

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054029.D
 Acq On : 1 Mar 2019 15:04
 Operator : JC/SP
 Sample : VN0301WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0301WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:55 AM

Quant Time: Mar 02 00:09:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	119958	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	638726	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	553437	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	251233	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	12.40	95	244551	28.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.23%
63) Toluene-d8	10.09	98	815067	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	135989	20.050	ug/l 99
3) Chloromethane	2.06	50	184707	20.473	ug/l 100
4) Vinyl Chloride	2.19	62	185105	20.489	ug/l 97
5) Bromomethane	2.57	94	112734	20.285	ug/l 100
6) Chloroethane	2.71	64	108901	20.473	ug/l 99
7) Trichlorofluoromethane	3.02	101	226667	20.650	ug/l 99
8) Diethyl Ether	3.41	74	83896	20.323	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	141175	20.005	ug/l 97
10) 1,1-Dichloroethene	3.74	96	133734	20.225	ug/l 99
11) Methyl Iodide	3.96	142	191987	19.575	ug/l 98
12) Methyl Acetate	4.33	43	116996	20.986	ug/l 98
13) Acrolein	3.61	56	69188	125.143	ug/l 100
14) Acrylonitrile	4.99	53	274393	102.422	ug/l 98
15) Acetone	3.82	58	66092	85.604	ug/l 97
16) Carbon Disulfide	4.06	76	424718	19.798	ug/l 100
17) Allyl chloride	4.33	41	226026	19.329	ug/l 99
18) Methylene Chloride	4.55	84	160568	21.030	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	143326	19.980	ug/l 98
20) Diisopropyl ether	5.95	45	480812	20.554	ug/l 95
21) 1,1-Dichloroethane	5.85	63	288694	20.897	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	163419	20.464	ug/l 97
23) tert-Butyl Alcohol	4.78	59	47913	99.850	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	371470	20.752	ug/l 100
25) Chloroform	7.37	83	274676	20.606	ug/l 100
26) Cyclohexane	7.65	56	256990	20.440	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	210026	20.992	ug/l 98
30) 2-Butanone	6.83	43	308083	97.528	ug/l 99
31) 2,2-Dichloropropane	6.83	77	196448	19.913	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	226668	21.063	ug/l 99
33) Carbon Tetrachloride	7.78	117	197751	20.754	ug/l 97
34) Benzene	8.04	78	627195	21.094	ug/l 99
35) Methacrylonitrile	7.18	41	76046	21.530	ug/l 87
36) 1,2-Dichloroethane	8.13	62	201654	21.120	ug/l 99
37) Trichloroethene	8.84	130	160102	20.627	ug/l 98
38) Methylcyclohexane	9.08	83	234187	19.832	ug/l 98
39) 1,2-Dichloropropane	9.12	63	171624	21.070	ug/l 98
40) Dibromomethane	9.21	93	98511	21.096	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	206428	20.834	ug/l	99
42) Vinyl Acetate	5.90	43	1685073	103.254	ug/l	100
43) Ethyl Acetate	6.93	43	139030	21.012	ug/l #	70
44) Isopropyl Acetate	8.16	43	236153	20.340	ug/l	98
45) 1,4-Dioxane	9.20	88	29312	430.211	ug/l	92
46) Methyl methacrylate	9.20	41	111665	20.023	ug/l	95
47) n-amyl Acetate	12.07	43	155052	18.180	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	196007	19.730	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	233370	20.005	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	136524	20.842	ug/l	99
51) Ethyl methacrylate	10.43	69	155542	19.725	ug/l	98
52) 1,3-Dichloropropane	10.71	76	231919	20.629	ug/l	100
53) Dibromochloromethane	10.90	129	144937	20.137	ug/l	97
54) 1,2-Dibromoethane	11.01	107	125606	20.130	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	342818	93.683	ug/l	99
56) Bromoform	12.13	173	91773	19.203	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	637672	102.253	ug/l	98
59) 2-Hexanone	10.75	43	386237	94.795	ug/l	99
61) Tetrachloroethene	10.63	164	158800	20.640	ug/l	97
62) Toluene	10.16	91	650124	21.019	ug/l	100
64) Chlorobenzene	11.43	112	384320	20.405	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	143983	20.820	ug/l	99
66) Ethyl Benzene	11.51	91	656374	20.302	ug/l	100
67) m/p-Xylenes	11.62	106	502219	41.259	ug/l	99
68) o-Xylene	11.95	106	240581	20.389	ug/l	99
69) Styrene	11.96	104	375214	20.082	ug/l	98
70) Isopropylbenzene	12.25	105	633691	20.462	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	155176	20.301	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	128800m	22.192	ug/l	
73) Bromobenzene	12.53	156	152931	19.586	ug/l	99
74) n-propylbenzene	12.59	91	726562	19.702	ug/l	100
75) 2-Chlorotoluene	12.67	91	433010	20.051	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	516415	19.685	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	36122	17.489	ug/l	94
78) 4-Chlorotoluene	12.77	91	418986	19.389	ug/l	99
79) tert-butylbenzene	12.99	119	450340	19.591	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	515759	19.754	ug/l	100
81) sec-Butylbenzene	13.17	105	608881	19.313	ug/l	99
82) p-Isopropyltoluene	13.29	119	506733	18.824	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	254573	18.485	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	240803	18.313	ug/l	99
85) n-Butylbenzene	13.62	91	393627	16.777	ug/l	100
86) Hexachloroethane	13.88	117	93179	18.514	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	255921	19.161	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20993	18.982	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	103257	15.217	ug/l	99
90) Hexachlorobutadiene	15.01	225	82591	16.752	ug/l	99
91) Naphthalene	15.13	128	203732	17.981	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	107044	15.975	ug/l	98

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ClientSampleId :
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QLast Update : Fri Mar 01 11:11:48 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

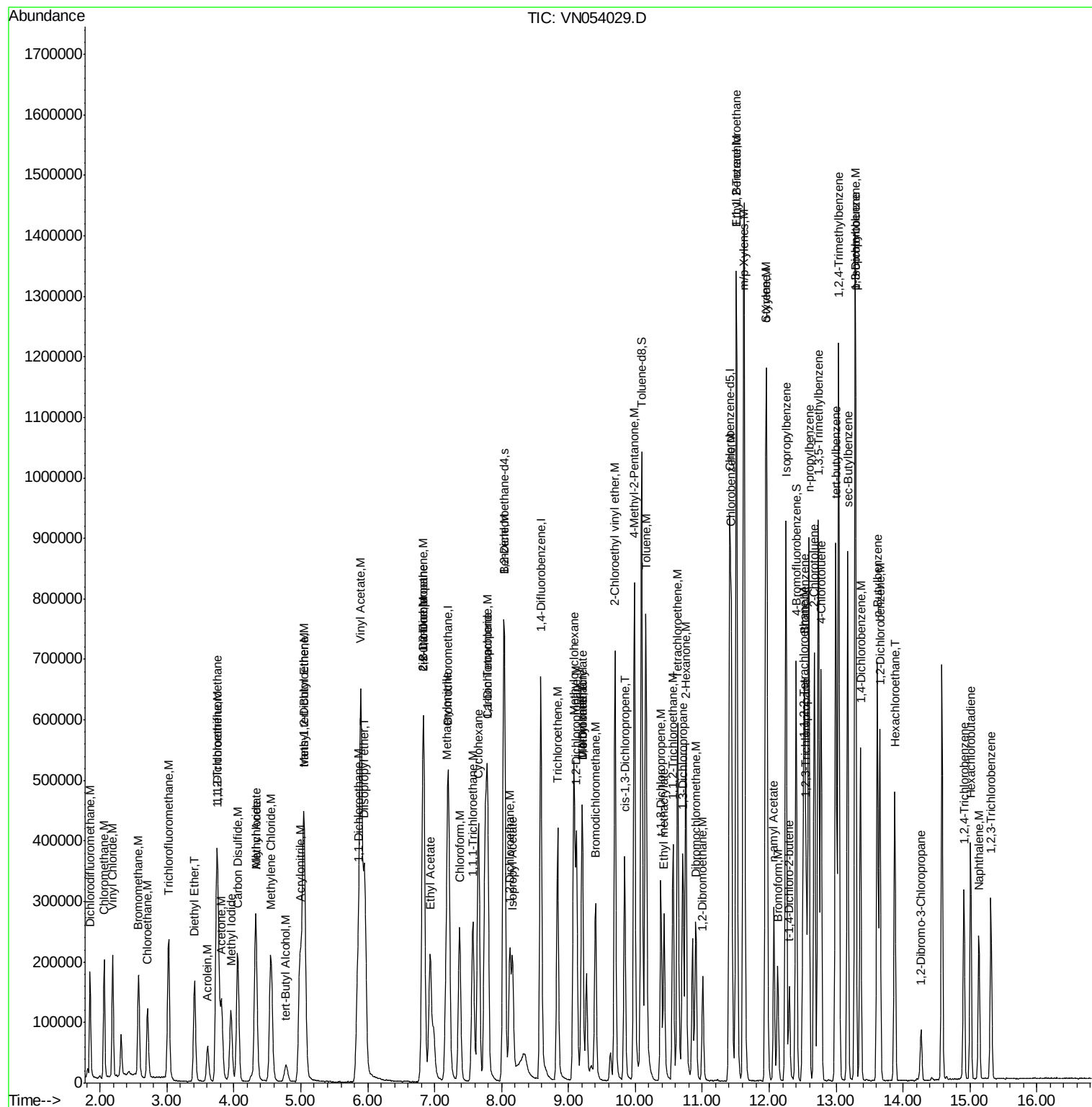
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
Data File : VN054029.D
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Operator : JC/SP
Sample : VN0301WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

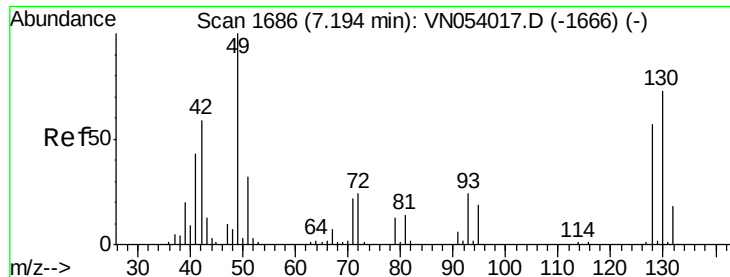
Instrument :
MSVOA_N
Client Sampled :
VN0301WBSD01

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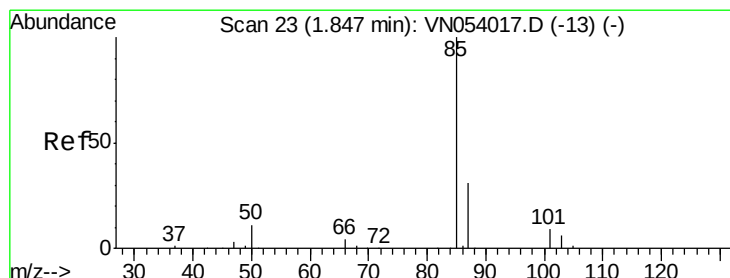
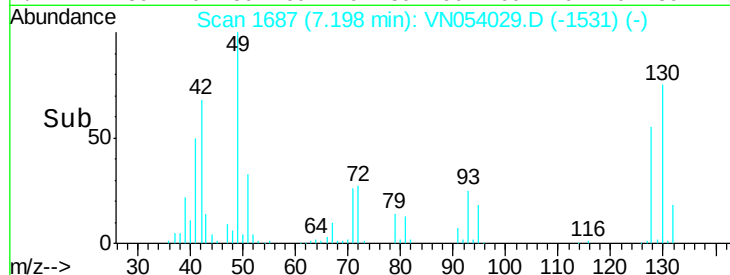
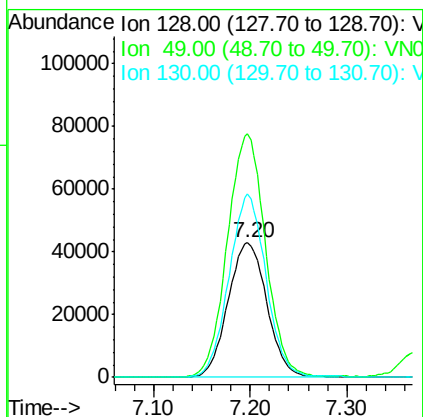
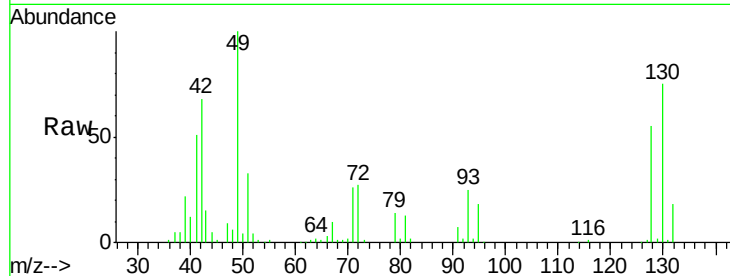
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
49	177.6	0.0	431.8
130	129.5	0.0	317.0

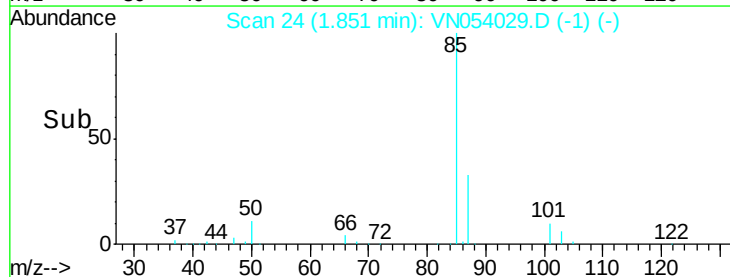
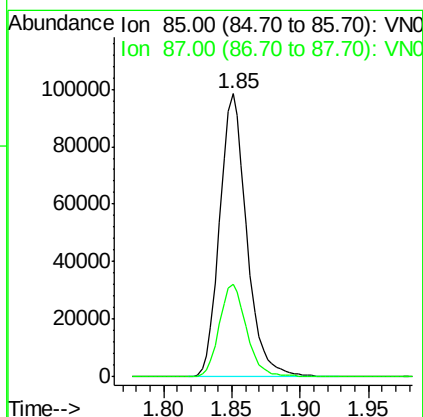
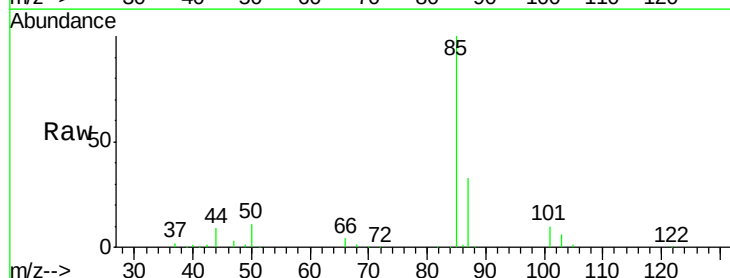
Manual Integrations
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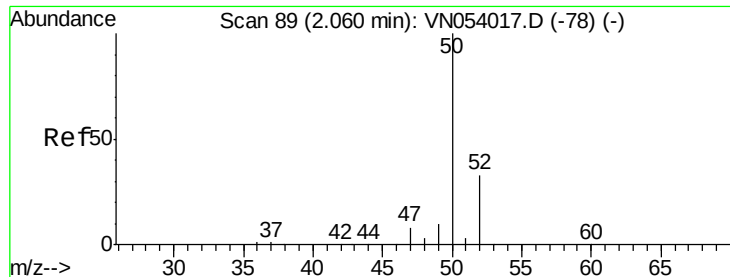
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#2
Dichlorodifluoromethane
Concen: 20.050 ug/l
RT: 1.85 min Scan# 24
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.1	48.3





#3

Chloromethane

Concen: 20.473 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion: 50 Resp: 184707

Ion Ratio Lower Upper

50 100

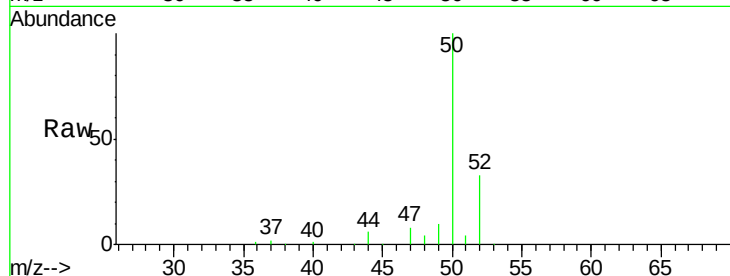
52 33.1 26.5 39.7

Manual Integrations

APPROVED

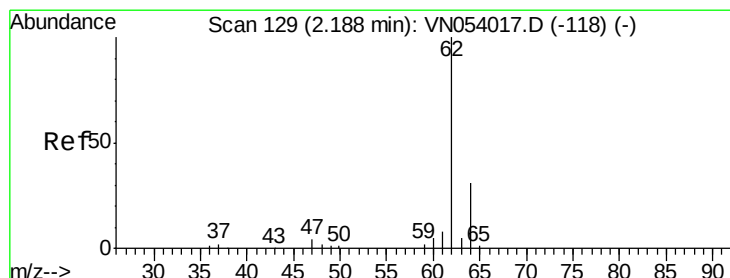
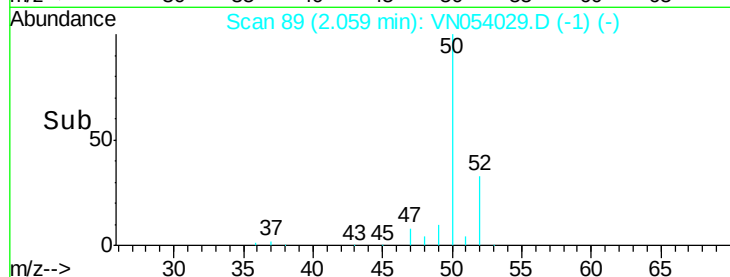
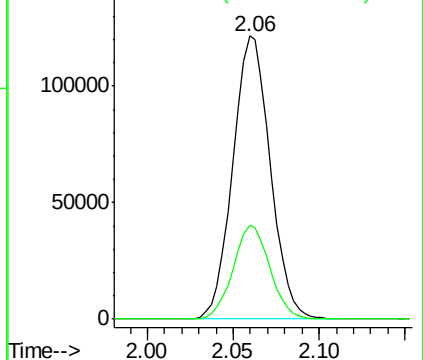
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 20.489 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054029.D

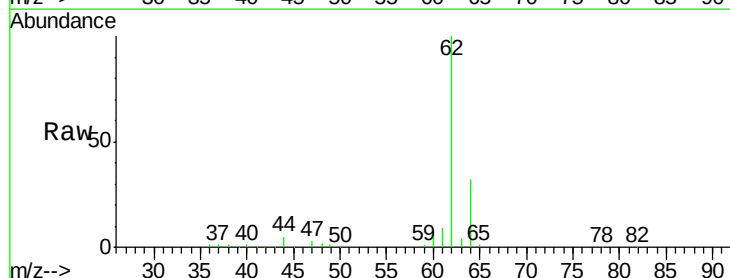
Acq: 1 Mar 2019 15:04

Tgt Ion: 62 Resp: 185105

Ion Ratio Lower Upper

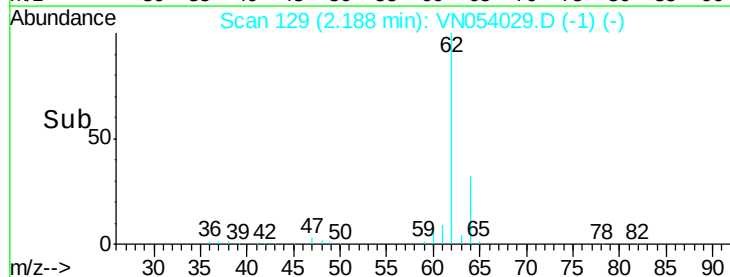
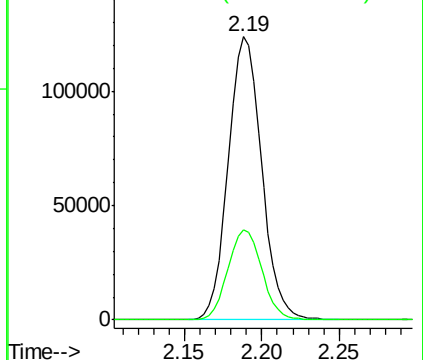
62 100

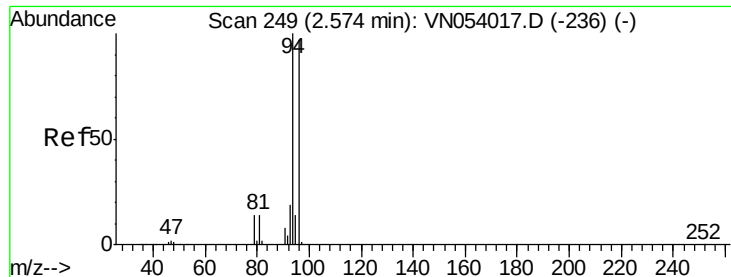
64 32.0 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 20.285 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion: 94 Resp: 112734

Ion Ratio Lower Upper

94 100

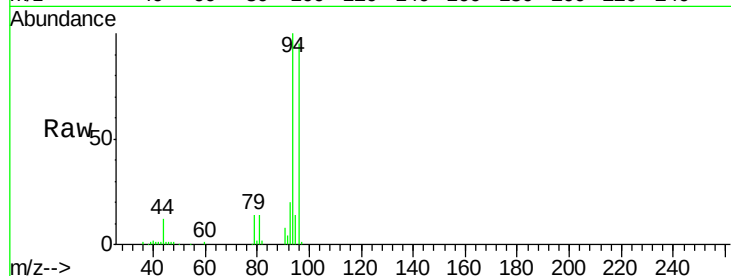
96 95.1 76.2 114.2

Manual Integrations

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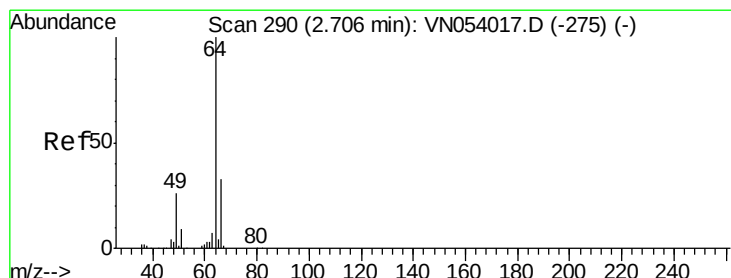
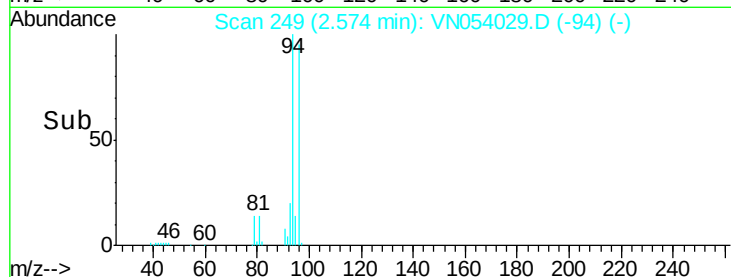
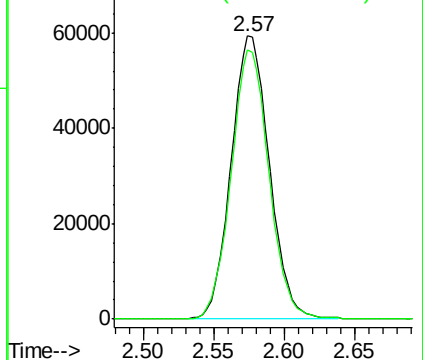
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.473 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054029.D

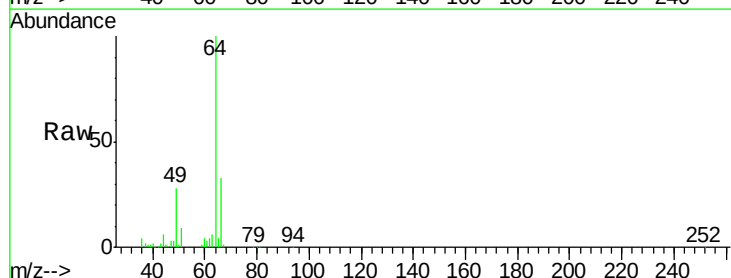
Acq: 1 Mar 2019 15:04

Tgt Ion: 64 Resp: 108901

Ion Ratio Lower Upper

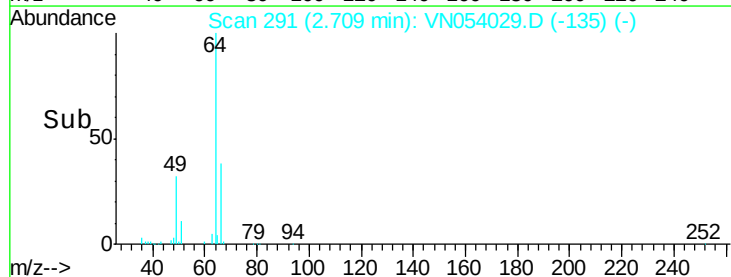
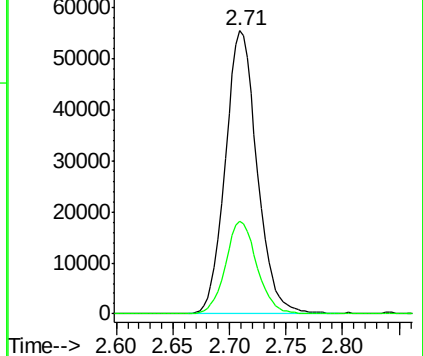
64 100

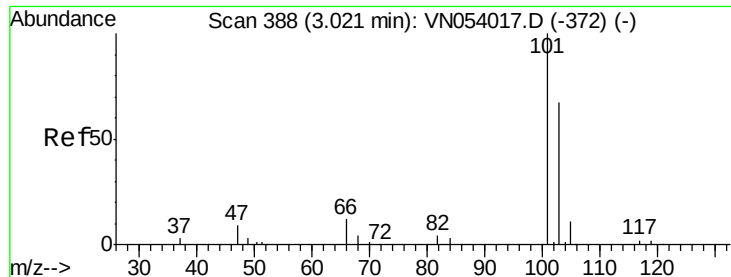
66 32.7 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

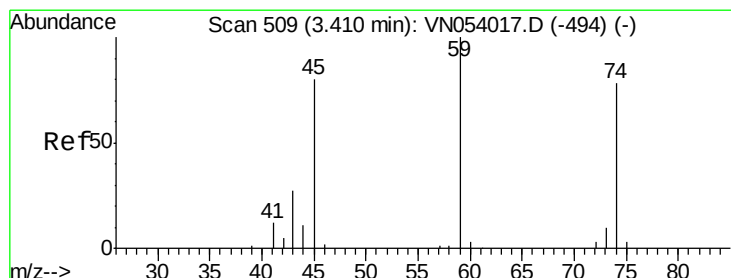
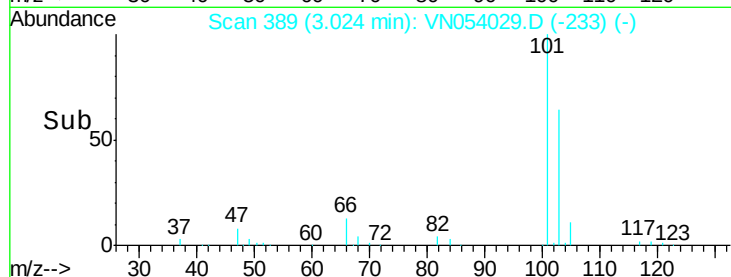
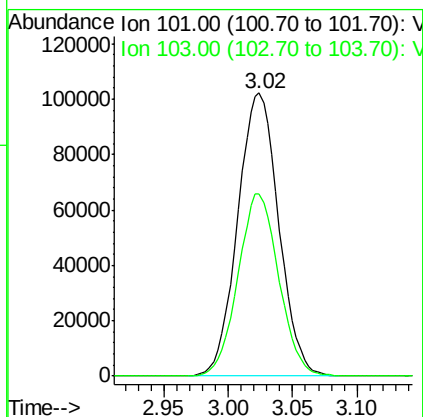
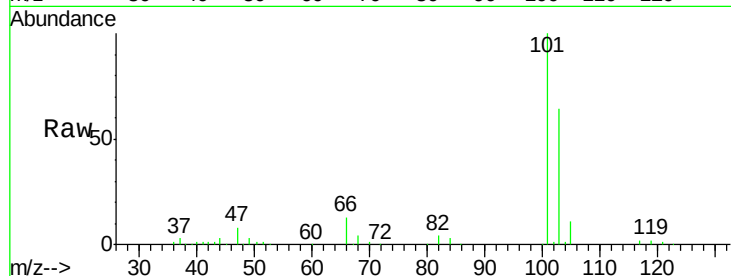
Trichlorofluoromethane
Concen: 20.650 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion:101 Resp: 226667
Ion Ratio Lower Upper
101 100
103 64.3 52.1 78.1

Manual Integrations
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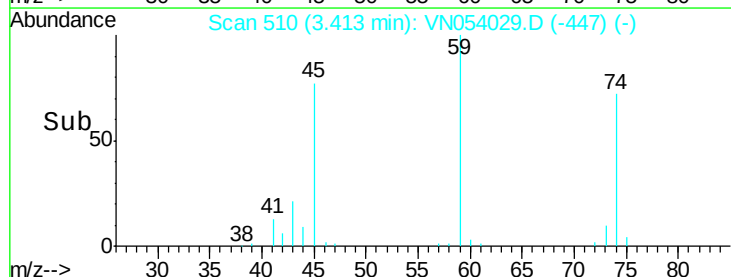
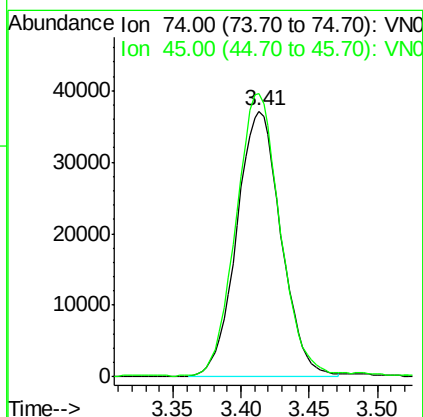
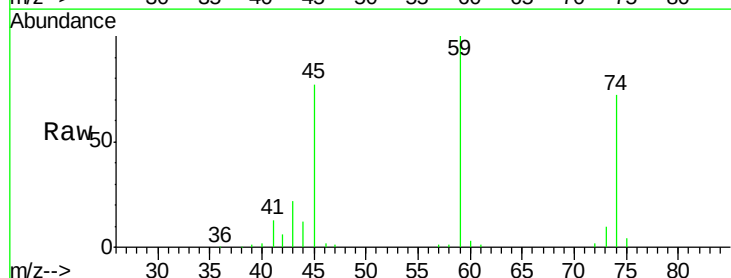
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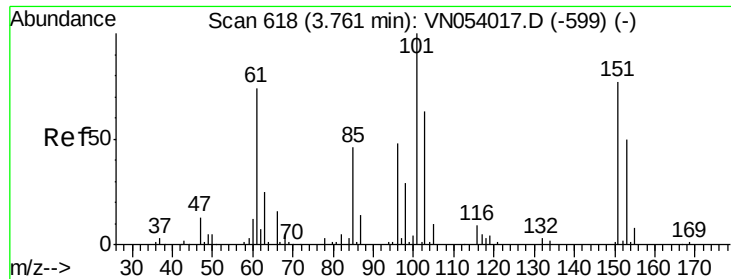


#8

Diethyl Ether
Concen: 20.323 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion: 74 Resp: 83896
Ion Ratio Lower Upper
74 100
45 105.5 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.005 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN054029.D

