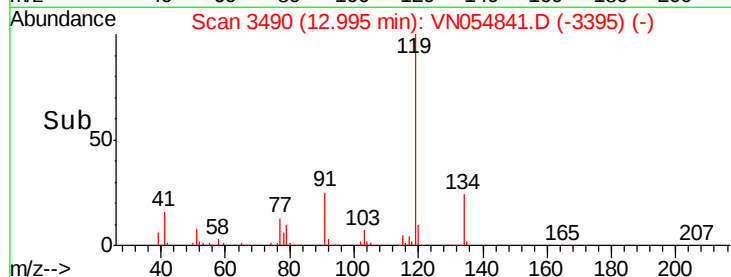
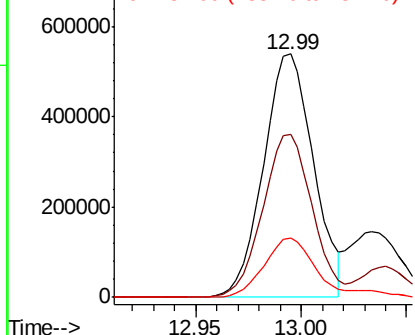
#83
 tert-Butylbenzene
 Concen: 53.736 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:119 Resp: 889154
 Ion Ratio Lower Upper
 119 100
 91 66.2 30.9 92.8
 134 24.4 13.2 39.6

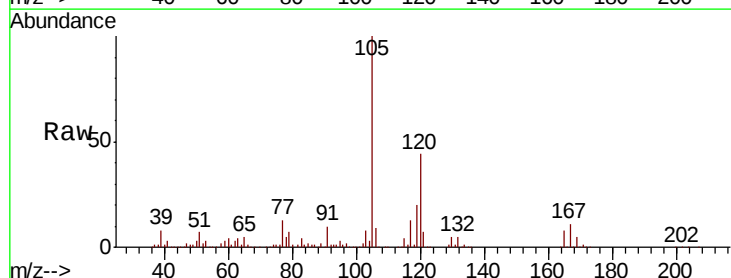


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

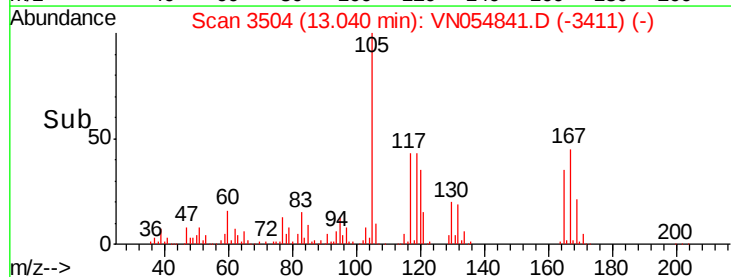
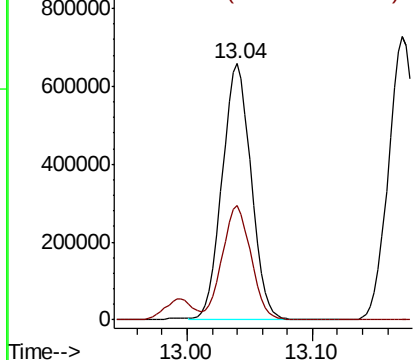


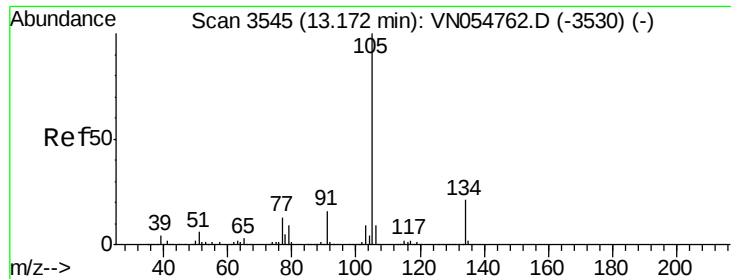
#84
 1,2,4-Trimethylbenzene
 Concen: 51.599 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion:105 Resp: 1052856
 Ion Ratio Lower Upper
 105 100
 120 44.5 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 50.458 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

