

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110718\
 Data File : VN052206.D
 Acq On : 7 Nov 2018 14:45
 Operator : MD\SY
 Sample : VN1107WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Manual Integrations
 APPROVED

MMDadoda
 11/8/2018 9:14:03 AM

Quant Time: Nov 07 15:10:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	352752	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	616228	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	551188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	246265	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	217776	52.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.14%	
35) Dibromofluoromethane	7.59	113	195136	51.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.00%	
50) Toluene-d8	10.09	98	741468	50.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	243807	50.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.42%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	62565	20.340	ug/l	100
3) Chloromethane	2.06	50	83551	20.124	ug/l	96
4) Vinyl Chloride	2.19	62	81250	20.433	ug/l	99
5) Bromomethane	2.58	94	59531	20.025	ug/l	97
6) Chloroethane	2.71	64	50842	19.996	ug/l	99
7) Trichlorofluoromethane	3.02	101	115486	19.993	ug/l	97
8) Diethyl Ether	3.41	74	39140	19.395	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	71461	20.703	ug/l	99
10) Methyl Iodide	3.96	142	95546	19.606	ug/l	98
11) Tert butyl alcohol	4.77	59	21811	119.948	ug/l #	79
12) 1,1-Dichloroethene	3.74	96	64092	19.723	ug/l	92
13) Acrolein	3.61	56	13916	98.346	ug/l	94
14) Allyl chloride	4.33	41	104497	19.267	ug/l	94
15) Acrylonitrile	4.99	53	122640	103.022	ug/l	97
16) Acetone	3.81	43	86657	91.441	ug/l	100
17) Carbon Disulfide	4.06	76	177536	19.145	ug/l	98
18) Methyl Acetate	4.33	43	61477	20.414	ug/l	93
19) Methyl tert-butyl Ether	5.05	73	182026	20.353	ug/l	97
20) Methylene Chloride	4.56	84	77653	19.720	ug/l	93
21) trans-1,2-Dichloroethene	5.05	96	73086	20.286	ug/l	94
22) Diisopropyl ether	5.95	45	253150	21.277	ug/l	99
23) Vinyl Acetate	5.90	43	830635	105.618	ug/l	100
24) 1,1-Dichloroethane	5.86	63	140267	20.750	ug/l	98
25) 2-Butanone	6.83	43	144444	98.294	ug/l	99
26) 2,2-Dichloropropane	6.82	77	97056	18.346	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	82750	20.185	ug/l	98
28) Bromochloromethane	7.20	49	73955	23.124	ug/l	96
29) Tetrahydrofuran	7.21	42	94412	103.838	ug/l	99
30) Chloroform	7.37	83	144175	21.404	ug/l	100
31) Cyclohexane	7.66	56	133212	20.128	ug/l #	94
32) 1,1,1-Trichloroethane	7.57	97	122591	20.659	ug/l	98
36) 1,1-Dichloropropene	7.79	75	108971	19.990	ug/l	99
37) Ethyl Acetate	6.93	43	65435	19.447	ug/l #	93
38) Carbon Tetrachloride	7.77	117	104555	19.184	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	129459	20.052	ug/l	99
40) Benzene	8.04	78	322738	20.139	ug/l	99
41) Methacrylonitrile	7.17	41	34881	19.402	ug/l	95
42) 1,2-Dichloroethane	8.12	62	101830	19.767	ug/l	99
43) Isopropyl Acetate	8.16	43	121342	19.508	ug/l	97
44) Trichloroethene	8.83	130	81715	19.260	ug/l	88
45) 1,2-Dichloropropane	9.12	63	88606	20.878	ug/l	95
46) Dibromomethane	9.21	93	53881	19.963	ug/l	97
47) Bromodichloromethane	9.40	83	104641	19.879	ug/l	92
48) Methyl methacrylate	9.20	41	60730	20.286	ug/l	97
49) 1,4-Dioxane	9.20	88	12616	487.903	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	338884	103.128	ug/l	100
52) Toluene	10.16	92	201619	20.864	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	100087	19.382	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	122347	20.247	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	69849	20.501	ug/l	95
56) Ethyl methacrylate	10.43	69	90370	20.349	ug/l	99
57) 1,3-Dichloropropane	10.71	76	122720	20.446	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	256441	107.296	ug/l	97
59) 2-Hexanone	10.75	43	222112	97.098	ug/l	99
60) Dibromochloromethane	10.90	129	74940	19.341	ug/l	100
61) 1,2-Dibromoethane	11.00	107	70037	20.250	ug/l	98
64) Tetrachloroethene	10.63	164	76134	21.321	ug/l	98
65) Chlorobenzene	11.43	112	225982	20.115	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	78803	20.887	ug/l	99
67) Ethyl Benzene	11.51	91	385825	20.677	ug/l	99
68) m/p-Xylenes	11.62	106	299254	41.563	ug/l	100
69) o-Xylene	11.95	106	144025	20.626	ug/l	100
70) Styrene	11.96	104	228194	20.644	ug/l	99
71) Bromoform	12.12	173	42792	18.854	ug/l #	99
73) Isopropylbenzene	12.25	105	386043	20.733	ug/l	99
74) N-amyl acetate	12.07	43	111807	20.235	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	85098	20.879	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	61728m	15.928	ug/l	
77) Bromobenzene	12.53	156	87951	19.808	ug/l	94
78) n-propylbenzene	12.59	91	439640	20.660	ug/l	98
79) 2-Chlorotoluene	12.67	91	250207	20.051	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	310176	20.580	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	19305	17.836	ug/l	92
82) 4-Chlorotoluene	12.77	91	258558	20.615	ug/l	99
83) tert-Butylbenzene	12.99	119	275766	20.721	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	314418	20.957	ug/l	98
85) sec-Butylbenzene	13.17	105	373098	20.733	ug/l	100
86) p-Isopropyltoluene	13.29	119	317276	20.947	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	156293	19.919	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	157284	20.054	ug/l	98
89) n-Butylbenzene	13.61	91	265689	20.258	ug/l	98
90) Hexachloroethane	13.87	117	51169	20.045	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	149447	20.295	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.26	75	10844	20.155	ug/l	87

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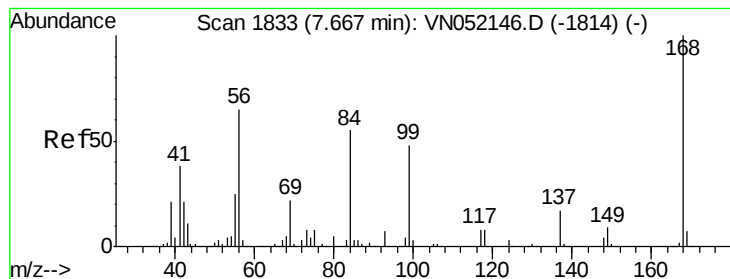
Manual Integrations
APPROVED

MMDadoda
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Quant Time: Nov 07 15:10:06 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 05 22:32:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	62114	19.322	ug/l	96
94) Hexachlorobutadiene	15.01	225	35399	20.253	ug/l	95
95) Naphthalene	15.13	128	136483	18.098	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	56717	20.038	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion:168 Resp: 352752

Ion Ratio Lower Upper

168 100

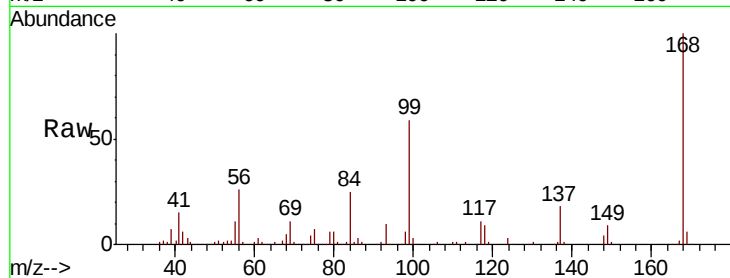
99 58.5 45.4 68.2

Manual Integrations

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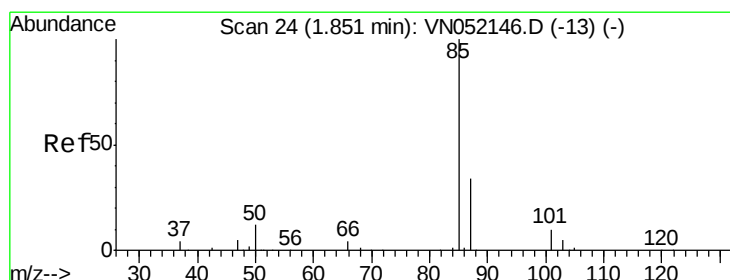
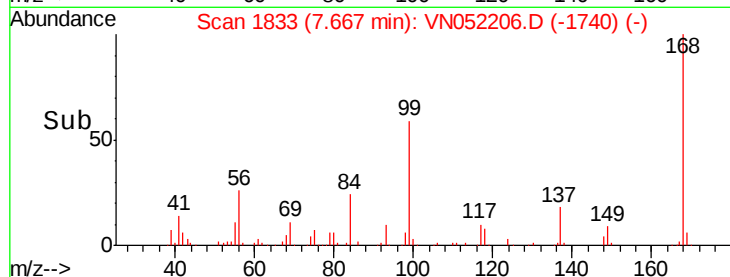
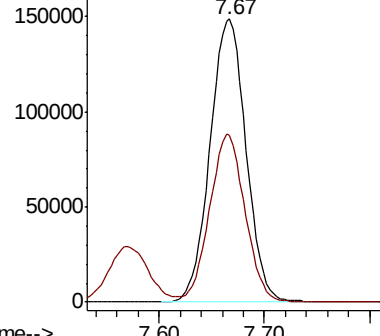
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 20.340 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052206.D

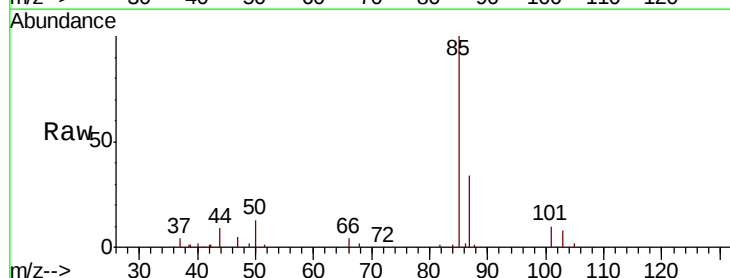
Acq: 7 Nov 2018 14:45

Tgt Ion: 85 Resp: 62565

Ion Ratio Lower Upper

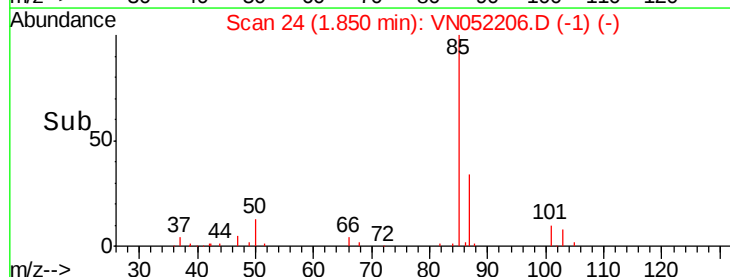
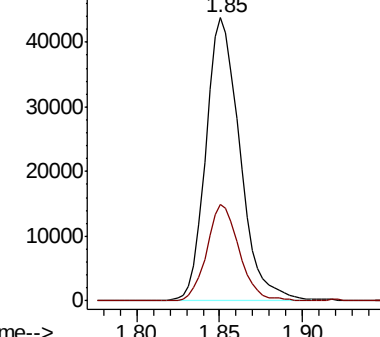
85 100

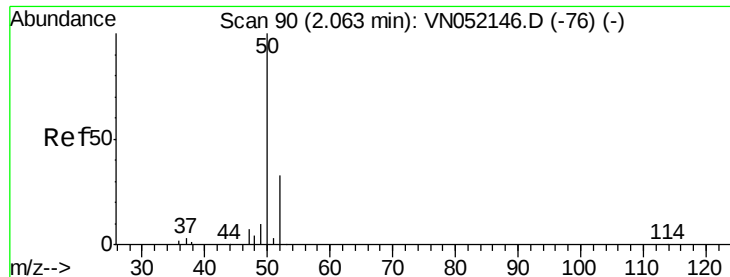
87 34.1 17.0 51.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 20.124 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 50 Resp: 83551

Ion Ratio Lower Upper

50 100

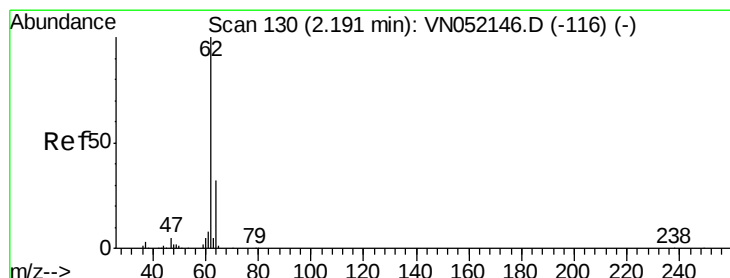
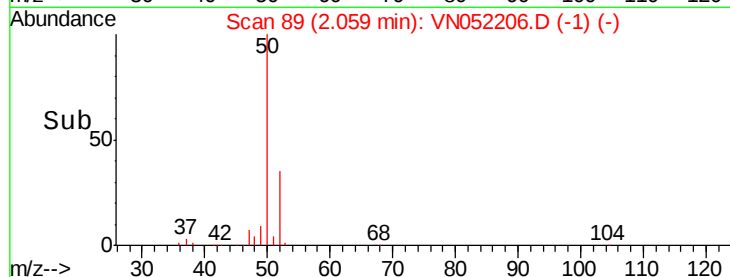
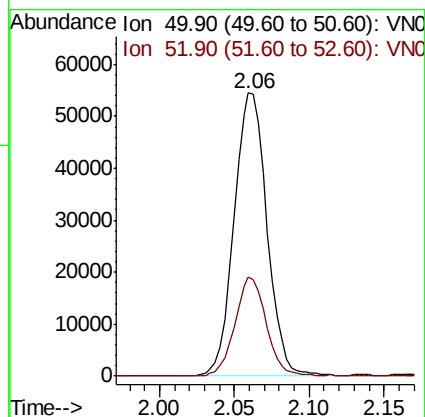
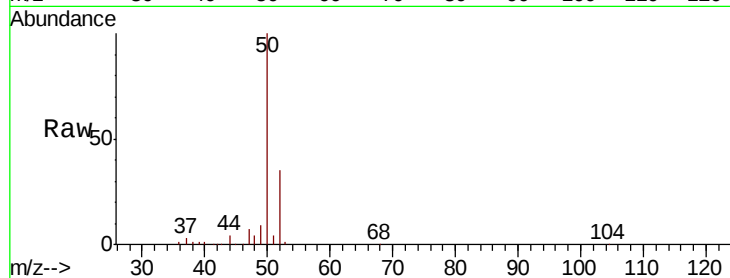
52 35.0 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.433 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052206.D

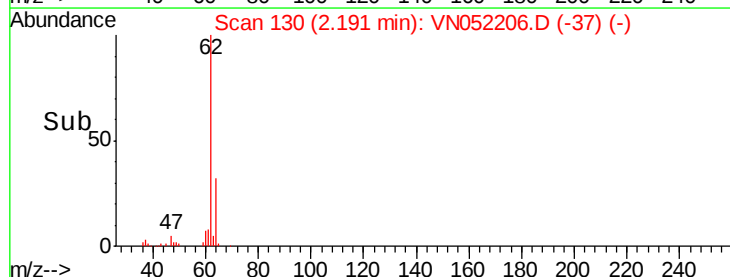
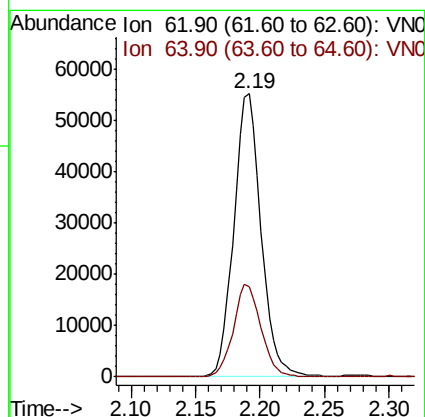
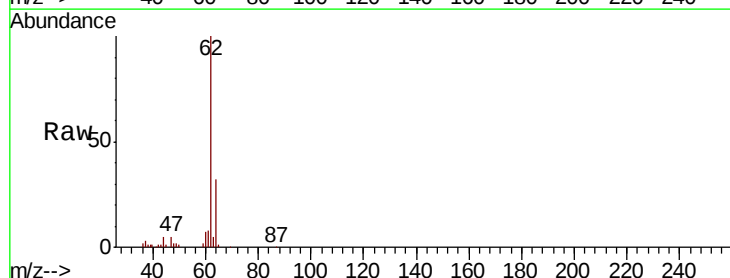
Acq: 7 Nov 2018 14:45

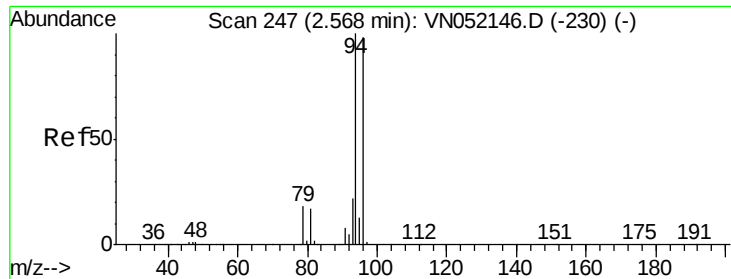
Tgt Ion: 62 Resp: 81250

Ion Ratio Lower Upper

62 100

64 31.8 25.8 38.6





#5

Bromomethane

Concen: 20.025 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

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ClientSampleId :

VN1107WBS02

Tot Ion: 94 Resp: 59531

Ion Ratio Lower Upper

94 100

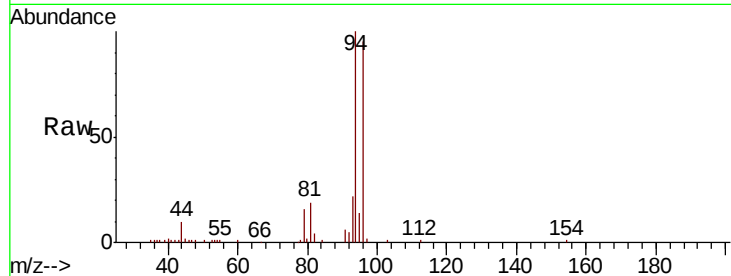
96 94.6 78.3 117.5

Manual Integrations

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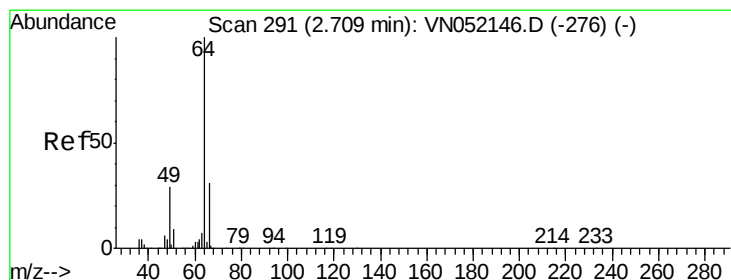
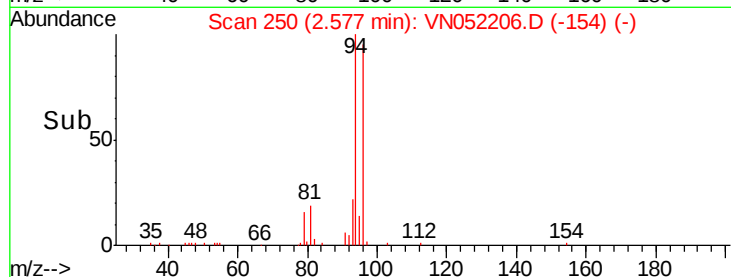
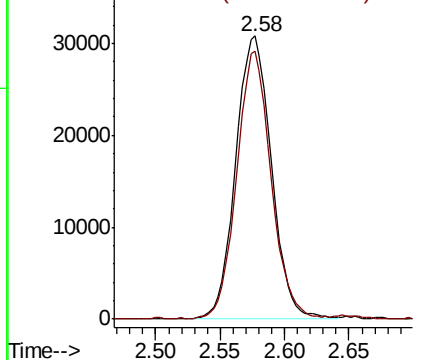
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Abundance Ion 93.90 (93.60 to 94.60): VN052206.D (-154) (-)

Ion 95.90 (95.60 to 96.60): VN052206.D (-154) (-)



#6

Chloroethane

Concen: 19.996 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052206.D

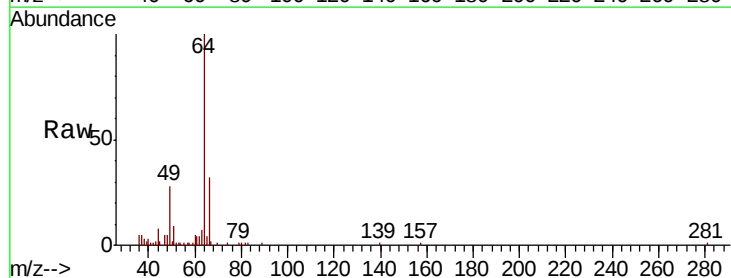
Acq: 7 Nov 2018 14:45

Tgt Ion: 64 Resp: 50842

Ion Ratio Lower Upper

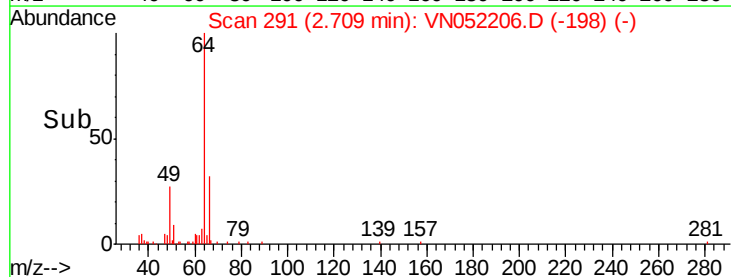
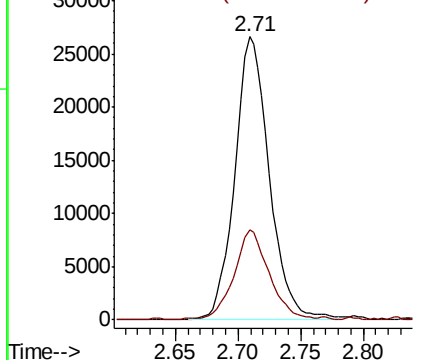
64 100

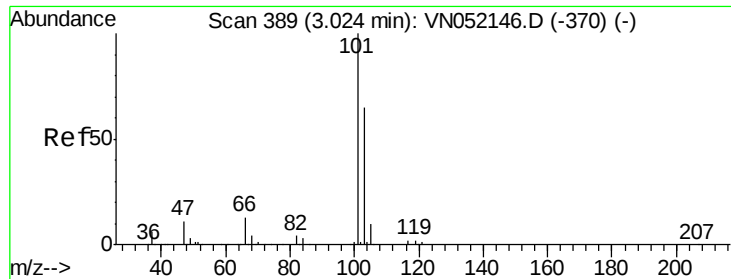
66 31.6 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VN052206.D (-198) (-)

Ion 65.90 (65.60 to 66.60): VN052206.D (-198) (-)





#7

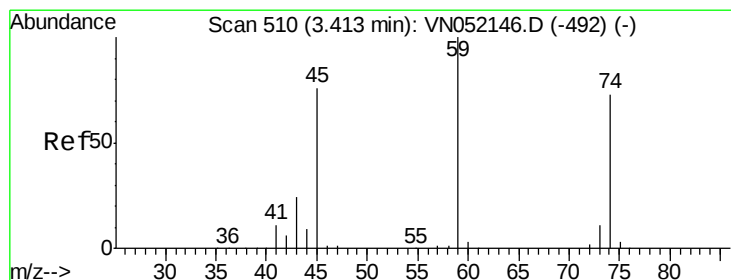
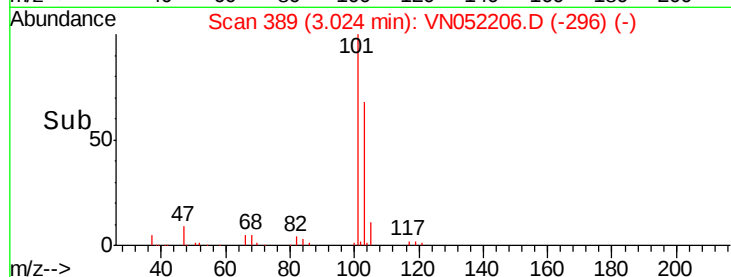
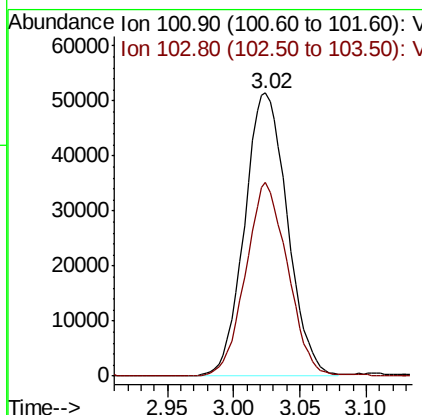
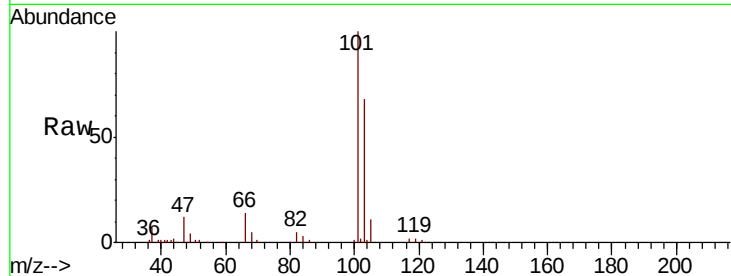
Trichlorofluoromethane
Concen: 19.993 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
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VN1107WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.0	52.2	78.4

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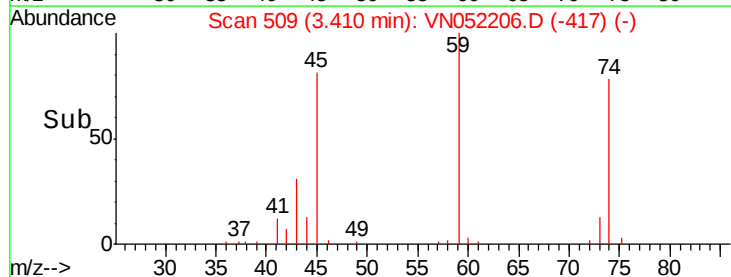
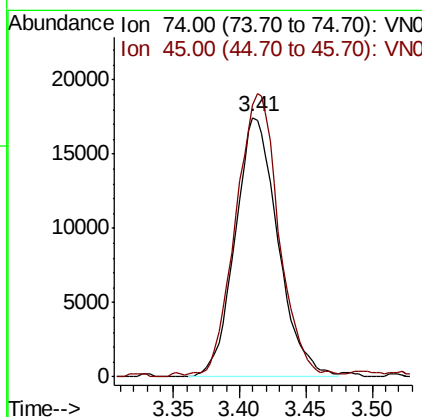
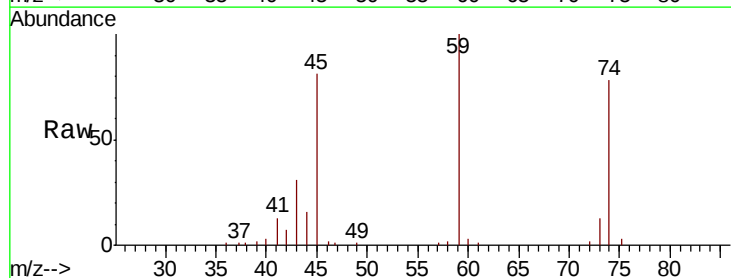
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11/8/2018 9:14:03 AM

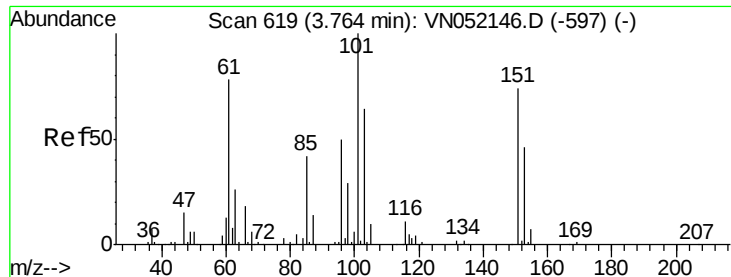


#8

Diethyl Ether
Concen: 19.395 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.7	49.1	147.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.703 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

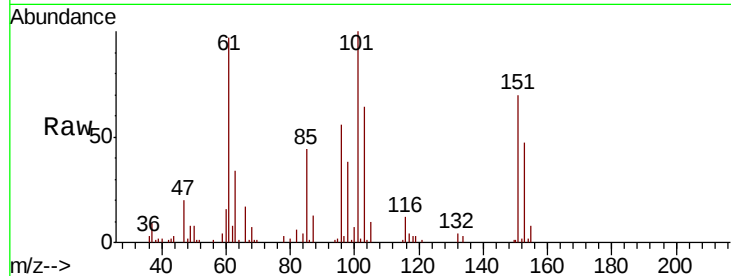
ClientSampleId :

VN1107WBS02

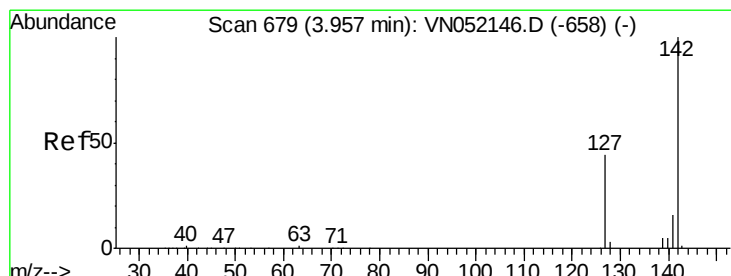
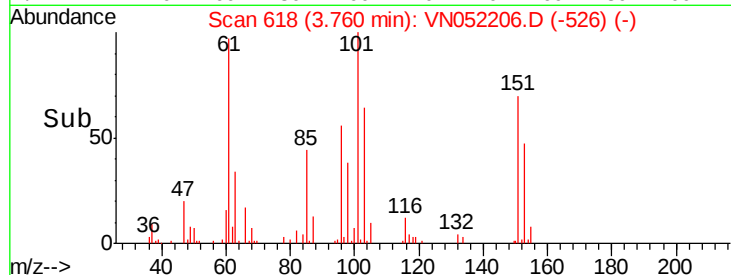
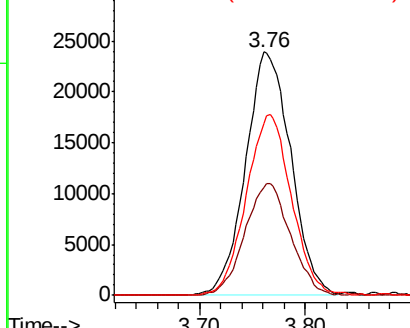
Tot Ion:	101	Resp:	71461
Ion Ratio	Lower	Upper	
101	100		
85	46.1	36.1	54.1
151	73.7	59.7	89.5

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



#10

Methyl Iodide

Concen: 19.606 ug/l

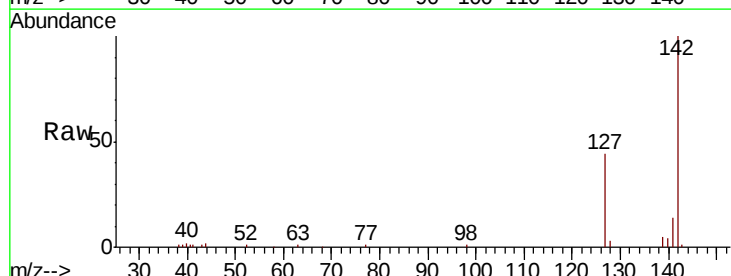
RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

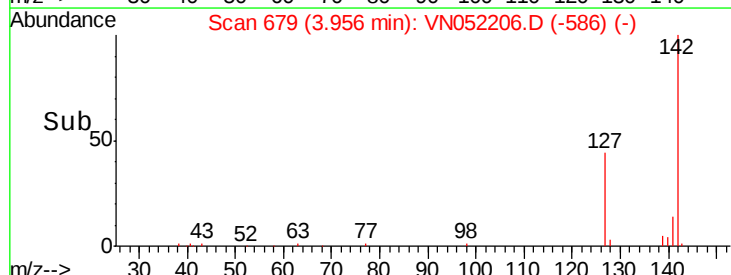
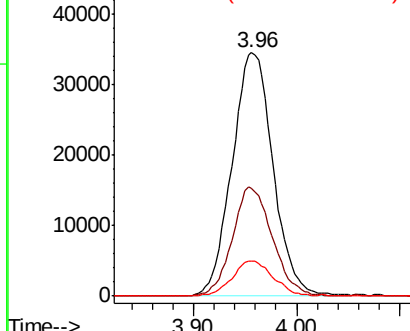
Lab File: VN052206.D

