

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030619\
 Data File : VN054112.D
 Acq On : 6 Mar 2019 11:02
 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
 3/7/2019 11:38:02 AM

Quant Time: Mar 07 06:12:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 05:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	606961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	977232	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	828851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	357127	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	152671	20.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.88%	
35) Dibromofluoromethane	7.59	113	134516	21.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.38%	
50) Toluene-d8	10.09	98	493352	20.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.94%	
62) 4-Bromofluorobenzene	12.40	95	153948	19.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	110784	18.991	ug/l	97
3) Chloromethane	2.06	50	153186	18.326	ug/l	99
4) Vinyl Chloride	2.18	62	152391	19.282	ug/l	99
5) Bromomethane	2.57	94	88152	17.202	ug/l	97
6) Chloroethane	2.71	64	91312	19.061	ug/l	99
7) Trichlorofluoromethane	3.02	101	189648	19.641	ug/l	98
8) Diethyl Ether	3.41	74	70600	18.349	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	120468	19.177	ug/l	100
10) Methyl Iodide	3.95	142	125381	18.808	ug/l	99
11) Tert butyl alcohol	4.78	59	39519	89.113	ug/l	99
12) 1,1-Dichloroethene	3.74	96	113206	19.318	ug/l	98
13) Acrolein	3.61	56	37542	96.259	ug/l	100
14) Allyl chloride	4.32	41	204250	19.344	ug/l	99
15) Acrylonitrile	4.99	53	229736	91.779	ug/l	97
16) Acetone	3.81	43	212269	94.121	ug/l	99
17) Carbon Disulfide	4.05	76	343918	17.993	ug/l	99
18) Methyl Acetate	4.32	43	100622	17.500	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	308853	18.780	ug/l	100
20) Methylene Chloride	4.55	84	135509	18.909	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	122055	18.973	ug/l	98
22) Diisopropyl ether	5.95	45	401267	19.504	ug/l	93
23) Vinyl Acetate	5.90	43	1357254	92.874	ug/l	99
24) 1,1-Dichloroethane	5.85	63	239633	19.468	ug/l	99
25) 2-Butanone	6.83	43	277746	92.982	ug/l	98
26) 2,2-Dichloropropane	6.82	77	171813	19.366	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	139686	19.472	ug/l	99
28) Bromochloromethane	7.19	49	129082	21.011	ug/l	99
29) Tetrahydrofuran	7.21	42	175058	89.412	ug/l	99
30) Chloroform	7.37	83	234636	19.894	ug/l	97
31) Cyclohexane	7.65	56	222245	16.630	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	190094	19.440	ug/l	100
36) 1,1-Dichloropropene	7.79	75	170168	18.552	ug/l	100
37) Ethyl Acetate	6.93	43	117744	17.905	ug/l	100
38) Carbon Tetrachloride	7.77	117	167267	19.102	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	199755	18.870	ug/l	98
40) Benzene	8.04	78	529551	19.514	ug/l	99
41) Methacrylonitrile	7.17	41	61373	15.352	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	166017	19.313	ug/l	99
43) Isopropyl Acetate	8.16	43	195033	19.082	ug/l	99
44) Trichloroethene	8.83	130	142136	19.533	ug/l	96
45) 1,2-Dichloropropane	9.12	63	145232	19.403	ug/l	99
46) Dibromomethane	9.21	93	82706	19.356	ug/l	98
47) Bromodichloromethane	9.40	83	174882	19.552	ug/l	96
48) Methyl methacrylate	9.20	41	92326	18.293	ug/l	99
49) 1,4-Dioxane	9.20	88	26470	396.884	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	525256	89.698	ug/l	100
52) Toluene	10.16	92	314466	19.559	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	163602	18.544	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	200294	19.209	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	116690	19.274	ug/l	99
56) Ethyl methacrylate	10.43	69	126172	17.753	ug/l	99
57) 1,3-Dichloropropane	10.71	76	200936	19.452	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	295386	90.803	ug/l	100
59) 2-Hexanone	10.75	43	340503	88.142	ug/l	100
60) Dibromochloromethane	10.90	129	126314	19.513	ug/l	100
61) 1,2-Dibromoethane	11.01	107	110410	19.166	ug/l	98
64) Tetrachloroethene	10.63	164	141219	20.761	ug/l	99
65) Chlorobenzene	11.43	112	331026	19.191	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	123179	19.950	ug/l	99
67) Ethyl Benzene	11.51	91	560469	19.418	ug/l	99
68) m/p-Xylenes	11.62	106	432762	39.731	ug/l	100
69) o-Xylene	11.95	106	210087	20.044	ug/l	100
70) Styrene	11.96	104	326125	19.601	ug/l	99
71) Bromoform	12.13	173	82689	19.459	ug/l #	99
73) Isopropylbenzene	12.25	105	555363	19.544	ug/l	99
74) N-amyl acetate	12.07	43	135438	17.996	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	133542	18.056	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	120795m	21.633	ug/l	
77) Bromobenzene	12.53	156	133741	18.268	ug/l	100
78) n-propylbenzene	12.59	91	621836	19.447	ug/l	99
79) 2-Chlorotoluene	12.67	91	381110	19.624	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	462455	20.020	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	31481	17.763	ug/l	96
82) 4-Chlorotoluene	12.77	91	371519	19.191	ug/l	100
83) tert-Butylbenzene	12.99	119	405120	19.804	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	463437	20.214	ug/l	100
85) sec-Butylbenzene	13.17	105	544907	19.629	ug/l	100
86) p-Isopropyltoluene	13.29	119	458388	19.641	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	233778	18.799	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	229292	18.579	ug/l	99
89) n-Butylbenzene	13.61	91	370634	18.809	ug/l	98
90) Hexachloroethane	13.87	117	85510	19.103	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	231180	18.674	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	19104	18.426	ug/l	98

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ClientSampleId :
VSTDICC020

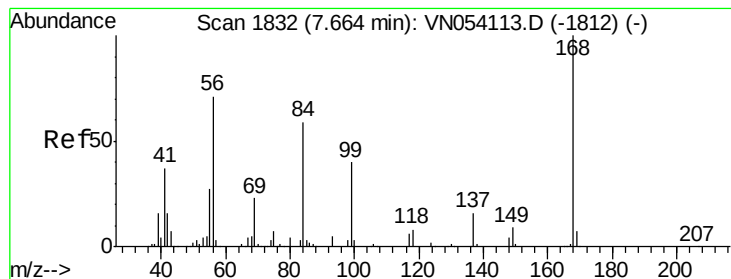
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	101721	17.213	ug/l	99
94) Hexachlorobutadiene	15.01	225	81897	18.483	ug/l	100
95) Naphthalene	15.13	128	190942	15.666	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	103057	17.327	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:168 Resp: 606961

Ion Ratio Lower Upper

168 100

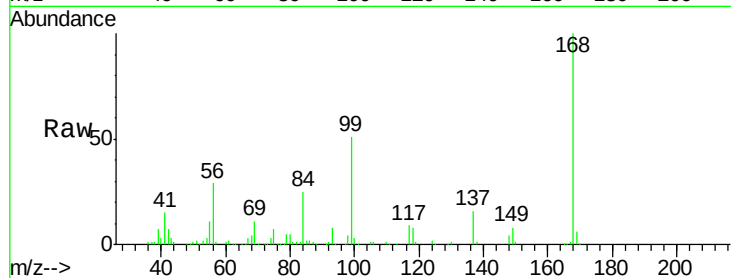
99 49.9 41.1 61.7

Manual Integrations

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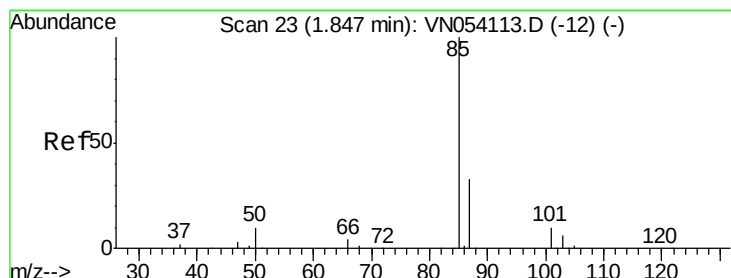
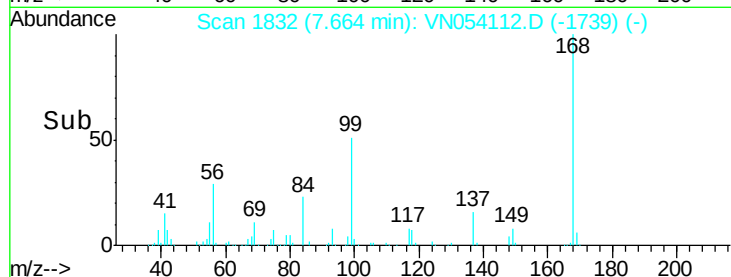
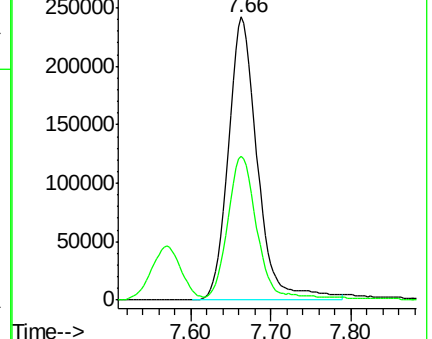
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 18.991 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN054112.D

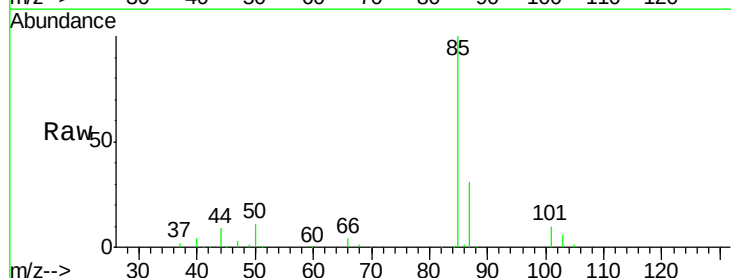
Acq: 6 Mar 2019 11:02

Tgt Ion: 85 Resp: 110784

Ion Ratio Lower Upper

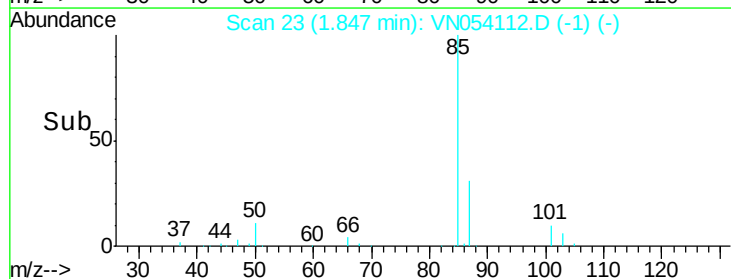
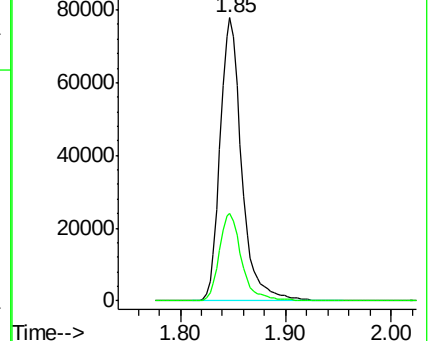
85 100

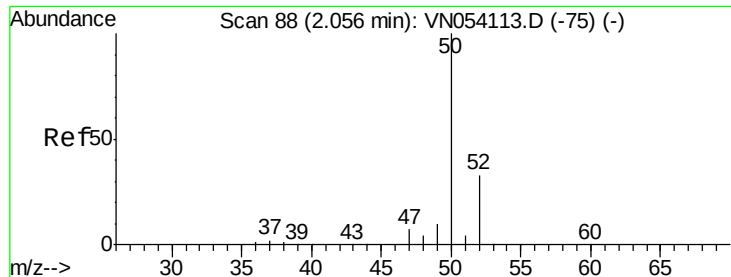
87 31.0 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 18.326 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 50 Resp: 153186

Ion Ratio Lower Upper

50 100

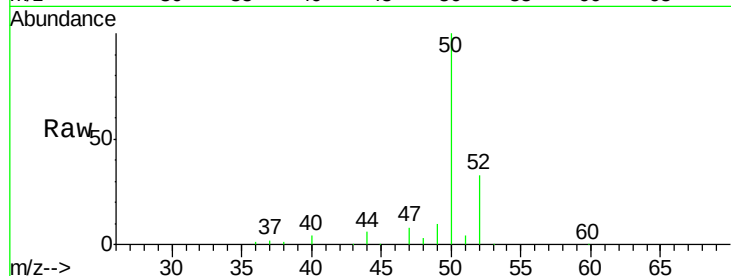
52 33.3 26.0 39.0

Manual Integrations

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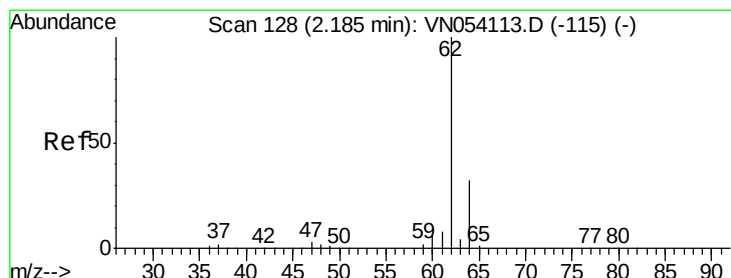
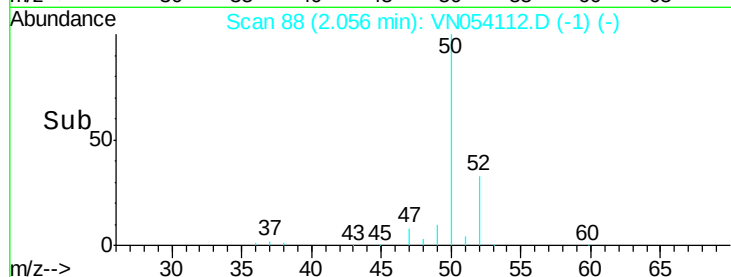
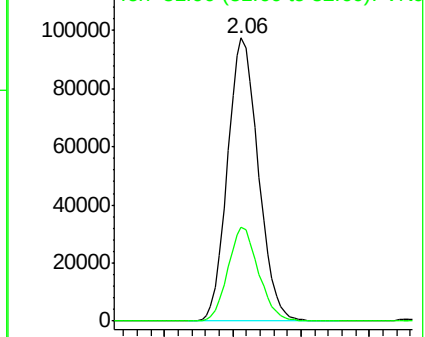
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 19.282 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN054112.D

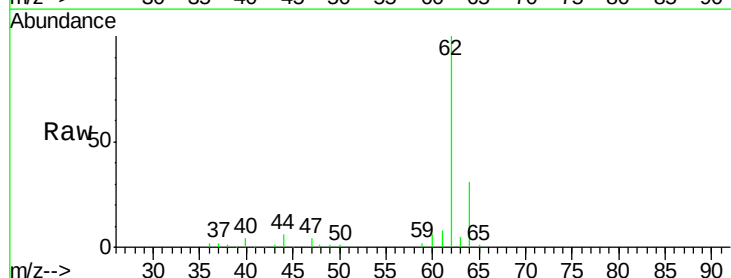
Acq: 6 Mar 2019 11:02

Tgt Ion: 62 Resp: 152391

Ion Ratio Lower Upper

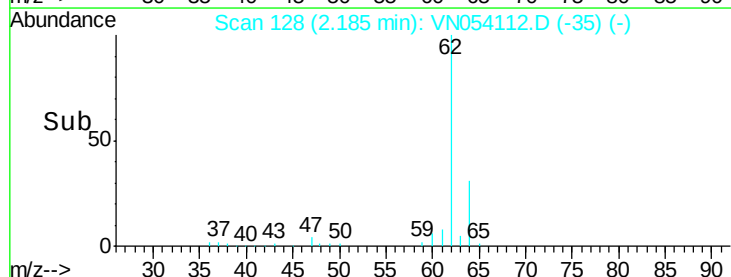
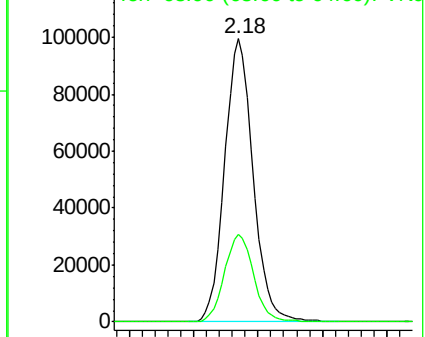
62 100

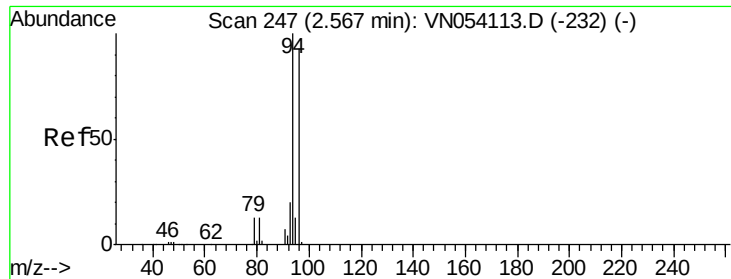
64 31.0 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 17.202 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 94 Resp: 88152

Ion Ratio Lower Upper

94 100

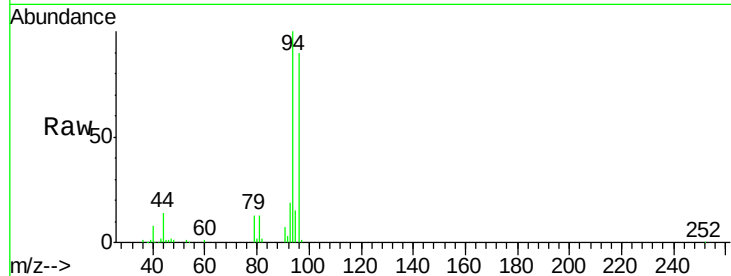
96 89.9 74.2 111.4

Manual Integrations

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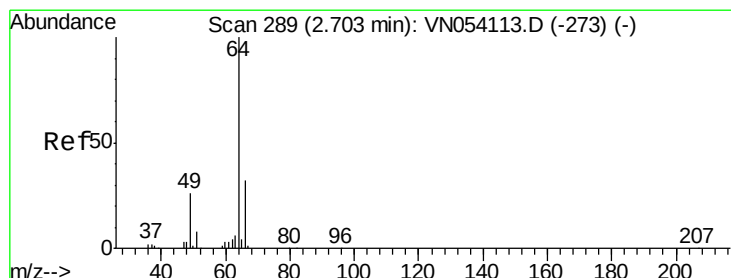
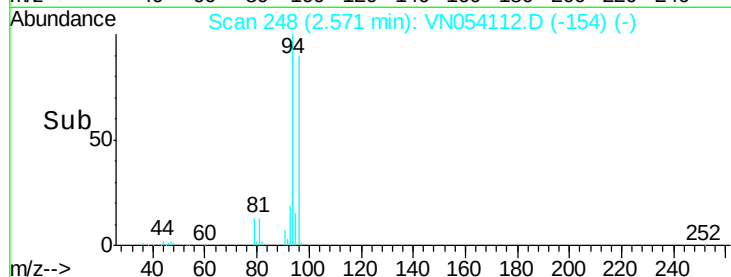
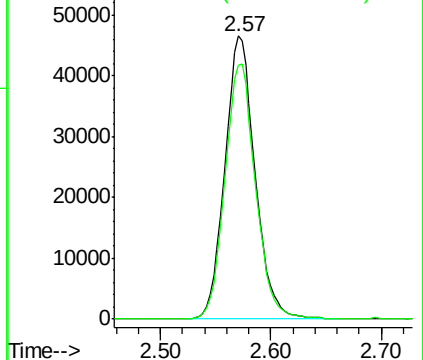
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.061 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN054112.D

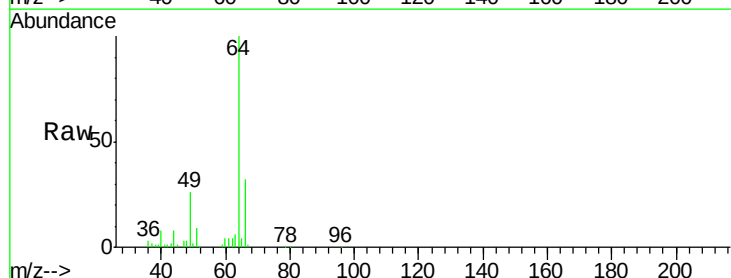
Acq: 6 Mar 2019 11:02

Tgt Ion: 64 Resp: 91312

Ion Ratio Lower Upper

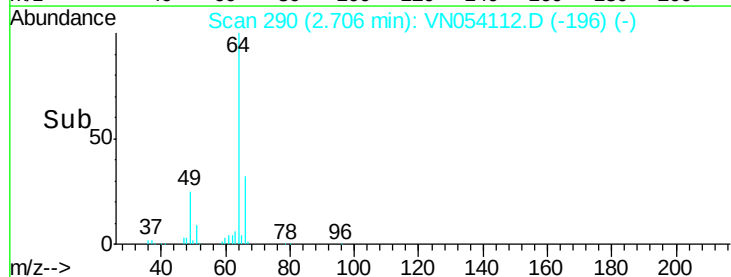
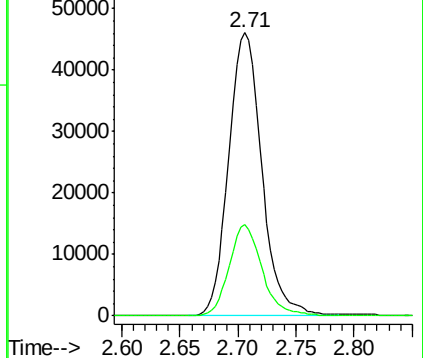
64 100

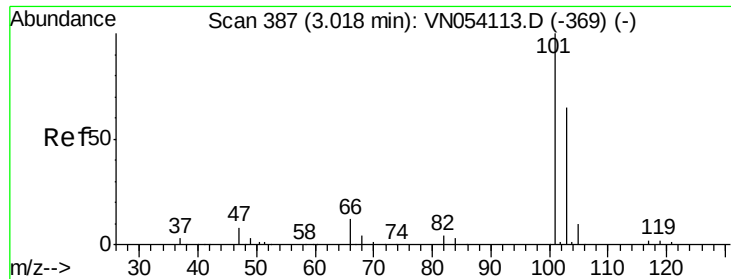
66 32.2 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

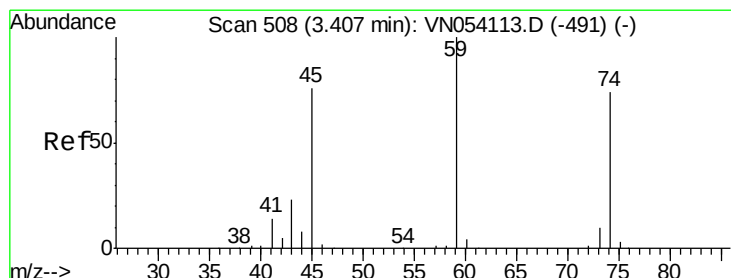
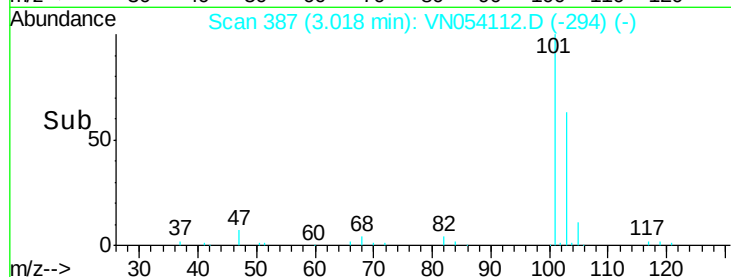
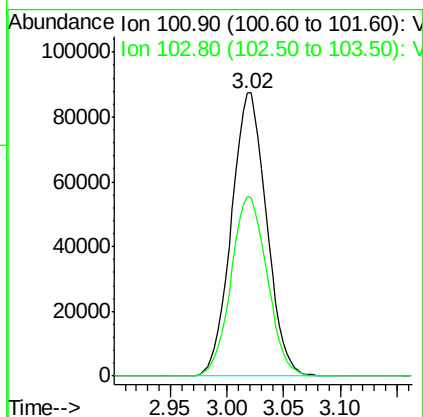
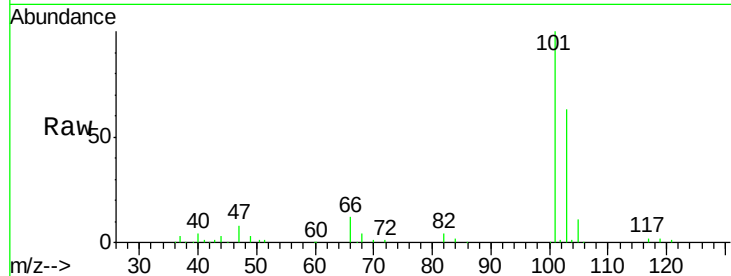
Trichlorofluoromethane
Concen: 19.641 ug/l
RT: 3.02 min Scan# 387
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.0	78.0

Manual Integrations
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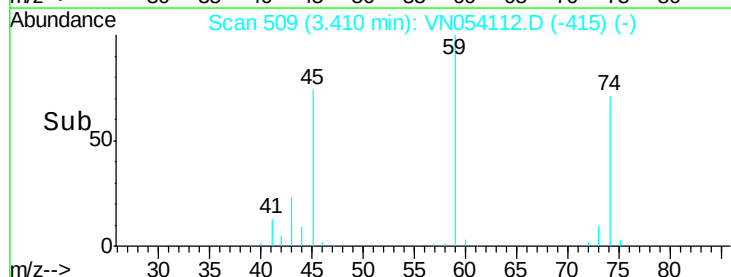
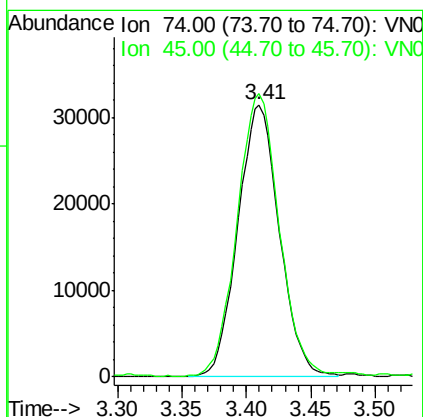
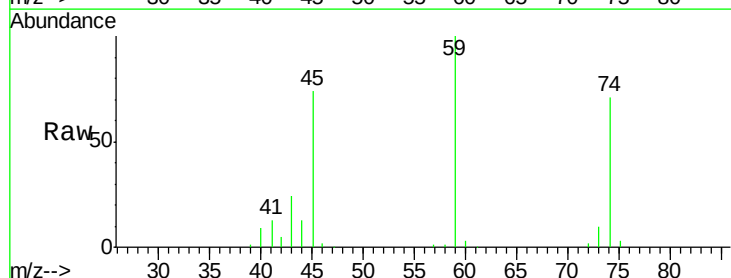
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3/7/2019 11:38:02 AM

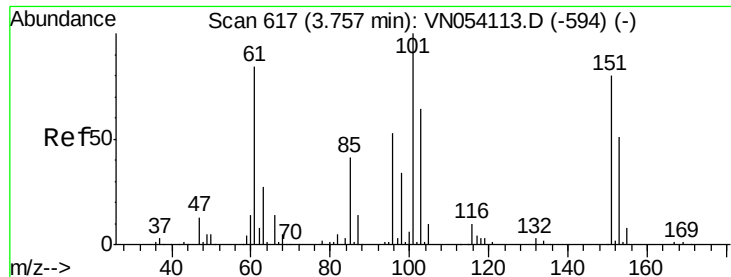


#8

Diethyl Ether
Concen: 18.349 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.2	51.7	155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.177 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

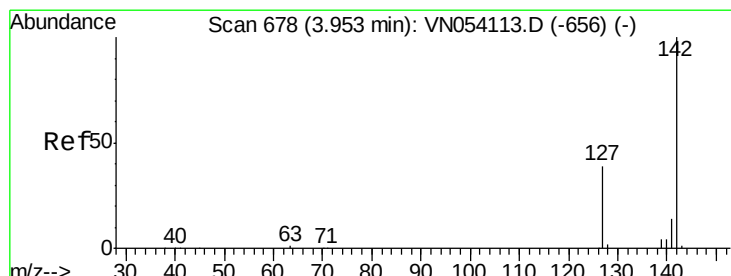
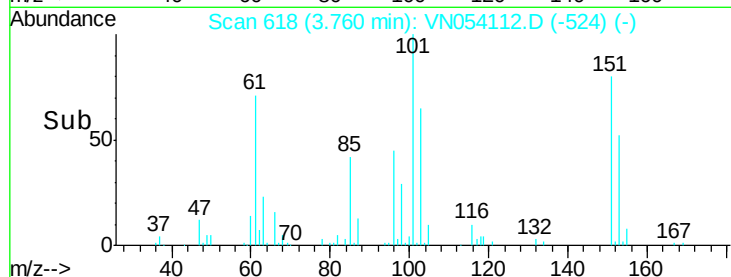
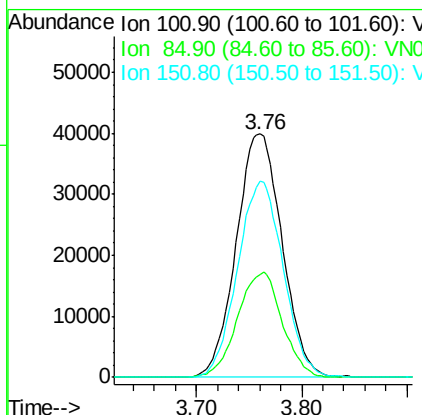
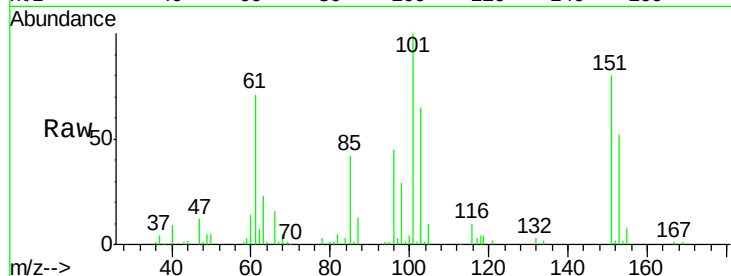
ClientSampled :

VSTDIC020

Tot Ion:	101	Resp:	120468
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.1	49.7
151	80.2	64.3	96.5

Manual Integrations
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3/7/2019 11:38:02 AM



#10

Methyl Iodide

Concen: 18.808 ug/l

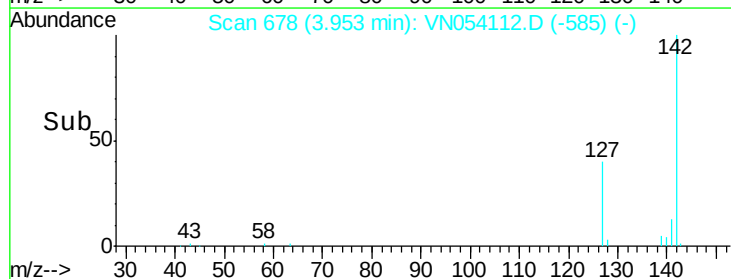
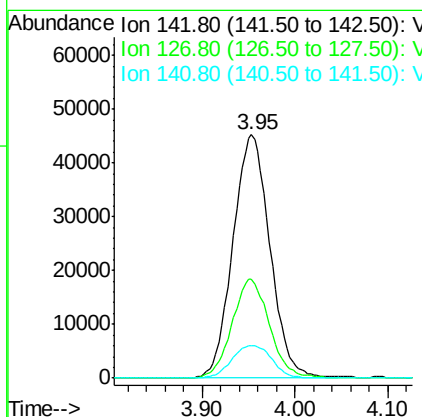
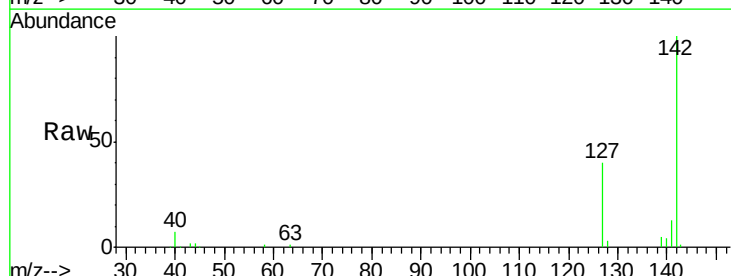
RT: 3.95 min Scan# 678

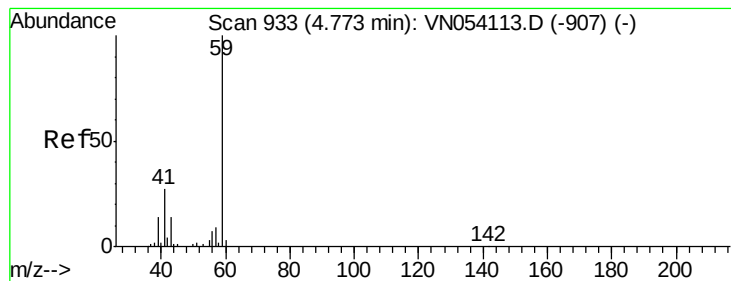
Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	142	Resp:	125381
Ion Ratio	Lower	Upper	
142	100		
127	40.9	31.9	47.9
141	14.4	11.4	17.0





