

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053818.D
 Acq On : 16 Feb 2019 00:13
 Operator : JC/SP
 Sample : VN0215WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Manual Integrations
 APPROVED

MMDadoda
 2/18/2019 9:48:35 AM

Quant Time: Feb 16 05:52:18 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	572912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	936049	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	803249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	370559	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	304116	52.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.82%	
35) Dibromofluoromethane	7.59	113	289065	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
50) Toluene-d8	10.09	98	1123395	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.40	95	346172	46.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	110871	17.388	ug/l	99
3) Chloromethane	2.06	50	132299	19.451	ug/l	98
4) Vinyl Chloride	2.19	62	142126	21.526	ug/l	99
5) Bromomethane	2.58	94	98612	22.842	ug/l	100
6) Chloroethane	2.71	64	89547	23.733	ug/l	100
7) Trichlorofluoromethane	3.02	101	193514	21.613	ug/l	99
8) Diethyl Ether	3.42	74	71381	21.830	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	115005	20.769	ug/l	97
10) Methyl Iodide	3.96	142	168620	19.401	ug/l	100
11) Tert butyl alcohol	4.78	59	36251	106.575	ug/l	99
12) 1,1-Dichloroethene	3.74	96	110889	20.901	ug/l	96
13) Acrolein	3.61	56	20662	111.569	ug/l	98
14) Allyl chloride	4.33	41	162827	19.276	ug/l	99
15) Acrylonitrile	4.99	53	202786	110.433	ug/l	100
16) Acetone	3.82	43	141001	95.644	ug/l	99
17) Carbon Disulfide	4.06	76	291580	17.651	ug/l	100
18) Methyl Acetate	4.33	43	107664	24.660	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	297792	22.142	ug/l	99
20) Methylene Chloride	4.55	84	125366	20.269	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	112844	19.715	ug/l	97
22) Diisopropyl ether	5.95	45	338621	21.634	ug/l	93
23) Vinyl Acetate	5.90	43	1092614	100.908	ug/l	99
24) 1,1-Dichloroethane	5.85	63	217201	20.805	ug/l	99
25) 2-Butanone	6.84	43	210730	100.225	ug/l	99
26) 2,2-Dichloropropane	6.82	77	134117	16.829	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	132253	20.780	ug/l	96
28) Bromochloromethane	7.19	49	94425	20.843	ug/l	93
29) Tetrahydrofuran	7.21	42	144214	106.815	ug/l	97
30) Chloroform	7.37	83	215770	20.850	ug/l	97
31) Cyclohexane	7.66	56	178773	18.285	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	181735	21.102	ug/l	99
36) 1,1-Dichloropropene	7.79	75	149618	17.732	ug/l	97
37) Ethyl Acetate	6.93	43	94822	20.121	ug/l	98
38) Carbon Tetrachloride	7.77	117	159047	18.711	ug/l	99

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Manual Integrations
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MMDadoda
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Quant Time: Feb 16 05:52:18 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)
39) Methylcyclohexane	9.08	83	167020	16.684	ug/l	96
40) Benzene	8.04	78	479568	18.431	ug/l	99
41) Methacrylonitrile	7.18	41	47533	18.047	ug/l #	82
42) 1,2-Dichloroethane	8.12	62	149246	19.317	ug/l	100
43) Isopropyl Acetate	8.17	43	171455	18.839	ug/l	99
44) Trichloroethene	8.84	130	137789	18.600	ug/l	98
45) 1,2-Dichloropropane	9.12	63	130026	19.537	ug/l	99
46) Dibromomethane	9.21	93	78888	19.663	ug/l	98
47) Bromodichloromethane	9.40	83	164761	19.752	ug/l	97
48) Methyl methacrylate	9.20	41	82421	18.972	ug/l	98
49) 1,4-Dioxane	9.20	88	23703	400.919	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	481896	107.752	ug/l	100
52) Toluene	10.16	92	314714	20.379	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	156055	18.683	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	193524	19.552	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	114082	20.501	ug/l	96
56) Ethyl methacrylate	10.43	69	132160	20.076	ug/l	98
57) 1,3-Dichloropropane	10.71	76	188627	19.834	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	295838	78.150	ug/l	99
59) 2-Hexanone	10.75	43	275707	90.810	ug/l	100
60) Dibromochloromethane	10.90	129	125292	19.966	ug/l	99
61) 1,2-Dibromoethane	11.01	107	106991	19.425	ug/l	98
64) Tetrachloroethene	10.63	164	135744	19.714	ug/l	99
65) Chlorobenzene	11.44	112	326574	19.141	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	122751	20.600	ug/l	99
67) Ethyl Benzene	11.51	91	531789	18.974	ug/l	100
68) m/p-Xylenes	11.62	106	414501	38.749	ug/l	100
69) o-Xylene	11.95	106	206057	19.939	ug/l	98
70) Styrene	11.96	104	324457	19.370	ug/l	100
71) Bromoform	12.13	173	86379	21.145	ug/l #	100
73) Isopropylbenzene	12.25	105	542749	20.835	ug/l	100
74) N-amyl acetate	12.07	43	124692	19.906	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	132880	21.314	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	115306m	24.226	ug/l	
77) Bromobenzene	12.53	156	143240	20.403	ug/l	97
78) n-propylbenzene	12.59	91	605363	20.102	ug/l	100
79) 2-Chlorotoluene	12.67	91	366771	20.529	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	450439	20.852	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	29381	17.358	ug/l	95
82) 4-Chlorotoluene	12.77	91	360518	19.665	ug/l	99
83) tert-Butylbenzene	12.99	119	412022	21.581	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	456862	20.759	ug/l	100
85) sec-Butylbenzene	13.17	105	544194	20.946	ug/l	99
86) p-Isopropyltoluene	13.29	119	467730	20.585	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	246272	19.513	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	237686	19.039	ug/l	100
89) n-Butylbenzene	13.62	91	372555	18.943	ug/l	98
90) Hexachloroethane	13.88	117	83923	22.392	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	245321	20.304	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18805	21.165	ug/l	99

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ALS Vial : 32 Sample Multiplier: 1

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ClientSampleId :
VN0215WBSD02

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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)
93) 1,2,4-Trichlorobenzene	14.91	180	121908	17.592	ug/l	99
94) Hexachlorobutadiene	15.01	225	91602	21.226	ug/l	99
95) Naphthalene	15.13	128	237497	15.820	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	122939	19.120	ug/l	99

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

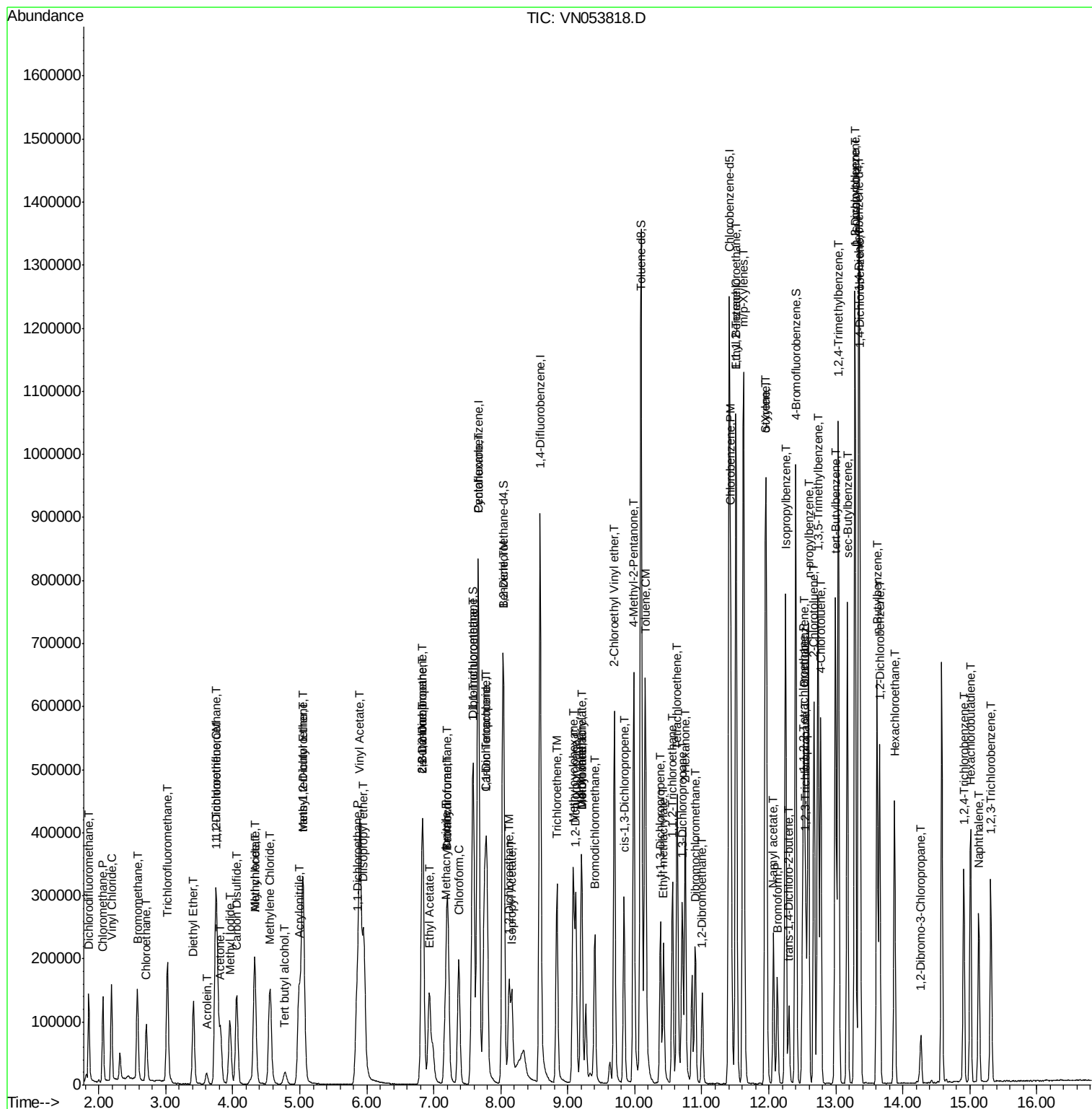
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 Data File : VN053818.D
 Acq On : 16 Feb 2019 00:13
 Operator : JC/SP
 Sample : VN0215WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

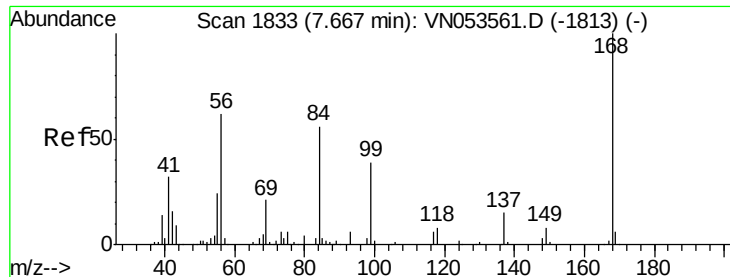
Instrument :
 MSVOA_N
 Client Sample Id :
 VN0215WBSD02

Manual Integrations
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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion:168 Resp: 572912

Ion Ratio Lower Upper

168 100

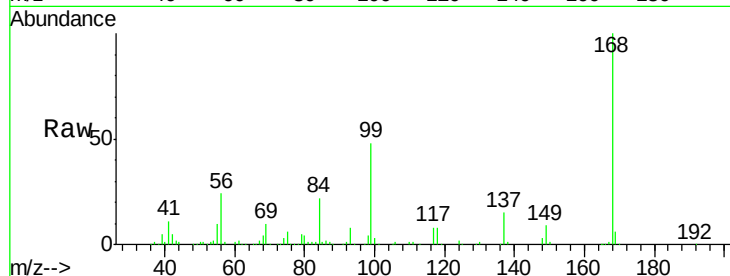
99 46.7 39.1 58.7

Manual Integrations

APPROVED

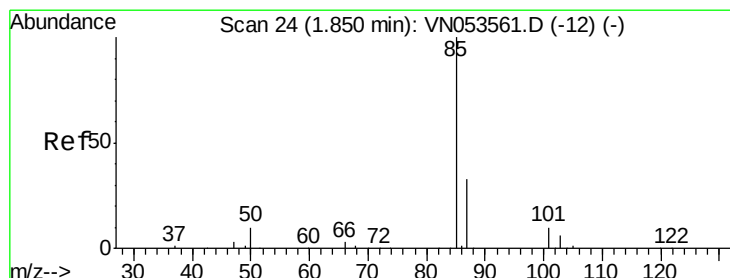
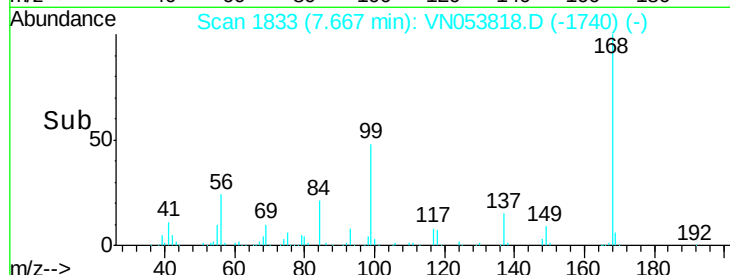
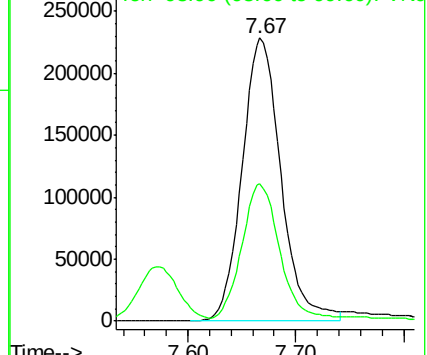
MMDadoda

2/18/2019 9:48:35 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 17.388 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053818.D

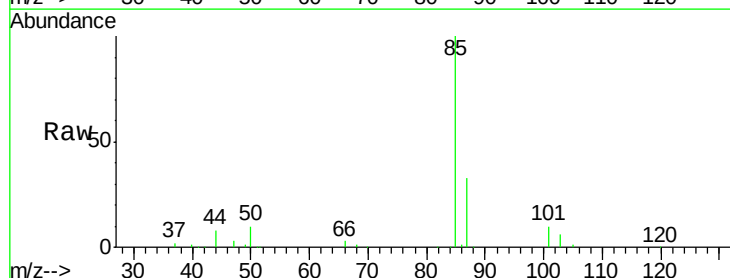
Acq: 16 Feb 2019 00:13

Tgt Ion: 85 Resp: 110871

Ion Ratio Lower Upper

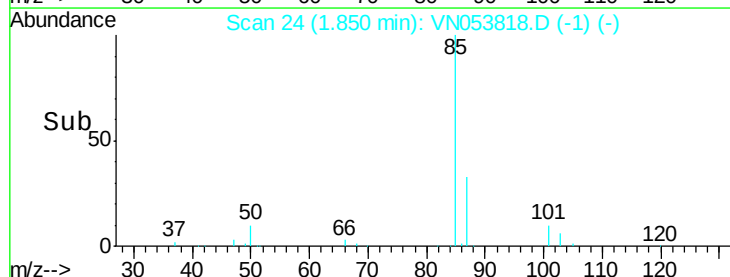
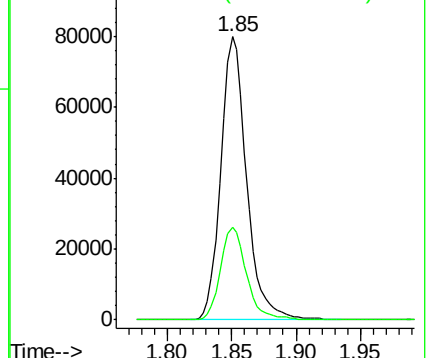
85 100

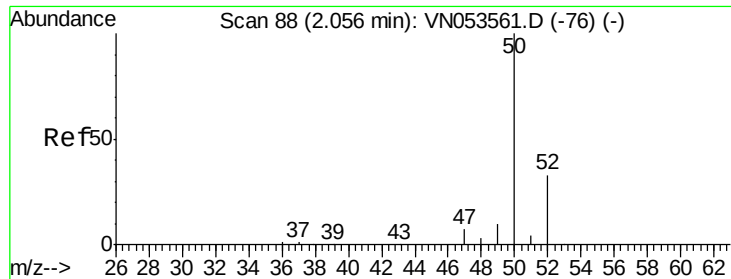
87 32.7 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 19.451 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.01 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 50 Resp: 132299

Ion Ratio Lower Upper

50 100

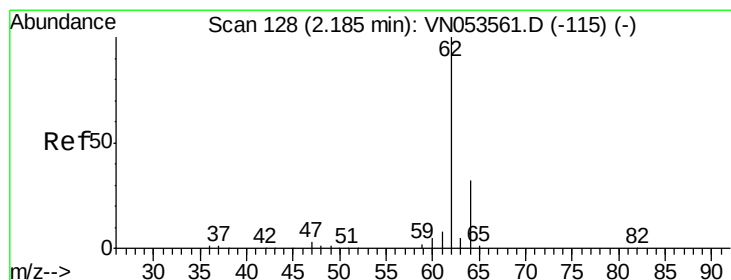
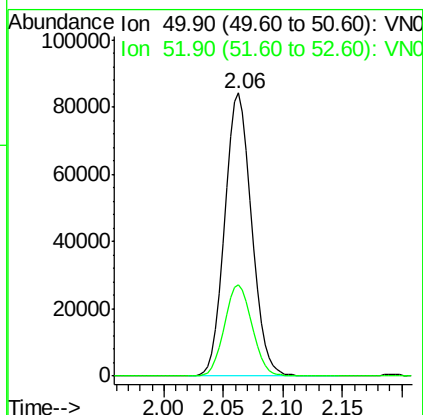
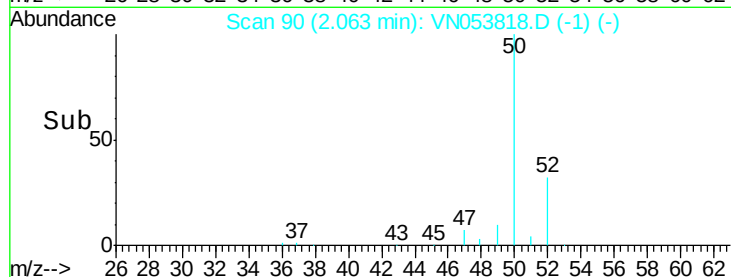
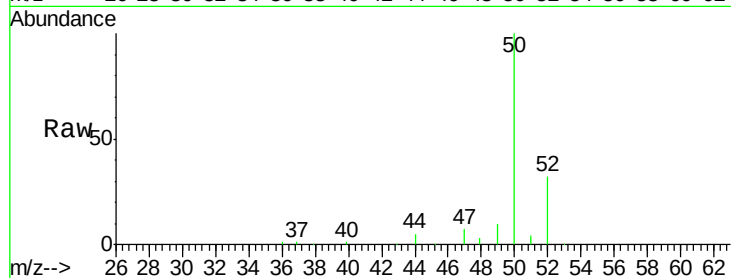
52 32.3 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.526 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.01 min

Lab File: VN053818.D

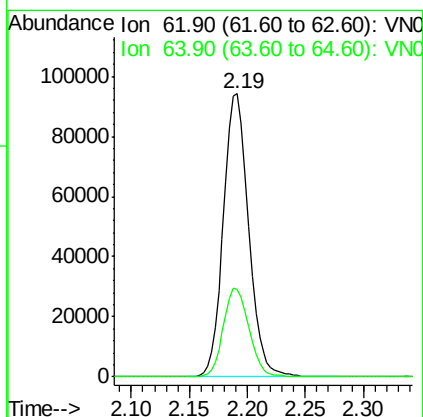
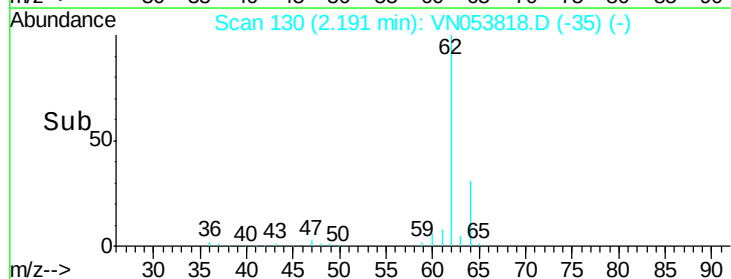
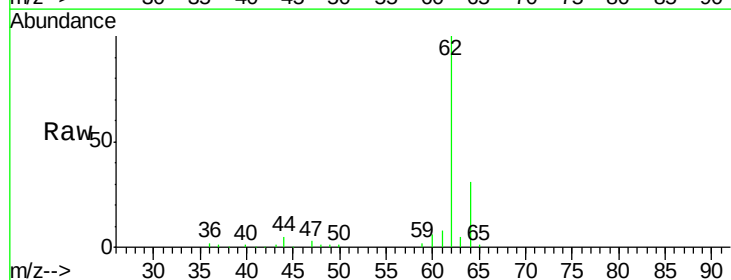
Acq: 16 Feb 2019 00:13

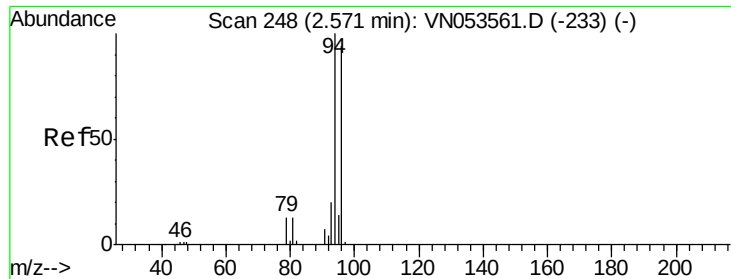
Tgt Ion: 62 Resp: 142126

Ion Ratio Lower Upper

62 100

64 31.0 25.4 38.2





#5

Bromomethane

Concen: 22.842 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 94 Resp: 98612

Ion Ratio Lower Upper

94 100

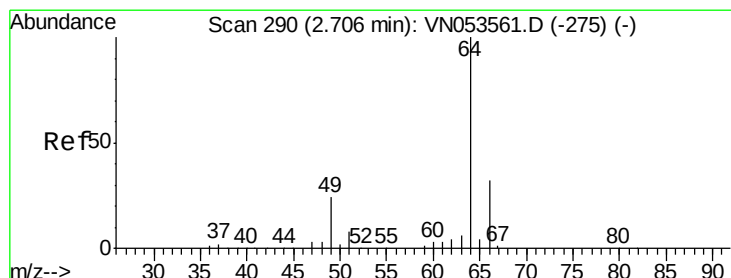
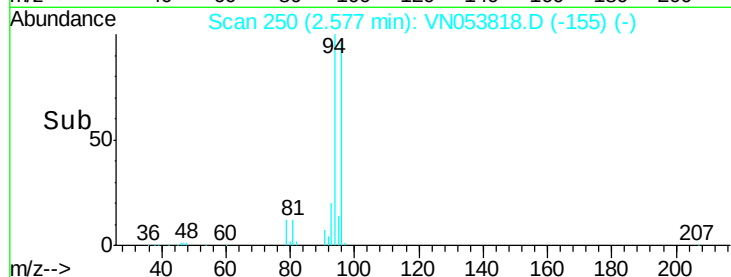
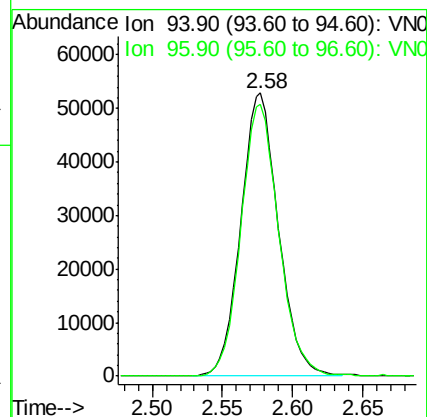
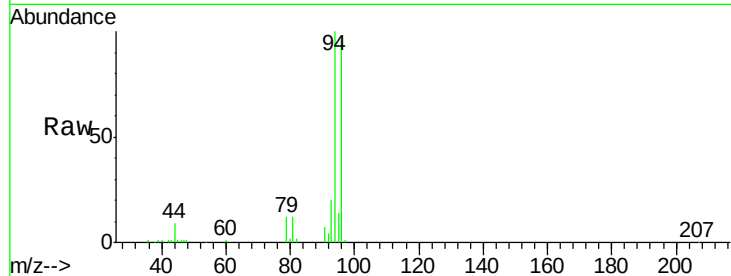
96 96.0 76.8 115.2

Manual Integrations

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#6

Chloroethane

Concen: 23.733 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN053818.D

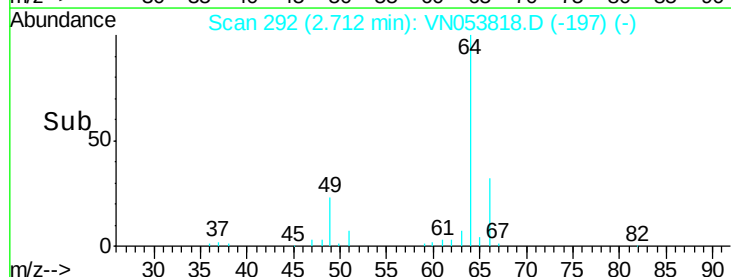
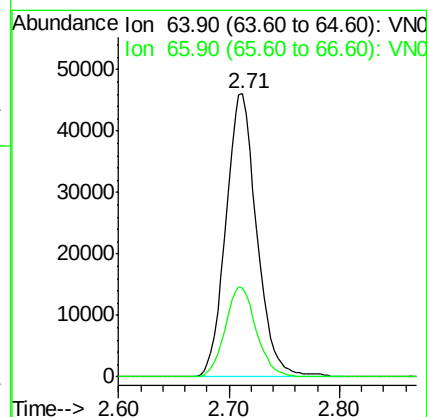
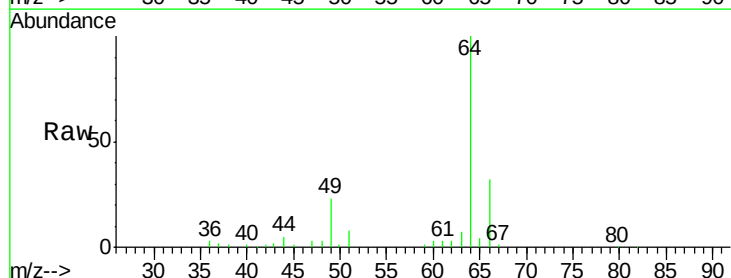
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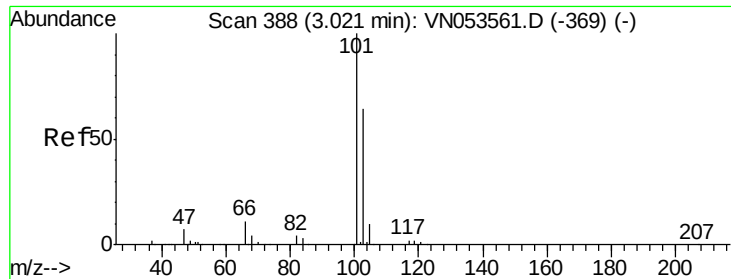
Tgt Ion: 64 Resp: 89547

Ion Ratio Lower Upper

64 100

66 31.6 25.1 37.7





#7

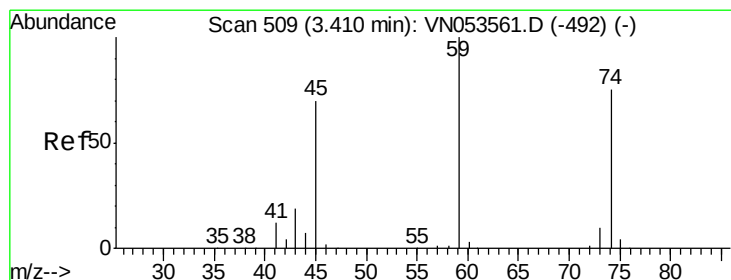
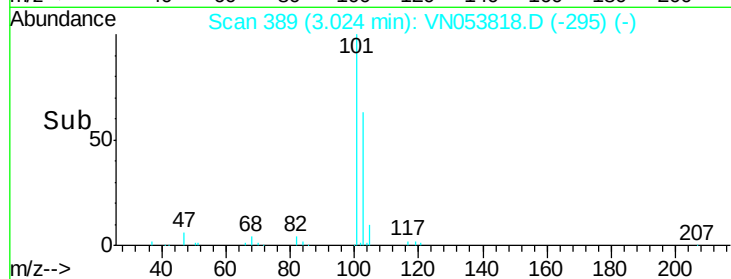
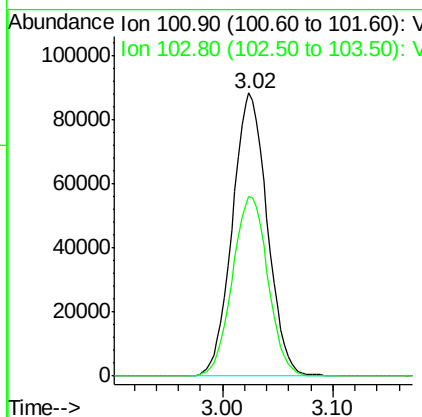
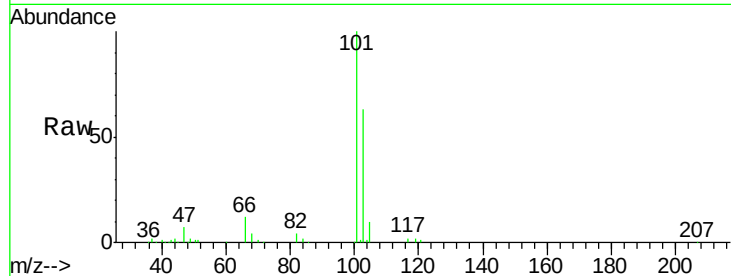
Trichlorofluoromethane
 Concen: 21.613 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.6	77.4

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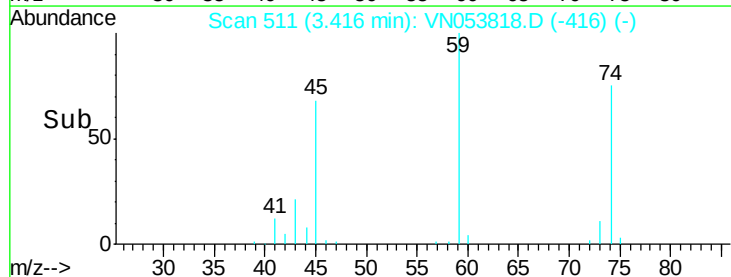
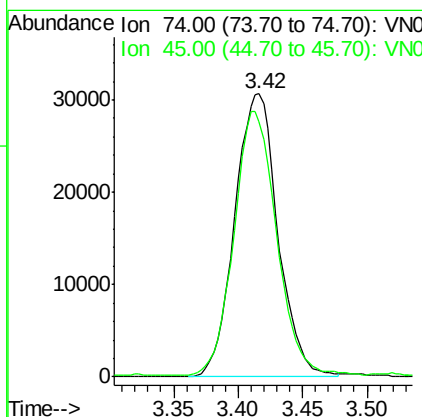
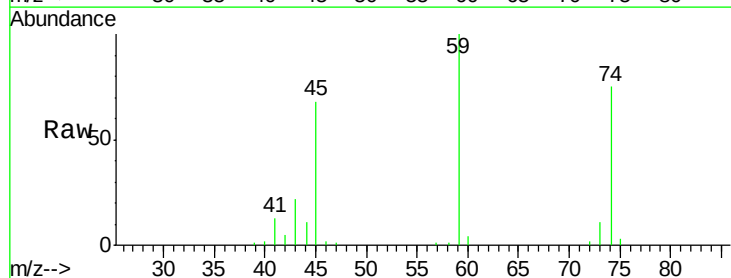
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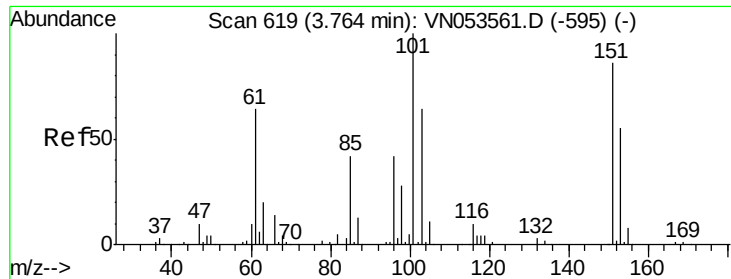


#8

Diethyl Ether
 Concen: 21.830 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	91.7	47.9	143.7