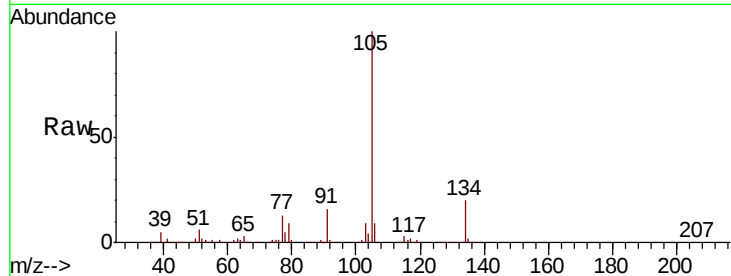
ClientSampleId :

Tot Ion:105 Resp: 1173967

Ion Ratio Lower Upper

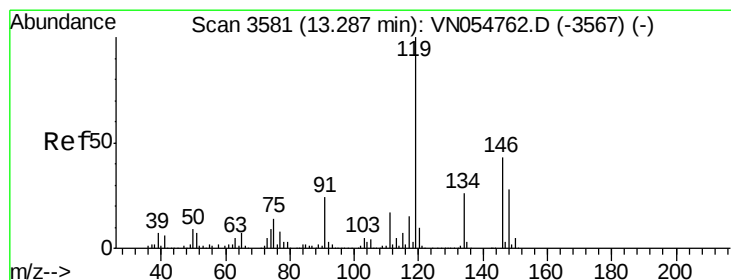
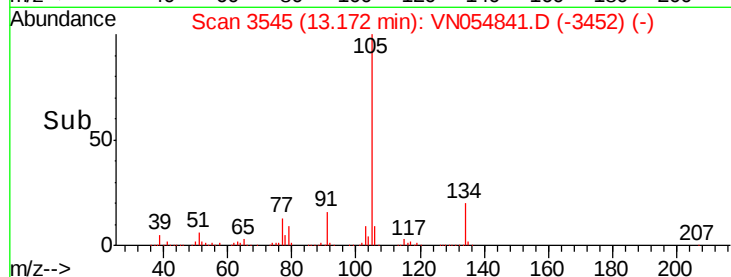
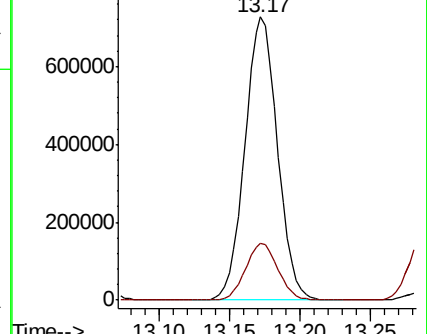
105 100

134 19.9 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: 50.579 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

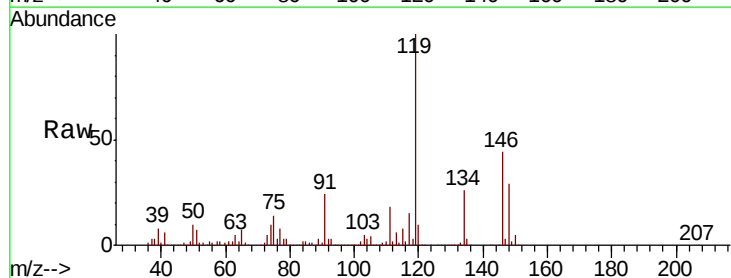
Tgt Ion:119 Resp: 1037919

Ion Ratio Lower Upper

119 100

134 26.5 13.6 40.8

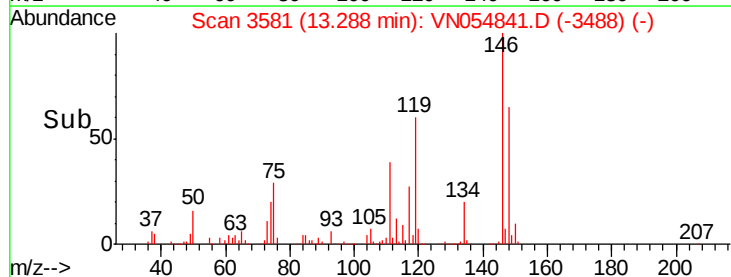
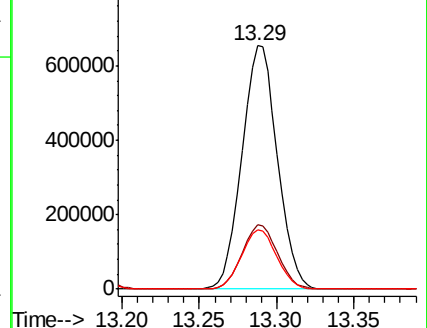
91 24.3 11.1 33.3

