

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053172.D
 Acq On : 24 Dec 2018 9:19
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 10:53:25 AM

Quant Time: Dec 24 22:43:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	976172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1447940	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1322272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	643700	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	490227	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
35) Dibromofluoromethane	7.59	113	422882	63.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.88%	
50) Toluene-d8	10.09	98	1831524	51.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.16%	
62) 4-Bromofluorobenzene	12.40	95	655613	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	480385	48.624	ug/l	100
3) Chloromethane	2.06	50	627409	52.406	ug/l	99
4) Vinyl Chloride	2.19	62	595801	49.139	ug/l	99
5) Bromomethane	2.57	94	386383	45.995	ug/l	100
6) Chloroethane	2.71	64	358558	49.932	ug/l	98
7) Trichlorofluoromethane	3.02	101	759009	50.251	ug/l	99
8) Diethyl Ether	3.41	74	292980	51.416	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	495416	51.442	ug/l	99
10) Methyl Iodide	3.96	142	608907	45.023	ug/l	99
11) Tert butyl alcohol	4.77	59	143906	238.080	ug/l	98
12) 1,1-Dichloroethene	3.74	96	456486	49.062	ug/l	98
13) Acrolein	3.61	56	167458	305.539	ug/l	100
14) Allyl chloride	4.32	41	746392	51.790	ug/l	99
15) Acrylonitrile	4.98	53	856129	254.953	ug/l	99
16) Acetone	3.81	43	470551	242.263	ug/l	97
17) Carbon Disulfide	4.06	76	1304662	42.997	ug/l	100
18) Methyl Acetate	4.32	43	467853	53.010	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	1268634	50.952	ug/l	99
20) Methylene Chloride	4.55	84	544339	51.377	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	492135	49.231	ug/l	99
22) Diisopropyl ether	5.95	45	1664721	54.115	ug/l	97
23) Vinyl Acetate	5.89	43	4769081	269.602	ug/l	100
24) 1,1-Dichloroethane	5.85	63	949217	51.927	ug/l	99
25) 2-Butanone	6.83	43	855356	262.405	ug/l	99
26) 2,2-Dichloropropane	6.82	77	708210	50.752	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	582393	51.461	ug/l	99
28) Bromochloromethane	7.19	49	397404	50.171	ug/l	98
29) Tetrahydrofuran	7.21	42	627767	257.857	ug/l	99
30) Chloroform	7.37	83	924317	51.473	ug/l	99
31) Cyclohexane	7.65	56	886146	51.724	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	762362	49.836	ug/l	99
36) 1,1-Dichloropropene	7.79	75	727051	52.314	ug/l	99
37) Ethyl Acetate	6.92	43	417663	53.834	ug/l	99
38) Carbon Tetrachloride	7.77	117	665060	52.209	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	870190	51.543	ug/l	98
40) Benzene	8.04	78	2184681	52.848	ug/l	100
41) Methacrylonitrile	7.17	41	271850	60.644	ug/l	90
42) 1,2-Dichloroethane	8.12	62	635153	52.010	ug/l	99
43) Isopropyl Acetate	8.16	43	757310	50.450	ug/l	97
44) Trichloroethene	8.83	130	597168	49.944	ug/l	97
45) 1,2-Dichloropropane	9.12	63	582733	54.120	ug/l	100
46) Dibromomethane	9.21	93	325680	51.922	ug/l	99
47) Bromodichloromethane	9.40	83	709714	53.229	ug/l	100
48) Methyl methacrylate	9.20	41	393565	52.277	ug/l	100
49) 1,4-Dioxane	9.19	88	96225	1010.423	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	2056638	273.730	ug/l	99
52) Toluene	10.16	92	1376329	53.715	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	731393	52.166	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	858857	53.368	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	476813	53.341	ug/l	99
56) Ethyl methacrylate	10.43	69	626018	52.911	ug/l	99
57) 1,3-Dichloropropane	10.71	76	824667	53.799	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	1603021	246.790	ug/l	99
59) 2-Hexanone	10.75	43	1416778	278.705	ug/l	99
60) Dibromochloromethane	10.90	129	537028	52.484	ug/l	99
61) 1,2-Dibromoethane	11.00	107	477876	52.638	ug/l	99
64) Tetrachloroethene	10.63	164	648403	45.270	ug/l	99
65) Chlorobenzene	11.43	112	1543465	52.658	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	537364	52.720	ug/l	100
67) Ethyl Benzene	11.51	91	2687723	53.320	ug/l	100
68) m/p-Xylenes	11.62	106	2038370	106.372	ug/l	100
69) o-Xylene	11.95	106	995852	54.157	ug/l	100
70) Styrene	11.96	104	1655722	55.220	ug/l	100
71) Bromoform	12.13	173	372847	50.635	ug/l #	99
73) Isopropylbenzene	12.25	105	2644501	52.508	ug/l	99
74) N-amyl acetate	12.07	43	700929	50.128	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	549484	55.612	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	483655m	44.634	ug/l	
77) Bromobenzene	12.53	156	679866	51.931	ug/l	98
78) n-propylbenzene	12.59	91	3048893	53.154	ug/l	99
79) 2-Chlorotoluene	12.67	91	1784400	50.188	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2133628	51.975	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	169447	50.401	ug/l	97
82) 4-Chlorotoluene	12.77	91	1842699	52.944	ug/l	100
83) tert-Butylbenzene	12.99	119	1862748	51.307	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2154573	52.210	ug/l	100
85) sec-Butylbenzene	13.17	105	2505483	51.021	ug/l	99
86) p-Isopropyltoluene	13.29	119	2187758	51.558	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1200424	51.807	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1196323	50.984	ug/l	100
89) n-Butylbenzene	13.62	91	1853297	50.768	ug/l	100
90) Hexachloroethane	13.88	117	345450	53.051	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1125253	51.600	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	81109	47.476	ug/l	99

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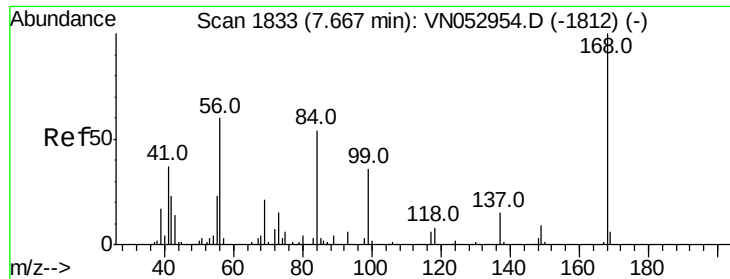
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	553672	47.947	ug/l	99
94) Hexachlorobutadiene	15.01	225	354223	59.775	ug/l	99
95) Naphthalene	15.13	128	1137293	45.053	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	484742	46.626	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 976172

Ion Ratio Lower Upper

168 100

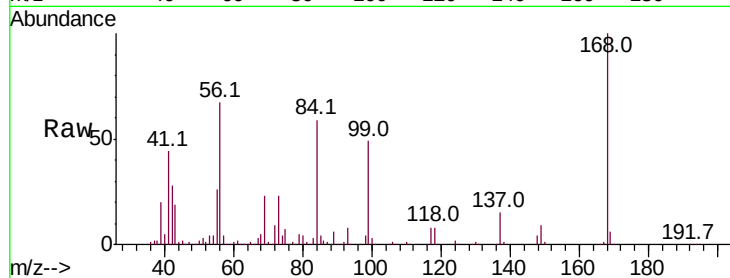
99 49.2 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

400000

300000

200000

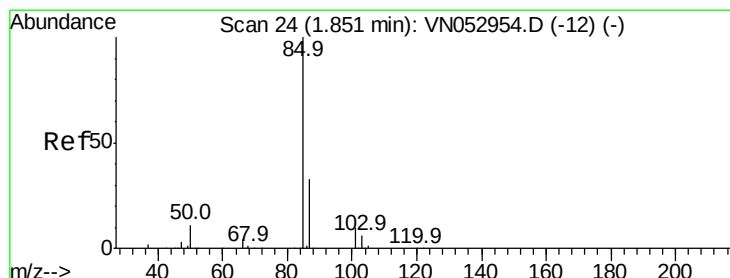
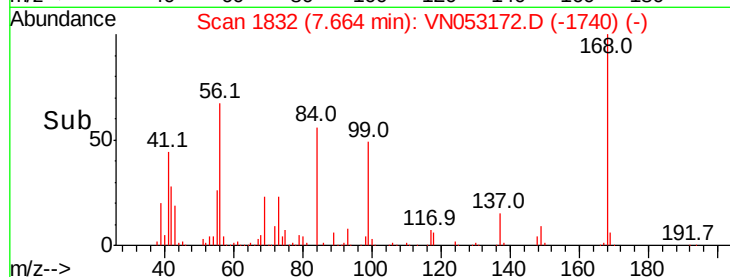
100000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 48.624 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053172.D

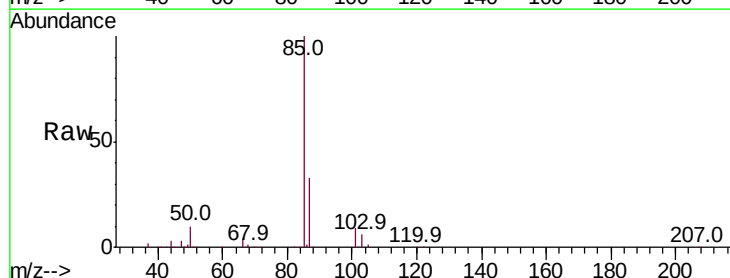
Acq: 24 Dec 2018 9:19

Tgt Ion: 85 Resp: 480385

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

400000

300000

200000

100000

0

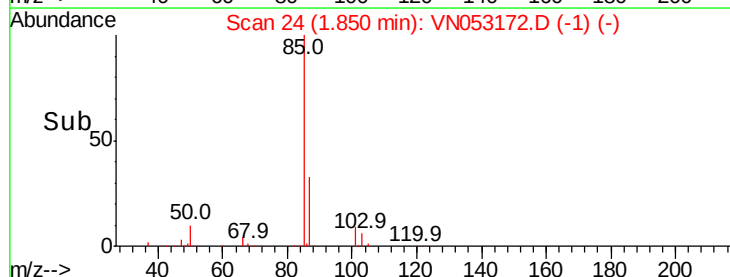
1.80

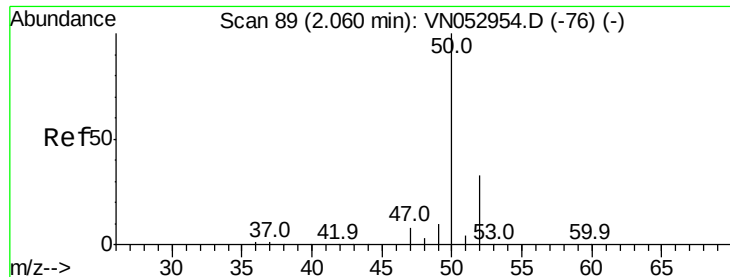
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 52.406 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 627409

Ion Ratio Lower Upper

50 100

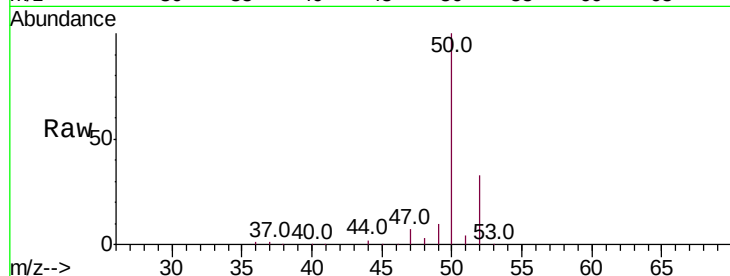
52 33.4 26.2 39.4

Manual Integrations

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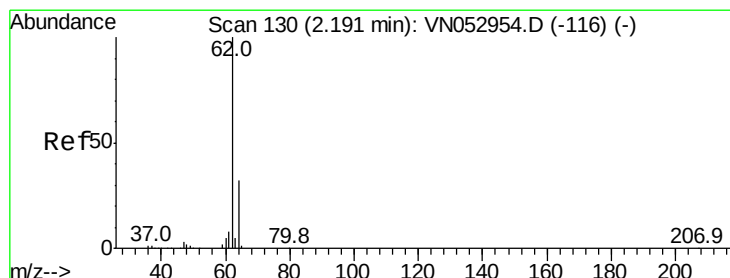
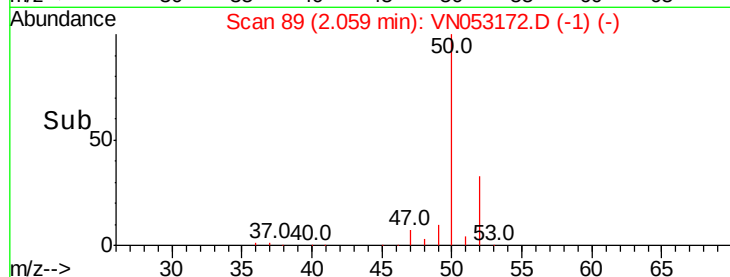
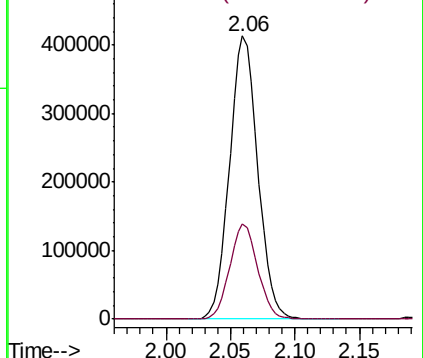
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 49.139 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053172.D

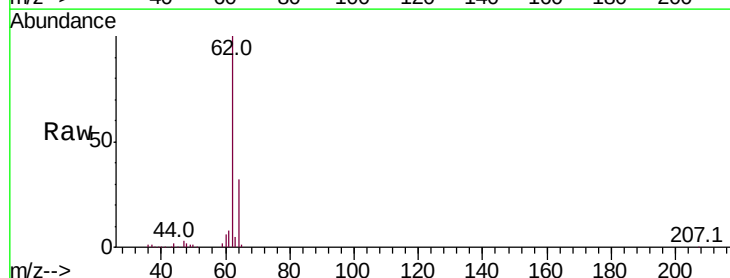
Acq: 24 Dec 2018 9:19

Tgt Ion: 62 Resp: 595801

Ion Ratio Lower Upper

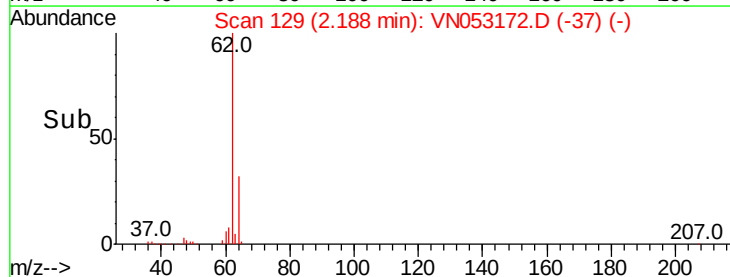
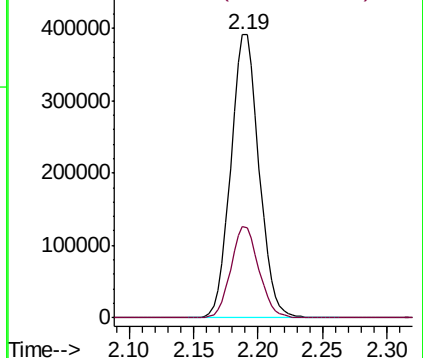
62 100

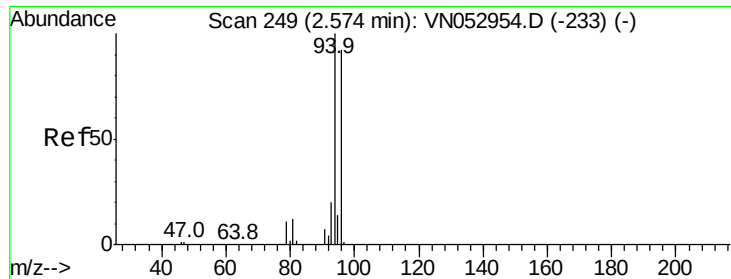
64 32.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 45.995 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 386383

Ion Ratio Lower Upper

94 100

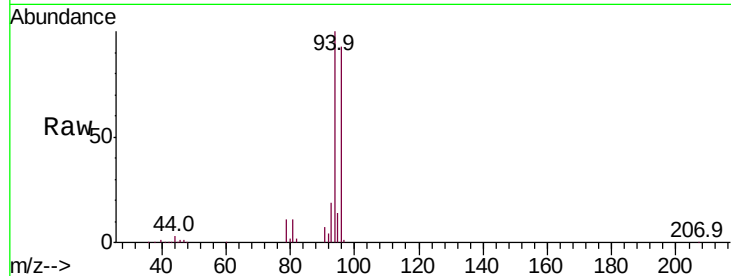
96 93.4 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

200000

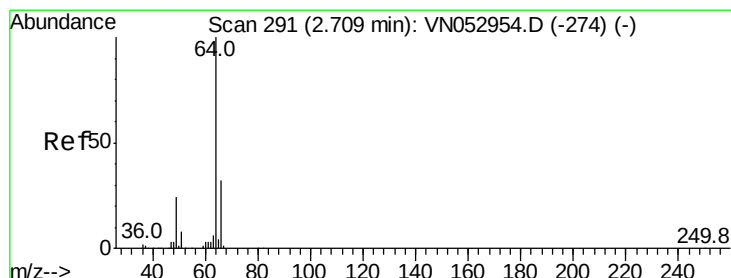
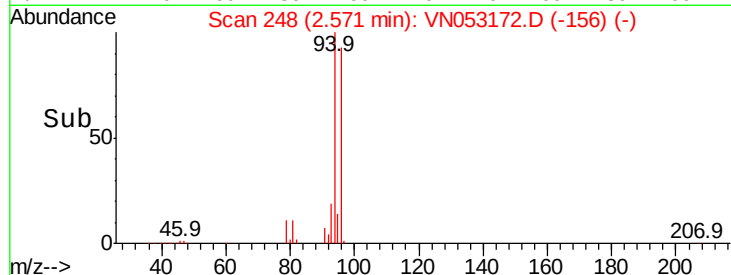
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 49.932 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053172.D

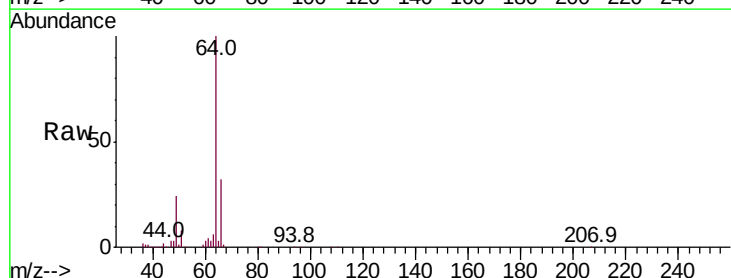
Acq: 24 Dec 2018 9:19

Tgt Ion: 64 Resp: 358558

Ion Ratio Lower Upper

64 100

66 31.5 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.71

200000

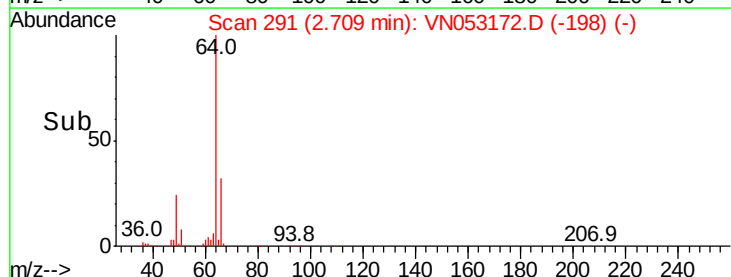
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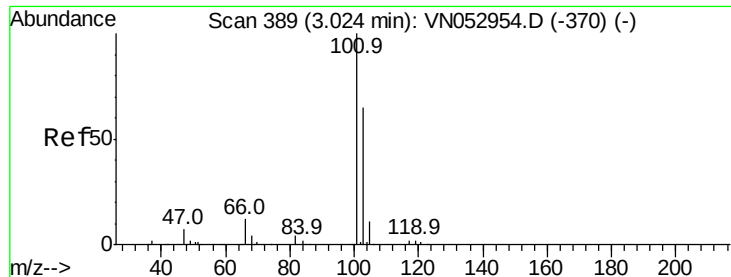
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50000

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Time-->





#7

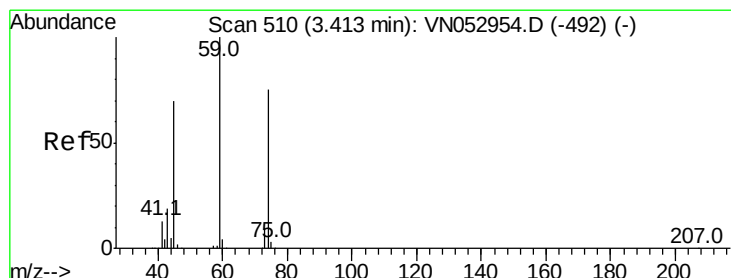
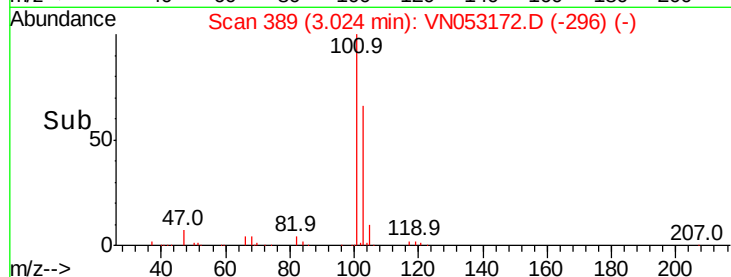
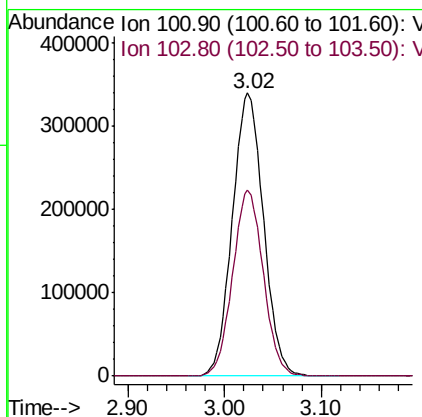
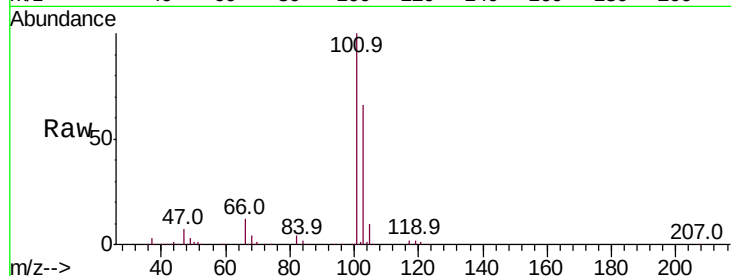
Trichlorofluoromethane
 Concen: 50.251 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.8	77.6

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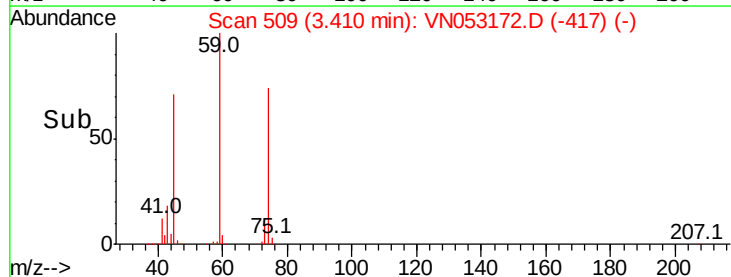
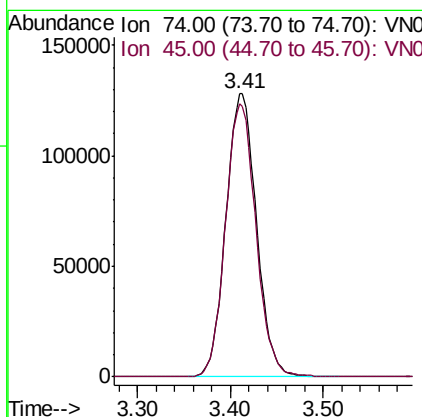
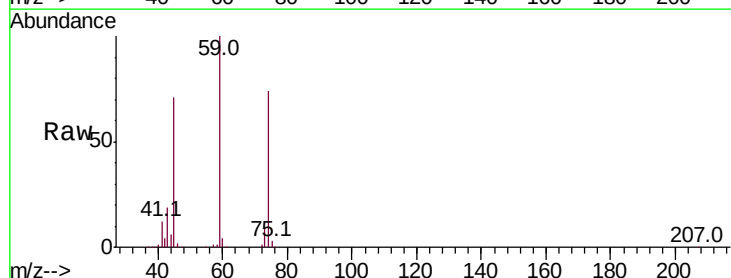
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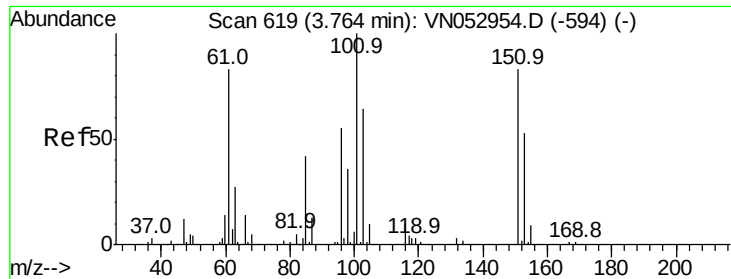


#8

Diethyl Ether
 Concen: 51.416 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.3	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.442 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

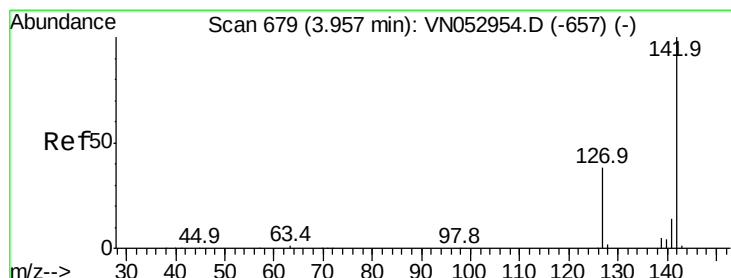
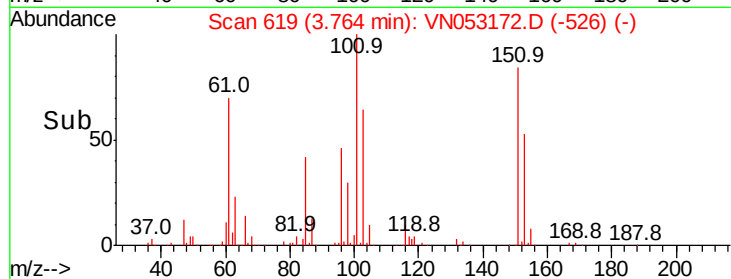
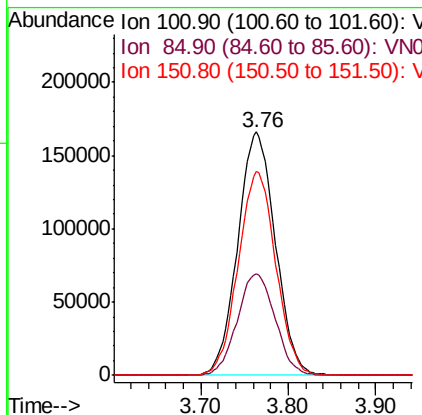
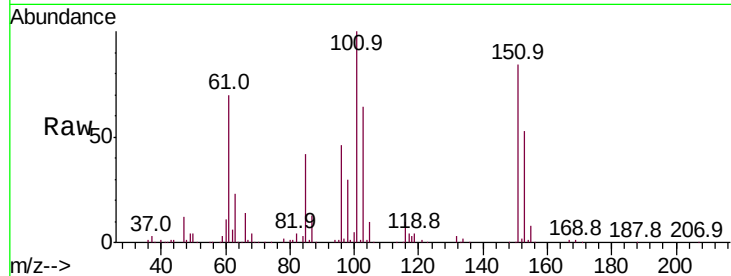
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	495416
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.6	50.4
151	83.5	65.5	98.3

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#10

Methyl Iodide

Concen: 45.023 ug/l

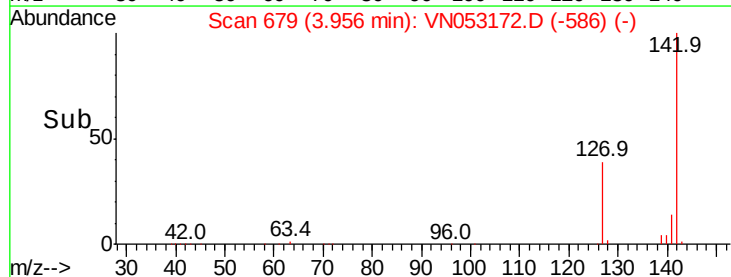
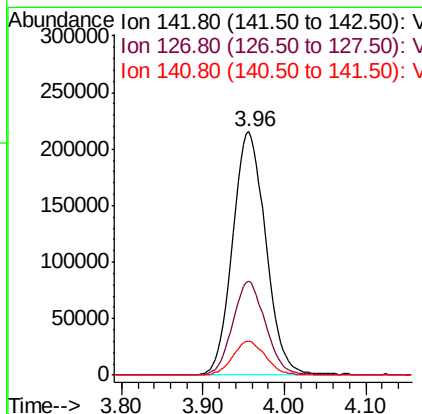
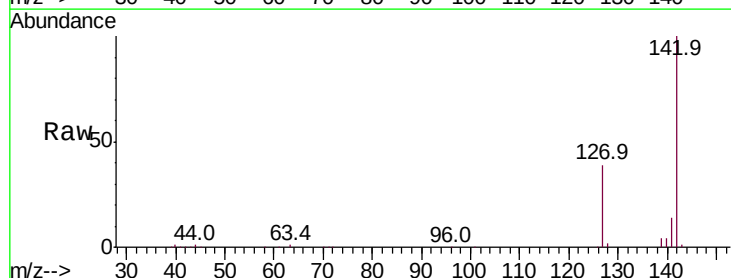
RT: 3.96 min Scan# 679

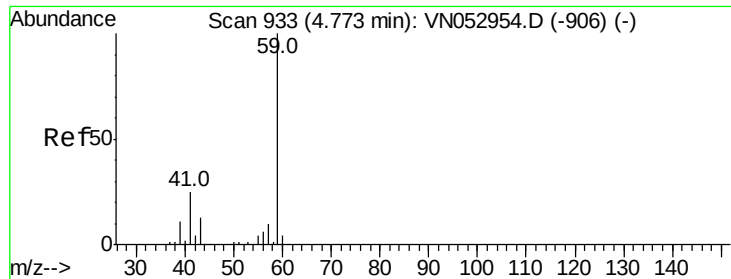
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	142	Resp:	608907
Ion Ratio	Lower	Upper	
142	100		
127	38.3	31.0	46.6
141	13.9	11.2	16.8





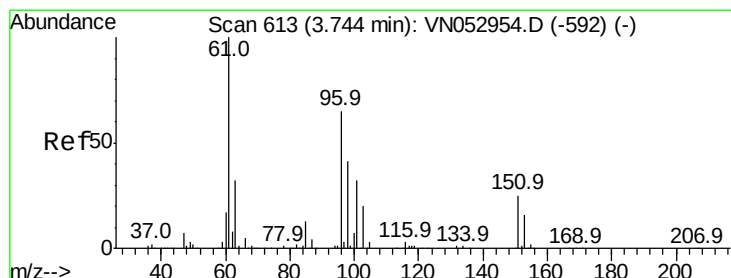
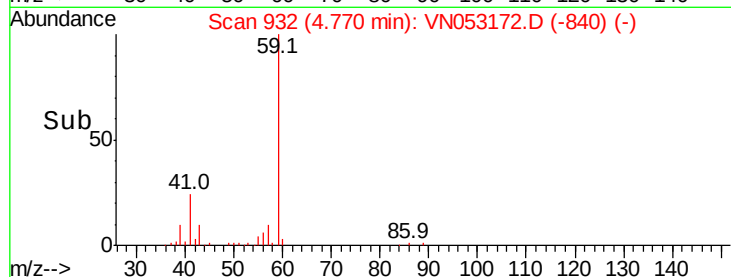
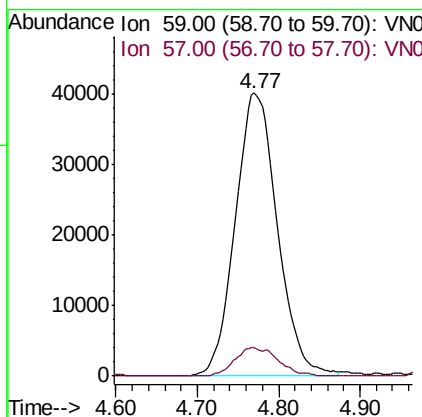
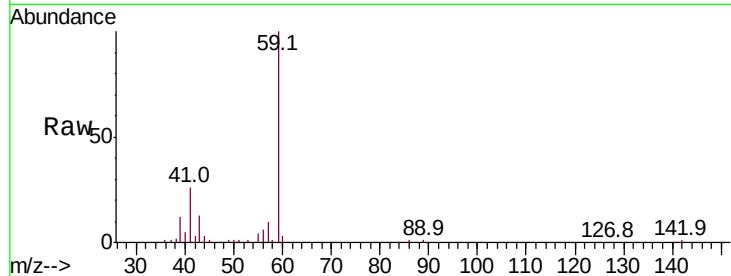
#11
Tert butyl alcohol
Concen: 238.080 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 143906
Ion Ratio Lower Upper
59 100
57 10.4 7.7 11.5