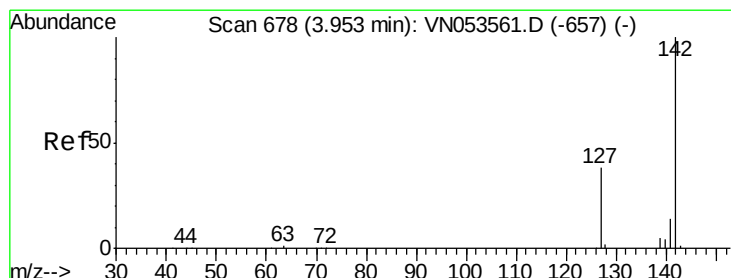
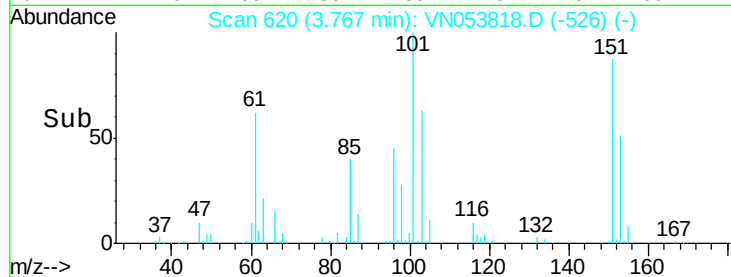
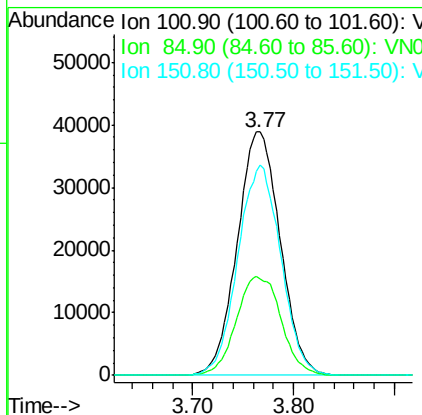
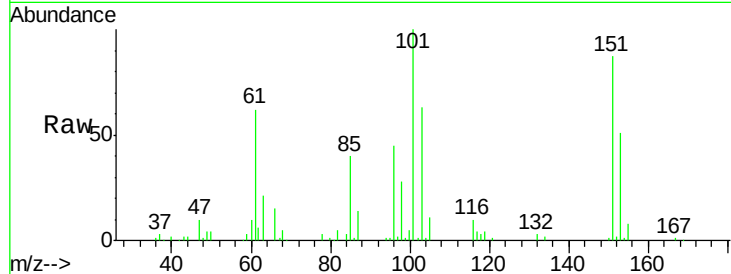
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.769 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampled :
 VN0215WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	115005		
85	42.4	32.8	49.2	
151	86.3	66.9	100.3	

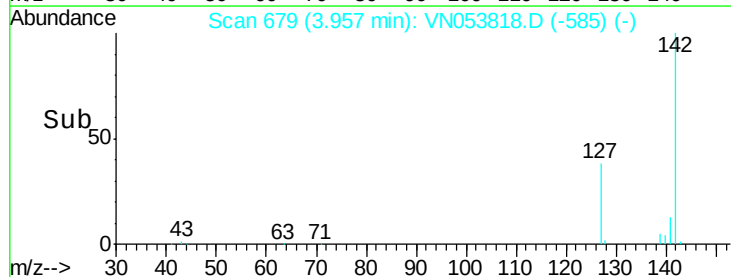
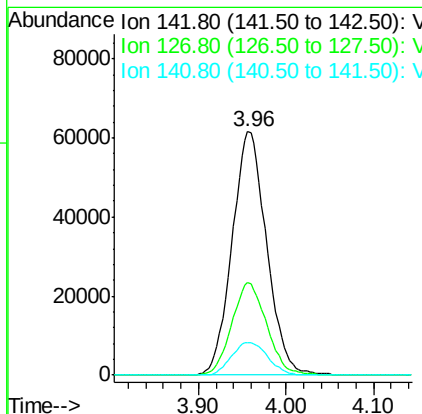
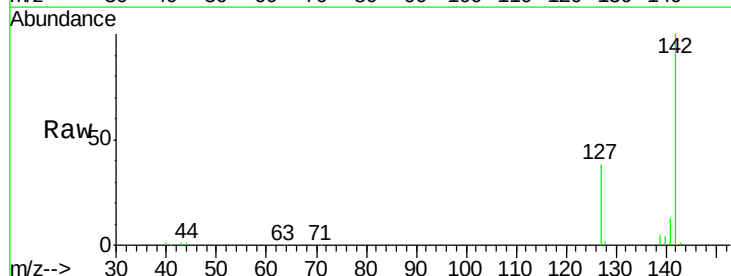
Manual Integrations
 APPROVED

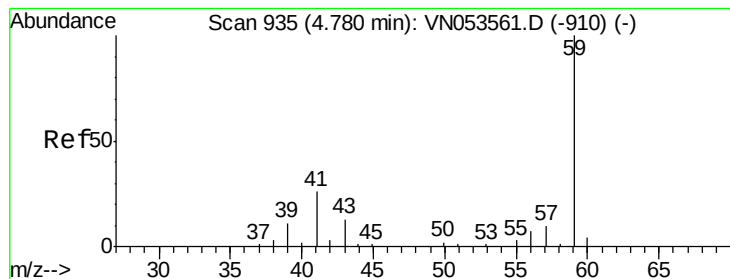
MMDadoda
 2/18/2019 9:48:35 AM



#10
 Methyl Iodide
 Concen: 19.401 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	168620		
127	38.6	31.0	46.4	
141	14.0	11.1	16.7	





#11

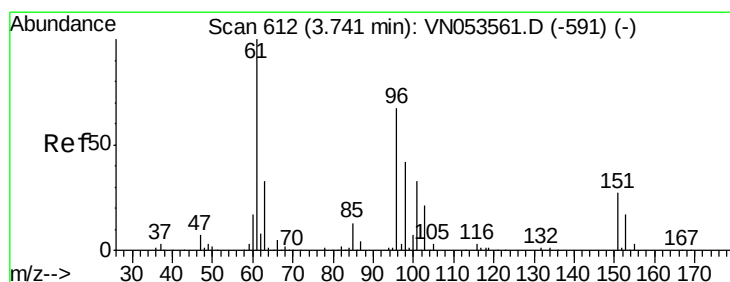
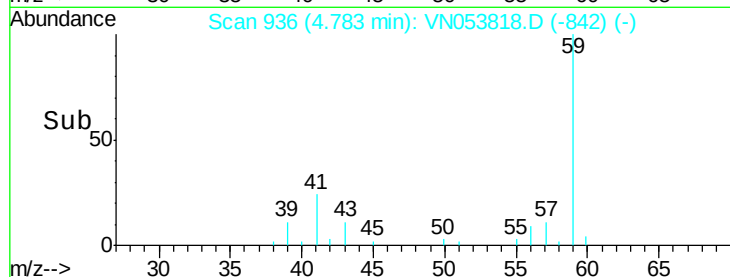
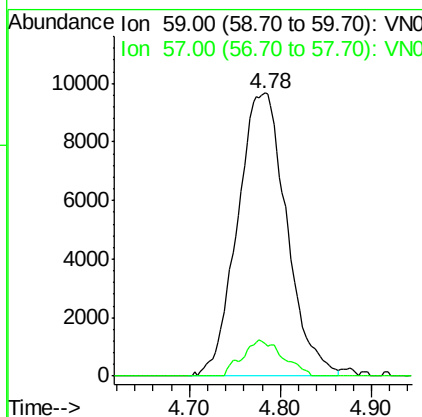
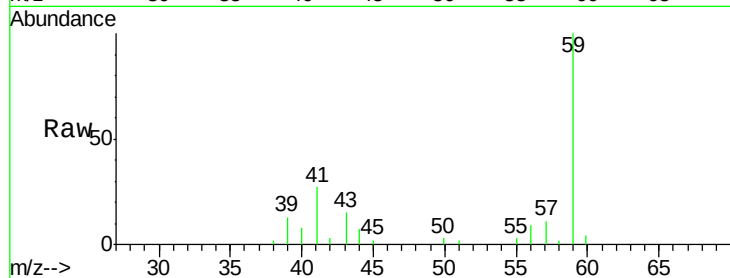
Tert butyl alcohol
 Concen: 106.575 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4

Manual Integrations
 APPROVED

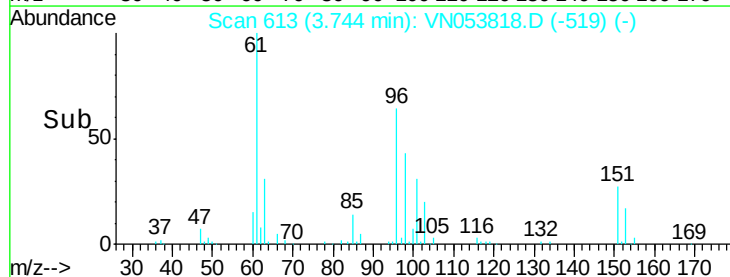
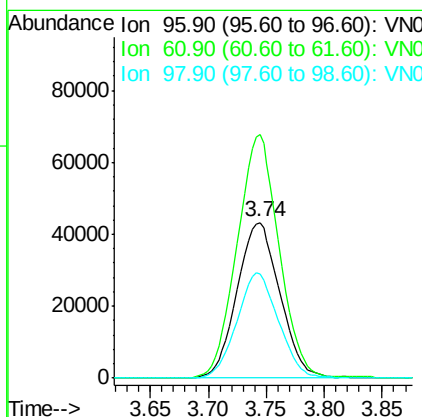
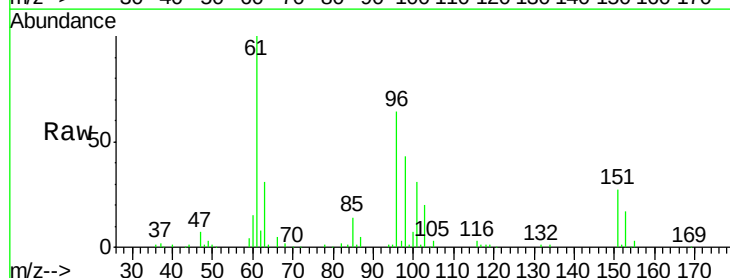
MMDadoda
 2/18/2019 9:48:35 AM

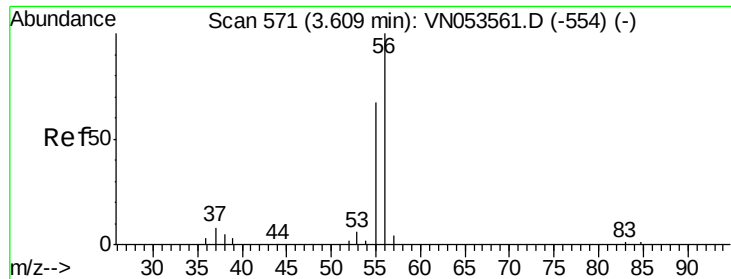


#12

1,1-Dichloroethene
 Concen: 20.901 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.7	122.9	184.3
98	66.7	49.4	74.0





#13

Acrolein

Concen: 111.569 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 56 Resp: 20662

Ion Ratio Lower Upper

56 100

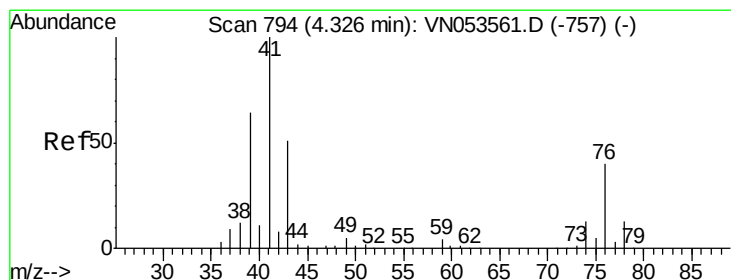
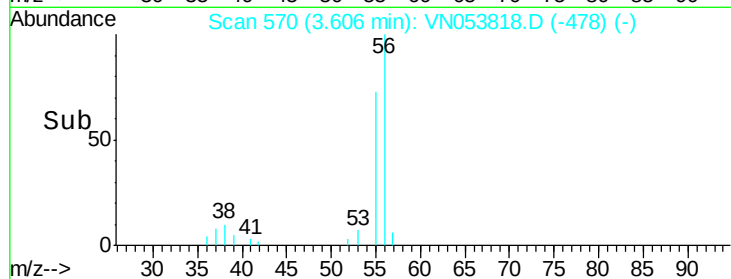
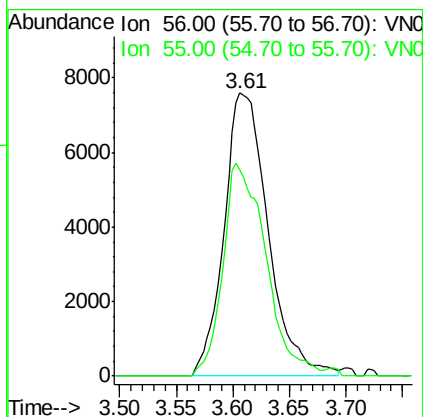
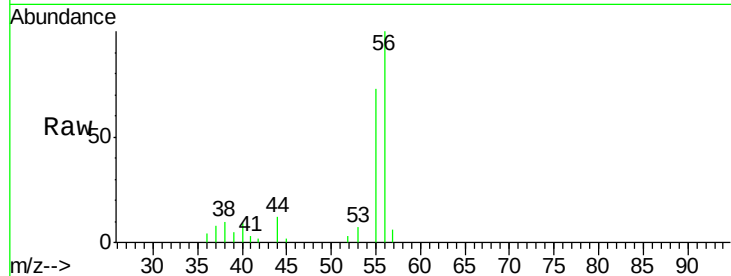
55 73.1 57.4 86.0

Manual Integrations

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2/18/2019 9:48:35 AM



#14

Allyl chloride

Concen: 19.276 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

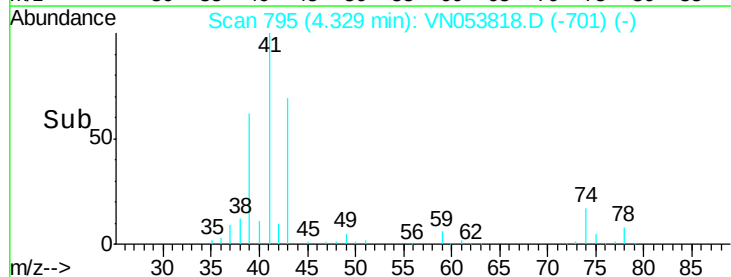
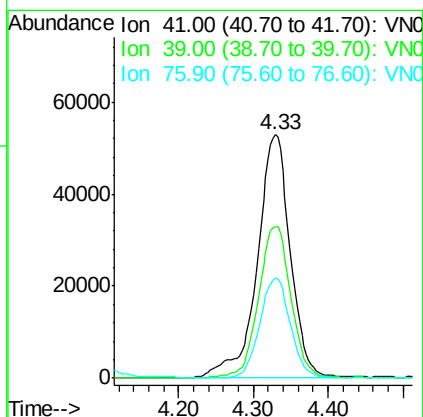
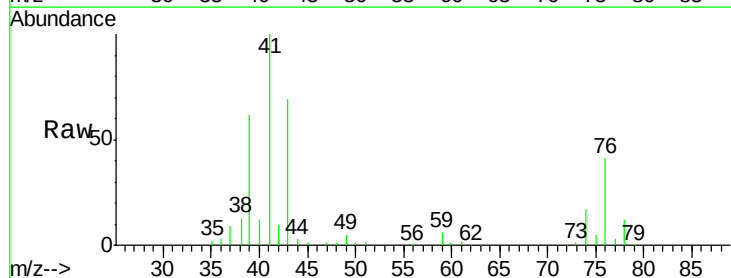
Tgt Ion: 41 Resp: 162827

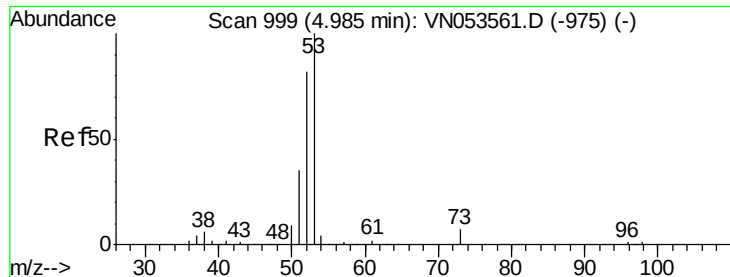
Ion Ratio Lower Upper

41 100

39 60.9 48.9 73.3

76 38.2 29.4 44.2





#15

Acrylonitrile

Concen: 110.433 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

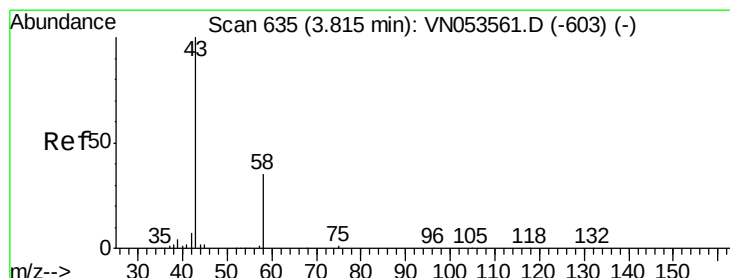
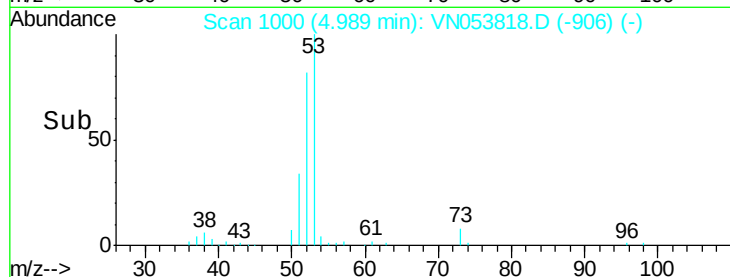
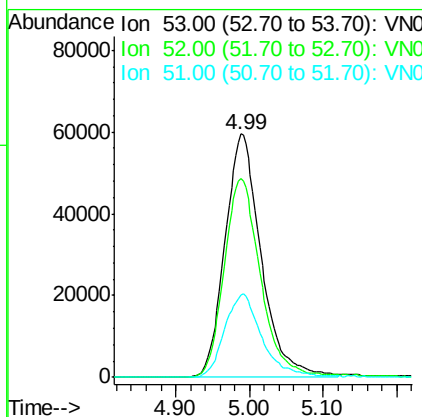
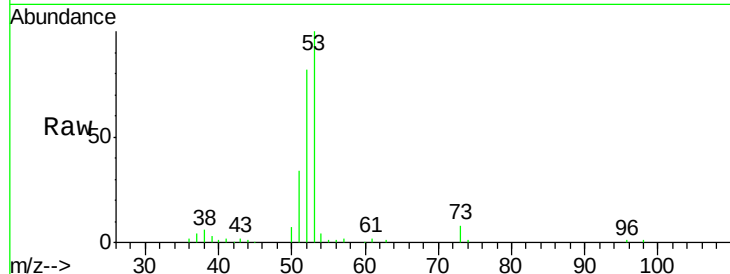
ClientSampleId :

VN0215WBSD02

Tot Ion:	53	Resp:	202786
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.0	99.0
51	35.3	28.3	42.5

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 95.644 ug/l

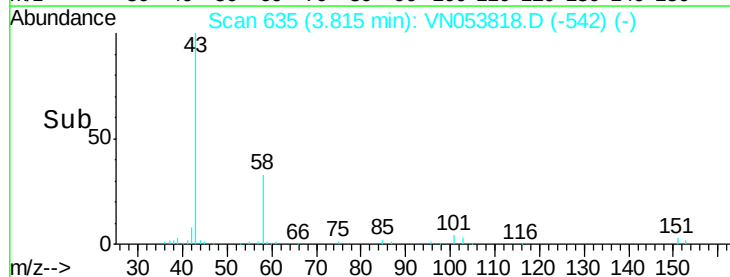
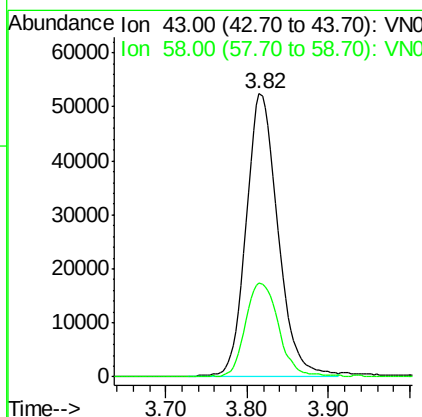
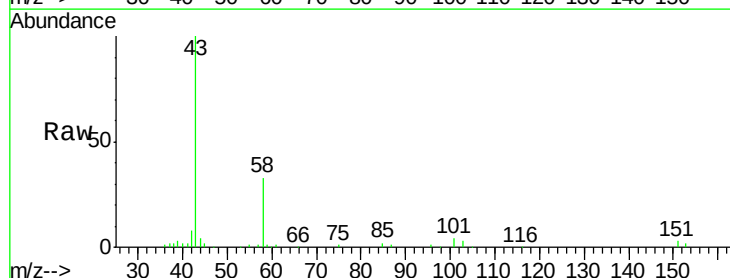
RT: 3.82 min Scan# 635

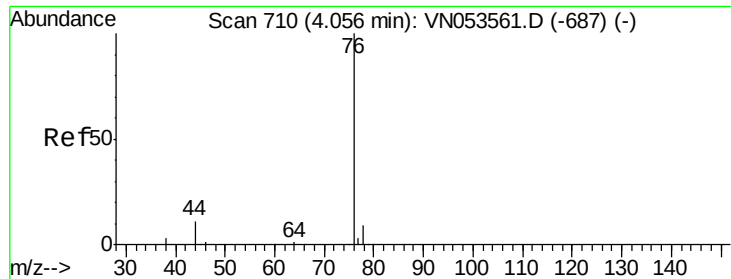
Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion:	43	Resp:	141001
Ion	Ratio	Lower	Upper
43	100		
58	33.1	27.1	40.7





#17

Carbon Disulfide

Concen: 17.651 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 76 Resp: 291580

Ion Ratio Lower Upper

76 100

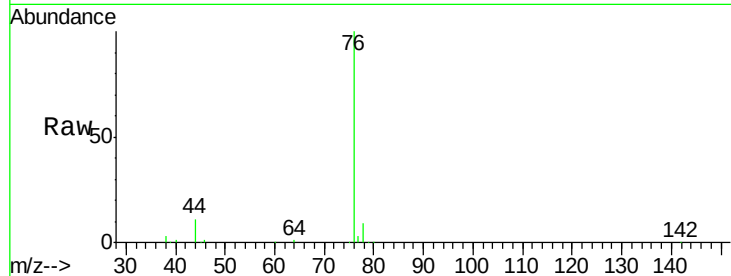
78 9.2 7.3 10.9

Manual Integrations

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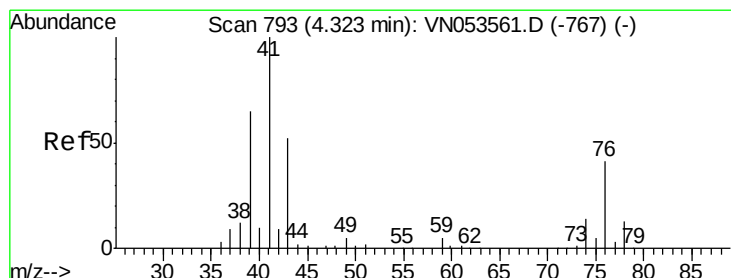
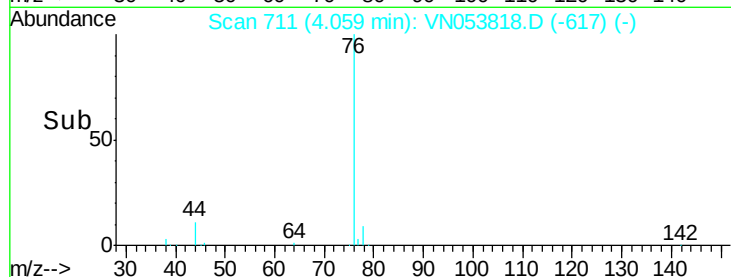
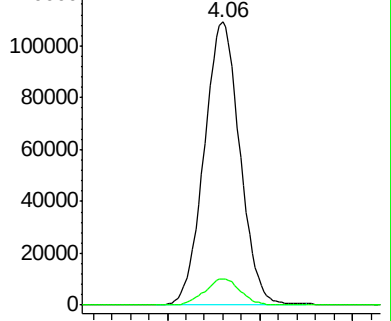
MMDadoda

2/18/2019 9:48:35 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 24.660 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053818.D

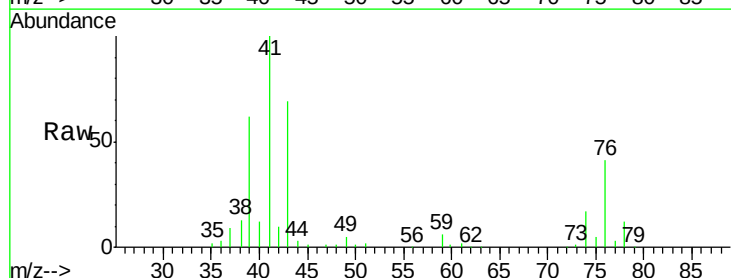
Acq: 16 Feb 2019 00:13

Tgt Ion: 43 Resp: 107664

Ion Ratio Lower Upper

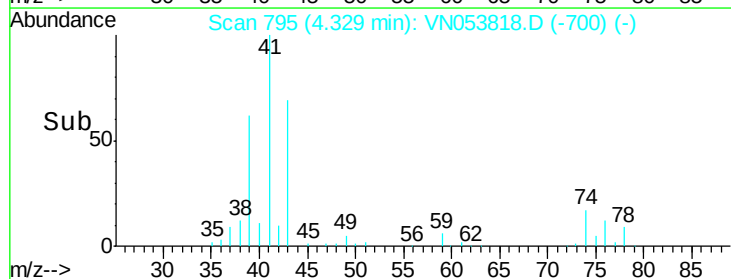
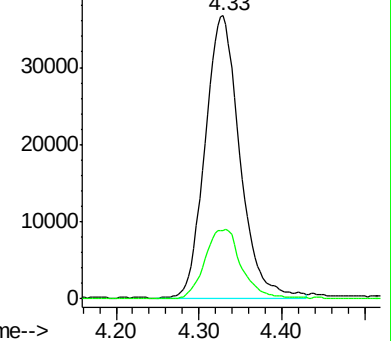
43 100

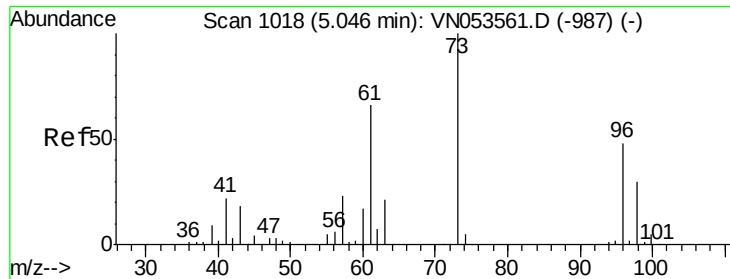
74 25.6 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





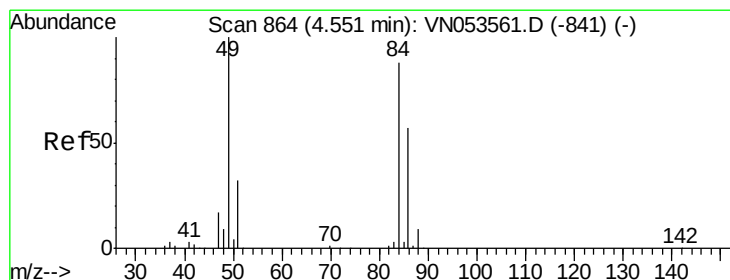
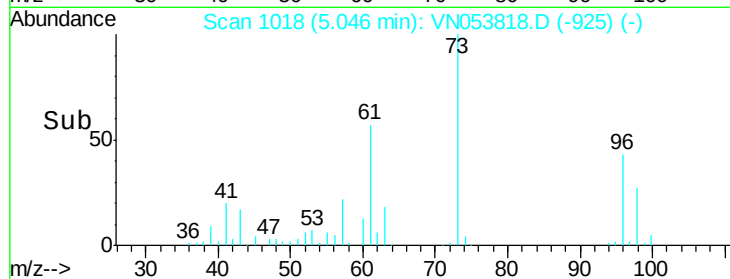
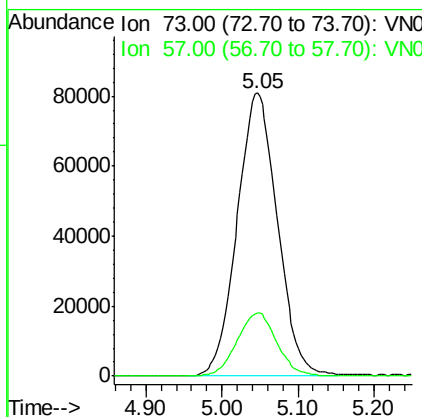
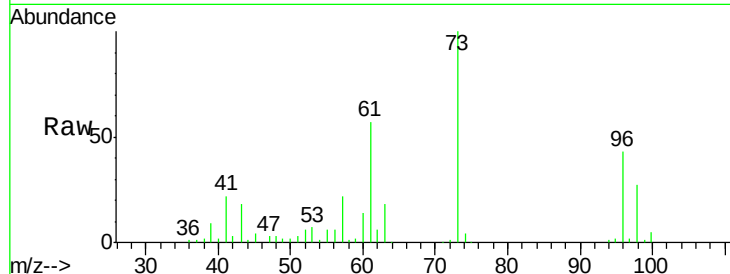
#19
Methvl tert-butyl Ether
Concen: 22.142 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.2	18.3	27.5

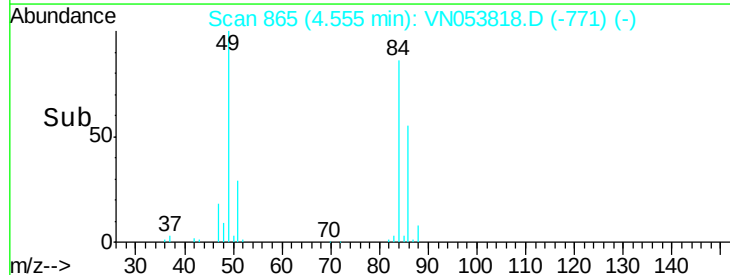
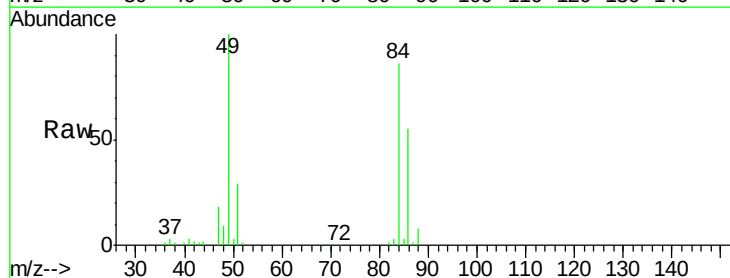
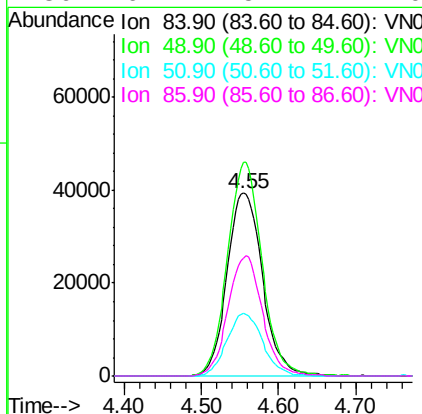
Manual Integrations
APPROVED

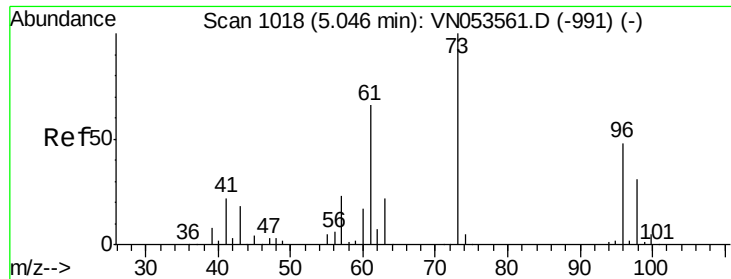
MMDadoda
2/18/2019 9:48:35 AM



#20
Methylene Chloride
Concen: 20.269 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.8	94.3	141.5
51	34.4	29.4	44.2
86	64.7	51.4	77.0





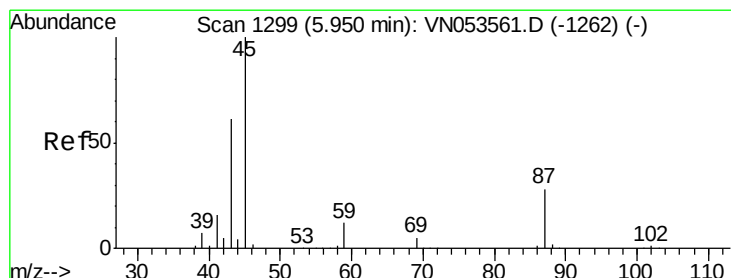
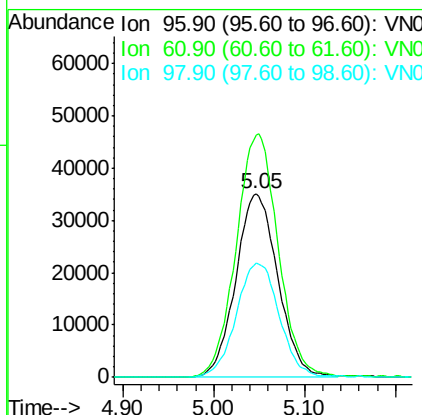
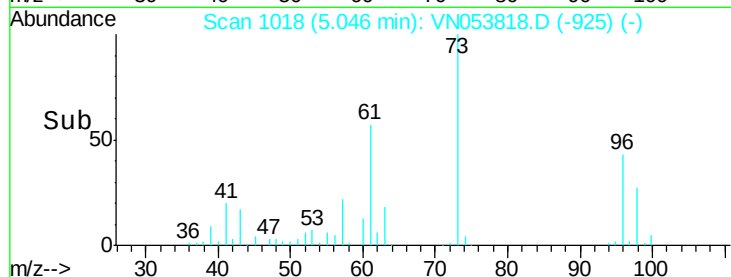
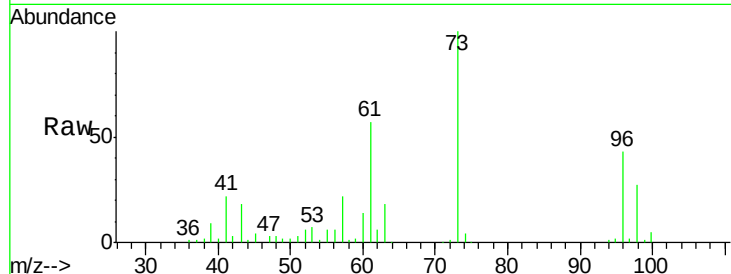
#21
trans-1,2-Dichloroethene
Concen: 19.715 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.7	110.1	165.1
98	62.3	50.0	75.0

