

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\
 Data File : VN053512.D
 Acq On : 22 Jan 2019 12:04
 Operator : JC/SP
 Sample : VN0122MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Manual Integrations
 APPROVED

MMDadoda
 1/23/2019 11:00:39 AM

Quant Time: Jan 23 03:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	721955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1061963	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	950246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	466723	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	363625	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
35) Dibromofluoromethane	7.59	113	330031	54.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.90%	
50) Toluene-d8	10.09	98	1318126	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.40	95	448699	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	120018	20.677	ug/l	98
3) Chloromethane	2.06	50	159220	19.185	ug/l	99
4) Vinyl Chloride	2.19	62	162429	20.304	ug/l	99
5) Bromomethane	2.57	94	116212	21.172	ug/l	97
6) Chloroethane	2.71	64	102462	21.184	ug/l	98
7) Trichlorofluoromethane	3.03	101	226356	21.632	ug/l	99
8) Diethyl Ether	3.41	74	84613	21.530	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	144727	21.839	ug/l	98
10) Methyl Iodide	3.96	142	206996	20.440	ug/l	100
11) Tert butyl alcohol	4.77	59	40852	116.997	ug/l #	90
12) 1,1-Dichloroethene	3.74	96	135431	21.070	ug/l	97
13) Acrolein	3.61	56	61885	105.305	ug/l	99
14) Allyl chloride	4.33	41	228747	21.909	ug/l	100
15) Acrylonitrile	4.98	53	244327	106.325	ug/l	99
16) Acetone	3.81	43	173948	103.900	ug/l	100
17) Carbon Disulfide	4.06	76	375225	19.304	ug/l	100
18) Methyl Acetate	4.32	43	121895	21.610	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	377587	22.109	ug/l	98
20) Methylene Chloride	4.55	84	158577	20.746	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	148566	21.619	ug/l	99
22) Diisopropyl ether	5.95	45	483233	22.171	ug/l	98
23) Vinyl Acetate	5.90	43	1460239	108.988	ug/l	99
24) 1,1-Dichloroethane	5.85	63	284648	22.092	ug/l	100
25) 2-Butanone	6.83	43	273693	106.085	ug/l	99
26) 2,2-Dichloropropane	6.83	77	211200	21.710	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	172456	21.946	ug/l	100
28) Bromochloromethane	7.19	49	108510	19.116	ug/l	96
29) Tetrahydrofuran	7.21	42	179622	106.946	ug/l	99
30) Chloroform	7.37	83	278024	22.147	ug/l	100
31) Cyclohexane	7.65	56	264015	20.925	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	233645	21.940	ug/l	100
36) 1,1-Dichloropropene	7.79	75	215325	22.264	ug/l	99
37) Ethyl Acetate	6.92	43	120470	21.651	ug/l	99
38) Carbon Tetrachloride	7.77	117	203064	22.178	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	258664	21.639	ug/l	99
40) Benzene	8.04	78	649385	22.096	ug/l	100
41) Methacrylonitrile	7.17	41	67814	20.904	ug/l	93
42) 1,2-Dichloroethane	8.12	62	192725	22.509	ug/l	99
43) Isopropyl Acetate	8.16	43	227891	22.777	ug/l	99
44) Trichloroethene	8.83	130	183816	22.553	ug/l	98
45) 1,2-Dichloropropane	9.12	63	176075	22.619	ug/l	99
46) Dibromomethane	9.21	93	96434	21.562	ug/l	97
47) Bromodichloromethane	9.40	83	209692	22.295	ug/l	99
48) Methyl methacrylate	9.20	41	109519	21.200	ug/l	98
49) 1,4-Dioxane	9.20	88	24625	488.092	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	596769	109.263	ug/l	100
52) Toluene	10.15	92	402793	22.076	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	205600	21.566	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	251969	22.546	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	139167	22.123	ug/l	98
56) Ethyl methacrylate	10.43	69	173169	20.657	ug/l	98
57) 1,3-Dichloropropane	10.71	76	243585	22.385	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	434581	98.752	ug/l	99
59) 2-Hexanone	10.75	43	406388	105.993	ug/l	99
60) Dibromochloromethane	10.90	129	158180	22.170	ug/l	99
61) 1,2-Dibromoethane	11.00	107	135841	21.352	ug/l	100
64) Tetrachloroethene	10.63	164	207659	23.189	ug/l	98
65) Chlorobenzene	11.43	112	446229	22.186	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	159034	22.728	ug/l	99
67) Ethyl Benzene	11.51	91	750741	21.901	ug/l	100
68) m/p-Xylenes	11.62	106	581475	44.929	ug/l	99
69) o-Xylene	11.95	106	283180	22.518	ug/l	99
70) Styrene	11.96	104	460890	22.582	ug/l	100
71) Bromoform	12.13	173	105324	21.864	ug/l #	98
73) Isopropylbenzene	12.25	105	747902	21.882	ug/l	100
74) N-amyl acetate	12.07	43	189228	20.769	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	147285	20.547	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	131135m	21.321	ug/l	
77) Bromobenzene	12.53	156	195875	21.749	ug/l	99
78) n-propylbenzene	12.59	91	860458	21.932	ug/l	100
79) 2-Chlorotoluene	12.67	91	502753	21.619	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	626284	22.521	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	45348	20.247	ug/l	95
82) 4-Chlorotoluene	12.77	91	522868	22.048	ug/l	99
83) tert-Butylbenzene	12.99	119	553967	22.555	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	631130	22.509	ug/l	99
85) sec-Butylbenzene	13.17	105	748447	22.219	ug/l	100
86) p-Isopropyltoluene	13.29	119	654602	22.381	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	346749	21.888	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	341447	21.487	ug/l	99
89) n-Butylbenzene	13.61	91	546649	21.927	ug/l	100
90) Hexachloroethane	13.87	117	100725	21.959	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	336019	23.055	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	21606	23.772	ug/l	99

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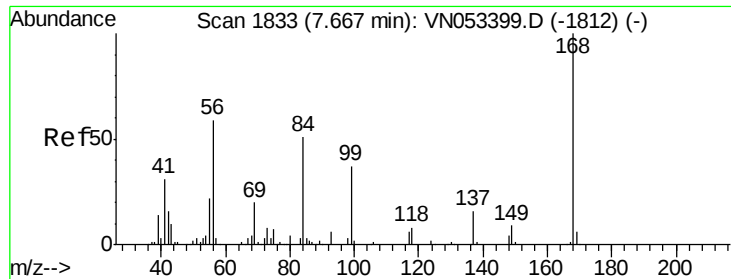
Manual Integrations
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1/23/2019 11:00:39 AM

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	152079	25.107	ug/l	100
94) Hexachlorobutadiene	15.01	225	115211	25.340	ug/l	98
95) Naphthalene	15.13	128	238481	23.411	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	109882	25.433	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion:168 Resp: 721955

Ion Ratio Lower Upper

168 100

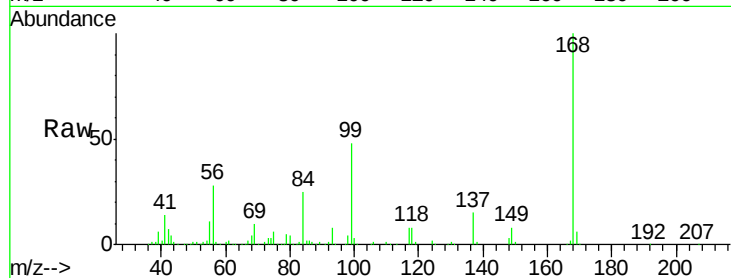
99 48.0 39.1 58.7

Manual Integrations

APPROVED

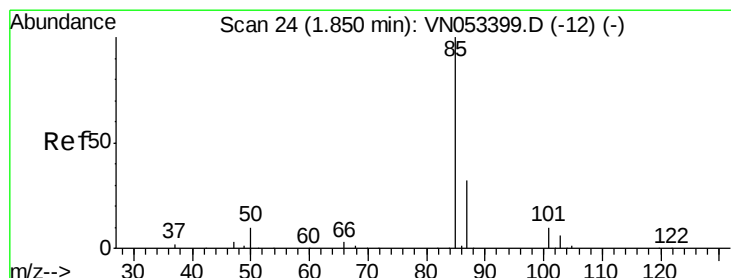
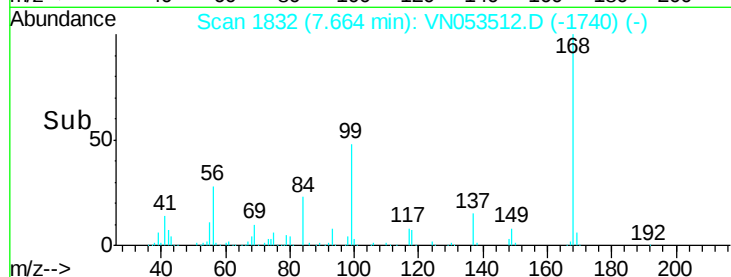
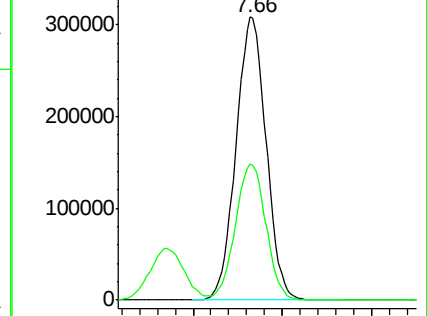
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1/23/2019 11:00:39 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 20.677 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053512.D

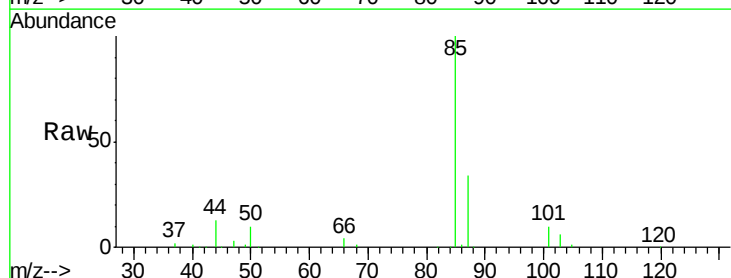
Acq: 22 Jan 2019 12:04

Tgt Ion: 85 Resp: 120018

Ion Ratio Lower Upper

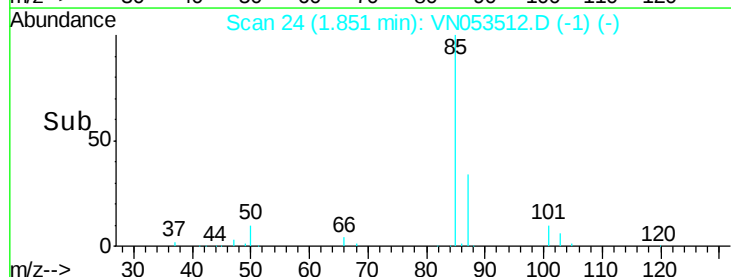
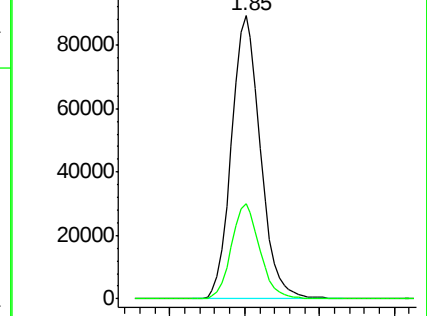
85 100

87 33.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 19.185 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 50 Resp: 159220

Ion Ratio Lower Upper

50 100

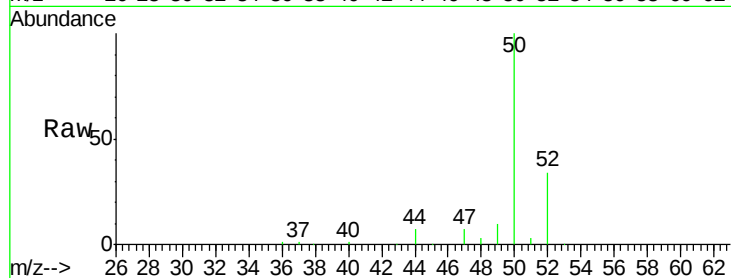
52 33.7 26.6 40.0

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

120000

100000

80000

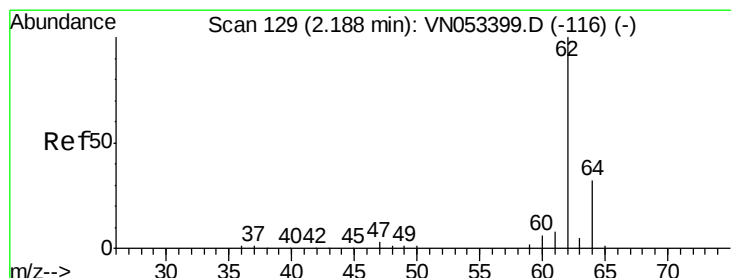
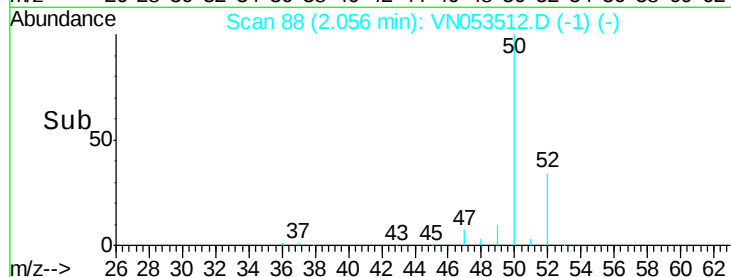
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 20.304 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053512.D

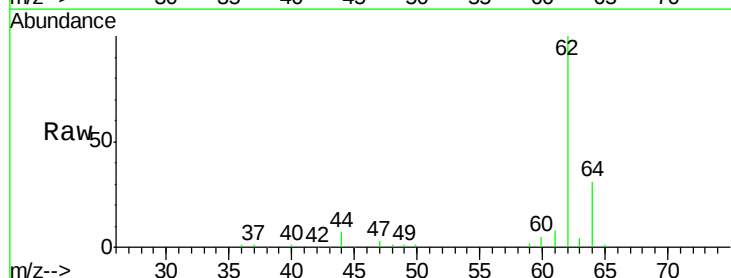
Acq: 22 Jan 2019 12:04

Tgt Ion: 62 Resp: 162429

Ion Ratio Lower Upper

62 100

64 31.0 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

120000

100000

80000

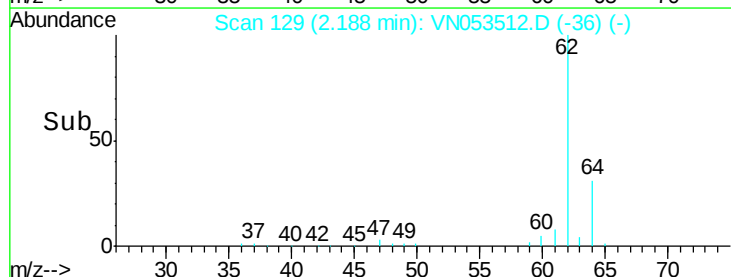
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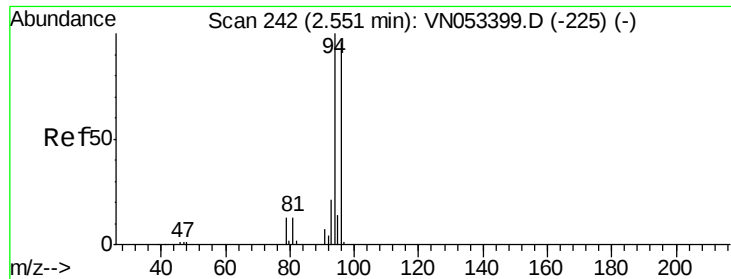
40000

20000

0

Time-->





#5

Bromomethane

Concen: 21.172 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.02 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 94 Resp: 116212

Ion Ratio Lower Upper

94 100

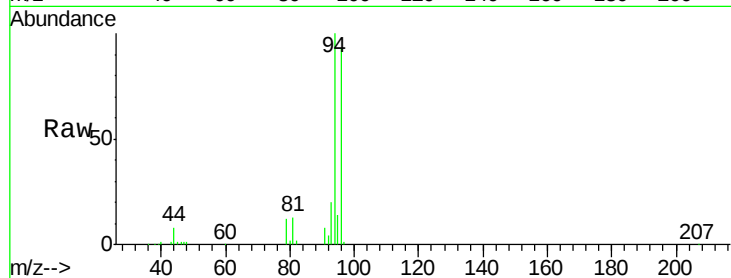
96 92.7 76.8 115.2

Manual Integrations

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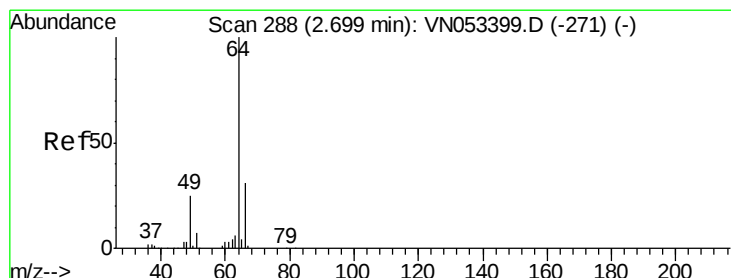
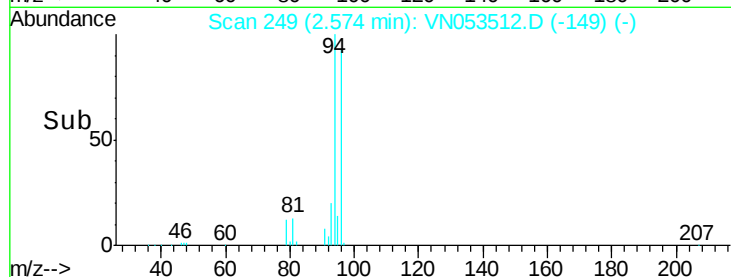
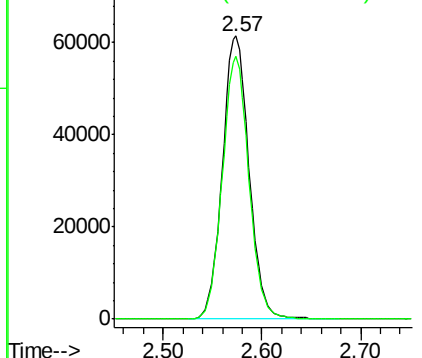
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 21.184 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.01 min

Lab File: VN053512.D

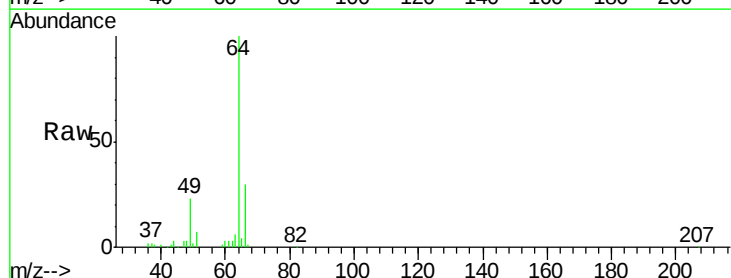
Acq: 22 Jan 2019 12:04

Tgt Ion: 64 Resp: 102462

Ion Ratio Lower Upper

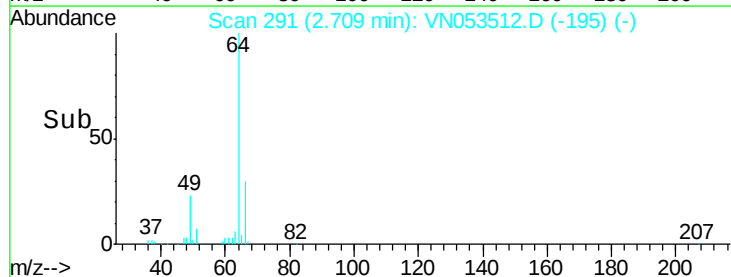
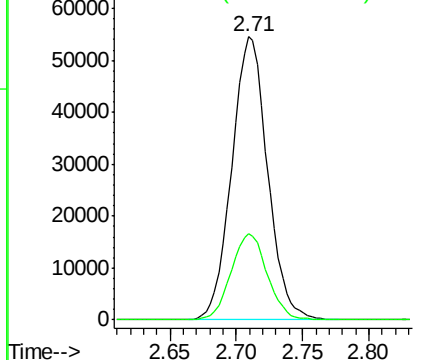
64 100

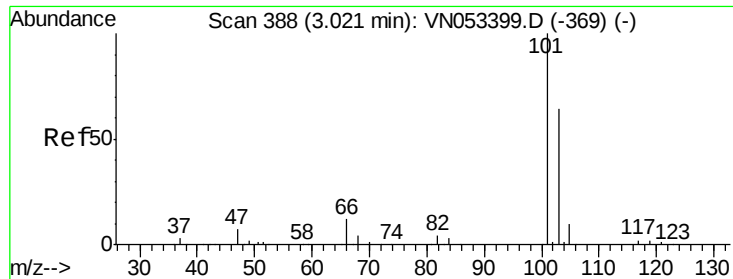
66 30.4 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