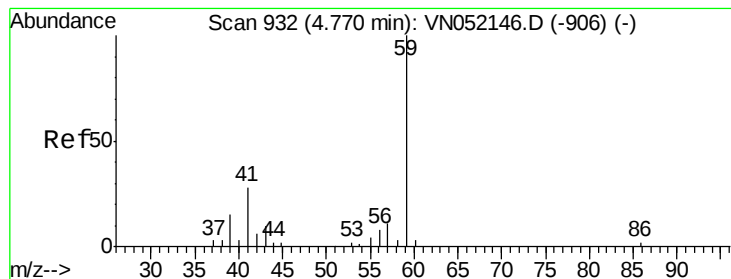
Acq: 7 Nov 2018 14:45

Tgt Ion:	142	Resp:	95546
Ion Ratio	Lower	Upper	
142	100		
127	43.6	36.0	54.0
141	14.3	11.8	17.6



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





#11

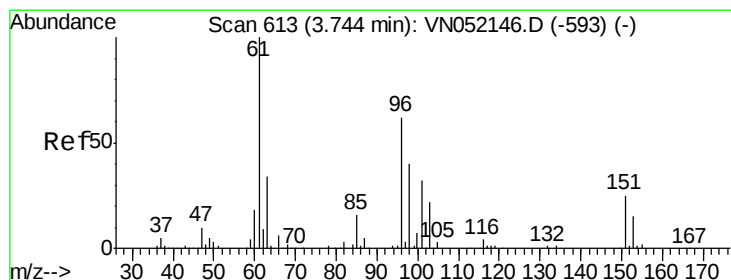
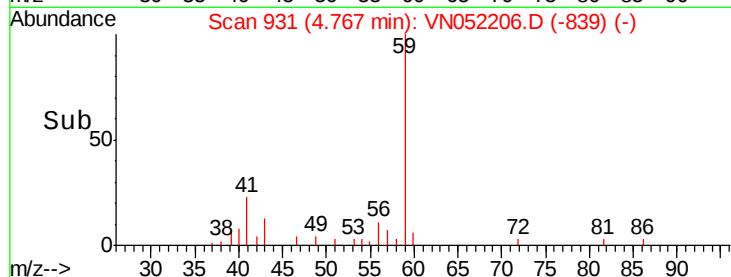
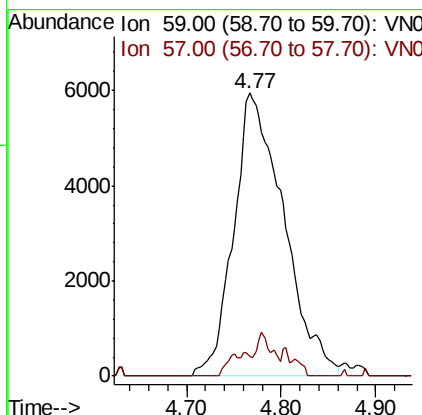
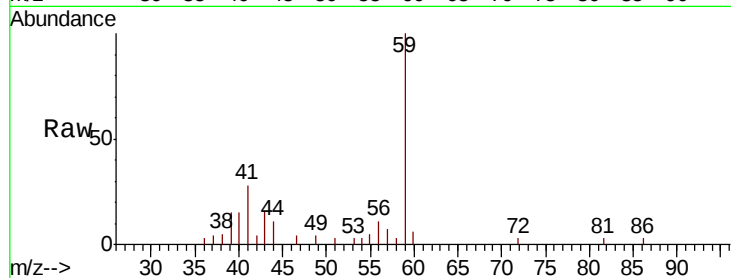
Tert butyl alcohol
 Concen: 119.948 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	5.7	8.5#

Manual Integrations
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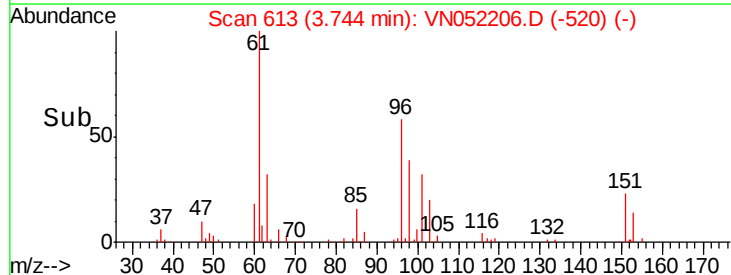
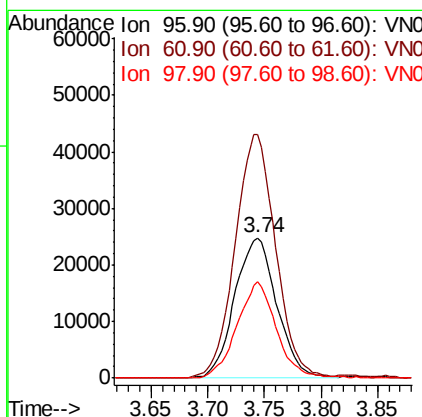
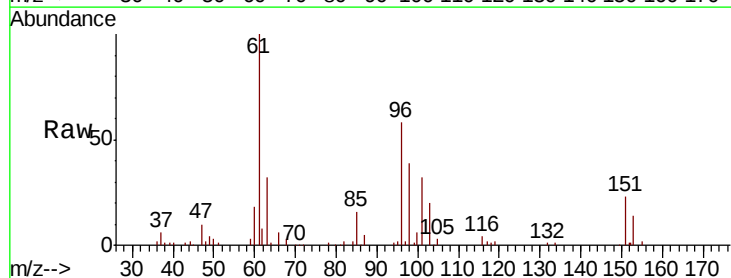
MMDadoda
 11/8/2018 9:14:03 AM

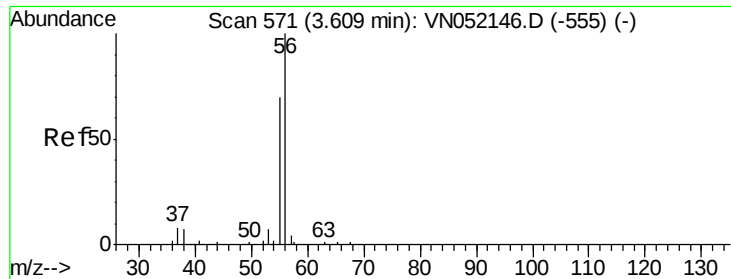


#12

1,1-Dichloroethene
 Concen: 19.723 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.9	128.4	192.6
98	68.3	50.9	76.3





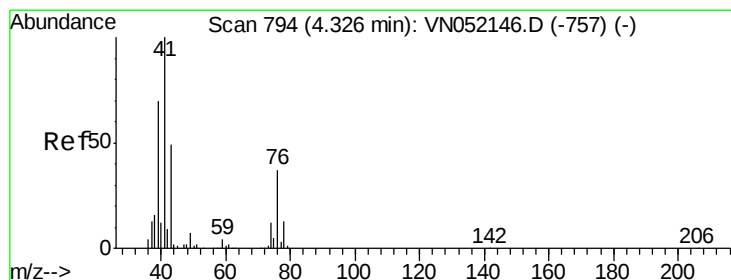
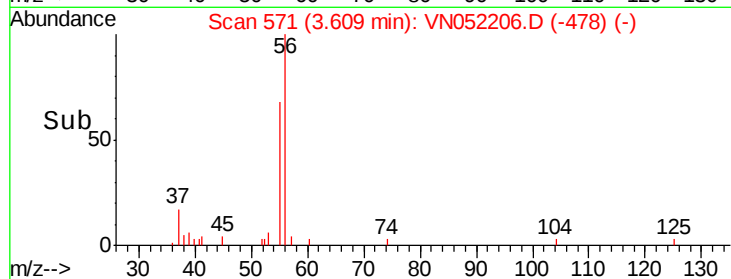
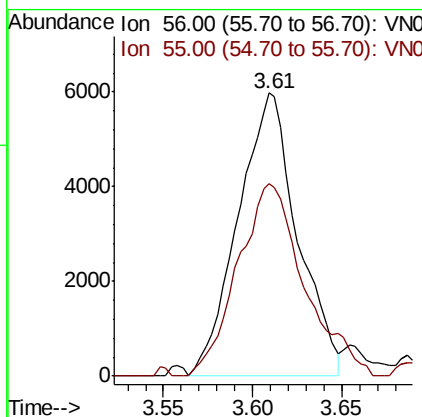
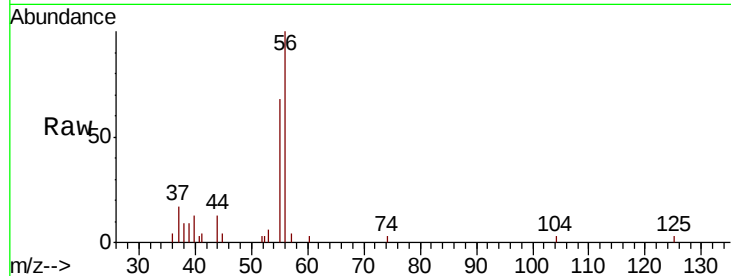
#13
Acrolein
Concen: 98.346 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	56	55	Ratio	Lower	Upper
13916	100	76.0		56.6	84.8

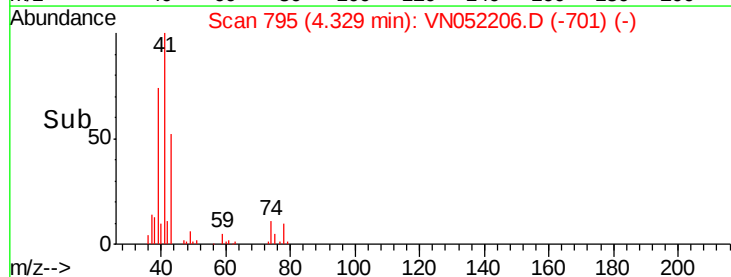
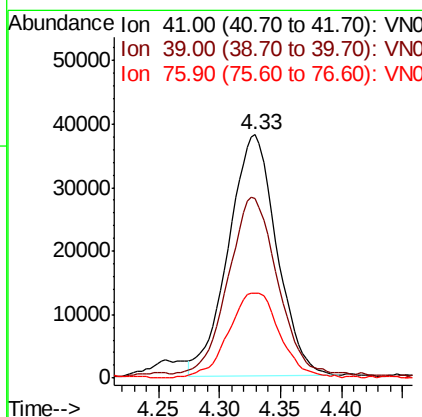
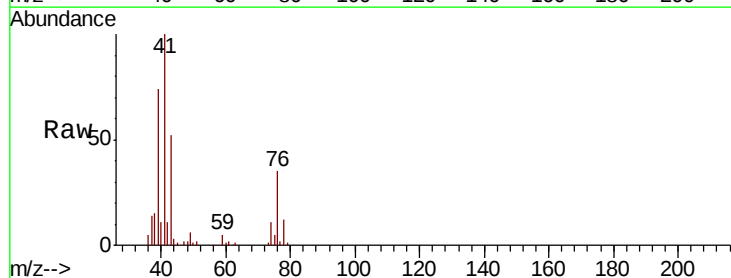
Manual Integrations
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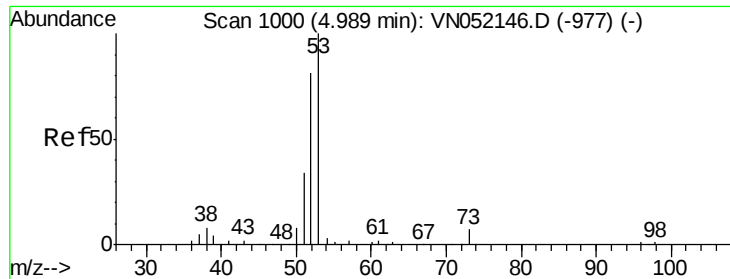
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#14
Allyl chloride
Concen: 19.267 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	41	39	76	Ratio	Lower	Upper
104497	100	74.3	37.5		55.3	82.9





#15

Acrylonitrile

Concen: 103.022 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

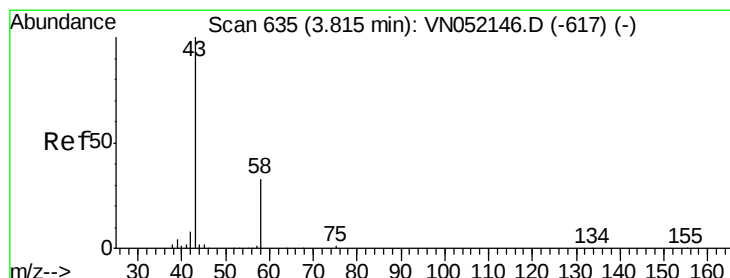
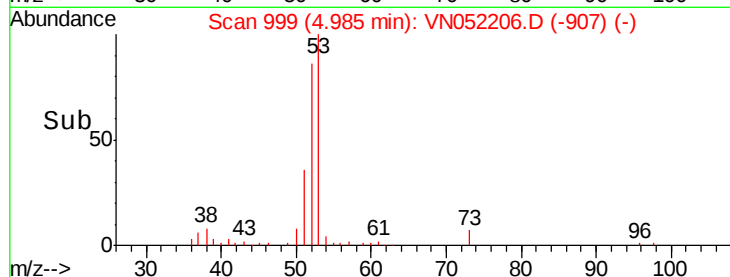
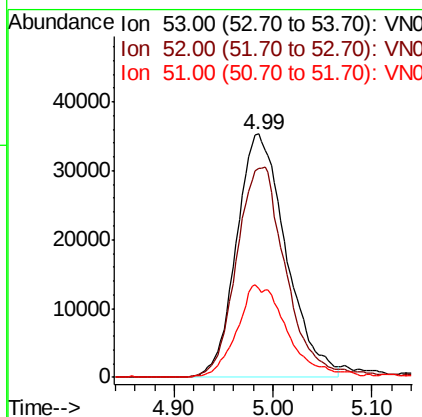
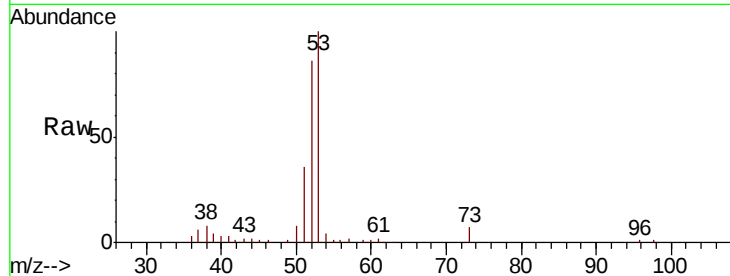
ClientSampleId :

VN1107WBS02

Tot Ion:	53	Resp:	122640
Ion	Ratio	Lower	Upper
53	100		
52	85.7	66.5	99.7
51	38.0	29.2	43.8

Manual Integrations
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#16

Acetone

Concen: 91.441 ug/l

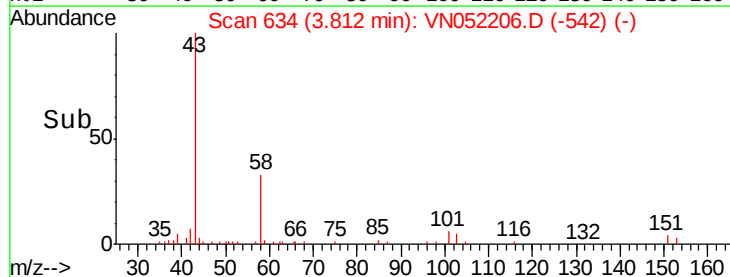
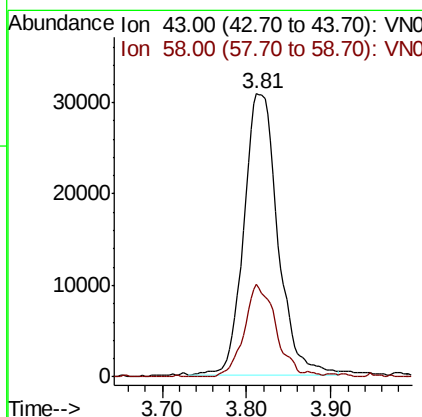
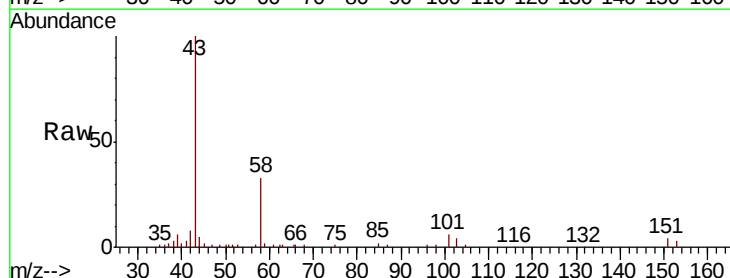
RT: 3.81 min Scan# 634

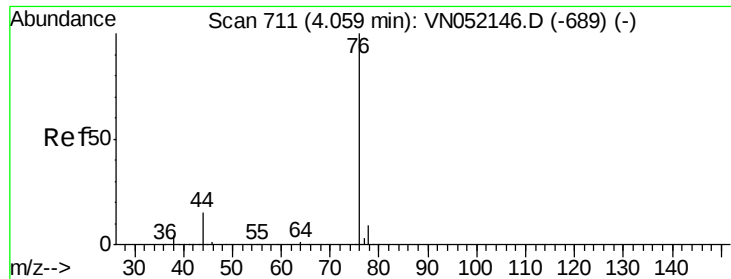
Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion:	43	Resp:	86657
Ion	Ratio	Lower	Upper
43	100		
58	32.8	26.2	39.2





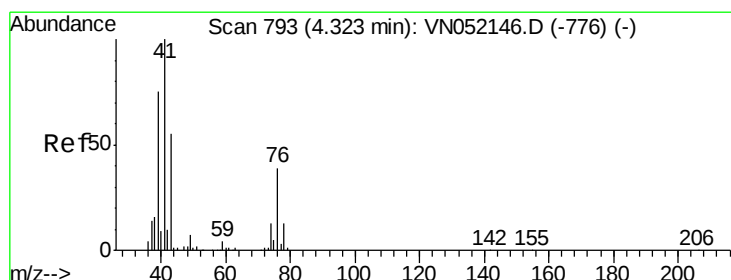
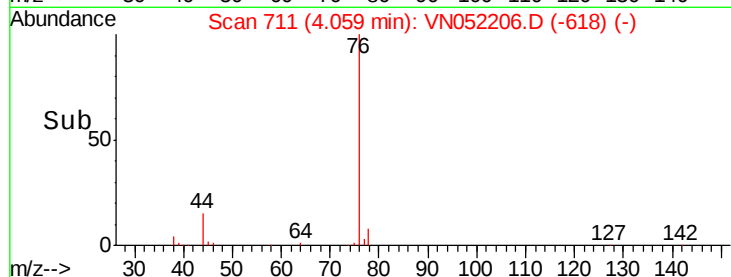
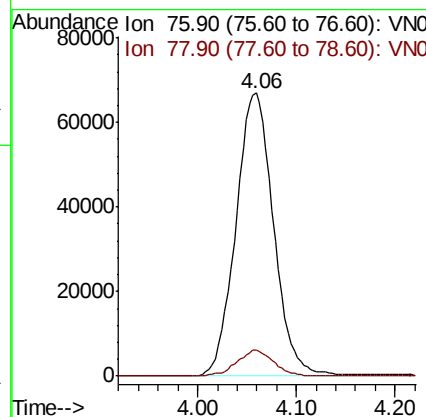
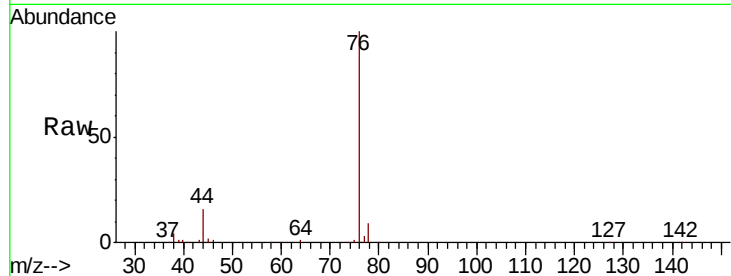
#17
Carbon Disulfide
Concen: 19.145 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

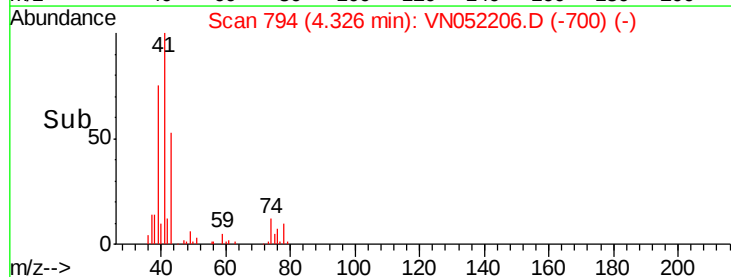
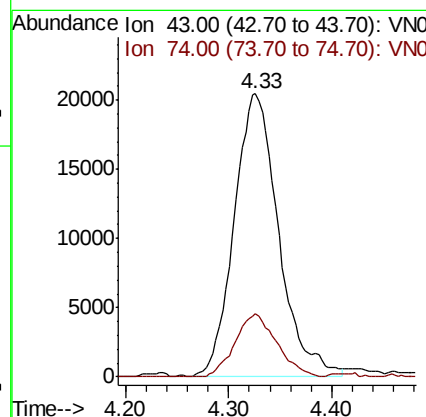
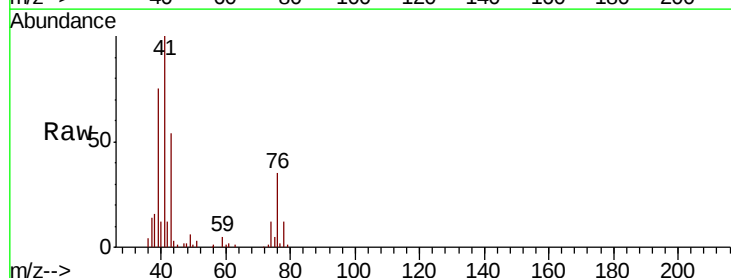
Manual Integrations
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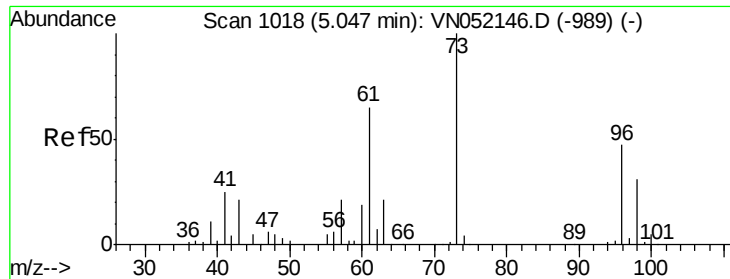
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#18
Methyl Acetate
Concen: 20.414 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.9	19.3	28.9





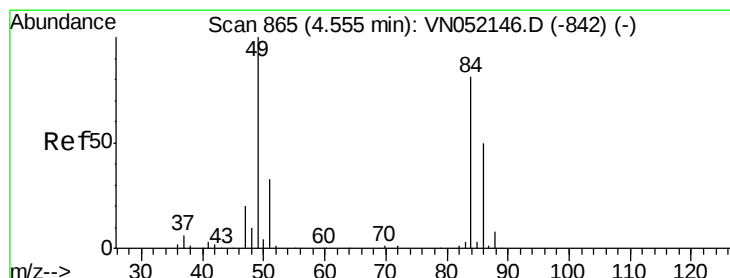
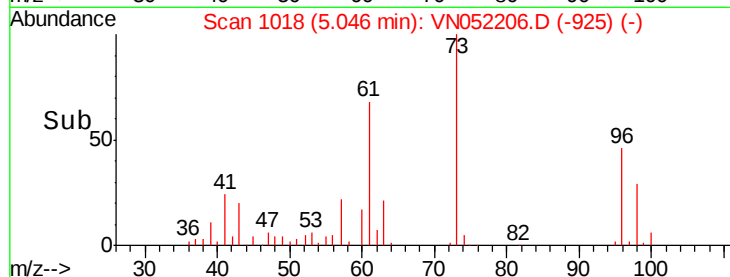
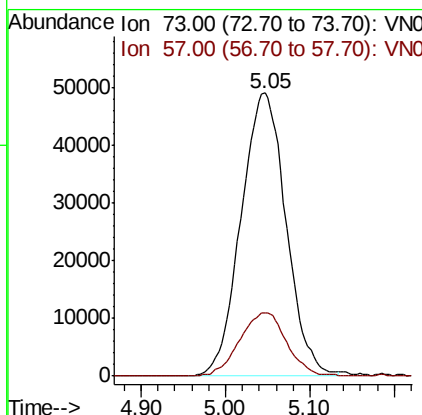
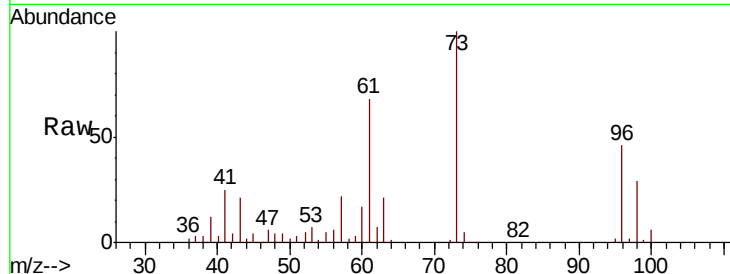
#19
Methvl tert-butvl Ether
Concen: 20.353 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion: 73 Resp: 182026
Ion Ratio Lower Upper
73 100
57 22.4 16.8 25.2

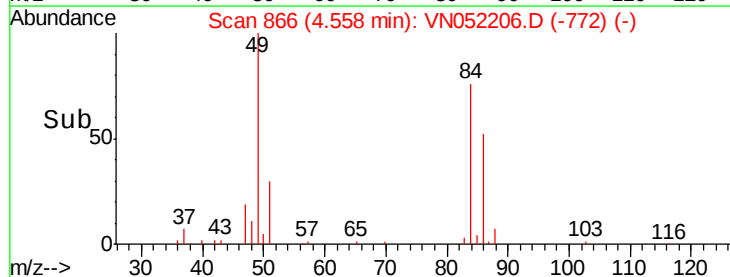
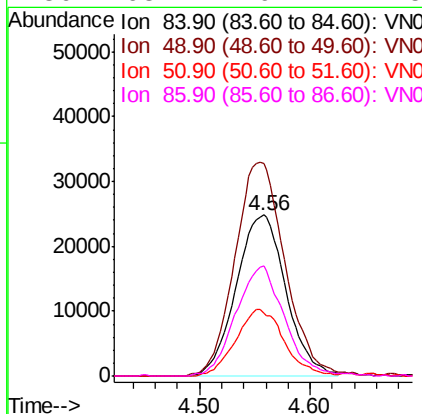
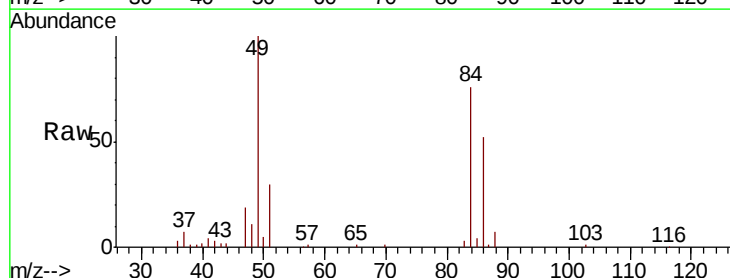
Manual Integrations
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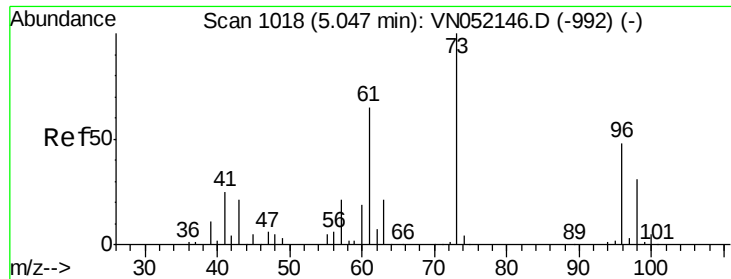
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#20
Methylene Chloride
Concen: 19.720 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion: 84 Resp: 77653
Ion Ratio Lower Upper
84 100
49 130.9 98.4 147.6
51 39.2 32.5 48.7
86 68.7 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 20.286 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 96 Resp: 73086

Ion Ratio Lower Upper

96 100

61 147.2 109.6 164.4

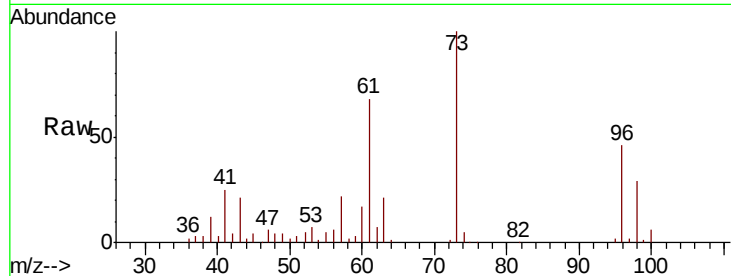
98 63.3 52.0 78.0

Manual Integrations

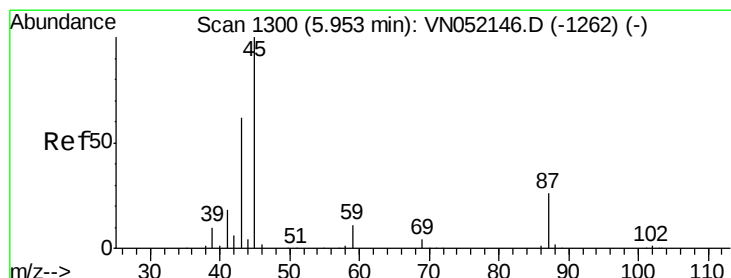
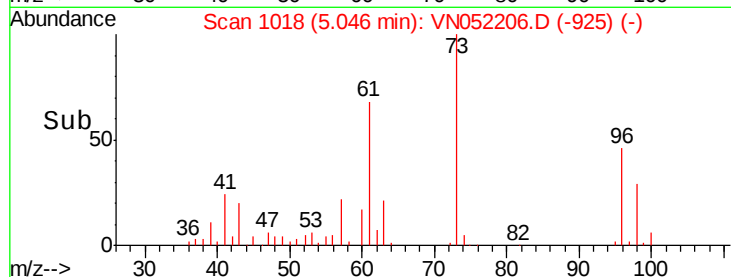
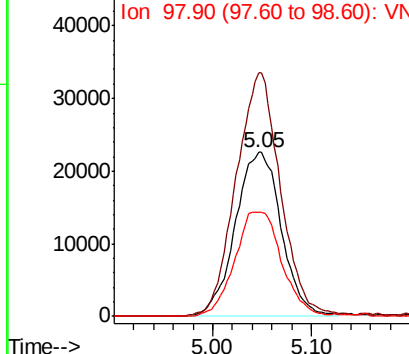
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Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 21.277 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion: 45 Resp: 253150

Ion Ratio Lower Upper

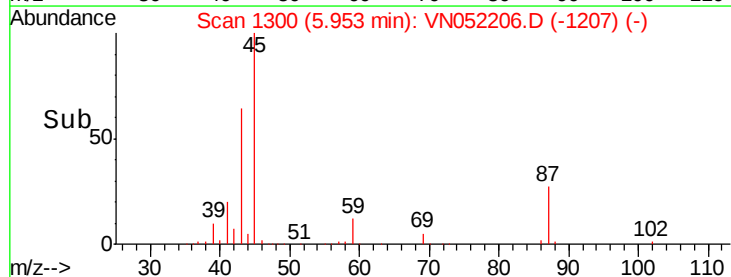
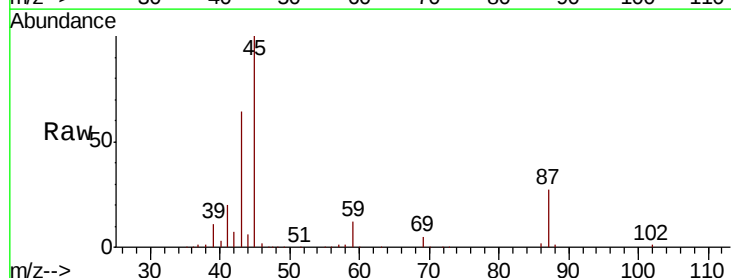
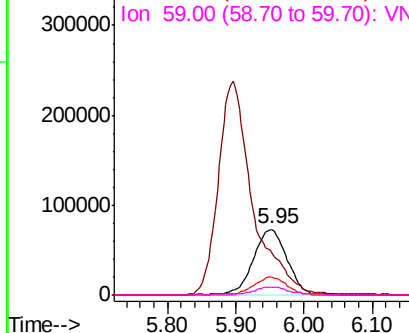
45 100

