

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100618\
 Data File : VN051693.D
 Acq On : 5 Oct 2018 17:53
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 12:50:02 PM

Quant Time: Oct 06 01:29:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	544369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	820002	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	794314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	515631	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	359763	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
35) Dibromofluoromethane	7.59	113	313866	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
50) Toluene-d8	10.09	98	1213384	51.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.60%	
62) 4-Bromofluorobenzene	12.40	95	458754	54.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	351358	51.572	ug/l	99
3) Chloromethane	2.06	50	330218	53.154	ug/l	100
4) Vinyl Chloride	2.18	62	531103	54.271	ug/l	98
5) Bromomethane	2.56	94	301666	40.084	ug/l	99
6) Chloroethane	2.70	64	364090	55.357	ug/l	100
7) Trichlorofluoromethane	3.01	101	508003	49.858	ug/l	100
8) Diethyl Ether	3.41	74	152020	53.308	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	292220	53.725	ug/l	99
10) Methyl Iodide	3.95	142	256949	36.396	ug/l	100
11) Tert butyl alcohol	4.79	59	127500	260.877	ug/l	95
12) 1,1-Dichloroethene	3.73	96	266178	52.506	ug/l	97
13) Acrolein	3.61	56	73547	240.872	ug/l	99
14) Allyl chloride	4.32	41	390368	50.487	ug/l	97
15) Acrylonitrile	4.99	53	447700	265.457	ug/l	99
16) Acetone	3.82	43	358760	302.097	ug/l	100
17) Carbon Disulfide	4.05	76	750037	48.673	ug/l	99
18) Methyl Acetate	4.33	43	225245	56.747	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	837440	50.046	ug/l	98
20) Methylene Chloride	4.55	84	294750	49.817	ug/l	100
21) trans-1,2-Dichloroethene	5.04	96	296269	49.317	ug/l	93
22) Diisopropyl ether	5.95	45	850246	51.299	ug/l	98
23) Vinyl Acetate	5.90	43	3154606	258.852	ug/l	99
24) 1,1-Dichloroethane	5.85	63	525365	49.286	ug/l	100
25) 2-Butanone	6.84	43	548745	264.252	ug/l	99
26) 2,2-Dichloropropane	6.83	77	523248	48.983	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	349594	50.129	ug/l	99
28) Bromochloromethane	7.19	49	241335	51.139	ug/l	98
29) Tetrahydrofuran	7.22	42	349326	274.123	ug/l	99
30) Chloroform	7.37	83	595536	49.725	ug/l	99
31) Cyclohexane	7.65	56	476522	48.813	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	569523	49.060	ug/l	99
36) 1,1-Dichloropropene	7.79	75	433349	50.560	ug/l	99
37) Ethyl Acetate	6.93	43	246094	55.052	ug/l	99
38) Carbon Tetrachloride	7.77	117	509971	49.585	ug/l	100

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	565733	52.582	ug/l	98
40) Benzene	8.04	78	1298868	51.119	ug/l	98
41) Methacrylonitrile	7.17	41	117313	50.940	ug/l #	93
42) 1,2-Dichloroethane	8.13	62	449434	52.486	ug/l	99
43) Isopropyl Acetate	8.17	43	517941	55.573	ug/l	98
44) Trichloroethene	8.84	130	366088	50.743	ug/l	98
45) 1,2-Dichloropropane	9.12	63	320669	51.045	ug/l	99
46) Dibromomethane	9.21	93	222917	51.051	ug/l	100
47) Bromodichloromethane	9.40	83	489677	50.943	ug/l	99
48) Methyl methacrylate	9.20	41	240289	56.422	ug/l	96
49) 1,4-Dioxane	9.20	88	68798	1077.346	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1339434	283.614	ug/l	98
52) Toluene	10.16	92	888078	52.551	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	508913	51.309	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	531258	50.439	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	316550	52.582	ug/l	98
56) Ethyl methacrylate	10.43	69	413545	54.320	ug/l	96
57) 1,3-Dichloropropane	10.71	76	505964	53.102	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	859275	272.716	ug/l	100
59) 2-Hexanone	10.75	43	907738	283.017	ug/l	97
60) Dibromochloromethane	10.90	129	404943	51.400	ug/l	100
61) 1,2-Dibromoethane	11.01	107	334807	52.608	ug/l	99
64) Tetrachloroethene	10.63	164	350058	49.953	ug/l	96
65) Chlorobenzene	11.43	112	1002745	50.972	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	399682	50.741	ug/l	100
67) Ethyl Benzene	11.51	91	1771503	52.099	ug/l	100
68) m/p-Xylenes	11.62	106	1505668	110.669	ug/l	100
69) o-Xylene	11.95	106	729024	54.639	ug/l	99
70) Styrene	11.96	104	1208729	56.853	ug/l	99
71) Bromoform	12.13	173	302379	51.610	ug/l #	98
73) Isopropylbenzene	12.25	105	2002216	45.552	ug/l	99
74) N-amyl acetate	12.07	43	478457	52.855	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	421502	49.414	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	351591m	55.313	ug/l	
77) Bromobenzene	12.53	156	481053	44.760	ug/l	99
78) n-propylbenzene	12.59	91	2271183	47.374	ug/l	99
79) 2-Chlorotoluene	12.67	91	1327676	46.990	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1795515	48.473	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	128852	45.935	ug/l	97
82) 4-Chlorotoluene	12.77	91	1408666	49.629	ug/l	99
83) tert-Butylbenzene	12.99	119	1612958	48.596	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1835445	49.469	ug/l	99
85) sec-Butylbenzene	13.17	105	2191932	49.925	ug/l	100
86) p-Isopropyltoluene	13.29	119	1987411	51.061	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	958082	51.159	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	934367	50.689	ug/l	100
89) n-Butylbenzene	13.62	91	1616085	52.514	ug/l	99
90) Hexachloroethane	13.88	117	363873	46.857	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	935584	50.254	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	72396	46.887	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	391722	47.286	ug/l	99
94) Hexachlorobutadiene	15.01	225	252256	44.880	ug/l	97
95) Naphthalene	15.13	128	823311	46.022	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	376491	46.145	ug/l	99

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

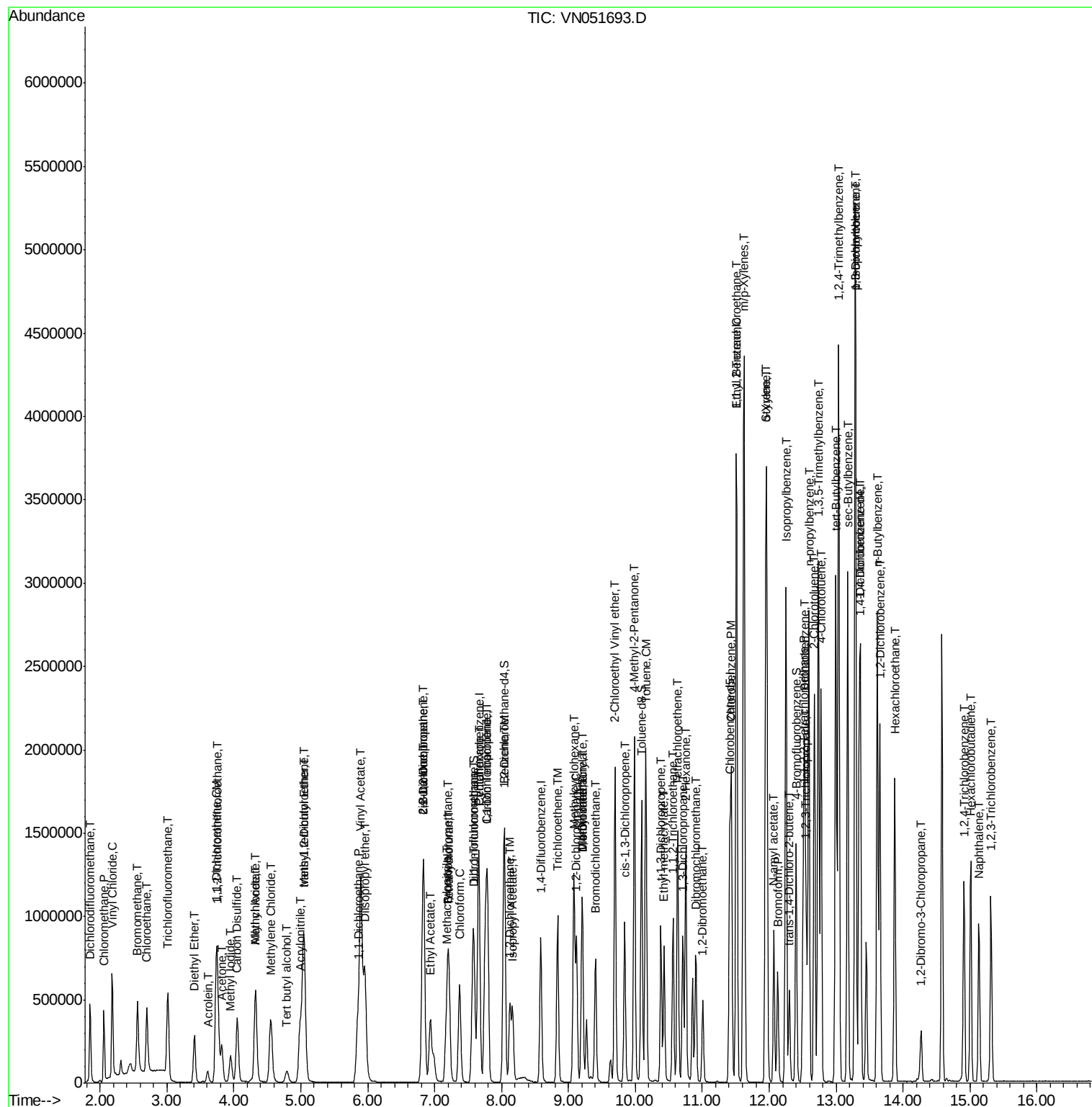
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100618\
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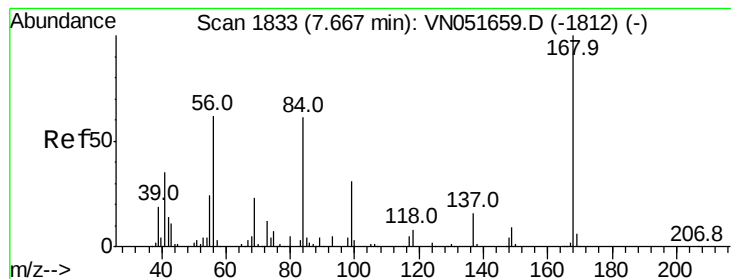
Instrument :
MSVOA_N
ClientSampleId :
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 544369

Ion Ratio Lower Upper

168 100

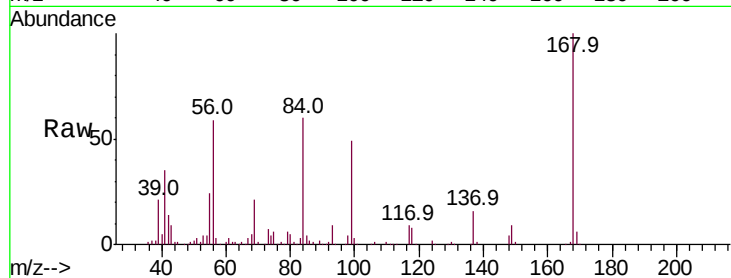
99 48.4 40.4 60.6

Manual Integrations

APPROVED

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10/8/2018 12:50:02 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

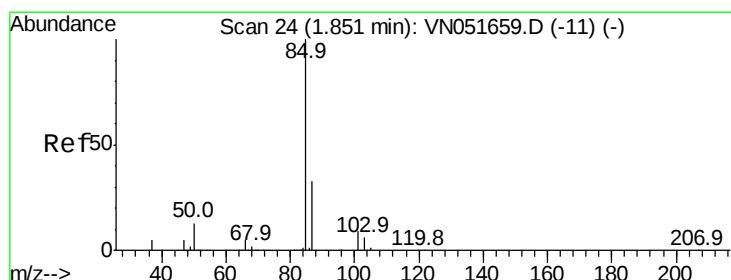
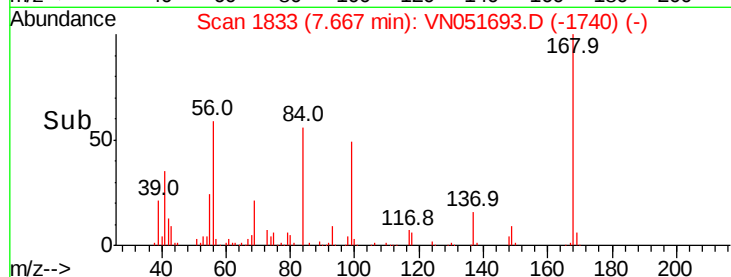
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 51.572 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051693.D

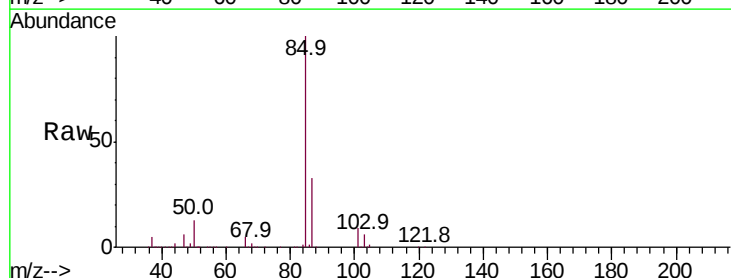
Acq: 5 Oct 2018 17:53

Tgt Ion: 85 Resp: 351358

Ion Ratio Lower Upper

85 100

87 33.3 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

250000

200000

150000

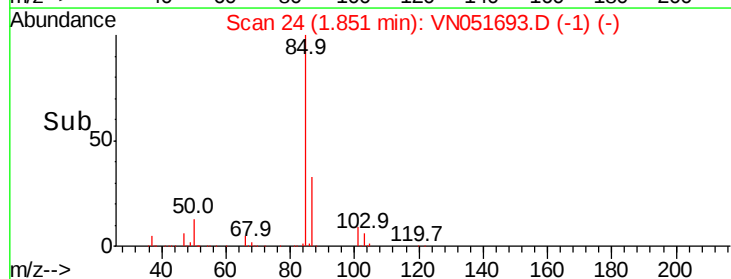
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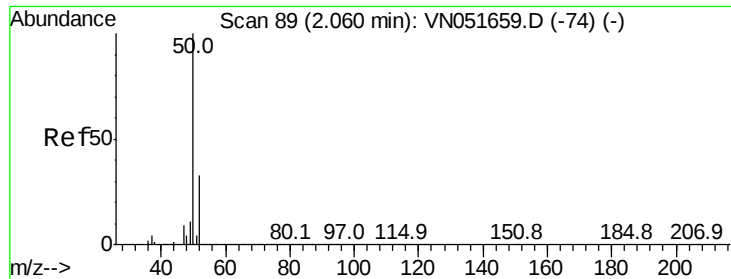
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 53.154 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 330218

Ion Ratio Lower Upper

50 100

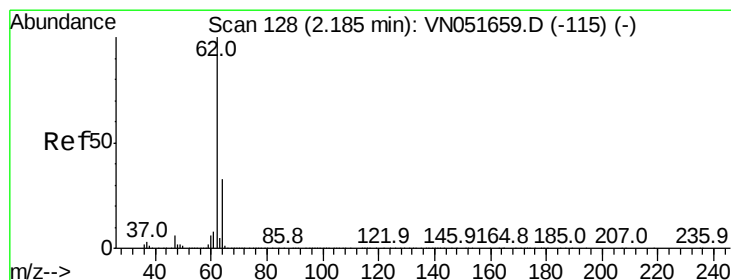
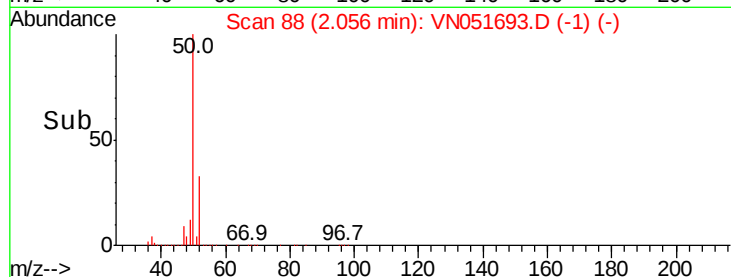
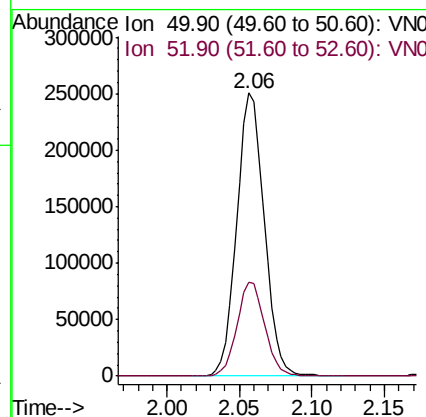
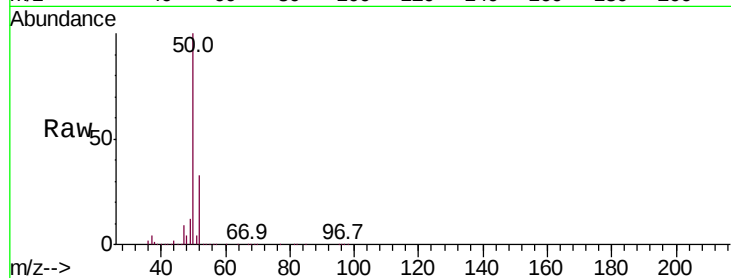
52 33.4 26.6 39.8

Manual Integrations

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10/8/2018 12:50:02 PM



#4

Vinyl Chloride

Concen: 54.271 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051693.D

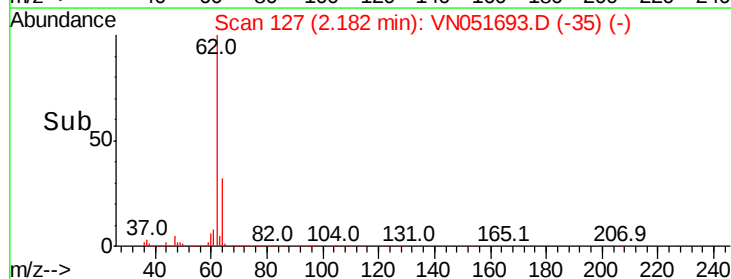
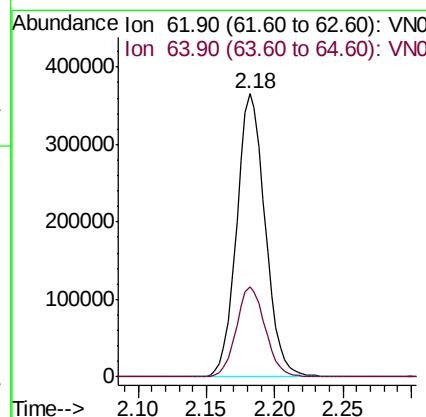
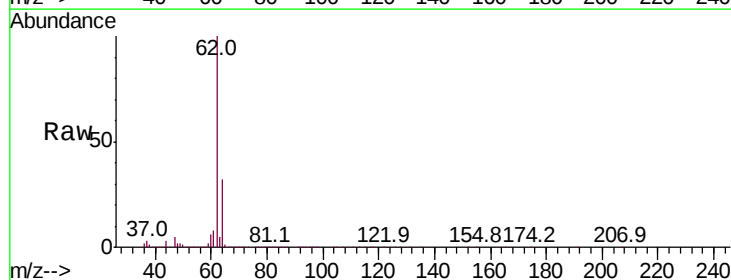
Acq: 5 Oct 2018 17:53

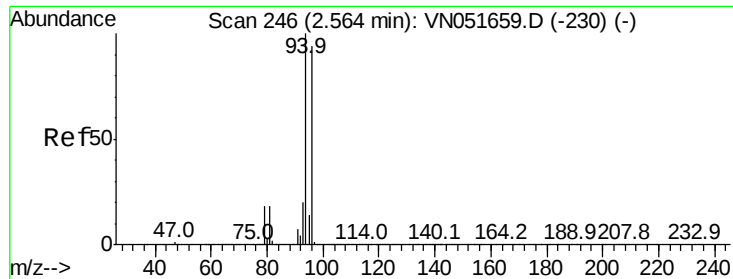
Tgt Ion: 62 Resp: 531103

Ion Ratio Lower Upper

62 100

64 31.7 26.2 39.4





#5

Bromomethane

Concen: 40.084 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 301666

Ion Ratio Lower Upper

94 100

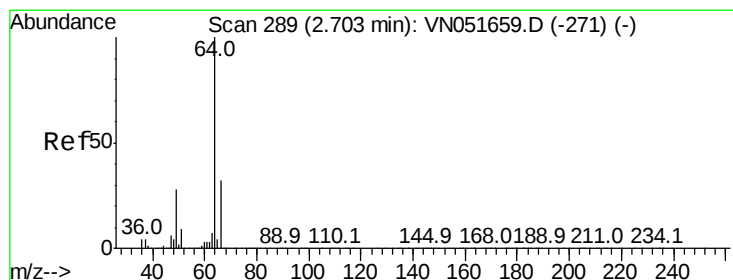
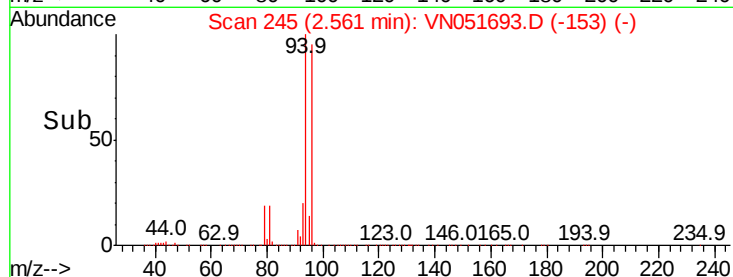
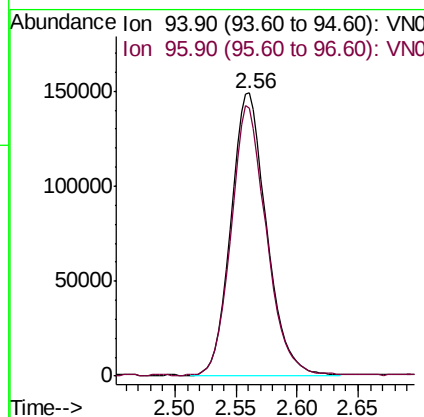
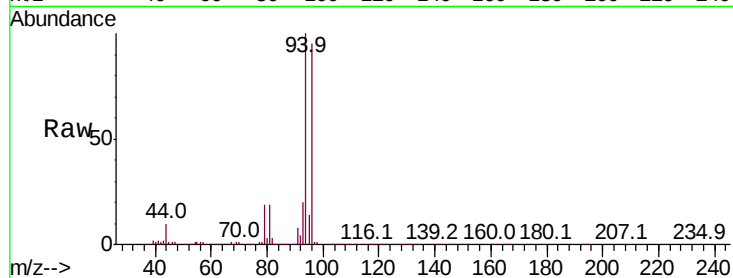
96 94.5 75.2 112.8

Manual Integrations

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#6

Chloroethane

Concen: 55.357 ug/l

RT: 2.70 min Scan# 288

Delta R.T. -0.00 min

Lab File: VN051693.D

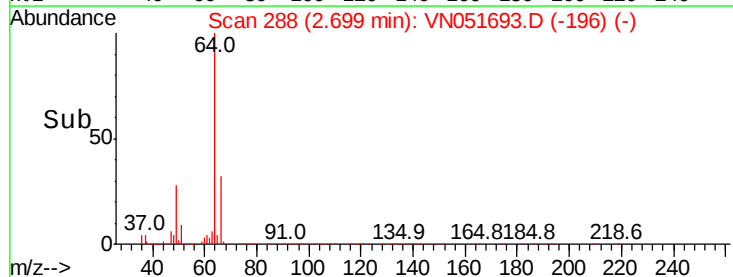
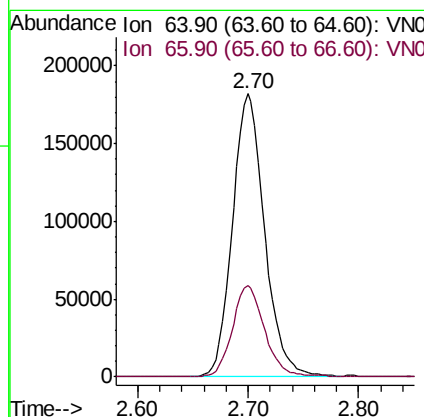
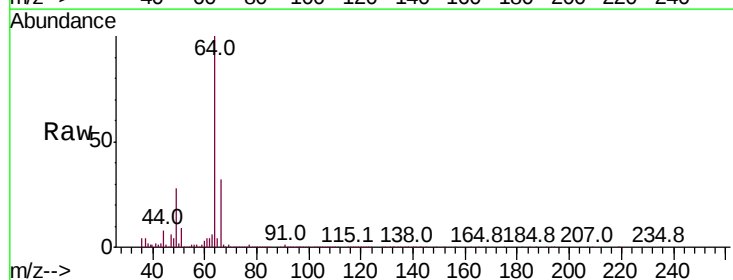
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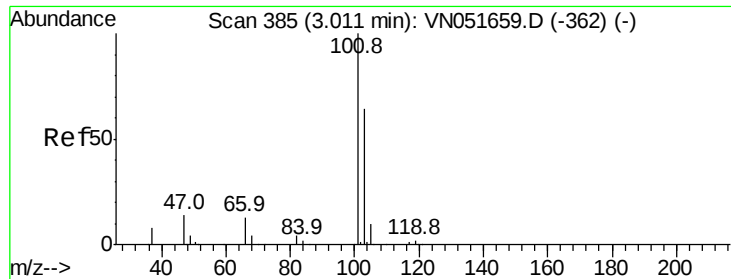
Tgt Ion: 64 Resp: 364090

Ion Ratio Lower Upper

64 100

66 32.3 26.0 39.0





#7

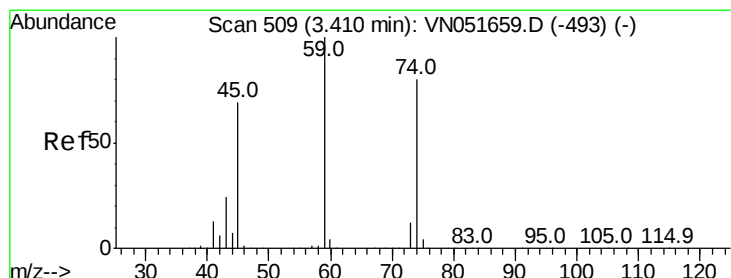
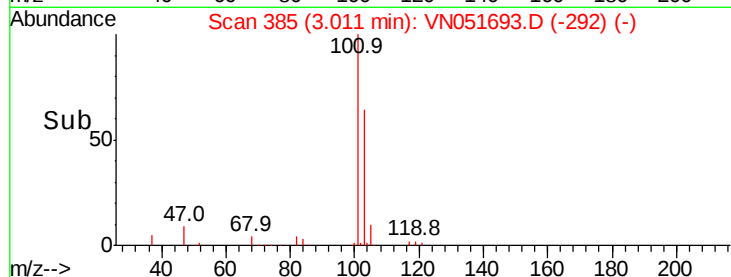
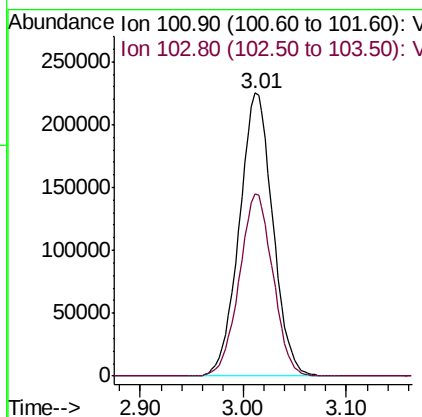
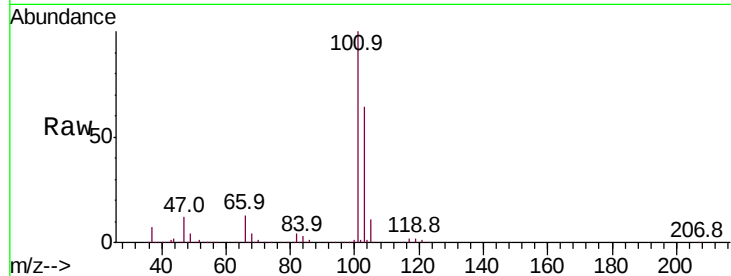
Trichlorofluoromethane
 Concen: 49.858 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.1	76.7

Manual Integrations
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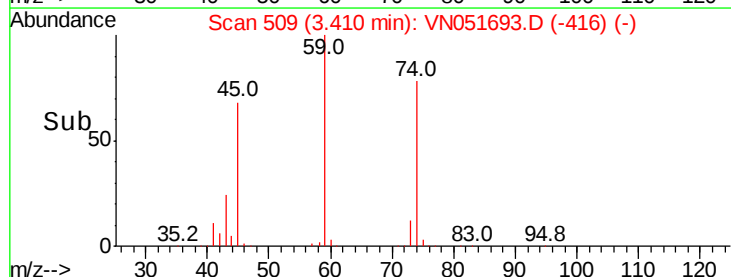
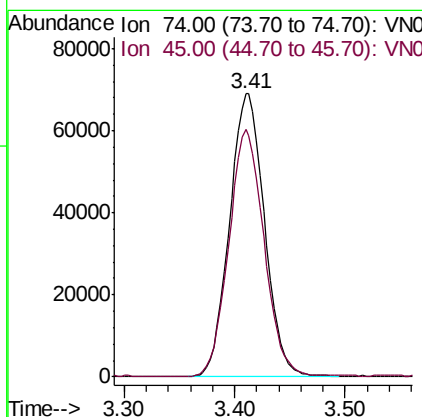
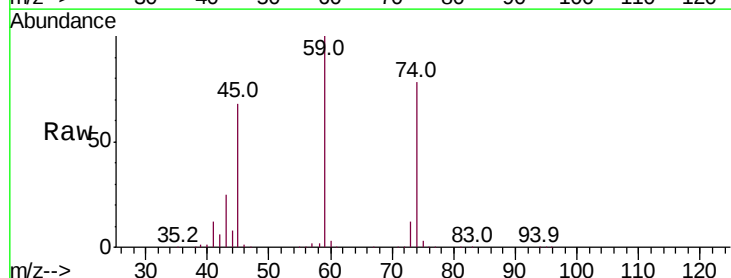
MMDadoda
 10/8/2018 12:50:02 PM

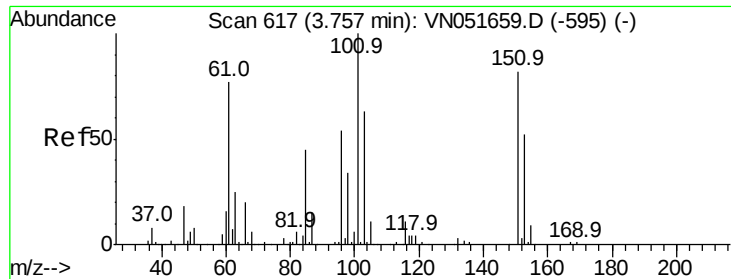


#8

Diethyl Ether
 Concen: 53.308 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	88.0	44.3	132.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.725 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

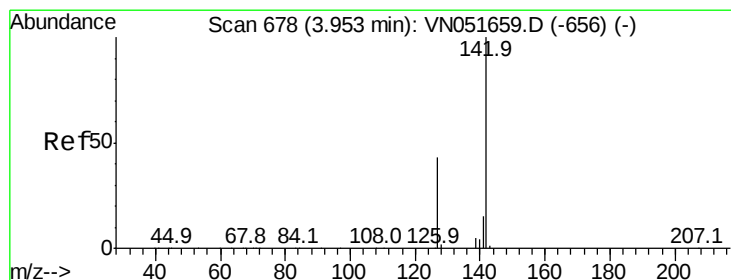
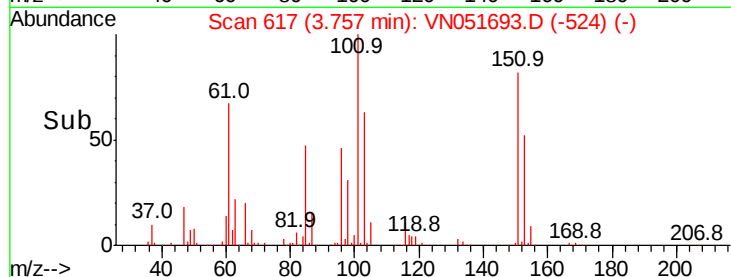
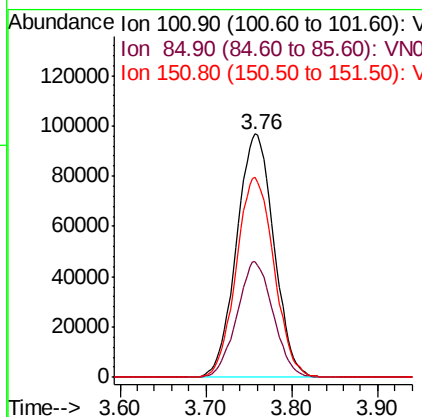
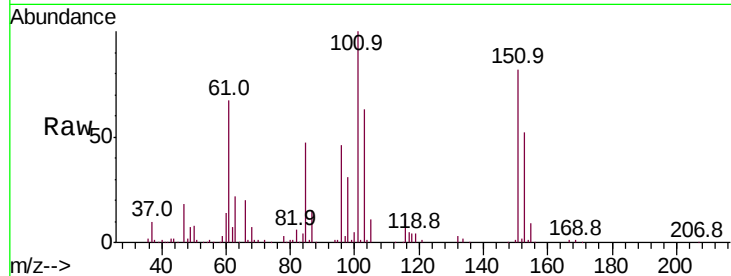
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	292220
Ion Ratio	Lower	Upper	
101	100		
85	45.9	35.6	53.4
151	82.8	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 36.396 ug/l