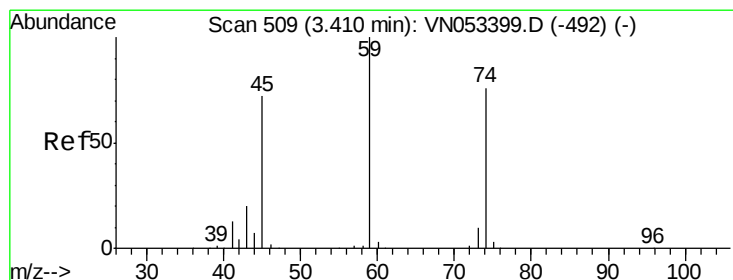
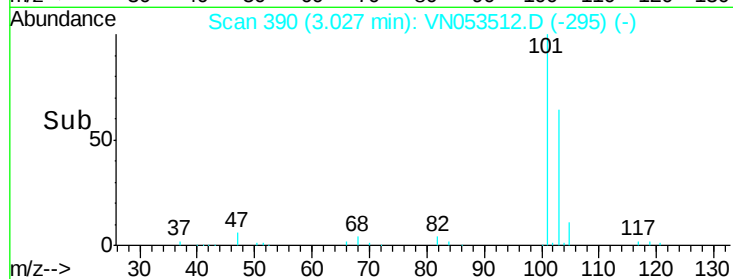
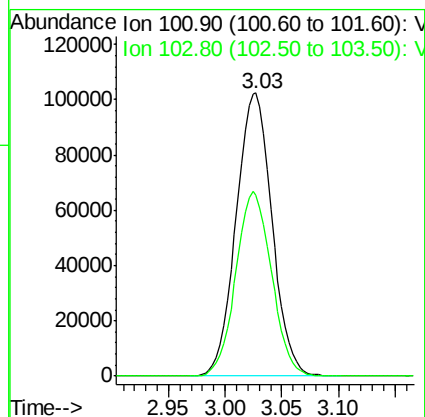
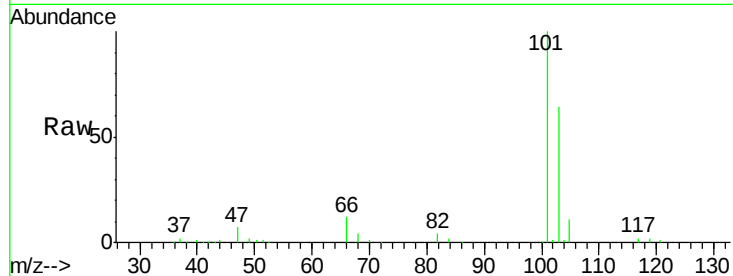
Trichlorofluoromethane
Concen: 21.632 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.01 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
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VN0122MBS01

Tot Ion:101 Resp: 226356
Ion Ratio Lower Upper
101 100
103 63.8 51.6 77.4

Manual Integrations
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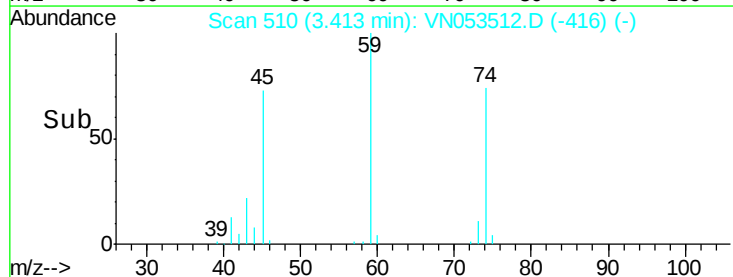
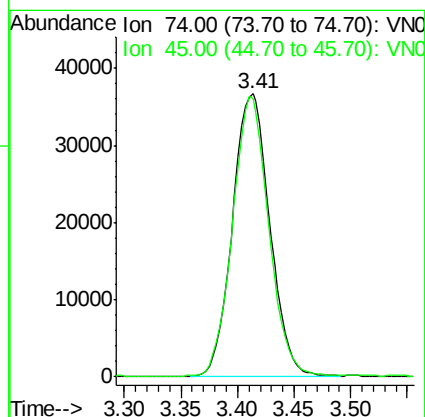
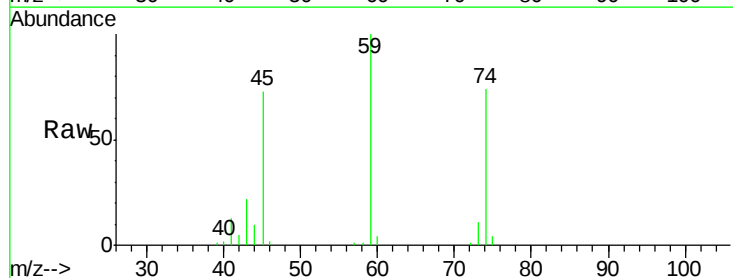
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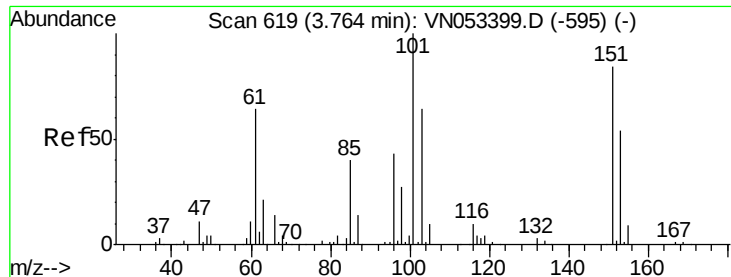


#8

Diethyl Ether
Concen: 21.530 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion: 74 Resp: 84613
Ion Ratio Lower Upper
74 100
45 96.3 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.839 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

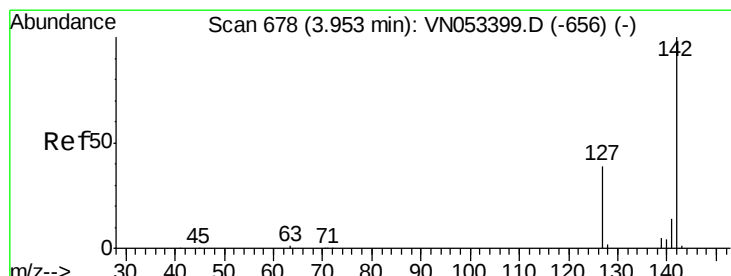
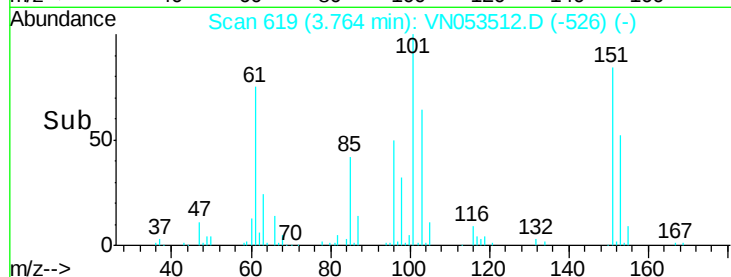
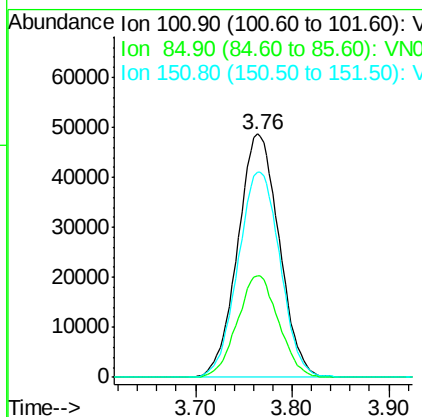
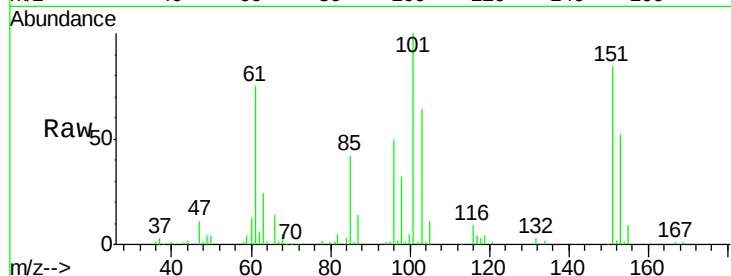
ClientSampleId :

VN0122MBS01

Tot Ion:	101	Resp:	144727
Ion Ratio	Lower	Upper	
101	100		
85	41.6	32.8	49.2
151	85.8	66.9	100.3

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#10

Methyl Iodide

Concen: 20.440 ug/l

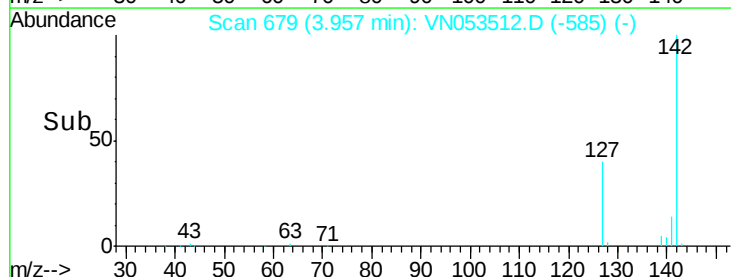
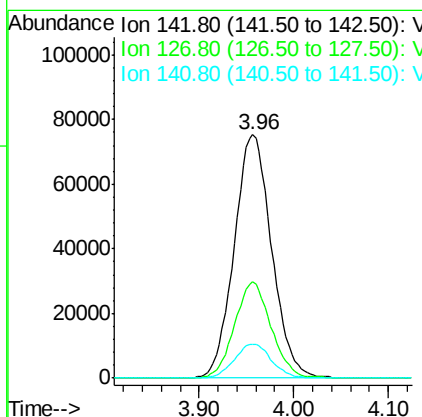
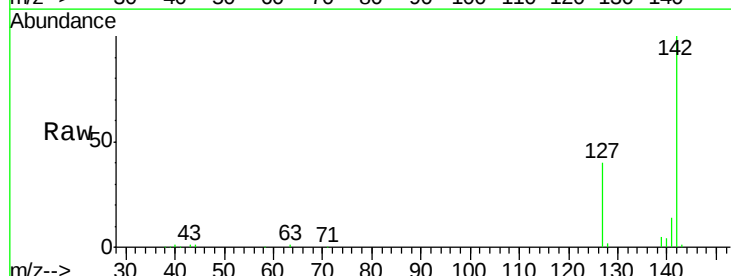
RT: 3.96 min Scan# 679

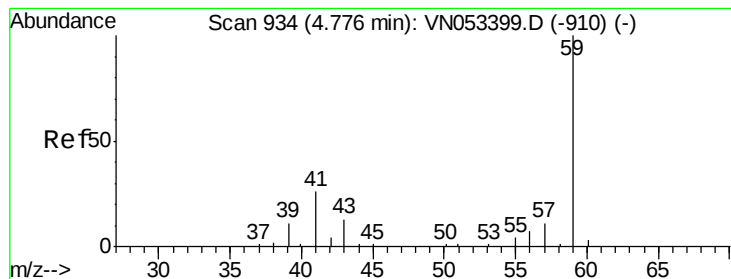
Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion:	142	Resp:	206996
Ion Ratio	Lower	Upper	
142	100		
127	38.7	31.0	46.4
141	13.8	11.1	16.7





#11

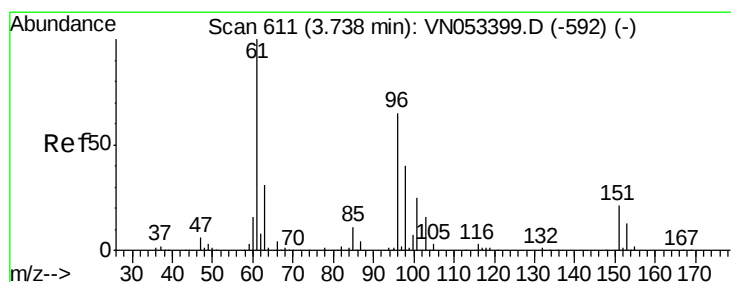
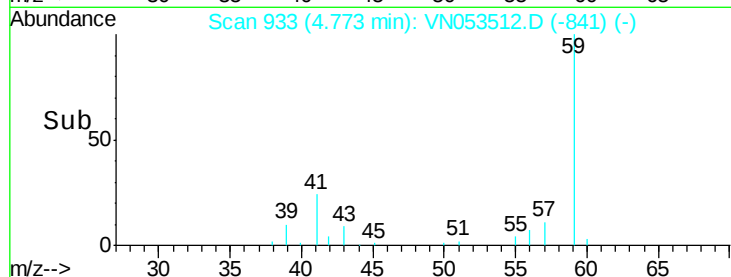
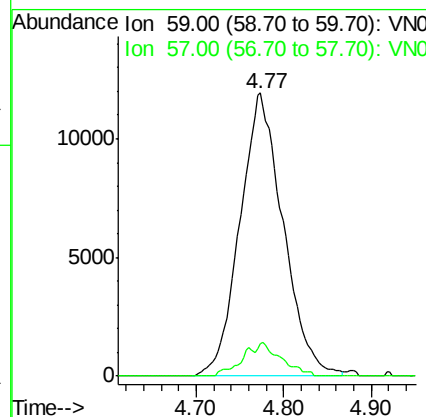
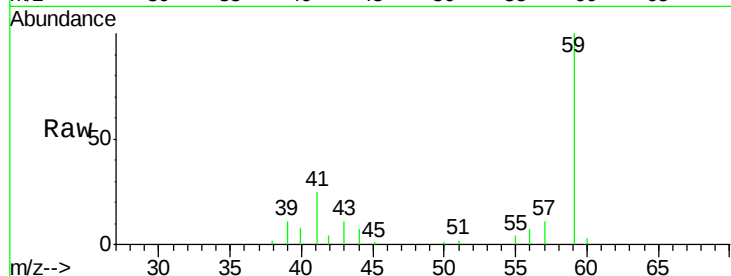
Tert butyl alcohol
 Concen: 116.997 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampled :
 VN0122MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.5	8.2	12.4#

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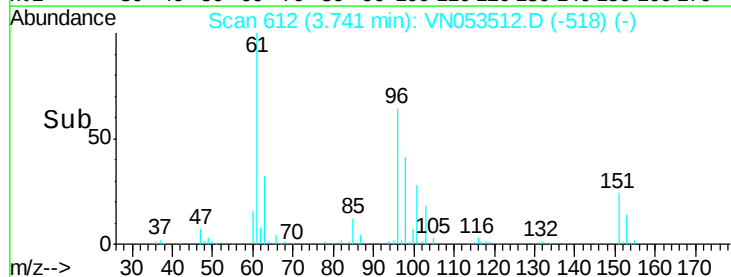
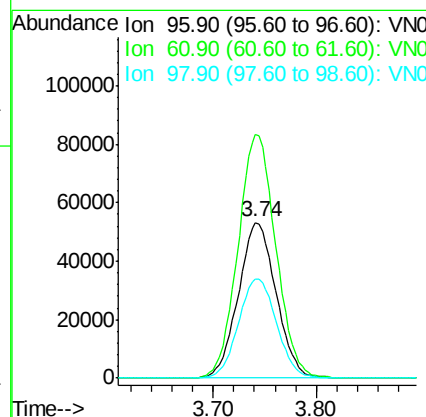
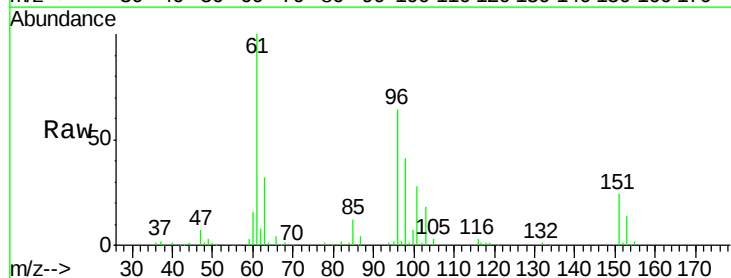
MMDadoda
 1/23/2019 11:00:39 AM

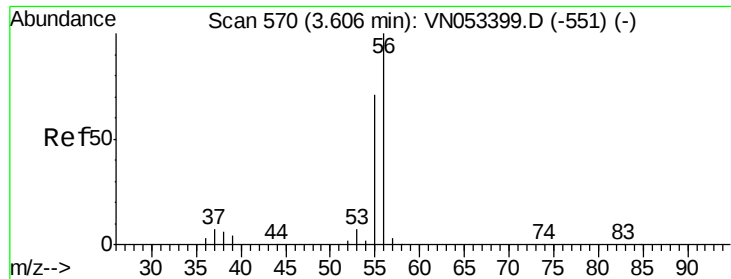


#12

1,1-Dichloroethene
 Concen: 21.070 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.7	122.9	184.3
98	63.9	49.4	74.0





#13

Acrolein

Concen: 105.305 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 56 Resp: 61885

Ion Ratio Lower Upper

56 100

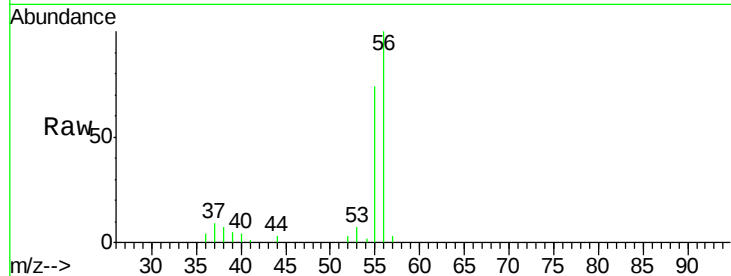
55 72.7 57.4 86.0

Manual Integrations

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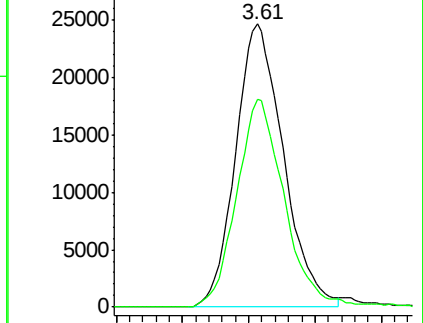
MMDadoda

1/23/2019 11:00:39 AM

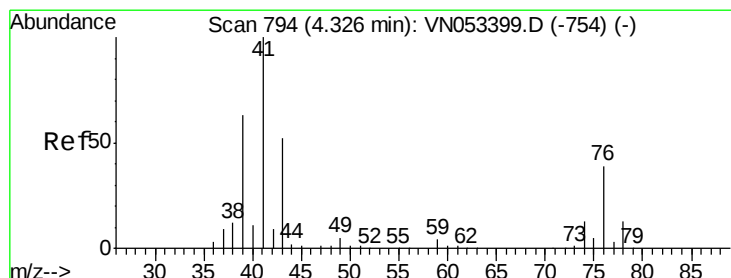
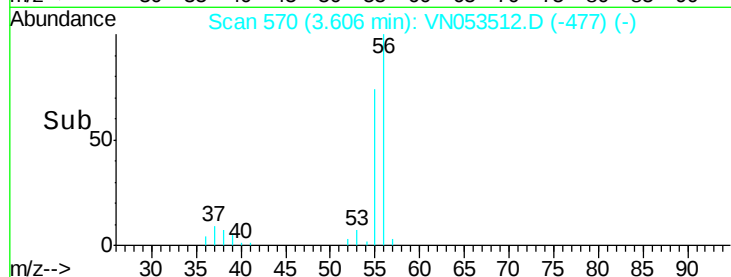


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time--> 3.50 3.55 3.60 3.65 3.70



#14

Allyl chloride

Concen: 21.909 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

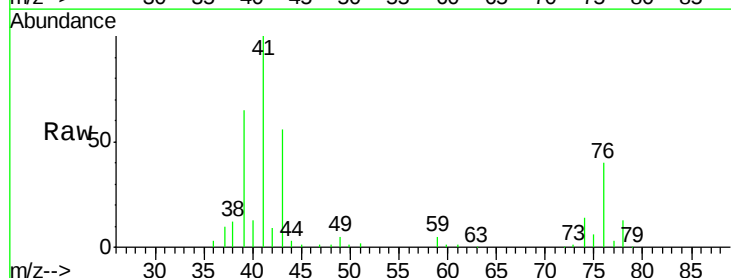
Tgt Ion: 41 Resp: 228747

Ion Ratio Lower Upper

41 100

39 61.0 48.9 73.3

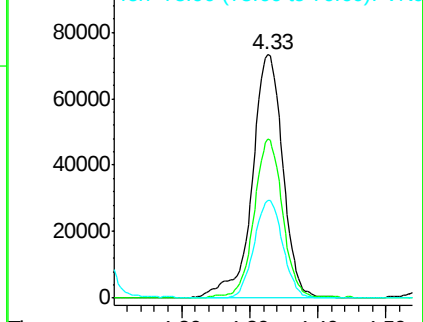
76 36.9 29.4 44.2



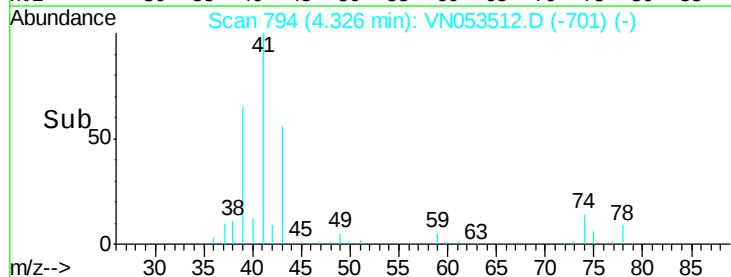
Abundance Ion 41.00 (40.70 to 41.70): VN0

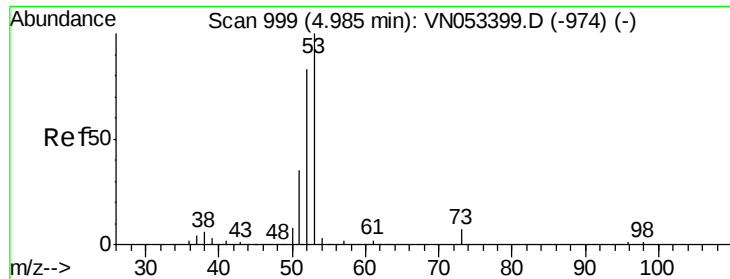
Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



