

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054880.D
 Acq On : 1 Apr 2019 17:42
 Operator : JC/SP
 Sample : VN0401WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/2/2019 10:51:27 AM

Quant Time: Apr 02 06:42:48 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	7.67	168	373582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	616666	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	540736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	223811	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	266140	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
35) Dibromofluoromethane	7.59	113	207390	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
50) Toluene-d8	10.09	98	778263	50.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.84%	
62) 4-Bromofluorobenzene	12.40	95	253874	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	72961	19.308	ug/l	99
3) Chloromethane	2.06	50	110646	21.177	ug/l	94
4) Vinyl Chloride	2.19	62	94472	20.134	ug/l	99
5) Bromomethane	2.58	94	53405	20.378	ug/l	95
6) Chloroethane	2.71	64	55194	21.066	ug/l	95
7) Trichlorofluoromethane	3.03	101	124255	21.540	ug/l	99
8) Diethyl Ether	3.41	74	42067	22.647	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.75	101	62571	20.605	ug/l	93
10) Methyl Iodide	3.95	142	83224	20.020	ug/l #	88
11) Tert butyl alcohol	4.82	59	28671	109.271	ug/l #	86
12) 1,1-Dichloroethene	3.73	96	64949	22.117	ug/l #	77
13) Acrolein	3.61	56	33904	144.539	ug/l	100
14) Allyl chloride	4.32	41	145850	20.164	ug/l #	91
15) Acrylonitrile	5.00	53	163901	112.383	ug/l	99
16) Acetone	3.82	43	113088	94.169	ug/l #	83
17) Carbon Disulfide	4.04	76	179879	18.886	ug/l	98
18) Methyl Acetate	4.33	43	74750	23.409	ug/l	90
19) Methyl tert-butyl Ether	5.05	73	220930	21.508	ug/l	93
20) Methylene Chloride	4.55	84	90448	21.352	ug/l #	79
21) trans-1,2-Dichloroethene	5.04	96	80375	20.838	ug/l	89
22) Diisopropyl ether	5.96	45	314738	22.000	ug/l #	94
23) Vinyl Acetate	5.90	43	1073398	107.818	ug/l #	92
24) 1,1-Dichloroethane	5.85	63	166594	21.830	ug/l	97
25) 2-Butanone	6.85	43	191695	107.987	ug/l	89
26) 2,2-Dichloropropane	6.83	77	101256	18.931	ug/l	77
27) cis-1,2-Dichloroethene	6.83	96	93927	21.556	ug/l	89
28) Bromochloromethane	7.20	49	82465	21.610	ug/l #	70
29) Tetrahydrofuran	7.22	42	132761	107.678	ug/l #	85
30) Chloroform	7.37	83	159443	21.911	ug/l	97
31) Cyclohexane	7.65	56	151558	20.584	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	132364	21.949	ug/l	95
36) 1,1-Dichloropropene	7.79	75	115460	20.094	ug/l	96
37) Ethyl Acetate	6.94	43	88770	21.067	ug/l	95
38) Carbon Tetrachloride	7.77	117	111051	19.898	ug/l	95

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	124127	19.649	ug/l #	86
40) Benzene	8.04	78	351211	21.361	ug/l	97
41) Methacrylonitrile	7.18	41	48805	20.618	ug/l	93
42) 1,2-Dichloroethane	8.12	62	127084	21.647	ug/l	98
43) Isopropyl Acetate	8.17	43	148353	21.667	ug/l #	94
44) Trichloroethene	8.84	130	87878	20.589	ug/l	94
45) 1,2-Dichloropropane	9.12	63	101012	21.546	ug/l	100
46) Dibromomethane	9.21	93	56779	21.529	ug/l	89
47) Bromodichloromethane	9.40	83	116891	21.326	ug/l	99
48) Methyl methacrylate	9.20	41	75966	20.468	ug/l #	86
49) 1,4-Dioxane	9.21	88	15724	426.979	ug/l #	78
51) 4-Methyl-2-Pentanone	9.99	43	423918	110.124	ug/l	92
52) Toluene	10.16	92	210281	21.493	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	105252	20.414	ug/l	94
54) cis-1,3-Dichloropropene	9.84	75	130071	21.119	ug/l #	88
55) 1,1,2-Trichloroethane	10.56	97	81827	22.493	ug/l	95
56) Ethyl methacrylate	10.43	69	97181	20.364	ug/l #	84
57) 1,3-Dichloropropane	10.71	76	137034	21.910	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	182227	95.329	ug/l	90
59) 2-Hexanone	10.75	43	258439	104.875	ug/l	90
60) Dibromochloromethane	10.90	129	77056	20.910	ug/l	97
61) 1,2-Dibromoethane	11.01	107	74720	21.492	ug/l	100
64) Tetrachloroethene	10.63	164	82263	19.825	ug/l	95
65) Chlorobenzene	11.43	112	216842	20.482	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	82188	20.740	ug/l	99
67) Ethyl Benzene	11.51	91	394933	20.672	ug/l	98
68) m/p-Xylenes	11.62	106	284710	40.270	ug/l	92
69) o-Xylene	11.95	106	140123	20.212	ug/l	93
70) Styrene	11.96	104	233594	21.073	ug/l	97
71) Bromoform	12.13	173	46237	19.917	ug/l #	97
73) Isopropylbenzene	12.25	105	378150	20.671	ug/l	99
74) N-amyl acetate	12.07	43	115342	20.238	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.50	83	95993	22.875	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	77726m	19.991	ug/l	
77) Bromobenzene	12.53	156	91009	20.613	ug/l	85
78) n-propylbenzene	12.59	91	413071	20.544	ug/l	95
79) 2-Chlorotoluene	12.67	91	257275	20.683	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	310474	20.684	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	16979	16.986	ug/l #	72
82) 4-Chlorotoluene	12.77	91	241275	19.970	ug/l	96
83) tert-Butylbenzene	12.99	119	263208	21.439	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	303362	21.214	ug/l	97
85) sec-Butylbenzene	13.17	105	342126	20.982	ug/l	97
86) p-Isopropyltoluene	13.29	119	293460	20.405	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	151686	20.521	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	145313	20.043	ug/l	98
89) n-Butylbenzene	13.61	91	218107	18.588	ug/l	98
90) Hexachloroethane	13.87	117	48824	19.995	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	153236	20.541	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	13520	21.619	ug/l	81

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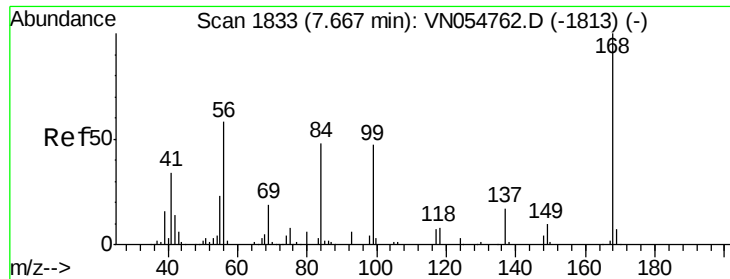
Manual Integrations
APPROVED

MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	61262	17.034	ug/l	98
94) Hexachlorobutadiene	15.01	225	46483	20.586	ug/l	99
95) Naphthalene	15.13	128	138705	17.195	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	66498	18.308	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0401WBSD01

Tot Ion:168 Resp: 373582

Ion Ratio Lower Upper

168 100

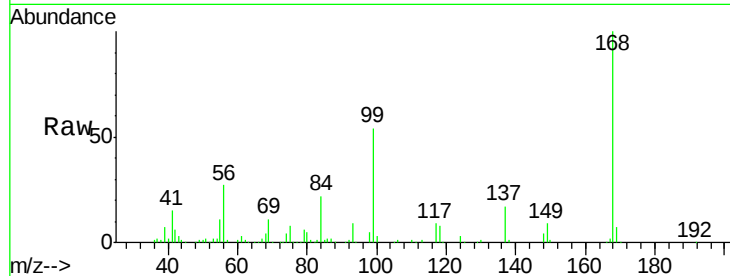
99 52.8 37.1 55.7

Manual Integrations

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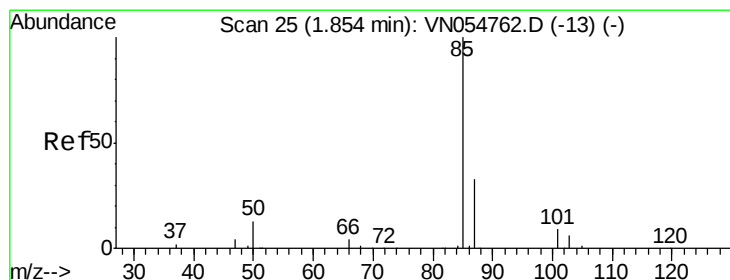
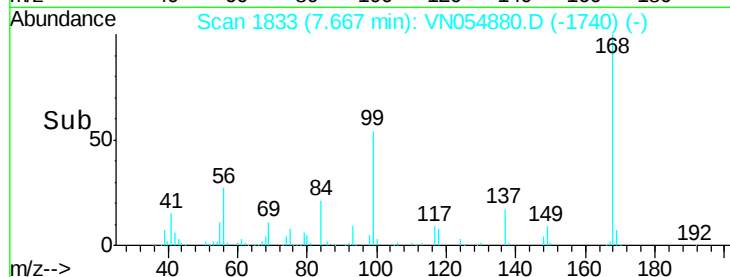
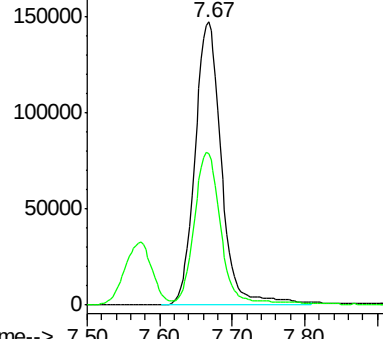
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 19.308 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054880.D

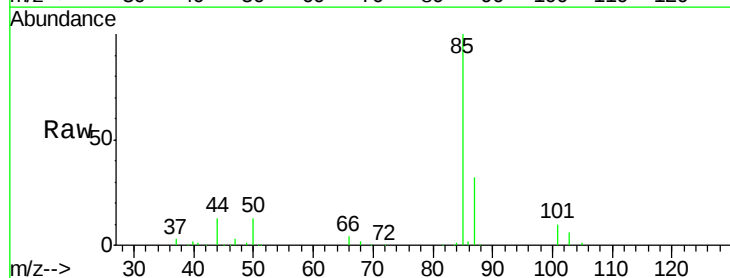
Acq: 1 Apr 2019 17:42

Tgt Ion: 85 Resp: 72961

Ion Ratio Lower Upper

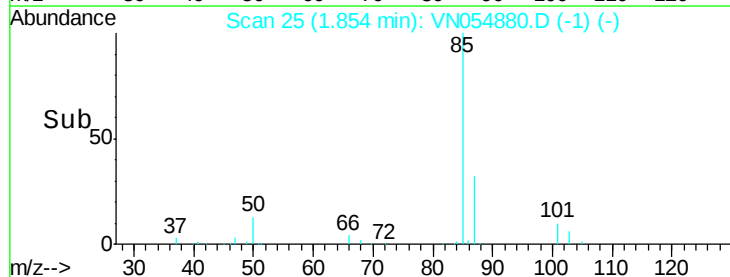
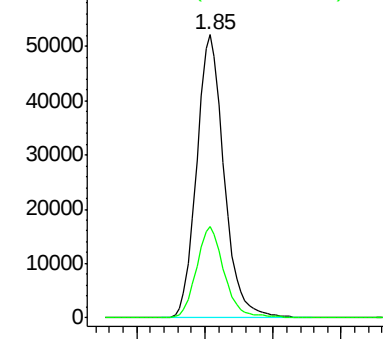
85 100

87 32.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 21.177 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0401WBSD01

Tot Ion: 50 Resp: 110646

Ion Ratio Lower Upper

50 100

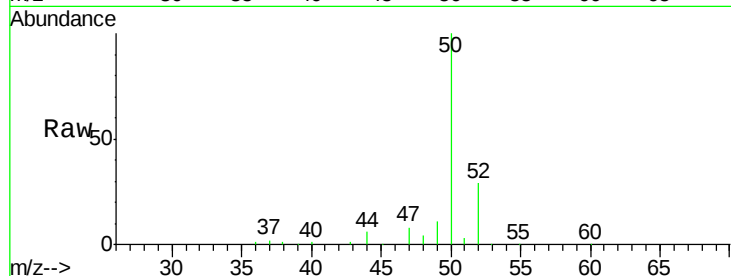
52 29.4 26.4 39.6

Manual Integrations

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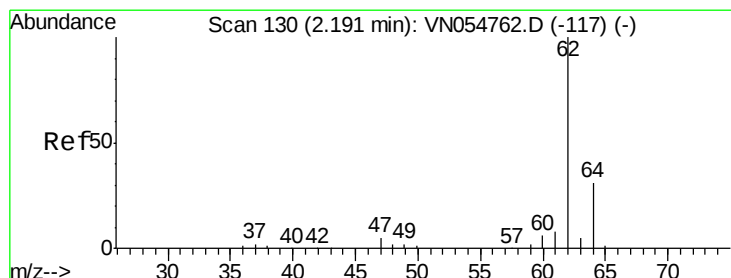
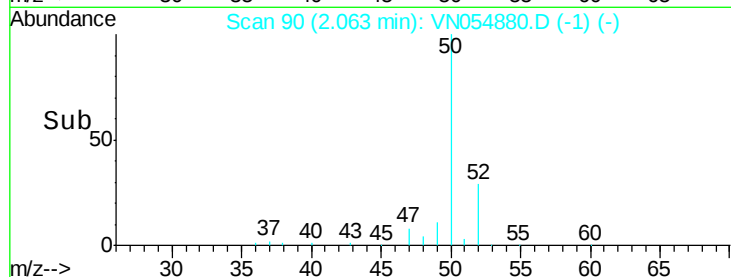
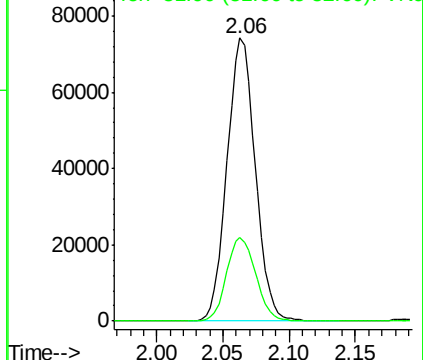
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 20.134 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054880.D

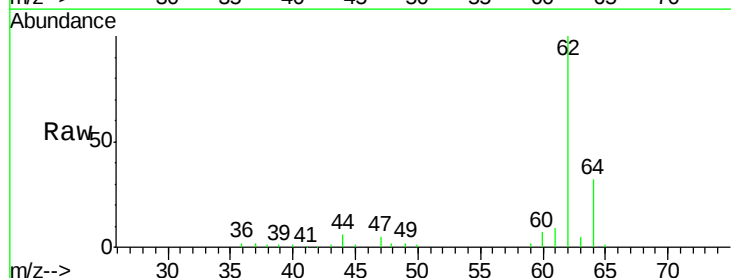
Acq: 1 Apr 2019 17:42

Tgt Ion: 62 Resp: 94472

Ion Ratio Lower Upper

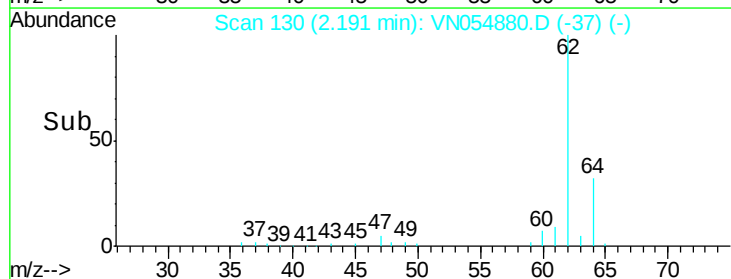
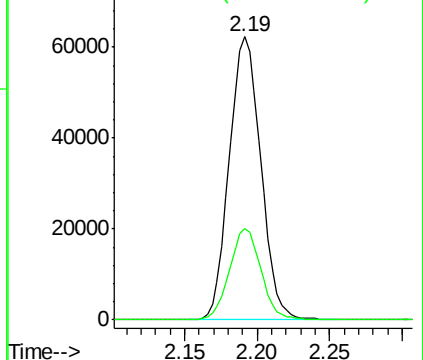
62 100

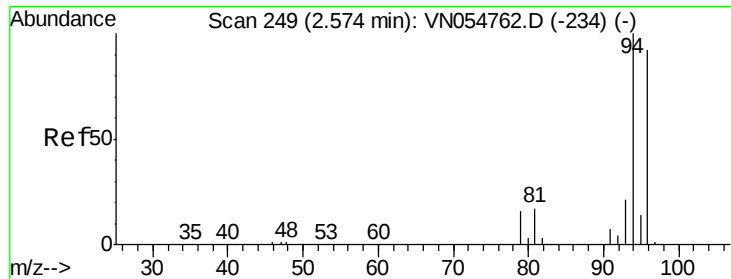
64 32.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.378 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0401WBSD01

Tot Ion: 94 Resp: 53405

Ion Ratio Lower Upper

94 100

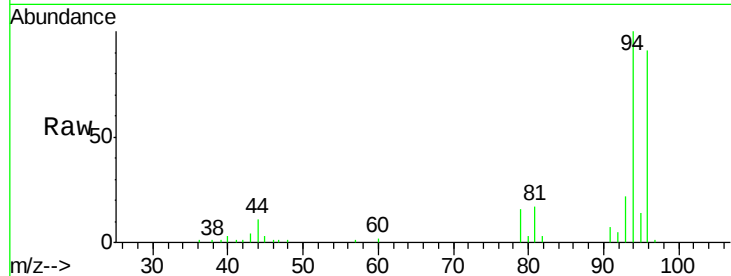
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Manual Integrations

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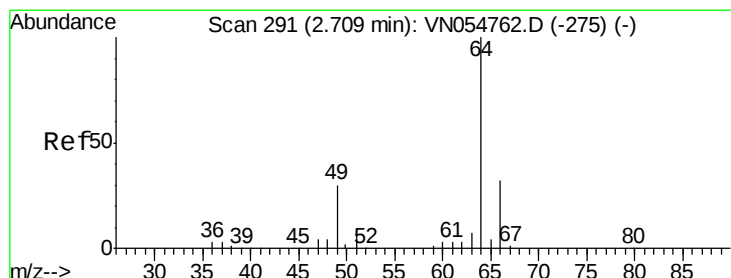
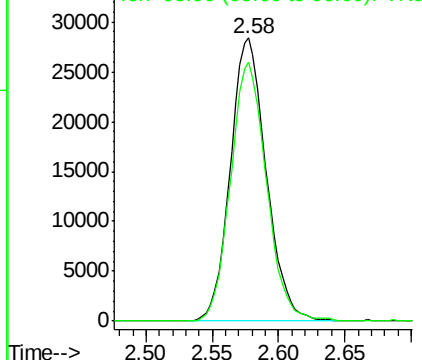
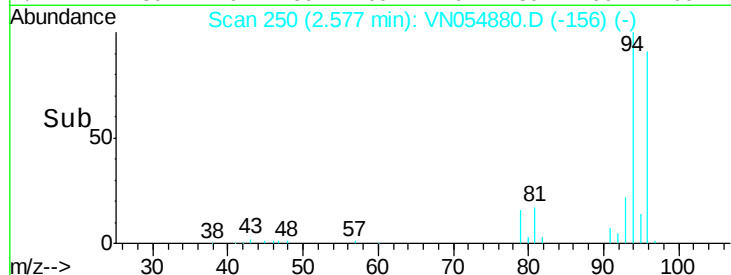
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Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054880.D (-156) (-)



#6

Chloroethane

Concen: 21.066 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054880.D

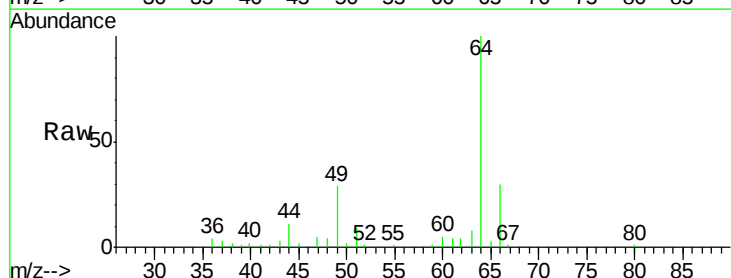
Acq: 1 Apr 2019 17:42

Tgt Ion: 64 Resp: 55194

Ion Ratio Lower Upper

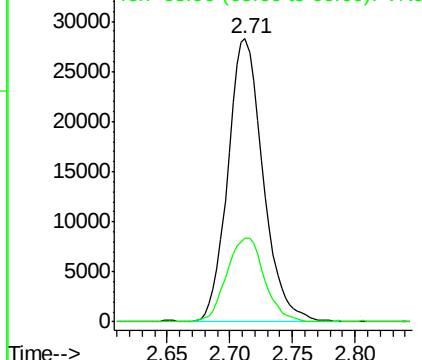
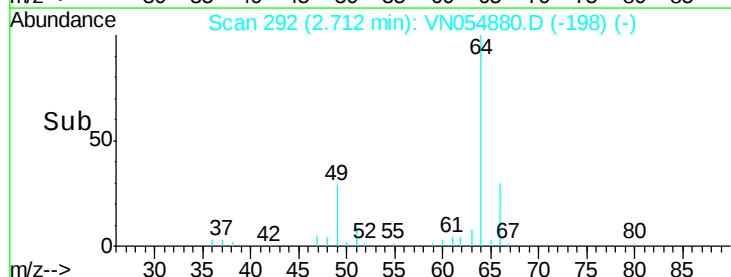
64 100

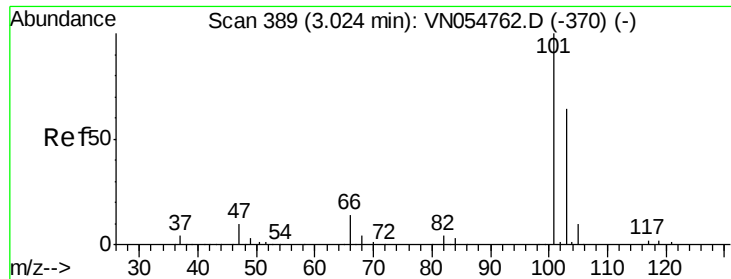
66 29.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN054762.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN054880.D (-198) (-)





#7

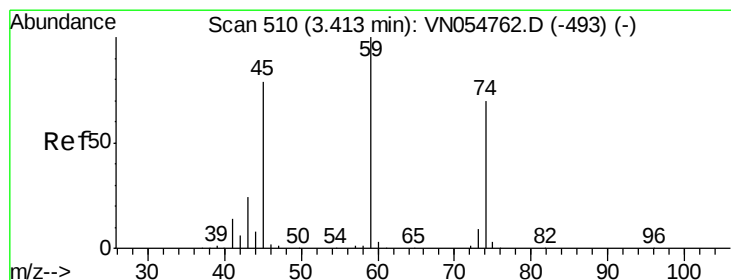
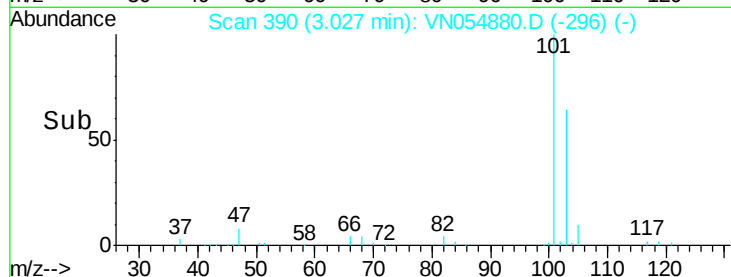
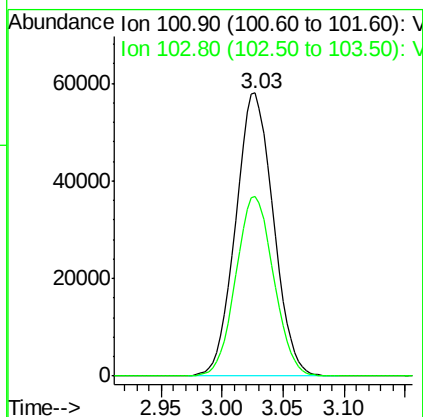
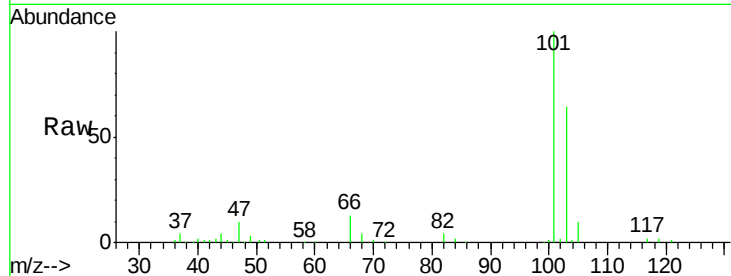
Trichlorofluoromethane
Concen: 21.540 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.4	77.2

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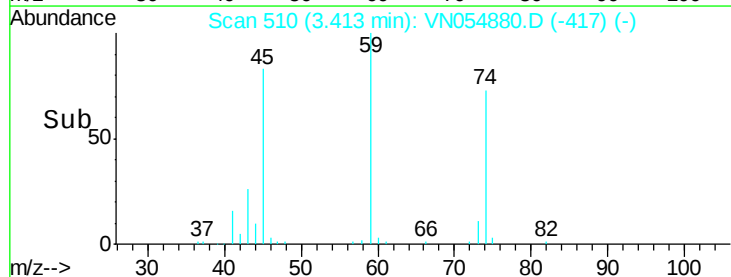
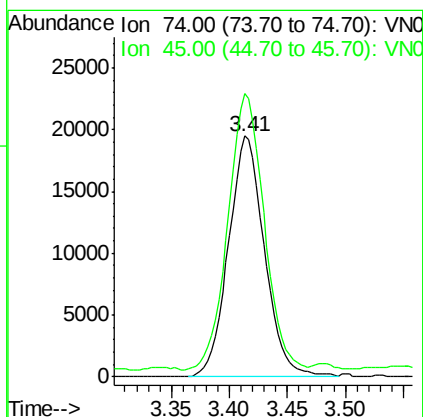
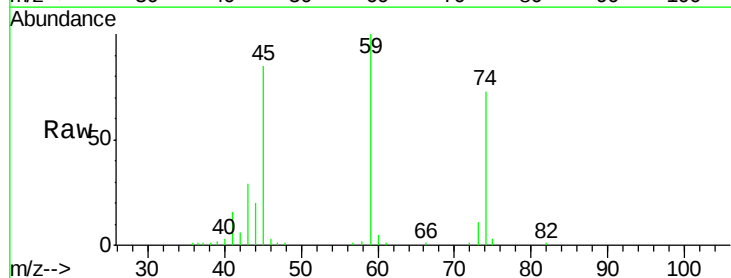
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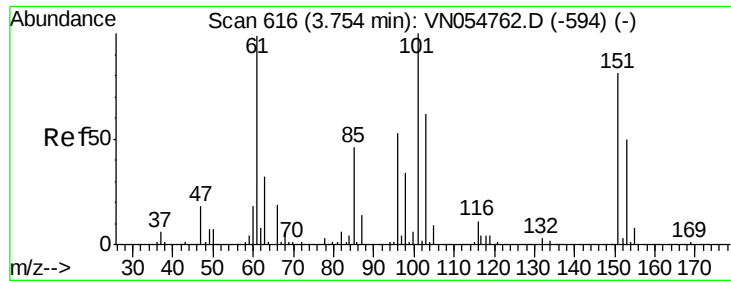


#8

Diethyl Ether
Concen: 22.647 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.4	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.605 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

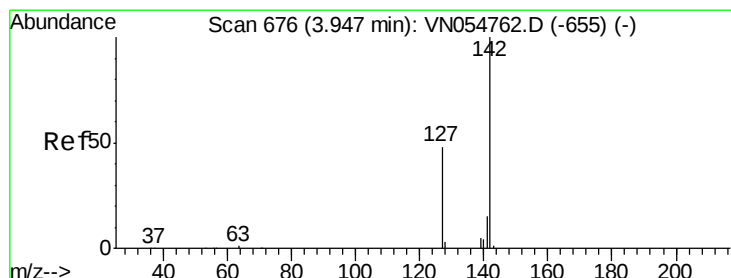
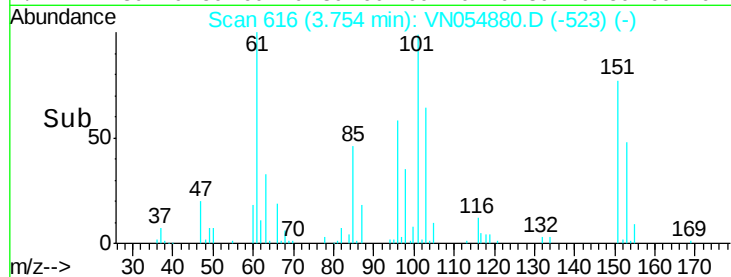
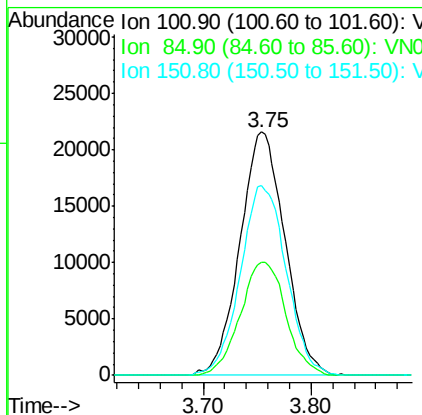
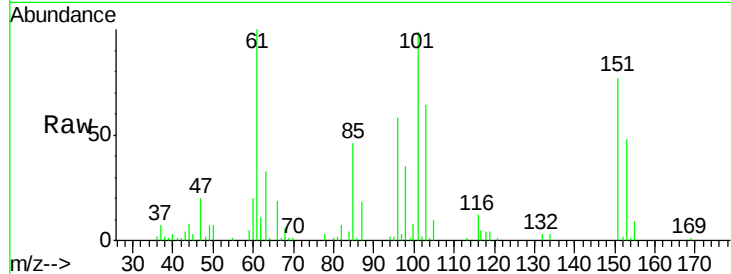
ClientSampleId :

VN0401WBSD01

Tot Ion:	101	Resp:	62571
Ion Ratio	Lower	Upper	
101	100		
85	46.9	32.4	48.6
151	79.6	68.2	102.2

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#10

Methyl Iodide

Concen: 20.020 ug/l

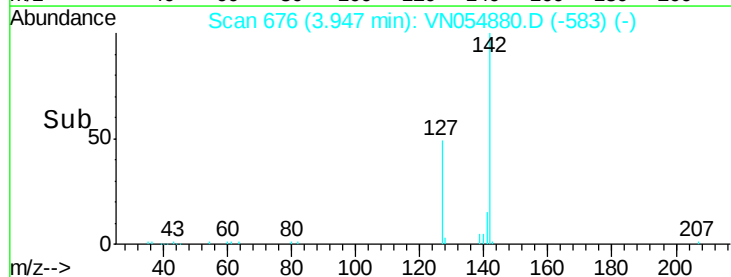
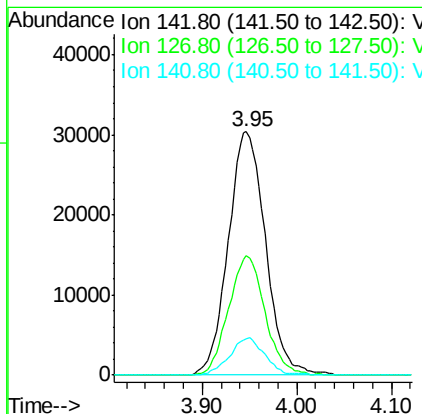
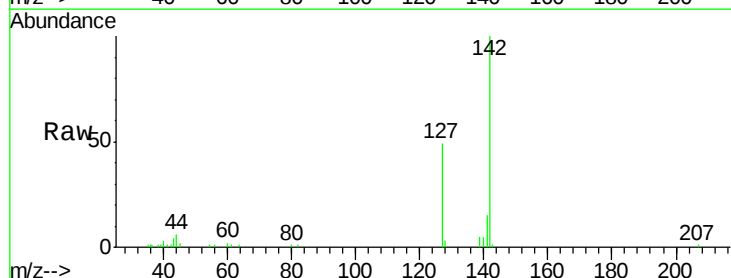
RT: 3.95 min Scan# 676