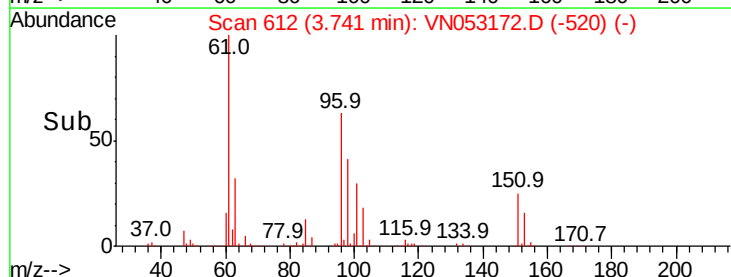
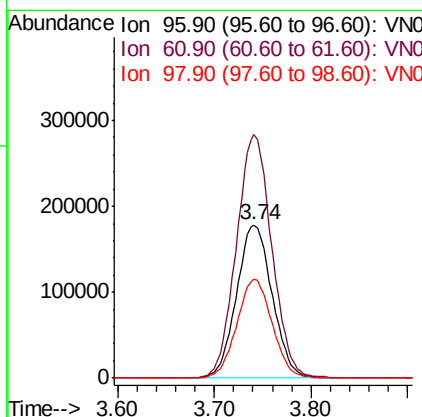
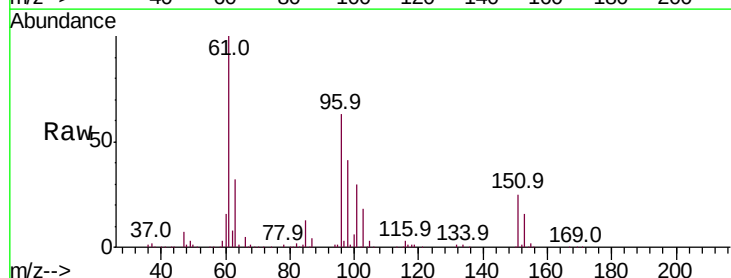
Manual Integrations
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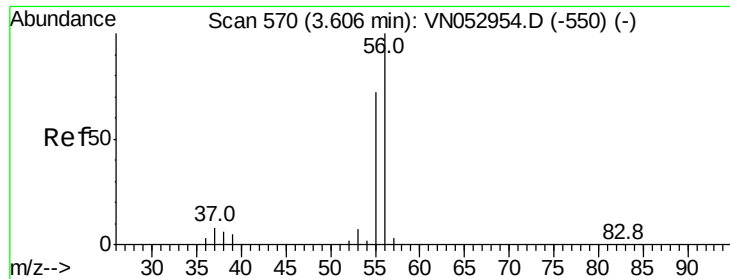
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#12
1,1-Dichloroethene
Concen: 49.062 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion: 96 Resp: 456486
Ion Ratio Lower Upper
96 100
61 159.4 125.6 188.4
98 65.0 50.6 75.8





#13

Acrolein

Concen: 305.539 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 167458

Ion Ratio Lower Upper

56 100

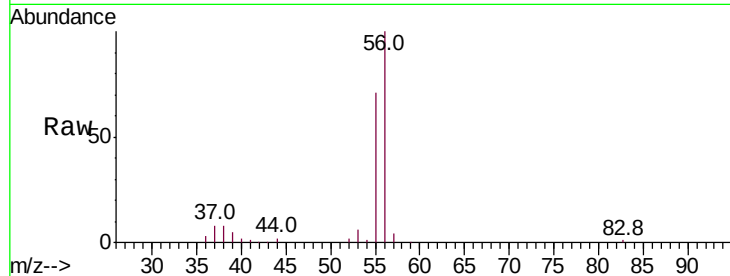
55 70.7 56.6 85.0

Manual Integrations

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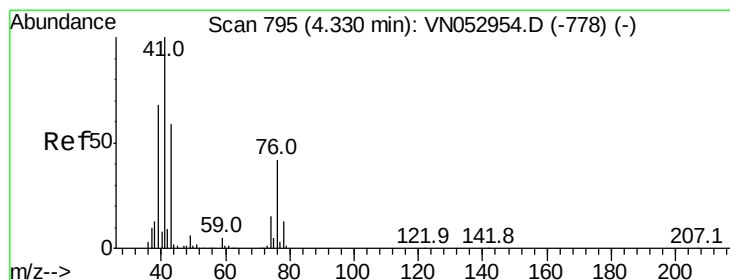
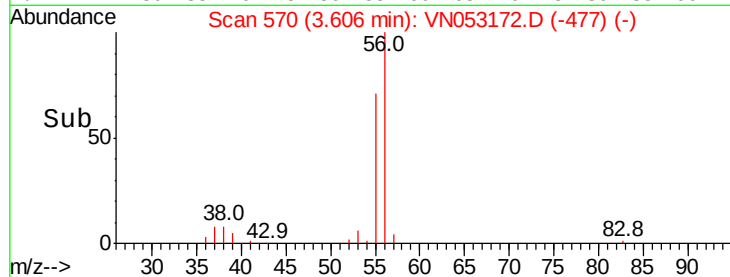
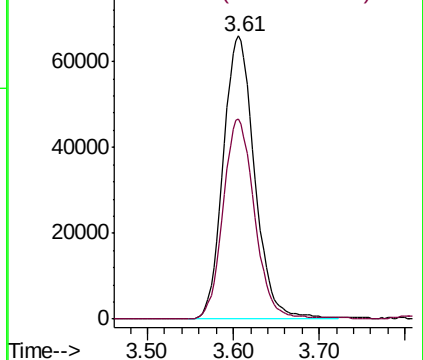
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 51.790 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

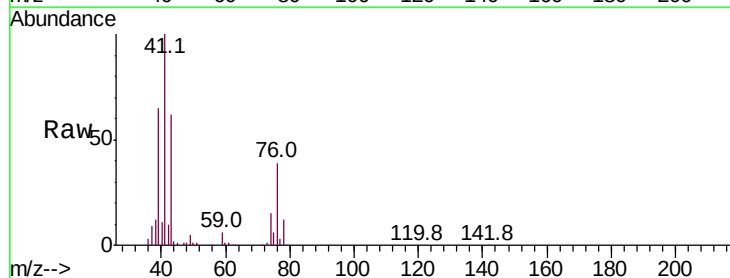
Tgt Ion: 41 Resp: 746392

Ion Ratio Lower Upper

41 100

39 65.8 54.1 81.1

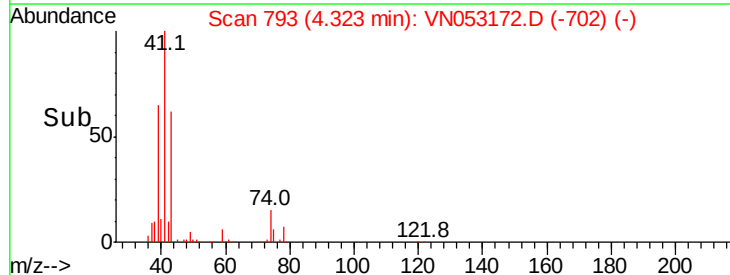
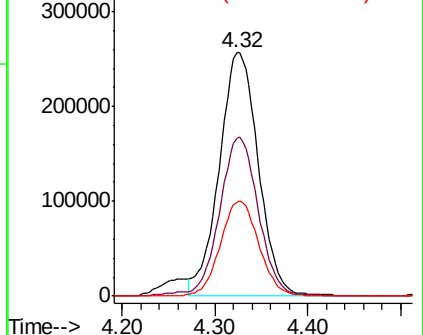
76 38.0 30.3 45.5

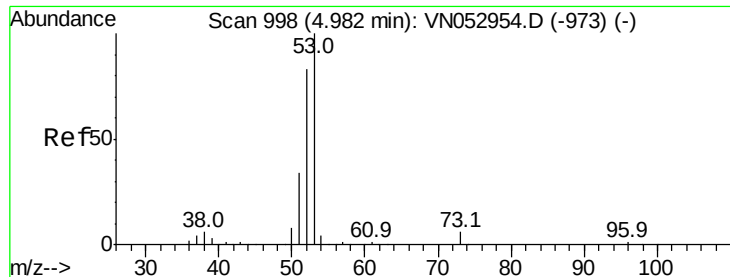


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 254.953 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

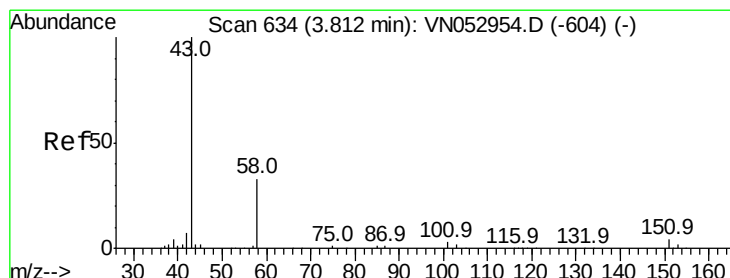
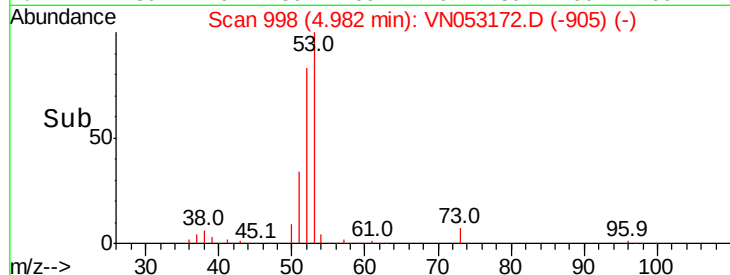
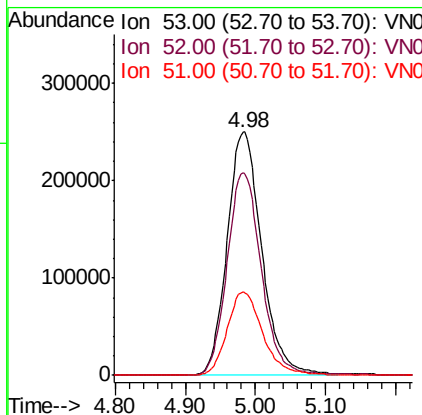
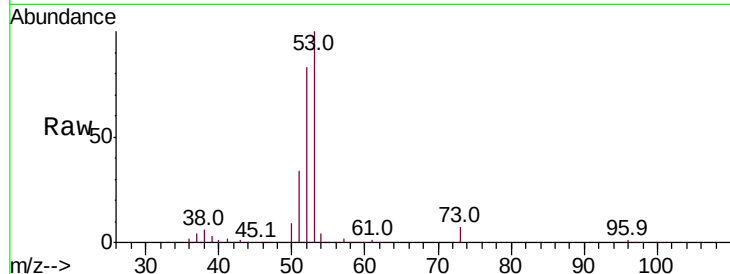
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	856129
Ion Ratio	Lower	Upper	
53	100		
52	82.4	65.1	97.7
51	35.5	28.1	42.1

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#16

Acetone

Concen: 242.263 ug/l

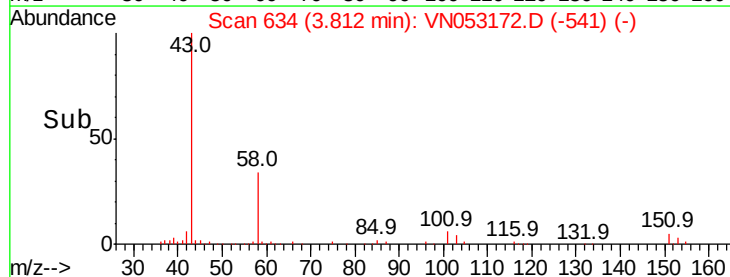
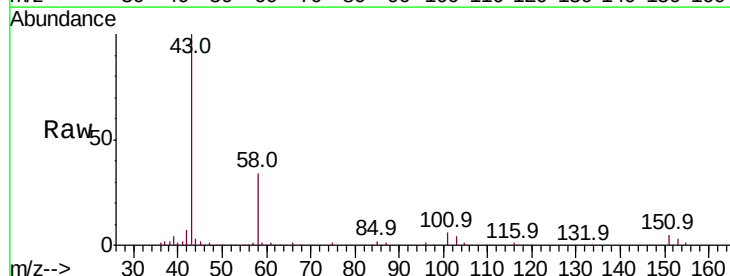
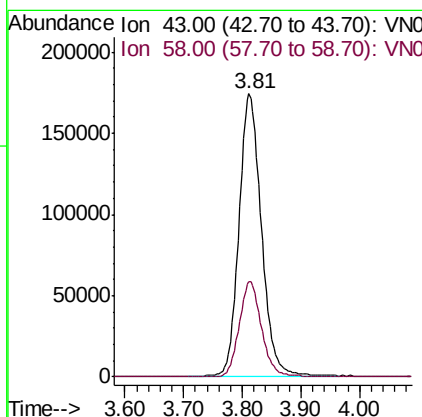
RT: 3.81 min Scan# 634

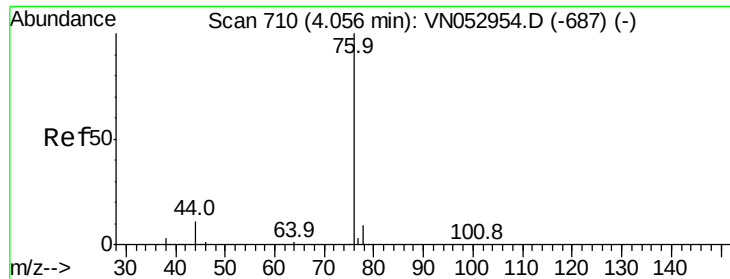
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	43	Resp:	470551
Ion Ratio	Lower	Upper	
43	100		
58	33.5	25.4	38.0





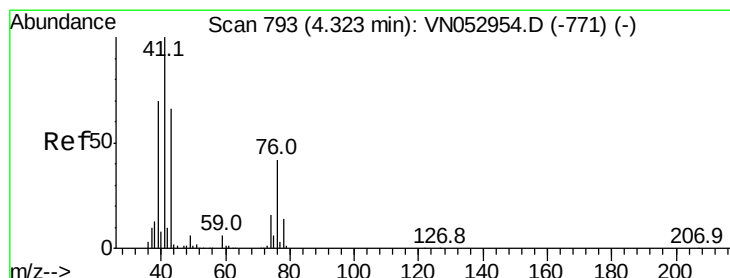
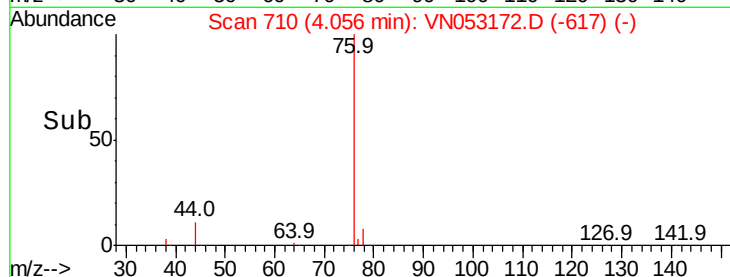
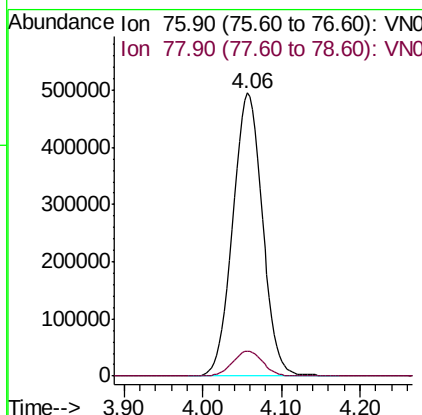
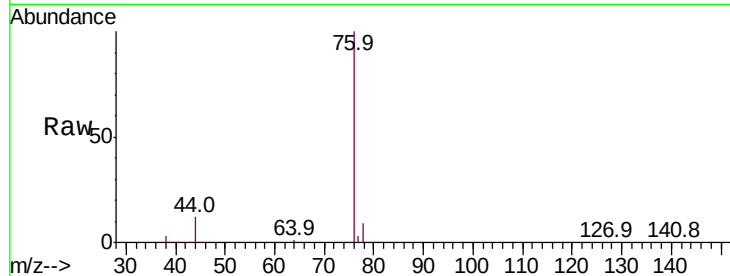
#17
Carbon Disulfide
Concen: 42.997 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1304662
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

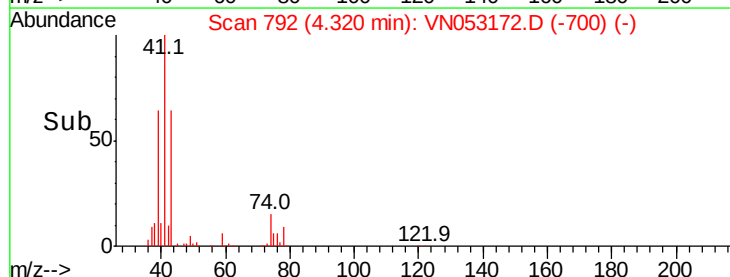
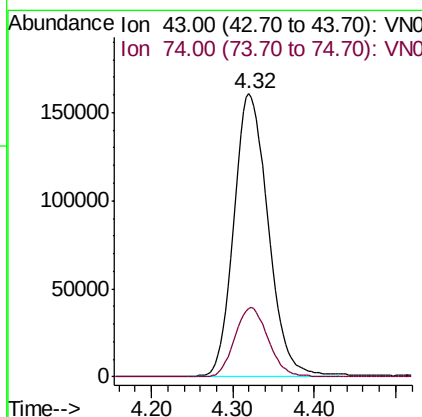
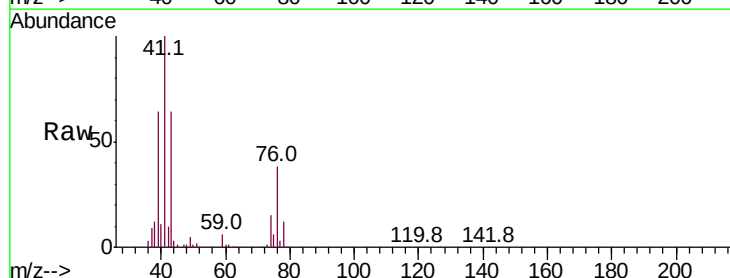
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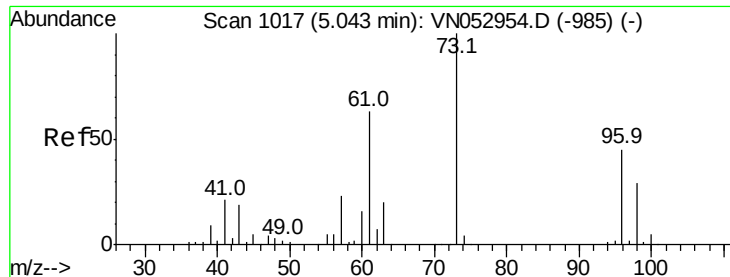
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#18
Methyl Acetate
Concen: 53.010 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion: 43 Resp: 467853
Ion Ratio Lower Upper
43 100
74 24.1 19.2 28.8





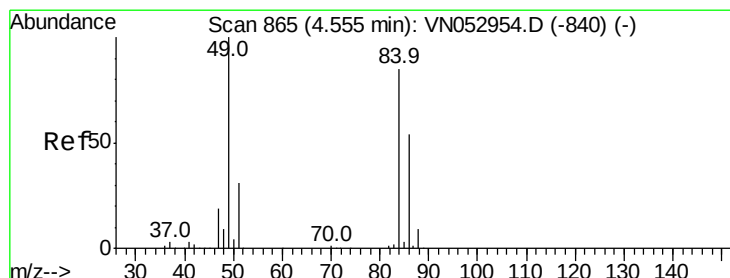
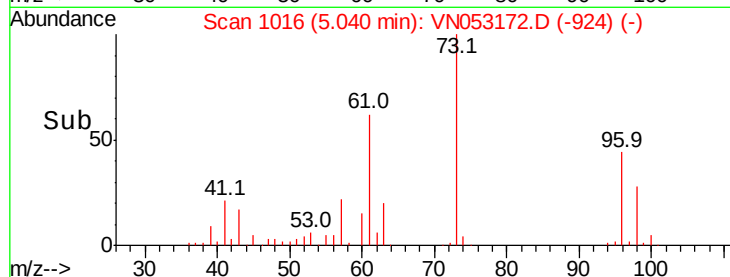
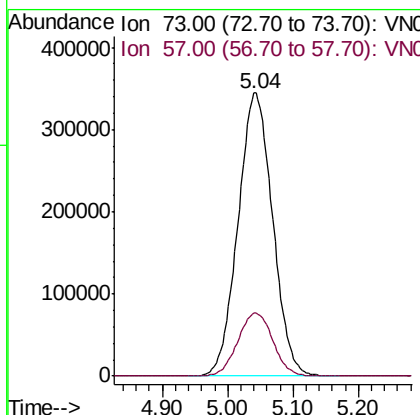
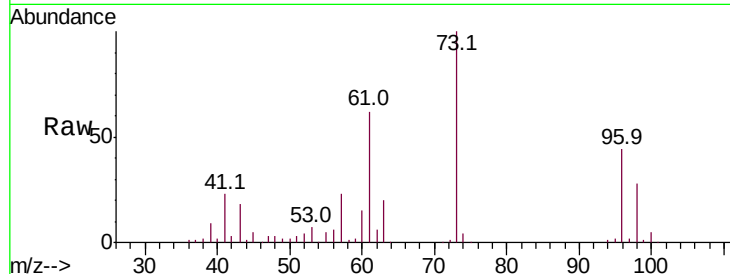
#19
Methyl tert-butyl Ether
Concen: 50.952 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1268634
Ion Ratio Lower Upper
73 100
57 22.5 18.4 27.6

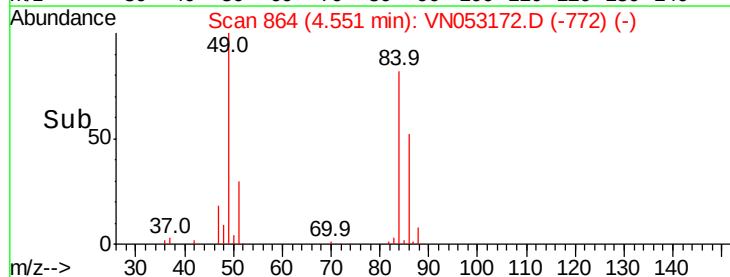
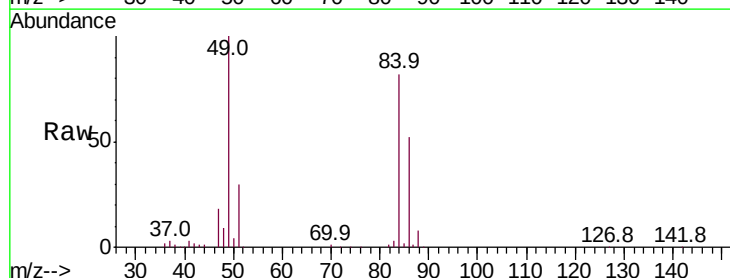
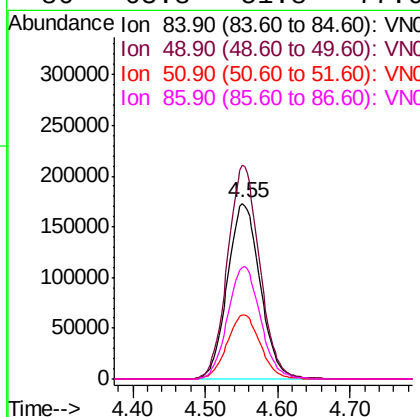
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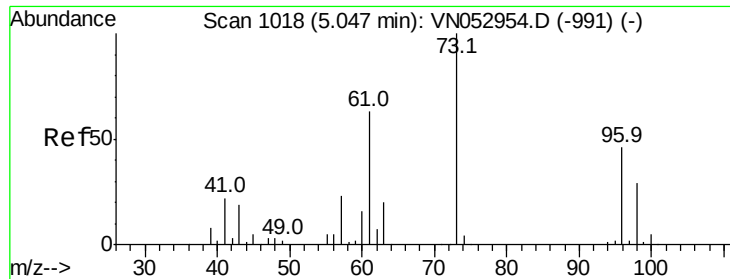
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#20
Methylene Chloride
Concen: 51.377 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion: 84 Resp: 544339
Ion Ratio Lower Upper
84 100
49 121.6 96.8 145.2
51 36.4 29.9 44.9
86 63.8 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 49.231 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 492135

Ion Ratio Lower Upper

96 100

61 140.5 110.8 166.2

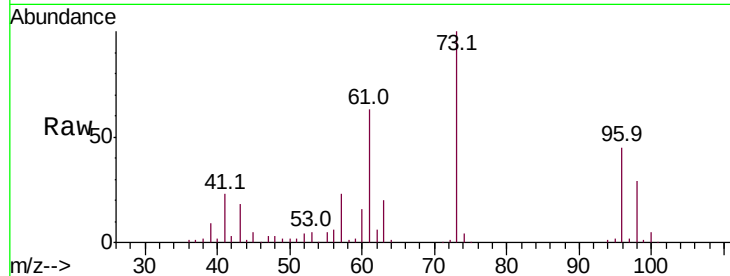
98 64.5 51.4 77.2

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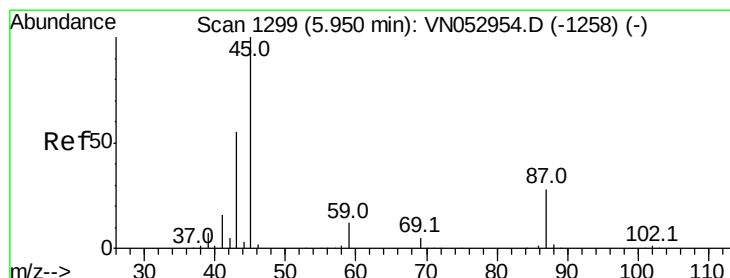
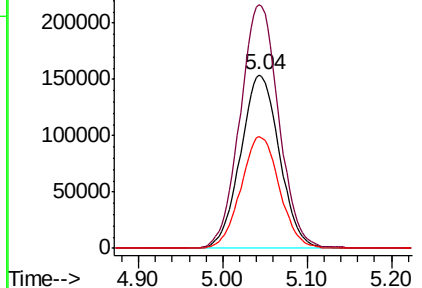
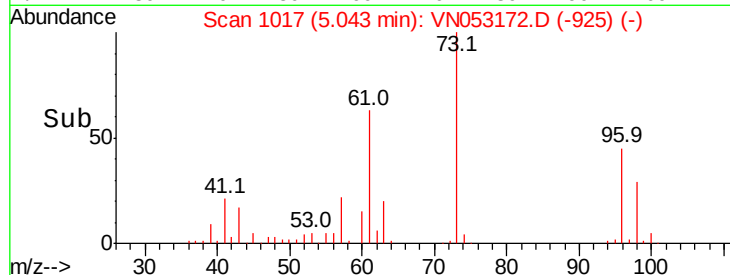


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 54.115 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion: 45 Resp: 1664721

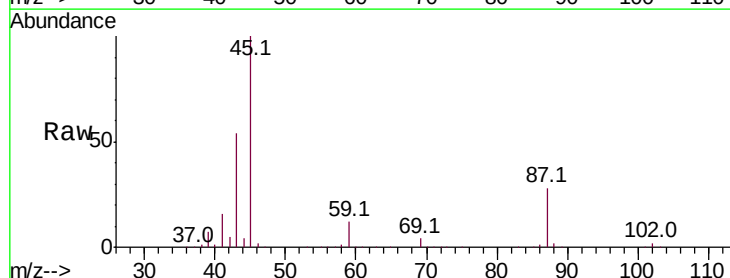
Ion Ratio Lower Upper

45 100

43 54.0 45.5 68.3

87 27.9 22.0 33.0

59 11.8 9.4 14.0



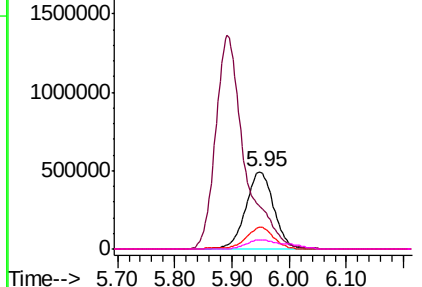
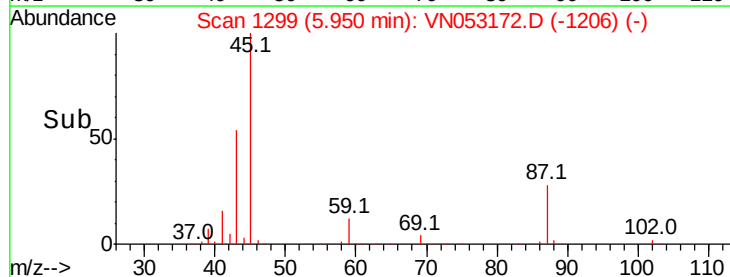
Abundance

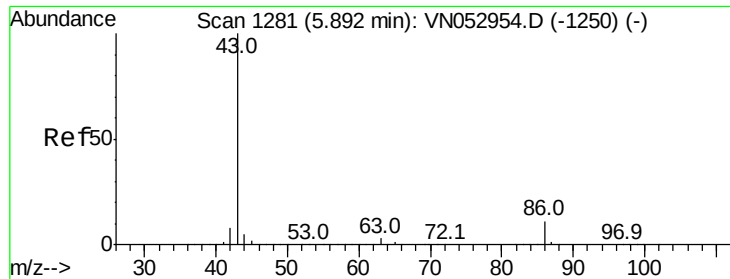
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 269.602 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 4769081

Ion Ratio Lower Upper

43 100

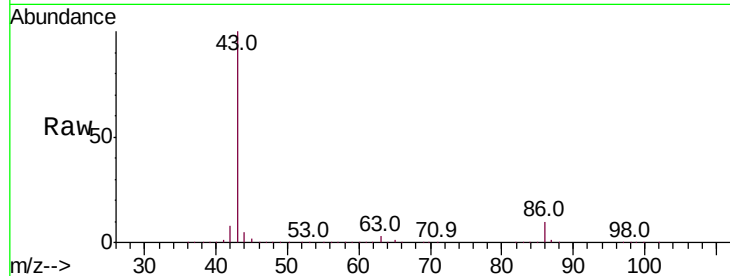
86 10.1 8.1 12.1

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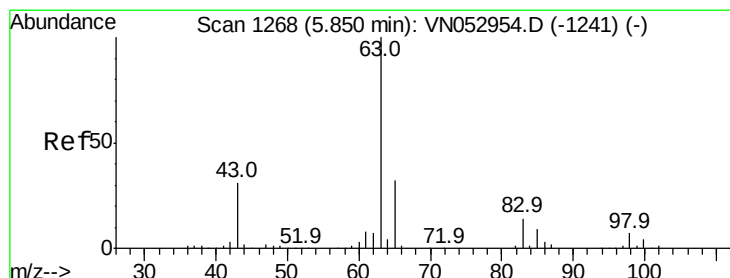
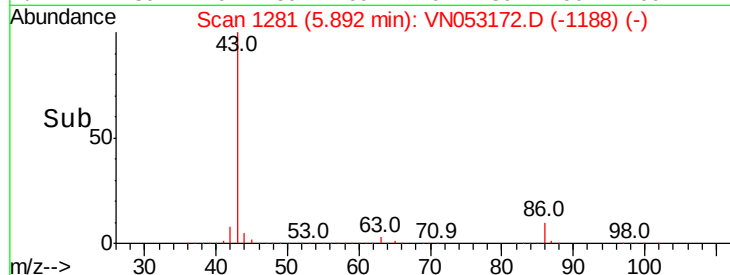
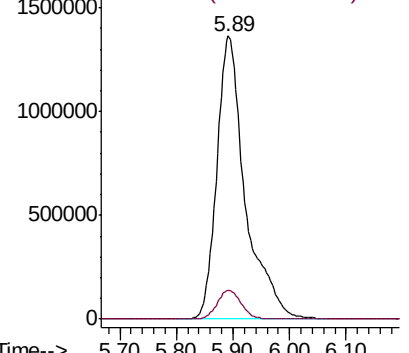
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 51.927 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

