

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050917.D
 Acq On : 28 Aug 2018 16:34
 Operator : MD\SY
 Sample : VN0828WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0828WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:25 AM

Quant Time: Aug 28 16:52:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 28 14:02:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	126194	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	656529	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	561281	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	236880	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	12.40	95	245105	29.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.90%
63) Toluene-d8	10.09	98	811839	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	155541	19.85	ug/l	98
3) Chloromethane	2.06	50	171613	18.54	ug/l	100
4) Vinyl Chloride	2.18	62	172170	18.83	ug/l	100
5) Bromomethane	2.56	94	97674	17.53	ug/l	98
6) Chloroethane	2.70	64	98885	18.34	ug/l	98
7) Trichlorofluoromethane	3.01	101	231262	19.08	ug/l	98
8) Diethyl Ether	3.41	74	81676	19.11	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	143583	19.13	ug/l	99
10) 1,1-Dichloroethene	3.73	96	130346	19.12	ug/l	93
11) Methyl Iodide	3.95	142	108024	16.98	ug/l	98
12) Methyl Acetate	4.33	43	153406	19.46	ug/l	99
13) Acrolein	3.62	56	13587	77.82	ug/l	94
14) Acrylonitrile	5.00	53	242611	91.00	ug/l	97
15) Acetone	3.82	58	61226	89.75	ug/l	85
16) Carbon Disulfide	4.05	76	383269	18.69	ug/l	99
17) Allyl chloride	4.33	41	196651	18.33	ug/l	94
18) Methylene Chloride	4.55	84	148184	18.51	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	136167	18.74	ug/l	99
20) Diisopropyl ether	5.96	45	436260	19.59	ug/l	99
21) 1,1-Dichloroethane	5.85	63	257573	18.86	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	149754	18.25	ug/l	99
23) tert-Butyl Alcohol	4.80	59	52152	91.99	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	352875	18.92	ug/l	98
25) Chloroform	7.37	83	258239	18.95	ug/l	97
26) Cyclohexane	7.66	56	209598	18.53	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	190242	19.36	ug/l	99
30) 2-Butanone	6.84	43	268215	88.70	ug/l	98
31) 2,2-Dichloropropane	6.83	77	186876	19.54	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	218291	19.59	ug/l	99
33) Carbon Tetrachloride	7.78	117	194758	19.40	ug/l	100
34) Benzene	8.04	78	589239	19.38	ug/l	98
35) Methacrylonitrile	7.18	41	66253	20.00	ug/l	90
36) 1,2-Dichloroethane	8.13	62	179390	19.51	ug/l	99
37) Trichloroethene	8.84	130	152595	19.20	ug/l	96
38) Methylcyclohexane	9.08	83	194593	18.43	ug/l	99
39) 1,2-Dichloropropane	9.12	63	153957	19.39	ug/l	96
40) Dibromomethane	9.21	93	91071	19.04	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	191107	18.95	ug/l	98
42) Vinyl Acetate	5.90	43	1325070	95.14	ug/l	100
43) Ethyl Acetate	6.94	43	121748	19.66	ug/l #	92
44) Isopropyl Acetate	8.17	43	209675	19.18	ug/l	100
45) 1,4-Dioxane	9.20	88	31167	383.86	ug/l	97
46) Methyl methacrylate	9.20	41	103930	18.99	ug/l	96
47) n-amyl Acetate	12.07	43	152629	17.37	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	178421	18.05	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	215023	18.94	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	133574	19.22	ug/l	98
51) Ethyl methacrylate	10.43	69	151496	17.81	ug/l	97
52) 1,3-Dichloropropane	10.71	76	218984	19.02	ug/l	99
53) Dibromochloromethane	10.90	129	145250	18.38	ug/l	99
54) 1,2-Dibromoethane	11.01	107	127311	18.52	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	318108	89.90	ug/l	99
56) Bromoform	12.13	173	98233	17.48	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	618109	96.25	ug/l	98
59) 2-Hexanone	10.75	43	383842	91.44	ug/l	100
61) Tetrachloroethene	10.63	164	140006	20.02	ug/l	97
62) Toluene	10.16	91	607719	19.41	ug/l	99
64) Chlorobenzene	11.44	112	368433	18.98	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	144645	19.74	ug/l	99
66) Ethyl Benzene	11.51	91	606349	18.69	ug/l	99
67) m/p-Xylenes	11.62	106	474442	38.02	ug/l	100
68) o-Xylene	11.95	106	228829	19.19	ug/l	100
69) Styrene	11.97	104	353423	18.64	ug/l	99
70) Isopropylbenzene	12.25	105	604639	19.08	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	167765	19.56	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	126450m	18.77	ug/l	
73) Bromobenzene	12.53	156	155935	18.70	ug/l	99
74) n-propylbenzene	12.59	91	672624	18.78	ug/l	99
75) 2-Chlorotoluene	12.68	91	410748	18.87	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	492708	19.03	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	36699	17.40	ug/l	96
78) 4-Chlorotoluene	12.77	91	402124	18.77	ug/l	99
79) tert-butylbenzene	12.99	119	423342	18.83	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	494746	19.16	ug/l	98
81) sec-Butylbenzene	13.17	105	556254	18.91	ug/l	100
82) p-Isopropyltoluene	13.29	119	471511	18.57	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	257170	18.25	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	243620	18.24	ug/l	99
85) n-Butylbenzene	13.62	91	339796	17.53	ug/l	99
86) Hexachloroethane	13.88	117	89024	18.26	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	258566	18.64	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22490	18.74	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	102498	16.60	ug/l	99
90) Hexachlorobutadiene	15.01	225	83292	19.85	ug/l	98
91) Naphthalene	15.14	128	210547	19.48	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	110806	17.88	ug/l	97

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ClientSampleId :
VN0828WBSD01

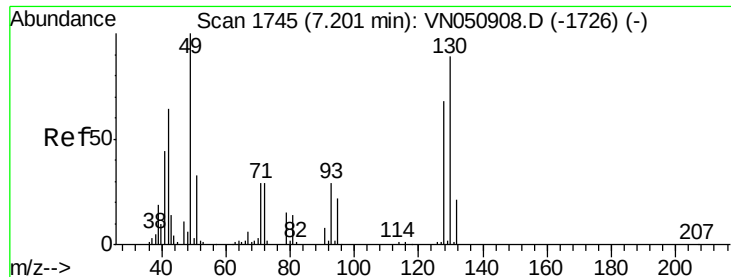
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



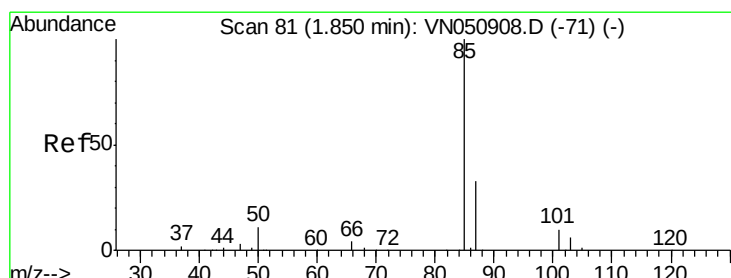
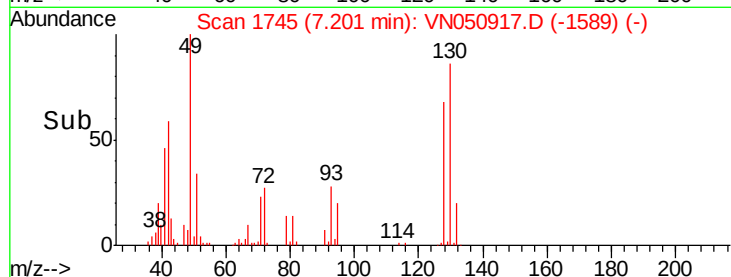
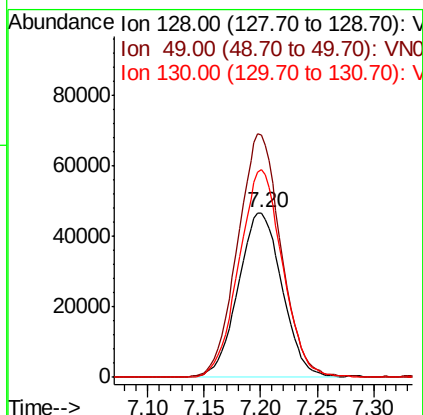
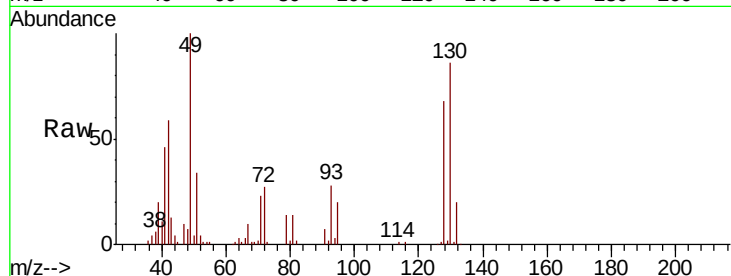
#1
 Bromochloromethane
 Concen: 30.00 ug/l
 RT: 7.20 min Scan# 1745
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	126194		
49	146.3	0.0	378.3	
130	125.7	0.0	320.7	

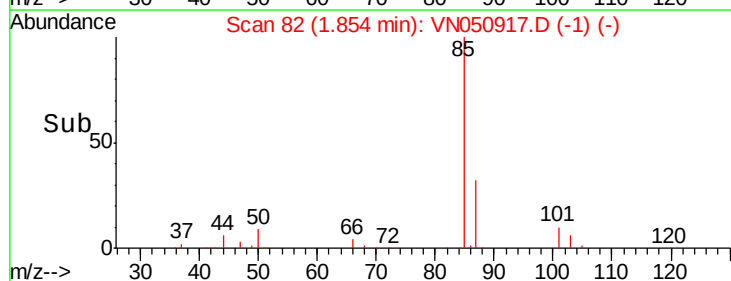
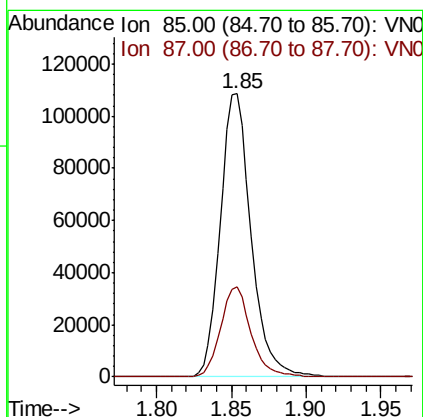
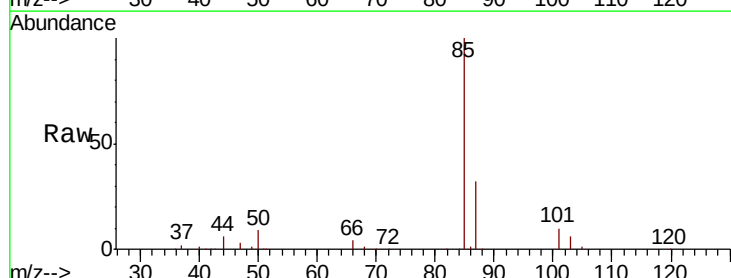
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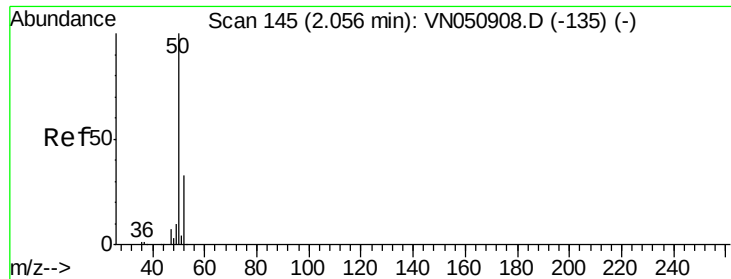
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#2
 Dichlorodifluoromethane
 Concen: 19.85 ug/l
 RT: 1.85 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	155541		
87	31.7	15.4	46.4	





#3

Chloromethane

Concen: 18.54 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 50 Resp: 171613

Ion Ratio Lower Upper

50 100

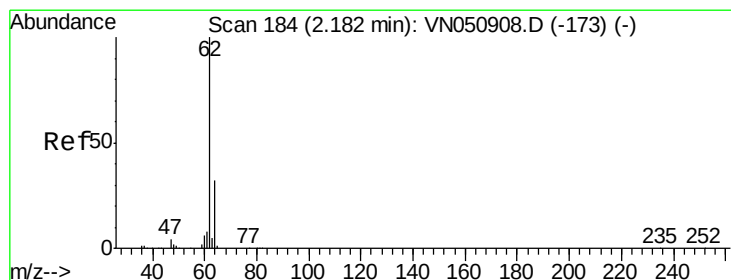
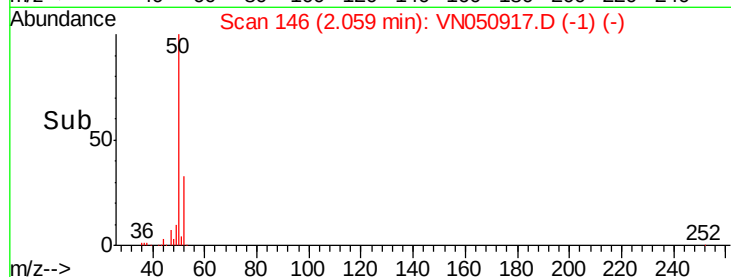
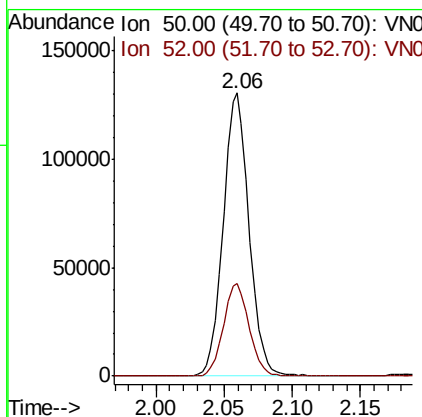
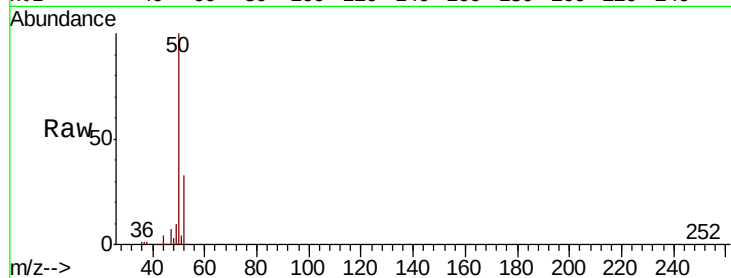
52 32.8 26.1 39.1

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#4

Vinyl Chloride

Concen: 18.83 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050917.D

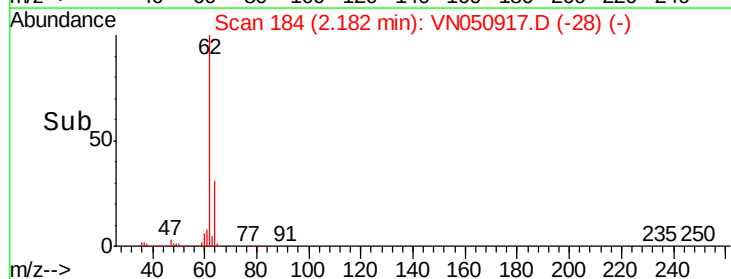
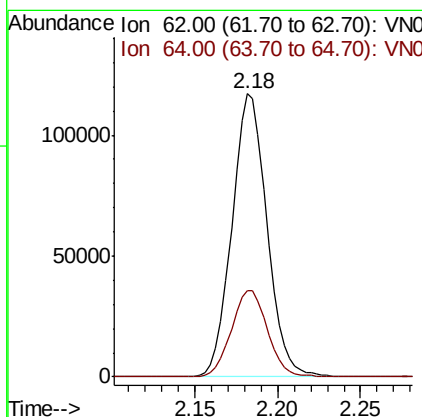
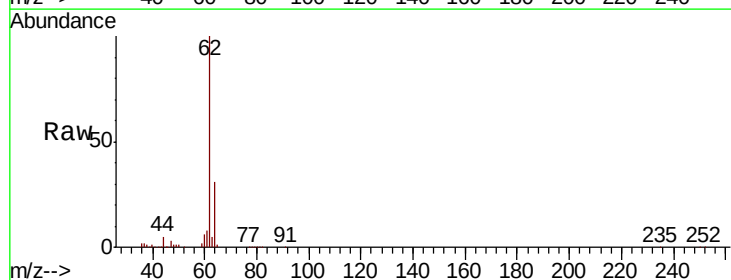
Acq: 28 Aug 2018 16:34

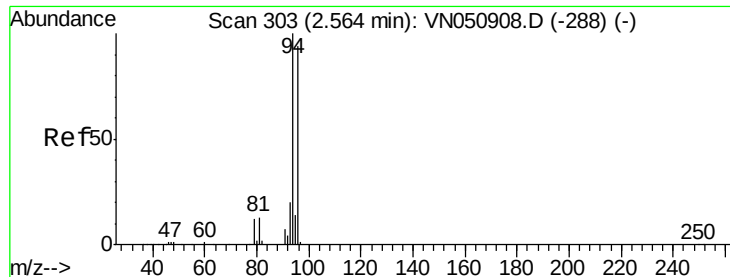
Tgt Ion: 62 Resp: 172170

Ion Ratio Lower Upper

62 100

64 30.7 24.4 36.6





#5

Bromomethane

Concen: 17.53 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 94 Resp: 97674

Ion Ratio Lower Upper

94 100

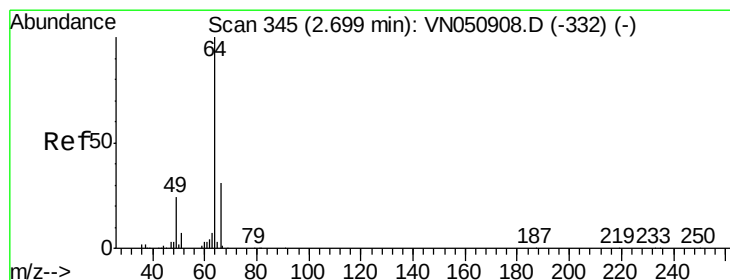
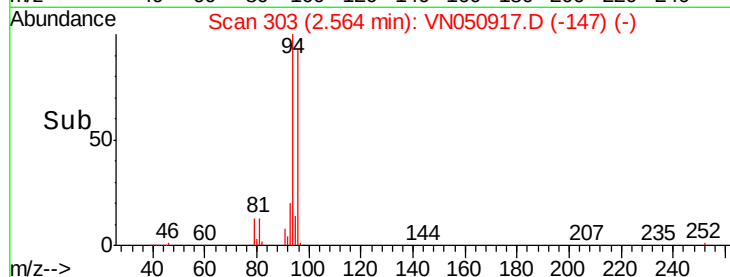
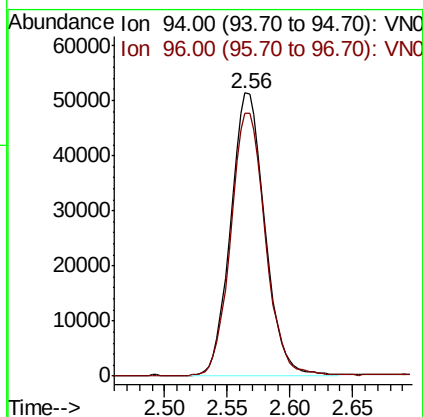
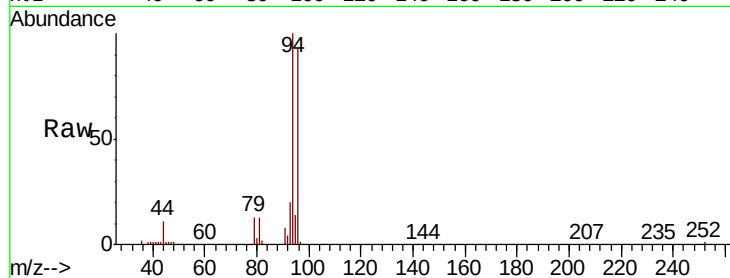
96 93.1 75.9 113.9

Manual Integrations

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#6

Chloroethane

Concen: 18.34 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050917.D

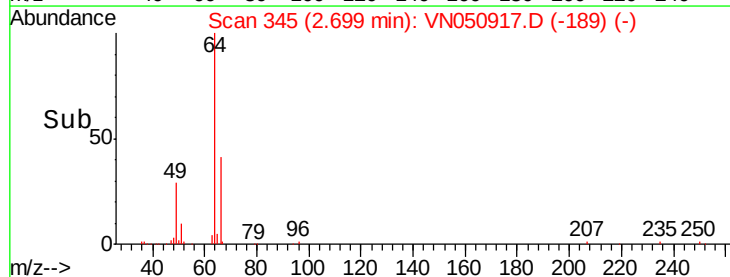
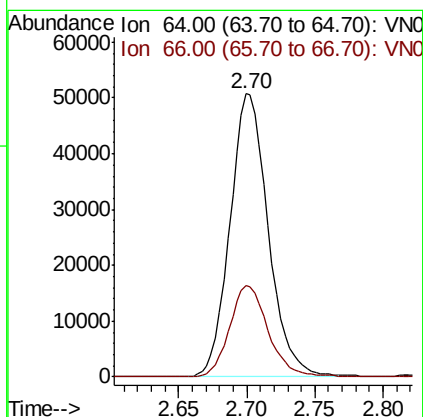
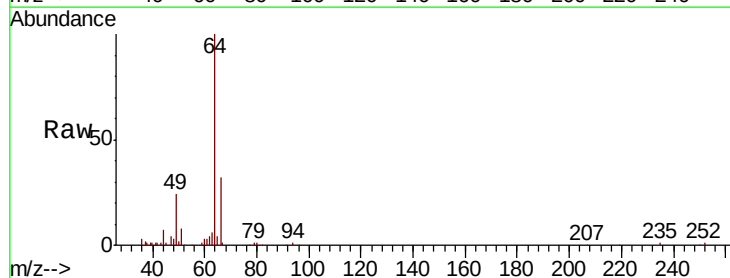
Acq: 28 Aug 2018 16:34

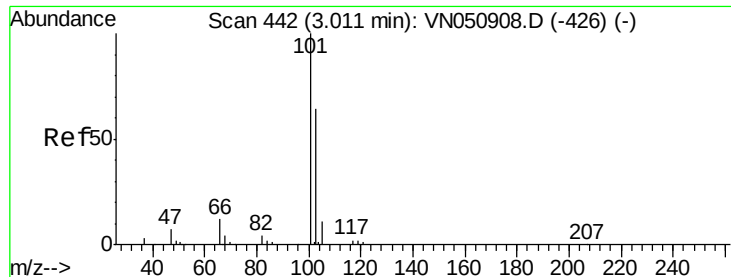
Tgt Ion: 64 Resp: 98885

Ion Ratio Lower Upper

64 100

66 32.1 25.0 37.4





#7

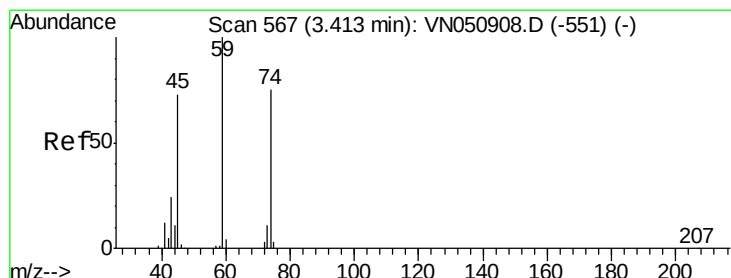
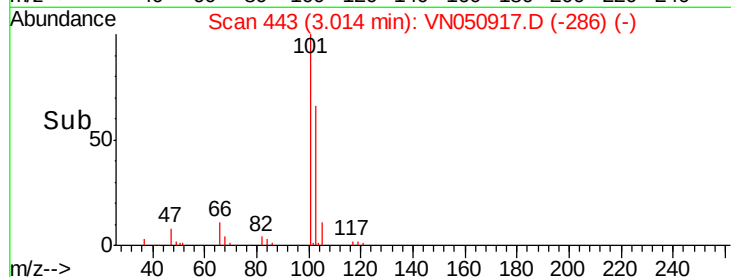
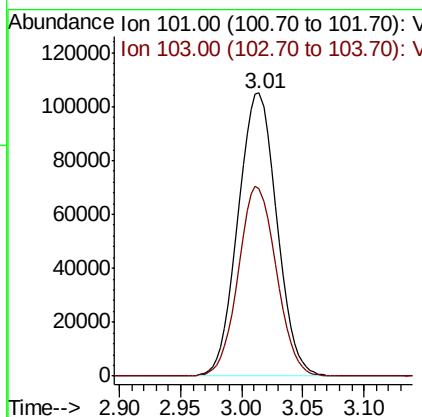
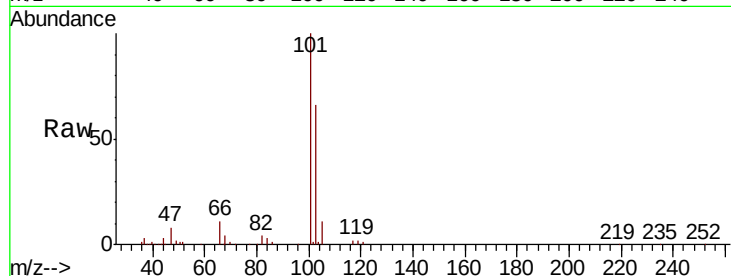
Trichlorofluoromethane
 Concen: 19.08 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		231262		
103	66.2	51.5	77.3		

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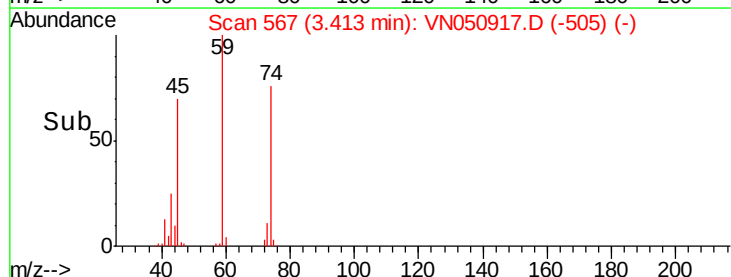
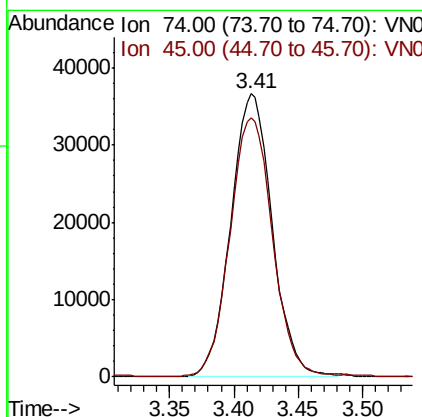
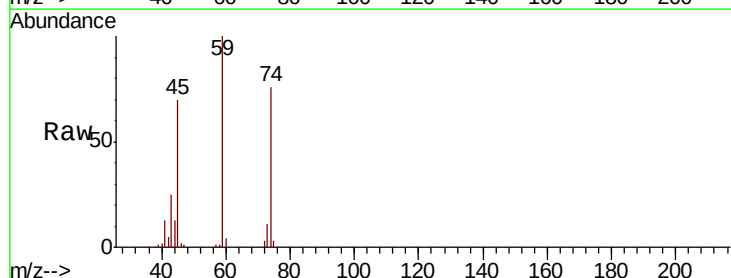
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 8/29/2018 11:10:25 AM

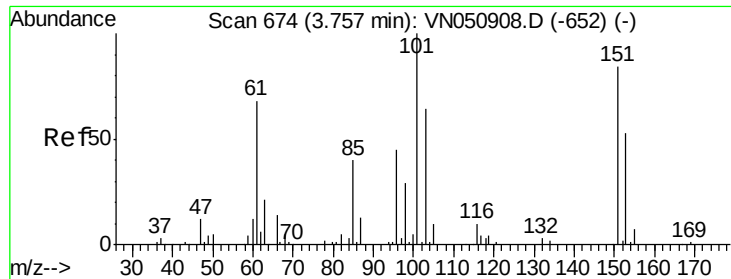


#8

Diethyl Ether
 Concen: 19.11 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		81676		
45	94.5	18.7	167.9		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.13 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

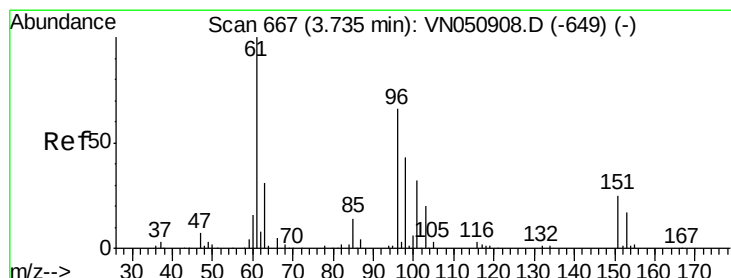
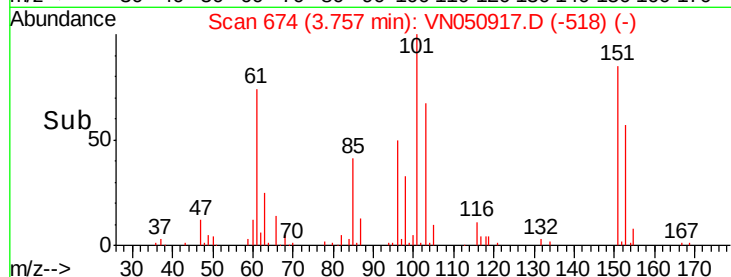
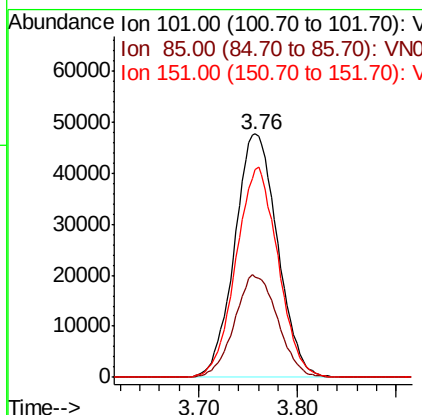
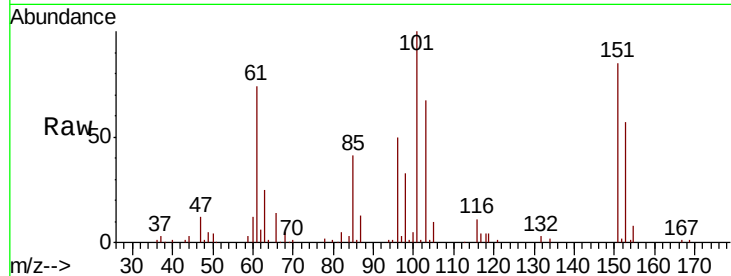
ClientSampleId :

VN0828WBSD01

Tot Ion:	101	Resp:	143583
Ion Ratio	Lower	Upper	
101	100		
85	42.1	0.0	83.0
151	84.7	0.0	166.8