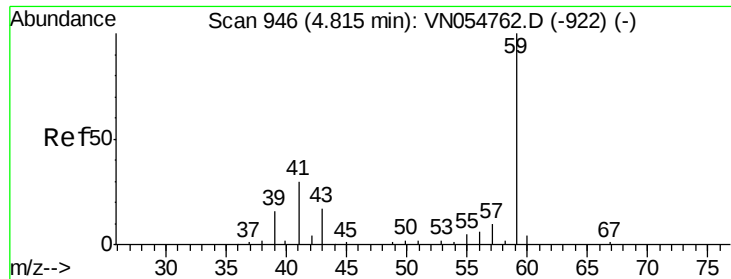
Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Tgt Ion:	142	Resp:	83224
Ion Ratio	Lower	Upper	
142	100		
127	47.6	30.3	45.5#
141	14.4	11.2	16.8





#11

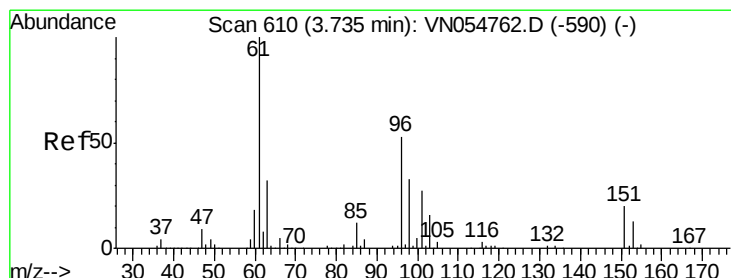
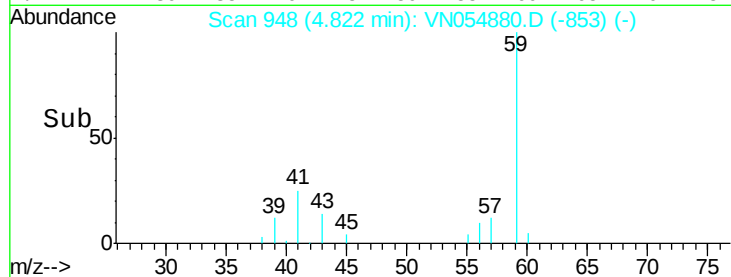
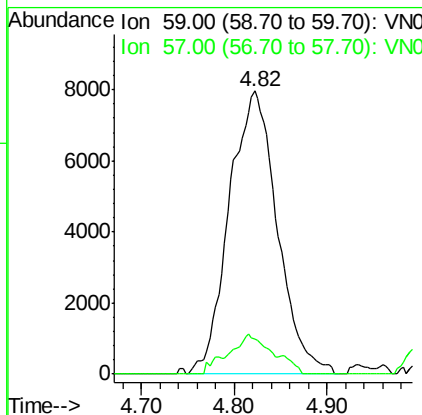
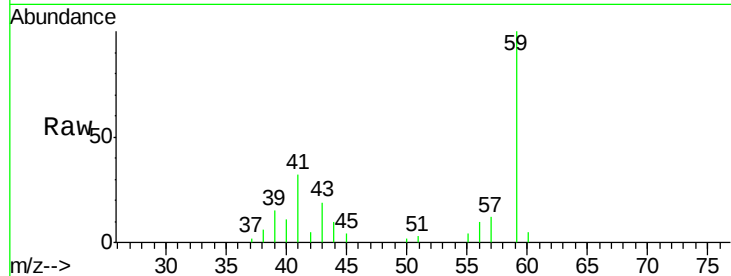
Tert butyl alcohol
 Concen: 109.271 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.01 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampled :
 VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.9	9.0	13.6#

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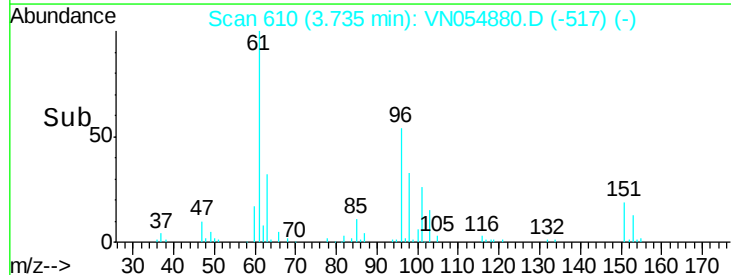
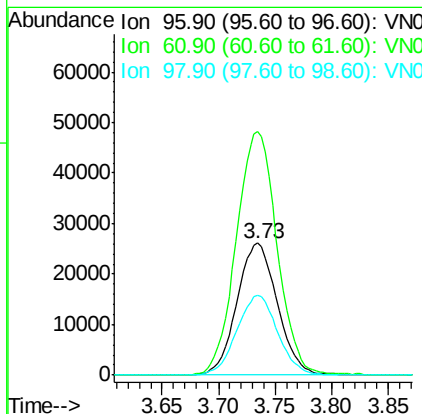
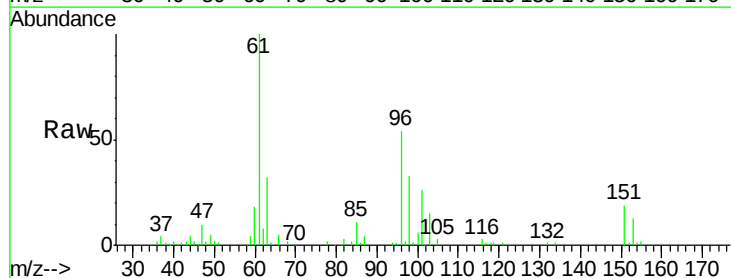
MMDadoda
 4/2/2019 10:51:27 AM

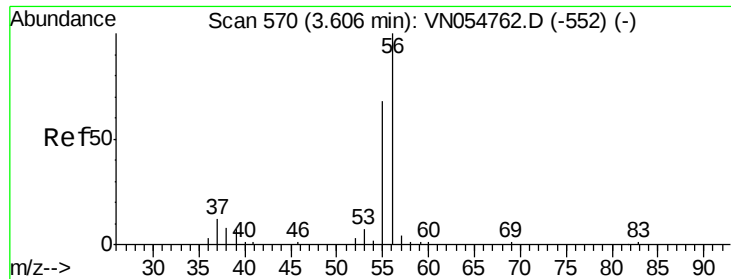


#12

1,1-Dichloroethene
 Concen: 22.117 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	183.8	116.5	174.7#
98	60.3	51.0	76.4





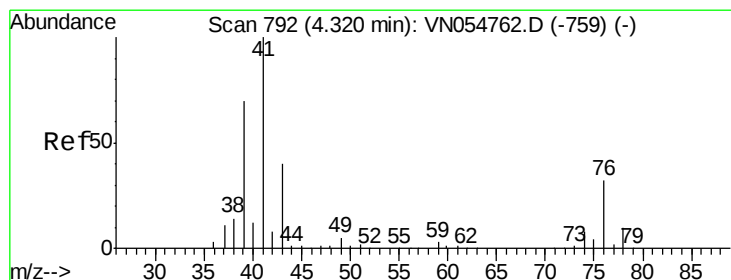
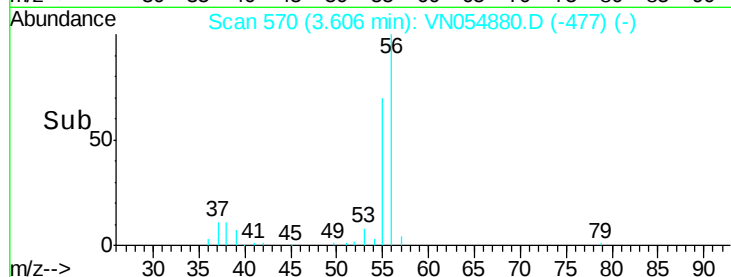
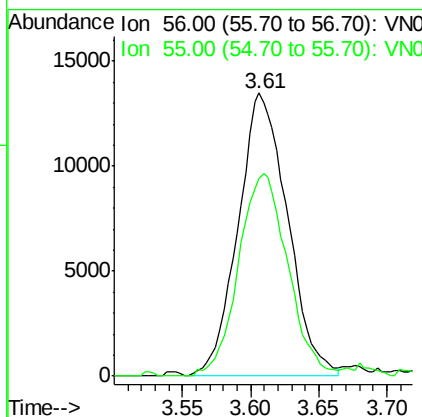
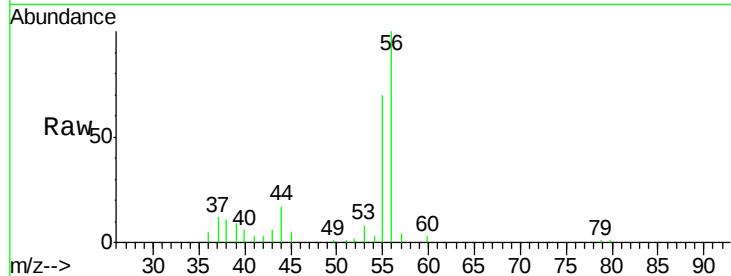
#13
Acrolein
Concen: 144.539 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion: 56 Resp: 33904
Ion Ratio Lower Upper
56 100
55 71.2 56.7 85.1

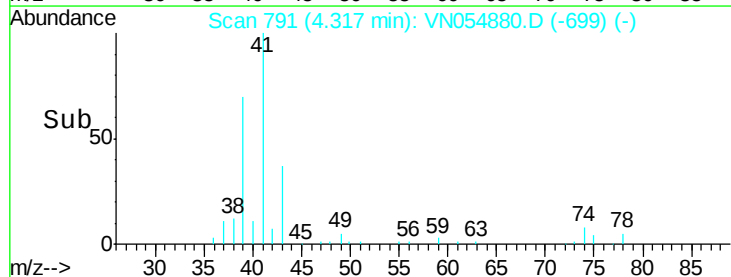
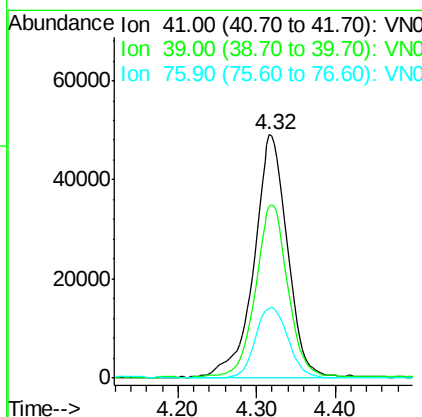
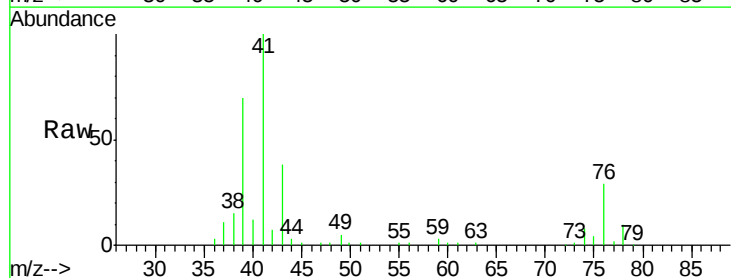
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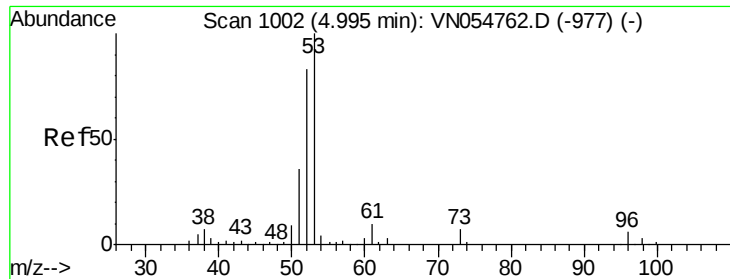
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#14
Allyl chloride
Concen: 20.164 ug/l
RT: 4.32 min Scan# 791
Delta R.T. -0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion: 41 Resp: 145850
Ion Ratio Lower Upper
41 100
39 69.1 58.2 87.4
76 28.9 31.7 47.5#





#15

Acrylonitrile

Concen: 112.383 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

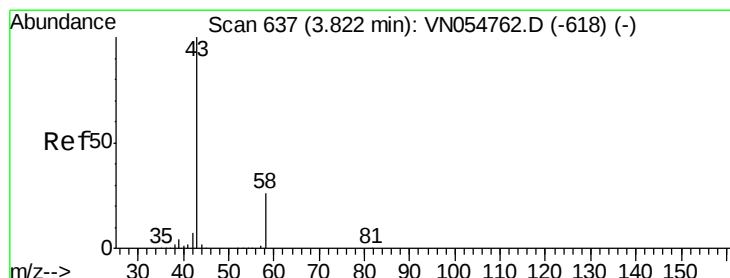
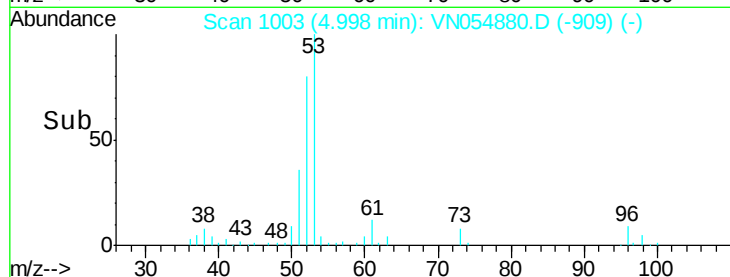
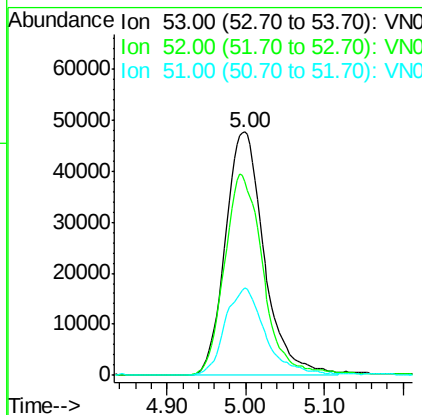
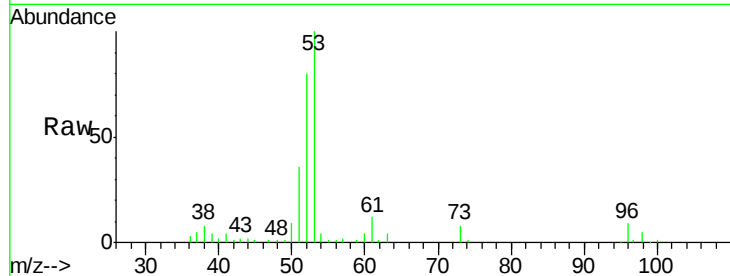
ClientSampleId :

VN0401WBSD01

Tot Ion:	53	Resp:	163901
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	36.5	29.6	44.4

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#16

Acetone

Concen: 94.169 ug/l

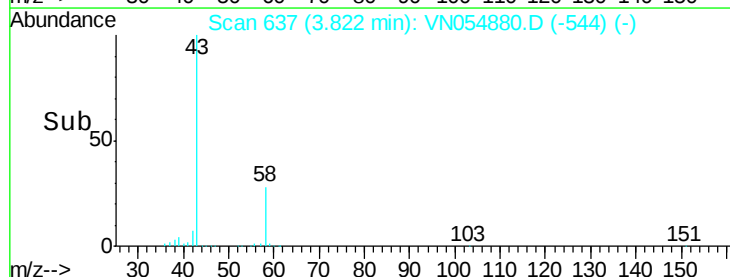
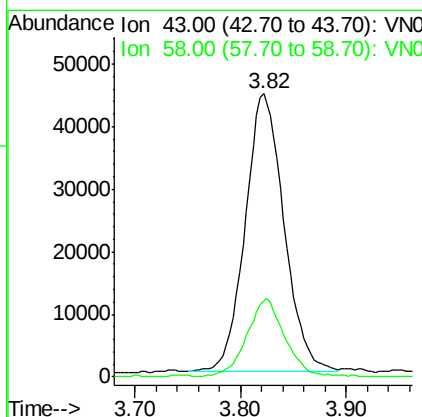
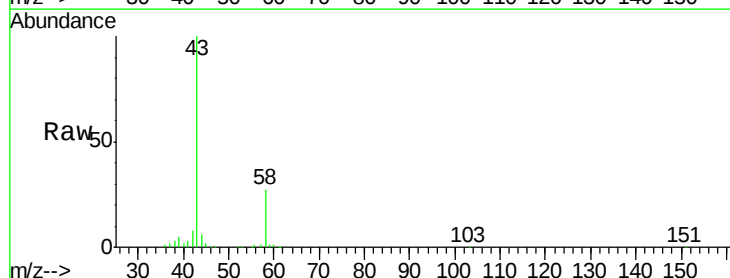
RT: 3.82 min Scan# 637

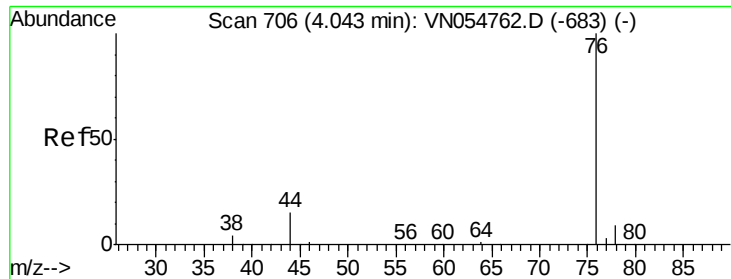
Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Tgt Ion:	43	Resp:	113088
Ion	Ratio	Lower	Upper
43	100		
58	27.2	29.9	44.9#





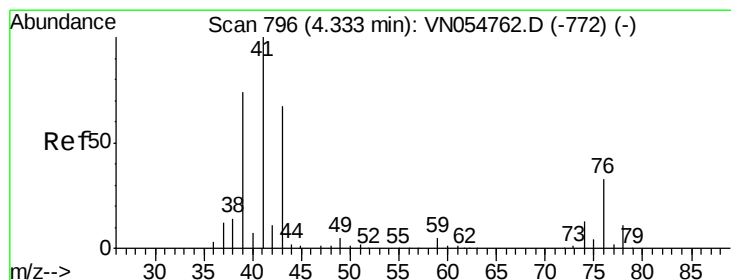
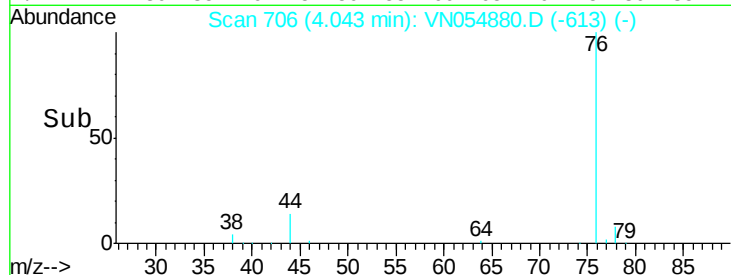
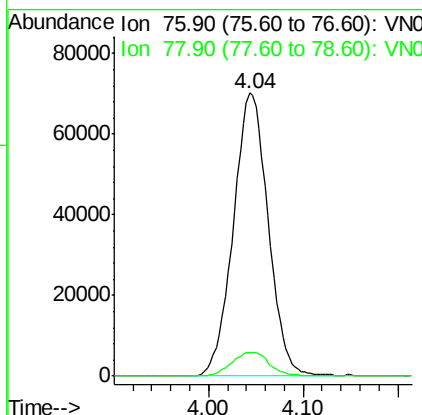
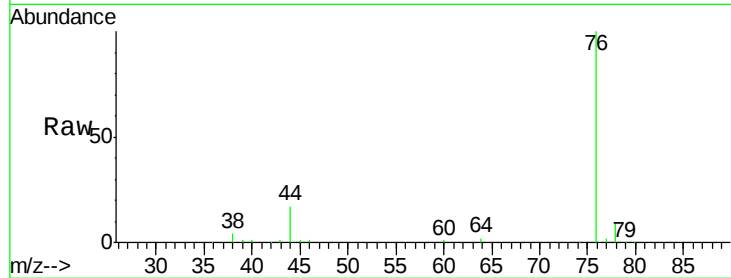
#17
Carbon Disulfide
Concen: 18.886 ug/l
RT: 4.04 min Scan# 706
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0401WBSD01

Tot Ion: 76 Resp: 179879
Ion Ratio Lower Upper
76 100
78 8.5 7.5 11.3

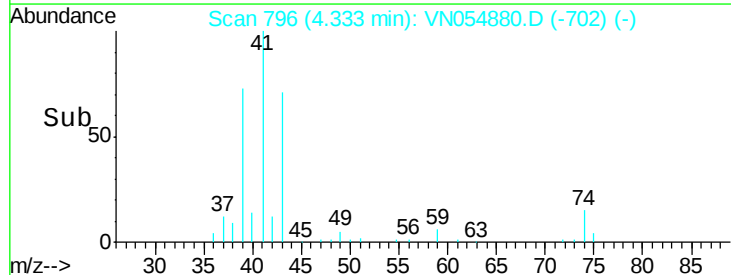
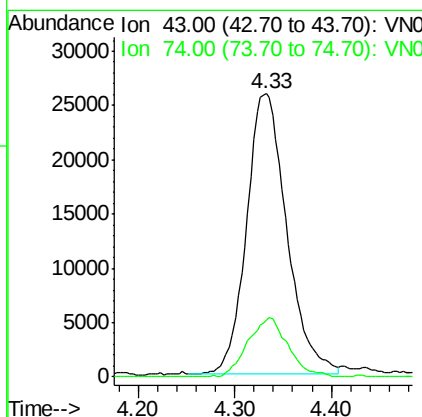
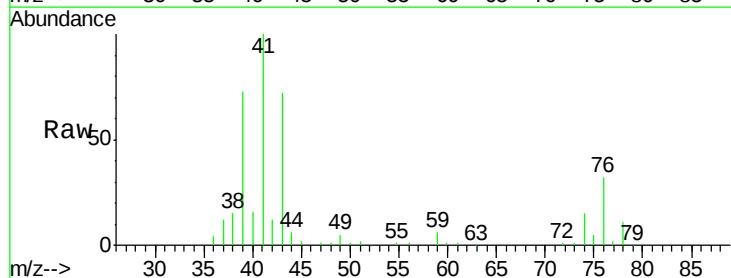
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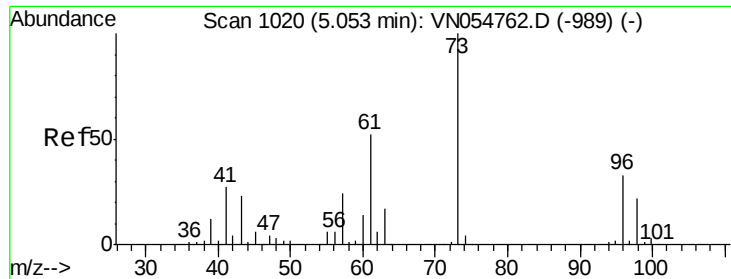
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#18
Methyl Acetate
Concen: 23.409 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion: 43 Resp: 74750
Ion Ratio Lower Upper
43 100
74 21.0 20.8 31.2





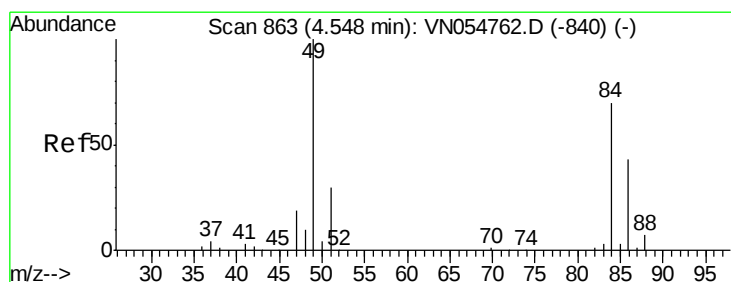
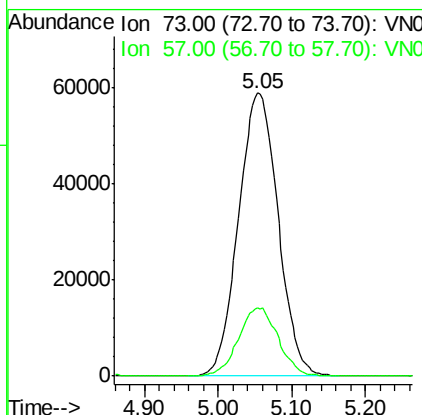
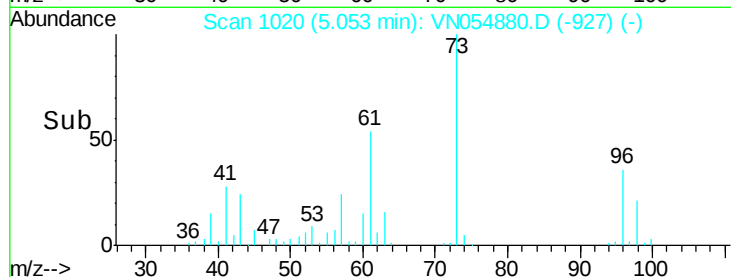
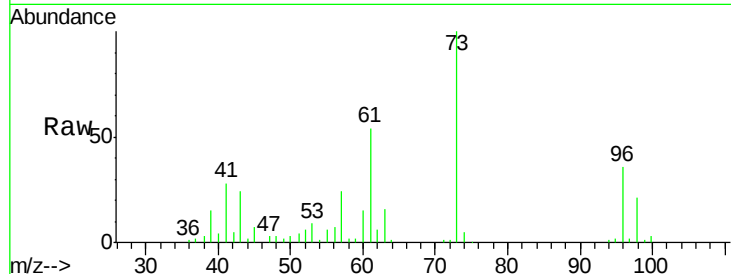
#19
Methvl tert-butvl Ether
Concen: 21.508 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion: 73 Resp: 220930
Ion Ratio Lower Upper
73 100
57 24.1 16.8 25.2

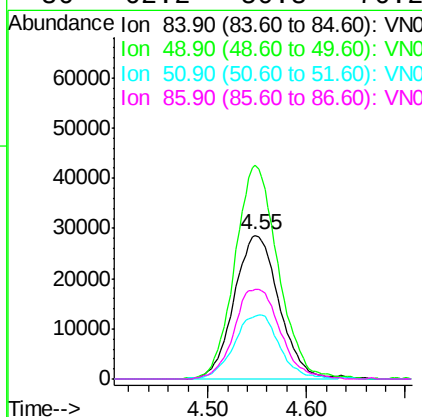
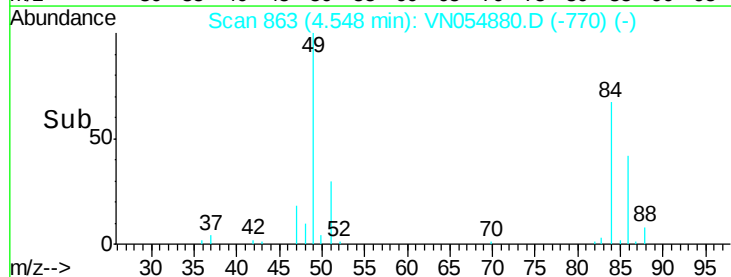
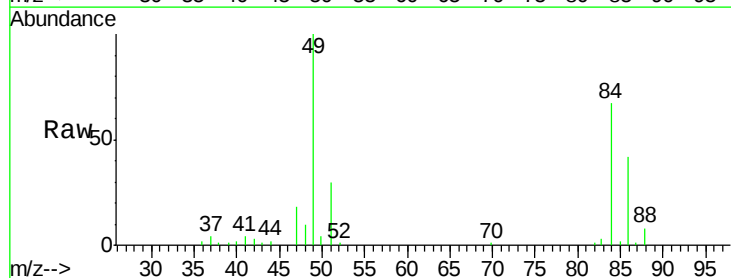
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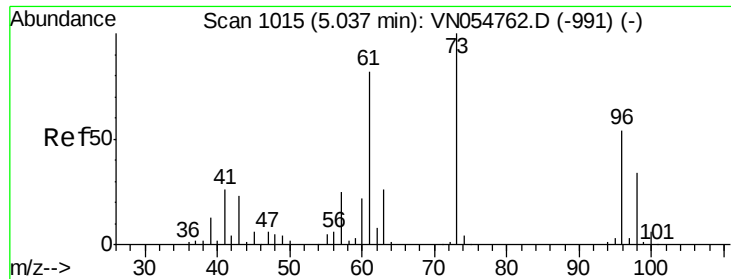
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#20
Methylene Chloride
Concen: 21.352 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion: 84 Resp: 90448
Ion Ratio Lower Upper
84 100
49 147.8 89.7 134.5#
51 43.3 28.2 42.4#
86 62.2 50.8 76.2





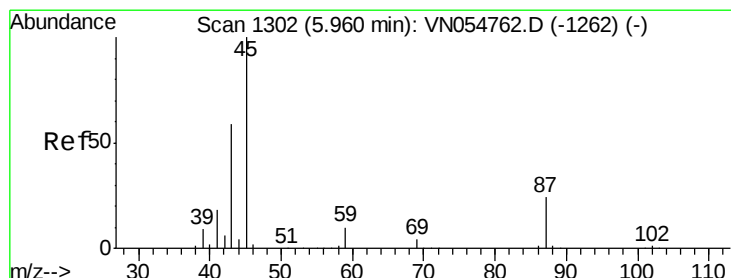
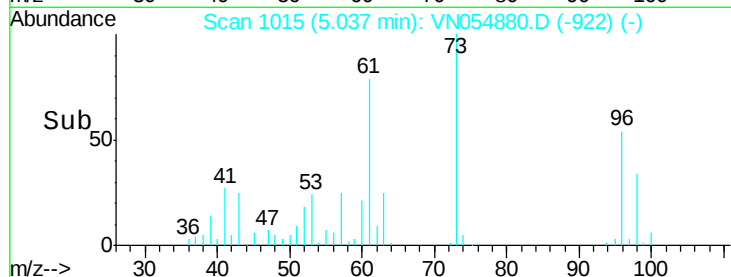
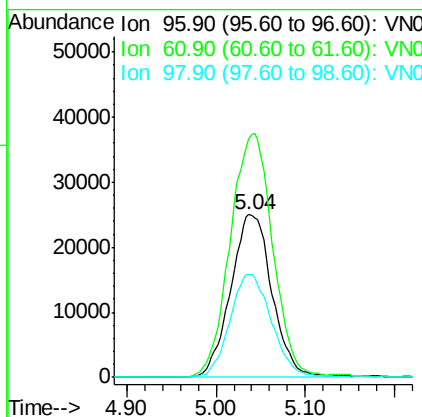
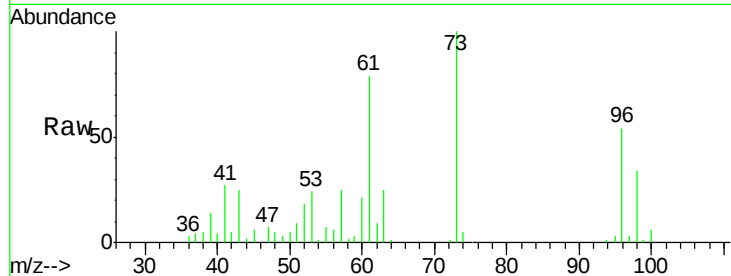
#21
trans-1,2-Dichloroethene
Concen: 20.838 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.7	102.8	154.2
98	63.5	50.0	75.0

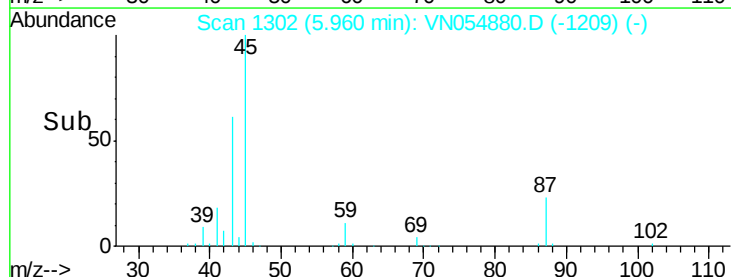
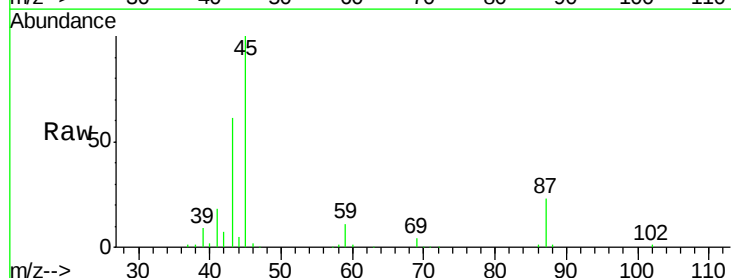
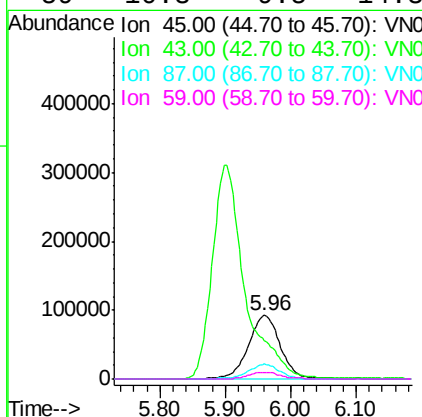
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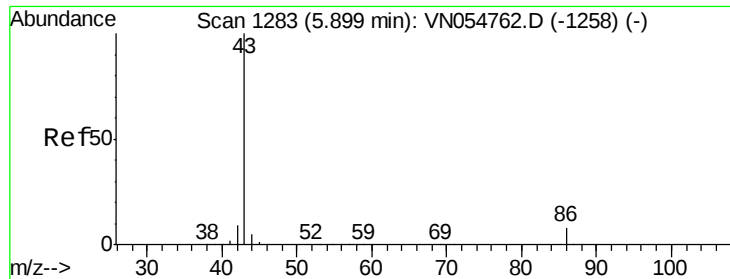
MMDadoda
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#22
Diisopropyl ether
Concen: 22.000 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.7	48.2	72.2
87	23.0	24.9	37.3
59	10.3	9.5	14.3





