

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050842.D
 Acq On : 23 Aug 2018 10:40
 Operator : MD\SY
 Sample : VN0823WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/24/2018 10:40:48 AM

Quant Time: Aug 24 01:56:02 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	636372	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	911468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	824874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	395881	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	381421	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
35) Dibromofluoromethane	7.59	113	363520	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
50) Toluene-d8	10.09	98	1373699	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.40	95	432041	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	181107	21.27	ug/l	99
3) Chloromethane	2.06	50	200309	19.07	ug/l	100
4) Vinyl Chloride	2.18	62	195786	19.68	ug/l	98
5) Bromomethane	2.57	94	114793	19.65	ug/l	97
6) Chloroethane	2.70	64	112698	19.60	ug/l	99
7) Trichlorofluoromethane	3.01	101	251182	19.71	ug/l	99
8) Diethyl Ether	3.41	74	84707	19.55	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	157134	19.74	ug/l	99
10) Methyl Iodide	3.95	142	107758	19.81	ug/l	99
11) Tert butyl alcohol	4.79	59	47338	97.04	ug/l	100
12) 1,1-Dichloroethene	3.74	96	140857	19.71	ug/l	96
13) Acrolein	3.61	56	22087	89.89	ug/l	97
14) Allyl chloride	4.33	41	214591	19.27	ug/l	100
15) Acrylonitrile	4.99	53	241837	97.54	ug/l	99
16) Acetone	3.82	43	172139	90.38	ug/l	97
17) Carbon Disulfide	4.05	76	428958	17.90	ug/l	99
18) Methyl Acetate	4.33	43	137309	18.98	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	362878	20.18	ug/l	97
20) Methylene Chloride	4.55	84	163719	18.96	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	149328	19.32	ug/l	98
22) Diisopropyl ether	5.95	45	458690	20.67	ug/l	96
23) Vinyl Acetate	5.90	43	1414620	98.97	ug/l	100
24) 1,1-Dichloroethane	5.85	63	279170	19.59	ug/l	100
25) 2-Butanone	6.84	43	265098	85.87	ug/l	99
26) 2,2-Dichloropropane	6.83	77	217114	18.96	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	168562	20.23	ug/l	98
28) Bromochloromethane	7.20	49	118628	19.59	ug/l	99
29) Tetrahydrofuran	7.22	42	175542	99.17	ug/l	98
30) Chloroform	7.37	83	279909	19.84	ug/l	99
31) Cyclohexane	7.66	56	245939	19.28	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	237790	19.62	ug/l	100
36) 1,1-Dichloropropene	7.79	75	209054	19.44	ug/l	99
37) Ethyl Acetate	6.93	43	119473	19.34	ug/l	99
38) Carbon Tetrachloride	7.78	117	211974	19.50	ug/l	100

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Instrument :
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Manual Integrations
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MMDadoda
 8/24/2018 10:40:48 AM

Quant Time: Aug 24 01:56:02 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	221321	19.02	ug/l	100
40) Benzene	8.04	78	648380	19.99	ug/l	99
41) Methacrylonitrile	7.19	41	68185m	20.39	ug/l	
42) 1,2-Dichloroethane	8.13	62	192055	19.81	ug/l	100
43) Isopropyl Acetate	8.17	43	212016	19.96	ug/l	99
44) Trichloroethene	8.84	130	168479	19.70	ug/l	98
45) 1,2-Dichloropropane	9.12	63	165395	19.40	ug/l	99
46) Dibromomethane	9.21	93	98667	19.70	ug/l	98
47) Bromodichloromethane	9.40	83	207482	19.78	ug/l	99
48) Methyl methacrylate	9.20	41	103859	19.18	ug/l	97
49) 1,4-Dioxane	9.20	88	29406	398.43	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	601443	94.87	ug/l	100
52) Toluene	10.16	92	393396	20.48	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	200339	19.19	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	239195	20.00	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	142908	20.04	ug/l	99
56) Ethyl methacrylate	10.43	69	157987	18.58	ug/l	98
57) 1,3-Dichloropropane	10.71	76	237109	20.14	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	353739	95.34	ug/l	100
59) 2-Hexanone	10.75	43	378366	89.66	ug/l	100
60) Dibromochloromethane	10.90	129	155570	19.48	ug/l	99
61) 1,2-Dibromoethane	11.00	107	135589	19.66	ug/l	100
64) Tetrachloroethene	10.63	164	151650	19.36	ug/l	99
65) Chlorobenzene	11.43	112	421418	19.55	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	156250	19.81	ug/l	99
67) Ethyl Benzene	11.51	91	692014	19.74	ug/l	100
68) m/p-Xylenes	11.62	106	546545	41.08	ug/l	100
69) o-Xylene	11.95	106	260185	20.34	ug/l	99
70) Styrene	11.96	104	404431	18.76	ug/l	100
71) Bromoform	12.13	173	106509	19.63	ug/l #	97
73) Isopropylbenzene	12.25	105	681467	20.79	ug/l	100
74) N-amyl acetate	12.07	43	162202	19.69	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	175292	21.50	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	145876m	21.04	ug/l	
77) Bromobenzene	12.53	156	174881	19.63	ug/l	99
78) n-propylbenzene	12.59	91	765645	20.91	ug/l	100
79) 2-Chlorotoluene	12.67	91	473673	20.77	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	561536	21.23	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	39181	19.10	ug/l	97
82) 4-Chlorotoluene	12.77	91	461225	20.48	ug/l	100
83) tert-Butylbenzene	12.99	119	478915	20.91	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	571648	21.49	ug/l	99
85) sec-Butylbenzene	13.17	105	627207	20.90	ug/l	100
86) p-Isopropyltoluene	13.29	119	538302	21.05	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	293446	19.41	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	280845	18.88	ug/l	99
89) n-Butylbenzene	13.62	91	387100	18.92	ug/l	100
90) Hexachloroethane	13.88	117	99489	20.52	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	285277	19.56	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22339	18.98	ug/l	99

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ALS Vial : 7 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VN0823WBSD01

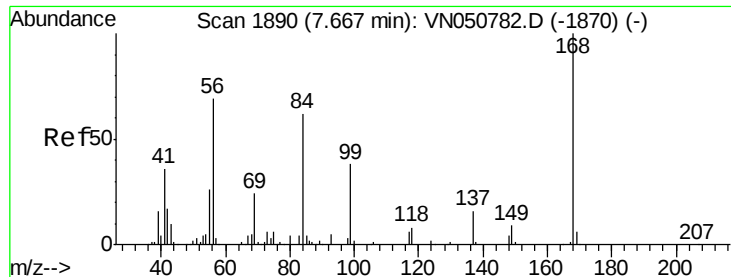
Manual Integrations
APPROVED

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8/24/2018 10:40:48 AM

Quant Time: Aug 24 01:56:02 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	108895	17.26	ug/l	99
94) Hexachlorobutadiene	15.01	225	89105	19.94	ug/l	99
95) Naphthalene	15.13	128	200563	16.71	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	110590	17.82	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion:168 Resp: 636372

Ion Ratio Lower Upper

168 100

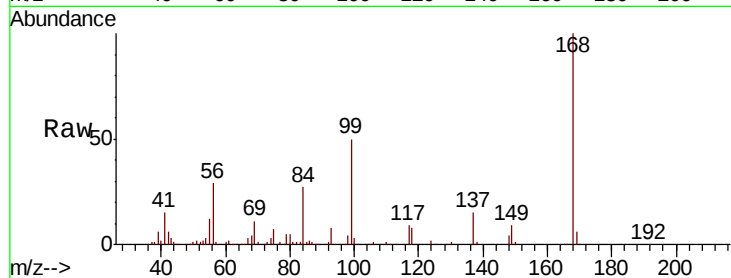
99 49.5 39.6 59.4

Manual Integrations

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8/24/2018 10:40:48 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

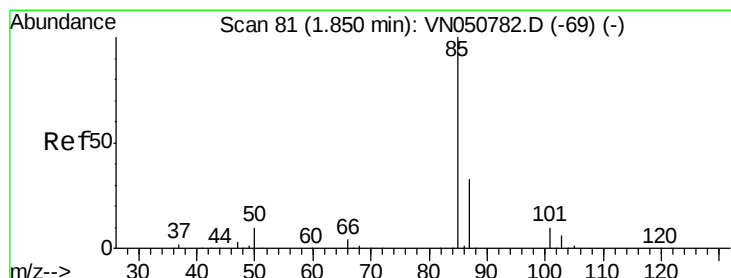
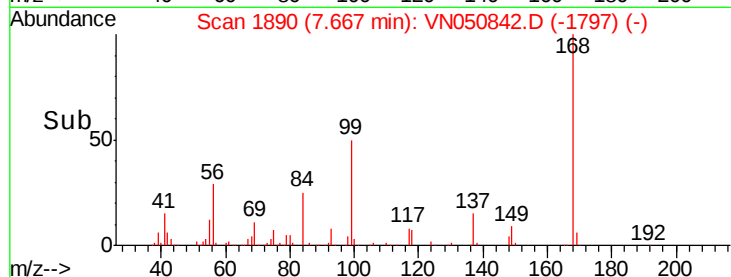
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.27 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050842.D

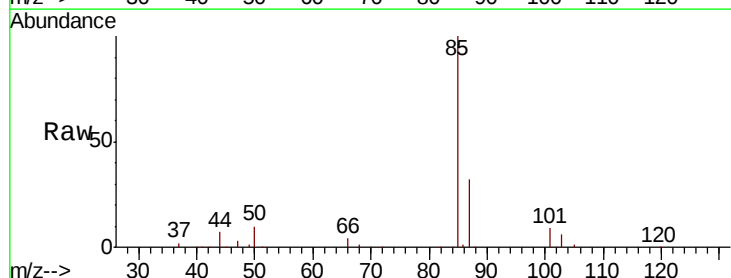
Acq: 23 Aug 2018 10:40

Tgt Ion: 85 Resp: 181107

Ion Ratio Lower Upper

85 100

87 32.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

150000

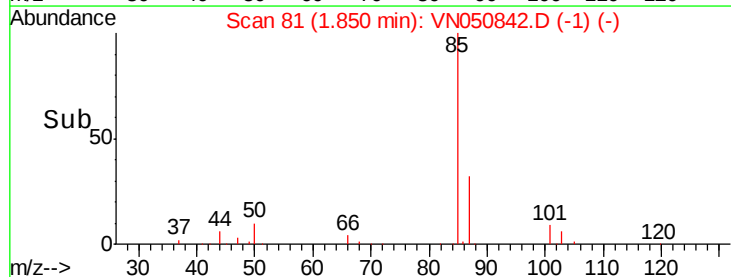
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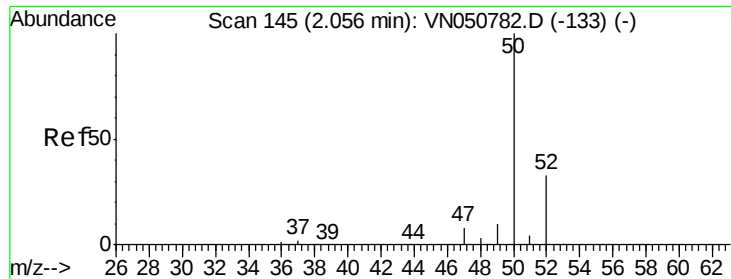
50000

0

1.80 1.85 1.90 1.95

Time-->





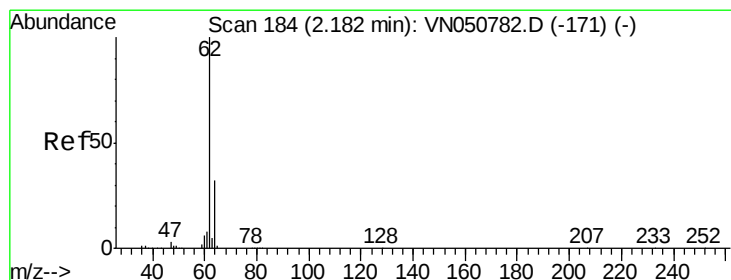
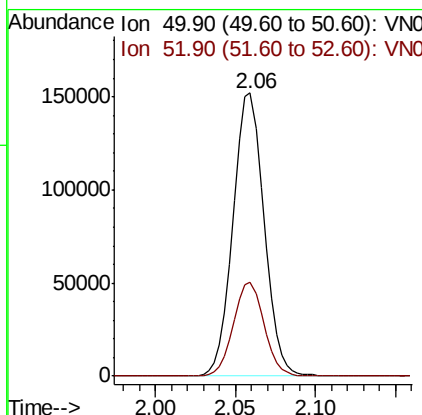
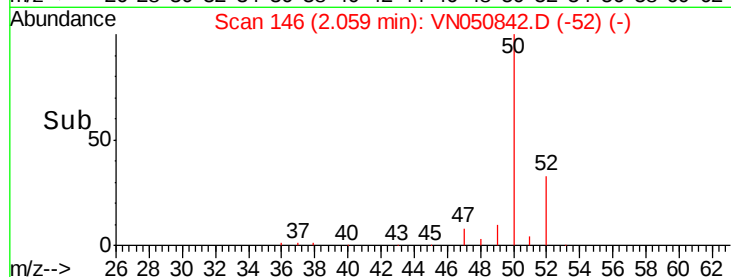
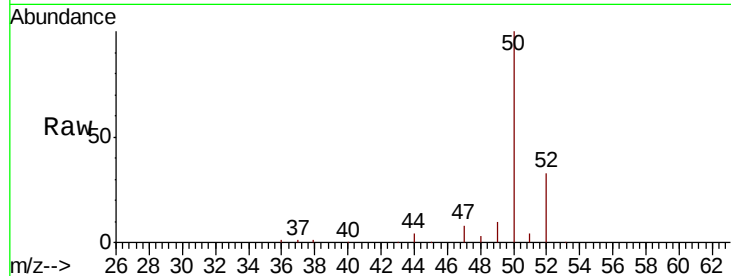
#3
Chloromethane
Concen: 19.07 ug/l
RT: 2.06 min Scan# 146
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampled :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.3	39.5

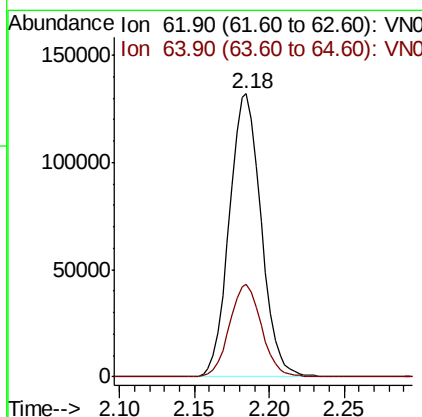
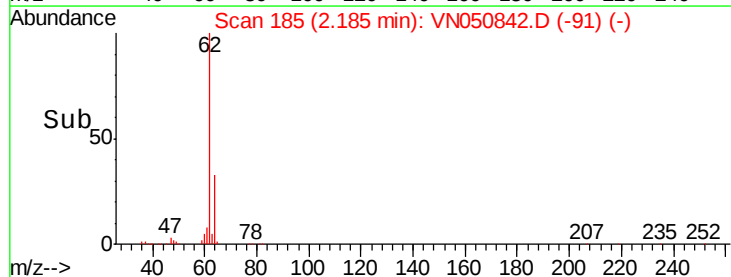
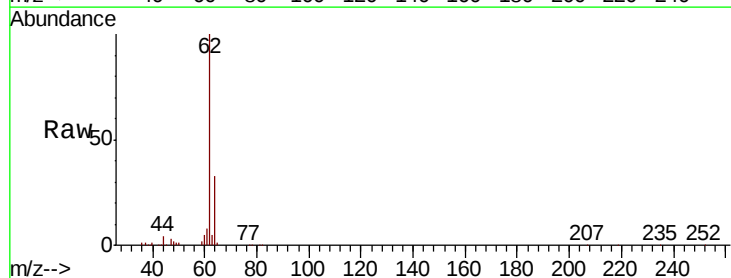
Manual Integrations
APPROVED

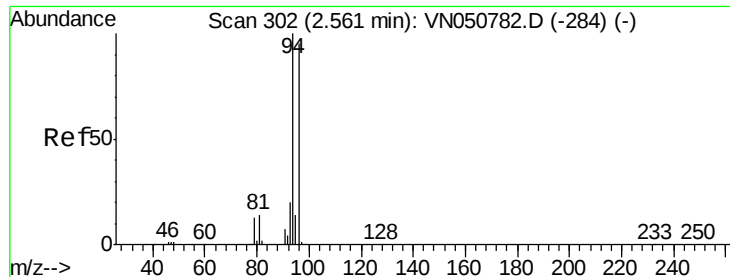
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#4
Vinyl Chloride
Concen: 19.68 ug/l
RT: 2.18 min Scan# 185
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.4	38.2





#5

Bromomethane

Concen: 19.65 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion: 94 Resp: 114793

Ion Ratio Lower Upper

94 100

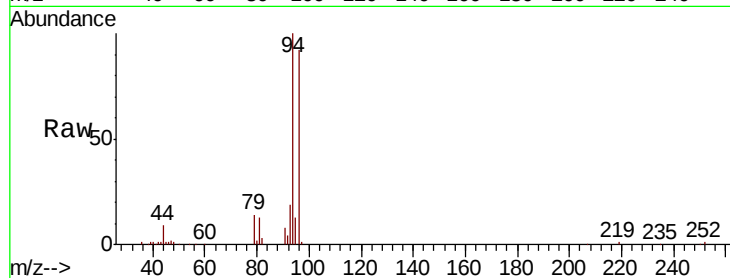
96 91.9 76.2 114.2

Manual Integrations

APPROVED

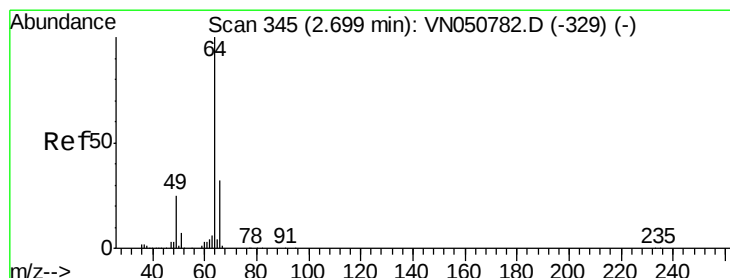
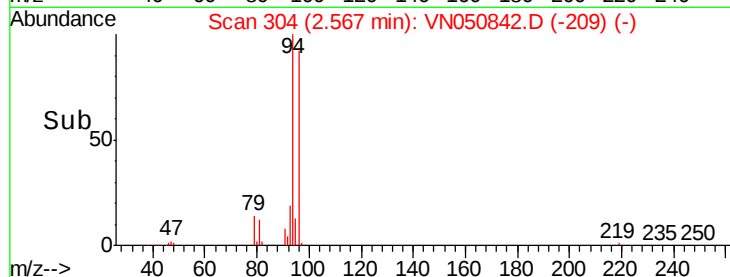
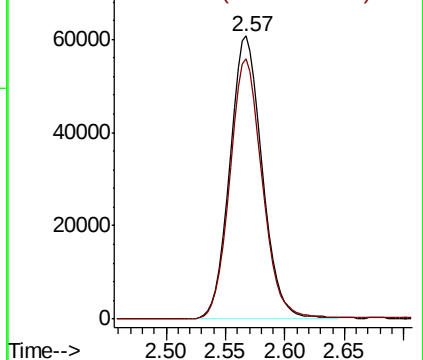
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.60 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050842.D

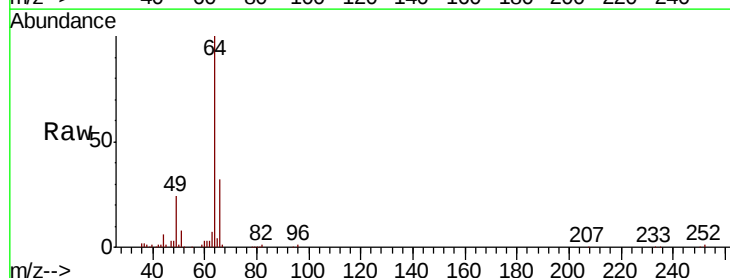
Acq: 23 Aug 2018 10:40

Tgt Ion: 64 Resp: 112698

Ion Ratio Lower Upper

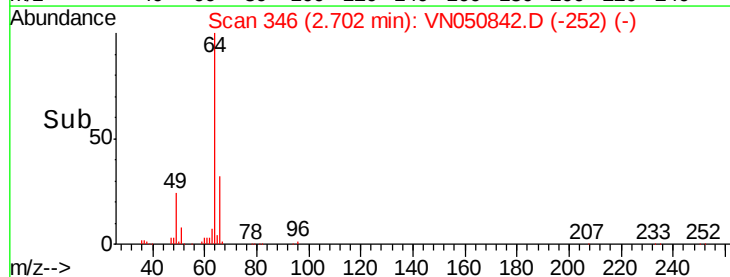
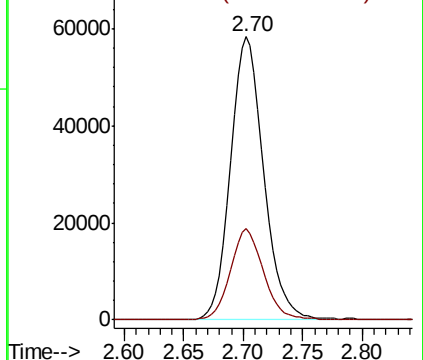
64 100

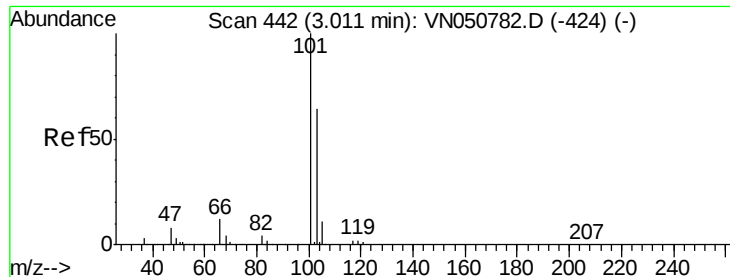
66 32.3 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 19.71 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

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ClientSampleId :

VN0823WBSD01

Tot Ion:101 Resp: 251182

Ion Ratio Lower Upper

101 100

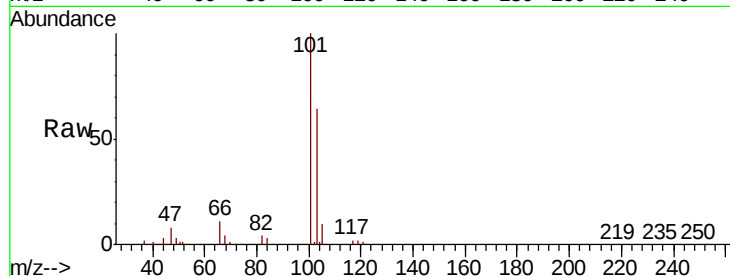
103 63.6 51.6 77.4

Manual Integrations

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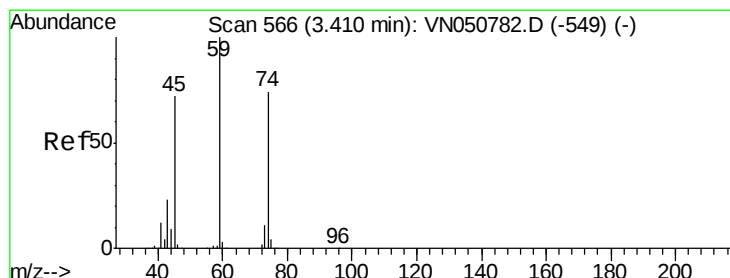
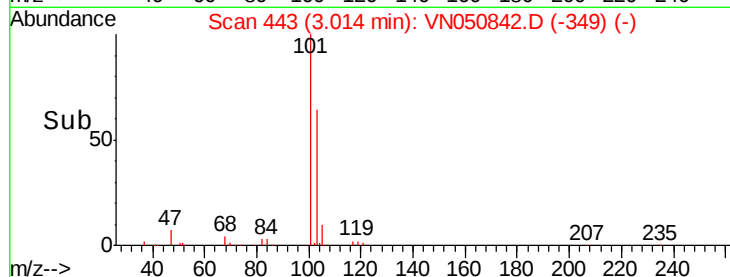
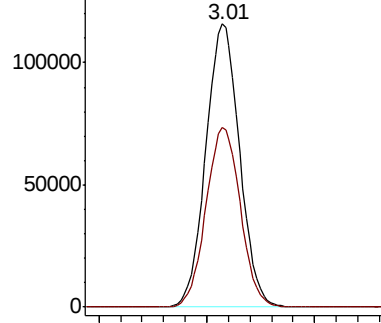
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 19.55 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050842.D

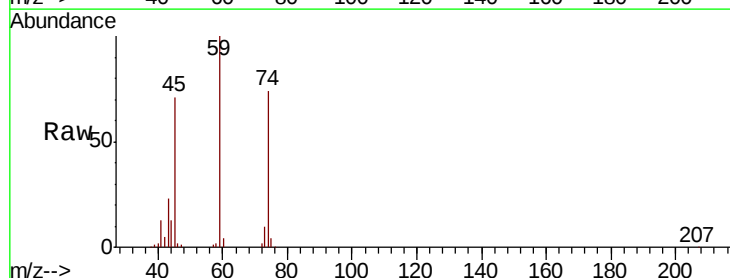
Acq: 23 Aug 2018 10:40

Tgt Ion: 74 Resp: 84707

Ion Ratio Lower Upper

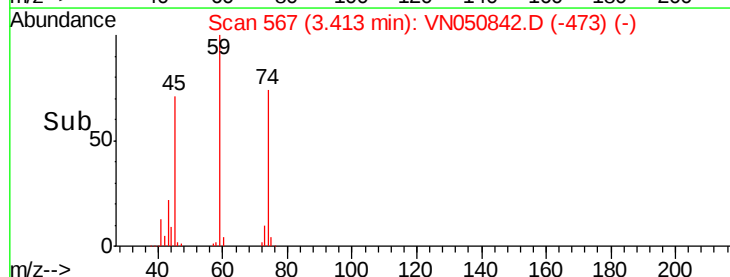
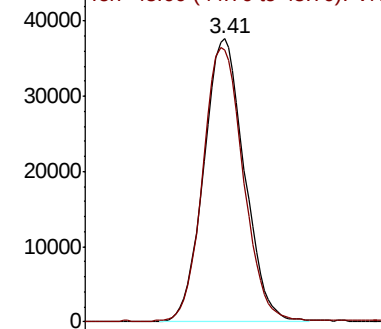
74 100

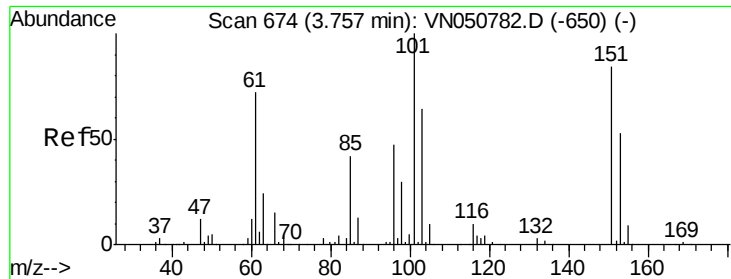
45 97.2 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





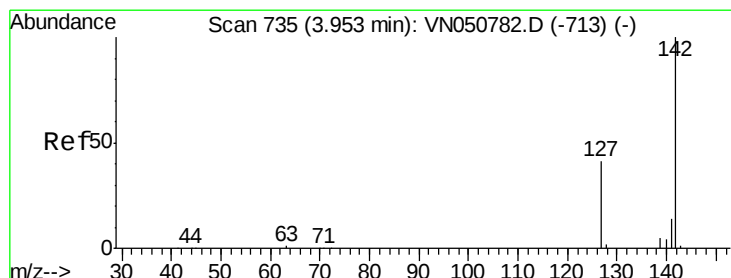
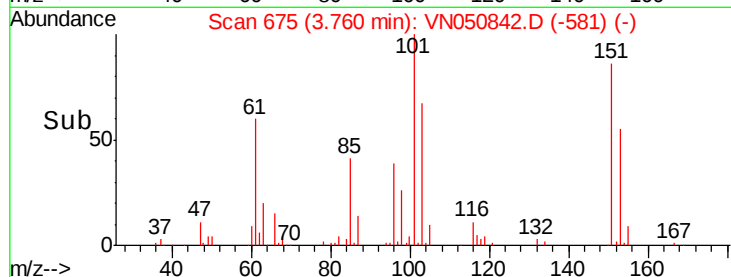
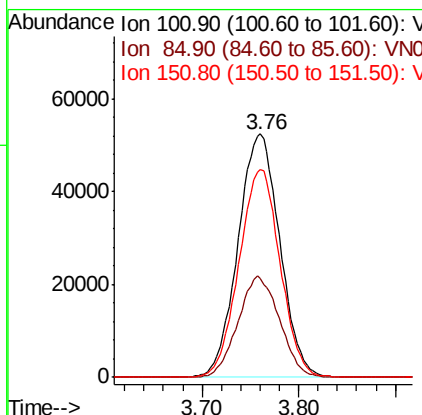
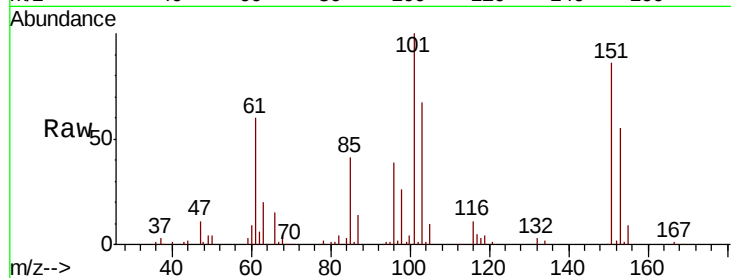
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.74 ug/l
 RT: 3.76 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.4	33.7	50.5
151	84.0	67.4	101.2

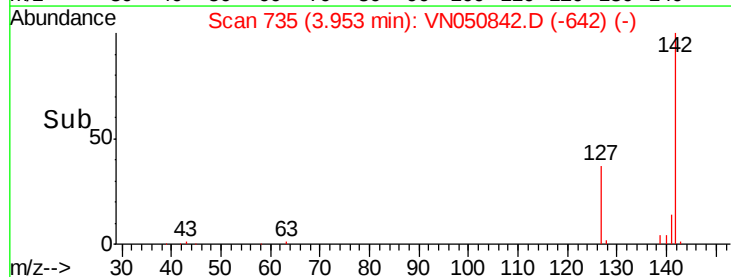
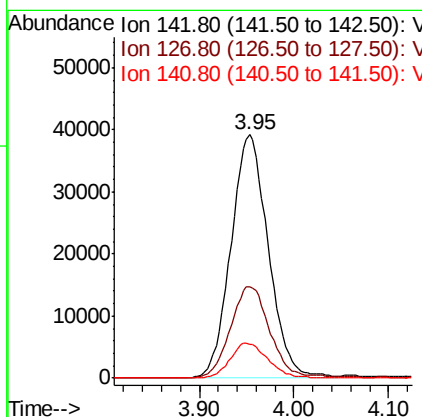
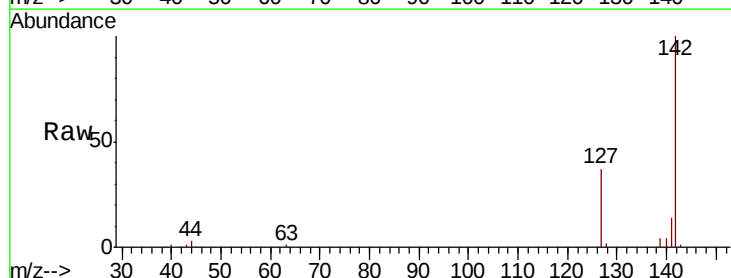
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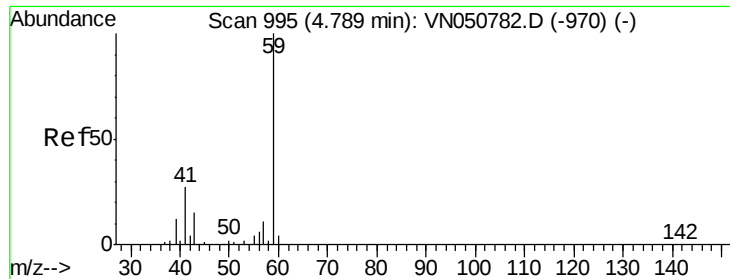
MMDadoda
 8/24/2018 10:40:48 AM