Time--> 4.20 4.30 4.40 4.50





#15

Acrylonitrile

Concen: 106.325 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

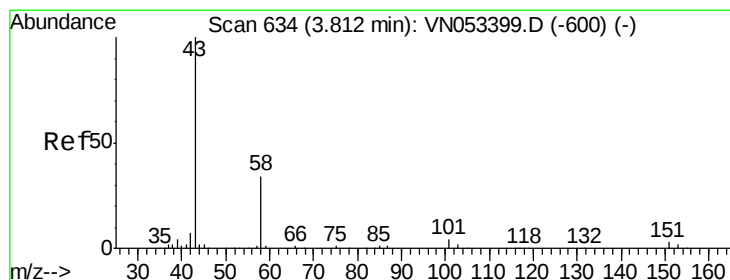
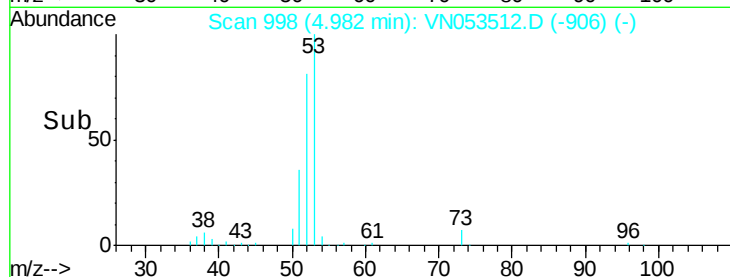
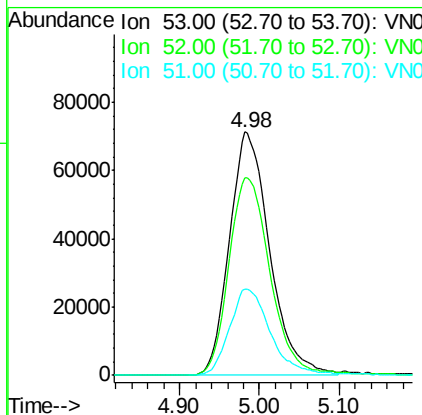
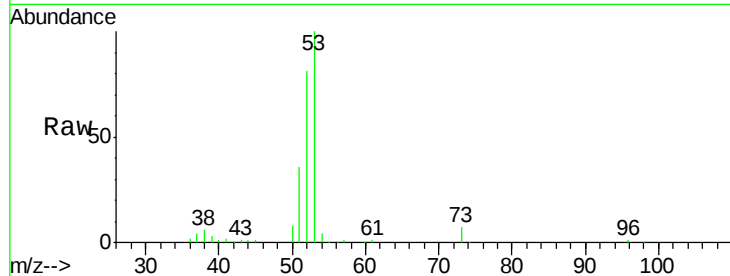
ClientSampleId :

VN0122MBS01

Tot Ion:	53	Resp:	244327
Ion Ratio	Lower	Upper	
53	100		
52	83.2	66.0	99.0
51	35.6	28.3	42.5

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#16

Acetone

Concen: 103.900 ug/l

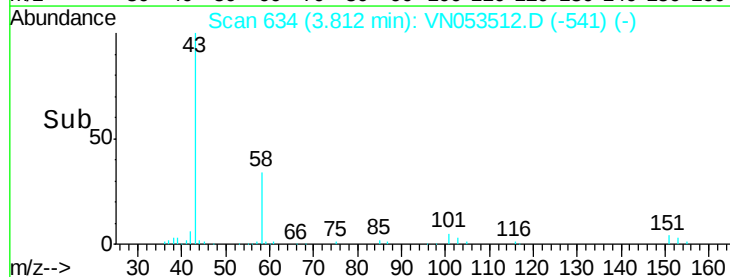
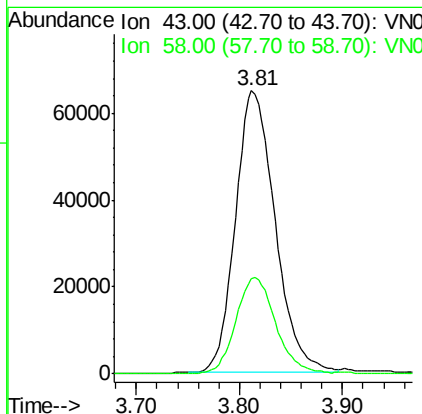
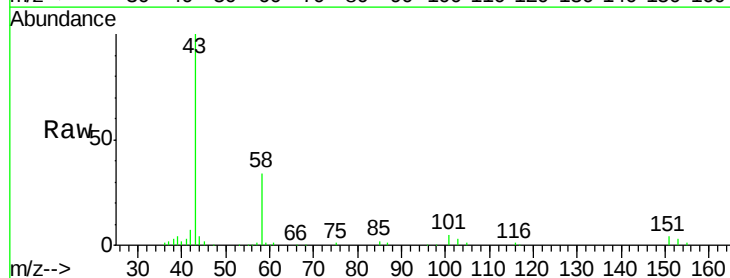
RT: 3.81 min Scan# 634

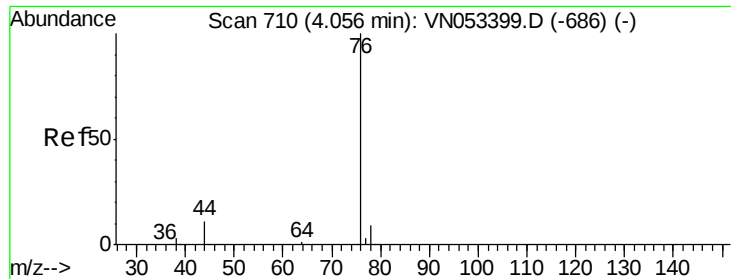
Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion:	43	Resp:	173948
Ion Ratio	Lower	Upper	
43	100		
58	33.7	27.1	40.7





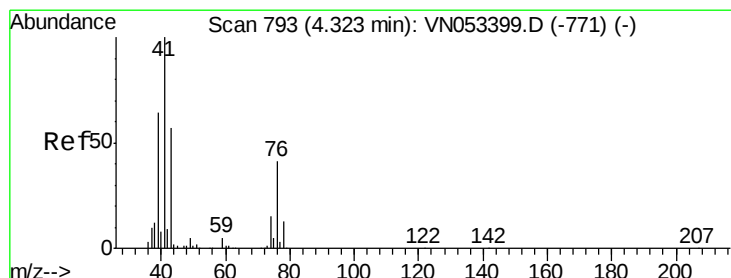
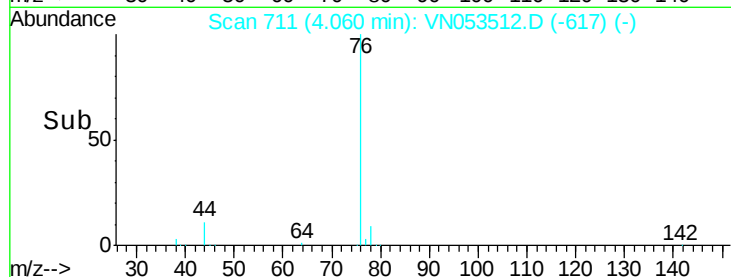
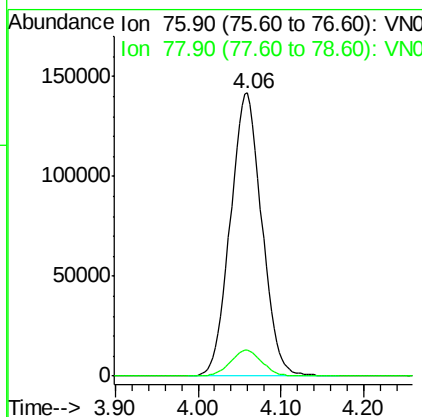
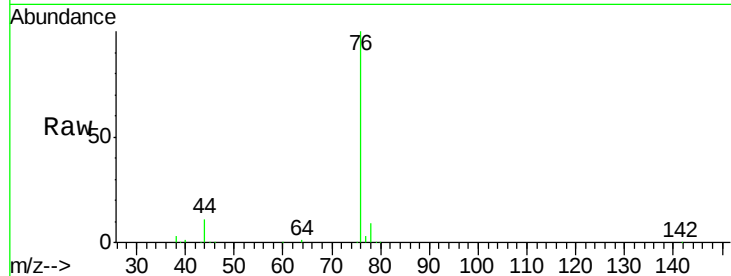
#17
Carbon Disulfide
Concen: 19.304 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

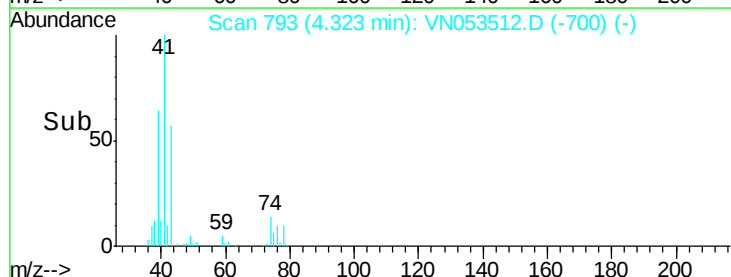
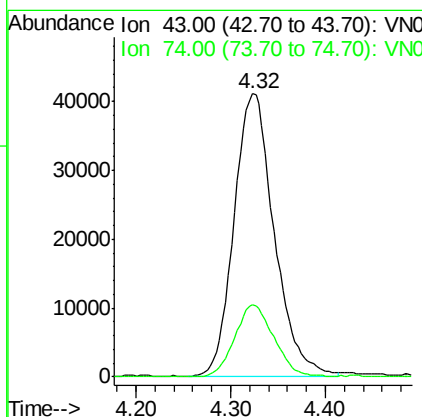
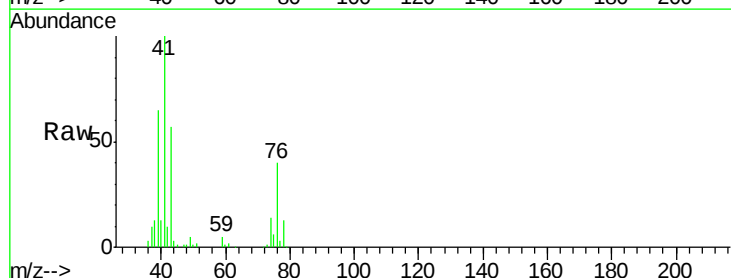
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1/23/2019 11:00:39 AM



#18
Methyl Acetate
Concen: 21.610 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.4	29.2





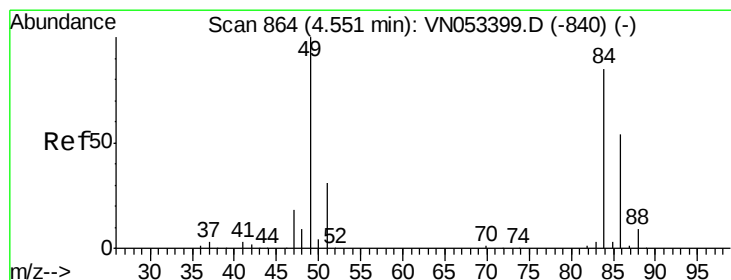
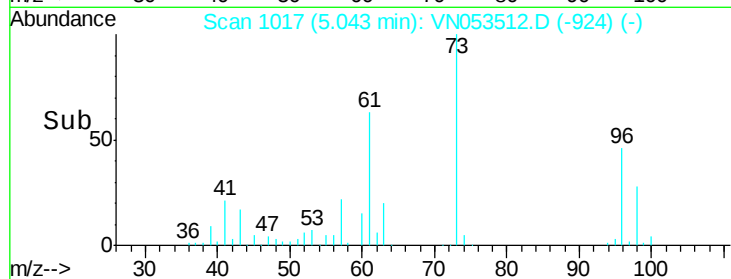
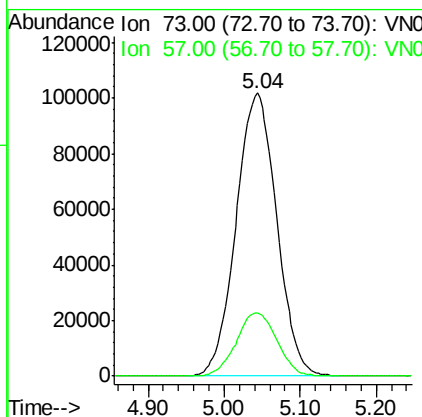
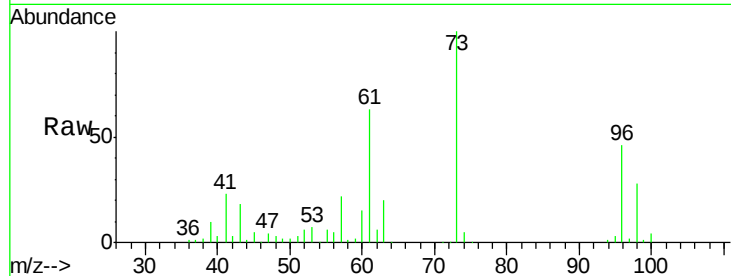
#19
Methvl tert-butvl Ether
Concen: 22.109 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion: 73 Resp: 377587
Ion Ratio Lower Upper
73 100
57 22.1 18.3 27.5

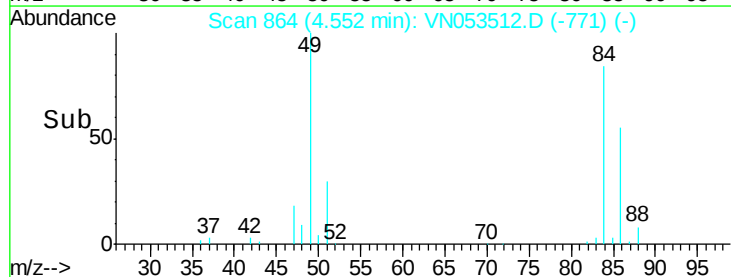
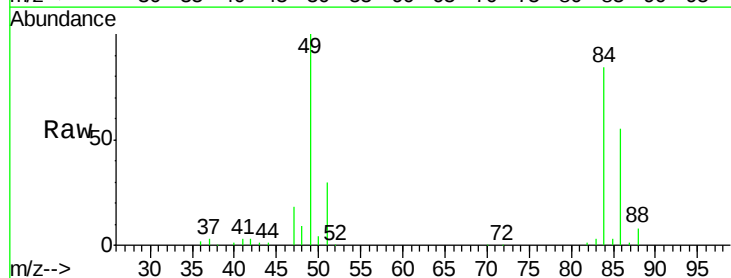
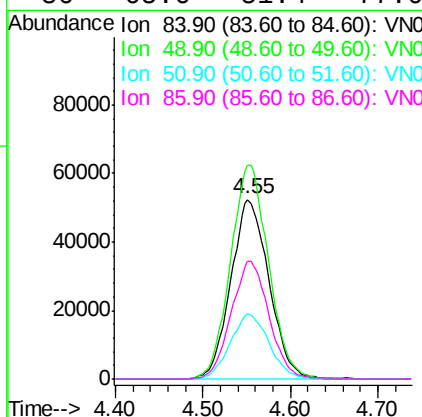
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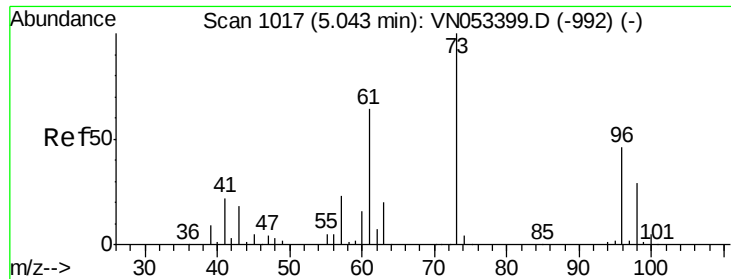
MMDadoda
1/23/2019 11:00:39 AM



#20
Methylene Chloride
Concen: 20.746 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion: 84 Resp: 158577
Ion Ratio Lower Upper
84 100
49 118.9 94.3 141.5
51 36.2 29.4 44.2
86 65.6 51.4 77.0





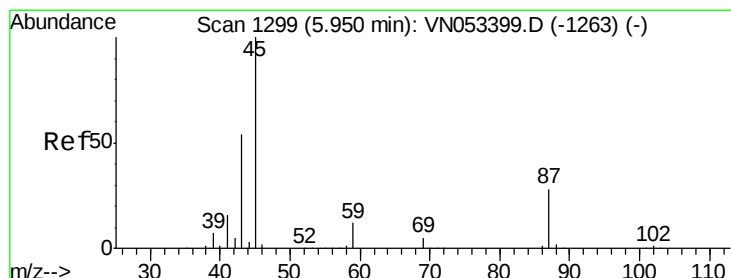
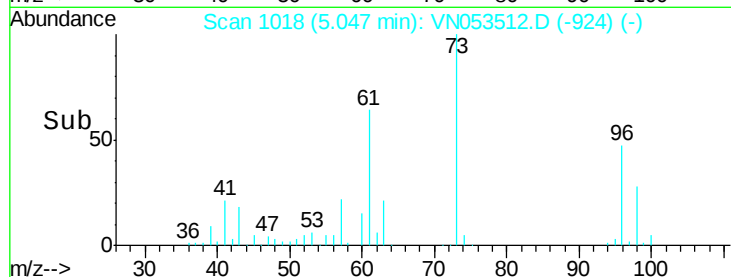
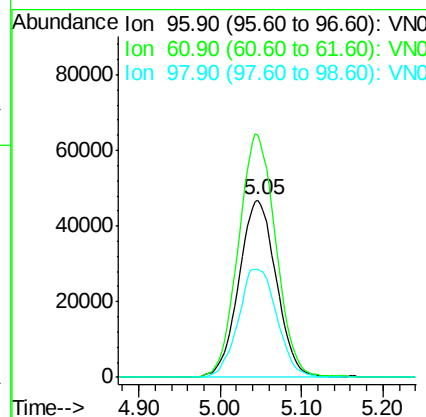
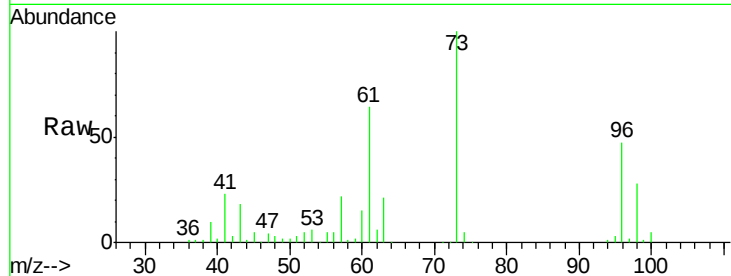
#21
trans-1,2-Dichloroethene
Concen: 21.619 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.5	110.1	165.1
98	60.6	50.0	75.0

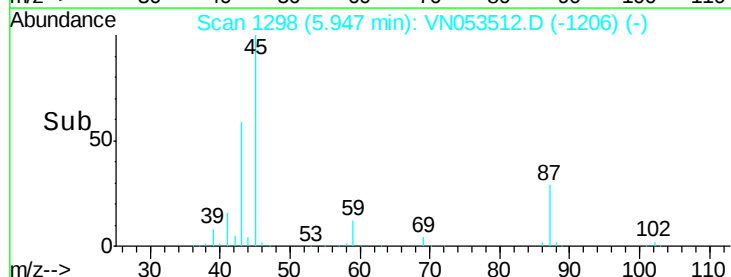
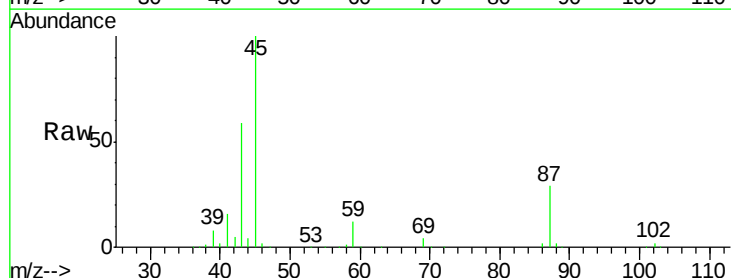
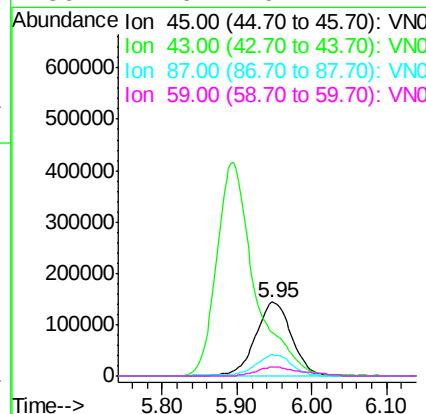
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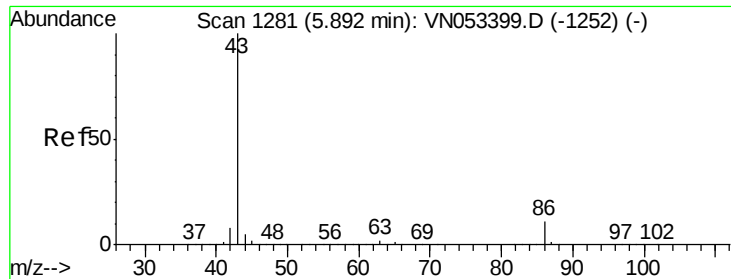
MMDadoda
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#22
Diisopropyl ether
Concen: 22.171 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.2	44.2	66.4
87	28.5	22.7	34.1
59	11.6	9.4	14.2





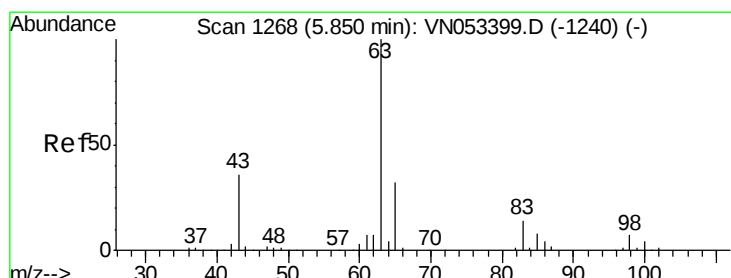
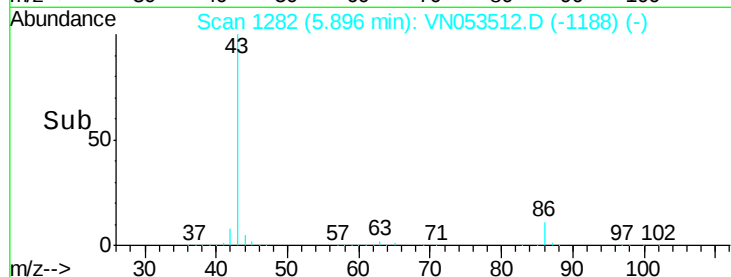
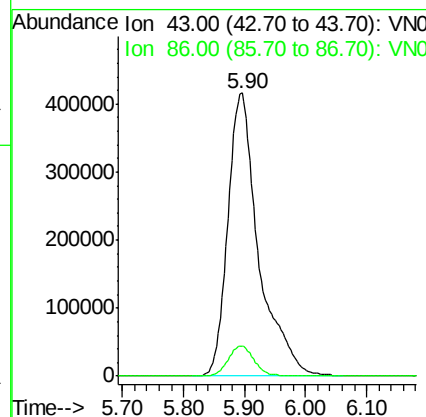
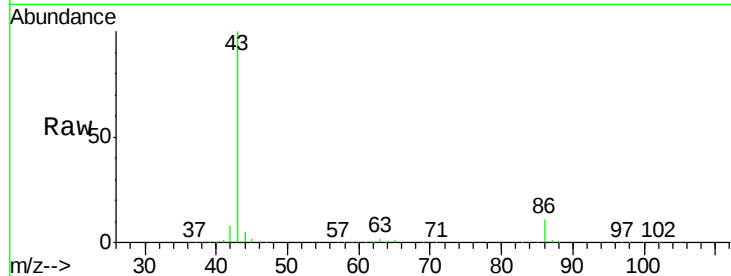
#23
 Vinyl Acetate
 Concen: 108.988 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion: 43 Resp: 1460239
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.4 12.6

