

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030519\
 Data File : VN054101.D
 Acq On : 5 Mar 2019 16:08
 Operator : JC/SP
 Sample : VN0305WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0305WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 9:16:27 AM

Quant Time: Mar 06 03:17:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	622710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1050868	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	903189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	394748	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	393571	53.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.84%	
35) Dibromofluoromethane	7.59	113	345452	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
50) Toluene-d8	10.09	98	1268055	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	410755	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	110496	19.281	ug/l	98
3) Chloromethane	2.06	50	160949	20.247	ug/l	99
4) Vinyl Chloride	2.18	62	165699	20.804	ug/l	100
5) Bromomethane	2.57	94	73722	13.976	ug/l	100
6) Chloroethane	2.71	64	97999	19.784	ug/l	100
7) Trichlorofluoromethane	3.02	101	207602	20.403	ug/l	100
8) Diethyl Ether	3.41	74	80066	21.003	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	128226	19.953	ug/l	93
10) Methyl Iodide	3.95	142	103858	12.299	ug/l	98
11) Tert butyl alcohol	4.78	59	51097	110.421	ug/l	99
12) 1,1-Dichloroethene	3.74	96	123971	20.167	ug/l	94
13) Acrolein	3.61	56	25883	54.024	ug/l	94
14) Allyl chloride	4.33	41	223629	20.742	ug/l	96
15) Acrylonitrile	4.99	53	267294	109.596	ug/l	99
16) Acetone	3.81	43	184256	87.452	ug/l	100
17) Carbon Disulfide	4.05	76	359793	18.143	ug/l	97
18) Methyl Acetate	4.32	43	122835	24.066	ug/l	95
19) Methyl tert-butyl Ether	5.04	73	358663	21.750	ug/l	98
20) Methylene Chloride	4.55	84	147656	20.438	ug/l	92
21) trans-1,2-Dichloroethene	5.04	96	134551	20.223	ug/l	93
22) Diisopropyl ether	5.95	45	456745	21.959	ug/l	94
23) Vinyl Acetate	5.90	43	1567943	104.788	ug/l	96
24) 1,1-Dichloroethane	5.85	63	268971	21.087	ug/l	99
25) 2-Butanone	6.83	43	296830	103.563	ug/l	96
26) 2,2-Dichloropropane	6.82	77	171039	18.874	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	156279	21.121	ug/l	96
28) Bromochloromethane	7.19	49	125718	21.533	ug/l	82
29) Tetrahydrofuran	7.21	42	210246	110.153	ug/l	93
30) Chloroform	7.37	83	259161	20.954	ug/l	99
31) Cyclohexane	7.65	56	242616	20.543	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	212132	20.801	ug/l	97
36) 1,1-Dichloropropene	7.79	75	187370	19.173	ug/l	99
37) Ethyl Acetate	6.93	43	133913	19.191	ug/l	98
38) Carbon Tetrachloride	7.77	117	184119	18.115	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	213990	18.167	ug/l	96
40) Benzene	8.04	78	601167	20.024	ug/l	100
41) Methacrylonitrile	7.17	41	63889	14.219	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	190128	20.455	ug/l	97
43) Isopropyl Acetate	8.16	43	234231	19.881	ug/l #	91
44) Trichloroethene	8.83	130	155917	19.590	ug/l	92
45) 1,2-Dichloropropane	9.12	63	163762	20.218	ug/l	99
46) Dibromomethane	9.21	93	92984	19.774	ug/l	94
47) Bromodichloromethane	9.40	83	198547	20.035	ug/l	99
48) Methyl methacrylate	9.20	41	116229	21.447	ug/l	90
49) 1,4-Dioxane	9.20	88	31374	427.432	ug/l #	92
51) 4-Methyl-2-Pentanone	9.99	43	636520	105.134	ug/l	95
52) Toluene	10.16	92	351580	19.888	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	187416	19.437	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	222174	19.545	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	132276	20.036	ug/l	98
56) Ethyl methacrylate	10.43	69	153844	19.032	ug/l	90
57) 1,3-Dichloropropane	10.71	76	227009	20.350	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	345277	94.623	ug/l	96
59) 2-Hexanone	10.75	43	396596	100.719	ug/l	94
60) Dibromochloromethane	10.90	129	142011	19.355	ug/l	100
61) 1,2-Dibromoethane	11.00	107	126021	19.788	ug/l	97
64) Tetrachloroethene	10.63	164	154841	20.246	ug/l	96
65) Chlorobenzene	11.43	112	379304	19.899	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	136666	19.894	ug/l	99
67) Ethyl Benzene	11.51	91	633604	19.828	ug/l	99
68) m/p-Xylenes	11.62	106	484512	40.173	ug/l	97
69) o-Xylene	11.95	106	237188	20.015	ug/l	98
70) Styrene	11.96	104	376250	20.642	ug/l	99
71) Bromoform	12.13	173	93006	19.460	ug/l #	99
73) Isopropylbenzene	12.25	105	616731	20.070	ug/l	99
74) N-amyl acetate	12.07	43	171741	21.324	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	155559	20.244	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	129819m	20.501	ug/l	
77) Bromobenzene	12.53	156	154806	19.843	ug/l	90
78) n-propylbenzene	12.59	91	702374	20.099	ug/l	98
79) 2-Chlorotoluene	12.67	91	424917	20.241	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	514478	20.451	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	36668	18.302	ug/l	88
82) 4-Chlorotoluene	12.77	91	420591	20.271	ug/l	97
83) tert-Butylbenzene	12.99	119	457432	20.559	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	522272	20.796	ug/l	99
85) sec-Butylbenzene	13.17	105	608956	20.039	ug/l	98
86) p-Isopropyltoluene	13.29	119	517266	20.135	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	267847	19.846	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	258186	19.718	ug/l	98
89) n-Butylbenzene	13.62	91	414250	19.134	ug/l	98
90) Hexachloroethane	13.87	117	91114	18.303	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	265990	20.360	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22016	20.274	ug/l	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	117048	17.637	ug/l	98
94) Hexachlorobutadiene	15.01	225	84909	17.992	ug/l	98
95) Naphthalene	15.13	128	234002	17.222	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	116035	17.711	ug/l	96

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

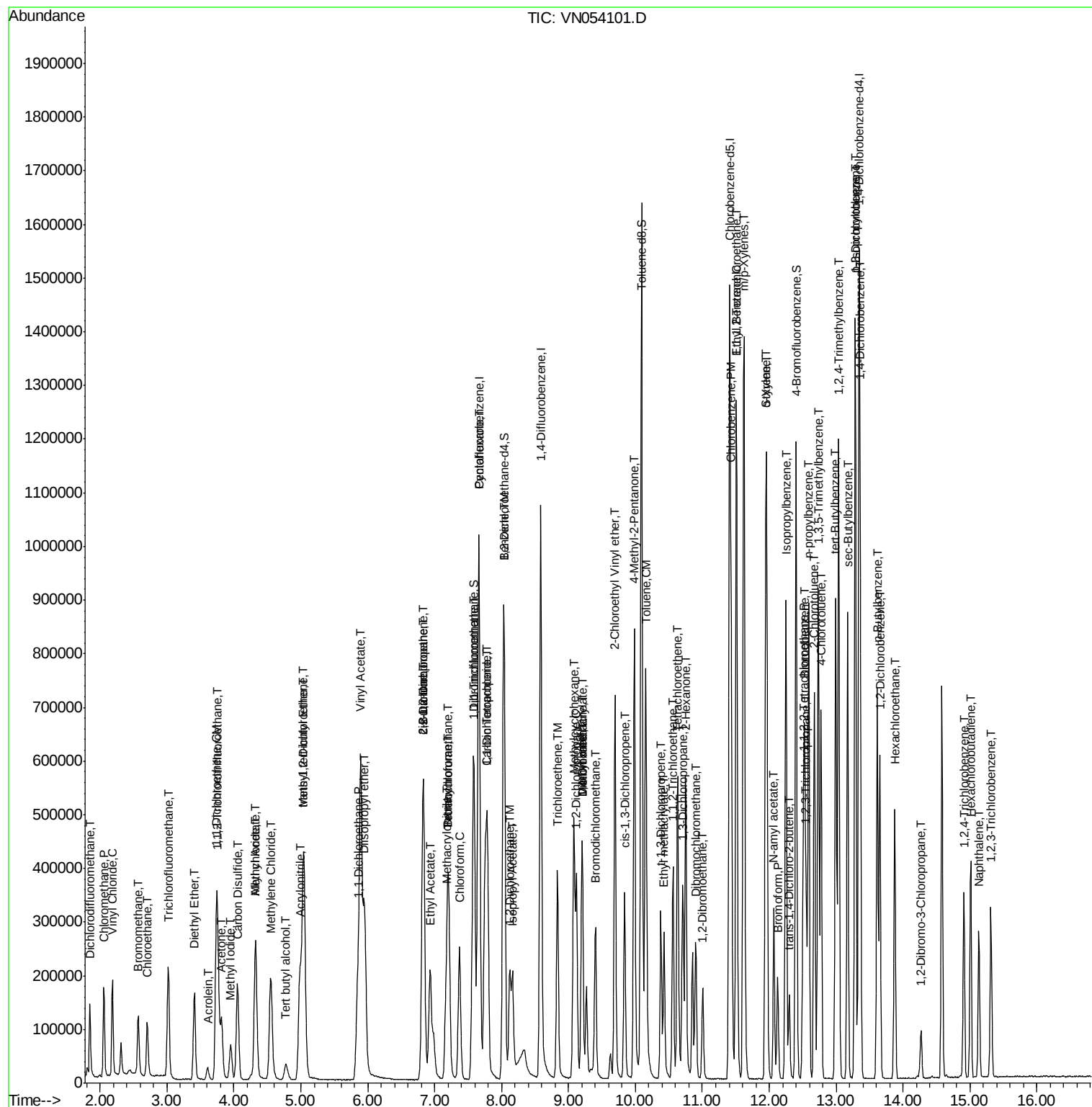
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Data File : VN054101.D
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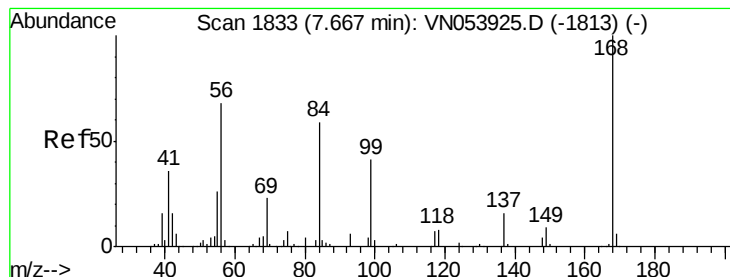
Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

VN0305WBSD01

Tot Ion:168 Resp: 622710

Ion Ratio Lower Upper

168 100

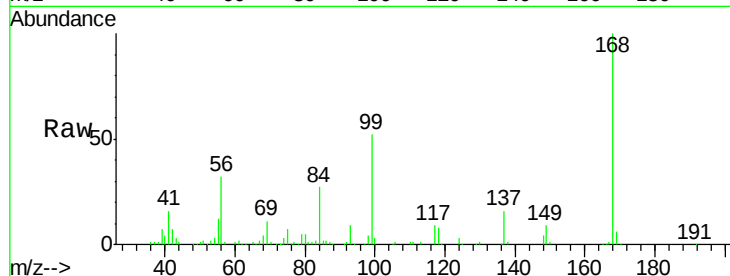
99 49.9 36.9 55.3

Manual Integrations

APPROVED

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3/6/2019 9:16:27 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC

7.66

250000

200000

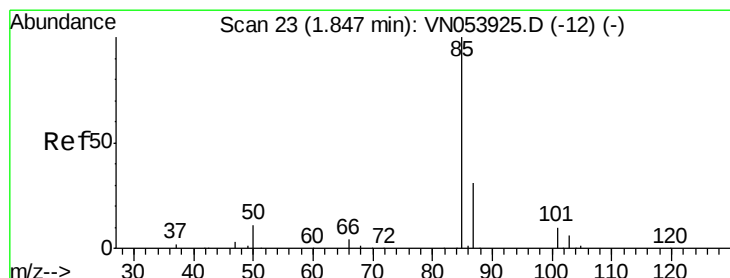
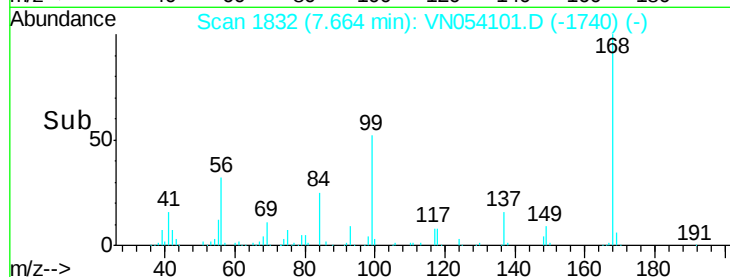
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.281 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN054101.D

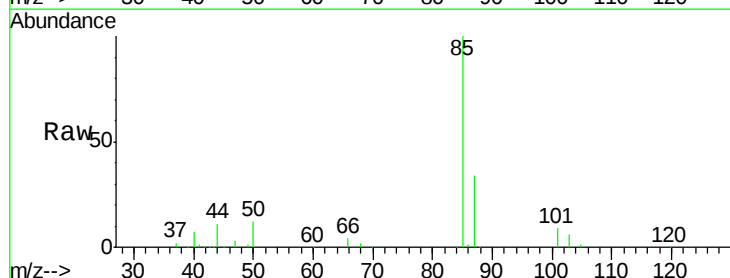
Acq: 5 Mar 2019 16:08

Tgt Ion: 85 Resp: 110496

Ion Ratio Lower Upper

85 100

87 33.8 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC

1.85

80000

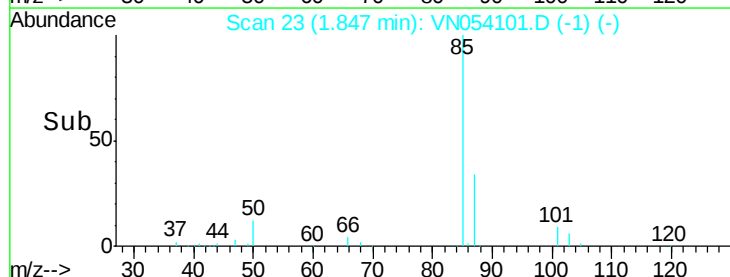
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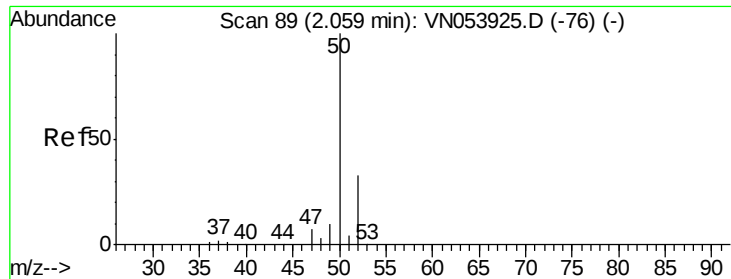
40000

20000

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Time-->





#3

Chloromethane

Concen: 20.247 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

VN0305WBSD01

Tot Ion: 50 Resp: 160949

Ion Ratio Lower Upper

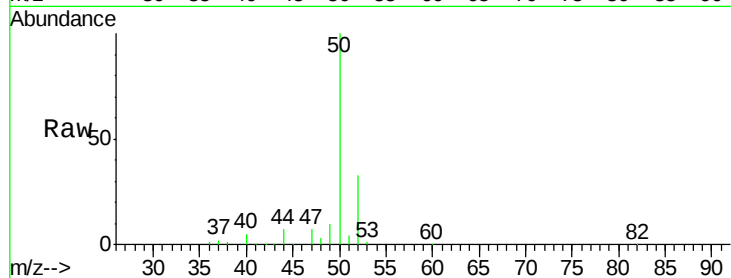
50 100

52 33.0 26.0 39.0

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

120000

100000

80000

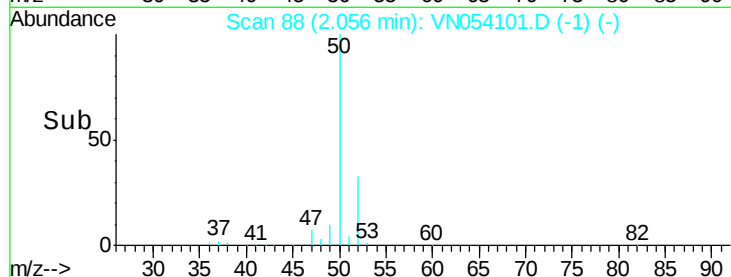
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40000

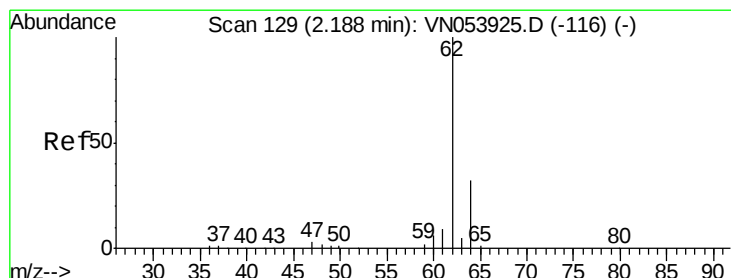
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0

Time-->



Time-->



#4

Vinyl Chloride

Concen: 20.804 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN054101.D

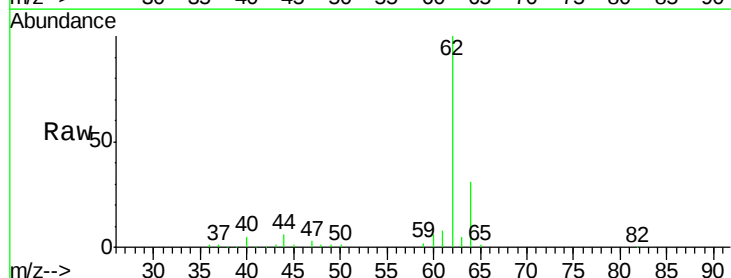
Acq: 5 Mar 2019 16:08

Tgt Ion: 62 Resp: 165699

Ion Ratio Lower Upper

62 100

64 31.3 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

120000

100000

80000

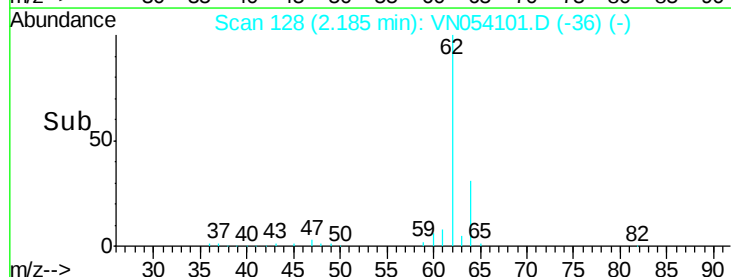
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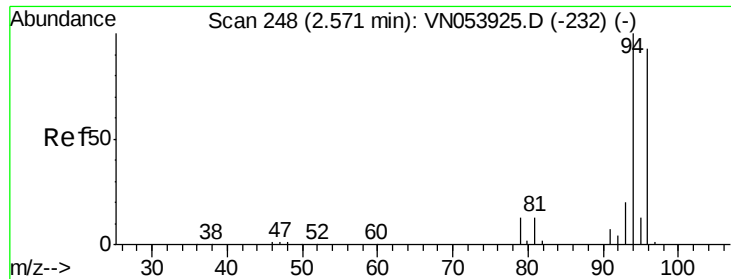
20000

0

Time-->



Time-->



#5

Bromomethane

Concen: 13.976 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

VN0305WBSD01

Tot Ion: 94 Resp: 73722

Ion Ratio Lower Upper

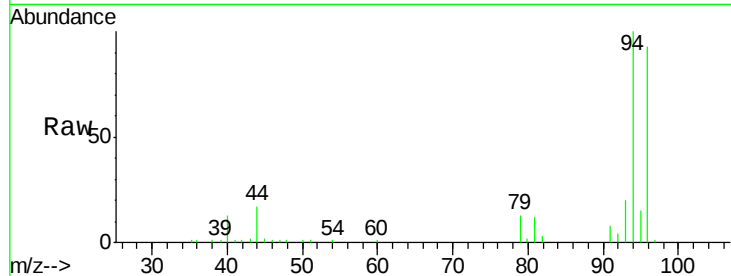
94 100

96 93.3 74.9 112.3

Manual Integrations
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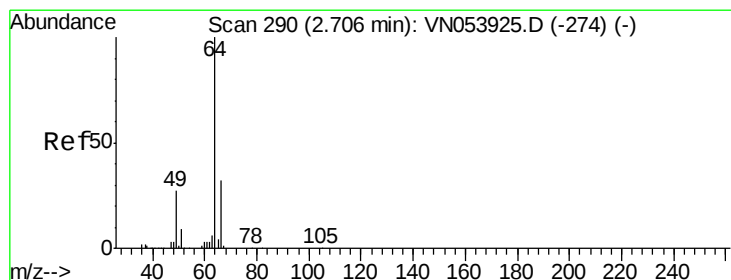
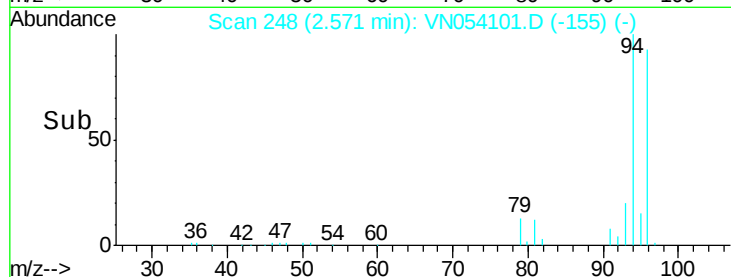
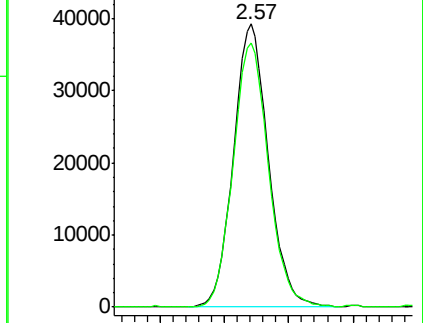
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3/6/2019 9:16:27 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.784 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN054101.D

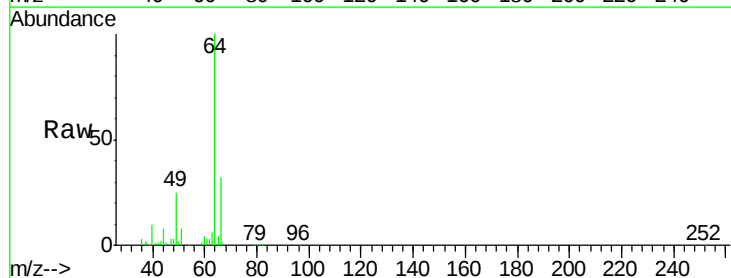
Acq: 5 Mar 2019 16:08

Tgt Ion: 64 Resp: 97999

Ion Ratio Lower Upper

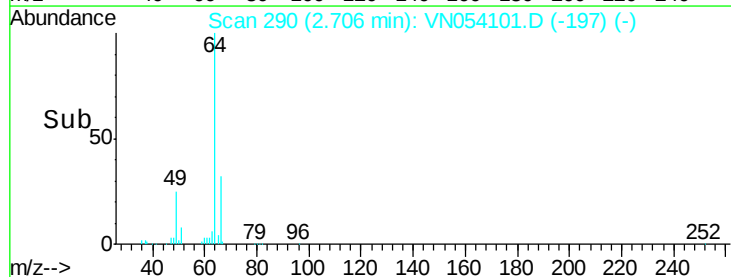
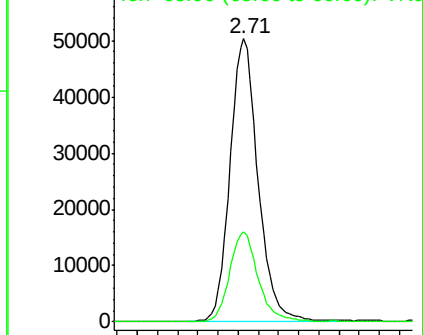
64 100

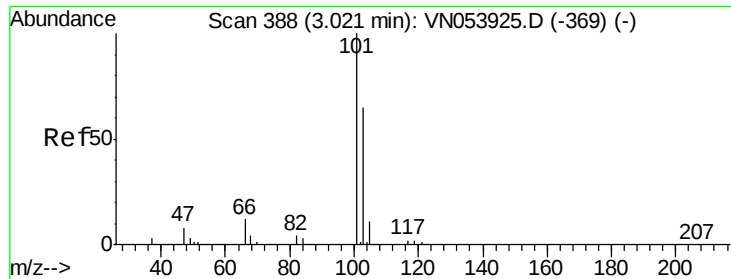
66 31.9 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

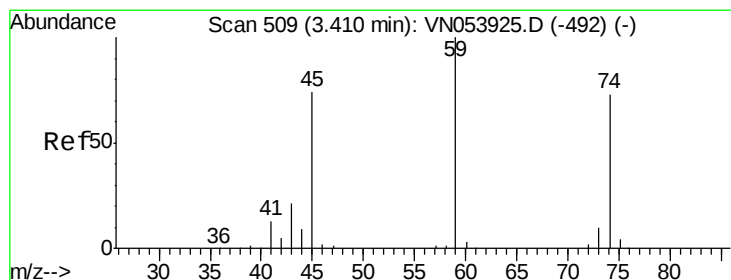
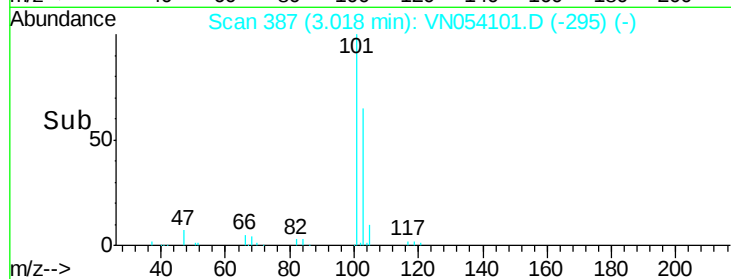
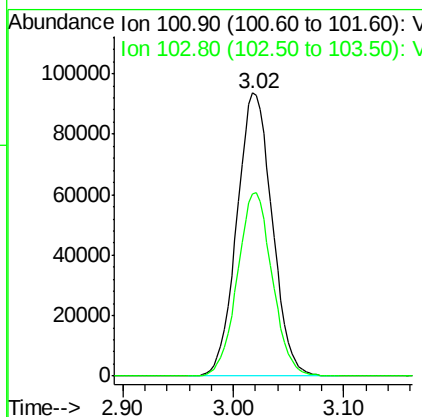
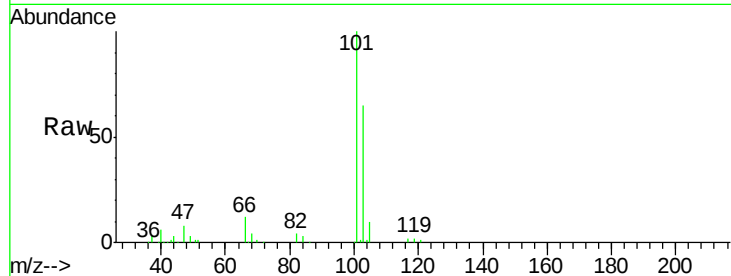
Trichlorofluoromethane
 Concen: 20.403 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. -0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
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 ClientSampleId :
 VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.9	77.9

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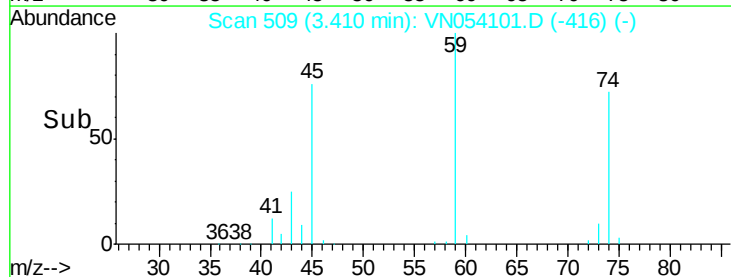
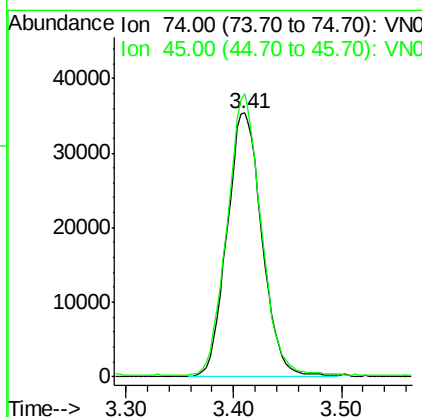
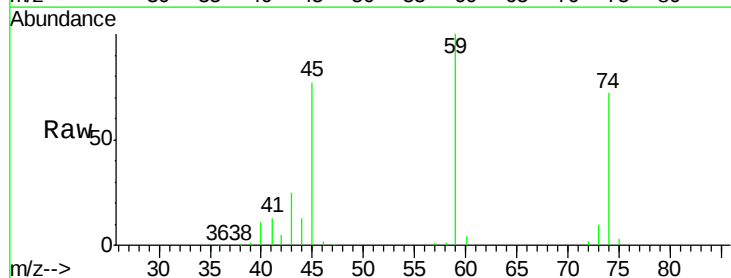
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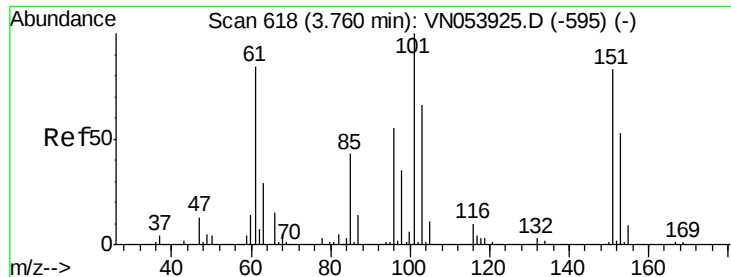


#8

Diethyl Ether
 Concen: 21.003 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.6	46.9	140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.953 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

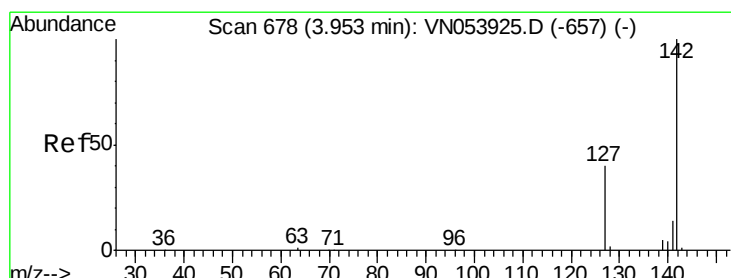
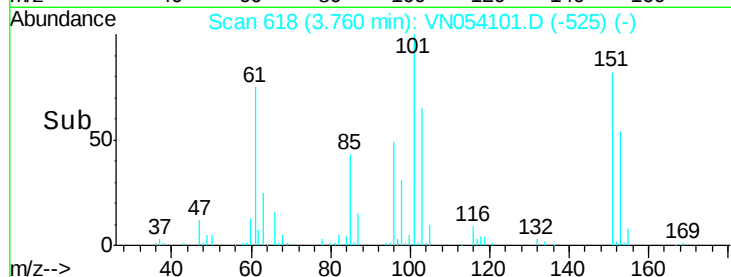
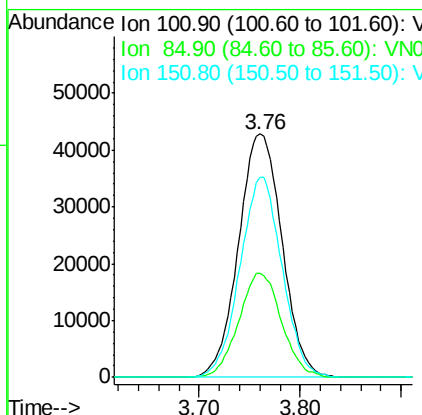
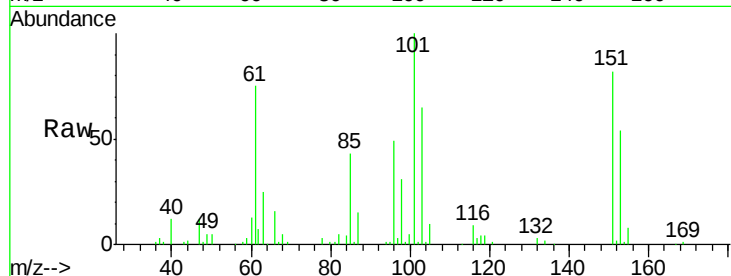
ClientSampleId :

VN0305WBSD01

Tot Ion:	101	Resp:	128226
Ion Ratio	Lower	Upper	
101	100		
85	42.1	32.5	48.7
151	79.7	70.2	105.2