#10
 Methyl Iodide
 Concen: 19.81 ug/l
 RT: 3.95 min Scan# 735
 Delta R.T. 0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.0	31.7	47.5
141	14.4	11.4	17.0





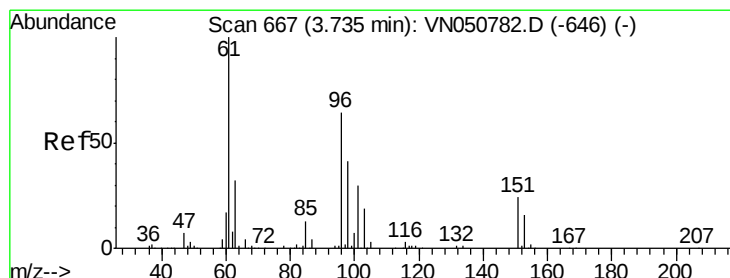
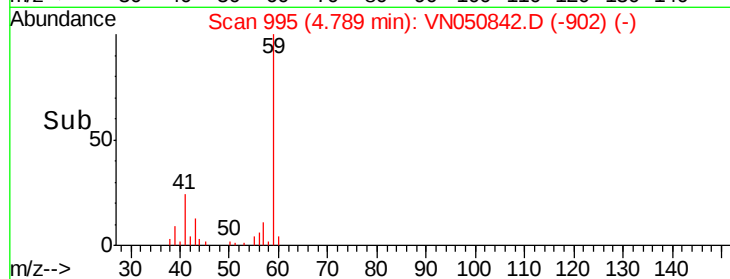
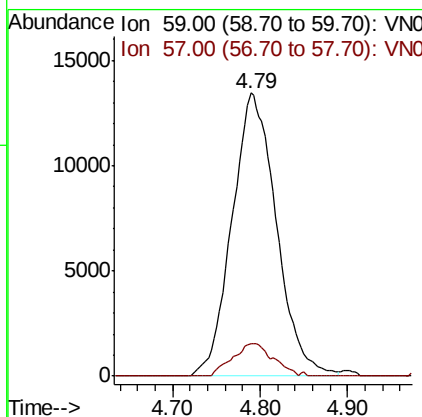
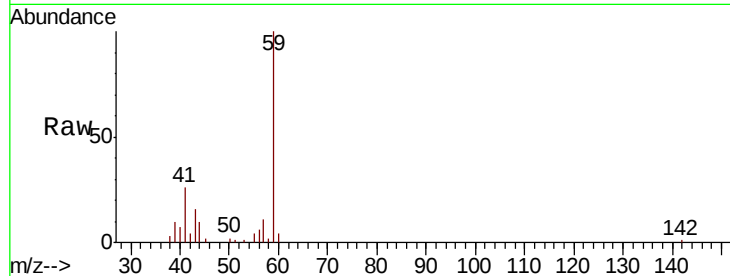
#11
Tert butyl alcohol
Concen: 97.04 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	59	Resp	47338
Ion Ratio	100	Lower	Upper
57	10.4	8.3	12.5

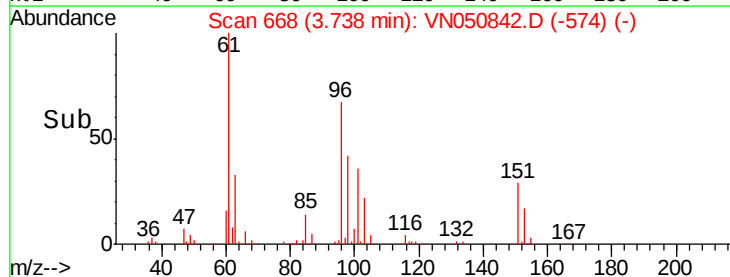
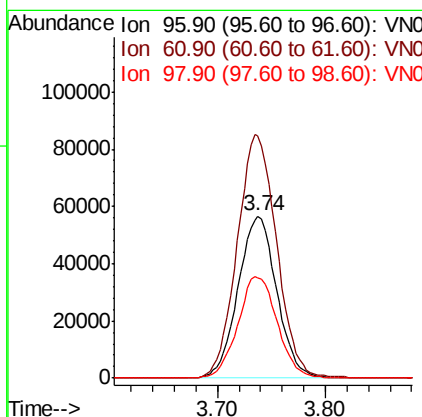
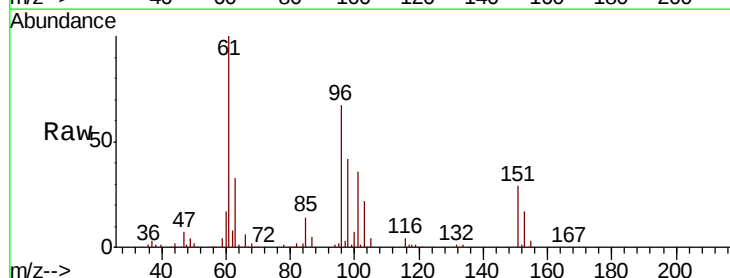
Manual Integrations
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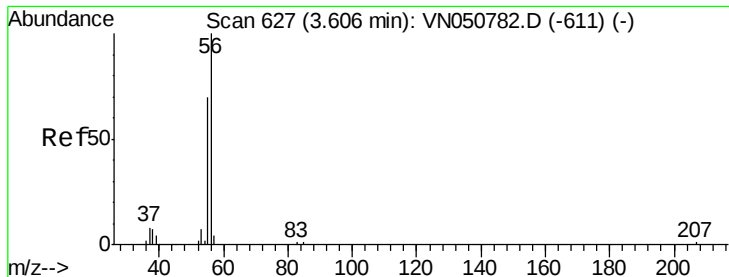
MMDadoda
8/24/2018 10:40:48 AM



#12
1,1-Dichloroethene
Concen: 19.71 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	96	Resp	140857
Ion Ratio	100	Lower	Upper
61	149.8	124.9	187.3
98	62.3	51.1	76.7





#13

Acrolein

Concen: 89.89 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleID :

VN0823WBSD01

Tot Ion: 56 Resp: 22087

Ion Ratio Lower Upper

56 100

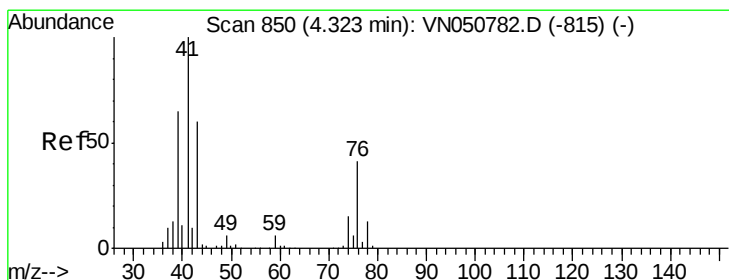
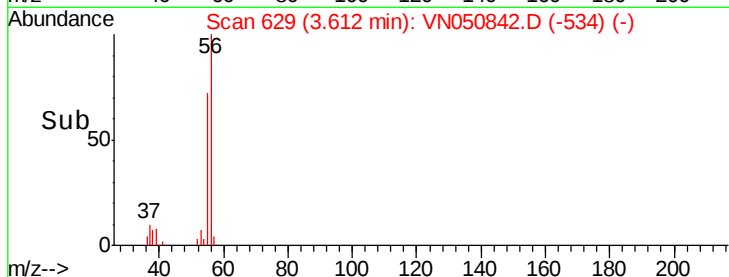
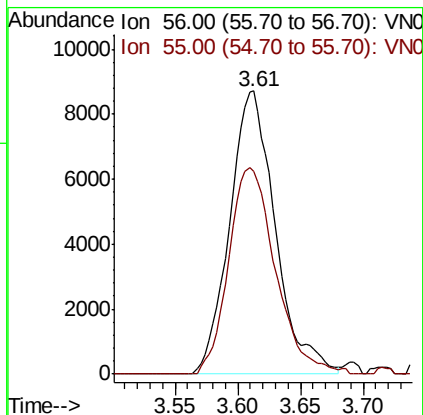
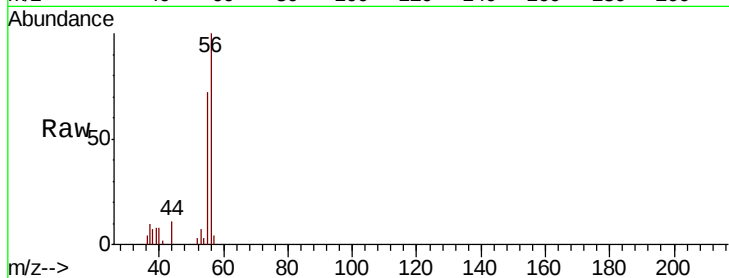
55 74.7 57.7 86.5

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8/24/2018 10:40:48 AM



#14

Allyl chloride

Concen: 19.27 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

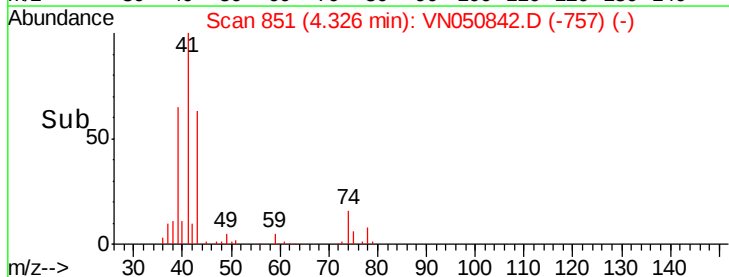
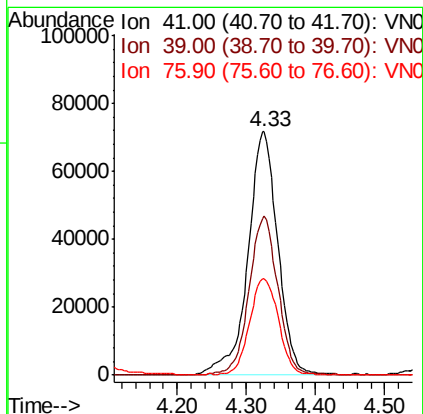
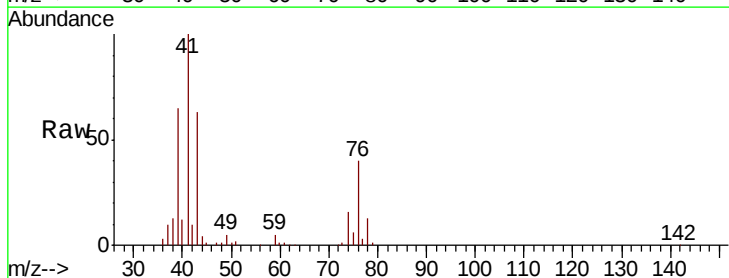
Tgt Ion: 41 Resp: 214591

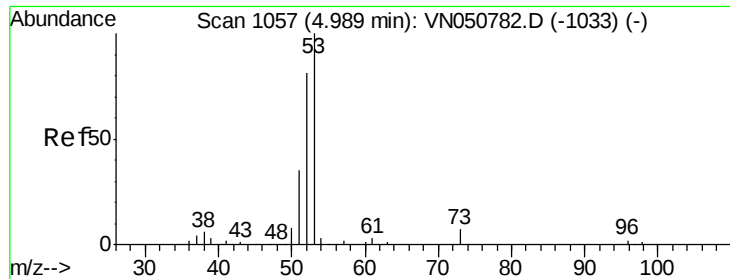
Ion Ratio Lower Upper

41 100

39 63.0 50.2 75.2

76 37.4 29.8 44.8





#15

Acrylonitrile

Concen: 97.54 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

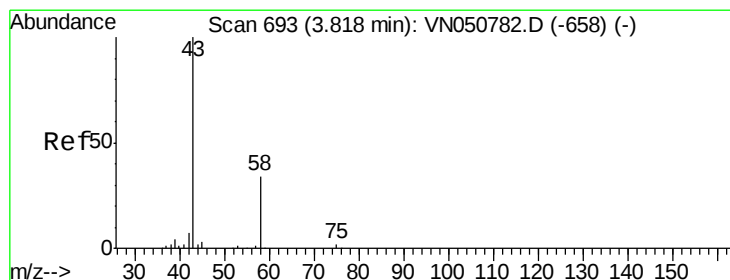
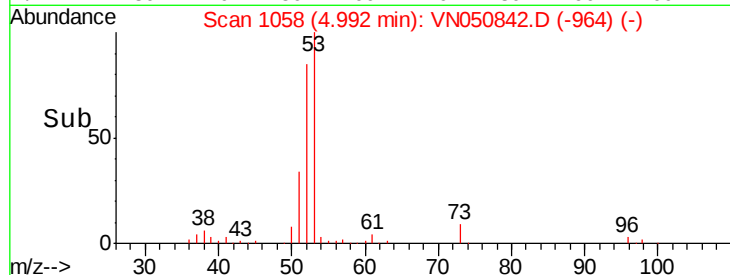
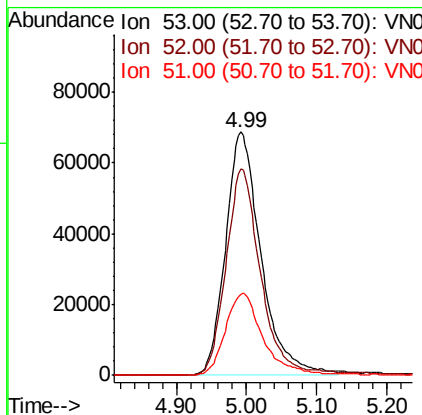
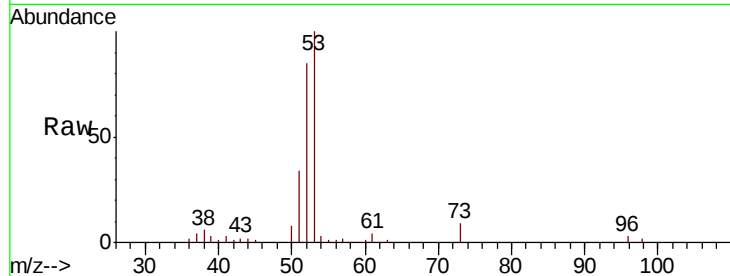
ClientSampleId :

VN0823WBSD01

Tot Ion:	53	Resp:	241837
Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.9	98.9
51	35.8	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 90.38 ug/l

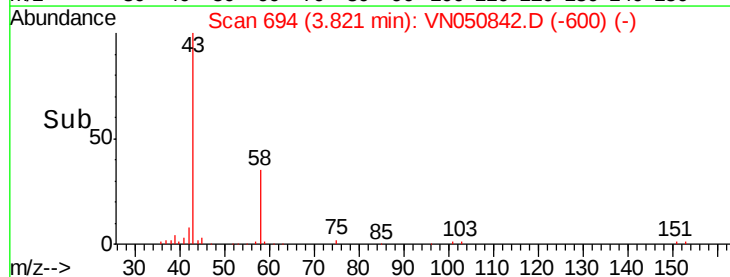
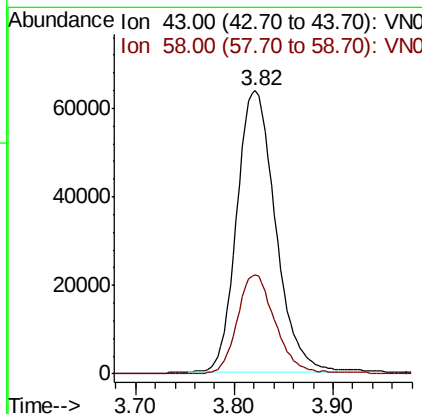
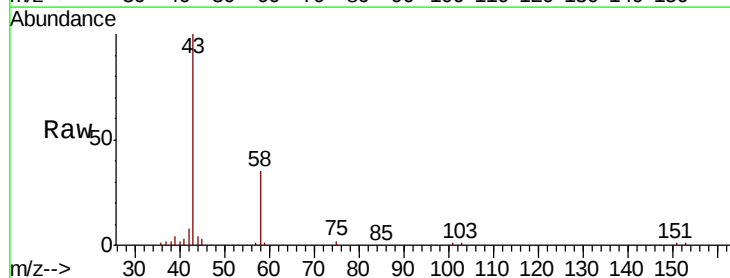
RT: 3.82 min Scan# 694

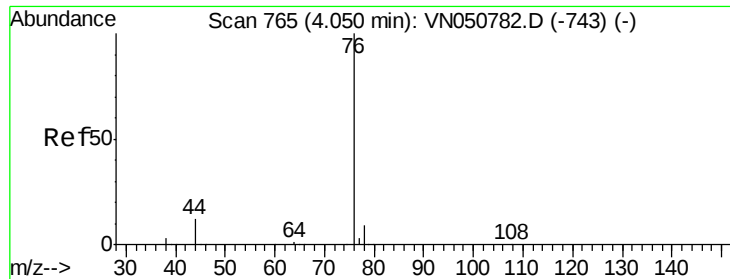
Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Tgt Ion:	43	Resp:	172139
Ion	Ratio	Lower	Upper
43	100		
58	35.5	27.2	40.8





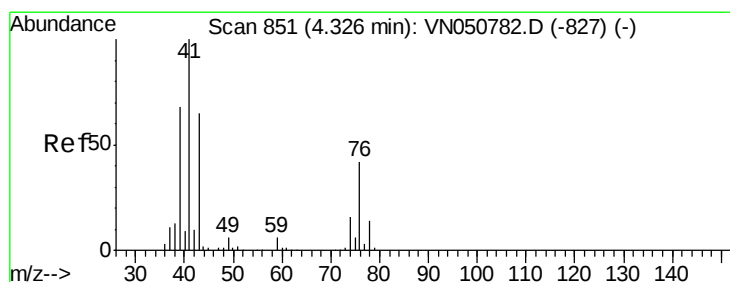
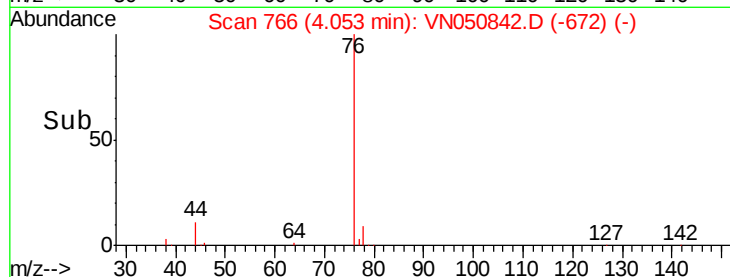
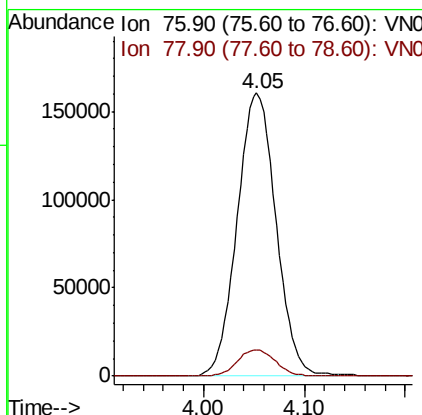
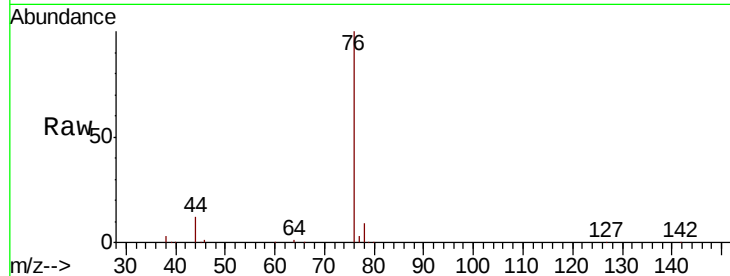
#17
Carbon Disulfide
Concen: 17.90 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.3	10.9

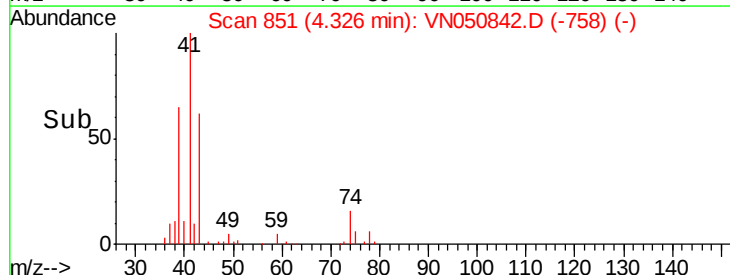
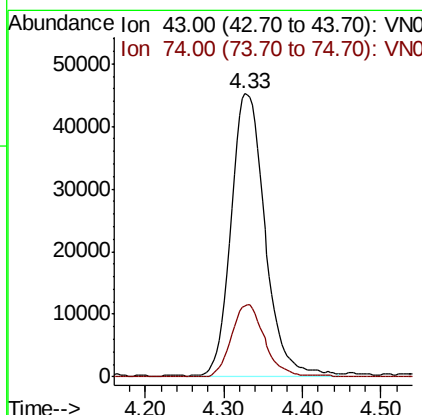
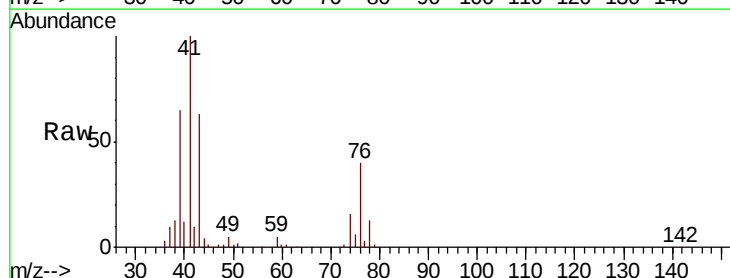
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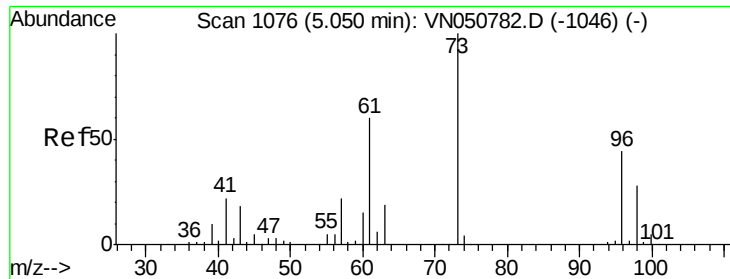
MMDadoda
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#18
Methyl Acetate
Concen: 18.98 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.8	29.8





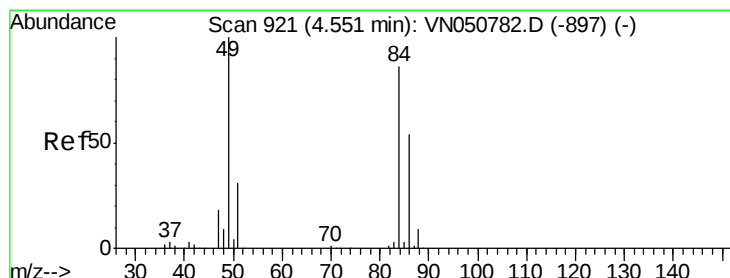
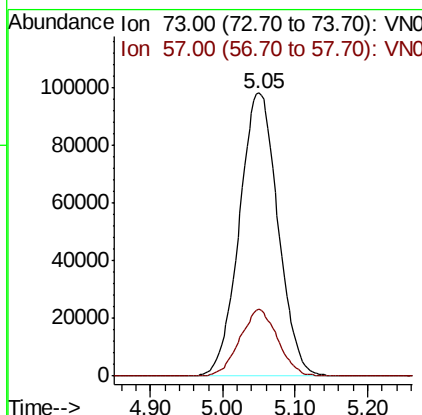
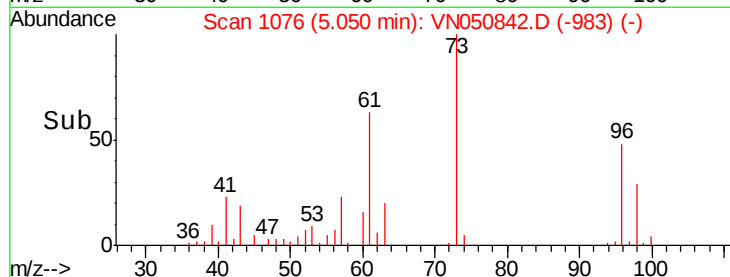
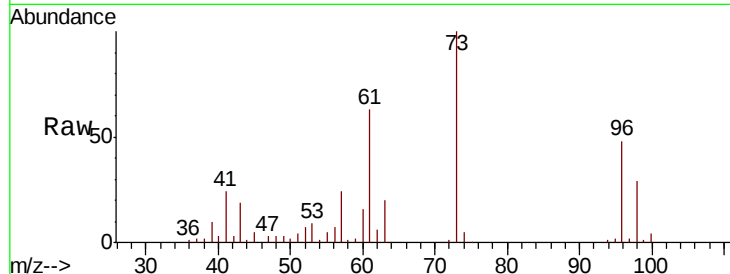
#19
Methyl tert-butyl Ether
Concen: 20.18 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion: 73 Resp: 362878
Ion Ratio Lower Upper
73 100
57 23.5 17.8 26.8

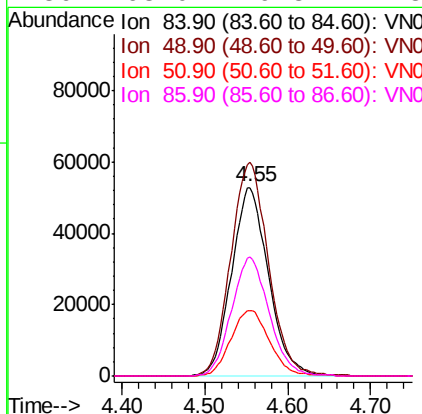
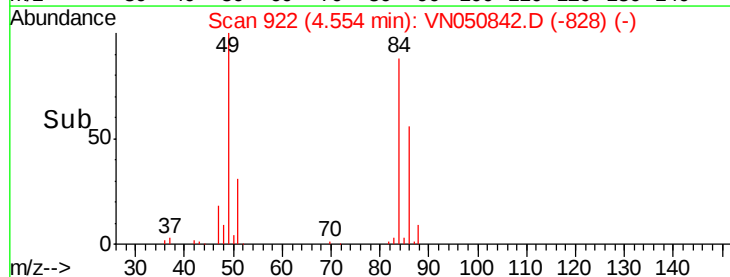
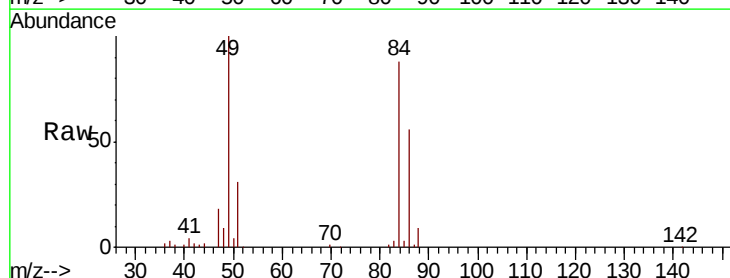
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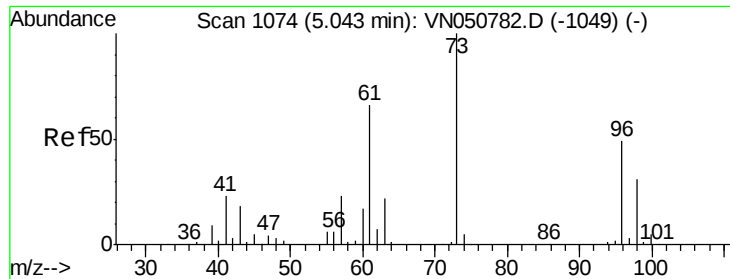
MMDadoda
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#20
Methylene Chloride
Concen: 18.96 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion: 84 Resp: 163719
Ion Ratio Lower Upper
84 100
49 113.3 93.2 139.8
51 34.9 29.0 43.6
86 63.0 49.8 74.8





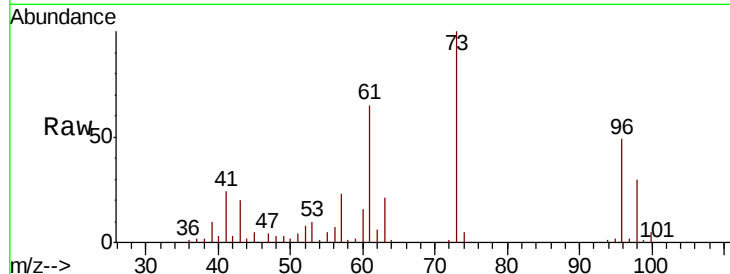
#21
trans-1,2-Dichloroethene
Concen: 19.32 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampled :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.8	107.4	161.0
98	61.3	50.7	76.1

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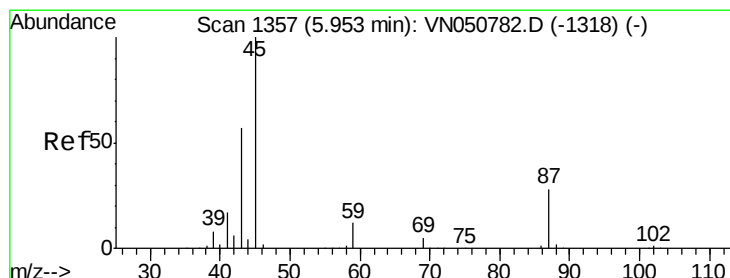
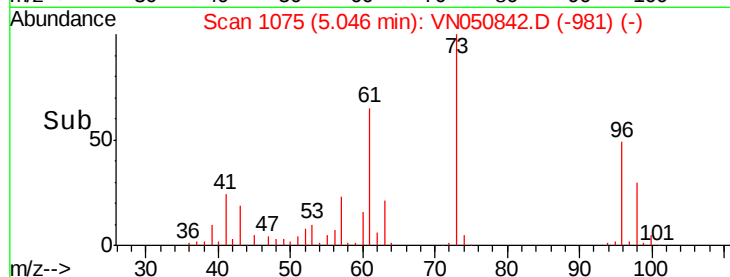
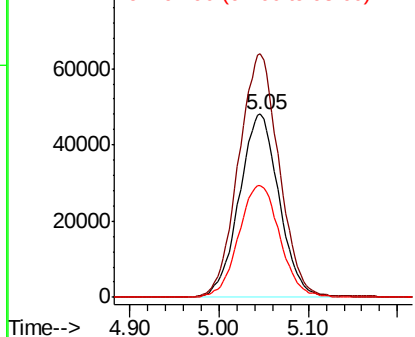


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22
Diisopropyl ether
Concen: 20.67 ug/l
RT: 5.95 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.6	45.9	68.9
87	29.6	22.7	34.1
59	12.4	9.3	13.9

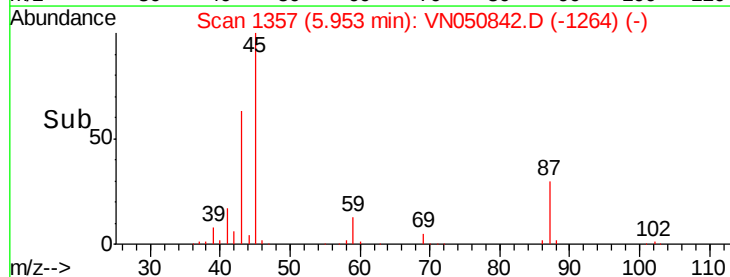
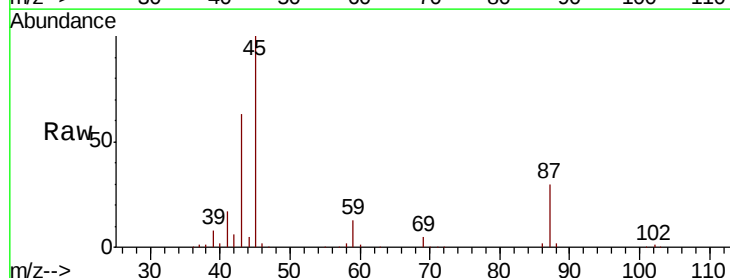
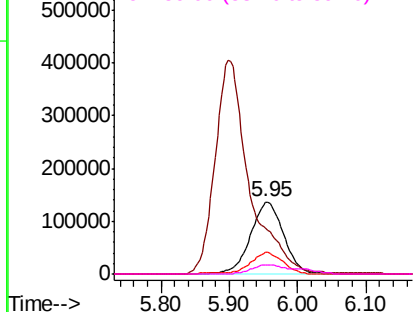
Abundance