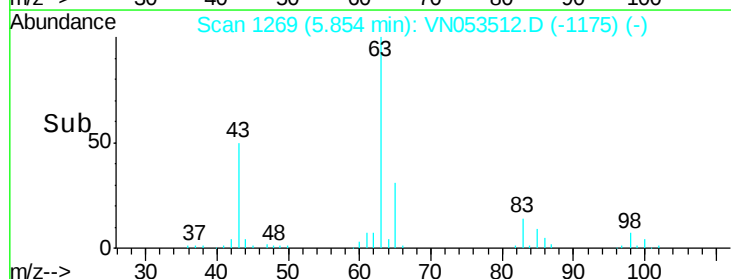
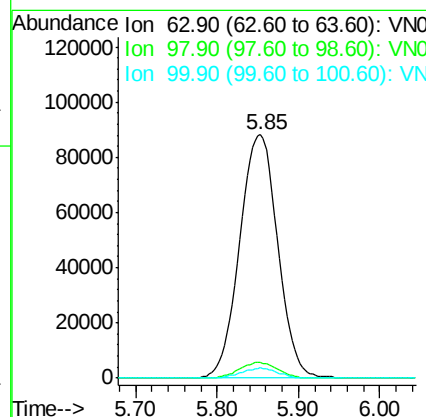
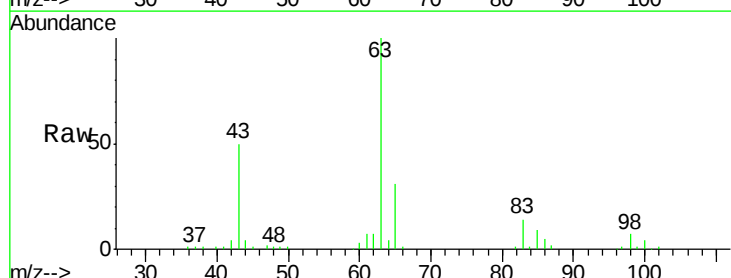
Manual Integrations
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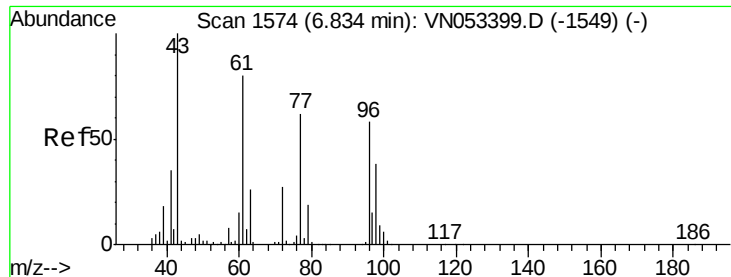
MMDadoda
 1/23/2019 11:00:39 AM



#24
 1,1-Dichloroethane
 Concen: 22.092 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion: 63 Resp: 284648
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.3 9.9
 100 4.2 2.1 6.5





#25

2-Butanone

Concen: 106.085 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampled :

VN0122MBS01

Tot Ion: 43 Resp: 273693

Ion Ratio Lower Upper

43 100

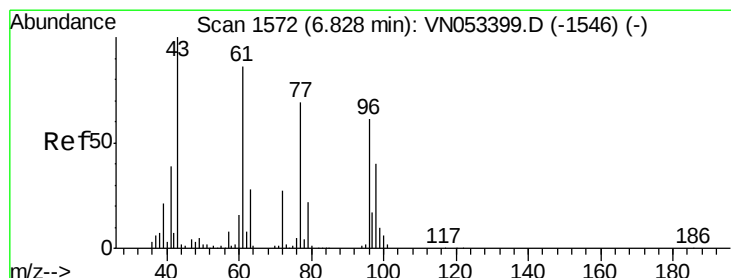
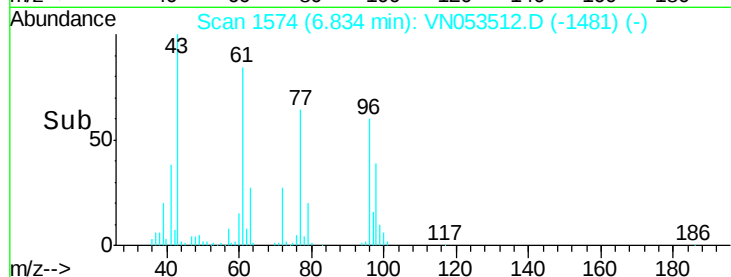
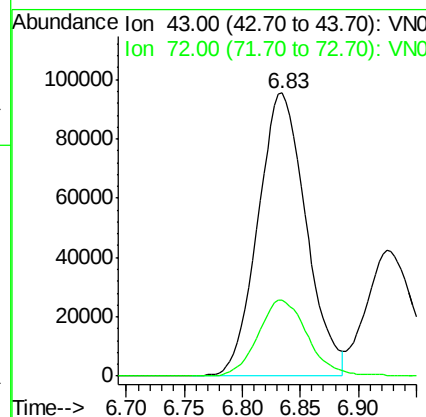
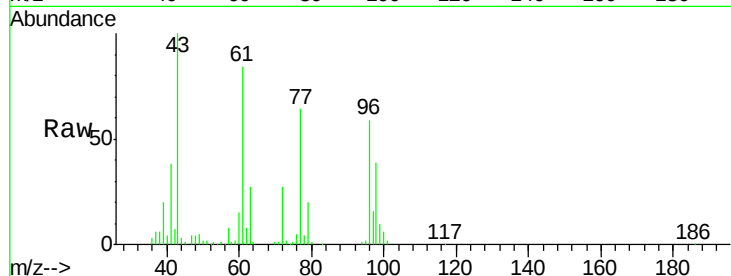
72 27.0 22.0 33.0

Manual Integrations

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MMDadoda

1/23/2019 11:00:39 AM



#26

2,2-Dichloropropane

Concen: 21.710 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053512.D

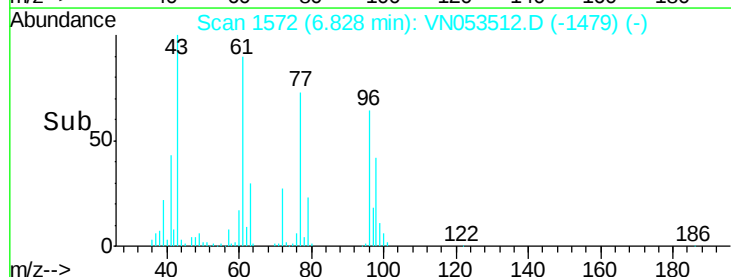
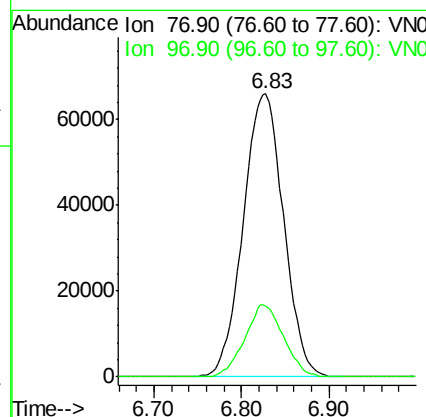
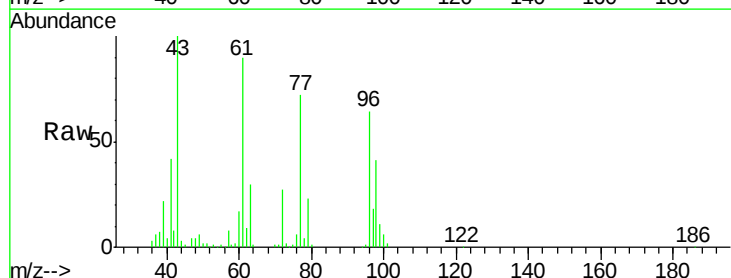
Acq: 22 Jan 2019 12:04

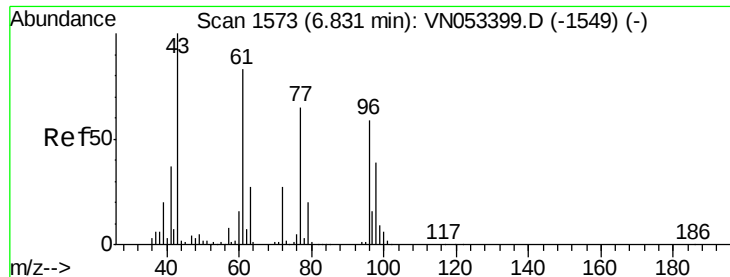
Tgt Ion: 77 Resp: 211200

Ion Ratio Lower Upper

77 100

97 24.6 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 21.946 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

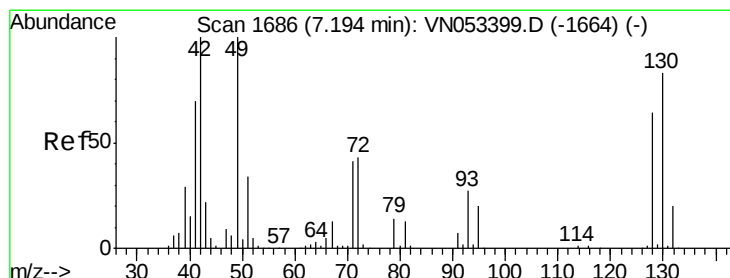
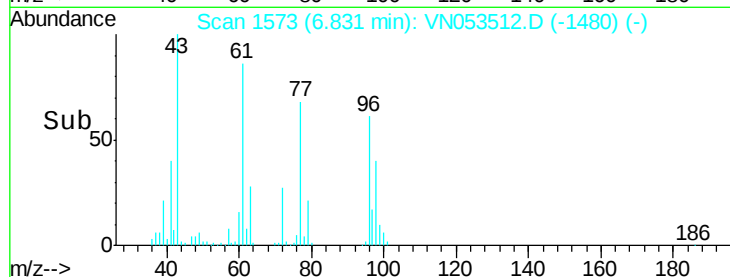
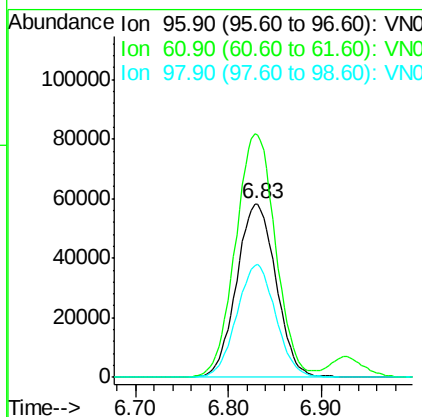
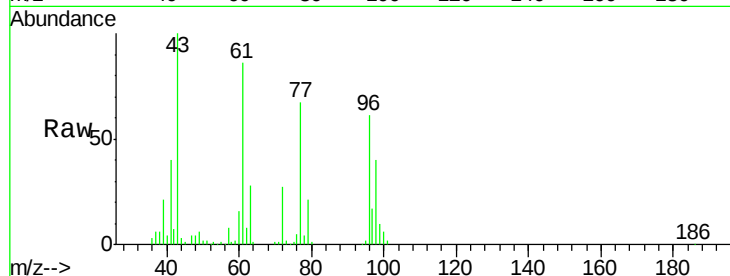
ClientSampled :

VN0122MBS01

Tot Ion:	96	Resp:	172456
Ion	Ratio	Lower	Upper
96	100		
61	142.1	0.0	283.8
98	64.0	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 19.116 ug/l

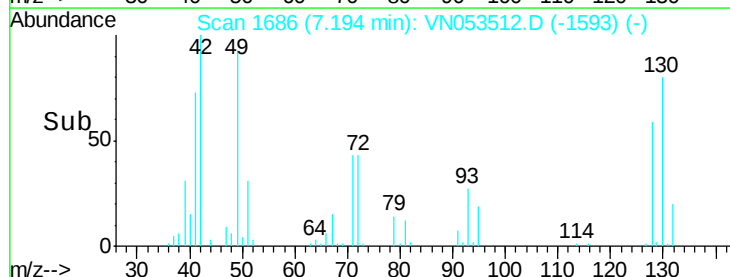
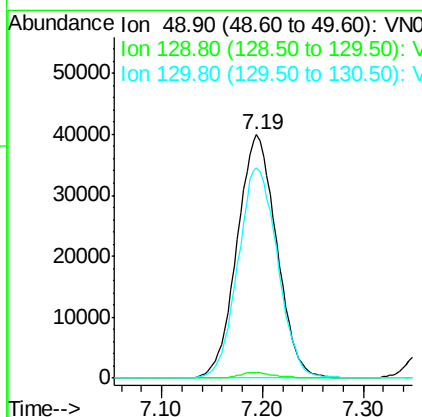
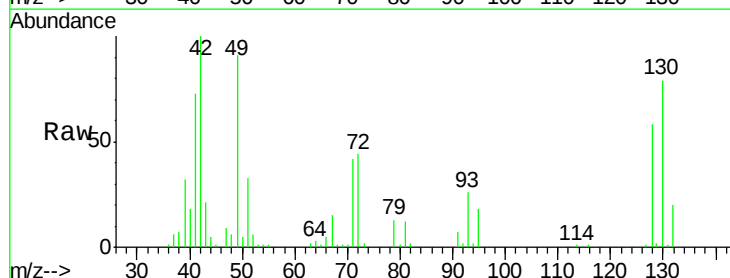
RT: 7.19 min Scan# 1686

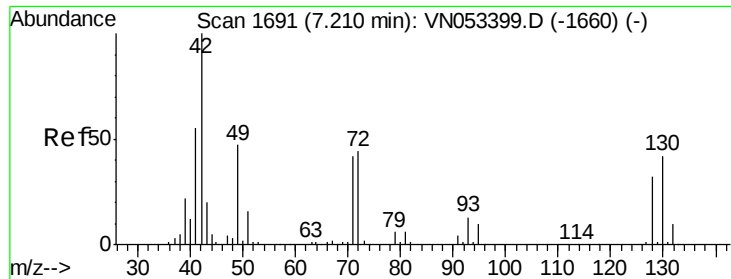
Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion:	49	Resp:	108510
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	86.7	66.3	99.5





#29

Tetrahydrofuran

Concen: 106.946 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 42 Resp: 179622

Ion Ratio Lower Upper

42 100

72 43.4 35.2 52.8

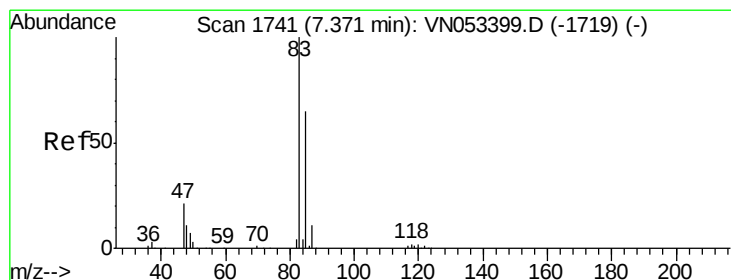
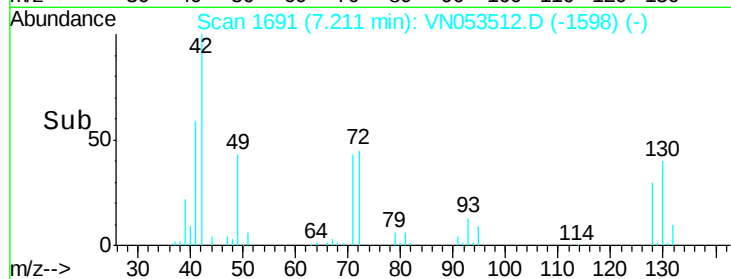
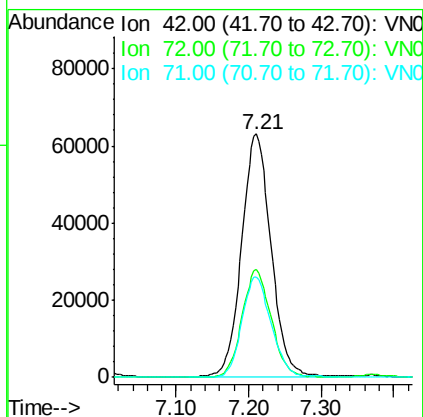
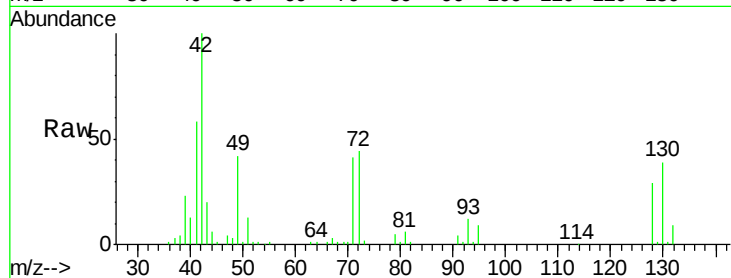
71 40.7 33.0 49.4

Manual Integrations

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1/23/2019 11:00:39 AM



#30

Chloroform

Concen: 22.147 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN053512.D

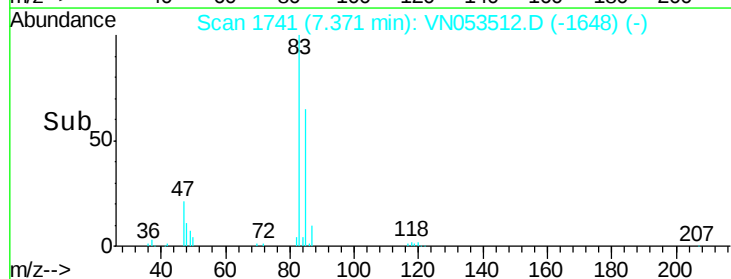
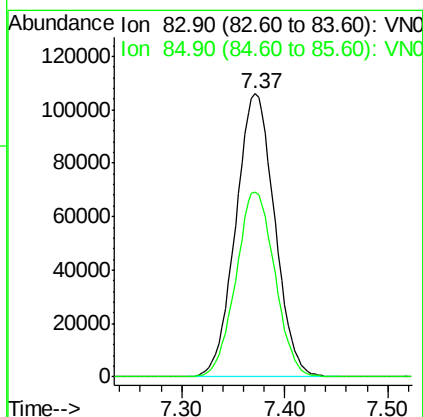
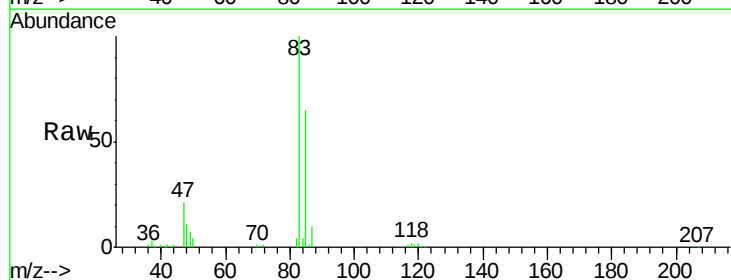
Acq: 22 Jan 2019 12:04

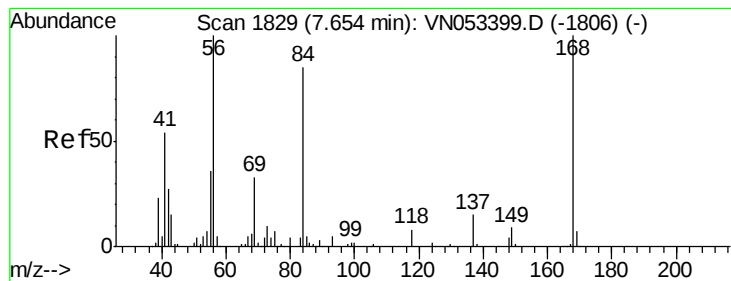
Tgt Ion: 83 Resp: 278024

Ion Ratio Lower Upper

83 100

85 65.3 52.2 78.2





#31

Cyclohexane

Concen: 20.925 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

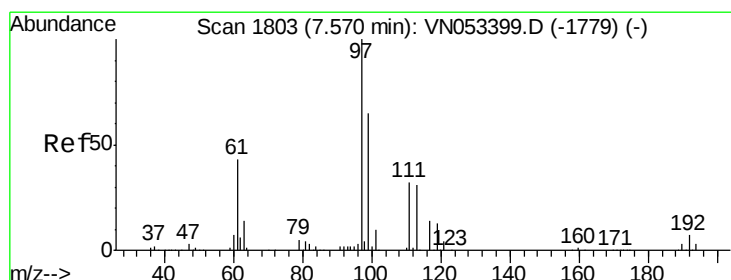
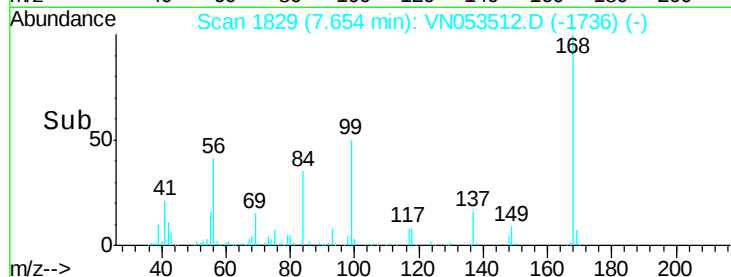
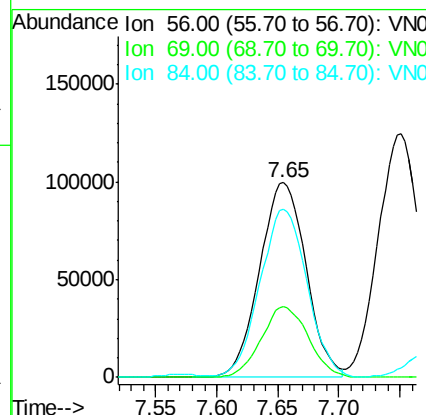
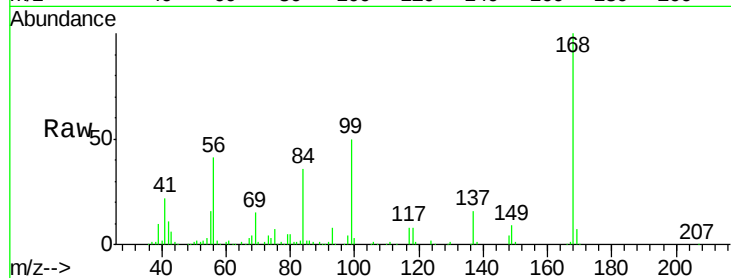
ClientSampled :

