

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021819\
 Data File : VN053835.D
 Acq On : 18 Feb 2019 11:37
 Operator : JC/SP
 Sample : VN0218WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0218WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/19/2019 12:31:22 PM

Quant Time: Feb 19 03:28:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	576867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	922658	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	789067	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	366397	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	299826	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
35) Dibromofluoromethane	7.59	113	288045	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
50) Toluene-d8	10.09	98	1045186	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
62) 4-Bromofluorobenzene	12.40	95	343068	46.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	111434	17.357	ug/l	99
3) Chloromethane	2.06	50	121179	17.694	ug/l	99
4) Vinyl Chloride	2.19	62	131373	19.761	ug/l	99
5) Bromomethane	2.58	94	93690	21.553	ug/l	97
6) Chloroethane	2.71	64	85120	22.405	ug/l	97
7) Trichlorofluoromethane	3.02	101	183610	20.366	ug/l	98
8) Diethyl Ether	3.42	74	63111	19.168	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.77	101	108570	19.472	ug/l	98
10) Methyl Iodide	3.96	142	153912	17.587	ug/l	100
11) Tert butyl alcohol	4.78	59	37530	109.579	ug/l	95
12) 1,1-Dichloroethene	3.74	96	99308	18.590	ug/l	97
13) Acrolein	3.61	56	14667	78.655	ug/l	95
14) Allyl chloride	4.33	41	157652	18.535	ug/l	98
15) Acrylonitrile	4.99	53	193722	104.774	ug/l	100
16) Acetone	3.81	43	147193	99.160	ug/l	96
17) Carbon Disulfide	4.06	76	261551	15.724	ug/l	99
18) Methyl Acetate	4.33	43	104120	23.685	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	274319	20.257	ug/l	98
20) Methylene Chloride	4.55	84	118072	18.959	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	104750	18.176	ug/l	98
22) Diisopropyl ether	5.95	45	310503	19.702	ug/l	97
23) Vinyl Acetate	5.90	43	1027027	94.201	ug/l	99
24) 1,1-Dichloroethane	5.85	63	202843	19.297	ug/l	99
25) 2-Butanone	6.84	43	209999	99.193	ug/l	98
26) 2,2-Dichloropropane	6.83	77	152713	19.031	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	123124	19.213	ug/l	99
28) Bromochloromethane	7.20	49	94049	20.617	ug/l	95
29) Tetrahydrofuran	7.21	42	139915	102.921	ug/l	97
30) Chloroform	7.37	83	205736	19.744	ug/l	99
31) Cyclohexane	7.65	56	174620	17.733	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	168983	19.486	ug/l	99
36) 1,1-Dichloropropene	7.79	75	145283	17.468	ug/l	98
37) Ethyl Acetate	6.93	43	90405	19.462	ug/l	97
38) Carbon Tetrachloride	7.78	117	152092	18.152	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	167904	17.016	ug/l	98
40) Benzene	8.04	78	460126	17.940	ug/l	99
41) Methacrylonitrile	7.18	41	51599	19.875	ug/l	90
42) 1,2-Dichloroethane	8.12	62	139219	18.281	ug/l	99
43) Isopropyl Acetate	8.17	43	169088	18.849	ug/l #	87
44) Trichloroethene	8.84	130	131529	18.013	ug/l	96
45) 1,2-Dichloropropane	9.12	63	122730	18.709	ug/l	98
46) Dibromomethane	9.21	93	73257	18.525	ug/l	96
47) Bromodichloromethane	9.40	83	156838	19.075	ug/l	99
48) Methyl methacrylate	9.20	41	77555	18.111	ug/l	96
49) 1,4-Dioxane	9.20	88	23130	397.296	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	433791	98.403	ug/l	99
52) Toluene	10.16	92	275930	18.127	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	151623	18.416	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	177270	18.170	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	106628	19.440	ug/l	98
56) Ethyl methacrylate	10.43	69	120261	18.533	ug/l	98
57) 1,3-Dichloropropane	10.71	76	174031	18.565	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	271828	73.392	ug/l	99
59) 2-Hexanone	10.75	43	268584	89.748	ug/l	99
60) Dibromochloromethane	10.90	129	120311	19.451	ug/l	98
61) 1,2-Dibromoethane	11.01	107	100909	18.587	ug/l	100
64) Tetrachloroethene	10.63	164	124903	18.466	ug/l	98
65) Chlorobenzene	11.43	112	309321	18.455	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	115514	19.734	ug/l	99
67) Ethyl Benzene	11.51	91	499932	18.158	ug/l	100
68) m/p-Xylenes	11.62	106	392061	37.310	ug/l	99
69) o-Xylene	11.95	106	192984	19.010	ug/l	98
70) Styrene	11.96	104	305527	18.568	ug/l	99
71) Bromoform	12.13	173	83478	20.802	ug/l #	97
73) Isopropylbenzene	12.25	105	507816	19.715	ug/l	100
74) N-amyl acetate	12.07	43	114130	18.427	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	123739	20.073	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	110643m	23.510	ug/l	
77) Bromobenzene	12.53	156	134387	19.359	ug/l	97
78) n-propylbenzene	12.59	91	566931	19.040	ug/l	100
79) 2-Chlorotoluene	12.67	91	343986	19.472	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	422887	19.799	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	30690	18.337	ug/l	98
82) 4-Chlorotoluene	12.77	91	338313	18.663	ug/l	99
83) tert-Butylbenzene	12.99	119	389343	20.625	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	424573	19.511	ug/l	99
85) sec-Butylbenzene	13.17	105	516711	20.114	ug/l	99
86) p-Isopropyltoluene	13.29	119	440093	19.588	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	231988	18.590	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	226850	18.377	ug/l	99
89) n-Butylbenzene	13.62	91	350146	18.006	ug/l	99
90) Hexachloroethane	13.87	117	79521	21.458	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	228522	19.129	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18533	21.096	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	111486	16.271	ug/l	99
94) Hexachlorobutadiene	15.01	225	85316	19.994	ug/l	99
95) Naphthalene	15.13	128	218936	14.866	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	112075	17.629	ug/l	99

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

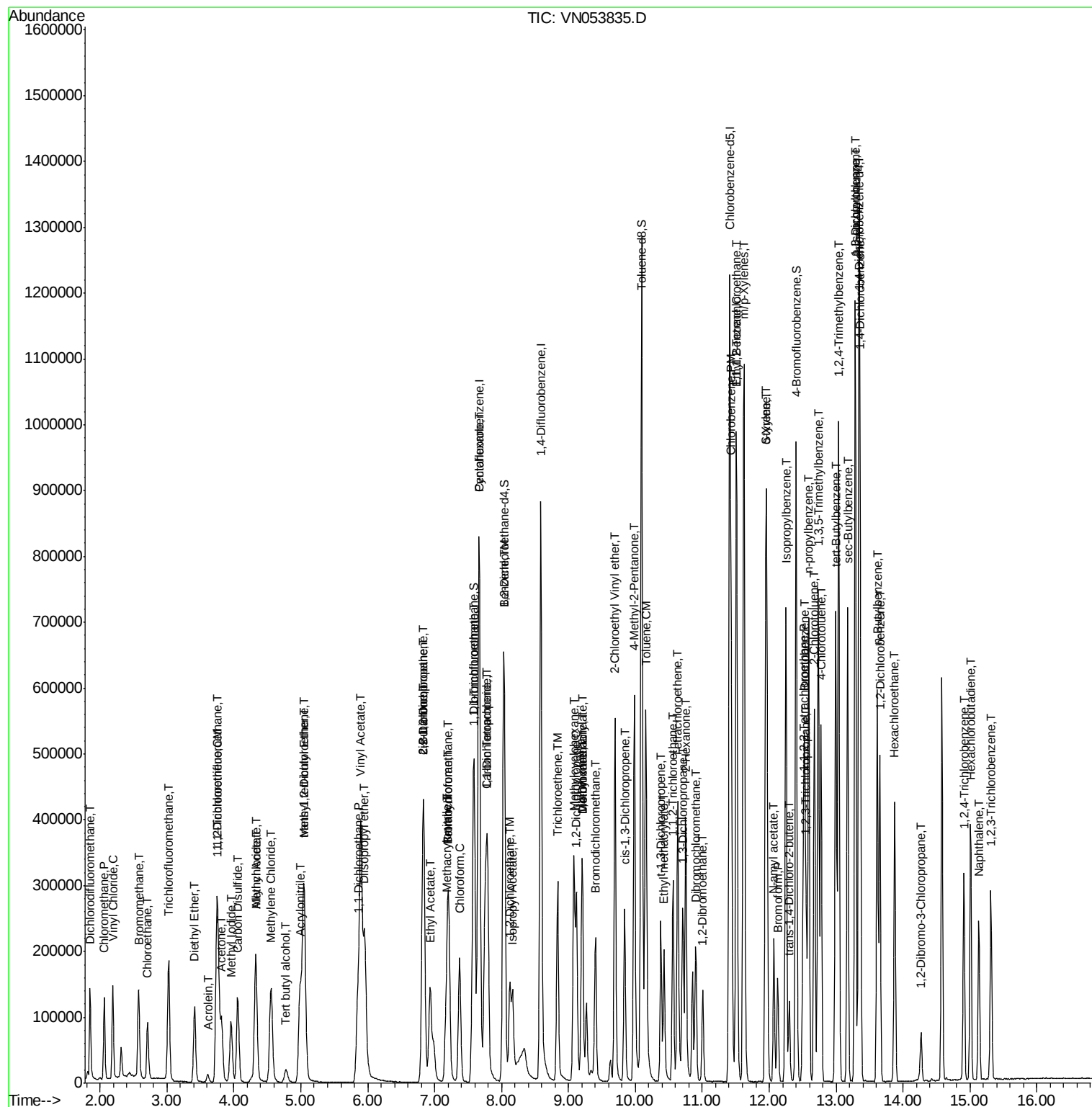
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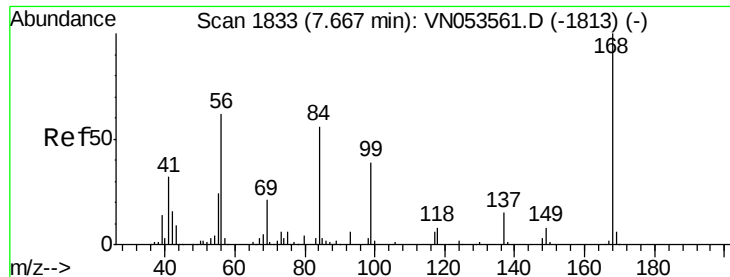
Instrument :
MSVOA_N
Client Sample Id :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion:168 Resp: 576867

Ion Ratio Lower Upper

168 100

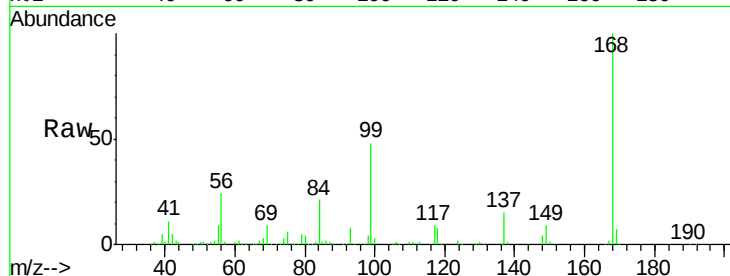
99 46.2 39.1 58.7

Manual Integrations

APPROVED

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2/19/2019 12:31:22 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

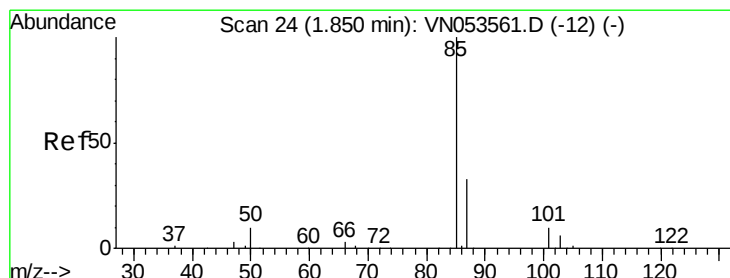
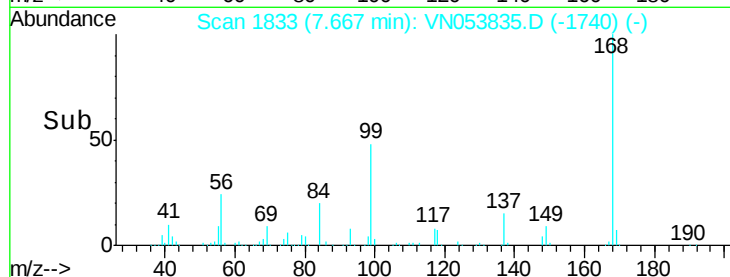
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50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 17.357 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053835.D

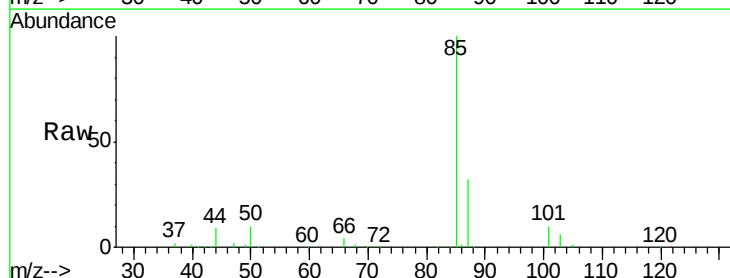
Acq: 18 Feb 2019 11:37

Tgt Ion: 85 Resp: 111434

Ion Ratio Lower Upper

85 100

87 32.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

80000

60000

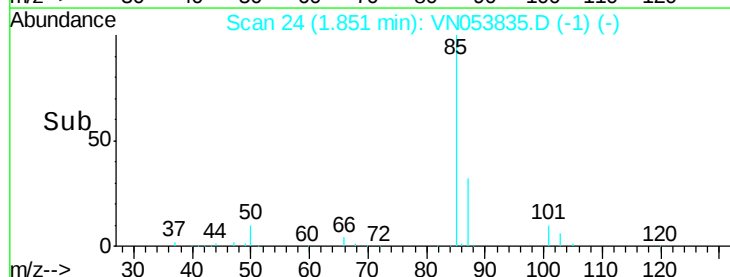
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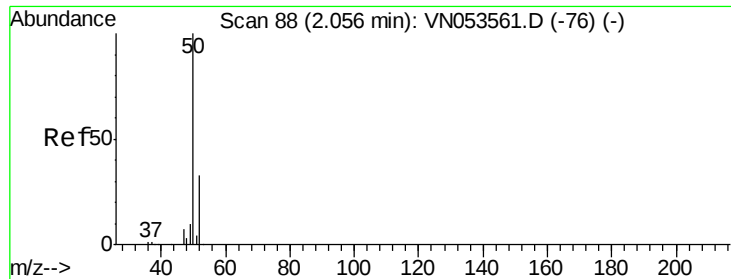
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 17.694 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.01 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion: 50 Resp: 121179

Ion Ratio Lower Upper

50 100

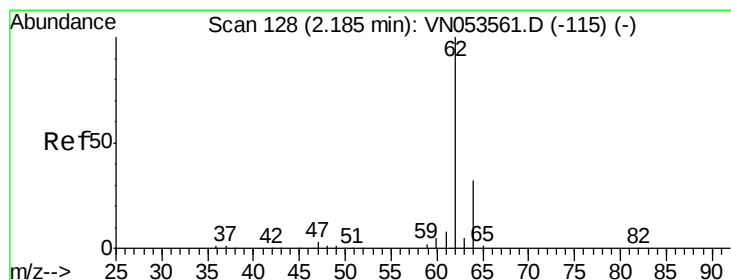
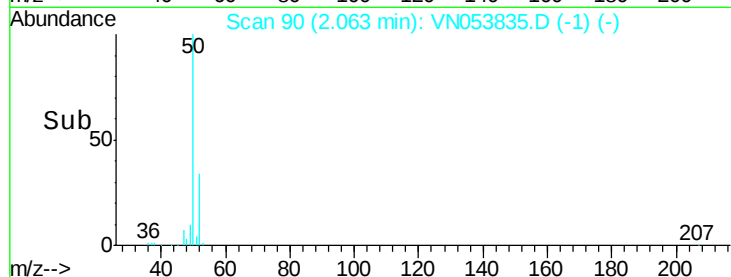
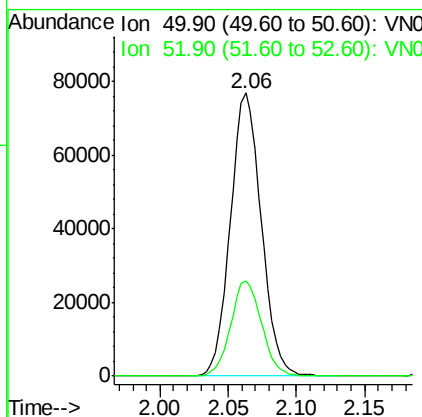
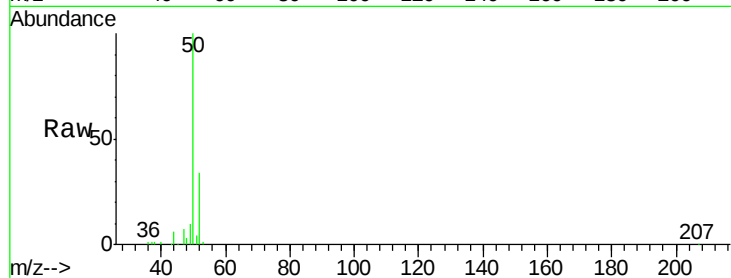
52 33.7 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.761 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.01 min

Lab File: VN053835.D

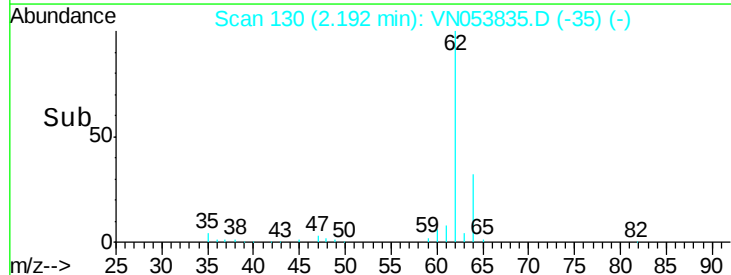
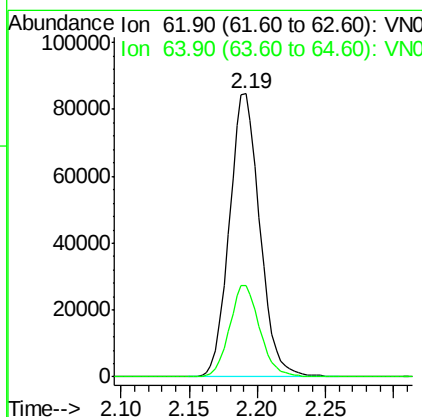
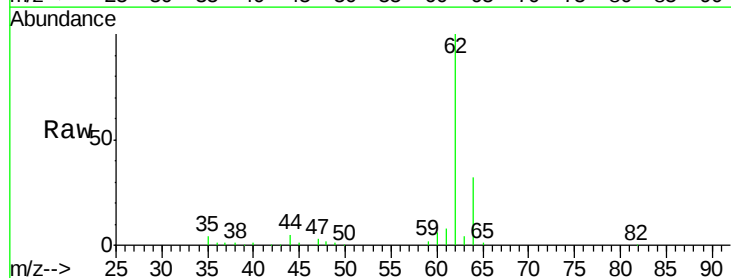
Acq: 18 Feb 2019 11:37

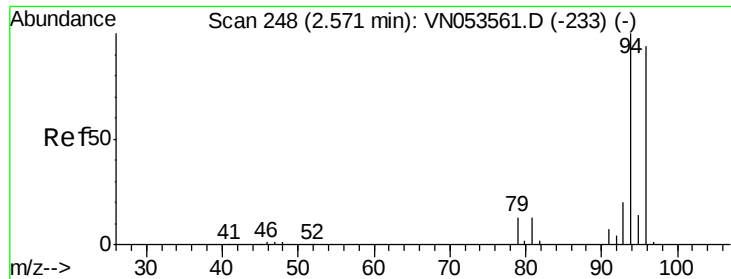
Tgt Ion: 62 Resp: 131373

Ion Ratio Lower Upper

62 100

64 32.3 25.4 38.2





#5

Bromomethane

Concen: 21.553 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

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ClientSampleId :

VN0218WBSD01

Tot Ion: 94 Resp: 93690

Ion Ratio Lower Upper

94 100

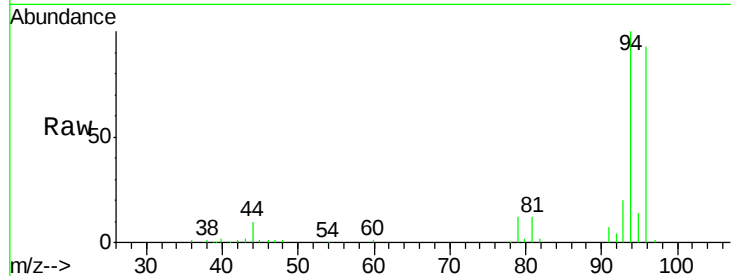
96 93.0 76.8 115.2

Manual Integrations

APPROVED

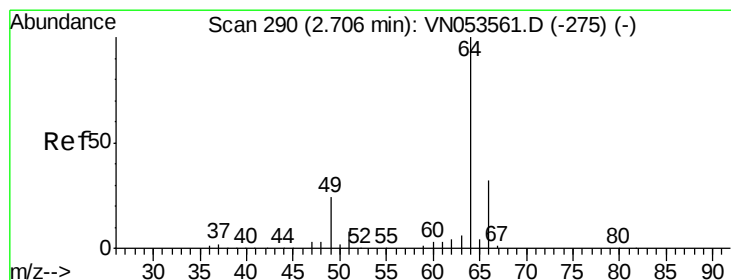
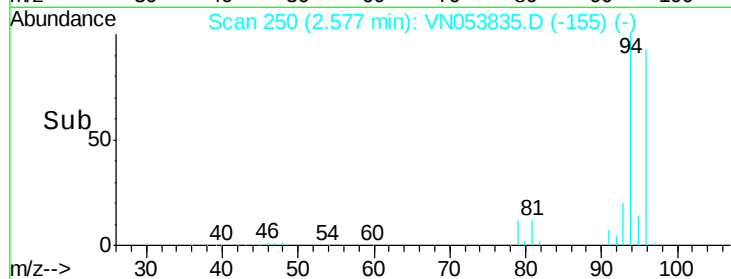
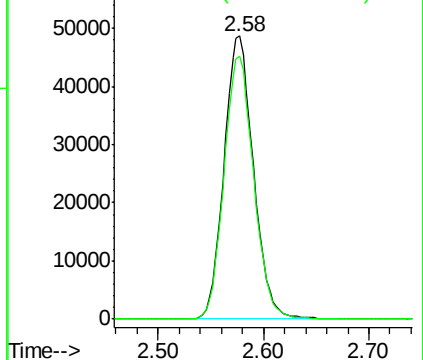
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 22.405 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN053835.D

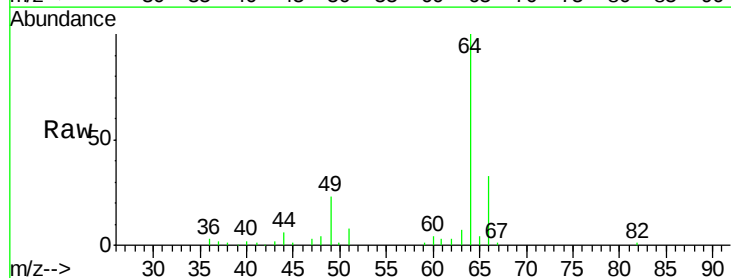
Acq: 18 Feb 2019 11:37

Tgt Ion: 64 Resp: 85120

Ion Ratio Lower Upper

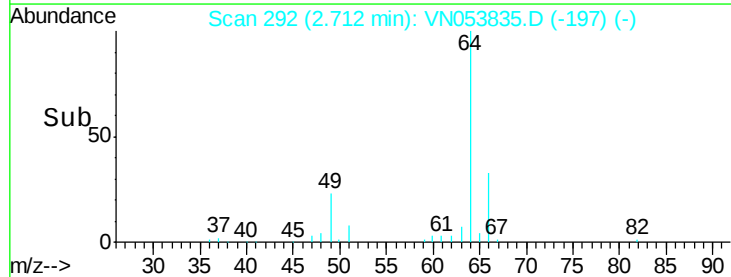
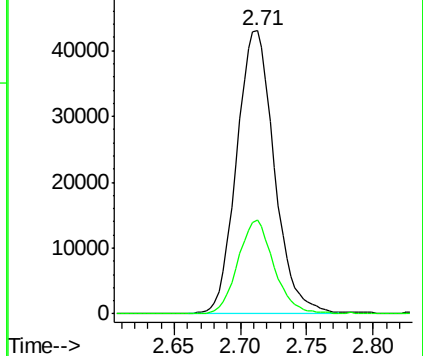
64 100

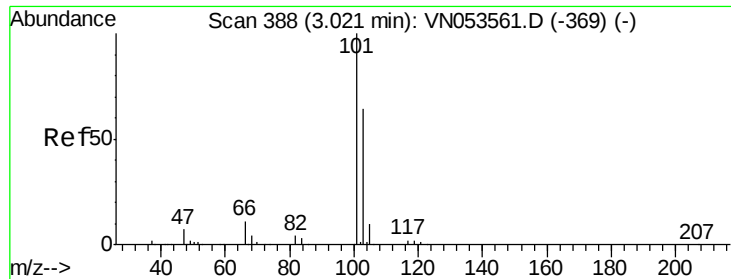
66 33.1 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

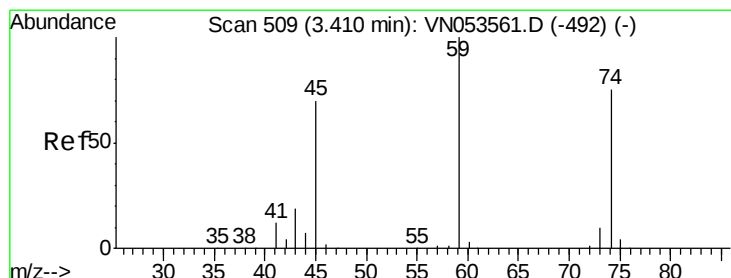
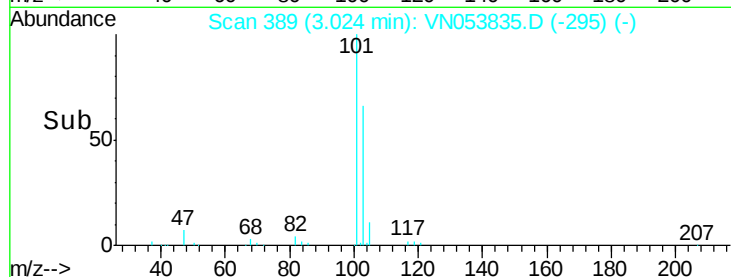
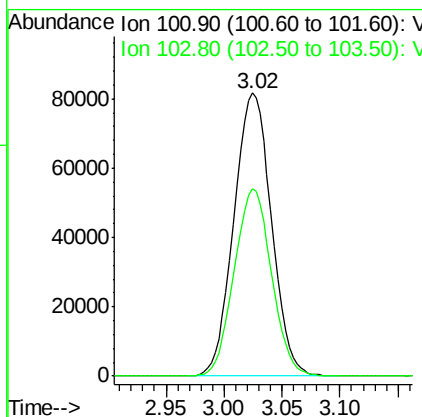
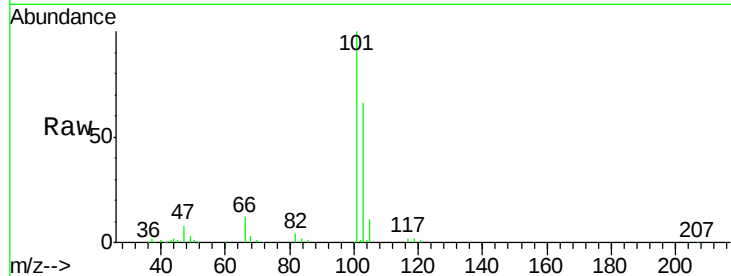
Trichlorofluoromethane
Concen: 20.366 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
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ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.6	77.4

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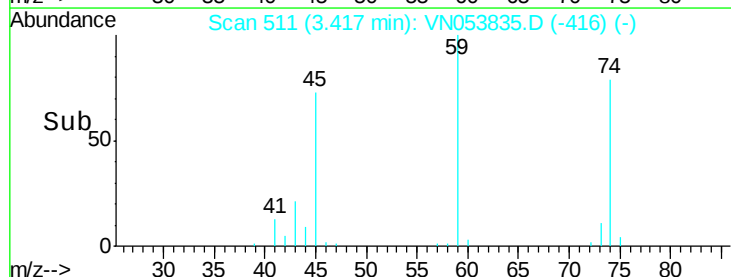
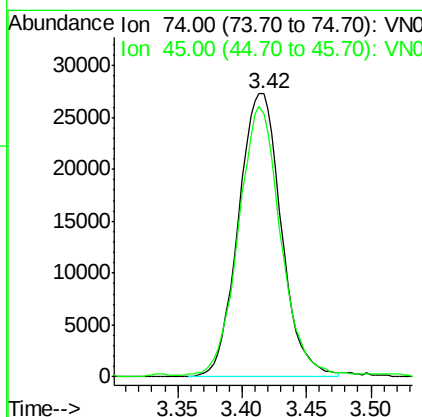
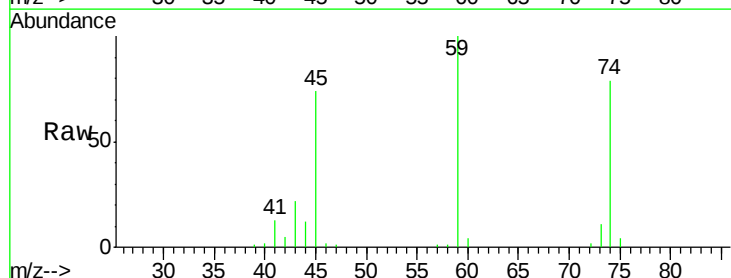
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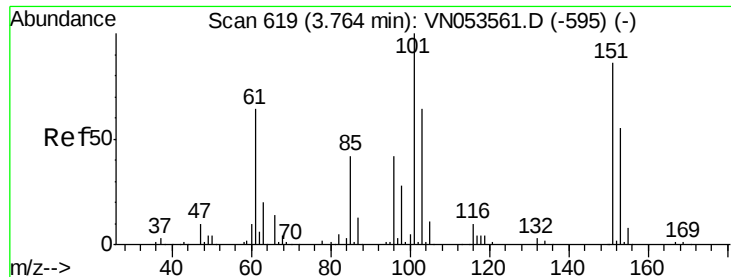


#8

Diethyl Ether
Concen: 19.168 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.01 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.6	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.472 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

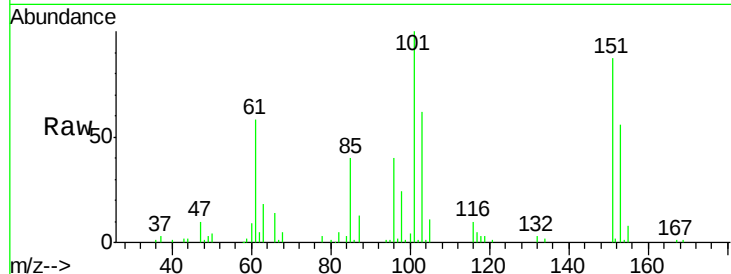
ClientSampleId :

VN0218WBSD01

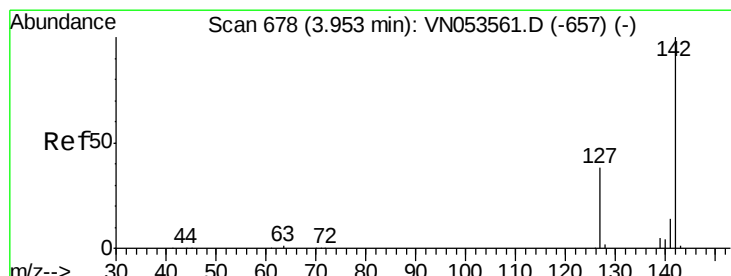
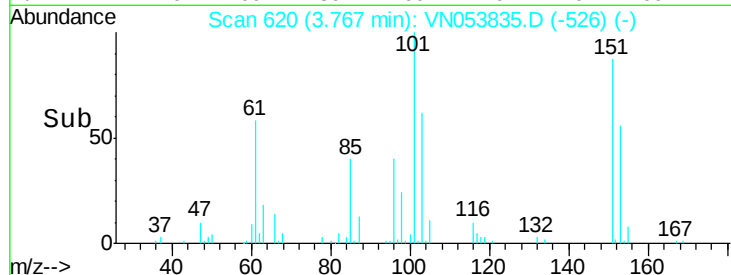
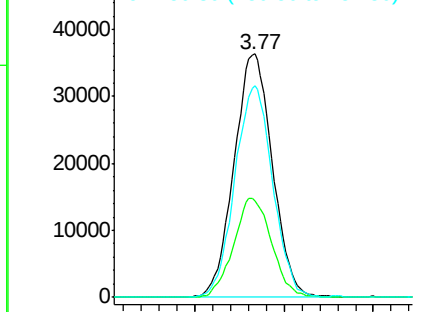
Tot Ion:	101	Resp:	108570
Ion Ratio	Lower	Upper	
101	100		
85	40.3	32.8	49.2
151	85.7	66.9	100.3