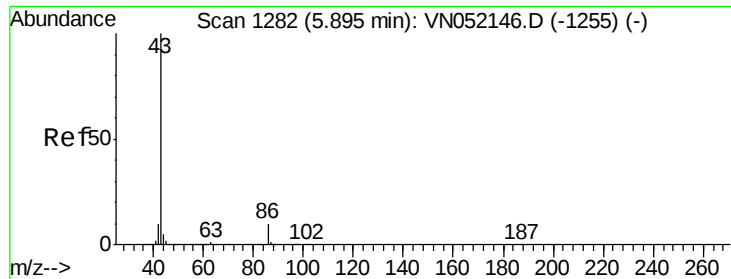
43 62.5 49.8 74.6

87 26.7 21.1 31.7

59 11.5 8.9 13.3

Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 105.618 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampled :

VN1107WBS02

Tot Ion: 43 Resp: 830635

Ion Ratio Lower Upper

43 100

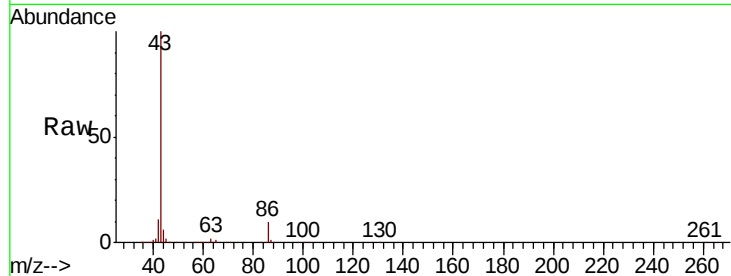
86 10.0 7.9 11.9

Manual Integrations

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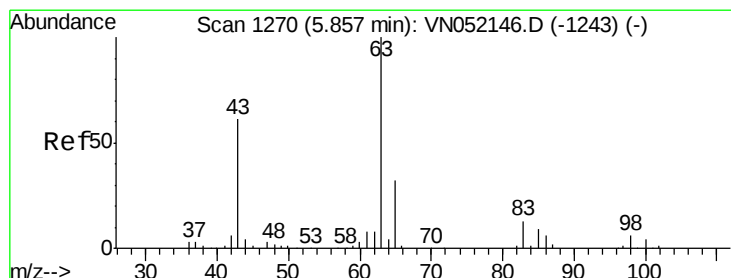
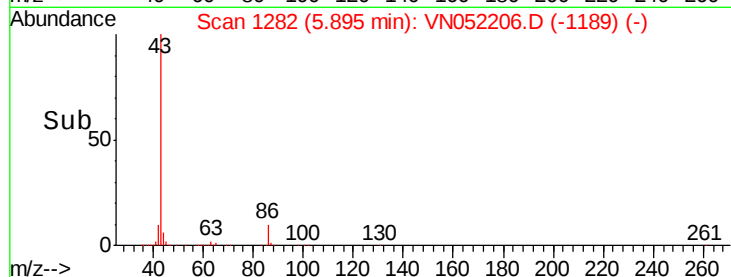
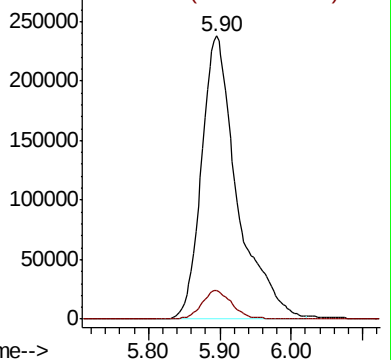
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.750 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

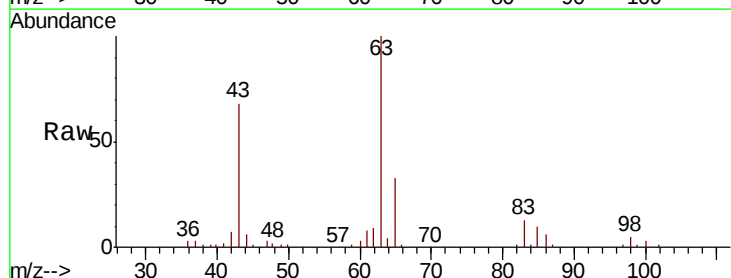
Tgt Ion: 63 Resp: 140267

Ion Ratio Lower Upper

63 100

98 5.5 3.1 9.4

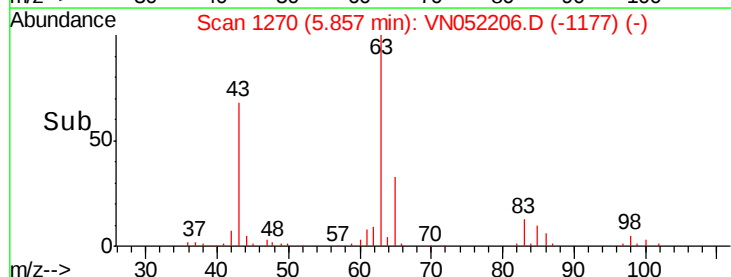
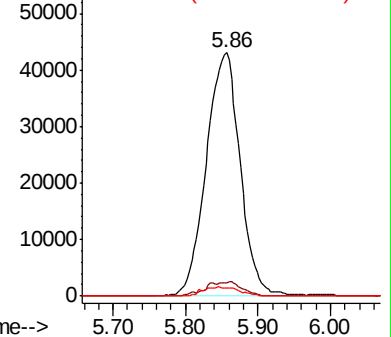
100 3.3 2.1 6.2

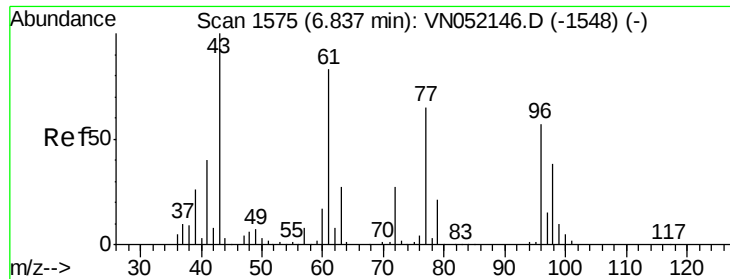


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





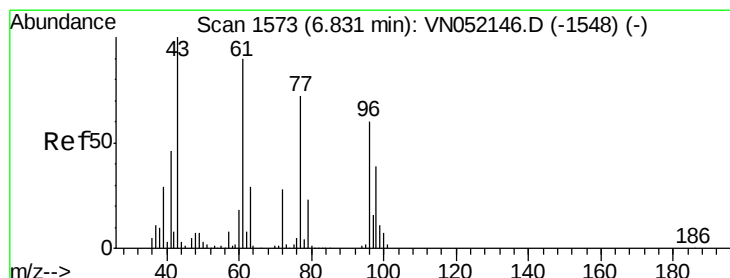
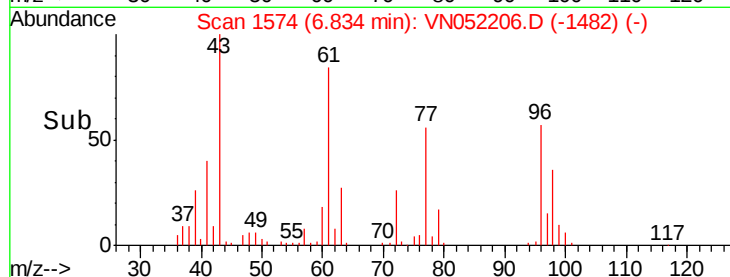
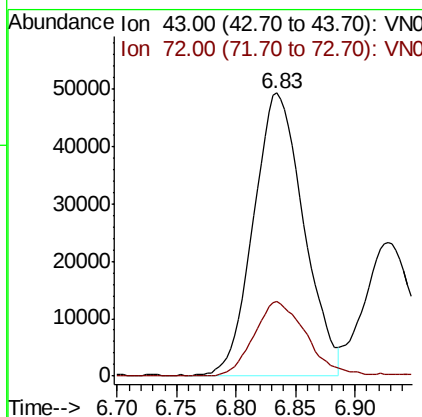
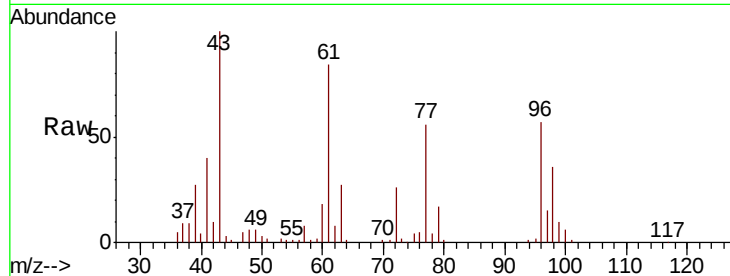
#25
2-Butanone
Concen: 98.294 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampled :
VN1107WBS02

Tot Ion: 43 Resp: 144444
Ion Ratio Lower Upper
43 100
72 26.4 21.4 32.2

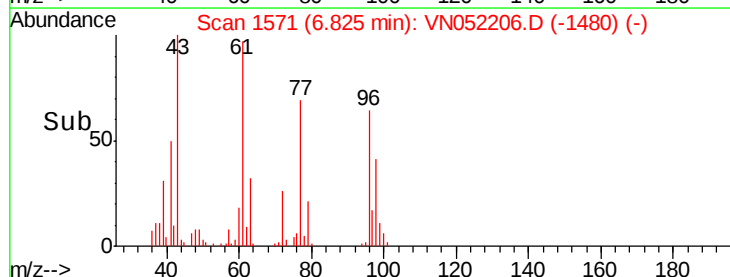
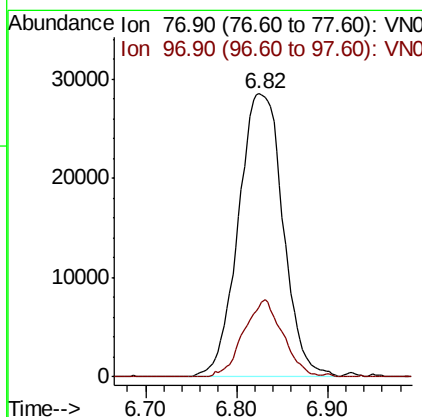
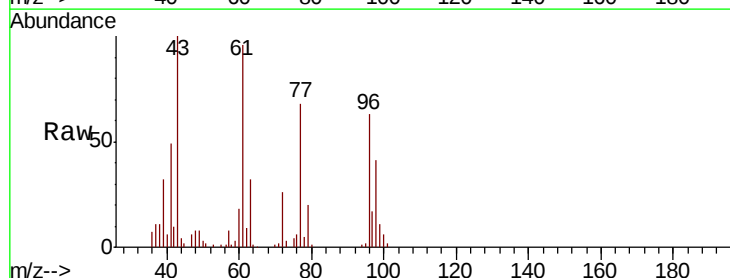
Manual Integrations
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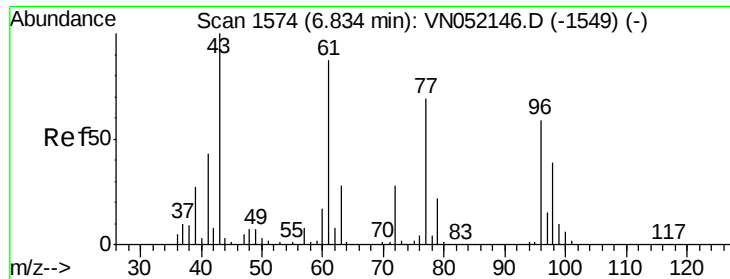
MMDadoda
11/8/2018 9:14:03 AM



#26
2,2-Dichloropropane
Concen: 18.346 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion: 77 Resp: 97056
Ion Ratio Lower Upper
77 100
97 24.0 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 20.185 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

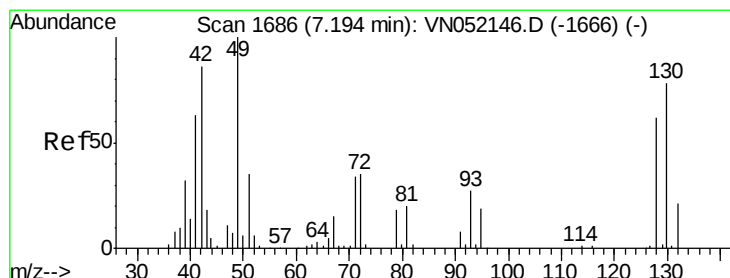
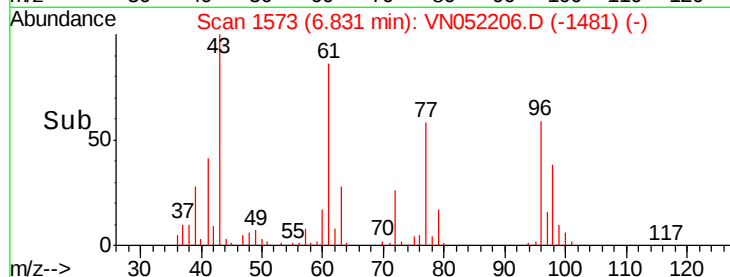
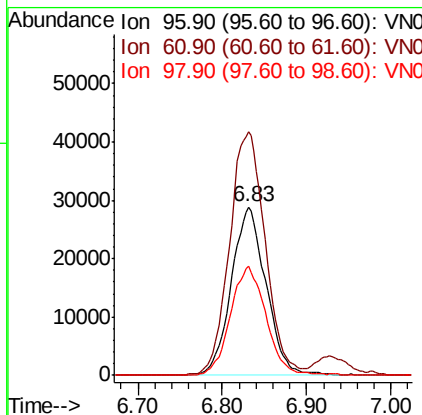
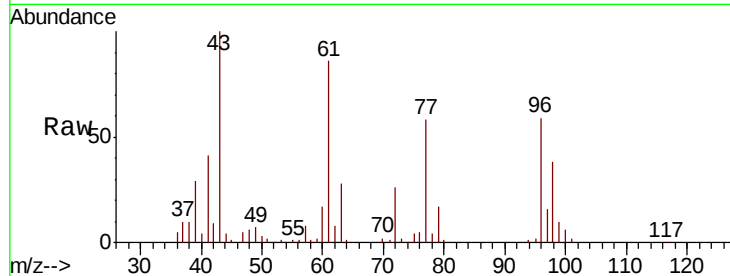
ClientSampleId :

VN1107WBS02

Tot Ion:	96	Resp:	82750
Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	291.8
98	66.0	0.0	130.0

Manual Integrations
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#28

Bromochloromethane

Concen: 23.124 ug/l

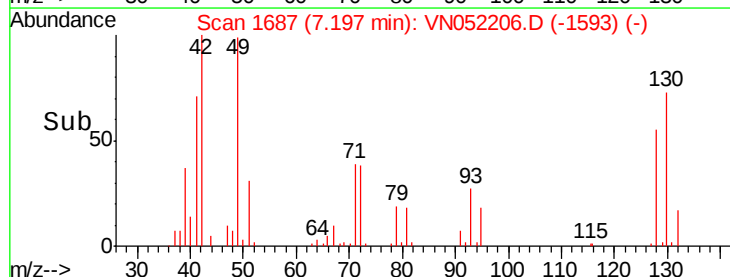
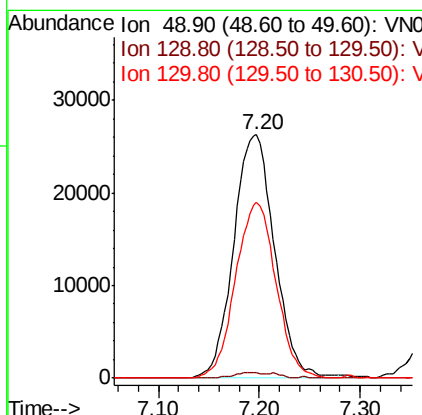
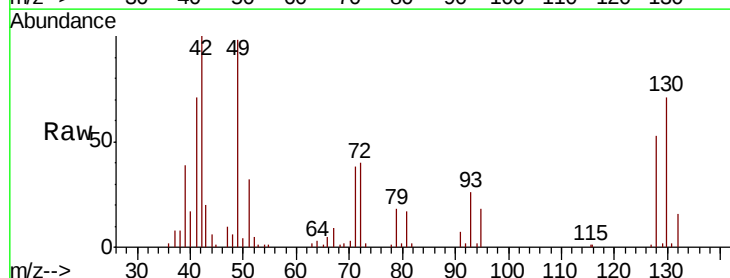
RT: 7.20 min Scan# 1687

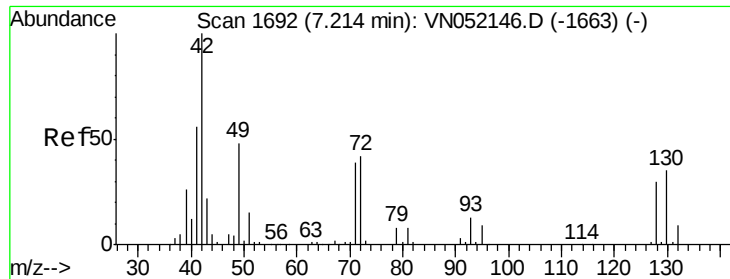
Delta R.T. 0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion:	49	Resp:	73955
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.4
130	71.2	59.8	89.6





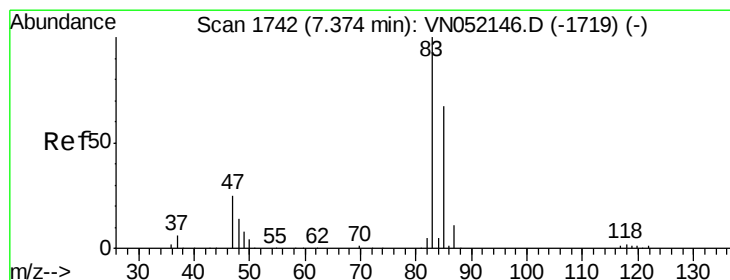
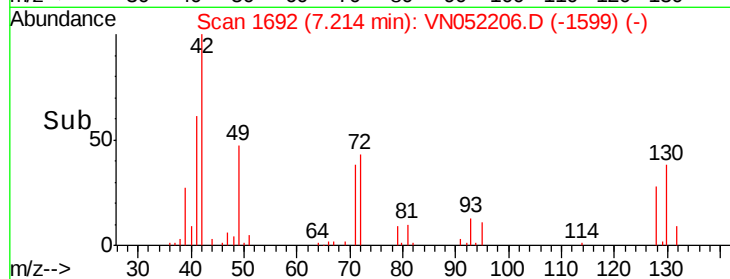
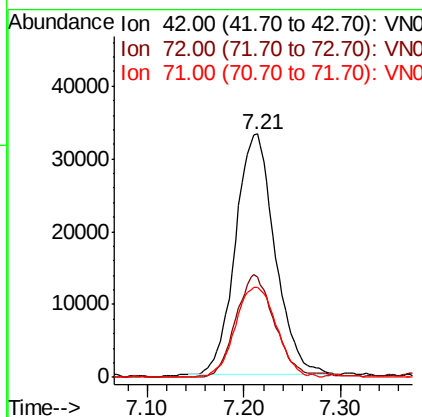
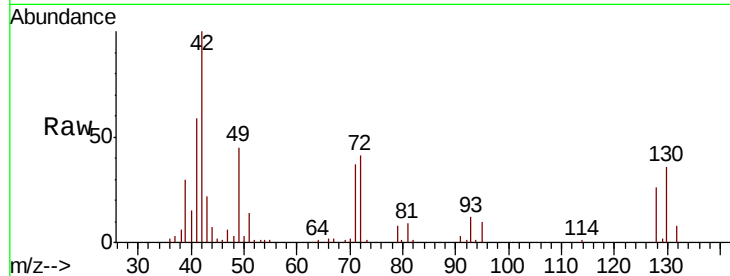
#29
Tetrahydrofuran
Concen: 103.838 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.3	48.5
71	39.1	31.0	46.6

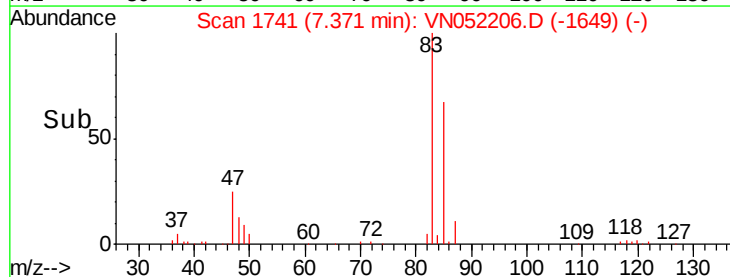
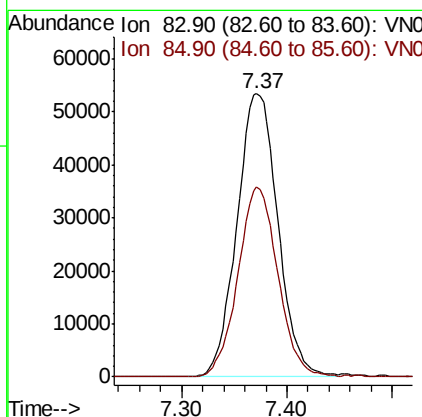
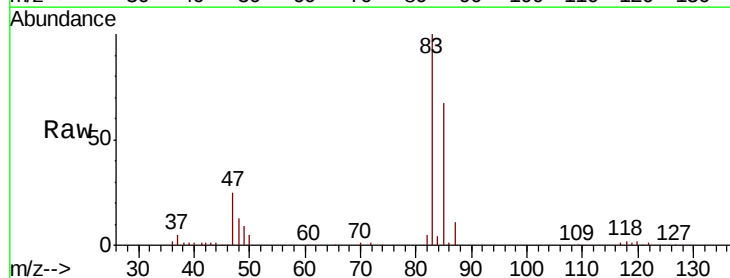
Manual Integrations
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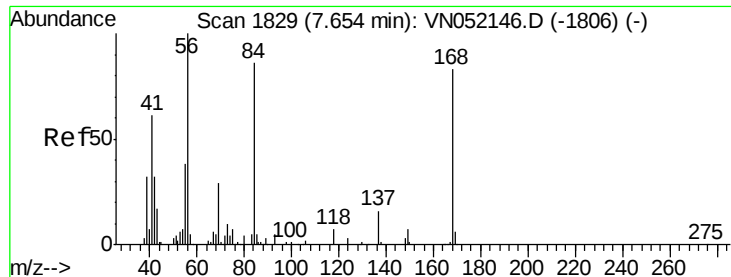
MMDadoda
11/8/2018 9:14:03 AM



#30
Chloroform
Concen: 21.404 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.7	80.5





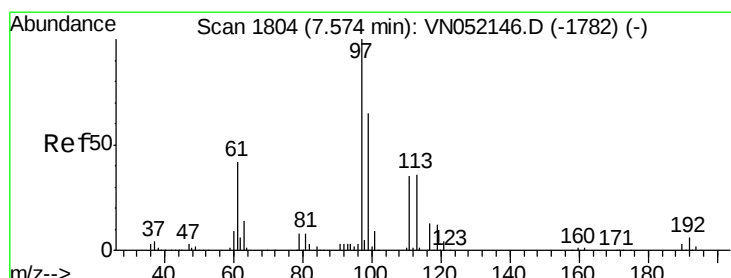
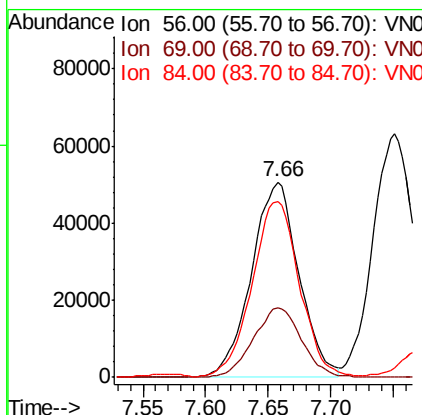
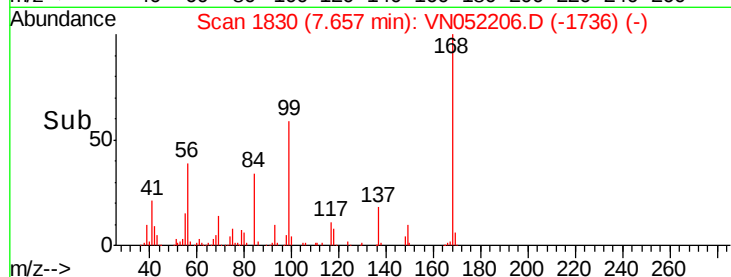
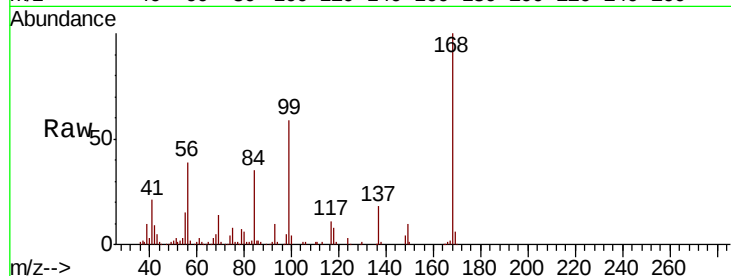
#31
Cyclohexane
Concen: 20.128 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.5	23.5	35.3#
84	89.5	68.7	103.1

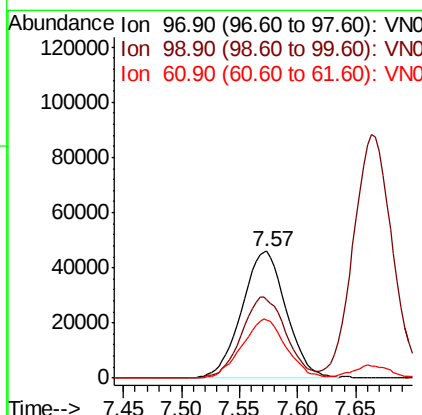
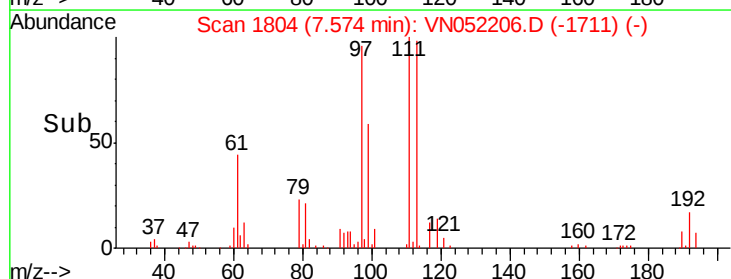
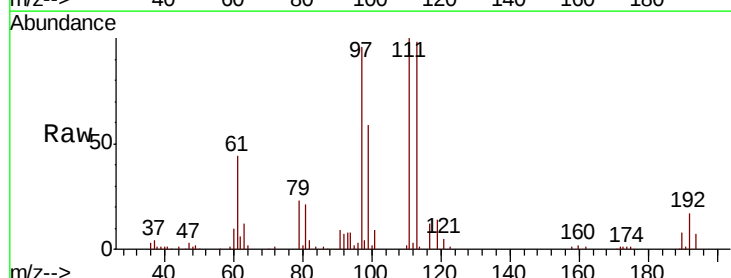
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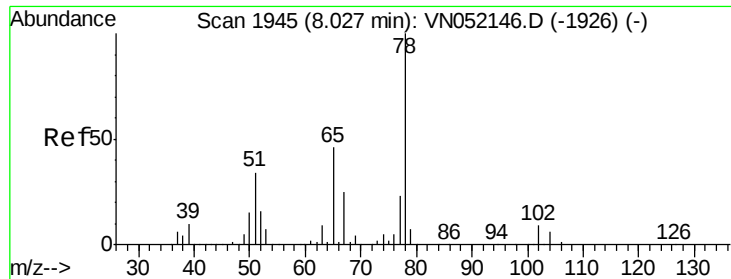
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#32
1,1,1-Trichloroethane
Concen: 20.659 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	46.3	35.1	52.7





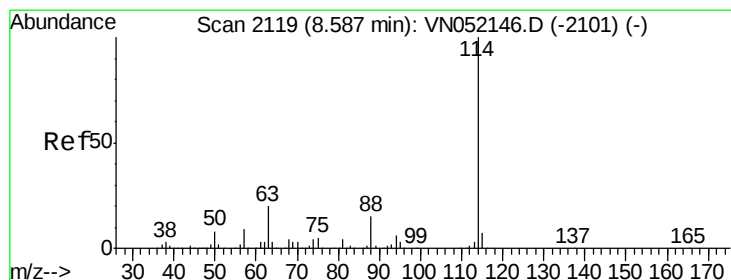
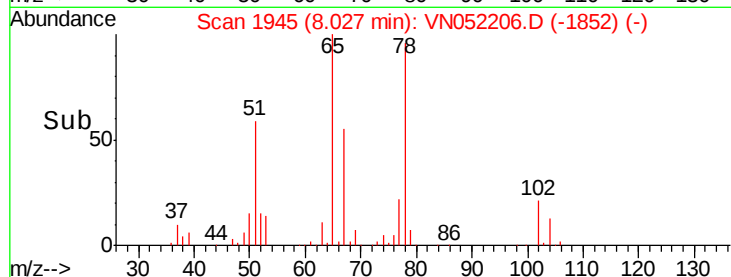
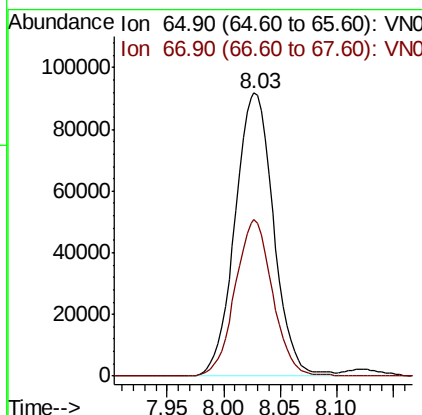
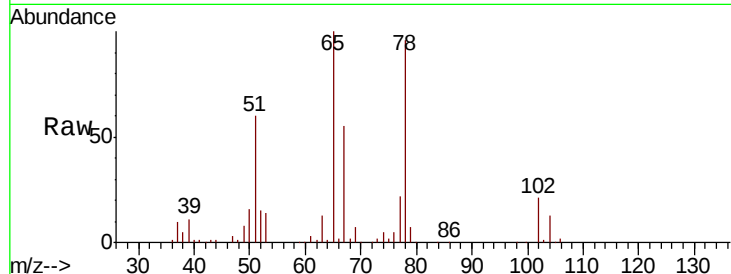
#33
 1,2-Dichloroethane-d4
 Concen: 20.659 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.6

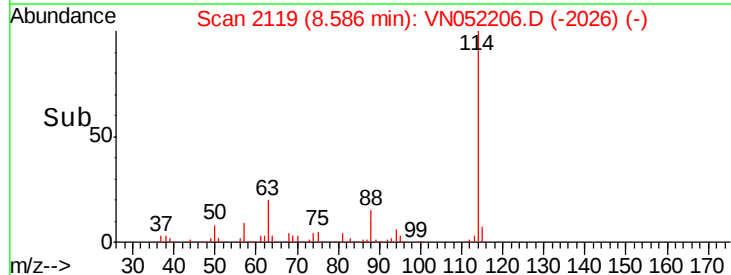
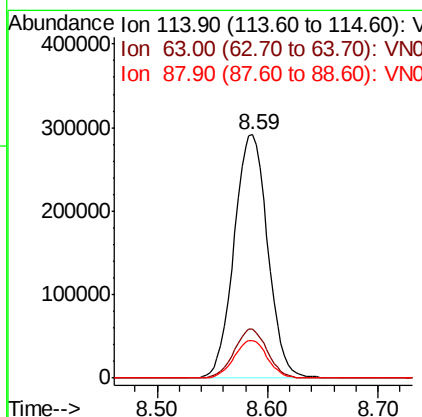
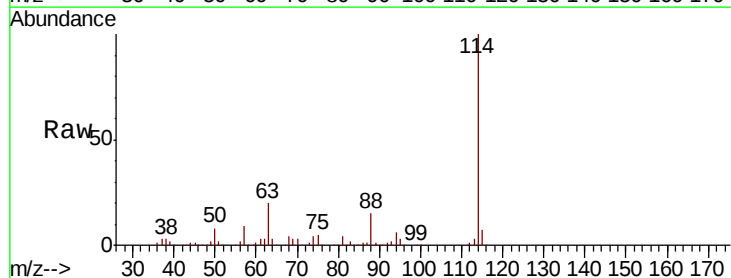
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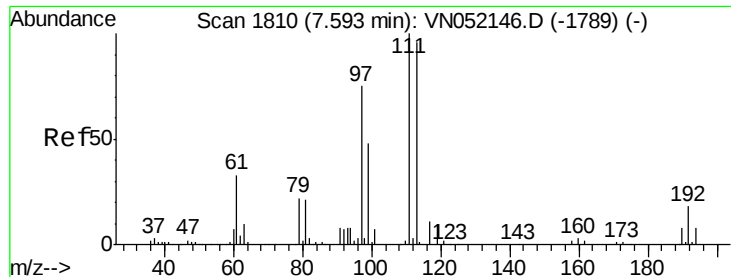
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 11/8/2018 9:14:03 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.0
88	15.5	0.0	31.0





