

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103018\
 Data File : VN052059.D
 Acq On : 30 Oct 2018 11:12
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:48:01 AM

Quant Time: Oct 31 02:41:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:21:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	277483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	535293	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	498088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	222063	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	422927	96.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	193.66%	
35) Dibromofluoromethane	7.59	113	328019	102.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	204.48%	
50) Toluene-d8	10.09	98	1327134	101.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	203.40%	
62) 4-Bromofluorobenzene	12.40	95	498536	102.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	205.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	361983	113.087	ug/l	98
3) Chloromethane	2.06	50	428905	106.772	ug/l	99
4) Vinyl Chloride	2.19	62	436954	98.345	ug/l	97
5) Bromomethane	2.56	94	304815	85.041	ug/l	94
6) Chloroethane	2.71	64	275714	95.711	ug/l	94
7) Trichlorofluoromethane	3.02	101	516100	102.991	ug/l	98
8) Diethyl Ether	3.41	74	191411	102.646	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	302036	105.741	ug/l	99
10) Methyl Iodide	3.96	142	419644	102.417	ug/l	99
11) Tert butyl alcohol	4.78	59	104978	529.814	ug/l #	93
12) 1,1-Dichloroethene	3.74	96	290535	106.952	ug/l	96
13) Acrolein	3.61	56	119767	563.534	ug/l	94
14) Allyl chloride	4.33	41	594440	107.289	ug/l	99
15) Acrylonitrile	4.99	53	634780	537.220	ug/l	99
16) Acetone	3.82	43	446540	458.576	ug/l	99
17) Carbon Disulfide	4.06	76	944160	106.779	ug/l	100
18) Methyl Acetate	4.32	43	275062	90.919	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	969173	106.694	ug/l	97
20) Methylene Chloride	4.55	84	361830	108.031	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	335435	108.818	ug/l	94
22) Diisopropyl ether	5.95	45	1235342	99.894	ug/l	96
23) Vinyl Acetate	5.90	43	4488709	548.752	ug/l	99
24) 1,1-Dichloroethane	5.85	63	699550	102.737	ug/l	99
25) 2-Butanone	6.83	43	739332	537.652	ug/l	96
26) 2,2-Dichloropropane	6.83	77	564230	101.511	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	400270	104.766	ug/l	99
28) Bromochloromethane	7.20	49	319482	85.688	ug/l	94
29) Tetrahydrofuran	7.21	42	494713	504.247	ug/l	97
30) Chloroform	7.37	83	702592	101.100	ug/l	97
31) Cyclohexane	7.66	56	649097	60.074	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	597692	113.163	ug/l	99
36) 1,1-Dichloropropene	7.80	75	540125	101.614	ug/l	98
37) Ethyl Acetate	6.93	43	340865	107.566	ug/l	98
38) Carbon Tetrachloride	7.77	117	504786	114.368	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	650471	102.527	ug/l	99
40) Benzene	8.04	78	1568325	104.320	ug/l	98
41) Methacrylonitrile	7.18	41	193825m	159.366	ug/l	
42) 1,2-Dichloroethane	8.13	62	544681	91.272	ug/l	100
43) Isopropyl Acetate	8.16	43	640102	104.343	ug/l	98
44) Trichloroethene	8.83	130	364340	110.079	ug/l	96
45) 1,2-Dichloropropane	9.12	63	425928	93.620	ug/l	98
46) Dibromomethane	9.21	93	258022	111.143	ug/l	97
47) Bromodichloromethane	9.40	83	546318	112.723	ug/l	98
48) Methyl methacrylate	9.20	41	325918	105.112	ug/l	99
49) 1,4-Dioxane	9.20	88	52208	3391.873	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1748396	525.740	ug/l	100
52) Toluene	10.16	92	987850	109.434	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	591036	113.896	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	658426	117.025	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	339719	105.198	ug/l	98
56) Ethyl methacrylate	10.43	69	503622	106.588	ug/l	97
57) 1,3-Dichloropropane	10.71	76	617568	103.948	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1308021	540.363	ug/l	99
59) 2-Hexanone	10.75	43	1215323	508.845	ug/l	98
60) Dibromochloromethane	10.90	129	370363	120.627	ug/l	98
61) 1,2-Dibromoethane	11.00	107	352559	109.996	ug/l	100
64) Tetrachloroethene	10.63	164	296412	103.535	ug/l	98
65) Chlorobenzene	11.43	112	1063878	104.166	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	353990	113.623	ug/l	99
67) Ethyl Benzene	11.51	91	1914733	107.025	ug/l	99
68) m/p-Xylenes	11.62	106	1421131	228.866	ug/l	99
69) o-Xylene	11.95	106	692179	114.277	ug/l	99
70) Styrene	11.96	104	1142312	114.382	ug/l	99
71) Bromoform	12.13	173	216711	130.696	ug/l #	99
73) Isopropylbenzene	12.25	105	1875789	107.204	ug/l	100
74) N-amyl acetate	12.07	43	626592	94.232	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	433005	98.178	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	369592m	98.297	ug/l	
77) Bromobenzene	12.53	156	389816	102.760	ug/l	96
78) n-propylbenzene	12.59	91	2263999	102.943	ug/l	100
79) 2-Chlorotoluene	12.67	91	1307296	105.849	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1531247	105.313	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	140400	121.849	ug/l	92
82) 4-Chlorotoluene	12.77	91	1364669	109.194	ug/l	100
83) tert-Butylbenzene	12.99	119	1269250	102.581	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1516389	106.680	ug/l	99
85) sec-Butylbenzene	13.17	105	1833901	104.783	ug/l	100
86) p-Isopropyltoluene	13.29	119	1505098	106.026	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	706676	101.909	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	707507	100.243	ug/l	99
89) n-Butylbenzene	13.61	91	1433300	104.506	ug/l	98
90) Hexachloroethane	13.87	117	267140	107.954	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	664934	104.609	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	64883	160.909	ug/l	98

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	267615	116.614	ug/l	99
94) Hexachlorobutadiene	15.01	225	134908	100.375	ug/l	96
95) Naphthalene	15.13	128	678011	111.453	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	224613	107.785	ug/l	96

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

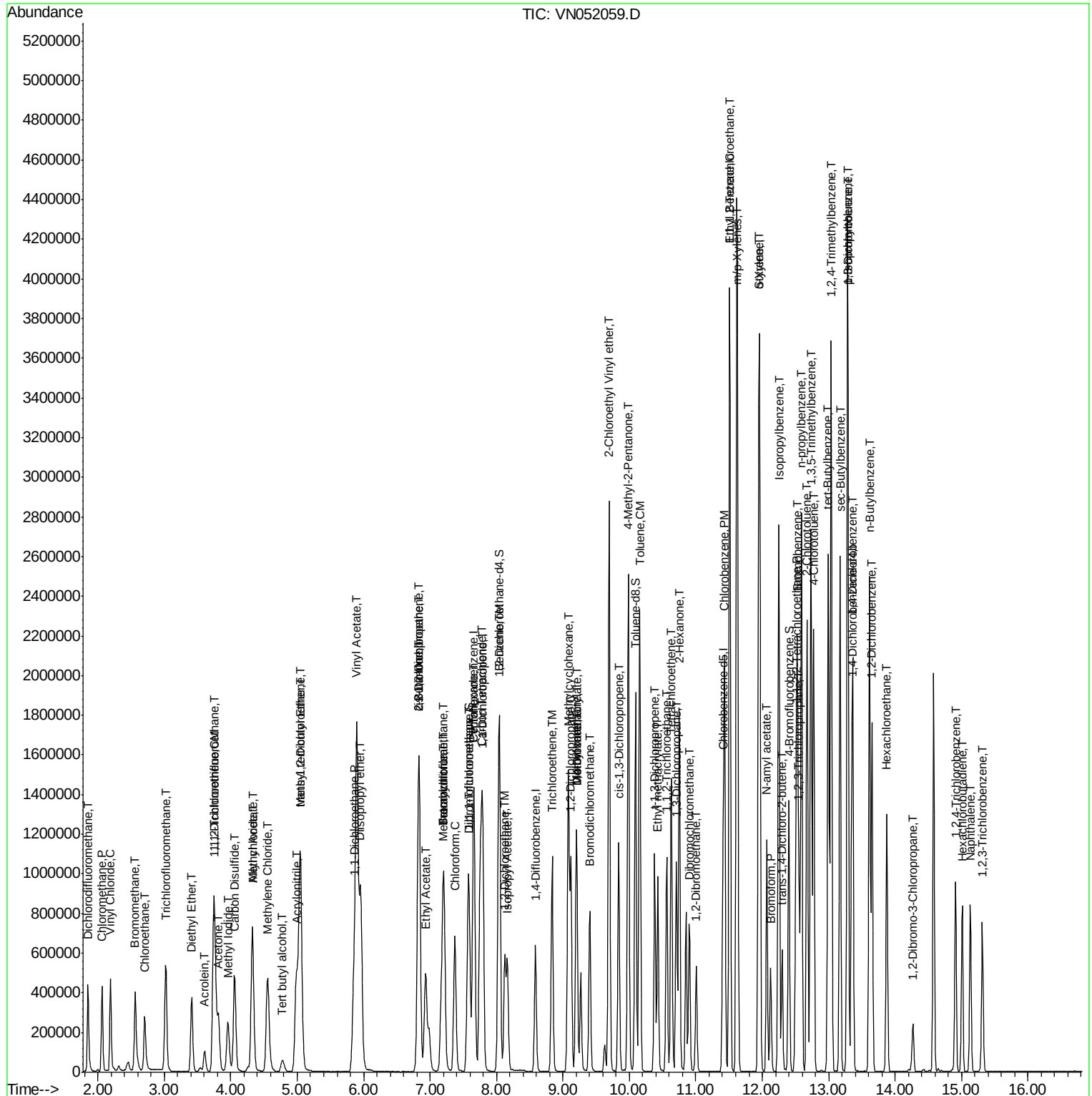
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Data File : VN052059.D
Acq On : 30 Oct 2018 11:12
Operator : MD\SY
Sample : VSTDIC100
Misc : 5.00mL/MSVOA N/WATER
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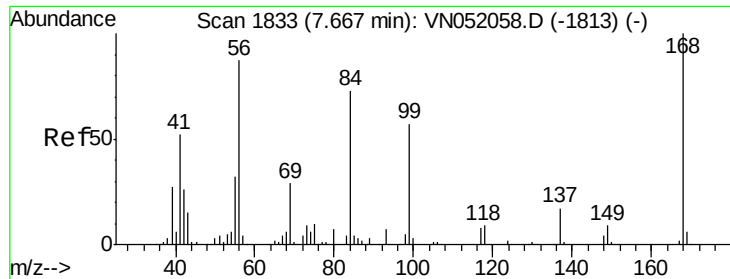
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Manual Integrations
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:168 Resp: 277483

Ion Ratio Lower Upper

168 100

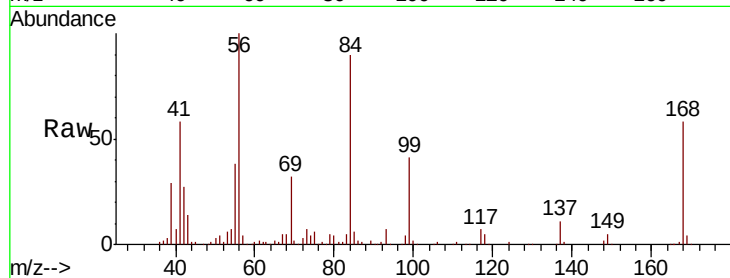
99 70.5 56.6 85.0

Manual Integrations

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11/1/2018 11:48:01 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

150000

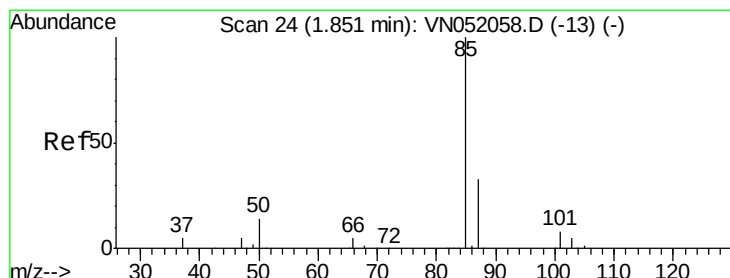
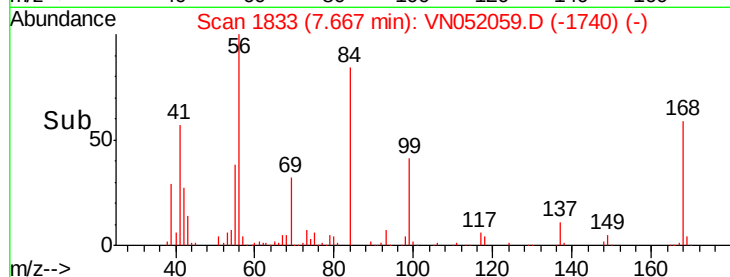
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 113.087 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052059.D

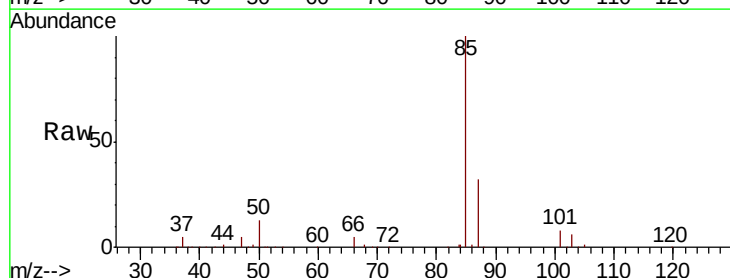
Acq: 30 Oct 2018 11:12

Tgt Ion: 85 Resp: 361983

Ion Ratio Lower Upper

85 100

87 31.5 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

250000

200000

150000

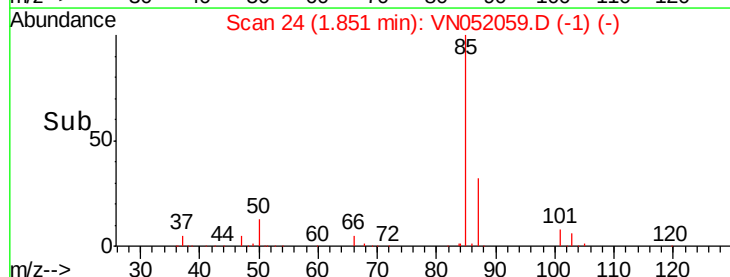
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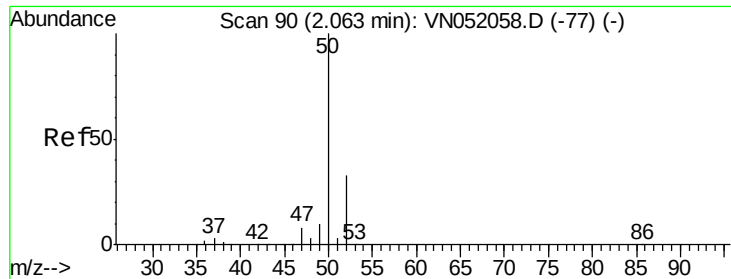
50000

0

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 106.772 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 50 Resp: 428905

Ion Ratio Lower Upper

50 100

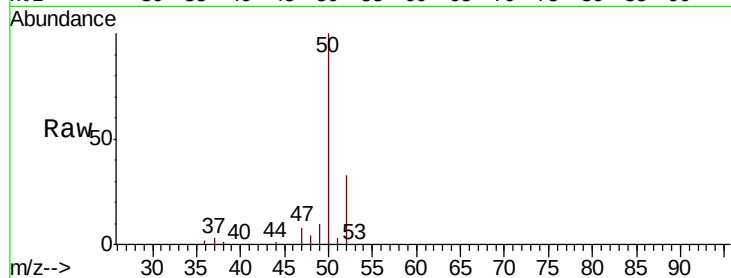
52 32.9 26.6 39.8

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC

2.06

250000

200000

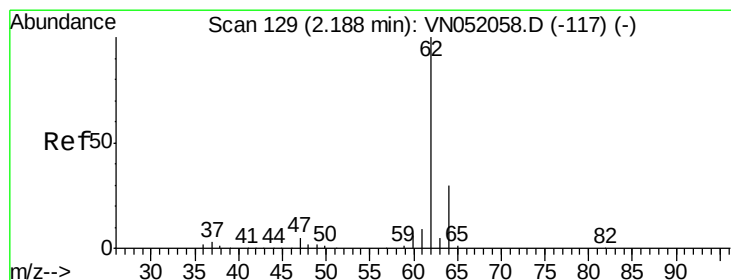
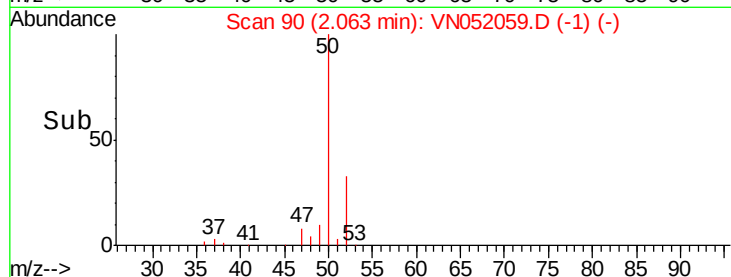
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 98.345 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN052059.D

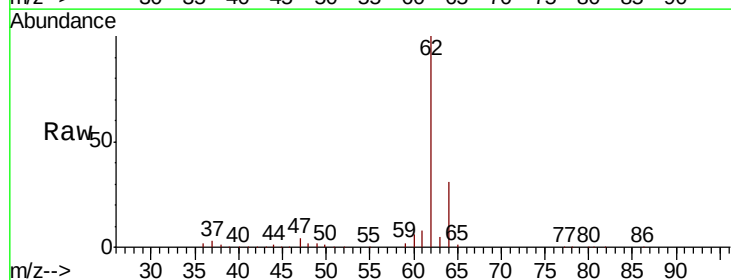
Acq: 30 Oct 2018 11:12

Tgt Ion: 62 Resp: 436954

Ion Ratio Lower Upper

62 100

64 31.4 23.7 35.5



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.19

300000

250000

200000

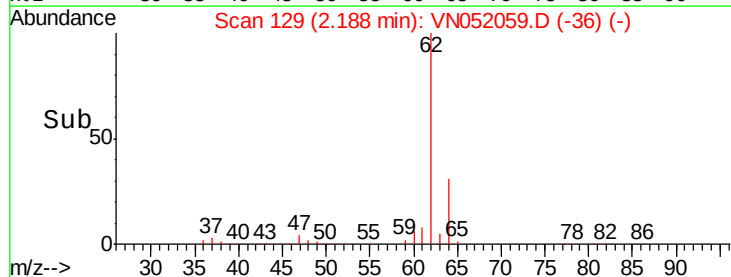
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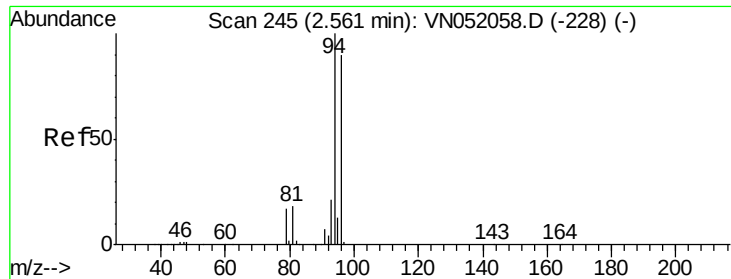
100000

50000

0

Time-->





#5

Bromomethane

Concen: 85.041 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 304815

Ion Ratio Lower Upper

94 100

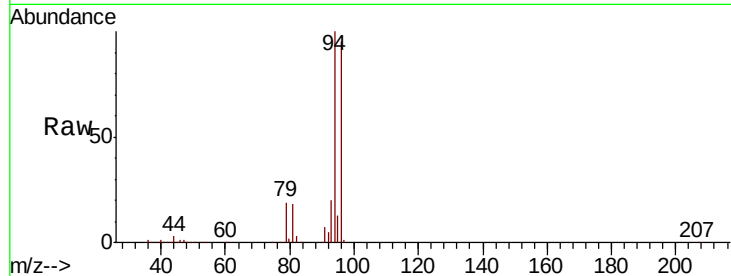
96 95.3 71.8 107.6

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

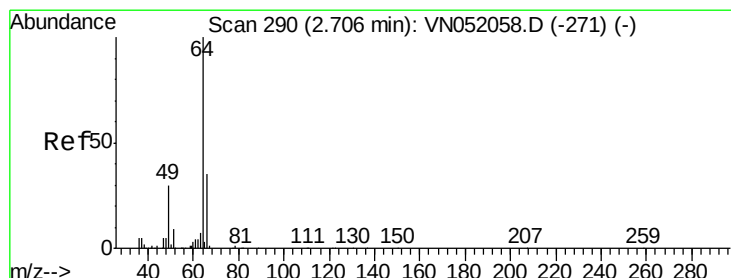
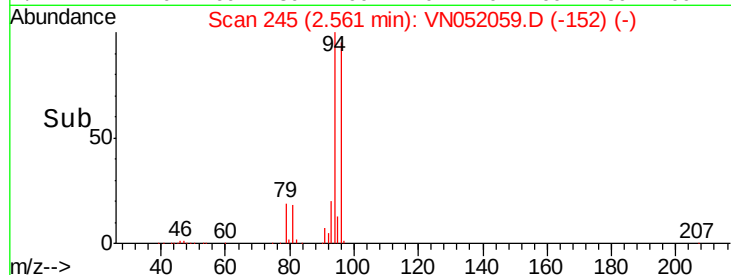
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 95.711 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN052059.D

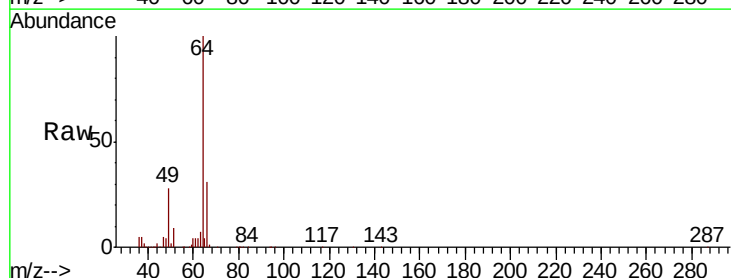
Acq: 30 Oct 2018 11:12

Tgt Ion: 64 Resp: 275714

Ion Ratio Lower Upper

64 100

66 31.1 27.9 41.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

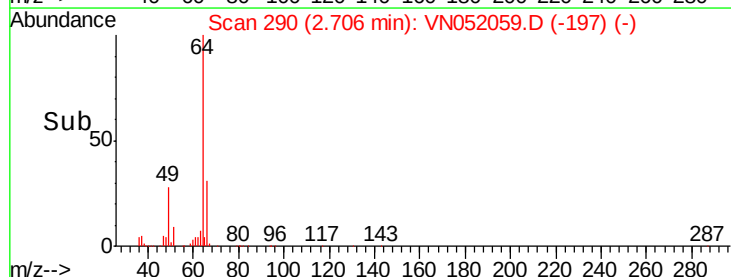
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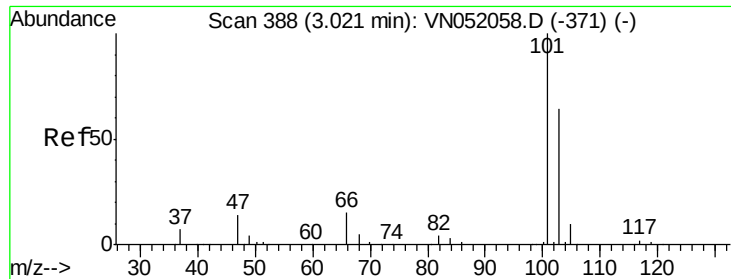
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50000

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Time-->





#7

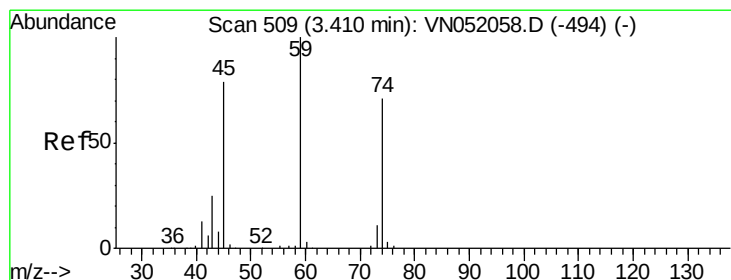
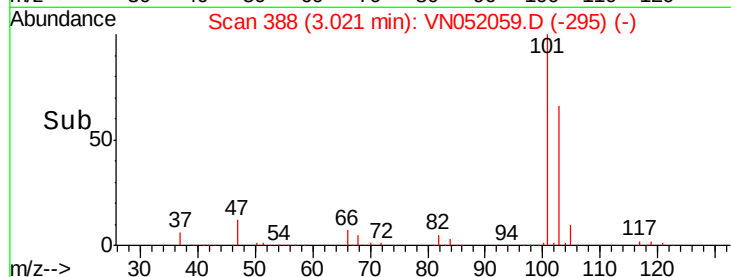
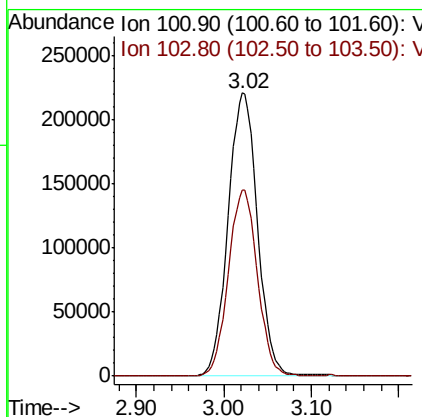
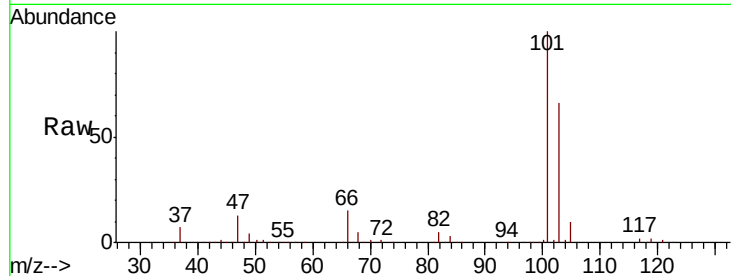
Trichlorofluoromethane
Concen: 102.991 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.0	76.4

Manual Integrations
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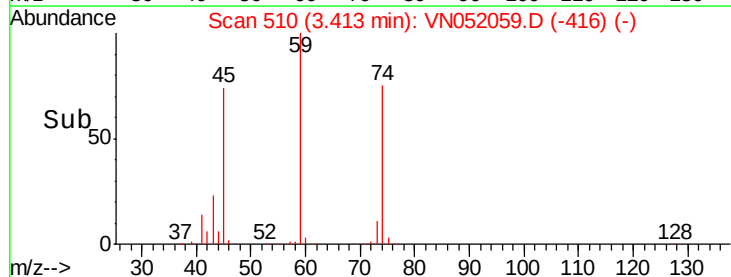
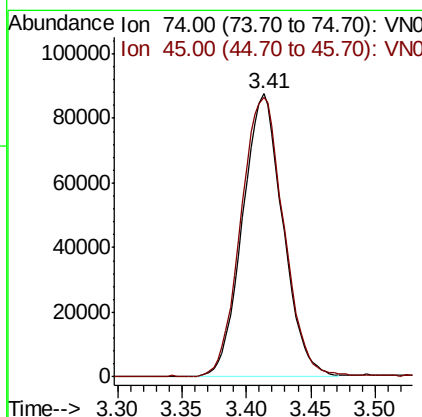
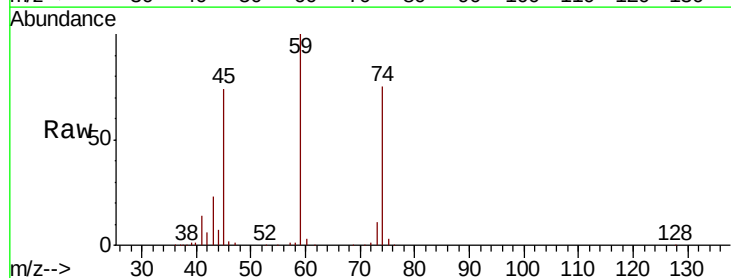
MMDadoda
11/1/2018 11:48:01 AM

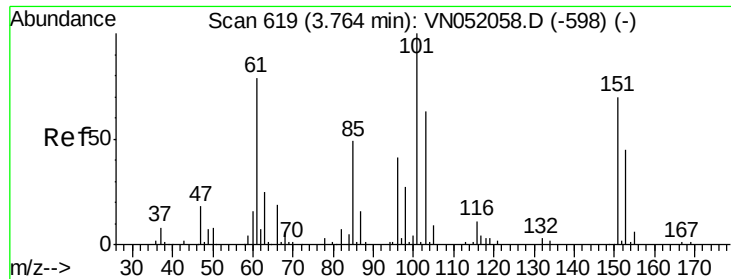


#8

Diethyl Ether
Concen: 102.646 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.5	55.6	166.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 105.741 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

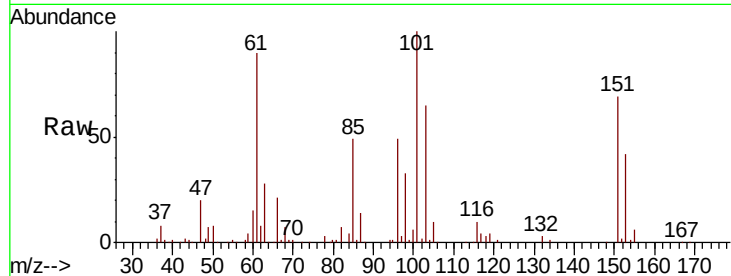
ClientSampled :

VSTDIC100

Tot Ion:	101	Resp:	302036
Ion Ratio	Lower	Upper	
101	100		
85	48.1	38.6	58.0
151	66.8	52.6	78.8

Manual Integrations
APPROVED

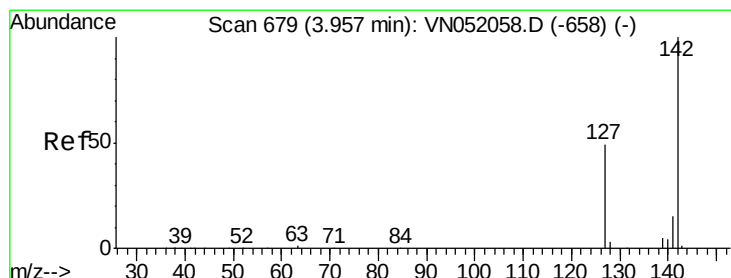
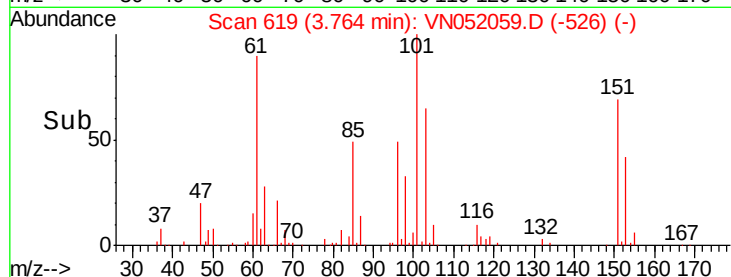
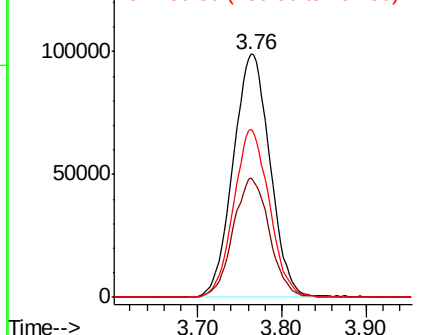
MMDadoda
11/1/2018 11:48:01 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 102.417 ug/l

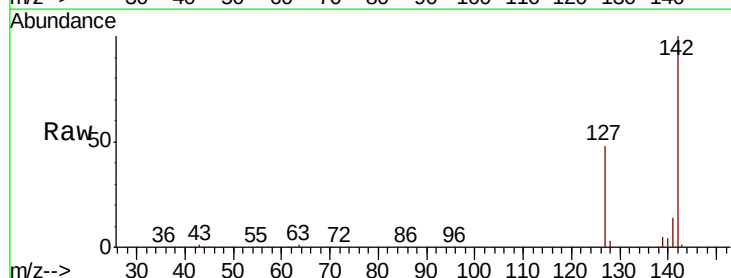
RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