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.587 ug/l

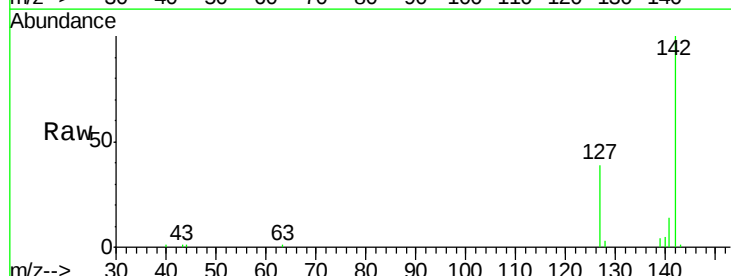
RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

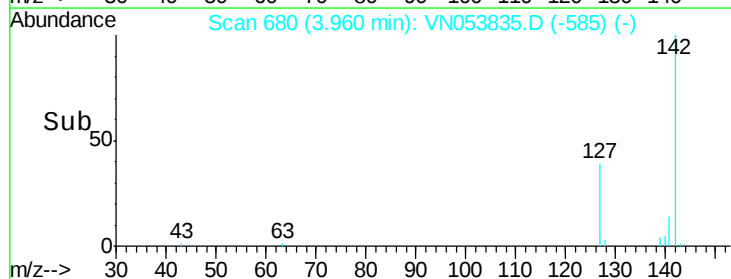
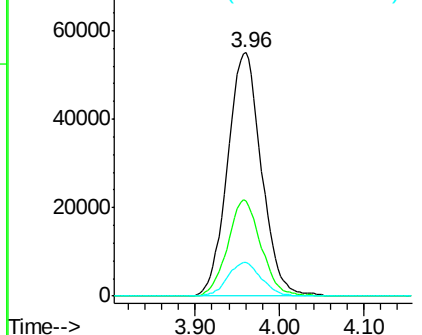
Lab File: VN053835.D

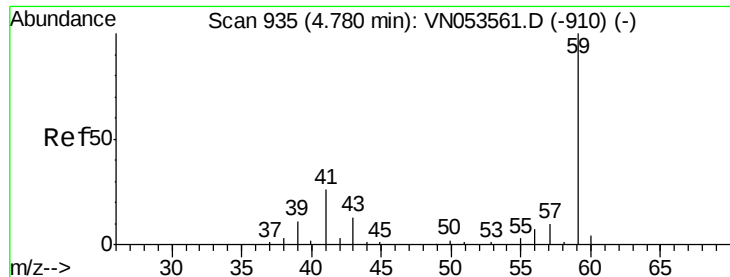
Acq: 18 Feb 2019 11:37

Tgt Ion:	142	Resp:	153912
Ion Ratio	Lower	Upper	
142	100		
127	38.7	31.0	46.4
141	13.7	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





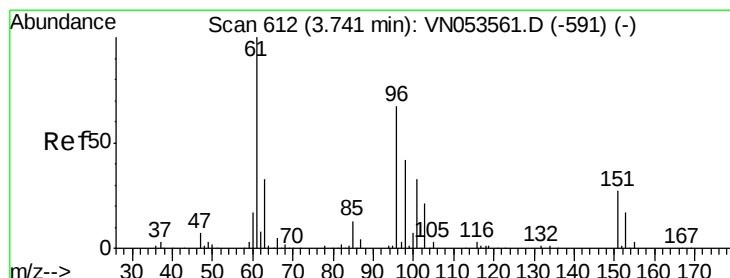
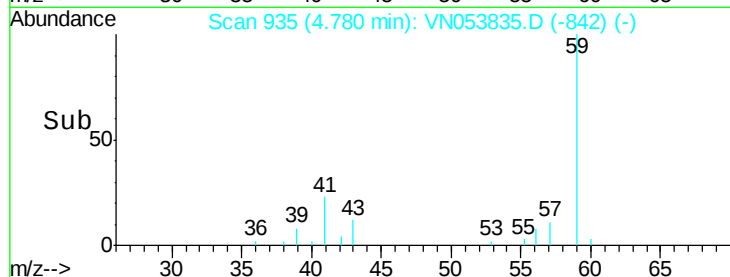
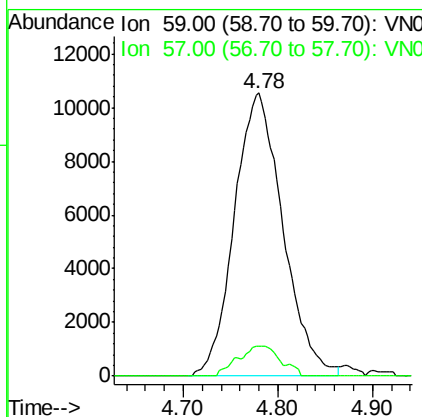
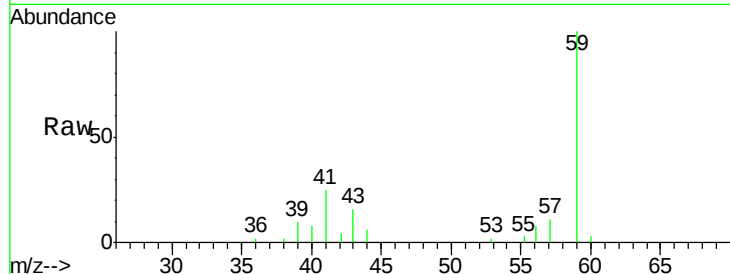
#11
Tert butyl alcohol
Concen: 109.579 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	37530		
57	8.6		8.2	12.4

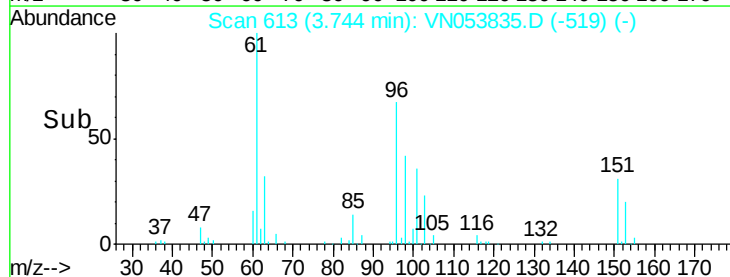
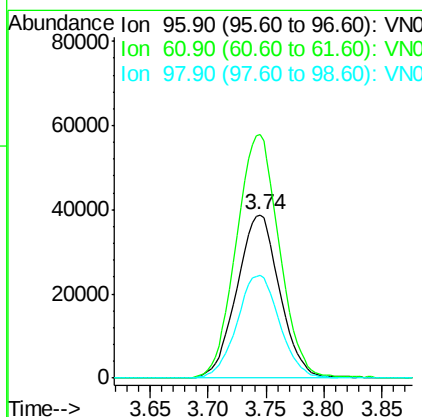
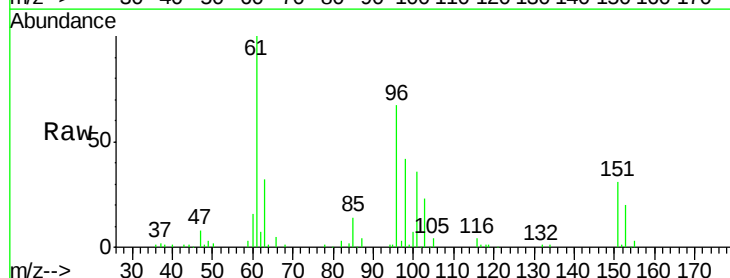
Manual Integrations
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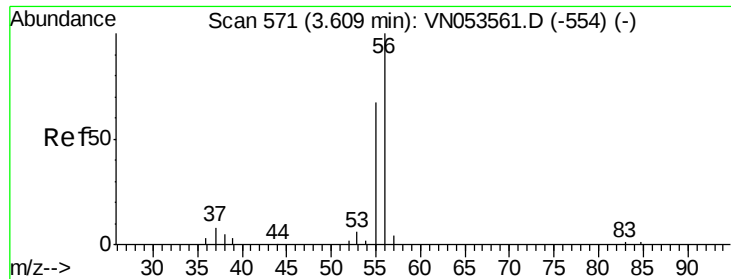
MMDadoda
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#12
1,1-Dichloroethene
Concen: 18.590 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	99308		
61	149.3		122.9	184.3
98	62.9		49.4	74.0





#13

Acrolein

Concen: 78.655 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion: 56 Resp: 14667

Ion Ratio Lower Upper

56 100

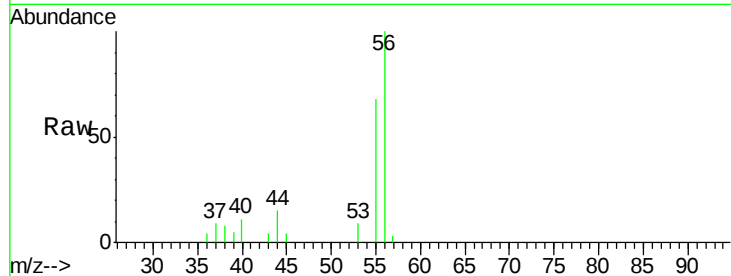
55 67.7 57.4 86.0

Manual Integrations

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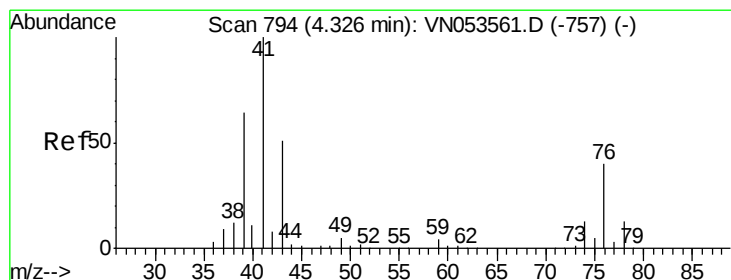
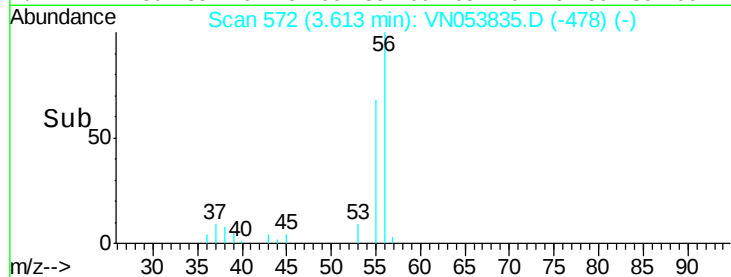
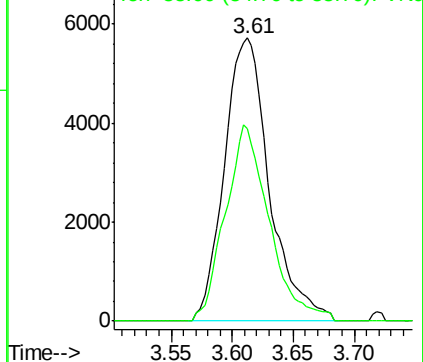
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 18.535 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

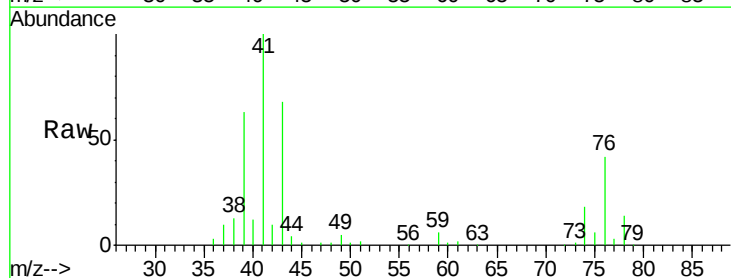
Tgt Ion: 41 Resp: 157652

Ion Ratio Lower Upper

41 100

39 60.4 48.9 73.3

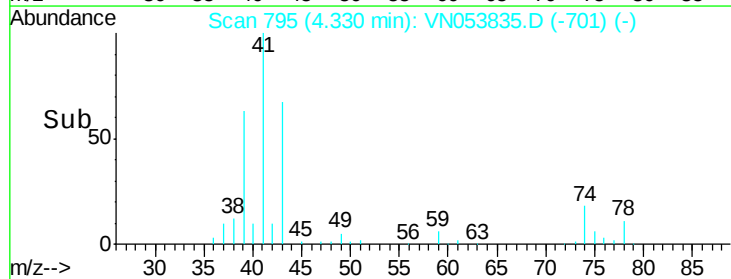
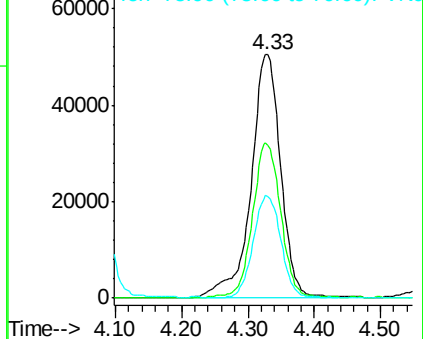
76 39.4 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 104.774 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

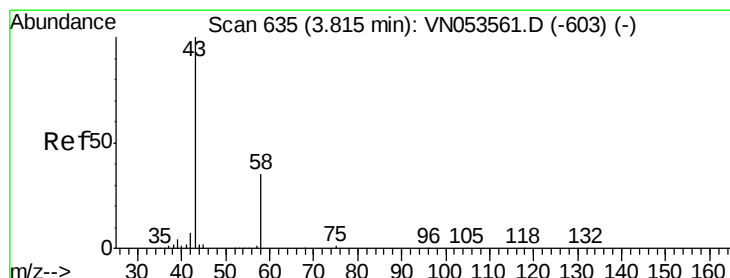
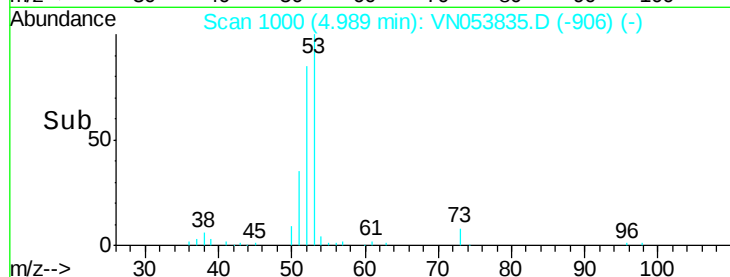
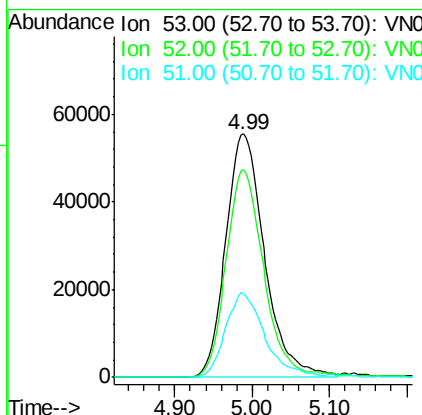
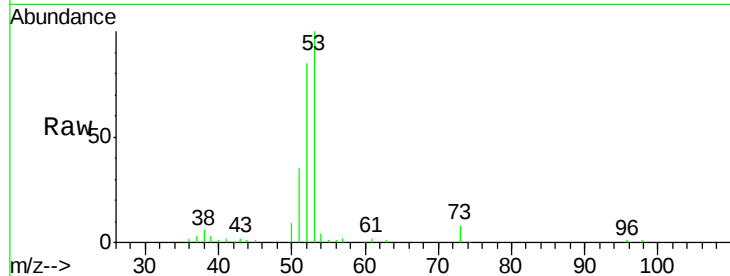
ClientSampled :

VN0218WBSD01

Tot Ion:	53	Resp:	193722
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.0	99.0
51	35.1	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 99.160 ug/l

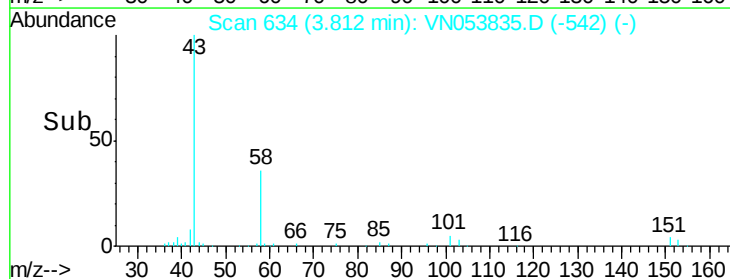
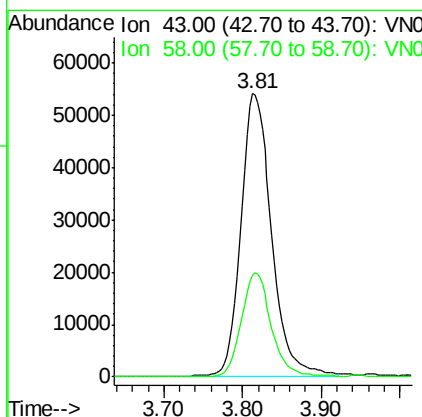
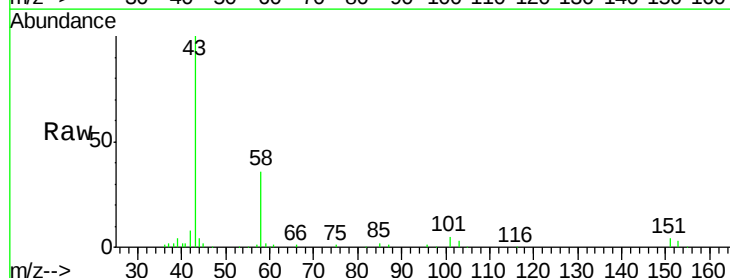
RT: 3.81 min Scan# 634

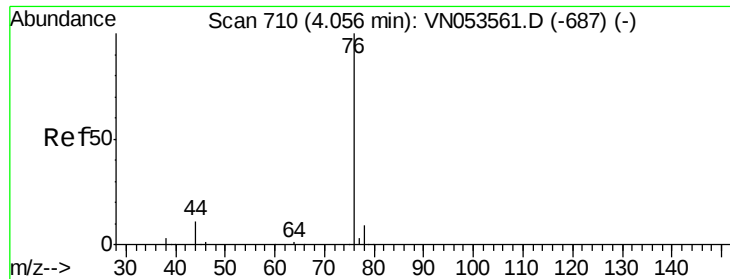
Delta R.T. -0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	43	Resp:	147193
Ion	Ratio	Lower	Upper
43	100		
58	36.2	27.1	40.7





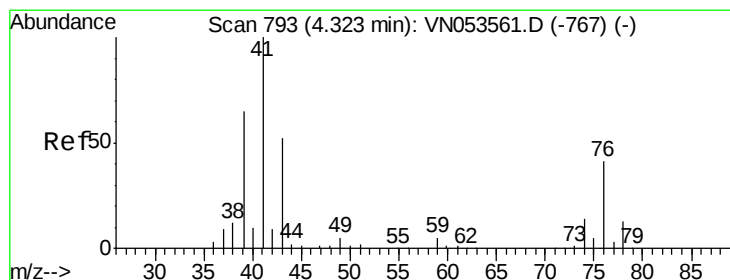
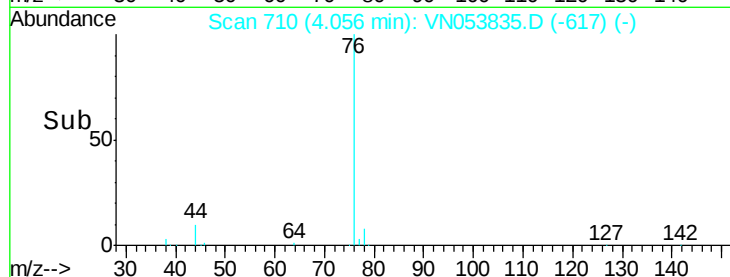
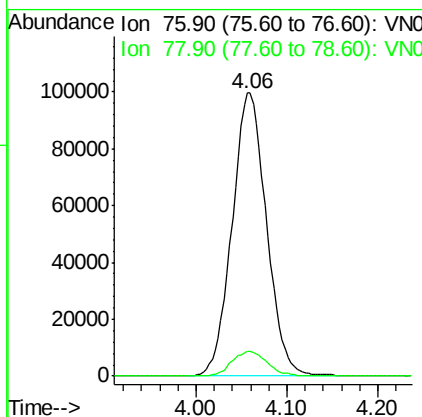
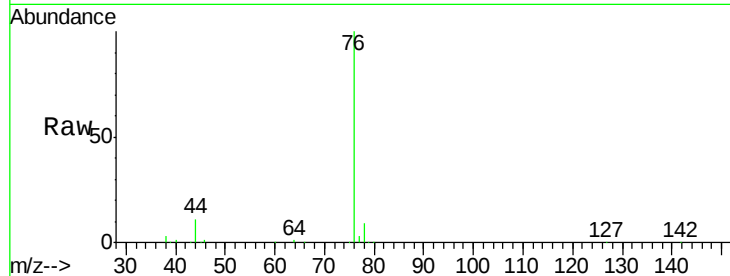
#17
Carbon Disulfide
Concen: 15.724 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9

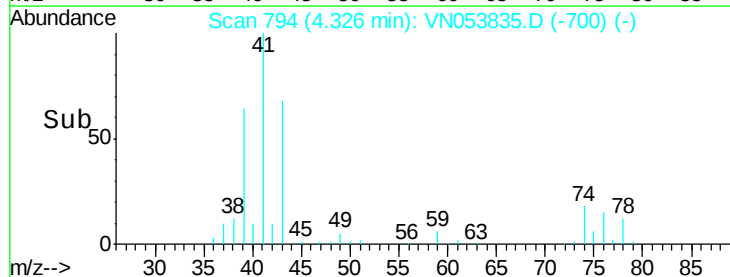
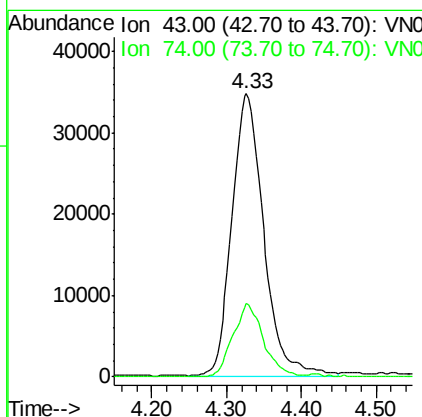
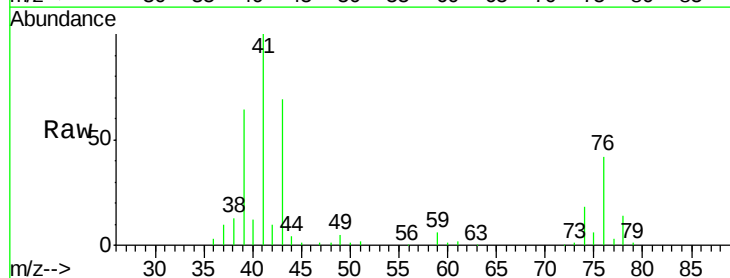
Manual Integrations
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#18
Methyl Acetate
Concen: 23.685 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	19.4	29.2





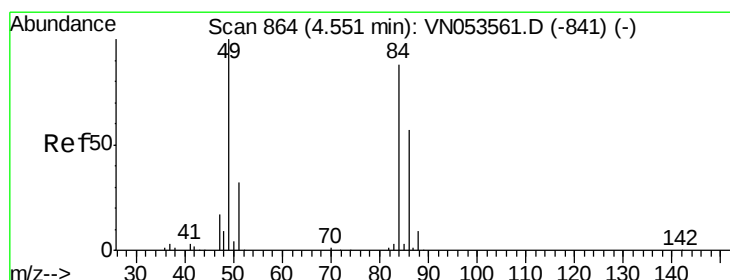
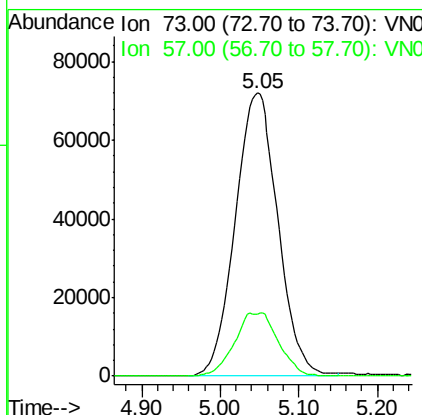
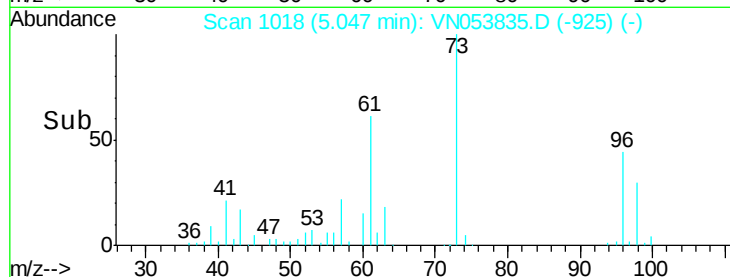
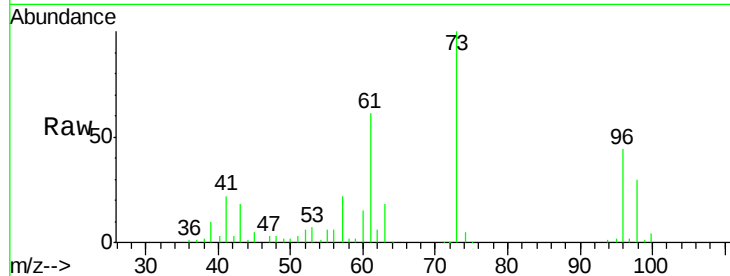
#19
Methvl tert-butvl Ether
Concen: 20.257 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion: 73 Resp: 274319
Ion Ratio Lower Upper
73 100
57 22.1 18.3 27.5

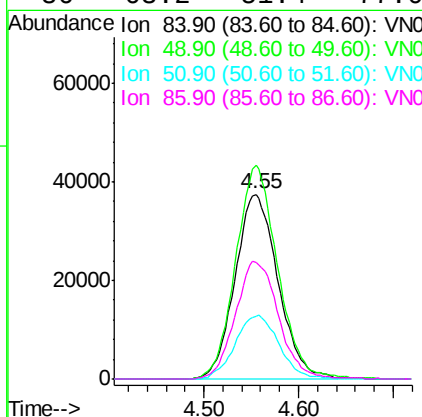
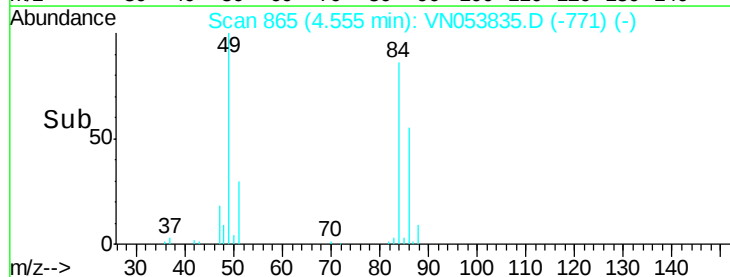
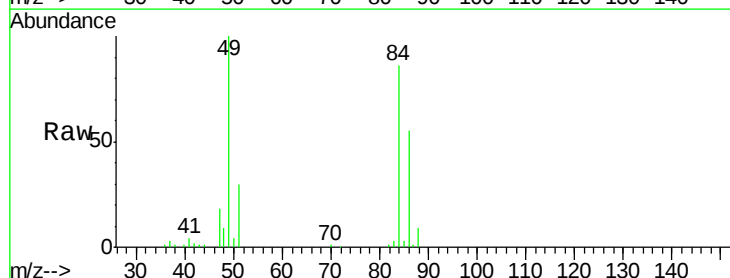
Manual Integrations
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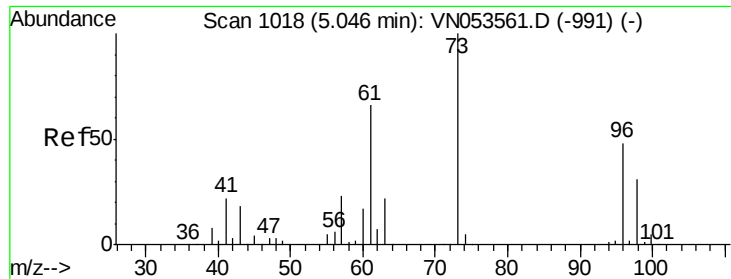
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#20
Methylene Chloride
Concen: 18.959 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion: 84 Resp: 118072
Ion Ratio Lower Upper
84 100
49 115.8 94.3 141.5
51 34.2 29.4 44.2
86 63.2 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 18.176 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

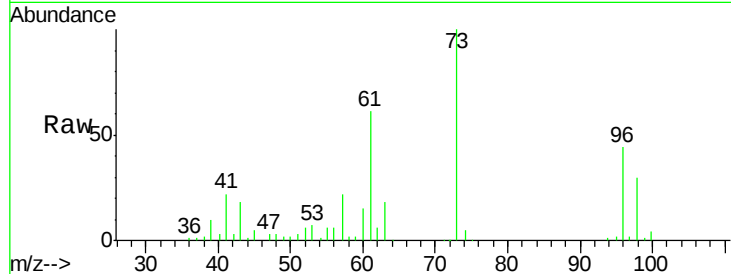
ClientSampleId :

VN0218WBSD01

Tot Ion:	96	Resp:	104750
Ion	Ratio	Lower	Upper
96	100		
61	137.0	110.1	165.1
98	67.6	50.0	75.0

Manual Integrations
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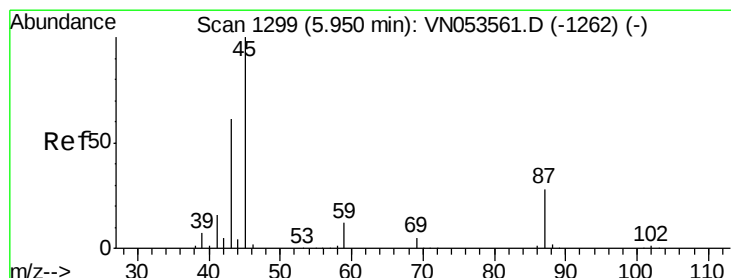
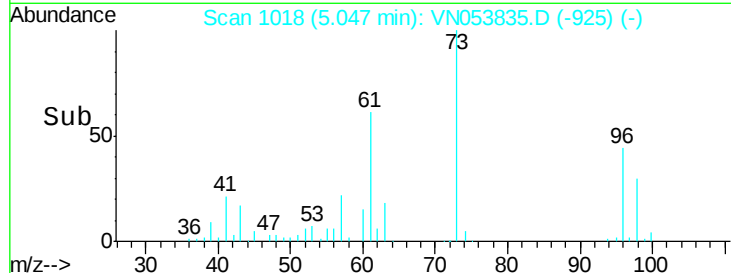
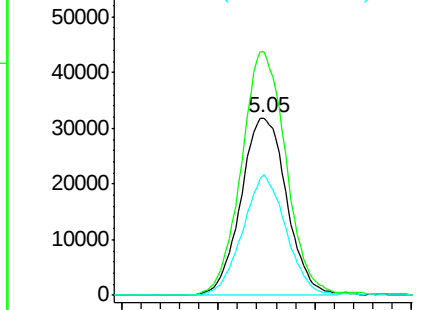


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 19.702 ug/l

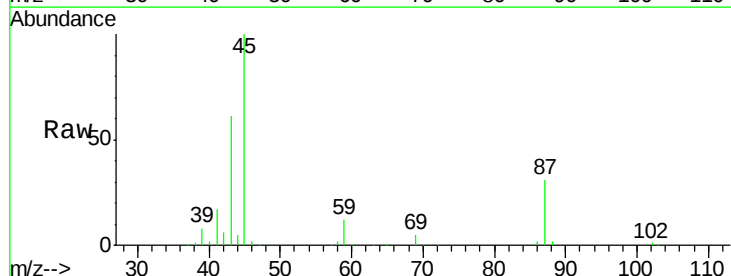
RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	45	Resp:	310503
Ion	Ratio	Lower	Upper
45	100		
43	57.9	44.2	66.4
87	29.6	22.7	34.1
59	11.7	9.4	14.2