#11

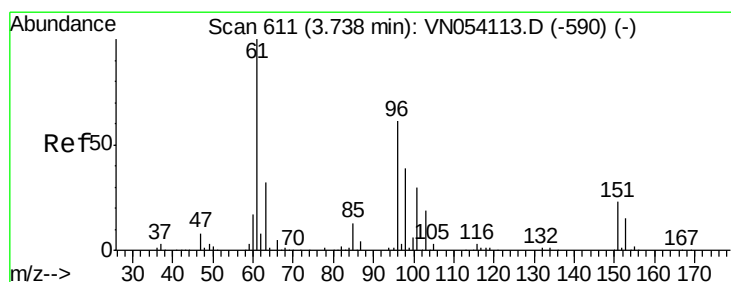
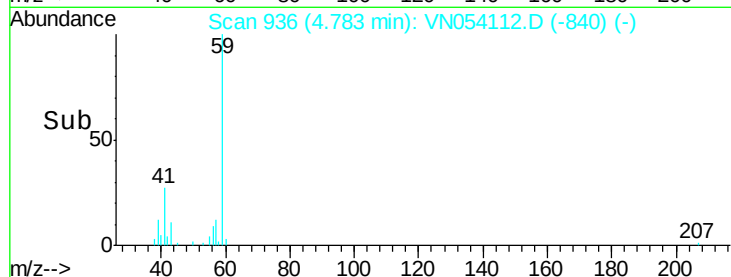
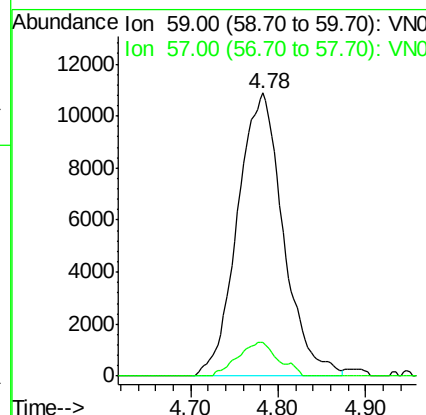
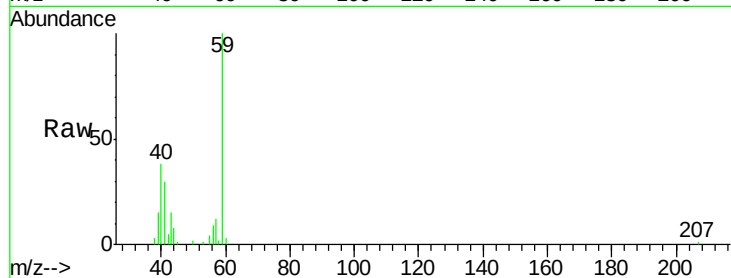
Tert butyl alcohol
Concen: 89.113 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.01 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	59.00	Resp	39519
Ion Ratio	100	Lower	Upper
59	100		
57	9.8	8.2	12.4

Manual Integrations
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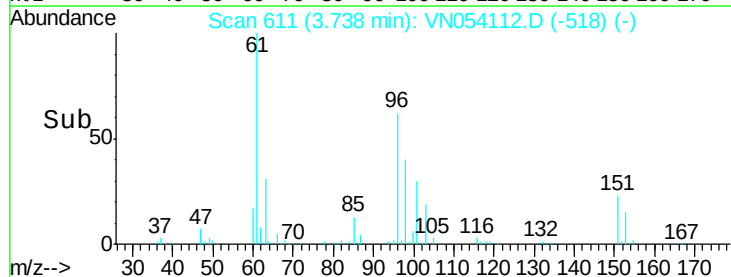
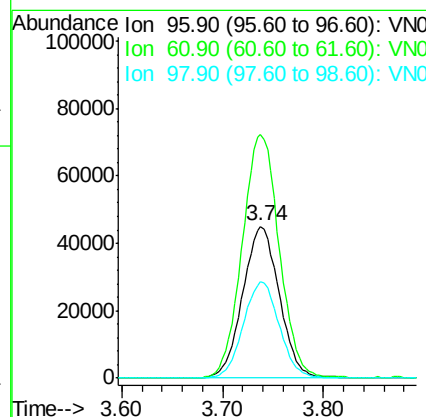
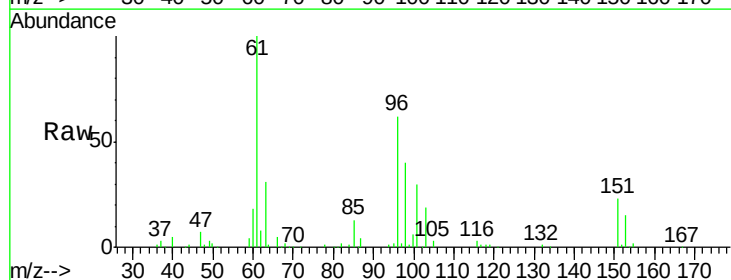
MMDadoda
3/7/2019 11:38:02 AM

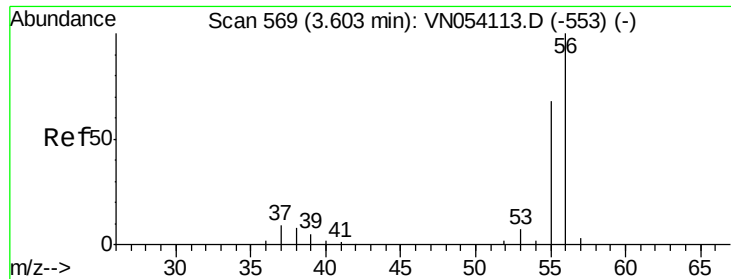


#12

1,1-Dichloroethene
Concen: 19.318 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	96	Resp	113206
Ion Ratio	100	Lower	Upper
96	100		
61	160.4	131.2	196.8
98	63.5	50.7	76.1





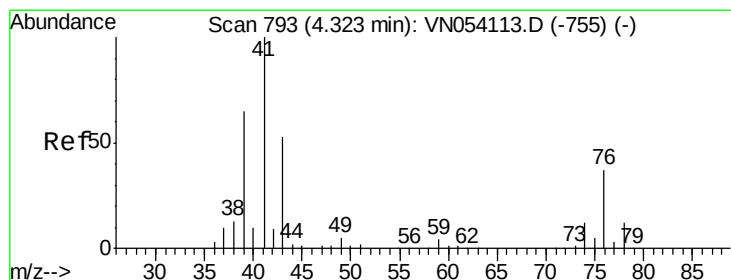
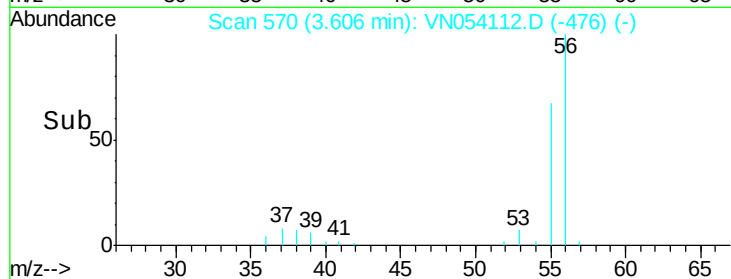
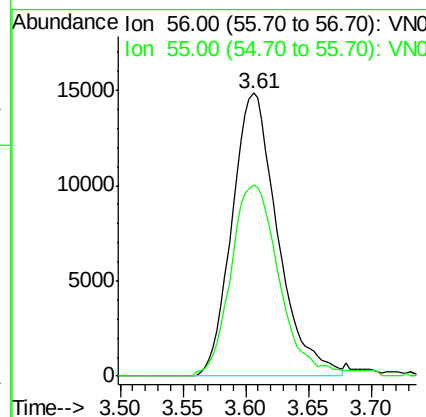
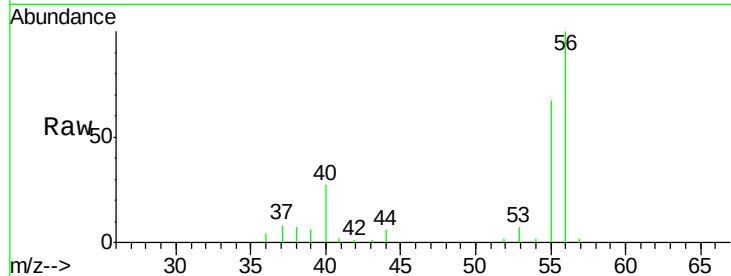
#13
Acrolein
Concen: 96.259 ug/l
RT: 3.61 min Scan# 570
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	56	Resp	37542
Ion Ratio	100	Lower	Upper
56	100		
55	71.3	57.1	85.7

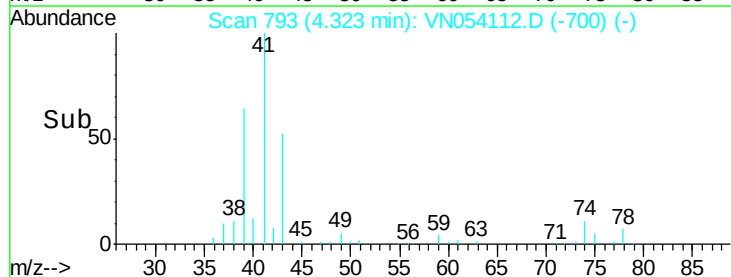
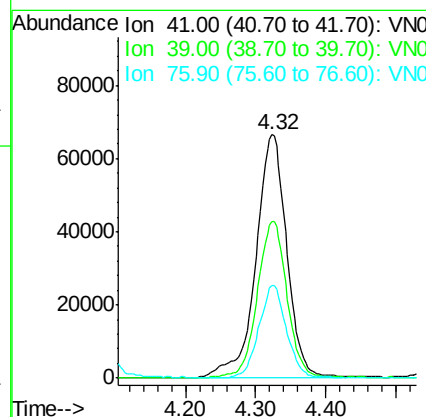
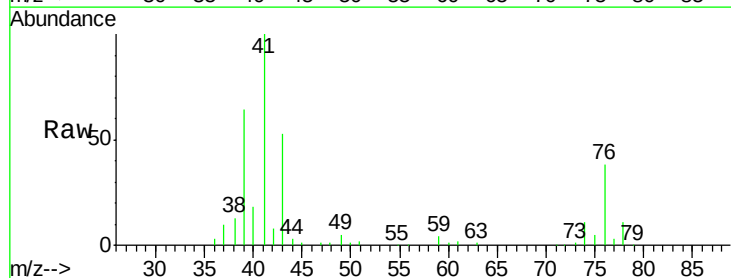
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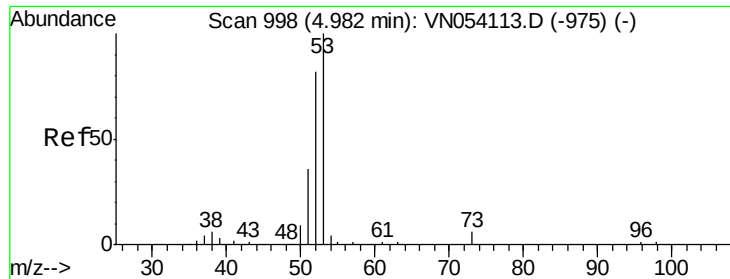
MMDadoda
3/7/2019 11:38:02 AM



#14
Allyl chloride
Concen: 19.344 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	41	Resp	204250
Ion Ratio	100	Lower	Upper
41	100		
39	62.0	49.3	73.9
76	34.1	26.5	39.7





#15

Acrylonitrile

Concen: 91.779 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

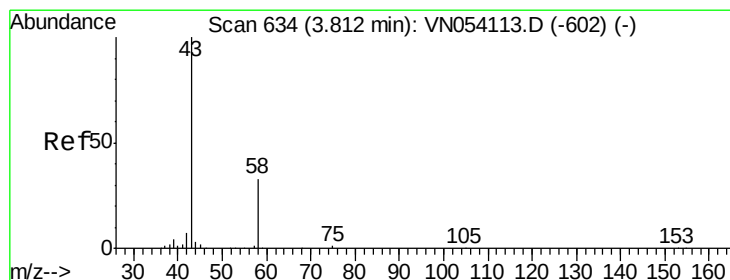
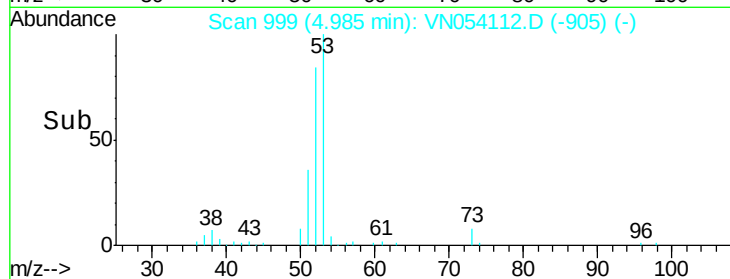
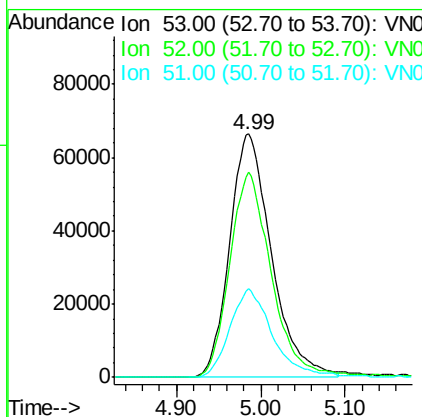
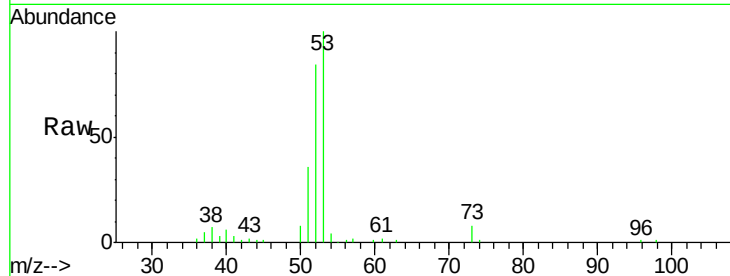
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	229736
Ion	Ratio	Lower	Upper
53	100		
52	83.3	64.6	97.0
51	36.8	28.6	42.8

Manual Integrations
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#16

Acetone

Concen: 94.121 ug/l

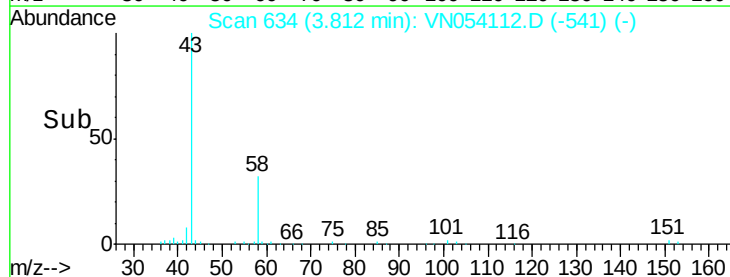
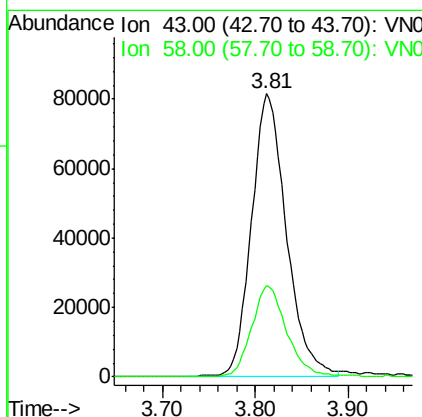
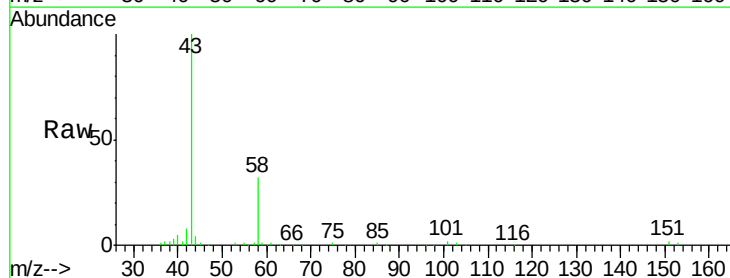
RT: 3.81 min Scan# 634

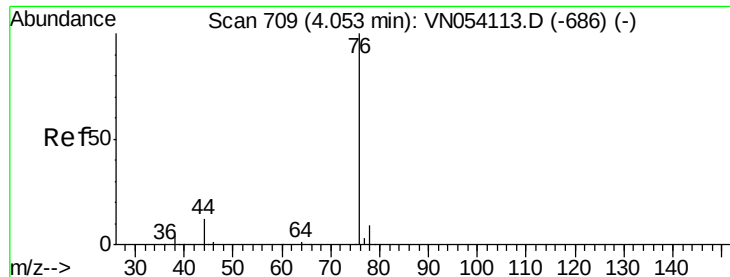
Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	43	Resp:	212269
Ion	Ratio	Lower	Upper
43	100		
58	32.3	26.5	39.7





#17

Carbon Disulfide

Concen: 17.993 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 343918

Ion Ratio Lower Upper

76 100

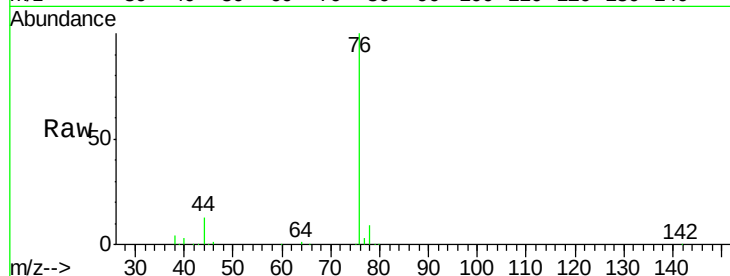
78 8.9 7.3 10.9

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

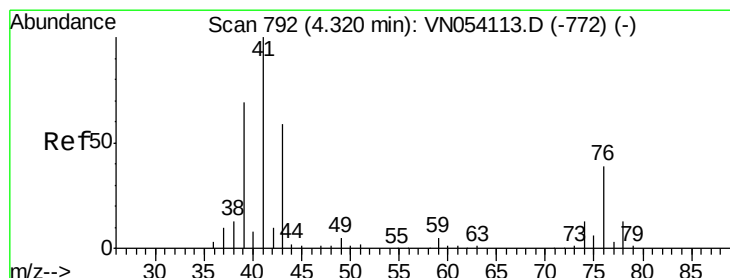
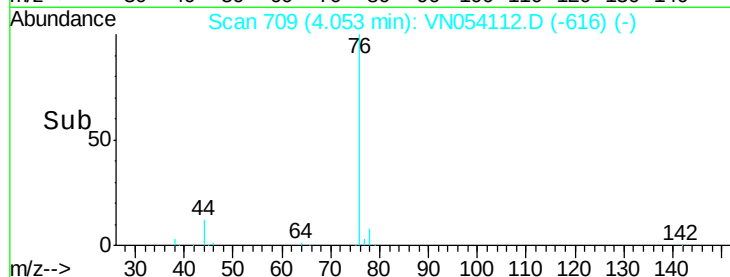
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 17.500 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN054112.D

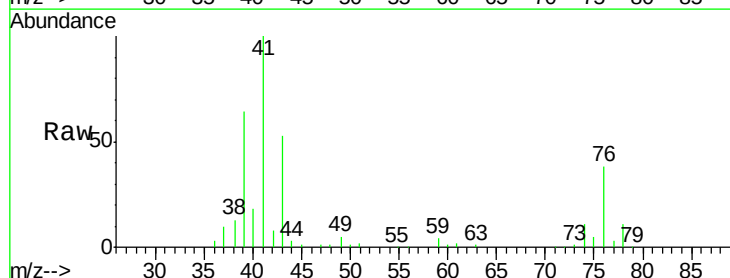
Acq: 6 Mar 2019 11:02

Tgt Ion: 43 Resp: 100622

Ion Ratio Lower Upper

43 100

74 22.2 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

40000

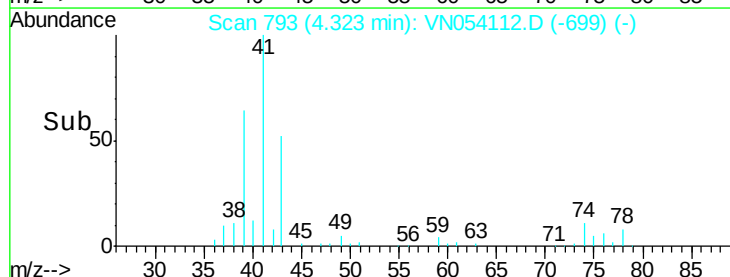
30000

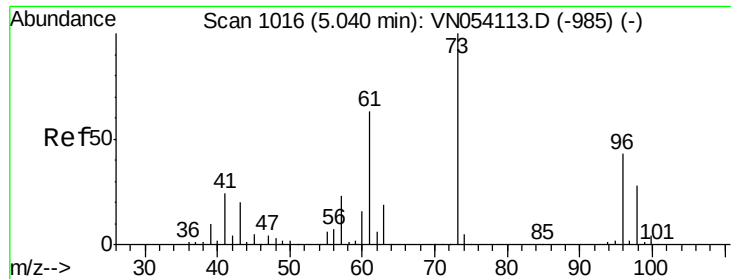
20000

10000

0

Time-->





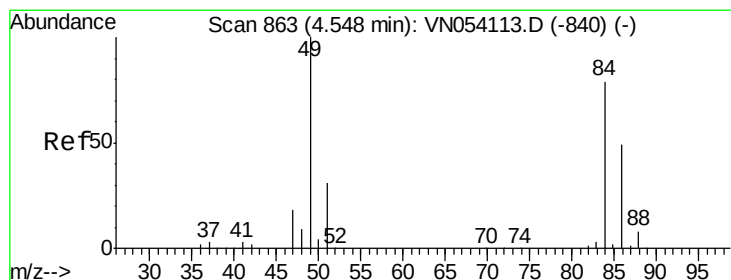
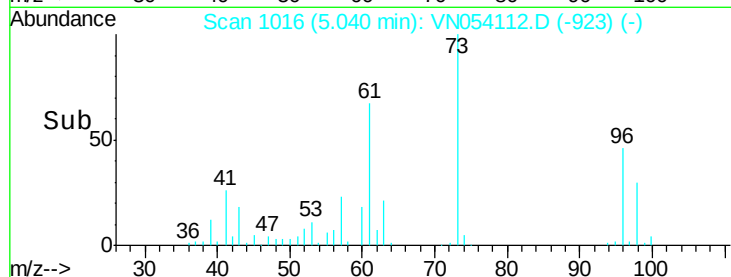
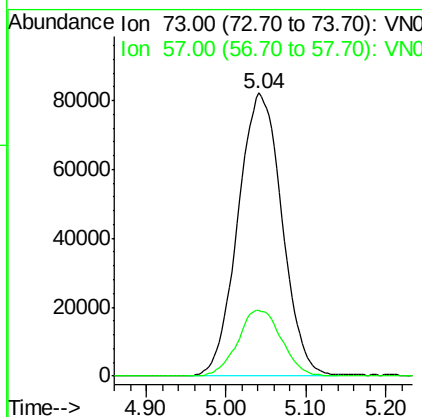
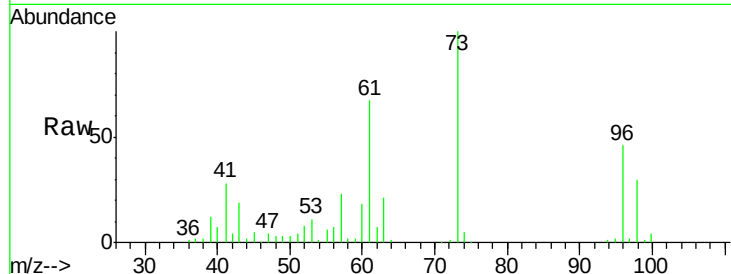
#19
Methyl tert-butyl Ether
Concen: 18.780 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 308853
Ion Ratio Lower Upper
73 100
57 23.0 18.2 27.4

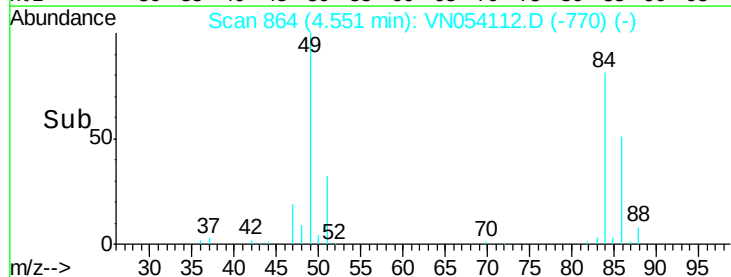
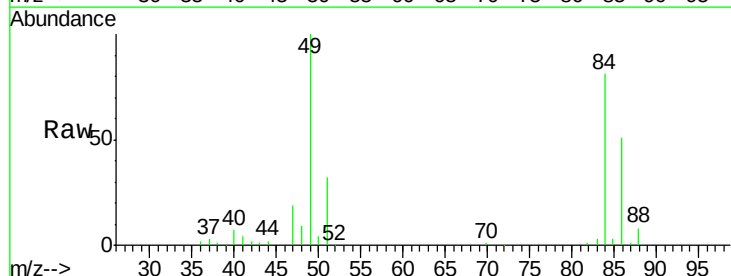
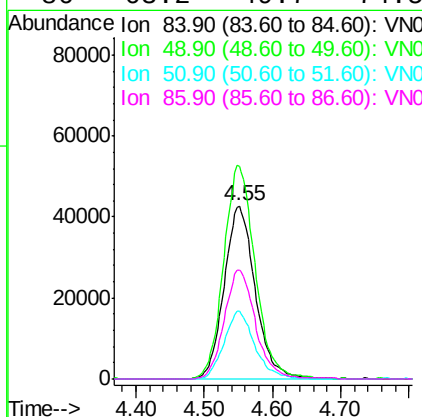
Manual Integrations
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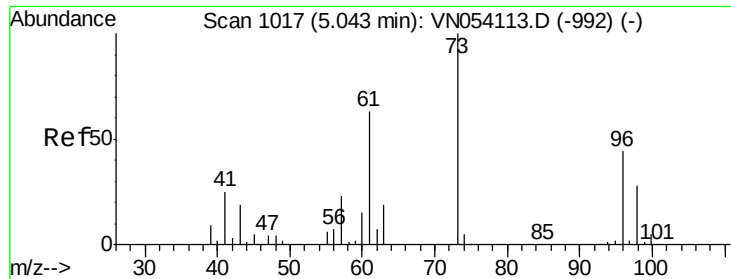
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#20
Methylene Chloride
Concen: 18.909 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion: 84 Resp: 135509
Ion Ratio Lower Upper
84 100
49 123.0 101.8 152.8
51 39.0 31.1 46.7
86 63.2 49.7 74.5





#21

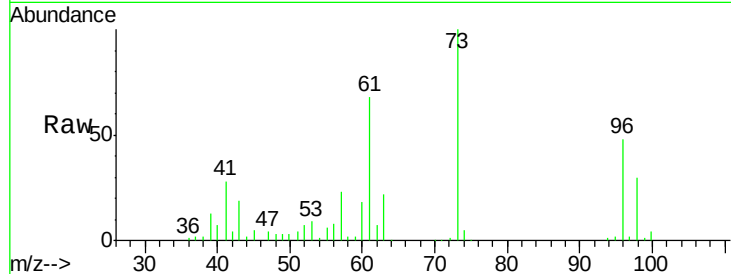
trans-1,2-Dichloroethene
Concen: 18.973 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

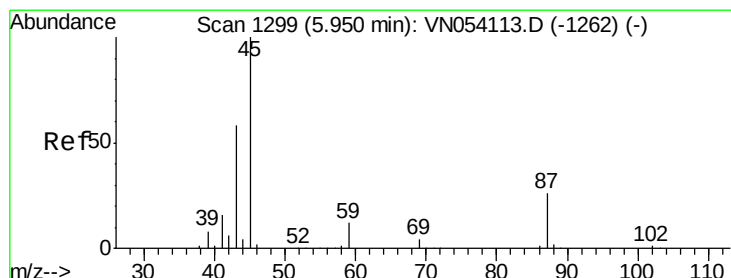
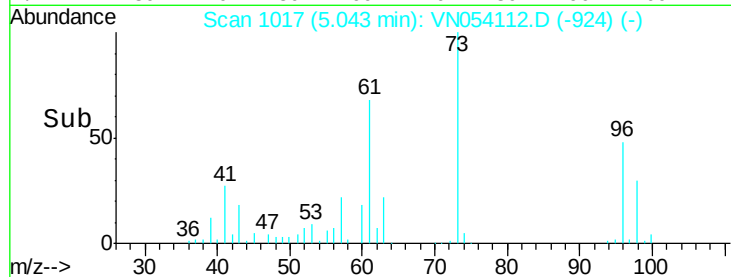
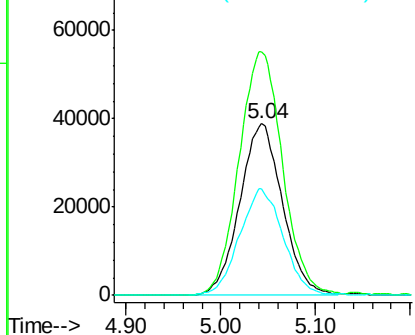
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.9	114.8	172.2
98	62.0	51.4	77.0

Manual Integrations
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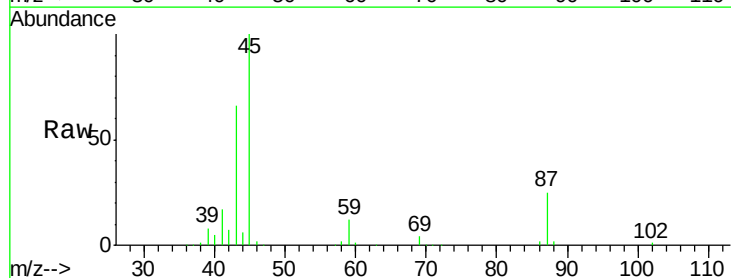
Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



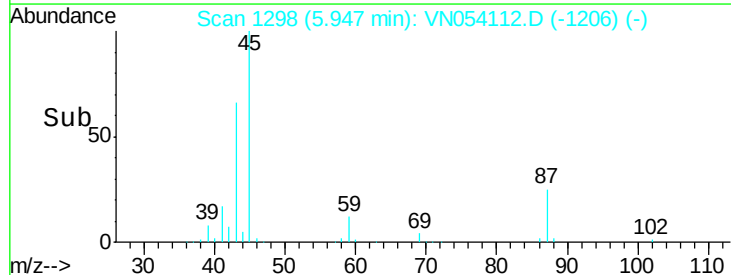
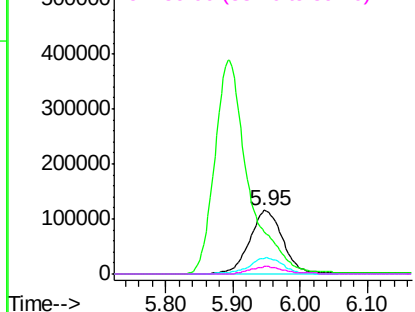
#22

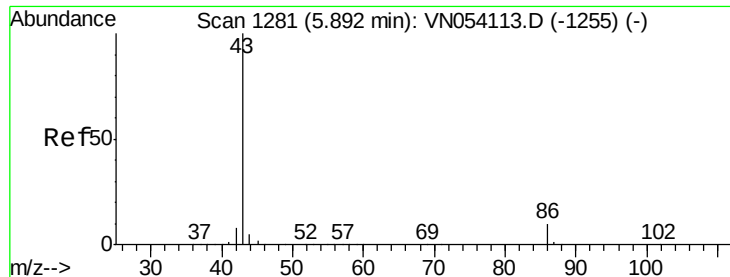
Diisopropyl ether
Concen: 19.504 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.8	46.2	69.4
87	24.3	20.6	31.0
59	11.2	9.4	14.0