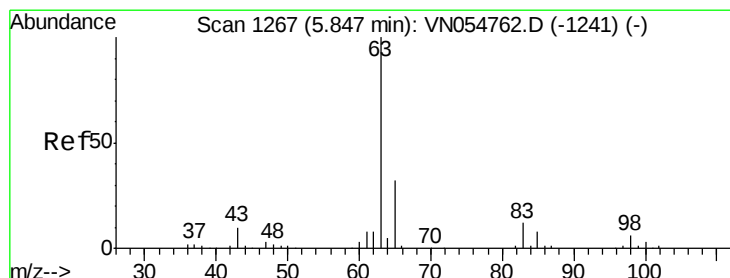
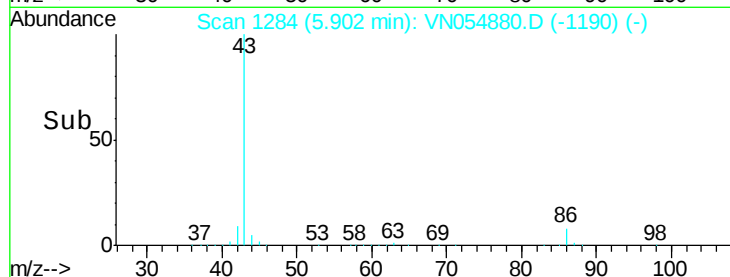
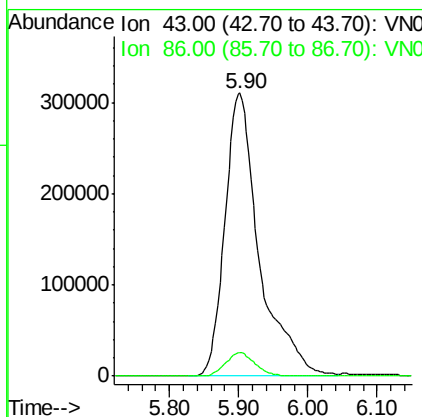
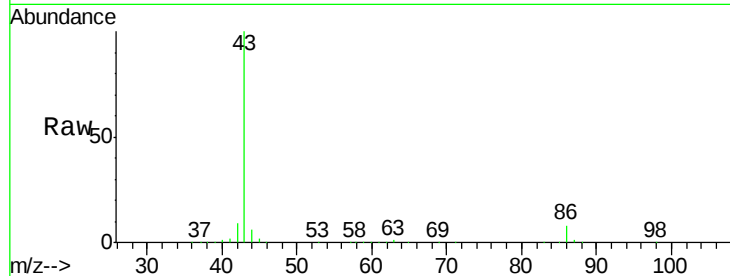
#23
 Vinyl Acetate
 Concen: 107.818 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0401WBSD01

Tot Ion: 43 Resp: 1073398
 Ion Ratio Lower Upper
 43 100
 86 8.4 9.1 13.7#

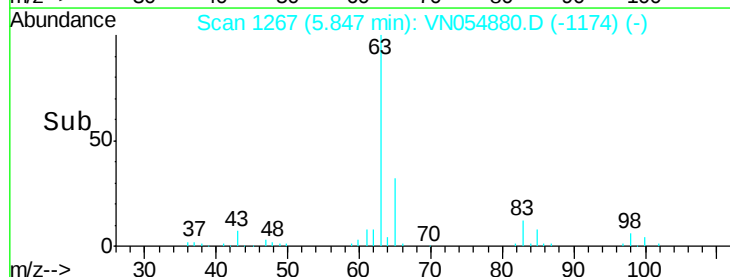
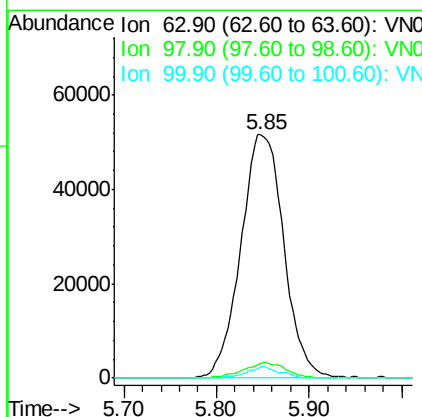
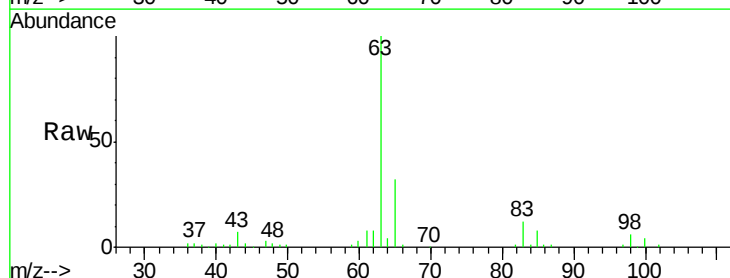
Manual Integrations
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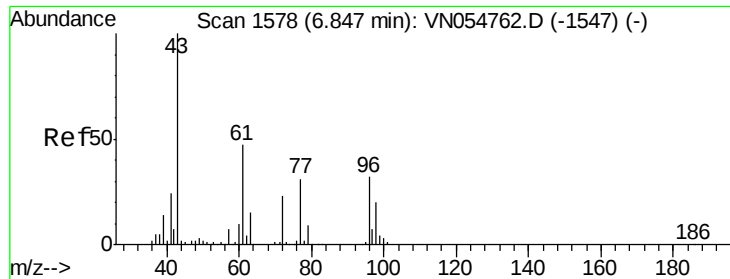
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#24
 1,1-Dichloroethane
 Concen: 21.830 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion: 63 Resp: 166594
 Ion Ratio Lower Upper
 63 100
 98 5.9 3.5 10.5
 100 4.4 2.0 6.0





#25

2-Butanone

Concen: 107.987 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 43 Resp: 191695

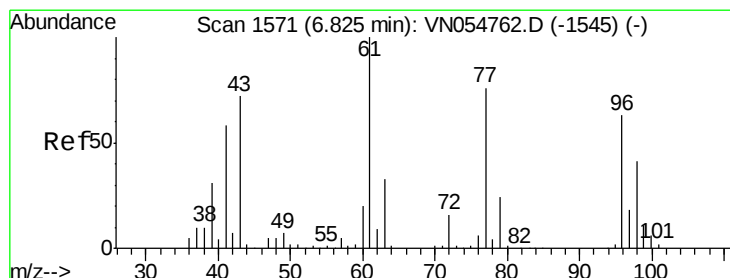
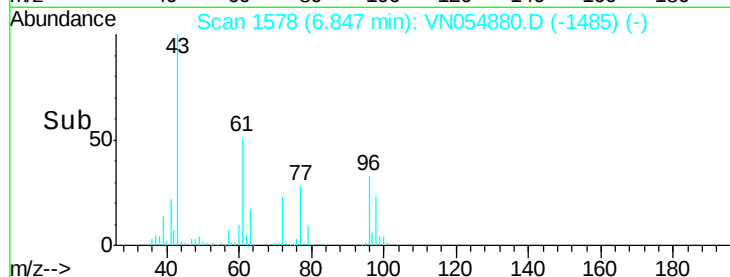
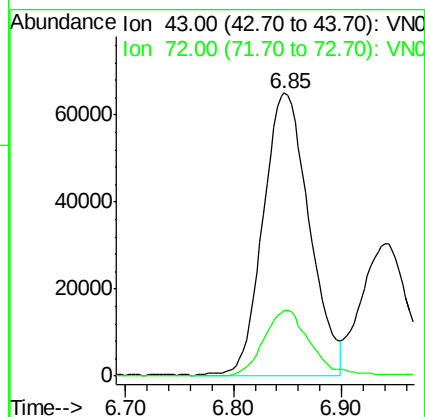
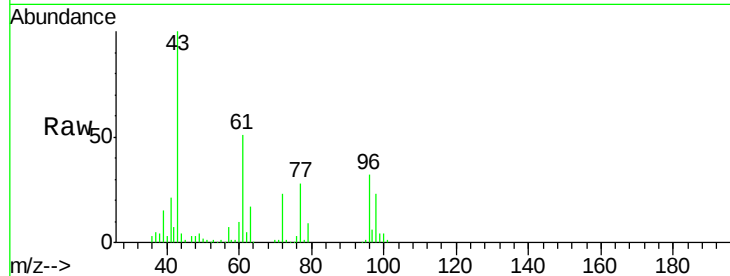
Ion Ratio Lower Upper

43 100

72 23.1 23.0 34.6

Manual Integrations
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MMDadoda
4/2/2019 10:51:27 AM



#26

2,2-Dichloropropane

Concen: 18.931 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054880.D

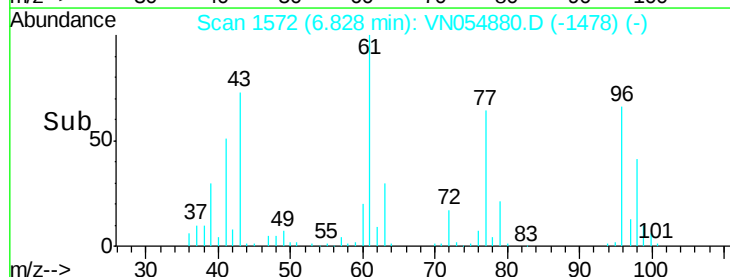
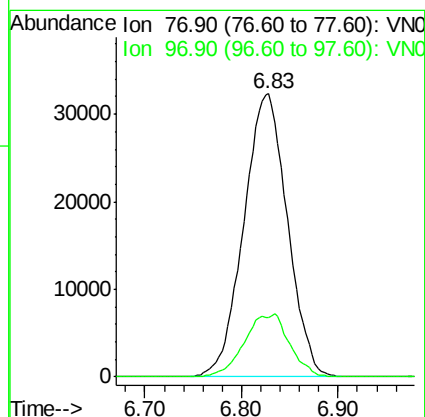
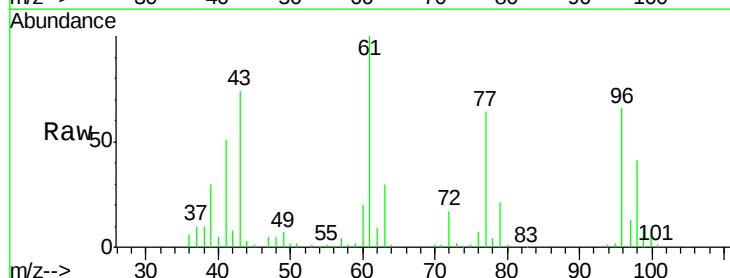
Acq: 1 Apr 2019 17:42

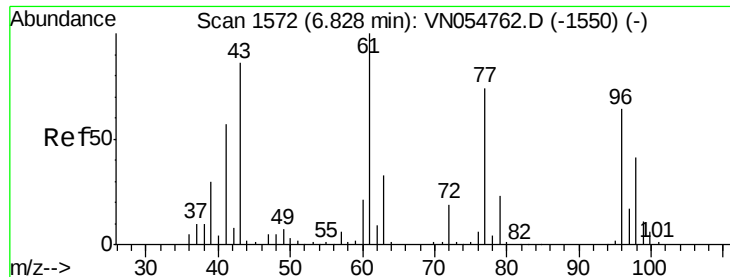
Tgt Ion: 77 Resp: 101256

Ion Ratio Lower Upper

77 100

97 12.8 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.556 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

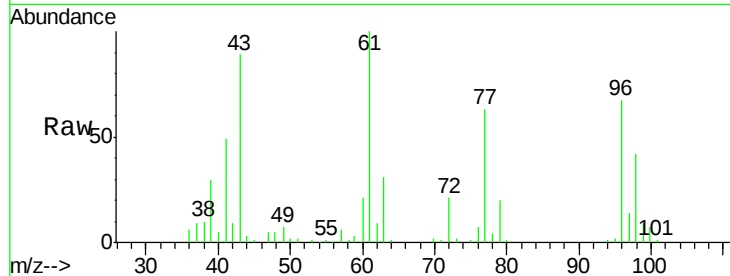
ClientSampleId :

VN0401WBSD01

Tot Ion:	96	Resp:	93927
Ion	Ratio	Lower	Upper
96	100		
61	155.4	0.0	273.0
98	63.4	0.0	130.6

Manual Integrations
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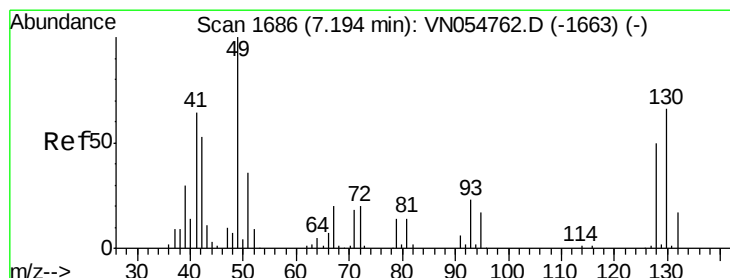
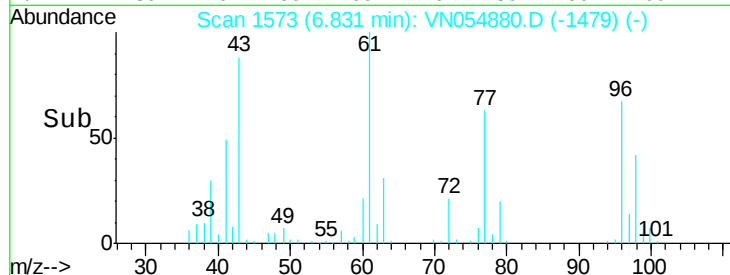
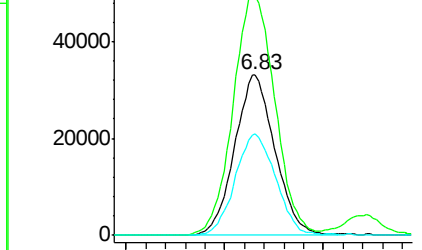
MMDadoda
4/2/2019 10:51:27 AM



Abundance Ion 95.90 (95.60 to 96.60): VN054880.D (-1479) (-)

Ion 60.90 (60.60 to 61.60): VN054880.D (-1479) (-)

Ion 97.90 (97.60 to 98.60): VN054880.D (-1479) (-)



#28

Bromochloromethane

Concen: 21.610 ug/l

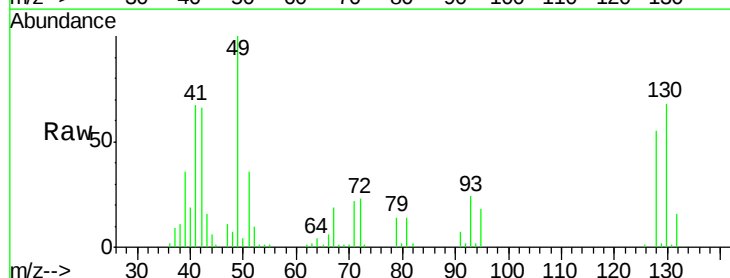
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

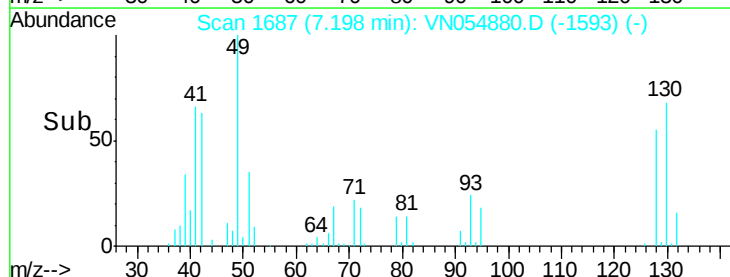
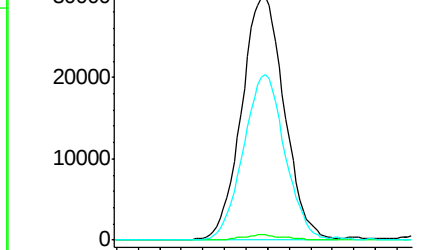
Tgt Ion:	49	Resp:	82465
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.6
130	66.0	76.7	115.1#

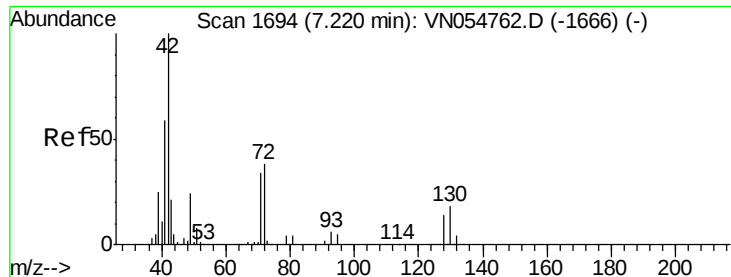


Abundance Ion 48.90 (48.60 to 49.60): VN054880.D (-1593) (-)

Ion 128.80 (128.50 to 129.50): VN054880.D (-1593) (-)

Ion 129.80 (129.50 to 130.50): VN054880.D (-1593) (-)





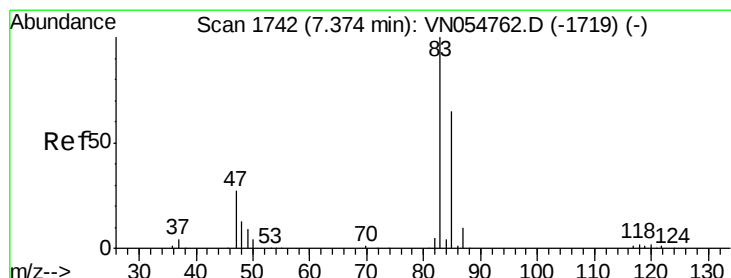
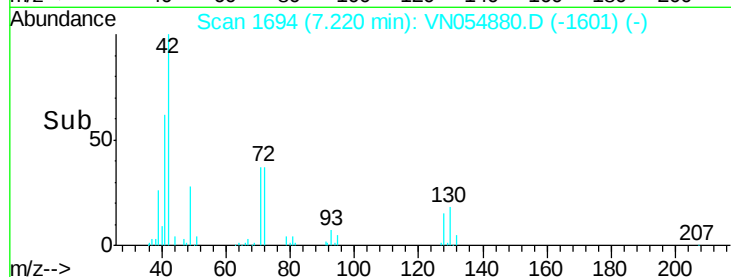
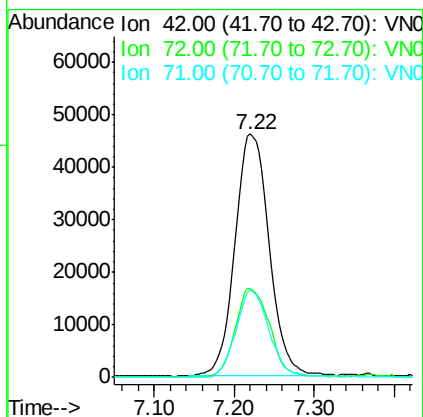
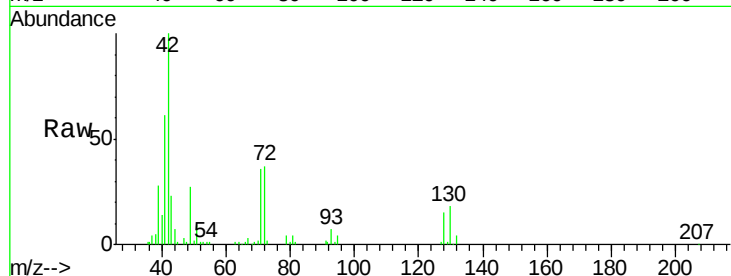
#29
Tetrahydrofuran
Concen: 107.678 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.1	37.8	56.6#
71	34.9	36.2	54.2#

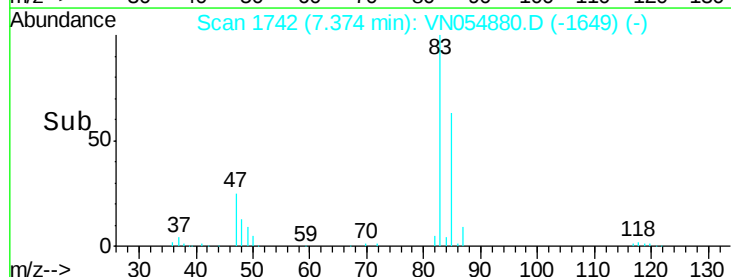
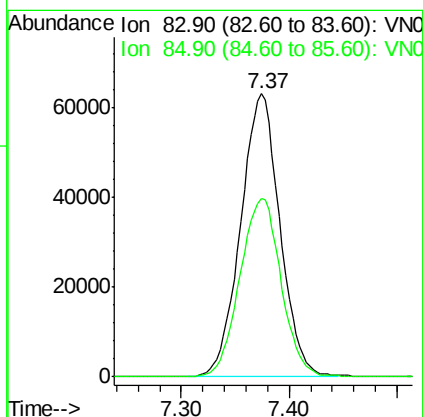
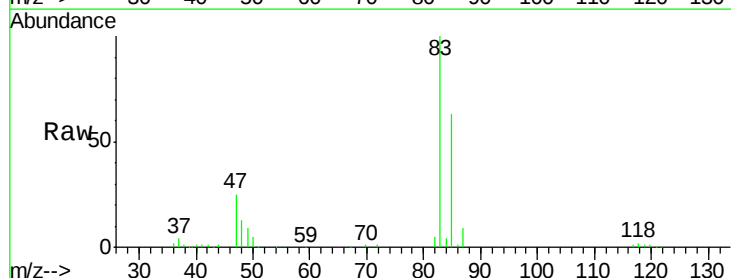
Manual Integrations
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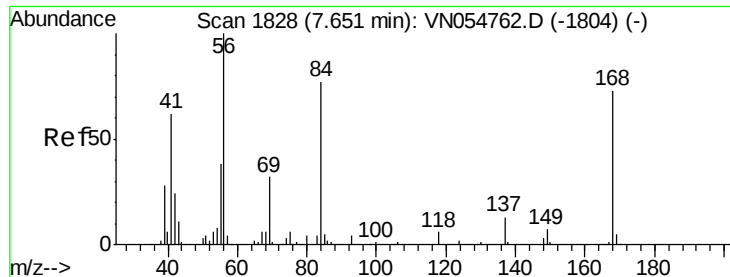
MMDadoda
4/2/2019 10:51:27 AM



#30
Chloroform
Concen: 21.911 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.2	78.4





#31

Cyclohexane

Concen: 20.584 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0401WBSD01

Tot Ion: 56 Resp: 151558

Ion Ratio Lower Upper

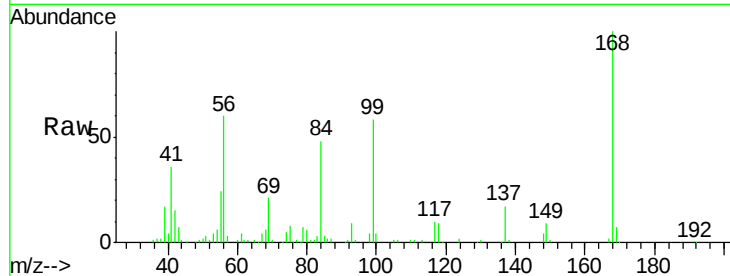
56 100

69 34.9 27.8 41.6

84 78.3 74.6 111.8

Manual Integrations
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MMDadoda
4/2/2019 10:51:27 AM

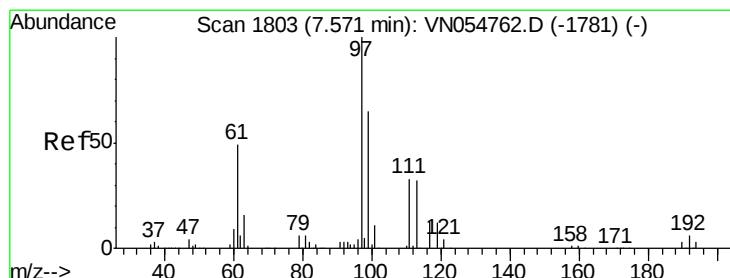
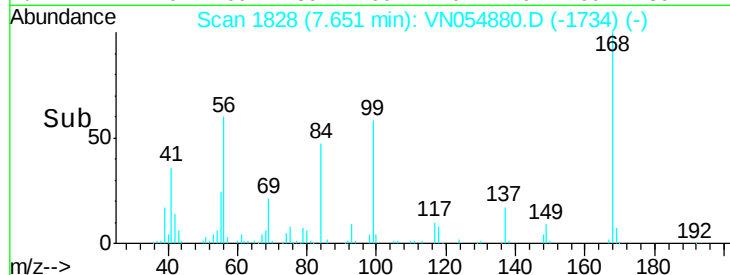
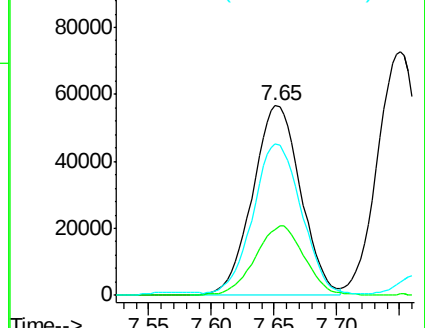


Abundance

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: 21.949 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

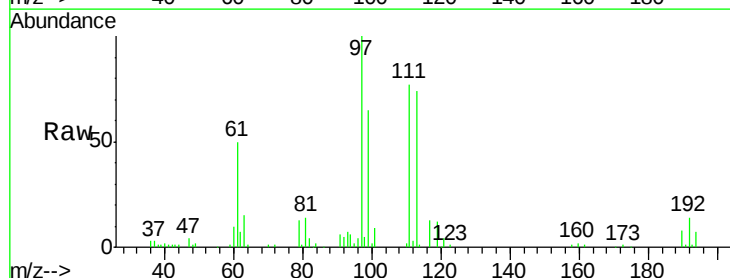
Tgt Ion: 97 Resp: 132364

Ion Ratio Lower Upper

97 100

99 66.0 51.5 77.3

61 48.6 33.6 50.4

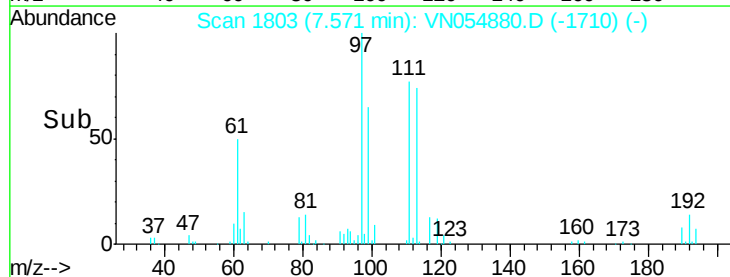
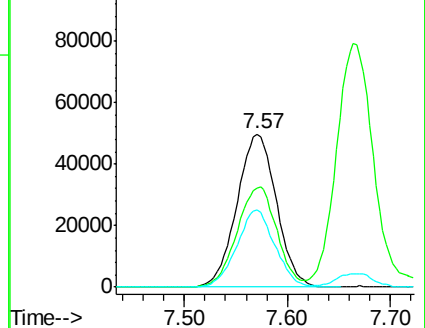


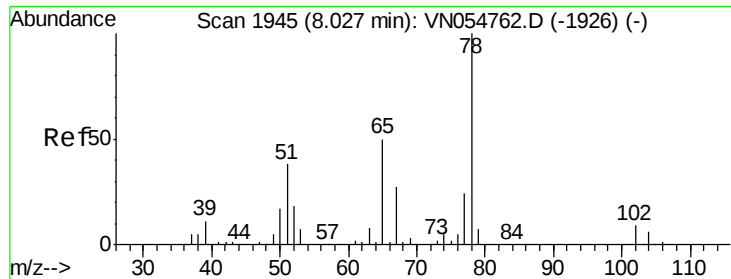
Abundance

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





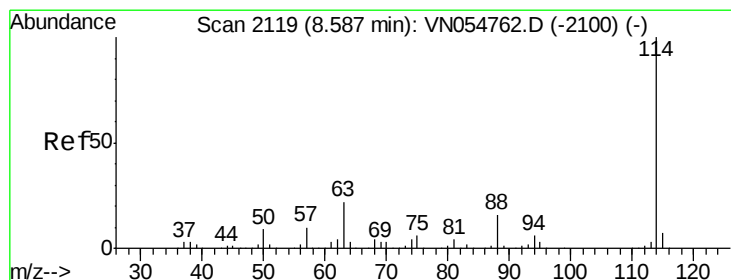
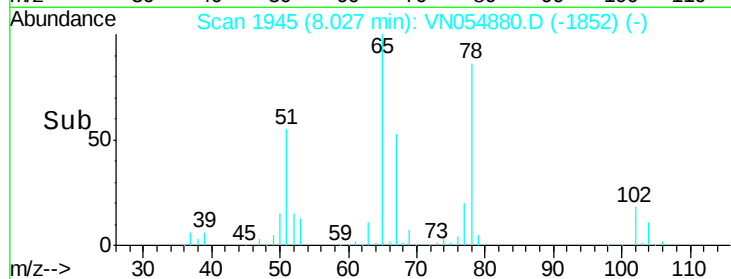
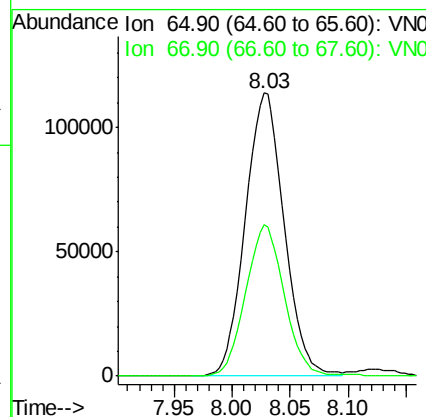
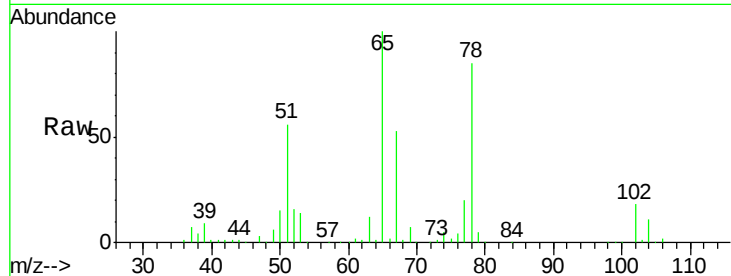
#33
 1,2-Dichloroethane-d4
 Concen: 52.848 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampled :
 VN0401WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	266140		
67	52.9	0.0	104.6	

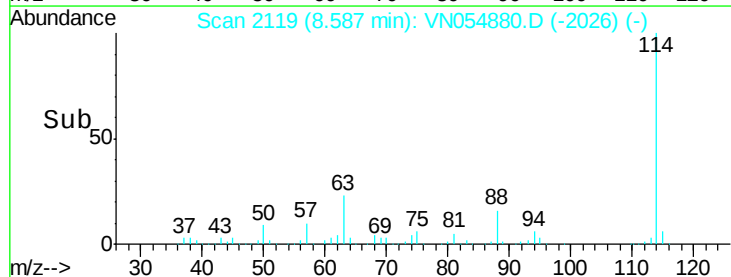
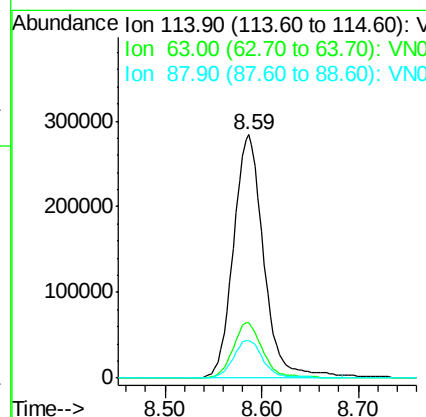
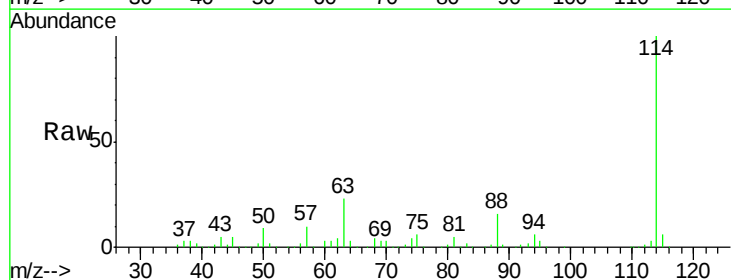
Manual Integrations
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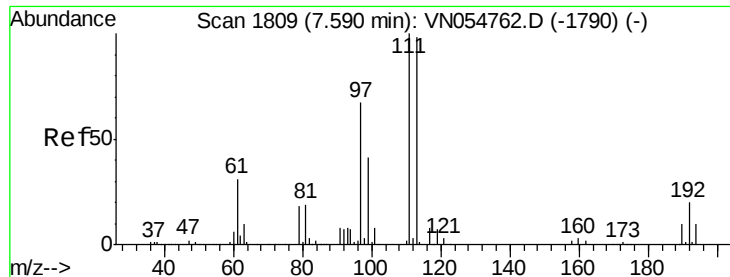
MMDadoda
 4/2/2019 10:51:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	616666		
63	22.6	0.0	35.2	
88	15.6	0.0	30.2	