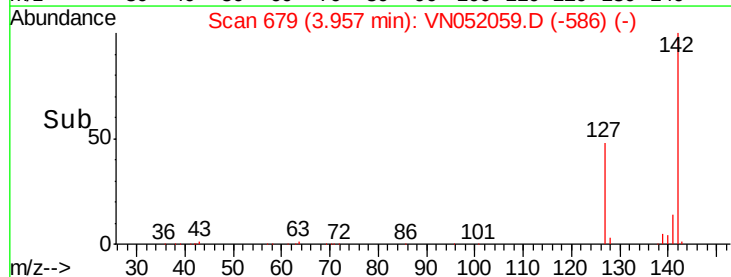
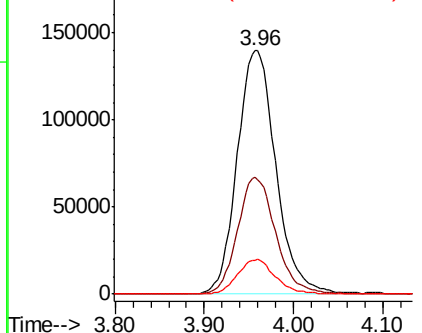
Tgt Ion:	142	Resp:	419644
Ion Ratio	Lower	Upper	
142	100		
127	47.3	37.3	55.9
141	14.1	11.4	17.2

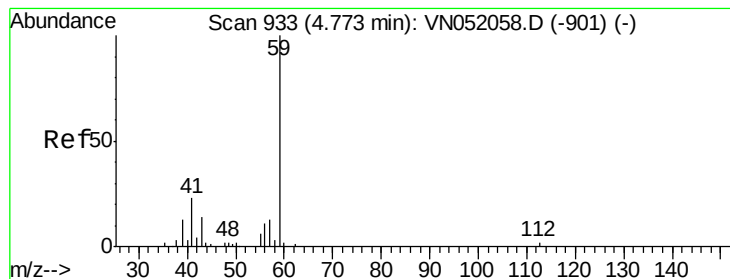


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

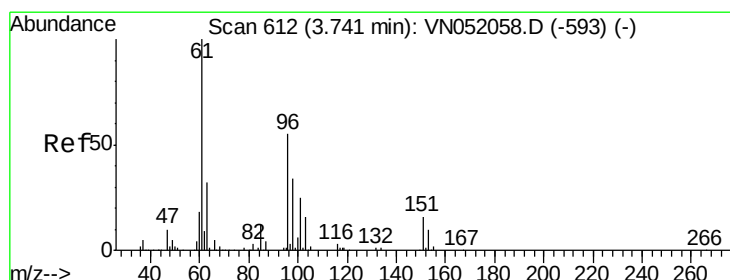
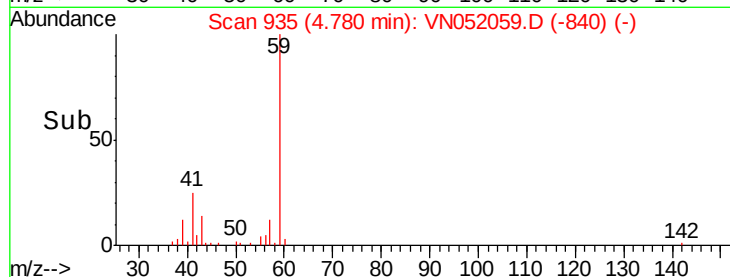
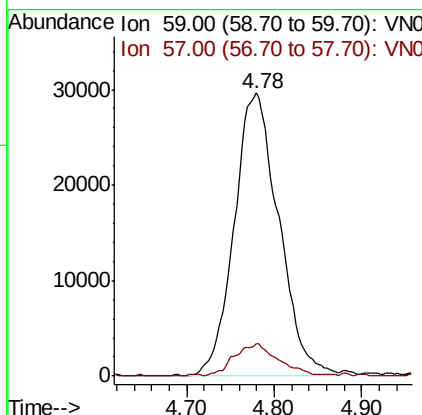
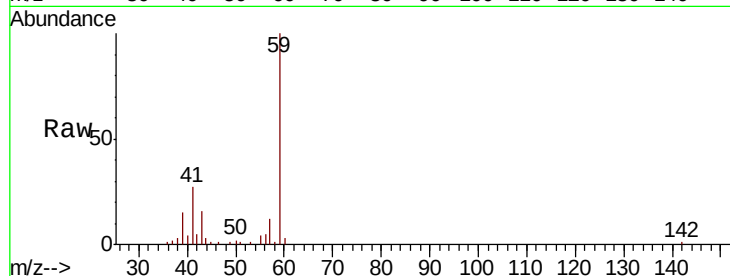
Tert butyl alcohol
 Concen: 529.814 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.4	7.0	10.6#

Manual Integrations
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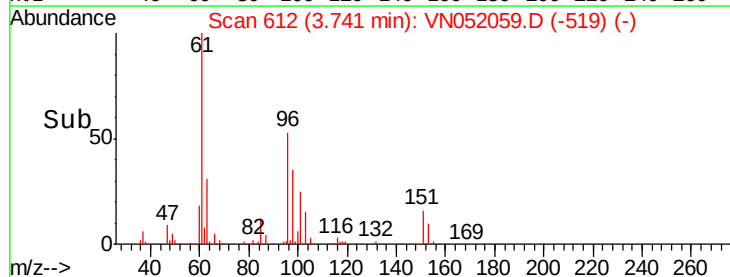
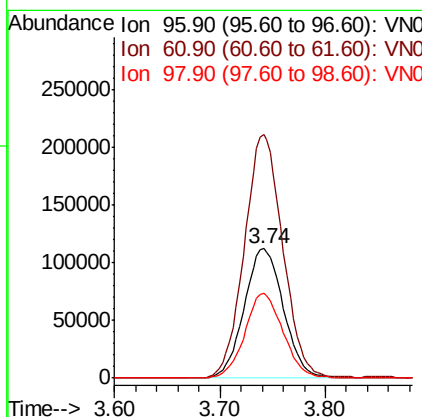
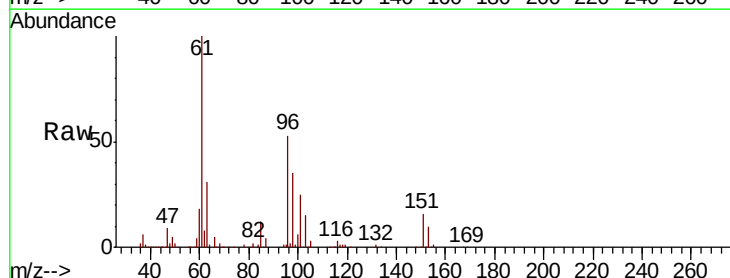
MMDadoda
 11/1/2018 11:48:01 AM

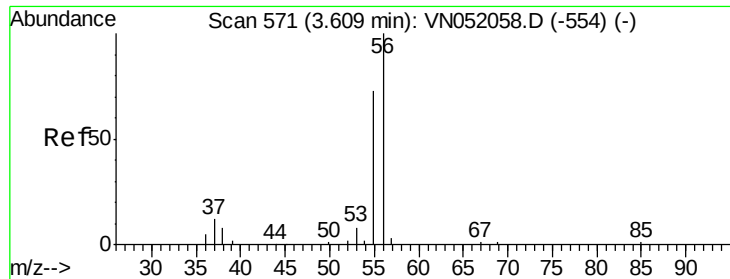


#12

1,1-Dichloroethene
 Concen: 106.952 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	188.0	145.7	218.5
98	65.3	49.8	74.8





#13

Acrolein

Concen: 563.534 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 119767

Ion Ratio Lower Upper

56 100

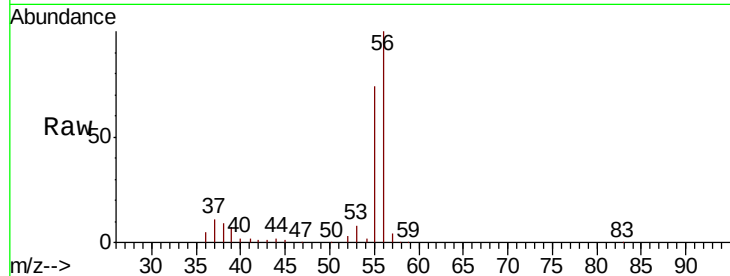
55 69.7 59.9 89.9

Manual Integrations

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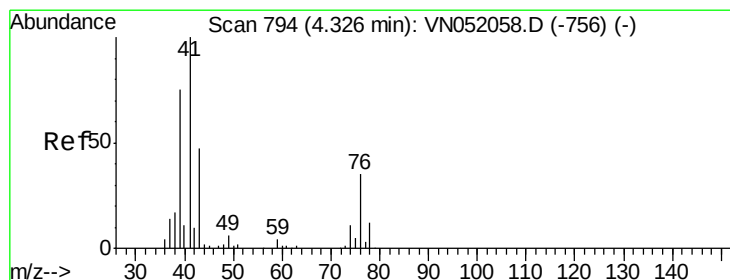
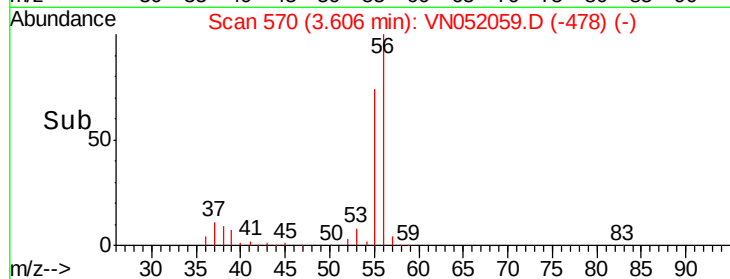
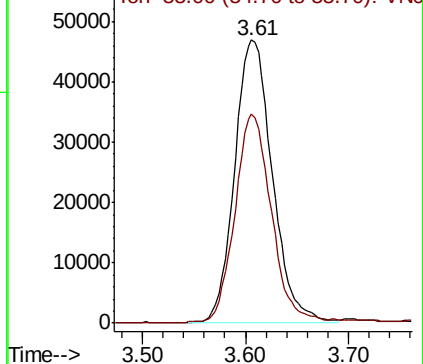
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 107.289 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

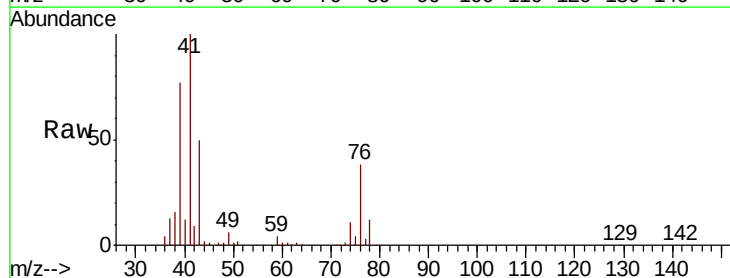
Tgt Ion: 41 Resp: 594440

Ion Ratio Lower Upper

41 100

39 72.6 58.1 87.1

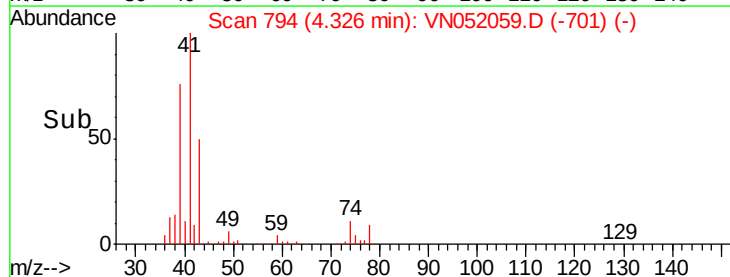
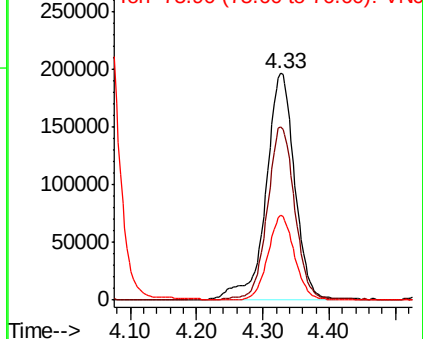
76 34.0 26.0 39.0

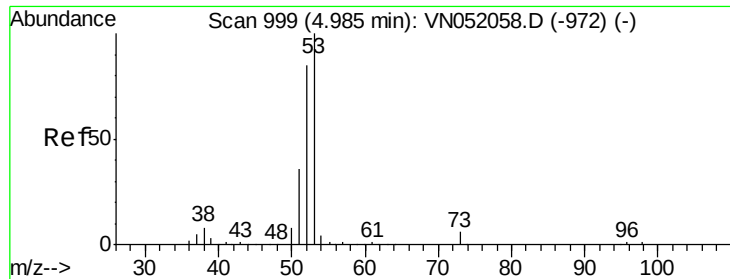


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 537.220 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

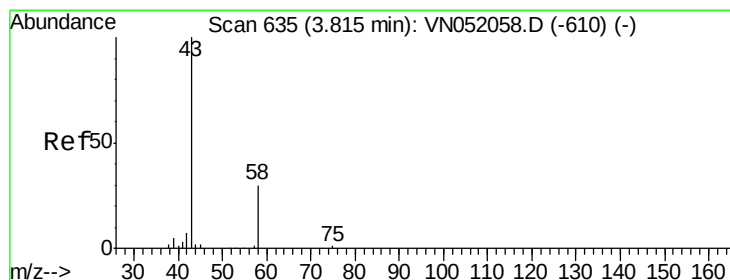
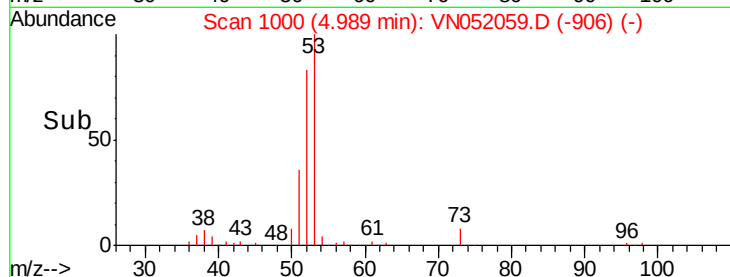
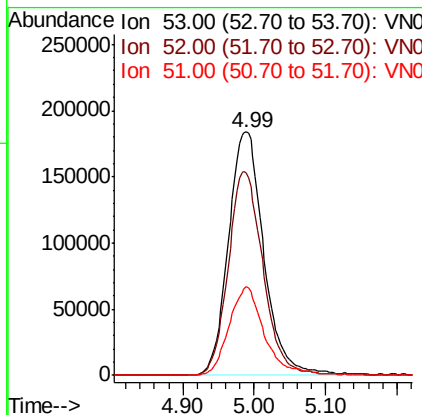
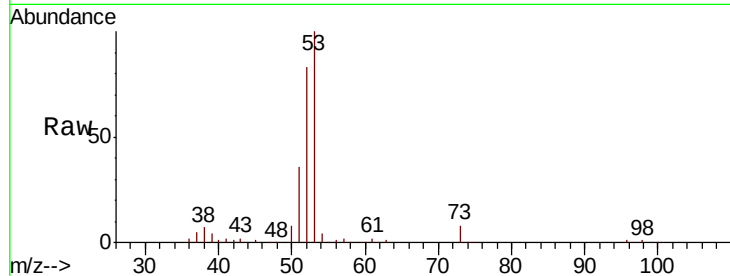
ClientSampleId :

VSTDICC100

Tot Ion:	53	Resp:	634780
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.6	100.0
51	36.3	29.0	43.6

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#16

Acetone

Concen: 458.576 ug/l

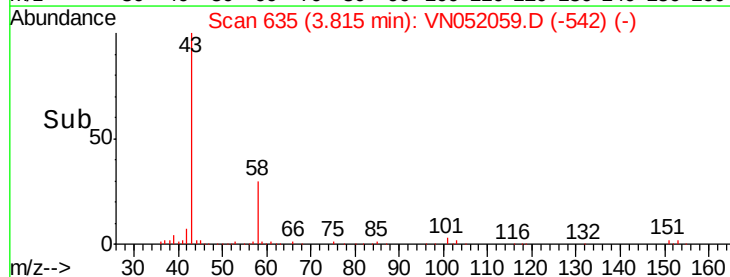
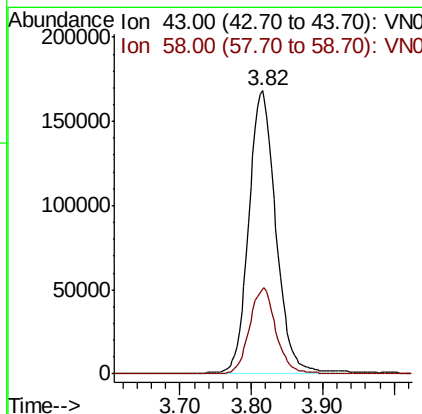
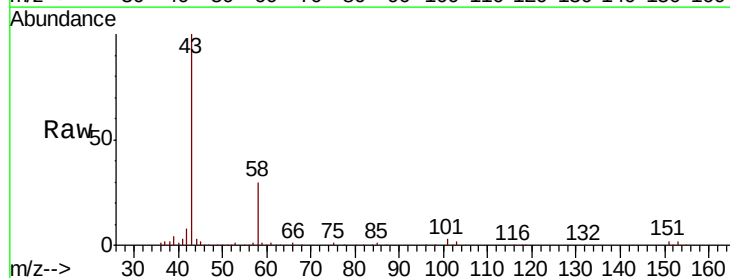
RT: 3.82 min Scan# 635

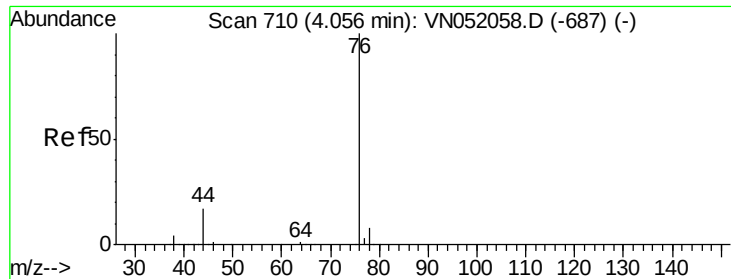
Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Tgt Ion:	43	Resp:	446540
Ion	Ratio	Lower	Upper
43	100		
58	29.9	24.2	36.2





#17

Carbon Disulfide

Concen: 106.779 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 944160

Ion Ratio Lower Upper

76 100

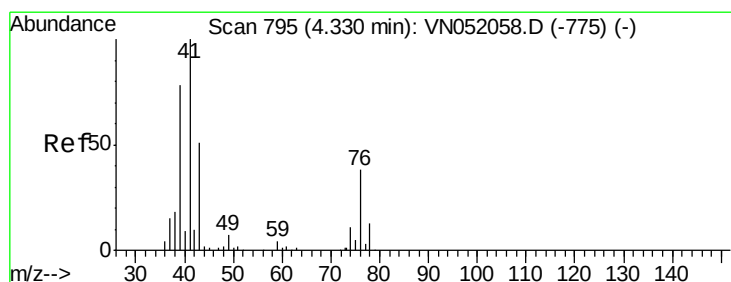
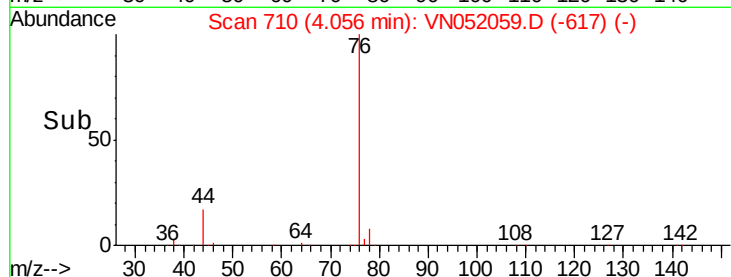
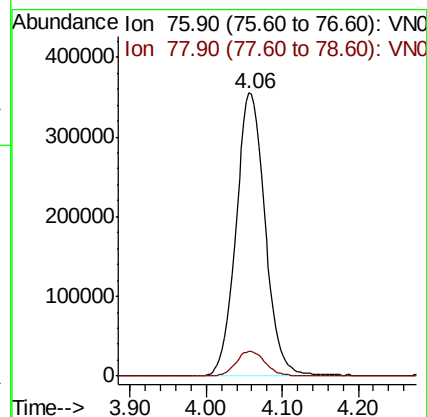
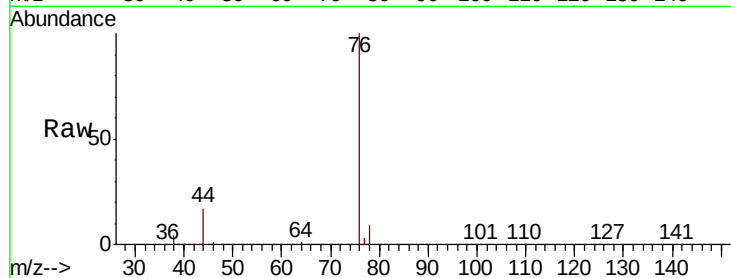
78 8.7 6.8 10.2

Manual Integrations

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#18

Methyl Acetate

Concen: 90.919 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN052059.D

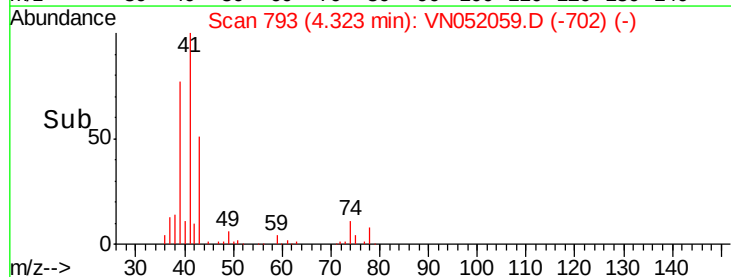
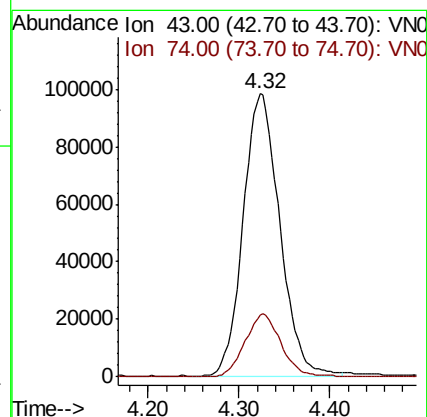
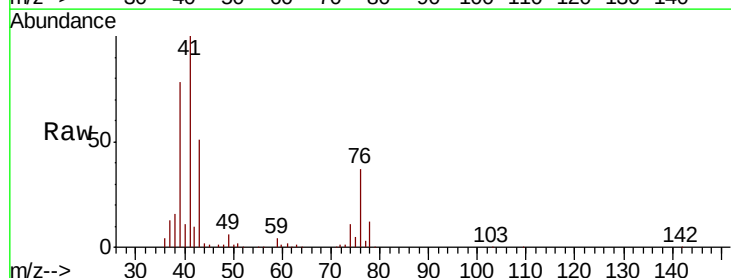
Acq: 30 Oct 2018 11:12

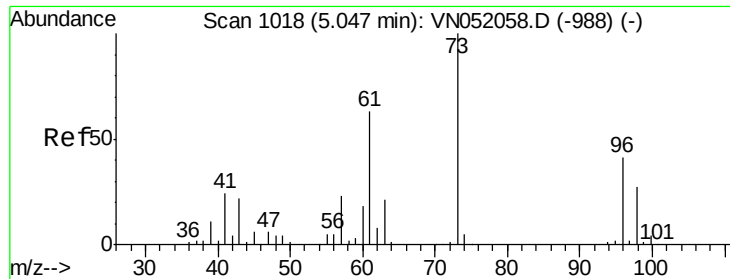
Tgt Ion: 43 Resp: 275062

Ion Ratio Lower Upper

43 100

74 21.8 17.9 26.9





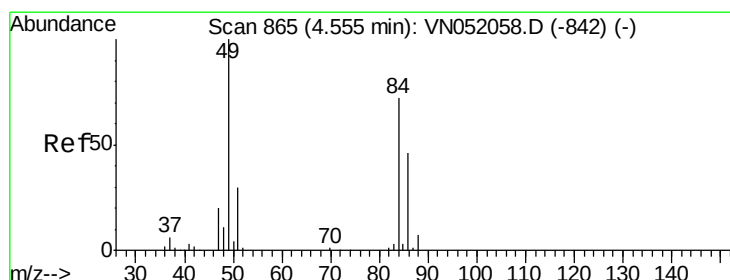
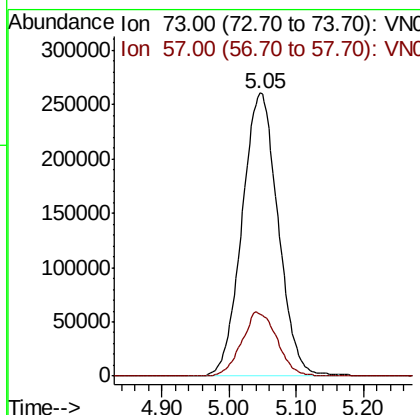
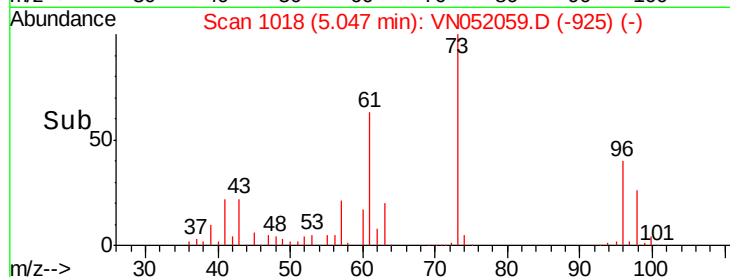
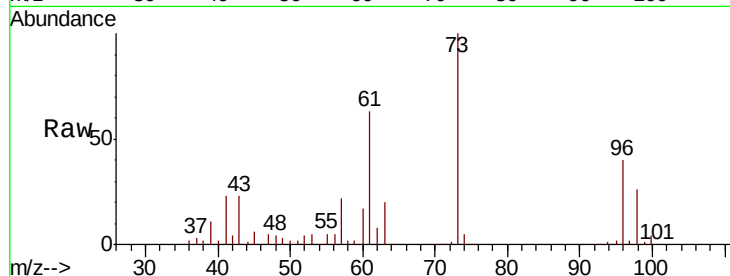
#19
Methvl tert-butyl Ether
Concen: 106.694 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 969173
Ion Ratio Lower Upper
73 100
57 22.0 18.7 28.1

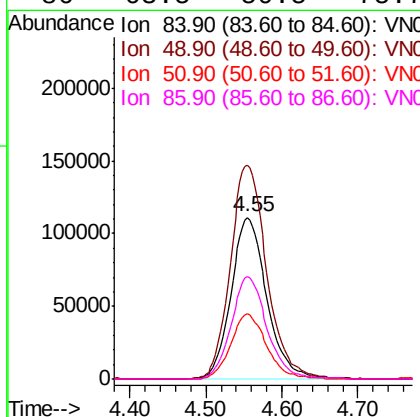
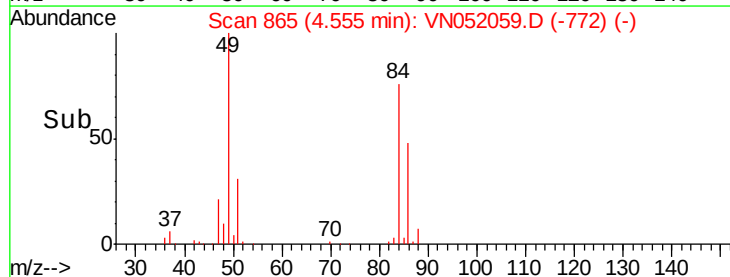
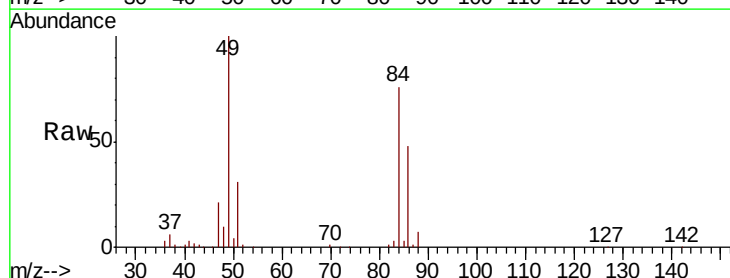
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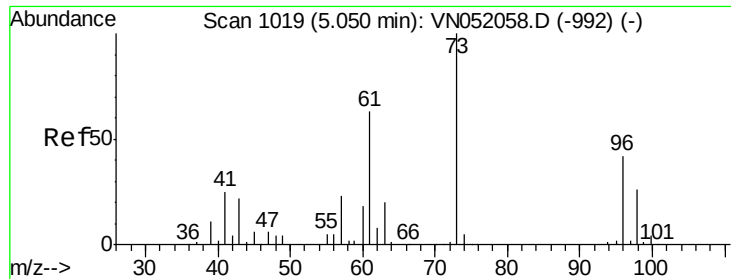
MMDadoda
11/1/2018 11:48:01 AM



#20
Methylene Chloride
Concen: 108.031 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion: 84 Resp: 361830
Ion Ratio Lower Upper
84 100
49 131.9 110.6 165.8
51 40.3 33.7 50.5
86 63.5 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 108.818 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 335435

Ion Ratio Lower Upper

96 100

61 156.8 118.6 178.0

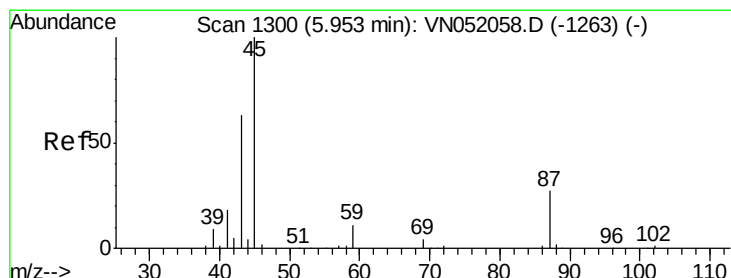
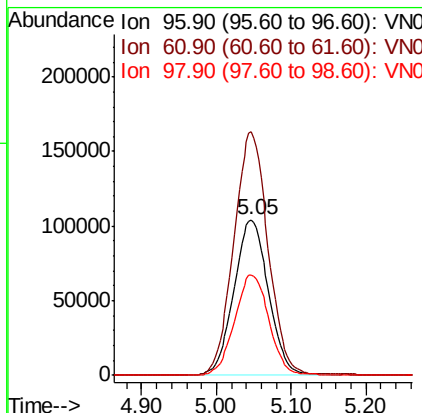
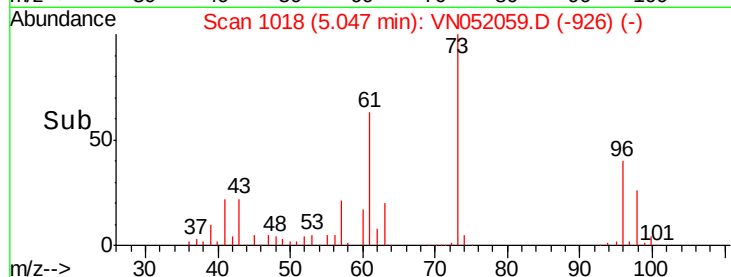
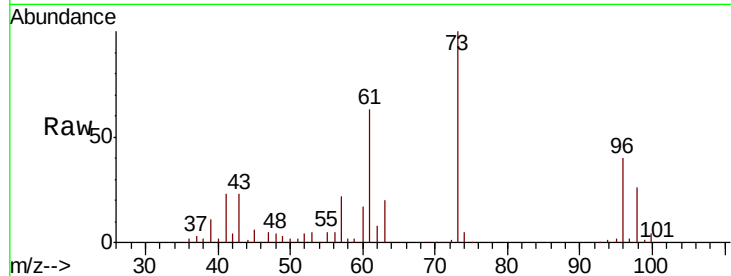
98 64.6 49.7 74.5

Manual Integrations

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#22

Diisopropyl ether

Concen: 99.894 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Tgt Ion: 45 Resp: 1235342

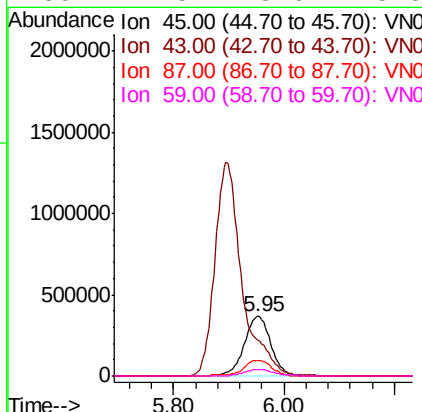
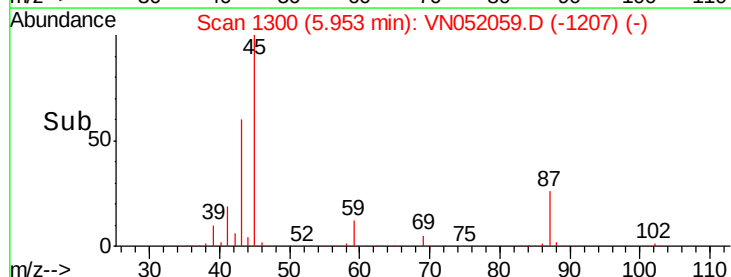
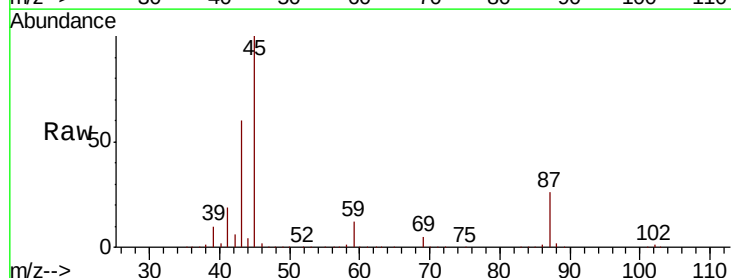
Ion Ratio Lower Upper