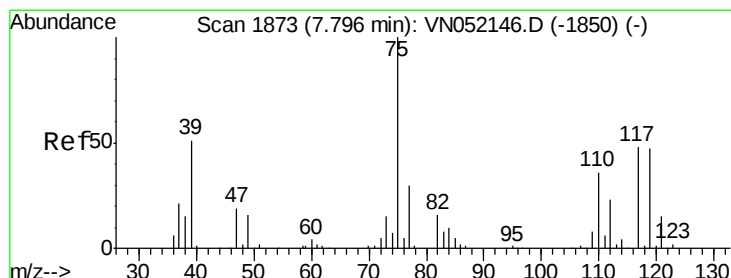
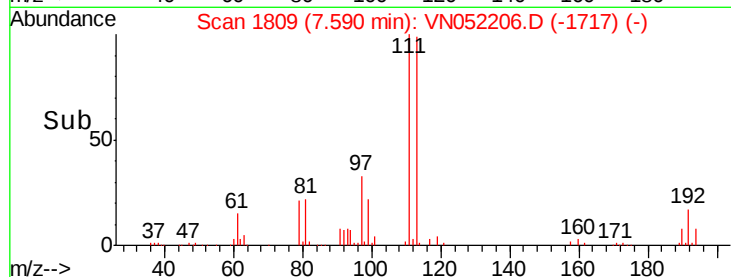
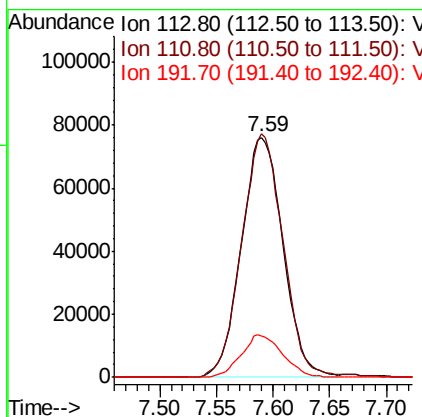
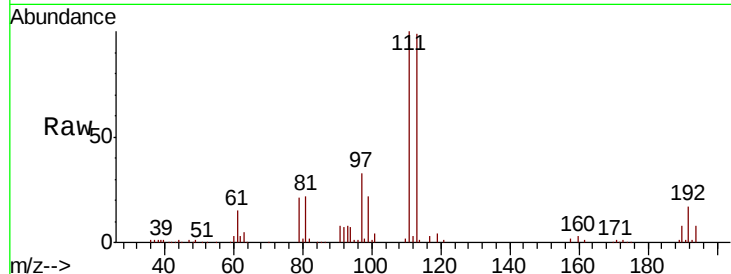
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	195136		
111	100.3	81.7	122.5	
192	17.6	14.2	21.4	

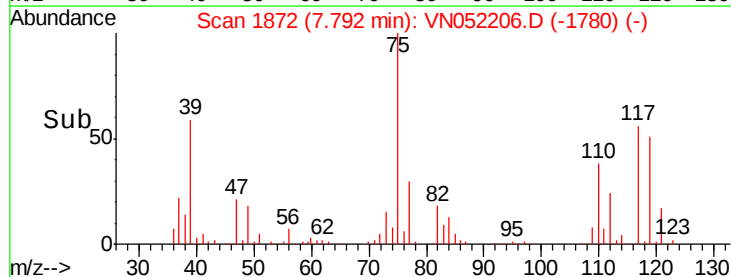
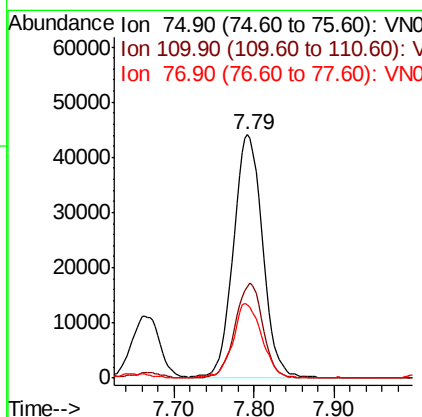
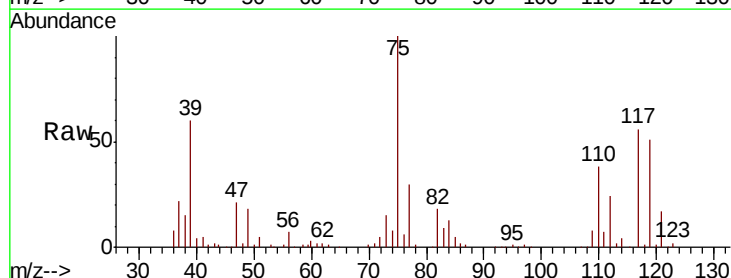
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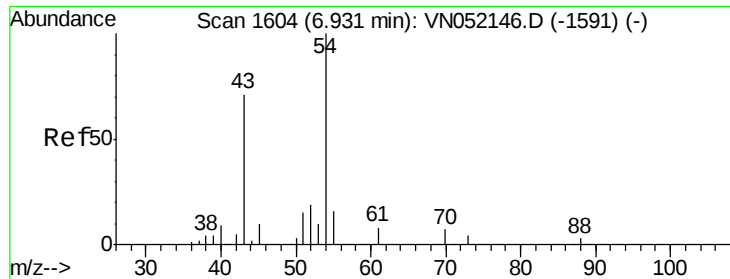
MMDadoda
11/8/2018 9:14:03 AM



#36
1,1-Dichloropropene
Concen: 19.990 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	108971		
110	36.8	17.8	53.5	
77	30.5	24.0	36.0	





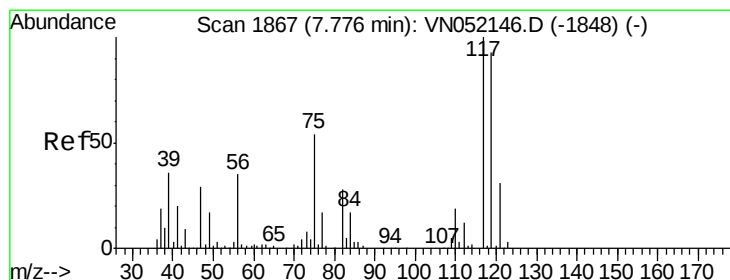
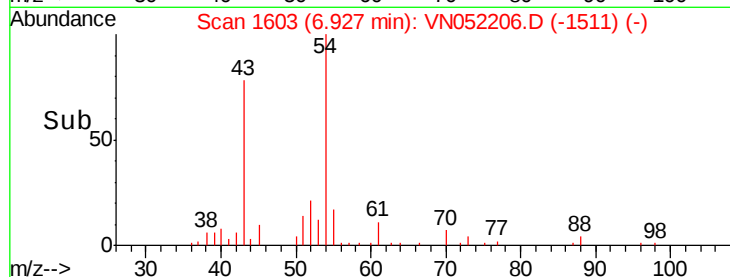
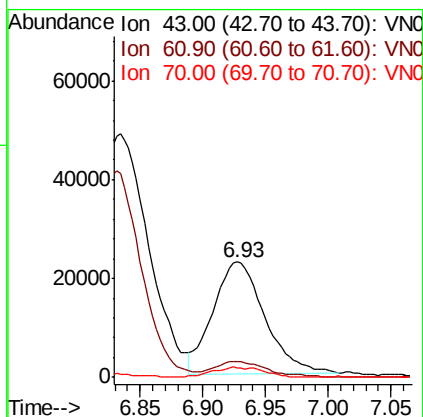
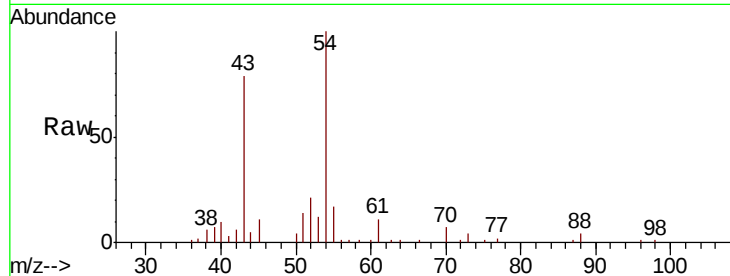
#37
Ethyl Acetate
Concen: 19.447 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	10.5	9.4	14.2
70	5.5	7.6	11.4

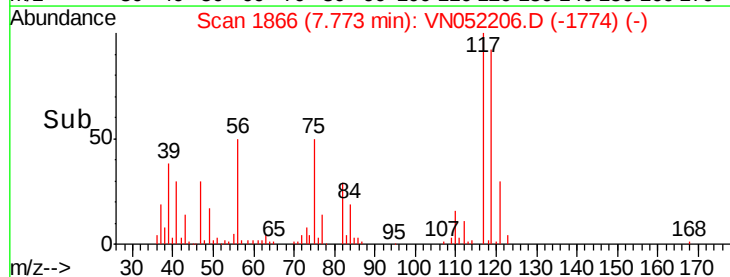
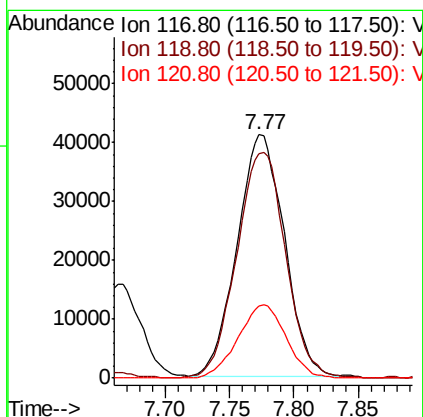
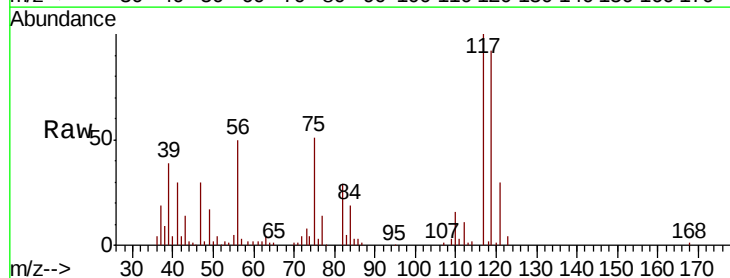
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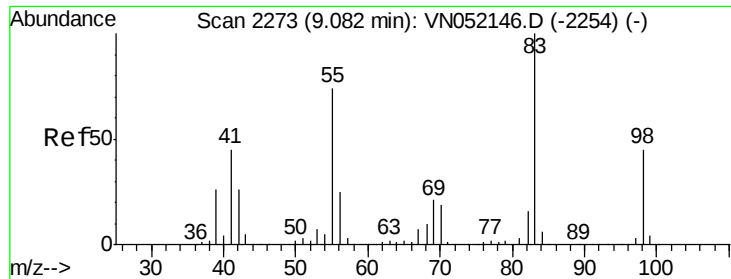
MMDadoda
11/8/2018 9:14:03 AM



#38
Carbon Tetrachloride
Concen: 19.184 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.0	74.7	112.1
121	30.1	24.5	36.7





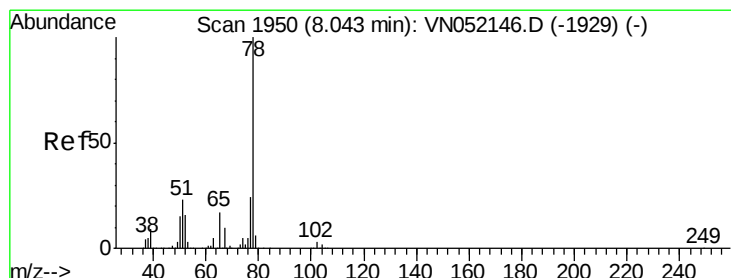
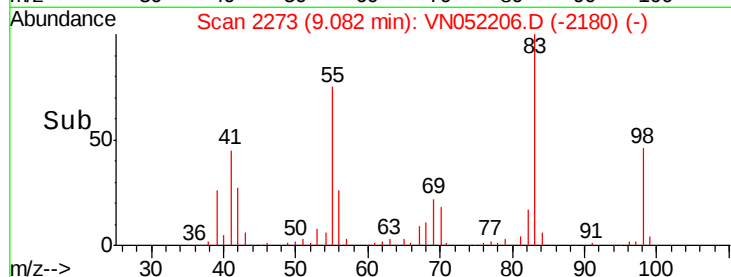
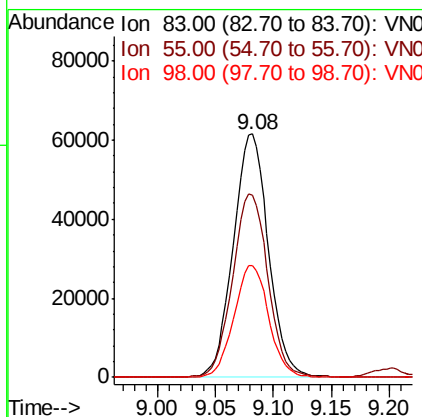
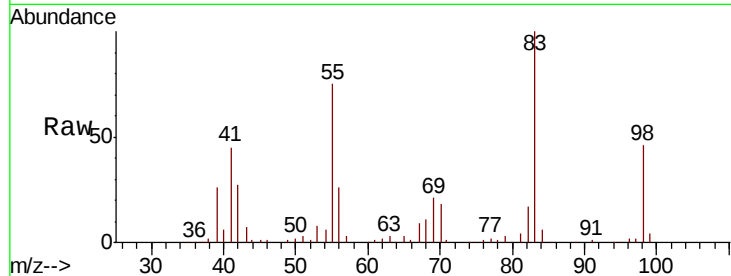
#39
Methvlcvclohexane
Concen: 20.052 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	83.00	Resp	129459
Ion Ratio	Lower	Upper	
83	100		
55	74.7	59.4	89.2
98	46.2	36.3	54.5

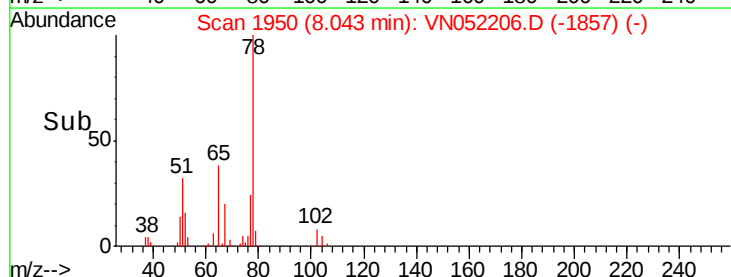
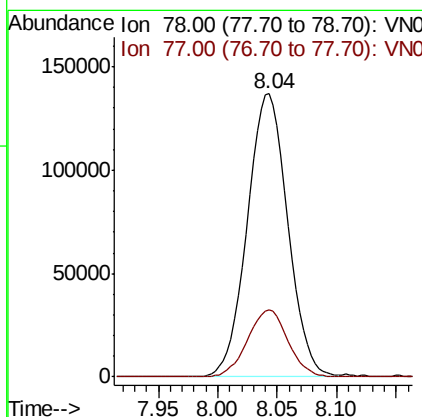
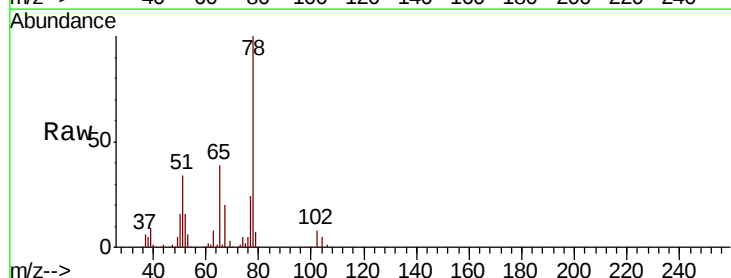
Manual Integrations
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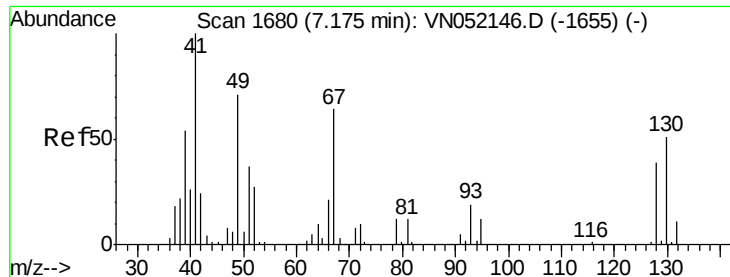
MMDadoda
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#40
Benzene
Concen: 20.139 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	78.00	Resp	322738
Ion Ratio	Lower	Upper	
78	100		
77	23.6	19.1	28.7





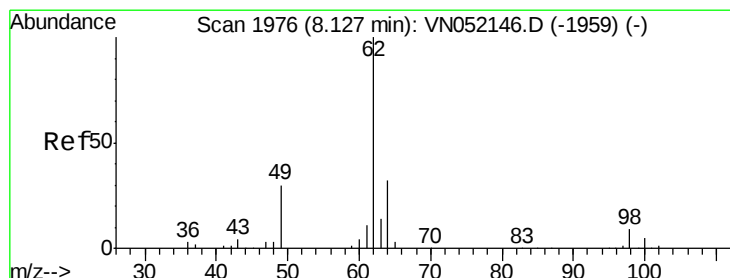
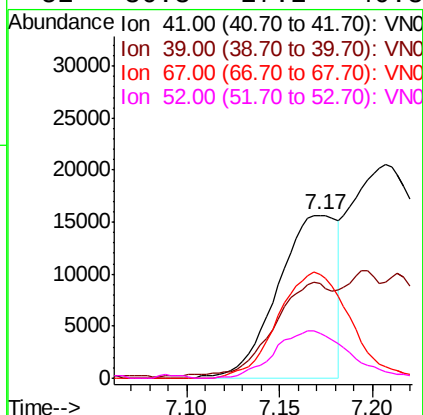
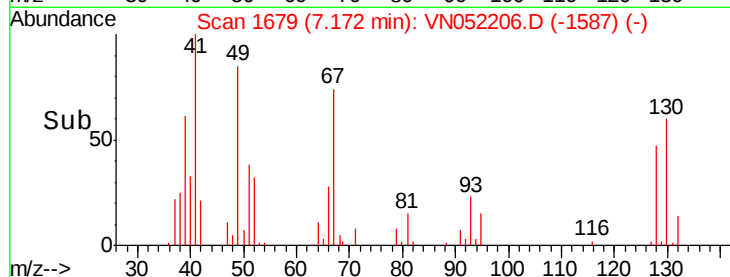
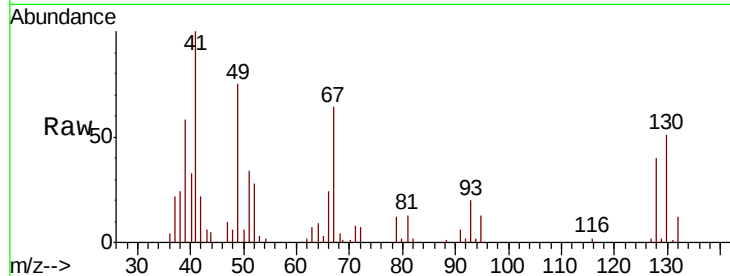
#41
Methacrylonitrile
Concen: 19.402 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	41	Resp	34881
Ion Ratio	Lower	Upper	
41	100		
39	54.7	49.6	74.4
67	79.4	65.4	98.2
52	36.3	27.2	40.8

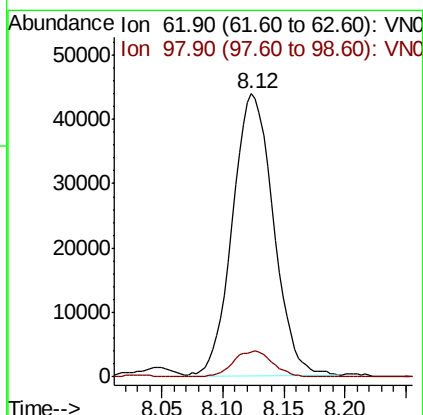
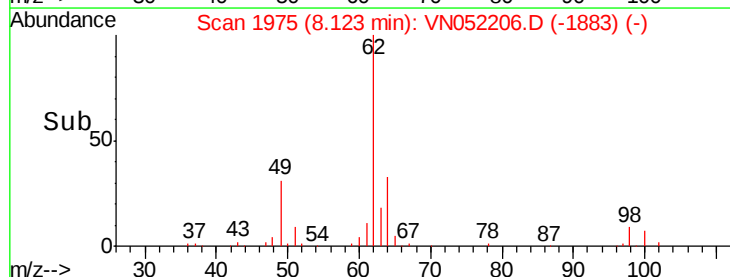
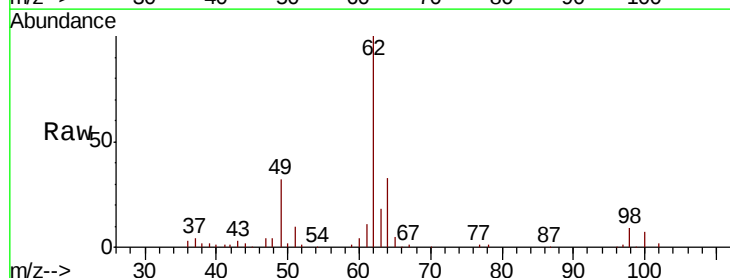
Manual Integrations
APPROVED

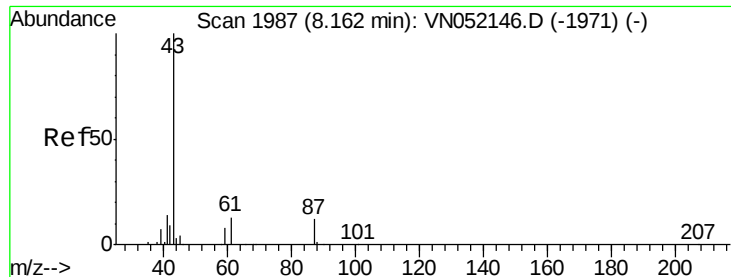
MMDadoda
11/8/2018 9:14:03 AM



#42
1,2-Dichloroethane
Concen: 19.767 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	62	Resp	101830
Ion Ratio	Lower	Upper	
62	100		
98	8.7	0.0	18.2





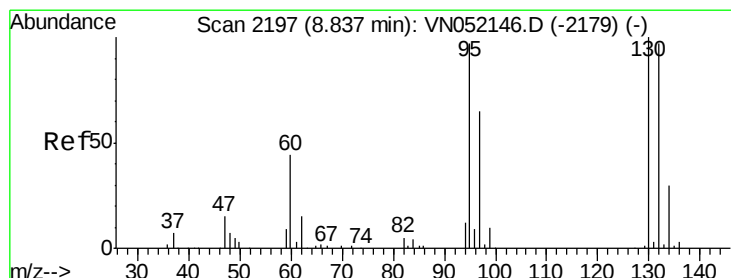
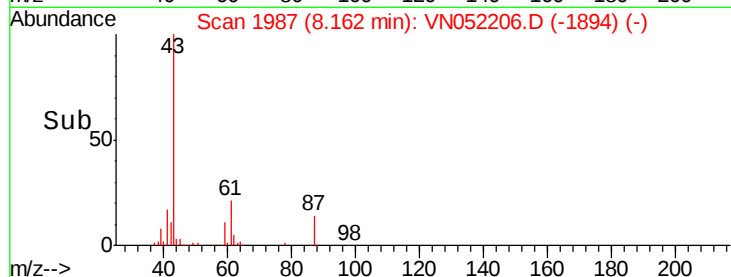
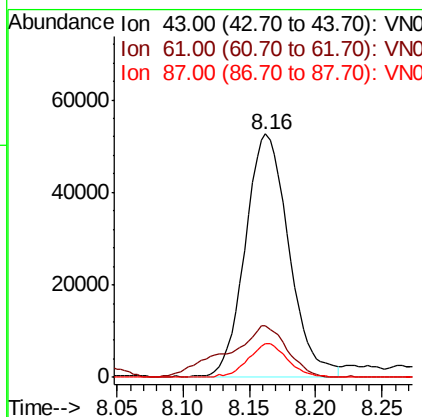
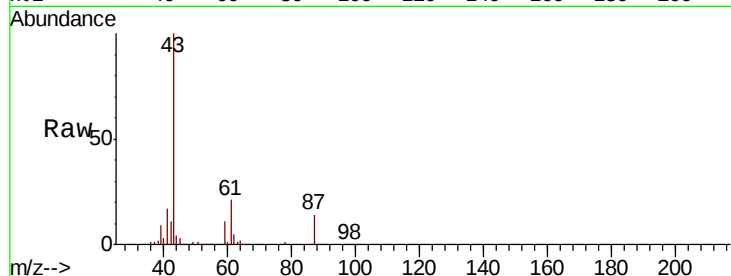
#43
Isopropyl Acetate
Concen: 19.508 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.7	21.5	32.3
87	12.5	10.2	15.2

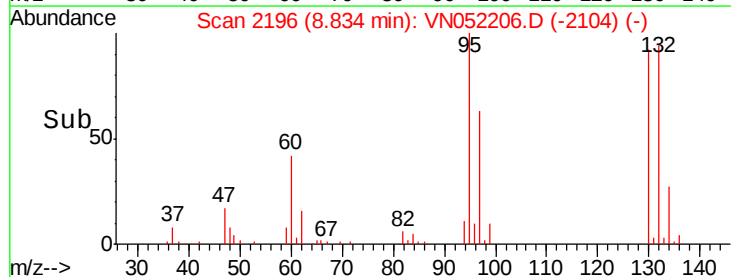
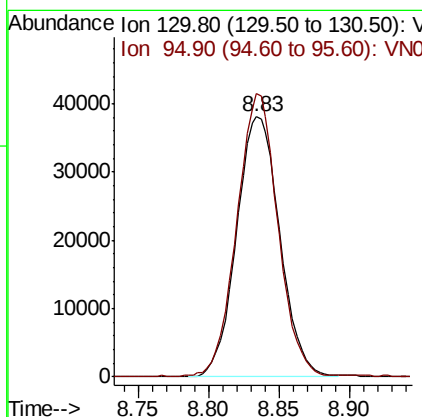
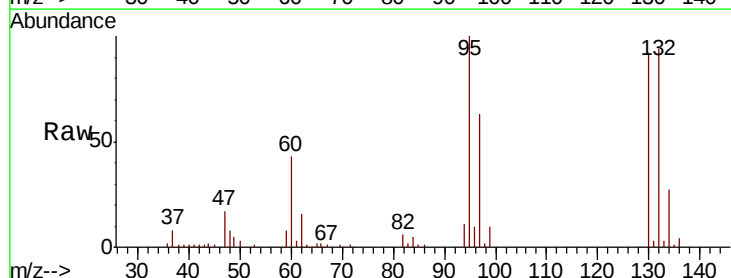
Manual Integrations
APPROVED

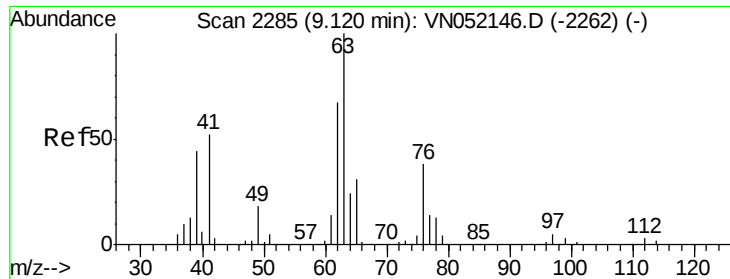
MMDadoda
11/8/2018 9:14:03 AM



#44
Trichloroethene
Concen: 19.260 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.4	0.0	193.8





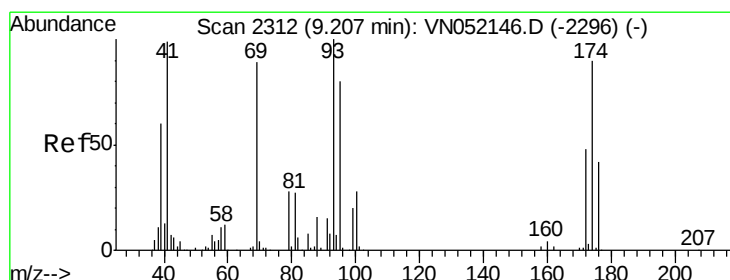
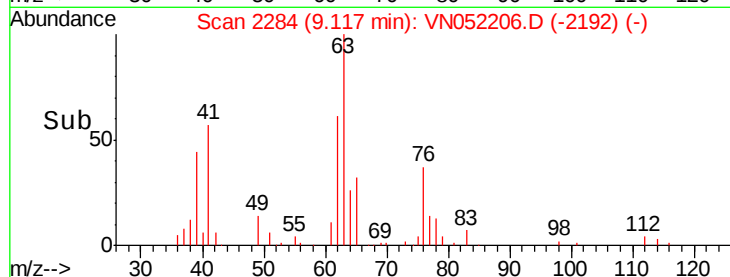
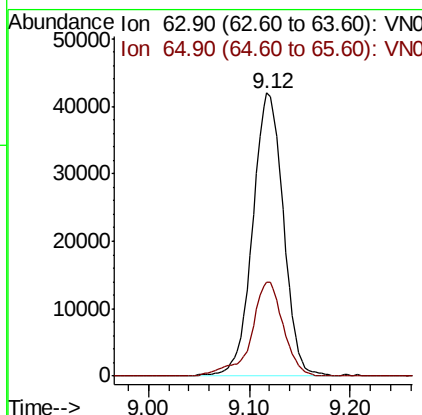
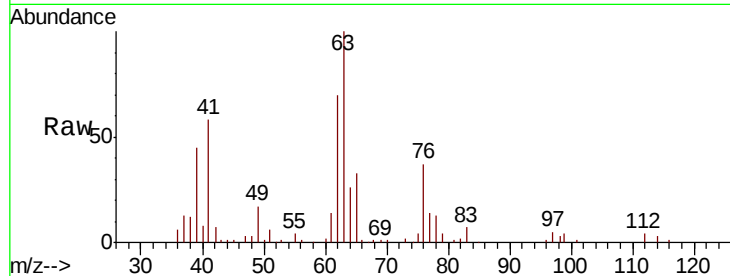
#45
 1,2-Dichloropropane
 Concen: 20.878 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion: 63 Resp: 88606
 Ion Ratio Lower Upper
 63 100
 65 33.1 24.4 36.6

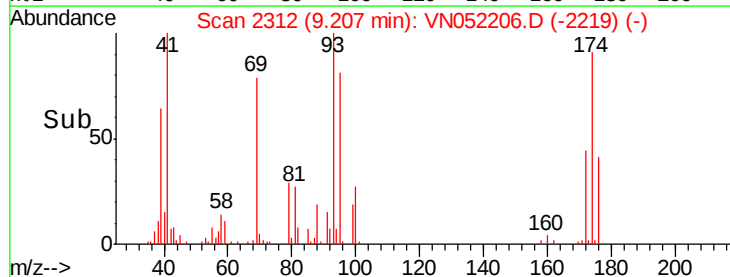
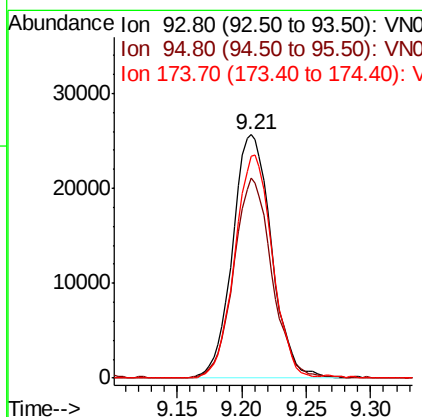
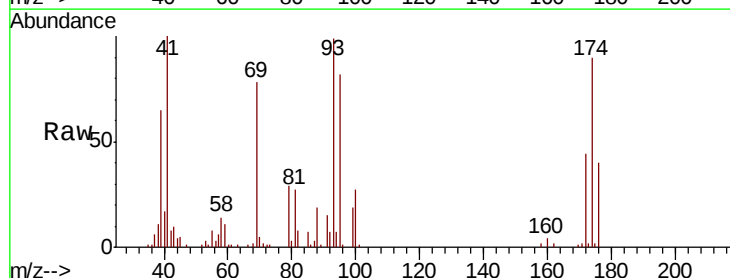
Manual Integrations
 APPROVED

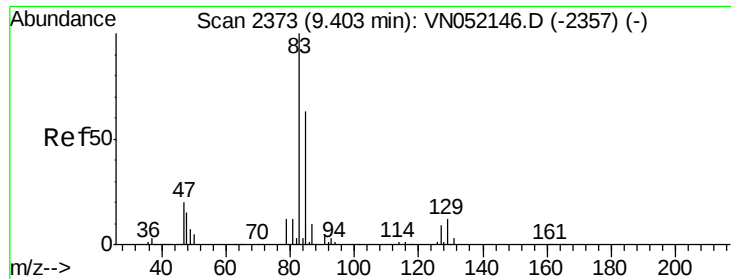
MMDadoda
 11/8/2018 9:14:03 AM



#46
 Dibromomethane
 Concen: 19.963 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion: 93 Resp: 53881
 Ion Ratio Lower Upper
 93 100
 95 80.5 64.5 96.7
 174 88.2 74.6 112.0