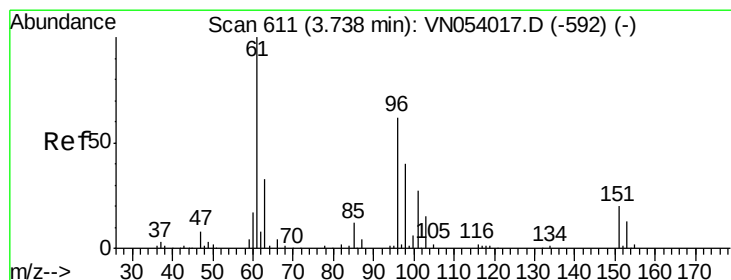
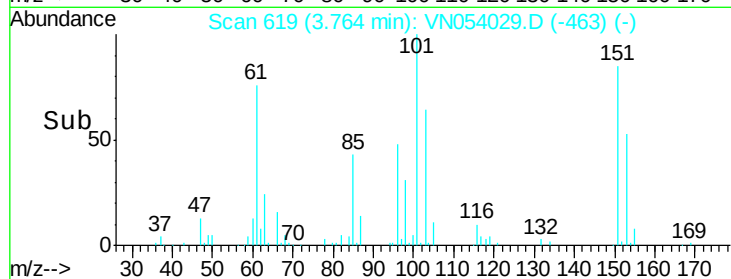
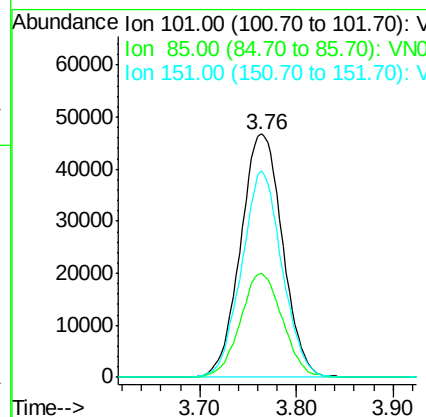
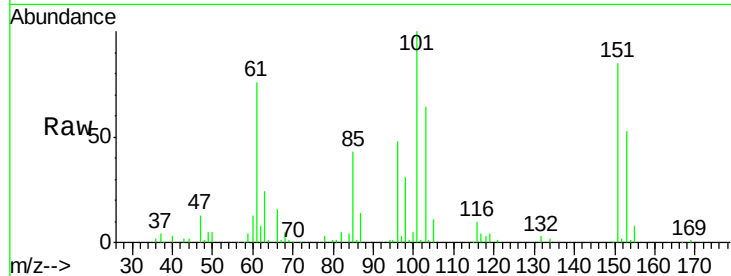
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ratio	Resp Lower	Upper
101	100		
85	42.7	0.0	82.6
151	81.7	0.0	158.4

Manual Integrations
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MMDadoda
3/6/2019 10:23:55 AM



#10

1,1-Dichloroethene

Concen: 20.225 ug/l

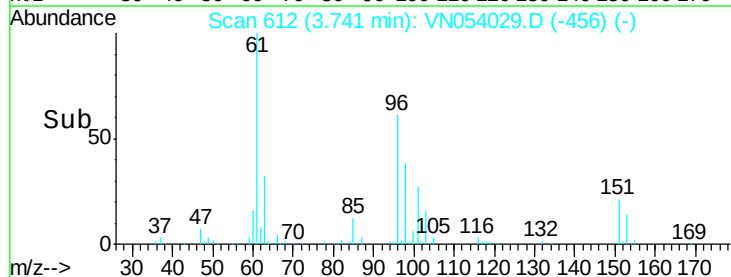
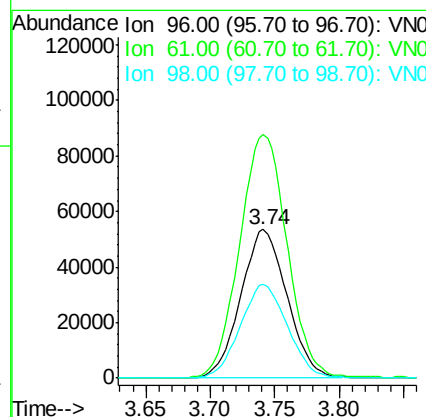
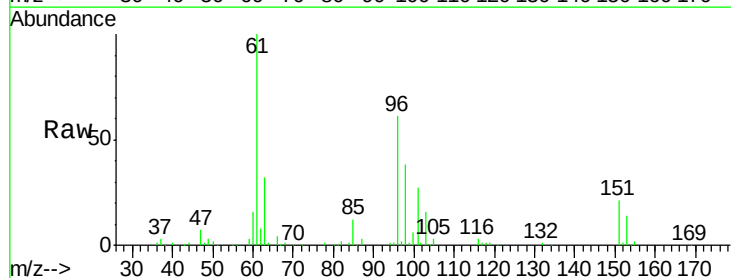
RT: 3.74 min Scan# 612

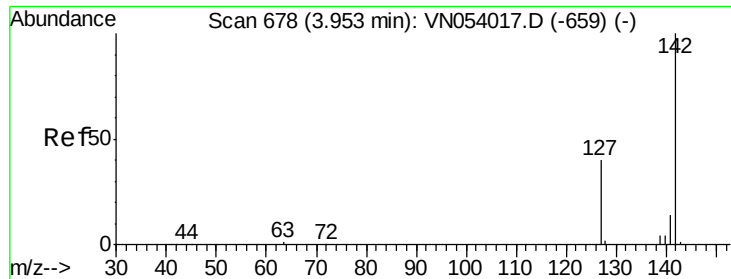
Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	162.9	129.4	194.2
98	62.8	50.4	75.6





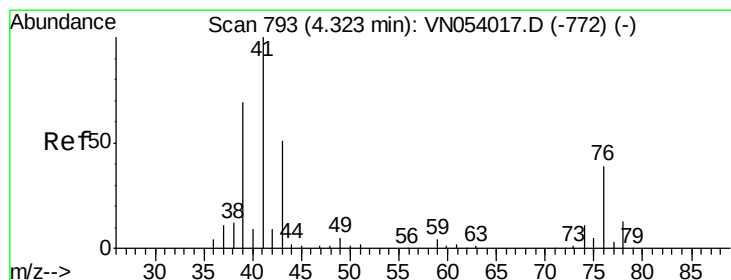
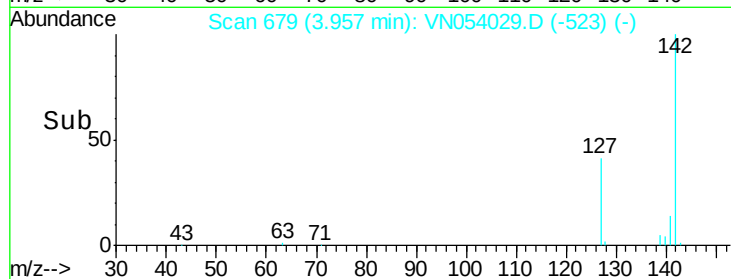
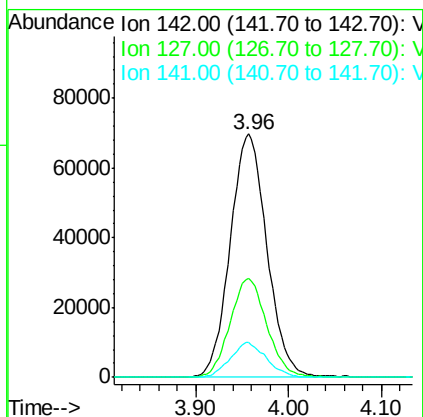
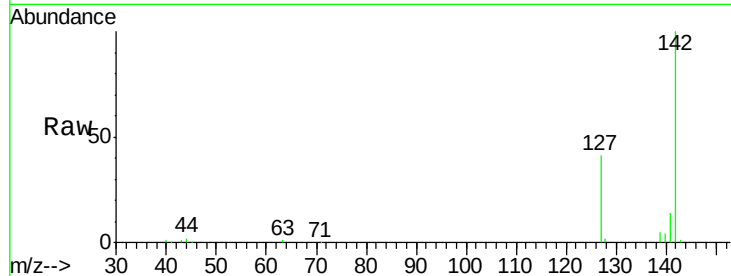
#11
Methvl Iodide
Concen: 19.575 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.5	19.4	58.1
141	14.0	7.2	21.6

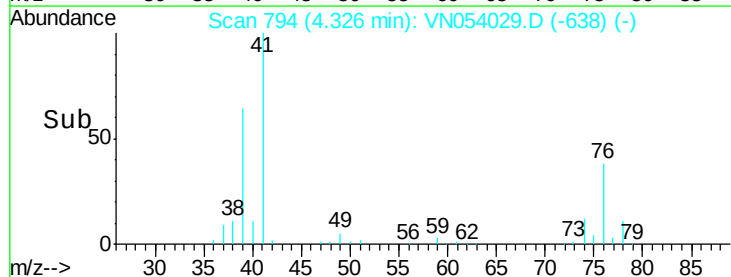
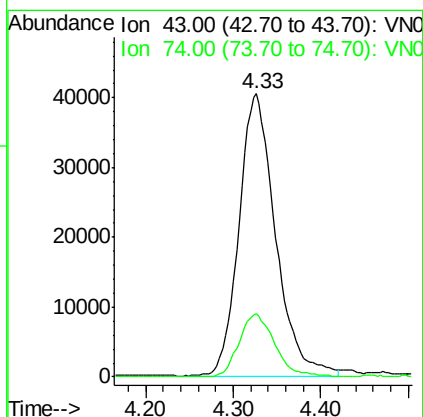
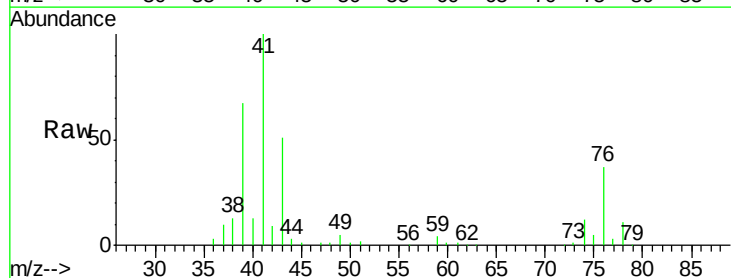
Manual Integrations
APPROVED

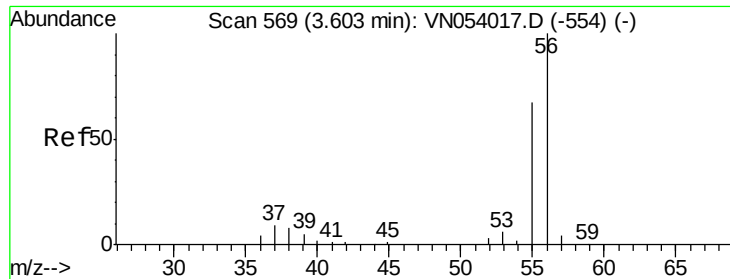
MMDadoda
3/6/2019 10:23:55 AM



#12
Methyl Acetate
Concen: 20.986 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.8	18.9	28.3





#13

Acrolein

Concen: 125.143 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion: 56 Resp: 69188

Ion Ratio Lower Upper

56 100

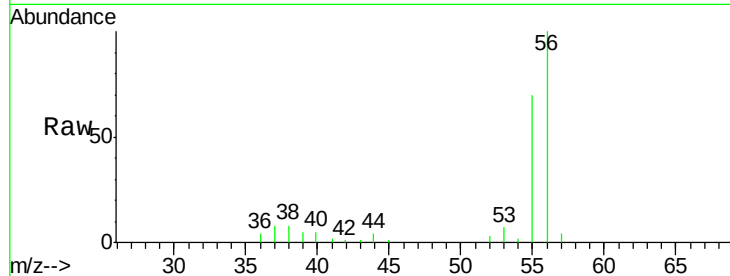
55 70.8 56.7 85.1

Manual Integrations

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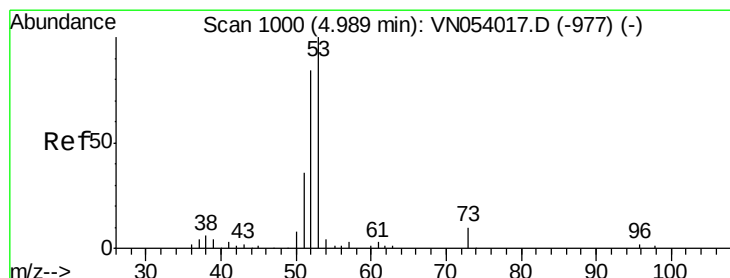
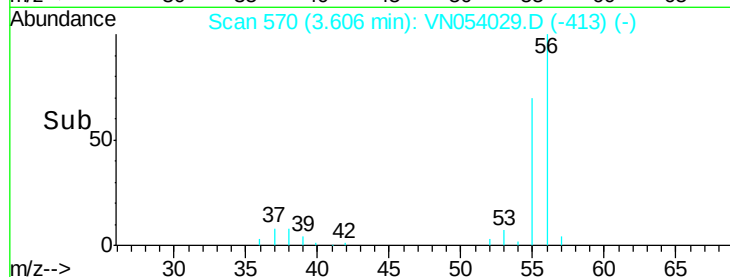
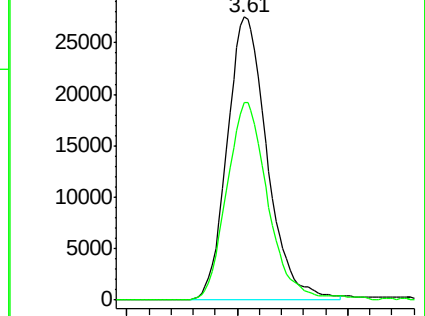
MMDadoda

3/6/2019 10:23:55 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 102.422 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

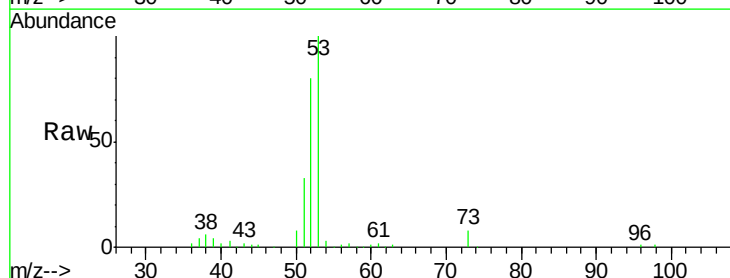
Tgt Ion: 53 Resp: 274393

Ion Ratio Lower Upper

53 100

52 81.2 39.9 119.7

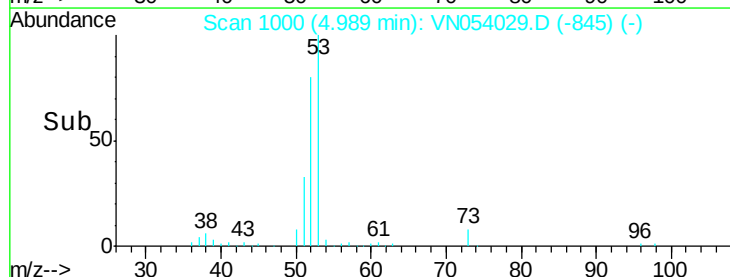
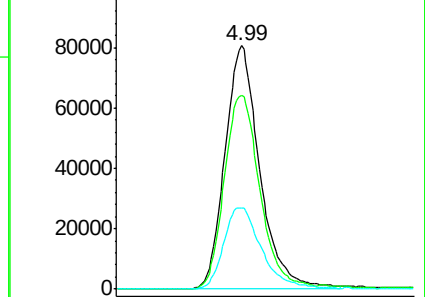
51 36.2 17.6 52.9

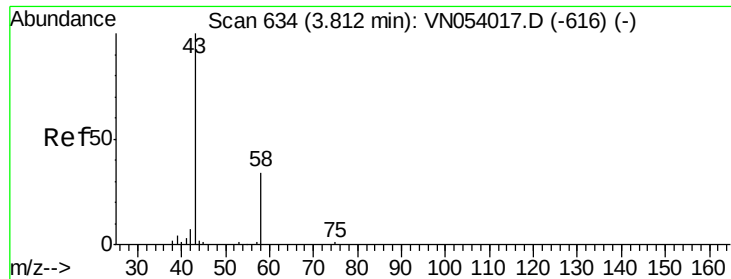


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 85.604 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

VN0301WBSD01

Tot Ion: 58 Resp: 66092

Ion Ratio Lower Upper

58 100

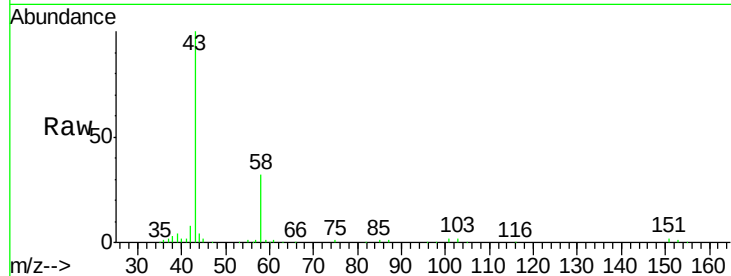
43 310.0 243.6 365.4

Manual Integrations

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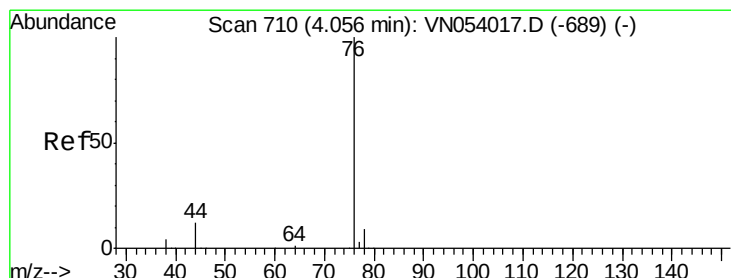
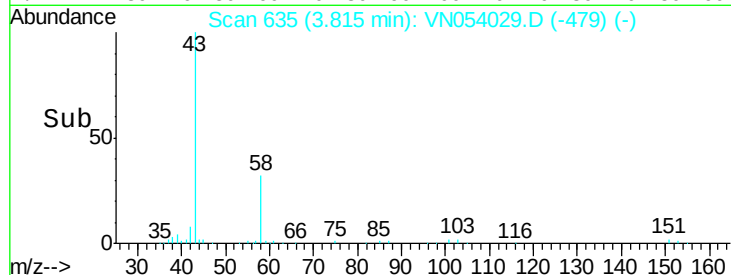
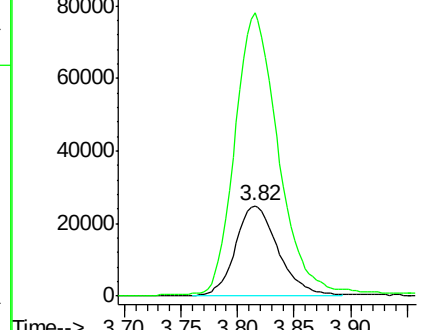
MMDadoda

3/6/2019 10:23:55 AM



Abundance Ion 58.00 (57.70 to 58.70): VN054029.D (-479) (-)

Ion 43.00 (42.70 to 43.70): VN054029.D (-479) (-)



#16

Carbon Disulfide

Concen: 19.798 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN054029.D

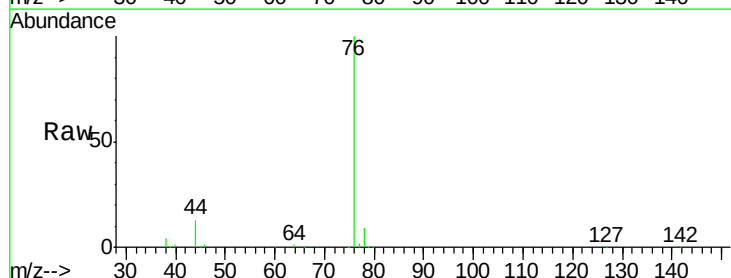
Acq: 1 Mar 2019 15:04

Tgt Ion: 76 Resp: 424718

Ion Ratio Lower Upper

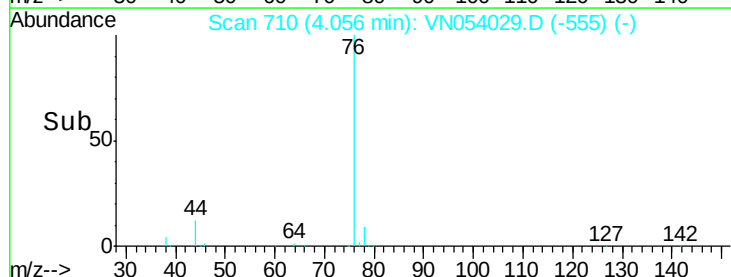
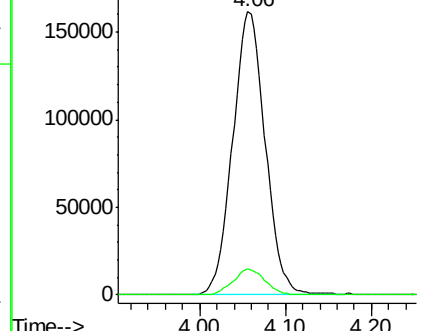
76 100

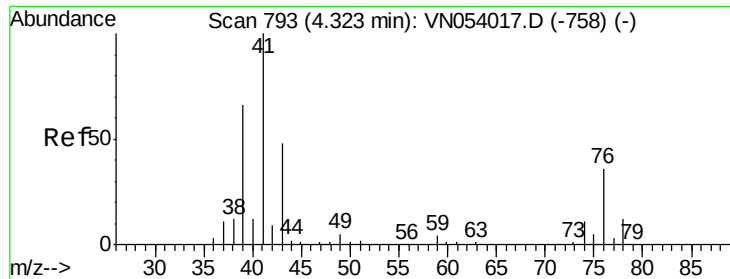
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN054029.D (-555) (-)

Ion 78.00 (77.70 to 78.70): VN054029.D (-555) (-)





#17

Allvl chloride

Concen: 19.329 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

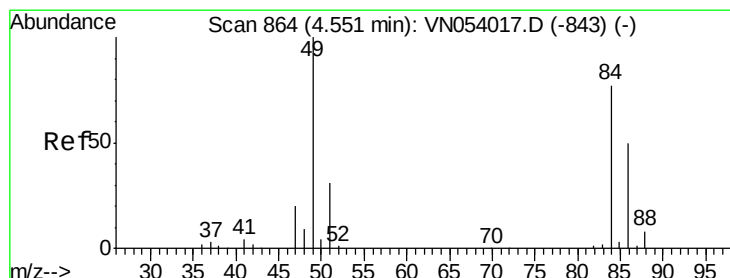
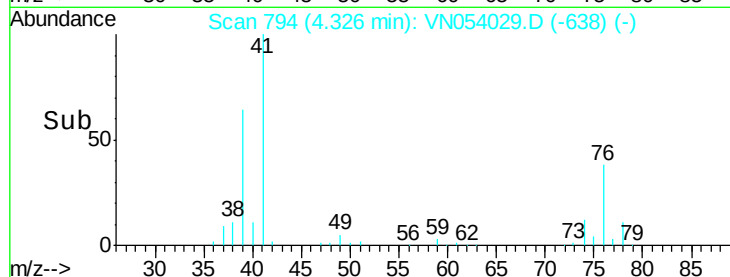
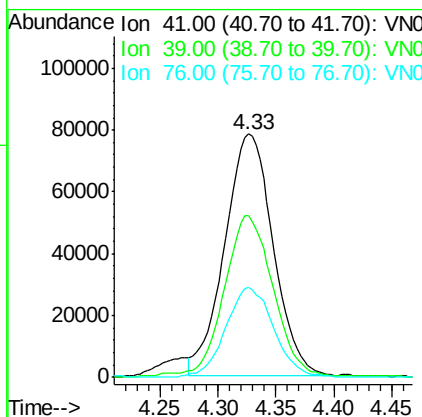
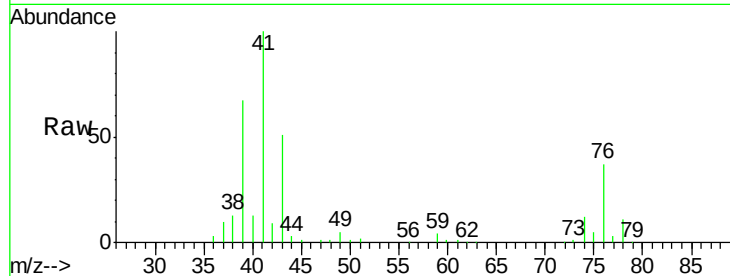
ClientSampled :

VN0301WBSD01

Tot Ion:	41	Resp:	226026
Ion	Ratio	Lower	Upper
41	100		
39	66.4	32.8	98.3
76	37.1	18.6	55.8

Manual Integrations
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#18

Methylene Chloride

Concen: 21.030 ug/l

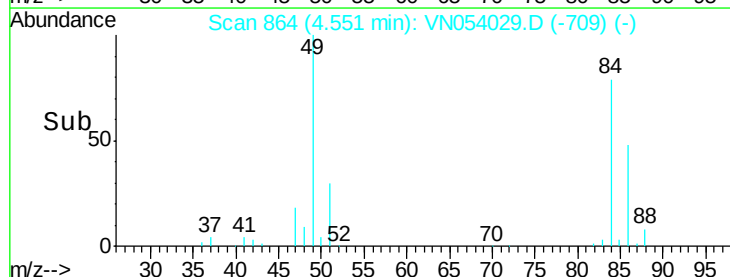
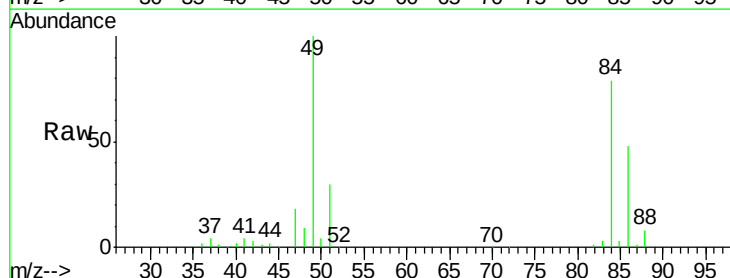
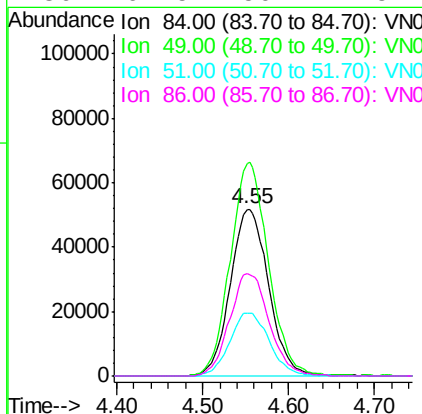
RT: 4.55 min Scan# 864

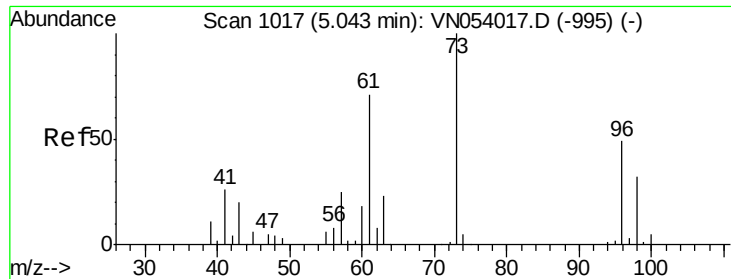
Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	84	Resp:	160568
Ion	Ratio	Lower	Upper
84	100		
49	127.3	101.4	152.0
51	37.6	31.7	47.5
86	61.5	50.1	75.1





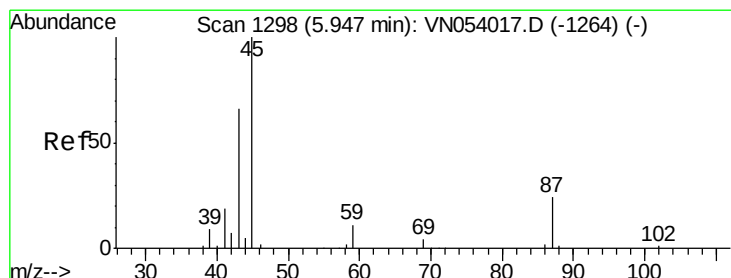
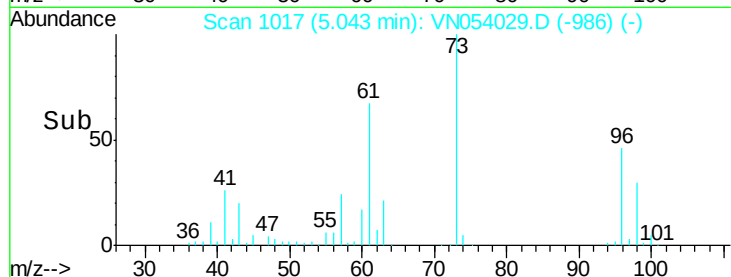
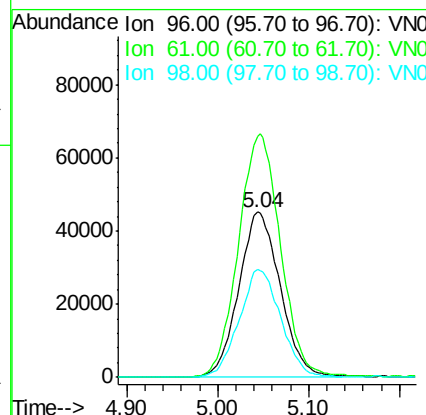
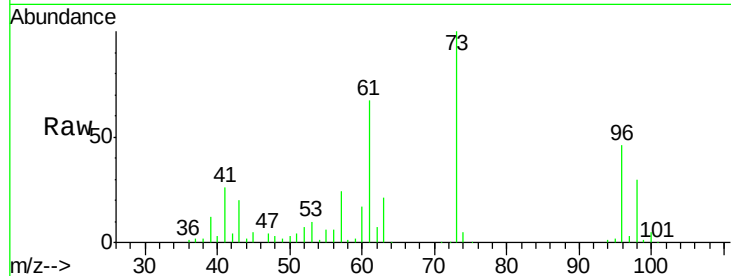
#19
trans-1,2-Dichloroethene
Concen: 19.980 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		143326		
61	145.3		118.2	177.4	
98	65.2		51.4	77.2	

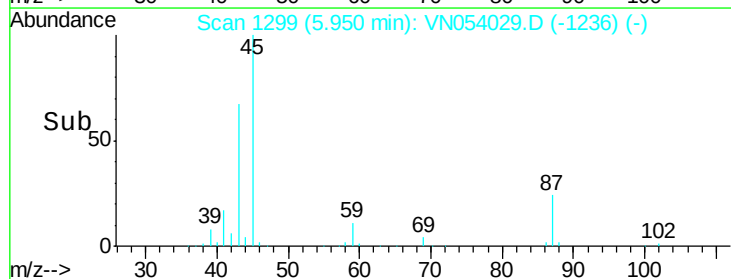
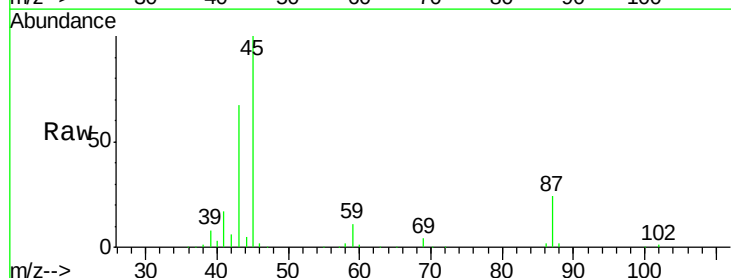
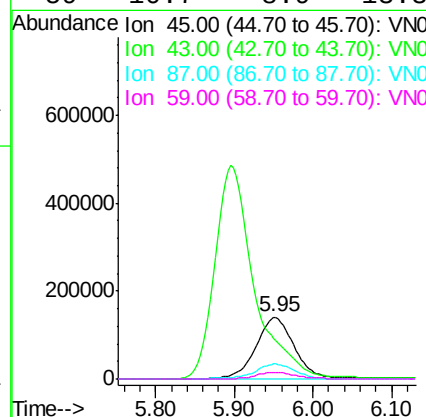
Manual Integrations
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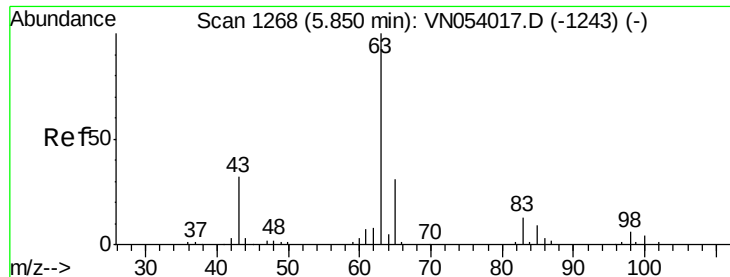
MMDadoda
3/6/2019 10:23:55 AM