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#10

1,1-Dichloroethene

Concen: 19.12 ug/l

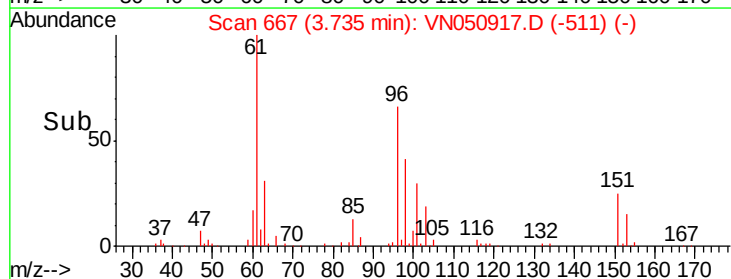
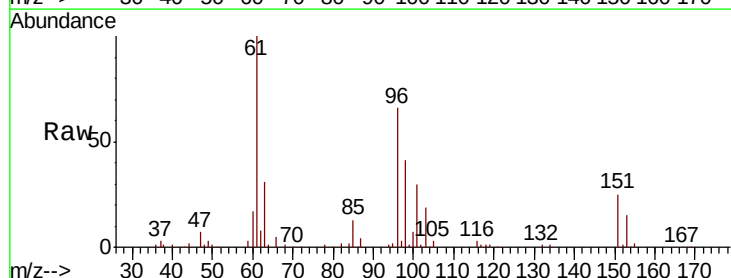
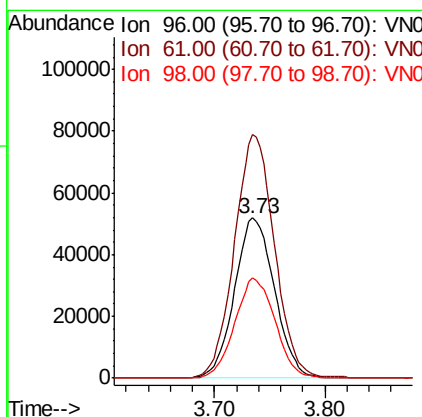
RT: 3.73 min Scan# 667

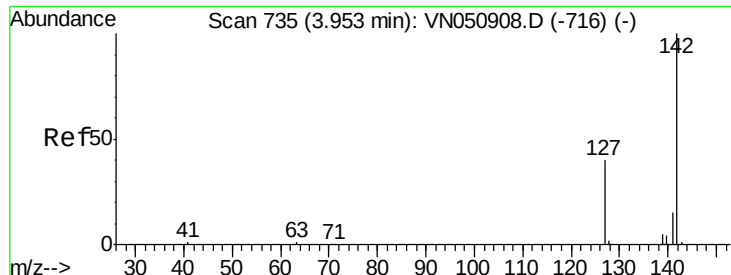
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	96	Resp:	130346
Ion Ratio	Lower	Upper	
96	100		
61	152.3	130.6	195.8
98	62.9	53.5	80.3





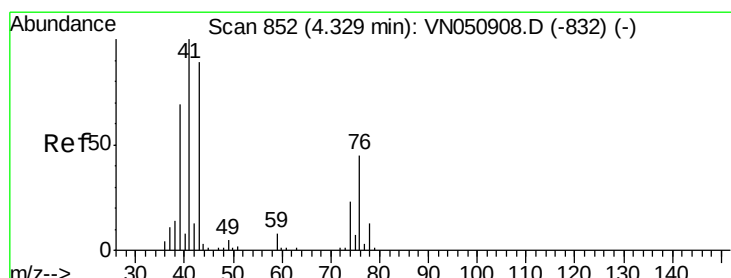
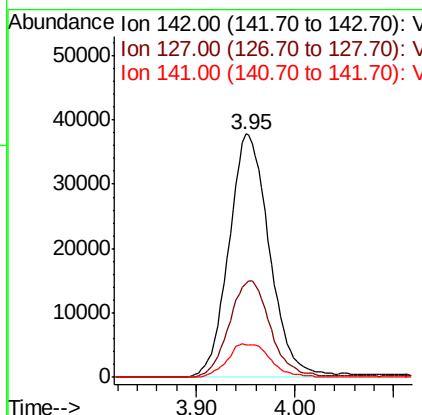
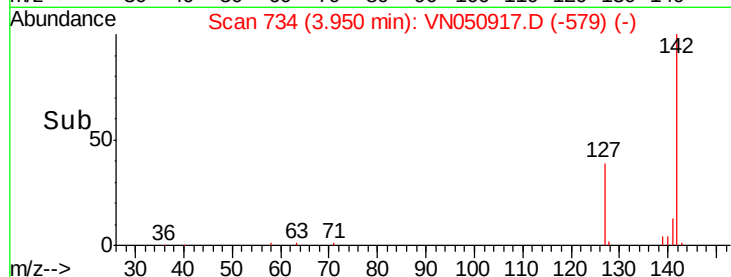
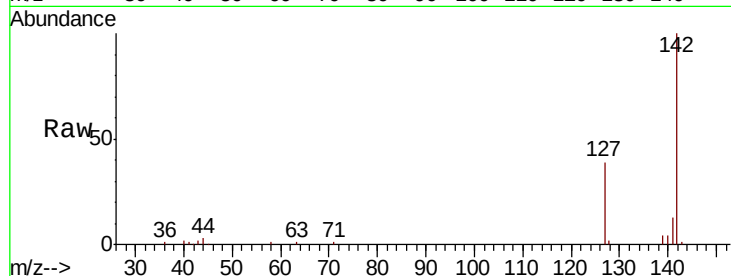
#11
Methyl Iodide
Concen: 16.98 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.6	20.2	60.5
141	13.5	6.9	20.6

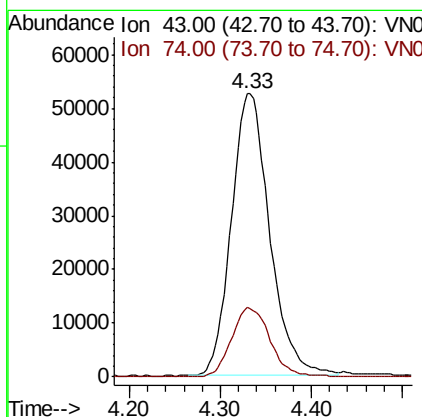
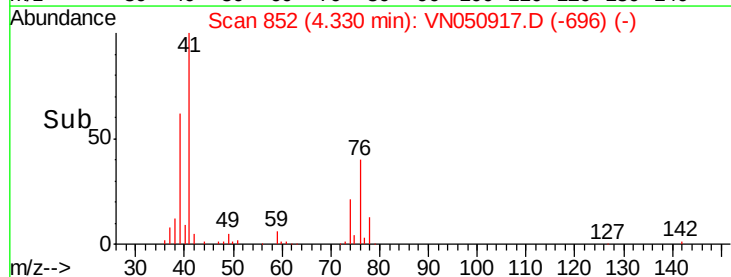
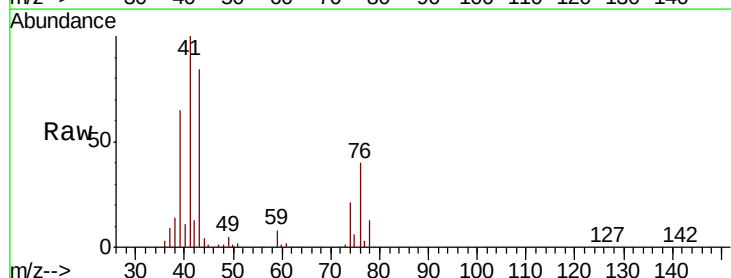
Manual Integrations
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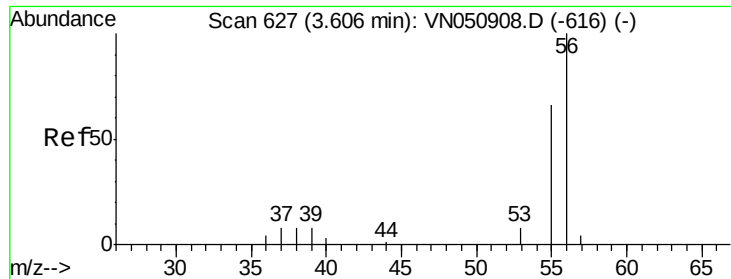
MMDadoda
8/29/2018 11:10:25 AM



#12
Methyl Acetate
Concen: 19.46 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	19.3	28.9





#13

Acrolein

Concen: 77.82 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 56 Resp: 13587

Ion Ratio Lower Upper

56 100

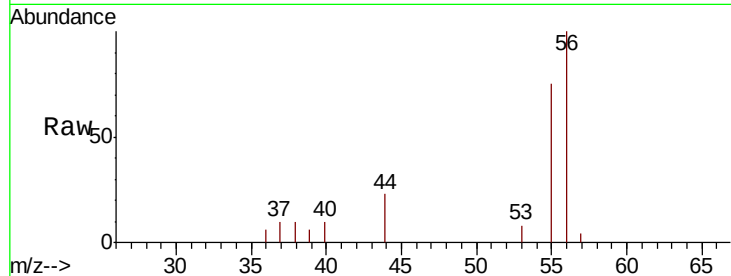
55 78.3 58.6 88.0

Manual Integrations

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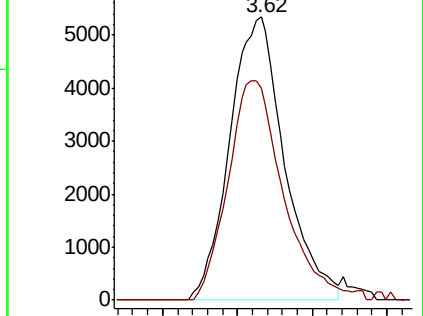
MMDadoda

8/29/2018 11:10:25 AM

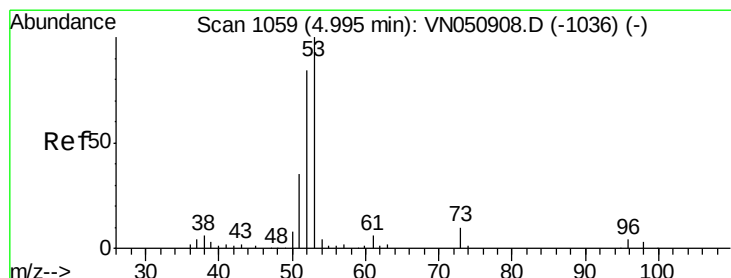
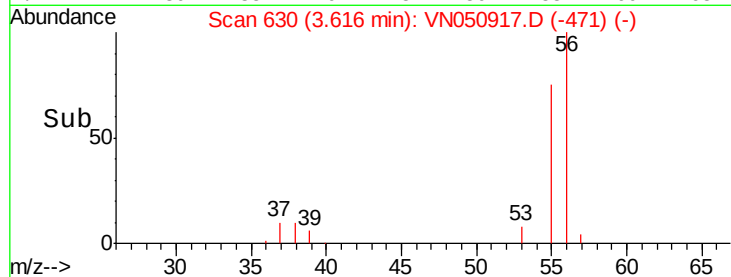


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#14

Acrylonitrile

Concen: 91.00 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

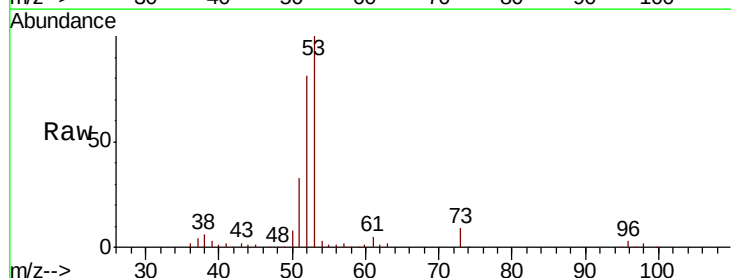
Tgt Ion: 53 Resp: 242611

Ion Ratio Lower Upper

53 100

52 80.7 41.5 124.5

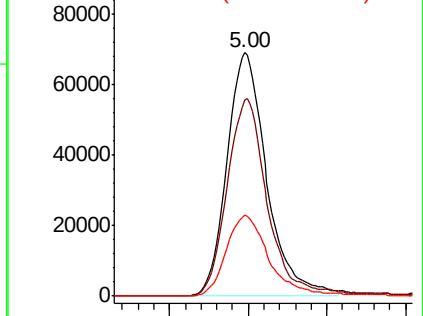
51 35.6 18.7 56.1



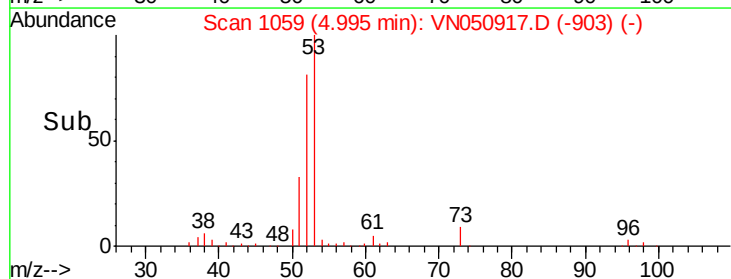
Abundance Ion 53.00 (52.70 to 53.70): VN0

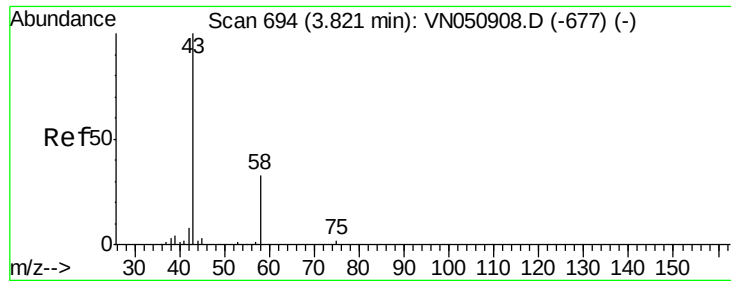
Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->





#15

Acetone

Concen: 89.75 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 58 Resp: 61226

Ion Ratio Lower Upper

58 100

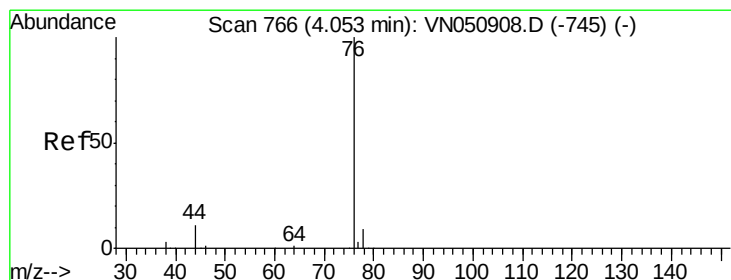
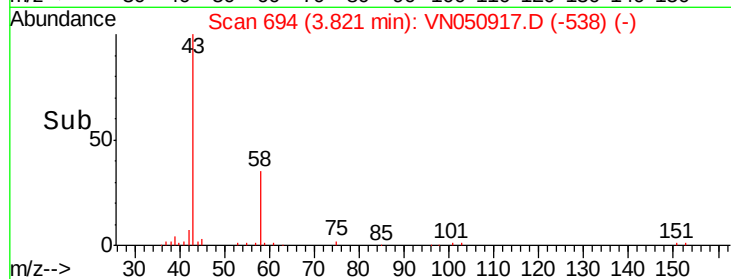
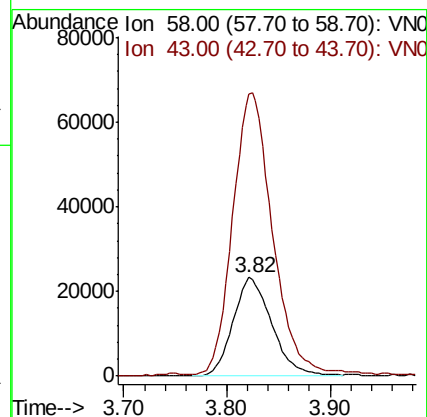
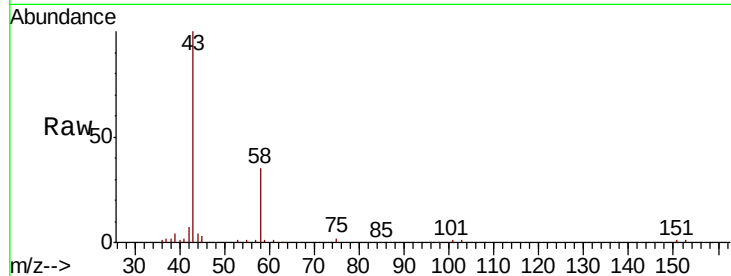
43 285.0 252.0 378.0

Manual Integrations

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#16

Carbon Disulfide

Concen: 18.69 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050917.D

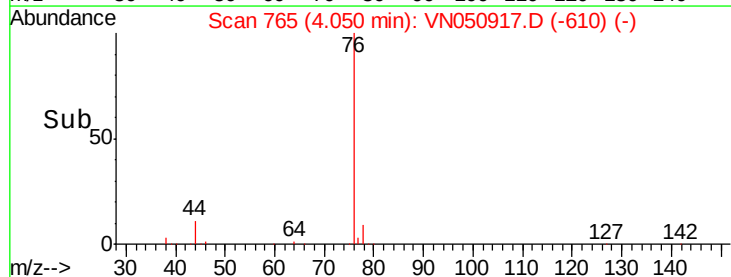
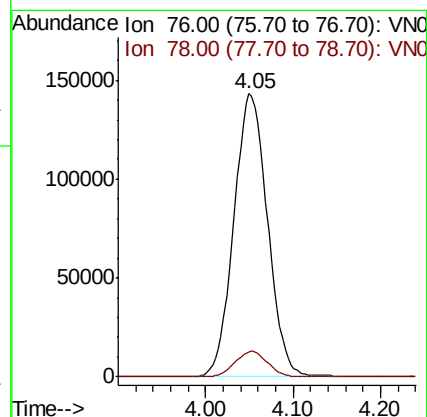
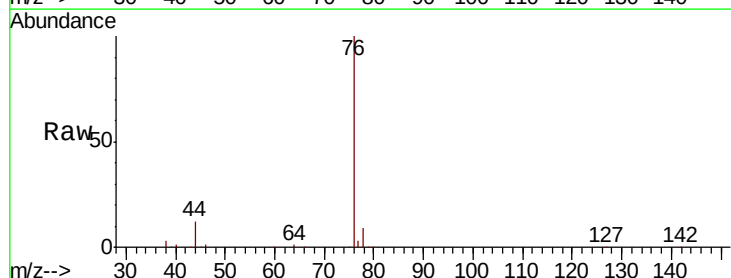
Acq: 28 Aug 2018 16:34

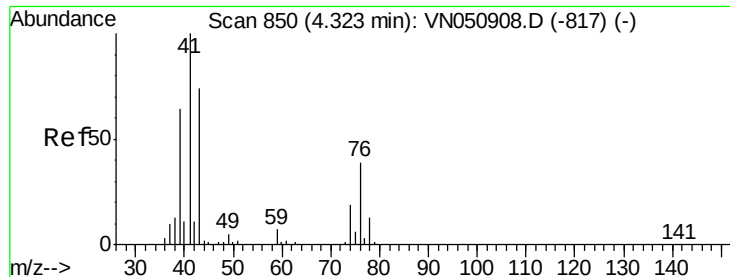
Tgt Ion: 76 Resp: 383269

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9





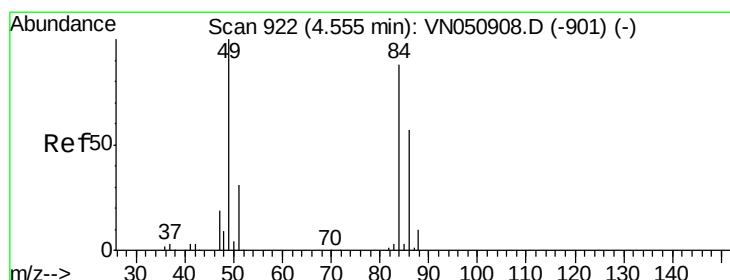
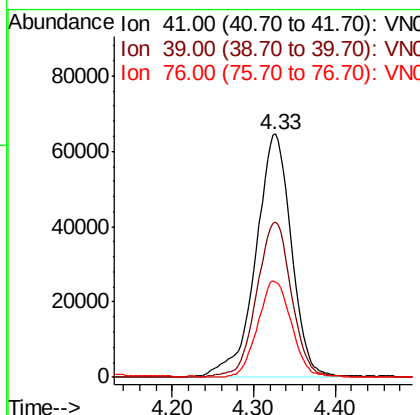
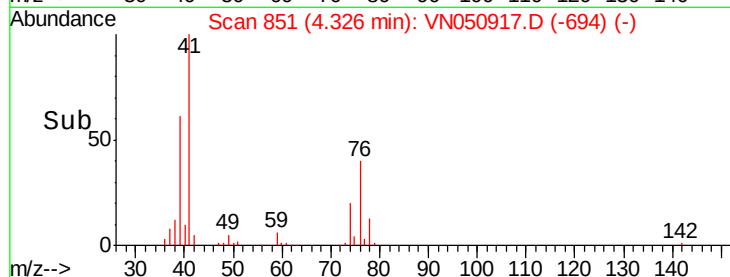
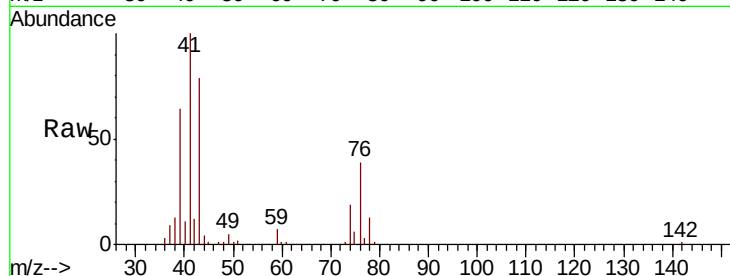
#17
Allvl chloride
Concen: 18.33 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion:	41	Resp:	196651
Ion	Ratio	Lower	Upper
41	100		
39	63.6	35.4	106.3
76	38.8	19.7	59.1

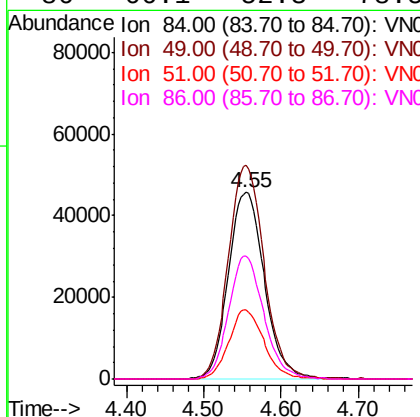
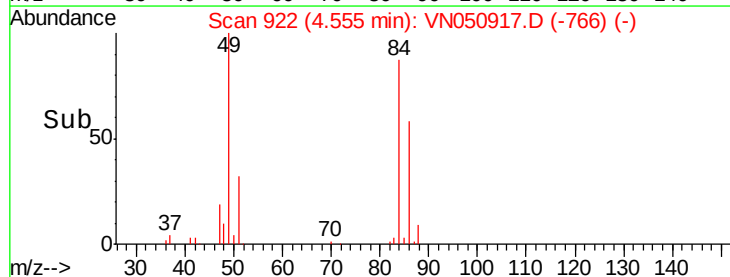
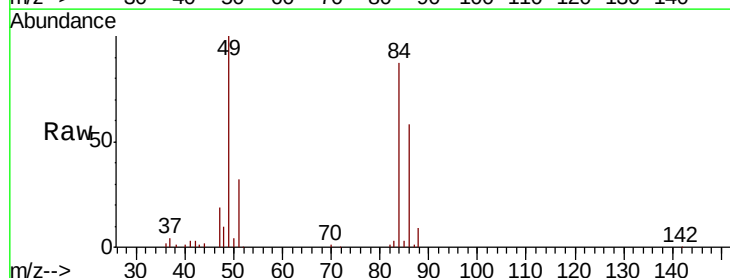
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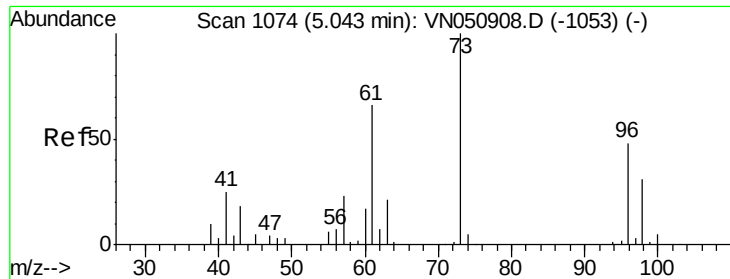
MMDadoda
8/29/2018 11:10:25 AM



#18
Methylene Chloride
Concen: 18.51 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion:	84	Resp:	148184
Ion	Ratio	Lower	Upper
84	100		
49	114.4	95.1	142.7
51	36.8	28.8	43.2
86	66.1	52.3	78.5





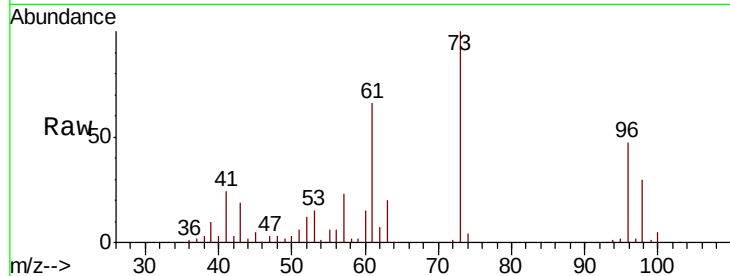
#19
trans-1,2-Dichloroethene
Concen: 18.74 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.0	112.1	168.1
98	63.4	51.3	76.9

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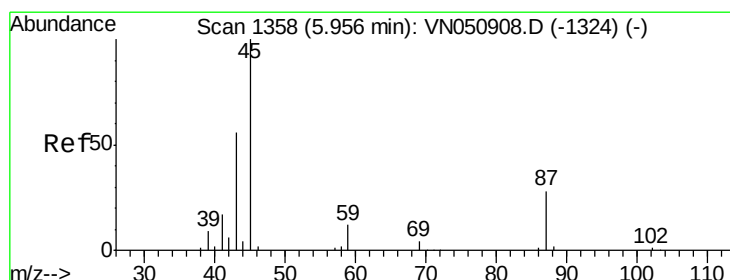
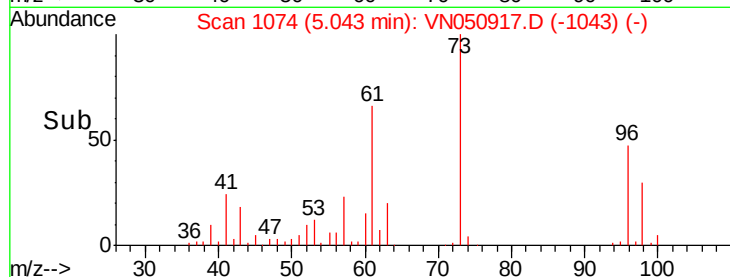
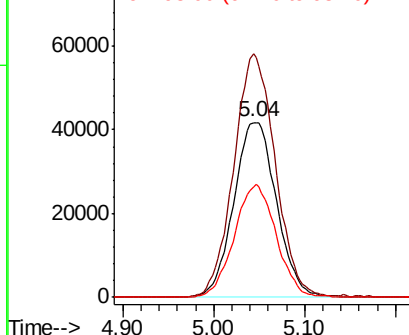


Abundance

Ion 96.00 (95.70 to 96.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 98.00 (97.70 to 98.70): VNC



#20
Diisopropyl ether
Concen: 19.59 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.8	46.6	70.0
87	28.2	22.3	33.5
59	12.3	9.5	14.3

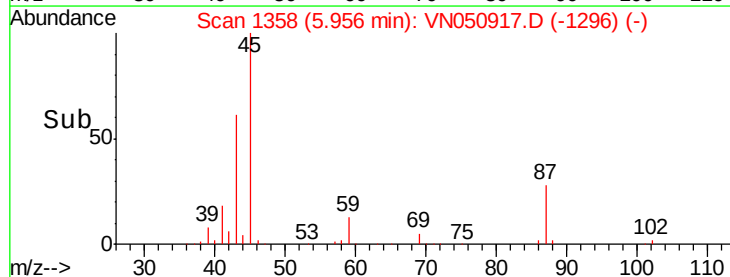
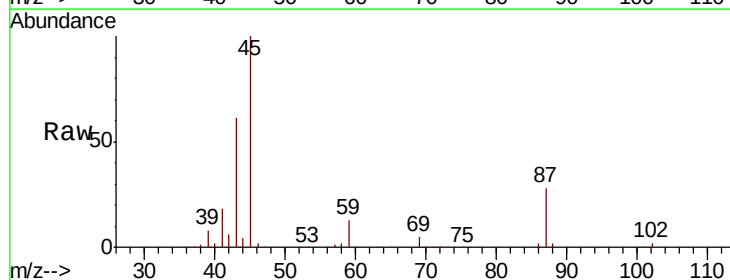
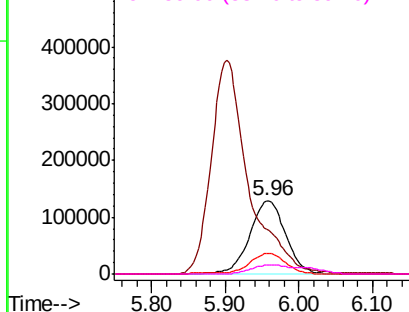
Abundance

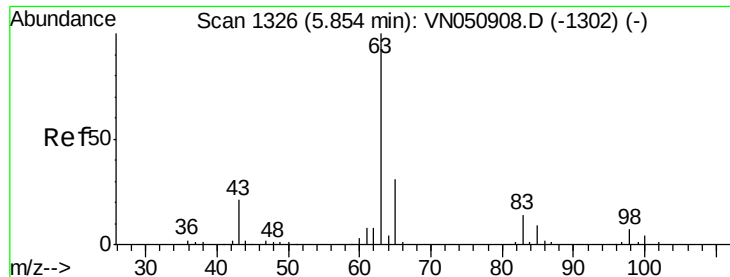
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





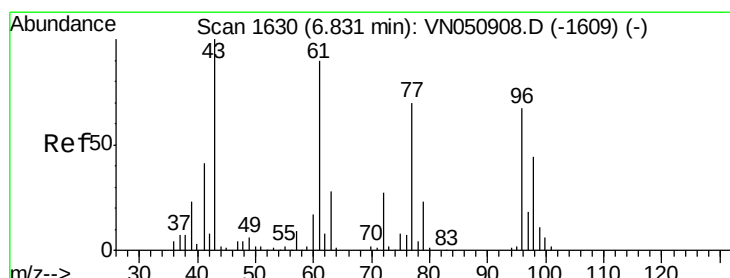
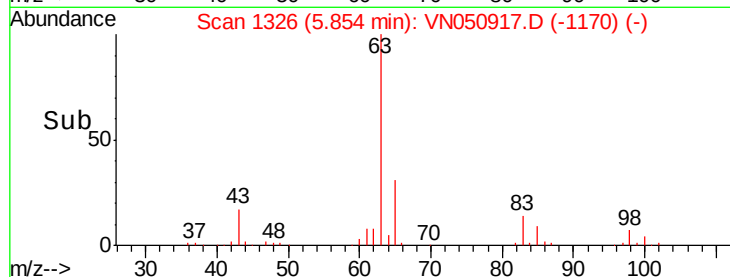
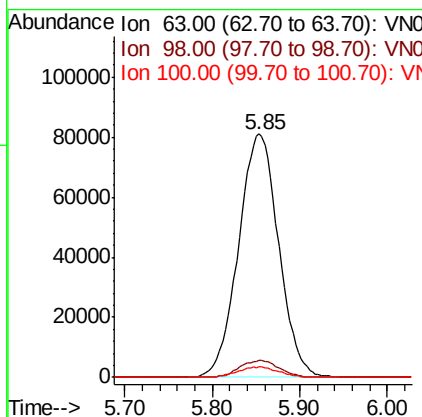
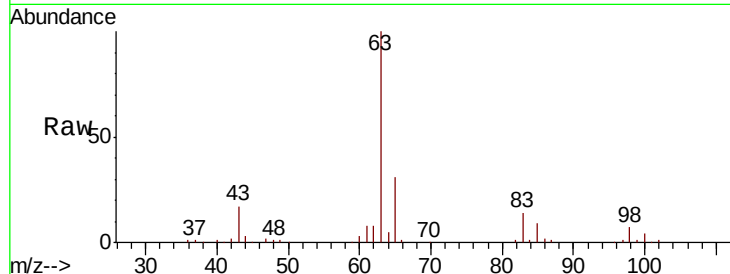
#21
 1,1-Dichloroethane
 Concen: 18.86 ug/l
 RT: 5.85 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	257573		
98	6.8		3.5	10.6
100	4.1		2.3	6.8