#47

Bromodichloromethane

Concen: 19.879 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

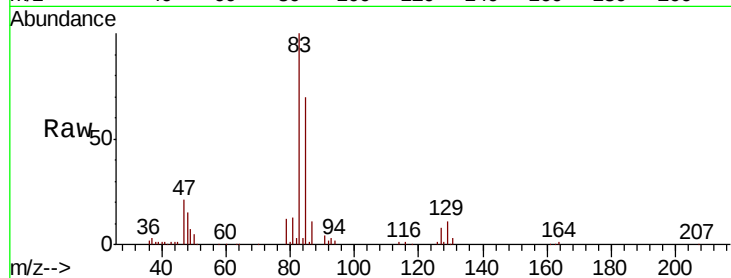
ClientSampleId :

VN1107WBS02

Tot Ion:	83	Resp:	104641
Ion Ratio	Lower	Upper	
83	100		
85	69.6	50.5	75.7
127	7.6	7.2	10.8

Manual Integrations
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MMDadoda
11/8/2018 9:14:03 AM

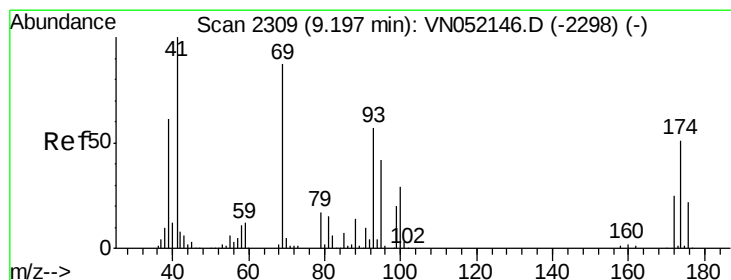
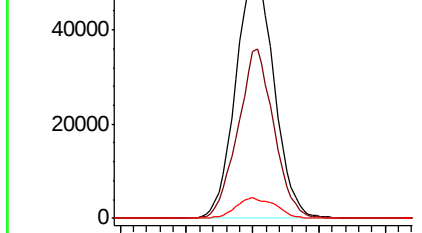
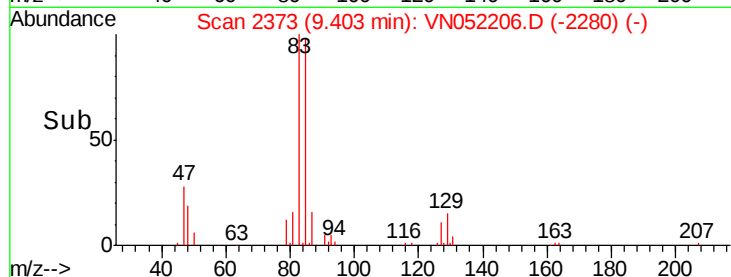


Abundance Ion 82.90 (82.60 to 83.60): VN052146.D (-2357) (-)

Ion 84.90 (84.60 to 85.60): VN052146.D (-2357) (-)

Ion 126.80 (126.50 to 127.50): VN052146.D (-2357) (-)

Time-->



#48

Methyl methacrylate

Concen: 20.286 ug/l

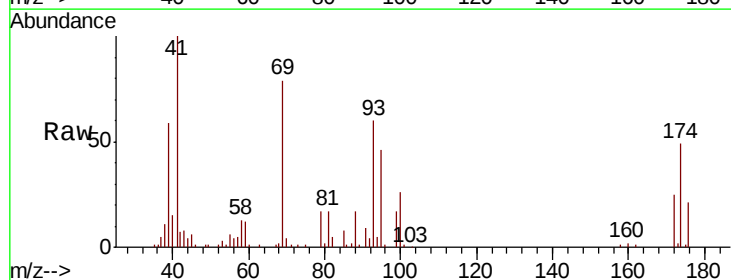
RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion:	41	Resp:	60730
Ion Ratio	Lower	Upper	
41	100		
69	83.1	69.7	104.5
39	62.4	50.6	76.0

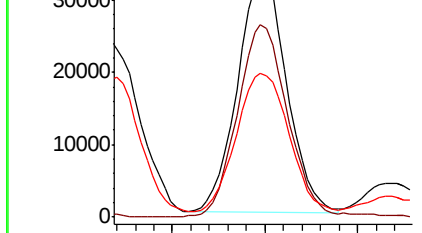
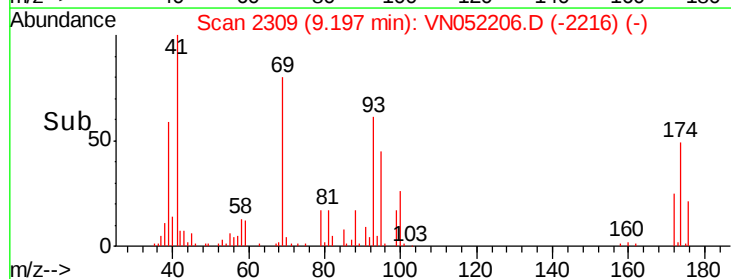


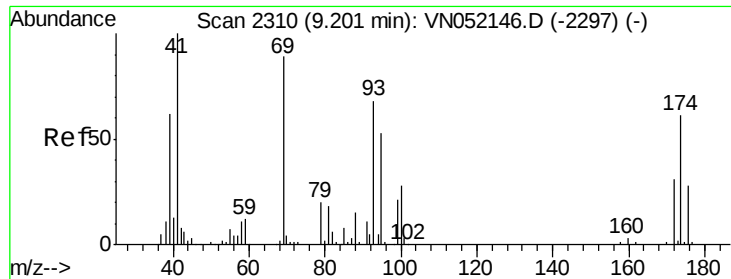
Abundance Ion 41.00 (40.70 to 41.70): VN052146.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN052146.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN052146.D (-2298) (-)

Time-->





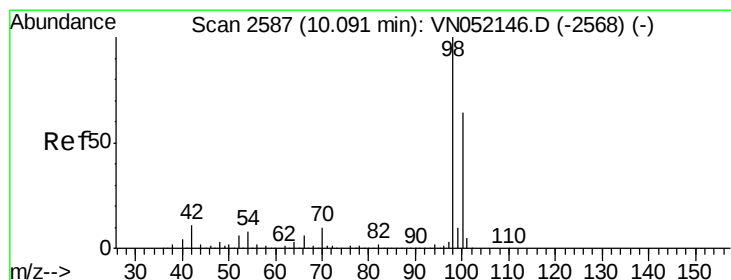
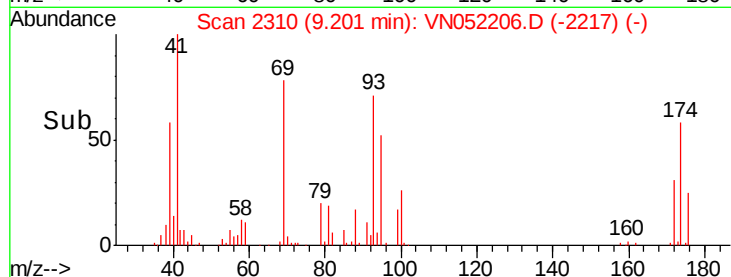
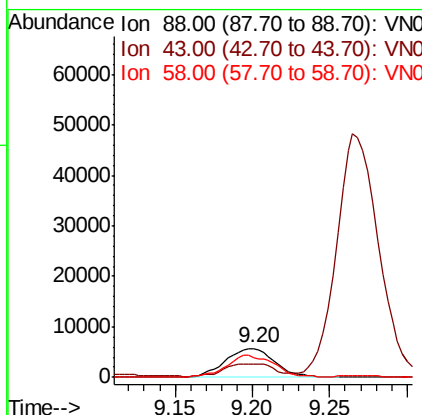
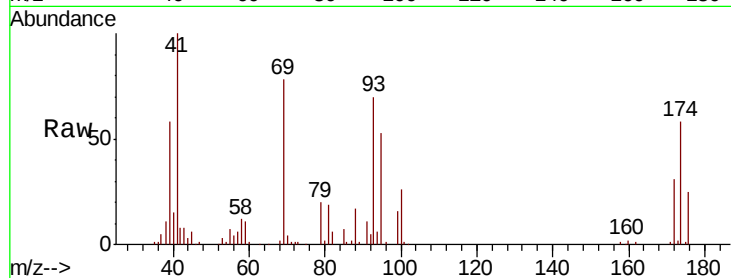
#49
1,4-Dioxane
Concen: 487.903 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	88	Resp	12616
Ion Ratio	100	Lower	Upper
88	100		
43	44.2	33.0	49.6
58	74.7	58.6	88.0

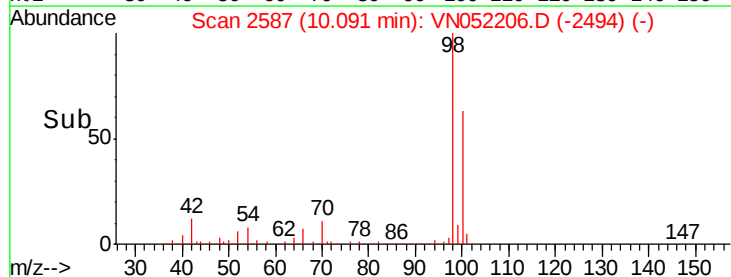
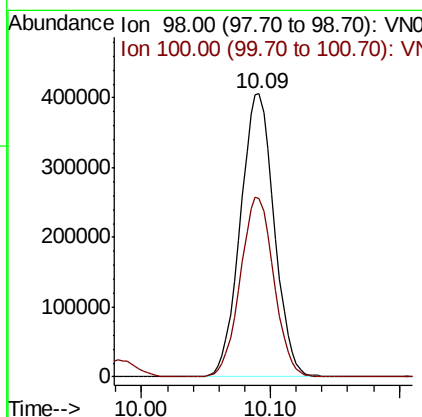
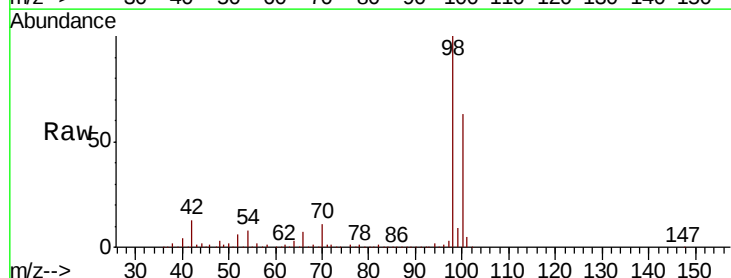
Manual Integrations
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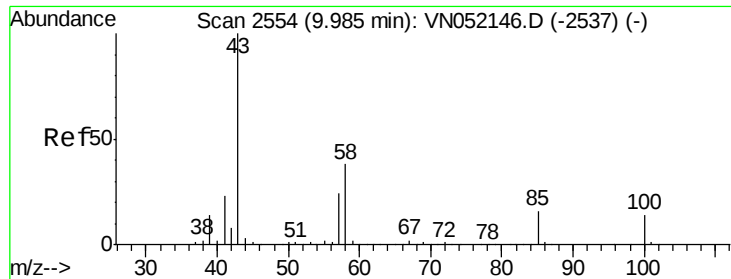
MMDadoda
11/8/2018 9:14:03 AM



#50
Toluene-d8
Concen: 487.903 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	98	Resp	741468
Ion Ratio	100	Lower	Upper
98	100		
100	62.9	50.5	75.7





#51

4-Methyl-2-Pentanone

Concen: 103.128 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion: 43 Resp: 338884

Ion Ratio Lower Upper

43 100

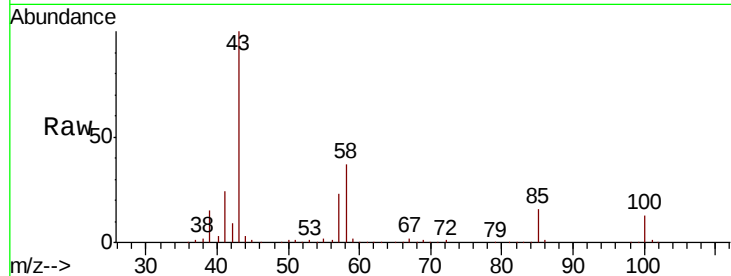
58 37.2 29.6 44.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052146.D (-2537) (-)

9.98

200000

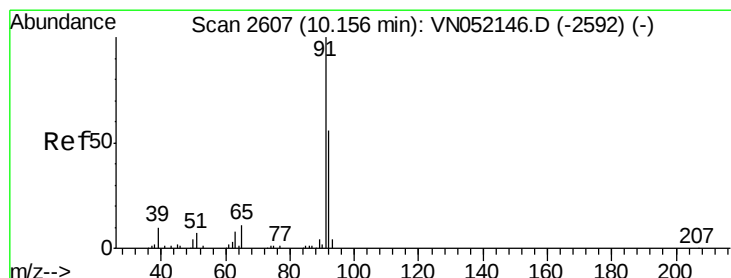
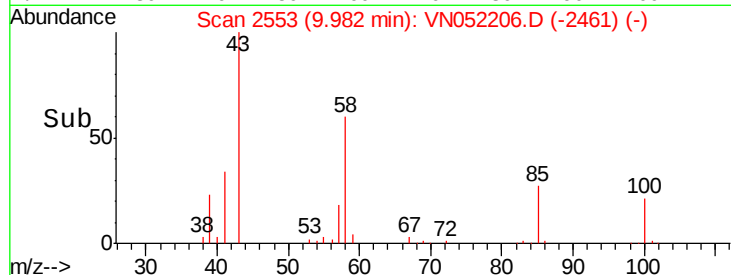
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.864 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052206.D

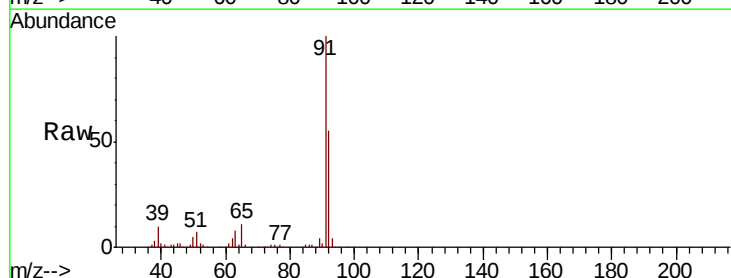
Acq: 7 Nov 2018 14:45

Tgt Ion: 92 Resp: 201619

Ion Ratio Lower Upper

92 100

91 179.1 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN052146.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN052146.D (-2592) (-)

10.16

200000

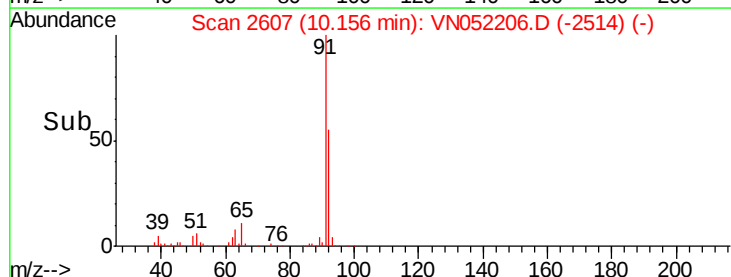
150000

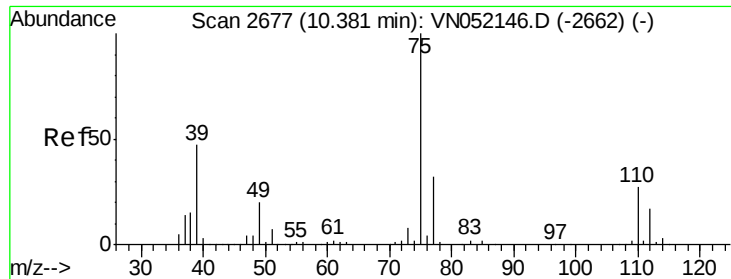
100000

50000

0

Time-->





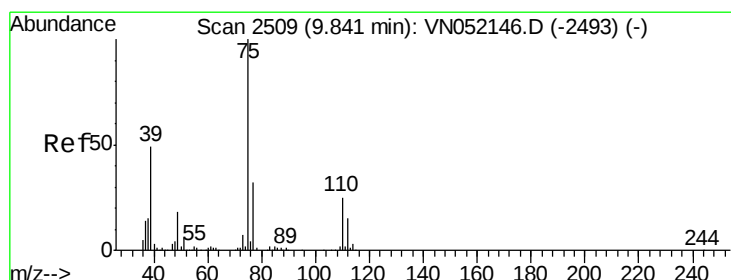
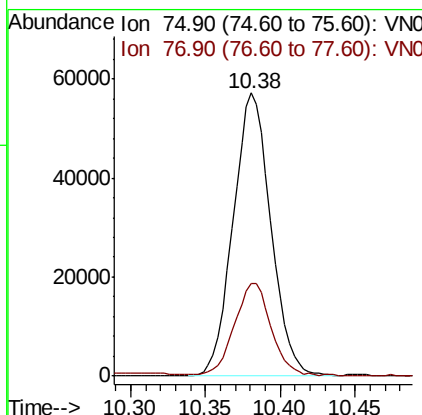
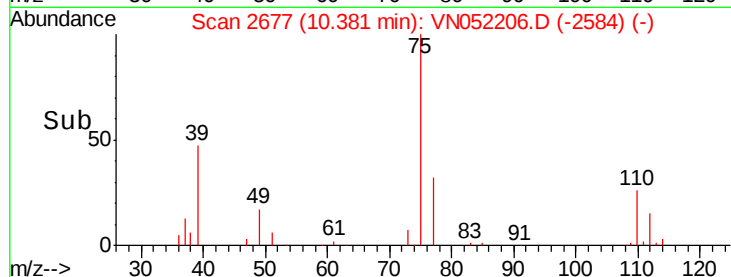
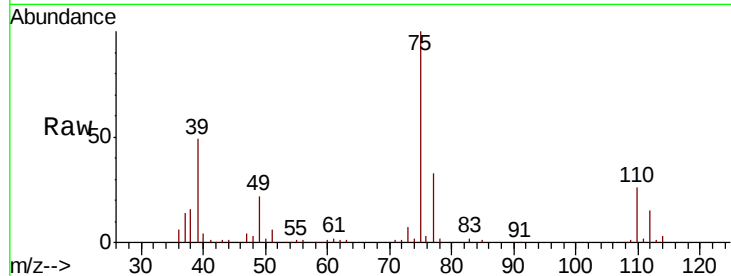
#53
t-1,3-Dichloropropene
Concen: 19.382 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion: 75 Resp: 100087
Ion Ratio Lower Upper
75 100
77 32.3 25.8 38.6

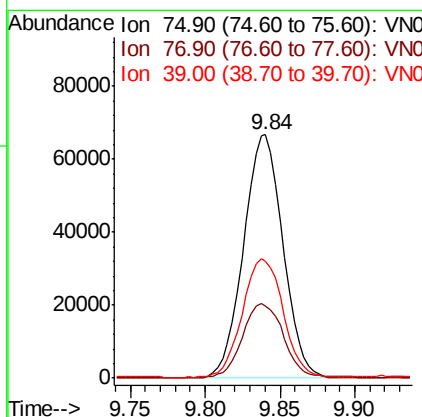
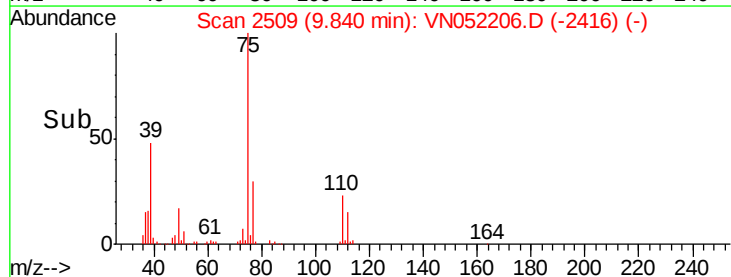
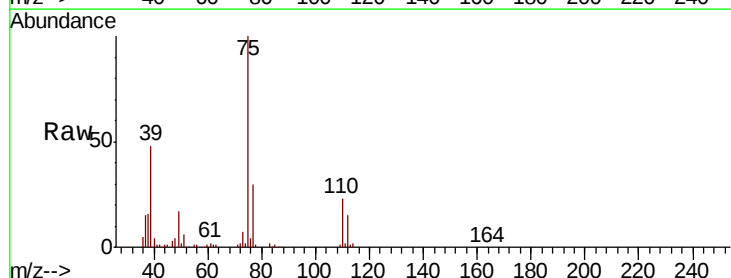
Manual Integrations
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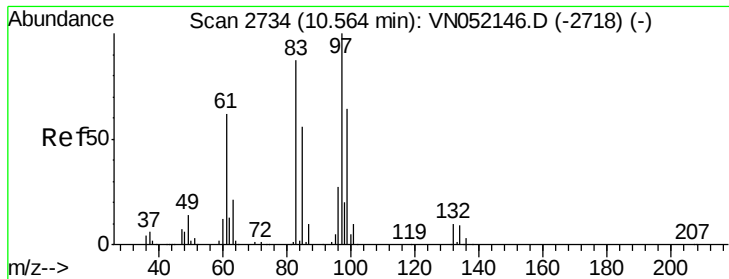
MMDadoda
11/8/2018 9:14:03 AM



#54
cis-1,3-Dichloropropene
Concen: 20.247 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion: 75 Resp: 122347
Ion Ratio Lower Upper
75 100
77 29.8 25.8 38.8
39 47.6 39.2 58.8





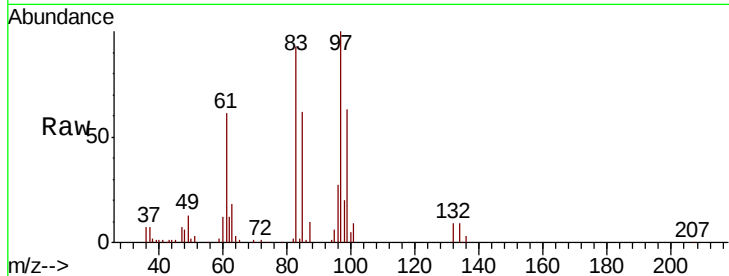
#55
1,1,2-Trichloroethane
Concen: 20.501 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	92.2	69.3	103.9	
85	62.5	44.9	67.3	
99	63.4	51.5	77.3	

Manual Integrations
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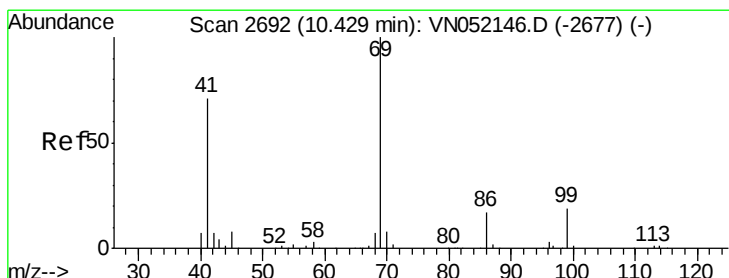
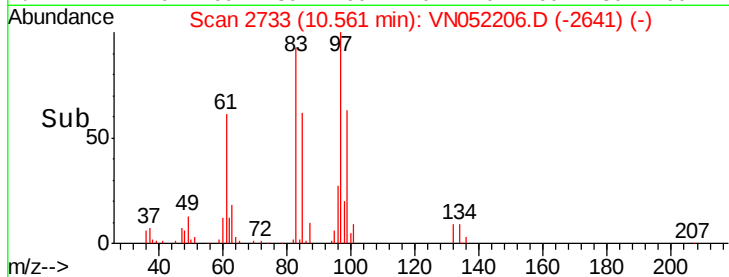
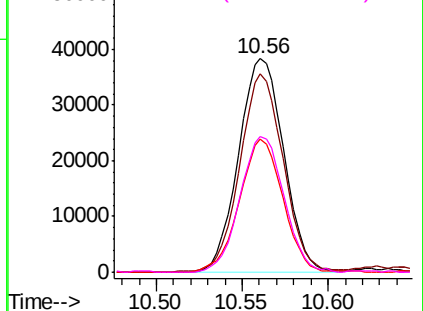
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

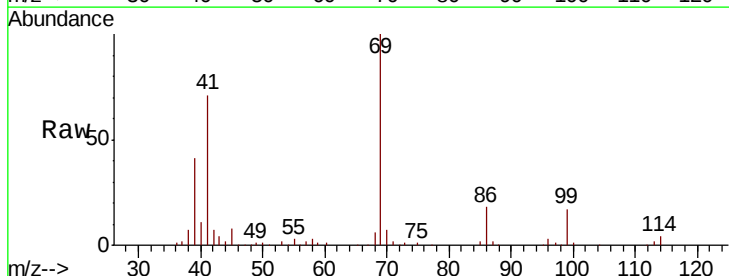
Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56
Ethyl methacrylate
Concen: 20.349 ug/l
RT: 10.43 min Scan# 2691
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	69.0	55.4	83.0	
39	38.9	32.0	48.0	

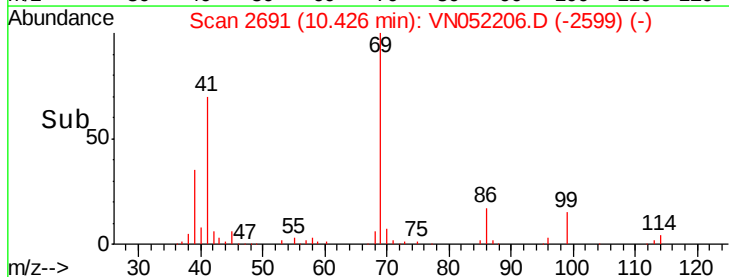
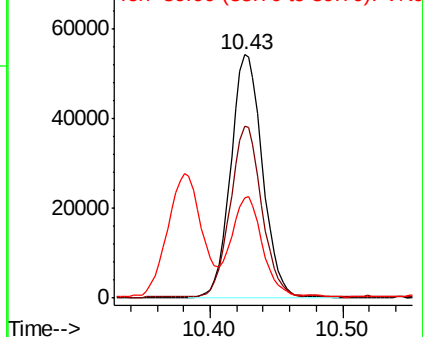


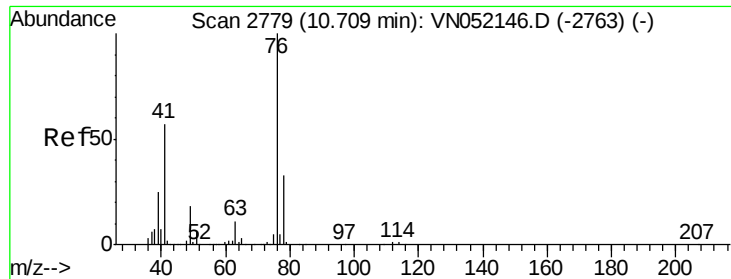
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





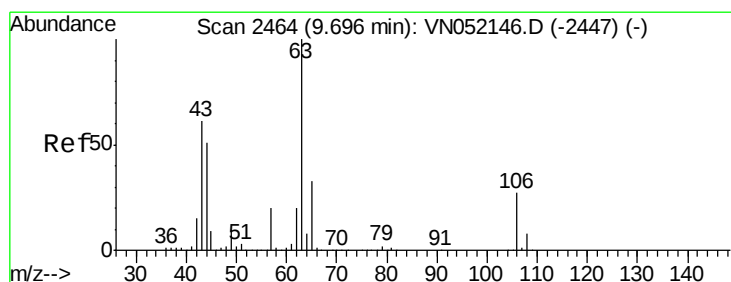
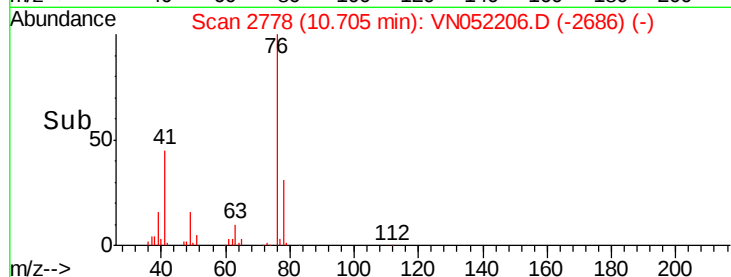
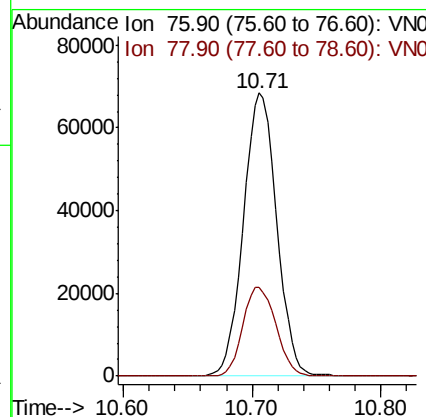
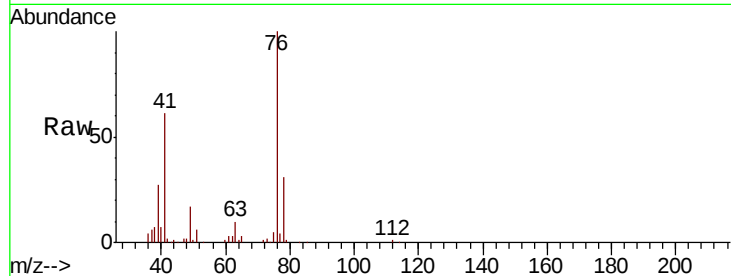
#57
 1,3-Dichloropropane
 Concen: 20.446 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.5	38.3

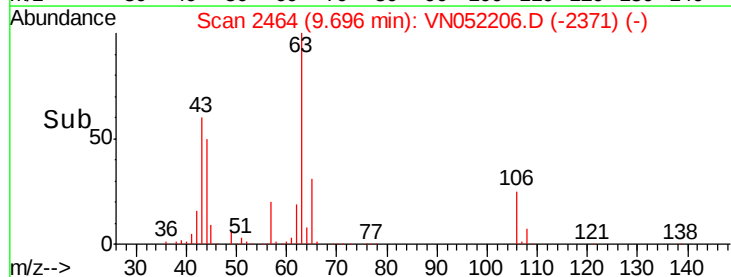
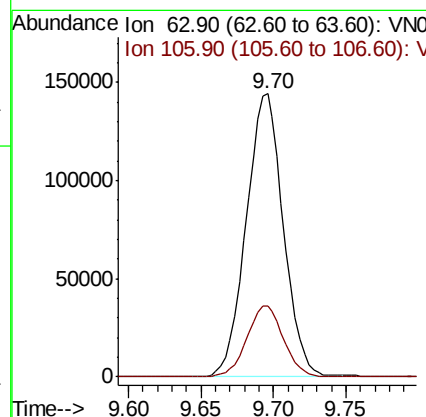
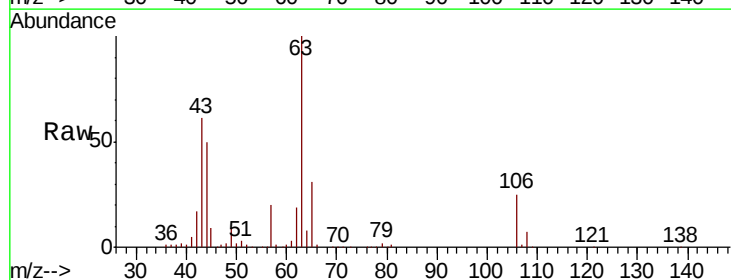
Manual Integrations
 APPROVED

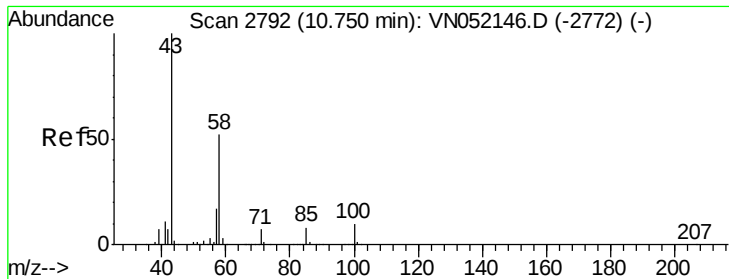
MMDadoda
 11/8/2018 9:14:03 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 107.296 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.7	21.0	31.4