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#10

Methyl Iodide

Concen: 12.299 ug/l

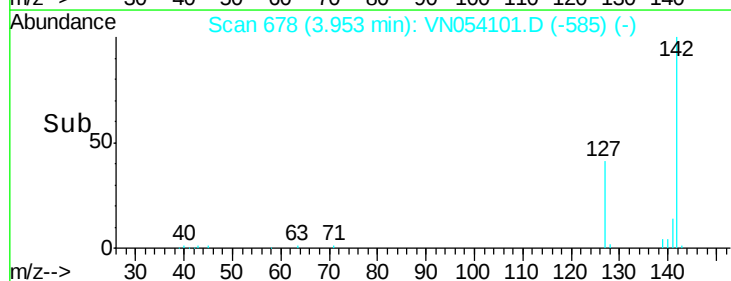
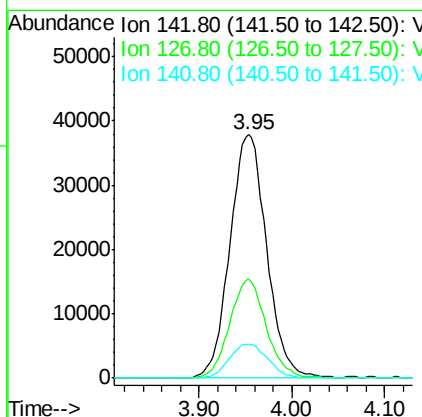
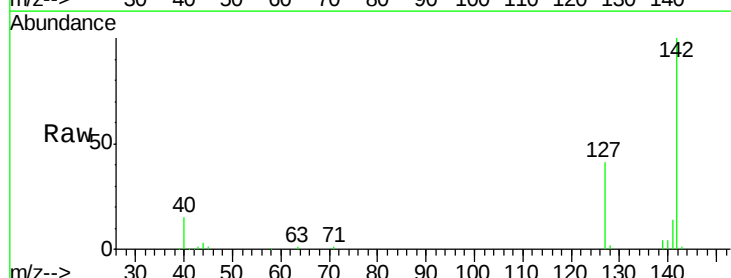
RT: 3.95 min Scan# 678

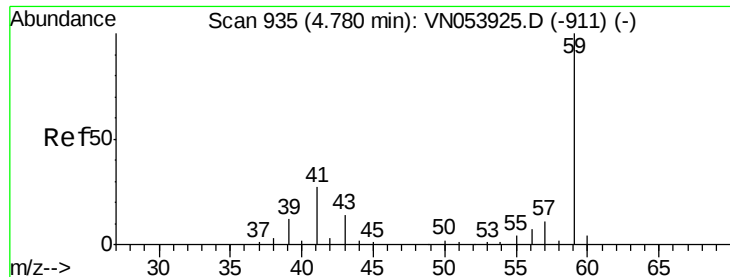
Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion:	142	Resp:	103858
Ion Ratio	Lower	Upper	
142	100		
127	40.3	31.0	46.4
141	14.5	11.3	16.9





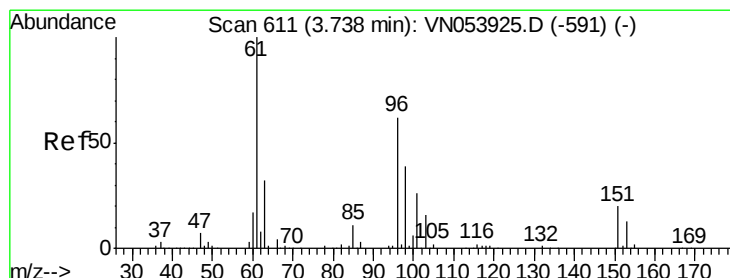
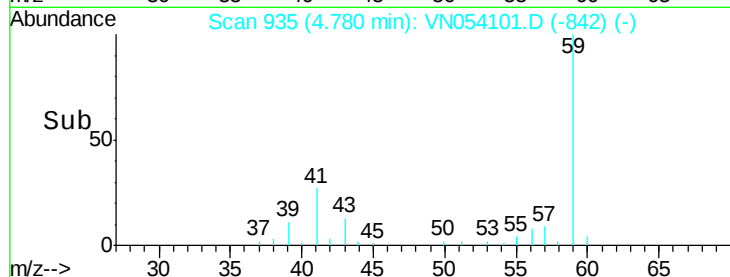
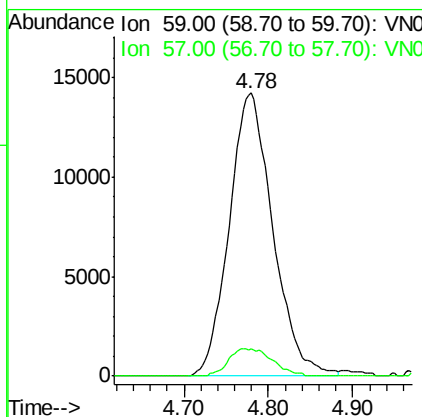
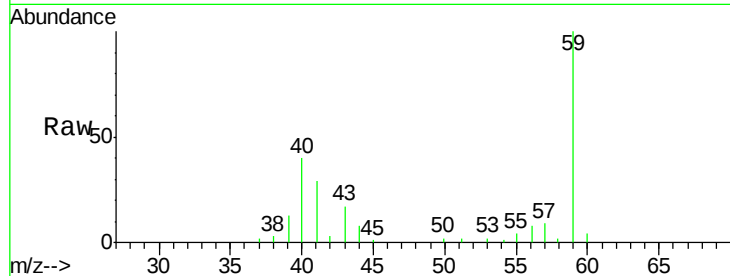
#11
Tert butyl alcohol
Concen: 110.421 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion: 59 Resp: 51097
Ion Ratio Lower Upper
59 100
57 9.8 8.1 12.1

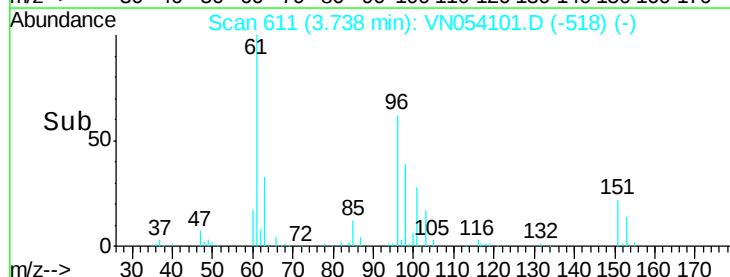
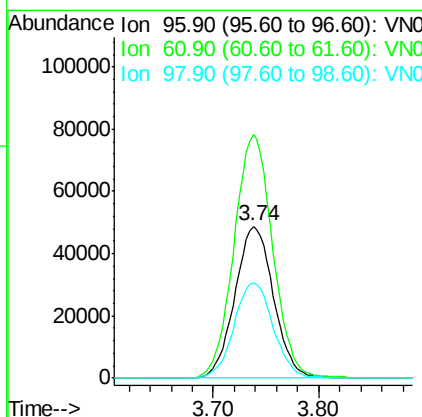
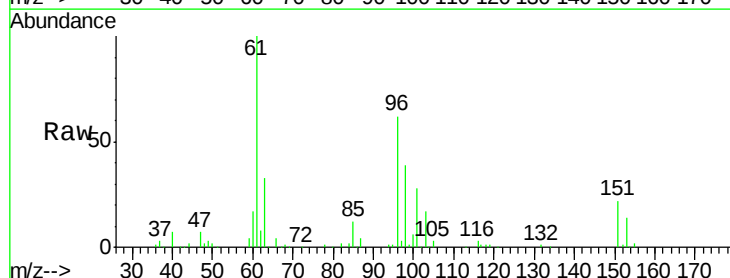
Manual Integrations
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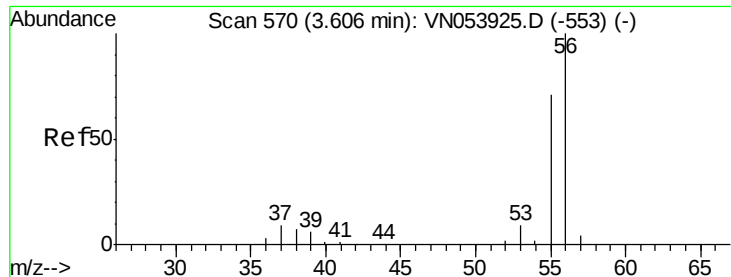
MMDadoda
3/6/2019 9:16:27 AM



#12
1,1-Dichloroethene
Concen: 20.167 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion: 96 Resp: 123971
Ion Ratio Lower Upper
96 100
61 160.5 121.0 181.4
98 62.4 52.2 78.2





#13

Acrolein

Concen: 54.024 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

VN0305WBSD01

Tot Ion: 56 Resp: 25883

Ion Ratio Lower Upper

56 100

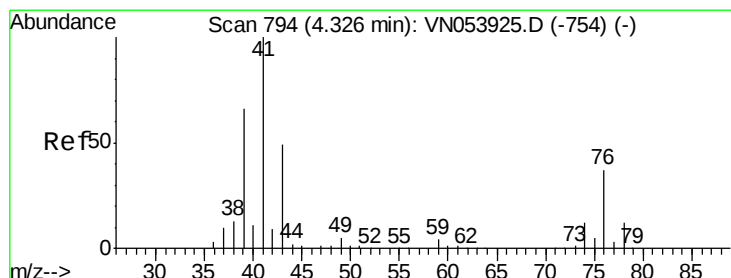
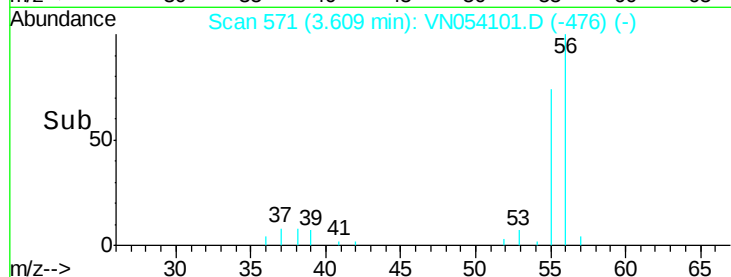
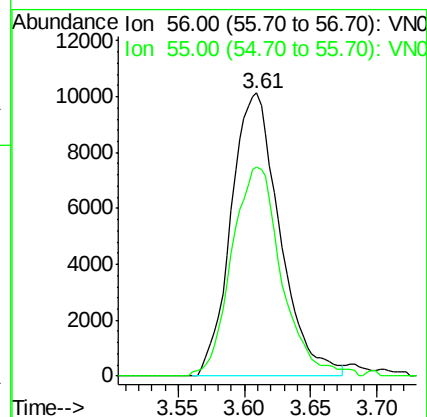
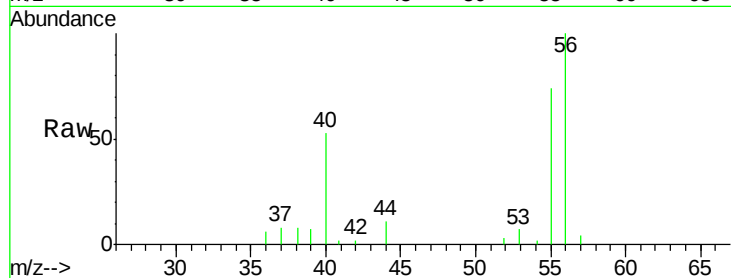
55 75.0 56.3 84.5

Manual Integrations

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#14

Allyl chloride

Concen: 20.742 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

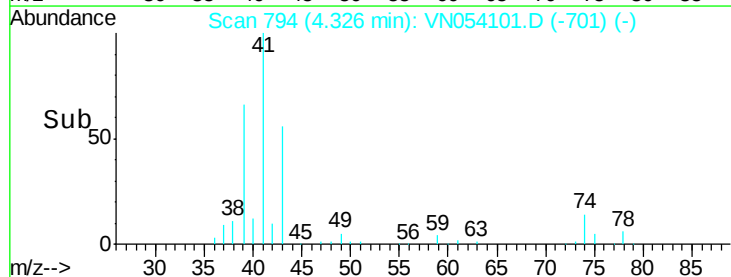
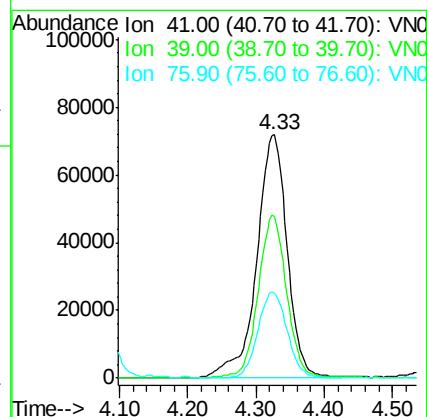
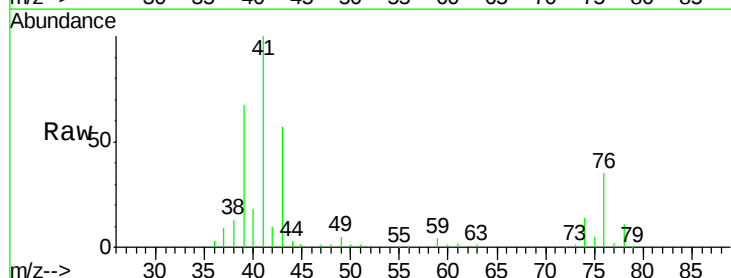
Tgt Ion: 41 Resp: 223629

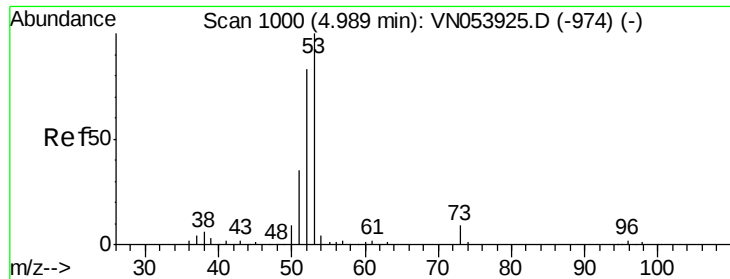
Ion Ratio Lower Upper

41 100

39 62.4 48.8 73.2

76 33.8 30.9 46.3





#15

Acrylonitrile

Concen: 109.596 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

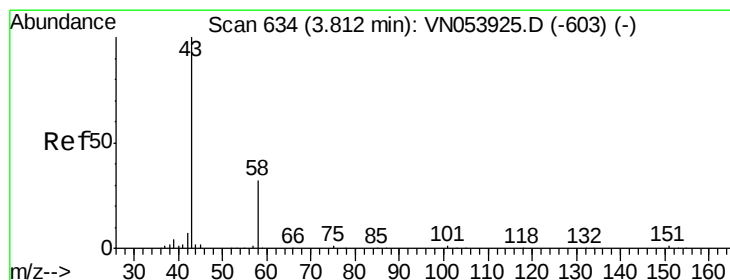
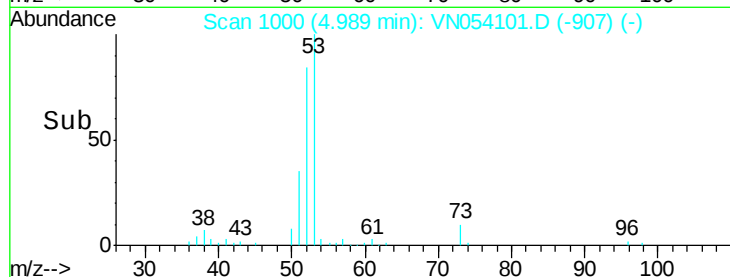
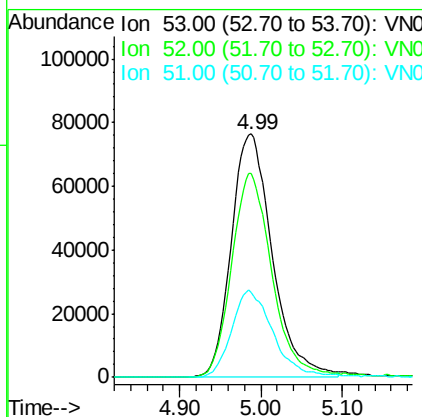
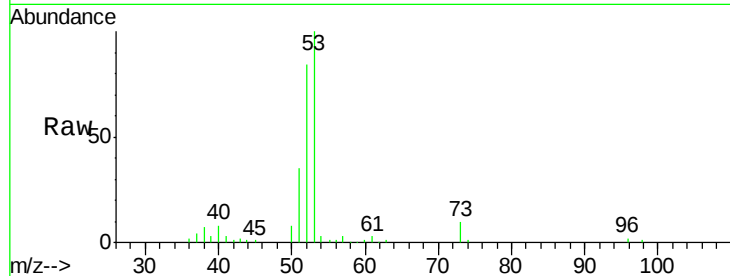
ClientSampleId :

VN0305WBSD01

Tot Ion:	53	Resp:	267294
Ion	Ratio	Lower	Upper
53	100		
52	82.0	65.1	97.7
51	36.2	28.2	42.4

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#16

Acetone

Concen: 87.452 ug/l

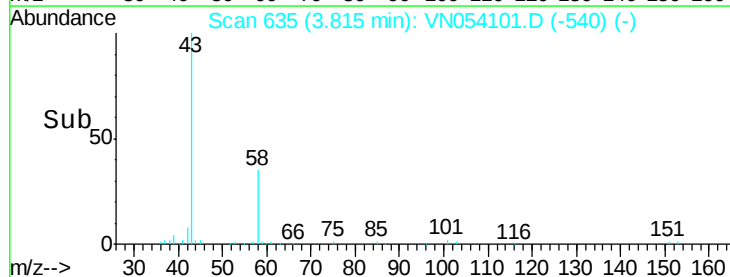
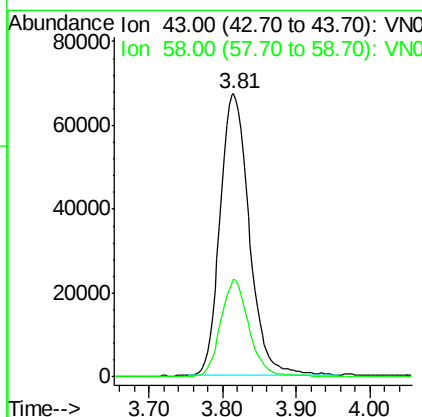
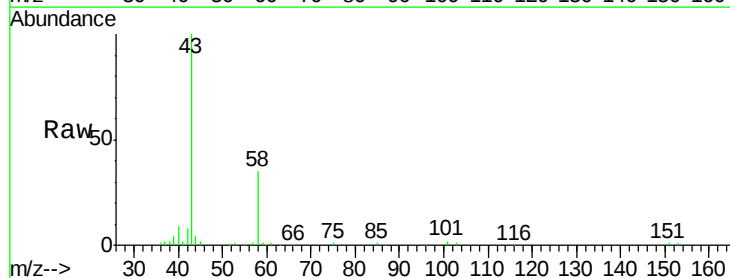
RT: 3.81 min Scan# 635

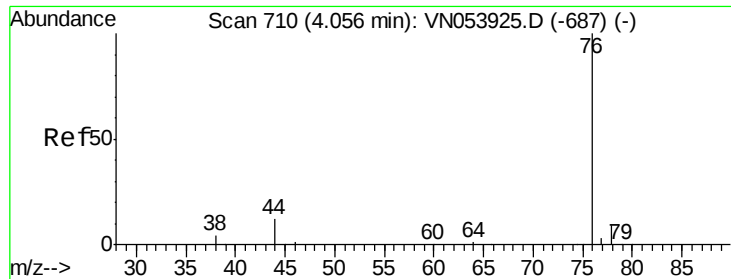
Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion:	43	Resp:	184256
Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.6	41.4





#17

Carbon Disulfide

Concen: 18.143 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

VN0305WBSD01

Tot Ion: 76 Resp: 359793

Ion Ratio Lower Upper

76 100

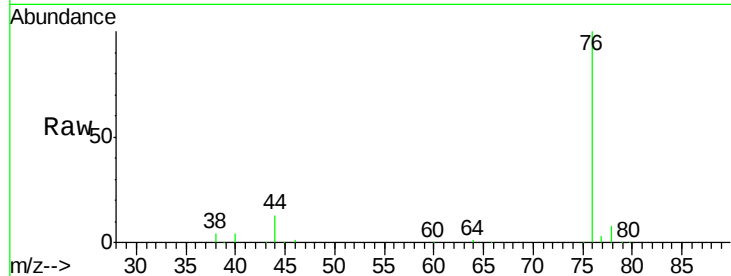
78 8.3 7.5 11.3

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

150000

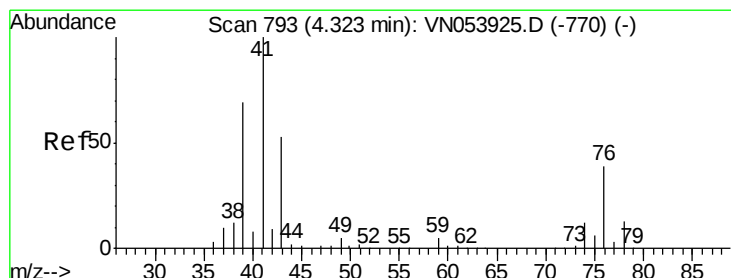
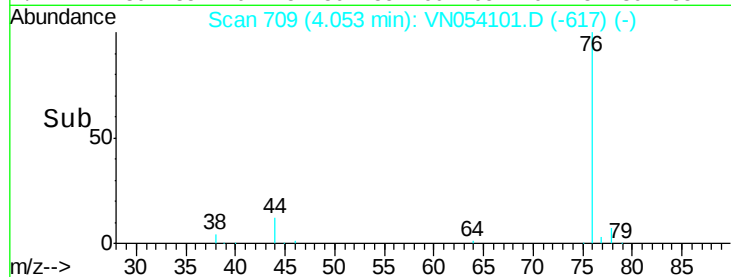
100000

50000

0

4.00 4.10

Time-->



#18

Methyl Acetate

Concen: 24.066 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054101.D

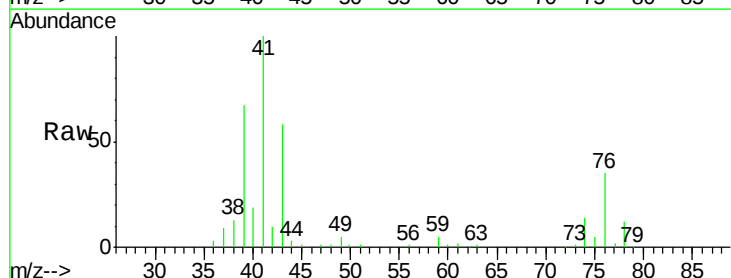
Acq: 5 Mar 2019 16:08

Tgt Ion: 43 Resp: 122835

Ion Ratio Lower Upper

43 100

74 23.3 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

40000

30000

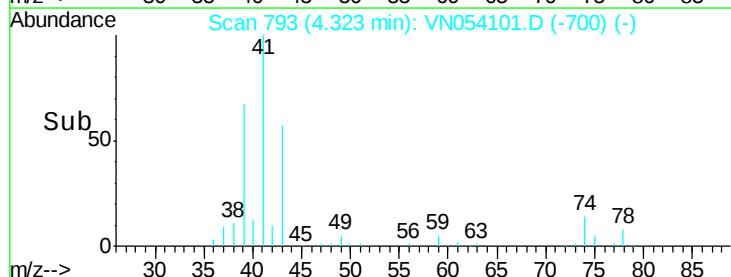
20000

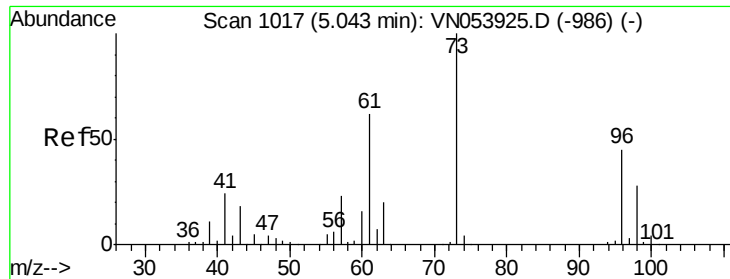
10000

0

4.20 4.30 4.40

Time-->





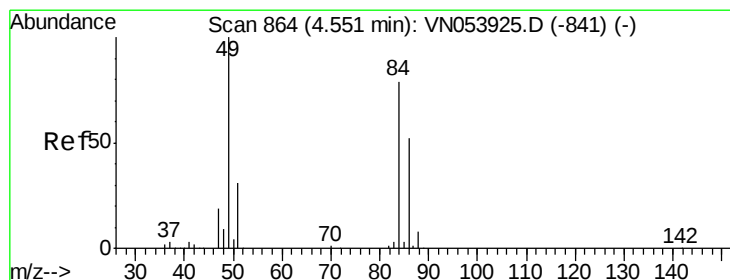
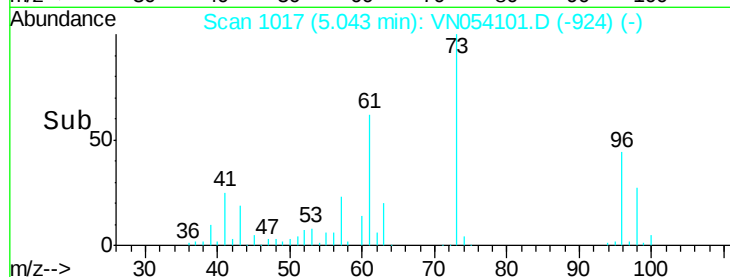
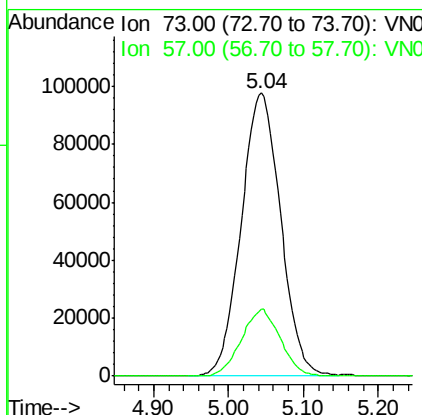
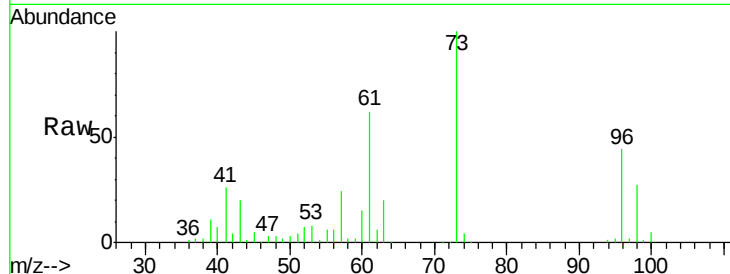
#19
Methvl tert-butvl Ether
Concen: 21.750 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion: 73 Resp: 358663
Ion Ratio Lower Upper
73 100
57 23.6 18.0 27.0

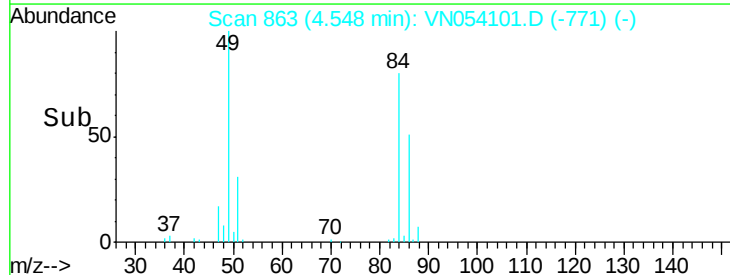
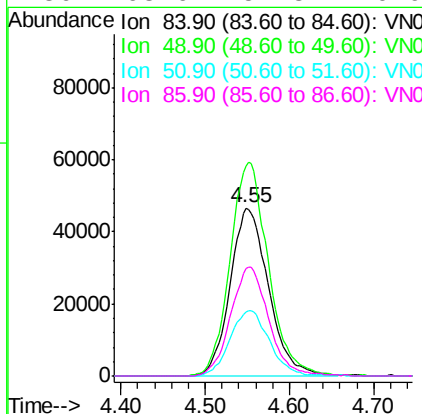
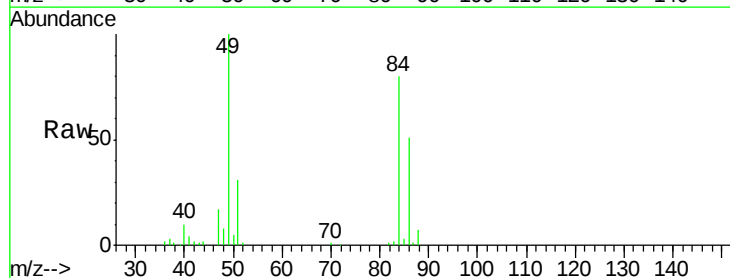
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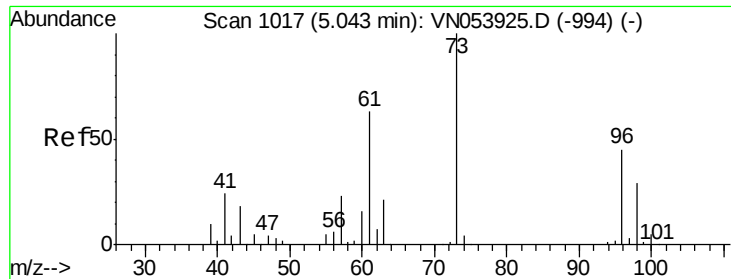
MMDadoda
3/6/2019 9:16:27 AM



#20
Methylene Chloride
Concen: 20.438 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion: 84 Resp: 147656
Ion Ratio Lower Upper
84 100
49 125.2 89.7 134.5
51 38.5 27.8 41.8
86 63.6 51.3 76.9





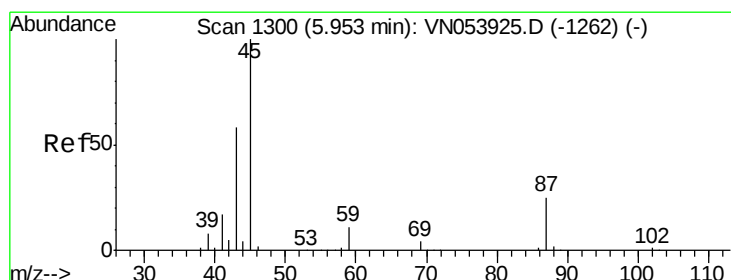
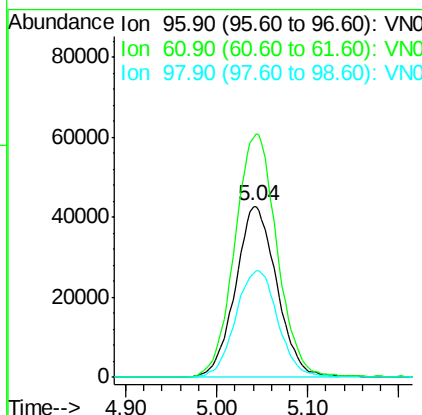
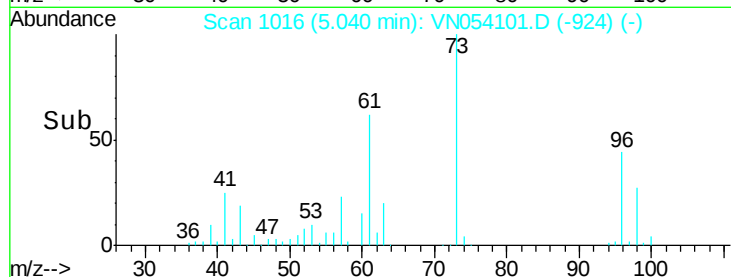
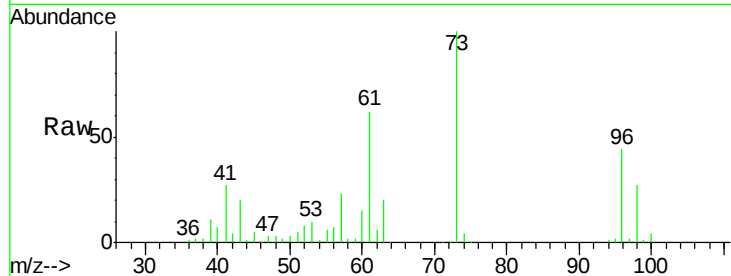
#21
trans-1,2-Dichloroethene
Concen: 20.223 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.5	104.5	156.7
98	60.9	50.6	76.0