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





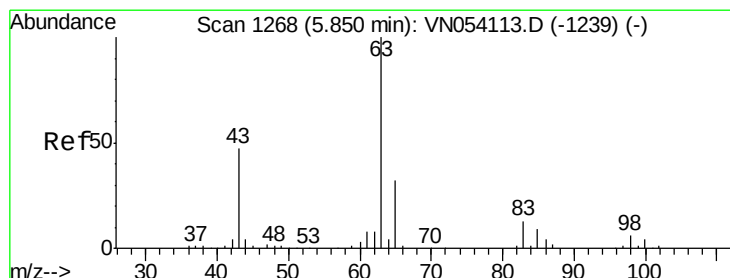
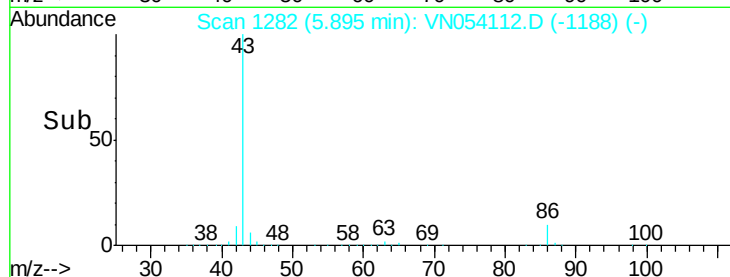
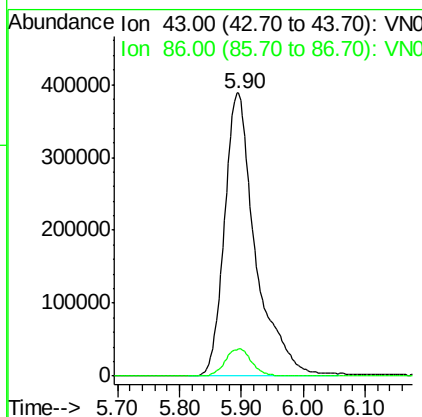
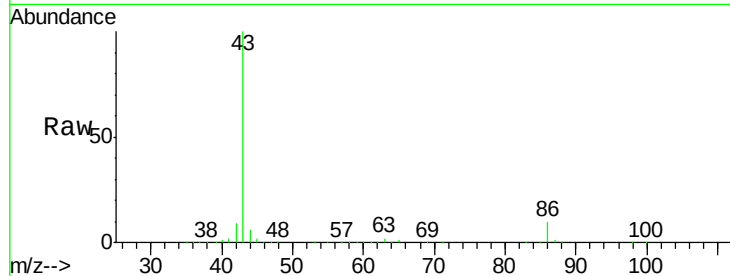
#23
 Vinyl Acetate
 Concen: 92.874 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion: 43 Resp: 1357254
 Ion Ratio Lower Upper
 43 100
 86 9.5 7.8 11.8

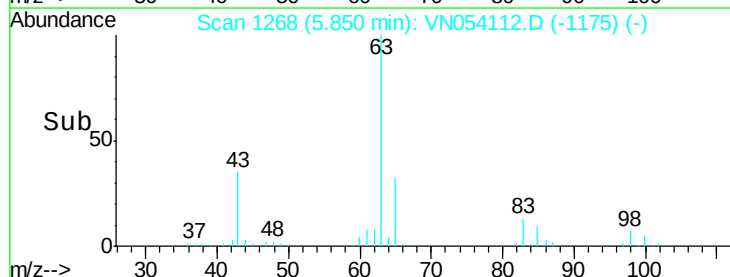
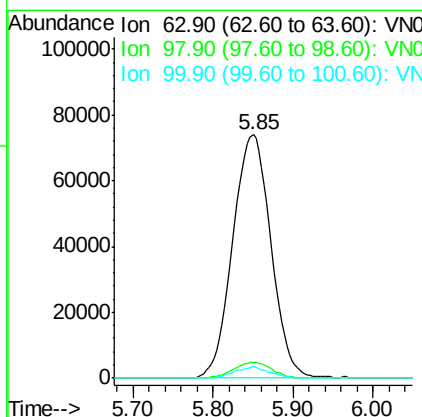
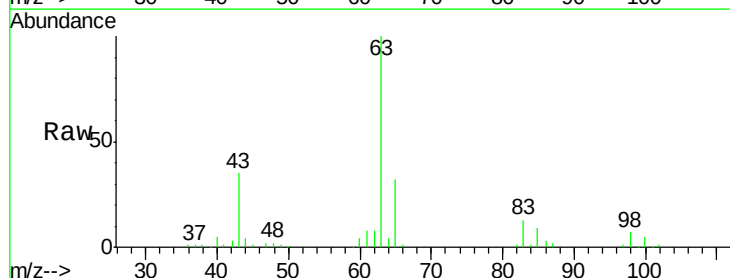
Manual Integrations
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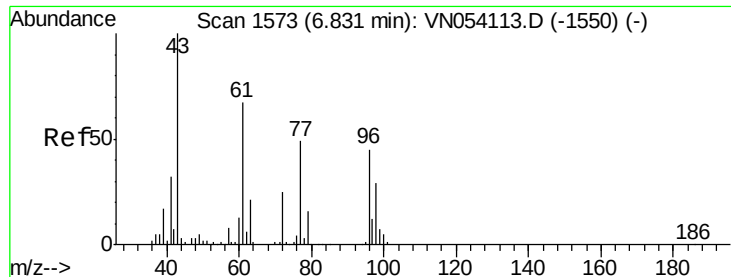
MMDadoda
 3/7/2019 11:38:02 AM



#24
 1,1-Dichloroethane
 Concen: 19.468 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion: 63 Resp: 239633
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.1 9.4
 100 4.6 2.0 6.0





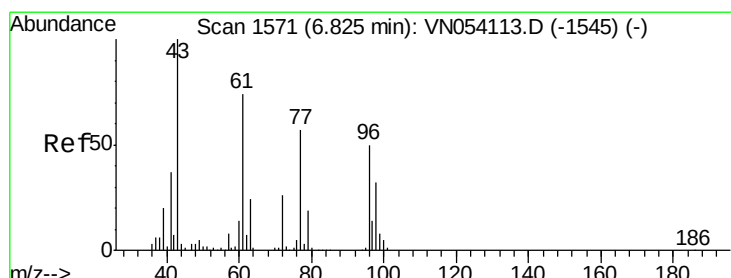
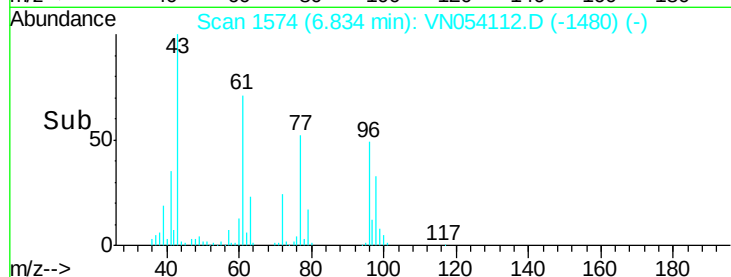
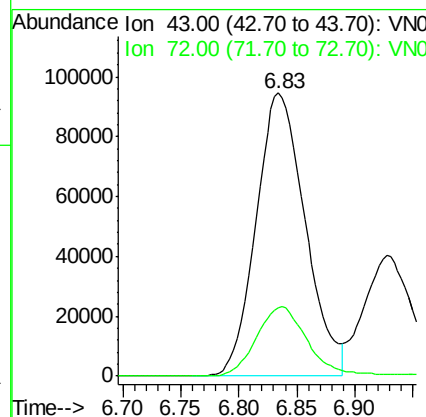
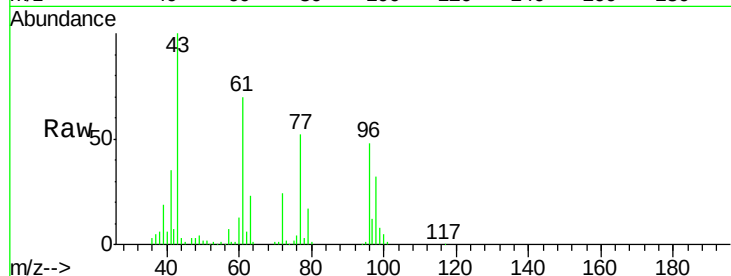
#25
2-Butanone
Concen: 92.982 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 277746
Ion Ratio Lower Upper
43 100
72 24.1 20.2 30.2

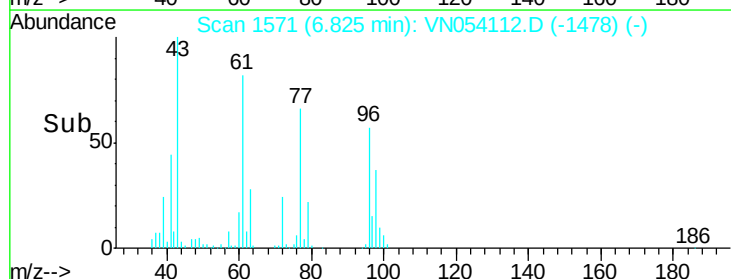
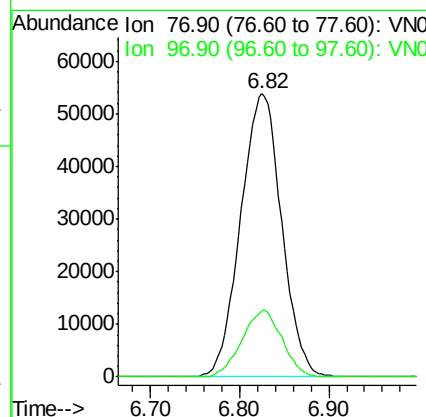
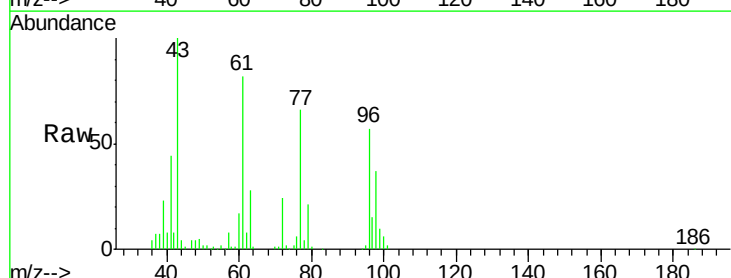
Manual Integrations
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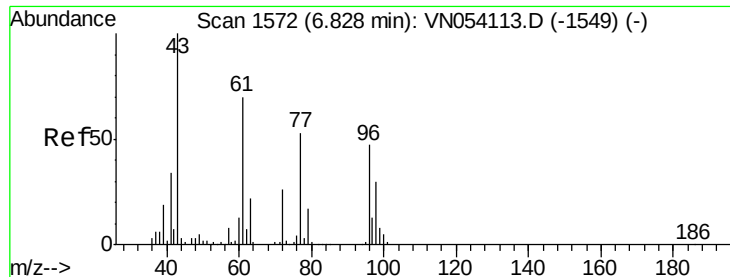
MMDadoda
3/7/2019 11:38:02 AM



#26
2,2-Dichloropropane
Concen: 19.366 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion: 77 Resp: 171813
Ion Ratio Lower Upper
77 100
97 23.1 11.8 35.3





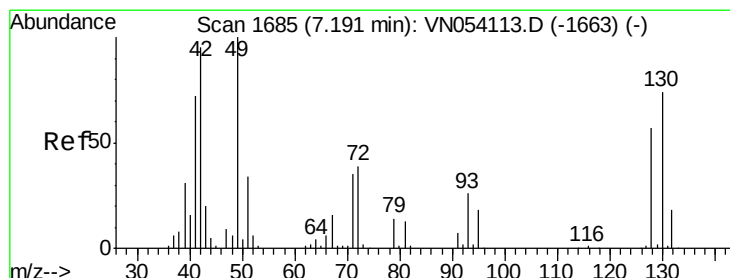
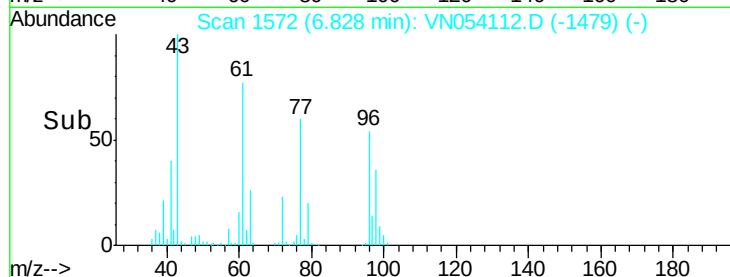
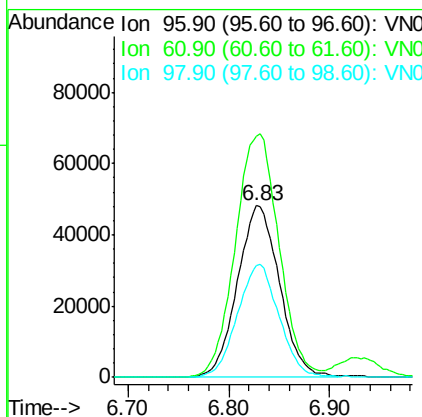
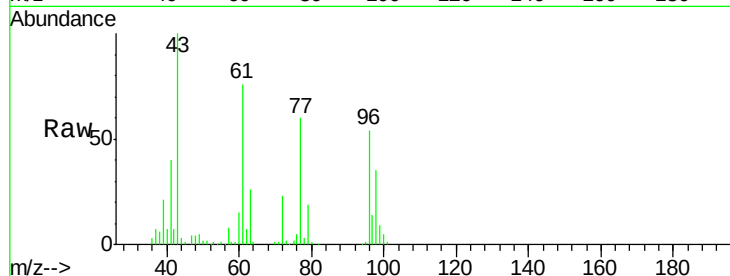
#27
 cis-1,2-Dichloroethene
 Concen: 19.472 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	139686		
61	147.0	0.0	297.0	
98	64.9	0.0	129.4	

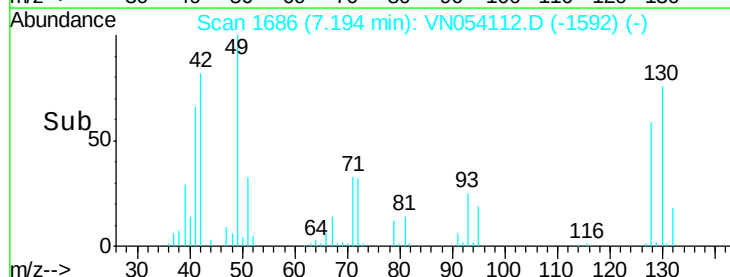
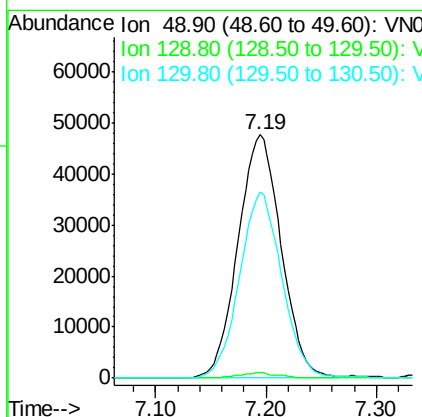
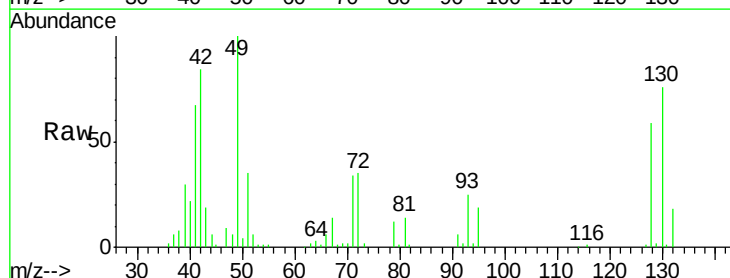
Manual Integrations
 APPROVED

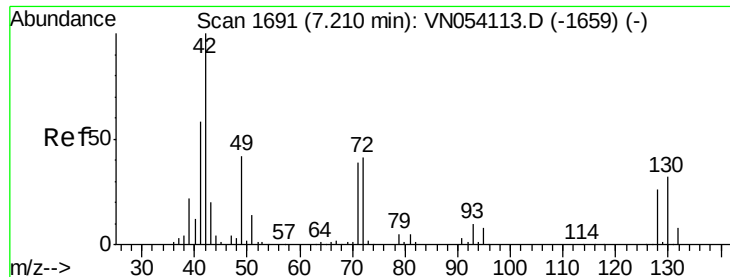
MMDadoda
 3/7/2019 11:38:02 AM



#28
 Bromochloromethane
 Concen: 21.011 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	129082		
129	2.0	0.0	3.8	
130	74.9	59.4	89.2	





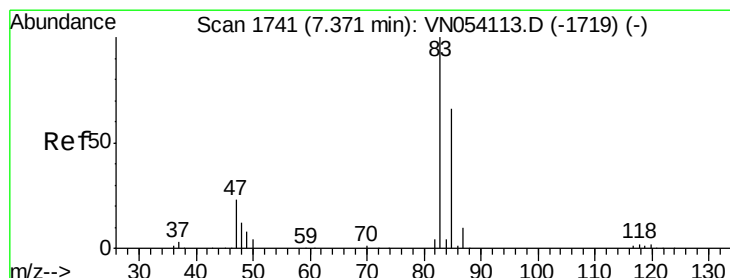
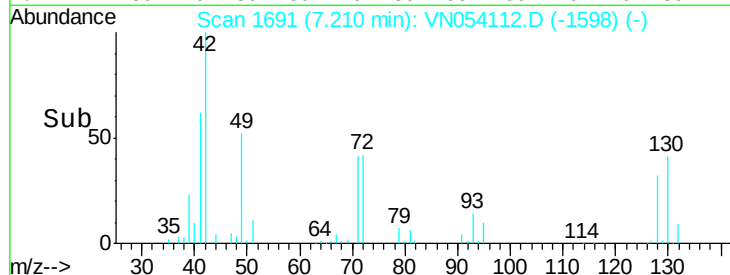
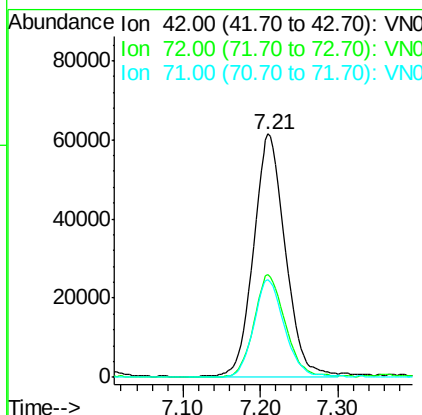
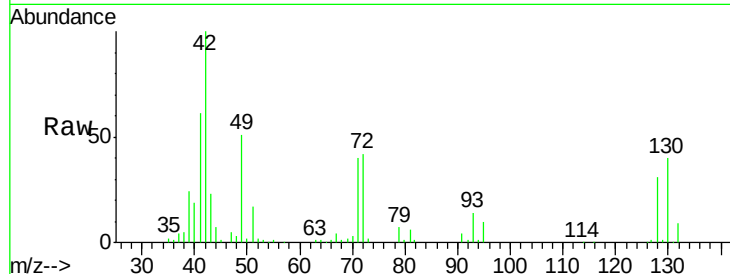
#29
Tetrahydrofuran
Concen: 89.412 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	32.8	49.2
71	39.0	30.5	45.7

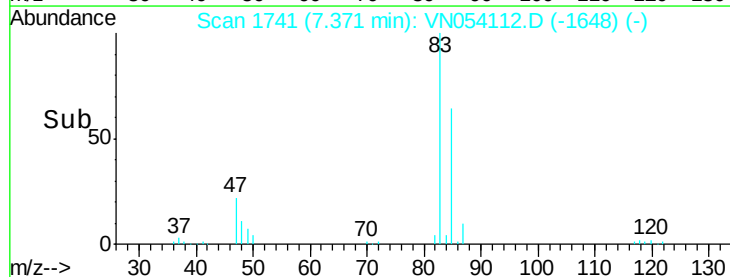
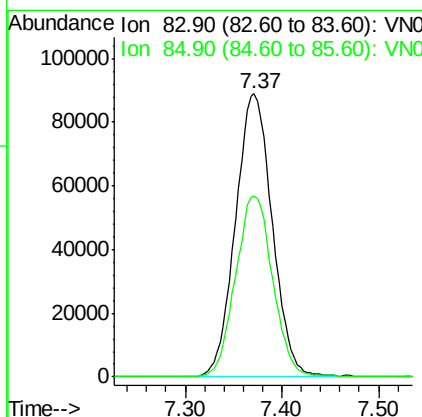
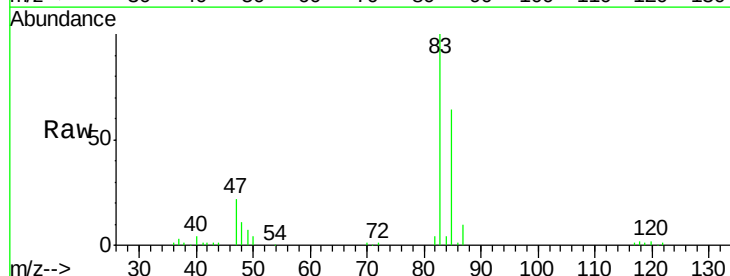
Manual Integrations
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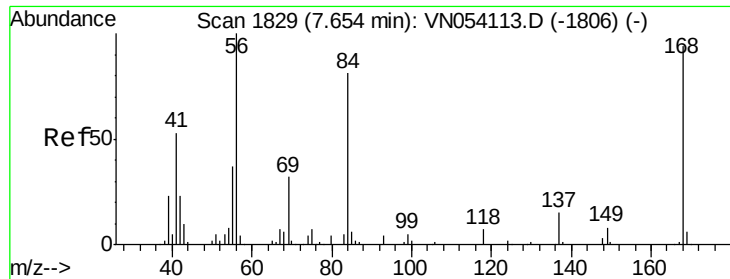
MMDadoda
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#30
Chloroform
Concen: 19.894 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.1	79.7





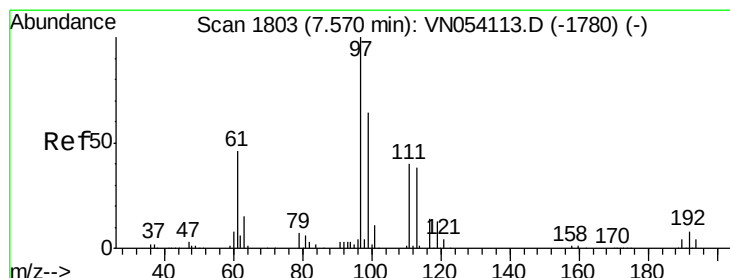
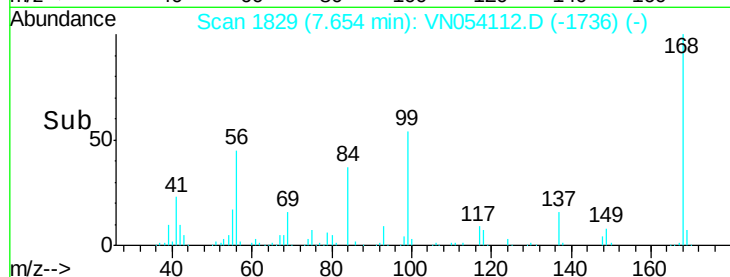
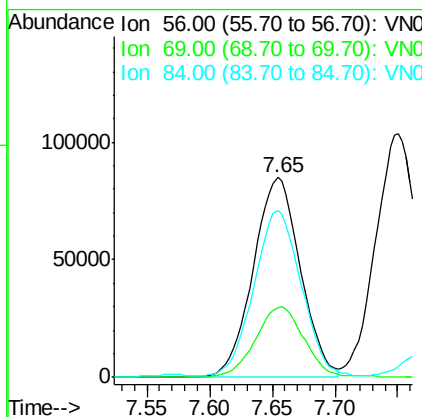
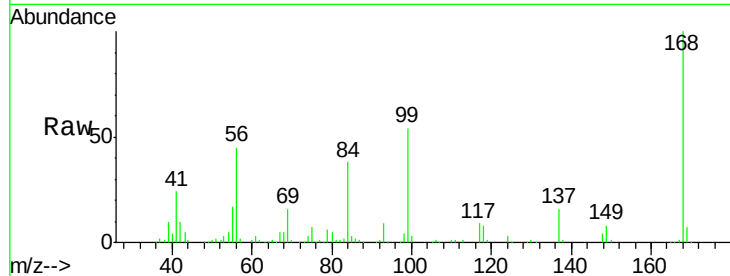
#31
Cyclohexane
Concen: 16.630 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	56	Resp	222245
Ion Ratio	Lower	Upper	
56	100		
69	34.7	25.5	38.3
84	82.8	64.5	96.7

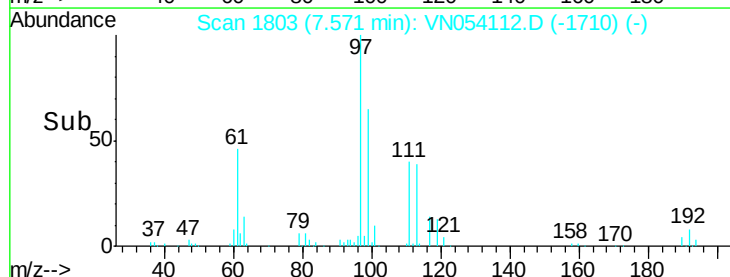
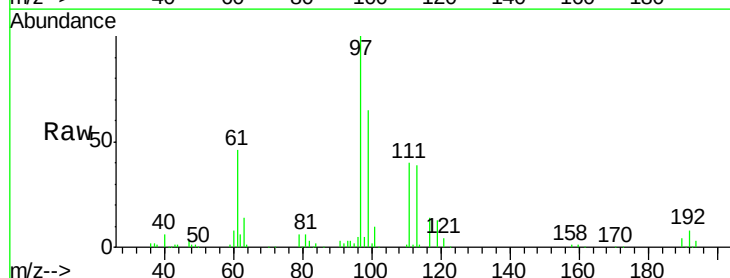
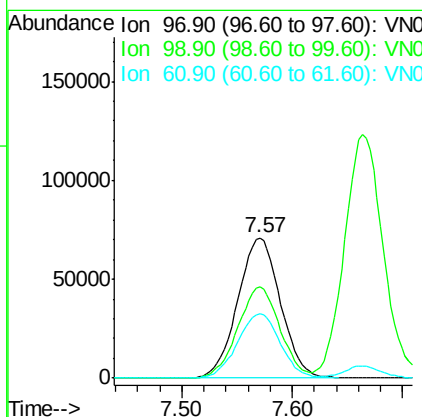
Manual Integrations
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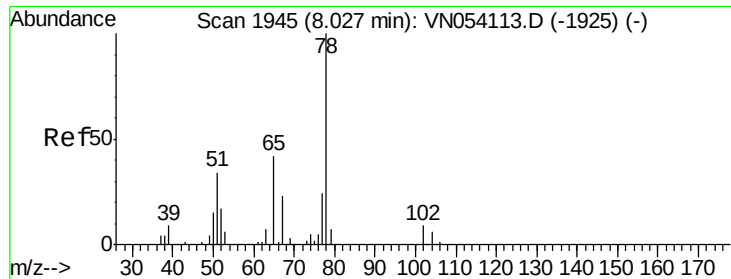
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.440 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	97	Resp	190094
Ion Ratio	Lower	Upper	
97	100		
99	64.0	51.2	76.8
61	46.0	37.1	55.7





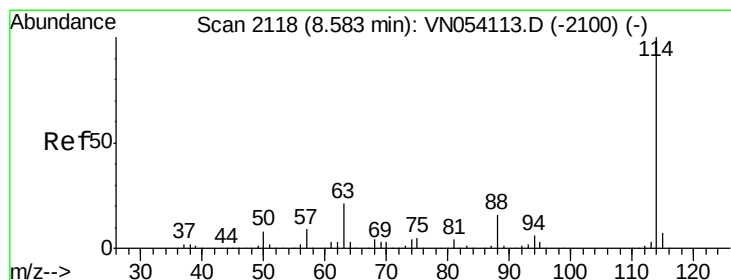
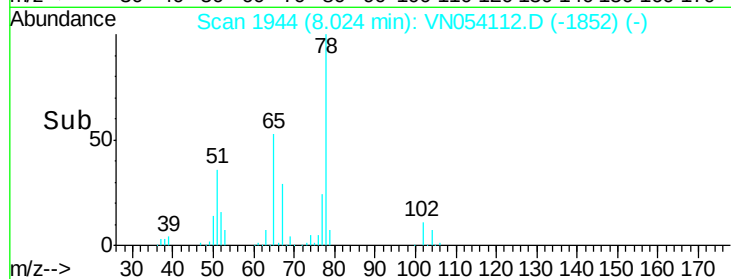
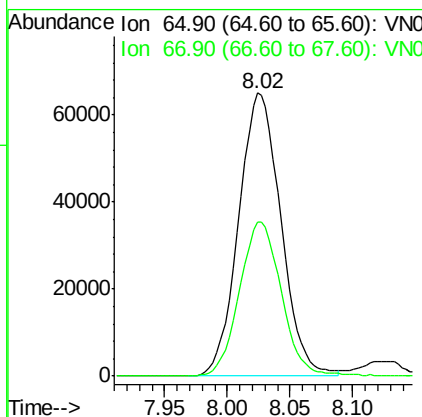
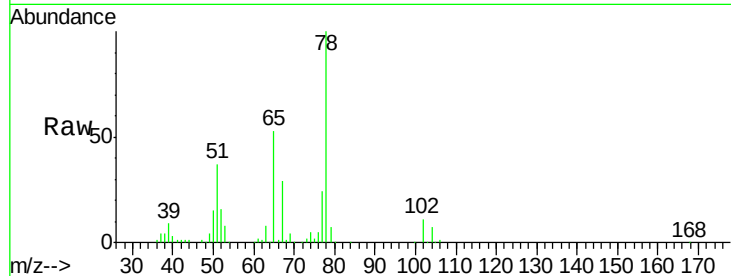
#33
 1,2-Dichloroethane-d4
 Concen: 20.944 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	152671		
67	54.2	0.0	109.6	

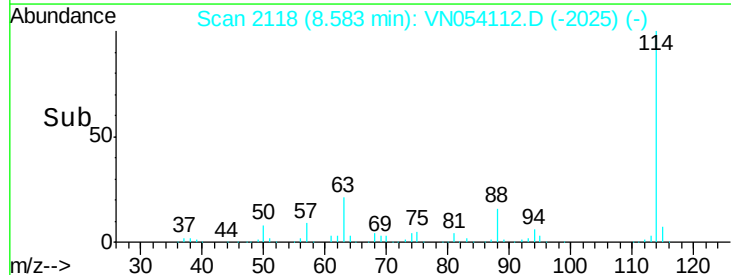
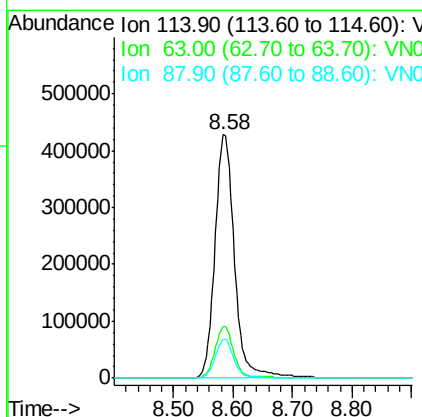
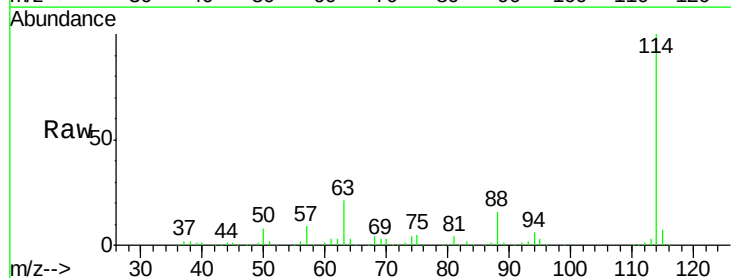
Manual Integrations
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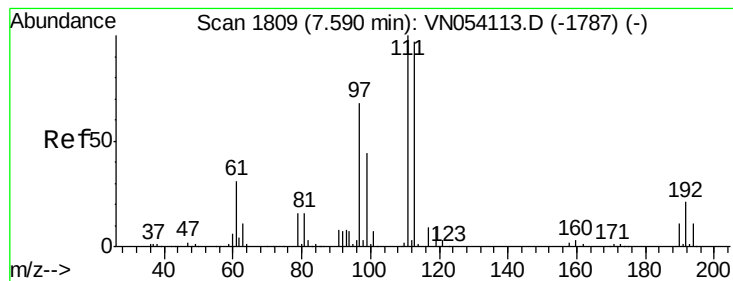
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	977232		
63	21.2	0.0	42.6	
88	15.8	0.0	31.8	