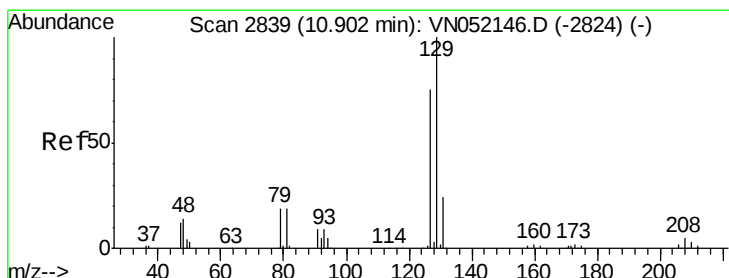
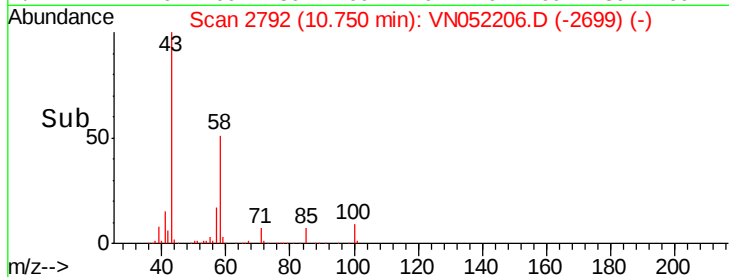
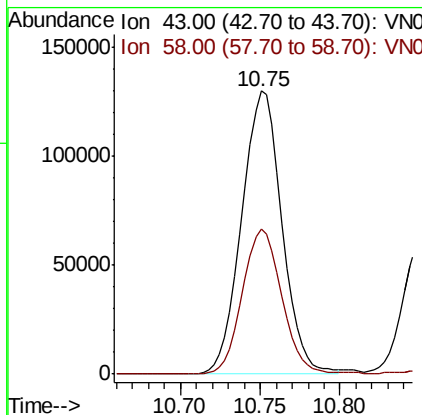
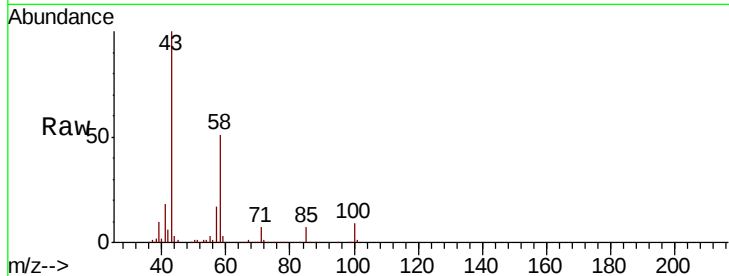
#59
2-Hexanone
Concen: 97.098 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	43	Resp	222112
Ion Ratio	43	100	
Lower	58	50.6	25.8
Upper			77.4

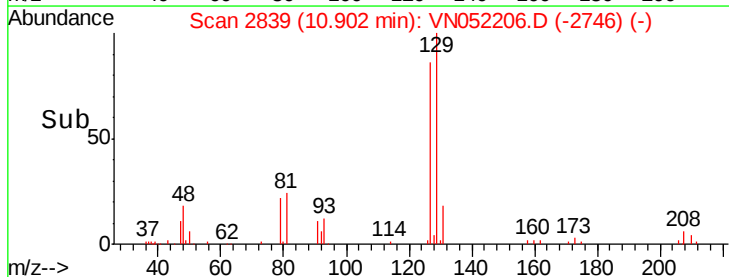
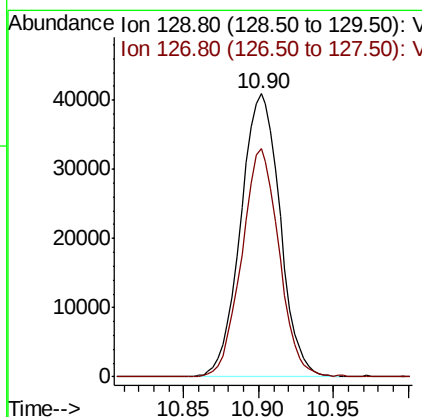
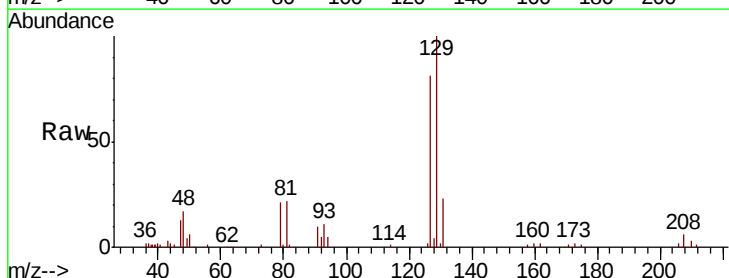
Manual Integrations
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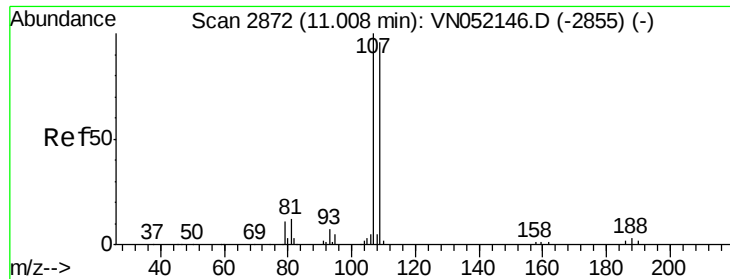
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#60
Dibromochloromethane
Concen: 19.341 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	129	Resp	74940
Ion Ratio	129	100	
Lower	127	76.4	38.0
Upper			114.1





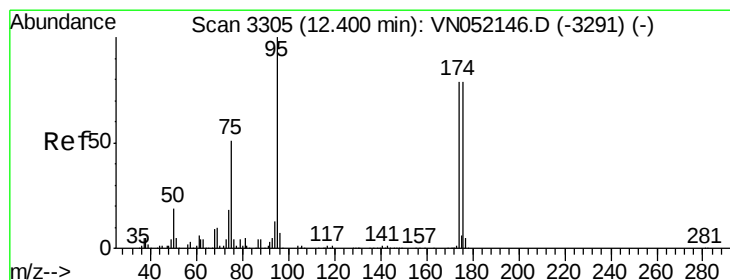
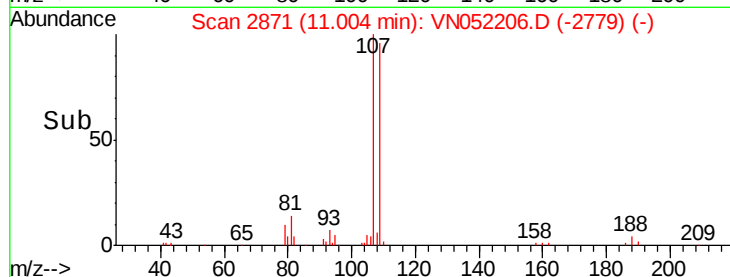
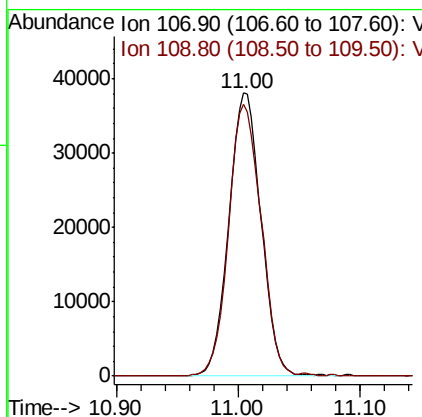
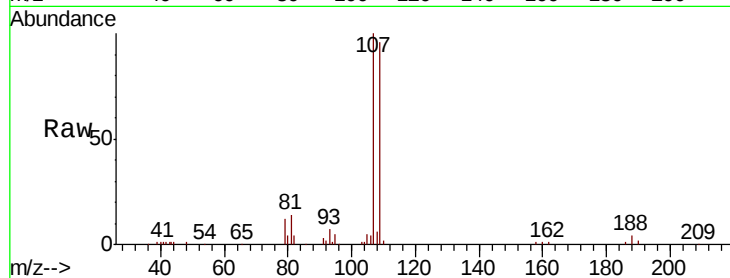
#61
 1,2-Dibromoethane
 Concen: 20.250 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.8	76.0	114.0

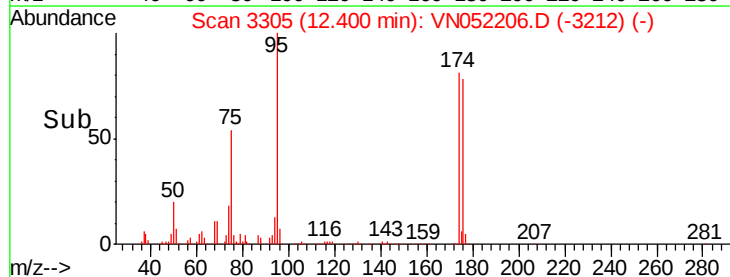
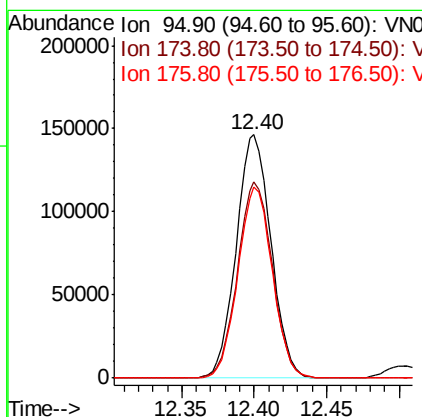
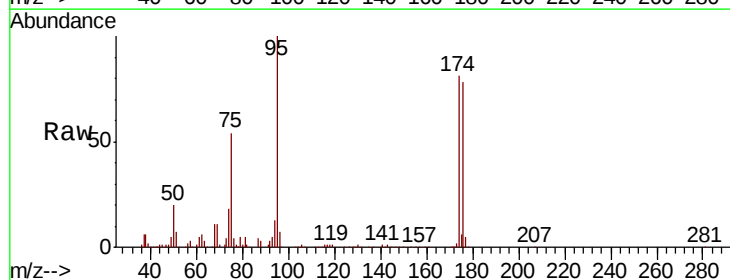
Manual Integrations
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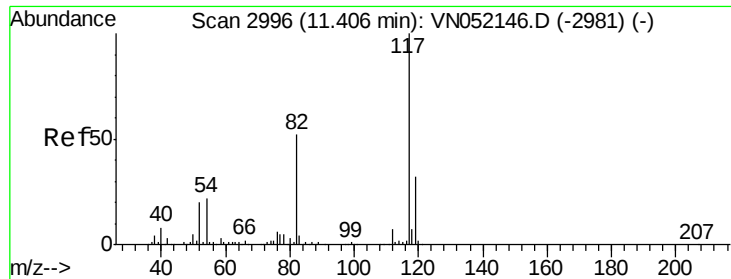
MMDadoda
 11/8/2018 9:14:03 AM



#62
 4-Bromofluorobenzene
 Concen: 20.250 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
95	100		
174	81.1	0.0	162.6
176	77.7	0.0	155.4





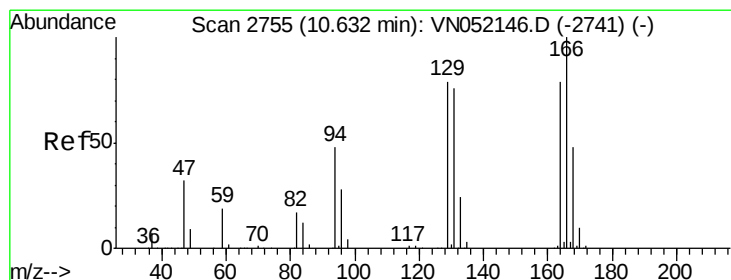
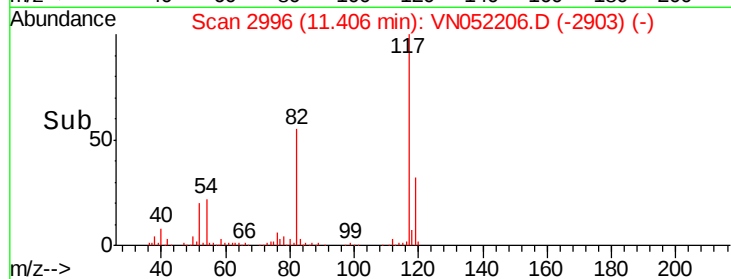
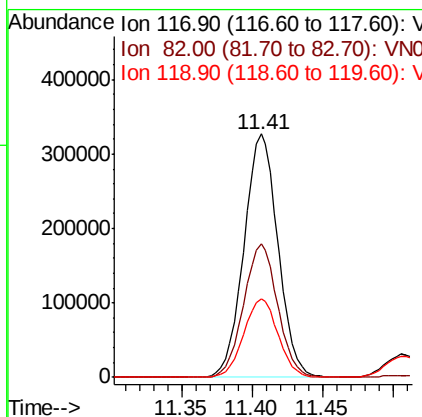
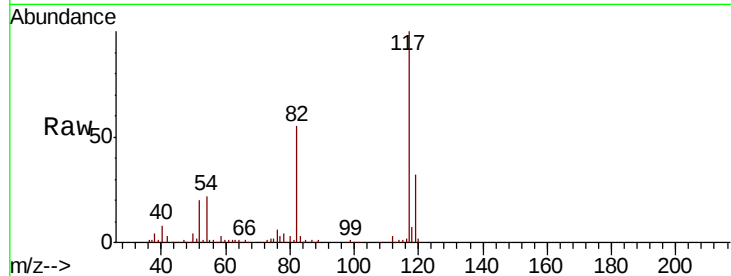
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	551188		
82	54.8		41.9	62.9
119	32.2		25.7	38.5

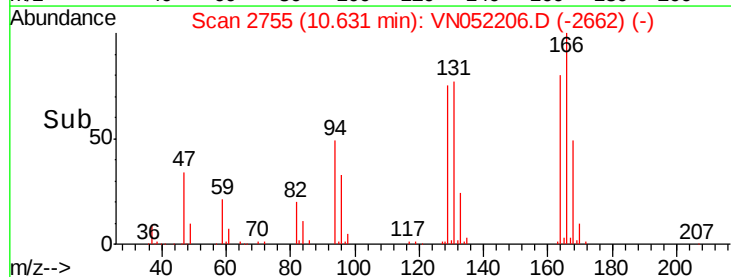
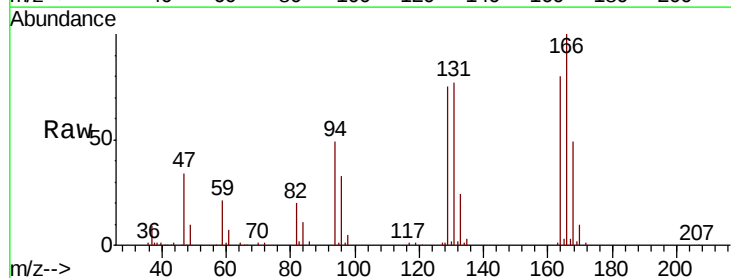
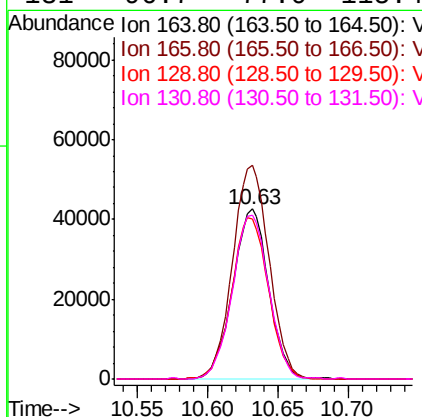
Manual Integrations
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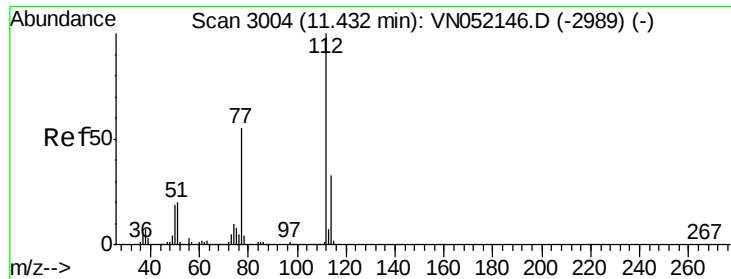
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#64
Tetrachloroethene
Concen: 21.321 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	76134		
166	125.7		100.8	151.2
129	94.0		79.1	118.7
131	96.7		77.0	115.4





#65

Chlorobenzene

Concen: 20.115 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion:112 Resp: 225982

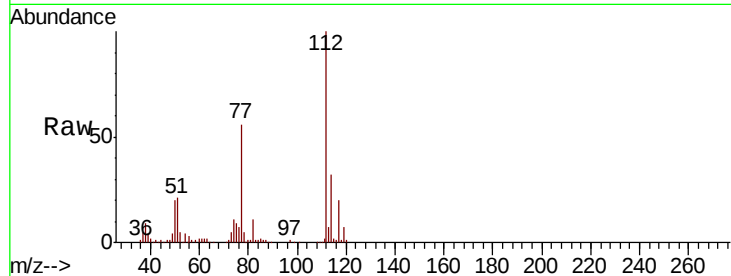
Ion Ratio Lower Upper

112 100

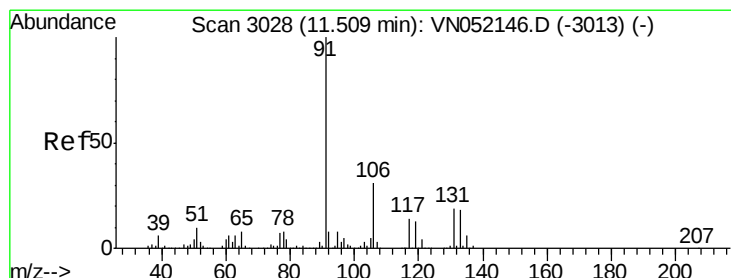
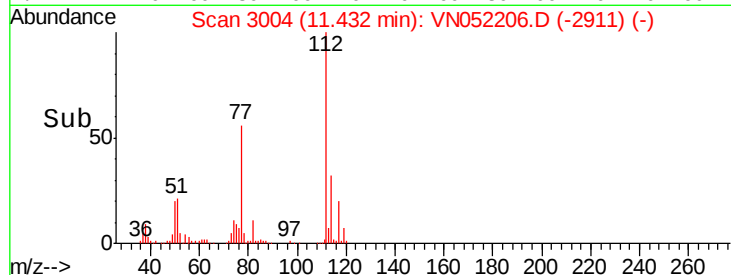
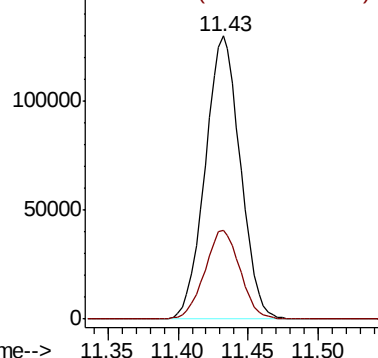
114 31.6 26.2 39.4

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Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.887 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

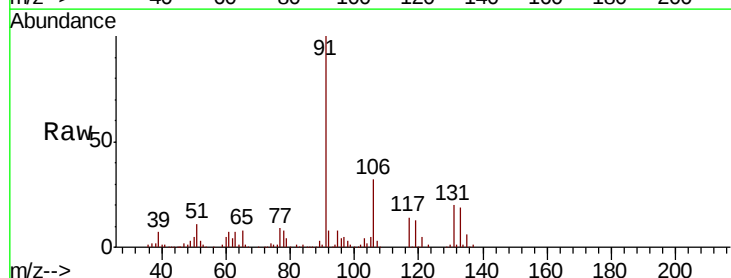
Tgt Ion:131 Resp: 78803

Ion Ratio Lower Upper

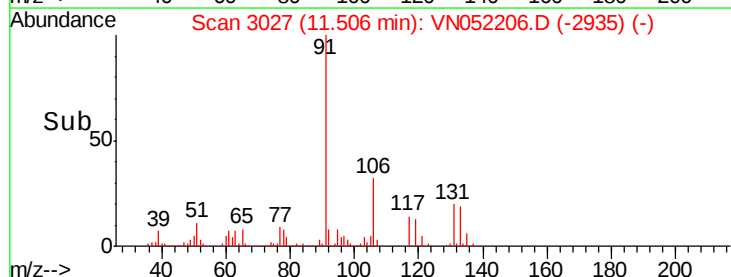
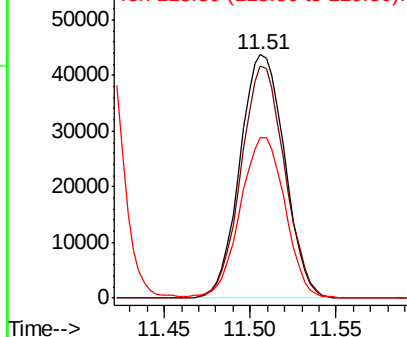
131 100

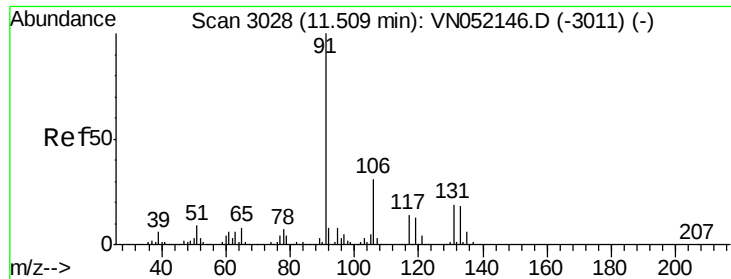
133 93.3 46.6 139.8

119 66.2 33.6 100.8



Abundance Ion 130.80 (130.50 to 131.50): V
Ion 132.80 (132.50 to 133.50): V
Ion 118.80 (118.50 to 119.50): V





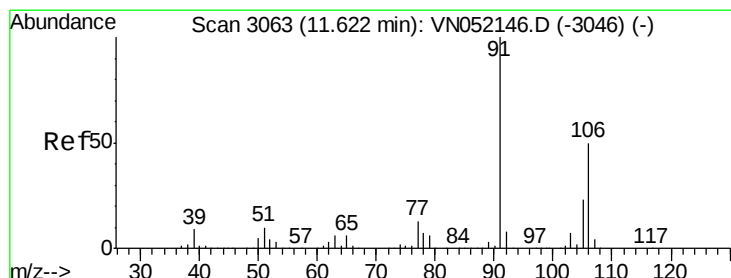
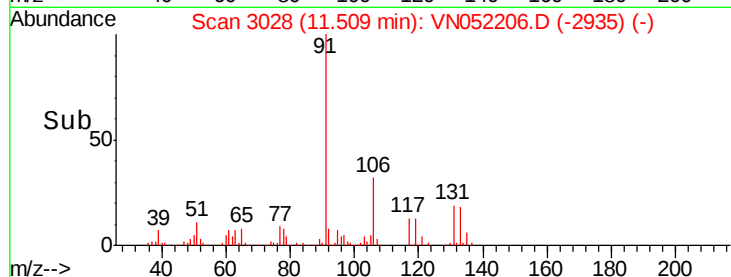
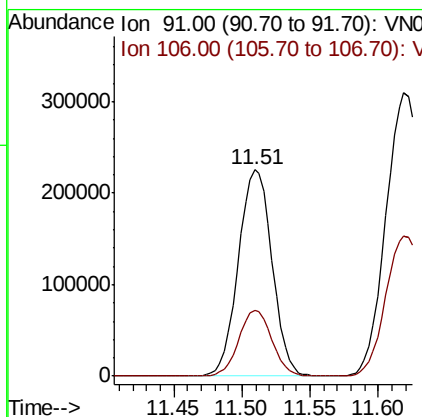
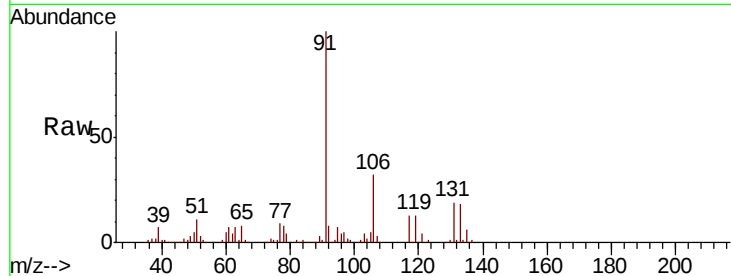
#67
Ethyl Benzene
Concen: 20.677 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion: 91 Resp: 385825
Ion Ratio Lower Upper
91 100
106 32.2 25.1 37.7

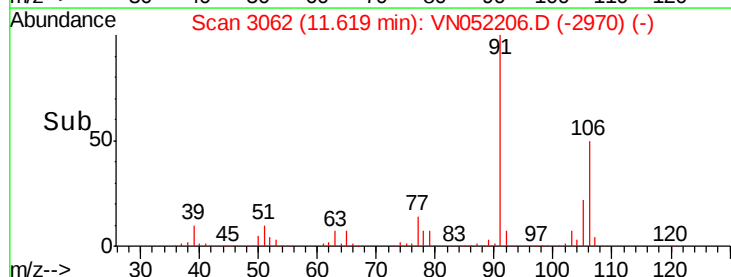
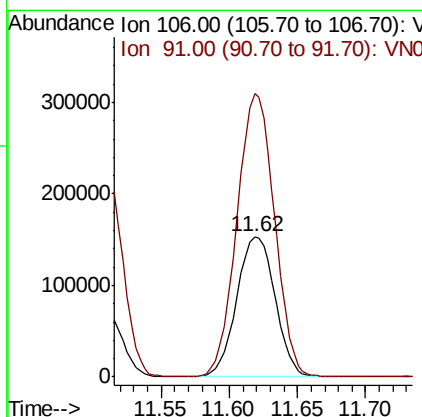
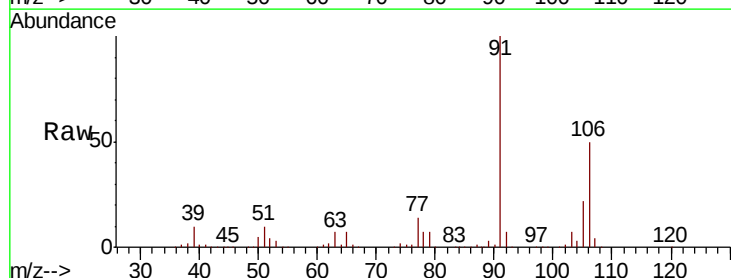
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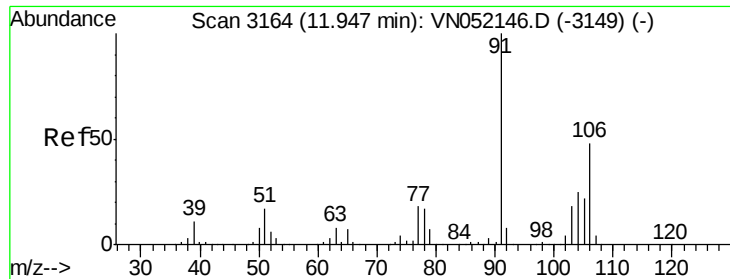
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#68
m/p-Xylenes
Concen: 41.563 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion: 106 Resp: 299254
Ion Ratio Lower Upper
106 100
91 197.7 158.2 237.4





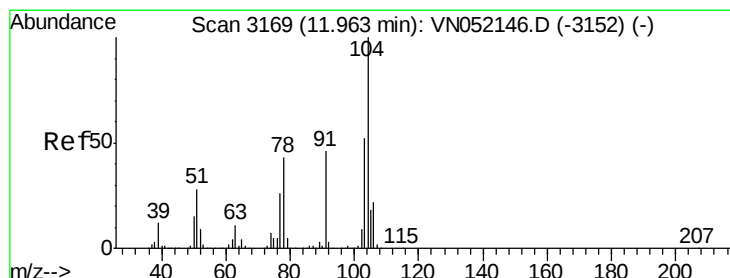
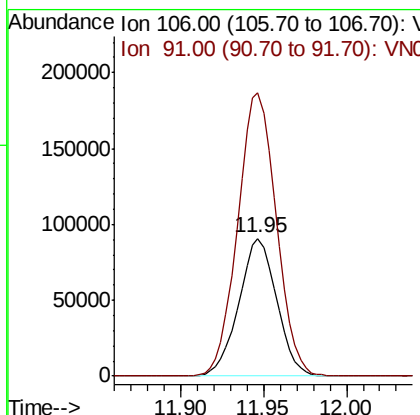
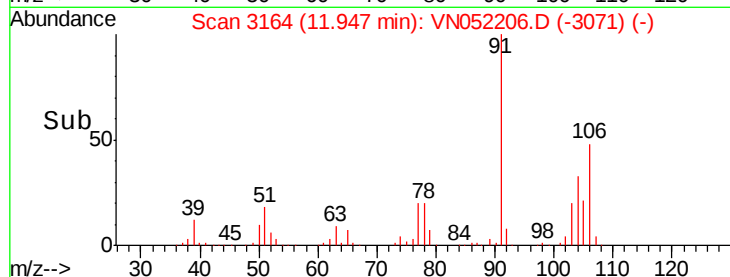
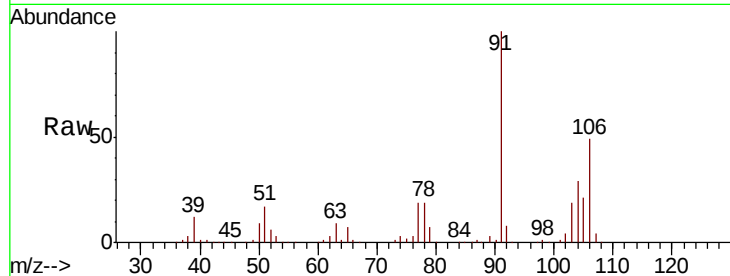
#69
o-Xylene
Concen: 20.626 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampled :
VN1107WBS02

Tot Ion:106 Resp: 144025
Ion Ratio Lower Upper
106 100
91 210.0 104.8 314.3

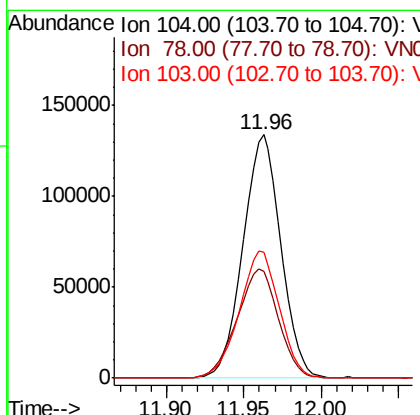
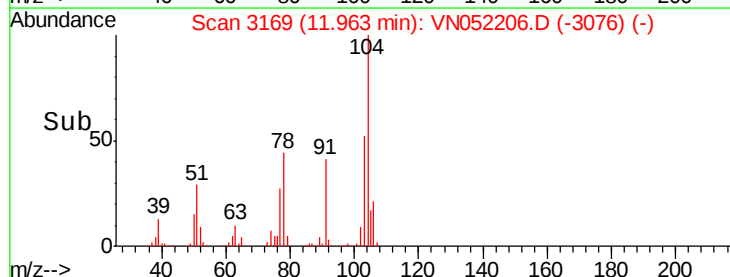
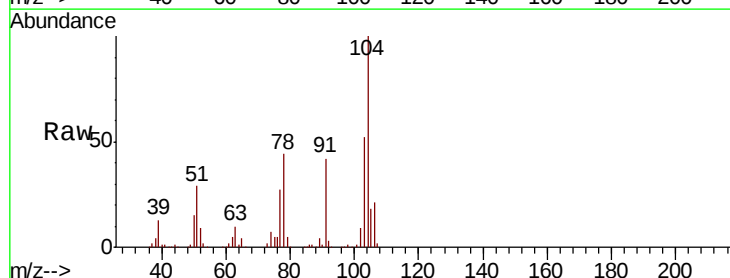
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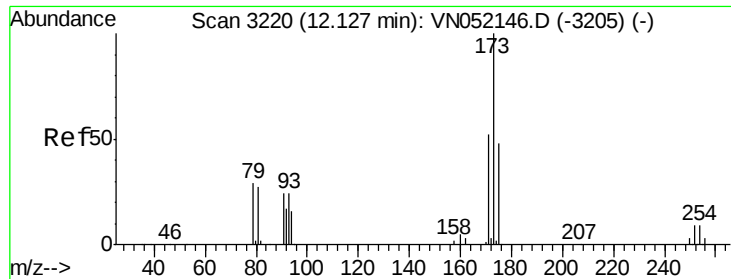
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#70
Styrene
Concen: 20.644 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion:104 Resp: 228194
Ion Ratio Lower Upper
104 100
78 49.2 39.4 59.0
103 55.1 45.1 67.7





#71

Bromoform

Concen: 18.854 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion:173 Resp: 42792

Ion Ratio Lower Upper

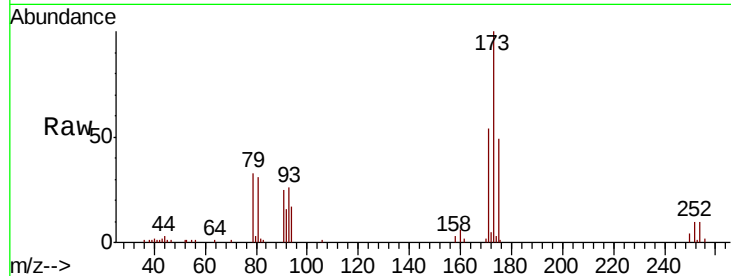
173 100

175 48.9 24.8 74.4

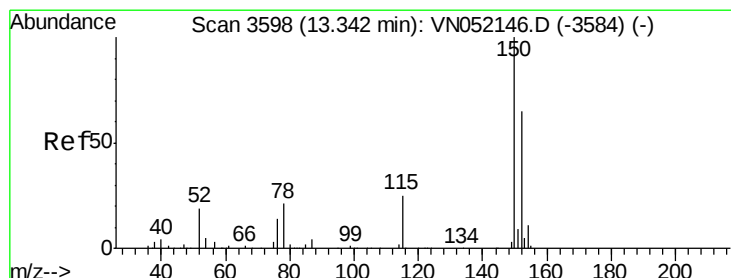
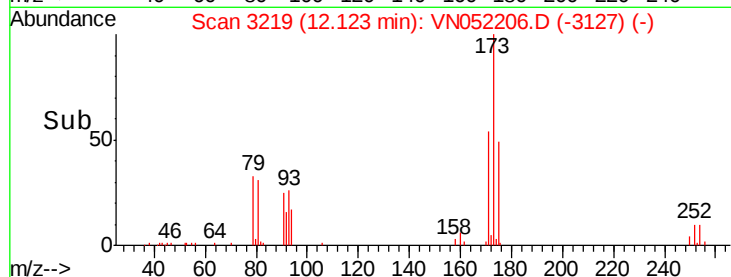
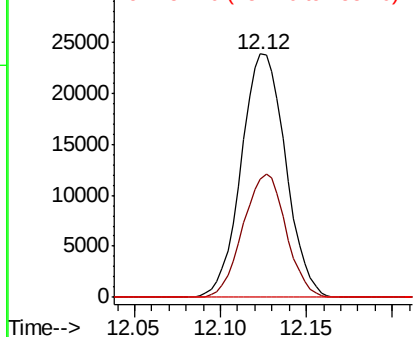
254 0.0 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