VN0122MBS01

Tot Ion:	56	Resp:	264015
Ion Ratio	Lower	Upper	
56	100		
69	36.2	26.4	39.6
84	85.2	67.9	101.9

Manual Integrations
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1/23/2019 11:00:39 AM



#32

1,1,1-Trichloroethane

Concen: 21.940 ug/l

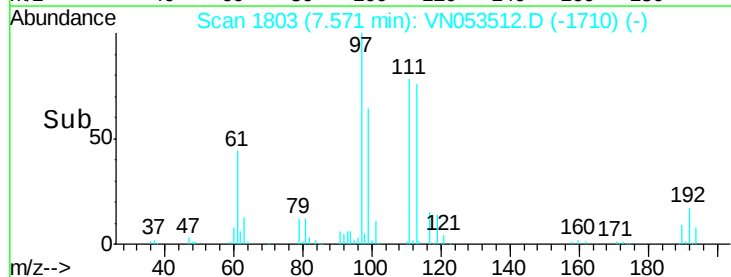
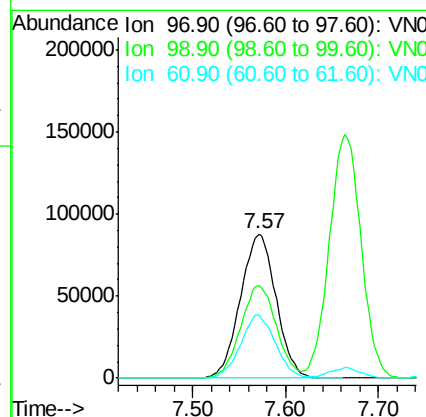
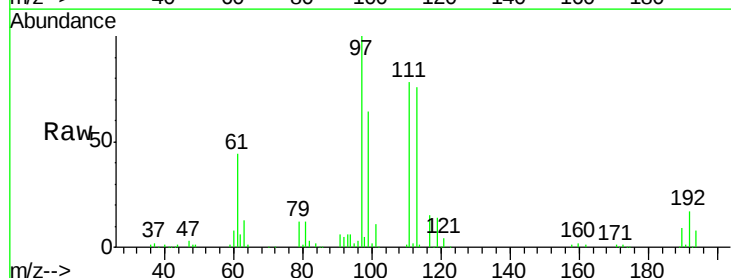
RT: 7.57 min Scan# 1803

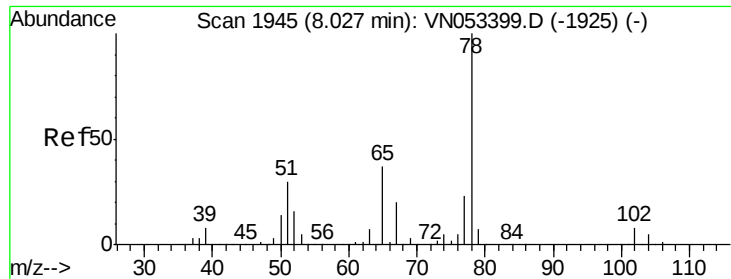
Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion:	97	Resp:	233645
Ion Ratio	Lower	Upper	
97	100		
99	65.1	52.0	78.0
61	42.6	34.4	51.6





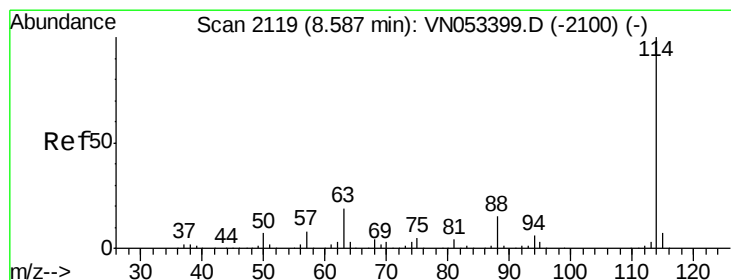
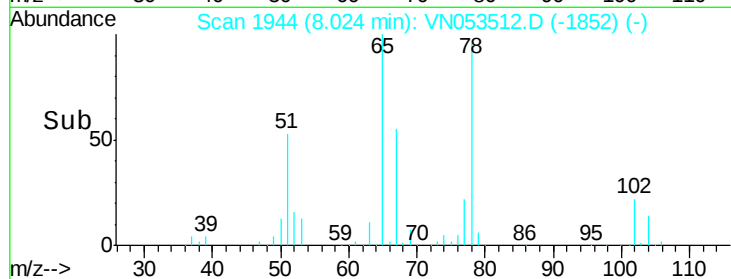
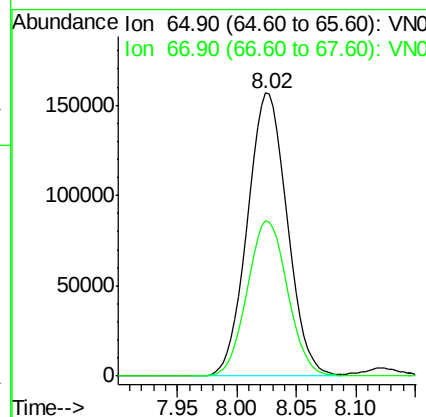
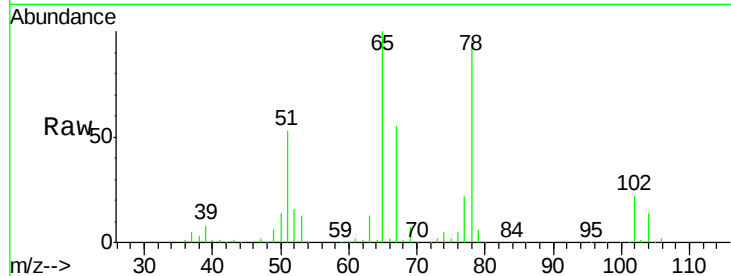
#33
 1,2-Dichloroethane-d4
 Concen: 21.940 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.6	0.0	111.2	

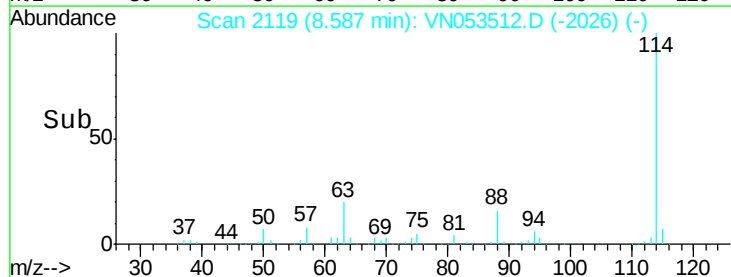
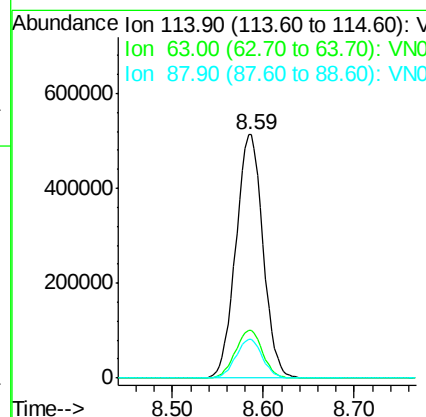
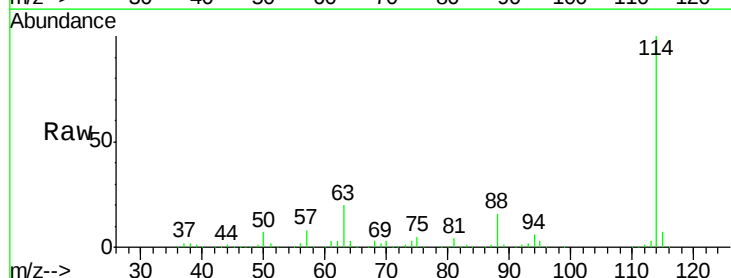
Manual Integrations
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 1/23/2019 11:00:39 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.8	0.0	38.6	
88	15.8	0.0	30.4	





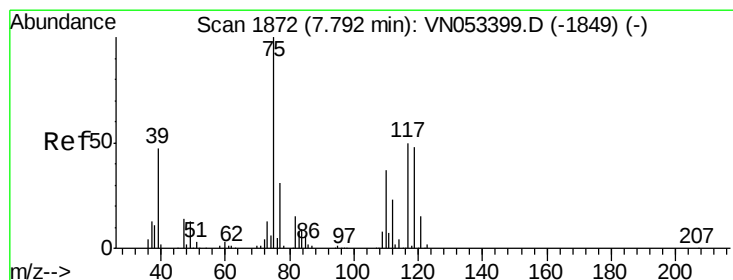
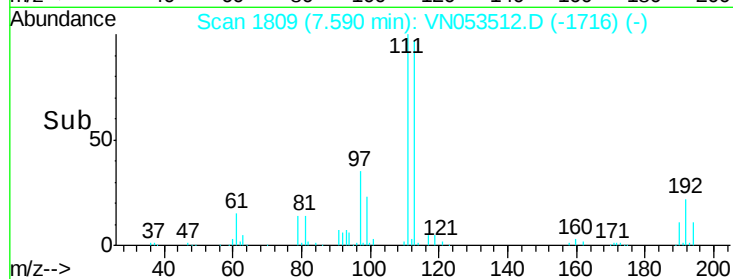
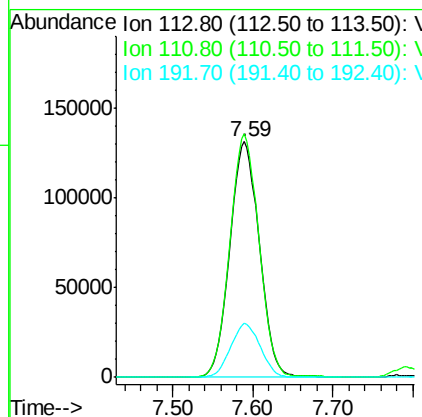
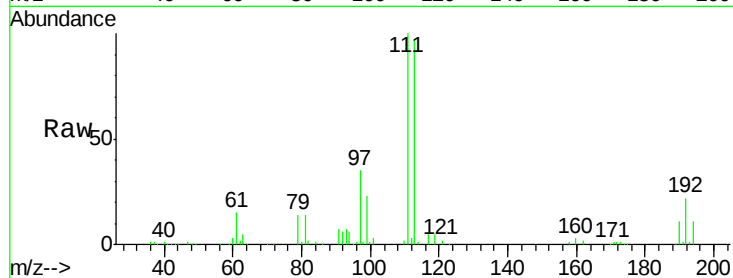
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	330031		
111	102.3	81.1	121.7	
192	22.7	18.2	27.2	

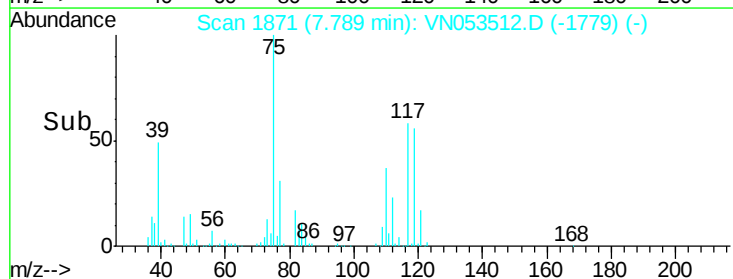
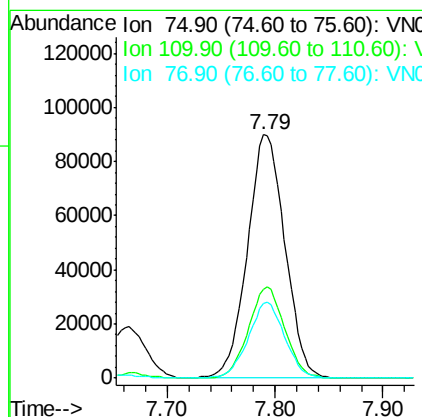
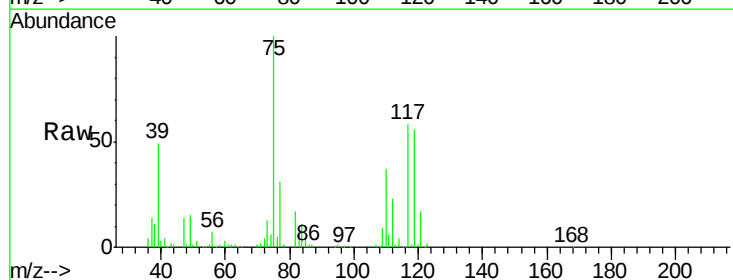
Manual Integrations
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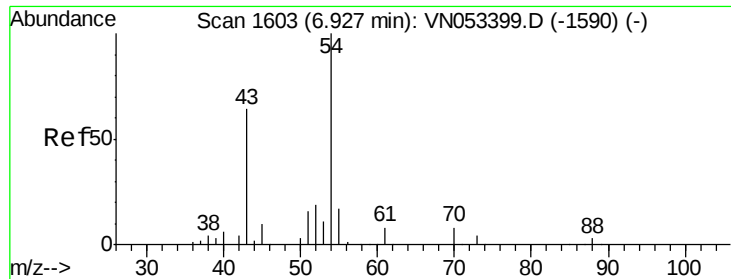
MMDadoda
 1/23/2019 11:00:39 AM



#36
 1,1-Dichloropropene
 Concen: 22.264 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	215325		
110	36.3	18.1	54.3	
77	30.6	25.1	37.7	





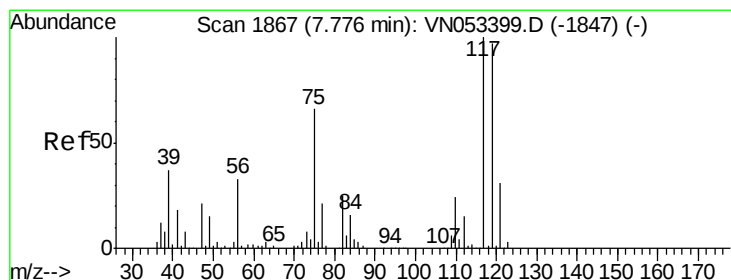
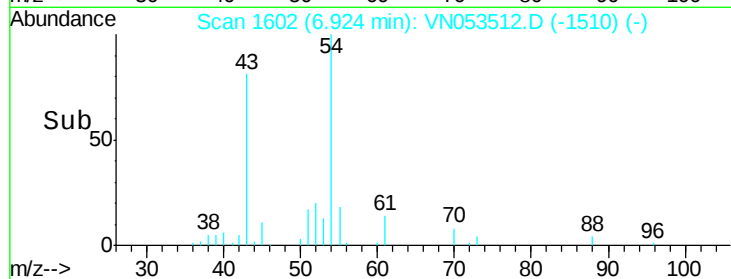
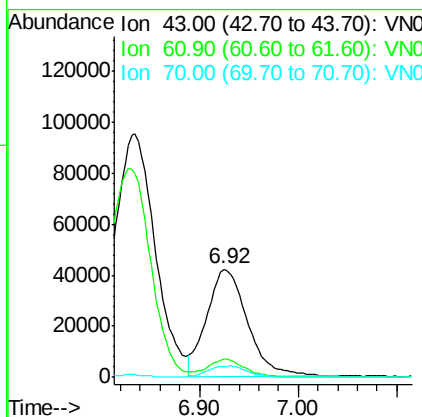
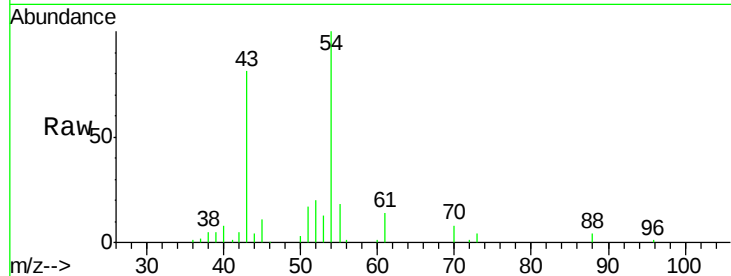
#37
Ethyl Acetate
Concen: 21.651 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.8	17.6
70	10.5	8.6	12.8

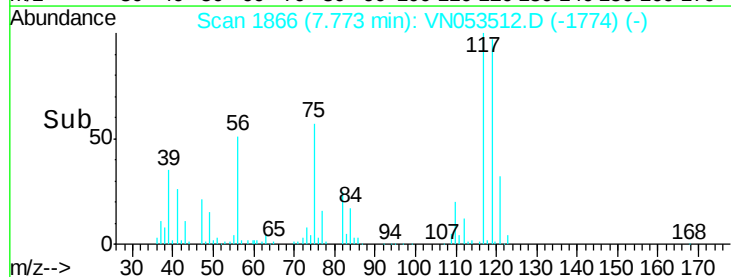
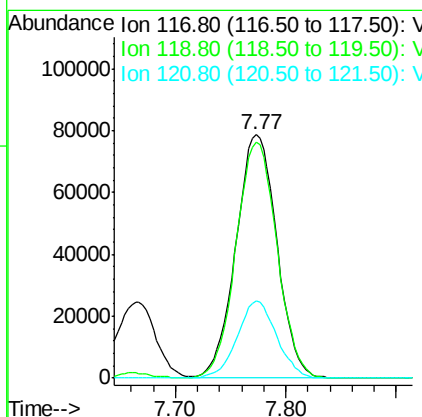
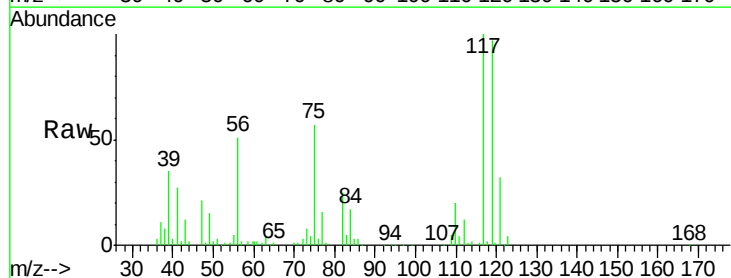
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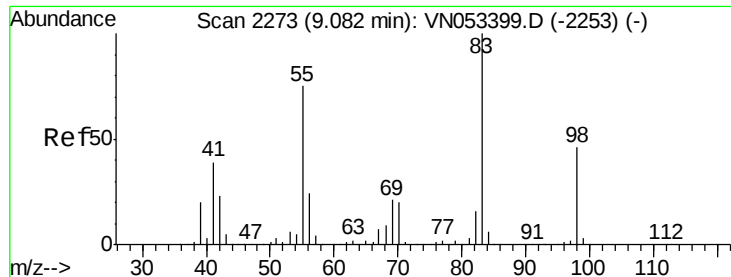
MMDadoda
1/23/2019 11:00:39 AM



#38
Carbon Tetrachloride
Concen: 22.178 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.2	115.8
121	31.6	24.6	37.0





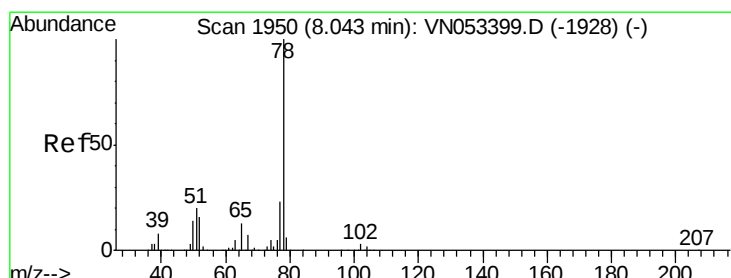
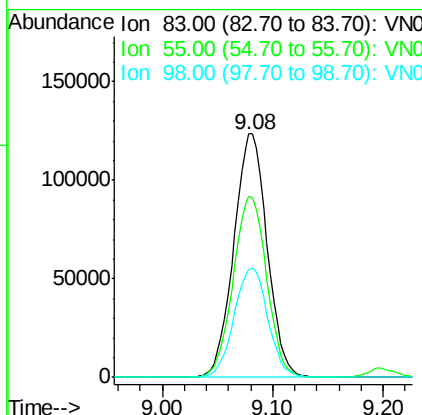
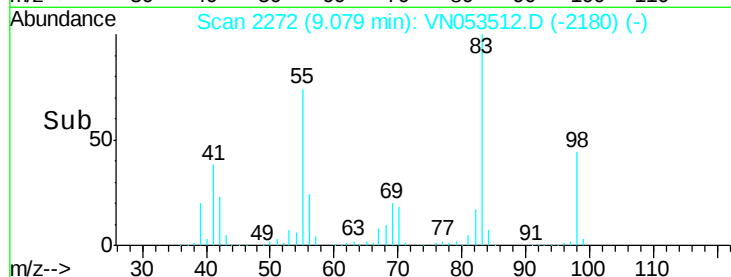
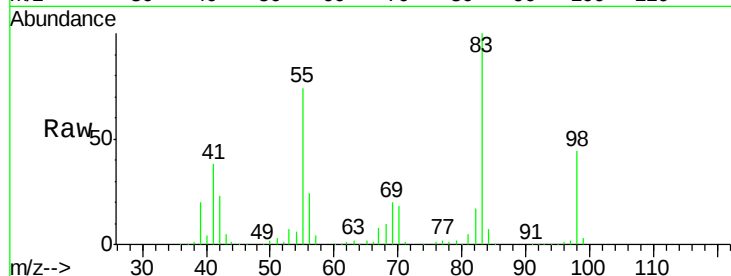
#39
Methvlcvclohexane
Concen: 21.639 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	74.4	60.1	90.1	
98	44.3	36.6	55.0	