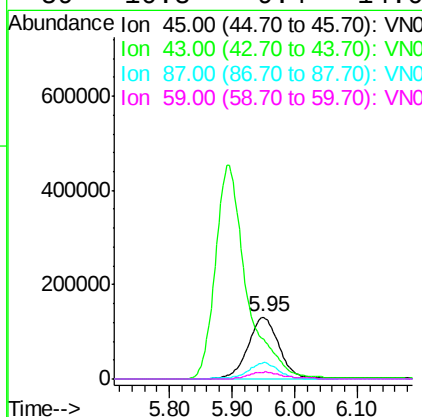
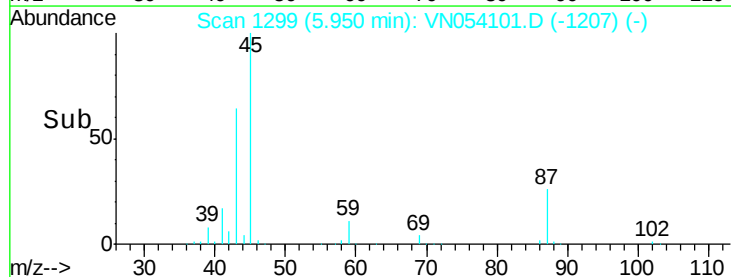
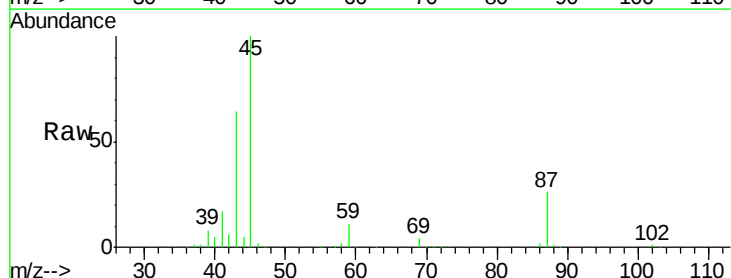
Manual Integrations
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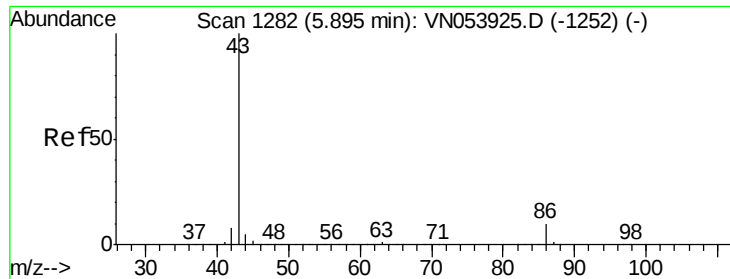
MMDadoda
3/6/2019 9:16:27 AM



#22
Diisopropyl ether
Concen: 21.959 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.5	46.2	69.4
87	26.0	23.4	35.0
59	10.8	9.4	14.0





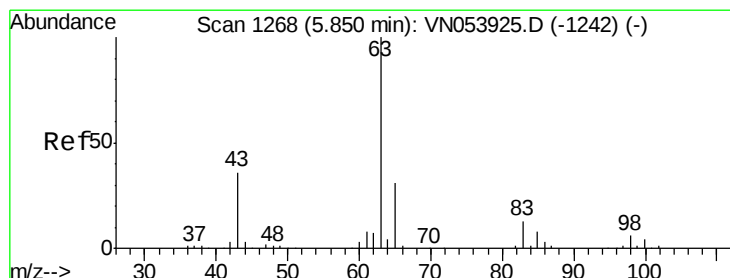
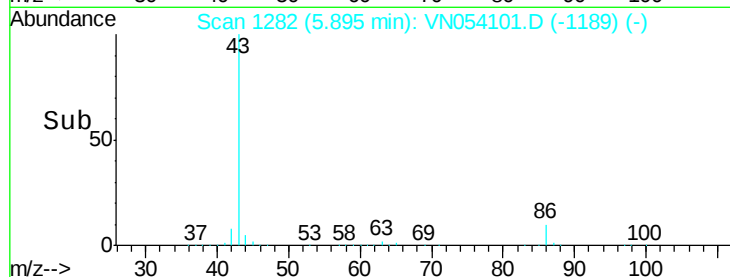
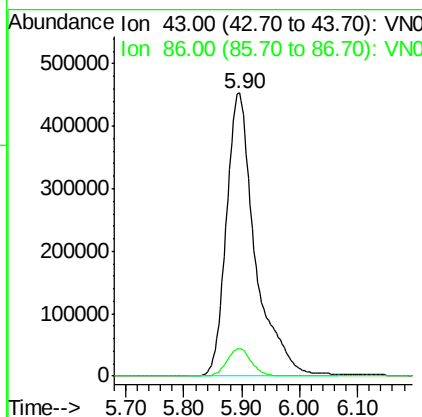
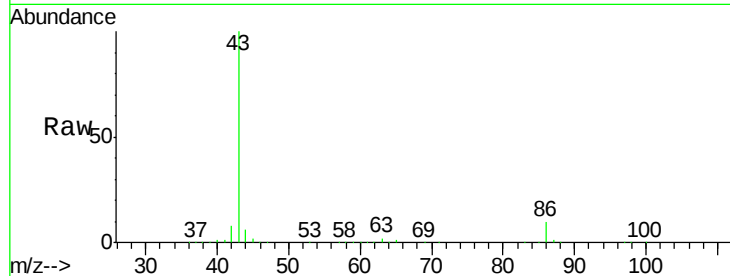
#23
 Vinyl Acetate
 Concen: 104.788 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0305WBSD01

Tot Ion: 43 Resp: 1567943
 Ion Ratio Lower Upper
 43 100
 86 9.7 9.1 13.7

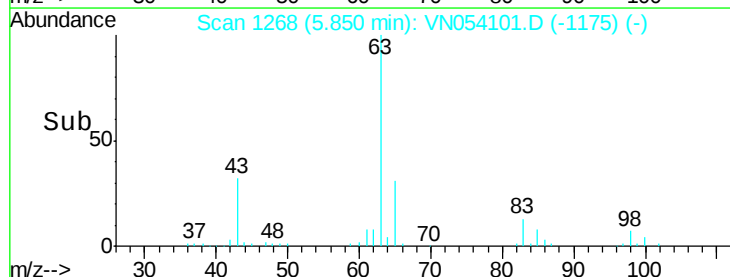
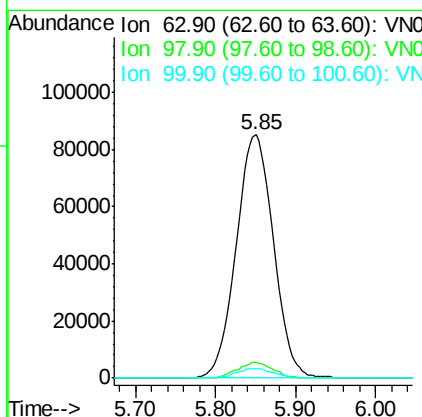
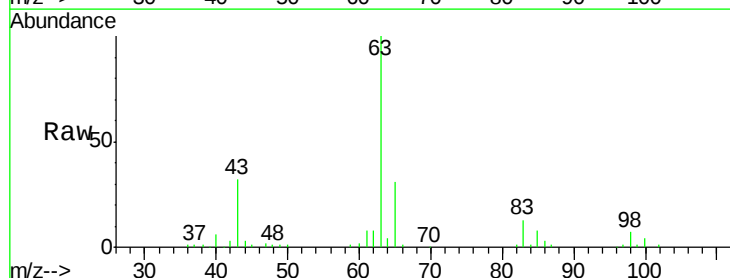
Manual Integrations
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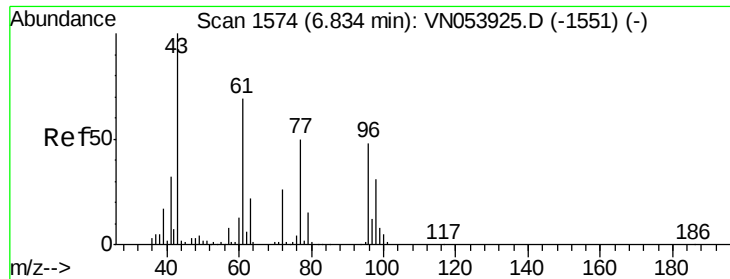
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 3/6/2019 9:16:27 AM



#24
 1,1-Dichloroethane
 Concen: 21.087 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion: 63 Resp: 268971
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.4 10.2
 100 4.0 2.2 6.6





#25

2-Butanone

Concen: 103.563 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

VN0305WBSD01

Tot Ion: 43 Resp: 296830

Ion Ratio Lower Upper

43 100

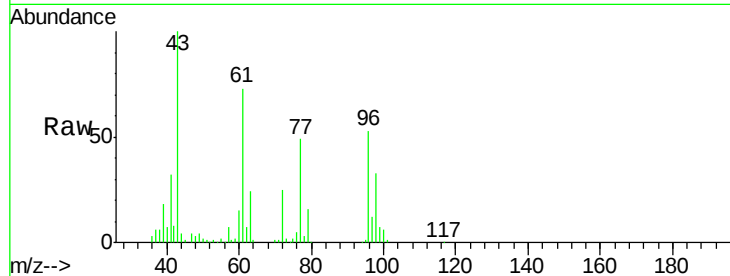
72 25.3 22.1 33.1

Manual Integrations

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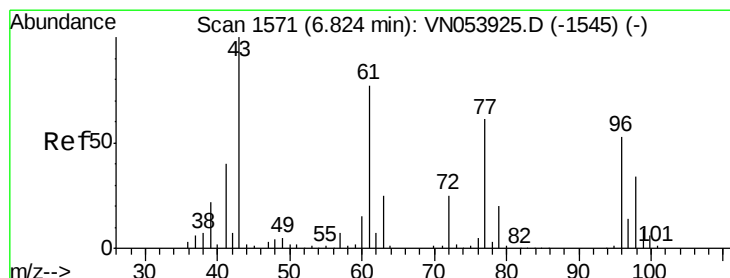
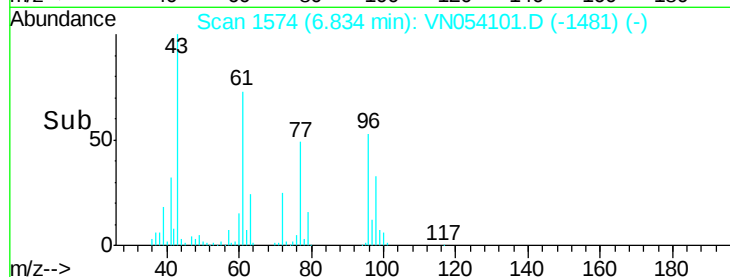
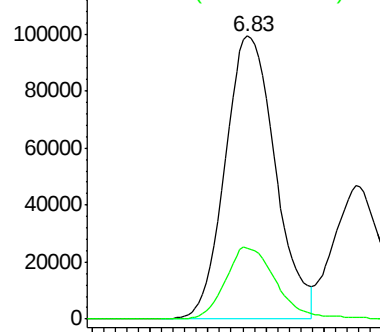
MMDadoda

3/6/2019 9:16:27 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 18.874 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054101.D

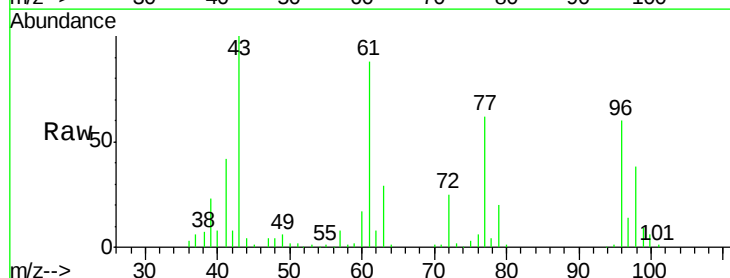
Acq: 5 Mar 2019 16:08

Tgt Ion: 77 Resp: 171039

Ion Ratio Lower Upper

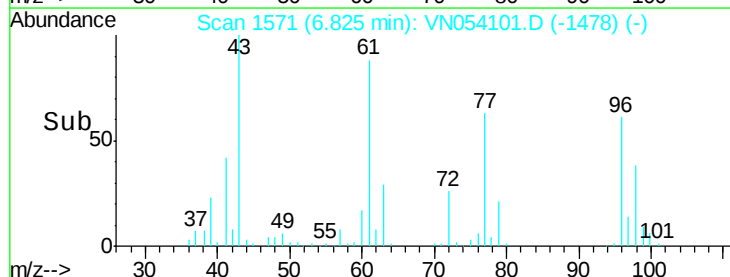
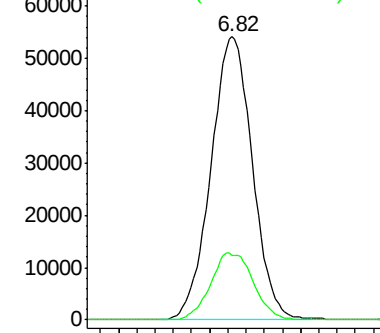
77 100

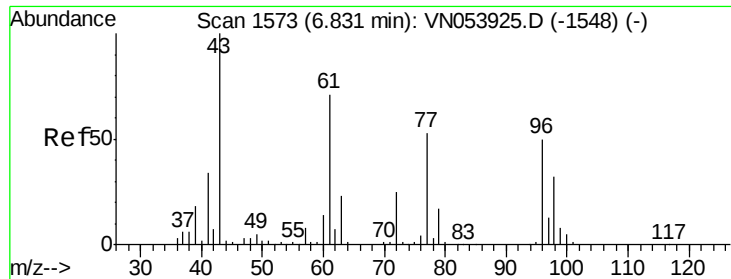
97 24.3 12.3 36.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 21.121 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

VN0305WBSD01

Tot Ion: 96 Resp: 156279

Ion Ratio Lower Upper

96 100

61 144.7 0.0 275.6

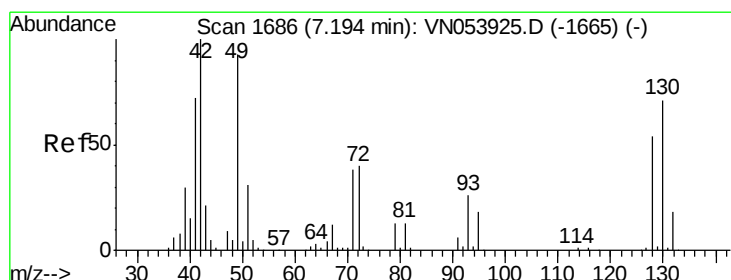
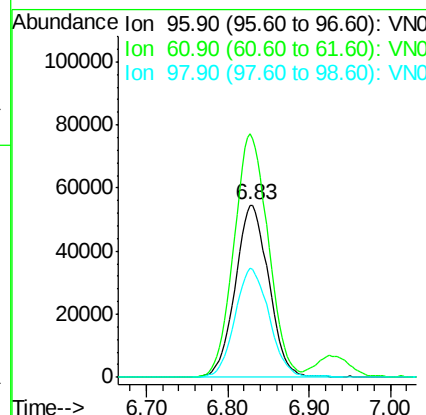
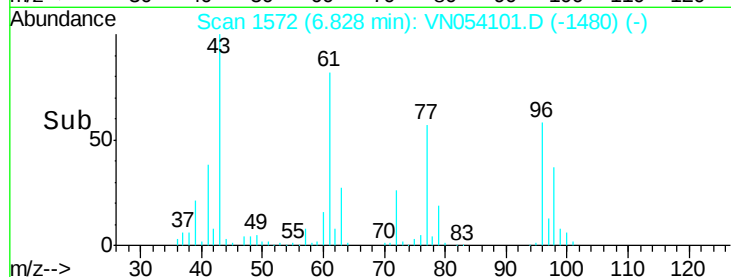
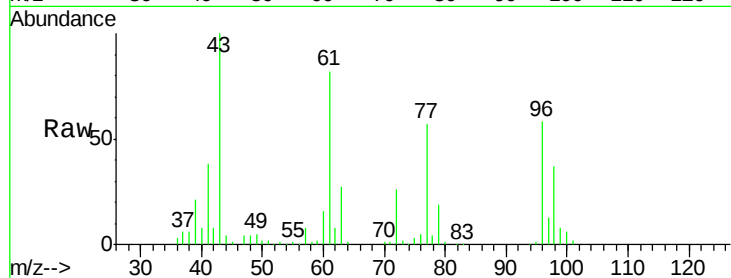
98 64.5 0.0 130.0

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#28

Bromochloromethane

Concen: 21.533 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

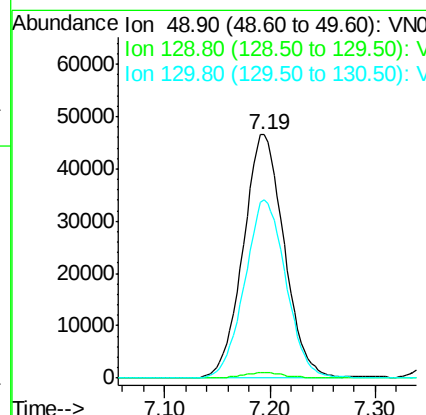
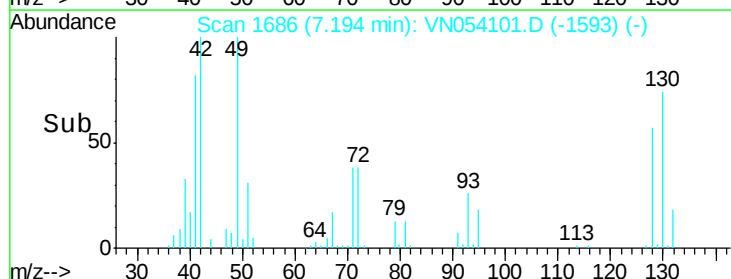
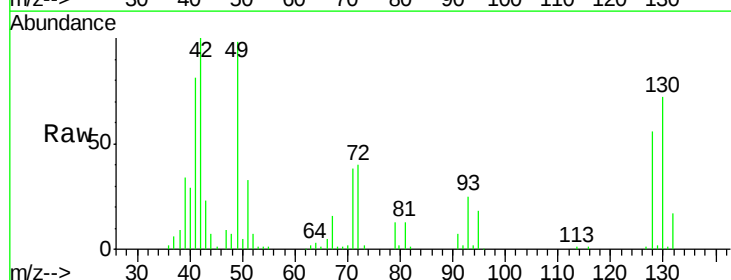
Tgt Ion: 49 Resp: 125718

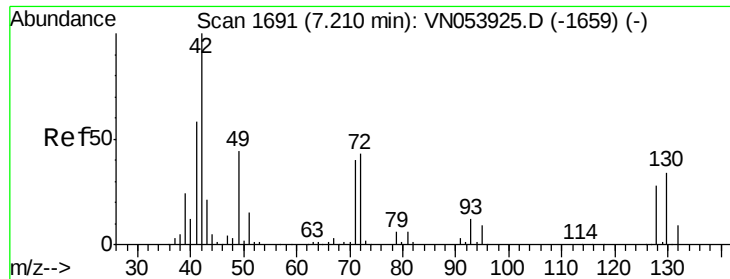
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.6

130 73.8 72.9 109.3





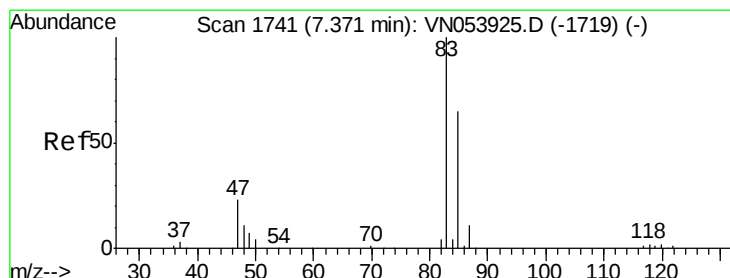
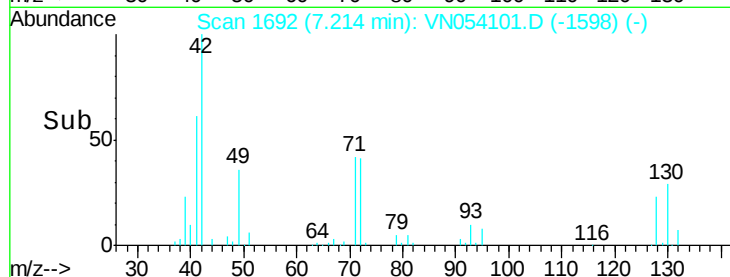
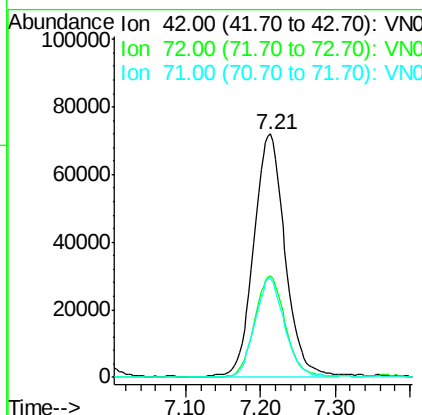
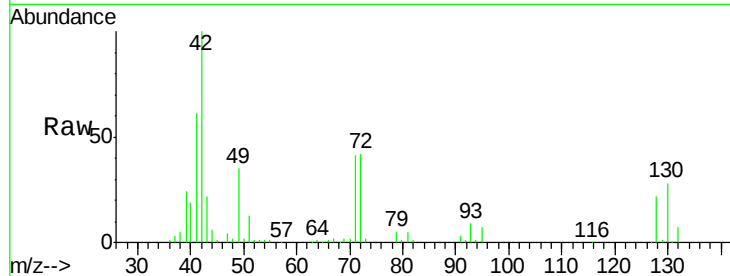
#29
Tetrahydrofuran
Concen: 110.153 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	36.9	55.3
71	38.9	34.6	52.0

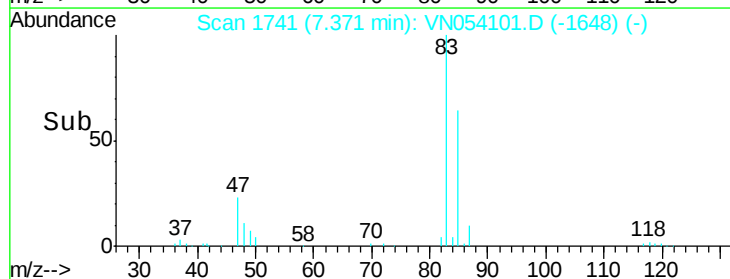
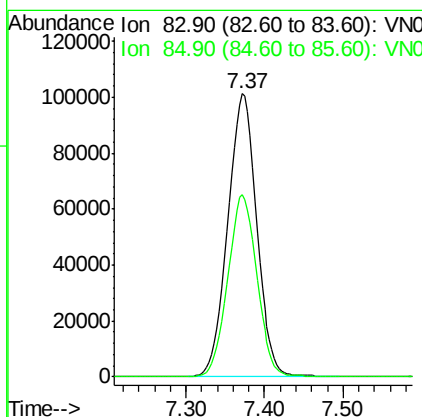
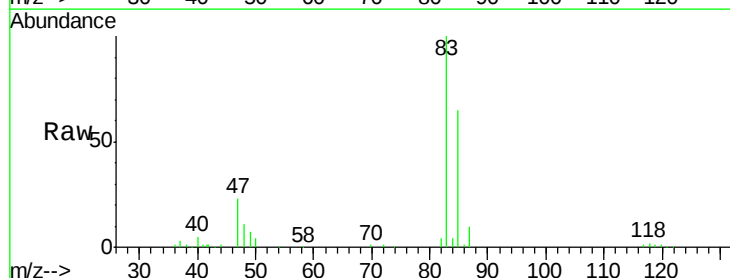
Manual Integrations
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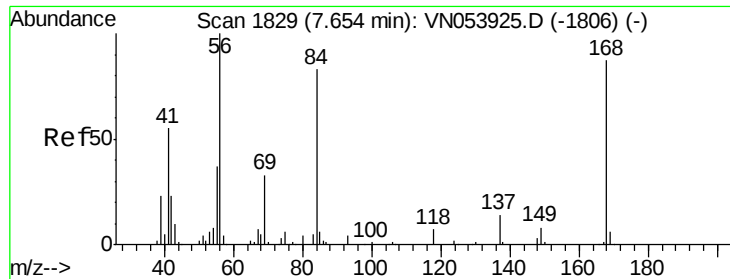
MMDadoda
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#30
Chloroform
Concen: 20.954 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.6	78.8





#31

Cyclohexane

Concen: 20.543 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

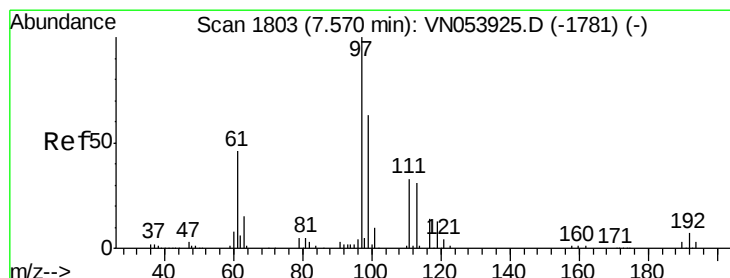
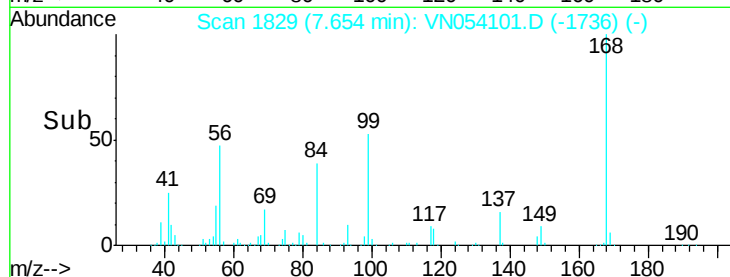
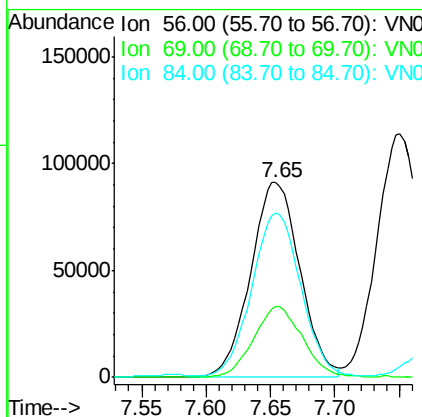
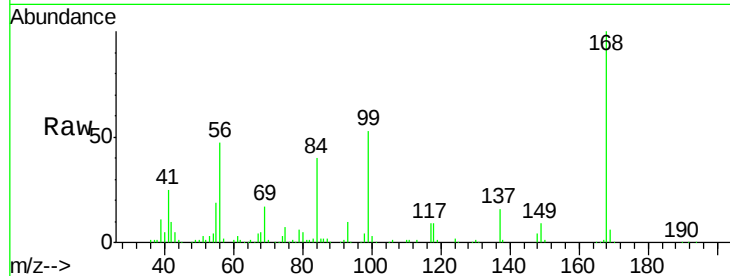
ClientSampled :

VN0305WBSD01

Tot Ion:	56	Resp:	242616
Ion	Ratio	Lower	Upper
56	100		
69	36.5	26.0	39.0
84	83.6	69.1	103.7

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#32

1,1,1-Trichloroethane

Concen: 20.801 ug/l

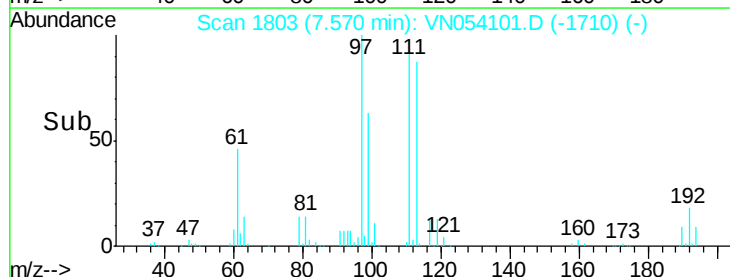
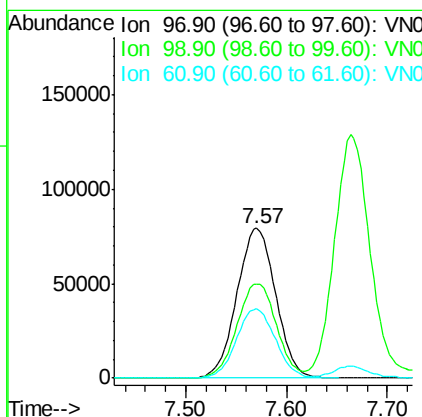
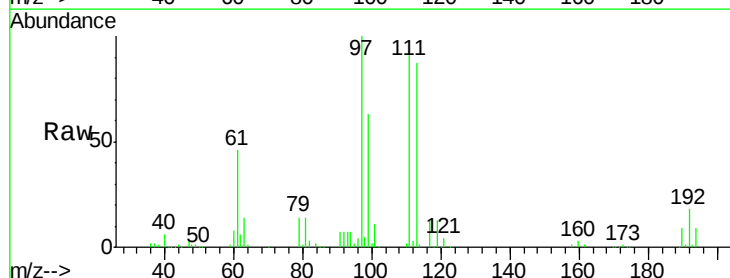
RT: 7.57 min Scan# 1803

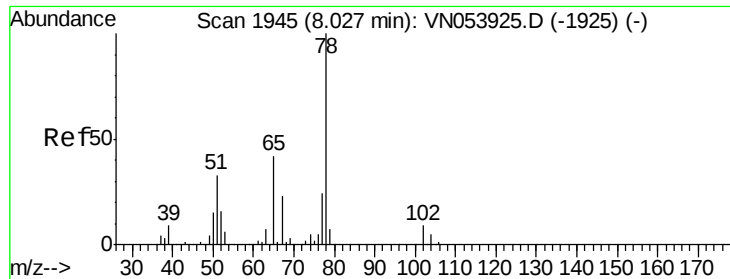
Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion:	97	Resp:	212132
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.8	77.8
61	46.4	33.2	49.8





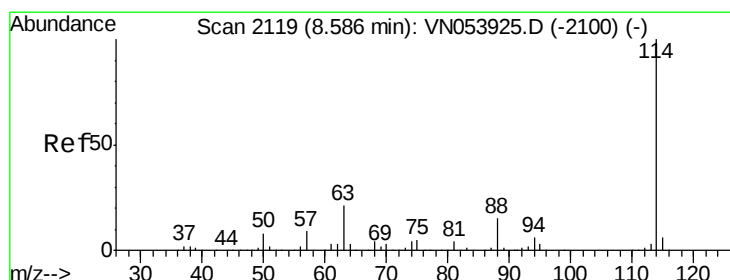
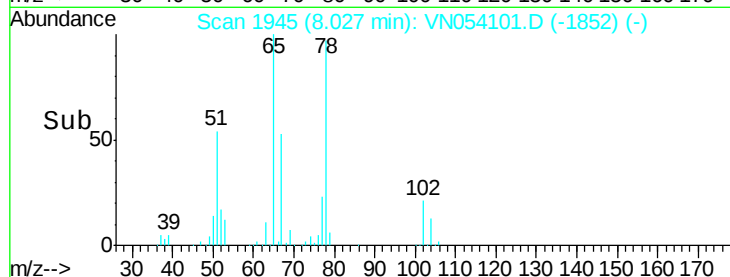
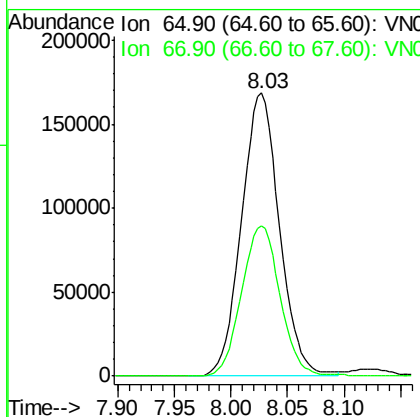
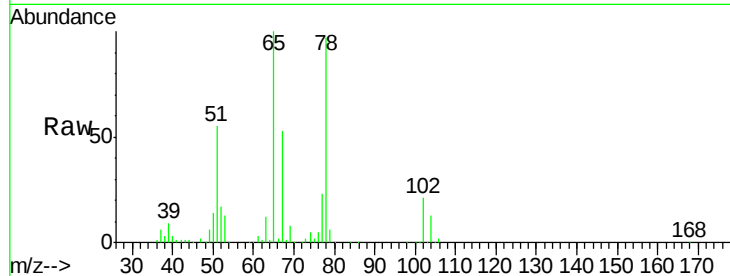
#33
 1,2-Dichloroethane-d4
 Concen: 53.917 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0305WBSD01

Tot Ion: 65 Resp: 393571
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 111.8

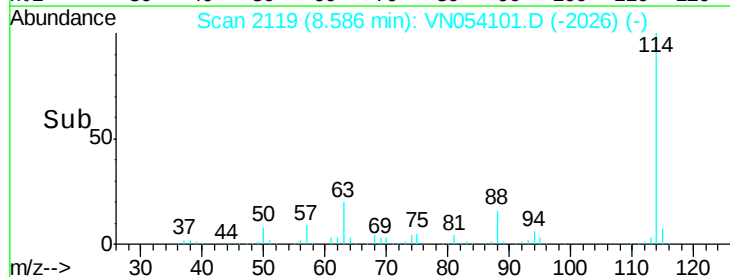
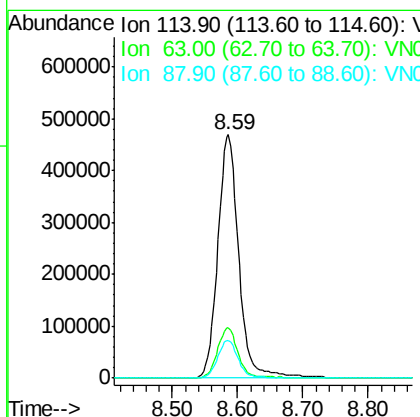
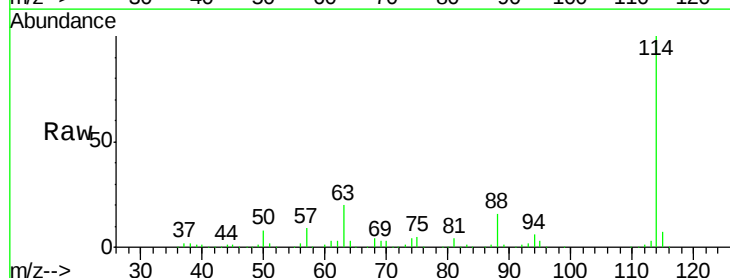
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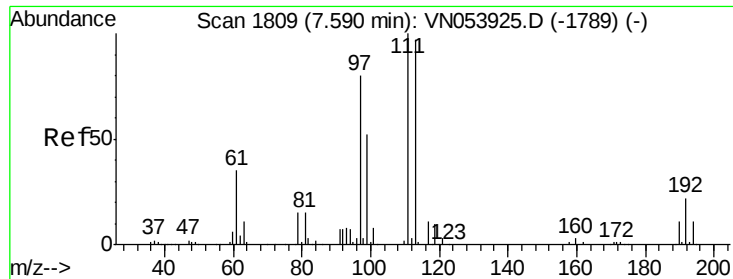
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion: 114 Resp: 1050868
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 37.4
 88 15.6 0.0 30.4