#20
Diisopropyl ether
Concen: 20.554 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		480812		
43	63.6		47.8	71.8	
87	23.6		21.3	31.9	
59	10.7		8.9	13.3	





#21

1,1-Dichloroethane

Concen: 20.897 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

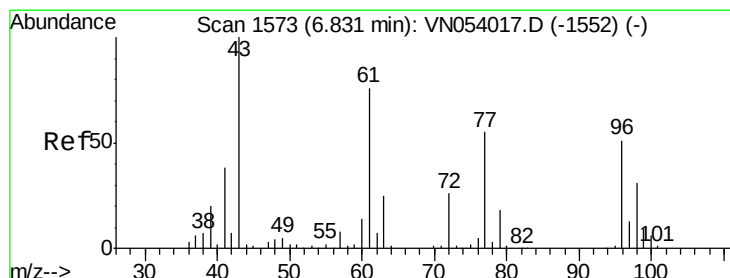
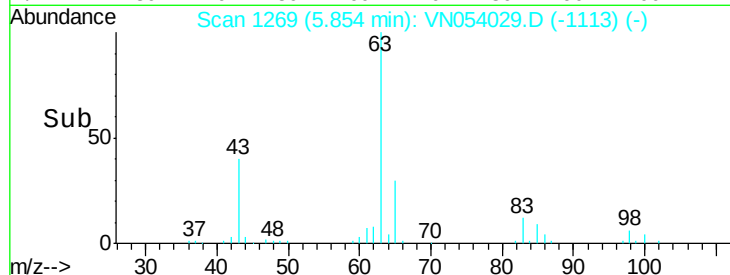
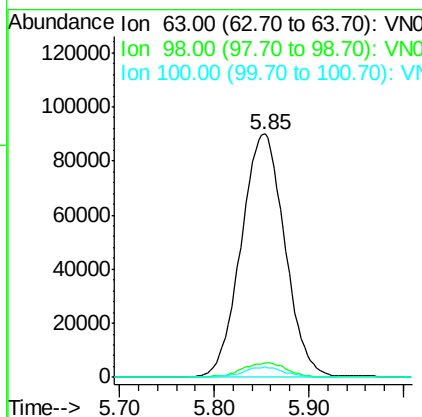
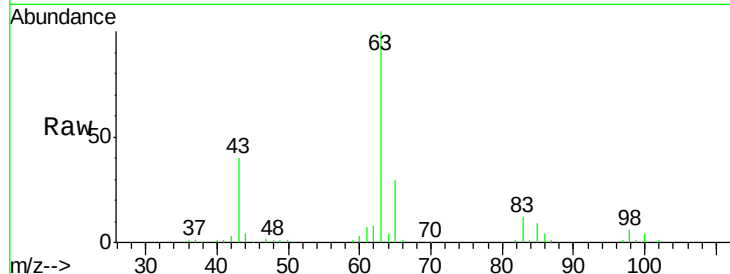
ClientSampleId :

VN0301WBSD01

Tot Ion:	63	Resp:	288694
Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.0	9.2
100	4.2	1.8	5.5

Manual Integrations
APPROVED

MMDadoda
3/6/2019 10:23:55 AM



#22

cis-1,2-Dichloroethene

Concen: 20.464 ug/l

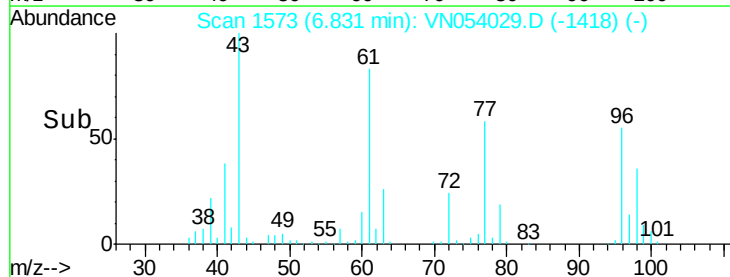
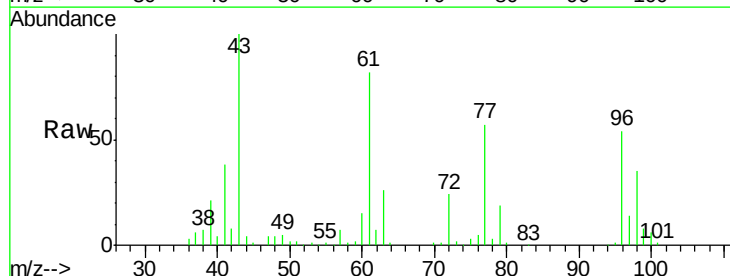
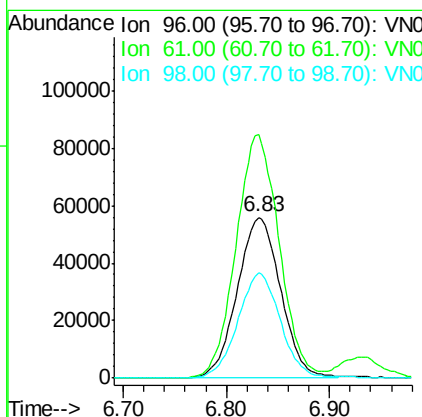
RT: 6.83 min Scan# 1573

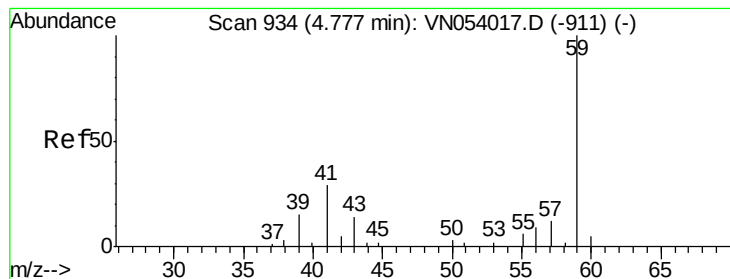
Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	96	Resp:	163419
Ion	Ratio	Lower	Upper
96	100		
61	150.5	116.7	175.1
98	64.1	50.8	76.2





#23

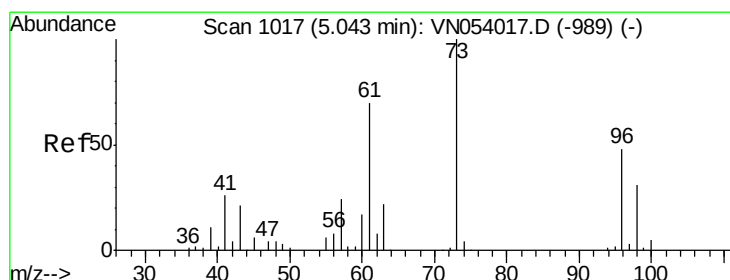
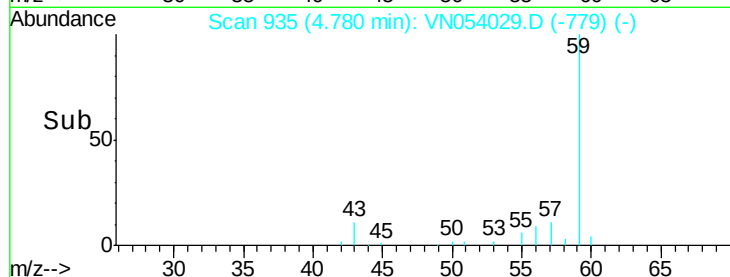
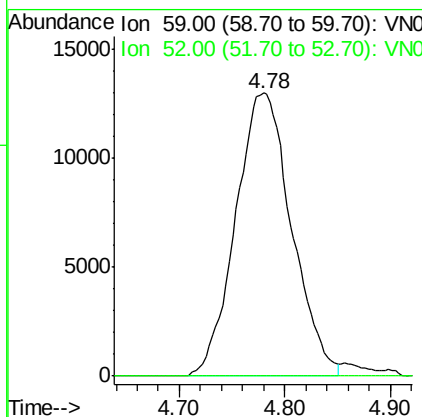
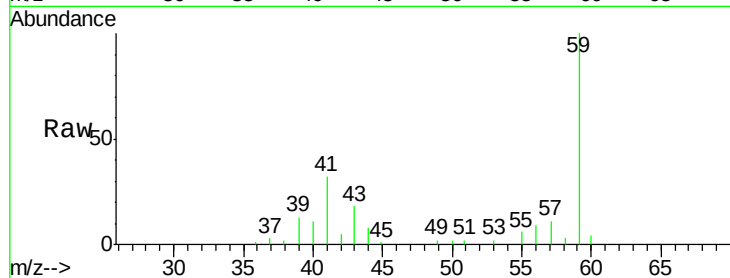
tert-Butyl Alcohol
 Concen: 99.850 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0301WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	100		47913		
52	0.0		0.0	0.0	0.0

Manual Integrations
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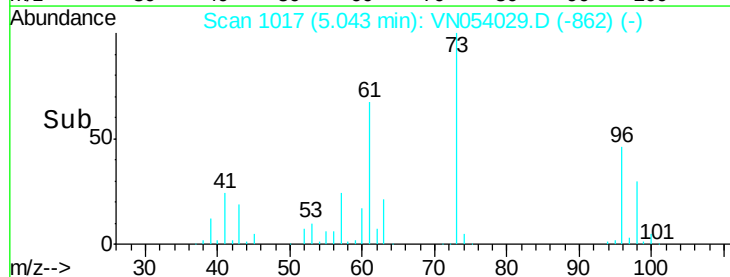
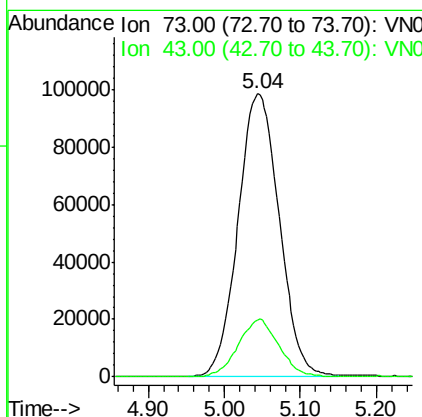
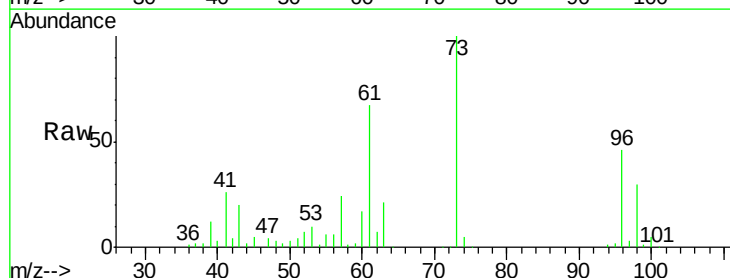
MMDadoda
 3/6/2019 10:23:55 AM

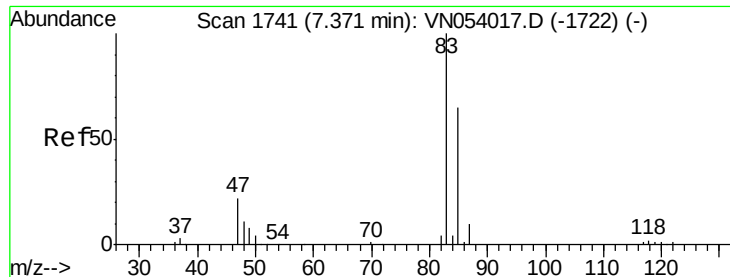


#24

Methyl tert-Butyl Ether
 Concen: 20.752 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
73	100		371470		
43	19.8		15.8	23.8	





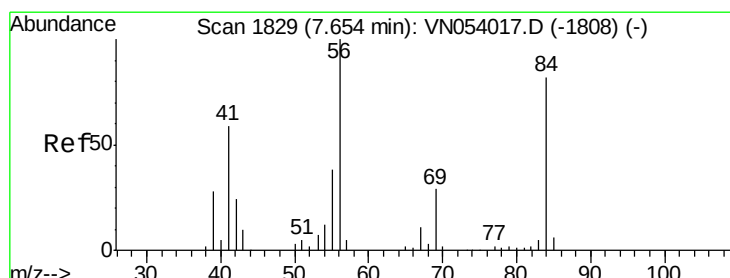
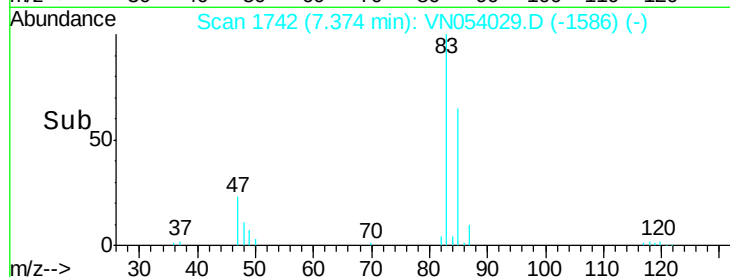
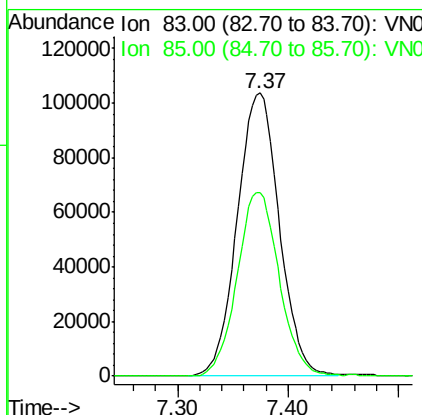
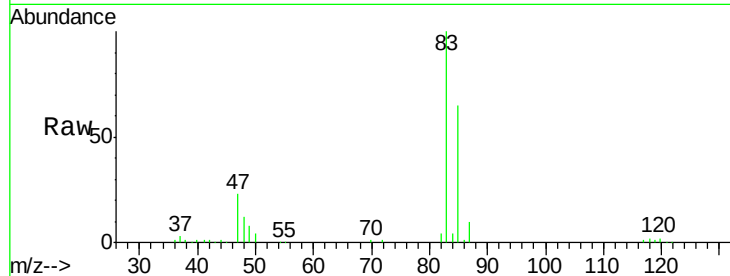
#25
Chloroform
Concen: 20.606 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	83	Resp	274676
Ion Ratio	100	Lower	Upper
85	64.8	51.7	77.5

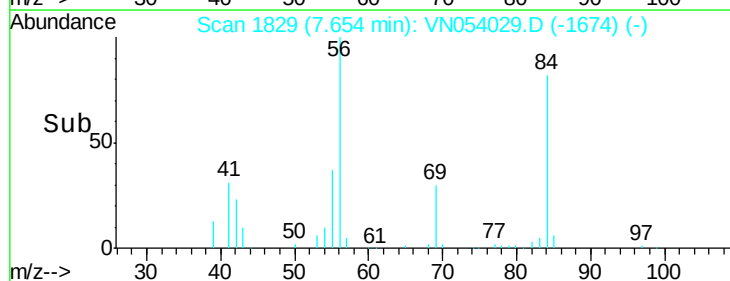
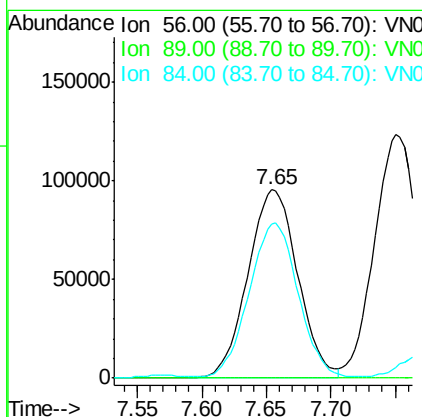
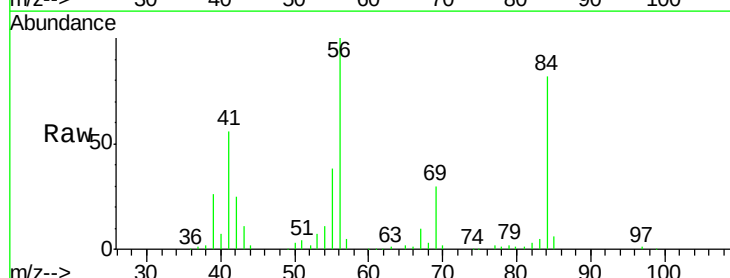
Manual Integrations
APPROVED

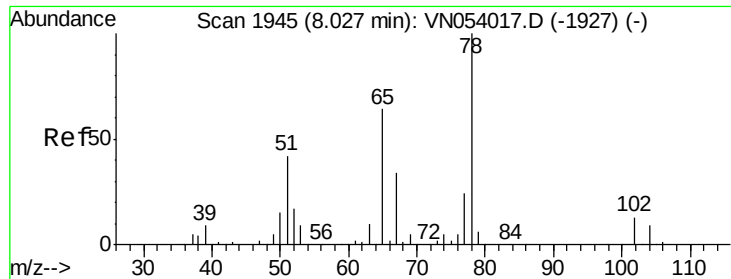
MMDadoda
3/6/2019 10:23:55 AM



#26
Cyclohexane
Concen: 20.440 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	56	Resp	256990
Ion Ratio	100	Lower	Upper
89	0.0	0.5	0.7#
84	81.6	66.2	99.2





#27

1,2-Dichloroethane-d4

Concen: 20.440 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion: 65 Resp: 251233

Ion Ratio Lower Upper

65 100

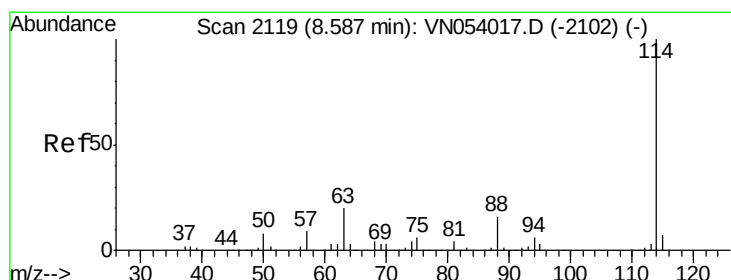
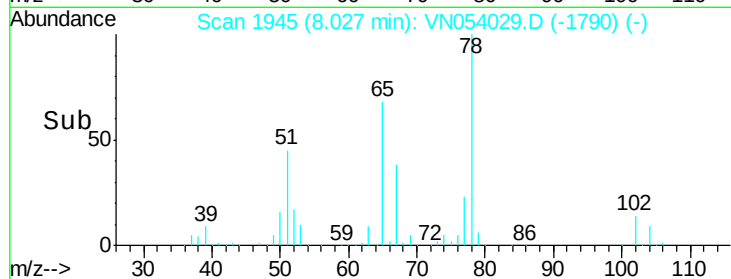
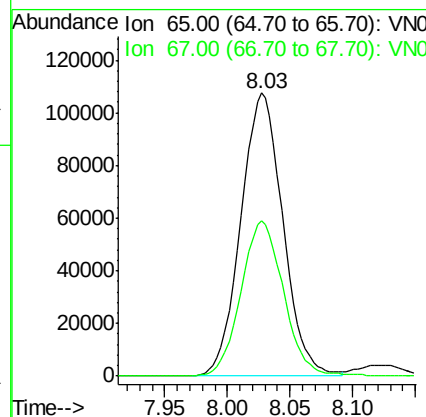
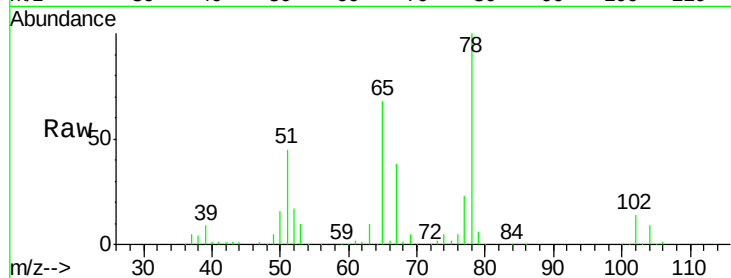
67 55.5 44.6 66.8

Manual Integrations

APPROVED

MMDadoda

3/6/2019 10:23:55 AM



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

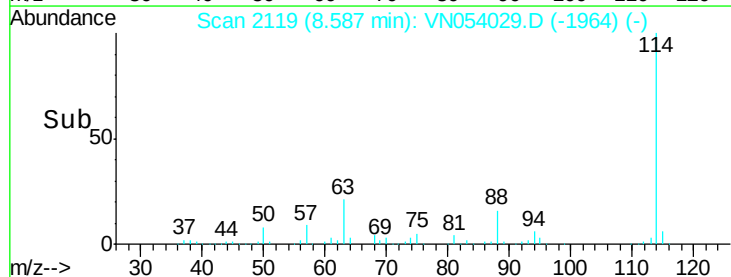
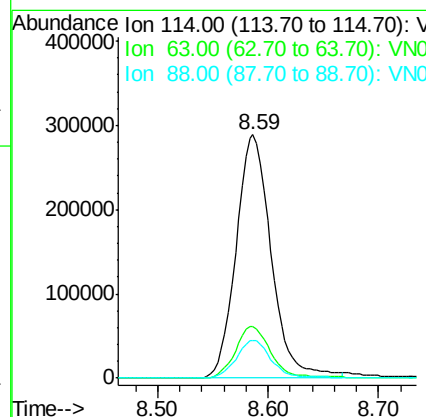
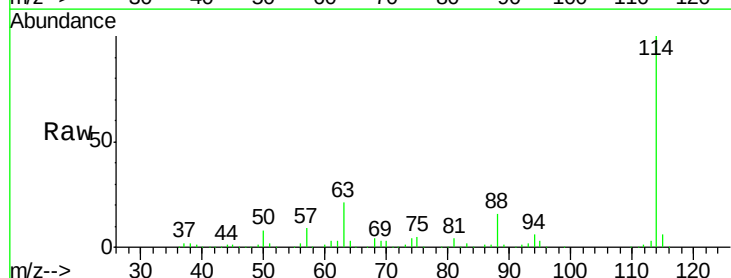
Tgt Ion: 114 Resp: 638726

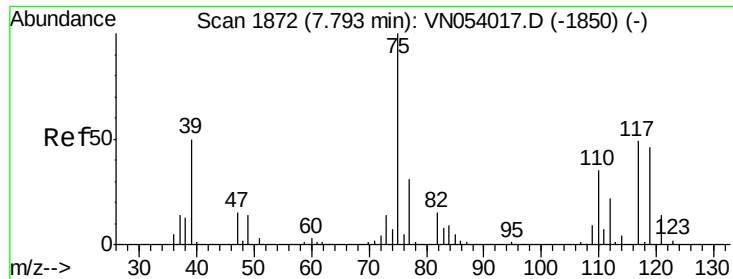
Ion Ratio Lower Upper

114 100

63 21.3 16.9 25.3

88 15.3 12.8 19.2





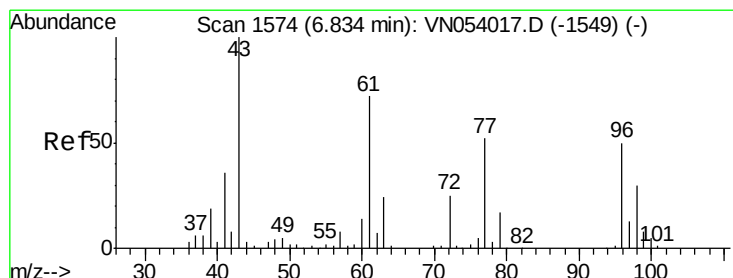
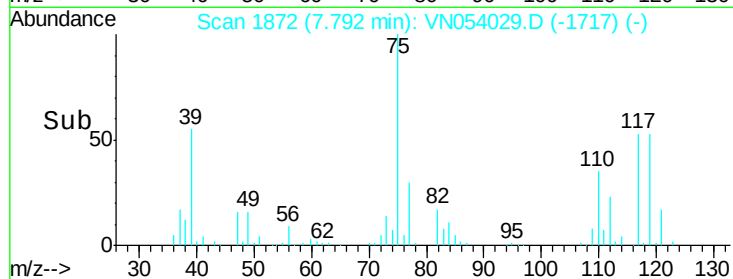
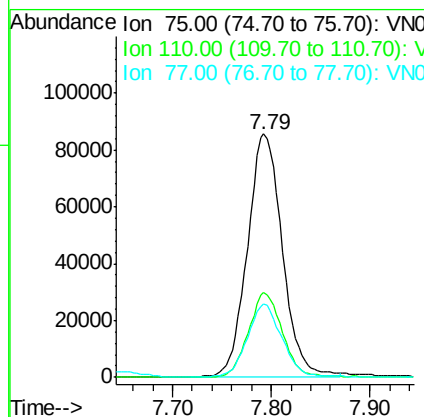
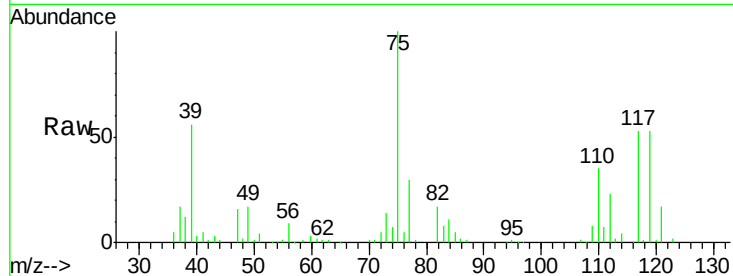
#29
 1,1-Dichloropropene
 Concen: 20.992 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampled :
 VN0301WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.5	0.0	70.2	
77	30.1	0.0	62.6	

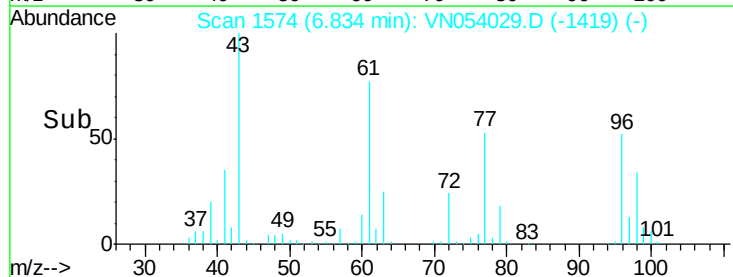
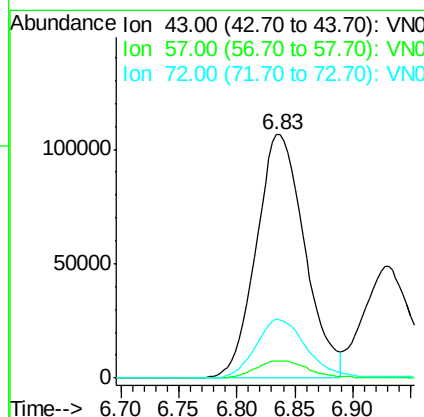
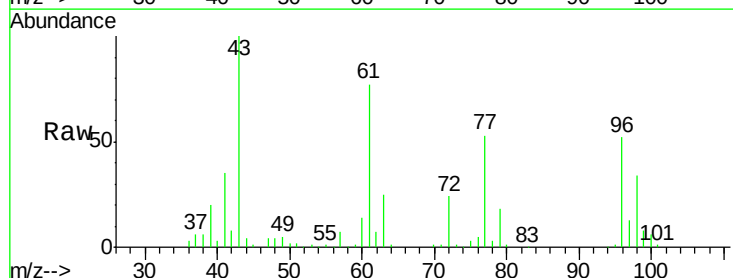
Manual Integrations
 APPROVED

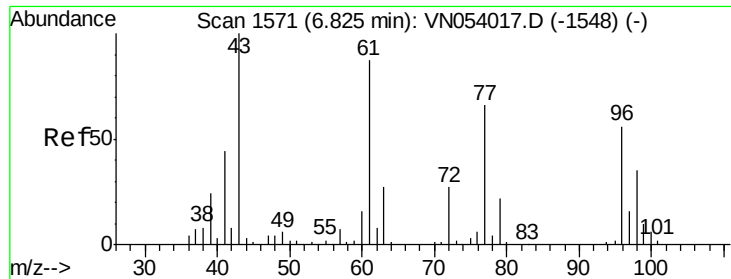
MMDadoda
 3/6/2019 10:23:55 AM



#30
 2-Butanone
 Concen: 97.528 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	7.9	6.2	9.4	
72	25.4	21.0	31.6	





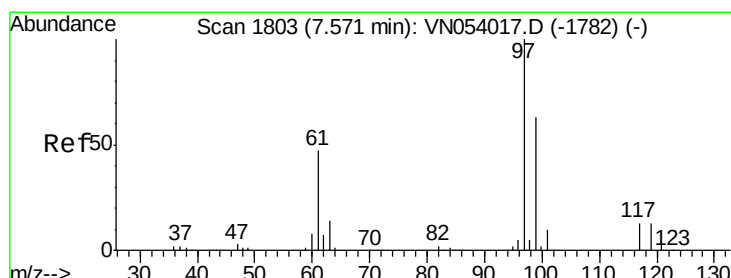
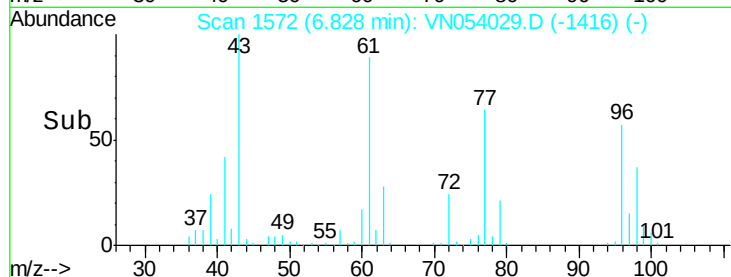
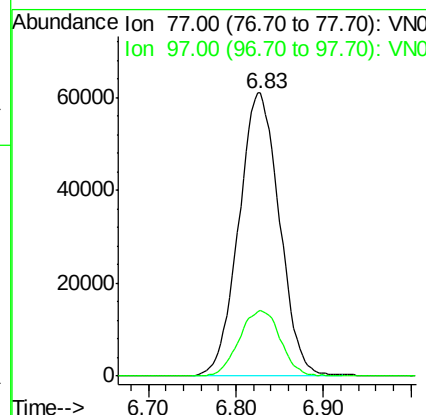
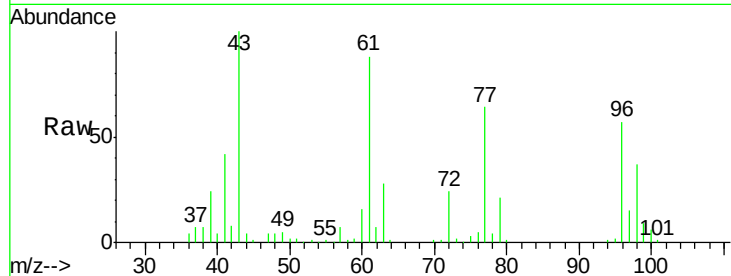
#31
 2,2-Dichloropropane
 Concen: 19.913 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampled :
 VN0301WBSD01

Tot Ion: 77 Resp: 196448
 Ion Ratio Lower Upper
 77 100
 97 23.5 18.7 28.1

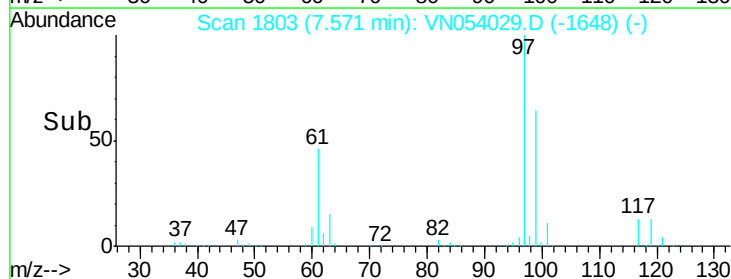
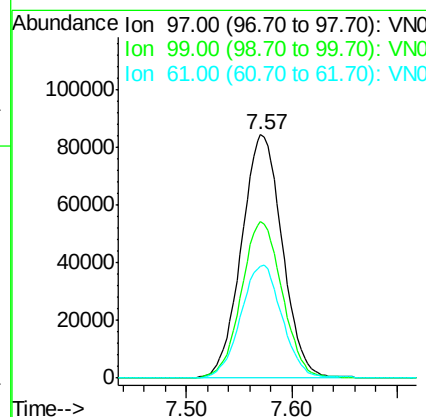
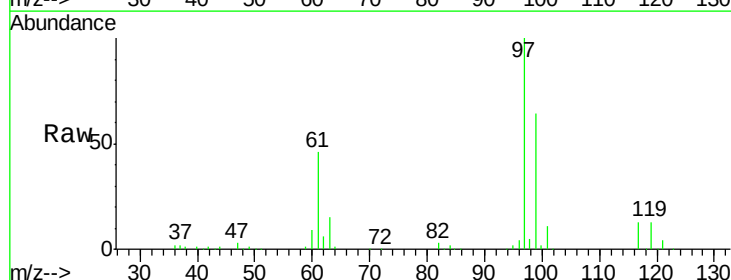
Manual Integrations
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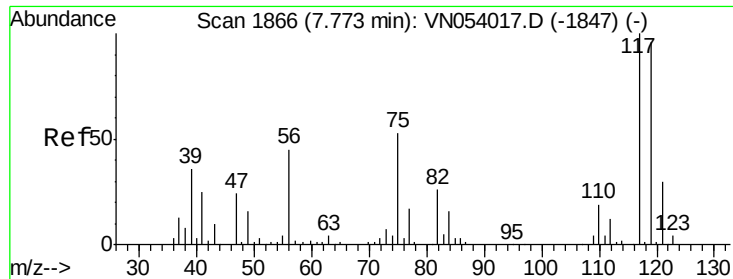
MMDadoda
 3/6/2019 10:23:55 AM