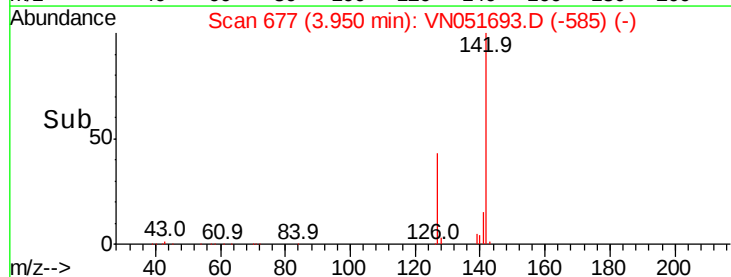
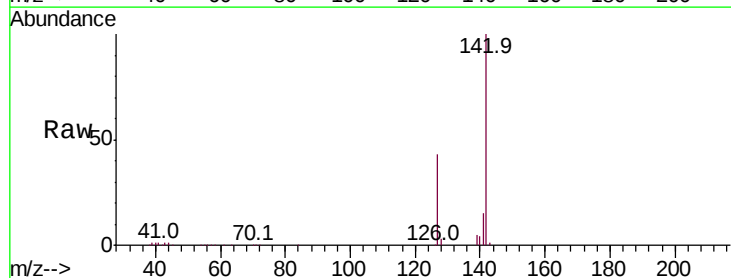
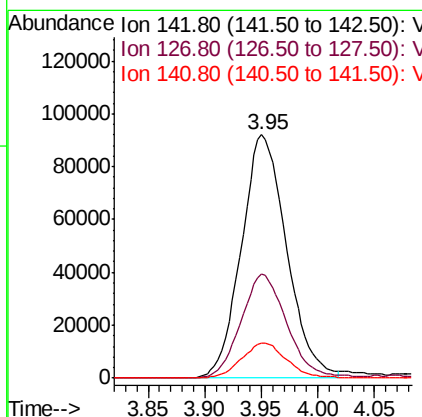
RT: 3.95 min Scan# 677

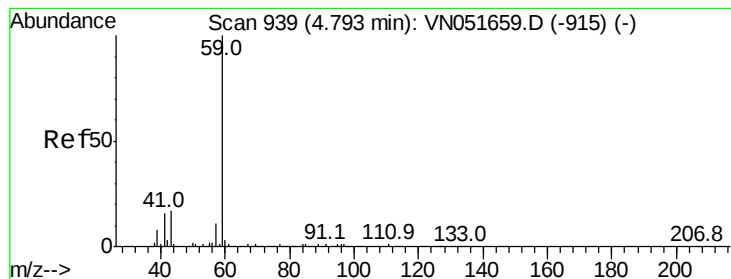
Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion:	142	Resp:	256949
Ion Ratio	Lower	Upper	
142	100		
127	43.3	34.7	52.1
141	14.5	11.4	17.2





#11

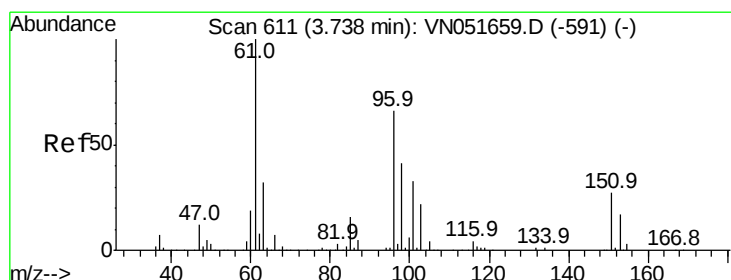
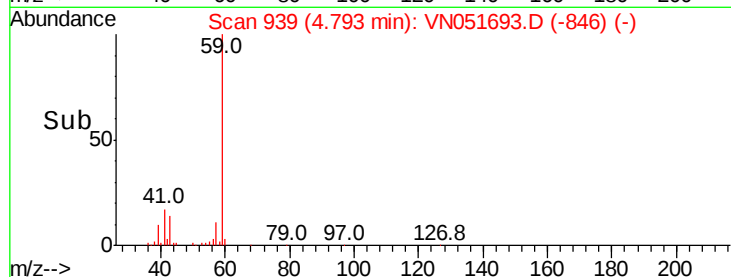
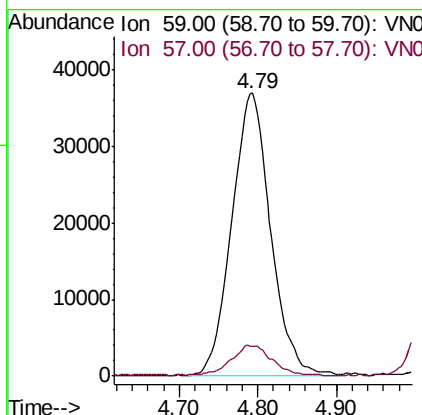
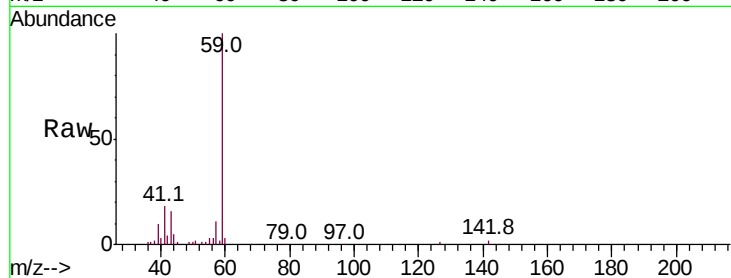
Tert butyl alcohol
Concen: 260.877 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.1	12.1

Manual Integrations
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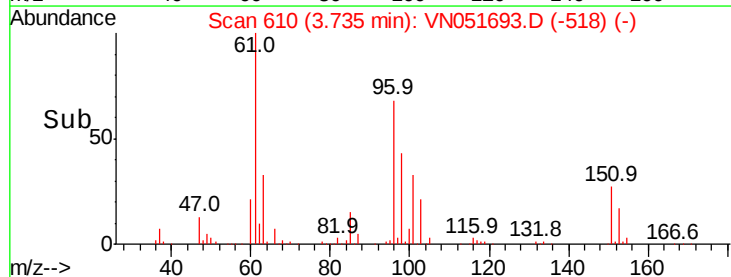
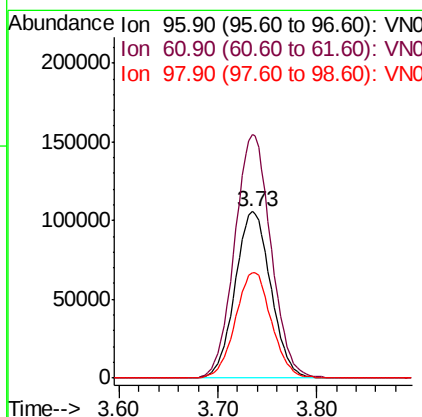
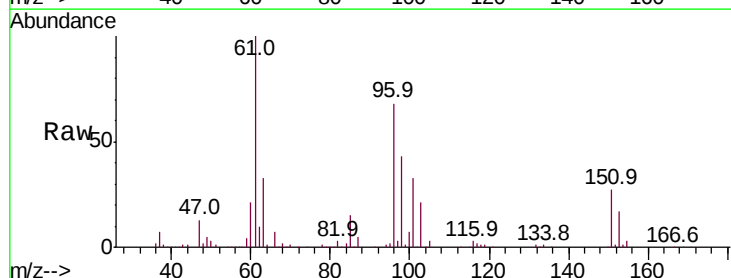
MMDadoda
10/8/2018 12:50:02 PM

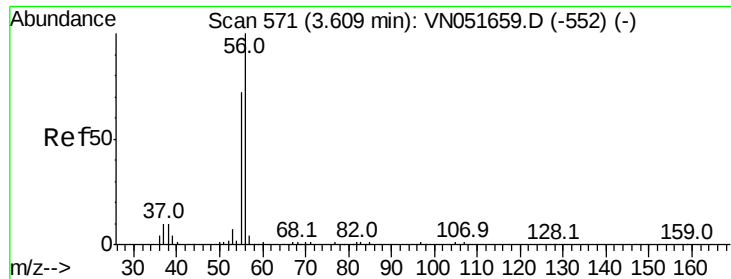


#12

1,1-Dichloroethene
Concen: 52.506 ug/l
RT: 3.73 min Scan# 610
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.3	121.4	182.0
98	63.6	49.9	74.9





#13

Acrolein

Concen: 240.872 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 73547

Ion Ratio Lower Upper

56 100

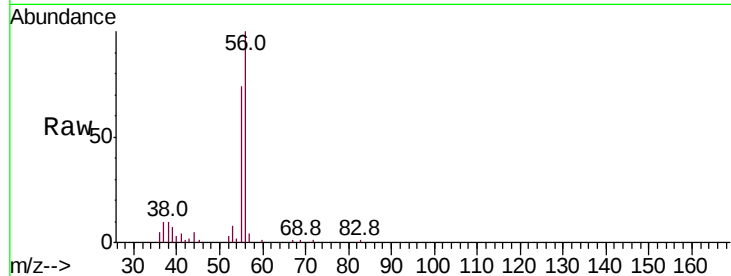
55 71.2 57.5 86.3

Manual Integrations

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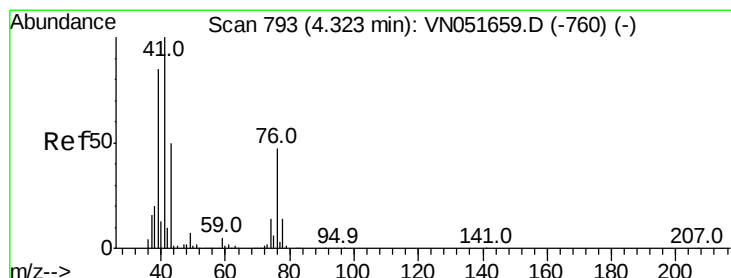
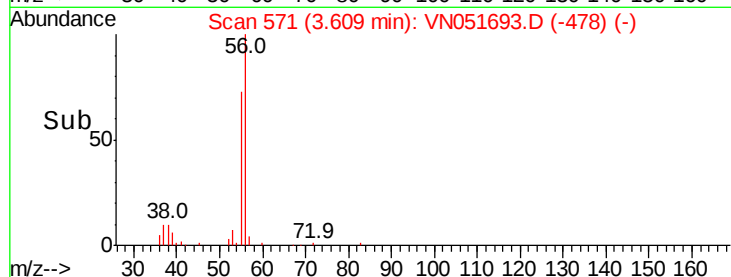
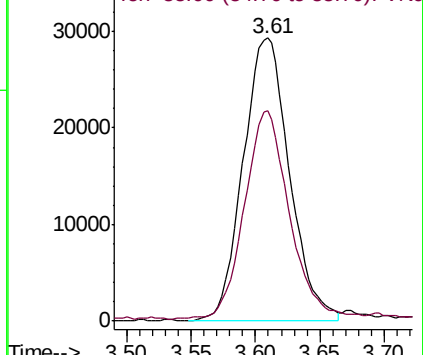
MMDadoda

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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: 50.487 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

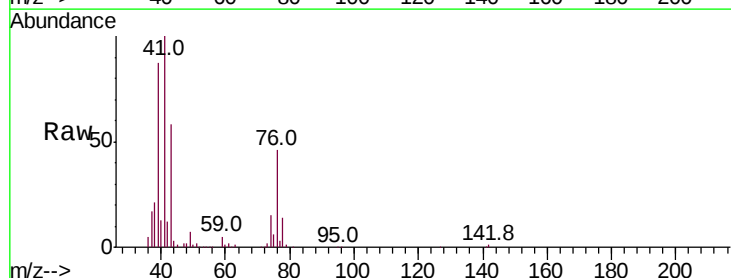
Tgt Ion: 41 Resp: 390368

Ion Ratio Lower Upper

41 100

39 84.8 65.4 98.0

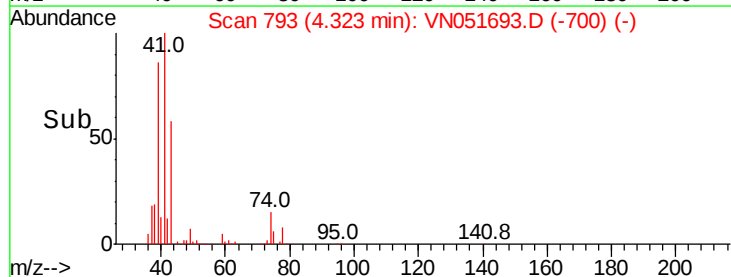
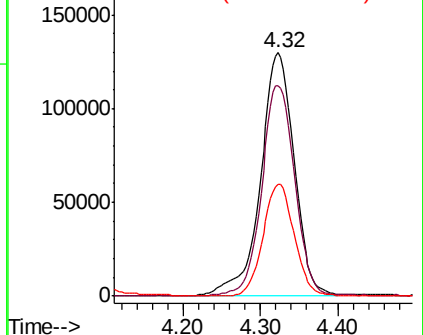
76 42.1 34.3 51.5

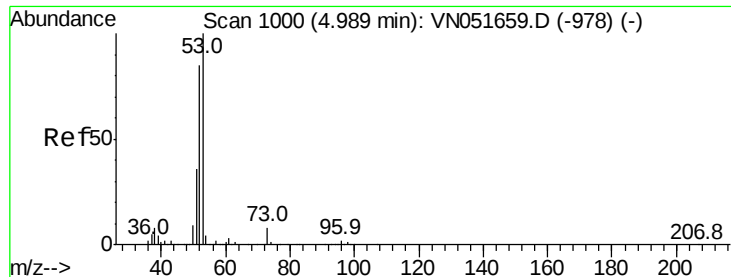


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 265.457 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

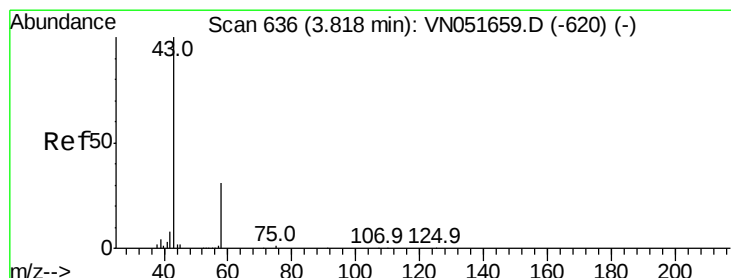
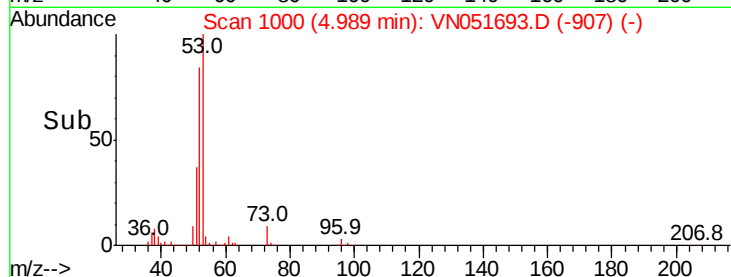
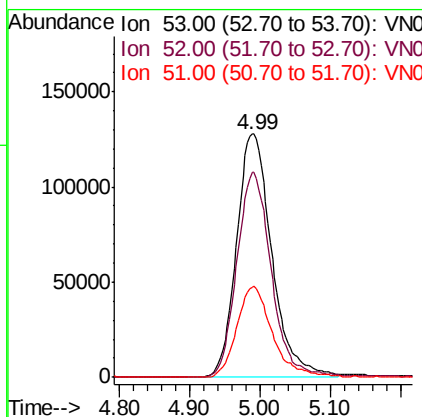
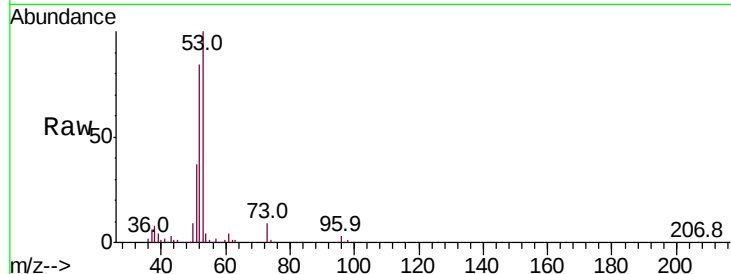
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	447700
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.2	99.2
51	37.2	30.3	45.5

Manual Integrations
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#16

Acetone

Concen: 302.097 ug/l

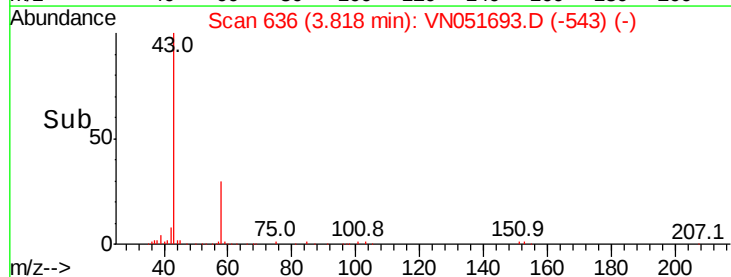
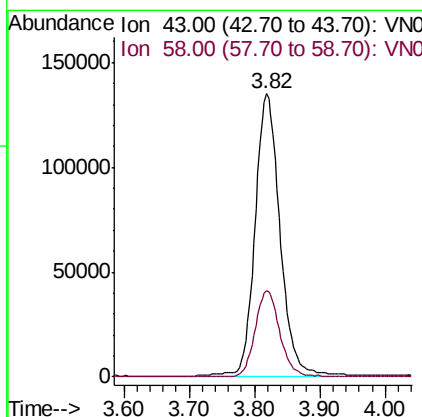
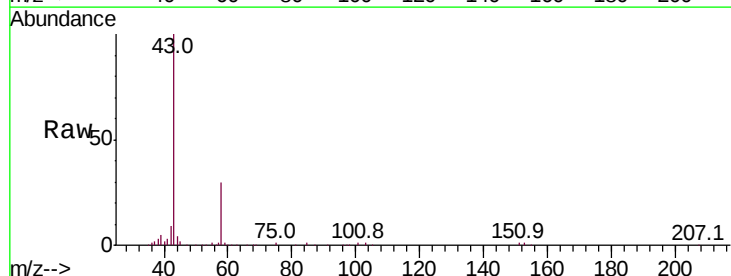
RT: 3.82 min Scan# 636

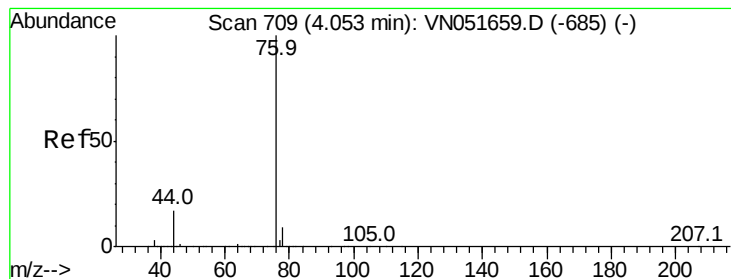
Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion:	43	Resp:	358760
Ion	Ratio	Lower	Upper
43	100		
58	30.4	24.3	36.5





#17

Carbon Disulfide

Concen: 48.673 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 750037

Ion Ratio Lower Upper

76 100

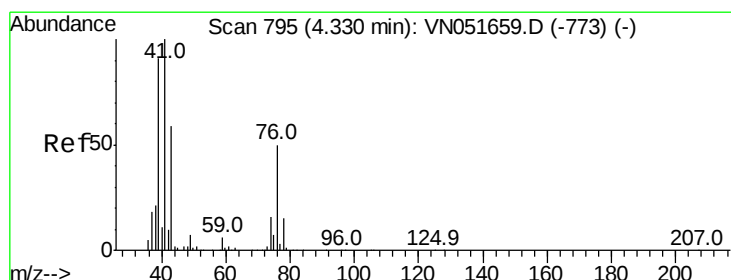
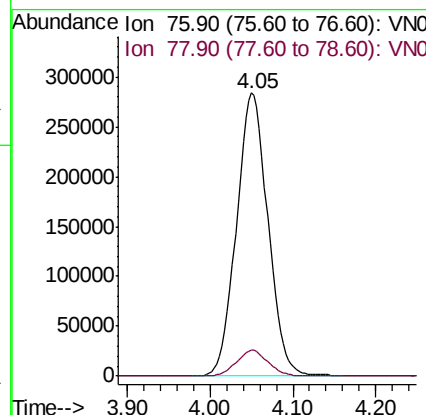
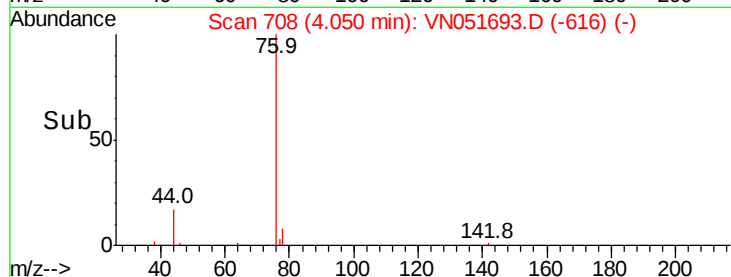
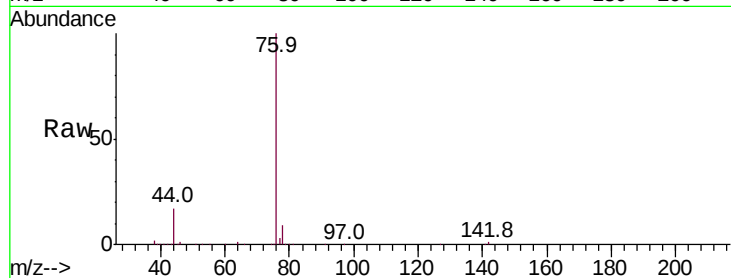
78 9.3 7.2 10.8

Manual Integrations

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#18

Methyl Acetate

Concen: 56.747 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051693.D

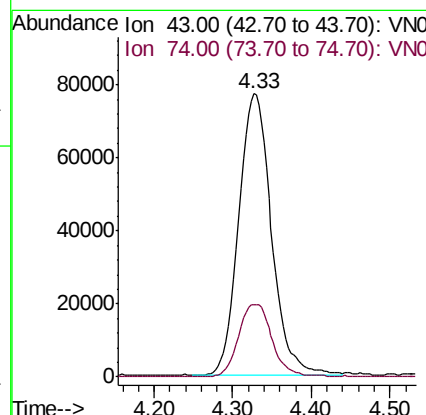
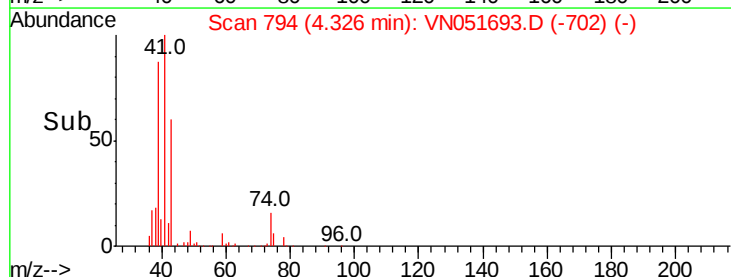
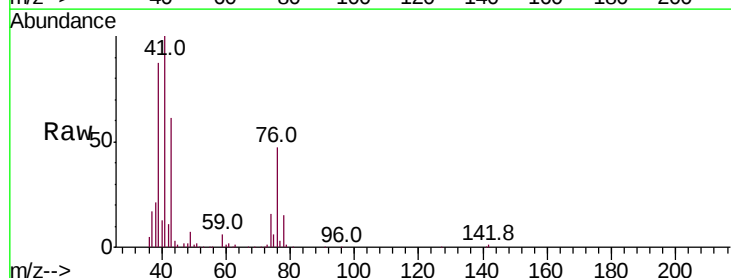
Acq: 5 Oct 2018 17:53

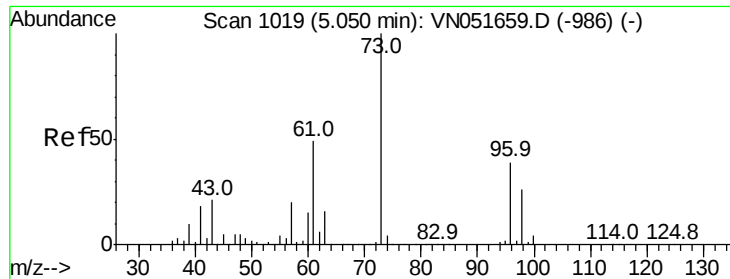
Tgt Ion: 43 Resp: 225245

Ion Ratio Lower Upper

43 100

74 26.3 21.5 32.3





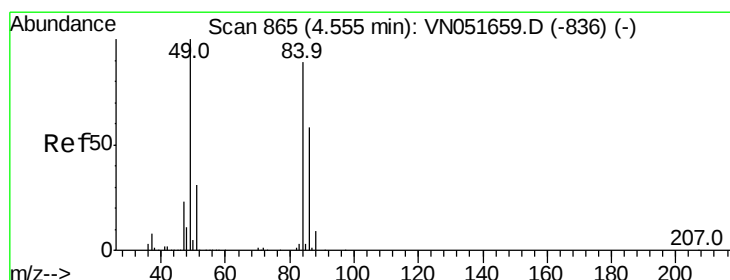
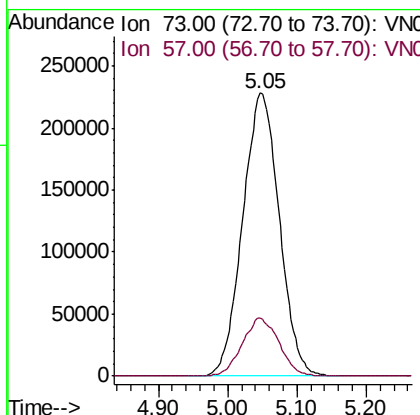
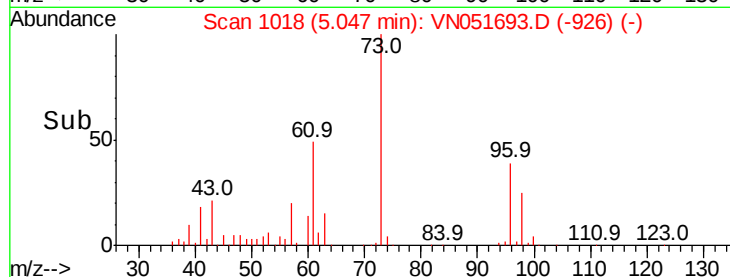
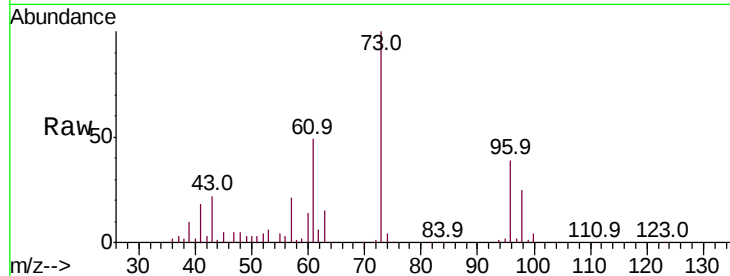
#19
Methyl tert-butyl Ether
Concen: 50.046 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 837440
Ion Ratio Lower Upper
73 100
57 20.6 15.6 23.4

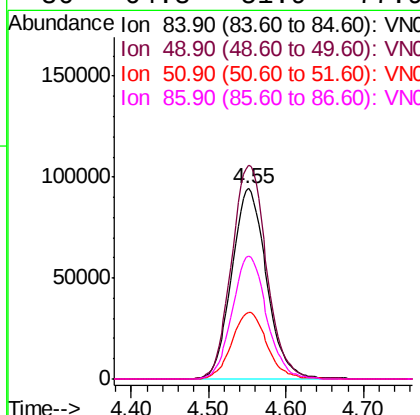
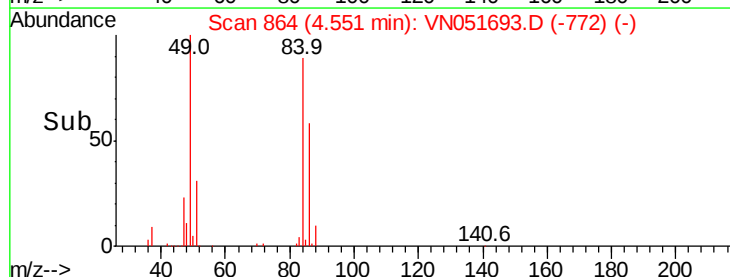
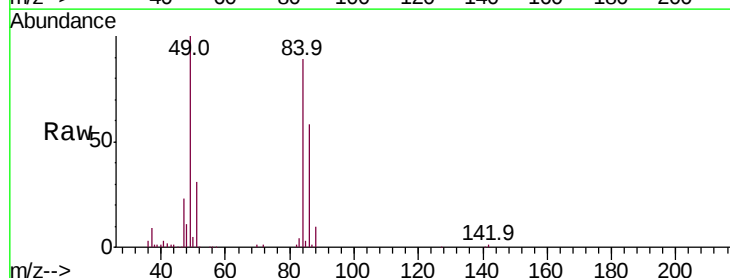
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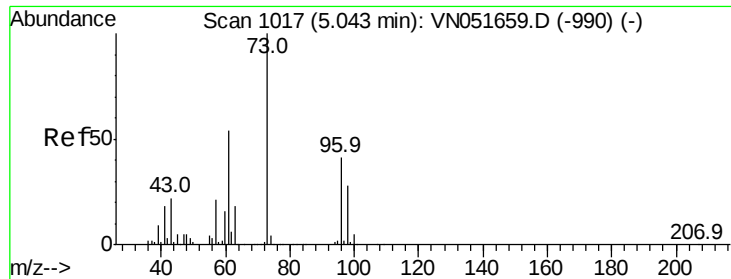
MMDadoda
10/8/2018 12:50:02 PM



#20
Methylene Chloride
Concen: 49.817 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion: 84 Resp: 294750
Ion Ratio Lower Upper
84 100
49 112.3 89.5 134.3
51 35.0 27.4 41.0
86 64.8 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 49.317 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 296269

Ion Ratio Lower Upper

96 100

61 122.3 104.7 157.1

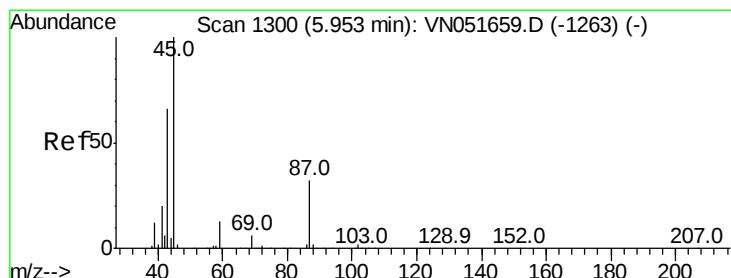
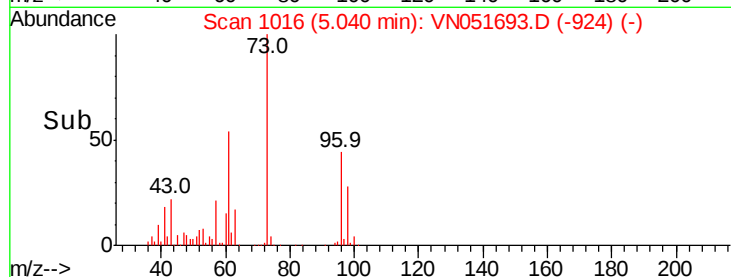
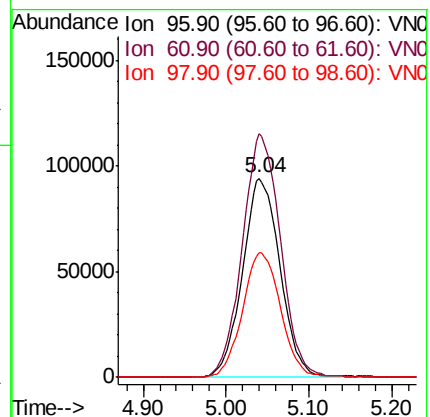
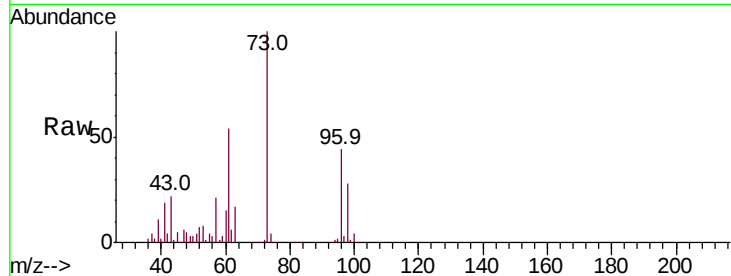
98 62.3 54.6 82.0