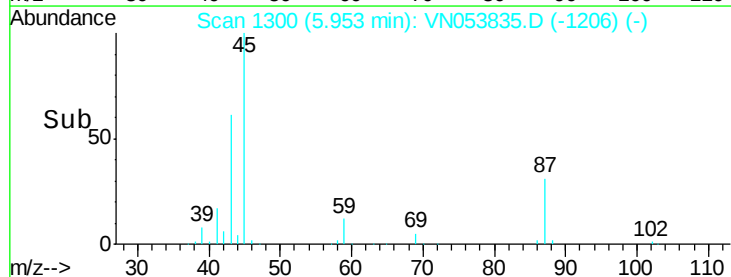
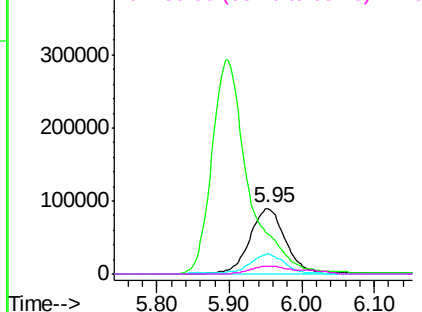
Abundance

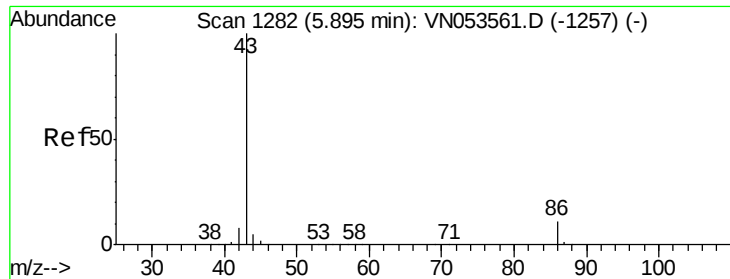
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





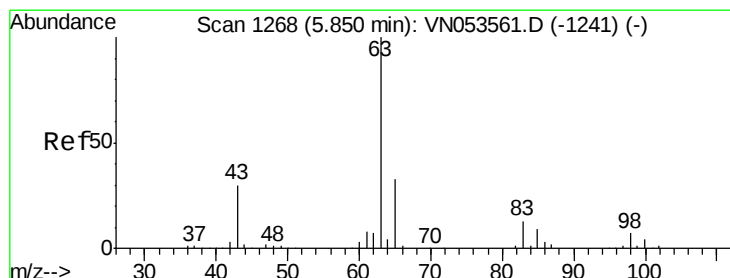
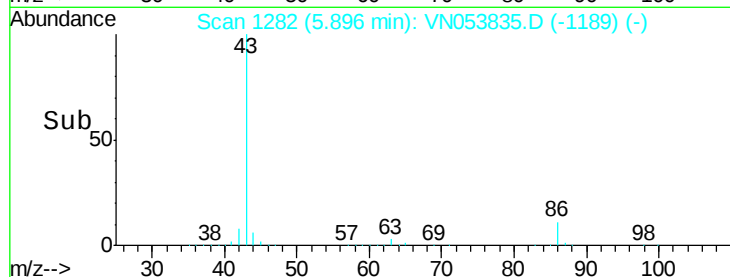
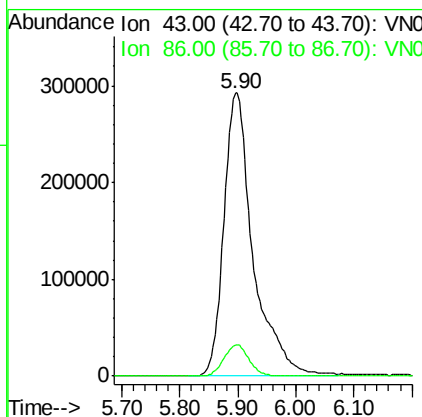
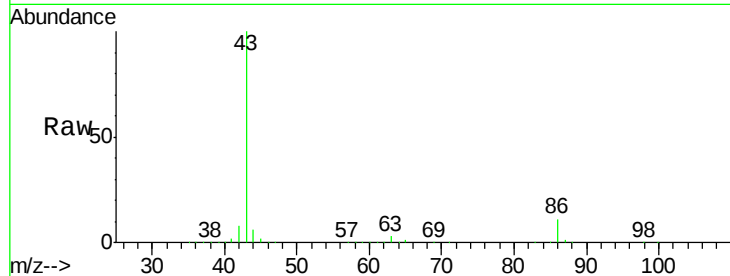
#23
 Vinyl Acetate
 Concen: 94.201 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0218WBSD01

Tot Ion: 43 Resp: 1027027
 Ion Ratio Lower Upper
 43 100
 86 11.0 8.4 12.6

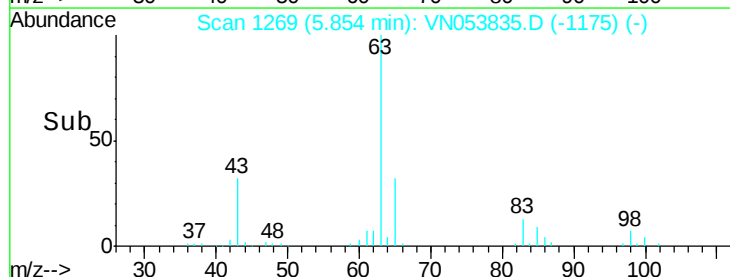
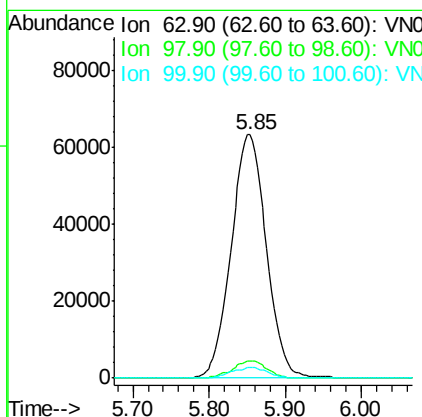
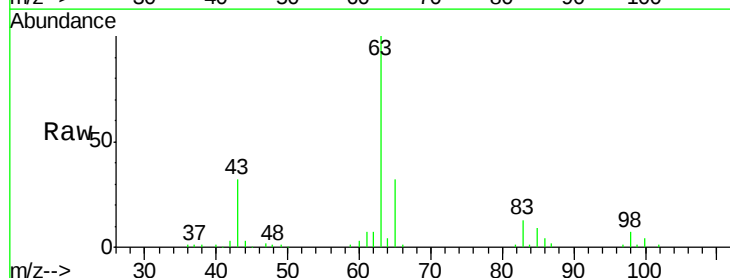
Manual Integrations
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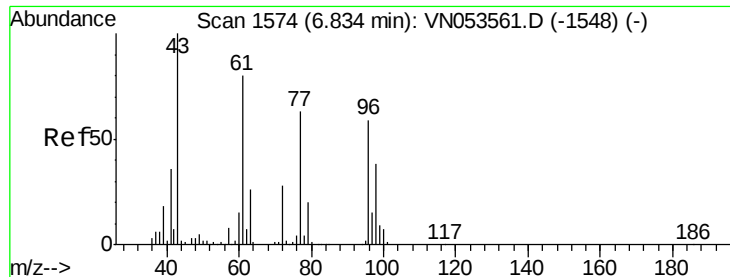
MMDadoda
 2/19/2019 12:31:22 PM



#24
 1,1-Dichloroethane
 Concen: 19.297 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion: 63 Resp: 202843
 Ion Ratio Lower Upper
 63 100
 98 7.1 3.3 9.9
 100 4.4 2.1 6.5





#25

2-Butanone

Concen: 99.193 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion: 43 Resp: 209999

Ion Ratio Lower Upper

43 100

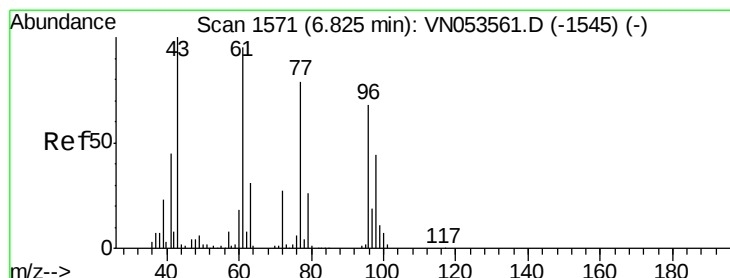
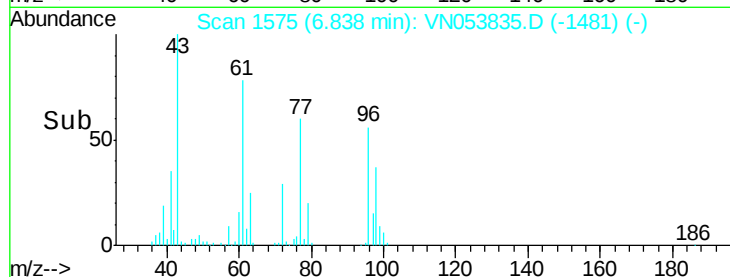
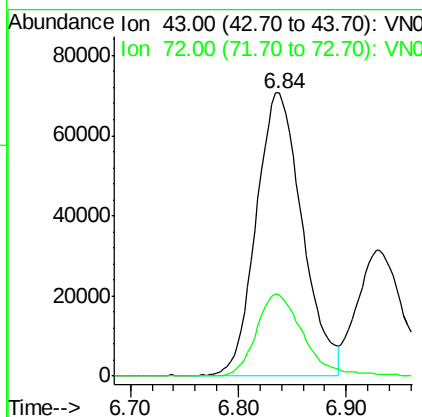
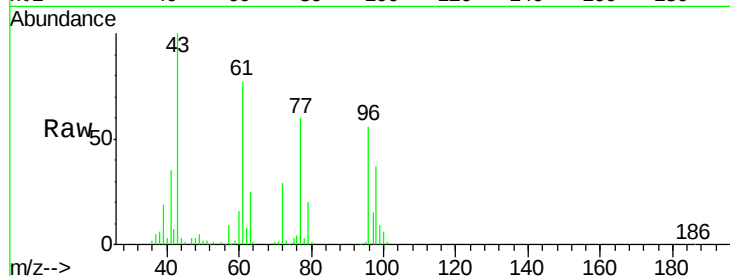
72 28.8 22.0 33.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.031 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053835.D

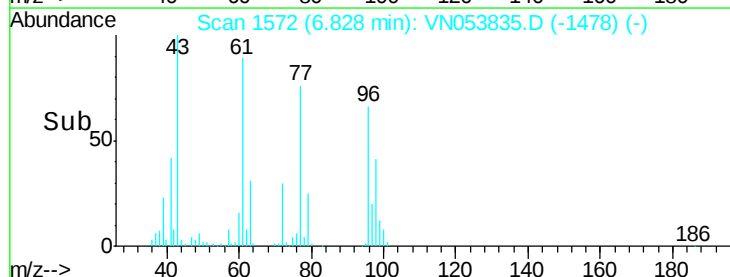
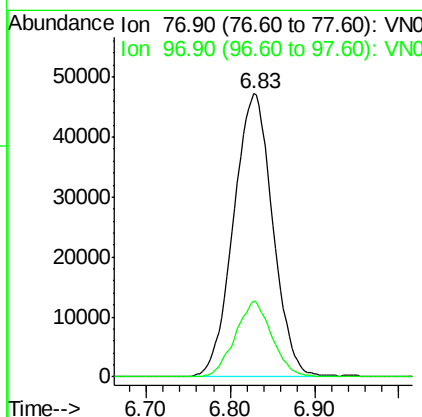
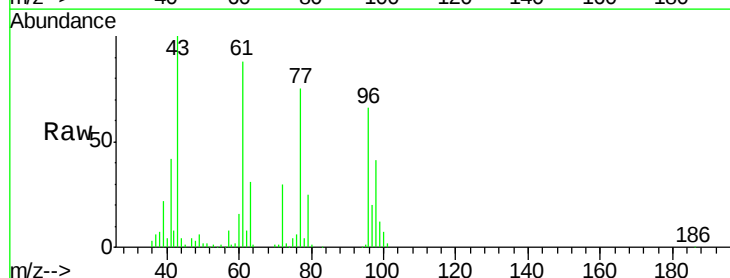
Acq: 18 Feb 2019 11:37

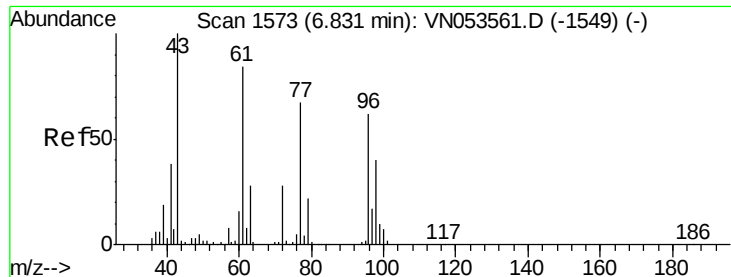
Tgt Ion: 77 Resp: 152713

Ion Ratio Lower Upper

77 100

97 24.9 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 19.213 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

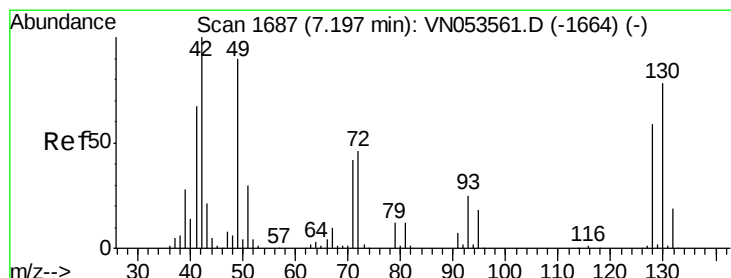
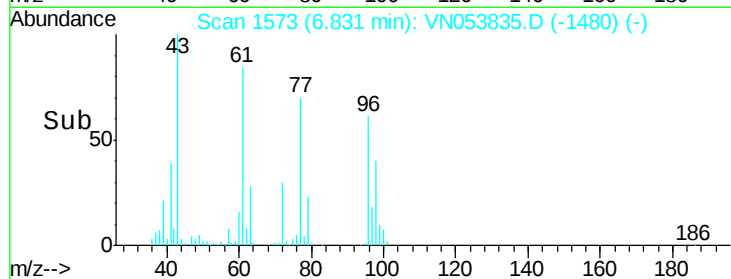
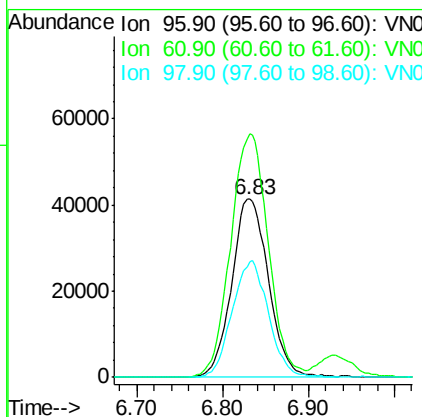
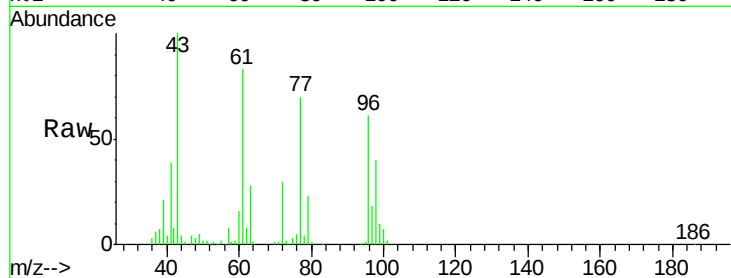
ClientSampleId :

VN0218WBSD01

Tot Ion:	96	Resp:	123124
Ion	Ratio	Lower	Upper
96	100		
61	139.7	0.0	283.8
98	64.1	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 20.617 ug/l

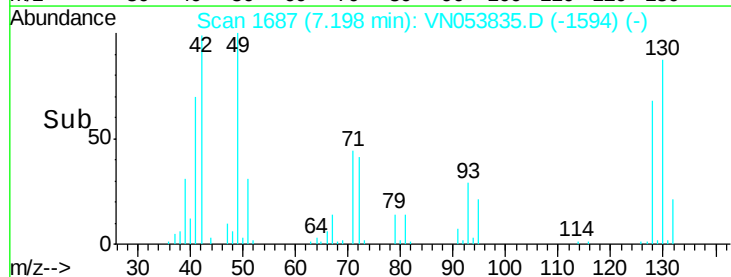
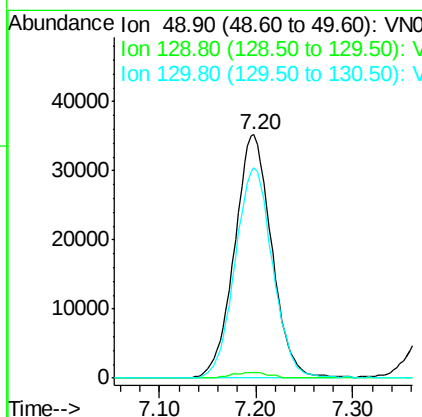
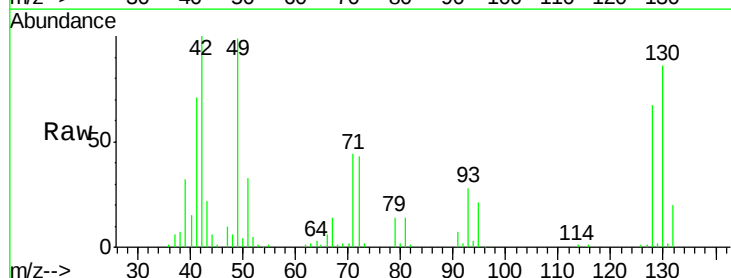
RT: 7.20 min Scan# 1687

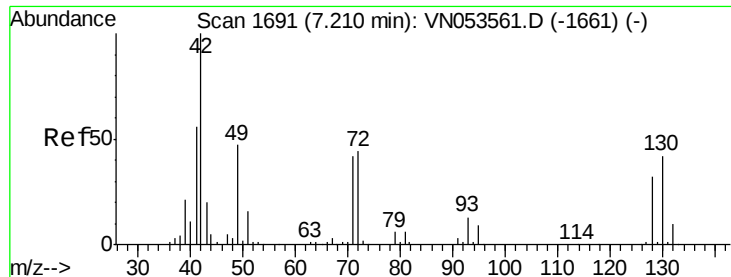
Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	49	Resp:	94049
Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.0
130	87.4	66.3	99.5





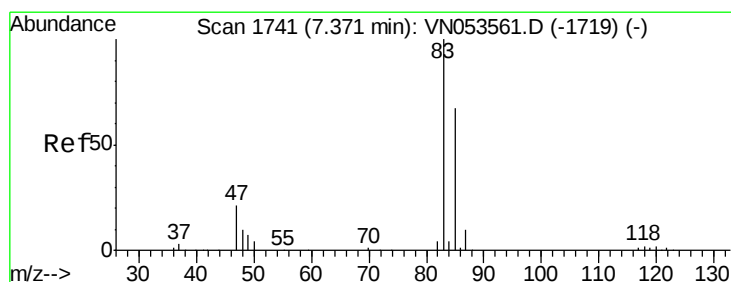
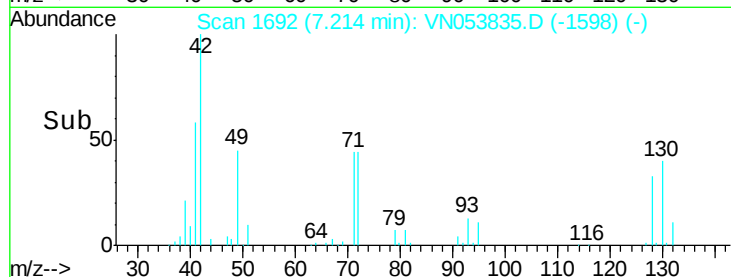
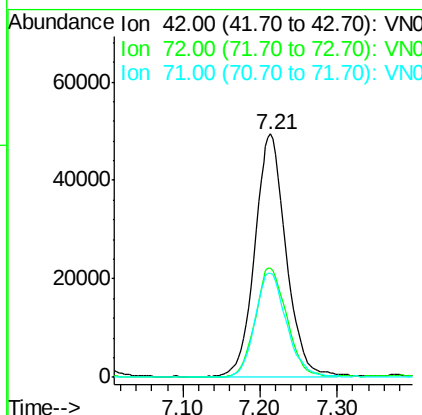
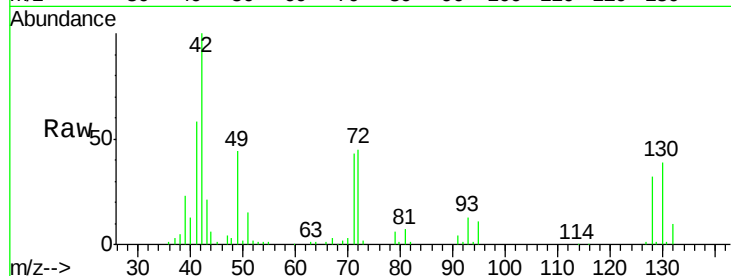
#29
Tetrahydrofuran
Concen: 102.921 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.4	35.2	52.8
71	43.4	33.0	49.4

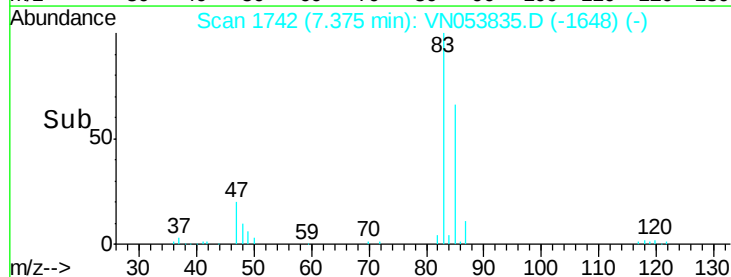
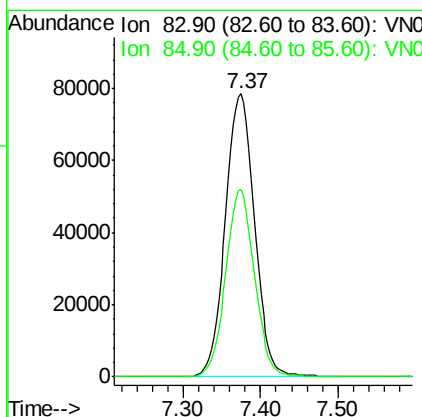
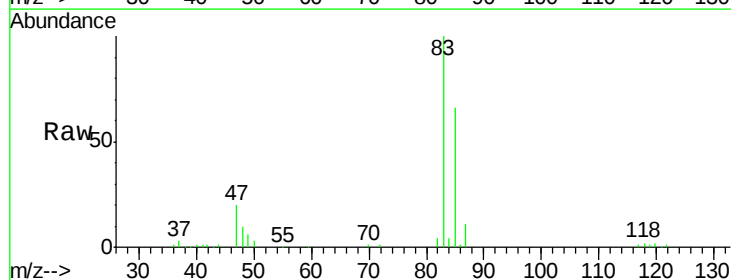
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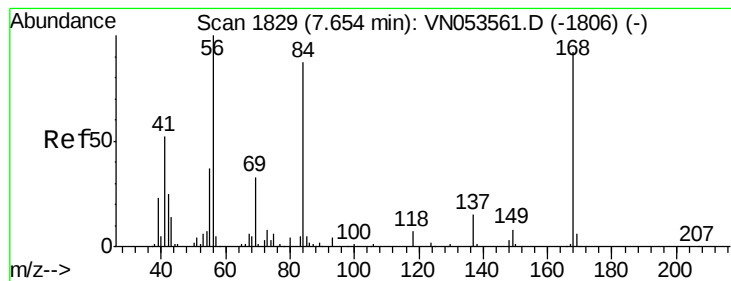
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#30
Chloroform
Concen: 19.744 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.2	78.2





#31

Cyclohexane

Concen: 17.733 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

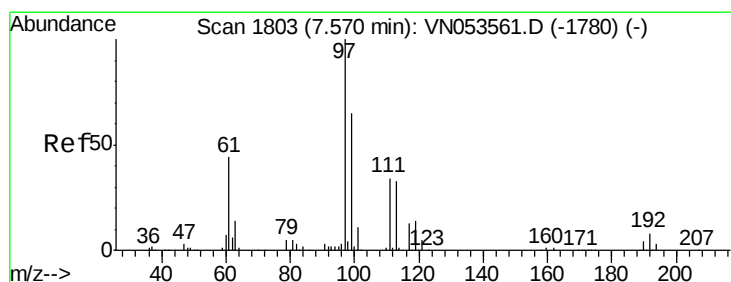
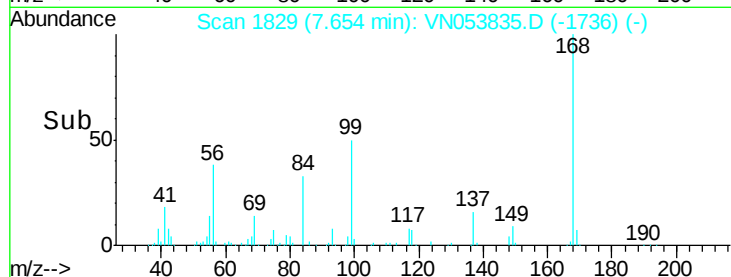
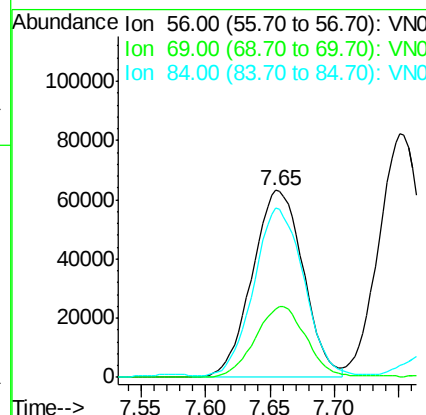
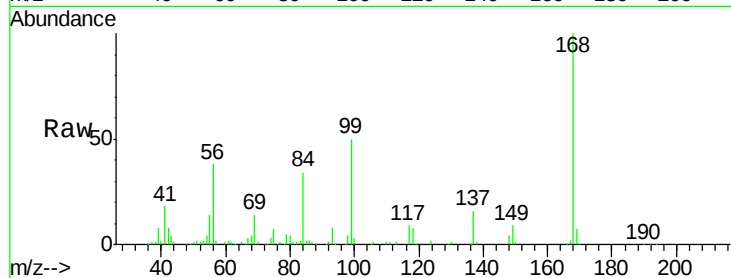
ClientSampleId :

VN0218WBSD01

Tot Ion:	56	Resp:	174620
Ion Ratio	Lower	Upper	
56	100		
69	36.8	26.4	39.6
84	89.5	67.9	101.9

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#32

1,1,1-Trichloroethane

Concen: 19.486 ug/l

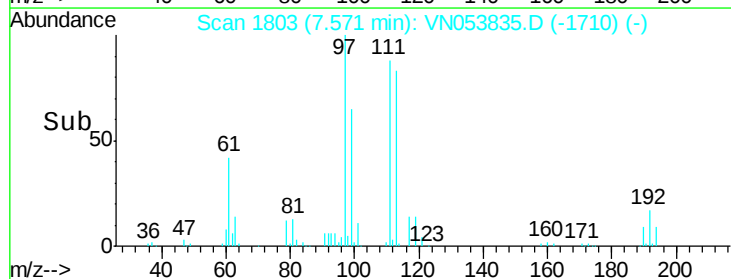
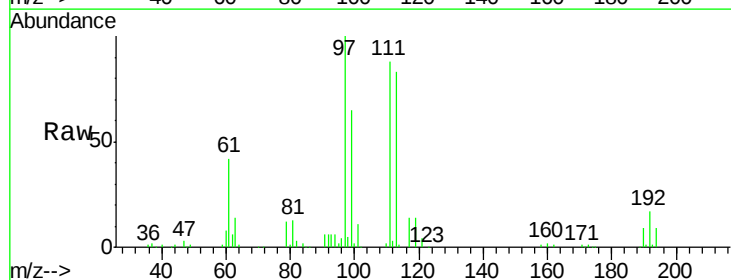
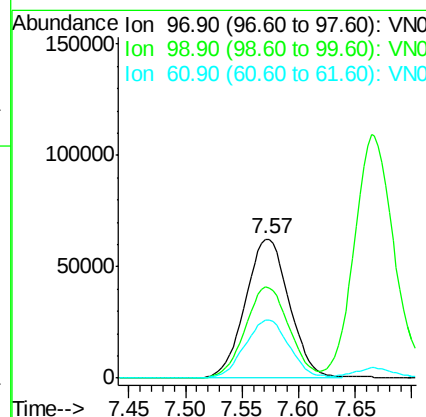
RT: 7.57 min Scan# 1803

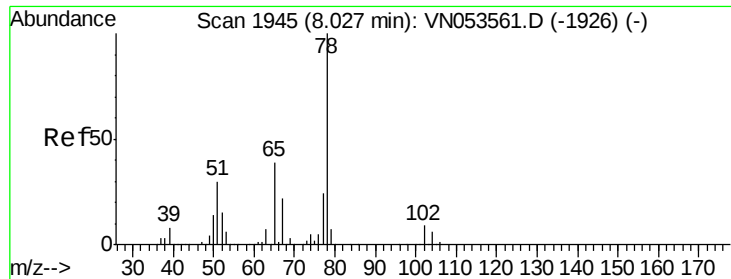
Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	97	Resp:	168983
Ion Ratio	Lower	Upper	
97	100		
99	65.5	52.0	78.0
61	42.4	34.4	51.6





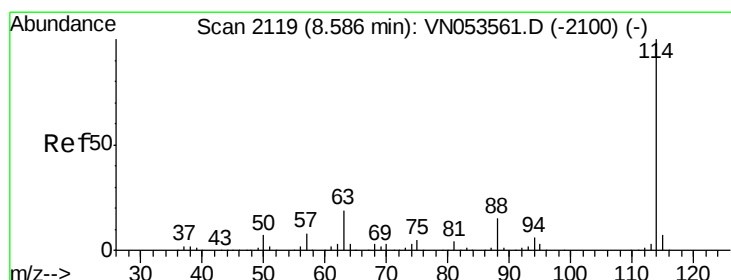
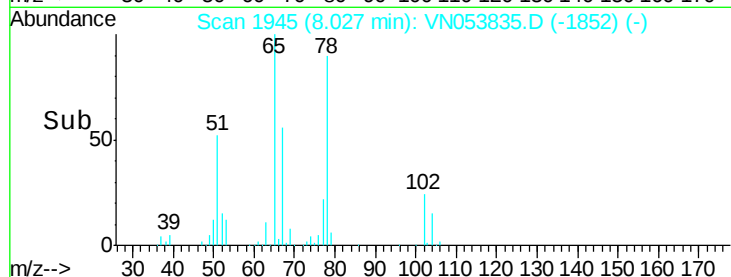
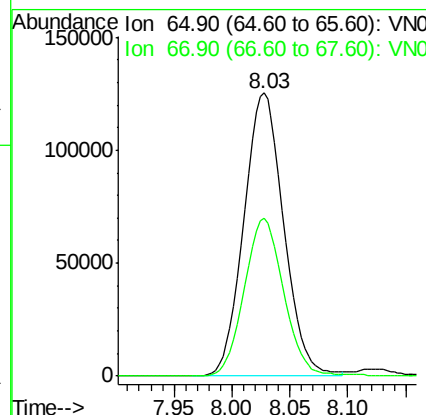
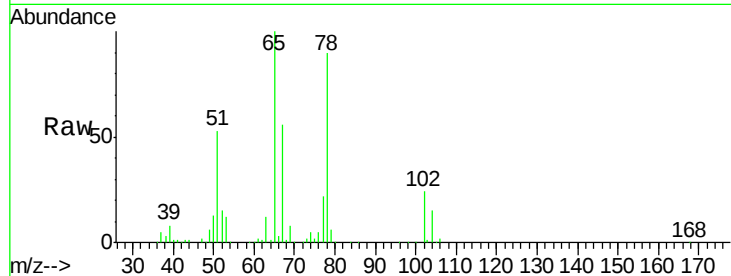
#33
 1,2-Dichloroethane-d4
 Concen: 51.810 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	299826		
67	54.9	0.0	111.2	

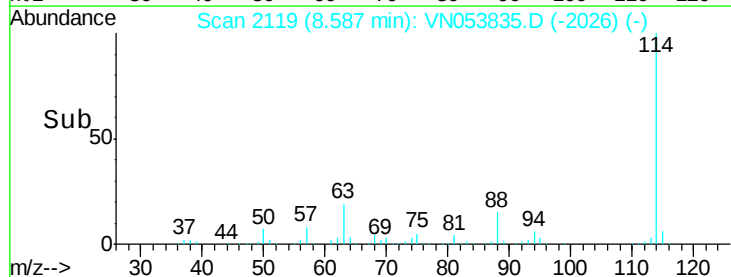
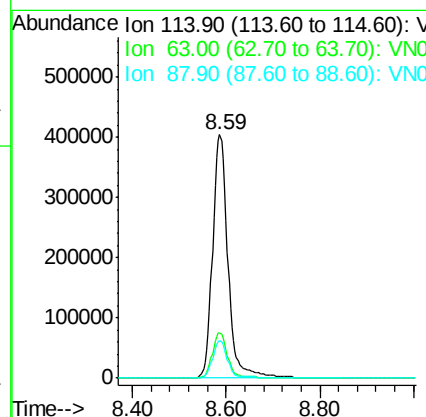
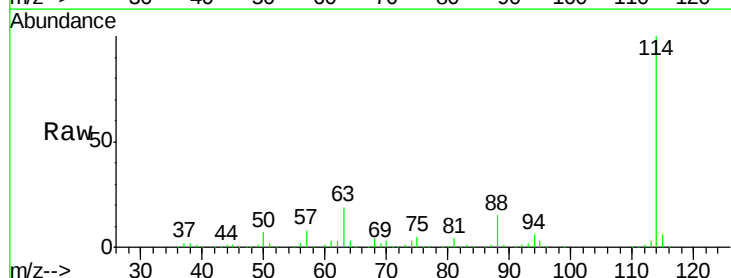
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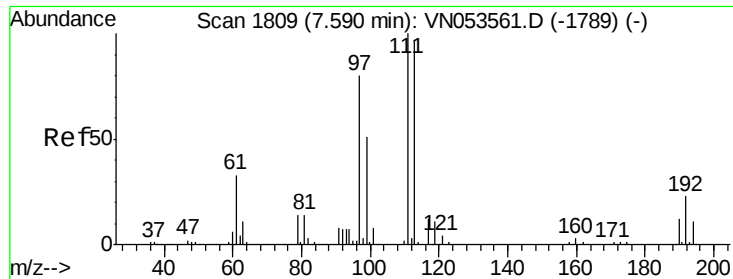
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	922658		
63	18.7	0.0	38.6	
88	15.2	0.0	30.4	