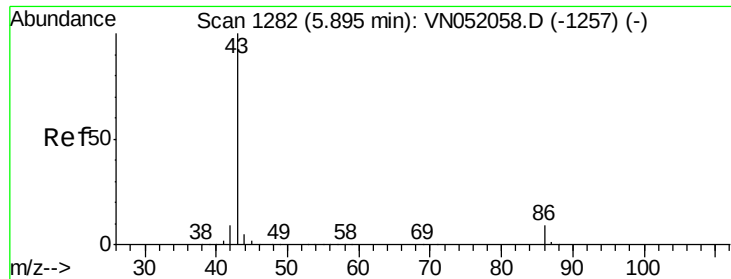
45 100

43 59.4 50.5 75.7

87 26.1 21.5 32.3

59 11.5 8.6 13.0





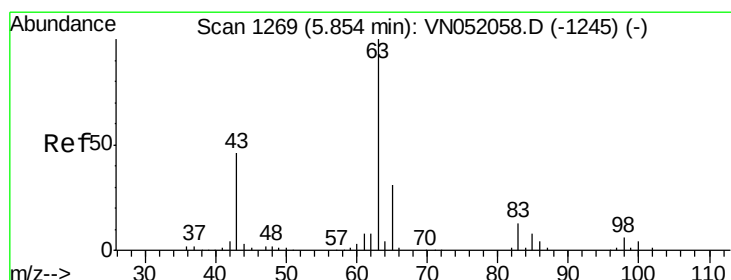
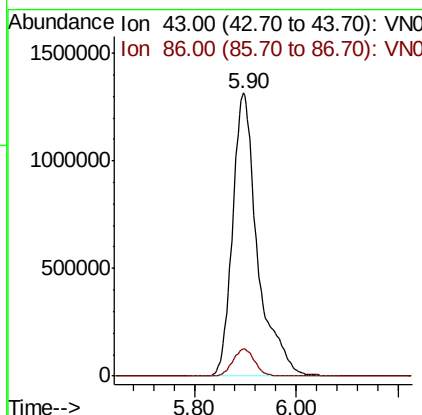
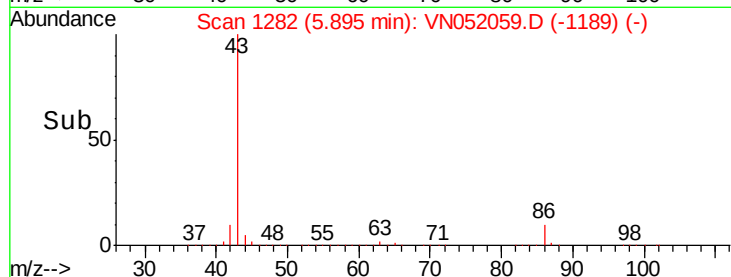
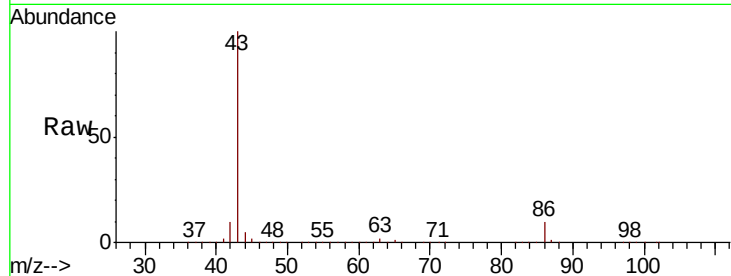
#23
 Vinyl Acetate
 Concen: 548.752 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 43 Resp: 4488709
 Ion Ratio Lower Upper
 43 100
 86 9.5 7.3 10.9

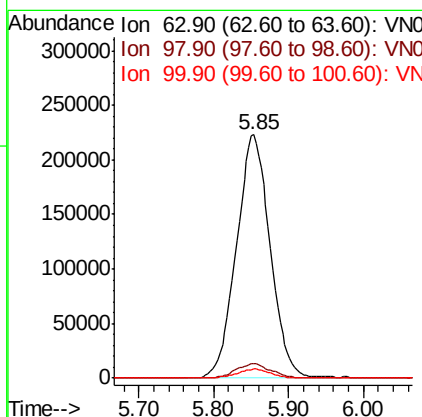
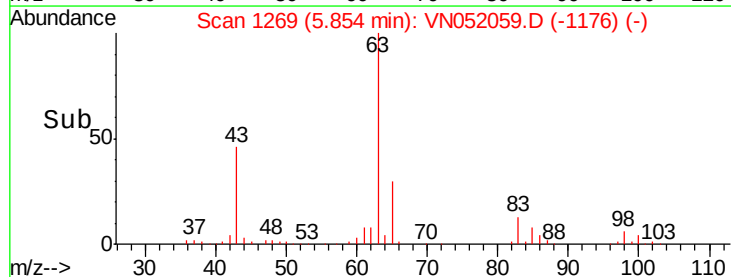
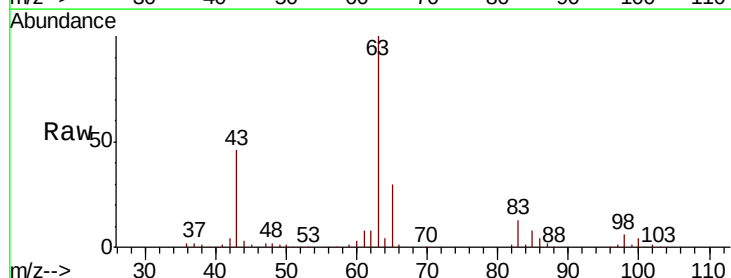
Manual Integrations
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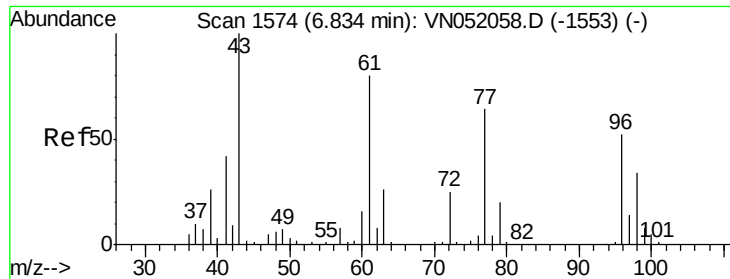
MMDadoda
 11/1/2018 11:48:01 AM



#24
 1,1-Dichloroethane
 Concen: 102.737 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion: 63 Resp: 699550
 Ion Ratio Lower Upper
 63 100
 98 5.9 2.8 8.4
 100 3.7 2.0 6.0





#25

2-Butanone

Concen: 537.652 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 43 Resp: 739332

Ion Ratio Lower Upper

43 100

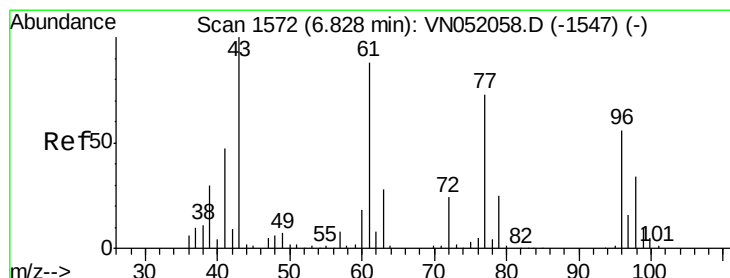
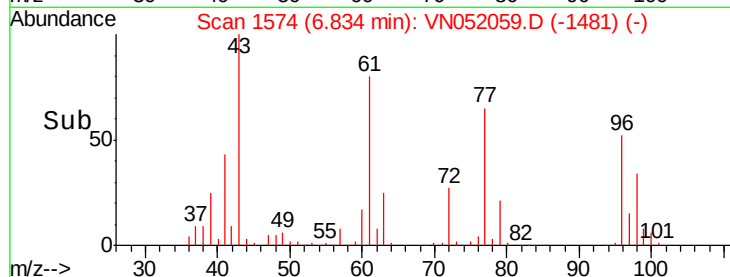
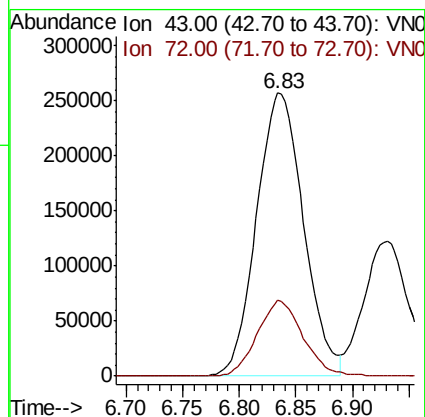
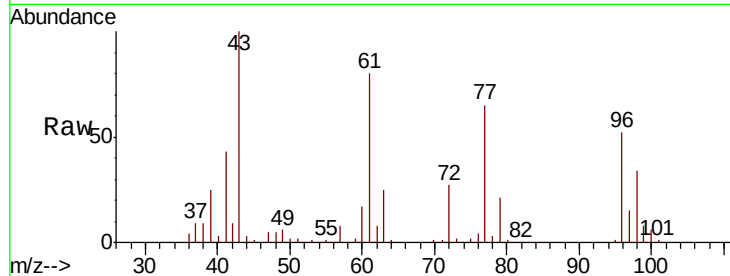
72 27.0 20.2 30.2

Manual Integrations

APPROVED

MMDadoda

11/1/2018 11:48:01 AM



#26

2,2-Dichloropropane

Concen: 101.511 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052059.D

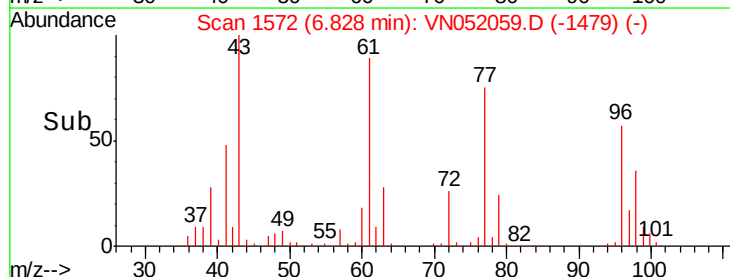
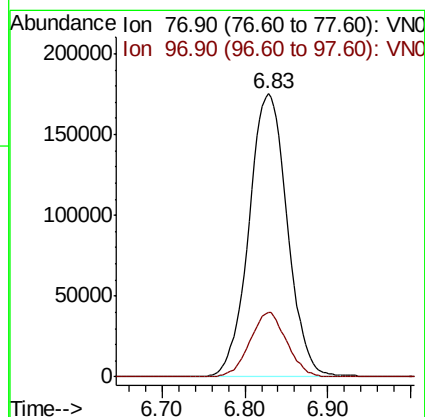
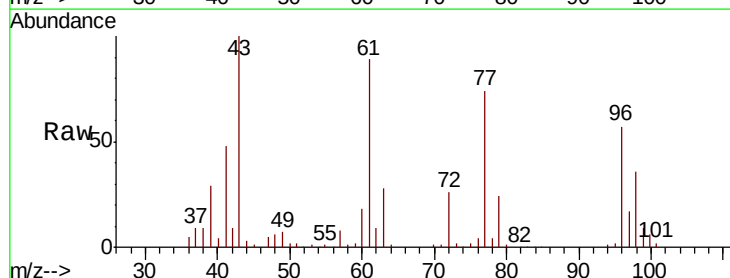
Acq: 30 Oct 2018 11:12

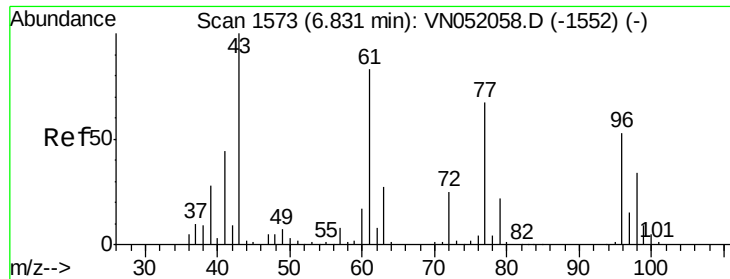
Tgt Ion: 77 Resp: 564230

Ion Ratio Lower Upper

77 100

97 21.9 10.5 31.5





#27

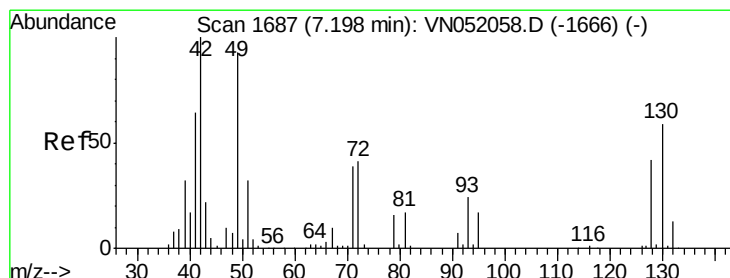
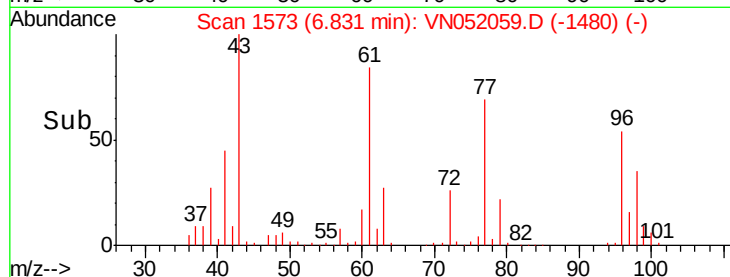
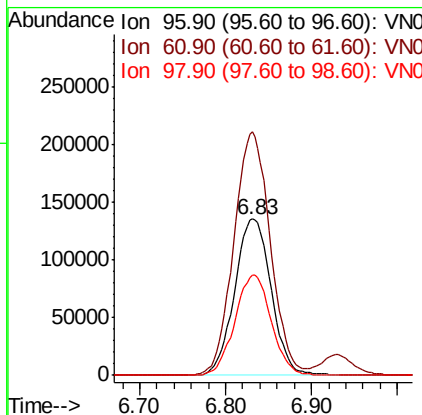
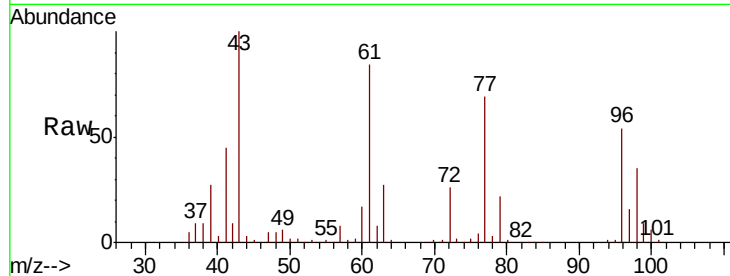
cis-1,2-Dichloroethene
Concen: 104.766 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100	400270		
61	154.8		0.0	312.8
98	64.0		0.0	127.0

Manual Integrations
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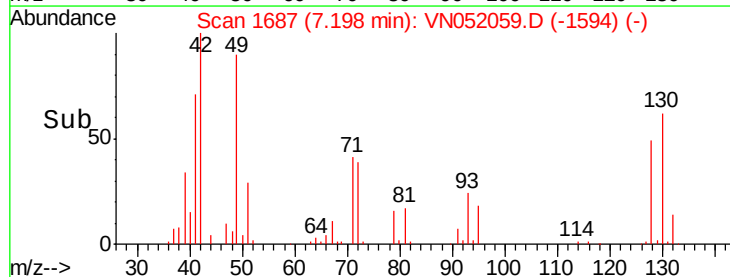
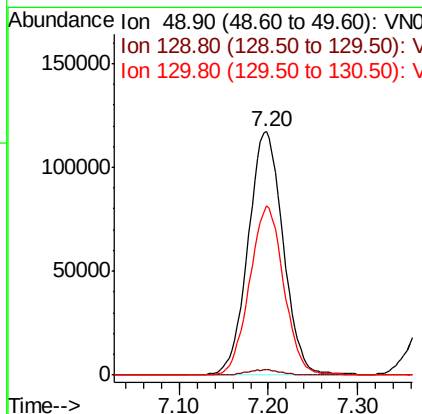
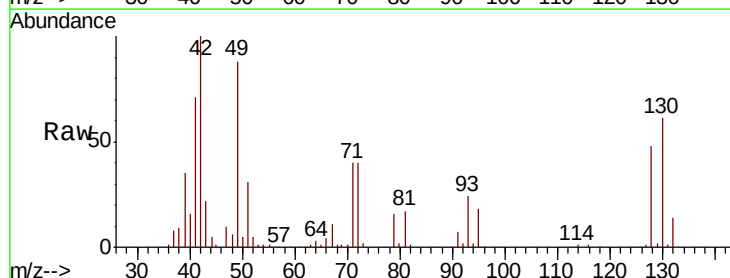
MMDadoda
11/1/2018 11:48:01 AM

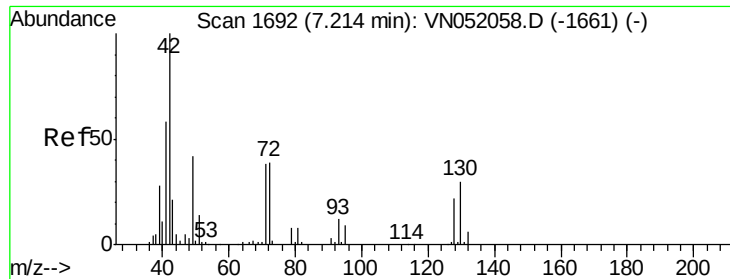


#28

Bromochloromethane
Concen: 85.688 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	319482		
129	2.1		0.0	2.4
130	67.9		50.8	76.2





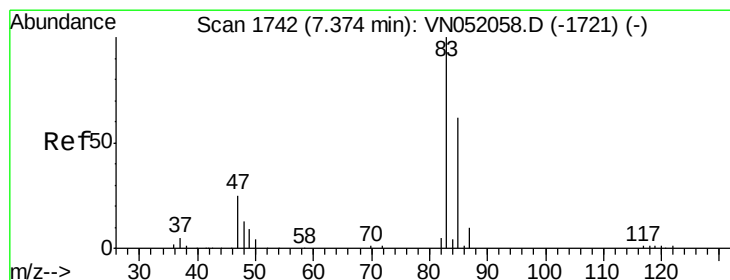
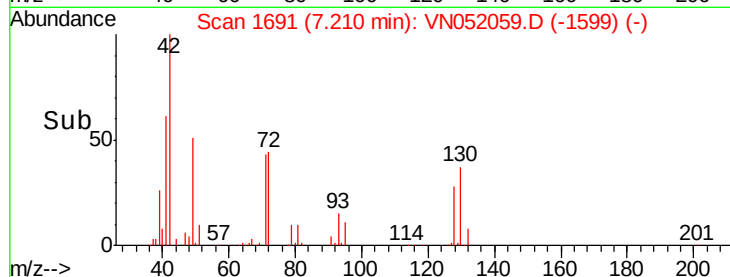
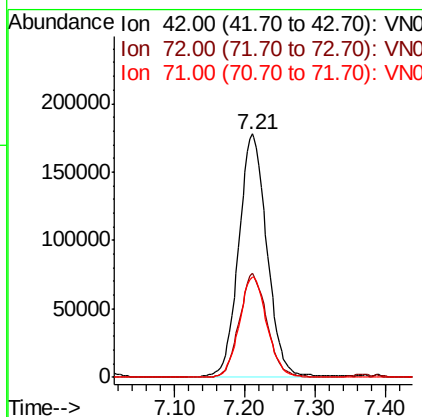
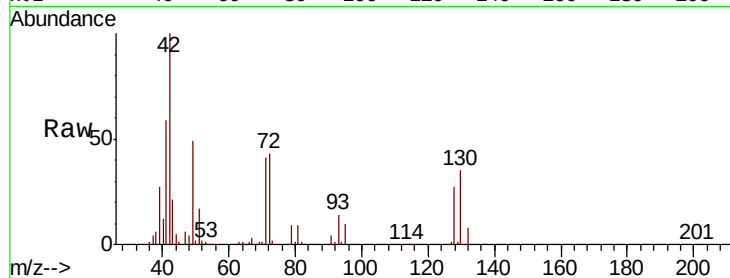
#29
Tetrahydrofuran
Concen: 504.247 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	32.5	48.7
71	40.3	30.6	46.0

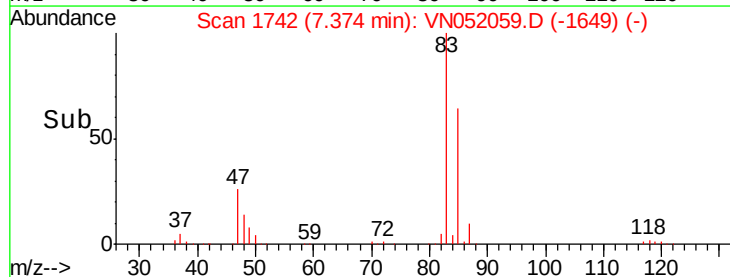
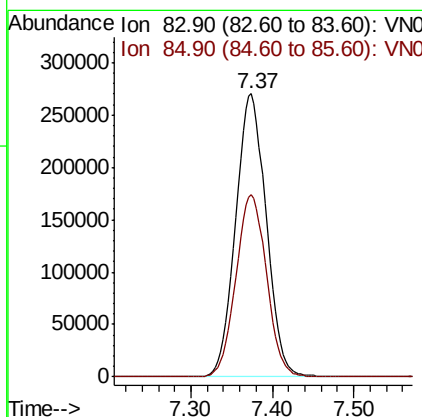
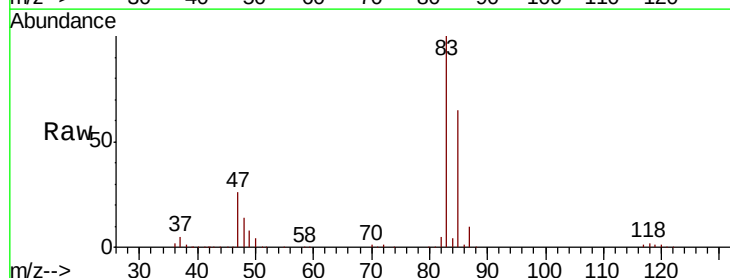
Manual Integrations
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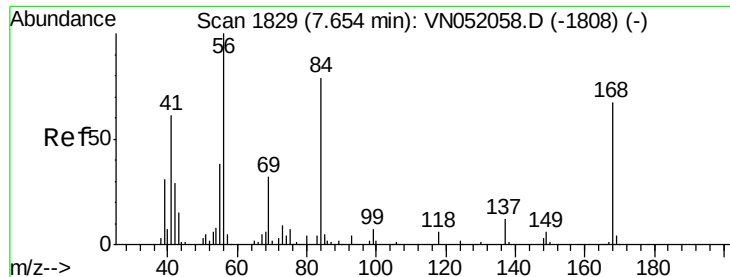
MMDadoda
11/1/2018 11:48:01 AM



#30
Chloroform
Concen: 101.100 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	49.6	74.4





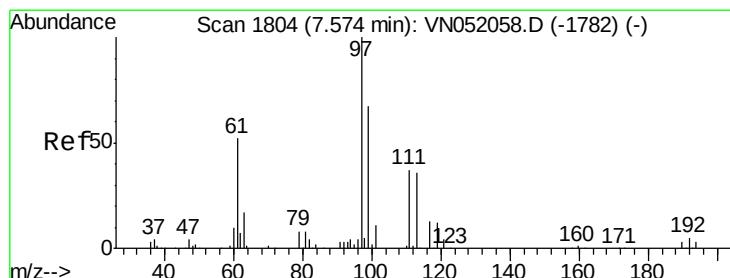
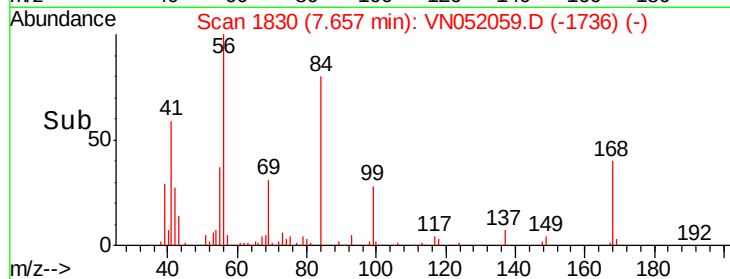
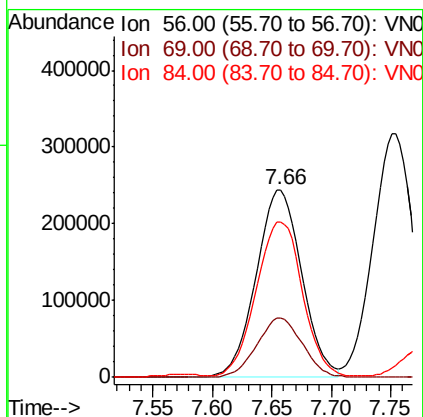
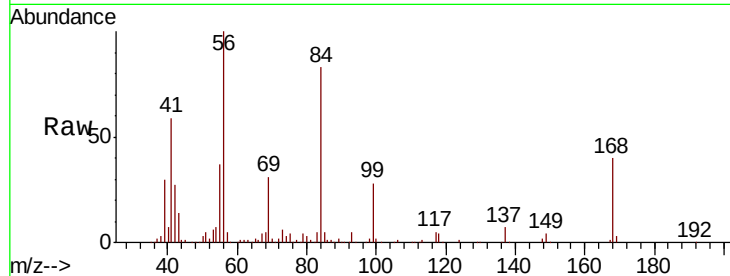
#31
Cyclohexane
Concen: 60.074 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.4	25.8	38.6
84	81.7	63.5	95.3

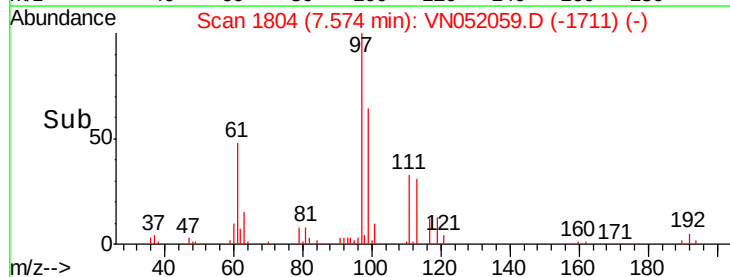
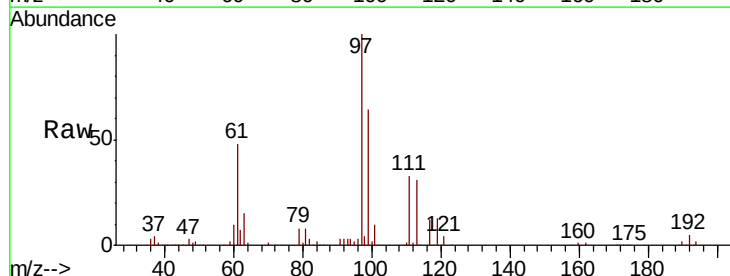
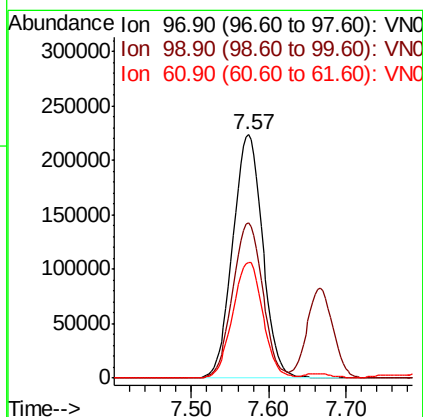
Manual Integrations
APPROVED

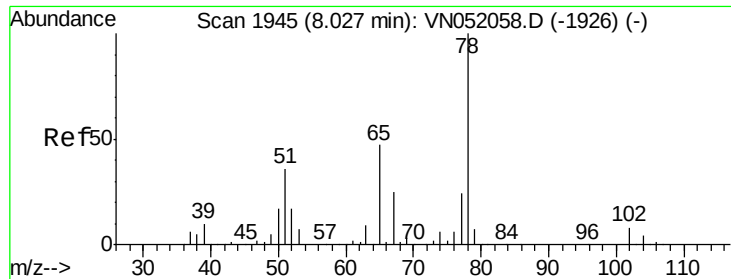
MMDadoda
11/1/2018 11:48:01 AM



#32
1,1,1-Trichloroethane
Concen: 113.163 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.2
61	48.2	40.3	60.5





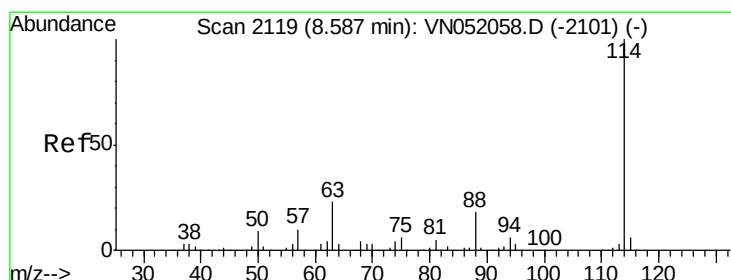
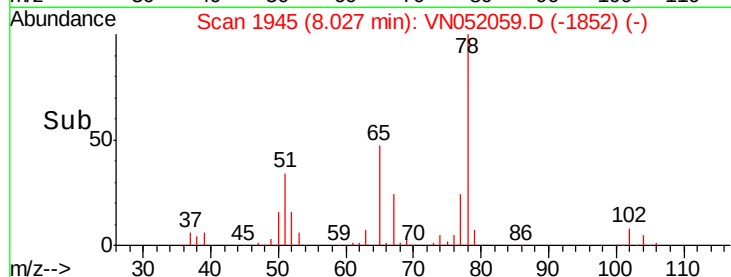
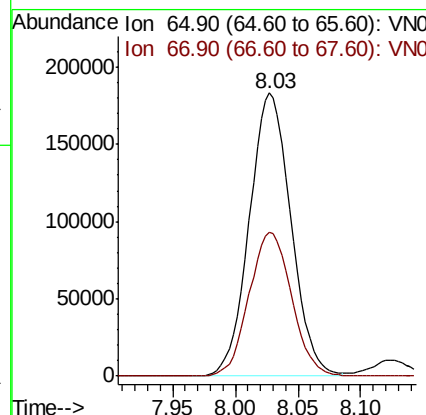
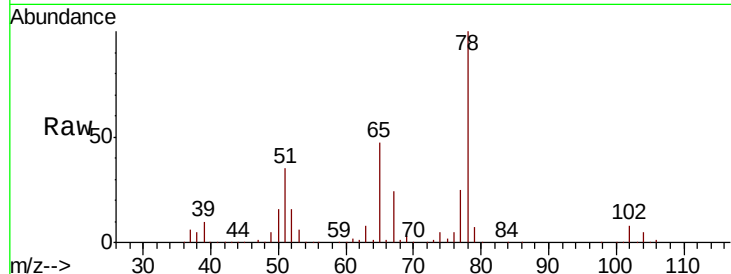
#33
 1,2-Dichloroethane-d4
 Concen: 113.163 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	105.2

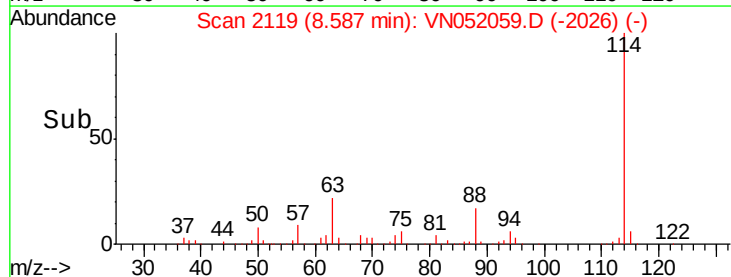
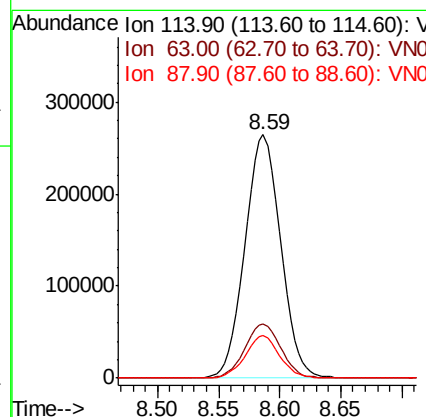
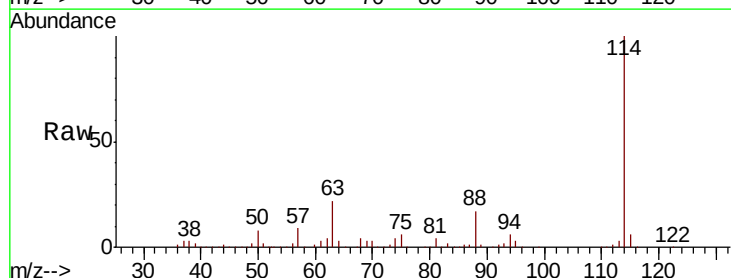
Manual Integrations
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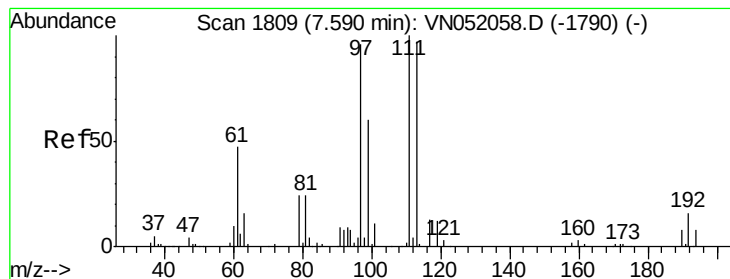
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 11/1/2018 11:48:01 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	46.0
88	17.3	0.0	35.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

