

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042219\
 Data File : VN055171.D
 Acq On : 22 Apr 2019 10:12
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 4/23/2019 1:46:34 PM

Quant Time: Apr 23 05:11:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 04:56:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	452705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	715216	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	610048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	230748	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	121857	18.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.68%	
35) Dibromofluoromethane	7.59	113	102721	20.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.04%	
50) Toluene-d8	10.09	98	365404	19.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.34%	
62) 4-Bromofluorobenzene	12.40	95	113354	19.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	127120	21.809	ug/l	100
3) Chloromethane	2.06	50	143495	20.091	ug/l	99
4) Vinyl Chloride	2.19	62	117608	20.550	ug/l	96
5) Bromomethane	2.56	94	62664	18.880	ug/l	97
6) Chloroethane	2.71	64	61756	19.956	ug/l	98
7) Trichlorofluoromethane	3.02	101	157716	20.250	ug/l	94
8) Diethyl Ether	3.41	74	56311	20.257	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	95405	19.631	ug/l	98
10) Methyl Iodide	3.96	142	142516	21.827	ug/l	99
11) Tert butyl alcohol	4.79	59	32712	93.057	ug/l	99
12) 1,1-Dichloroethene	3.74	96	91995	19.752	ug/l	98
13) Acrolein	3.61	56	52573	109.838	ug/l	99
14) Allyl chloride	4.33	41	180429	19.596	ug/l	98
15) Acrylonitrile	4.99	53	194884	99.335	ug/l	99
16) Acetone	3.82	43	233312	115.180	ug/l	97
17) Carbon Disulfide	4.06	76	262809	20.183	ug/l	98
18) Methyl Acetate	4.33	43	86909	15.546	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	254614	19.772	ug/l	99
20) Methylene Chloride	4.55	84	109003	18.718	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	99554	20.384	ug/l	99
22) Diisopropyl ether	5.95	45	366406	19.964	ug/l	97
23) Vinyl Acetate	5.90	43	1245958	101.023	ug/l	99
24) 1,1-Dichloroethane	5.85	63	197394	19.995	ug/l	99
25) 2-Butanone	6.84	43	270818	103.557	ug/l	98
26) 2,2-Dichloropropane	6.82	77	131298	19.654	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	112956	20.063	ug/l	99
28) Bromochloromethane	7.20	49	101978	20.265	ug/l	99
29) Tetrahydrofuran	7.21	42	159163	96.832	ug/l	99
30) Chloroform	7.37	83	185114	19.713	ug/l	98
31) Cyclohexane	7.66	56	191407	16.886	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	149630	19.834	ug/l	100
36) 1,1-Dichloropropene	7.79	75	137868	20.769	ug/l	99
37) Ethyl Acetate	6.93	43	100887	18.190	ug/l #	81
38) Carbon Tetrachloride	7.78	117	127572	19.234	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	156696	19.786	ug/l	98
40) Benzene	8.04	78	421823	20.585	ug/l	99
41) Methacrylonitrile	7.17	41	52242	19.106	ug/l #	91
42) 1,2-Dichloroethane	8.12	62	142385	19.917	ug/l	99
43) Isopropyl Acetate	8.17	43	173923	20.048	ug/l #	87
44) Trichloroethene	8.84	130	103864	20.053	ug/l	99
45) 1,2-Dichloropropane	9.12	63	115768	20.014	ug/l	99
46) Dibromomethane	9.21	93	66269	20.013	ug/l	99
47) Bromodichloromethane	9.40	83	135955	20.510	ug/l	99
48) Methyl methacrylate	9.20	41	77868	18.504	ug/l	95
49) 1,4-Dioxane	9.20	88	18462	379.898	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	482691	96.692	ug/l	100
52) Toluene	10.16	92	243838	20.298	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	119453	19.636	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	151617	20.084	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	89732	20.260	ug/l	97
56) Ethyl methacrylate	10.43	69	108059	19.586	ug/l	100
57) 1,3-Dichloropropane	10.71	76	157056	20.382	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	170098	95.624	ug/l	99
59) 2-Hexanone	10.75	43	320665	101.695	ug/l	100
60) Dibromochloromethane	10.90	129	93273	20.446	ug/l	98
61) 1,2-Dibromoethane	11.00	107	82826	19.891	ug/l	99
64) Tetrachloroethene	10.63	164	100960	20.287	ug/l	97
65) Chlorobenzene	11.43	112	239503	19.234	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	94075	20.385	ug/l	99
67) Ethyl Benzene	11.51	91	443397	19.990	ug/l	100
68) m/p-Xylenes	11.62	106	323520	40.667	ug/l	99
69) o-Xylene	11.95	106	160338	20.309	ug/l	98
70) Styrene	11.96	104	250828	20.497	ug/l	98
71) Bromoform	12.13	173	55226	20.053	ug/l #	100
73) Isopropylbenzene	12.25	105	423032	19.097	ug/l	100
74) N-amyl acetate	12.07	43	112974	18.990	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	106095	18.098	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	82847m	19.158	ug/l	
77) Bromobenzene	12.53	156	98878	19.410	ug/l	98
78) n-propylbenzene	12.59	91	452877	19.570	ug/l	100
79) 2-Chlorotoluene	12.67	91	281400	19.258	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	337493	19.538	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	22353	18.101	ug/l	94
82) 4-Chlorotoluene	12.77	91	261727	19.468	ug/l	100
83) tert-Butylbenzene	12.99	119	293859	19.016	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	324940	19.934	ug/l	100
85) sec-Butylbenzene	13.17	105	367935	18.828	ug/l	98
86) p-Isopropyltoluene	13.29	119	316735	19.673	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	152850	19.546	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	144678	19.002	ug/l	99
89) n-Butylbenzene	13.61	91	228461	19.144	ug/l	97
90) Hexachloroethane	13.87	117	53676	18.798	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	155341	19.340	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	12921	18.440	ug/l	99

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Manual Integrations
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Quant Title : SW846 8260
QLast Update : Tue Apr 23 04:56:29 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	54383	19.179	ug/l	98
94) Hexachlorobutadiene	15.01	225	52443	18.243	ug/l	94
95) Naphthalene	15.13	128	111557	18.624	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	57346	19.439	ug/l	98

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

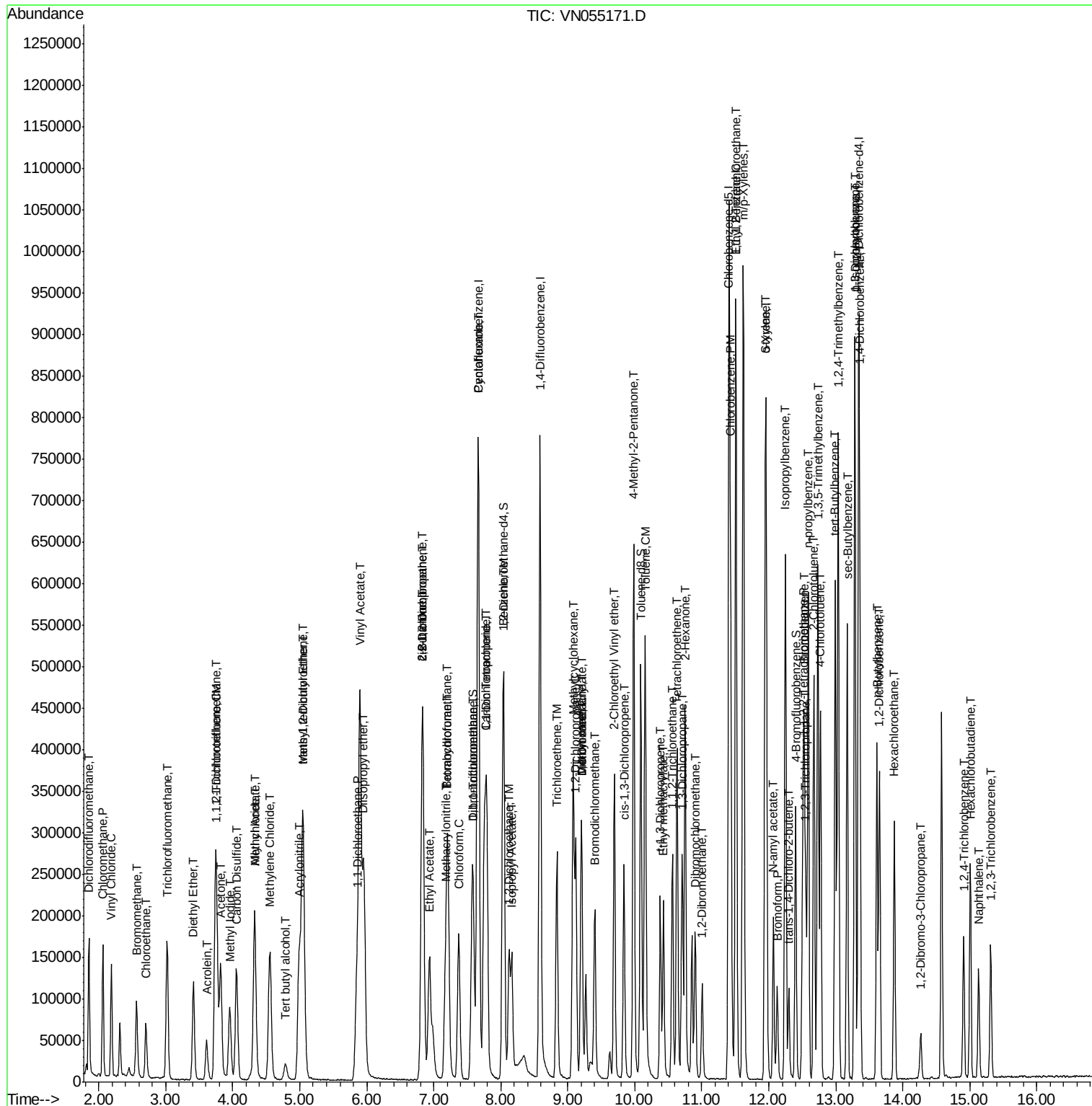
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 Data File : VN055171.D
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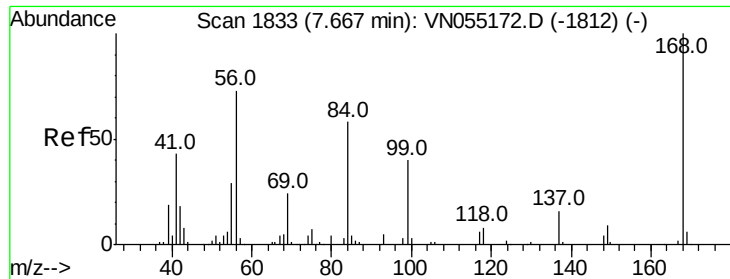
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 452705

Ion Ratio Lower Upper

168 100

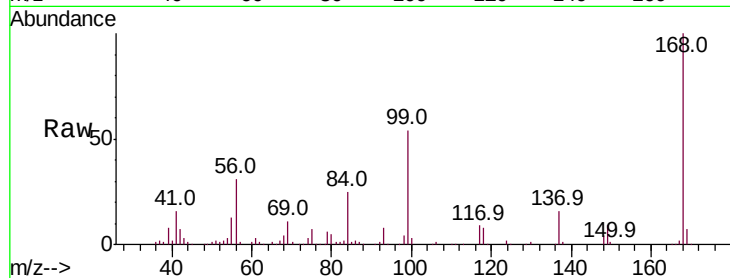
99 53.3 42.0 63.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

200000

150000

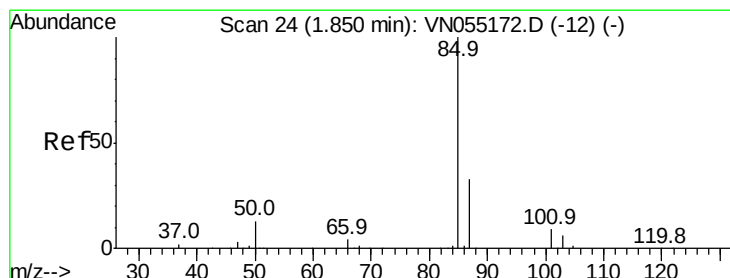
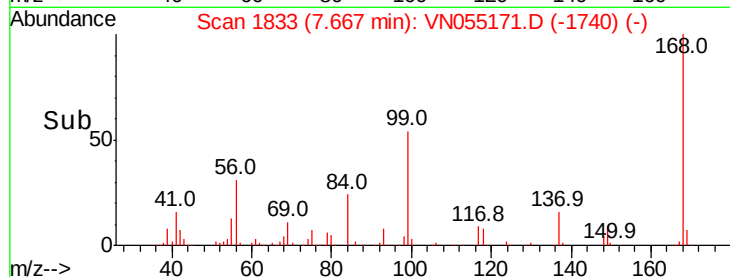
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50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.809 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055171.D

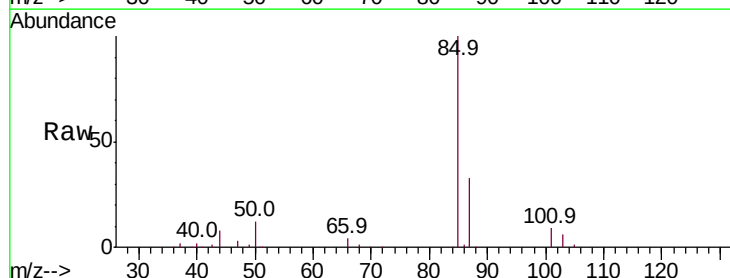
Acq: 22 Apr 2019 10:12

Tgt Ion: 85 Resp: 127120

Ion Ratio Lower Upper

85 100

87 32.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

100000

80000

60000

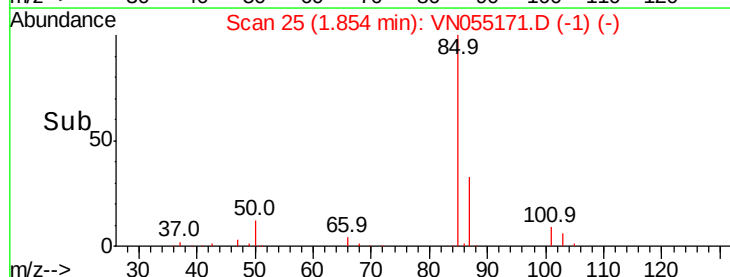
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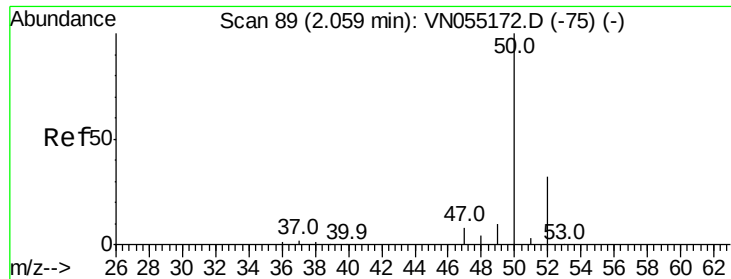
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1.80 1.85 1.90 1.95

Time-->





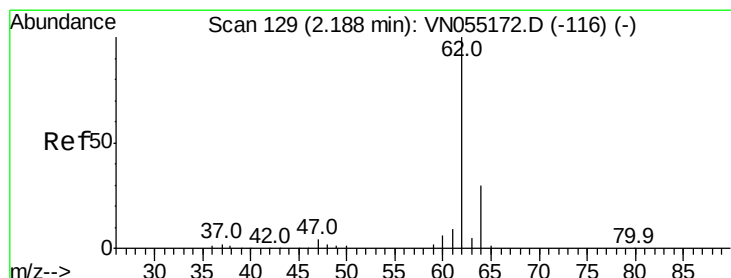
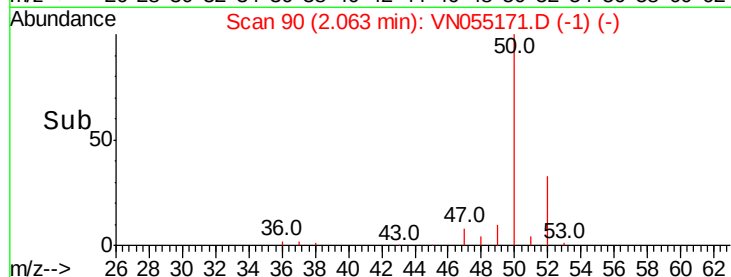
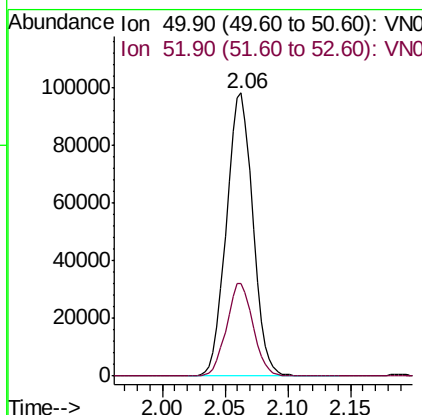
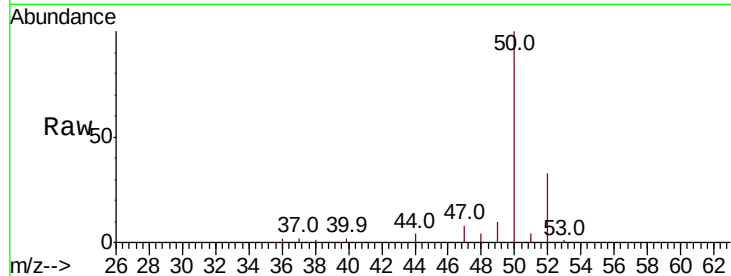
#3
Chloromethane
Concen: 20.091 ug/l
RT: 2.06 min Scan# 90
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.8	38.6

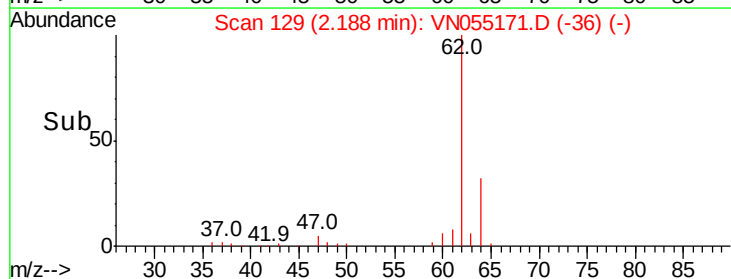
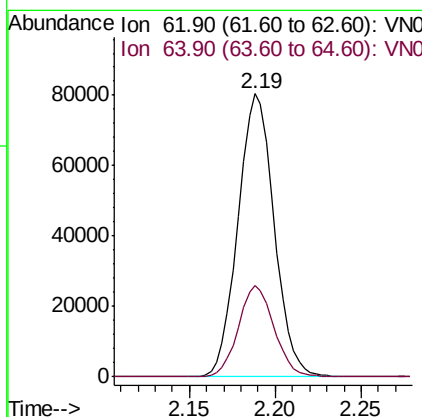
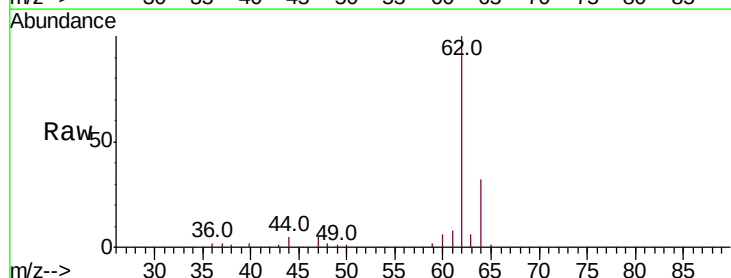
Manual Integrations
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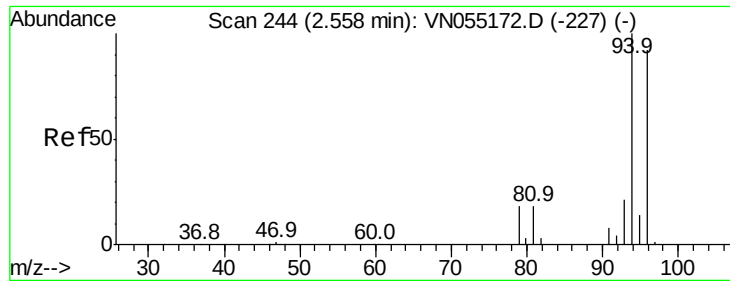
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#4
Vinyl Chloride
Concen: 20.550 ug/l
RT: 2.19 min Scan# 129
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.2	36.4





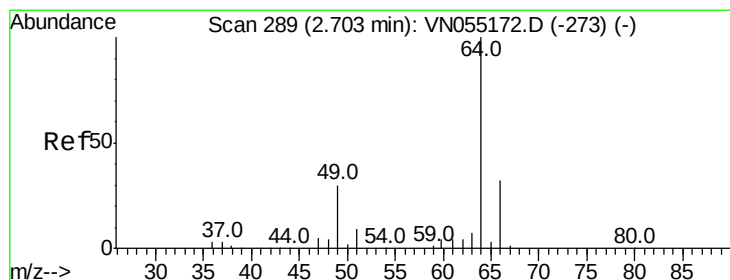
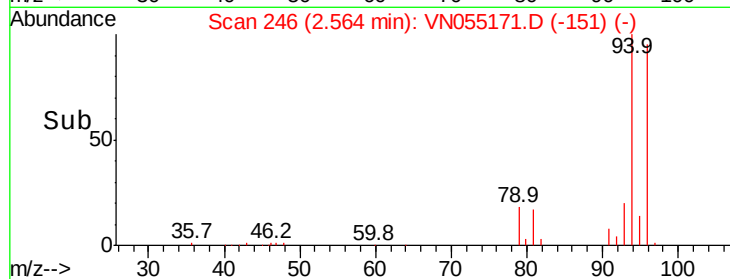
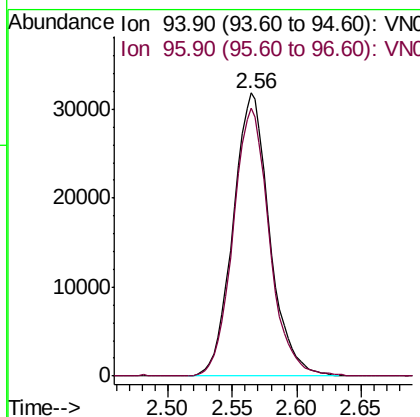
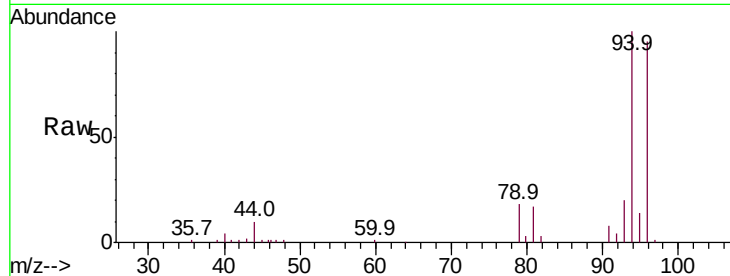
#5
Bromomethane
Concen: 18.880 ug/l
RT: 2.56 min Scan# 246
Delta R.T. 0.01 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 94 Resp: 62664
Ion Ratio Lower Upper
94 100
96 94.6 73.4 110.2

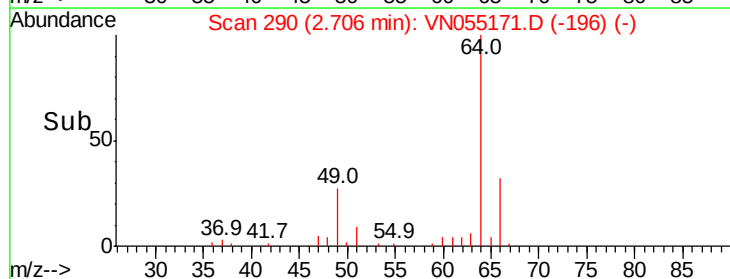
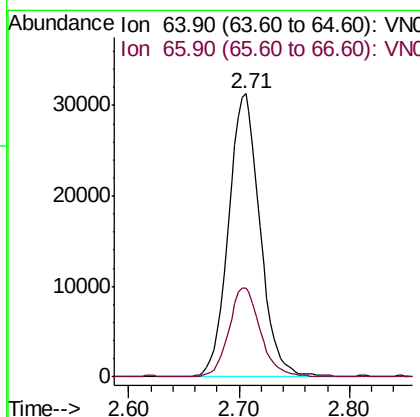
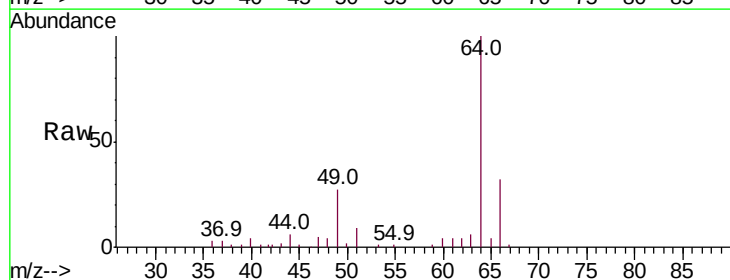
Manual Integrations
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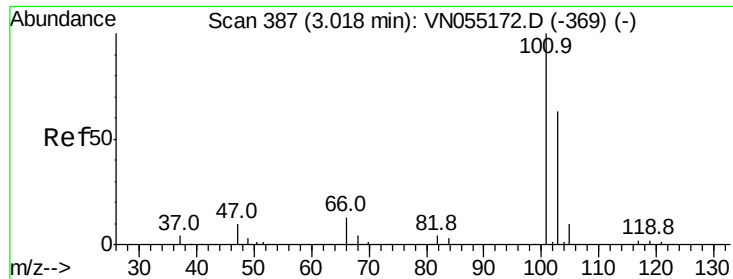
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#6
Chloroethane
Concen: 19.956 ug/l
RT: 2.71 min Scan# 290
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion: 64 Resp: 61756
Ion Ratio Lower Upper
64 100
66 31.6 25.9 38.9





#7

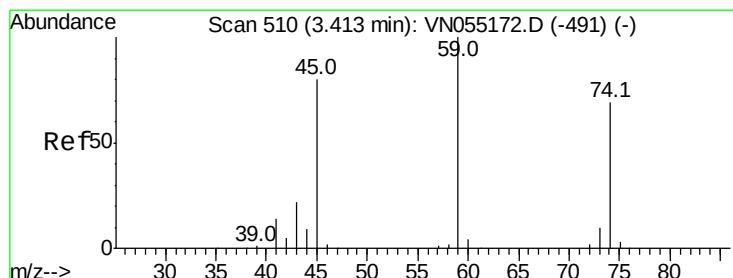
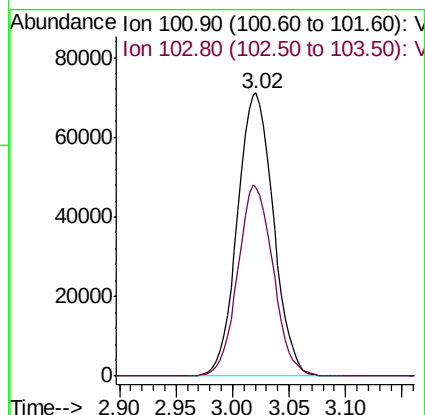
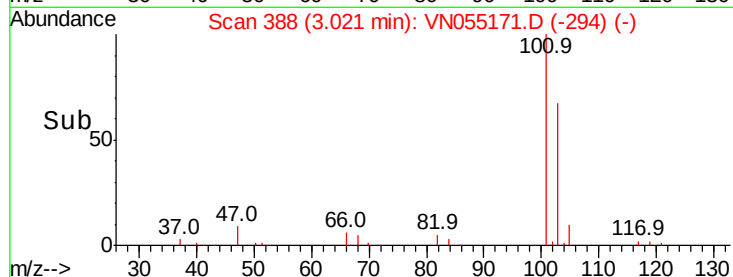
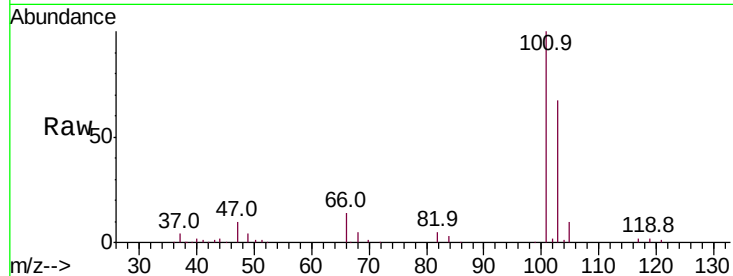
Trichlorofluoromethane
Concen: 20.250 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.9	50.1	75.1

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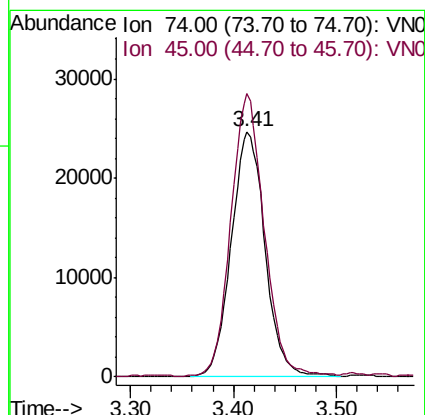
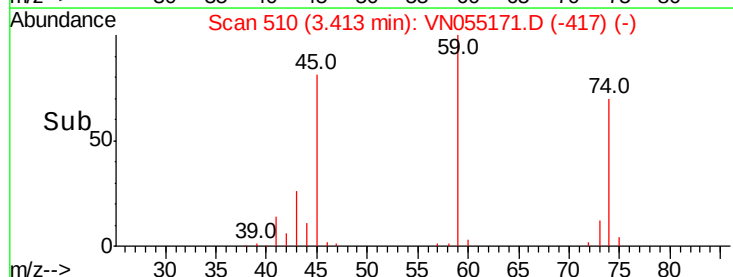
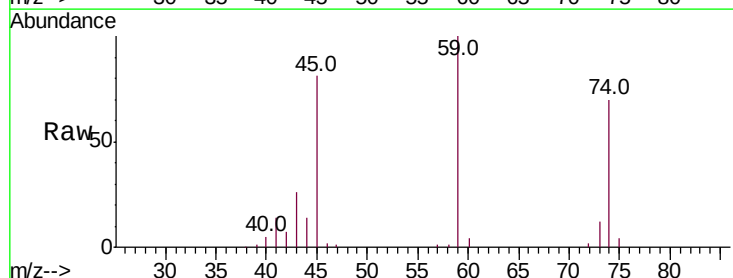
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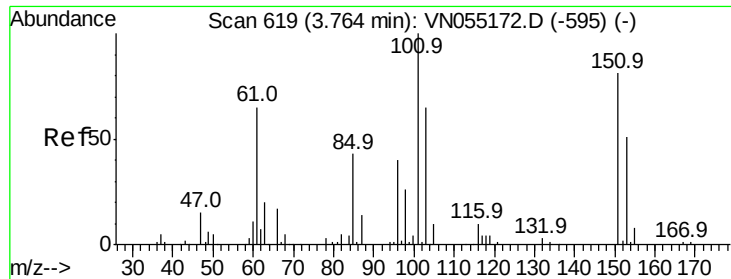


#8

Diethyl Ether
Concen: 20.257 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	114.6	56.9	170.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.631 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

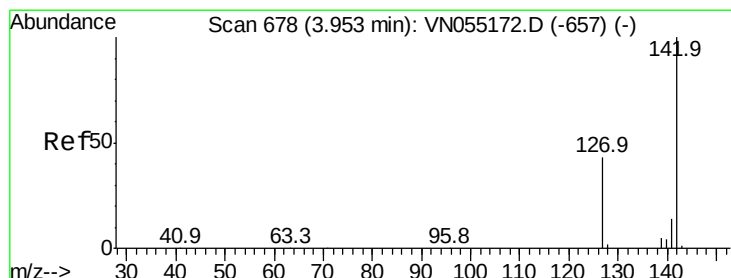
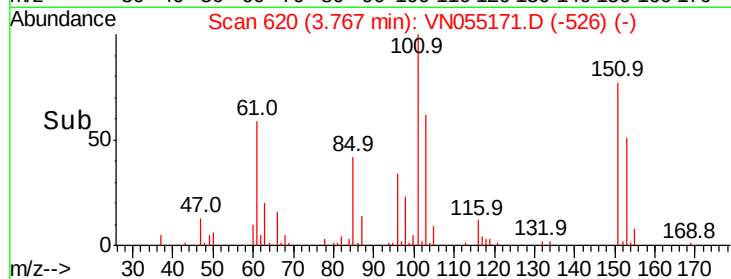
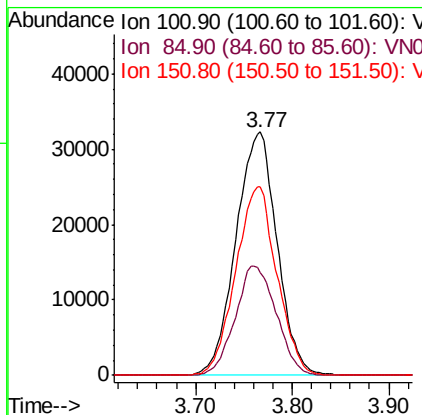
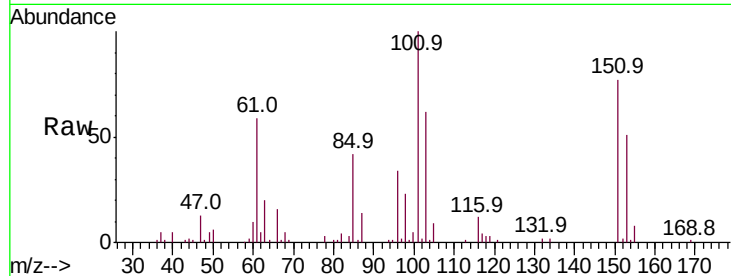
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	95405
Ion Ratio	Lower	Upper	
101	100		
85	44.7	34.9	52.3
151	77.6	63.8	95.8