#35

Dibromofluoromethane

Concen: 49.407 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

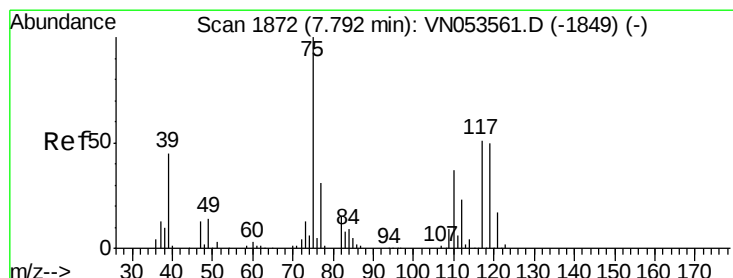
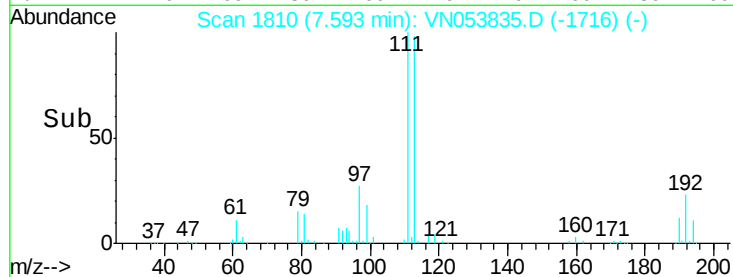
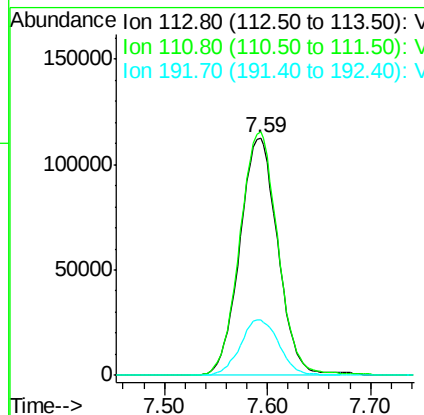
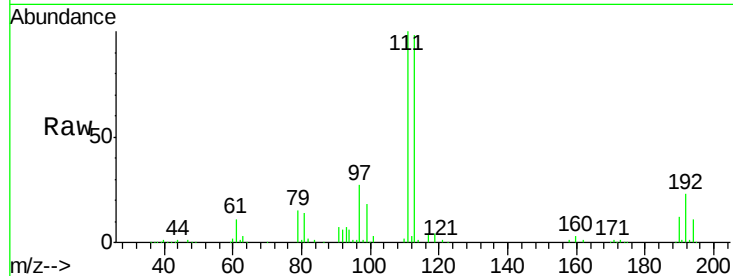
ClientSampleId :

VN0218WBSD01

Tot Ion:	113	Resp:	288045
Ion Ratio	Lower	Upper	
113	100		
111	102.9	81.1	121.7
192	23.7	18.2	27.2

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#36

1,1-Dichloropropene

Concen: 17.468 ug/l

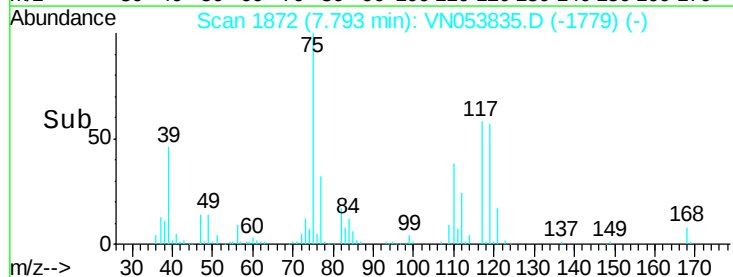
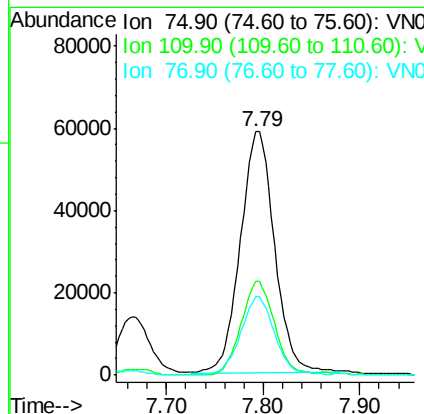
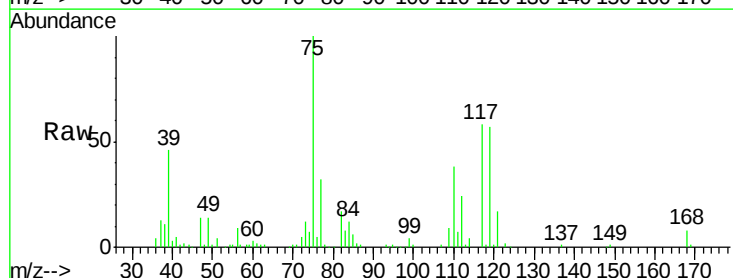
RT: 7.79 min Scan# 1872

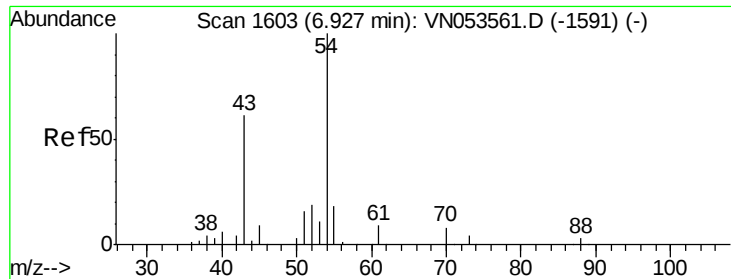
Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	75	Resp:	145283
Ion Ratio	Lower	Upper	
75	100		
110	37.5	18.1	54.3
77	32.0	25.1	37.7





#37

Ethyl Acetate

Concen: 19.462 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

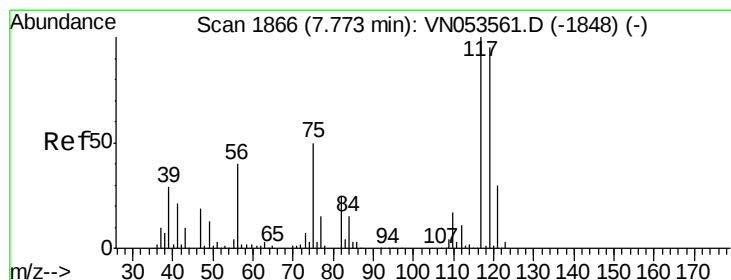
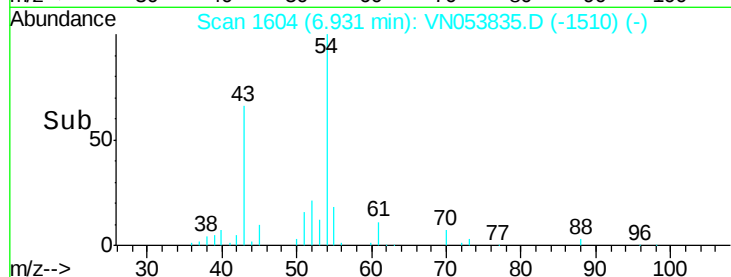
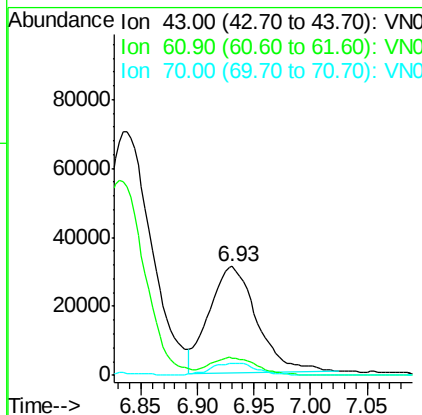
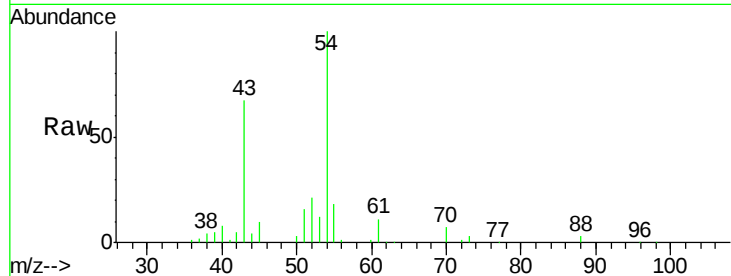
ClientSampleId :

VN0218WBSD01

Tot Ion:	43	Resp:	90405
Ion	Ratio	Lower	Upper
43	100		
61	16.7	11.8	17.6
70	10.9	8.6	12.8

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 18.152 ug/l

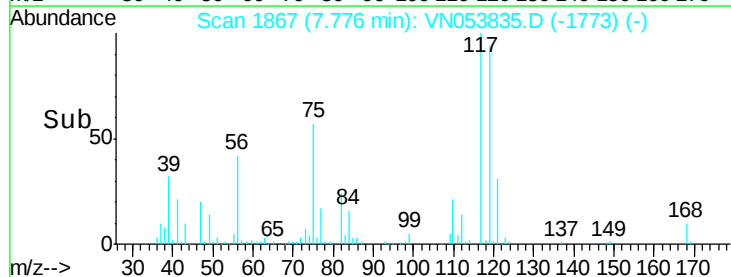
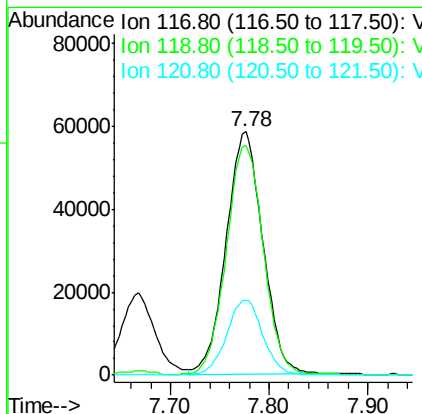
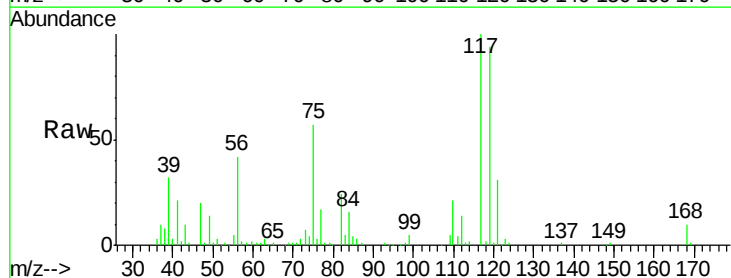
RT: 7.78 min Scan# 1867

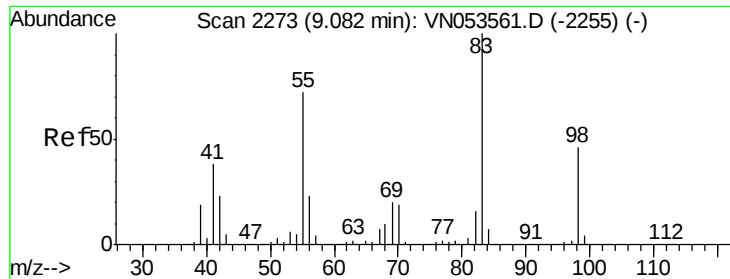
Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	117	Resp:	152092
Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.2	115.8
121	31.0	24.6	37.0





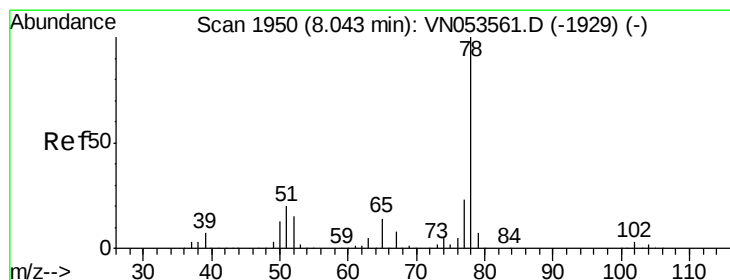
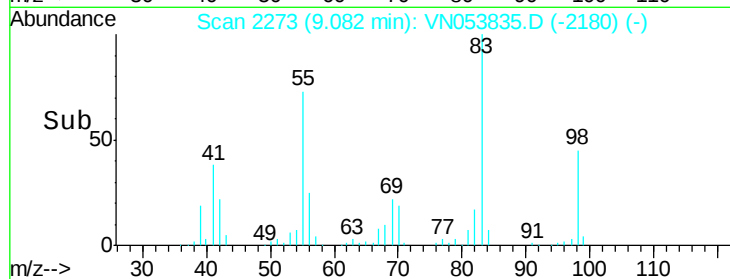
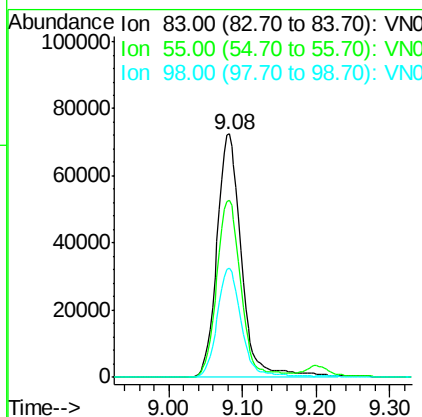
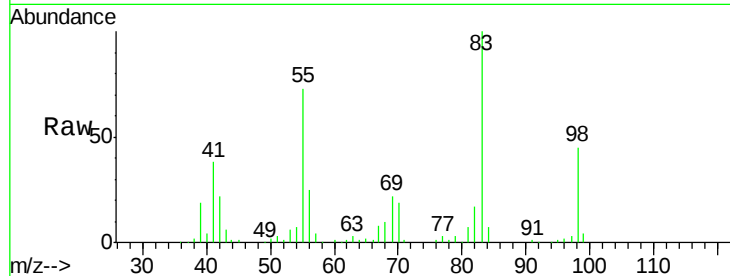
#39
Methylvlcyclohexane
Concen: 17.016 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	167904		
55	73.0		60.1	90.1
98	45.1		36.6	55.0

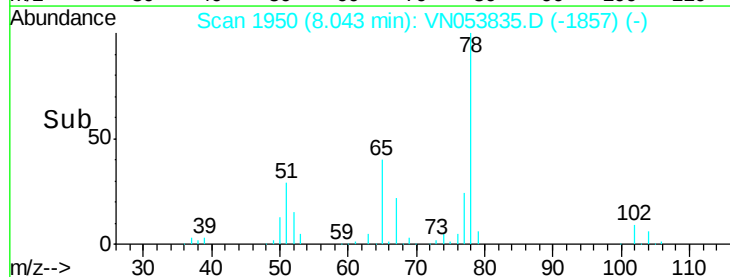
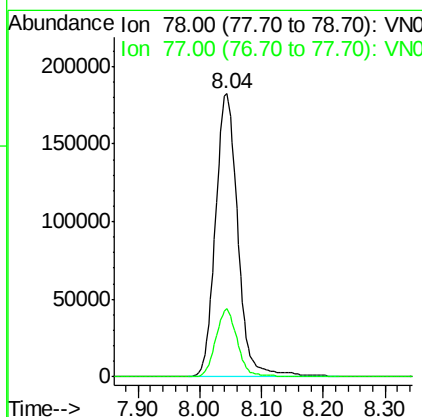
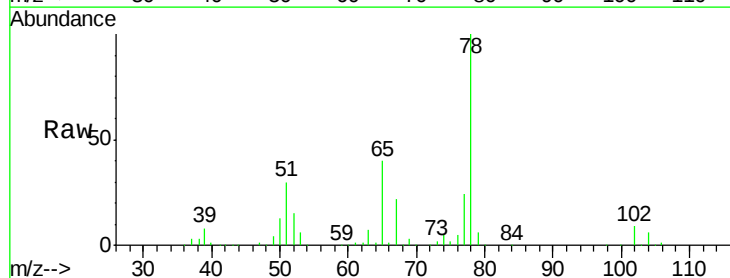
Manual Integrations
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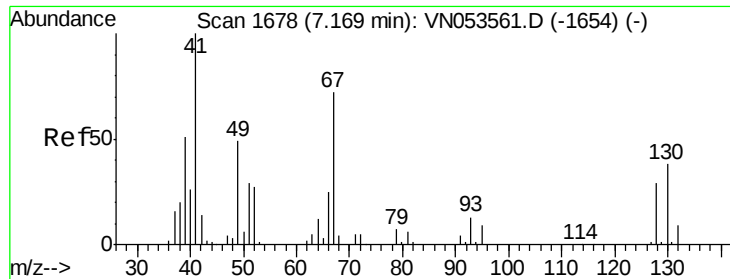
MMDadoda
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#40
Benzene
Concen: 17.940 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	460126		
77	23.9		18.8	28.2





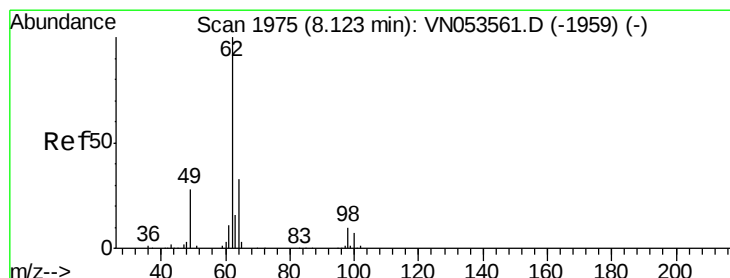
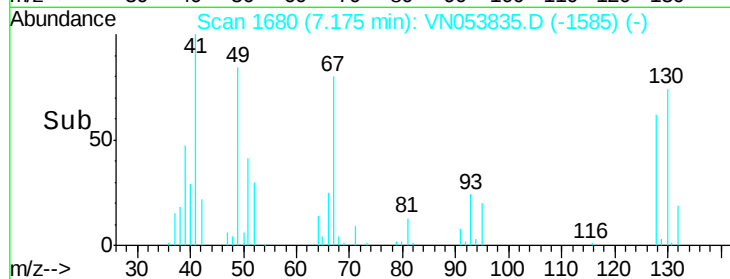
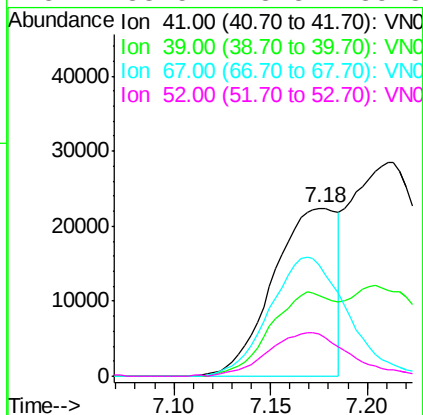
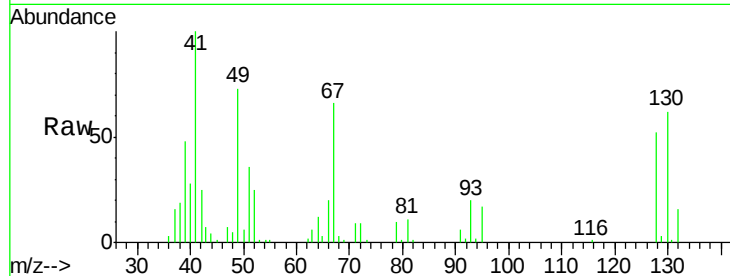
#41
Methacrylonitrile
Concen: 19.875 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion:	41	Resp:	51599
Ion	Ratio	Lower	Upper
41	100		
39	50.1	46.8	70.2
67	86.9	63.0	94.6
52	33.5	23.8	35.8

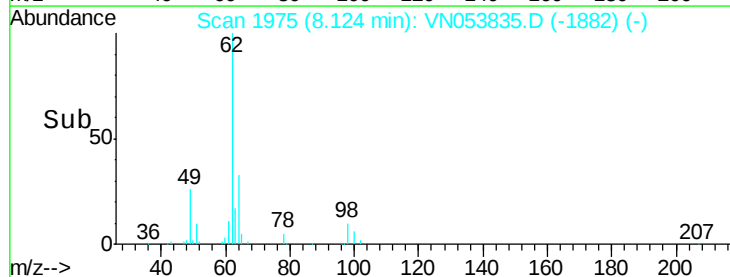
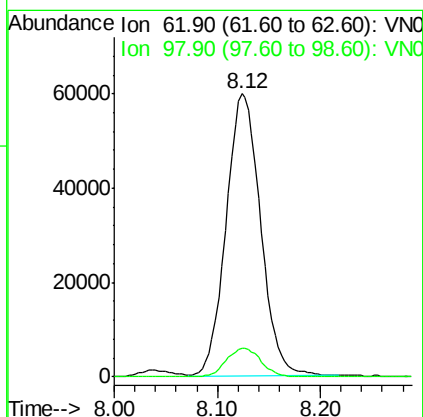
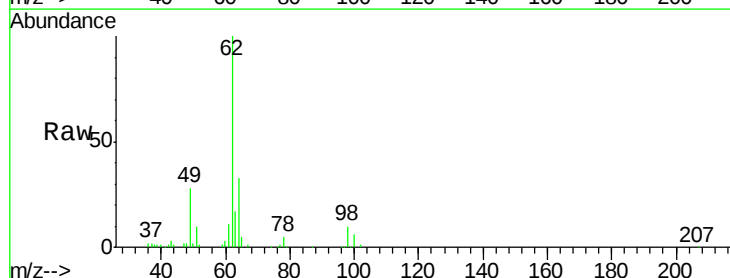
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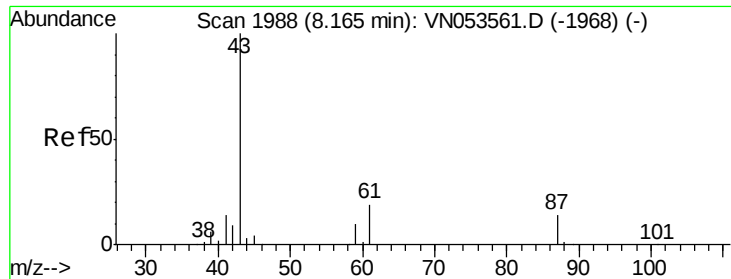
MMDadoda
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#42
1,2-Dichloroethane
Concen: 18.281 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion:	62	Resp:	139219
Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	19.6





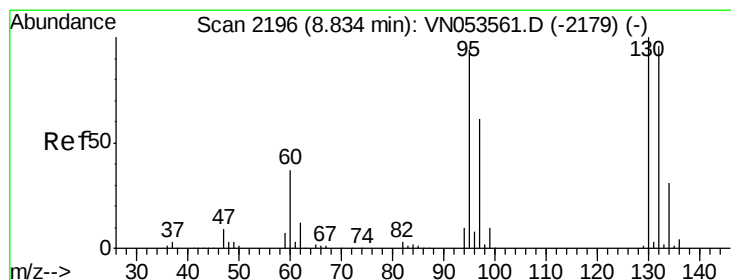
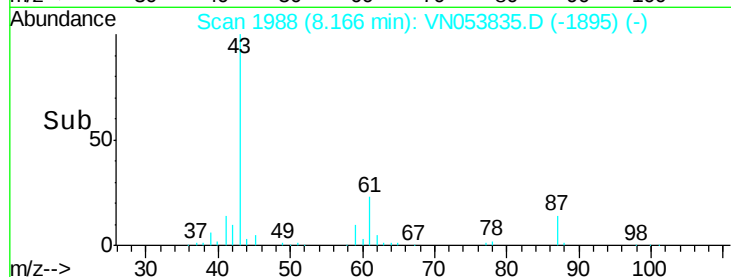
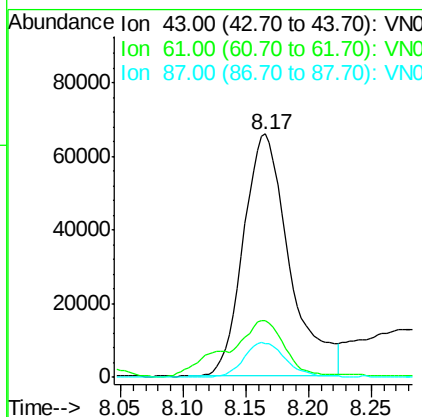
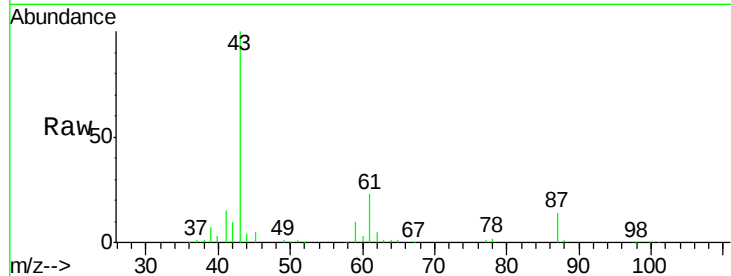
#43
Isopropyl Acetate
Concen: 18.849 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.3	23.9	35.9#
87	13.2	11.0	16.6

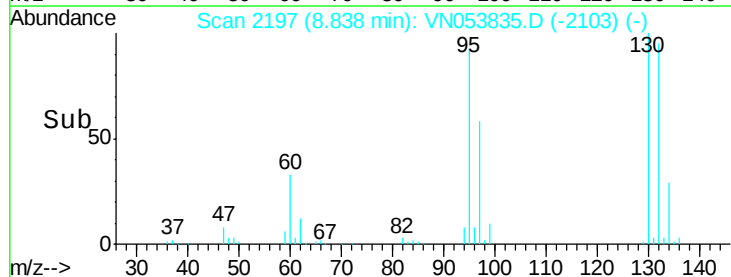
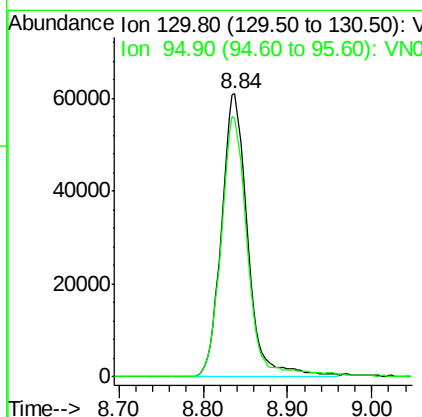
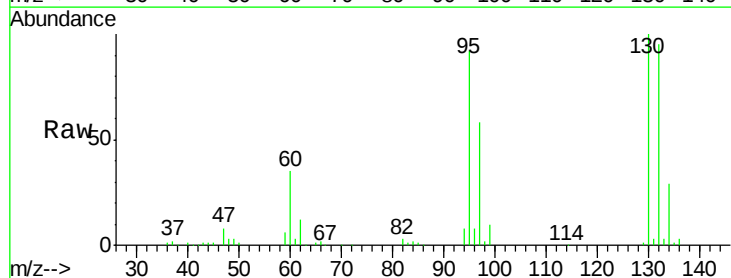
Manual Integrations
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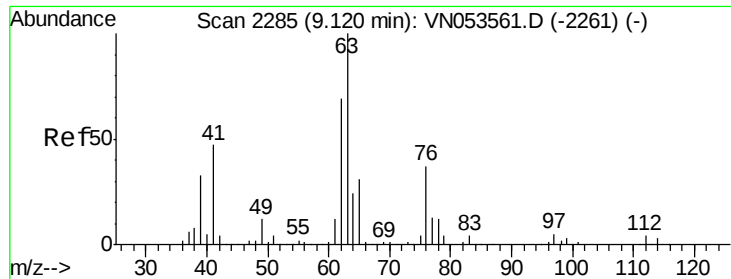
MMDadoda
2/19/2019 12:31:22 PM



#44
Trichloroethene
Concen: 18.013 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.5	0.0	191.4





#45

1,2-Dichloropropane

Concen: 18.709 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion: 63 Resp: 122730

Ion Ratio Lower Upper

63 100

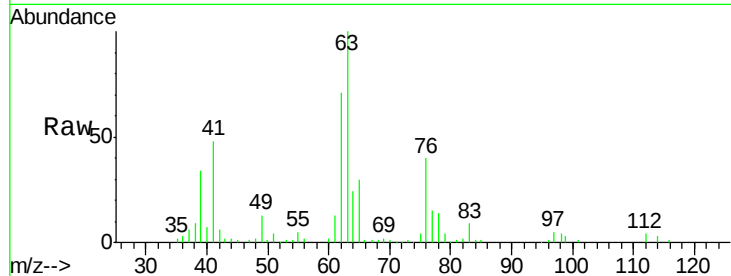
65 30.0 25.0 37.4

Manual Integrations

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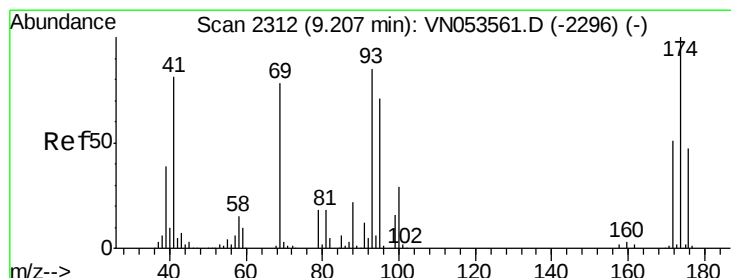
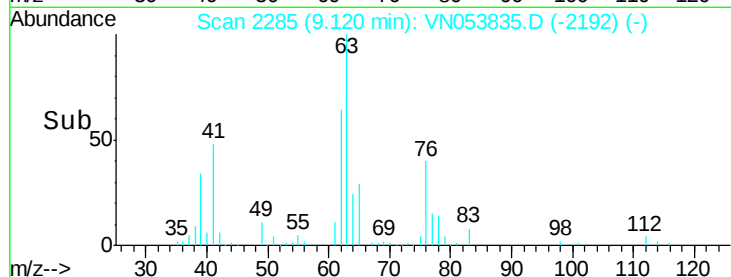
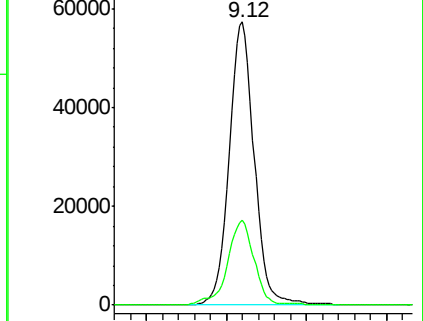
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 18.525 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

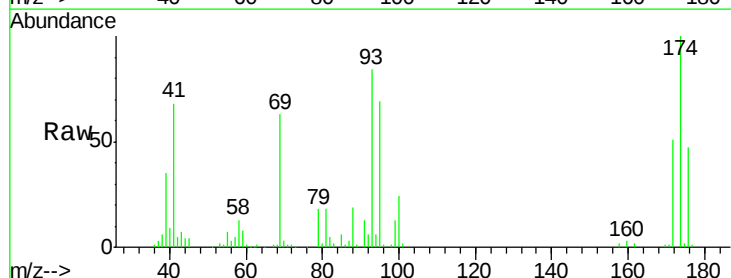
Tgt Ion: 93 Resp: 73257

Ion Ratio Lower Upper

93 100

95 81.3 67.3 100.9

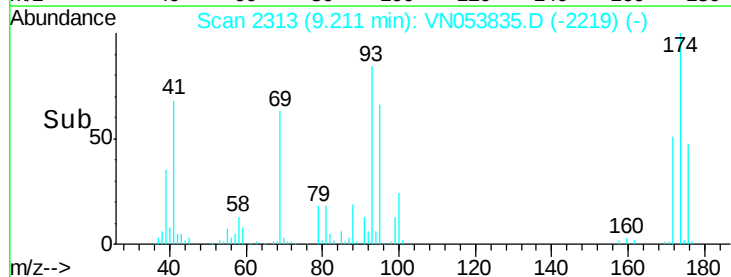
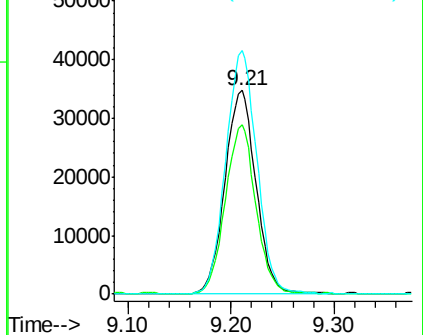
174 119.4 91.0 136.4