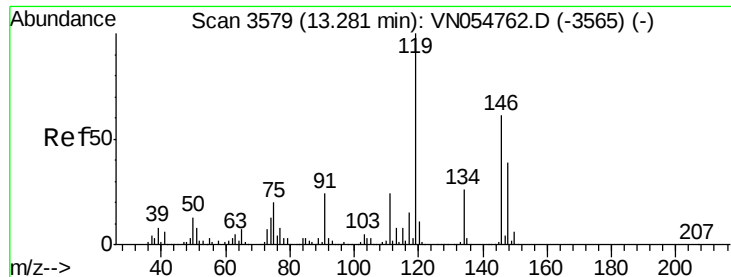


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 51.720 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

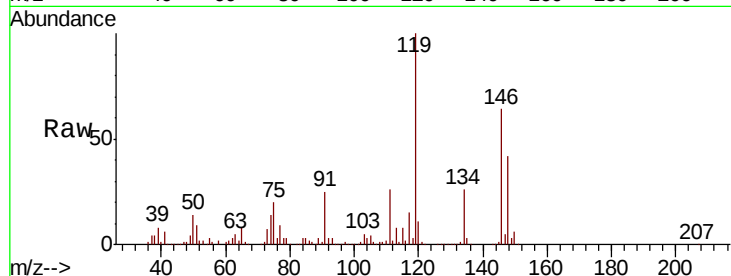
Tot Ion:146 Resp: 545495

Ion Ratio Lower Upper

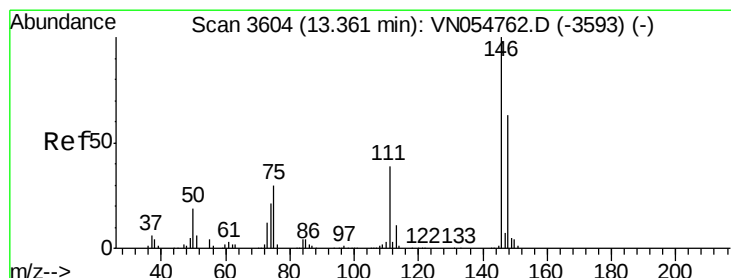
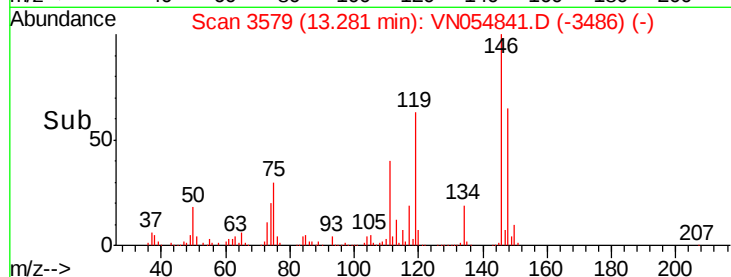
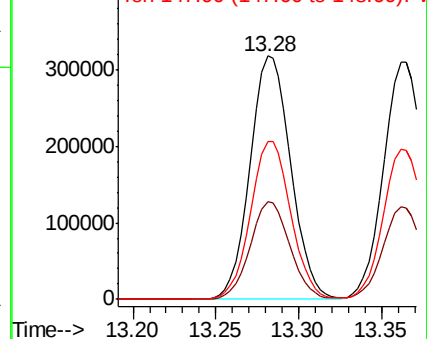
146 100

111 39.1 18.8 56.3

148 64.3 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 51.407 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