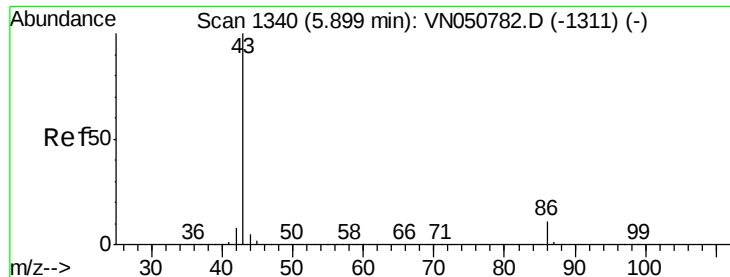
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 98.97 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleID :

VN0823WBSD01

Tot Ion: 43 Resp: 1414620

Ion Ratio Lower Upper

43 100

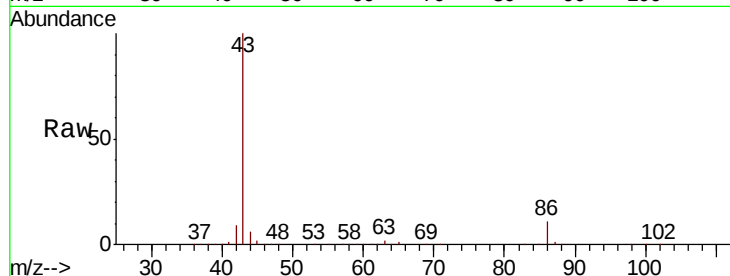
86 10.8 8.7 13.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

300000

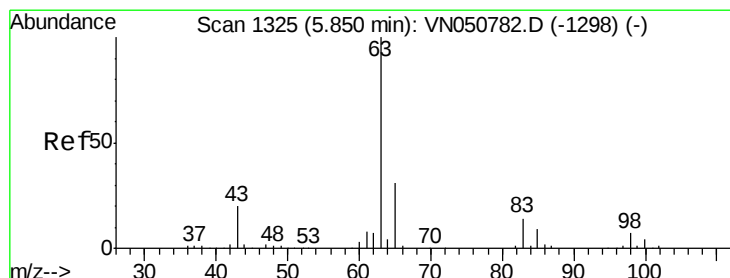
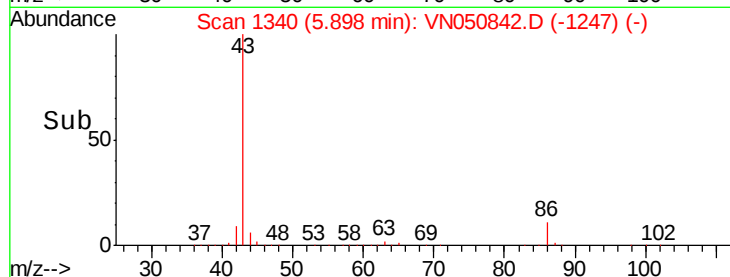
200000

100000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 19.59 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

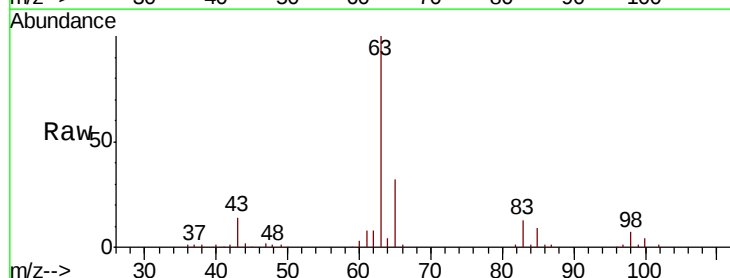
Tgt Ion: 63 Resp: 279170

Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

100 4.2 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

120000

100000

80000

60000

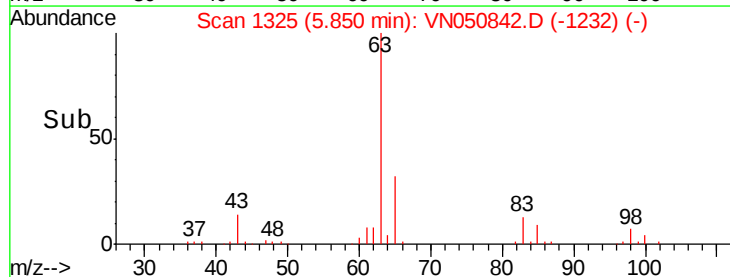
40000

20000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 85.87 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleID :

VN0823WBSD01

Tot Ion: 43 Resp: 265098

Ion Ratio Lower Upper

43 100

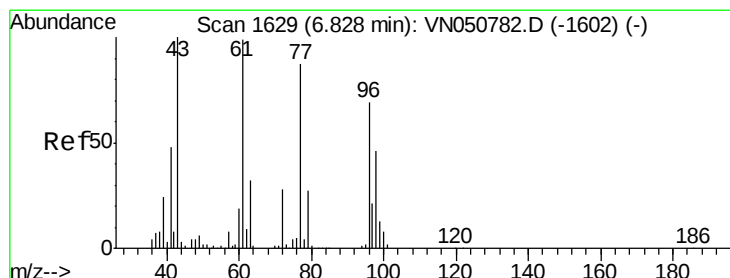
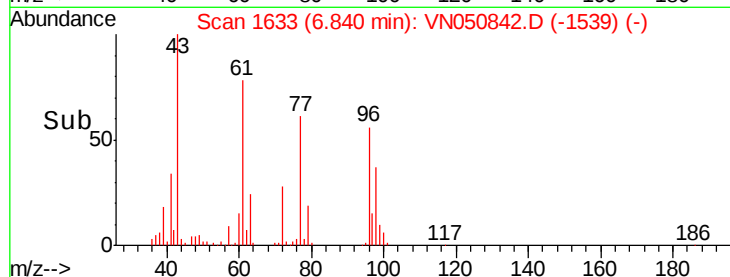
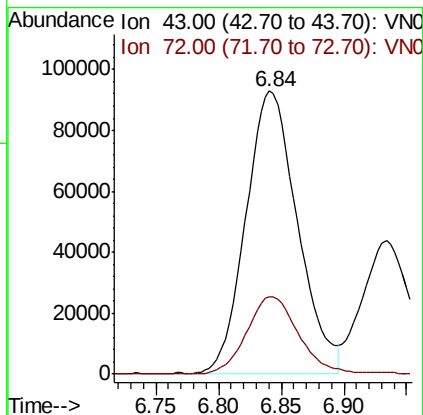
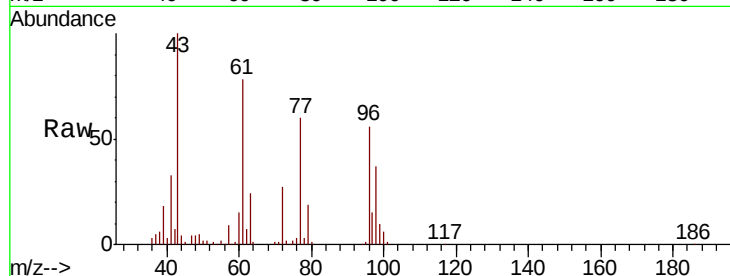
72 27.5 22.3 33.5

Manual Integrations

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8/24/2018 10:40:48 AM



#26

2,2-Dichloropropane

Concen: 18.96 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050842.D

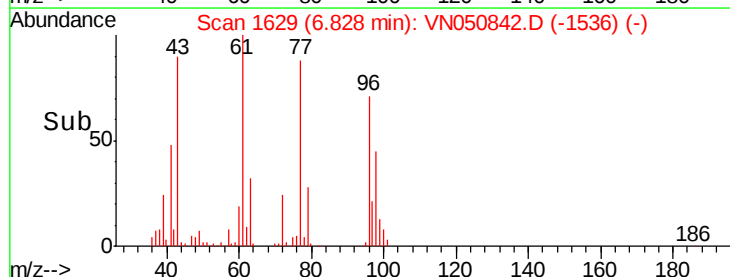
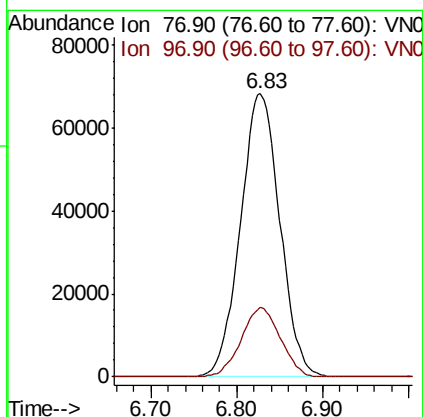
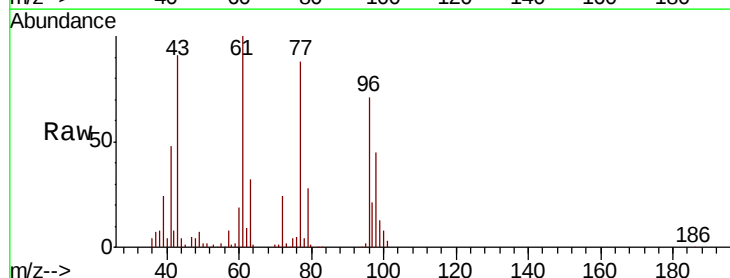
Acq: 23 Aug 2018 10:40

Tgt Ion: 77 Resp: 217114

Ion Ratio Lower Upper

77 100

97 24.4 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 20.23 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

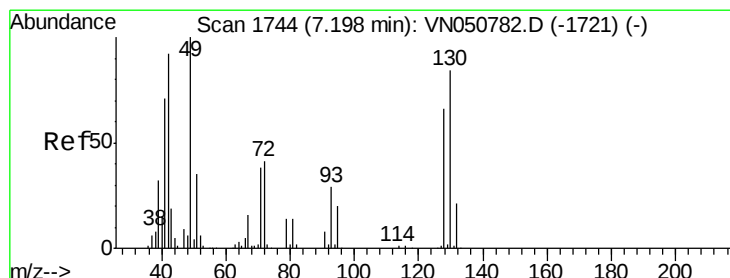
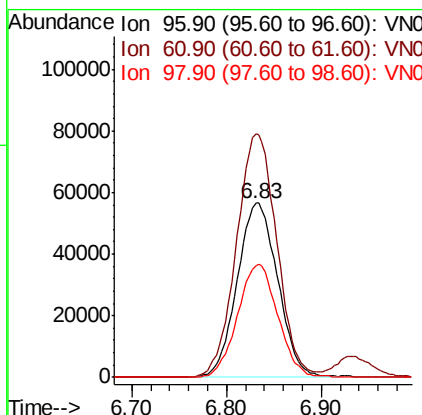
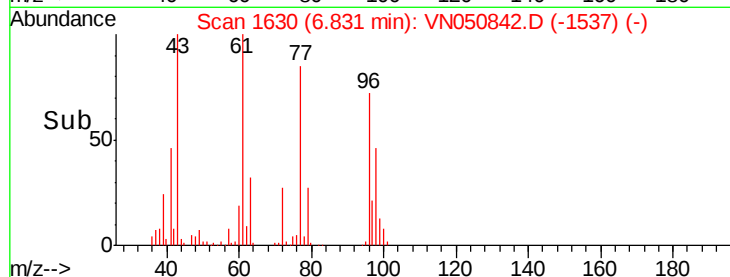
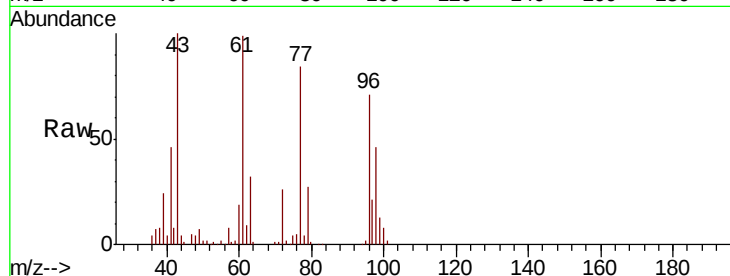
ClientSampleId :

VN0823WBSD01

Tot Ion:	96	Resp:	168562
Ion	Ratio	Lower	Upper
96	100		
61	138.7	0.0	283.4
98	64.3	0.0	129.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.59 ug/l

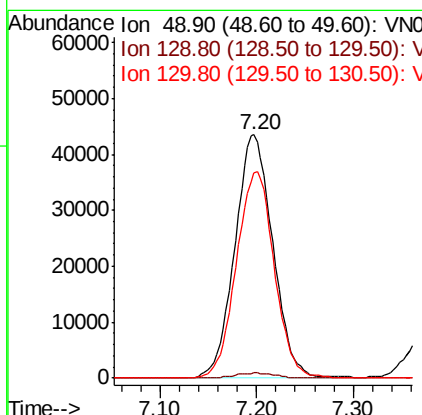
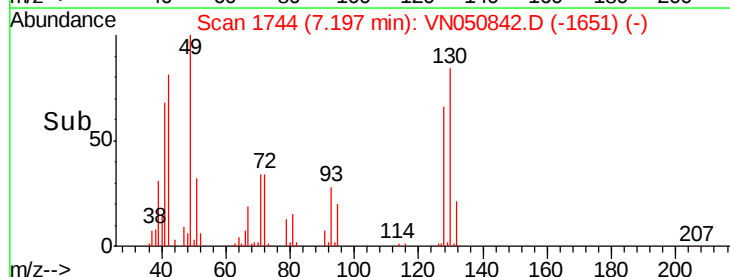
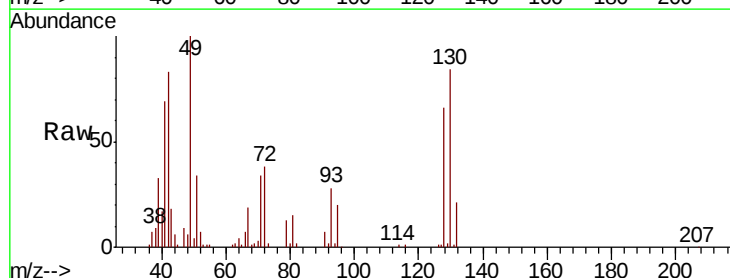
RT: 7.20 min Scan# 1744

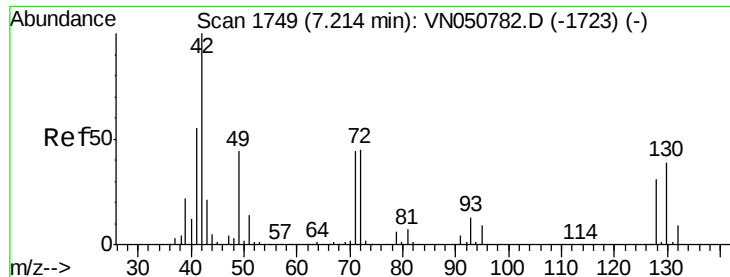
Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Tgt Ion:	49	Resp:	118628
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	84.7	67.1	100.7





#29

Tetrahydrofuran

Concen: 99.17 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

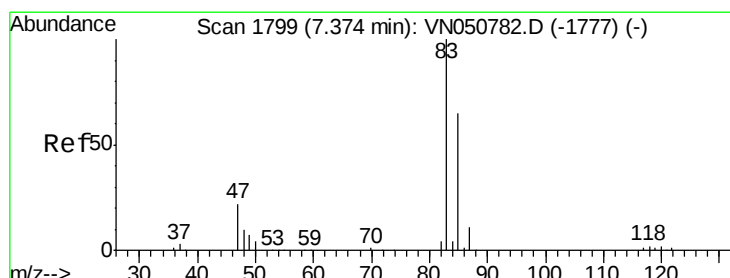
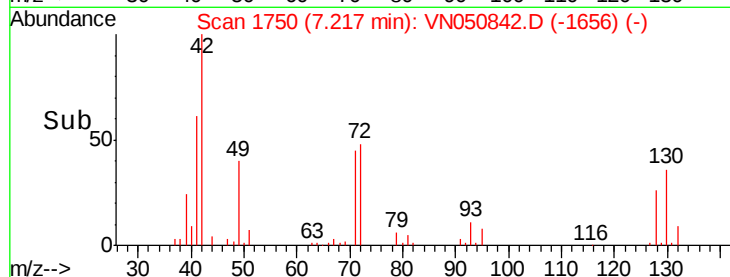
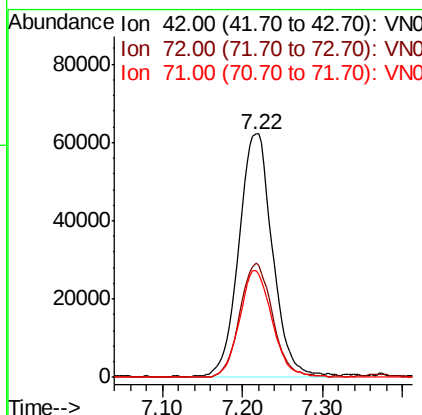
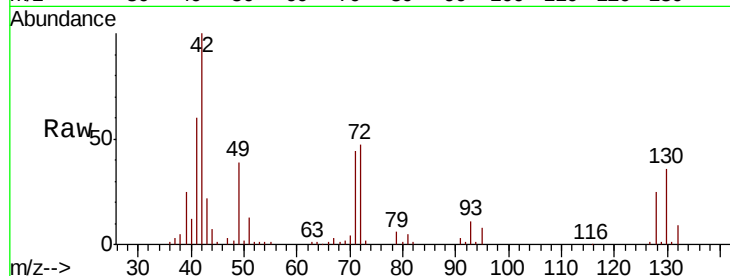
ClientSampleId :

VN0823WBSD01

Tot Ion:	42	Resp:	175542
Ion Ratio	Lower	Upper	
42	100		
72	46.1	35.5	53.3
71	42.8	33.7	50.5

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#30

Chloroform

Concen: 19.84 ug/l

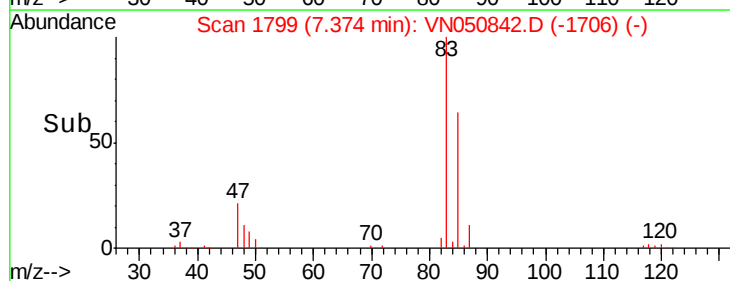
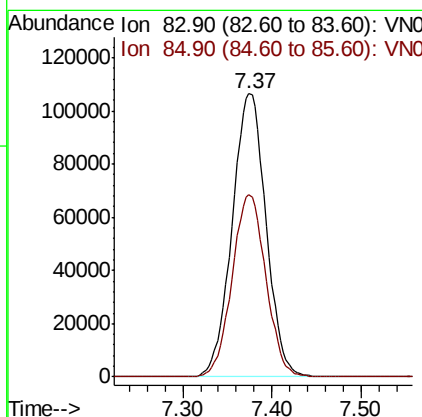
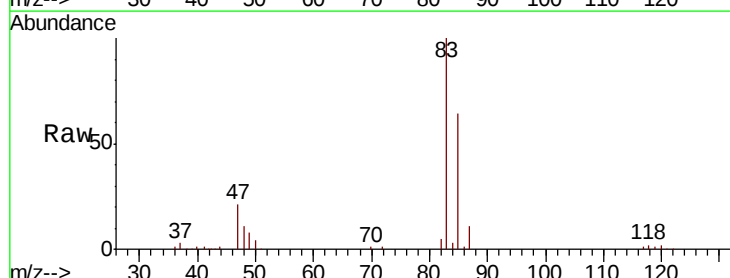
RT: 7.37 min Scan# 1799

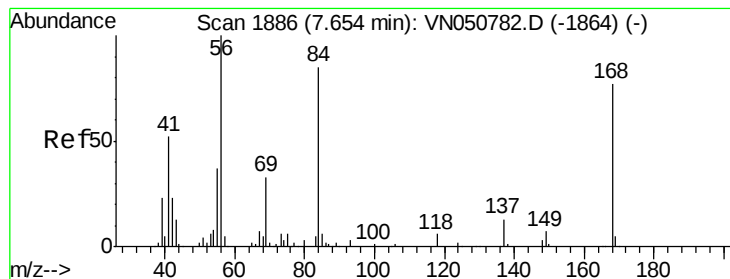
Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Tgt Ion:	83	Resp:	279909
Ion Ratio	Lower	Upper	
83	100		
85	64.3	52.2	78.4





#31

Cyclohexane

Concen: 19.28 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion: 56 Resp: 245939

Ion Ratio Lower Upper

56 100

69 36.4 26.2 39.4

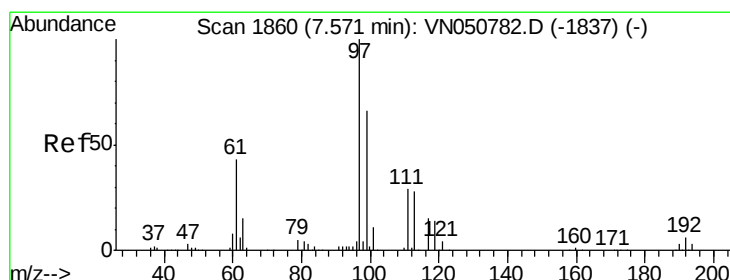
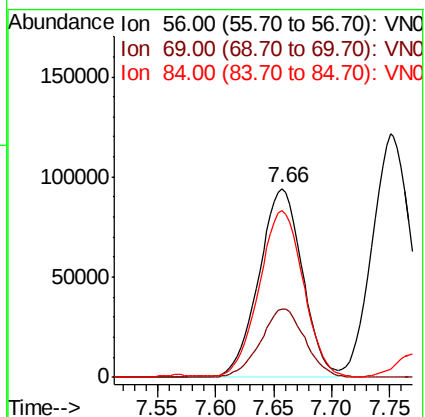
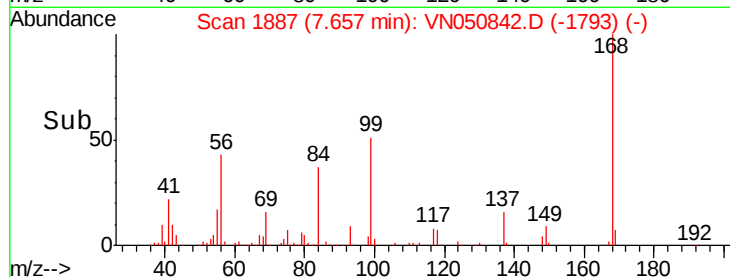
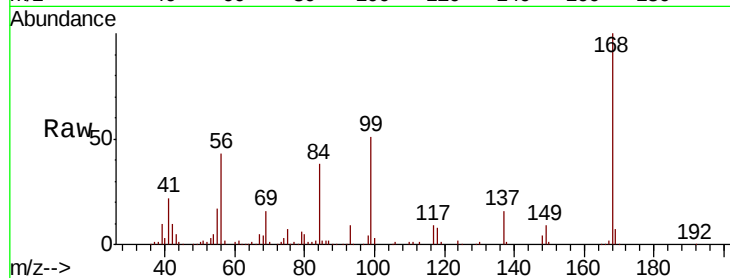
84 87.0 68.3 102.5

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 19.62 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

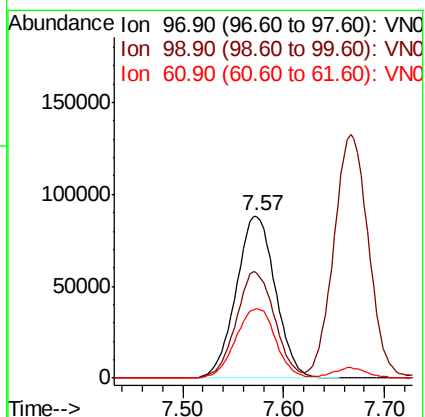
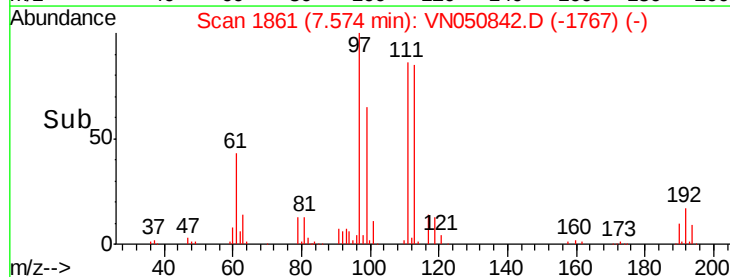
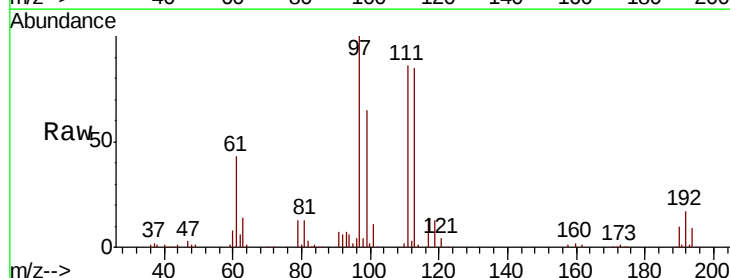
Tgt Ion: 97 Resp: 237790

Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

61 43.6 34.9 52.3





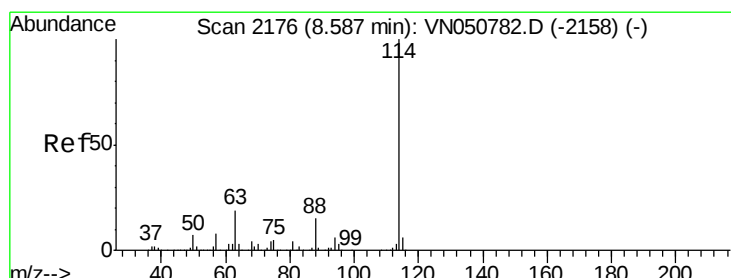
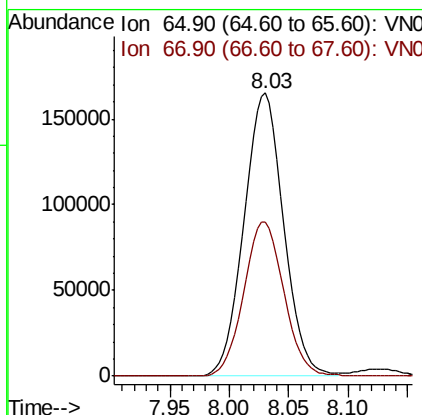
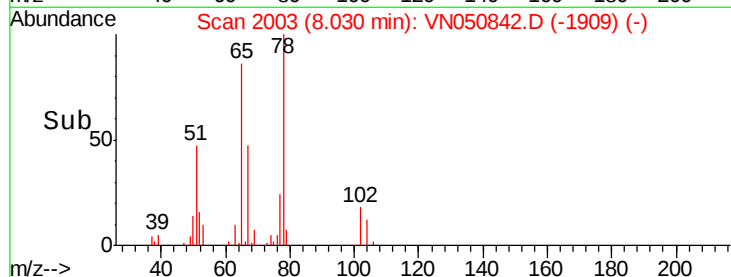
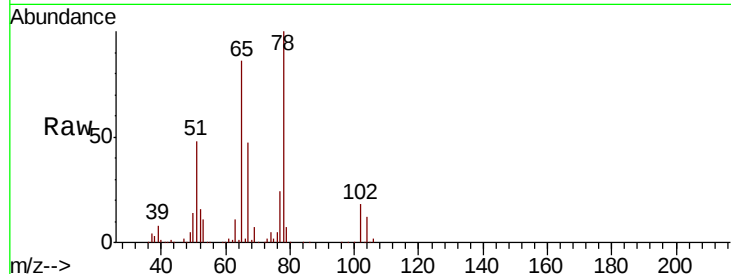
#33
 1,2-Dichloroethane-d4
 Concen: 49.79 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampled :
 VN0823WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.2	0.0	110.4	

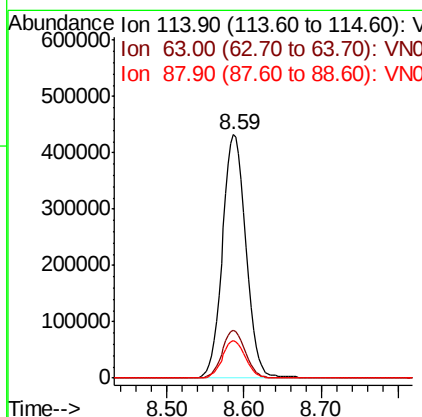
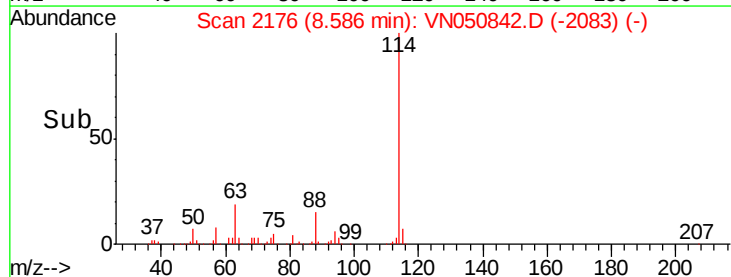
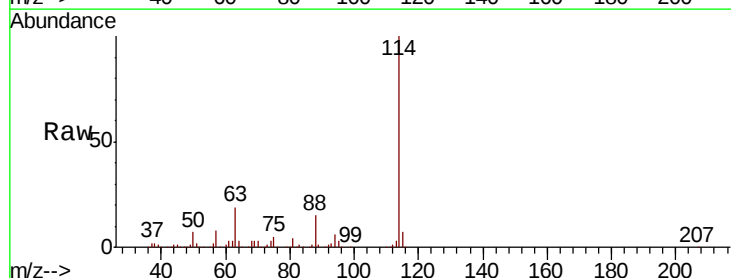
Manual Integrations
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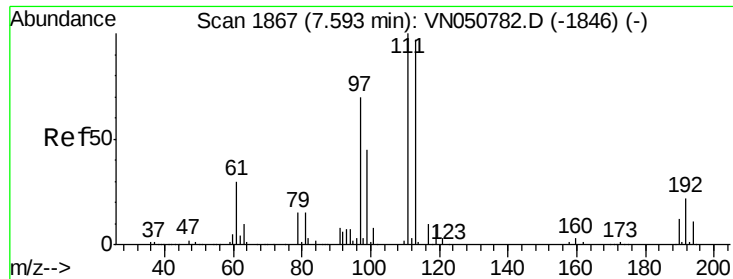
MMDadoda
 8/24/2018 10:40:48 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.5	0.0	38.6	
88	15.4	0.0	30.6	





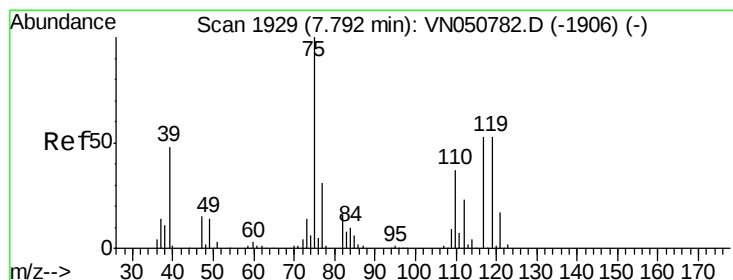
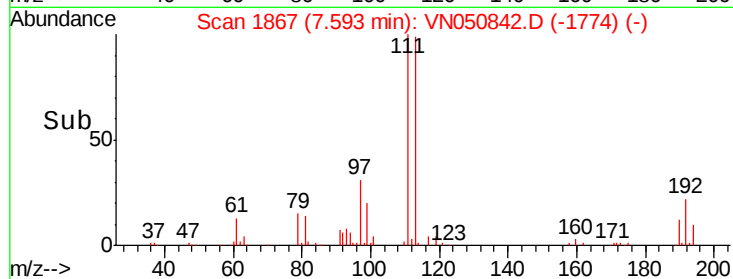
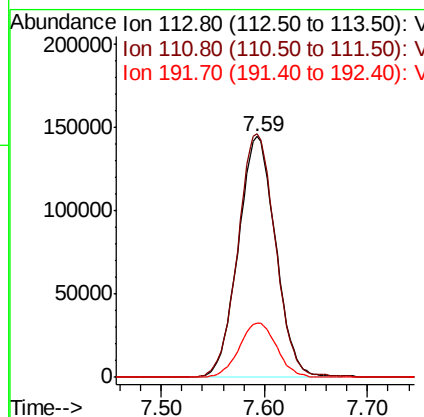
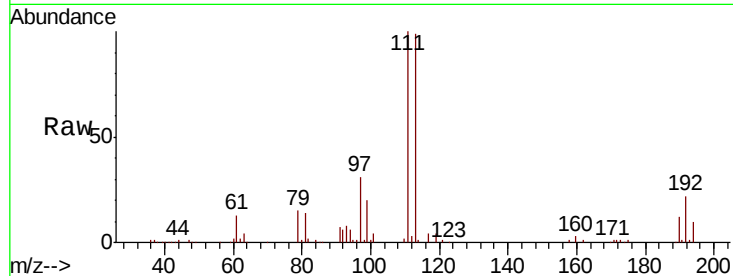
#35
 Dibromofluoromethane
 Concen: 50.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	363520		
111	101.9	82.6	123.8	
192	22.6	18.0	27.0	