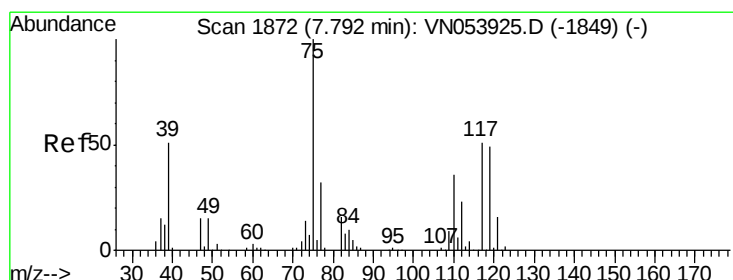
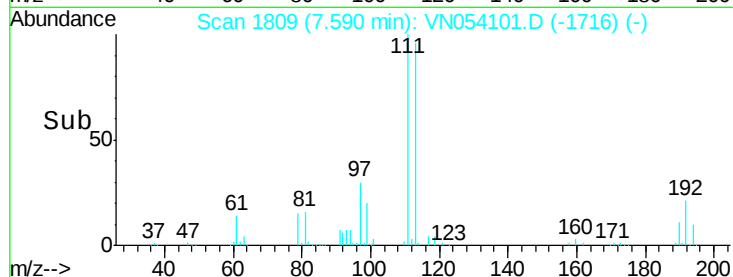
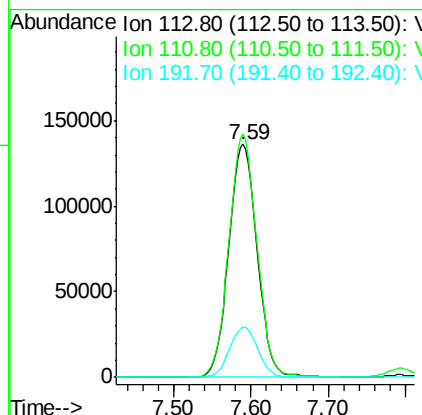
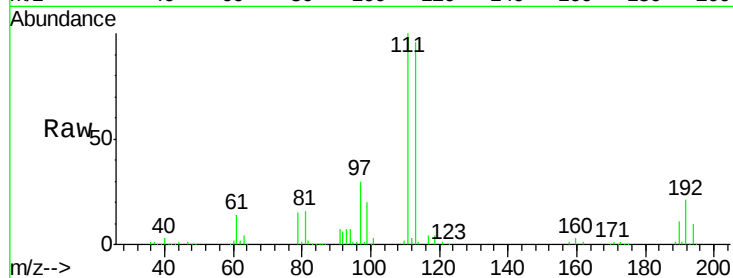
#35
 Dibromofluoromethane
 Concen: 50.835 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0305WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	345452		
111	102.9	81.1	121.7	
192	21.6	18.8	28.2	

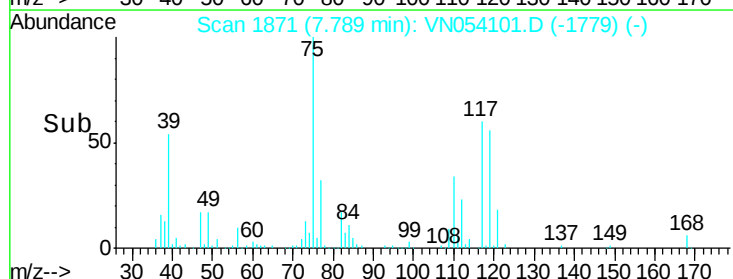
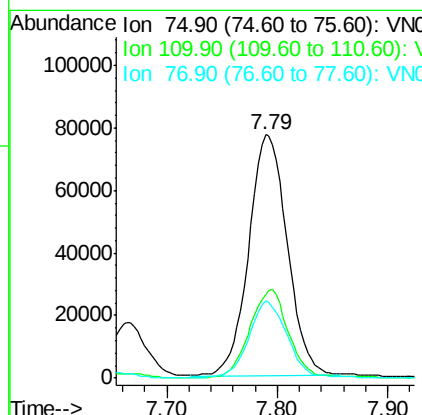
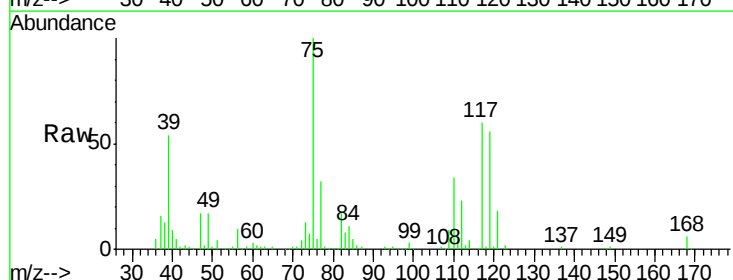
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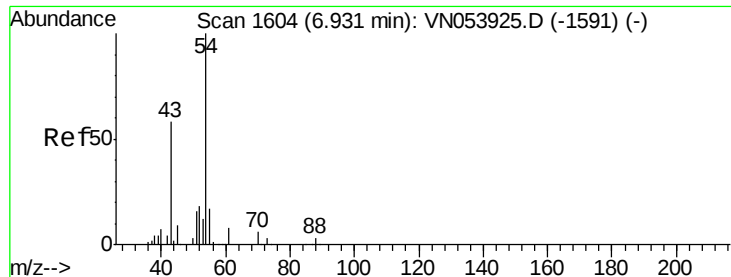
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#36
 1,1-Dichloropropene
 Concen: 19.173 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	187370		
110	37.4	19.0	57.0	
77	31.8	25.4	38.0	





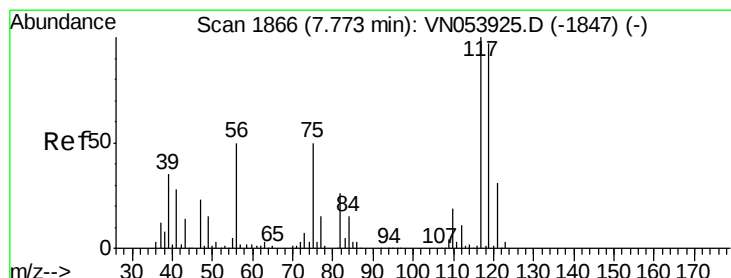
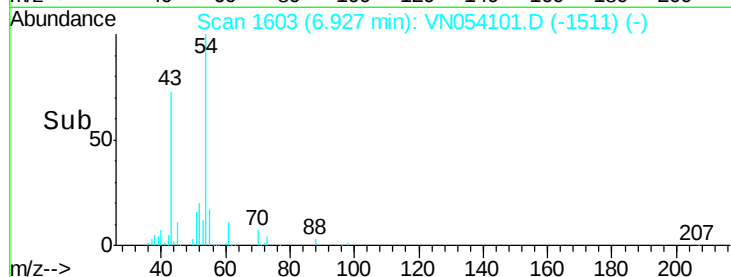
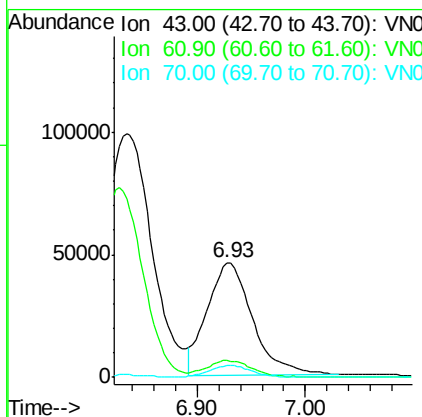
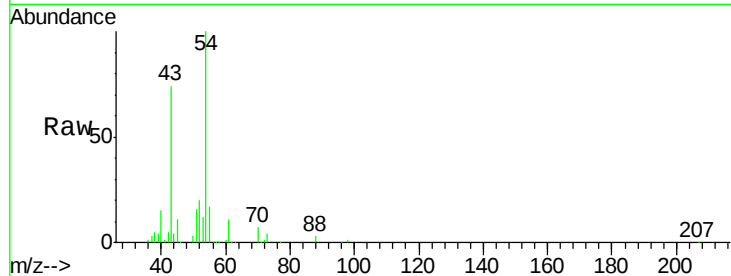
#37
Ethyl Acetate
Concen: 19.191 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

Tot Ion	43	Resp	133913
Ion Ratio	100	Lower	Upper
43	100		
61	14.3	12.0	18.0
70	10.1	8.7	13.1

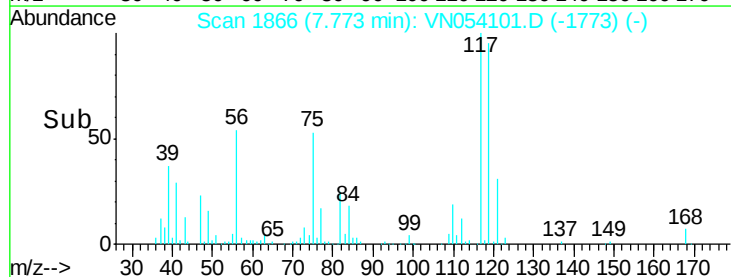
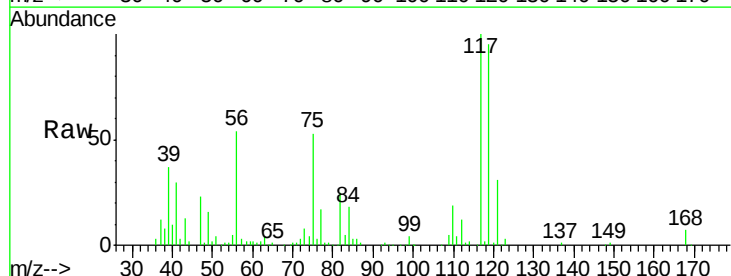
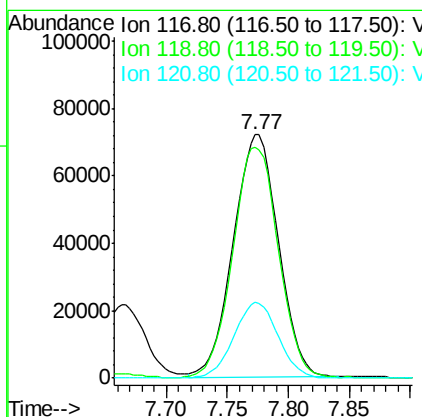
Manual Integrations
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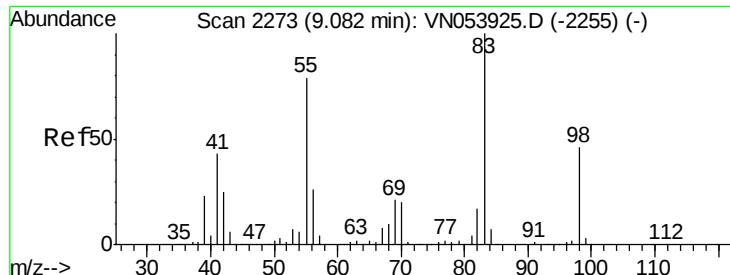
MMDadoda
3/6/2019 9:16:27 AM



#38
Carbon Tetrachloride
Concen: 18.115 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	117	Resp	184119
Ion Ratio	100	Lower	Upper
117	100		
119	95.1	76.2	114.2
121	31.2	24.6	36.8





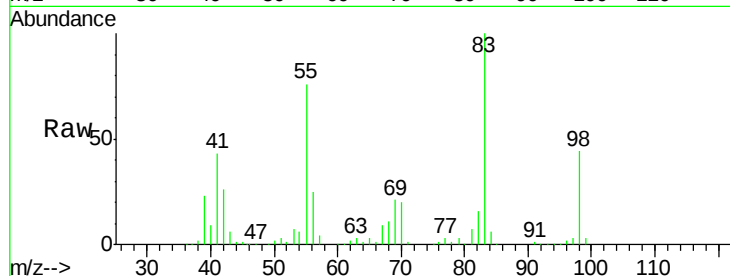
#39
Methvlcvclohexane
Concen: 18.167 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

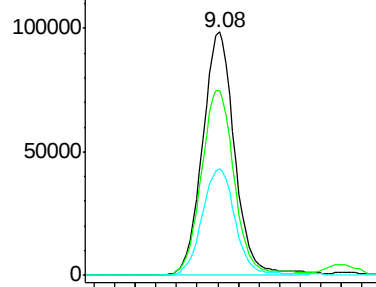
Tot Ion	Ratio	Lower	Upper
83	100		
55	75.9	58.2	87.4
98	43.7	37.2	55.8

Manual Integrations
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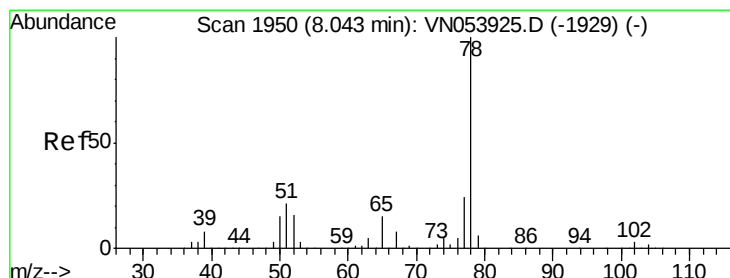
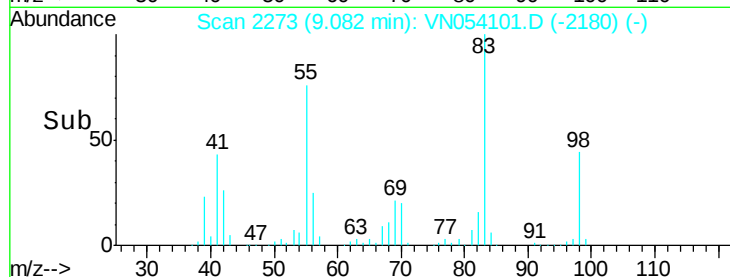
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VN053925.D (-2255) (-)

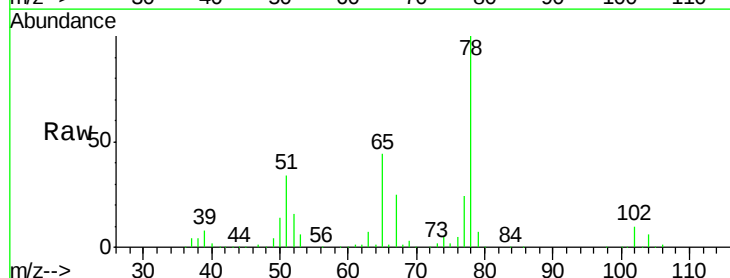


Time-->

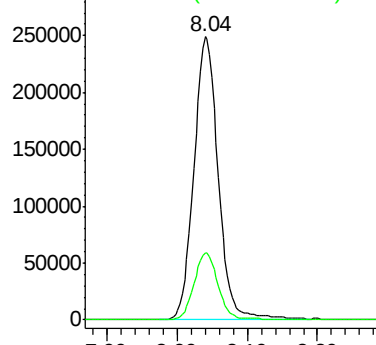


#40
Benzene
Concen: 20.024 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

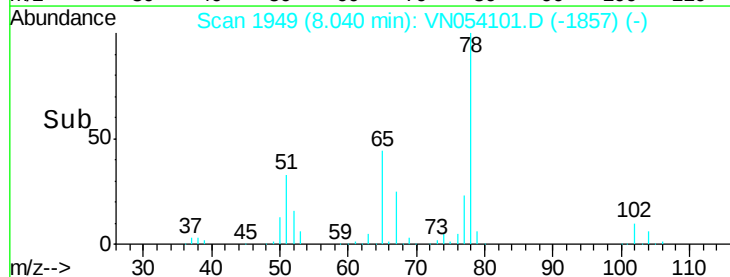
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2

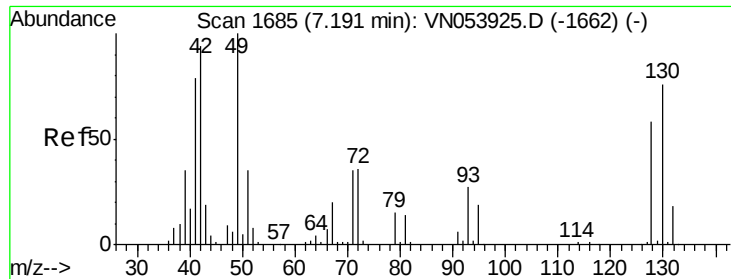


Abundance Ion 78.00 (77.70 to 78.70): VN053925.D (-1929) (-)



Time-->





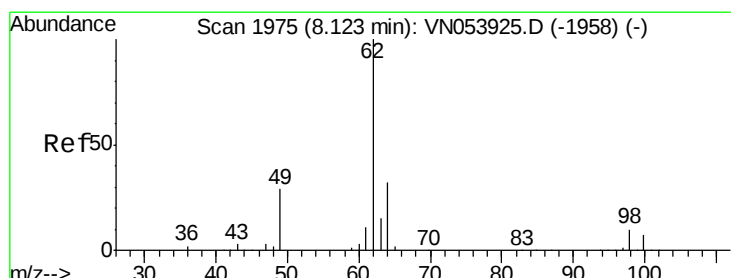
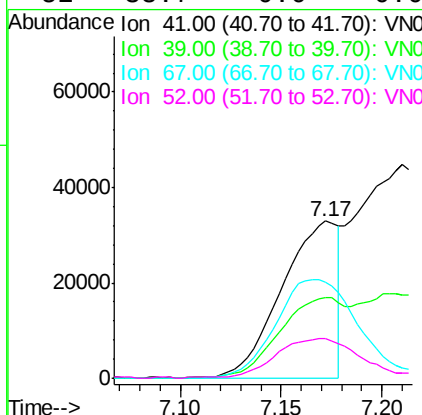
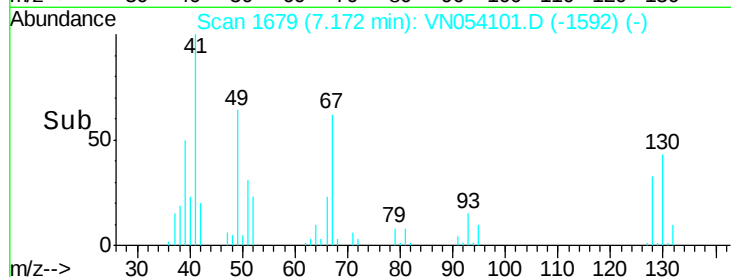
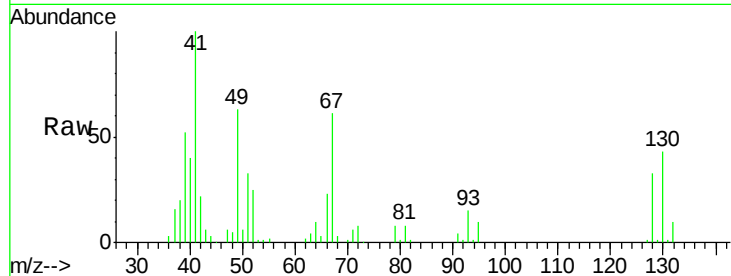
#41
Methacrylonitrile
Concen: 14.219 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.8	0.0	0.0#
67	92.4	0.0	0.0#
52	38.7	0.0	0.0#

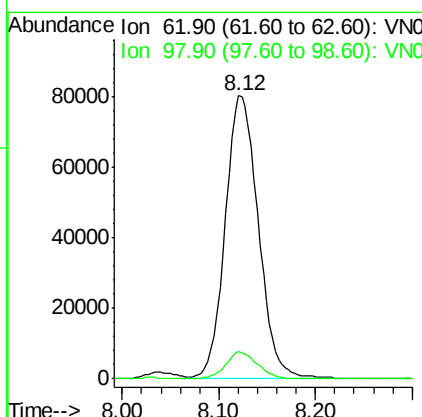
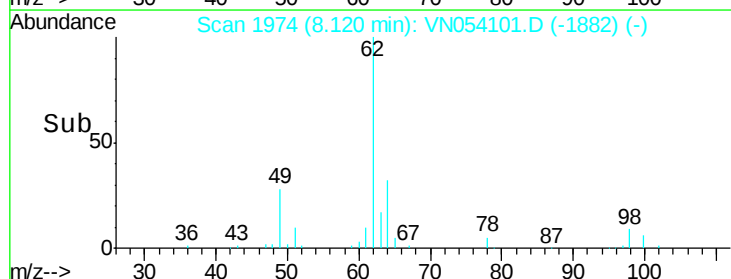
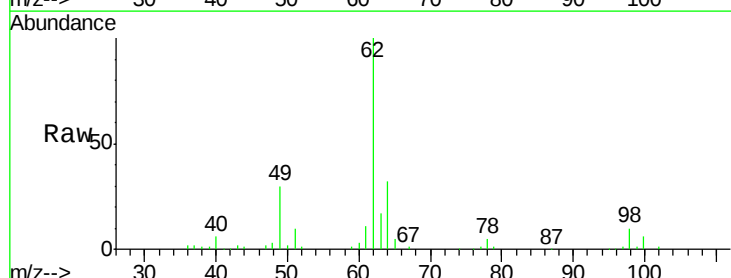
Manual Integrations
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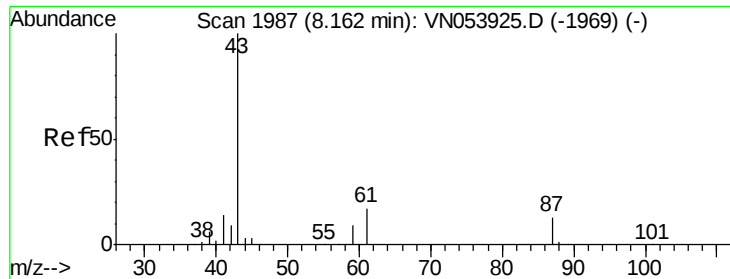
MMDadoda
3/6/2019 9:16:27 AM



#42
1,2-Dichloroethane
Concen: 20.455 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	20.8





#43

Isopropyl Acetate

Concen: 19.881 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

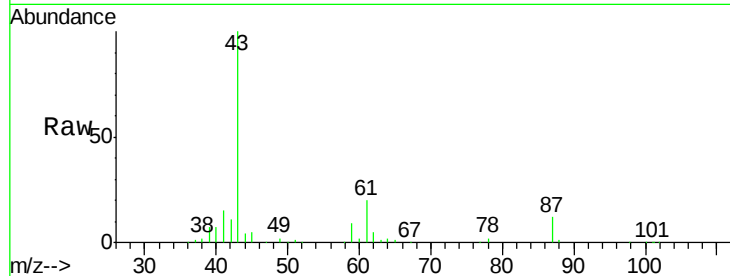
ClientSampleID :

VN0305WBSD01

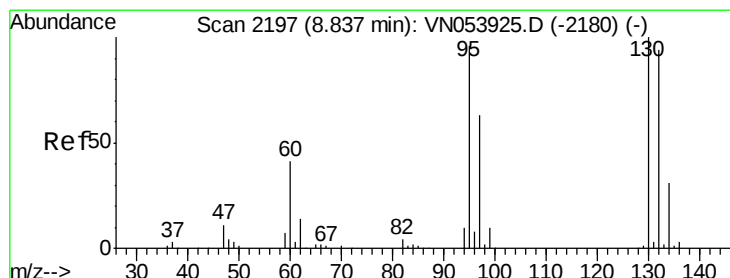
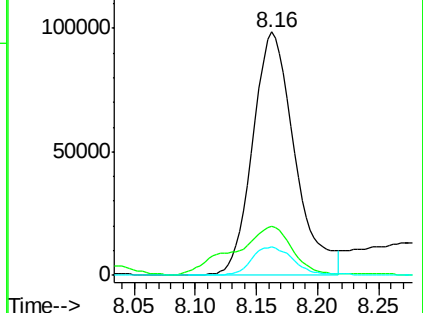
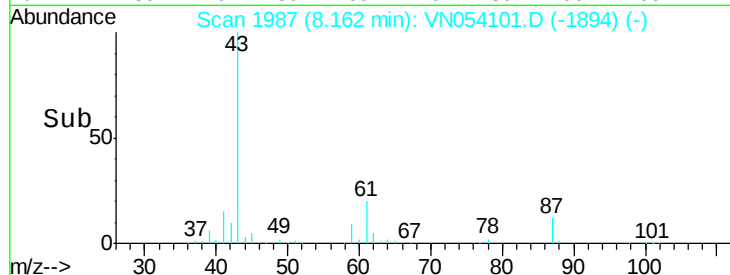
Tot Ion:	43	Resp:	234231
Ion	Ratio	Lower	Upper
43	100		
61	27.0	17.4	26.0#
87	11.8	11.5	17.3

Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VN054101.D (-1894) (-)



#44

Trichloroethene

Concen: 19.590 ug/l

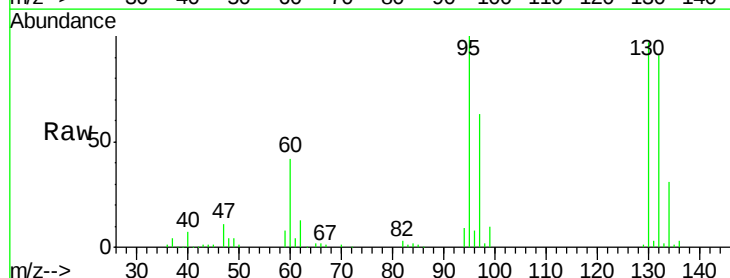
RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

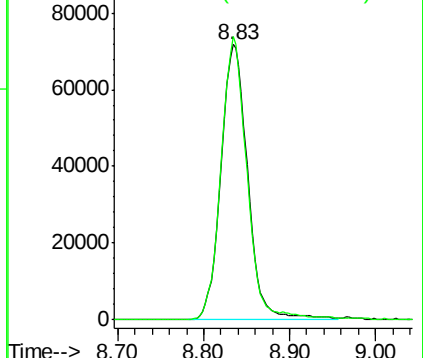
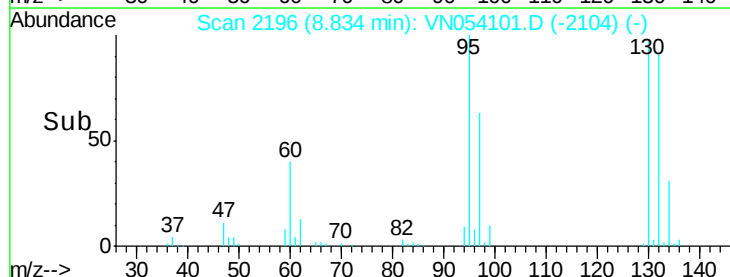
Lab File: VN054101.D

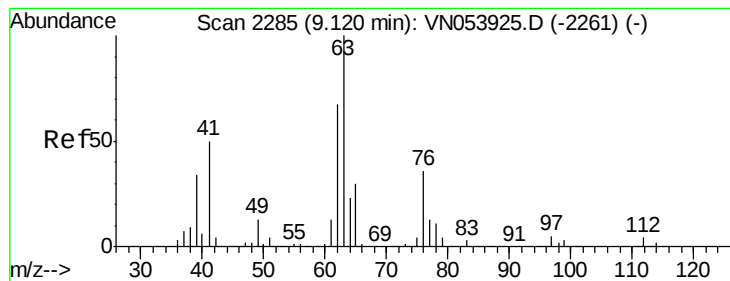
Acq: 5 Mar 2019 16:08

Tgt Ion:	130	Resp:	155917
Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	190.0



Abundance Ion 129.80 (129.50 to 130.50): VN054101.D (-2104) (-)





#45

1,2-Dichloropropane

Concen: 20.218 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

VN0305WBSD01

Tot Ion: 63 Resp: 163762

Ion Ratio Lower Upper

63 100

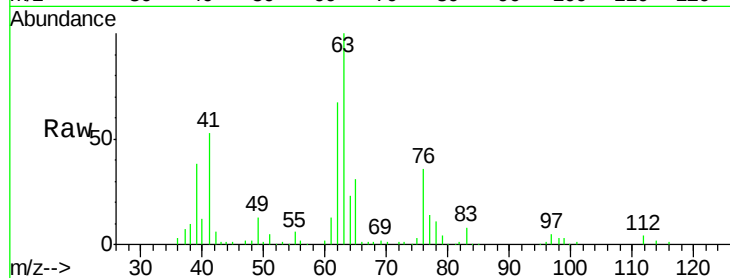
65 31.1 24.3 36.5

Manual Integrations

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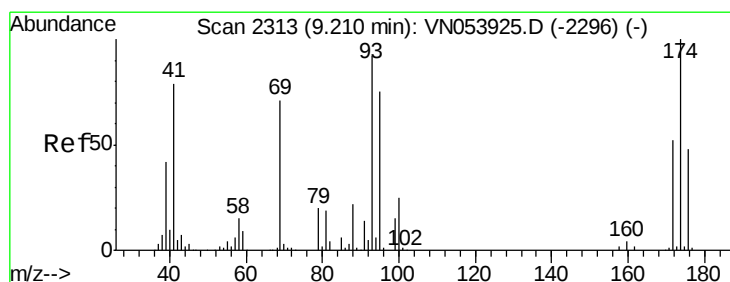
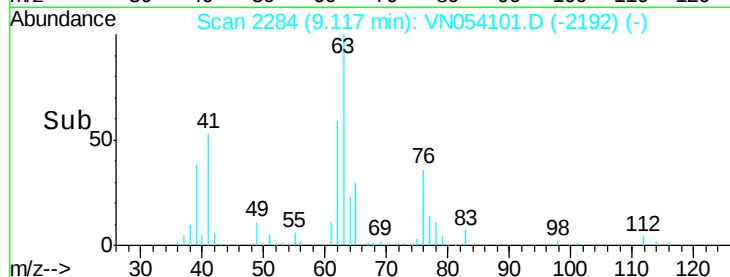
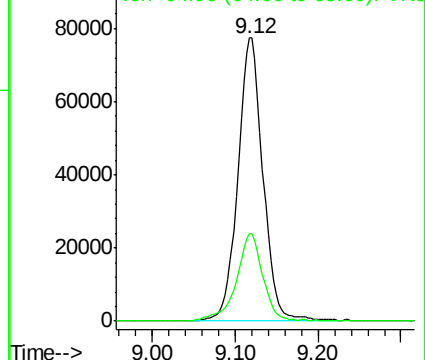
MMDadoda

3/6/2019 9:16:27 AM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.774 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

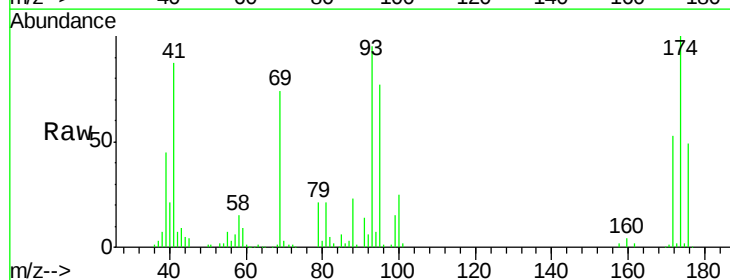
Tgt Ion: 93 Resp: 92984

Ion Ratio Lower Upper

93 100

95 84.2 66.6 100.0

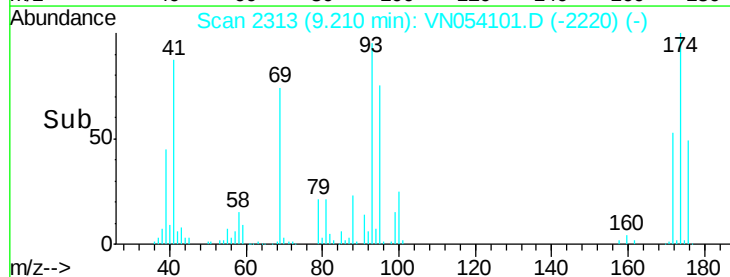
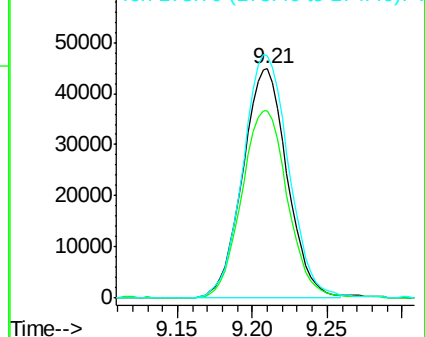
174 109.4 96.2 144.4