Manual Integrations
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MMDadoda
4/23/2019 1:46:34 PM



#10

Methyl Iodide

Concen: 21.827 ug/l

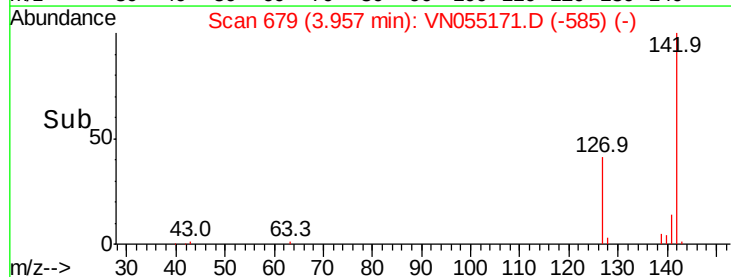
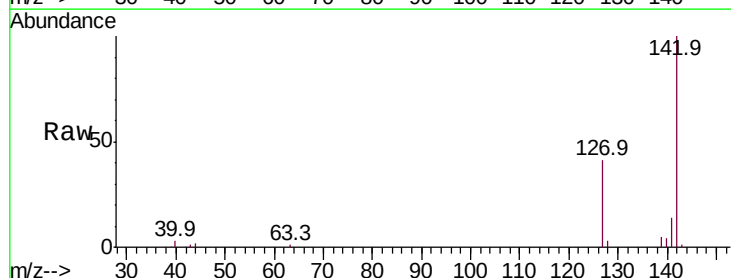
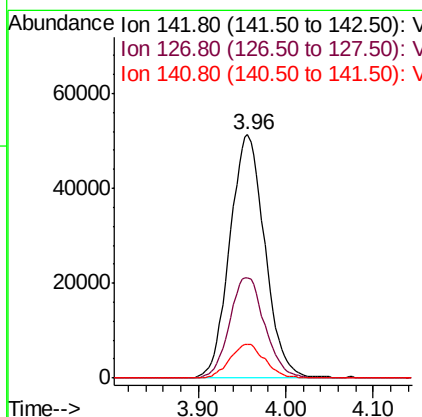
RT: 3.96 min Scan# 679

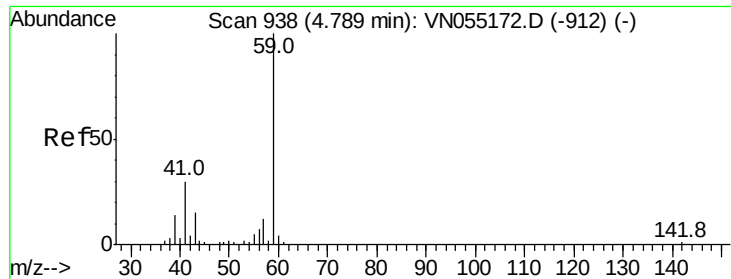
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	142	Resp:	142516
Ion Ratio	Lower	Upper	
142	100		
127	41.7	34.1	51.1
141	13.8	11.4	17.2





#11

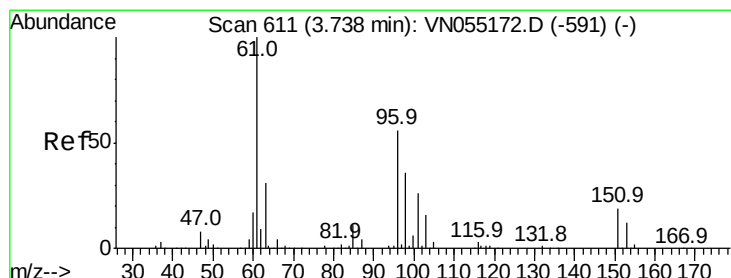
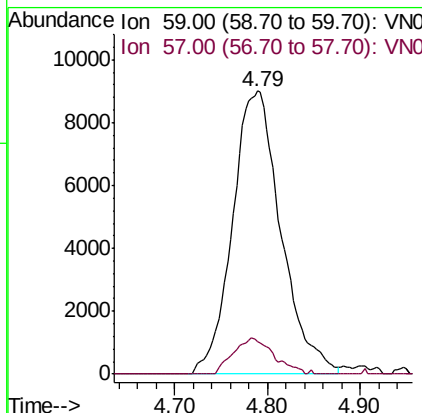
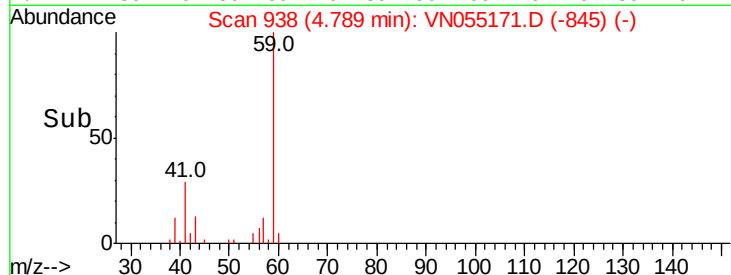
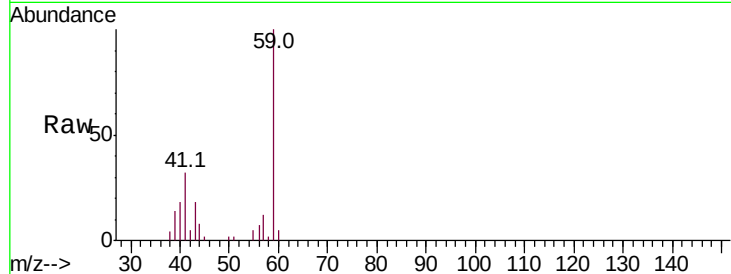
Tert butyl alcohol
 Concen: 93.057 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	59	Resp	32712
Ion Ratio	100	Lower	Upper
57	10.7	8.8	13.2

Manual Integrations
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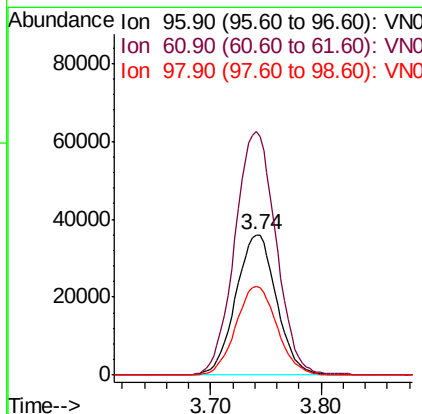
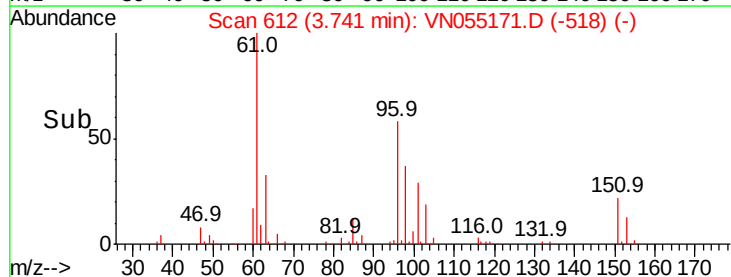
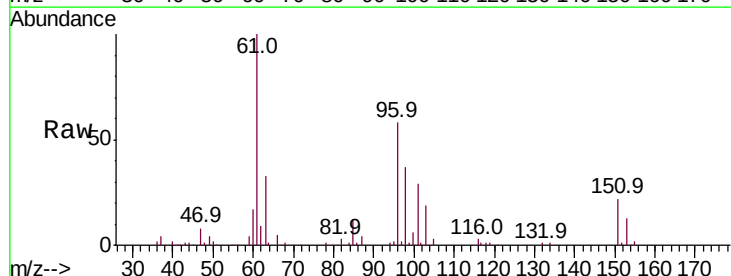
MMDadoda
 4/23/2019 1:46:34 PM

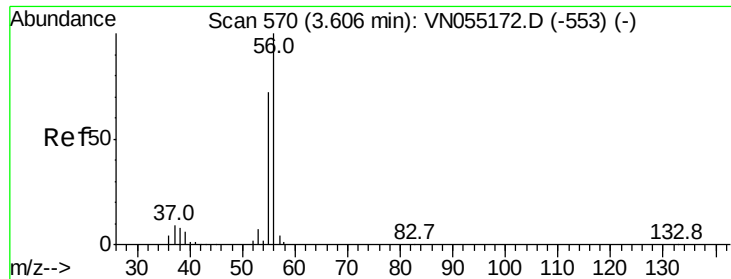


#12

1,1-Dichloroethene
 Concen: 19.752 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion	96	Resp	91995
Ion Ratio	100	Lower	Upper
61	173.3	142.1	213.1
98	63.4	51.2	76.8





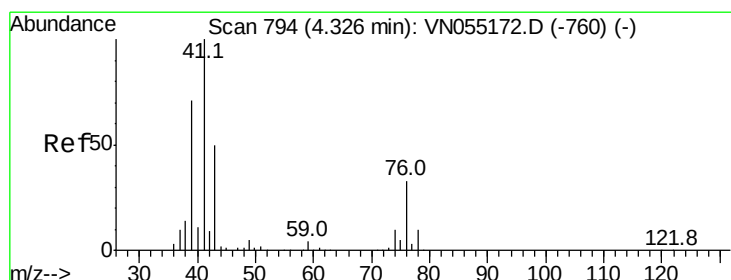
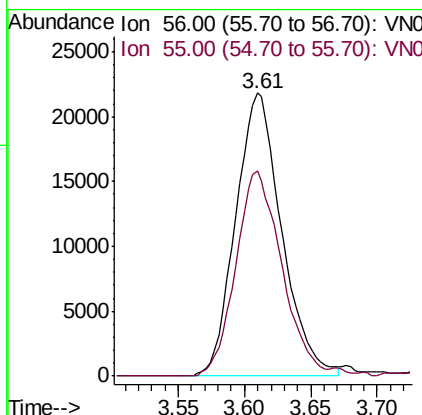
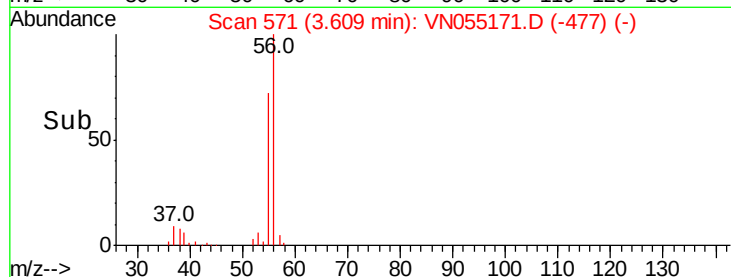
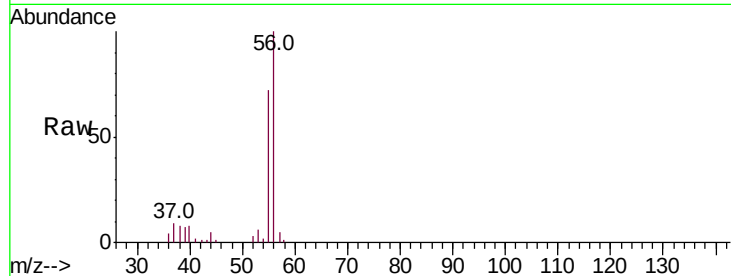
#13
Acrolein
Concen: 109.838 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 56 Resp: 52573
Ion Ratio Lower Upper
56 100
55 72.3 57.4 86.0

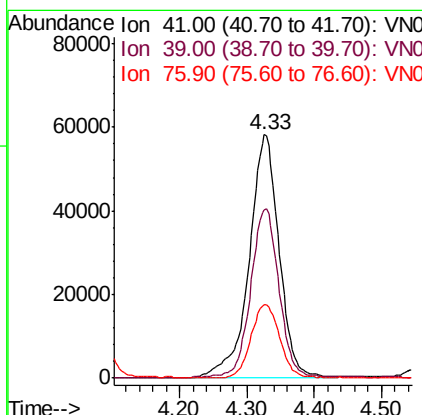
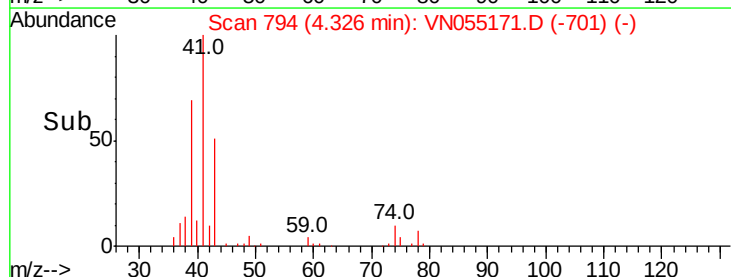
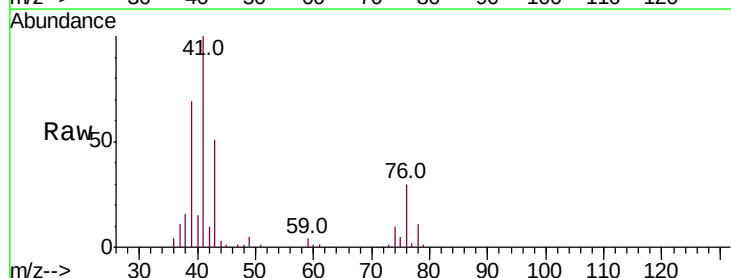
Manual Integrations
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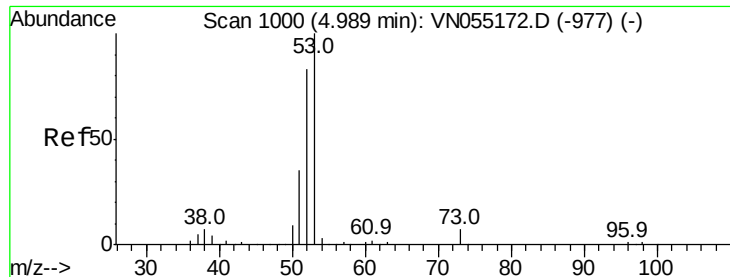
MMDadoda
4/23/2019 1:46:34 PM



#14
Allyl chloride
Concen: 19.596 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion: 41 Resp: 180429
Ion Ratio Lower Upper
41 100
39 64.4 52.9 79.3
76 29.0 23.6 35.4





#15

Acrylonitrile

Concen: 99.335 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

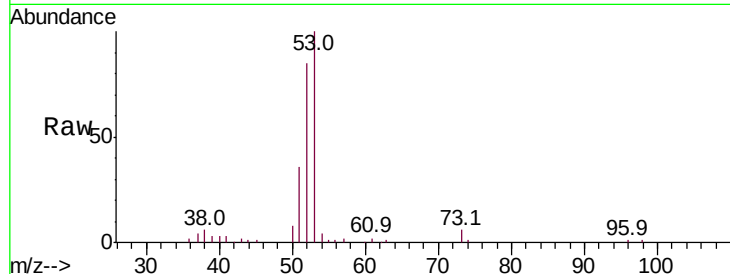
ClientSampleId :

VSTDIC020

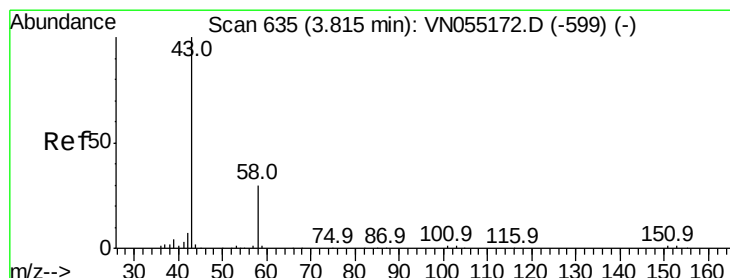
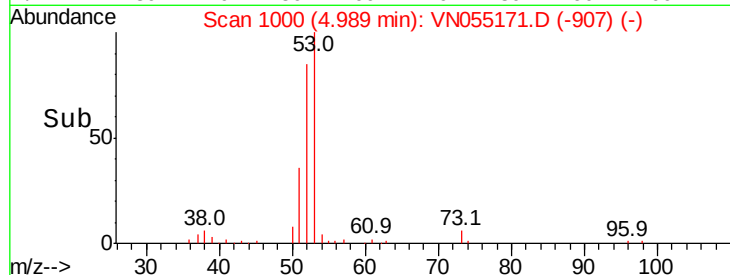
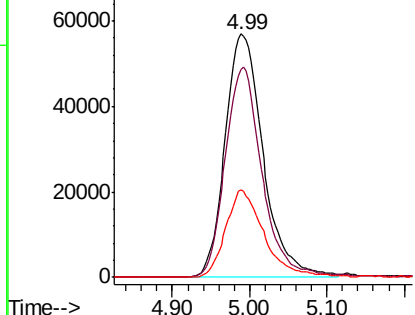
Tot Ion:	53	Resp:	194884
Ion	Ratio	Lower	Upper
53	100		
52	83.2	65.8	98.8
51	35.8	28.9	43.3

Manual Integrations
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Abundance Ion 53.00 (52.70 to 53.70): VN0
Ion 52.00 (51.70 to 52.70): VN0
Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 115.180 ug/l

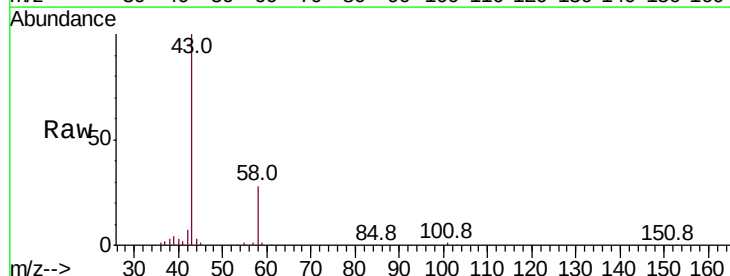
RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

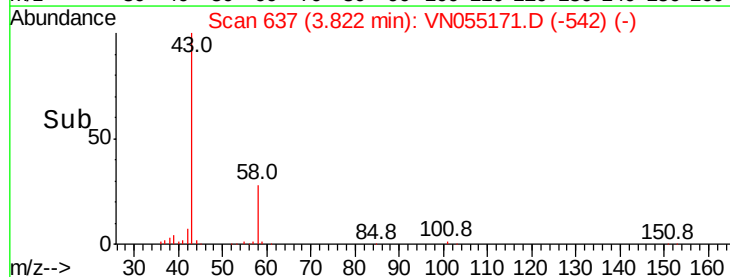
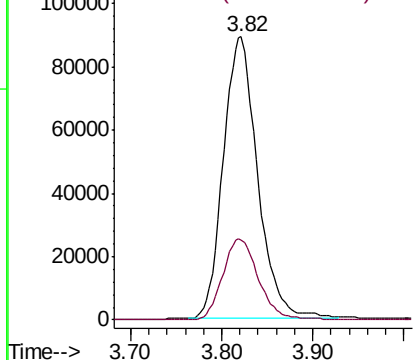
Lab File: VN055171.D

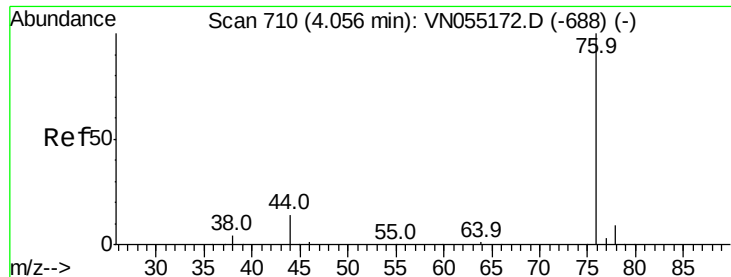
Acq: 22 Apr 2019 10:12

Tgt Ion:	43	Resp:	233312
Ion	Ratio	Lower	Upper
43	100		
58	28.2	23.8	35.8



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 20.183 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 262809

Ion Ratio Lower Upper

76 100

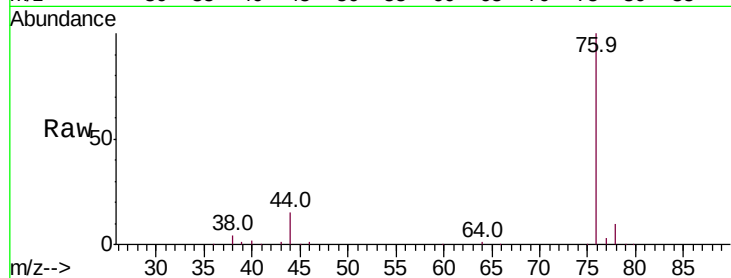
78 9.8 7.3 10.9

Manual Integrations

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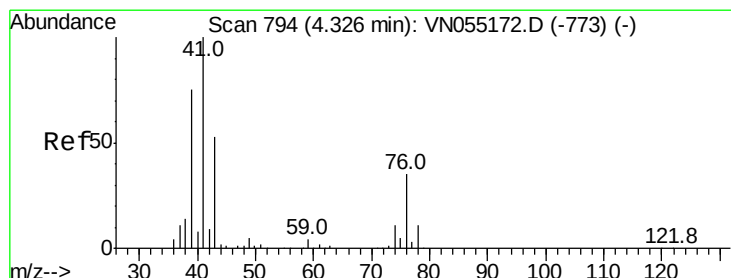
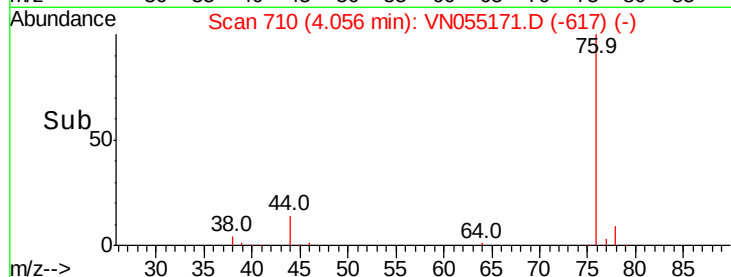
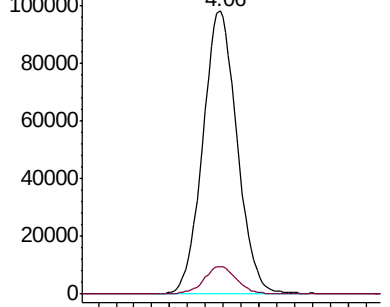
MMDadoda

4/23/2019 1:46:34 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 15.546 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055171.D

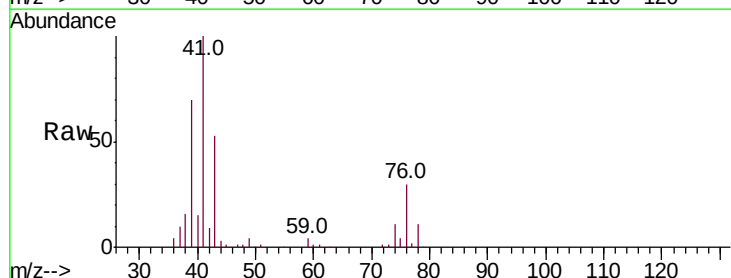
Acq: 22 Apr 2019 10:12

Tgt Ion: 43 Resp: 86909

Ion Ratio Lower Upper

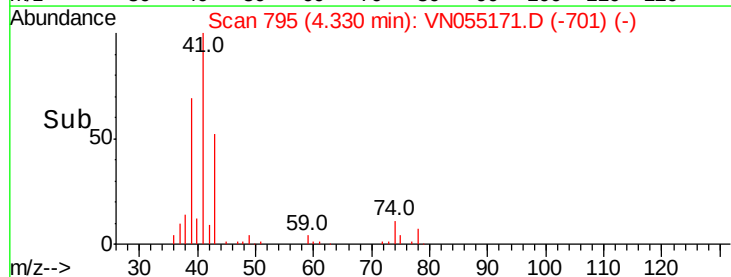
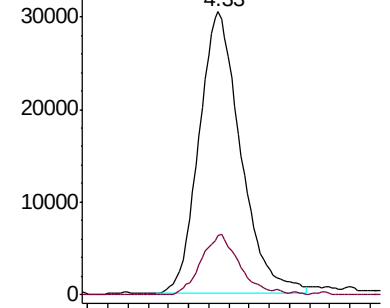
43 100

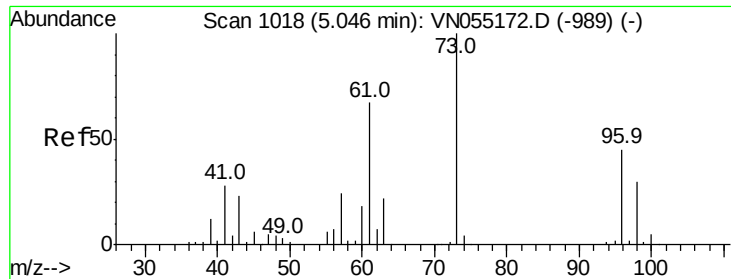
74 19.9 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





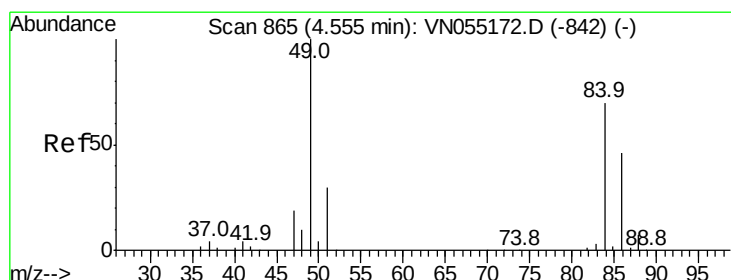
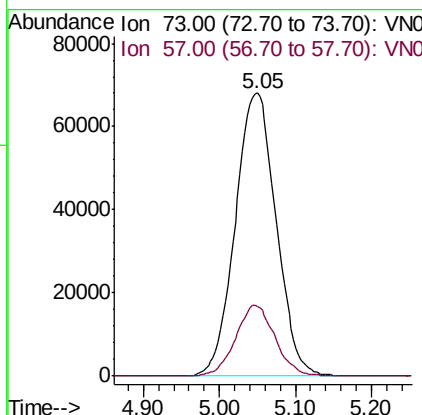
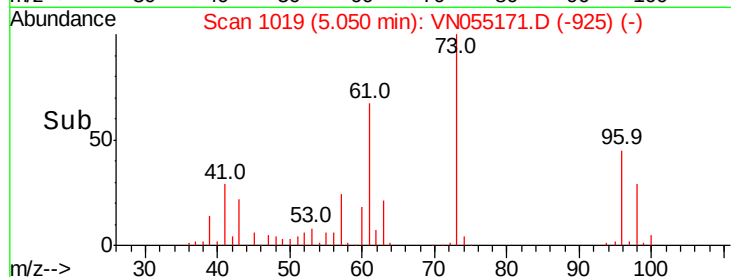
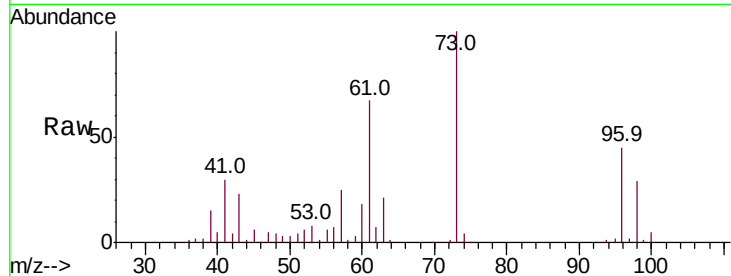
#19
Methyl tert-butyl Ether
Concen: 19.772 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 254614
Ion Ratio Lower Upper
73 100
57 24.7 19.5 29.3

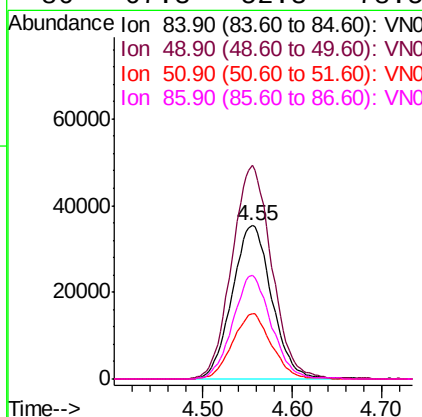
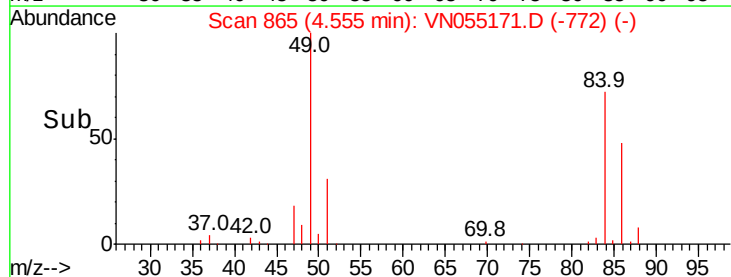
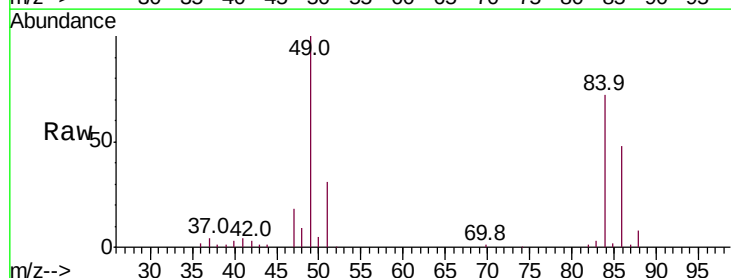
Manual Integrations
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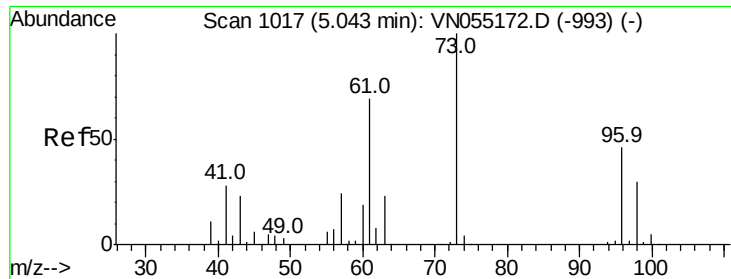
MMDadoda
4/23/2019 1:46:34 PM



#20
Methylene Chloride
Concen: 18.718 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion: 84 Resp: 109003
Ion Ratio Lower Upper
84 100
49 139.3 113.8 170.6
51 42.8 34.0 51.0
86 67.3 52.3 78.5





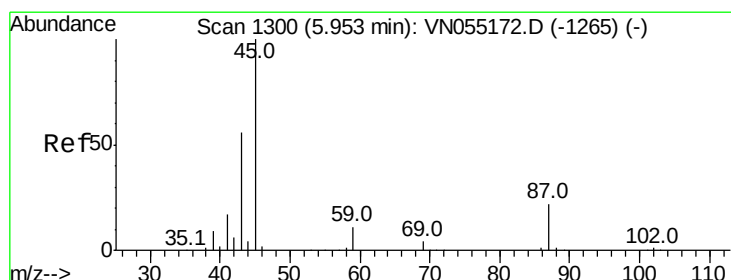
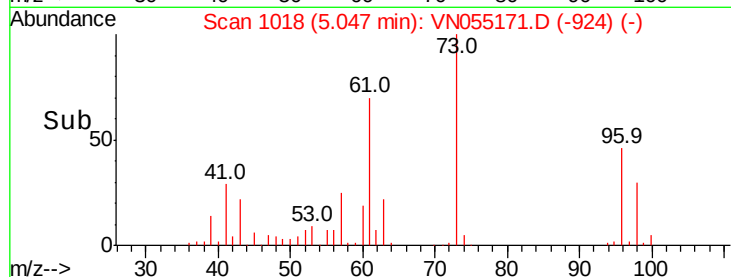
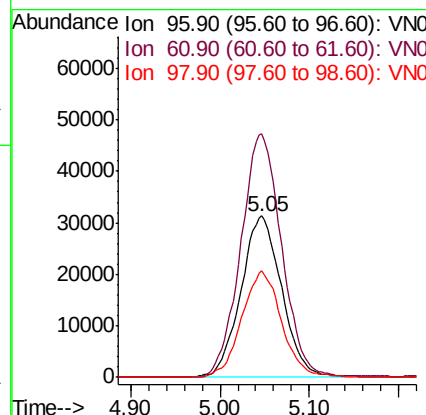
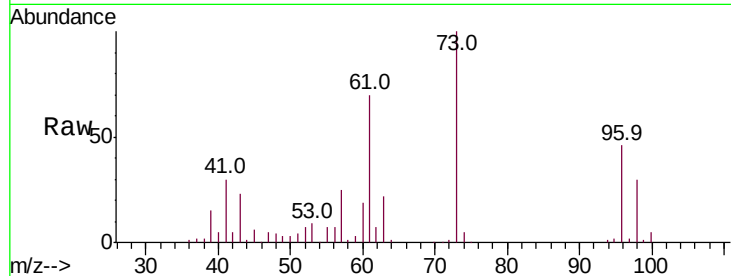
#21
trans-1,2-Dichloroethene
Concen: 20.384 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.9	119.3	178.9
98	65.8	53.0	79.4