Manual Integrations

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10/8/2018 12:50:02 PM



#22

Diisopropyl ether

Concen: 51.299 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion: 45 Resp: 850246

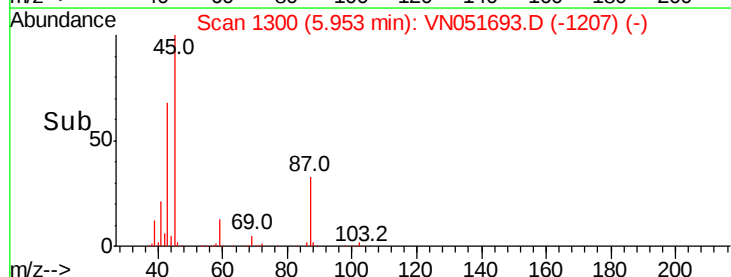
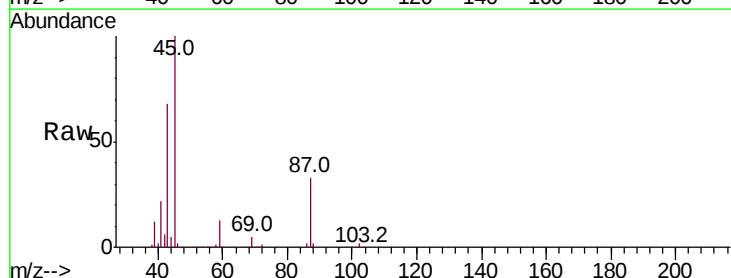
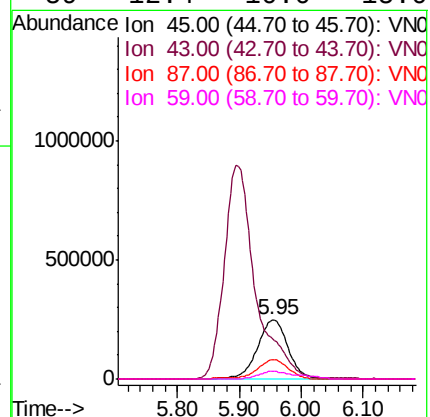
Ion Ratio Lower Upper

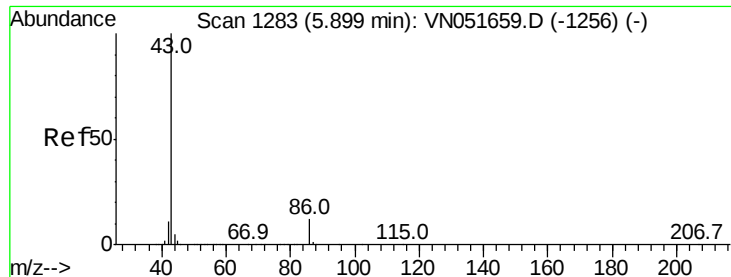
45 100

43 68.0 53.0 79.4

87 32.6 26.4 39.6

59 12.4 10.0 15.0





#23

Vinyl Acetate

Concen: 258.852 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3154606

Ion Ratio Lower Upper

43 100

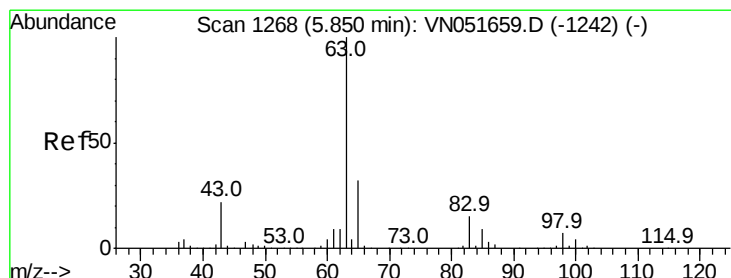
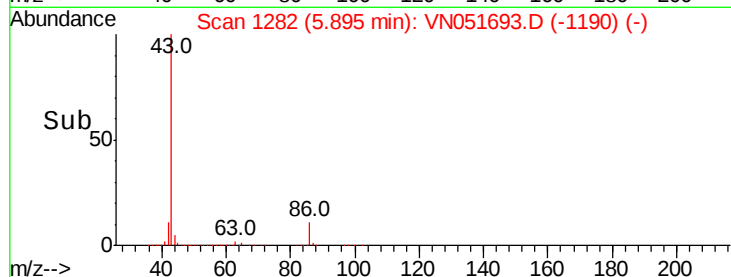
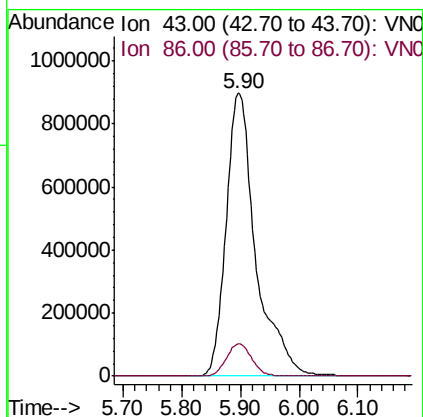
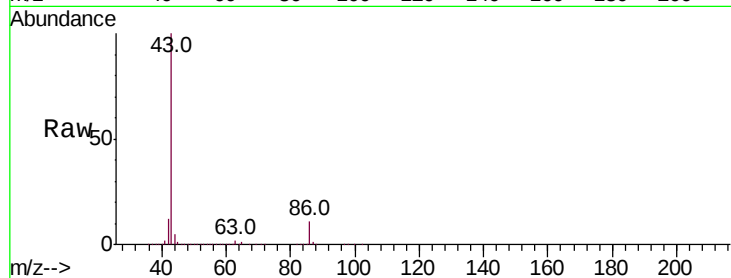
86 11.4 9.3 13.9

Manual Integrations

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MMDadoda

10/8/2018 12:50:02 PM



#24

1,1-Dichloroethane

Concen: 49.286 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

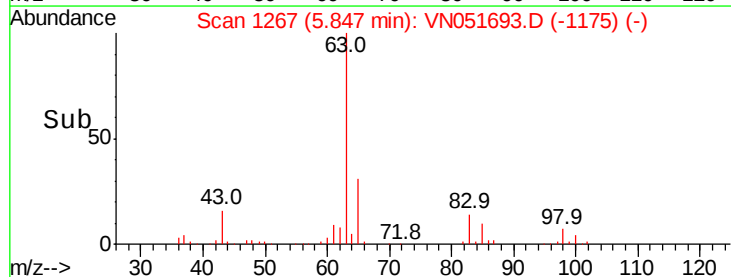
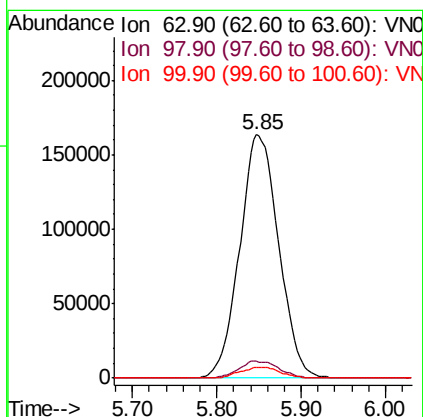
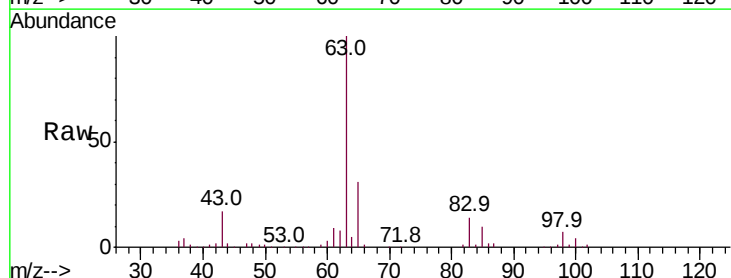
Tgt Ion: 63 Resp: 525365

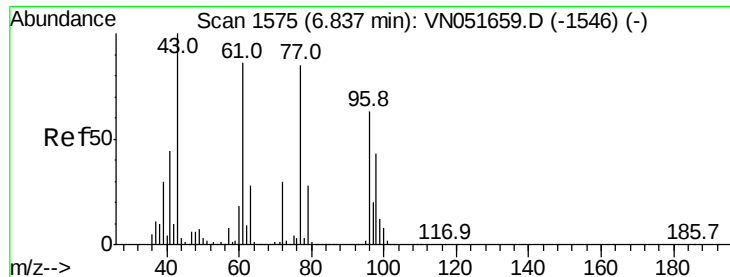
Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.9

100 4.4 2.2 6.6





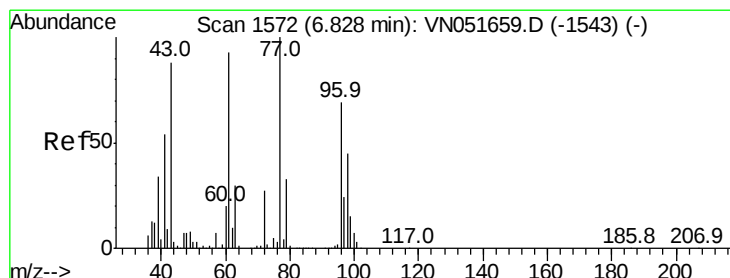
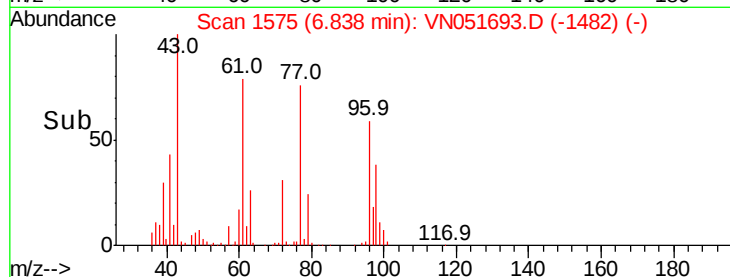
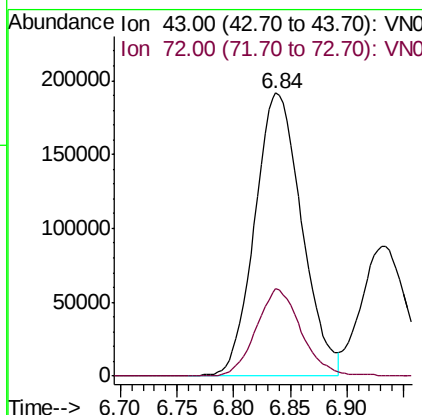
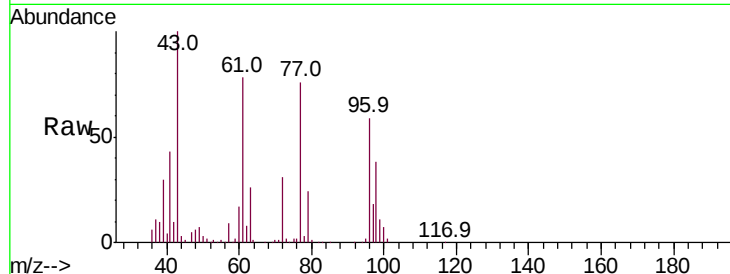
#25
 2-Butanone
 Concen: 264.252 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion: 43 Resp: 548745
 Ion Ratio Lower Upper
 43 100
 72 31.0 24.2 36.2

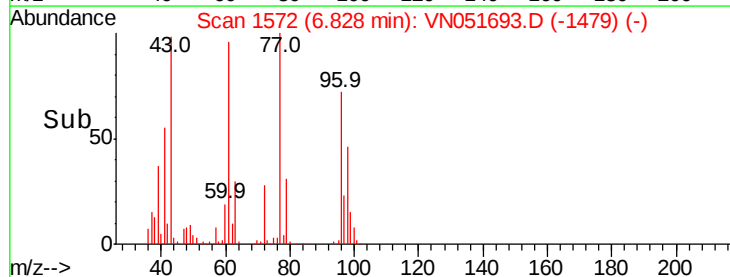
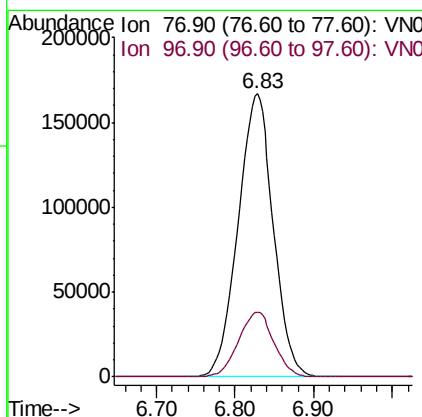
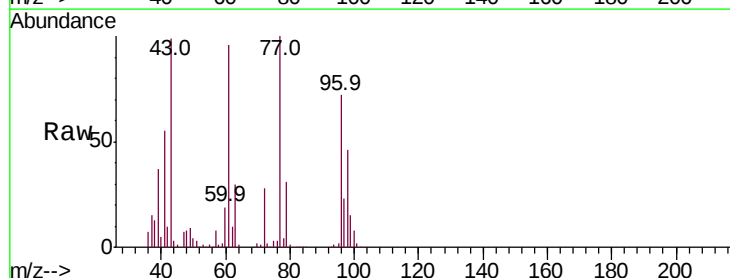
Manual Integrations
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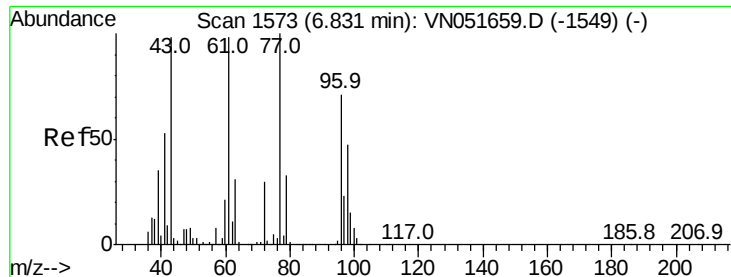
MMDadoda
 10/8/2018 12:50:02 PM



#26
 2,2-Dichloropropane
 Concen: 48.983 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion: 77 Resp: 523248
 Ion Ratio Lower Upper
 77 100
 97 23.1 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 50.129 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

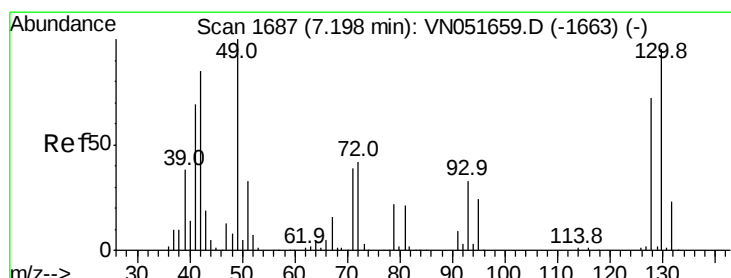
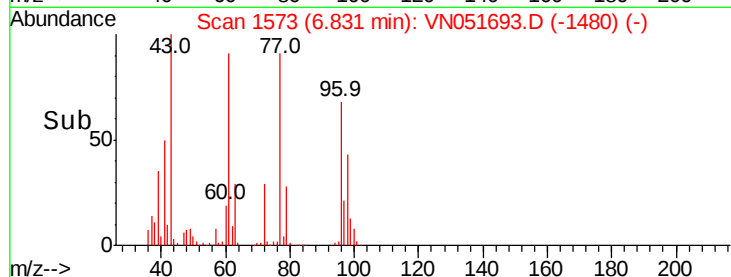
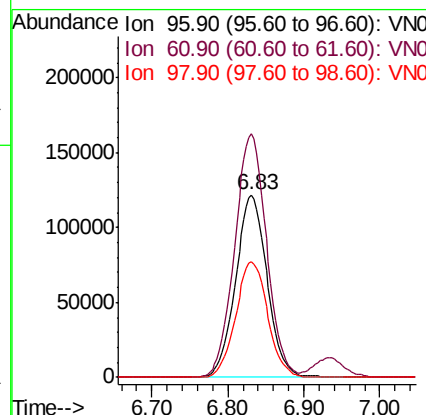
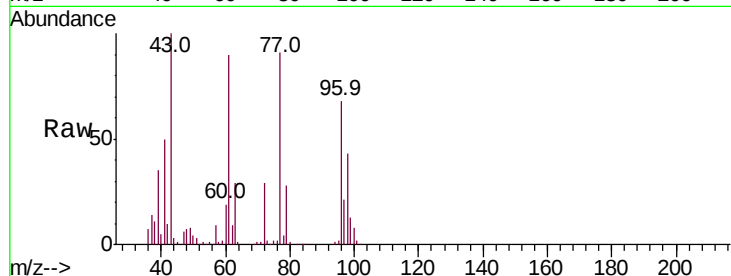
ClientSampleId :

VSTDCCC050

Tot Ion	96	Resp	349594
Ion	Ratio	Lower	Upper
96	100		
61	135.4	0.0	275.4
98	64.6	0.0	129.6

Manual Integrations
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#28

Bromochloromethane

Concen: 51.139 ug/l

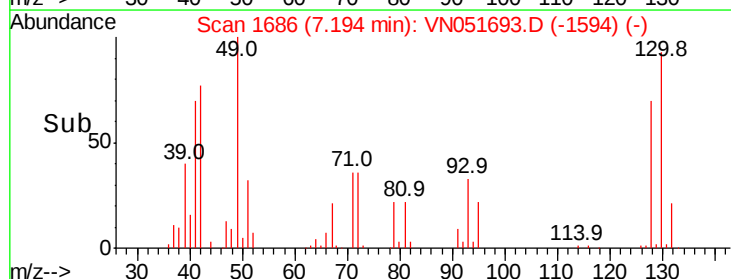
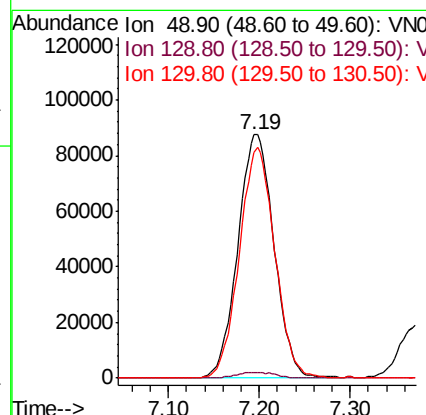
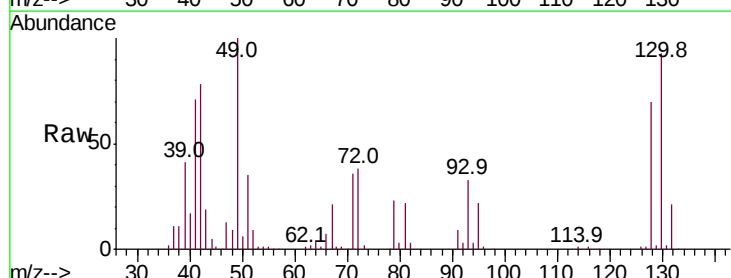
RT: 7.19 min Scan# 1686

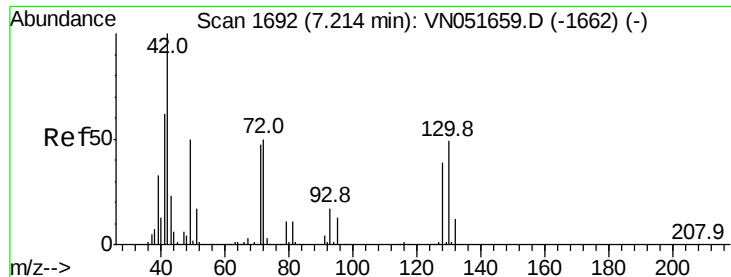
Delta R.T. -0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion	49	Resp	241335
Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.8
130	92.9	75.7	113.5





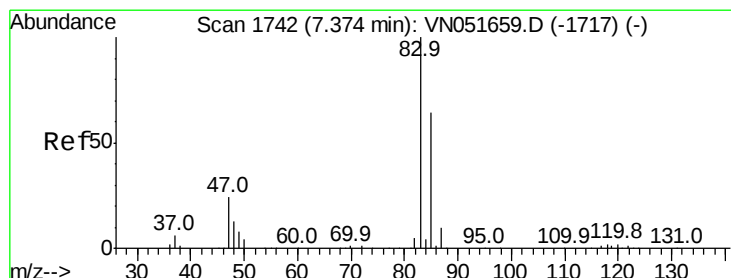
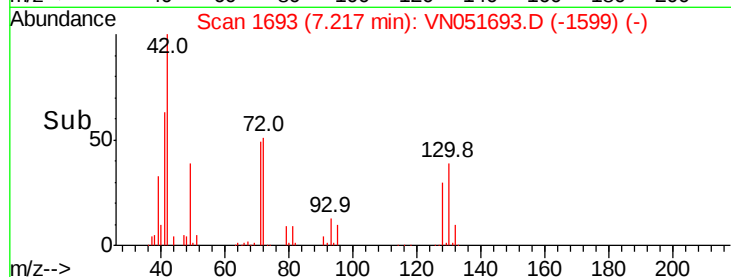
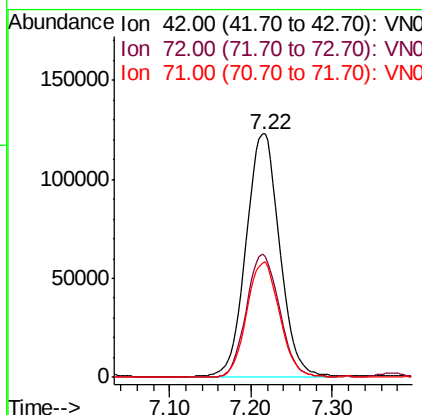
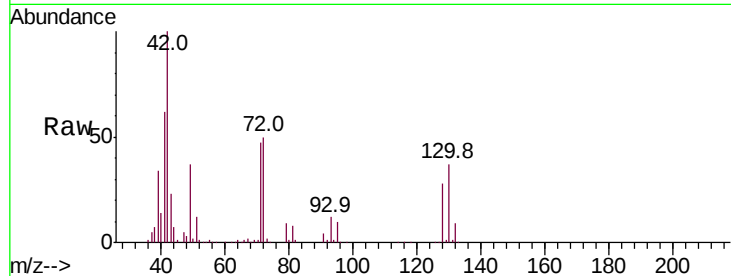
#29
Tetrahydrofuran
Concen: 274.123 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.9	40.1	60.1
71	46.5	38.0	57.0

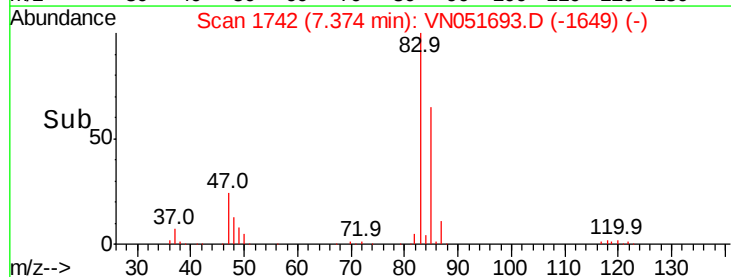
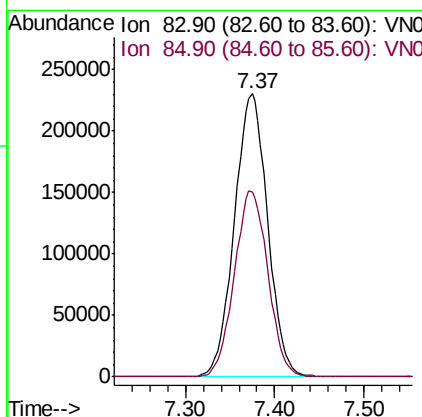
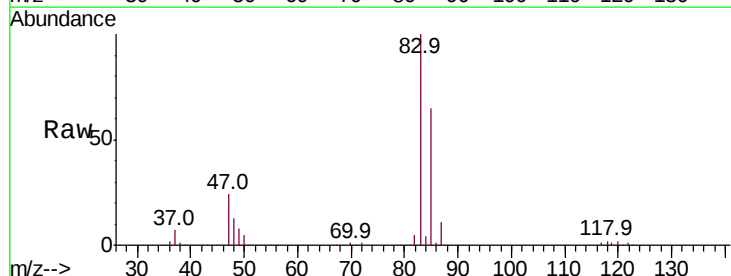
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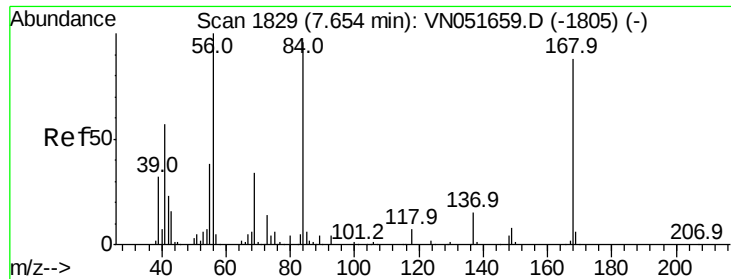
MMDadoda
10/8/2018 12:50:02 PM



#30
Chloroform
Concen: 49.725 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.6	77.4





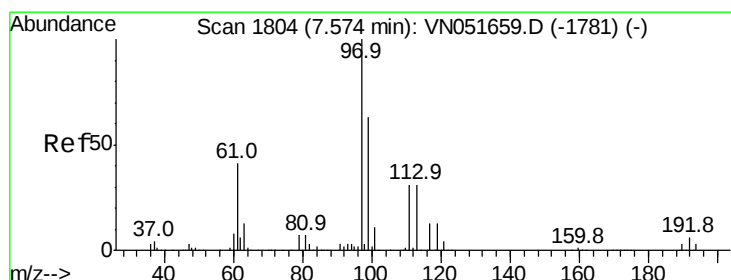
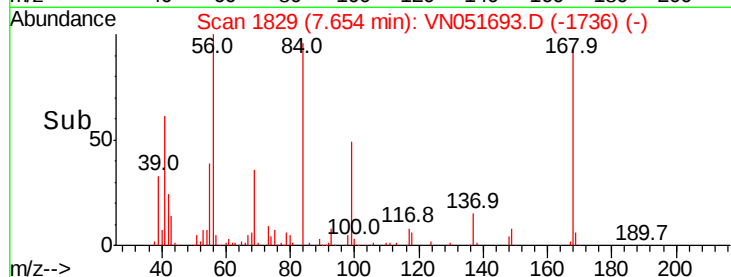
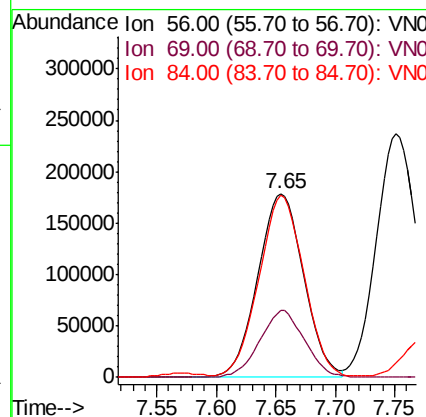
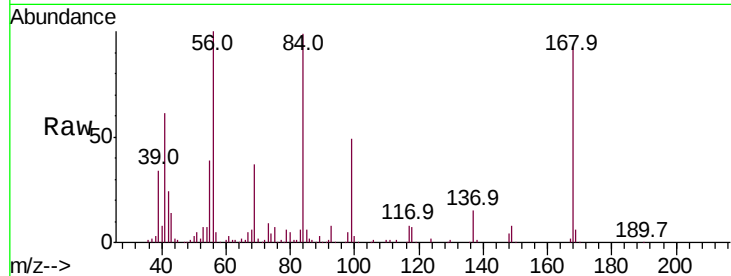
#31
Cyclohexane
Concen: 48.813 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.5	27.5	41.3
84	97.2	76.7	115.1

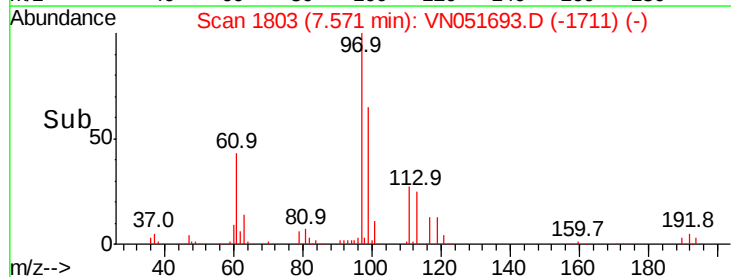
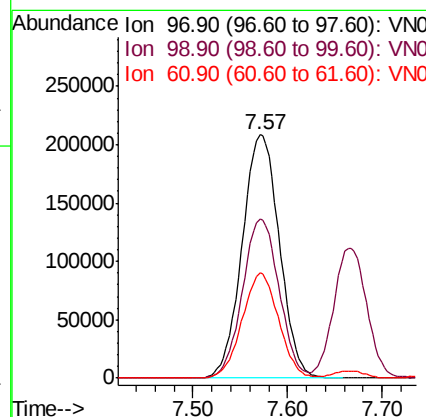
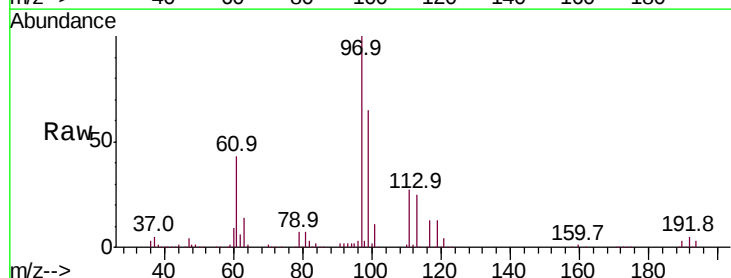
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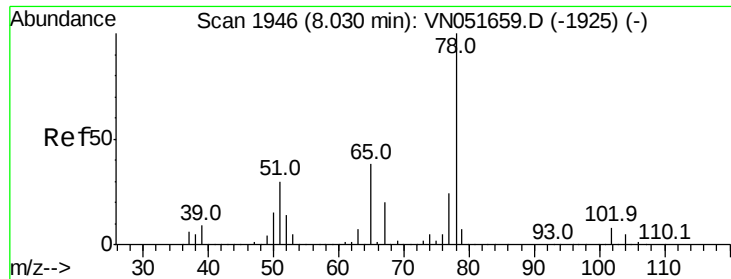
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 49.060 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.9	77.9
61	42.3	33.4	50.0





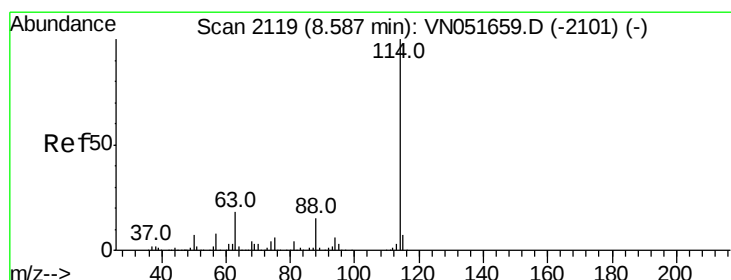
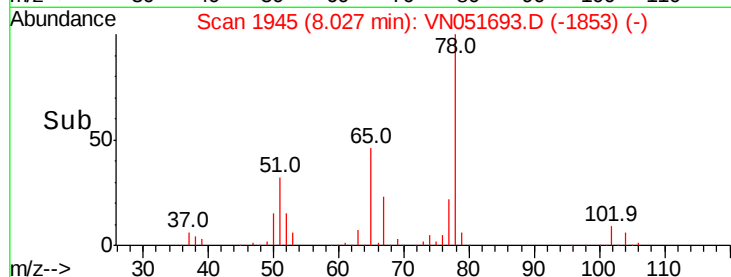
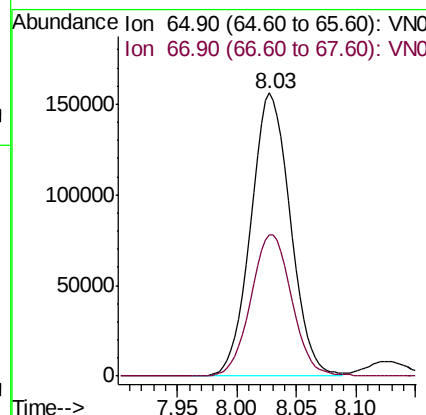
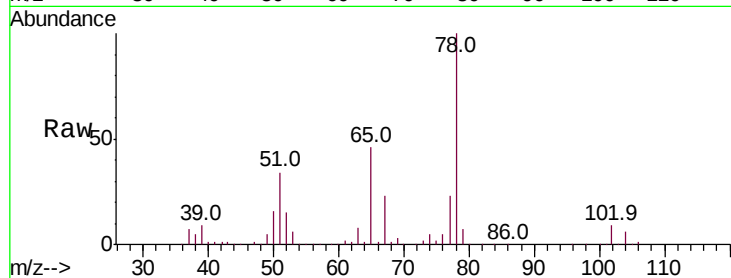
#33
 1,2-Dichloroethane-d4
 Concen: 49.060 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.8	0.0	103.6	