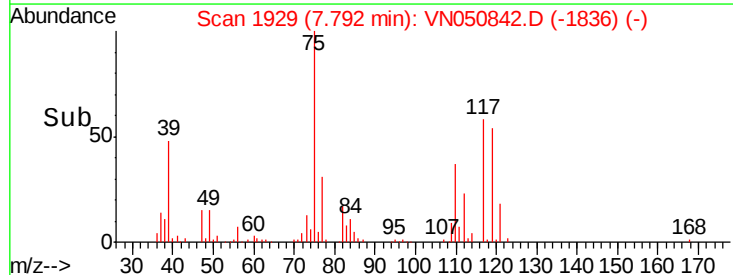
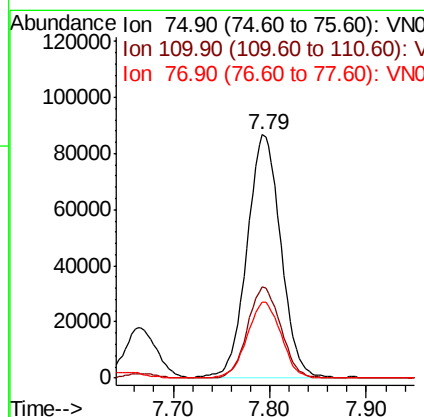
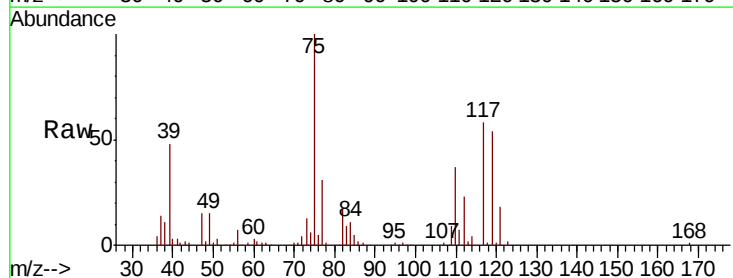
Manual Integrations
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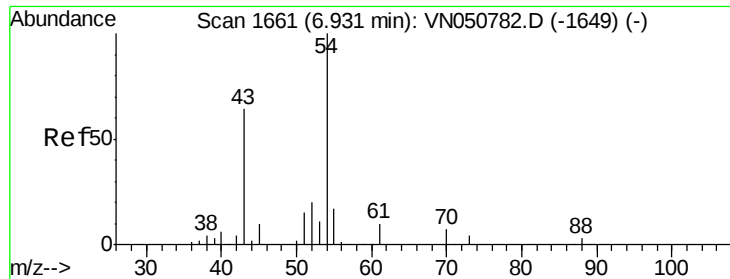
MMDadoda
 8/24/2018 10:40:48 AM



#36
 1,1-Dichloropropene
 Concen: 19.44 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	209054		
110	37.1	18.1	54.4	
77	31.0	24.8	37.2	





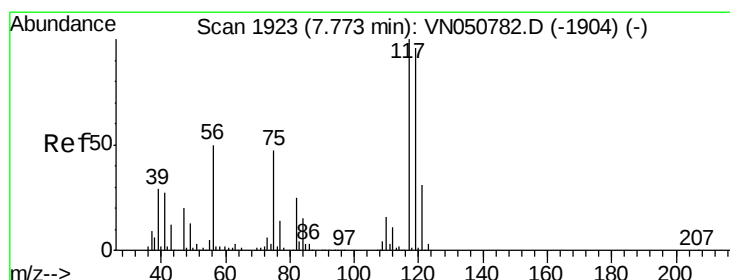
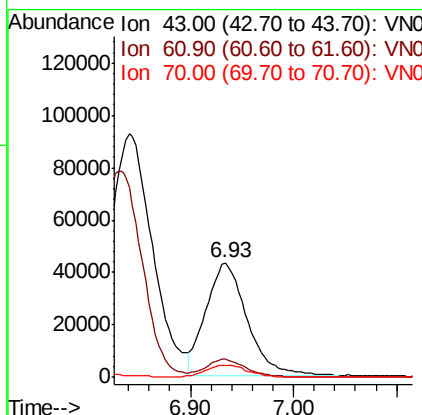
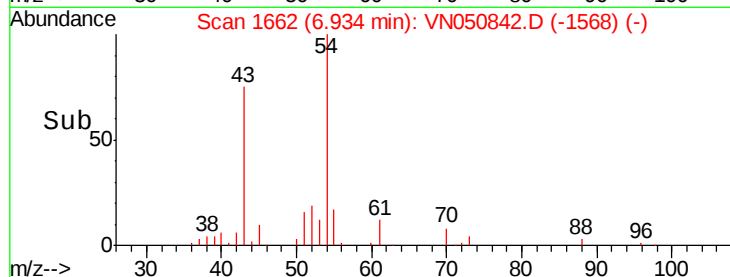
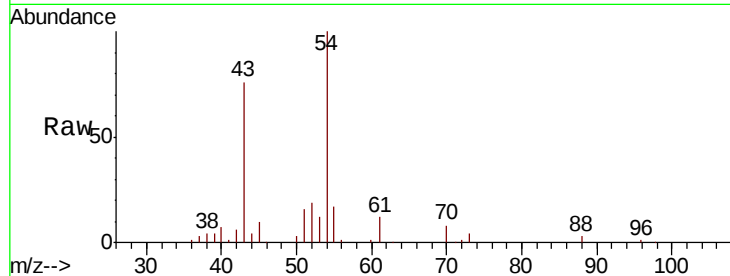
#37
Ethyl Acetate
Concen: 19.34 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	43	61	70	Resp	Lower	Upper
119473	100	14.7	11.3			
		12.0	8.6			
		18.0	13.0			

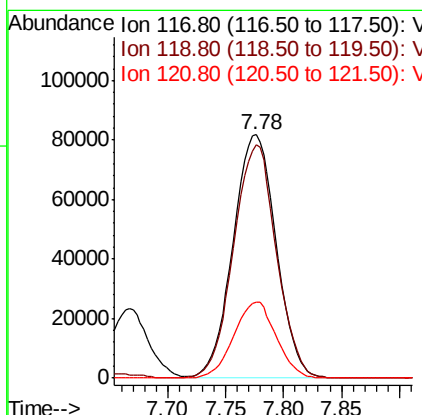
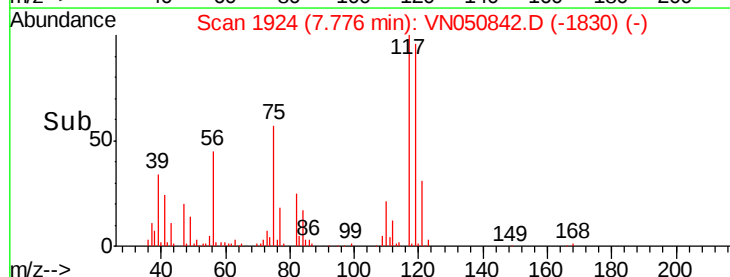
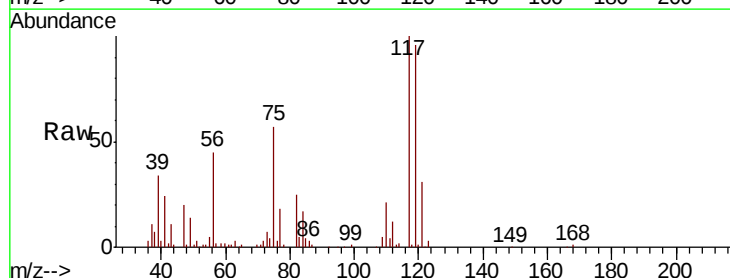
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 19.50 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	117	119	121	Resp	Lower	Upper
211974	100	95.6	31.4			
		76.3	24.6			
		114.5	36.8			





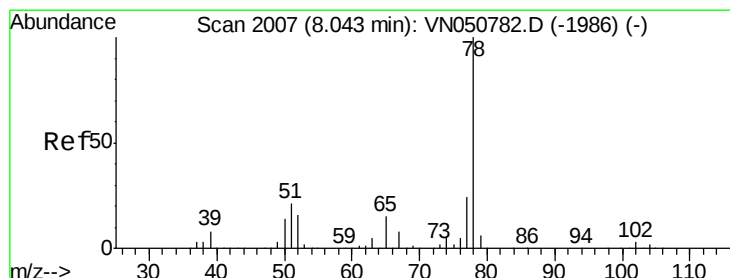
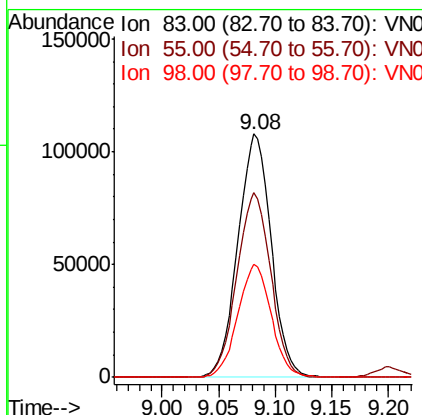
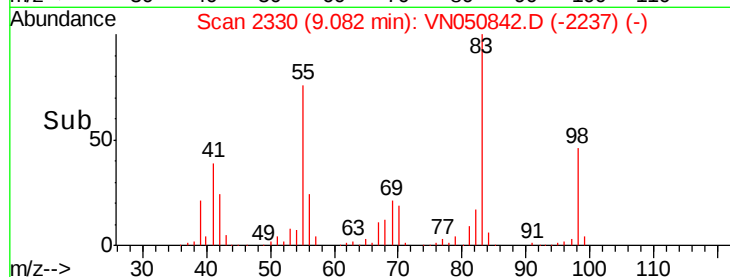
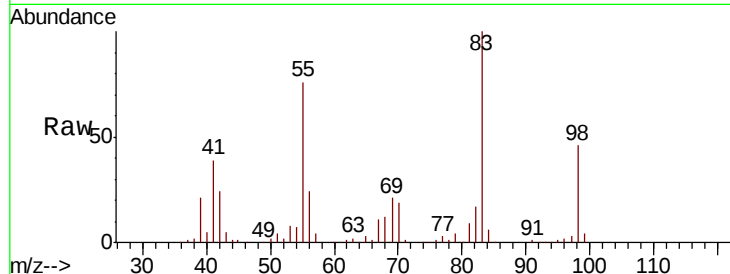
#39
Methvlcvclohexane
Concen: 19.02 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	76.1	61.0	91.4	
98	46.3	37.5	56.3	

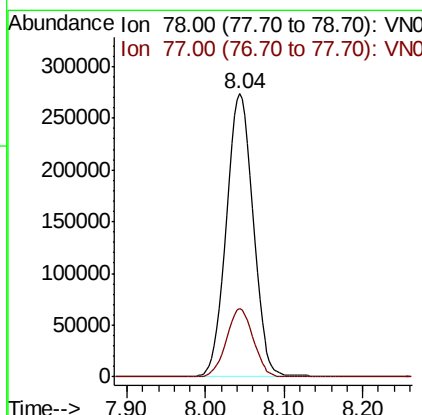
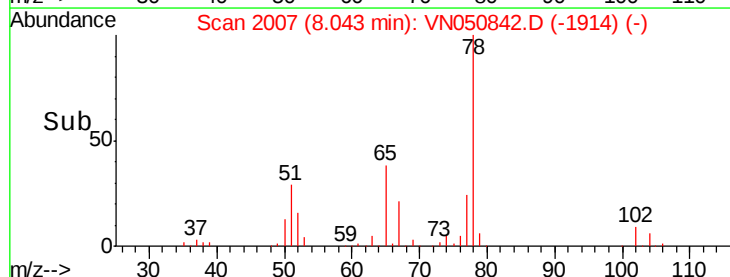
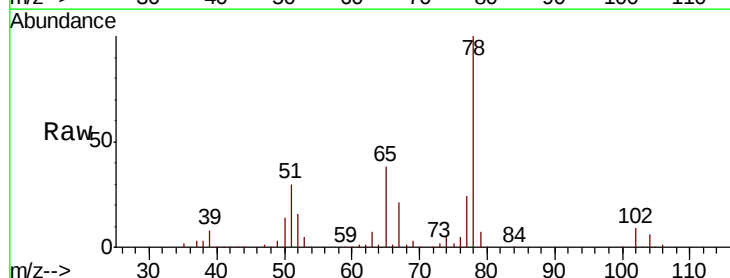
Manual Integrations
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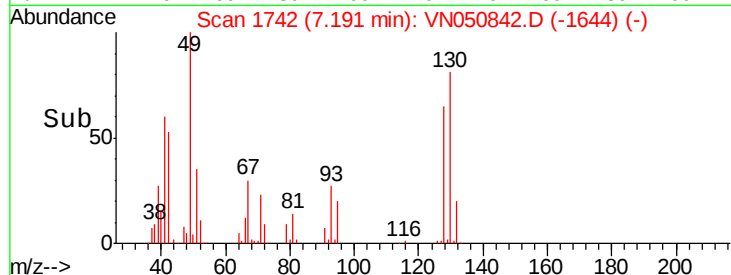
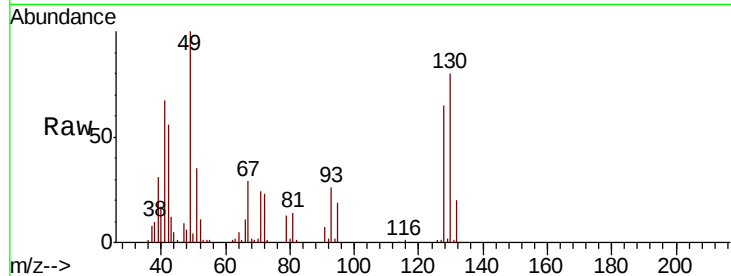
MMDadoda
8/24/2018 10:40:48 AM



#40
Benzene
Concen: 19.99 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.3	19.0	28.4	





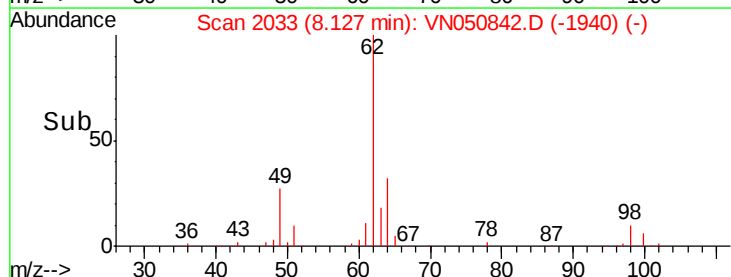
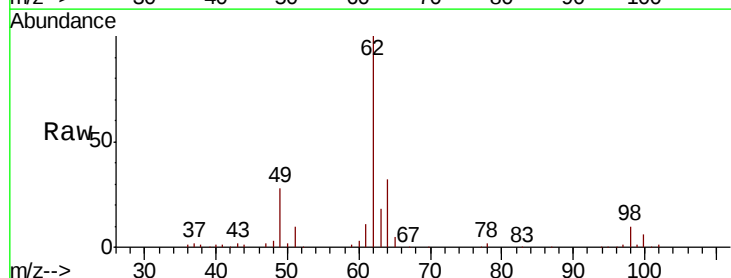
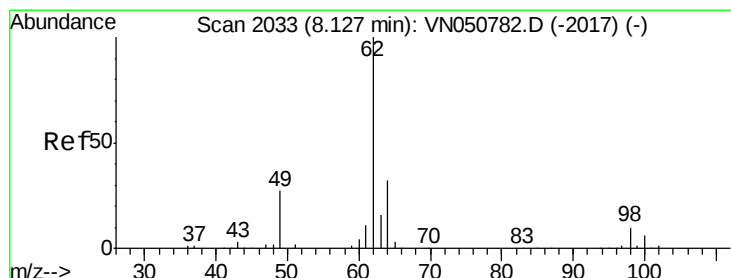
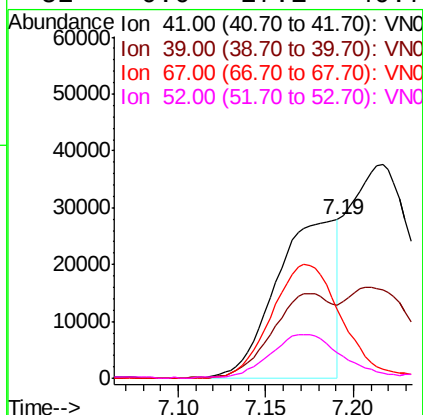
#41
Methacrylonitrile
Concen: 20.39 ug/l m
RT: 7.19 min Scan# 1742
Delta R.T. 0.02 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.4	68.0#
67	0.0	70.6	106.0#
52	0.0	27.1	40.7#

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

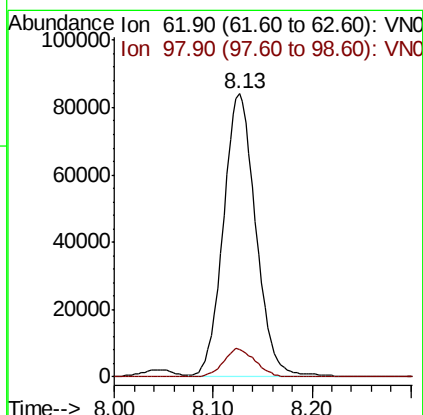
Manual Integrations
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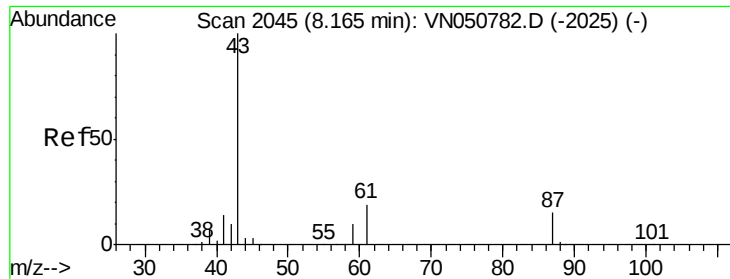
MMDadoda
8/24/2018 10:40:48 AM



#42
1,2-Dichloroethane
Concen: 19.81 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.6





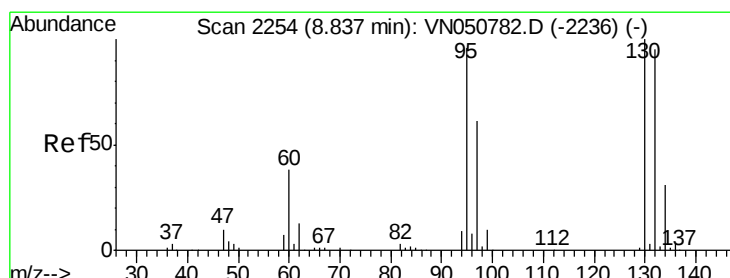
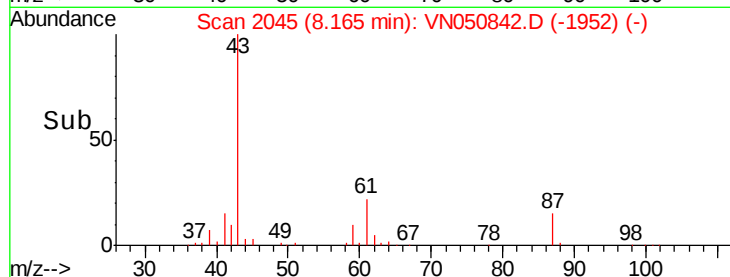
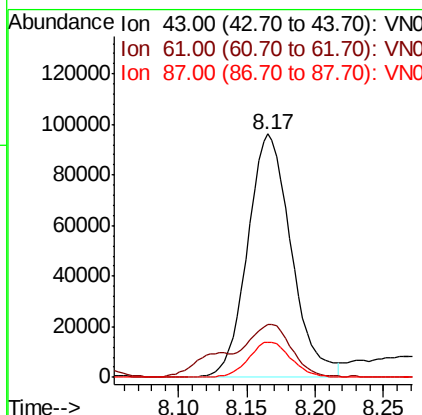
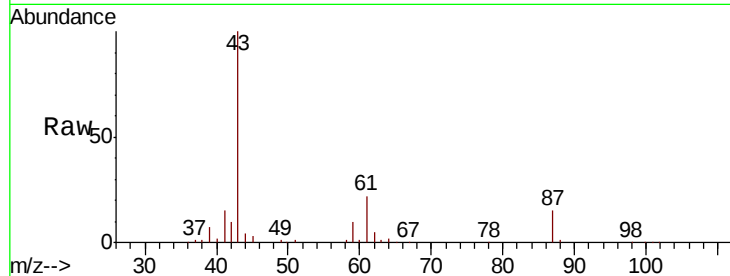
#43
Isopropyl Acetate
Concen: 19.96 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.8	17.5	26.3
87	14.1	11.3	16.9

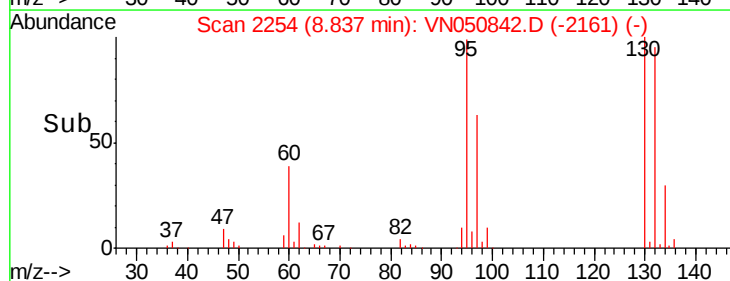
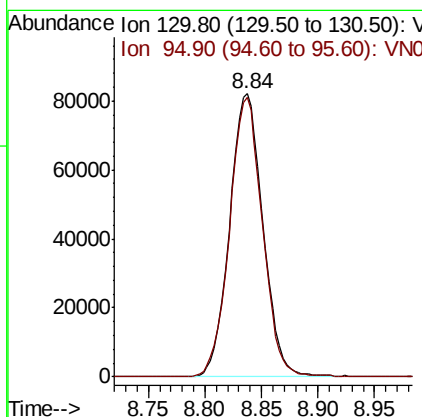
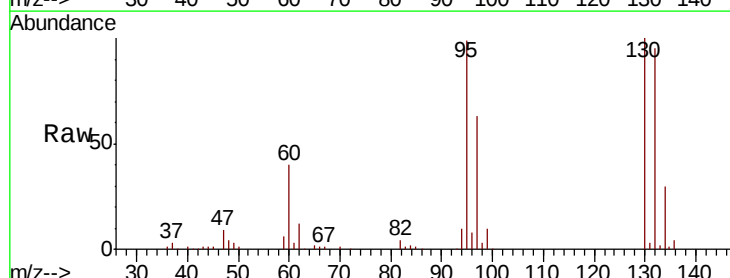
Manual Integrations
APPROVED

MMDadoda
8/24/2018 10:40:48 AM



#44
Trichloroethene
Concen: 19.70 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	193.0





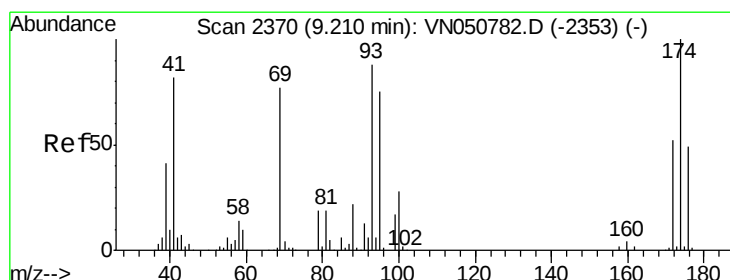
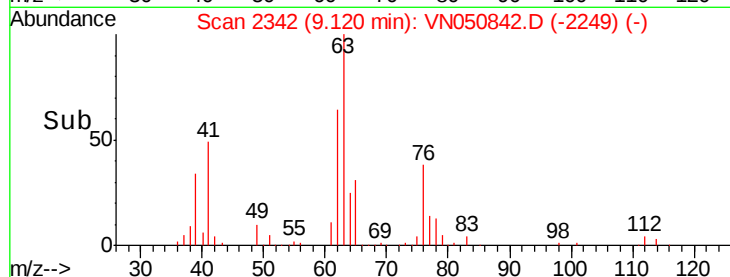
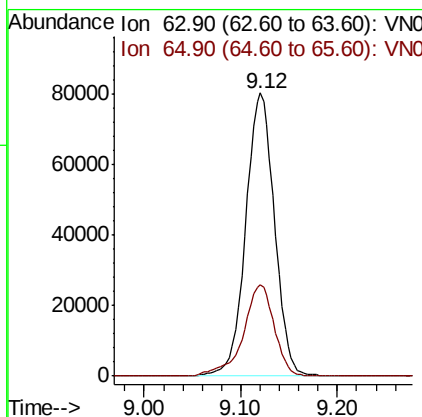
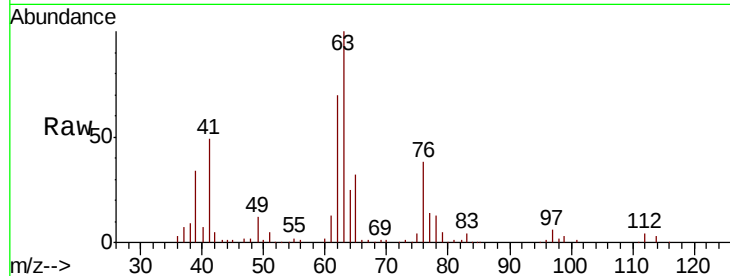
#45
 1,2-Dichloropropane
 Concen: 19.40 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion: 63 Resp: 165395
 Ion Ratio Lower Upper
 63 100
 65 32.1 25.0 37.6

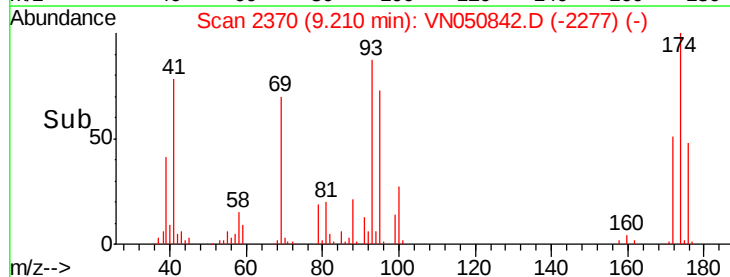
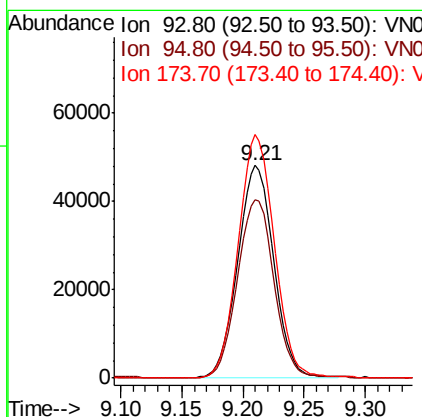
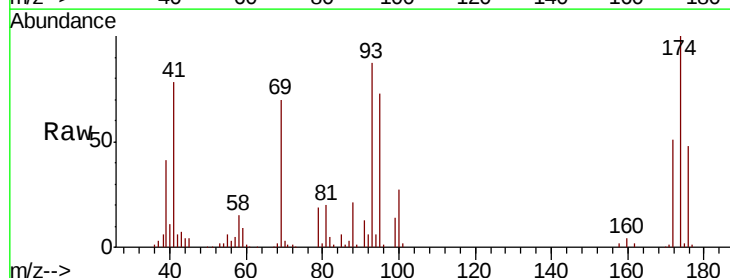
Manual Integrations
 APPROVED

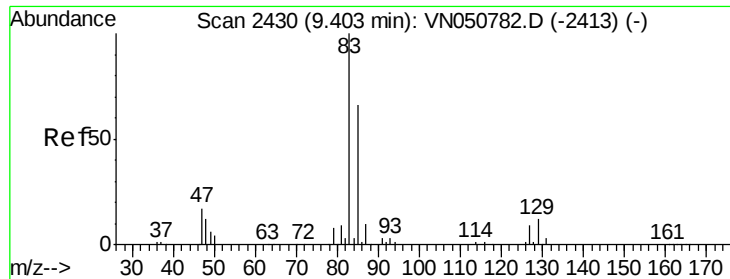
MMDadoda
 8/24/2018 10:40:48 AM



#46
 Dibromomethane
 Concen: 19.70 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion: 93 Resp: 98667
 Ion Ratio Lower Upper
 93 100
 95 85.2 66.7 100.1
 174 114.2 89.8 134.6





#47

Bromodichloromethane

Concen: 19.78 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

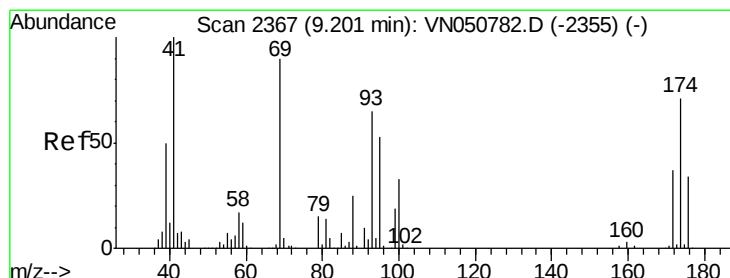
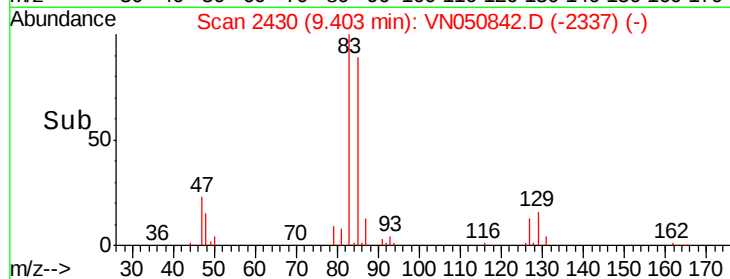
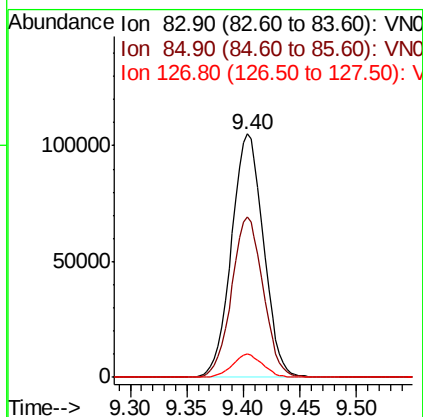
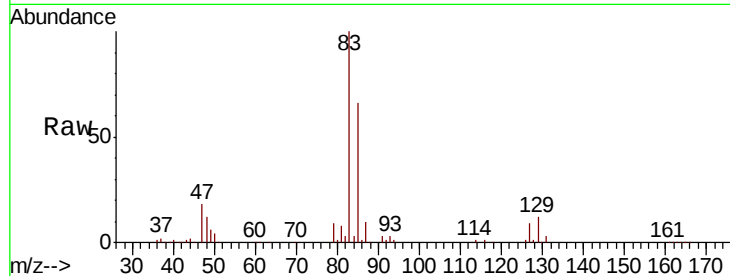
ClientSampleId :