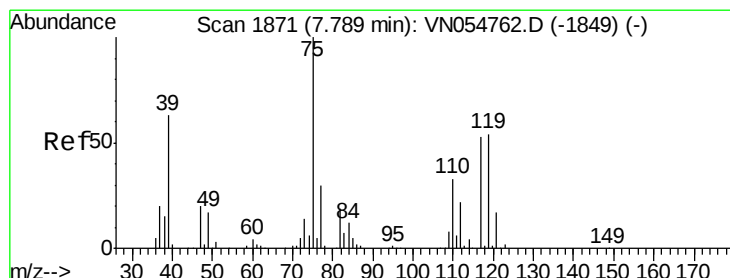
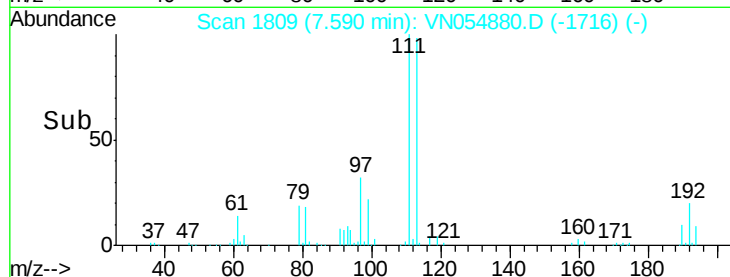
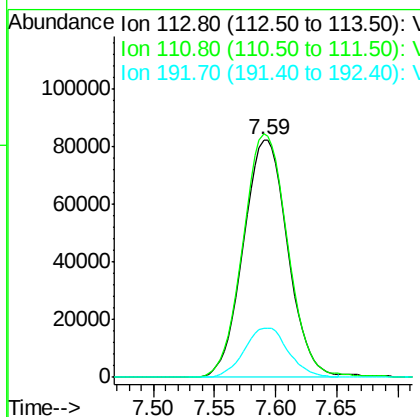
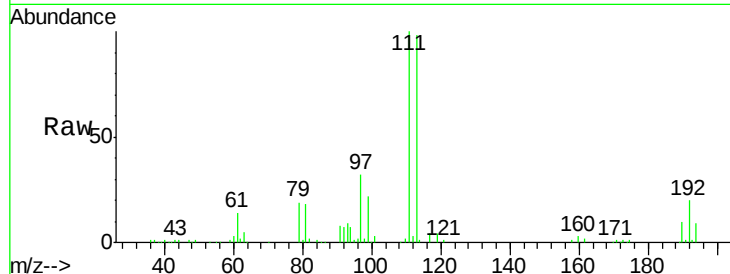
#35
 Dibromofluoromethane
 Concen: 50.444 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	207390		
111	103.5	82.2	123.4	
192	20.7	19.2	28.8	

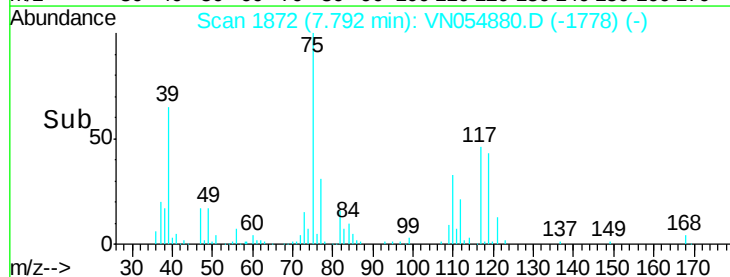
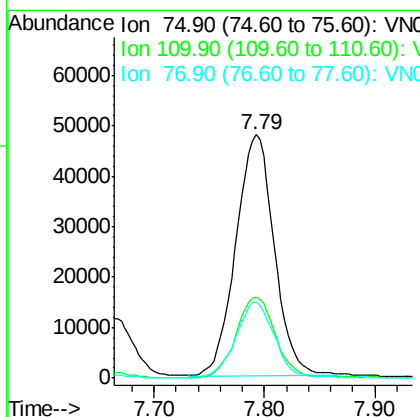
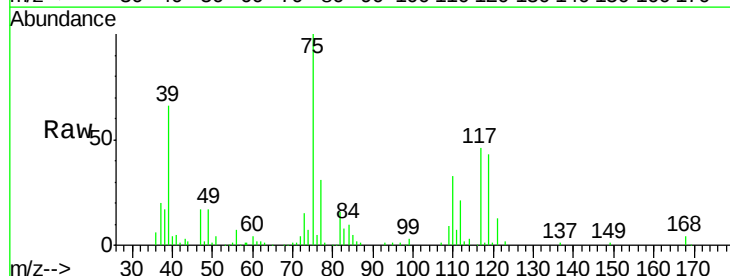
Manual Integrations
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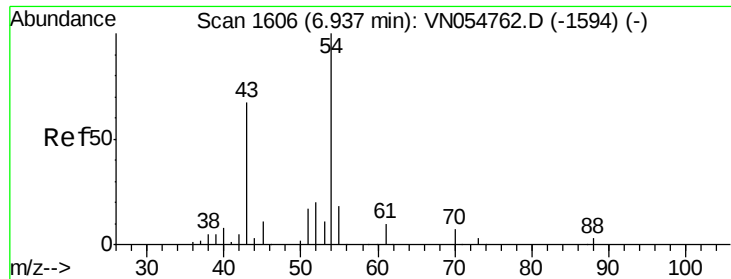
MMDadoda
 4/2/2019 10:51:27 AM



#36
 1,1-Dichloropropene
 Concen: 20.094 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	115460		
110	34.3	19.1	57.5	
77	32.1	25.0	37.4	





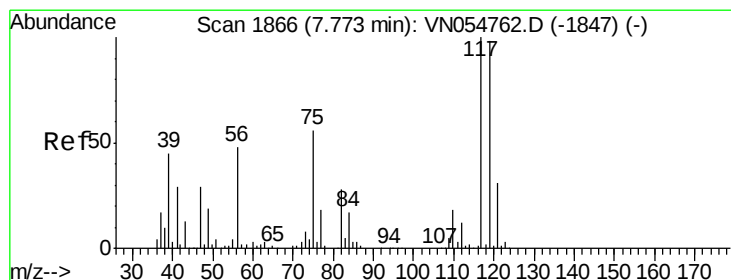
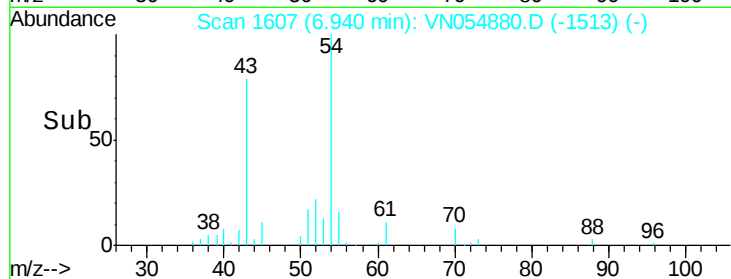
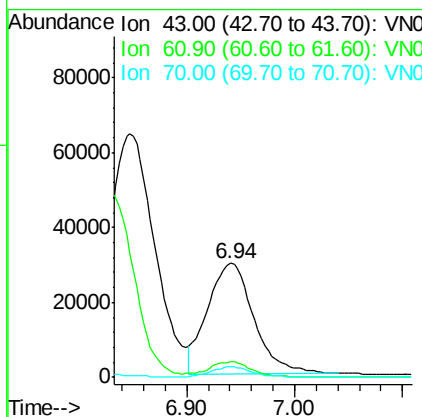
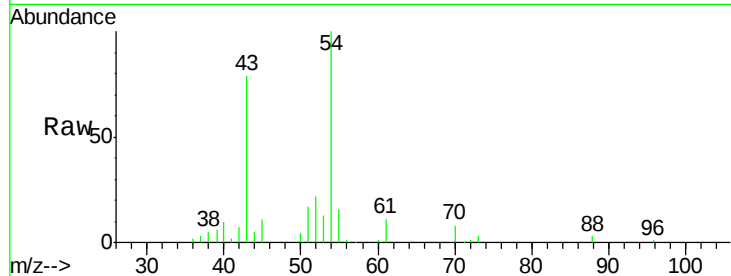
#37
Ethyl Acetate
Concen: 21.067 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion	43	61	70
Resp	88770		
Ratio	100	12.4	8.7
Lower		11.8	8.4
Upper		17.6	12.6

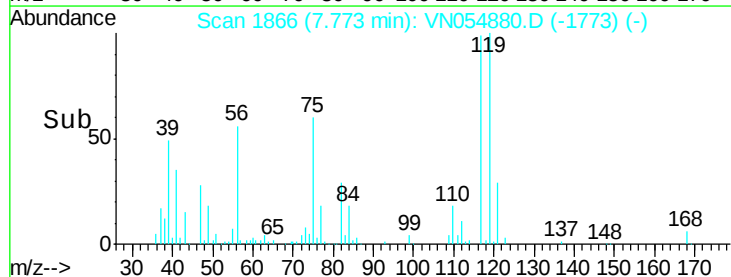
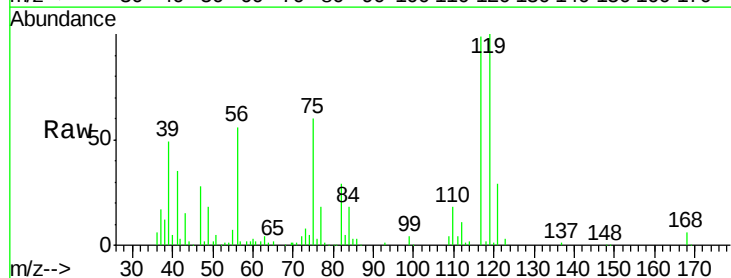
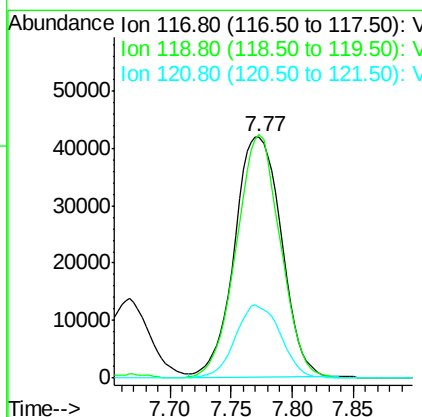
Manual Integrations
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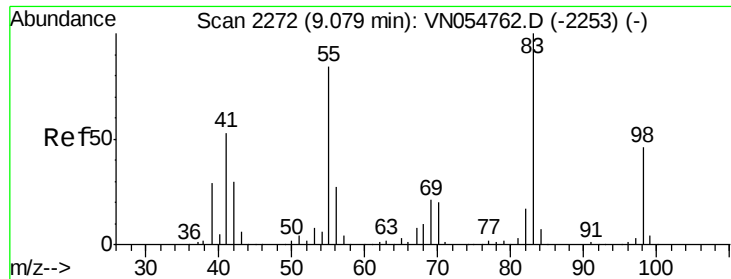
MMDadoda
4/2/2019 10:51:27 AM



#38
Carbon Tetrachloride
Concen: 19.898 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	117	119	121
Resp	111051		
Ratio	100	101.4	29.4
Lower		76.3	24.6
Upper		114.5	36.8





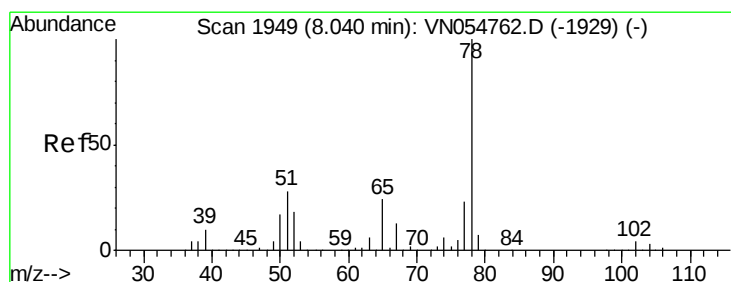
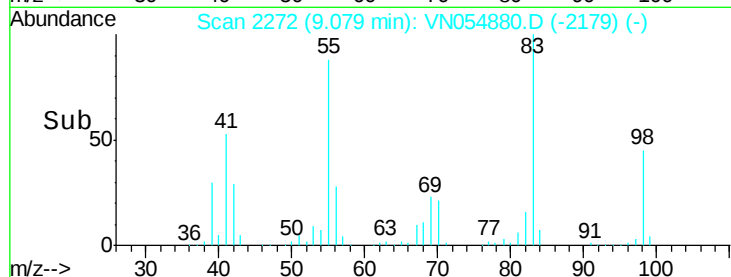
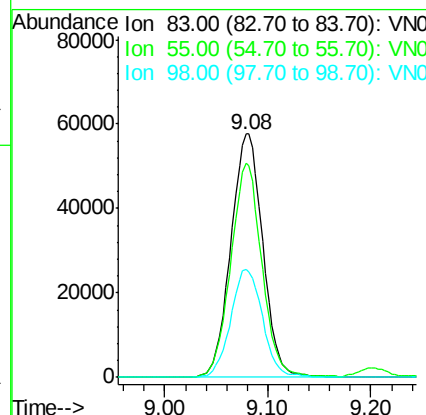
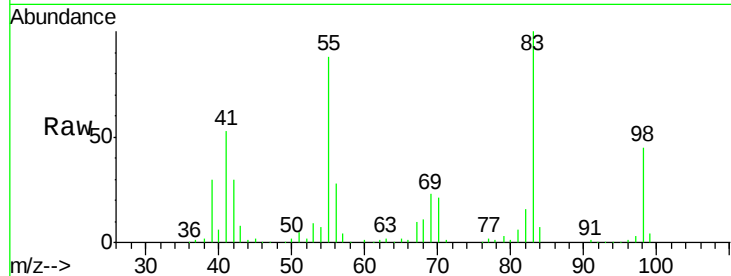
#39
Methvlcvclohexane
Concen: 19.649 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	87.4	56.6	84.8#	
98	44.6	38.4	57.6	

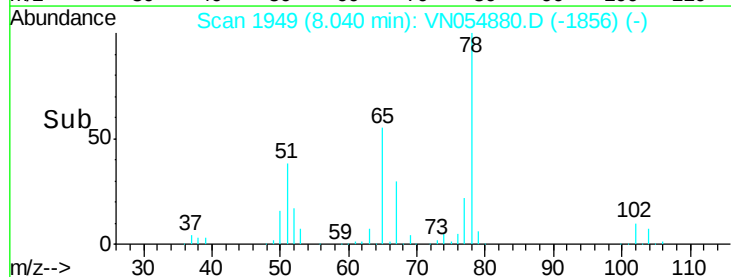
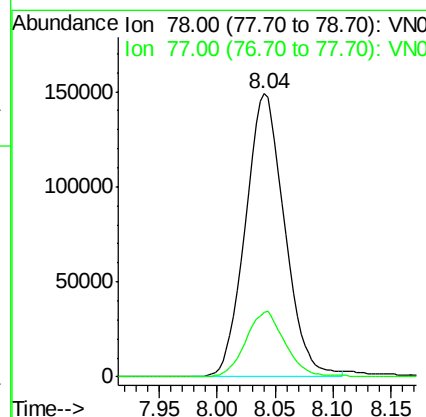
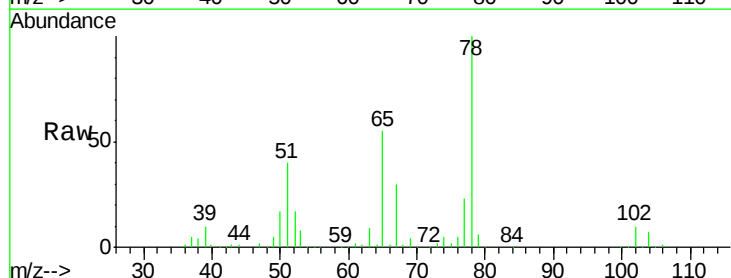
Manual Integrations
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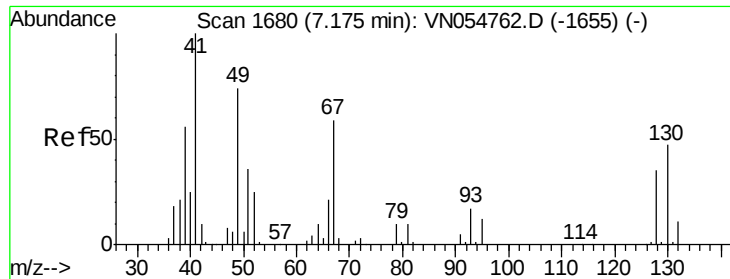
MMDadoda
4/2/2019 10:51:27 AM



#40
Benzene
Concen: 21.361 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	22.6	19.1	28.7	





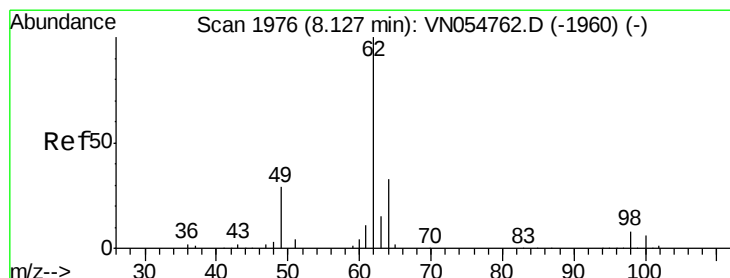
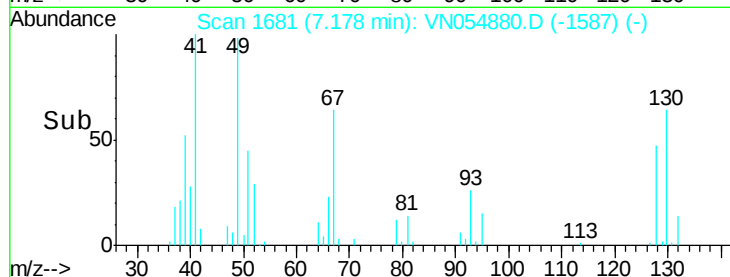
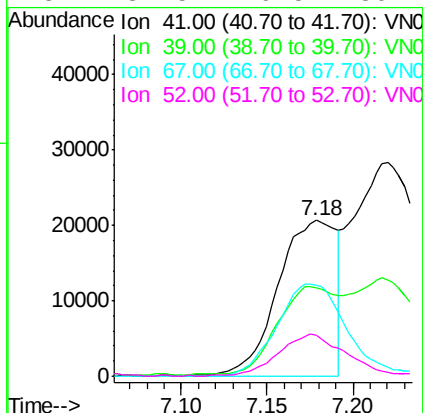
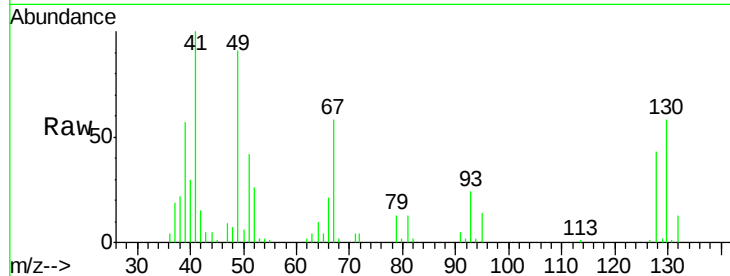
#41
Methacrylonitrile
Concen: 20.618 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.7	46.8	70.2
67	70.9	67.0	100.4
52	31.5	26.5	39.7

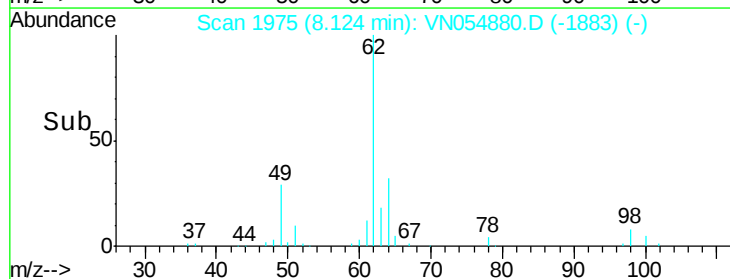
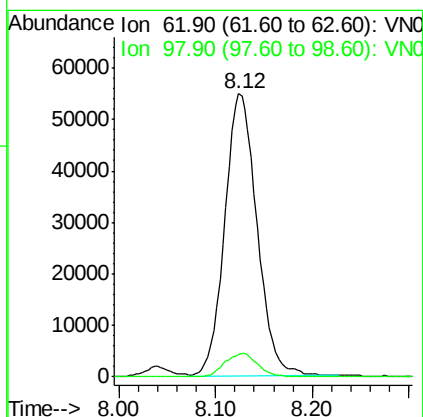
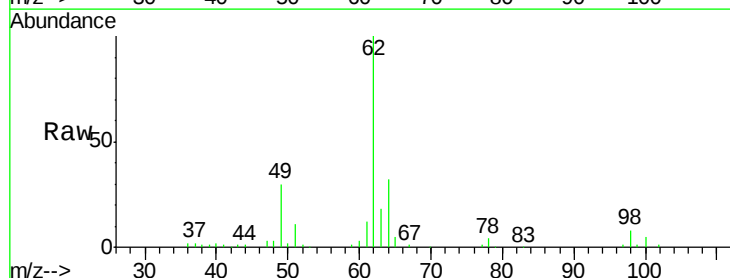
Manual Integrations
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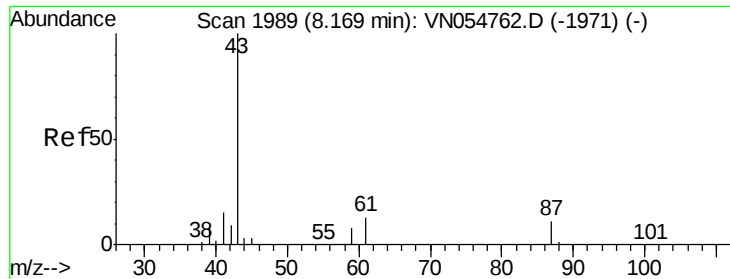
MMDadoda
4/2/2019 10:51:27 AM



#42
1,2-Dichloroethane
Concen: 21.647 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.4





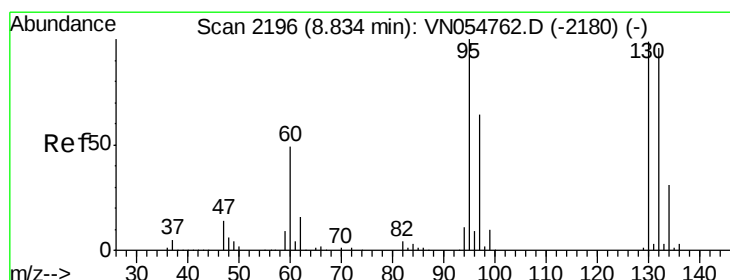
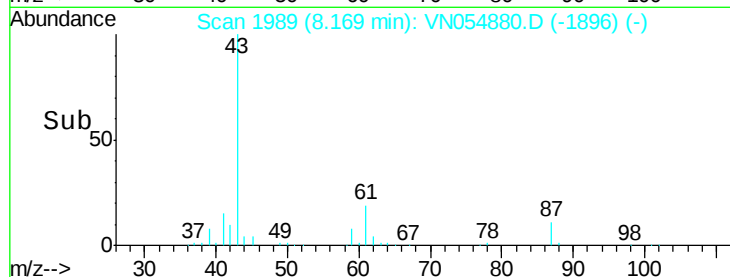
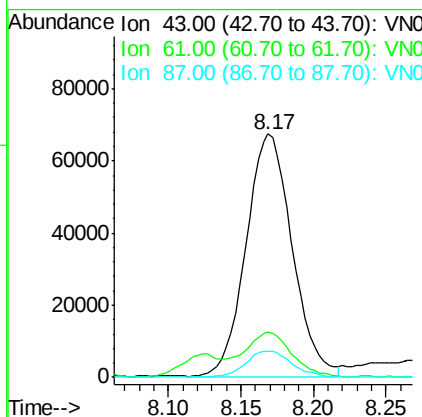
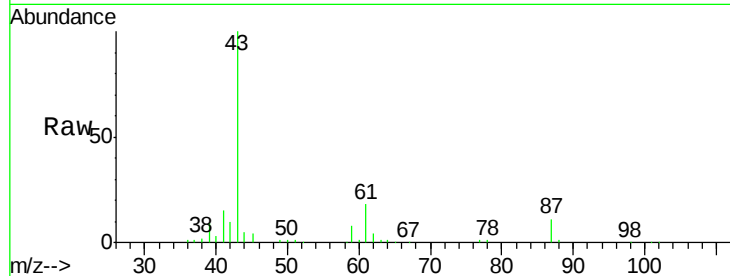
#43
Isopropyl Acetate
Concen: 21.667 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.8	23.8
87	10.9	12.0	18.0

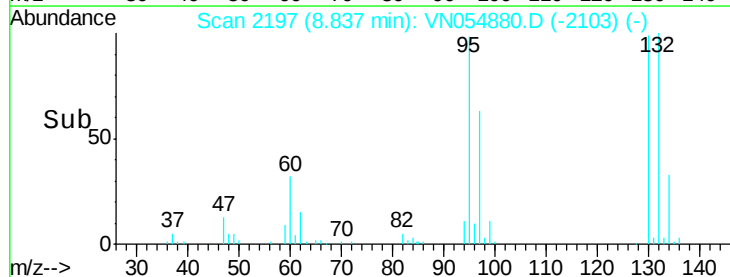
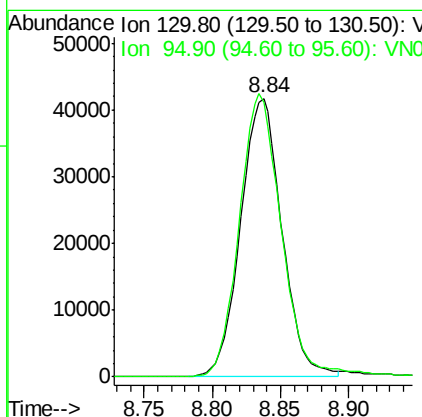
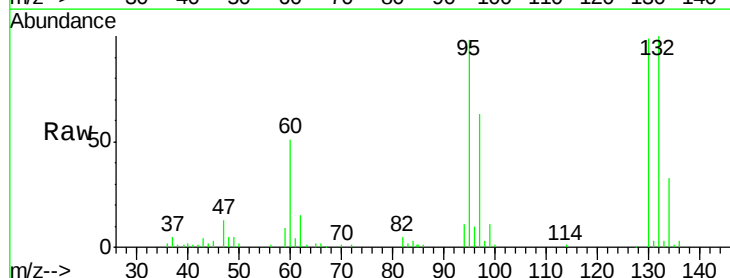
Manual Integrations
APPROVED

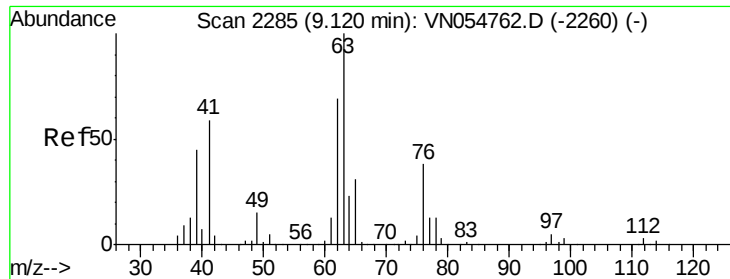
MMDadoda
4/2/2019 10:51:27 AM



#44
Trichloroethene
Concen: 20.589 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	185.2





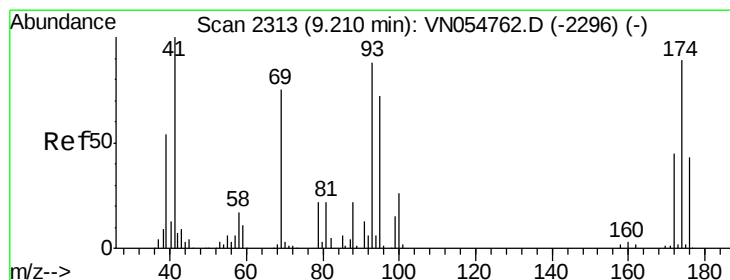
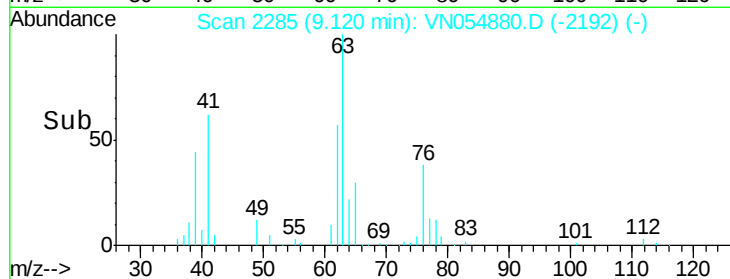
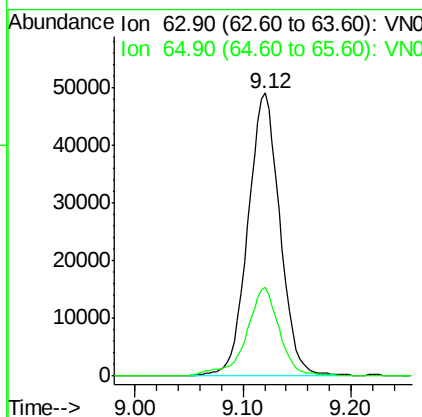
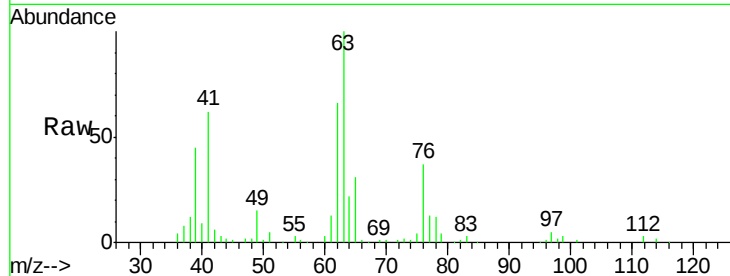
#45
 1,2-Dichloropropane
 Concen: 21.546 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.0	37.6

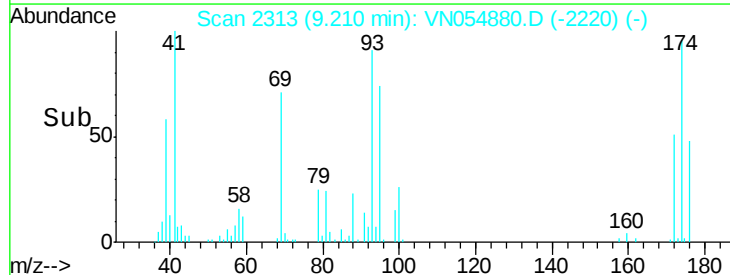
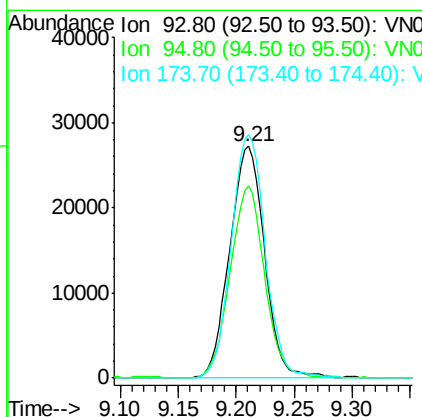
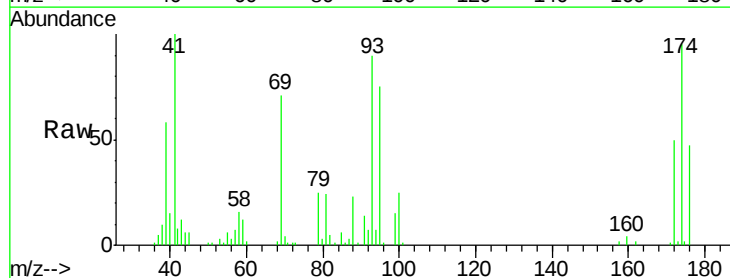
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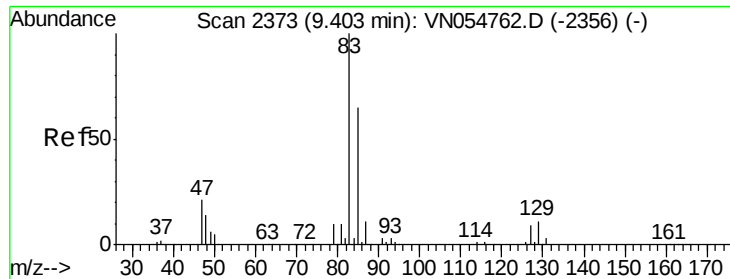
MMDadoda
 4/2/2019 10:51:27 AM