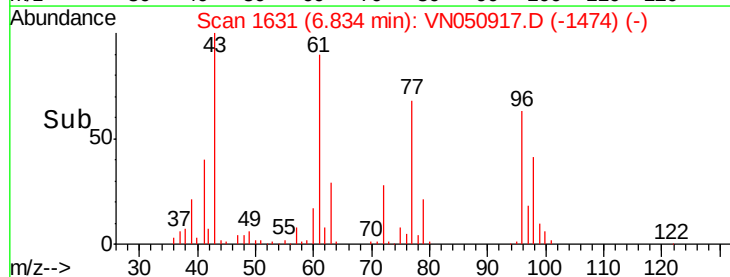
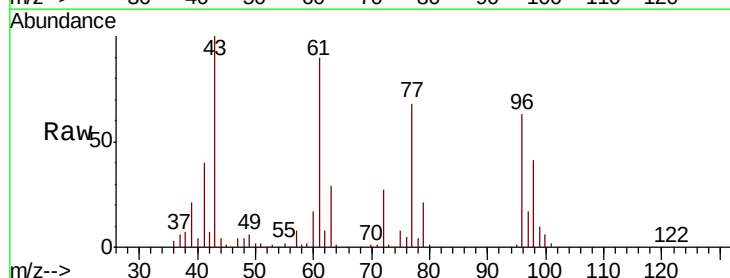
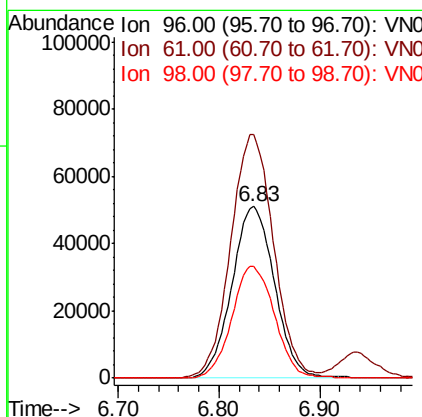
Manual Integrations
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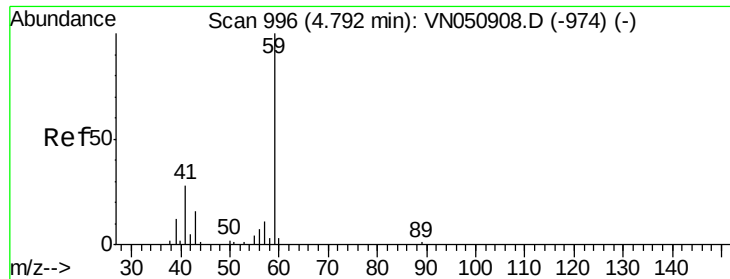
MMDadoda
 8/29/2018 11:10:25 AM



#22
 cis-1,2-Dichloroethene
 Concen: 18.25 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	149754		
61	143.5		114.2	171.2
98	65.0		51.7	77.5





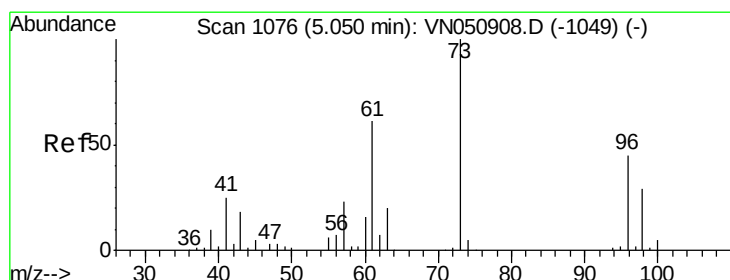
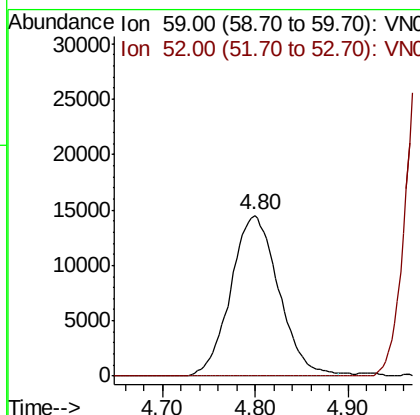
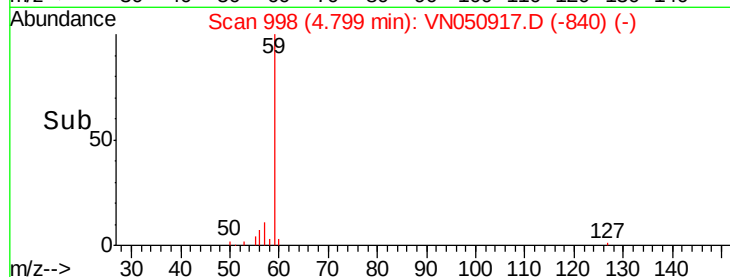
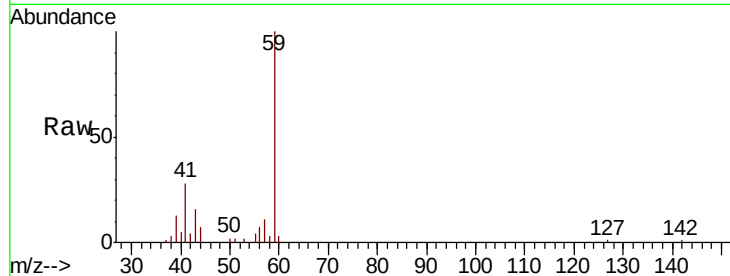
#23
tert-Butyl Alcohol
Concen: 91.99 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.01 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion: 59 Resp: 52152
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

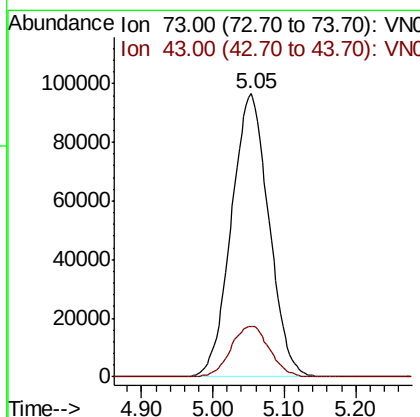
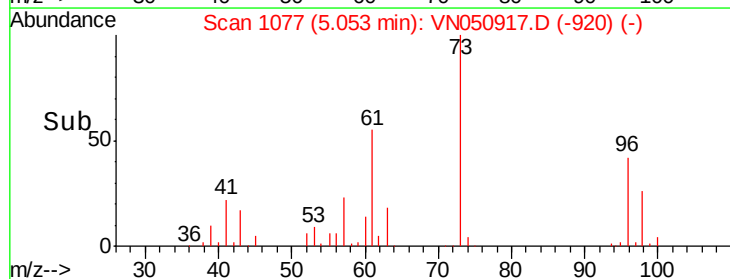
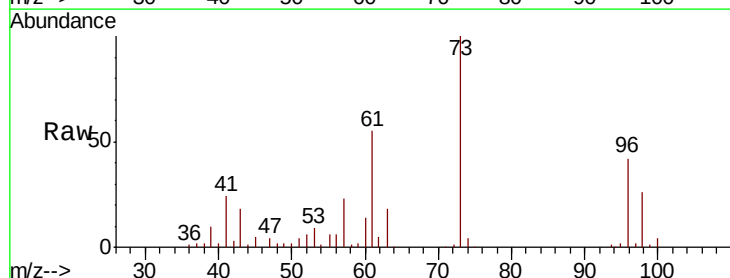
Manual Integrations
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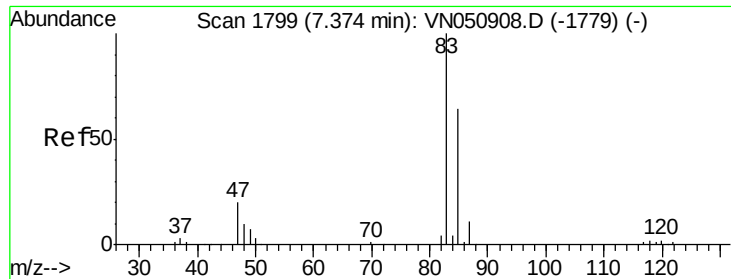
MMDadoda
8/29/2018 11:10:25 AM



#24
Methyl tert-Butyl Ether
Concen: 18.92 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion: 73 Resp: 352875
Ion Ratio Lower Upper
73 100
43 18.5 15.5 23.3





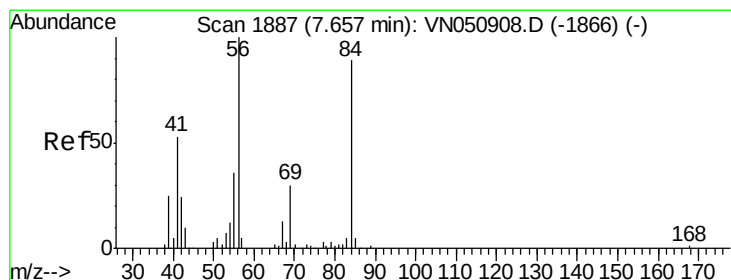
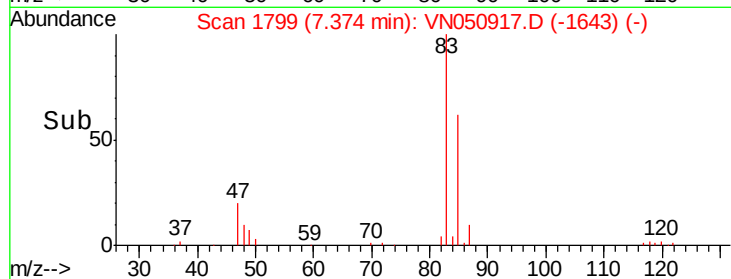
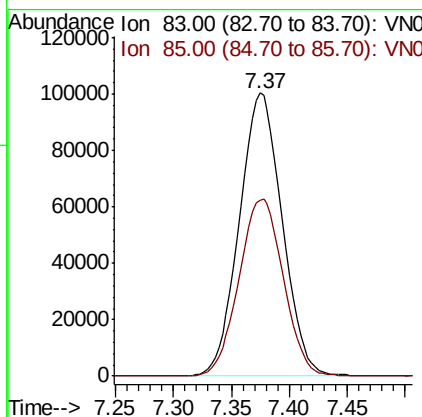
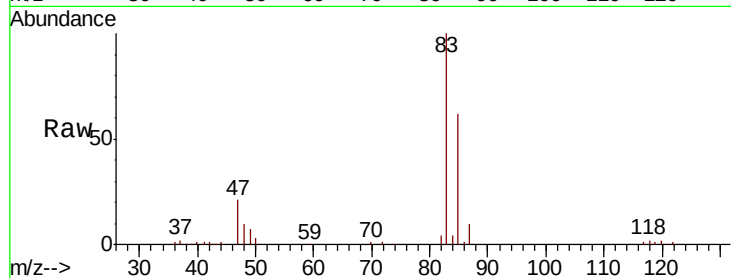
#25
Chloroform
Concen: 18.95 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	83	Resp	258239
Ion Ratio	100	Lower	Upper
83	100		
85	62.3	52.1	78.1

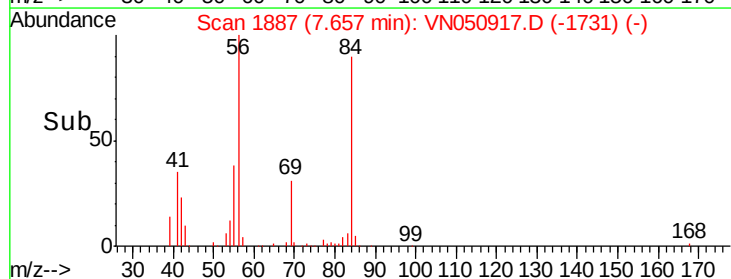
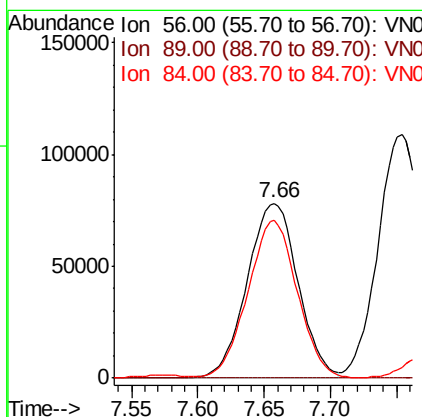
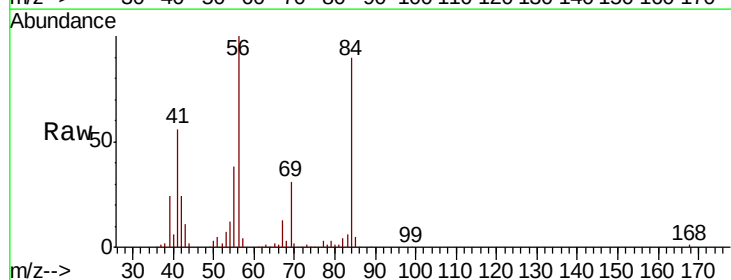
Manual Integrations
APPROVED

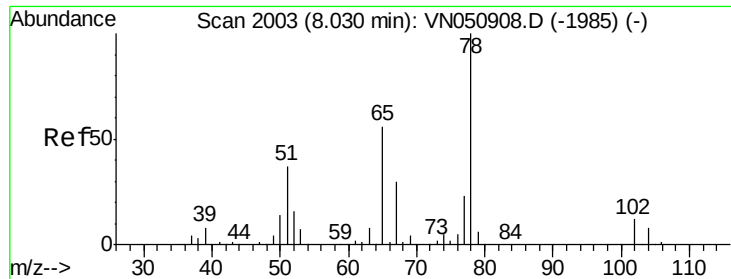
MMDadoda
8/29/2018 11:10:25 AM



#26
Cyclohexane
Concen: 18.53 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	56	Resp	209598
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	3.0	4.4#
84	87.9	69.8	104.8





#27

1,2-Dichloroethane-d4

Concen: 29.42 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 65 Resp: 236880

Ion Ratio Lower Upper

65 100

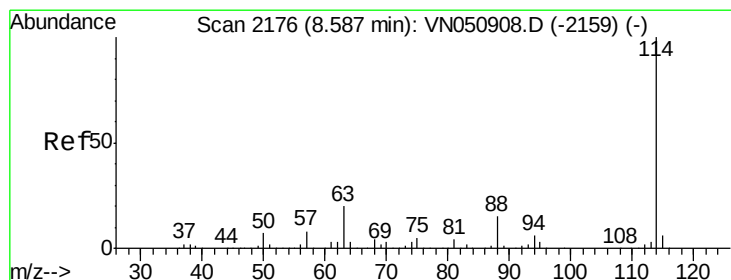
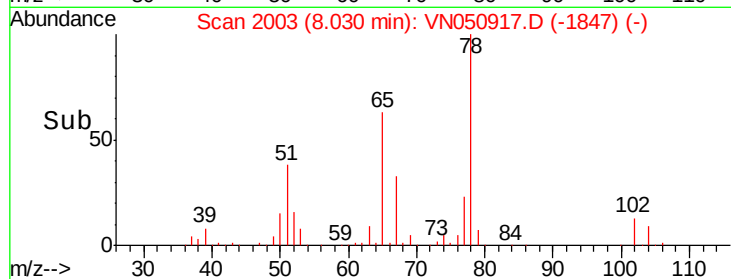
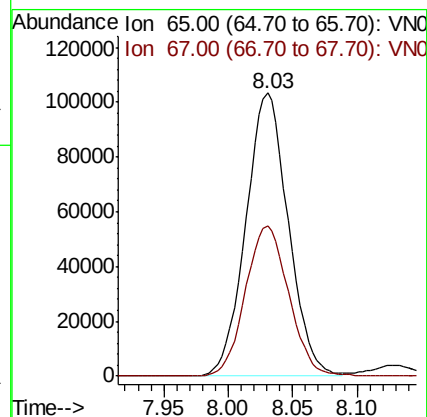
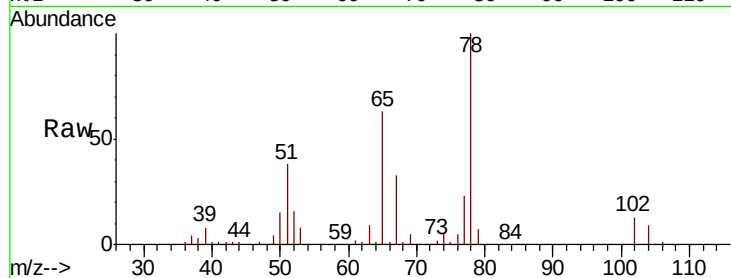
67 54.3 42.7 64.1

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#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

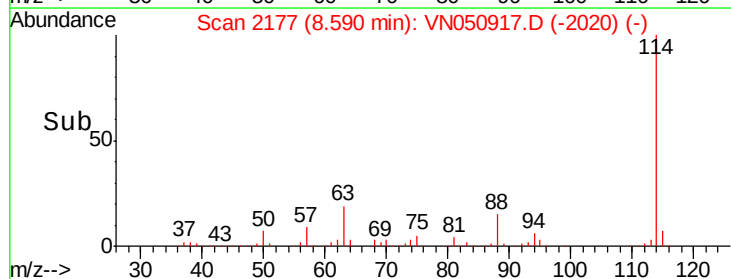
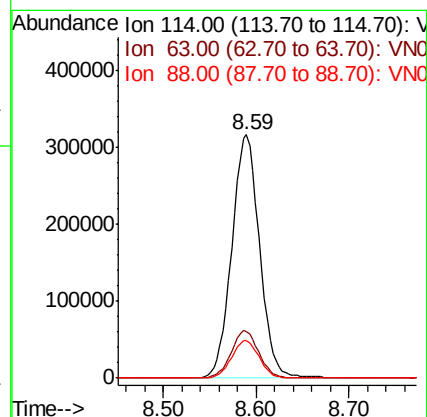
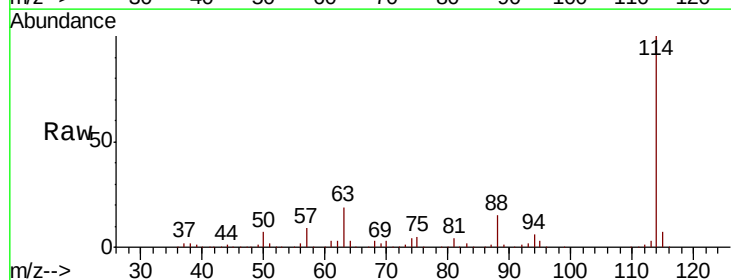
Tgt Ion: 114 Resp: 656529

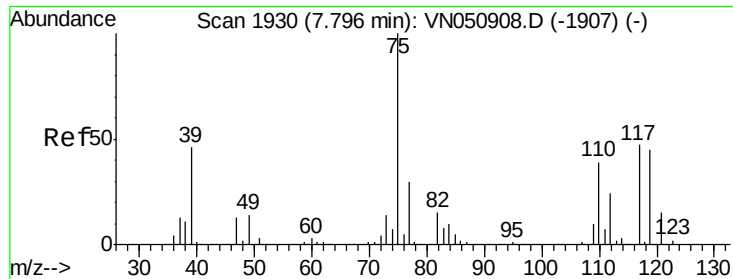
Ion Ratio Lower Upper

114 100

63 19.4 16.2 24.2

88 15.3 12.3 18.5





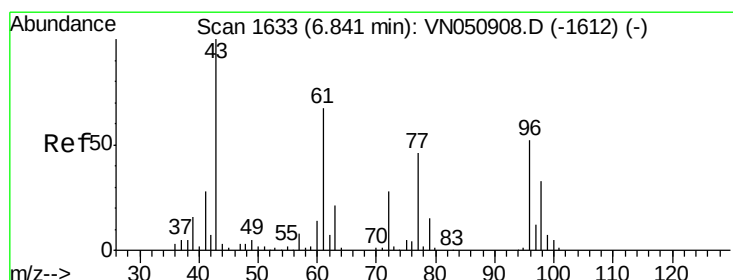
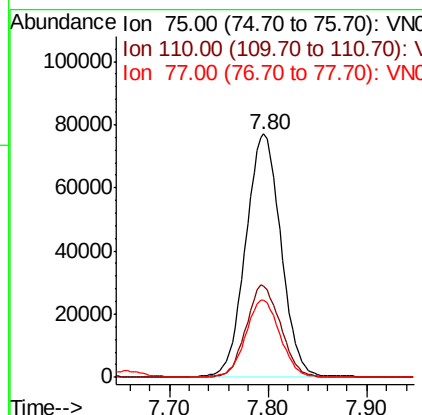
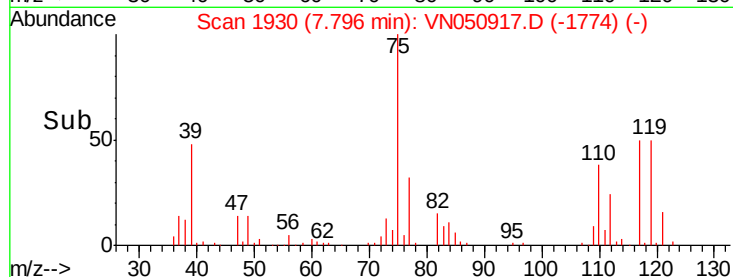
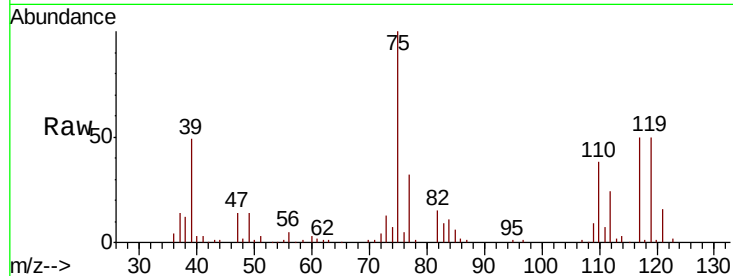
#29
 1,1-Dichloropropene
 Concen: 19.36 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	190242		
110	37.0	0.0	73.2	
77	31.3	0.0	62.0	

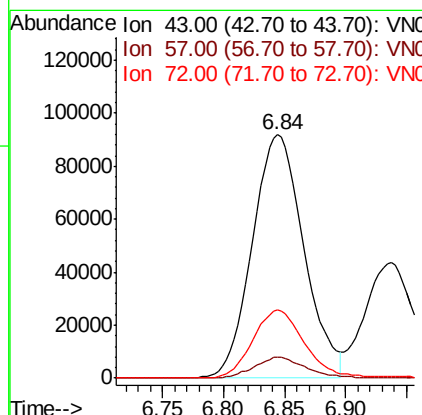
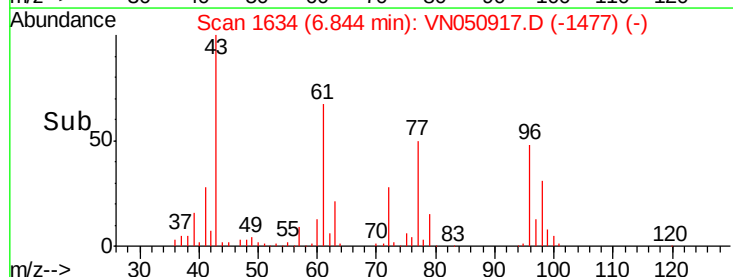
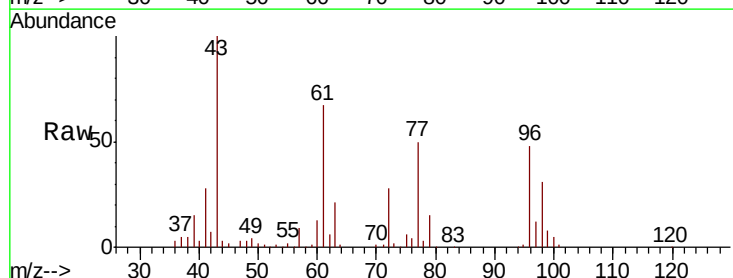
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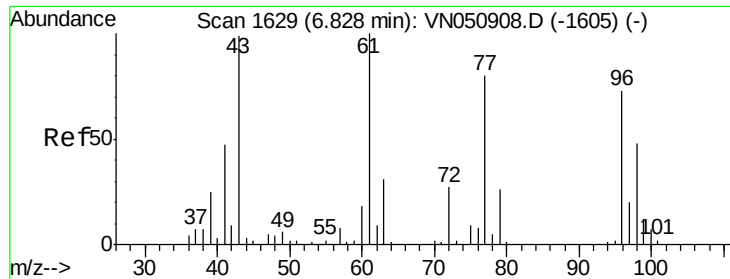
MMDadoda
 8/29/2018 11:10:25 AM



#30
 2-Butanone
 Concen: 88.70 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	268215		
57	8.4	6.8	10.2	
72	28.1	21.4	32.0	





#31

2,2-Dichloropropane

Concen: 19.54 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 77 Resp: 186876

Ion Ratio Lower Upper

77 100

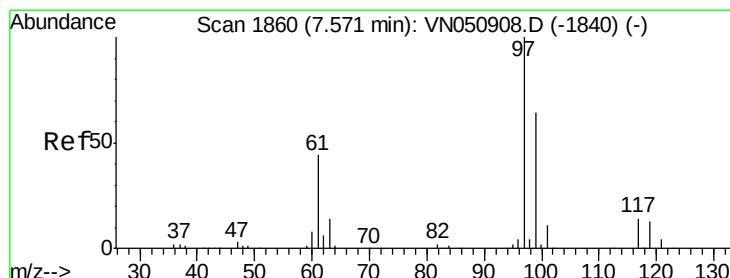
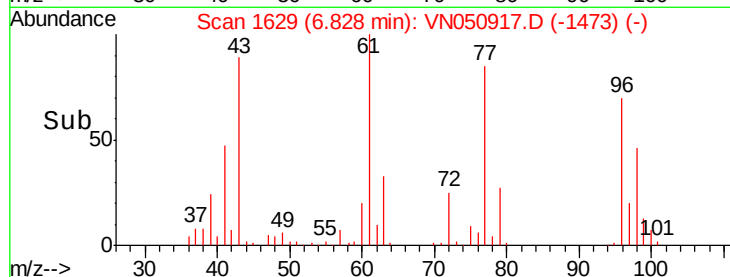
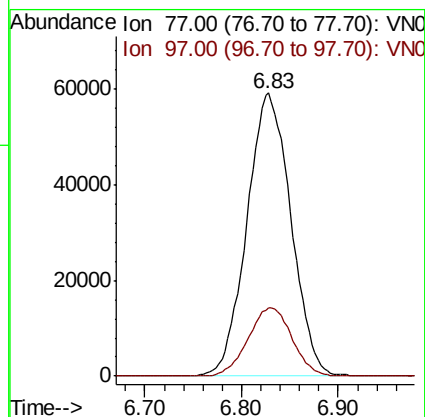
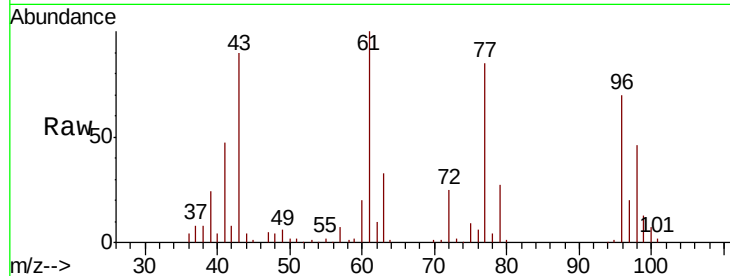
97 24.2 18.9 28.3

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#32

1,1,1-Trichloroethane

Concen: 19.59 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

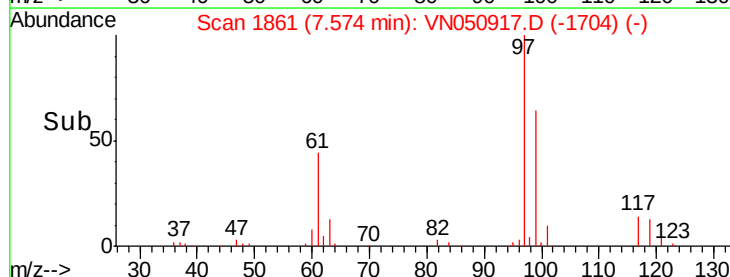
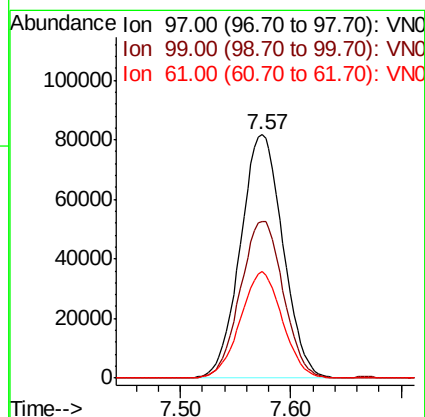
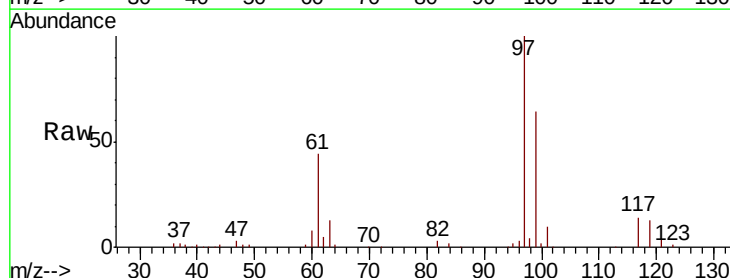
Tgt Ion: 97 Resp: 218291

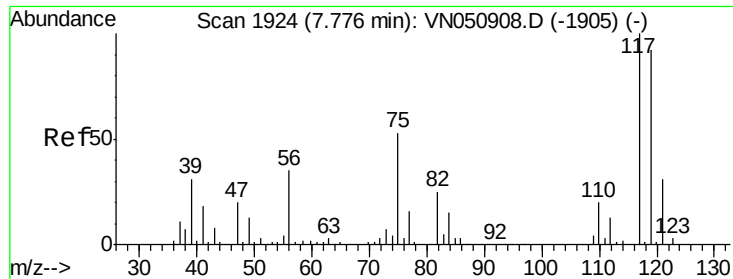
Ion Ratio Lower Upper

97 100

99 65.0 51.2 76.8

61 43.2 35.3 52.9





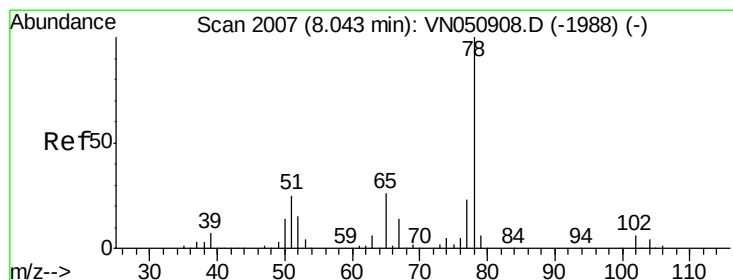
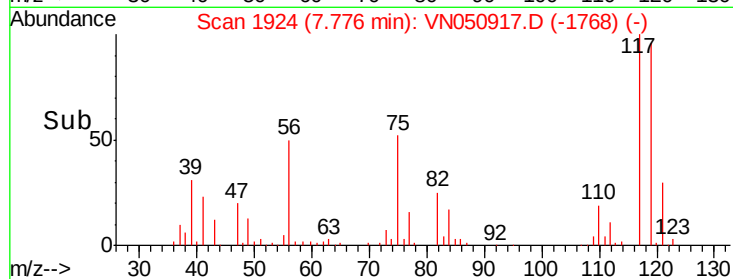
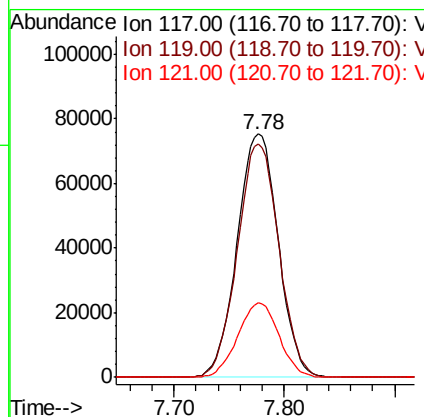
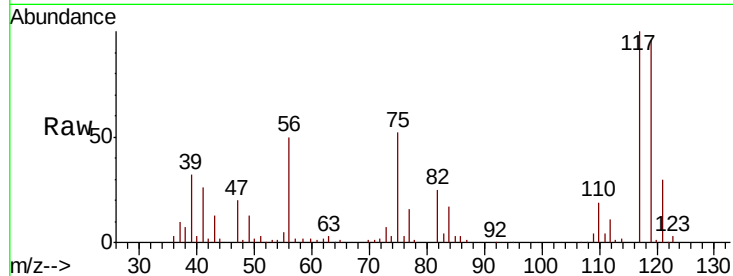
#33
Carbon Tetrachloride
Concen: 19.40 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.9	115.3
121	30.4	24.4	36.6