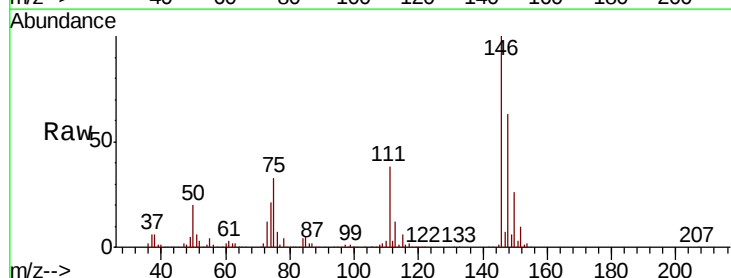
Tgt Ion:146 Resp: 531783

Ion Ratio Lower Upper

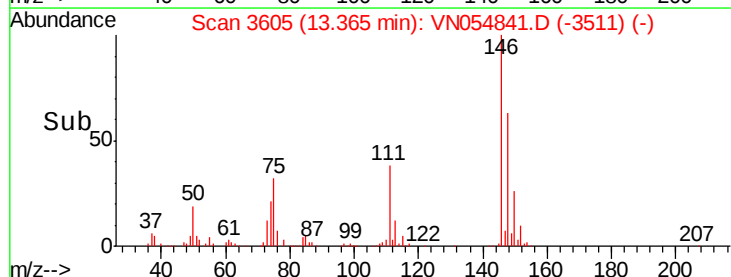
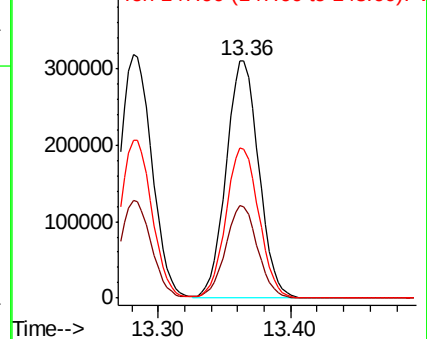
146 100

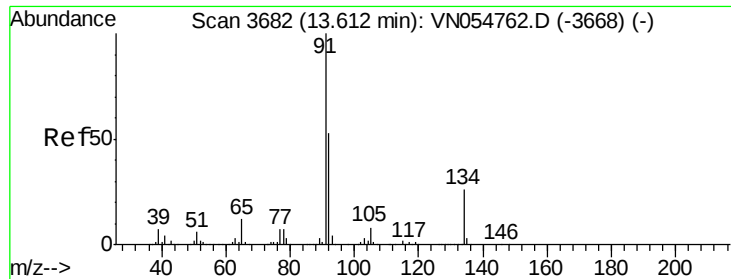
111 38.1 18.1 54.1

148 63.5 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 53.255 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

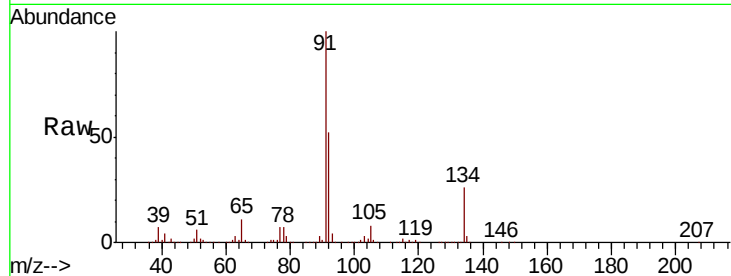
Tot Ion: 91 Resp: 891625

Ion Ratio Lower Upper

91 100

92 51.9 26.2 78.6

134 25.5 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VN054841.D (-3682) (-)

Ion 92.00 (91.70 to 92.70): VN054841.D (-3682) (-)

Ion 134.00 (133.70 to 134.70): VN054841.D (-3682) (-)

13.62

600000

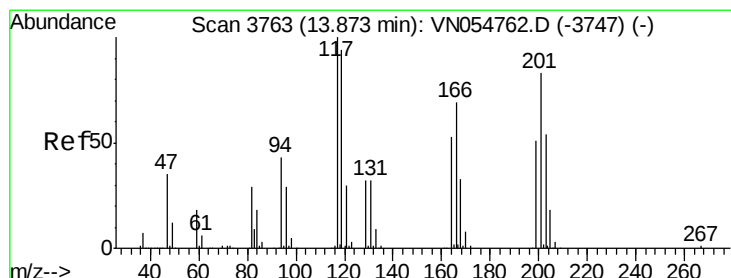
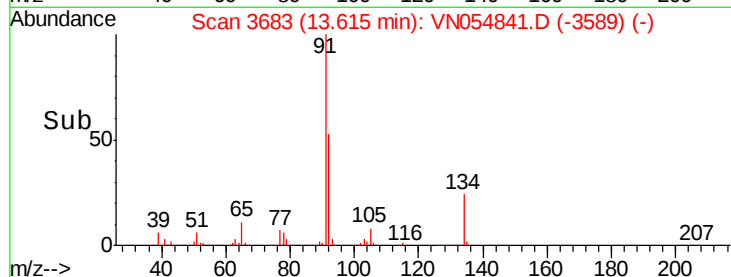
400000