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





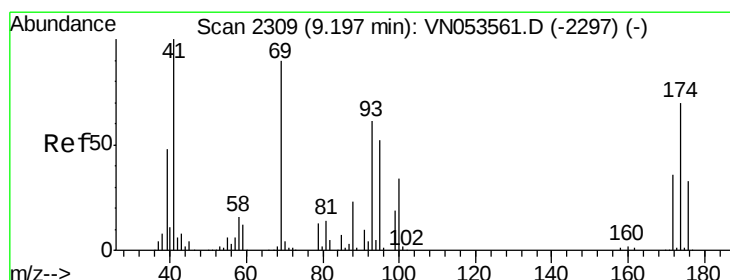
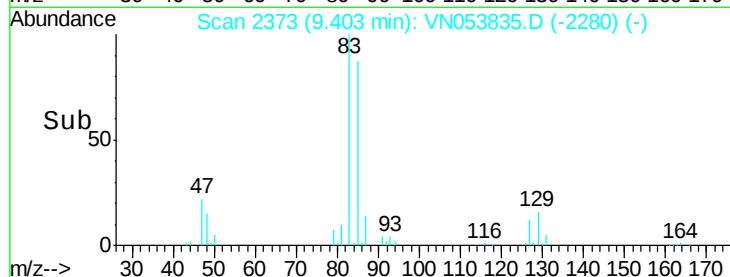
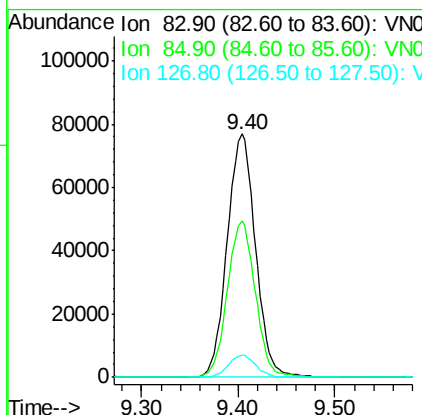
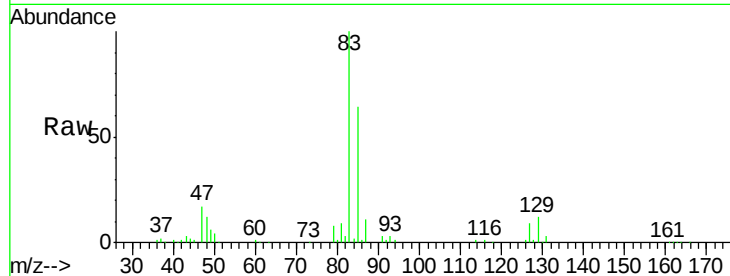
#47
Bromodichloromethane
Concen: 19.075 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	83	Resp	156838
Ion Ratio	100	Lower	Upper
83	100		
85	64.4	51.0	76.6
127	9.2	7.0	10.6

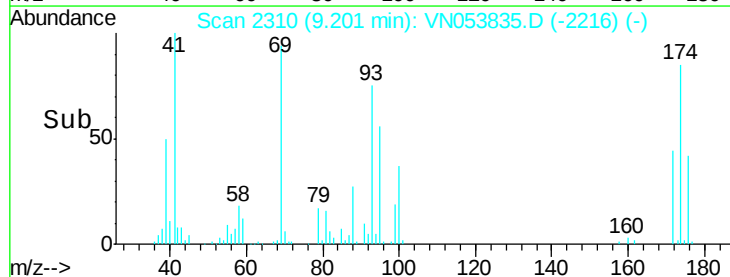
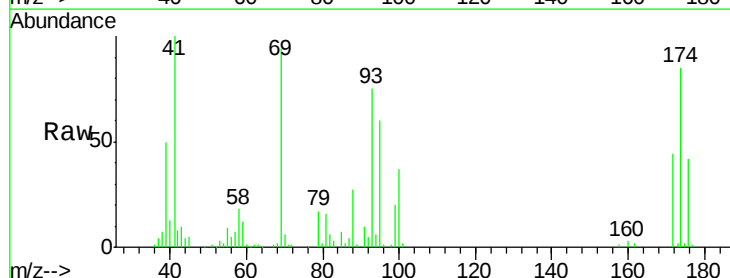
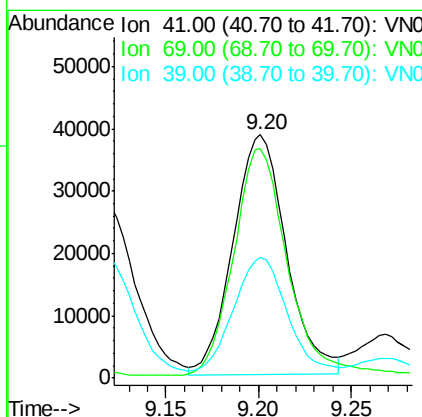
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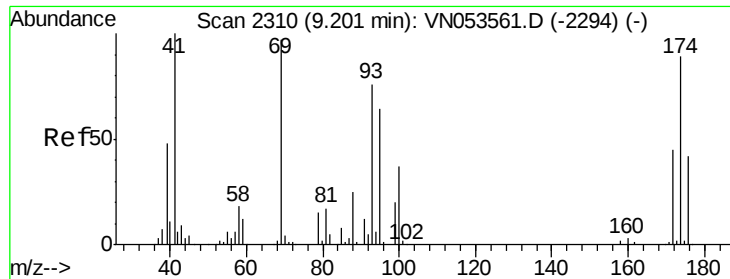
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#48
Methyl methacrylate
Concen: 18.111 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	41	Resp	77555
Ion Ratio	100	Lower	Upper
41	100		
69	96.3	73.8	110.6
39	51.6	40.0	60.0





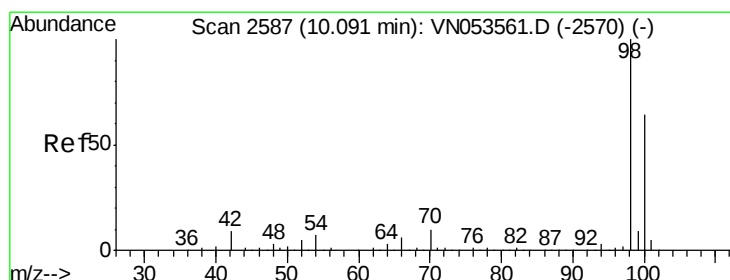
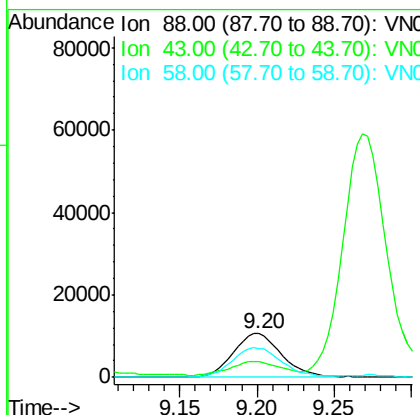
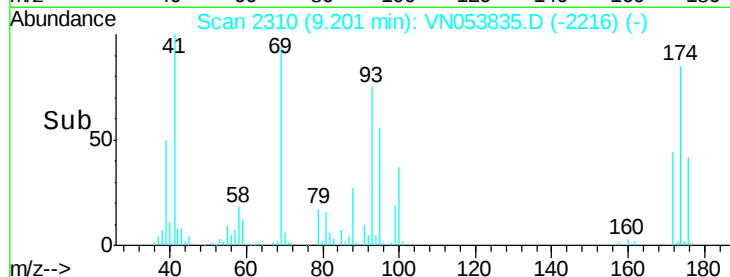
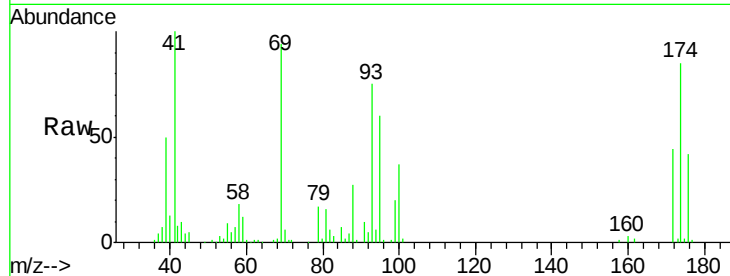
#49
1,4-Dioxane
Concen: 397.296 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.3	27.8	41.6
58	69.3	56.5	84.7

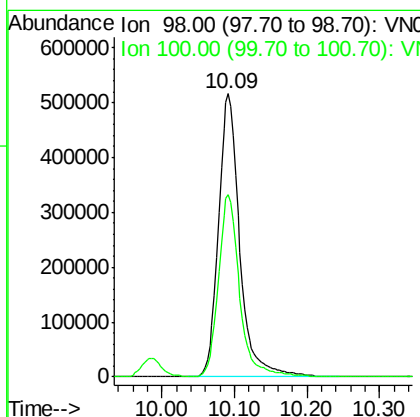
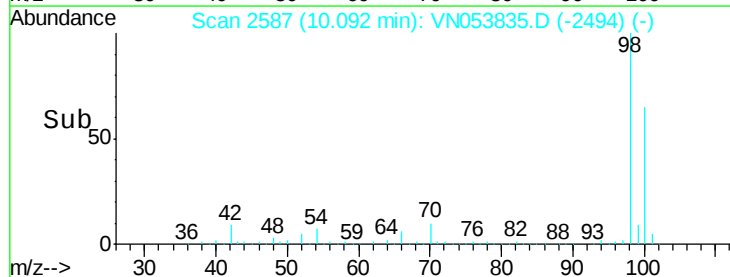
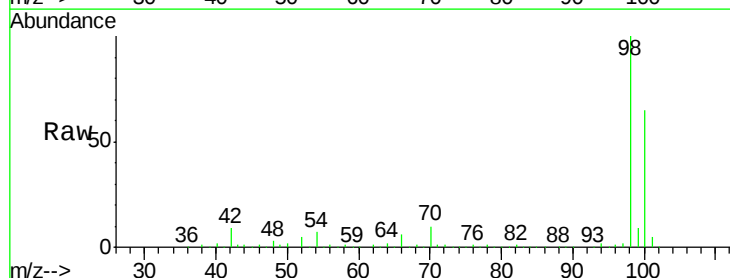
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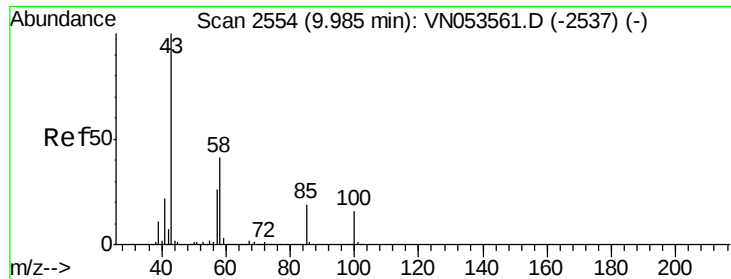
MMDadoda
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#50
Toluene-d8
Concen: 47.746 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 98.403 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleID :

VN0218WBSD01

Tot Ion: 43 Resp: 433791

Ion Ratio Lower Upper

43 100

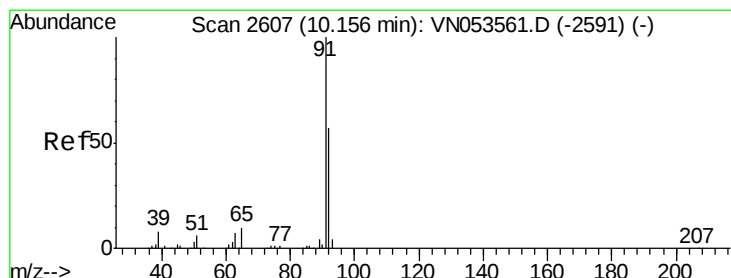
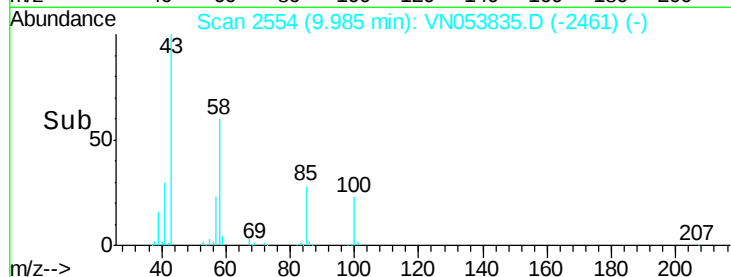
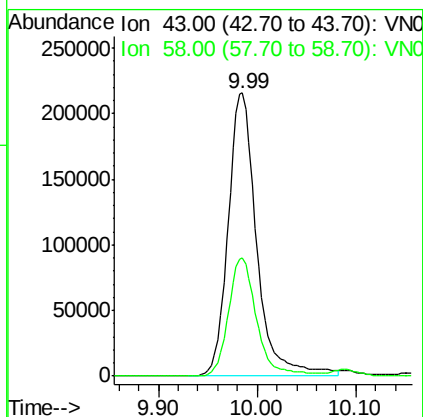
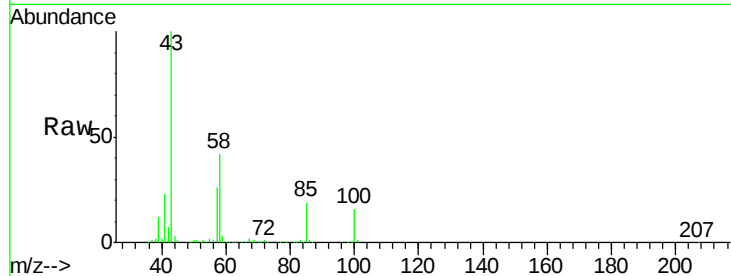
58 41.7 32.8 49.2

Manual Integrations

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#52

Toluene

Concen: 18.127 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053835.D

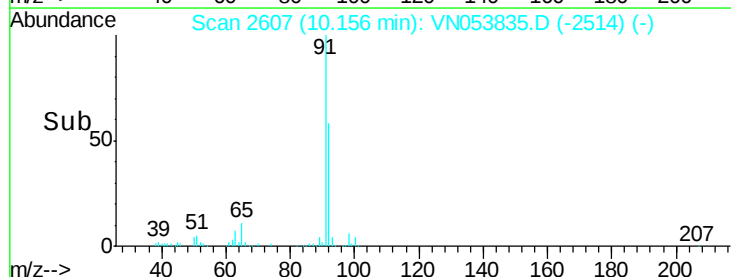
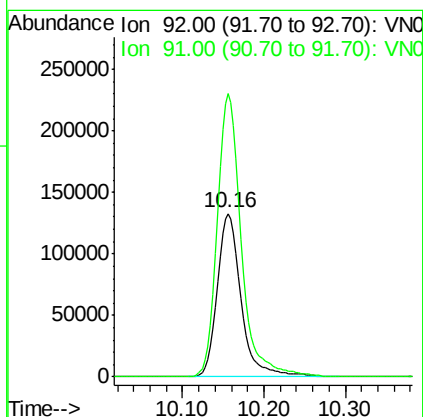
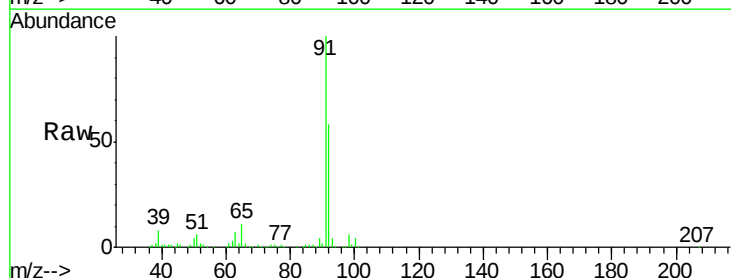
Acq: 18 Feb 2019 11:37

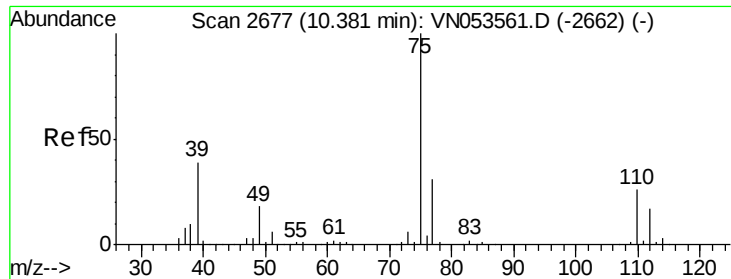
Tgt Ion: 92 Resp: 275930

Ion Ratio Lower Upper

92 100

91 174.5 139.9 209.9





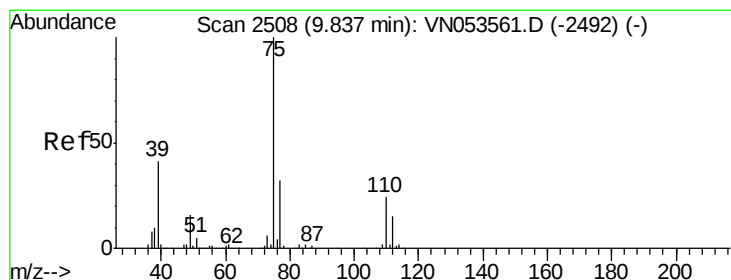
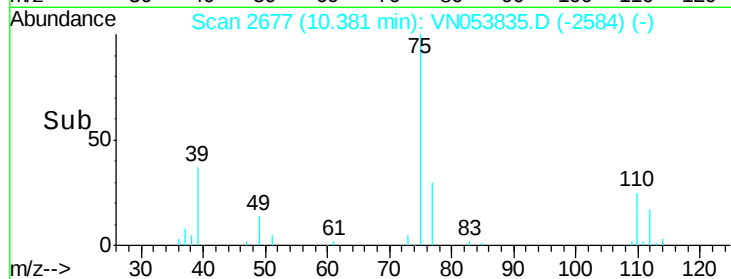
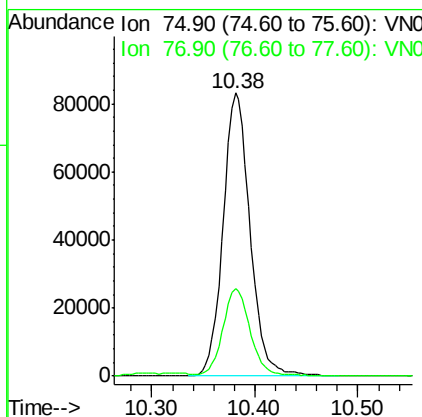
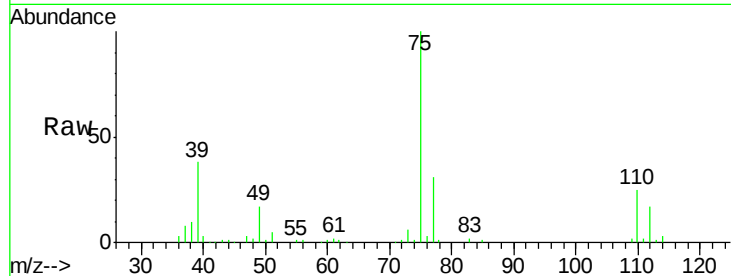
#53
t-1,3-Dichloropropene
Concen: 18.416 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion: 75 Resp: 151623
Ion Ratio Lower Upper
75 100
77 30.6 25.5 38.3

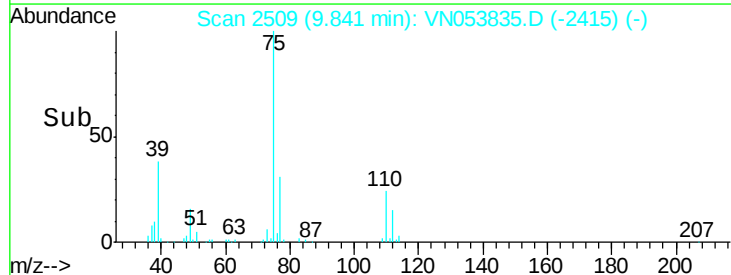
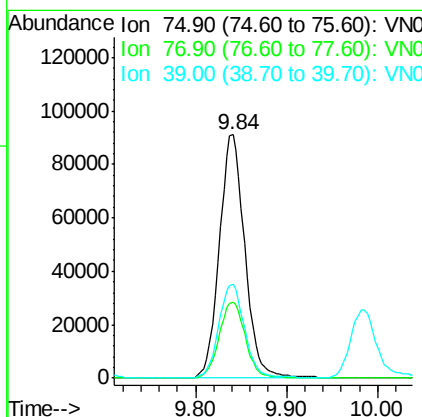
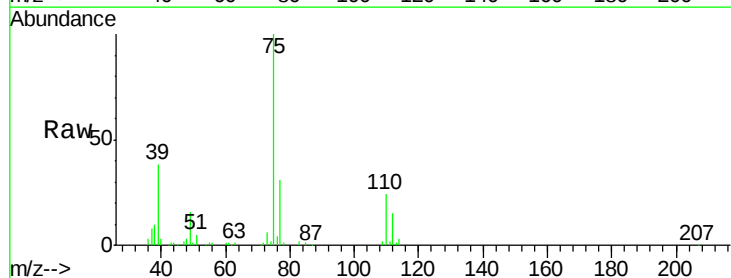
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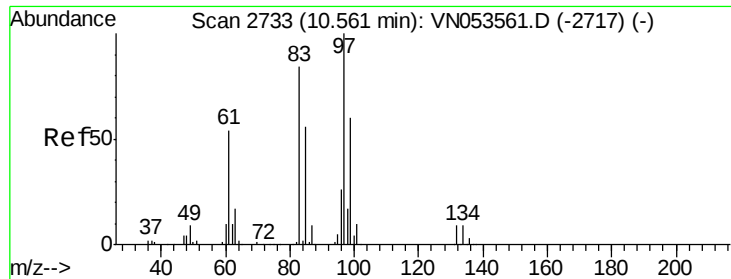
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#54
cis-1,3-Dichloropropene
Concen: 18.170 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion: 75 Resp: 177270
Ion Ratio Lower Upper
75 100
77 31.1 25.8 38.6
39 38.3 33.4 50.0





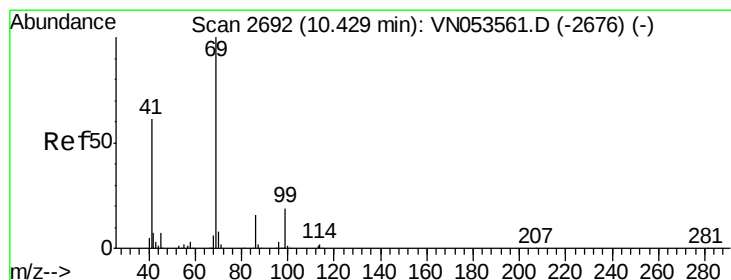
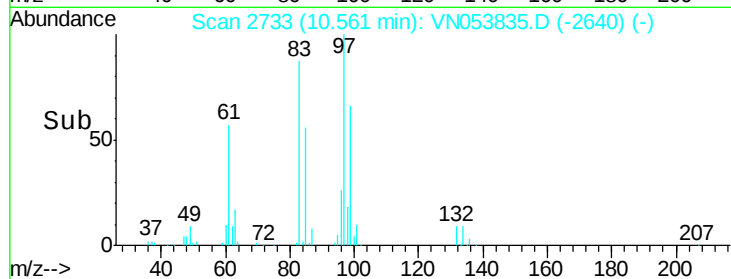
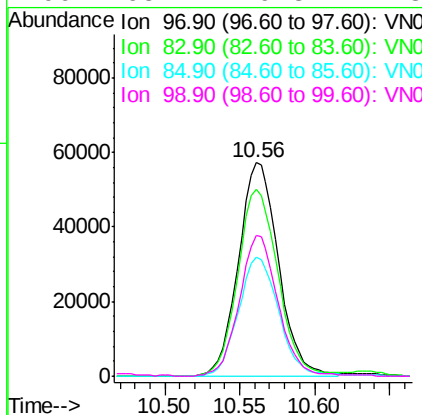
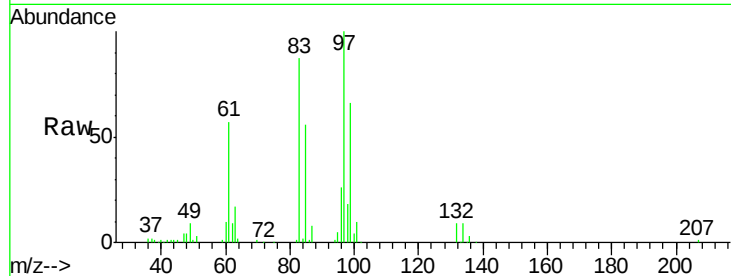
#55
 1,1,2-Trichloroethane
 Concen: 19.440 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0218WBSD01

Tot Ion:	97	Resp:	106628
Ion	Ratio	Lower	Upper
97	100		
83	87.3	70.1	105.1
85	55.8	45.4	68.0
99	65.7	49.8	74.8

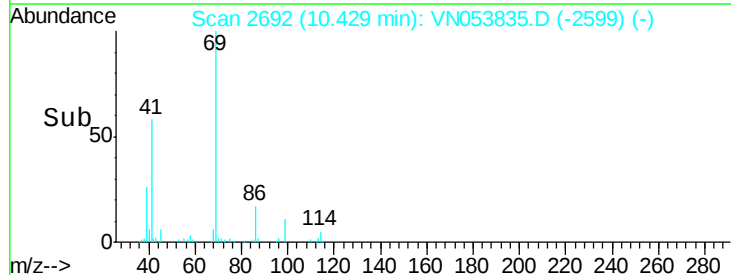
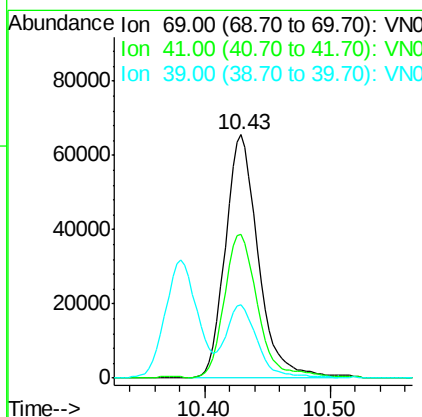
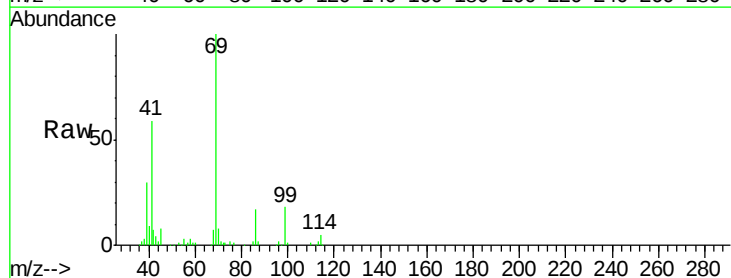
Manual Integrations
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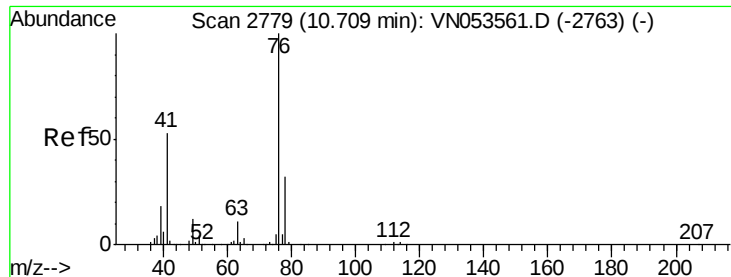
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#56
 Ethyl methacrylate
 Concen: 18.533 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion:	69	Resp:	120261
Ion	Ratio	Lower	Upper
69	100		
41	59.3	49.4	74.0
39	29.3	23.3	34.9





#57

1,3-Dichloropropane

Concen: 18.565 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

VN0218WBSD01

Tot Ion: 76 Resp: 174031

Ion Ratio Lower Upper

76 100

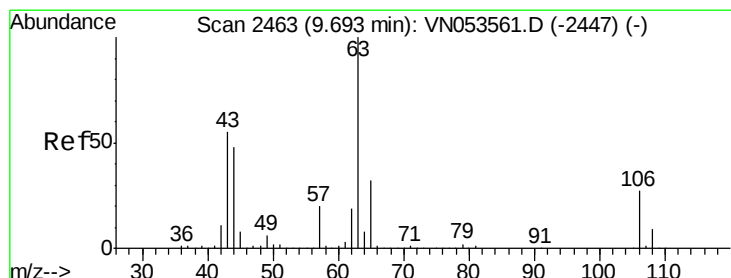
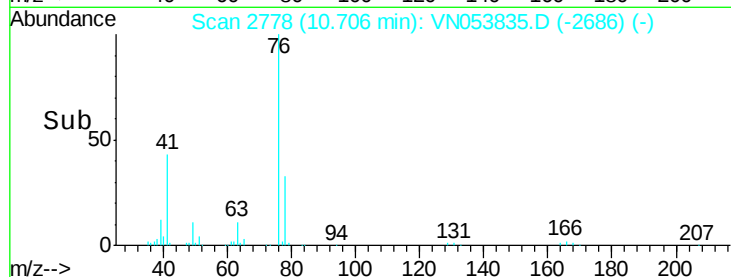
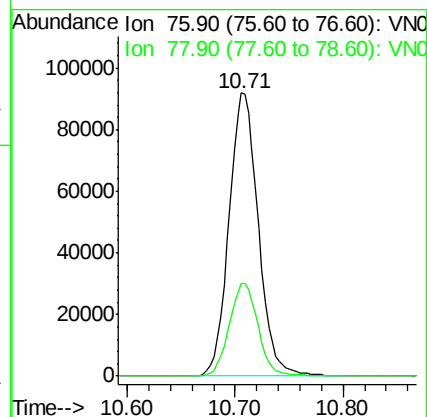
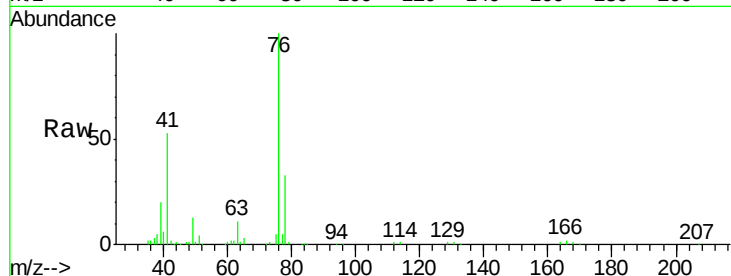
78 32.3 25.6 38.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 73.392 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053835.D

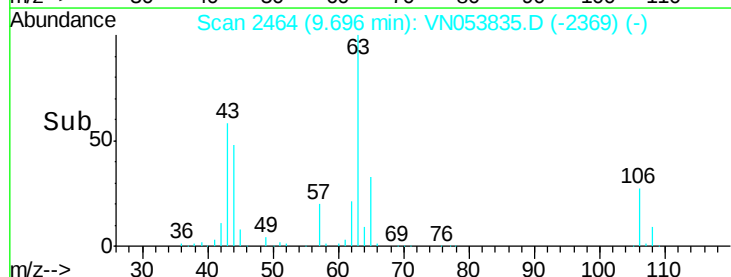
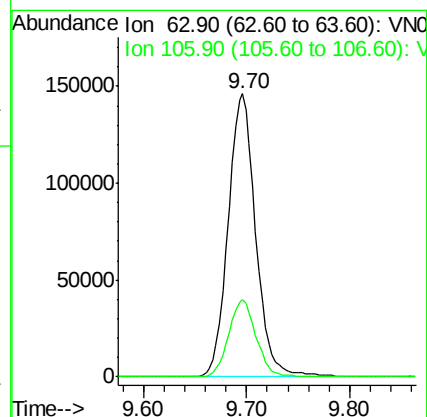
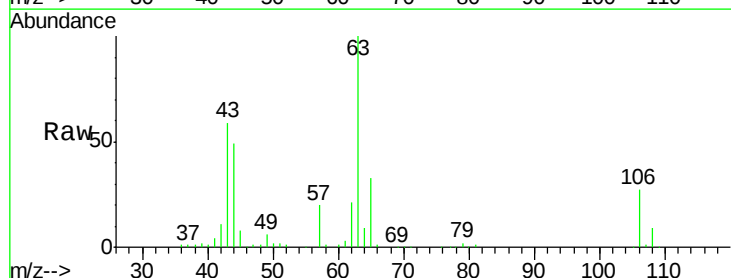
Acq: 18 Feb 2019 11:37