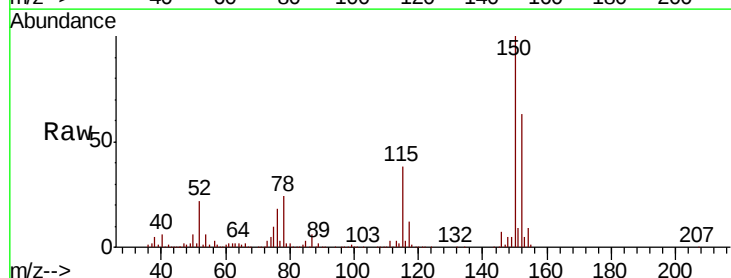
Tgt Ion:152 Resp: 246265

Ion Ratio Lower Upper

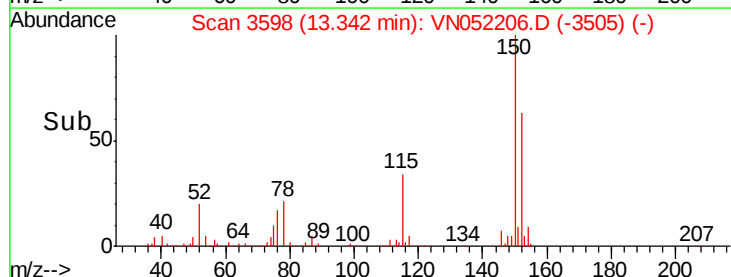
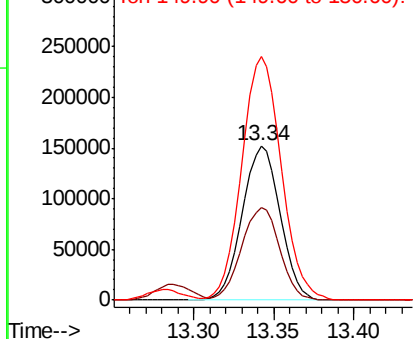
152 100

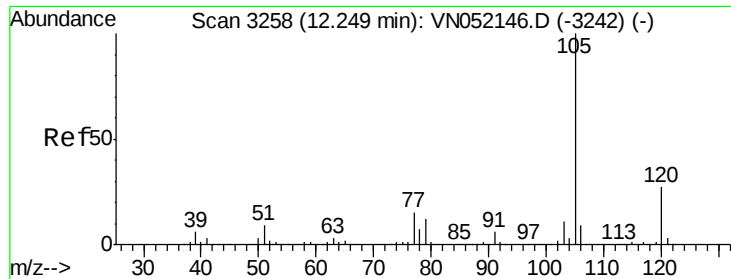
115 60.1 28.5 85.5

150 164.1 0.0 348.6



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





#73

Isopropylbenzene

Concen: 20.733 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion:105 Resp: 386043

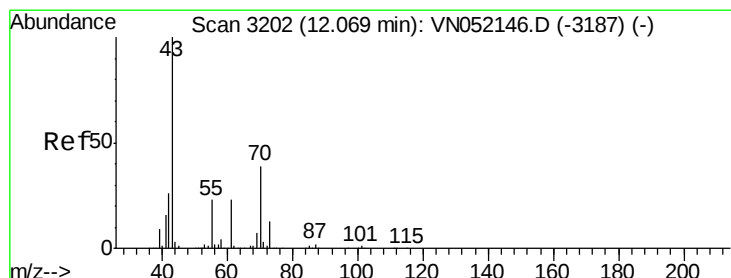
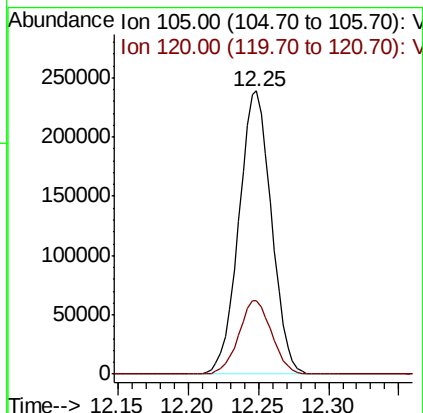
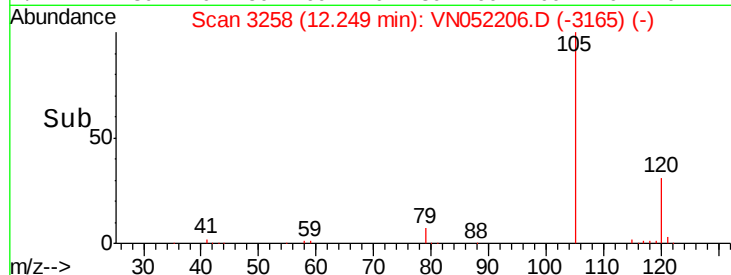
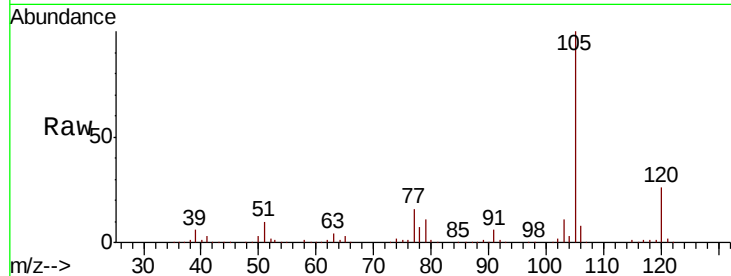
Ion Ratio Lower Upper

105 100

120 26.2 13.3 39.9

Manual Integrations
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#74

N-ethyl acetate

Concen: 20.235 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion: 43 Resp: 111807

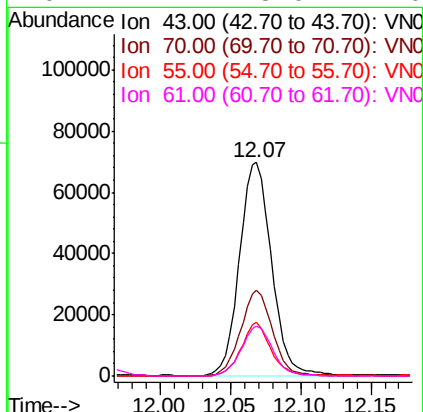
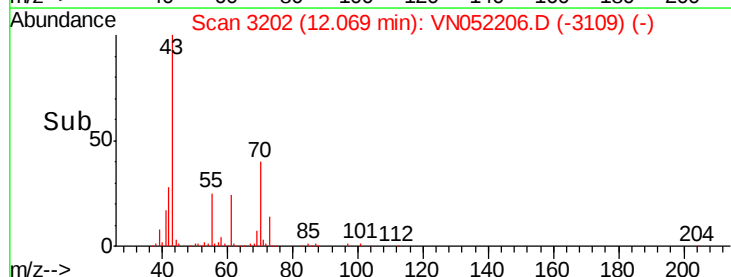
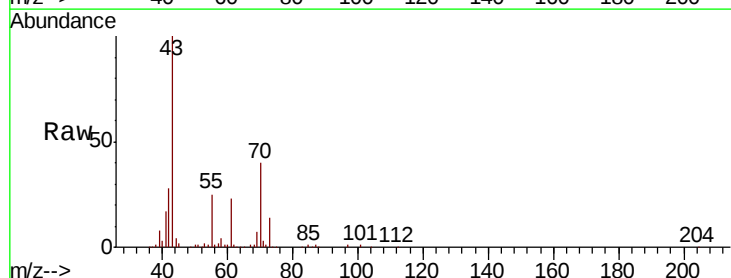
Ion Ratio Lower Upper

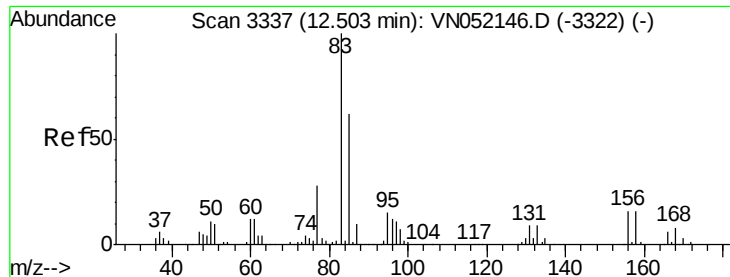
43 100

70 39.8 31.1 46.7

55 23.1 18.5 27.7

61 22.7 18.0 27.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.879 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

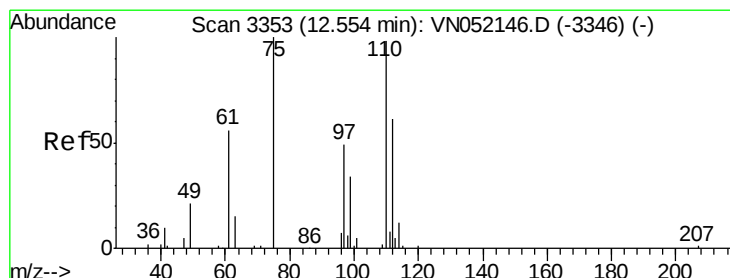
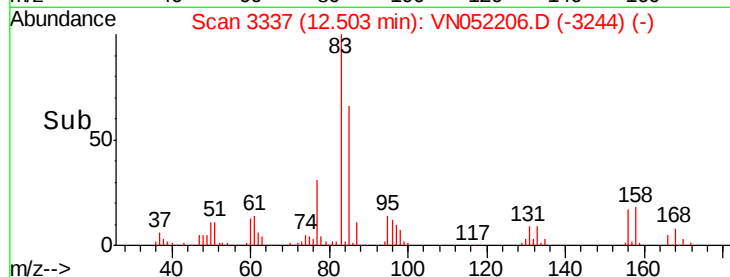
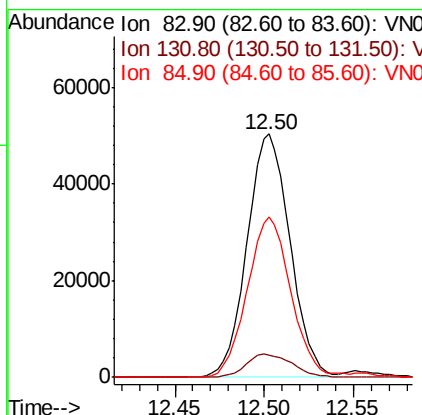
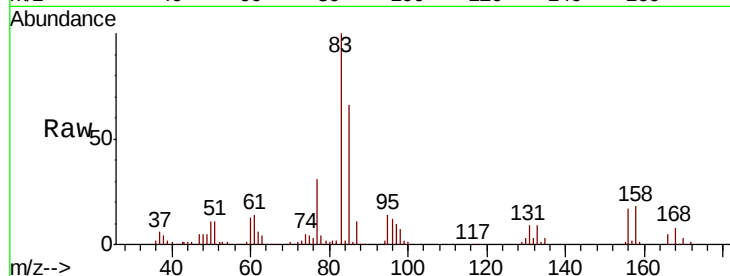
ClientSampleId :

VN1107WBS02

Tot Ion:	83	Resp:	85098
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	14.9
85	66.6	31.8	95.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 15.928 ug/l m

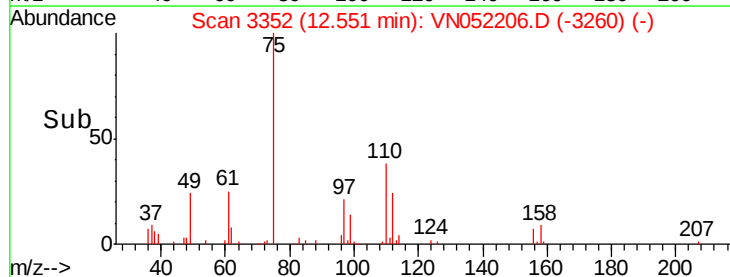
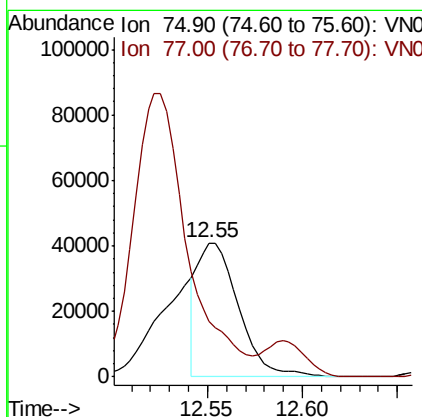
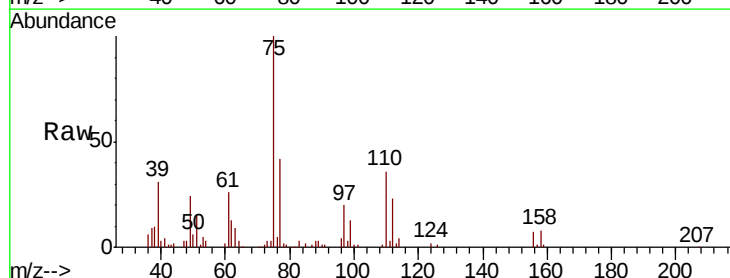
RT: 12.55 min Scan# 3352

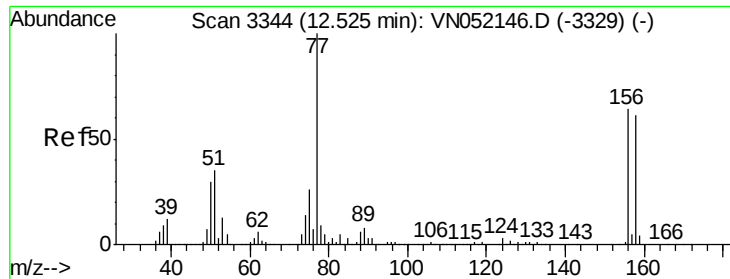
Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion:	75	Resp:	61728
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.808 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

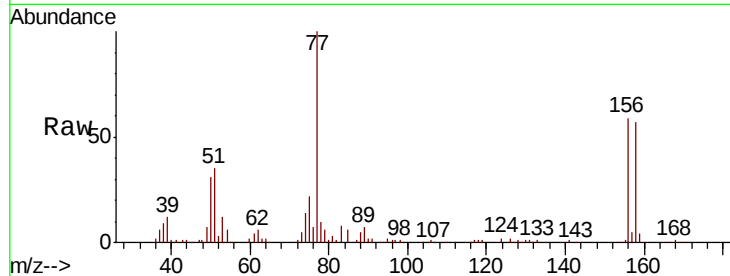
ClientSampleId :

VN1107WBS02

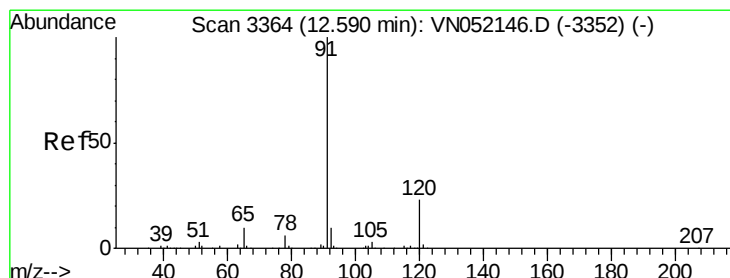
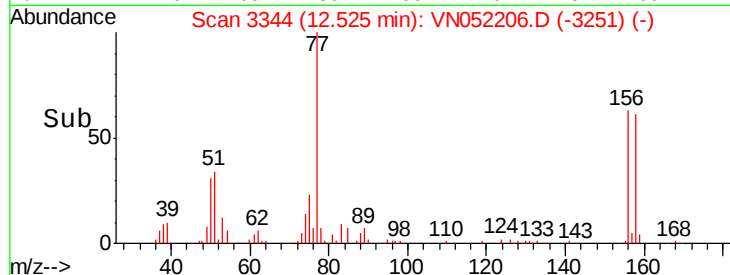
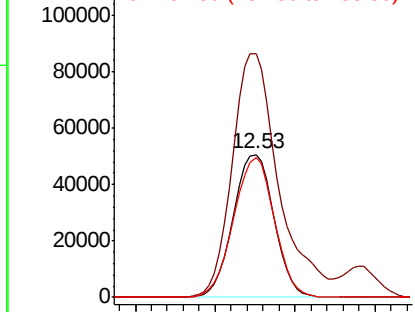
Tot Ion:	156	Resp:	87951
Ion Ratio	Lower	Upper	
156	100		
77	195.9	91.6	274.9
158	98.0	48.1	144.3

Manual Integrations
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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: 20.660 ug/l

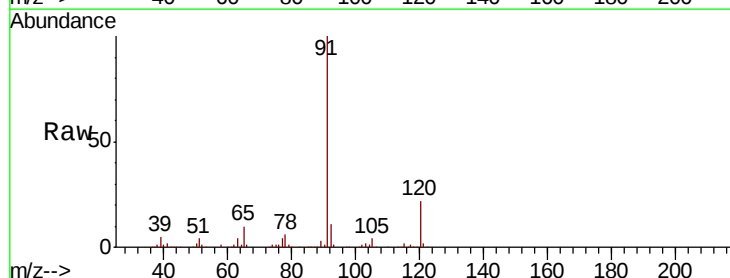
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

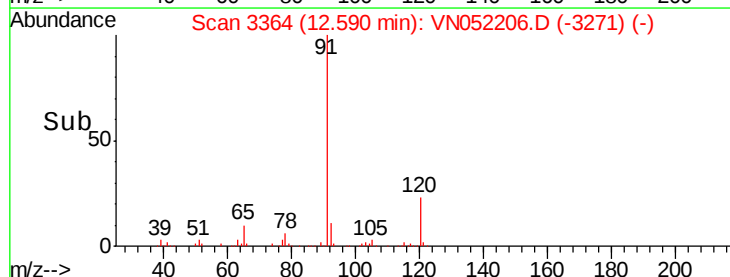
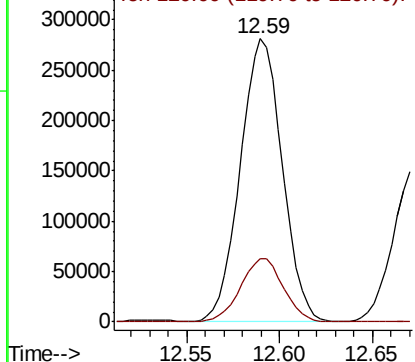
Lab File: VN052206.D

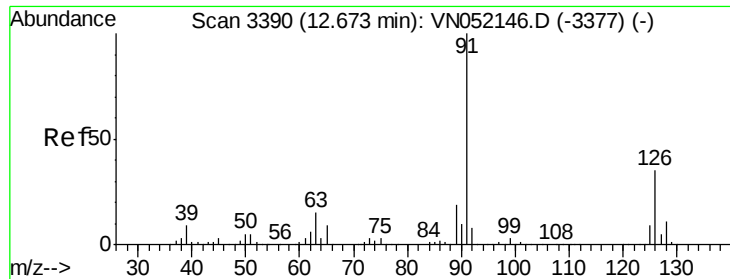
Acq: 7 Nov 2018 14:45

Tgt Ion:	91	Resp:	439640
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.9	35.7



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





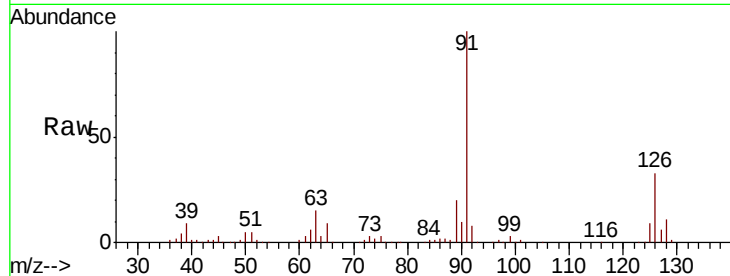
#79
2-Chlorotoluene
Concen: 20.051 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

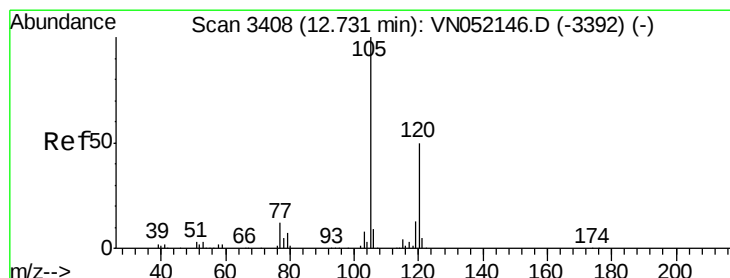
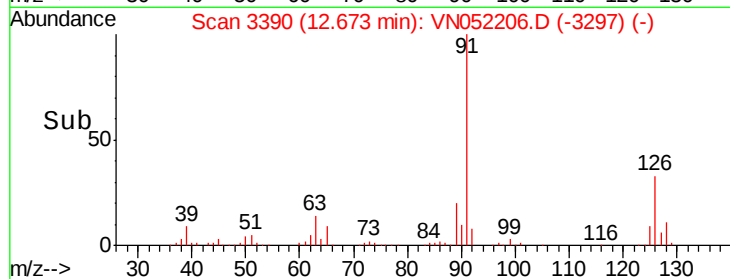
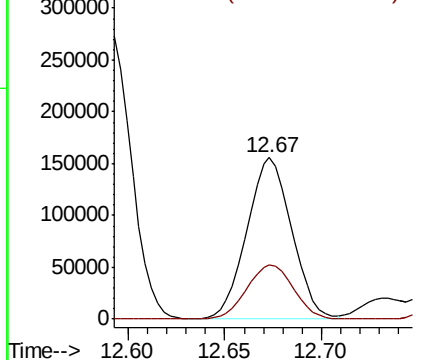
Tot Ion: 91 Resp: 250207
Ion Ratio Lower Upper
91 100
126 35.1 18.0 54.0

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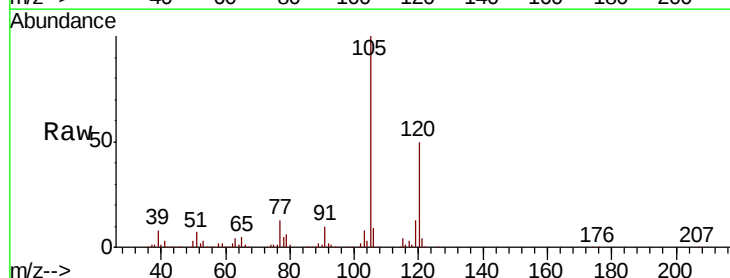


Abundance Ion 91.00 (90.70 to 91.70): VN052146.D (-3377) (-)
Ion 125.90 (125.60 to 126.60): VN052146.D (-3377) (-)

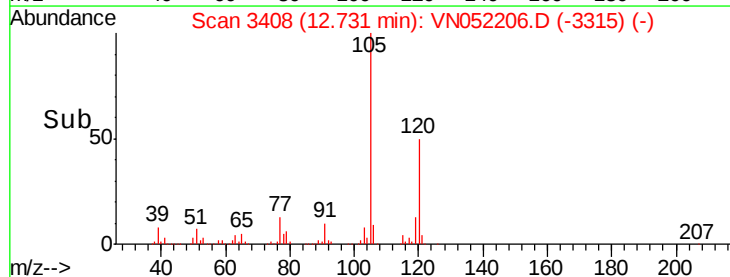
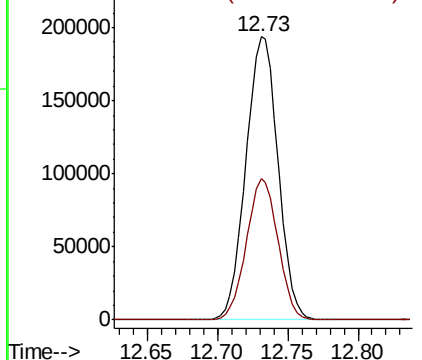


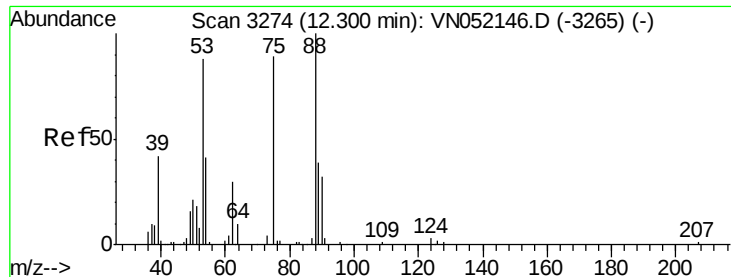
#80
1,3,5-Trimethylbenzene
Concen: 20.580 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion: 105 Resp: 310176
Ion Ratio Lower Upper
105 100
120 49.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN052146.D (-3392) (-)
Ion 120.00 (119.70 to 120.70): VN052146.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.836 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

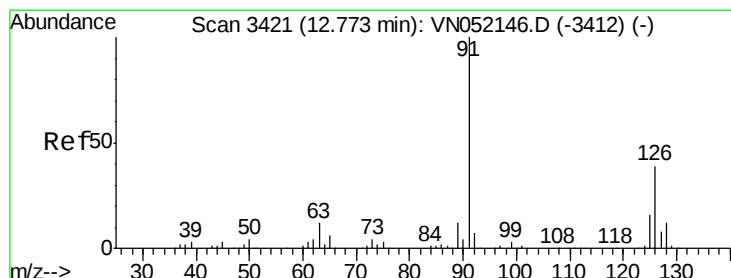
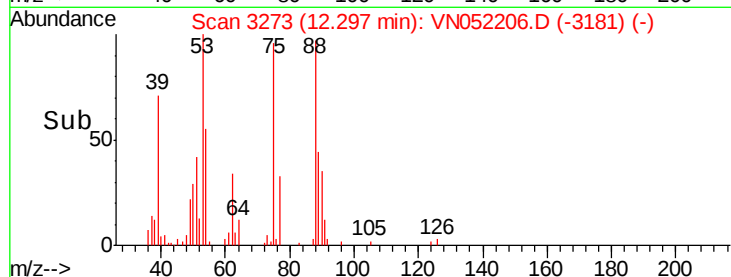
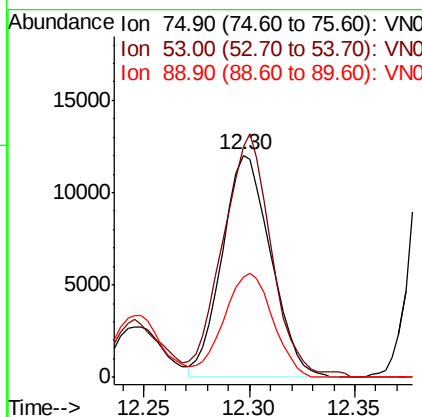
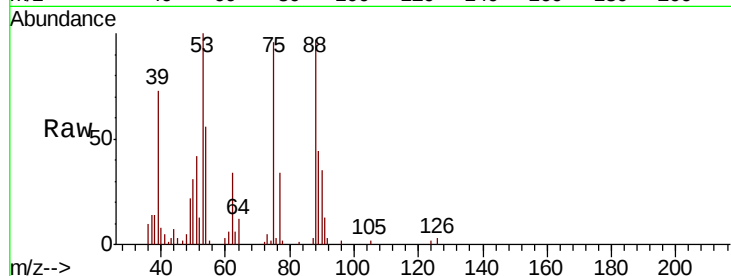
ClientSampleId :

VN1107WBS02

Tot Ion:	75	Resp:	19305
Ion Ratio	Lower	Upper	
75	100		
53	109.7	79.4	119.0
89	47.4	35.8	53.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.615 ug/l

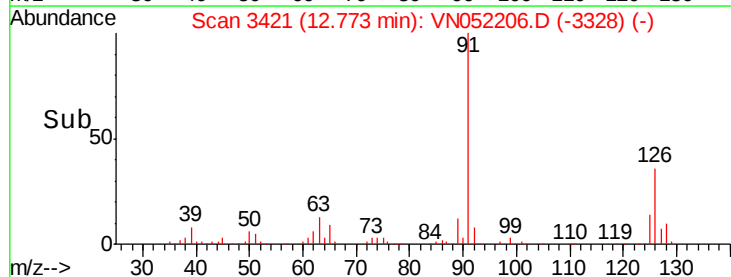
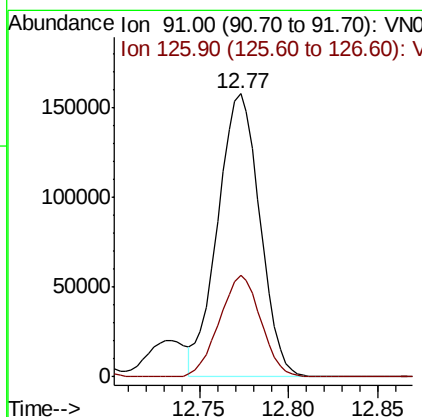
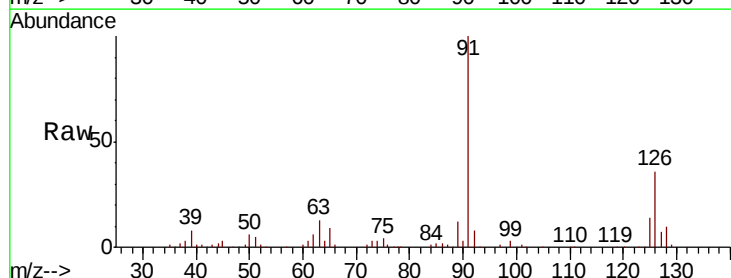
RT: 12.77 min Scan# 3421

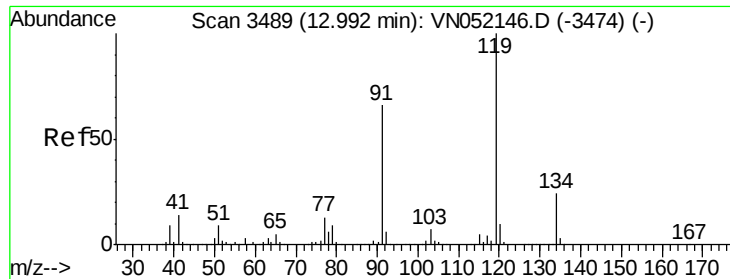
Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion:	91	Resp:	258558
Ion Ratio	Lower	Upper	
91	100		
126	35.3	17.8	53.5





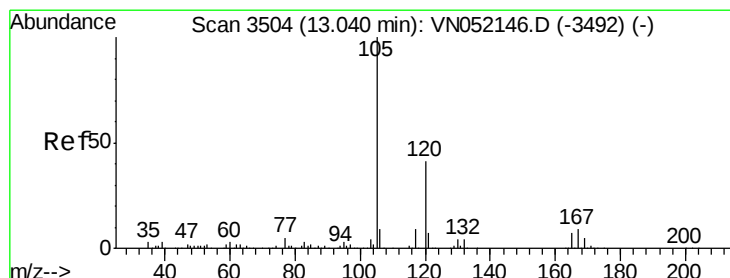
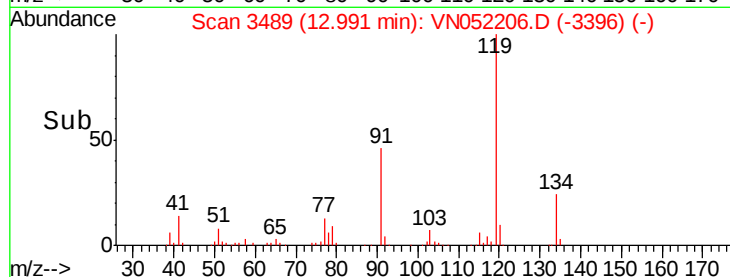
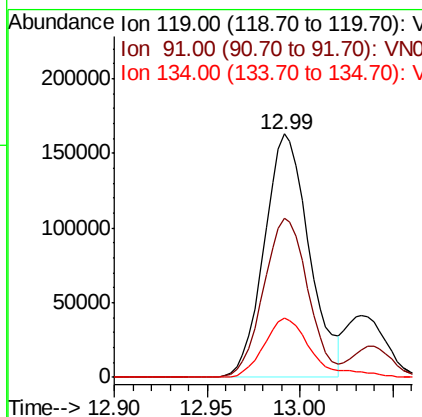
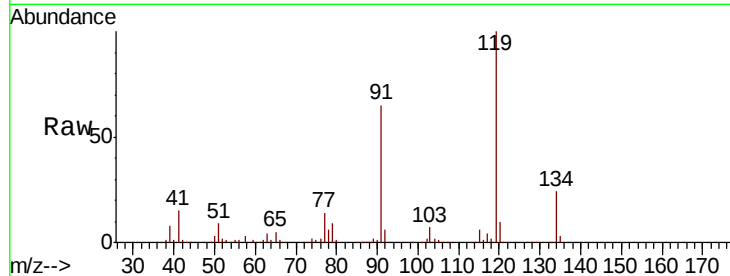
#83
tert-Butylbenzene
Concen: 20.721 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	275766		
91	64.7	32.3	96.8	
134	25.9	13.0	38.9	