200000

0

13.55 13.60 13.65 13.70

Time-->



#90

Hexachloroethane

Concen: 50.208 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054841.D

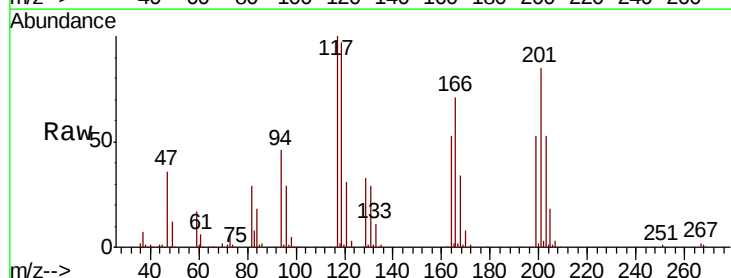
Acq: 31 Mar 2019 10:43

Tgt Ion: 117 Resp: 174927

Ion Ratio Lower Upper

117 100

201 83.8 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): VN054841.D (-3763) (-)

Ion 200.70 (200.40 to 201.40): VN054841.D (-3763) (-)

120000

100000

80000

60000

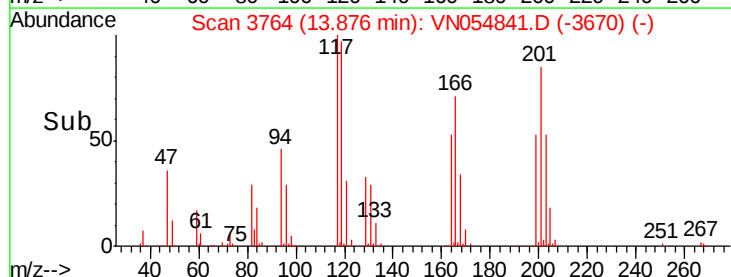
40000

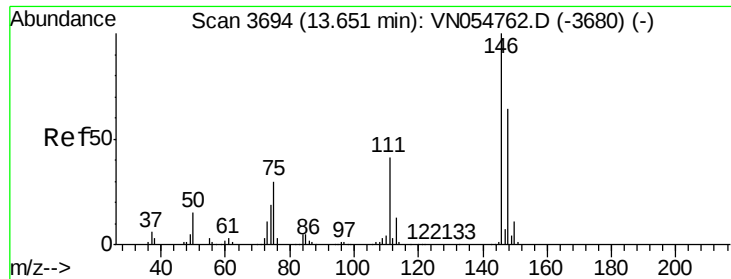
20000

0

13.80 13.85 13.90 13.95

Time-->





#91

1,2-Dichlorobenzene