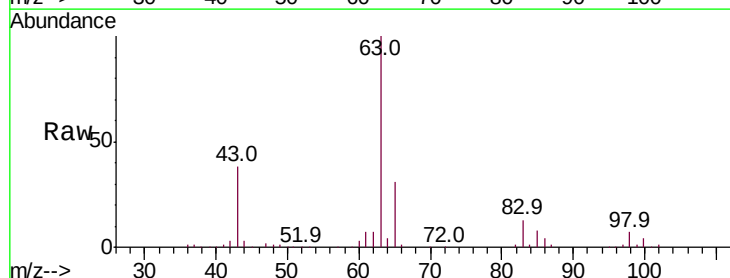
Tgt Ion: 63 Resp: 949217

Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.4

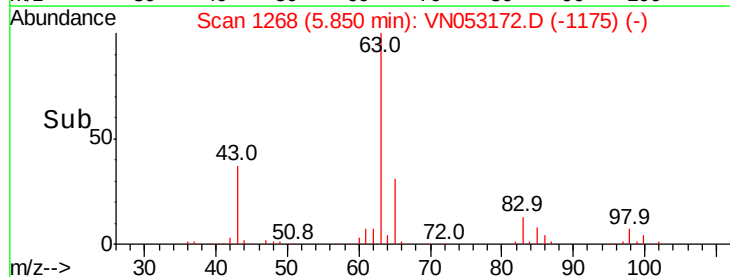
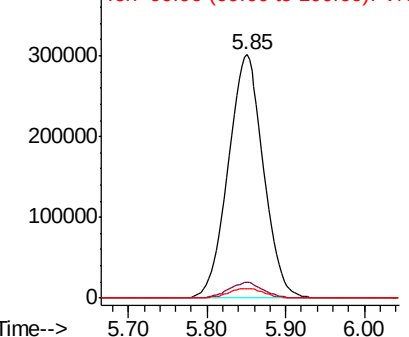
100 4.1 2.0 5.8

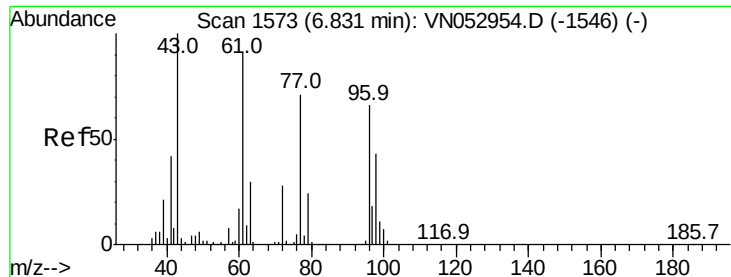


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





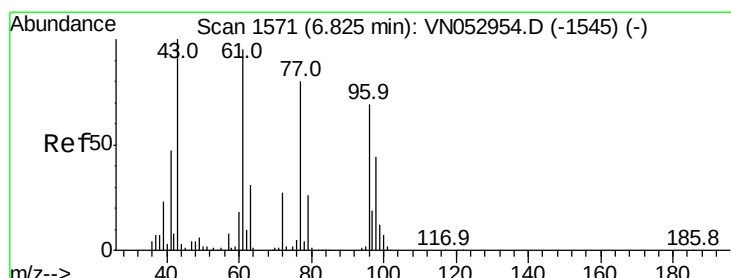
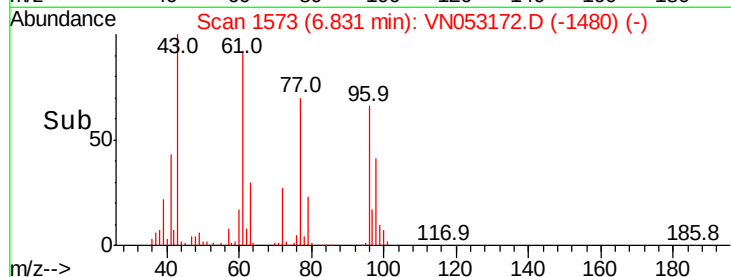
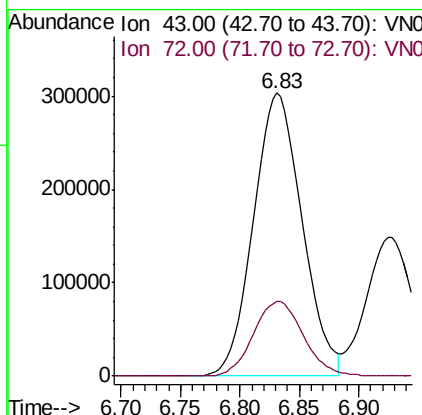
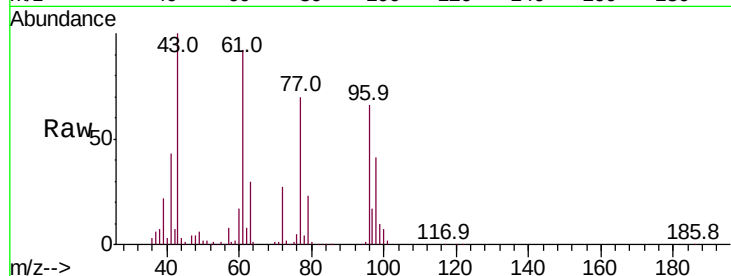
#25
 2-Butanone
 Concen: 262.405 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.0	31.6

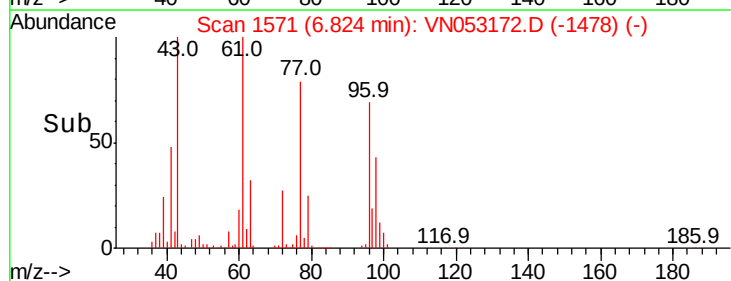
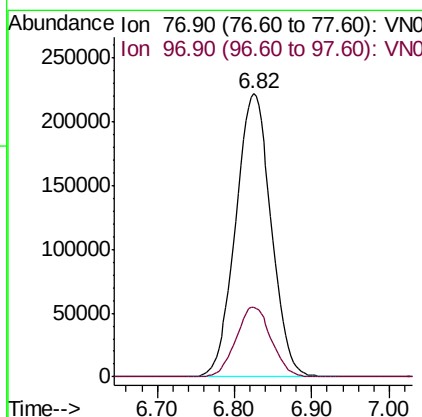
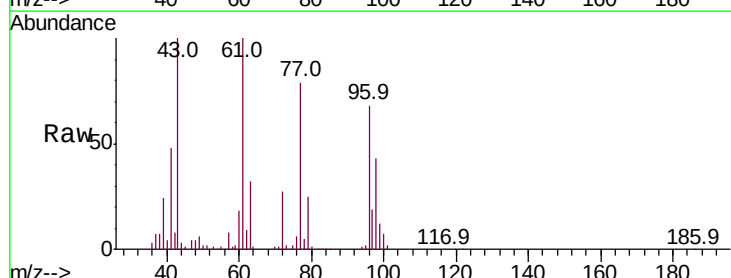
Manual Integrations
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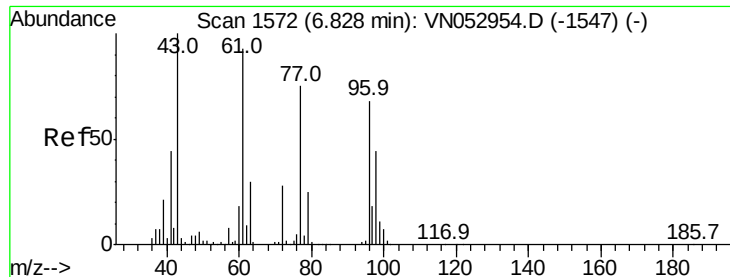
MMDadoda
 12/26/2018 10:53:25 AM



#26
 2,2-Dichloropropane
 Concen: 50.752 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
77	100		
97	24.5	11.9	35.9





#27

cis-1,2-Dichloroethene

Concen: 51.461 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

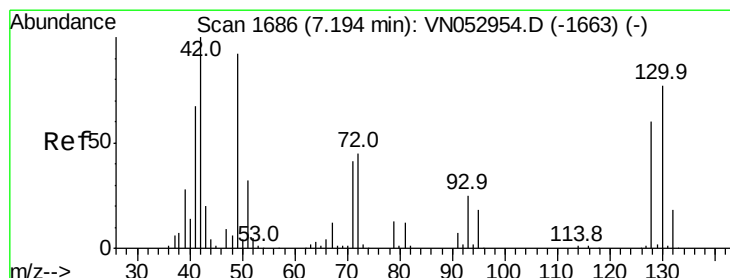
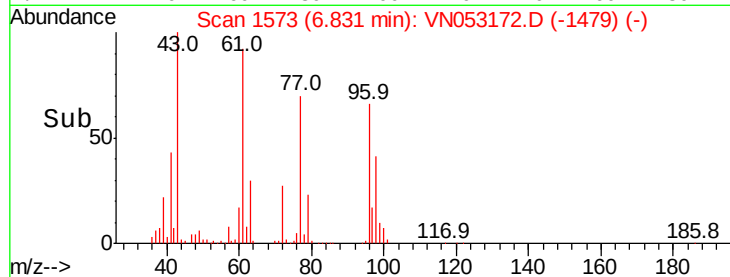
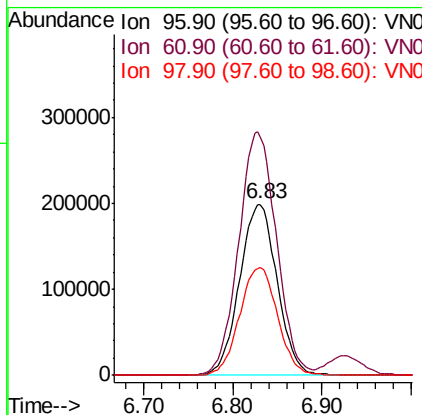
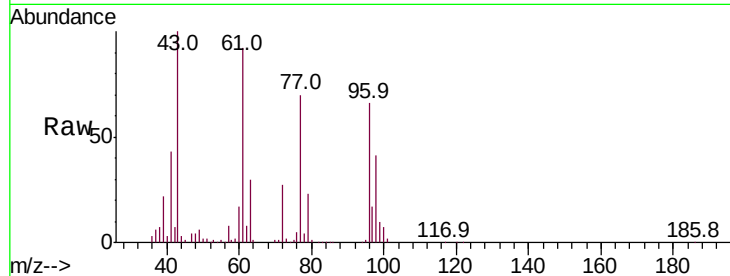
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	582393
Ion Ratio	Lower	Upper	
96	100		
61	143.0	0.0	284.2
98	63.8	0.0	129.2

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12/26/2018 10:53:25 AM



#28

Bromochloromethane

Concen: 50.171 ug/l

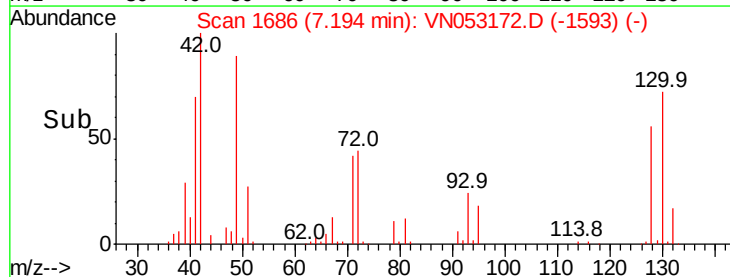
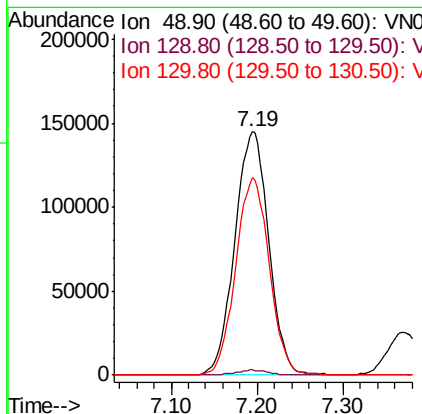
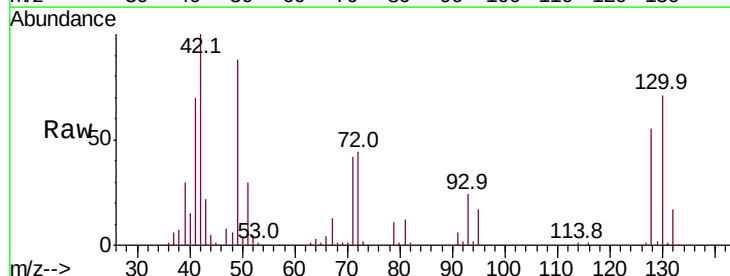
RT: 7.19 min Scan# 1686

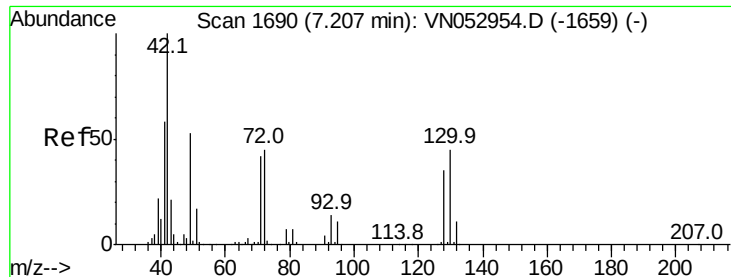
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	49	Resp:	397404
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	4.0
130	80.5	63.3	94.9





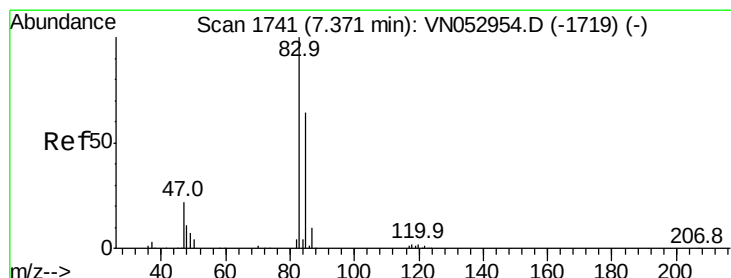
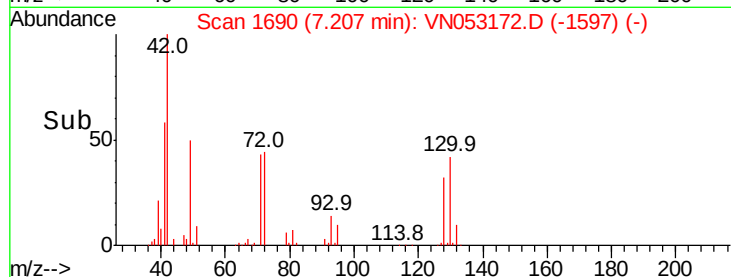
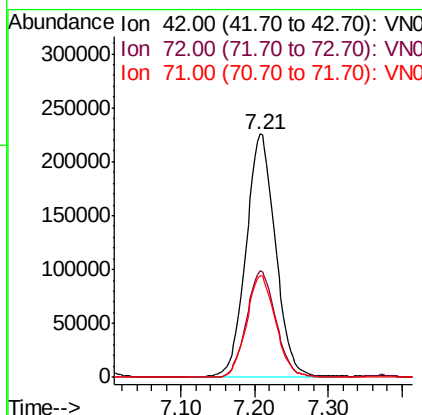
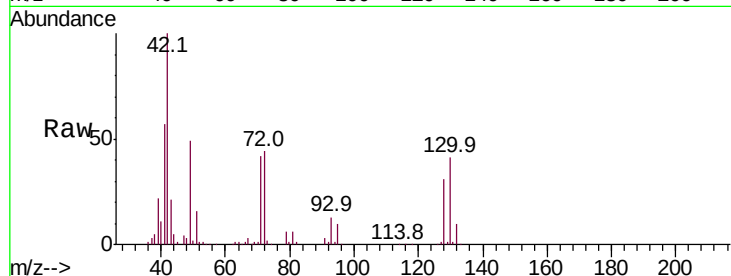
#29
Tetrahydrofuran
Concen: 257.857 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.7	52.1
71	41.3	32.3	48.5

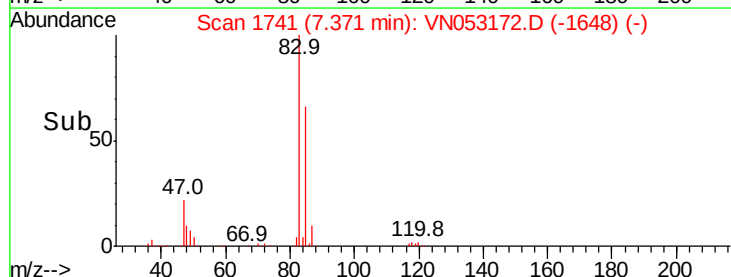
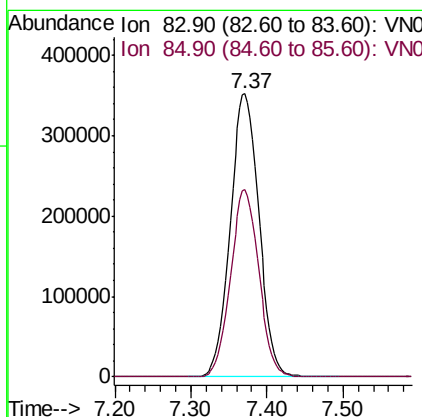
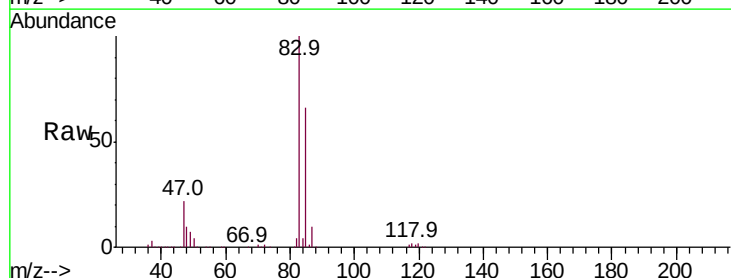
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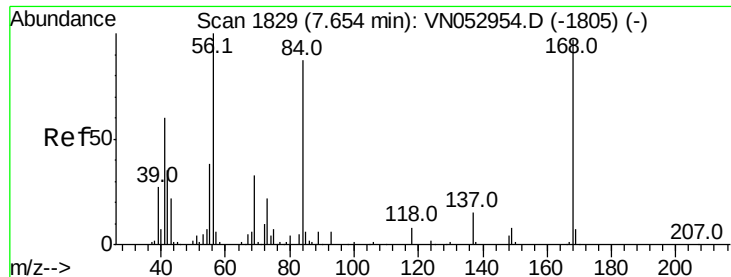
MMDadoda
12/26/2018 10:53:25 AM



#30
Chloroform
Concen: 51.473 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.1	78.1





#31

Cyclohexane

Concen: 51.724 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 886146

Ion Ratio Lower Upper

56 100

69 32.7 26.6 39.8

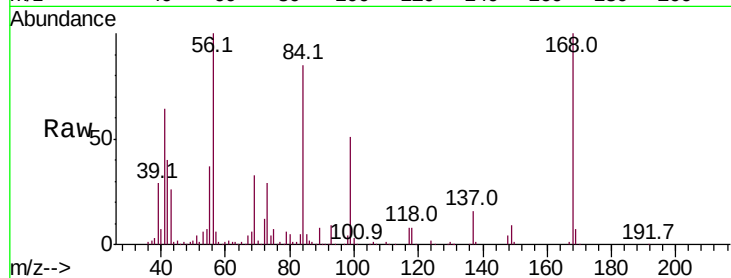
84 83.8 68.4 102.6

Manual Integrations

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MMDadoda

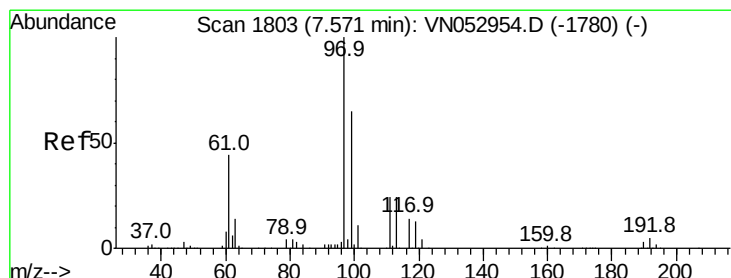
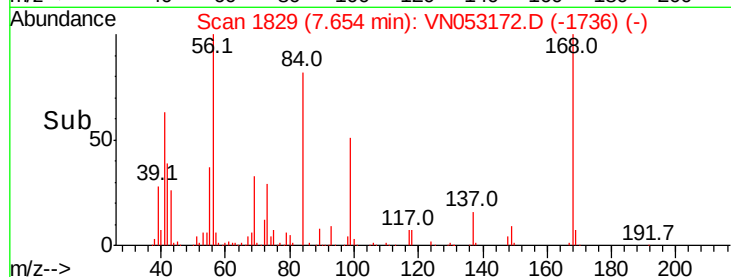
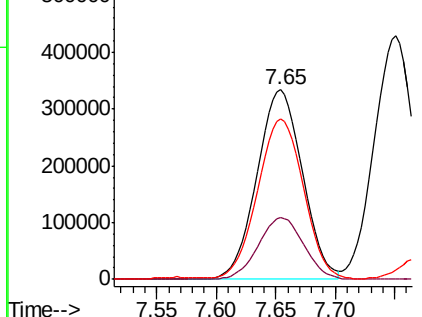
12/26/2018 10:53:25 AM



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 49.836 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

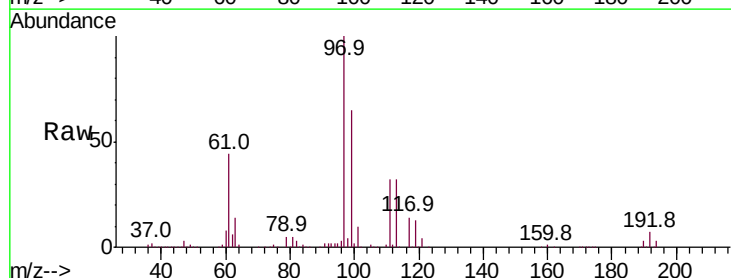
Tgt Ion: 97 Resp: 762362

Ion Ratio Lower Upper

97 100

99 64.4 51.1 76.7

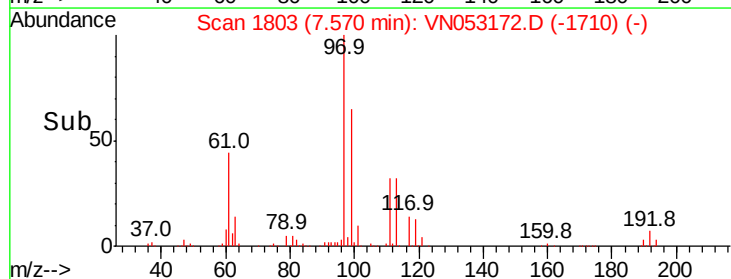
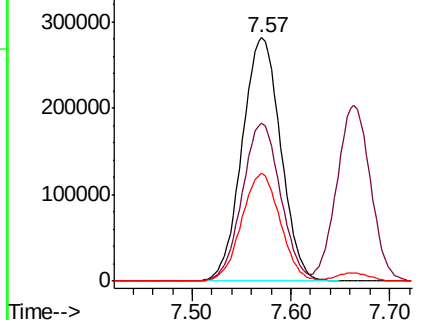
61 44.2 35.0 52.6

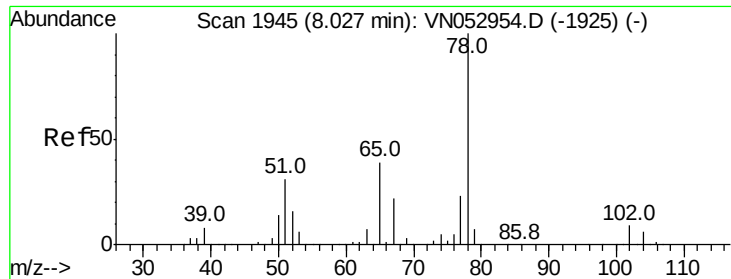


Abundance Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





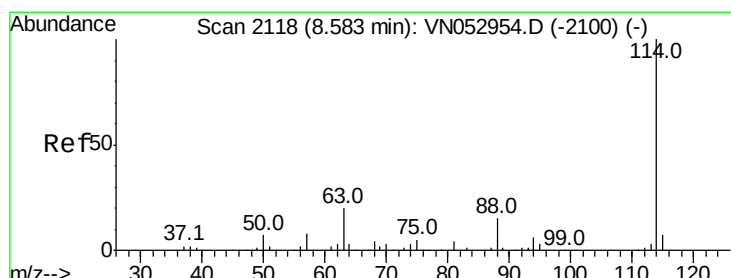
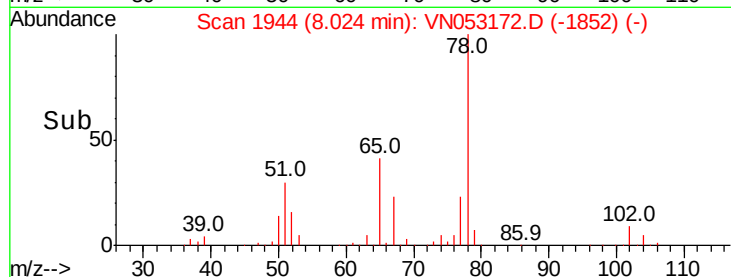
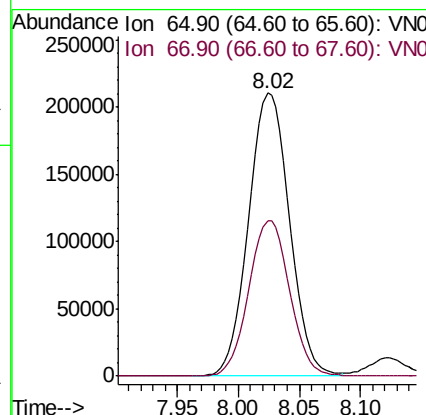
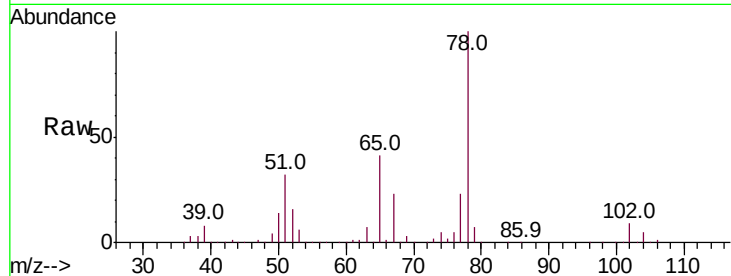
#33
 1,2-Dichloroethane-d4
 Concen: 49.836 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	490227		
67	54.7	0.0	110.4	

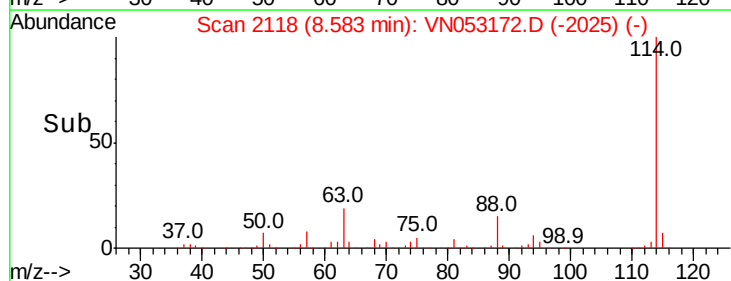
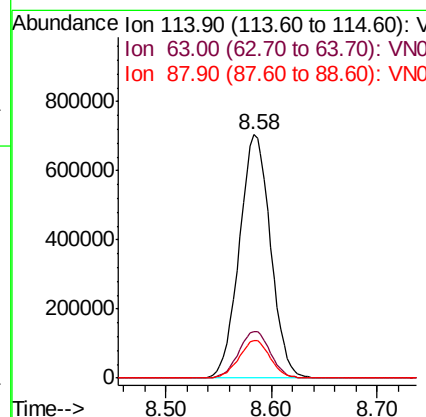
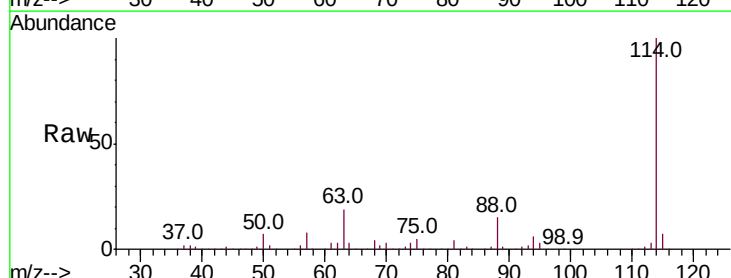
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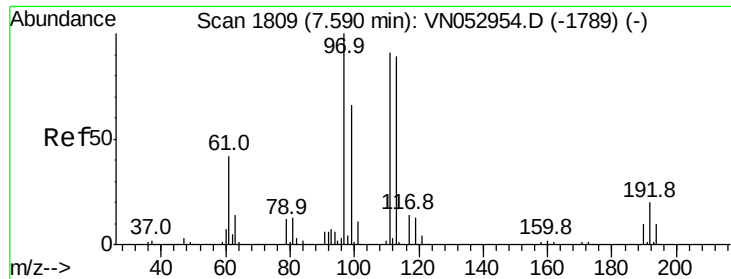
MMDadoda
 12/26/2018 10:53:25 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1447940		
63	19.3	0.0	39.8	
88	15.5	0.0	31.0	





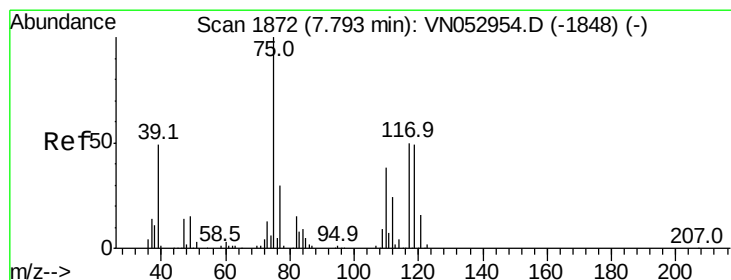
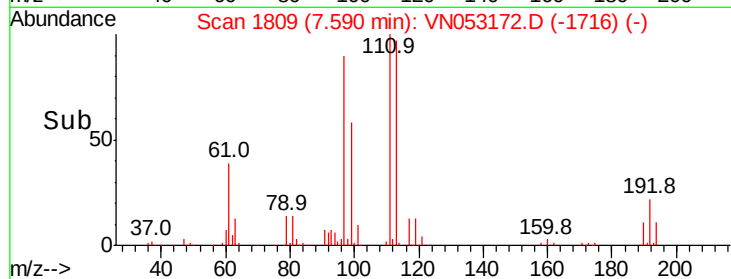
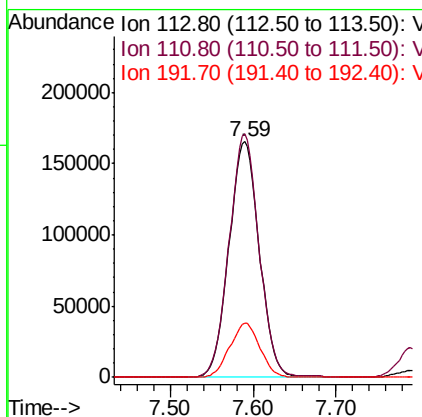
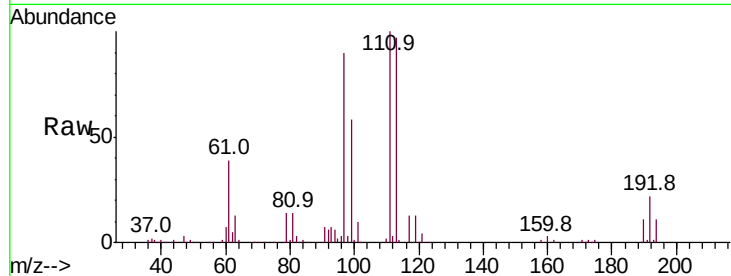
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.0	124.4
192	22.8	17.5	26.3