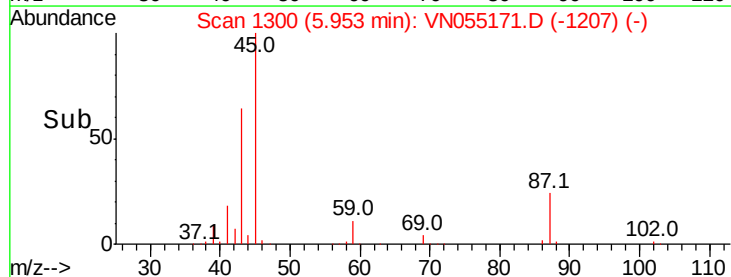
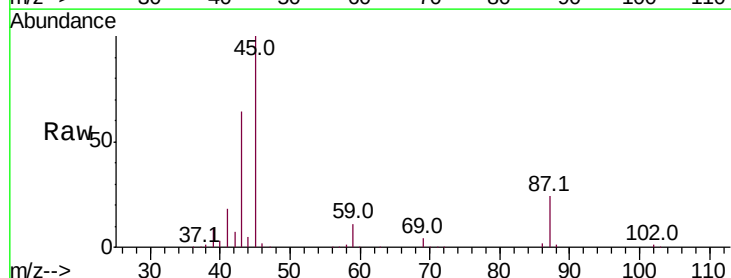
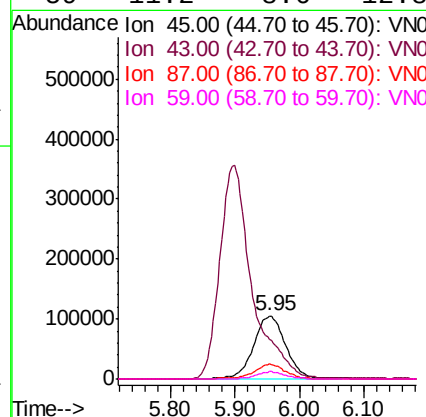
Manual Integrations
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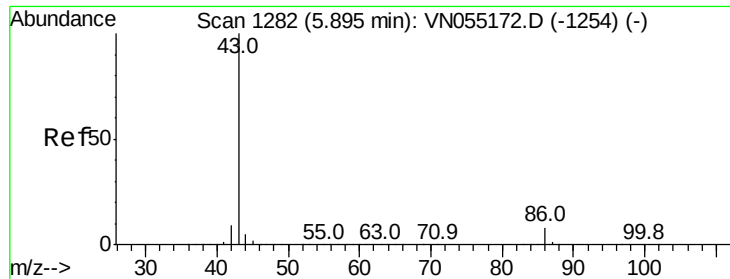
MMDadoda
4/23/2019 1:46:34 PM



#22
Diisopropyl ether
Concen: 19.964 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.7	47.4	71.0
87	23.3	18.4	27.6
59	11.2	8.6	12.8





#23

Vinyl Acetate

Concen: 101.023 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1245958

Ion Ratio Lower Upper

43 100

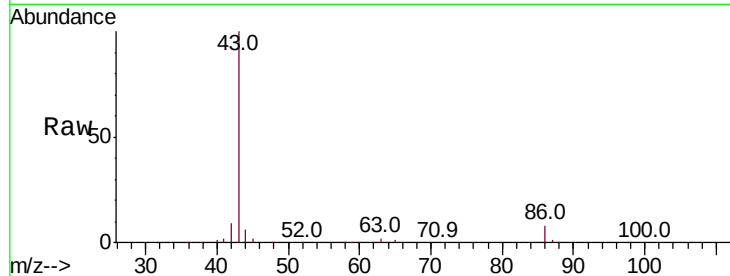
86 8.3 6.8 10.2

Manual Integrations

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MMDadoda

4/23/2019 1:46:34 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

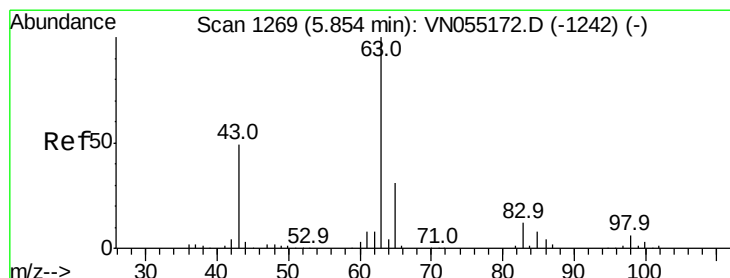
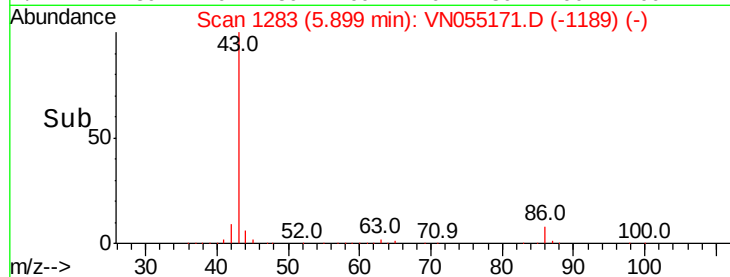
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.995 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

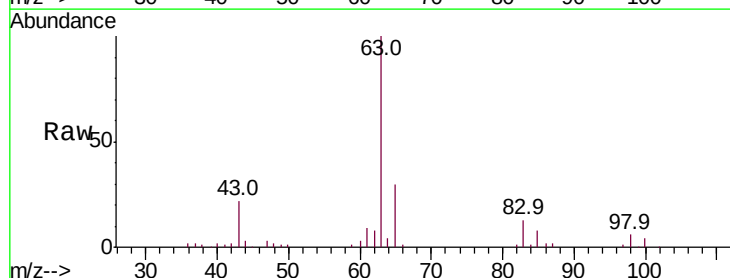
Tgt Ion: 63 Resp: 197394

Ion Ratio Lower Upper

63 100

98 5.8 3.1 9.3

100 3.6 1.8 5.3



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

80000

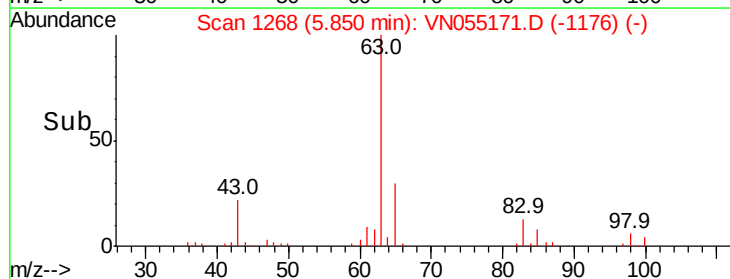
60000

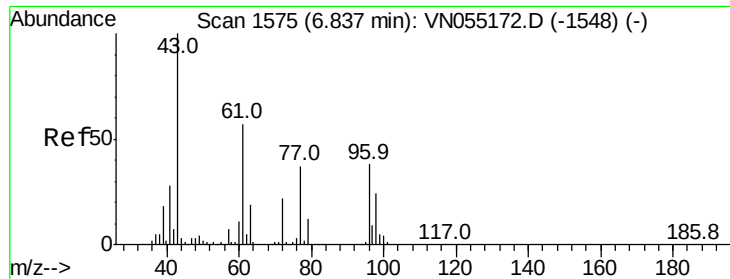
40000

20000

0

Time-->





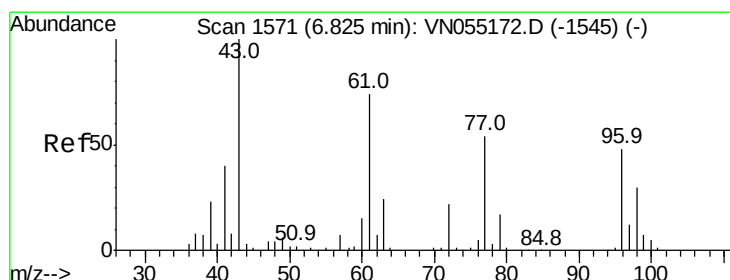
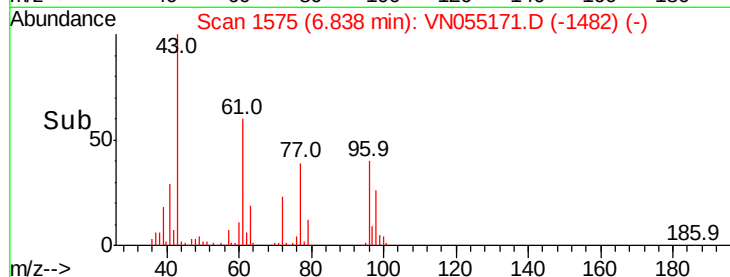
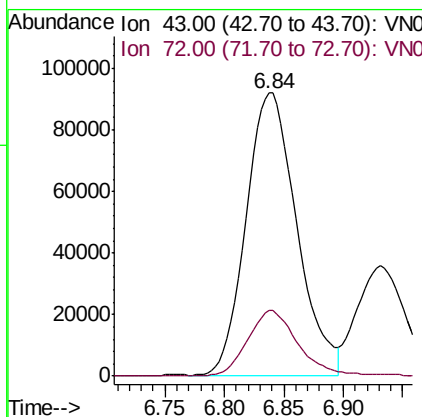
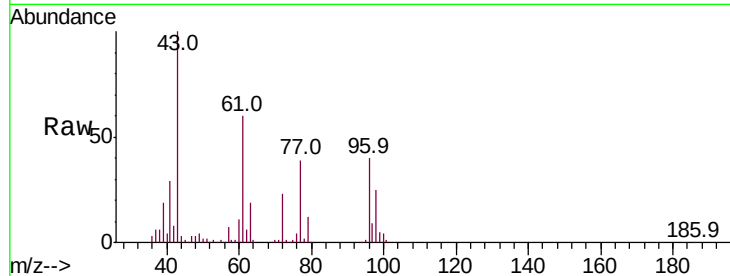
#25
 2-Butanone
 Concen: 103.557 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 270818
 Ion Ratio Lower Upper
 43 100
 72 23.2 17.8 26.8

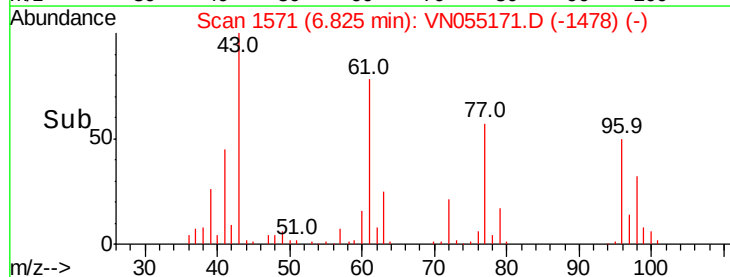
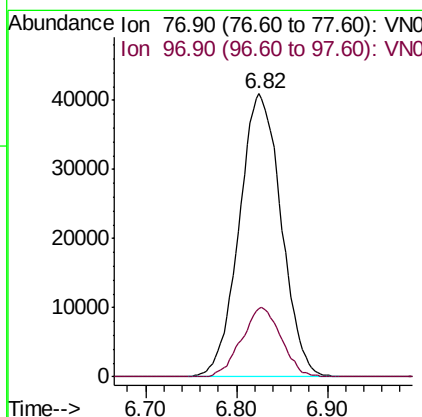
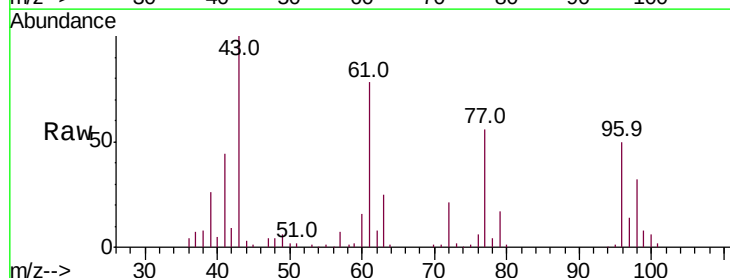
Manual Integrations
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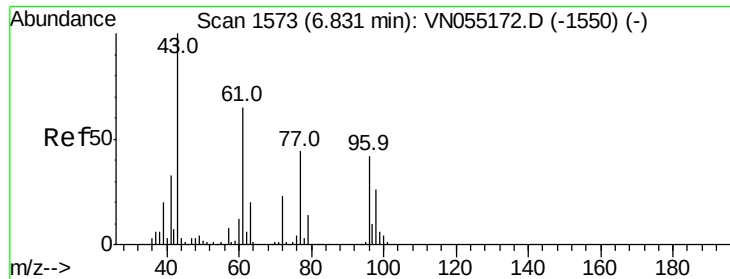
MMDadoda
 4/23/2019 1:46:34 PM



#26
 2,2-Dichloropropane
 Concen: 19.654 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion: 77 Resp: 131298
 Ion Ratio Lower Upper
 77 100
 97 23.1 11.3 33.8





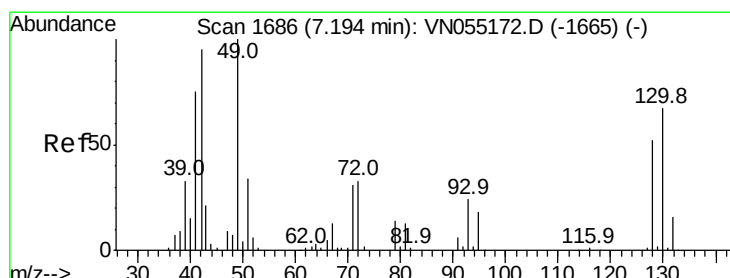
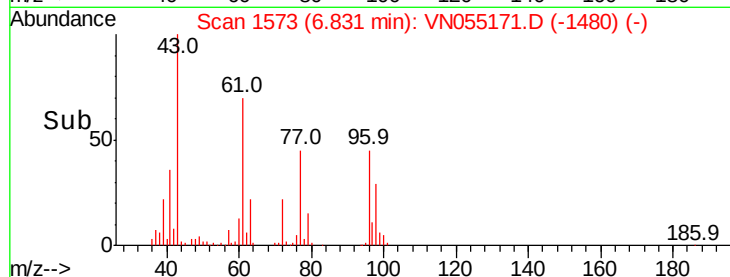
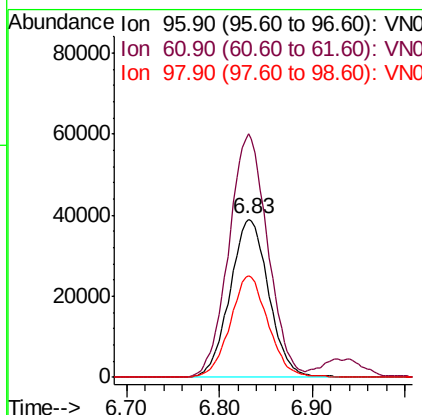
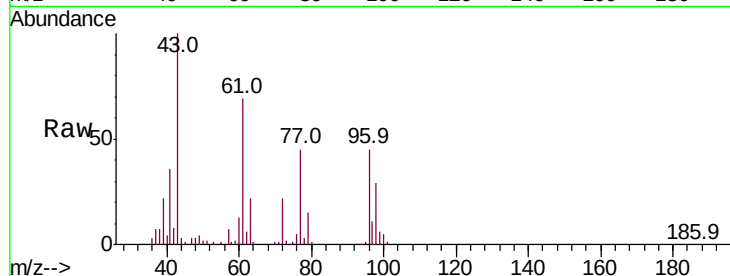
#27
 cis-1,2-Dichloroethene
 Concen: 20.063 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	154.6	0.0	310.8	
98	63.1	0.0	127.4	

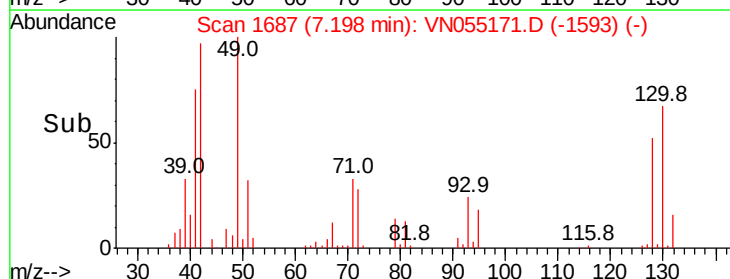
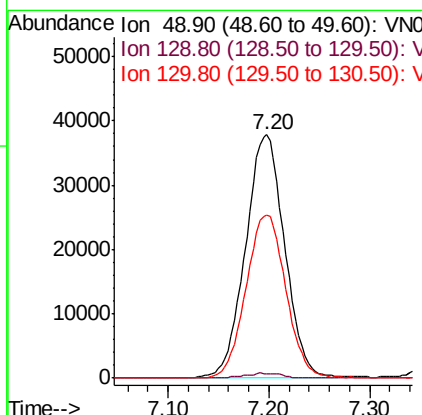
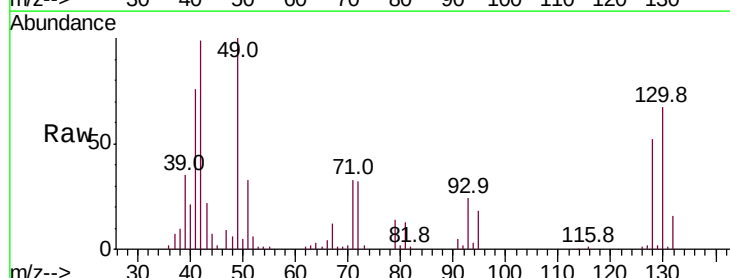
Manual Integrations
 APPROVED

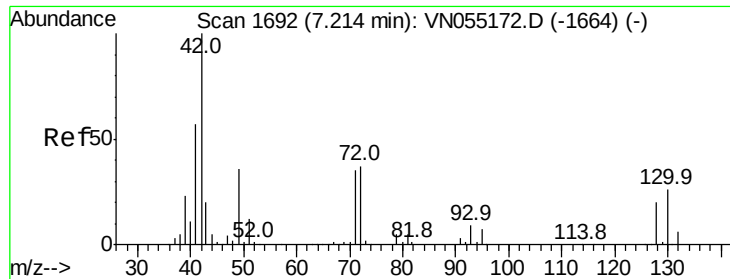
MMDadoda
 4/23/2019 1:46:34 PM



#28
 Bromochloromethane
 Concen: 20.265 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.0	0.0	3.8	
130	67.9	53.4	80.2	





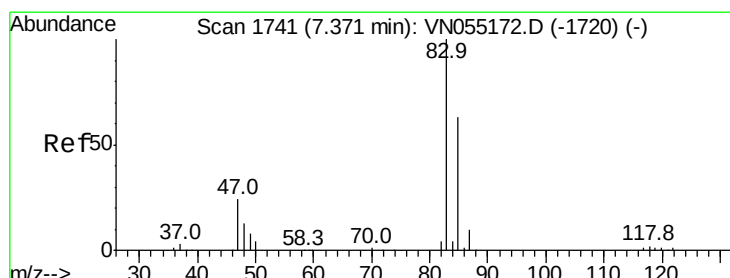
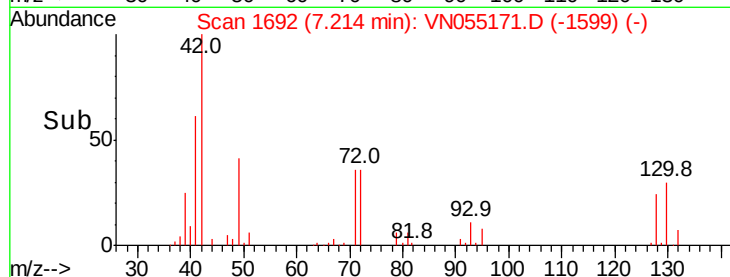
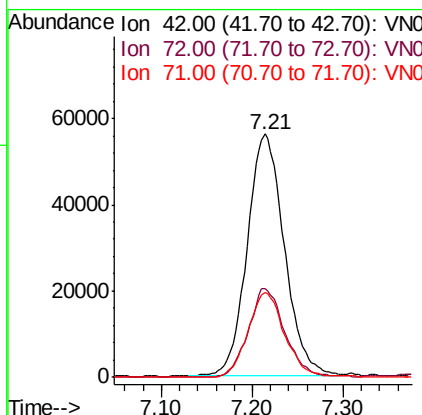
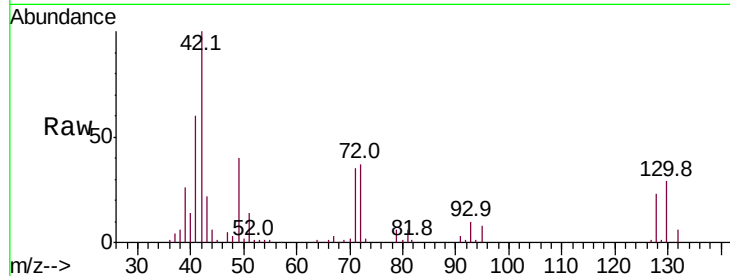
#29
Tetrahydrofuran
Concen: 96.832 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.1	29.4	44.2
71	34.5	27.8	41.8

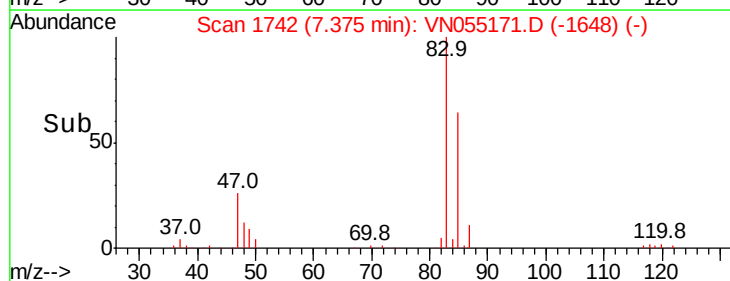
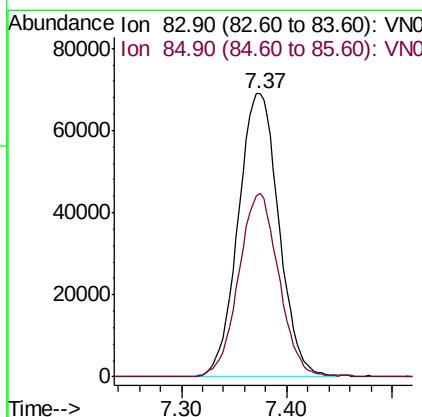
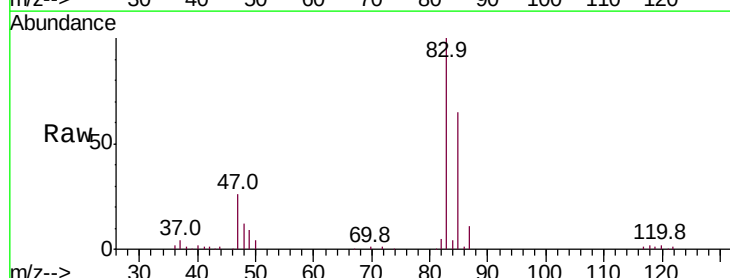
Manual Integrations
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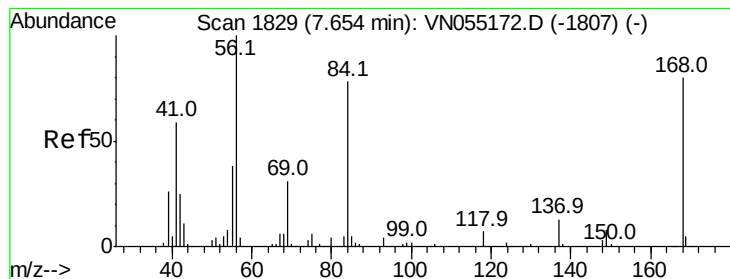
MMDadoda
4/23/2019 1:46:34 PM



#30
Chloroform
Concen: 19.713 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.6	76.0





#31

Cyclohexane

Concen: 16.886 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

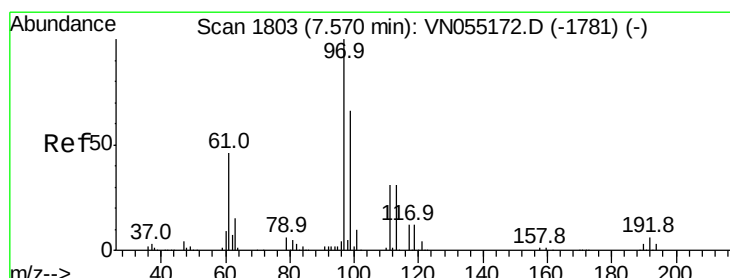
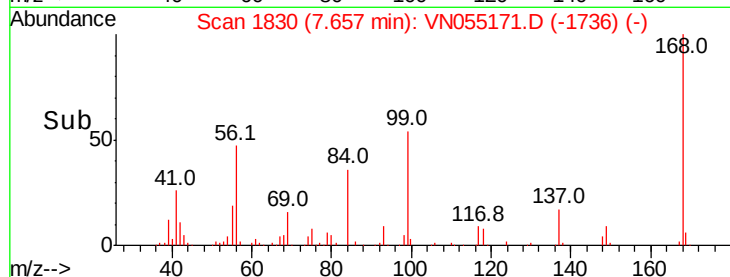
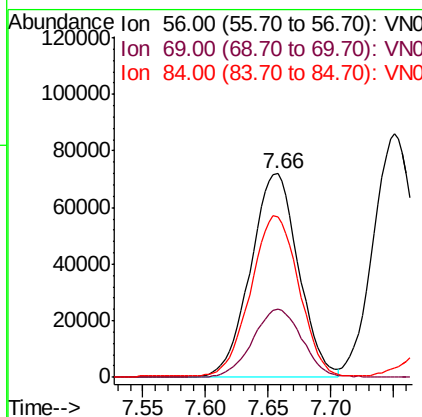
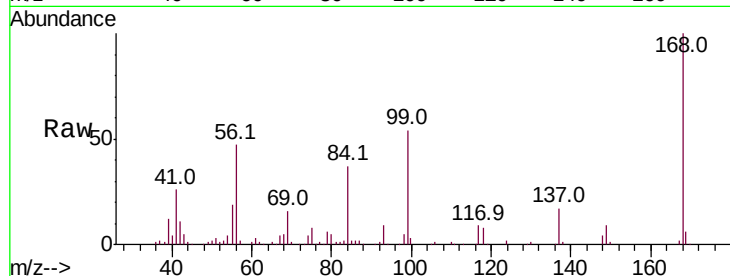
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	191407
Ion Ratio	Lower	Upper	
56	100		
69	33.6	24.6	37.0
84	78.1	61.4	92.2

Manual Integrations
APPROVED

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#32

1,1,1-Trichloroethane

Concen: 19.834 ug/l

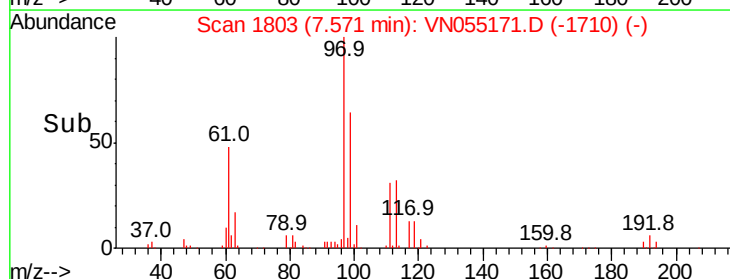
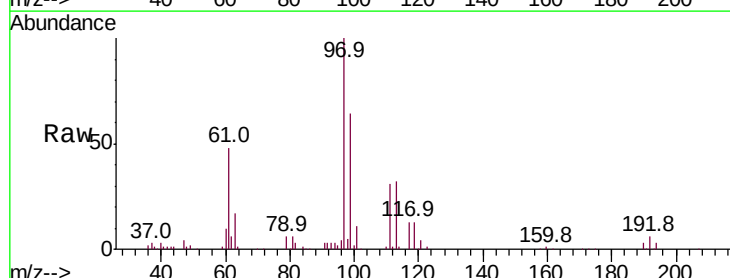
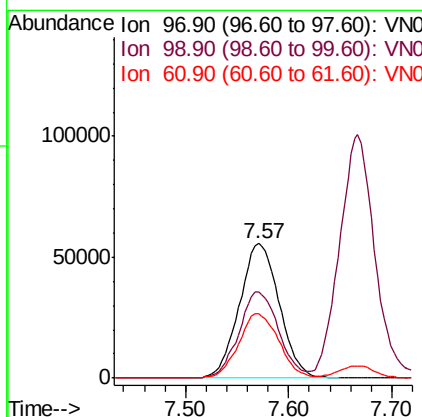
RT: 7.57 min Scan# 1803

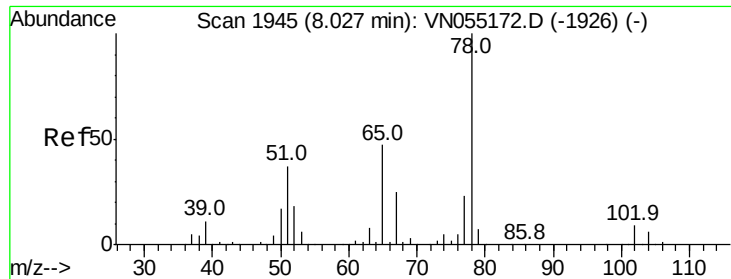
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	97	Resp:	149630
Ion Ratio	Lower	Upper	
97	100		
99	63.9	51.1	76.7
61	48.2	38.3	57.5





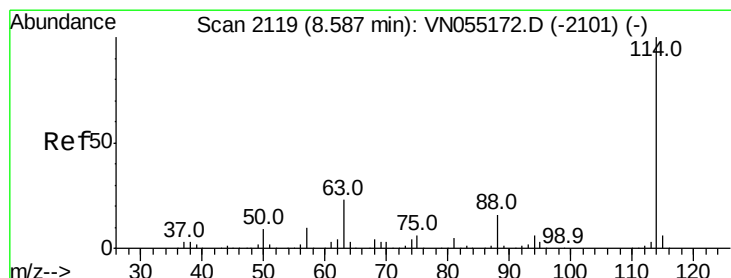
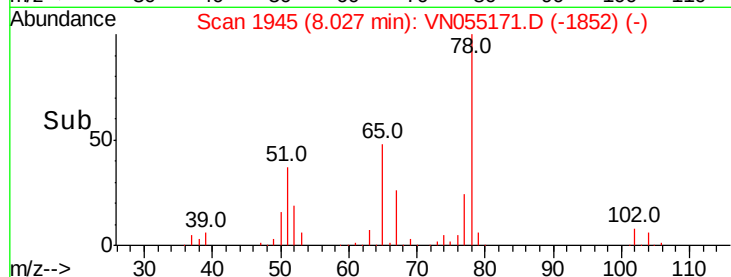
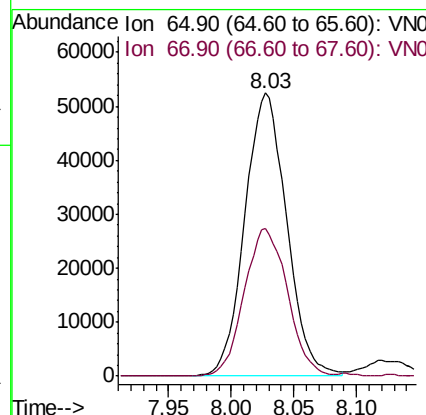
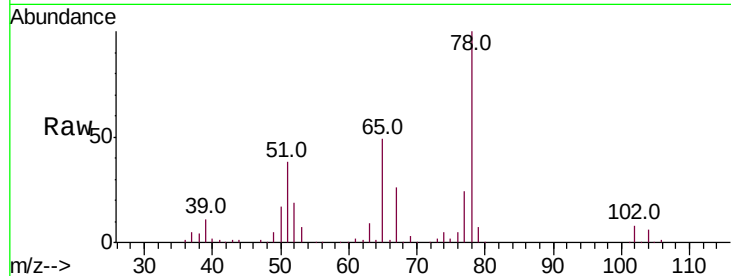
#33
 1,2-Dichloroethane-d4
 Concen: 18.339 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	121857		
67	53.8	0.0	108.6	

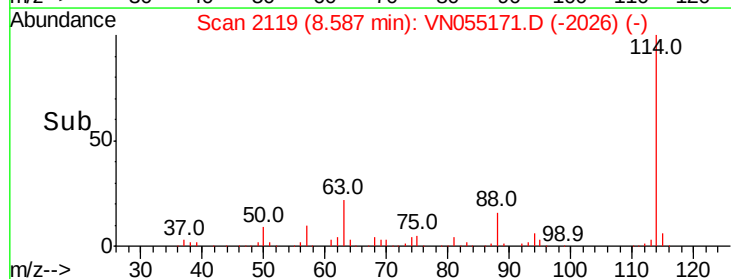
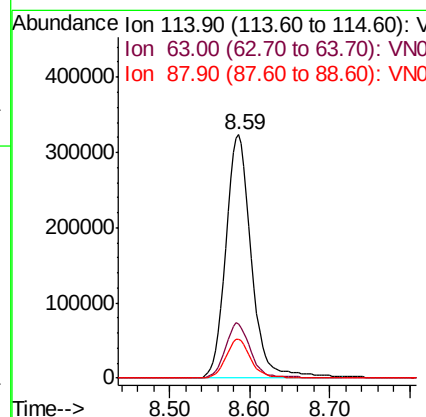
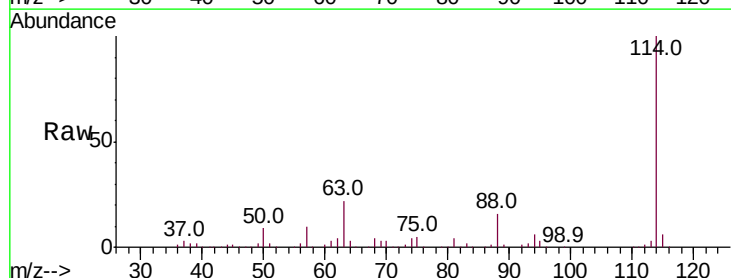
Manual Integrations
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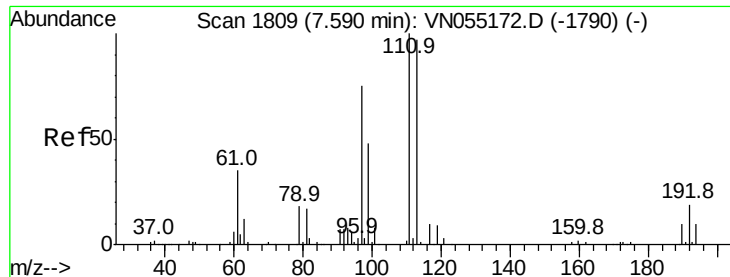
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	715216		
63	22.5	0.0	45.2	
88	16.1	0.0	32.8	