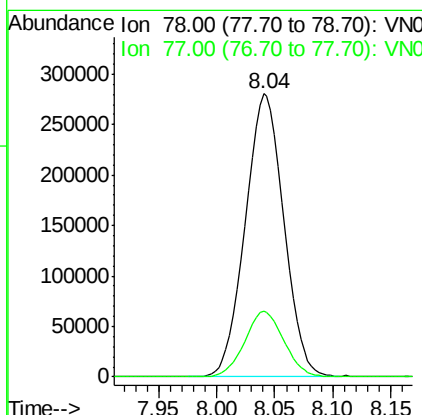
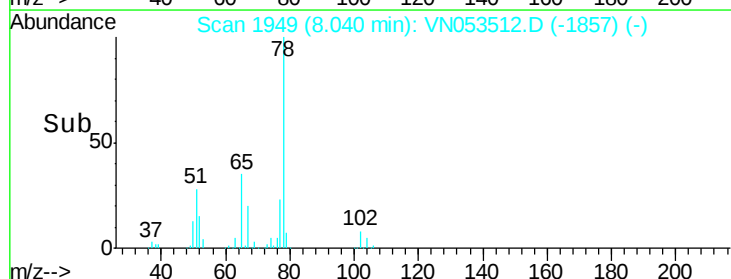
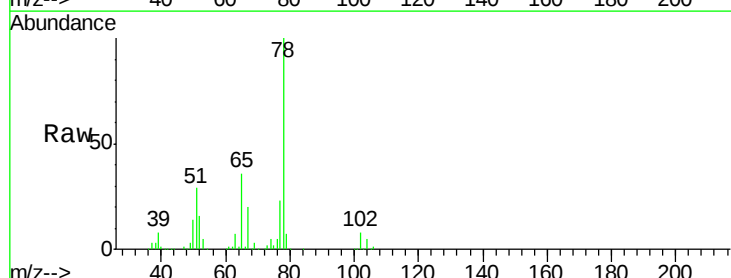
Manual Integrations
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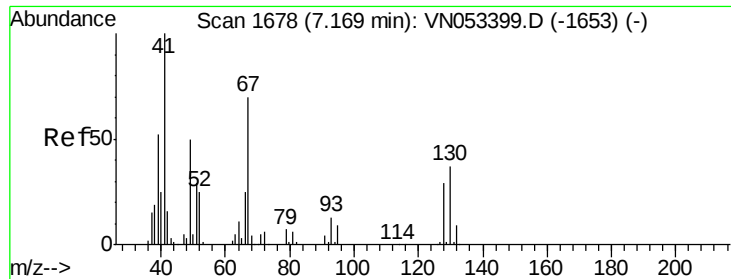
MMDadoda
1/23/2019 11:00:39 AM



#40
Benzene
Concen: 22.096 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.3	18.8	28.2	





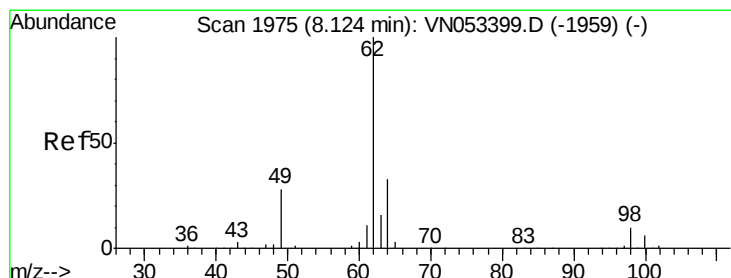
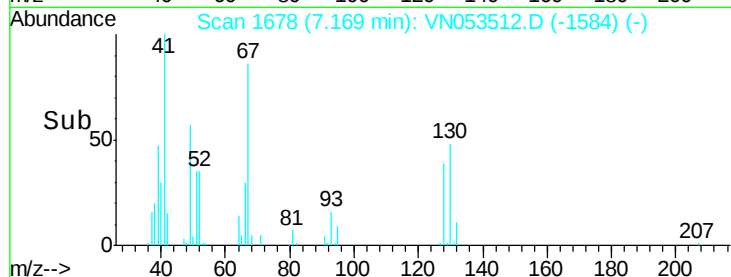
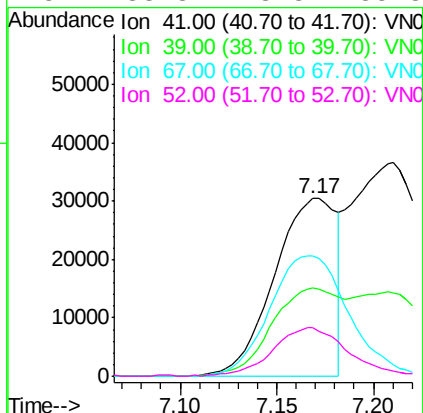
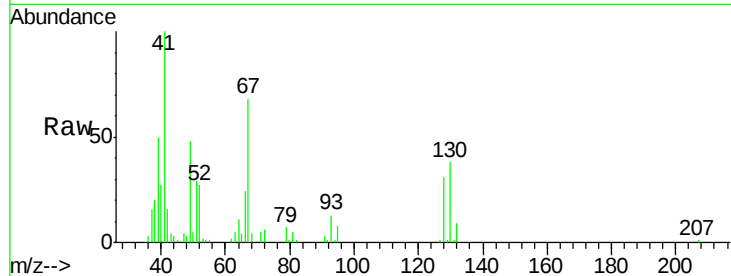
#41
Methacrylonitrile
Concen: 20.904 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		67814		
39	54.7	46.8	70.2		
67	86.8	63.0	94.6		
52	33.3	23.8	35.8		

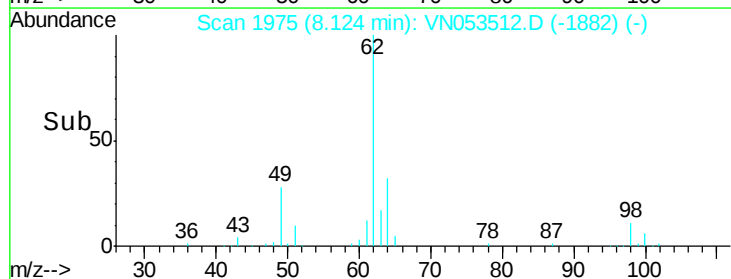
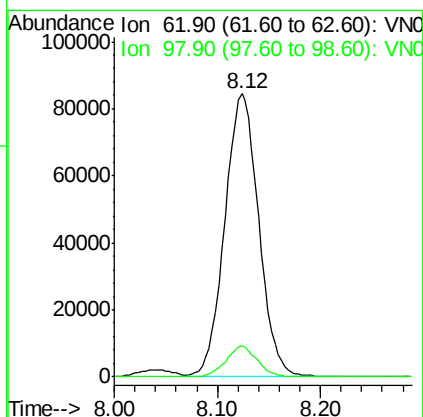
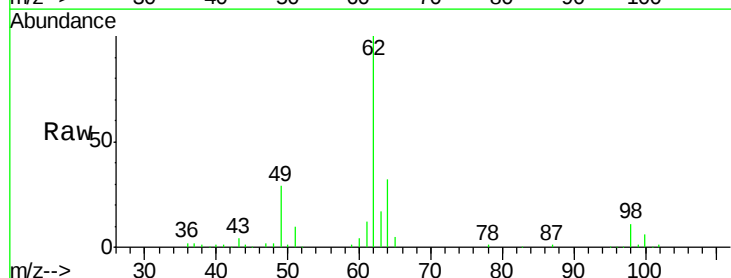
Manual Integrations
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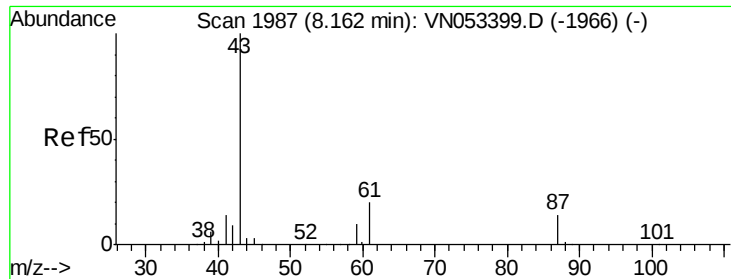
MMDadoda
1/23/2019 11:00:39 AM



#42
1,2-Dichloroethane
Concen: 22.509 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		192725		
98	10.0	0.0	19.6		





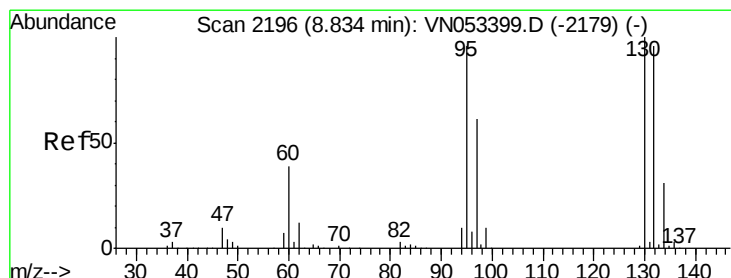
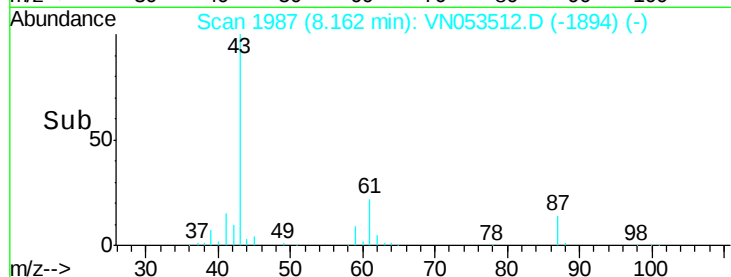
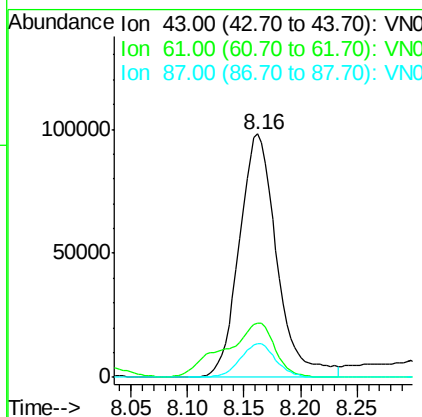
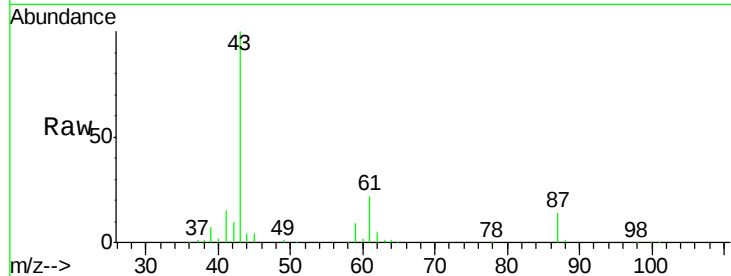
#43
Isopropyl Acetate
Concen: 22.777 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.9	35.9
87	13.0	11.0	16.6

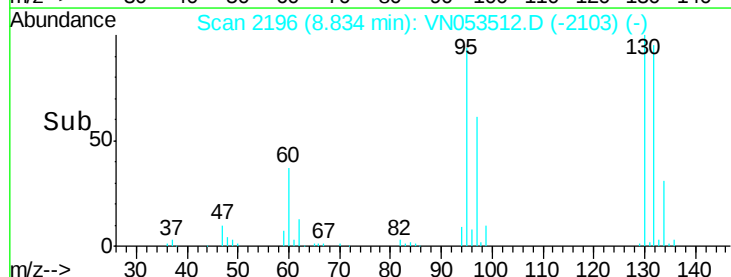
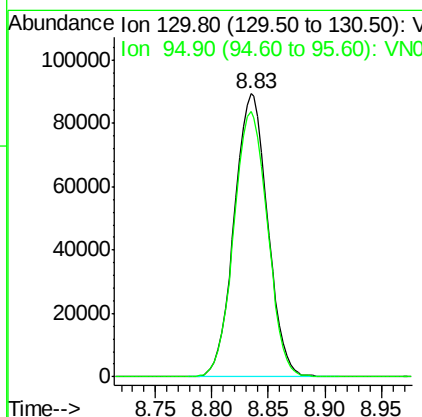
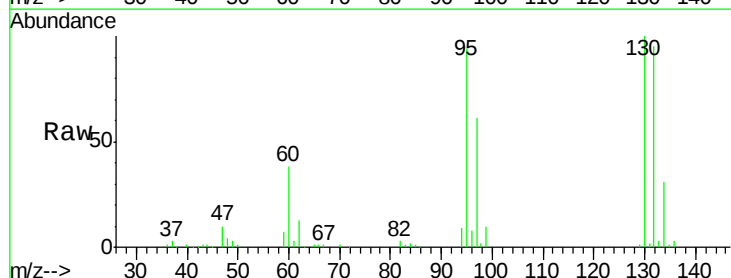
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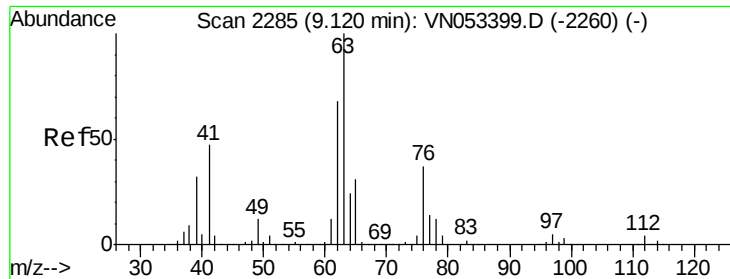
MMDadoda
1/23/2019 11:00:39 AM



#44
Trichloroethene
Concen: 22.553 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	191.4





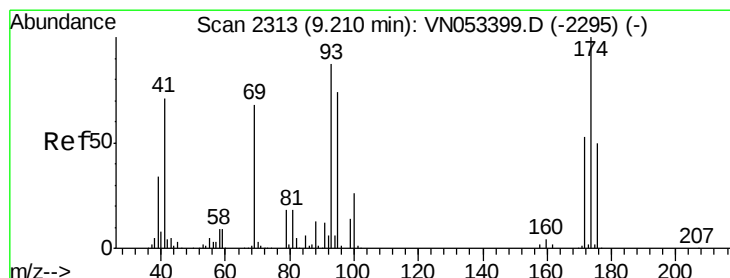
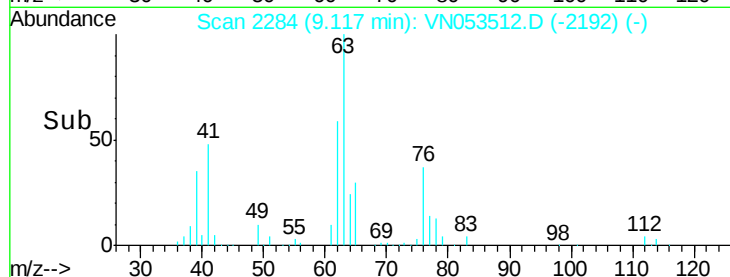
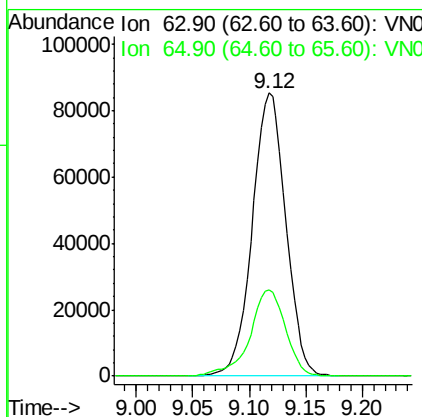
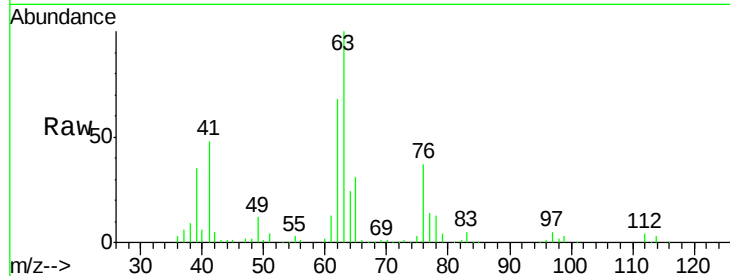
#45
 1,2-Dichloropropane
 Concen: 22.619 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion: 63 Resp: 176075
 Ion Ratio Lower Upper
 63 100
 65 30.7 25.0 37.4

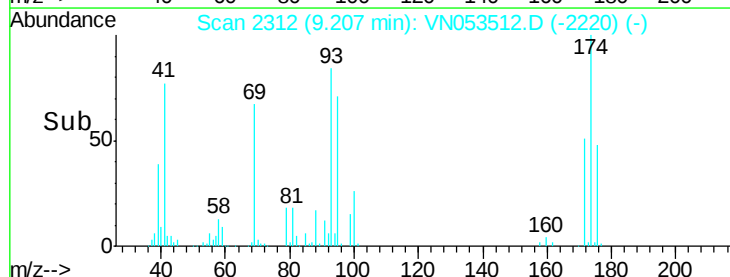
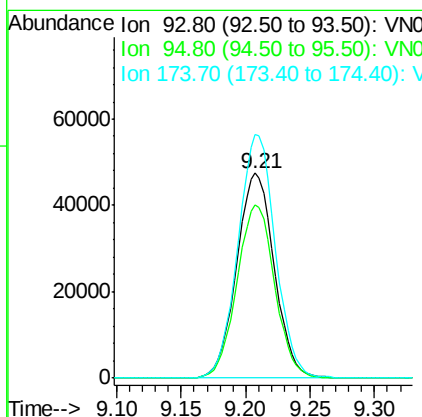
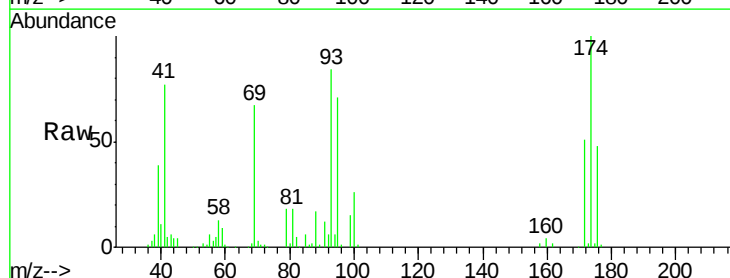
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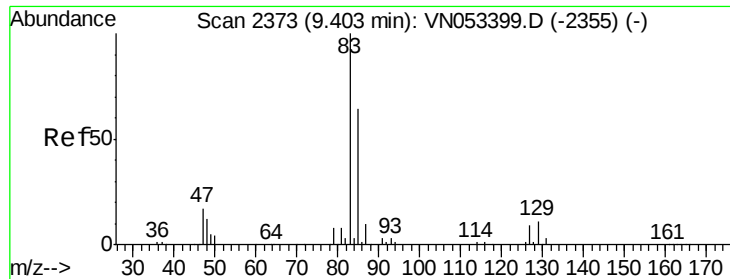
MMDadoda
 1/23/2019 11:00:39 AM



#46
 Dibromomethane
 Concen: 21.562 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion: 93 Resp: 96434
 Ion Ratio Lower Upper
 93 100
 95 85.0 67.3 100.9
 174 117.9 91.0 136.4





#47

Bromodichloromethane

Concen: 22.295 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

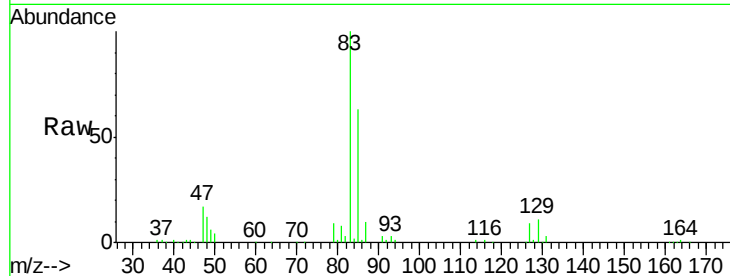
ClientSampled :

VN0122MBS01

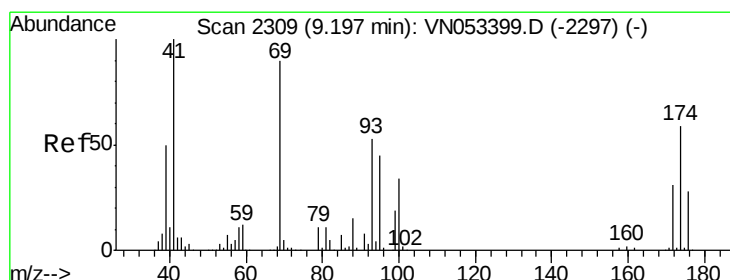
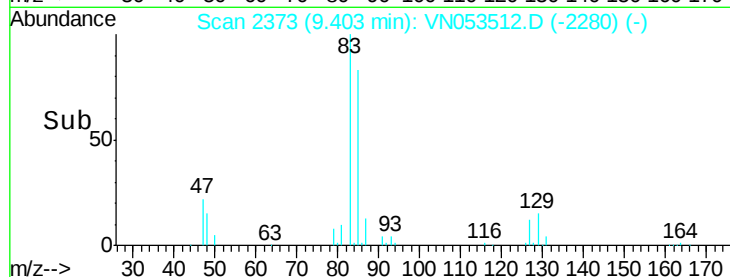
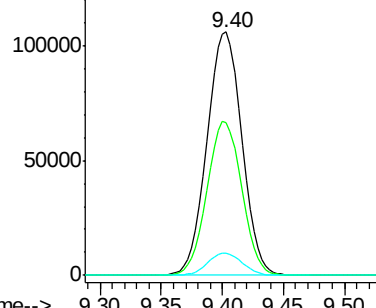
Tot Ion:	83	Resp:	209692
Ion Ratio	Lower	Upper	
83	100		
85	62.9	51.0	76.6
127	8.9	7.0	10.6