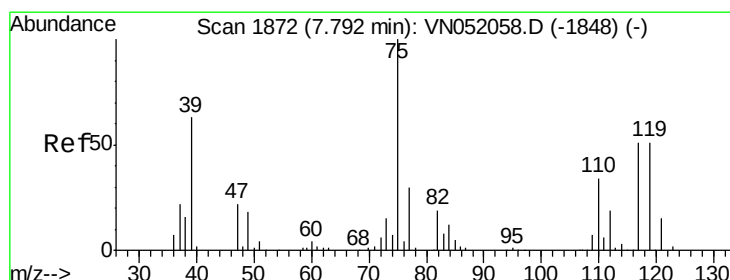
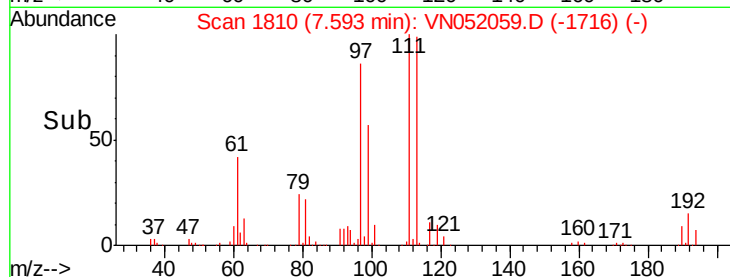
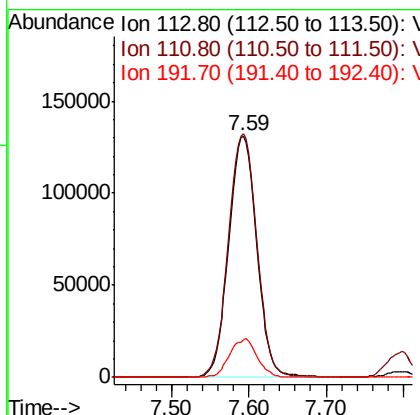
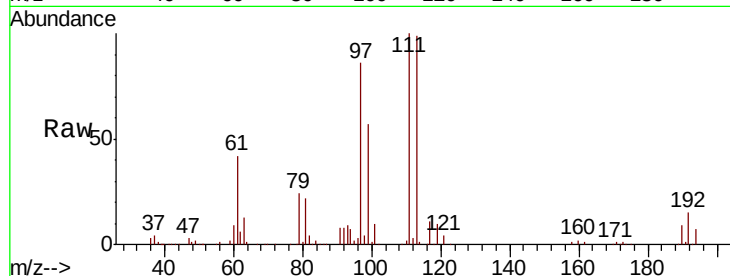
ClientSampleId :

VSTDIC100

Tot Ion:	113	Resp:	328019
Ion Ratio	Lower	Upper	
113	100		
111	102.5	83.1	124.7
192	15.8	12.7	19.1

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 101.614 ug/l

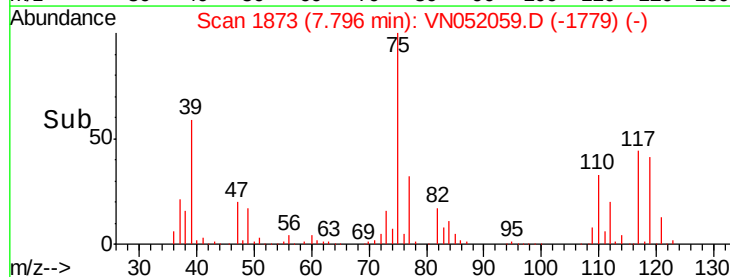
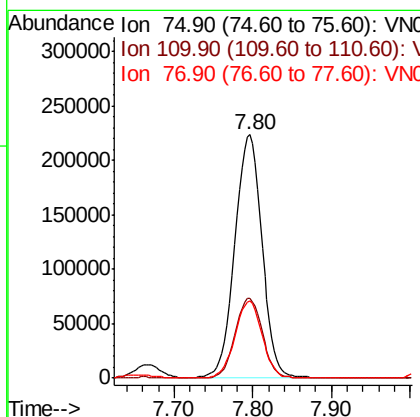
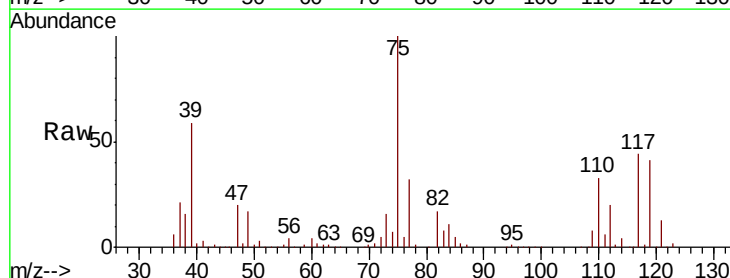
RT: 7.80 min Scan# 1873

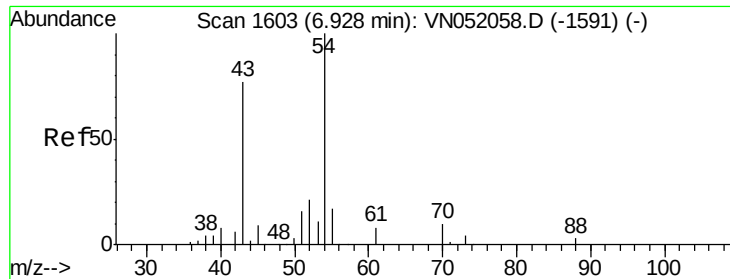
Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Tgt Ion:	75	Resp:	540125
Ion Ratio	Lower	Upper	
75	100		
110	32.8	16.0	48.0
77	32.0	24.5	36.7





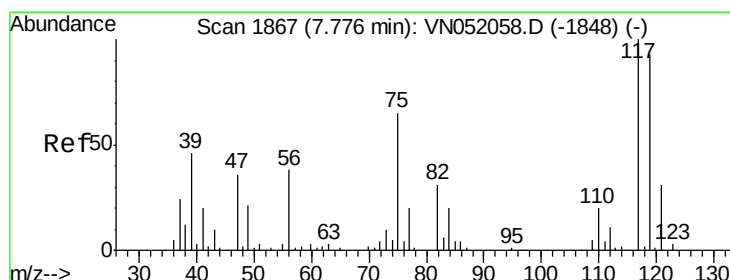
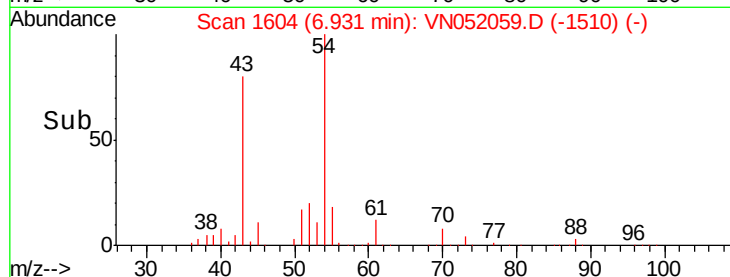
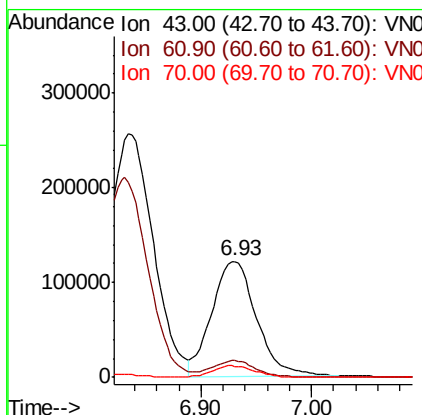
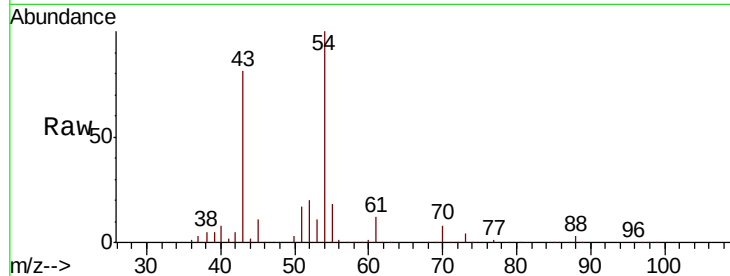
#37
Ethyl Acetate
Concen: 107.566 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.9	16.3
70	9.2	8.6	12.8

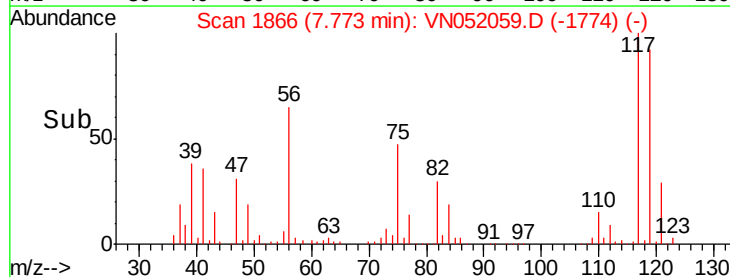
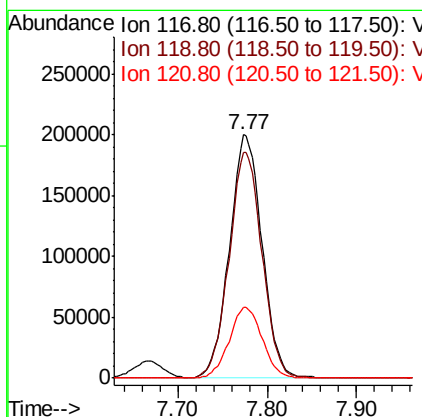
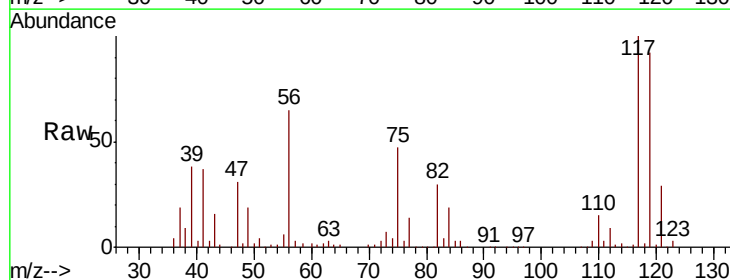
Manual Integrations
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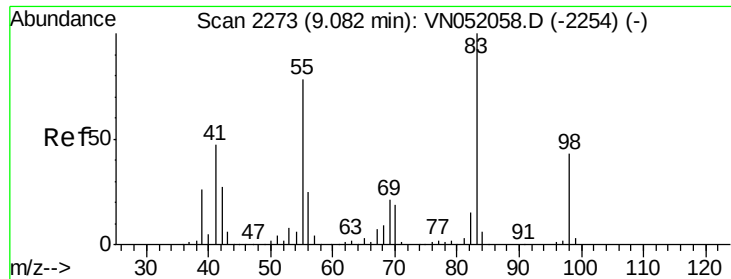
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#38
Carbon Tetrachloride
Concen: 114.368 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.5	74.8	112.2
121	28.9	25.1	37.7





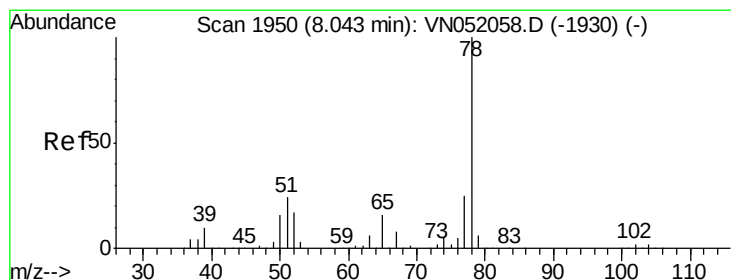
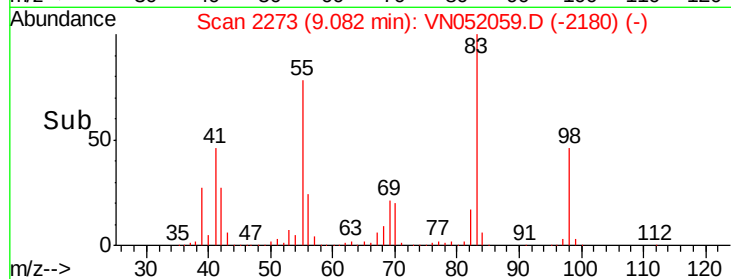
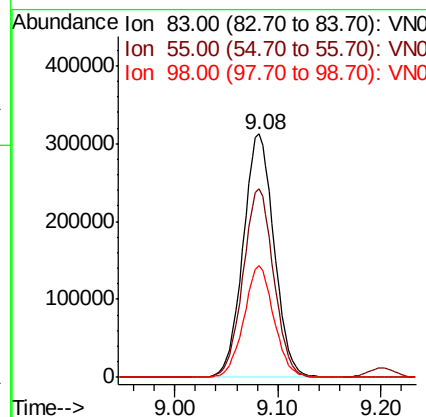
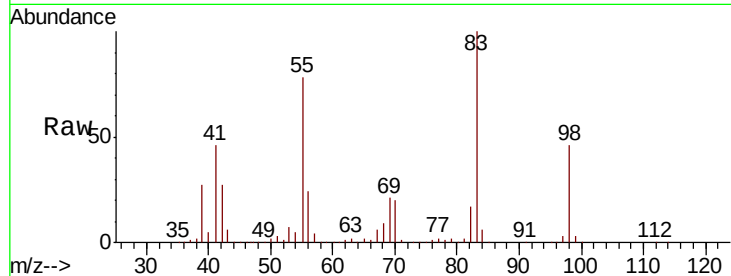
#39
Methylvlcyclohexane
Concen: 102.527 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.7	62.0	93.0
98	45.8	34.7	52.1

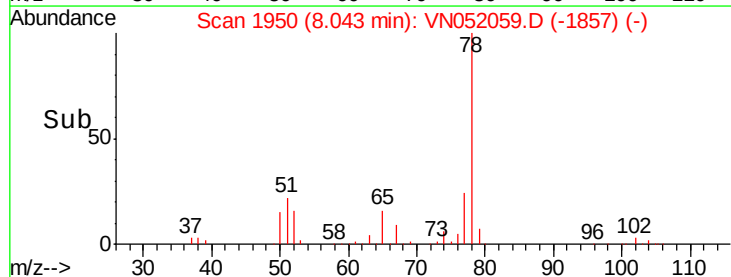
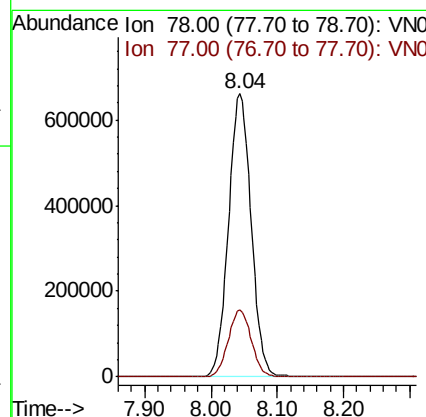
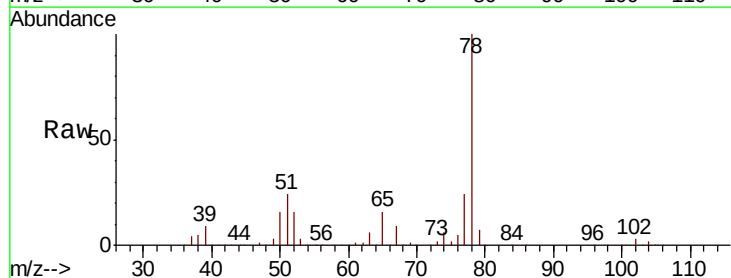
Manual Integrations
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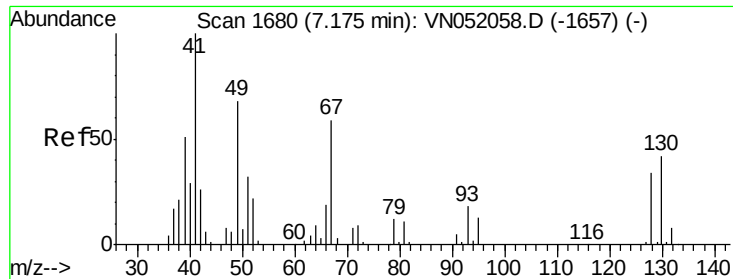
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#40
Benzene
Concen: 104.320 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.8	29.6





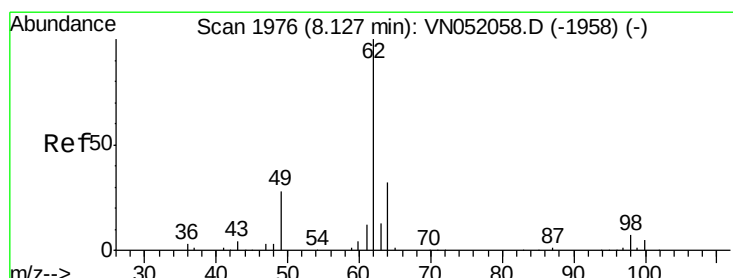
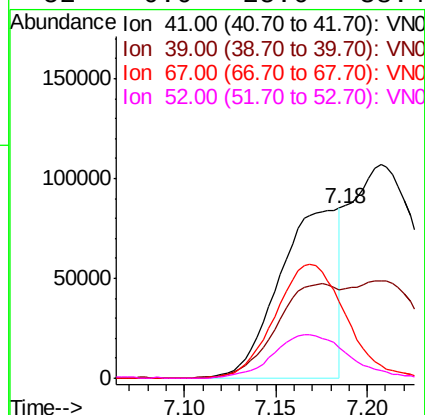
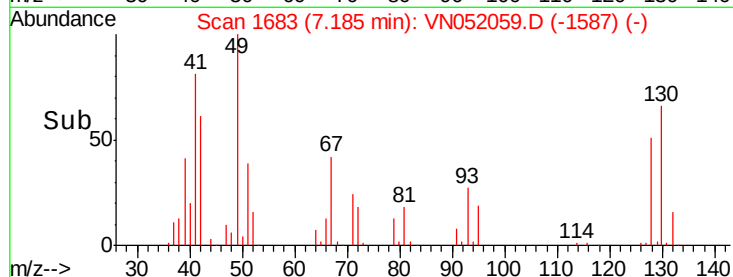
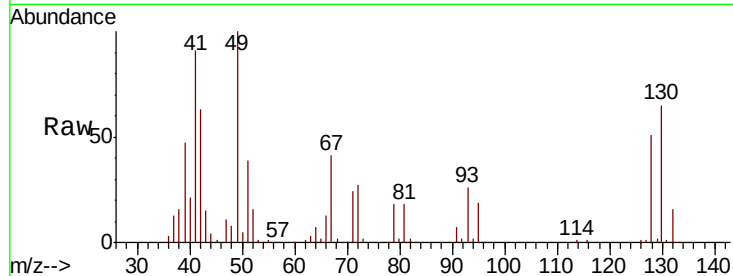
#41
Methacrylonitrile
Concen: 159.366 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	33.2	49.8#
67	0.0	63.5	95.3#
52	0.0	25.6	38.4#

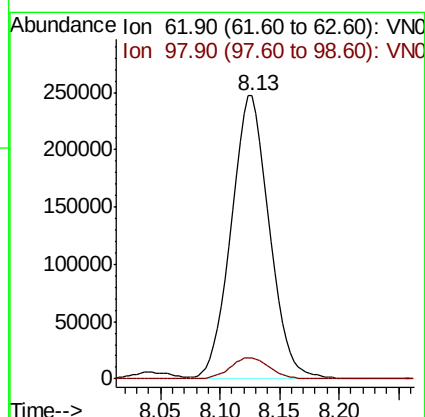
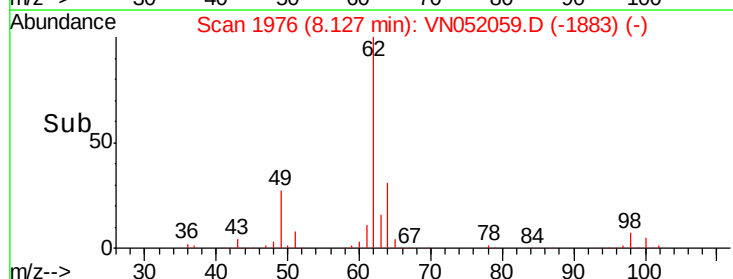
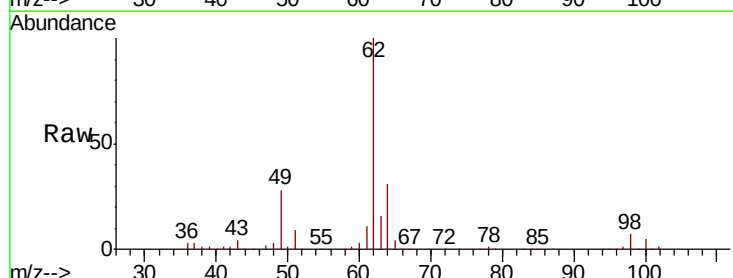
Manual Integrations
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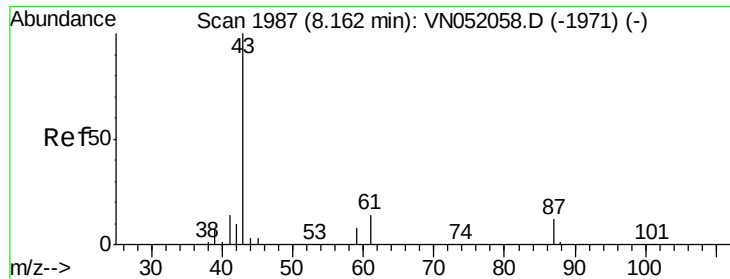
MMDadoda
11/1/2018 11:48:01 AM



#42
1,2-Dichloroethane
Concen: 91.272 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.2





#43

Isopropyl Acetate

Concen: 104.343 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

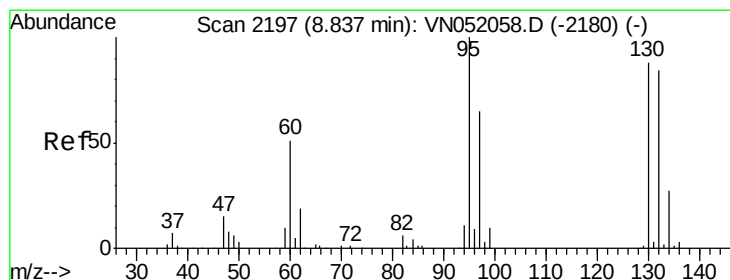
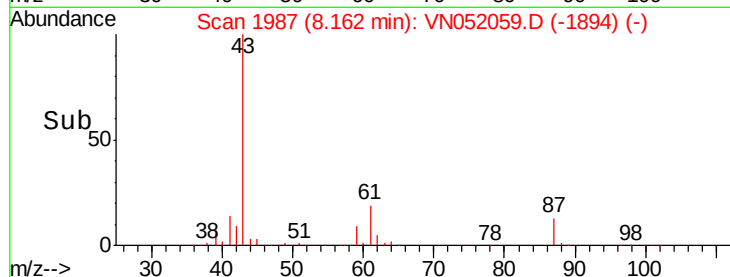
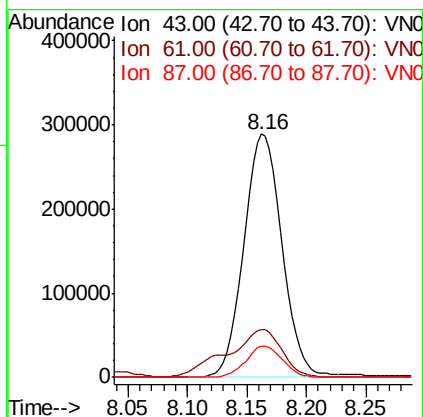
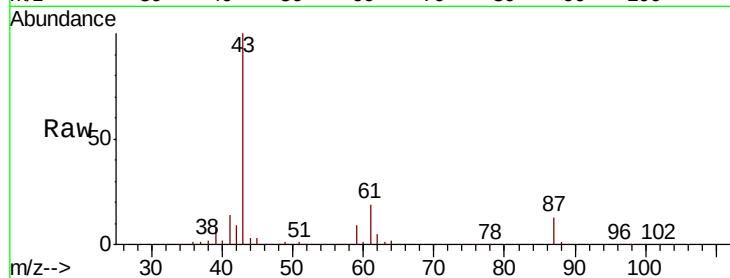
ClientSampled :

VSTDIC100

Tot Ion:	43	Resp:	640102
Ion	Ratio	Lower	Upper
43	100		
61	20.6	15.4	23.0
87	12.3	9.8	14.8

Manual Integrations
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11/1/2018 11:48:01 AM



#44

Trichloroethene

Concen: 110.079 ug/l

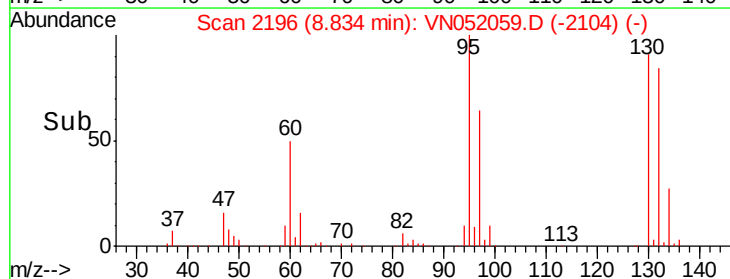
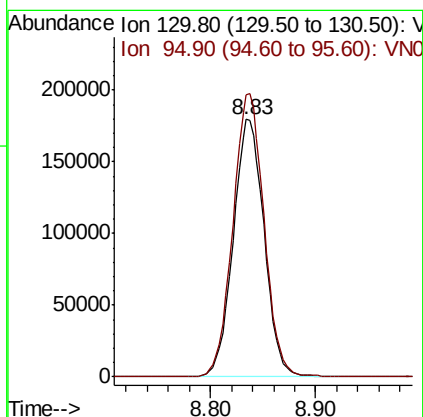
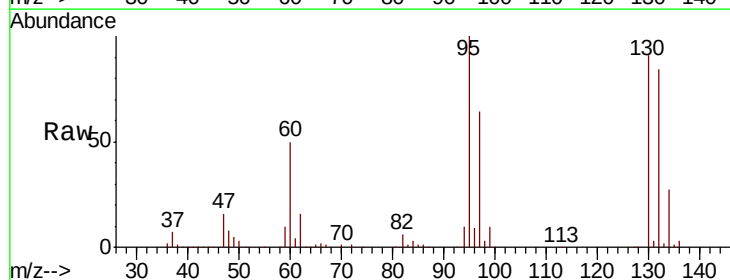
RT: 8.83 min Scan# 2196

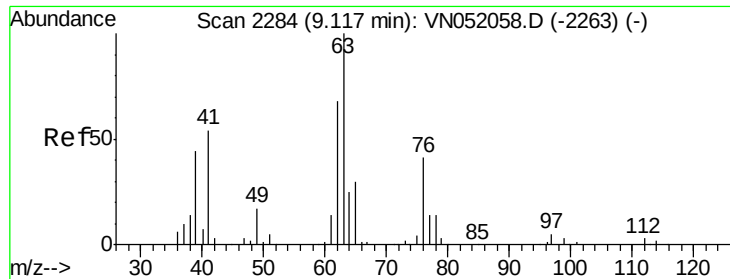
Delta R.T. -0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Tgt Ion:	130	Resp:	364340
Ion	Ratio	Lower	Upper
130	100		
95	109.5	0.0	228.4





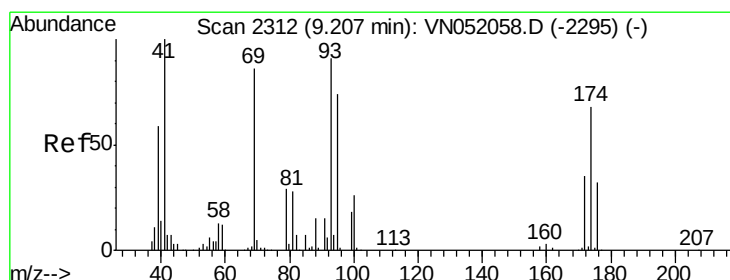
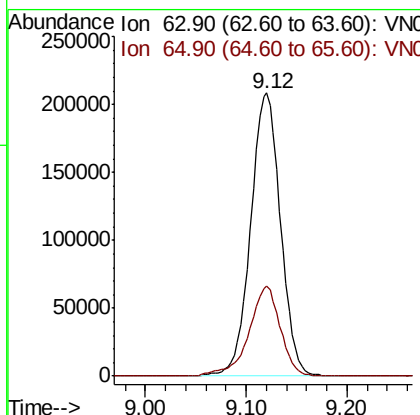
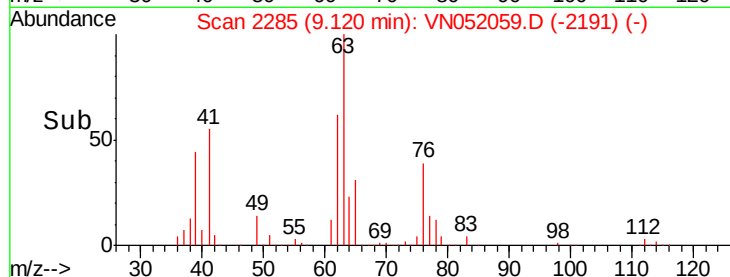
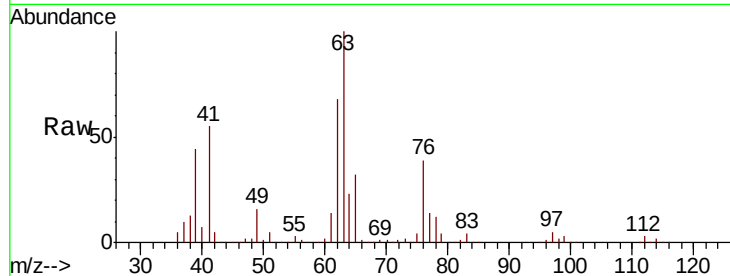
#45
 1,2-Dichloropropane
 Concen: 93.620 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 425928
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.5 36.7

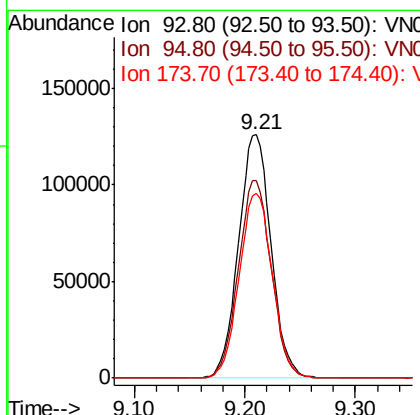
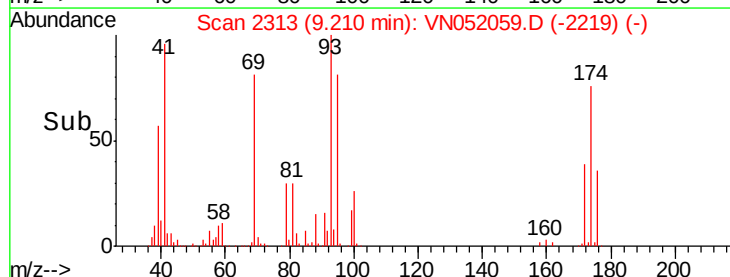
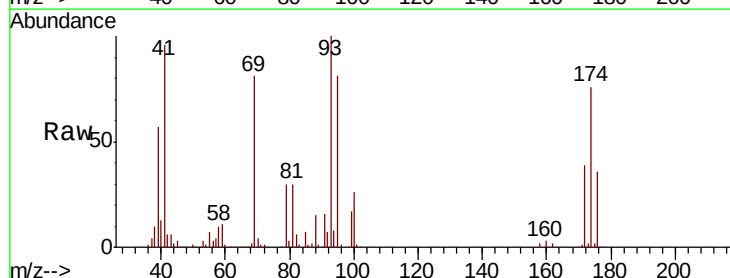
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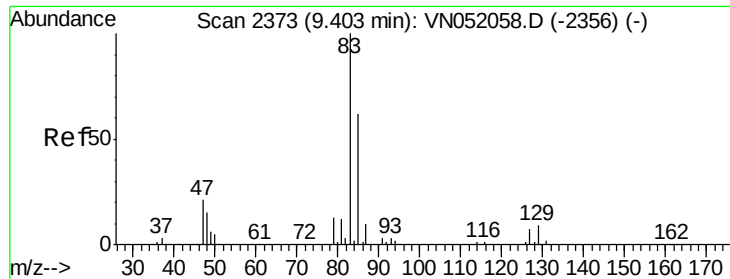
MMDadoda
 11/1/2018 11:48:01 AM