#32
 1,1,1-Trichloroethane
 Concen: 21.063 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion: 97 Resp: 226668
 Ion Ratio Lower Upper
 97 100
 99 64.3 50.9 76.3
 61 46.8 38.1 57.1





#33

Carbon Tetrachloride

Concen: 20.754 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

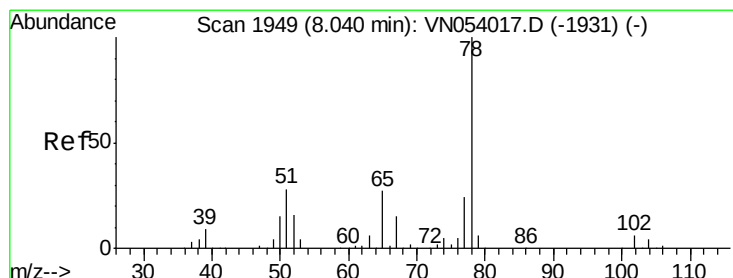
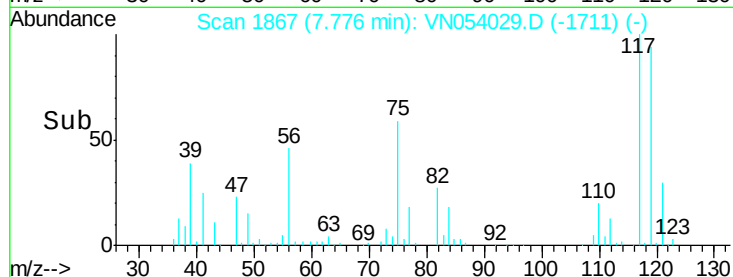
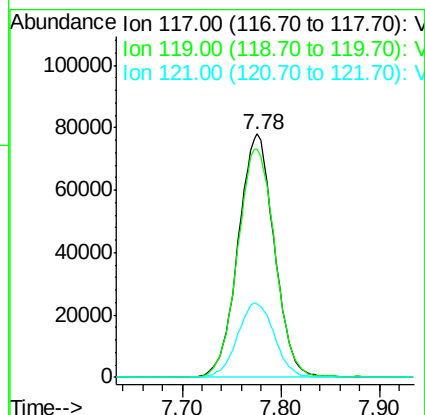
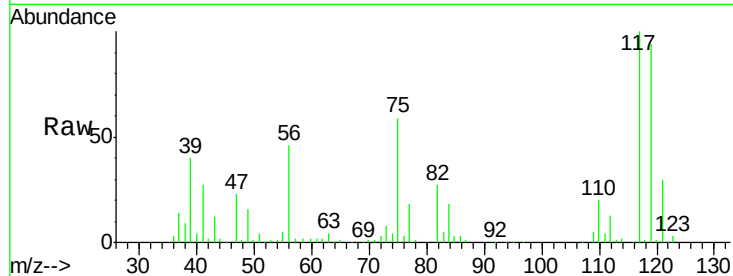
ClientSampleId :

VN0301WBSD01

Tot Ion:	117	Resp:	197751
Ion Ratio	Lower	Upper	
117	100		
119	93.5	77.3	115.9
121	30.1	24.9	37.3

Manual Integrations
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MMDadoda
3/6/2019 10:23:55 AM



#34

Benzene

Concen: 21.094 ug/l

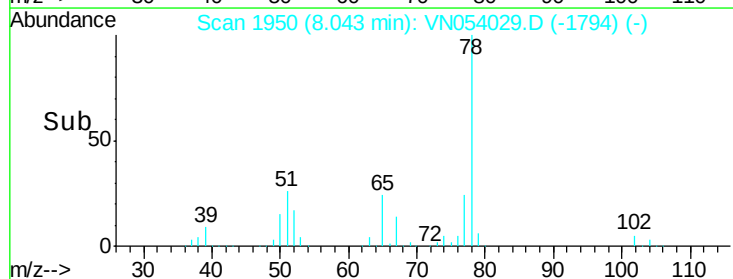
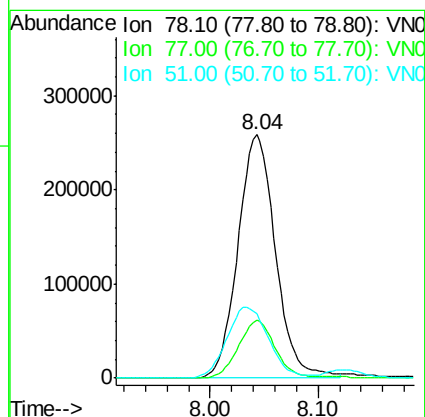
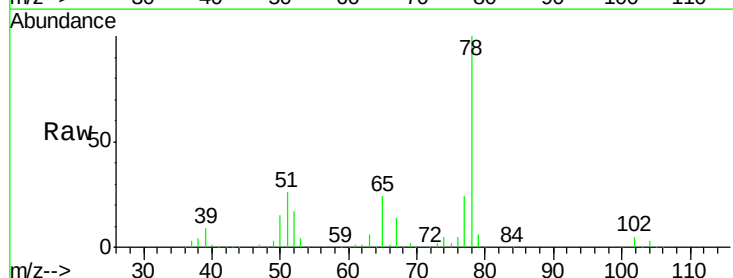
RT: 8.04 min Scan# 1950

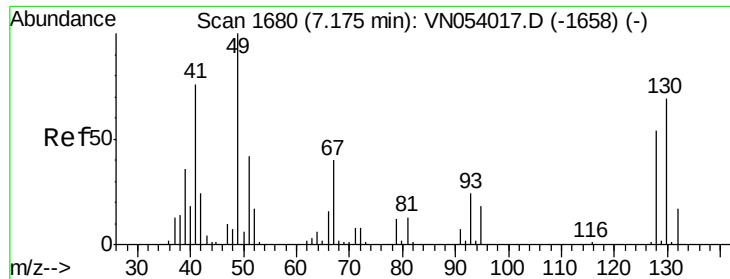
Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	78	Resp:	627195
Ion Ratio	Lower	Upper	
78	100		
77	23.7	19.0	28.6
51	26.0	20.5	30.7





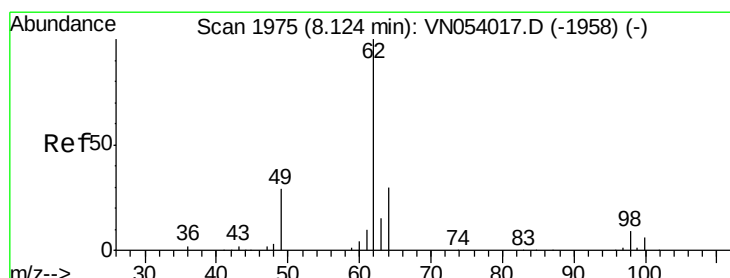
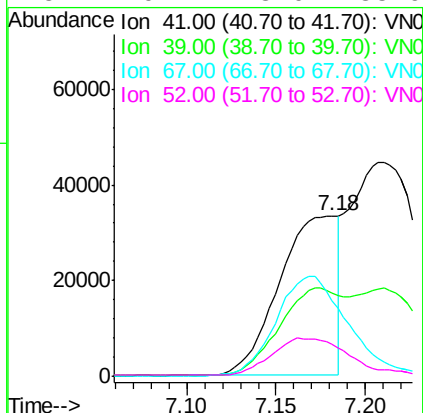
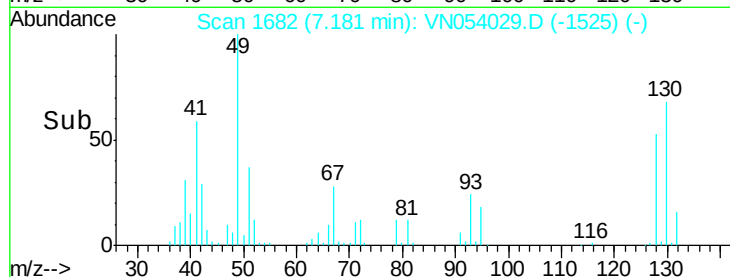
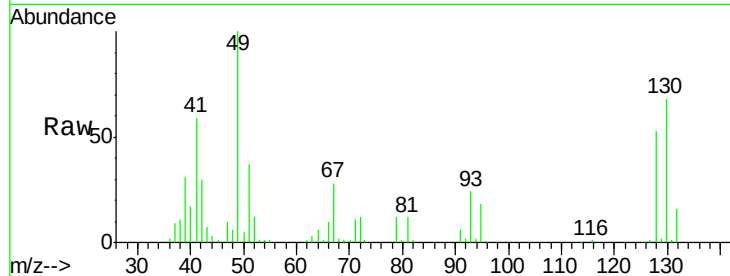
#35
Methacrylonitrile
Concen: 21.530 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
VN0301WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.7	26.6	79.7	
67	47.5	32.3	96.9	
52	19.7	13.0	38.9	

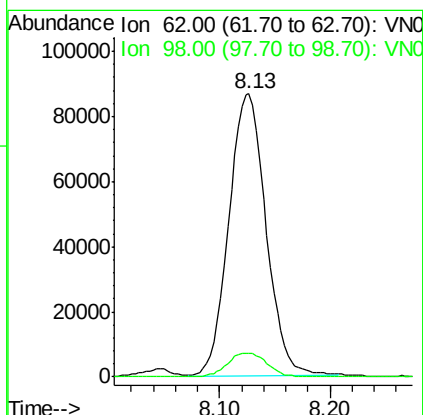
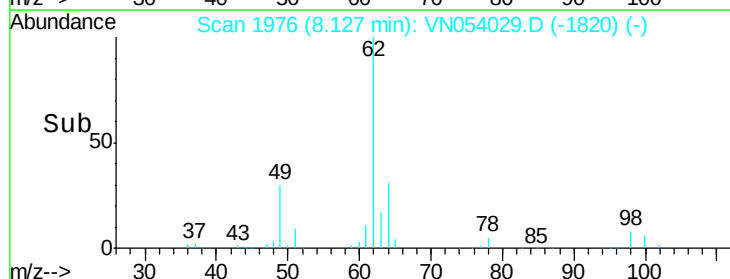
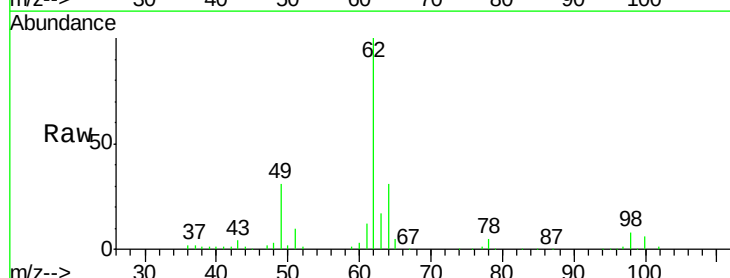
Manual Integrations
APPROVED

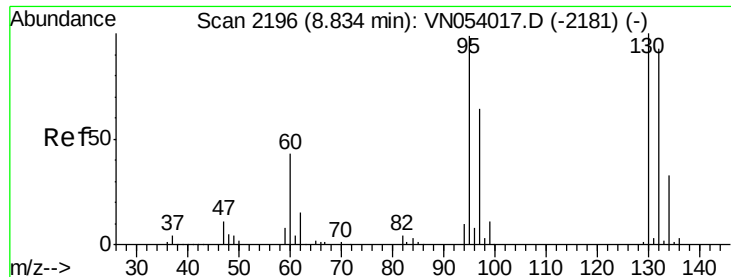
MMDadoda
3/6/2019 10:23:55 AM



#36
1,2-Dichloroethane
Concen: 21.120 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.1	7.4	11.2	





#37

Trichloroethene

Concen: 20.627 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

VN0301WBSD01

Tot Ion:130 Resp: 160102

Ion Ratio Lower Upper

130 100

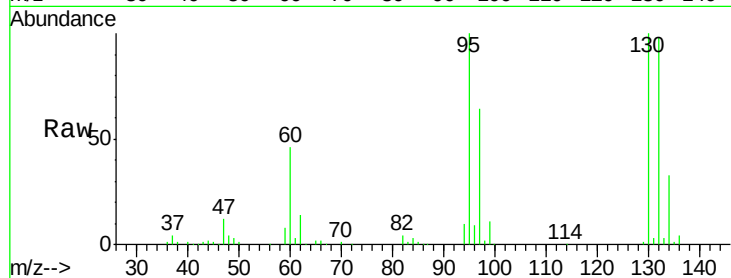
95 99.6 81.0 121.4

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

80000

60000

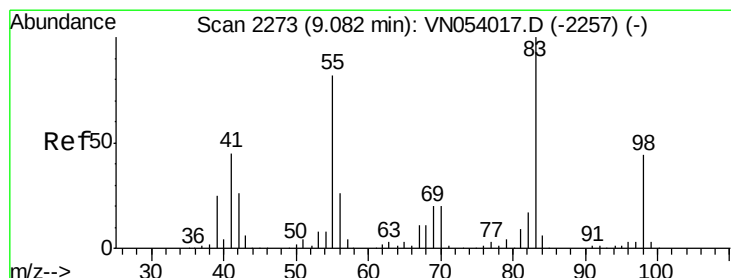
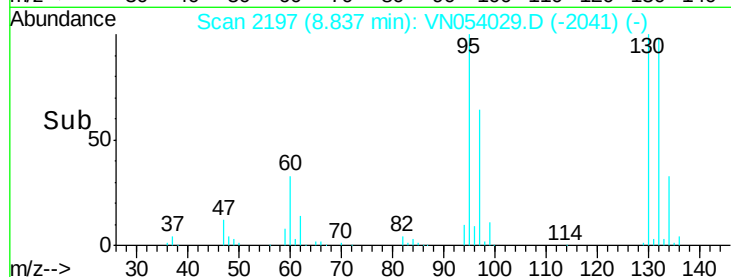
40000

20000

0

8.75 8.80 8.85 8.90 8.95

Time-->



#38

Methylcyclohexane

Concen: 19.832 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

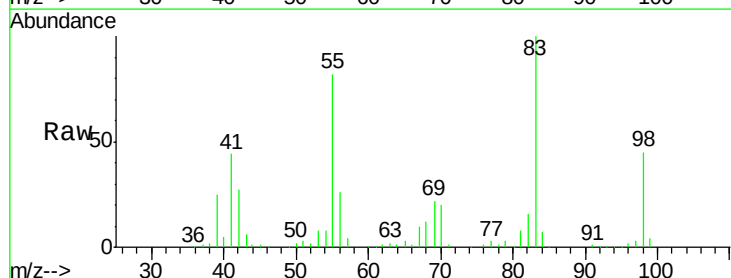
Tgt Ion: 83 Resp: 234187

Ion Ratio Lower Upper

83 100

55 81.0 39.8 119.4

98 44.5 22.9 68.5



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

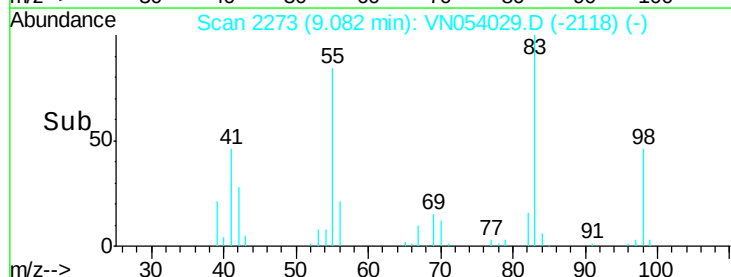
100000

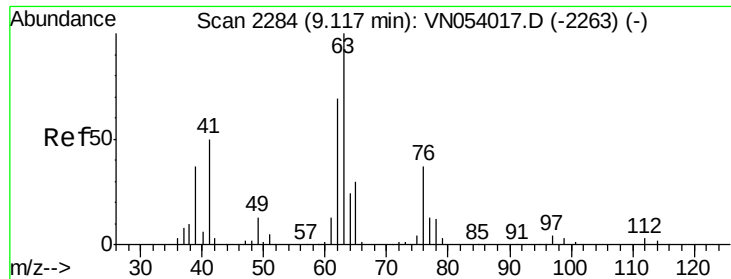
50000

0

9.00 9.10 9.20

Time-->





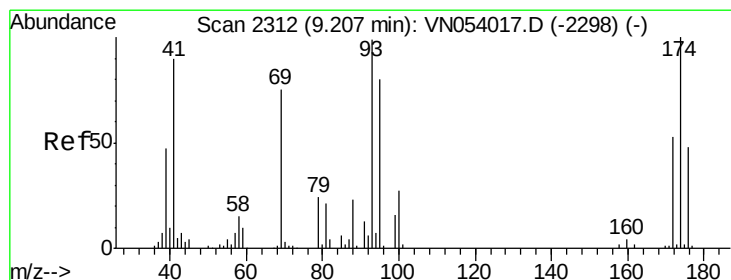
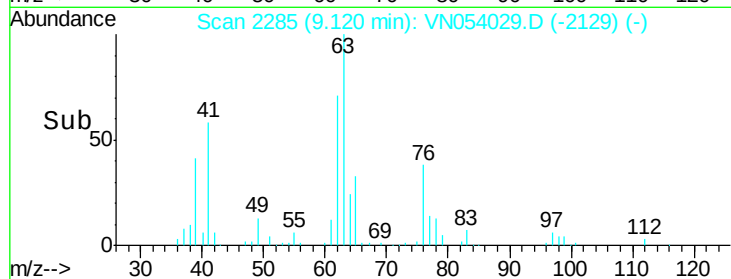
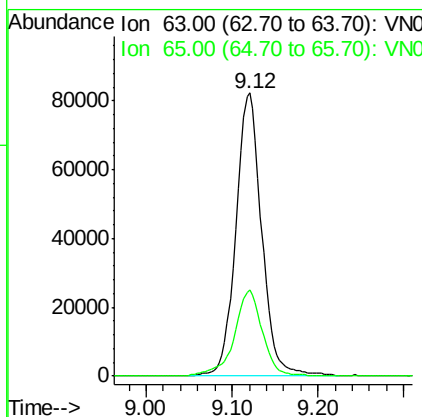
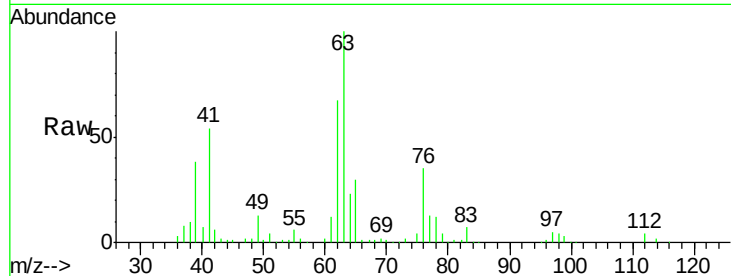
#39
 1,2-Dichloropropane
 Concen: 21.070 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0301WBSD01

Tot Ion: 63 Resp: 171624
 Ion Ratio Lower Upper
 63 100
 65 30.3 23.6 35.4

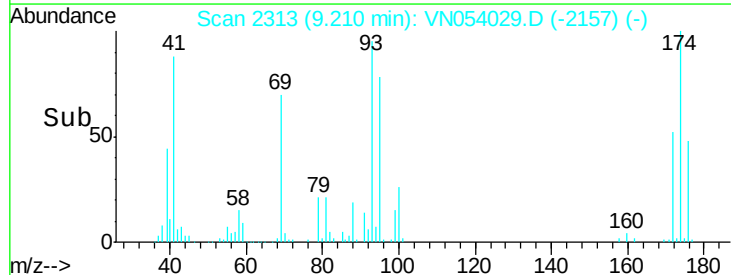
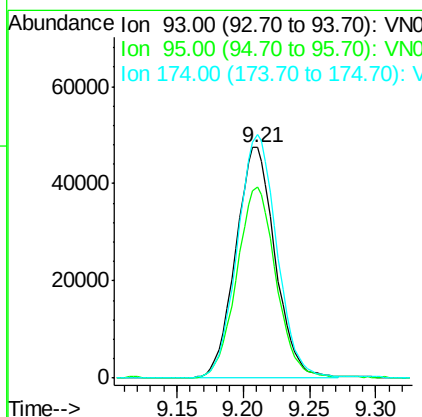
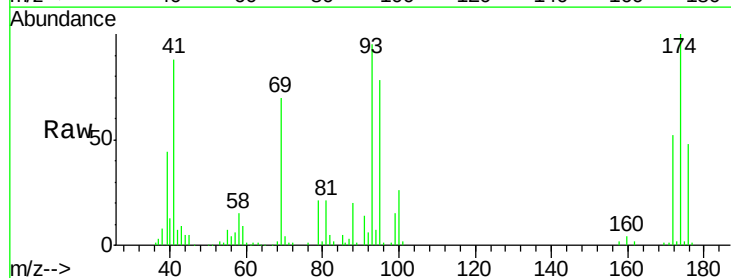
Manual Integrations
 APPROVED

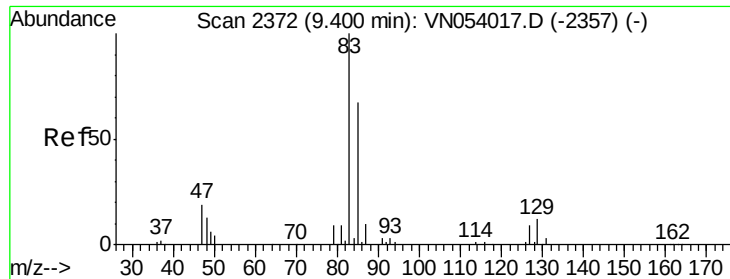
MMDadoda
 3/6/2019 10:23:55 AM



#40
 Dibromomethane
 Concen: 21.096 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion: 93 Resp: 98511
 Ion Ratio Lower Upper
 93 100
 95 82.3 0.0 168.4
 174 105.5 0.0 210.0





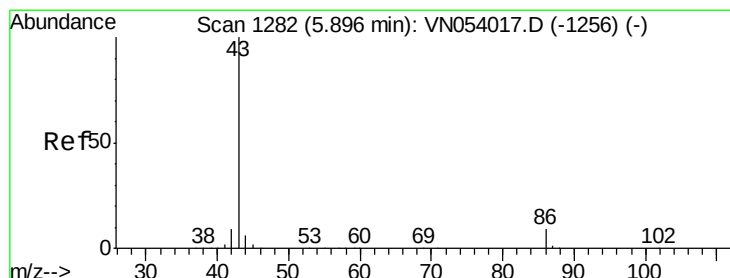
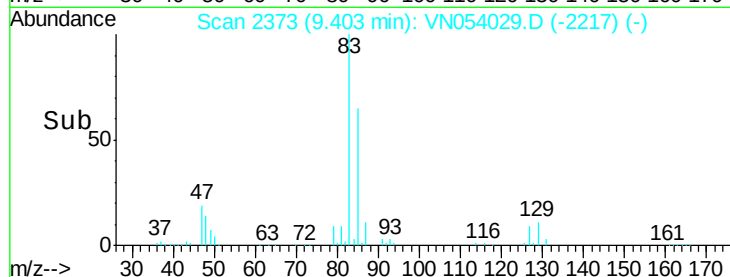
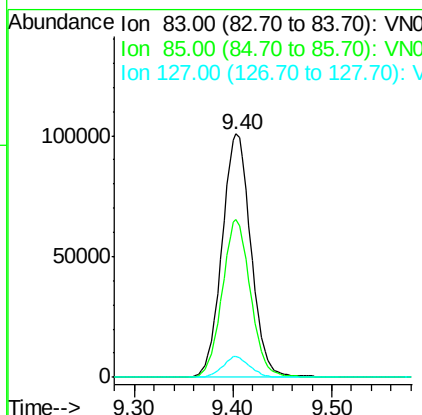
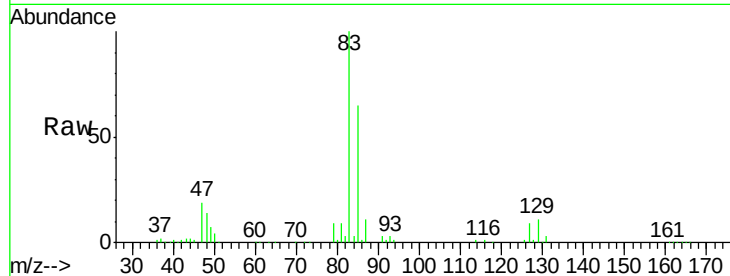
#41
Bromodichloromethane
Concen: 20.834 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
VN0301WBSD01

Tot Ion	83	Resp	206428
Ion Ratio	100		
85	64.9	52.4	78.6
127	8.7	6.6	9.8

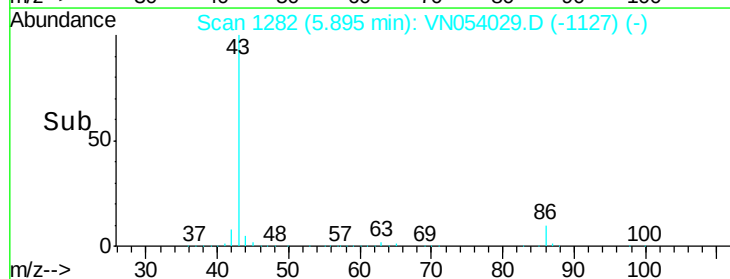
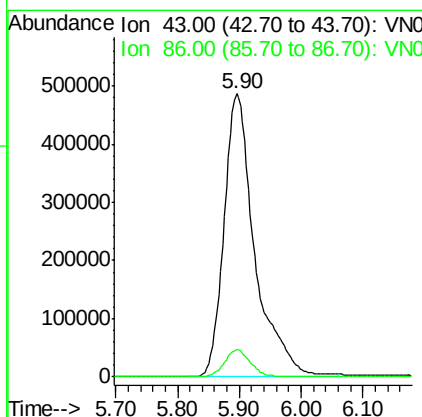
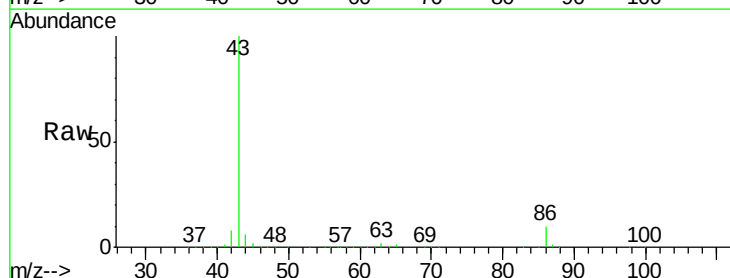
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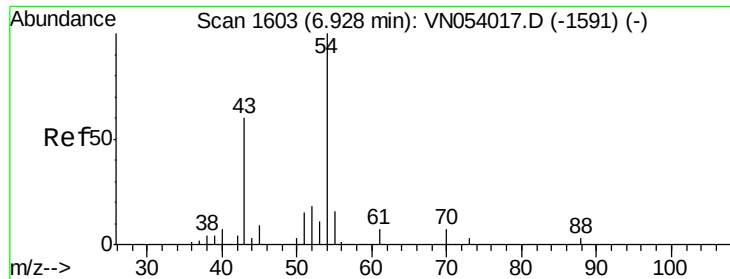
MMDadoda
3/6/2019 10:23:55 AM



#42
Vinyl Acetate
Concen: 103.254 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	43	Resp	1685073
Ion Ratio	100		
86	8.1	6.5	9.7





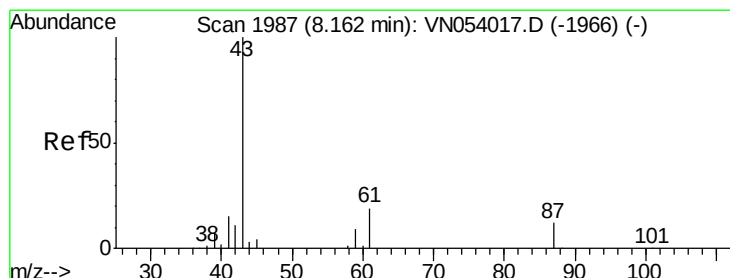
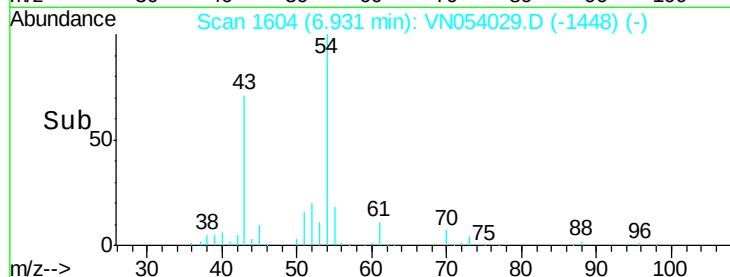
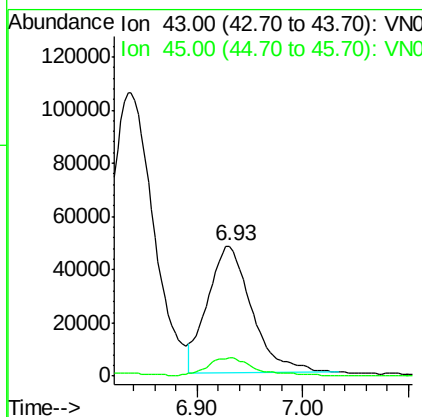
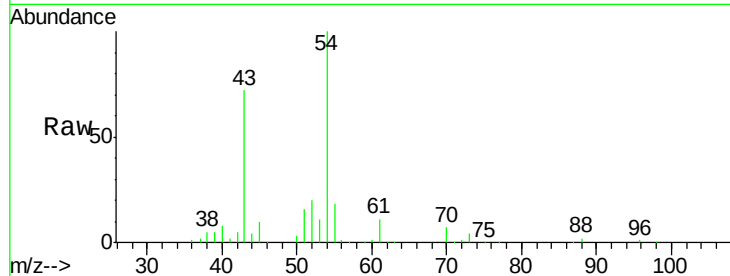
#43
Ethyl Acetate
Concen: 21.012 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion: 43 Resp: 139030
Ion Ratio Lower Upper
43 100
45 13.2 1.0 1.6#

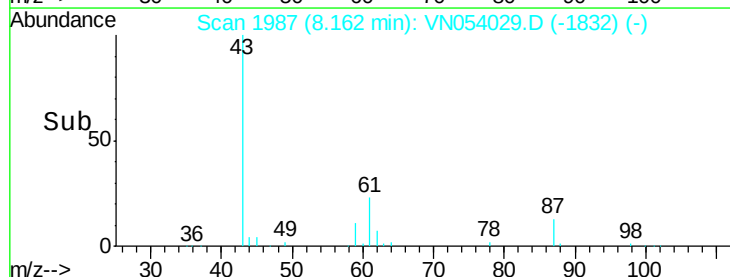
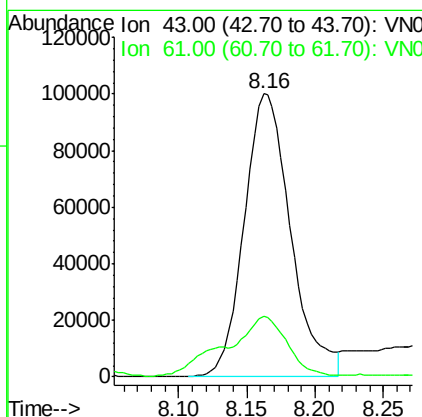
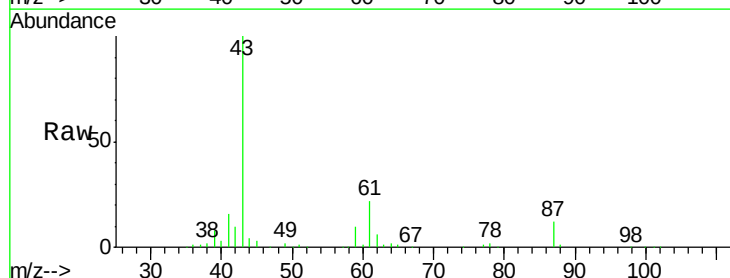
Manual Integrations
APPROVED