VN0823WBSD01

Tot Ion:	83	Resp:	207482
Ion Ratio	Lower	Upper	
83	100		
85	66.0	52.6	78.8
127	9.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
8/24/2018 10:40:48 AM



#48

Methyl methacrylate

Concen: 19.18 ug/l

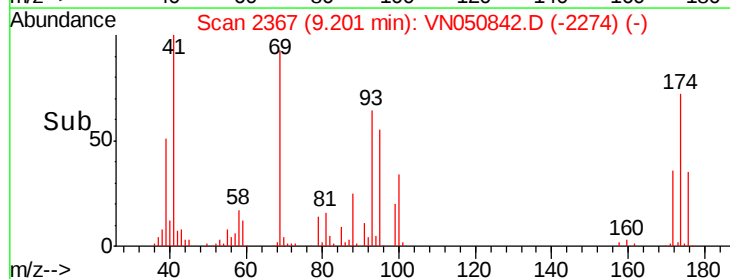
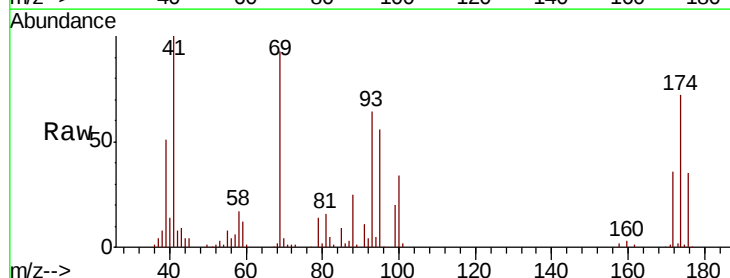
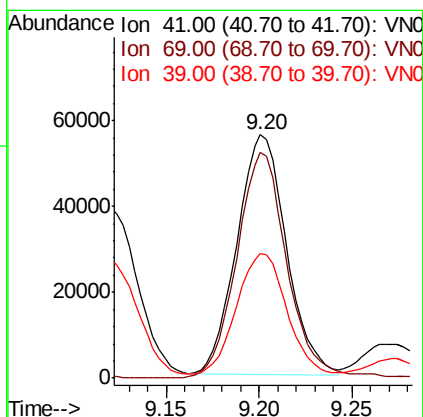
RT: 9.20 min Scan# 2367

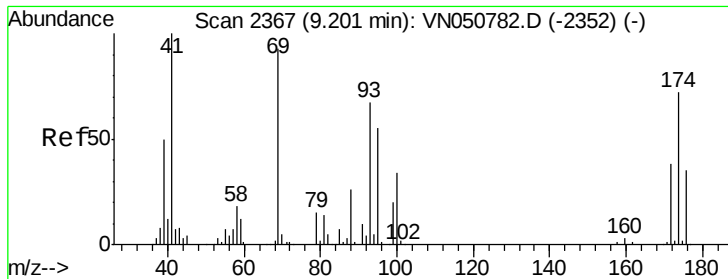
Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Tgt Ion:	41	Resp:	103859
Ion Ratio	Lower	Upper	
41	100		
69	96.6	74.7	112.1
39	53.9	42.2	63.2





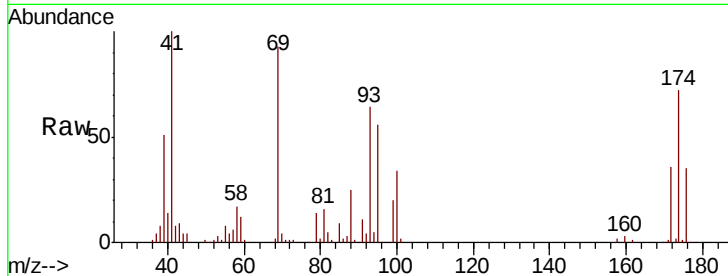
#49
1,4-Dioxane
Concen: 398.43 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.8	25.9	38.9
58	70.7	55.0	82.4

Manual Integrations
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8/24/2018 10:40:48 AM

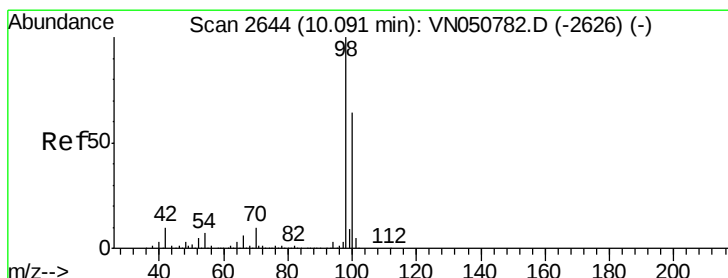
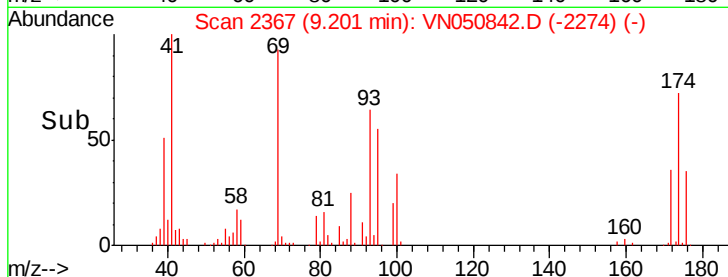
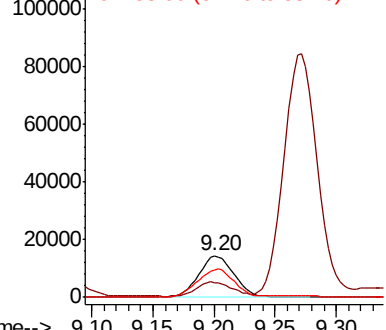


Abundance

Ion 88.00 (87.70 to 88.70): VN0

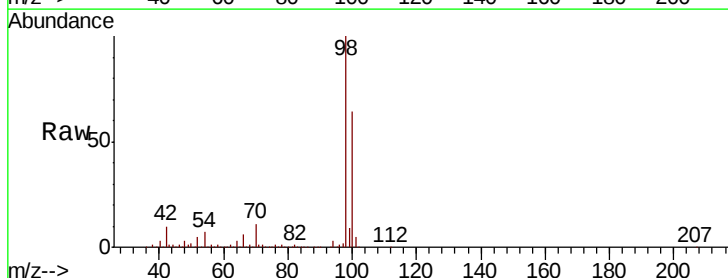
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 50.67 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

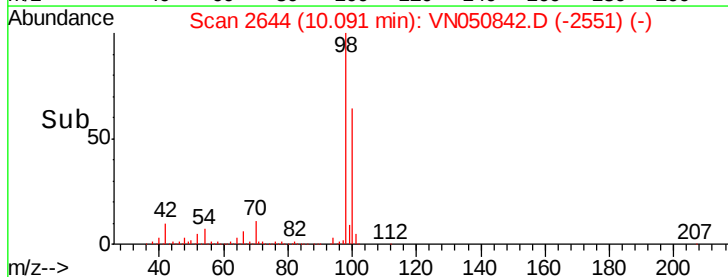
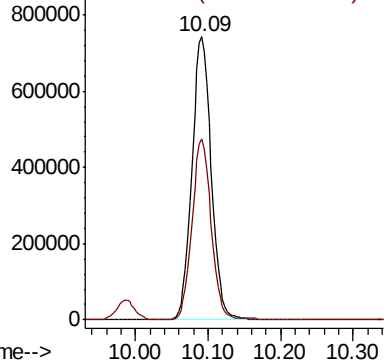
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.5	77.3

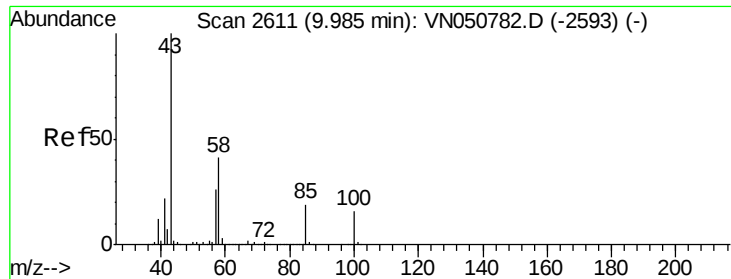


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 94.87 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampled :

VN0823WBSD01

Tot Ion: 43 Resp: 601443

Ion Ratio Lower Upper

43 100

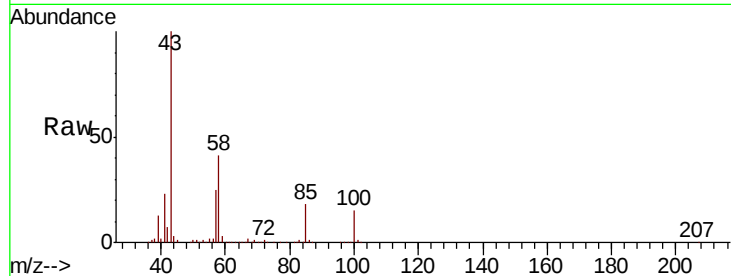
58 40.6 32.4 48.6

Manual Integrations

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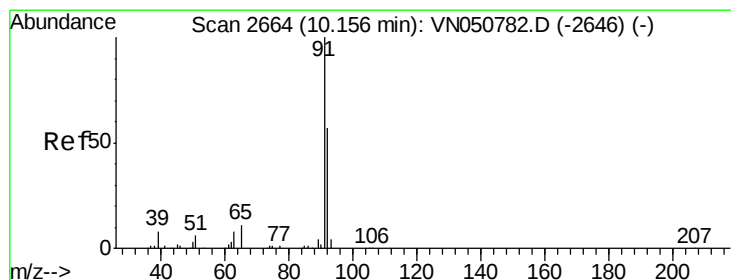
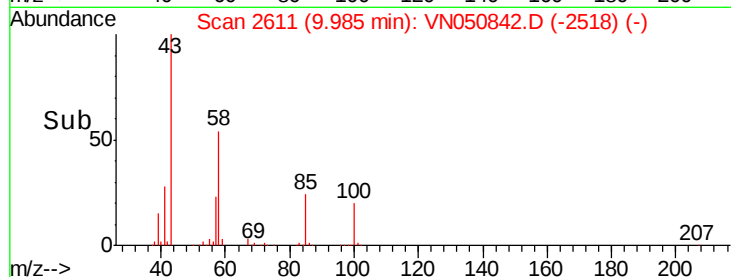
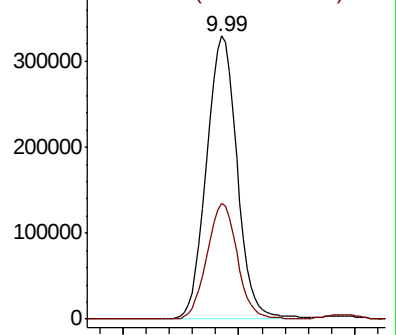
MMDadoda

8/24/2018 10:40:48 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.48 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050842.D

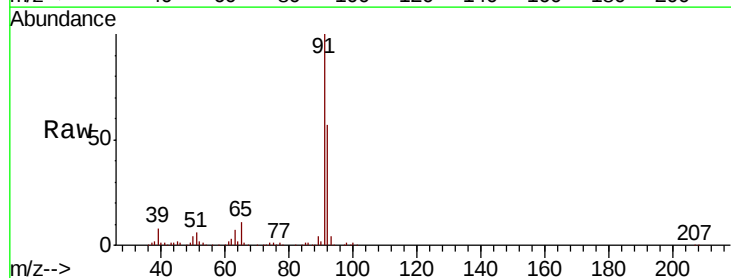
Acq: 23 Aug 2018 10:40

Tgt Ion: 92 Resp: 393396

Ion Ratio Lower Upper

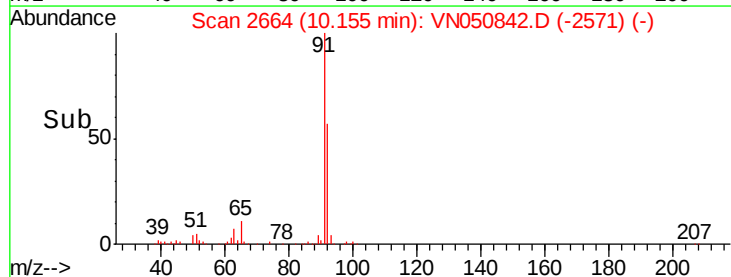
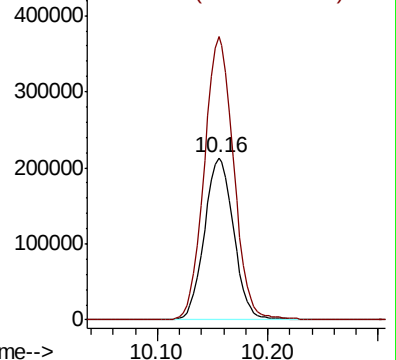
92 100

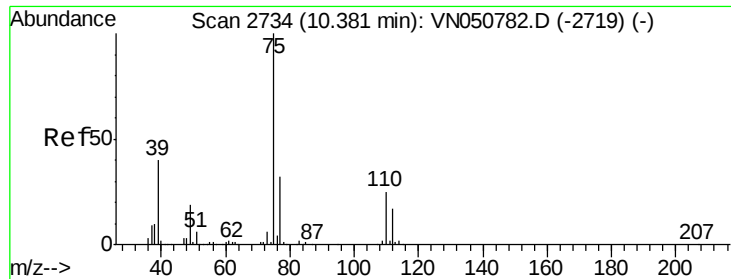
91 175.3 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





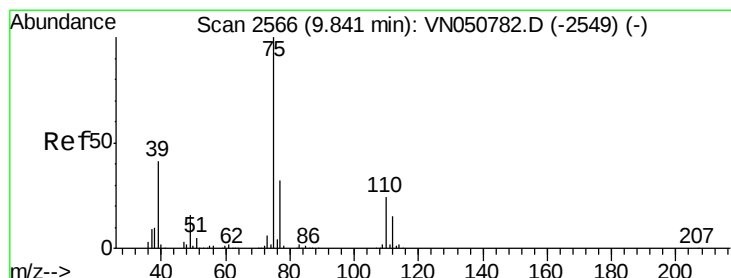
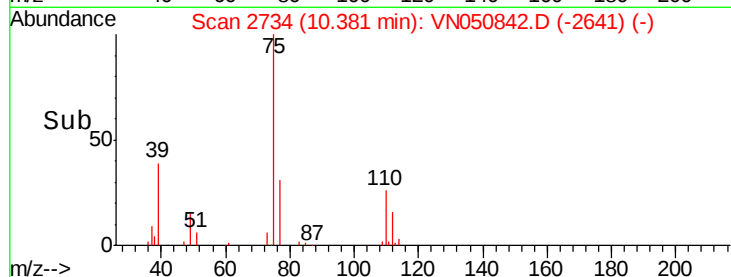
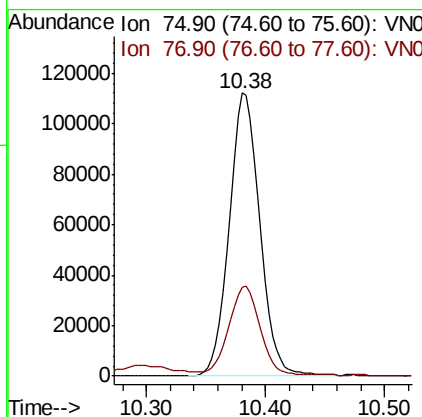
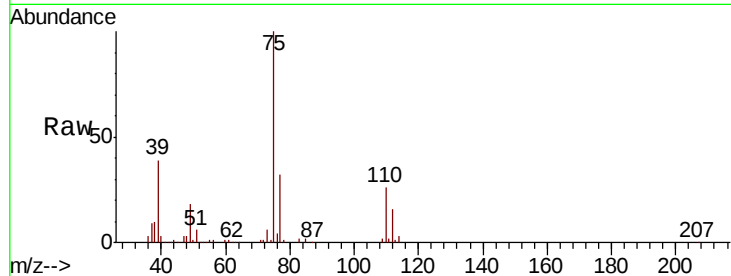
#53
t-1,3-Dichloropropene
Concen: 19.19 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampled :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.7	38.5

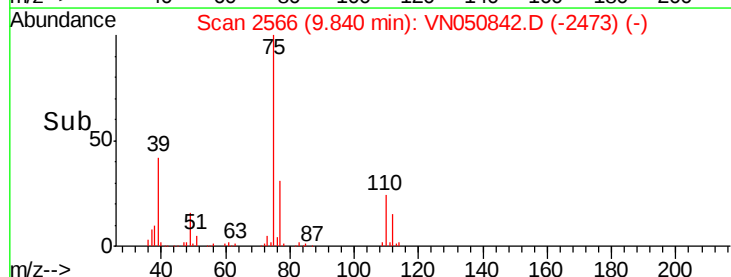
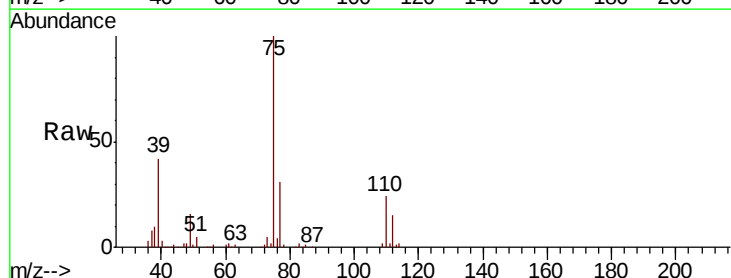
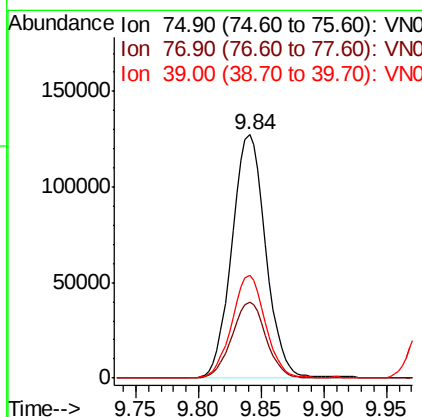
Manual Integrations
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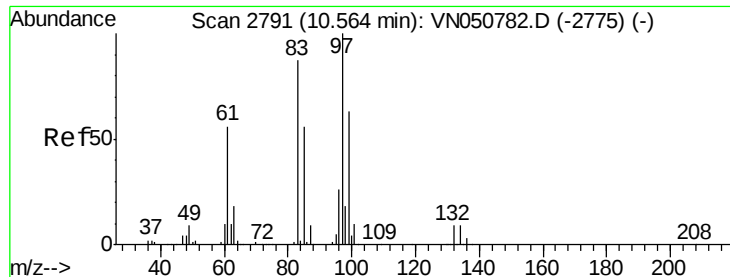
MMDadoda
8/24/2018 10:40:48 AM



#54
cis-1,3-Dichloropropene
Concen: 20.00 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.2
39	41.9	33.0	49.4





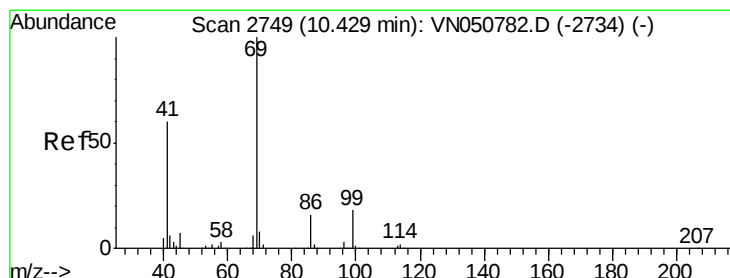
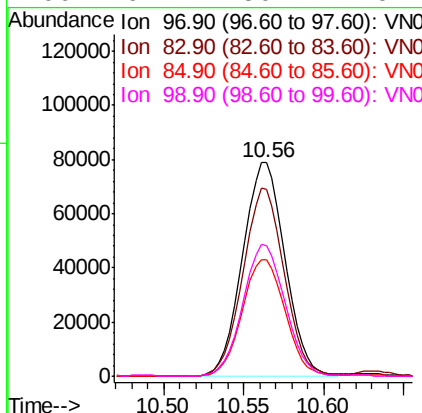
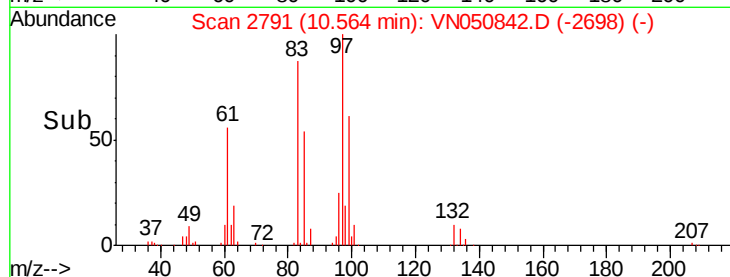
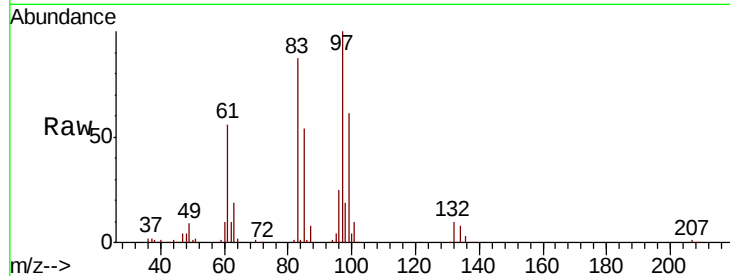
#55
 1,1,2-Trichloroethane
 Concen: 20.04 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		142908		
83	87.4	69.7	104.5		
85	54.4	44.5	66.7		
99	61.2	50.7	76.1		

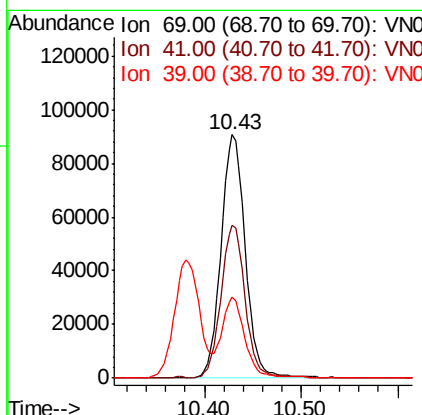
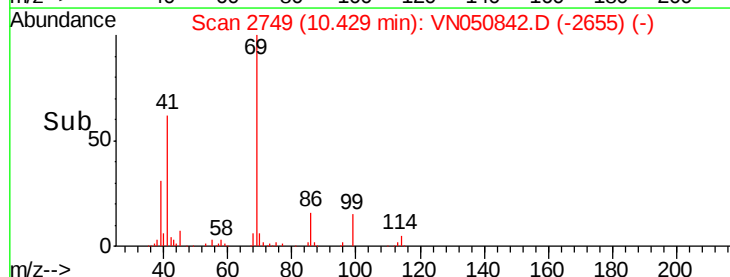
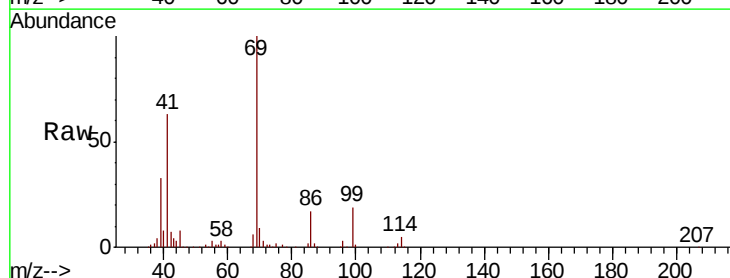
Manual Integrations
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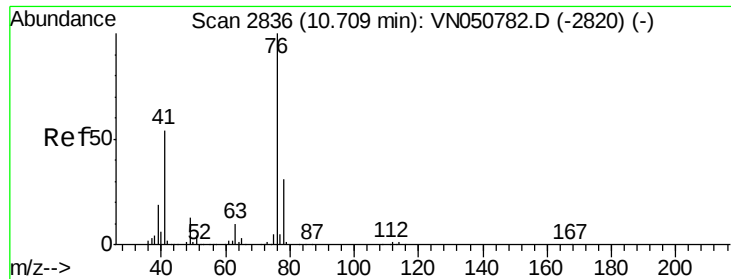
MMDadoda
 8/24/2018 10:40:48 AM



#56
 Ethyl methacrylate
 Concen: 18.58 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		157987		
41	61.7	48.3	72.5		
39	31.8	24.0	36.0		





#57

1,3-Dichloropropane

Concen: 20.14 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion: 76 Resp: 237109

Ion Ratio Lower Upper

76 100

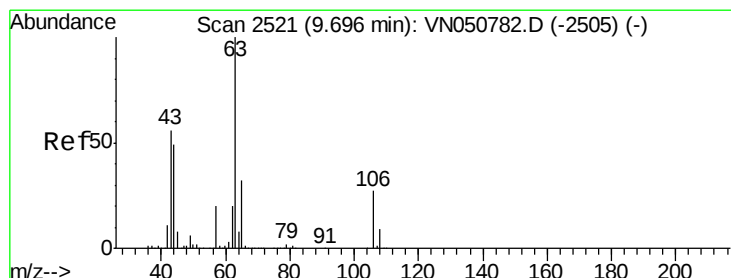
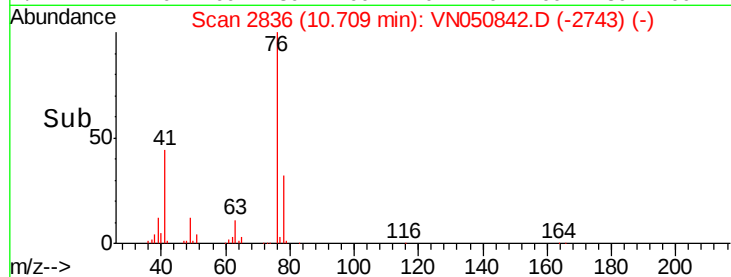
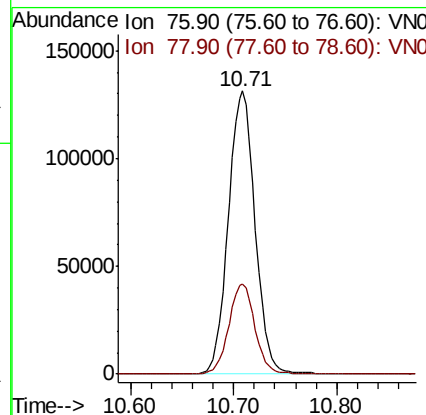
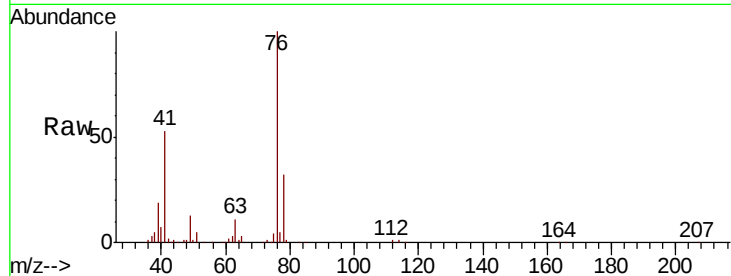
78 31.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

8/24/2018 10:40:48 AM



#58

2-Chloroethyl Vinyl ether

Concen: 95.34 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN050842.D

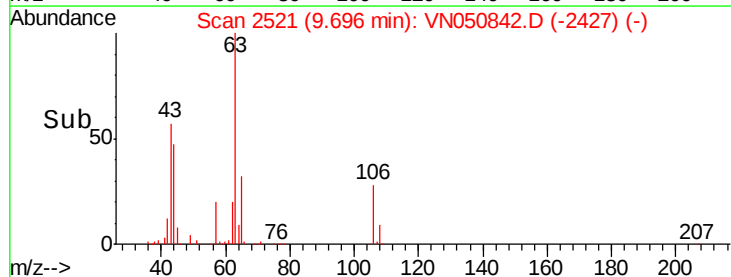
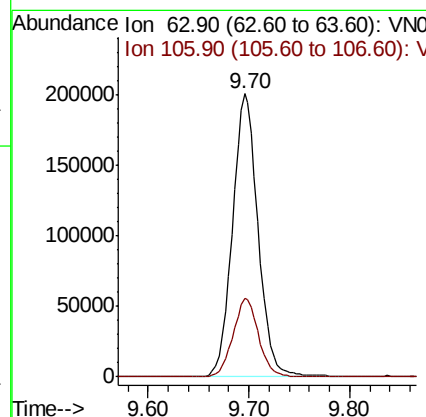
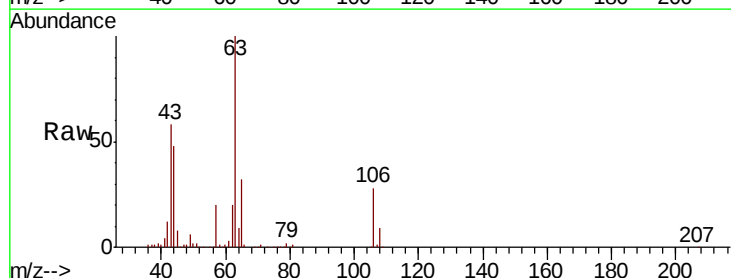
Acq: 23 Aug 2018 10:40

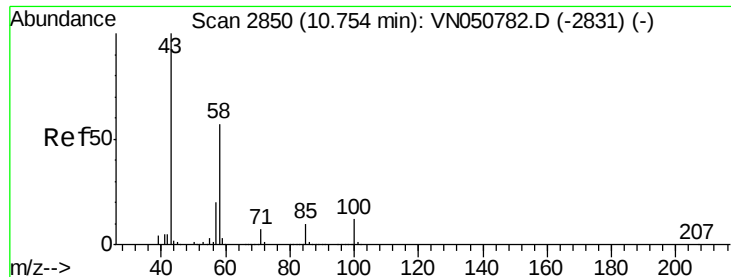
Tgt Ion: 63 Resp: 353739

Ion Ratio Lower Upper

63 100

106 27.6 21.9 32.9





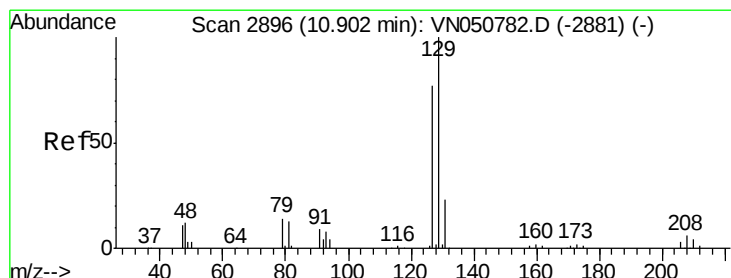
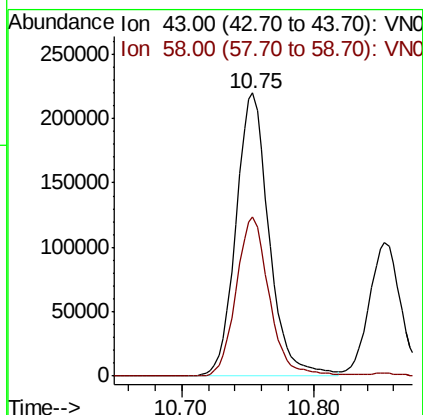
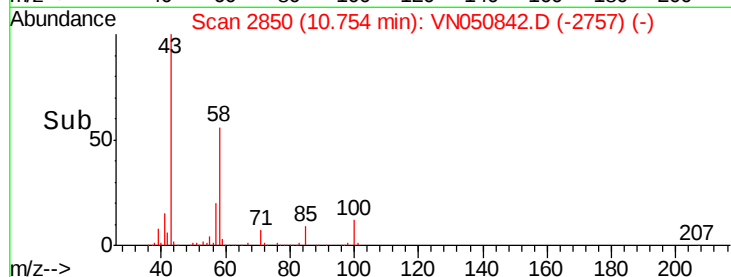
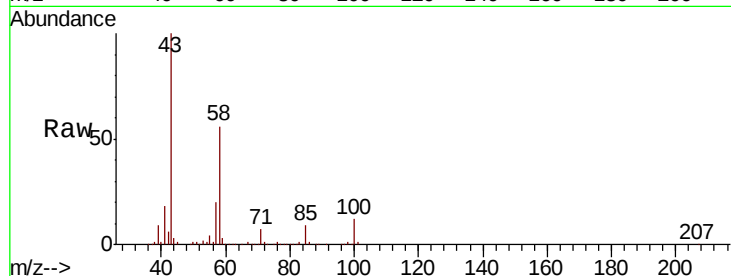
#59
2-Hexanone
Concen: 89.66 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	43	Resp	378366
Ion Ratio	Lower	Upper	
43	100		
58	56.7	28.3	85.0