#35

Dibromofluoromethane

Concen: 21.194 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

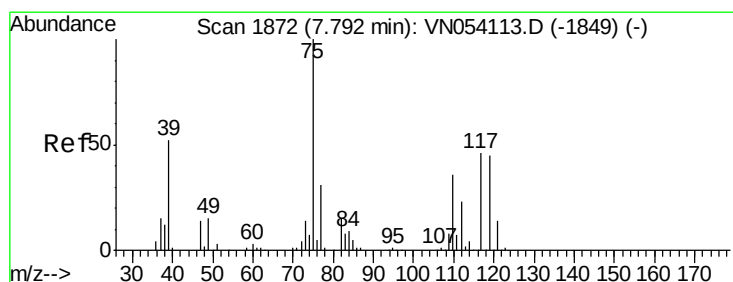
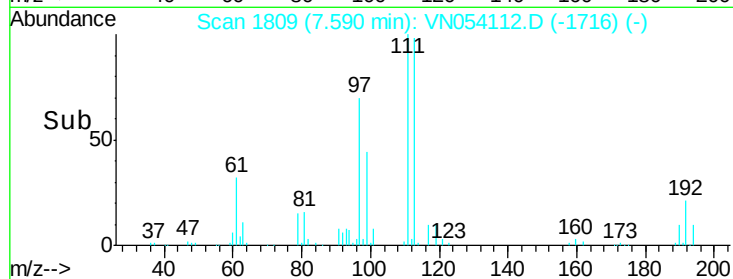
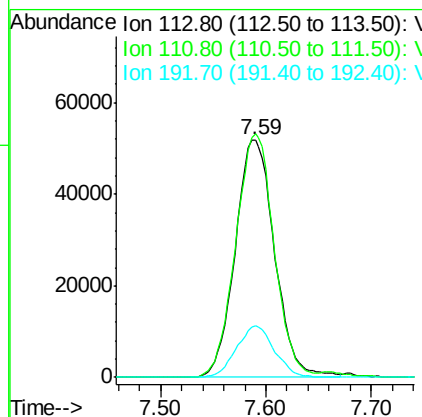
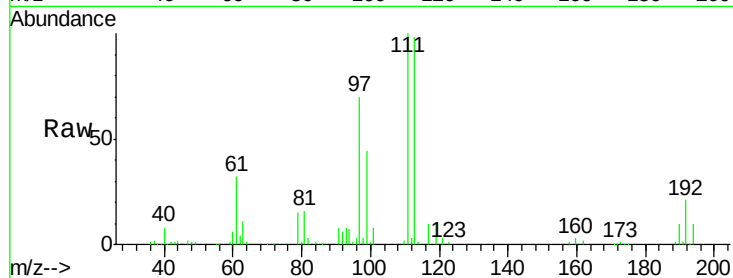
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	134516
Ion Ratio	Lower	Upper	
113	100		
111	100.1	82.1	123.1
192	20.8	17.4	26.0

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 18.552 ug/l

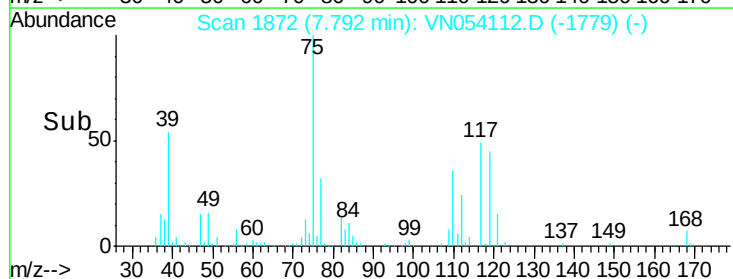
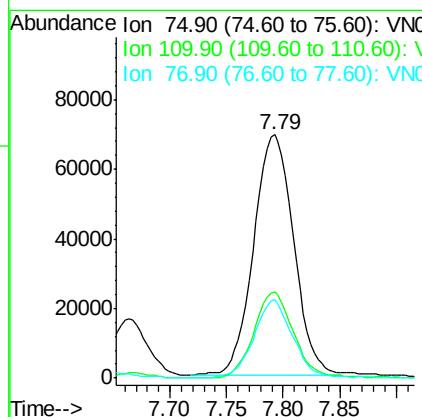
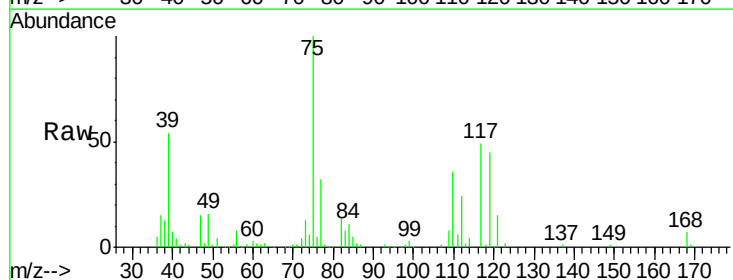
RT: 7.79 min Scan# 1872

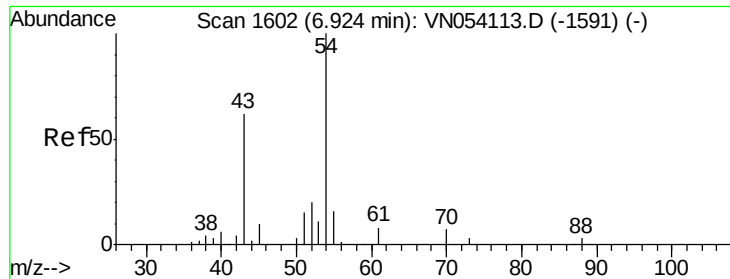
Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	75	Resp:	170168
Ion Ratio	Lower	Upper	
75	100		
110	35.8	18.0	54.0
77	31.6	25.3	37.9





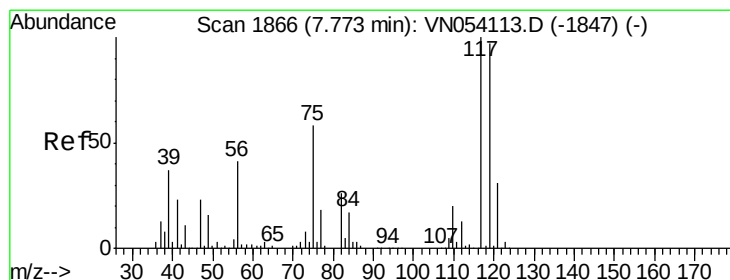
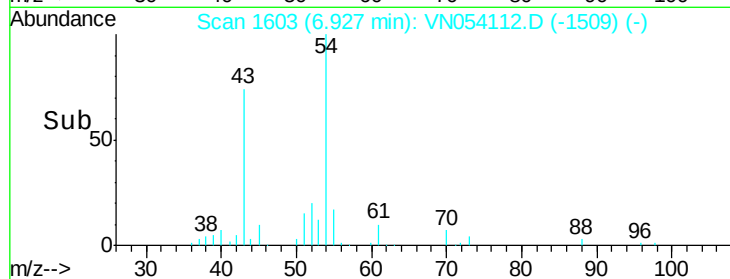
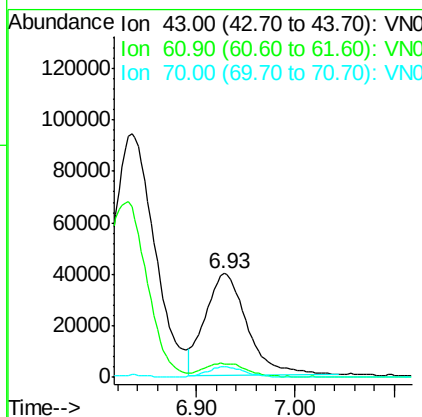
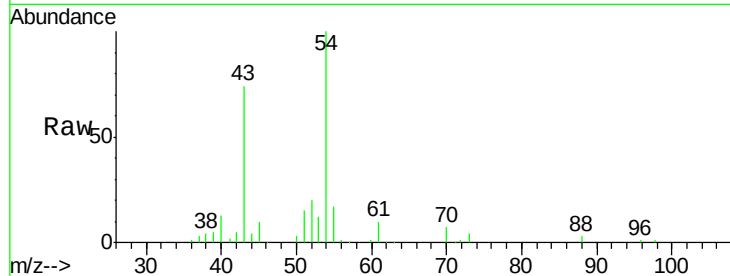
#37
Ethyl Acetate
Concen: 17.905 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	43	61	70
Resp	117744		
Ratio	100	13.6	9.5
Lower		11.1	7.6
Upper		16.7	11.4

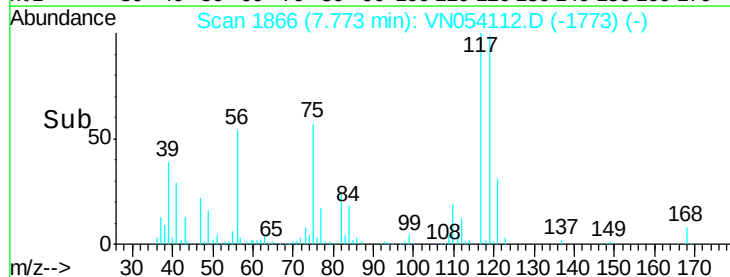
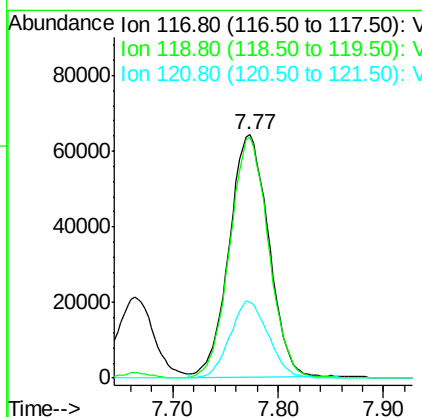
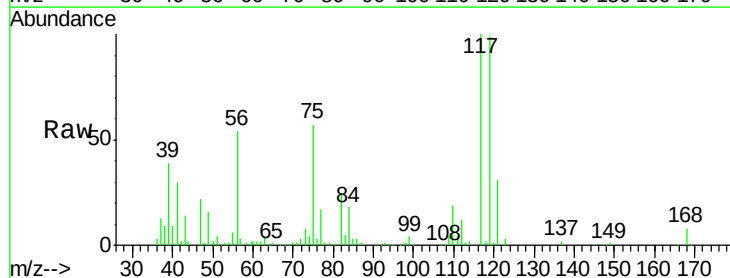
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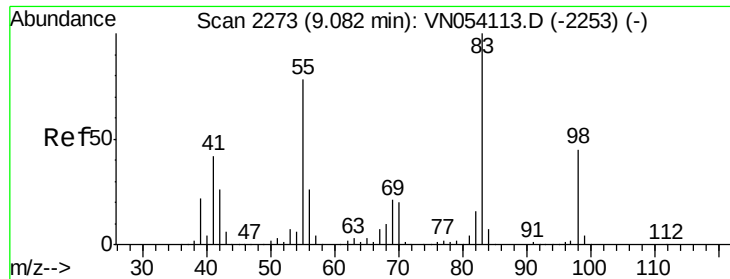
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#38
Carbon Tetrachloride
Concen: 19.102 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	117	119	121
Resp	167267		
Ratio	100	99.1	31.5
Lower		77.0	24.3
Upper		115.6	36.5





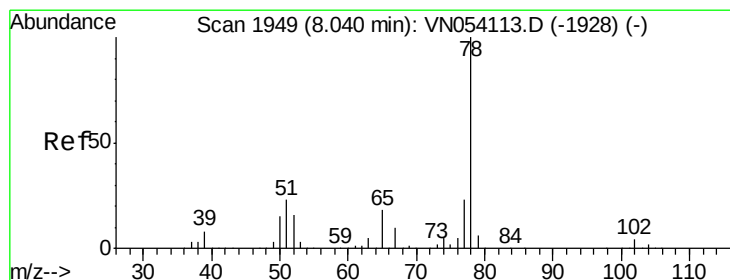
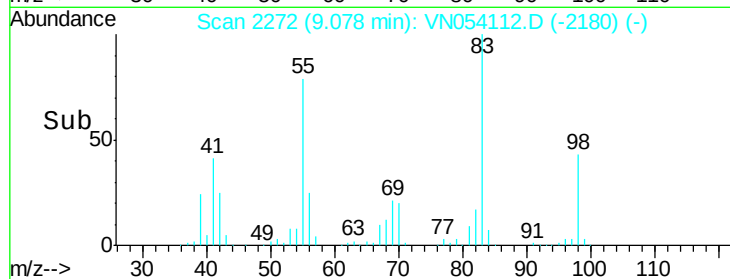
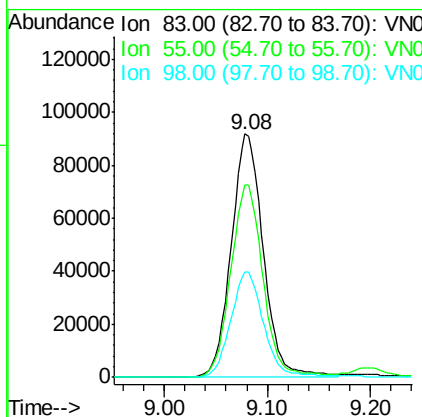
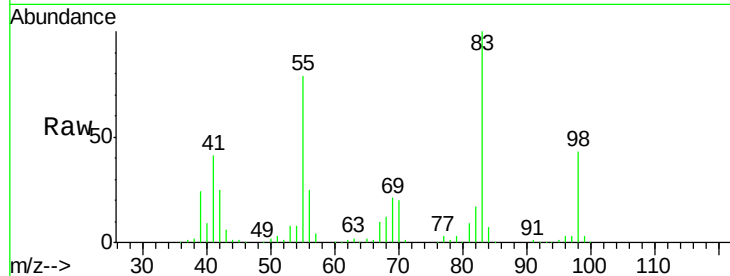
#39
Methylvlcyclohexane
Concen: 18.870 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	199755		
55	78.9		62.1	93.1
98	43.4		36.0	54.0

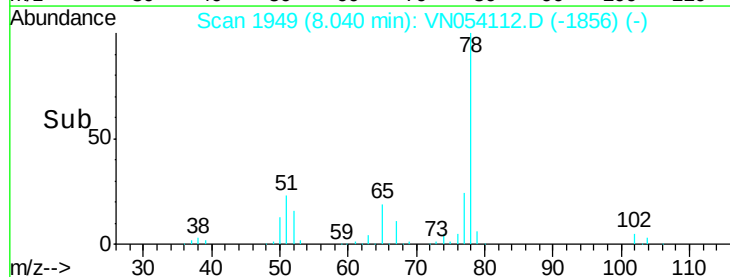
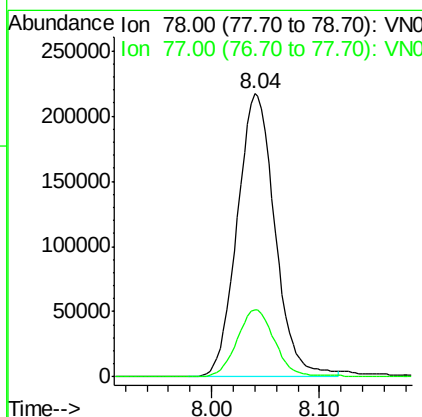
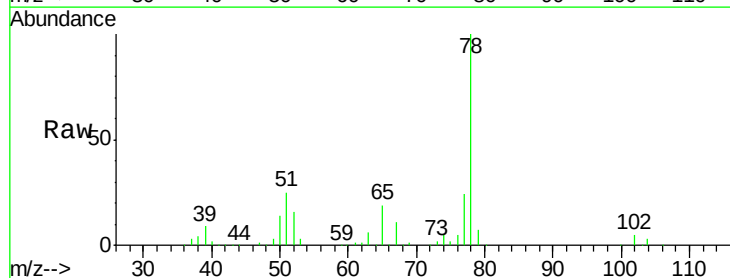
Manual Integrations
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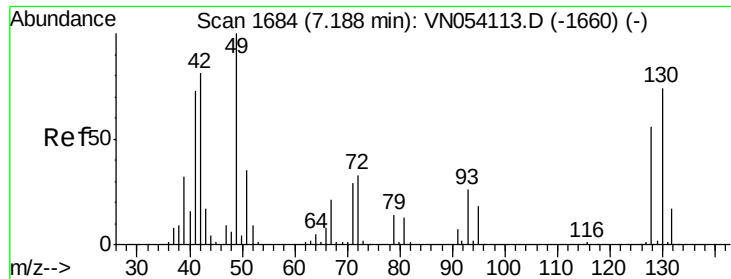
MMDadoda
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#40
Benzene
Concen: 19.514 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	529551		
77	23.9		18.7	28.1





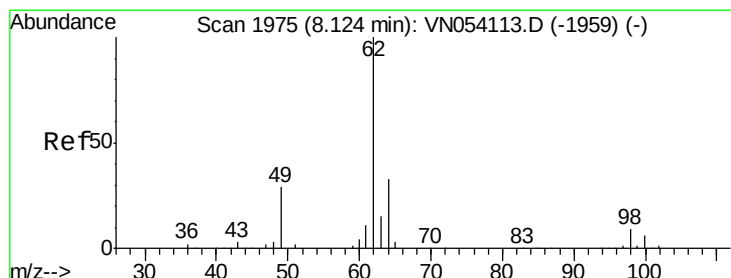
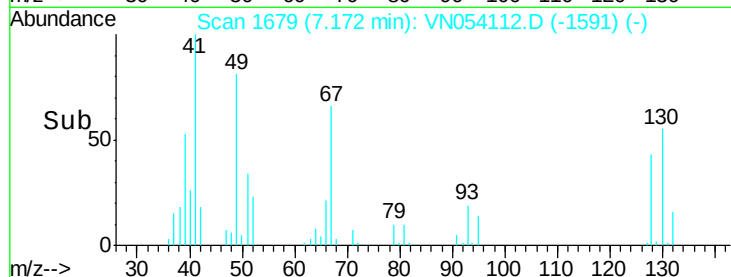
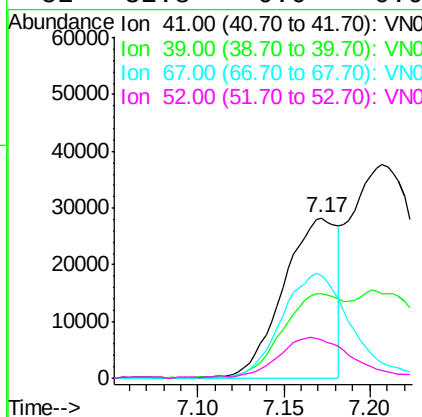
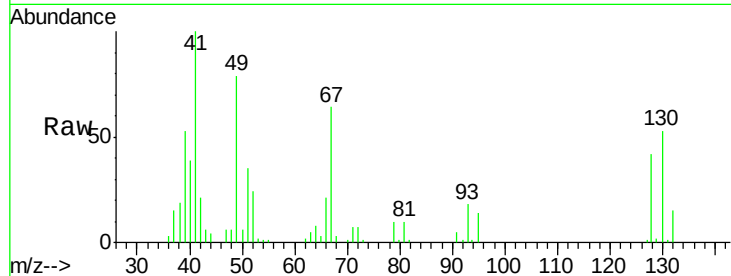
#41
Methacrylonitrile
Concen: 15.352 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.4	0.0	0.0#
67	86.2	0.0	0.0#
52	32.8	0.0	0.0#

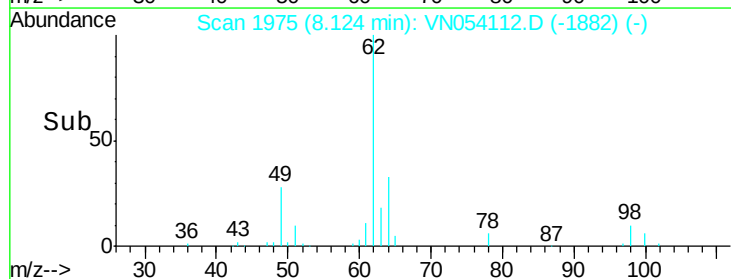
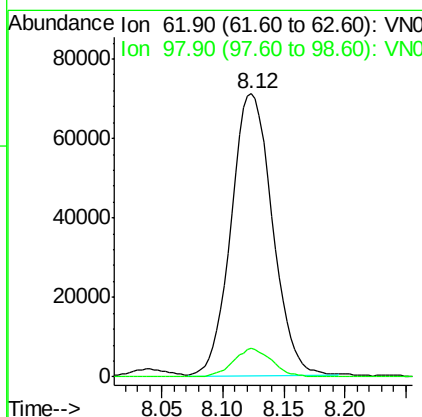
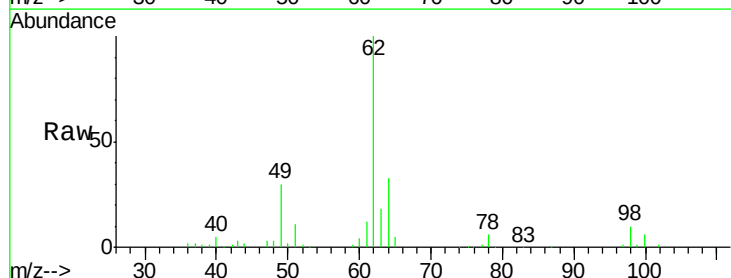
Manual Integrations
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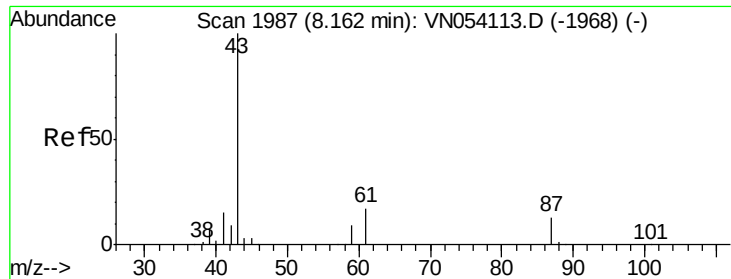
MMDadoda
3/7/2019 11:38:02 AM



#42
1,2-Dichloroethane
Concen: 19.313 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.6





#43

Isopropyl Acetate

Concen: 19.082 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

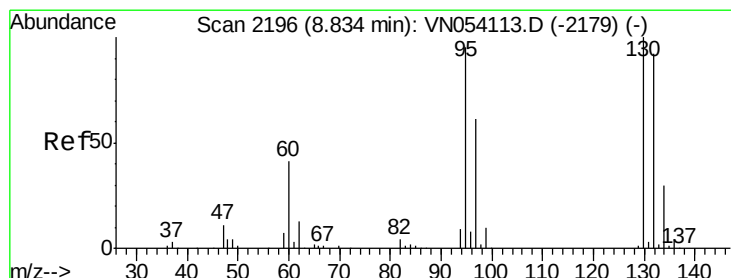
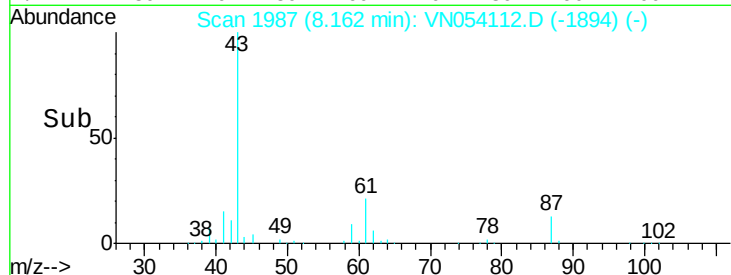
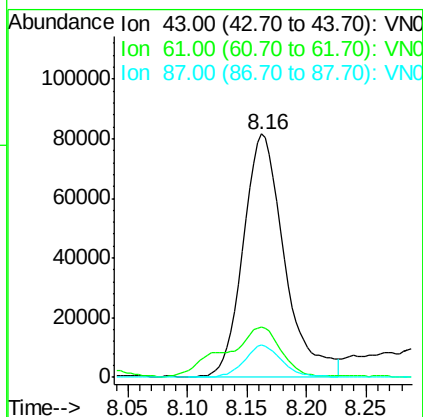
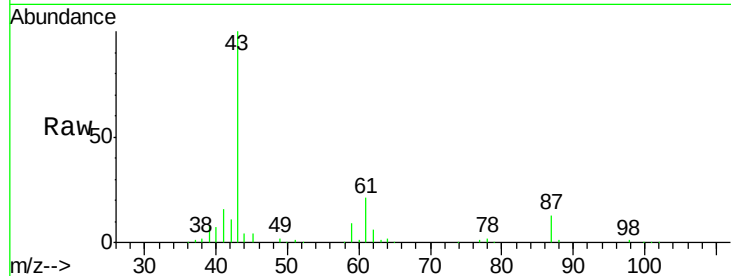
ClientSampled :

VSTDIC020

Tot Ion:	43	Resp:	195033
Ion	Ratio	Lower	Upper
43	100		
61	27.5	22.5	33.7
87	12.0	10.1	15.1

Manual Integrations
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#44

Trichloroethene

Concen: 19.533 ug/l

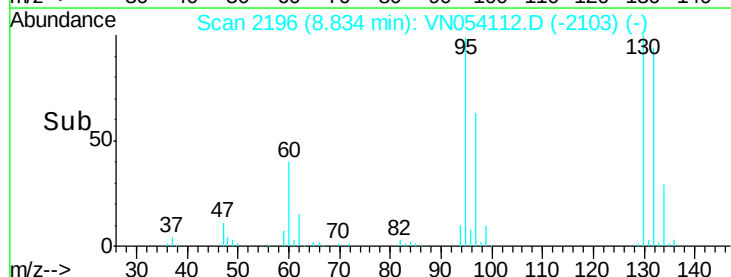
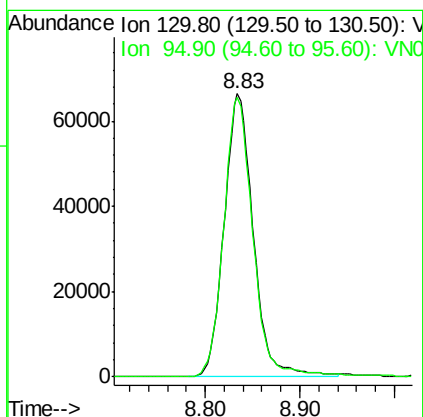
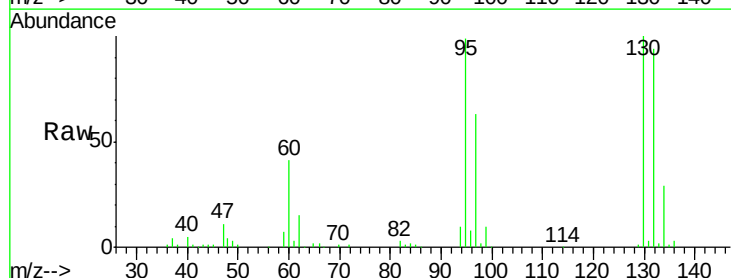
RT: 8.83 min Scan# 2196

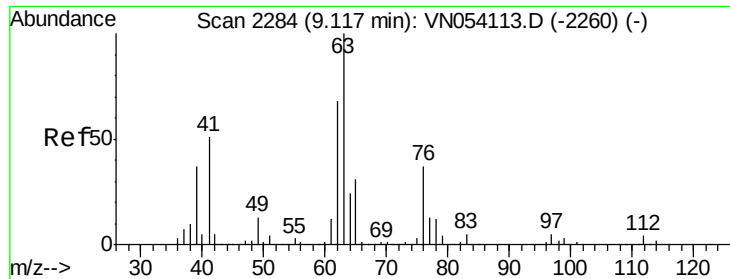
Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	130	Resp:	142136
Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	189.4





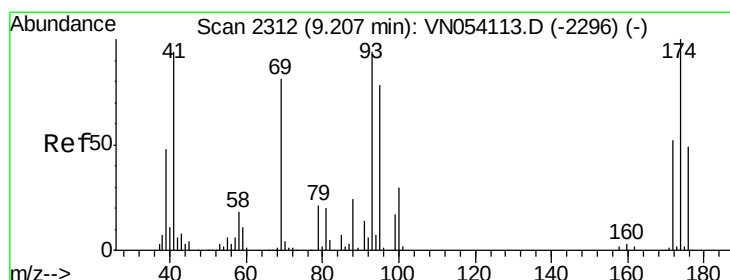
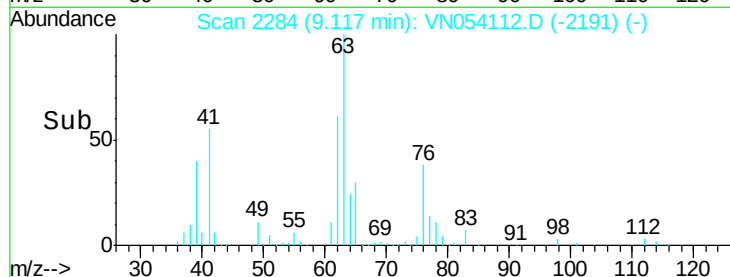
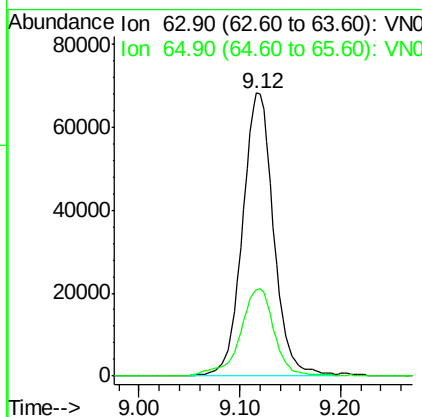
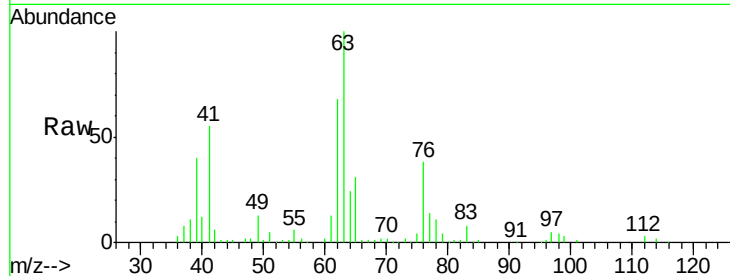
#45
 1,2-Dichloropropane
 Concen: 19.403 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 145232
 Ion Ratio Lower Upper
 63 100
 65 30.2 24.6 36.8

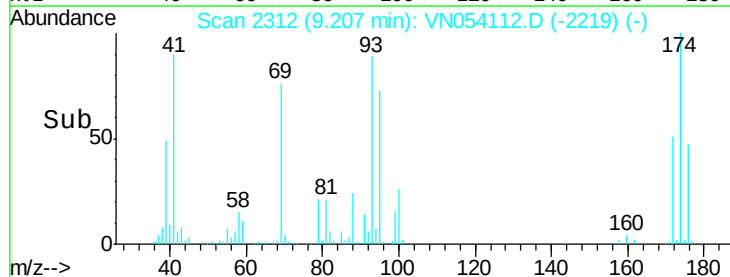
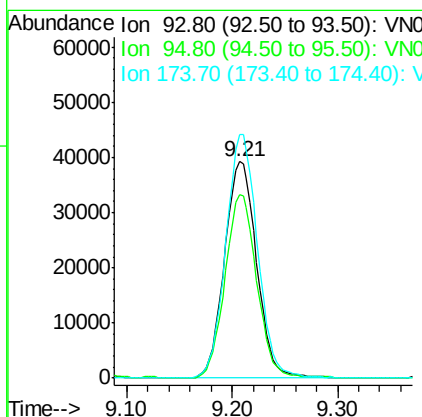
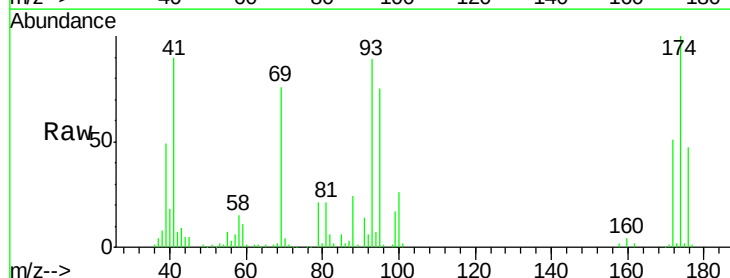
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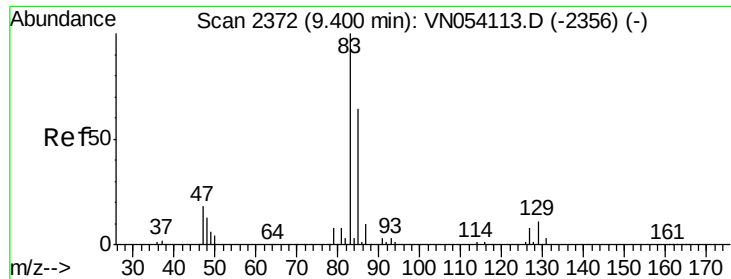
MMDadoda
 3/7/2019 11:38:02 AM



#46
 Dibromomethane
 Concen: 19.356 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion: 93 Resp: 82706
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.1 99.1
 174 111.0 86.1 129.1





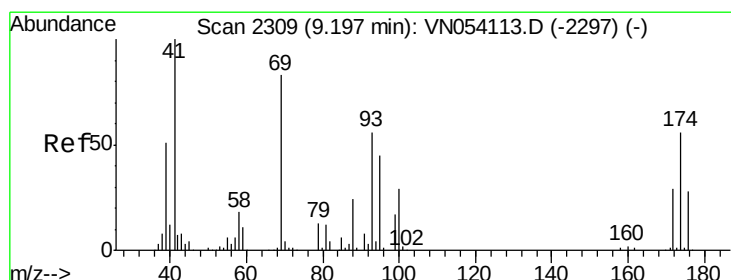
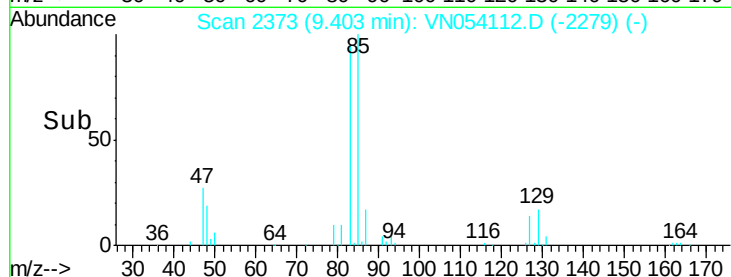
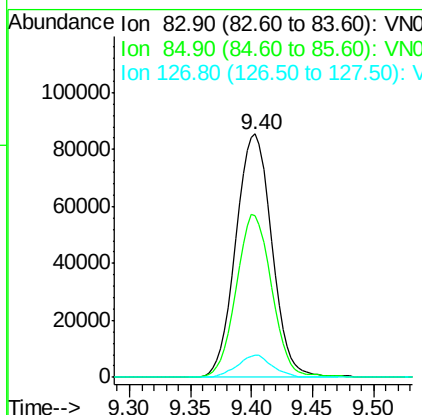
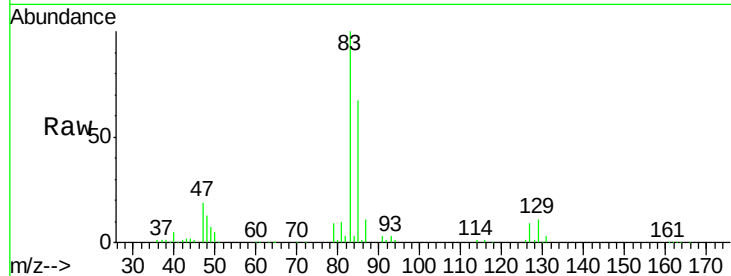
#47
Bromodichloromethane
Concen: 19.552 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.7	51.0	76.4
127	9.3	6.5	9.7