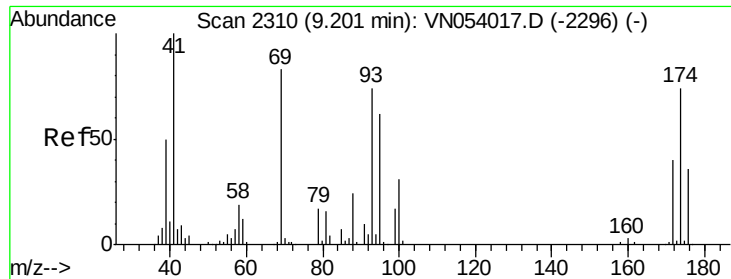
MMDadoda
3/6/2019 10:23:55 AM



#44
Isopropyl Acetate
Concen: 20.340 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion: 43 Resp: 236153
Ion Ratio Lower Upper
43 100
61 19.1 16.0 24.0





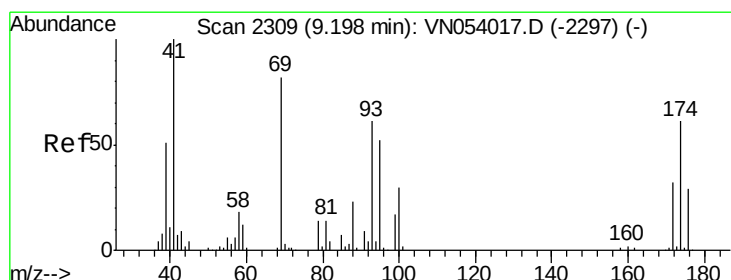
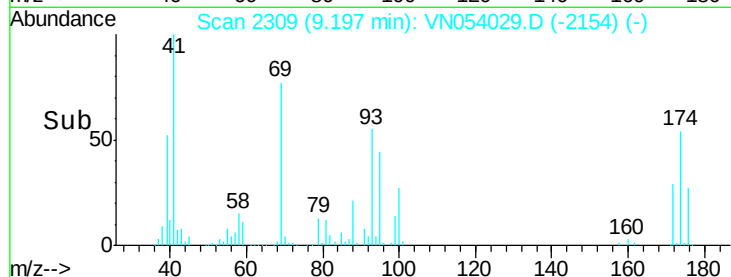
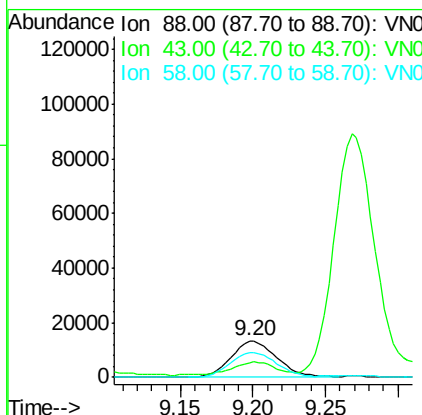
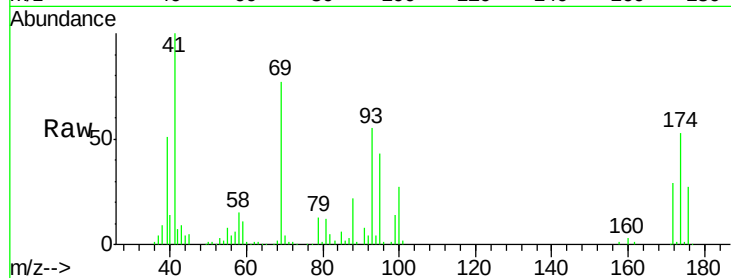
#45
 1,4-Dioxane
 Concen: 430.211 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.0	29.5	44.3
58	69.2	61.5	92.3

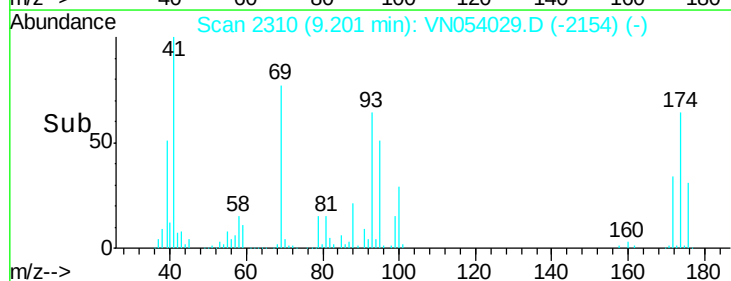
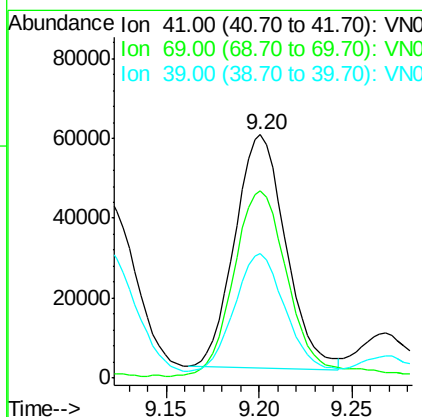
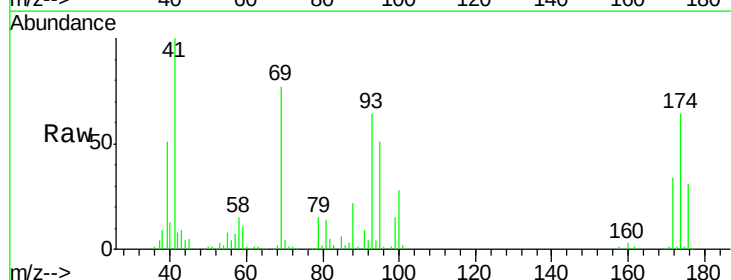
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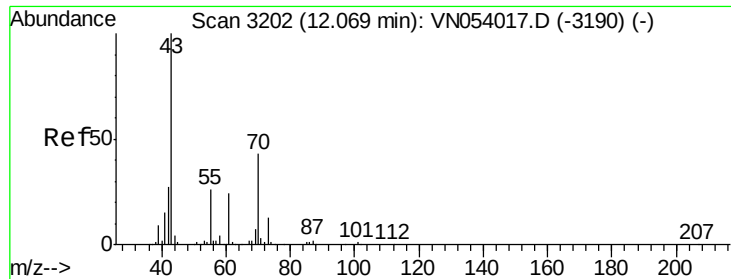
MMDadoda
 3/6/2019 10:23:55 AM



#46
 Methyl methacrylate
 Concen: 20.023 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
41	100		
69	79.1	42.5	127.6
39	51.0	26.3	78.9





#47

n-amyl Acetate

Concen: 18.180 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion: 43 Resp: 155052

Ion Ratio Lower Upper

43 100

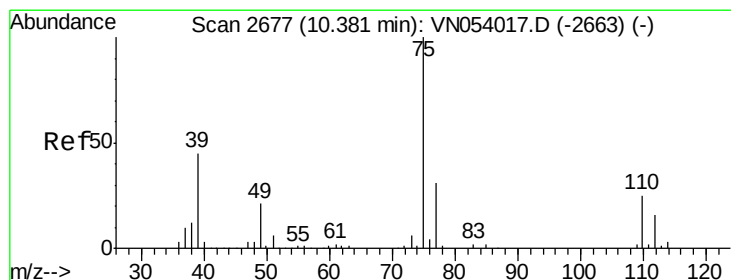
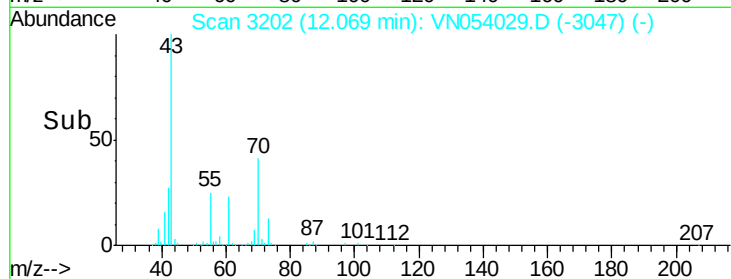
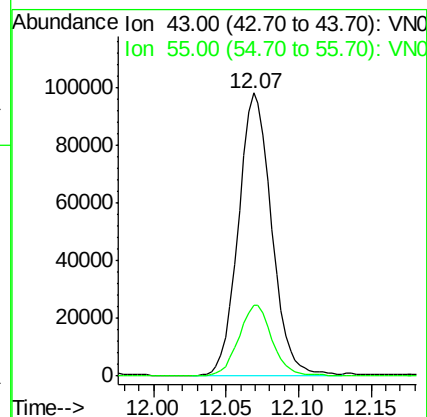
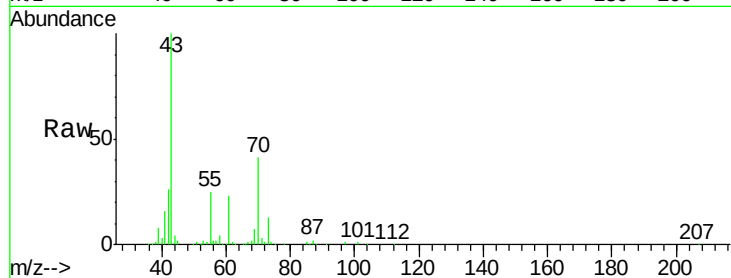
55 25.6 21.1 31.7

Manual Integrations

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MMDadoda

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#48

t-1,3-Dichloropropene

Concen: 19.730 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054029.D

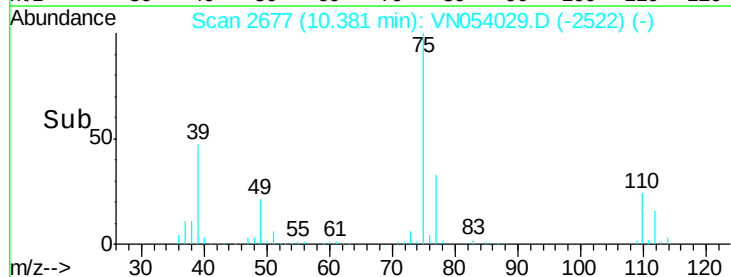
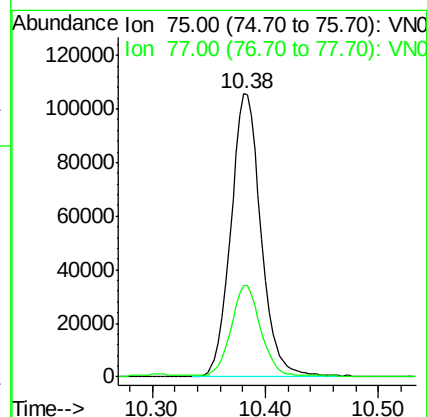
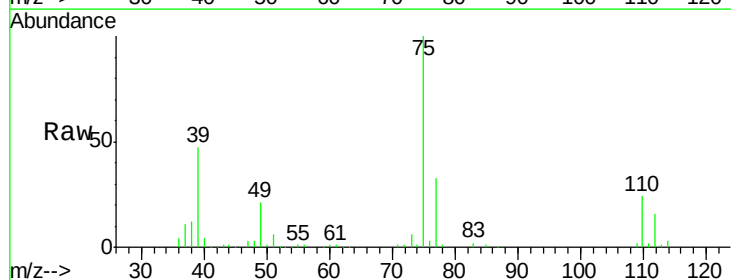
Acq: 1 Mar 2019 15:04

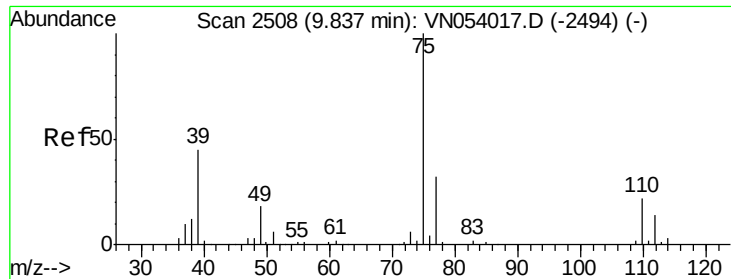
Tgt Ion: 75 Resp: 196007

Ion Ratio Lower Upper

75 100

77 32.3 25.6 38.4





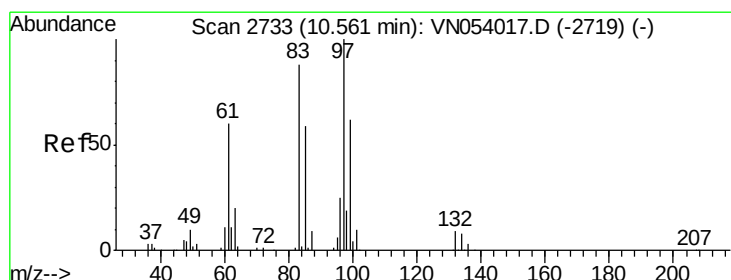
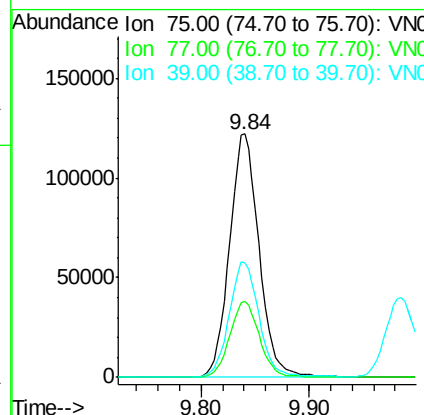
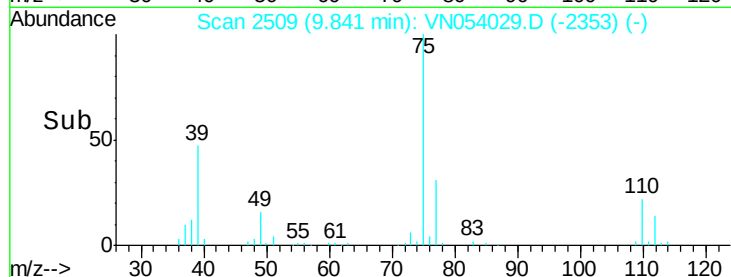
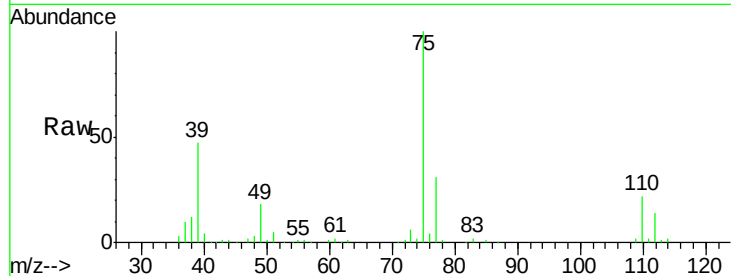
#49
 cis-1,3-Dichloropropene
 Concen: 20.005 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.0
39	47.0	37.3	55.9

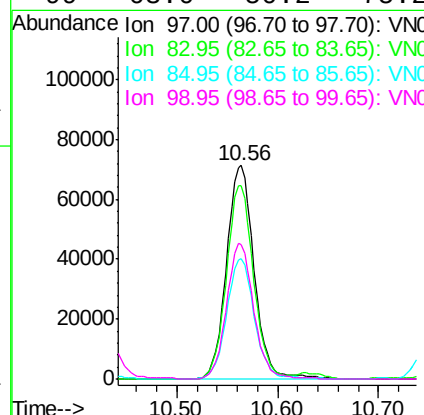
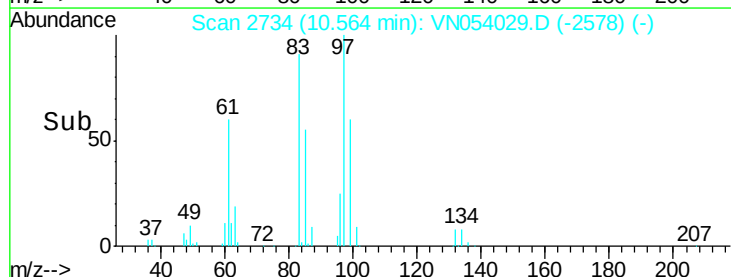
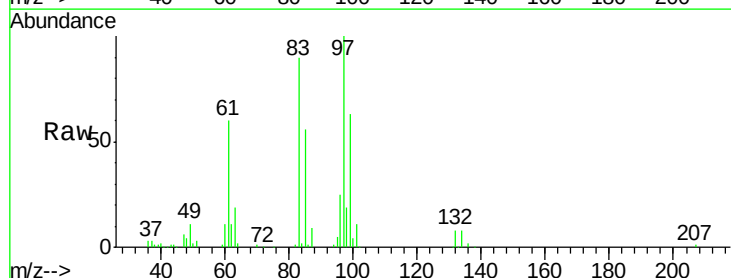
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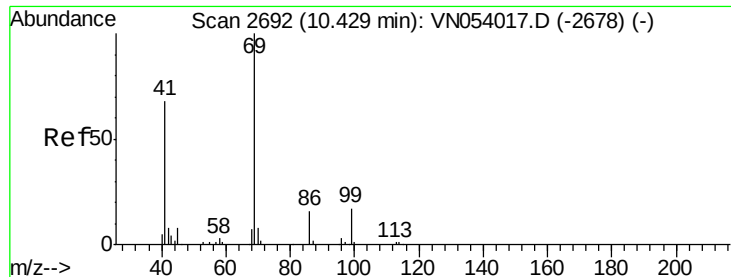
MMDadoda
 3/6/2019 10:23:55 AM



#50
 1,1,2-Trichloroethane
 Concen: 20.842 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
97	100		
83	90.4	70.4	105.6
85	56.3	45.0	67.6
99	63.0	50.2	75.2





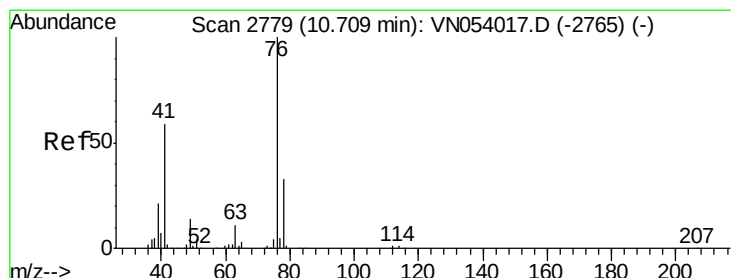
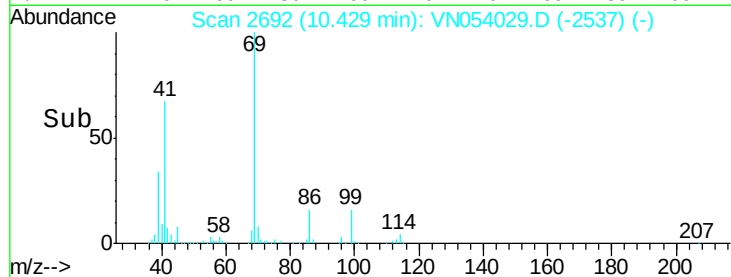
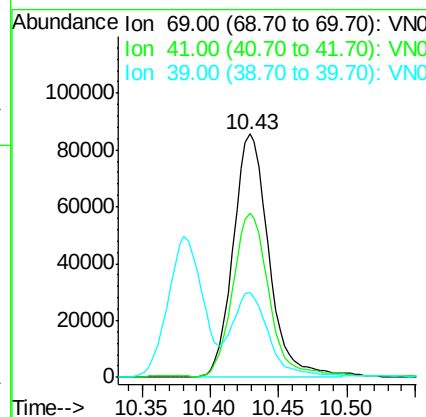
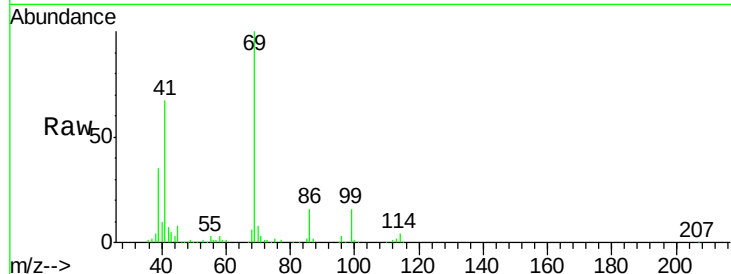
#51
Ethyl methacrylate
Concen: 19.725 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
69	100		
41	66.9	34.4	103.3
39	33.8	16.4	49.2

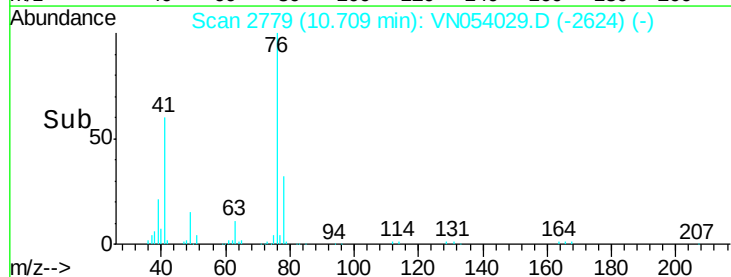
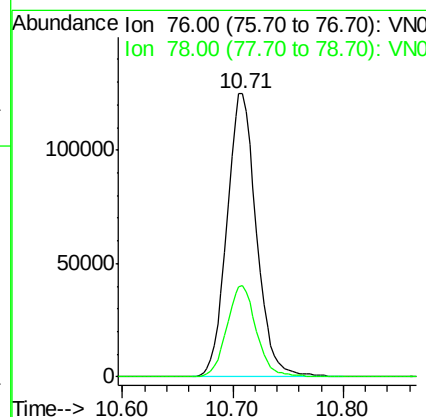
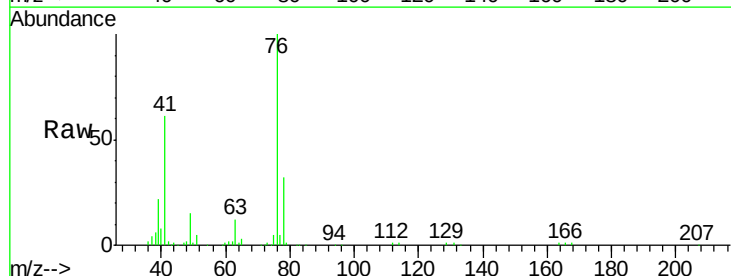
Manual Integrations
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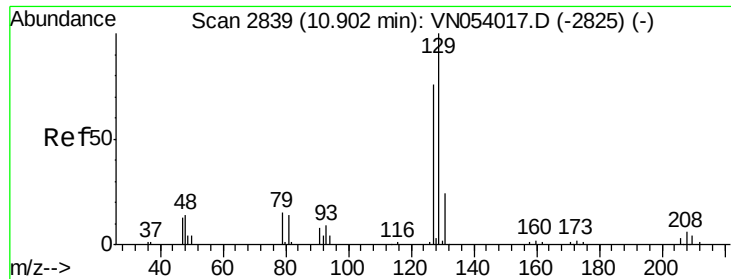
MMDadoda
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#52
1,3-Dichloropropane
Concen: 20.629 ug/l
RT: 10.71 min Scan# 2779
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.2	0.0	64.8





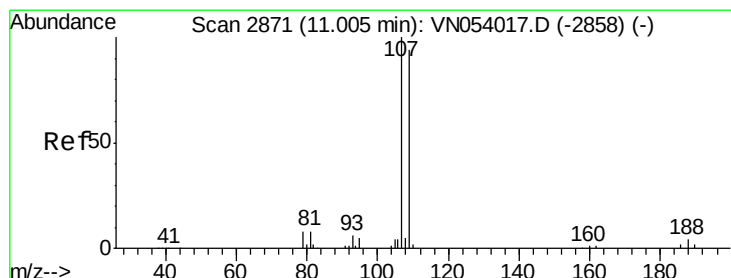
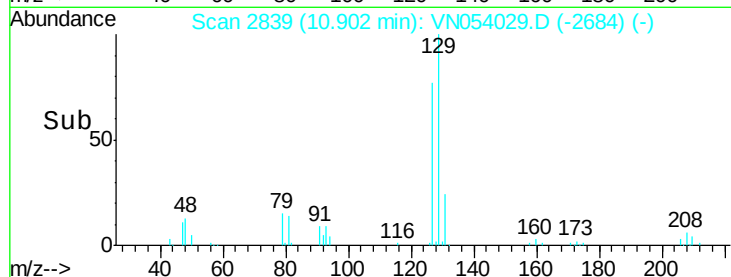
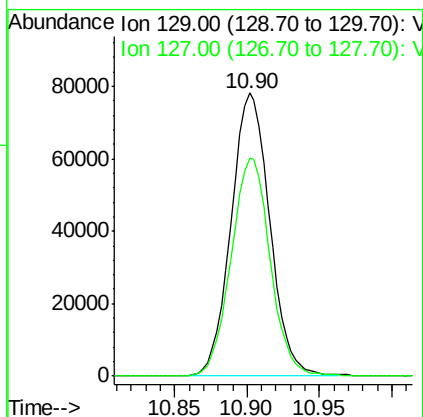
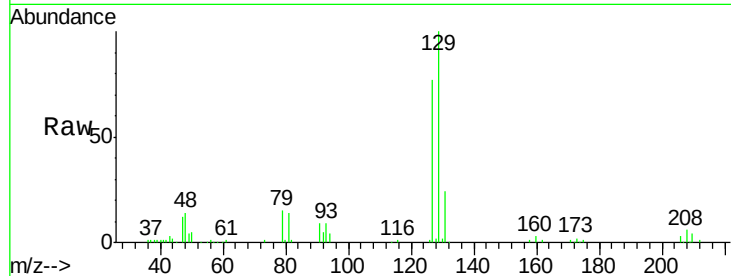
#53
Dibromochloromethane
Concen: 20.137 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion:129 Resp: 144937
Ion Ratio Lower Upper
129 100
127 77.7 37.6 112.8

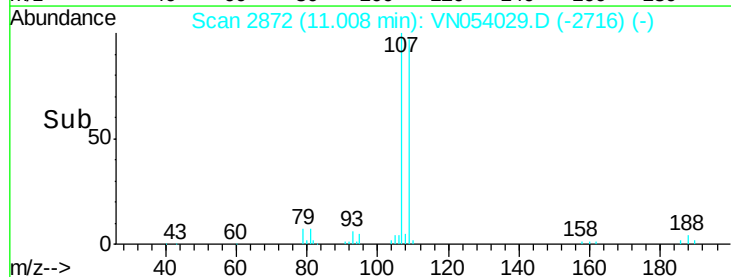
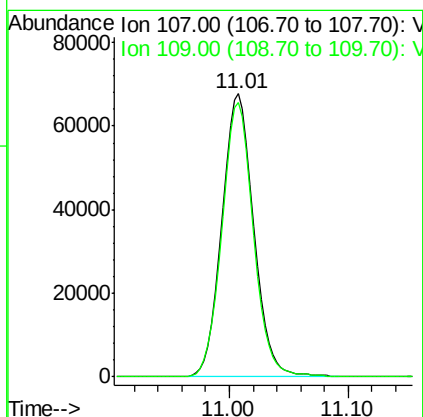
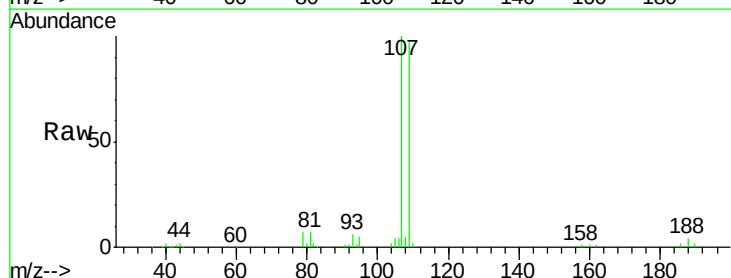
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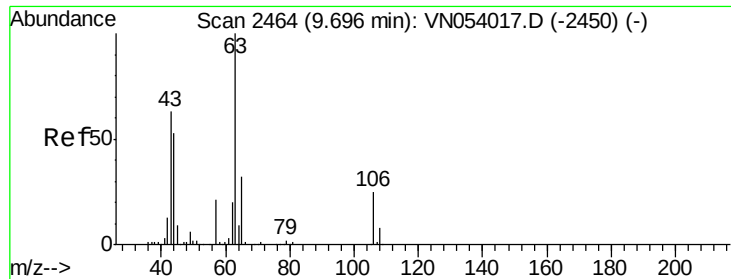
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3/6/2019 10:23:55 AM



#54
1,2-Dibromoethane
Concen: 20.130 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion:107 Resp: 125606
Ion Ratio Lower Upper
107 100
109 96.0 77.1 115.7





#55

2-Chloroethyl vinyl ether

Concen: 93.683 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

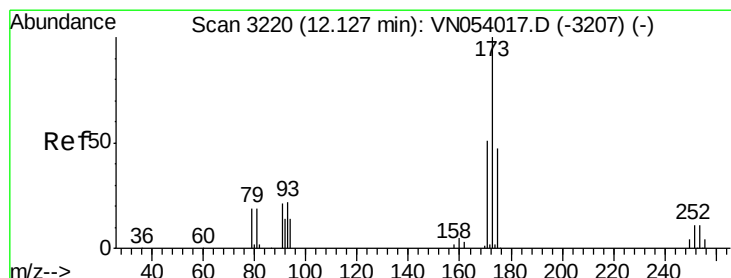
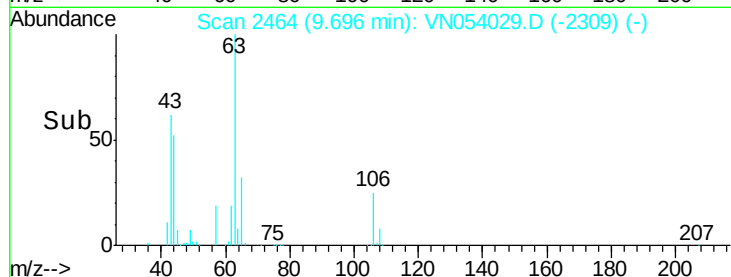
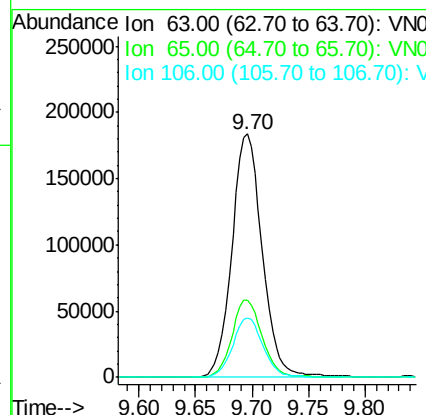
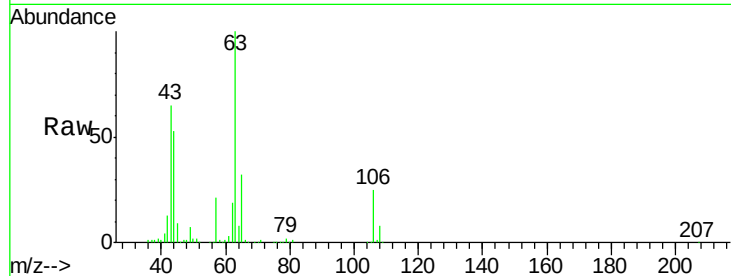
ClientSampleId :

VN0301WBSD01

Tot Ion:	63	Resp:	342818
Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.4	38.2
106	24.4	20.4	30.6