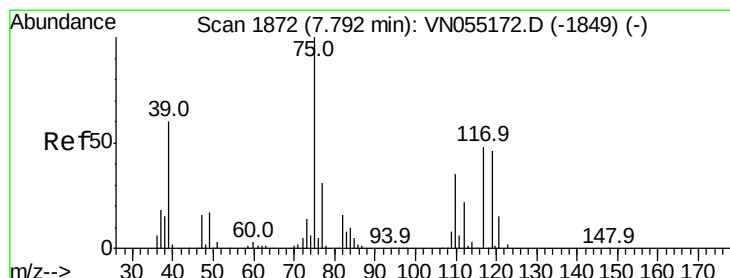
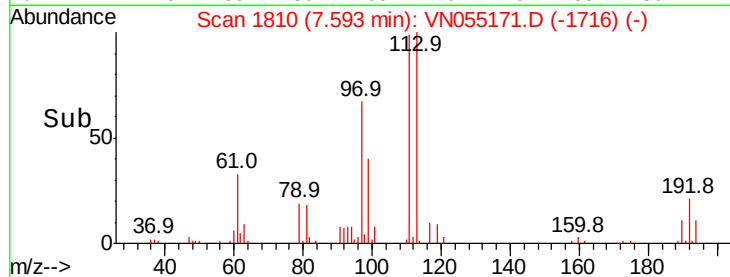
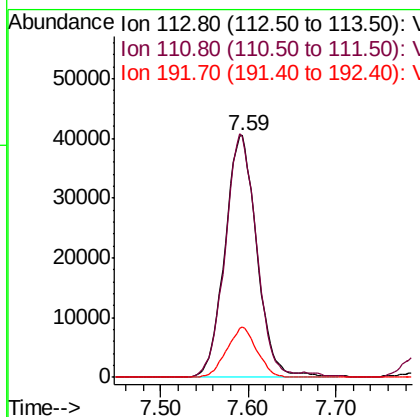
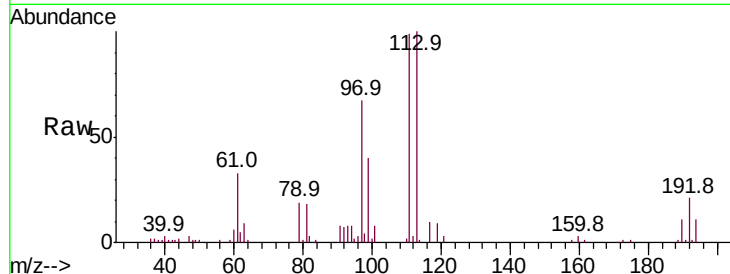
#35
Dibromofluoromethane
Concen: 20.017 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	97.9	81.0	121.4	
192	19.5	16.2	24.4	

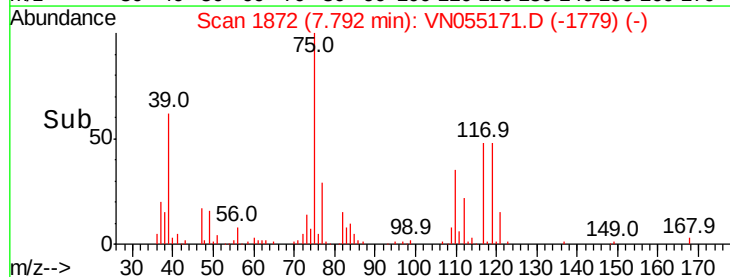
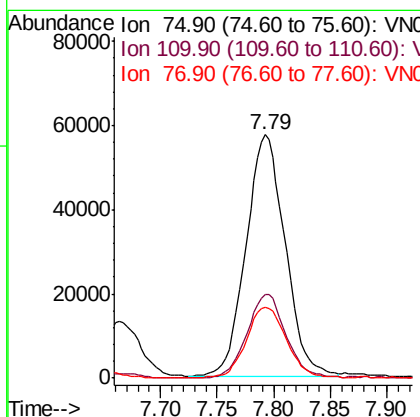
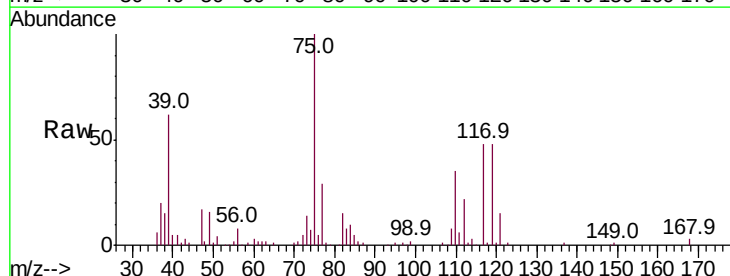
Manual Integrations
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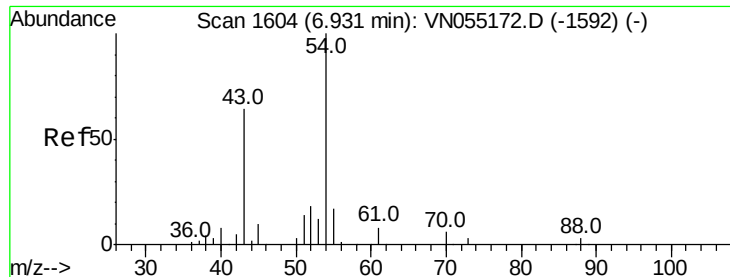
MMDadoda
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#36
1,1-Dichloropropene
Concen: 20.769 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.6	17.1	51.2	
77	30.4	24.6	36.8	





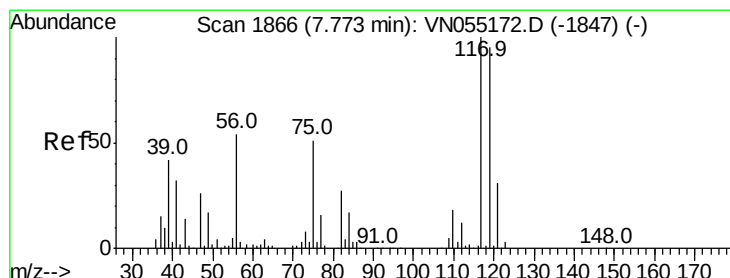
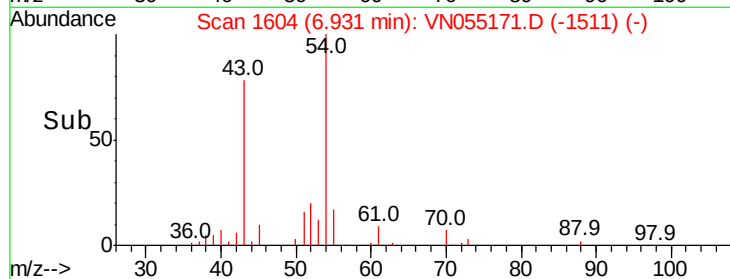
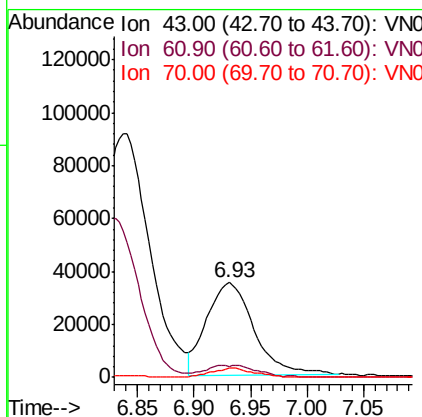
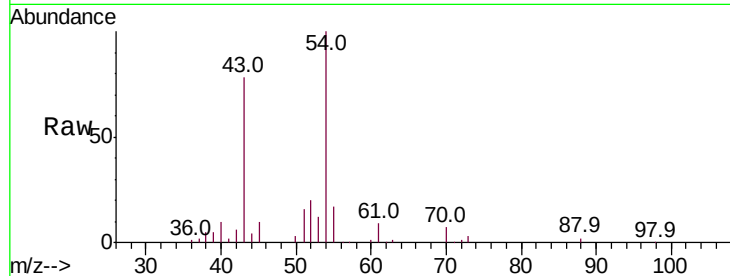
#37
Ethyl Acetate
Concen: 18.190 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.7	14.5#
70	9.4	6.9	10.3

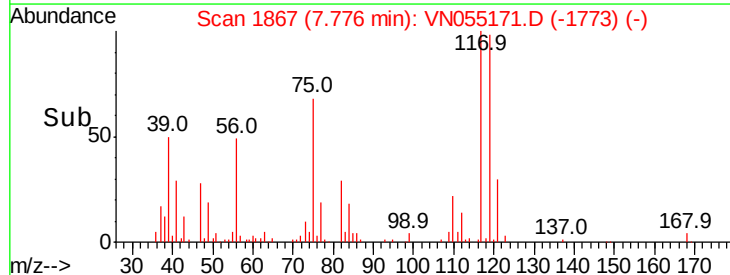
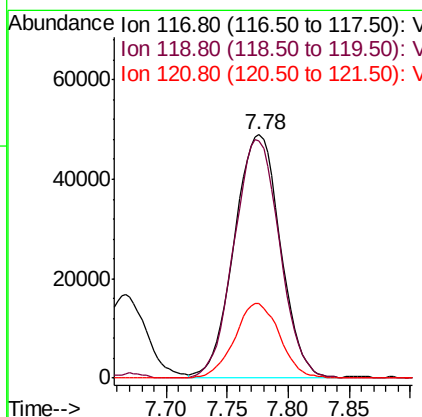
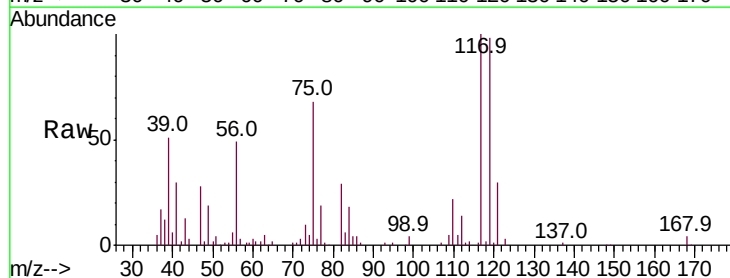
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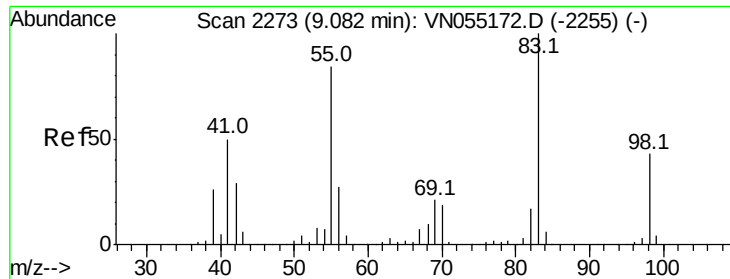
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#38
Carbon Tetrachloride
Concen: 19.234 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.0	114.0
121	30.6	24.6	36.8





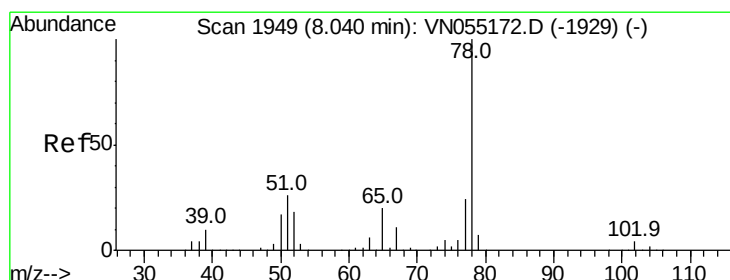
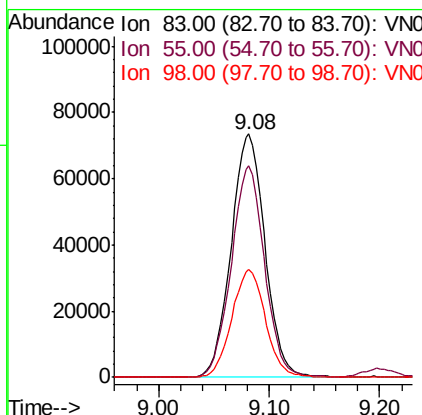
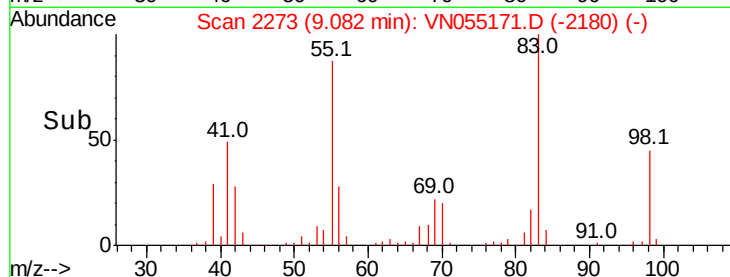
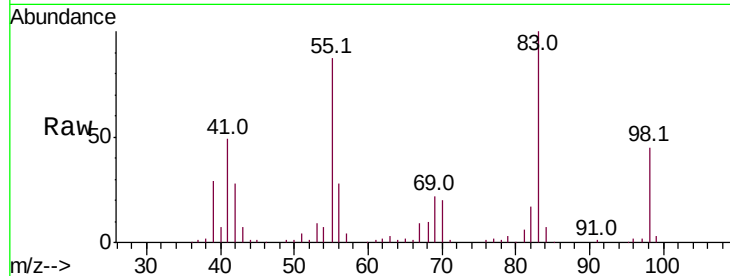
#39
Methylvlcyclohexane
Concen: 19.786 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.8	67.4	101.0
98	44.5	34.7	52.1

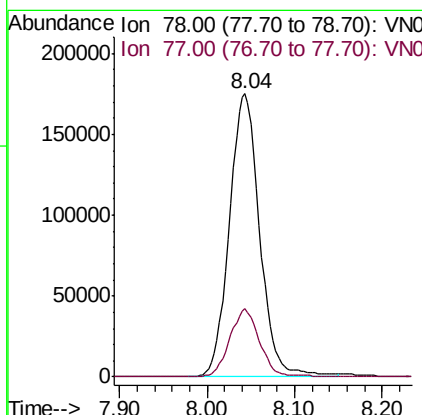
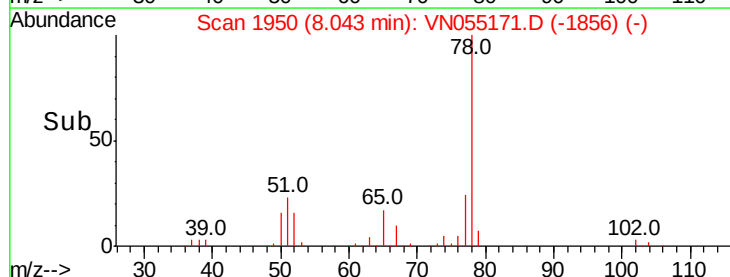
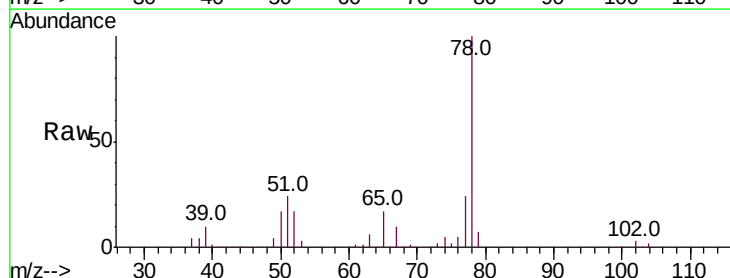
Manual Integrations
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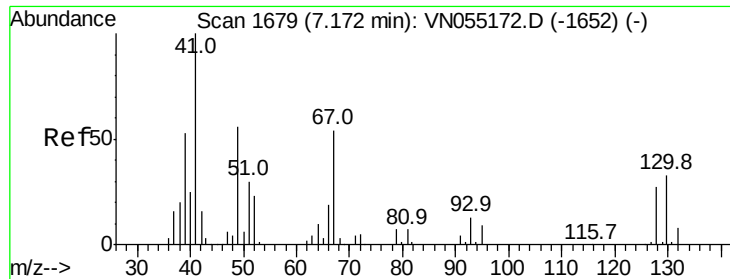
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#40
Benzene
Concen: 20.585 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.5	29.3





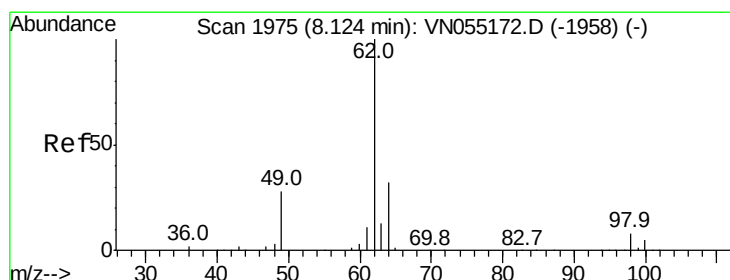
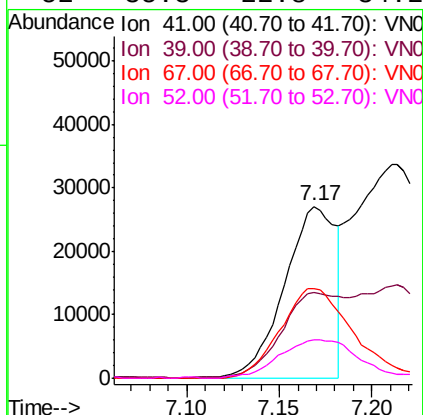
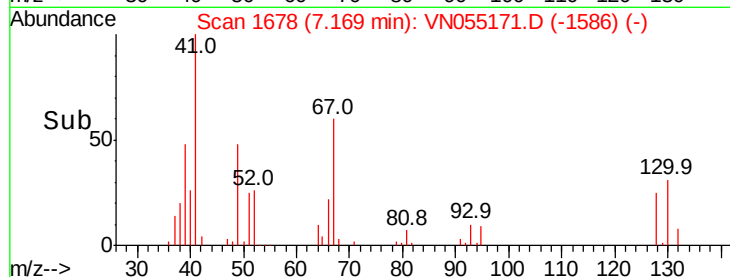
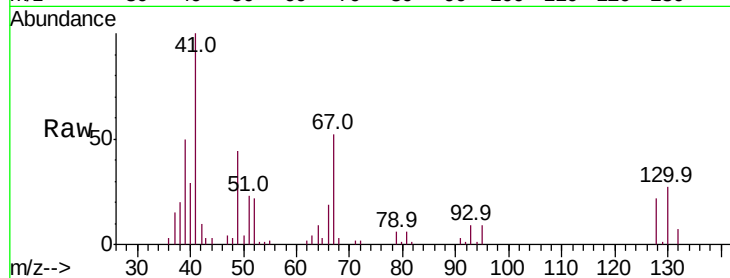
#41
Methacrylonitrile
Concen: 19.106 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleID :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.5	45.4	68.0	
67	75.2	54.6	81.8	
52	35.3	22.8	34.2	

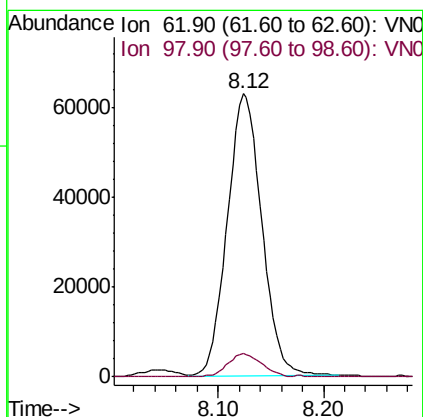
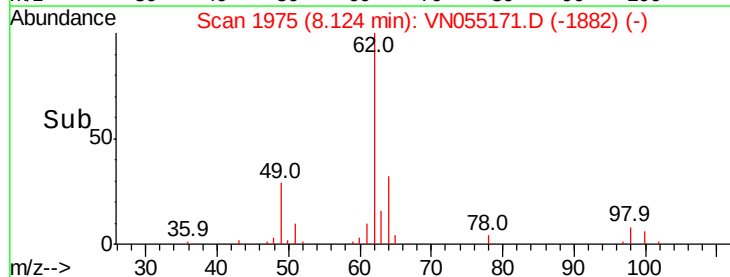
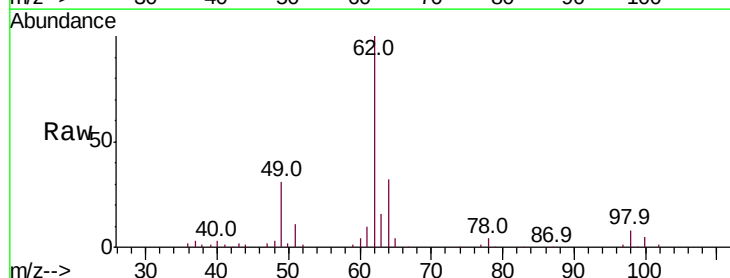
Manual Integrations
APPROVED

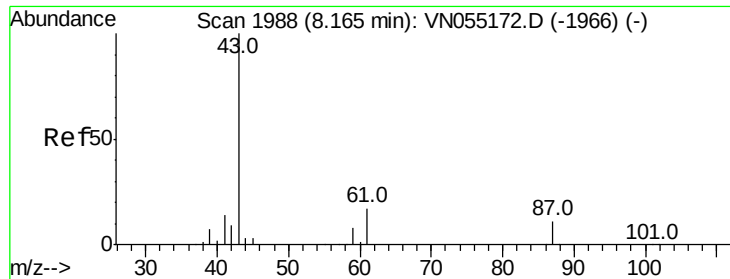
MMDadoda
4/23/2019 1:46:34 PM



#42
1,2-Dichloroethane
Concen: 19.917 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.2	0.0	17.0	





#43

Isopropyl Acetate

Concen: 20.048 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

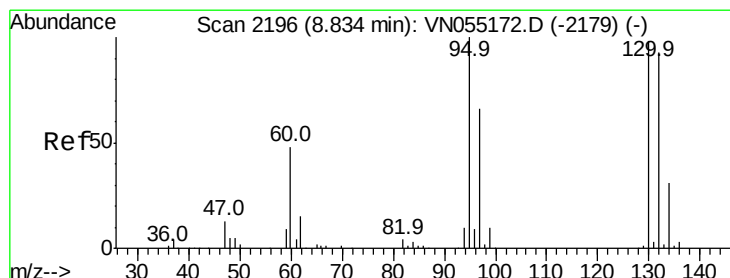
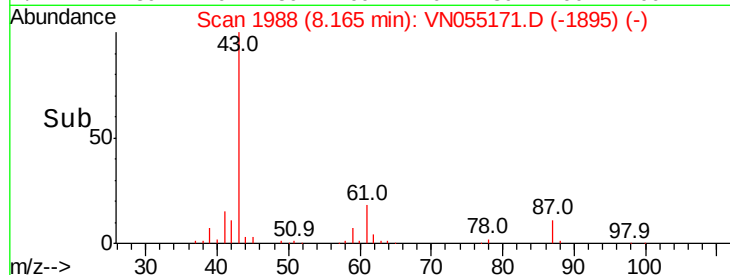
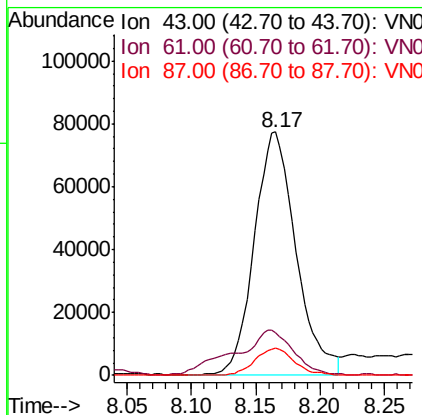
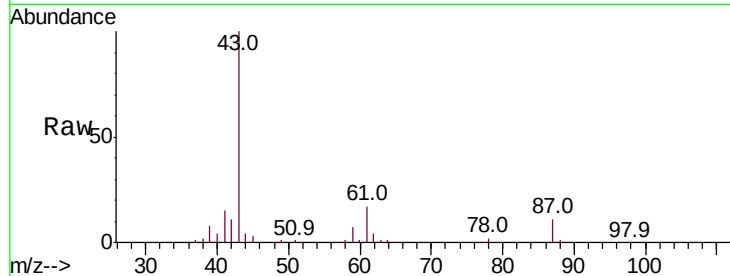
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	173923
Ion	Ratio	Lower	Upper
43	100		
61	16.3	20.6	30.8#
87	10.7	8.8	13.2

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4/23/2019 1:46:34 PM



#44

Trichloroethene

Concen: 20.053 ug/l

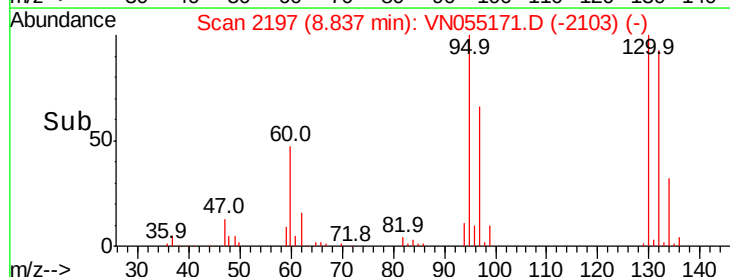
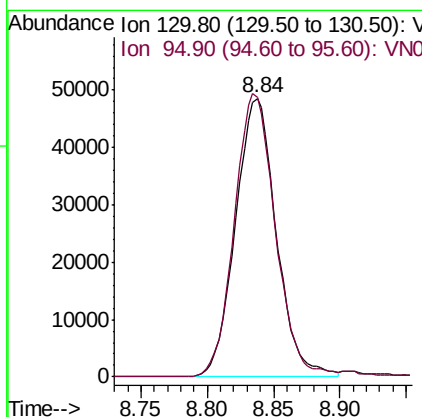
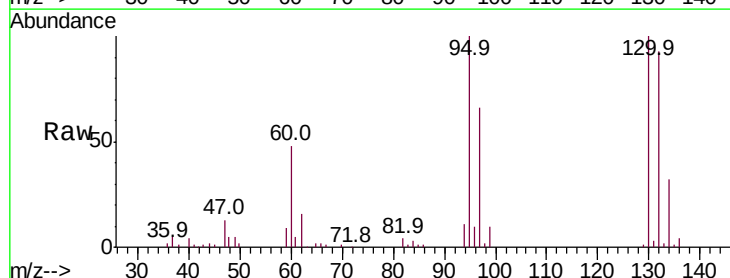
RT: 8.84 min Scan# 2197

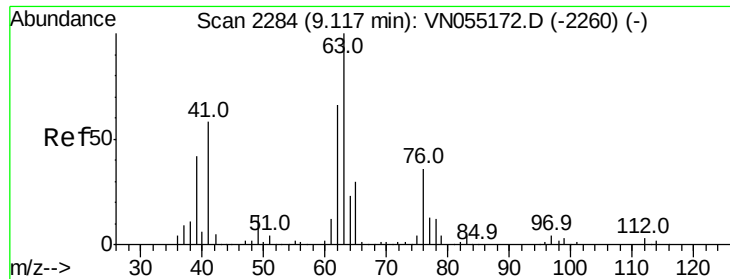
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	130	Resp:	103864
Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	203.6





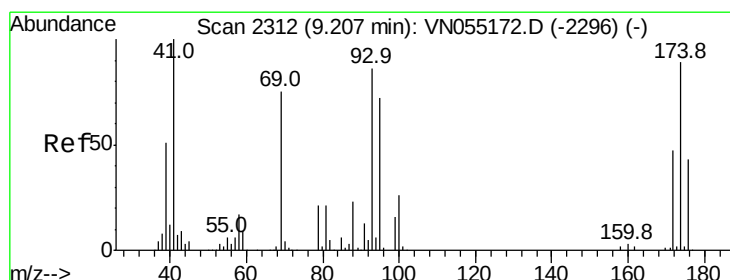
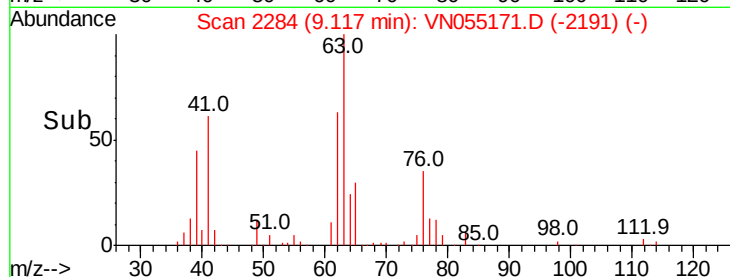
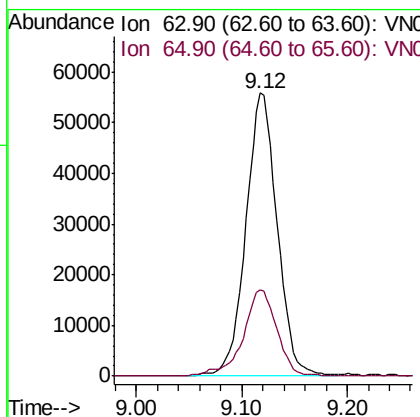
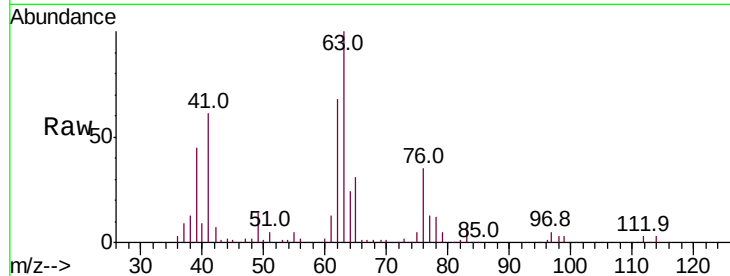
#45
 1,2-Dichloropropane
 Concen: 20.014 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.8	35.6

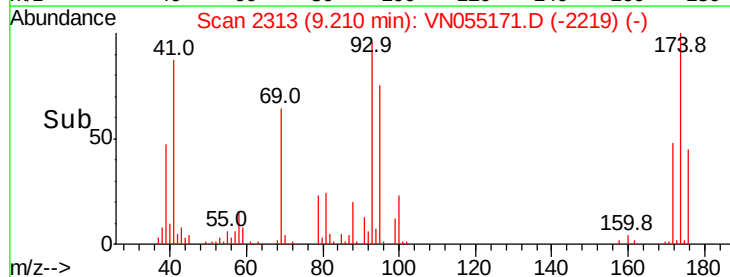
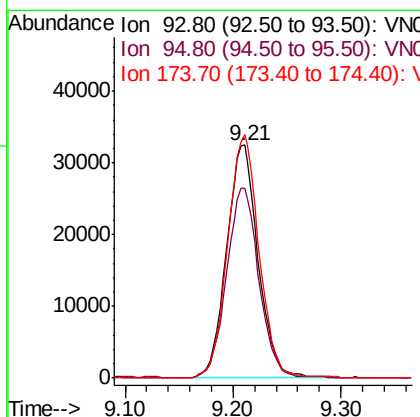
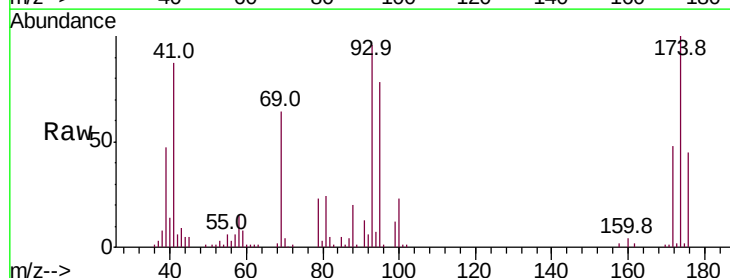
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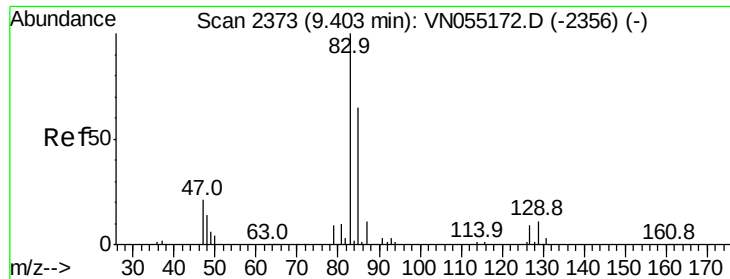
MMDadoda
 4/23/2019 1:46:34 PM