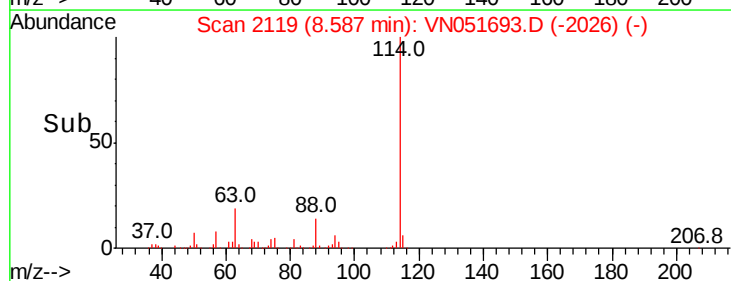
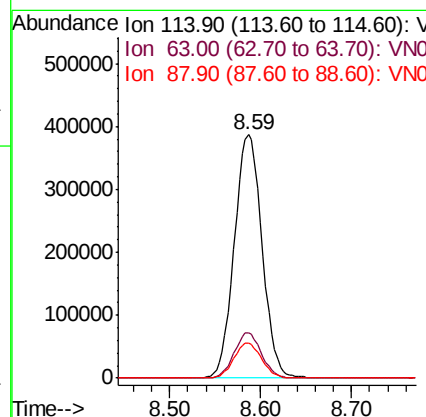
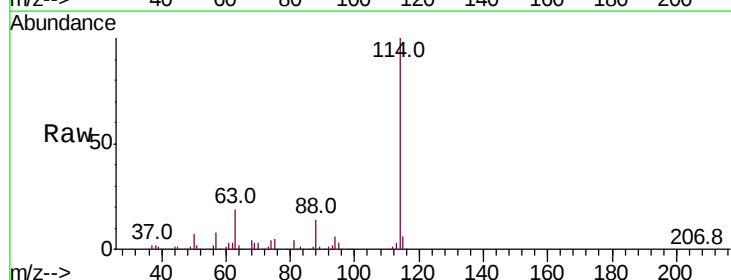
Manual Integrations
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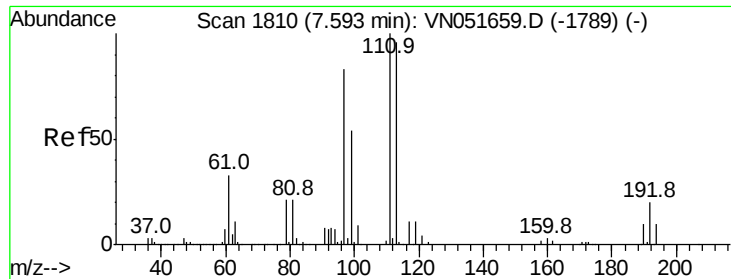
MMDadoda
 10/8/2018 12:50:02 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.8	0.0	36.2	
88	14.5	0.0	30.2	





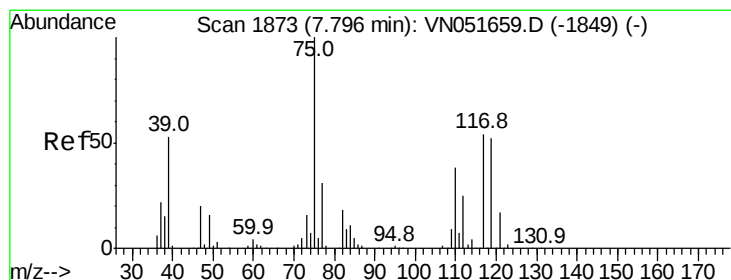
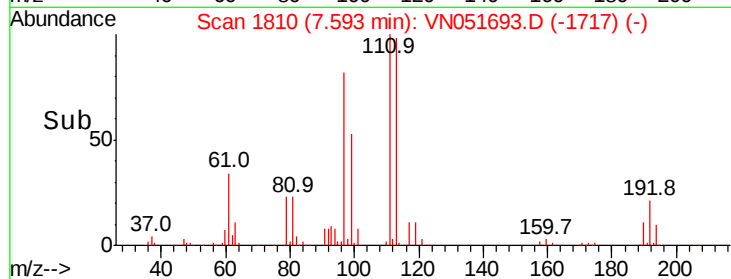
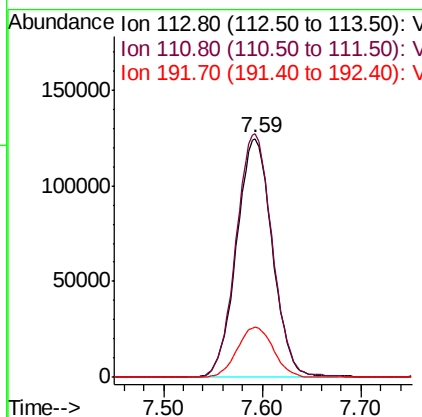
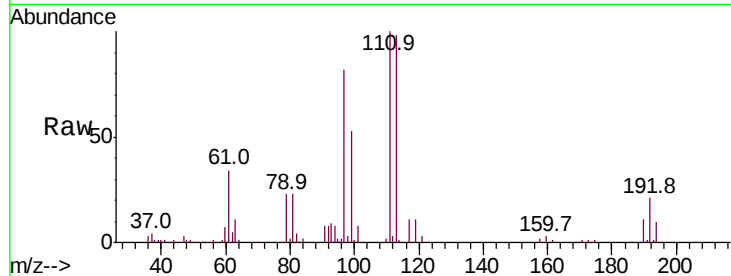
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.2	81.8	122.8	
192	21.2	16.5	24.7	

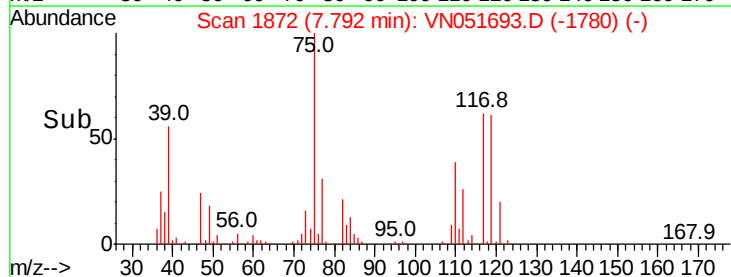
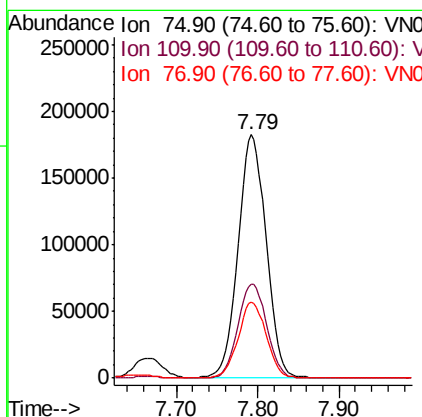
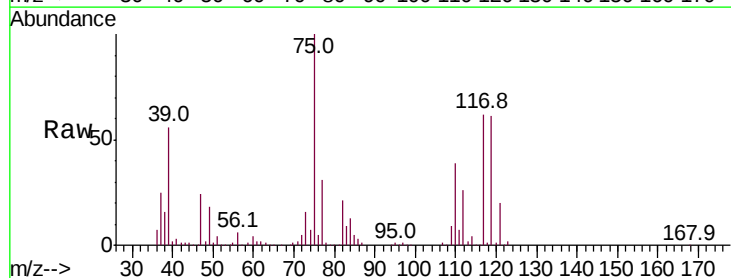
Manual Integrations
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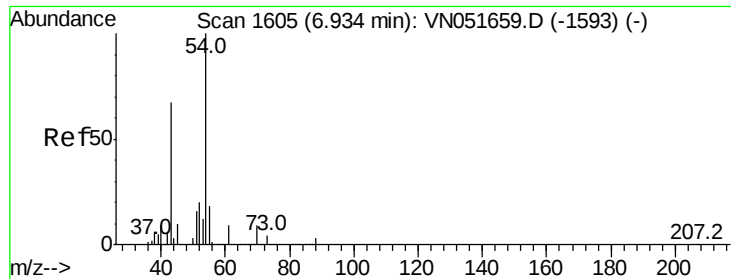
MMDadoda
 10/8/2018 12:50:02 PM



#36
 1,1-Dichloropropene
 Concen: 50.560 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	39.4	19.3	57.8	
77	31.4	24.7	37.1	





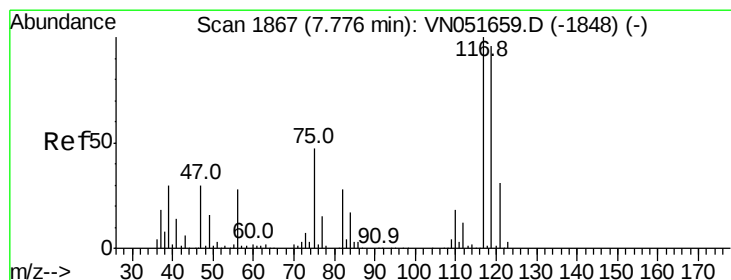
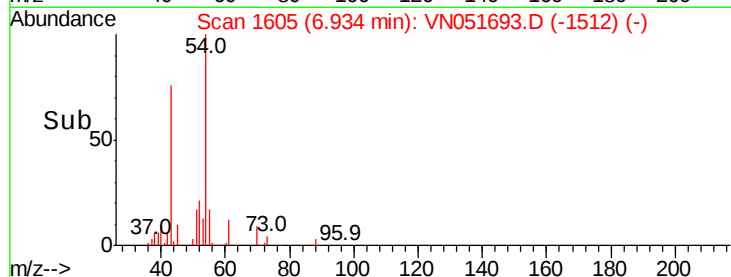
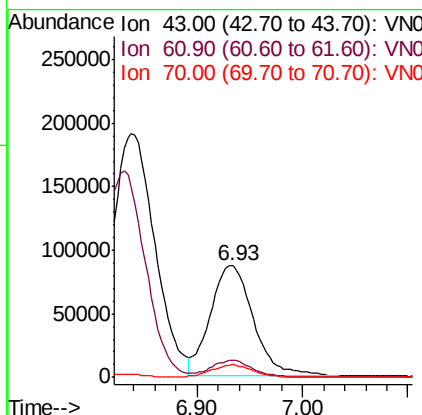
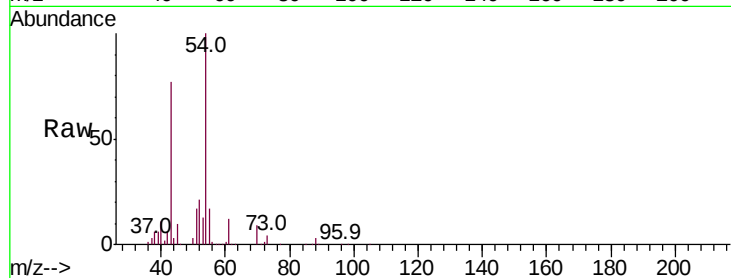
#37
Ethyl Acetate
Concen: 55.052 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.8	17.6
70	10.5	8.7	13.1

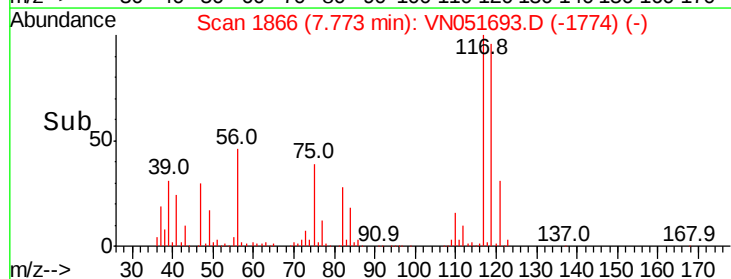
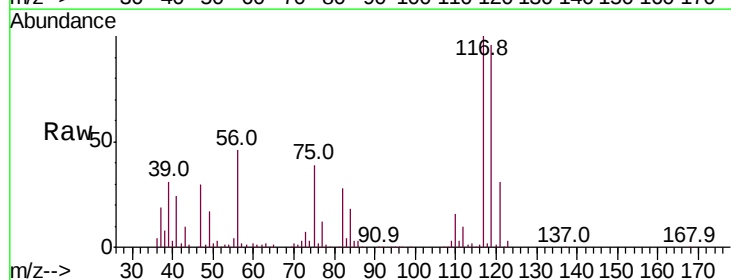
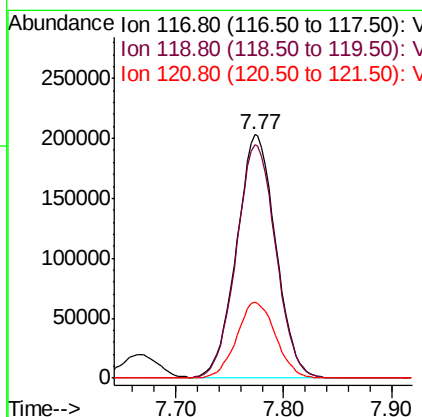
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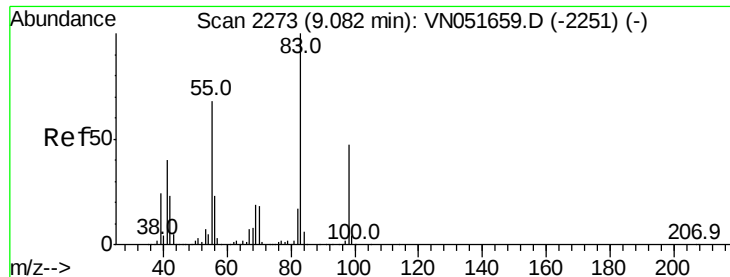
MMDadoda
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#38
Carbon Tetrachloride
Concen: 49.585 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.0	115.6
121	31.0	25.0	37.6





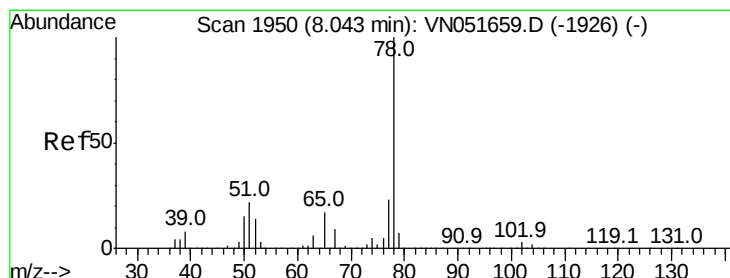
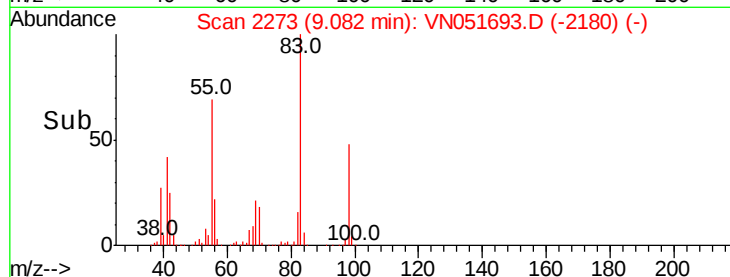
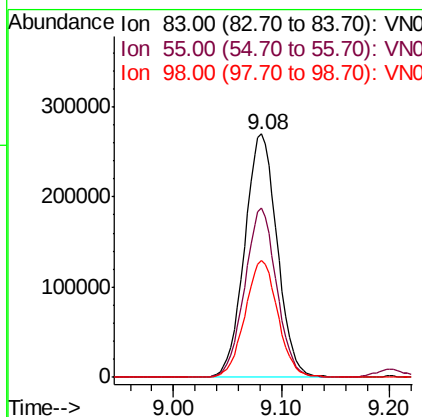
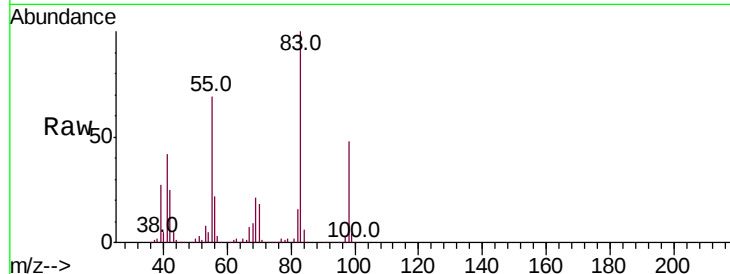
#39
Methvlcvclohexane
Concen: 52.582 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.3	54.3	81.5
98	47.9	37.4	56.2

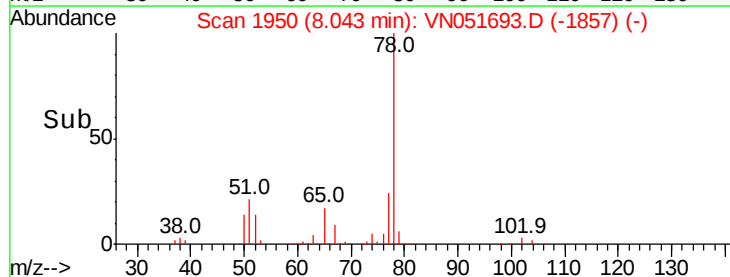
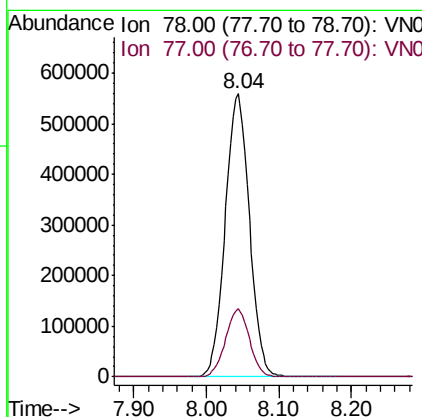
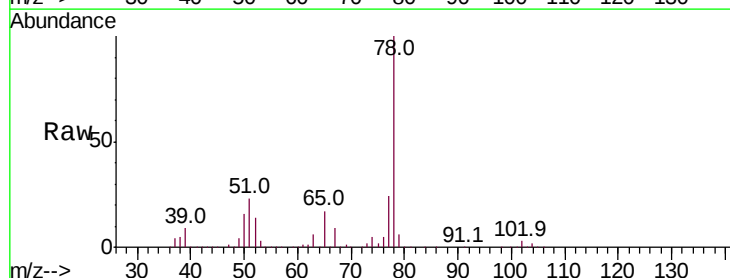
Manual Integrations
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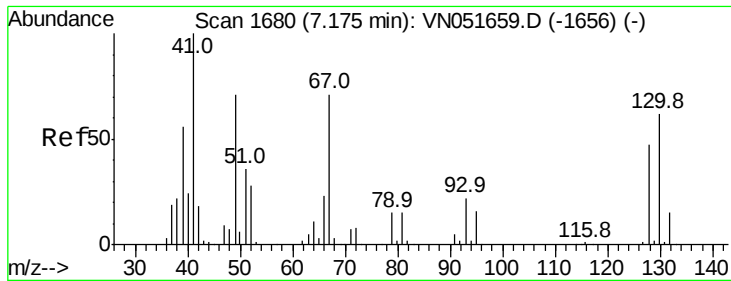
MMDadoda
10/8/2018 12:50:02 PM



#40
Benzene
Concen: 51.119 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.5	27.7





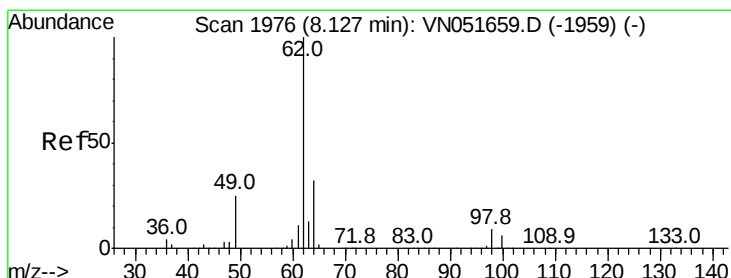
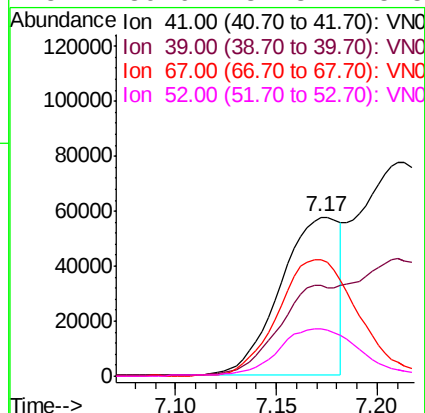
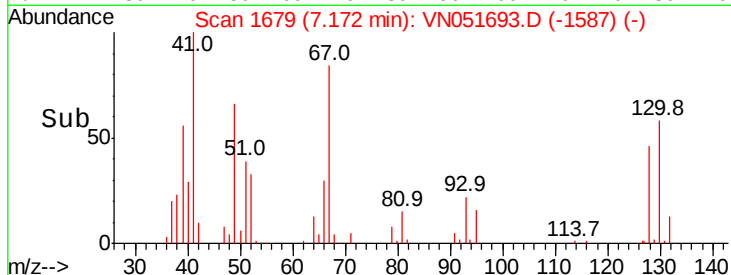
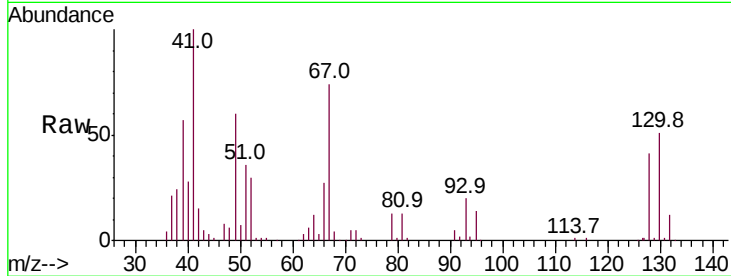
#41
Methacrylonitrile
Concen: 50.940 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.1	53.9	80.9#
67	99.7	78.1	117.1
52	39.6	32.3	48.5

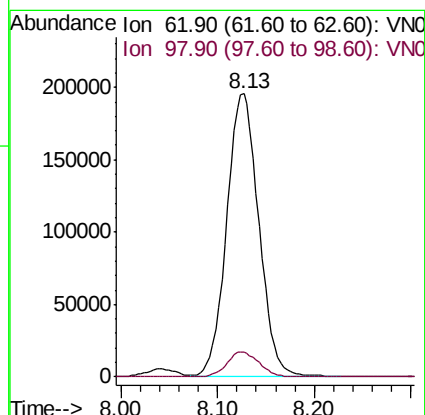
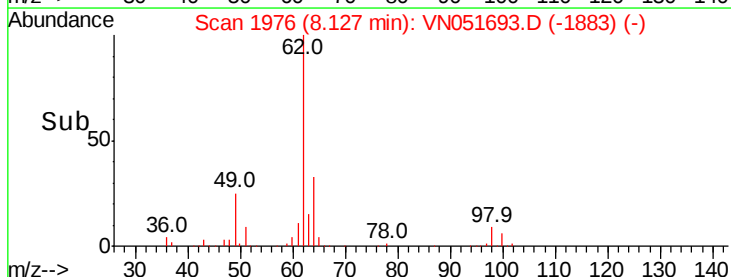
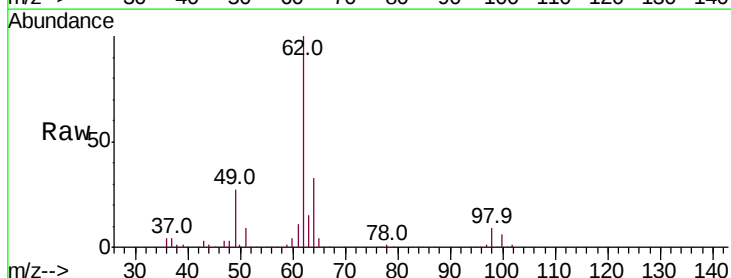
Manual Integrations
APPROVED

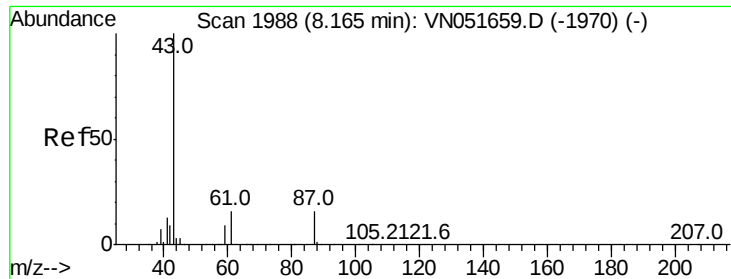
MMDadoda
10/8/2018 12:50:02 PM



#42
1,2-Dichloroethane
Concen: 52.486 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.4





#43

Isopropyl Acetate

Concen: 55.573 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

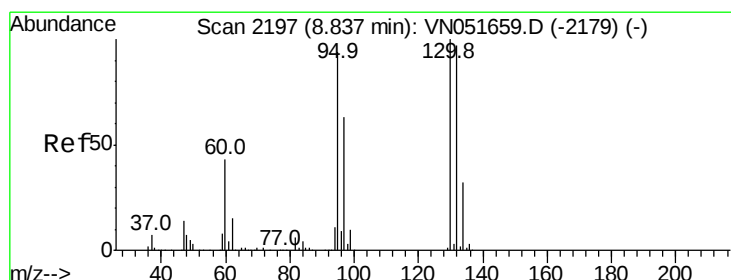
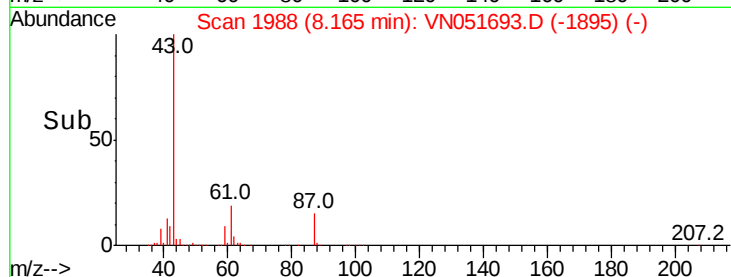
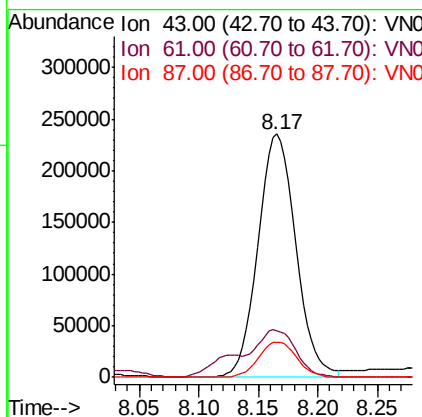
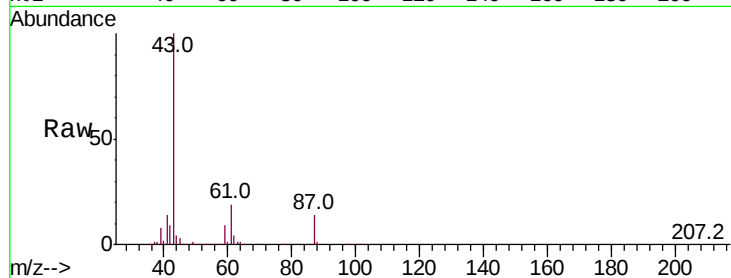
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	517941
Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.8	23.6
87	14.6	12.6	19.0

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#44

Trichloroethene

Concen: 50.743 ug/l

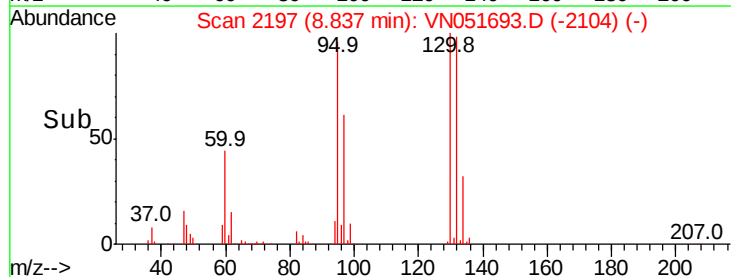
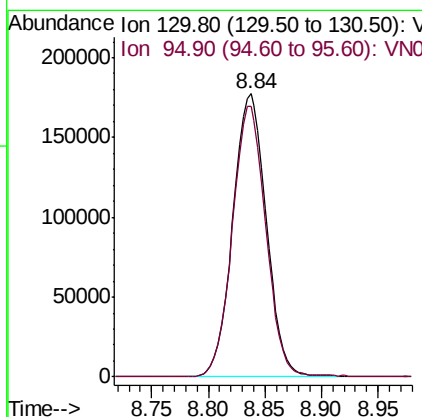
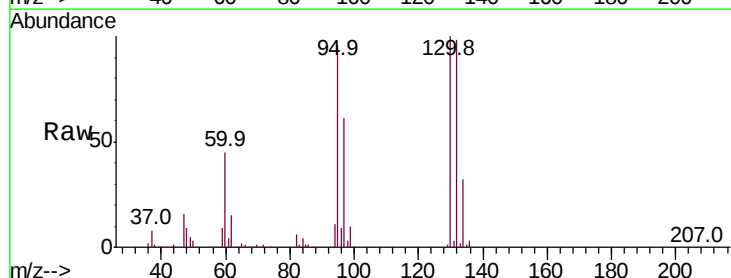
RT: 8.84 min Scan# 2197

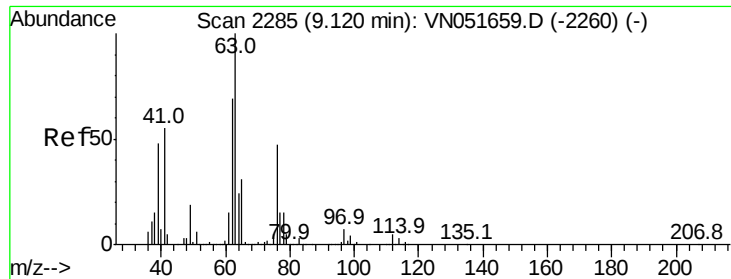
Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion:	130	Resp:	366088
Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	188.0





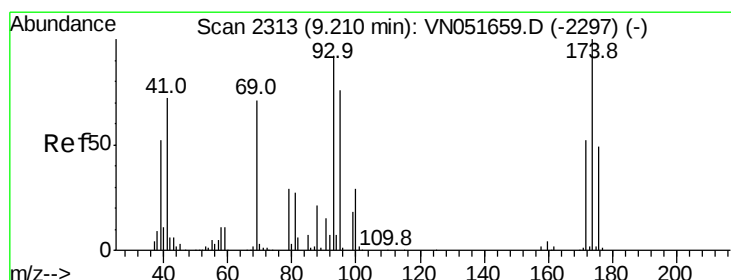
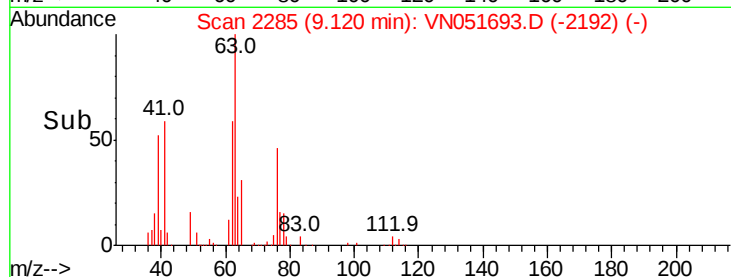
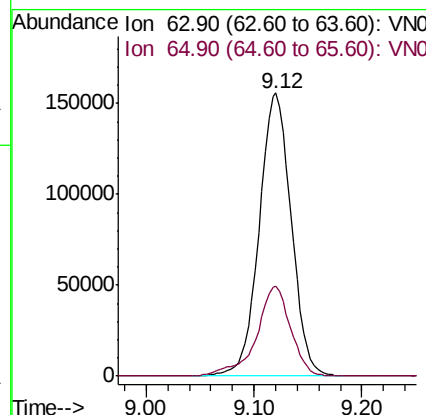
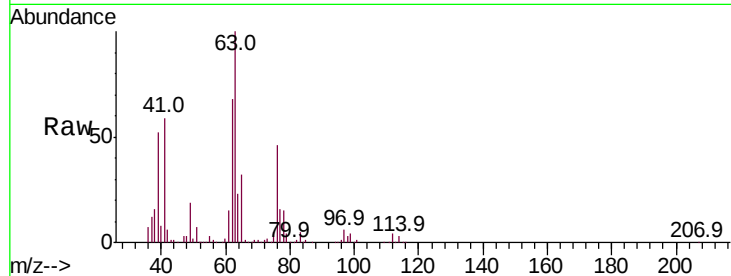
#45
 1,2-Dichloropropane
 Concen: 51.045 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.0	37.4