Concen: 49.784 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

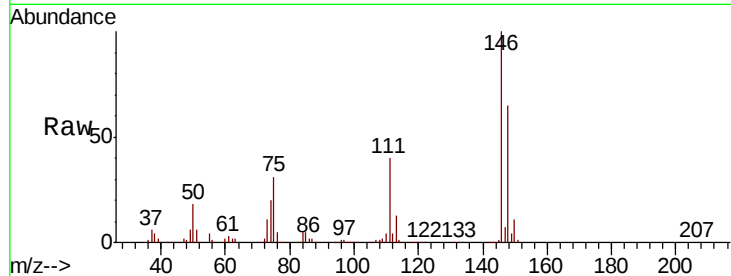
Tot Ion:146 Resp: 529918

Ion Ratio Lower Upper

146 100

111 39.9 19.1 57.3

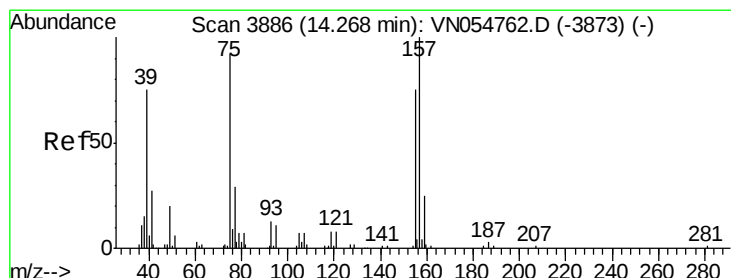
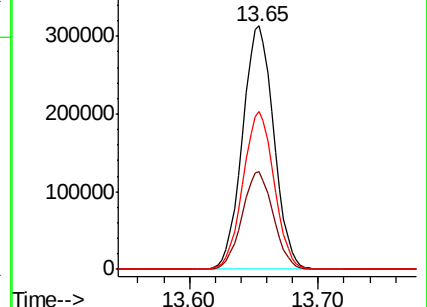
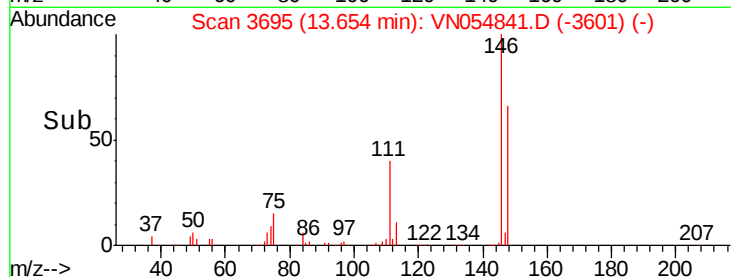
148 64.4 32.4 97.0



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: 53.435 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

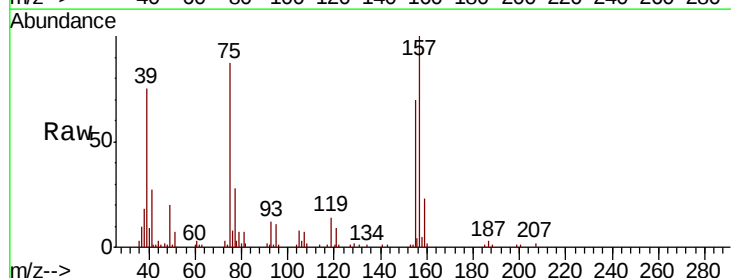
Tgt Ion: 75 Resp: 47681

Ion Ratio Lower Upper

75 100

155 82.5 50.1 150.3

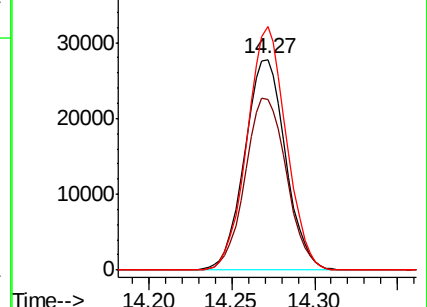
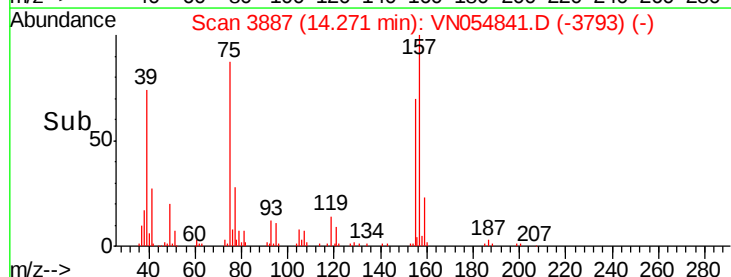
157 110.2 63.1 189.3