#46
 Dibromomethane
 Concen: 20.013 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.3	67.6	101.4
174	103.5	83.4	125.2





#47

Bromodichloromethane

Concen: 20.510 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

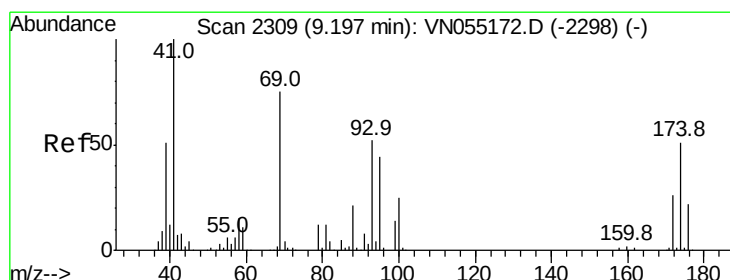
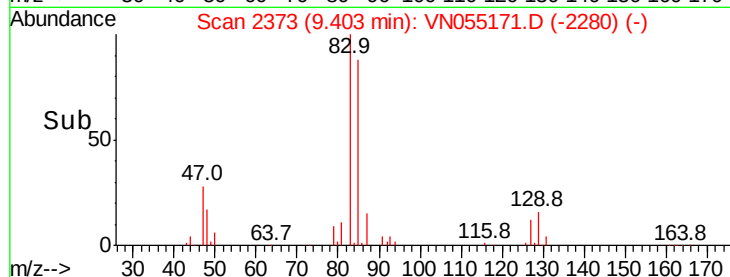
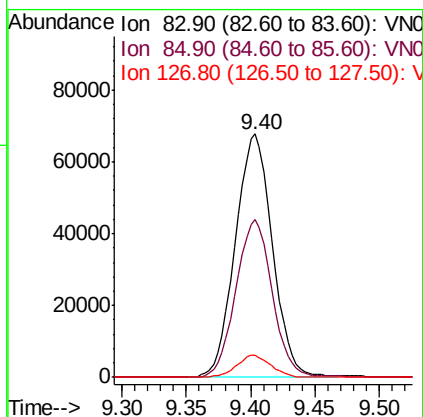
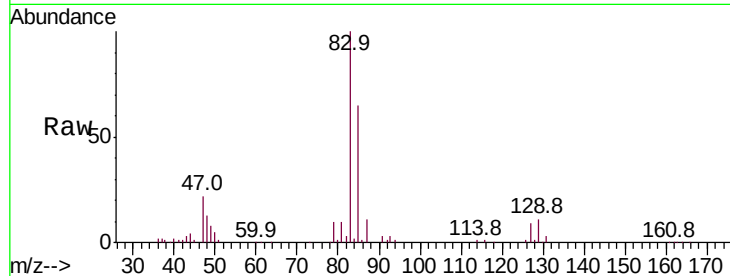
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	135955
Ion Ratio	Lower	Upper	
83	100		
85	64.6	52.1	78.1
127	9.0	6.9	10.3

Manual Integrations
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MMDadoda
4/23/2019 1:46:34 PM



#48

Methyl methacrylate

Concen: 18.504 ug/l

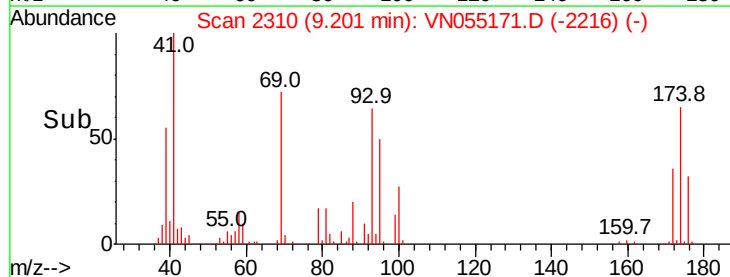
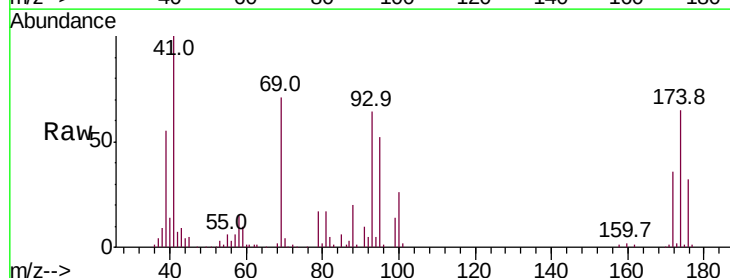
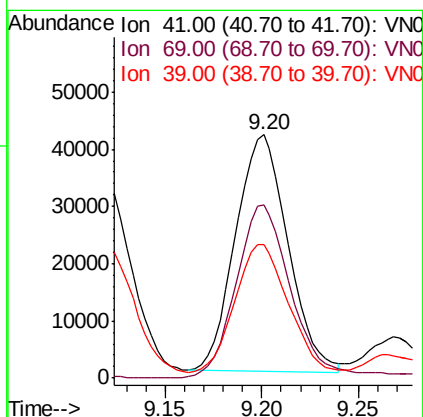
RT: 9.20 min Scan# 2310

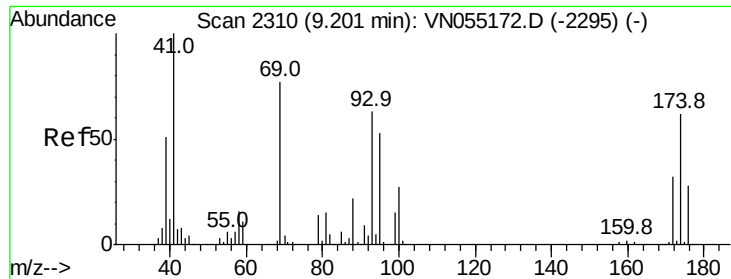
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	41	Resp:	77868
Ion Ratio	Lower	Upper	
41	100		
69	76.5	63.6	95.4
39	59.3	43.8	65.8





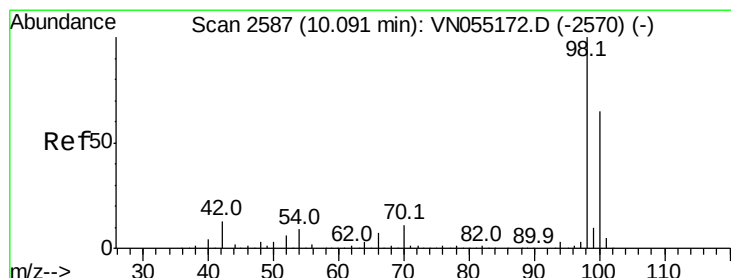
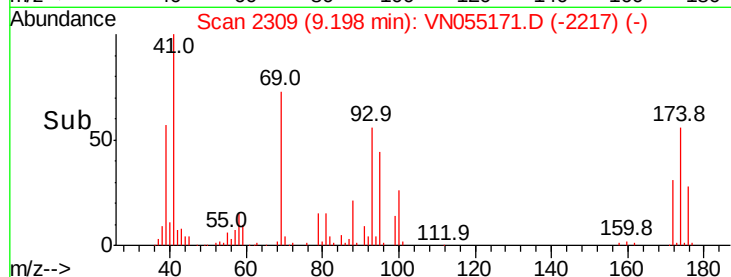
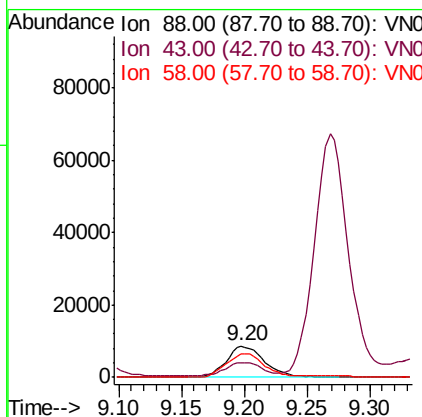
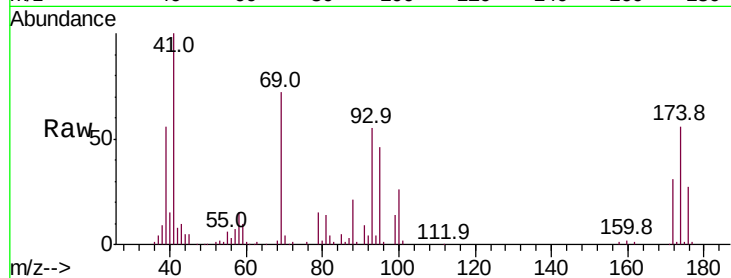
#49
1,4-Dioxane
Concen: 379.898 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.4	32.0	48.0
58	76.1	60.4	90.6

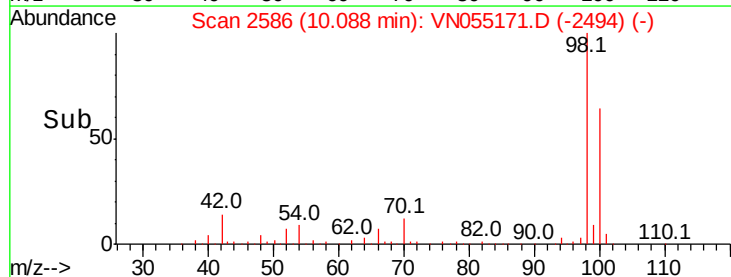
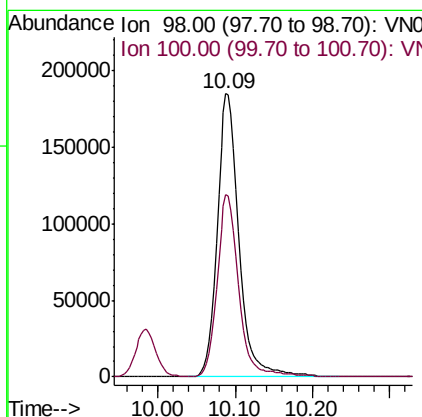
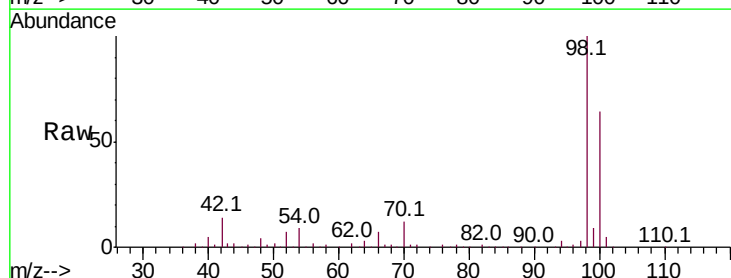
Manual Integrations
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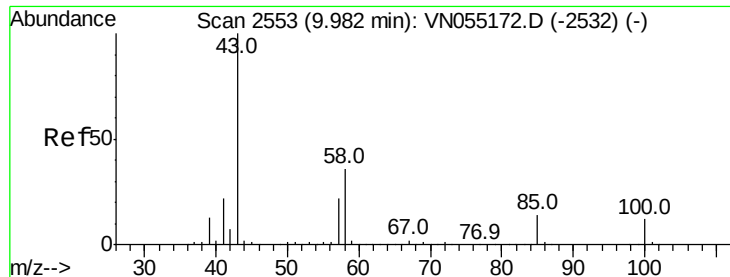
MMDadoda
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#50
Toluene-d8
Concen: 19.667 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.8	77.6





#51

4-Methyl-2-Pentanone

Concen: 96.692 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 482691

Ion Ratio Lower Upper

43 100

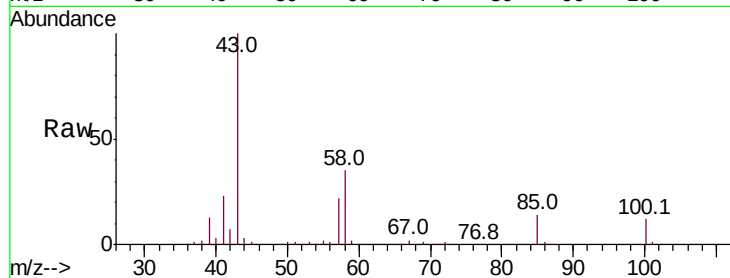
58 35.3 28.3 42.5

Manual Integrations

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MMDadoda

4/23/2019 1:46:34 PM



Abundance Ion 43.00 (42.70 to 43.70): VN055171.D (-2532) (-)

Ion 58.00 (57.70 to 58.70): VN055171.D (-2532) (-)

9.98

250000

200000

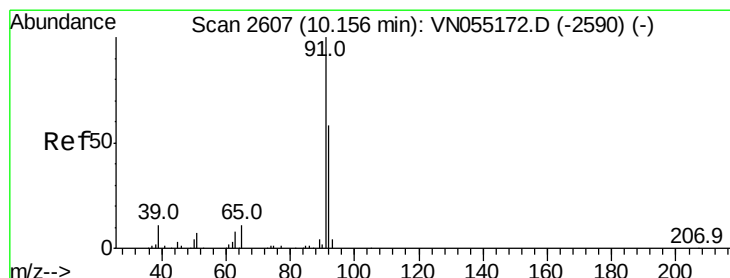
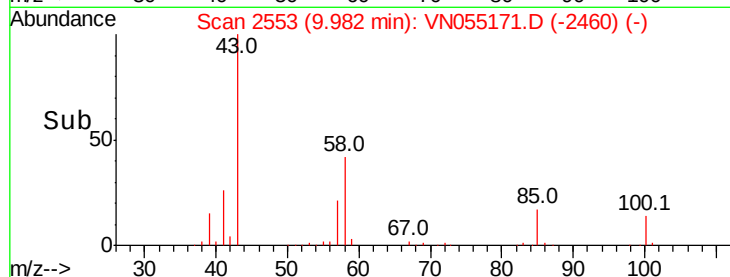
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.298 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055171.D

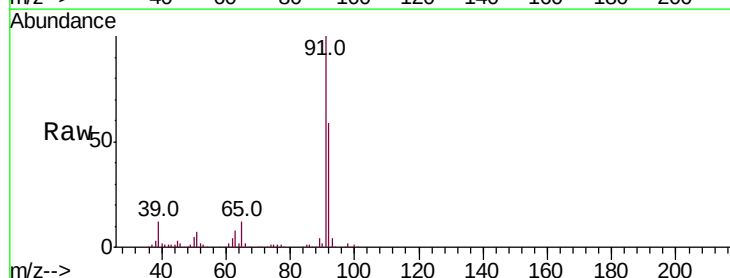
Acq: 22 Apr 2019 10:12

Tgt Ion: 92 Resp: 243838

Ion Ratio Lower Upper

92 100

91 173.5 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VN055171.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN055171.D (-2590) (-)

10.16

250000

200000

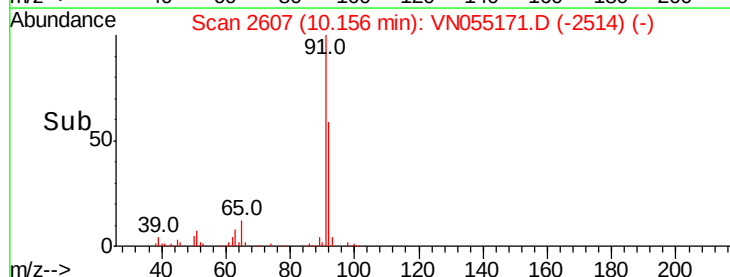
150000

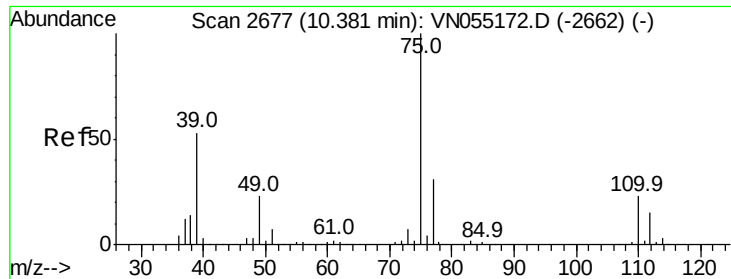
100000

50000

0

Time-->





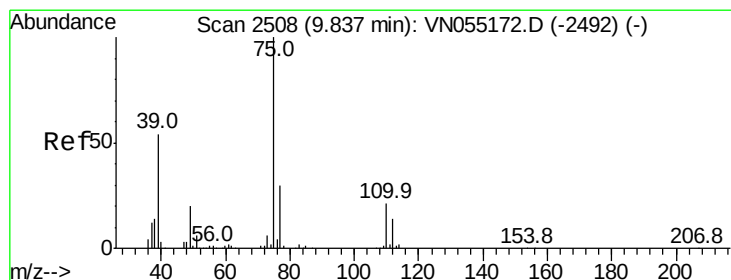
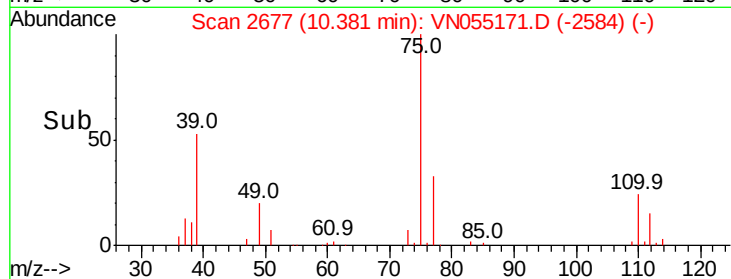
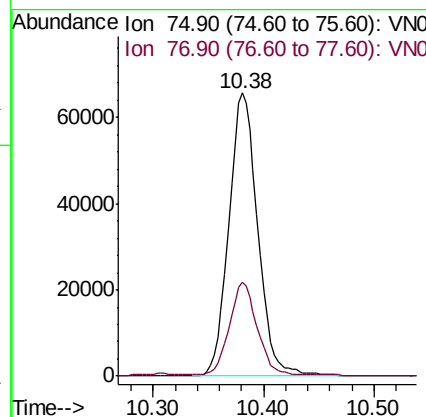
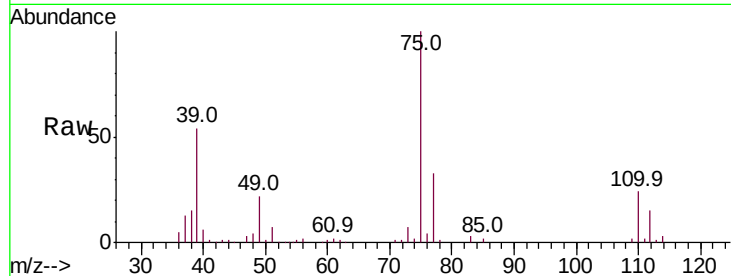
#53
 t-1,3-Dichloropropene
 Concen: 19.636 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 75 Resp: 119453
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.1 37.7

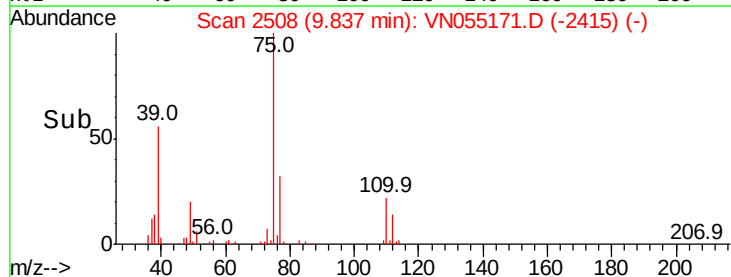
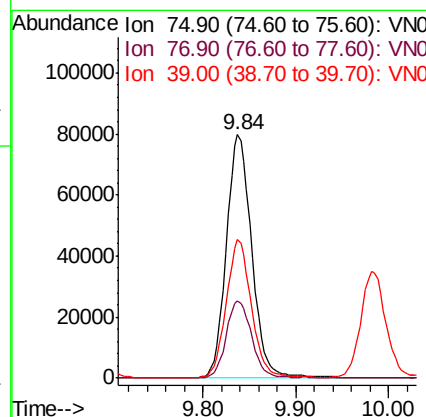
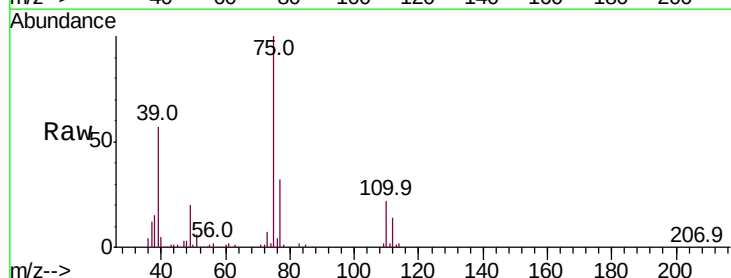
Manual Integrations
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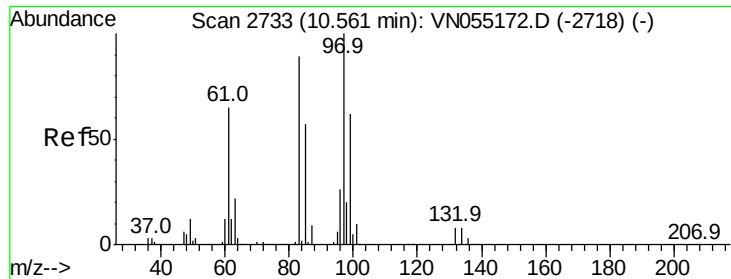
MMDadoda
 4/23/2019 1:46:34 PM



#54
 cis-1,3-Dichloropropene
 Concen: 20.084 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion: 75 Resp: 151617
 Ion Ratio Lower Upper
 75 100
 77 31.5 24.3 36.5
 39 56.5 43.0 64.4





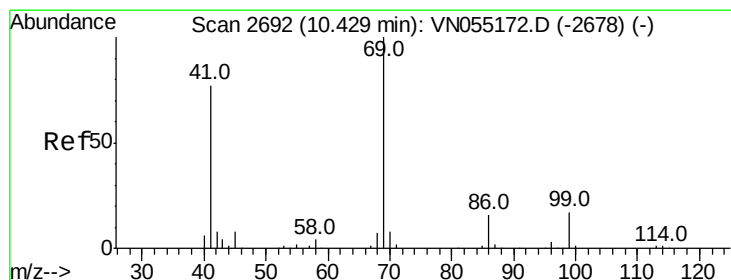
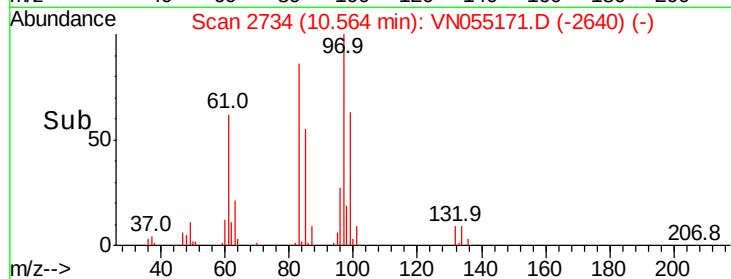
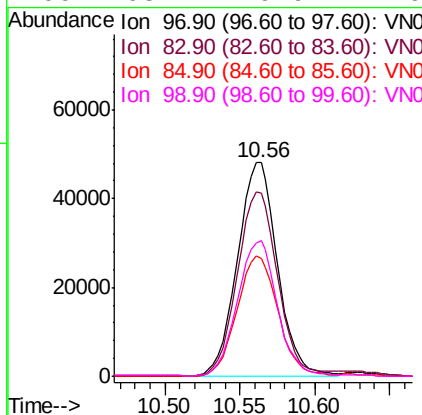
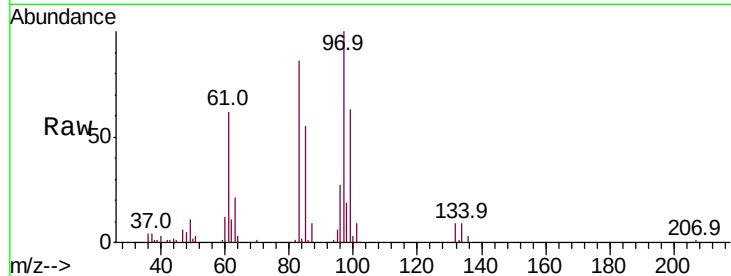
#55
 1,1,2-Trichloroethane
 Concen: 20.260 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	89732
Ion	Ratio	Lower	Upper
97	100		
83	85.8	71.5	107.3
85	55.4	45.8	68.6
99	63.4	49.9	74.9

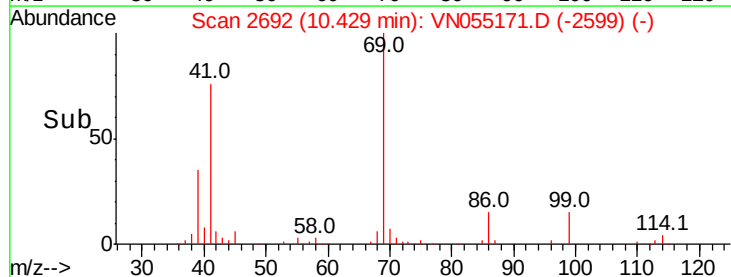
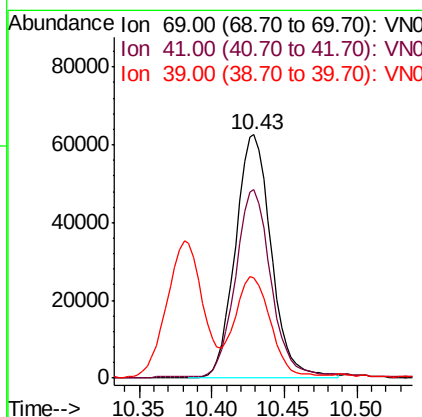
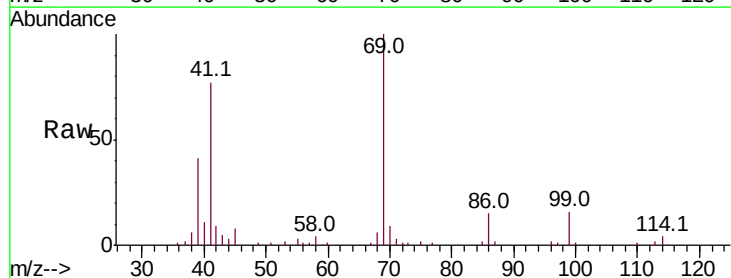
Manual Integrations
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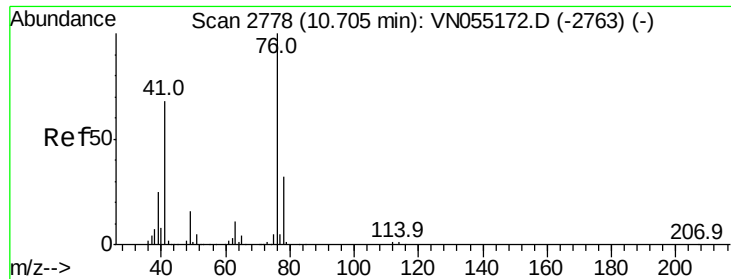
MMDadoda
 4/23/2019 1:46:34 PM



#56
 Ethyl methacrylate
 Concen: 19.586 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion:	69	Resp:	108059
Ion	Ratio	Lower	Upper
69	100		
41	75.5	60.6	90.8
39	39.3	31.7	47.5





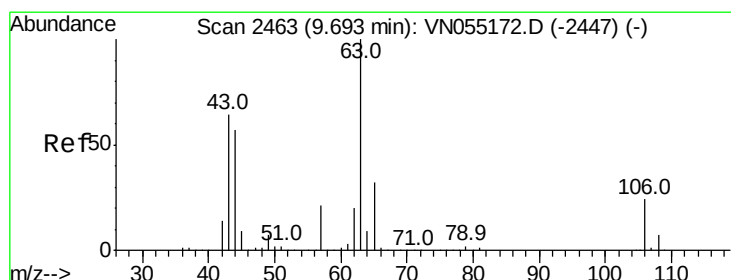
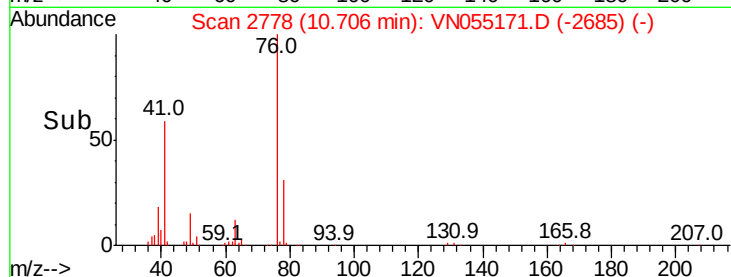
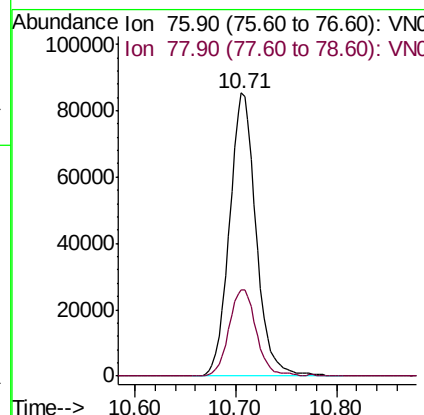
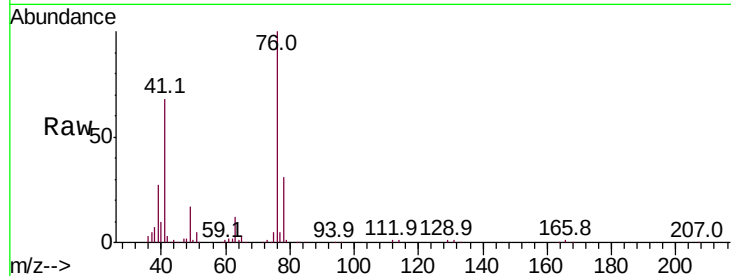
#57
1,3-Dichloropropane
Concen: 20.382 ug/l
RT: 10.71 min Scan# 2778
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 76 Resp: 157056
Ion Ratio Lower Upper
76 100
78 31.5 25.3 37.9

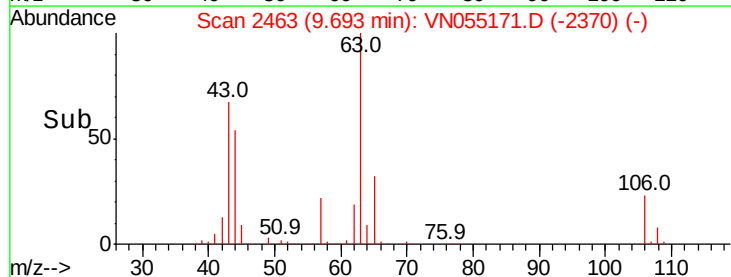
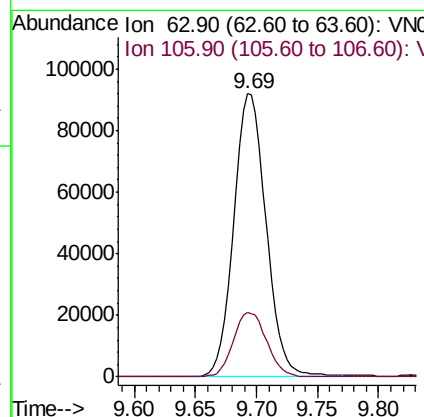
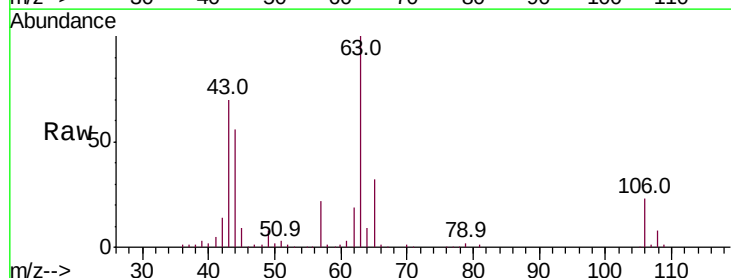
Manual Integrations
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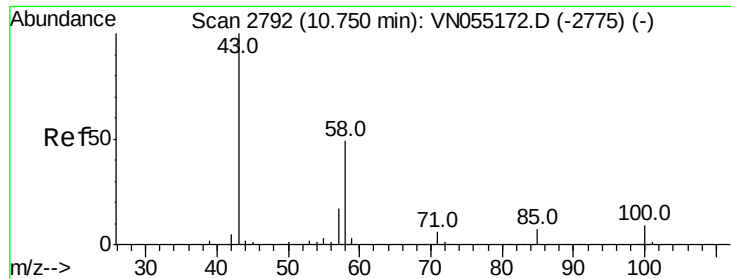
MMDadoda
4/23/2019 1:46:34 PM



#58
2-Chloroethyl Vinyl ether
Concen: 95.624 ug/l
RT: 9.69 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion: 63 Resp: 170098
Ion Ratio Lower Upper
63 100
106 23.5 19.4 29.0