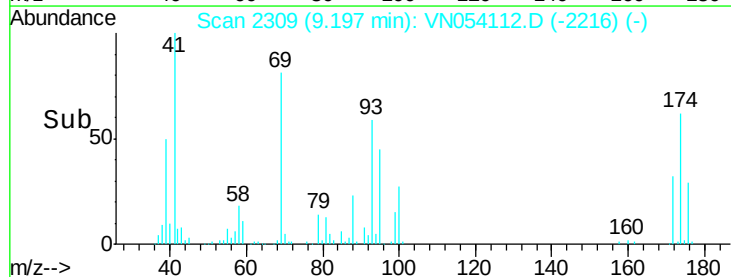
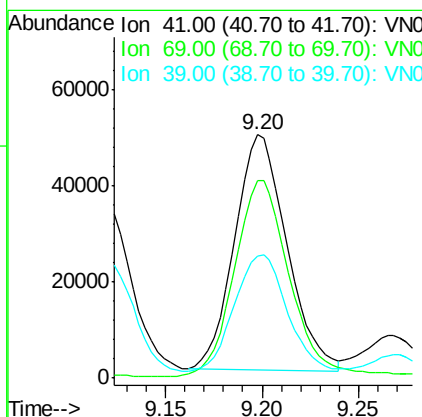
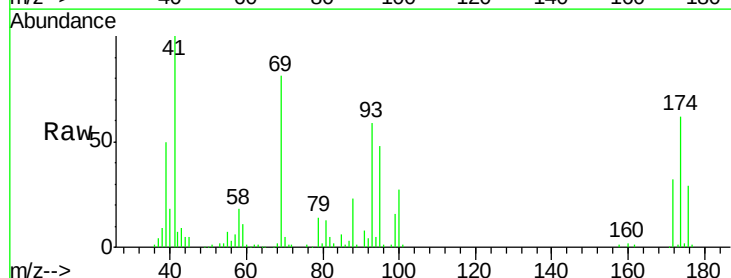
Manual Integrations
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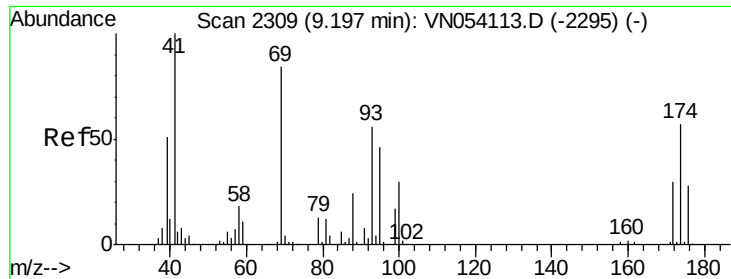
MMDadoda
3/7/2019 11:38:02 AM



#48
Methyl methacrylate
Concen: 18.293 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
41	100		
69	87.6	71.0	106.4
39	55.2	43.7	65.5





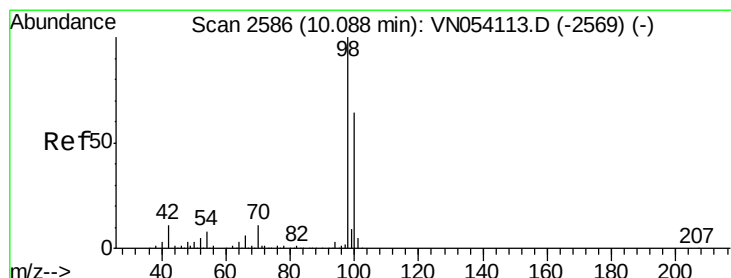
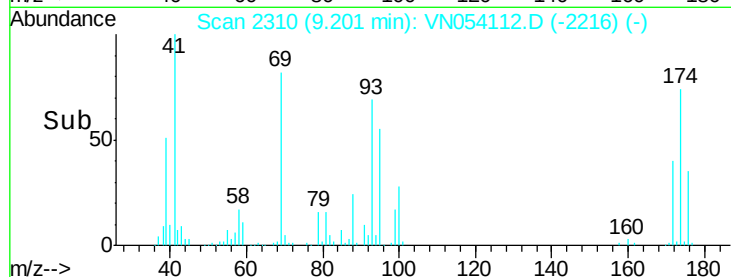
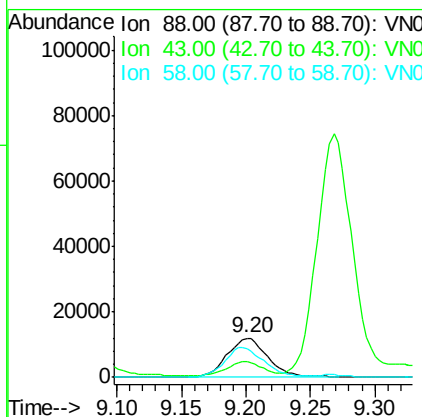
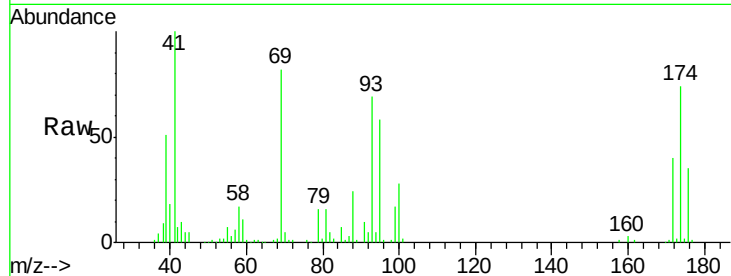
#49
1,4-Dioxane
Concen: 396.884 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	88	Resp	26470
Ion	Ratio	Lower	Upper
88	100		
43	29.2	25.5	38.3
58	73.7	58.3	87.5

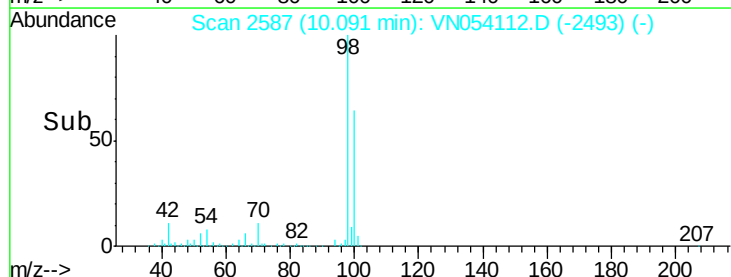
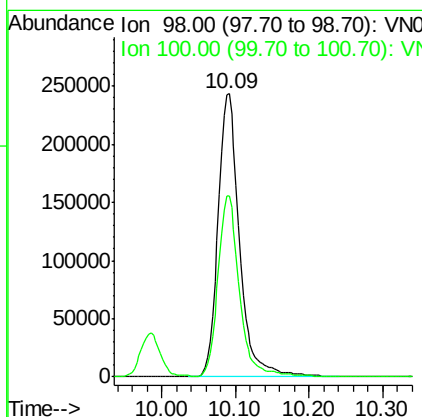
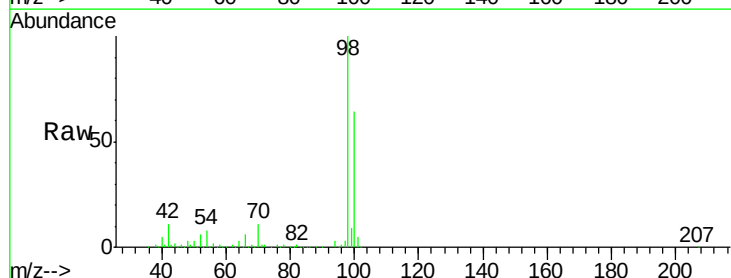
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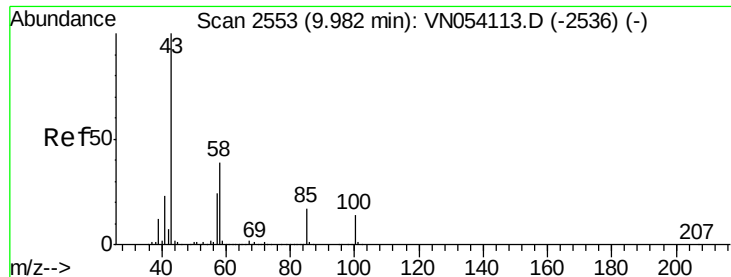
MMDadoda
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#50
Toluene-d8
Concen: 20.469 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	98	Resp	493352
Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.7	77.5





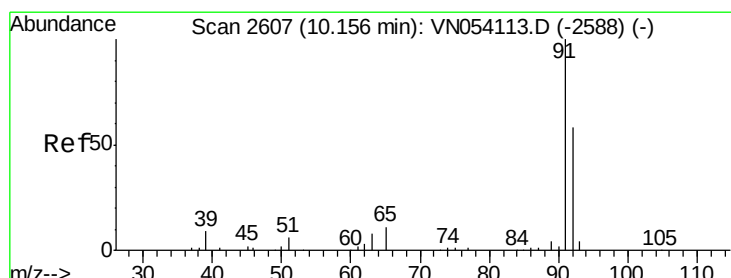
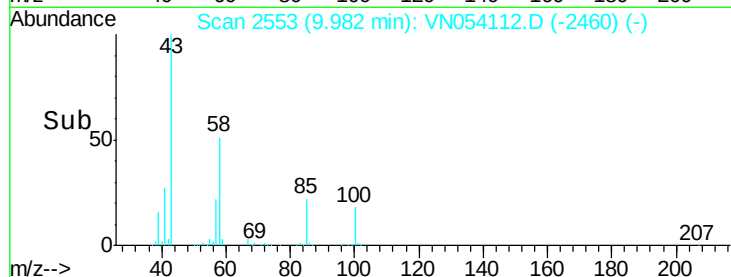
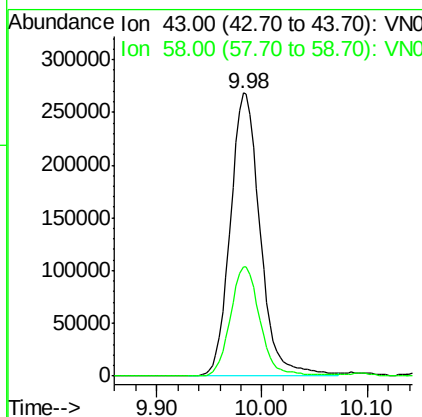
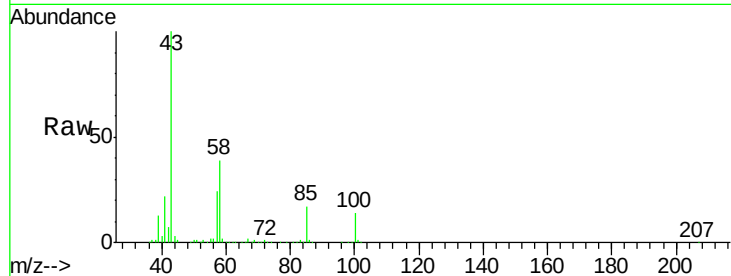
#51
4-Methyl-2-Pentanone
Concen: 89.698 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.3	30.8	46.2

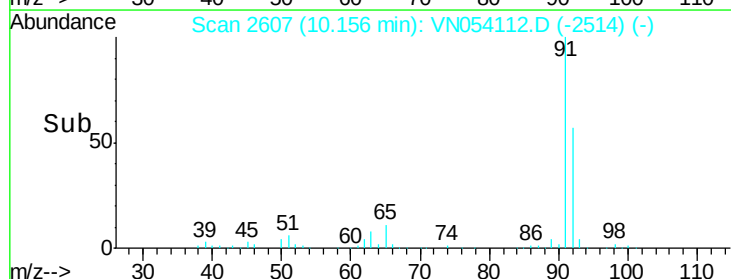
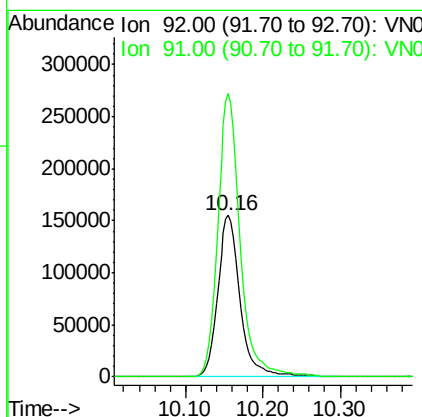
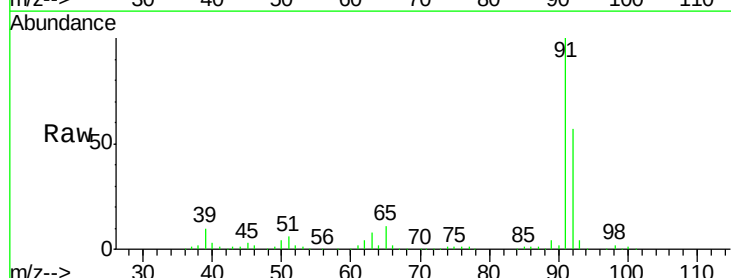
Manual Integrations
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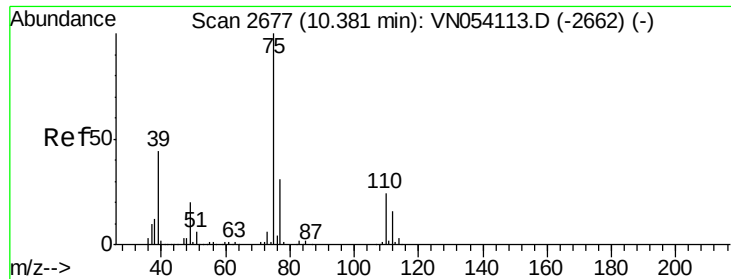
MMDadoda
3/7/2019 11:38:02 AM



#52
Toluene
Concen: 19.559 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.3	139.0	208.6





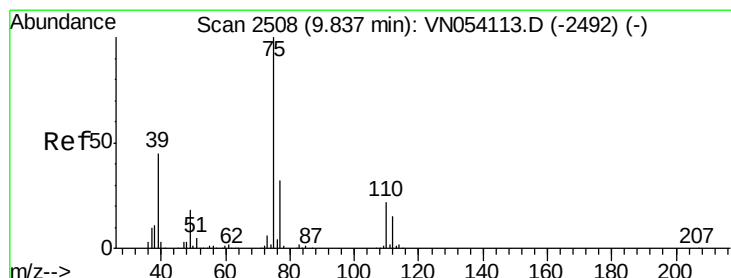
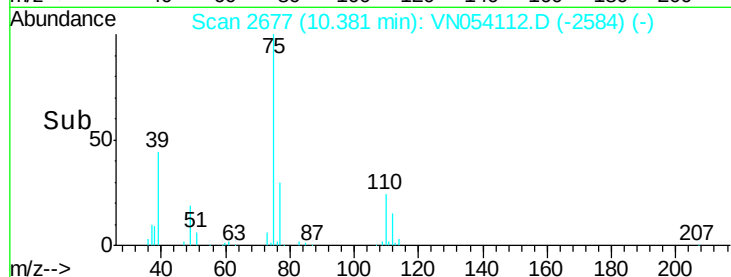
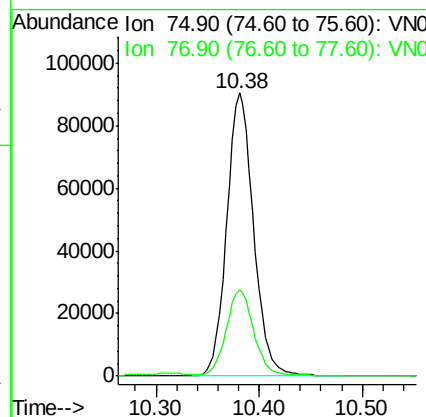
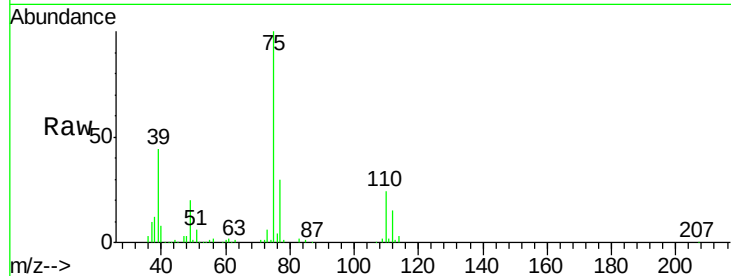
#53
t-1,3-Dichloropropene
Concen: 18.544 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.3	24.9	37.3

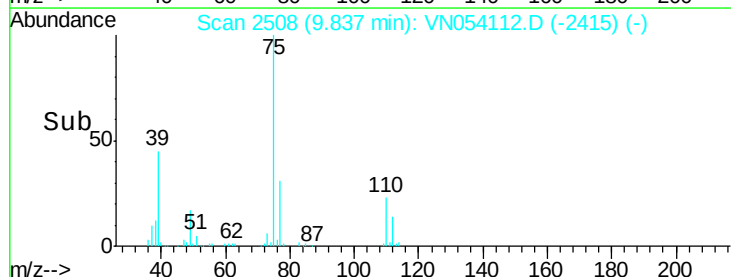
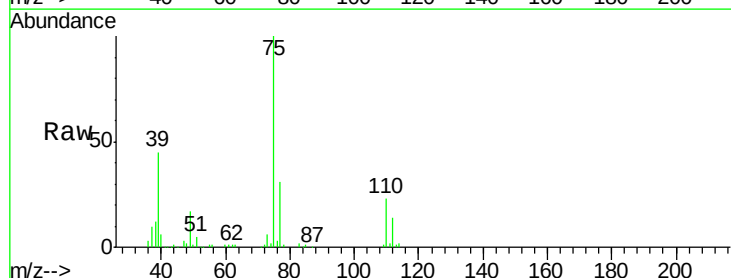
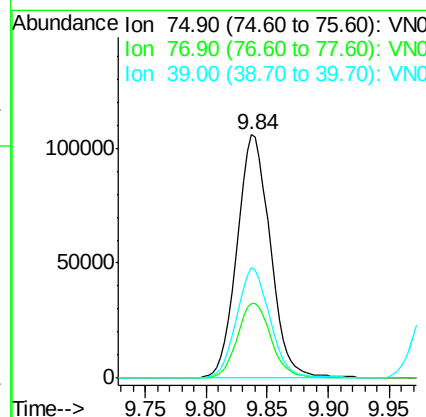
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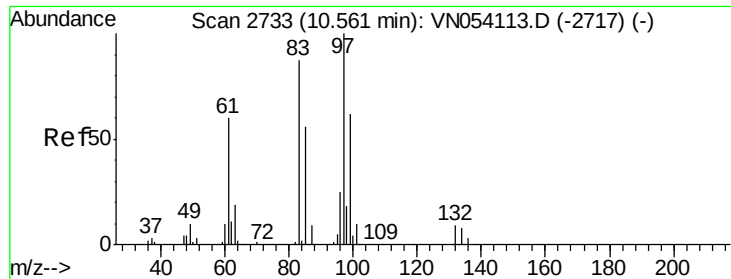
MMDadoda
3/7/2019 11:38:02 AM



#54
cis-1,3-Dichloropropene
Concen: 19.209 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	45.1	36.2	54.2





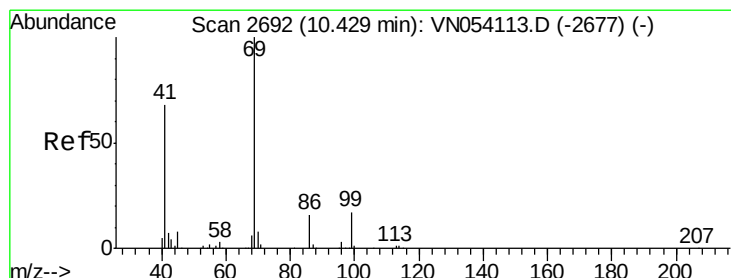
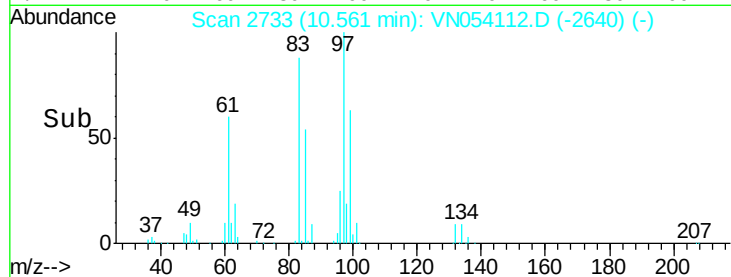
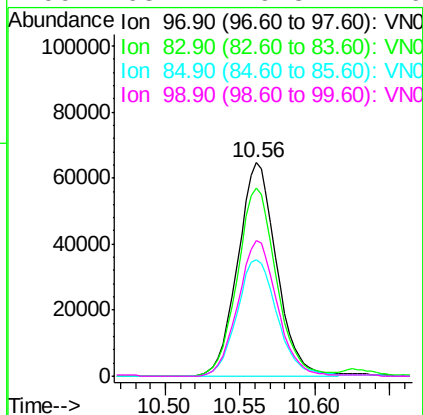
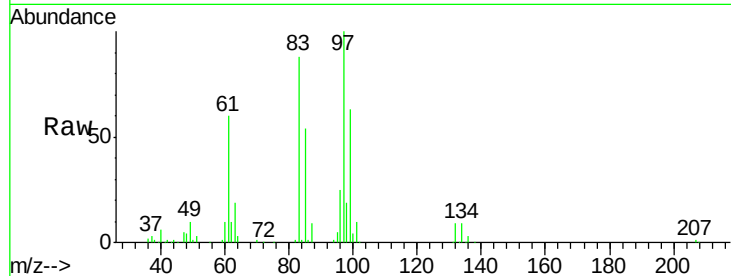
#55
 1,1,2-Trichloroethane
 Concen: 19.274 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		11690		
83	88.0	69.8	104.6		
85	54.4	45.0	67.4		
99	63.2	49.8	74.6		

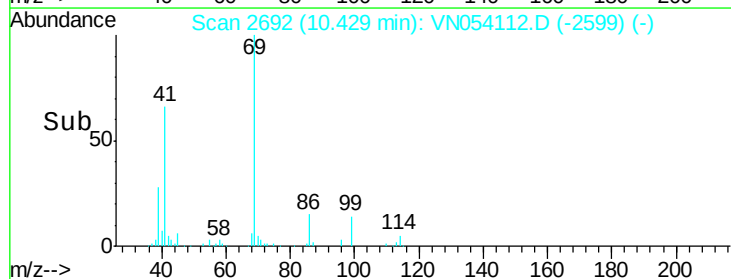
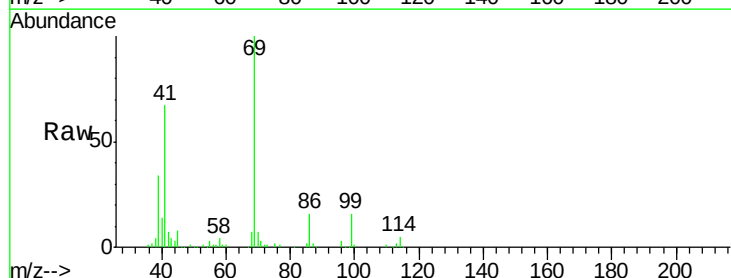
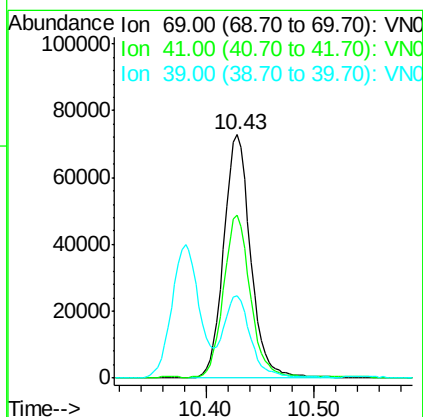
Manual Integrations
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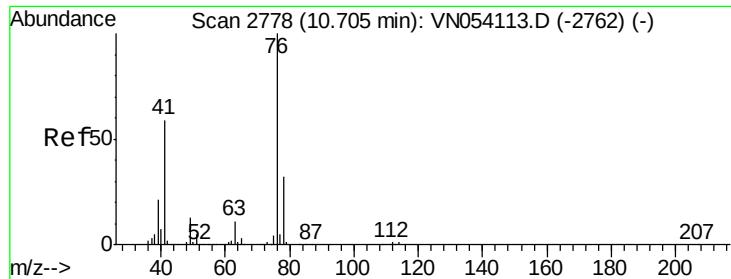
MMDadoda
 3/7/2019 11:38:02 AM



#56
 Ethyl methacrylate
 Concen: 17.753 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		126172		
41	66.3	53.4	80.2		
39	33.4	25.6	38.4		





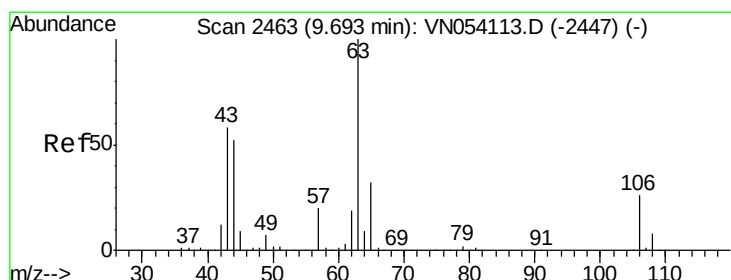
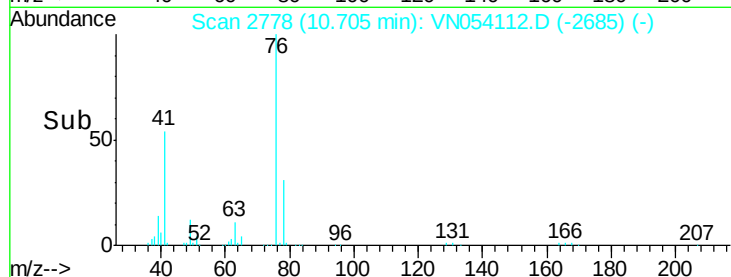
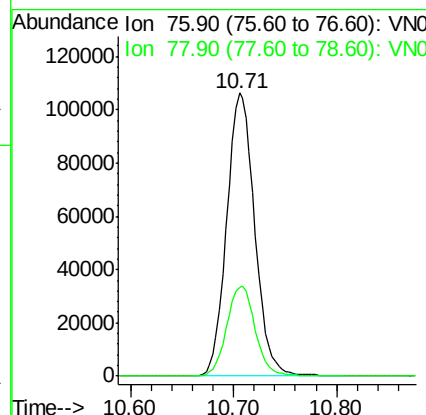
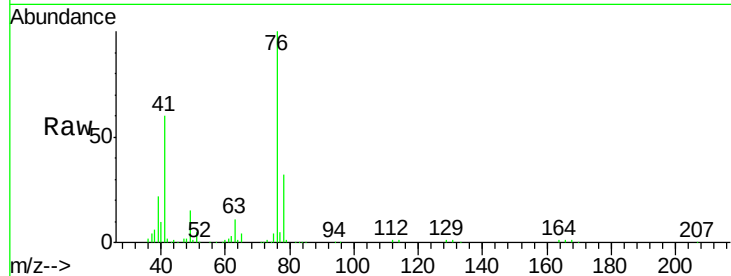
#57
 1,3-Dichloropropane
 Concen: 19.452 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 200936
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.9 38.9

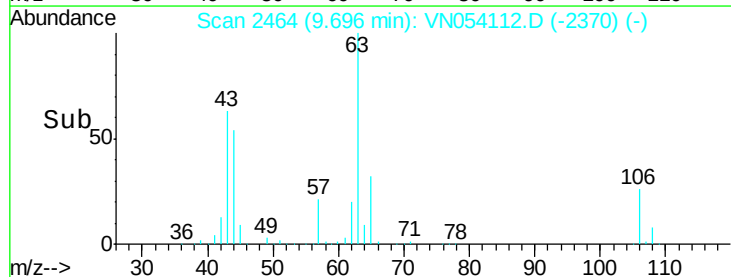
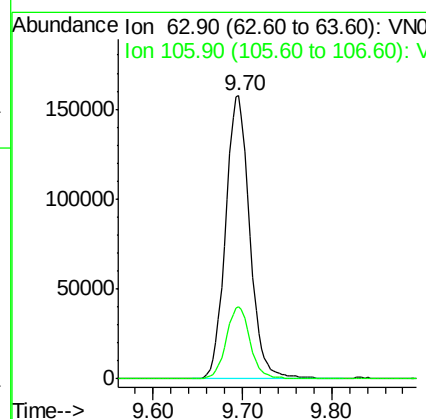
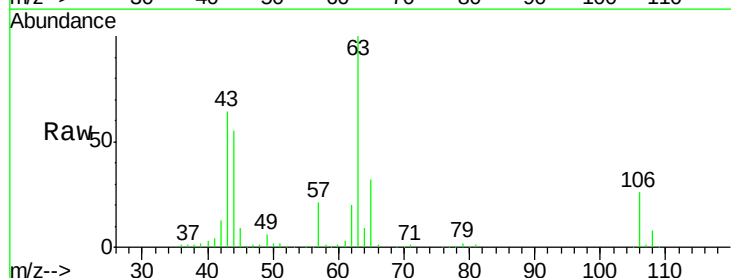
Manual Integrations
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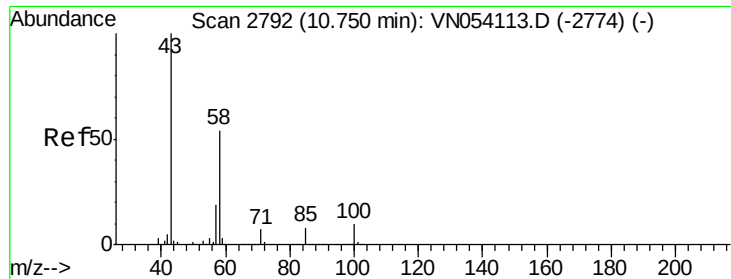
MMDadoda
 3/7/2019 11:38:02 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 90.803 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion: 63 Resp: 295386
 Ion Ratio Lower Upper
 63 100
 106 25.2 20.2 30.2





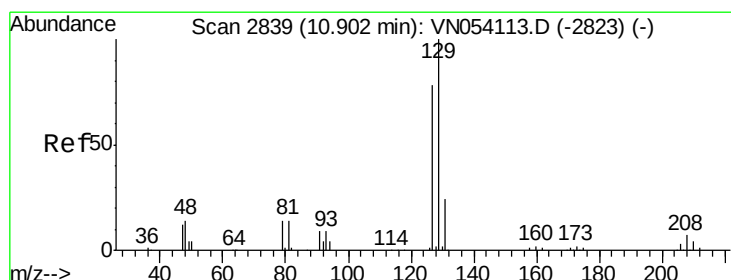
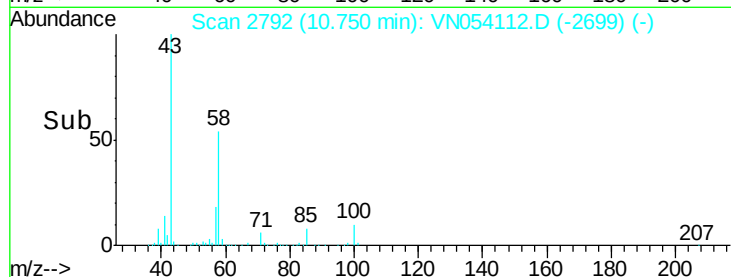
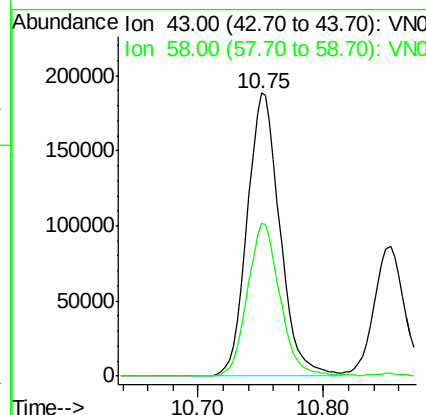
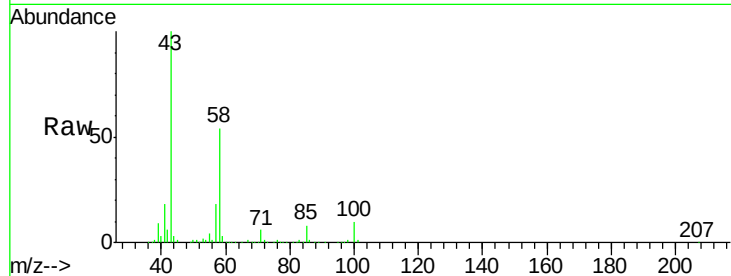
#59
2-Hexanone
Concen: 88.142 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 340503
Ion Ratio Lower Upper
43 100
58 54.0 27.0 81.0