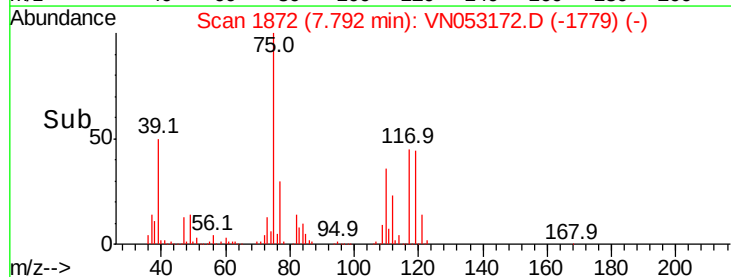
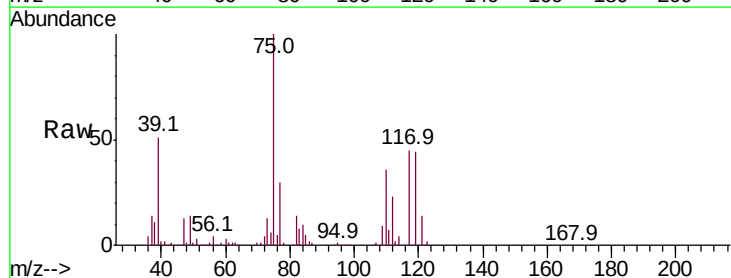
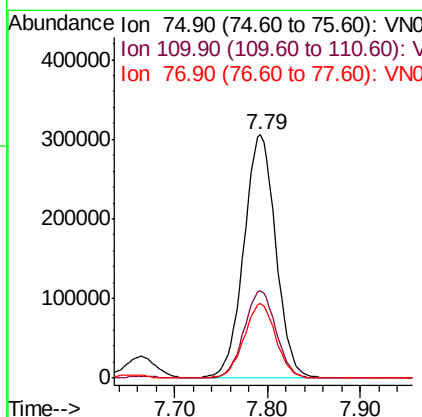
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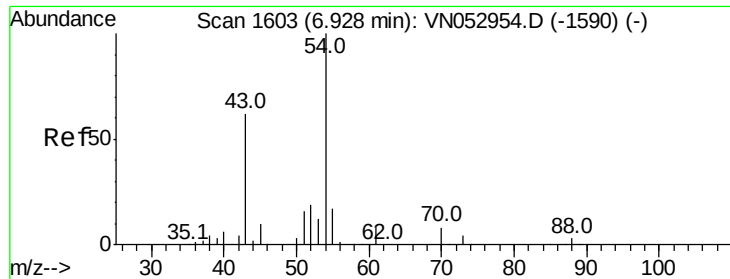
MMDadoda
 12/26/2018 10:53:25 AM



#36
 1,1-Dichloropropene
 Concen: 52.314 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.2	54.6
77	30.6	24.9	37.3





#37

Ethyl Acetate

Concen: 53.834 ug/l

RT: 6.92 min Scan# 1602

Delta R.T. -0.00 min

Lab File: VN053172.D

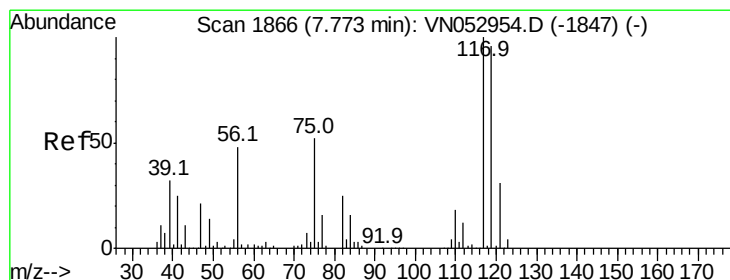
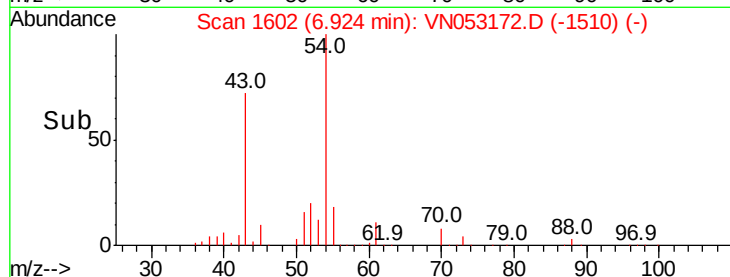
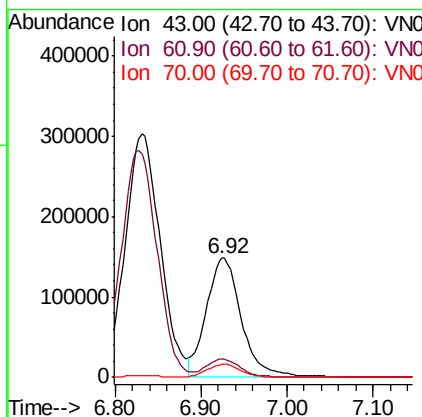
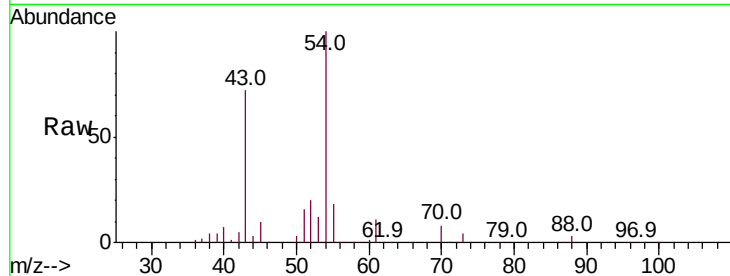
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	10.2	8.4	12.6

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#38

Carbon Tetrachloride

Concen: 52.209 ug/l

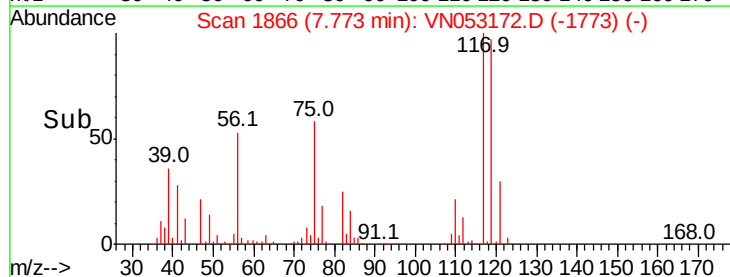
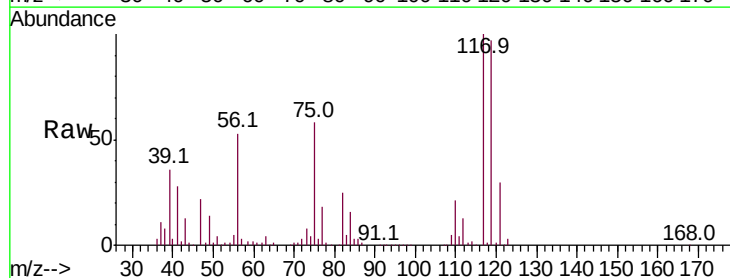
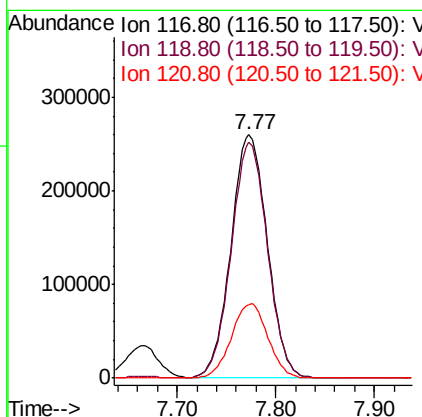
RT: 7.77 min Scan# 1866

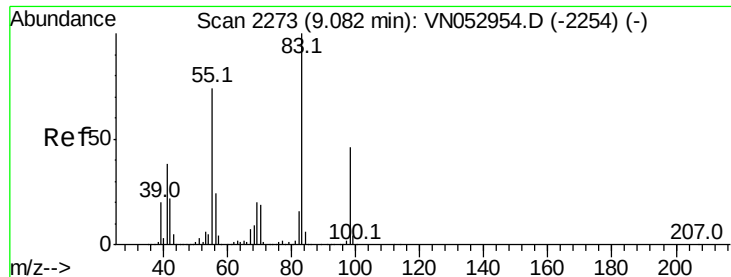
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	77.1	115.7
121	30.4	24.9	37.3





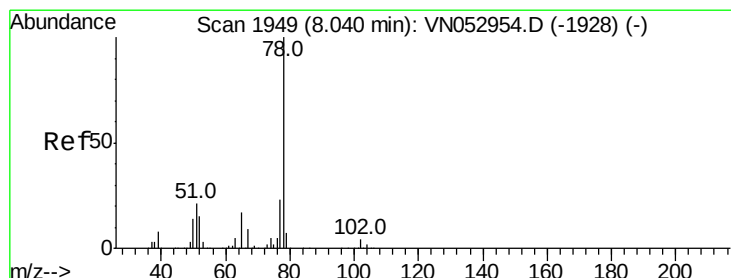
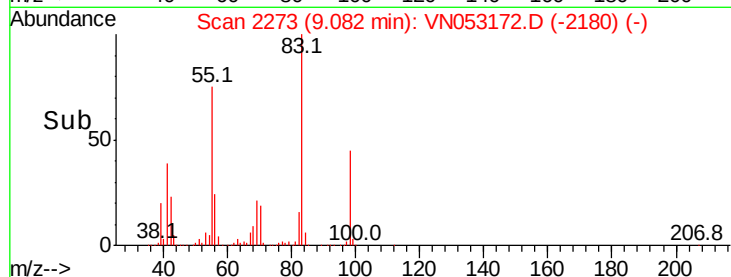
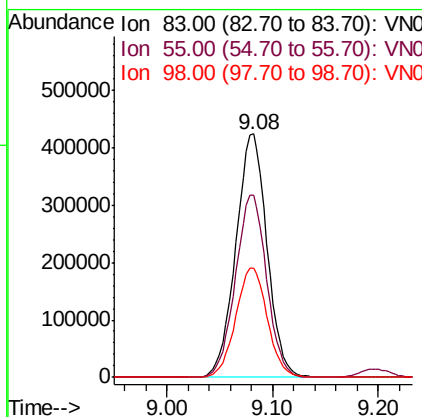
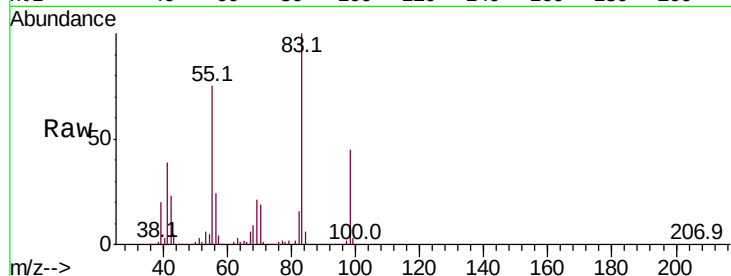
#39
Methylvlcyclohexane
Concen: 51.543 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	870190		
55	74.7		61.3	91.9
98	44.8		37.0	55.4

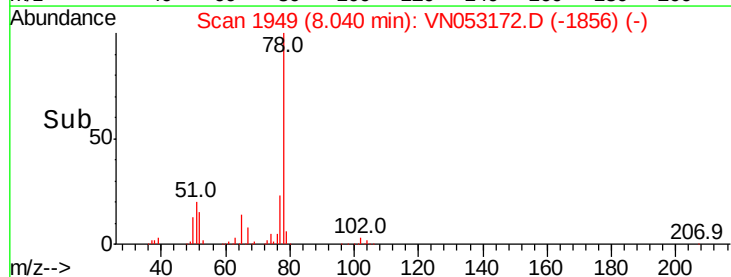
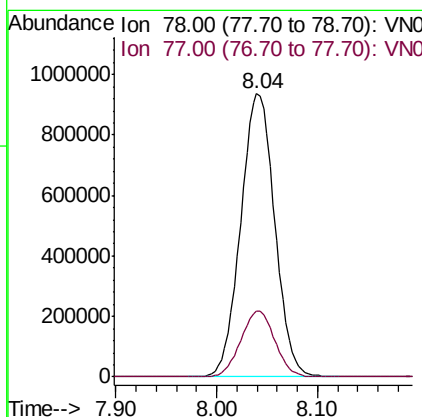
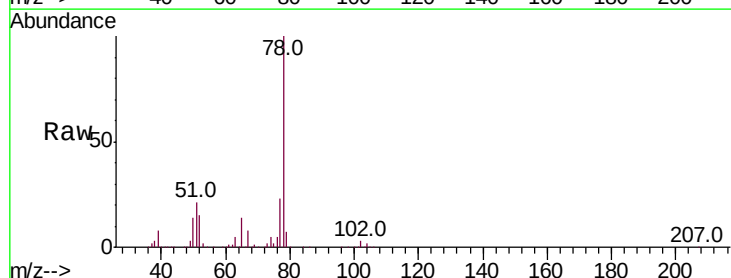
Manual Integrations
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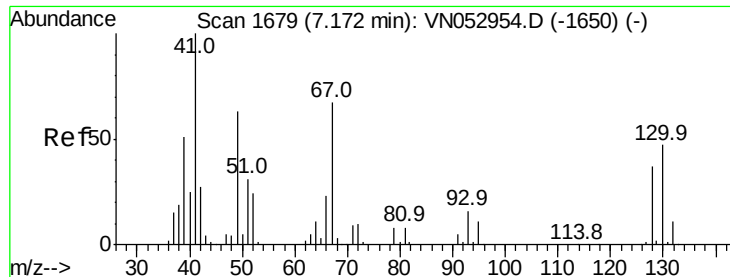
MMDadoda
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#40
Benzene
Concen: 52.848 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	2184681		
77	23.1		18.5	27.7





#41

Methacrylonitrile

Concen: 60.644 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 271850

Ion Ratio Lower Upper

41 100

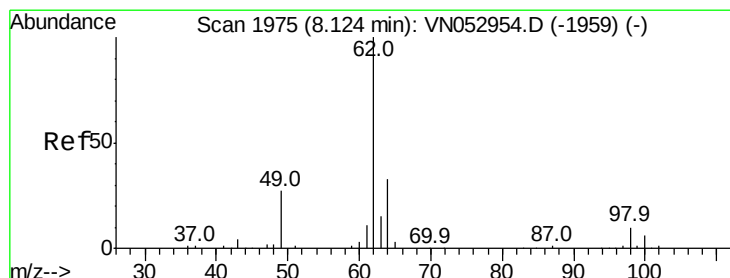
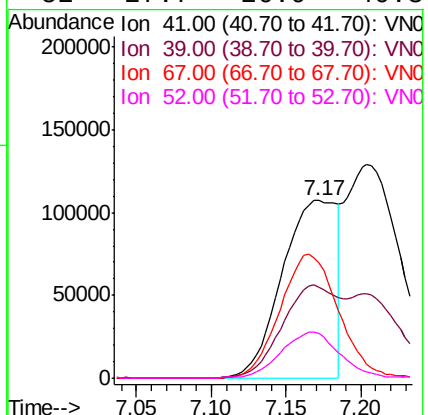
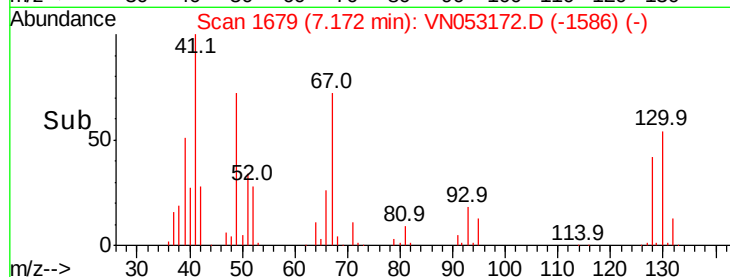
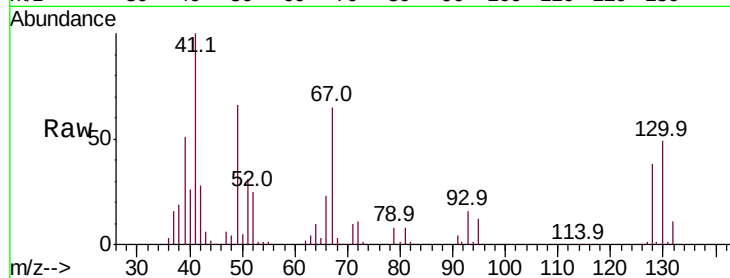
39 57.4 48.0 72.0

67 75.1 70.3 105.5

52 27.7 26.9 40.3

Manual Integrations
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MMDadoda
12/26/2018 10:53:25 AM



#42

1,2-Dichloroethane

Concen: 52.010 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN053172.D

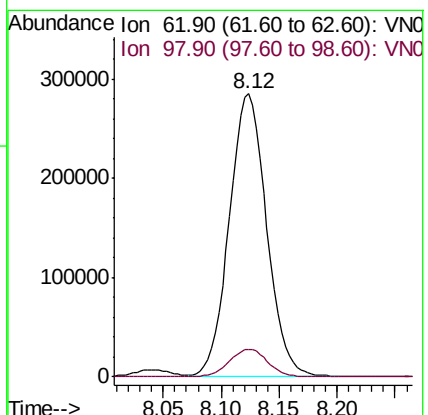
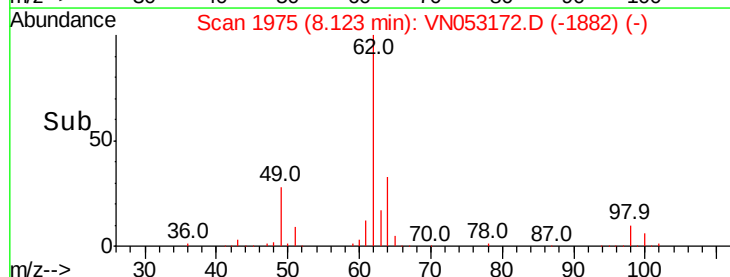
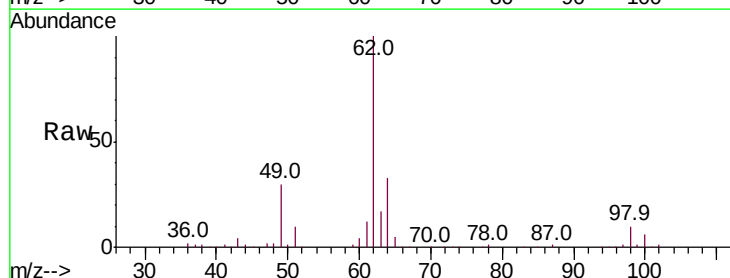
Acq: 24 Dec 2018 9:19

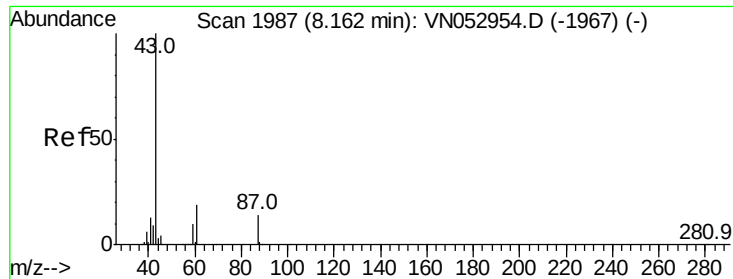
Tgt Ion: 62 Resp: 635153

Ion Ratio Lower Upper

62 100

98 10.0 0.0 19.0





#43

Isopropyl Acetate

Concen: 50.450 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

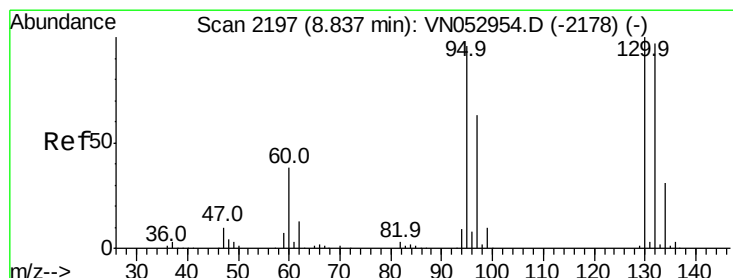
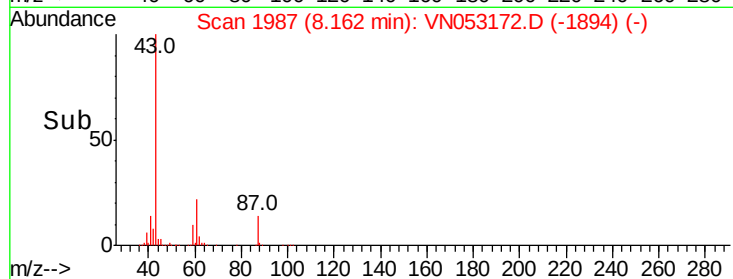
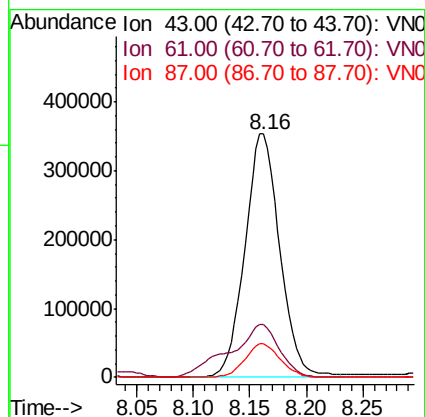
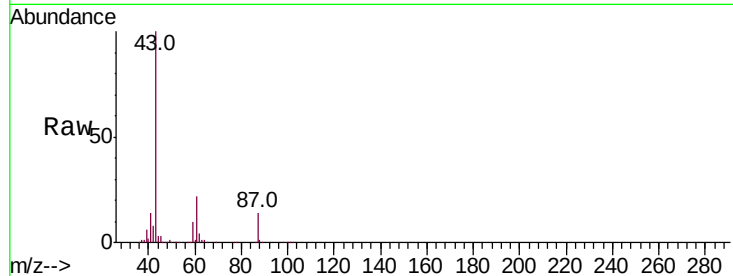
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	757310
Ion	Ratio	Lower	Upper
43	100		
61	30.6	22.9	34.3
87	14.0	10.6	15.8

Manual Integrations
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#44

Trichloroethene

Concen: 49.944 ug/l

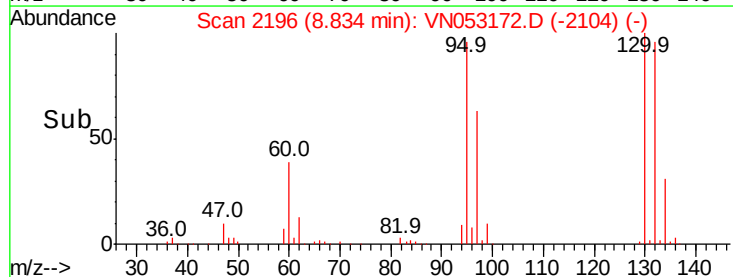
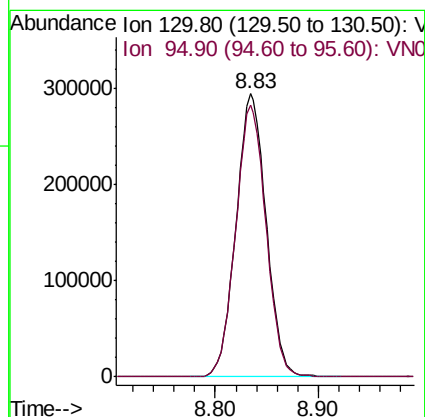
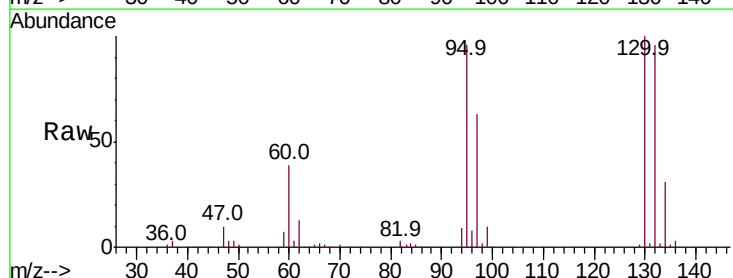
RT: 8.83 min Scan# 2196

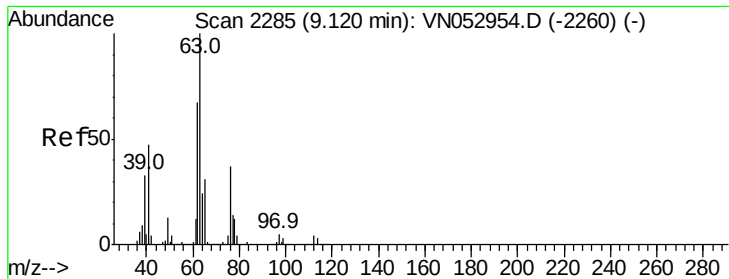
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	130	Resp:	597168
Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	197.8





#45

1,2-Dichloropropane

Concen: 54.120 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 582733

Ion Ratio Lower Upper

63 100

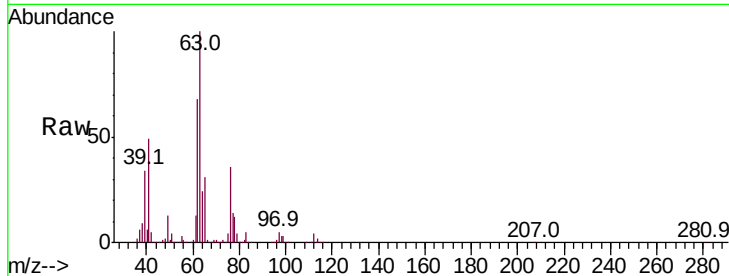
65 30.9 24.6 37.0

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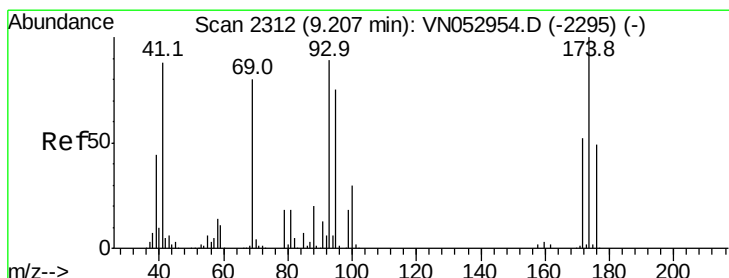
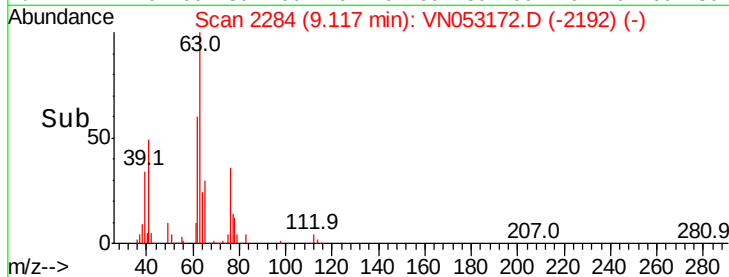
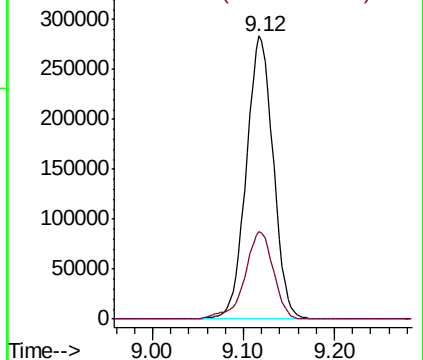
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 51.922 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

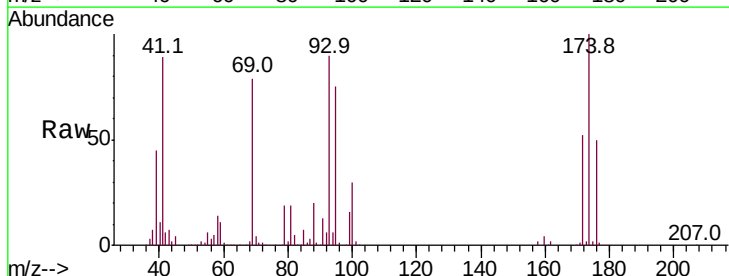
Tgt Ion: 93 Resp: 325680

Ion Ratio Lower Upper

93 100

95 84.2 67.8 101.6

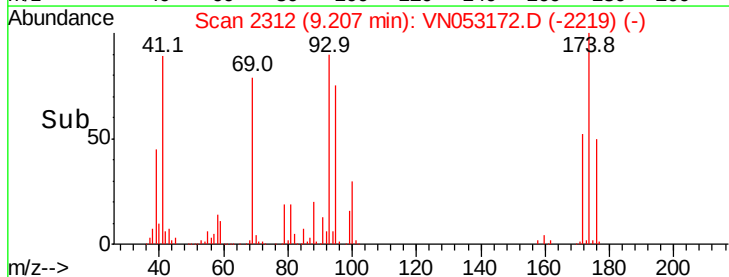
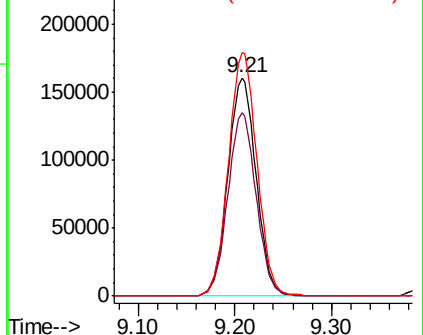
174 112.7 89.0 133.4

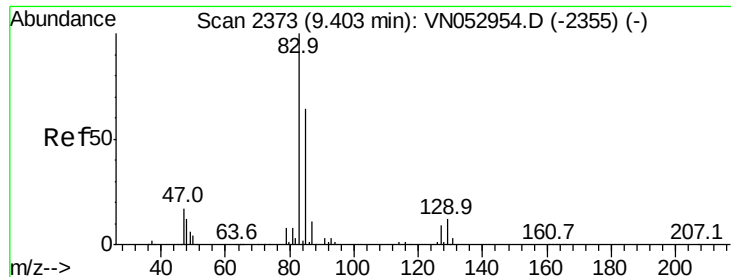


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 53.229 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

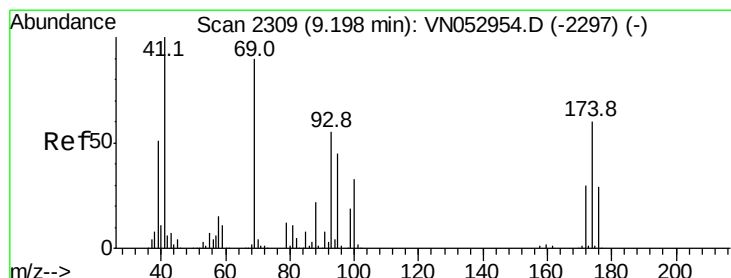
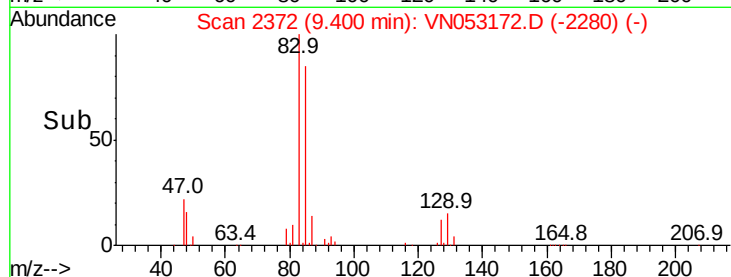
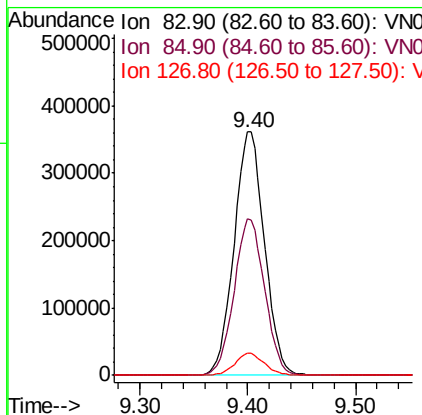
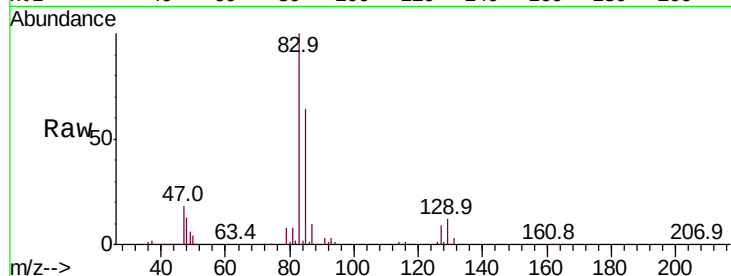
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	709714
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.6	77.4
127	9.0	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 52.277 ug/l