#46
 Dibromomethane
 Concen: 111.143 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion: 93 Resp: 258022
 Ion Ratio Lower Upper
 93 100
 95 81.9 67.2 100.8
 174 77.3 59.7 89.5





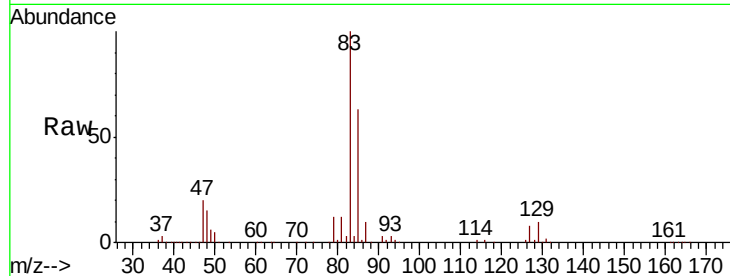
#47
Bromodichloromethane
Concen: 112.723 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

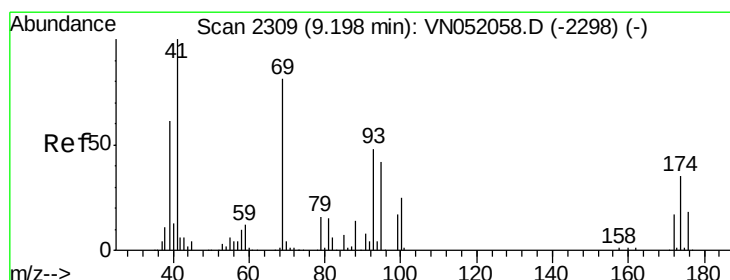
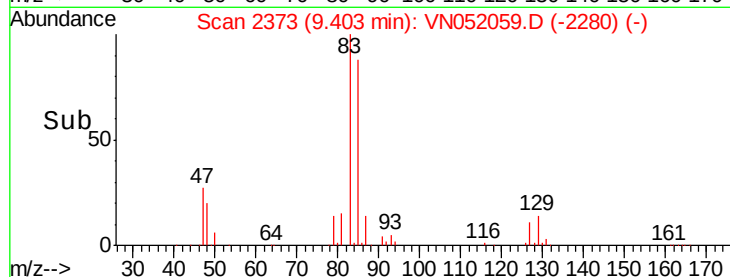
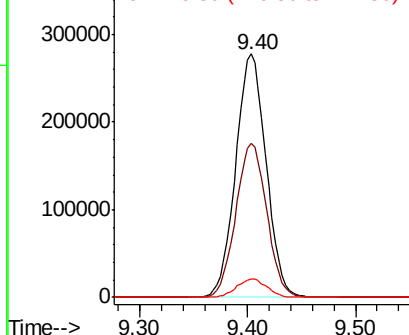
Tot Ion	Ratio	Resp	Lower	Upper
83	100	546318		
85	63.3	49.4	74.2	
127	7.7	5.8	8.8	

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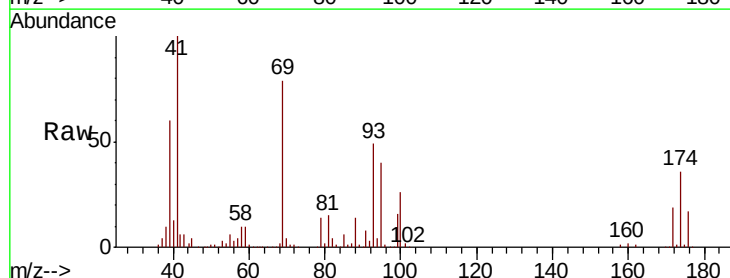


Abundance Ion 82.90 (82.60 to 83.60): VN052059.D (-2280) (-)
Ion 84.90 (84.60 to 85.60): VN052059.D (-2280) (-)
Ion 126.80 (126.50 to 127.50): VN052059.D (-2280) (-)

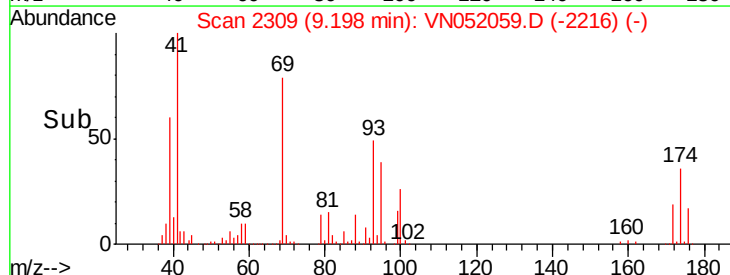
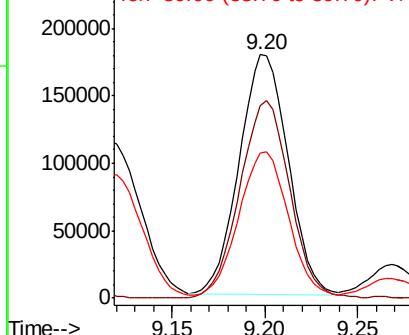


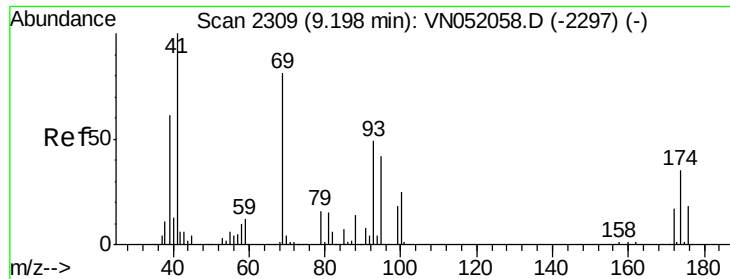
#48
Methyl methacrylate
Concen: 105.112 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	325918		
69	84.3	67.1	100.7	
39	62.0	50.5	75.7	



Abundance Ion 41.00 (40.70 to 41.70): VN052059.D (-2216) (-)
Ion 69.00 (68.70 to 69.70): VN052059.D (-2216) (-)
Ion 39.00 (38.70 to 39.70): VN052059.D (-2216) (-)





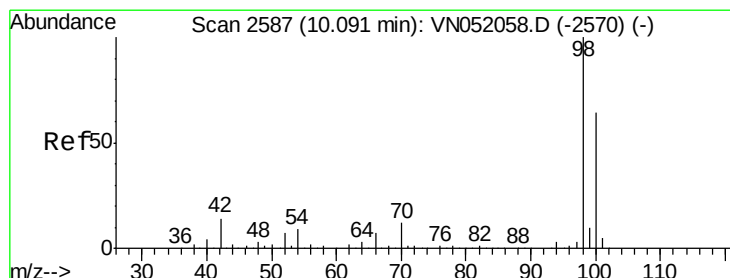
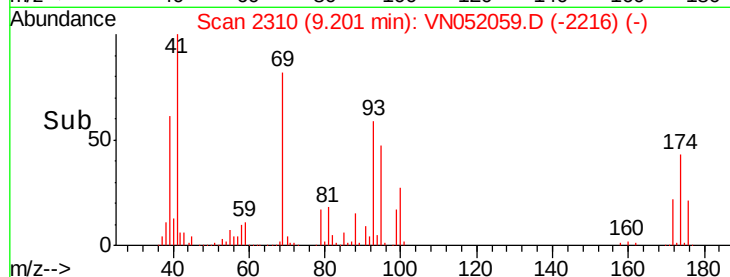
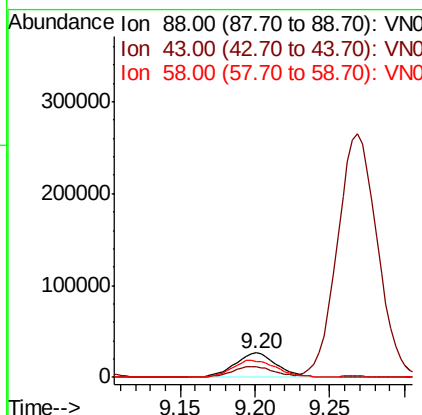
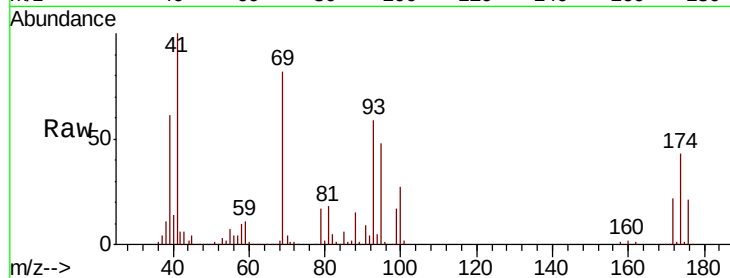
#49
1,4-Dioxane
Concen: 3391.873 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.2	34.1	51.1
58	73.5	62.8	94.2

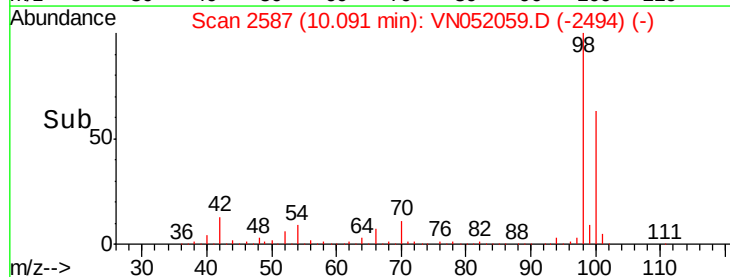
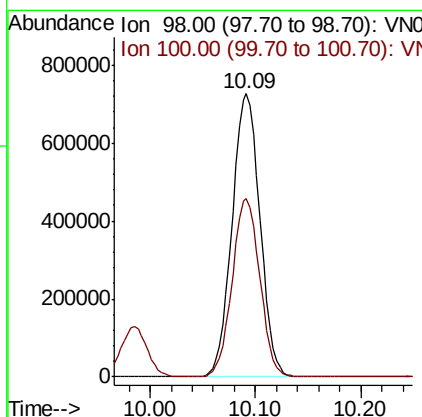
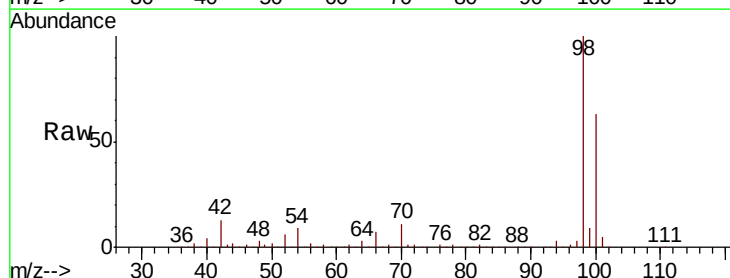
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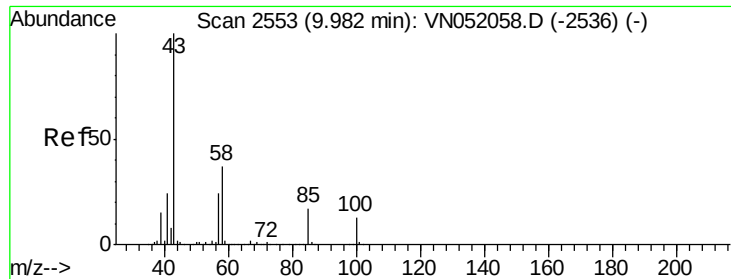
MMDadoda
11/1/2018 11:48:01 AM



#50
Toluene-d8
Concen: 3391.873 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.3	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 525.740 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 1748396

Ion Ratio Lower Upper

43 100

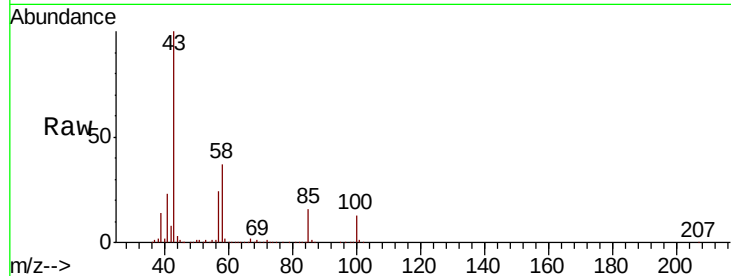
58 37.1 29.7 44.5

Manual Integrations

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MMDadoda

11/1/2018 11:48:01 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2536) (-)

9.98

1000000

800000

600000

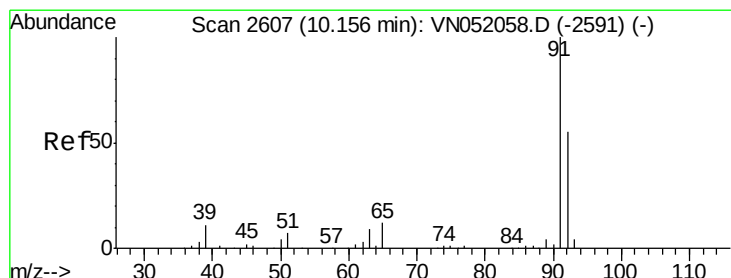
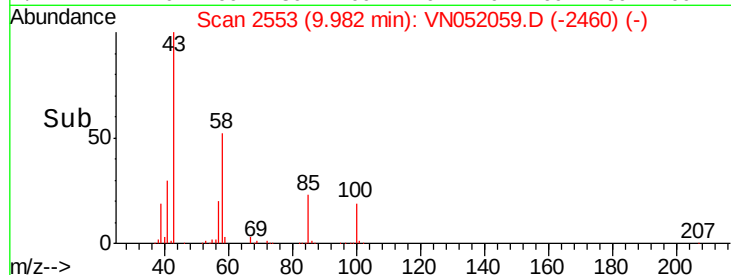
400000

200000

0

9.90 10.00 10.10

Time-->



#52

Toluene

Concen: 109.434 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052059.D

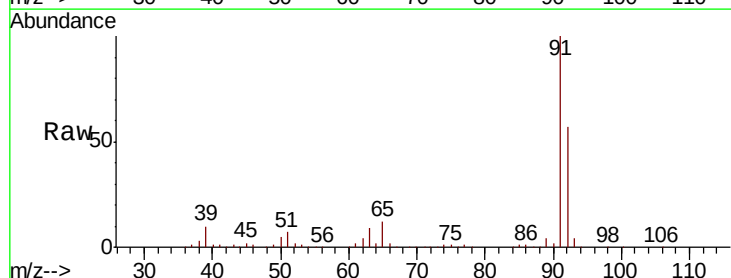
Acq: 30 Oct 2018 11:12

Tgt Ion: 92 Resp: 987850

Ion Ratio Lower Upper

92 100

91 176.5 143.9 215.9



Abundance Ion 92.00 (91.70 to 92.70): VN052058.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052058.D (-2591) (-)

10.16

1000000

800000

600000

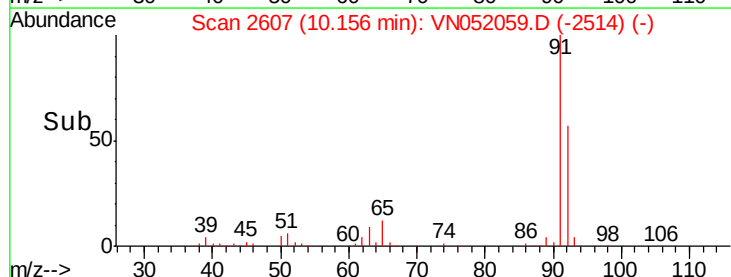
400000

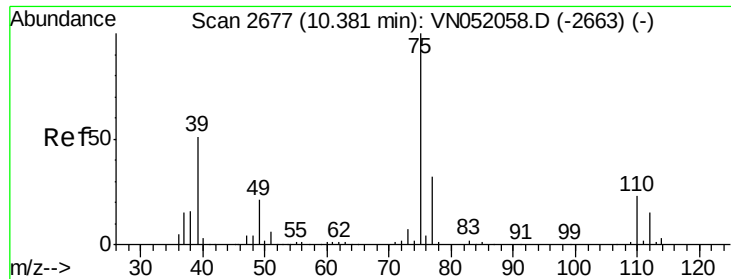
200000

0

10.10 10.20

Time-->





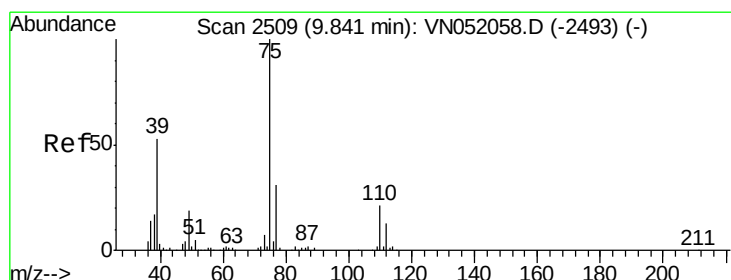
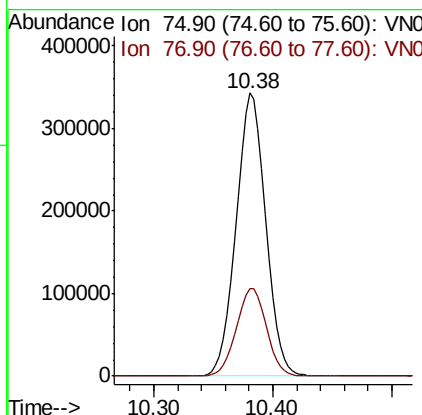
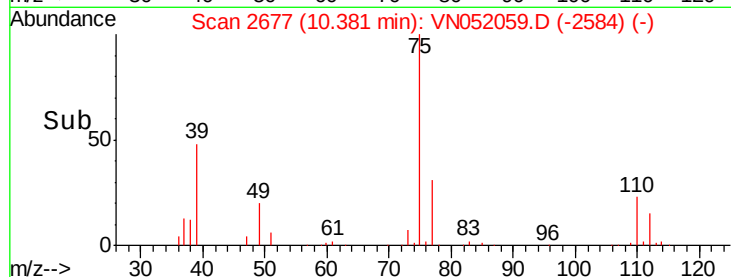
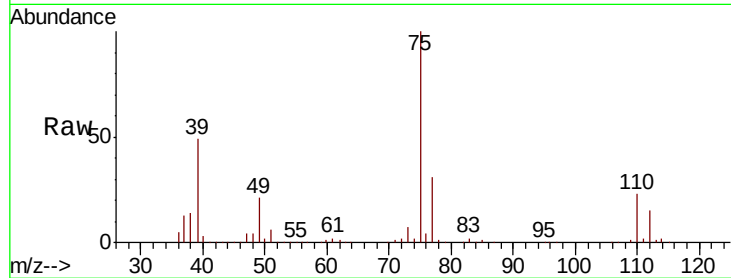
#53
 t-1,3-Dichloropropene
 Concen: 113.896 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion: 75 Resp: 591036
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.6 38.4

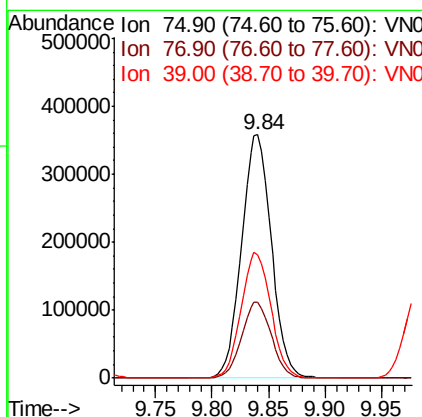
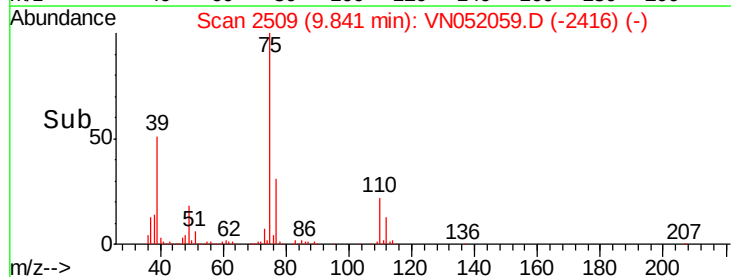
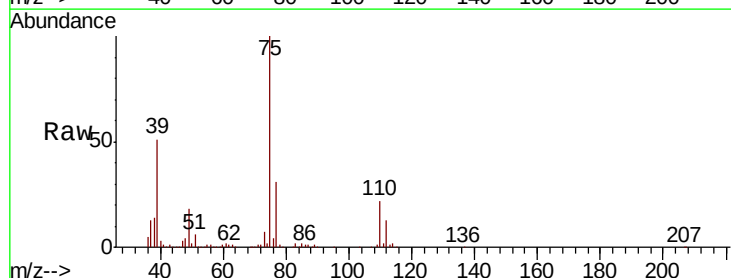
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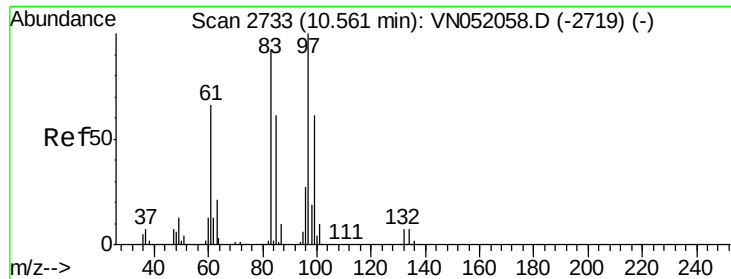
MMDadoda
 11/1/2018 11:48:01 AM



#54
 cis-1,3-Dichloropropene
 Concen: 117.025 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion: 75 Resp: 658426
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.0 37.4
 39 50.5 42.3 63.5





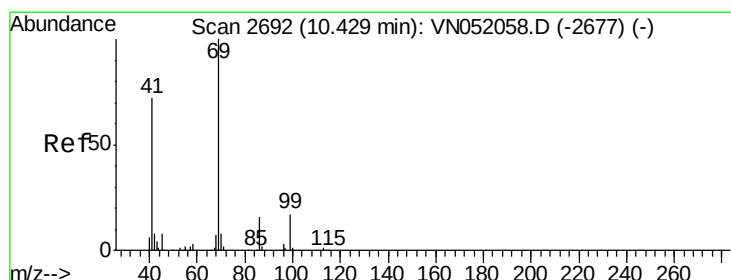
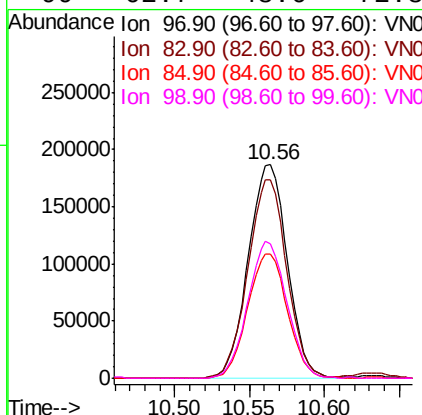
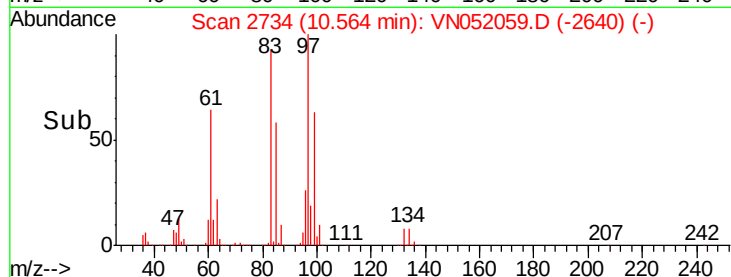
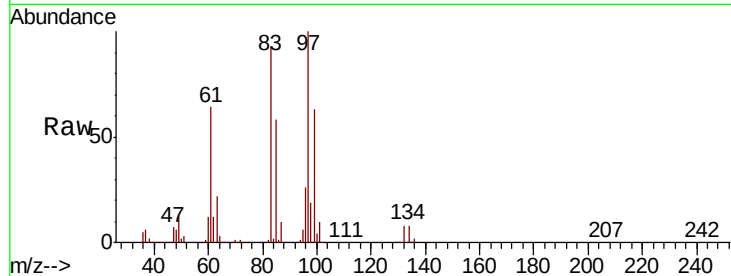
#55
 1,1,2-Trichloroethane
 Concen: 105.198 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	339719
Ion	Ratio	Lower	Upper
97	100		
83	92.7	73.8	110.8
85	58.4	48.4	72.6
99	62.7	48.6	72.8

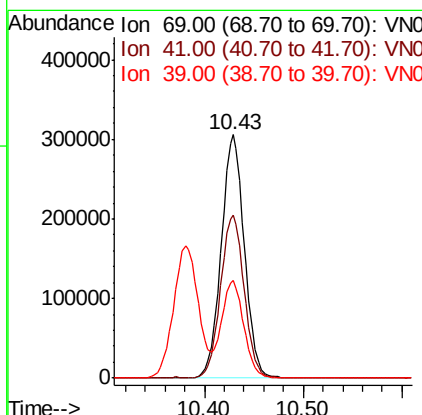
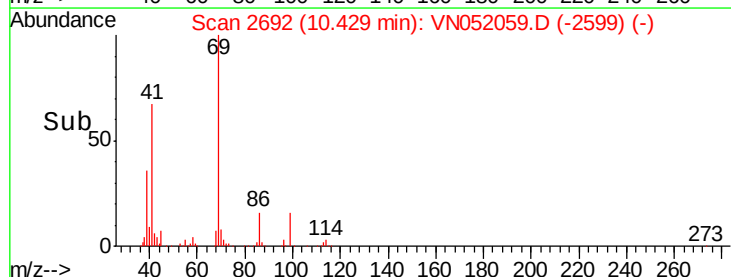
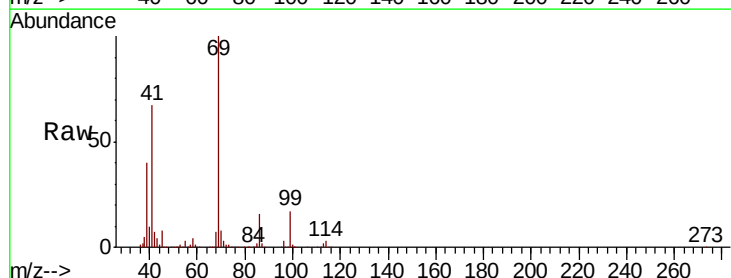
Manual Integrations
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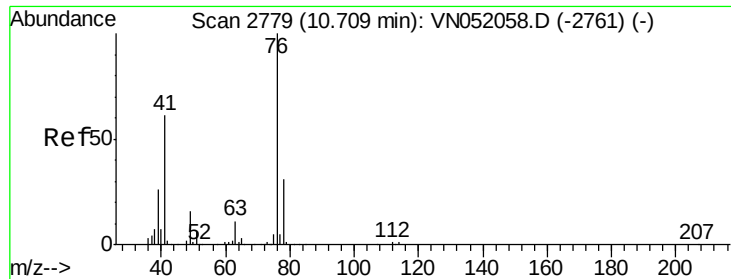
MMDadoda
 11/1/2018 11:48:01 AM



#56
 Ethyl methacrylate
 Concen: 106.588 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion:	69	Resp:	503622
Ion	Ratio	Lower	Upper
69	100		
41	67.5	55.5	83.3
39	38.7	33.0	49.4





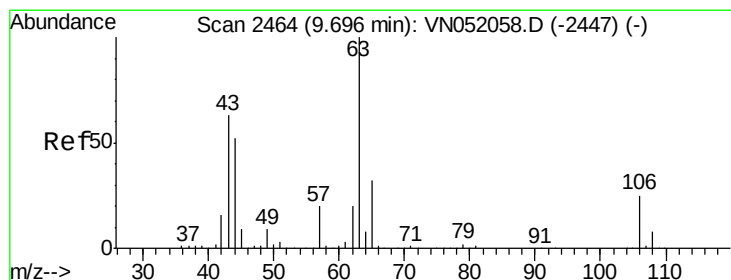
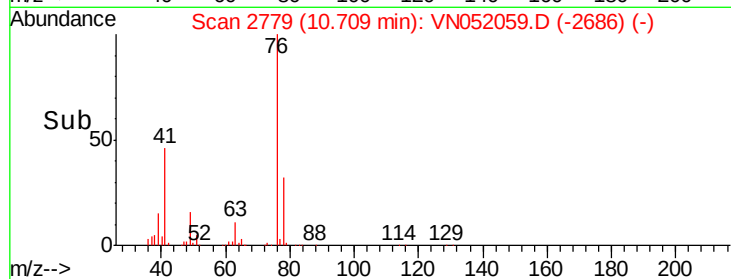
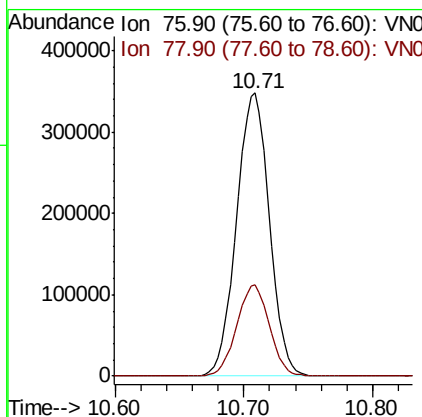
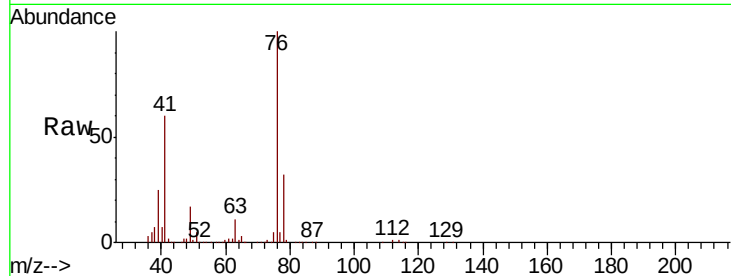
#57
 1,3-Dichloropropane
 Concen: 103.948 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion: 76 Resp: 617568
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.4 38.0

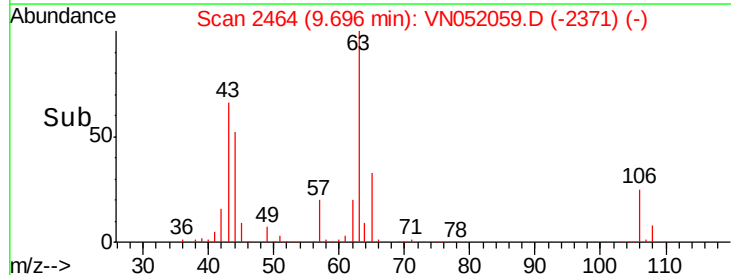
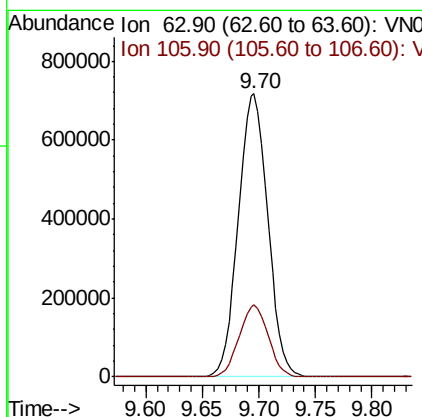
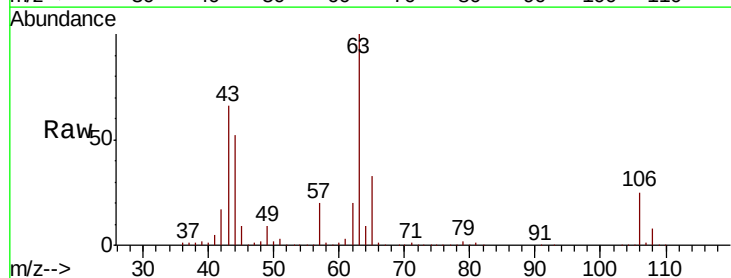
Manual Integrations
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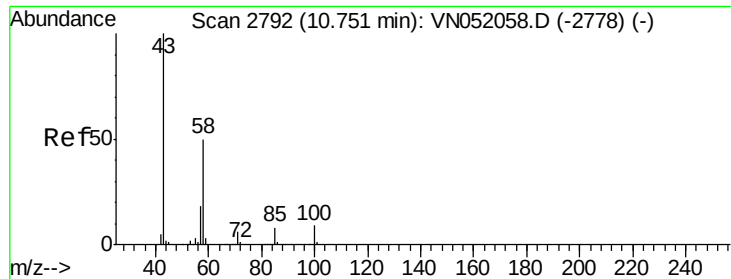
MMDadoda
 11/1/2018 11:48:01 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 540.363 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion: 63 Resp: 1308021
 Ion Ratio Lower Upper
 63 100
 106 25.0 19.4 29.2