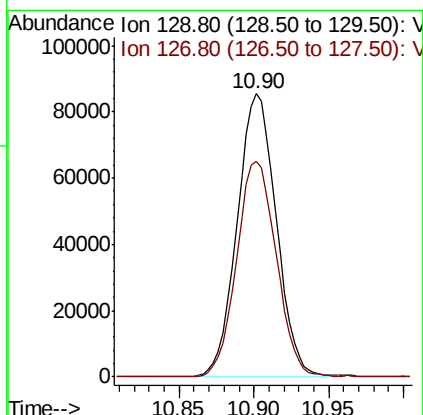
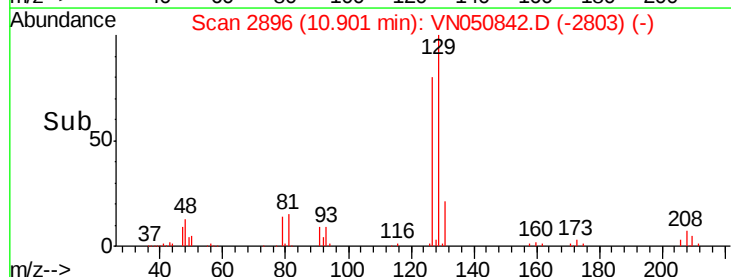
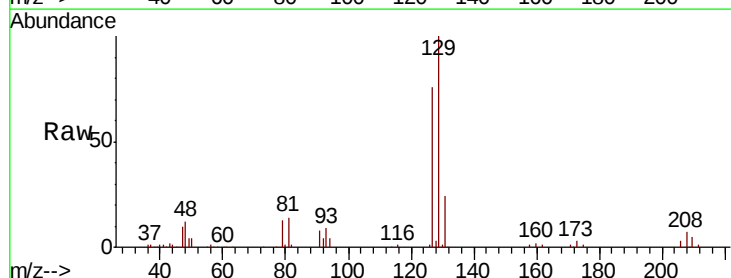
Manual Integrations
APPROVED

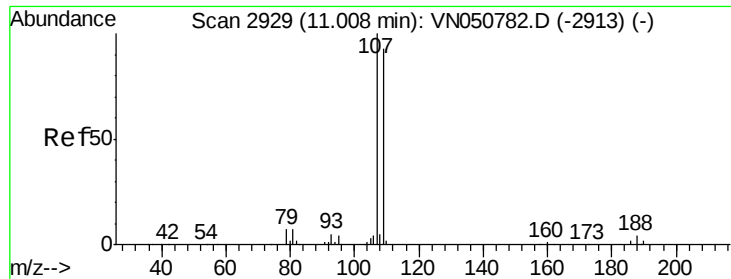
MMDadoda
8/24/2018 10:40:48 AM



#60
Dibromochloromethane
Concen: 19.48 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	129	Resp	155570
Ion Ratio	Lower	Upper	
129	100		
127	77.2	38.3	114.9





#61

1,2-Dibromoethane

Concen: 19.66 ug/l

RT: 11.00 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion: 107 Resp: 135589

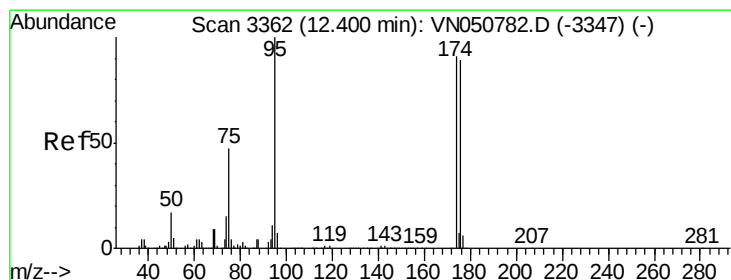
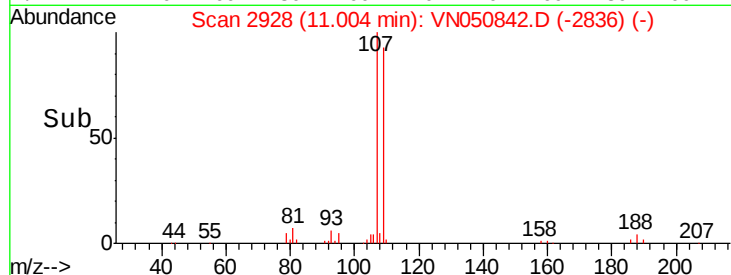
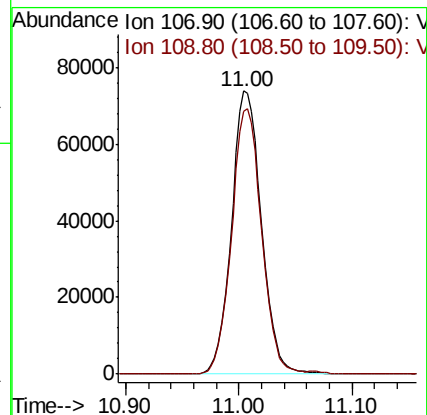
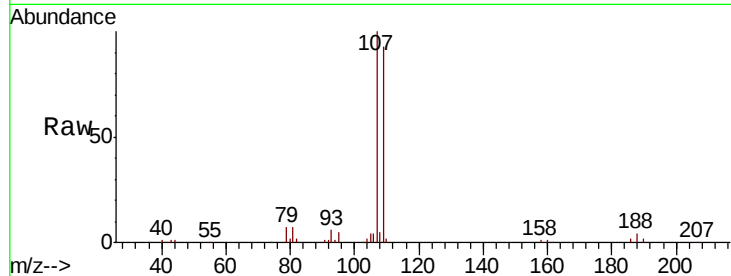
Ion Ratio Lower Upper

107 100

109 94.1 75.4 113.2

Manual Integrations
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MMDadoda
8/24/2018 10:40:48 AM



#62

4-Bromofluorobenzene

Concen: 47.96 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

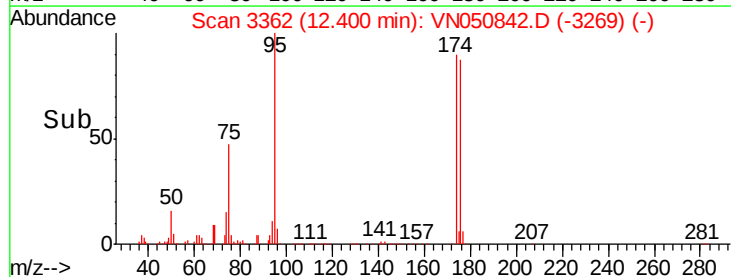
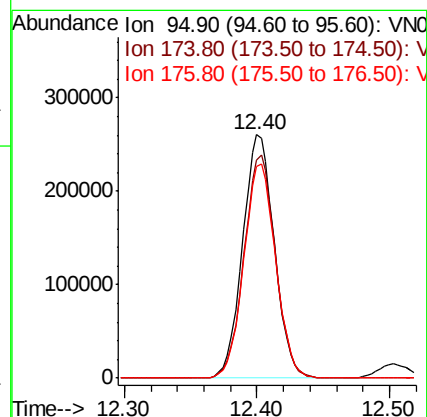
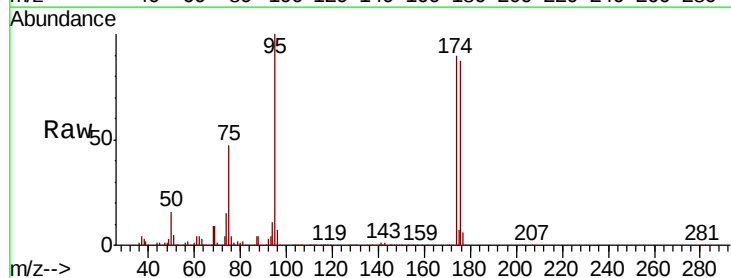
Tgt Ion: 95 Resp: 432041

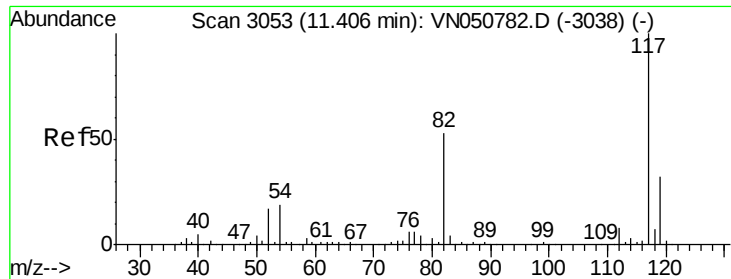
Ion Ratio Lower Upper

95 100

174 91.0 0.0 183.0

176 88.3 0.0 178.8





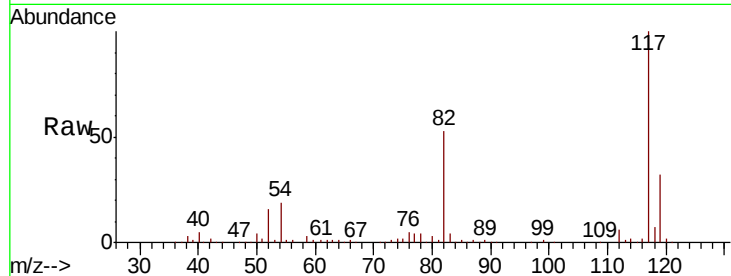
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.6	64.0
119	32.5	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
8/24/2018 10:40:48 AM

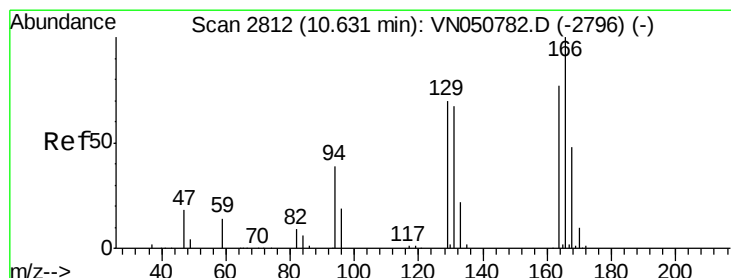
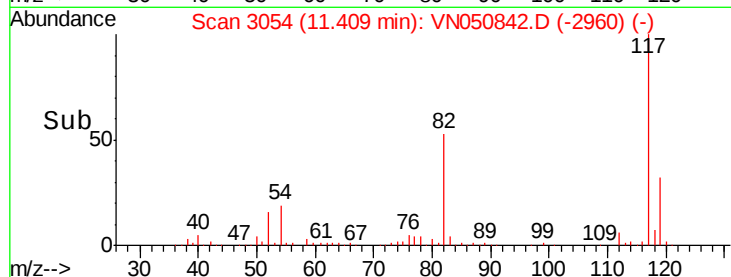
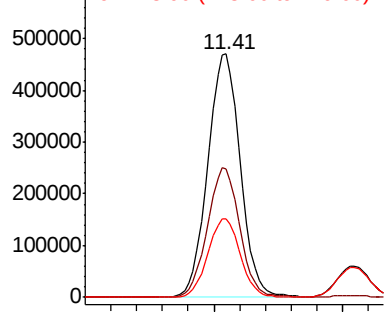


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.36 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.9	103.5	155.3
129	90.3	72.7	109.1
131	87.6	69.5	104.3

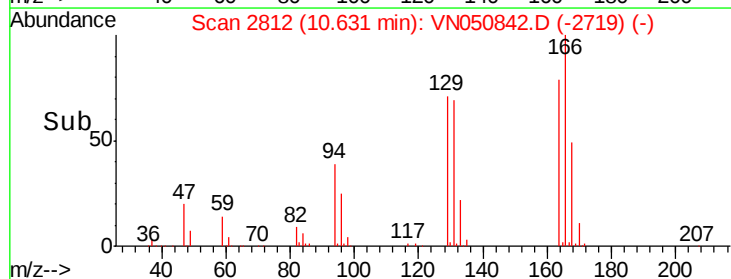
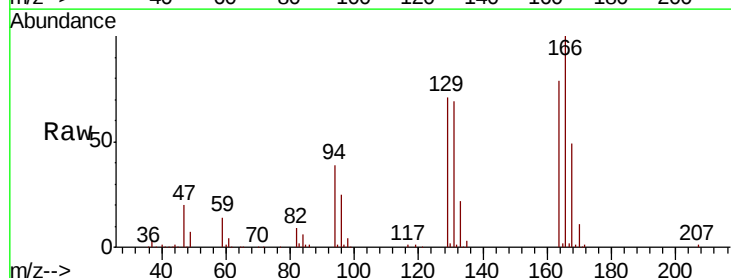
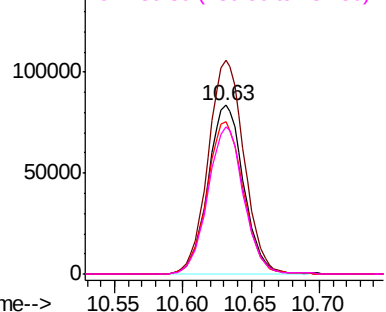
Abundance

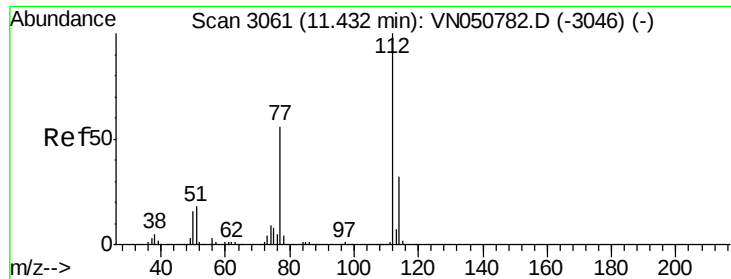
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





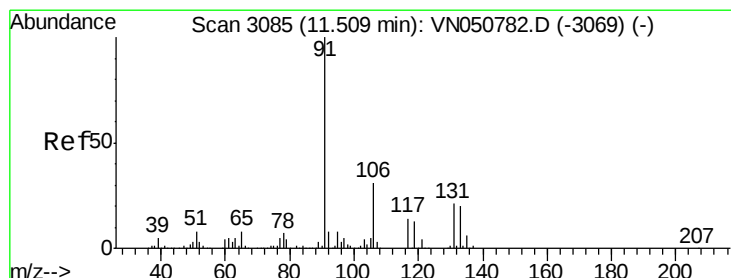
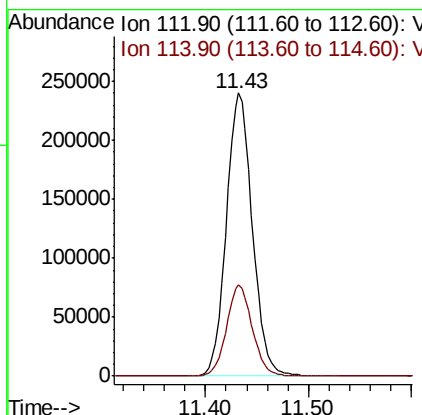
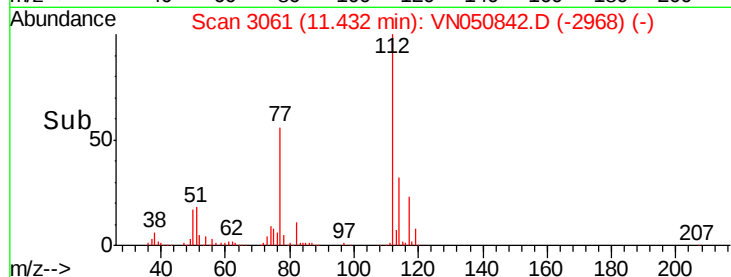
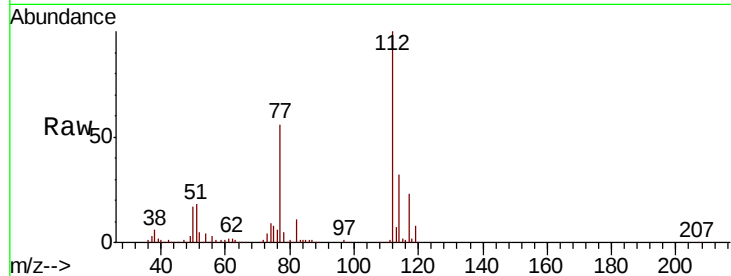
#65
Chlorobenzene
Concen: 19.55 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.6	38.4

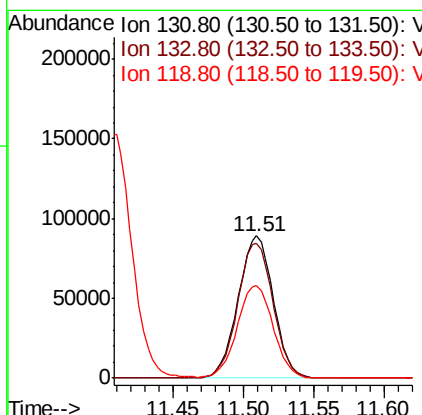
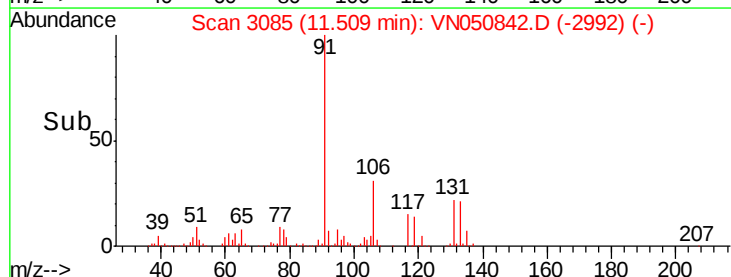
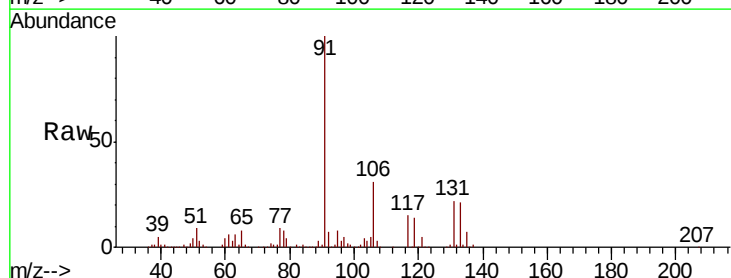
Manual Integrations
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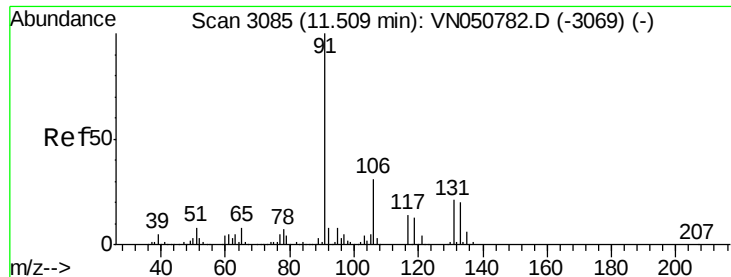
MMDadoda
8/24/2018 10:40:48 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.81 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.4	142.3
119	66.7	32.8	98.4





#67

Ethyl Benzene

Concen: 19.74 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampled :

VN0823WBSD01

Tot Ion: 91 Resp: 692014

Ion Ratio Lower Upper

91 100

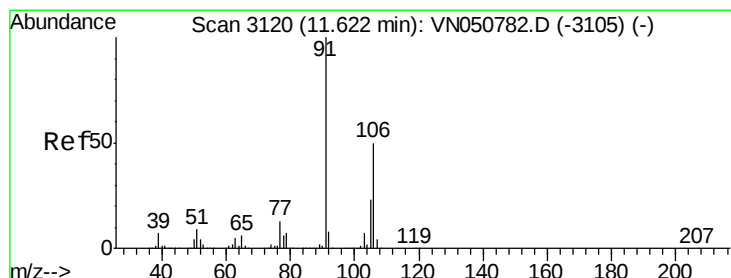
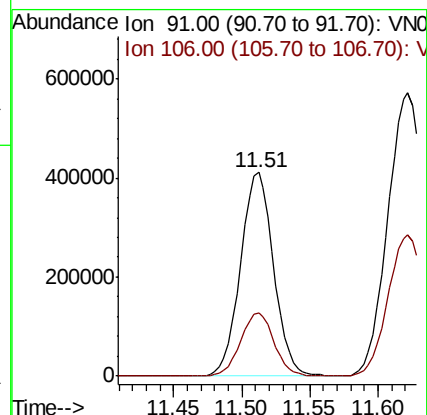
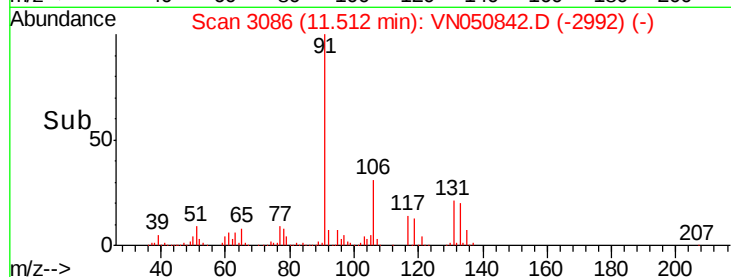
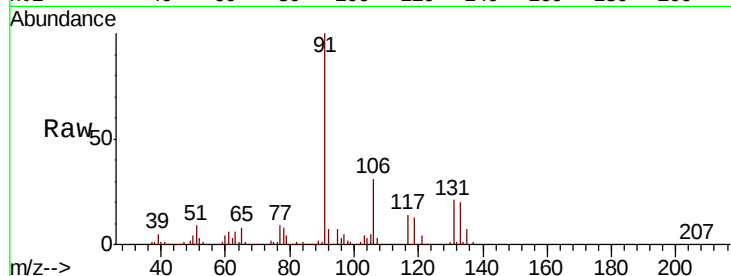
106 31.2 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

8/24/2018 10:40:48 AM



#68

m/p-Xylenes

Concen: 41.08 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050842.D

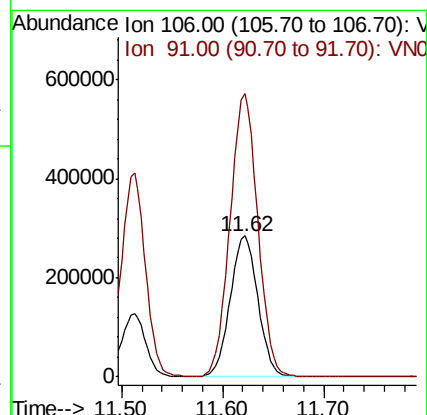
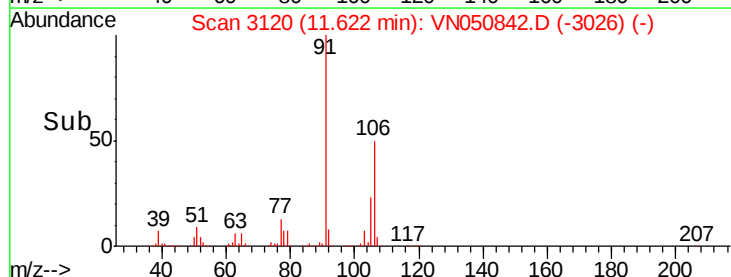
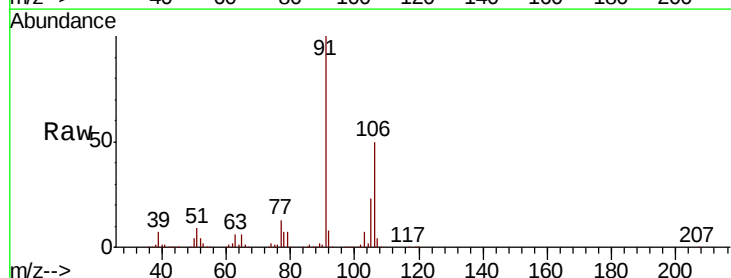
Acq: 23 Aug 2018 10:40

Tgt Ion: 106 Resp: 546545

Ion Ratio Lower Upper

106 100

91 200.9 161.0 241.6





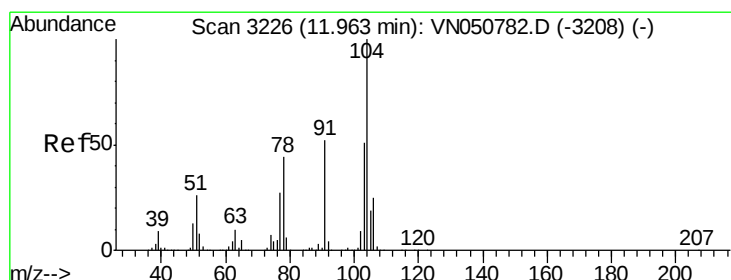
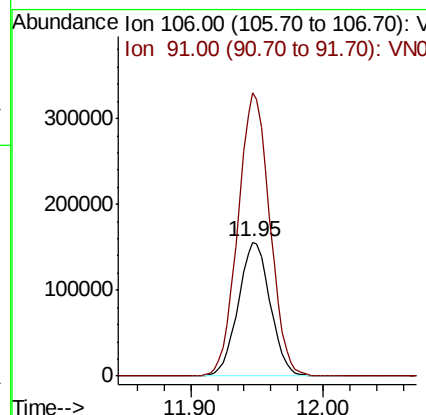
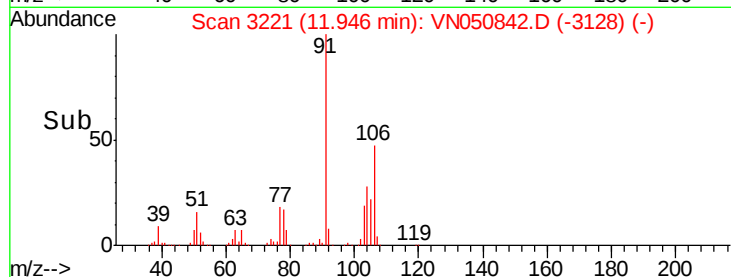
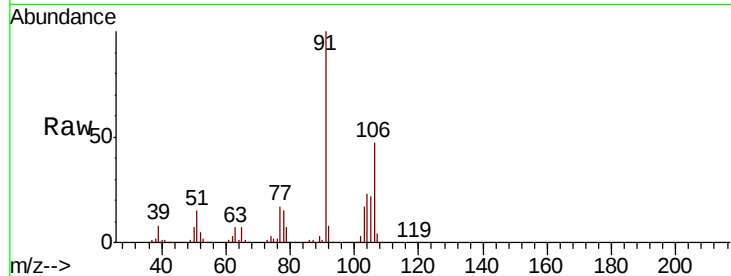
#69
o-Xylene
Concen: 20.34 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampled :
VN0823WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		260185		
91	211.6	106.5	319.5		

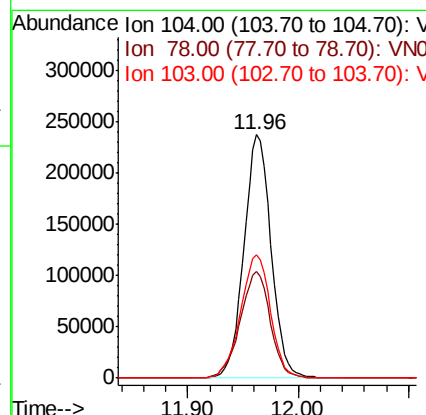
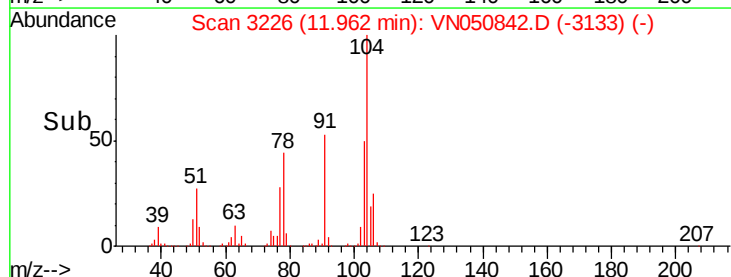
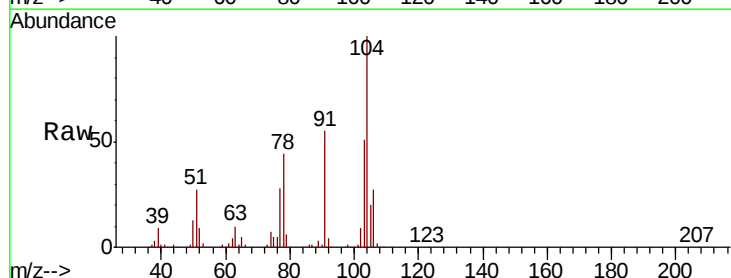
Manual Integrations
APPROVED

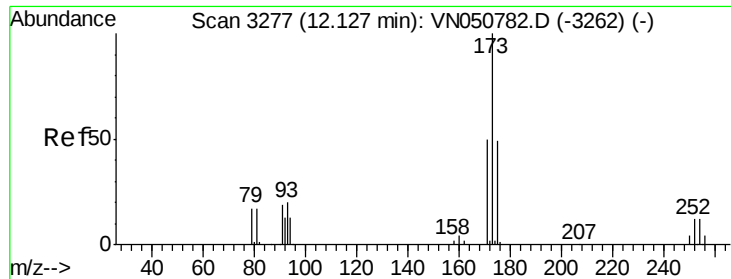
MMDadoda
8/24/2018 10:40:48 AM



#70
Styrene
Concen: 18.76 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		404431		
78	48.3	38.2	57.4		
103	55.7	44.4	66.6		





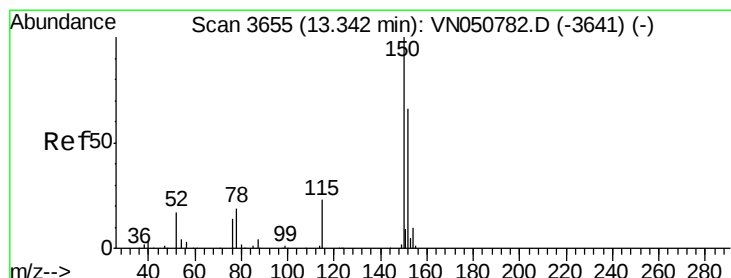
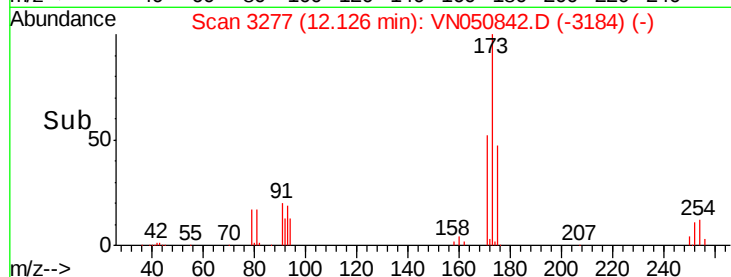
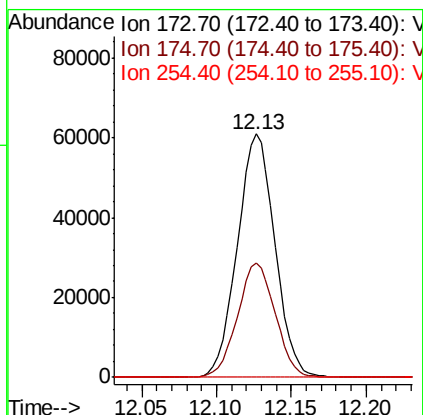
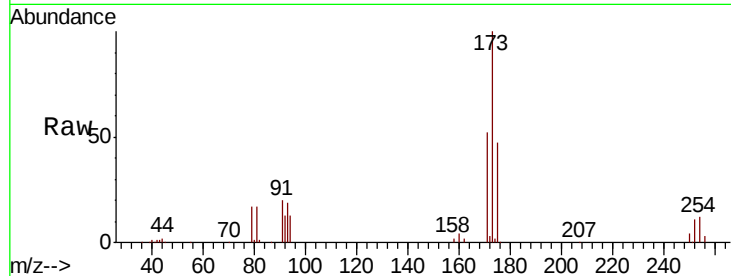
#71
Bromoform
Concen: 19.63 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.4	73.4
254	0.0	0.1	0.1#