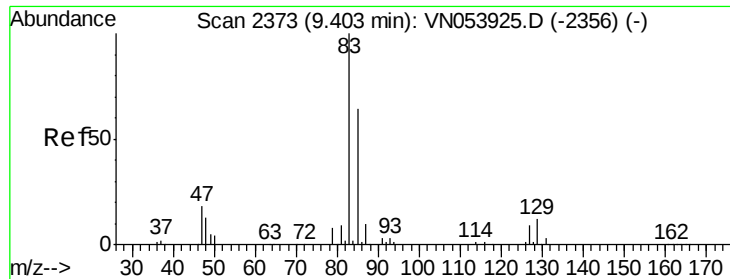


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.035 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

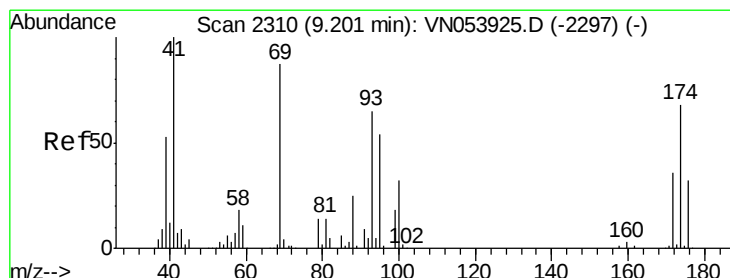
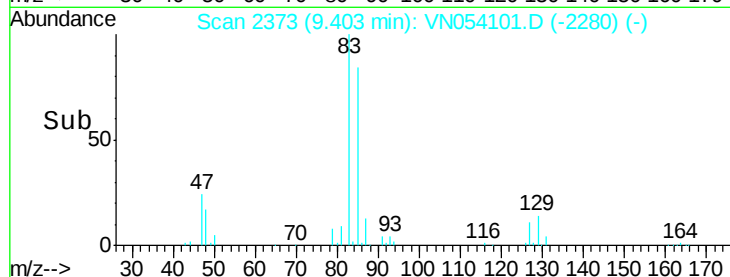
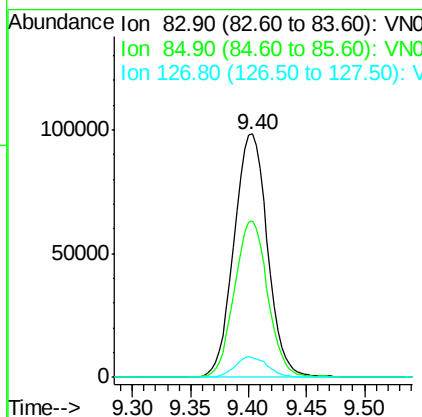
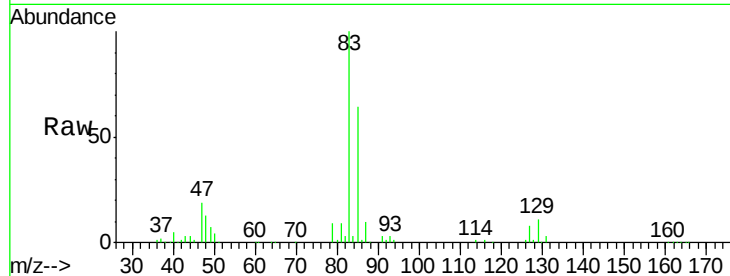
ClientSampled :

VN0305WBSD01

Tot Ion:	83	Resp:	198547
Ion Ratio	Lower	Upper	
83	100		
85	64.2	51.8	77.6
127	8.2	7.4	11.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.447 ug/l

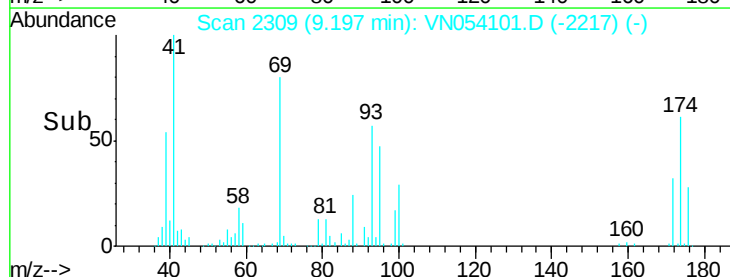
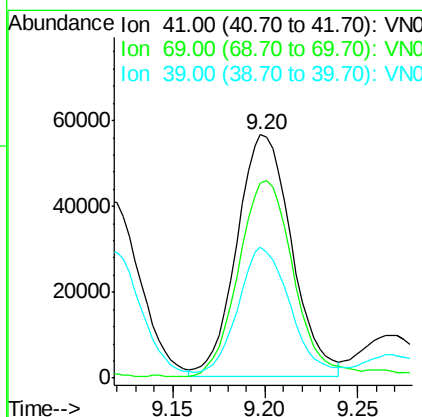
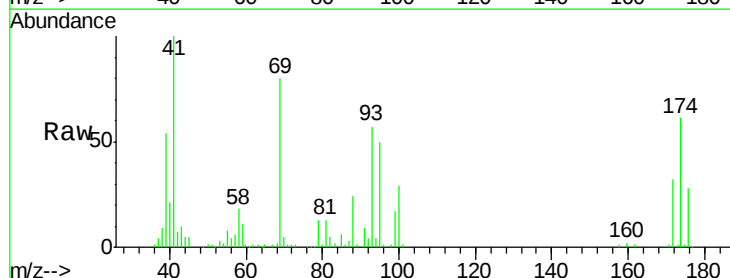
RT: 9.20 min Scan# 2309

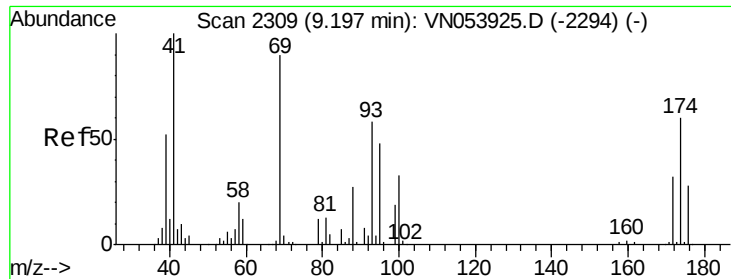
Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion:	41	Resp:	116229
Ion Ratio	Lower	Upper	
41	100		
69	81.5	74.8	112.2
39	52.1	39.0	58.6





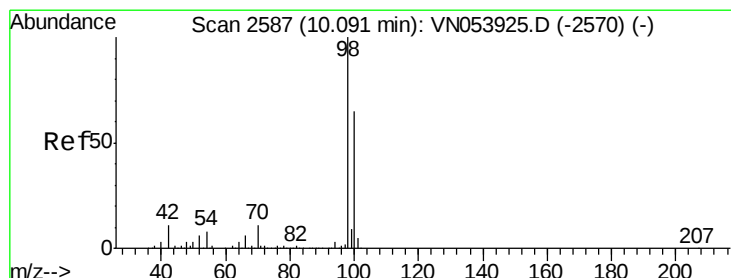
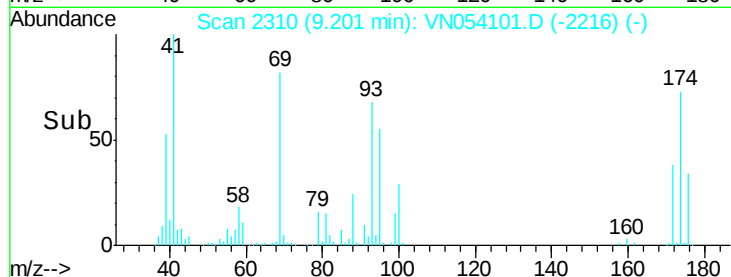
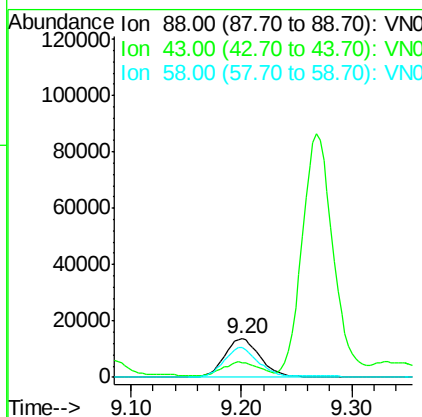
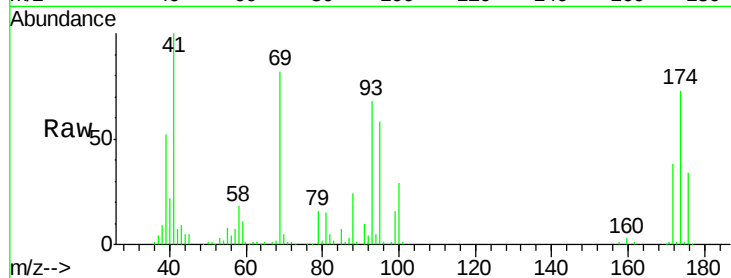
#49
1,4-Dioxane
Concen: 427.432 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.2	21.2	31.8#
58	72.6	54.2	81.2

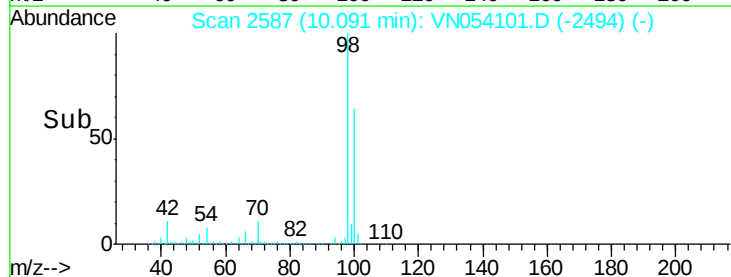
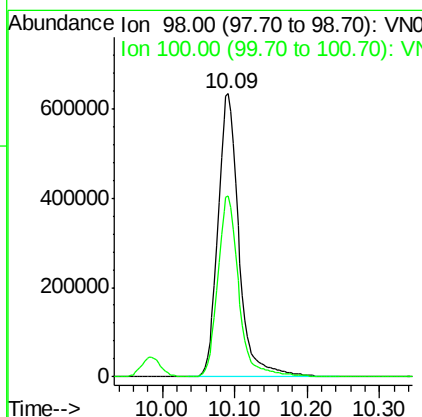
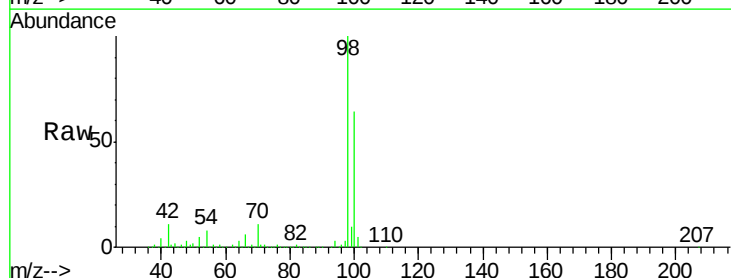
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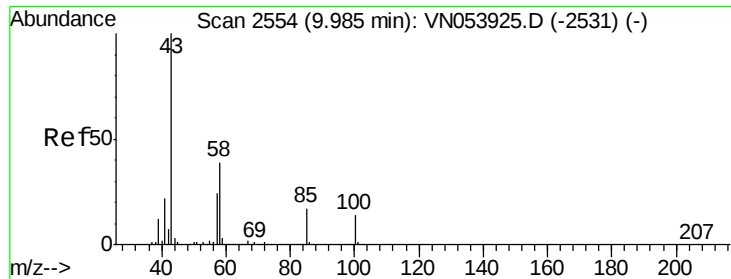
MMDadoda
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#50
Toluene-d8
Concen: 50.127 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.9	77.9





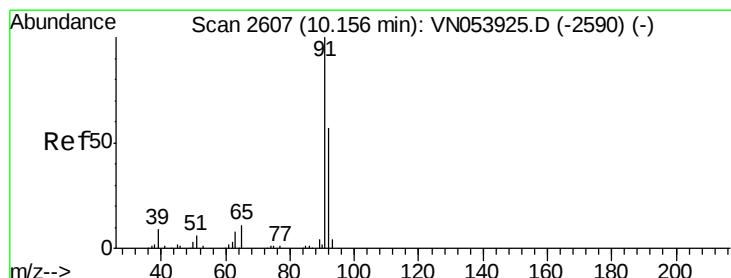
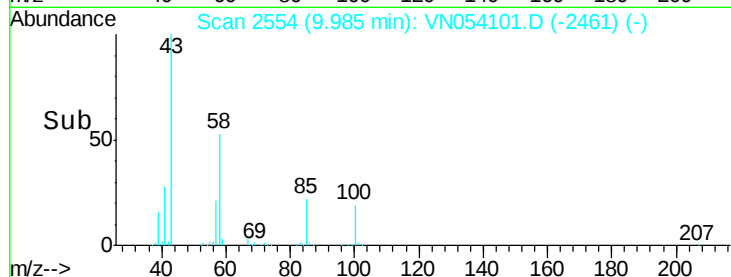
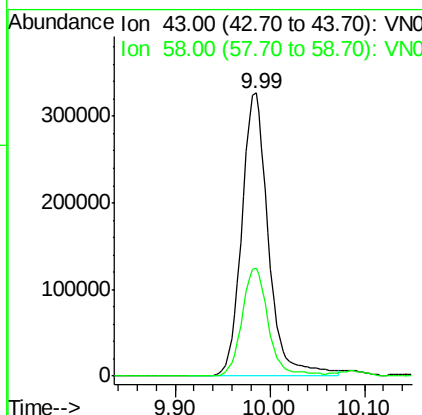
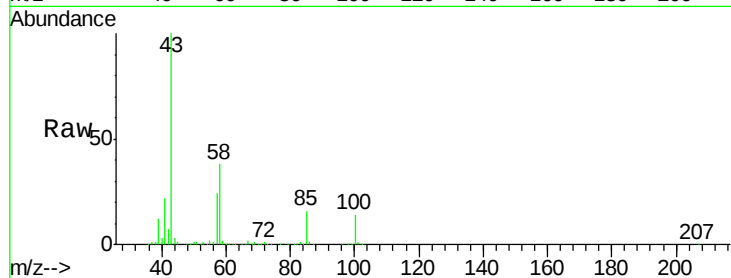
#51
 4-Methyl-2-Pentanone
 Concen: 105.134 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0305WBSD01

Tot Ion: 43 Resp: 636520
 Ion Ratio Lower Upper
 43 100
 58 37.9 32.7 49.1

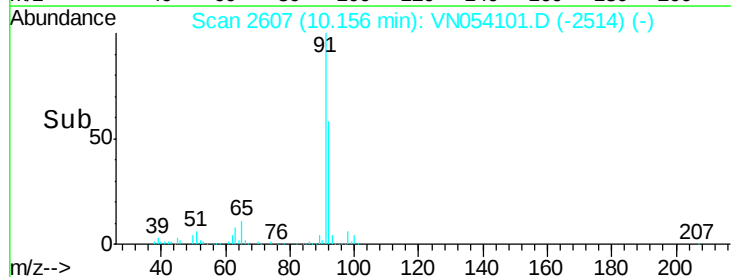
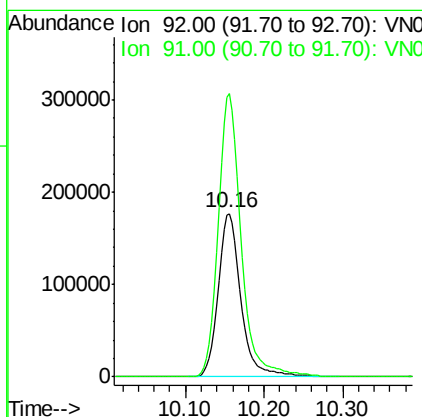
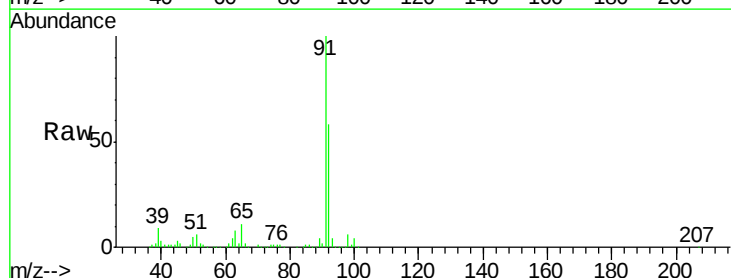
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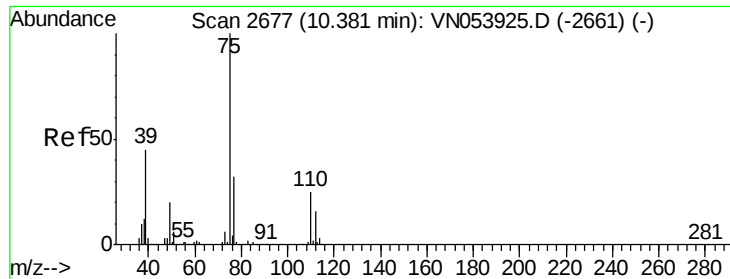
MMDadoda
 3/6/2019 9:16:27 AM



#52
 Toluene
 Concen: 19.888 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion: 92 Resp: 351580
 Ion Ratio Lower Upper
 92 100
 91 175.5 138.4 207.6





#53

t-1,3-Dichloropropene

Concen: 19.437 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

VN0305WBSD01

Tot Ion: 75 Resp: 187416

Ion Ratio Lower Upper

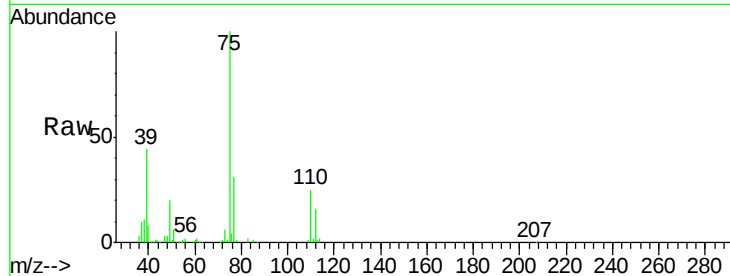
75 100

77 31.1 25.0 37.6

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

120000

100000

80000

60000

40000

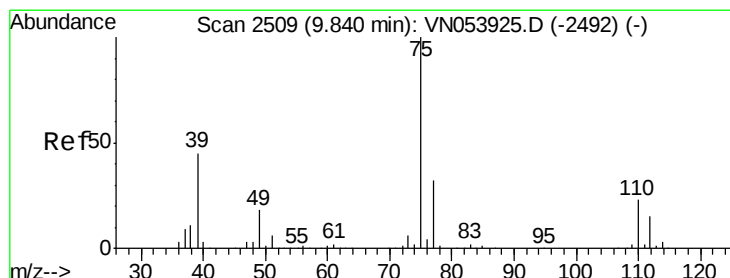
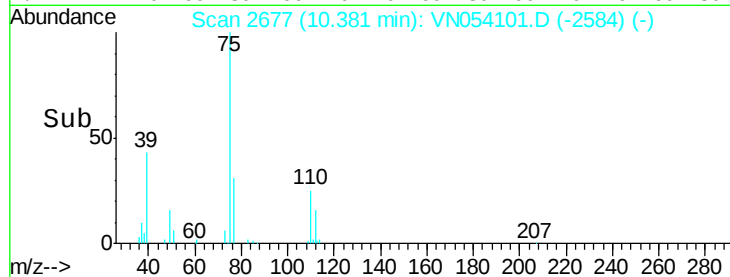
20000

0

10.38

10.30 10.40 10.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.545 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

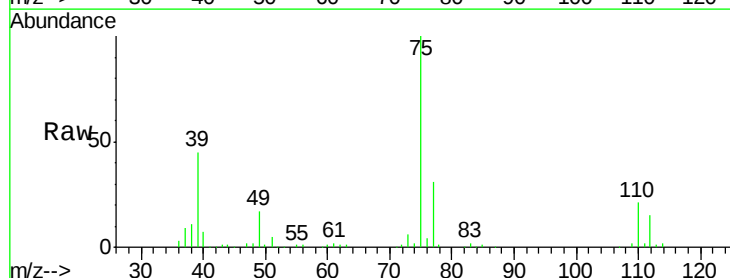
Tgt Ion: 75 Resp: 222174

Ion Ratio Lower Upper

75 100

77 30.6 25.8 38.6

39 45.1 31.4 47.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

150000

100000

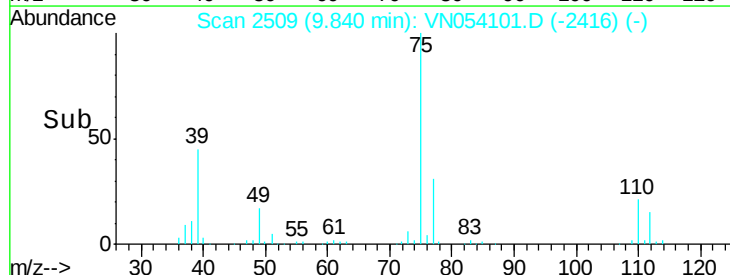
50000

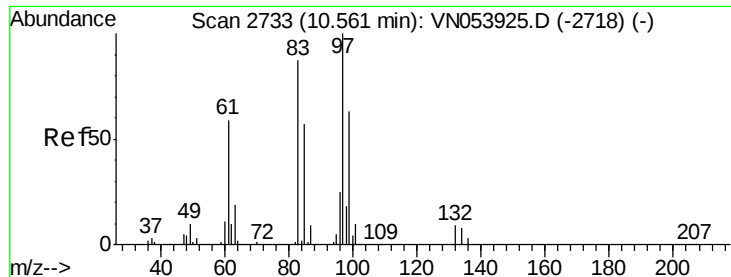
0

9.84

9.70 9.80 9.90 10.00

Time-->





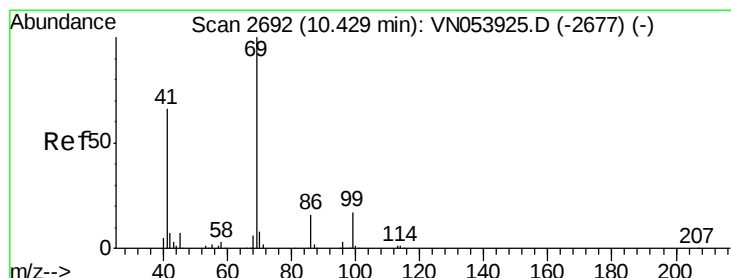
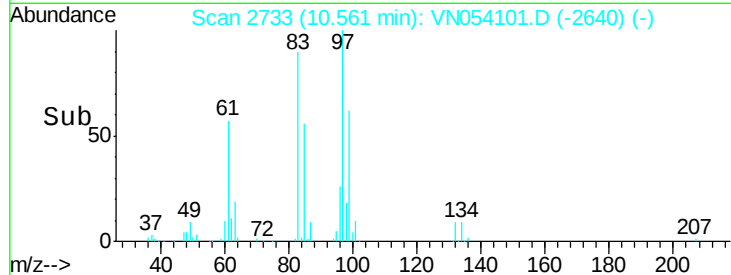
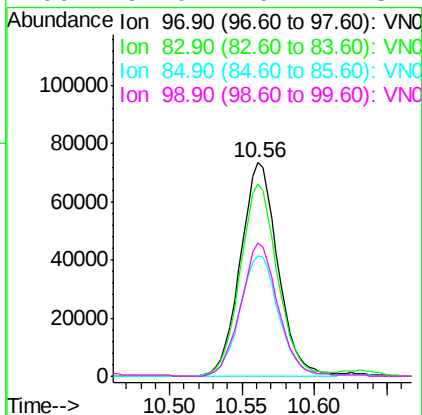
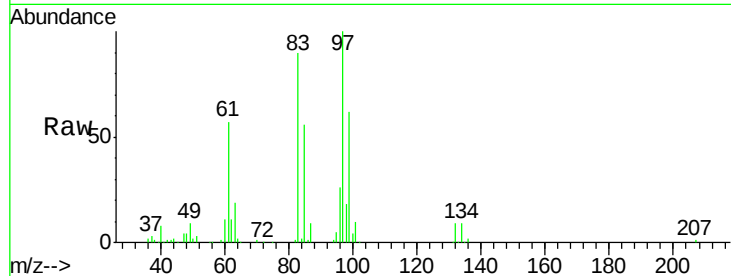
#55
 1,1,2-Trichloroethane
 Concen: 20.036 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0305WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		132276		
83	89.9	69.5	104.3		
85	56.2	45.9	68.9		
99	62.0	49.1	73.7		

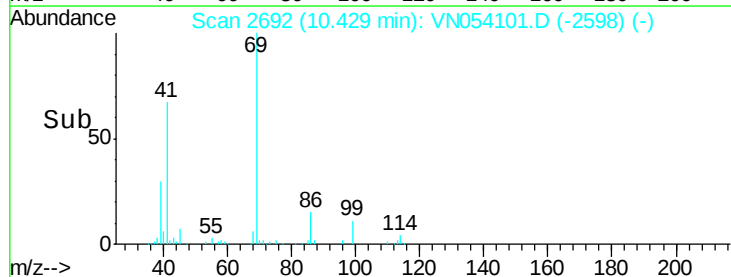
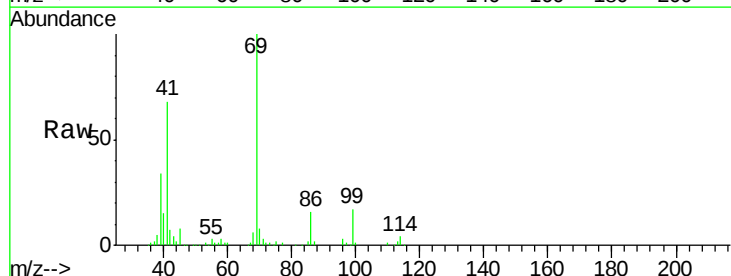
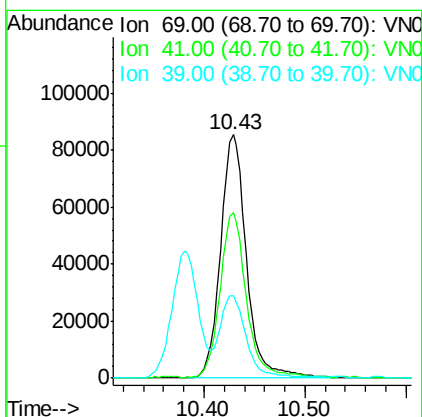
Manual Integrations
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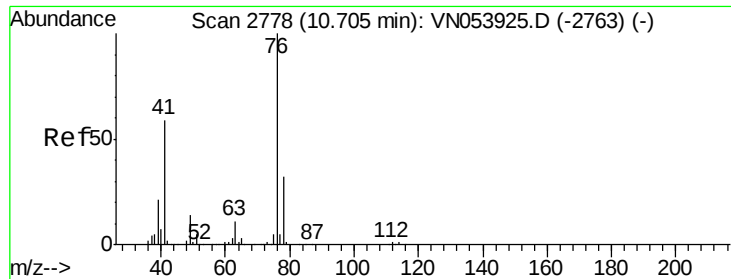
MMDadoda
 3/6/2019 9:16:27 AM



#56
 Ethyl methacrylate
 Concen: 19.032 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		153844		
41	68.4	47.5	71.3		
39	32.9	23.4	35.0		





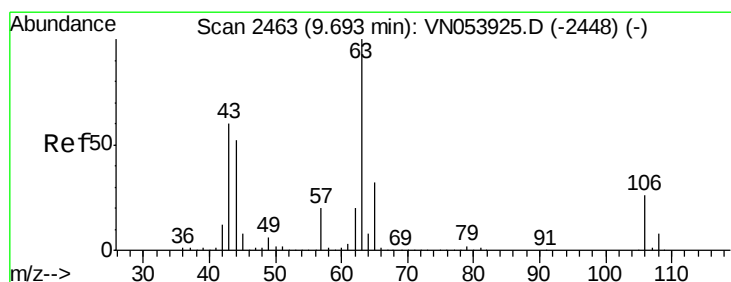
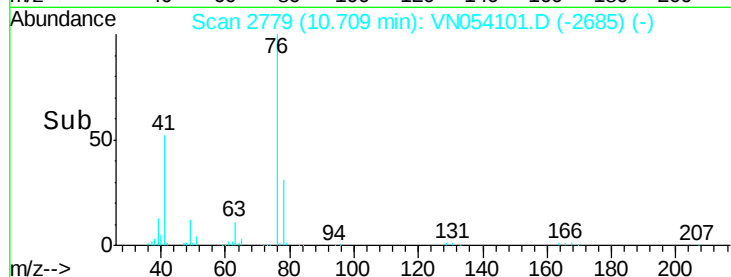
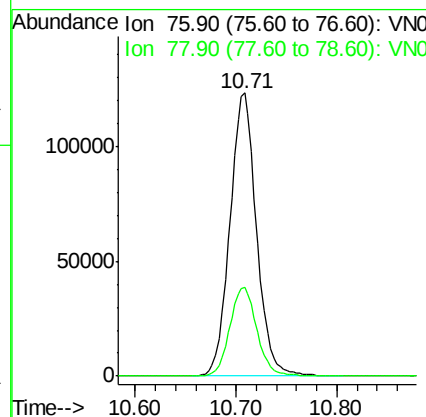
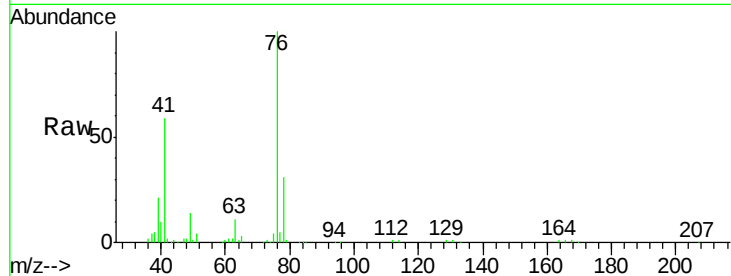
#57
 1,3-Dichloropropane
 Concen: 20.350 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0305WBSD01

Tot Ion: 76 Resp: 227009
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.2 37.8

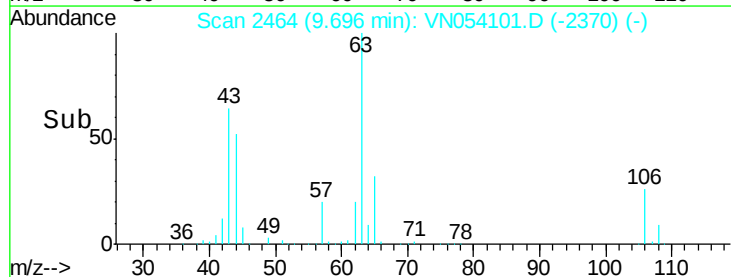
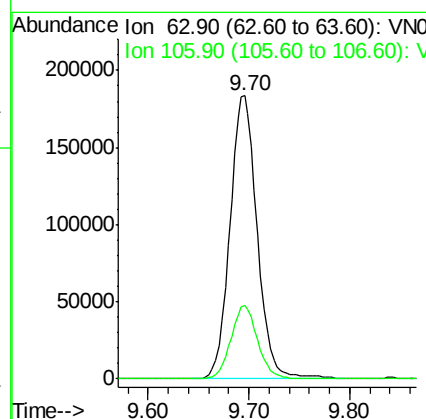
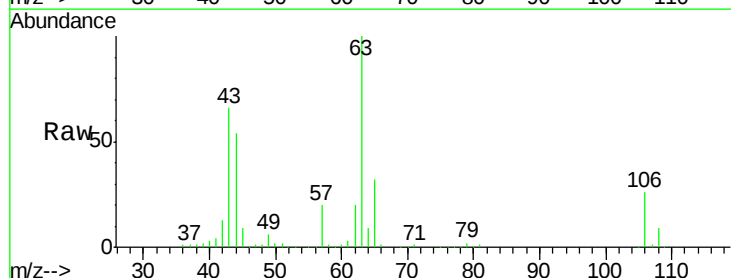
Manual Integrations
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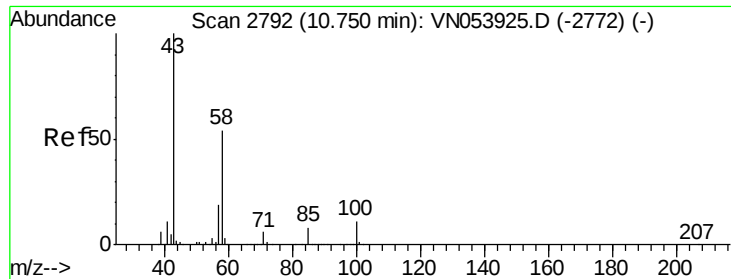
MMDadoda
 3/6/2019 9:16:27 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.623 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion: 63 Resp: 345277
 Ion Ratio Lower Upper
 63 100
 106 25.5 22.2 33.2