#46
 Dibromomethane
 Concen: 21.529 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.0	66.7	100.1
174	102.6	98.5	147.7





#47

Bromodichloromethane

Concen: 21.326 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

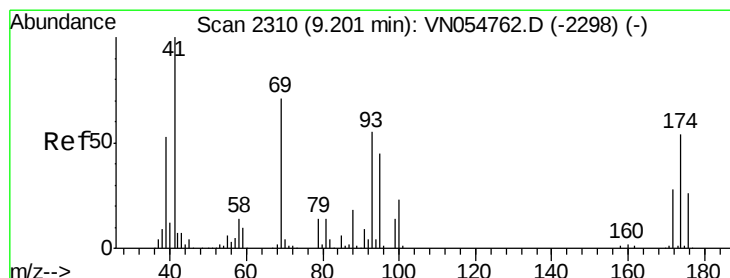
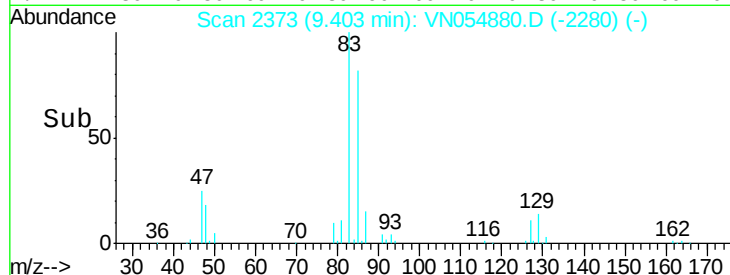
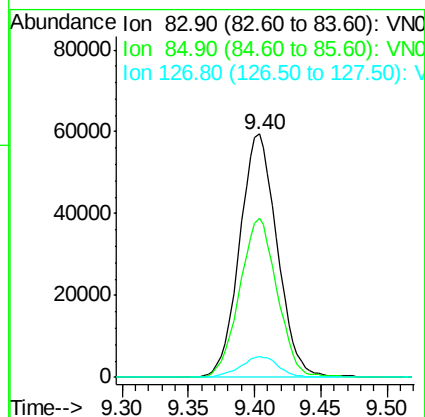
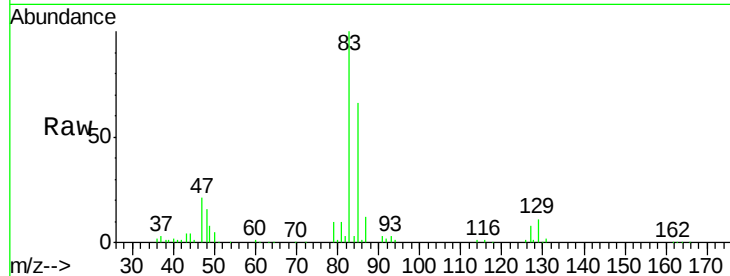
ClientSampleId :

VN0401WBSD01

Tot Ion:	83	Resp:	116891
Ion Ratio	Lower	Upper	
83	100		
85	65.6	52.8	79.2
127	8.4	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.468 ug/l

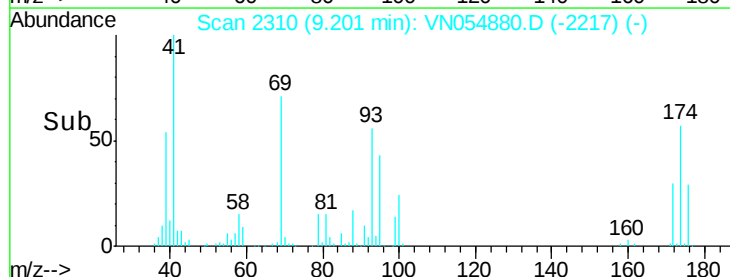
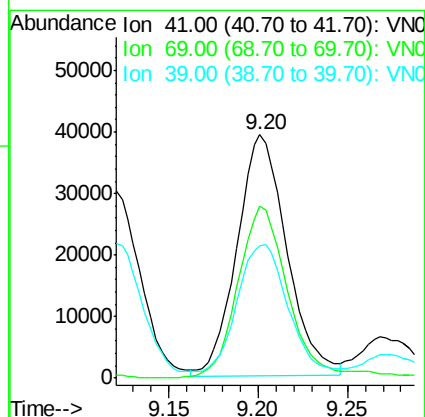
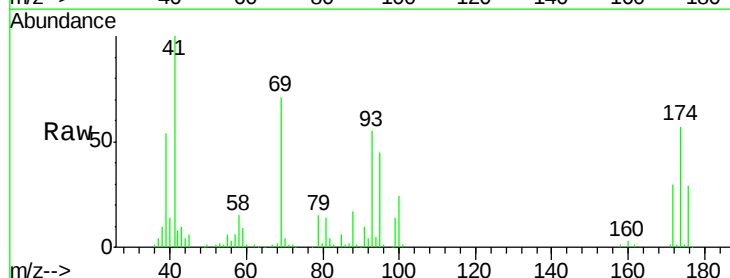
RT: 9.20 min Scan# 2310

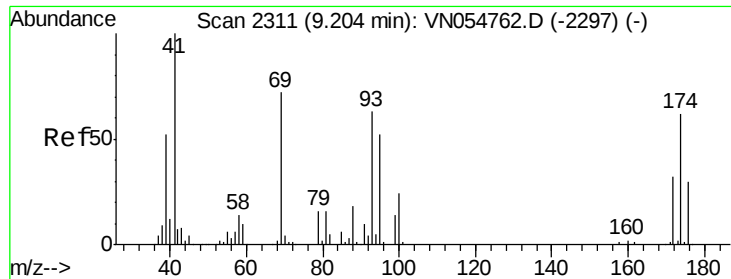
Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Tgt Ion:	41	Resp:	75966
Ion Ratio	Lower	Upper	
41	100		
69	70.8	72.6	108.8#
39	56.4	47.5	71.3





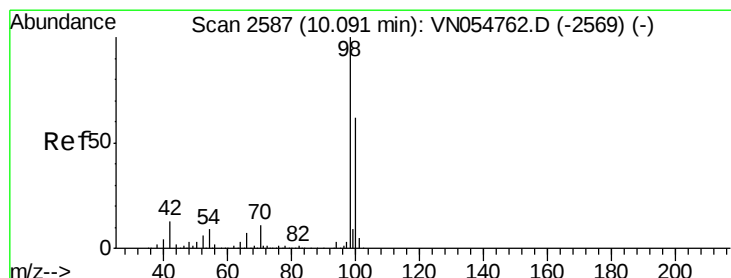
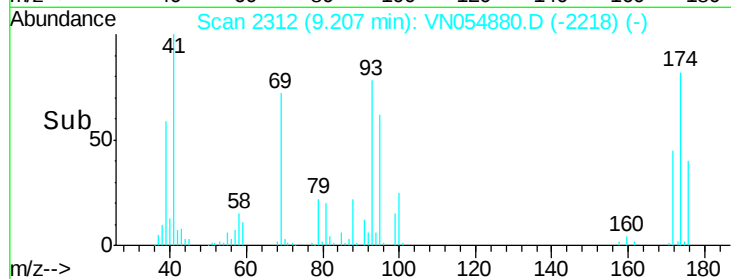
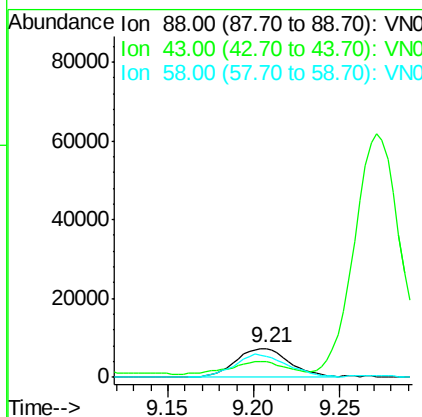
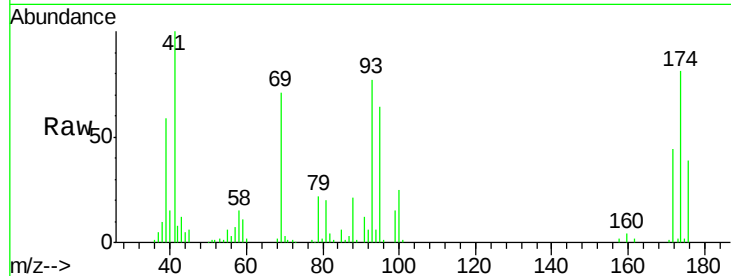
#49
 1,4-Dioxane
 Concen: 426.979 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	88	Resp	15724
Ion Ratio	Lower	Upper	
88	100		
43	43.7	24.1	36.1#
58	79.8	50.8	76.2#

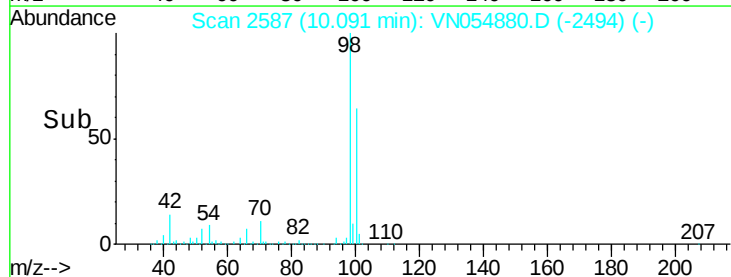
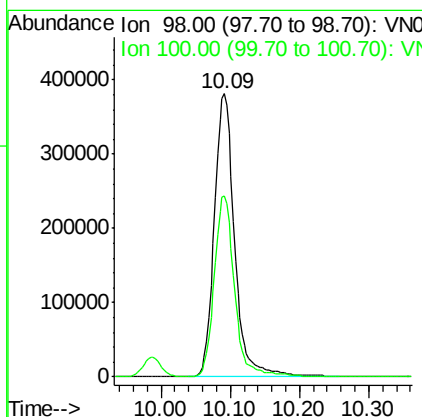
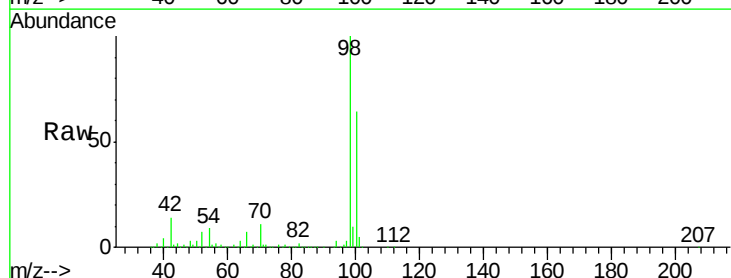
Manual Integrations
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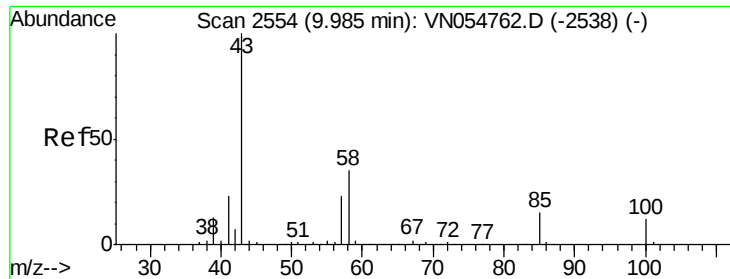
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#50
 Toluene-d8
 Concen: 50.918 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	98	Resp	778263
Ion Ratio	Lower	Upper	
98	100		
100	63.6	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 110.124 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 43 Resp: 423918

Ion Ratio Lower Upper

43 100

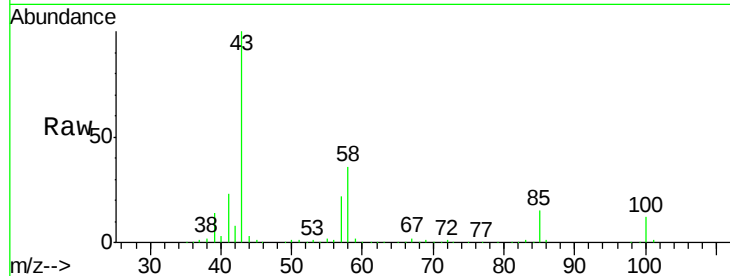
58 34.9 31.8 47.6

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

250000

200000

150000

100000

50000

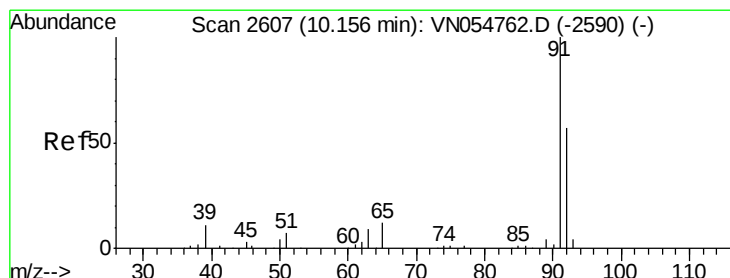
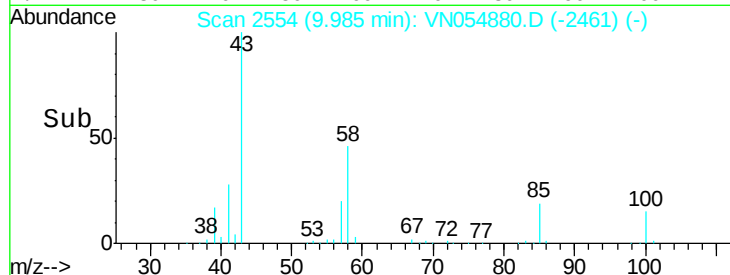
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 21.493 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054880.D

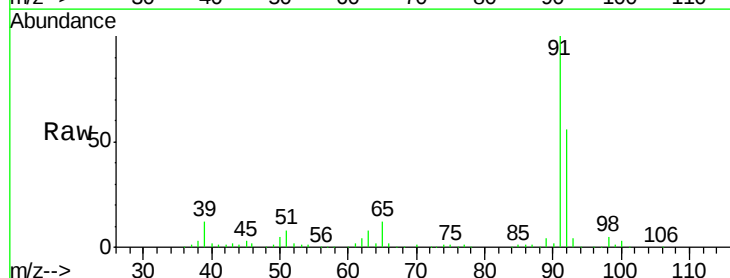
Acq: 1 Apr 2019 17:42

Tgt Ion: 92 Resp: 210281

Ion Ratio Lower Upper

92 100

91 176.4 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

150000

100000

50000

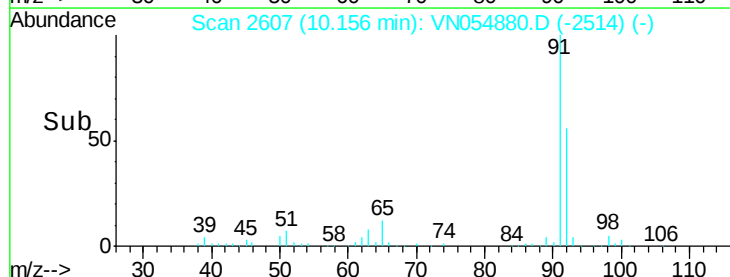
0

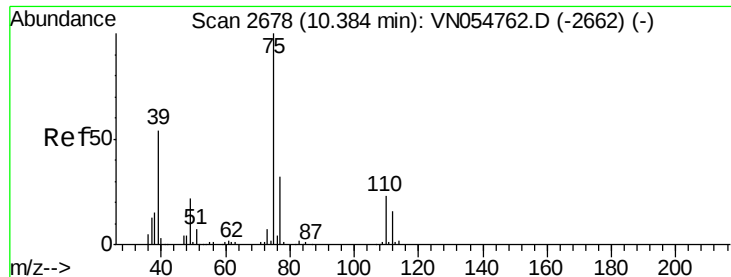
10.10

10.20

10.30

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.414 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 75 Resp: 105252

Ion Ratio Lower Upper

75 100

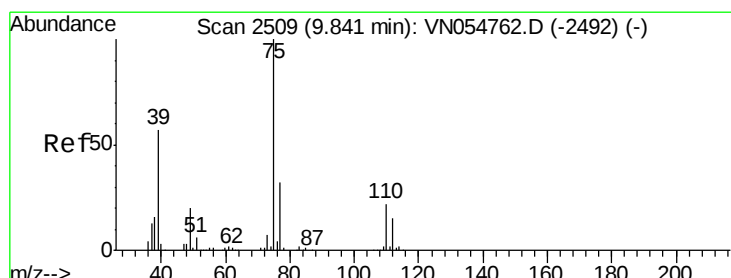
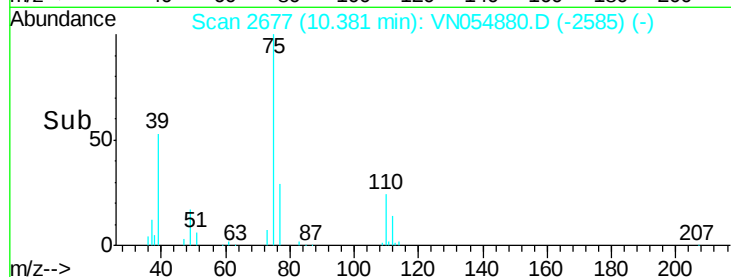
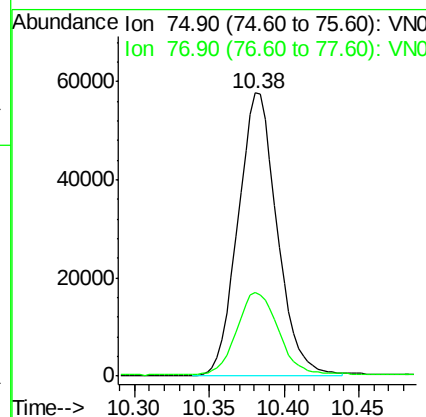
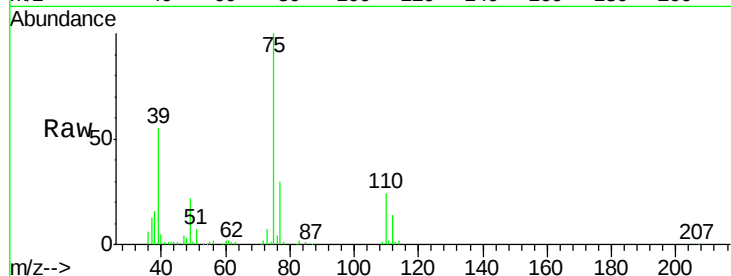
77 29.0 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 21.119 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

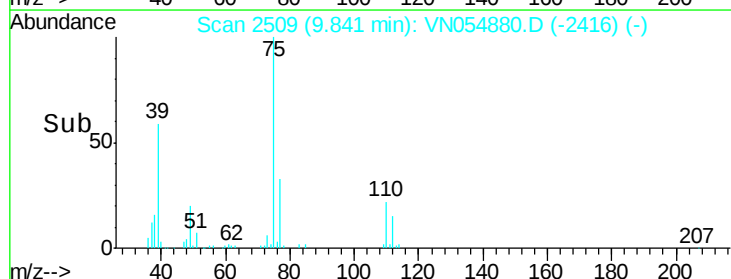
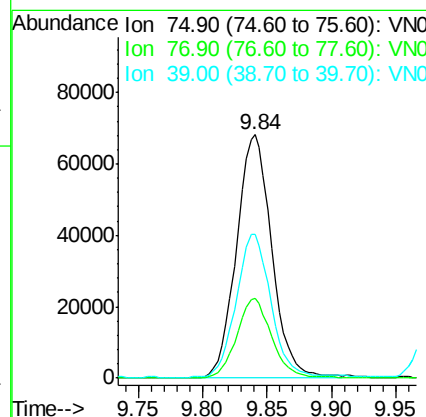
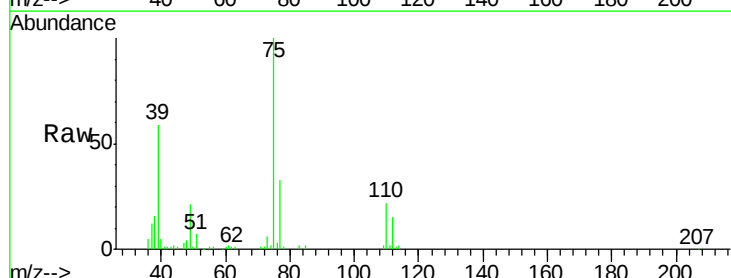
Tgt Ion: 75 Resp: 130071

Ion Ratio Lower Upper

75 100

77 32.8 25.4 38.0

39 58.5 37.2 55.8#





#55

1,1,2-Trichloroethane

Concen: 22.493 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

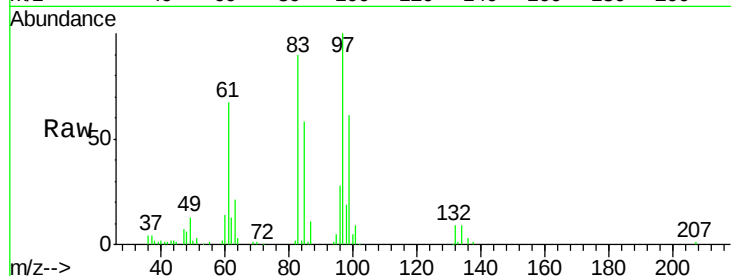
ClientSampleId :

VN0401WBSD01

Tot Ion:	97	Resp:	81827
Ion	Ratio	Lower	Upper
97	100		
83	89.6	66.6	100.0
85	58.1	44.4	66.6
99	60.9	50.8	76.2

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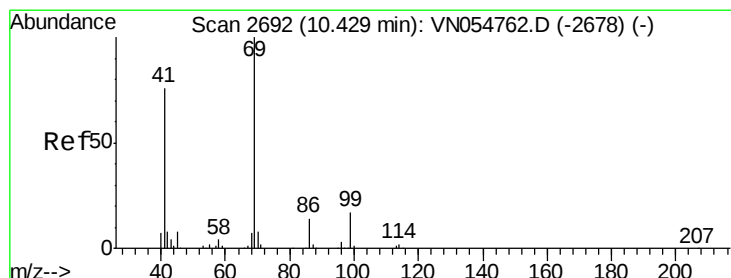
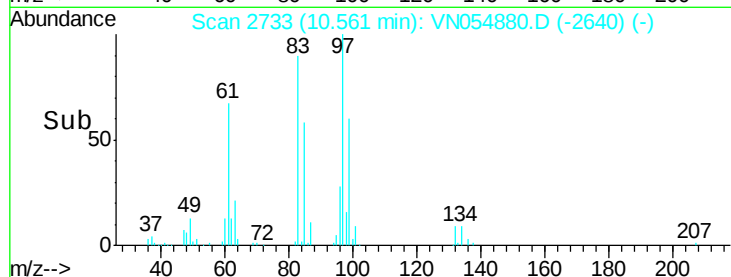
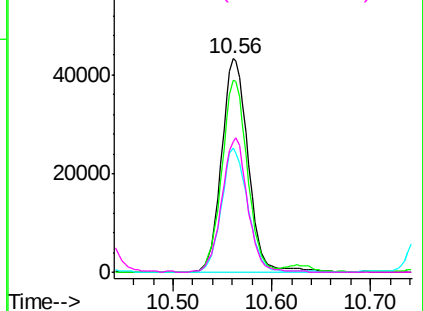


Abundance Ion 96.90 (96.60 to 97.60): VN054880.D (-2640) (-)

Ion 82.90 (82.60 to 83.60): VN054880.D (-2640) (-)

Ion 84.90 (84.60 to 85.60): VN054880.D (-2640) (-)

Ion 98.90 (98.60 to 99.60): VN054880.D (-2640) (-)



#56

Ethyl methacrylate

Concen: 20.364 ug/l

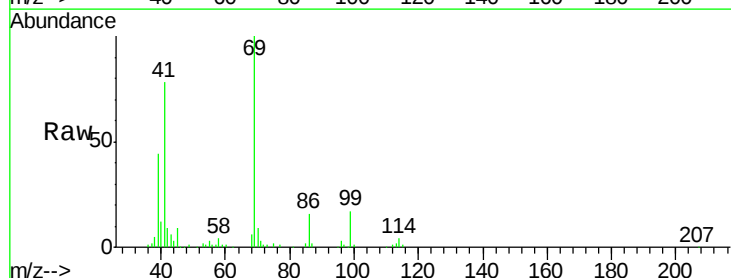
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

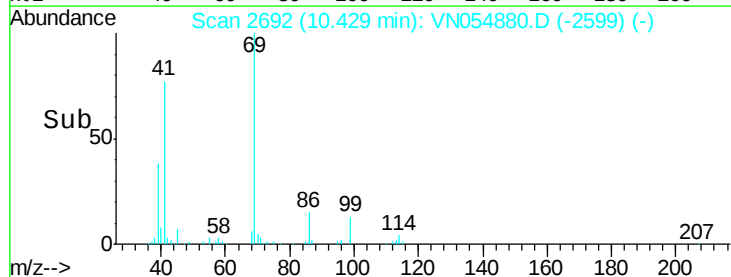
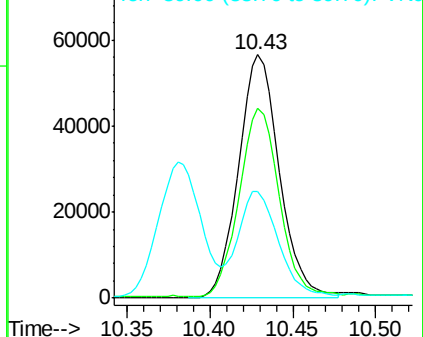
Tgt Ion:	69	Resp:	97181
Ion	Ratio	Lower	Upper
69	100		
41	76.4	49.4	74.2#
39	41.8	28.3	42.5

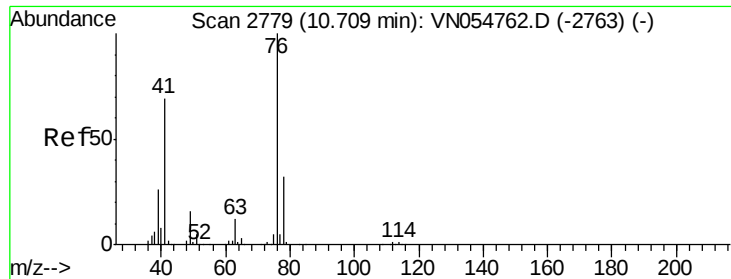


Abundance Ion 69.00 (68.70 to 69.70): VN054880.D (-2599) (-)

Ion 41.00 (40.70 to 41.70): VN054880.D (-2599) (-)

Ion 39.00 (38.70 to 39.70): VN054880.D (-2599) (-)





#57

1,3-Dichloropropane

Concen: 21.910 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 76 Resp: 137034

Ion Ratio Lower Upper

76 100

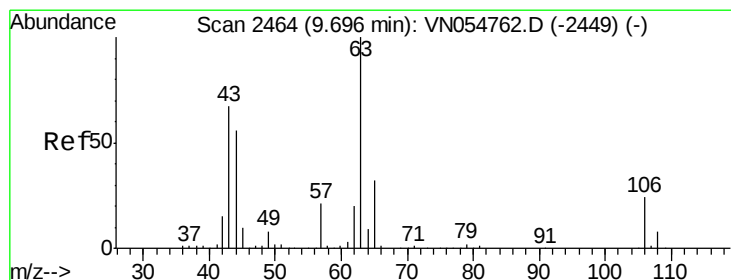
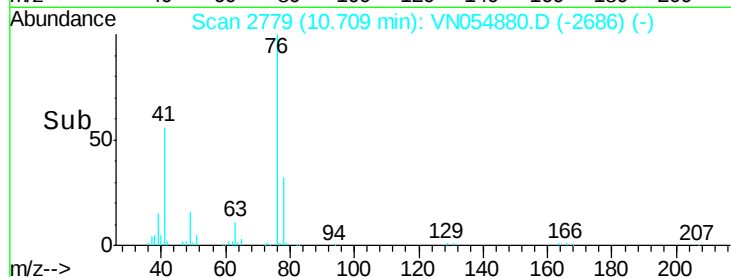
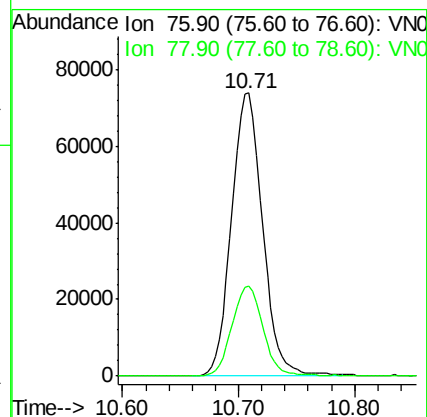
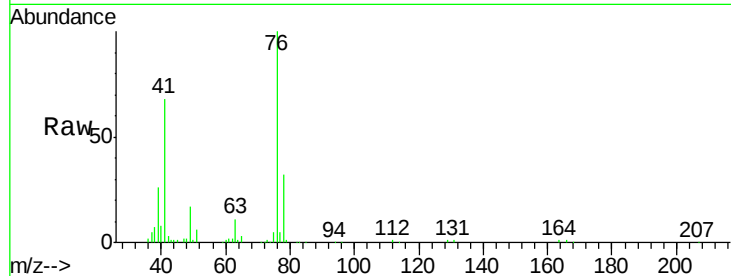
78 31.8 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 95.329 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054880.D

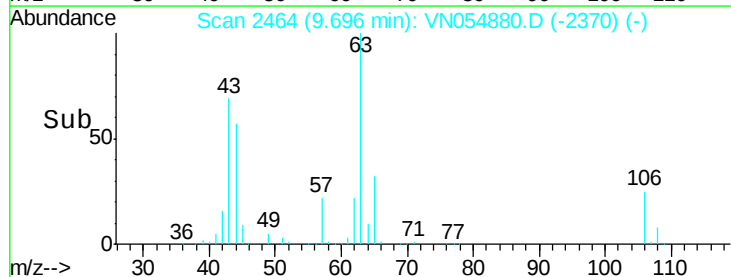
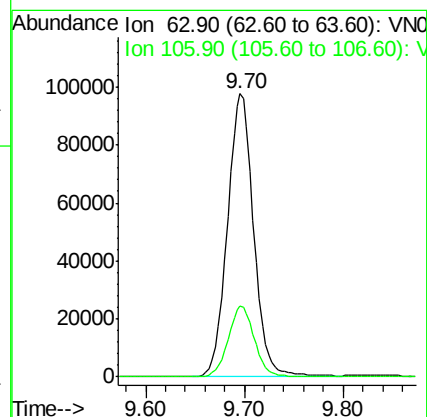
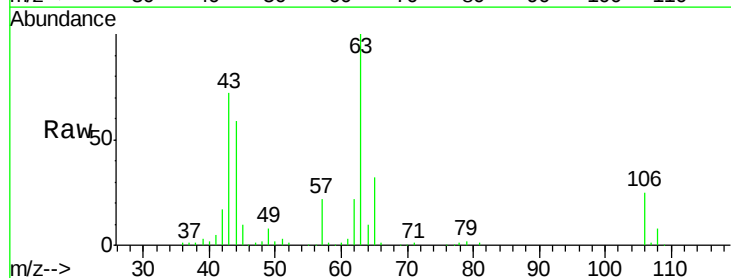
Acq: 1 Apr 2019 17:42