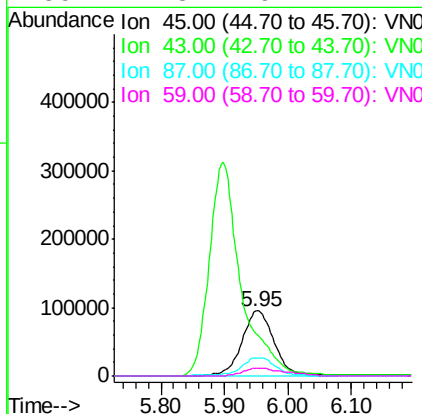
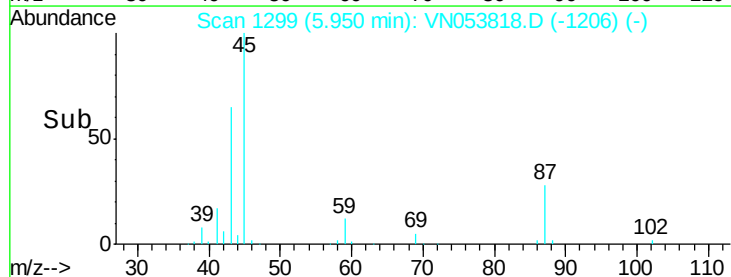
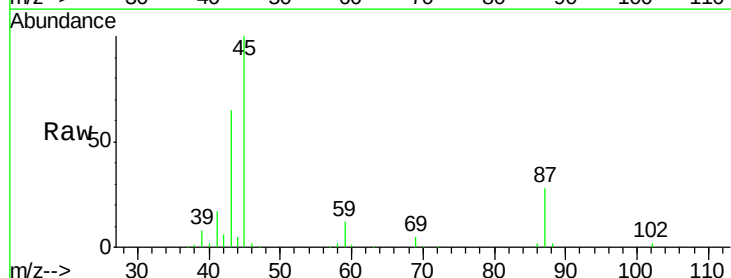
Manual Integrations
APPROVED

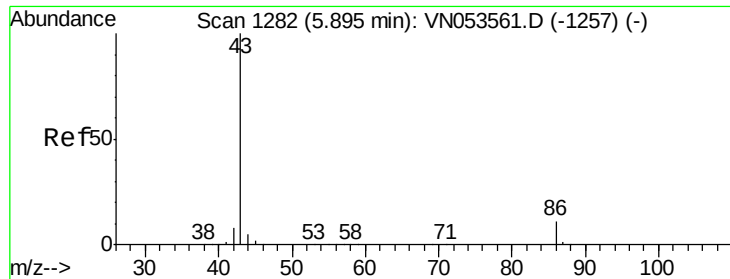
MMDadoda
2/18/2019 9:48:35 AM



#22
Diisopropyl ether
Concen: 21.634 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.8	44.2	66.4
87	27.2	22.7	34.1
59	11.8	9.4	14.2





#23

Vinyl Acetate

Concen: 100.908 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 43 Resp: 1092614

Ion Ratio Lower Upper

43 100

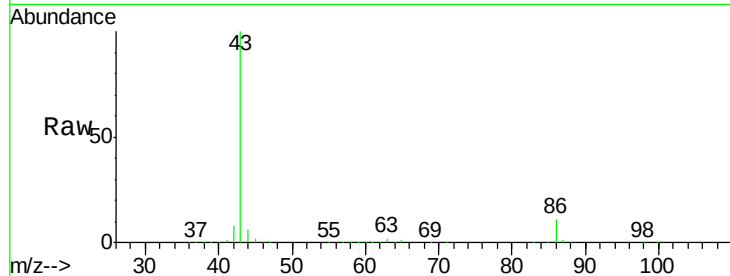
86 10.7 8.4 12.6

Manual Integrations

APPROVED

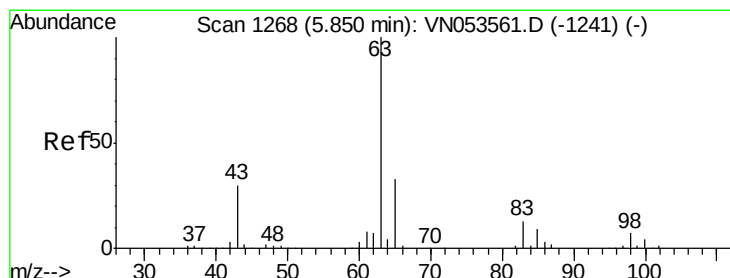
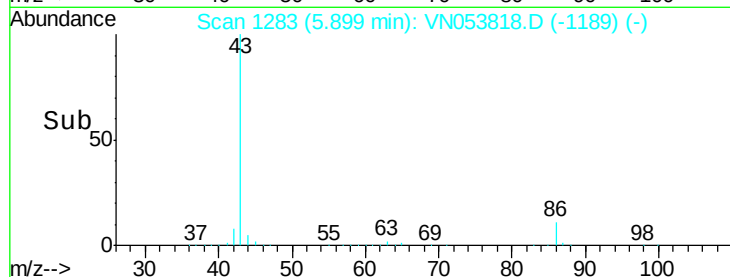
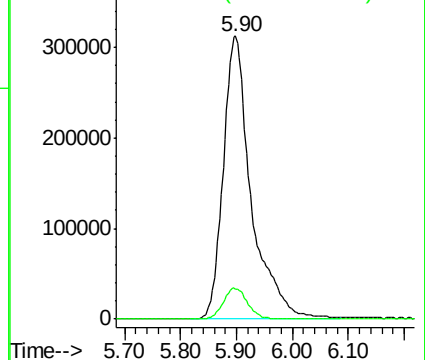
MMDadoda

2/18/2019 9:48:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.805 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

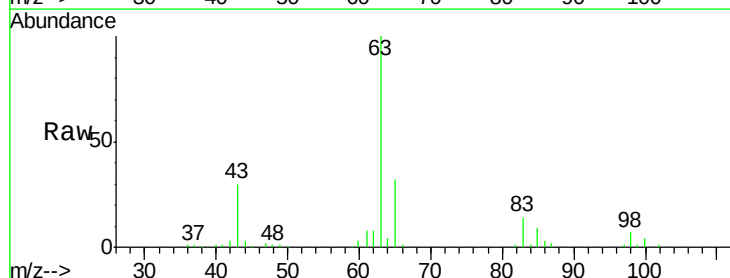
Tgt Ion: 63 Resp: 217201

Ion Ratio Lower Upper

63 100

98 7.1 3.3 9.9

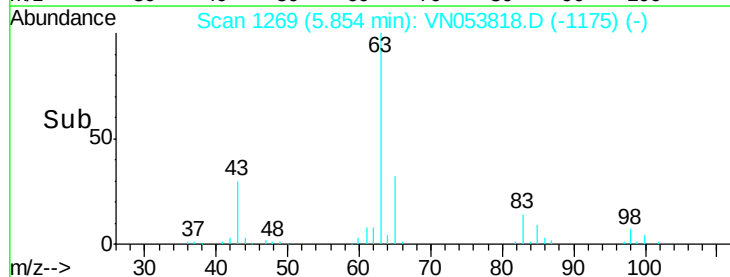
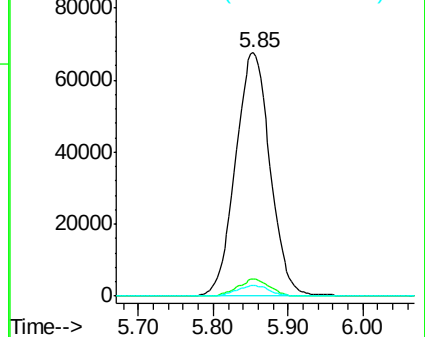
100 4.2 2.1 6.5

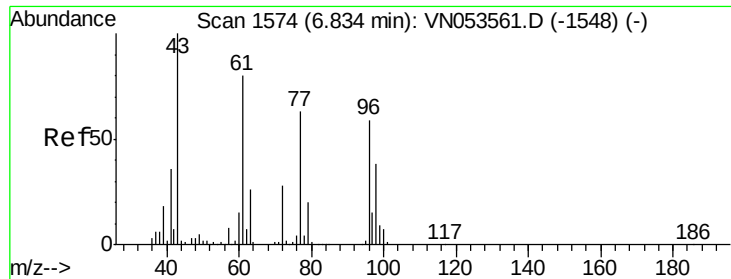


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 100.225 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 43 Resp: 210730

Ion Ratio Lower Upper

43 100

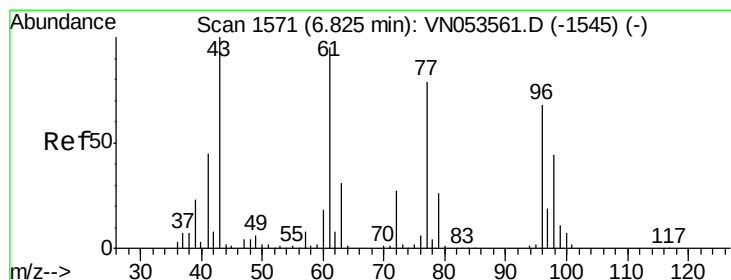
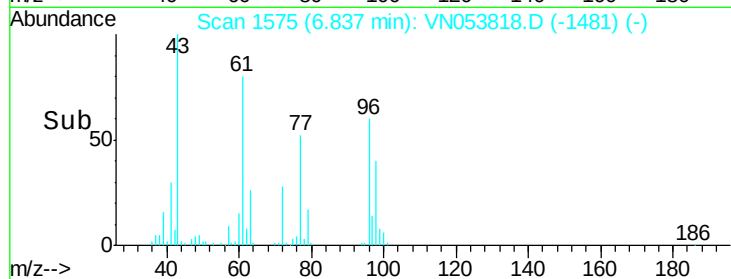
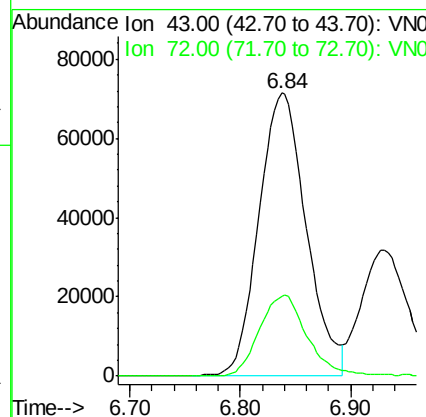
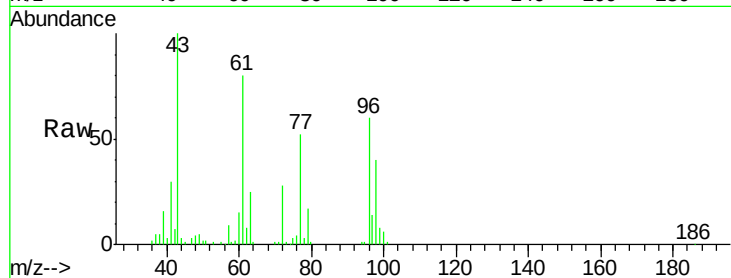
72 28.2 22.0 33.0

Manual Integrations

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MMDadoda

2/18/2019 9:48:35 AM



#26

2,2-Dichloropropane

Concen: 16.829 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN053818.D

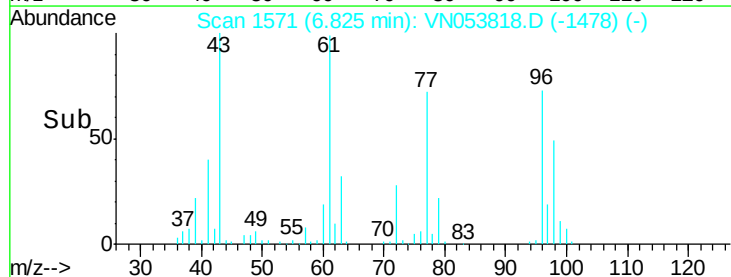
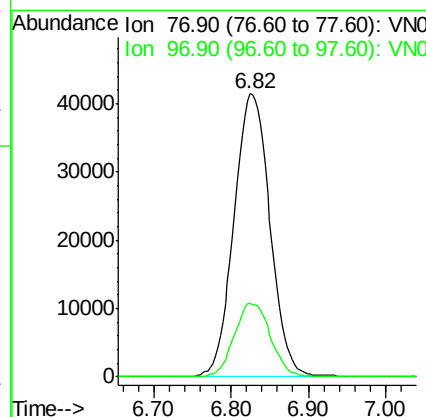
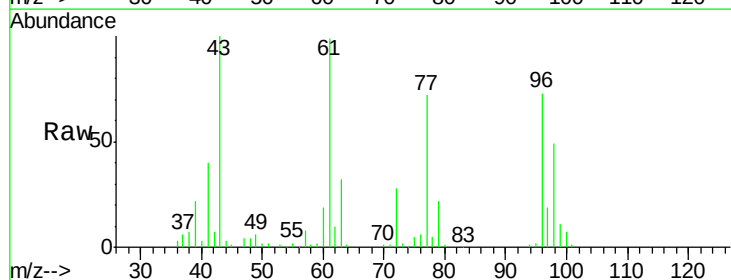
Acq: 16 Feb 2019 00:13

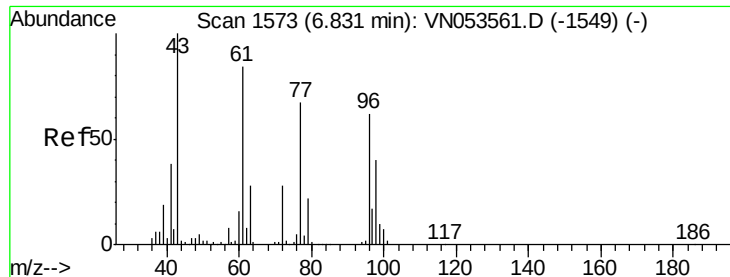
Tgt Ion: 77 Resp: 134117

Ion Ratio Lower Upper

77 100

97 26.1 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.780 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

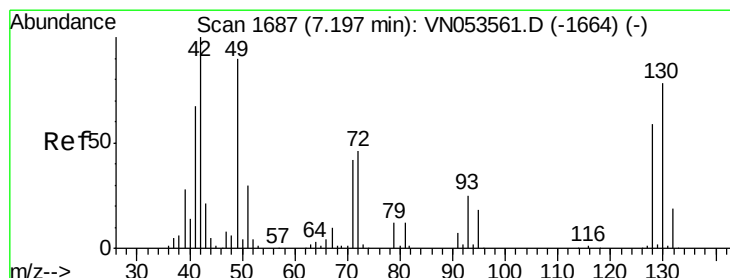
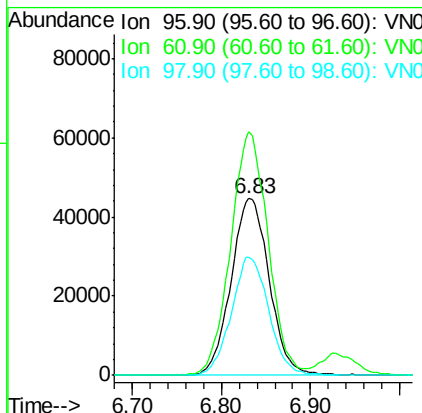
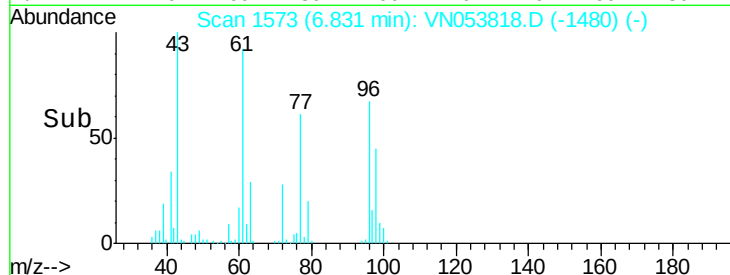
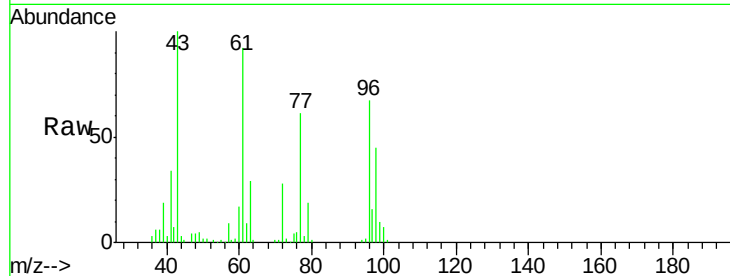
ClientSampleId :

VN0215WBSD02

Tot Ion:	96	Resp:	132253
Ion	Ratio	Lower	Upper
96	100		
61	134.7	0.0	283.8
98	65.5	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 20.843 ug/l

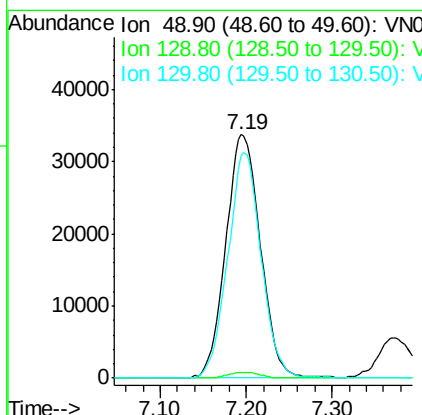
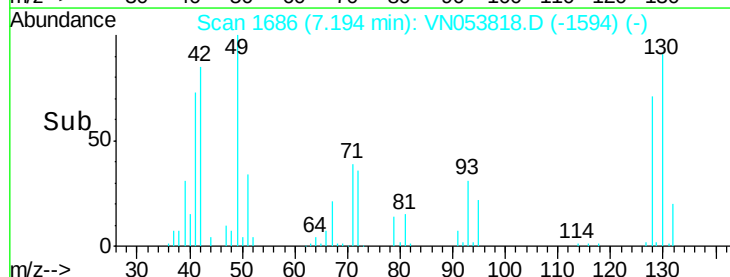
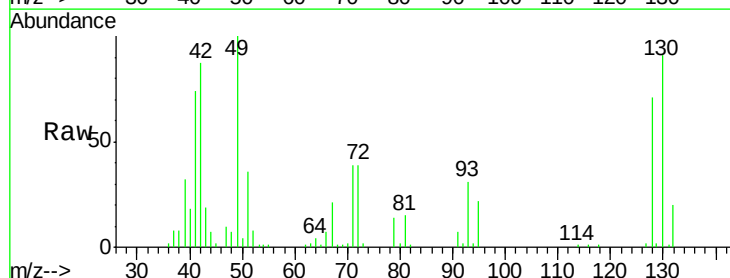
RT: 7.19 min Scan# 1686

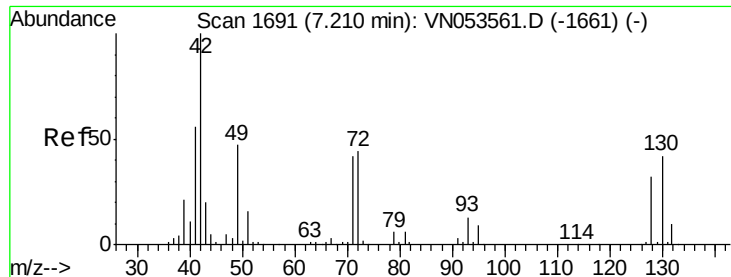
Delta R.T. -0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion:	49	Resp:	94425
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.0
130	89.0	66.3	99.5





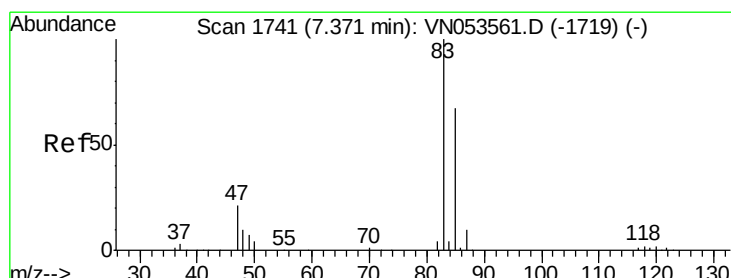
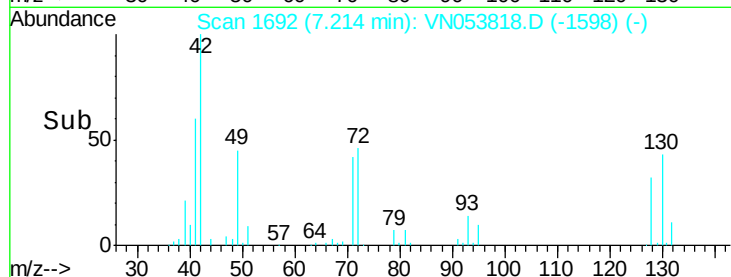
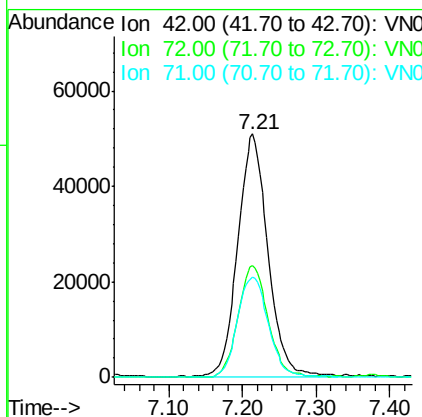
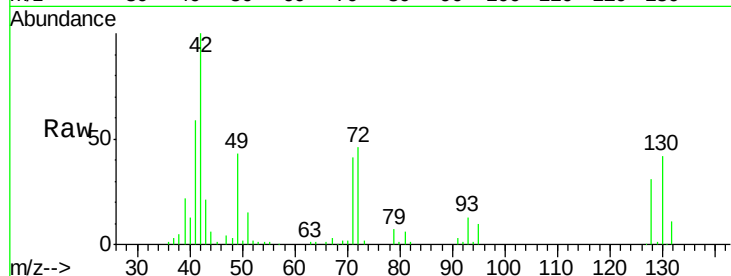
#29
Tetrahydrofuran
Concen: 106.815 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.9	35.2	52.8
71	42.9	33.0	49.4

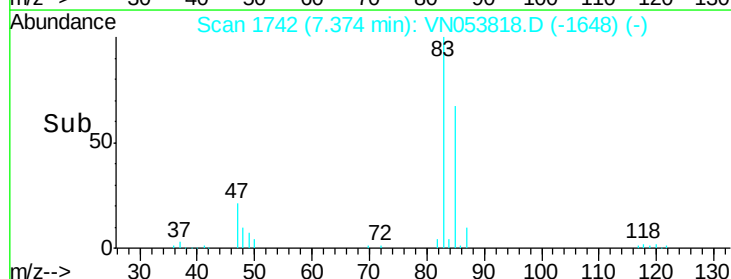
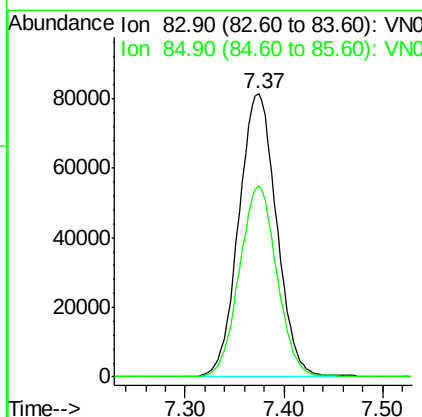
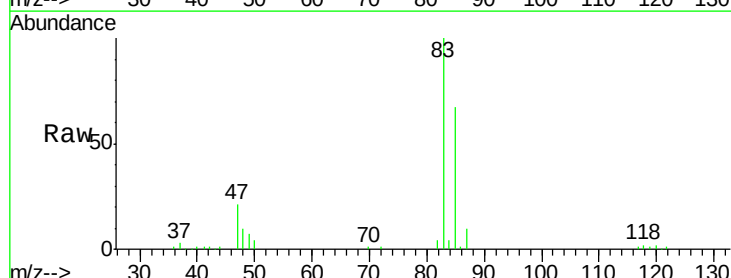
Manual Integrations
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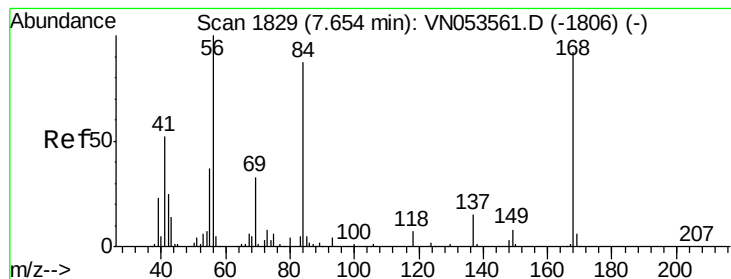
MMDadoda
2/18/2019 9:48:35 AM



#30
Chloroform
Concen: 20.850 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.3	52.2	78.2





#31

Cyclohexane

Concen: 18.285 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

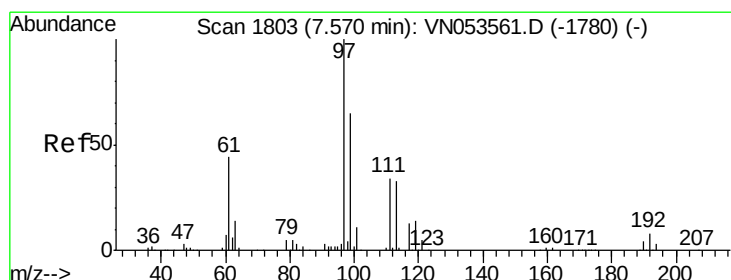
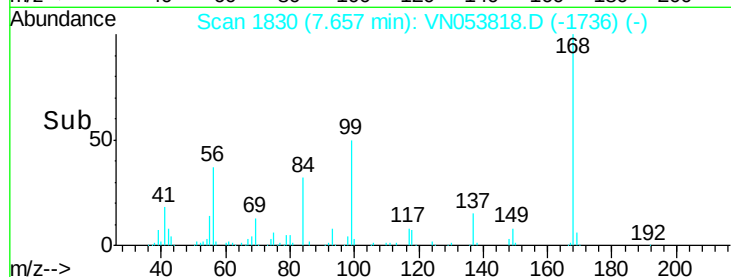
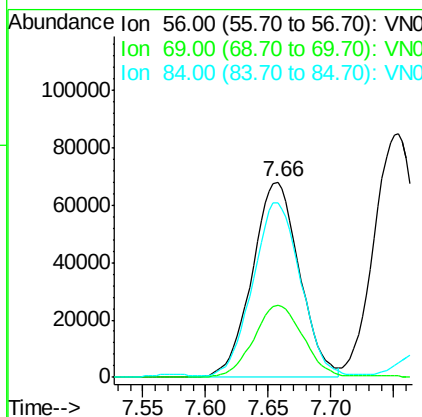
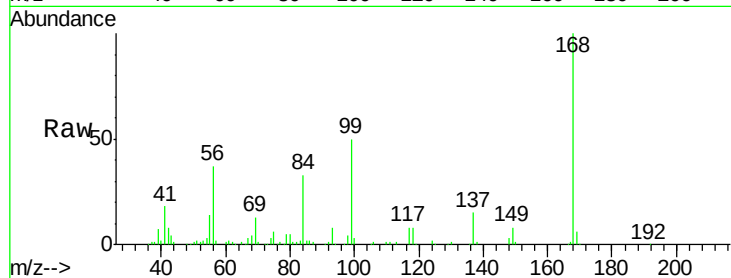
ClientSampleId :

VN0215WBSD02

Tot Ion:	56	Resp:	178773
Ion Ratio	Lower	Upper	
56	100		
69	36.9	26.4	39.6
84	88.3	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.102 ug/l

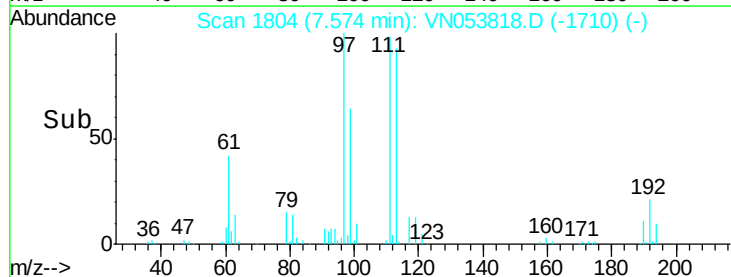
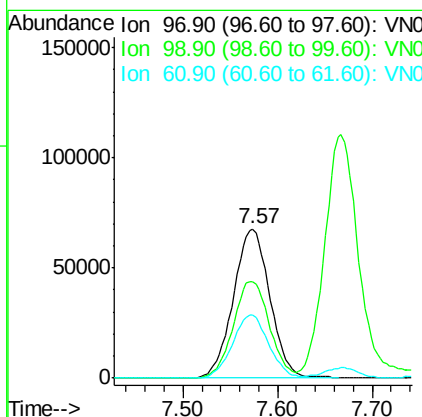
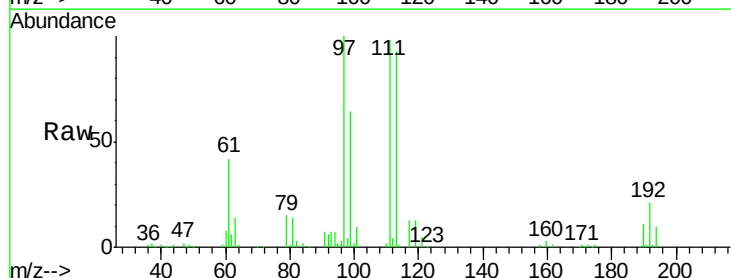
RT: 7.57 min Scan# 1804

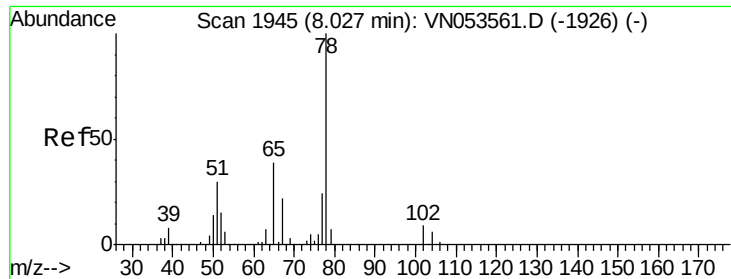
Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion:	97	Resp:	181735
Ion Ratio	Lower	Upper	
97	100		
99	64.4	52.0	78.0
61	41.8	34.4	51.6





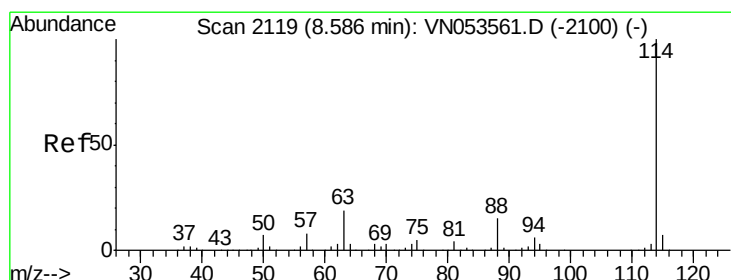
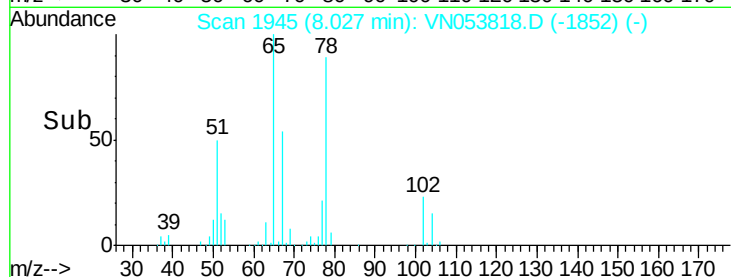
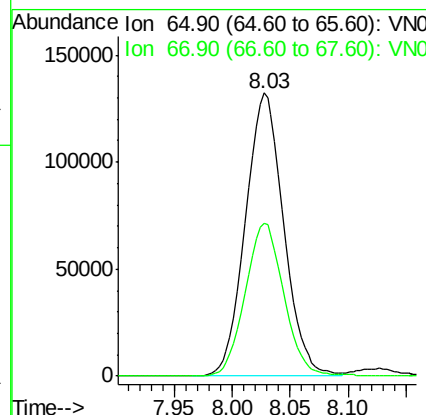
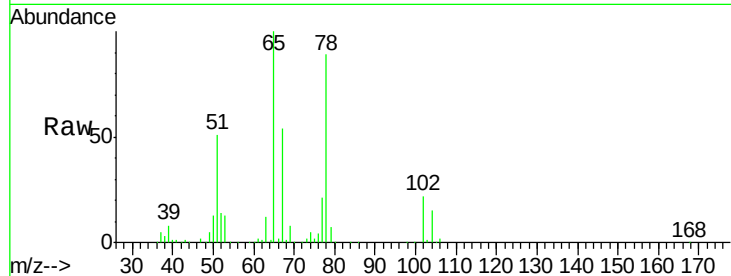
#33
 1,2-Dichloroethane-d4
 Concen: 52.914 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.7	0.0	111.2	