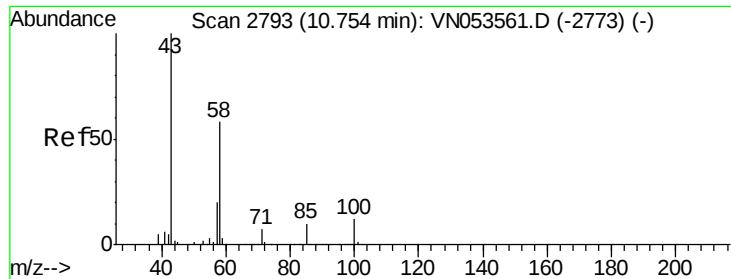
Tgt Ion: 63 Resp: 271828

Ion Ratio Lower Upper

63 100

106 27.2 21.5 32.3





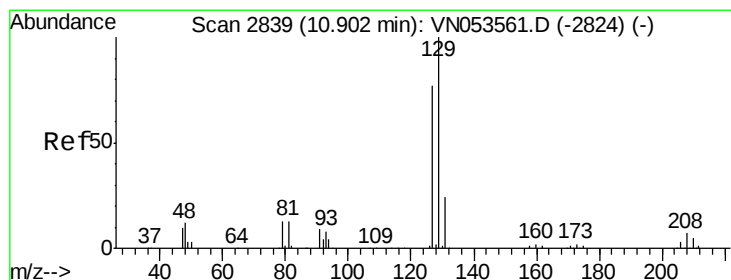
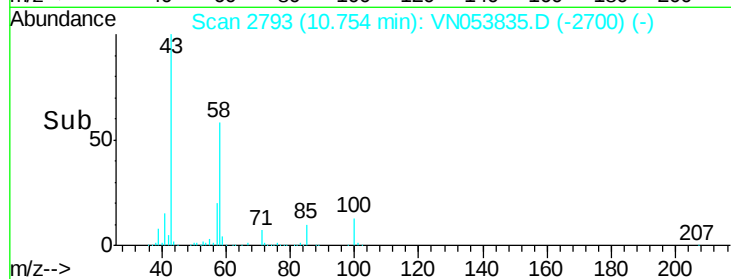
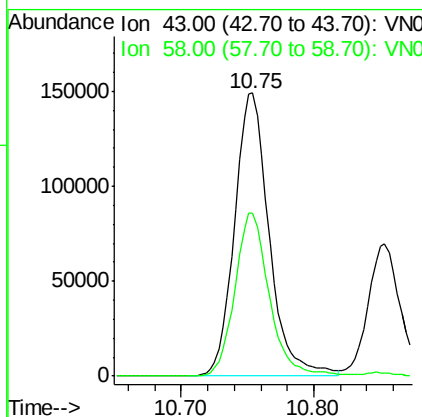
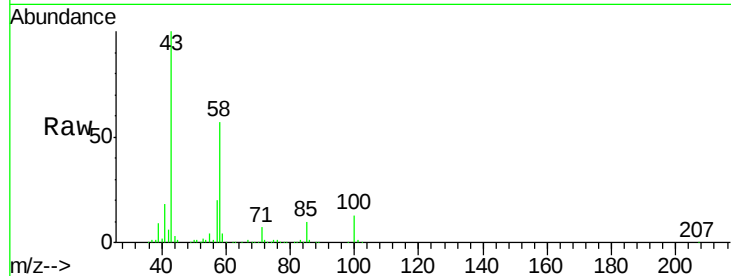
#59
2-Hexanone
Concen: 89.748 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion: 43 Resp: 268584
Ion Ratio Lower Upper
43 100
58 57.7 28.6 85.8

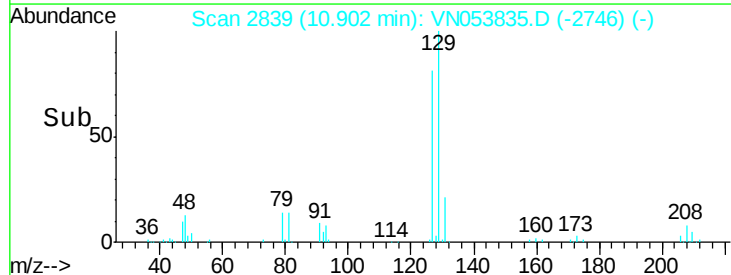
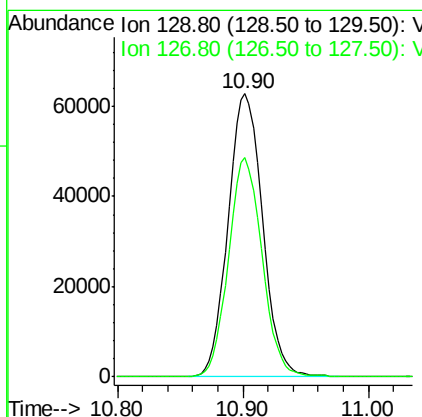
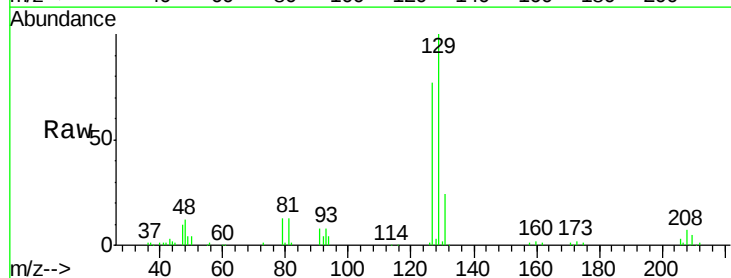
Manual Integrations
APPROVED

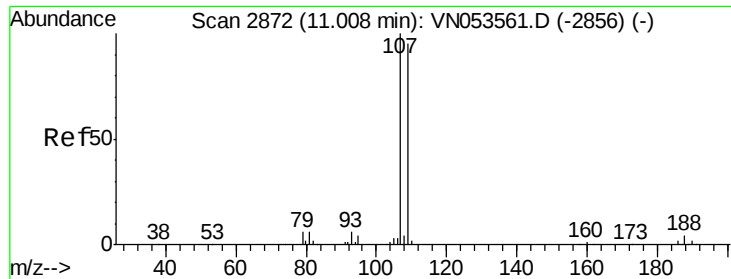
MMDadoda
2/19/2019 12:31:22 PM



#60
Dibromochloromethane
Concen: 19.451 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion: 129 Resp: 120311
Ion Ratio Lower Upper
129 100
127 75.4 38.6 115.8





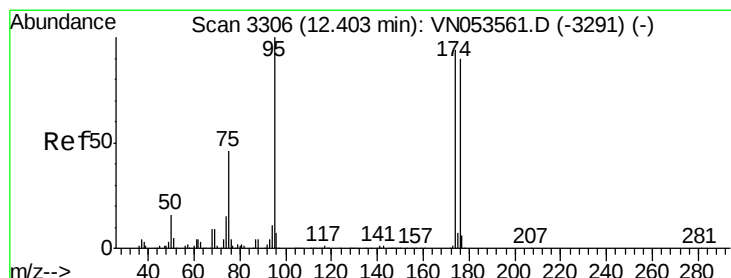
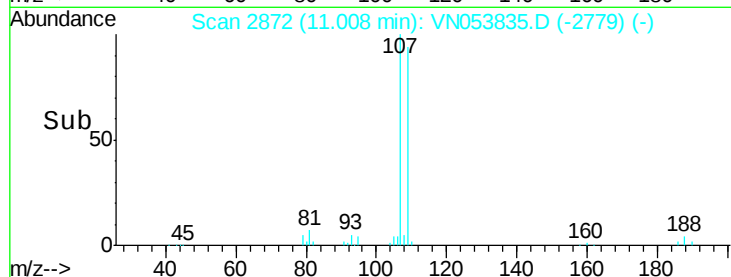
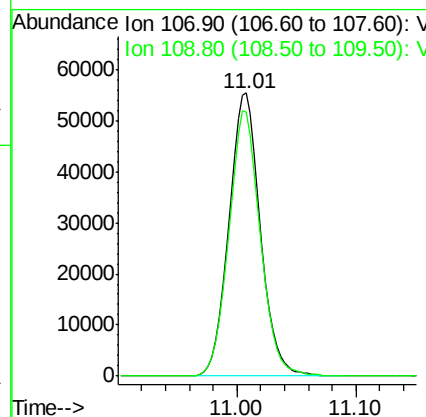
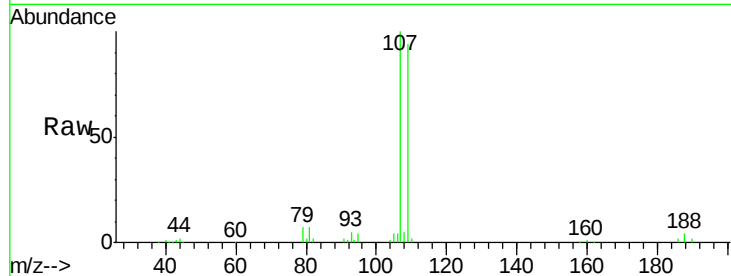
#61
 1,2-Dibromoethane
 Concen: 18.587 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.7	113.5

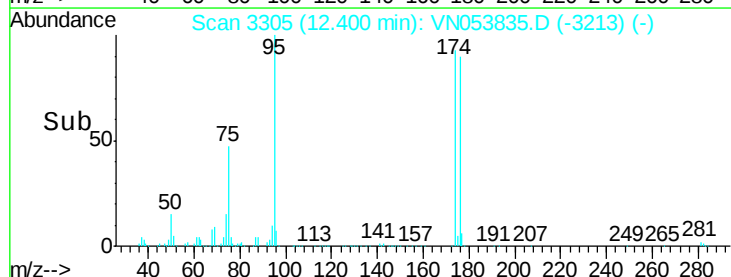
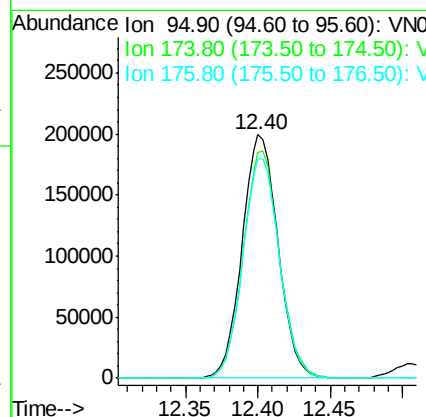
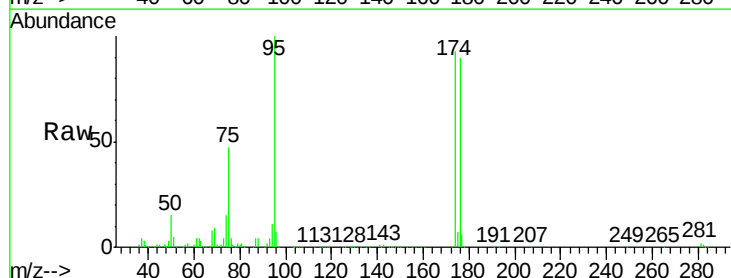
Manual Integrations
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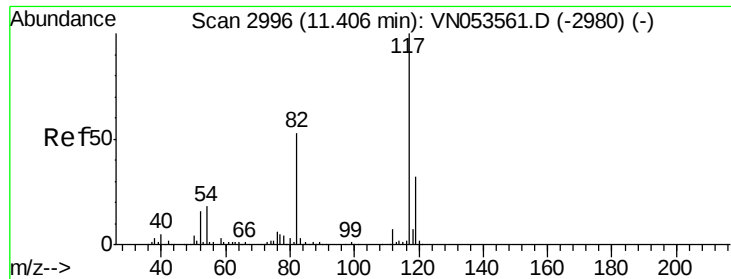
MMDadoda
 2/19/2019 12:31:22 PM



#62
 4-Bromofluorobenzene
 Concen: 46.990 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.9	0.0	183.2
176	91.6	0.0	177.4





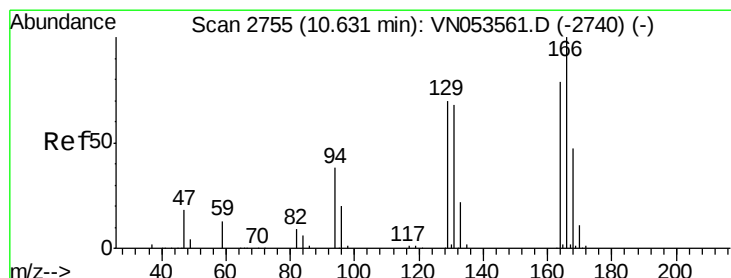
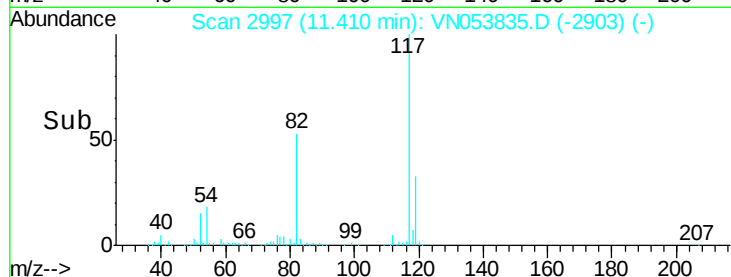
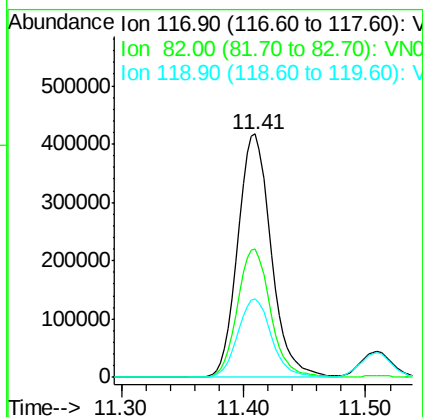
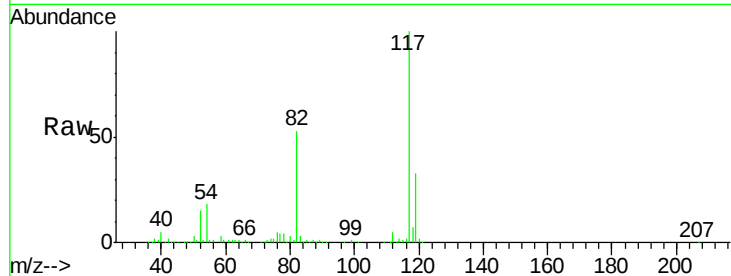
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	789067		
82	52.7		42.9	64.3
119	32.5		26.0	39.0

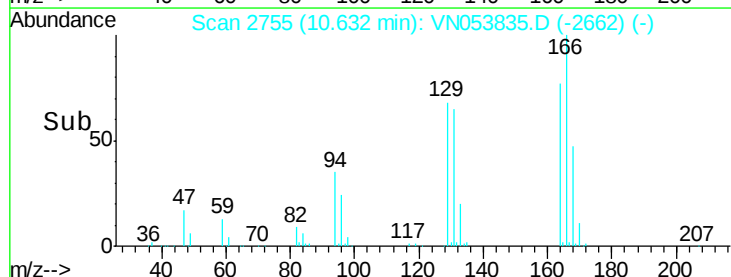
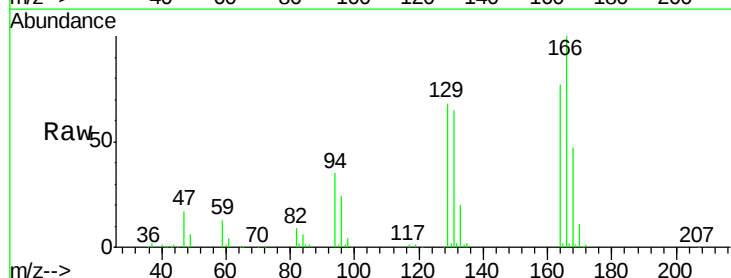
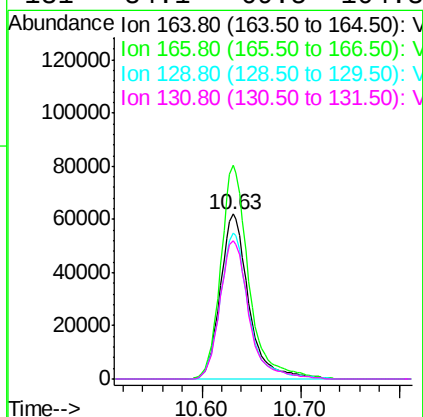
Manual Integrations
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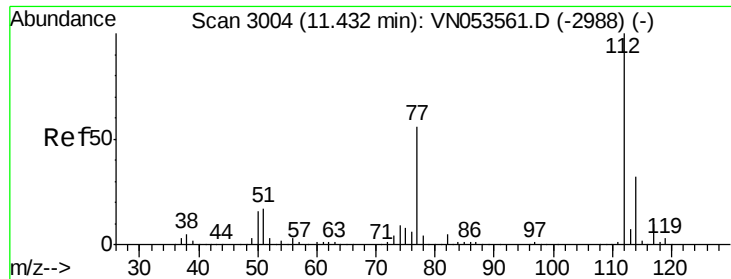
MMDadoda
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#64
Tetrachloroethene
Concen: 18.466 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	124903		
166	129.5		102.2	153.4
129	88.5		72.6	109.0
131	84.1		69.5	104.3





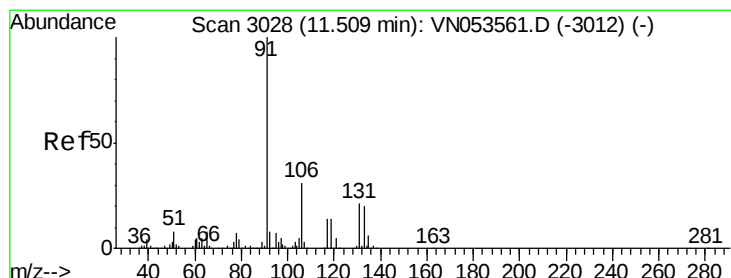
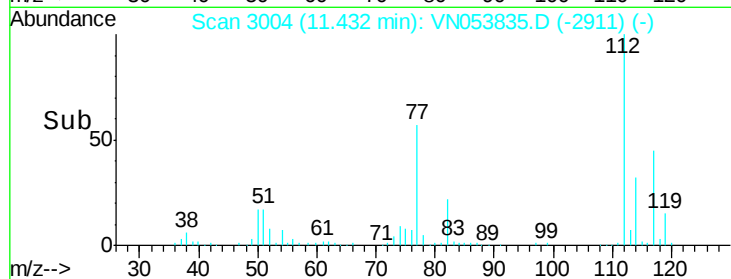
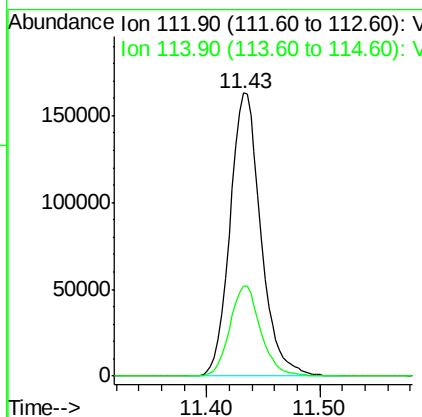
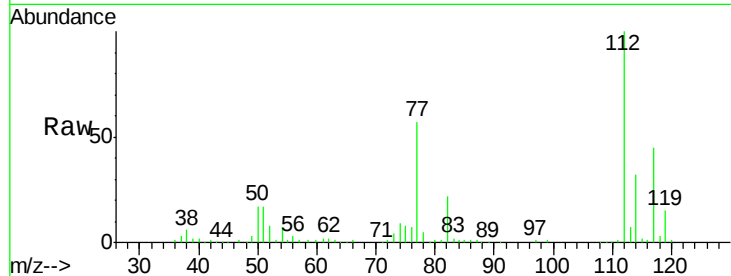
#65
Chlorobenzene
Concen: 18.455 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampled :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.3	37.9

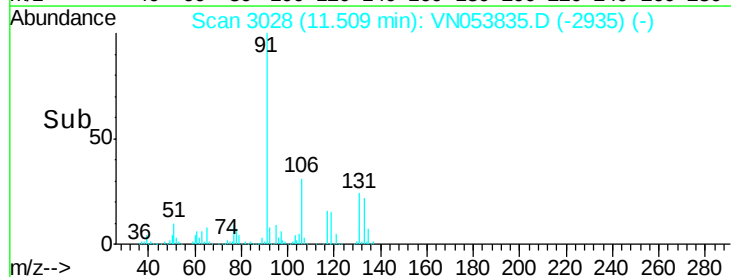
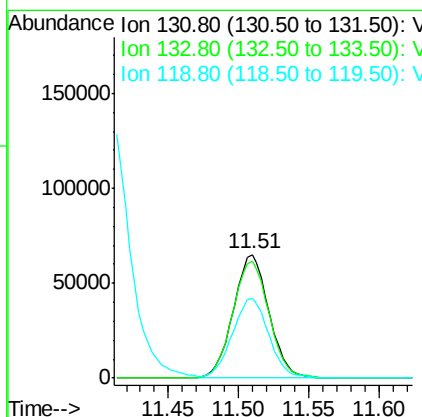
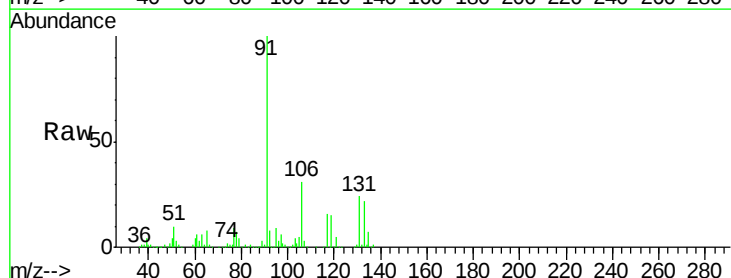
Manual Integrations
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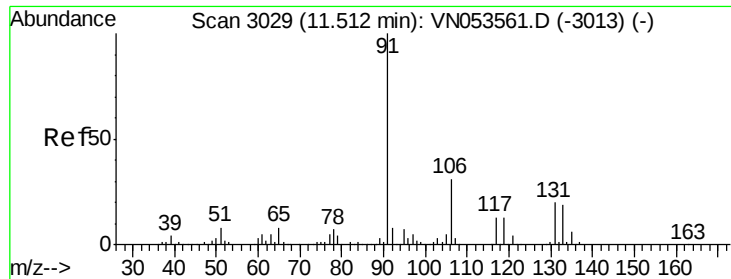
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.734 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.6	48.0	144.0
119	66.0	33.5	100.5





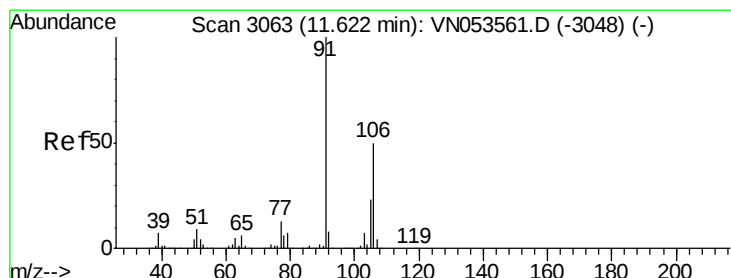
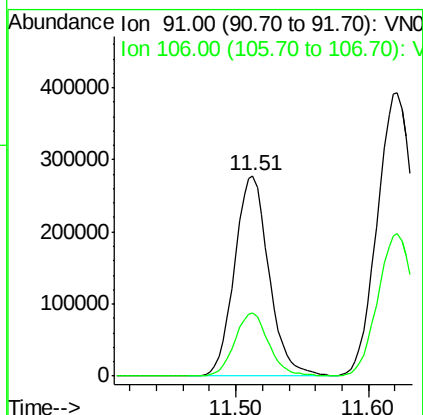
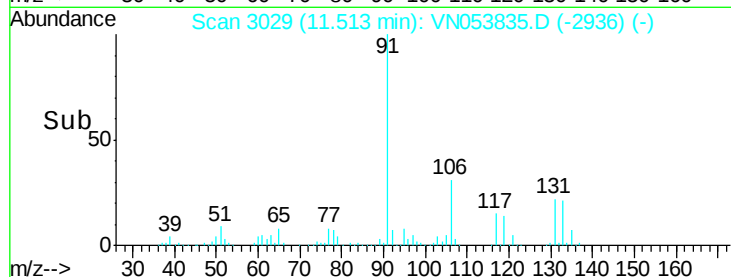
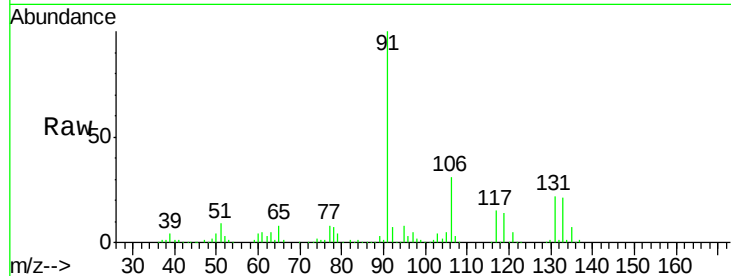
#67
Ethyl Benzene
Concen: 18.158 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion: 91 Resp: 499932
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.6

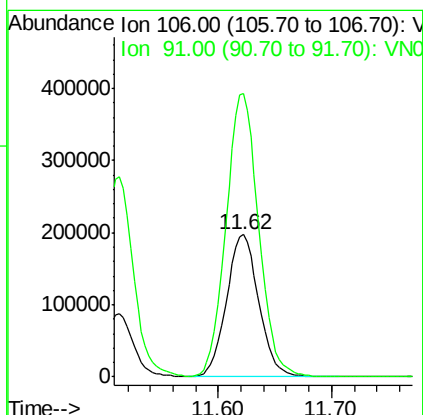
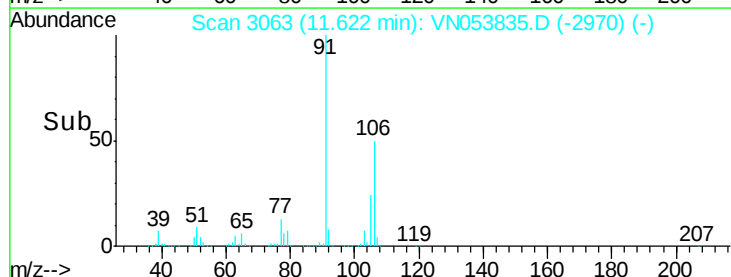
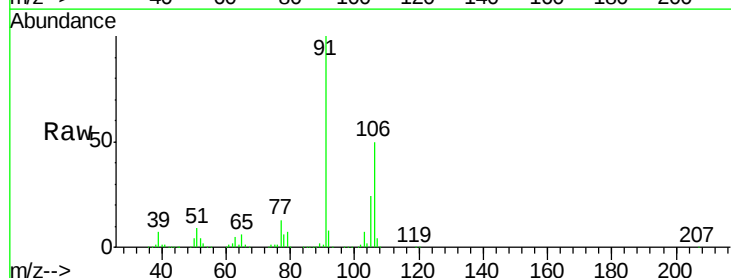
Manual Integrations
APPROVED

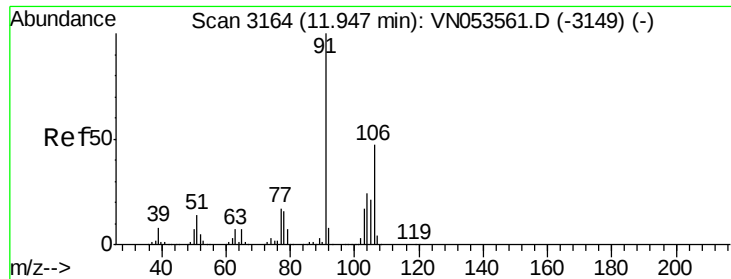
MMDadoda
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#68
m/p-Xylenes
Concen: 37.310 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion: 106 Resp: 392061
Ion Ratio Lower Upper
106 100
91 200.3 161.4 242.2





#69

o-Xylene

Concen: 19.010 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion:106 Resp: 192984

Ion Ratio Lower Upper

106 100

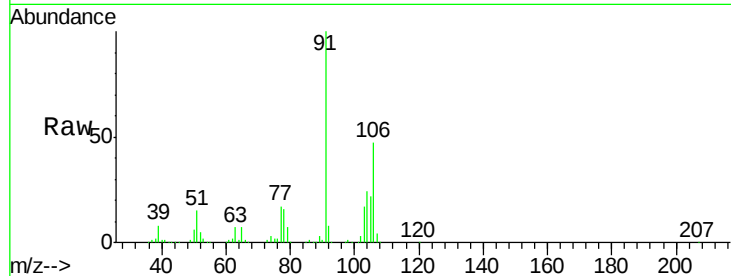
91 211.5 106.9 320.8

Manual Integrations

APPROVED

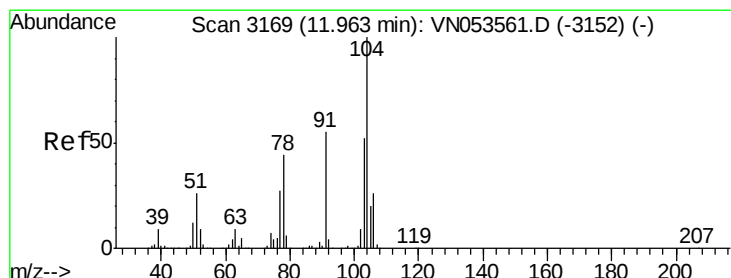
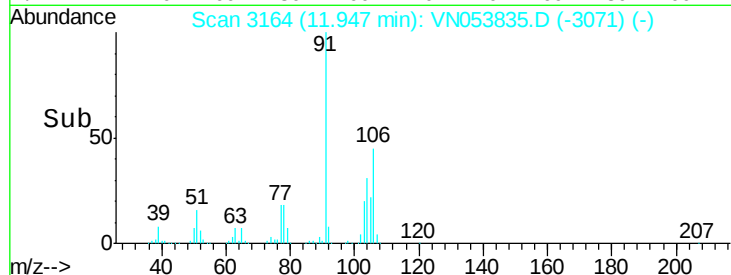
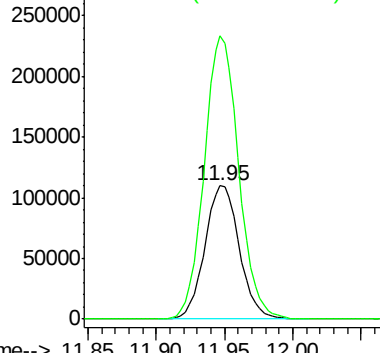
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 18.568 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

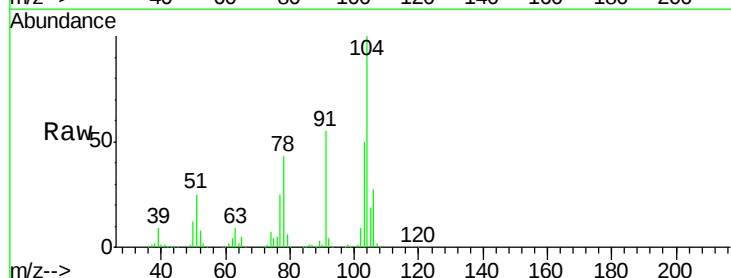
Tgt Ion:104 Resp: 305527

Ion Ratio Lower Upper

104 100

78 47.4 38.2 57.2

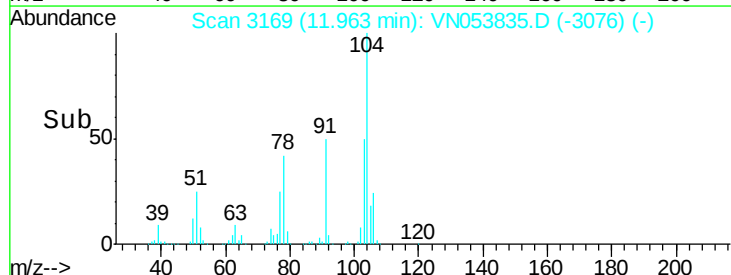
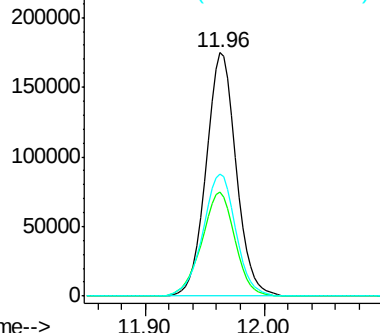
103 55.1 44.4 66.6

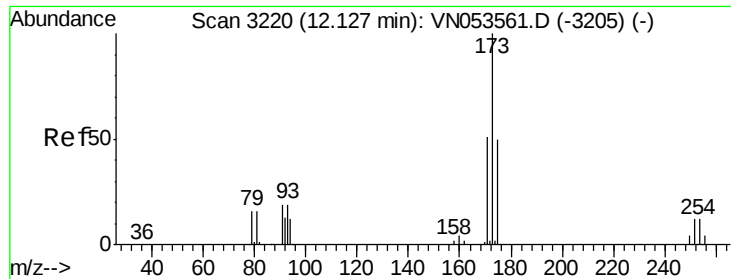


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 20.802 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