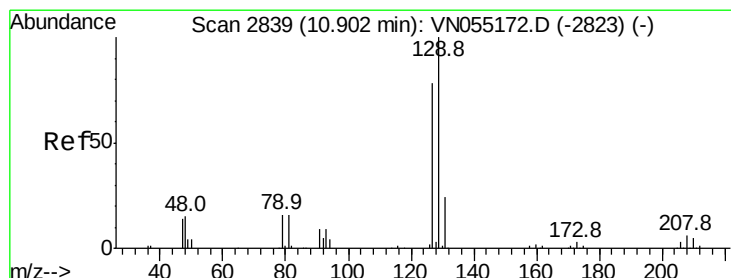
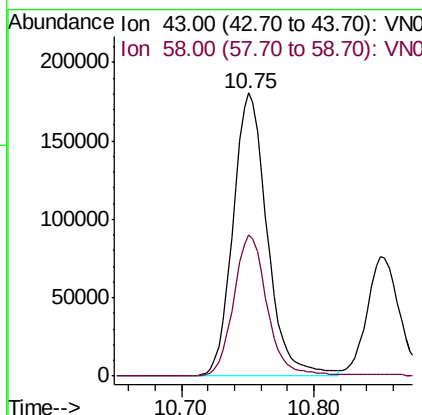
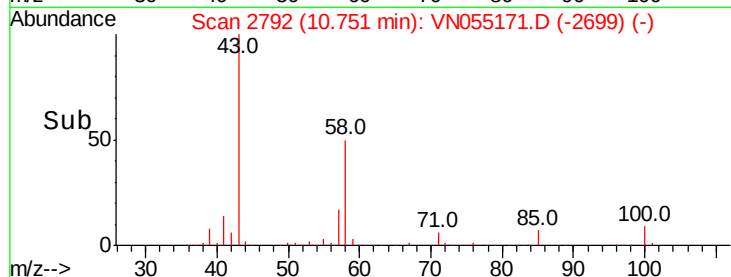
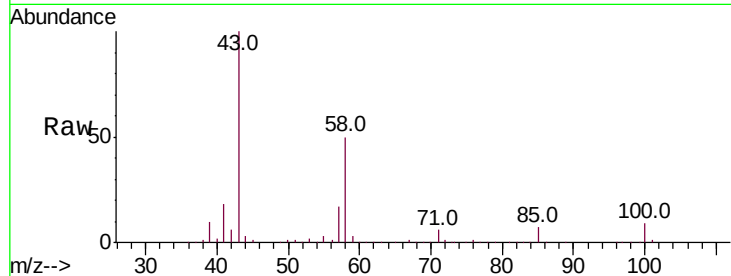
#59
2-Hexanone
Concen: 101.695 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	43	58	Ratio	100	49.2	Resp	320665	Lower	24.5	Upper	73.5
Ion	43	58	Ratio	100	49.2	Resp	320665	Lower	24.5	Upper	73.5

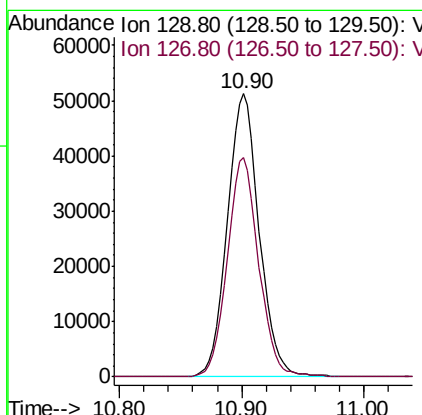
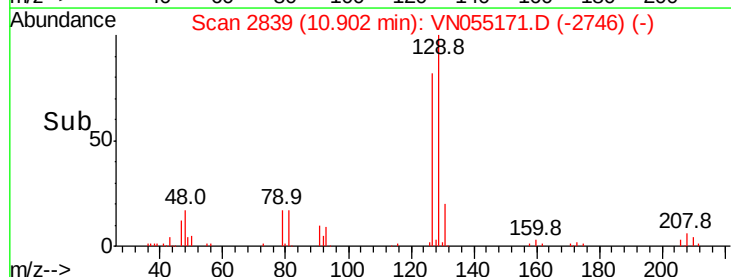
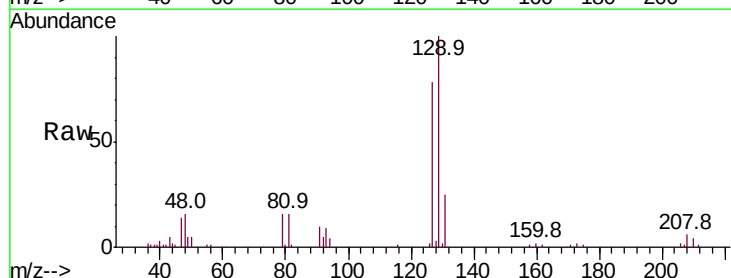
Manual Integrations
APPROVED

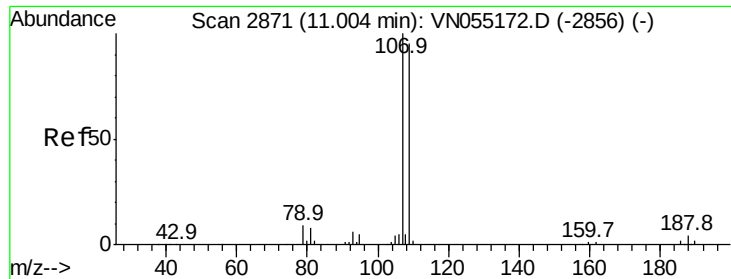
MMDadoda
4/23/2019 1:46:34 PM



#60
Dibromochloromethane
Concen: 20.446 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	129	127	Ratio	100	76.6	Resp	93273	Lower	39.0	Upper	117.0
Ion	129	127	Ratio	100	76.6	Resp	93273	Lower	39.0	Upper	117.0





#61

1,2-Dibromoethane

Concen: 19.891 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 82826

Ion Ratio Lower Upper

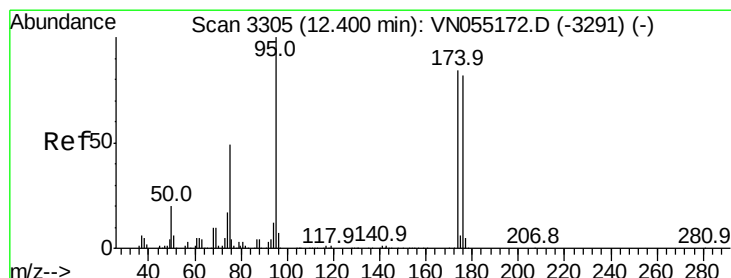
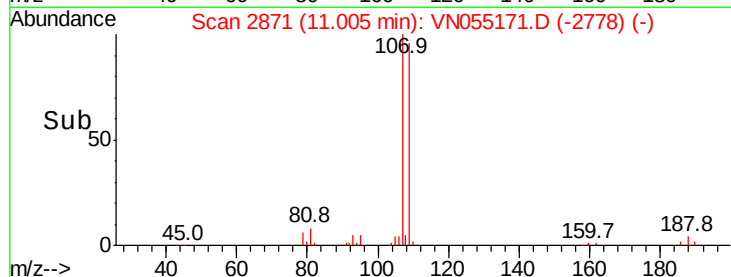
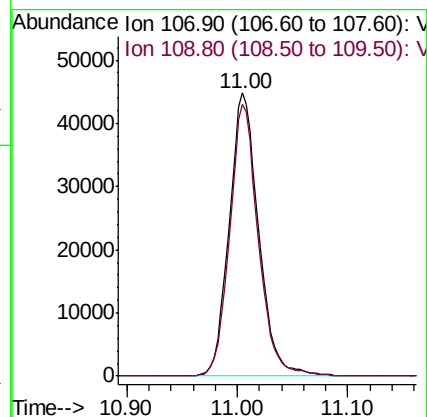
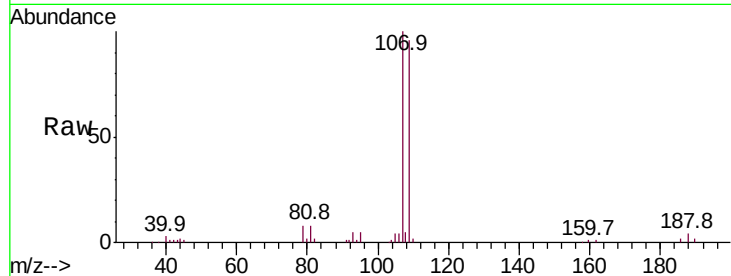
107 100

109 93.3 75.8 113.6

Manual Integrations
APPROVED

MMDadoda

4/23/2019 1:46:34 PM



#62

4-Bromofluorobenzene

Concen: 19.361 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

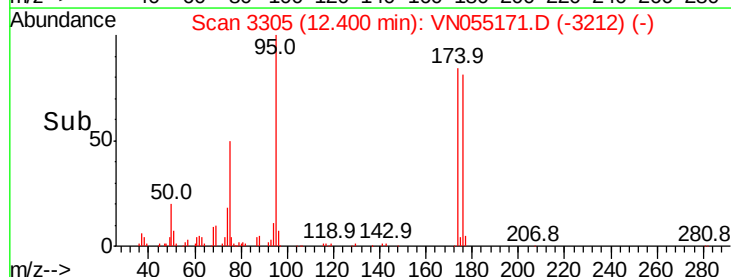
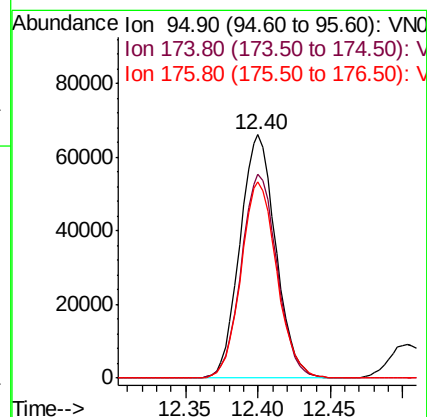
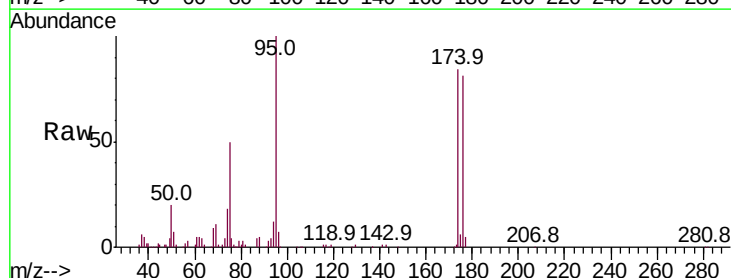
Tgt Ion: 95 Resp: 113354

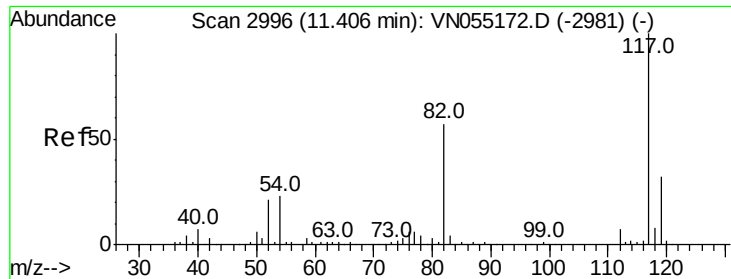
Ion Ratio Lower Upper

95 100

174 84.0 0.0 168.4

176 80.7 0.0 164.0





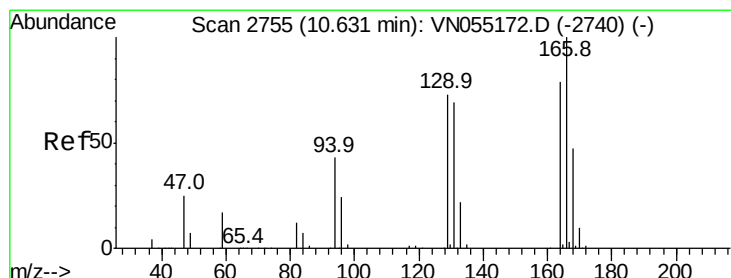
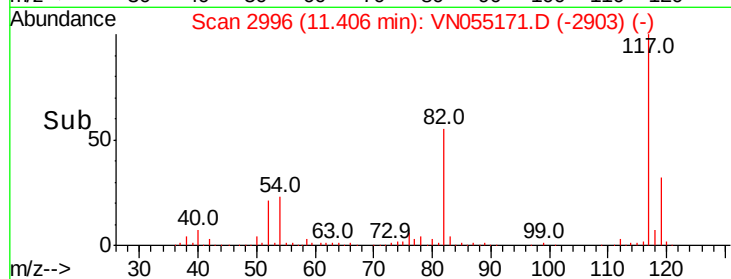
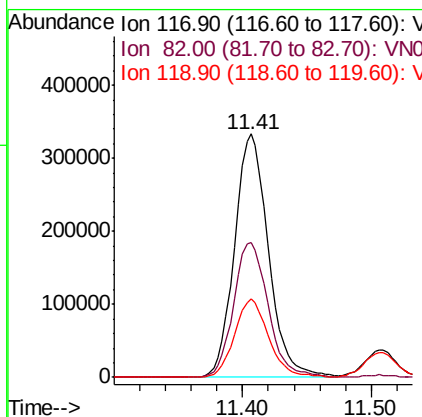
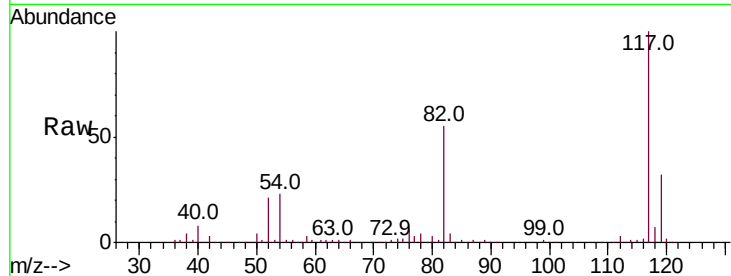
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	45.7	68.5
119	32.0	25.4	38.2

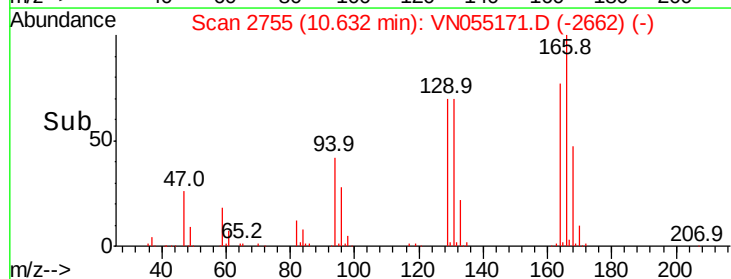
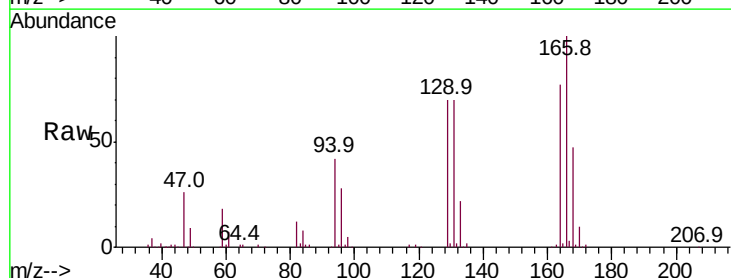
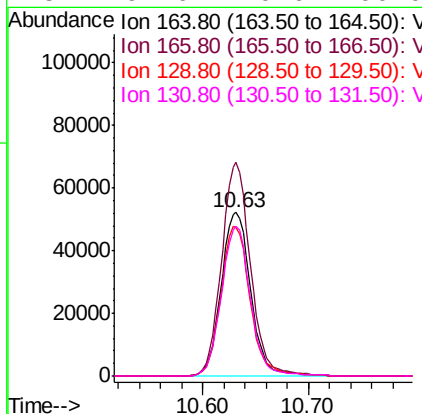
Manual Integrations
APPROVED

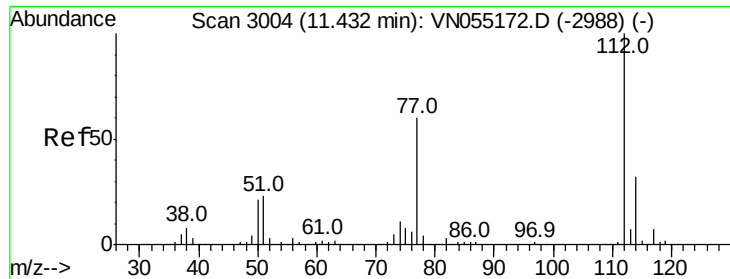
MMDadoda
4/23/2019 1:46:34 PM



#64
Tetrachloroethene
Concen: 20.287 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.4	101.9	152.9
129	91.0	74.1	111.1
131	91.6	70.6	106.0





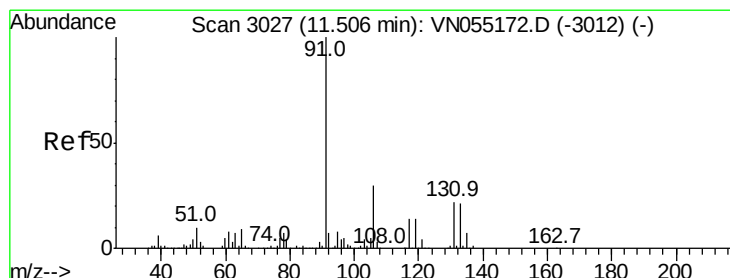
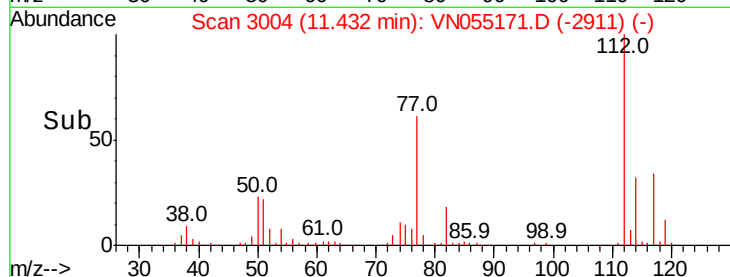
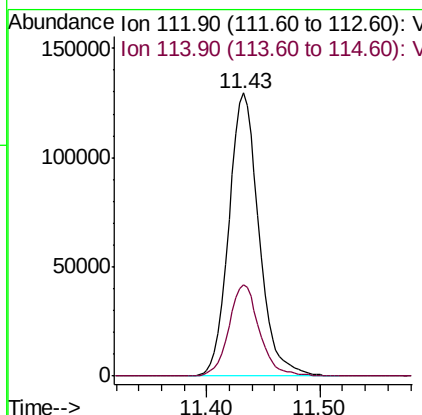
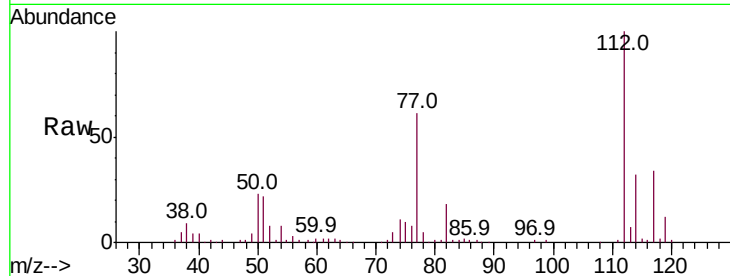
#65
Chlorobenzene
Concen: 19.234 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:112 Resp: 239503
Ion Ratio Lower Upper
112 100
114 32.4 25.4 38.0

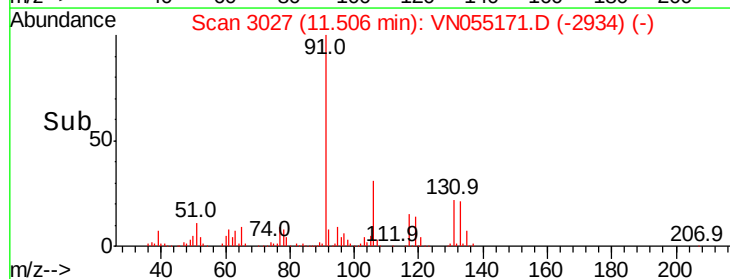
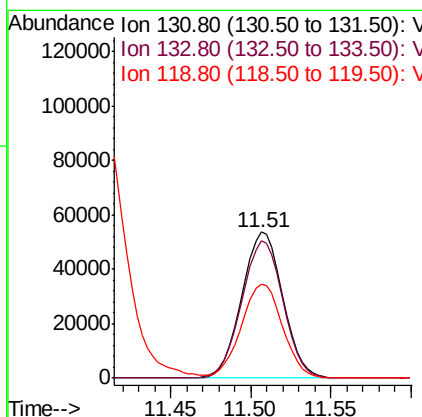
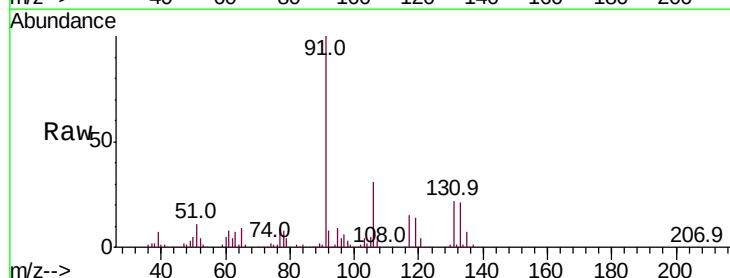
Manual Integrations
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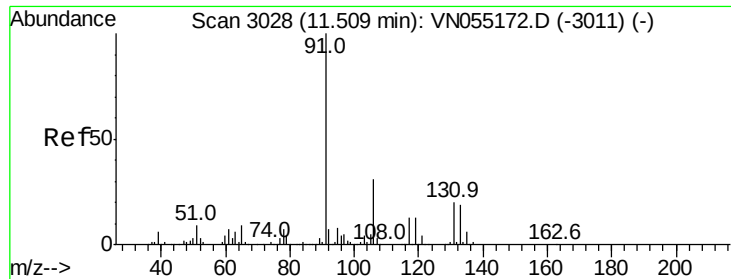
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.385 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion:131 Resp: 94075
Ion Ratio Lower Upper
131 100
133 94.5 47.7 143.1
119 64.7 33.2 99.6





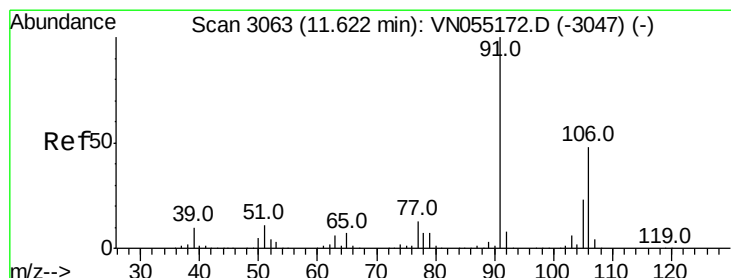
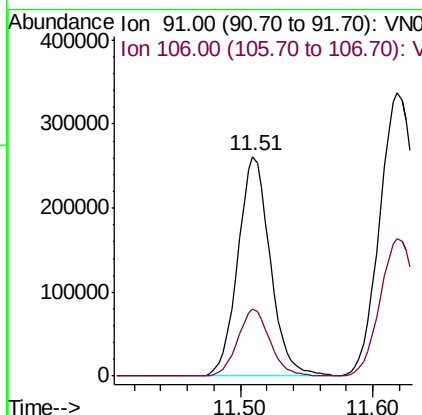
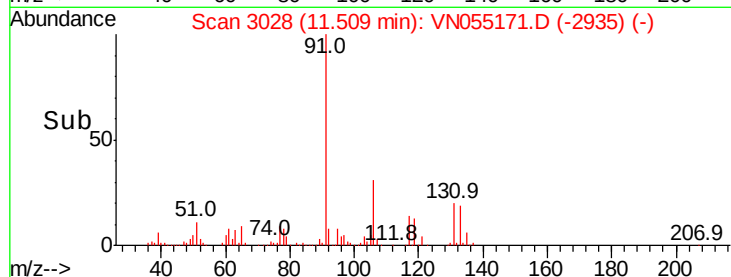
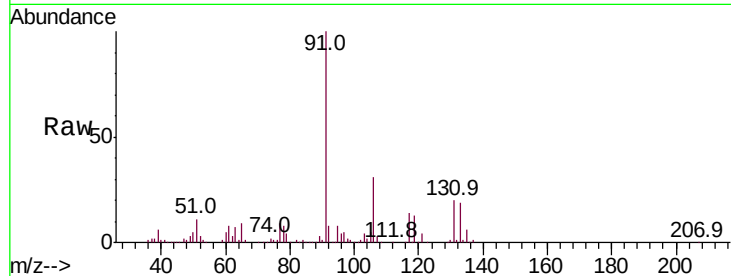
#67
Ethyl Benzene
Concen: 19.990 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 443397
Ion Ratio Lower Upper
91 100
106 30.6 24.5 36.7

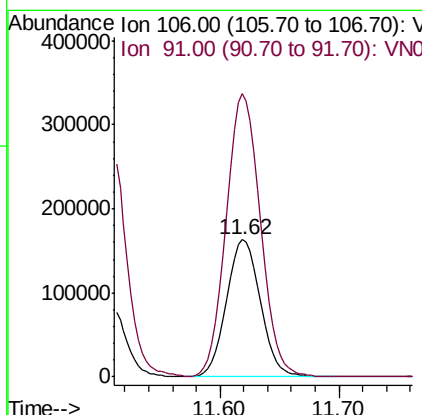
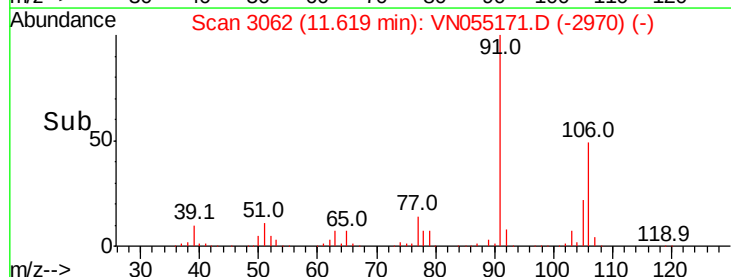
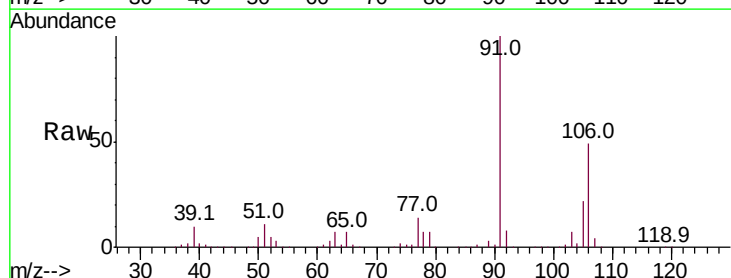
Manual Integrations
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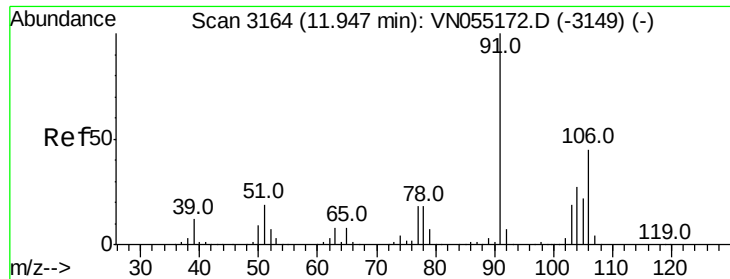
MMDadoda
4/23/2019 1:46:34 PM



#68
m/p-Xylenes
Concen: 40.667 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion: 106 Resp: 323520
Ion Ratio Lower Upper
106 100
91 207.8 167.1 250.7





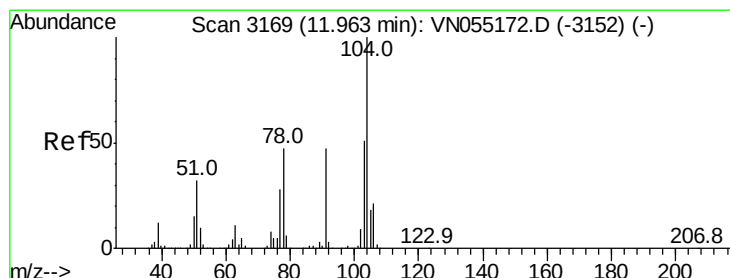
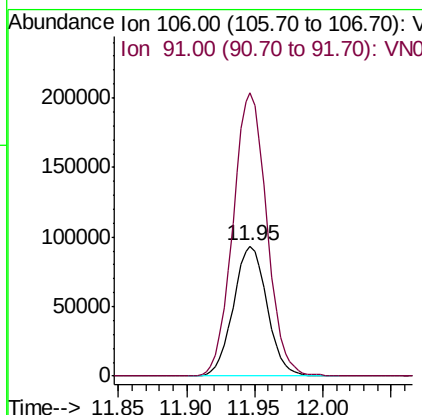
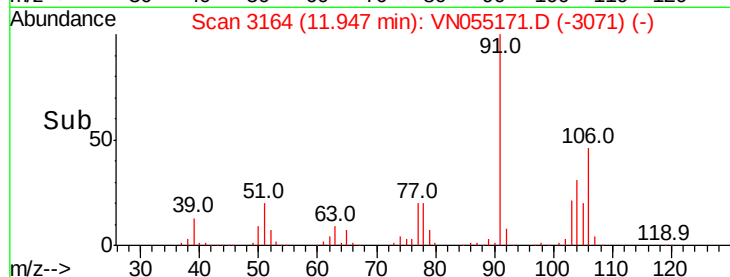
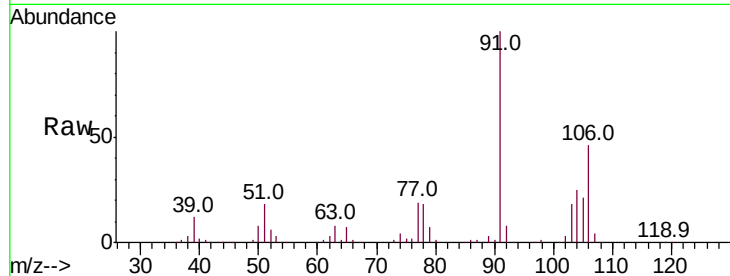
#69
o-Xylene
Concen: 20.309 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:106 Resp: 160338
Ion Ratio Lower Upper
106 100
91 218.5 110.6 331.8

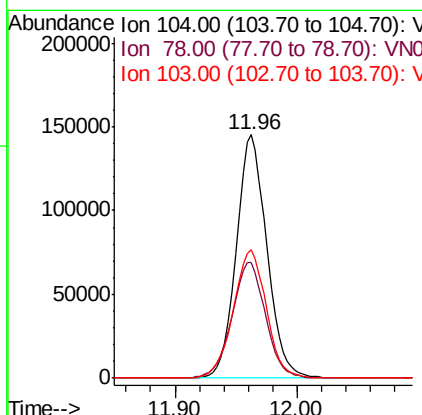
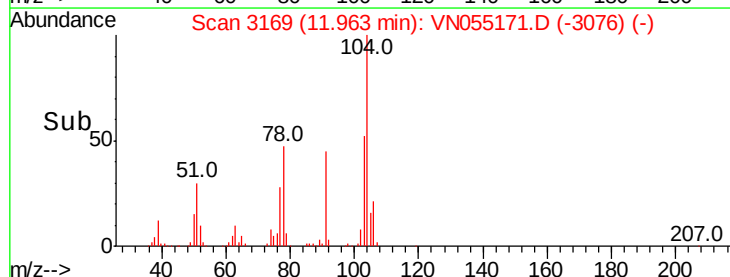
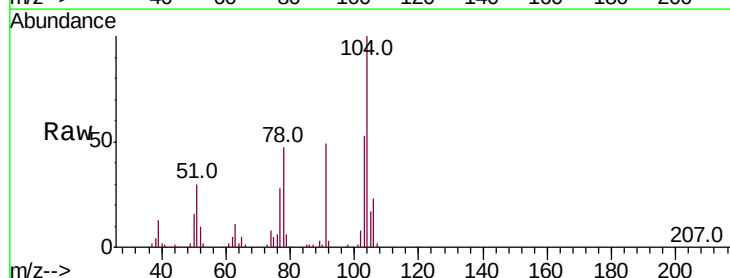
Manual Integrations
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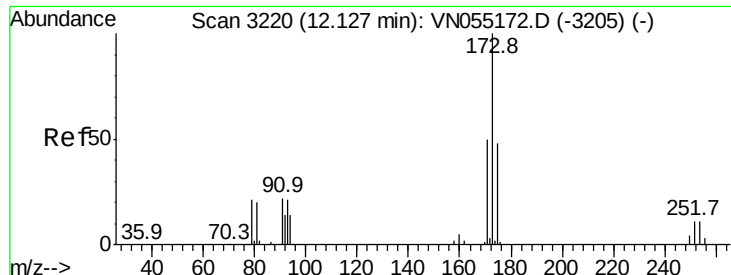
MMDadoda
4/23/2019 1:46:34 PM



#70
Styrene
Concen: 20.497 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion:104 Resp: 250828
Ion Ratio Lower Upper
104 100
78 52.7 41.3 61.9
103 57.0 44.2 66.4