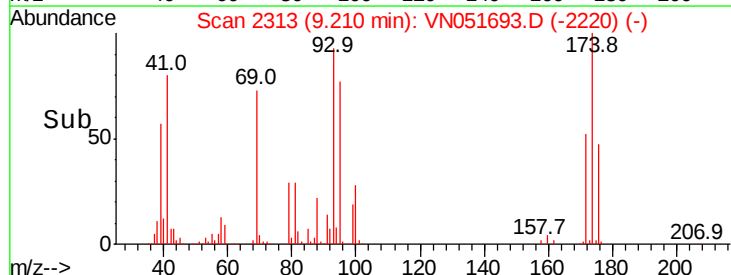
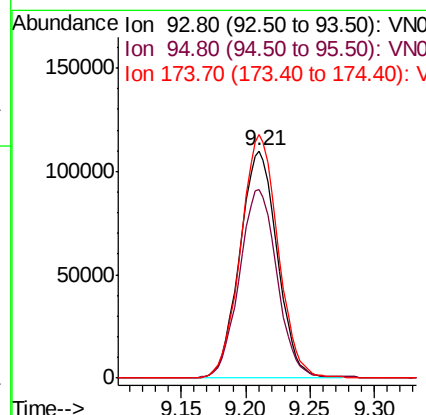
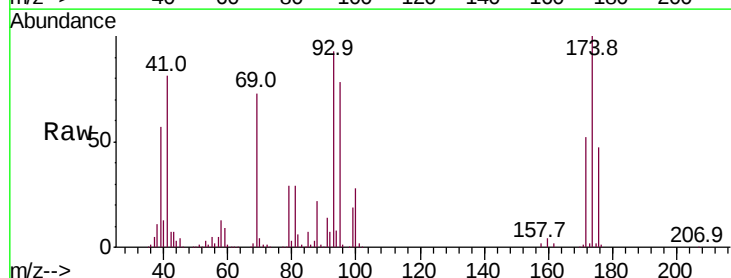
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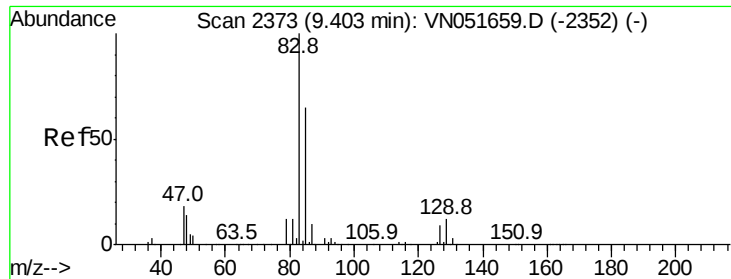
MMDadoda
 10/8/2018 12:50:02 PM



#46
 Dibromomethane
 Concen: 51.051 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	66.6	100.0
174	107.0	85.9	128.9





#47

Bromodichloromethane

Concen: 50.943 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

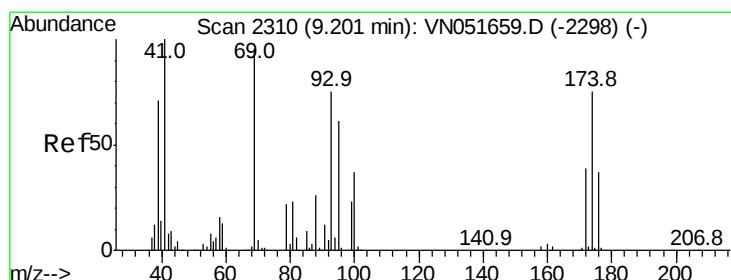
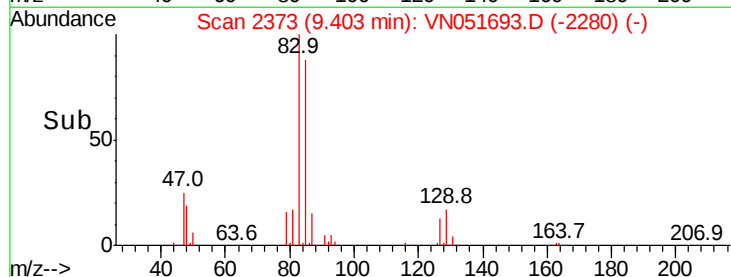
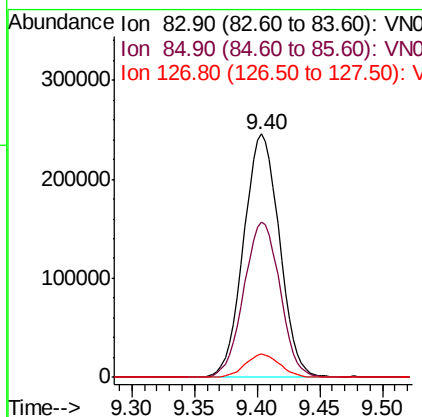
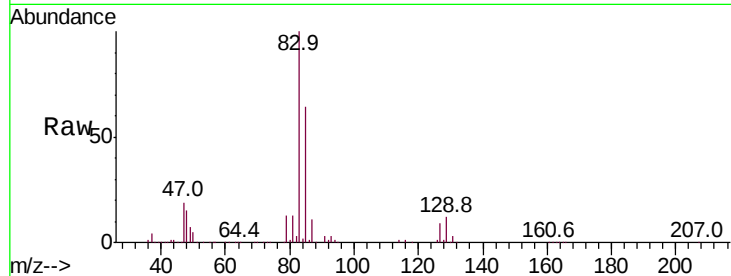
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	489677
Ion Ratio	Lower	Upper	
83	100		
85	64.0	51.6	77.4
127	9.5	7.3	10.9

Manual Integrations
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MMDadoda
10/8/2018 12:50:02 PM



#48

Methyl methacrylate

Concen: 56.422 ug/l

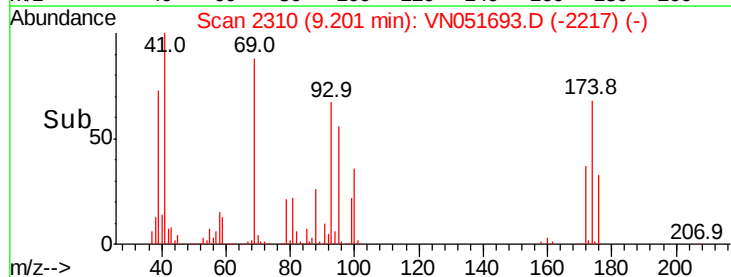
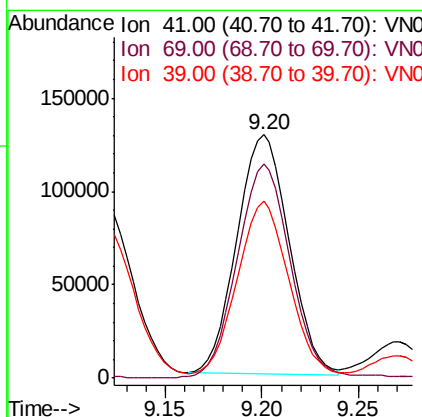
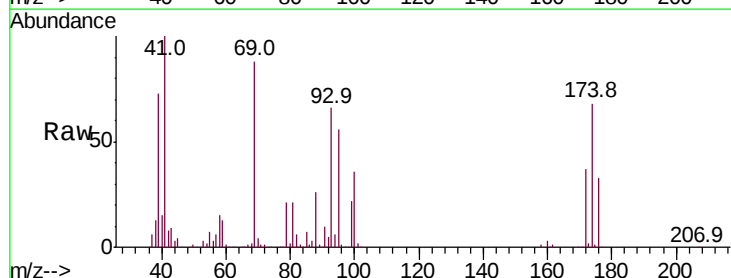
RT: 9.20 min Scan# 2310

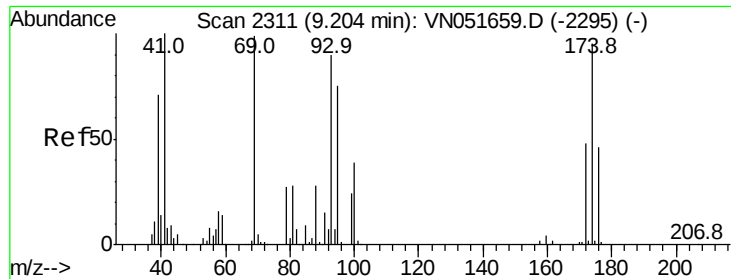
Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion:	41	Resp:	240289
Ion Ratio	Lower	Upper	
41	100		
69	91.3	78.6	118.0
39	73.6	59.2	88.8





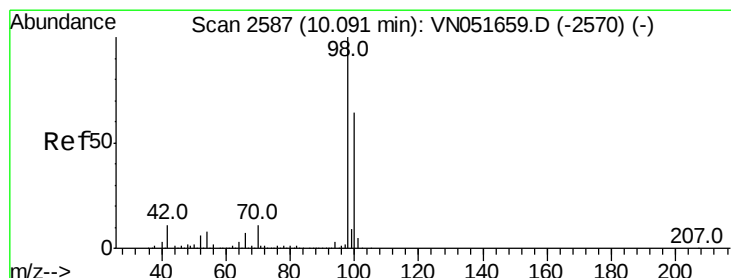
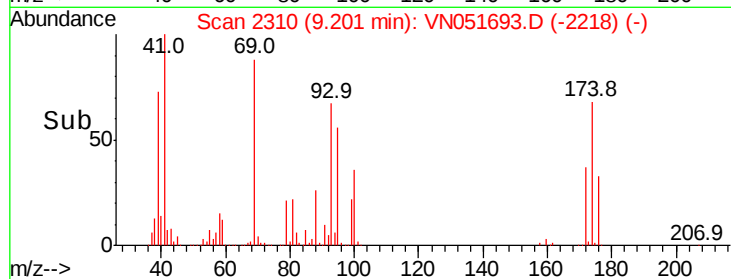
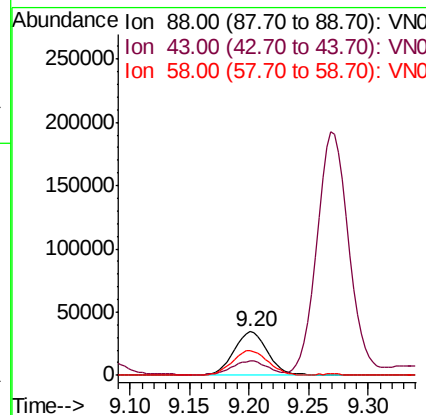
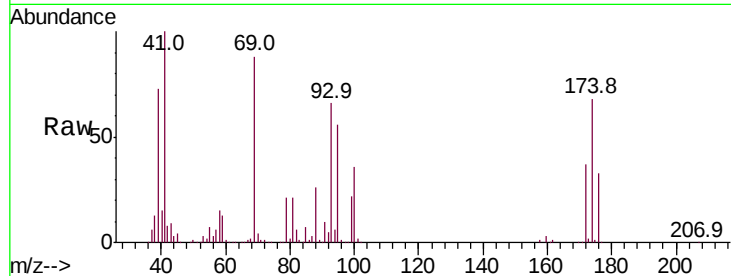
#49
1,4-Dioxane
Concen: 1077.346 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	68798
Ion	Ratio	Lower	Upper
88	100		
43	31.7	24.5	36.7
58	59.3	47.6	71.4

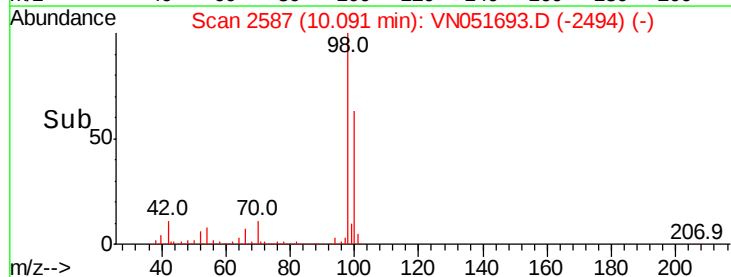
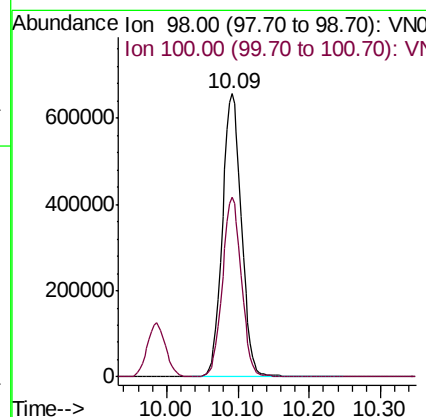
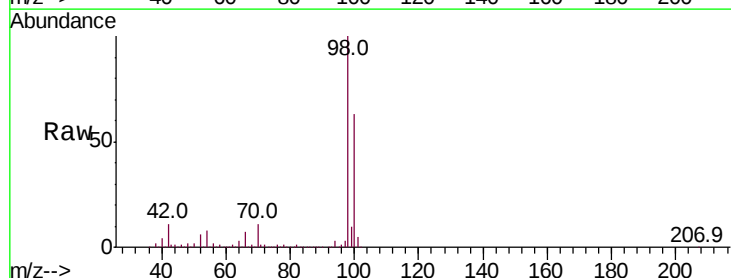
Manual Integrations
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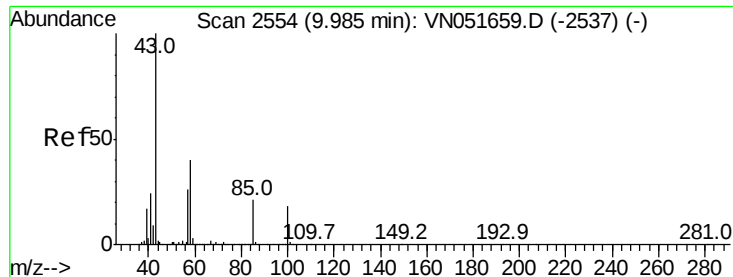
MMDadoda
10/8/2018 12:50:02 PM



#50
Toluene-d8
Concen: 1077.346 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	98	Resp	1213384
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 283.614 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1339434

Ion Ratio Lower Upper

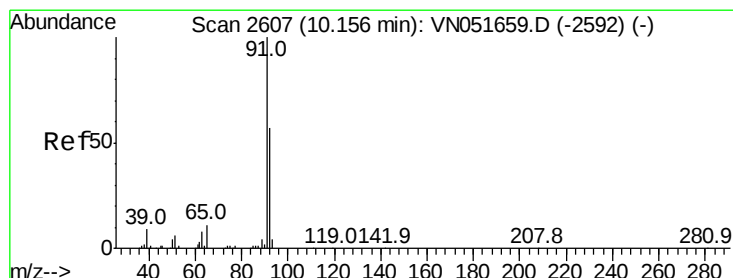
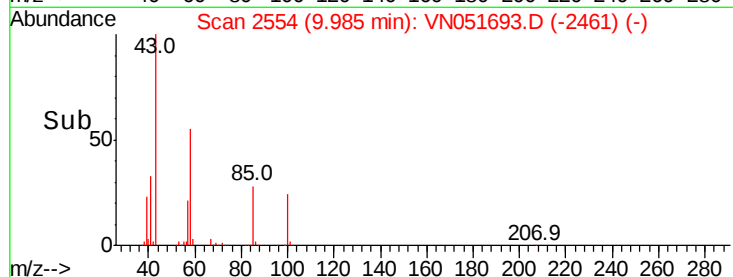
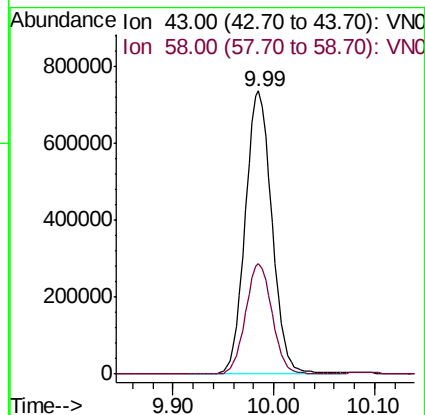
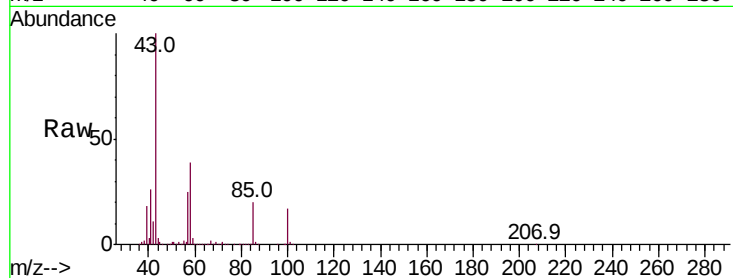
43 100

58 39.1 32.2 48.2

Manual Integrations
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#52

Toluene

Concen: 52.551 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051693.D

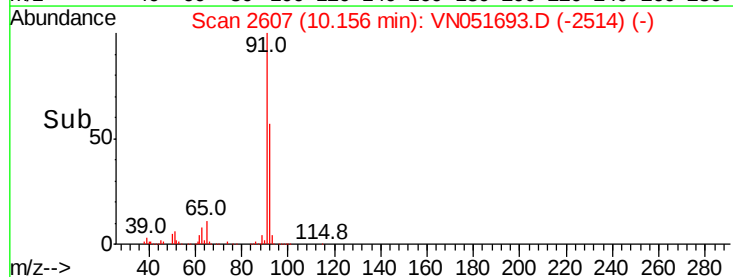
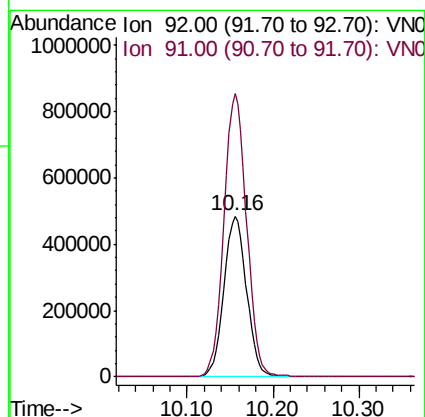
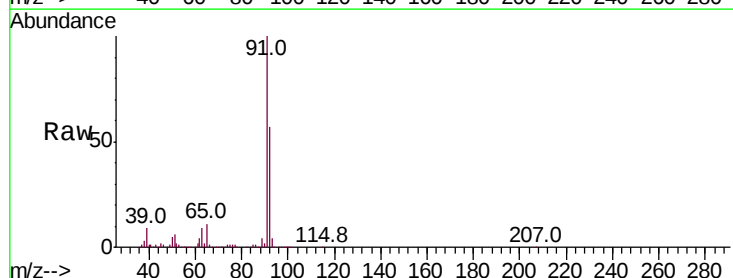
Acq: 5 Oct 2018 17:53

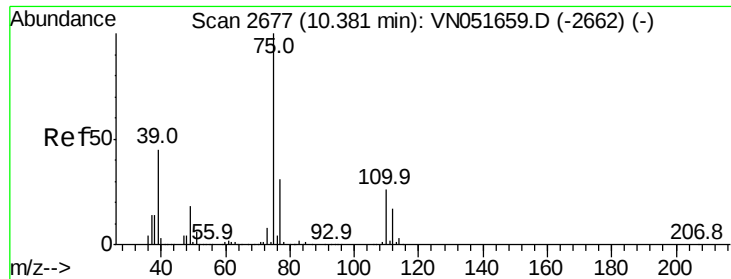
Tgt Ion: 92 Resp: 888078

Ion Ratio Lower Upper

92 100

91 176.6 140.3 210.5





#53

t-1,3-Dichloropropene

Concen: 51.309 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

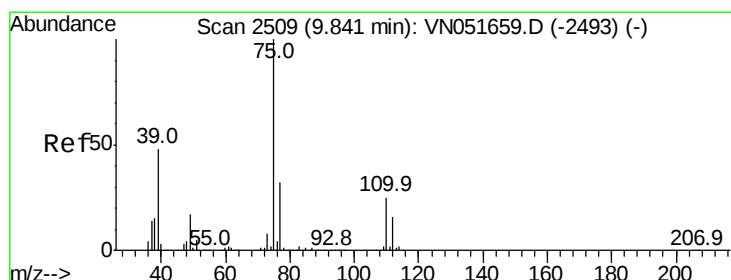
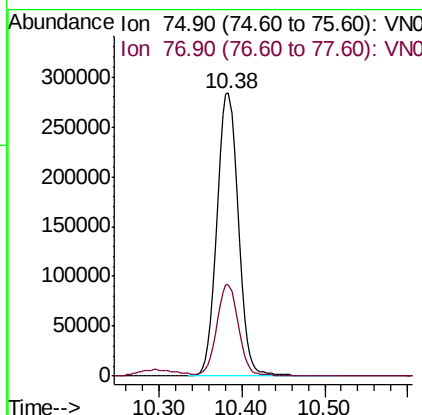
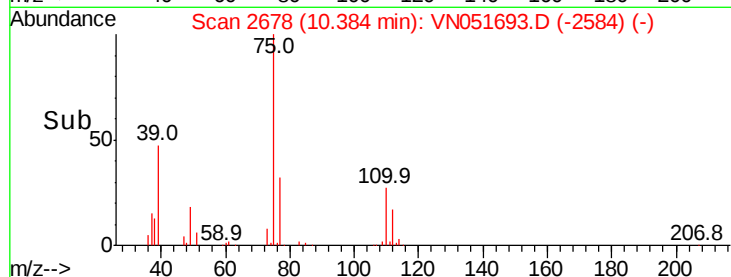
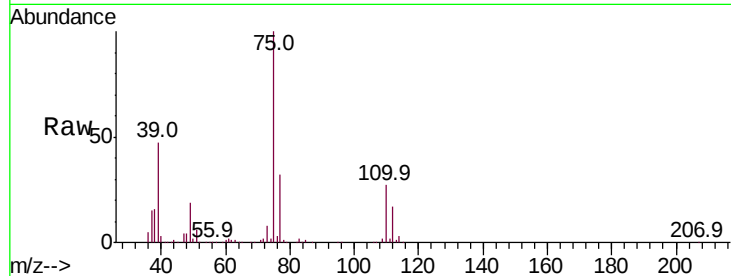
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 508913

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.5	38.3

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 50.439 ug/l

RT: 9.84 min Scan# 2509

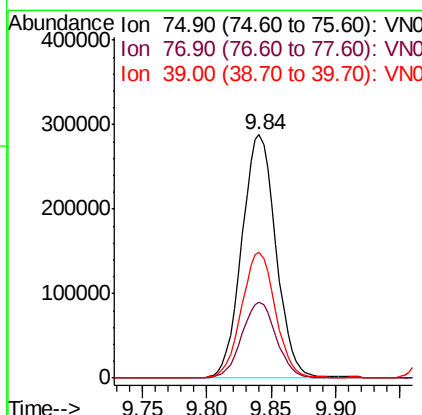
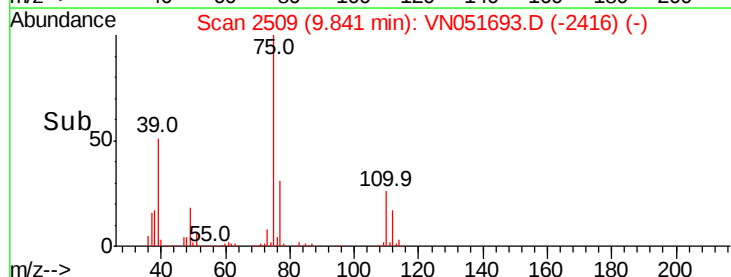
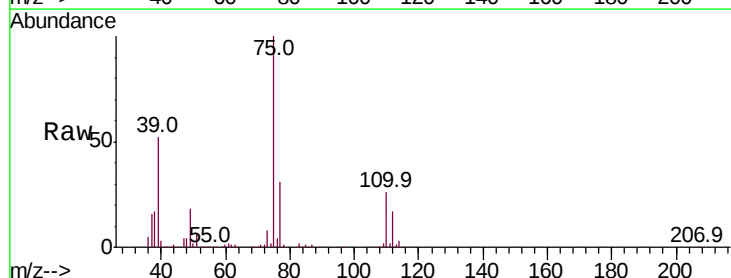
Delta R.T. 0.00 min

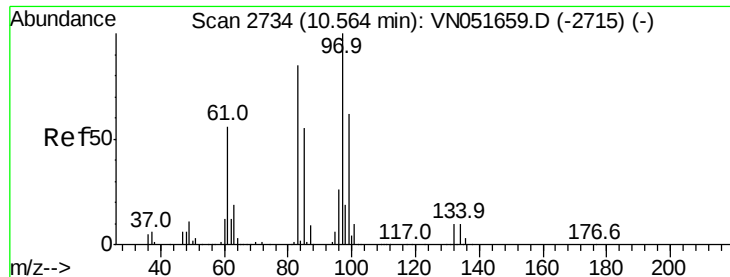
Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion: 75 Resp: 531258

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.7	38.5
39	51.4	38.1	57.1





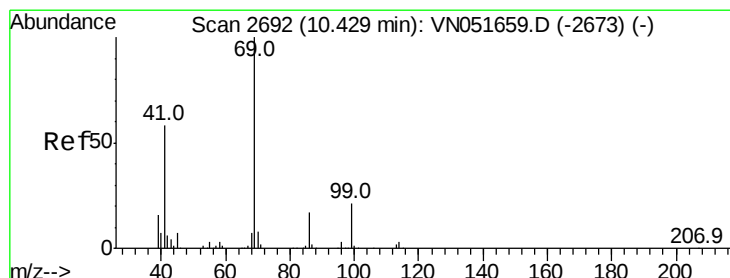
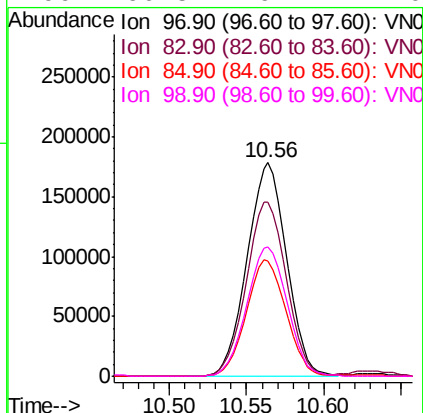
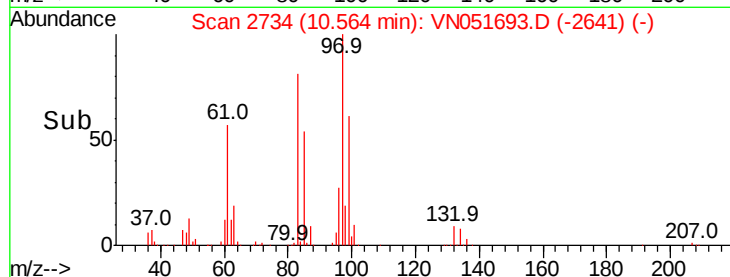
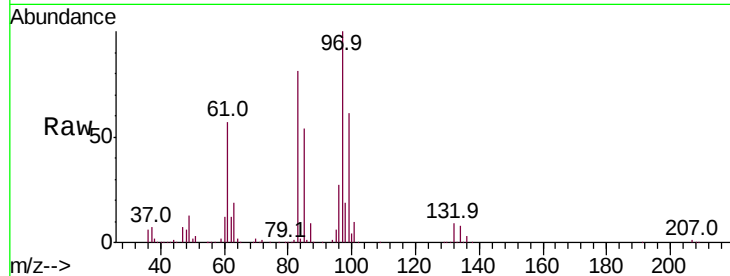
#55
 1,1,2-Trichloroethane
 Concen: 52.582 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	97	Resp	316550
Ion	Ratio	Lower	Upper
97	100		
83	81.3	68.1	102.1
85	53.9	43.6	65.4
99	60.5	49.4	74.0

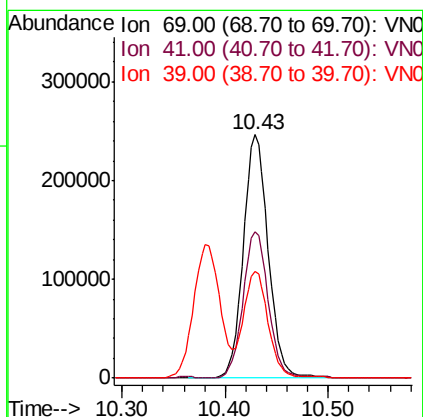
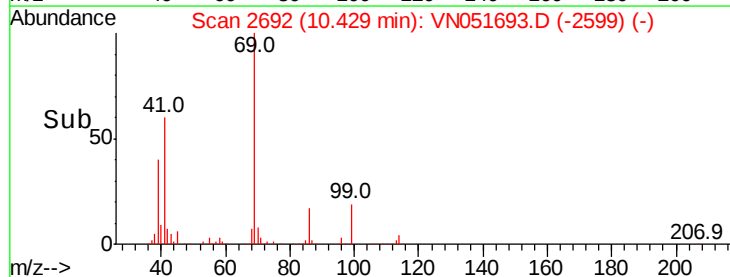
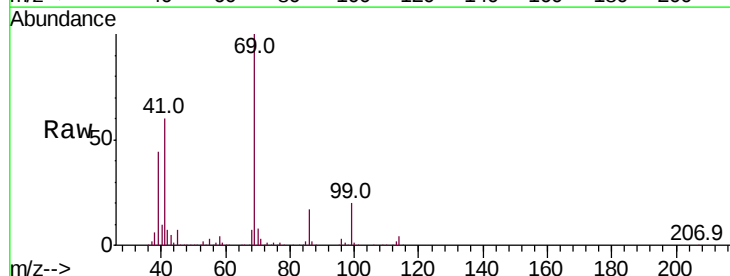
Manual Integrations
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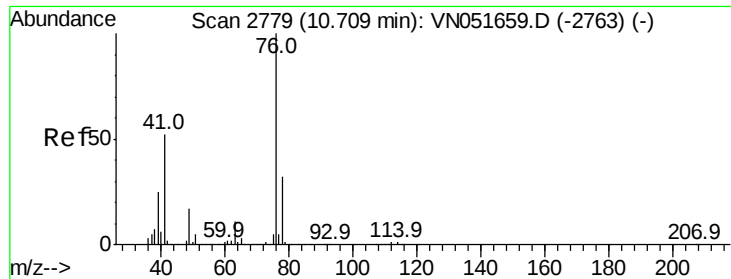
MMDadoda
 10/8/2018 12:50:02 PM



#56
 Ethyl methacrylate
 Concen: 54.320 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	69	Resp	413545
Ion	Ratio	Lower	Upper
69	100		
41	60.5	46.4	69.6
39	43.5	32.4	48.6





#57

1,3-Dichloropropane

Concen: 53.102 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 505964

Ion Ratio Lower Upper

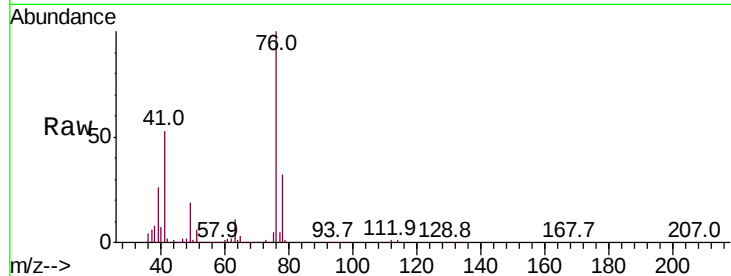
76 100

78 32.0 26.0 39.0

Manual Integrations
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10/8/2018 12:50:02 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

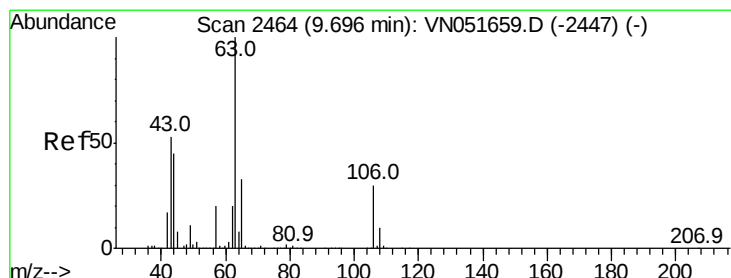
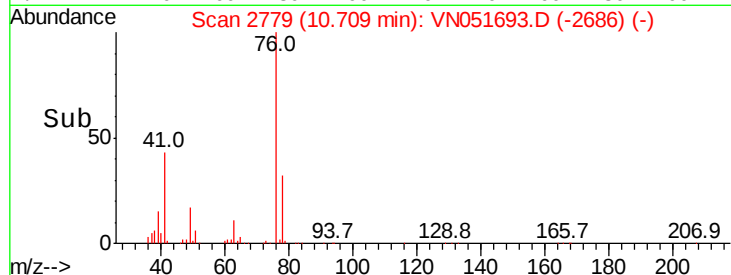
300000

200000

100000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 272.716 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051693.D