VN0218WBSD01

Tot Ion:173 Resp: 83478

Ion Ratio Lower Upper

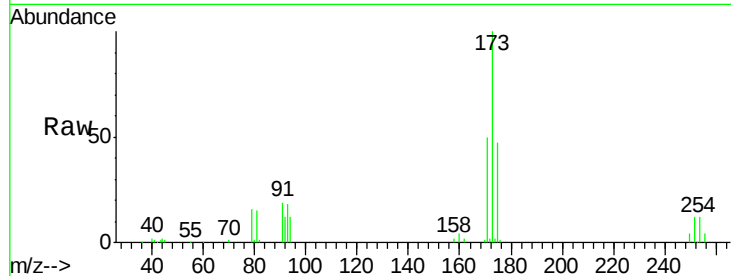
173 100

175 47.1 24.6 74.0

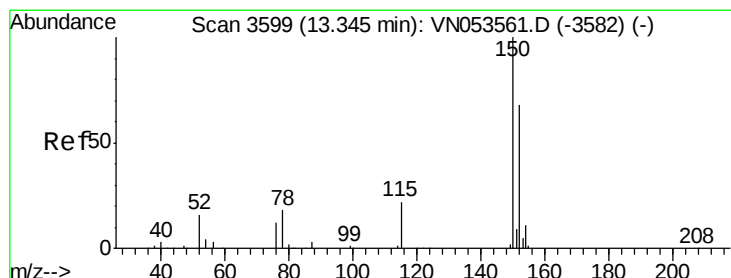
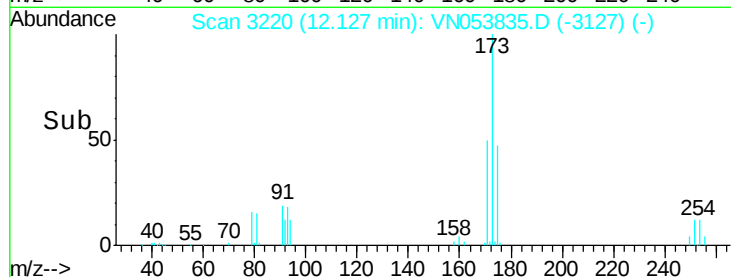
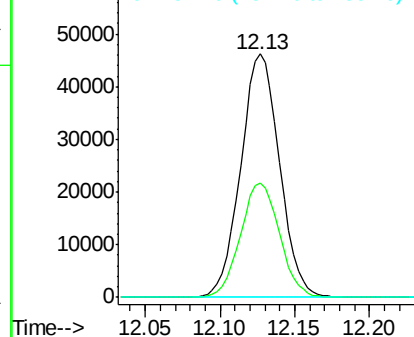
254 0.0 0.2 0.2#

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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: VN053835.D

Acq: 18 Feb 2019 11:37

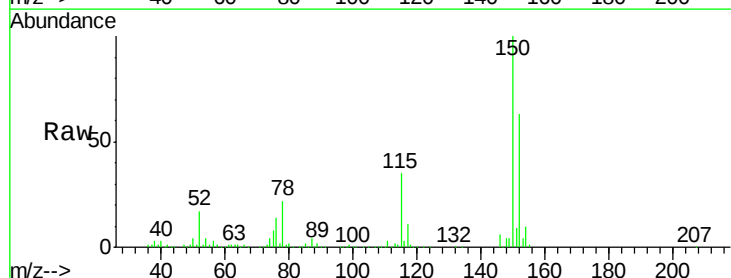
Tgt Ion:152 Resp: 366397

Ion Ratio Lower Upper

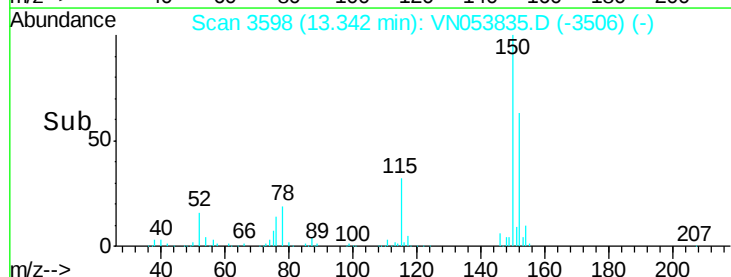
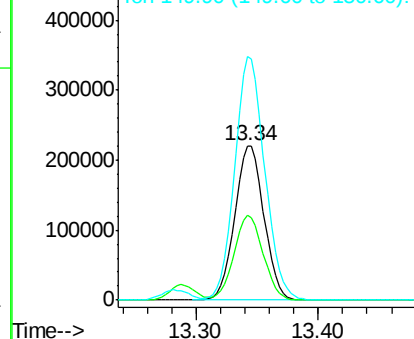
152 100

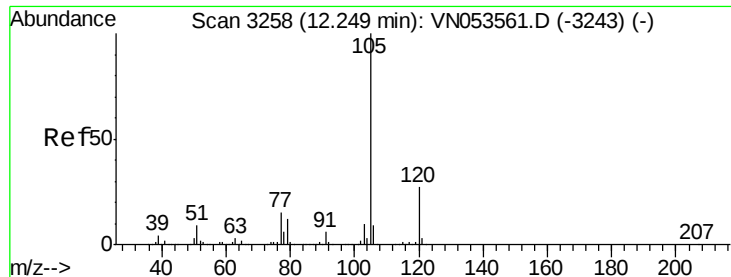
115 54.9 27.8 83.4

150 162.1 0.0 349.0



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: 19.715 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

VN0218WBSD01

Tot Ion: 105 Resp: 507816

Ion Ratio Lower Upper

105 100

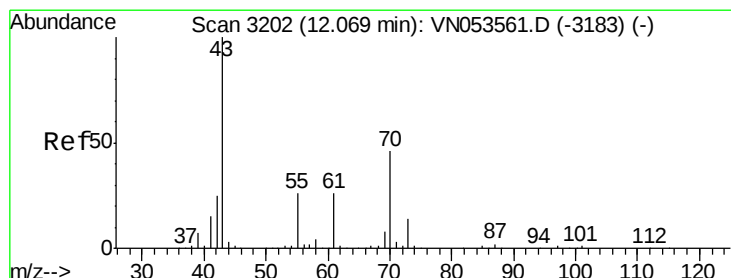
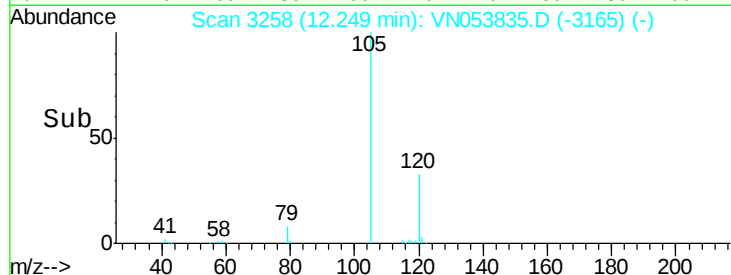
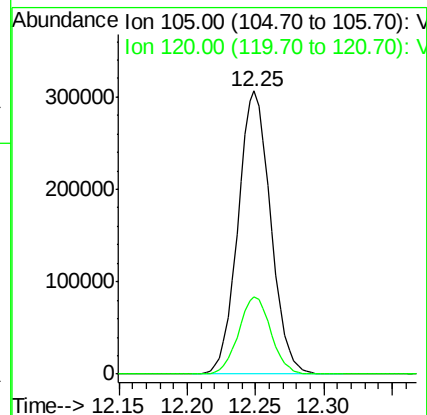
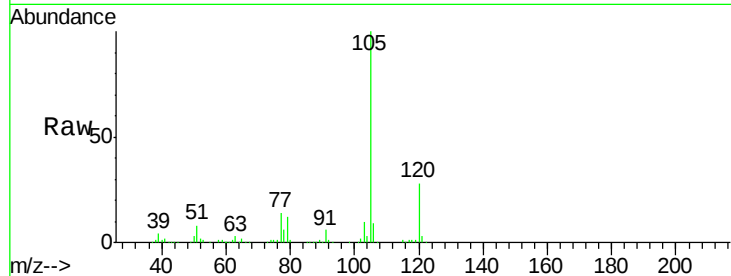
120 27.2 13.6 40.7

Manual Integrations

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#74

N-ethyl acetate

Concen: 18.427 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion: 43 Resp: 114130

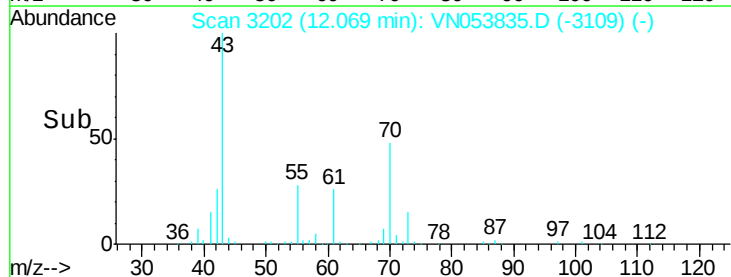
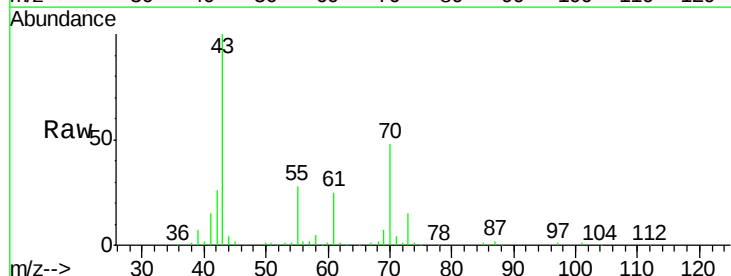
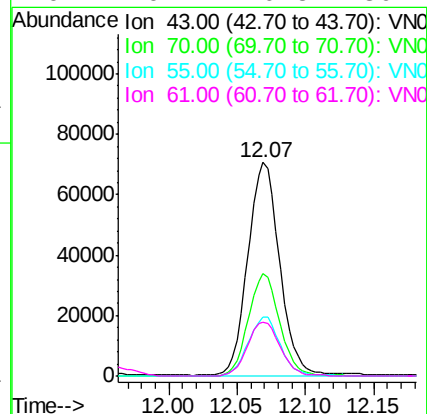
Ion Ratio Lower Upper

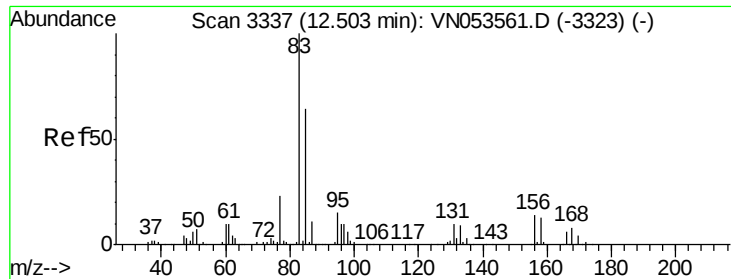
43 100

70 47.1 35.4 53.2

55 28.2 20.9 31.3

61 26.2 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.073 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

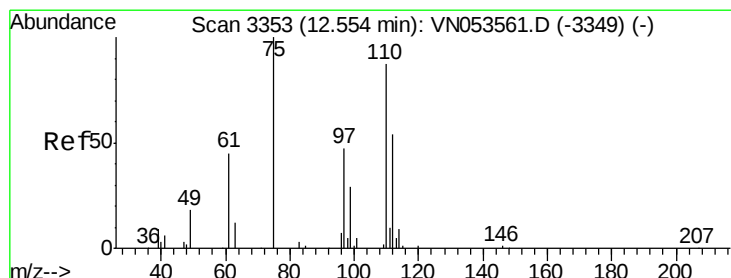
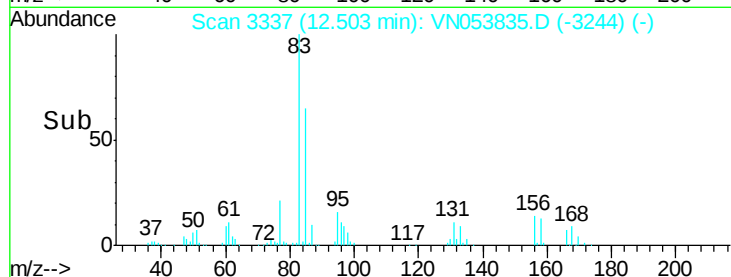
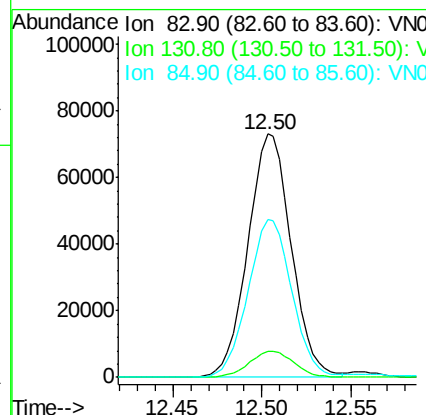
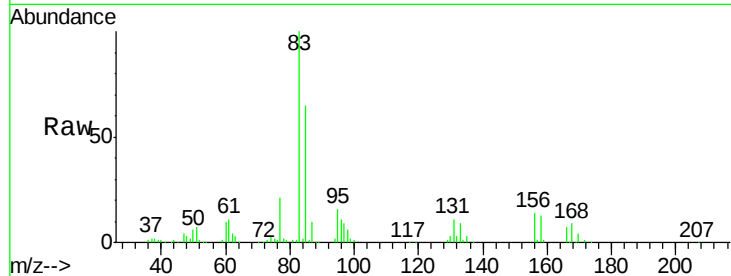
ClientSampleId :

VN0218WBSD01

Tot Ion:	83	Resp:	123739
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.3	15.8
85	65.8	32.1	96.3

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#76

1,2,3-Trichloropropane

Concen: 23.510 ug/l m

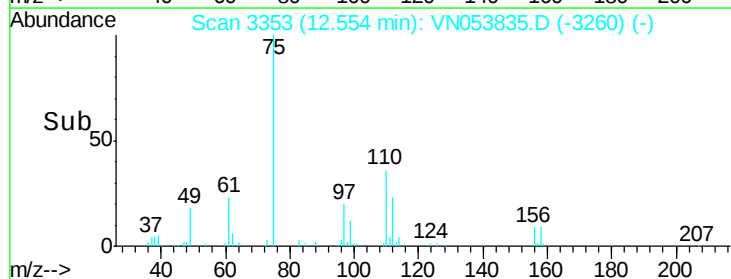
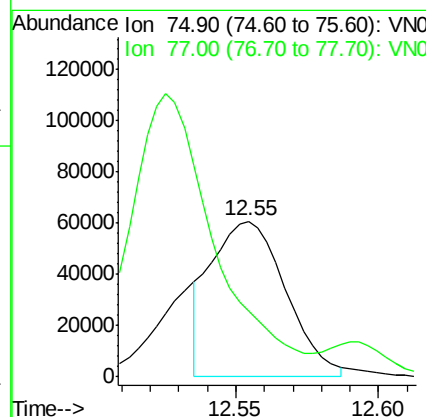
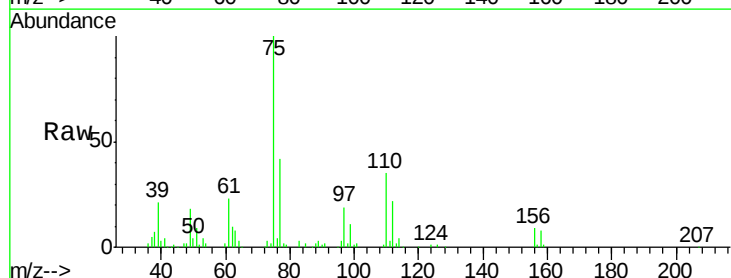
RT: 12.55 min Scan# 3353

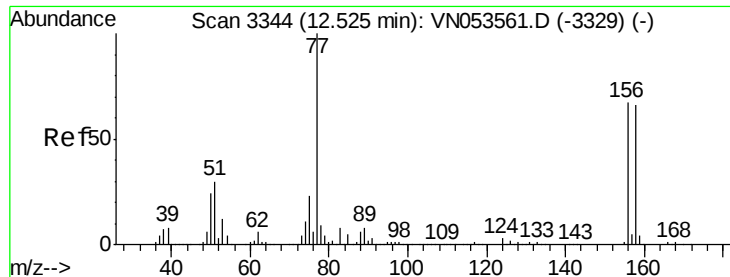
Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	75	Resp:	110643
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.359 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

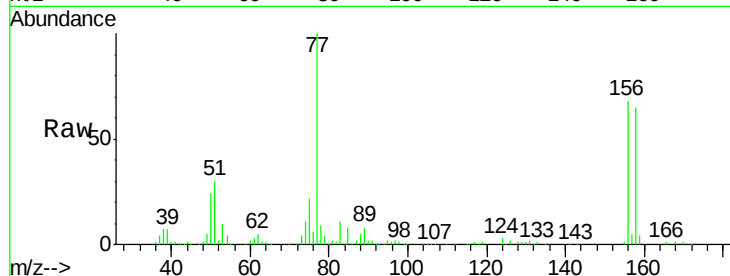
ClientSampleId :

VN0218WBSD01

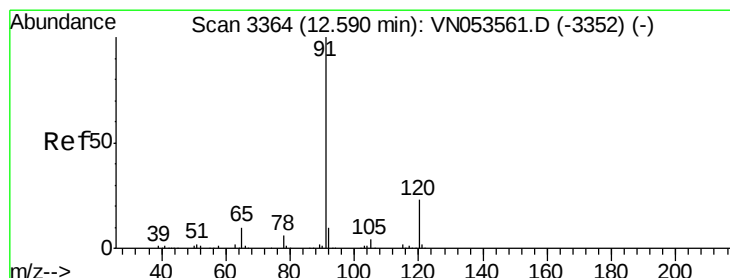
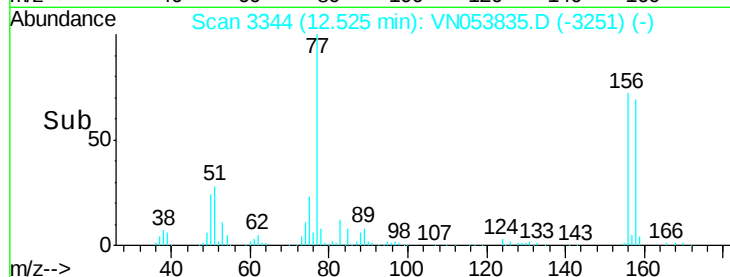
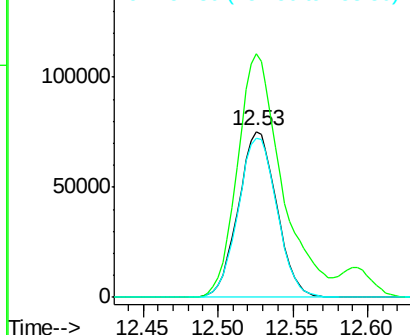
Tot Ion:	156	Resp:	134387
Ion Ratio	Lower	Upper	
156	100		
77	170.4	87.9	263.8
158	97.4	48.8	146.4

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Abundance Ion 155.80 (155.50 to 156.50): V
150000
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.040 ug/l

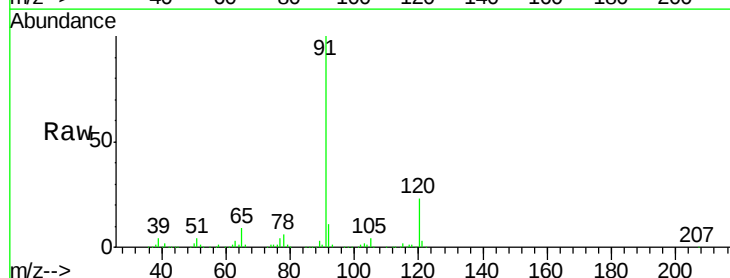
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

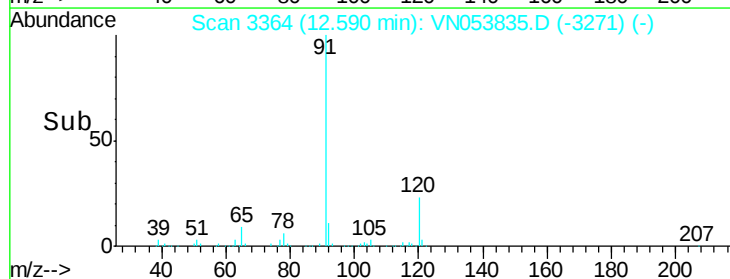
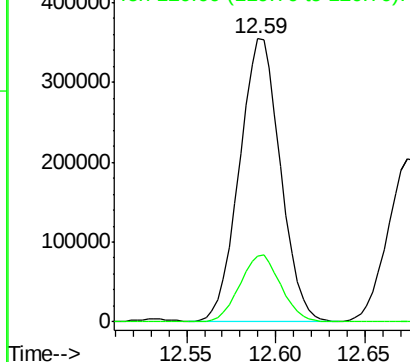
Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Tgt Ion:	91	Resp:	566931
Ion Ratio	Lower	Upper	
91	100		
120	23.9	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VN
400000
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.472 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

VN0218WBSD01

Tot Ion: 91 Resp: 343986

Ion Ratio Lower Upper

91 100

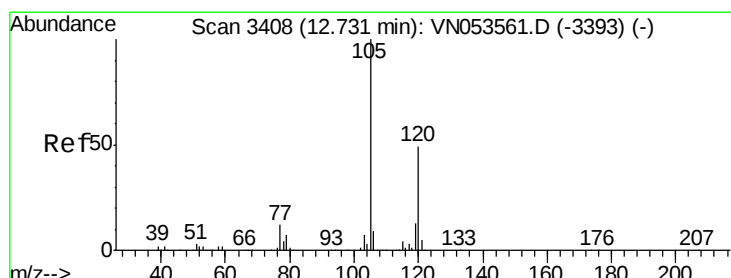
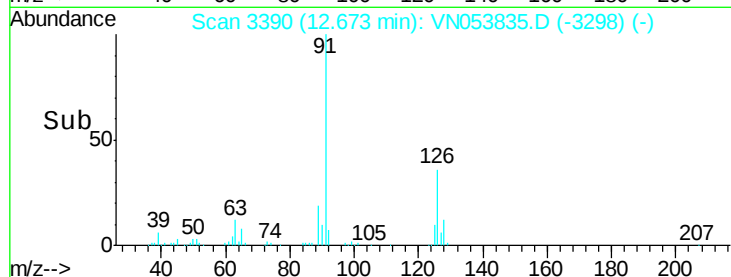
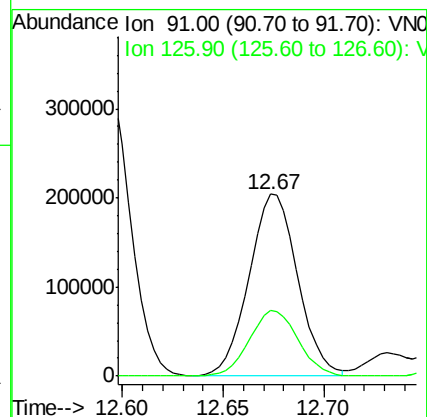
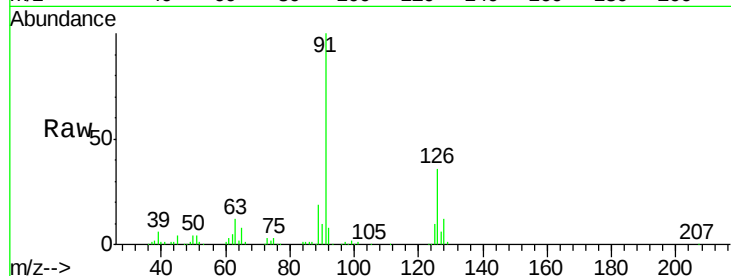
126 36.4 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.799 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053835.D

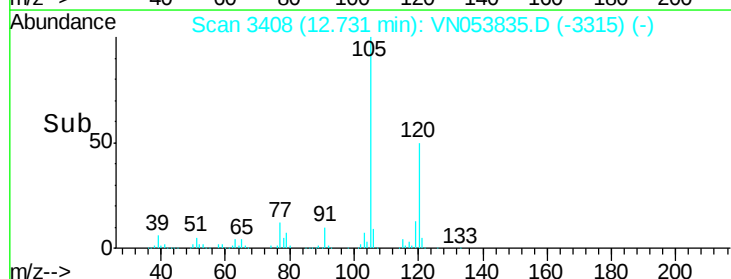
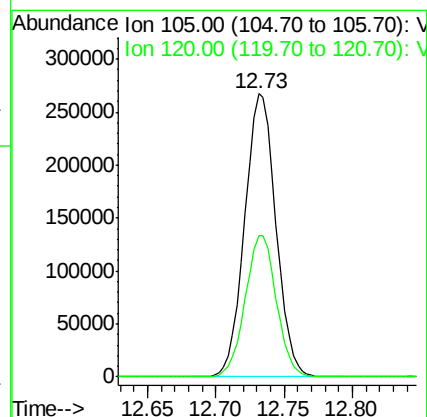
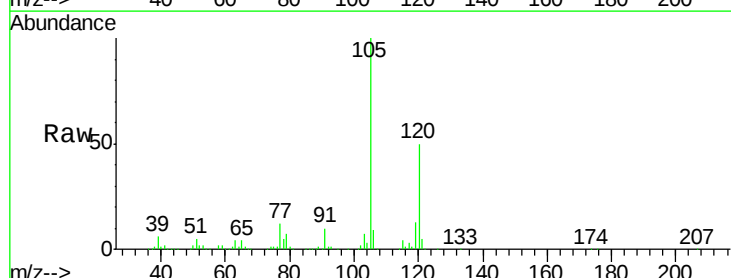
Acq: 18 Feb 2019 11:37

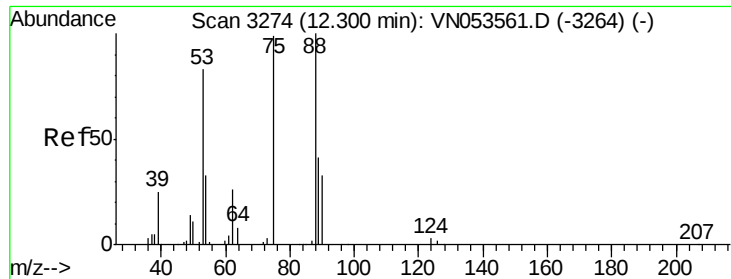
Tgt Ion: 105 Resp: 422887

Ion Ratio Lower Upper

105 100

120 50.1 24.9 74.6





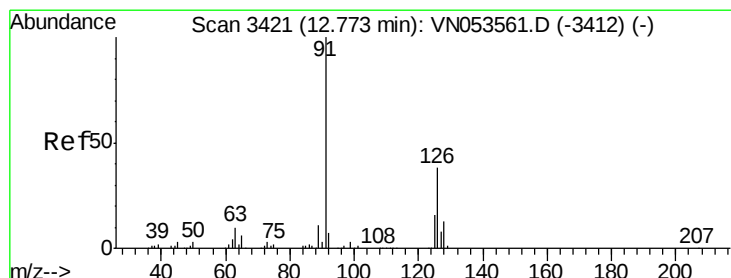
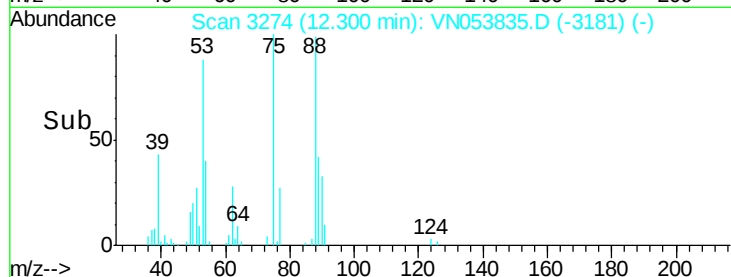
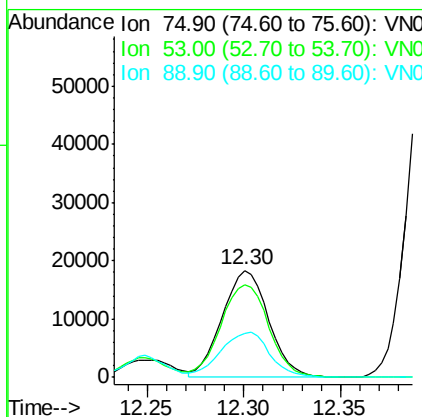
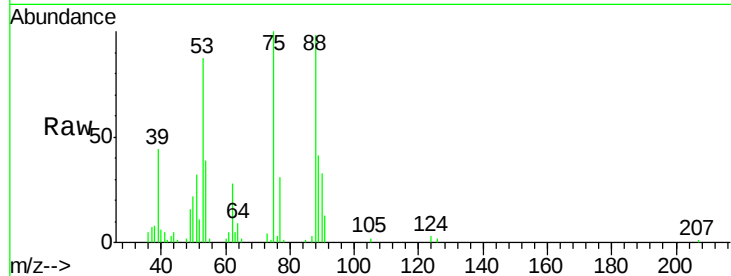
#81
trans-1,4-Dichloro-2-butene
Concen: 18.337 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.2	69.8	104.6
89	44.2	35.6	53.4

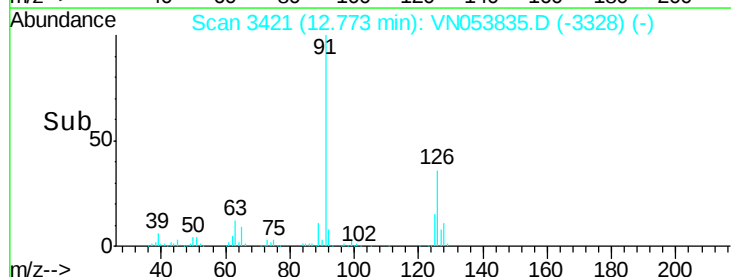
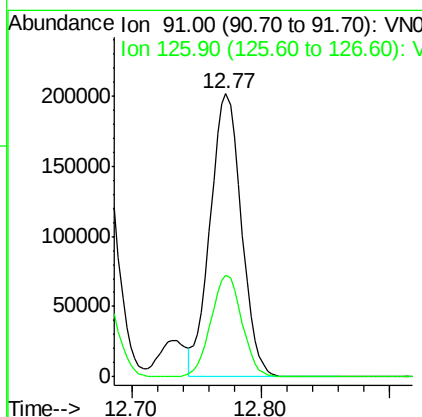
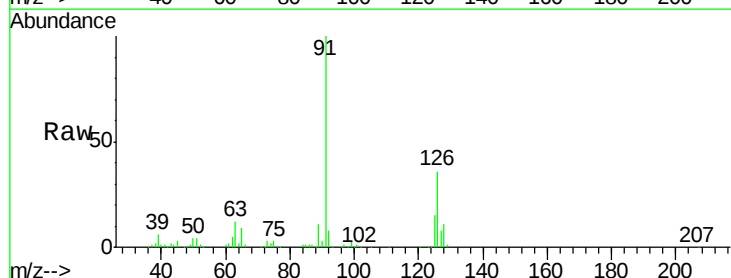
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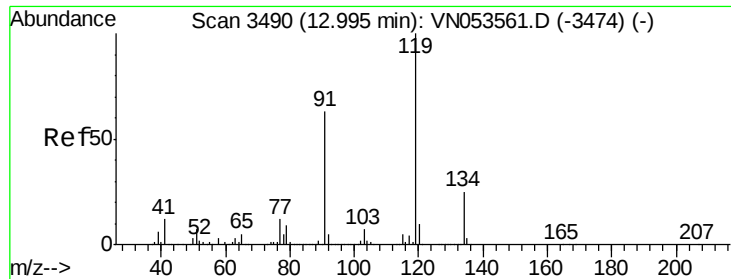
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#82
4-Chlorotoluene
Concen: 18.663 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.6	52.9





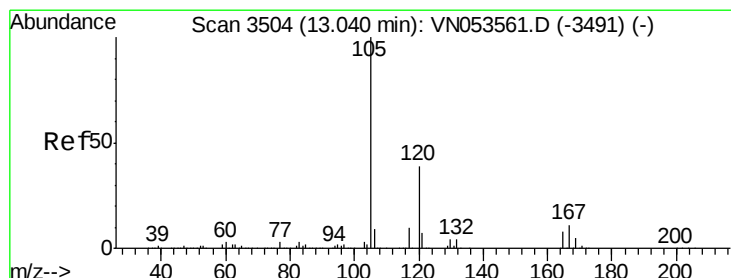
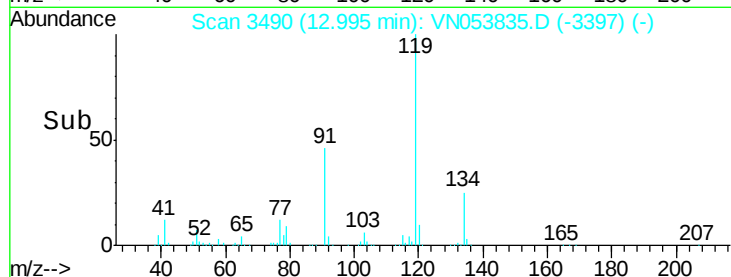
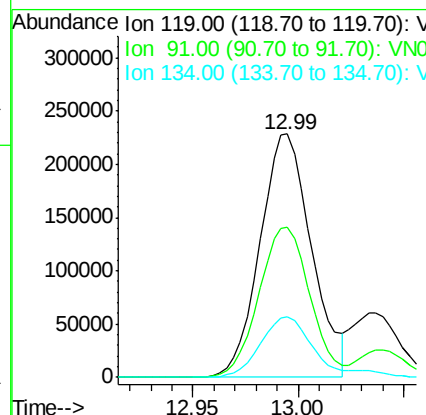
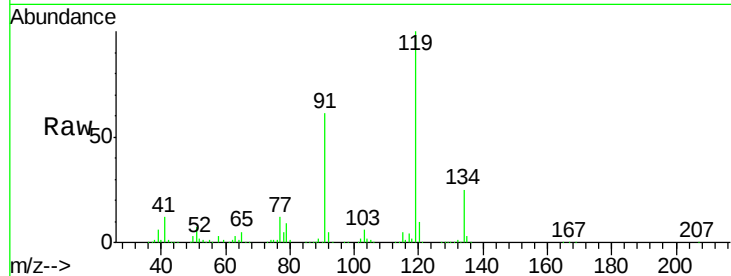
#83
tert-Butylbenzene
Concen: 20.625 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	389343		
91	60.6		31.3	93.8
134	26.4		12.9	38.7