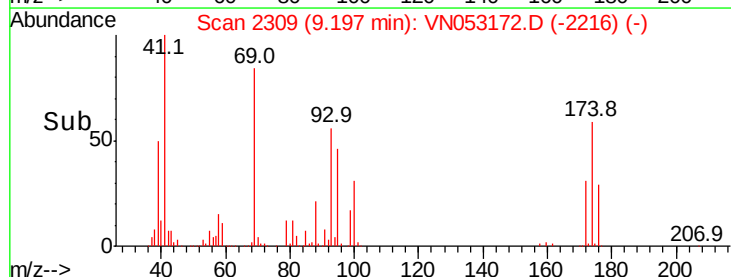
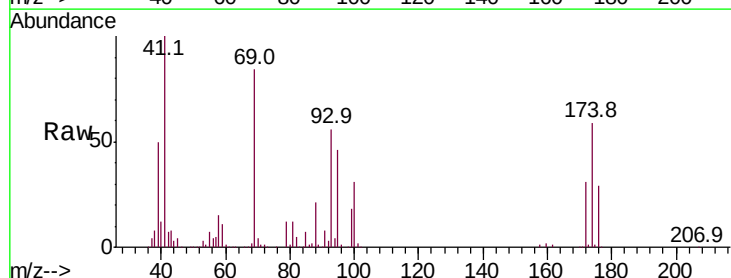
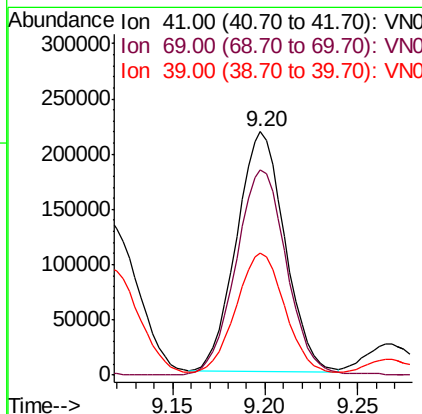
RT: 9.20 min Scan# 2309

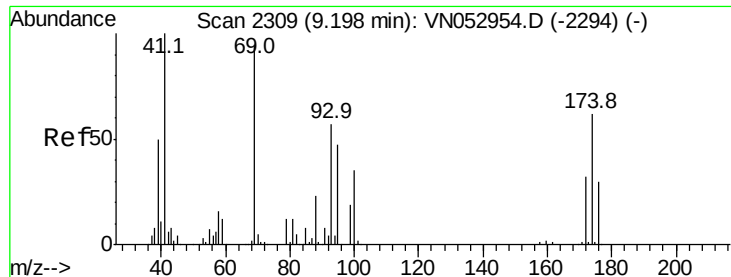
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	41	Resp:	393565
Ion Ratio	Lower	Upper	
41	100		
69	90.2	72.2	108.2
39	52.2	41.9	62.9





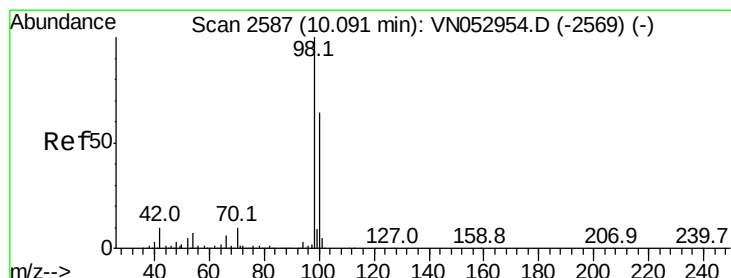
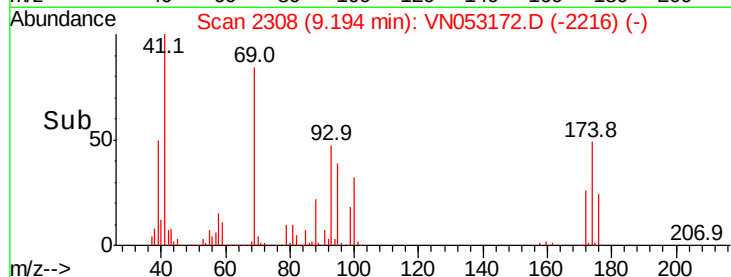
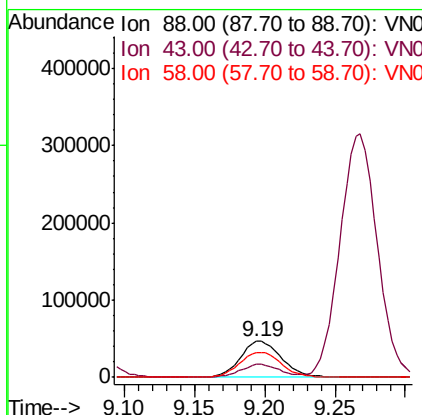
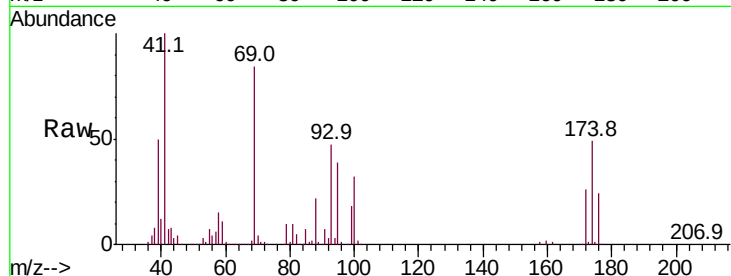
#49
1,4-Dioxane
Concen: 1010.423 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.6	40.0
58	70.8	58.4	87.6

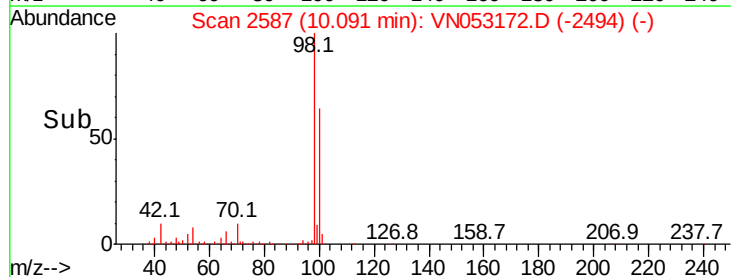
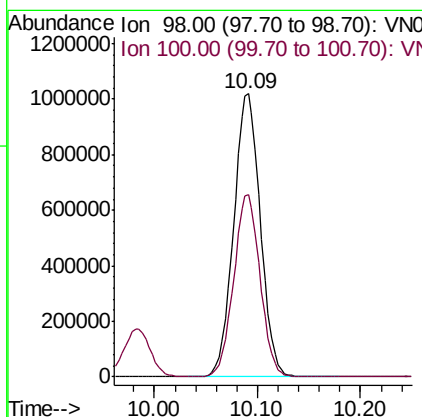
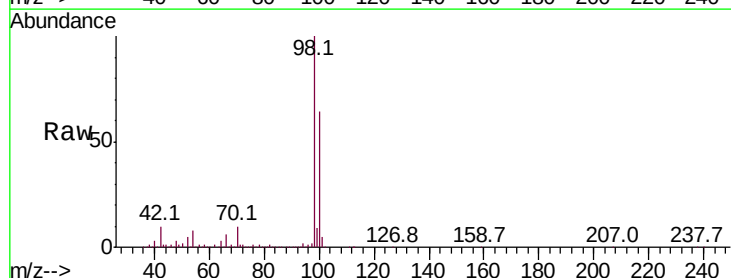
Manual Integrations
APPROVED

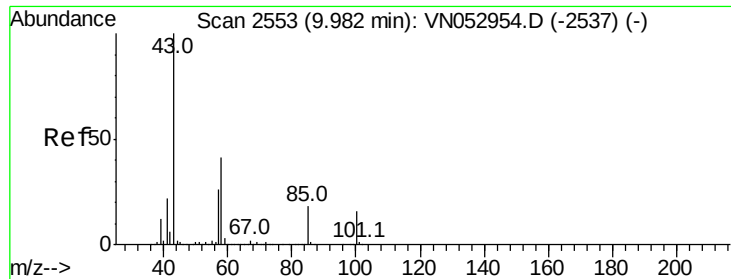
MMDadoda
12/26/2018 10:53:25 AM



#50
Toluene-d8
Concen: 1010.423 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 273.730 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2056638

Ion Ratio Lower Upper

43 100

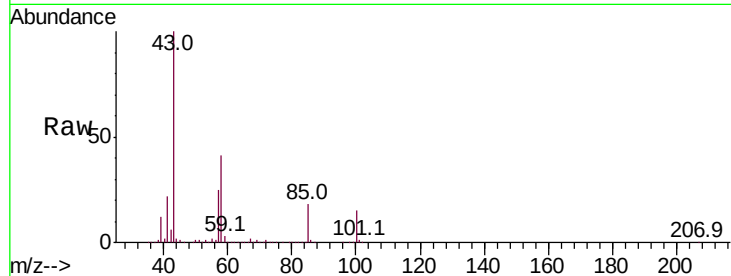
58 40.8 32.2 48.4

Manual Integrations

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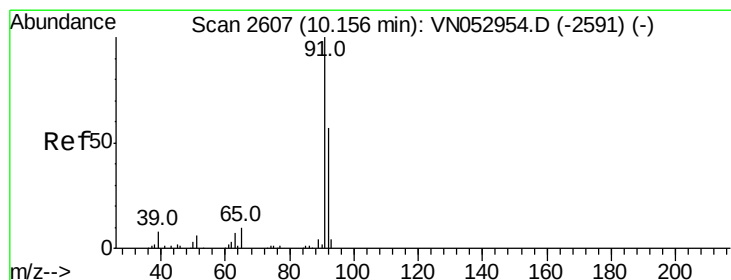
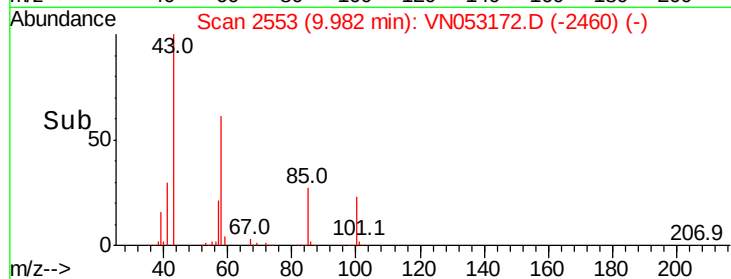
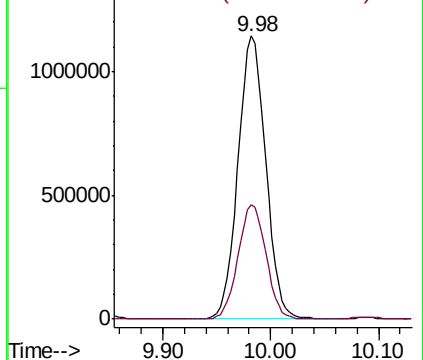
MMDadoda

12/26/2018 10:53:25 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 53.715 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053172.D

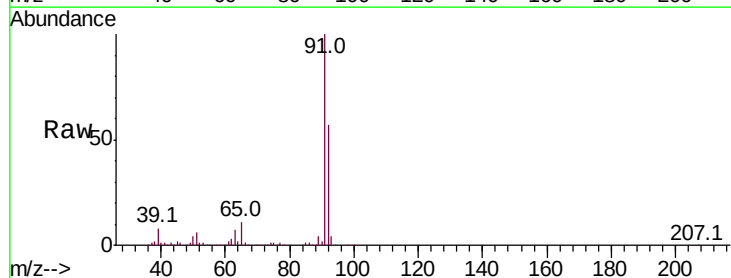
Acq: 24 Dec 2018 9:19

Tgt Ion: 92 Resp: 1376329

Ion Ratio Lower Upper

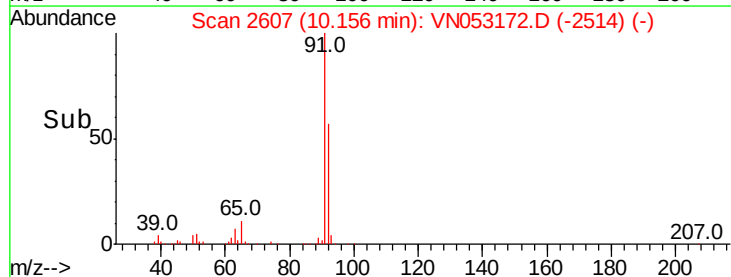
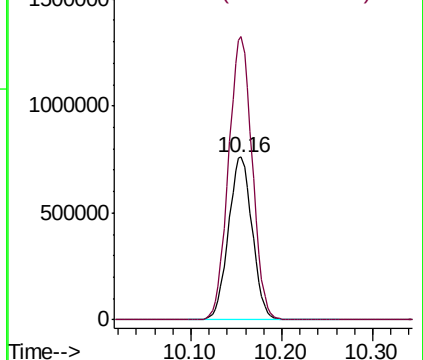
92 100

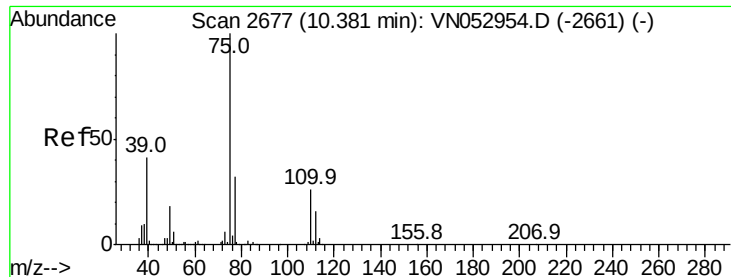
91 174.2 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





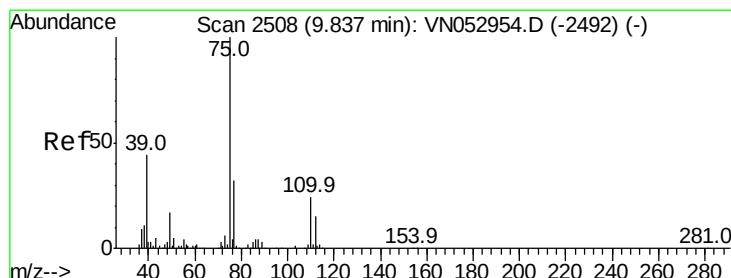
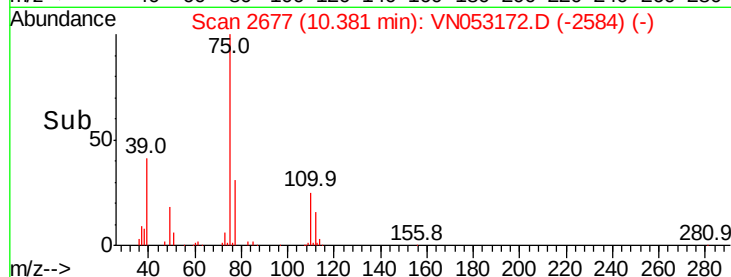
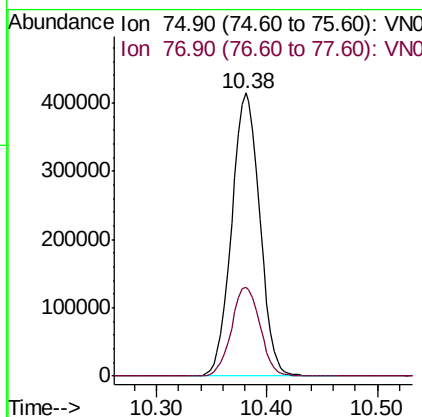
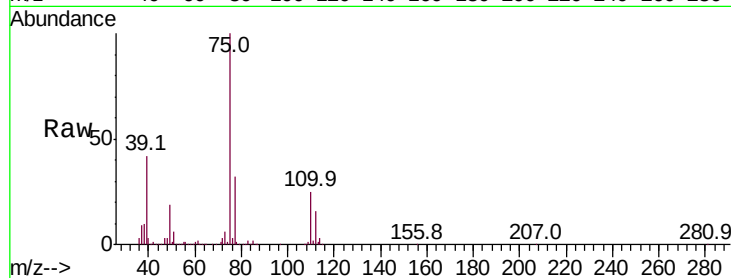
#53
t-1,3-Dichloropropene
Concen: 52.166 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4

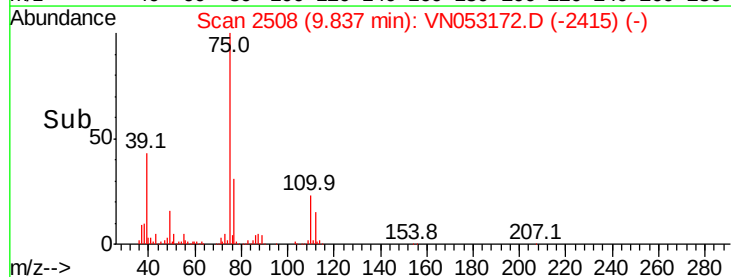
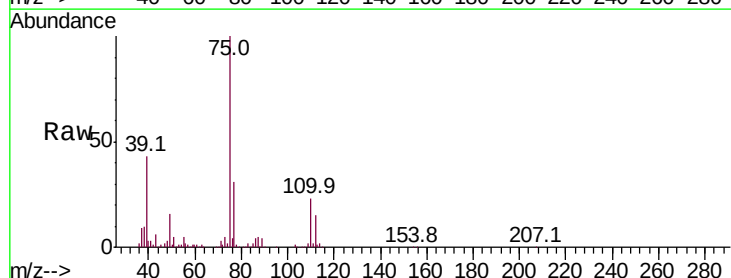
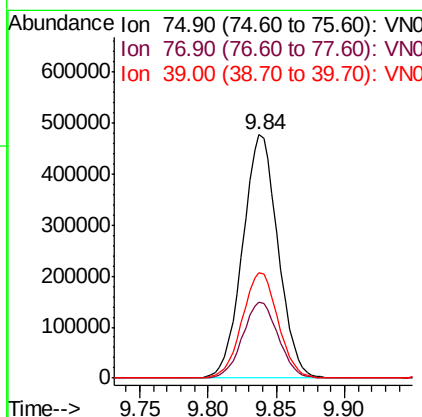
Manual Integrations
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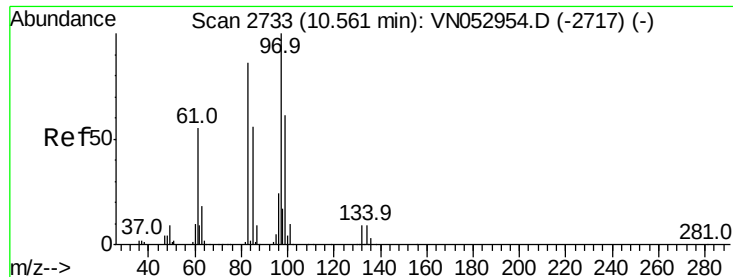
MMDadoda
12/26/2018 10:53:25 AM



#54
cis-1,3-Dichloropropene
Concen: 53.368 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.8	38.8
39	43.4	34.8	52.2





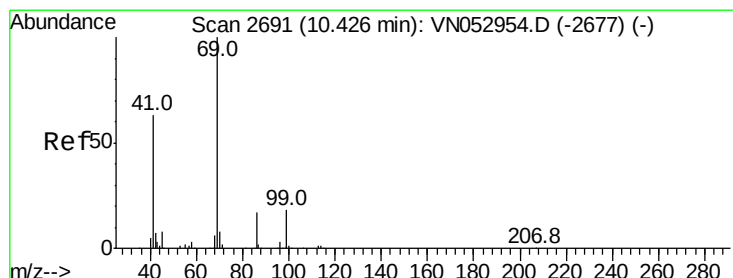
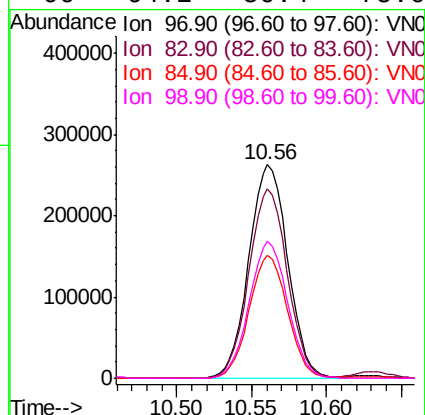
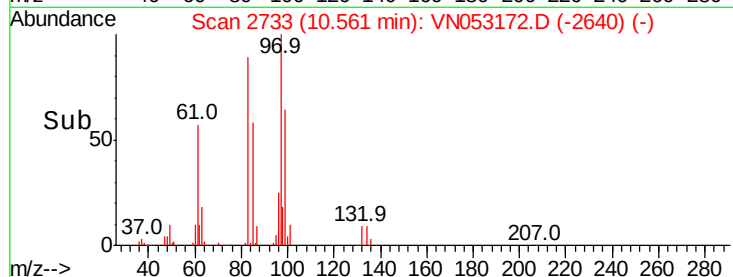
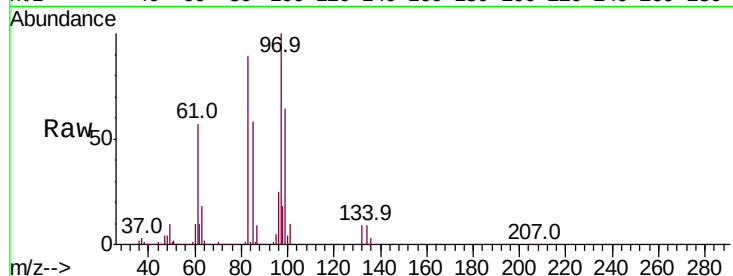
#55
 1,1,2-Trichloroethane
 Concen: 53.341 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.9	106.3
85	57.5	45.4	68.2
99	64.2	50.4	75.6

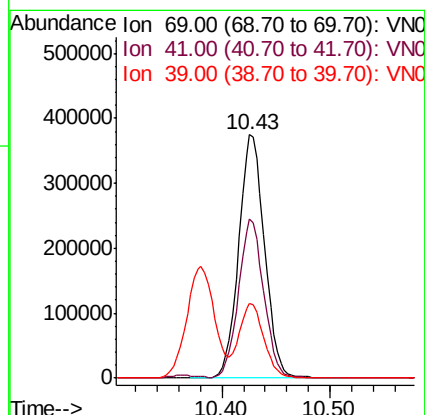
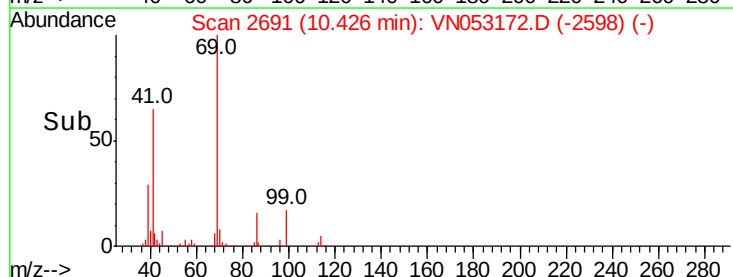
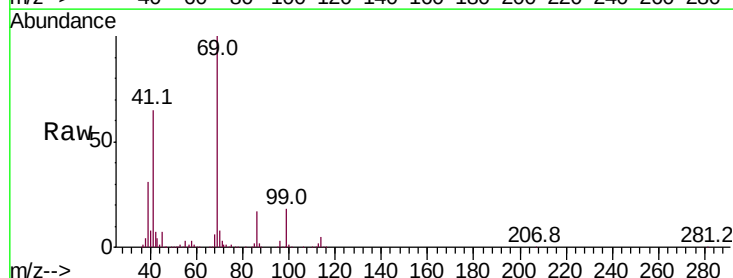
Manual Integrations
 APPROVED

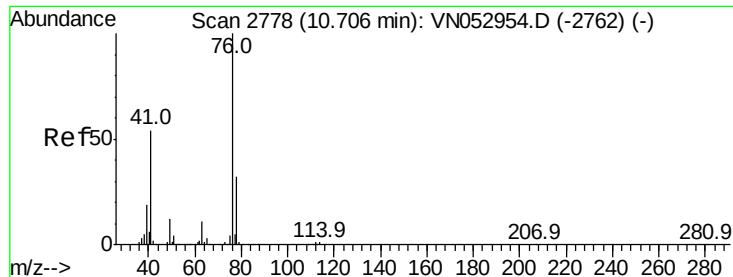
MMDadoda
 12/26/2018 10:53:25 AM



#56
 Ethyl methacrylate
 Concen: 52.911 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.8	51.7	77.5
39	29.5	24.6	37.0





#57

1,3-Dichloropropane

Concen: 53.799 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053172.D

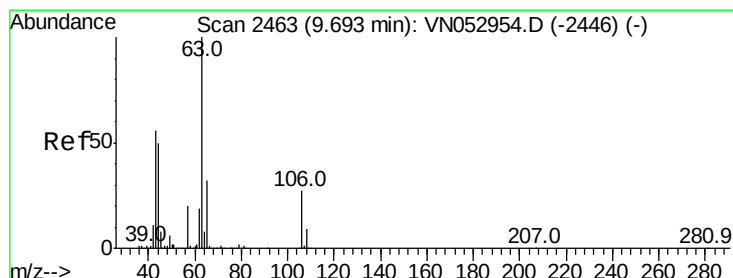
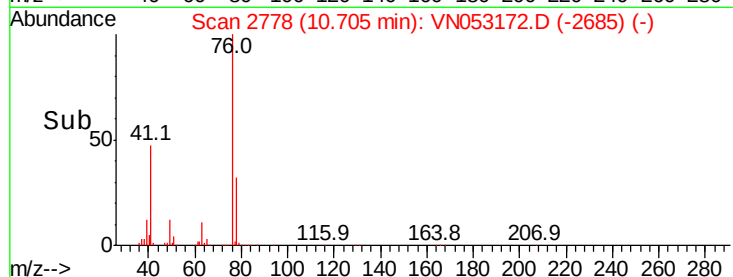
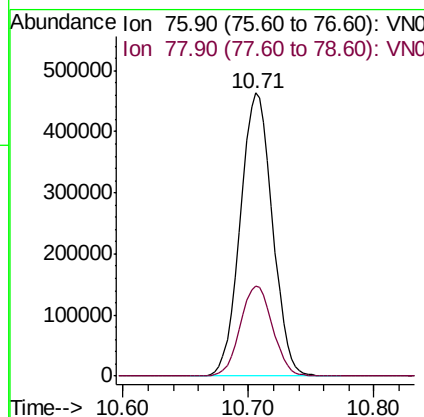
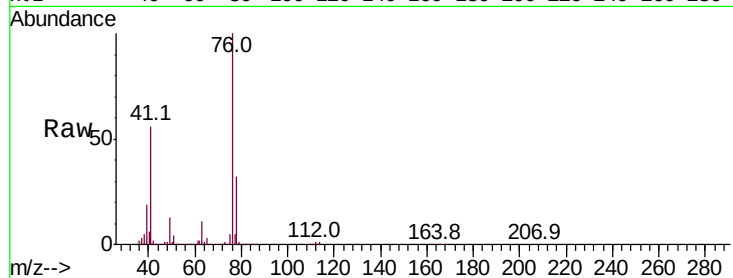
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

Manual Integrations
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MMDadoda
12/26/2018 10:53:25 AM



#58

2-Chloroethyl Vinyl ether

Concen: 246.790 ug/l

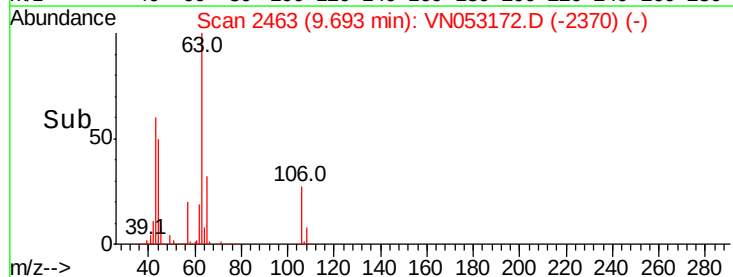
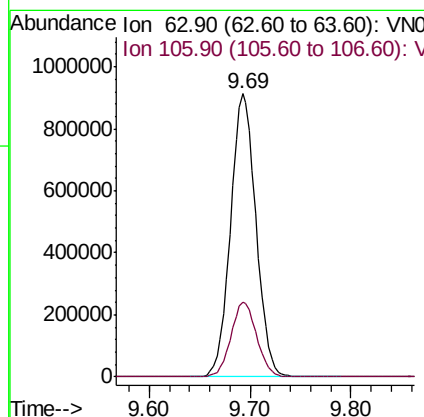
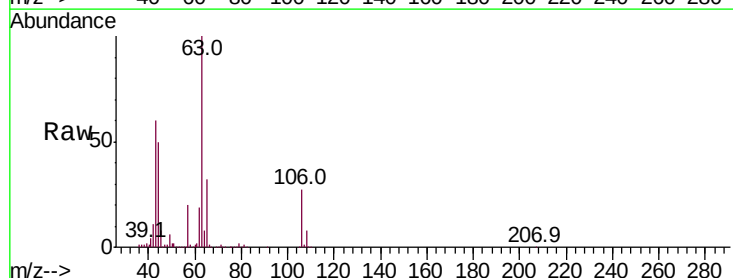
RT: 9.69 min Scan# 2463

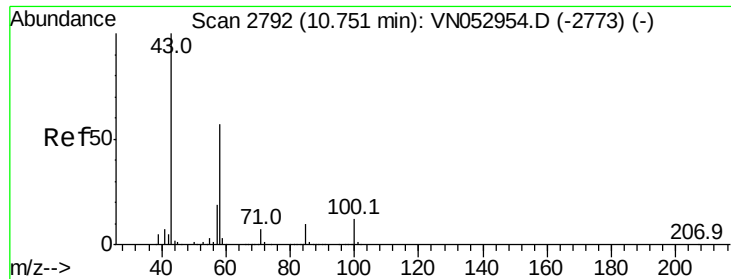
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.0	31.6





#59

2-Hexanone

Concen: 278.705 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1416778

Ion Ratio Lower Upper

43 100

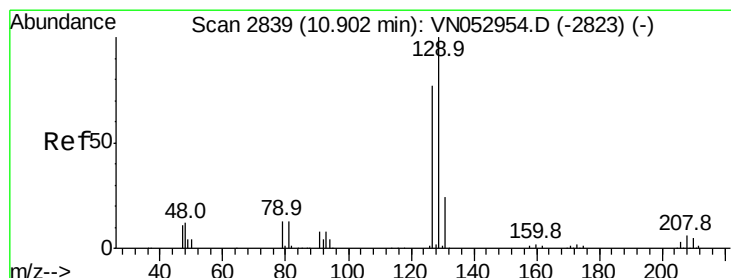
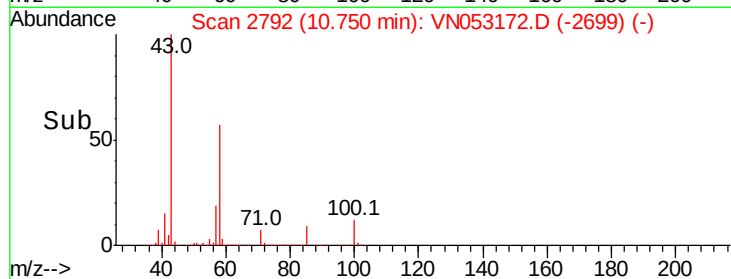
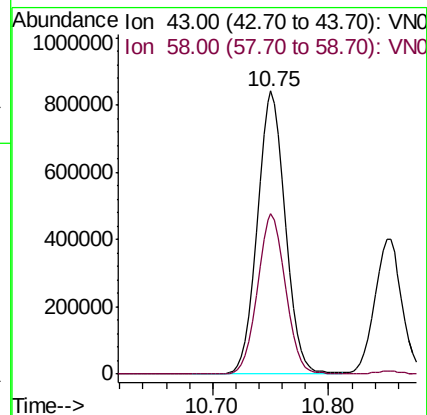
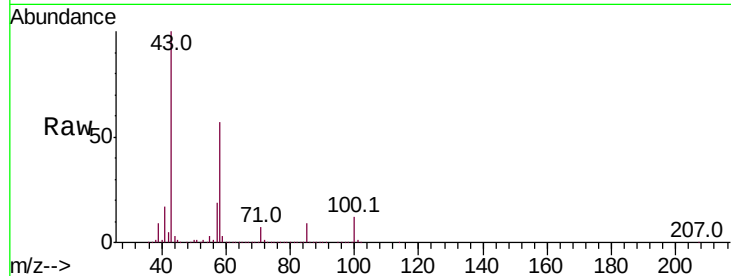
58 56.8 28.1 84.3