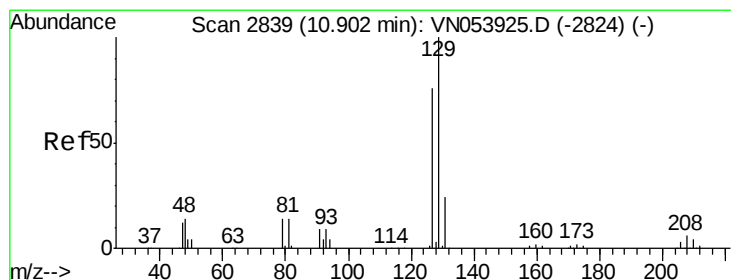
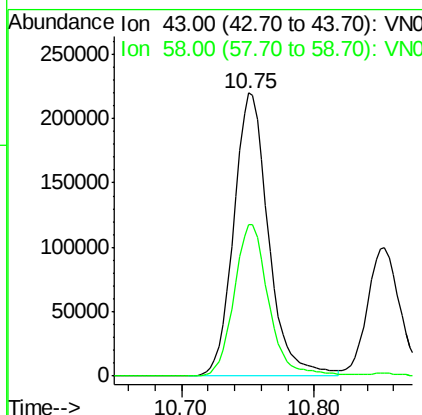
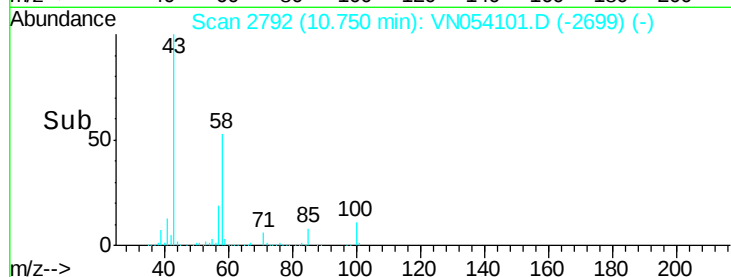
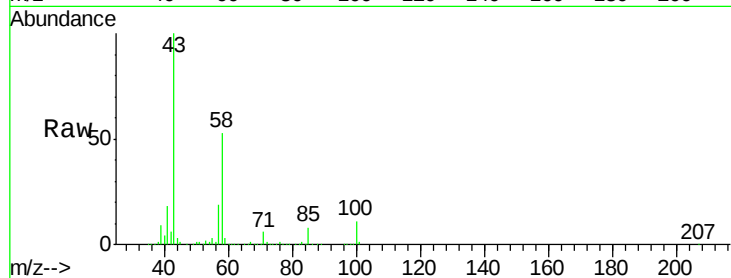
#59
2-Hexanone
Concen: 100.719 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion: 43 Resp: 396596
Ion Ratio Lower Upper
43 100
58 53.7 29.1 87.4

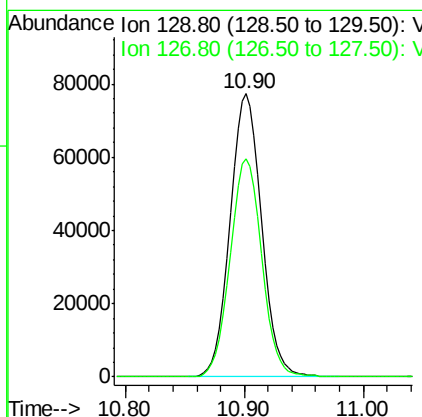
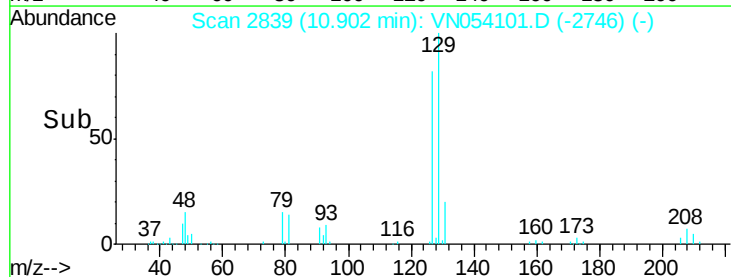
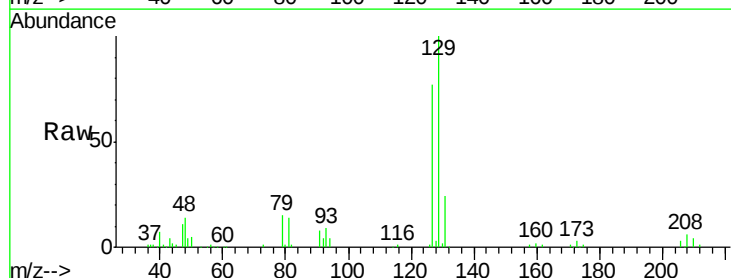
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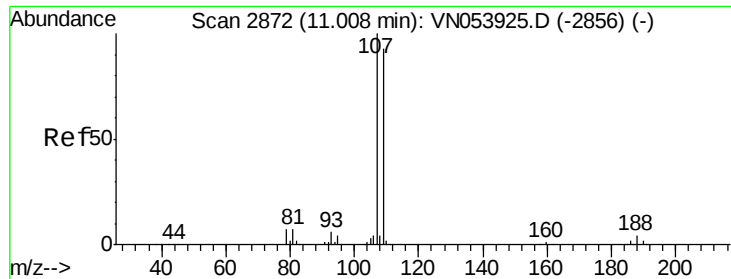
MMDadoda
3/6/2019 9:16:27 AM



#60
Dibromochloromethane
Concen: 19.355 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion: 129 Resp: 142011
Ion Ratio Lower Upper
129 100
127 77.3 38.8 116.3





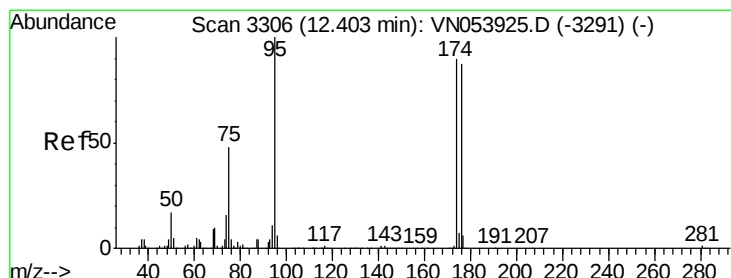
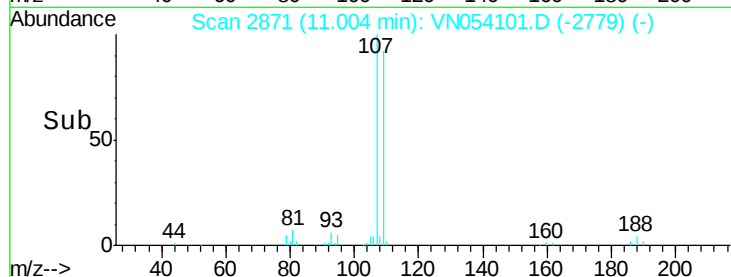
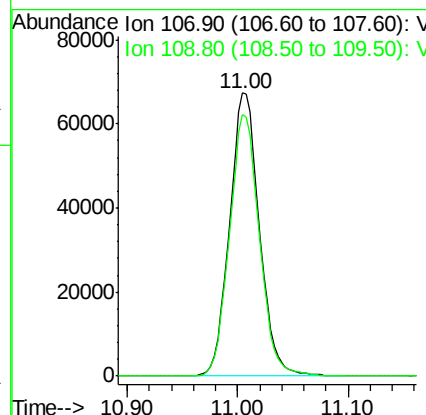
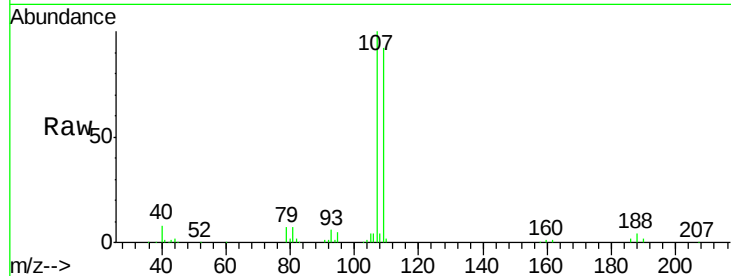
#61
 1,2-Dibromoethane
 Concen: 19.788 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.9	76.3	114.5

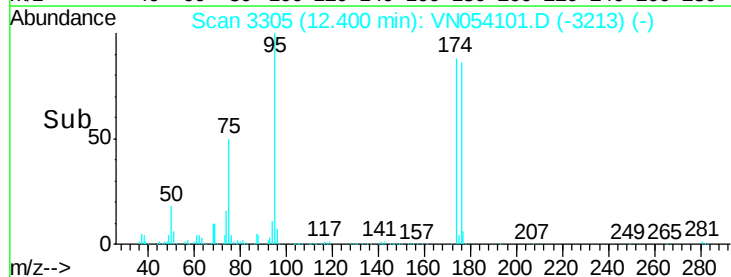
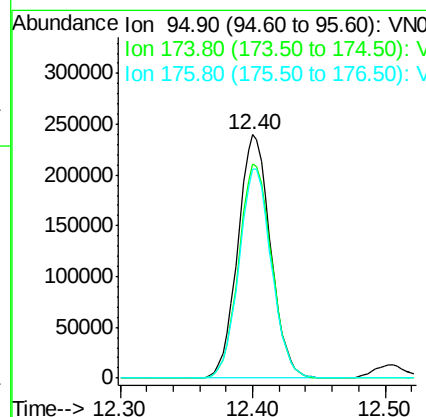
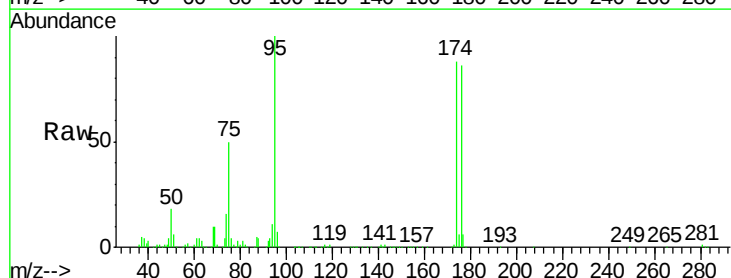
Manual Integrations
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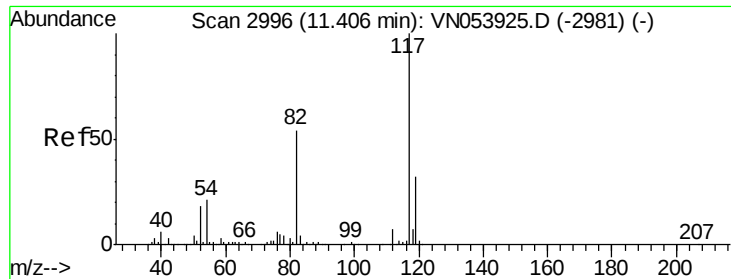
MMDadoda
 3/6/2019 9:16:27 AM



#62
 4-Bromofluorobenzene
 Concen: 48.736 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.4	0.0	188.8
176	85.5	0.0	182.6





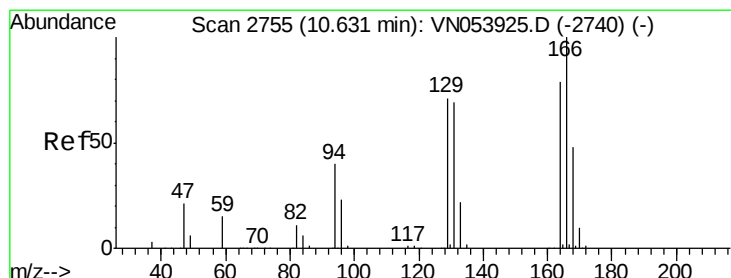
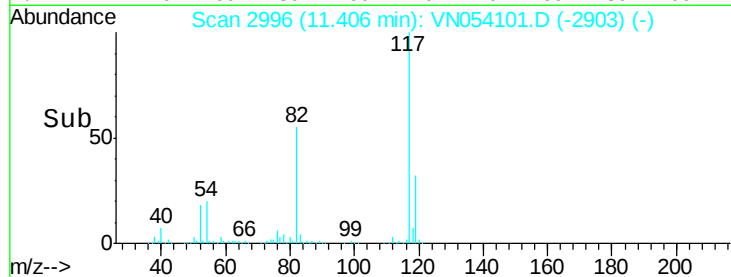
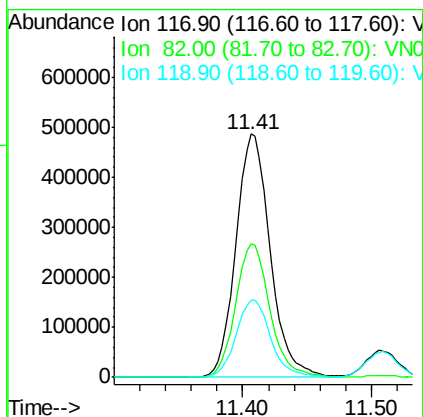
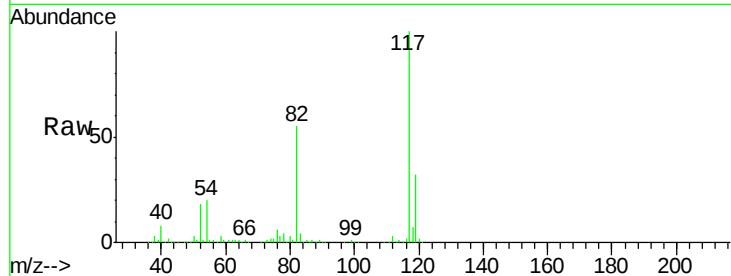
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
VN0305WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	903189		
82	55.1	41.4	62.2	
119	31.6	25.3	37.9	

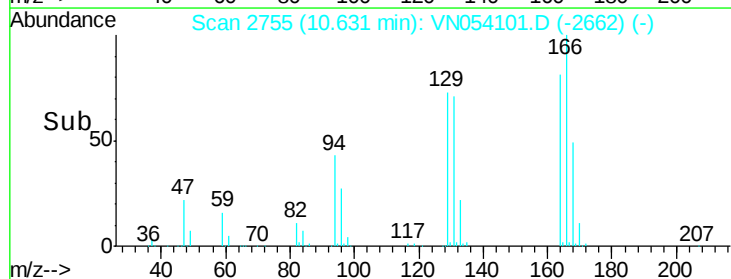
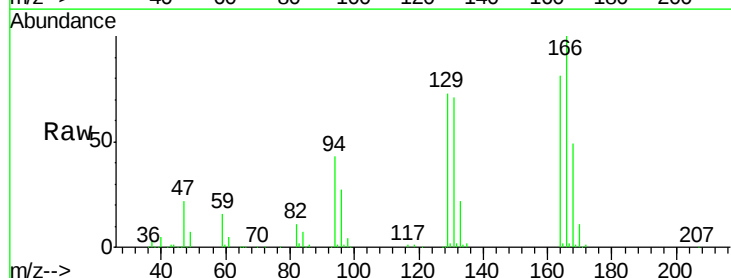
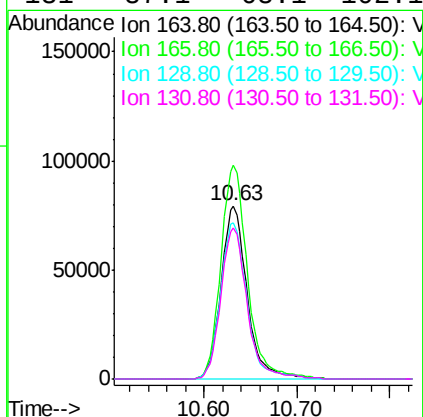
Manual Integrations
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#64
Tetrachloroethene
Concen: 20.246 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	154841		
166	123.5	102.6	153.8	
129	90.4	69.4	104.0	
131	87.1	68.1	102.1	





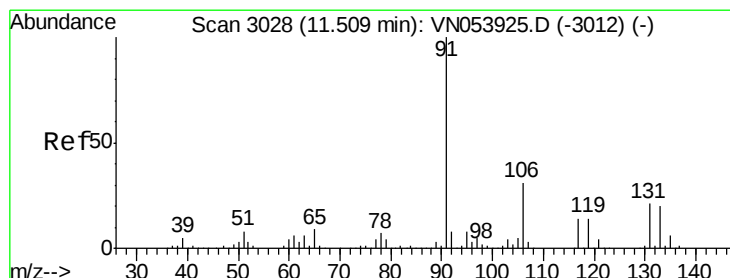
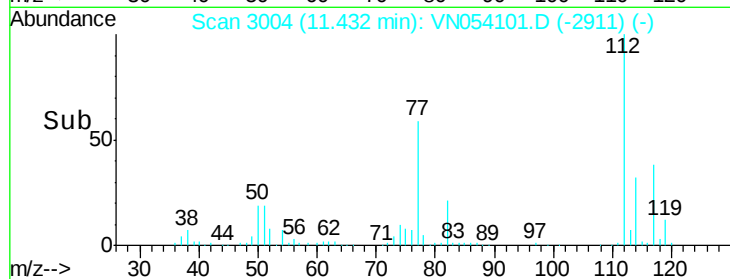
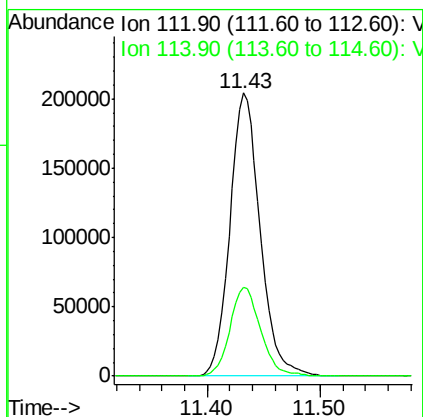
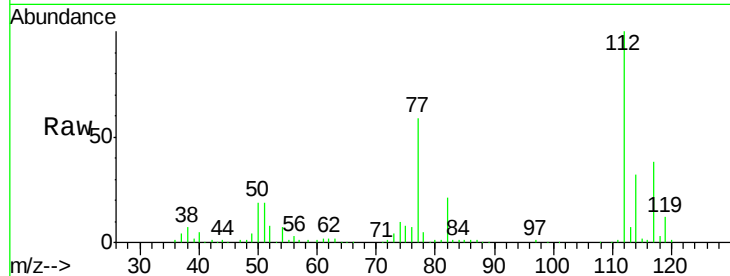
#65
Chlorobenzene
Concen: 19.899 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

Tot Ion:112 Resp: 379304
Ion Ratio Lower Upper
112 100
114 31.6 25.7 38.5

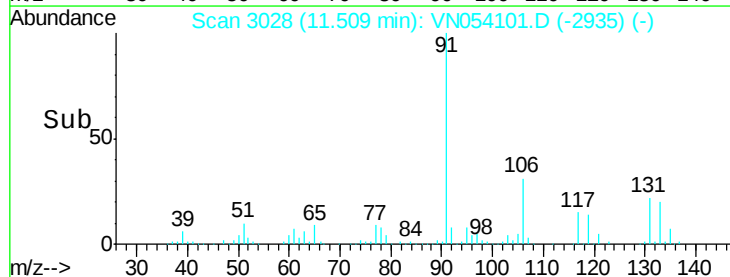
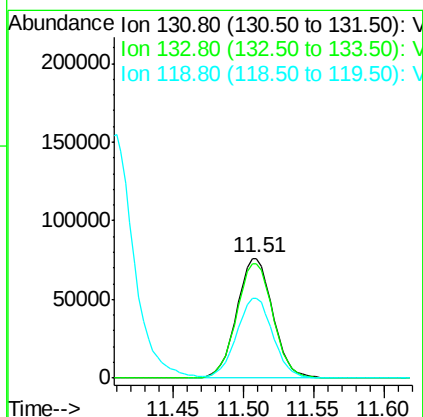
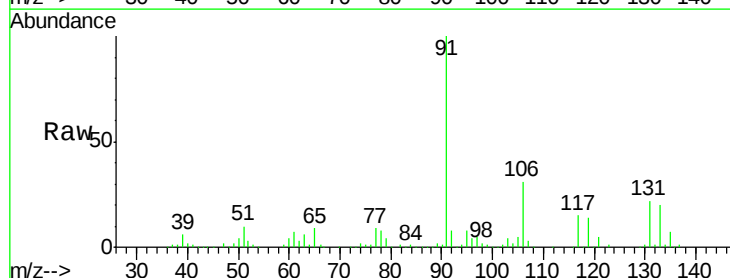
Manual Integrations
APPROVED

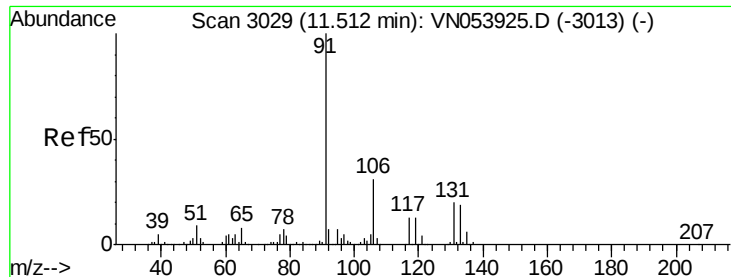
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.894 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion:131 Resp: 136666
Ion Ratio Lower Upper
131 100
133 96.4 47.7 143.1
119 67.0 33.1 99.3





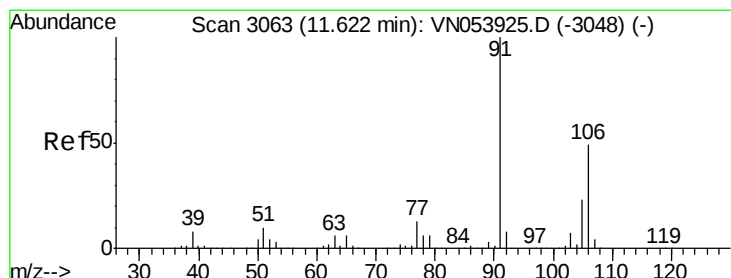
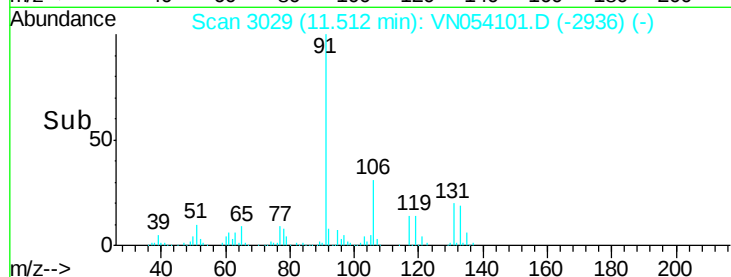
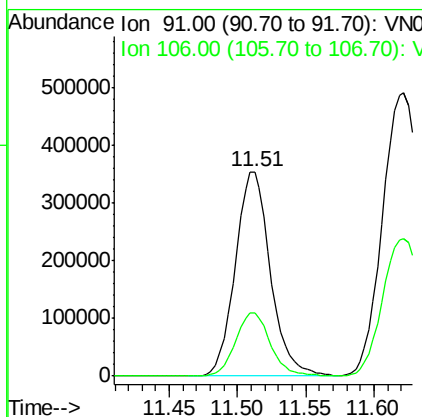
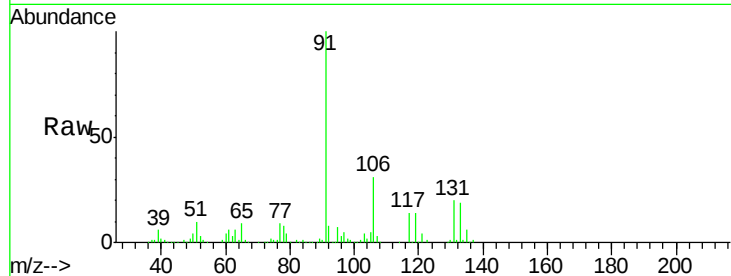
#67
Ethyl Benzene
Concen: 19.828 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

Tot Ion: 91 Resp: 633604
Ion Ratio Lower Upper
91 100
106 30.7 25.2 37.8

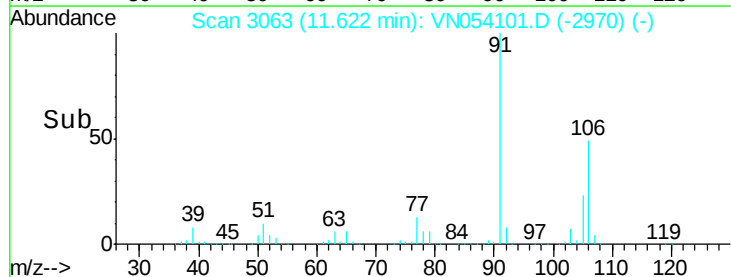
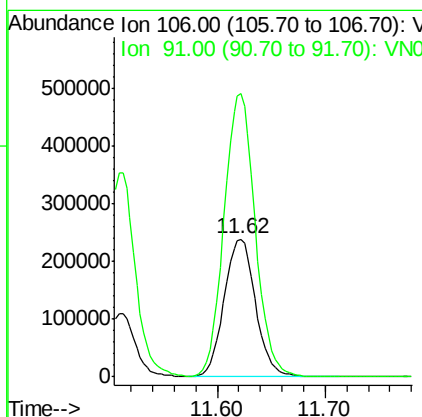
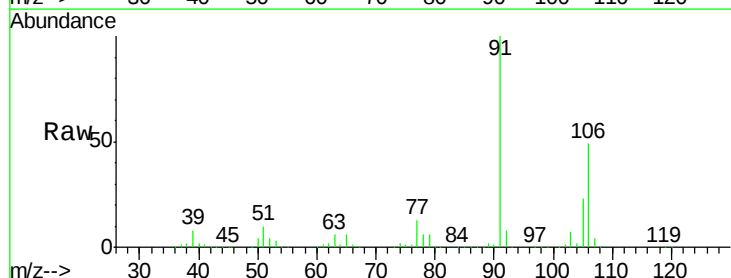
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APPROVED

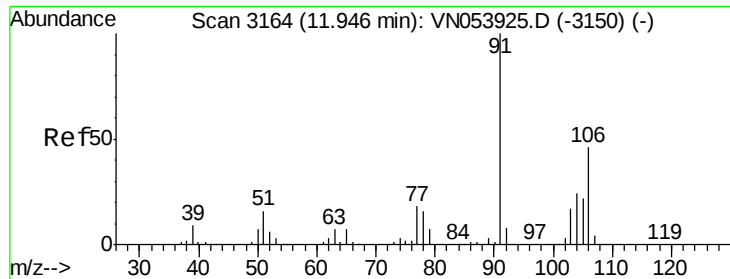
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#68
m/p-Xylenes
Concen: 40.173 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion: 106 Resp: 484512
Ion Ratio Lower Upper
106 100
91 203.3 158.9 238.3





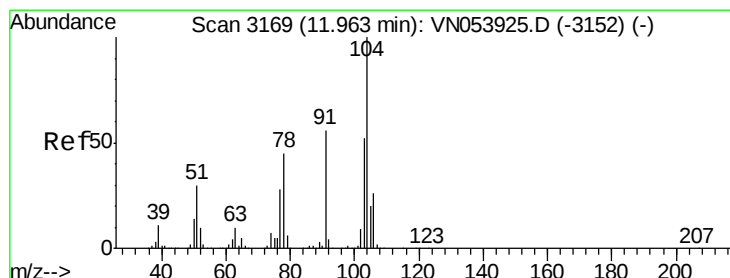
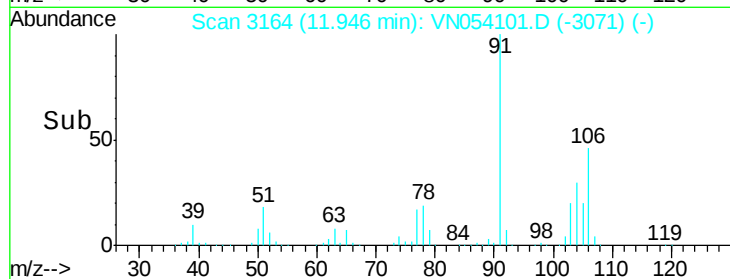
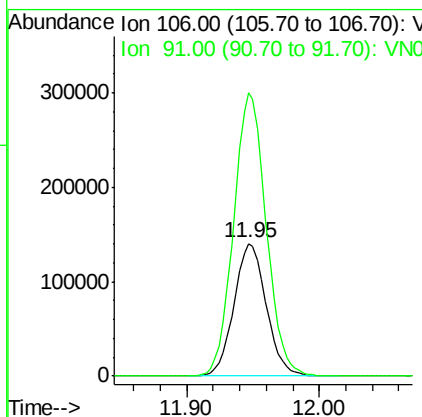
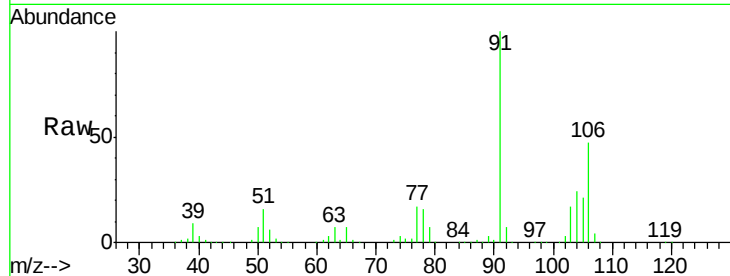
#69
o-Xylene
Concen: 20.015 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		237188		
91	215.7	106.0	318.0		

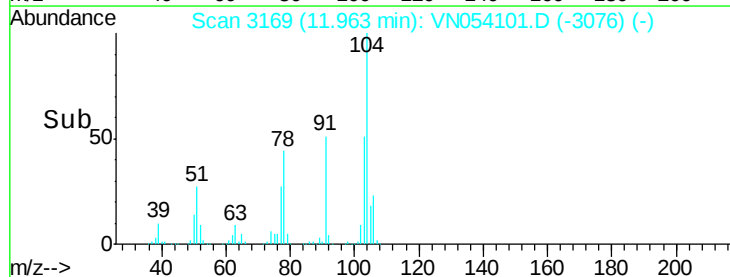
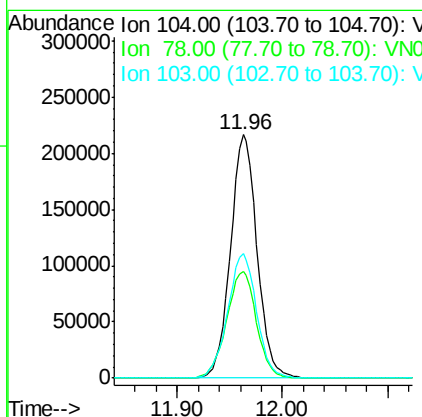
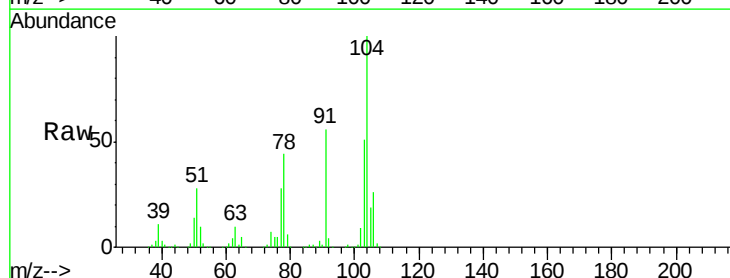
Manual Integrations
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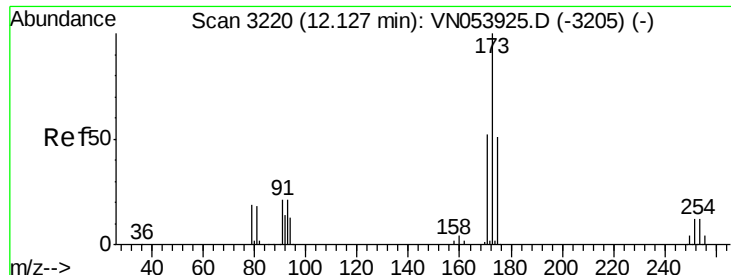
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#70
Styrene
Concen: 20.642 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		376250		
78	49.4	38.1	57.1		
103	55.8	44.6	67.0		





#71

Bromoform

Concen: 19.460 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

VN0305WBSD01

Tot Ion:173 Resp: 93006

Ion Ratio Lower Upper

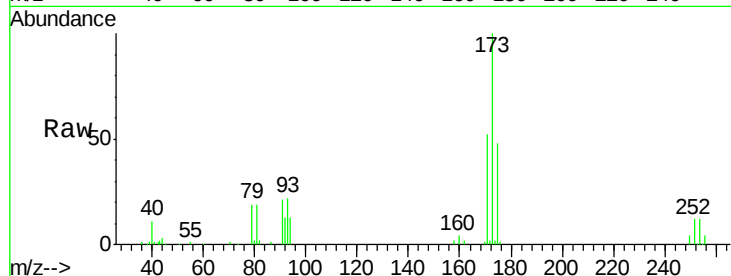
173 100

175 49.2 24.3 72.8

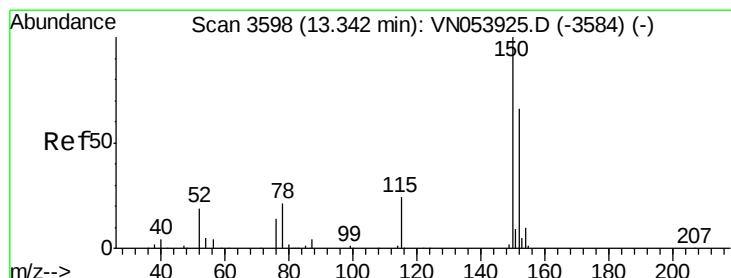
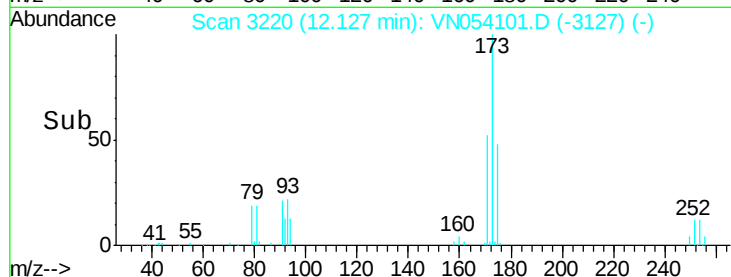
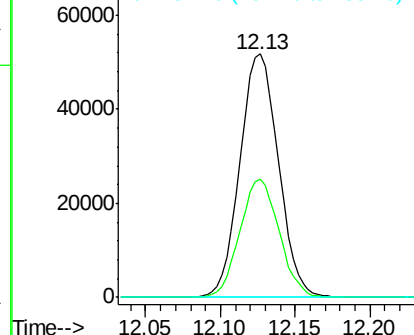
254 0.1 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