#71

Bromoform

Concen: 20.053 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 55226

Ion Ratio Lower Upper

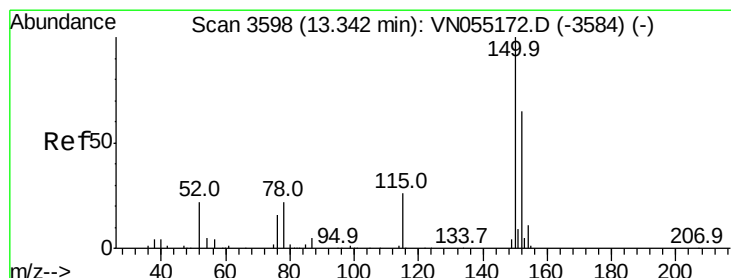
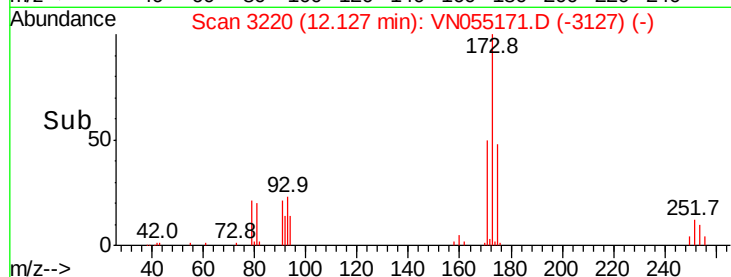
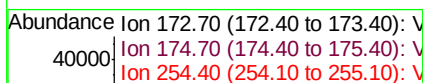
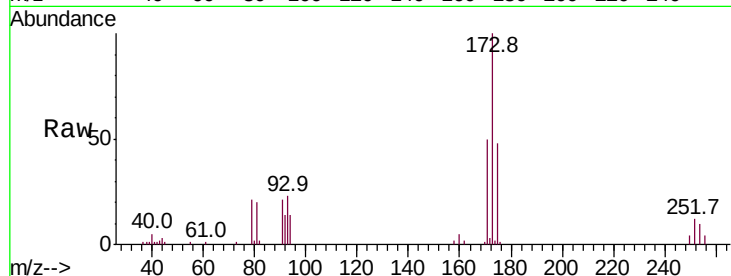
173 100

175 47.4 23.8 71.2

254 0.0 0.1 0.1#

Manual Integrations
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4/23/2019 1:46:34 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

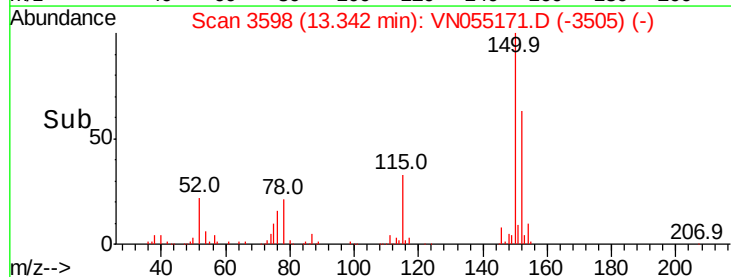
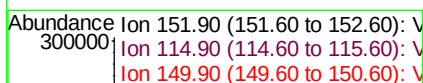
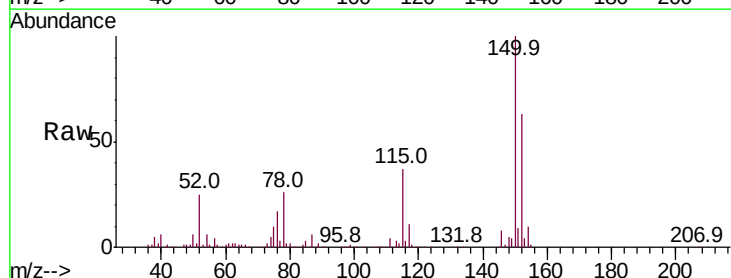
Tgt Ion:152 Resp: 230748

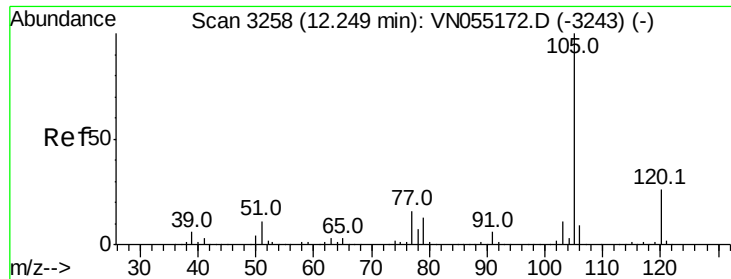
Ion Ratio Lower Upper

152 100

115 58.8 28.9 86.7

150 163.3 0.0 346.6





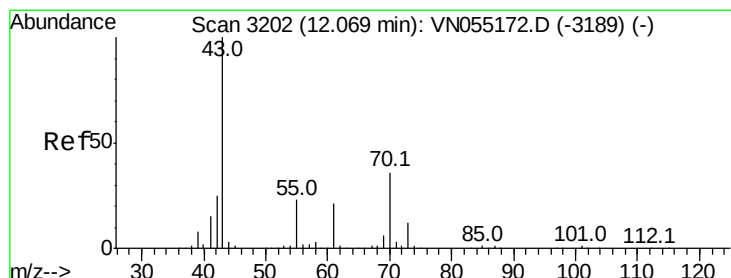
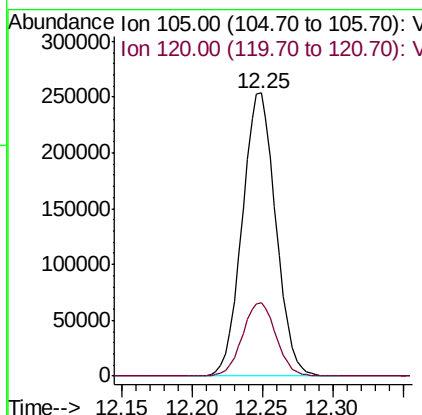
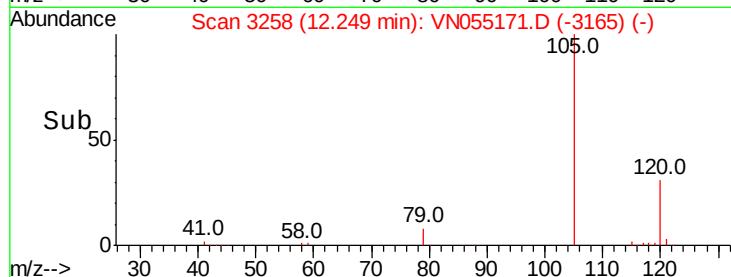
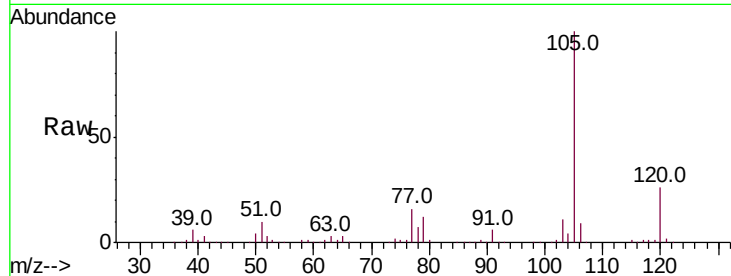
#73
Isopropylbenzene
Concen: 19.097 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.1	39.1

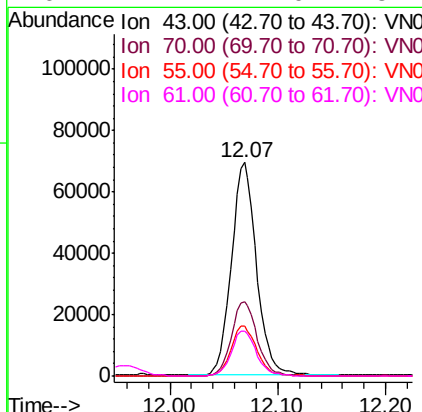
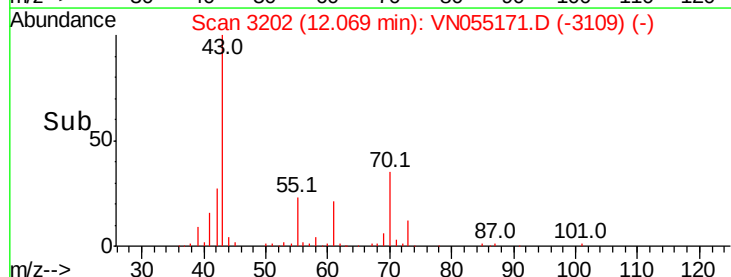
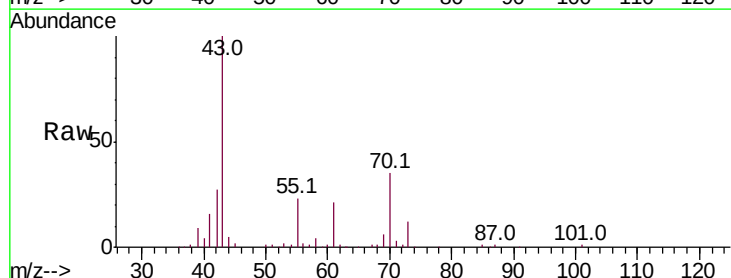
Manual Integrations
APPROVED

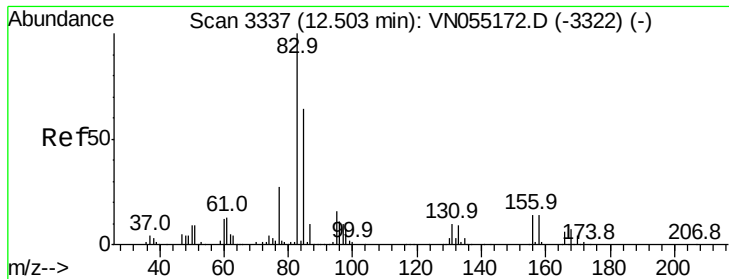
MMDadoda
4/23/2019 1:46:34 PM



#74
N-ethyl acetate
Concen: 18.990 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
43	100		
70	35.8	29.0	43.6
55	24.0	18.5	27.7
61	21.2	17.0	25.4





#75

1,1,2,2-Tetrachloroethane

Concen: 18.098 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

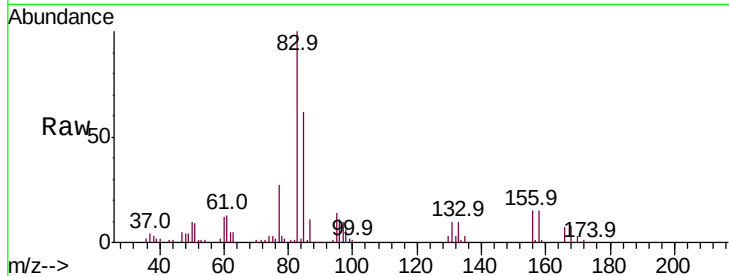
ClientSampleId :

VSTDIC020

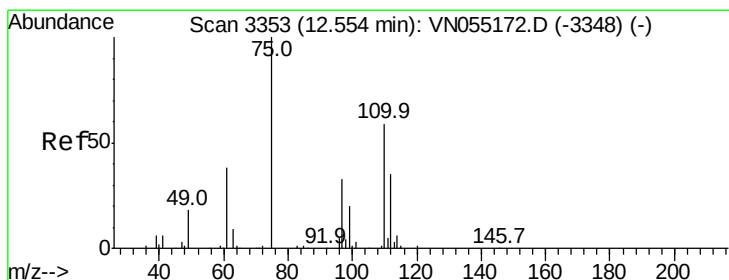
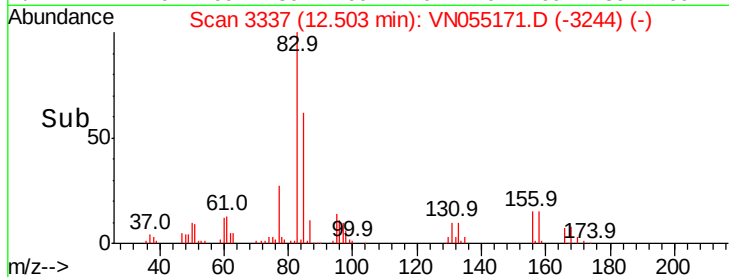
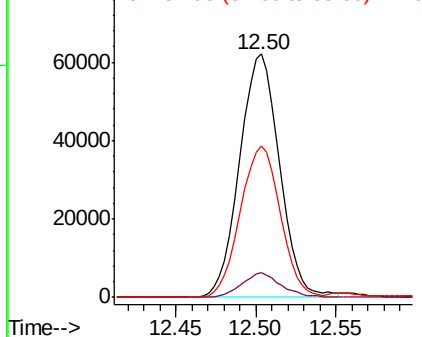
Tot Ion:	83	Resp:	106095
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	15.0
85	62.2	32.1	96.3

Manual Integrations
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4/23/2019 1:46:34 PM



Abundance Ion 82.90 (82.60 to 83.60): VN055171.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 19.158 ug/l m

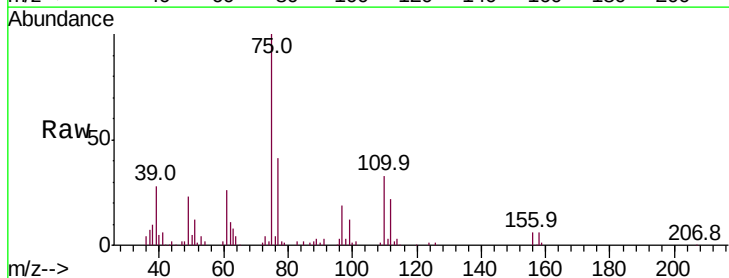
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

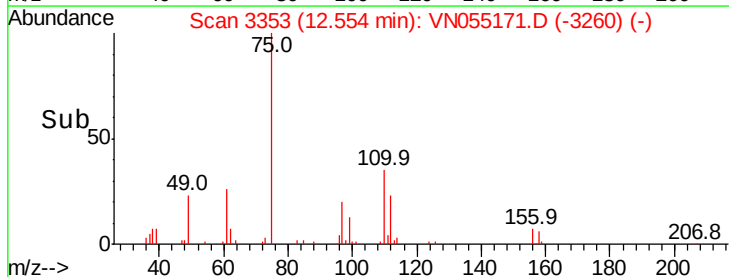
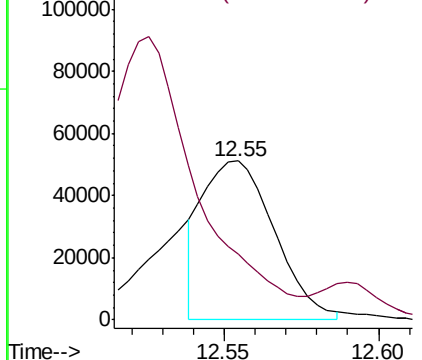
Lab File: VN055171.D

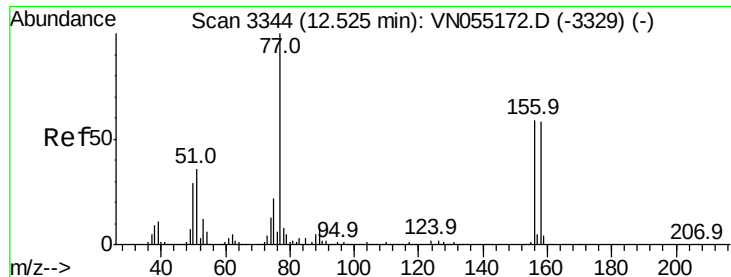
Acq: 22 Apr 2019 10:12

Tgt Ion:	75	Resp:	82847
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055171.D (-3260) (-)





#77

Bromobenzene

Concen: 19.410 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:156 Resp: 98878

Ion Ratio Lower Upper

156 100

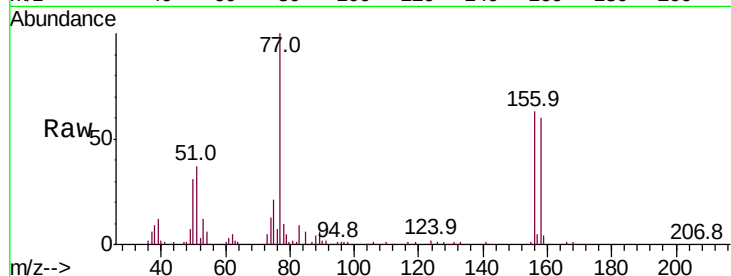
77 191.6 98.0 293.9

158 99.0 48.9 146.8

Manual Integrations
APPROVED

MMDadoda

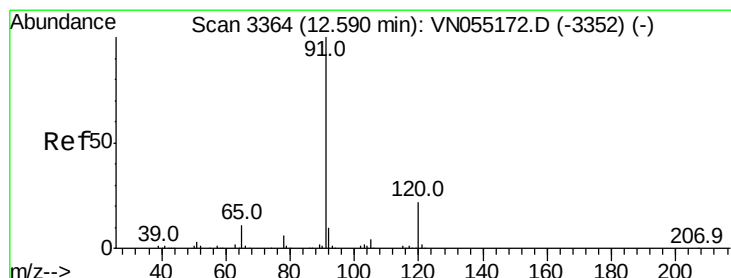
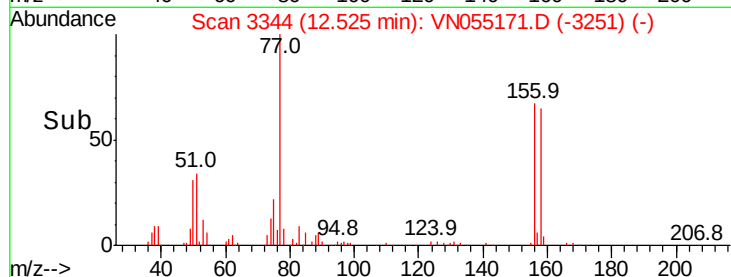
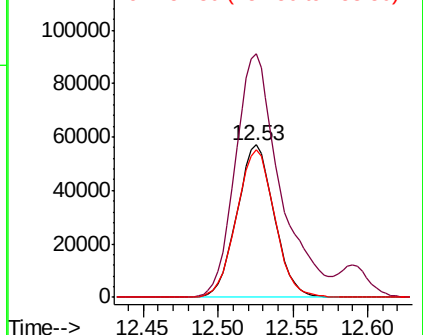
4/23/2019 1:46:34 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.570 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055171.D

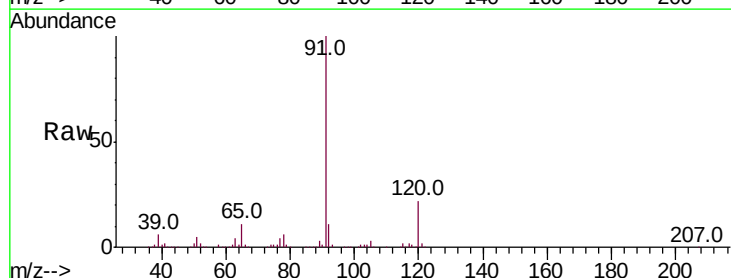
Acq: 22 Apr 2019 10:12

Tgt Ion: 91 Resp: 452877

Ion Ratio Lower Upper

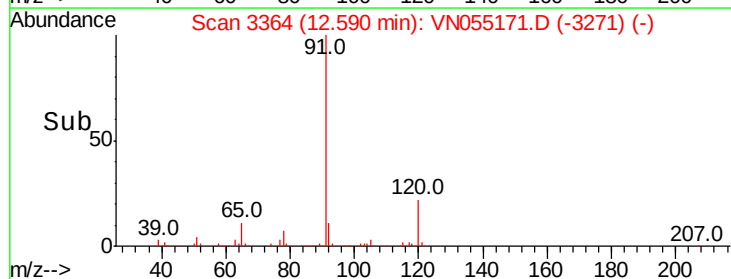
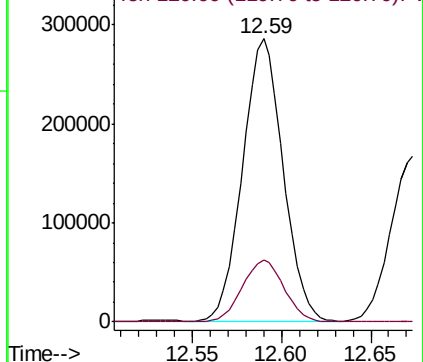
91 100

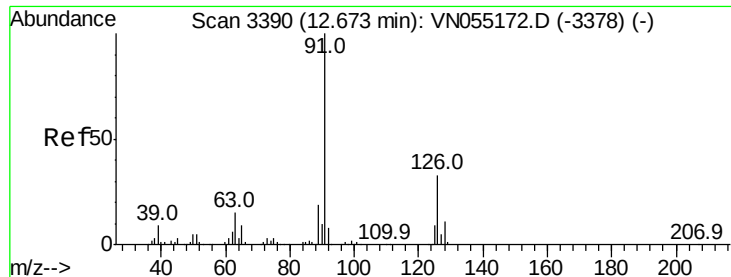
120 22.7 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.258 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 281400

Ion Ratio Lower Upper

91 100

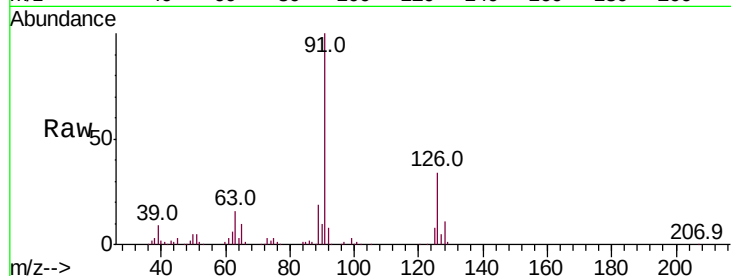
126 33.4 16.8 50.3

Manual Integrations

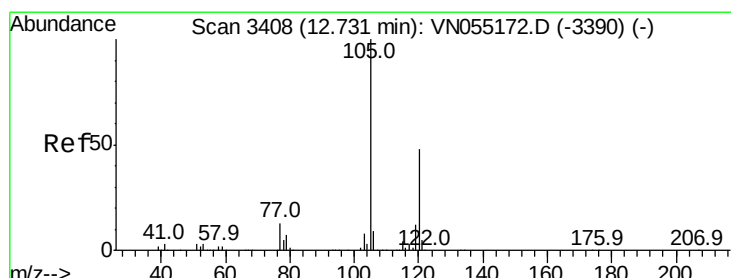
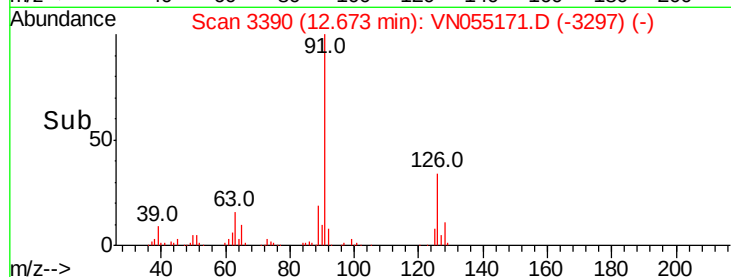
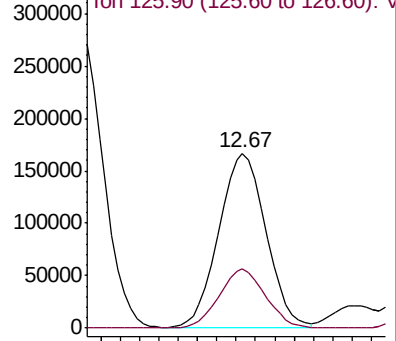
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Abundance Ion 91.00 (90.70 to 91.70): VN055171.D (-3390) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.538 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055171.D

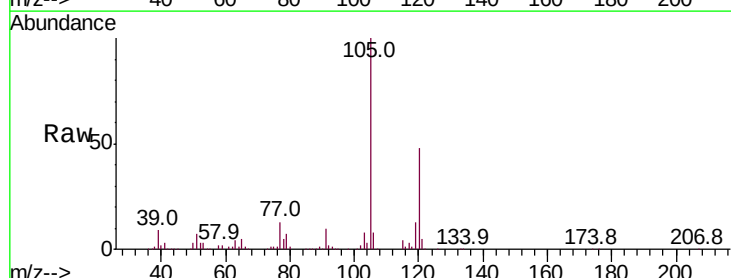
Acq: 22 Apr 2019 10:12

Tgt Ion:105 Resp: 337493

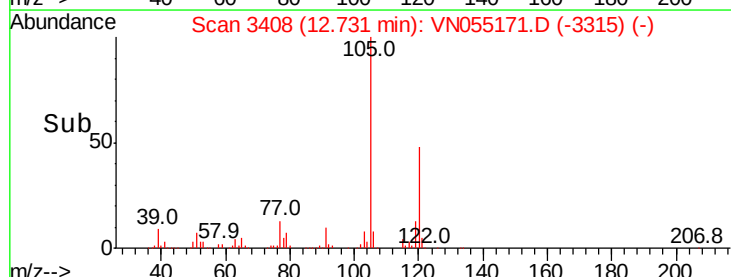
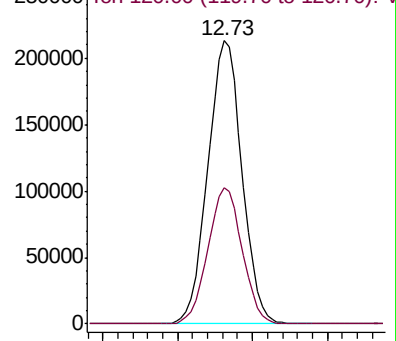
Ion Ratio Lower Upper

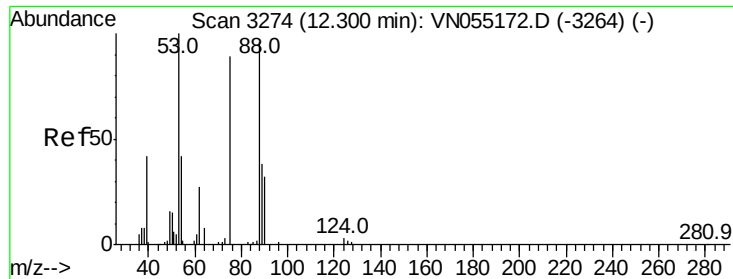
105 100

120 48.2 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN055171.D (-3315) (-)





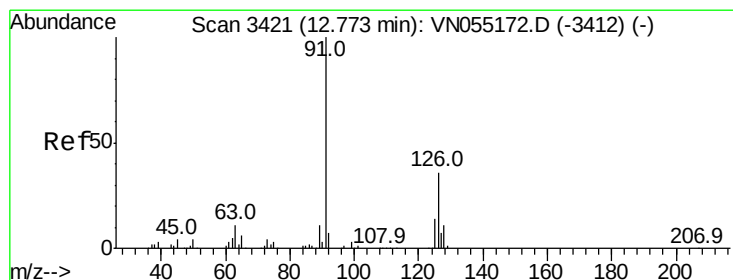
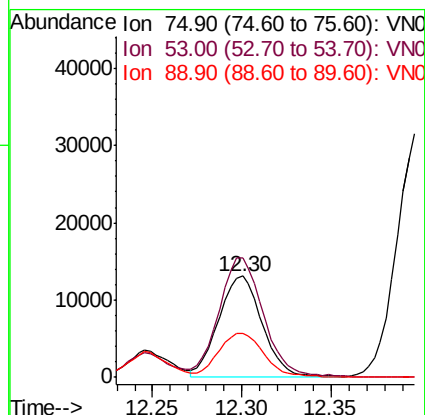
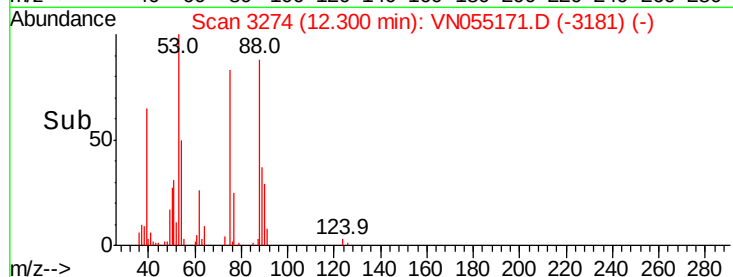
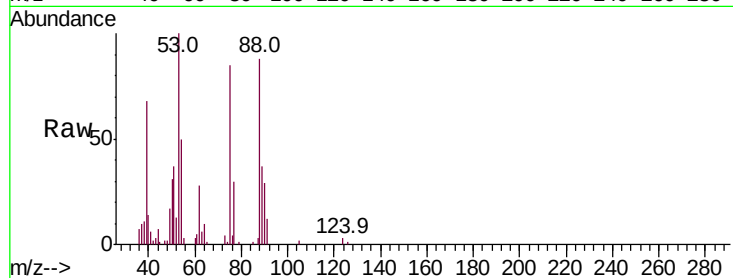
#81
trans-1,4-Dichloro-2-butene
Concen: 18.101 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	121.1	90.1	135.1
89	45.0	36.7	55.1

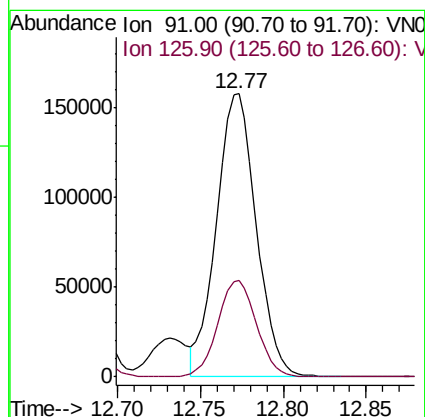
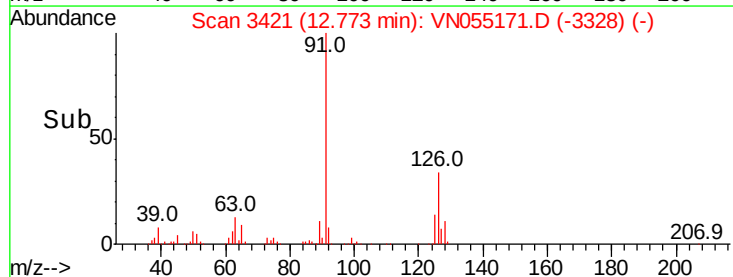
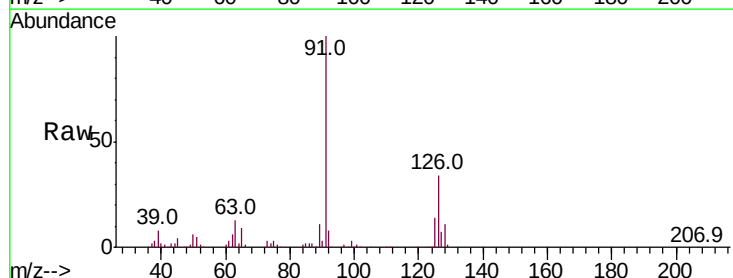
Manual Integrations
APPROVED

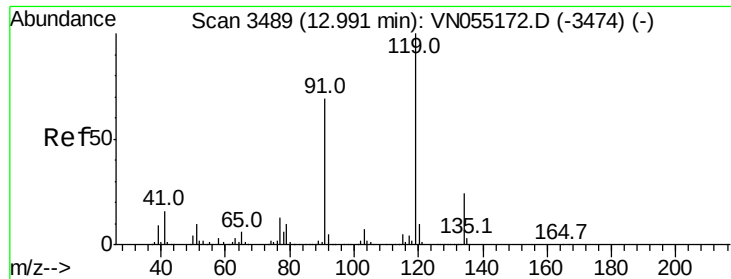
MMDadoda
4/23/2019 1:46:34 PM



#82
4-Chlorotoluene
Concen: 19.468 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055171.D
Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.5	49.5





#83

tert-Butylbenzene

Concen: 19.016 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

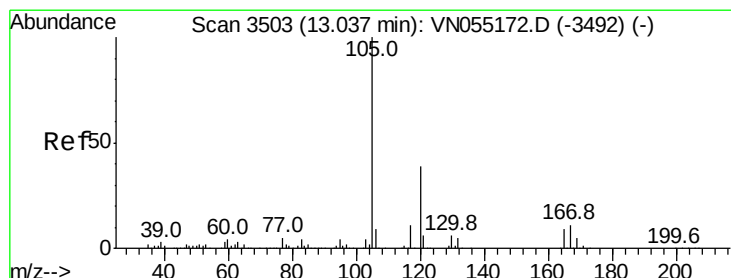
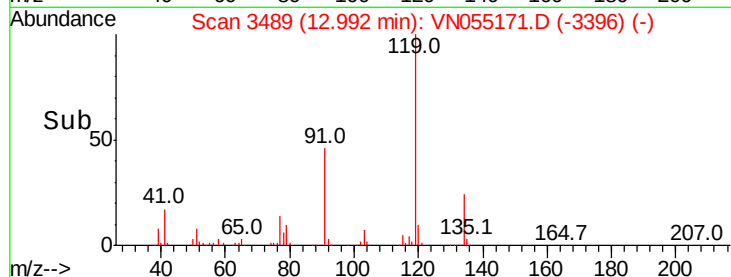
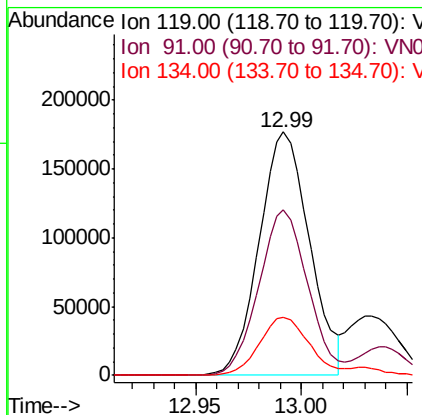
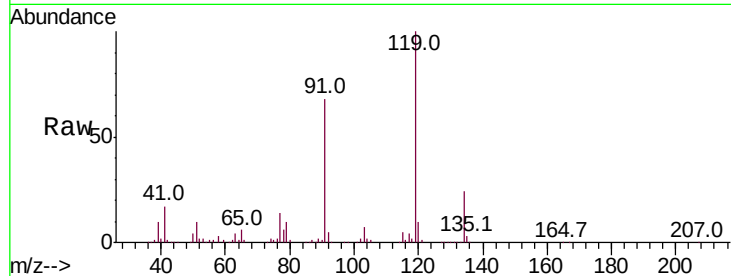
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	293859
Ion Ratio	Lower	Upper	
119	100		
91	66.3	33.8	101.3
134	23.6	13.2	39.5