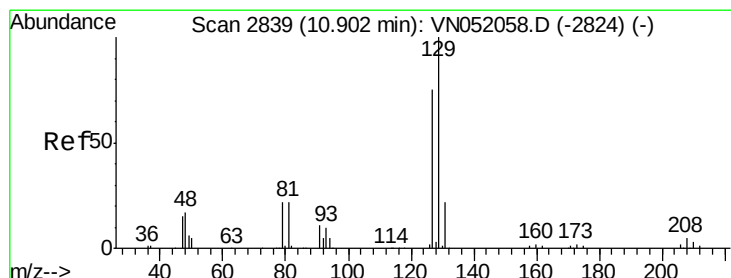
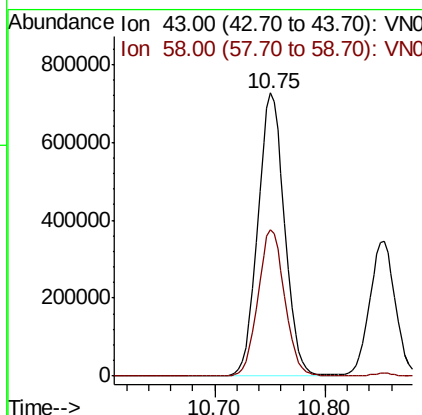
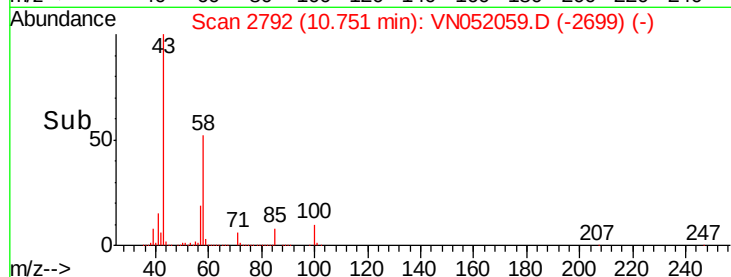
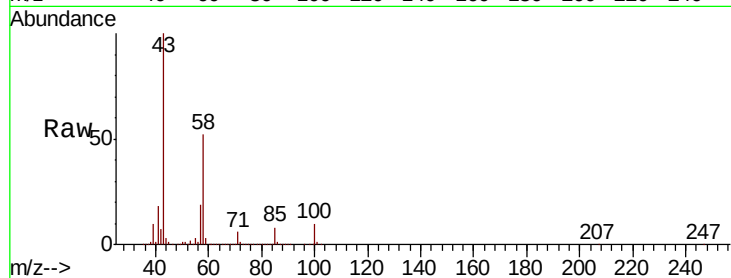
#59
2-Hexanone
Concen: 508.845 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion: 43 Resp: 1215323
Ion Ratio Lower Upper
43 100
58 51.9 25.2 75.6

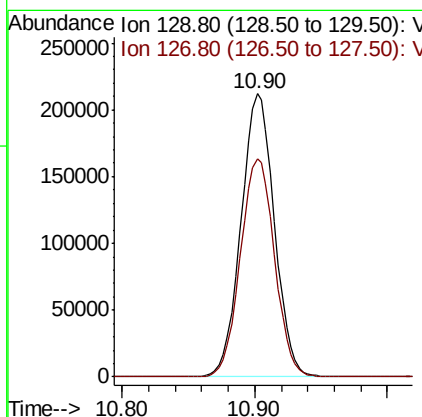
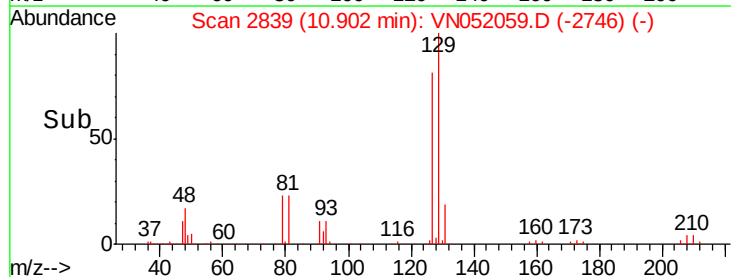
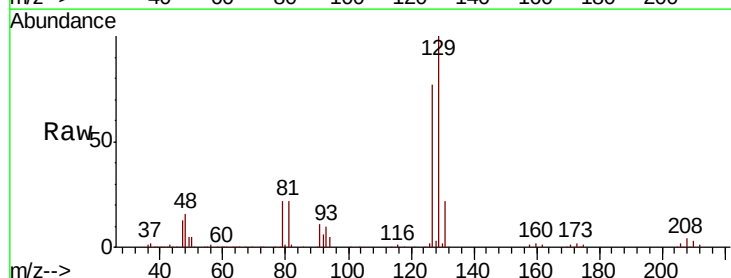
Manual Integrations
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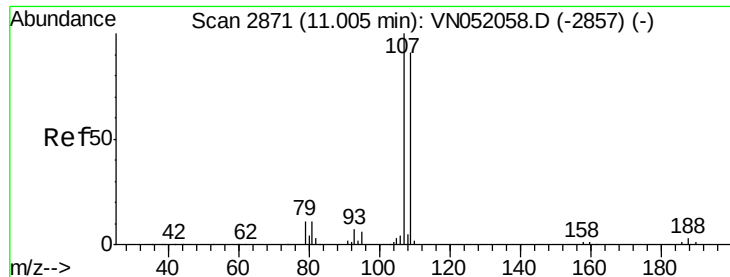
MMDadoda
11/1/2018 11:48:01 AM



#60
Dibromochloromethane
Concen: 120.627 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion: 129 Resp: 370363
Ion Ratio Lower Upper
129 100
127 78.7 38.5 115.5





#61

1,2-Dibromoethane

Concen: 109.996 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 107 Resp: 352559

Ion Ratio Lower Upper

107 100

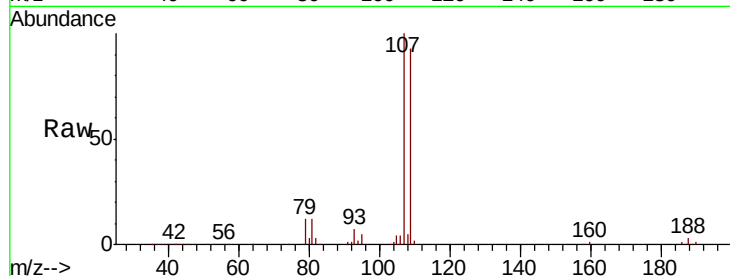
109 93.8 75.1 112.7

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

200000

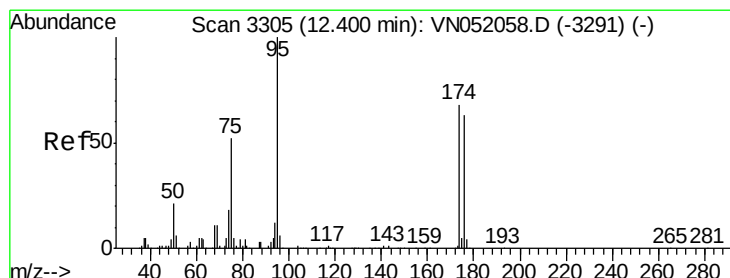
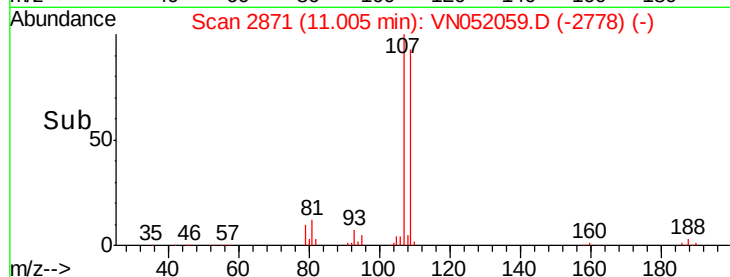
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 109.996 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

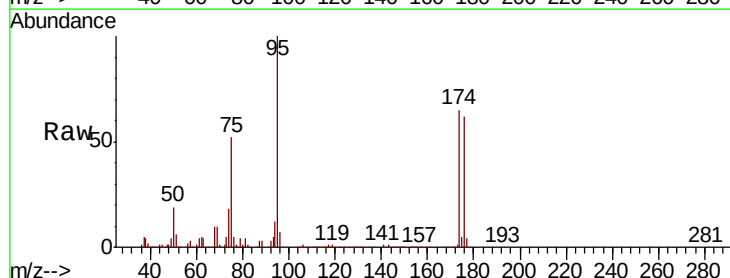
Tgt Ion: 95 Resp: 498536

Ion Ratio Lower Upper

95 100

174 65.5 0.0 131.8

176 62.6 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

400000

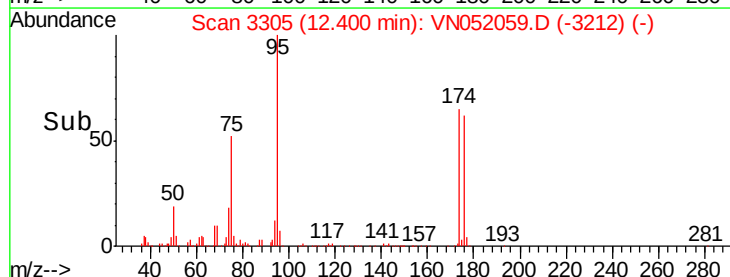
300000

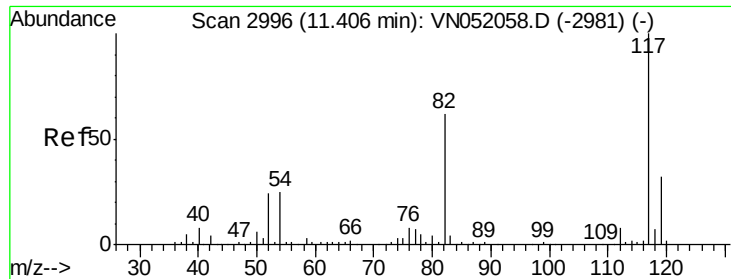
200000

100000

0

Time-->





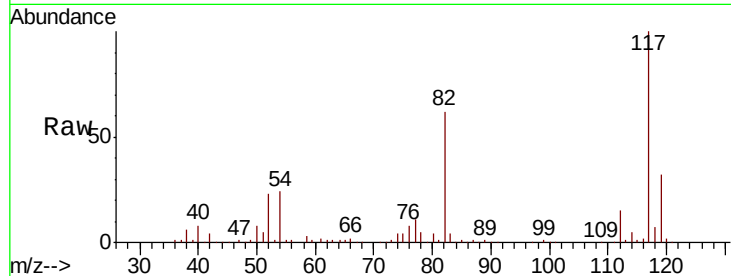
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.8	49.9	74.9
119	31.8	25.7	38.5

Manual Integrations
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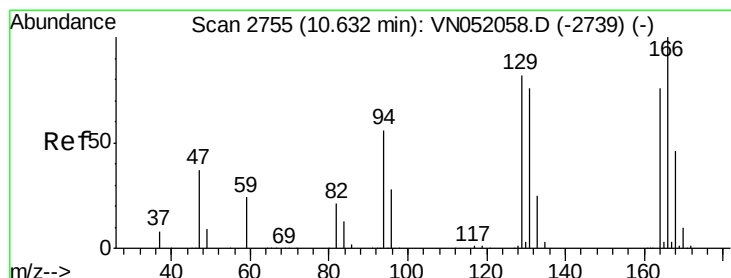
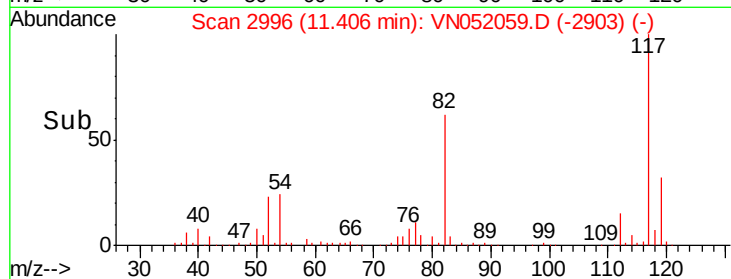
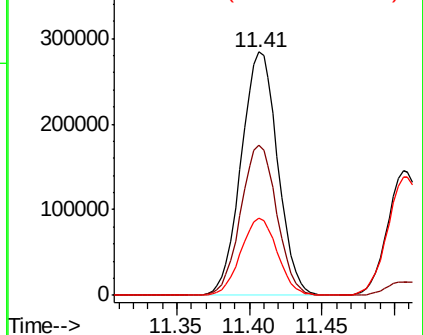


Abundance

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: 103.535 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.0	105.4	158.0
129	106.0	86.1	129.1
131	103.4	80.3	120.5

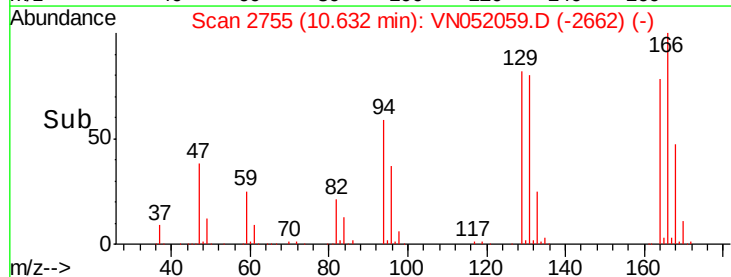
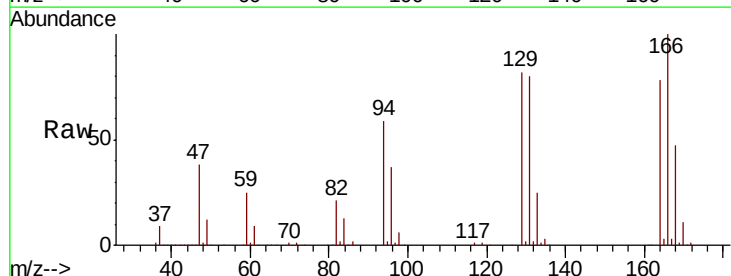
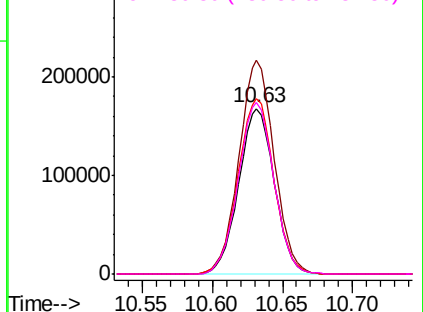
Abundance

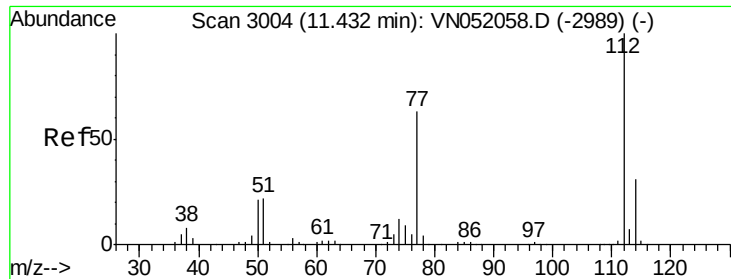
Ion 163.80 (163.50 to 164.50): V

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: 104.166 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:112 Resp: 1063878

Ion Ratio Lower Upper

112 100

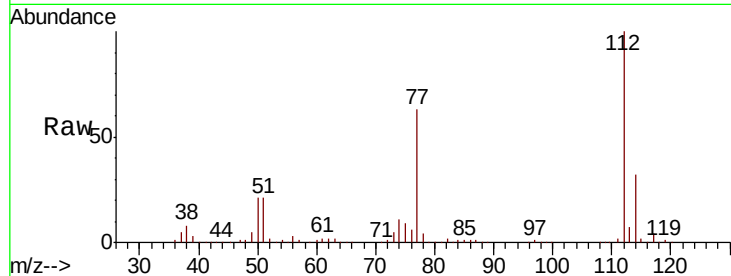
114 31.5 25.1 37.7

Manual Integrations

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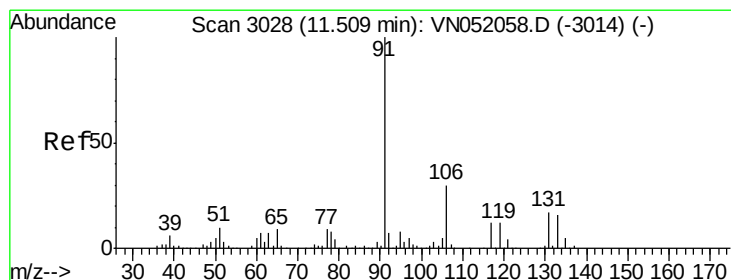
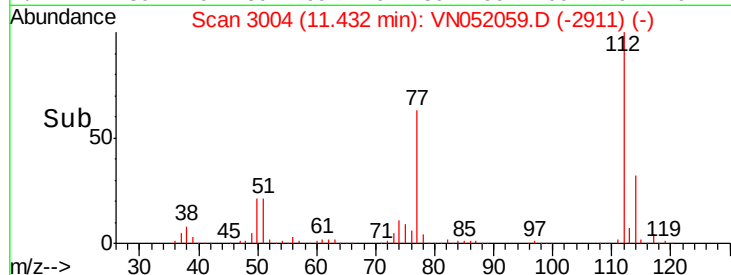
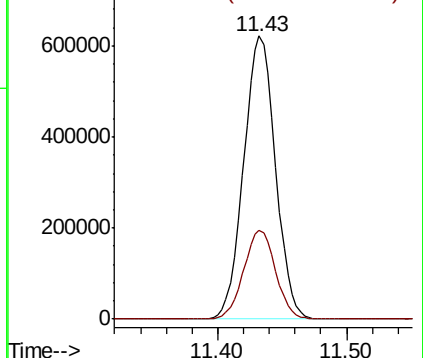
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 113.623 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

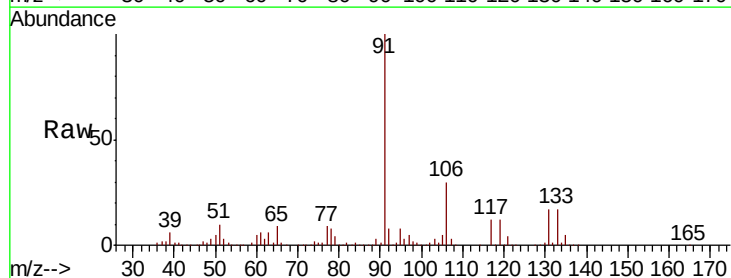
Tgt Ion:131 Resp: 353990

Ion Ratio Lower Upper

131 100

133 94.2 47.6 142.9

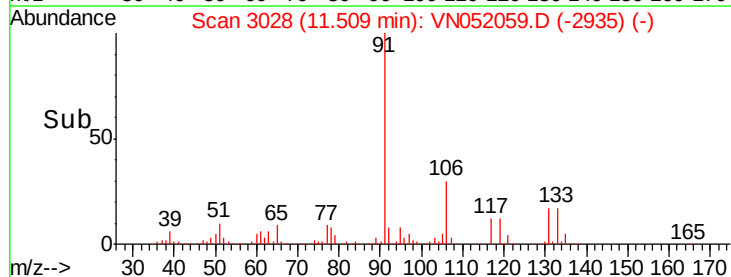
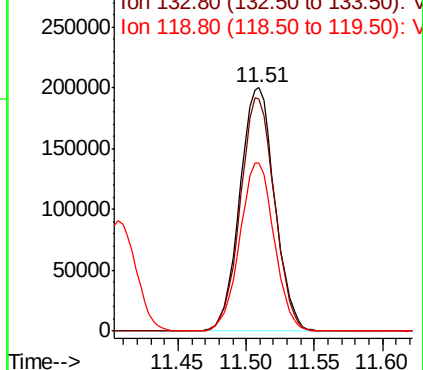
119 68.4 34.4 103.2

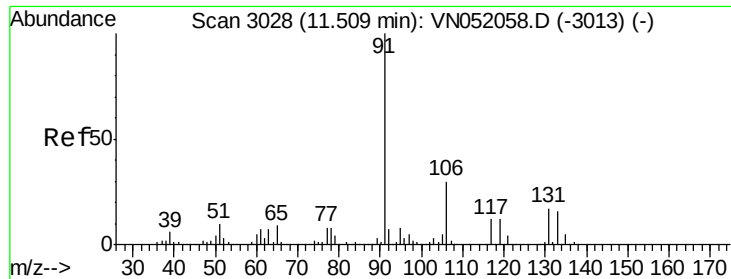


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





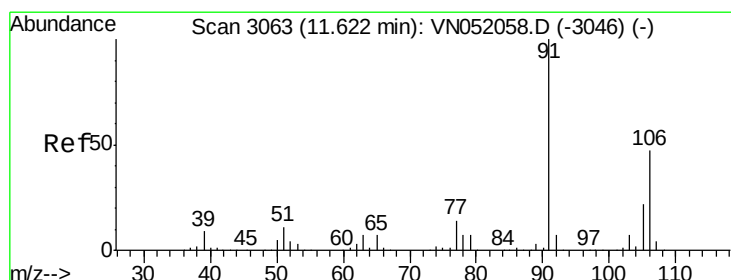
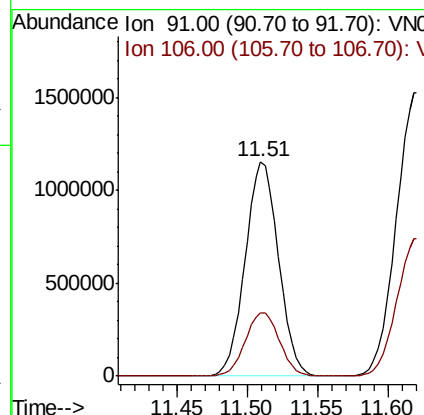
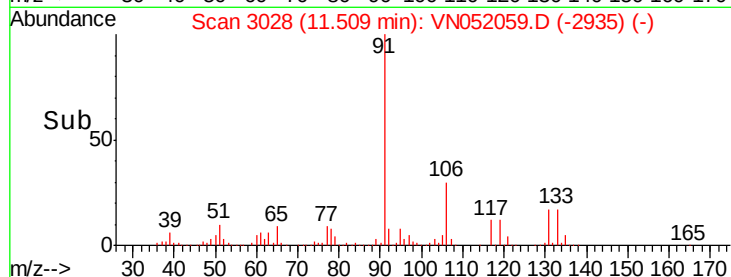
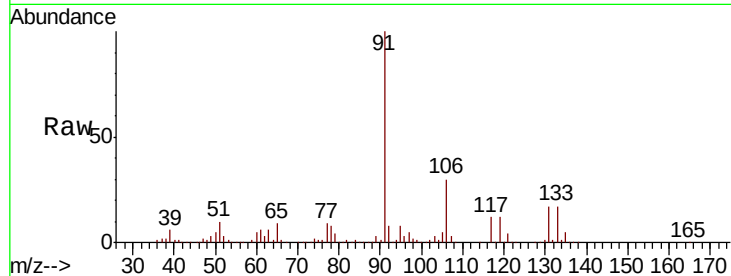
#67
Ethyl Benzene
Concen: 107.025 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 1914733
Ion Ratio Lower Upper
91 100
106 29.8 24.1 36.1

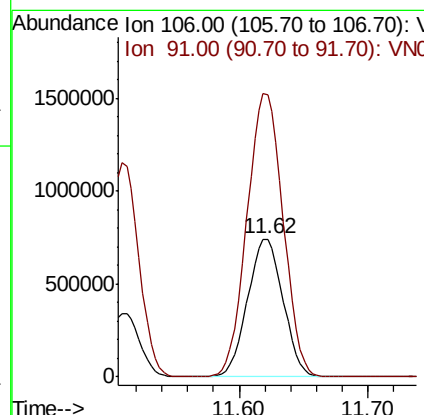
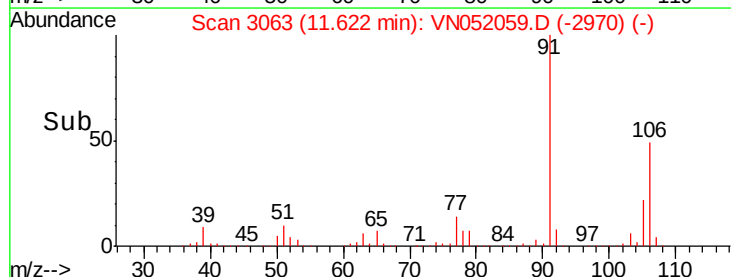
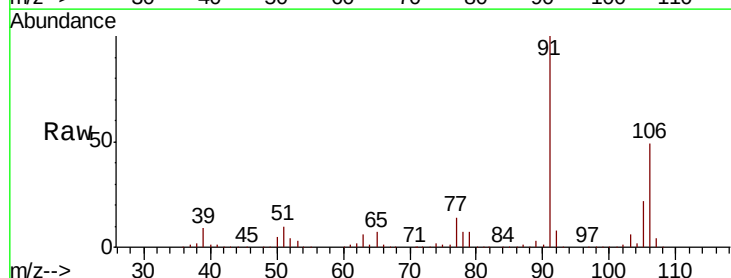
Manual Integrations
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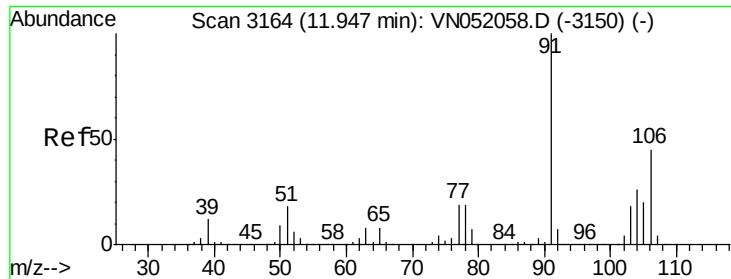
MMDadoda
11/1/2018 11:48:01 AM



#68
m/p-Xylenes
Concen: 228.866 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion: 106 Resp: 1421131
Ion Ratio Lower Upper
106 100
91 209.2 168.7 253.1





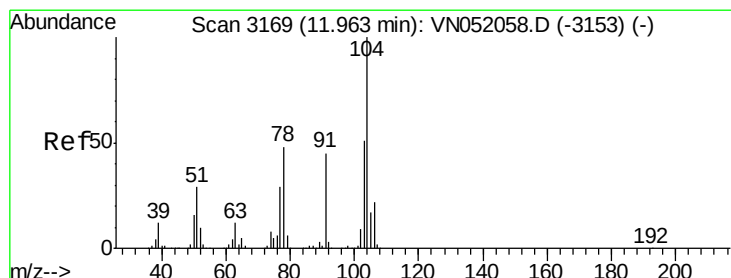
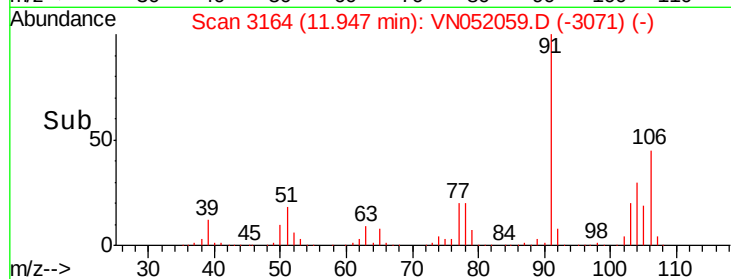
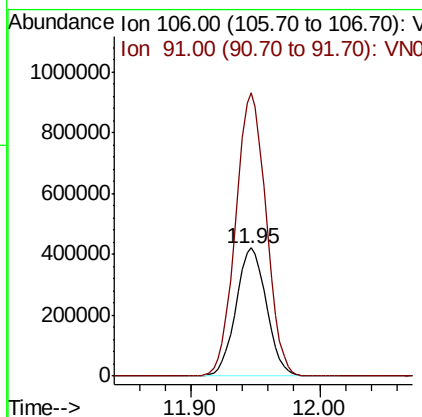
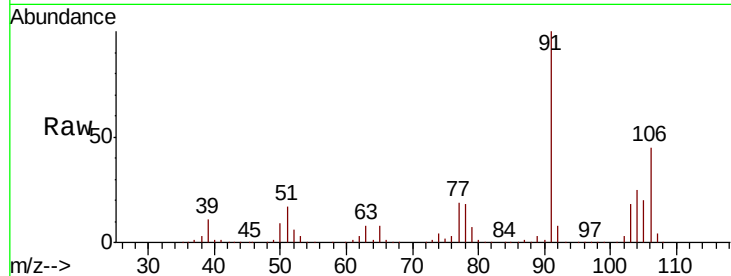
#69
o-Xylene
Concen: 114.277 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 692179
Ion Ratio Lower Upper
106 100
91 221.4 109.6 328.6

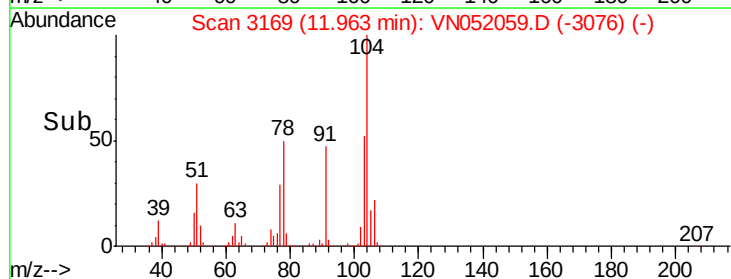
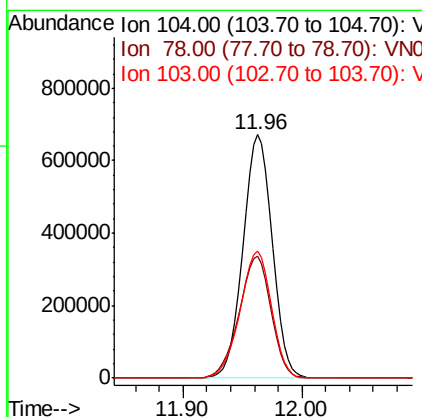
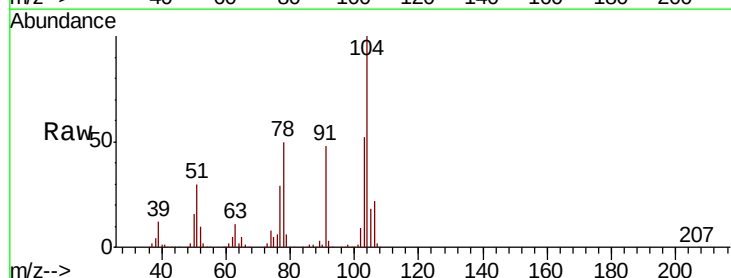
Manual Integrations
APPROVED

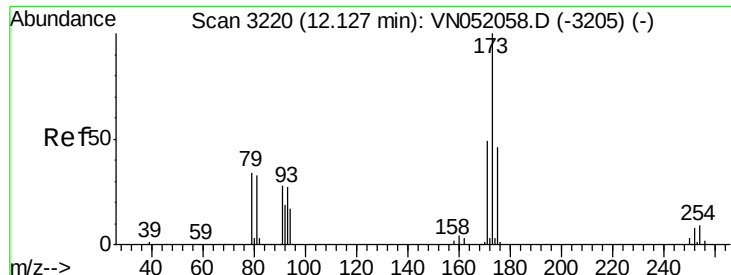
MMDadoda
11/1/2018 11:48:01 AM



#70
Styrene
Concen: 114.382 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion:104 Resp: 1142312
Ion Ratio Lower Upper
104 100
78 54.8 43.0 64.6
103 56.2 45.1 67.7





#71

Bromoform

Concen: 130.696 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion:173 Resp: 216711