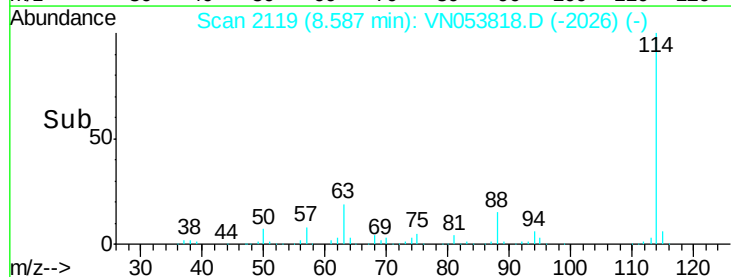
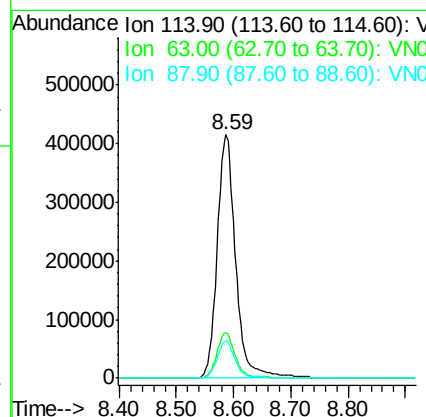
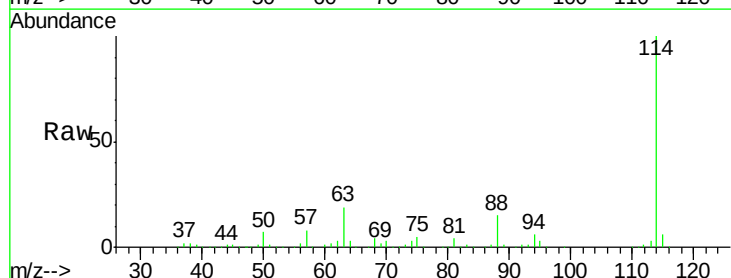
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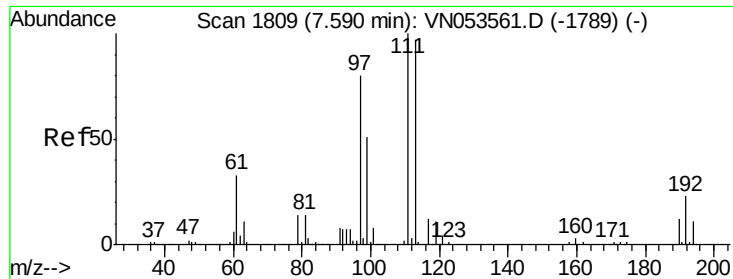
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 2/18/2019 9:48:35 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.7	0.0	38.6	
88	15.3	0.0	30.4	





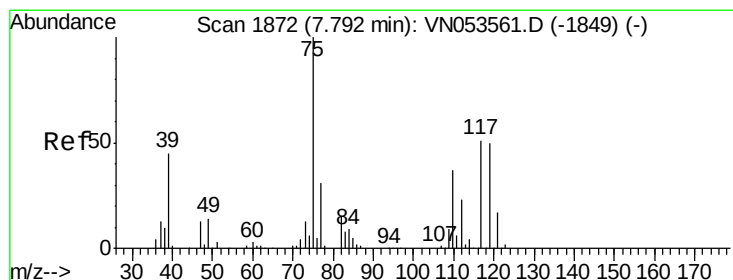
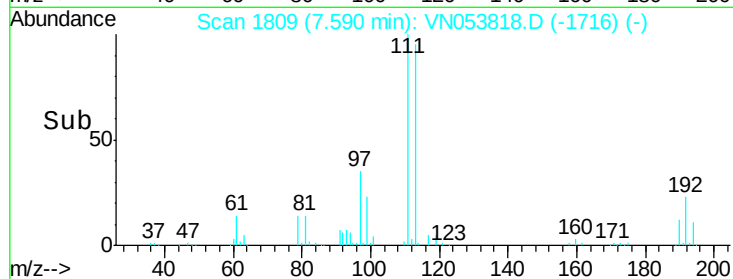
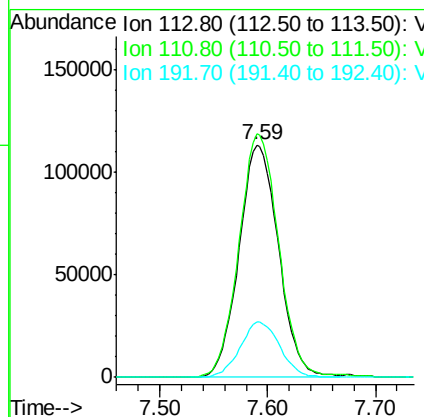
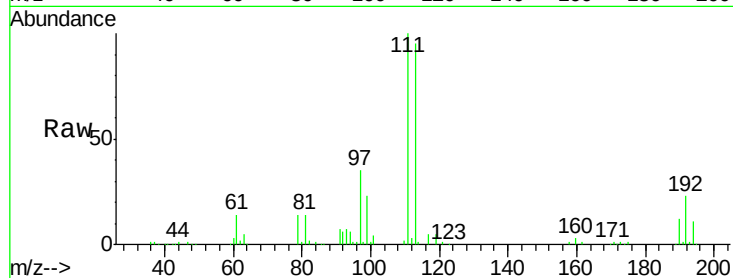
#35
Dibromofluoromethane
Concen: 48.873 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	289065		
111	105.6	81.1	121.7	
192	24.0	18.2	27.2	

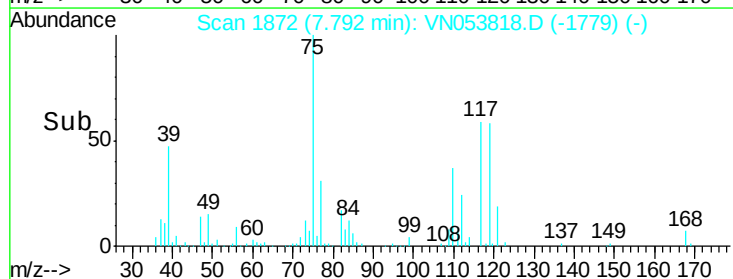
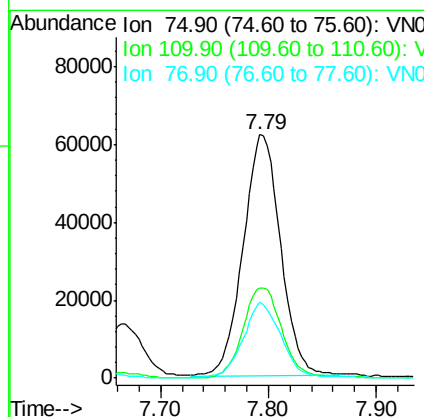
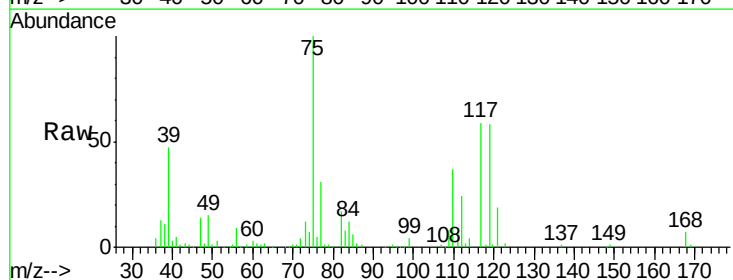
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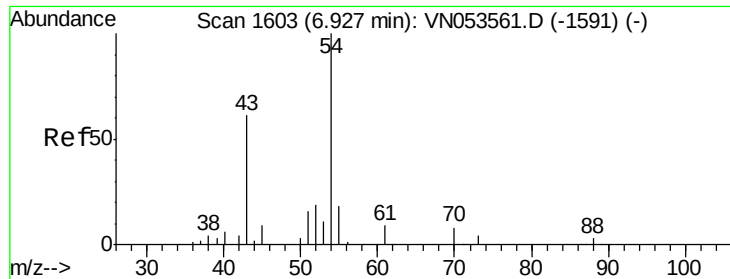
MMDadoda
2/18/2019 9:48:35 AM



#36
1,1-Dichloropropene
Concen: 17.732 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	149618		
110	38.8	18.1	54.3	
77	32.1	25.1	37.7	





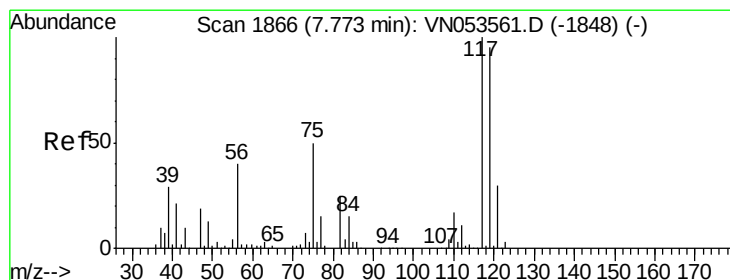
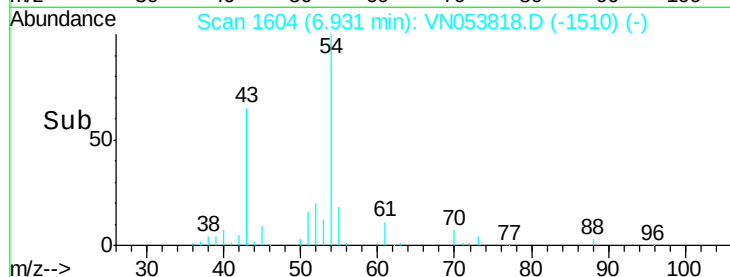
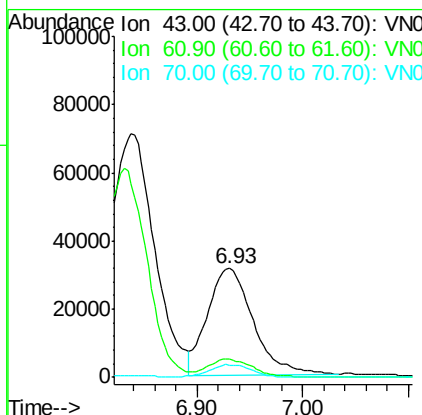
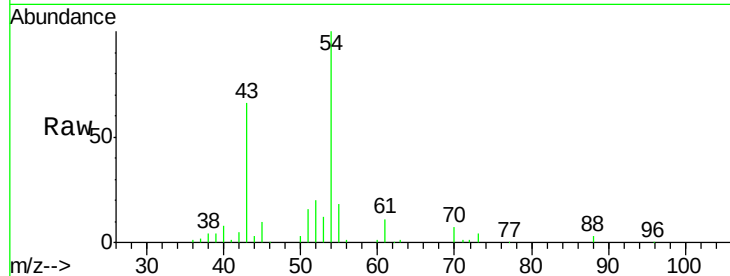
#37
Ethyl Acetate
Concen: 20.121 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	43	61	70
Resp	94822		
Ratio	100	15.8	10.8
Lower		11.8	8.6
Upper		17.6	12.8

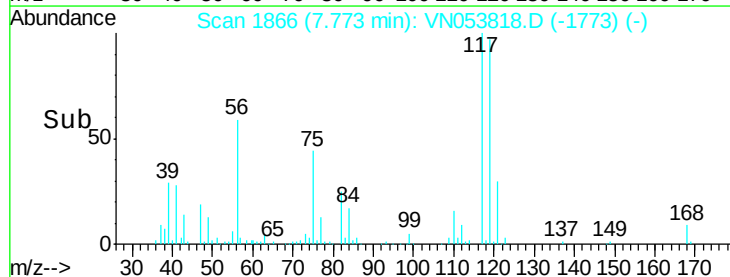
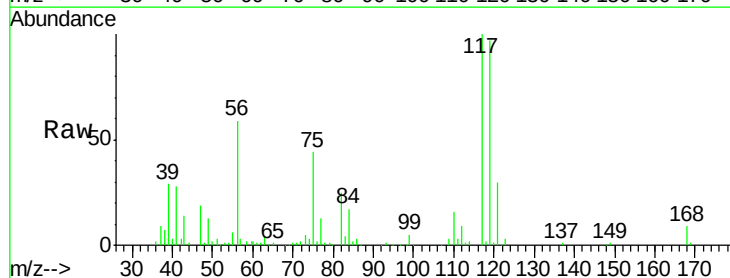
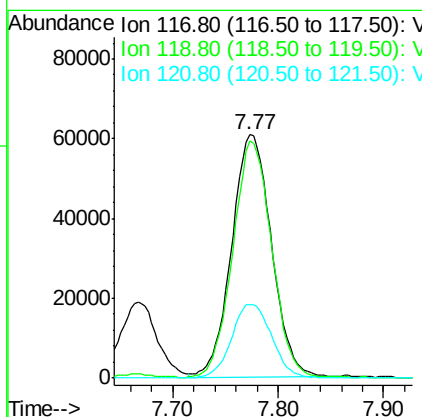
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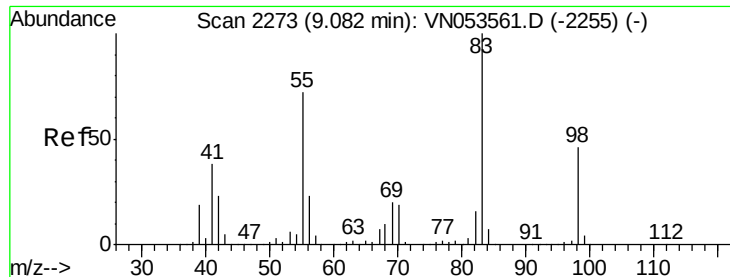
MMDadoda
2/18/2019 9:48:35 AM



#38
Carbon Tetrachloride
Concen: 18.711 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	117	119	121
Resp	159047		
Ratio	100	97.4	30.5
Lower		77.2	24.6
Upper		115.8	37.0





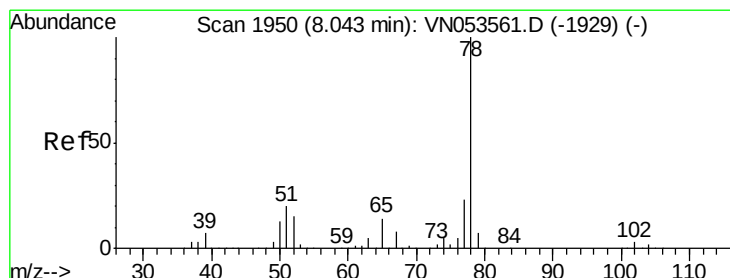
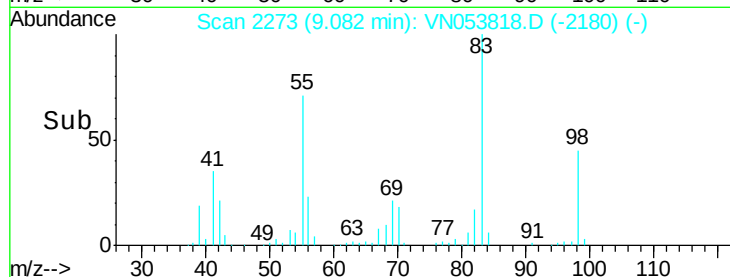
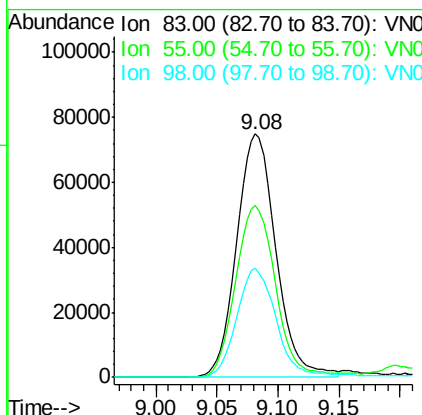
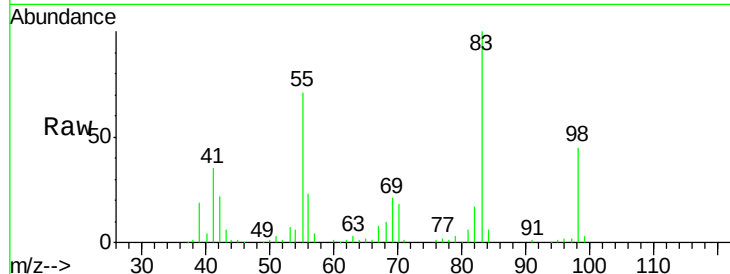
#39
Methylvlcyclohexane
Concen: 16.684 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.7	60.1	90.1
98	44.6	36.6	55.0

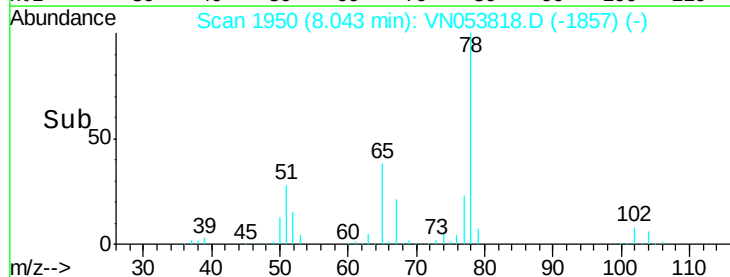
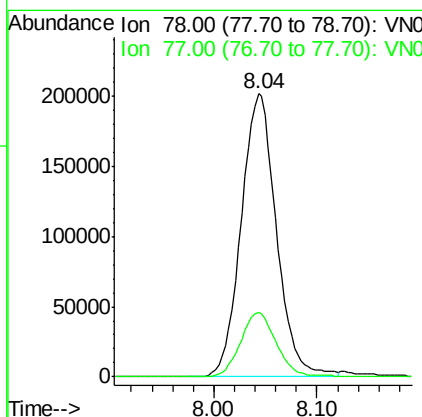
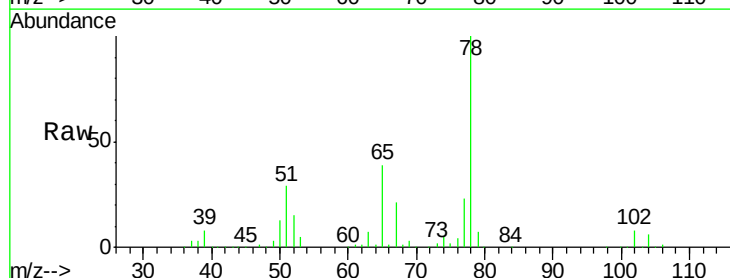
Manual Integrations
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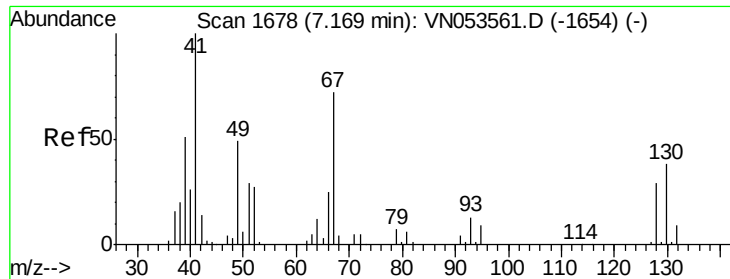
MMDadoda
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#40
Benzene
Concen: 18.431 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.8	28.2





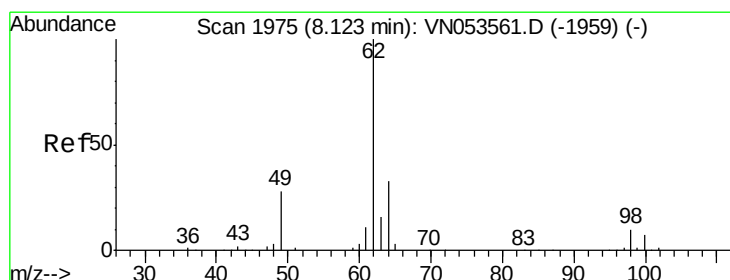
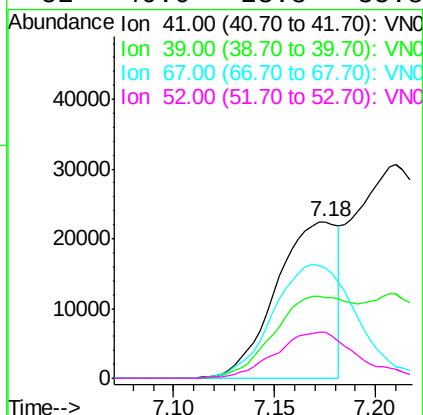
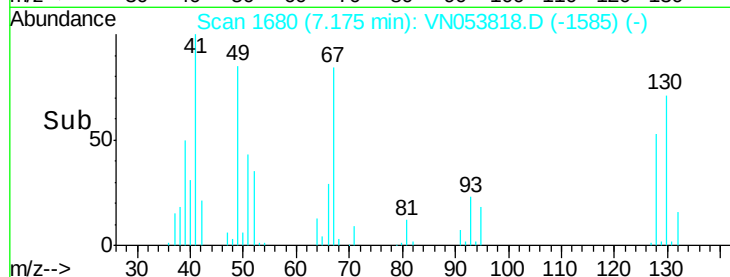
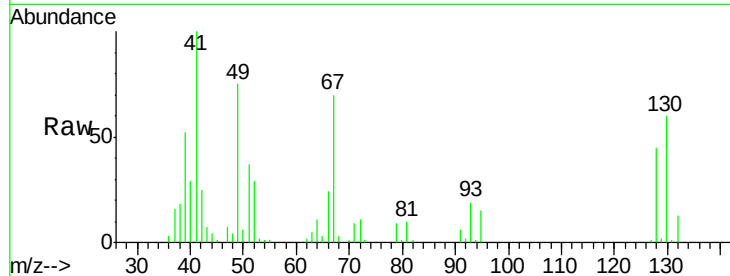
#41
Methacrylonitrile
Concen: 18.047 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
41	100		
39	66.6	46.8	70.2
67	99.5	63.0	94.6#
52	40.0	23.8	35.8#

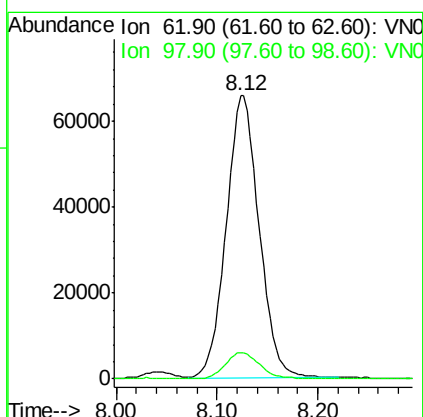
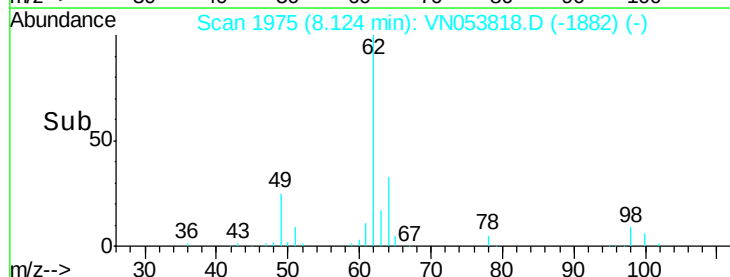
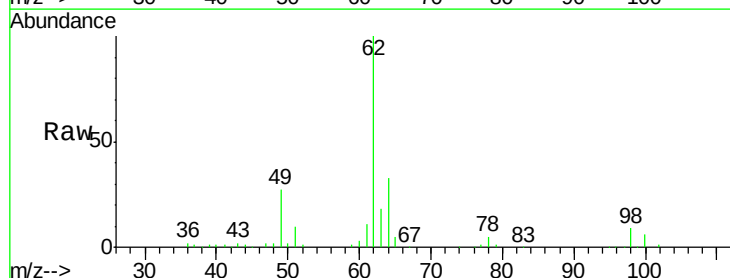
Manual Integrations
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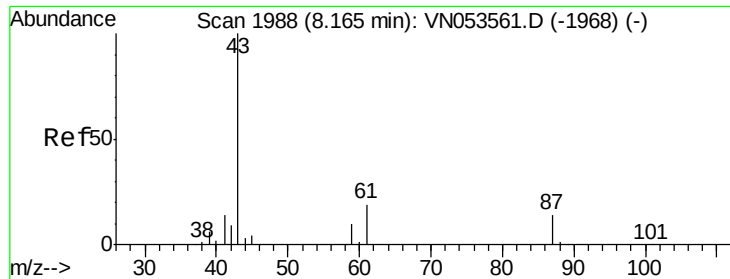
MMDadoda
2/18/2019 9:48:35 AM



#42
1,2-Dichloroethane
Concen: 19.317 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.6





#43

Isopropyl Acetate

Concen: 18.839 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

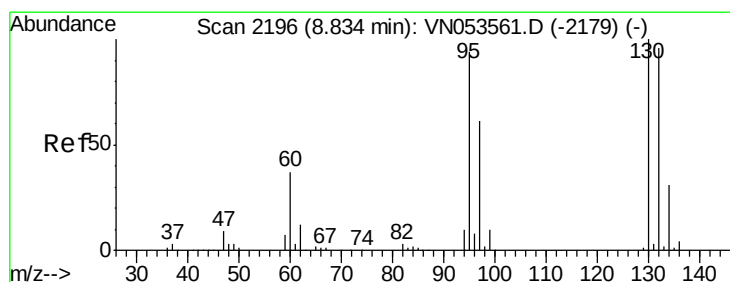
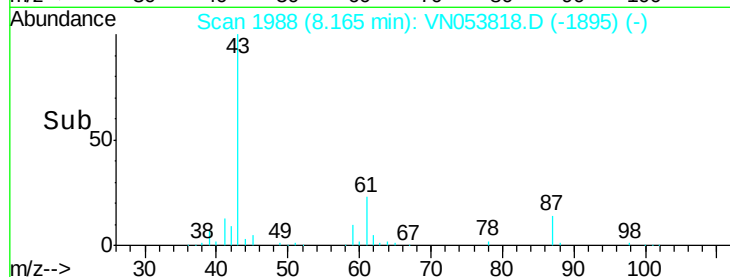
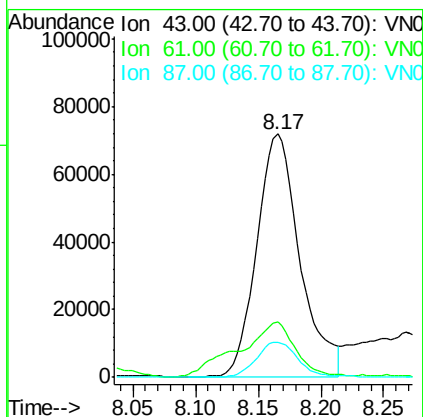
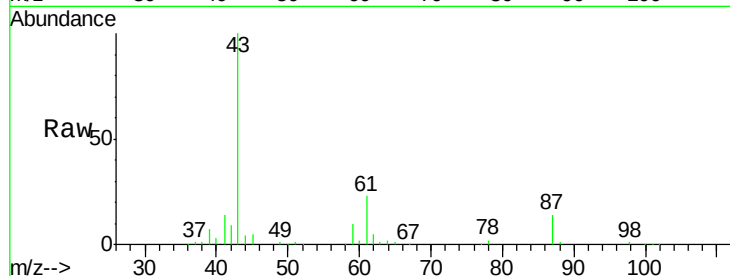
ClientSampleId :

VN0215WBSD02

Tot Ion:	43	Resp:	171455
Ion	Ratio	Lower	Upper
43	100		
61	29.0	23.9	35.9
87	14.0	11.0	16.6

Manual Integrations
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2/18/2019 9:48:35 AM



#44

Trichloroethene

Concen: 18.600 ug/l

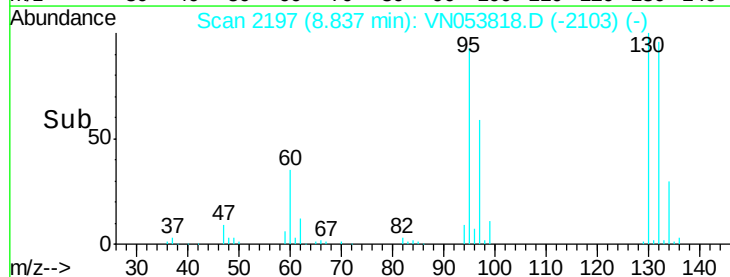
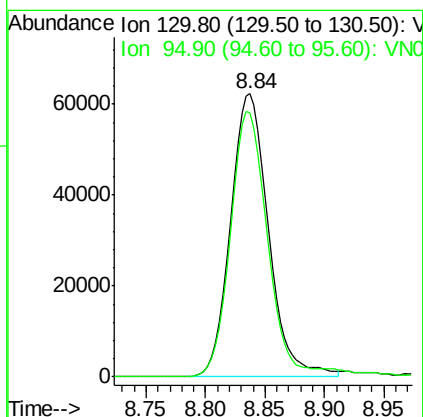
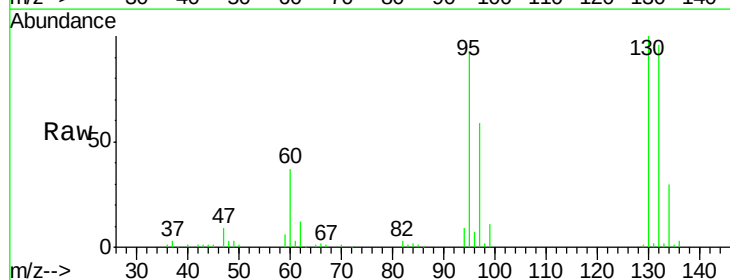
RT: 8.84 min Scan# 2197

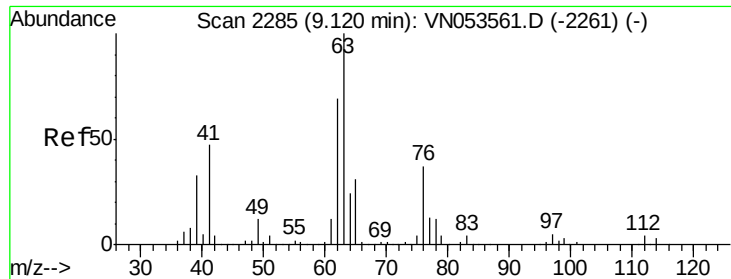
Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion:	130	Resp:	137789
Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	191.4





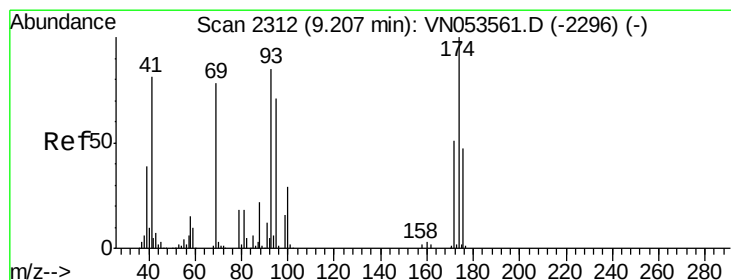
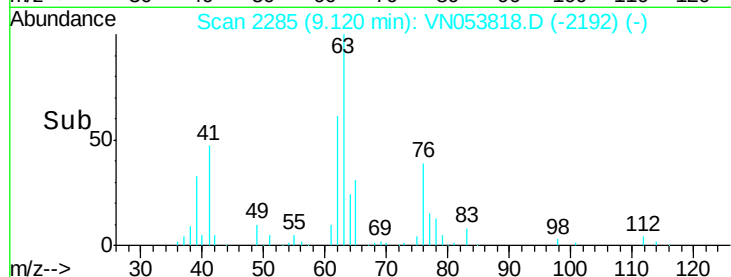
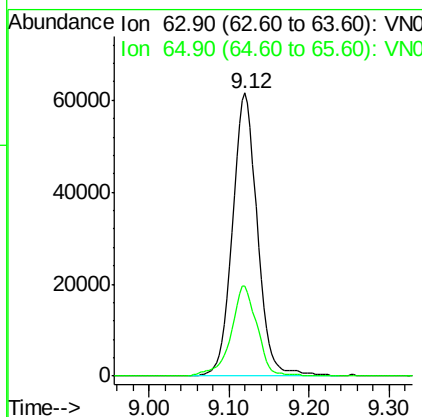
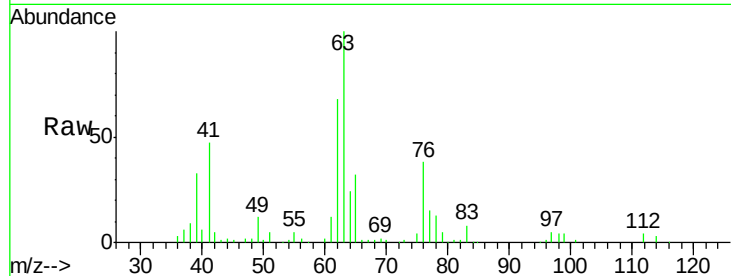
#45
 1,2-Dichloropropane
 Concen: 19.537 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.0	37.4

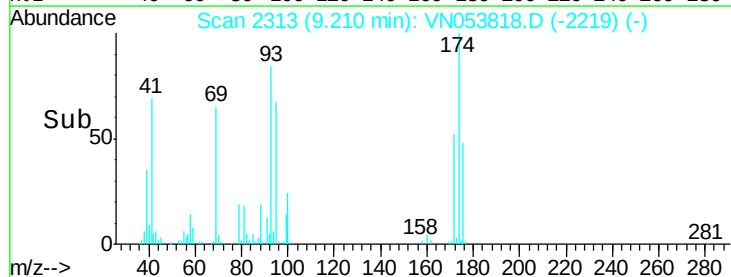
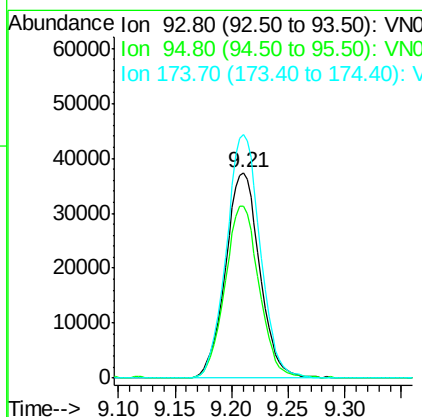
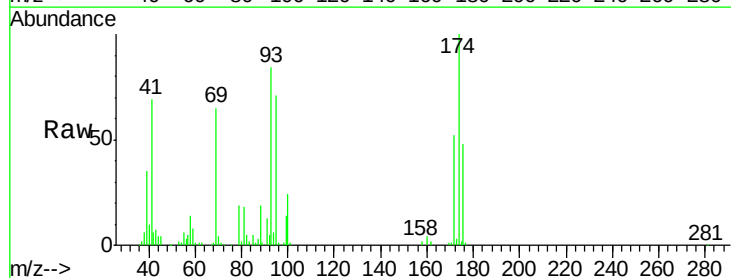
Manual Integrations
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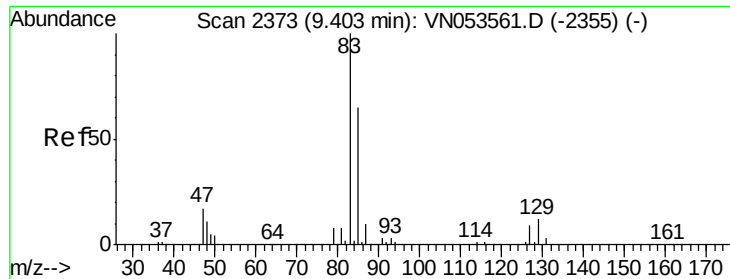
MMDadoda
 2/18/2019 9:48:35 AM