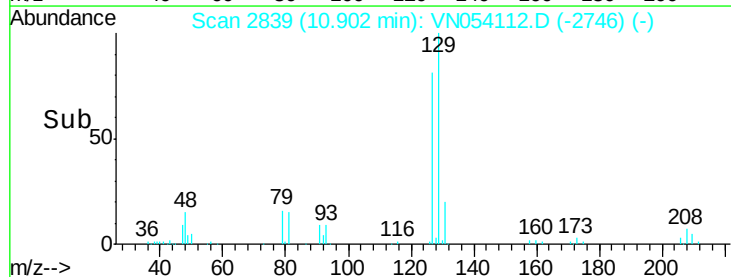
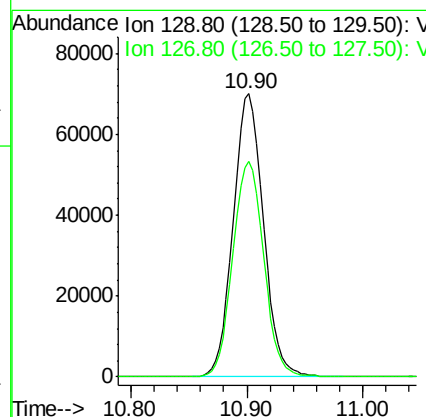
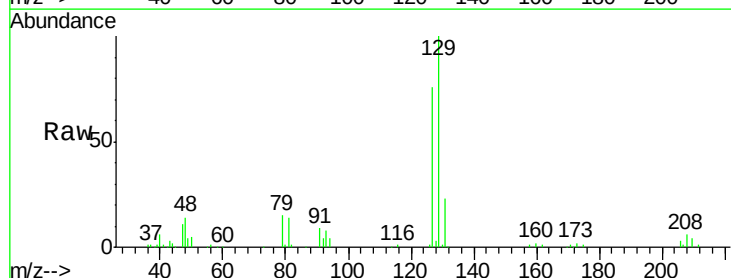
Manual Integrations
APPROVED

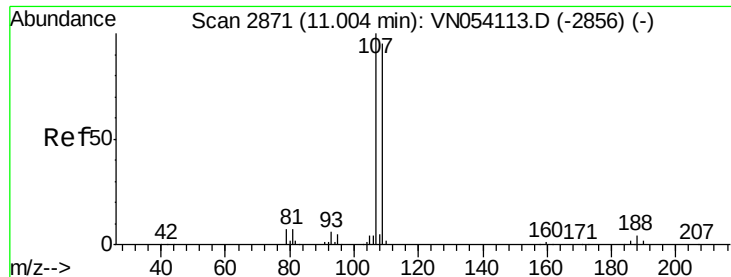
MMDadoda
3/7/2019 11:38:02 AM



#60
Dibromochloromethane
Concen: 19.513 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion: 129 Resp: 126314
Ion Ratio Lower Upper
129 100
127 77.8 38.8 116.4





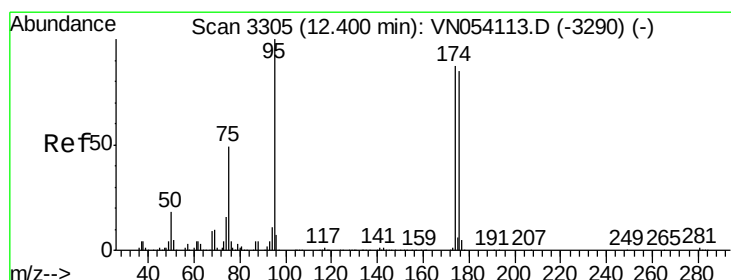
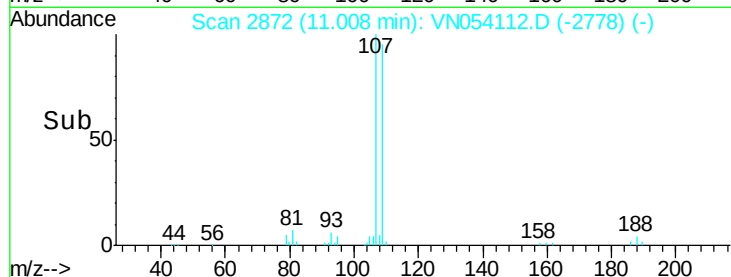
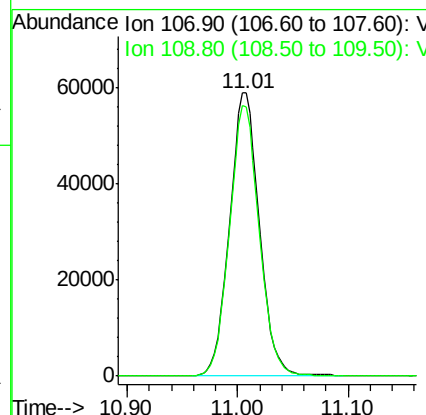
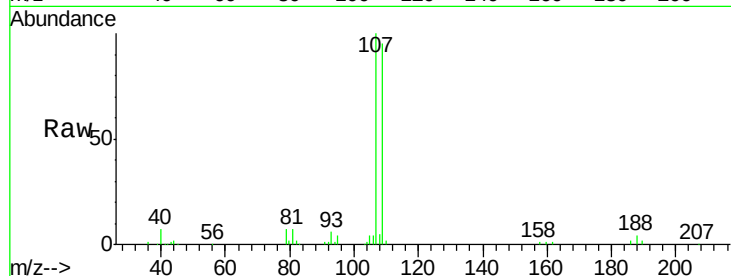
#61
 1,2-Dibromoethane
 Concen: 19.166 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 107 Resp: 110410
 Ion Ratio Lower Upper
 107 100
 109 95.4 74.9 112.3

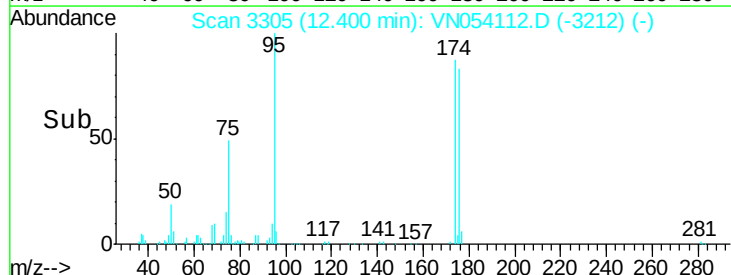
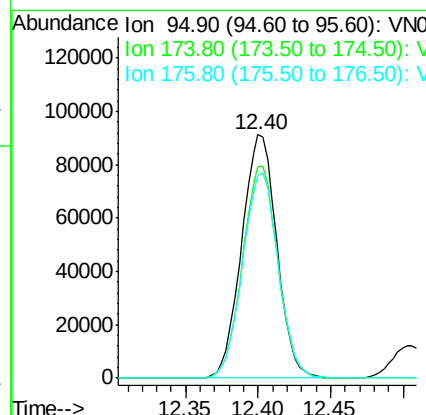
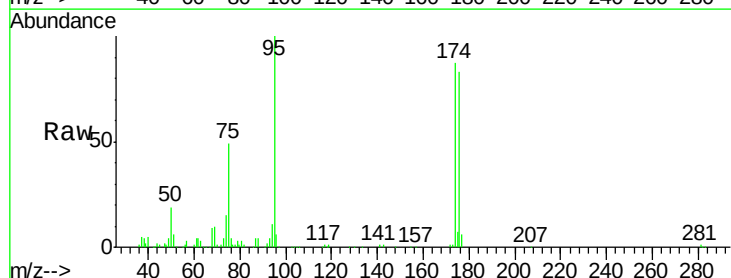
Manual Integrations
 APPROVED

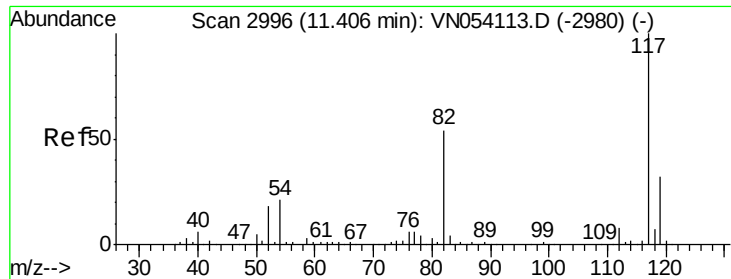
MMDadoda
 3/7/2019 11:38:02 AM



#62
 4-Bromofluorobenzene
 Concen: 19.619 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion: 95 Resp: 153948
 Ion Ratio Lower Upper
 95 100
 174 87.4 0.0 173.2
 176 85.7 0.0 168.8





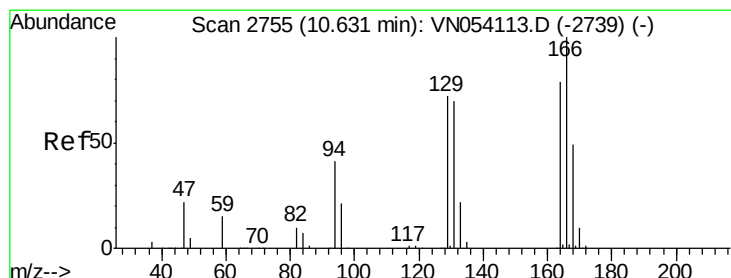
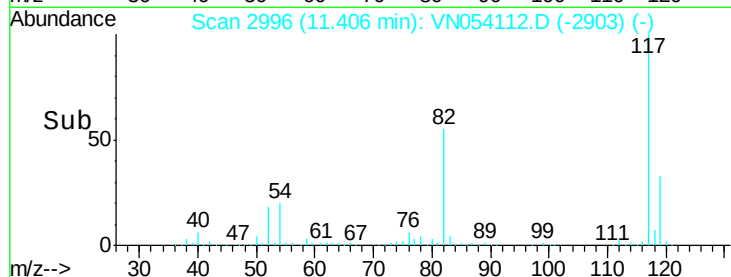
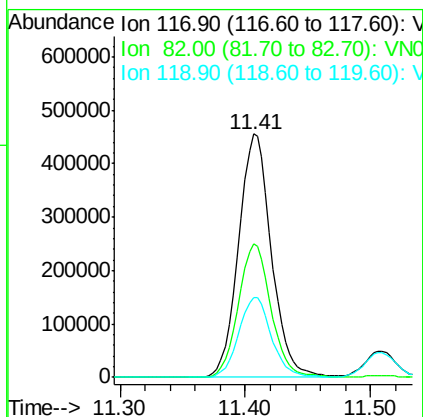
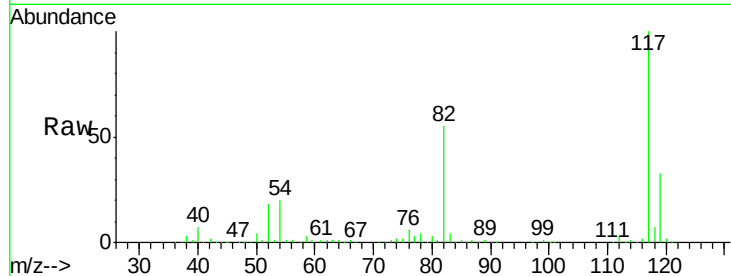
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.4	65.2
119	32.7	26.0	39.0

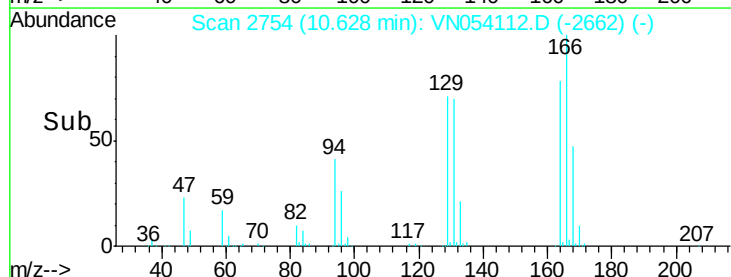
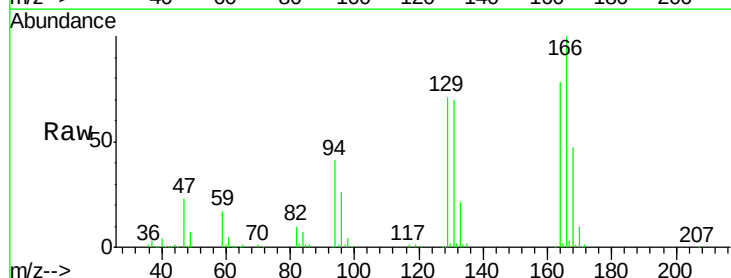
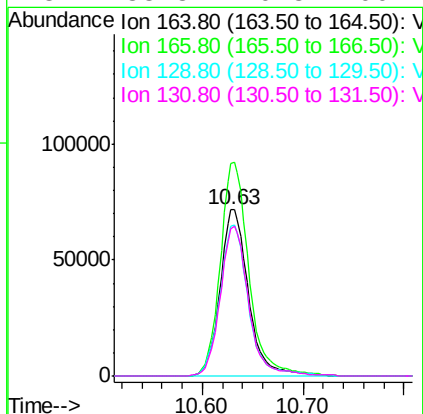
Manual Integrations
APPROVED

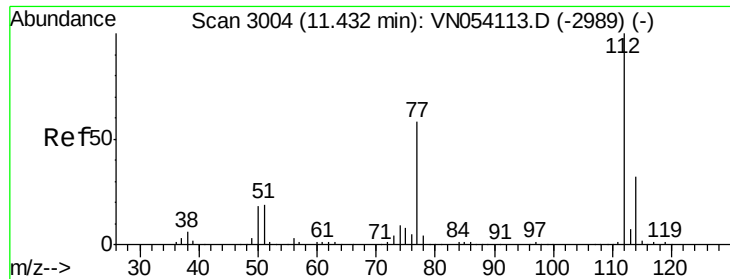
MMDadoda
3/7/2019 11:38:02 AM



#64
Tetrachloroethene
Concen: 20.761 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	101.3	151.9
129	90.3	73.2	109.8
131	88.8	70.8	106.2





#65

Chlorobenzene

Concen: 19.191 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:112 Resp: 331026

Ion Ratio Lower Upper

112 100

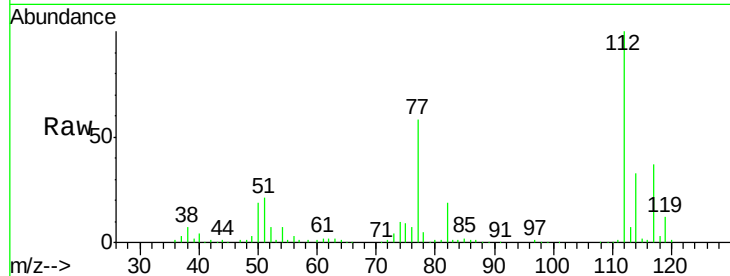
114 32.8 25.4 38.0

Manual Integrations

APPROVED

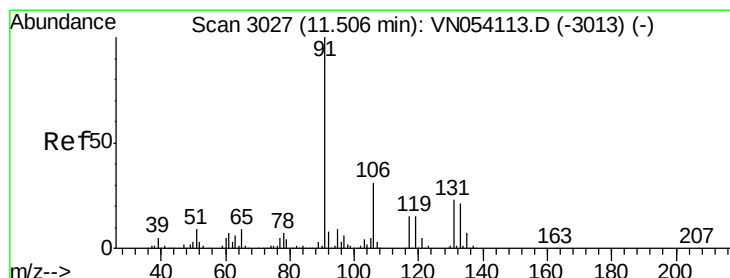
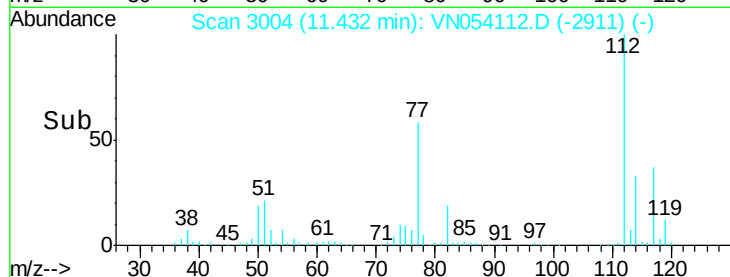
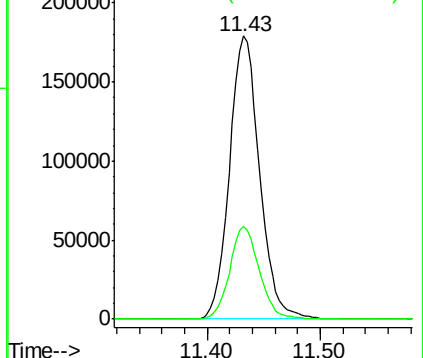
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.950 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

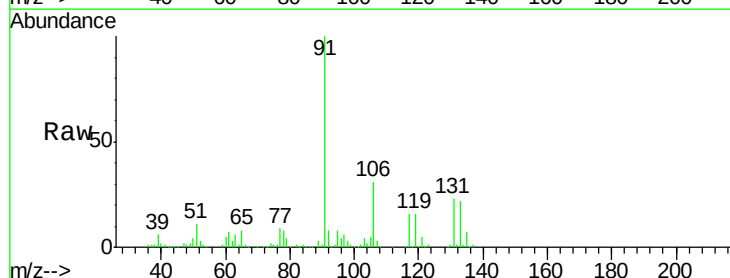
Tgt Ion:131 Resp: 123179

Ion Ratio Lower Upper

131 100

133 95.7 47.6 142.9

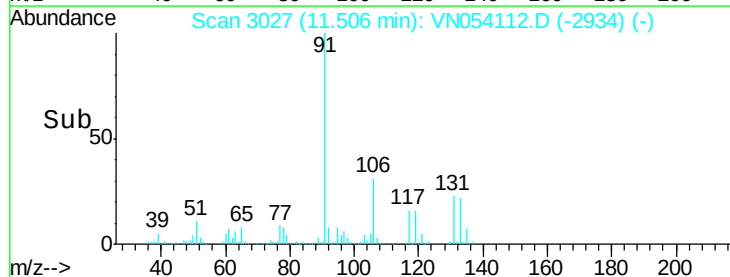
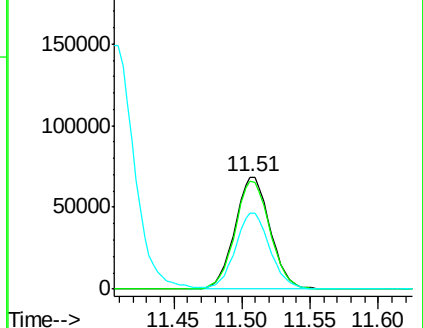
119 65.9 33.8 101.3

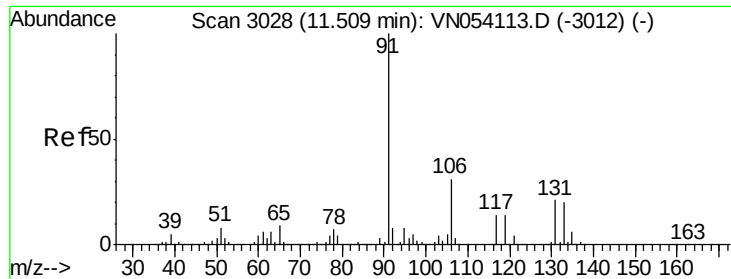


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





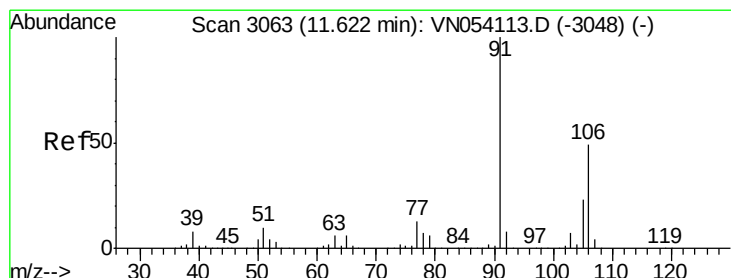
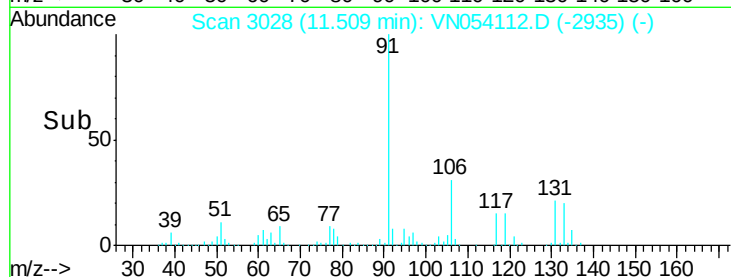
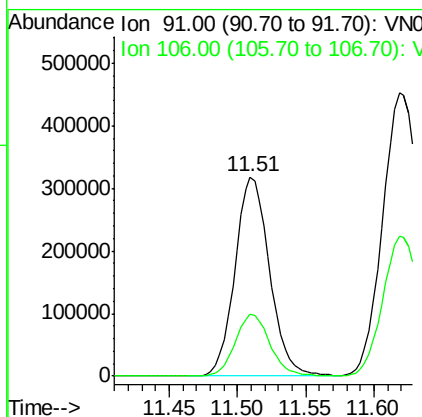
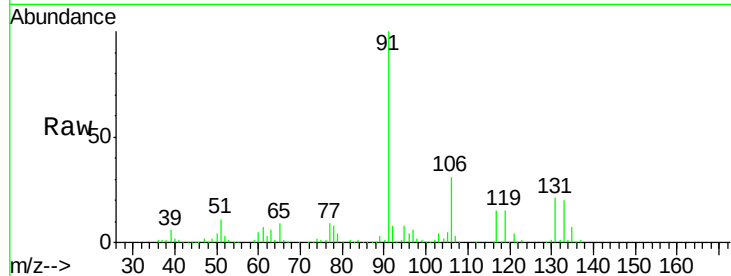
#67
Ethyl Benzene
Concen: 19.418 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 91 Resp: 560469
Ion Ratio Lower Upper
91 100
106 31.0 24.6 36.8

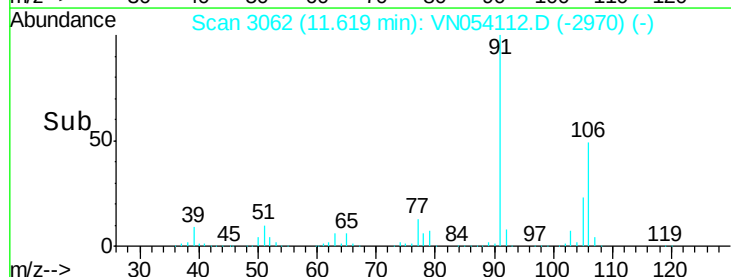
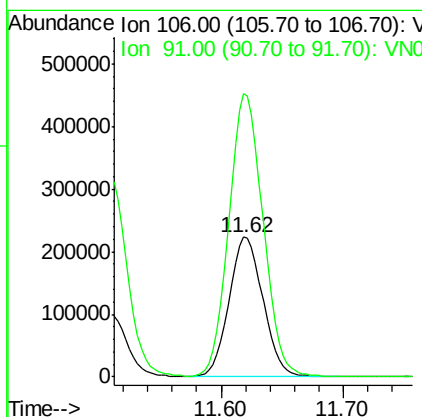
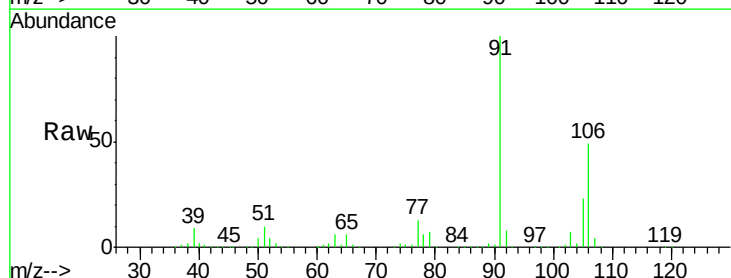
Manual Integrations
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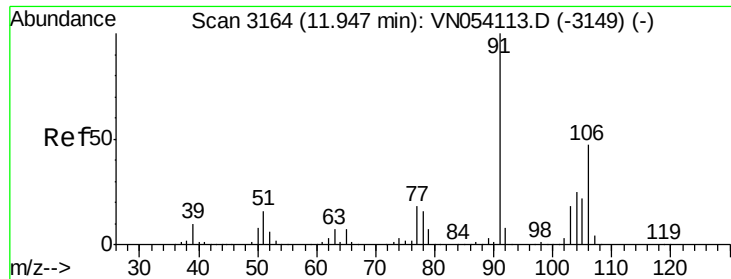
MMDadoda
3/7/2019 11:38:02 AM



#68
m/p-Xylenes
Concen: 39.731 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion: 106 Resp: 432762
Ion Ratio Lower Upper
106 100
91 204.0 163.2 244.8





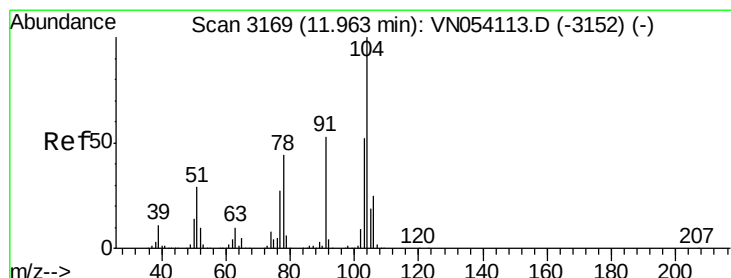
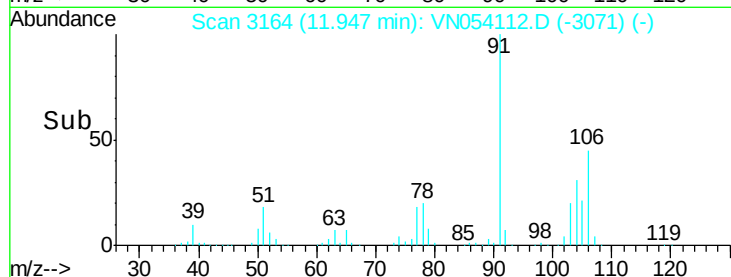
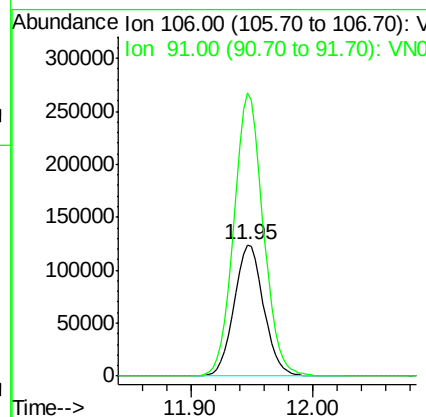
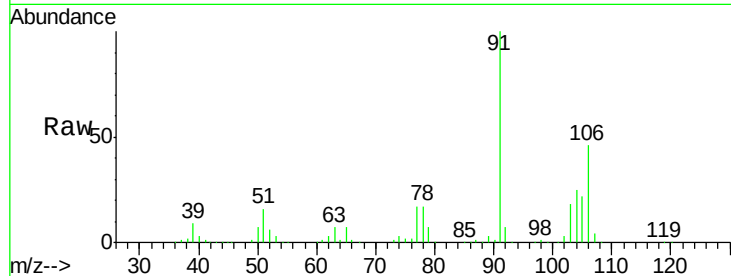
#69
o-Xylene
Concen: 20.044 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:106 Resp: 210087
Ion Ratio Lower Upper
106 100
91 214.3 107.1 321.3

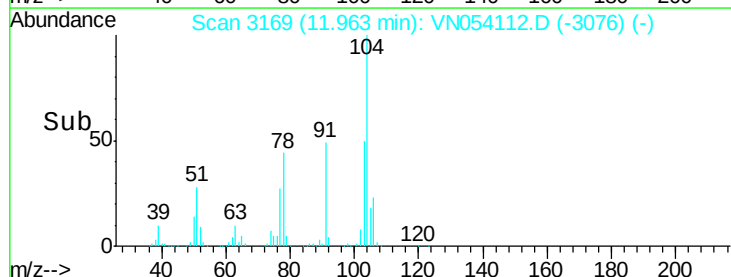
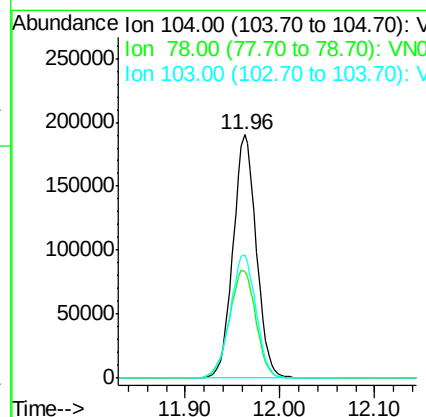
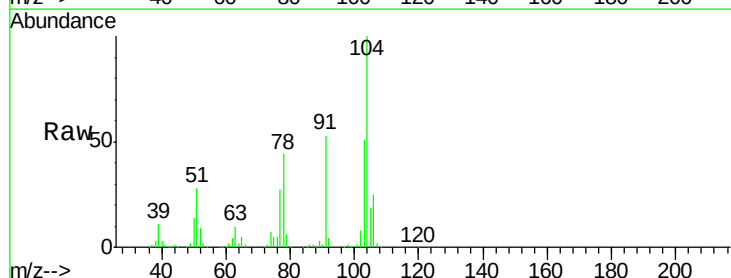
Manual Integrations
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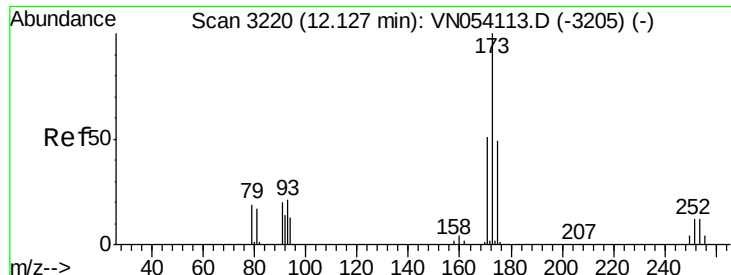
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#70
Styrene
Concen: 19.601 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion:104 Resp: 326125
Ion Ratio Lower Upper
104 100
78 50.4 39.4 59.0
103 55.9 44.7 67.1





#71

Bromoform

Concen: 19.459 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 82689

Ion Ratio Lower Upper

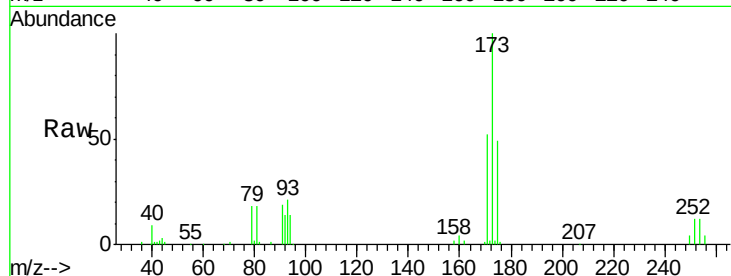
173 100

175 48.9 24.1 72.2

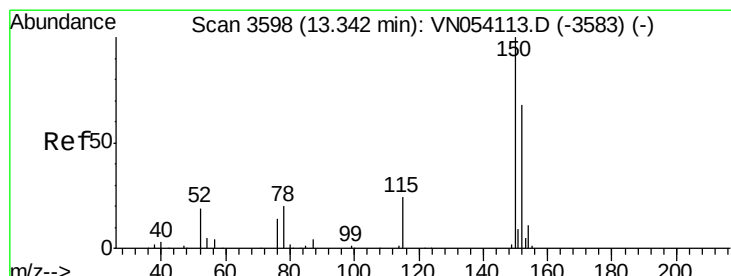
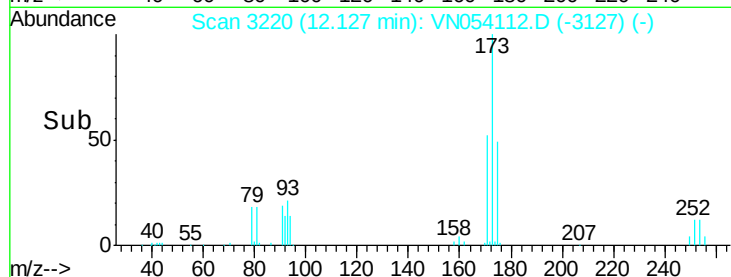
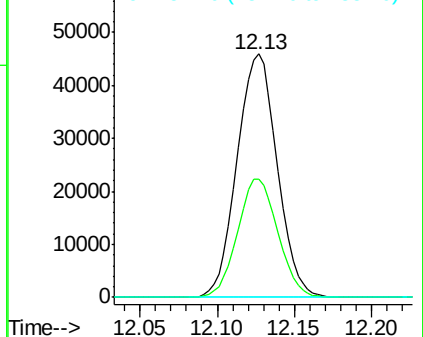
254 0.0 0.0 0.0