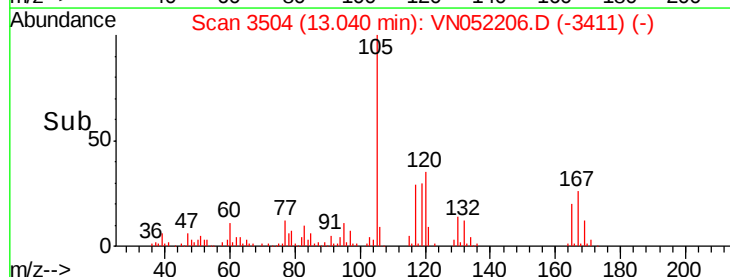
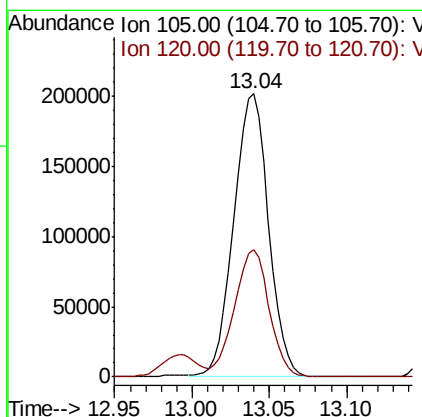
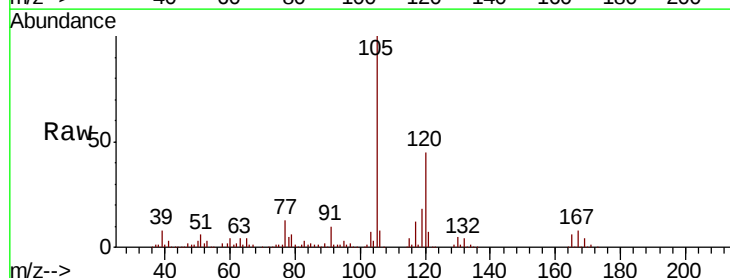
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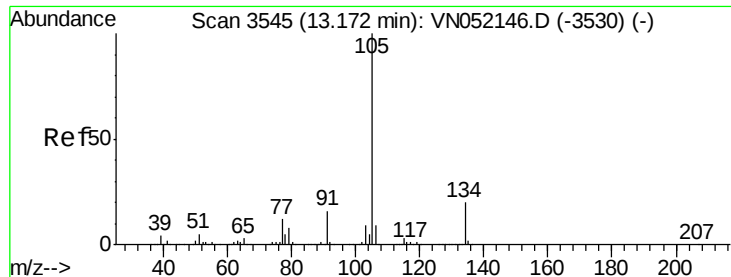
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#84
1,2,4-Trimethylbenzene
Concen: 20.957 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	314418		
120	44.8	23.2	69.5	





#85

sec-Butylbenzene

Concen: 20.733 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN1107WBS02

Tot Ion:105 Resp: 373098

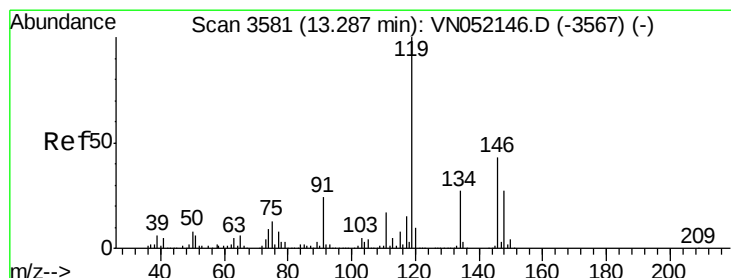
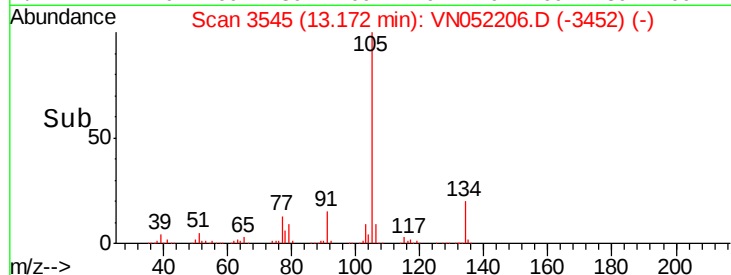
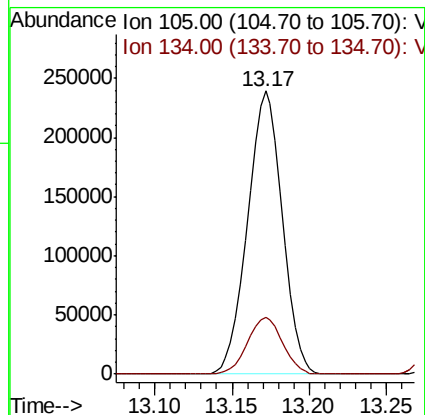
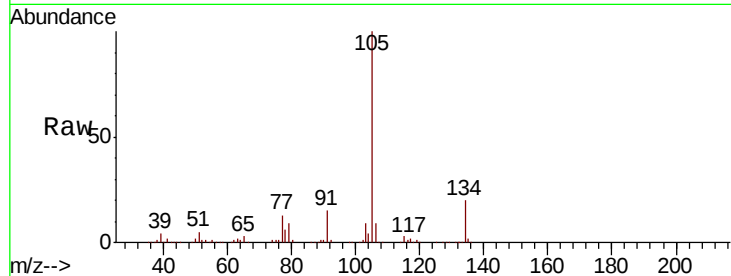
Ion Ratio Lower Upper

105 100

134 20.3 10.2 30.4

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#86

p-Isopropyltoluene

Concen: 20.947 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

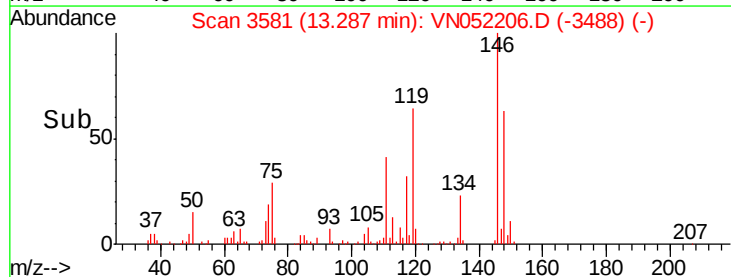
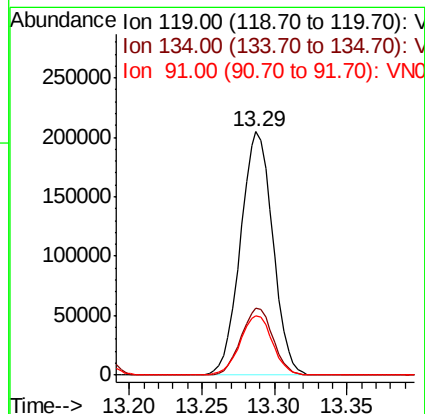
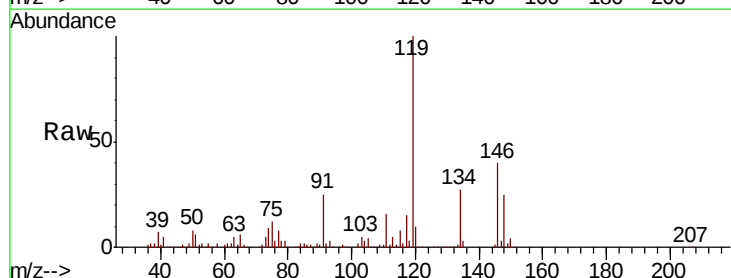
Tgt Ion:119 Resp: 317276

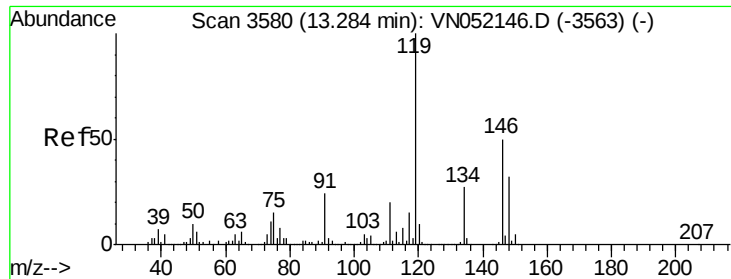
Ion Ratio Lower Upper

119 100

134 27.2 13.5 40.5

91 24.5 11.9 35.7





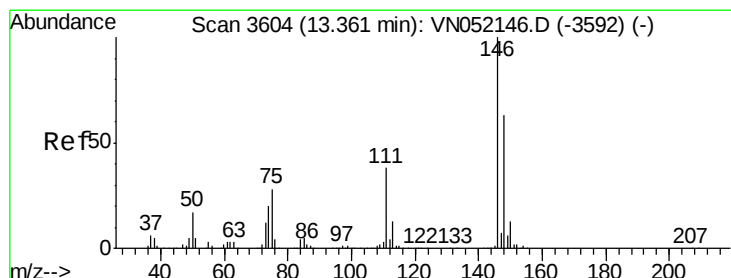
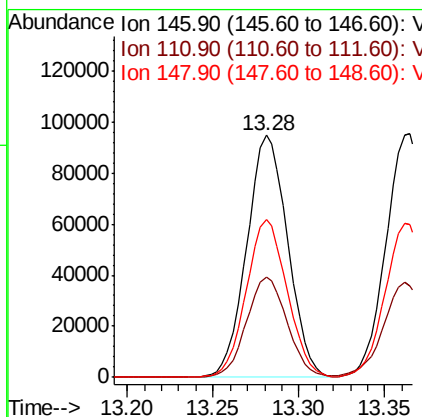
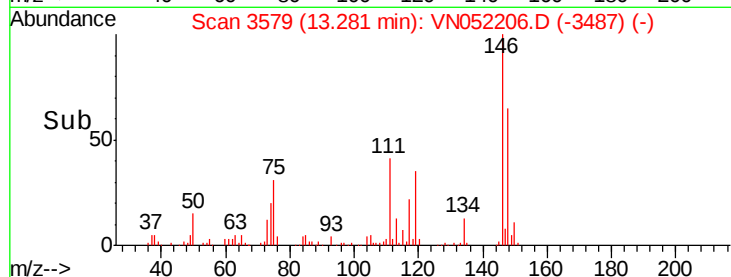
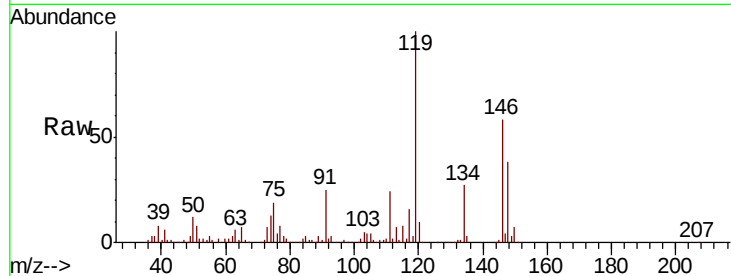
#87
 1,3-Dichlorobenzene
 Concen: 19.919 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.2	60.6
148	65.0	32.1	96.3

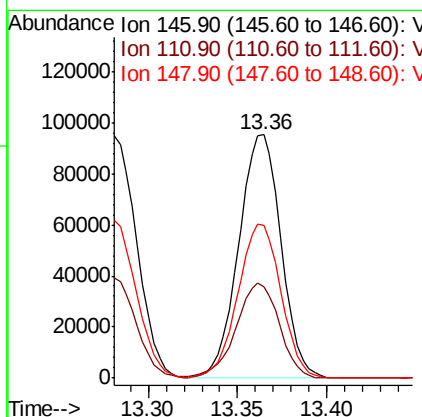
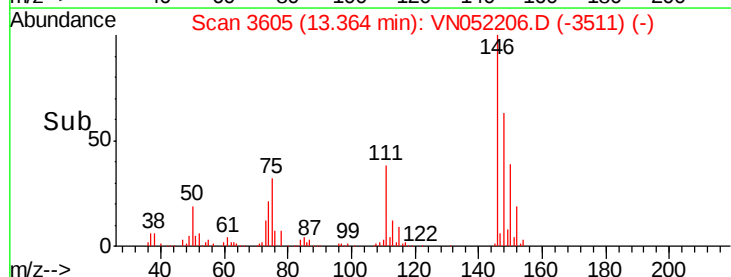
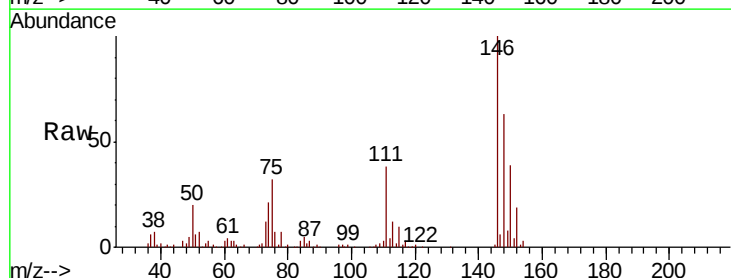
Manual Integrations
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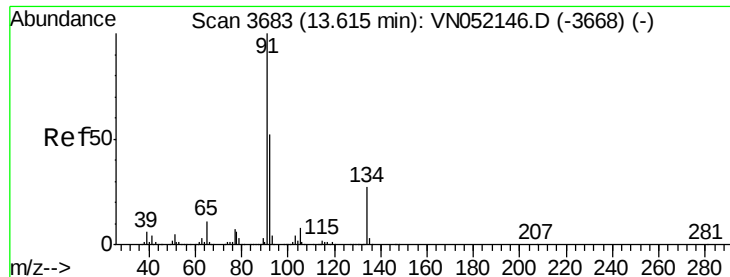
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#88
 1,4-Dichlorobenzene
 Concen: 20.054 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.4	58.1
148	64.4	31.5	94.5





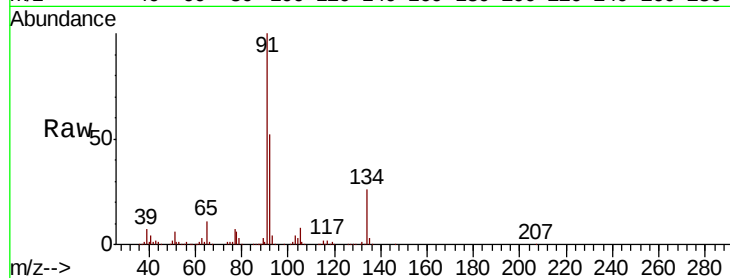
#89
n-Butylbenzene
Concen: 20.258 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
VN1107WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	26.3	78.8
134	25.9	13.4	40.2

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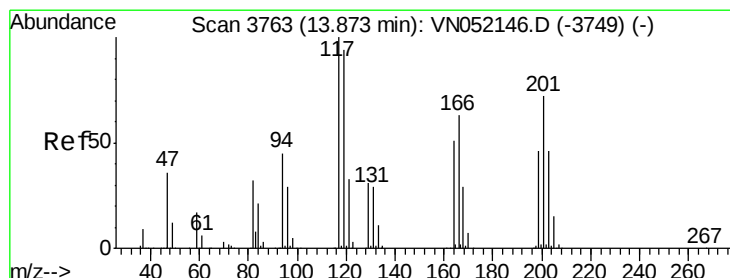
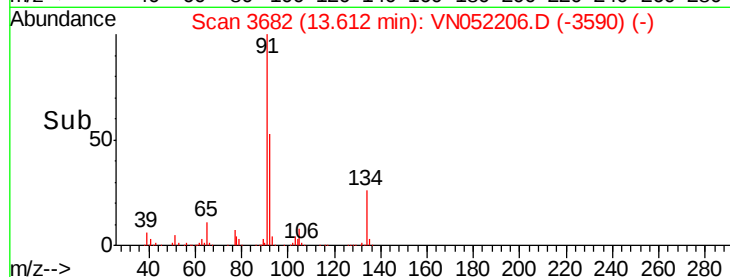
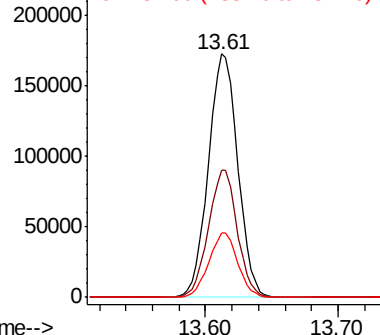


Abundance

Ion 91.00 (90.70 to 91.70): VN052146.D (-3668) (-)

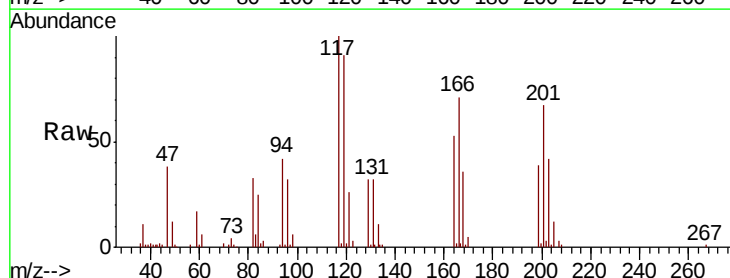
Ion 92.00 (91.70 to 92.70): VN052146.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN052146.D (-3668) (-)



#90
Hexachloroethane
Concen: 20.045 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052206.D
Acq: 7 Nov 2018 14:45

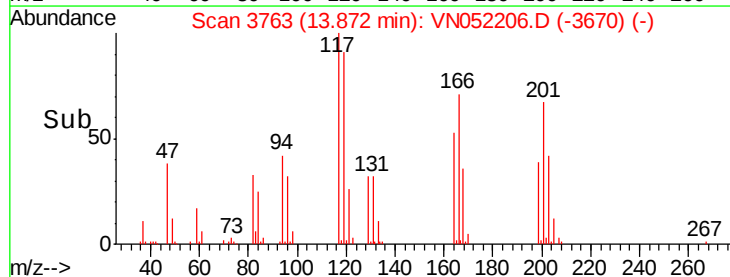
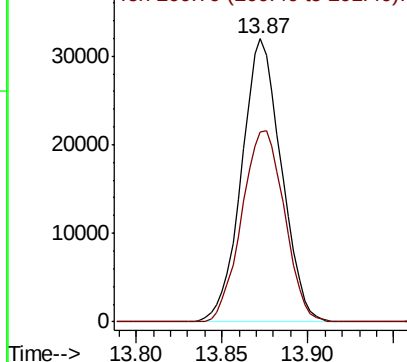
Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.3	36.8	110.3

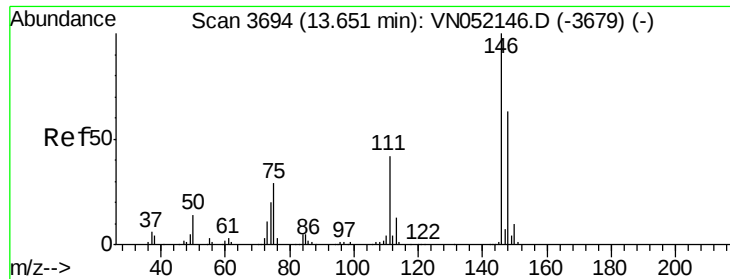


Abundance

Ion 116.80 (116.50 to 117.50): VN052146.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN052146.D (-3749) (-)





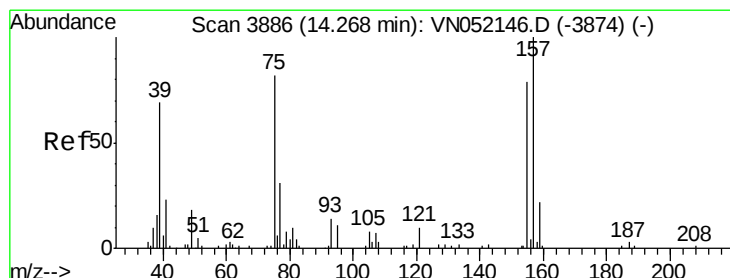
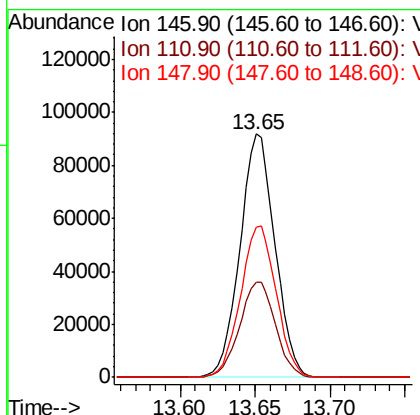
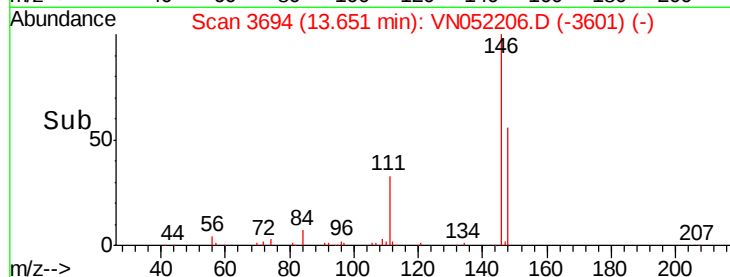
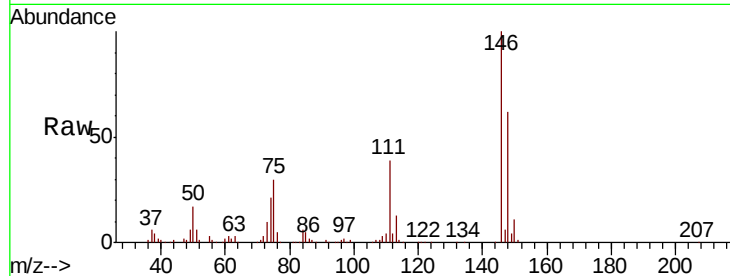
#91
 1,2-Dichlorobenzene
 Concen: 20.295 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	21.1	63.1
148	63.3	31.4	94.3

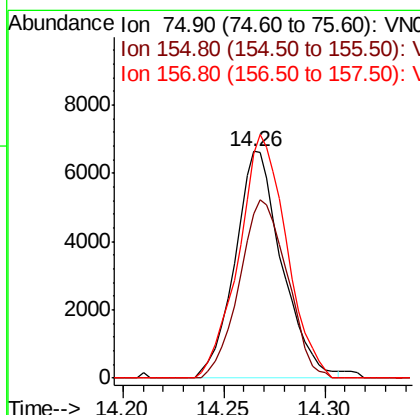
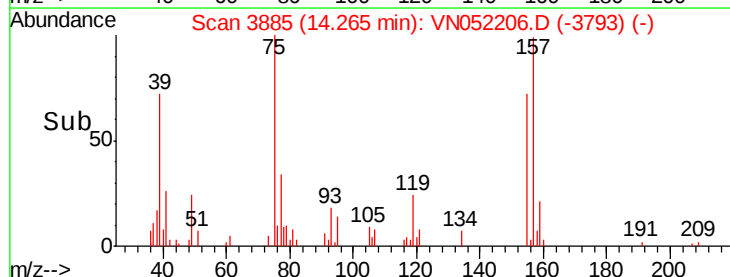
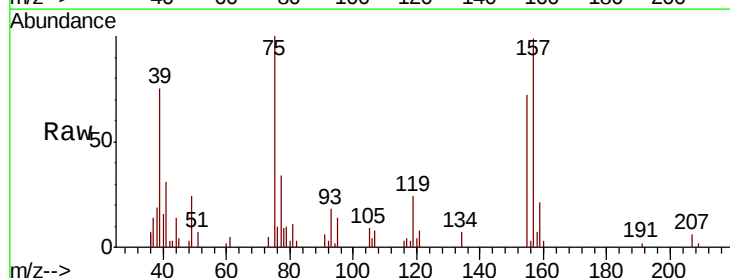
Manual Integrations
 APPROVED

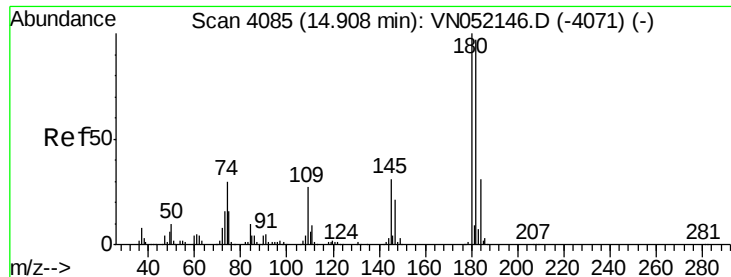
MMDadoda
 11/8/2018 9:14:03 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.155 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.7	47.4	142.2
157	108.7	60.3	180.8





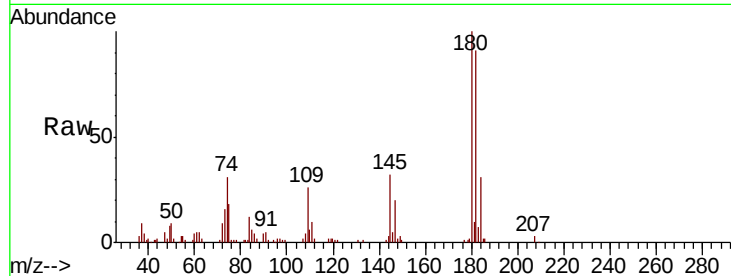
#93
 1,2,4-Trichlorobenzene
 Concen: 19.322 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	62114		
182	91.3	48.1	144.4	
145	31.0	15.3	45.9	

Manual Integrations
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MMDadoda
 11/8/2018 9:14:03 AM

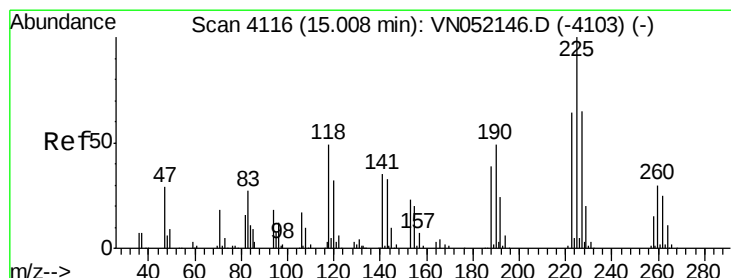
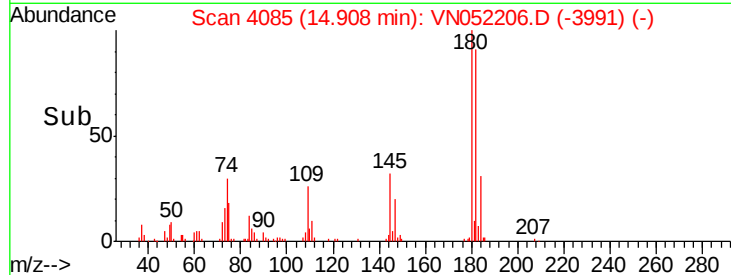
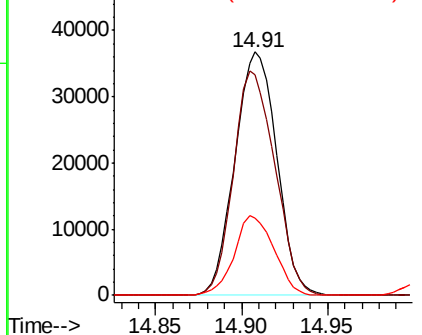


Abundance

Ion 179.80 (179.50 to 180.50): V

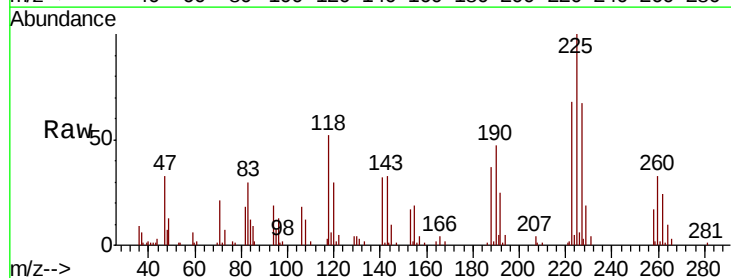
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 20.253 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052206.D
 Acq: 7 Nov 2018 14:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	35399		
223	69.0	32.3	96.8	
227	66.3	31.6	94.8	

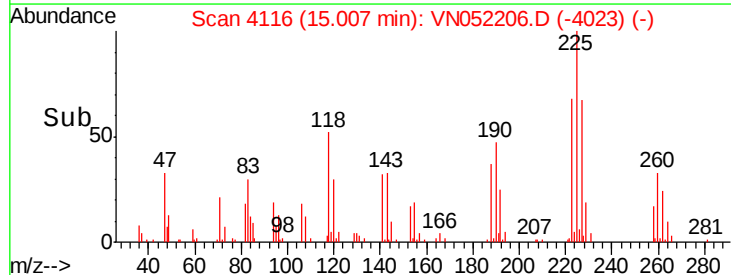
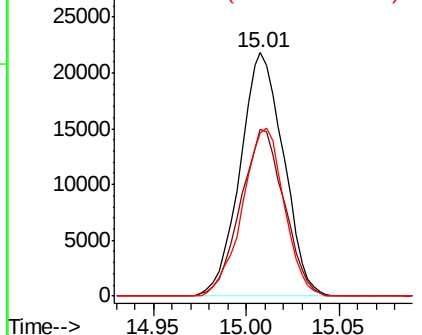


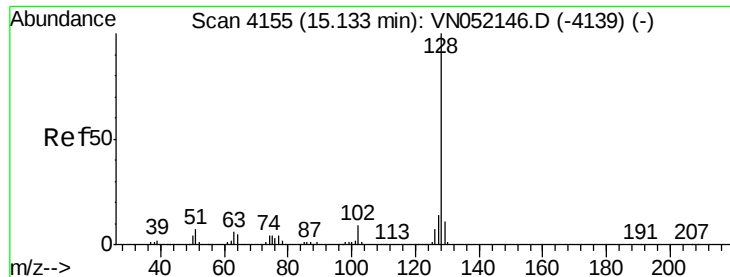
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 18.098 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Instrument :

MSVOA_N

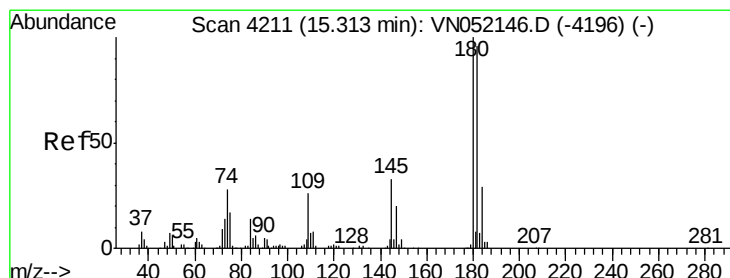
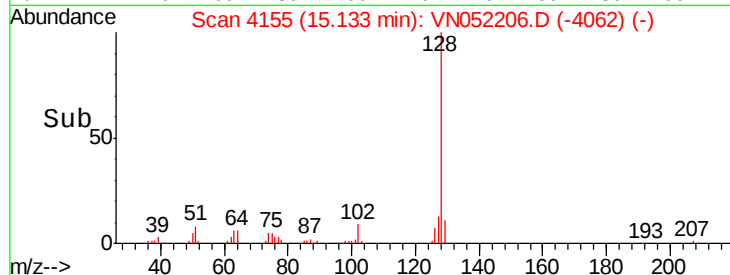
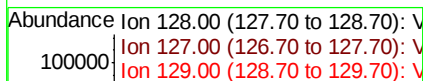
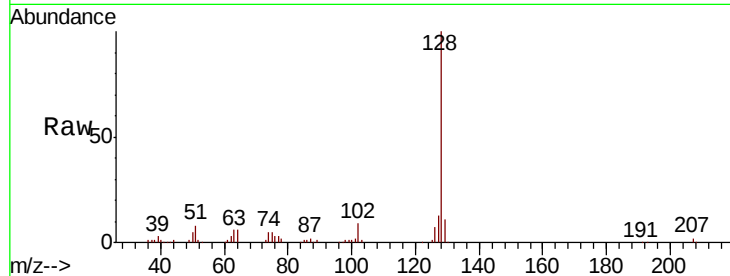
ClientSampleId :

VN1107WBS02

Tot Ion:	128	Resp:	136483
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.8	16.2
129	11.3	9.1	13.7

Manual Integrations
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11/8/2018 9:14:03 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.038 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052206.D

Acq: 7 Nov 2018 14:45

Tgt Ion:	180	Resp:	56717
Ion Ratio	Lower	Upper	
180	100		
182	92.2	46.6	139.7
145	30.6	16.7	50.0