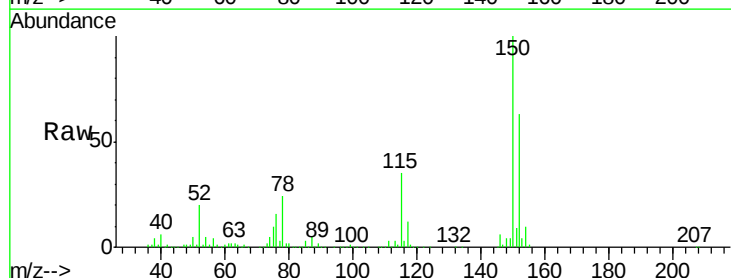
Tgt Ion:152 Resp: 394748

Ion Ratio Lower Upper

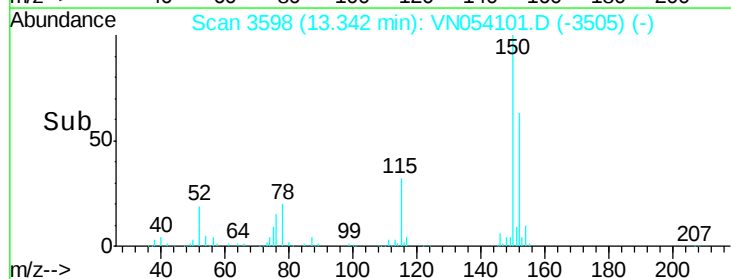
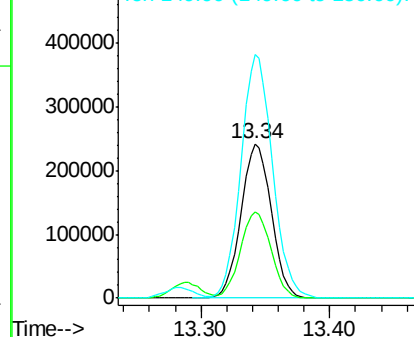
152 100

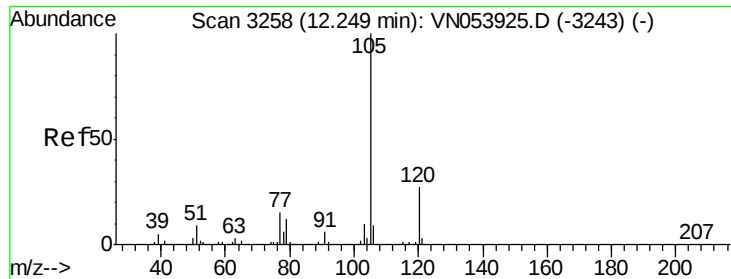
115 56.7 27.2 81.6

150 164.8 0.0 348.2



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





#73

Isopropylbenzene

Concen: 20.070 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

VN0305WBSD01

Tot Ion: 105 Resp: 616731

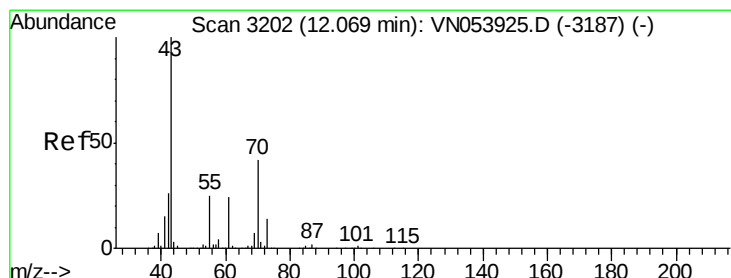
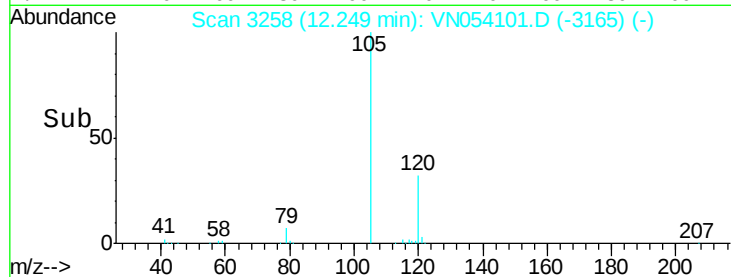
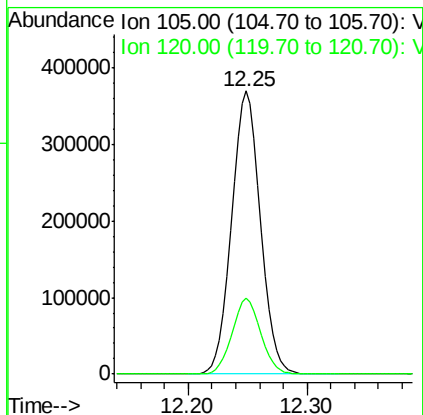
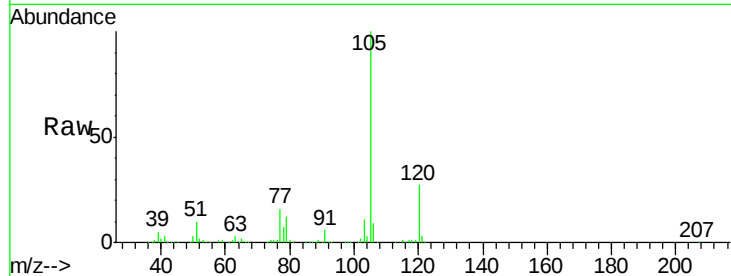
Ion Ratio Lower Upper

105 100

120 26.6 13.5 40.5

Manual Integrations
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#74

N-ethyl acetate

Concen: 21.324 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion: 43 Resp: 171741

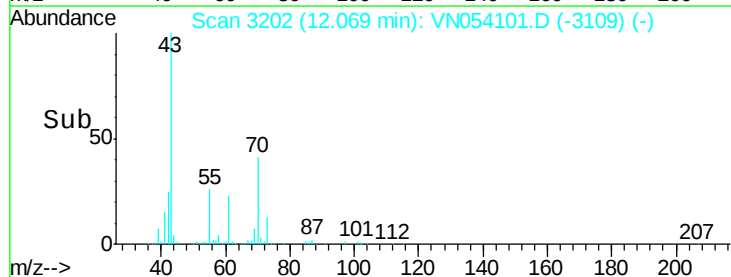
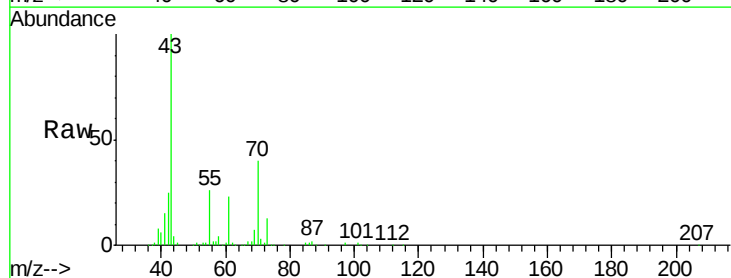
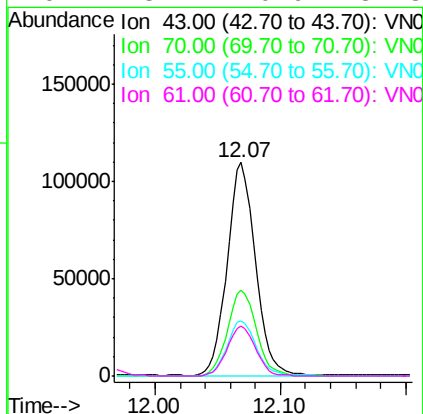
Ion Ratio Lower Upper

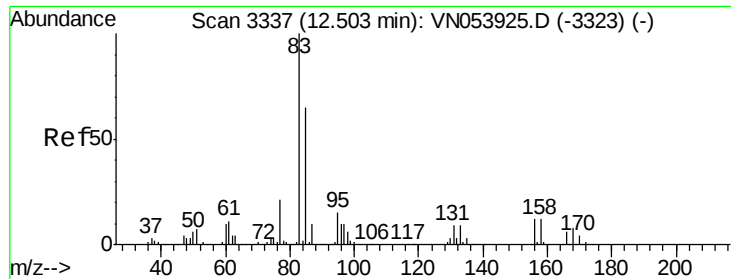
43 100

70 41.2 37.4 56.2

55 27.0 21.4 32.0

61 23.7 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 20.244 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

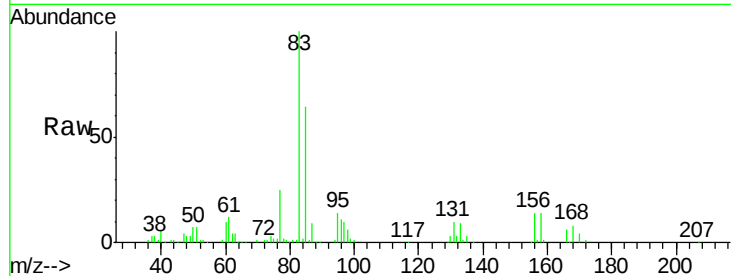
ClientSampleId :

VN0305WBSD01

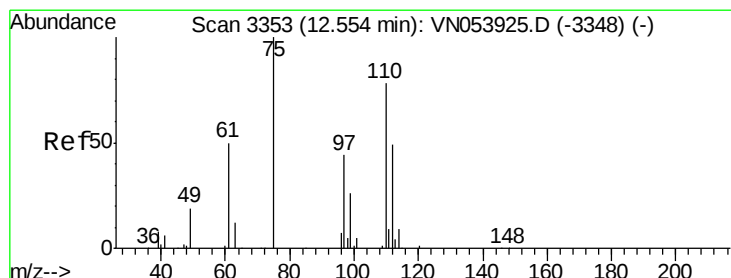
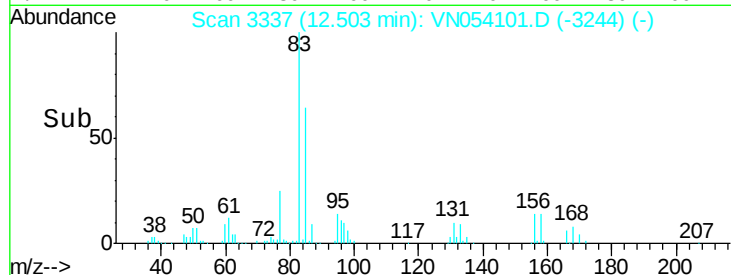
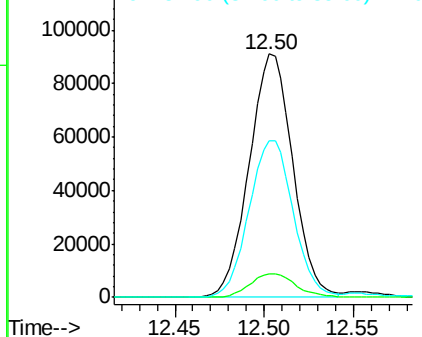
Tot Ion:	83	Resp:	155559
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.3	16.1
85	65.3	31.9	95.9

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN054101.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 20.501 ug/l m

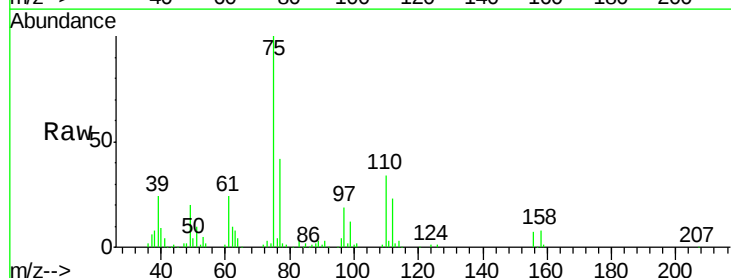
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

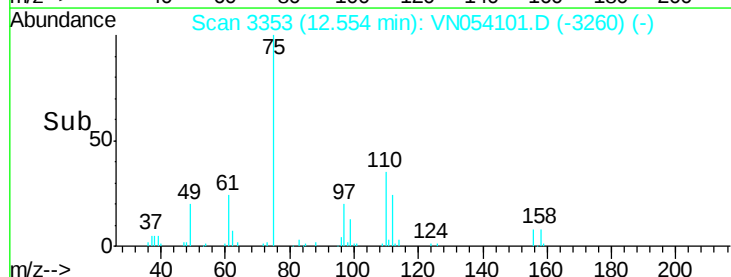
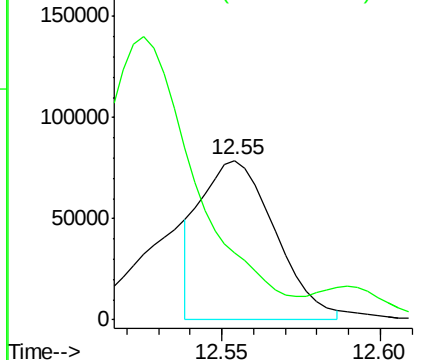
Lab File: VN054101.D

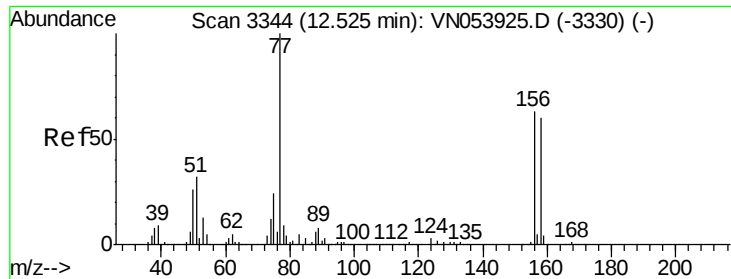
Acq: 5 Mar 2019 16:08

Tgt Ion:	75	Resp:	129819
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054101.D (-3260) (-)





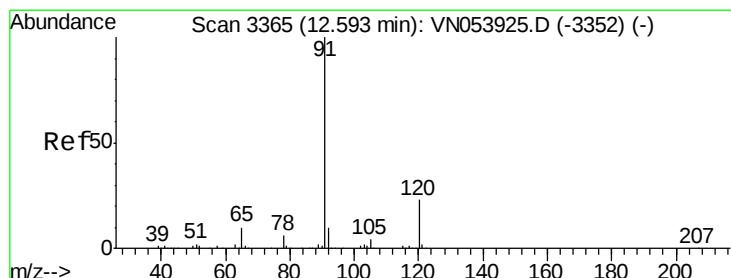
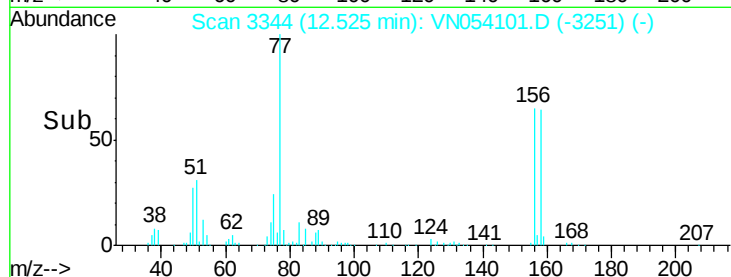
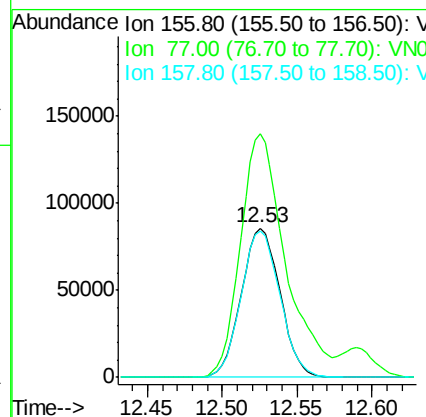
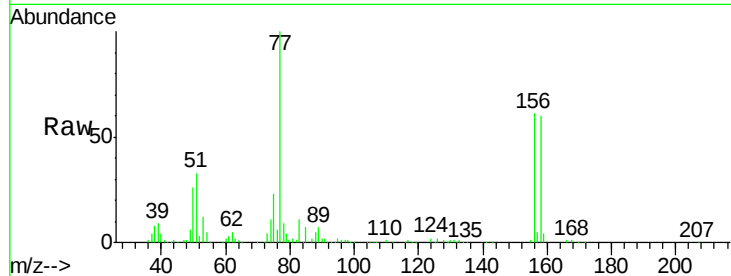
#77
Bromobenzene
Concen: 19.843 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
156	100		
77	189.3	84.0	252.2
158	98.6	48.5	145.6

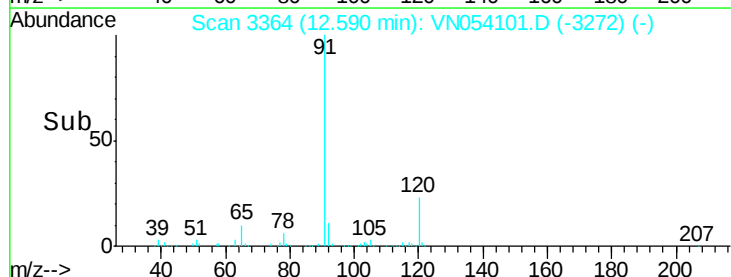
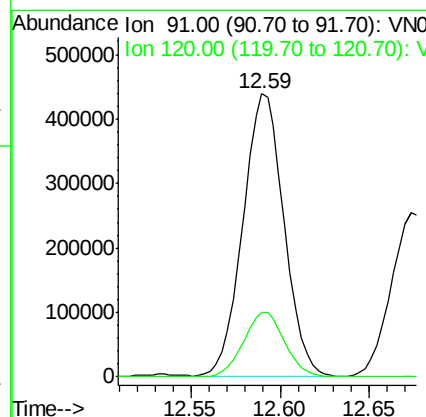
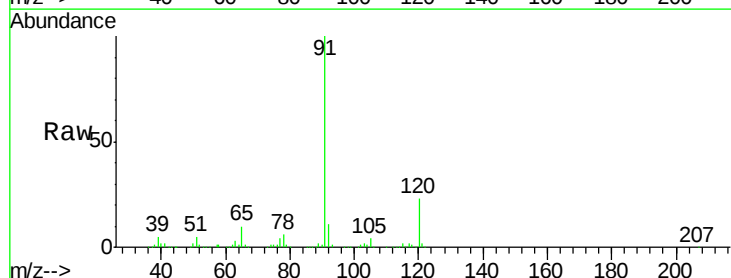
Manual Integrations
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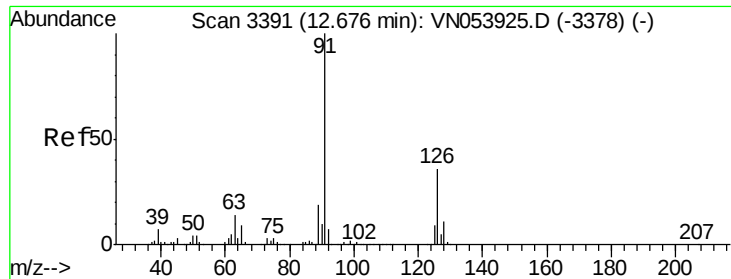
MMDadoda
3/6/2019 9:16:27 AM



#78
n-propylbenzene
Concen: 20.099 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.9	35.9





#79

2-Chlorotoluene

Concen: 20.241 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

ClientSampled :

VN0305WBSD01

Tot Ion: 91 Resp: 424917

Ion Ratio Lower Upper

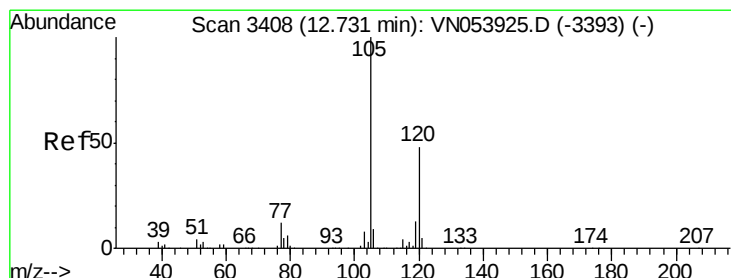
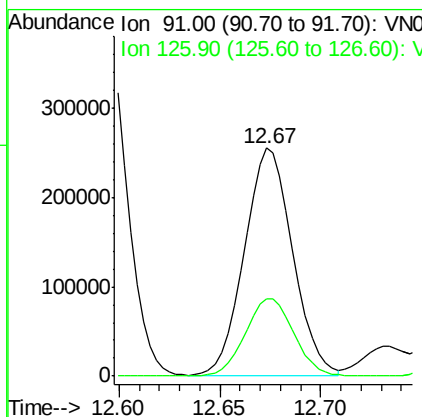
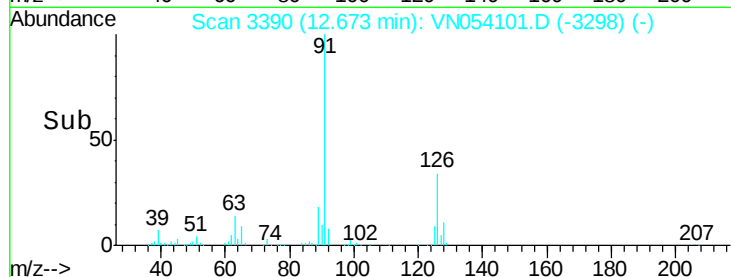
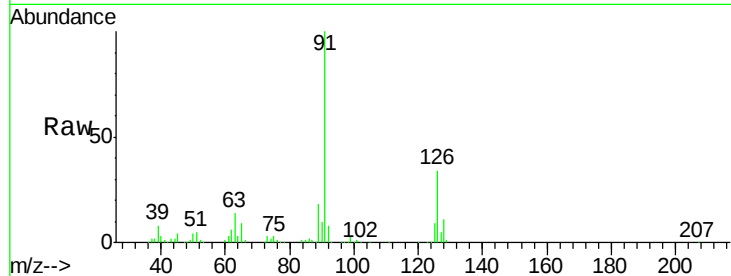
91 100

126 34.5 18.1 54.4

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#80

1,3,5-Trimethylbenzene

Concen: 20.451 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054101.D

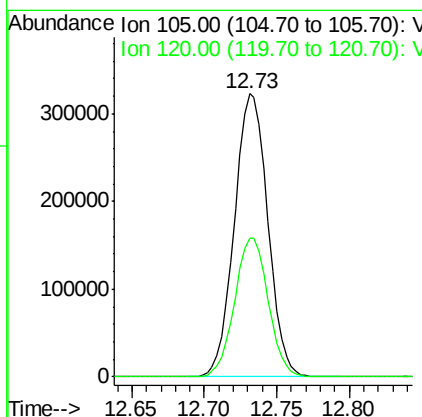
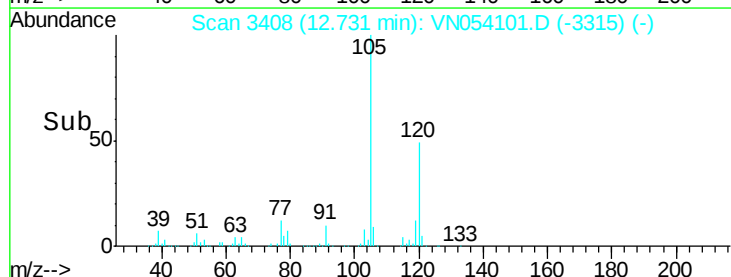
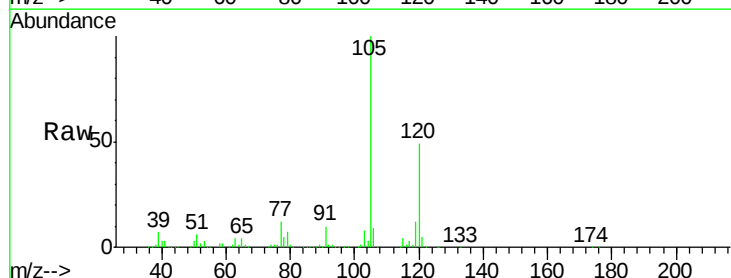
Acq: 5 Mar 2019 16:08

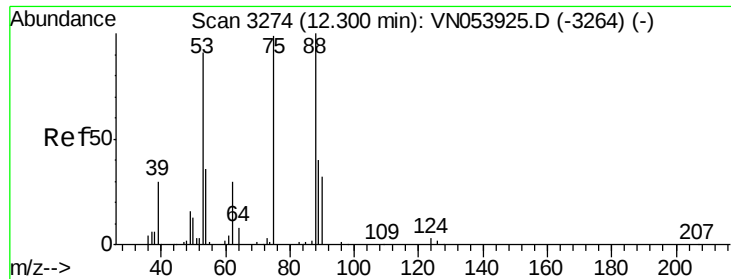
Tgt Ion: 105 Resp: 514478

Ion Ratio Lower Upper

105 100

120 49.3 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 18.302 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

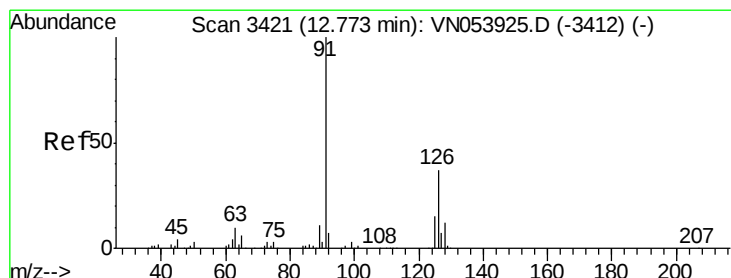
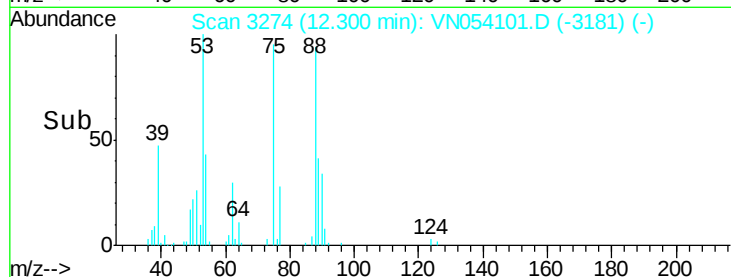
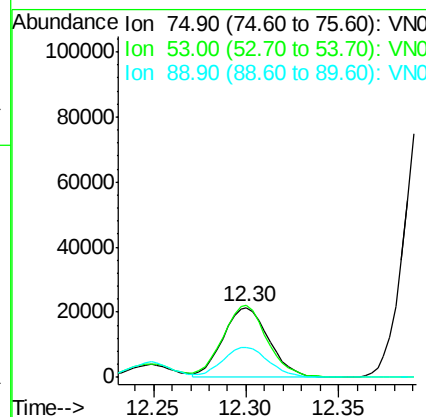
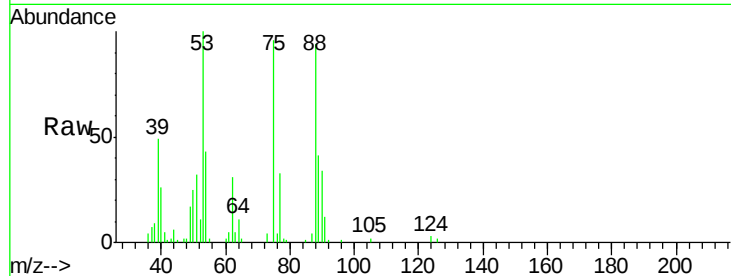
ClientSampleId :

VN0305WBSD01

Tot Ion:	75	Resp:	36668
Ion	Ratio	Lower	Upper
75	100		
53	101.5	68.6	102.8
89	43.5	35.3	52.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.271 ug/l

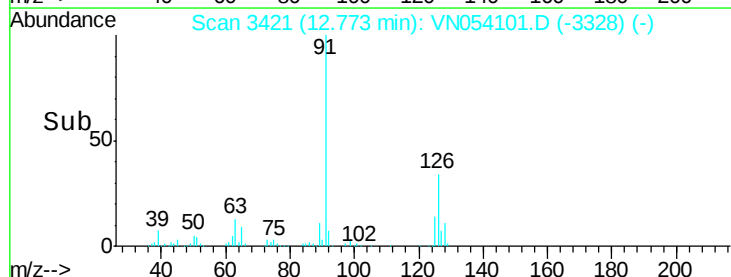
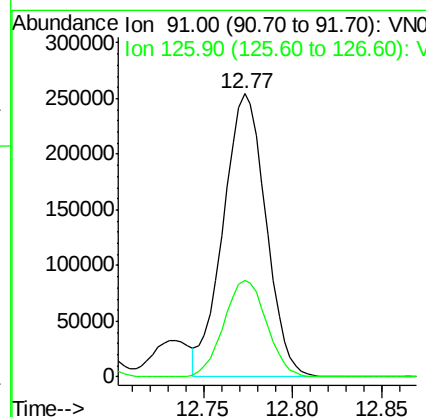
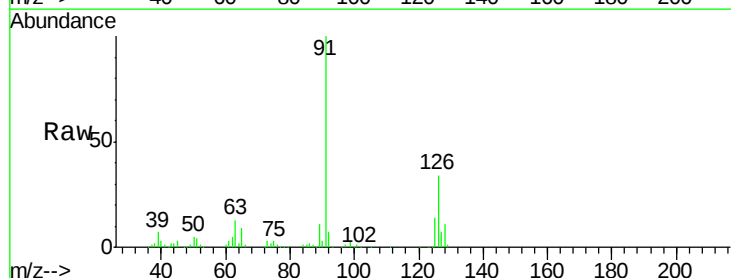
RT: 12.77 min Scan# 3421

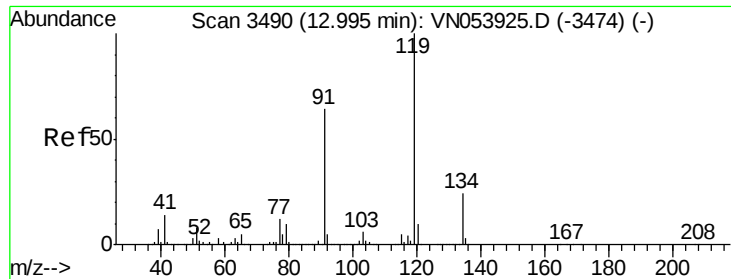
Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion:	91	Resp:	420591
Ion	Ratio	Lower	Upper
91	100		
126	34.4	18.0	54.0





#83

tert-Butylbenzene

Concen: 20.559 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

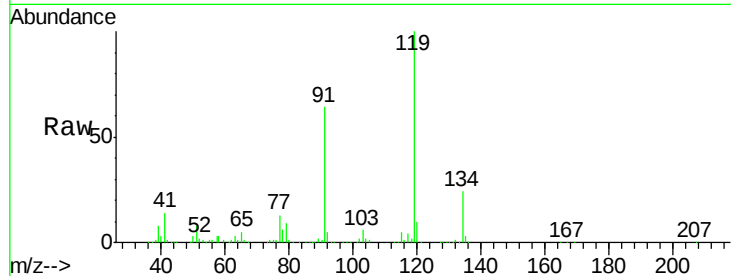
ClientSampled :

VN0305WBSD01

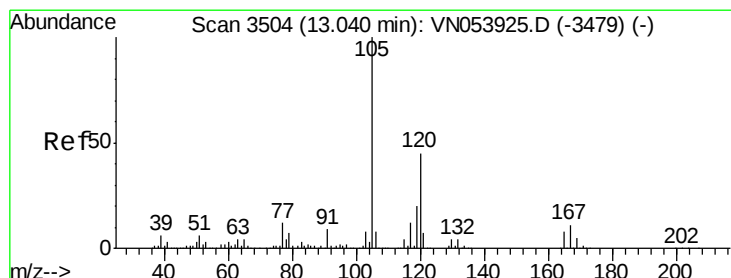
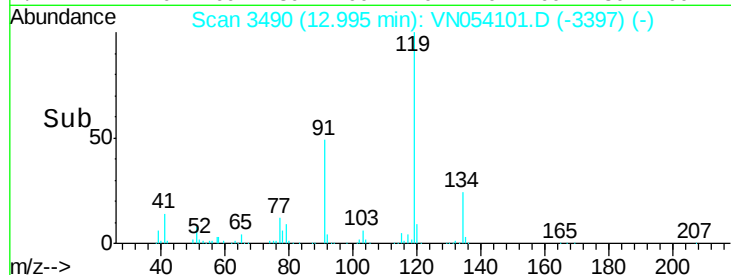
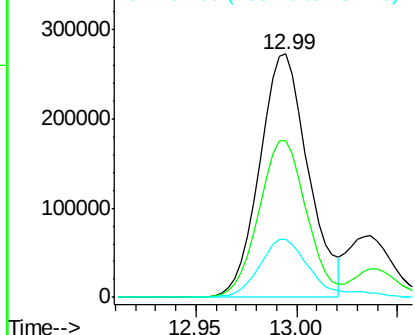
Tot Ion:	119	Resp:	457432
Ion Ratio	Lower	Upper	
119	100		
91	63.1	30.6	91.8
134	25.5	13.0	39.0