Manual Integrations
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#56

Bromoform

Concen: 19.203 ug/l

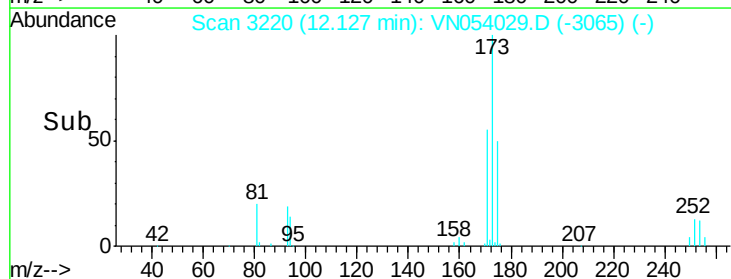
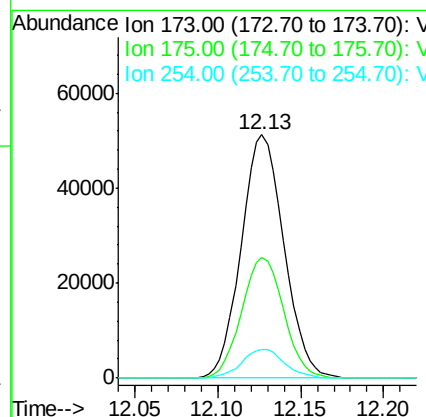
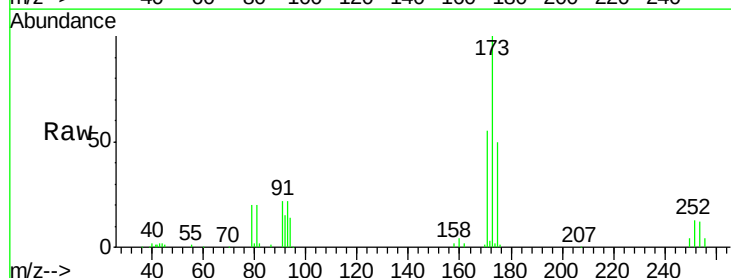
RT: 12.13 min Scan# 3220

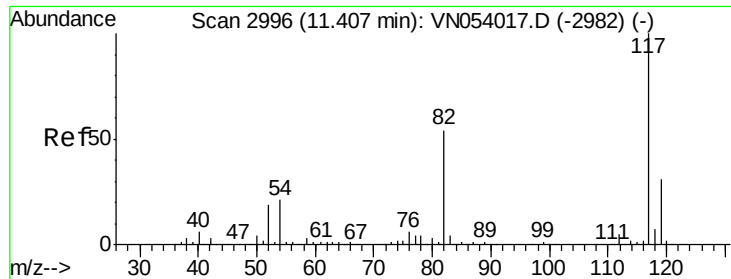
Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	173	Resp:	91773
Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.7	58.1
254	11.8	8.4	12.6





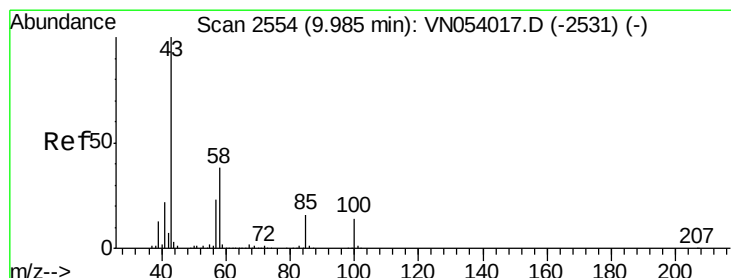
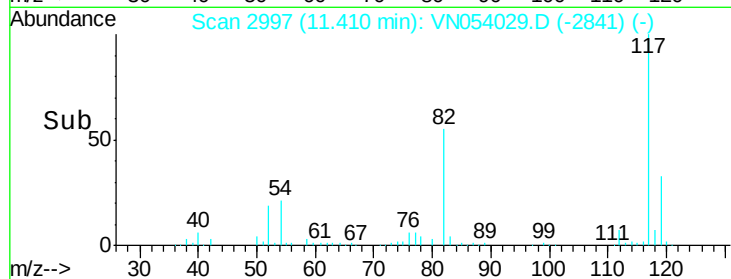
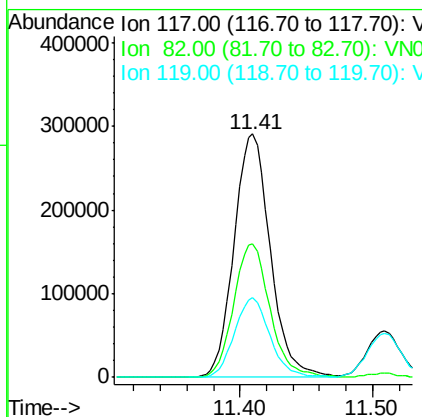
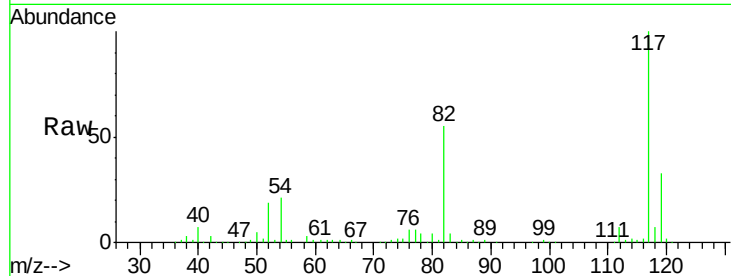
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.2	66.2
119	32.0	25.4	38.2

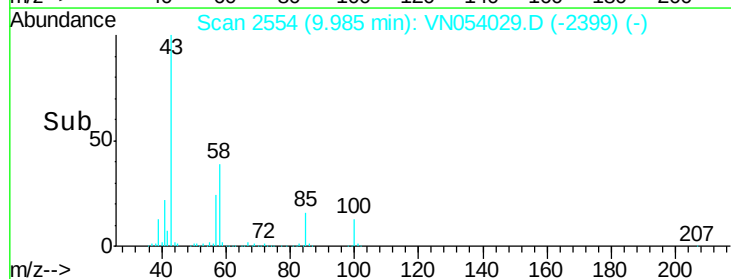
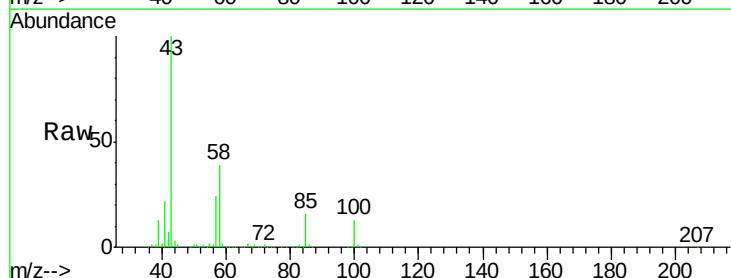
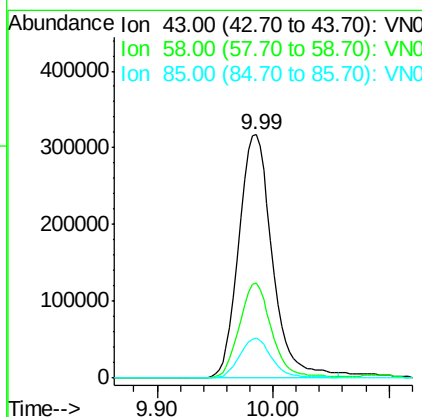
Manual Integrations
APPROVED

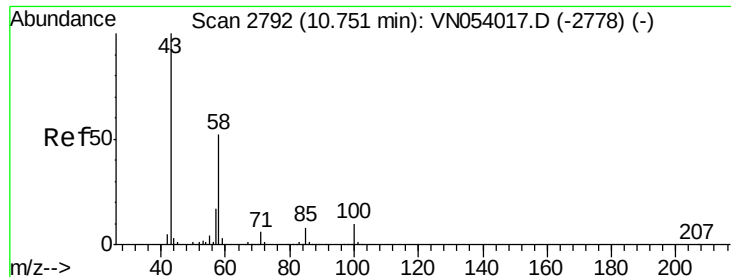
MMDadoda
3/6/2019 10:23:55 AM



#58
4-Methyl-2-Pentanone
Concen: 102.253 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.1	31.6	47.4
85	16.0	13.3	19.9





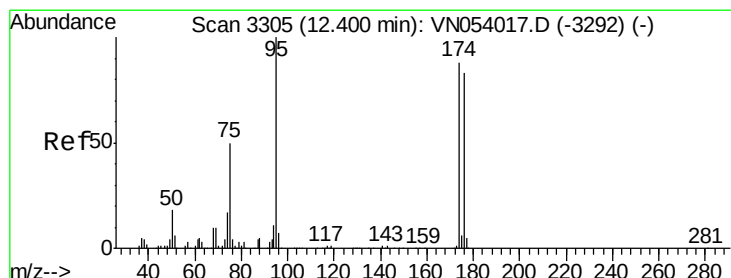
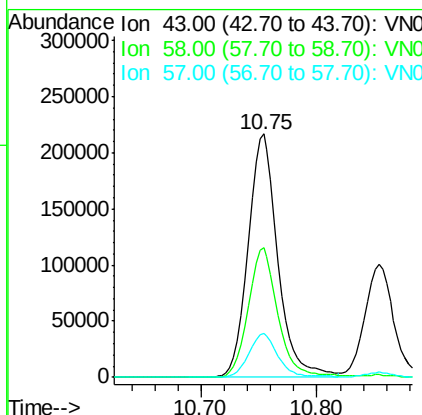
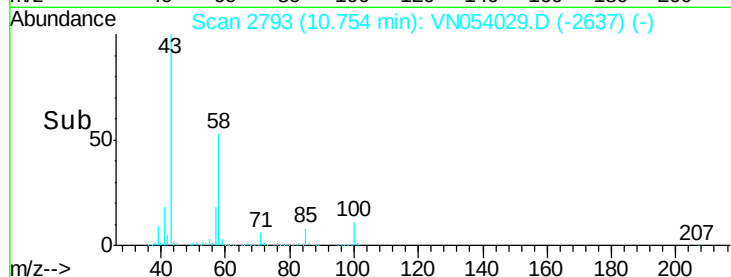
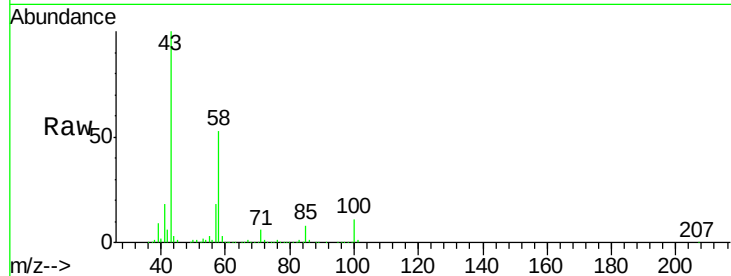
#59
2-Hexanone
Concen: 94.795 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.3	43.2	64.8
57	17.5	14.9	22.3

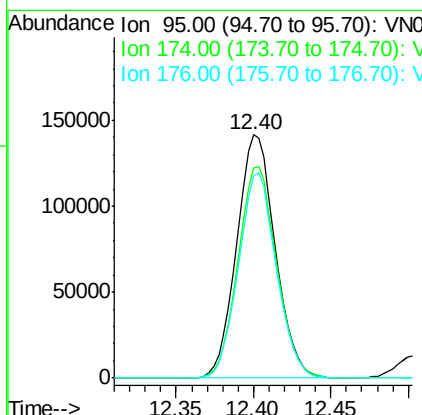
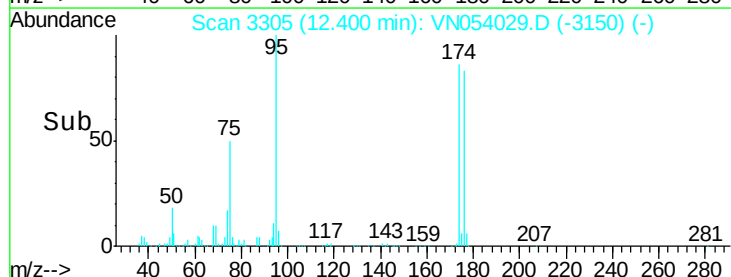
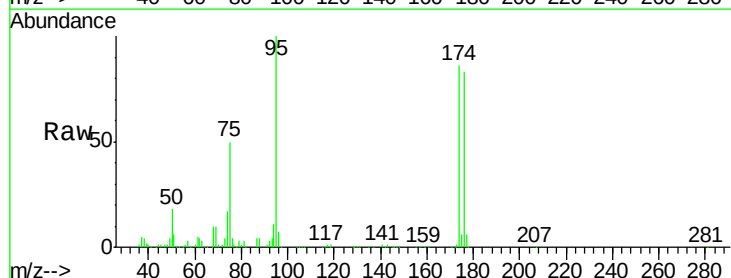
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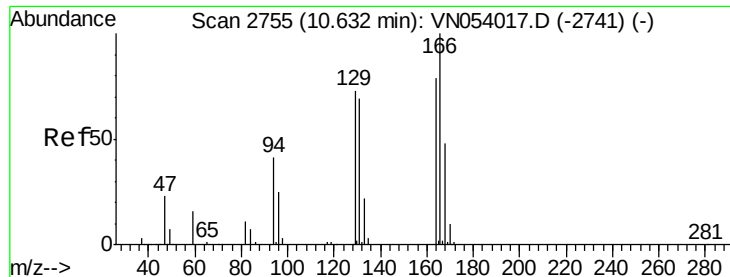
MMDadoda
3/6/2019 10:23:55 AM



#60
4-Bromofluorobenzene
Concen: 94.795 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.4	67.9	101.9
176	83.2	66.4	99.6





#61

Tetrachloroethene

Concen: 20.640 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion:164 Resp: 158800

Ion Ratio Lower Upper

164 100

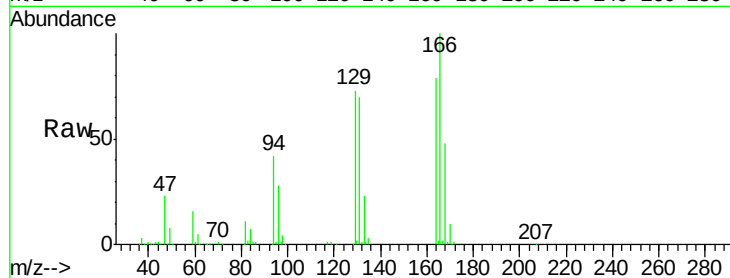
166 126.3 104.6 157.0

129 92.5 75.3 112.9

131 88.3 74.3 111.5

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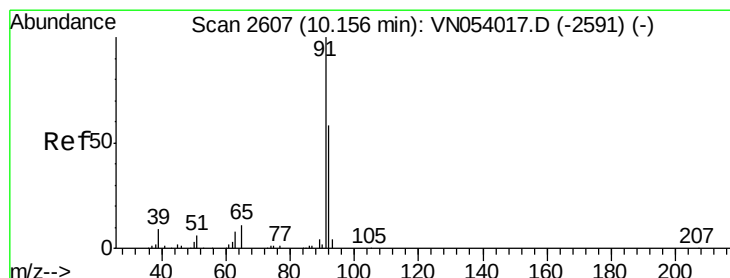
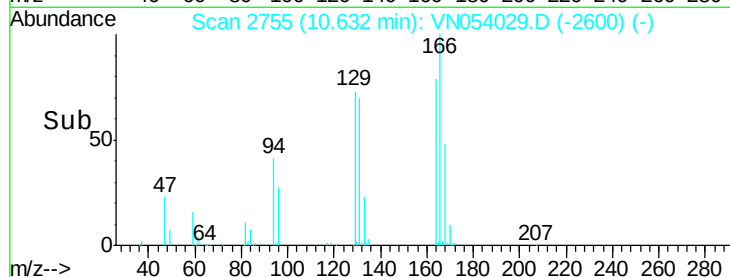
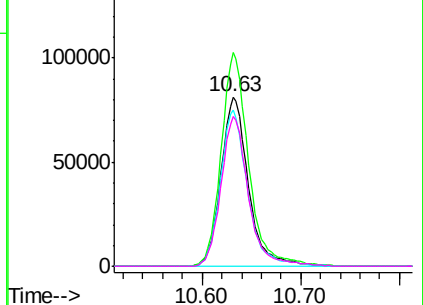


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 21.019 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054029.D

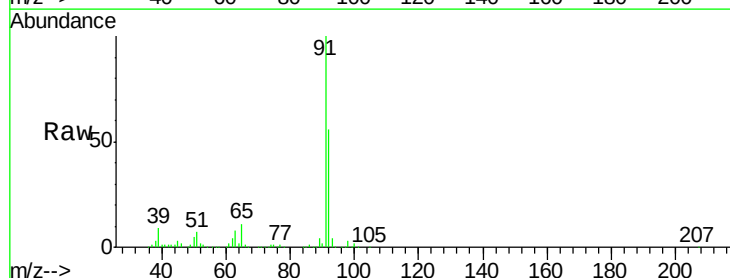
Acq: 1 Mar 2019 15:04

Tgt Ion: 91 Resp: 650124

Ion Ratio Lower Upper

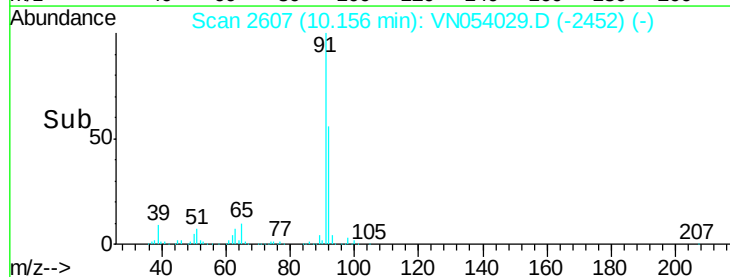
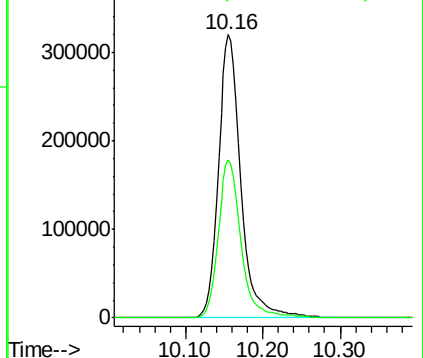
91 100

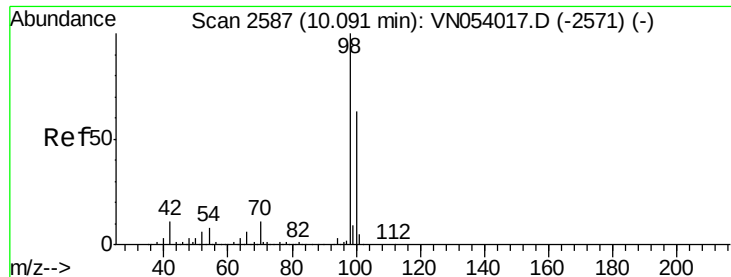
92 56.6 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 21.019 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion: 98 Resp: 815067

Ion Ratio Lower Upper

98 100

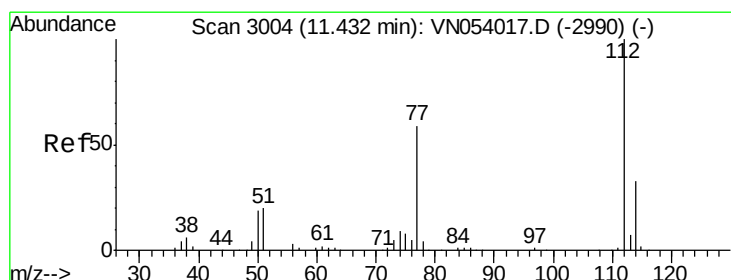
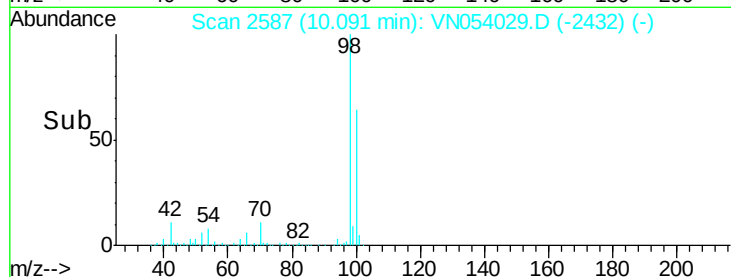
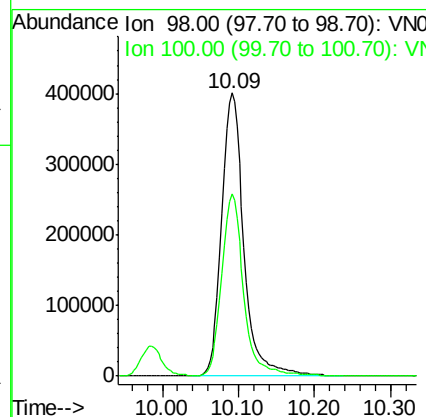
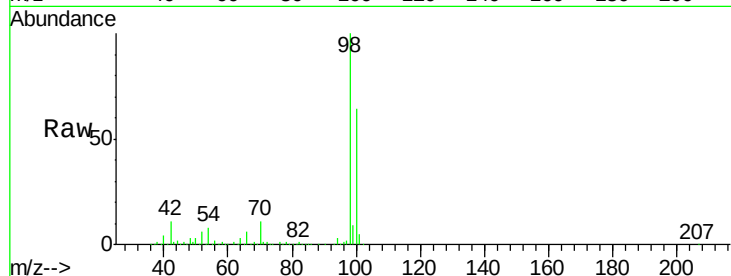
100 63.7 51.1 76.7

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#64

Chlorobenzene

Concen: 20.405 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054029.D

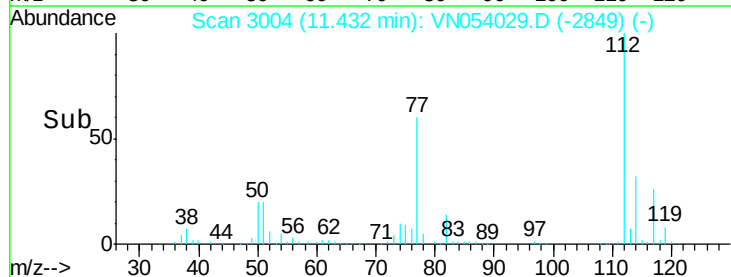
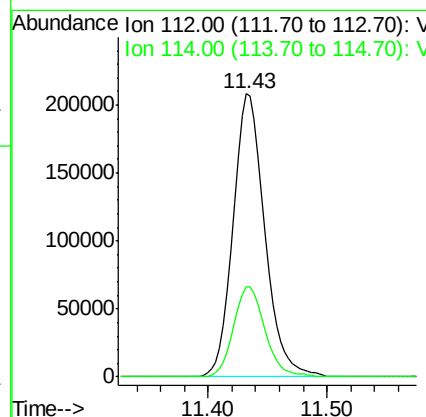
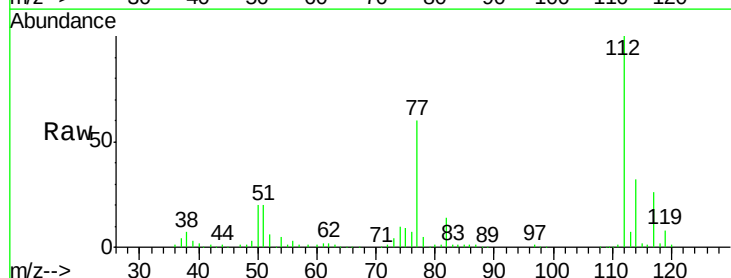
Acq: 1 Mar 2019 15:04

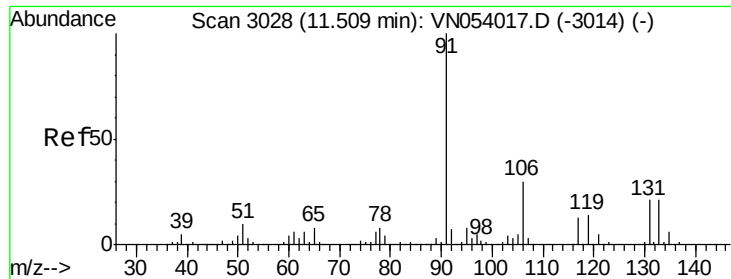
Tgt Ion: 112 Resp: 384320

Ion Ratio Lower Upper

112 100

114 31.7 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 20.820 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0301WBSD01

Tot Ion:131 Resp: 143983

Ion Ratio Lower Upper

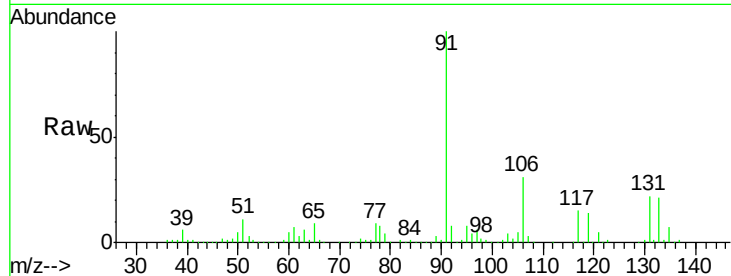
131 100

133 94.8 0.0 193.4

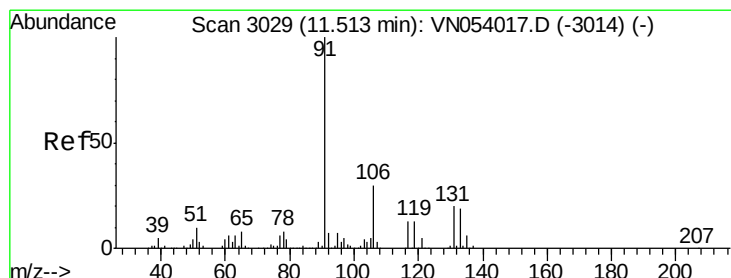
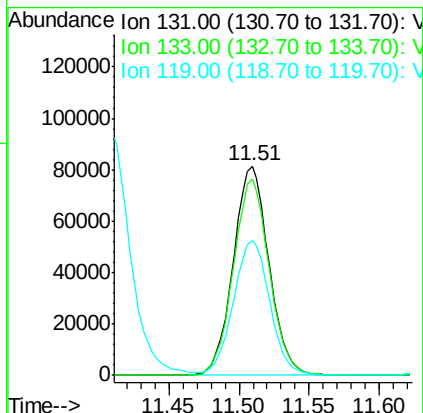
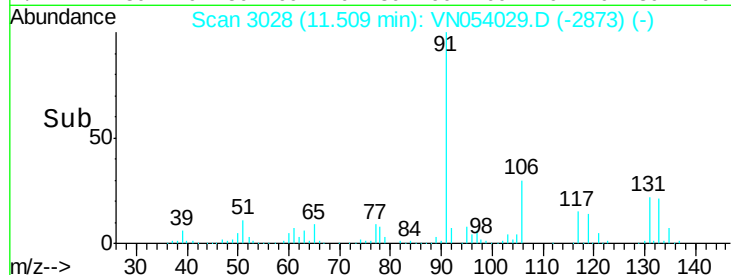
119 66.0 0.0 133.0

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Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 20.302 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN054029.D

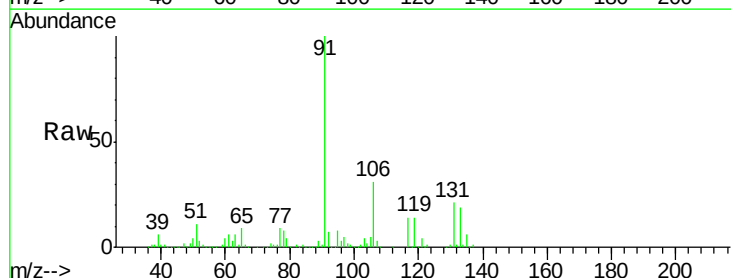
Acq: 1 Mar 2019 15:04

Tgt Ion: 91 Resp: 656374

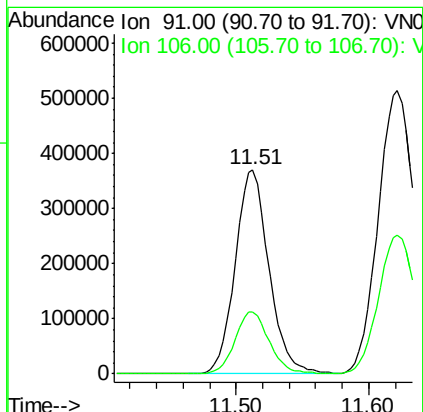
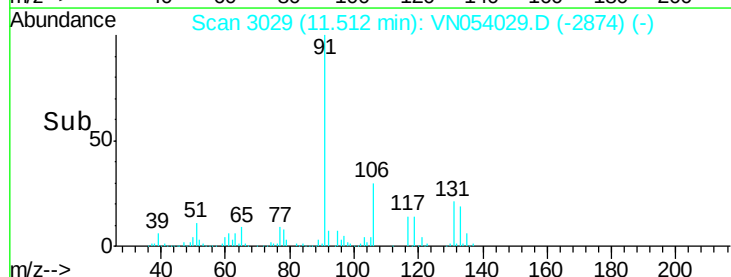
Ion Ratio Lower Upper

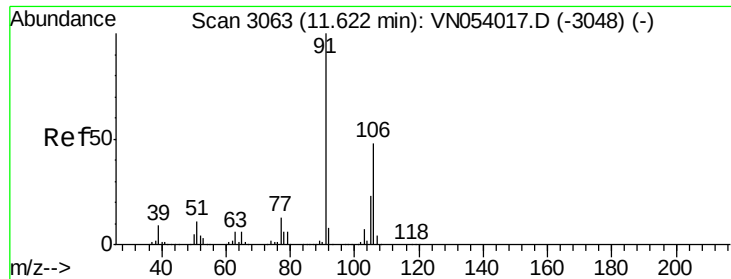
91 100

106 30.6 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





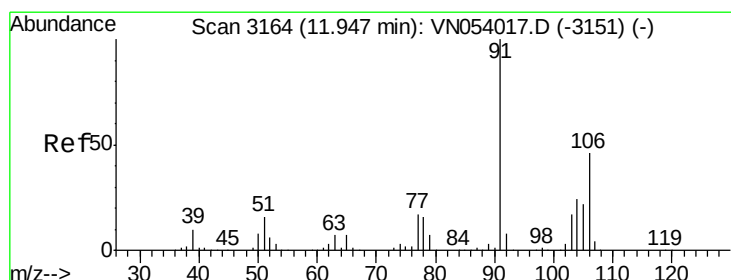
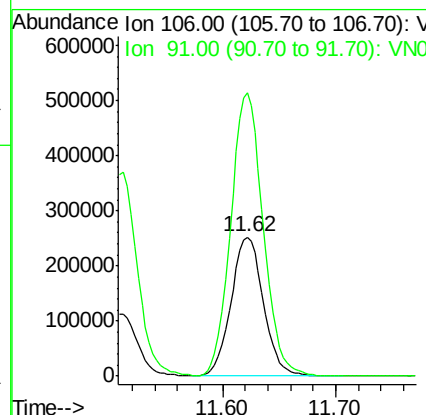
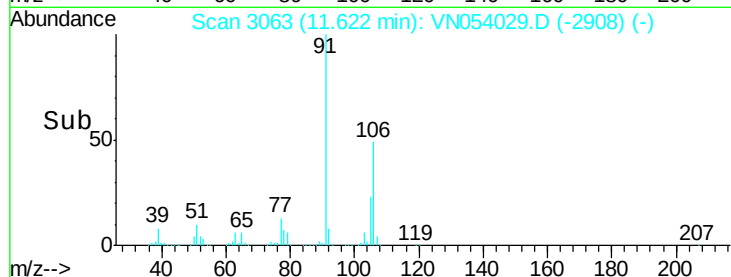
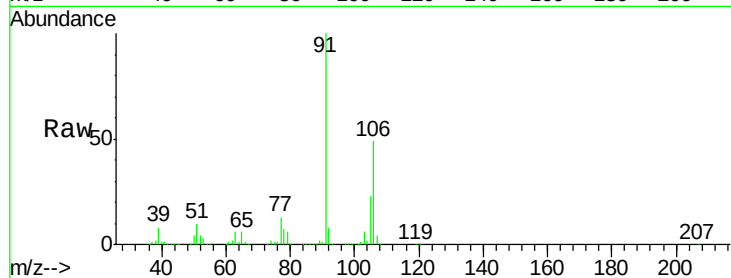
#67
m/p-Xylenes
Concen: 41.259 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
VN0301WBSD01