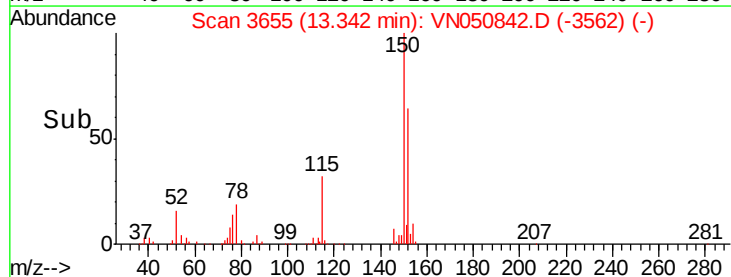
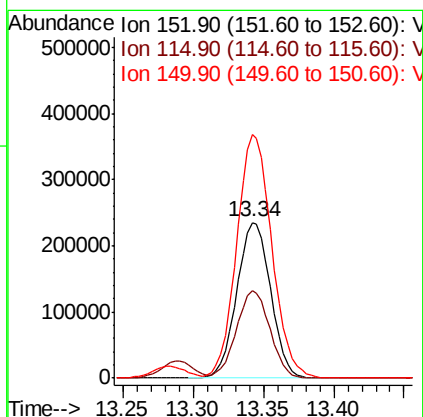
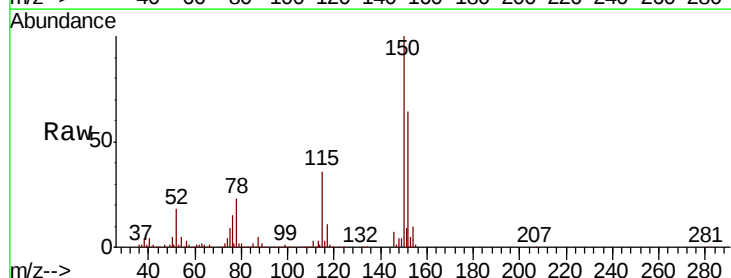
Manual Integrations
APPROVED

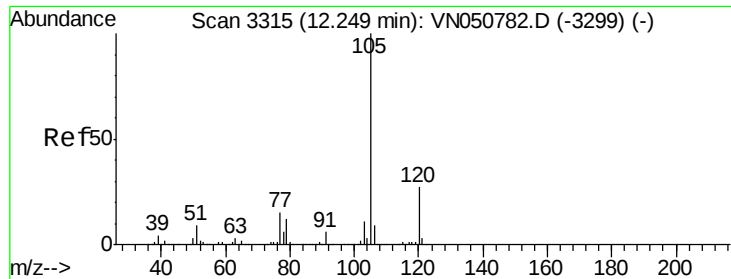
MMDadoda
8/24/2018 10:40:48 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3655
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.8	83.4
150	162.3	0.0	351.4





#73

Isopropylbenzene

Concen: 20.79 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion:105 Resp: 681467

Ion Ratio Lower Upper

105 100

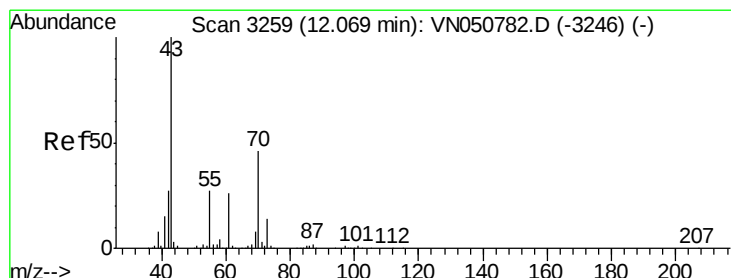
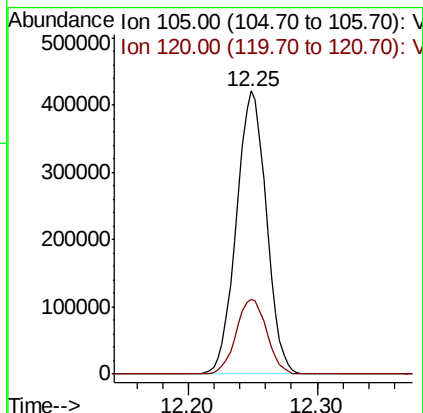
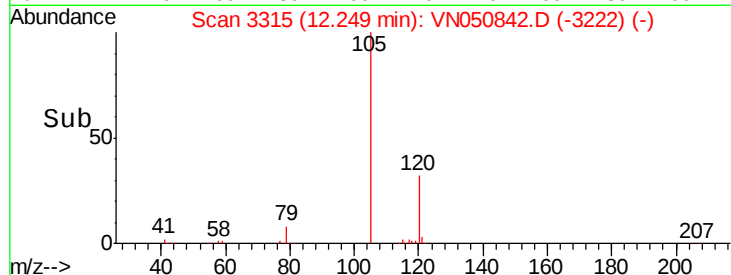
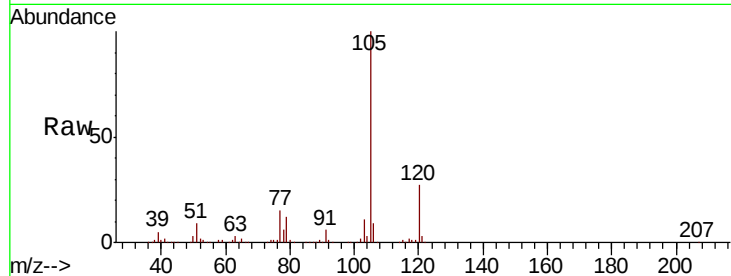
120 26.9 13.5 40.4

Manual Integrations

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MMDadoda

8/24/2018 10:40:48 AM



#74

N-ethyl acetate

Concen: 19.69 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Tgt Ion: 43 Resp: 162202

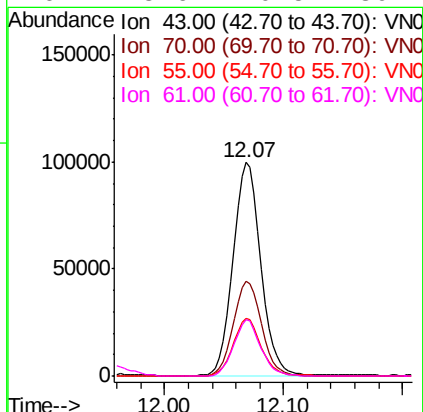
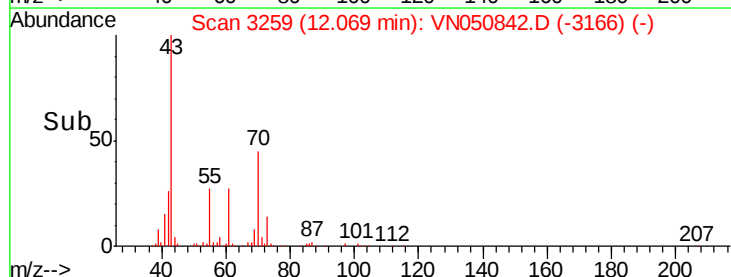
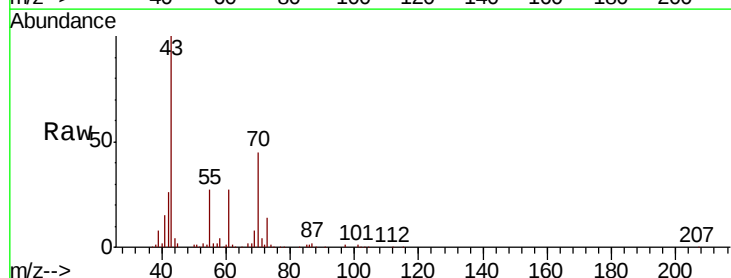
Ion Ratio Lower Upper

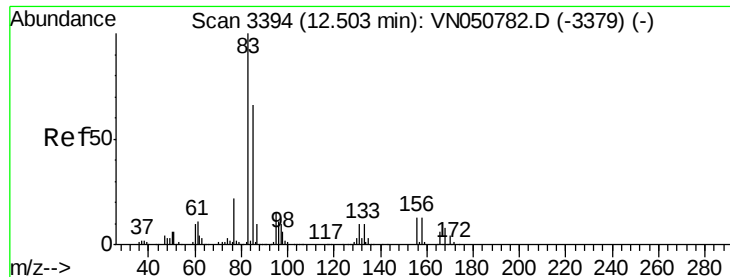
43 100

70 44.9 36.2 54.2

55 27.1 21.8 32.8

61 25.6 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.50 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

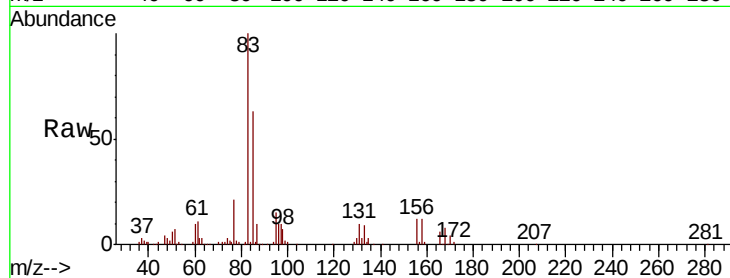
ClientSampled :

VN0823WBSD01

Tot Ion:	83	Resp:	175292
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.9
85	63.4	31.9	95.7

Manual Integrations
APPROVED

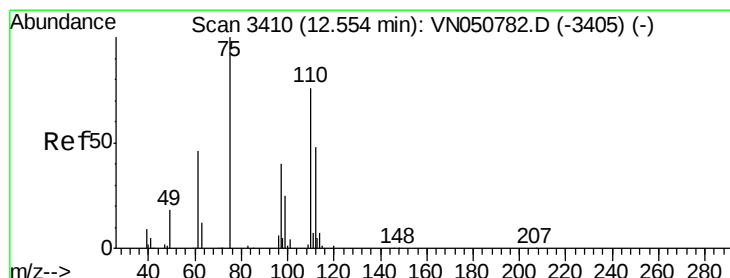
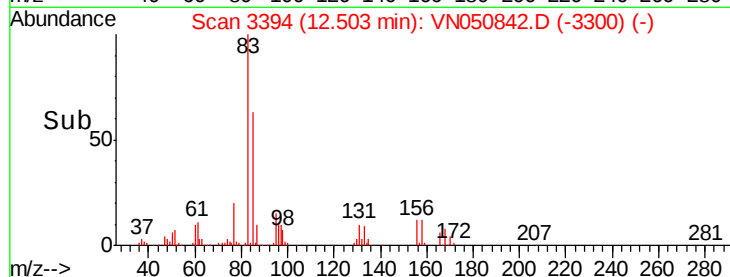
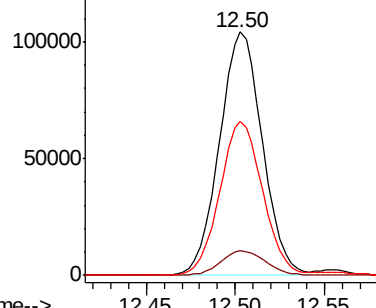
MMDadoda
8/24/2018 10:40:48 AM



Abundance Ion 82.90 (82.60 to 83.60): VN050842.D (-3300) (-)

Ion 130.80 (130.50 to 131.50): VN050842.D (-3300) (-)

Ion 84.90 (84.60 to 85.60): VN050842.D (-3300) (-)



#76

1,2,3-Trichloropropane

Concen: 21.04 ug/l m

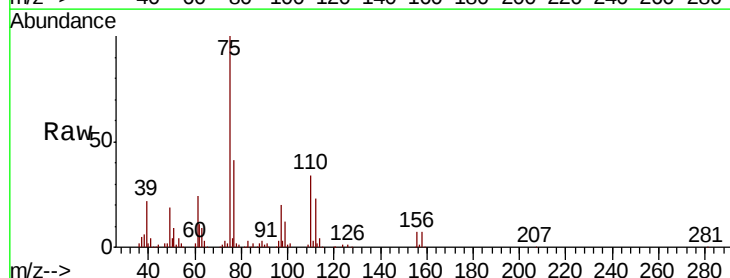
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN050842.D

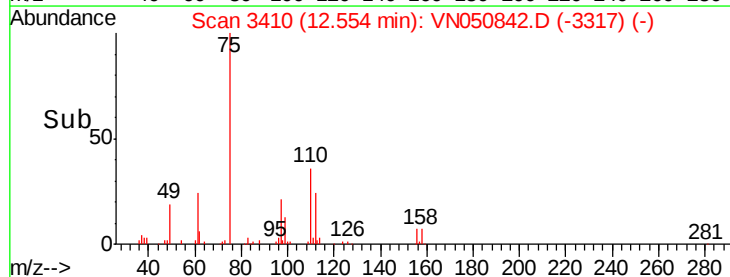
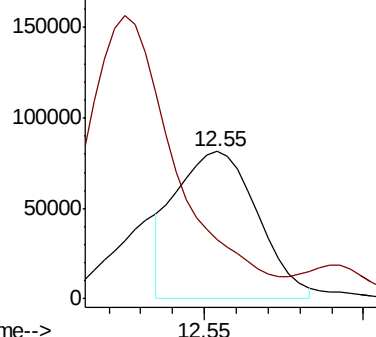
Acq: 23 Aug 2018 10:40

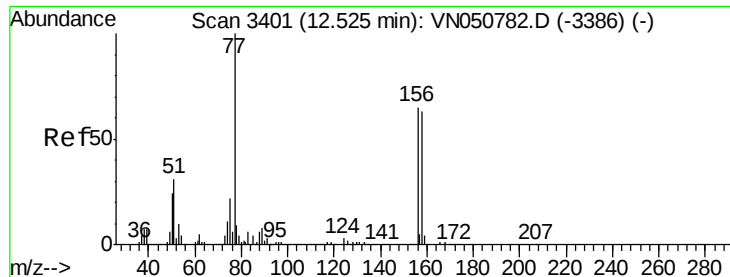
Tgt Ion:	75	Resp:	145876
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050842.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN050842.D (-3317) (-)





#77

Bromobenzene

Concen: 19.63 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion:156 Resp: 174881

Ion Ratio Lower Upper

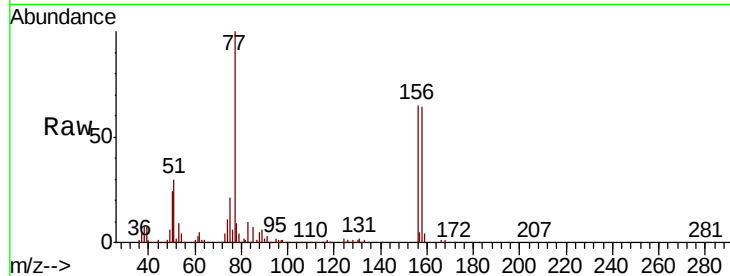
156 100

77 180.3 89.9 269.7

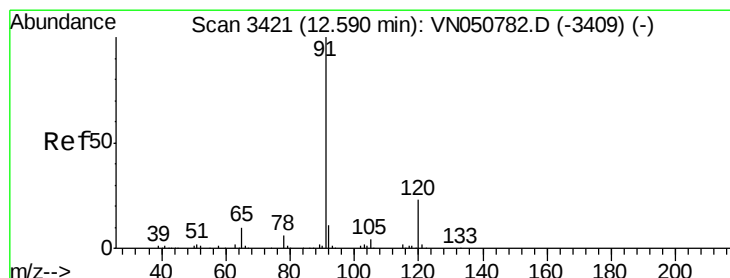
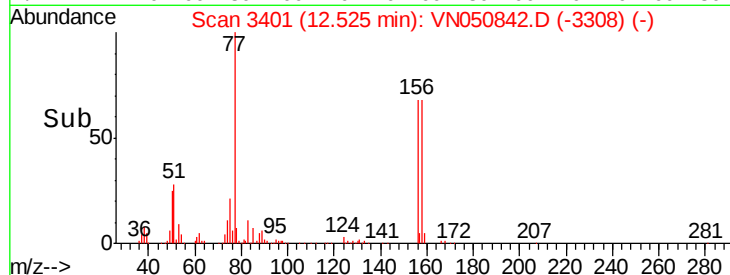
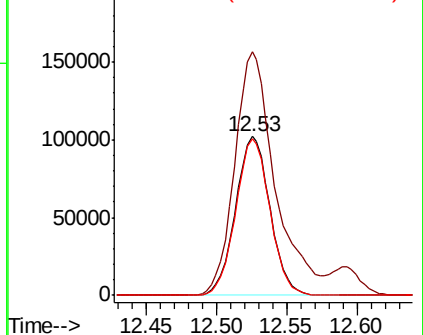
158 97.7 49.3 147.9

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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: 20.91 ug/l

RT: 12.59 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN050842.D

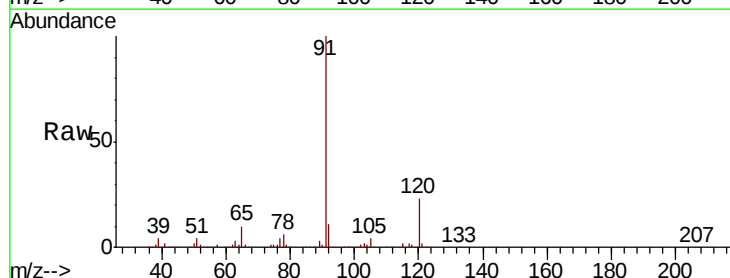
Acq: 23 Aug 2018 10:40

Tgt Ion: 91 Resp: 765645

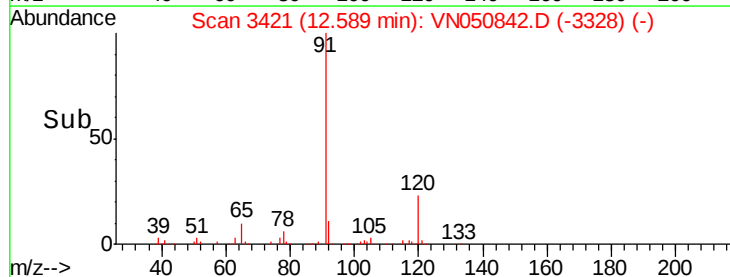
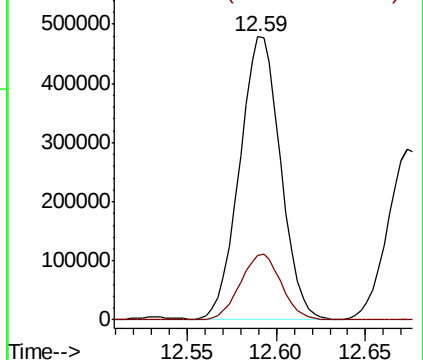
Ion Ratio Lower Upper

91 100

120 23.3 11.7 35.0



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





#79

2-Chlorotoluene

Concen: 20.77 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion: 91 Resp: 473673

Ion Ratio Lower Upper

91 100

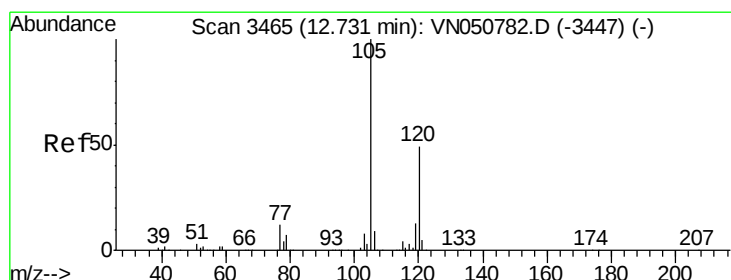
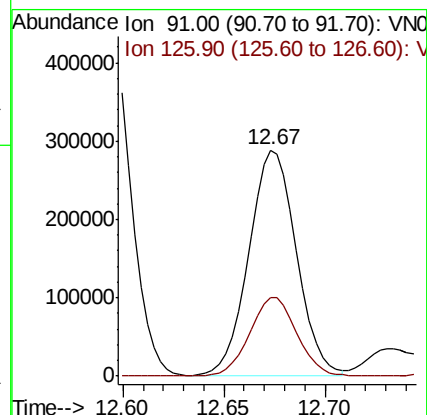
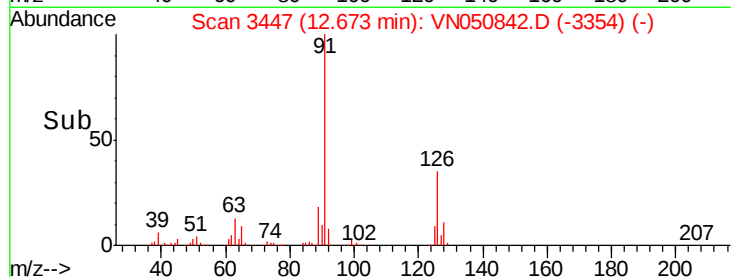
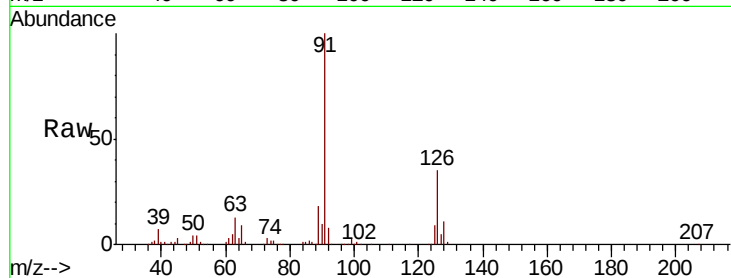
126 34.8 17.8 53.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.23 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050842.D

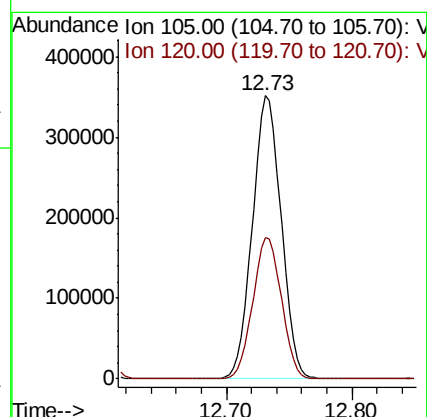
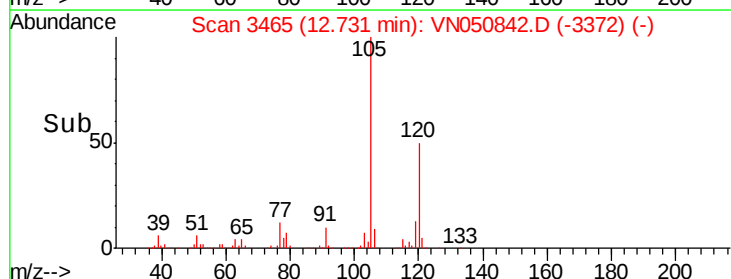
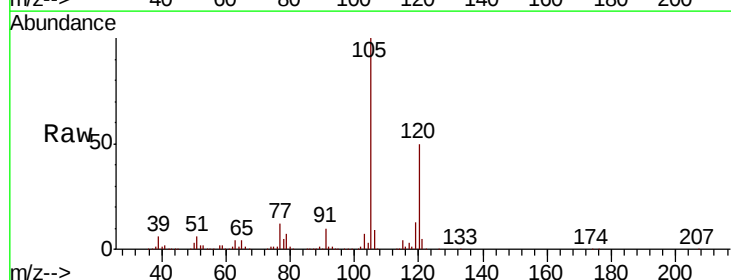
Acq: 23 Aug 2018 10:40

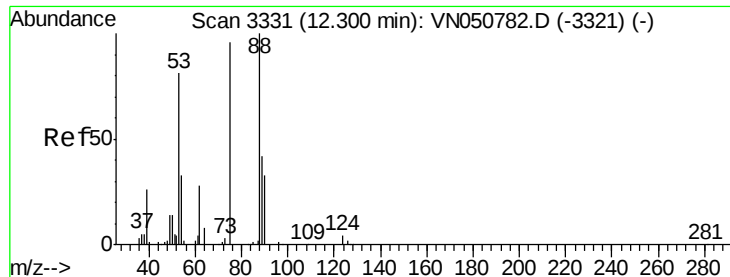
Tgt Ion: 105 Resp: 561536

Ion Ratio Lower Upper

105 100

120 49.6 24.6 74.0





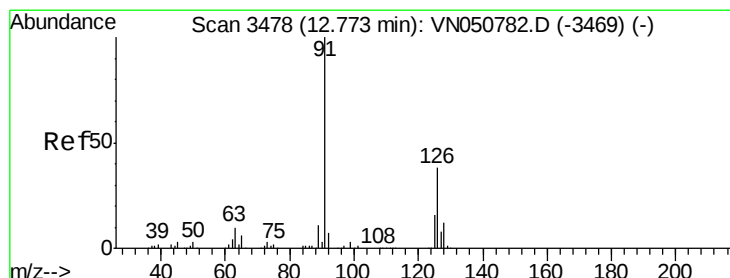
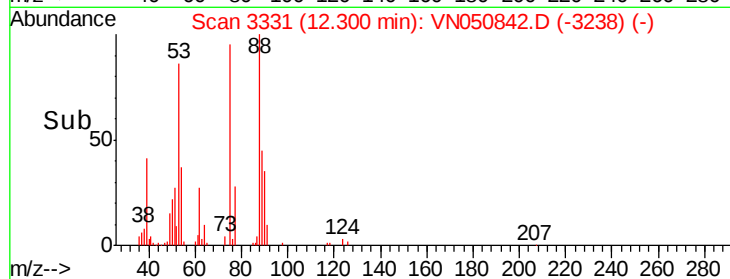
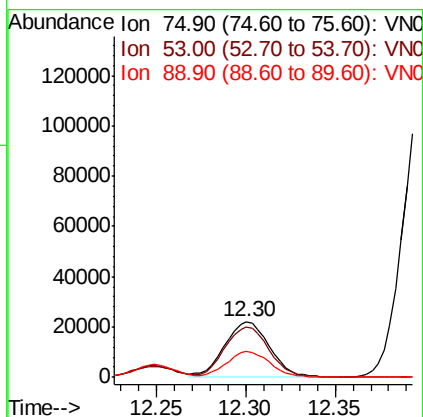
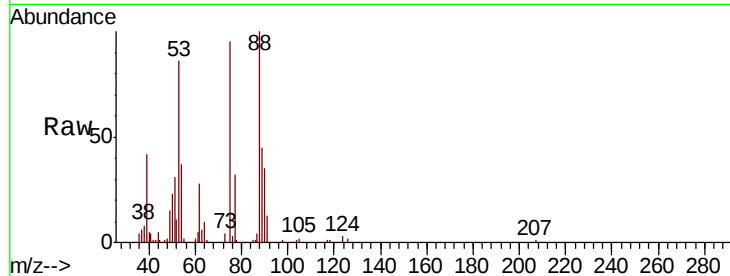
#81
trans-1,4-Dichloro-2-butene
Concen: 19.10 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.3	68.9	103.3
89	45.6	36.1	54.1

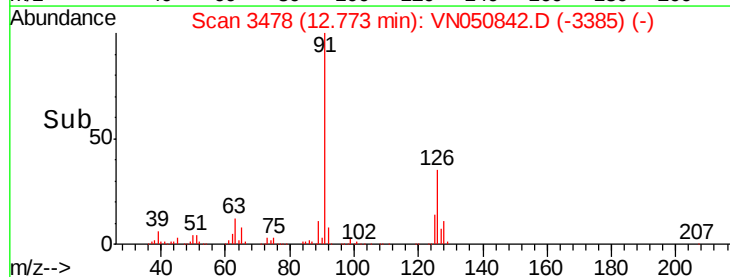
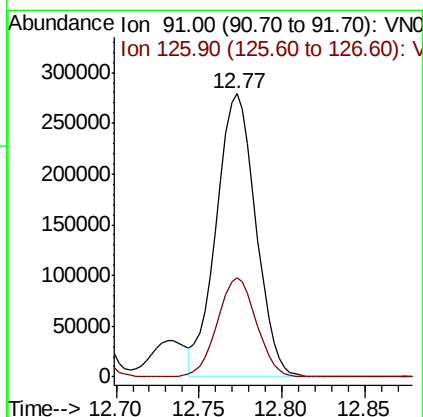
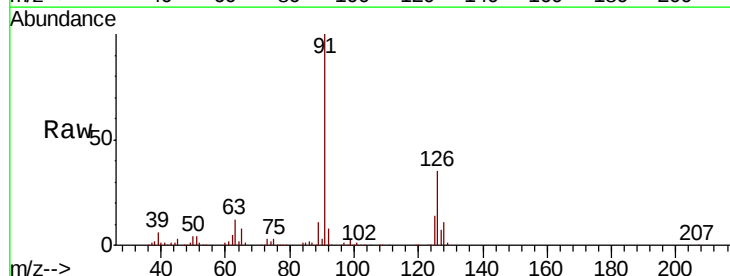
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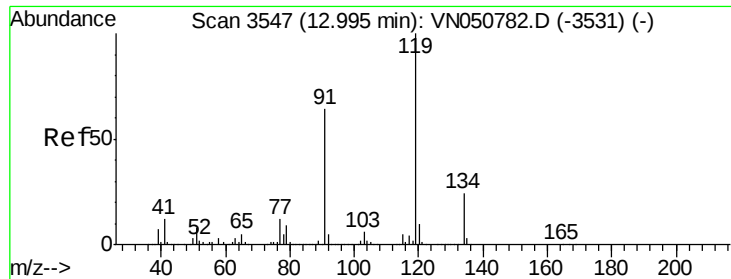
MMDadoda
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#82
4-Chlorotoluene
Concen: 20.48 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.5	52.5





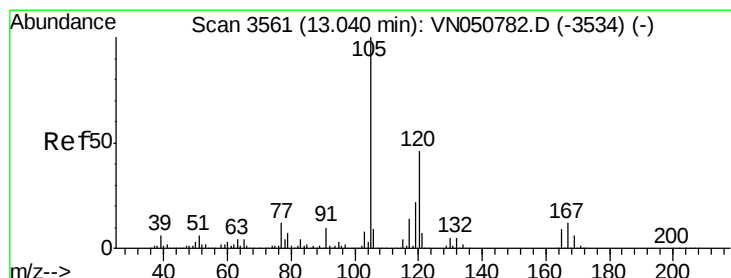
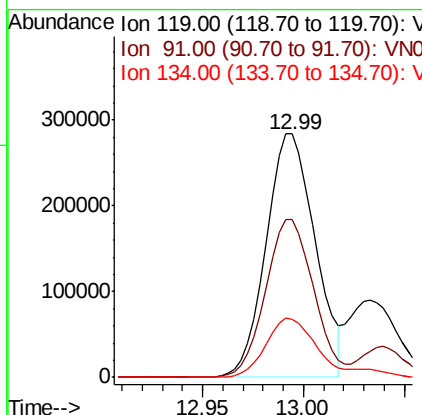
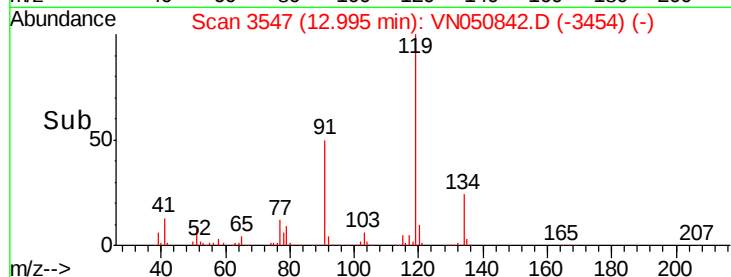
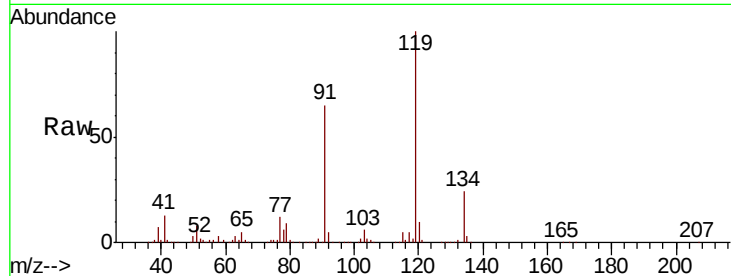
#83
 tert-Butylbenzene
 Concen: 20.91 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	478915		
91	63.6		31.6	94.7
134	27.1		13.4	40.1