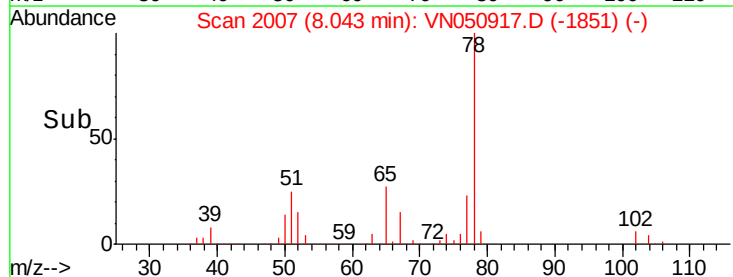
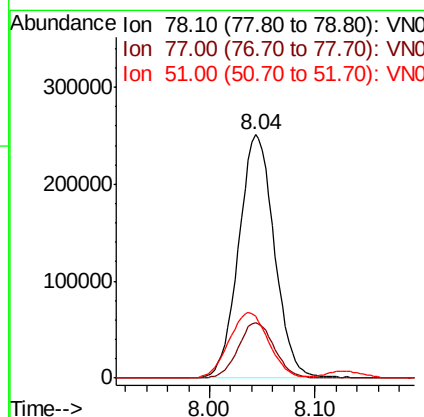
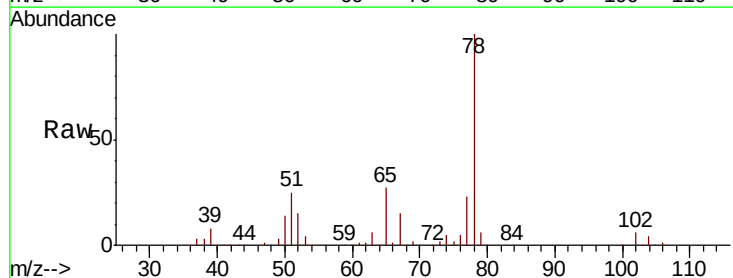
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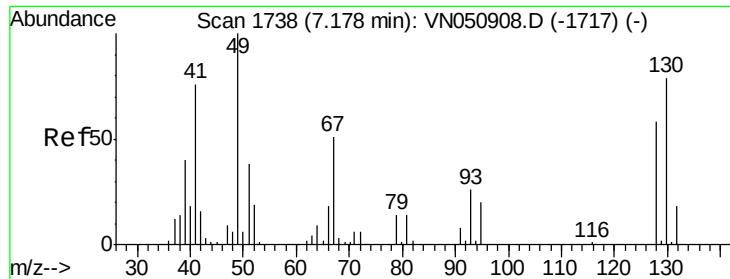
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#34
Benzene
Concen: 19.38 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.1	28.7
51	25.1	21.0	31.4





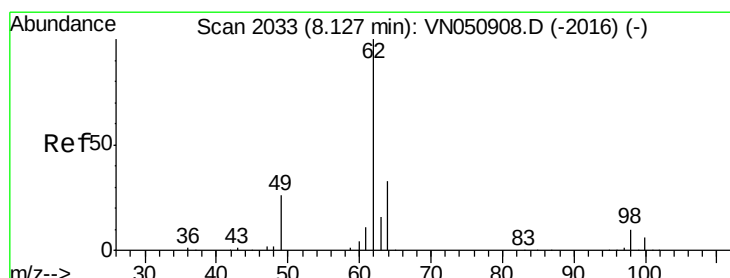
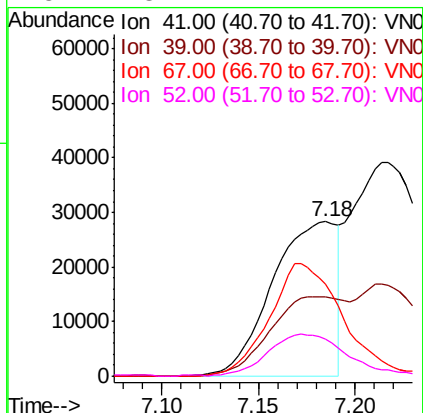
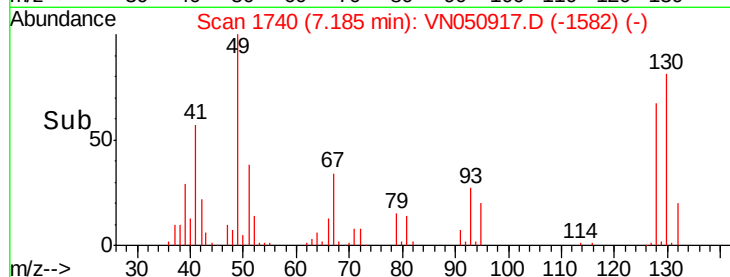
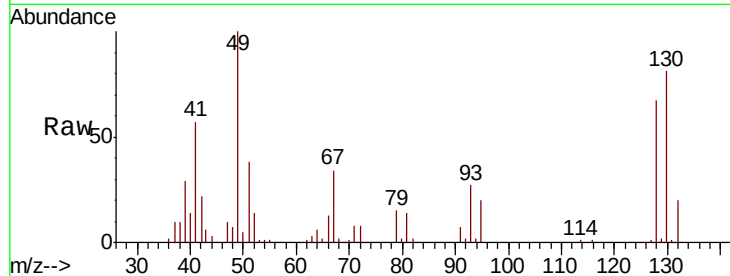
#35
Methacrylonitrile
Concen: 20.00 ug/l
RT: 7.18 min Scan# 1740
Delta R.T. 0.01 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.3	27.6	82.7	
67	59.4	35.1	105.5	
52	23.4	14.1	42.4	

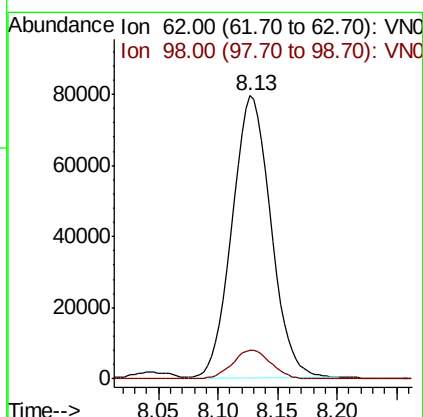
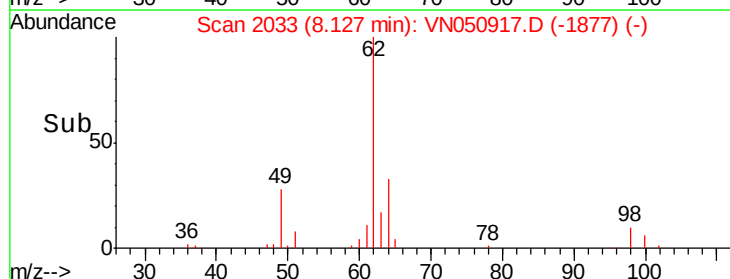
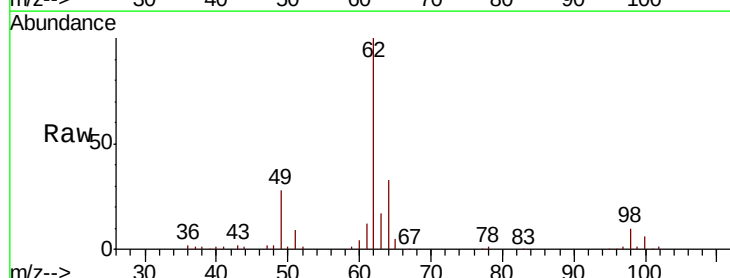
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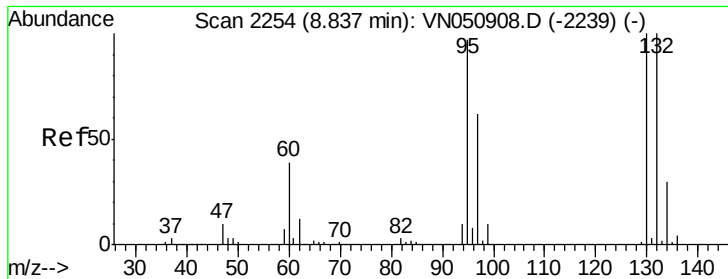
MMDadoda
8/29/2018 11:10:25 AM



#36
1,2-Dichloroethane
Concen: 19.51 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	7.8	11.6	





#37

Trichloroethene

Concen: 19.20 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion:130 Resp: 152595

Ion Ratio Lower Upper

130 100

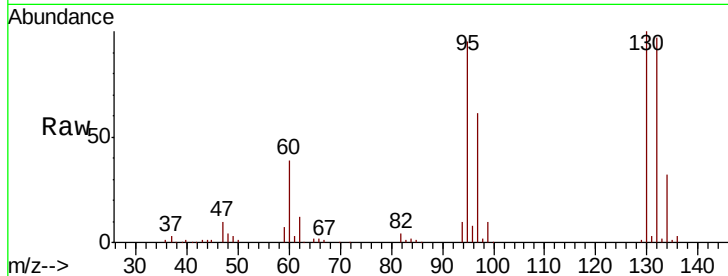
95 95.3 79.7 119.5

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

80000

60000

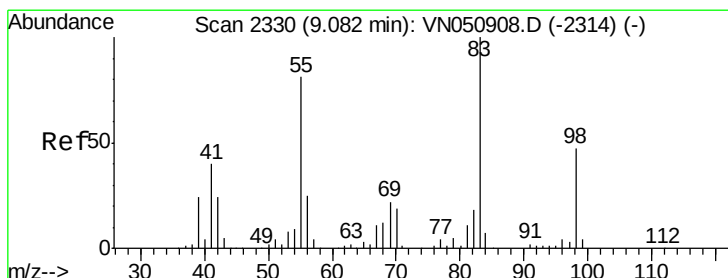
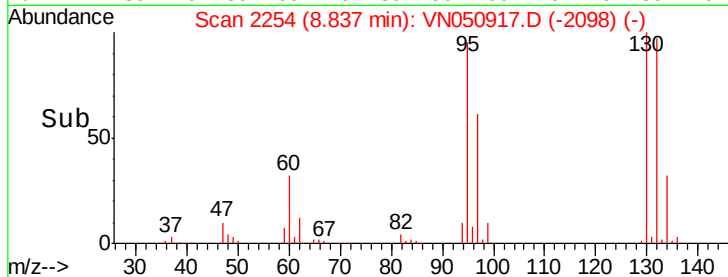
40000

20000

0

8.75 8.80 8.85 8.90 8.95

Time-->



#38

Methylcyclohexane

Concen: 18.43 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

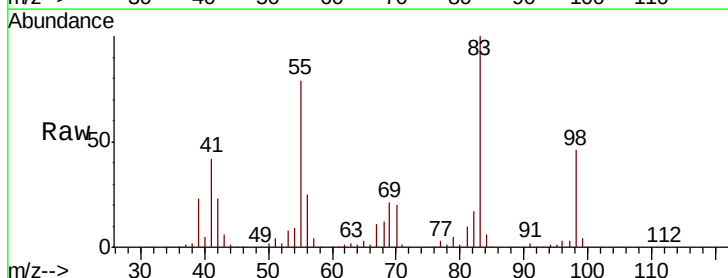
Tgt Ion: 83 Resp: 194593

Ion Ratio Lower Upper

83 100

55 77.4 39.3 117.8

98 46.8 23.0 69.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

120000

100000

80000

60000

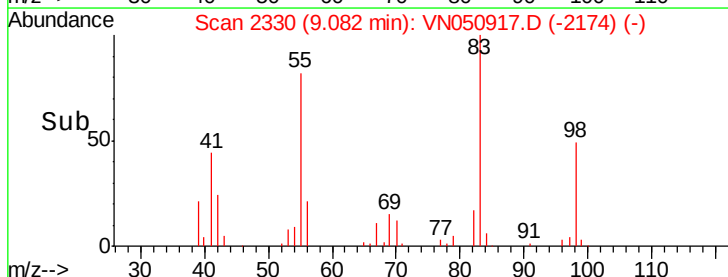
40000

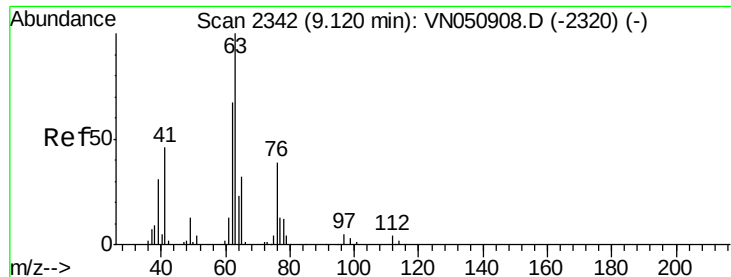
20000

0

9.00 9.05 9.10 9.15

Time-->





#39

1,2-Dichloropropane

Concen: 19.39 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampled :

VN0828WBSD01

Tot Ion: 63 Resp: 153957

Ion Ratio Lower Upper

63 100

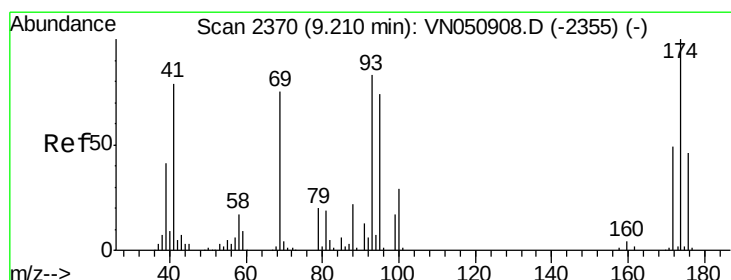
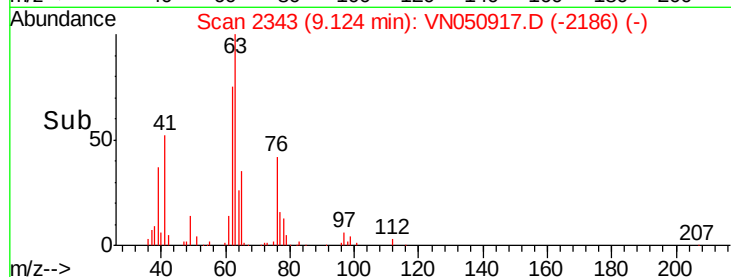
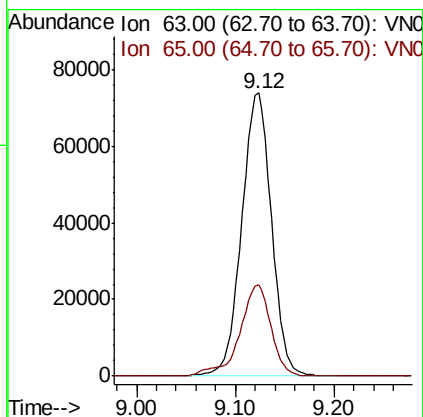
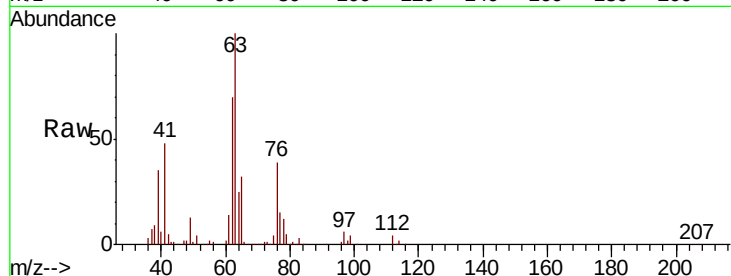
65 32.2 24.2 36.2

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#40

Dibromomethane

Concen: 19.04 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

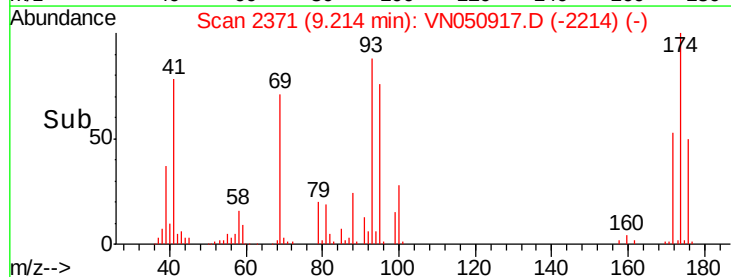
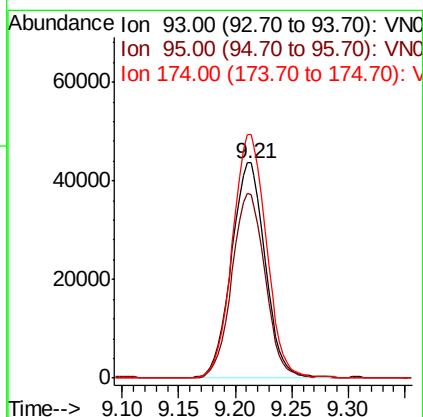
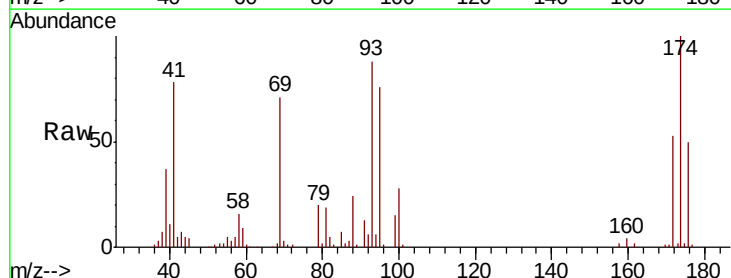
Tgt Ion: 93 Resp: 91071

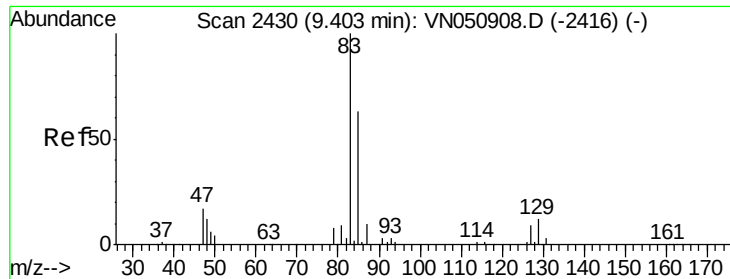
Ion Ratio Lower Upper

93 100

95 84.2 0.0 165.6

174 113.1 0.0 223.2





#41

Bromodichloromethane

Concen: 18.95 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

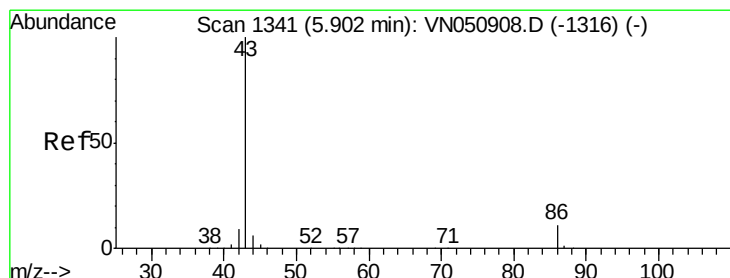
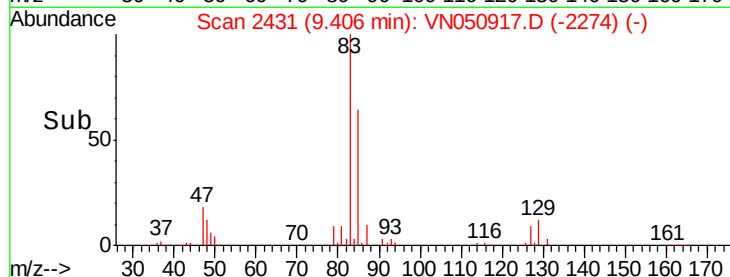
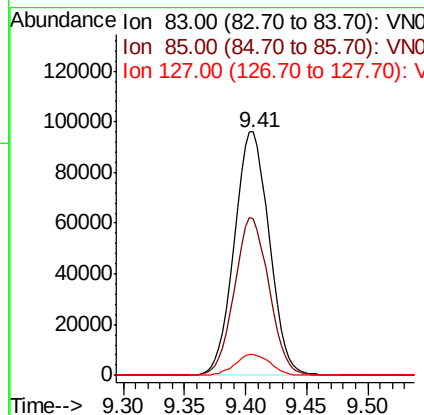
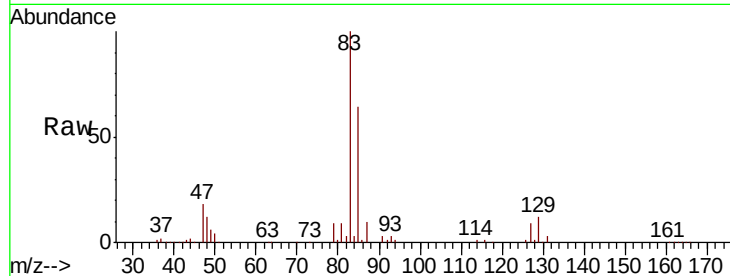
ClientSampleId :

VN0828WBSD01

Tot Ion:	83	Resp:	191107
Ion Ratio	Lower	Upper	
83	100		
85	64.1	52.6	78.8
127	8.7	7.0	10.4

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#42

Vinyl Acetate

Concen: 95.14 ug/l

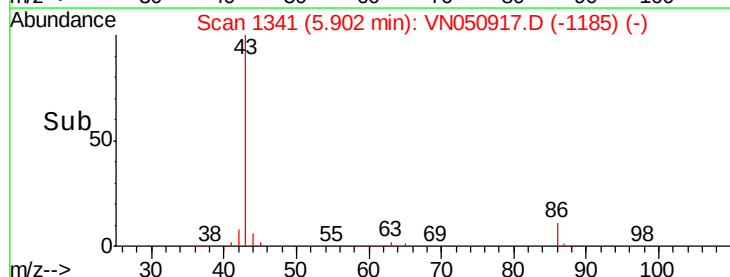
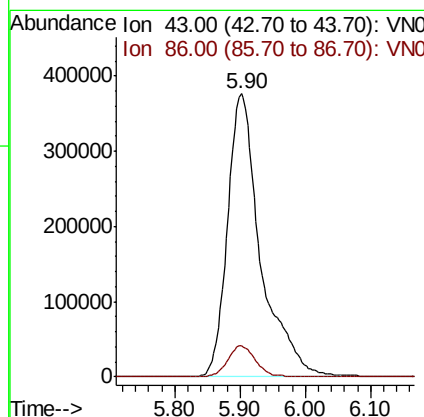
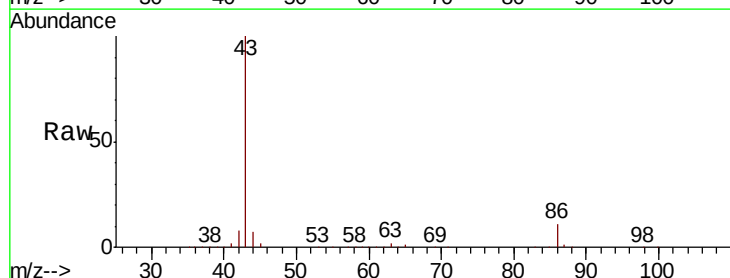
RT: 5.90 min Scan# 1341

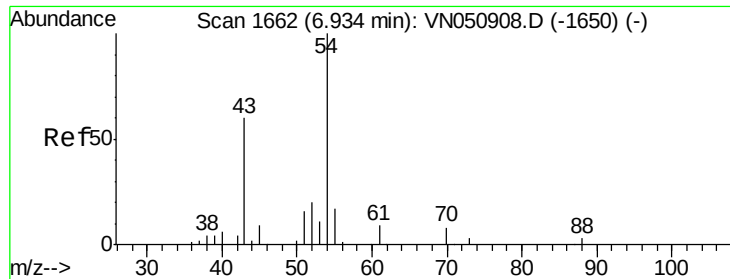
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	43	Resp:	1325070
Ion Ratio	Lower	Upper	
43	100		
86	9.3	7.3	10.9





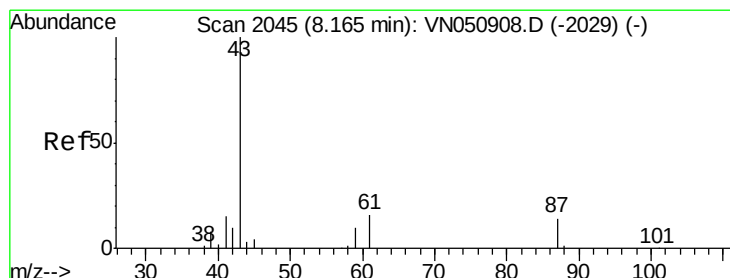
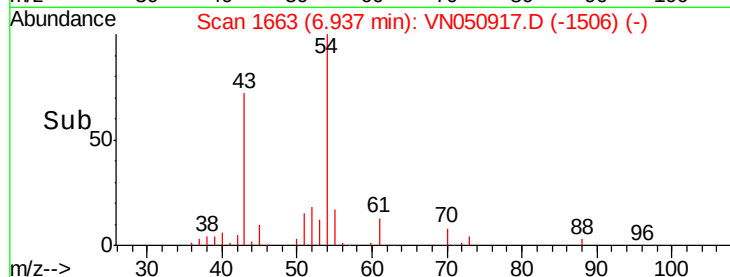
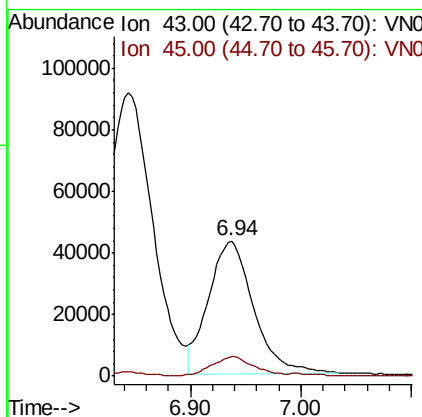
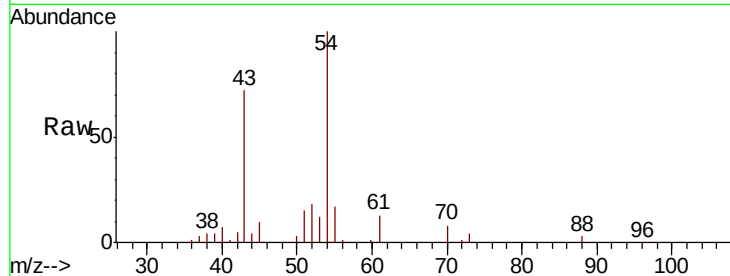
#43
Ethyl Acetate
Concen: 19.66 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion: 43 Resp: 121748
Ion Ratio Lower Upper
43 100
45 13.0 13.0 19.6#

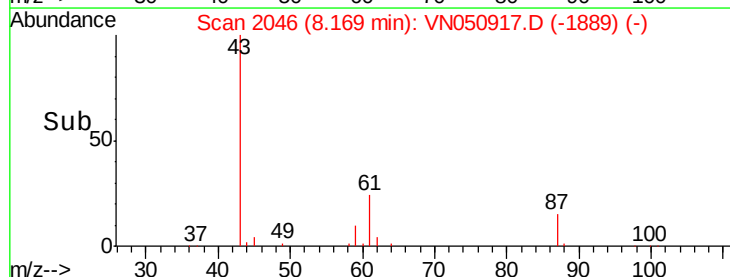
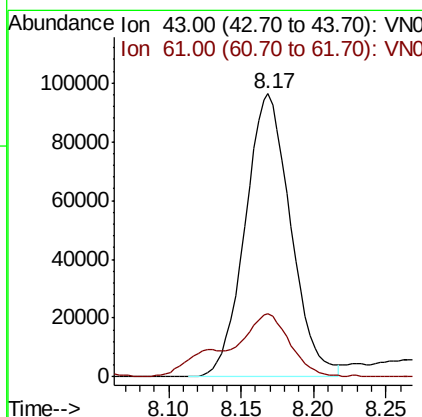
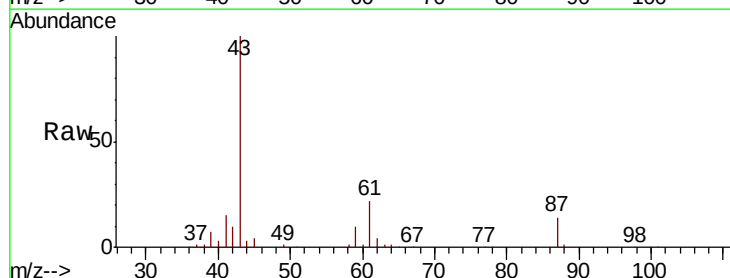
Manual Integrations
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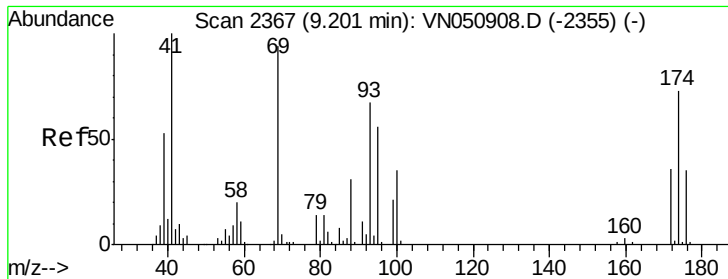
MMDadoda
8/29/2018 11:10:25 AM



#44
Isopropyl Acetate
Concen: 19.18 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion: 43 Resp: 209675
Ion Ratio Lower Upper
43 100
61 20.4 16.4 24.6





#45

1,4-Dioxane

Concen: 383.86 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

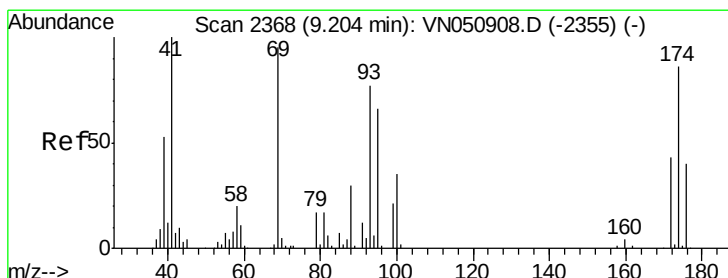
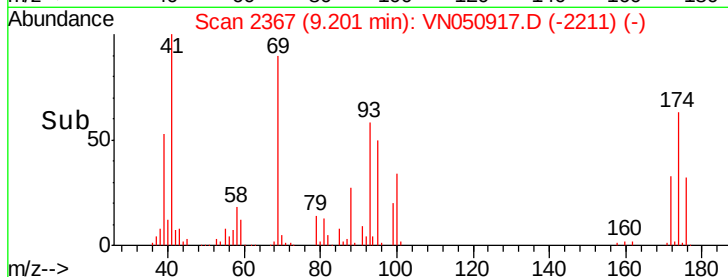
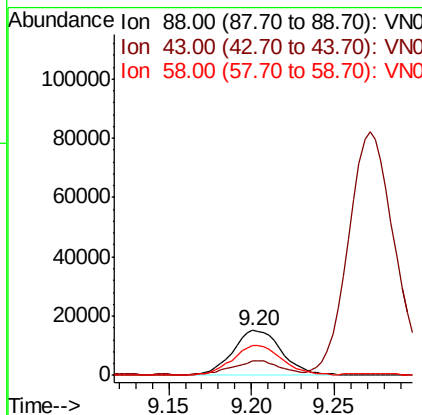
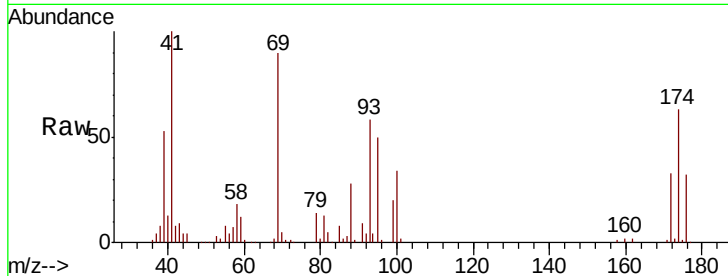
ClientSampleID :