#46
 Dibromomethane
 Concen: 19.663 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.3	100.9
174	116.9	91.0	136.4





#47

Bromodichloromethane

Concen: 19.752 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

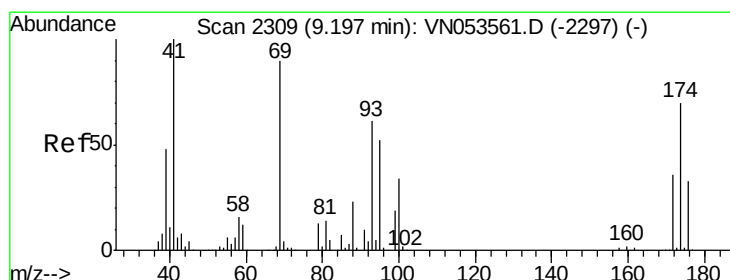
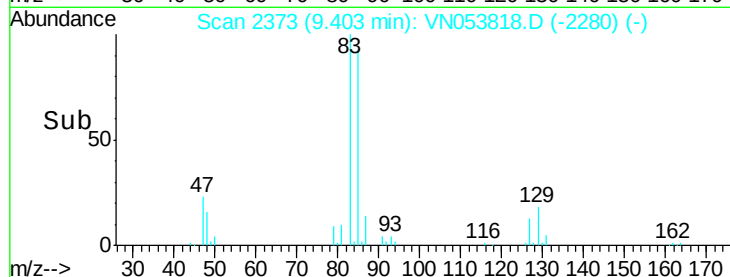
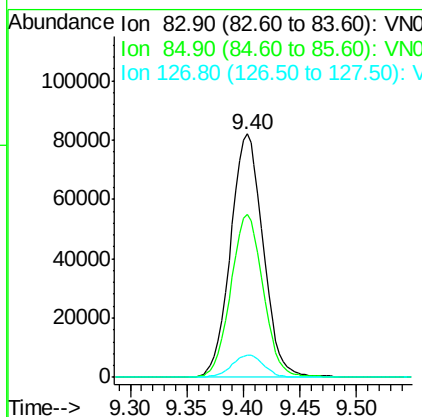
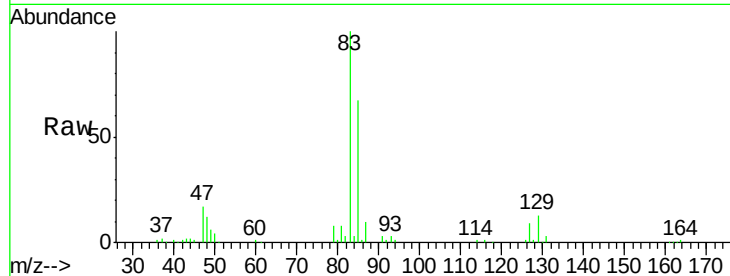
ClientSampleId :

VN0215WBSD02

Tot Ion:	83	Resp:	164761
Ion Ratio	Lower	Upper	
83	100		
85	66.7	51.0	76.6
127	9.2	7.0	10.6

Manual Integrations
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MMDadoda
2/18/2019 9:48:35 AM



#48

Methyl methacrylate

Concen: 18.972 ug/l

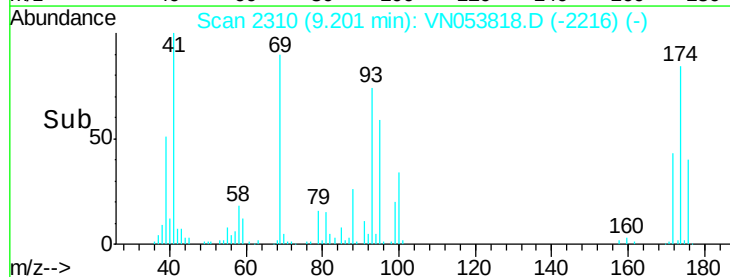
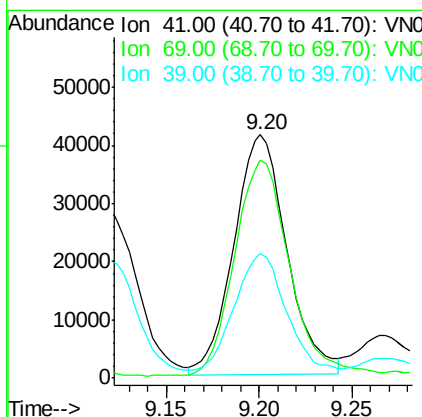
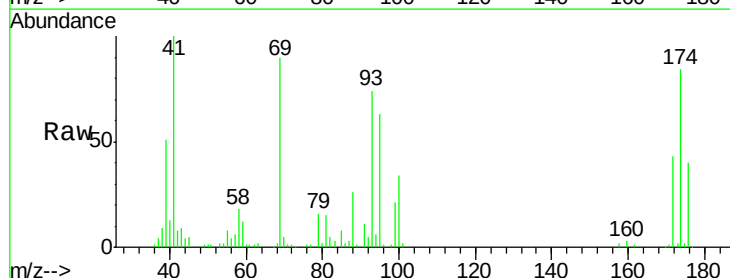
RT: 9.20 min Scan# 2310

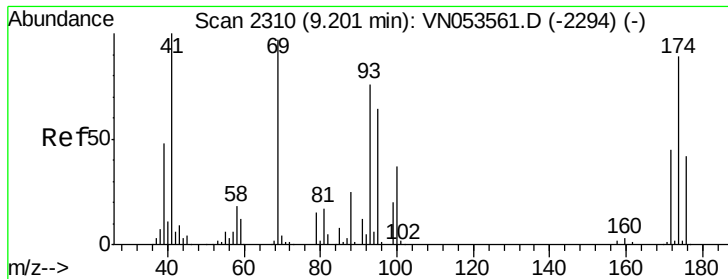
Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion:	41	Resp:	82421
Ion Ratio	Lower	Upper	
41	100		
69	92.2	73.8	110.6
39	53.0	40.0	60.0





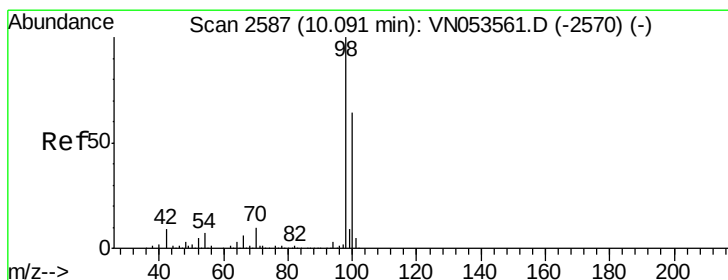
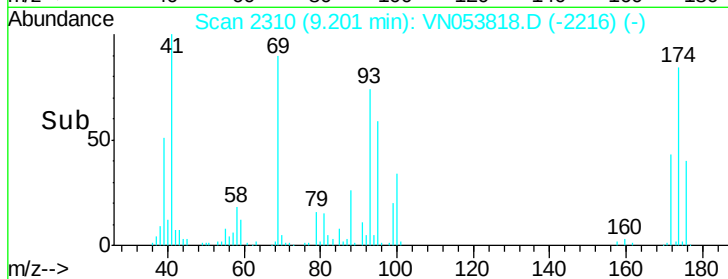
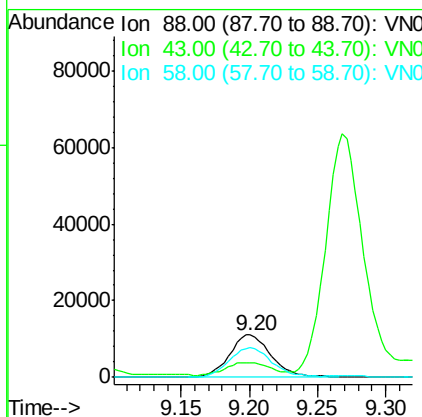
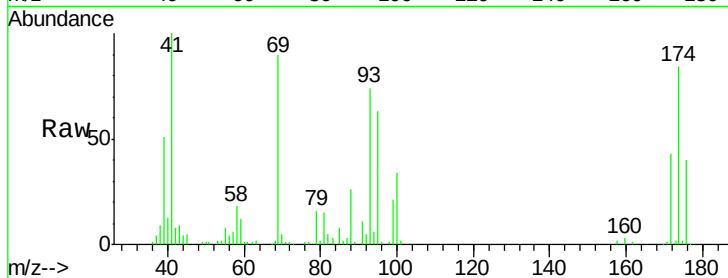
#49
 1,4-Dioxane
 Concen: 400.919 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.8	27.8	41.6
58	71.6	56.5	84.7

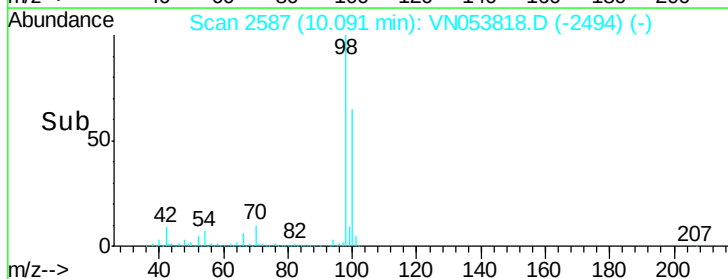
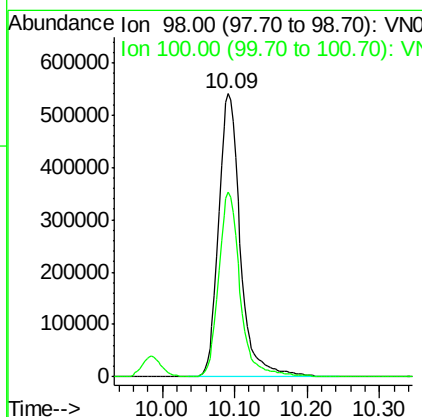
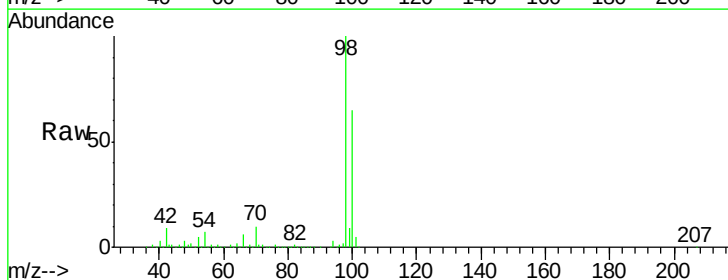
Manual Integrations
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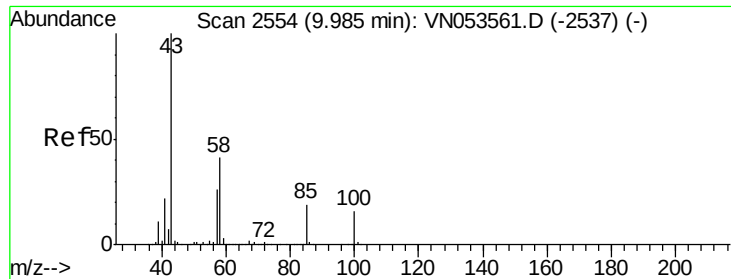
MMDadoda
 2/18/2019 9:48:35 AM



#50
 Toluene-d8
 Concen: 50.585 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 107.752 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 43 Resp: 481896

Ion Ratio Lower Upper

43 100

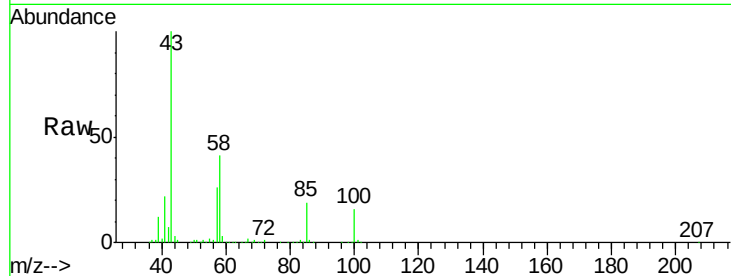
58 40.9 32.8 49.2

Manual Integrations

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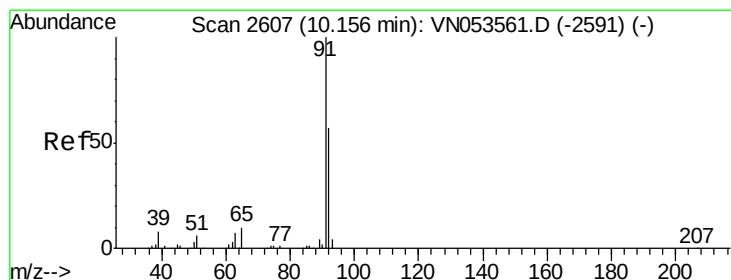
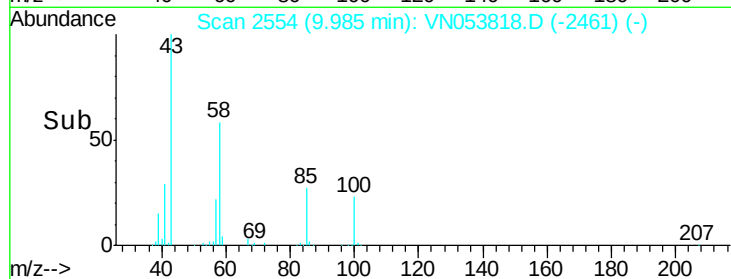
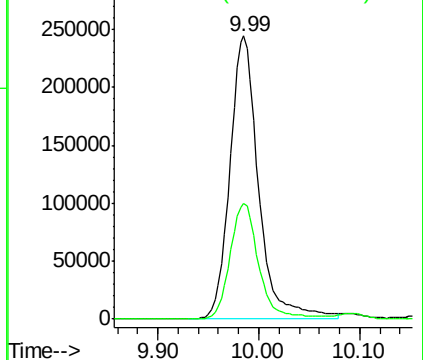
MMDadoda

2/18/2019 9:48:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.379 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053818.D

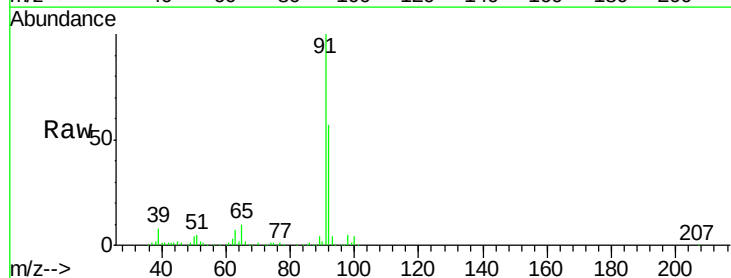
Acq: 16 Feb 2019 00:13

Tgt Ion: 92 Resp: 314714

Ion Ratio Lower Upper

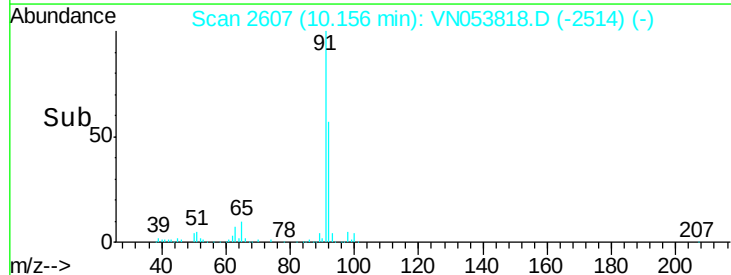
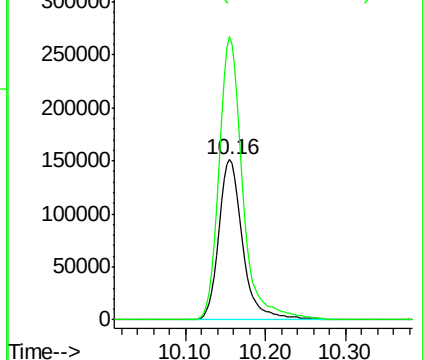
92 100

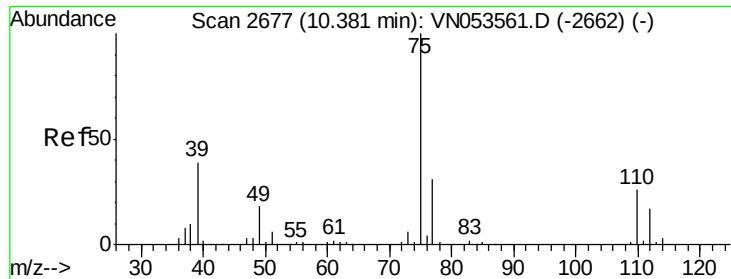
91 174.2 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





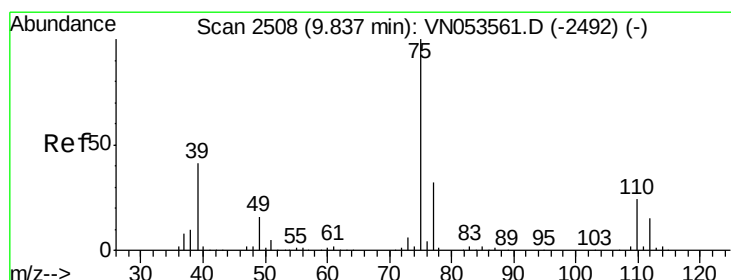
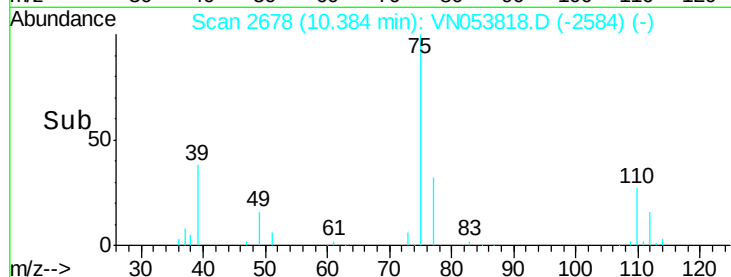
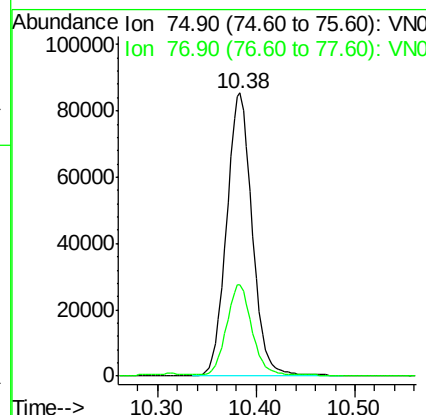
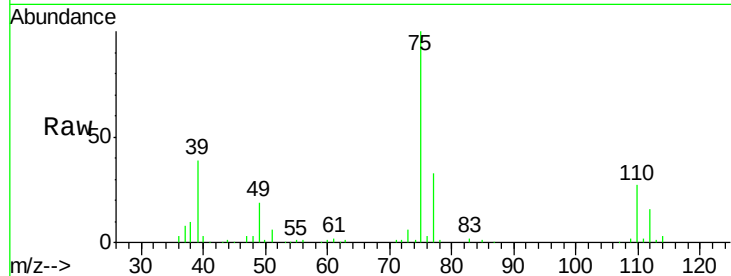
#53
t-1,3-Dichloropropene
Concen: 18.683 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion: 75 Resp: 156055
Ion Ratio Lower Upper
75 100
77 32.3 25.5 38.3

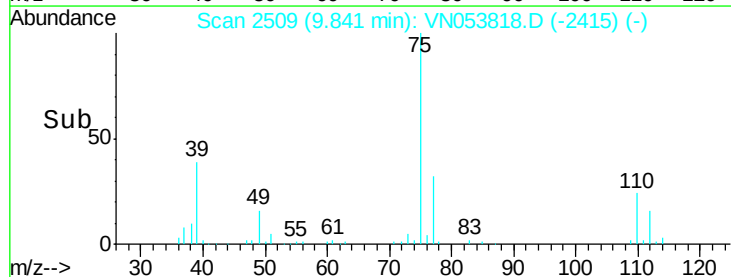
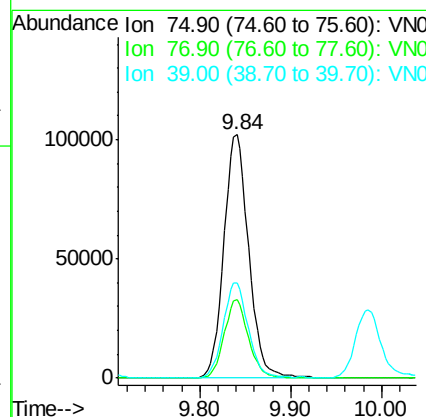
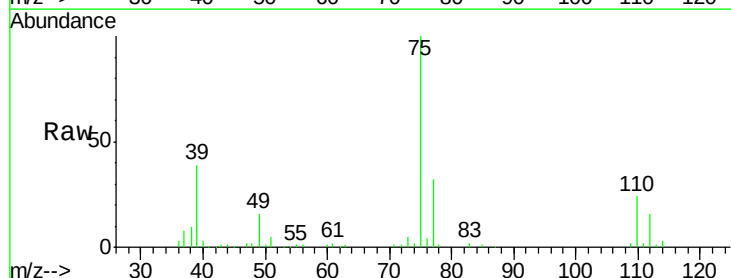
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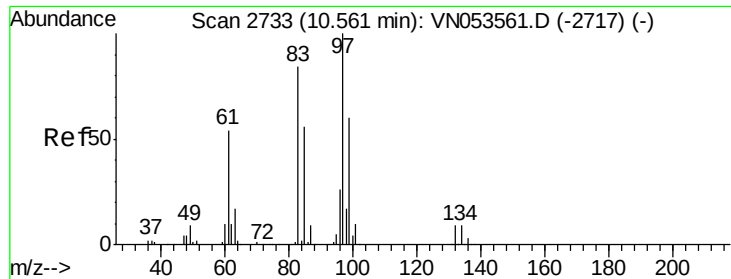
MMDadoda
2/18/2019 9:48:35 AM



#54
cis-1,3-Dichloropropene
Concen: 19.552 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion: 75 Resp: 193524
Ion Ratio Lower Upper
75 100
77 32.2 25.8 38.6
39 38.8 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 20.501 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

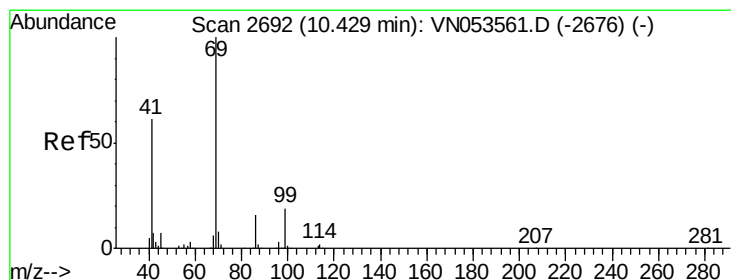
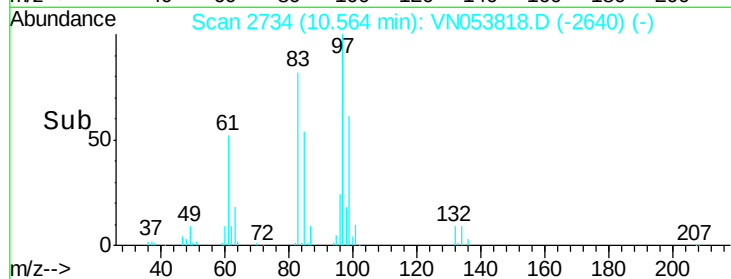
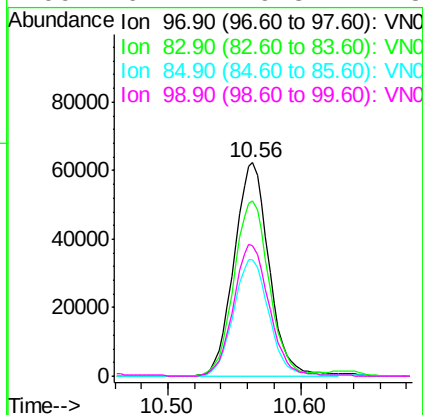
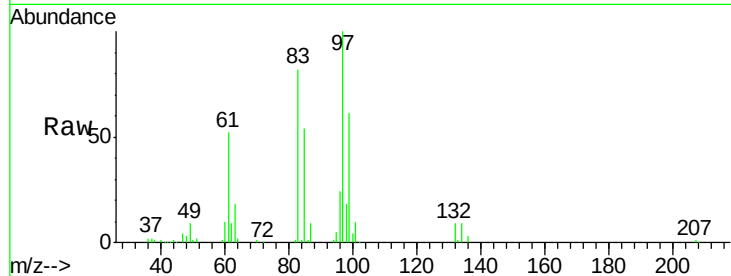
ClientSampleId :

VN0215WBSD02

Tot Ion:	97	Resp:	114082
Ion	Ratio	Lower	Upper
97	100		
83	82.3	70.1	105.1
85	54.4	45.4	68.0
99	61.2	49.8	74.8

Manual Integrations
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2/18/2019 9:48:35 AM



#56

Ethyl methacrylate

Concen: 20.076 ug/l

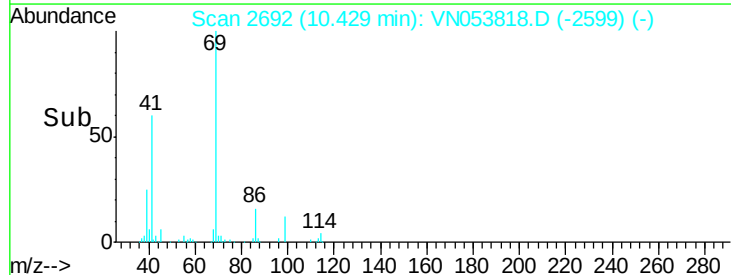
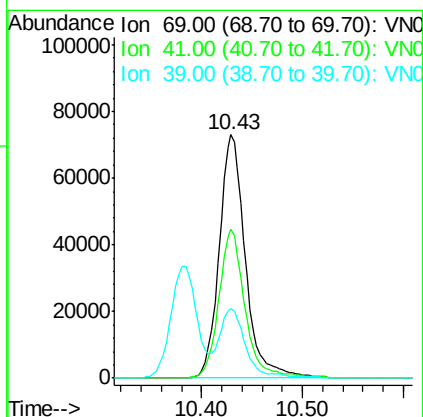
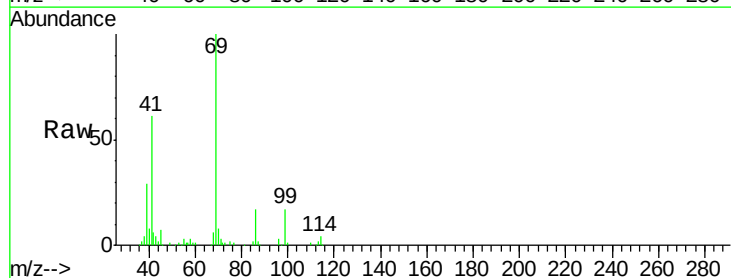
RT: 10.43 min Scan# 2692

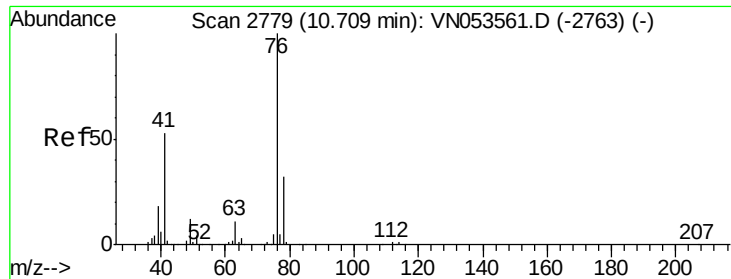
Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion:	69	Resp:	132160
Ion	Ratio	Lower	Upper
69	100		
41	59.7	49.4	74.0
39	28.2	23.3	34.9





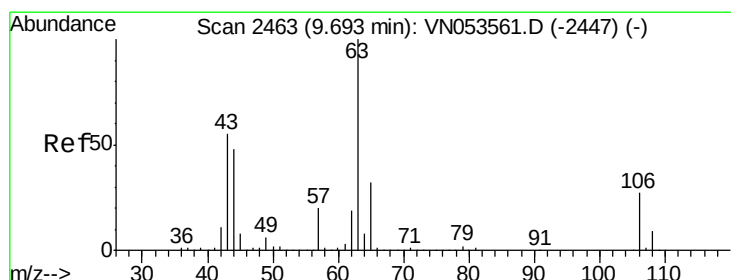
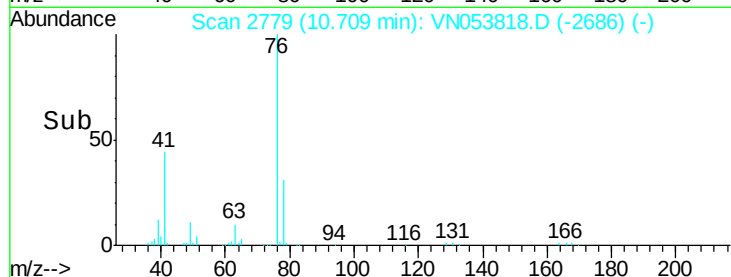
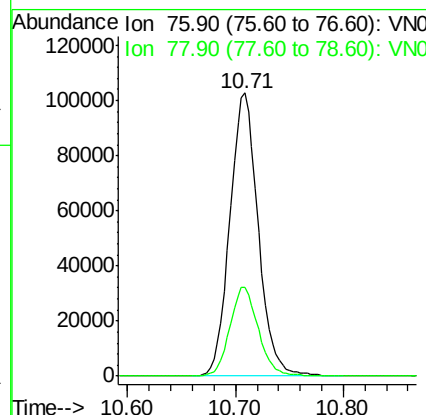
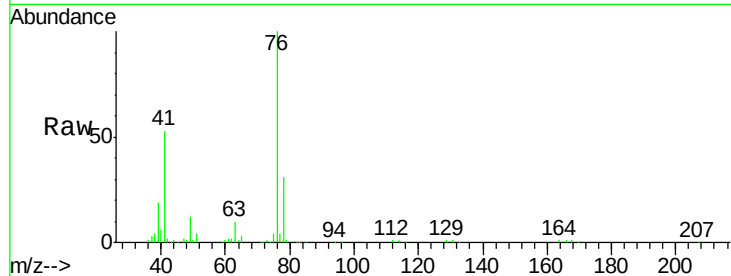
#57
 1,3-Dichloropropane
 Concen: 19.834 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion: 76 Resp: 188627
 Ion Ratio Lower Upper
 76 100
 78 31.6 25.6 38.4

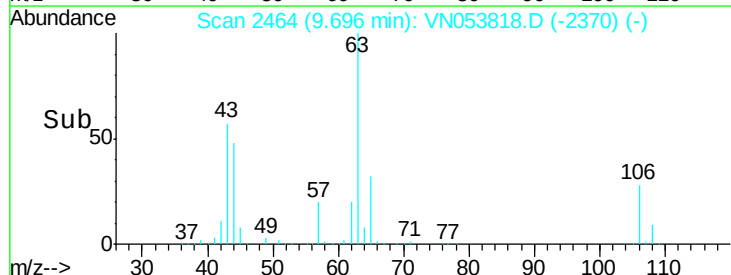
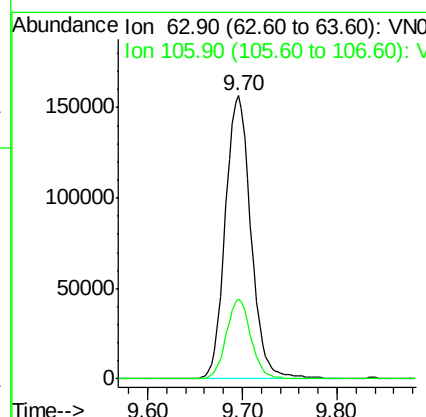
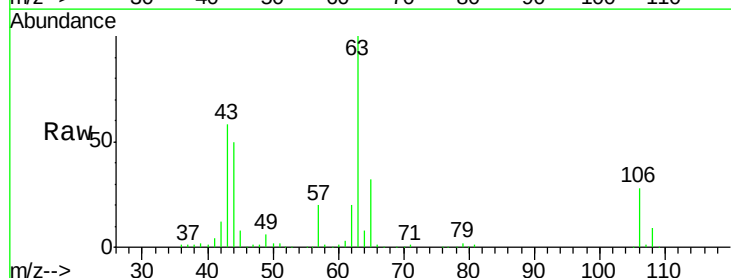
Manual Integrations
 APPROVED