Ion Ratio Lower Upper

173 100

175 48.6 23.9 71.7

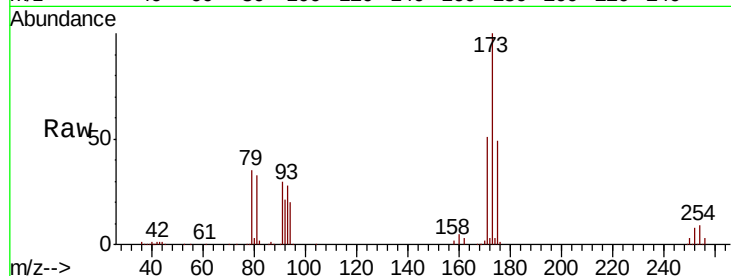
254 0.1 0.0 0.0#

Manual Integrations

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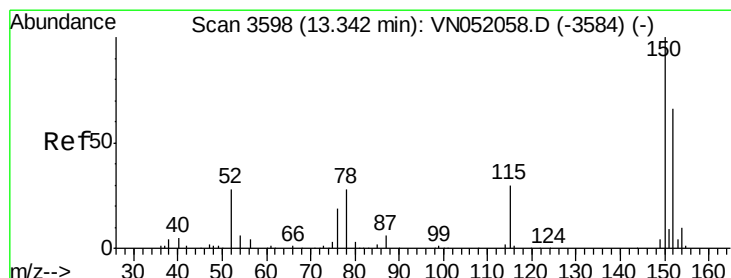
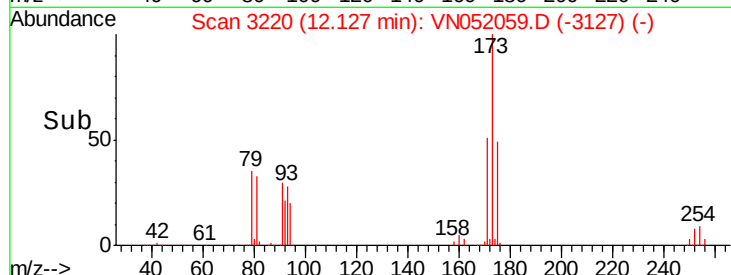
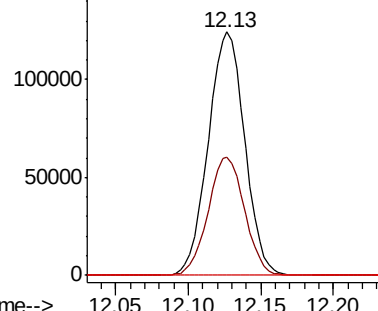
11/1/2018 11:48:01 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

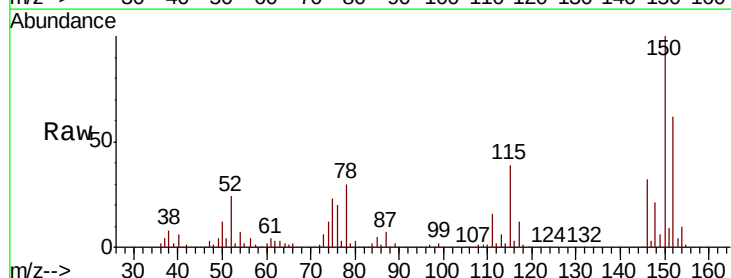
Tgt Ion:152 Resp: 222063

Ion Ratio Lower Upper

152 100

115 65.5 31.6 95.0

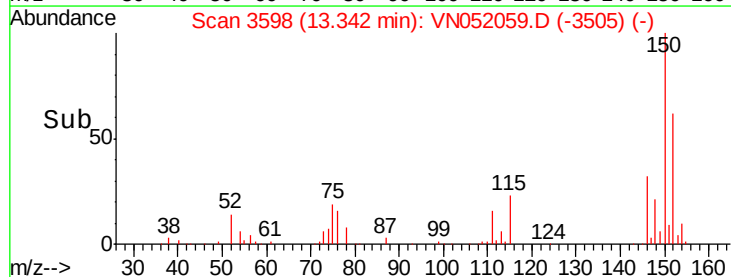
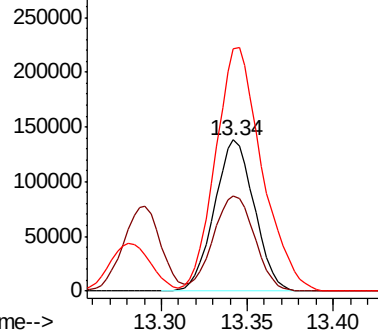
150 187.7 0.0 345.0

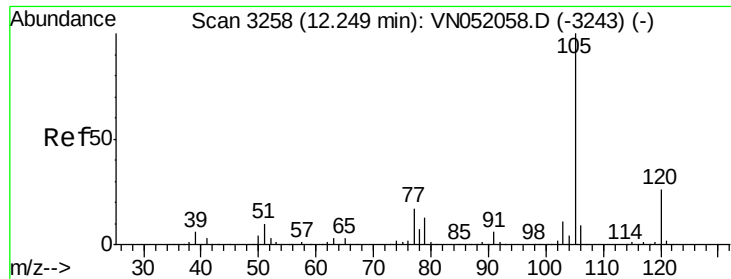


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





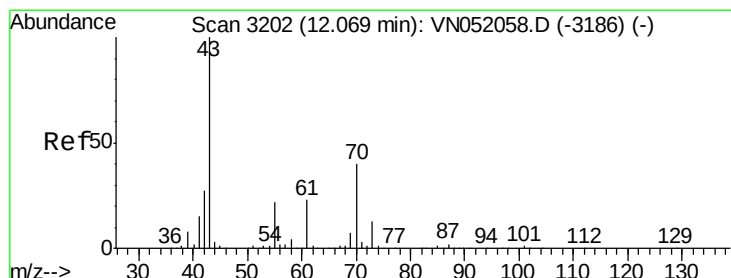
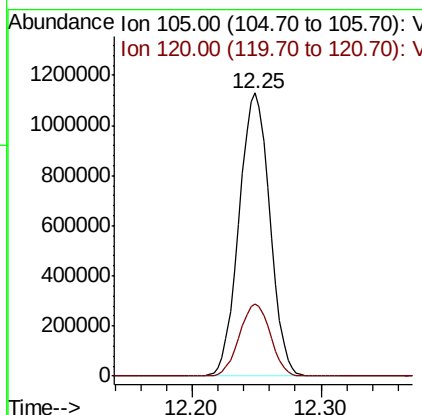
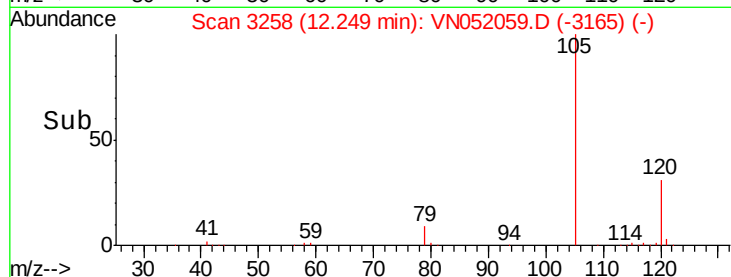
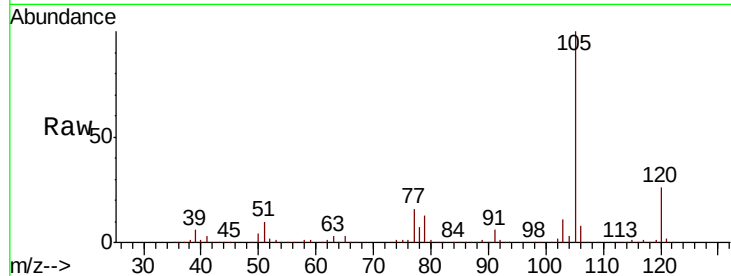
#73
Isopropylbenzene
Concen: 107.204 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:105 Resp: 1875789
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.4

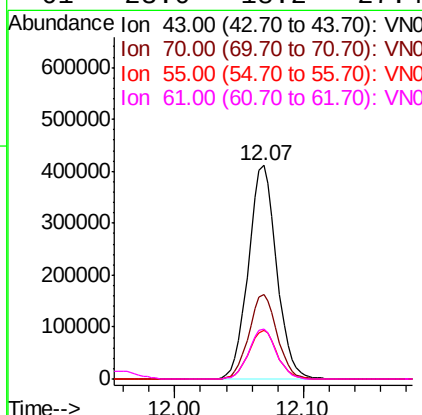
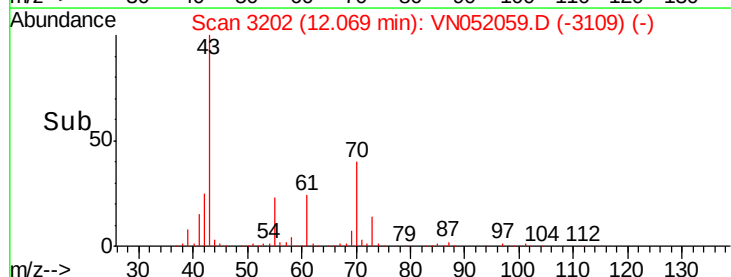
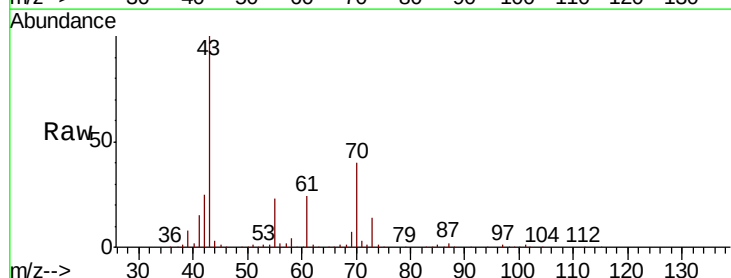
Manual Integrations
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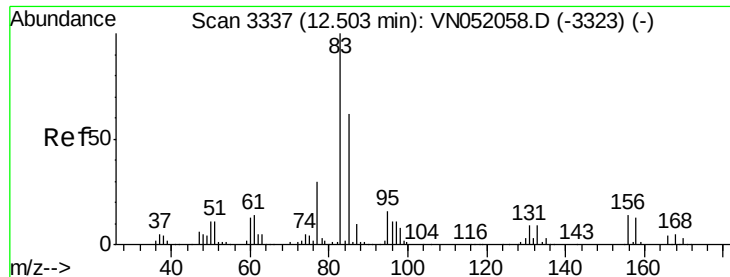
MMDadoda
11/1/2018 11:48:01 AM



#74
N-ethyl acetate
Concen: 94.232 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion: 43 Resp: 626592
Ion Ratio Lower Upper
43 100
70 39.5 31.9 47.9
55 22.9 18.4 27.6
61 23.0 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 98.178 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

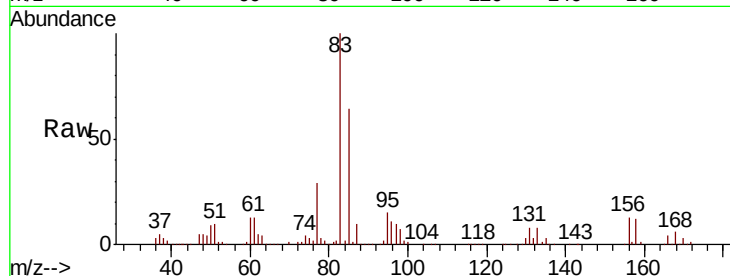
ClientSampled :

VSTDIC100

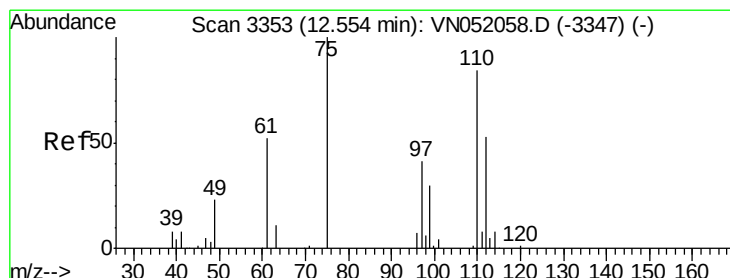
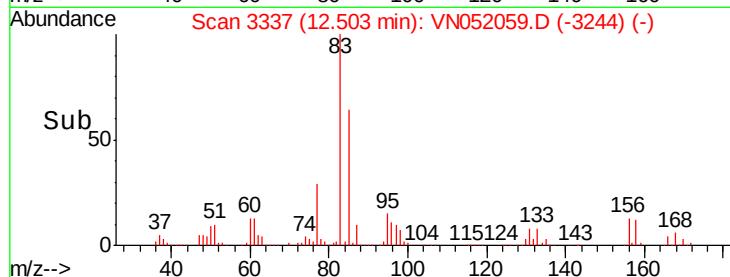
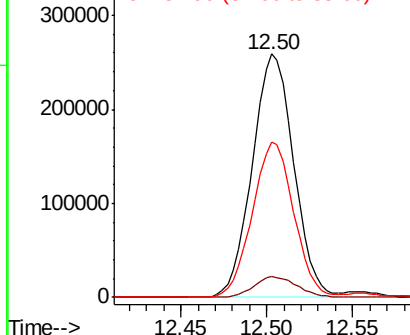
Tot Ion:	83	Resp:	433005
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.5	13.4
85	63.7	31.3	93.9

Manual Integrations
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11/1/2018 11:48:01 AM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 98.297 ug/l m

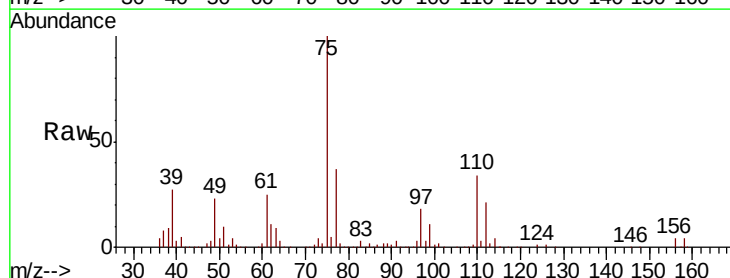
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

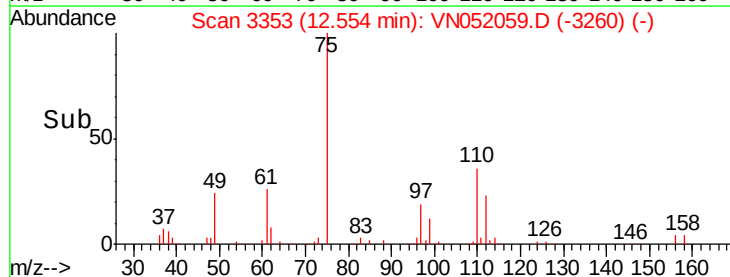
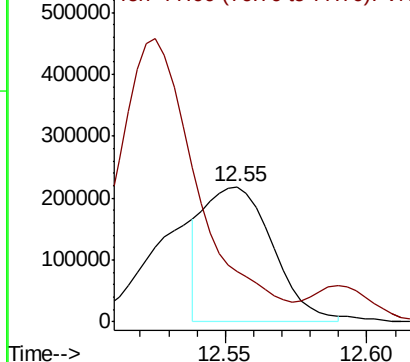
Lab File: VN052059.D

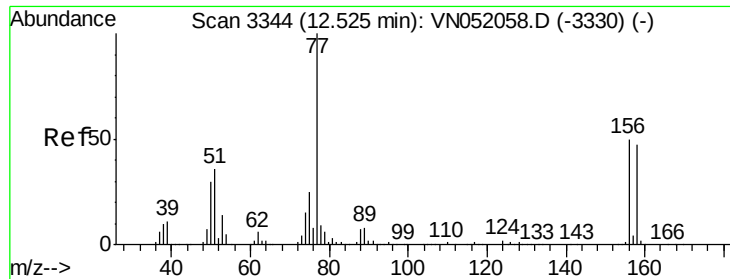
Acq: 30 Oct 2018 11:12

Tgt Ion:	75	Resp:	369592
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





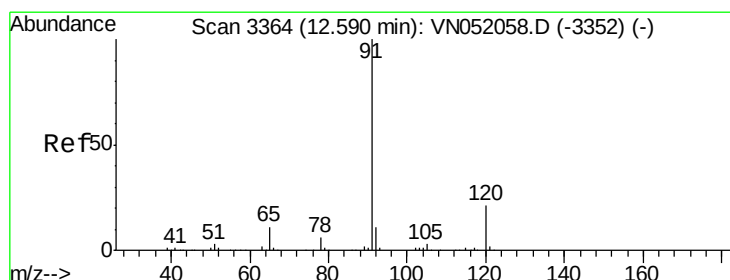
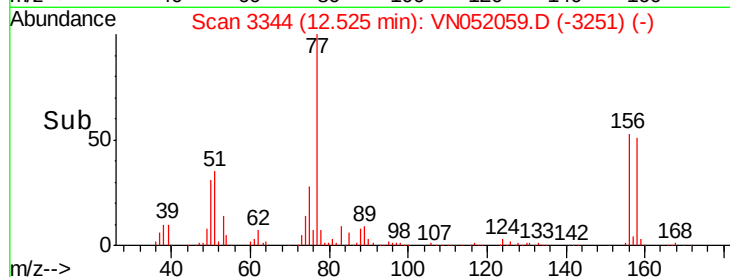
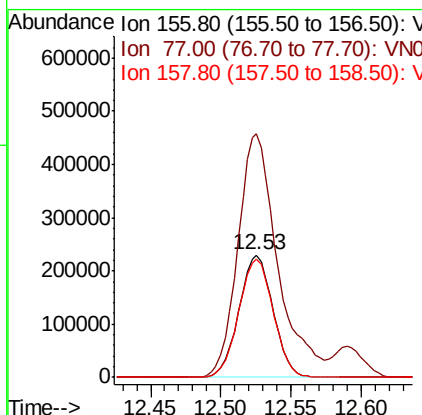
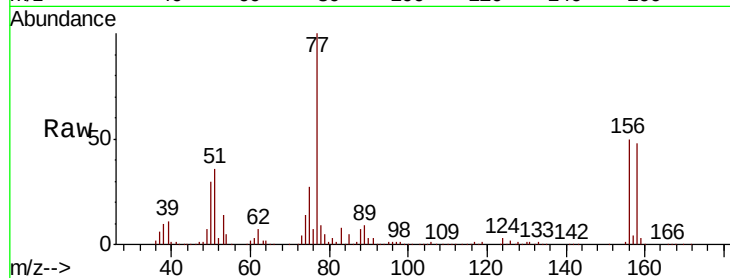
#77
Bromobenzene
Concen: 102.760 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
156	100		
77	231.3	119.6	358.6
158	97.8	47.8	143.4

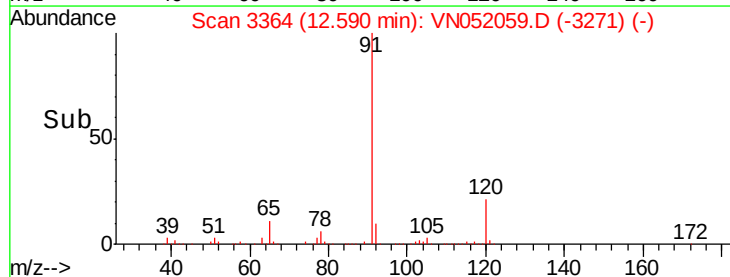
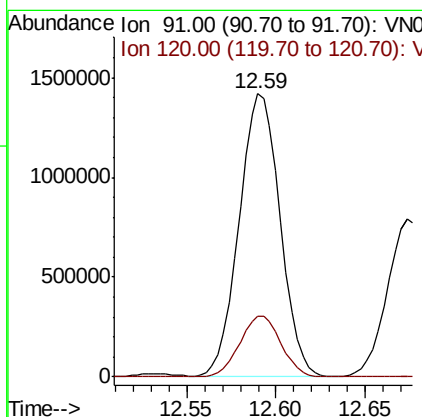
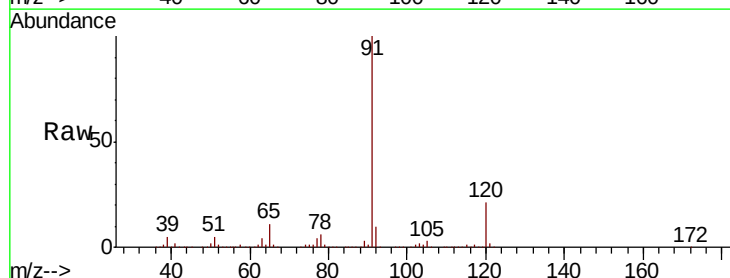
Manual Integrations
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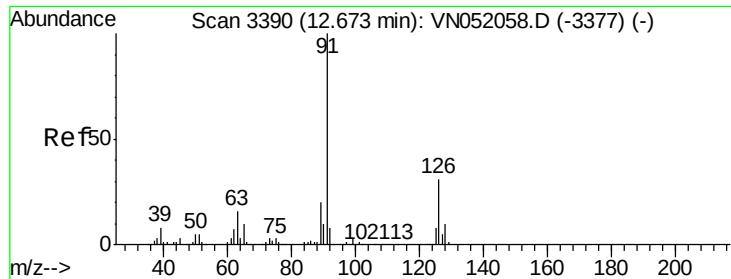
MMDadoda
11/1/2018 11:48:01 AM



#78
n-propylbenzene
Concen: 102.943 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.4





#79

2-Chlorotoluene

Concen: 105.849 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 1307296

Ion Ratio Lower Upper

91 100

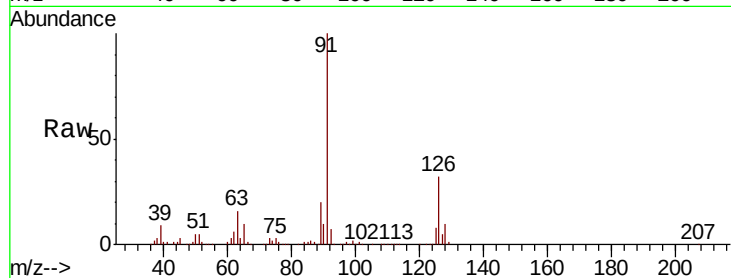
126 32.2 15.9 47.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052059.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN052059.D (-3377) (-)

1500000

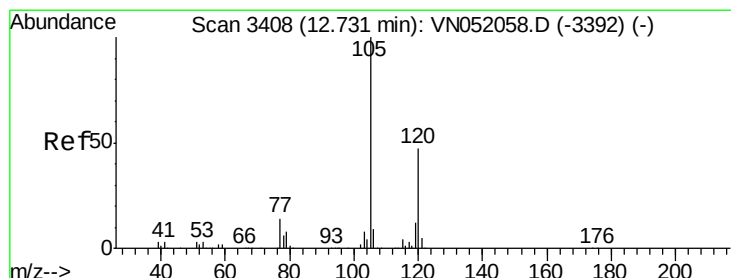
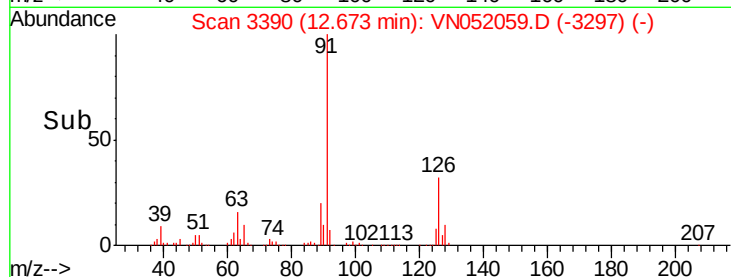
1000000

500000

0

12.67

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 105.313 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052059.D

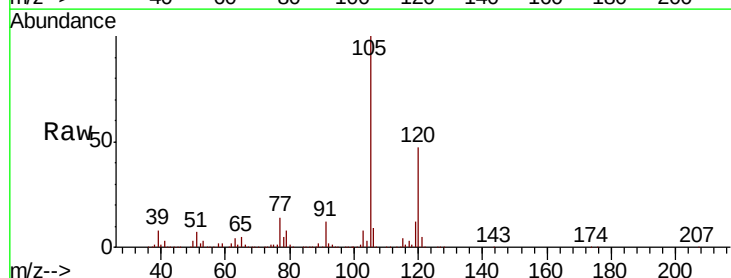
Acq: 30 Oct 2018 11:12

Tgt Ion:105 Resp: 1531247

Ion Ratio Lower Upper

105 100

120 46.9 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN052059.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052059.D (-3392) (-)

1000000

800000

600000

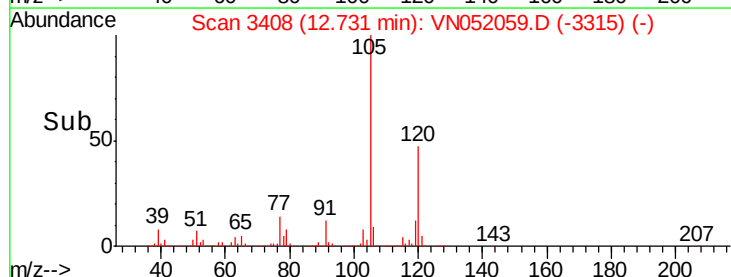
400000

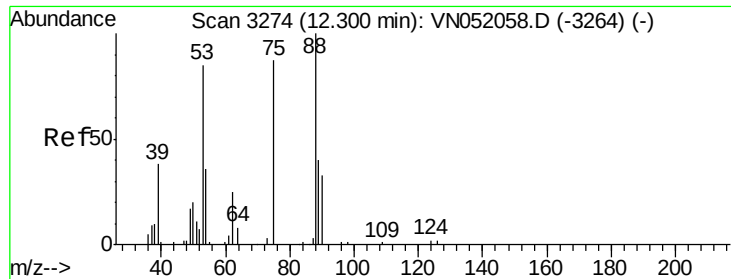
200000

0

12.73

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 121.849 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

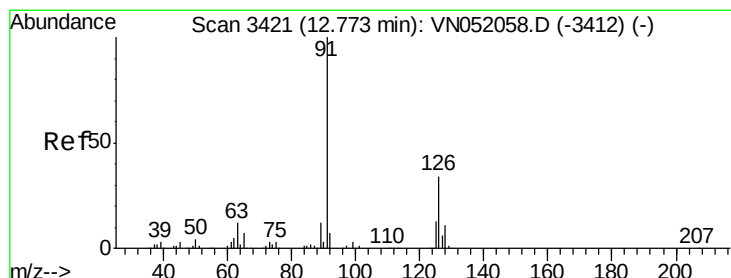
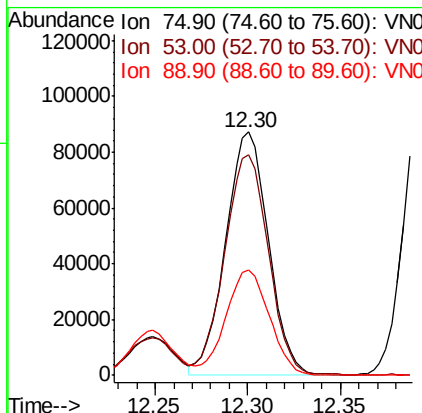
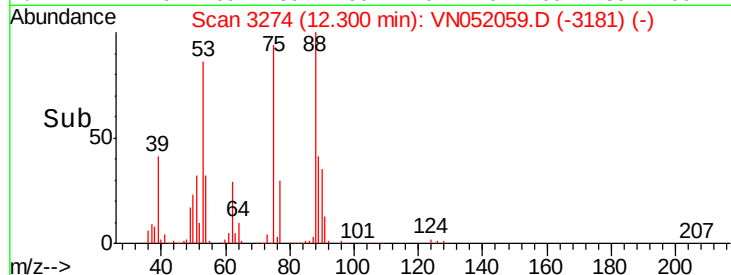
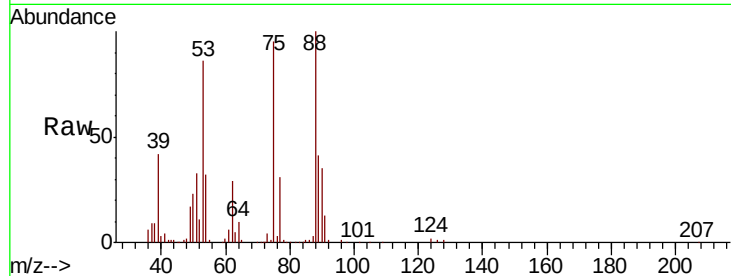
ClientSampleId :

VSTDIC100

Tot Ion:	75	Resp:	140400
Ion	Ratio	Lower	Upper
75	100		
53	92.3	81.8	122.6
89	43.9	36.6	54.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 109.194 ug/l

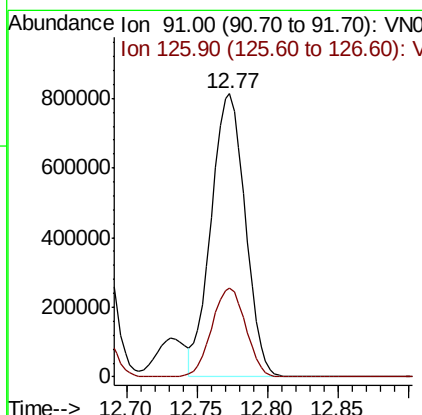
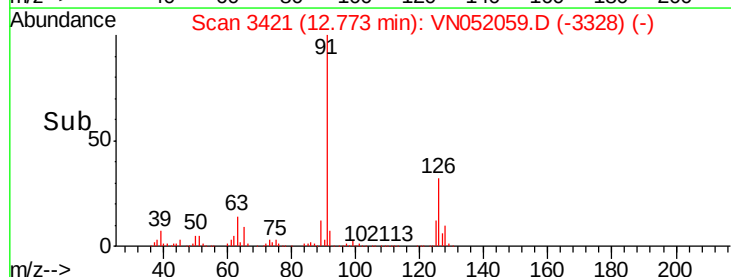
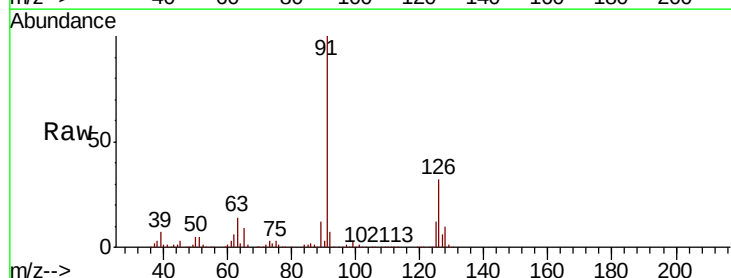
RT: 12.77 min Scan# 3421

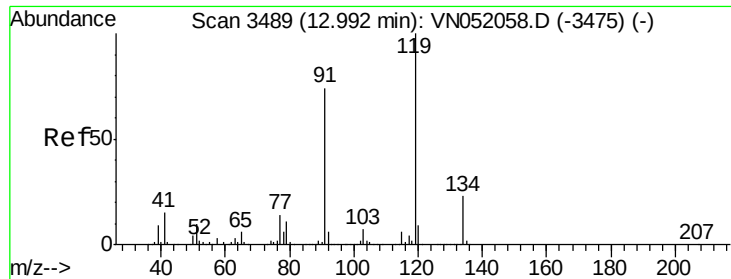
Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Tgt Ion:	91	Resp:	1364669
Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.7	47.1





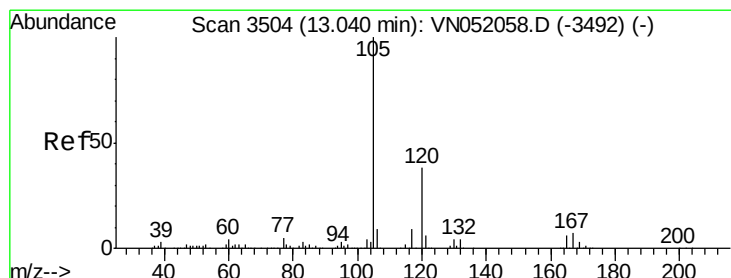
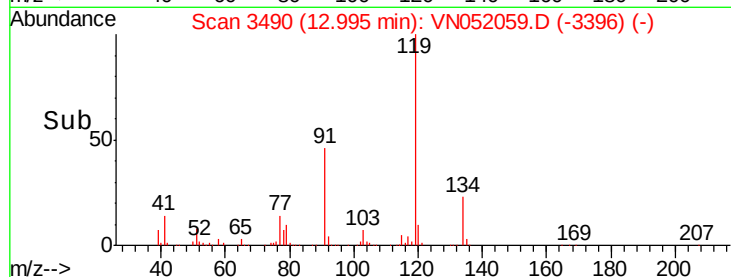
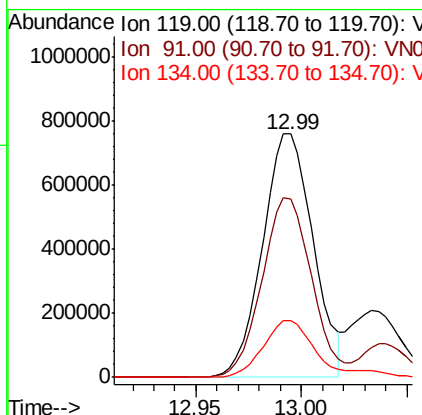
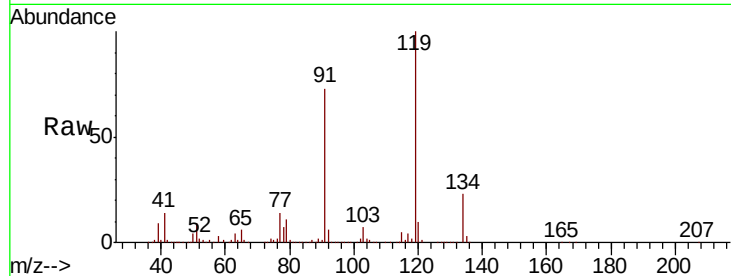
#83
 tert-Butylbenzene
 Concen: 102.581 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
119	100		
91	72.0	36.6	109.9
134	25.0	12.5	37.5