VN0828WBSD01

Tot Ion:	88	Resp:	31167
Ion	Ratio	Lower	Upper
88	100		
43	28.9	26.9	40.3
58	67.7	53.6	80.4

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#46

Methyl methacrylate

Concen: 18.99 ug/l

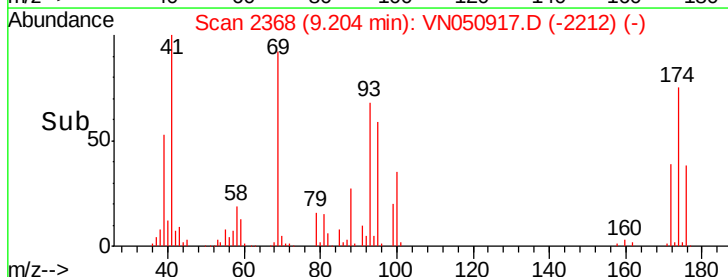
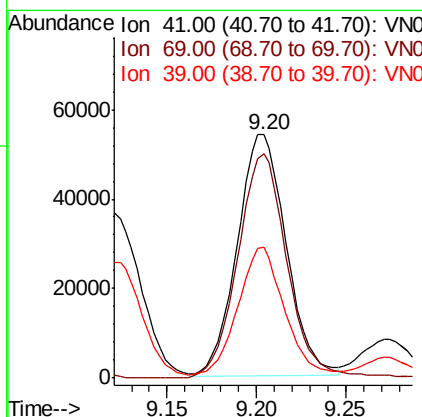
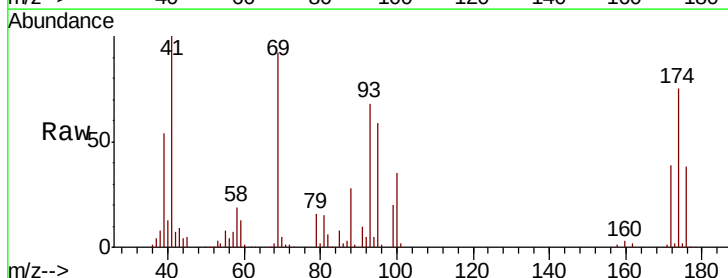
RT: 9.20 min Scan# 2368

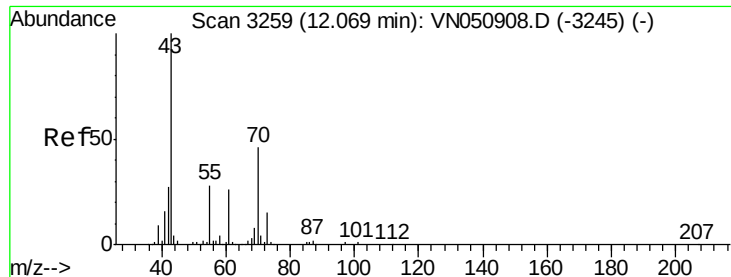
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	41	Resp:	103930
Ion	Ratio	Lower	Upper
41	100		
69	93.2	44.0	132.1
39	53.2	27.0	80.8





#47

n-amyl Acetate

Concen: 17.37 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 43 Resp: 152629

Ion Ratio Lower Upper

43 100

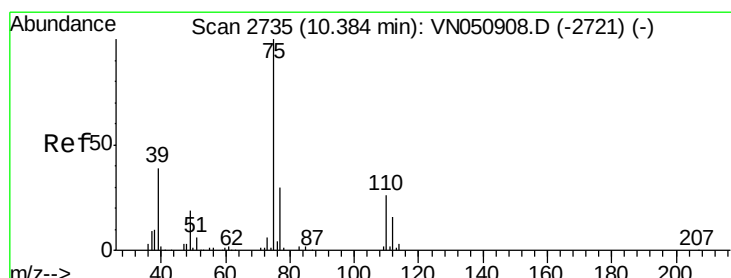
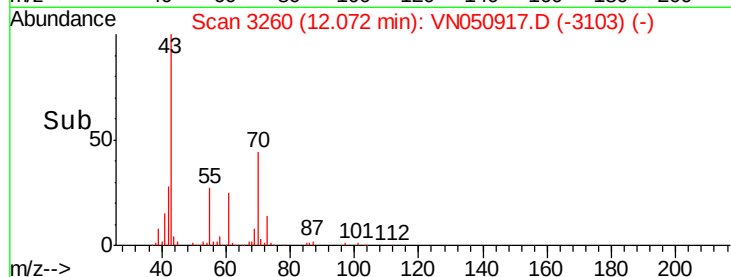
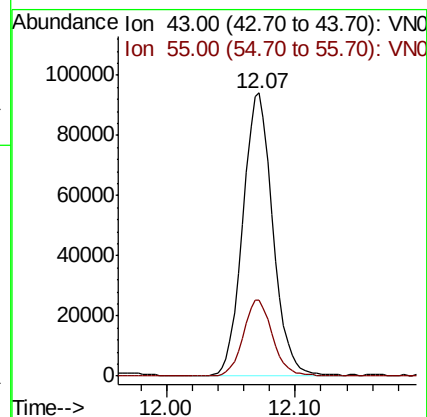
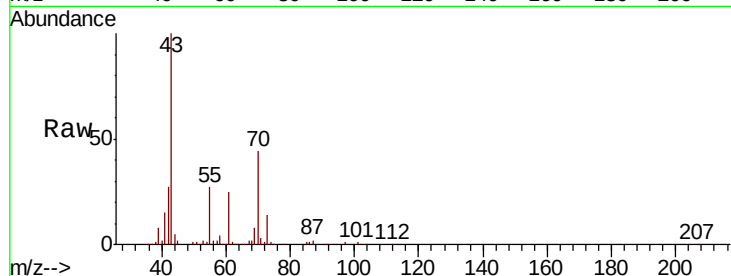
55 26.3 21.0 31.4

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 18.05 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050917.D

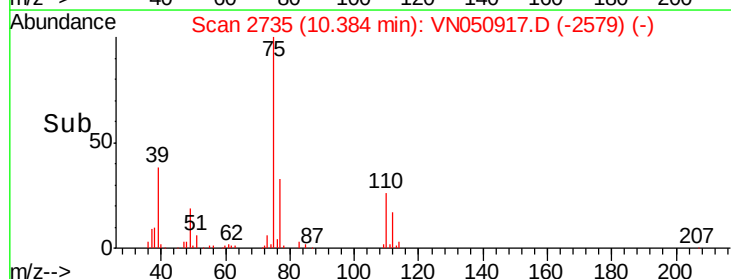
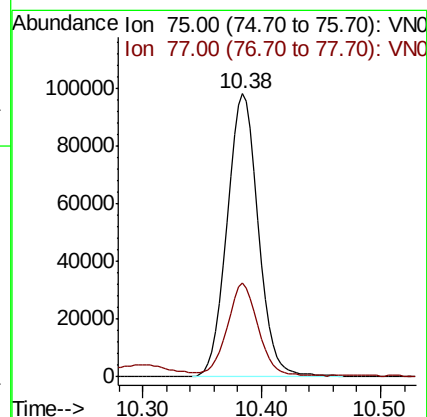
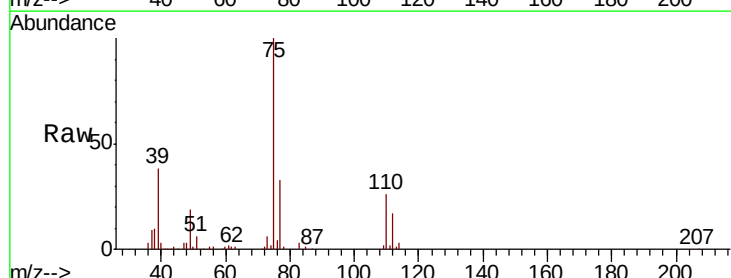
Acq: 28 Aug 2018 16:34

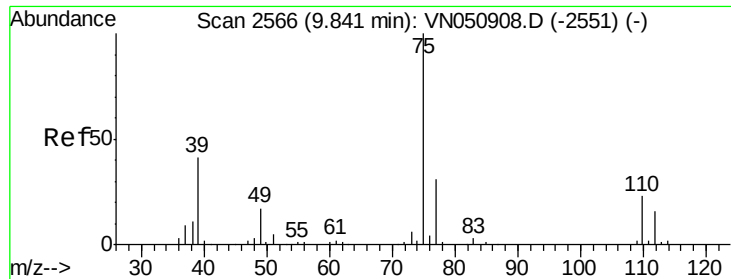
Tgt Ion: 75 Resp: 178421

Ion Ratio Lower Upper

75 100

77 32.6 24.6 37.0





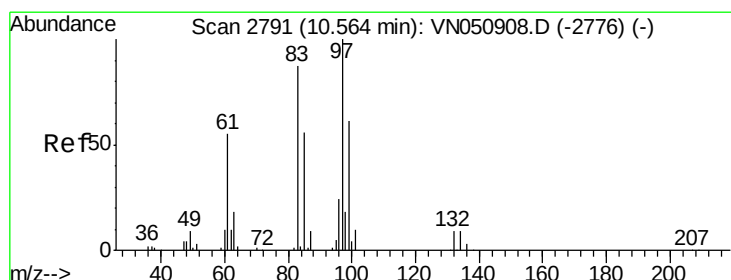
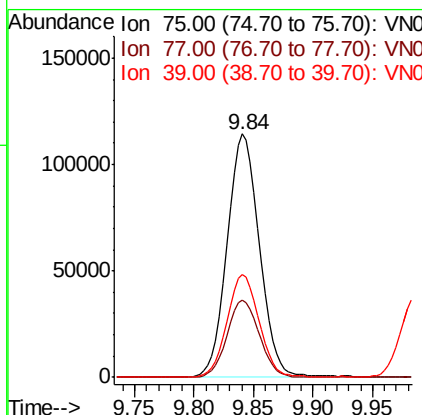
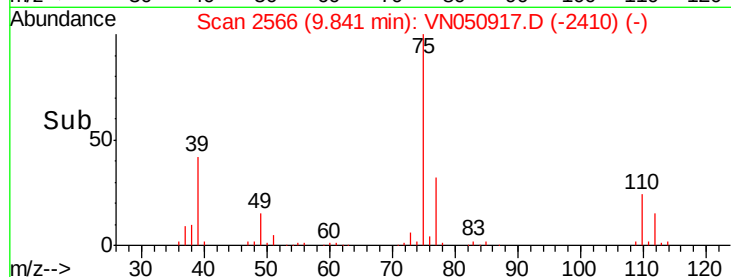
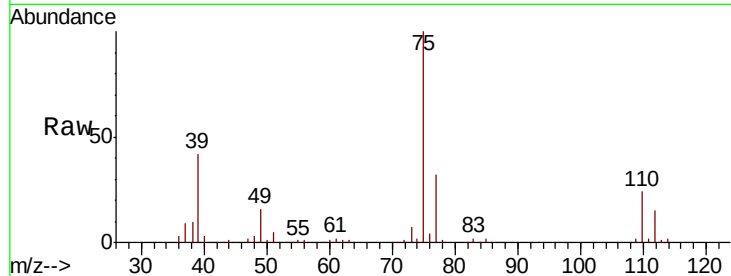
#49
 cis-1,3-Dichloropropene
 Concen: 18.94 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5
39	42.2	36.3	54.5

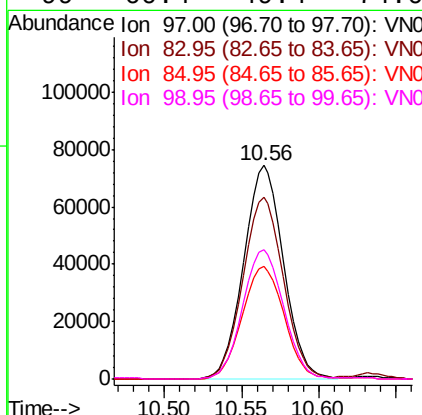
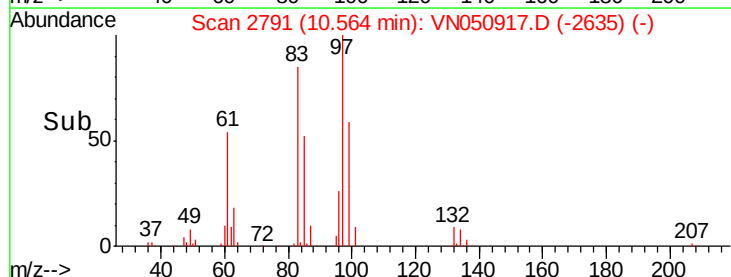
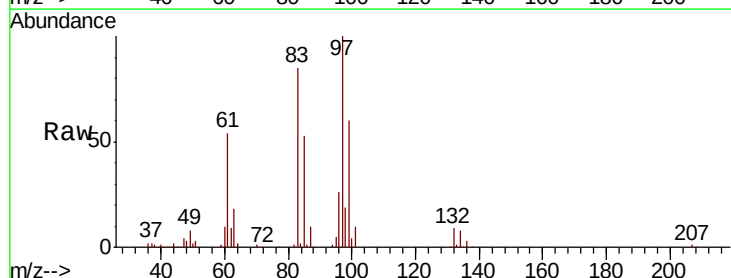
Manual Integrations
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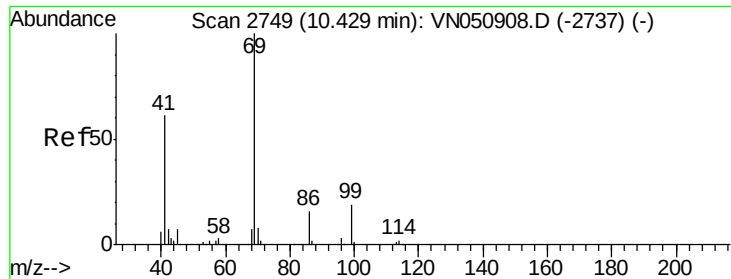
MMDadoda
 8/29/2018 11:10:25 AM



#50
 1,1,2-Trichloroethane
 Concen: 19.22 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.1	68.1	102.1
85	52.6	45.4	68.2
99	60.4	49.4	74.0





#51

Ethyl methacrylate

Concen: 17.81 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

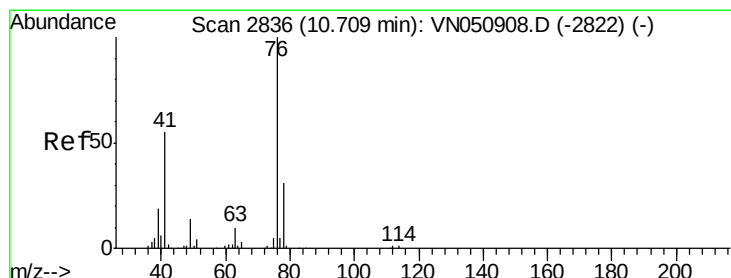
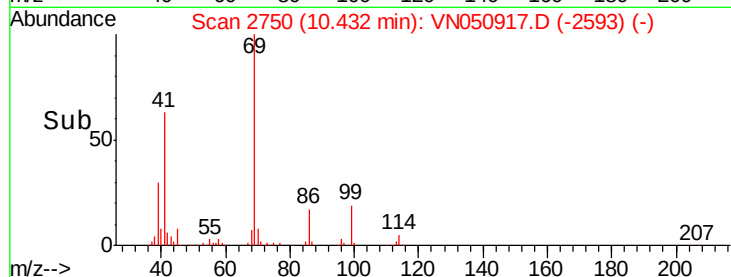
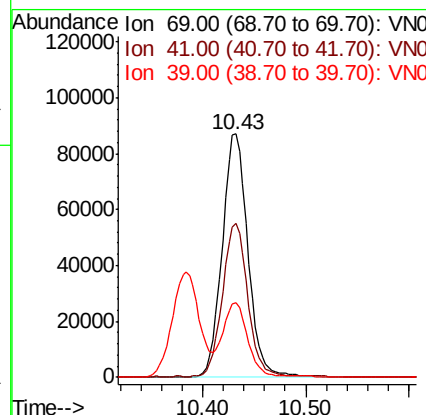
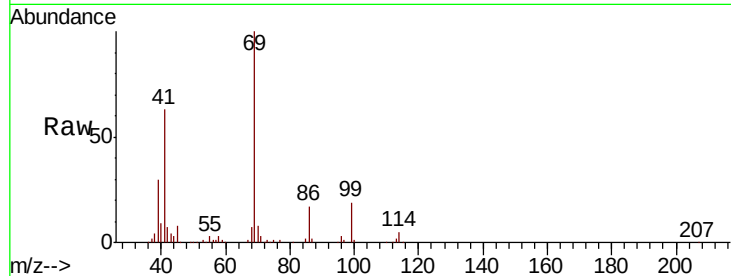
ClientSampled :

VN0828WBSD01

Tot Ion:	69	Resp:	151496
Ion	Ratio	Lower	Upper
69	100		
41	62.7	31.9	95.9
39	30.2	16.7	50.1

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8/29/2018 11:10:25 AM



#52

1,3-Dichloropropane

Concen: 19.02 ug/l

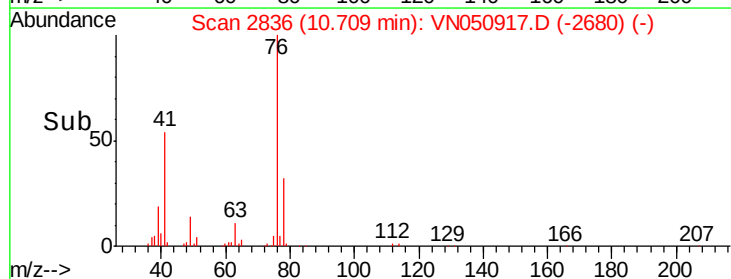
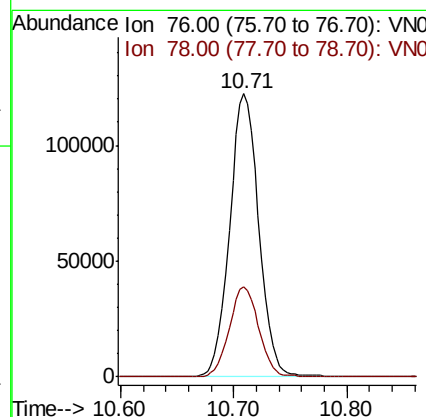
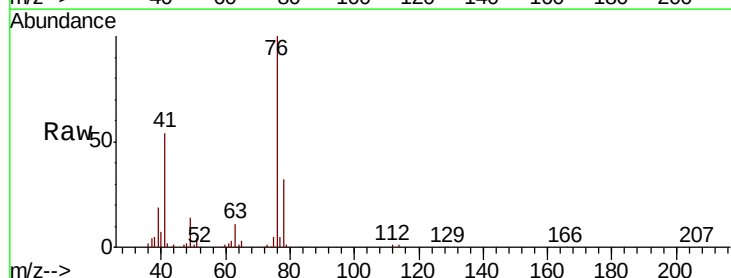
RT: 10.71 min Scan# 2836

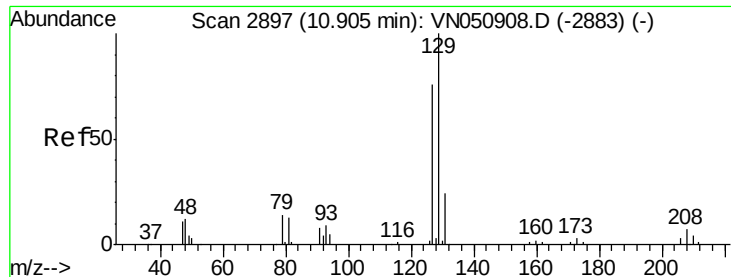
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	76	Resp:	218984
Ion	Ratio	Lower	Upper
76	100		
78	32.2	0.0	65.6





#53

Dibromochloromethane

Concen: 18.38 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion:129 Resp: 145250

Ion Ratio Lower Upper

129 100

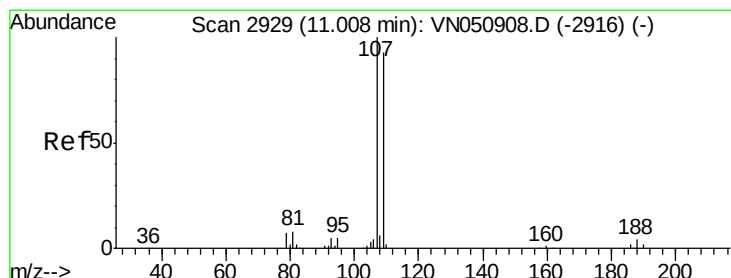
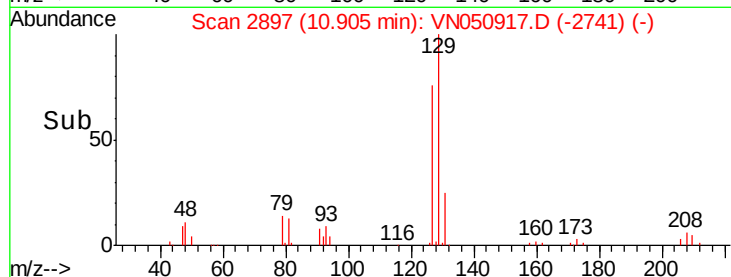
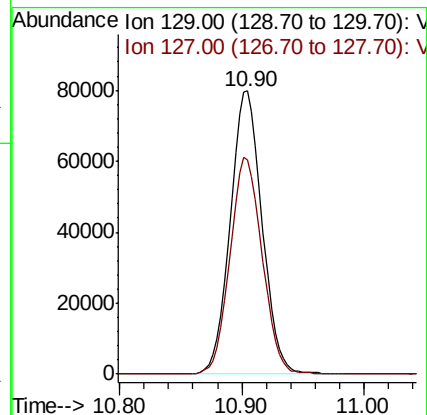
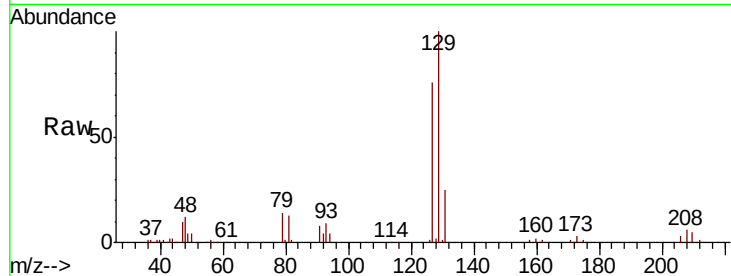
127 77.2 38.1 114.5

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 18.52 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050917.D

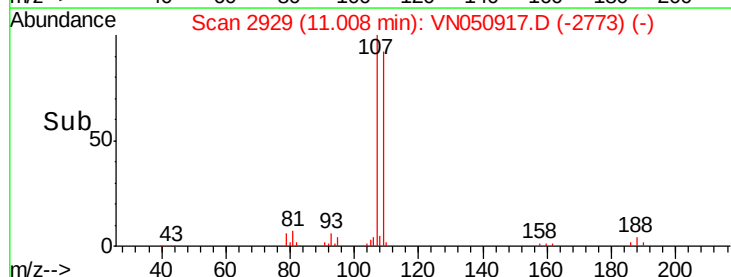
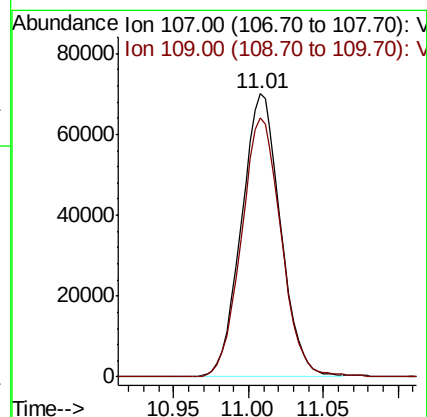
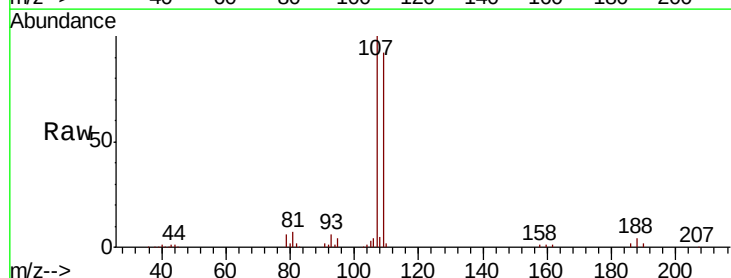
Acq: 28 Aug 2018 16:34

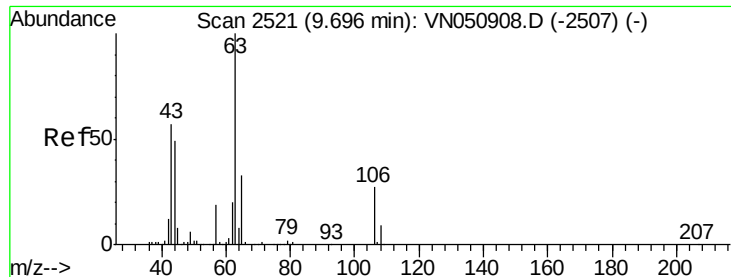
Tgt Ion:107 Resp: 127311

Ion Ratio Lower Upper

107 100

109 93.5 76.2 114.2





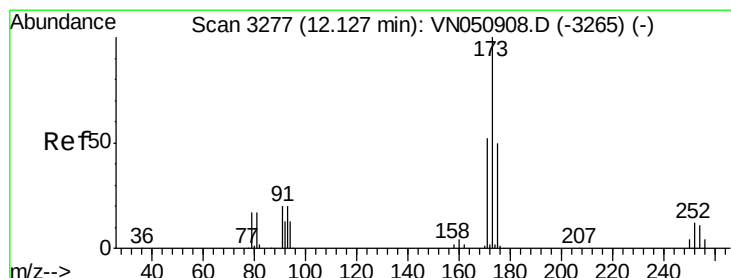
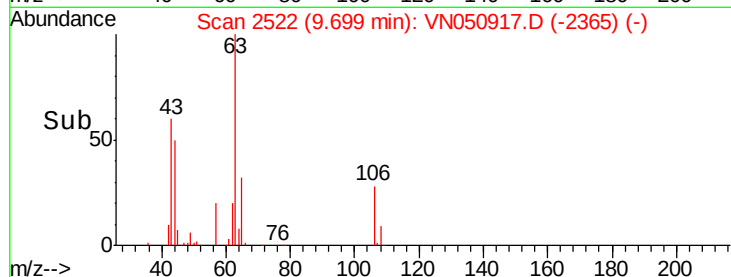
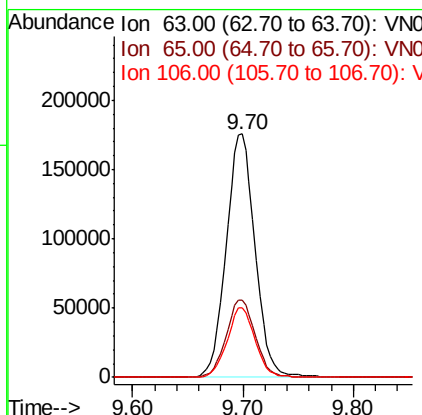
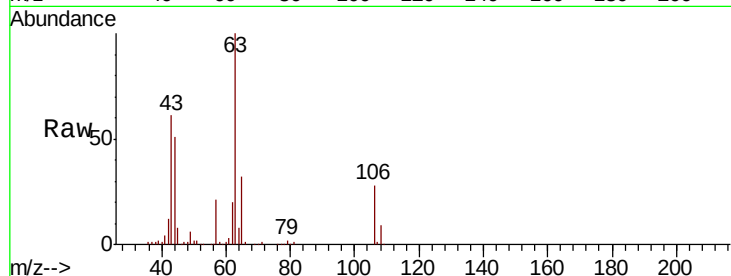
#55
 2-Chloroethyl vinyl ether
 Concen: 89.90 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.5	38.3
106	27.8	21.8	32.6

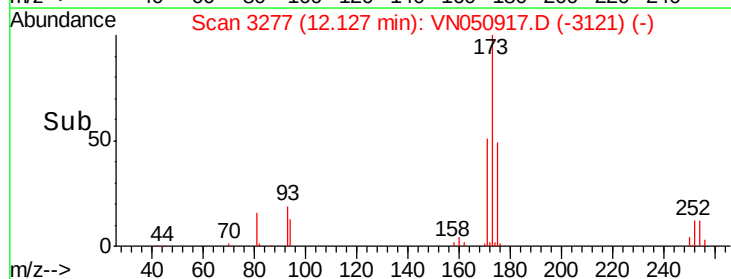
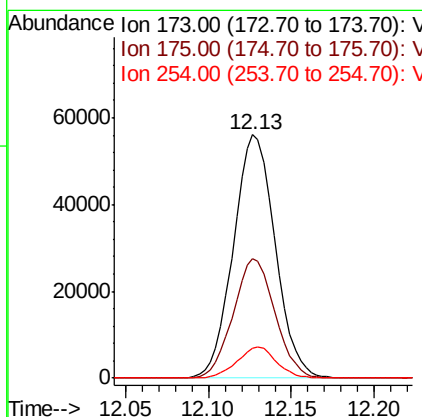
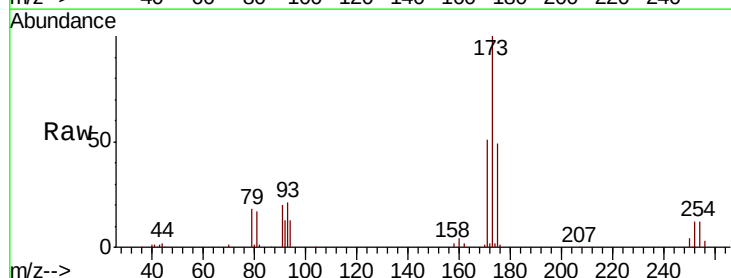
Manual Integrations
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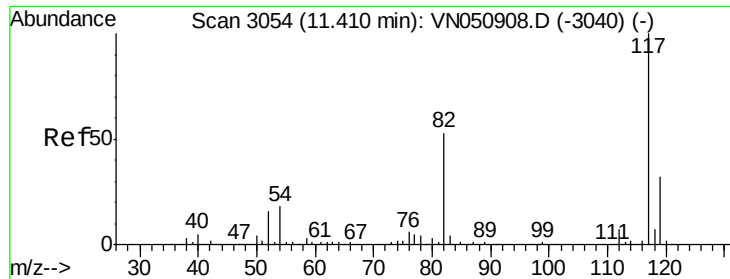
MMDadoda
 8/29/2018 11:10:25 AM



#56
 Bromoform
 Concen: 17.48 ug/l
 RT: 12.13 min Scan# 3277
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.6	57.8
254	11.9	8.8	13.2