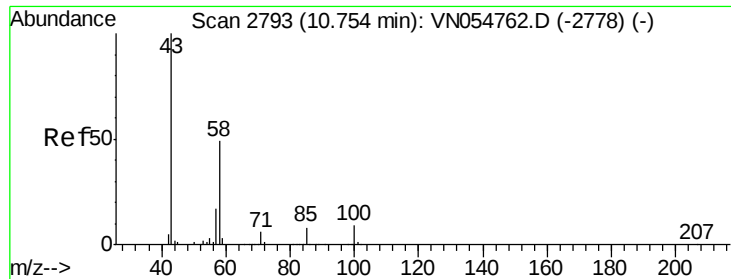
Tgt Ion: 63 Resp: 182227

Ion Ratio Lower Upper

63 100

106 24.9 24.4 36.6





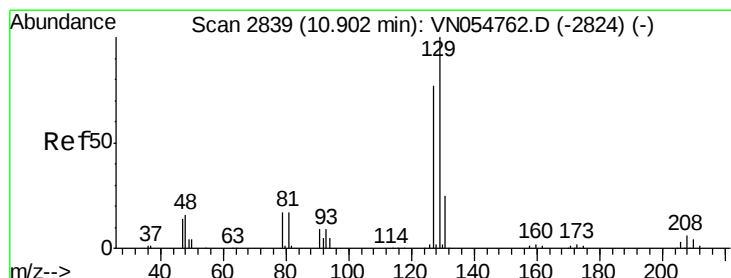
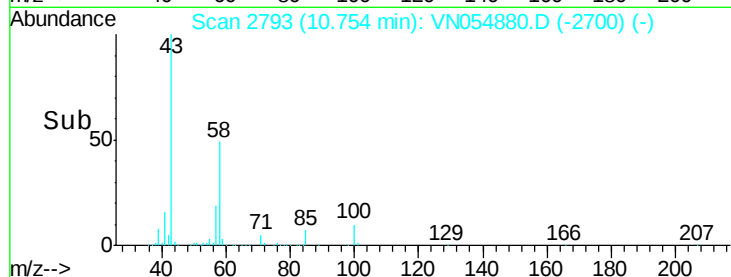
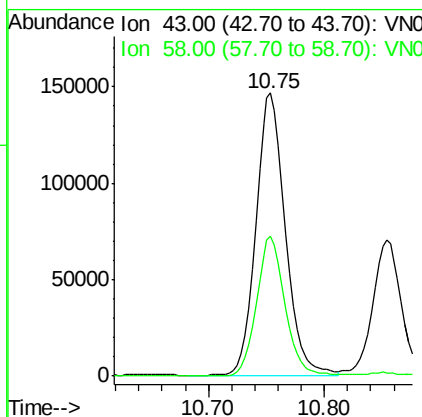
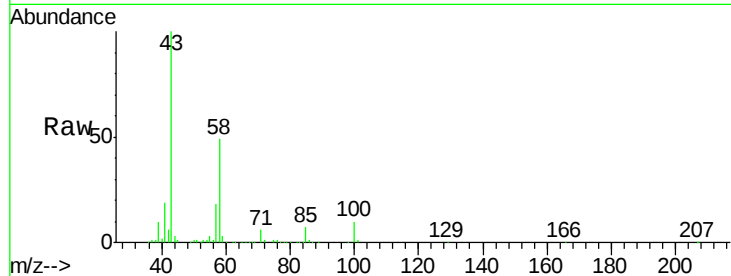
#59
2-Hexanone
Concen: 104.875 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion: 43 Resp: 258439
Ion Ratio Lower Upper
43 100
58 48.6 28.0 83.9

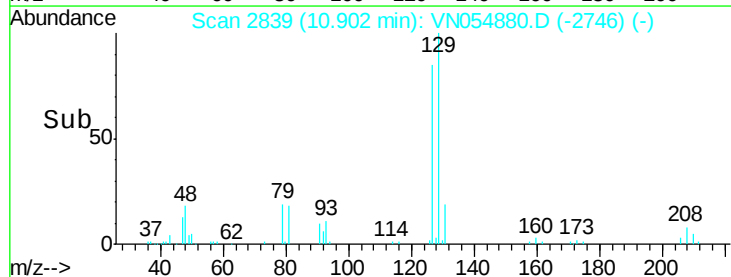
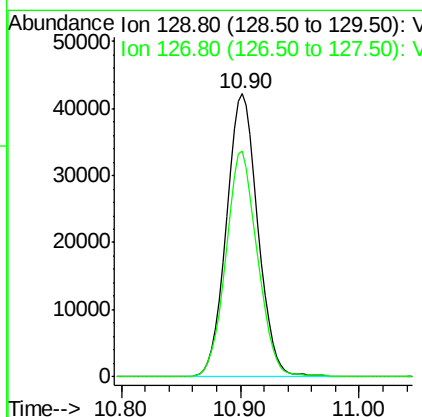
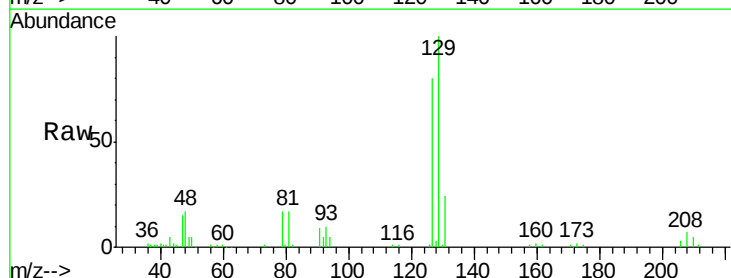
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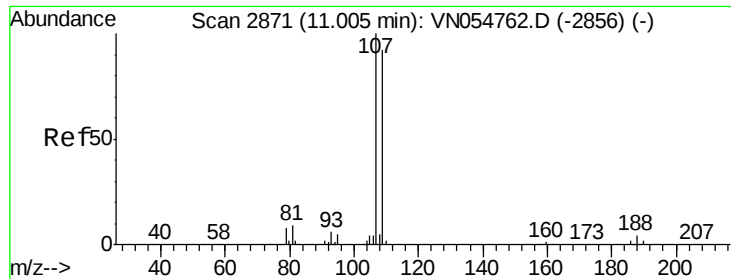
MMDadoda
4/2/2019 10:51:27 AM



#60
Dibromochloromethane
Concen: 20.910 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion: 129 Resp: 77056
Ion Ratio Lower Upper
129 100
127 80.0 38.6 115.8





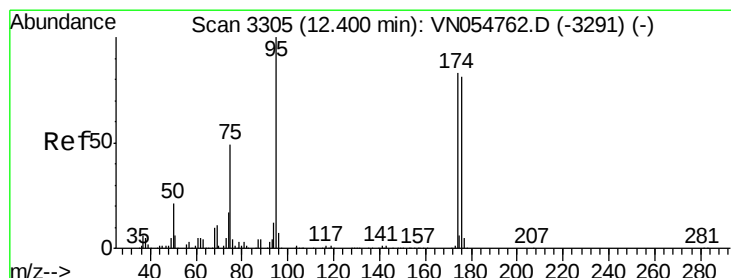
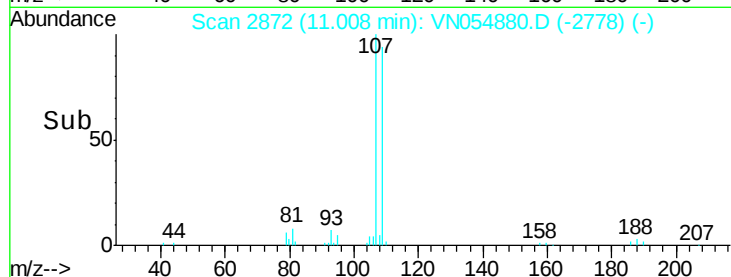
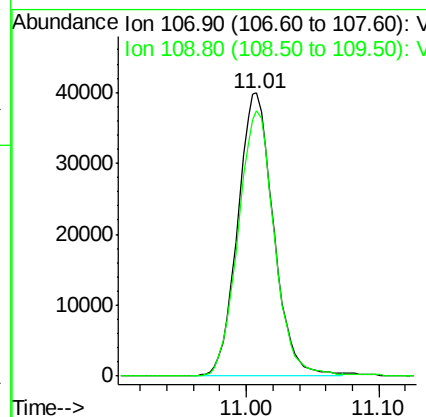
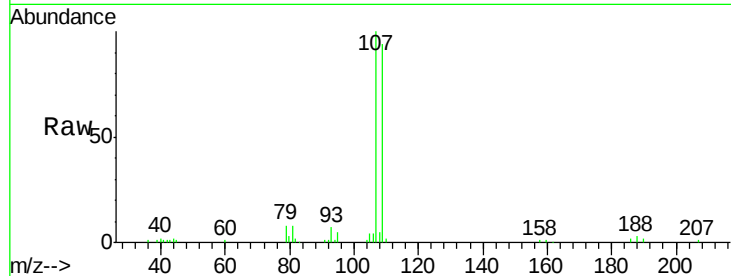
#61
 1,2-Dibromoethane
 Concen: 21.492 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion:107 Resp: 74720
 Ion Ratio Lower Upper
 107 100
 109 95.0 75.9 113.9

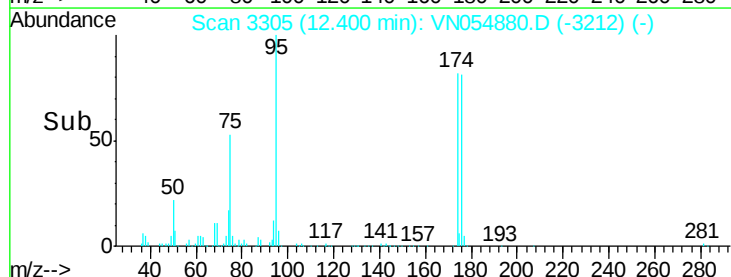
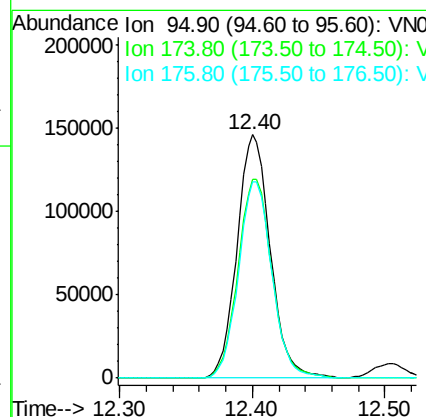
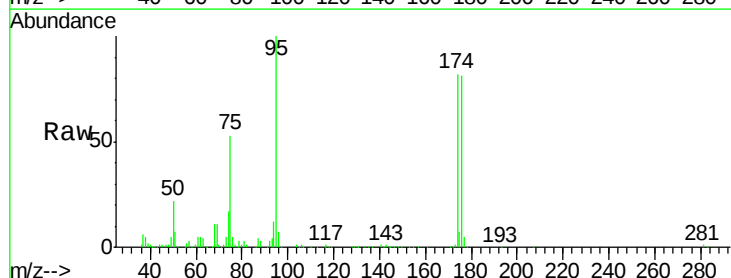
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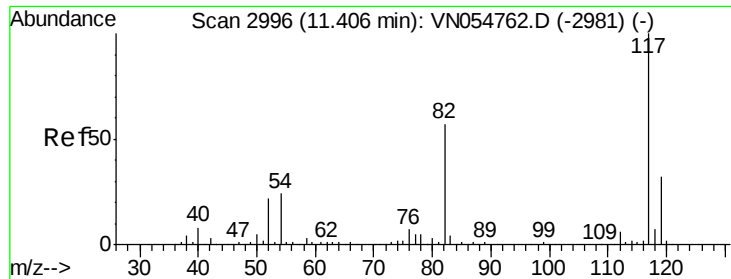
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 4/2/2019 10:51:27 AM



#62
 4-Bromofluorobenzene
 Concen: 49.942 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion: 95 Resp: 253874
 Ion Ratio Lower Upper
 95 100
 174 83.9 0.0 191.0
 176 81.4 0.0 187.4





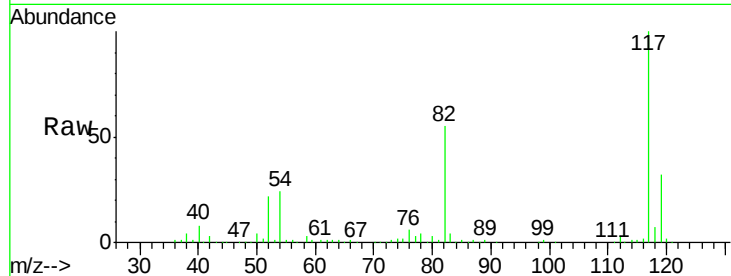
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	40.0	60.0
119	31.8	25.8	38.6

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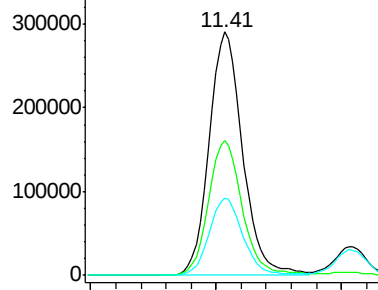


Abundance

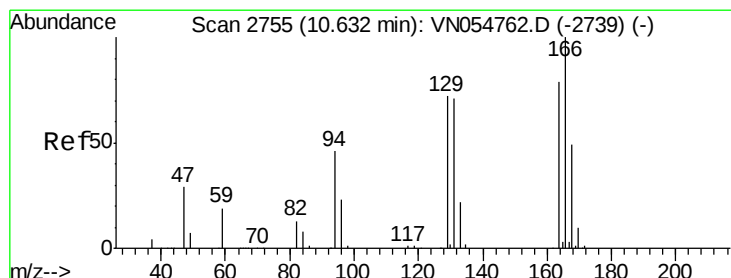
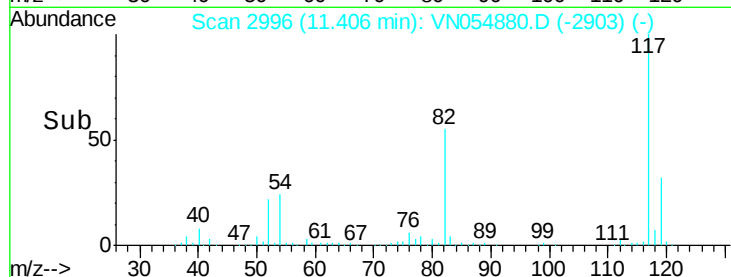
Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



Time--> 11.30 11.40 11.50



#64
Tetrachloroethene
Concen: 19.825 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.1	103.9	155.9
129	93.2	71.1	106.7
131	89.4	68.2	102.4

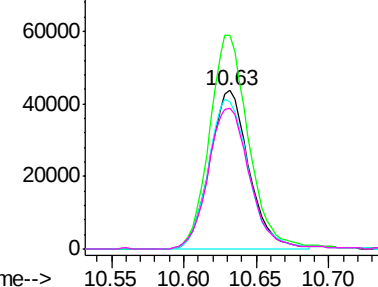
Abundance

Ion 163.80 (163.50 to 164.50): V

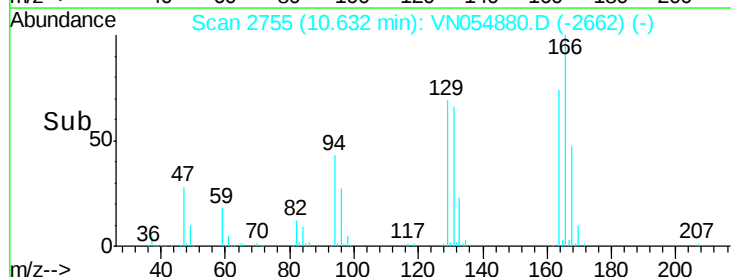
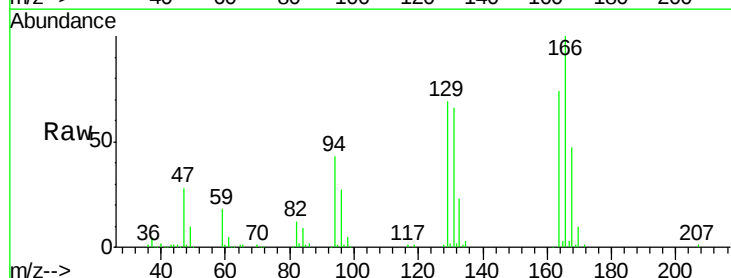
Ion 165.80 (165.50 to 166.50): V

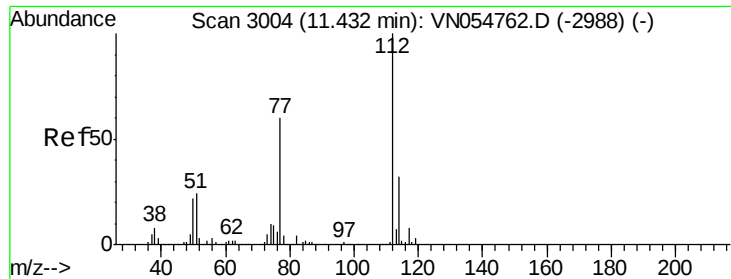
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time--> 10.55 10.60 10.65 10.70





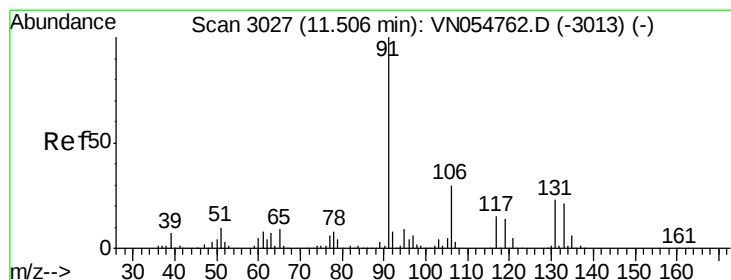
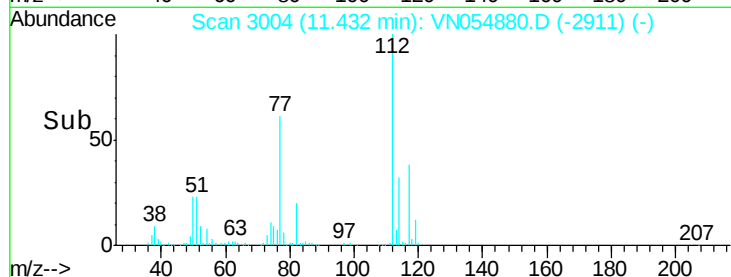
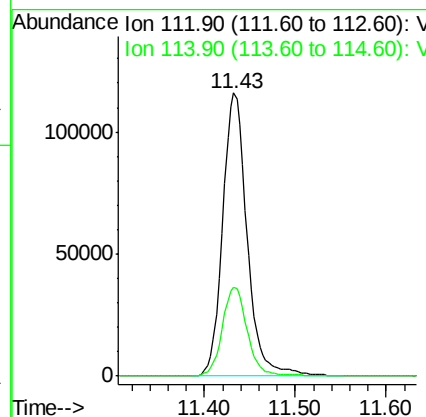
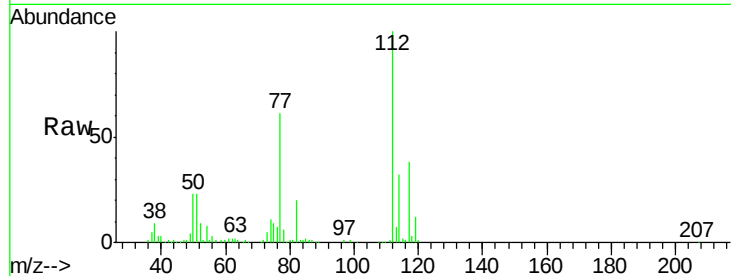
#65
Chlorobenzene
Concen: 20.482 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0401WBSD01

Tot Ion:112 Resp: 216842
Ion Ratio Lower Upper
112 100
114 31.6 25.9 38.9

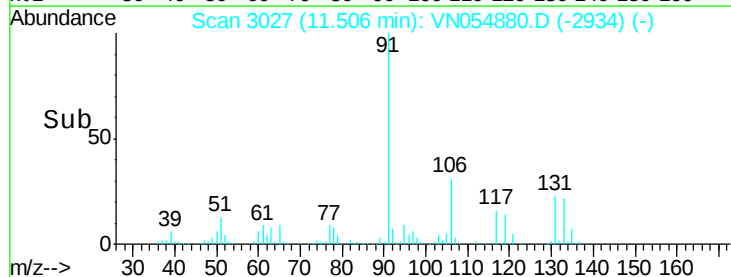
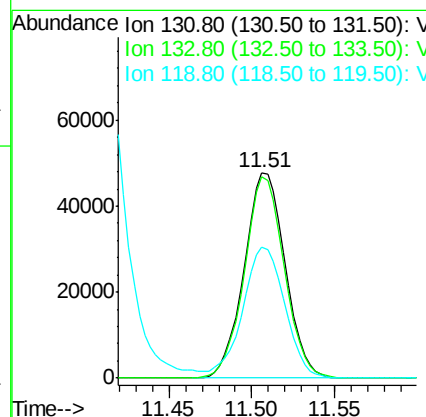
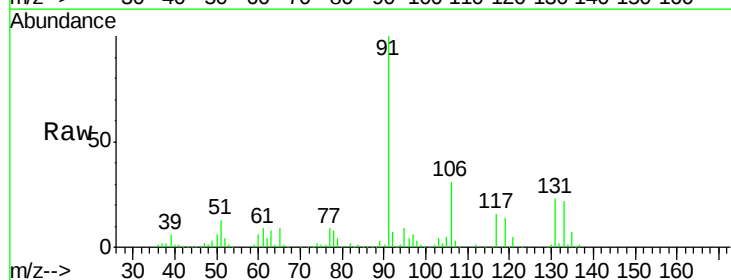
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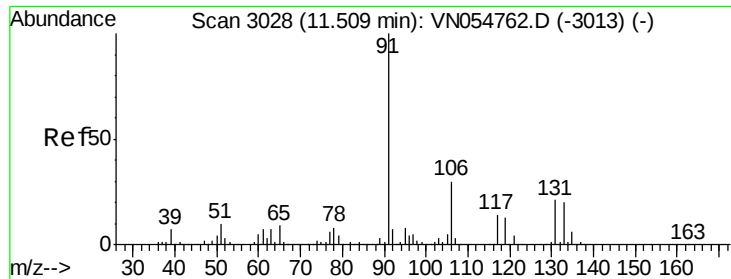
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.740 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion:131 Resp: 82188
Ion Ratio Lower Upper
131 100
133 95.4 47.6 142.9
119 65.8 32.4 97.0





#67

Ethyl Benzene

Concen: 20.672 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 91 Resp: 394933

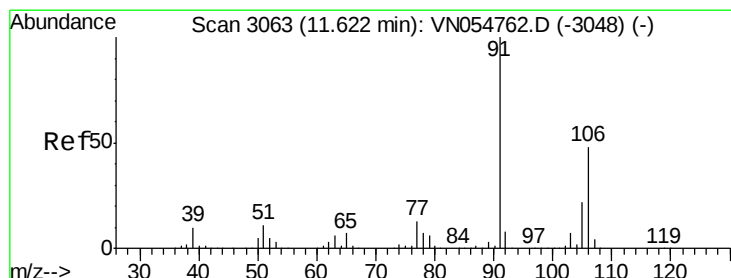
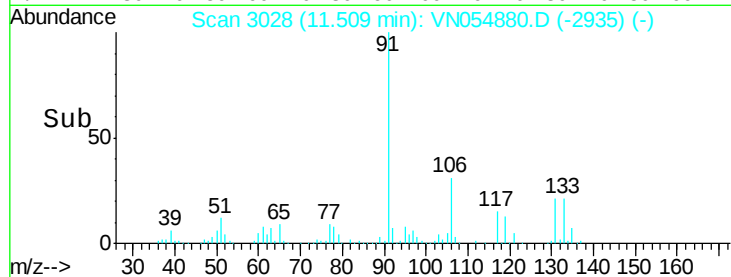
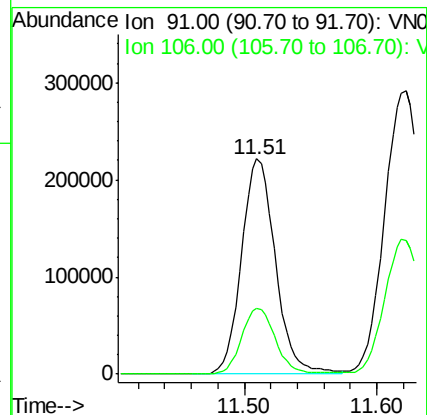
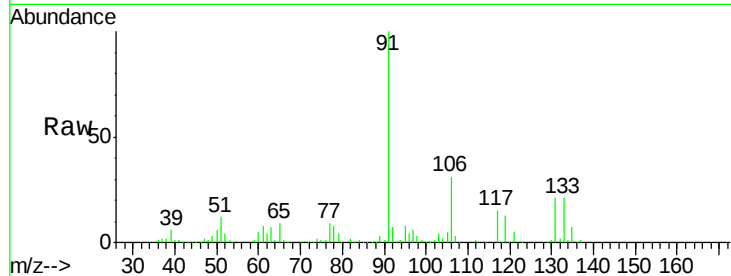
Ion Ratio Lower Upper

91 100

106 30.9 25.5 38.3

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#68

m/p-Xylenes

Concen: 40.270 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054880.D

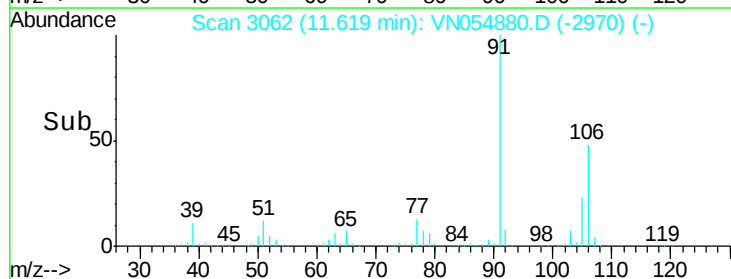
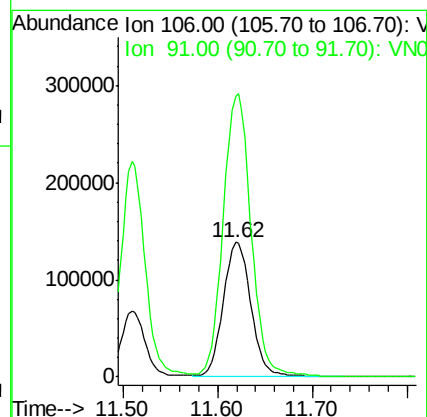
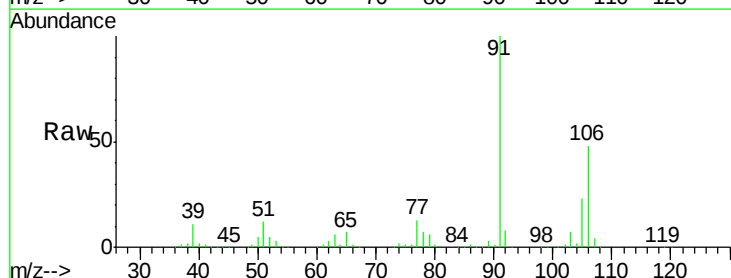
Acq: 1 Apr 2019 17:42

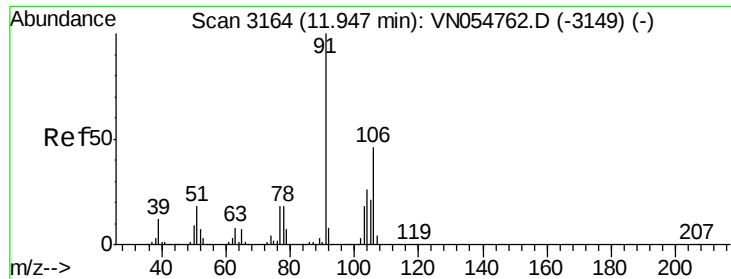
Tgt Ion: 106 Resp: 284710

Ion Ratio Lower Upper

106 100

91 210.9 159.4 239.2





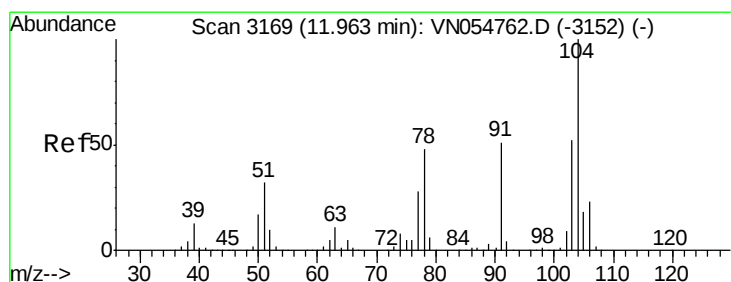
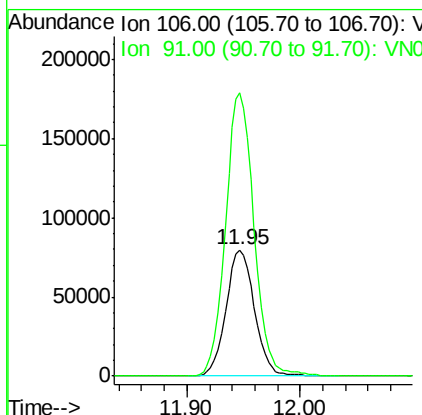
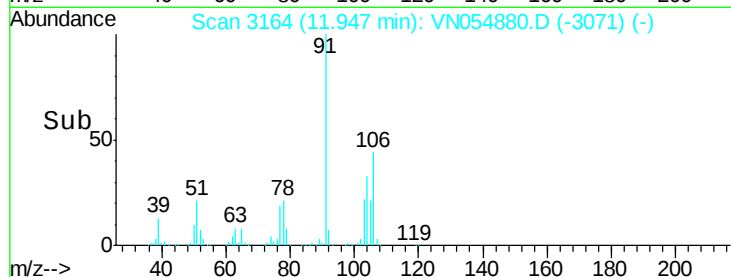
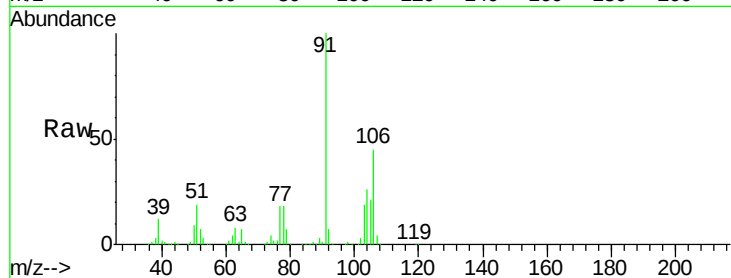
#69
o-Xylene
Concen: 20.212 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion:106 Resp: 140123
Ion Ratio Lower Upper
106 100
91 222.9 105.7 317.1

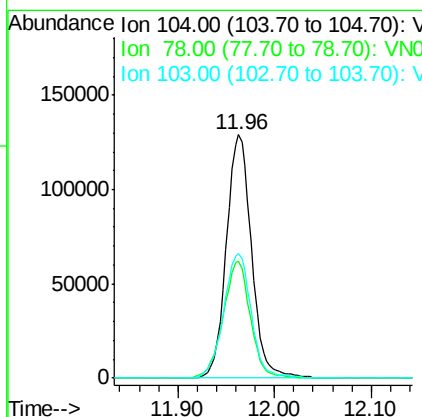
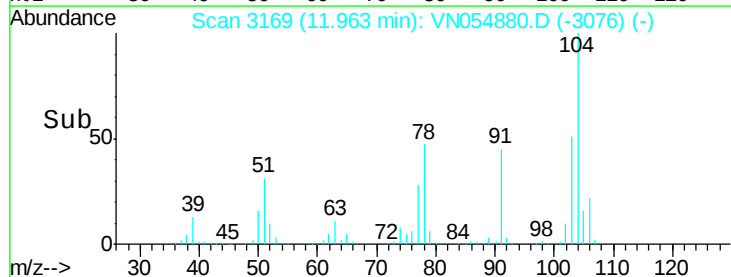
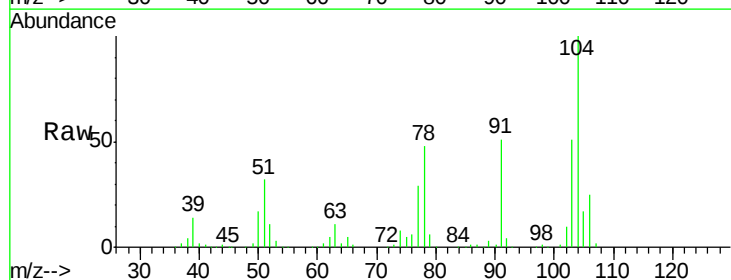
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#70
Styrene
Concen: 21.073 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion:104 Resp: 233594
Ion Ratio Lower Upper
104 100
78 51.9 38.2 57.2
103 55.9 44.4 66.6





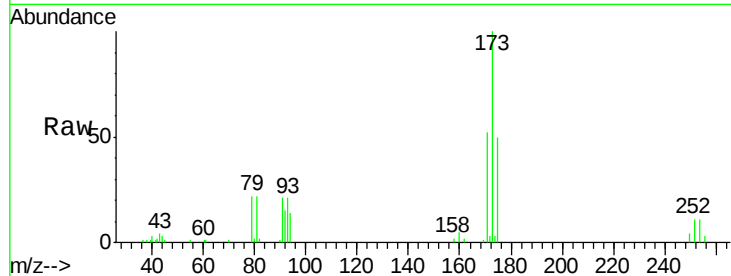
#71
Bromoform
Concen: 19.917 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0401WBSD01