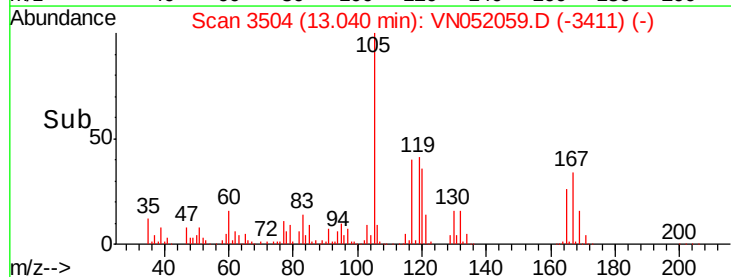
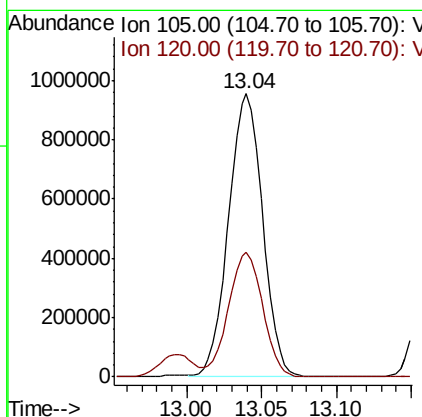
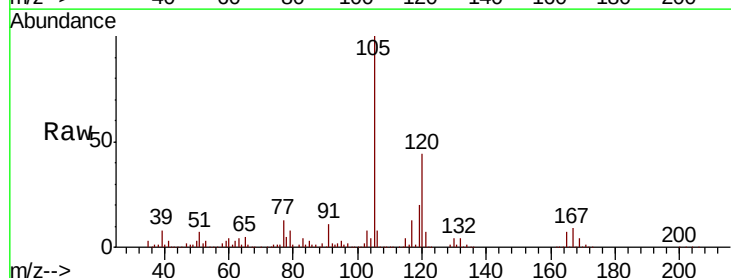
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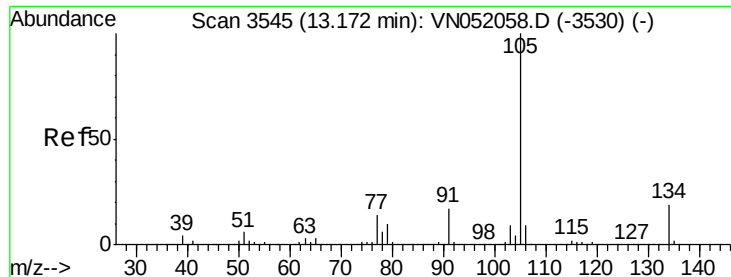
MMDadoda
 11/1/2018 11:48:01 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 106.680 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	21.9	65.5





#85

sec-Butylbenzene

Concen: 104.783 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1833901

Ion Ratio Lower Upper

105 100

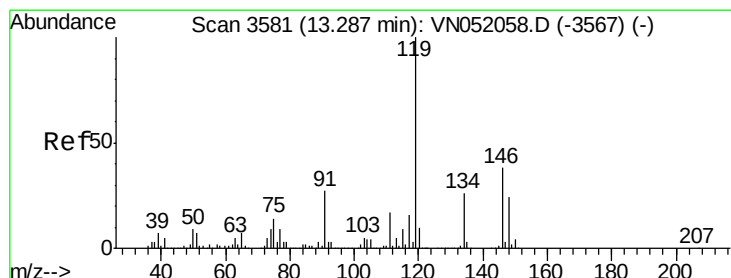
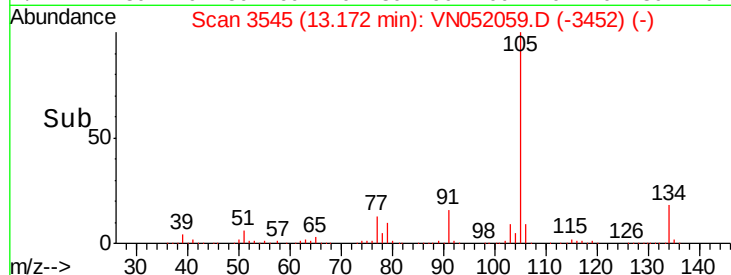
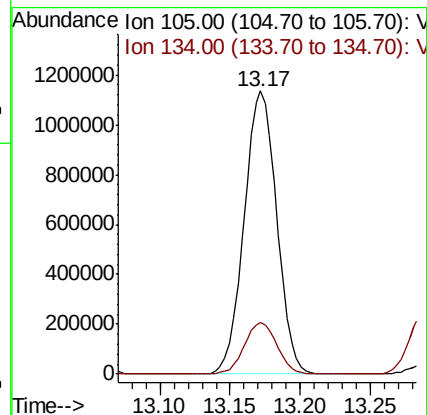
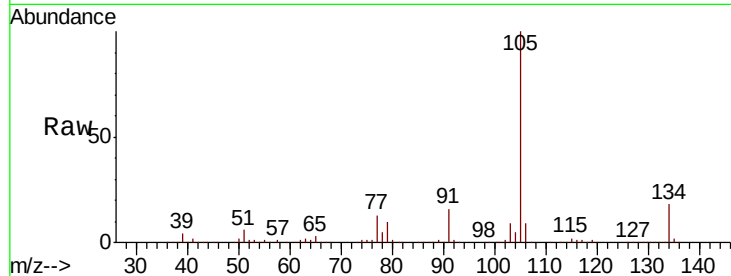
134 18.2 9.1 27.3

Manual Integrations

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MMDadoda

11/1/2018 11:48:01 AM



#86

p-Isopropyltoluene

Concen: 106.026 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

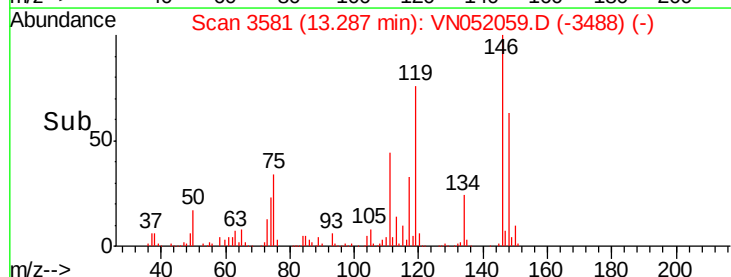
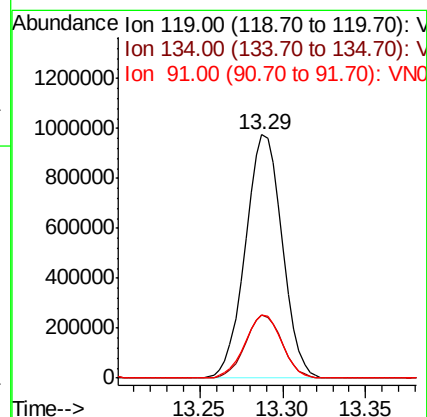
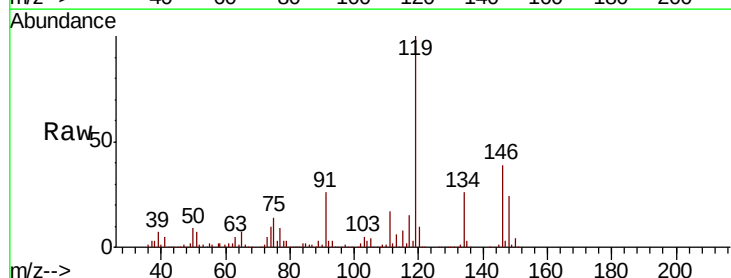
Tgt Ion:119 Resp: 1505098

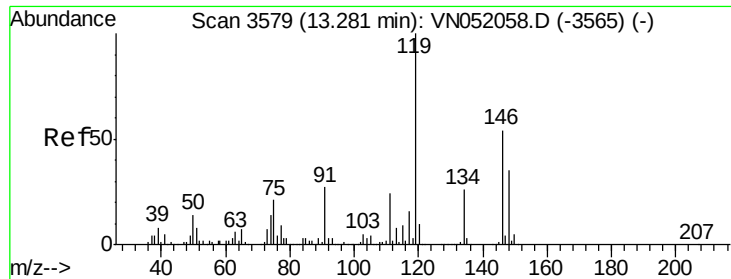
Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.3

91 26.0 13.4 40.2





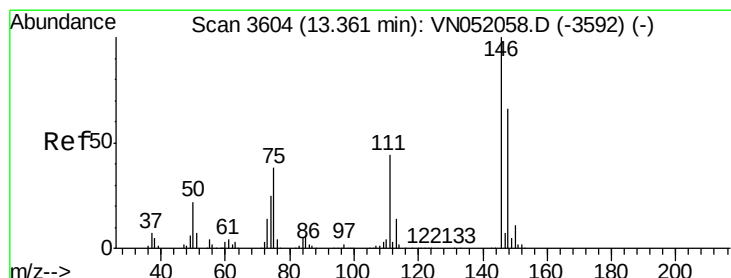
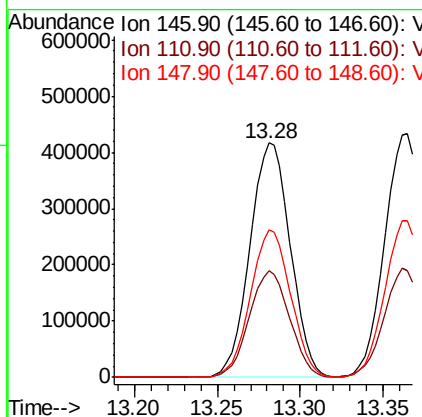
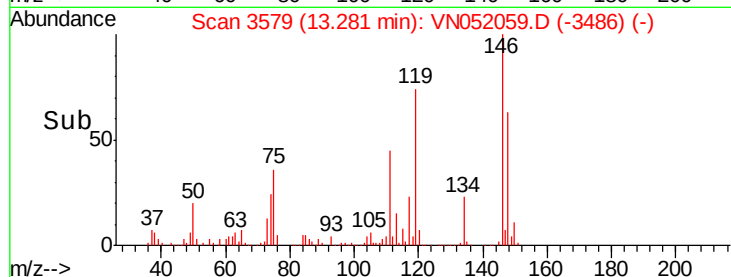
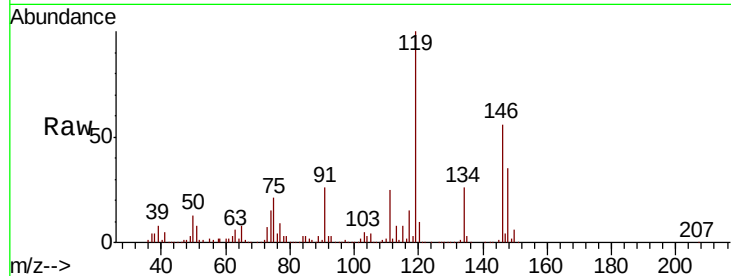
#87
 1,3-Dichlorobenzene
 Concen: 101.909 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.9	68.8
148	62.5	31.8	95.4

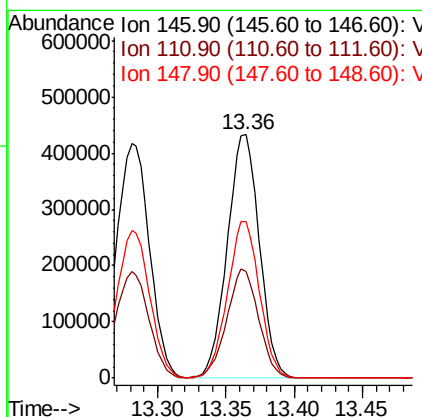
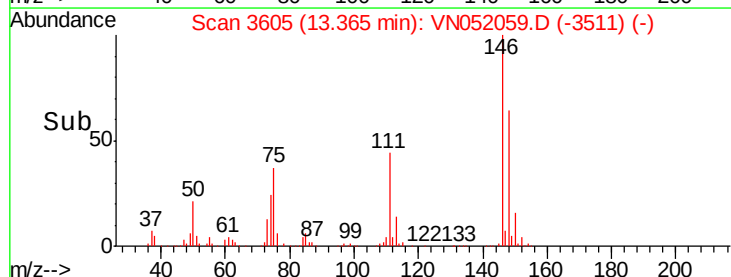
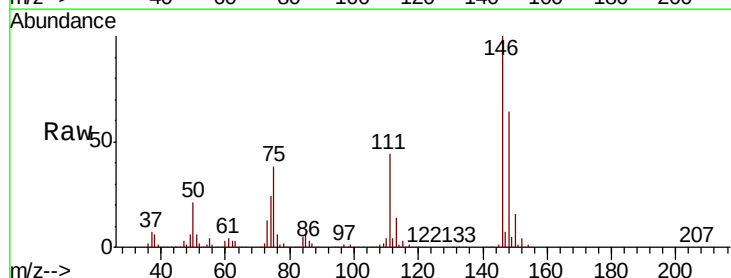
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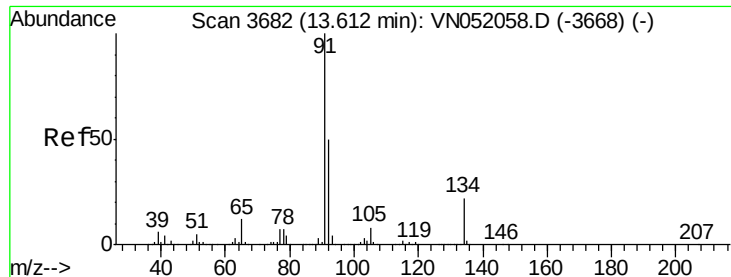
MMDadoda
 11/1/2018 11:48:01 AM



#88
 1,4-Dichlorobenzene
 Concen: 100.243 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.9	65.8
148	64.0	32.6	98.0





#89

n-Butylbenzene

Concen: 104.506 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN052059.D

Acq: 30 Oct 2018 11:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 1433300

Ion Ratio Lower Upper

91 100

92 51.8 25.3 75.8

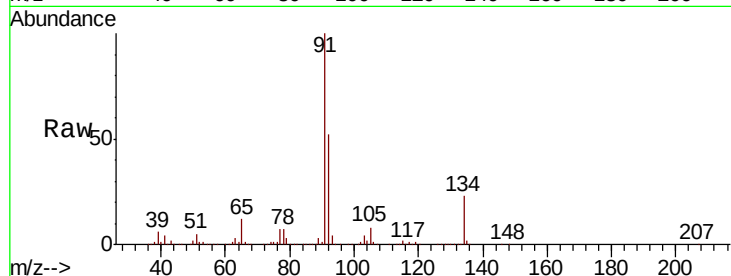
134 23.1 11.2 33.5

Manual Integrations

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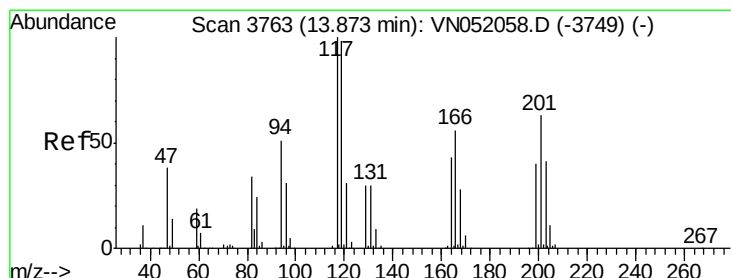
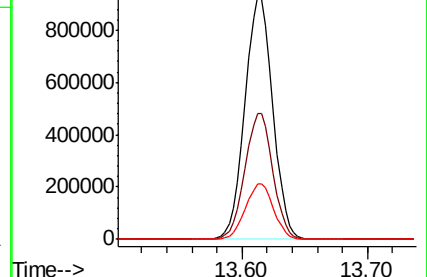
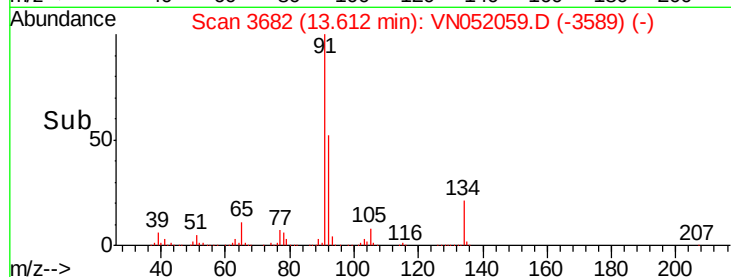
11/1/2018 11:48:01 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052058.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN052058.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN052058.D (-3668) (-)



#90

Hexachloroethane

Concen: 107.954 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN052059.D

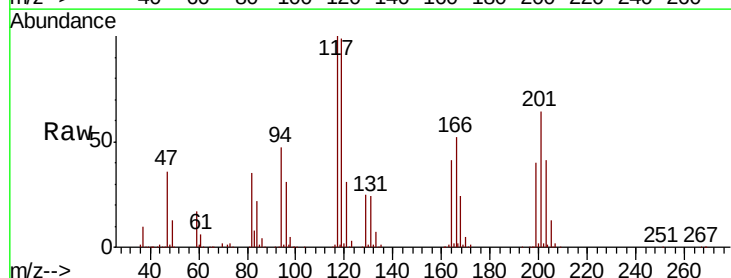
Acq: 30 Oct 2018 11:12

Tgt Ion: 117 Resp: 267140

Ion Ratio Lower Upper

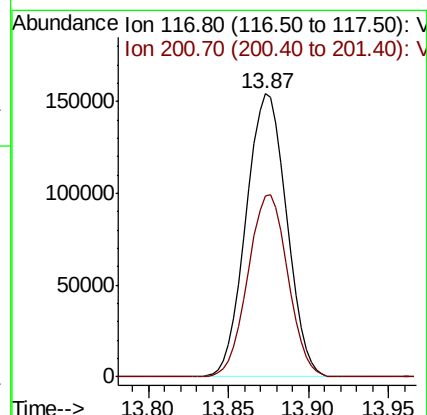
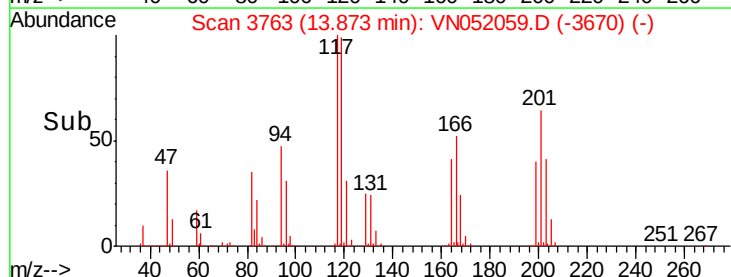
117 100

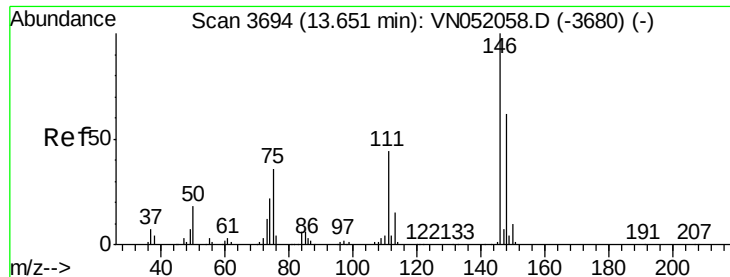
201 63.5 31.1 93.5



Abundance Ion 116.80 (116.50 to 117.50): VN052058.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN052058.D (-3749) (-)





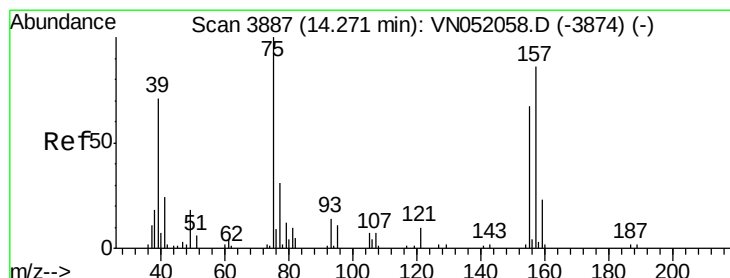
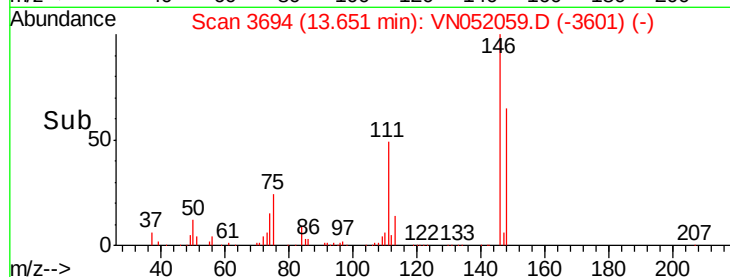
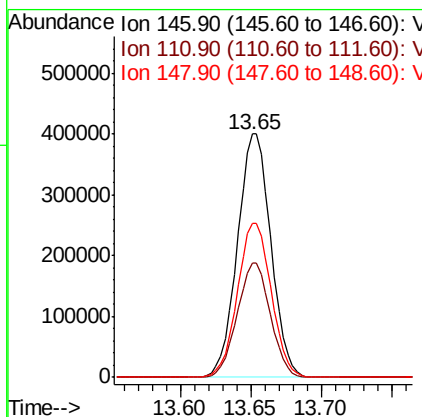
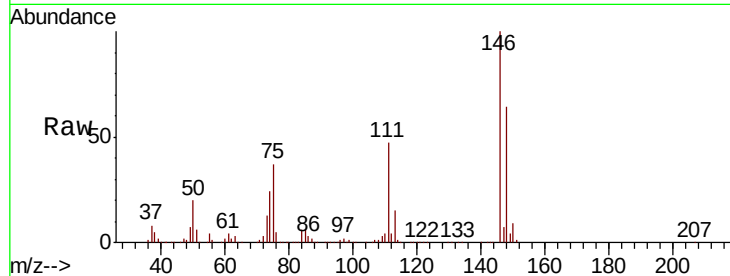
#91
 1,2-Dichlorobenzene
 Concen: 104.609 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.6	22.5	67.5
148	64.0	30.9	92.8

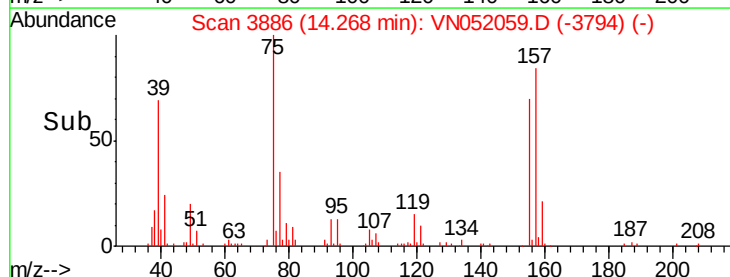
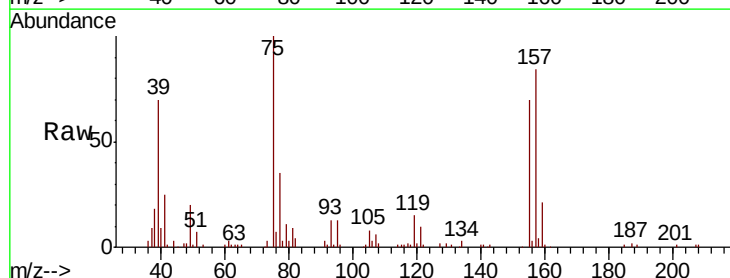
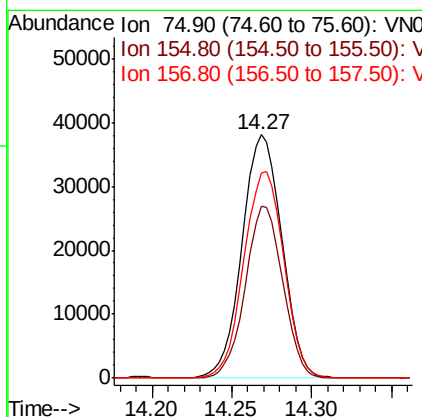
Manual Integrations
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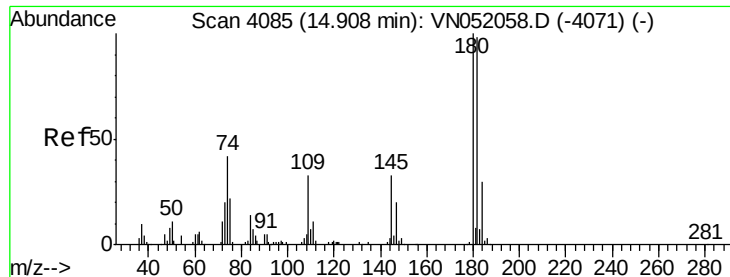
MMDadoda
 11/1/2018 11:48:01 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 160.909 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.2	34.0	102.0
157	85.2	42.1	126.4





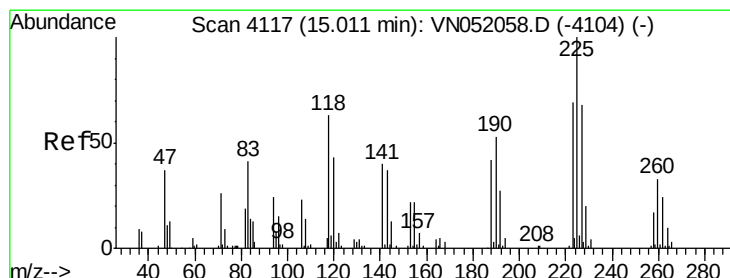
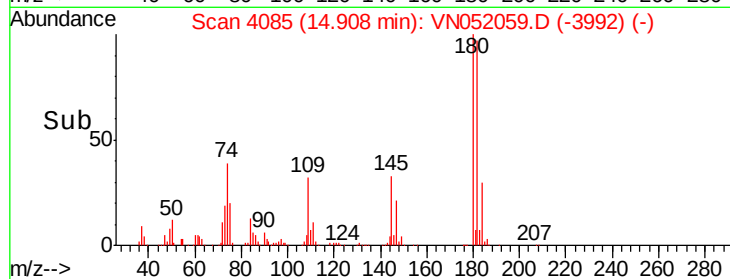
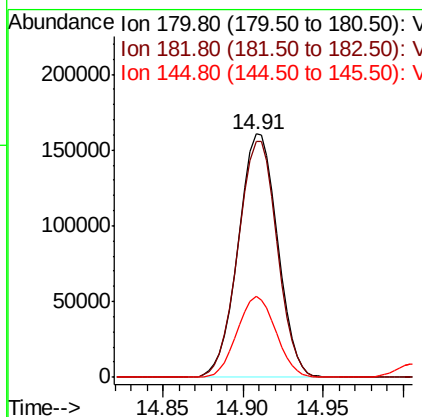
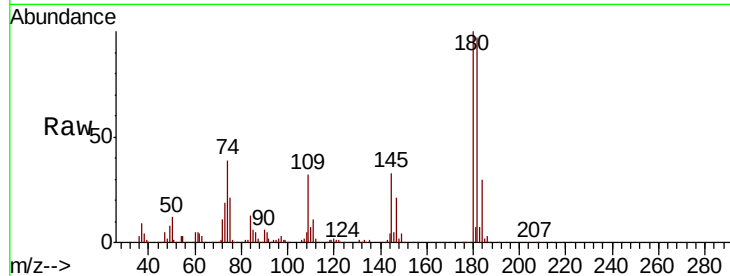
#93
 1,2,4-Trichlorobenzene
 Concen: 116.614 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	267615		
182	97.2	49.1	147.4	
145	32.9	16.4	49.2	

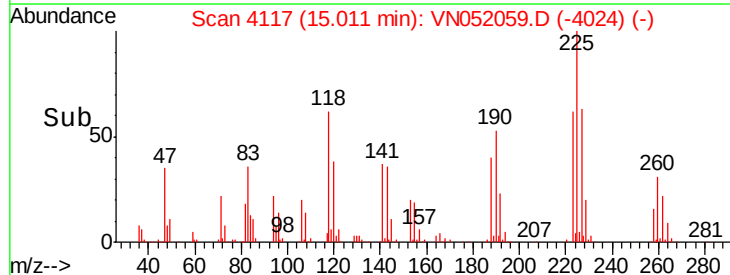
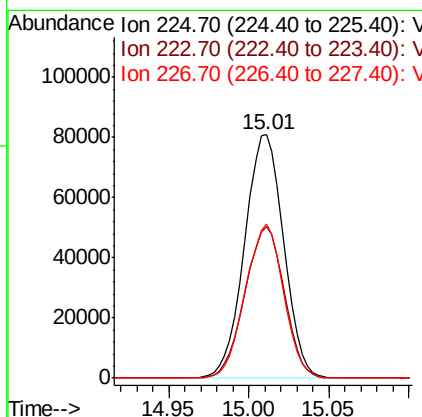
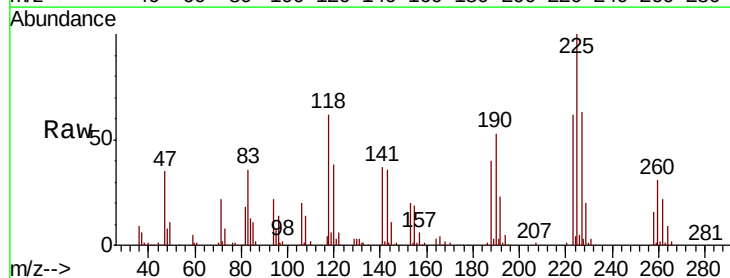
Manual Integrations
 APPROVED

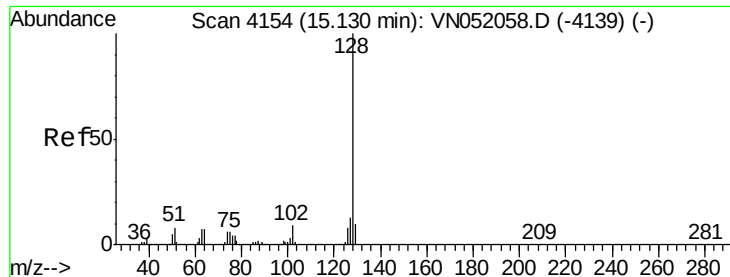
MMDadoda
 11/1/2018 11:48:01 AM



#94
 Hexachlorobutadiene
 Concen: 100.375 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052059.D
 Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	134908		
223	62.6	33.1	99.3	
227	62.0	32.6	97.8	





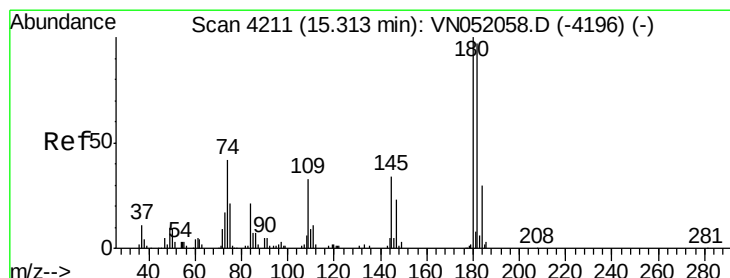
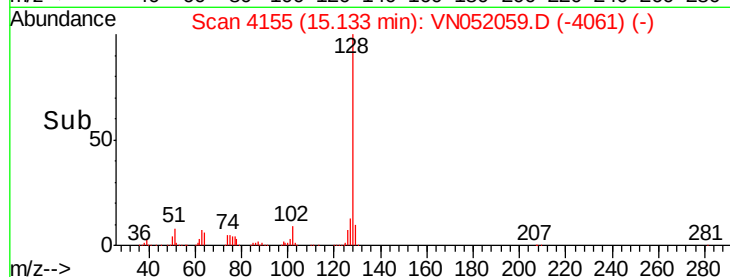
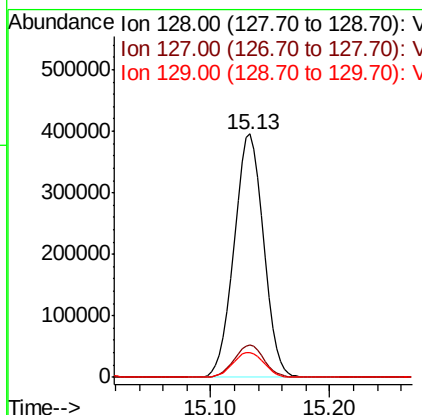
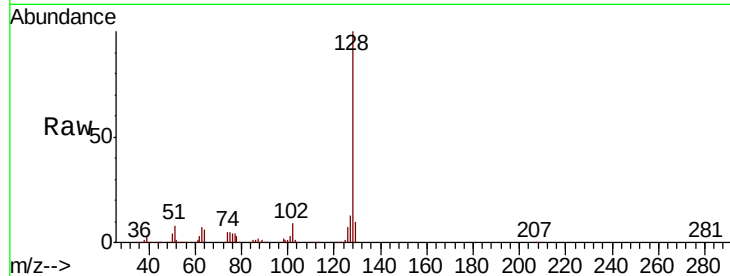
#95
Naphthalene
Concen: 111.453 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.5	15.7
129	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/1/2018 11:48:01 AM



#96
1,2,3-Trichlorobenzene
Concen: 107.785 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN052059.D
Acq: 30 Oct 2018 11:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.4	47.2	141.6
145	35.1	16.6	49.7