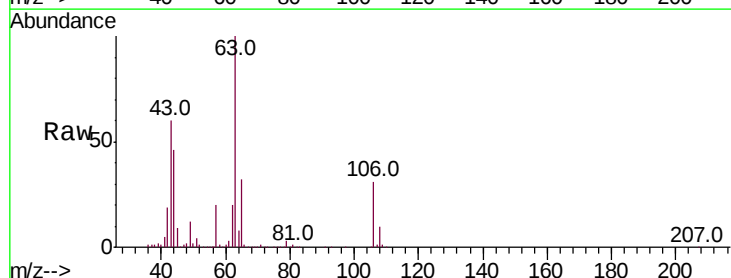
Acq: 5 Oct 2018 17:53

Tgt Ion: 63 Resp: 859275

Ion Ratio Lower Upper

63 100

106 30.5 24.3 36.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

500000

400000

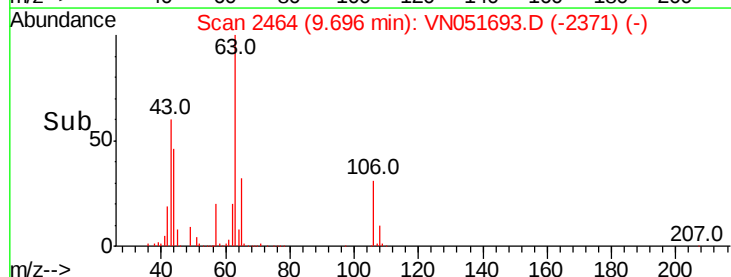
300000

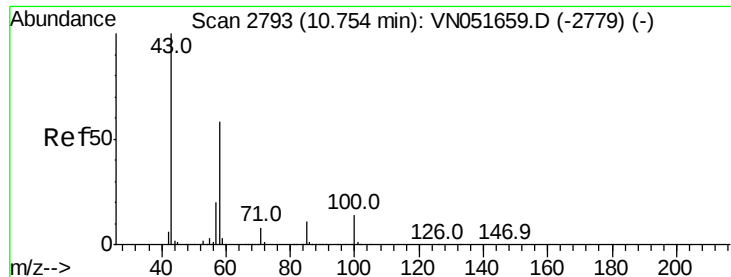
200000

100000

0

Time--> 9.60 9.70 9.80





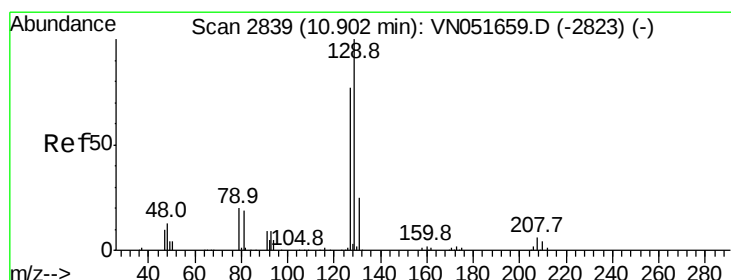
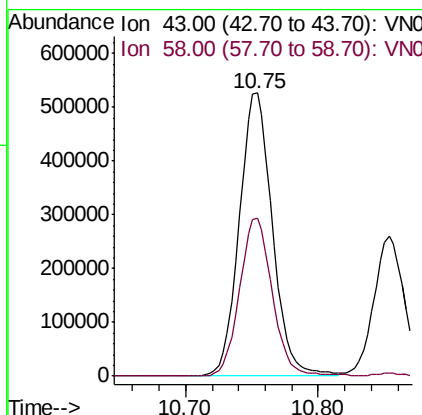
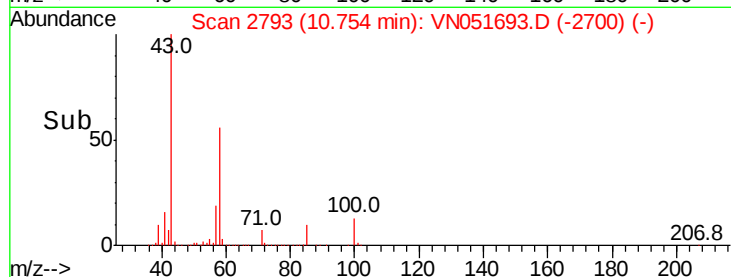
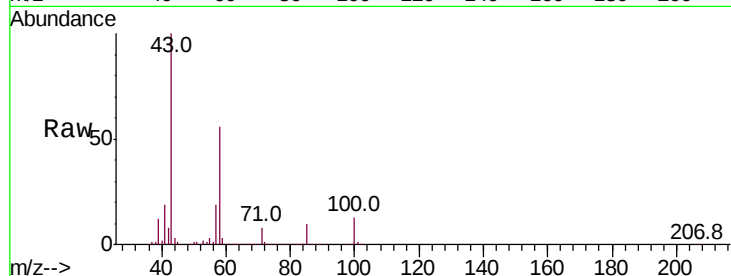
#59
2-Hexanone
Concen: 283.017 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 907738
Ion Ratio Lower Upper
43 100
58 55.6 28.8 86.4

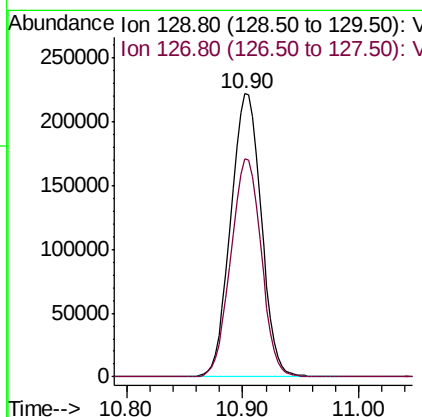
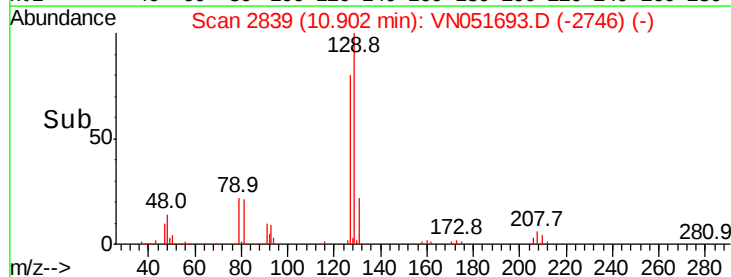
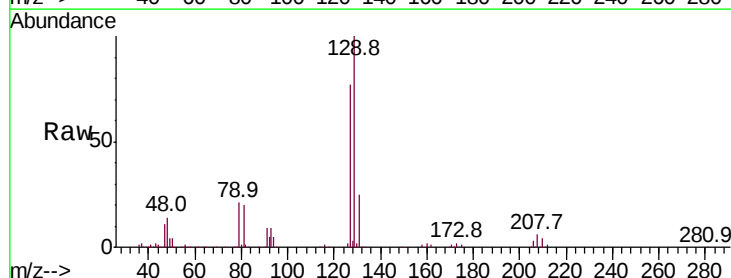
Manual Integrations
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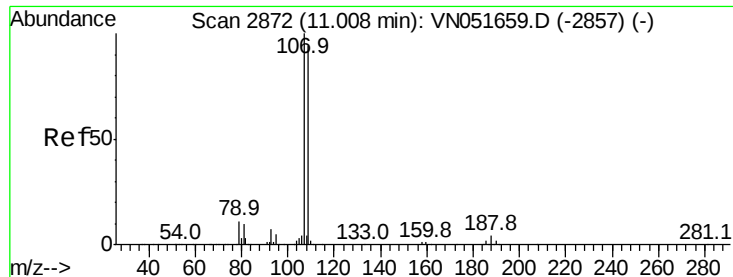
MMDadoda
10/8/2018 12:50:02 PM



#60
Dibromochloromethane
Concen: 51.400 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion: 129 Resp: 404943
Ion Ratio Lower Upper
129 100
127 76.9 38.6 115.7





#61

1,2-Dibromoethane

Concen: 52.608 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 334807

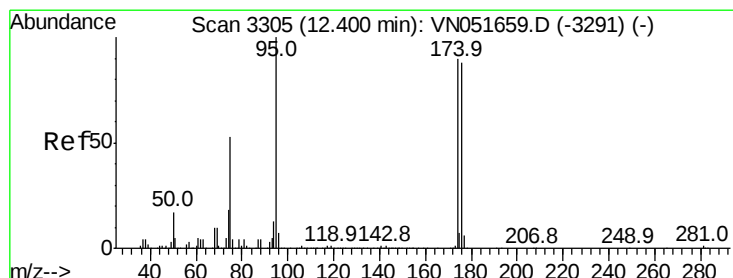
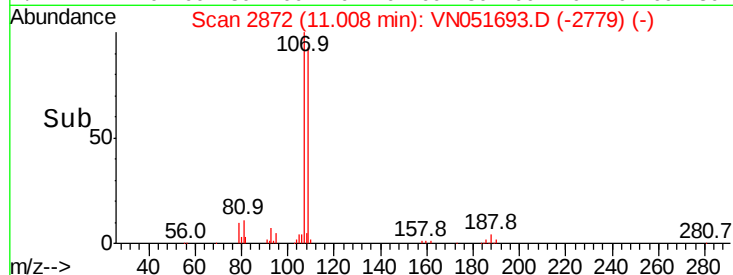
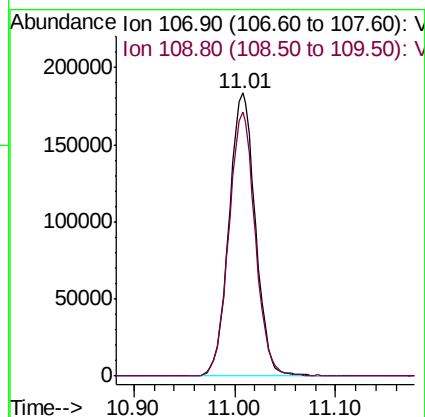
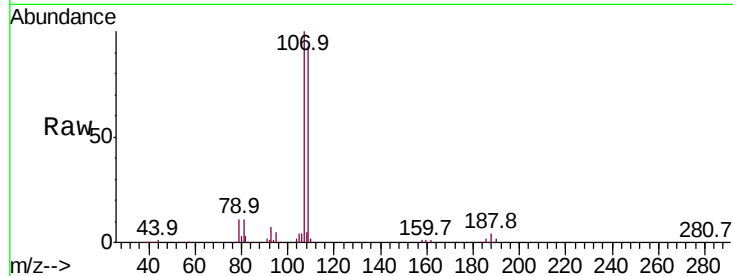
Ion Ratio Lower Upper

107 100

109 93.3 75.4 113.0

Manual Integrations
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MMDadoda
10/8/2018 12:50:02 PM



#62

4-Bromofluorobenzene

Concen: 52.608 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

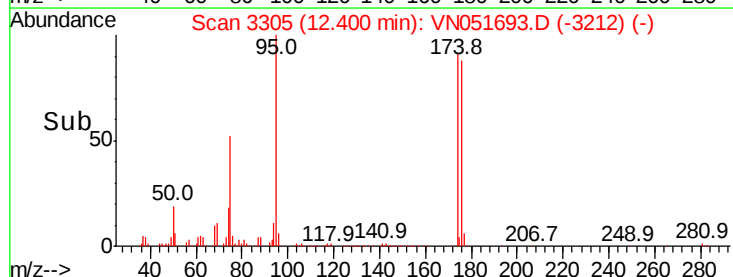
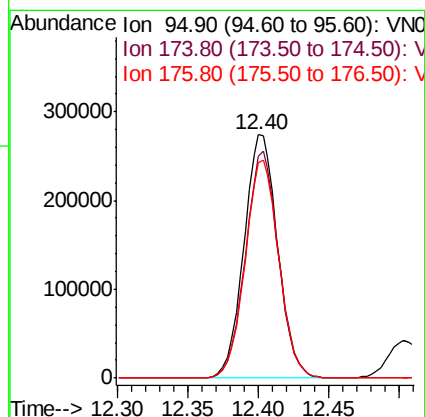
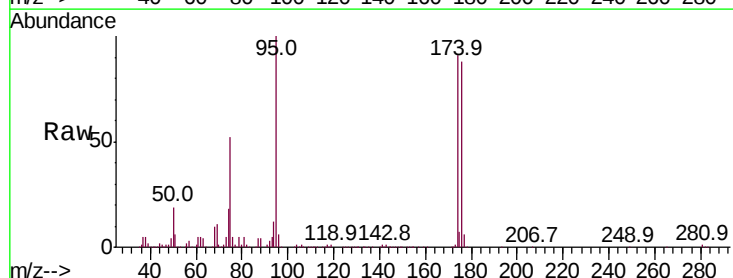
Tgt Ion: 95 Resp: 458754

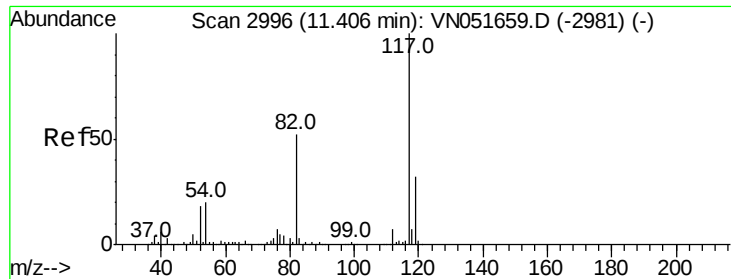
Ion Ratio Lower Upper

95 100

174 91.6 0.0 182.8

176 89.1 0.0 176.4





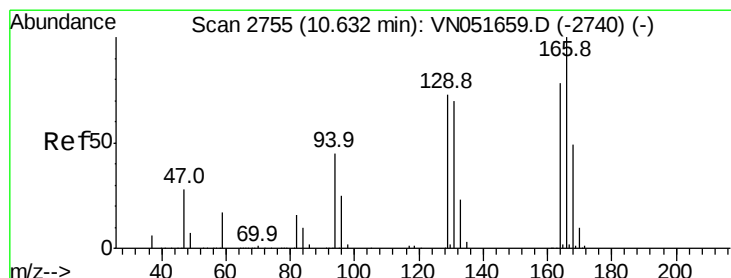
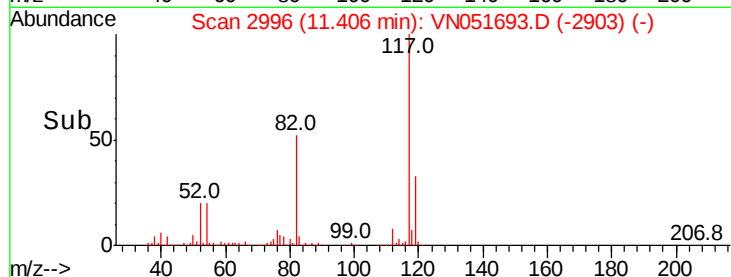
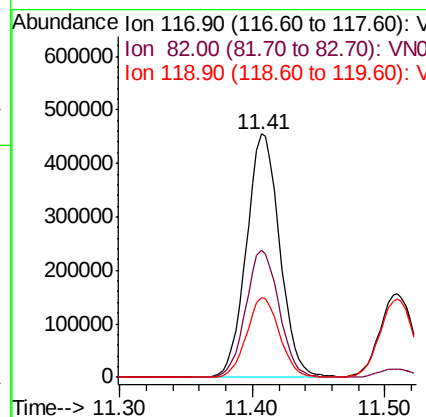
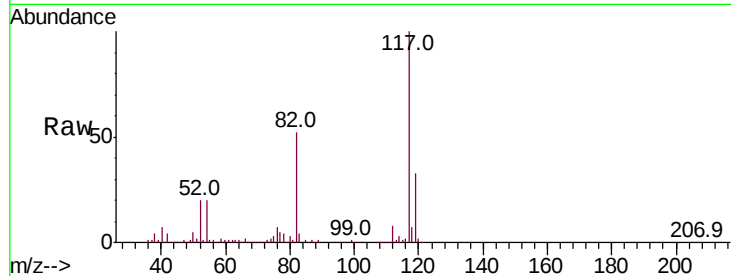
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.3	61.9
119	32.8	25.9	38.9

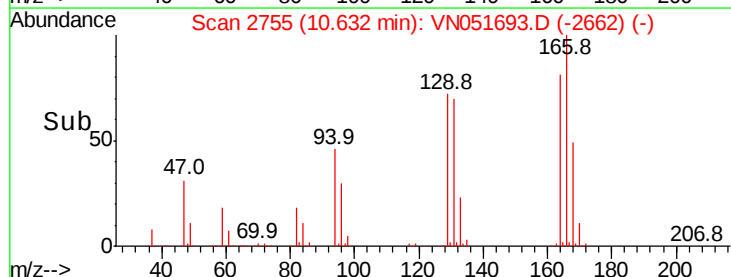
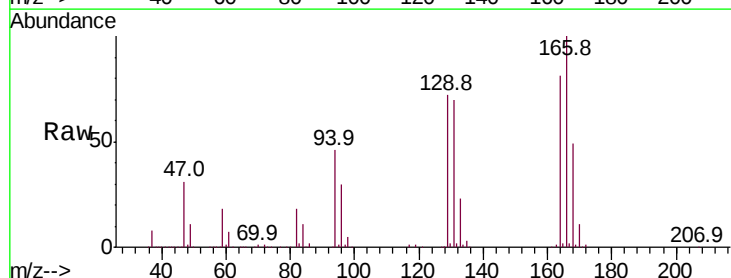
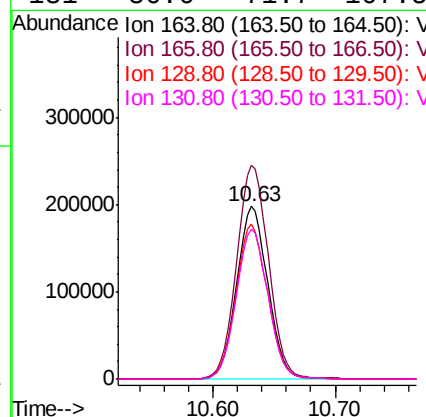
Manual Integrations
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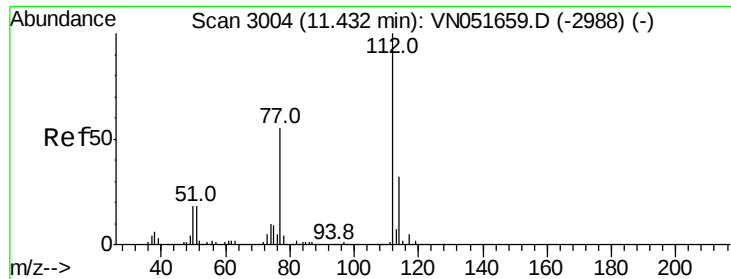
MMDadoda
10/8/2018 12:50:02 PM



#64
Tetrachloroethene
Concen: 49.953 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.7	103.0	154.6
129	89.6	75.2	112.8
131	86.6	71.7	107.5





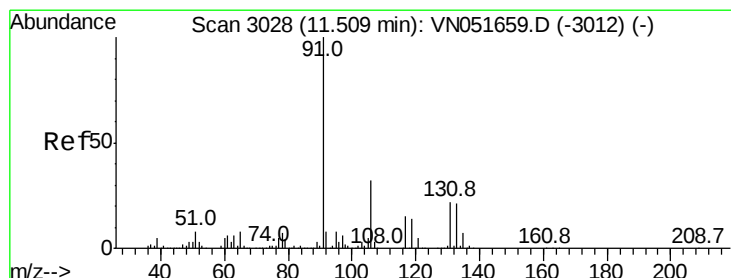
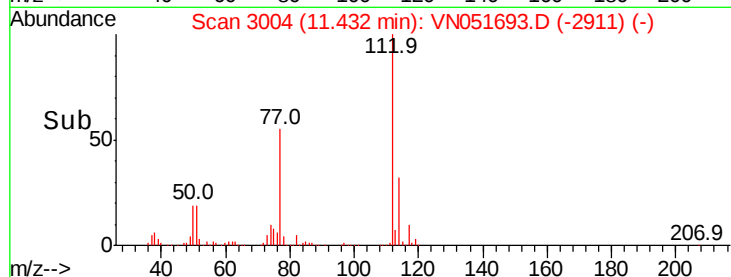
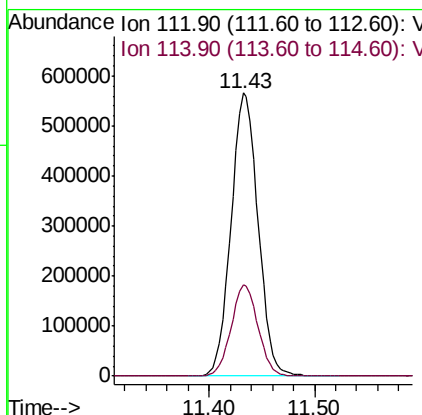
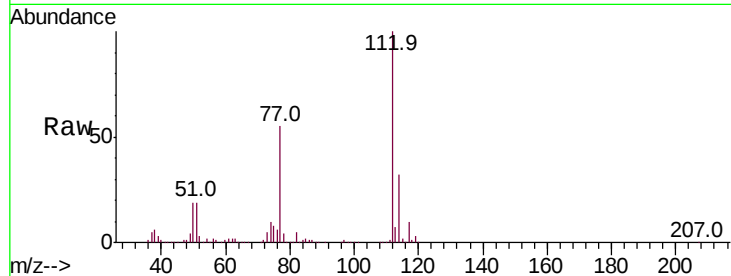
#65
Chlorobenzene
Concen: 50.972 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1002745
Ion Ratio Lower Upper
112 100
114 32.3 25.9 38.9

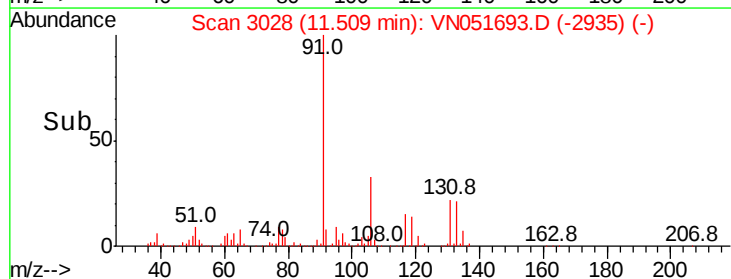
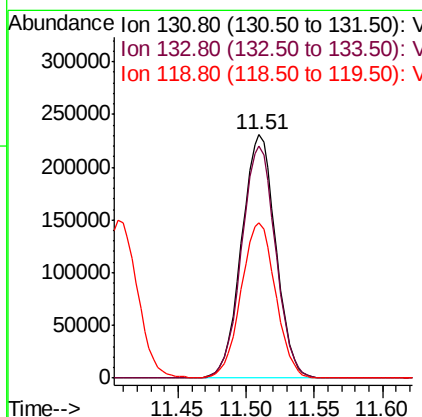
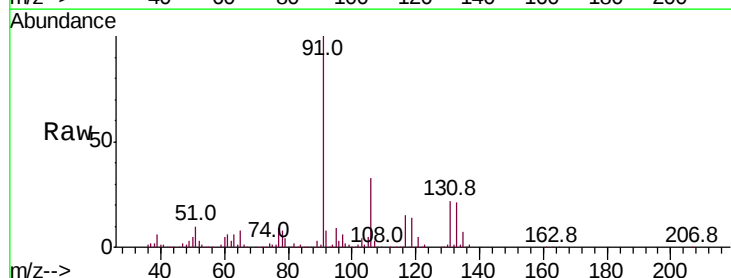
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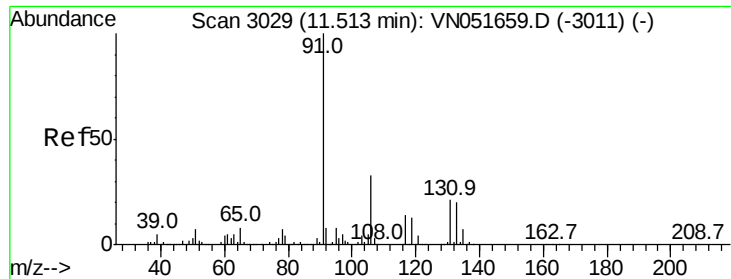
MMDadoda
10/8/2018 12:50:02 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.741 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion:131 Resp: 399682
Ion Ratio Lower Upper
131 100
133 95.5 47.6 142.8
119 64.4 32.0 96.0





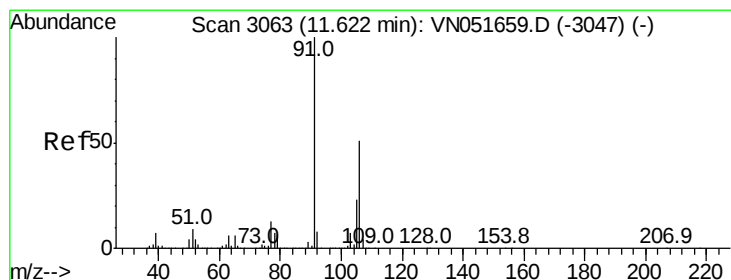
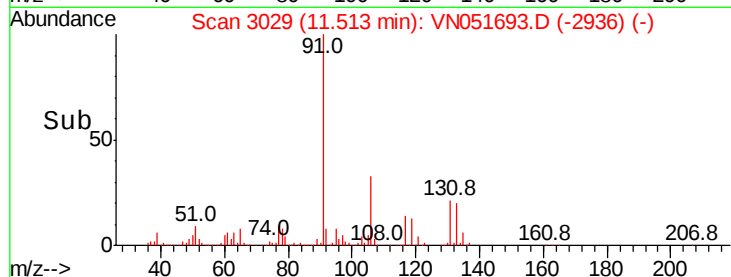
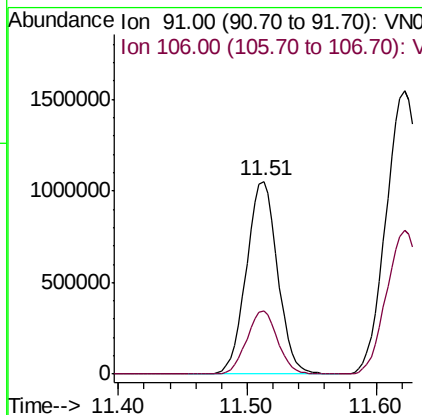
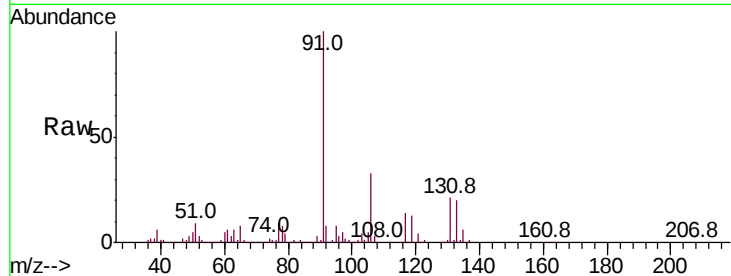
#67
Ethyl Benzene
Concen: 52.099 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1771503
Ion Ratio Lower Upper
91 100
106 32.7 26.0 39.0

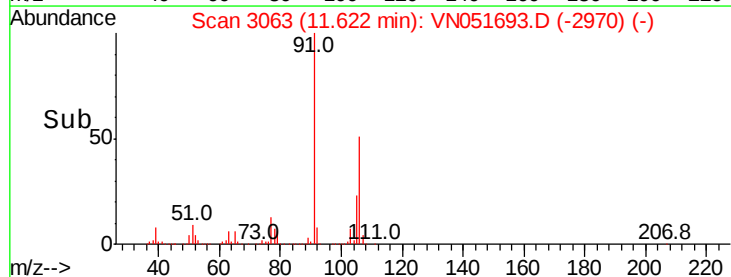
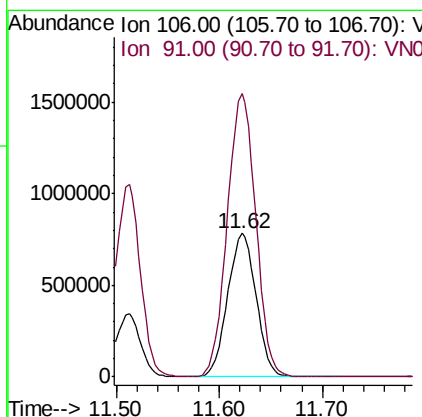
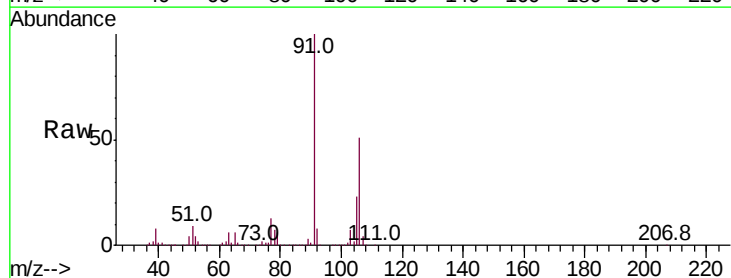
Manual Integrations
APPROVED

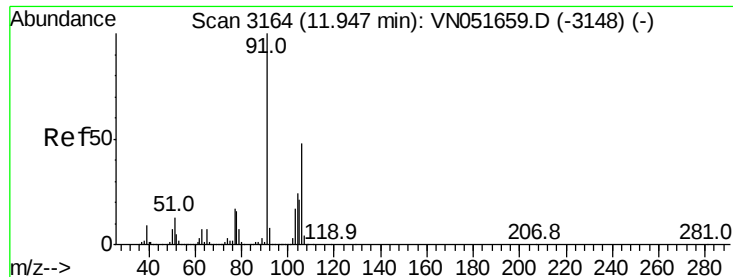
MMDadoda
10/8/2018 12:50:02 PM



#68
m/p-Xylenes
Concen: 110.669 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion: 106 Resp: 1505668
Ion Ratio Lower Upper
106 100
91 197.9 158.4 237.6





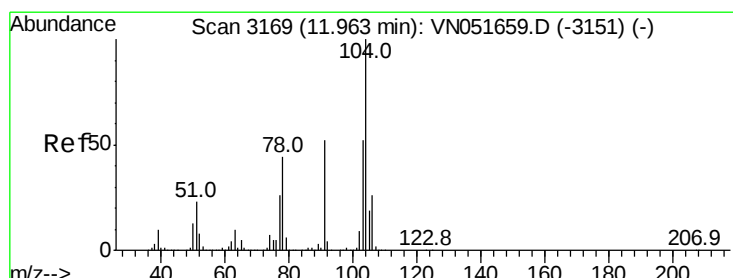
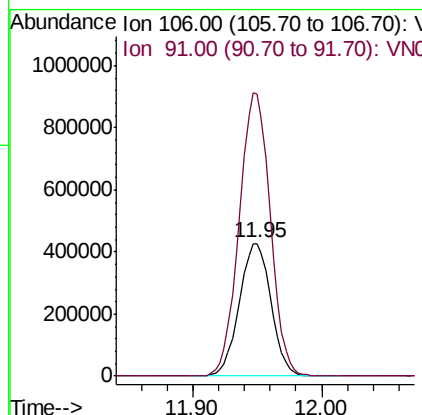
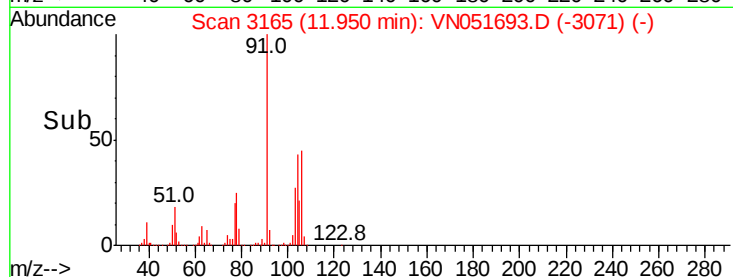
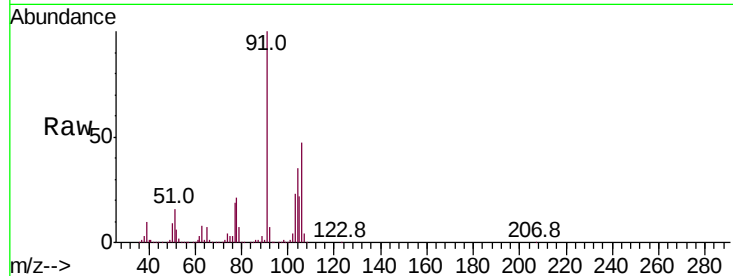
#69
o-Xylene
Concen: 54.639 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 729024
Ion Ratio Lower Upper
106 100
91 209.8 104.4 313.2

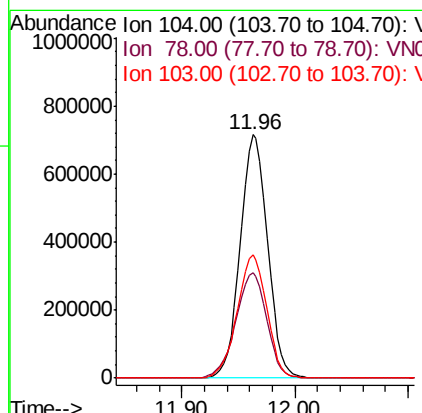
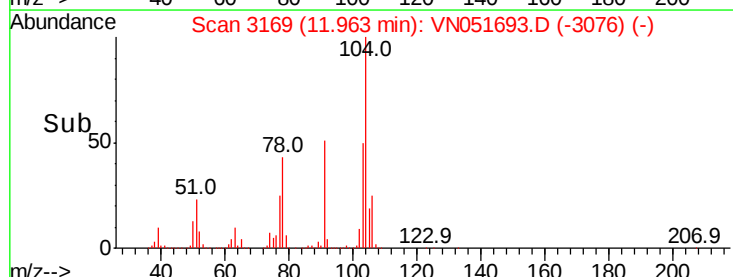
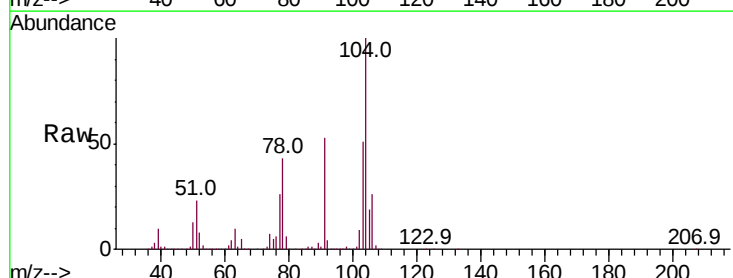
Manual Integrations
APPROVED

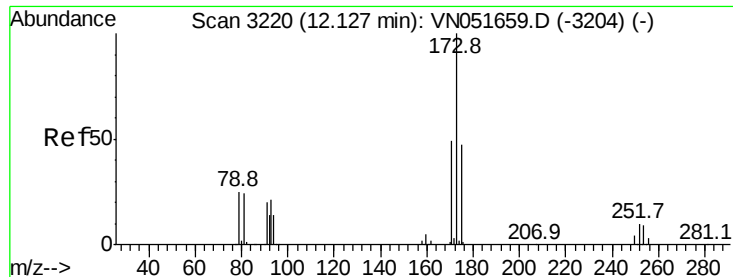
MMDadoda
10/8/2018 12:50:02 PM



#70
Styrene
Concen: 56.853 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion:104 Resp: 1208729
Ion Ratio Lower Upper
104 100
78 48.7 39.3 58.9
103 54.9 45.0 67.6