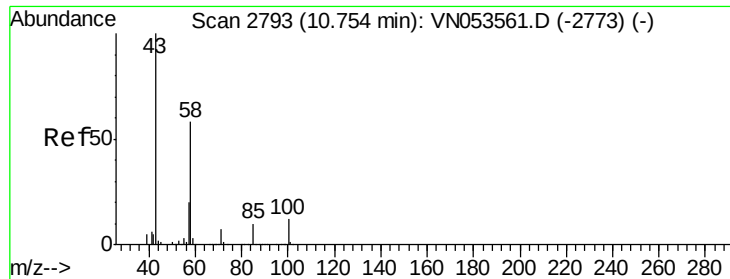
MMDadoda
 2/18/2019 9:48:35 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 78.150 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion: 63 Resp: 295838
 Ion Ratio Lower Upper
 63 100
 106 27.2 21.5 32.3





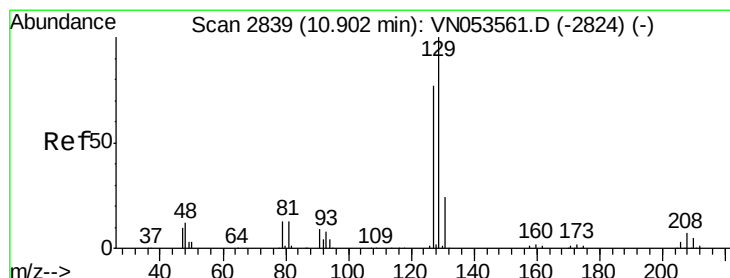
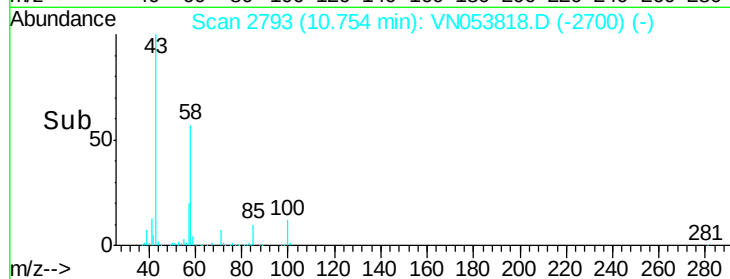
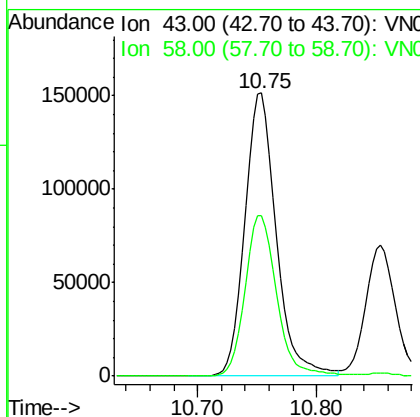
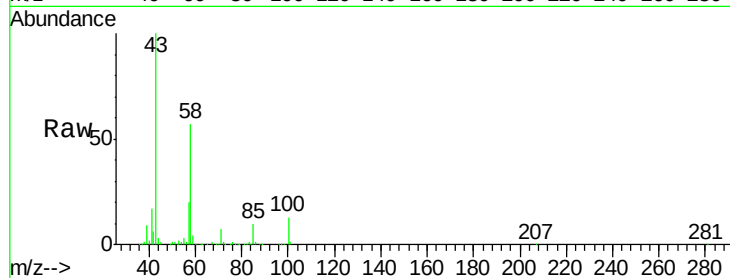
#59
2-Hexanone
Concen: 90.810 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion: 43 Resp: 275707
Ion Ratio Lower Upper
43 100
58 57.4 28.6 85.8

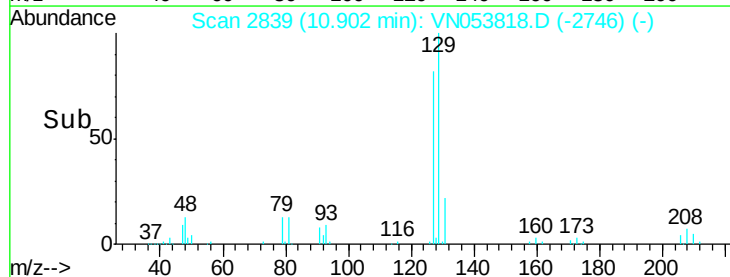
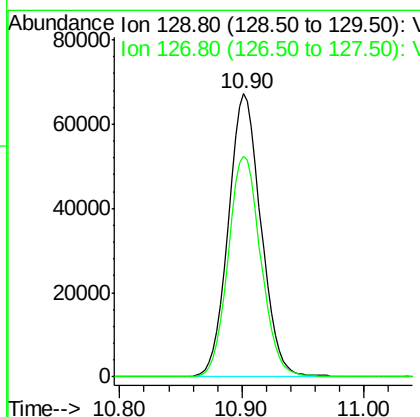
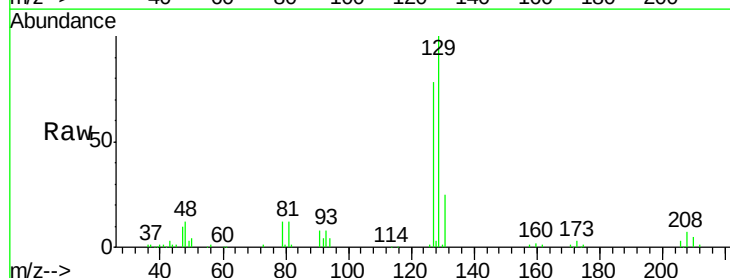
Manual Integrations
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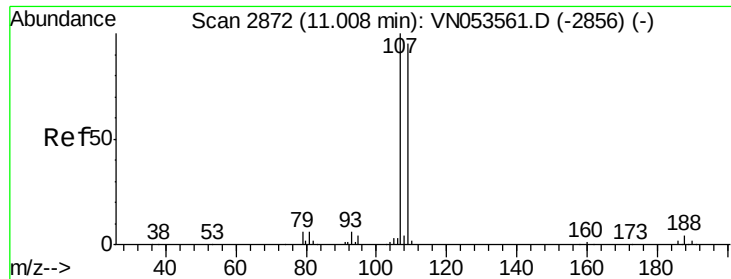
MMDadoda
2/18/2019 9:48:35 AM



#60
Dibromochloromethane
Concen: 19.966 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion: 129 Resp: 125292
Ion Ratio Lower Upper
129 100
127 78.1 38.6 115.8





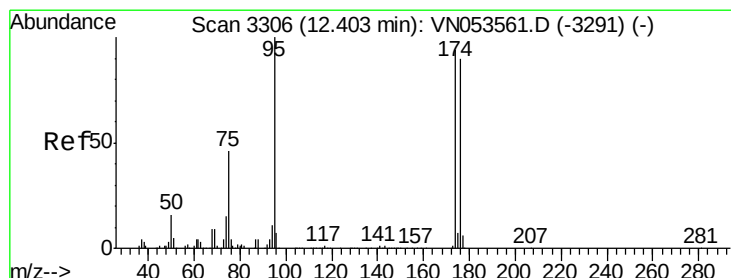
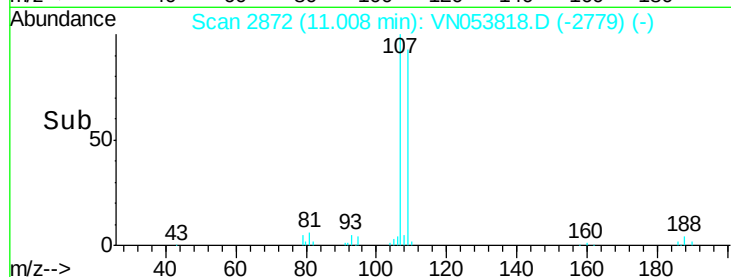
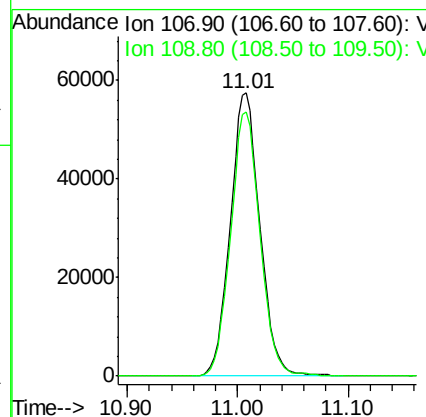
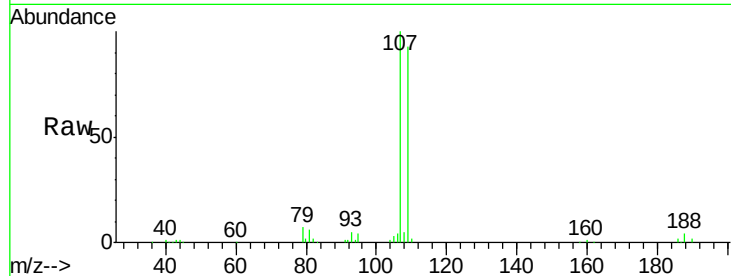
#61
 1,2-Dibromoethane
 Concen: 19.425 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.7	113.5

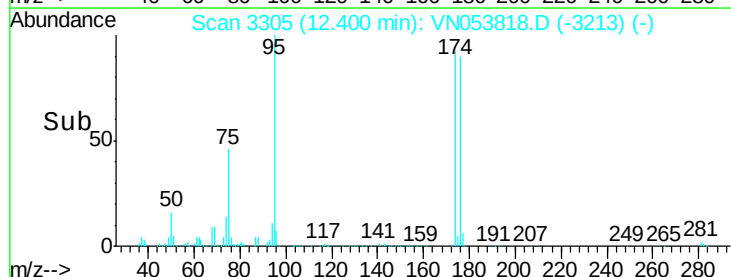
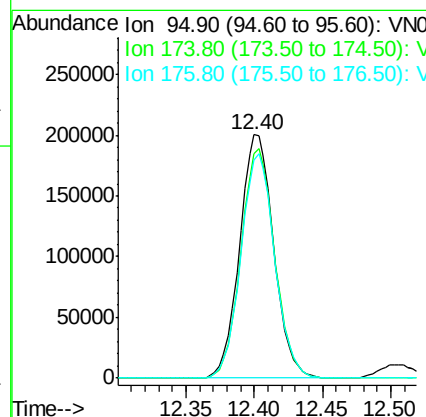
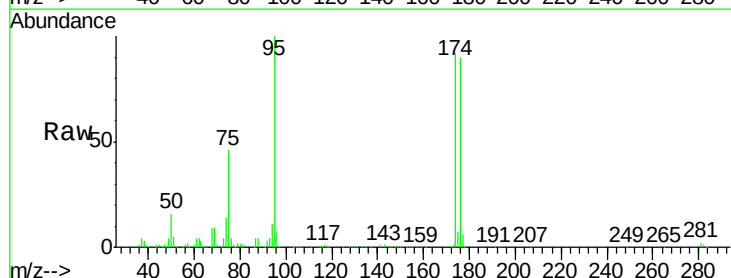
Manual Integrations
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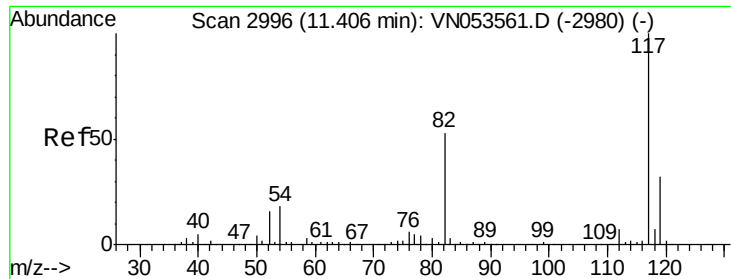
MMDadoda
 2/18/2019 9:48:35 AM



#62
 4-Bromofluorobenzene
 Concen: 46.737 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.4	0.0	183.2
176	91.5	0.0	177.4





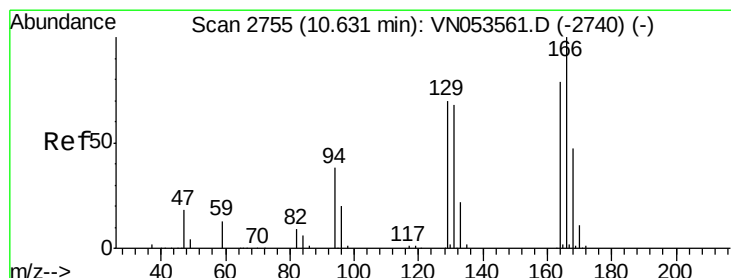
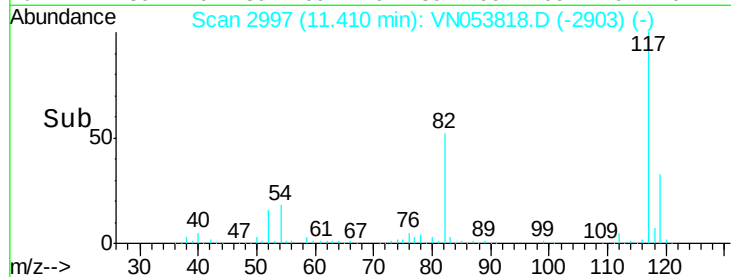
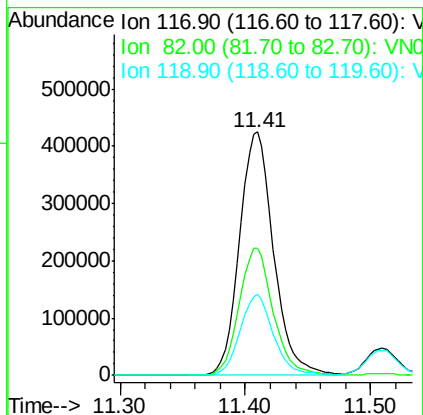
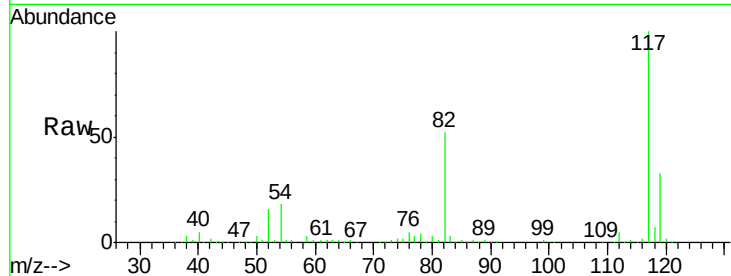
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.9	64.3
119	33.1	26.0	39.0

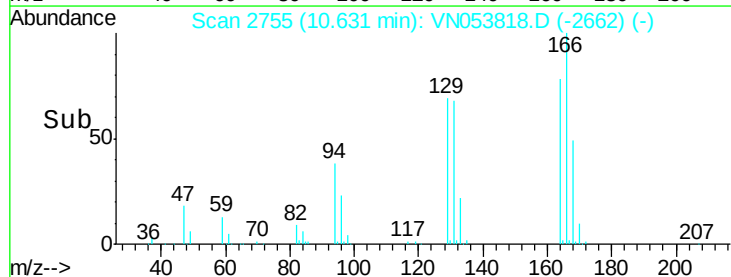
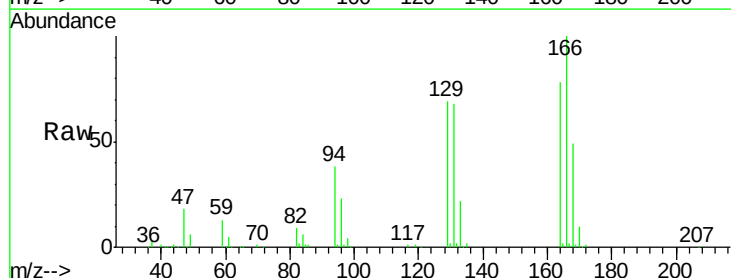
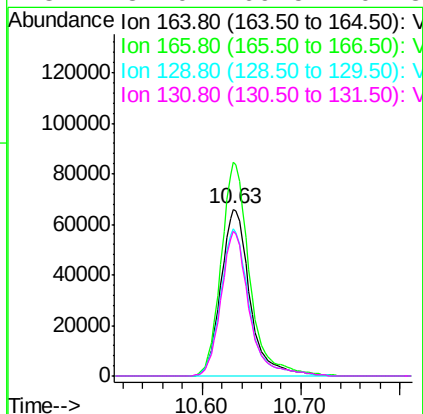
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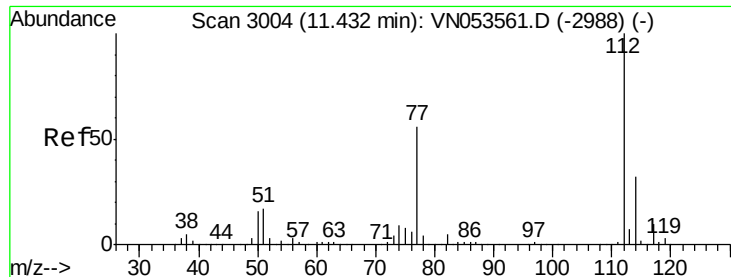
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#64
Tetrachloroethene
Concen: 19.714 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	102.2	153.4
129	87.9	72.6	109.0
131	87.0	69.5	104.3





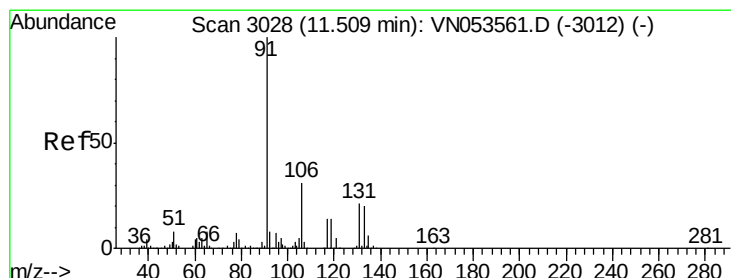
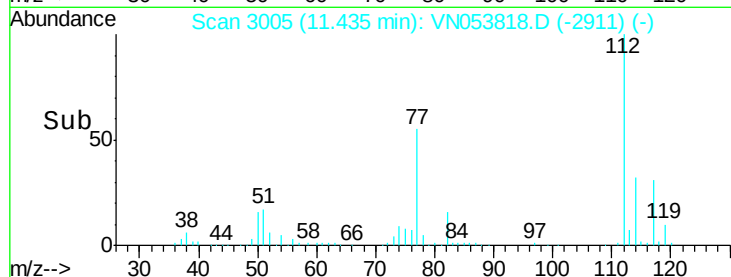
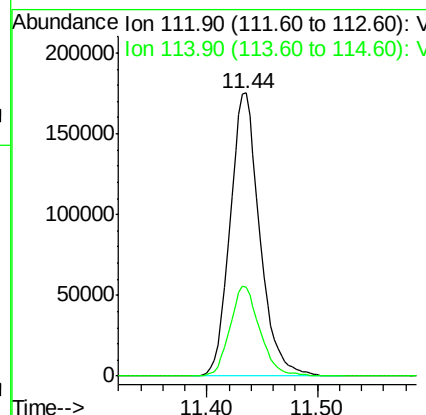
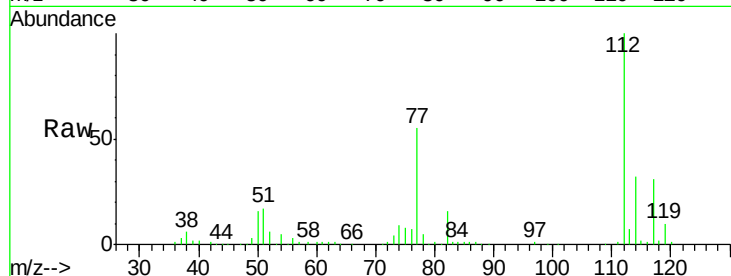
#65
Chlorobenzene
Concen: 19.141 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion:112 Resp: 326574
Ion Ratio Lower Upper
112 100
114 31.5 25.3 37.9

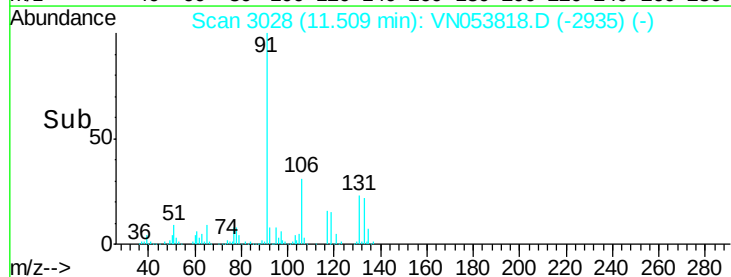
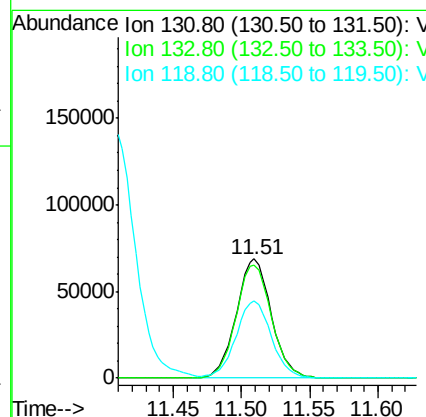
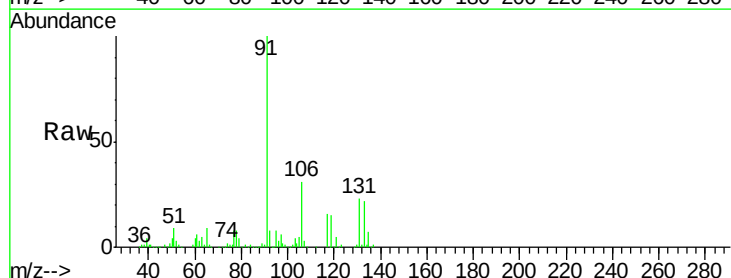
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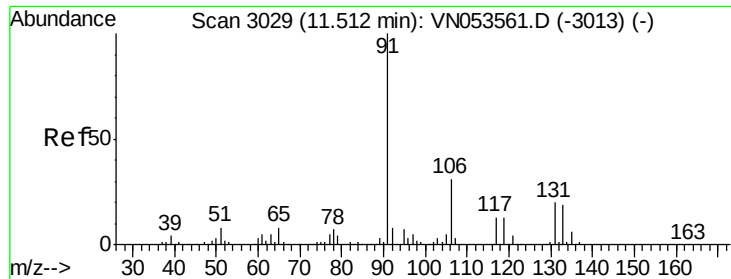
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.600 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion:131 Resp: 122751
Ion Ratio Lower Upper
131 100
133 96.3 48.0 144.0
119 65.6 33.5 100.5





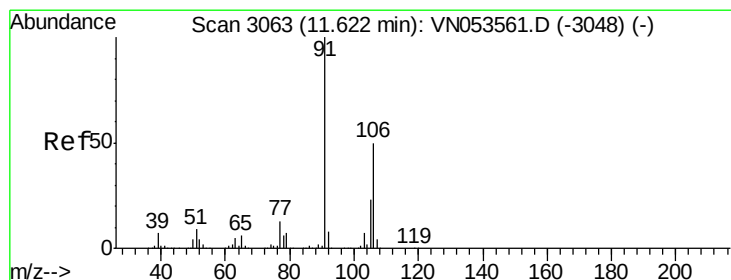
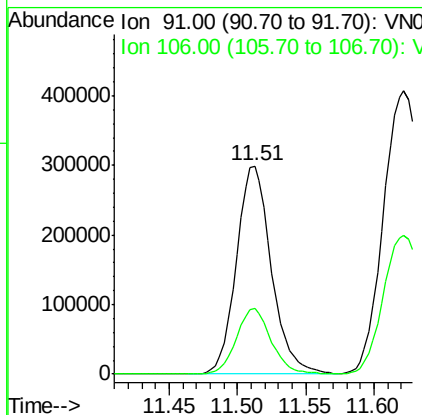
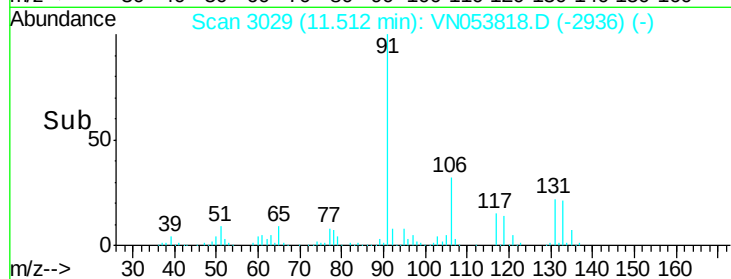
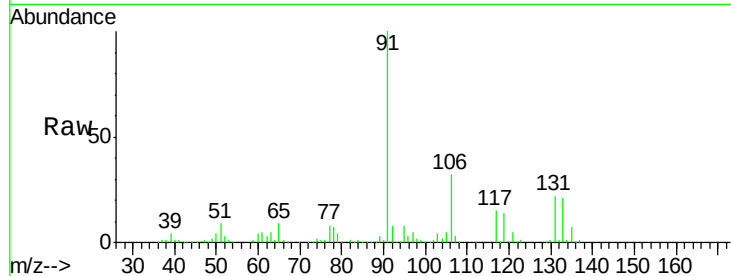
#67
Ethyl Benzene
Concen: 18.974 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion: 91 Resp: 531789
Ion Ratio Lower Upper
91 100
106 31.5 25.0 37.6

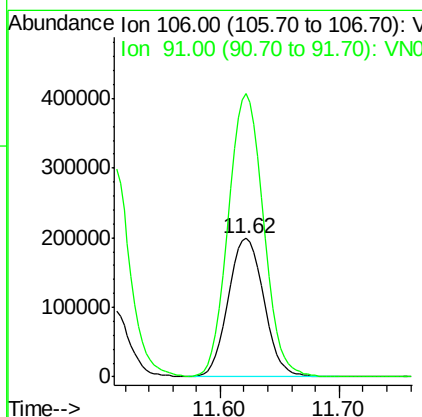
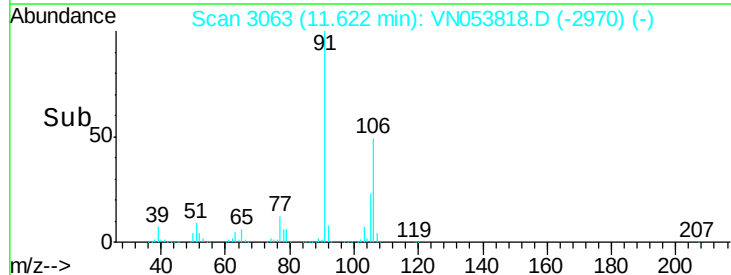
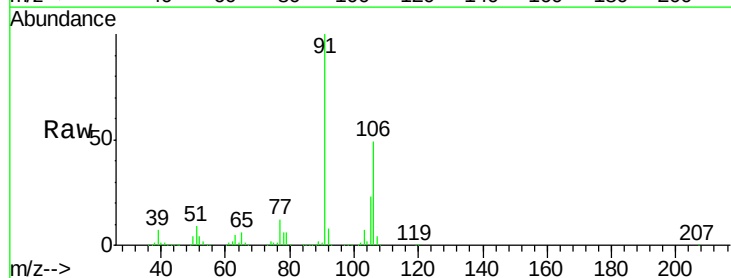
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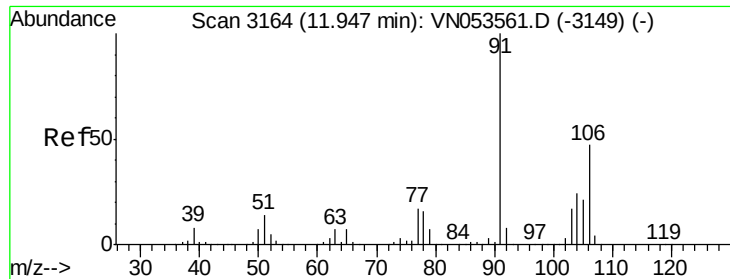
MMDadoda
2/18/2019 9:48:35 AM



#68
m/p-Xylenes
Concen: 38.749 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion: 106 Resp: 414501
Ion Ratio Lower Upper
106 100
91 201.2 161.4 242.2





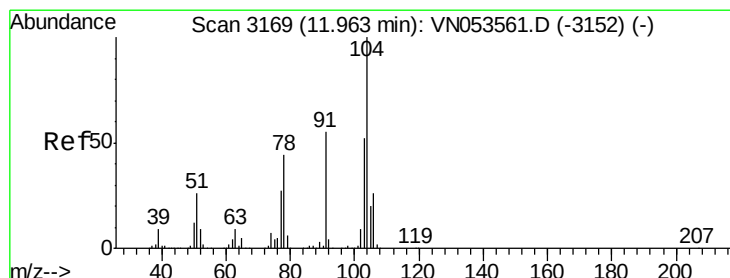
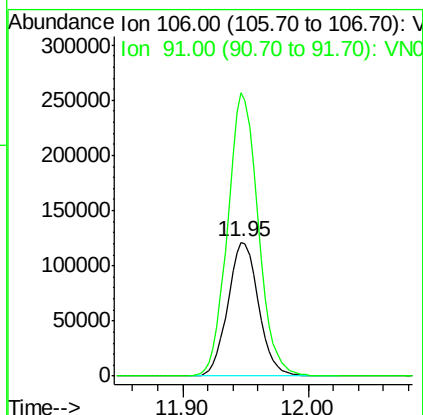
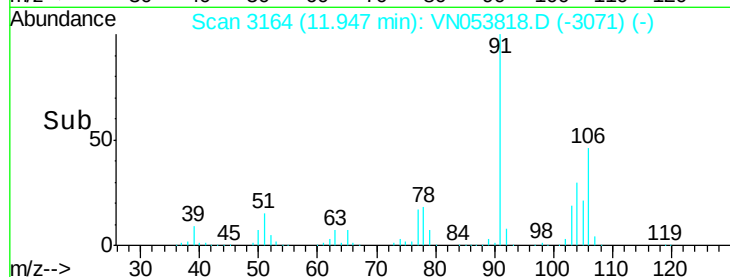
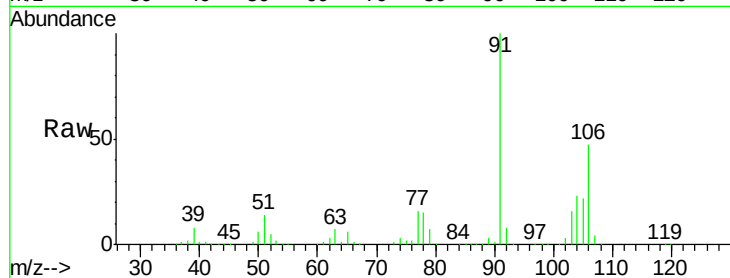
#69
o-Xylene
Concen: 19.939 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.5	106.9	320.8

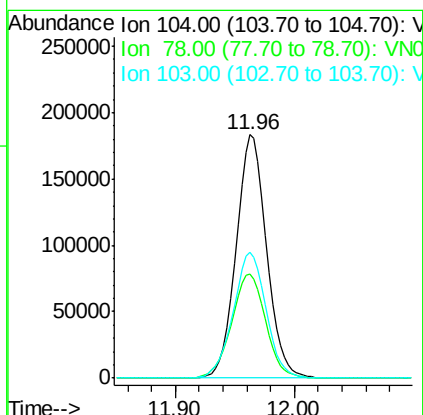
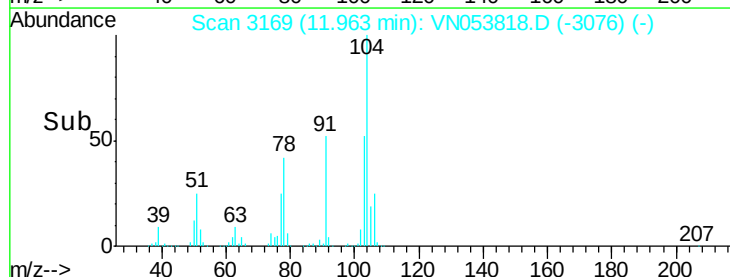
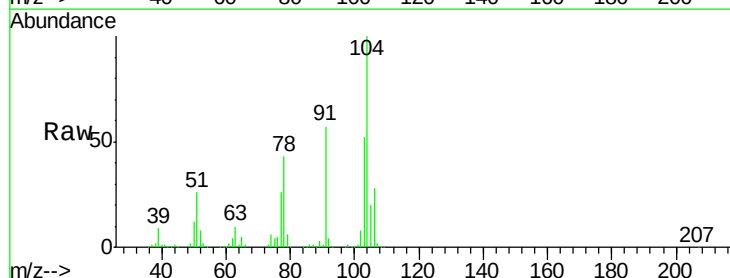
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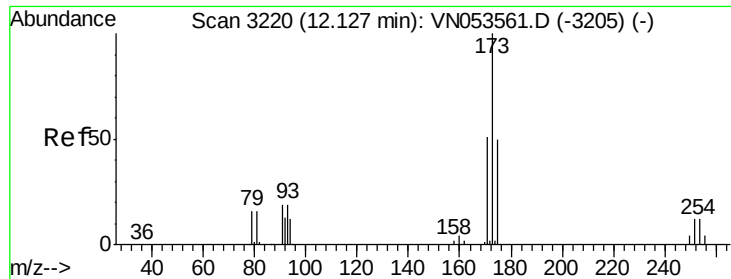
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2/18/2019 9:48:35 AM



#70
Styrene
Concen: 19.370 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.8	38.2	57.2
103	56.0	44.4	66.6