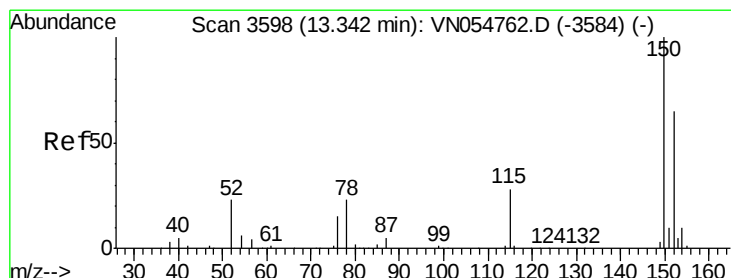
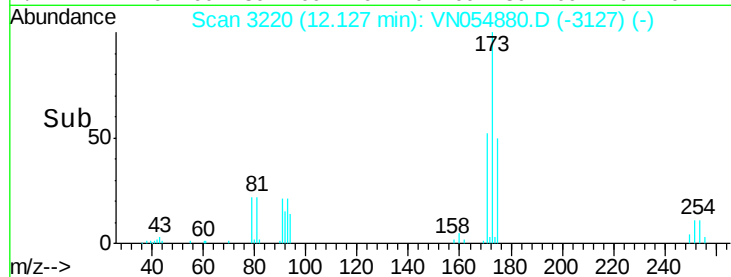
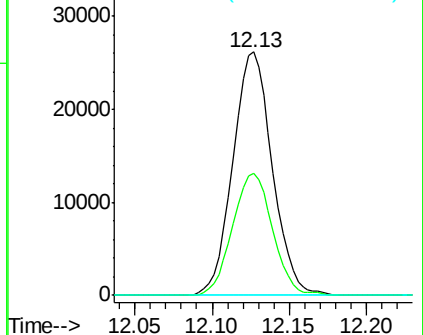
Tot Ion	Ratio	Lower	Upper
173	100		
175	50.8	24.4	73.2
254	0.0	0.1	0.1#

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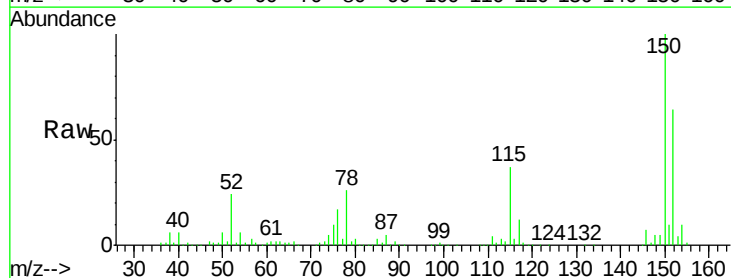


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

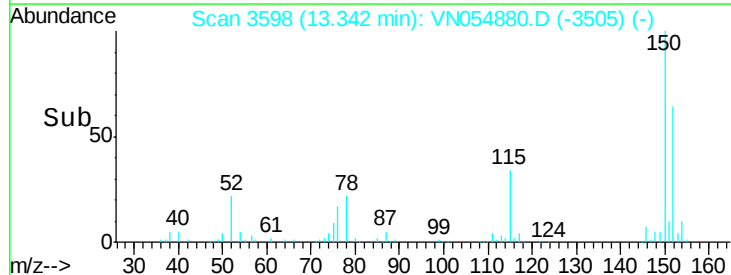
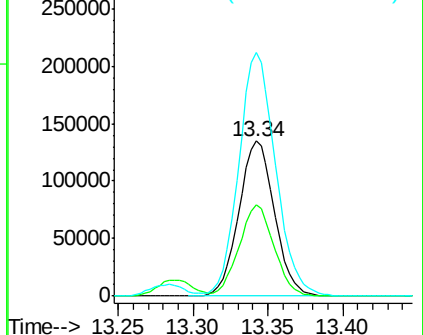


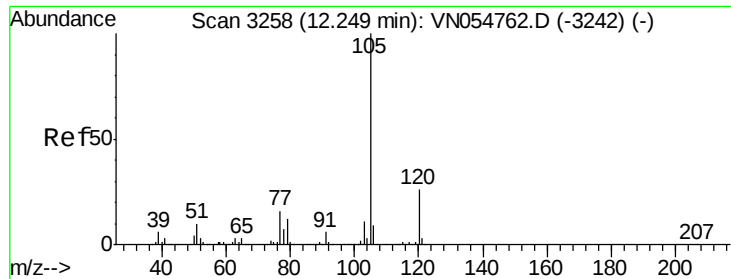
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.5	27.2	81.6
150	161.9	0.0	349.2



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





#73

Isopropylbenzene

Concen: 20.671 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 105 Resp: 378150

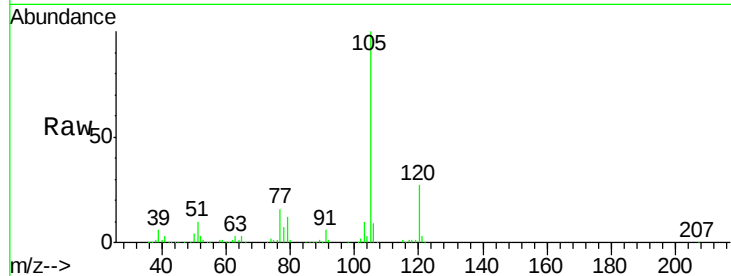
Ion Ratio Lower Upper

105 100

120 26.8 13.8 41.3

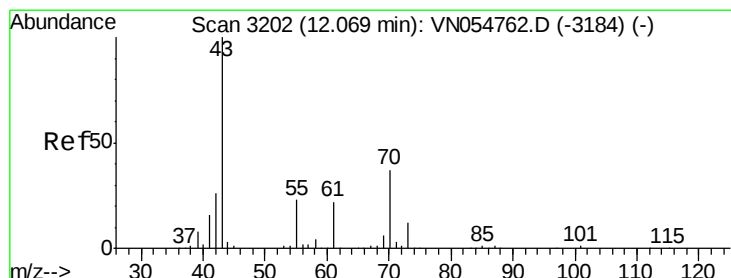
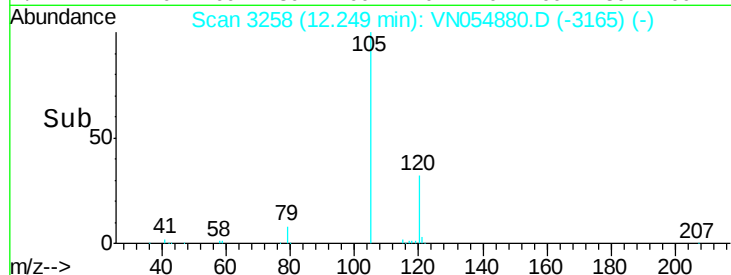
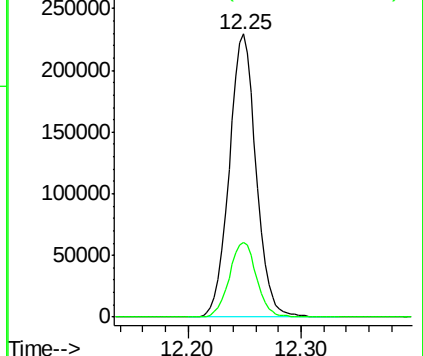
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.238 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Tgt Ion: 43 Resp: 115342

Ion Ratio Lower Upper

43 100

70 35.7 35.4 53.0

55 24.4 19.8 29.6

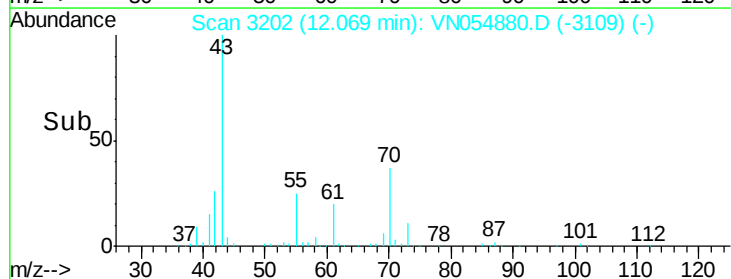
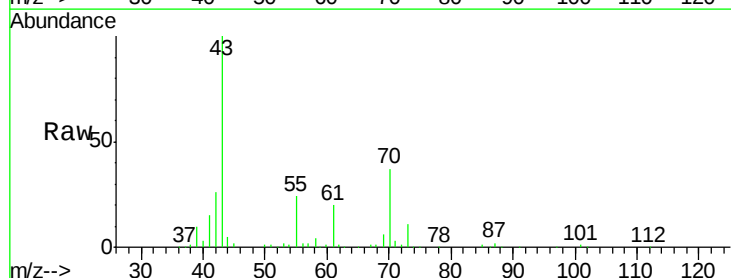
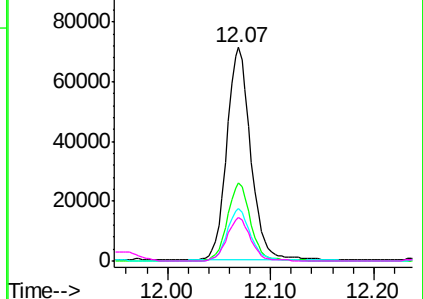
61 20.1 19.8 29.6

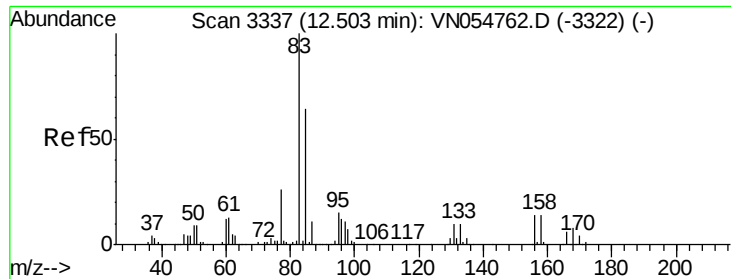
Abundance Ion 43.00 (42.70 to 43.70): V

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: 22.875 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

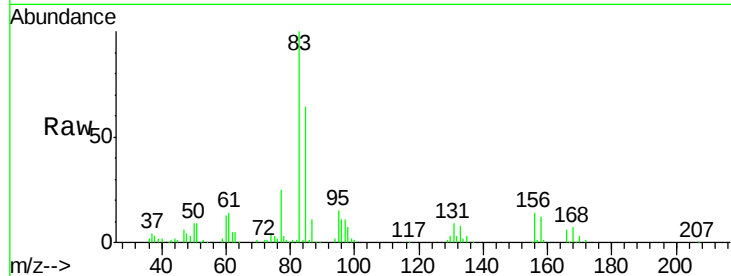
ClientSampled :

VN0401WBSD01

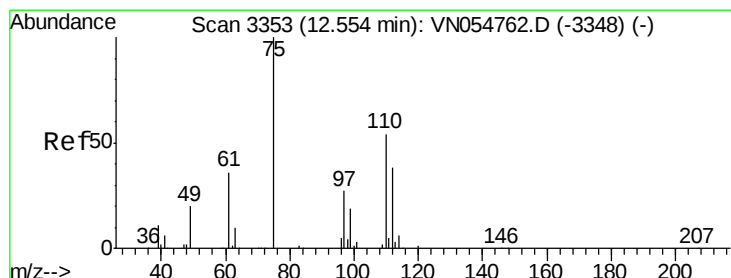
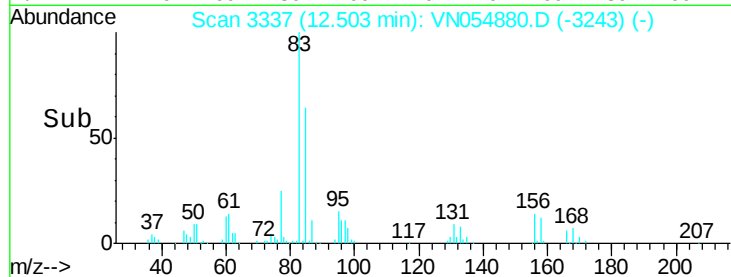
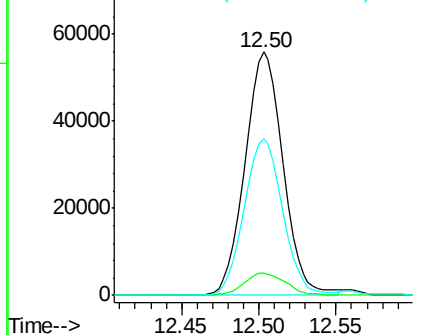
Tot Ion:	83	Resp:	95993
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.8	17.4
85	64.9	32.2	96.6

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN054880.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 19.991 ug/l m

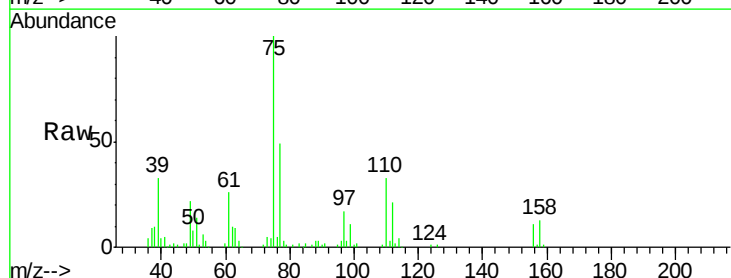
RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

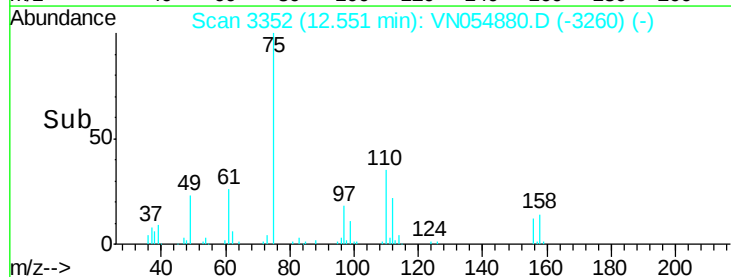
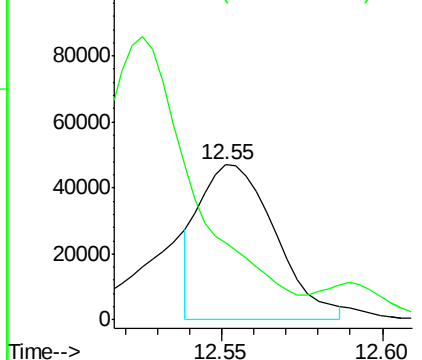
Lab File: VN054880.D

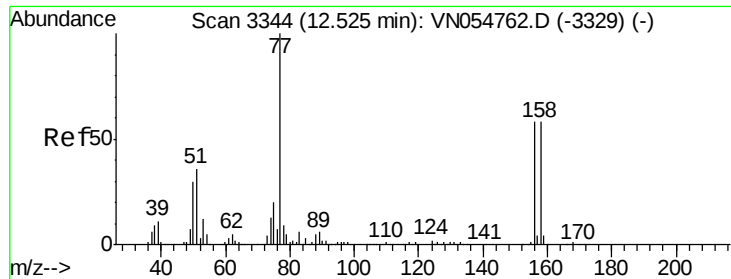
Acq: 1 Apr 2019 17:42

Tgt Ion:	75	Resp:	77726
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054880.D (-3260) (-)





#77

Bromobenzene

Concen: 20.613 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

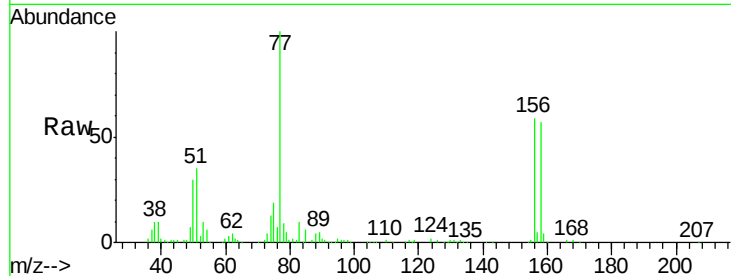
ClientSampleId :

VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	194.1	81.5	244.4
158	96.9	49.0	147.2

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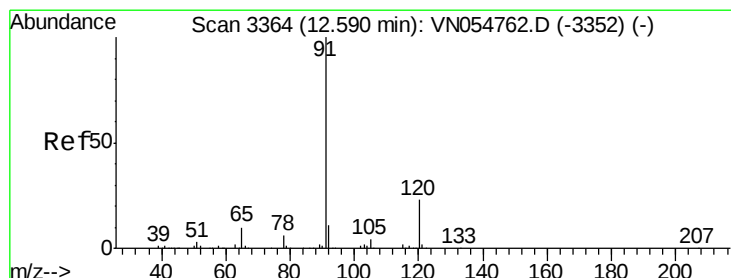
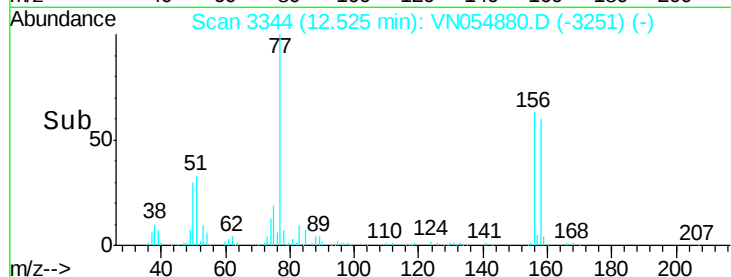
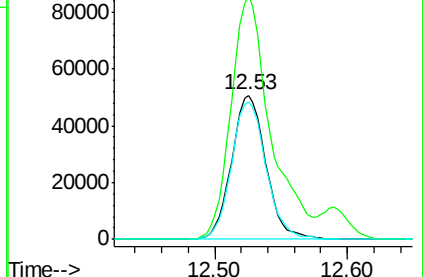
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.544 ug/l

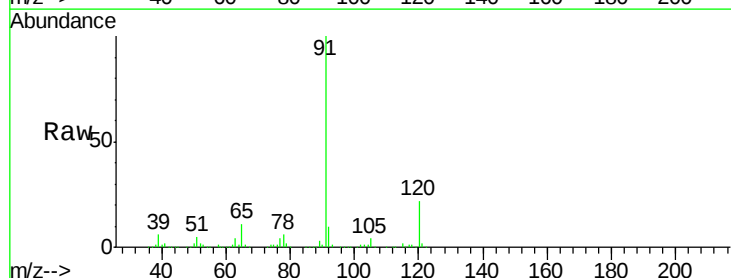
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054880.D

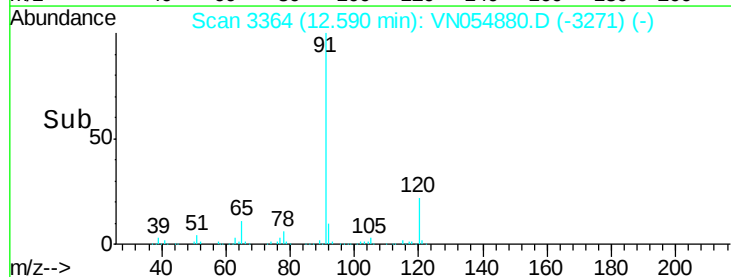
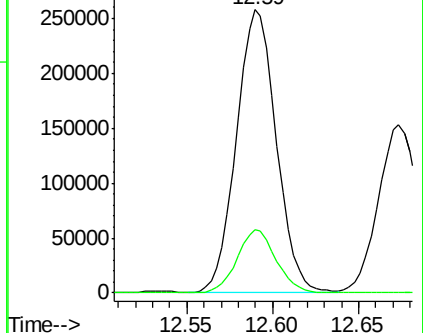
Acq: 1 Apr 2019 17:42

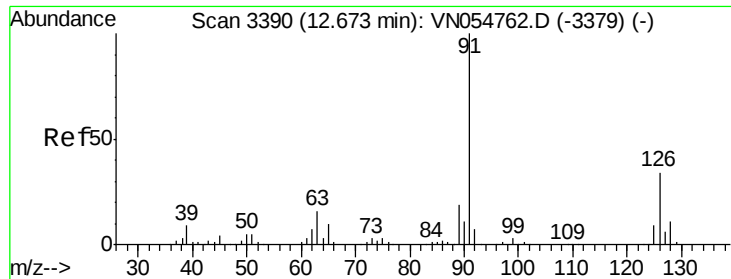
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.0	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.683 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampled :

VN0401WBSD01

Tot Ion: 91 Resp: 257275

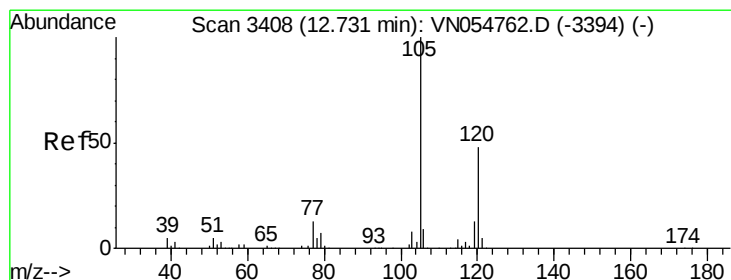
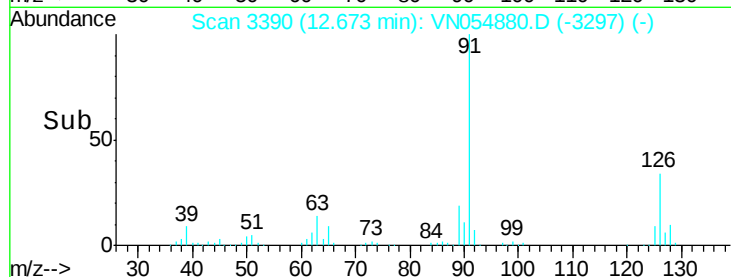
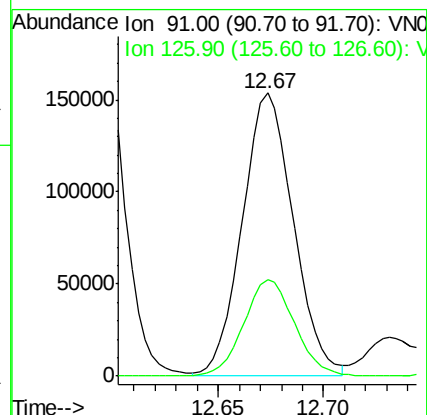
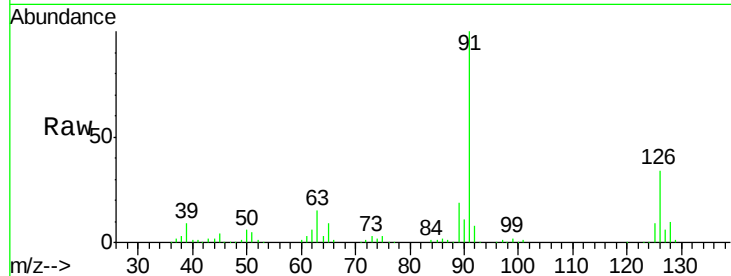
Ion Ratio Lower Upper

91 100

126 34.3 18.7 56.1

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#80

1,3,5-Trimethylbenzene

Concen: 20.684 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054880.D

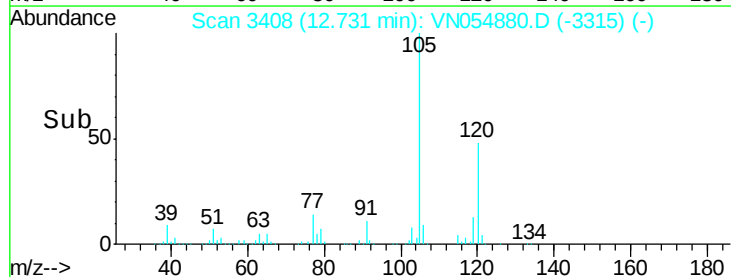
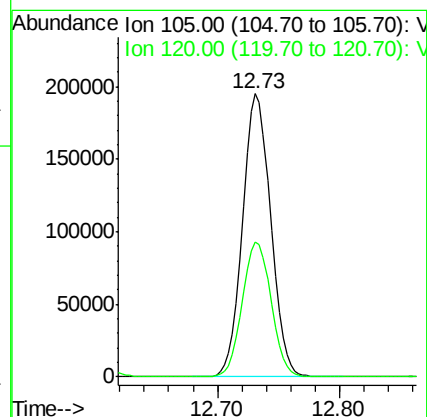
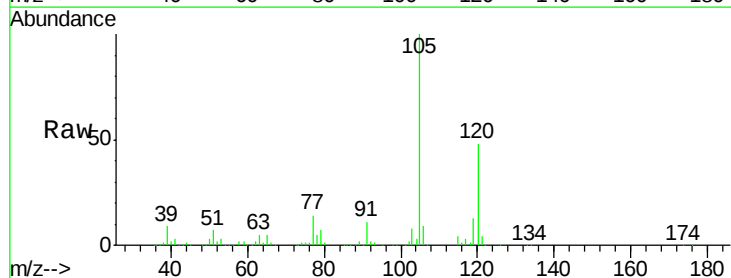
Acq: 1 Apr 2019 17:42

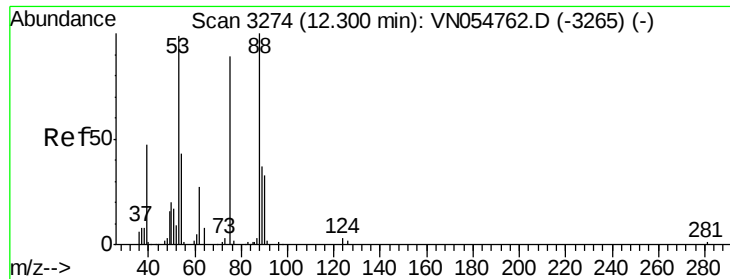
Tgt Ion: 105 Resp: 310474

Ion Ratio Lower Upper

105 100

120 48.9 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 16.986 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

ClientSampleId :

VN0401WBSD01

Tot Ion: 75 Resp: 16979

Ion Ratio Lower Upper

75 100

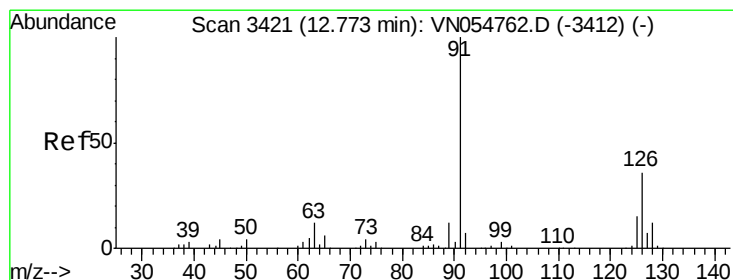
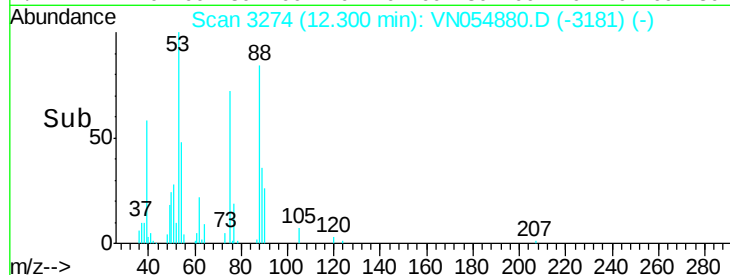
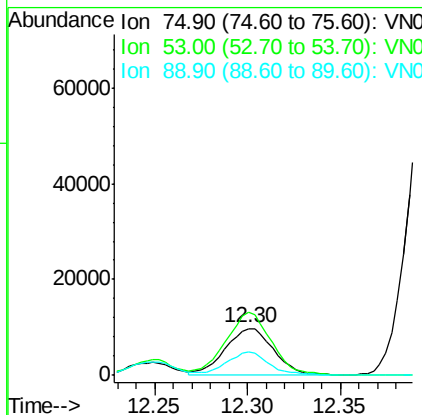
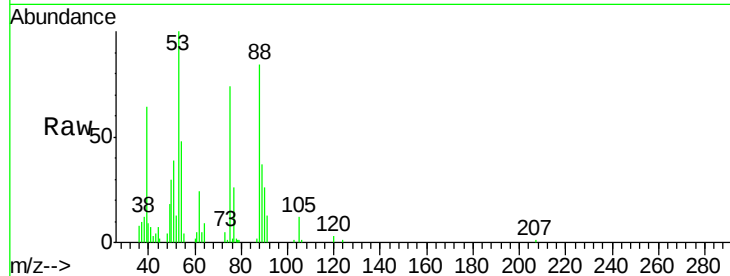
53 134.1 76.2 114.2#

89 45.5 39.2 58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.970 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054880.D

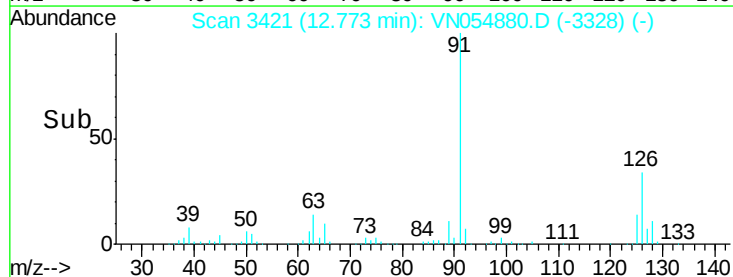
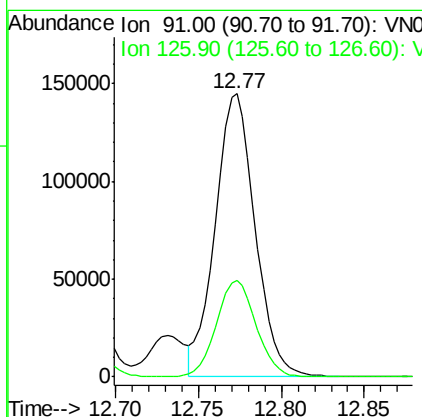
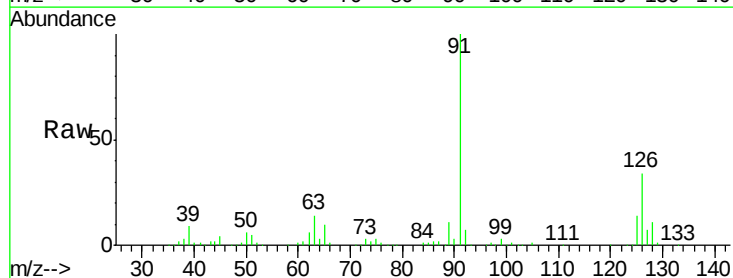
Acq: 1 Apr 2019 17:42

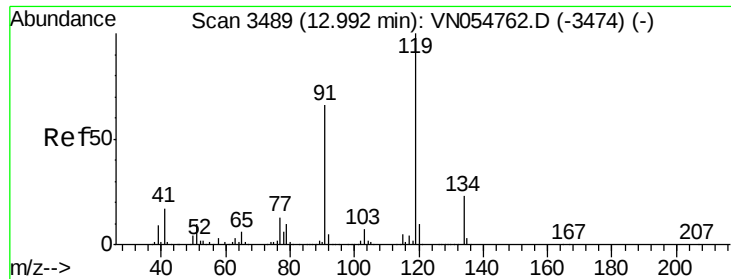
Tgt Ion: 91 Resp: 241275

Ion Ratio Lower Upper

91 100

126 33.9 18.1 54.1





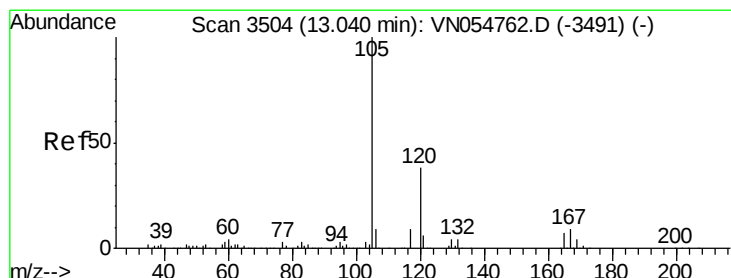
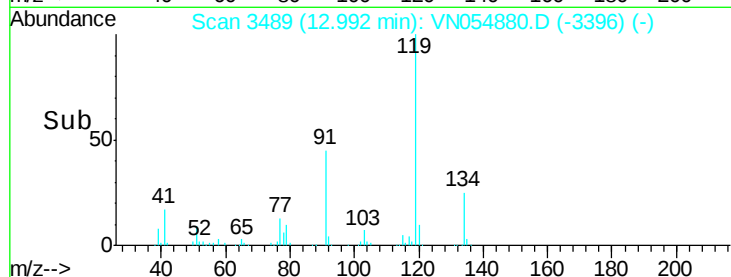
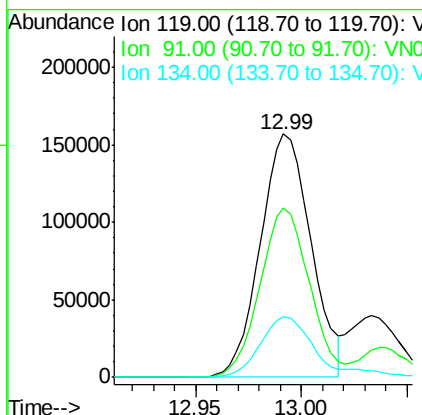
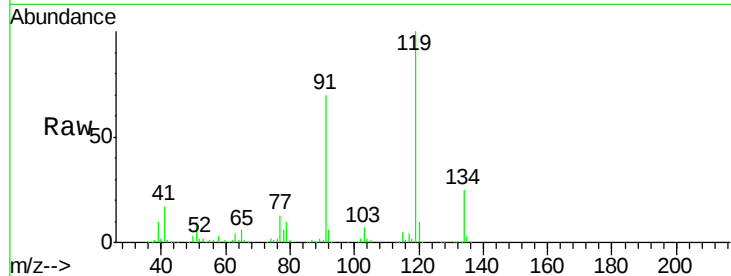
#83
tert-Butylbenzene
Concen: 21.439 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampleId :
VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.7	30.9	92.8
134	27.3	13.2	39.6