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 21.200 ug/l

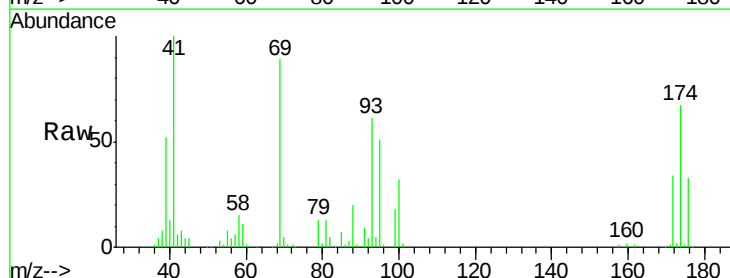
RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

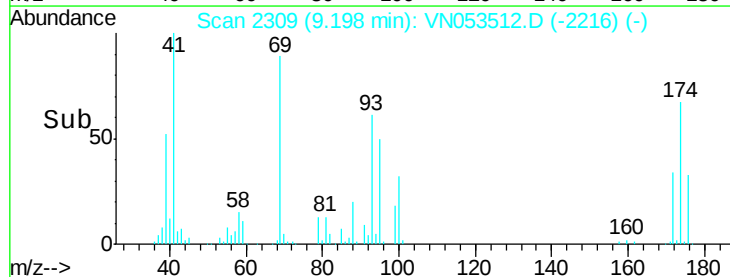
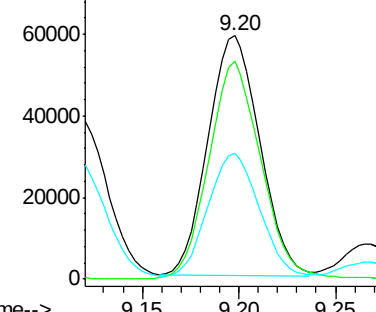
Lab File: VN053512.D

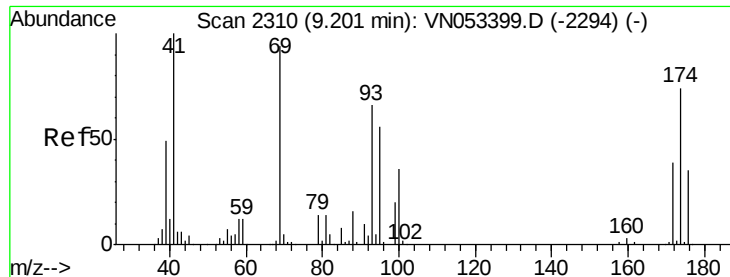
Acq: 22 Jan 2019 12:04

Tgt Ion:	41	Resp:	109519
Ion Ratio	Lower	Upper	
41	100		
69	91.9	73.8	110.6
39	53.1	40.0	60.0



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 488.092 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 88 Resp: 24625

Ion Ratio Lower Upper

88 100

43 33.9 27.8 41.6

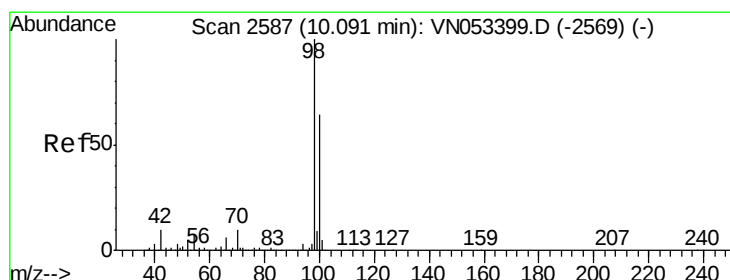
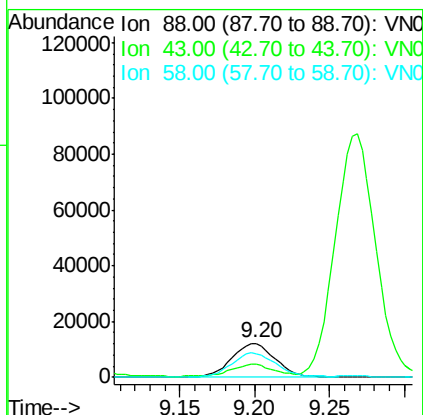
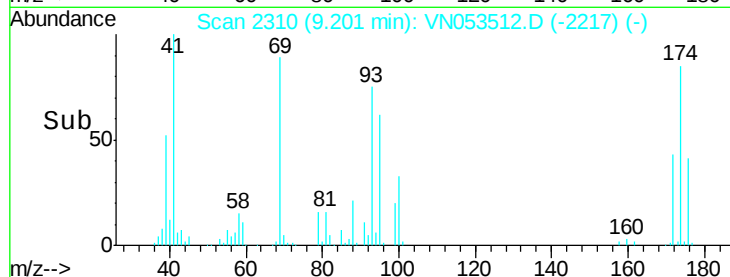
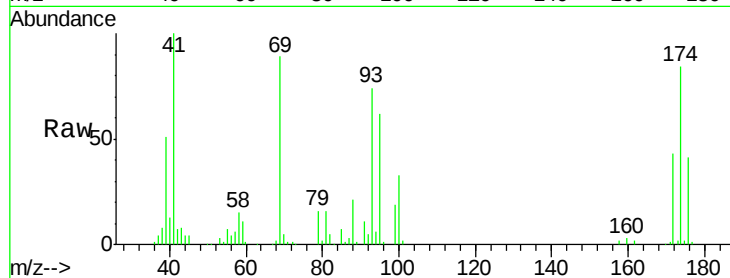
58 75.7 56.5 84.7

Manual Integrations

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#50

Toluene-d8

Concen: 488.092 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053512.D

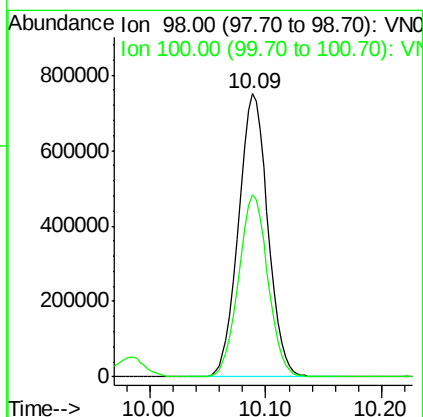
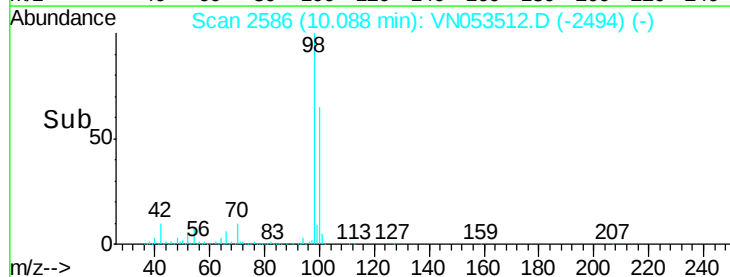
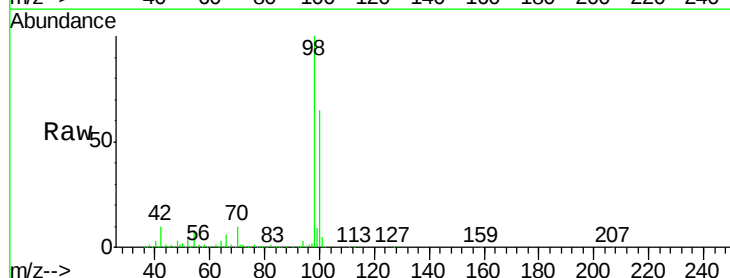
Acq: 22 Jan 2019 12:04

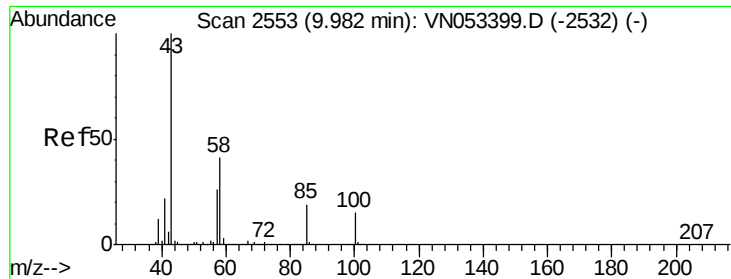
Tgt Ion: 98 Resp: 1318126

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 109.263 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 43 Resp: 596769

Ion Ratio Lower Upper

43 100

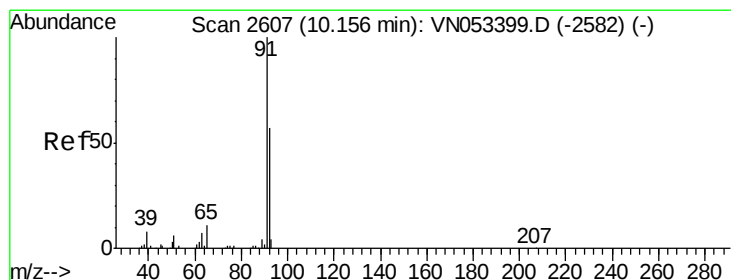
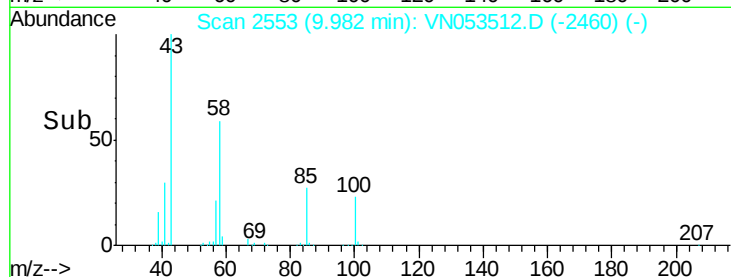
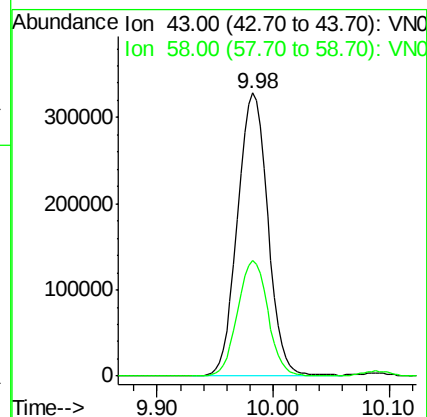
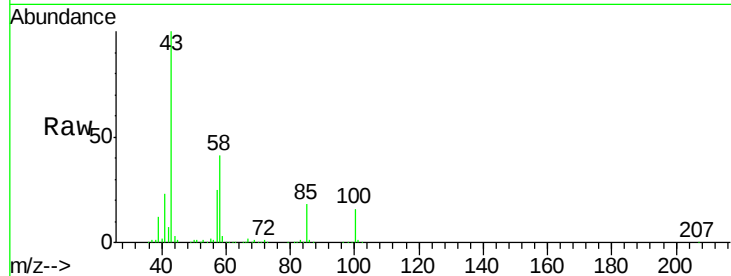
58 40.8 32.8 49.2

Manual Integrations

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#52

Toluene

Concen: 22.076 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053512.D

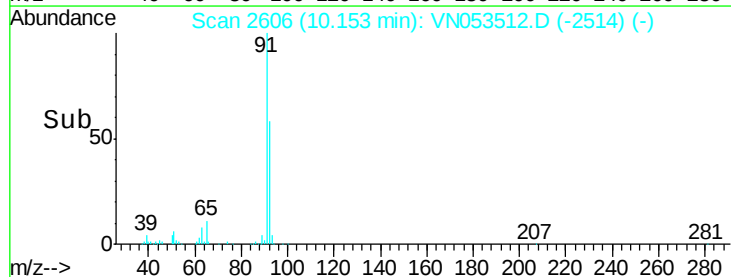
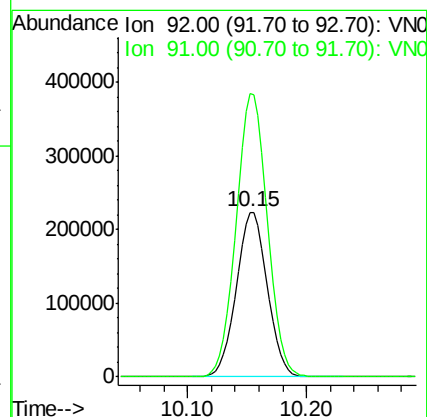
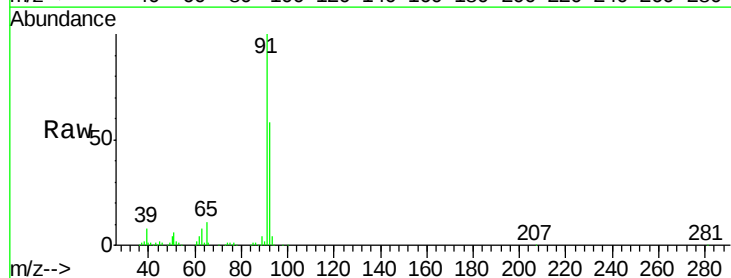
Acq: 22 Jan 2019 12:04

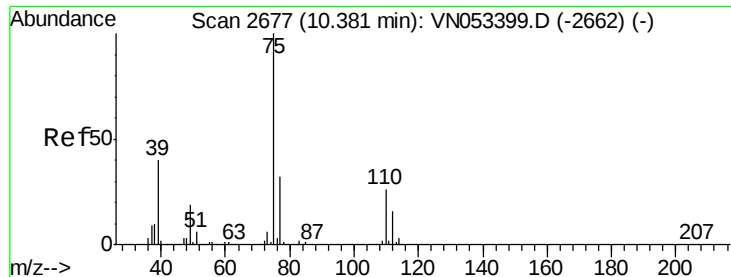
Tgt Ion: 92 Resp: 402793

Ion Ratio Lower Upper

92 100

91 173.1 139.9 209.9





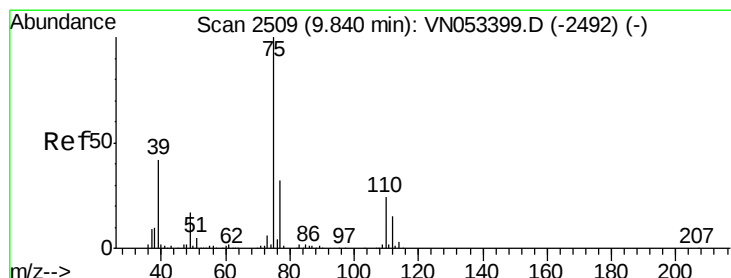
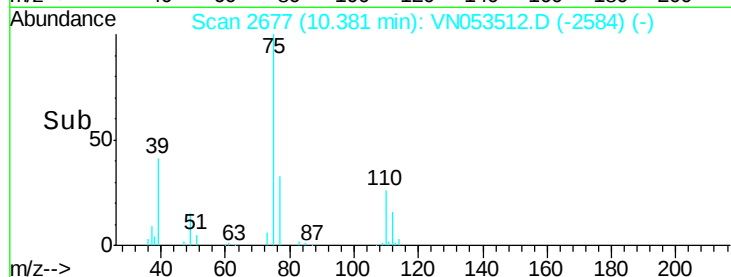
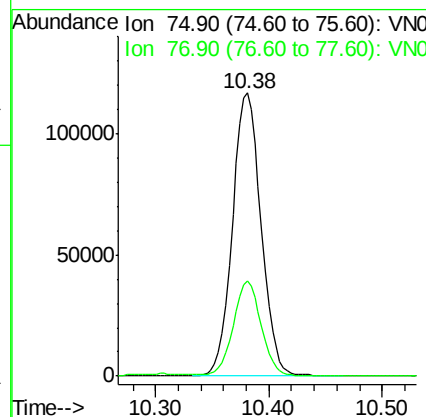
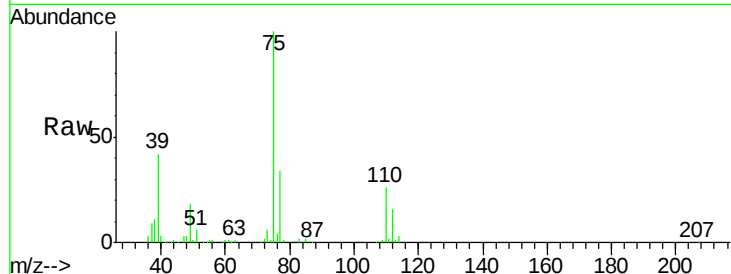
#53
t-1,3-Dichloropropene
Concen: 21.566 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.5	38.3

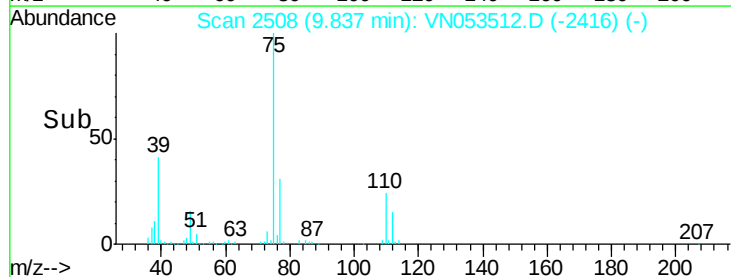
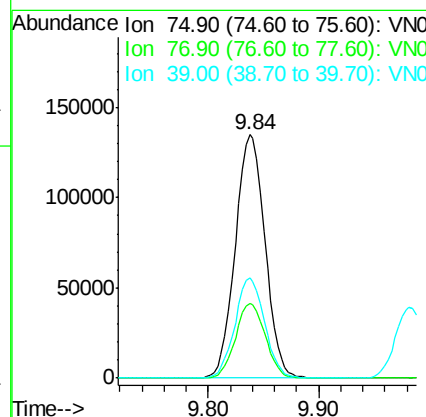
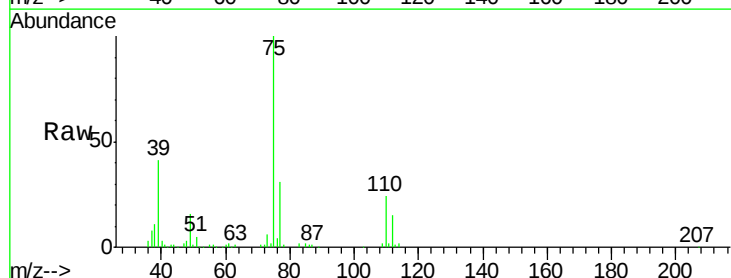
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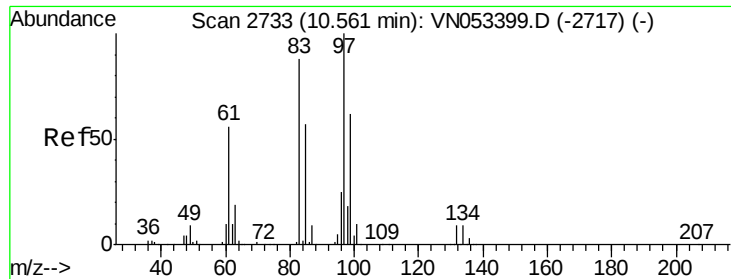
MMDadoda
1/23/2019 11:00:39 AM



#54
cis-1,3-Dichloropropene
Concen: 22.546 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	41.2	33.4	50.0





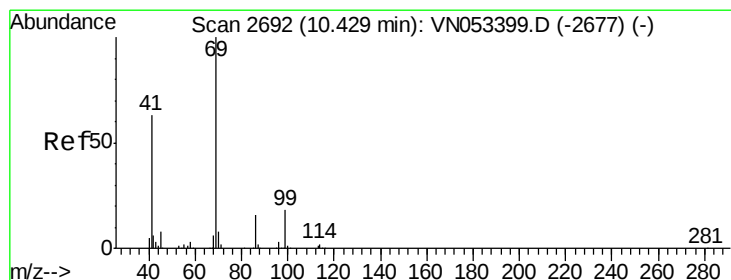
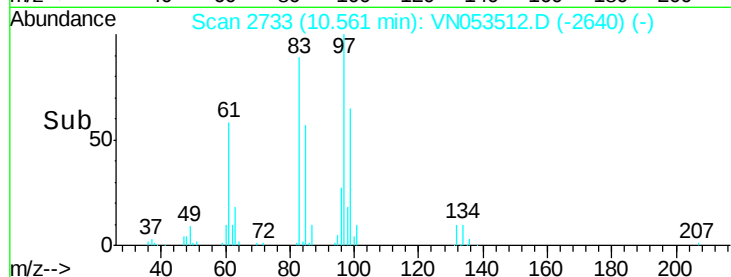
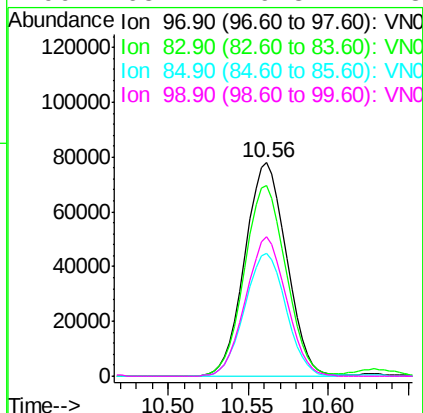
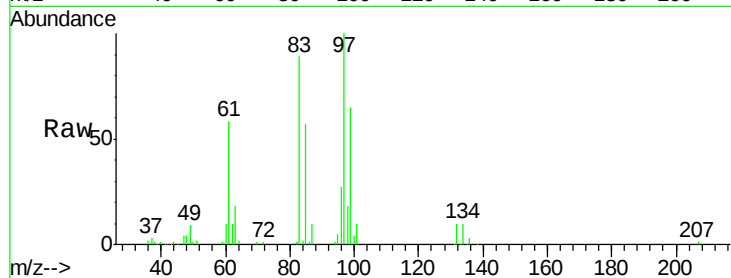
#55
 1,1,2-Trichloroethane
 Concen: 22.123 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		139167		
83	89.5	70.1	105.1		
85	57.2	45.4	68.0		
99	65.2	49.8	74.8		