Manual Integrations

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MMDadoda

12/26/2018 10:53:25 AM



#60

Dibromochloromethane

Concen: 52.484 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN053172.D

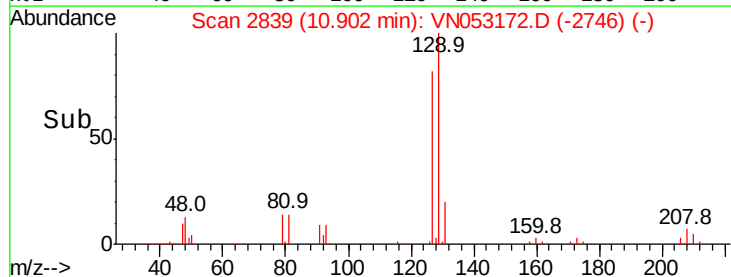
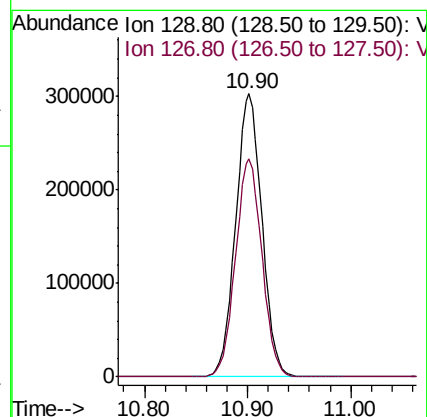
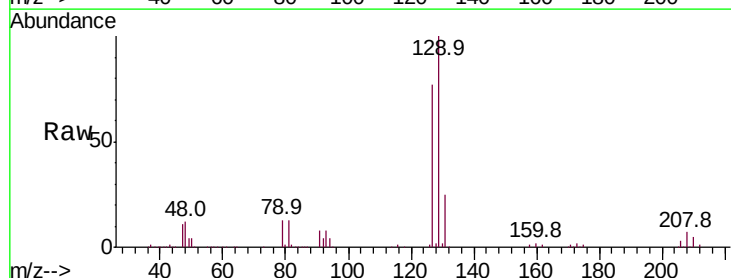
Acq: 24 Dec 2018 9:19

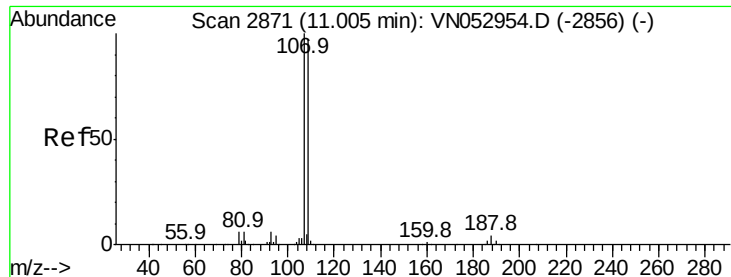
Tgt Ion: 129 Resp: 537028

Ion Ratio Lower Upper

129 100

127 77.8 38.6 116.0





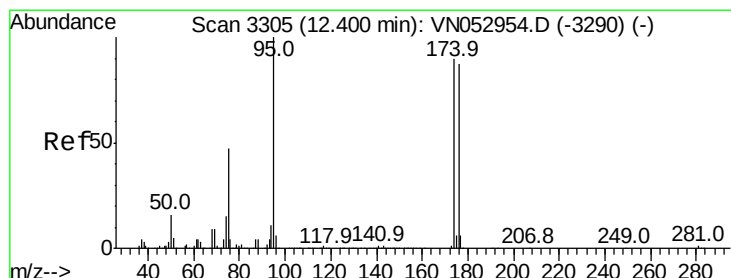
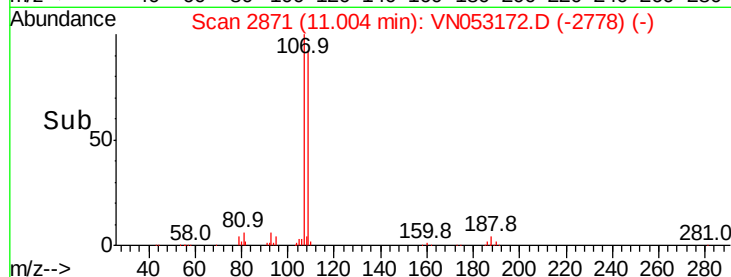
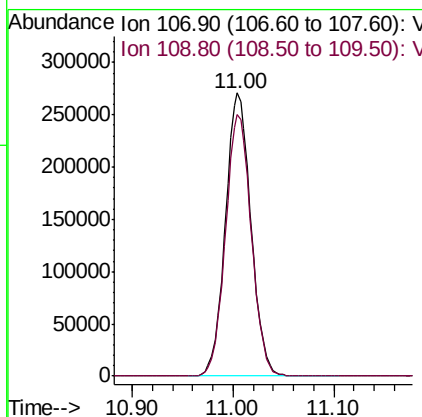
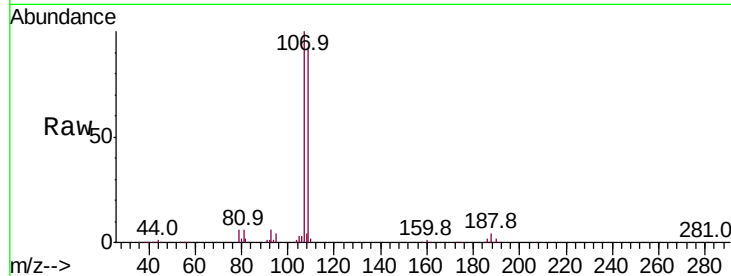
#61
 1,2-Dibromoethane
 Concen: 52.638 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.4	113.0

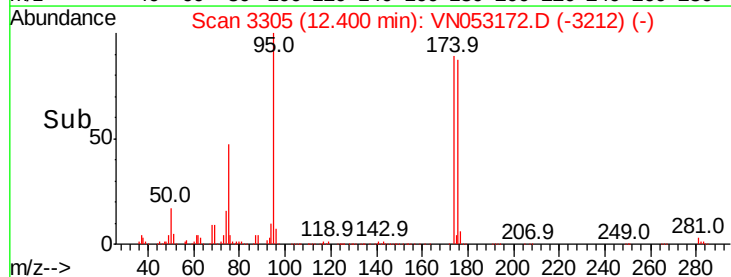
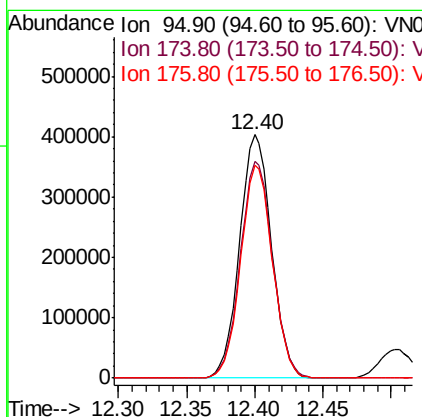
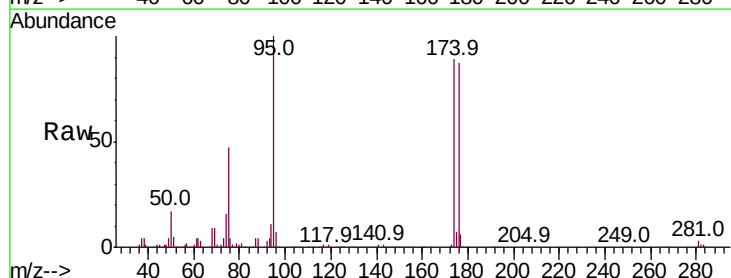
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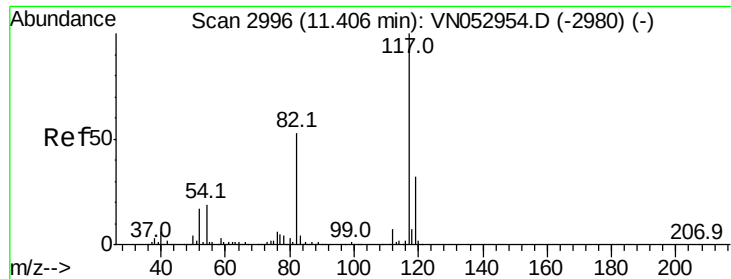
MMDadoda
 12/26/2018 10:53:25 AM



#62
 4-Bromofluorobenzene
 Concen: 52.638 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	178.8
176	87.3	0.0	173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:117 Resp: 1322272

Ion Ratio Lower Upper

117 100

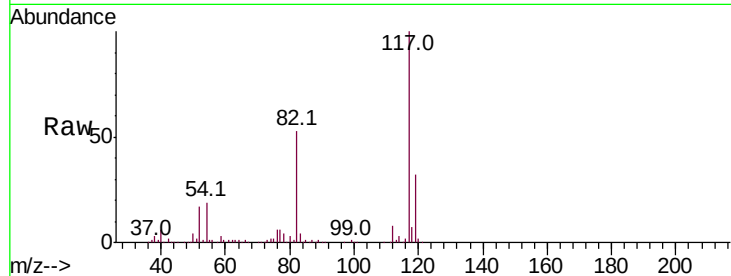
82 52.8 42.8 64.2

119 31.8 25.5 38.3

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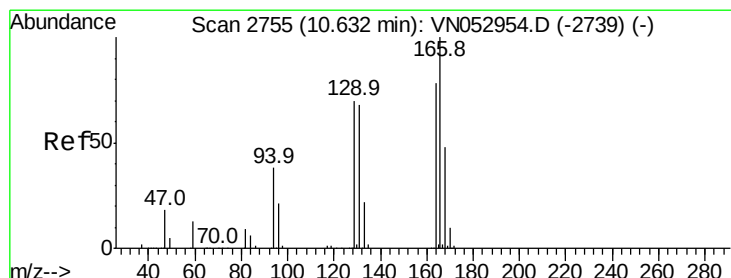
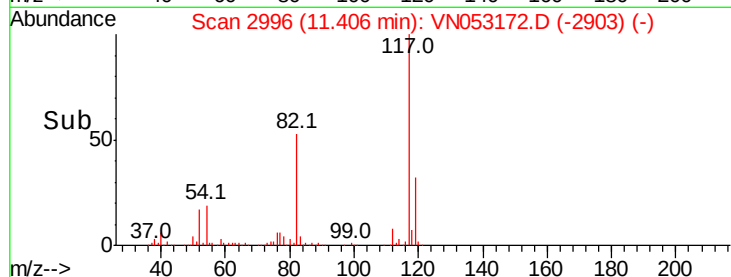
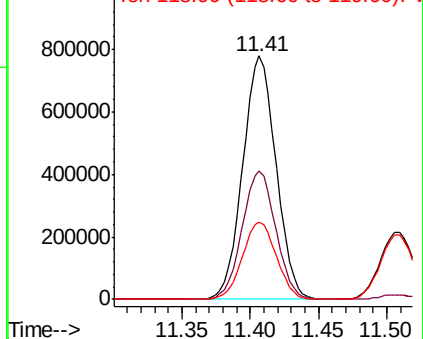


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 45.270 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:164 Resp: 648403

Ion Ratio Lower Upper

164 100

166 127.5 102.9 154.3

129 89.8 73.7 110.5

131 87.3 70.7 106.1

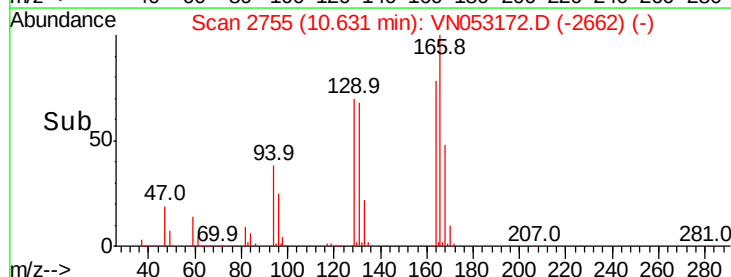
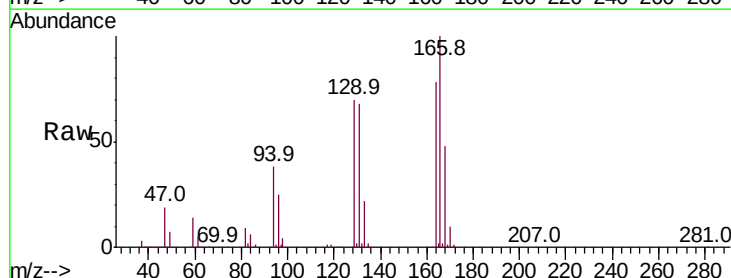
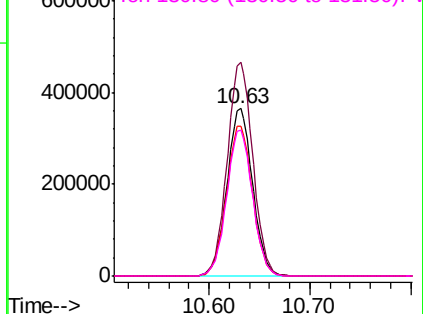
Abundance

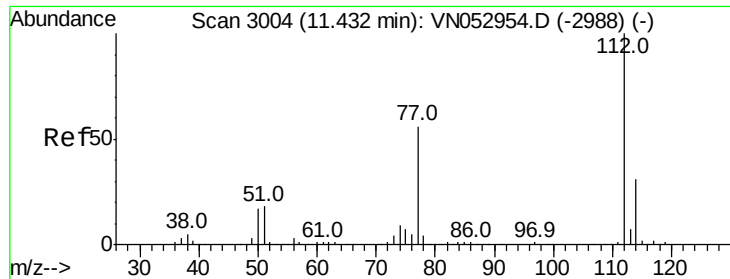
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





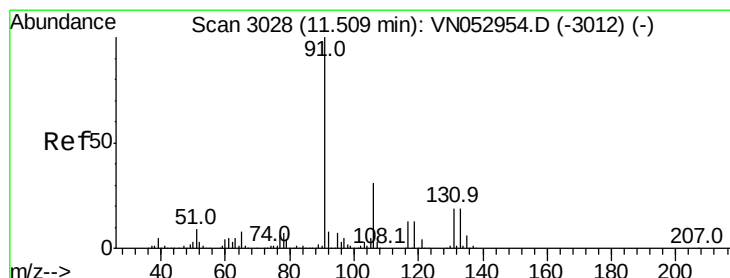
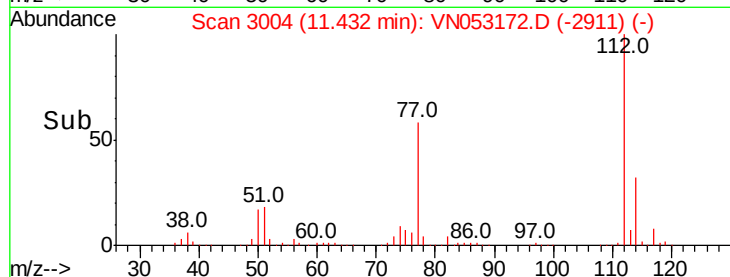
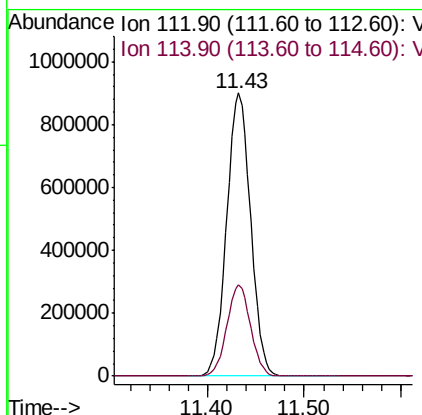
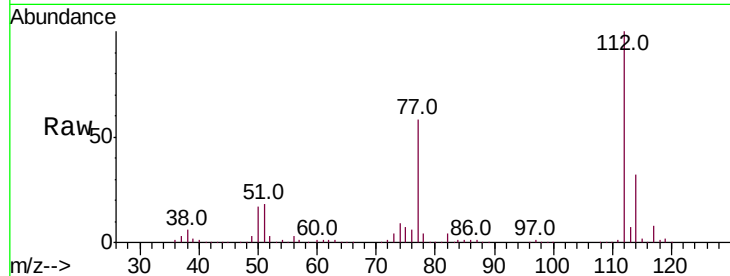
#65
Chlorobenzene
Concen: 52.658 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1543465
Ion Ratio Lower Upper
112 100
114 32.1 25.5 38.3

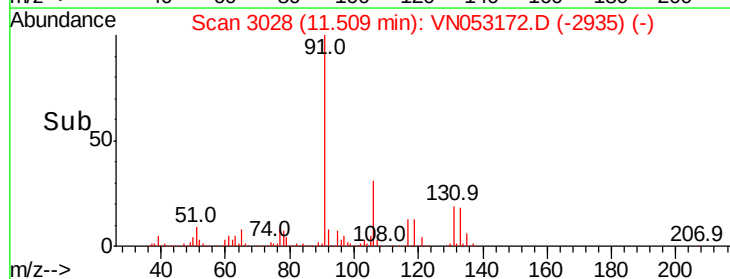
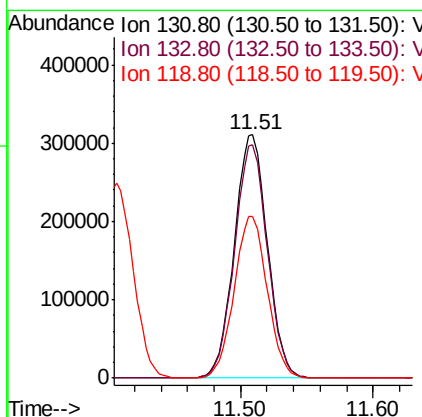
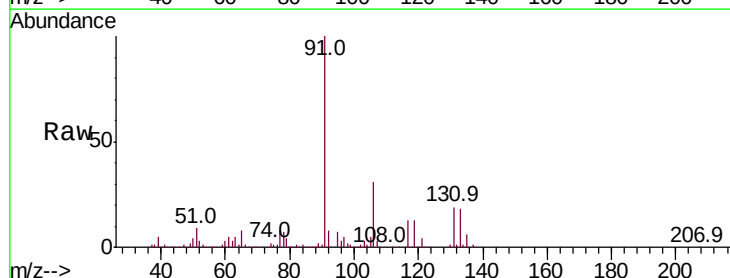
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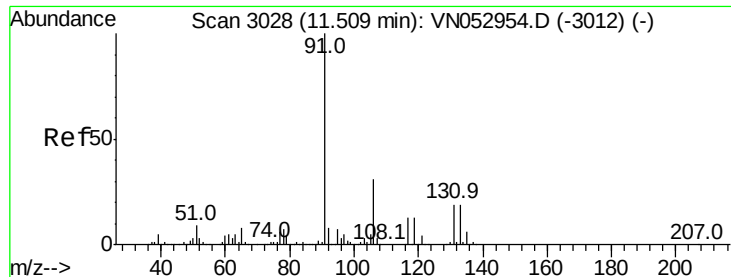
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 52.720 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion:131 Resp: 537364
Ion Ratio Lower Upper
131 100
133 95.5 47.6 142.9
119 66.6 33.3 99.8





#67

Ethyl Benzene

Concen: 53.320 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2687723

Ion Ratio Lower Upper

91 100

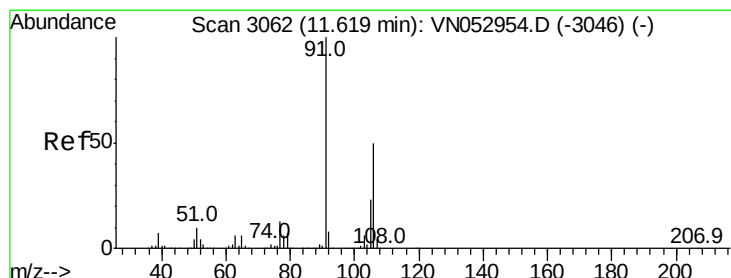
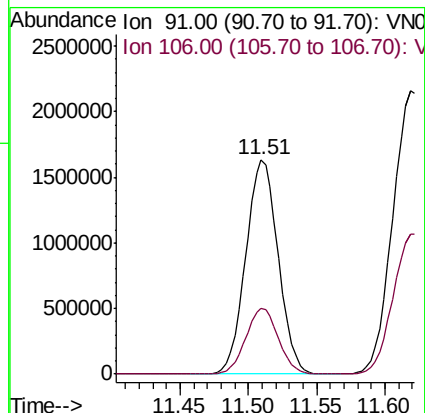
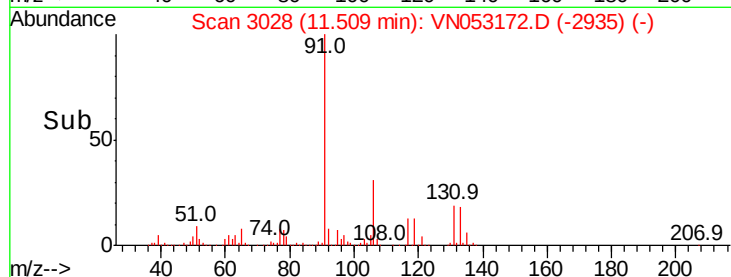
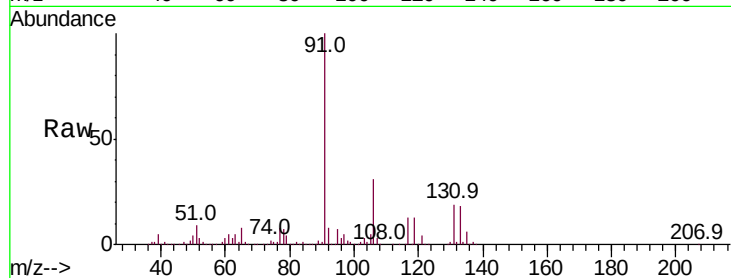
106 30.9 24.9 37.3

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#68

m/p-Xylenes

Concen: 106.372 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN053172.D

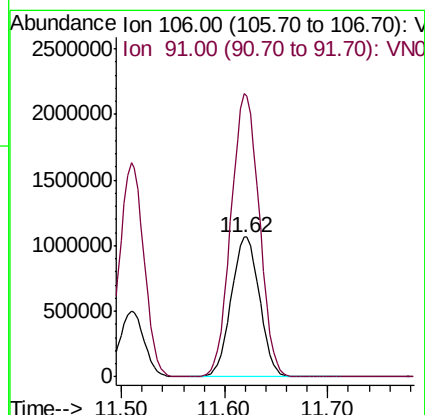
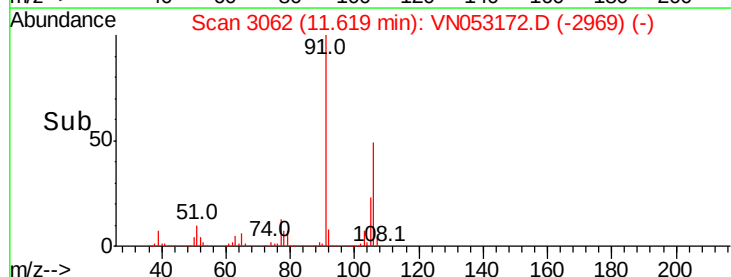
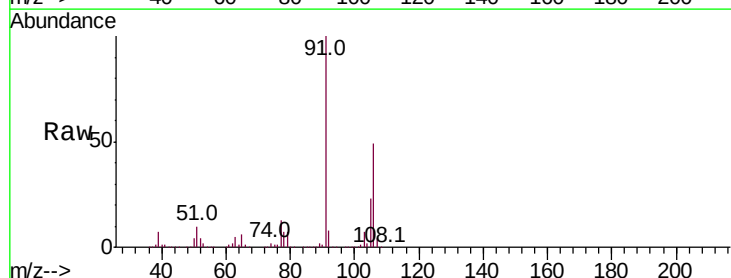
Acq: 24 Dec 2018 9:19

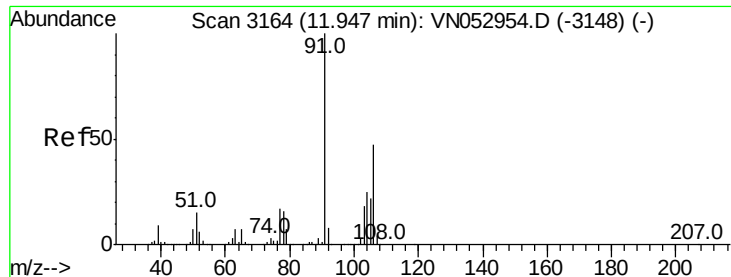
Tgt Ion: 106 Resp: 2038370

Ion Ratio Lower Upper

106 100

91 202.5 162.2 243.4





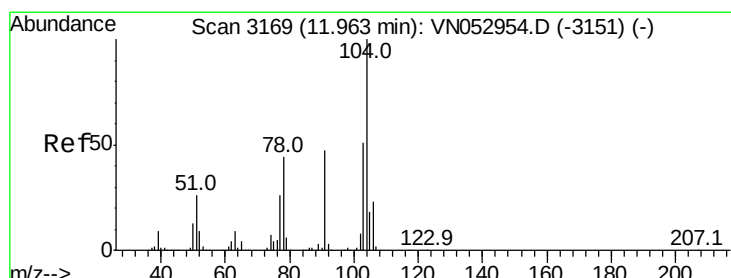
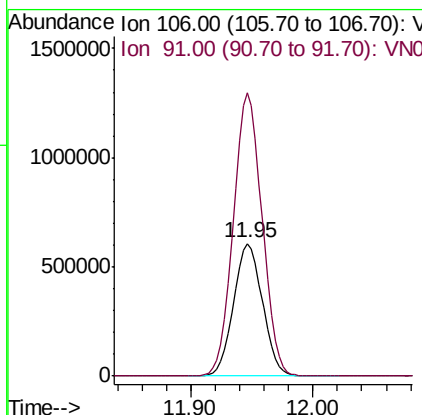
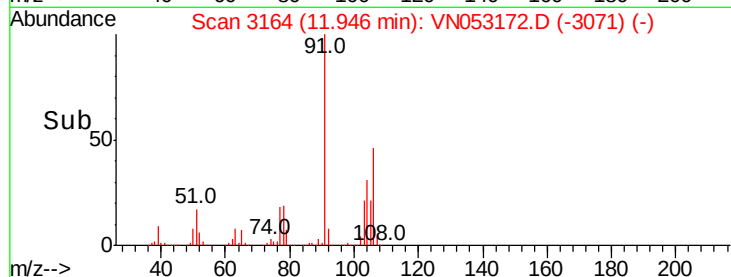
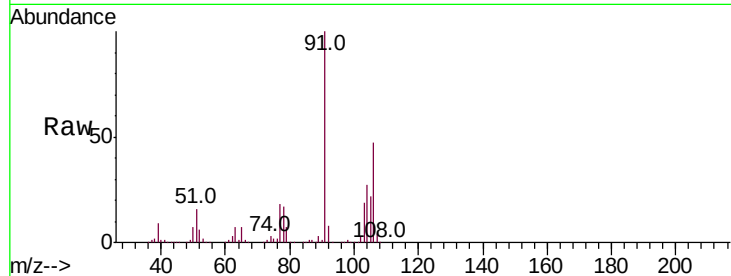
#69
o-Xylene
Concen: 54.157 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 995852
Ion Ratio Lower Upper
106 100
91 212.7 106.6 319.8

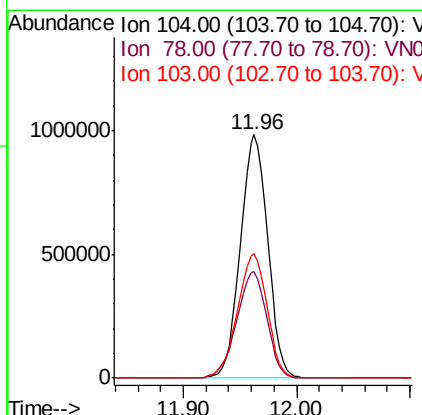
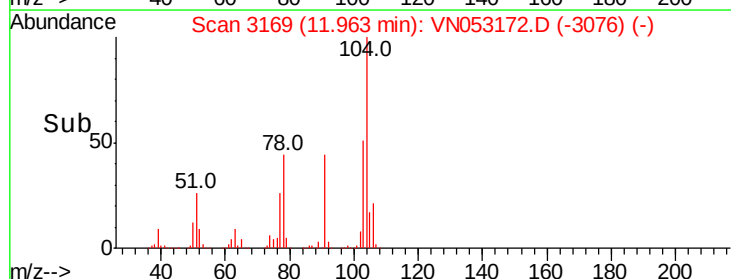
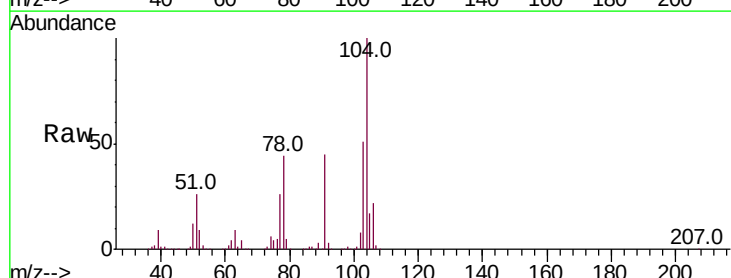
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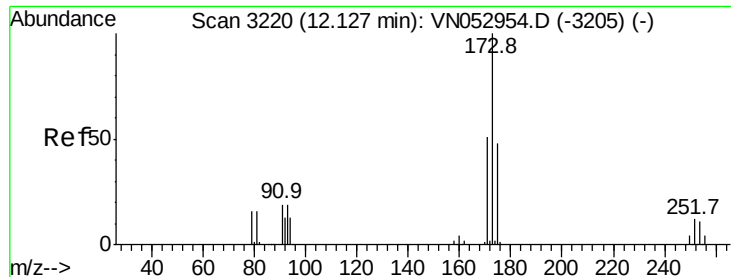
MMDadoda
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#70
Styrene
Concen: 55.220 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion:104 Resp: 1655722
Ion Ratio Lower Upper
104 100
78 48.0 38.9 58.3
103 55.3 44.3 66.5





#71

Bromoform

Concen: 50.635 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 372847

Ion Ratio Lower Upper

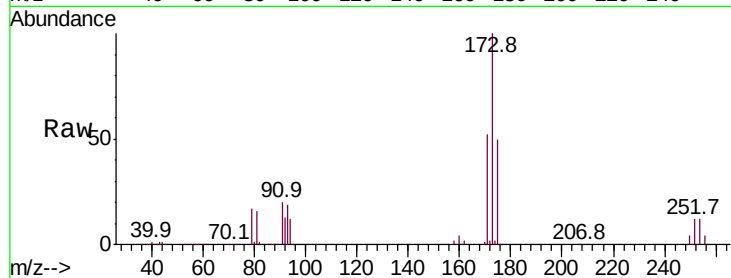
173 100

175 49.0 24.3 72.9

254 0.1 0.1 0.1#

Manual Integrations
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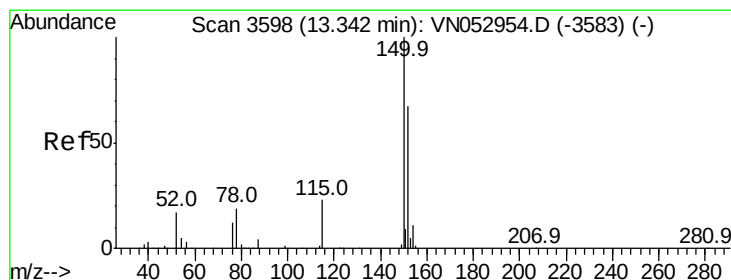
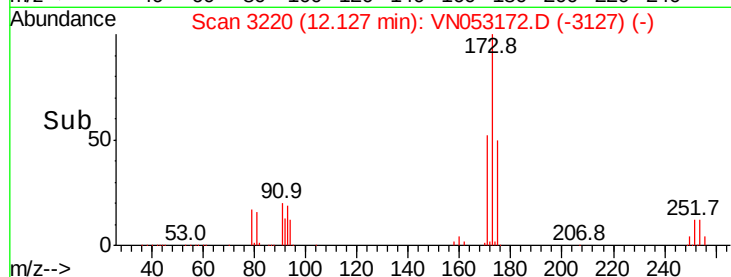
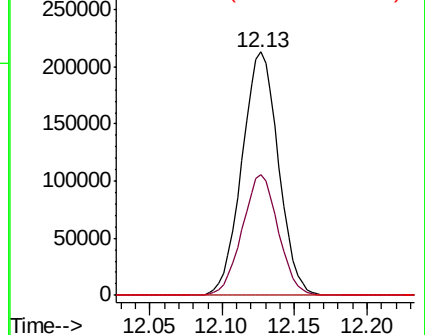
MMDadoda
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