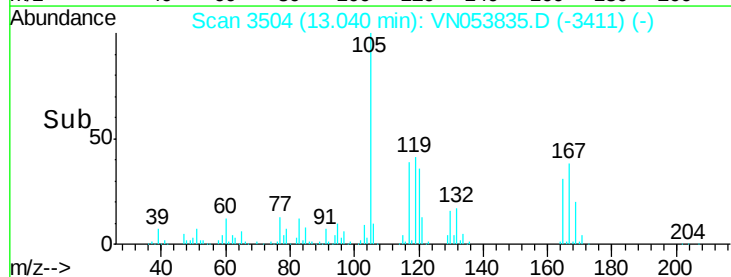
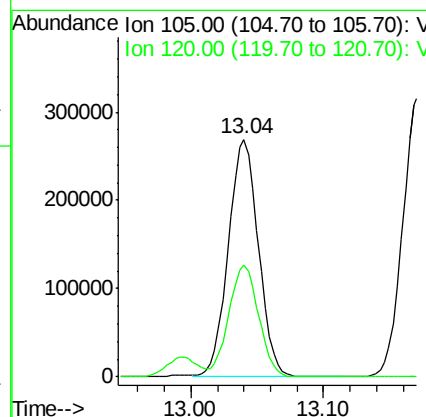
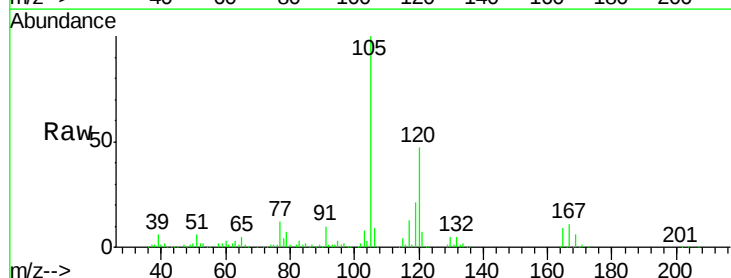
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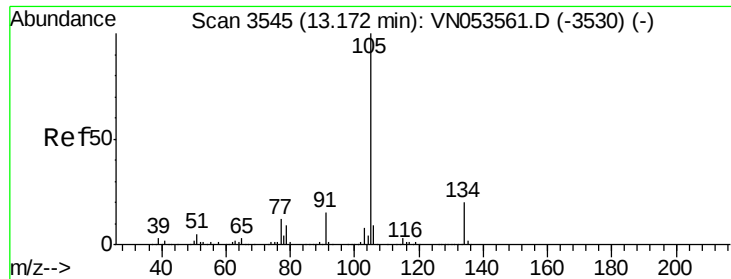
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#84
1,2,4-Trimethylbenzene
Concen: 19.511 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	424573		
120	47.0		23.0	69.0





#85

sec-Butylbenzene

Concen: 20.114 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

VN0218WBSD01

Tot Ion:105 Resp: 516711

Ion Ratio Lower Upper

105 100

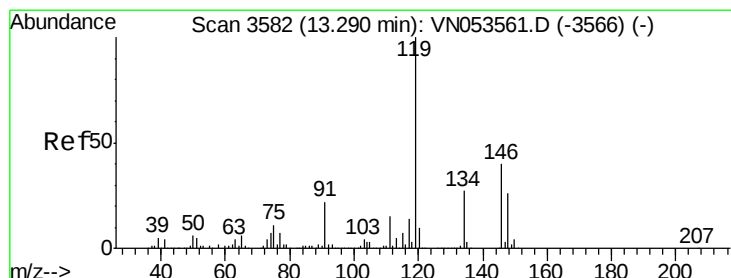
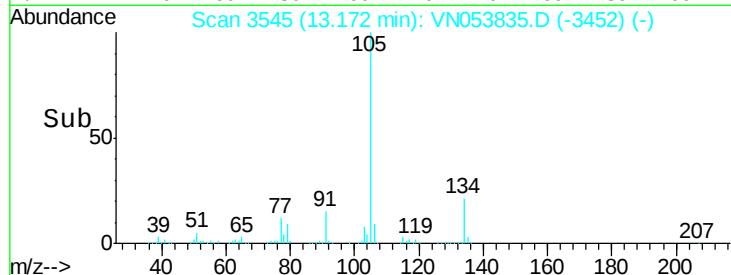
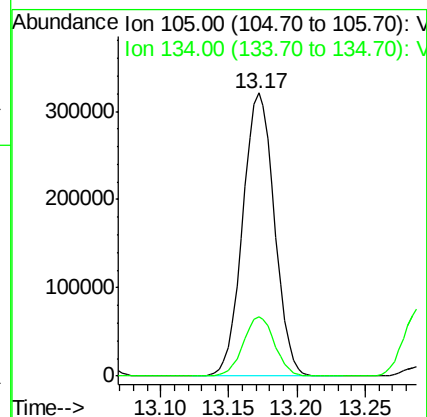
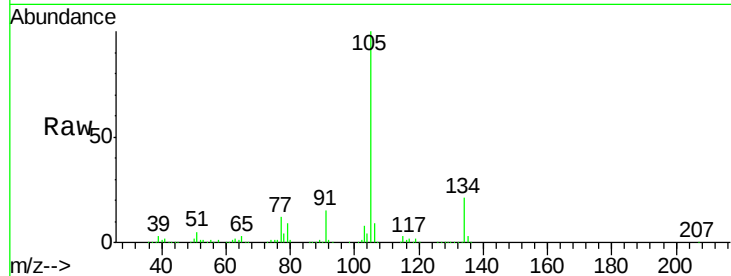
134 20.7 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 19.588 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053835.D

Acq: 18 Feb 2019 11:37

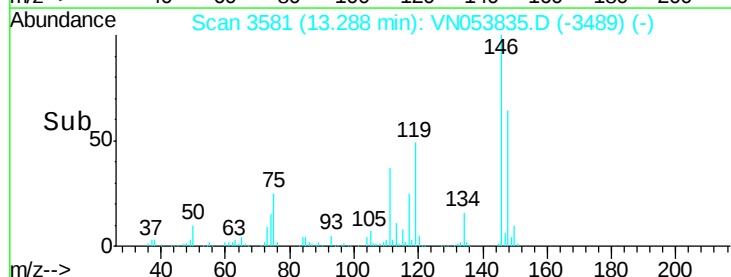
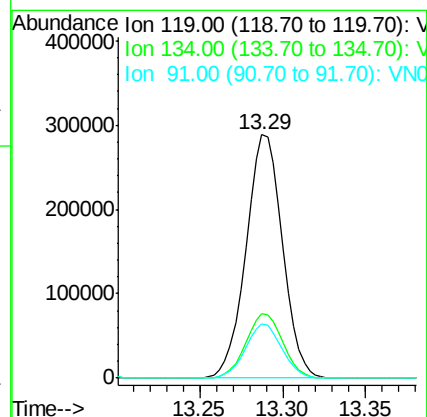
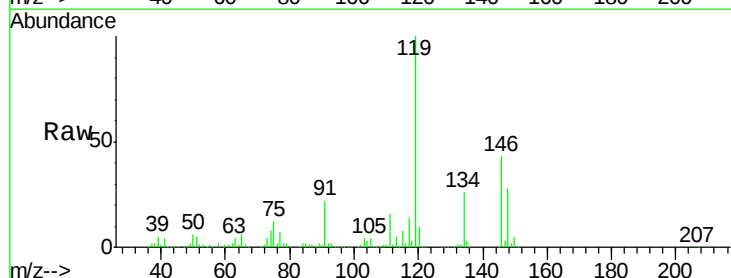
Tgt Ion:119 Resp: 440093

Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.4

91 22.3 11.0 33.0





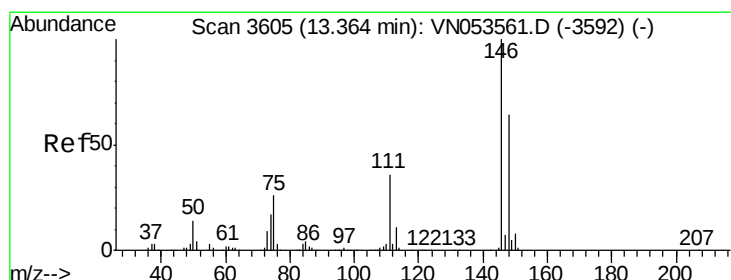
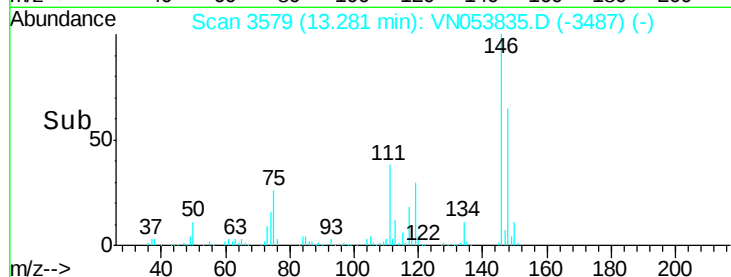
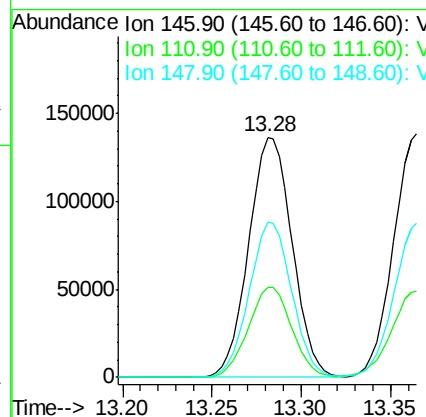
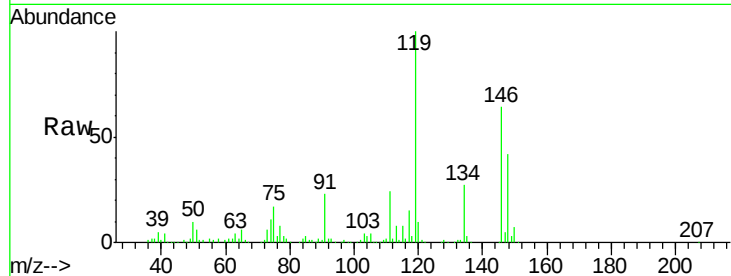
#87
 1,3-Dichlorobenzene
 Concen: 18.590 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampled :
 VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	231988		
111	37.5	18.8	56.3	
148	63.3	32.0	96.2	

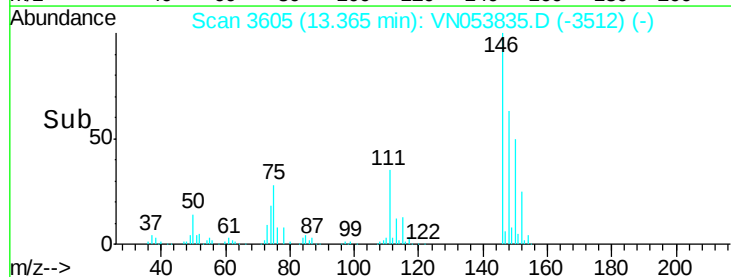
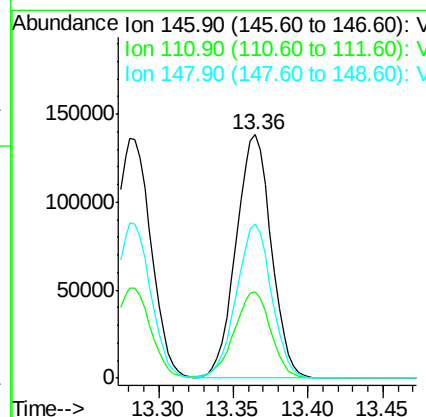
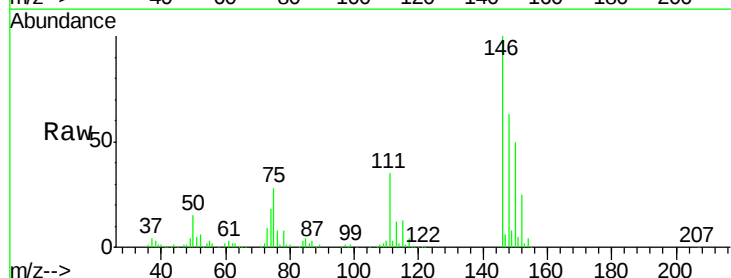
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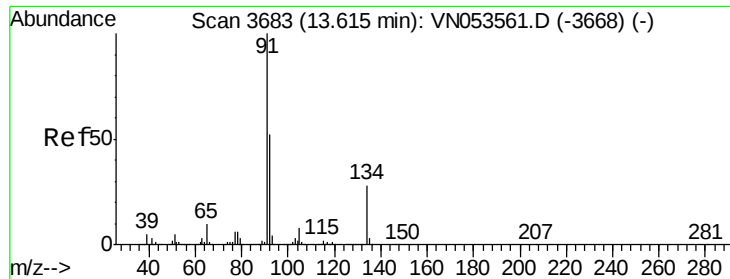
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#88
 1,4-Dichlorobenzene
 Concen: 18.377 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	226850		
111	36.9	18.6	55.8	
148	63.3	32.4	97.0	





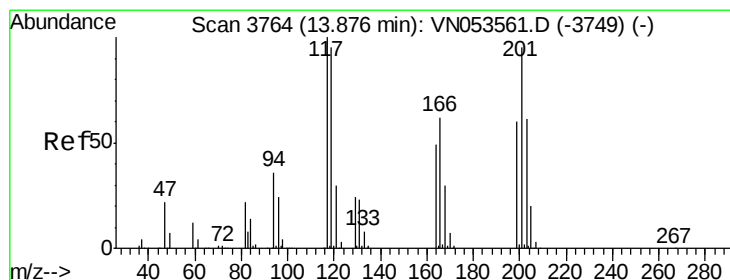
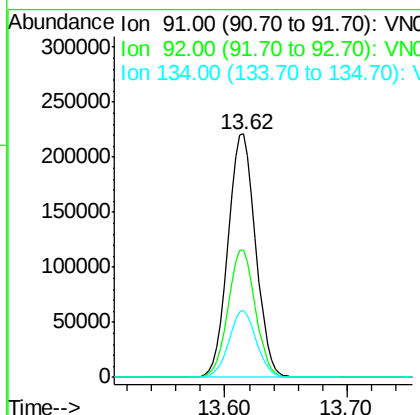
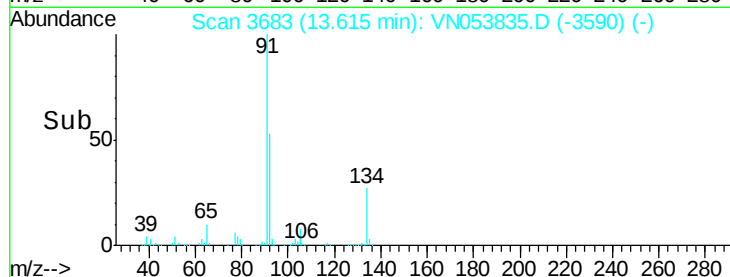
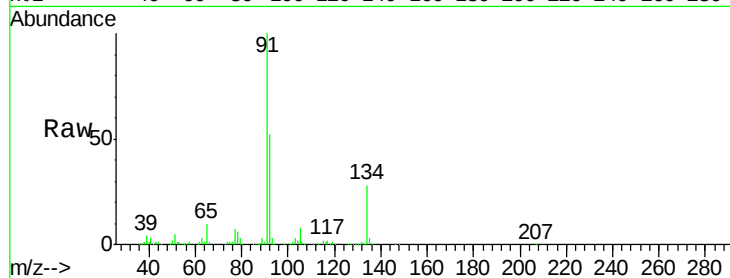
#89
n-Butylbenzene
Concen: 18.006 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.3	78.8
134	27.1	13.5	40.5

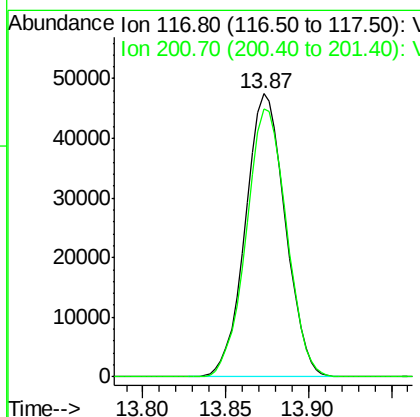
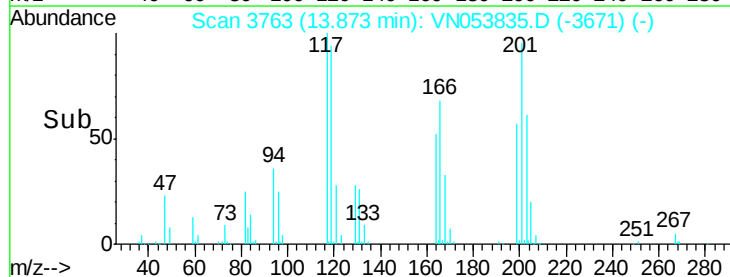
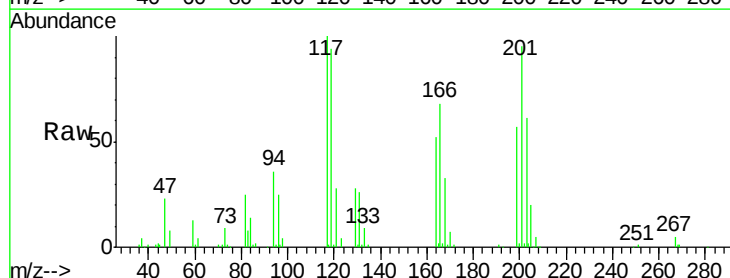
Manual Integrations
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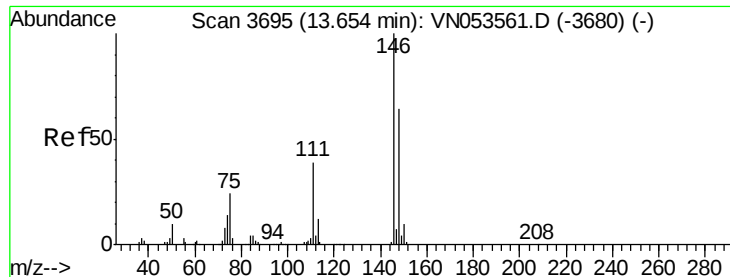
MMDadoda
2/19/2019 12:31:22 PM



#90
Hexachloroethane
Concen: 21.458 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.4	46.8	140.4





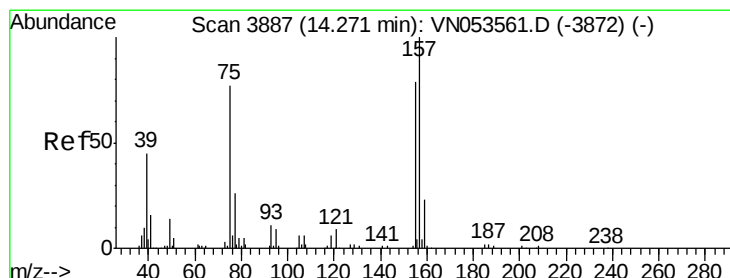
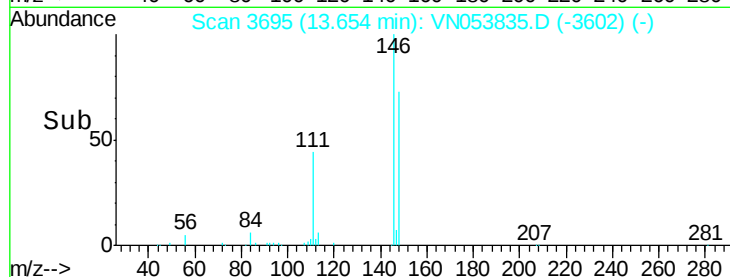
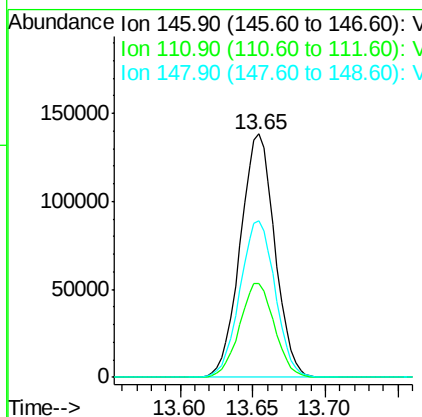
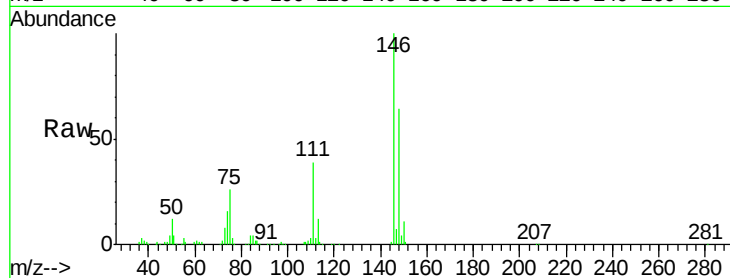
#91
 1,2-Dichlorobenzene
 Concen: 19.129 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampled :
 VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	228522		
111	39.0		19.5	58.5
148	65.6		31.9	95.9

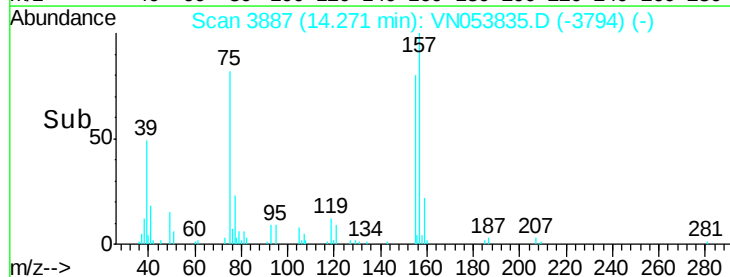
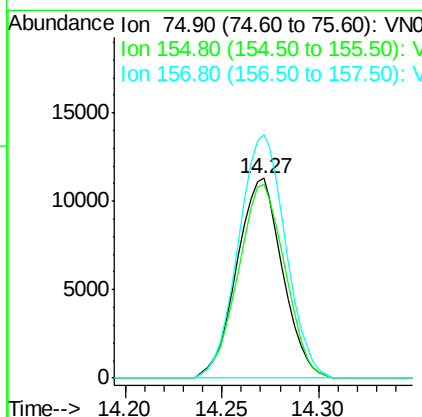
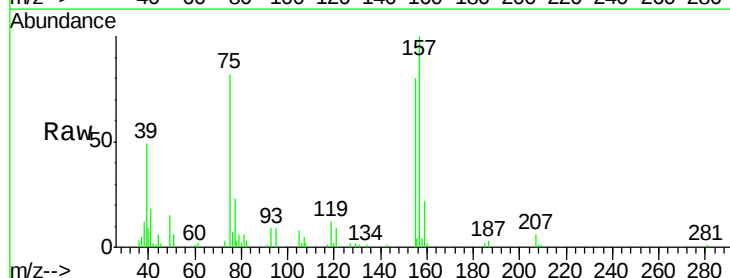
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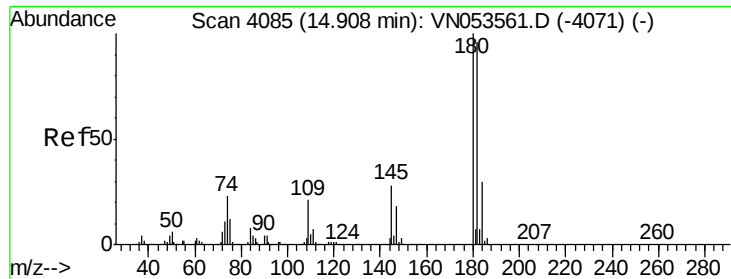
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.096 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	18533		
155	99.4		48.9	146.7
157	125.6		63.7	191.3





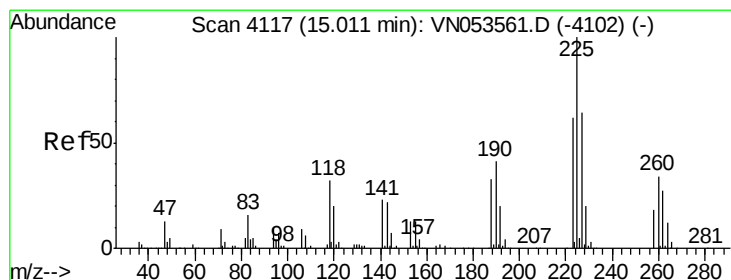
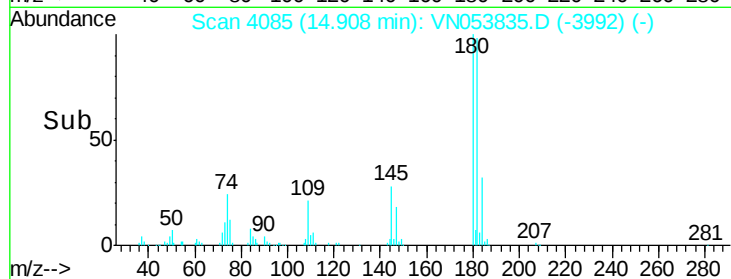
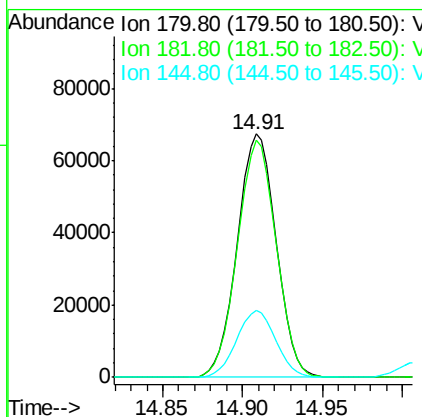
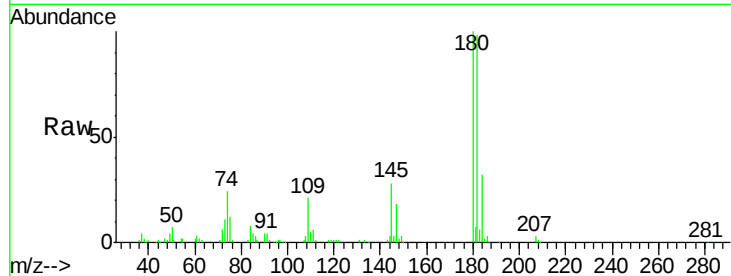
#93
 1,2,4-Trichlorobenzene
 Concen: 16.271 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.2	48.1	144.3	
145	27.6	13.9	41.6	

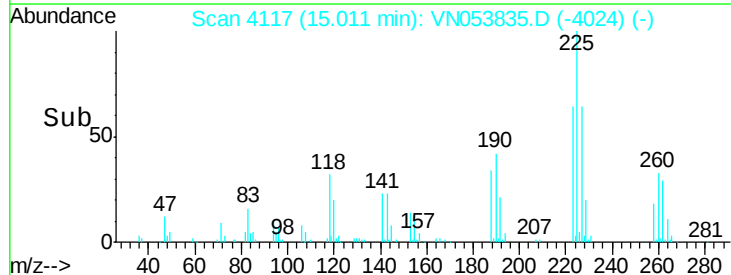
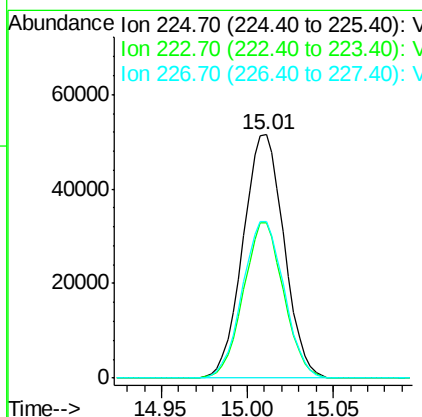
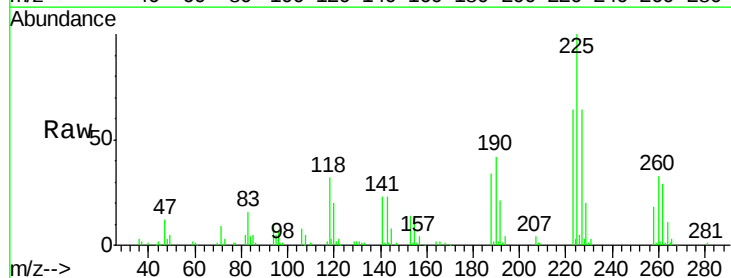
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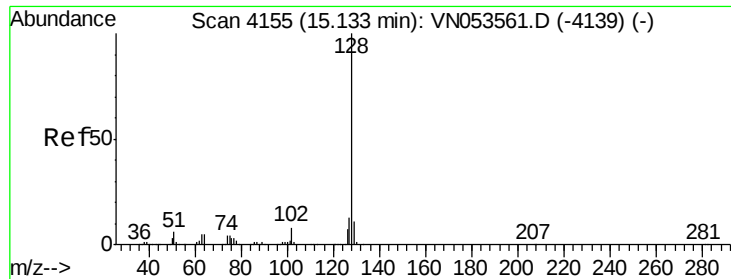
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#94
 Hexachlorobutadiene
 Concen: 19.994 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053835.D
 Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.5	31.1	93.2	
227	65.2	32.0	96.2	





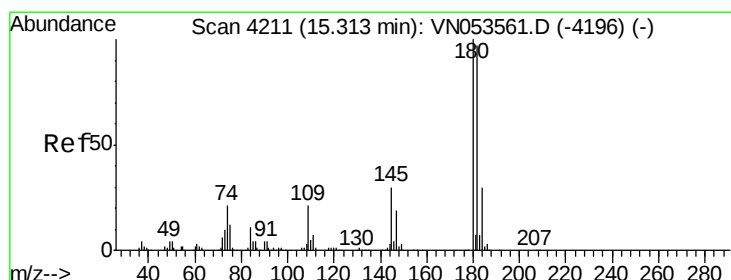
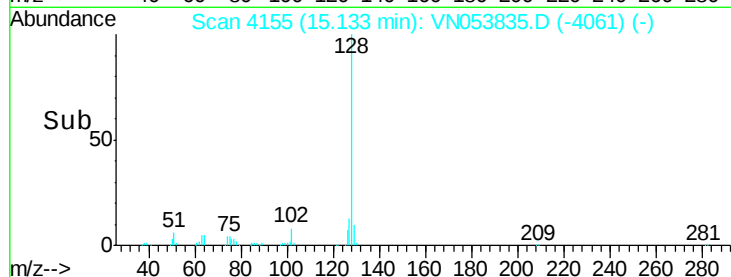
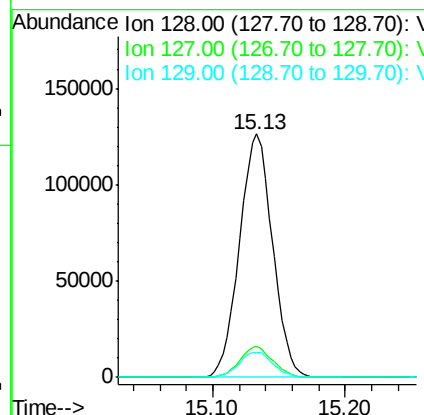
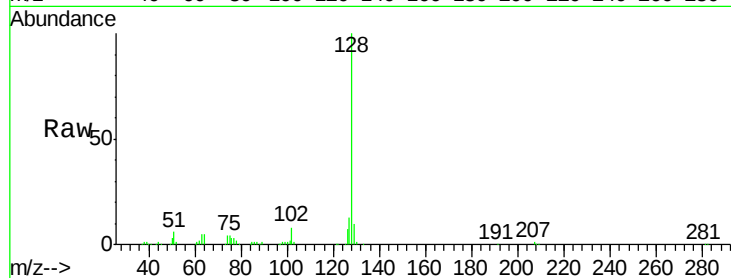
#95
Naphthalene
Concen: 14.866 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
VN0218WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	218936		
127	12.7	10.3	15.5	
129	10.6	8.6	13.0	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 17.629 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053835.D
Acq: 18 Feb 2019 11:37

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	112075		
182	96.8	47.9	143.8	
145	29.5	14.7	44.1	