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

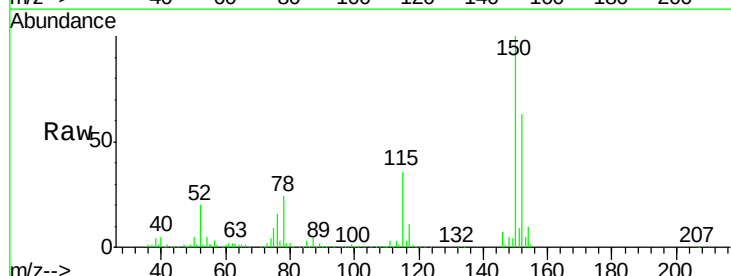
Tgt Ion:152 Resp: 357127

Ion Ratio Lower Upper

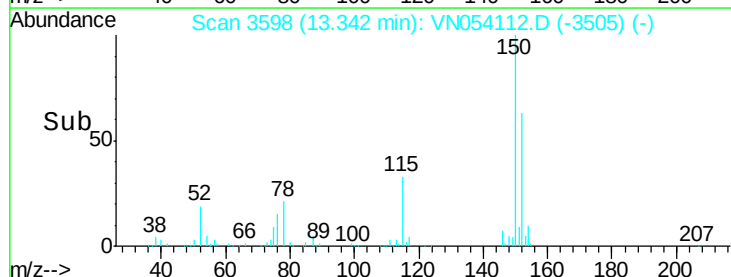
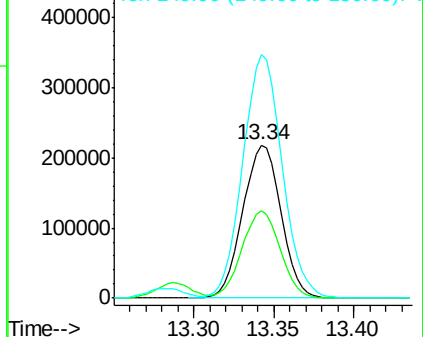
152 100

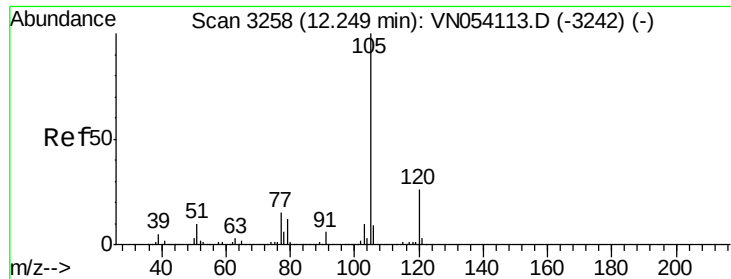
115 57.0 28.5 85.6

150 164.2 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.544 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 555363

Ion Ratio Lower Upper

105 100

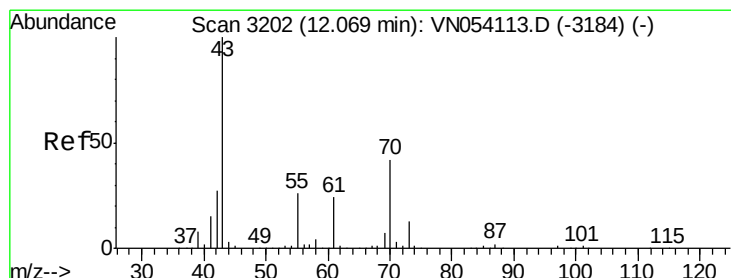
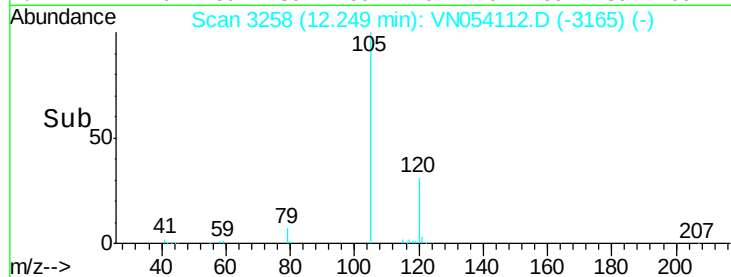
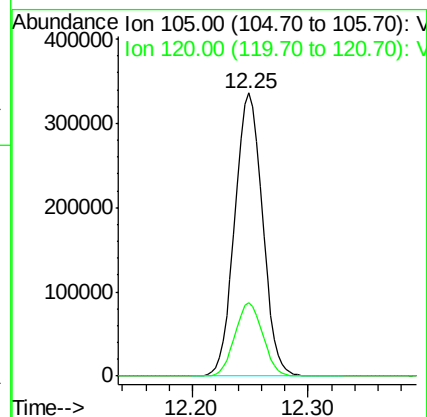
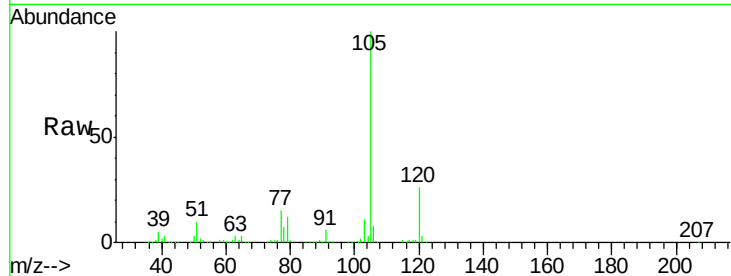
120 26.0 13.3 39.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 17.996 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion: 43 Resp: 135438

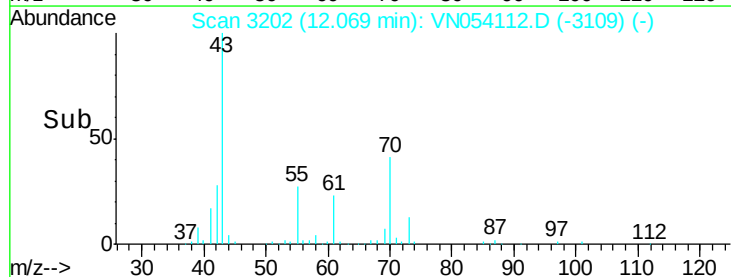
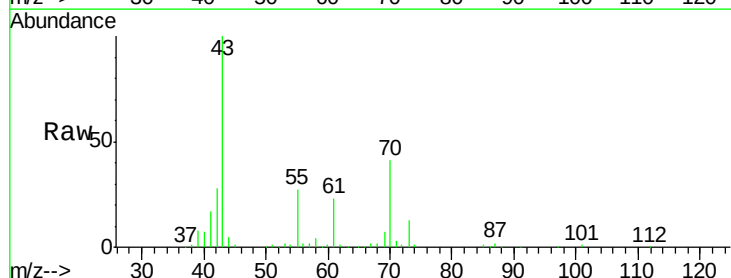
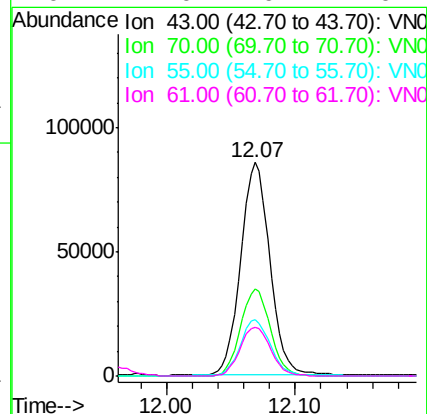
Ion Ratio Lower Upper

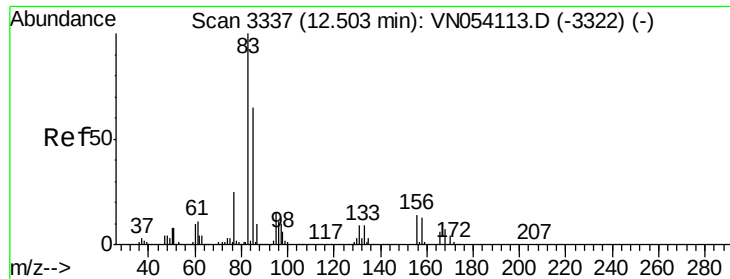
43 100

70 41.6 33.6 50.4

55 27.6 20.6 31.0

61 24.0 19.4 29.2





#75

1,1,2,2-Tetrachloroethane

Concen: 18.056 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

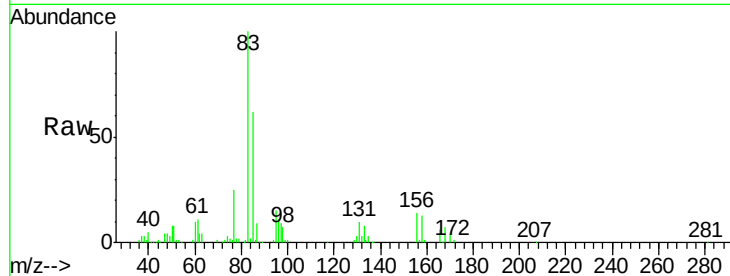
ClientSampled :

VSTDIC020

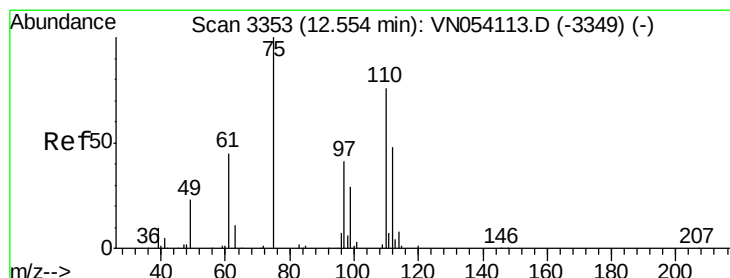
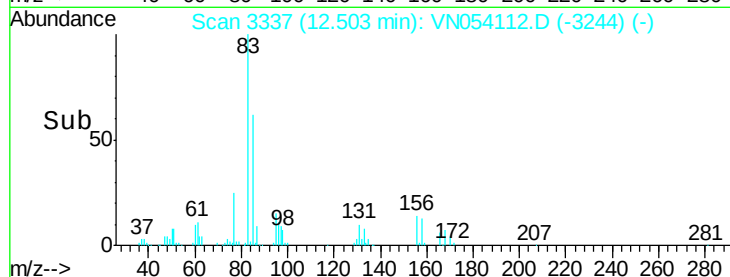
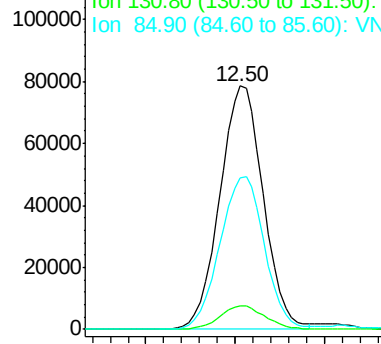
Tot Ion:	83	Resp:	133542
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.0	14.9
85	64.4	32.4	97.0

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN054112.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 21.633 ug/l m

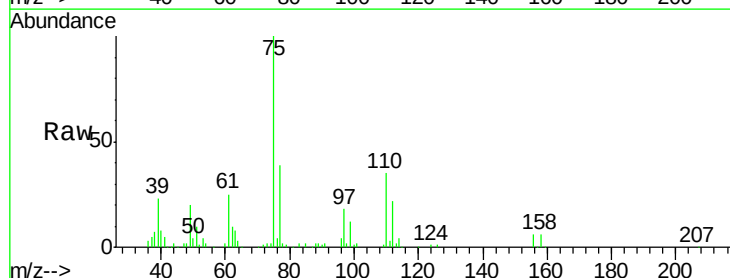
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

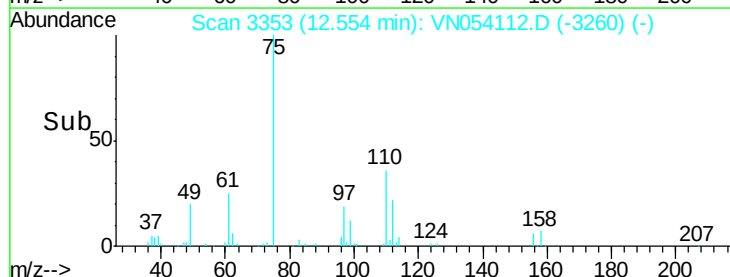
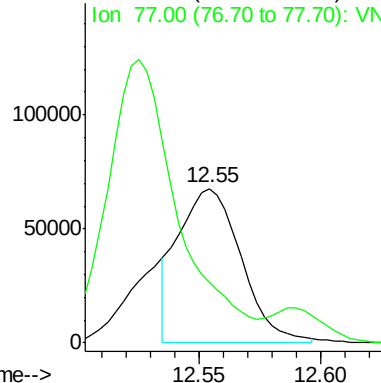
Lab File: VN054112.D

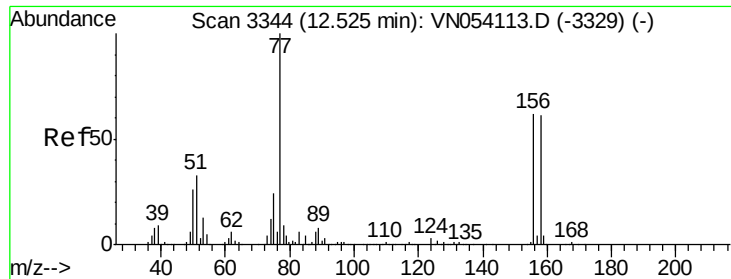
Acq: 6 Mar 2019 11:02

Tgt Ion:	75	Resp:	120795
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054112.D (-3353) (-)





#77

Bromobenzene

Concen: 18.268 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

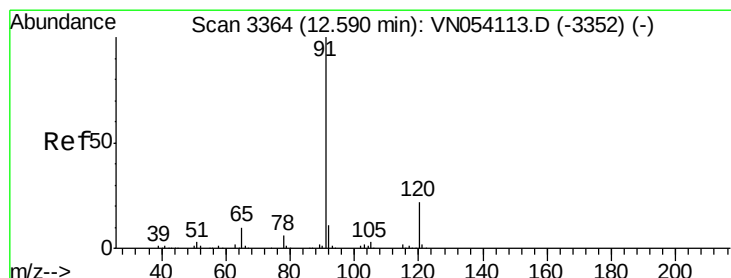
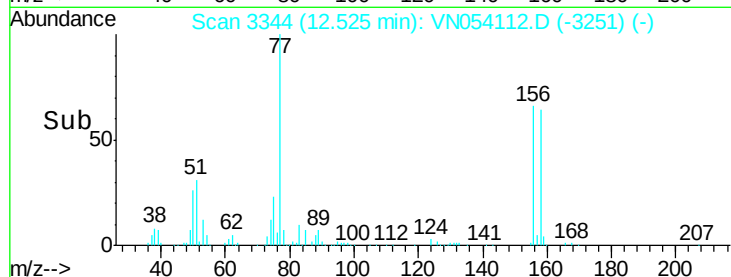
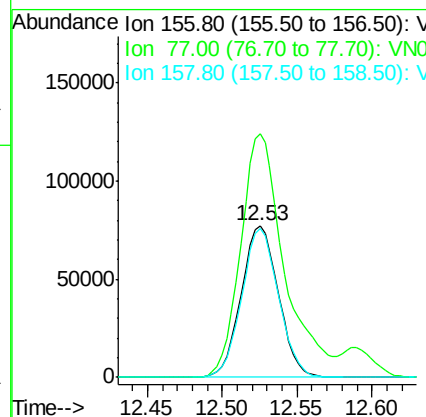
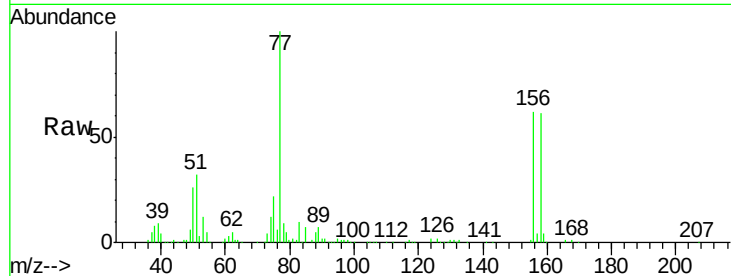
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	133741
Ion Ratio	Lower	Upper	
156	100		
77	187.7	93.6	280.8
158	97.2	48.4	145.0

Manual Integrations
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3/7/2019 11:38:02 AM



#78

n-propylbenzene

Concen: 19.447 ug/l

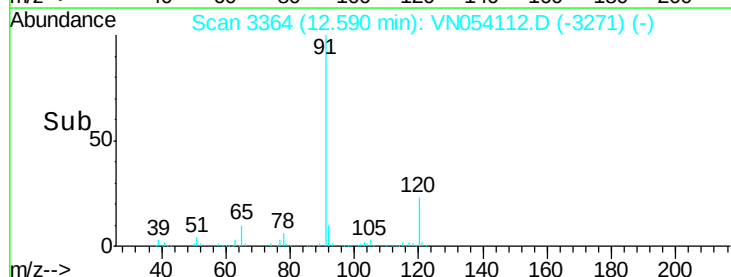
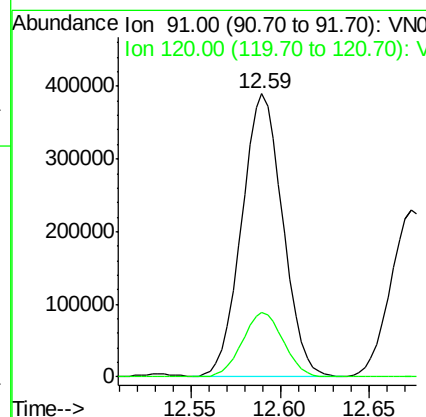
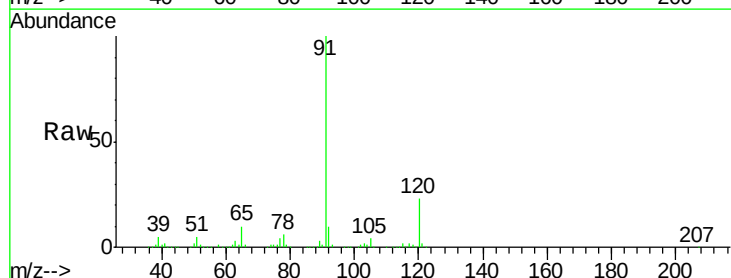
RT: 12.59 min Scan# 3364

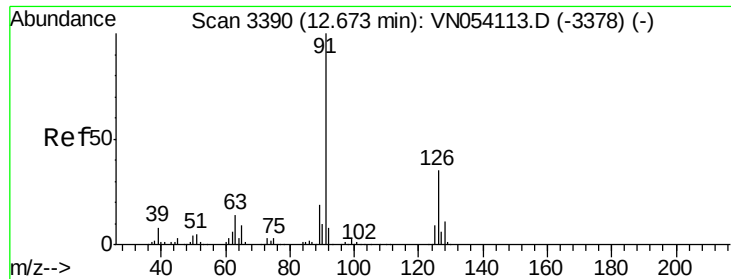
Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	91	Resp:	621836
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.3	33.9





#79

2-Chlorotoluene

Concen: 19.624 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 381110

Ion Ratio Lower Upper

91 100

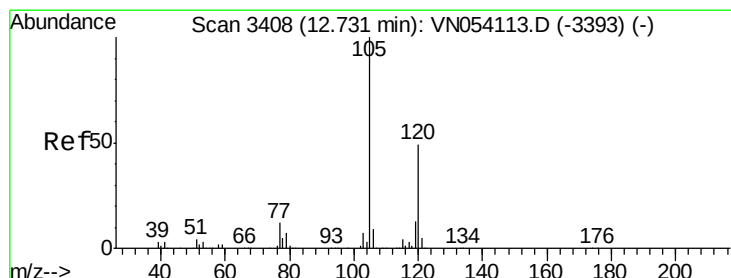
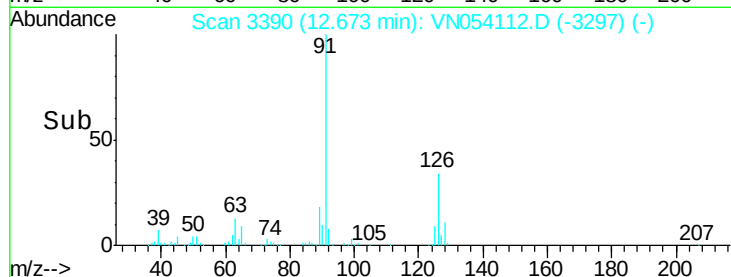
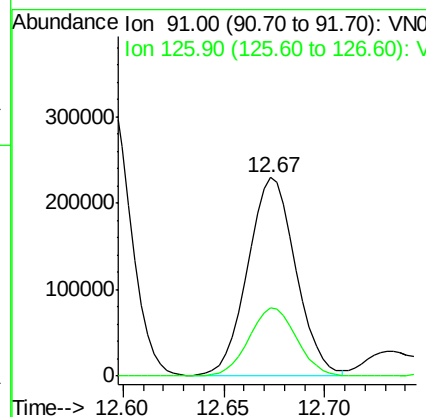
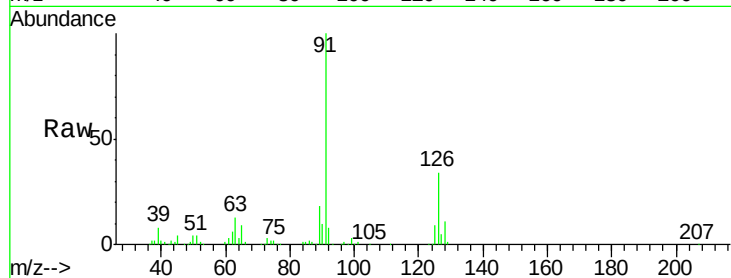
126 34.5 17.4 52.2

Manual Integrations

APPROVED

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#80

1,3,5-Trimethylbenzene

Concen: 20.020 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054112.D

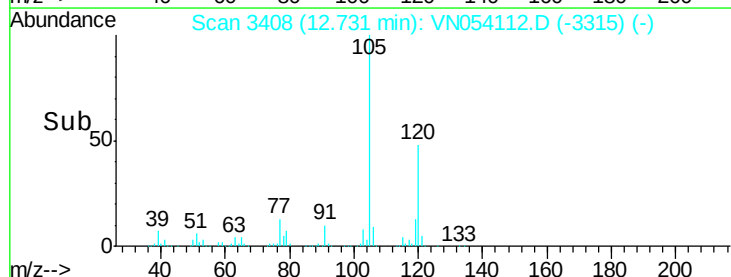
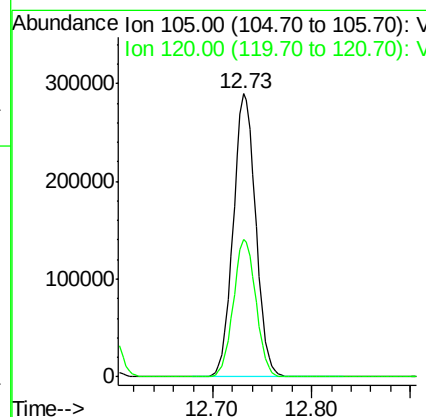
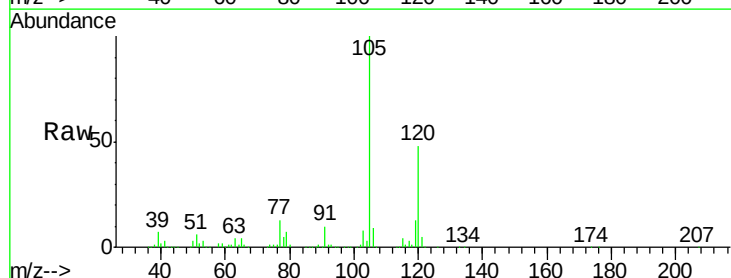
Acq: 6 Mar 2019 11:02

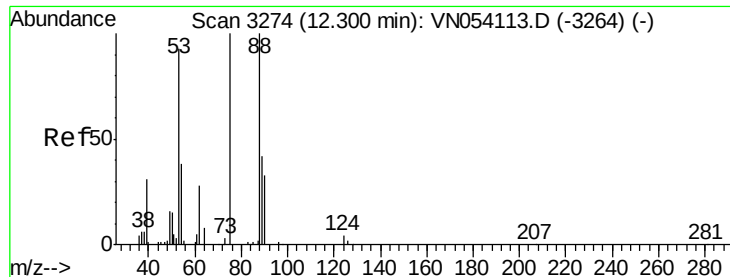
Tgt Ion: 105 Resp: 462455

Ion Ratio Lower Upper

105 100

120 48.7 24.6 73.8





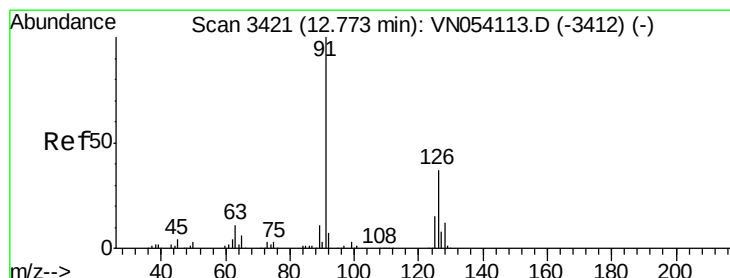
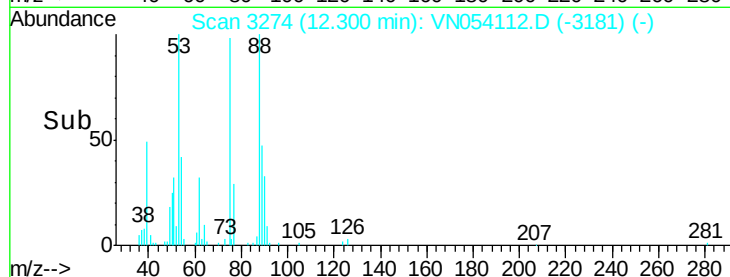
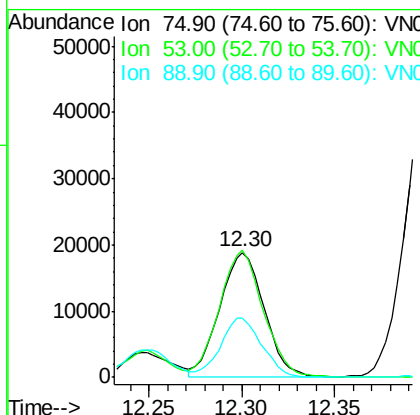
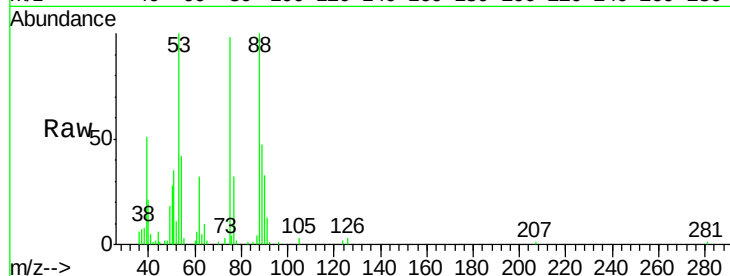
#81
trans-1,4-Dichloro-2-butene
Concen: 17.763 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.0	76.4	114.6
89	44.0	35.3	52.9

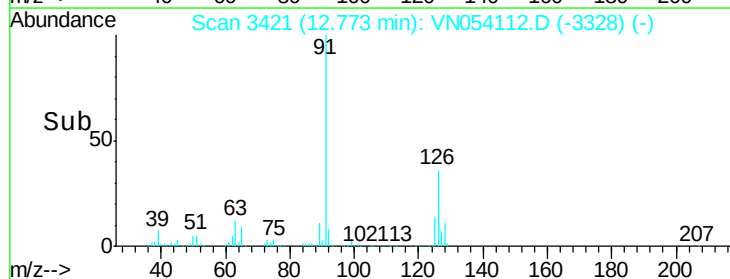
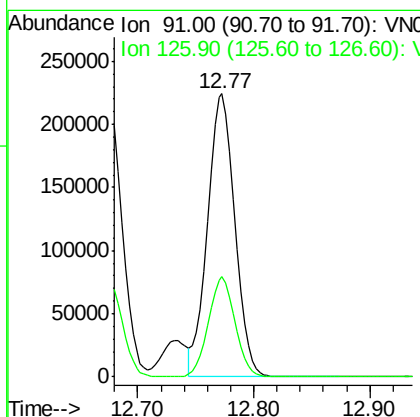
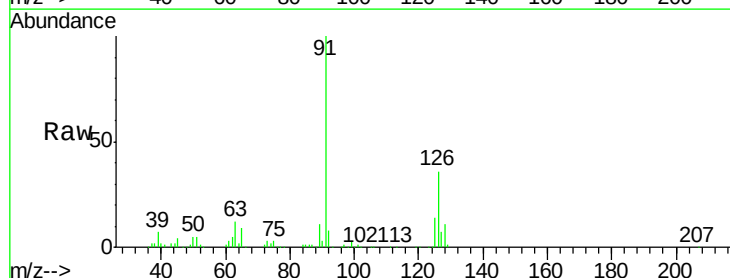
Manual Integrations
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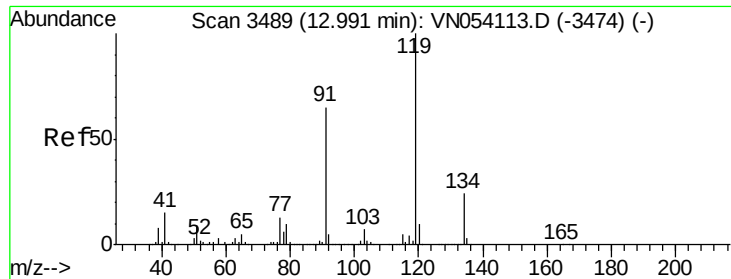
MMDadoda
3/7/2019 11:38:02 AM



#82
4-Chlorotoluene
Concen: 19.191 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.1	51.3





#83

tert-Butylbenzene

Concen: 19.804 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

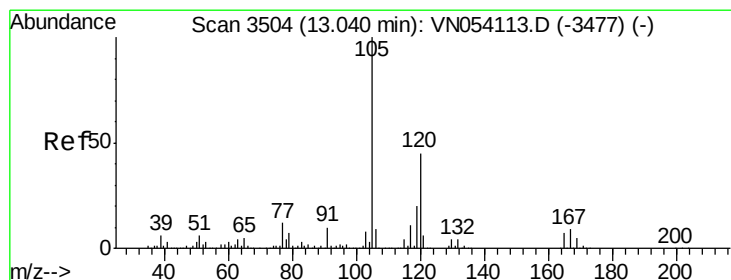
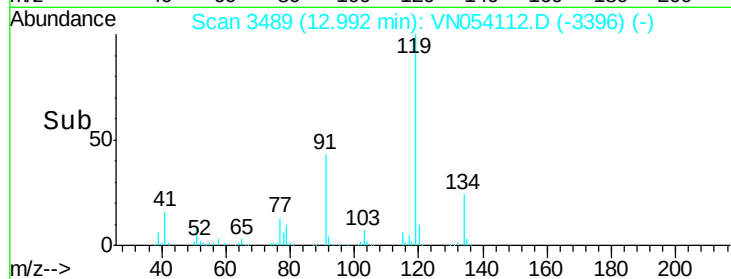
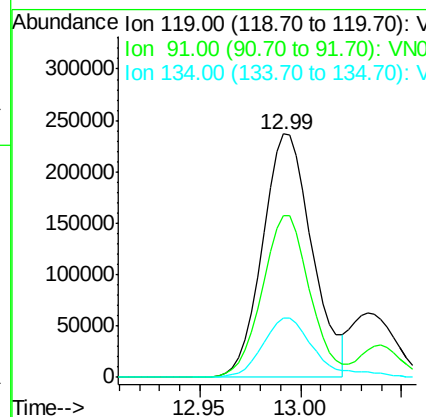
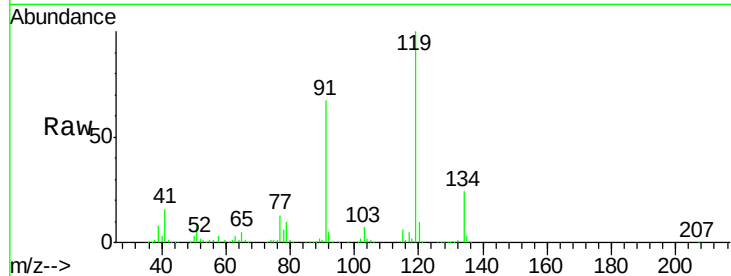
ClientSampled :

VSTDIC020

Tot Ion:	119	Resp:	405120
Ion Ratio	Lower	Upper	
119	100		
91	64.0	31.8	95.3
134	25.7	12.8	38.3