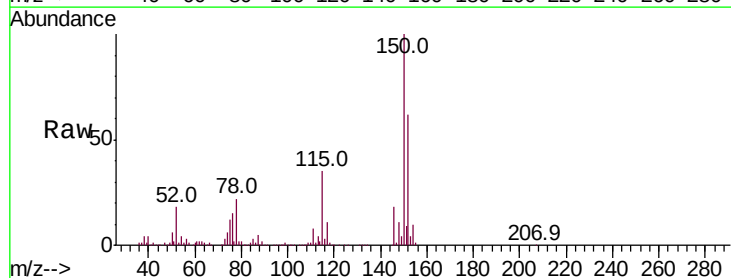
Tgt Ion:152 Resp: 643700

Ion Ratio Lower Upper

152 100

115 56.2 28.3 85.0

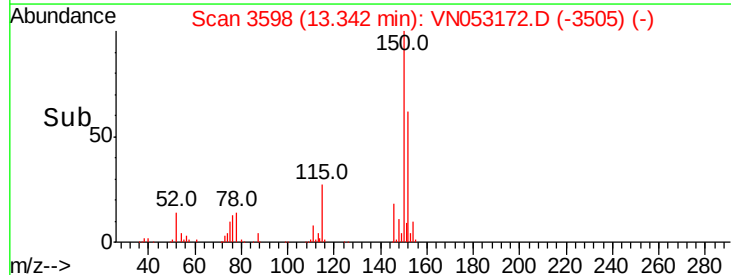
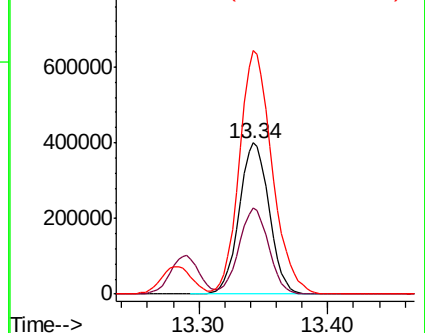
150 176.3 0.0 347.8

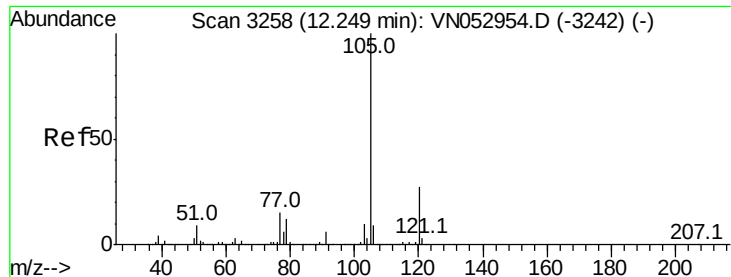


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





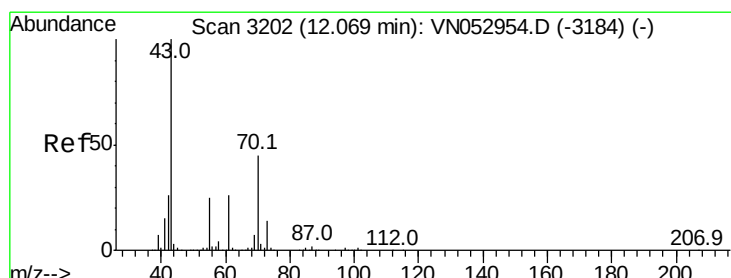
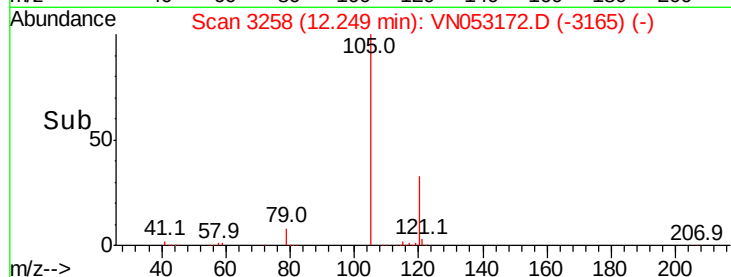
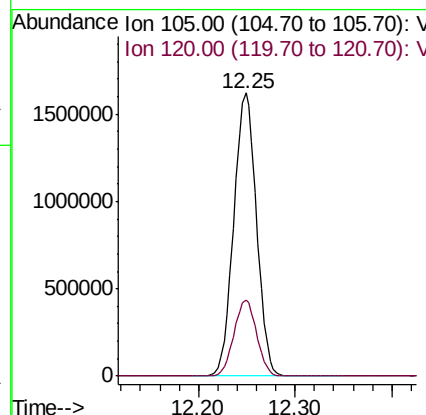
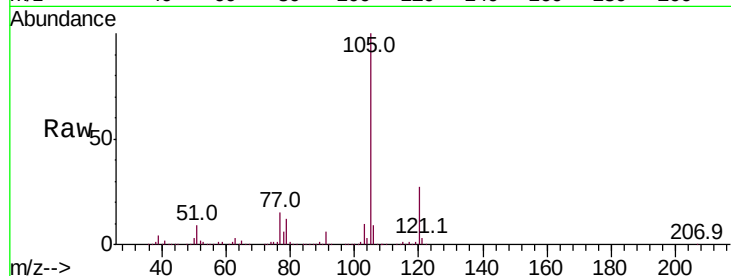
#73
Isopropylbenzene
Concen: 52.508 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 2644501
Ion Ratio Lower Upper
105 100
120 26.9 13.3 39.9

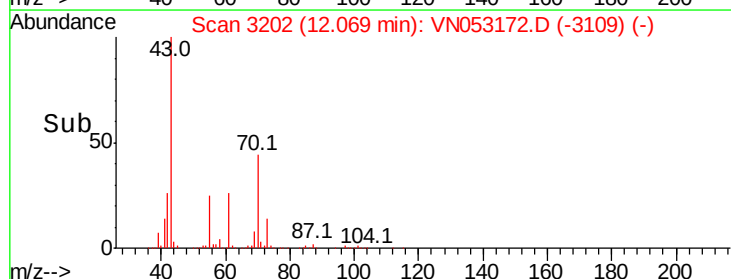
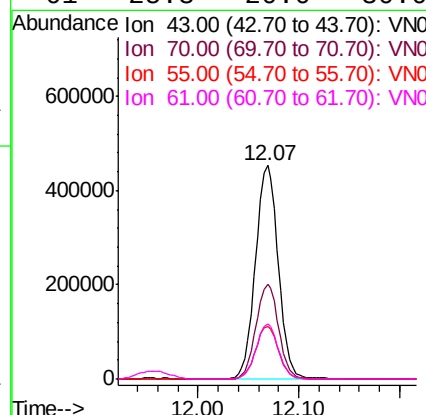
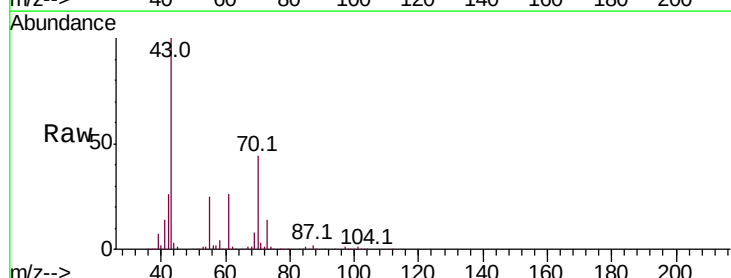
Manual Integrations
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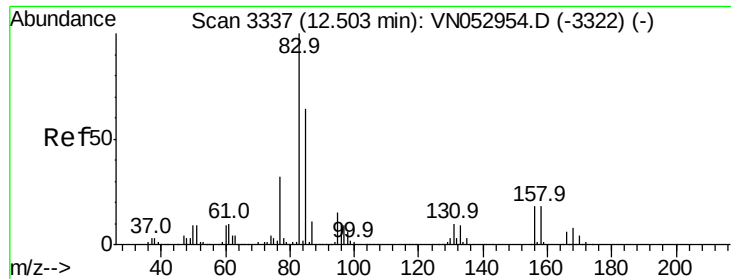
MMDadoda
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#74
N-ethyl acetate
Concen: 50.128 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion: 43 Resp: 700929
Ion Ratio Lower Upper
43 100
70 44.1 34.2 51.4
55 25.0 20.3 30.5
61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 55.612 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

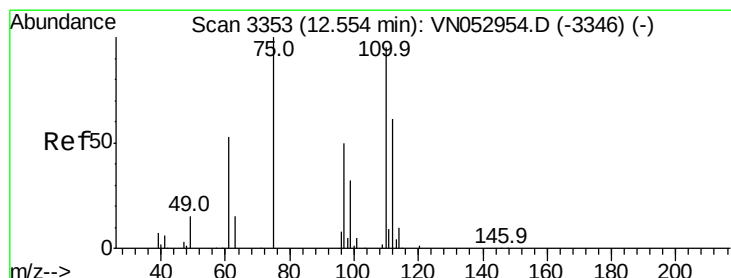
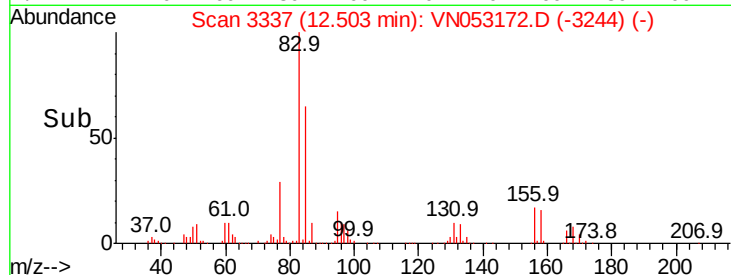
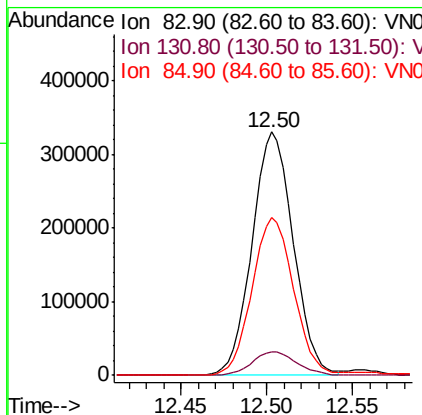
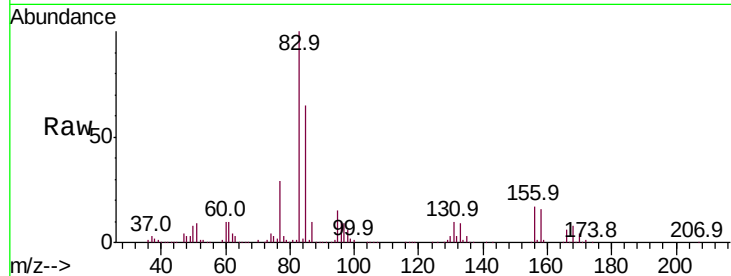
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	549484
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	65.3	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 44.634 ug/l m

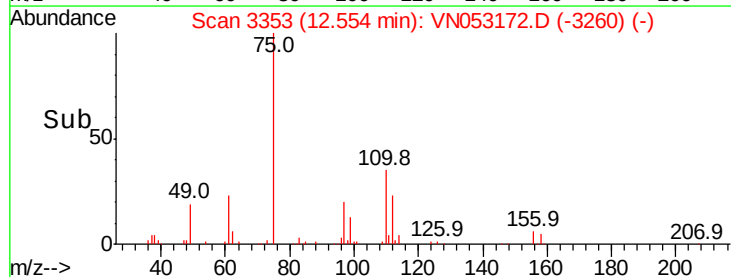
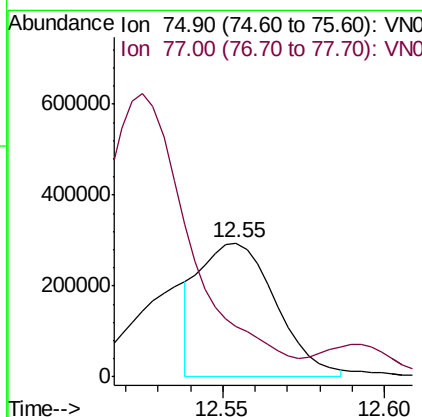
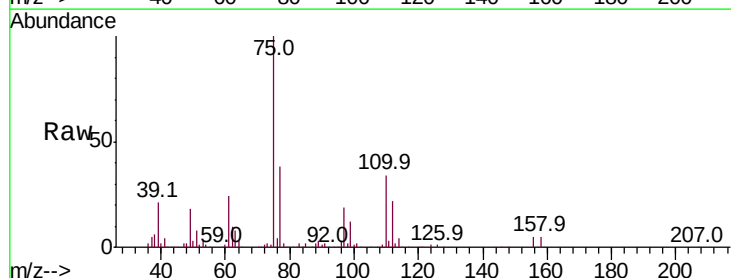
RT: 12.55 min Scan# 3353

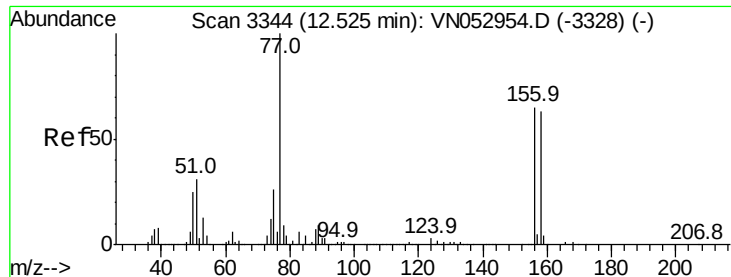
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	75	Resp:	483655
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.931 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

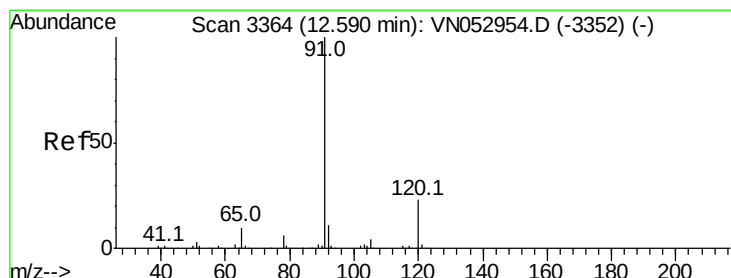
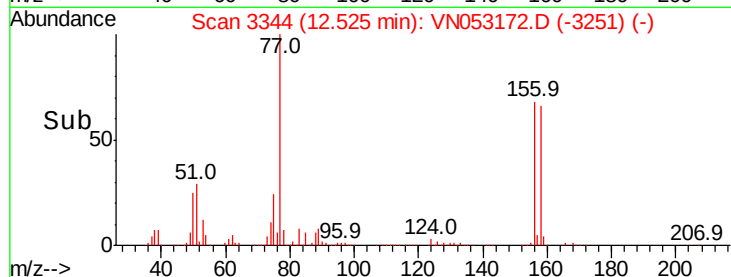
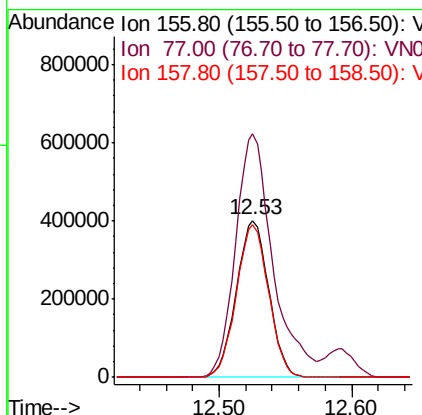
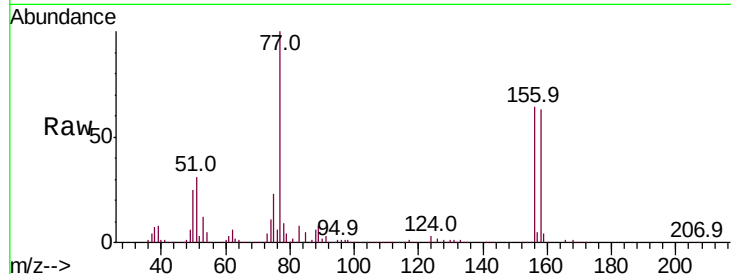
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	679866
Ion Ratio	Lower	Upper	
156	100		
77	179.2	91.3	273.8
158	96.9	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 53.154 ug/l

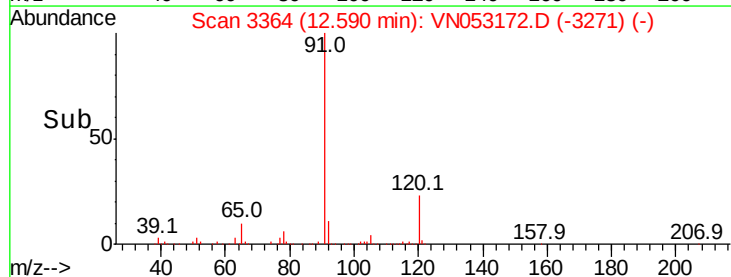
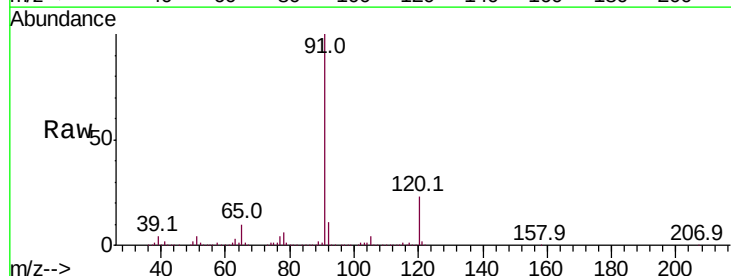
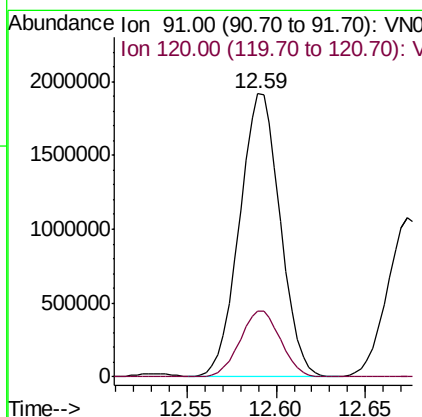
RT: 12.59 min Scan# 3364

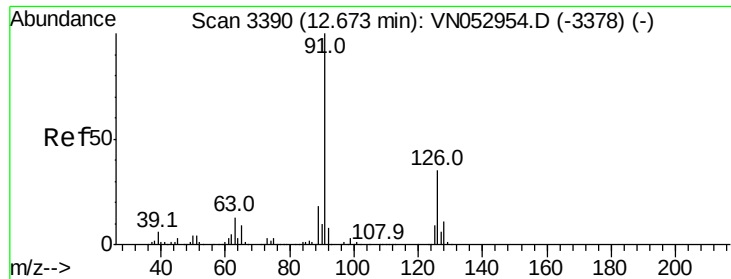
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	91	Resp:	3048893
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.5	34.5





#79

2-Chlorotoluene

Concen: 50.188 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1784400

Ion Ratio Lower Upper

91 100

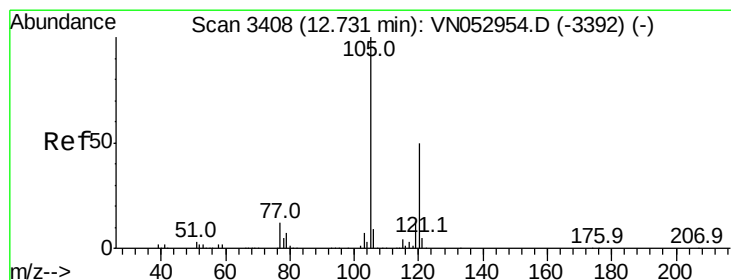
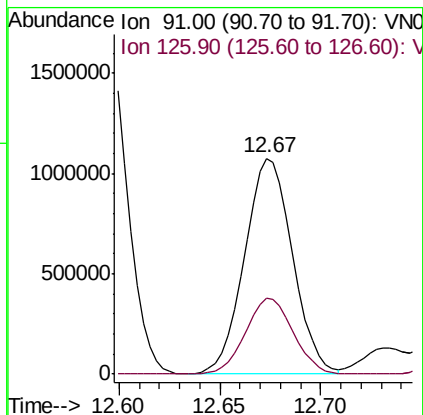
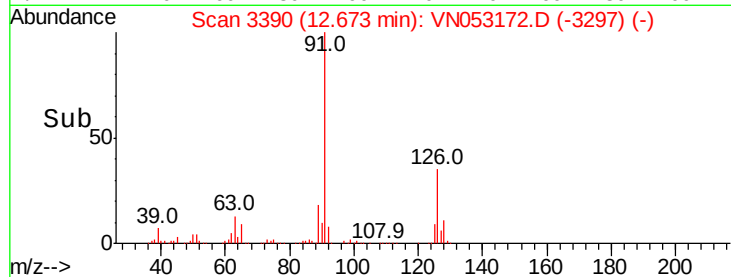
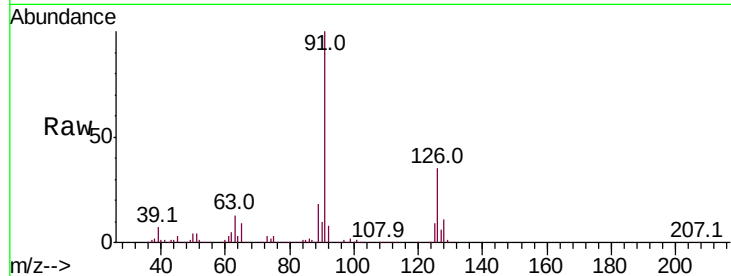
126 35.3 17.4 52.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.975 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053172.D

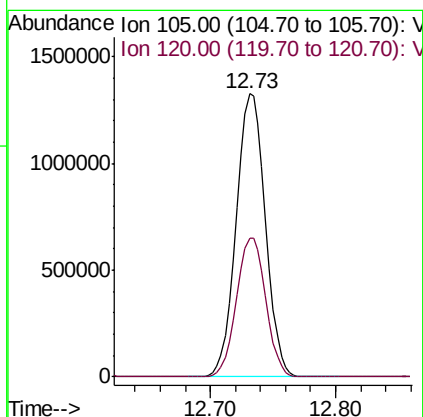
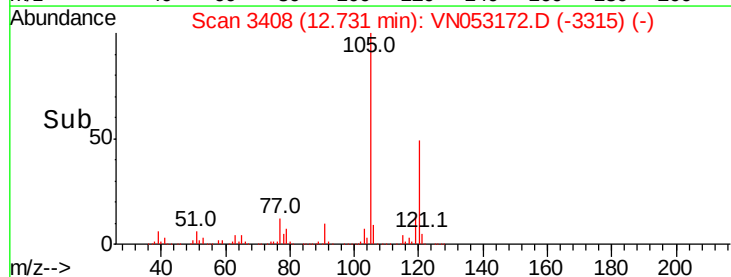
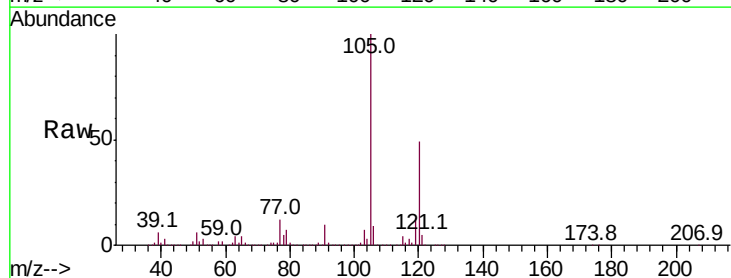
Acq: 24 Dec 2018 9:19

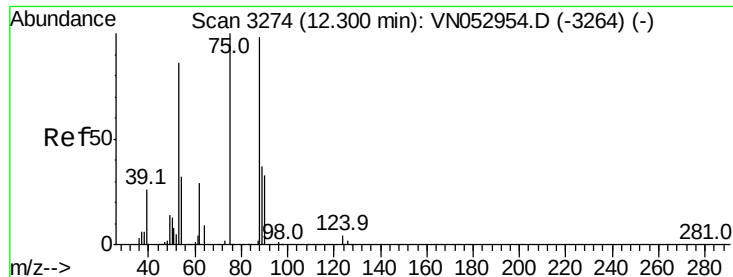
Tgt Ion:105 Resp: 2133628

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 50.401 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

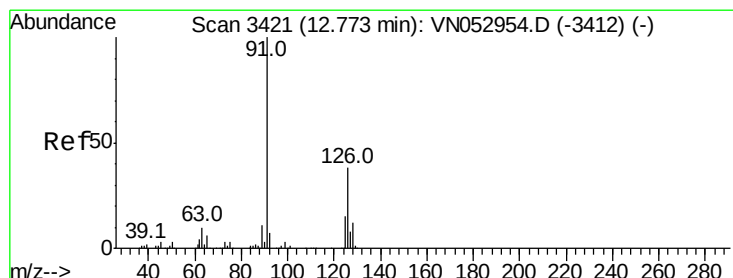
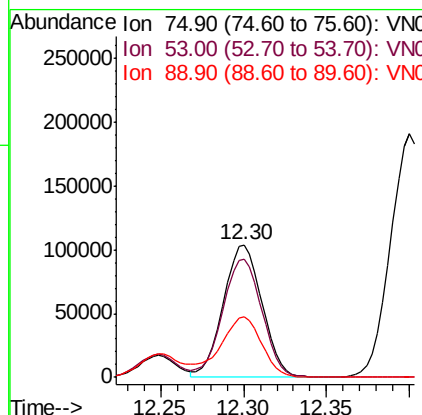
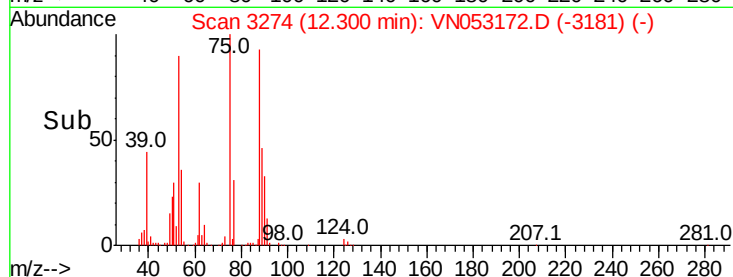
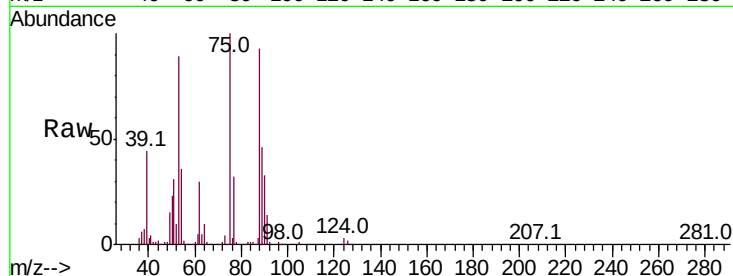
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	169447
Ion Ratio	Lower	Upper	
75	100		
53	91.4	74.7	112.1
89	47.9	36.1	54.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 52.944 ug/l

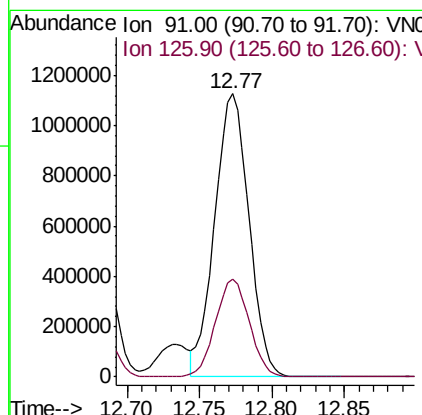
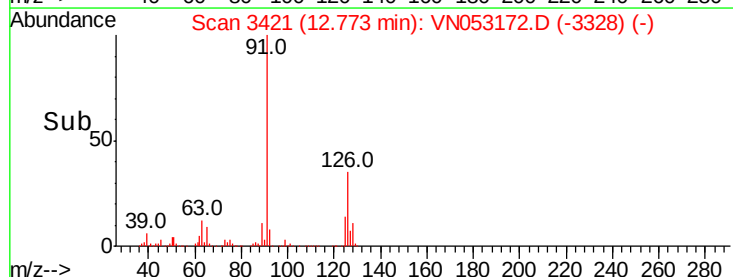
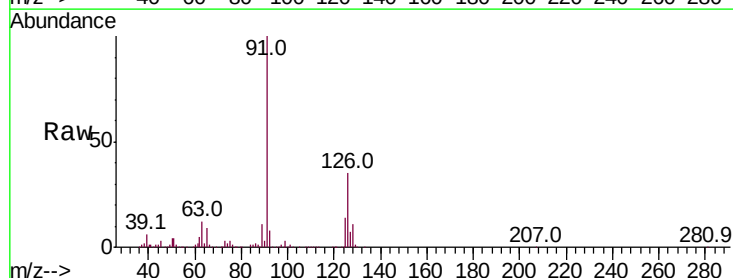
RT: 12.77 min Scan# 3421

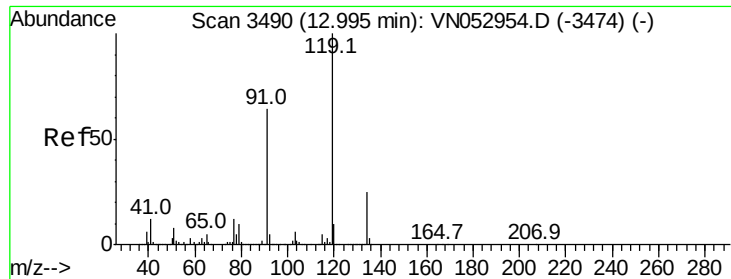
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	91	Resp:	1842699
Ion Ratio	Lower	Upper	
91	100		
126	34.3	17.3	51.7





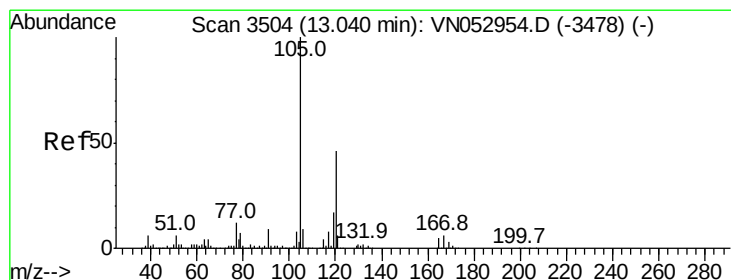
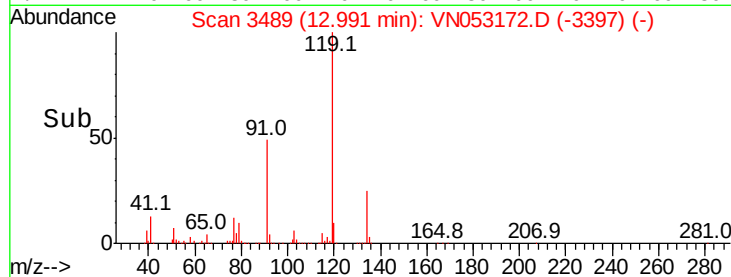
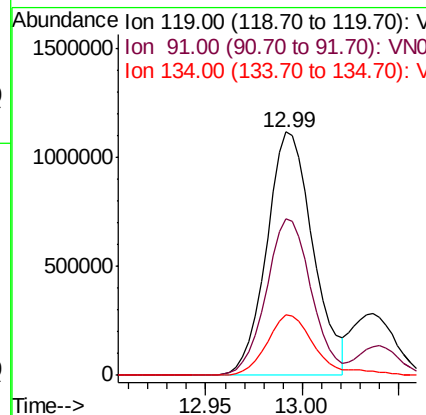
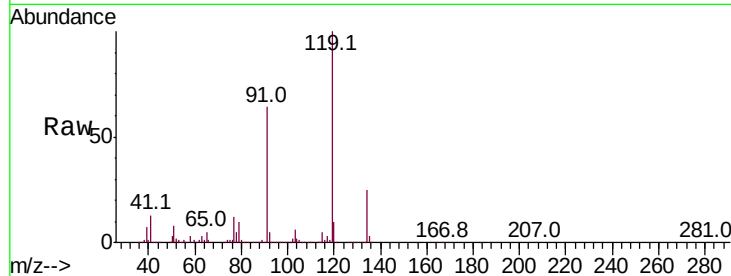
#83
 tert-Butylbenzene
 Concen: 51.307 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.6	31.9	95.5
134	25.9	12.8	38.4