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



#84

1,2,4-Trimethylbenzene

Concen: 20.796 ug/l

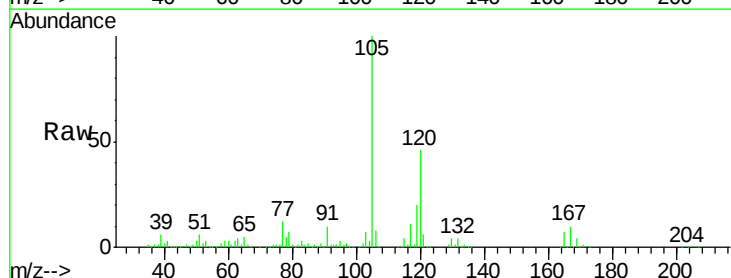
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

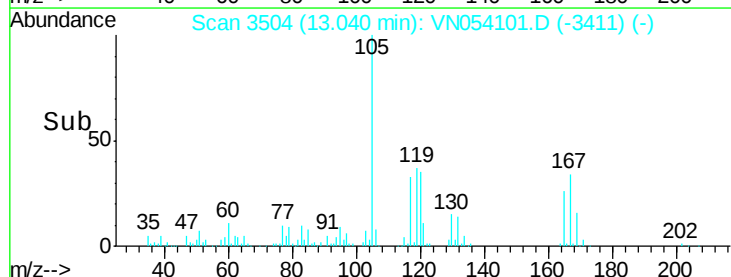
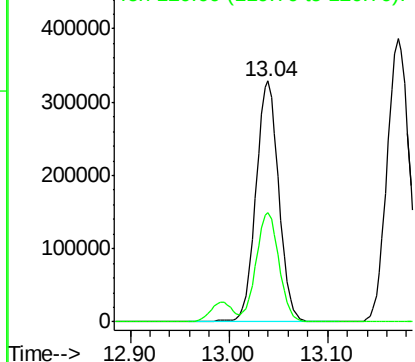
Lab File: VN054101.D

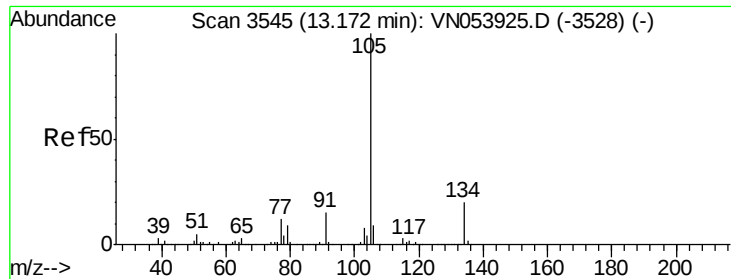
Acq: 5 Mar 2019 16:08

Tgt Ion:	105	Resp:	522272
Ion Ratio	Lower	Upper	
105	100		
120	45.6	23.2	69.5



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





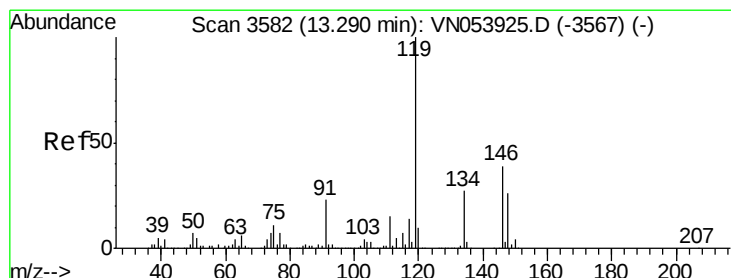
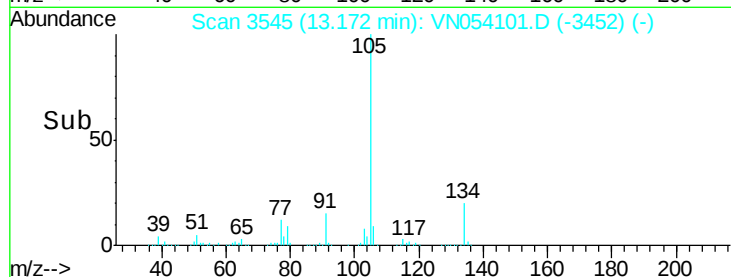
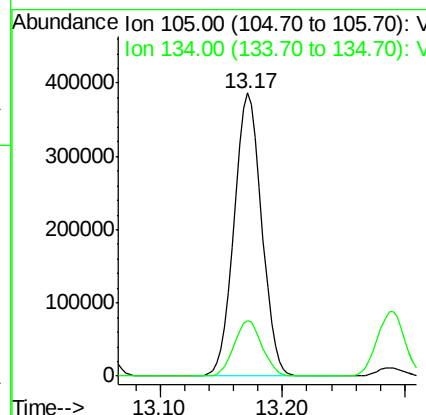
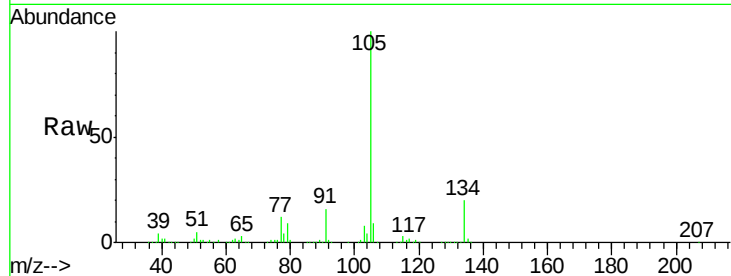
#85
 sec-Butylbenzene
 Concen: 20.039 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.4	31.1

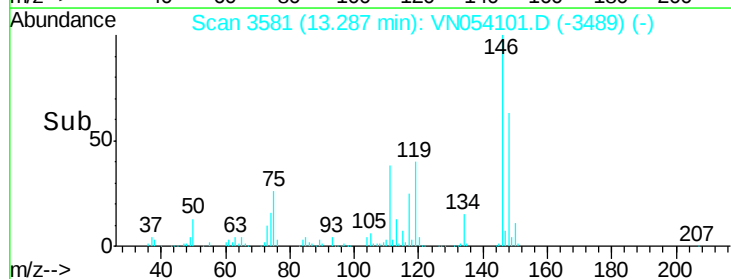
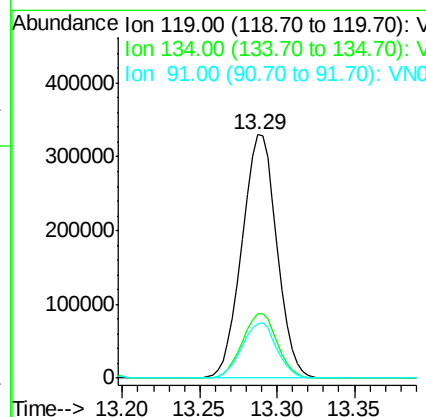
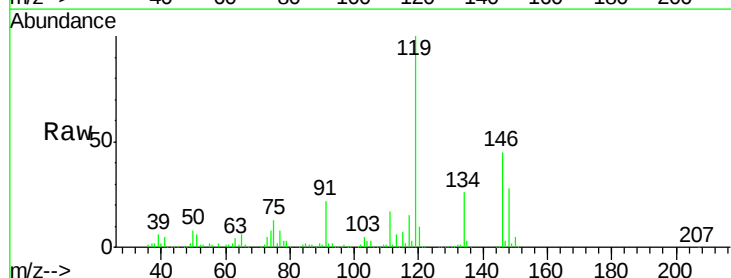
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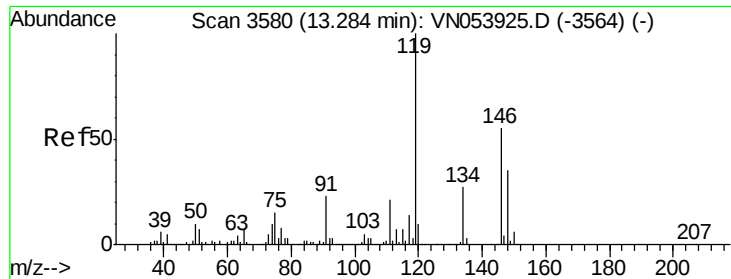
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#86
 p-Isopropyltoluene
 Concen: 20.135 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.5	40.4
91	22.8	10.9	32.6





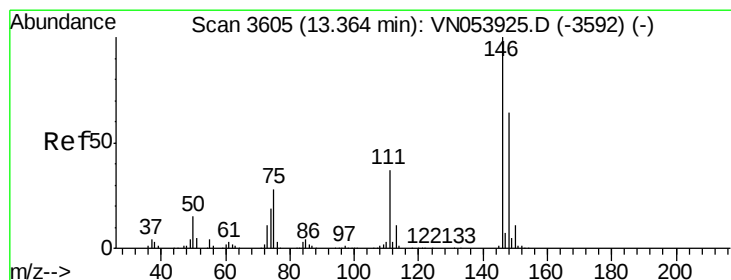
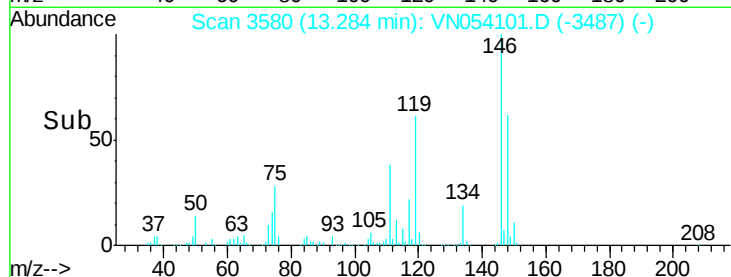
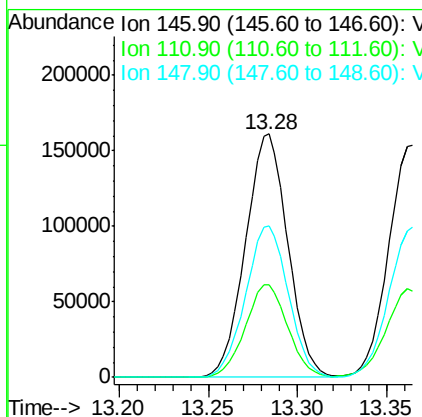
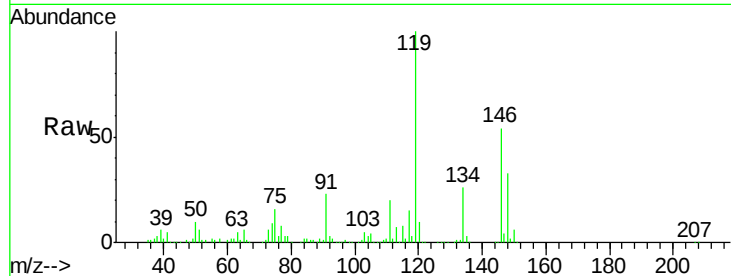
#87
 1,3-Dichlorobenzene
 Concen: 19.846 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Instrument :
 MSVOA_N
 ClientSampled :
 VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.7	56.1
148	62.8	32.0	96.2

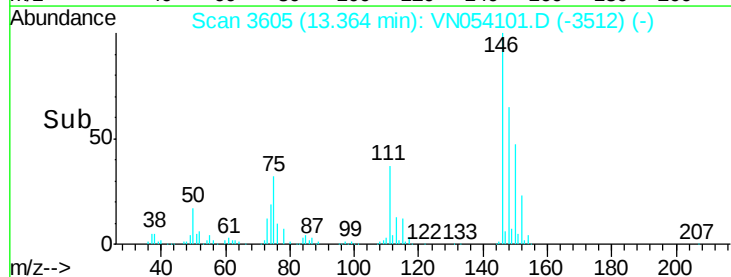
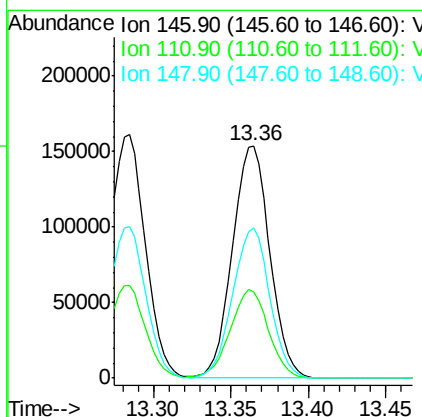
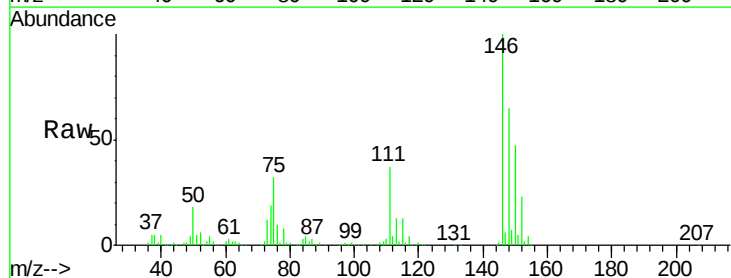
Manual Integrations
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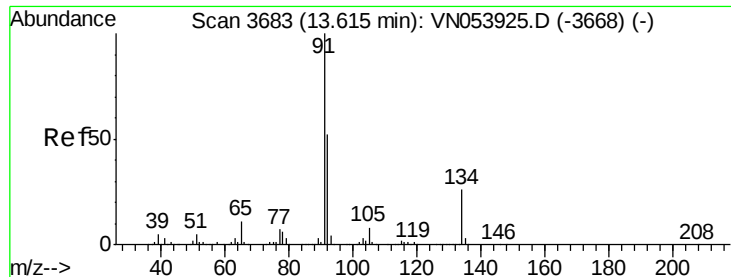
MMDadoda
 3/6/2019 9:16:27 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.718 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054101.D
 Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	18.0	54.0
148	63.8	32.1	96.5





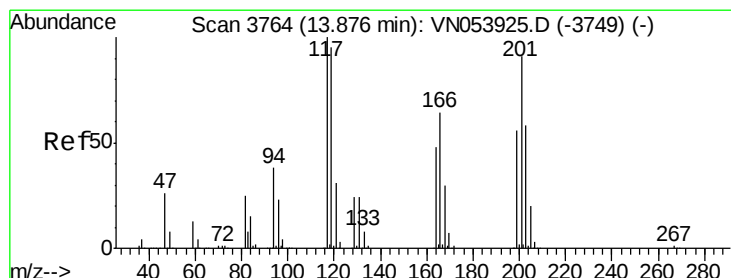
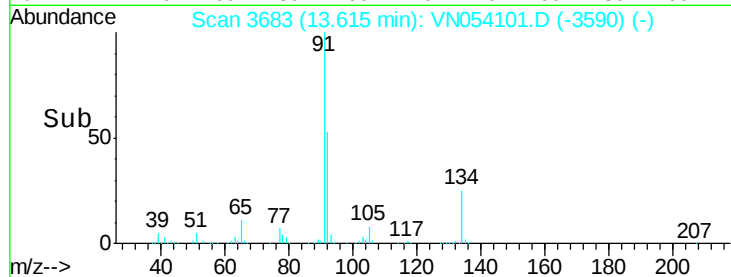
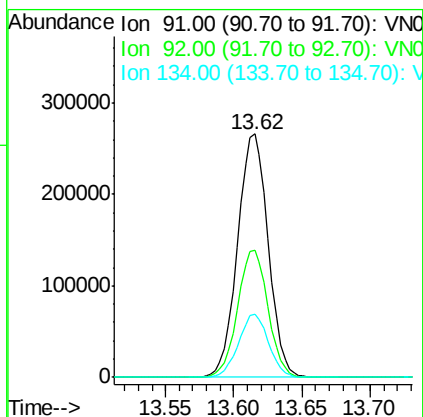
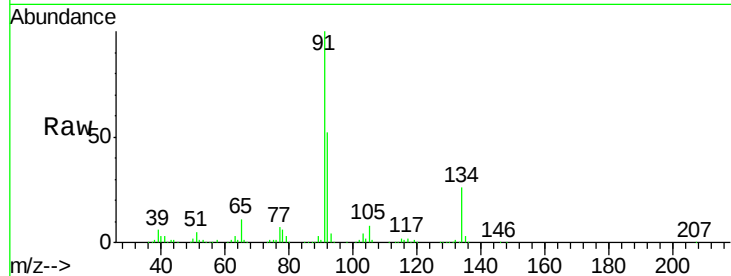
#89
n-Butylbenzene
Concen: 19.134 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Instrument :
MSVOA_N
ClientSampled :
VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.1	78.2
134	25.4	13.6	40.8

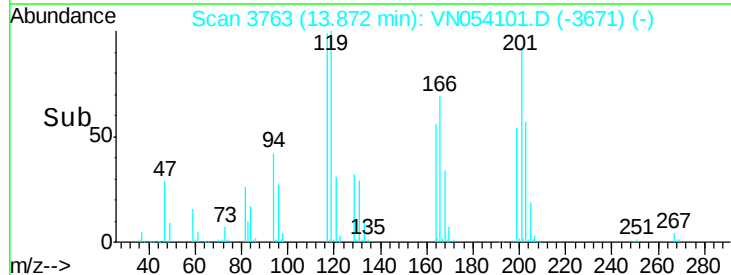
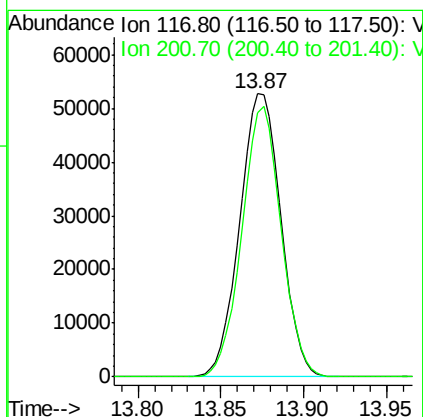
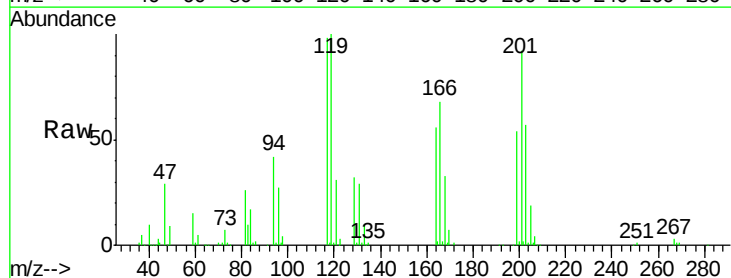
Manual Integrations
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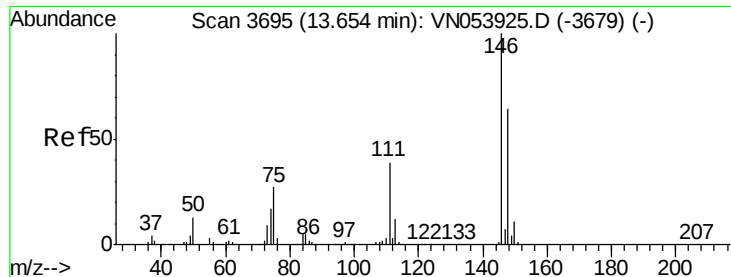
MMDadoda
3/6/2019 9:16:27 AM



#90
Hexachloroethane
Concen: 18.303 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054101.D
Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.9	48.0	144.2





#91

1,2-Dichlorobenzene

Concen: 20.360 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

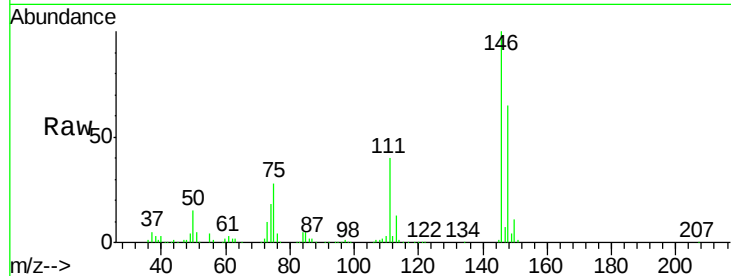
ClientSampled :

VN0305WBSD01

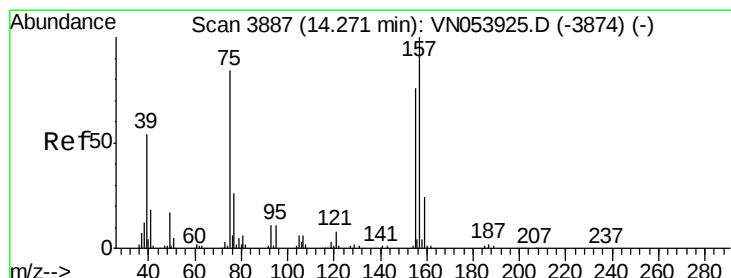
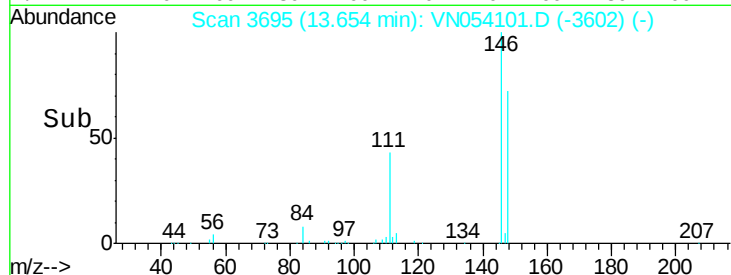
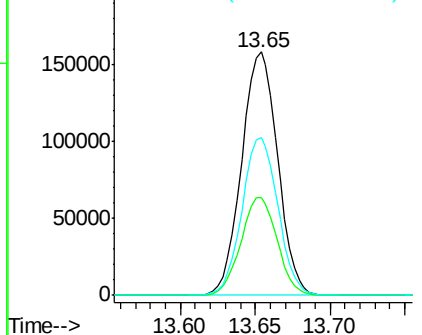
Tot Ion:	146	Resp:	265990
Ion Ratio	Lower	Upper	
146	100		
111	40.3	19.1	57.5
148	64.5	32.1	96.5

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.274 ug/l

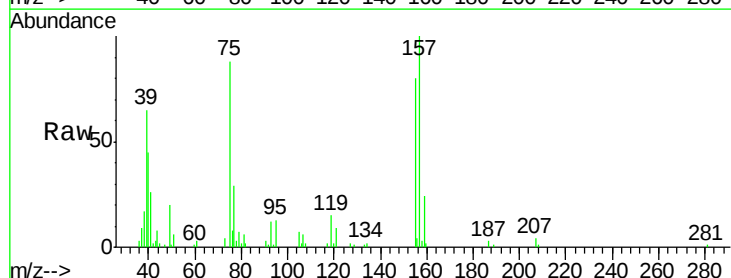
RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

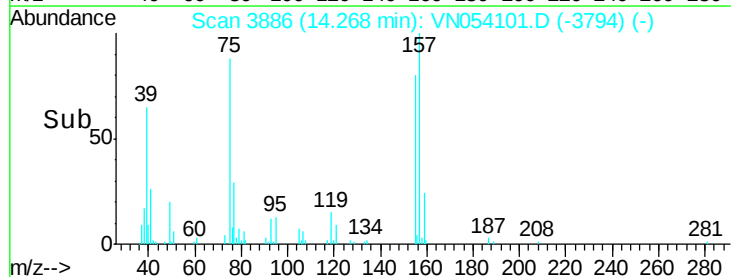
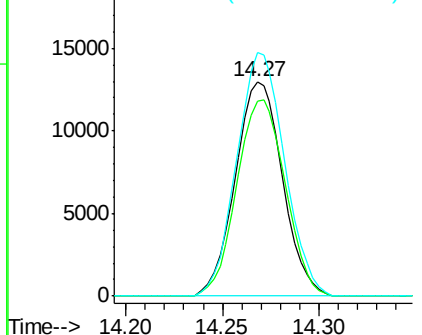
Lab File: VN054101.D

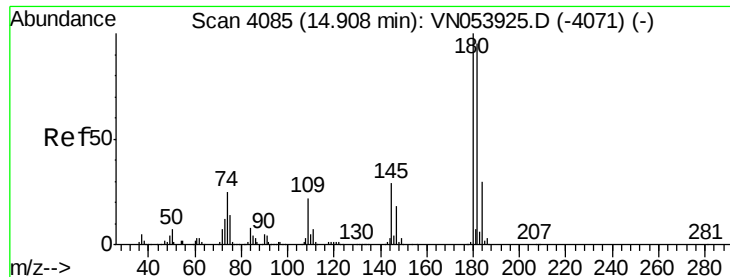
Acq: 5 Mar 2019 16:08

Tgt Ion:	75	Resp:	22016
Ion Ratio	Lower	Upper	
75	100		
155	93.6	49.5	148.5
157	115.0	64.8	194.6



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 17.637 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

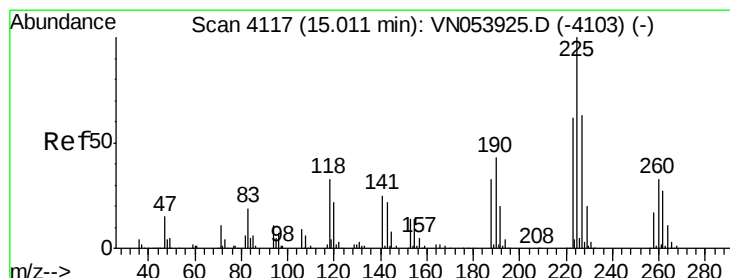
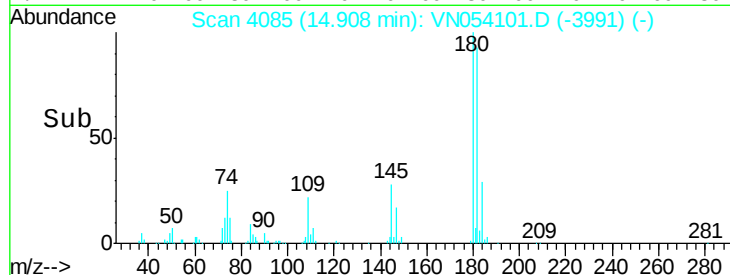
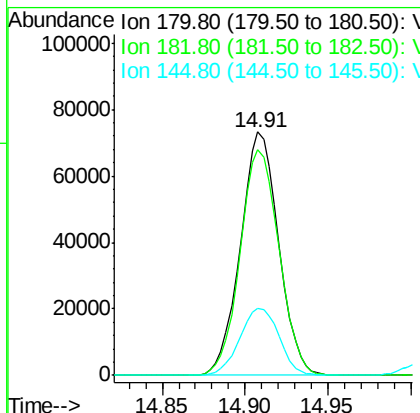
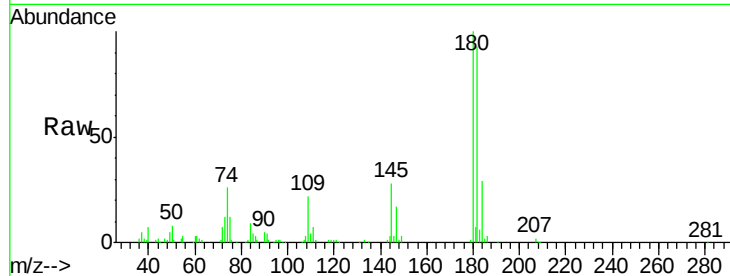
ClientSampleId :

VN0305WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.6	145.9
145	28.5	13.8	41.3

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#94

Hexachlorobutadiene

Concen: 17.992 ug/l

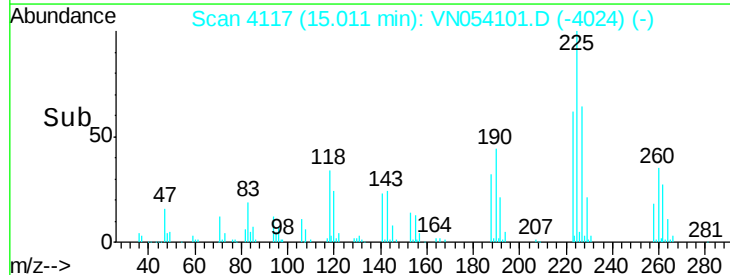
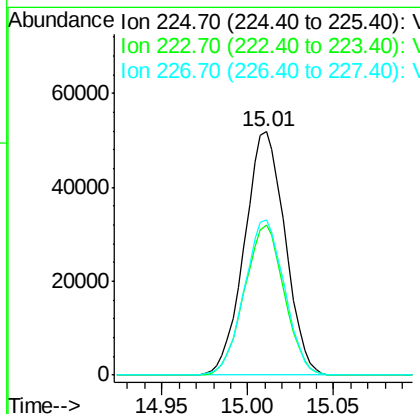
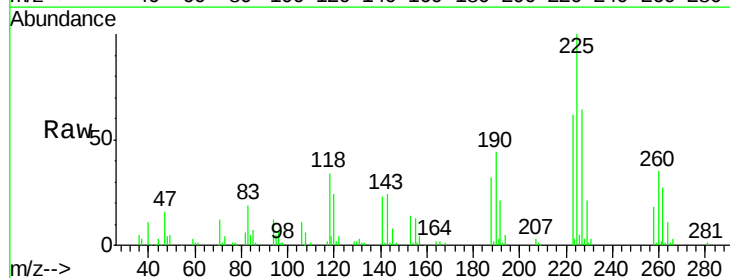
RT: 15.01 min Scan# 4117

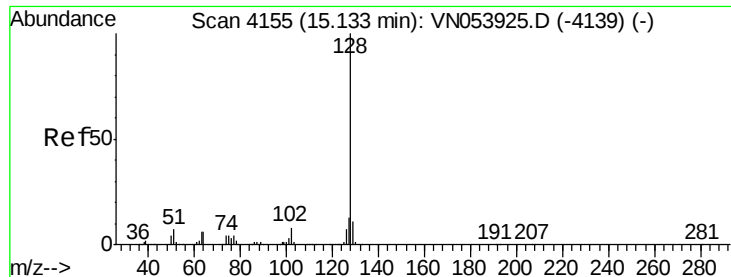
Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.4	30.9	92.5
227	63.1	32.5	97.4





#95

Naphthalene

Concen: 17.222 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Instrument :

MSVOA_N

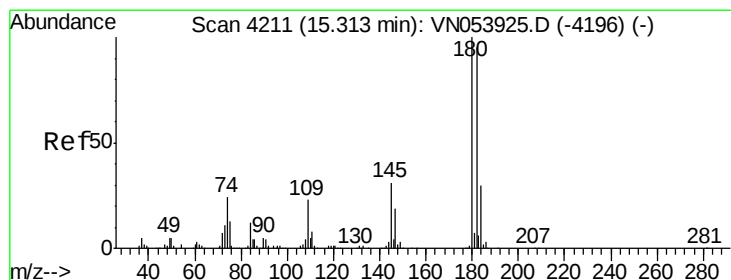
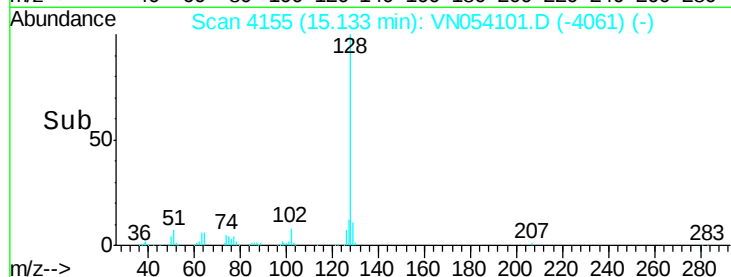
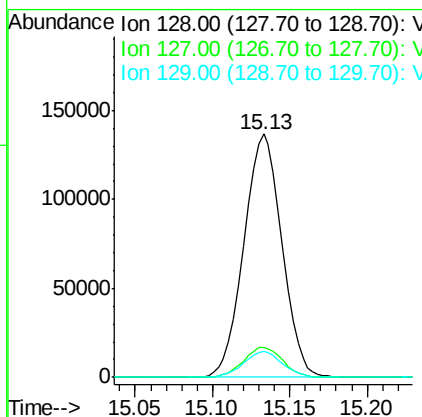
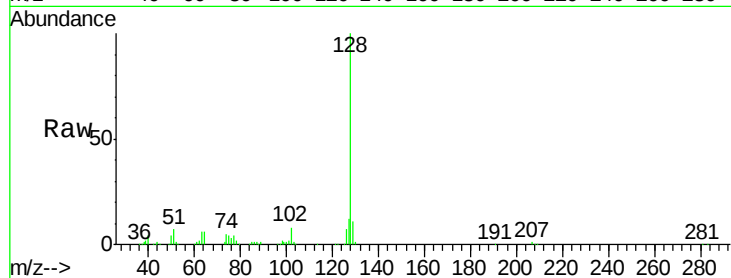
ClientSampleId :

VN0305WBSD01

Tot Ion:	128	Resp:	234002
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.2
129	10.8	8.6	12.8

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#96

1,2,3-Trichlorobenzene

Concen: 17.711 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054101.D

Acq: 5 Mar 2019 16:08

Tgt Ion:	180	Resp:	116035
Ion Ratio	Lower	Upper	
180	100		
182	97.7	47.3	141.8
145	30.9	14.4	43.0