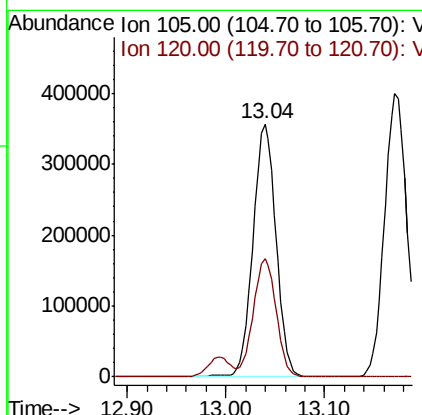
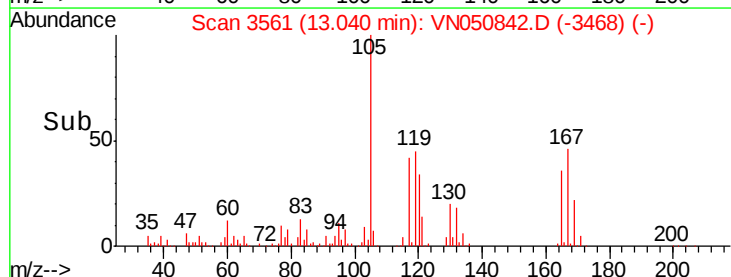
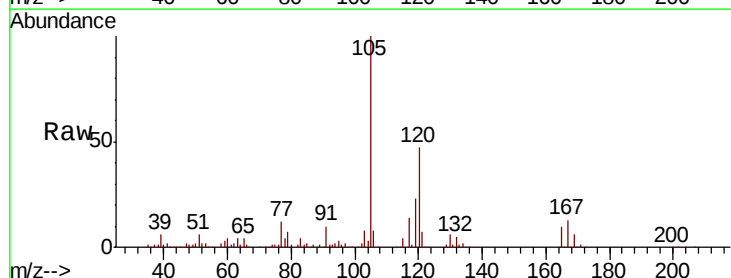
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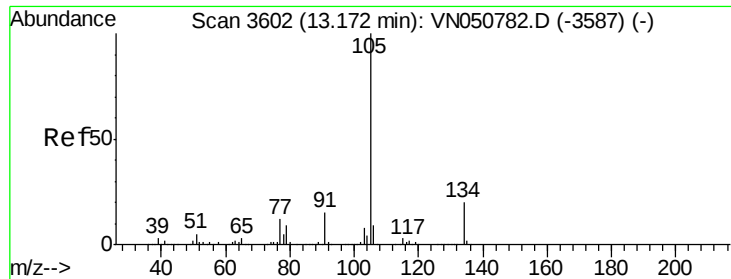
MMDadoda
 8/24/2018 10:40:48 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.49 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	571648		
120	46.5		22.9	68.8





#85

sec-Butylbenzene

Concen: 20.90 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

ClientSampleId :

VN0823WBSD01

Tot Ion:105 Resp: 627207

Ion Ratio Lower Upper

105 100

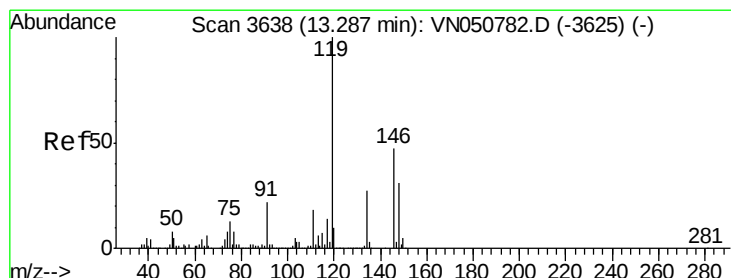
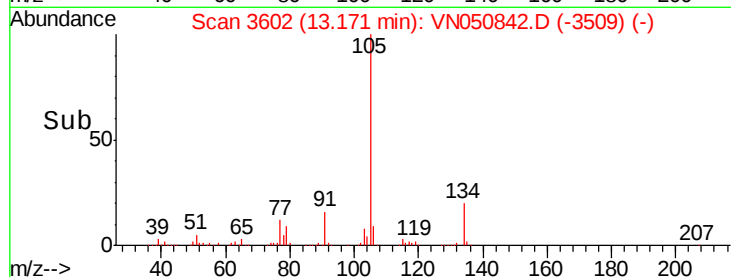
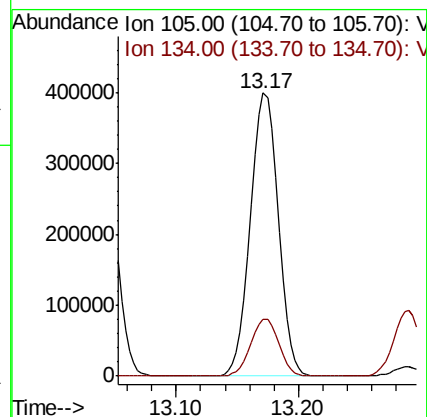
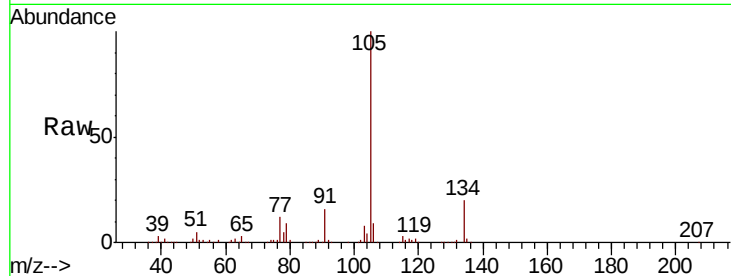
134 20.4 10.3 30.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.05 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

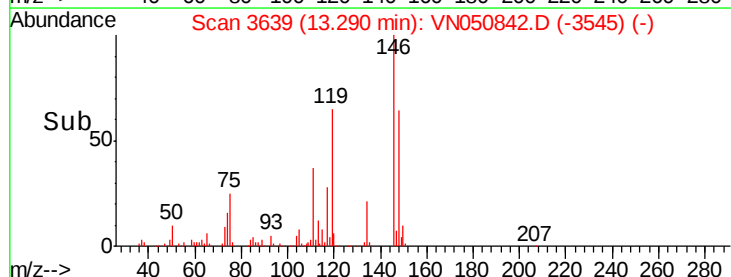
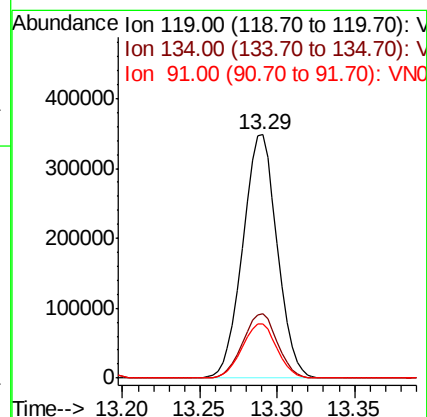
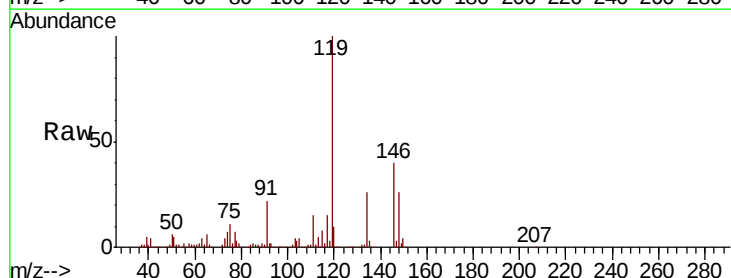
Tgt Ion:119 Resp: 538302

Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.0

91 22.3 11.2 33.5





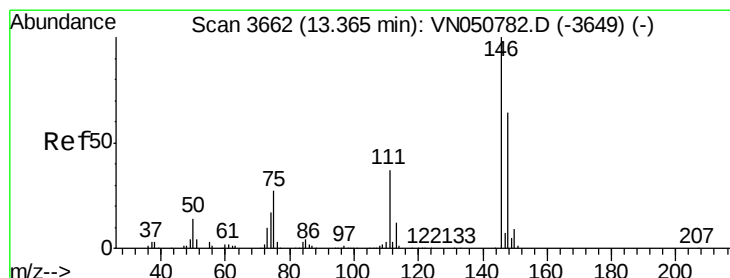
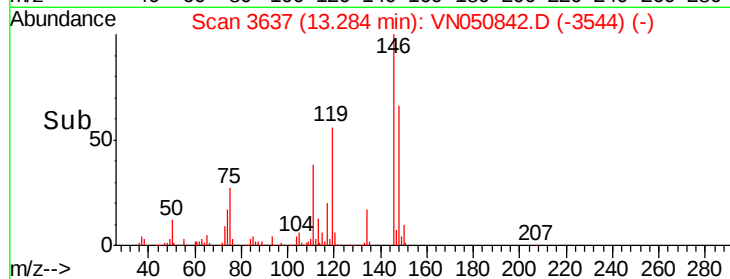
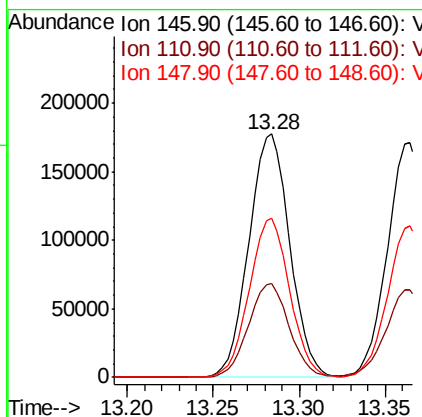
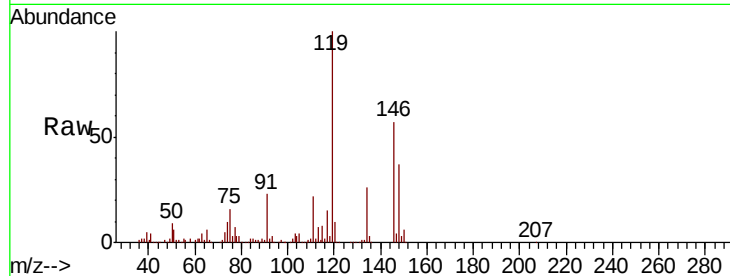
#87
 1,3-Dichlorobenzene
 Concen: 19.41 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.3
148	64.5	32.2	96.6

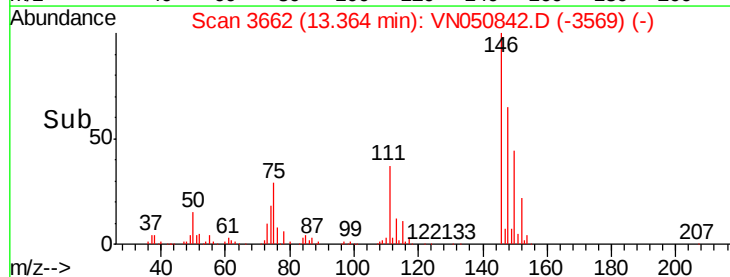
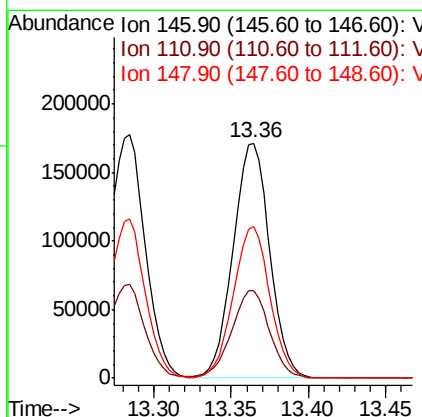
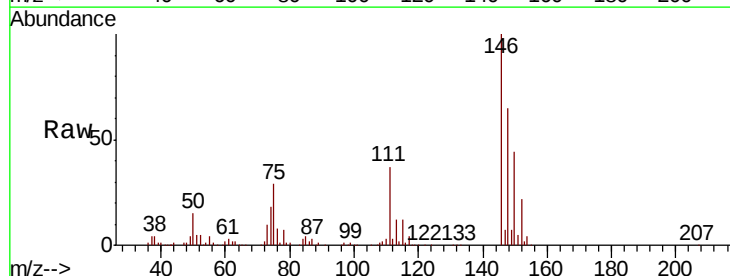
Manual Integrations
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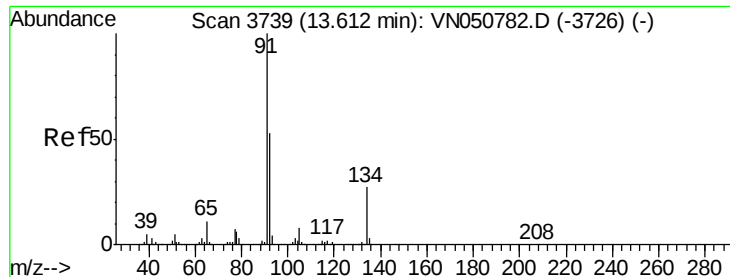
MMDadoda
 8/24/2018 10:40:48 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.88 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.8	56.3
148	64.8	32.2	96.6





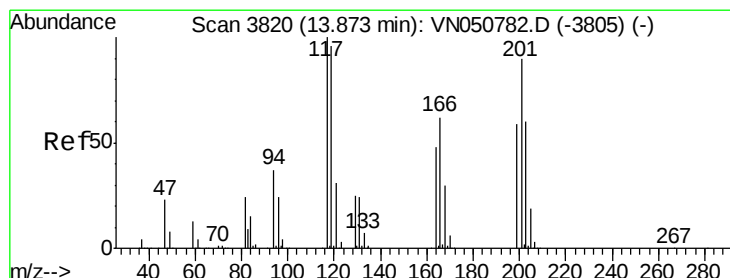
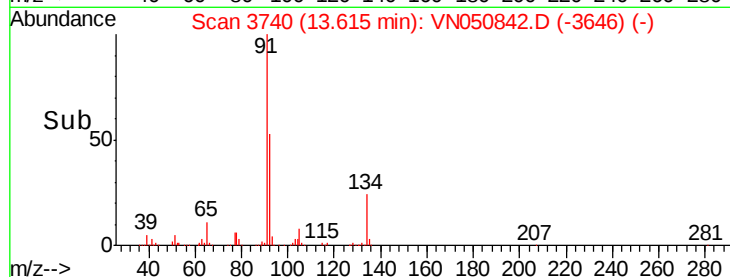
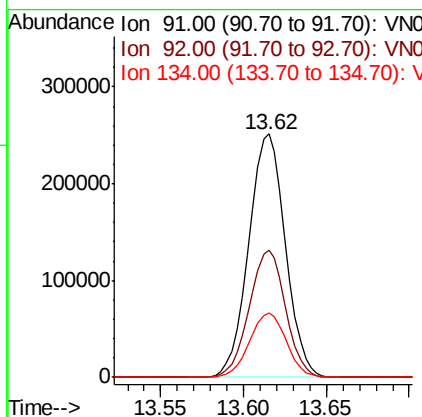
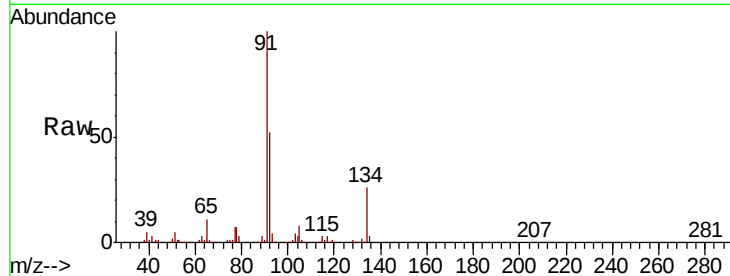
#89
n-Butylbenzene
Concen: 18.92 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.1	78.2
134	26.5	13.2	39.6

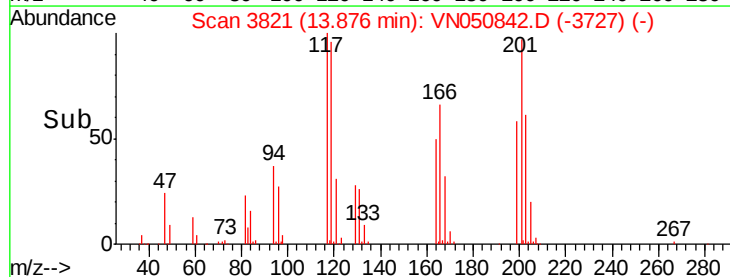
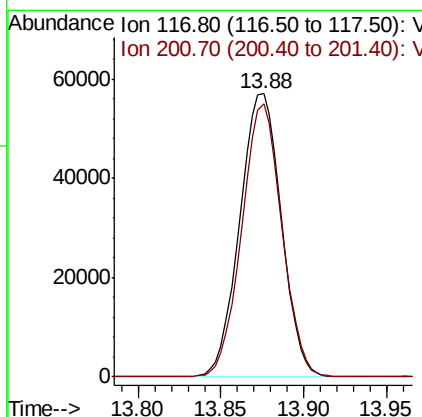
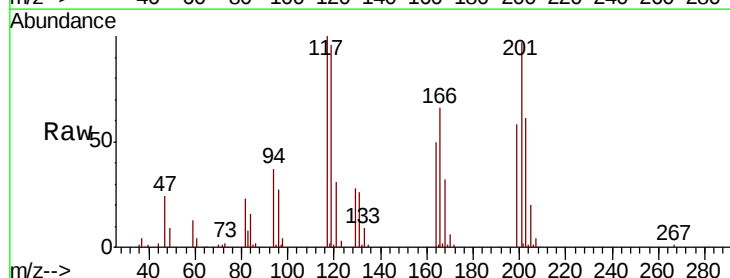
Manual Integrations
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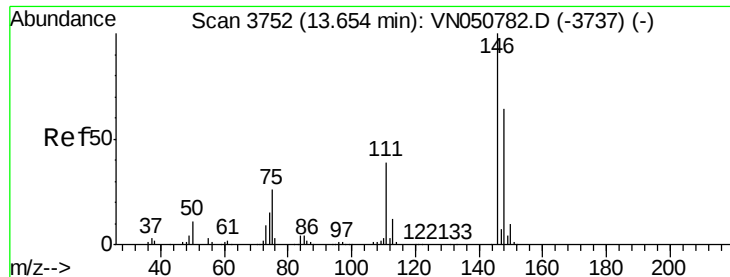
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#90
Hexachloroethane
Concen: 20.52 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.7	46.0	137.8





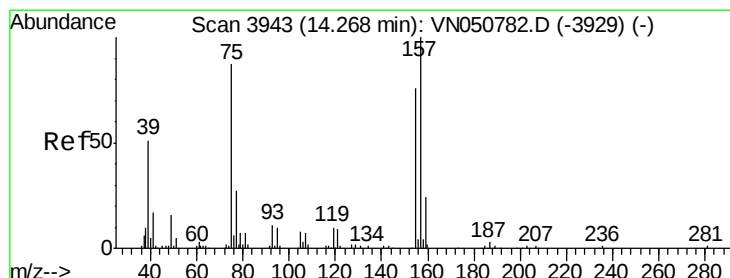
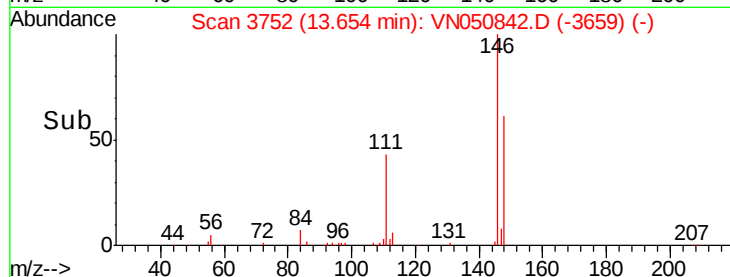
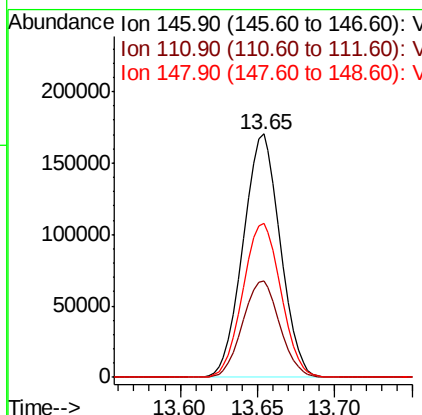
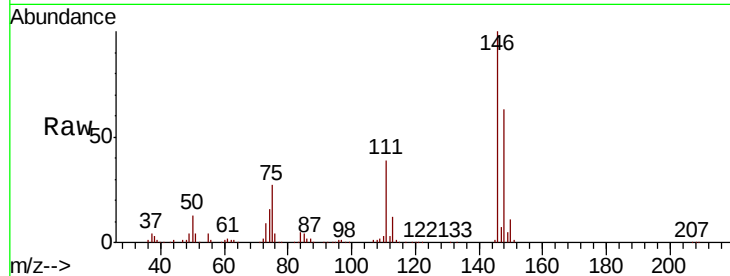
#91
 1,2-Dichlorobenzene
 Concen: 19.56 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0823WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	64.7	32.3	96.8

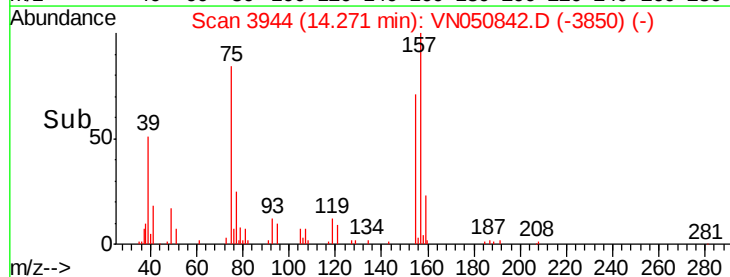
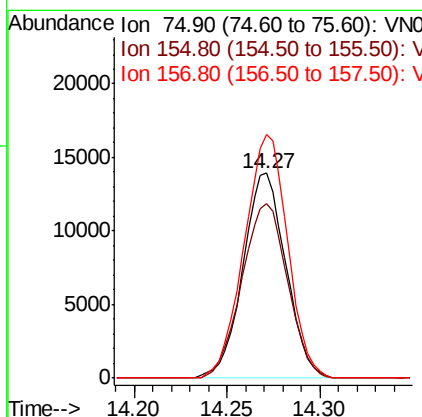
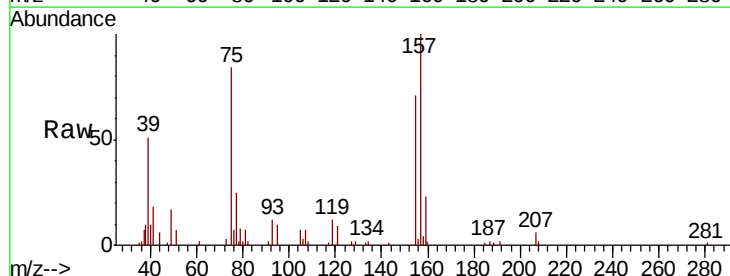
Manual Integrations
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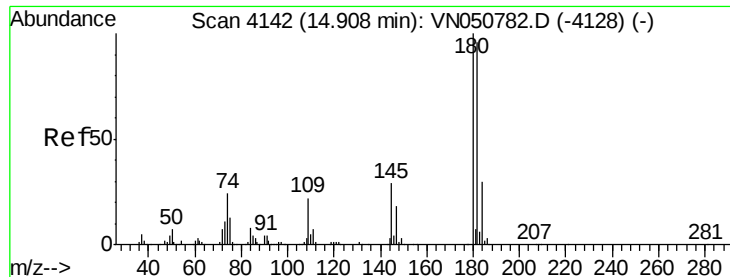
MMDadoda
 8/24/2018 10:40:48 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.98 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050842.D
 Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.7	46.4	139.1
157	120.4	60.7	182.0





#93

1,2,4-Trichlorobenzene

Concen: 17.26 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Instrument :

MSVOA_N

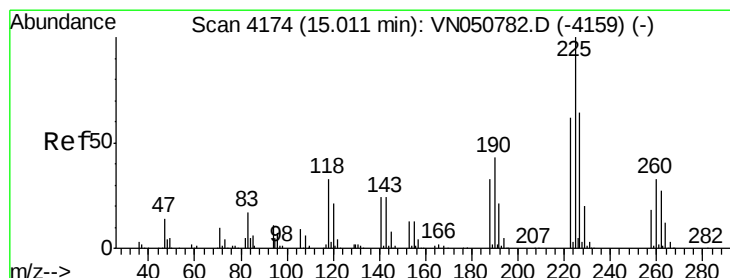
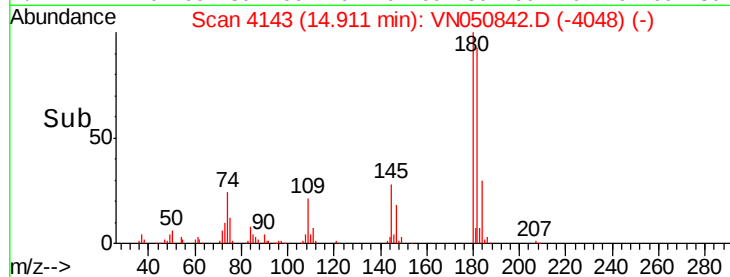
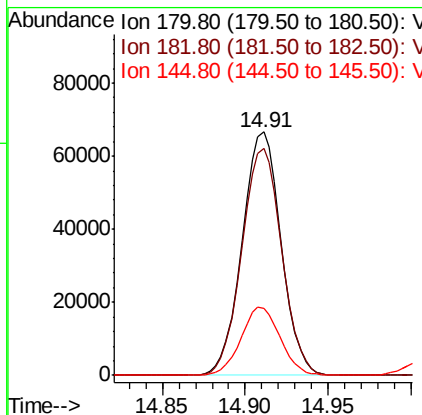
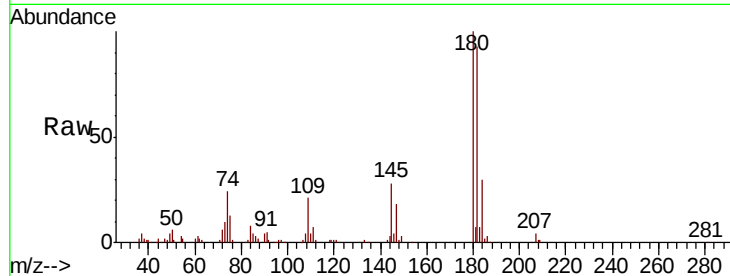
ClientSampled :

VN0823WBSD01

Tot Ion:	180	Resp:	108895
Ion Ratio	Lower	Upper	
180	100		
182	95.5	48.2	144.6
145	28.2	14.1	42.2

Manual Integrations
APPROVED

MMDadoda
8/24/2018 10:40:48 AM



#94

Hexachlorobutadiene

Concen: 19.94 ug/l

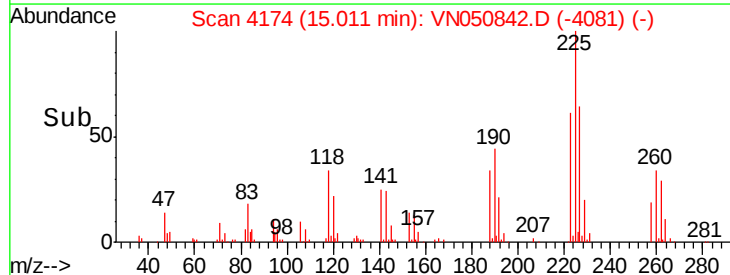
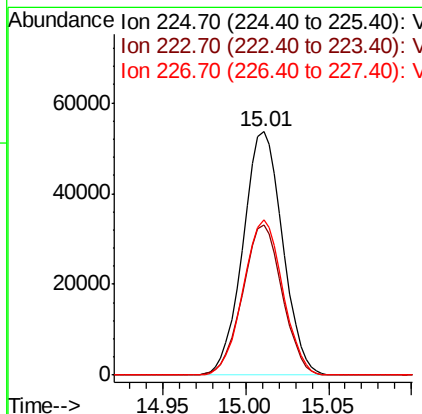
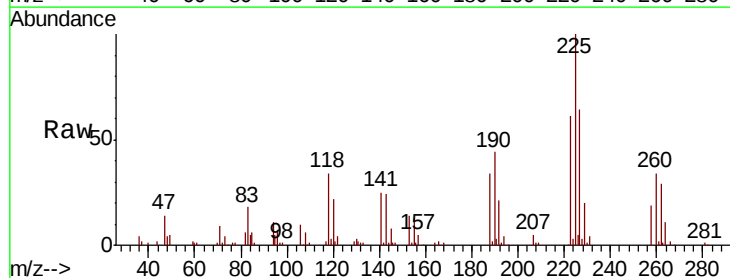
RT: 15.01 min Scan# 4174

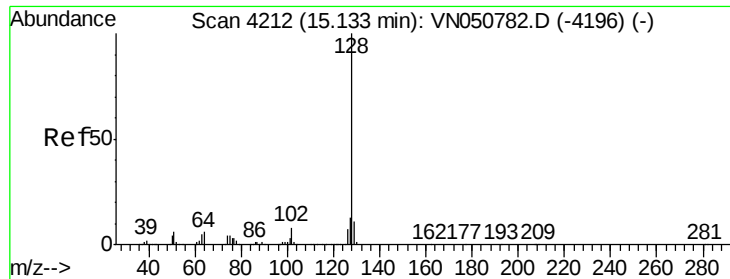
Delta R.T. 0.00 min

Lab File: VN050842.D

Acq: 23 Aug 2018 10:40

Tgt Ion:	225	Resp:	89105
Ion Ratio	Lower	Upper	
225	100		
223	61.6	31.3	93.8
227	63.8	32.0	96.2





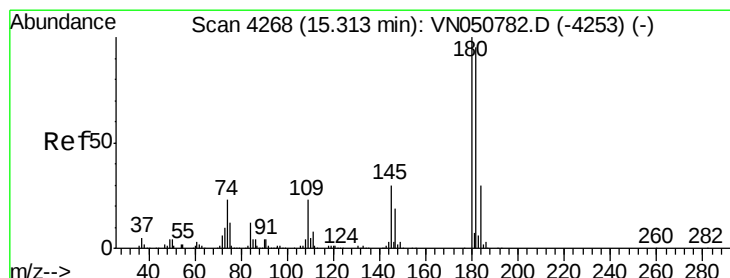
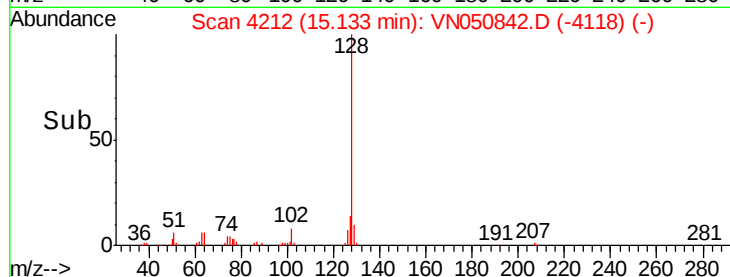
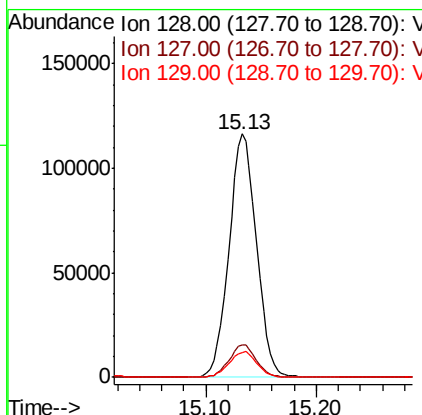
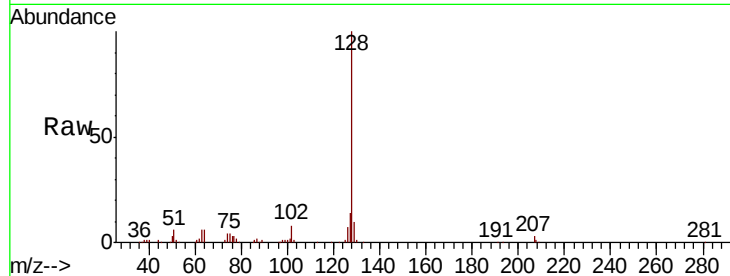
#95
Naphthalene
Concen: 16.71 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Instrument :
MSVOA_N
ClientSampleId :
VN0823WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	200563		
127	13.3		10.5	15.7
129	10.7		8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/24/2018 10:40:48 AM



#96
1,2,3-Trichlorobenzene
Concen: 17.82 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050842.D
Acq: 23 Aug 2018 10:40

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	110590		
182	96.3		48.0	144.2
145	30.2		15.2	45.6