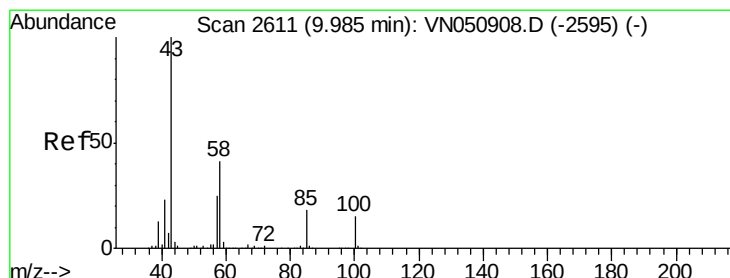
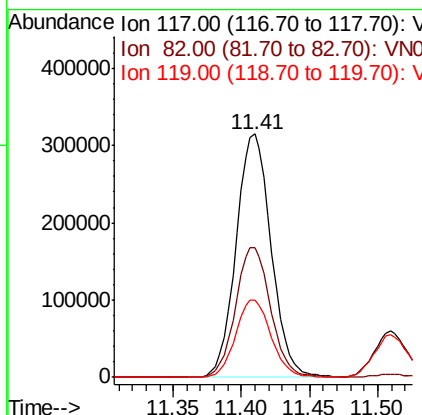
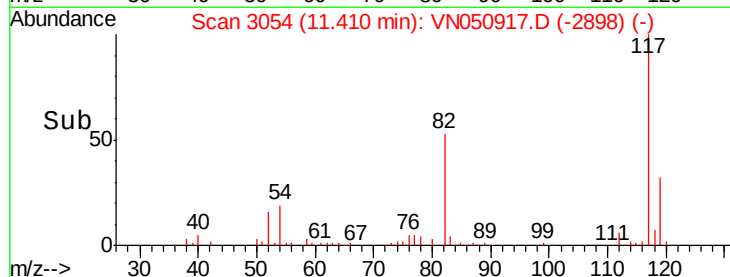
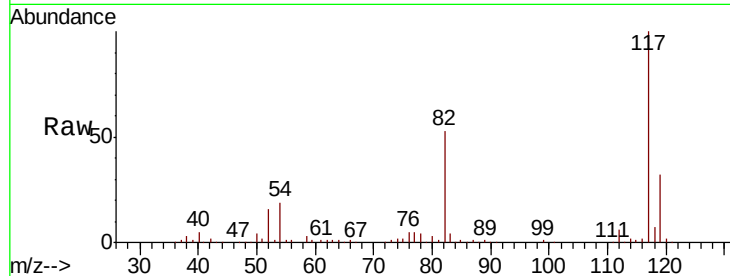
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.4	63.6
119	32.3	25.4	38.0

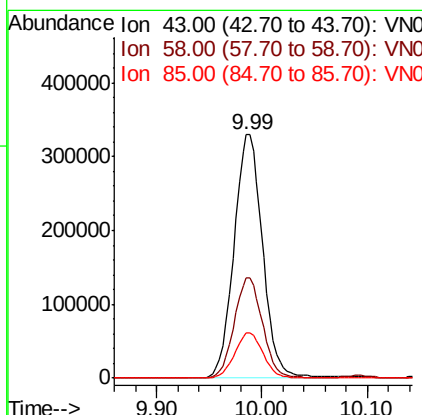
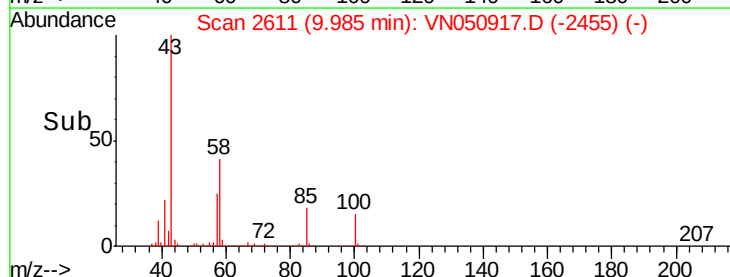
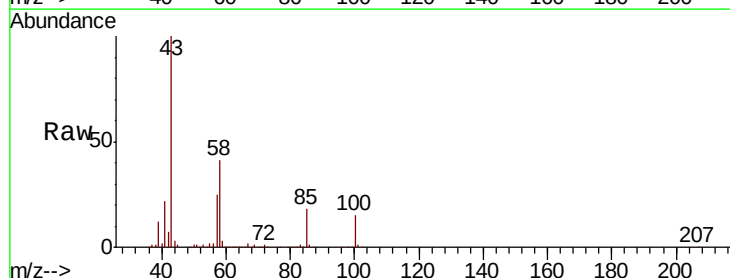
Manual Integrations
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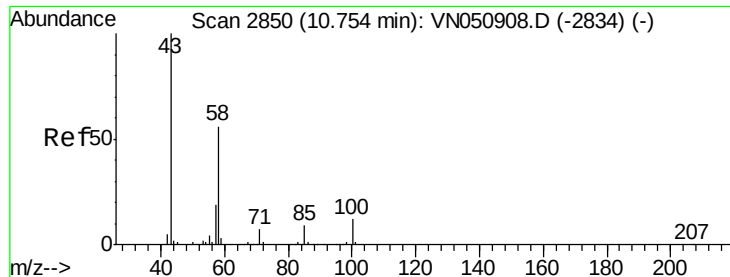
MMDadoda
8/29/2018 11:10:25 AM



#58
4-Methyl-2-Pentanone
Concen: 96.25 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.8	31.2	46.8
85	18.4	14.4	21.6





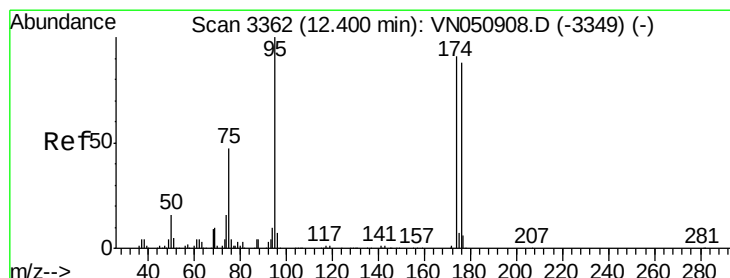
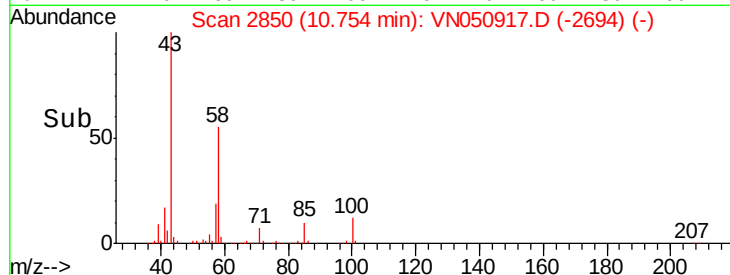
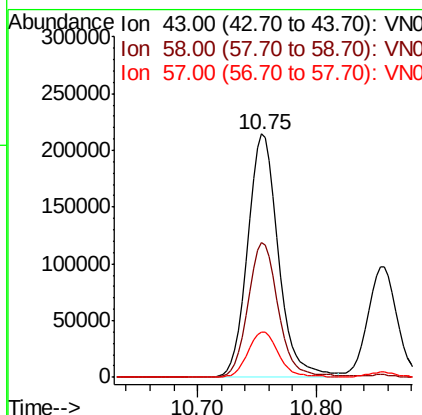
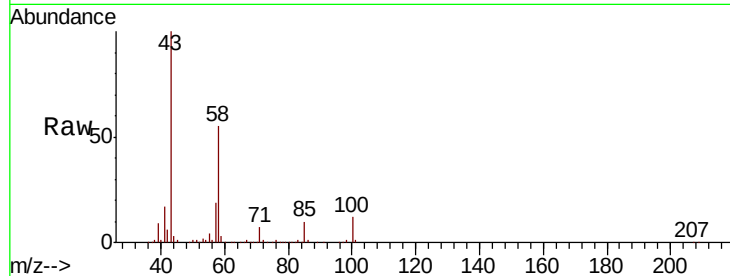
#59
2-Hexanone
Concen: 91.44 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.0	43.8	65.8
57	18.9	15.1	22.7

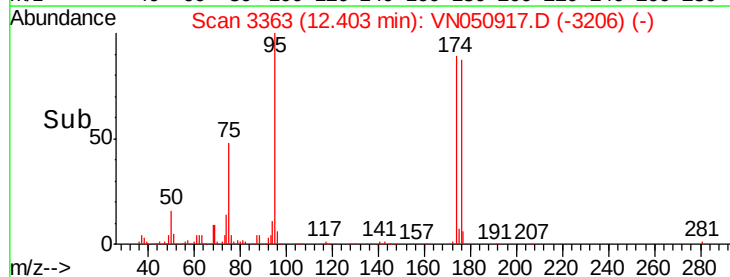
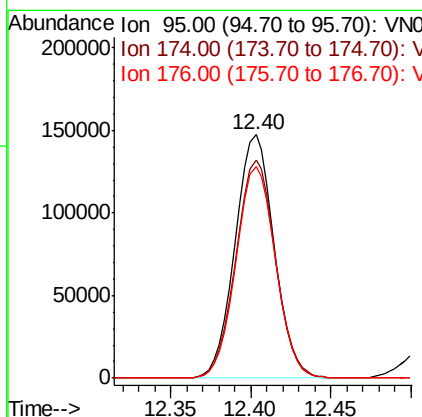
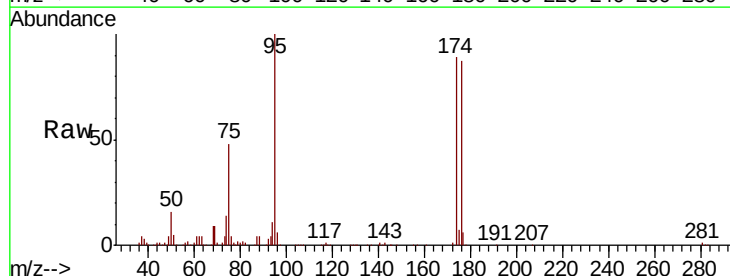
Manual Integrations
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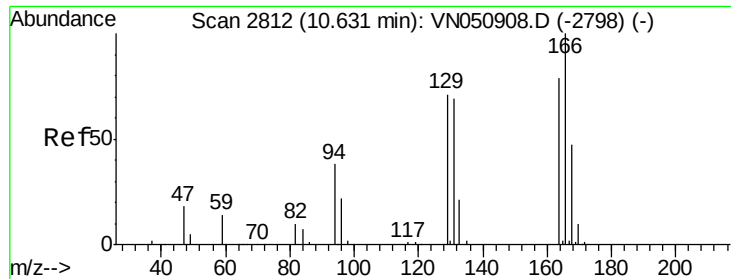
MMDadoda
8/29/2018 11:10:25 AM



#60
4-Bromofluorobenzene
Concen: 29.37 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	72.3	108.5
176	88.0	70.0	105.0





#61

Tetrachloroethene

Concen: 20.02 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

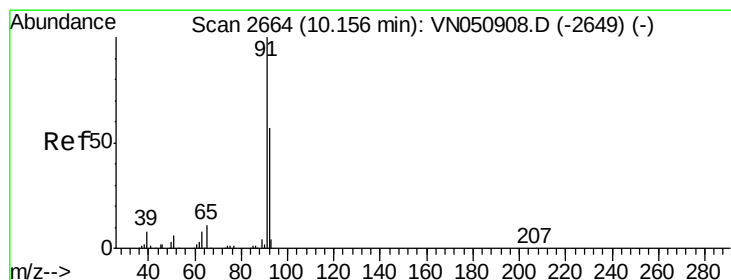
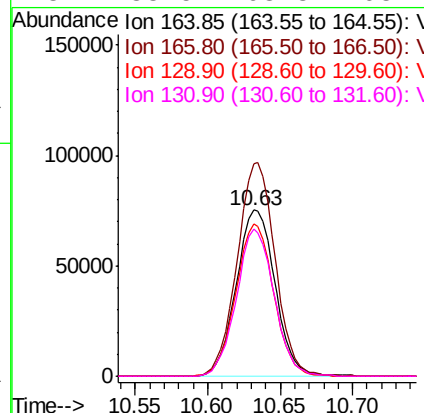
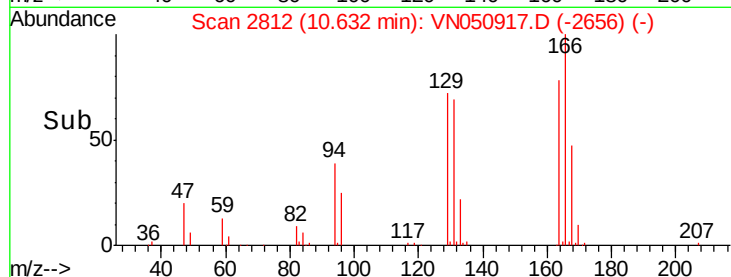
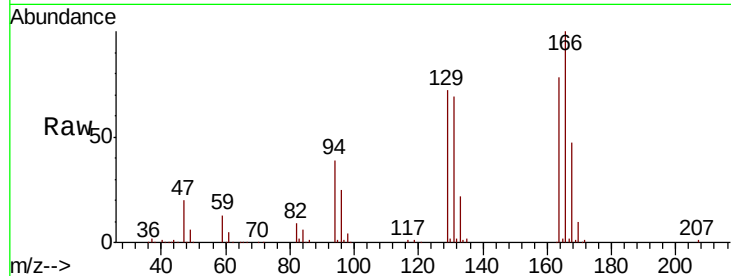
ClientSampleId :

VN0828WBSD01

Tot Ion:	164	Resp:	140006
Ion Ratio	Lower	Upper	
164	100		
166	127.9	100.0	150.0
129	91.7	69.3	103.9
131	88.5	68.8	103.2

Manual Integrations
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#62

Toluene

Concen: 19.41 ug/l

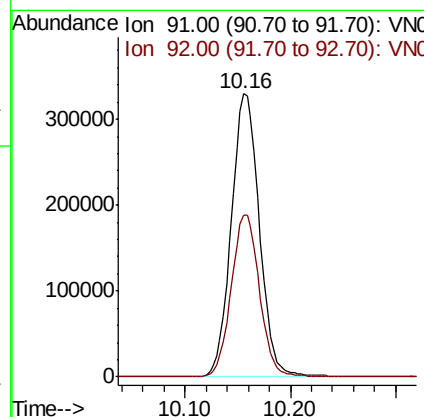
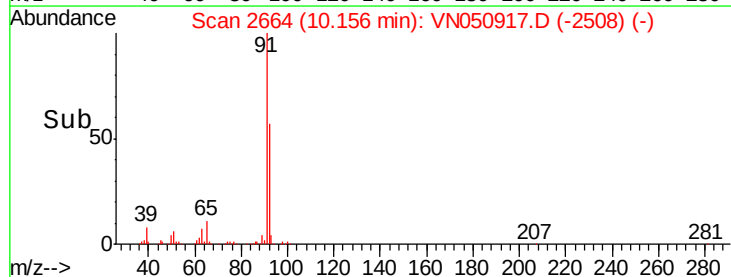
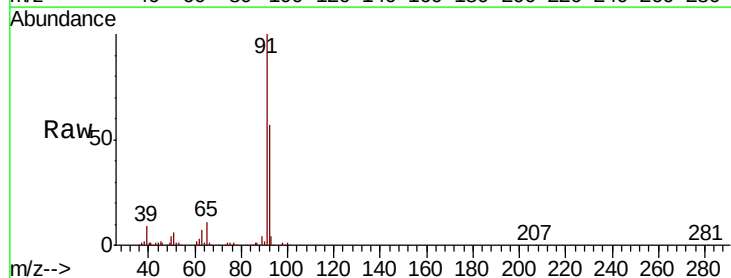
RT: 10.16 min Scan# 2664

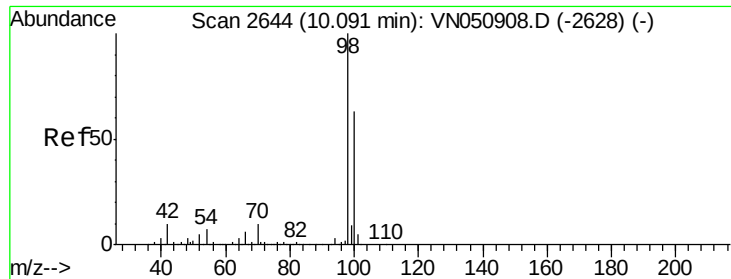
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	91	Resp:	607719
Ion Ratio	Lower	Upper	
91	100		
92	57.5	45.7	68.5





#63

Toluene-d8

Concen: 31.02 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion: 98 Resp: 811839

Ion Ratio Lower Upper

98 100

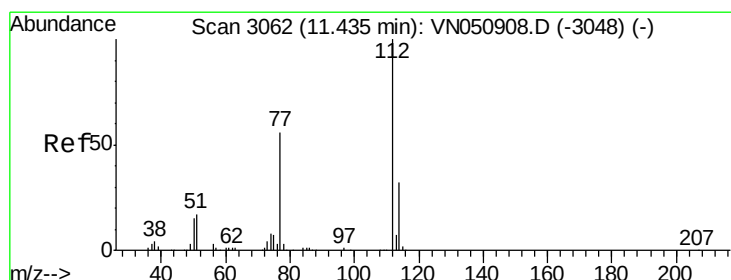
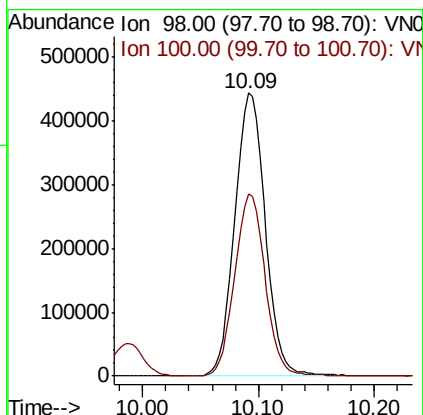
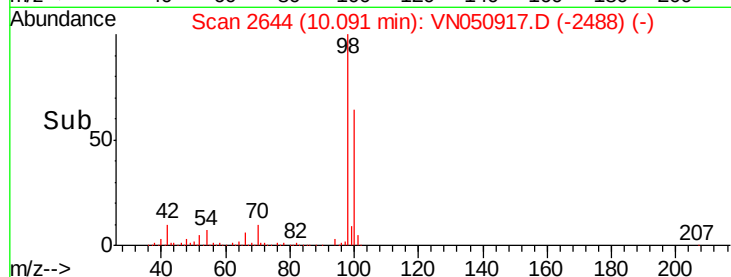
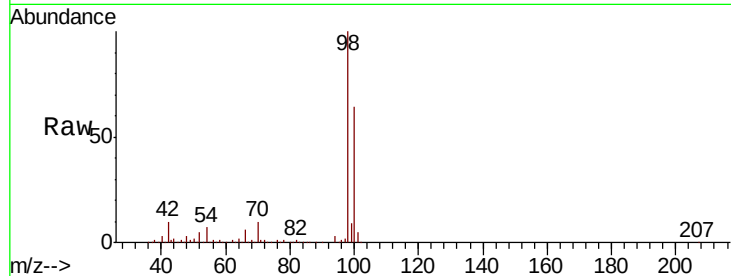
100 64.5 51.2 76.8

Manual Integrations

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#64

Chlorobenzene

Concen: 18.98 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050917.D

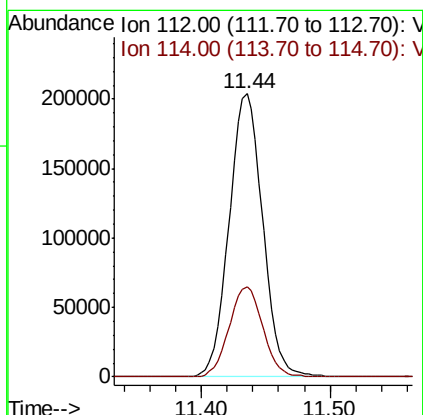
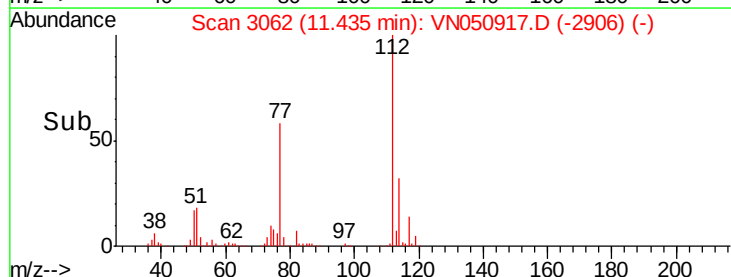
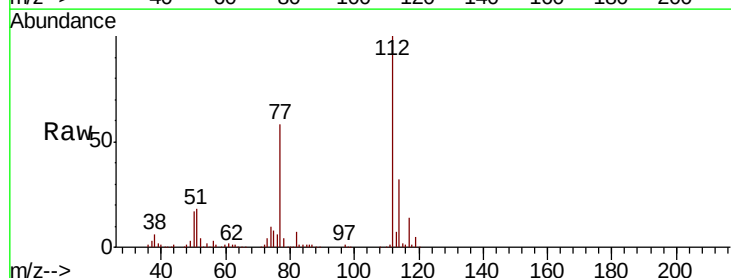
Acq: 28 Aug 2018 16:34

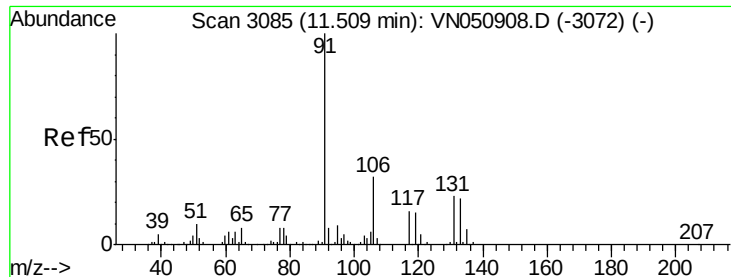
Tgt Ion: 112 Resp: 368433

Ion Ratio Lower Upper

112 100

114 31.7 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.74 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

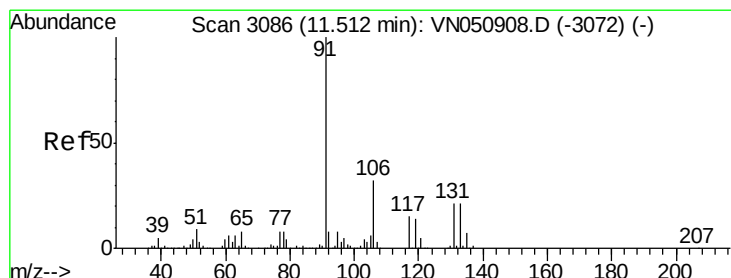
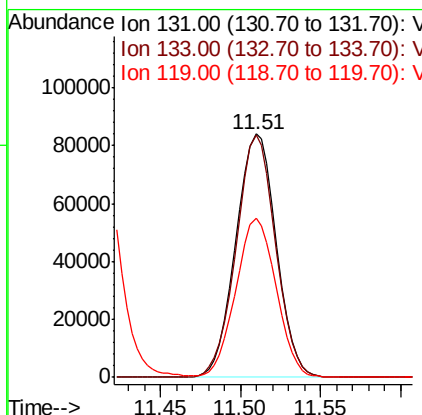
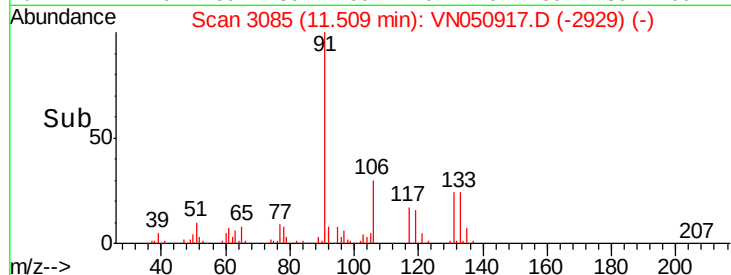
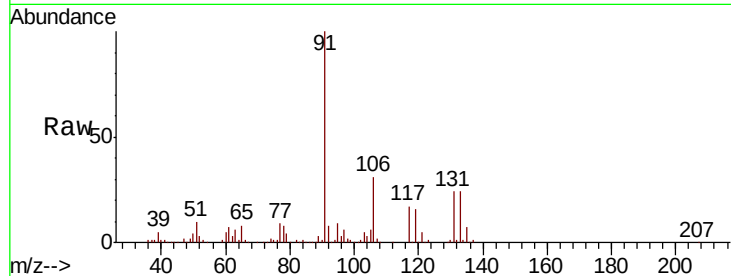
ClientSampleId :

VN0828WBSD01

Tot Ion:	131	Resp:	144645
Ion Ratio	Lower	Upper	
131	100		
133	96.9	0.0	190.0
119	65.4	0.0	131.6

Manual Integrations
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#66

Ethyl Benzene

Concen: 18.69 ug/l

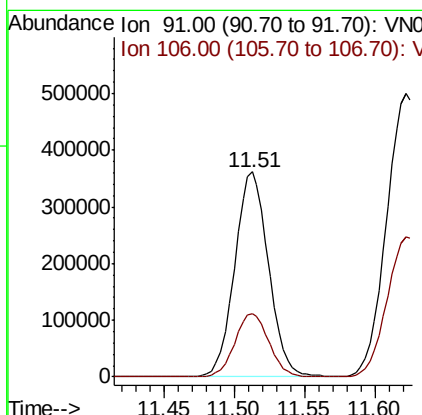
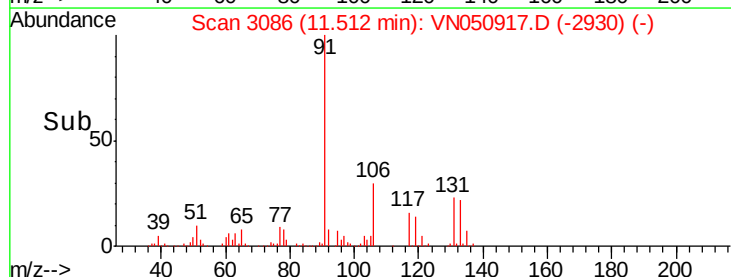
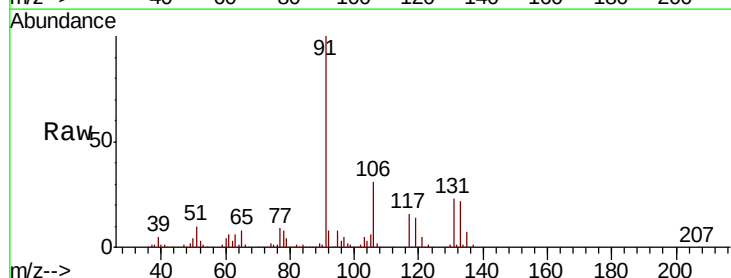
RT: 11.51 min Scan# 3086

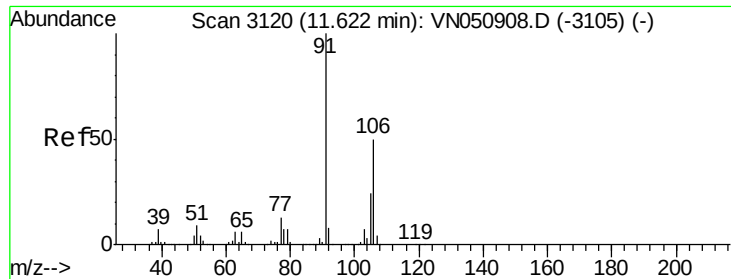
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	91	Resp:	606349
Ion Ratio	Lower	Upper	
91	100		
106	31.1	25.1	37.7





#67

m/p-Xylenes

Concen: 38.02 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampled :

VN0828WBSD01

Tot Ion:106 Resp: 474442

Ion Ratio Lower Upper

106 100

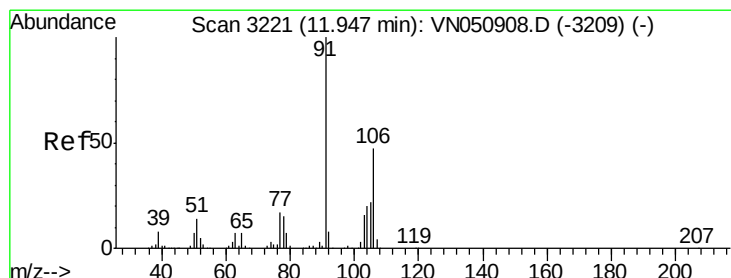
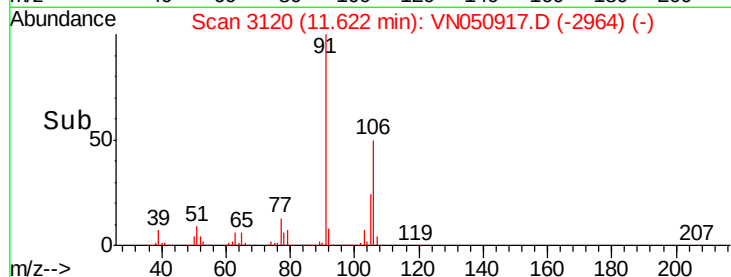
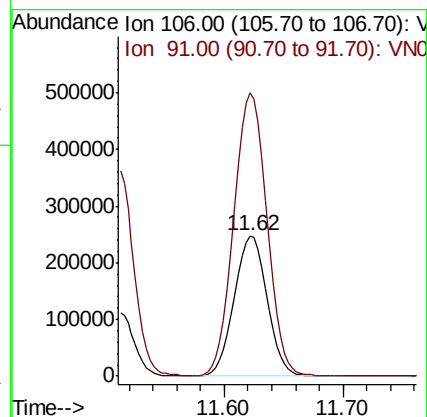
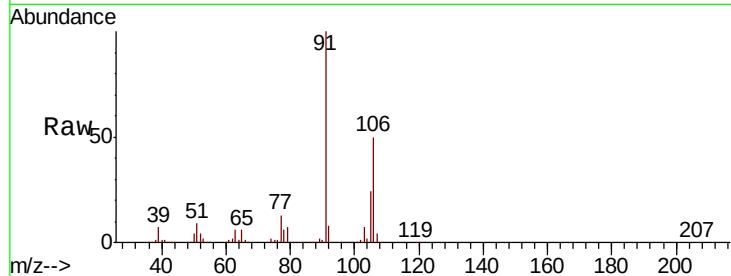
91 203.7 162.5 243.7

Manual Integrations

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#68

o-Xylene

Concen: 19.19 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050917.D

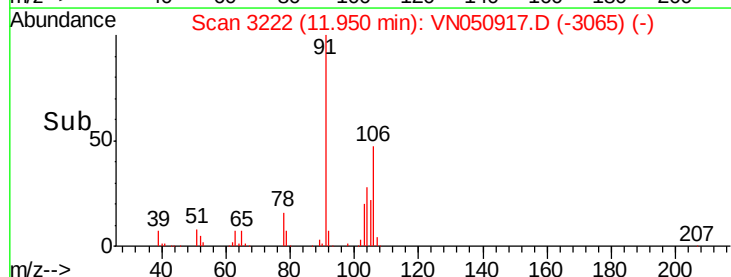
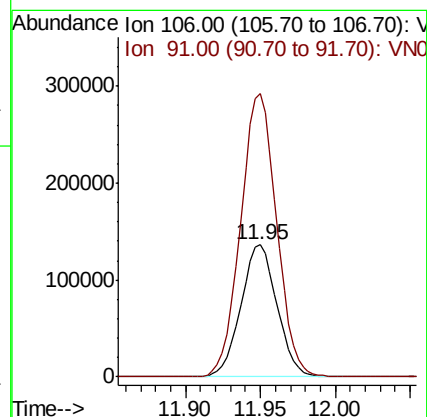
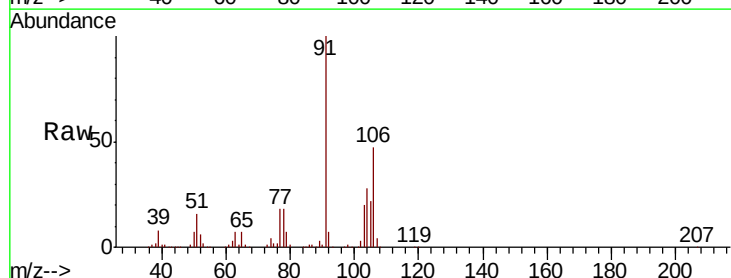
Acq: 28 Aug 2018 16:34