#71

Bromoform

Concen: 21.145 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

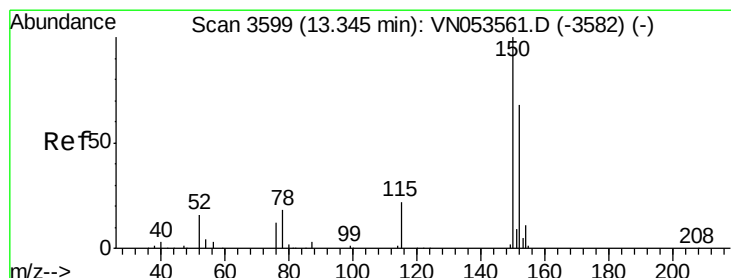
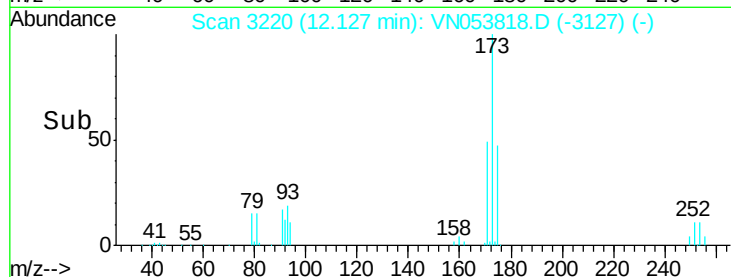
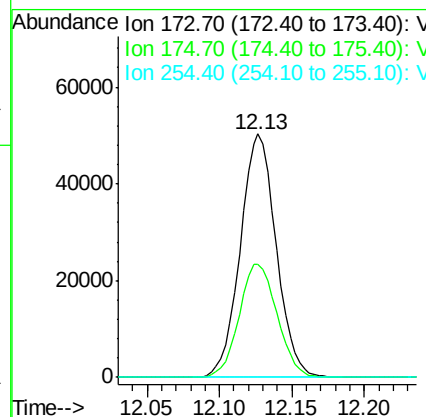
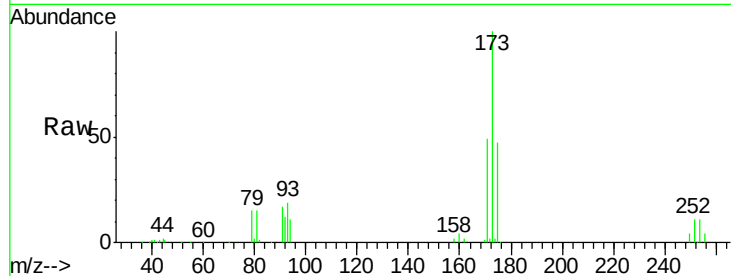
ClientSampleId :

VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	74.0
254	0.0	0.2	0.2

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

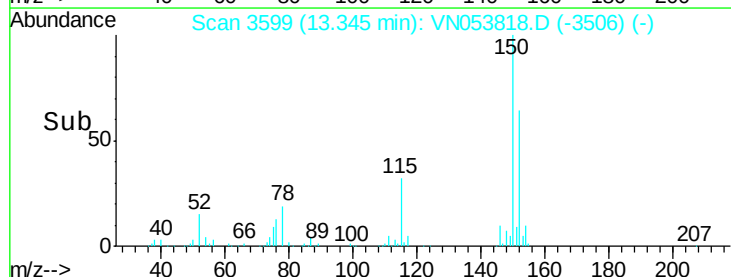
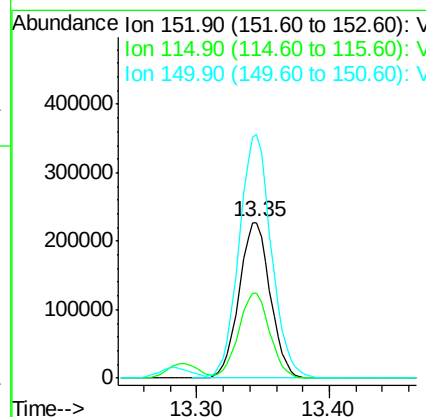
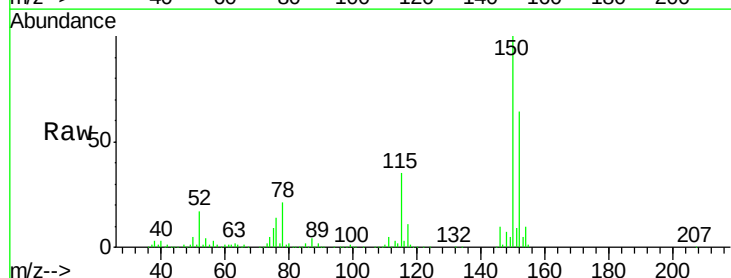
RT: 13.35 min Scan# 3599

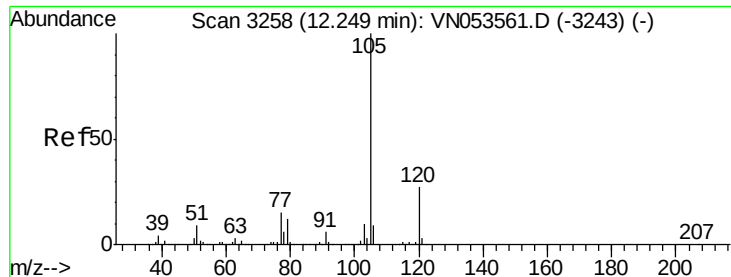
Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.8	83.4
150	162.4	0.0	349.0





#73

Isopropylbenzene

Concen: 20.835 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 105 Resp: 542749

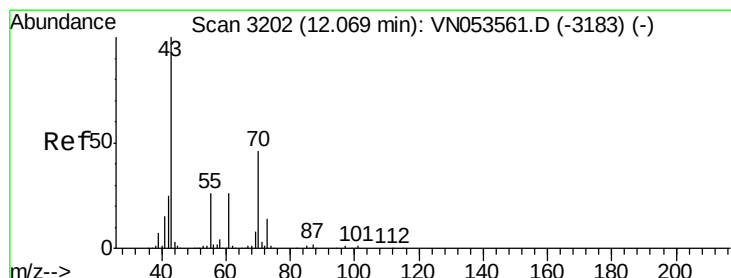
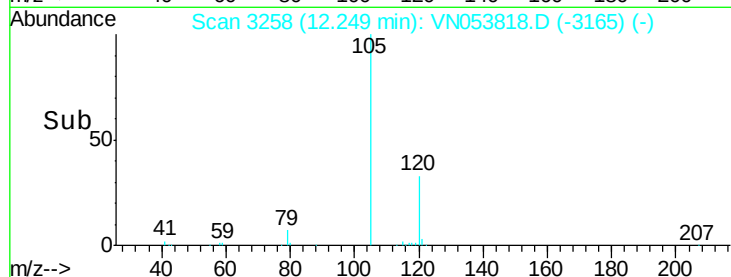
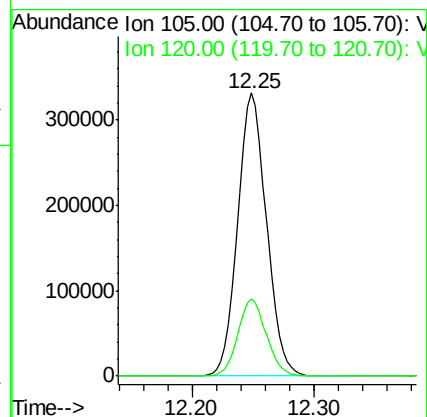
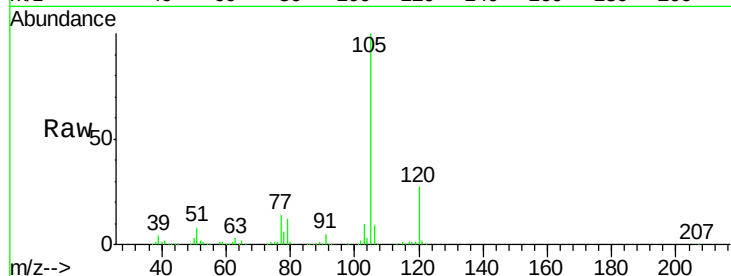
Ion Ratio Lower Upper

105 100

120 27.0 13.6 40.7

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2/18/2019 9:48:35 AM



#74

N-ethyl acetate

Concen: 19.906 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Tgt Ion: 43 Resp: 124692

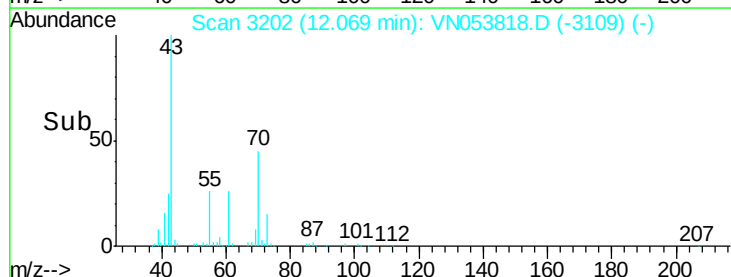
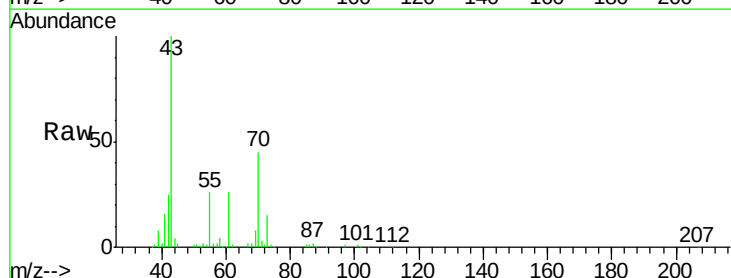
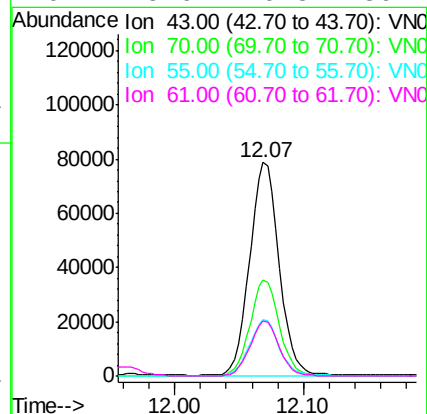
Ion Ratio Lower Upper

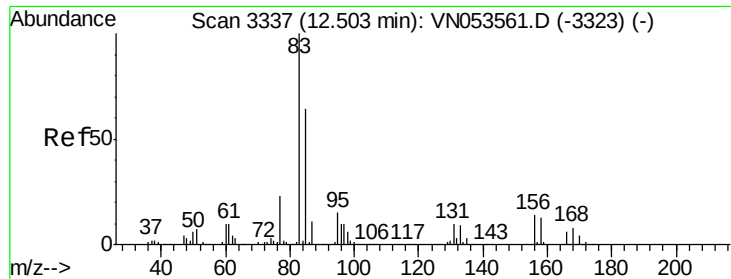
43 100

70 45.2 35.4 53.2

55 26.6 20.9 31.3

61 25.6 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.314 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

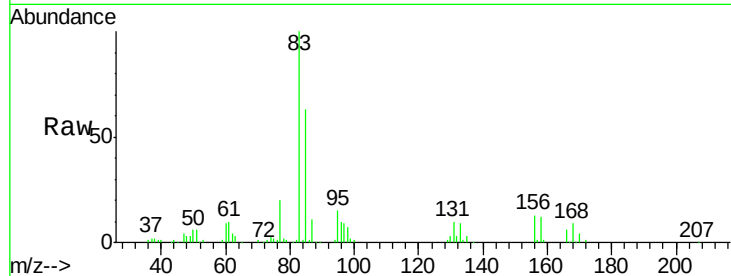
ClientSampleId :

VN0215WBSD02

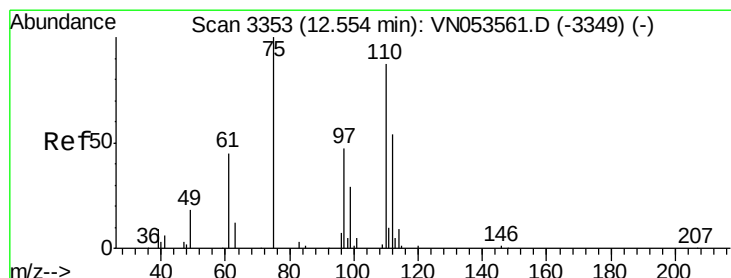
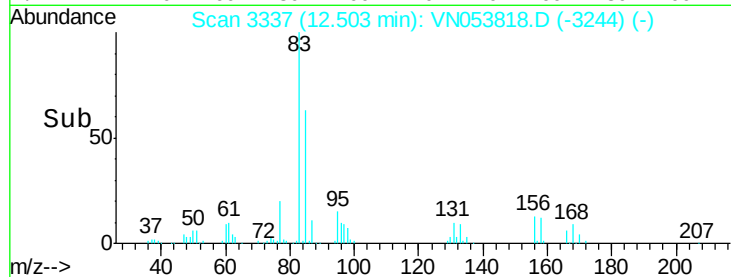
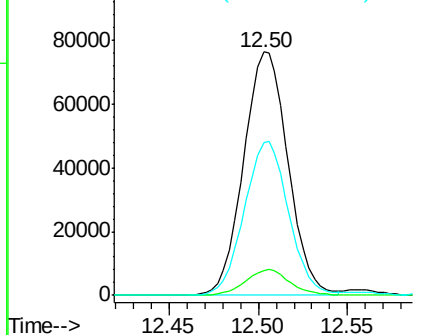
Tot Ion:	83	Resp:	132880
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.8
85	63.4	32.1	96.3

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053818.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 24.226 ug/l m

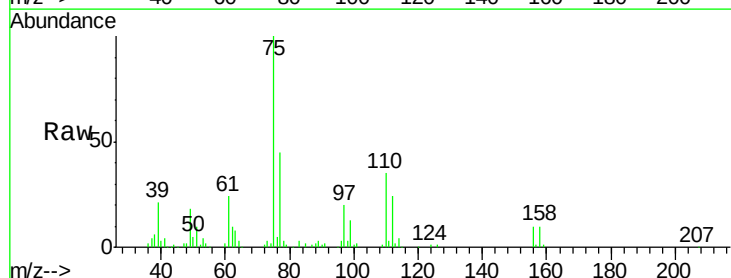
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

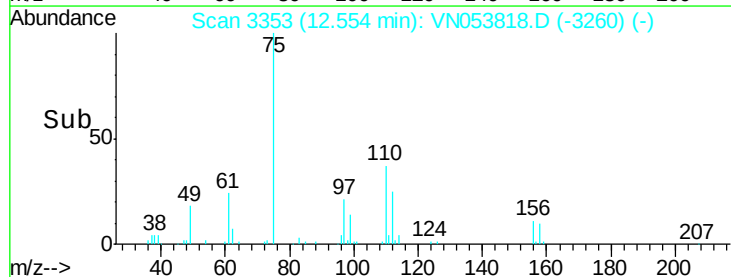
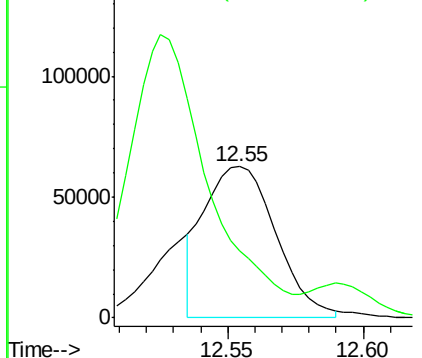
Lab File: VN053818.D

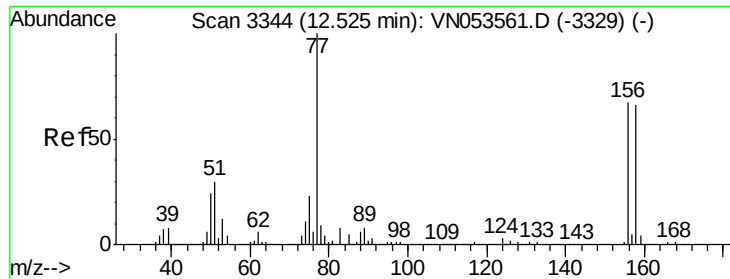
Acq: 16 Feb 2019 00:13

Tgt Ion:	75	Resp:	115306
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053818.D (-3260) (-)





#77

Bromobenzene

Concen: 20.403 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

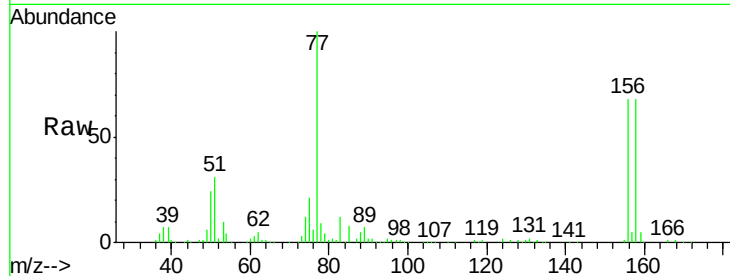
ClientSampleId :

VN0215WBSD02

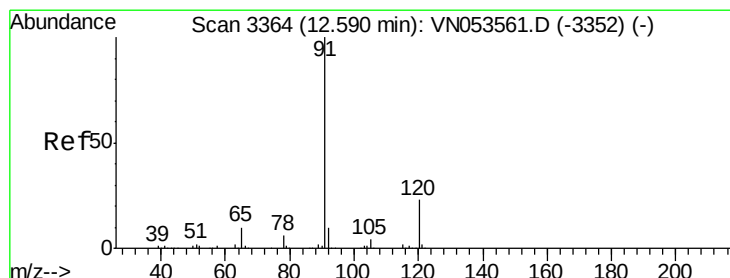
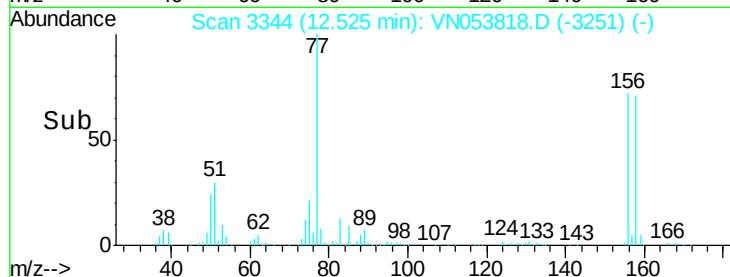
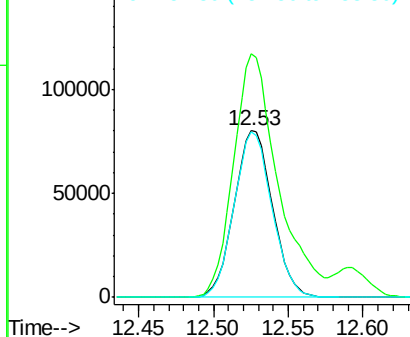
Tot Ion:	156	Resp:	143240
Ion Ratio	Lower	Upper	
156	100		
77	170.0	87.9	263.8
158	98.0	48.8	146.4

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



#78

n-propylbenzene

Concen: 20.102 ug/l

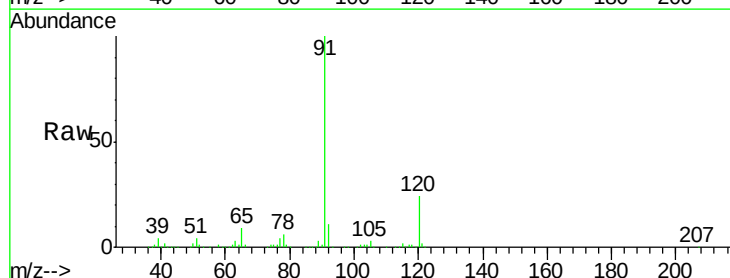
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

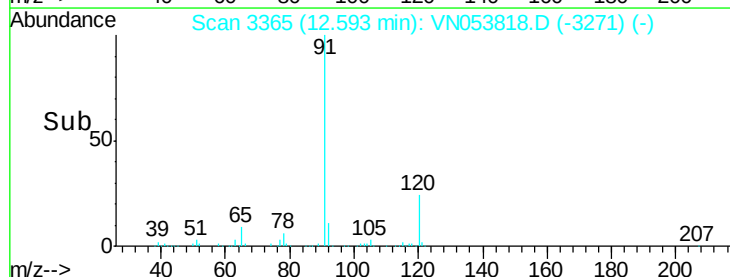
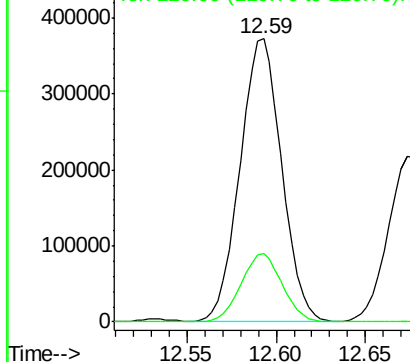
Lab File: VN053818.D

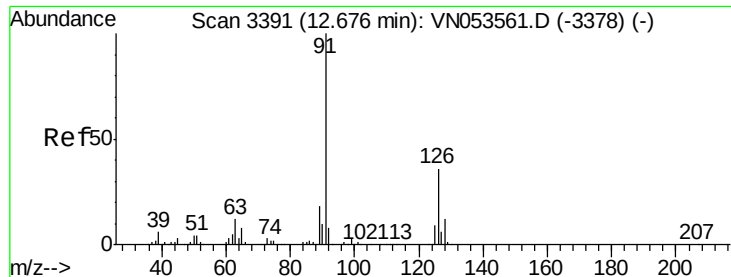
Acq: 16 Feb 2019 00:13

Tgt Ion:	91	Resp:	605363
Ion Ratio	Lower	Upper	
91	100		
120	23.9	11.9	35.5



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





#79

2-Chlorotoluene

Concen: 20.529 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion: 91 Resp: 366771

Ion Ratio Lower Upper

91 100

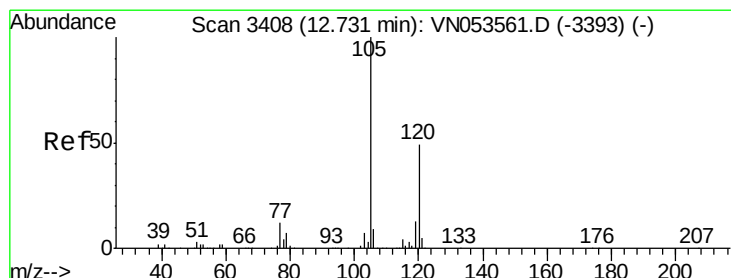
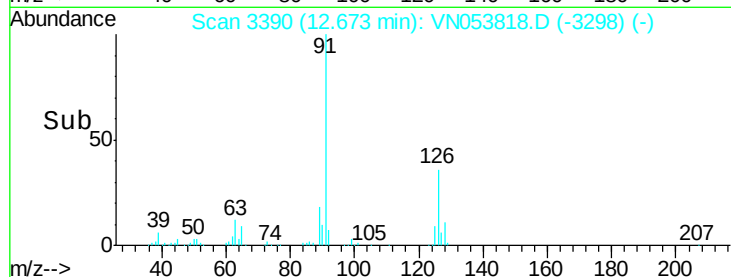
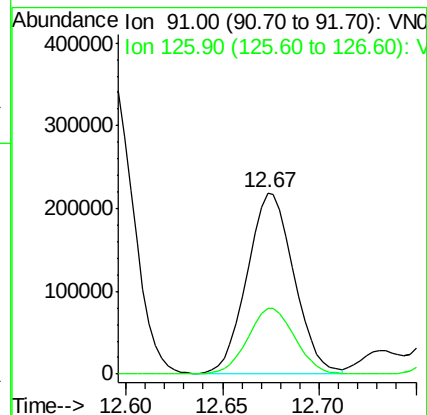
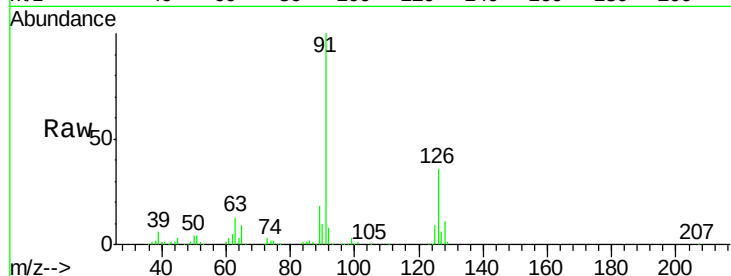
126 36.8 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.852 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053818.D

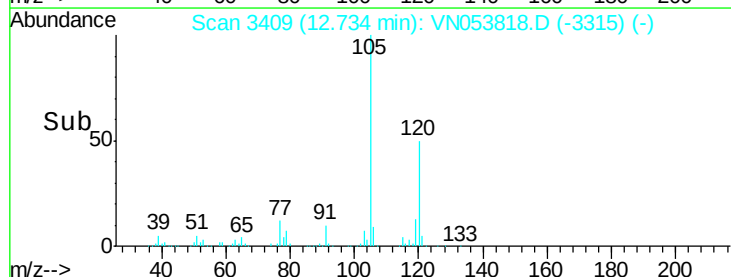
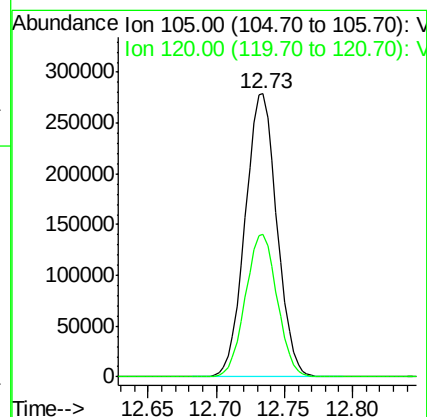
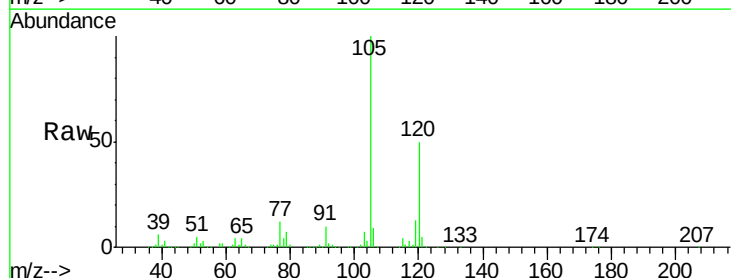
Acq: 16 Feb 2019 00:13

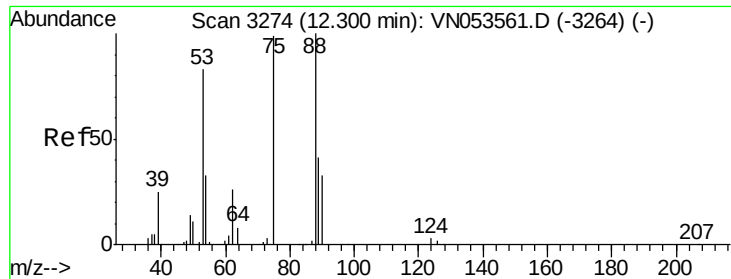
Tgt Ion: 105 Resp: 450439

Ion Ratio Lower Upper

105 100

120 50.4 24.9 74.6





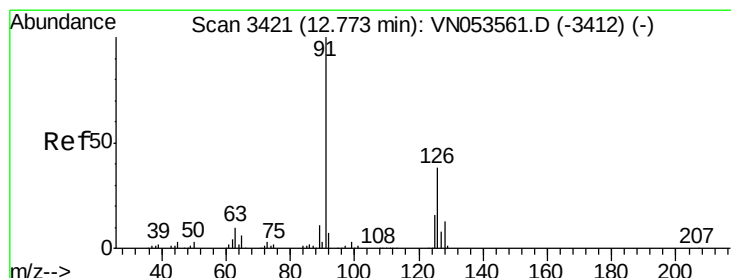
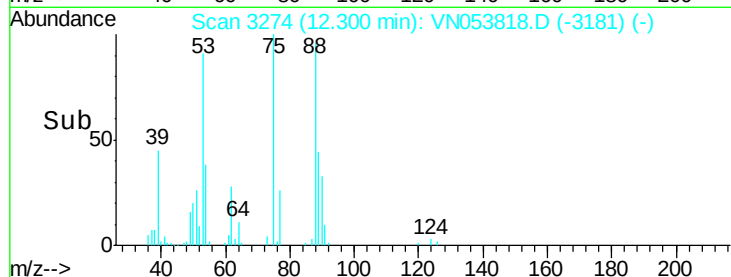
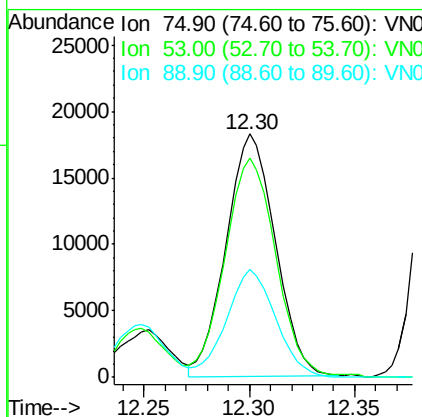
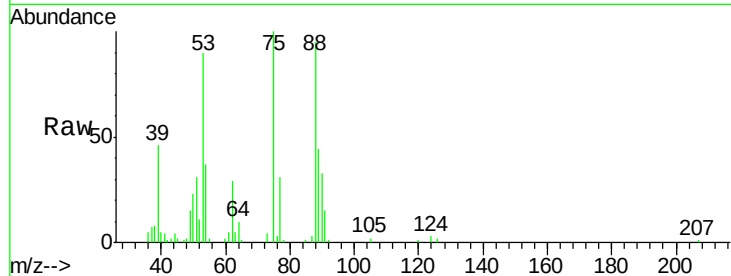
#81
trans-1,4-Dichloro-2-butene
Concen: 17.358 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.5	69.8	104.6
89	44.9	35.6	53.4

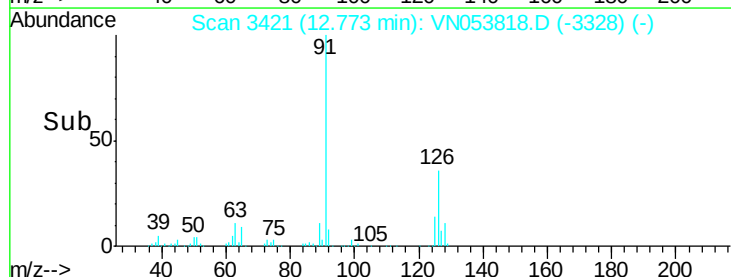
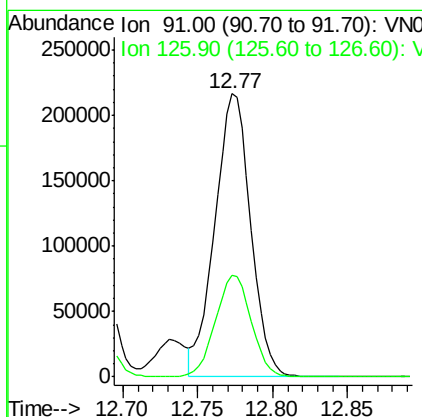
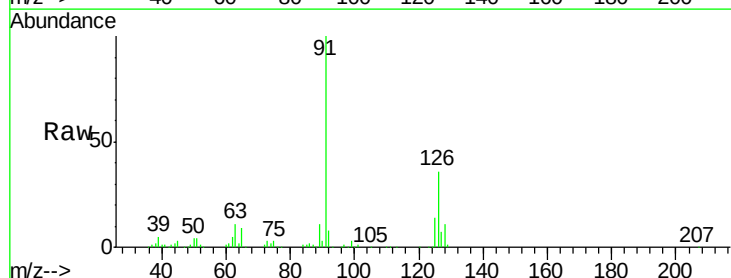
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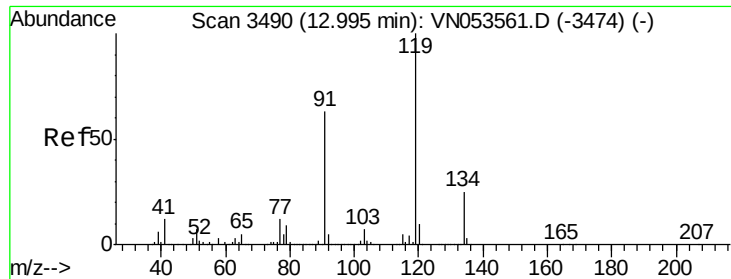
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2/18/2019 9:48:35 AM



#82
4-Chlorotoluene
Concen: 19.665 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.6	52.9





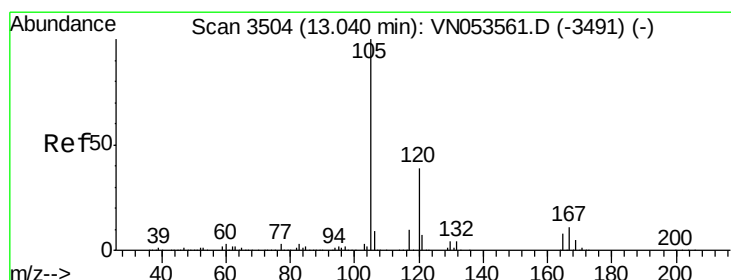
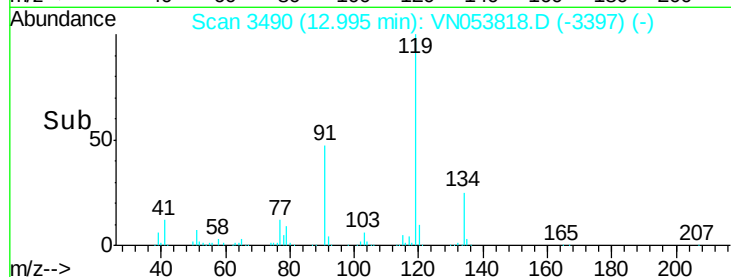
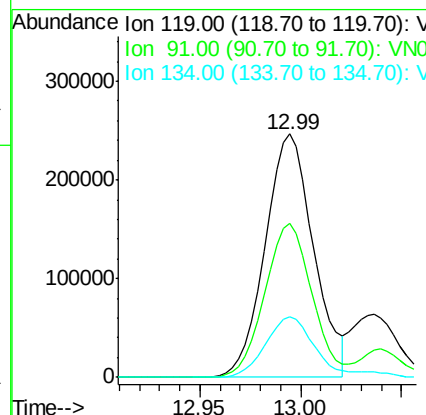
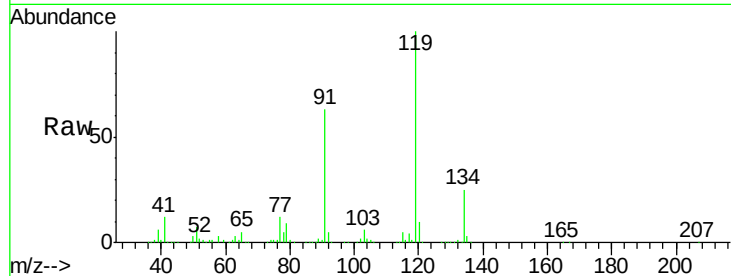
#83
 tert-Butylbenzene
 Concen: 21.581 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.7	31.3	93.8
134	24.6	12.9	38.7