Tot Ion:106 Resp: 502219
Ion Ratio Lower Upper
106 100
91 203.2 163.9 245.9

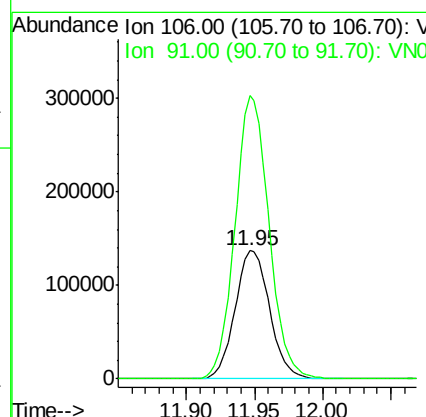
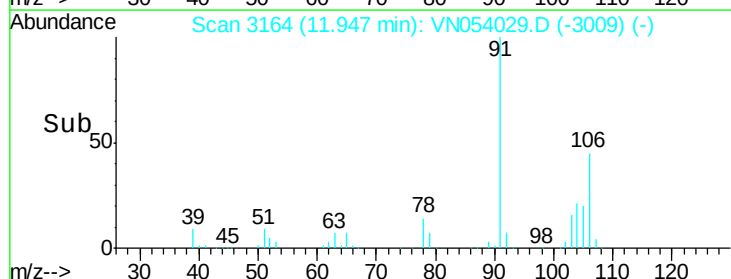
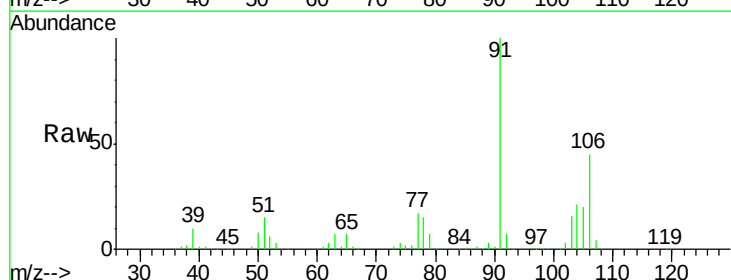
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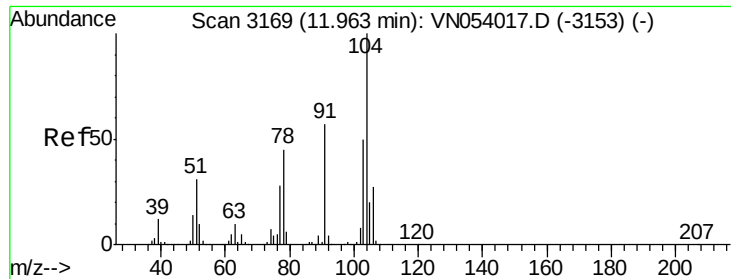
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#68
o-Xylene
Concen: 20.389 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion:106 Resp: 240581
Ion Ratio Lower Upper
106 100
91 217.8 107.8 323.4





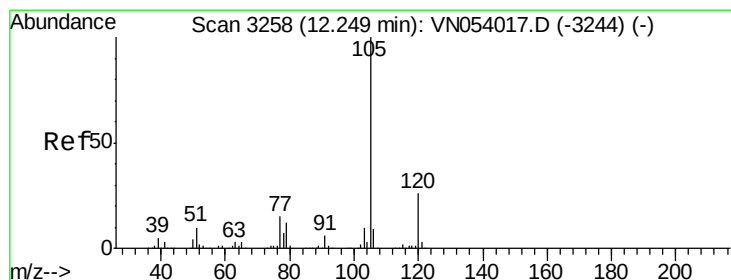
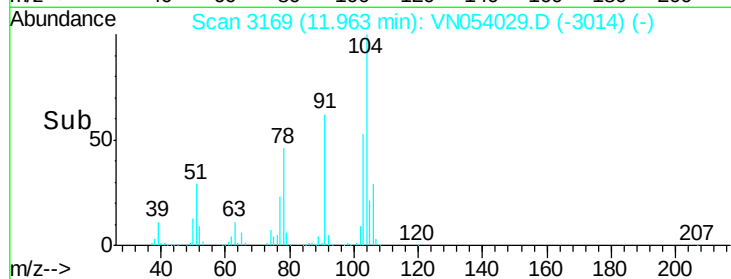
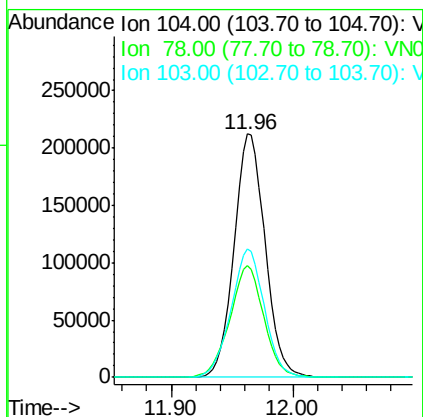
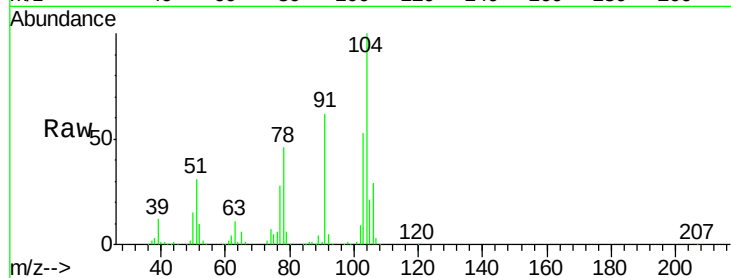
#69
Stvrene
Concen: 20.082 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.3	39.3	58.9
103	56.6	44.6	66.8

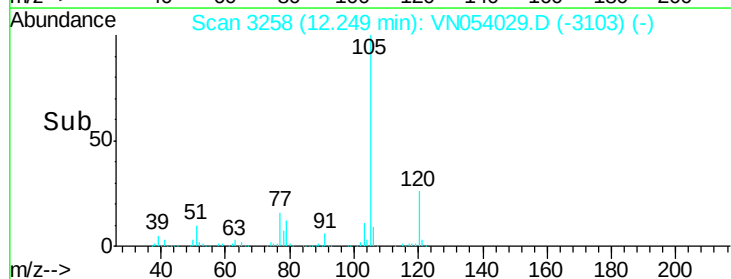
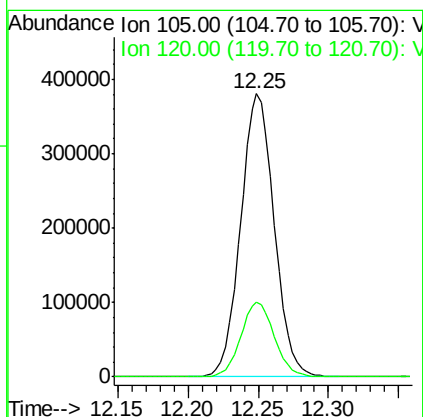
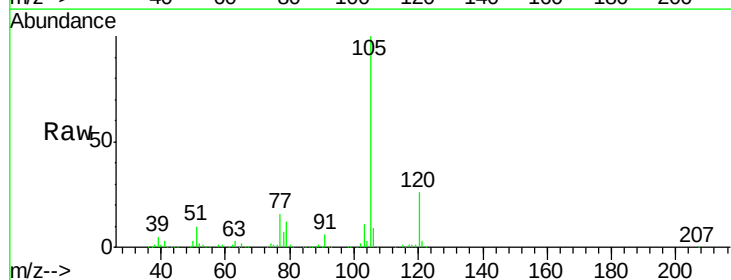
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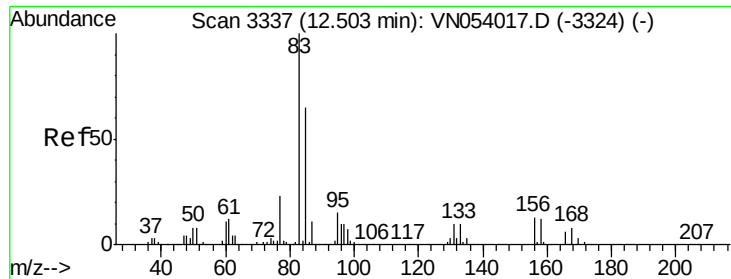
MMDadoda
3/6/2019 10:23:55 AM



#70
Isopropylbenzene
Concen: 20.462 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	18.6	34.6





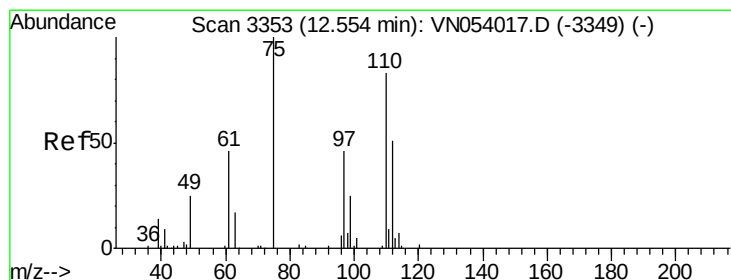
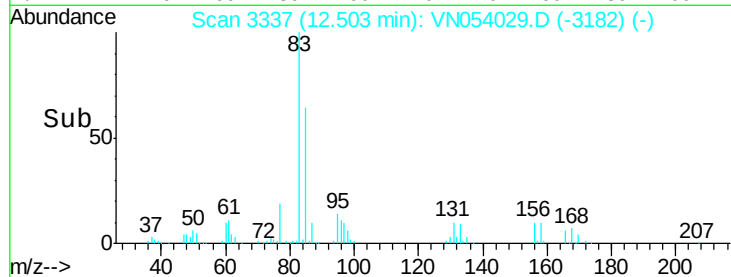
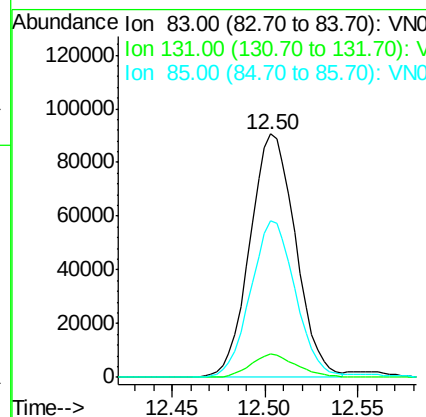
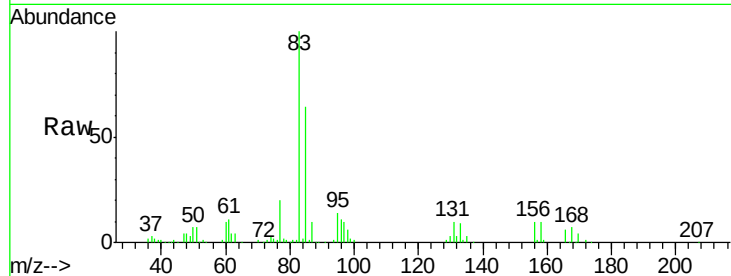
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.301 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampled :
 VN0301WBSD01

Tot Ion	83	Resp	155176
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.9	14.6
85	63.0	32.2	96.6

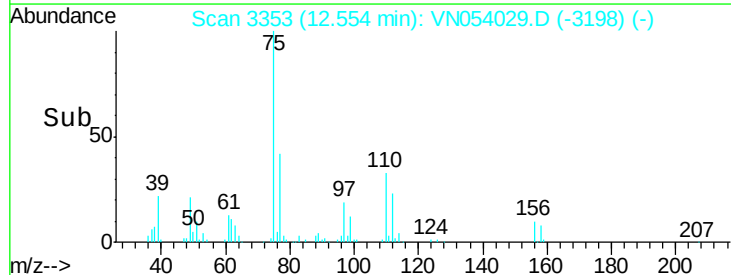
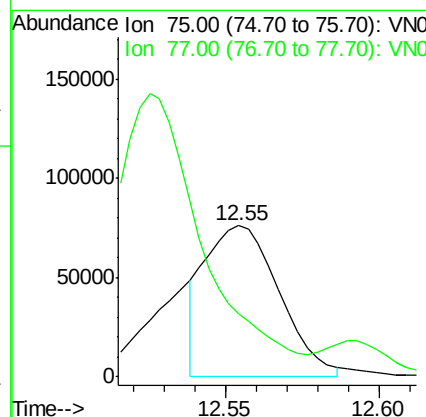
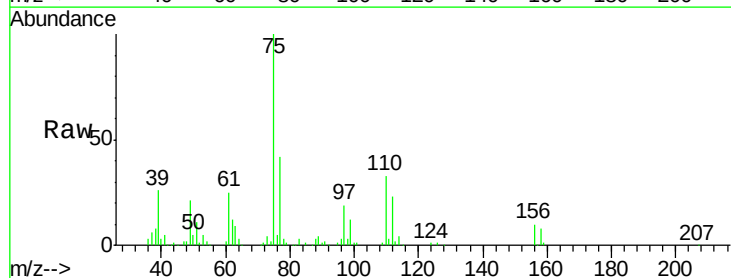
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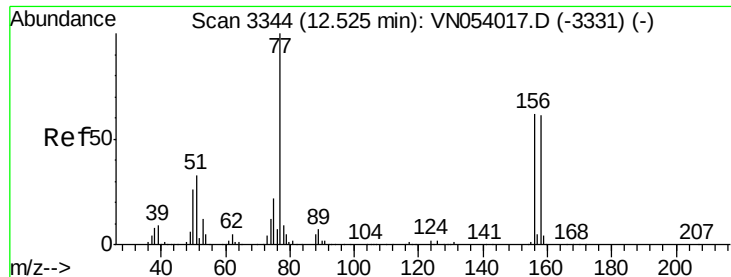
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#72
 1,2,3-Trichloropropane
 Concen: 22.192 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	75	Resp	128800
Ion Ratio	100	Lower	Upper
75	100		
77	227.1	0.0	514.8





#73

Bromobenzene

Concen: 19.586 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

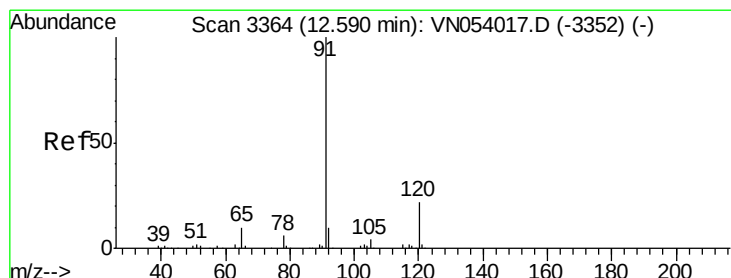
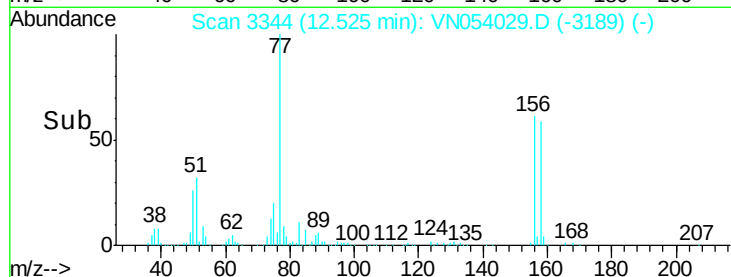
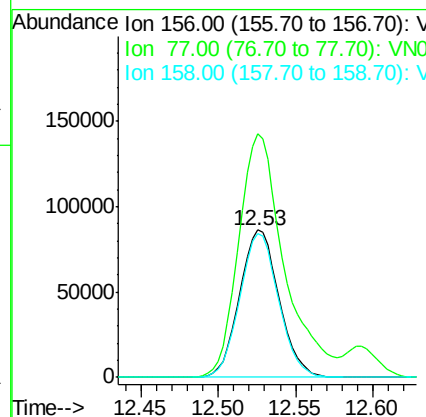
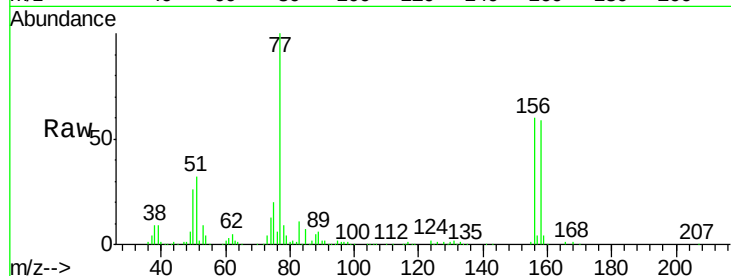
ClientSampled :

VN0301WBSD01

Tot Ion:	156	Resp:	152931
Ion Ratio	Lower	Upper	
156	100		
77	191.2	0.0	382.6
158	95.9	0.0	196.8

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#74

n-propylbenzene

Concen: 19.702 ug/l

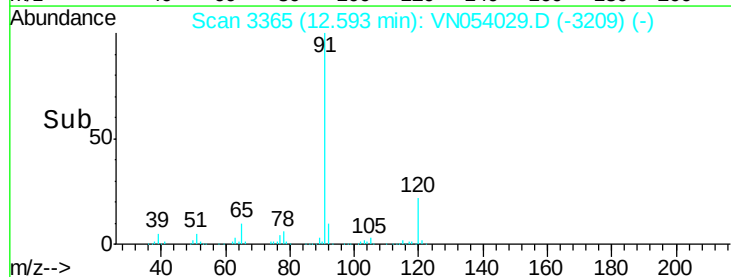
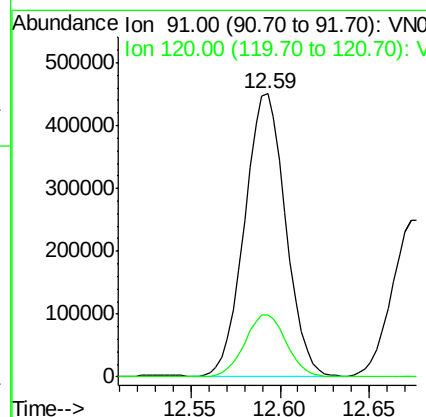
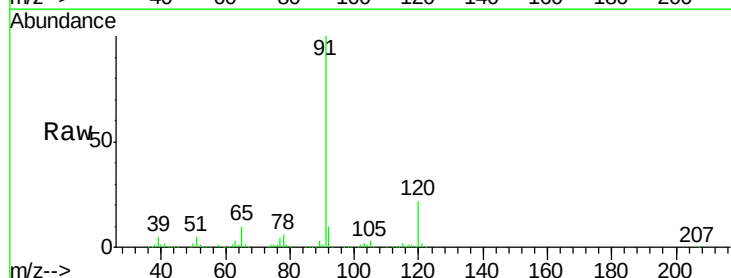
RT: 12.59 min Scan# 3365

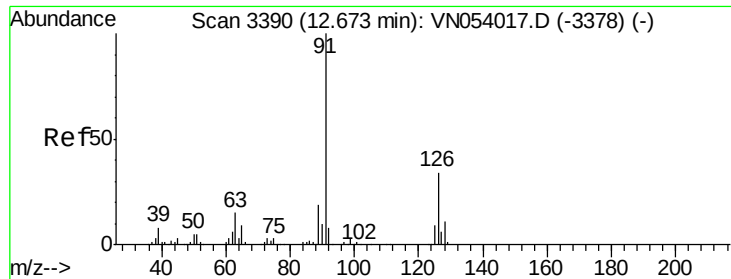
Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	91	Resp:	726562
Ion Ratio	Lower	Upper	
91	100		
120	22.1	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.051 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

VN0301WBSD01

Tot Ion: 91 Resp: 433010

Ion Ratio Lower Upper

91 100

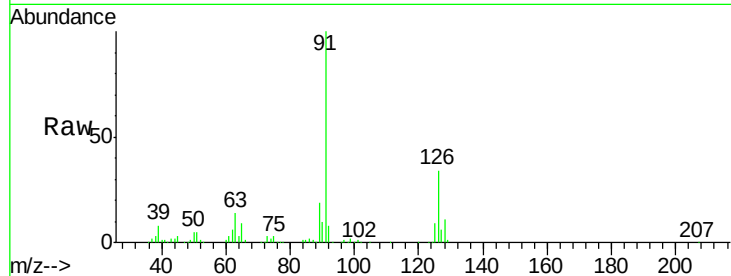
126 33.6 0.0 68.4

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Abundance Ion 91.00 (90.70 to 91.70): VN054017.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN054017.D (-3378) (-)

400000

300000

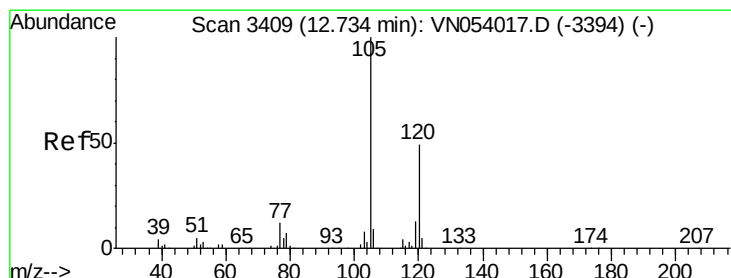
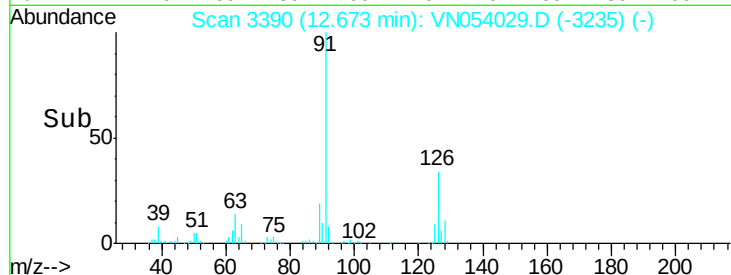
200000

100000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.685 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN054029.D

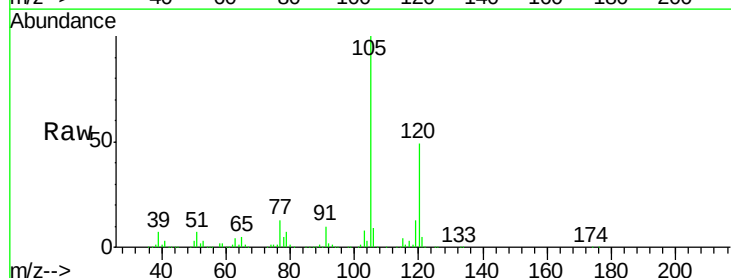
Acq: 1 Mar 2019 15:04

Tgt Ion: 105 Resp: 516415

Ion Ratio Lower Upper

105 100

120 48.8 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN054017.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054017.D (-3394) (-)

300000

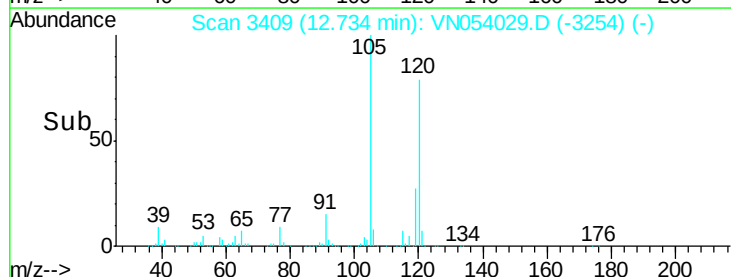
200000

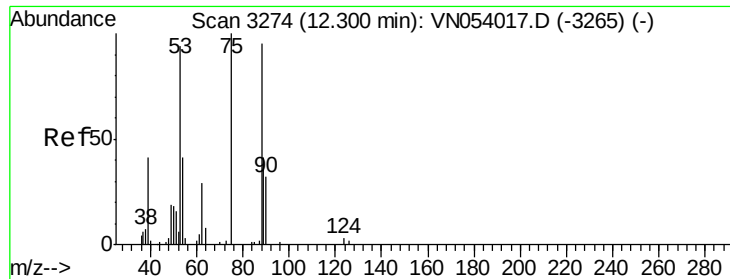
100000

0

12.65 12.70 12.75 12.80

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 17.489 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

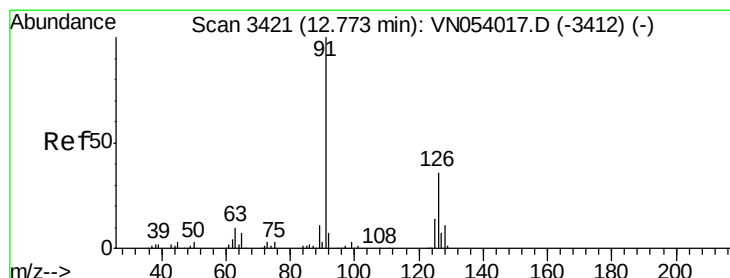
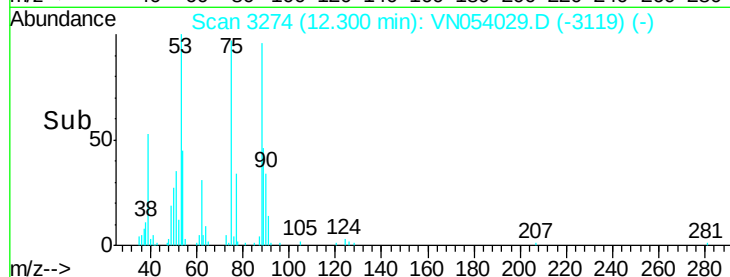
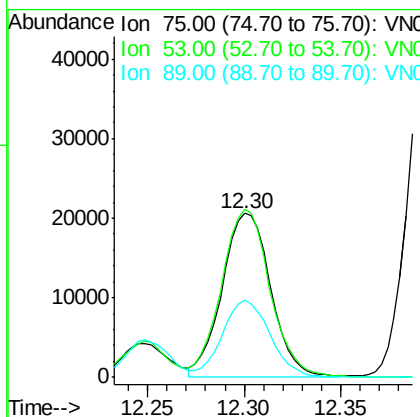
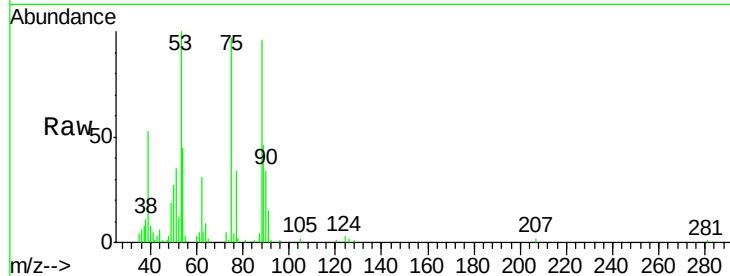
ClientSampled :

VN0301WBSD01

Tot Ion:	75	Resp:	36122
Ion	Ratio	Lower	Upper
75	100		
53	102.7	48.5	145.6
89	47.2	21.7	65.1

Manual Integrations
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#78

4-Chlorotoluene

Concen: 19.389 ug/l

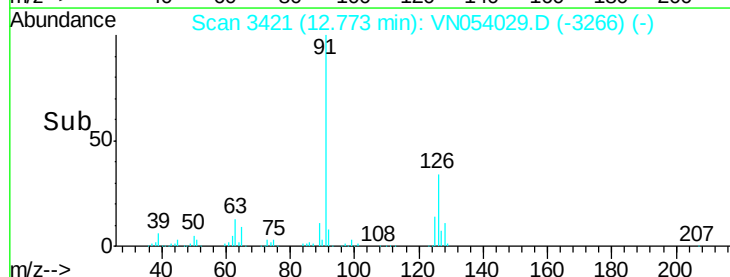
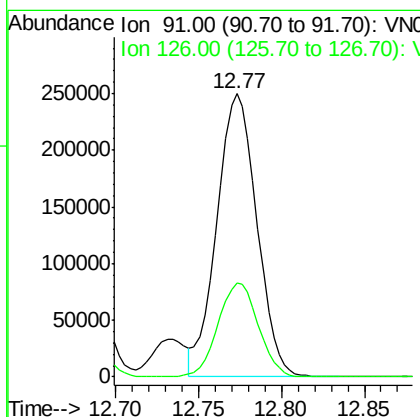
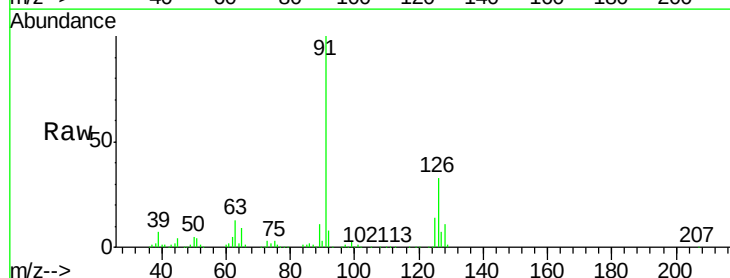
RT: 12.77 min Scan# 3421

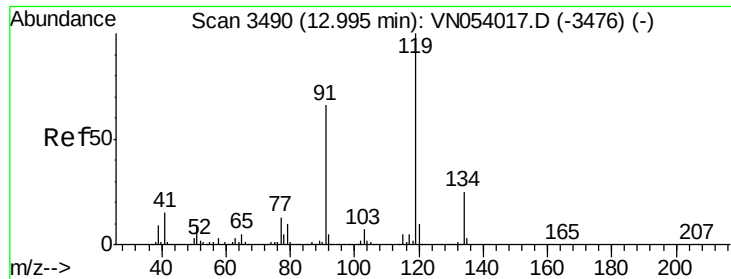
Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	91	Resp:	418986
Ion	Ratio	Lower	Upper
91	100		
126	33.4	0.0	68.2





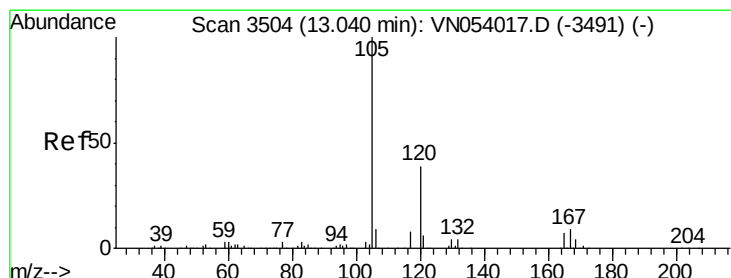
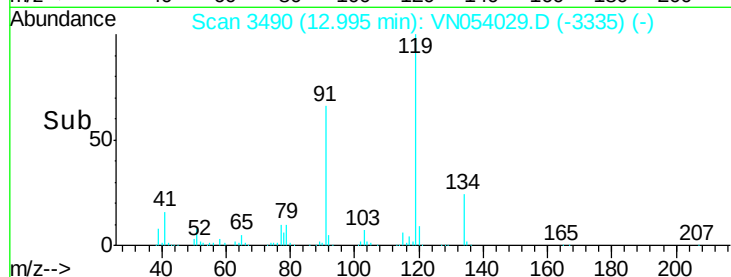
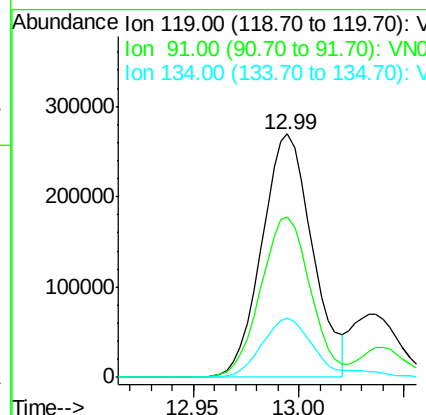
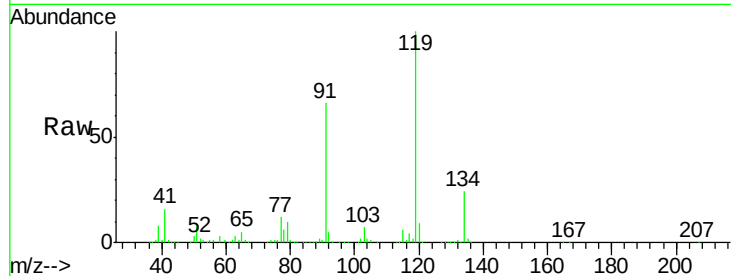
#79
tert-butylbenzene
Concen: 19.591 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.2	0.0	129.8
134	24.2	0.0	52.2