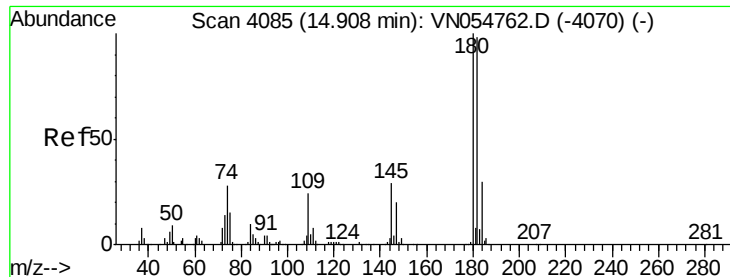


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

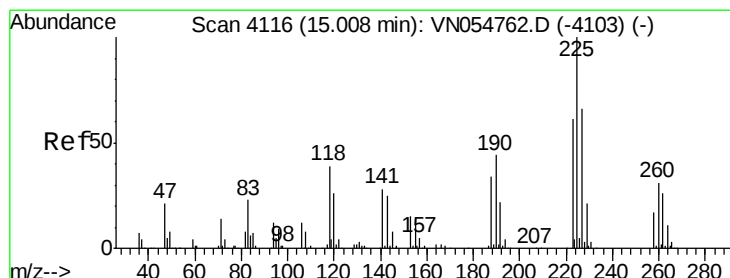
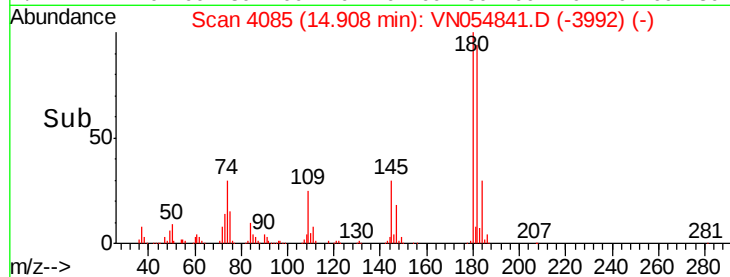
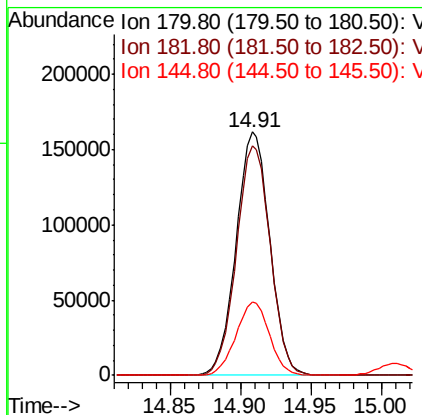
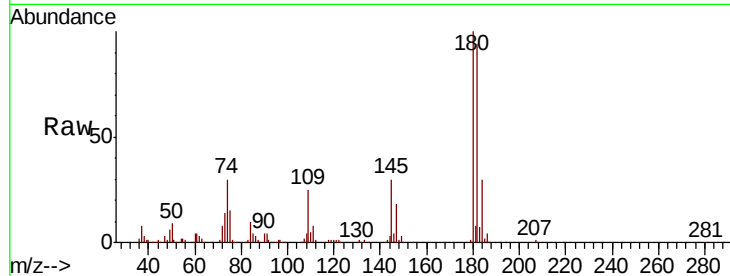




#93
 1,2,4-Trichlorobenzene
 Concen: 52.635 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

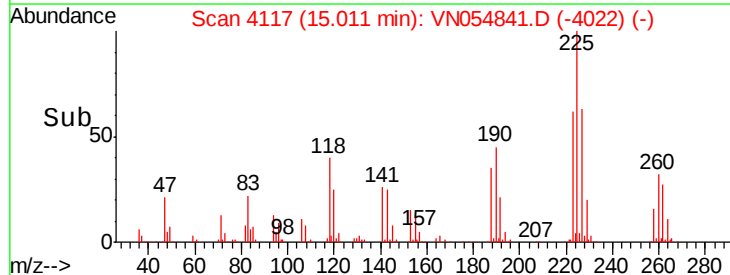
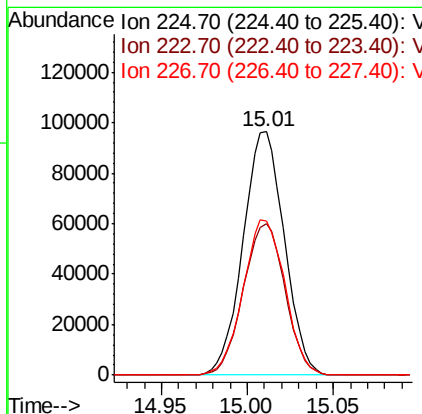
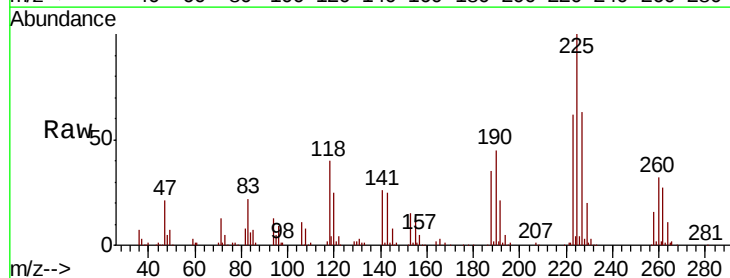
Instrument :
 MSVOA_N
 ClientSampled :