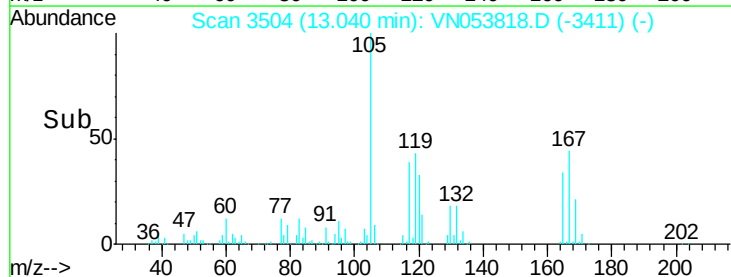
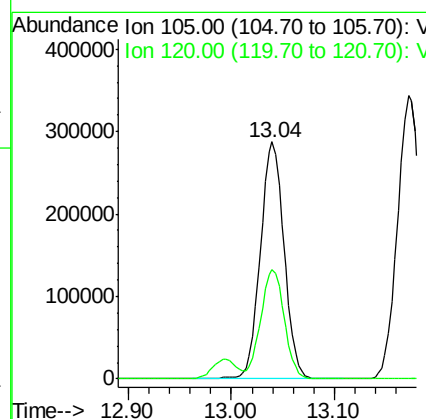
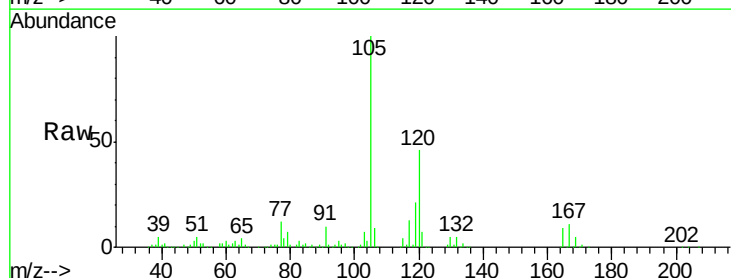
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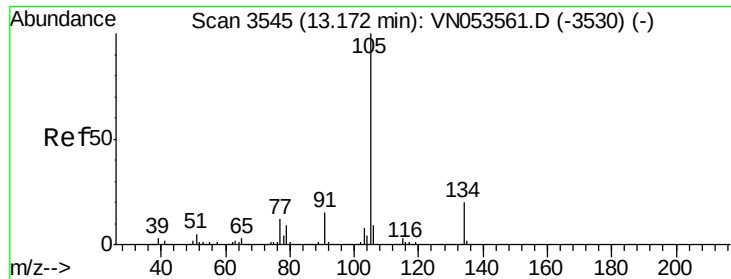
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.759 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0





#85

sec-Butylbenzene

Concen: 20.946 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

Instrument :

MSVOA_N

ClientSampleId :

VN0215WBSD02

Tot Ion:105 Resp: 544194

Ion Ratio Lower Upper

105 100

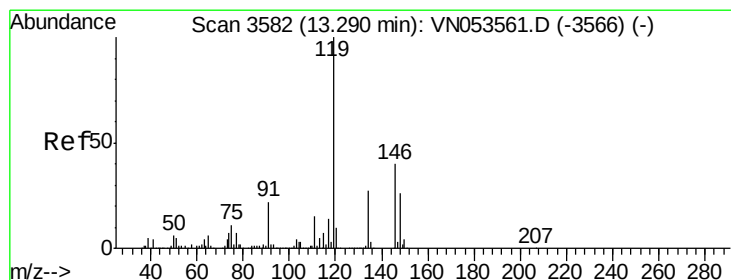
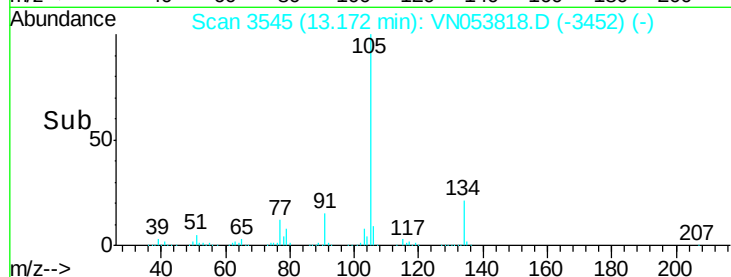
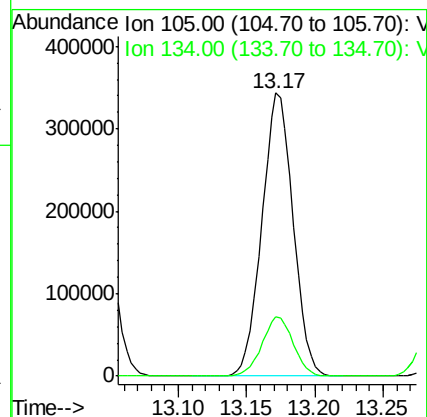
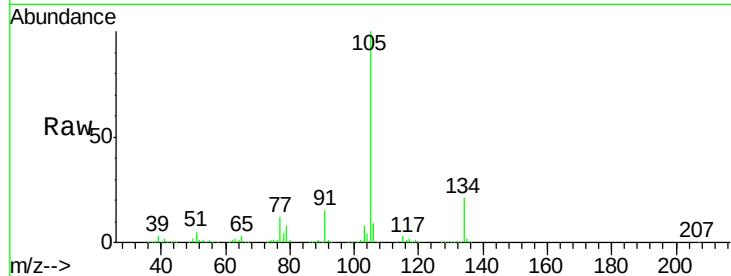
134 20.9 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 20.585 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053818.D

Acq: 16 Feb 2019 00:13

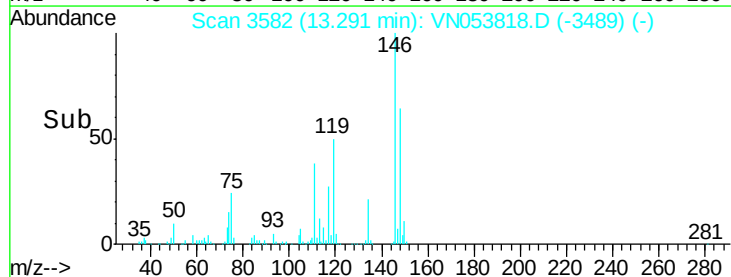
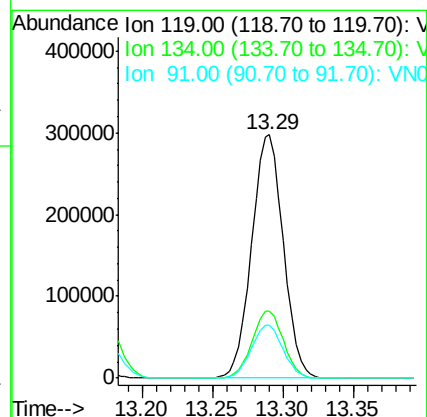
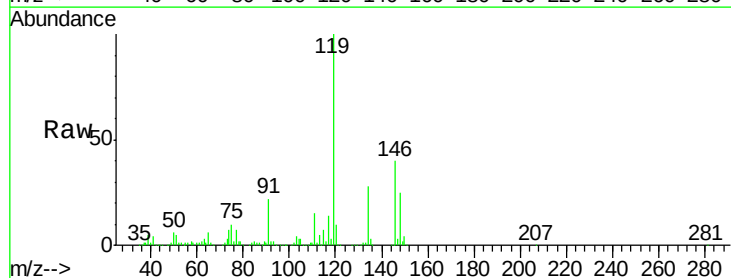
Tgt Ion:119 Resp: 467730

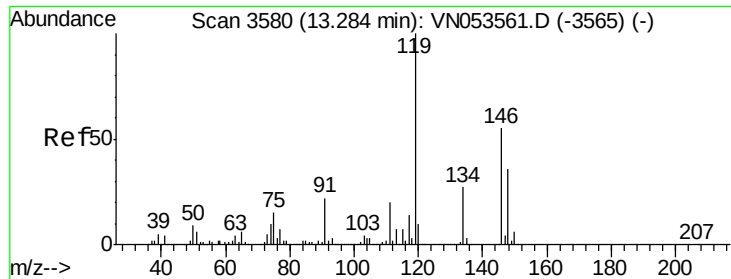
Ion Ratio Lower Upper

119 100

134 27.4 13.5 40.4

91 21.7 11.0 33.0





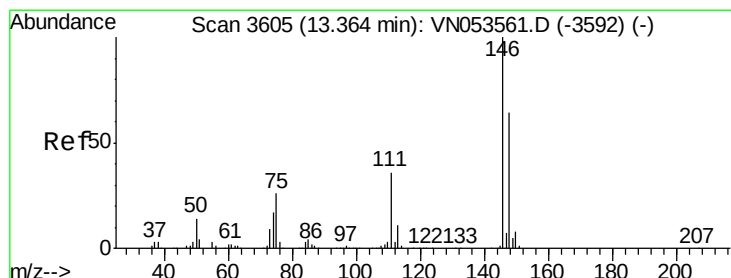
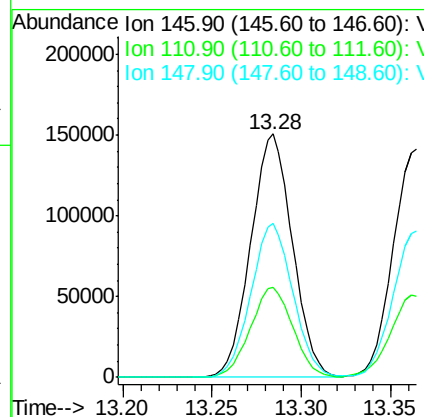
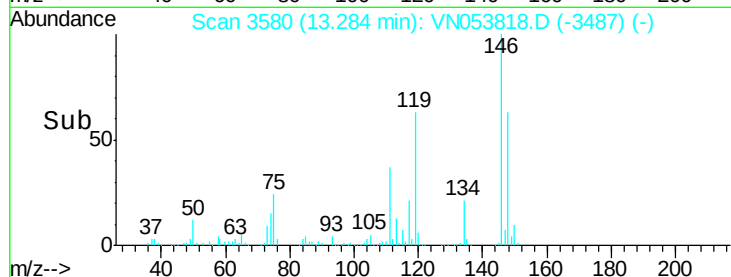
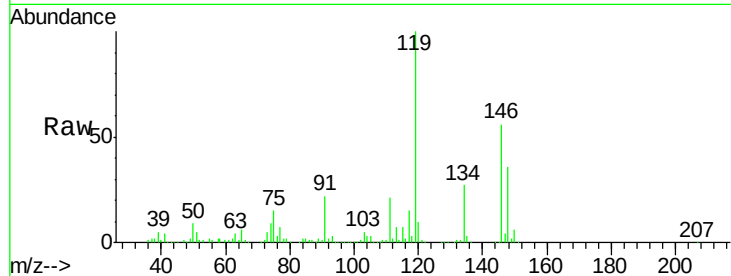
#87
 1,3-Dichlorobenzene
 Concen: 19.513 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	246272		
111	37.6	18.8	56.3	
148	63.7	32.0	96.2	

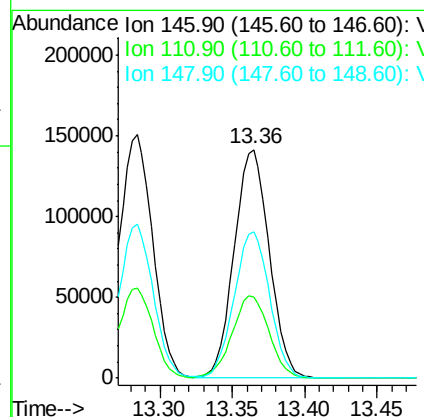
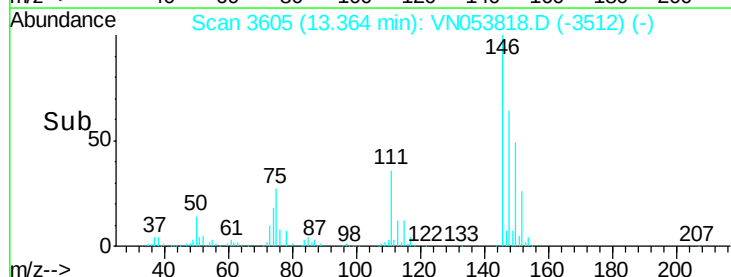
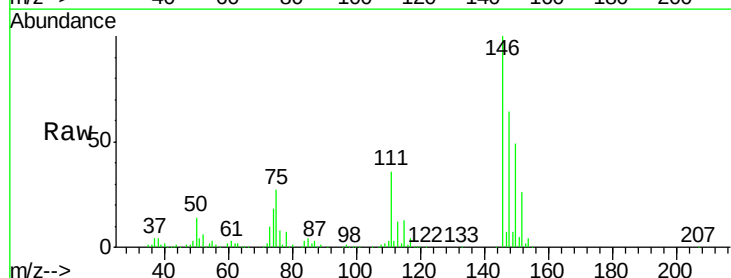
Manual Integrations
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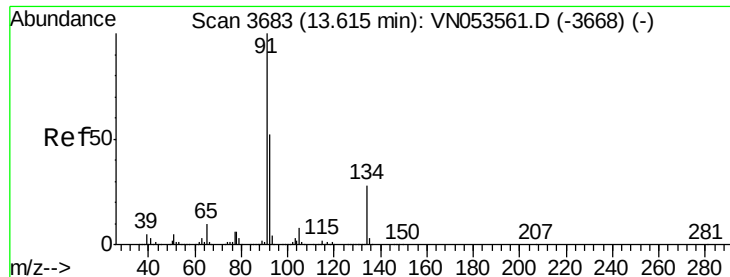
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#88
 1,4-Dichlorobenzene
 Concen: 19.039 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	237686		
111	37.9	18.6	55.8	
148	64.7	32.4	97.0	





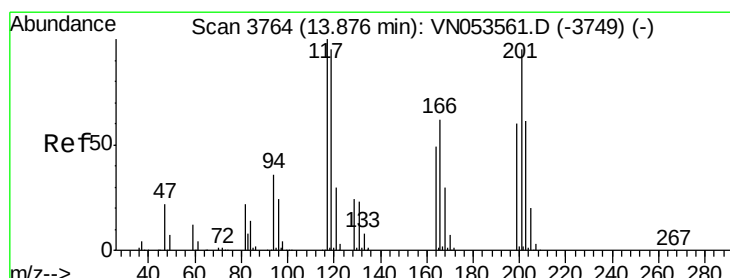
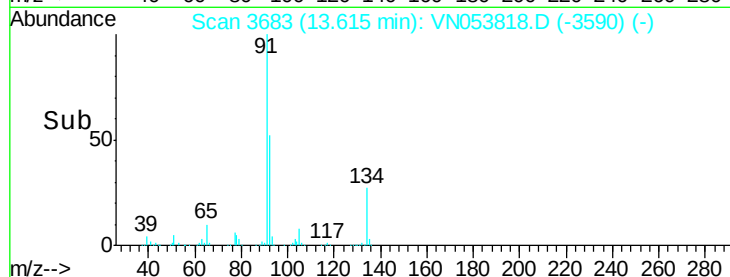
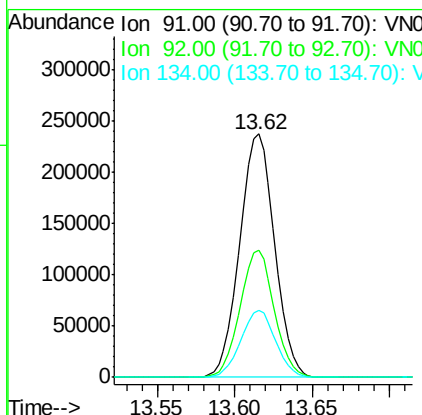
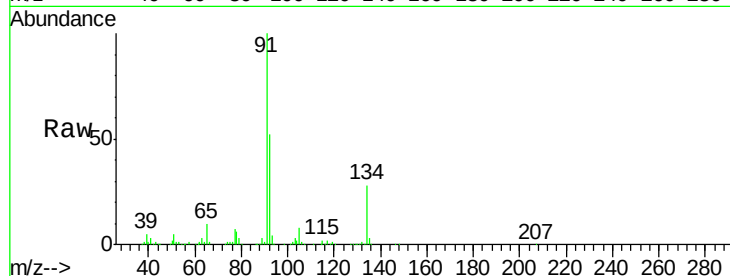
#89
n-Butylbenzene
Concen: 18.943 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.3	78.8
134	27.3	13.5	40.5

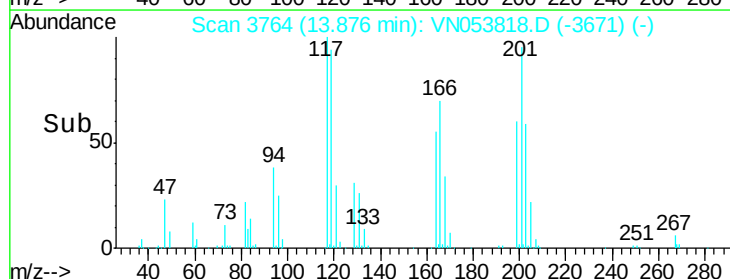
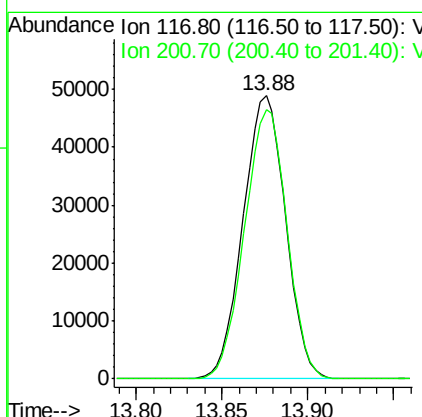
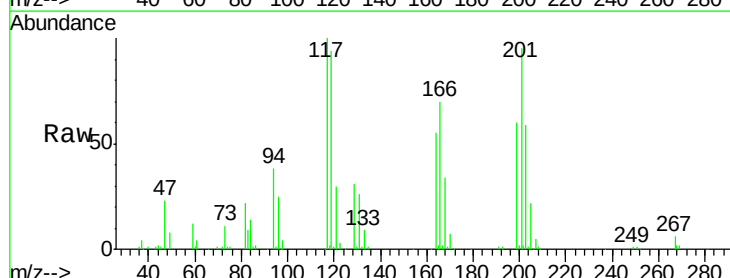
Manual Integrations
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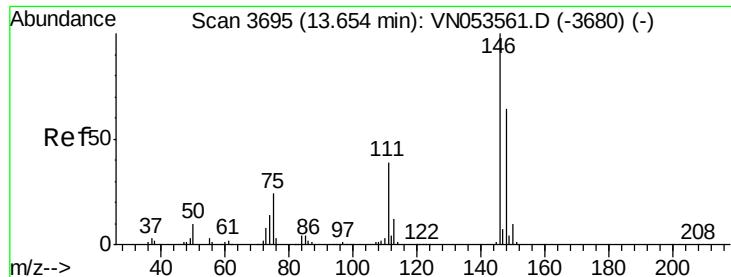
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#90
Hexachloroethane
Concen: 22.392 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.8	46.8	140.4





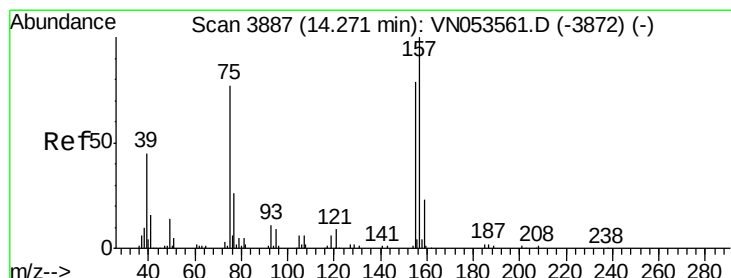
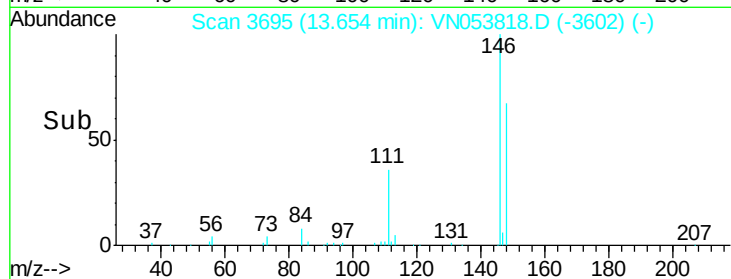
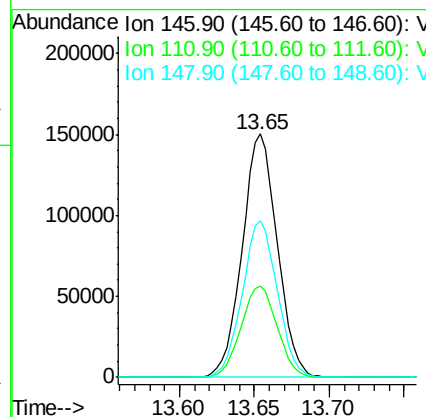
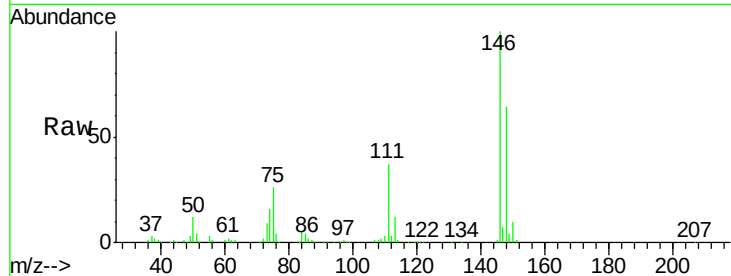
#91
 1,2-Dichlorobenzene
 Concen: 20.304 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.5	58.5
148	64.1	31.9	95.9

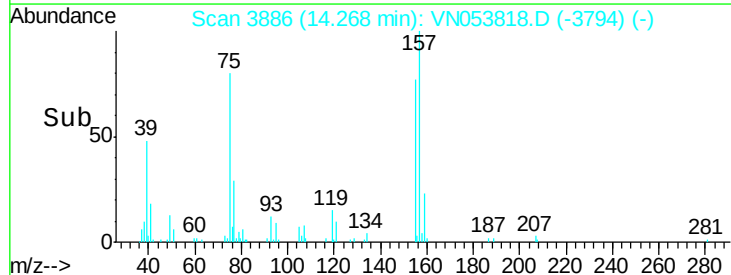
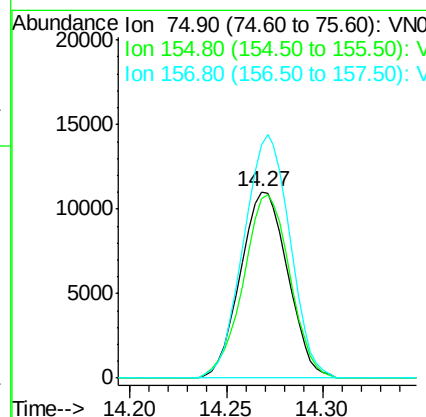
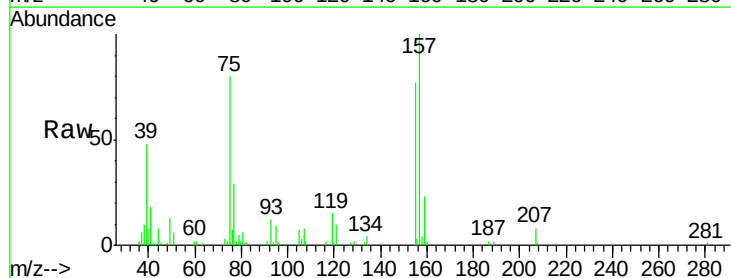
Manual Integrations
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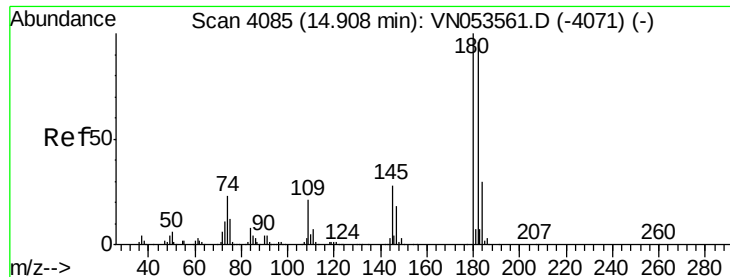
MMDadoda
 2/18/2019 9:48:35 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.165 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.8	48.9	146.7
157	127.7	63.7	191.3





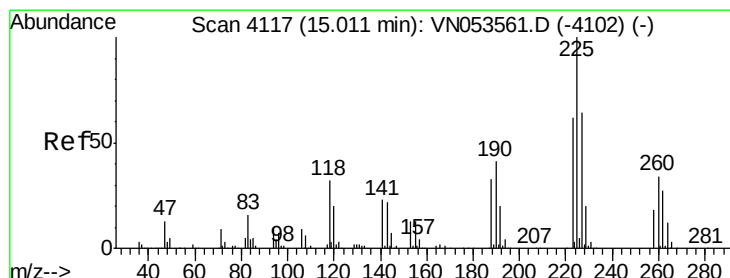
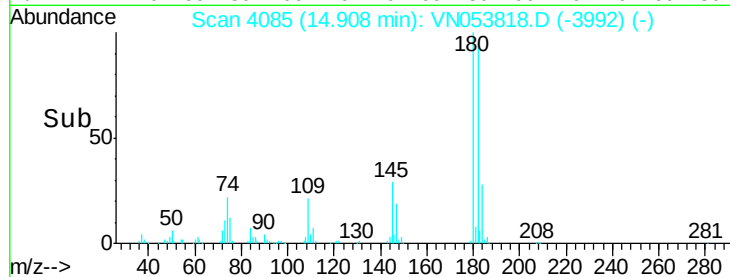
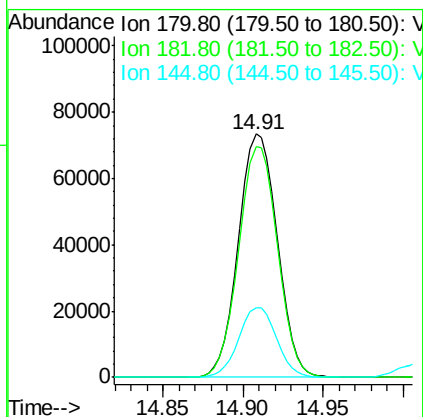
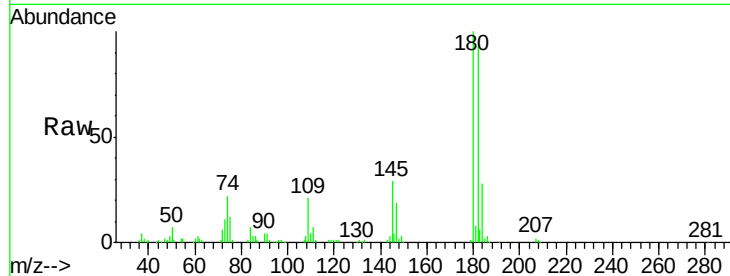
#93
 1,2,4-Trichlorobenzene
 Concen: 17.592 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	121908		
182	94.6	48.1	144.3	
145	27.9	13.9	41.6	

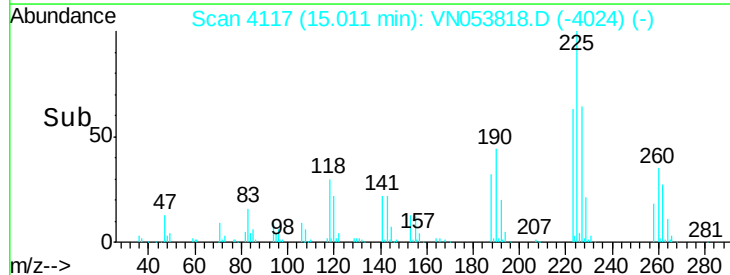
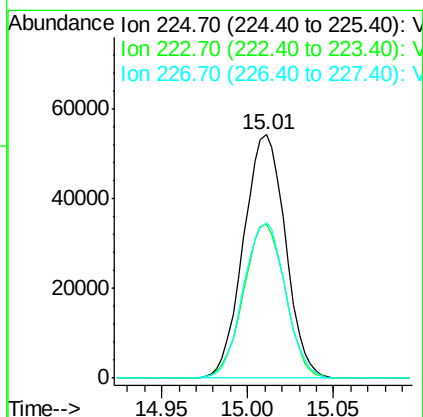
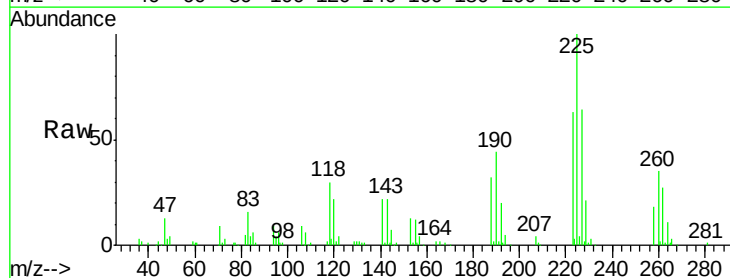
Manual Integrations
 APPROVED

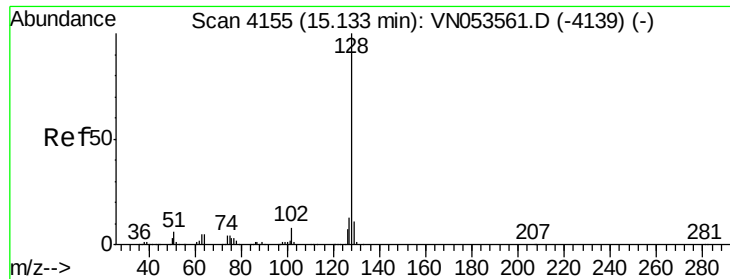
MMDadoda
 2/18/2019 9:48:35 AM



#94
 Hexachlorobutadiene
 Concen: 21.226 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053818.D
 Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91602		
223	62.9	31.1	93.2	
227	64.2	32.0	96.2	





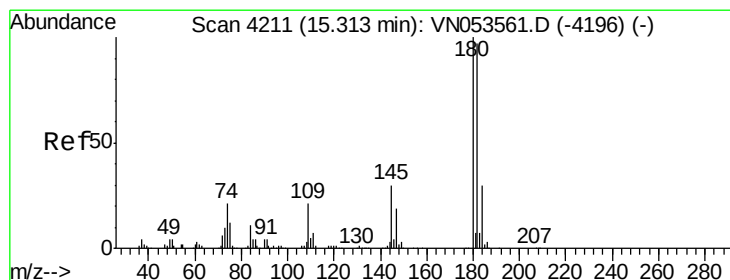
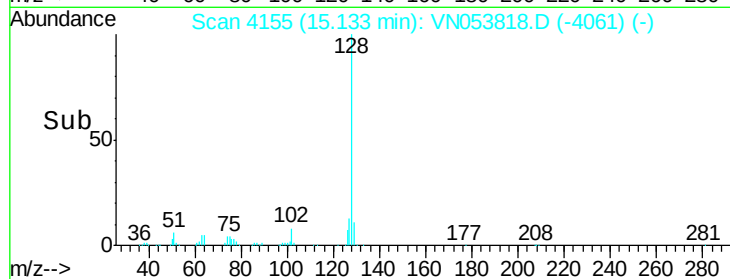
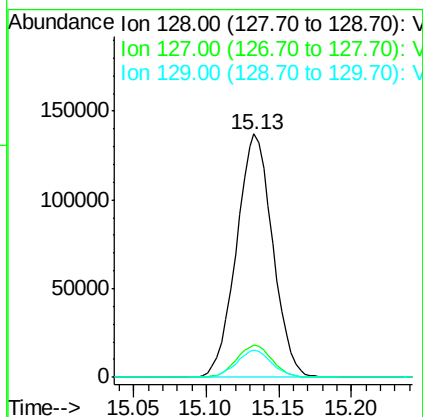
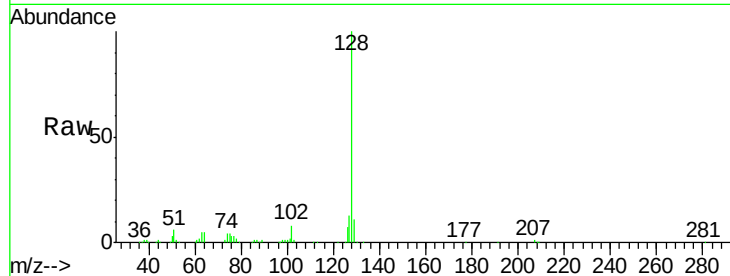
#95
Naphthalene
Concen: 15.820 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Instrument :
MSVOA_N
ClientSampleId :
VN0215WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	237497		
127	13.1	10.3	15.5	
129	10.8	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
2/18/2019 9:48:35 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.120 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053818.D
Acq: 16 Feb 2019 00:13

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	122939		
182	94.9	47.9	143.8	
145	29.3	14.7	44.1	