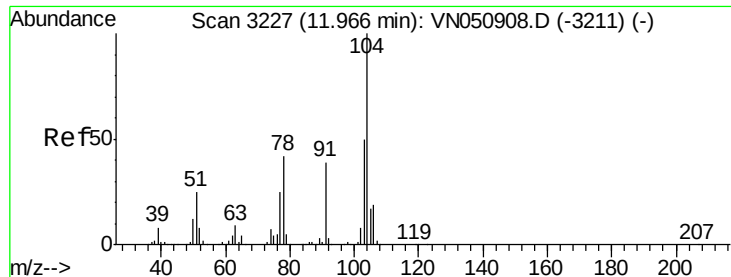
Tgt Ion:106 Resp: 228829

Ion Ratio Lower Upper

106 100

91 214.1 106.8 320.4





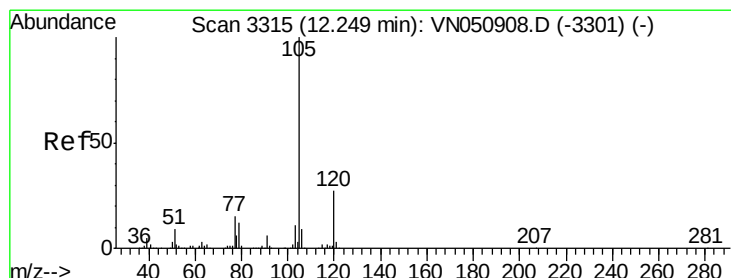
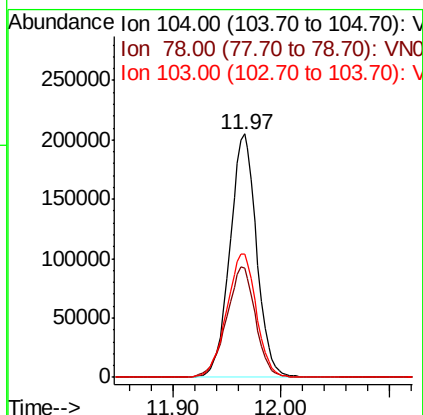
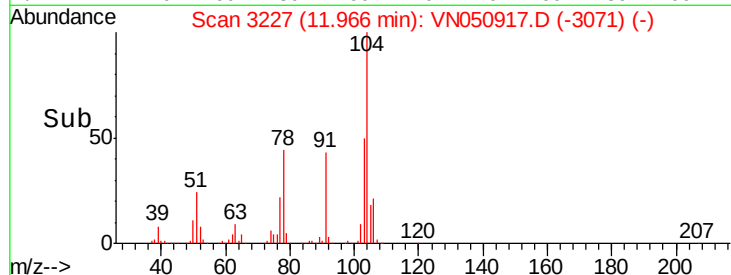
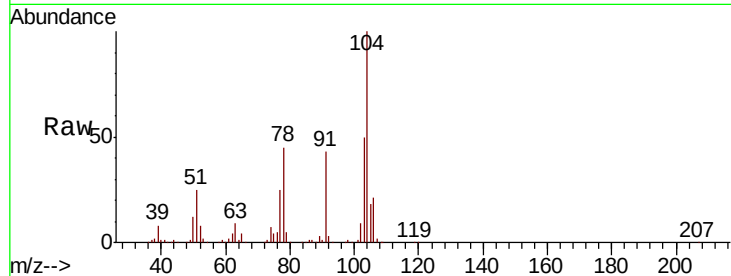
#69
Stvrene
Concen: 18.64 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion:	104	Resp:	353423
Ion Ratio	Lower	Upper	
104	100		
78	49.3	39.3	58.9
103	56.3	44.5	66.7

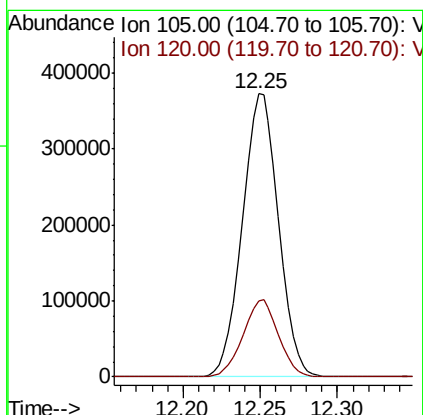
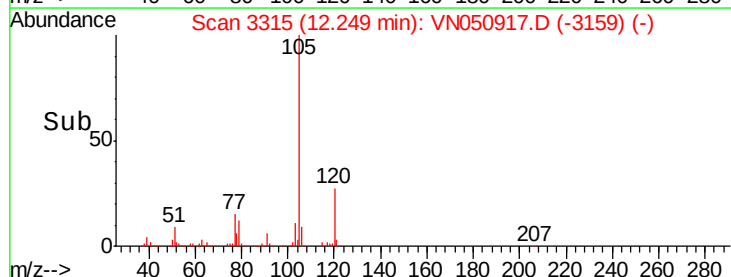
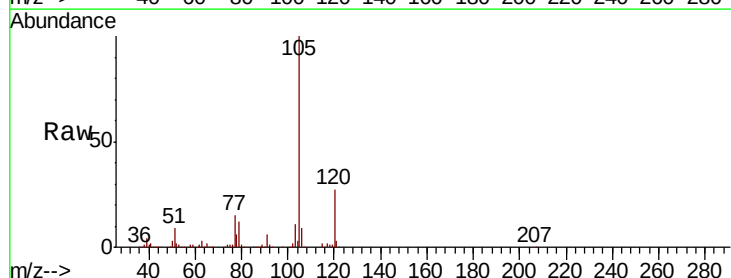
Manual Integrations
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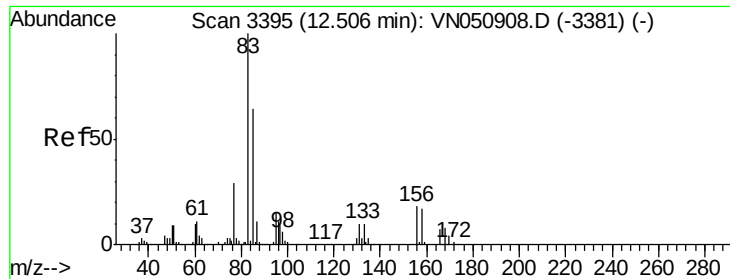
MMDadoda
8/29/2018 11:10:25 AM



#70
Isopropylbenzene
Concen: 19.08 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion:	105	Resp:	604639
Ion Ratio	Lower	Upper	
105	100		
120	26.8	18.9	35.1





#71

1,1,2,2-Tetrachloroethane

Concen: 19.56 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

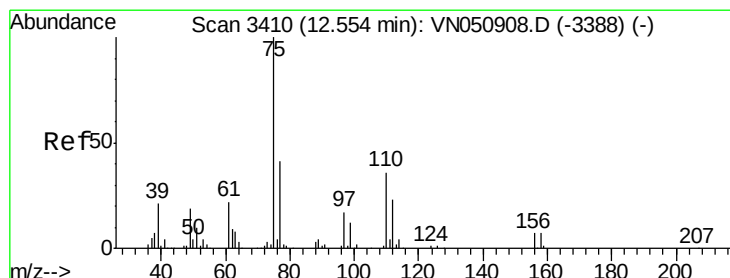
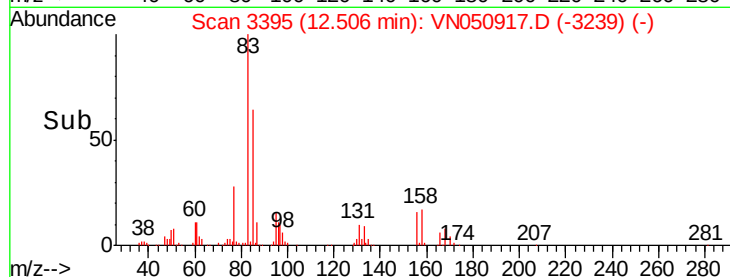
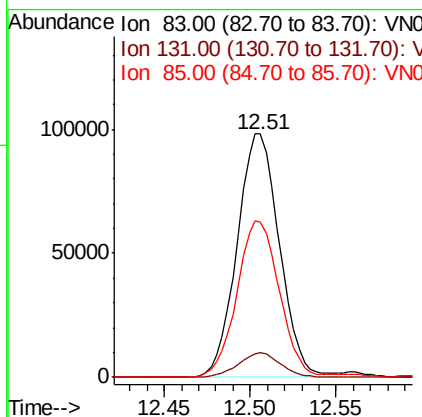
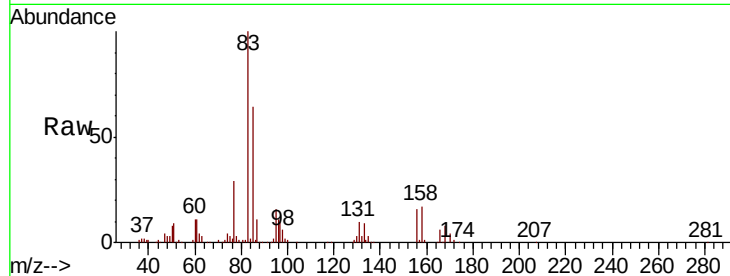
ClientSampled :

VN0828WBSD01

Tot Ion:	83	Resp:	167765
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.2	15.6
85	64.4	31.7	95.1

Manual Integrations
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8/29/2018 11:10:25 AM



#72

1,2,3-Trichloropropane

Concen: 18.77 ug/l m

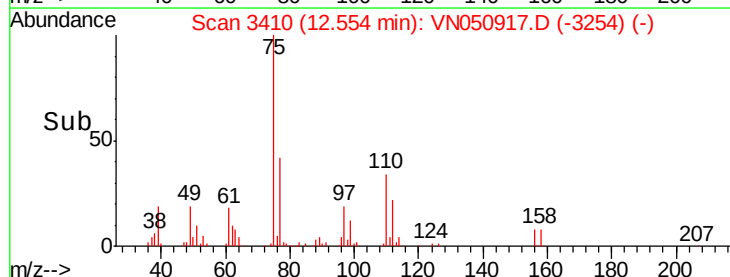
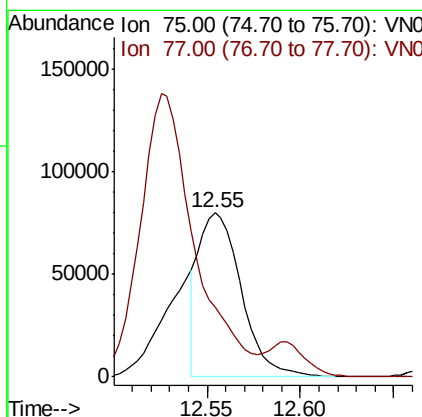
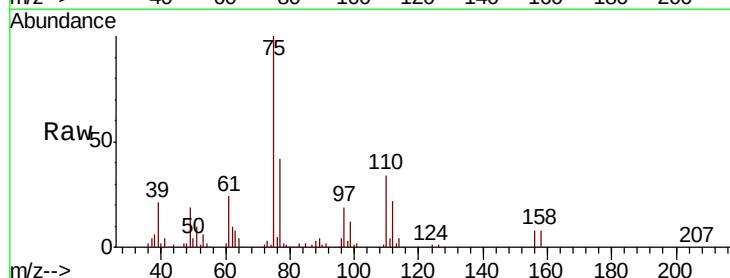
RT: 12.55 min Scan# 3410

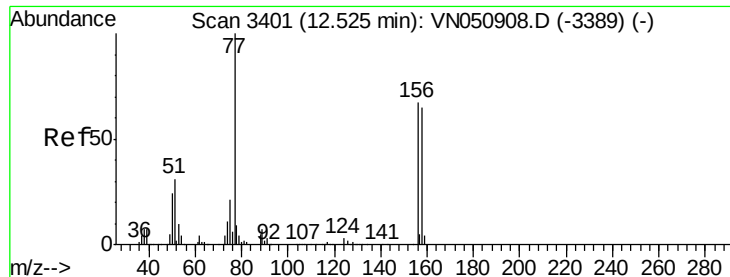
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	75	Resp:	126450
Ion Ratio	Lower	Upper	
75	100		
77	222.9	0.0	454.4





#73

Bromobenzene

Concen: 18.70 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

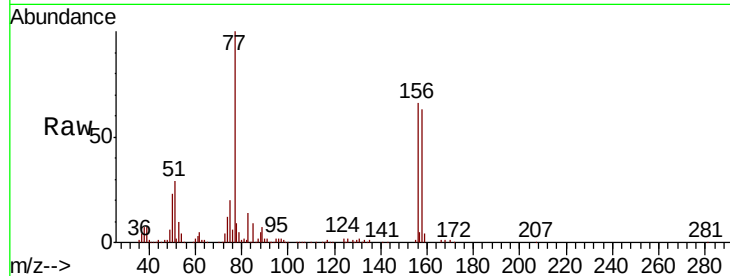
ClientSampleId :

VN0828WBSD01

Tot Ion:	156	Resp:	155935
Ion Ratio	Lower	Upper	
156	100		
77	180.8	0.0	359.8
158	97.1	0.0	192.8

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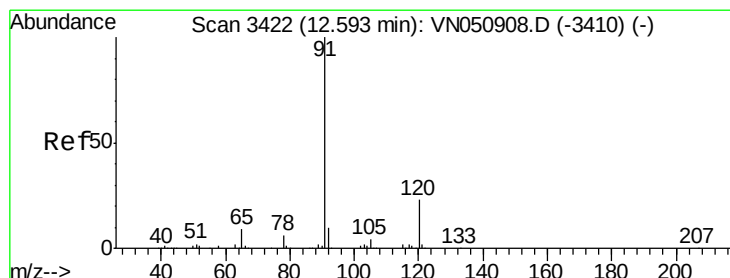
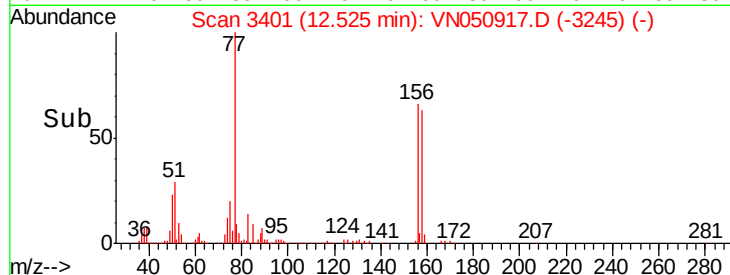
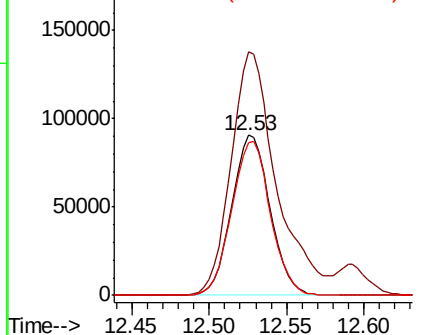
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 18.78 ug/l

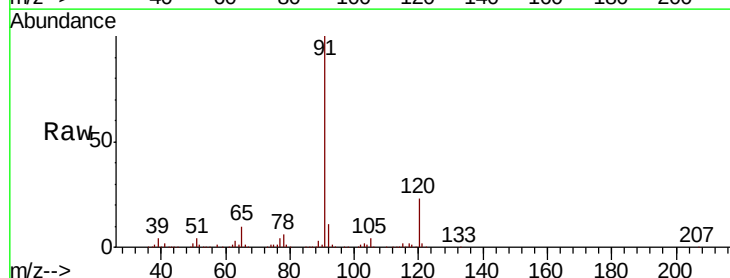
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050917.D

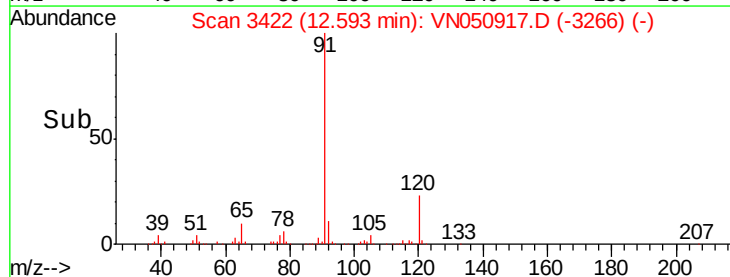
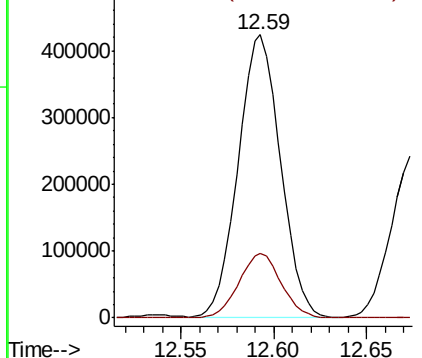
Acq: 28 Aug 2018 16:34

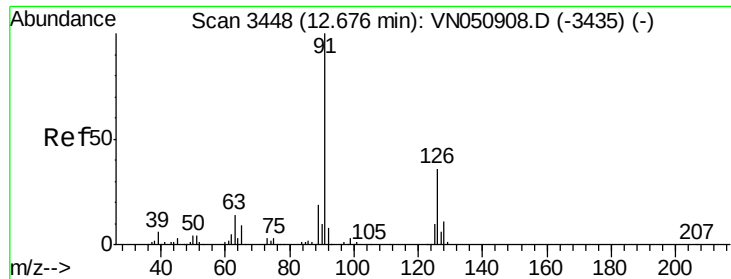
Tgt Ion:	91	Resp:	672624
Ion Ratio	Lower	Upper	
91	100		
120	22.7	0.0	46.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 18.87 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampled :

VN0828WBSD01

Tot Ion: 91 Resp: 410748

Ion Ratio Lower Upper

91 100

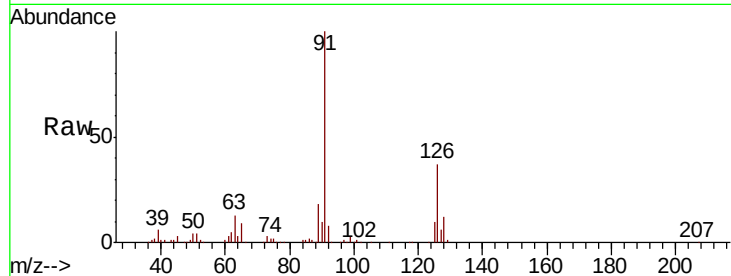
126 35.4 0.0 68.6

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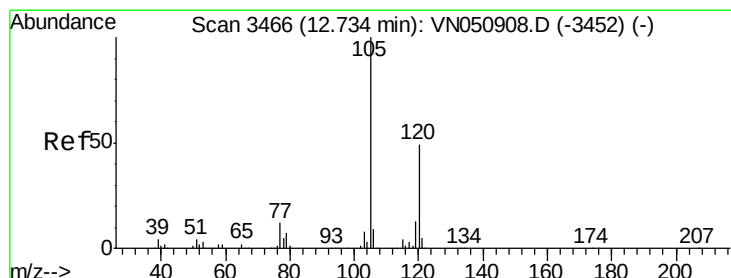
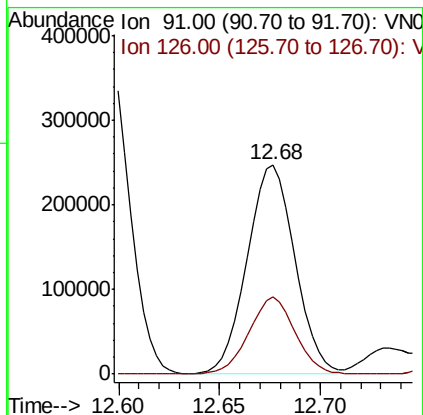
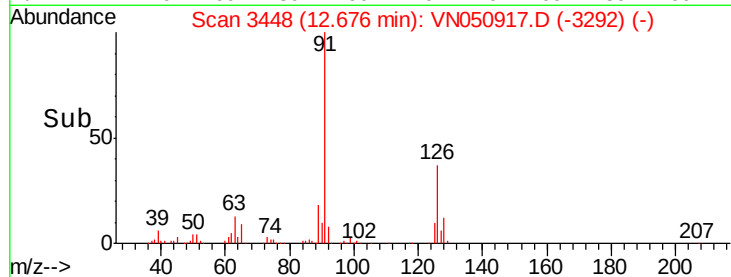
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Abundance Ion 91.00 (90.70 to 91.70): VN050917.D (-3292) (-)

Ion 126.00 (125.70 to 126.70): VN050917.D (-3292) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.03 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050917.D

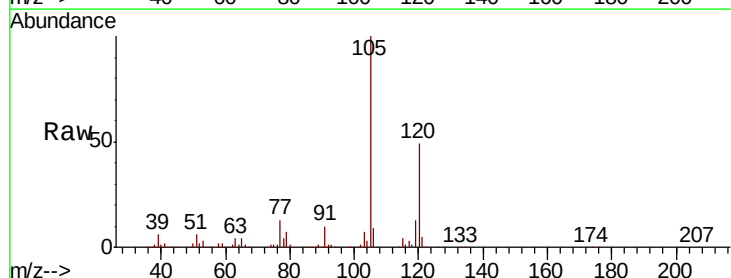
Acq: 28 Aug 2018 16:34

Tgt Ion: 105 Resp: 492708

Ion Ratio Lower Upper

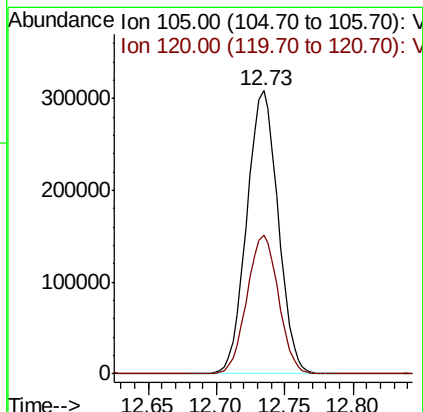
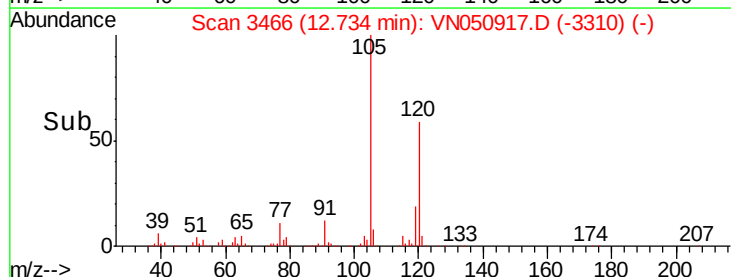
105 100

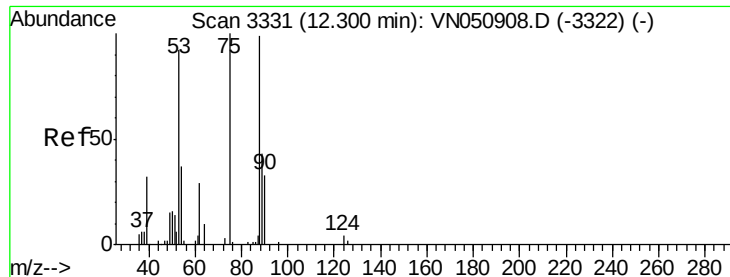
120 49.4 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): VN050917.D (-3310) (-)

Ion 120.00 (119.70 to 120.70): VN050917.D (-3310) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 17.40 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

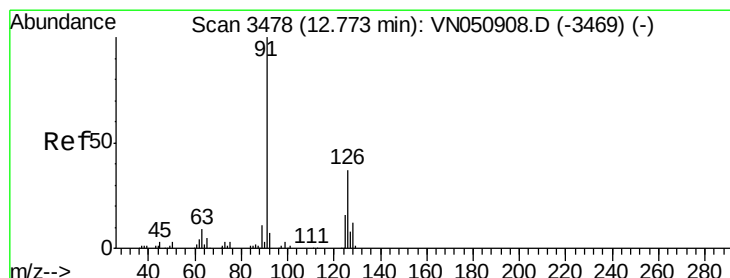
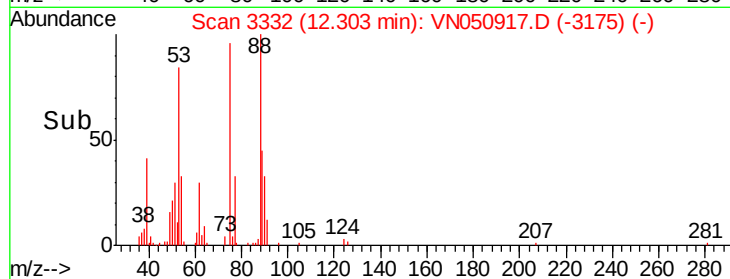
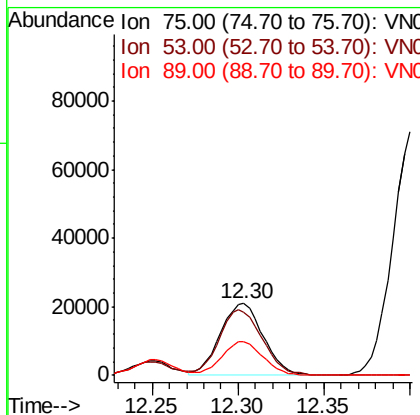
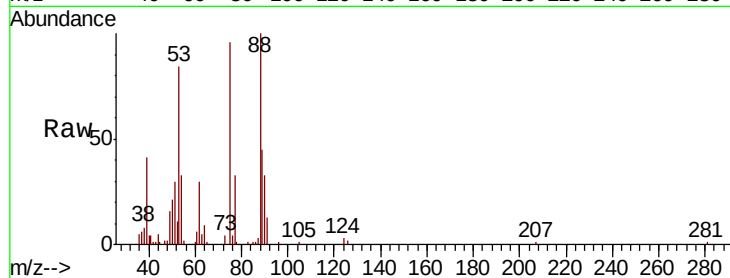
ClientSampleId :

VN0828WBSD01

Tot Ion:	75	Resp:	36699
Ion	Ratio	Lower	Upper
75	100		
53	87.0	44.6	134.0
89	46.6	20.7	62.1

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#78

4-Chlorotoluene

Concen: 18.77 ug/l

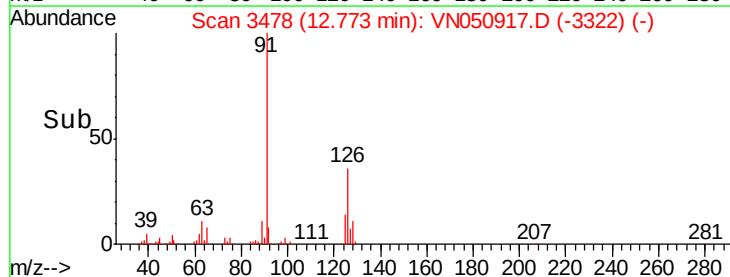
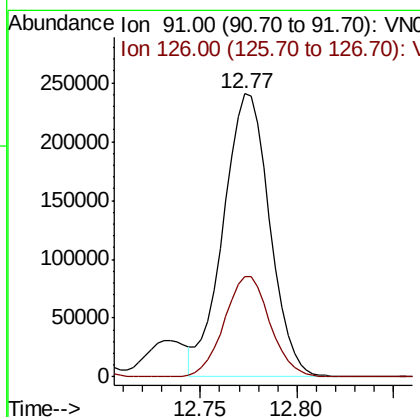
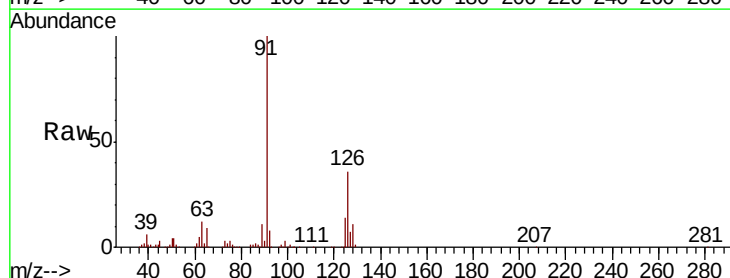
RT: 12.77 min Scan# 3478

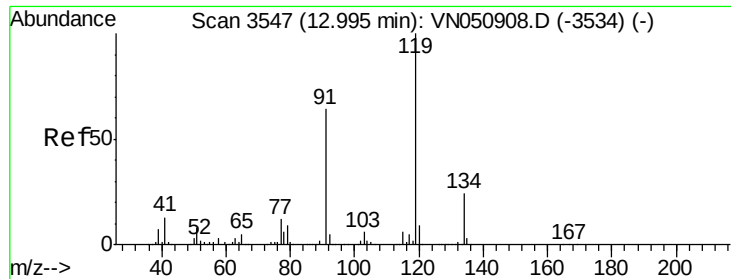
Delta R.T. 0.00 min

Lab File: VN050917.D

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Tgt Ion:	91	Resp:	402124
Ion	Ratio	Lower	Upper
91	100		
126	34.9	0.0	68.4





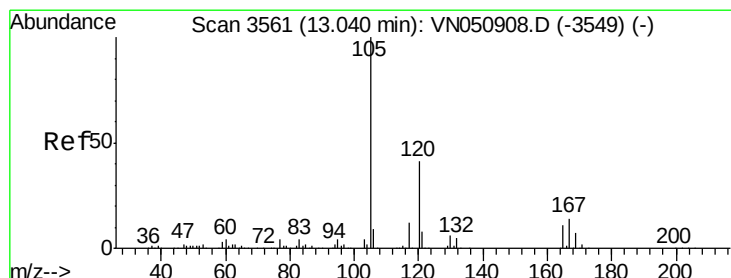
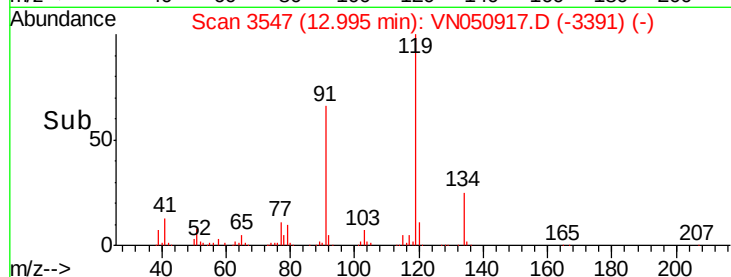
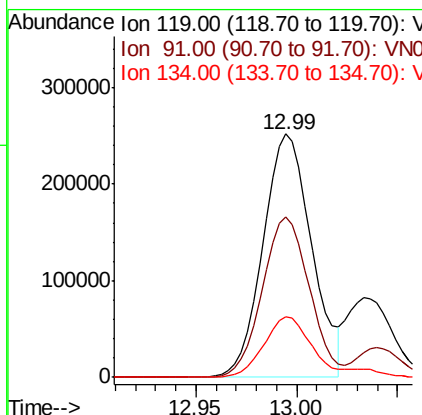
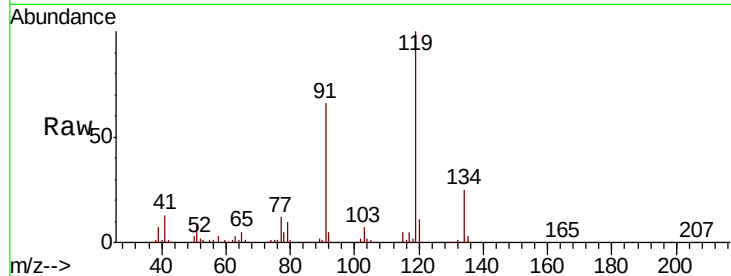
#79
tert-butylbenzene
Concen: 18.83 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	423342		
91	63.8	0.0	126.8	
134	24.3	0.0	47.4	