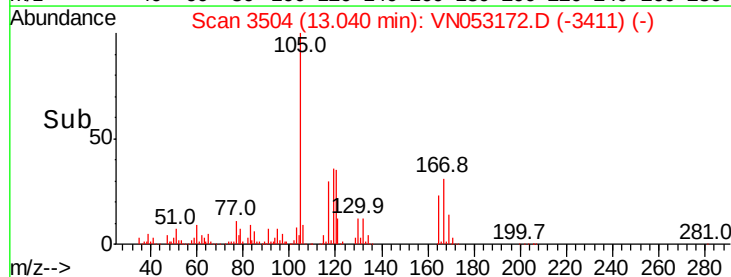
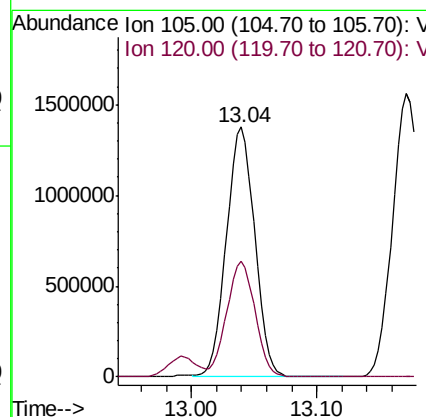
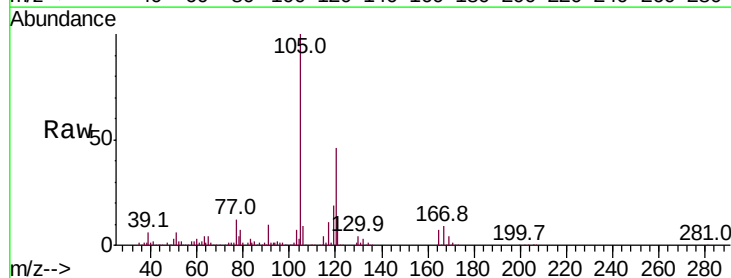
Manual Integrations
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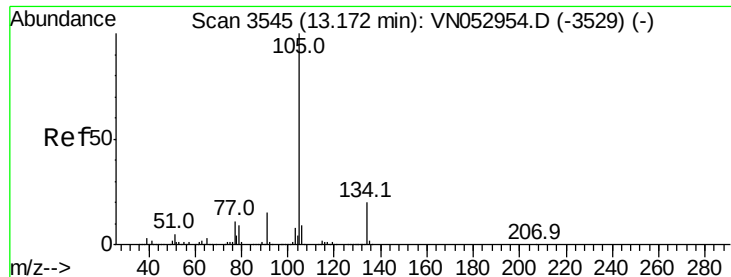
MMDadoda
 12/26/2018 10:53:25 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 52.210 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.9	68.8





#85

sec-Butylbenzene

Concen: 51.021 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2505483

Ion Ratio Lower Upper

105 100

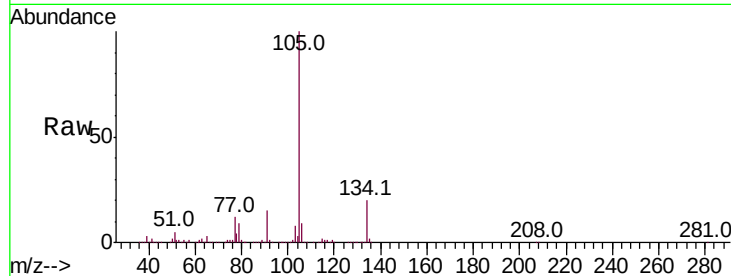
134 20.5 10.1 30.3

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

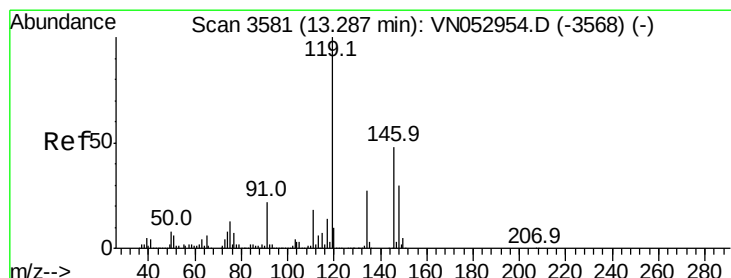
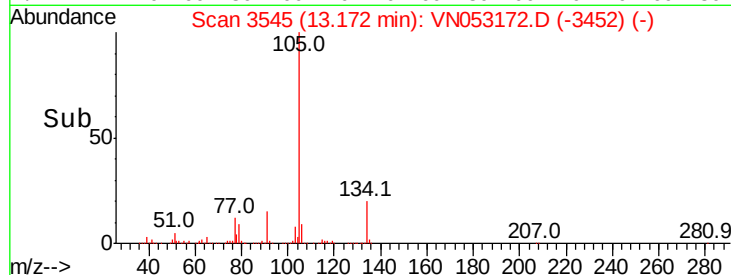
1500000

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 51.558 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

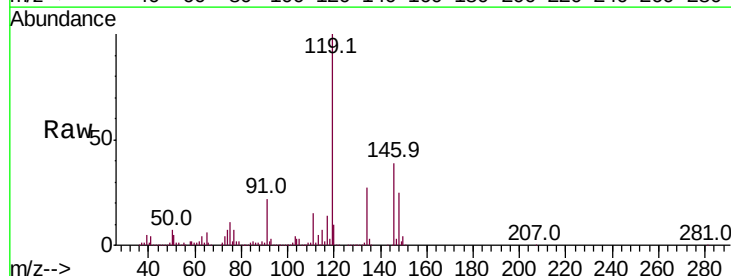
Tgt Ion:119 Resp: 2187758

Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.2

91 22.1 11.1 33.3



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

13.29

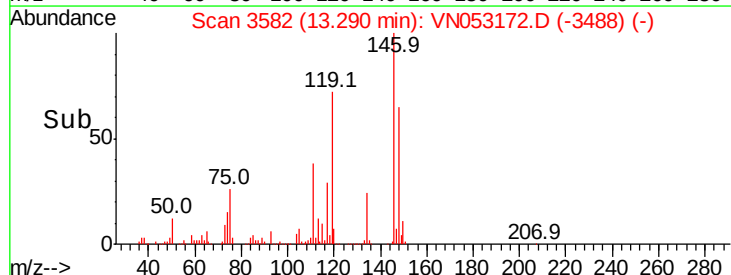
1500000

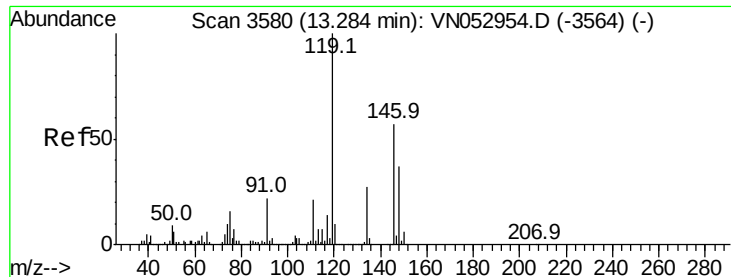
1000000

500000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 51.807 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

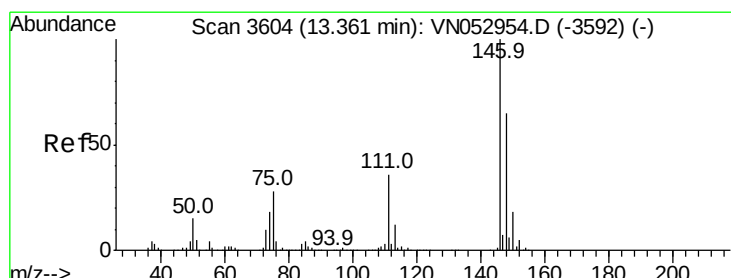
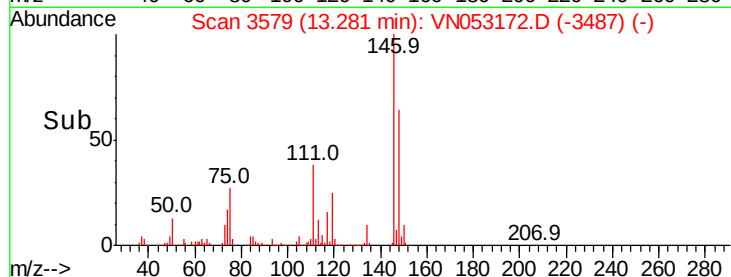
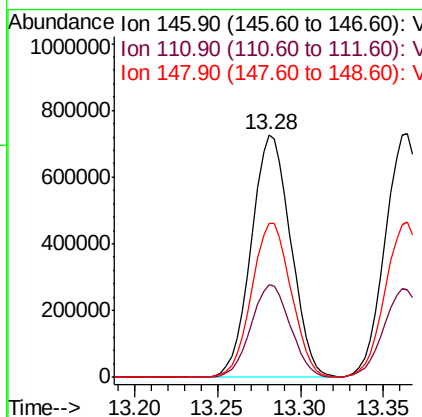
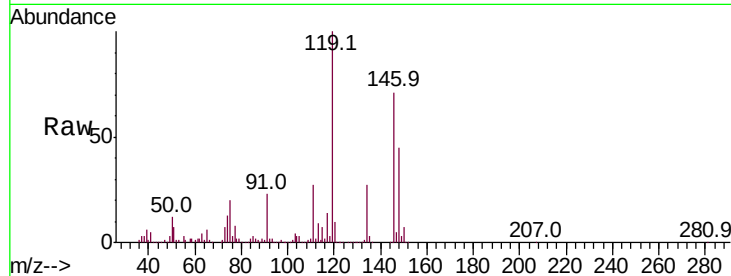
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:146 Resp: 1200424

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.1
148	63.9	32.0	96.0

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 50.984 ug/l

RT: 13.36 min Scan# 3605

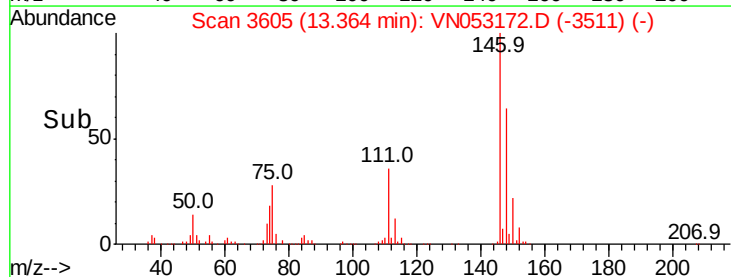
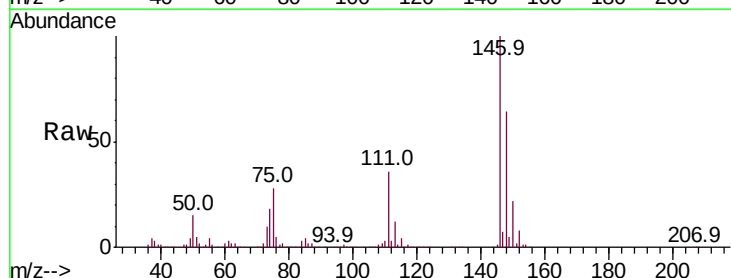
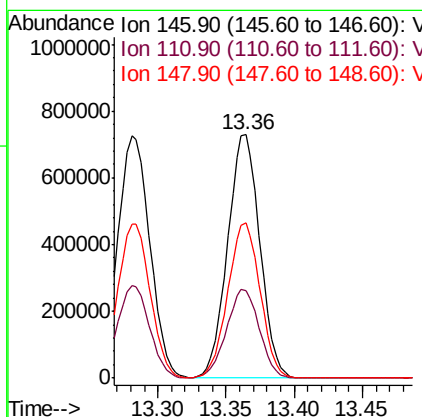
Delta R.T. 0.00 min

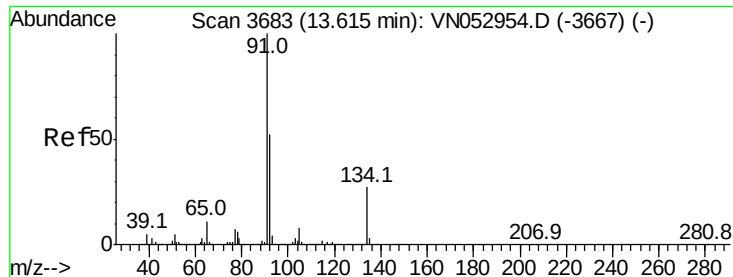
Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:146 Resp: 1196323

Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.6	55.8
148	64.0	32.1	96.5





#89

n-Butylbenzene

Concen: 50.768 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

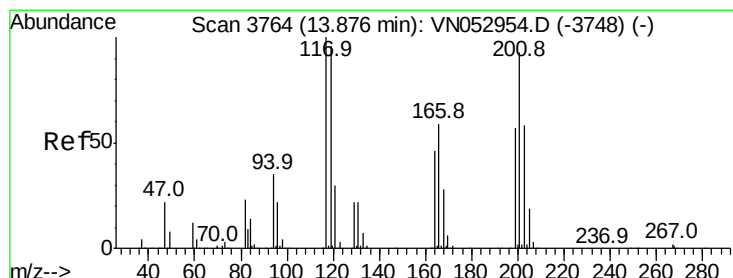
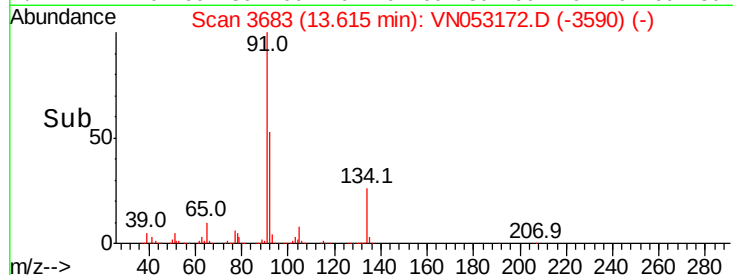
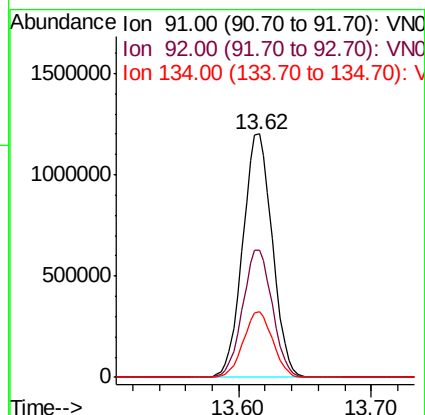
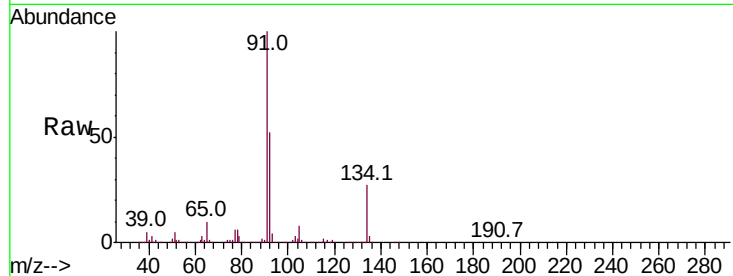
ClientSampleId :

VSTDCCC050

Tot Ion:	91	Resp:	1853297
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.3	78.9
134	26.7	13.3	39.8

Manual Integrations
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#90

Hexachloroethane

Concen: 53.051 ug/l

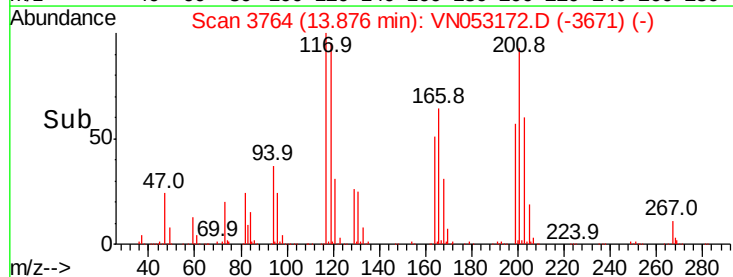
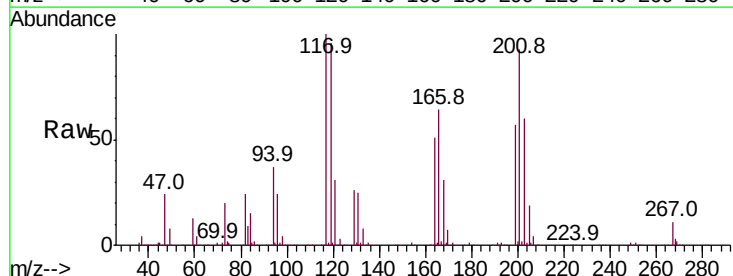
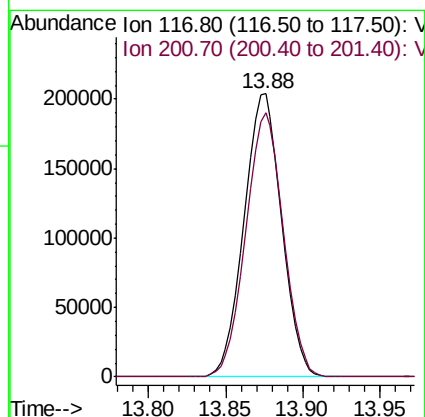
RT: 13.88 min Scan# 3764

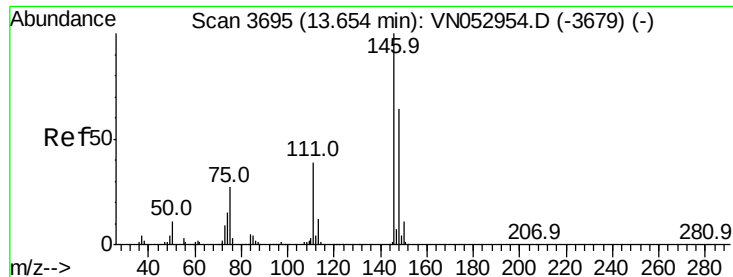
Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Tgt Ion:	117	Resp:	345450
Ion	Ratio	Lower	Upper
117	100		
201	93.0	45.7	137.1





#91

1,2-Dichlorobenzene

Concen: 51.600 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:146 Resp: 1125253

Ion Ratio Lower Upper

146 100

111 39.7 19.7 59.0

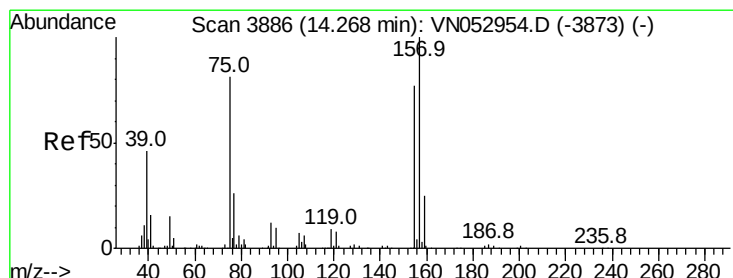
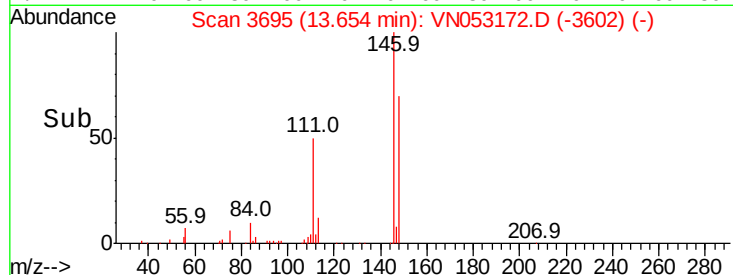
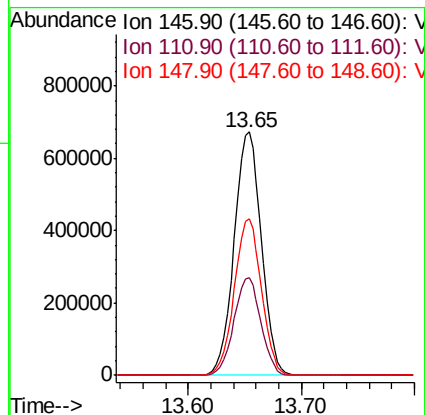
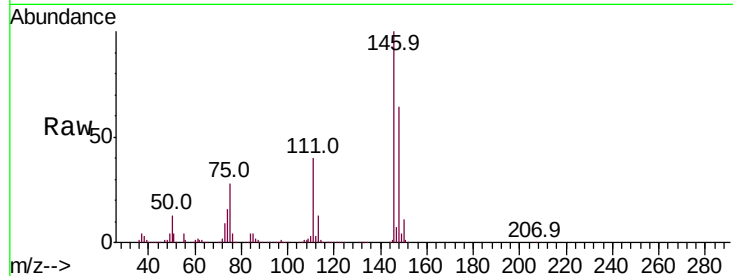
148 64.0 32.0 96.0

Manual Integrations

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MMDadoda

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#92

1,2-Dibromo-3-Chloropropane

Concen: 47.476 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN053172.D

Acq: 24 Dec 2018 9:19

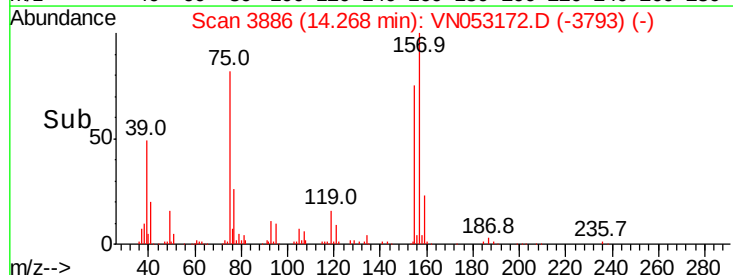
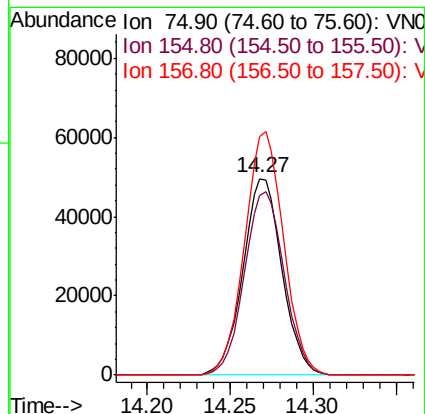
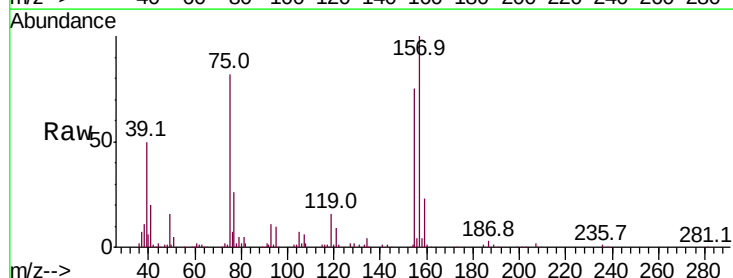
Tgt Ion: 75 Resp: 81109

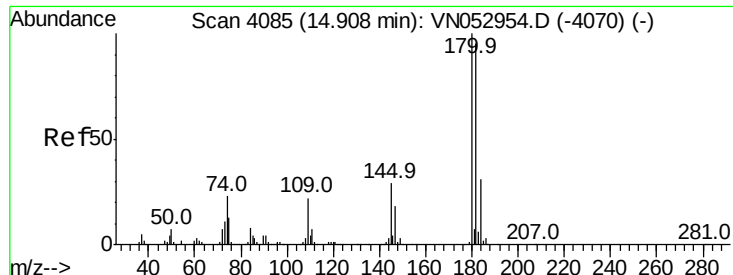
Ion Ratio Lower Upper

75 100

155 95.2 48.2 144.6

157 123.9 61.2 183.5





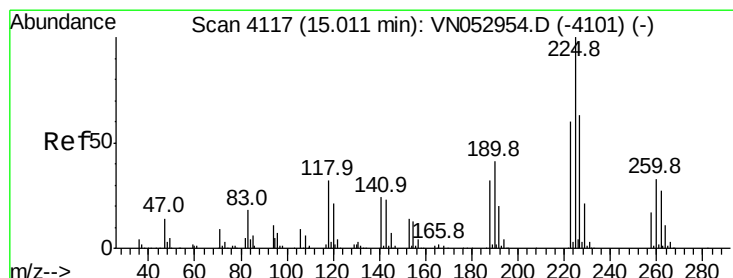
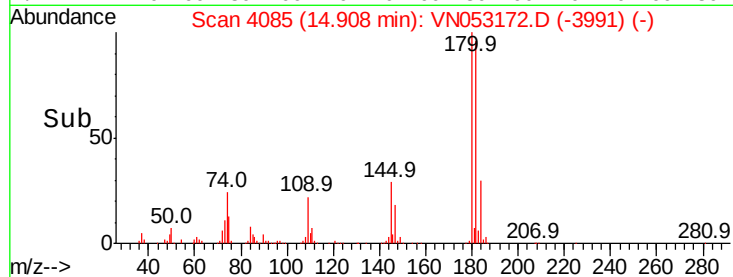
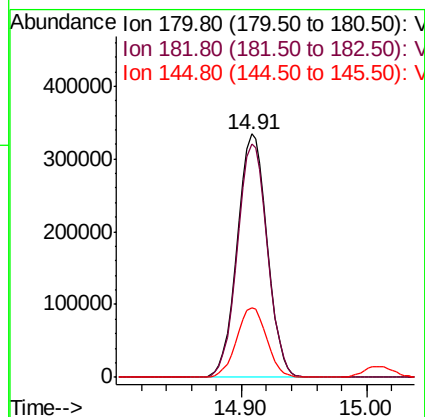
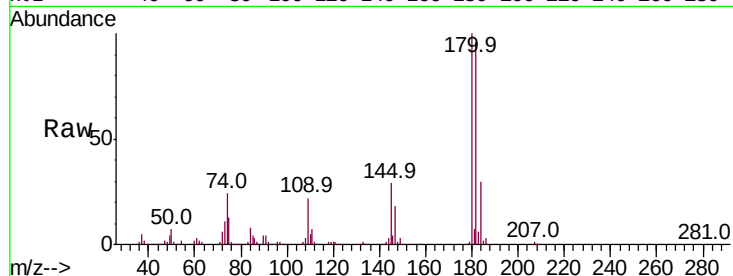
#93
 1,2,4-Trichlorobenzene
 Concen: 47.947 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.5	47.8	143.3	
145	28.6	14.2	42.6	

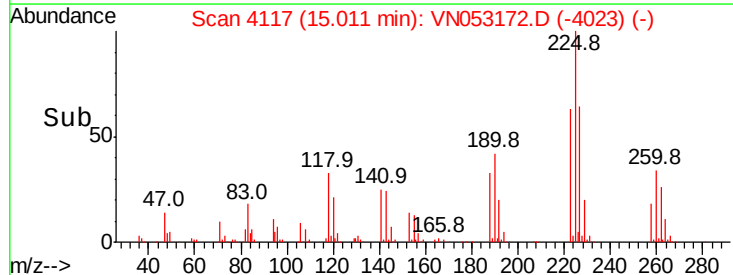
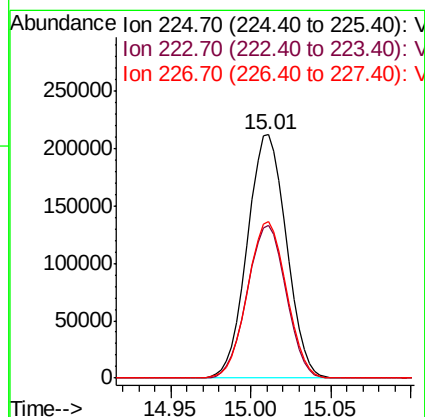
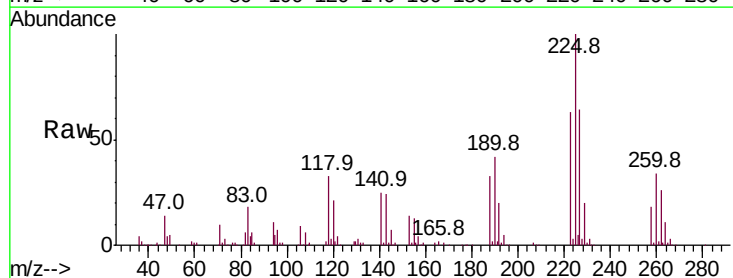
Manual Integrations
 APPROVED

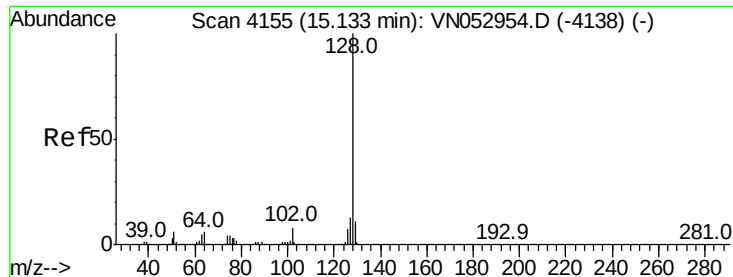
MMDadoda
 12/26/2018 10:53:25 AM



#94
 Hexachlorobutadiene
 Concen: 59.775 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053172.D
 Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.4	31.5	94.5	
227	64.3	31.9	95.7	





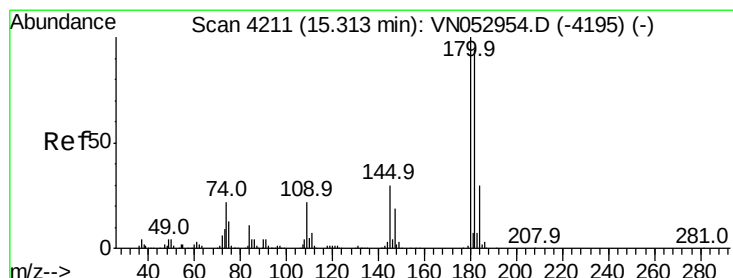
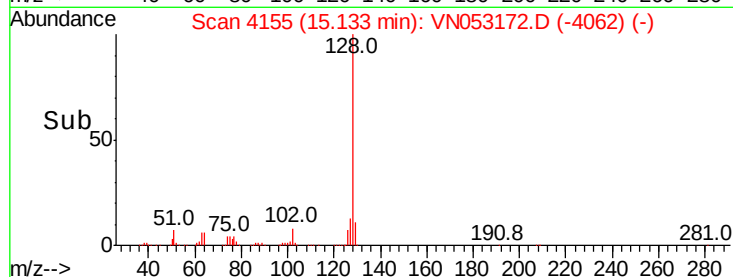
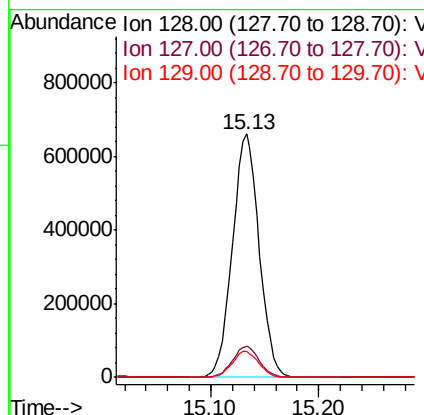
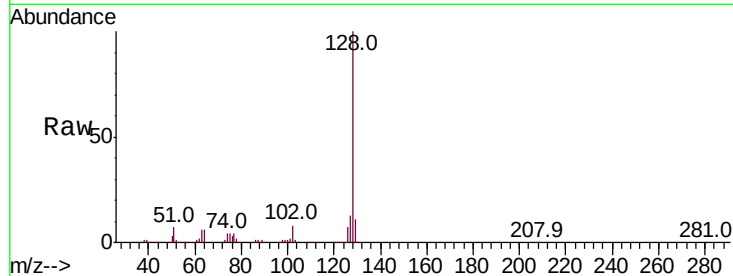
#95
Naphthalene
Concen: 45.053 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/26/2018 10:53:25 AM



#96
1,2,3-Trichlorobenzene
Concen: 46.626 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053172.D
Acq: 24 Dec 2018 9:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.7
145	30.1	15.0	45.0