#71

Bromoform

Concen: 51.610 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

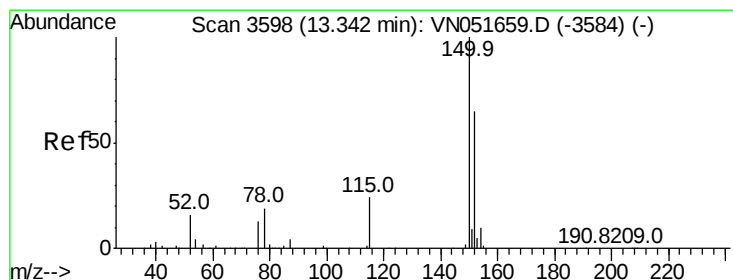
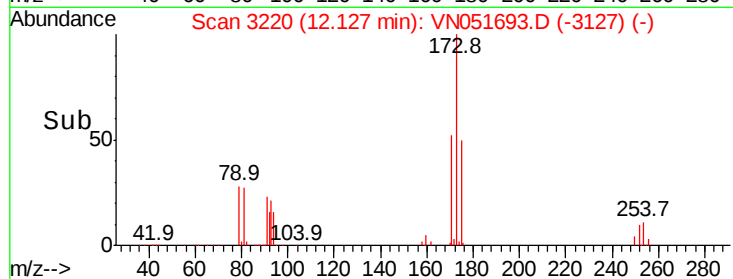
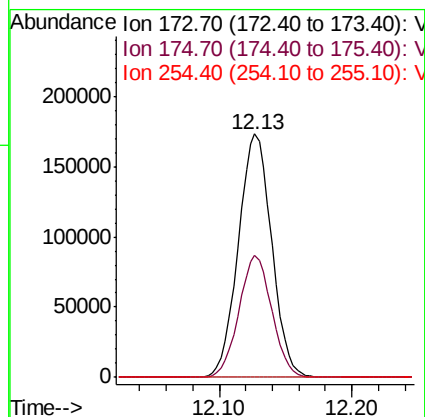
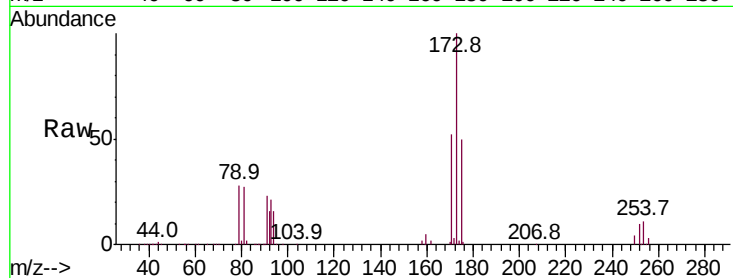
ClientSampled :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
173	100			
175	49.3	24.0	72.0	
254	0.1	0.1	0.1	

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

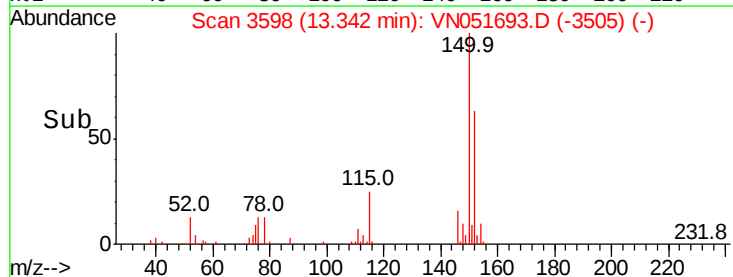
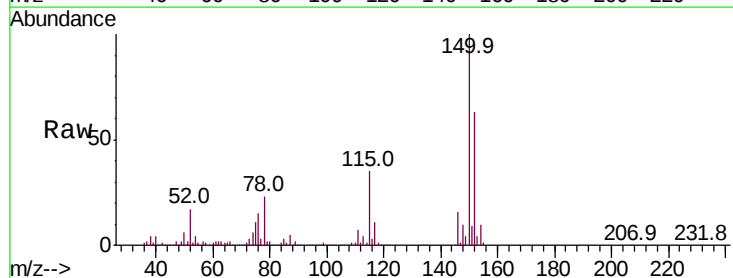
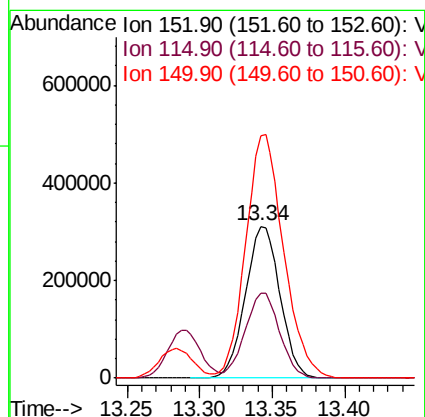
RT: 13.34 min Scan# 3598

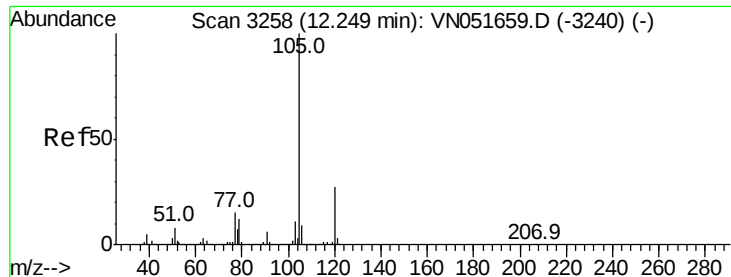
Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
115	56.1	28.6	85.8	
150	176.0	0.0	352.4	





#73

Isopropylbenzene

Concen: 45.552 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2002216

Ion Ratio Lower Upper

105 100

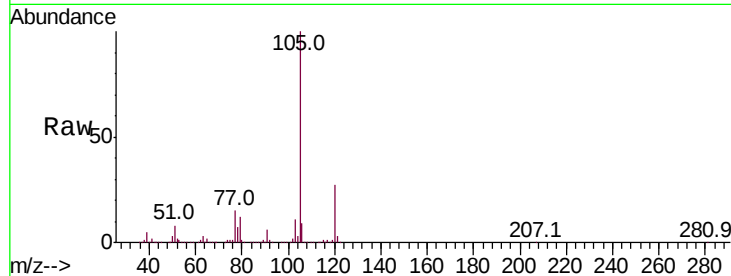
120 27.2 13.9 41.6

Manual Integrations

APPROVED

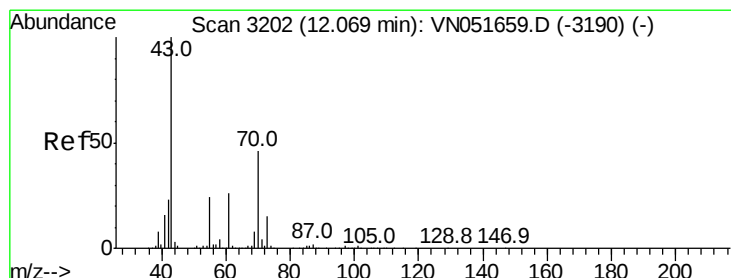
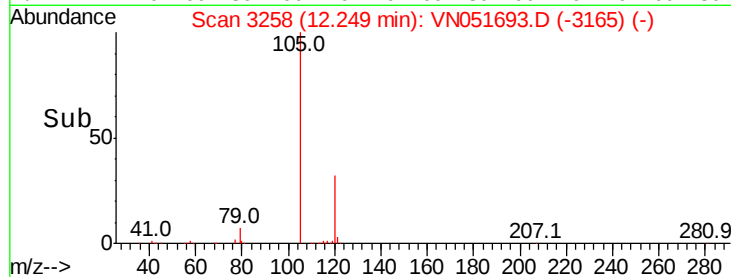
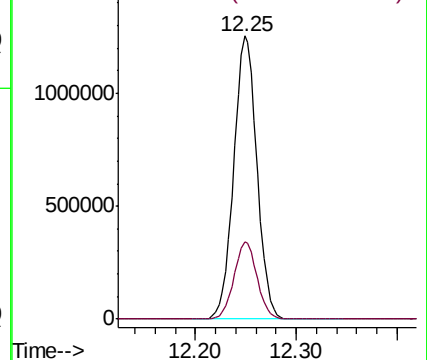
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 52.855 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion: 43 Resp: 478457

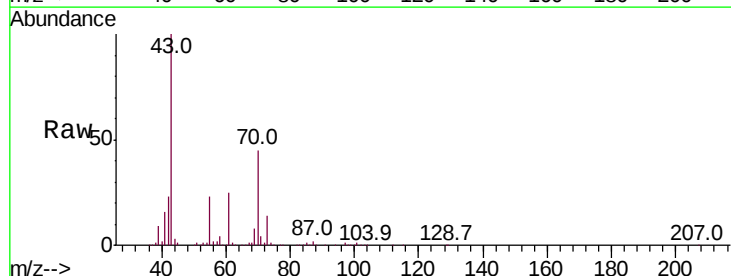
Ion Ratio Lower Upper

43 100

70 44.8 37.1 55.7

55 23.2 19.1 28.7

61 24.8 20.8 31.2

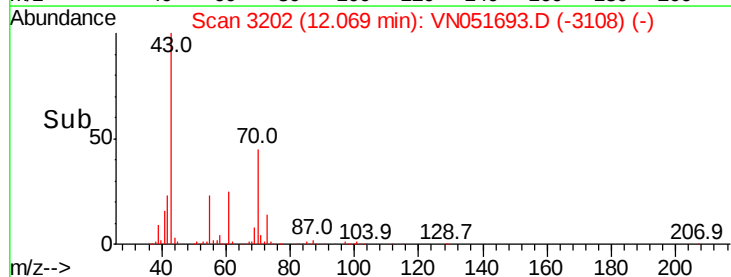
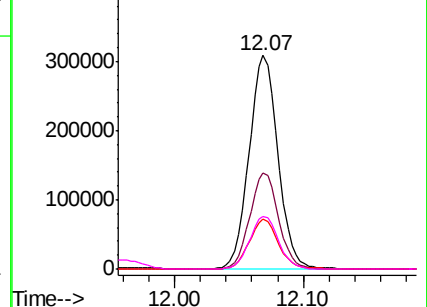


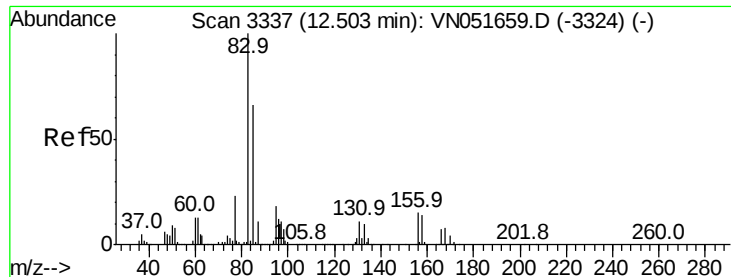
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.414 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 421502

Ion Ratio Lower Upper

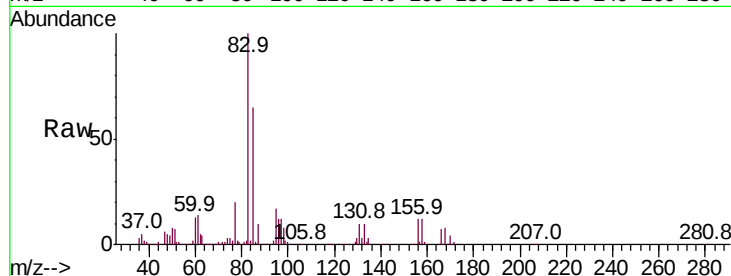
83 100

131 10.9 5.7 17.1

85 64.1 33.0 98.9

Manual Integrations
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10/8/2018 12:50:02 PM



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

12.50

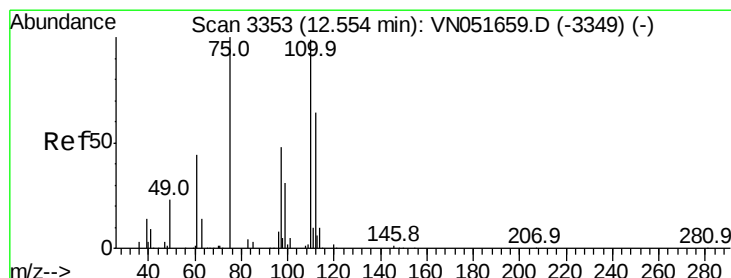
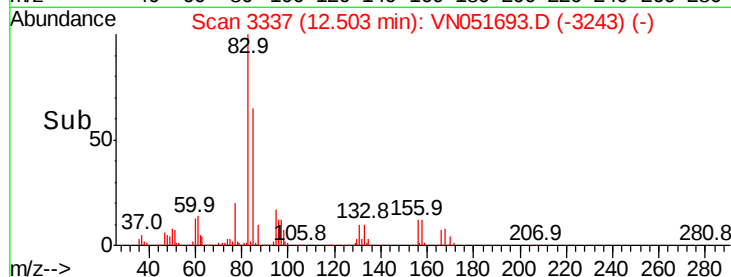
300000

200000

100000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 55.313 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051693.D

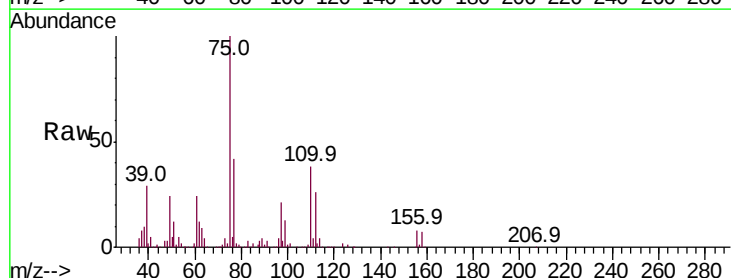
Acq: 5 Oct 2018 17:53

Tgt Ion: 75 Resp: 351591

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

400000

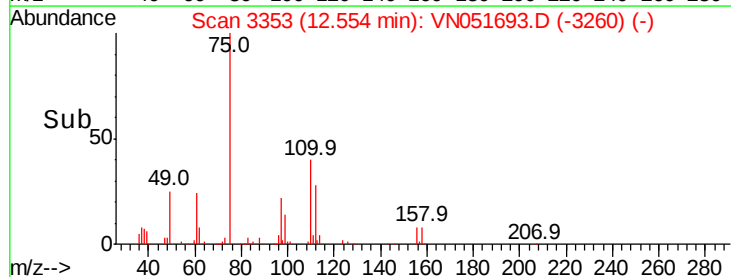
300000

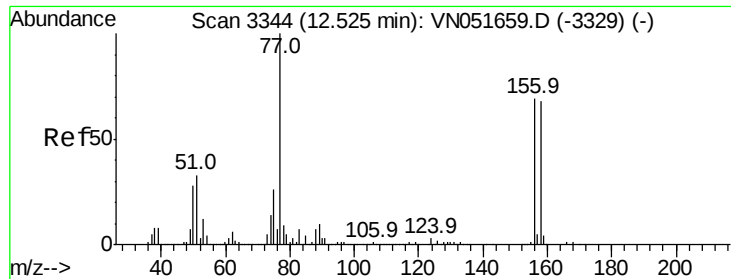
200000

100000

0

Time-->





#77

Bromobenzene

Concen: 44.760 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:156 Resp: 481053

Ion Ratio Lower Upper

156 100

77 165.0 83.2 249.4

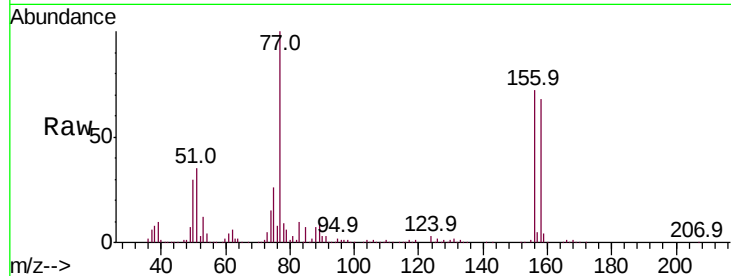
158 96.2 49.0 147.2

Manual Integrations

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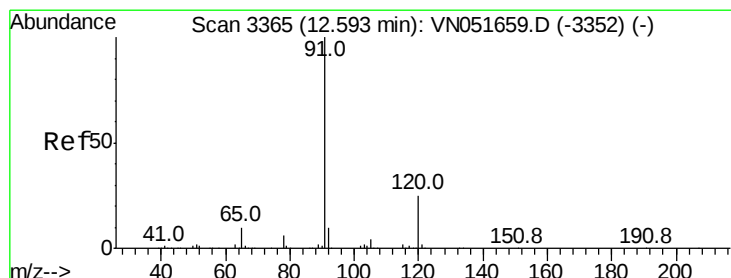
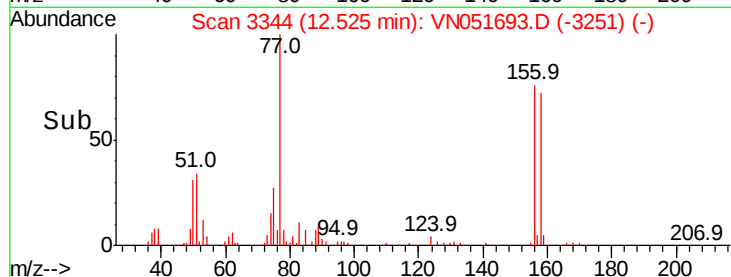
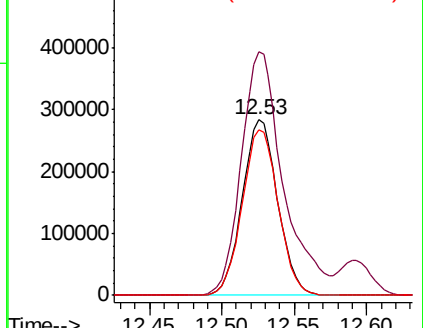
10/8/2018 12:50:02 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.374 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051693.D

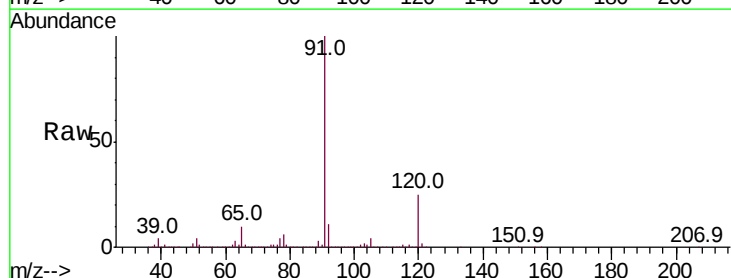
Acq: 5 Oct 2018 17:53

Tgt Ion: 91 Resp: 2271183

Ion Ratio Lower Upper

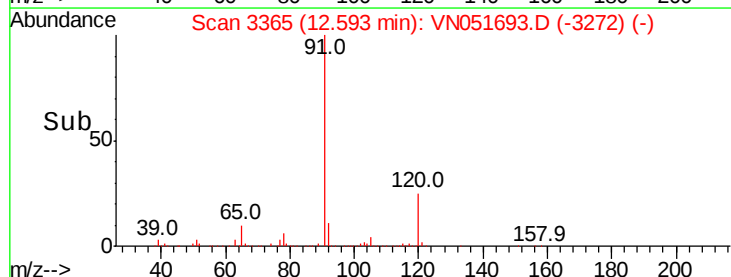
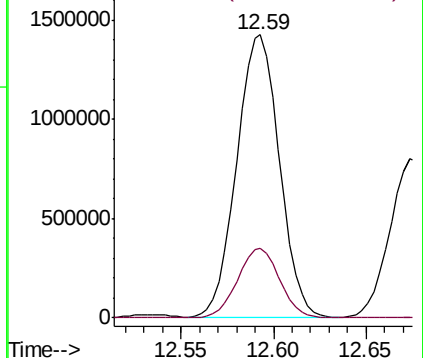
91 100

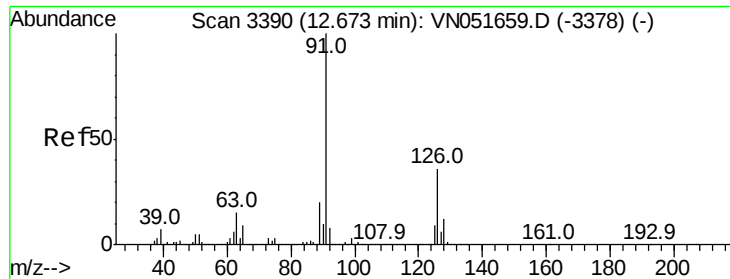
120 24.4 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





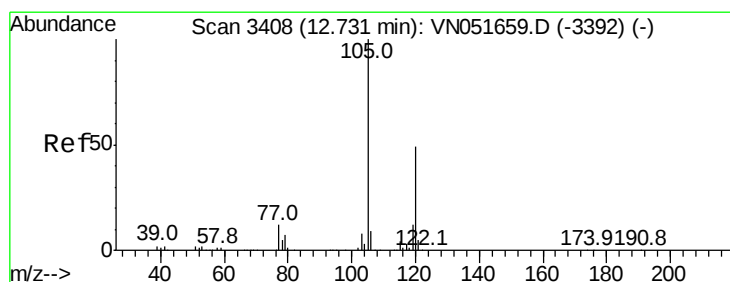
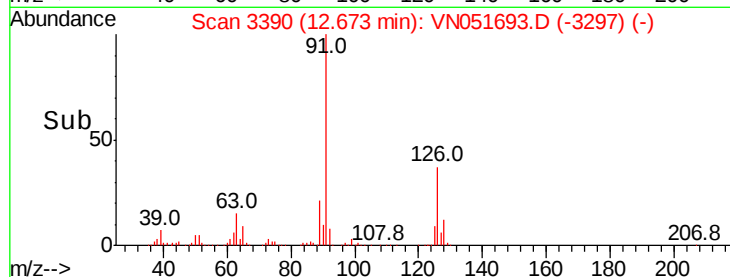
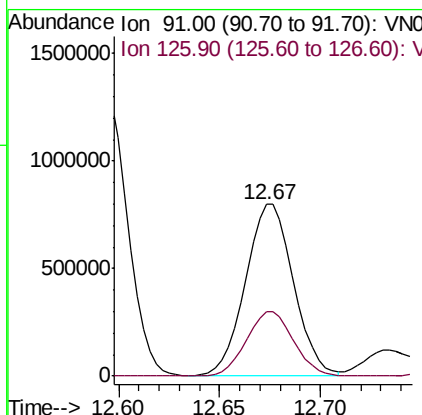
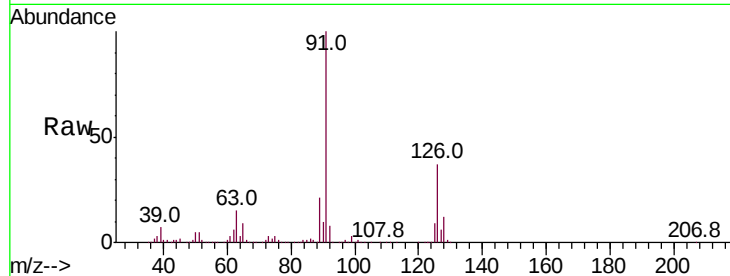
#79
 2-Chlorotoluene
 Concen: 46.990 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion: 91 Resp: 1327676
 Ion Ratio Lower Upper
 91 100
 126 37.3 18.5 55.5

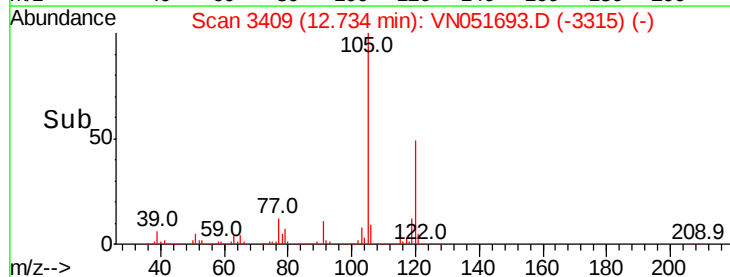
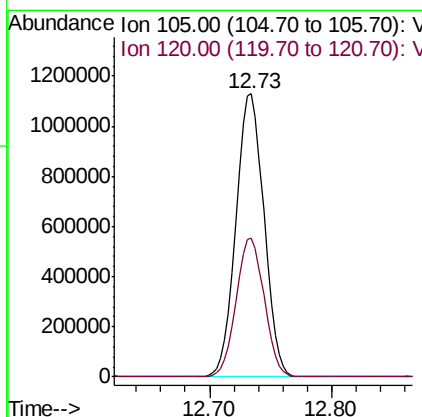
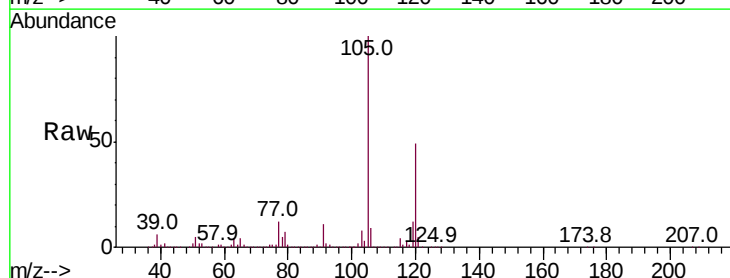
Manual Integrations
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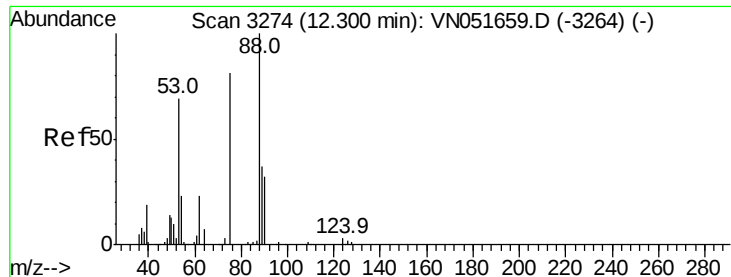
MMDadoda
 10/8/2018 12:50:02 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 48.473 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion: 105 Resp: 1795515
 Ion Ratio Lower Upper
 105 100
 120 49.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 45.935 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051693.D

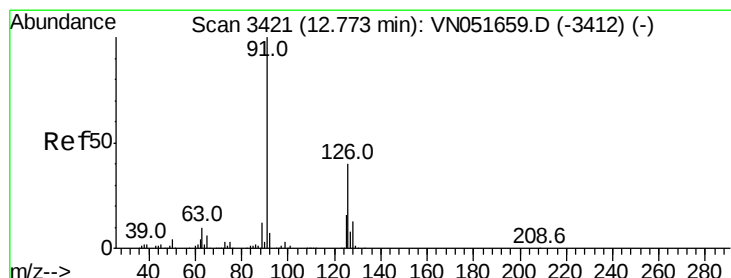
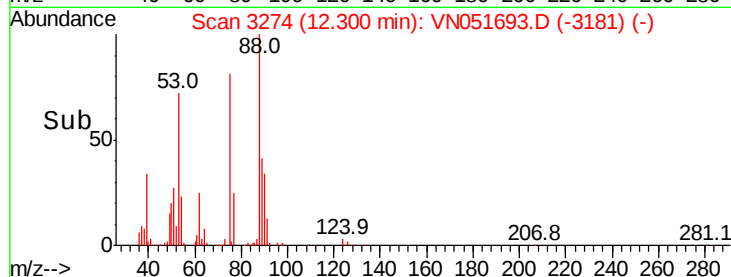
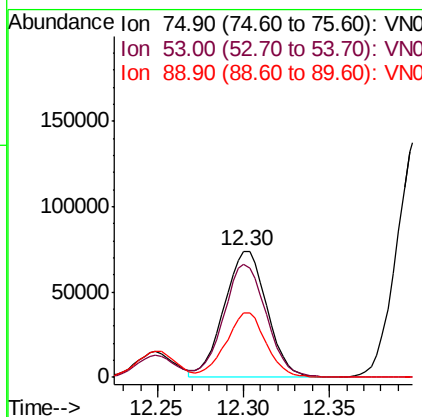
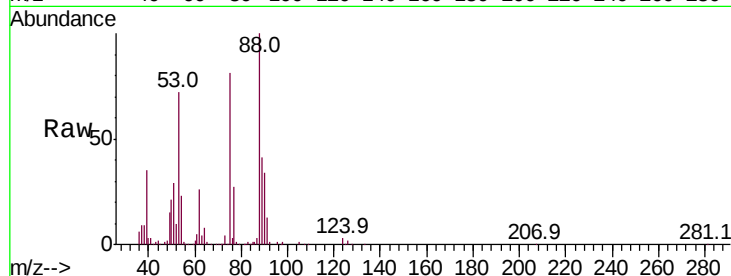
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.8	68.6	102.8
89	47.9	39.4	59.2

Manual Integrations
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10/8/2018 12:50:02 PM



#82

4-Chlorotoluene

Concen: 49.629 ug/l

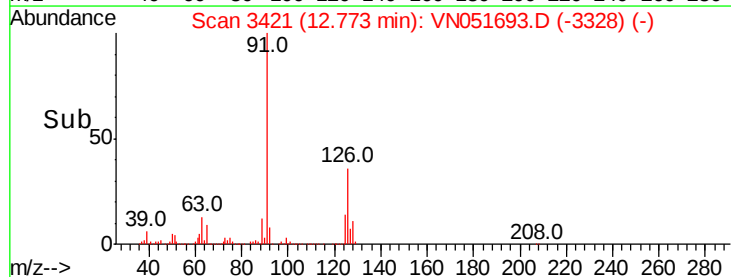
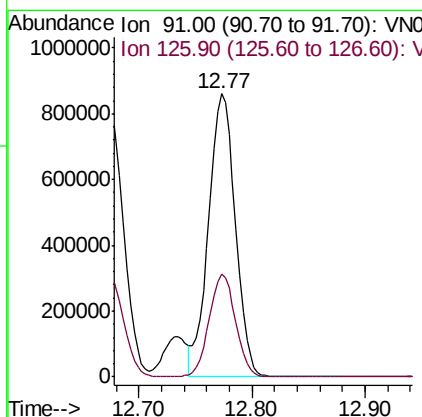
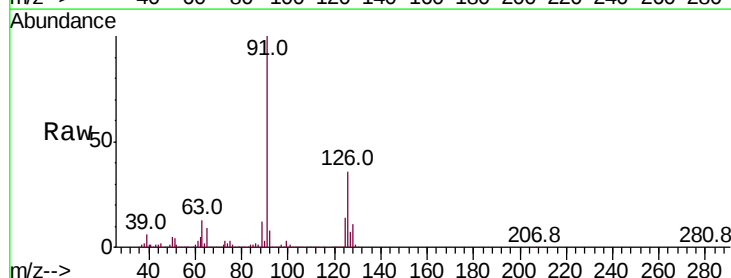
RT: 12.77 min Scan# 3421

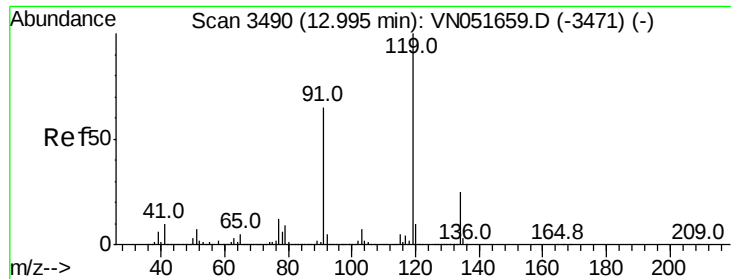
Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	18.0	54.0





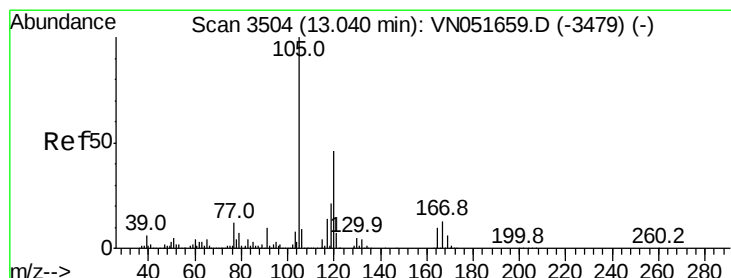
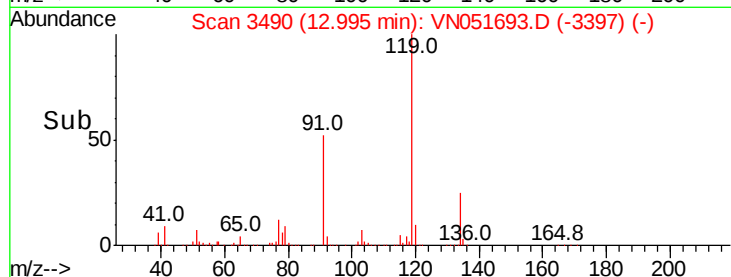
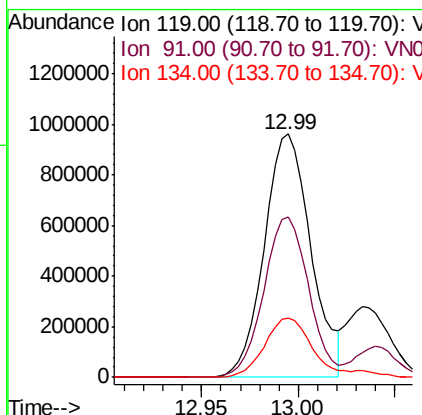
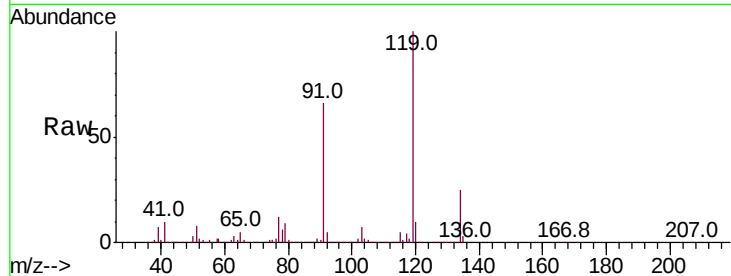
#83
tert-Butylbenzene
Concen: 48.596 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.3	32.1	96.5
134	26.0	13.3	39.9