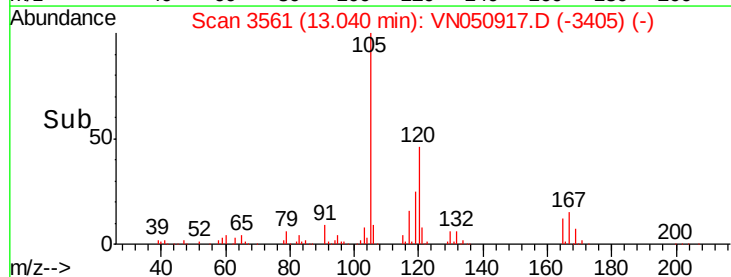
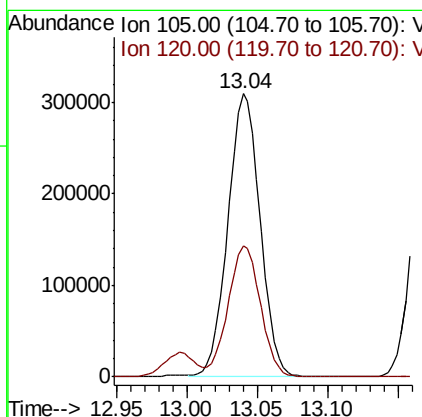
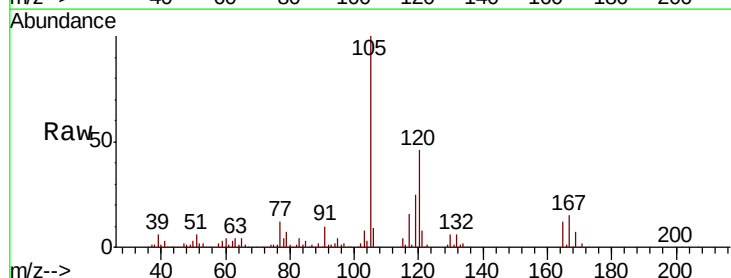
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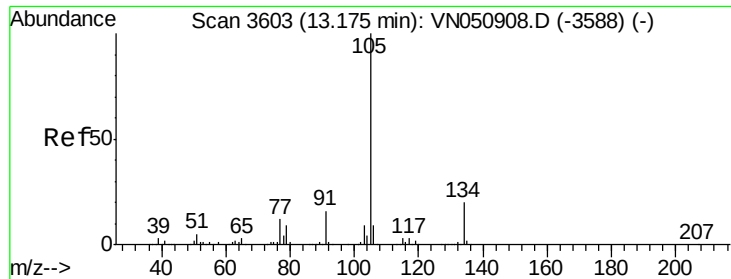
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#80
1,2,4-Trimethylbenzene
Concen: 19.16 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	494746		
120	46.7	0.0	90.6	





#81

sec-Butylbenzene

Concen: 18.91 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

VN0828WBSD01

Tot Ion:105 Resp: 556254

Ion Ratio Lower Upper

105 100

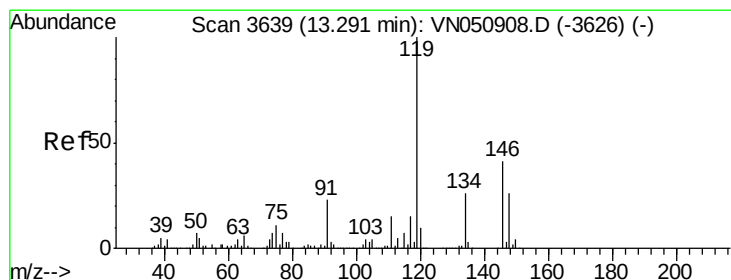
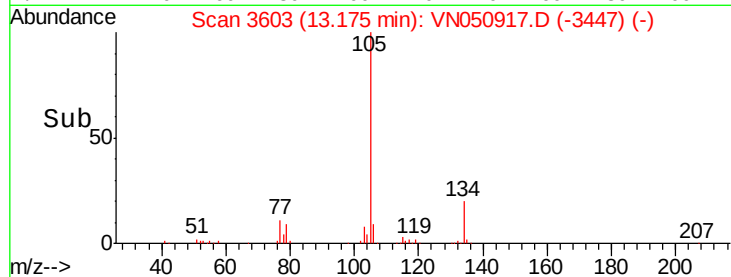
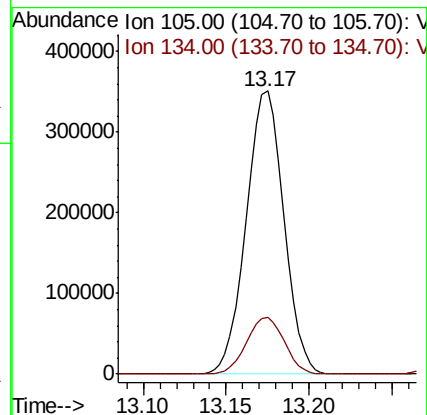
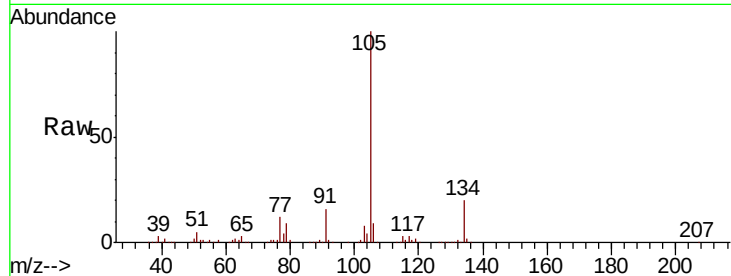
134 20.2 0.0 40.6

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#82

p-Isopropyltoluene

Concen: 18.57 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

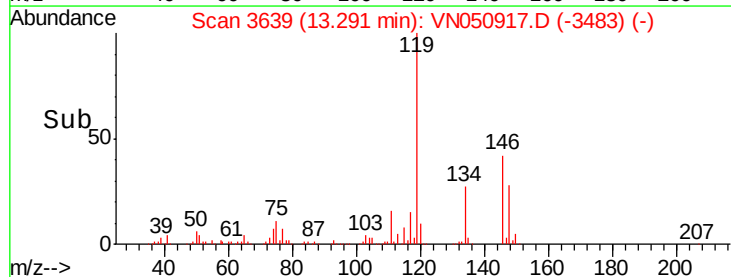
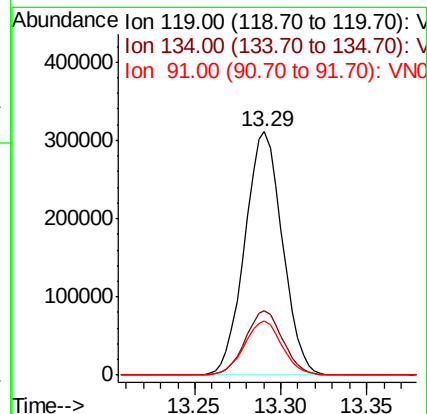
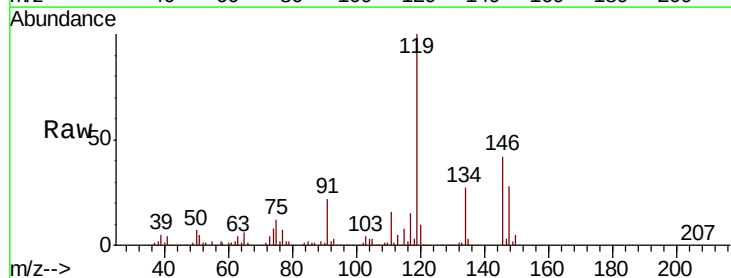
Tgt Ion:119 Resp: 471511

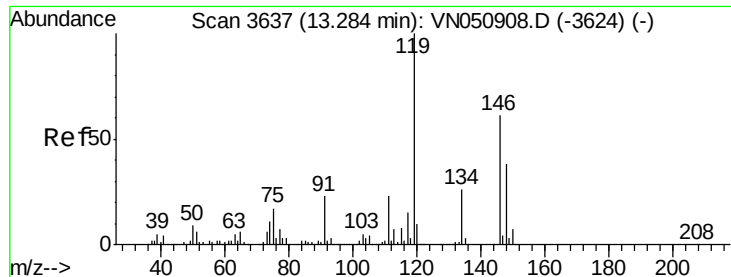
Ion Ratio Lower Upper

119 100

134 26.4 0.0 52.2

91 22.3 0.0 45.6





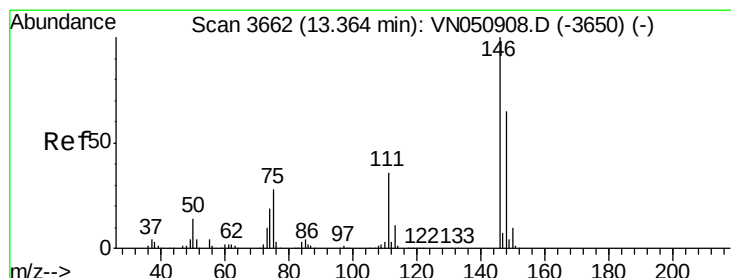
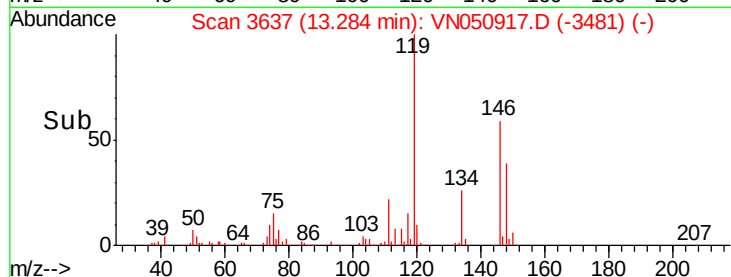
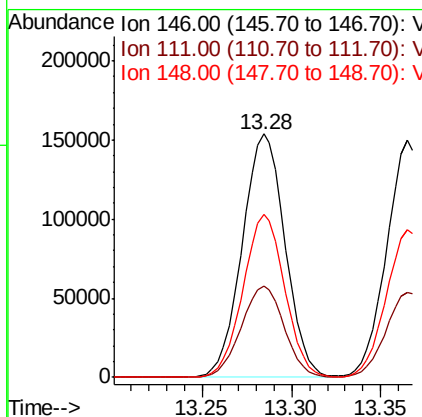
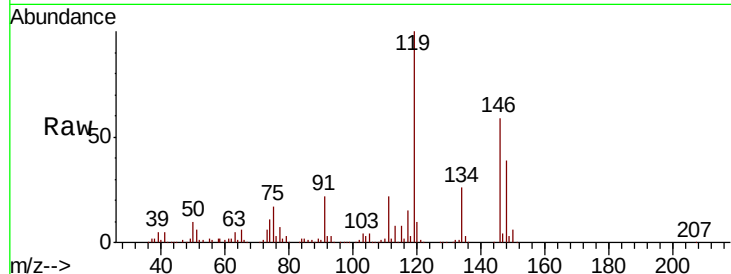
#83
 1,3-Dichlorobenzene
 Concen: 18.25 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	65.1	31.9	95.9

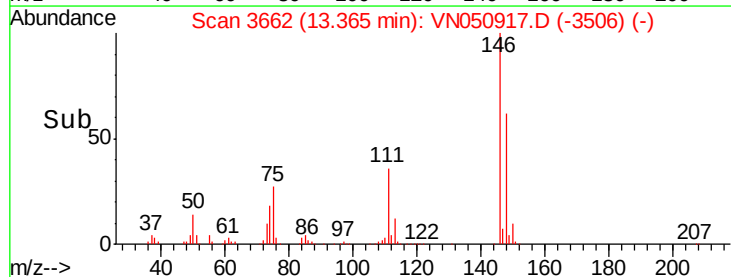
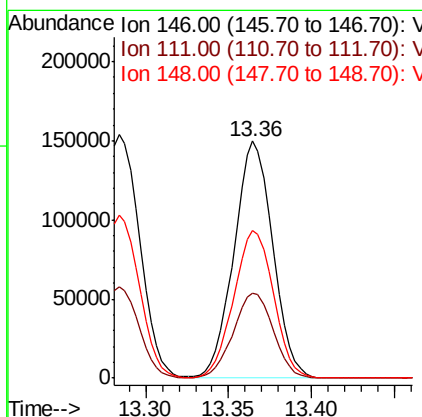
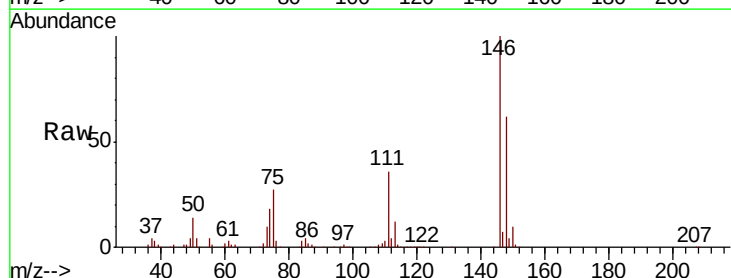
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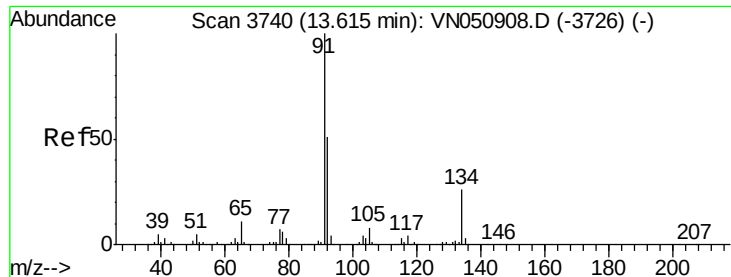
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#84
 1,4-Dichlorobenzene
 Concen: 18.24 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	17.9	53.8
148	64.0	32.4	97.0





#85

n-Butylbenzene

Concen: 17.53 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Instrument :

MSVOA_N

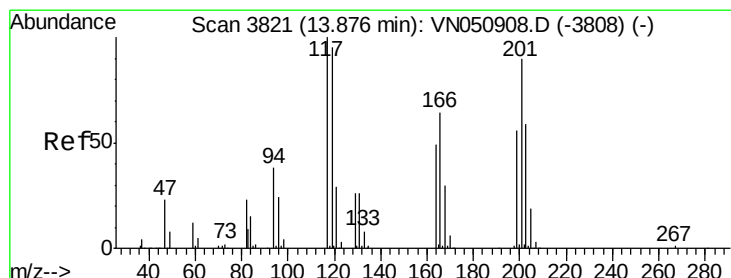
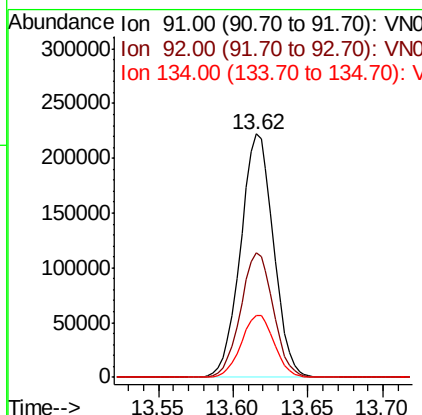
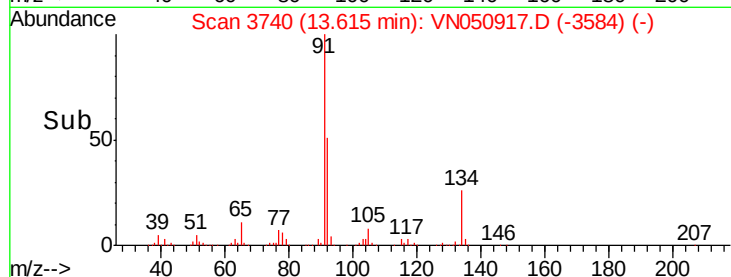
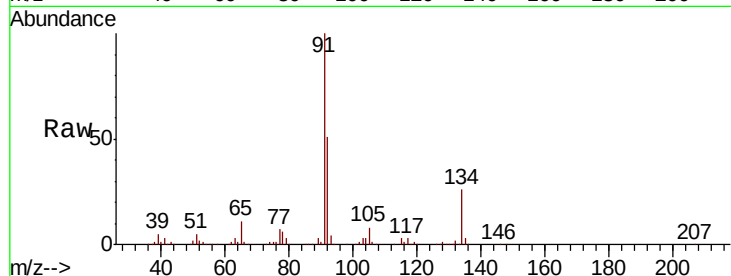
ClientSampleId :

VN0828WBSD01

Tot Ion:	91	Resp:	339796
Ion	Ratio	Lower	Upper
91	100		
92	50.8	0.0	102.8
134	25.6	0.0	51.0

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#86

Hexachloroethane

Concen: 18.26 ug/l

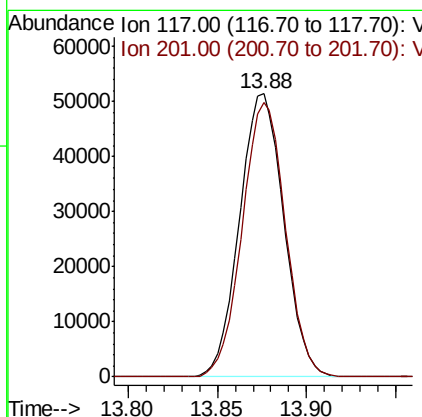
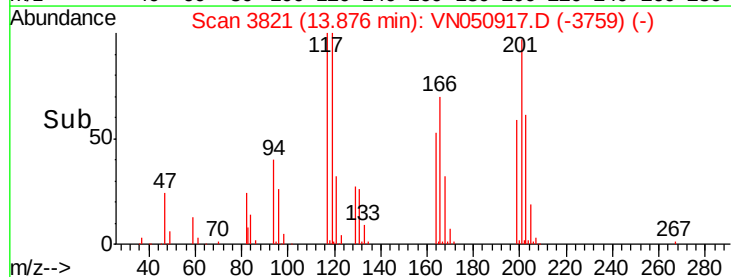
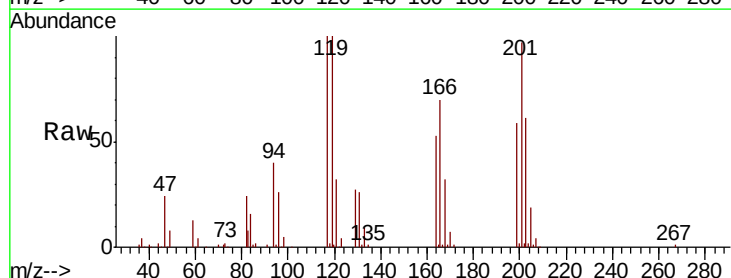
RT: 13.88 min Scan# 3821

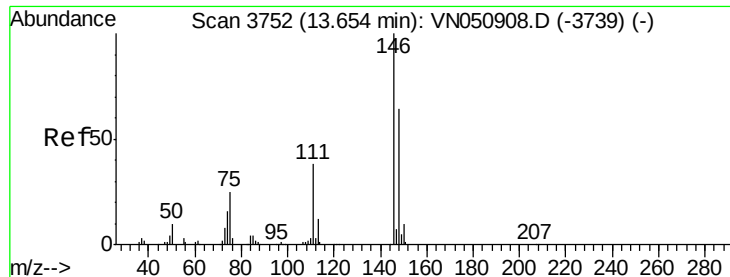
Delta R.T. 0.00 min

Lab File: VN050917.D

Acq: 28 Aug 2018 16:34

Tgt Ion:	117	Resp:	89024
Ion	Ratio	Lower	Upper
117	100		
201	94.3	46.6	139.7





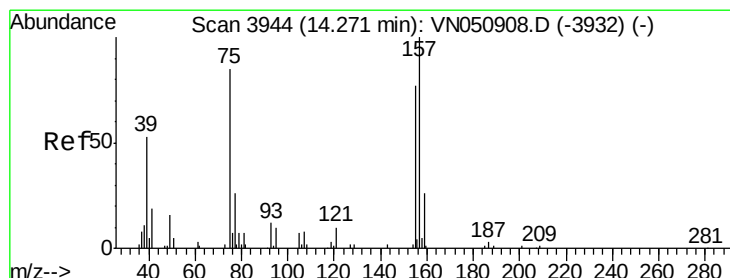
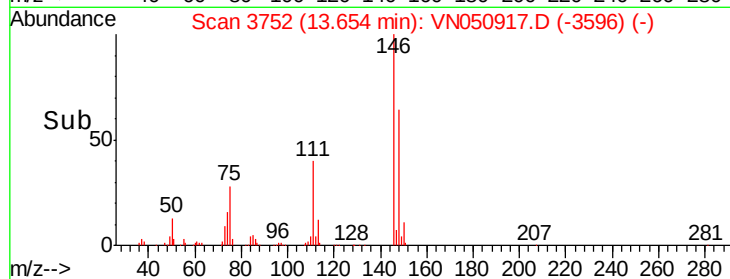
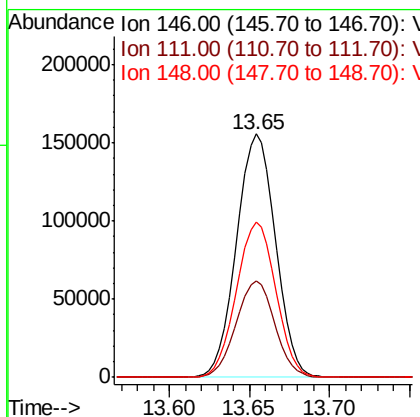
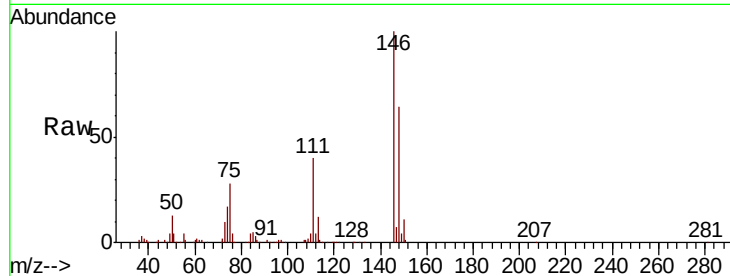
#87
 1,2-Dichlorobenzene
 Concen: 18.64 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	258566		
111	39.3		19.8	59.3
148	64.4		31.8	95.3

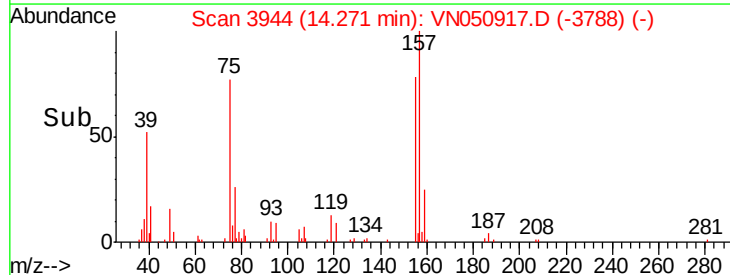
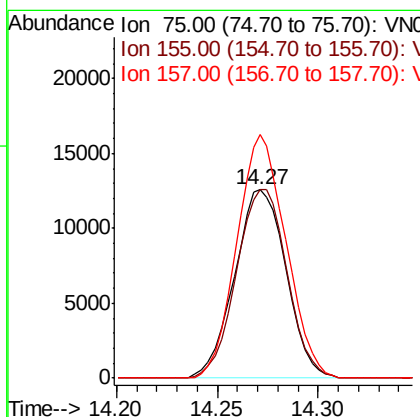
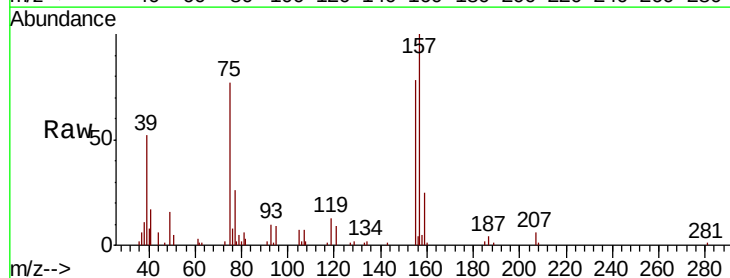
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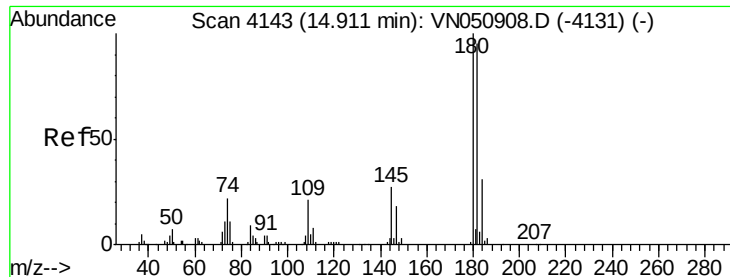
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.74 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22490		
155	98.3		73.0	109.6
157	122.8		94.9	142.3





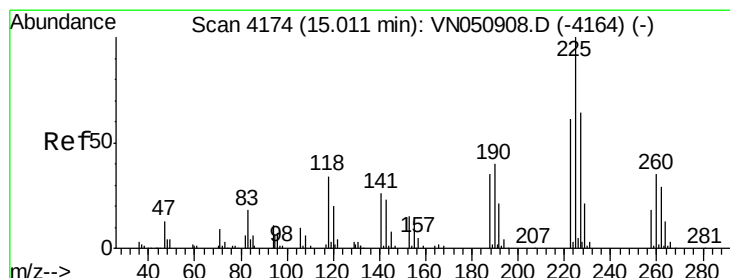
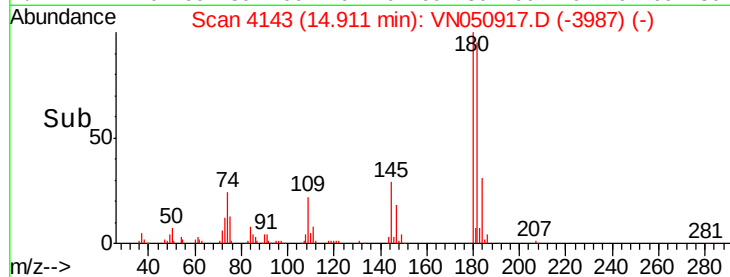
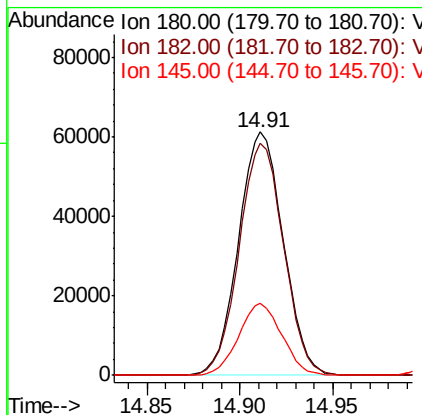
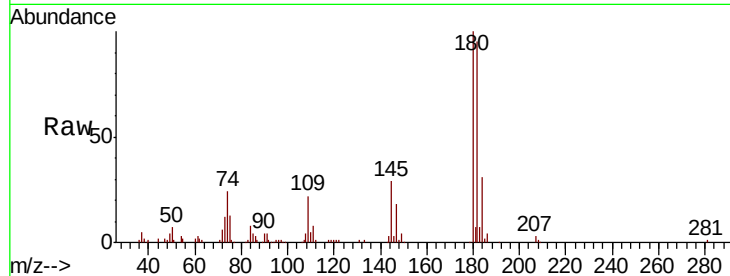
#89
 1,2,4-Trichlorobenzene
 Concen: 16.60 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0828WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	102498		
182	94.7	76.7	115.1	
145	28.4	23.4	35.0	

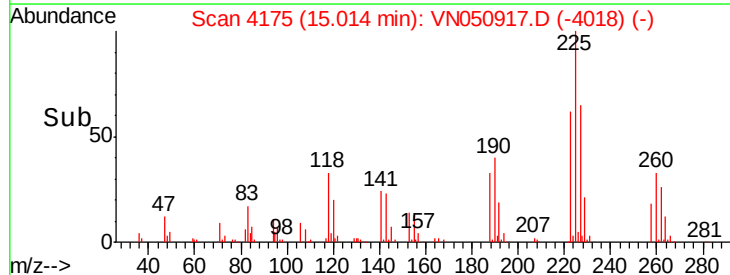
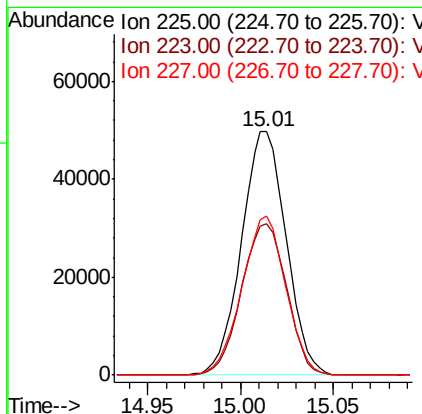
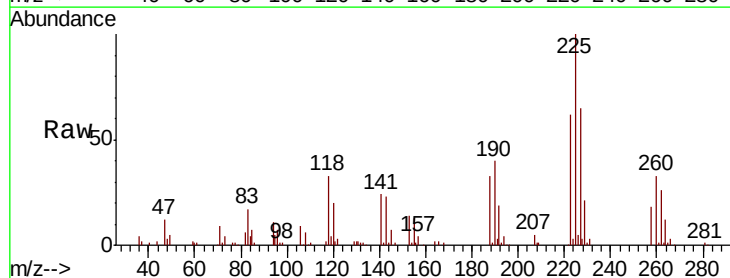
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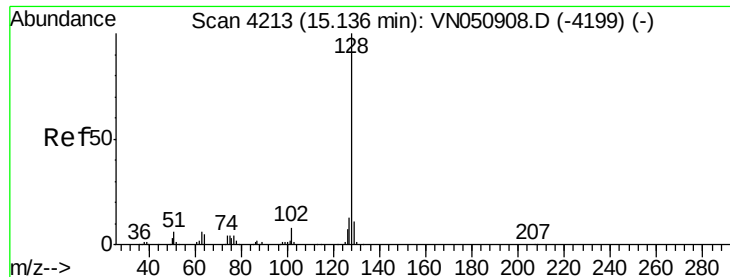
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#90
 Hexachlorobutadiene
 Concen: 19.85 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050917.D
 Acq: 28 Aug 2018 16:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	83292		
223	62.6	0.0	124.4	
227	64.1	0.0	133.0	





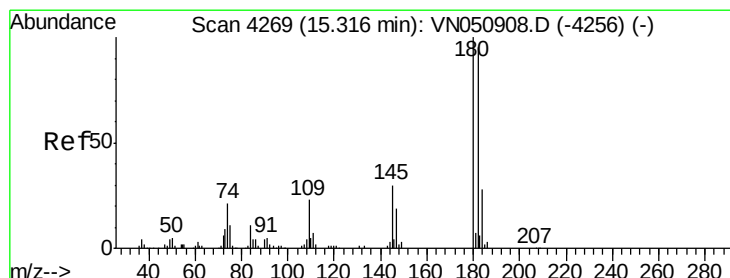
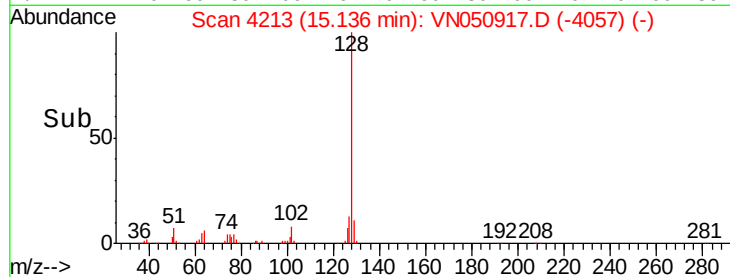
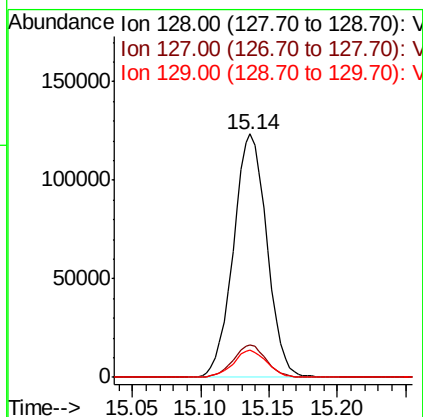
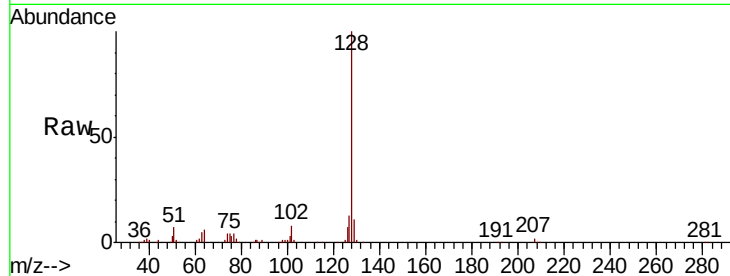
#91
Naphthalene
Concen: 19.48 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Instrument :
MSVOA_N
ClientSampleId :
VN0828WBSD01

Tot Ion:	128	Resp:	210547
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.4
129	11.0	9.0	13.4

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#92
1,2,3-Trichlorobenzene
Concen: 17.88 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050917.D
Acq: 28 Aug 2018 16:34

Tgt Ion:	180	Resp:	110806
Ion Ratio	Lower	Upper	
180	100		
182	97.5	0.0	188.8
145	30.6	0.0	60.8