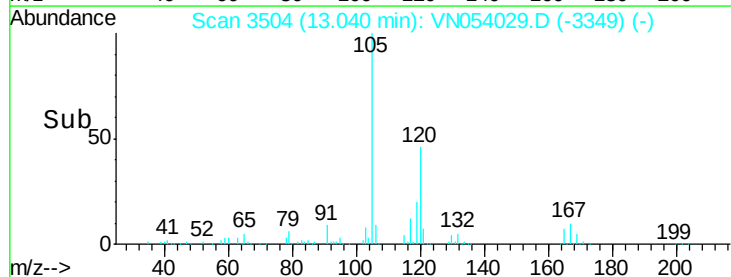
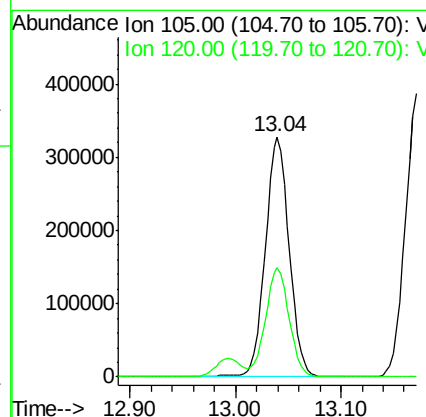
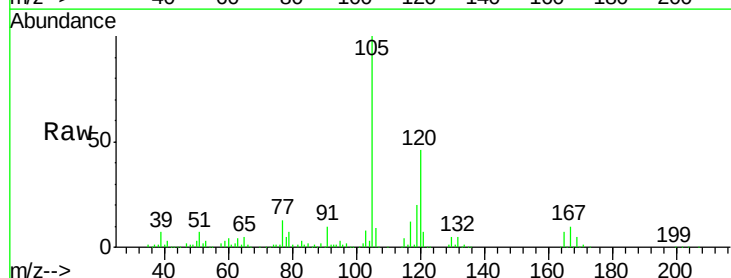
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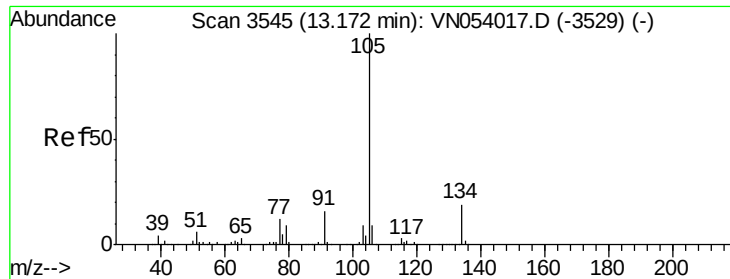
MMDadoda
3/6/2019 10:23:55 AM



#80
1,2,4-Trimethylbenzene
Concen: 19.754 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	0.0	91.0





#81

sec-Butylbenzene

Concen: 19.313 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

ClientSampled :

VN0301WBSD01

Tot Ion:105 Resp: 608881

Ion Ratio Lower Upper

105 100

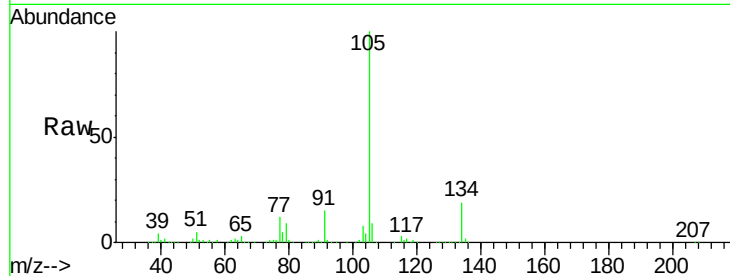
134 19.8 0.0 40.4

Manual Integrations

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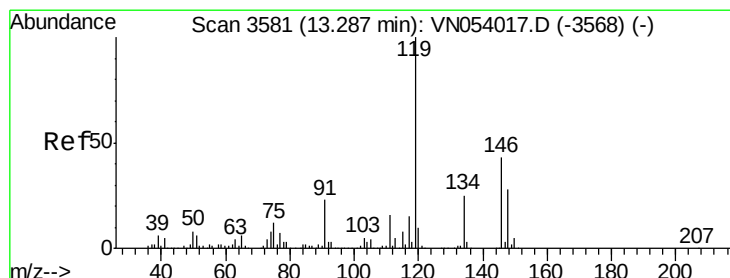
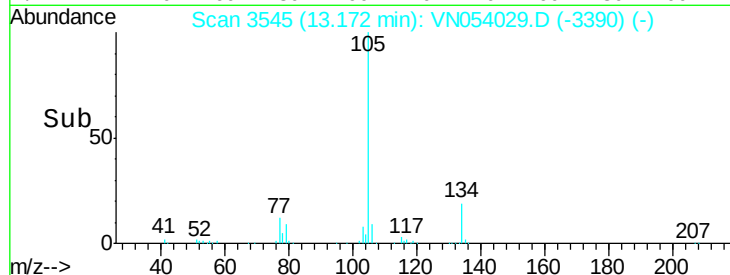
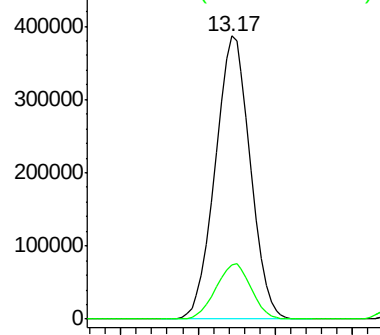
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 18.824 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

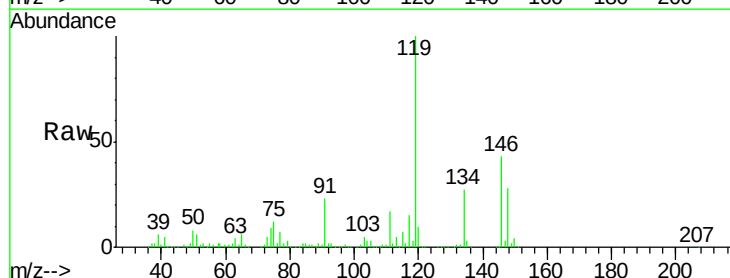
Tgt Ion:119 Resp: 506733

Ion Ratio Lower Upper

119 100

134 26.8 0.0 52.6

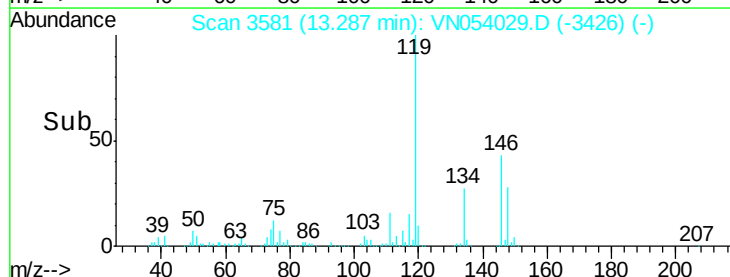
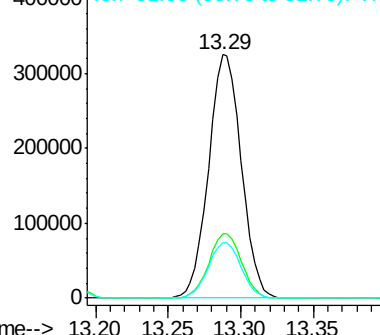
91 23.0 0.0 46.2

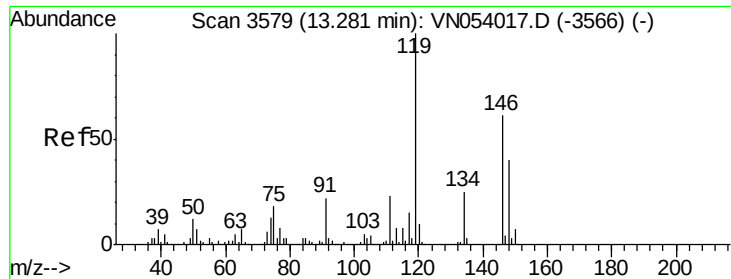


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





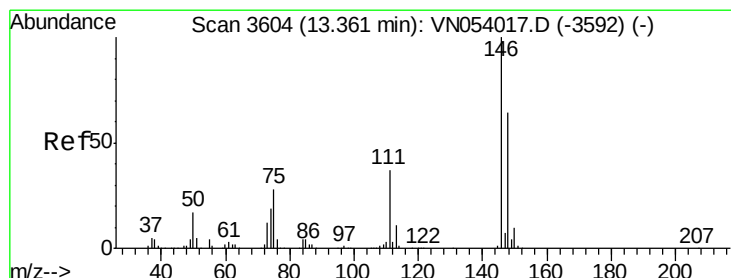
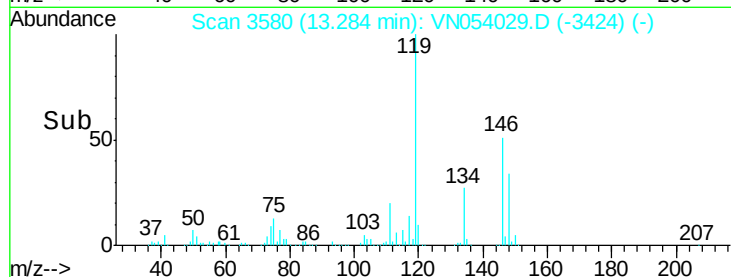
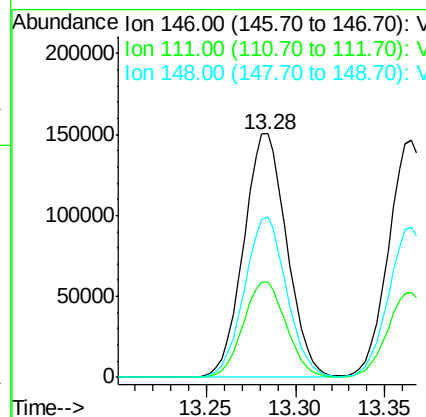
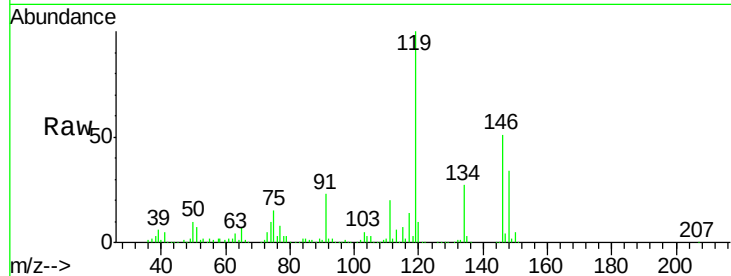
#83
 1,3-Dichlorobenzene
 Concen: 18.485 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.7	59.0
148	64.3	32.3	96.8

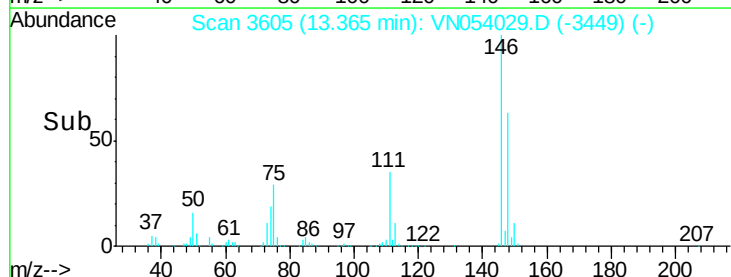
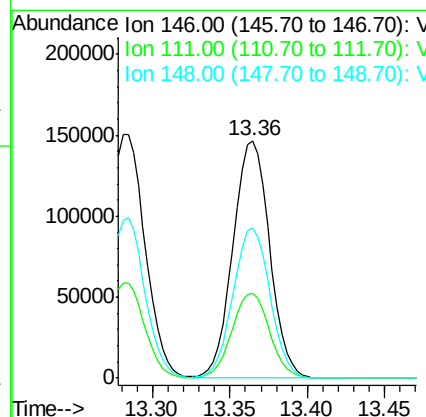
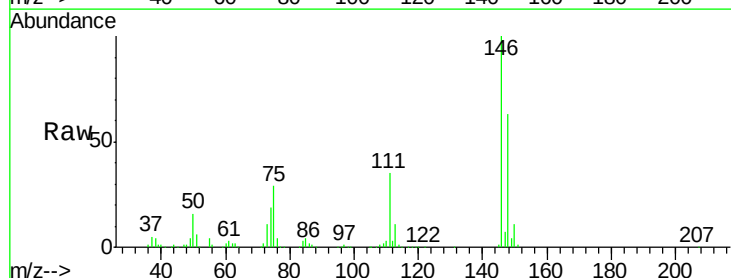
Manual Integrations
 APPROVED

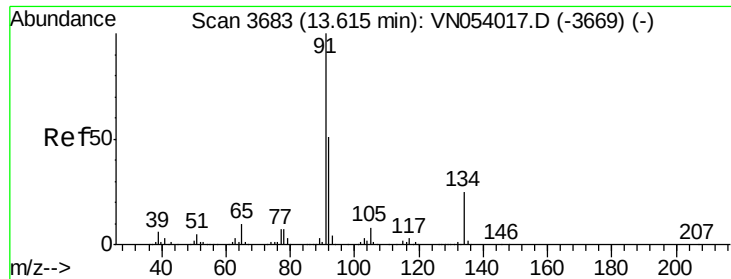
MMDadoda
 3/6/2019 10:23:55 AM



#84
 1,4-Dichlorobenzene
 Concen: 18.313 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.8	56.3
148	63.9	32.5	97.4





#85

n-Butylbenzene

Concen: 16.777 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Instrument :

MSVOA_N

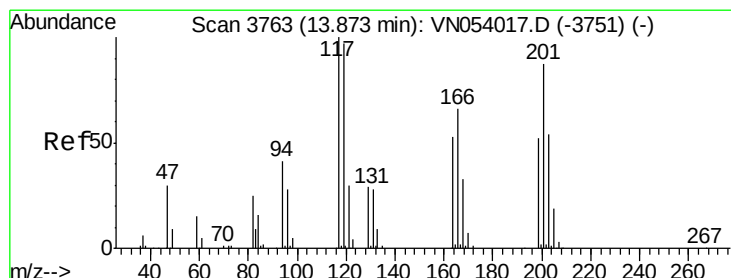
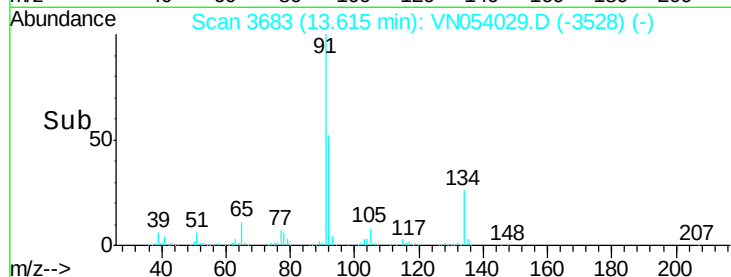
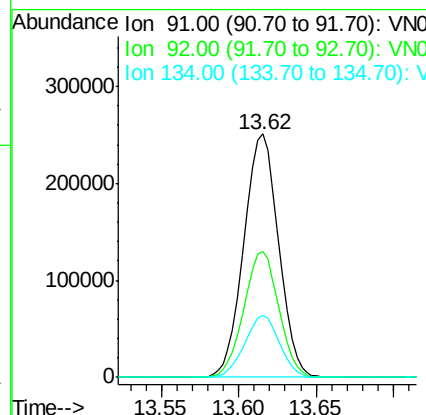
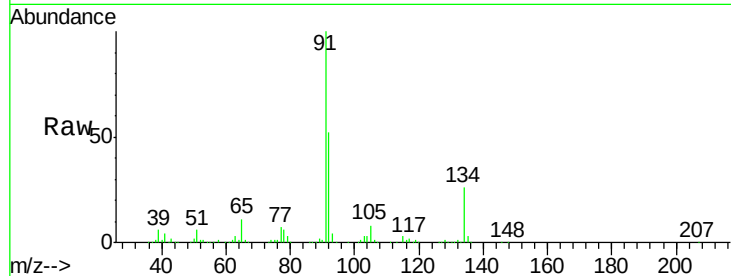
ClientSampleId :

VN0301WBSD01

Tot Ion:	91	Resp:	393627
Ion Ratio	Lower	Upper	
91	100		
92	51.8	0.0	104.2
134	25.6	0.0	50.6

Manual Integrations
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#86

Hexachloroethane

Concen: 18.514 ug/l

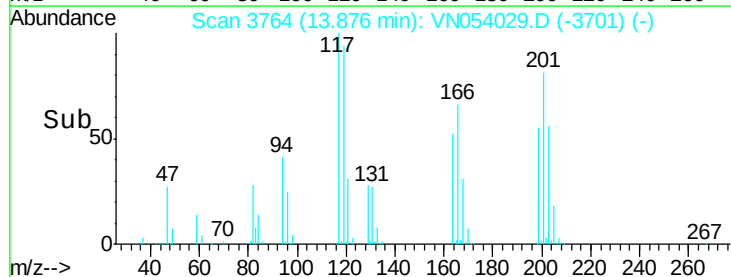
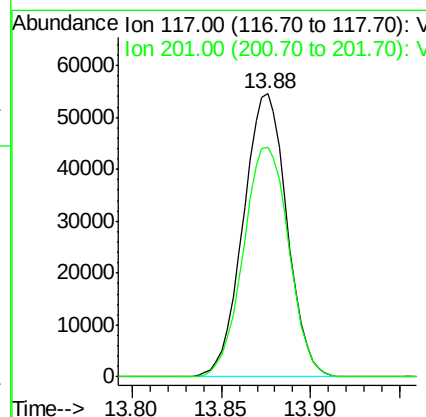
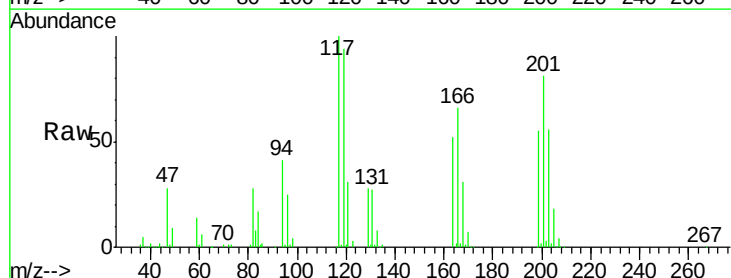
RT: 13.88 min Scan# 3764

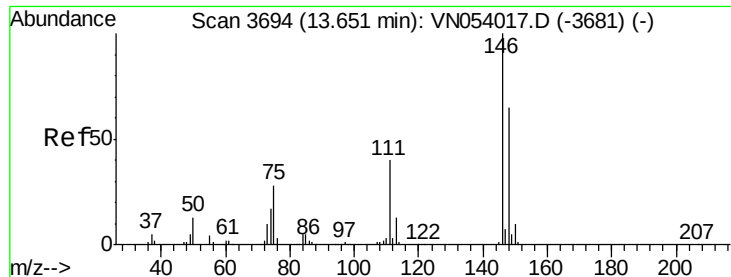
Delta R.T. 0.00 min

Lab File: VN054029.D

Acq: 1 Mar 2019 15:04

Tgt Ion:	117	Resp:	93179
Ion Ratio	Lower	Upper	
117	100		
201	84.6	43.8	131.3





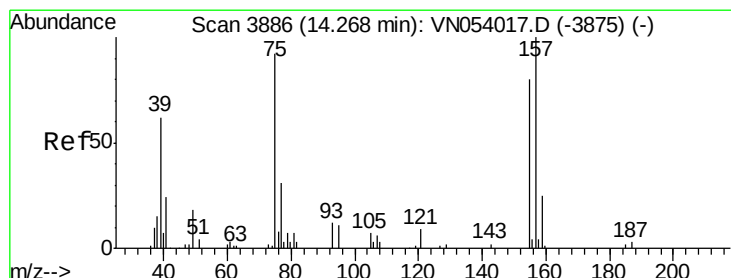
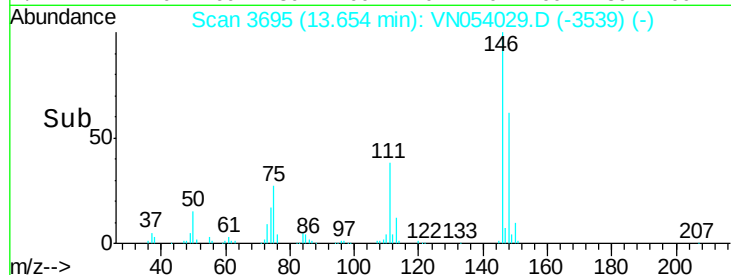
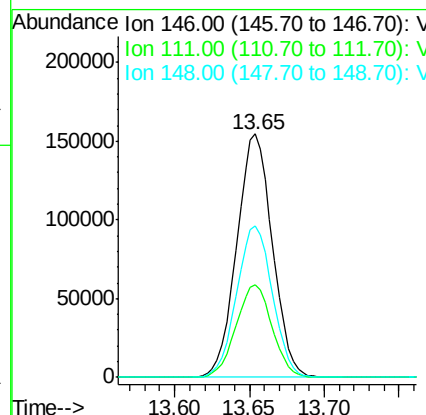
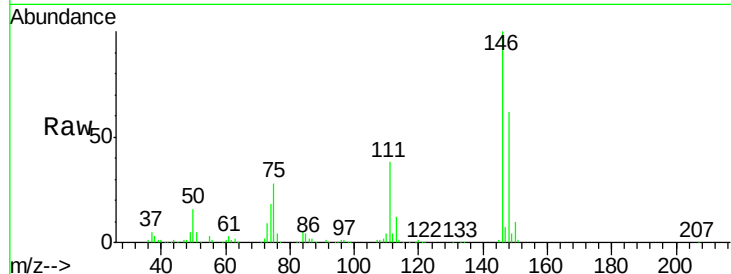
#87
 1,2-Dichlorobenzene
 Concen: 19.161 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampled :
 VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	20.3	60.8
148	62.8	32.1	96.5

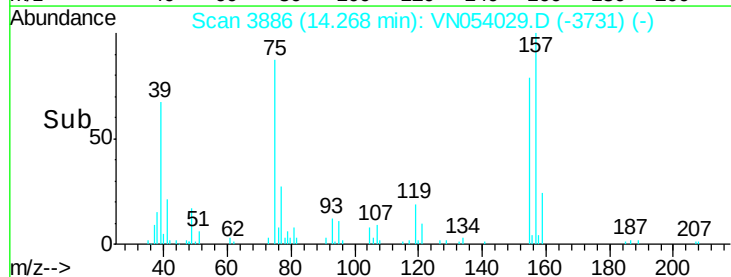
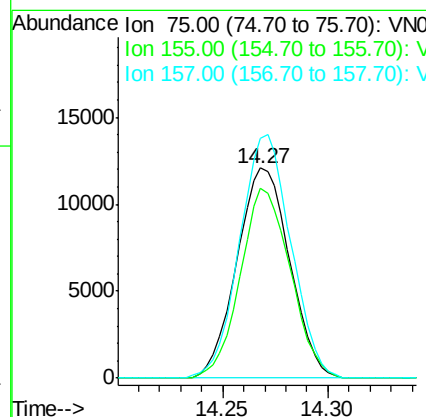
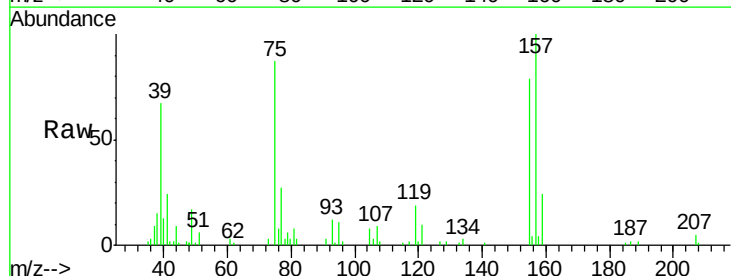
Manual Integrations
 APPROVED

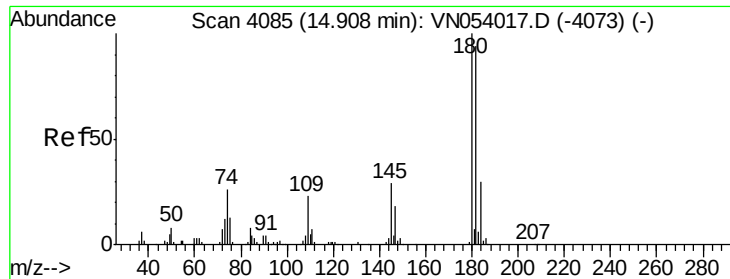
MMDadoda
 3/6/2019 10:23:55 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.982 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.8	72.2	108.2
157	112.6	94.2	141.2





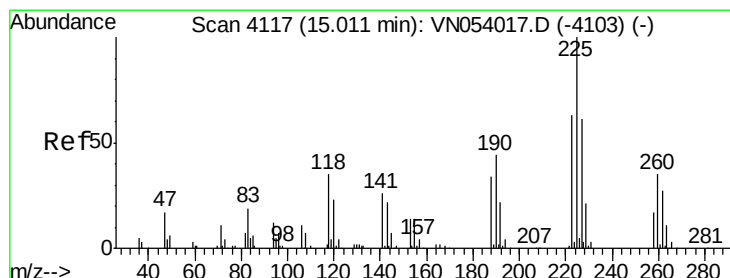
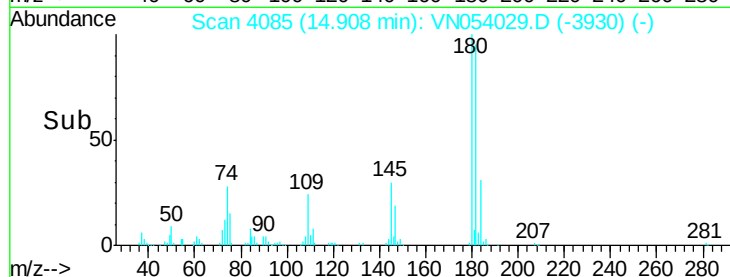
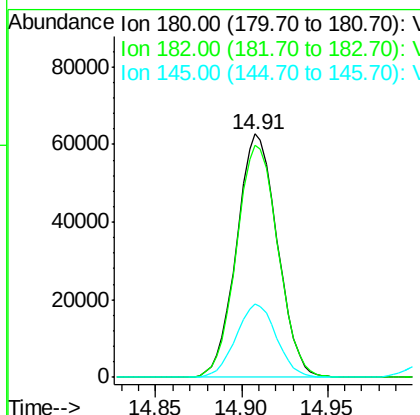
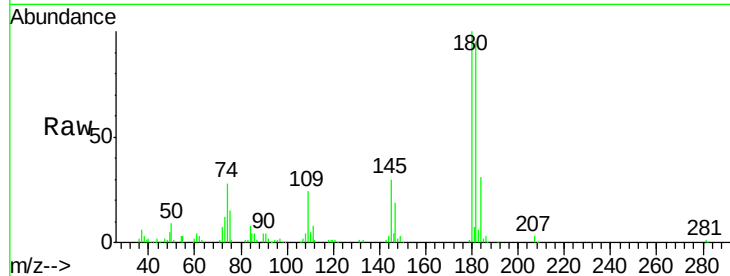
#89
 1,2,4-Trichlorobenzene
 Concen: 15.217 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Instrument :
 MSVOA_N
 ClientSampled :
 VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	76.6	114.8
145	29.9	23.6	35.4

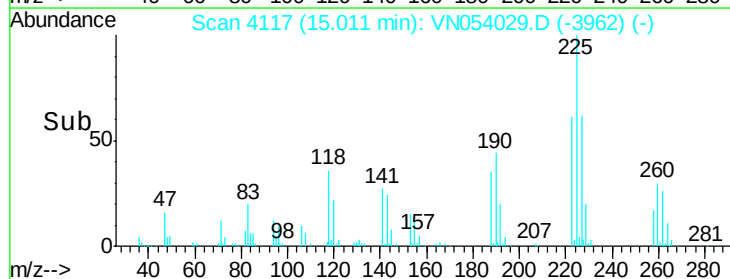
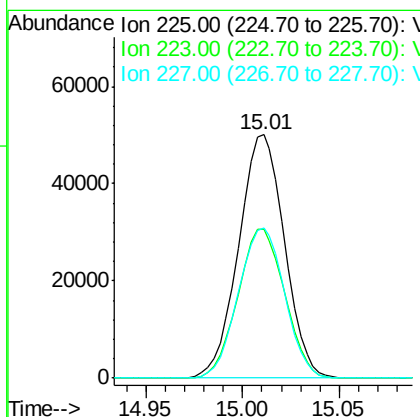
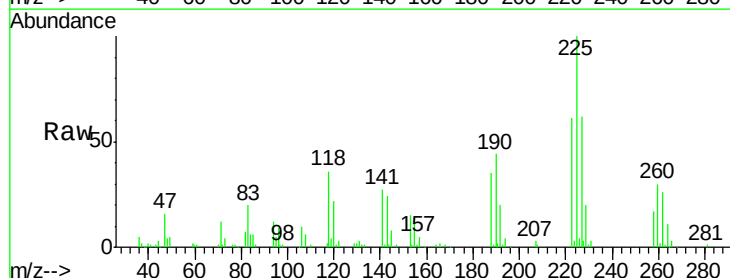
Manual Integrations
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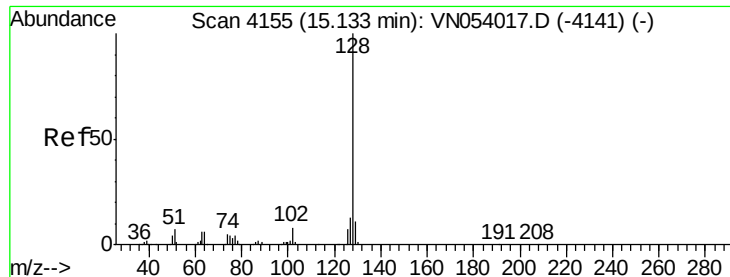
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 3/6/2019 10:23:55 AM



#90
 Hexachlorobutadiene
 Concen: 16.752 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN054029.D
 Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	0.0	125.6
227	62.1	0.0	127.8





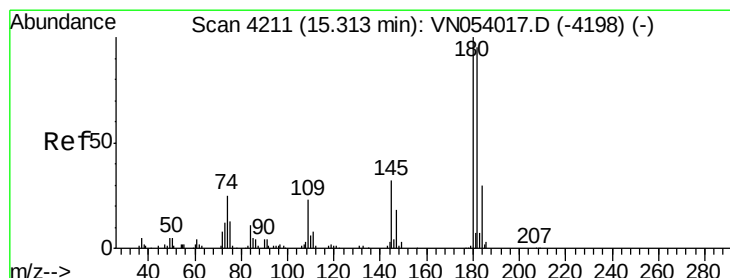
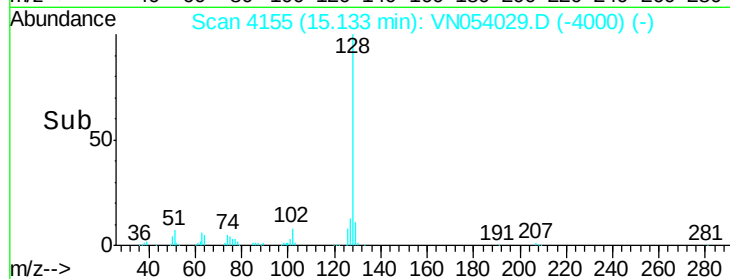
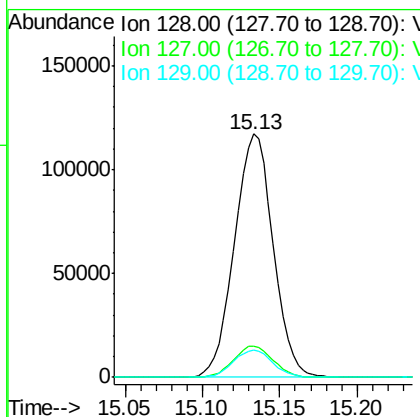
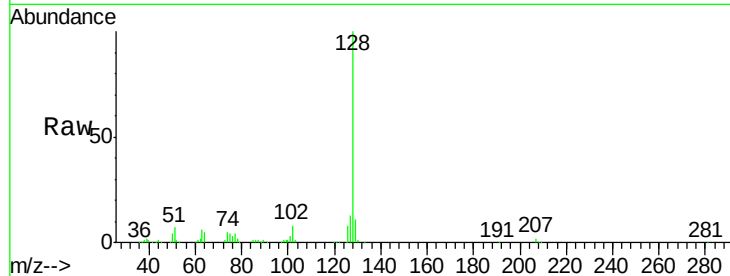
#91
Naphthalene
Concen: 17.981 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
VN0301WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	9.9	14.9
129	11.4	8.5	12.7

Manual Integrations
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MMDadoda
3/6/2019 10:23:55 AM



#92
1,2,3-Trichlorobenzene
Concen: 15.975 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN054029.D
Acq: 1 Mar 2019 15:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	0.0	196.2
145	31.2	0.0	62.2