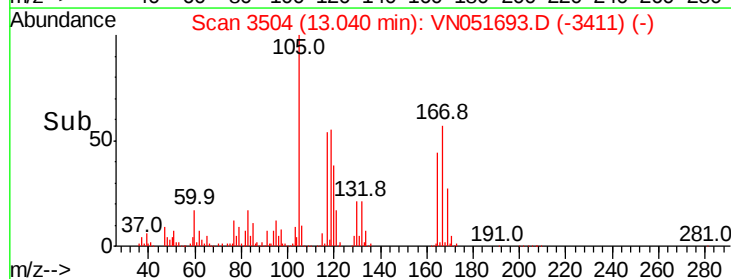
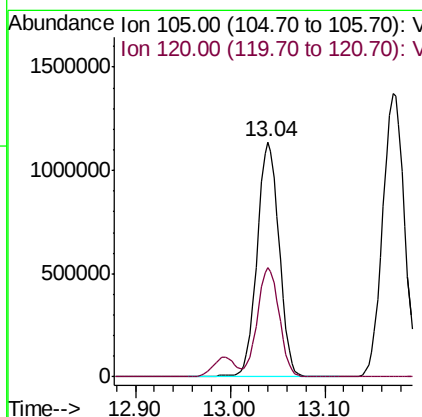
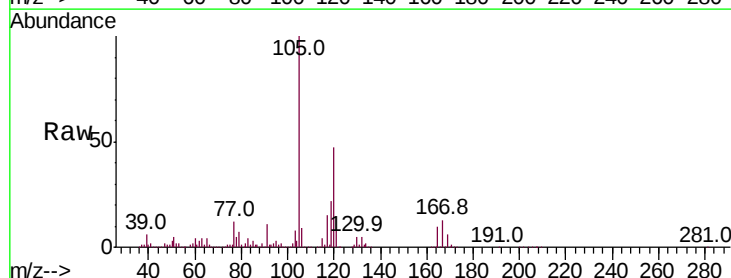
Manual Integrations
APPROVED

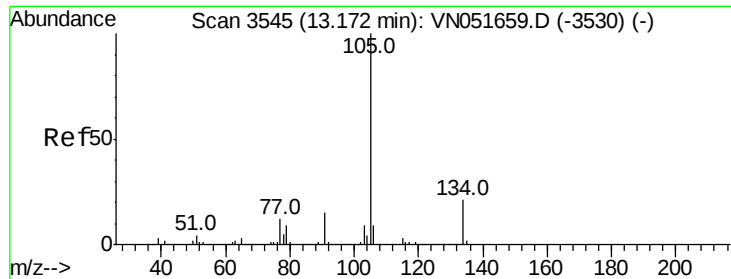
MMDadoda
10/8/2018 12:50:02 PM



#84
1,2,4-Trimethylbenzene
Concen: 49.469 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	22.9	68.7





#85

sec-Butylbenzene

Concen: 49.925 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 2191932

Ion Ratio Lower Upper

105 100

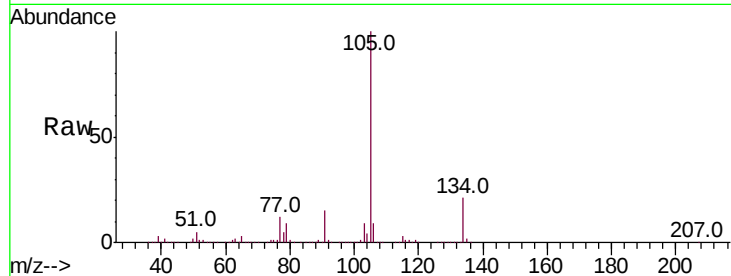
134 21.0 10.5 31.6

Manual Integrations

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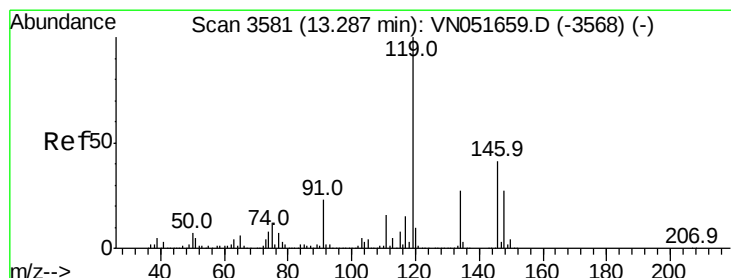
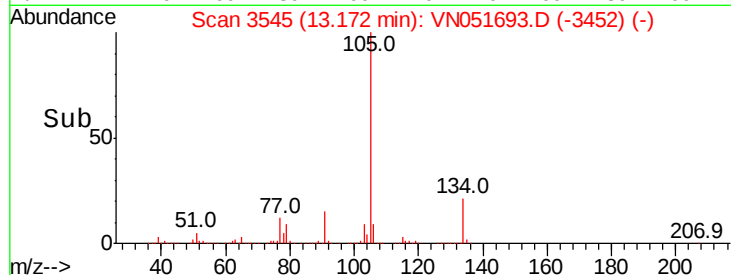
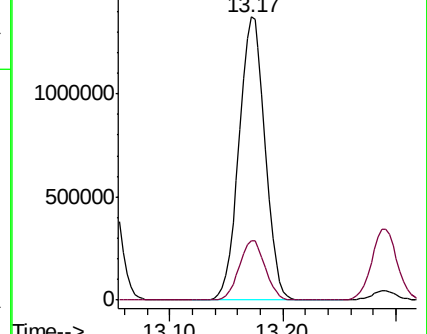
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.061 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051693.D

Acq: 5 Oct 2018 17:53

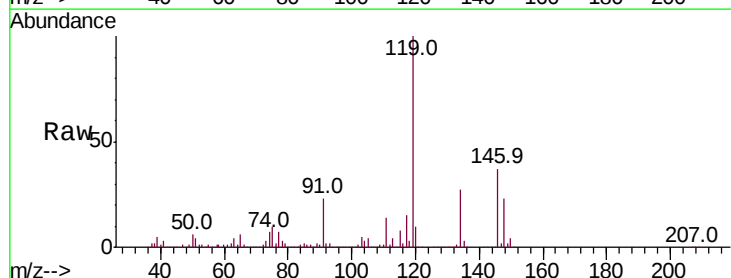
Tgt Ion:119 Resp: 1987411

Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

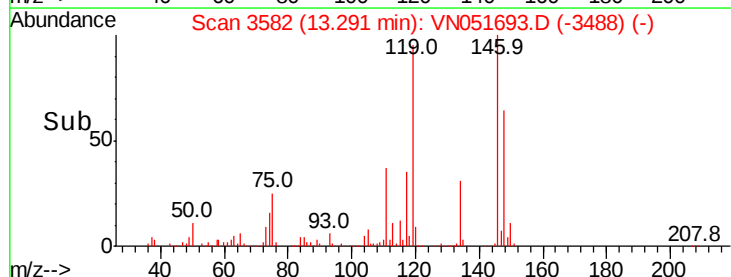
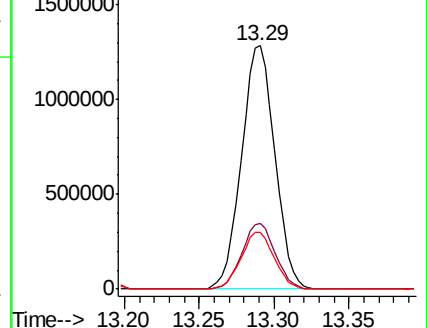
91 23.2 11.7 35.1

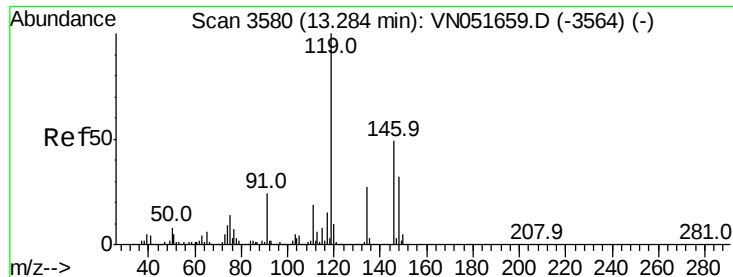


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





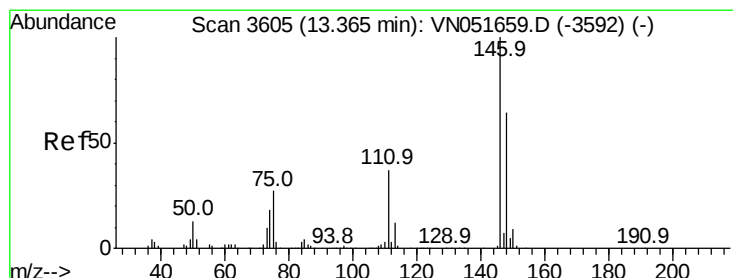
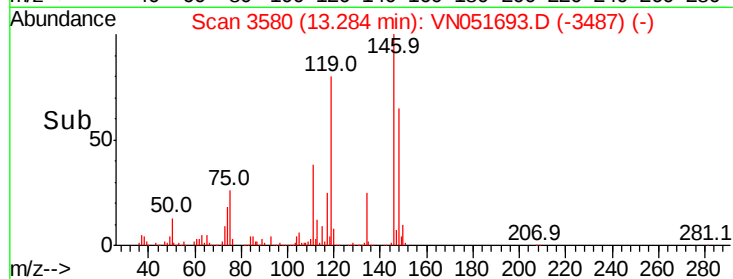
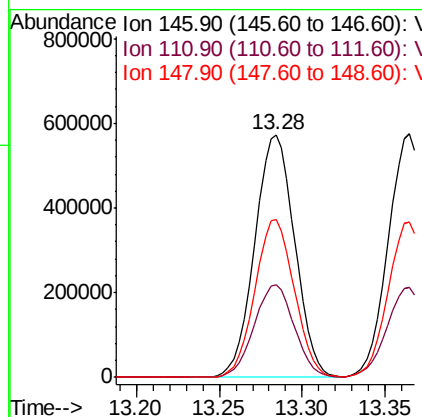
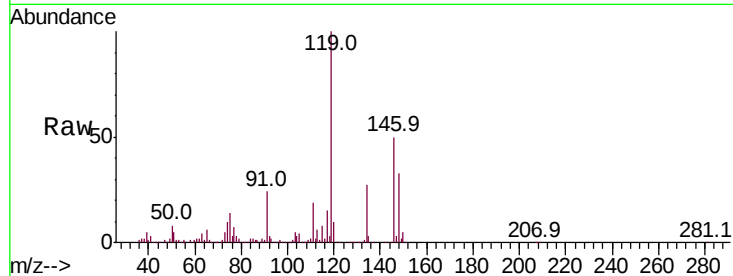
#87
 1,3-Dichlorobenzene
 Concen: 51.159 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	38.2	19.3	57.9	
148	64.2	32.5	97.5	

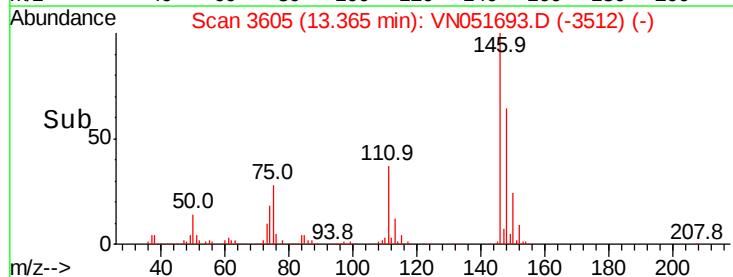
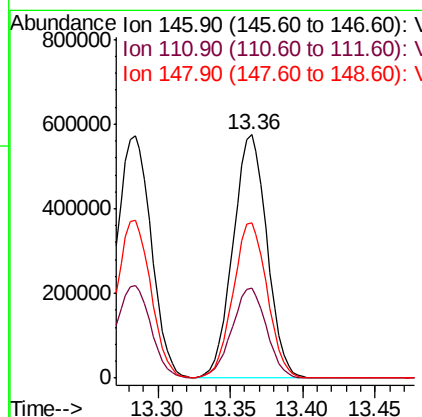
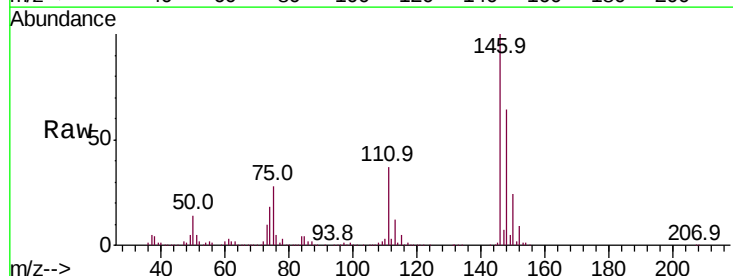
Manual Integrations
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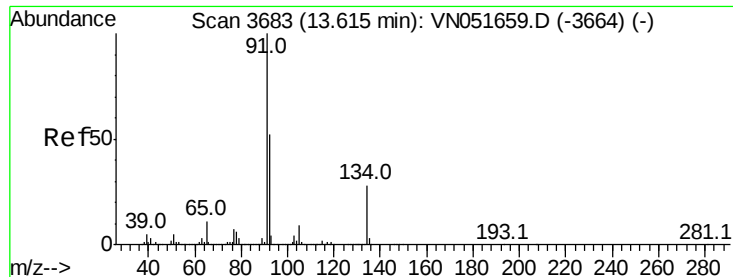
MMDadoda
 10/8/2018 12:50:02 PM



#88
 1,4-Dichlorobenzene
 Concen: 50.689 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	37.6	18.6	55.8	
148	64.3	32.3	96.8	





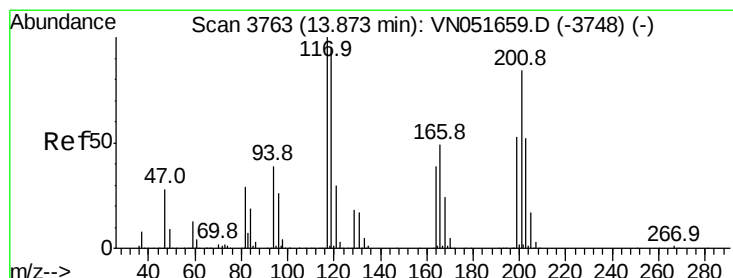
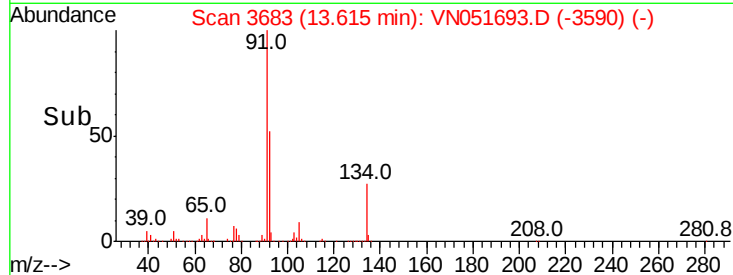
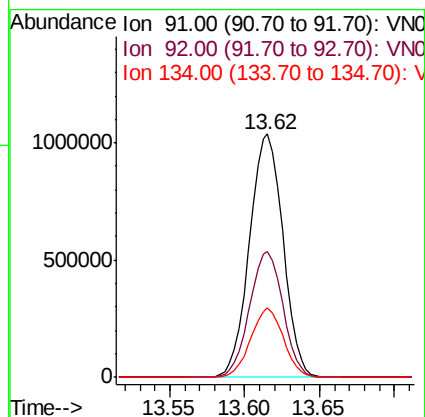
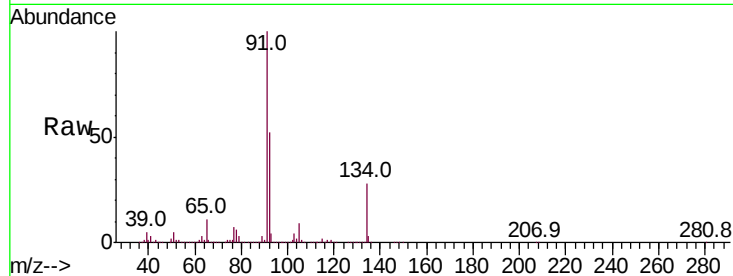
#89
n-Butylbenzene
Concen: 52.514 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.0	78.0
134	27.8	14.2	42.6

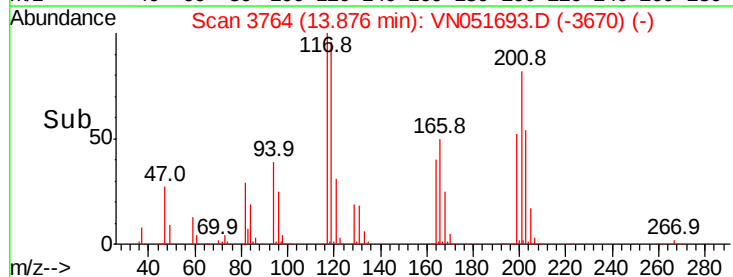
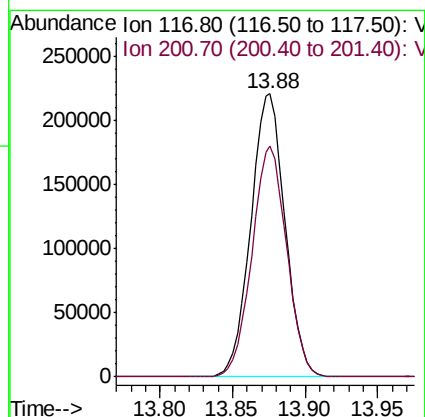
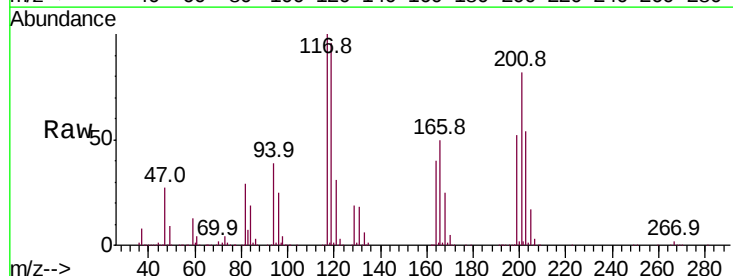
Manual Integrations
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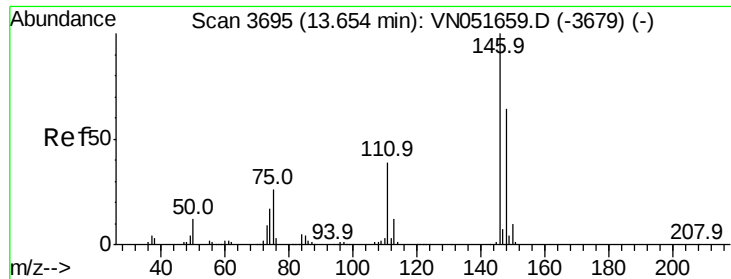
MMDadoda
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#90
Hexachloroethane
Concen: 46.857 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.4	42.4	127.3





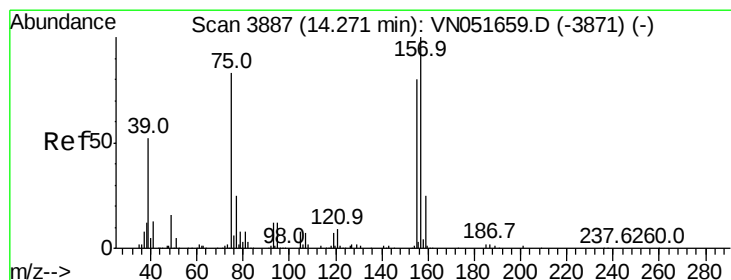
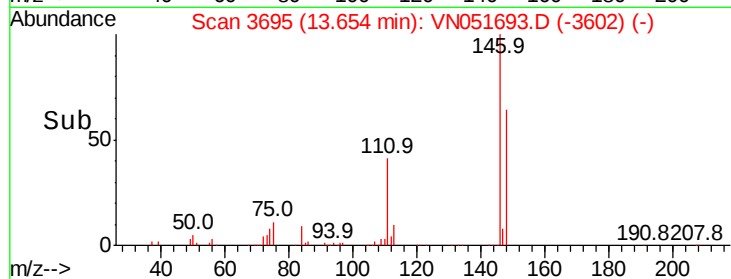
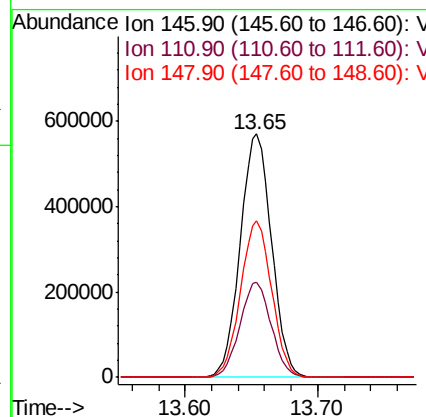
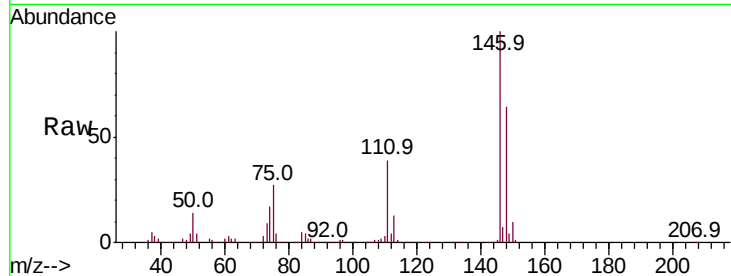
#91
 1,2-Dichlorobenzene
 Concen: 50.254 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.7	59.0
148	63.7	32.1	96.3

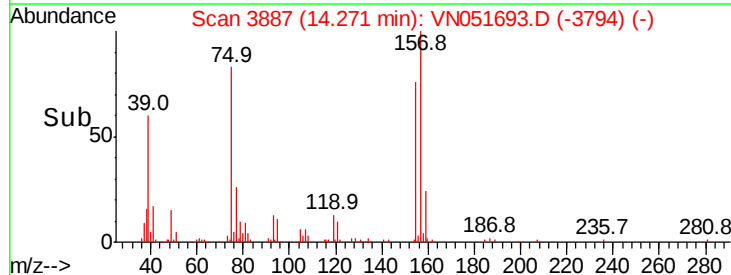
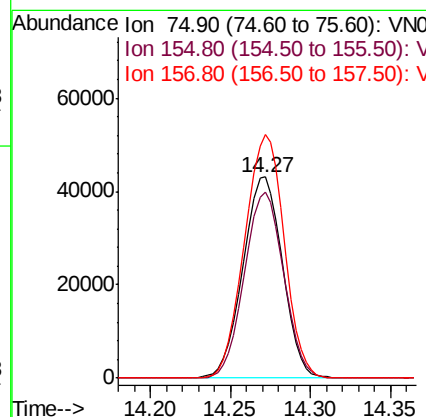
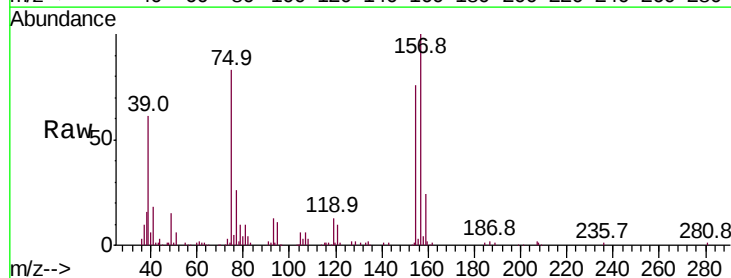
Manual Integrations
 APPROVED

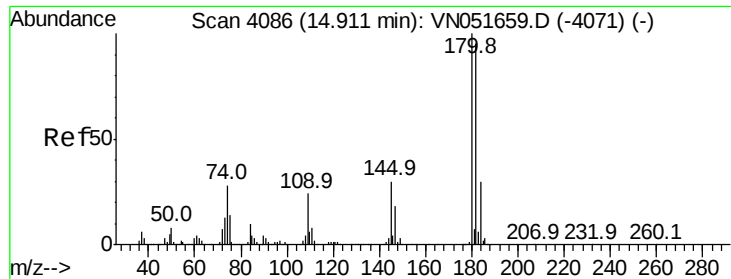
MMDadoda
 10/8/2018 12:50:02 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.887 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.8	47.6	142.9
157	121.5	61.7	185.1





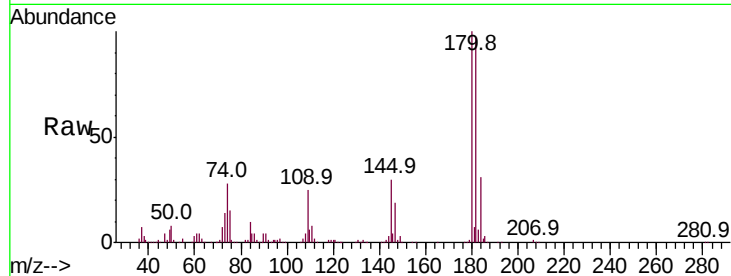
#93
 1,2,4-Trichlorobenzene
 Concen: 47.286 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.2	47.7	143.1	
145	30.1	15.3	45.9	

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 12:50:02 PM

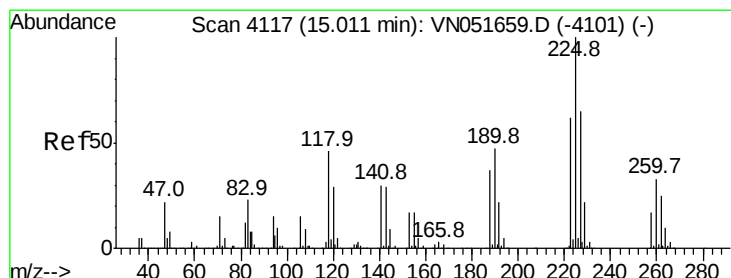
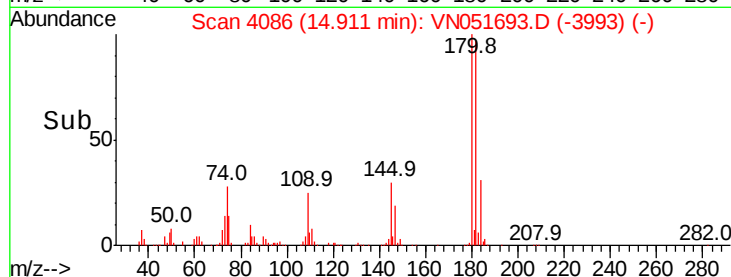
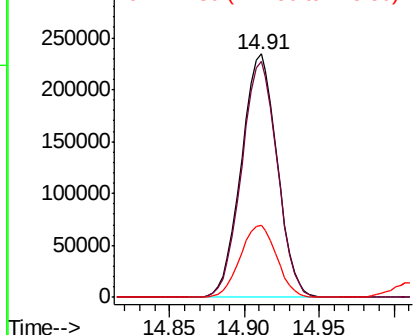


Abundance

Ion 179.80 (179.50 to 180.50): V

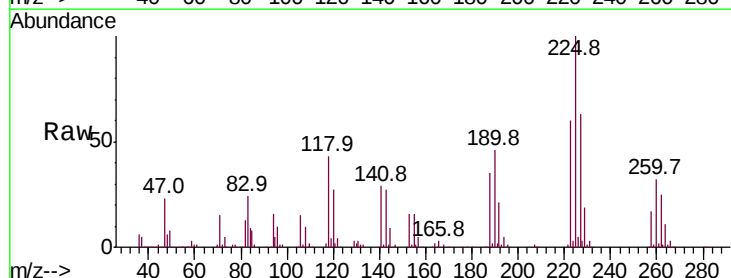
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 44.880 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051693.D
 Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.2	31.9	95.5	
227	63.8	31.7	95.1	

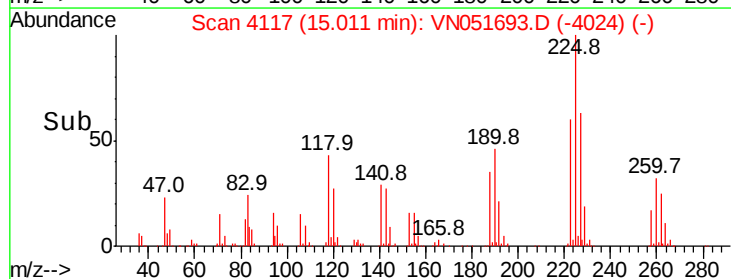
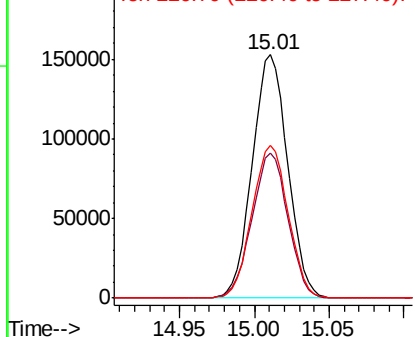


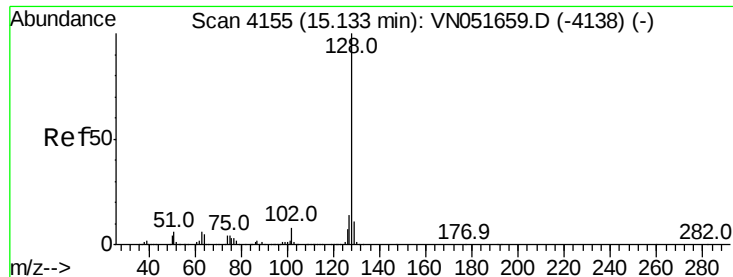
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





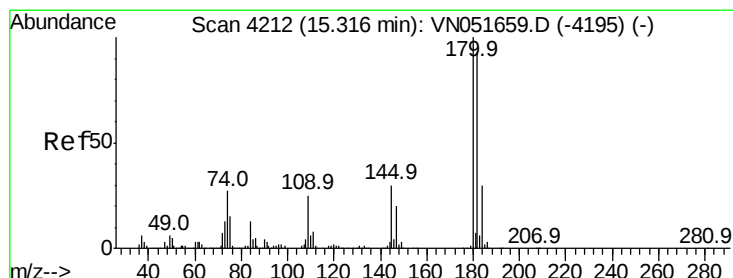
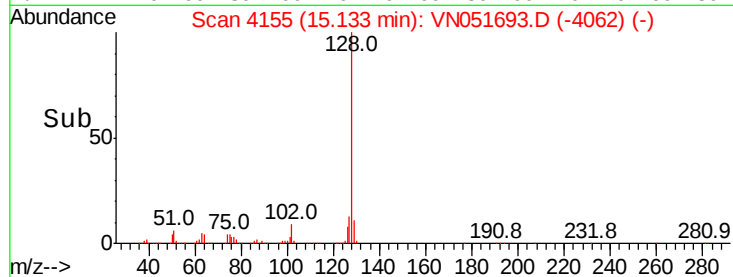
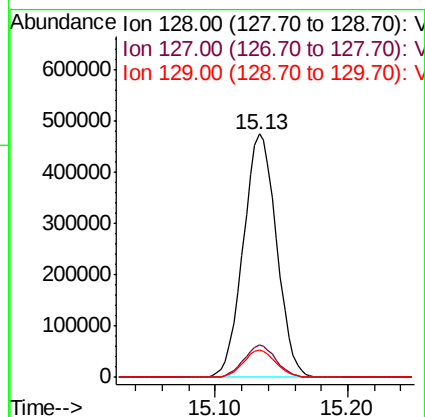
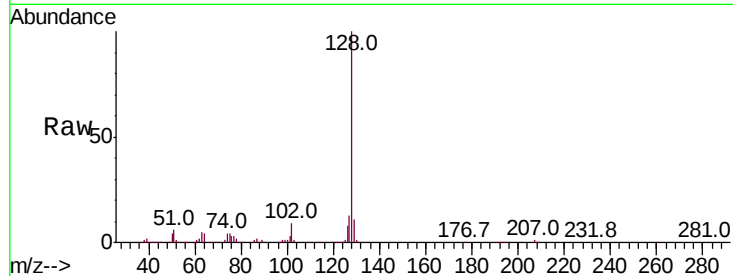
#95
Naphthalene
Concen: 46.022 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	11.1	9.0	13.6

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 46.145 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051693.D
Acq: 5 Oct 2018 17:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.3	141.8
145	30.8	15.6	46.8