Manual Integrations
APPROVED

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4/23/2019 1:46:34 PM



#84

1,2,4-Trimethylbenzene

Concen: 19.934 ug/l

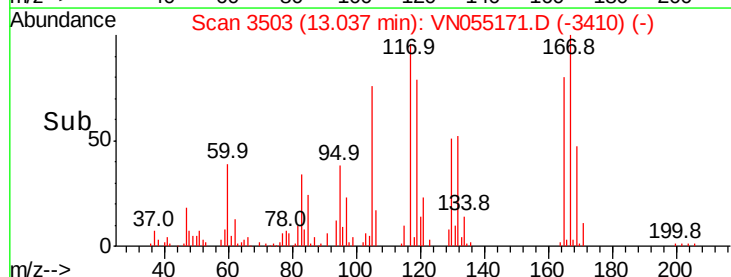
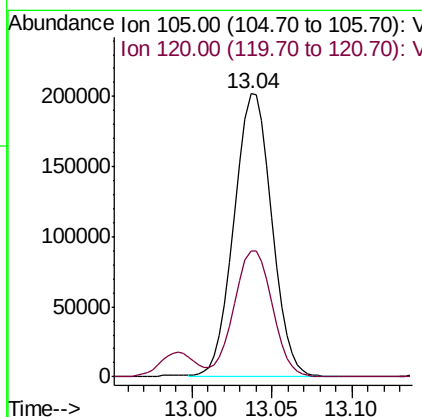
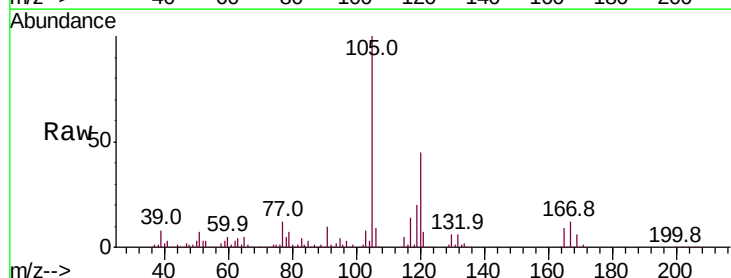
RT: 13.04 min Scan# 3503

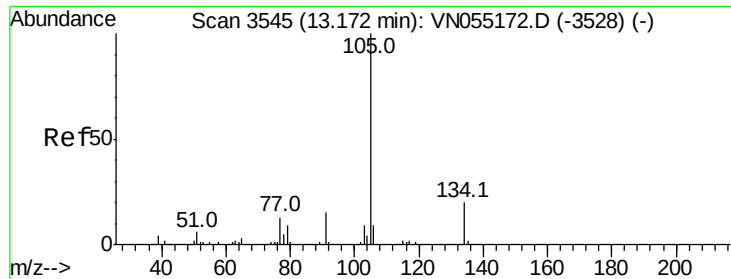
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	105	Resp:	324940
Ion Ratio	Lower	Upper	
105	100		
120	45.2	22.7	68.1





#85

sec-Butylbenzene

Concen: 18.828 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 367935

Ion Ratio Lower Upper

105 100

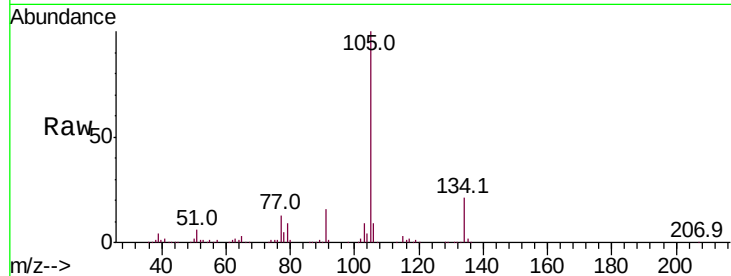
134 20.8 10.0 30.0

Manual Integrations

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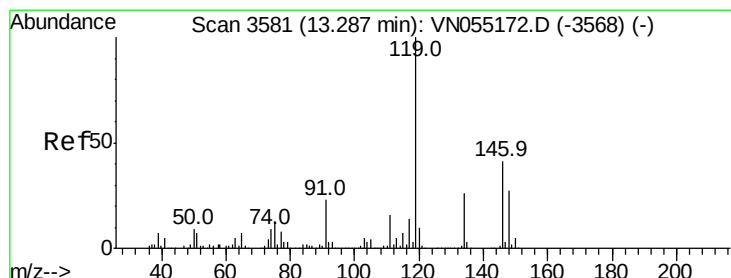
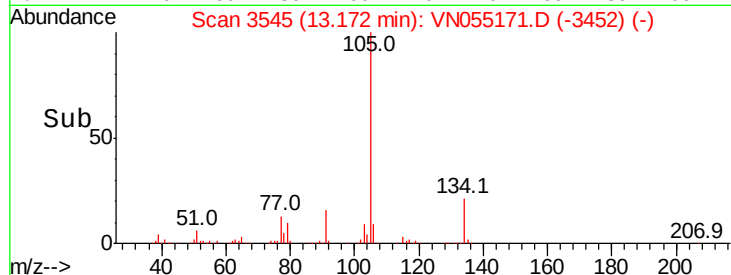
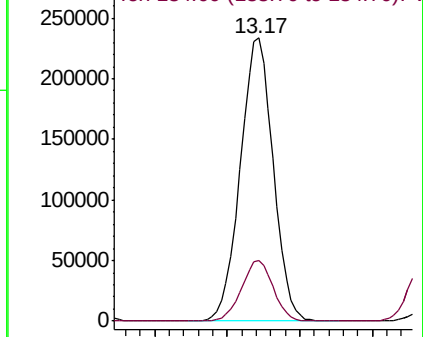
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.673 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

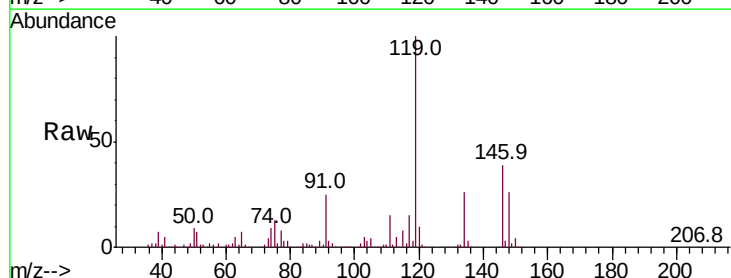
Tgt Ion:119 Resp: 316735

Ion Ratio Lower Upper

119 100

134 26.5 13.1 39.3

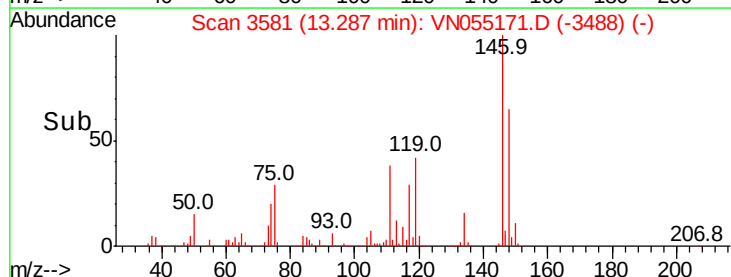
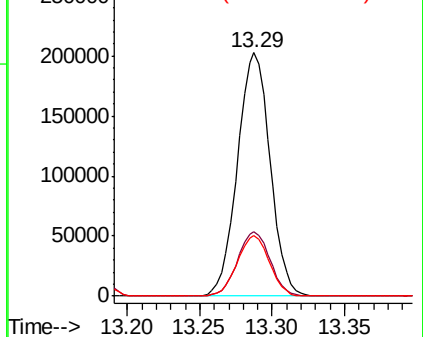
91 24.4 11.8 35.3

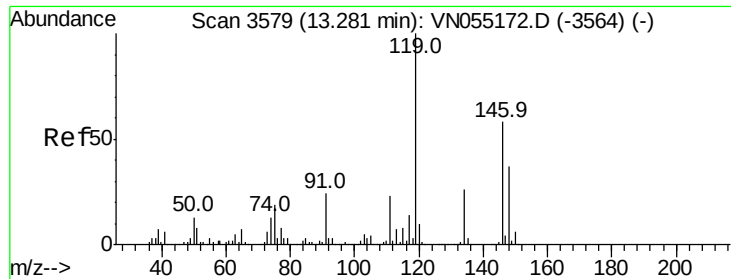


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





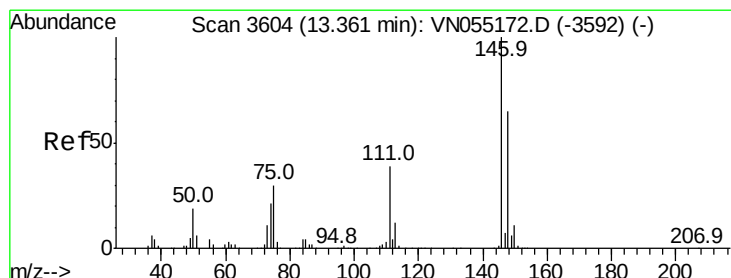
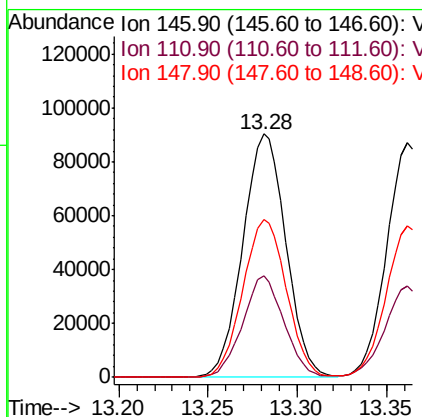
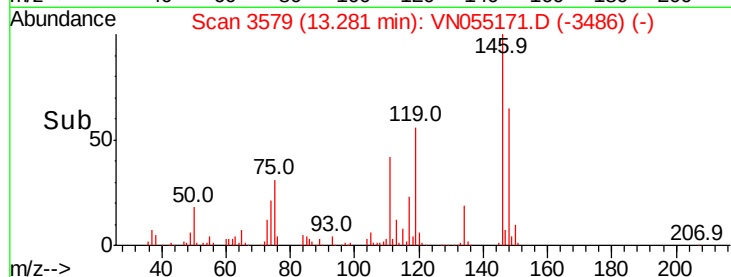
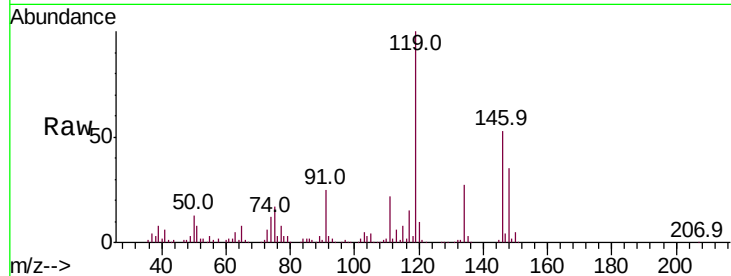
#87
 1,3-Dichlorobenzene
 Concen: 19.546 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	152850		
111	39.9	19.7	59.1	
148	65.7	32.0	96.0	

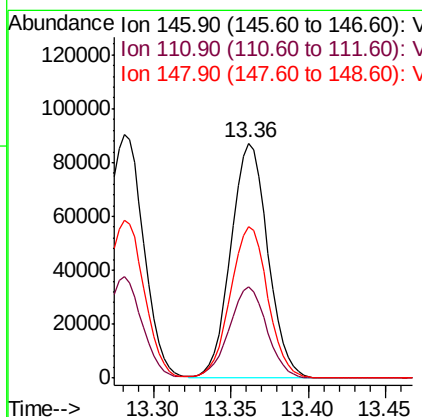
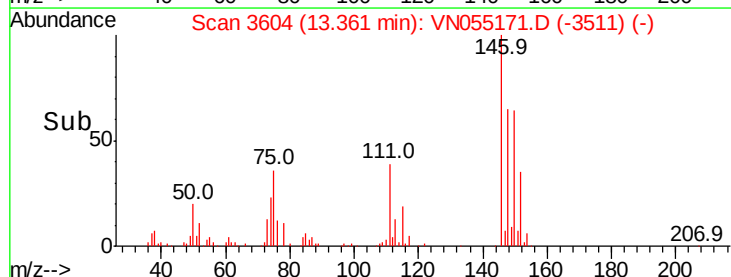
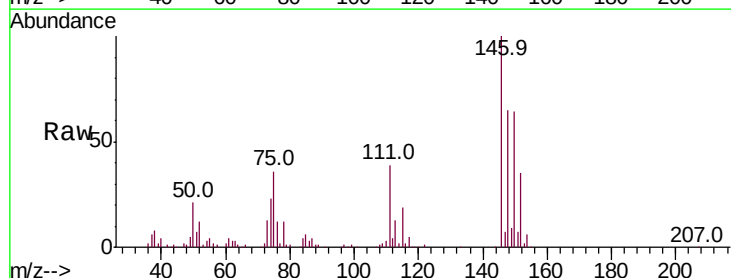
Manual Integrations
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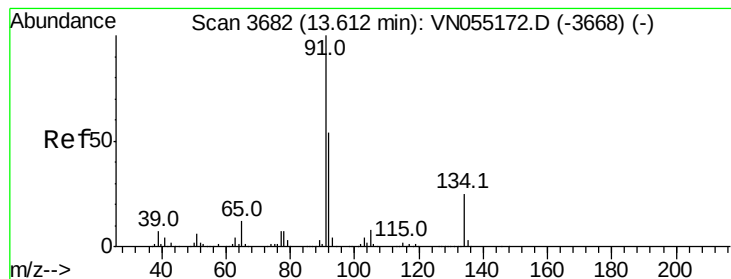
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 4/23/2019 1:46:34 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.002 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	144678		
111	39.8	19.4	58.2	
148	65.5	32.9	98.6	





#89

n-Butylbenzene

Concen: 19.144 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

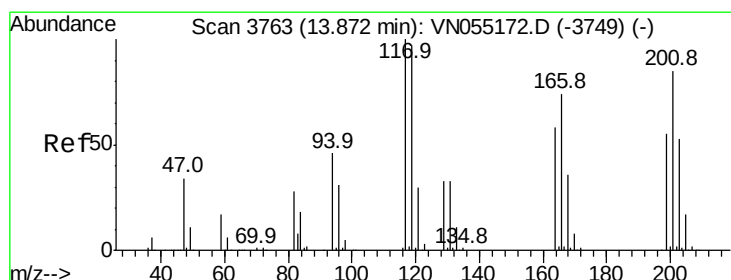
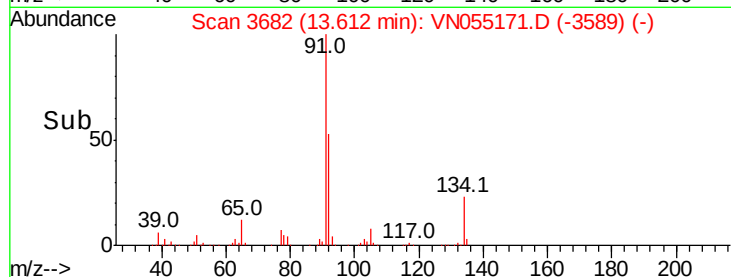
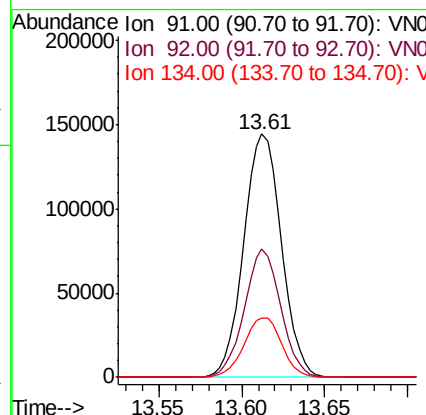
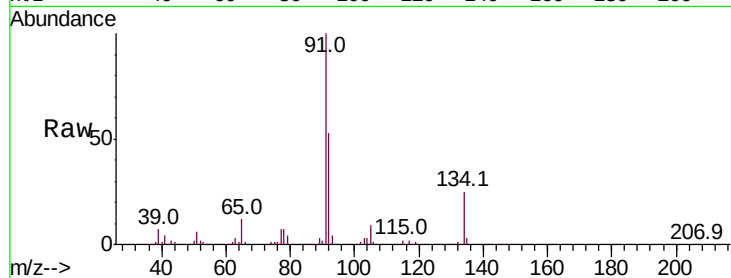
ClientSampleId :

VSTDIC020

Tot Ion:	91	Resp:	228461
Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.4	79.2
134	24.6	12.8	38.4

Manual Integrations
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#90

Hexachloroethane

Concen: 18.798 ug/l

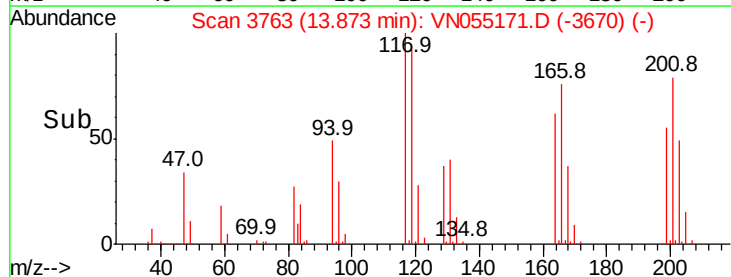
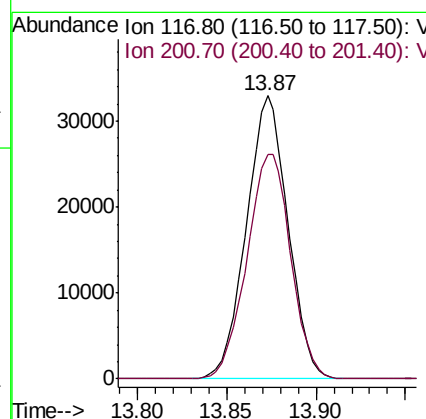
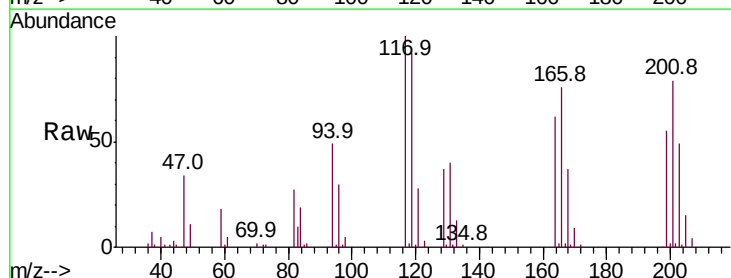
RT: 13.87 min Scan# 3763

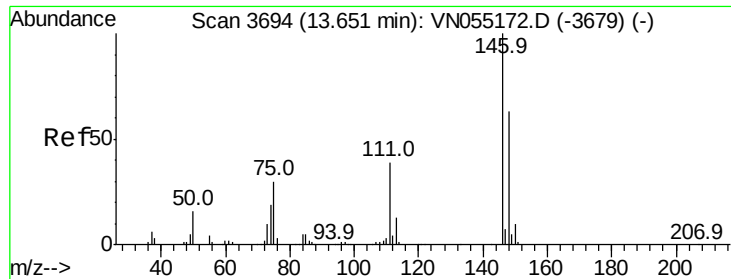
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	117	Resp:	53676
Ion	Ratio	Lower	Upper
117	100		
201	83.6	43.1	129.4





#91

1,2-Dichlorobenzene

Concen: 19.340 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

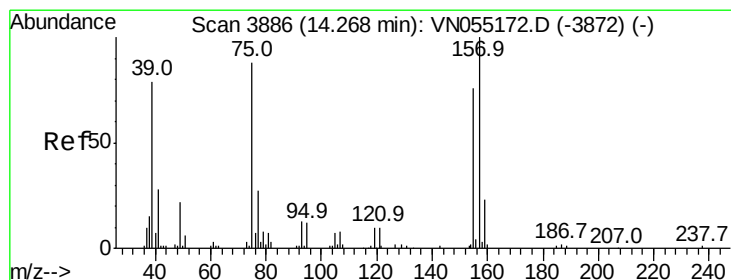
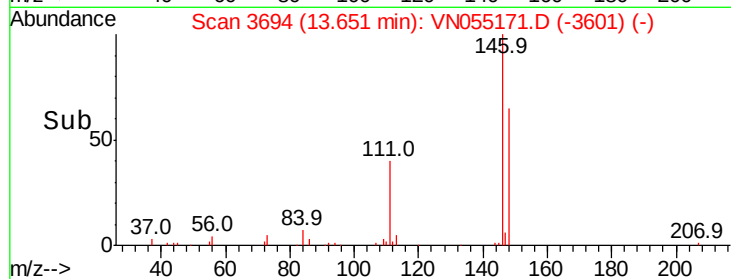
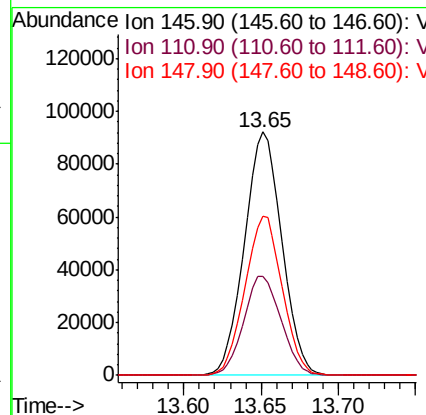
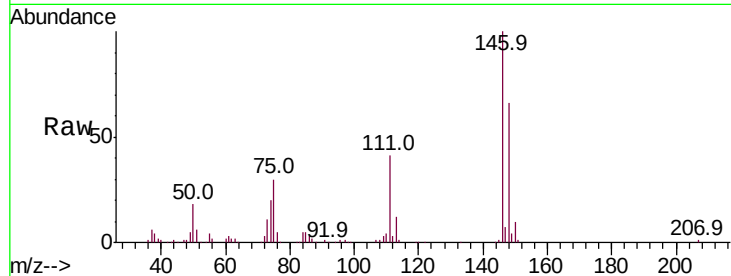
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	155341
Ion Ratio	Lower	Upper	
146	100		
111	40.5	19.8	59.3
148	65.0	31.7	95.1

Manual Integrations
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4/23/2019 1:46:34 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.440 ug/l

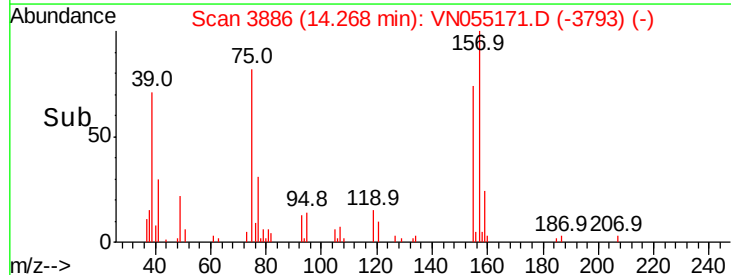
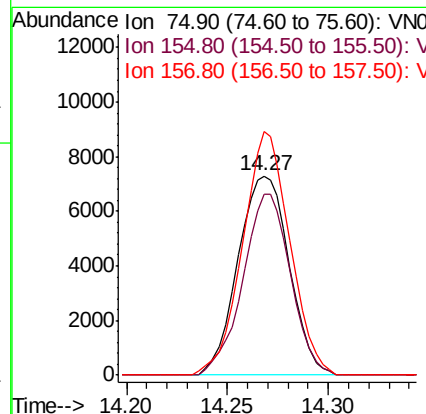
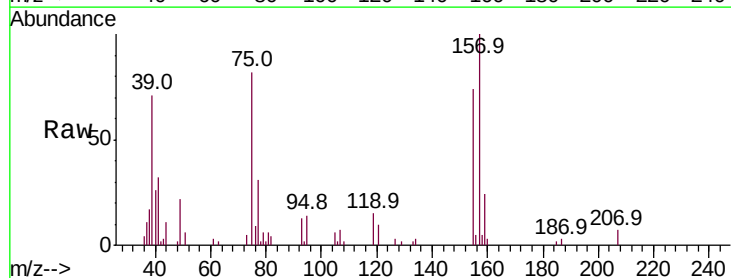
RT: 14.27 min Scan# 3886

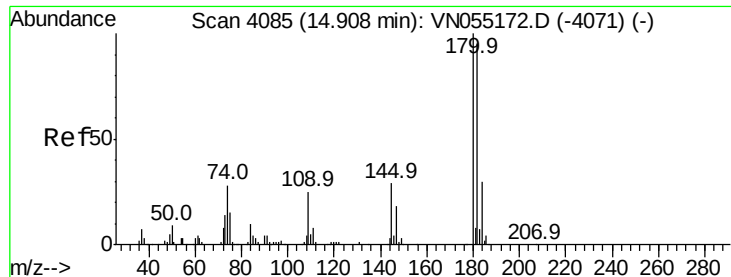
Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	75	Resp:	12921
Ion Ratio	Lower	Upper	
75	100		
155	84.7	43.0	129.0
157	112.8	55.7	167.1





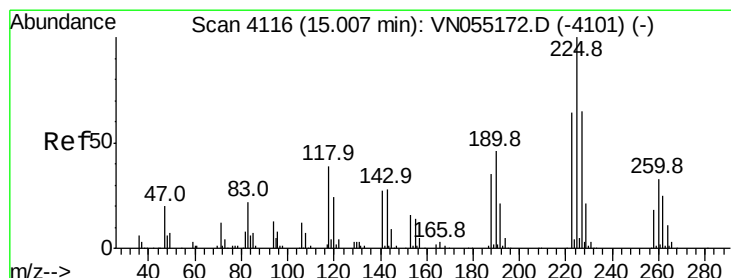
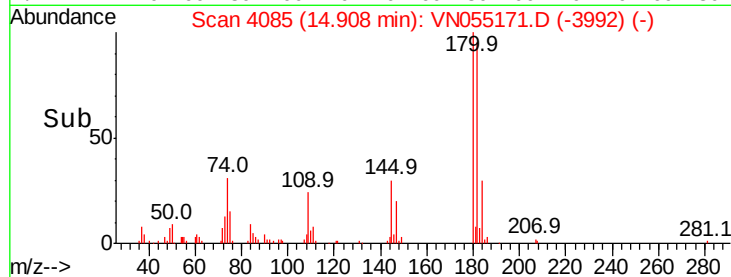
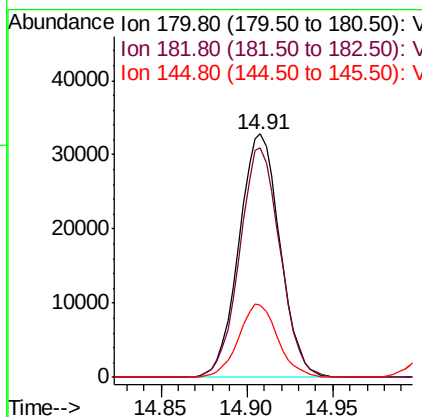
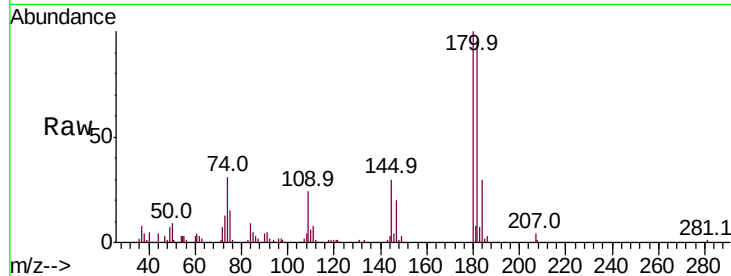
#93
 1,2,4-Trichlorobenzene
 Concen: 19.179 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.8	143.4
145	28.7	14.5	43.5

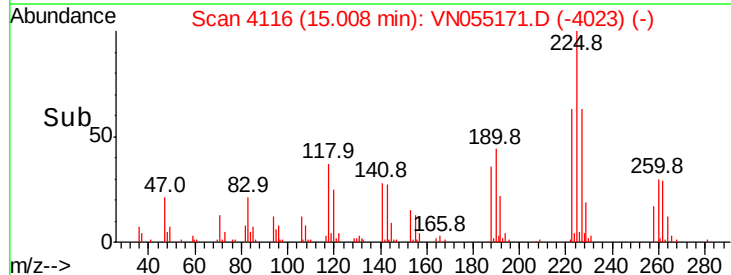
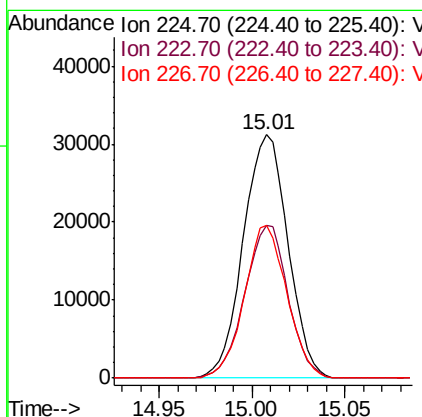
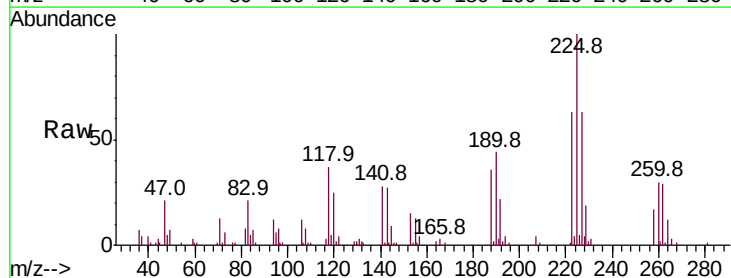
Manual Integrations
 APPROVED

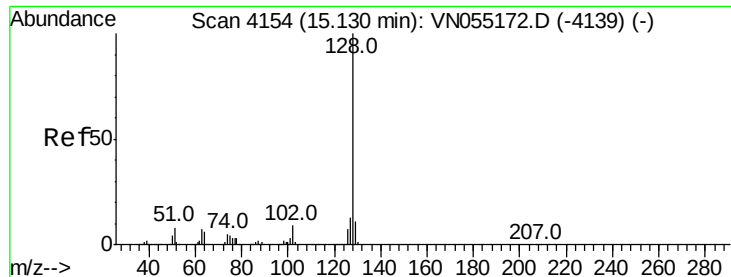
MMDadoda
 4/23/2019 1:46:34 PM



#94
 Hexachlorobutadiene
 Concen: 18.243 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055171.D
 Acq: 22 Apr 2019 10:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.9	32.2	96.6
227	59.7	32.6	98.0





#95

Naphthalene

Concen: 18.624 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Instrument :

MSVOA_N

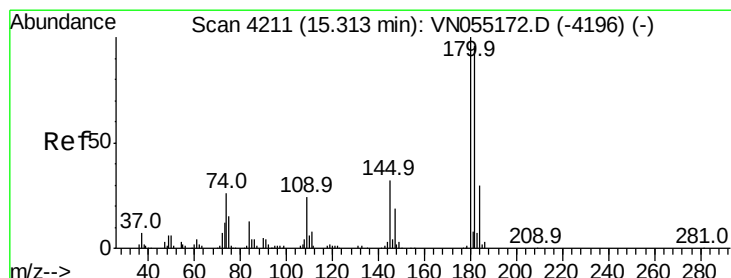
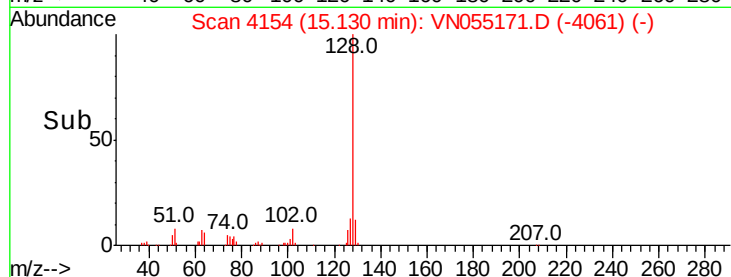
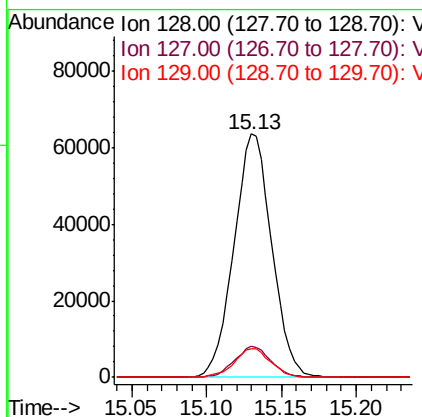
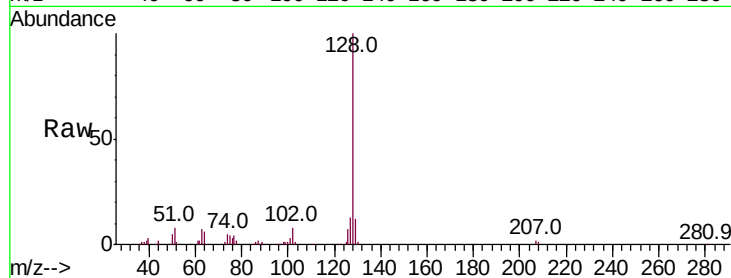
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	111557
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.3	15.5
129	11.2	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/23/2019 1:46:34 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.439 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055171.D

Acq: 22 Apr 2019 10:12

Tgt Ion:	180	Resp:	57346
Ion Ratio	Lower	Upper	
180	100		
182	92.4	47.2	141.6
145	31.1	15.4	46.1