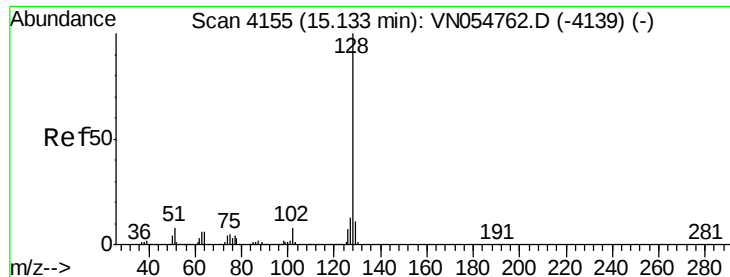
Tot Ion:180 Resp: 270110
 Ion Ratio Lower Upper
 180 100
 182 94.8 48.0 144.2
 145 29.9 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 52.979 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054841.D
 Acq: 31 Mar 2019 10:43

Tgt Ion:225 Resp: 160632
 Ion Ratio Lower Upper
 225 100
 223 62.8 31.1 93.5
 227 64.8 31.9 95.9





#95

Naphthalene

Concen: 51.599 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

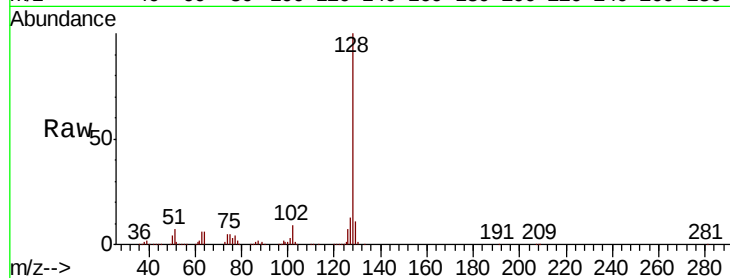
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 593877

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.7	8.7	13.1

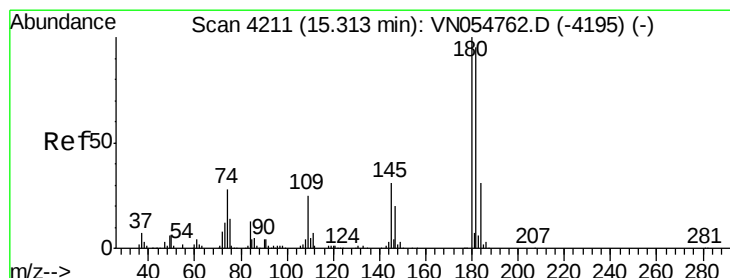
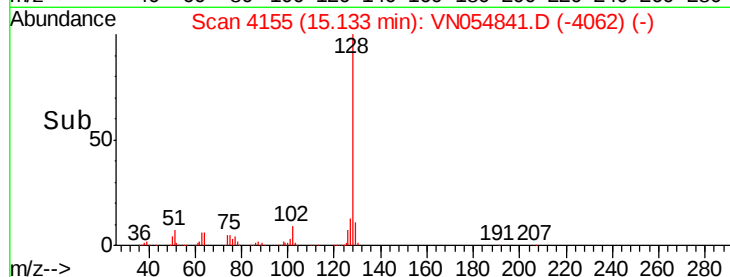
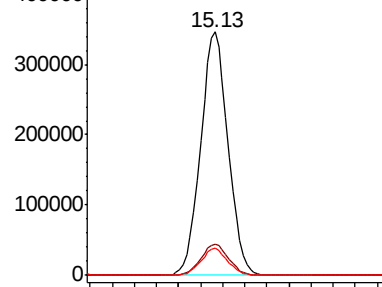


Abundance

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: 51.180 ug/l

RT: 15.31 min Scan# 4211

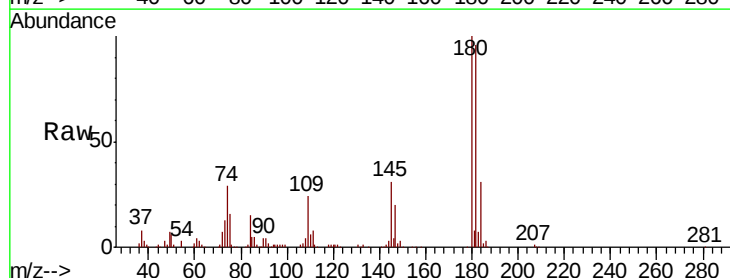
Delta R.T. 0.00 min

Lab File: VN054841.D

Acq: 31 Mar 2019 10:43

Tgt Ion:180 Resp: 265251

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.5	142.6
145	30.8	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