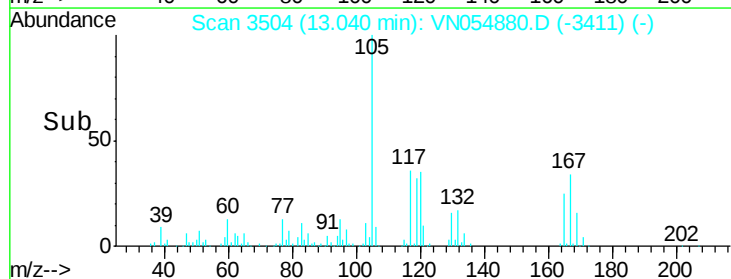
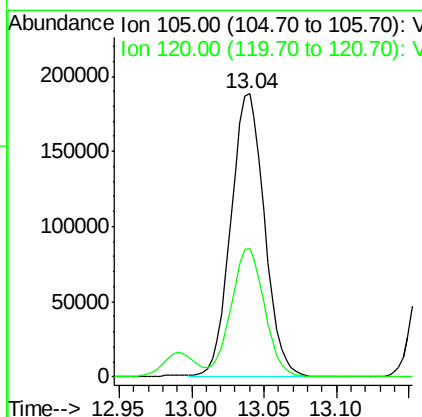
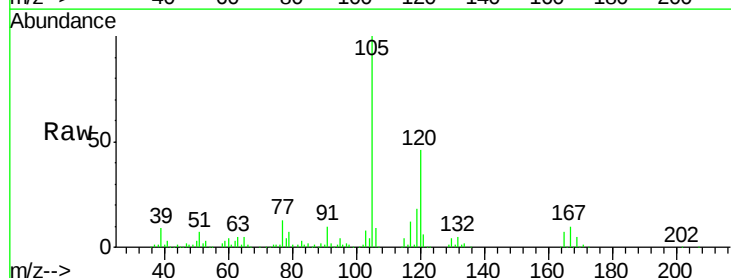
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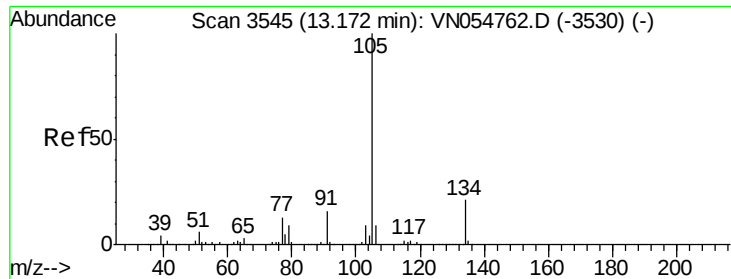
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#84
1,2,4-Trimethylbenzene
Concen: 21.214 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.4	70.3





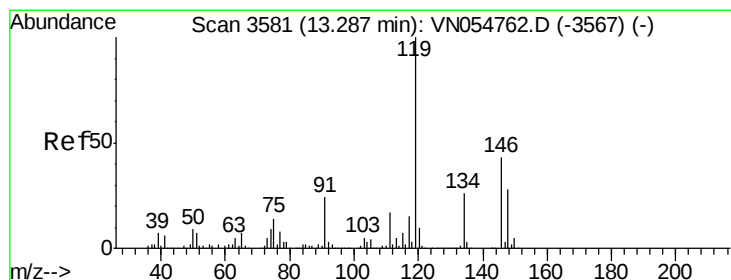
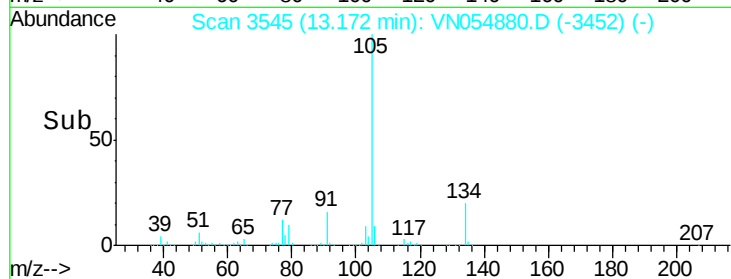
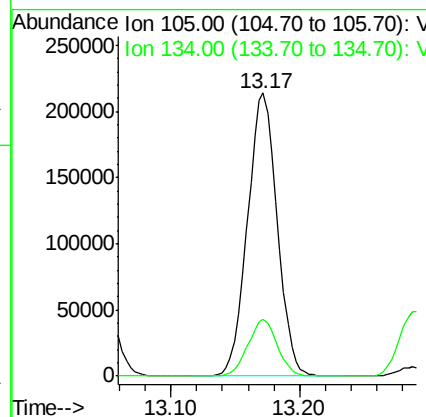
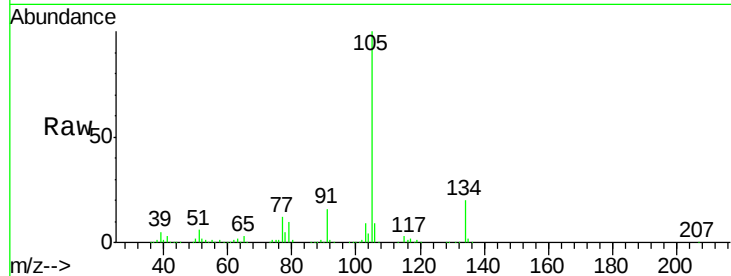
#85
 sec-Butylbenzene
 Concen: 20.982 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.7	32.1

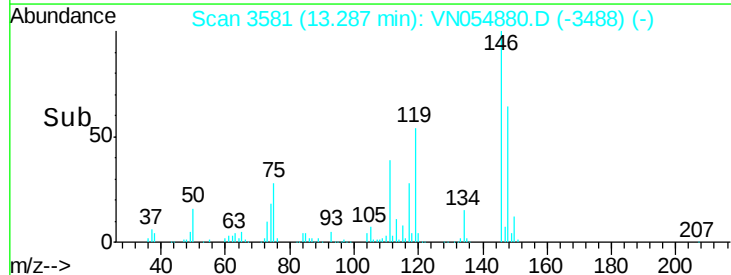
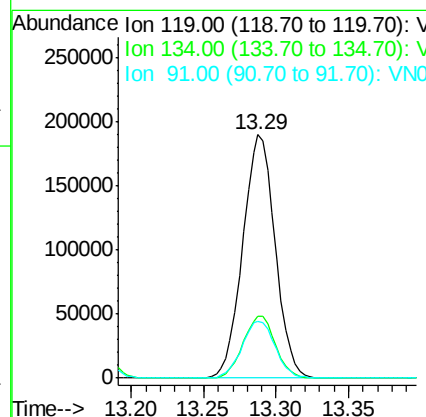
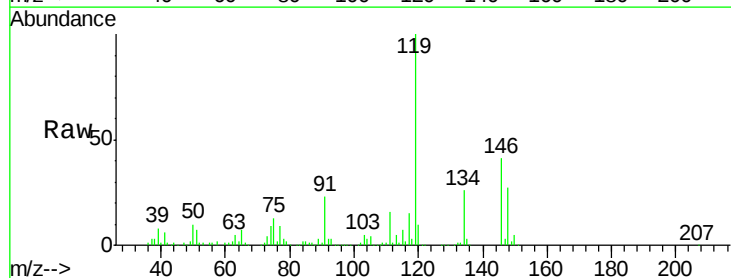
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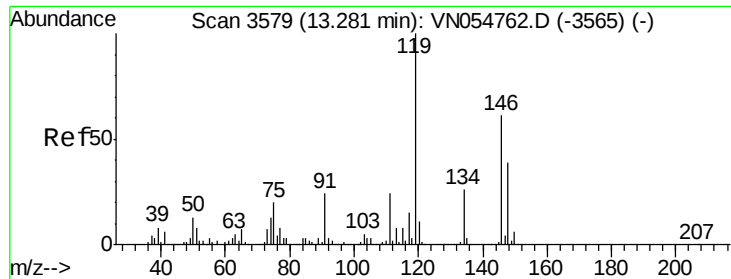
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#86
 p-Isopropyltoluene
 Concen: 20.405 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.6	40.8
91	23.9	11.1	33.3





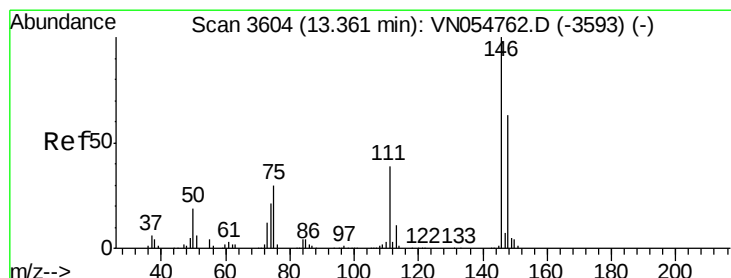
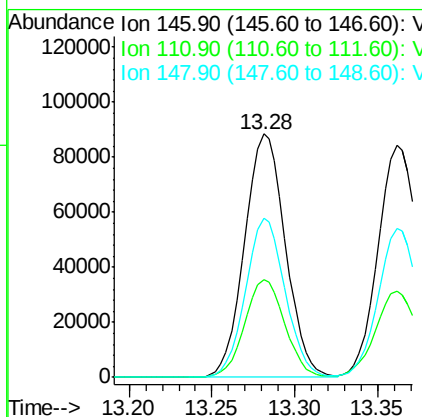
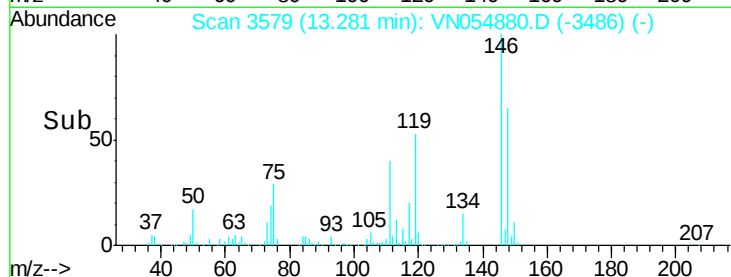
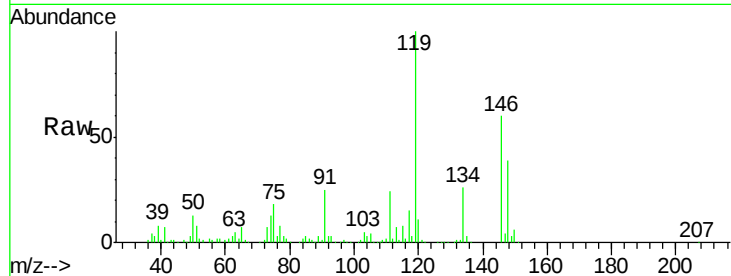
#87
 1,3-Dichlorobenzene
 Concen: 20.521 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	151686		
111	39.1	18.8	56.3	
148	63.1	32.2	96.6	

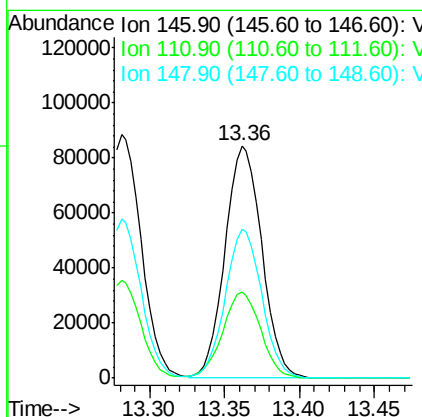
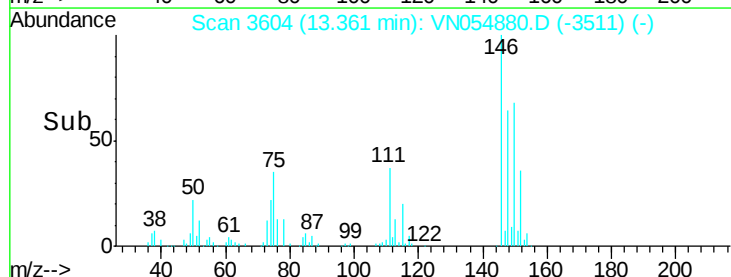
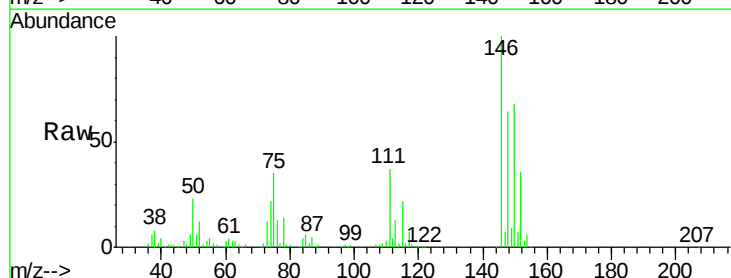
Manual Integrations
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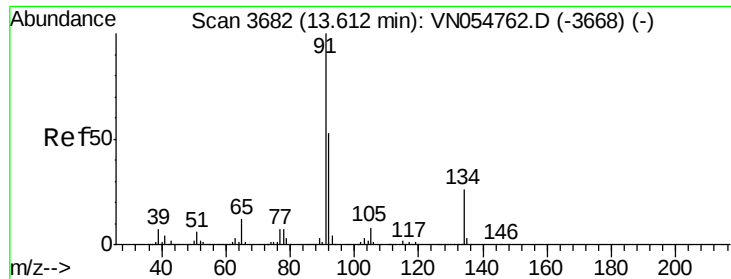
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#88
 1,4-Dichlorobenzene
 Concen: 20.043 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	145313		
111	38.4	18.1	54.1	
148	63.5	32.0	96.0	





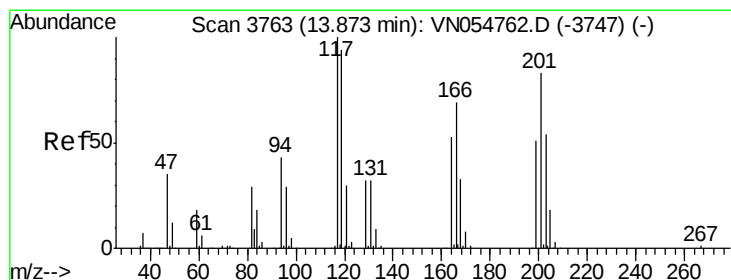
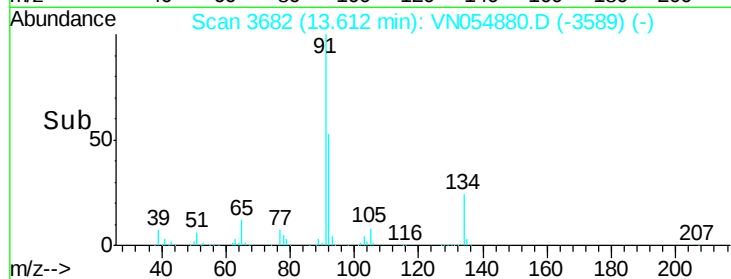
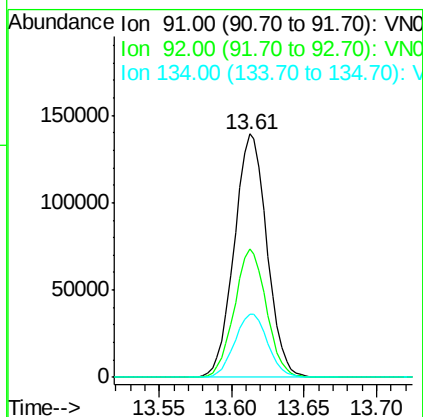
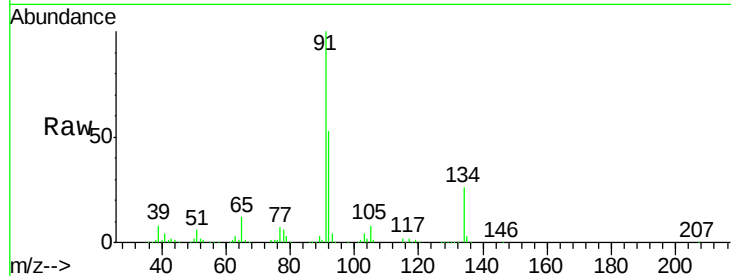
#89
n-Butylbenzene
Concen: 18.588 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Instrument :
MSVOA_N
ClientSampled :
VN0401WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	51.7	26.2	78.6	
134	26.2	14.3	42.9	

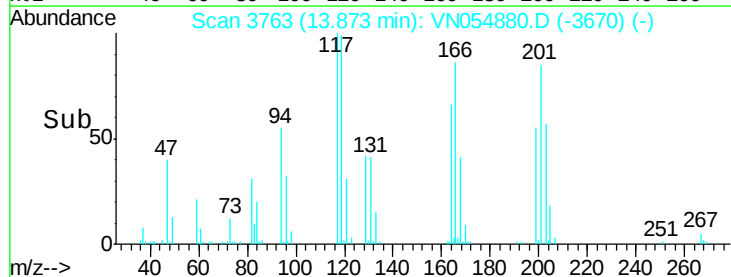
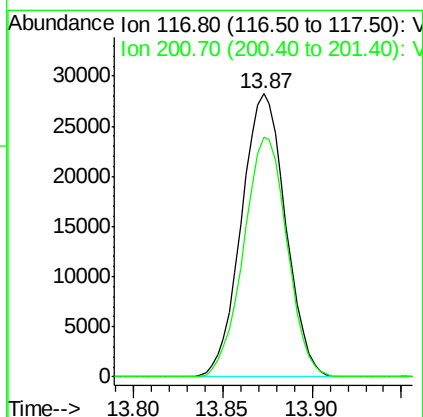
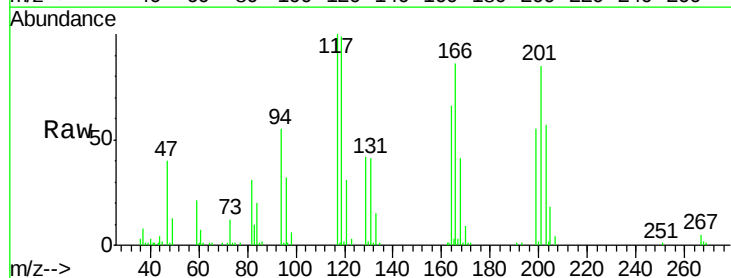
Manual Integrations
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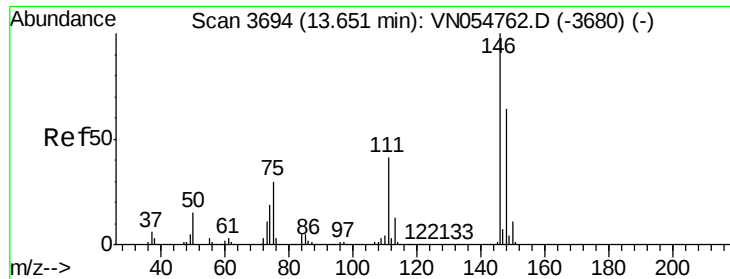
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#90
Hexachloroethane
Concen: 19.995 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054880.D
Acq: 1 Apr 2019 17:42

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
201	83.3	48.1	144.4	





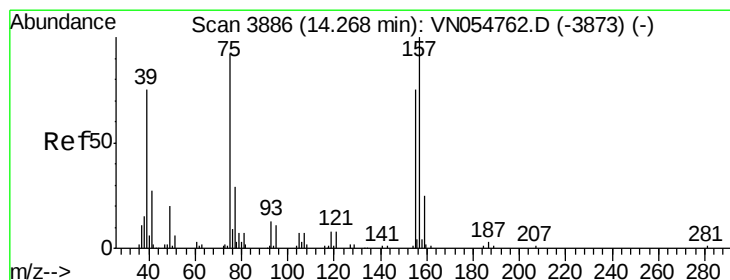
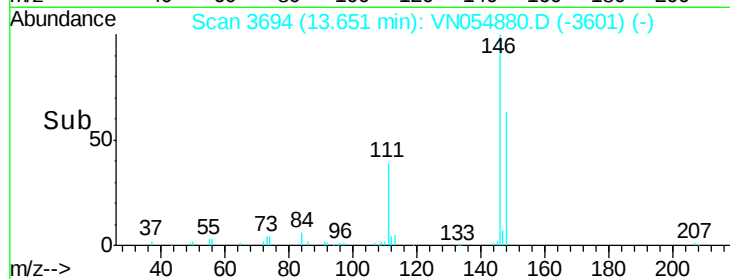
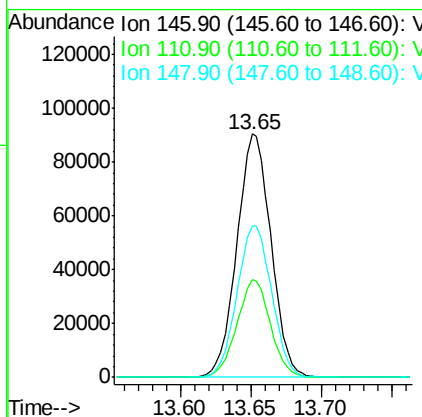
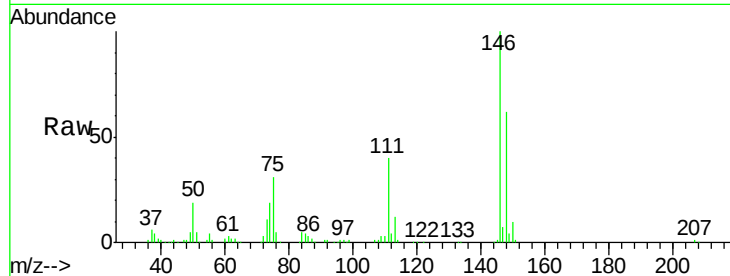
#91
 1,2-Dichlorobenzene
 Concen: 20.541 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.1	57.3
148	63.4	32.4	97.0

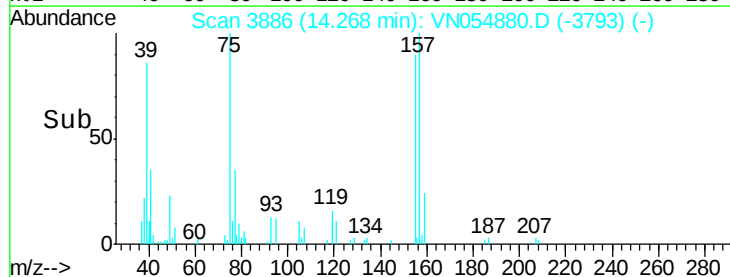
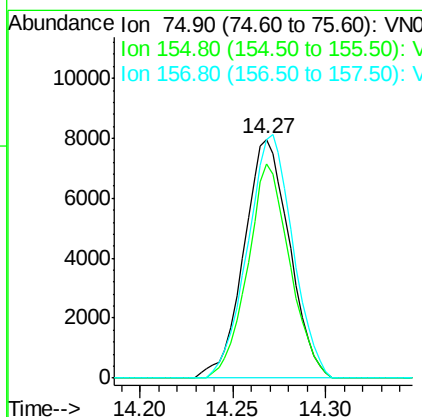
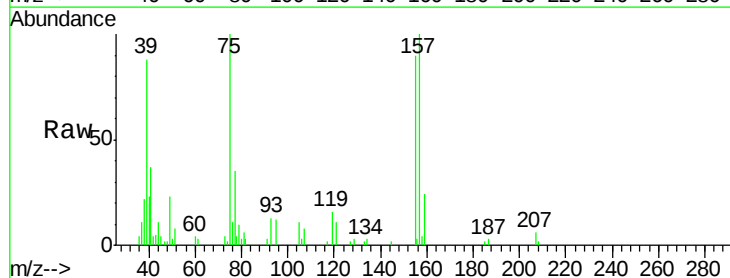
Manual Integrations
 APPROVED

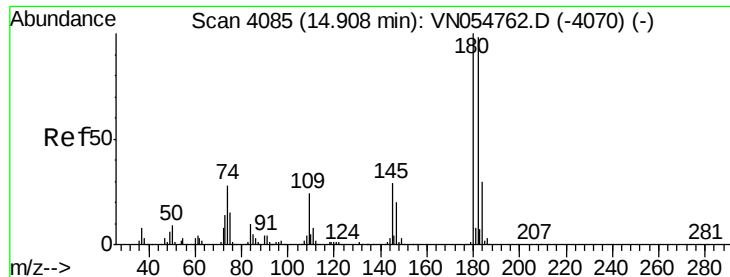
MMDadoda
 4/2/2019 10:51:27 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.619 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.2	50.1	150.3
157	101.7	63.1	189.3





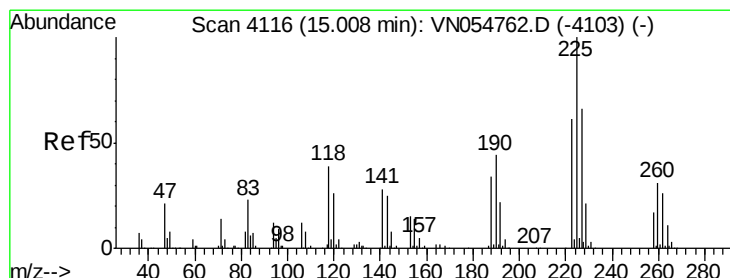
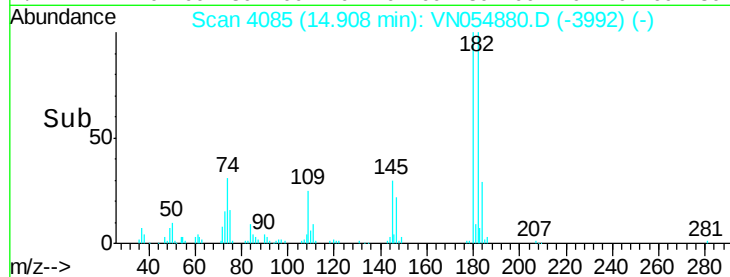
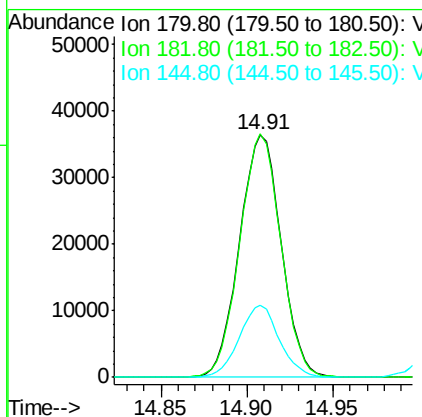
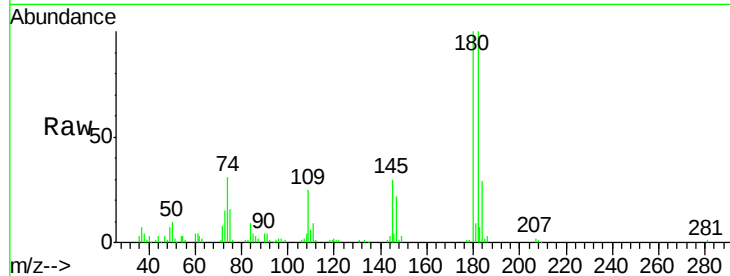
#93
 1,2,4-Trichlorobenzene
 Concen: 17.034 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0401WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.8	48.0	144.2
145	28.8	14.2	42.8

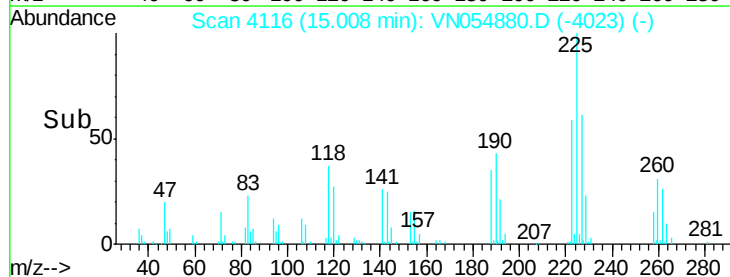
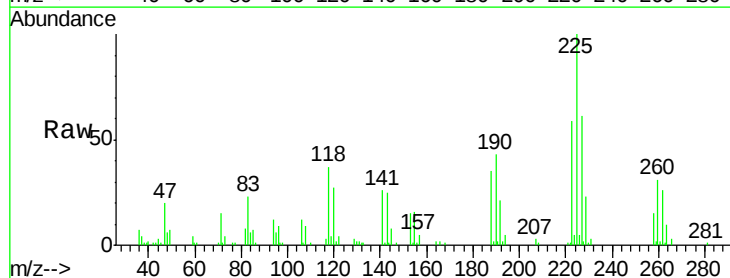
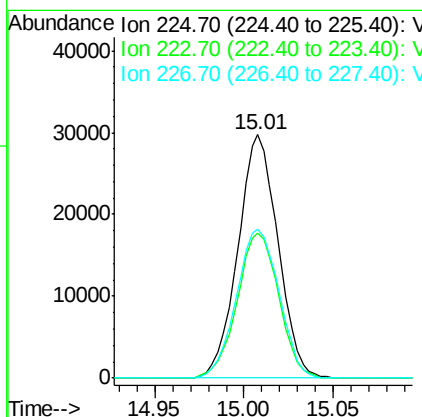
Manual Integrations
 APPROVED

MMDadoda
 4/2/2019 10:51:27 AM



#94
 Hexachlorobutadiene
 Concen: 20.586 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054880.D
 Acq: 1 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.1	93.5
227	65.0	31.9	95.9





#95

Naphthalene

Concen: 17.195 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Instrument :

MSVOA_N

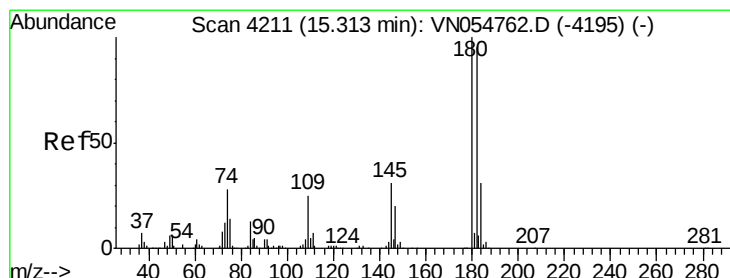
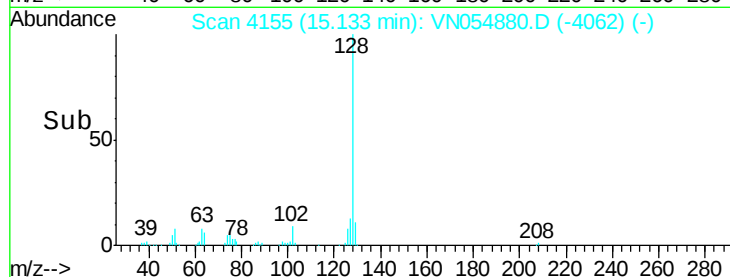
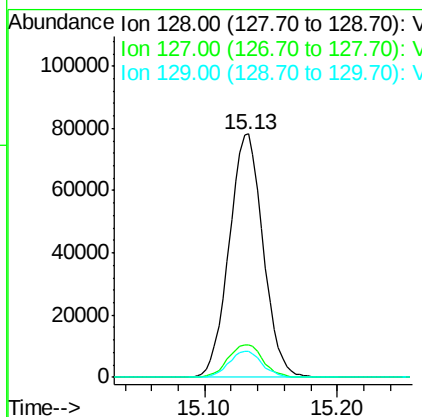
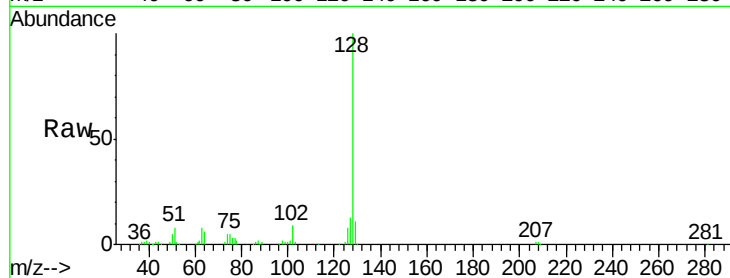
ClientSampled :

VN0401WBSD01

Tot Ion:	128	Resp:	138705
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.1	15.1
129	10.5	8.7	13.1

Manual Integrations
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4/2/2019 10:51:27 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.308 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054880.D

Acq: 1 Apr 2019 17:42

Tgt Ion:	180	Resp:	66498
Ion Ratio	Lower	Upper	
180	100		
182	95.3	47.5	142.6
145	31.0	14.8	44.3