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 20.214 ug/l

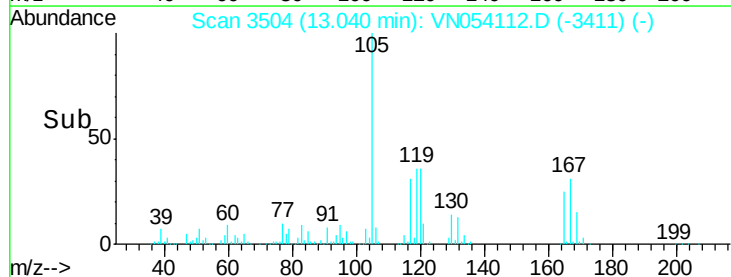
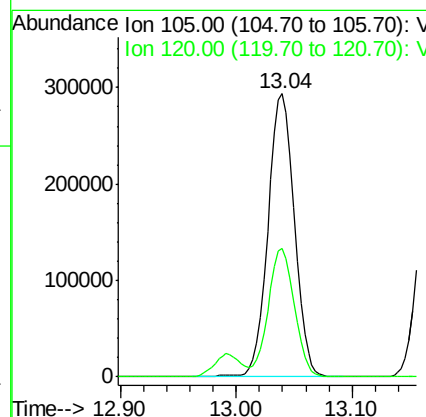
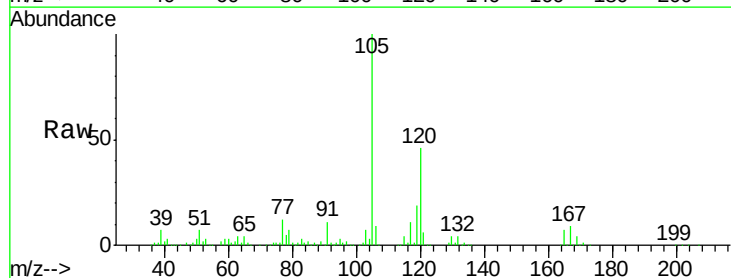
RT: 13.04 min Scan# 3504

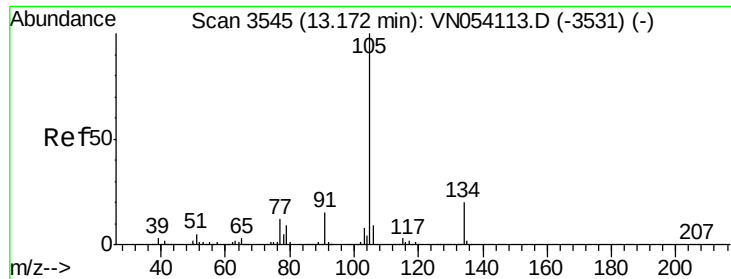
Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	105	Resp:	463437
Ion Ratio	Lower	Upper	
105	100		
120	45.1	22.6	67.7





#85

sec-Butylbenzene

Concen: 19.629 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 544907

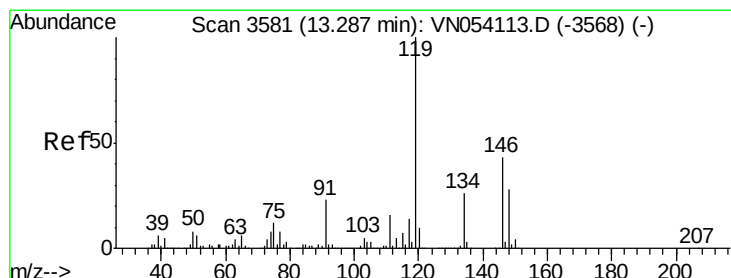
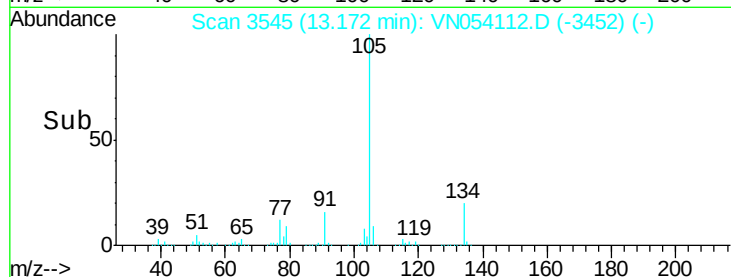
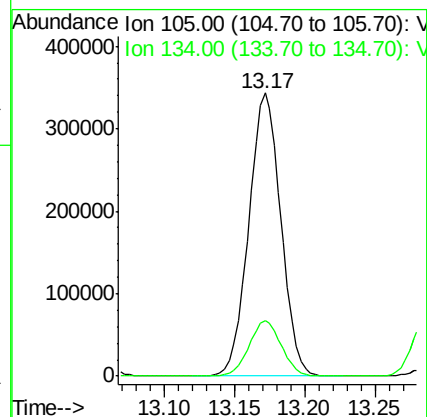
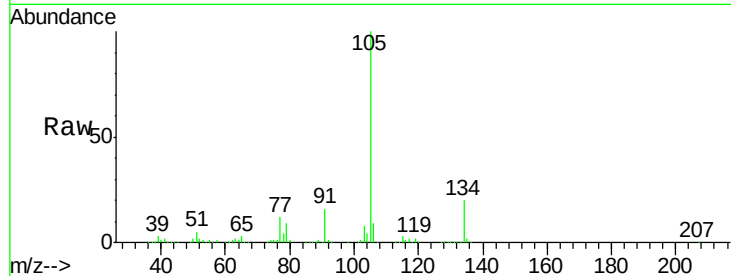
Ion Ratio Lower Upper

105 100

134 19.7 9.8 29.5

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#86

p-Isopropyltoluene

Concen: 19.641 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

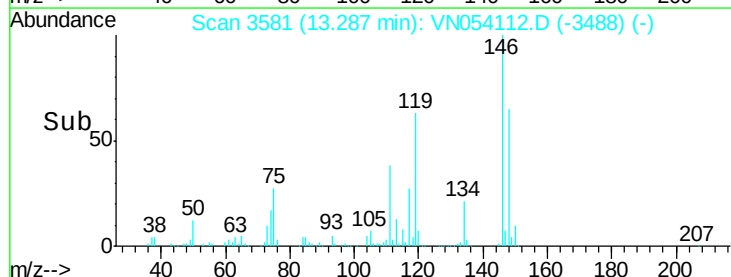
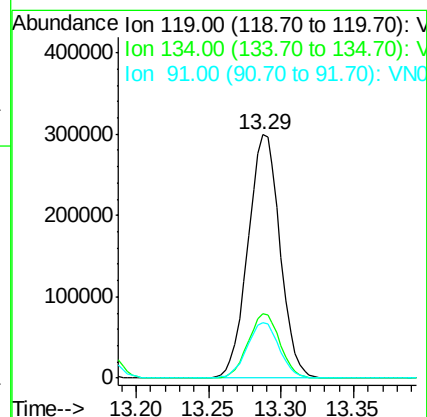
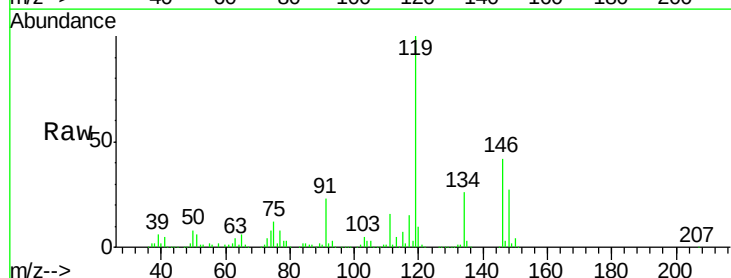
Tgt Ion:119 Resp: 458388

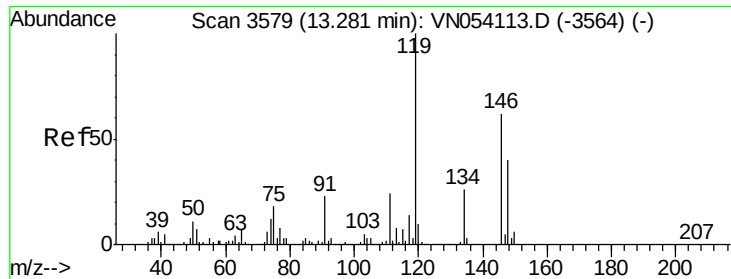
Ion Ratio Lower Upper

119 100

134 26.4 13.2 39.5

91 23.1 11.4 34.2





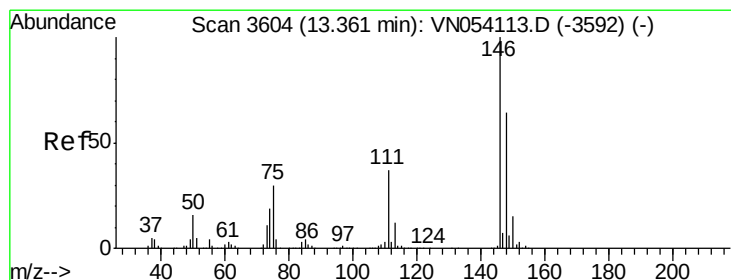
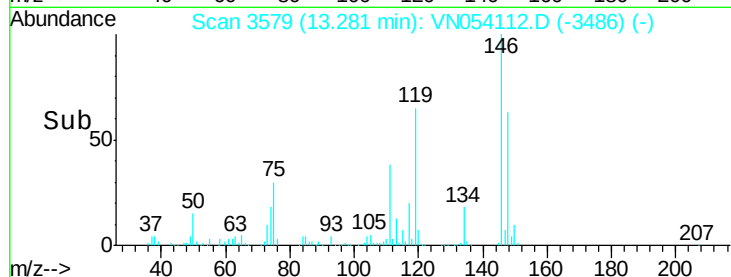
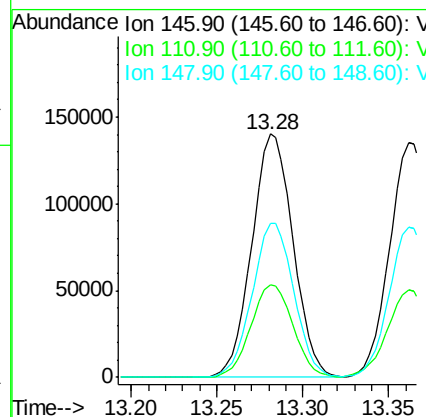
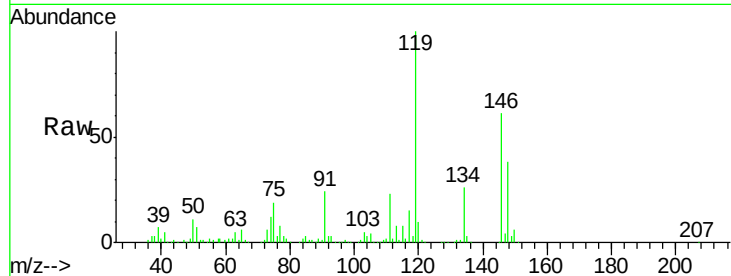
#87
 1,3-Dichlorobenzene
 Concen: 18.799 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	233778		
111	38.9	19.3	57.8	
148	63.7	32.4	97.0	

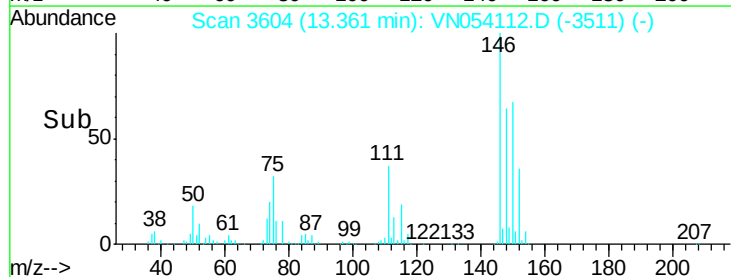
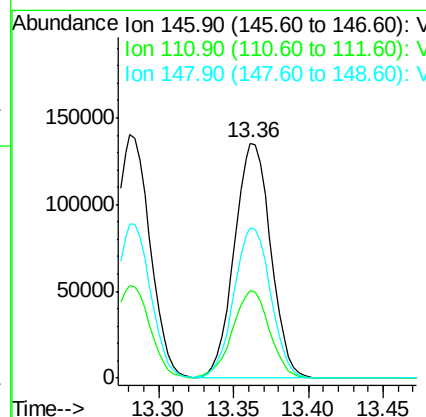
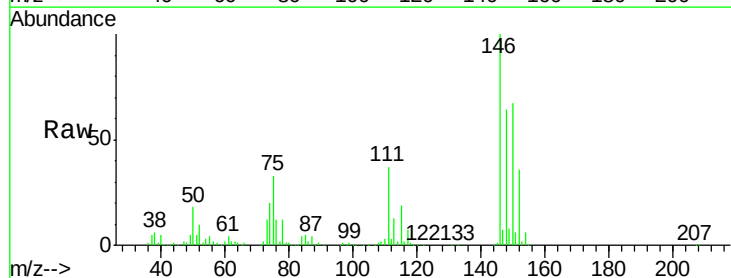
Manual Integrations
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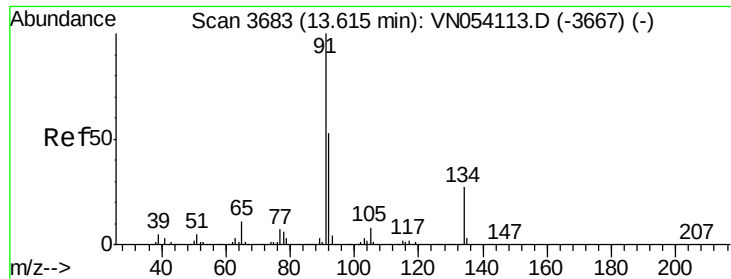
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 3/7/2019 11:38:02 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.579 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	229292		
111	38.0	18.9	56.5	
148	64.9	32.1	96.5	





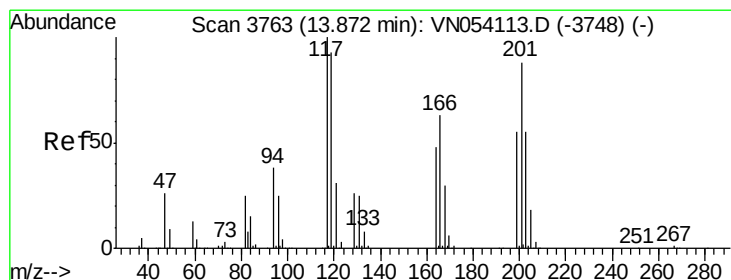
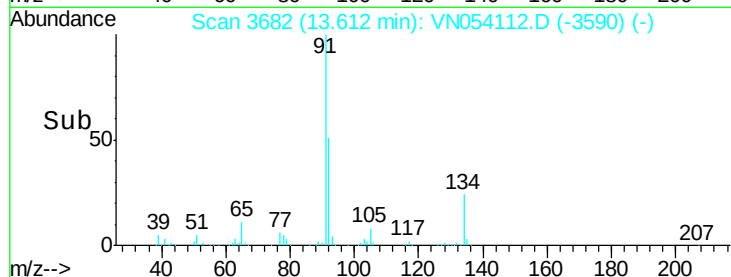
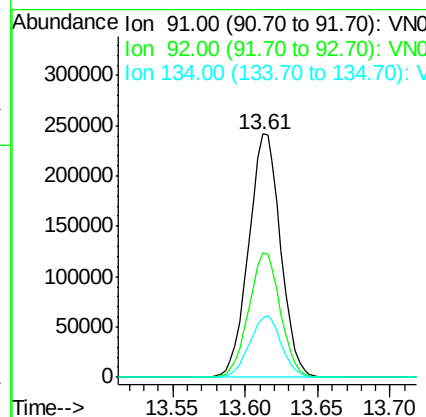
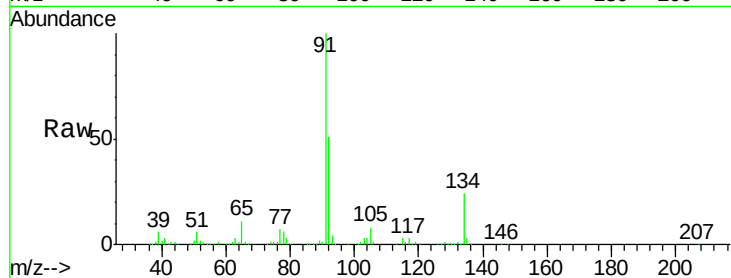
#89
n-Butylbenzene
Concen: 18.809 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.7	26.0	78.0
134	25.2	13.1	39.1

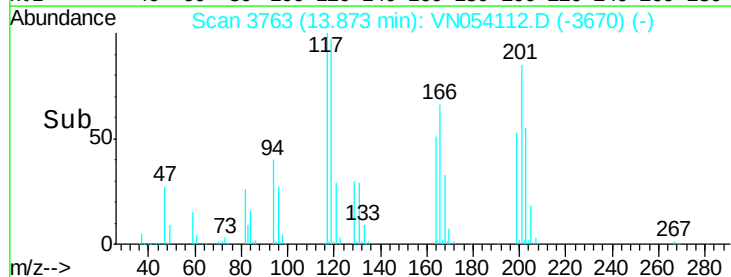
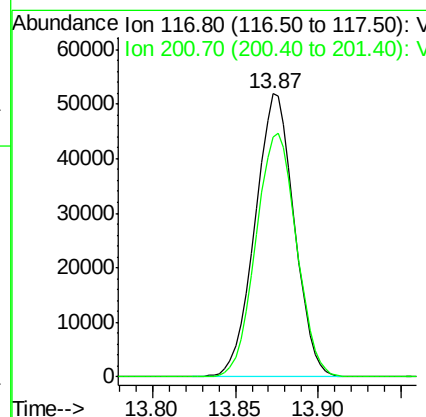
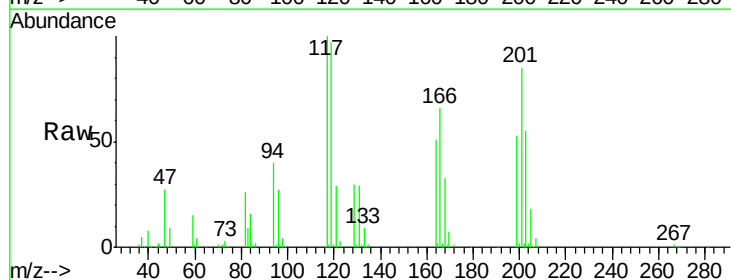
Manual Integrations
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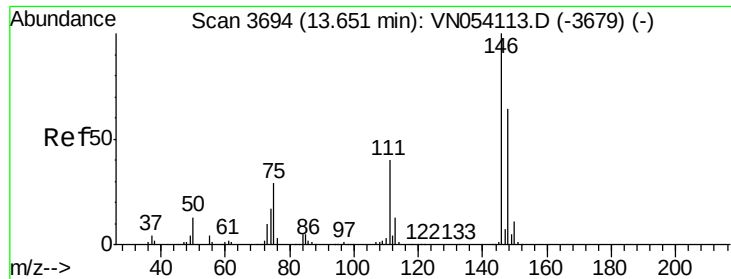
MMDadoda
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#90
Hexachloroethane
Concen: 19.103 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054112.D
Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.0	44.9	134.7





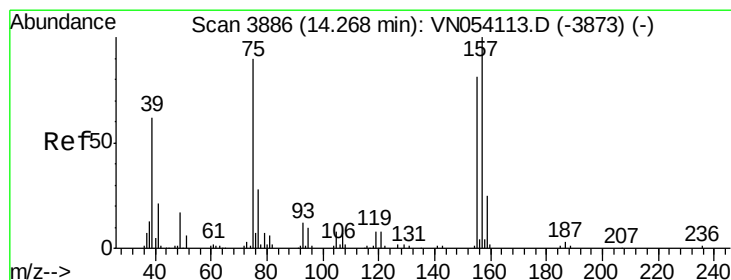
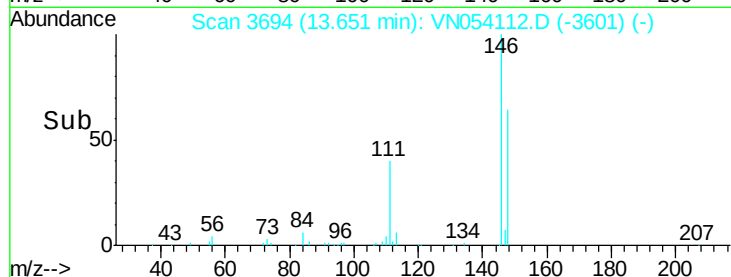
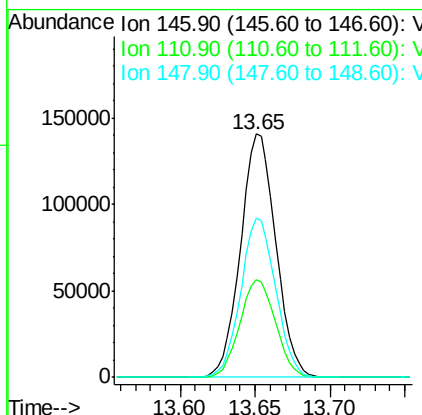
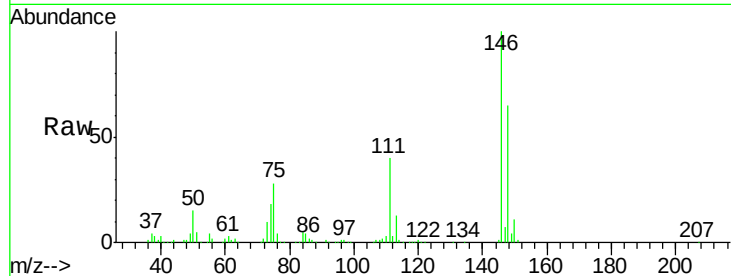
#91
 1,2-Dichlorobenzene
 Concen: 18.674 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.0	60.0
148	64.8	32.3	96.9

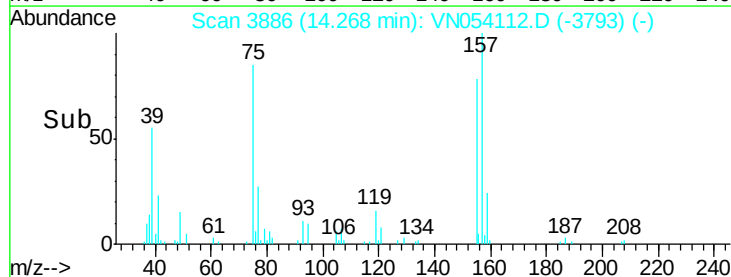
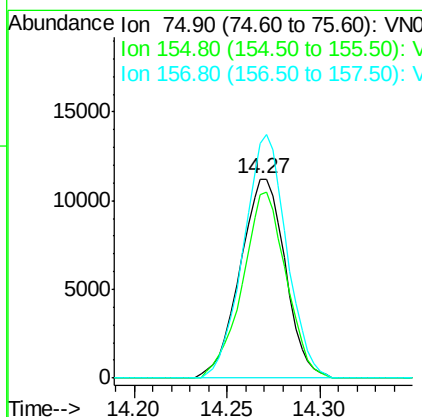
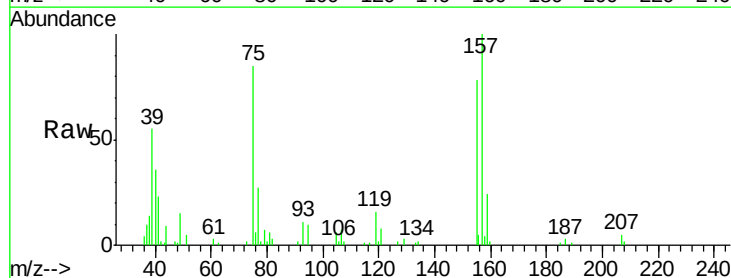
Manual Integrations
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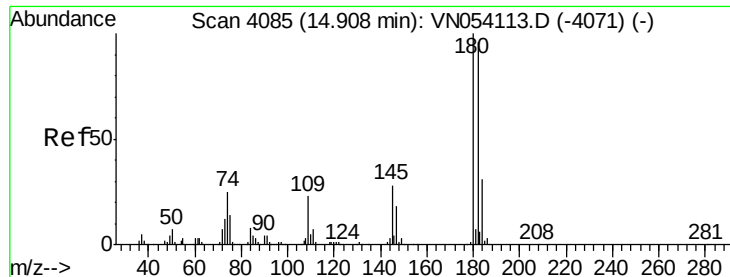
MMDadoda
 3/7/2019 11:38:02 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.426 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.8	44.5	133.5
157	116.6	57.2	171.6





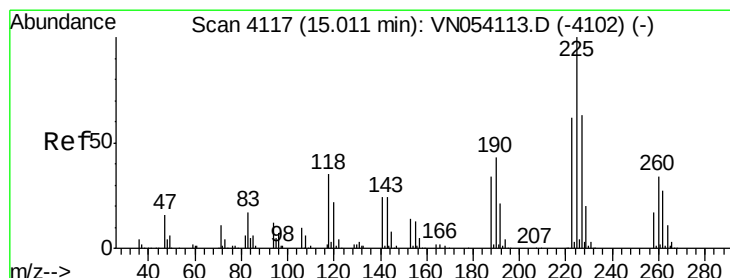
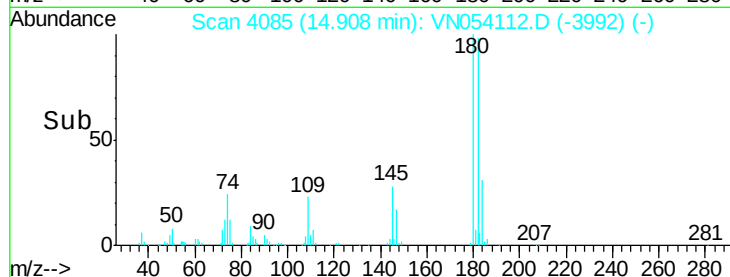
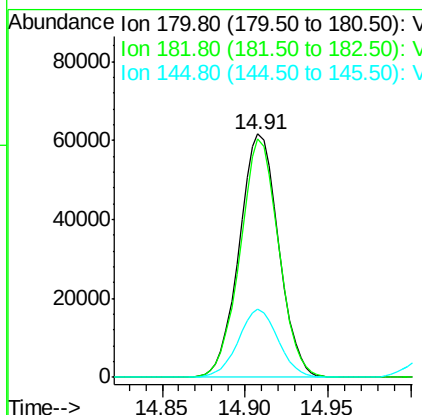
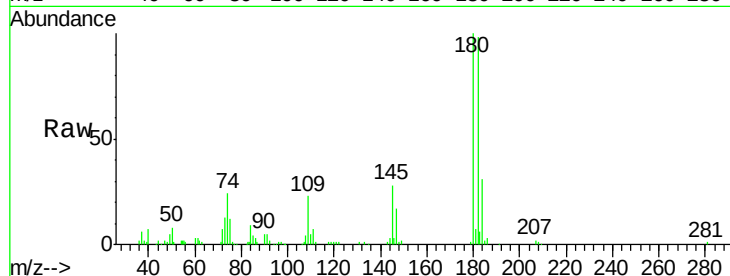
#93
 1,2,4-Trichlorobenzene
 Concen: 17.213 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion:	180	Resp:	101721
Ion Ratio	Lower	Upper	
180	100		
182	95.5	48.1	144.3
145	28.3	13.9	41.7

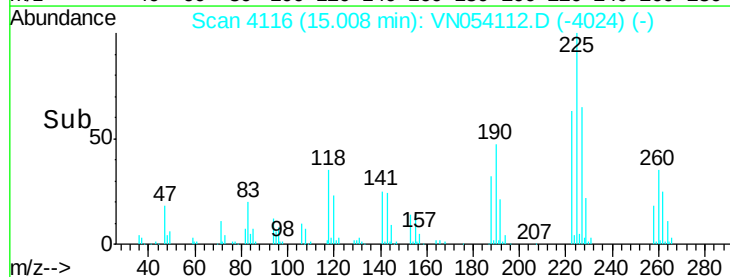
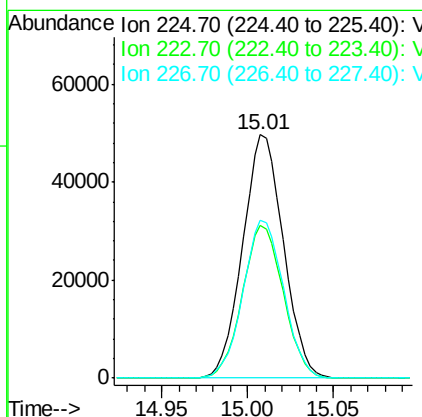
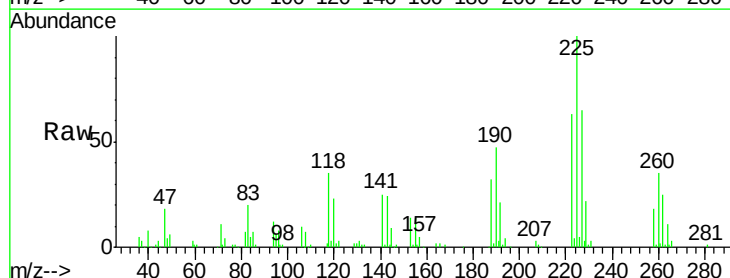
Manual Integrations
 APPROVED

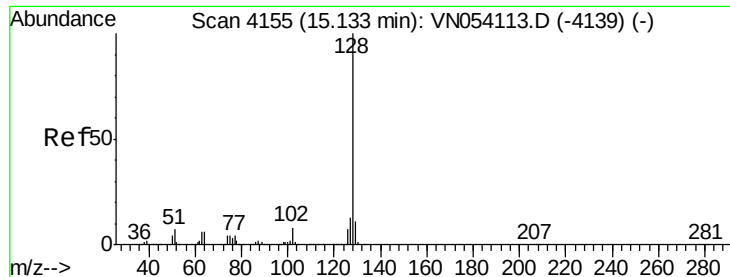
MMDadoda
 3/7/2019 11:38:02 AM



#94
 Hexachlorobutadiene
 Concen: 18.483 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054112.D
 Acq: 6 Mar 2019 11:02

Tgt Ion:	225	Resp:	81897
Ion Ratio	Lower	Upper	
225	100		
223	62.6	31.2	93.6
227	64.3	31.9	95.7





#95

Naphthalene

Concen: 15.666 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Instrument :

MSVOA_N

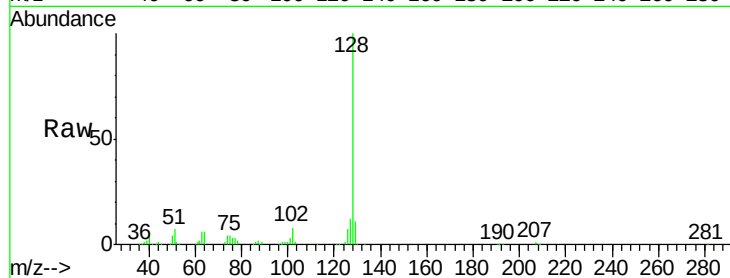
ClientSampled :

VSTDIC020

Tot Ion:	128	Resp:	190942
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.4	15.6
129	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/7/2019 11:38:02 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

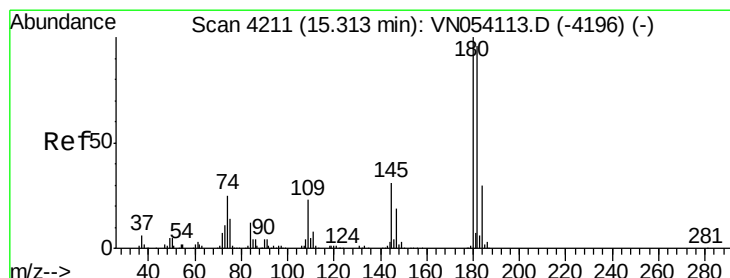
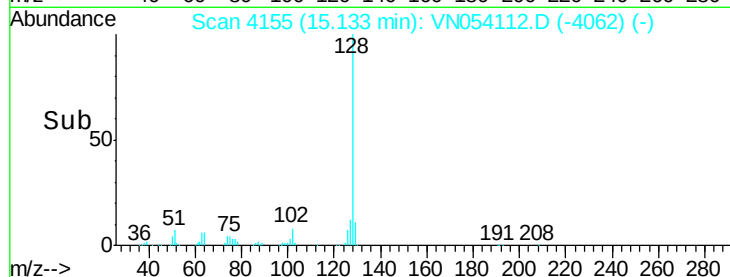
15.13

100000

50000

0

Time--> 15.05 15.10 15.15 15.20



#96

1,2,3-Trichlorobenzene

Concen: 17.327 ug/l

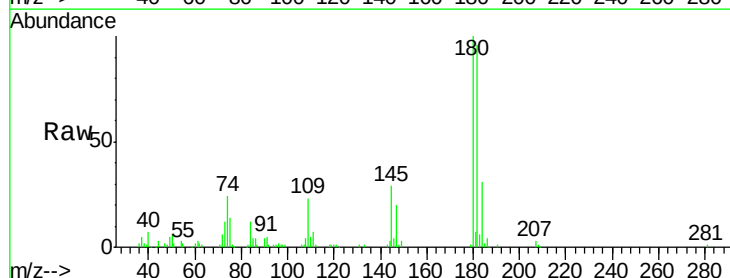
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054112.D

Acq: 6 Mar 2019 11:02

Tgt Ion:	180	Resp:	103057
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.9	143.7
145	29.2	14.9	44.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.31

60000

40000

20000

0

Time--> 15.25 15.30 15.35 15.40