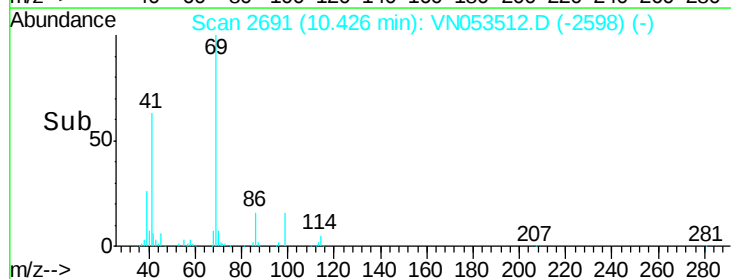
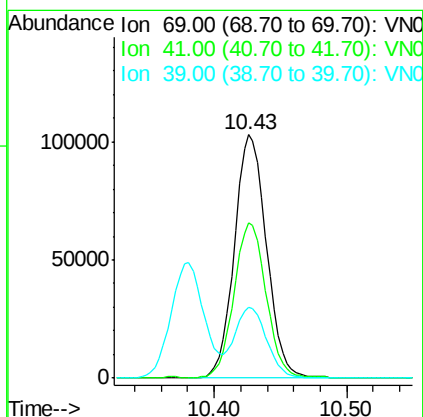
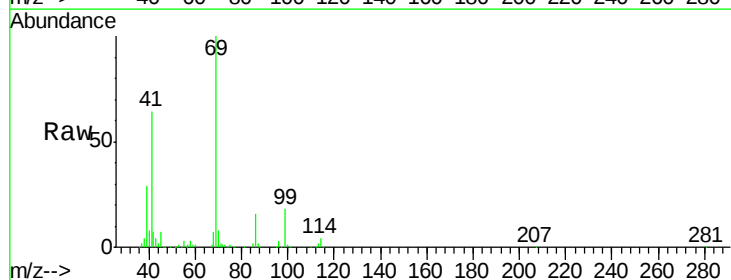
Manual Integrations
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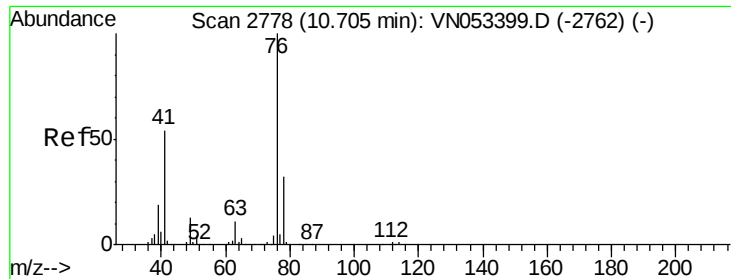
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 1/23/2019 11:00:39 AM



#56
 Ethyl methacrylate
 Concen: 20.657 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		173169		
41	63.5	49.4	74.0		
39	28.6	23.3	34.9		





#57

1,3-Dichloropropane

Concen: 22.385 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 76 Resp: 243585

Ion Ratio Lower Upper

76 100

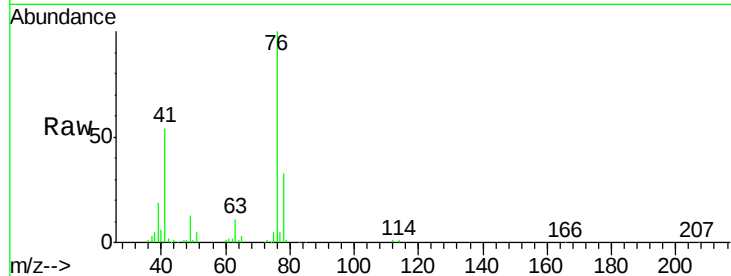
78 32.5 25.6 38.4

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

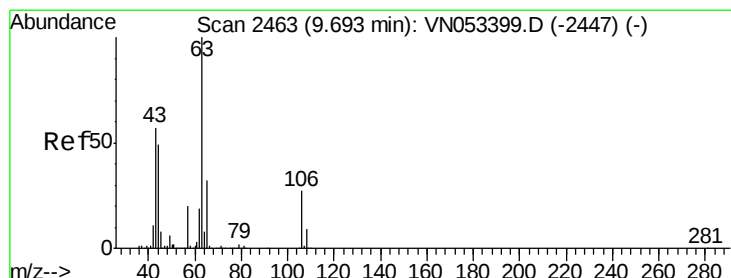
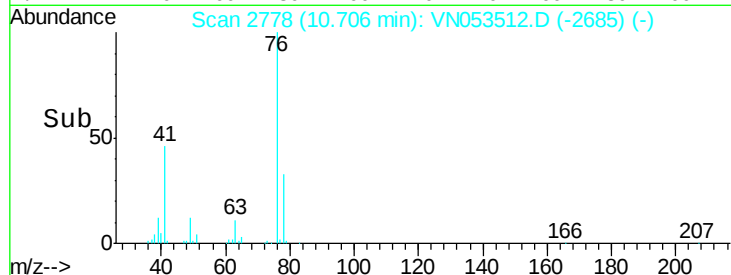
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 98.752 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053512.D

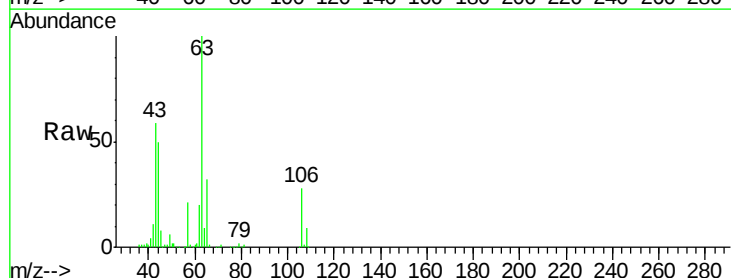
Acq: 22 Jan 2019 12:04

Tgt Ion: 63 Resp: 434581

Ion Ratio Lower Upper

63 100

106 27.3 21.5 32.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

250000

200000

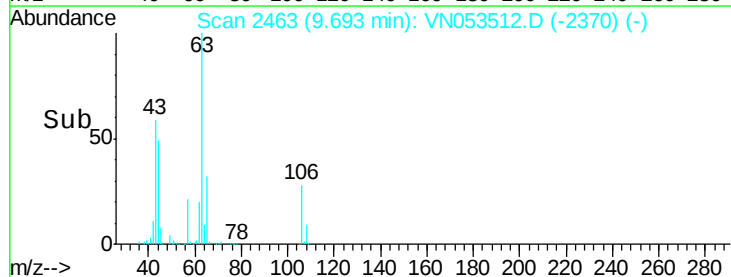
150000

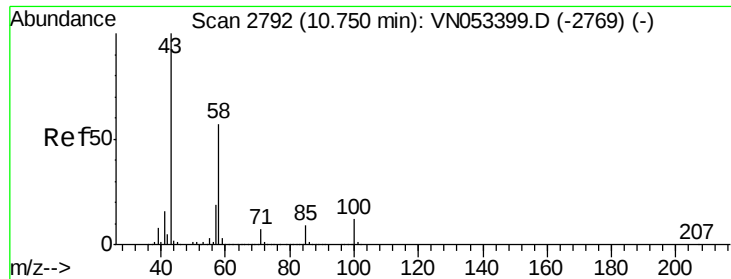
100000

50000

0

Time--> 9.60 9.65 9.70 9.75 9.80





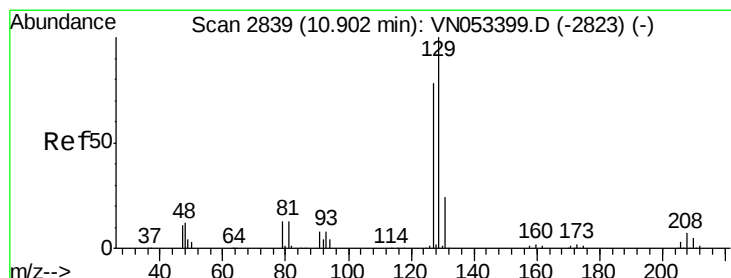
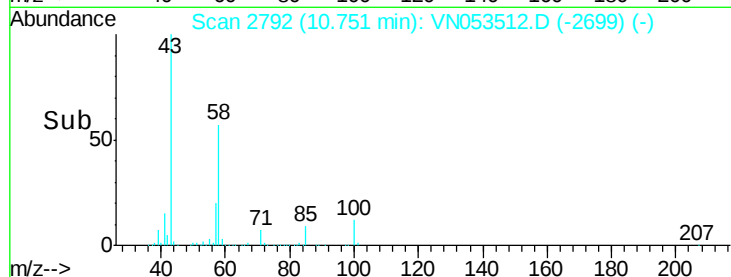
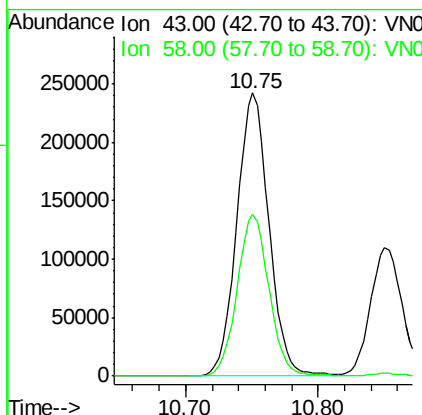
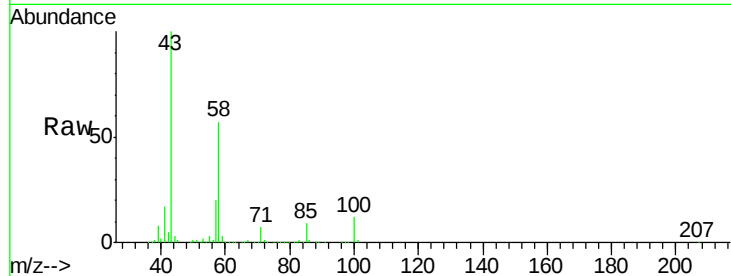
#59
2-Hexanone
Concen: 105.993 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.6	85.8

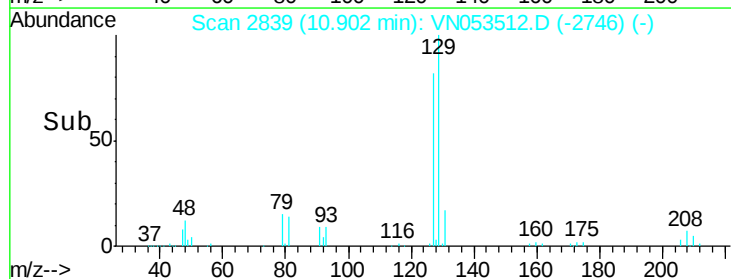
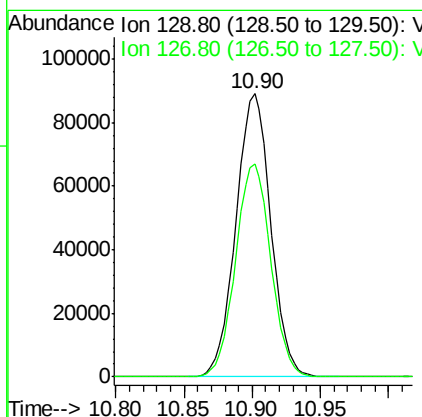
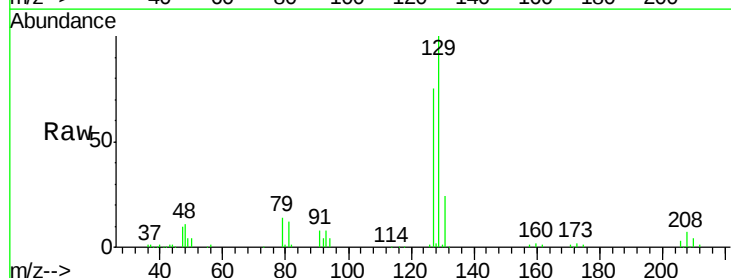
Manual Integrations
APPROVED

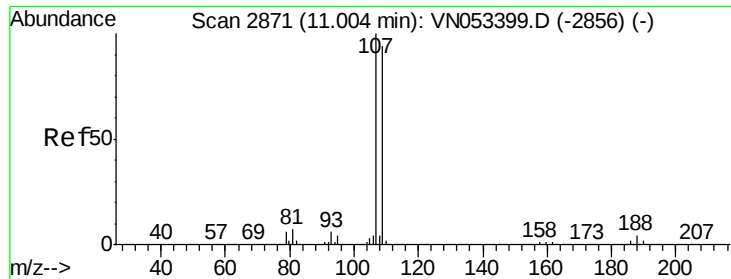
MMDadoda
1/23/2019 11:00:39 AM



#60
Dibromochloromethane
Concen: 22.170 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.6	115.8





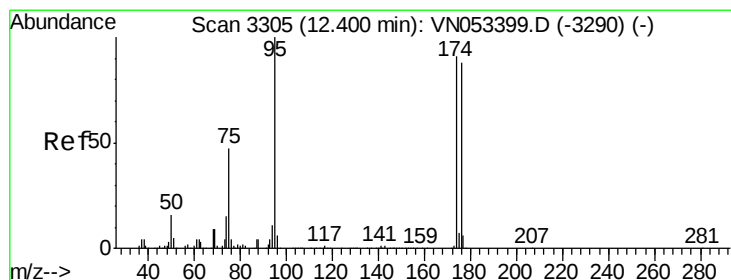
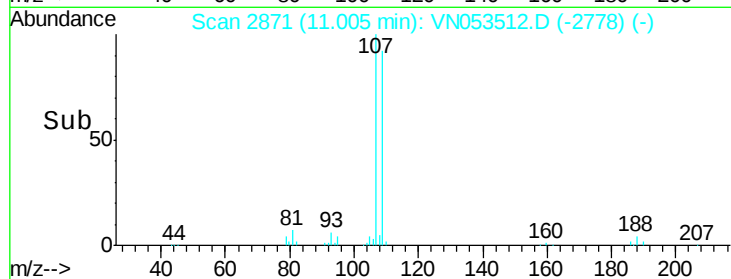
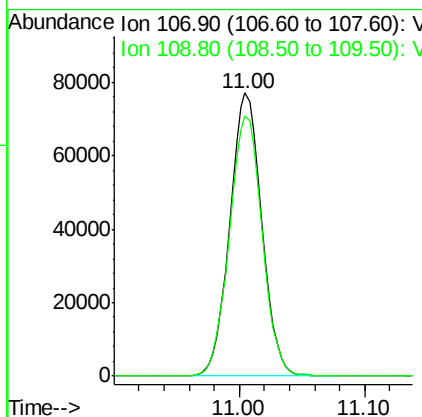
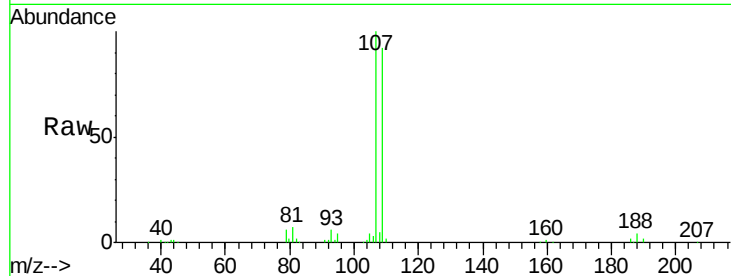
#61
1,2-Dibromoethane
Concen: 21.352 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.7	113.5

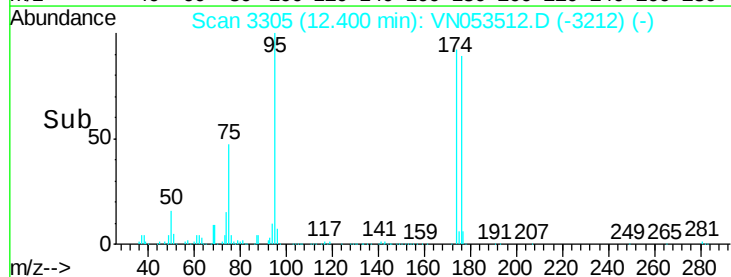
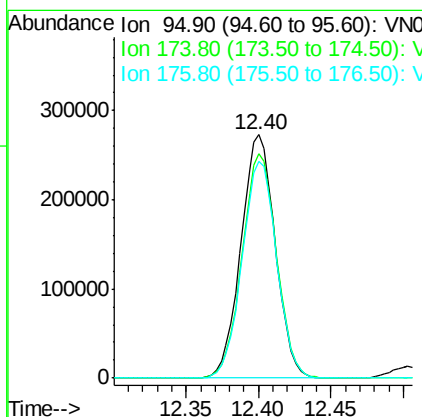
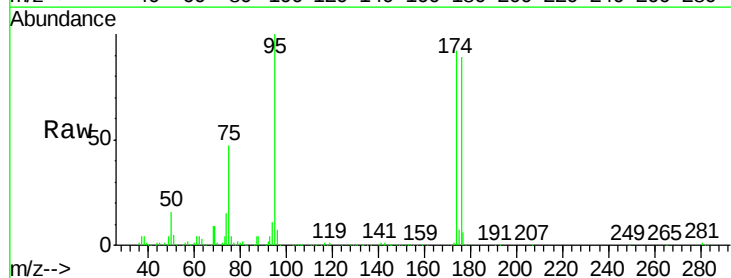
Manual Integrations
APPROVED

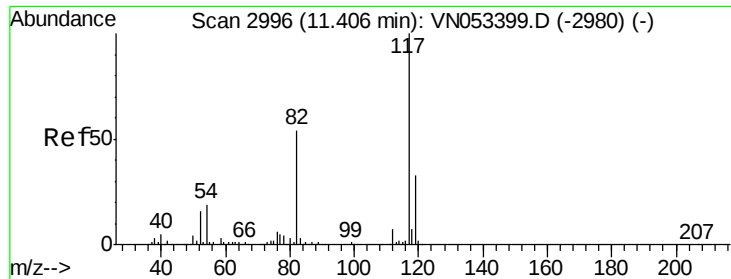
MMDadoda
1/23/2019 11:00:39 AM



#62
4-Bromofluorobenzene
Concen: 21.352 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.7	0.0	183.2
176	89.8	0.0	177.4





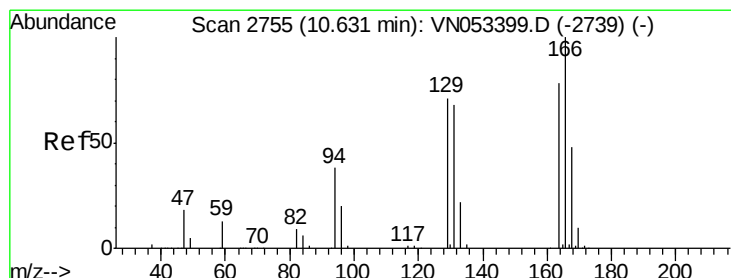
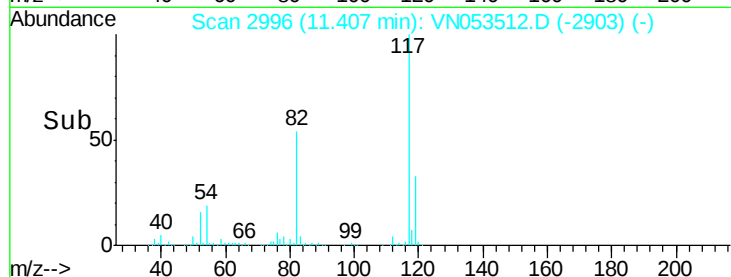
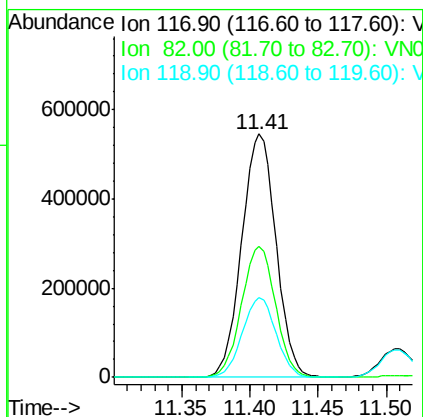
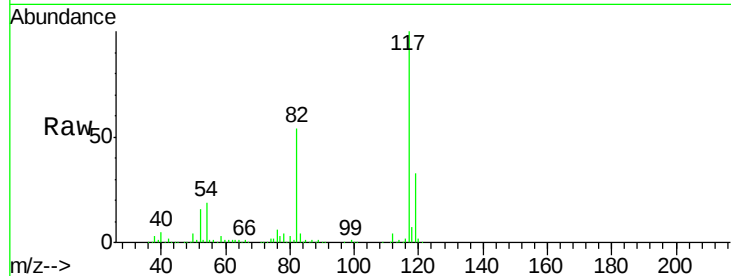
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.9	64.3
119	32.8	26.0	39.0

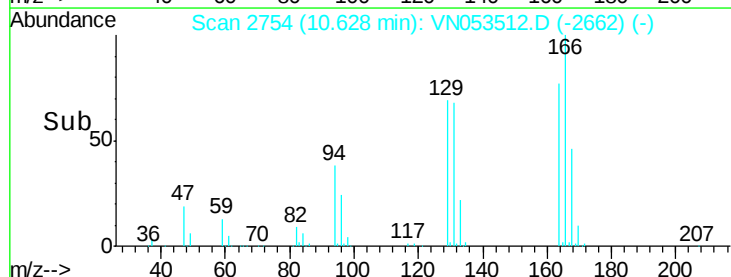
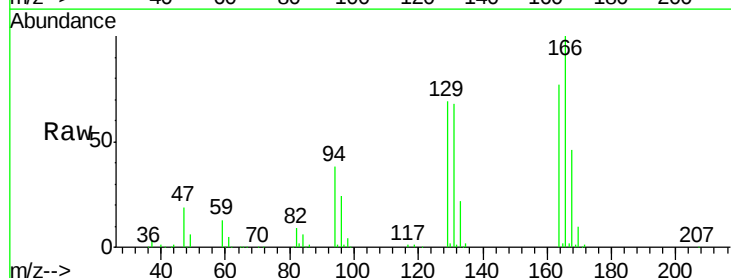
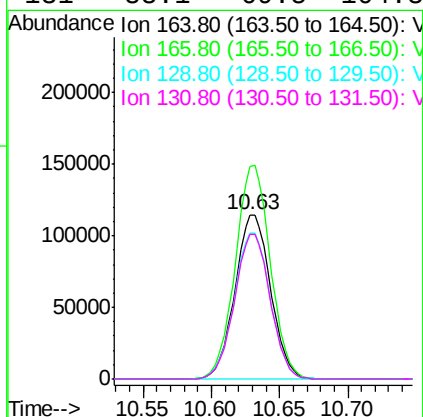
Manual Integrations
APPROVED

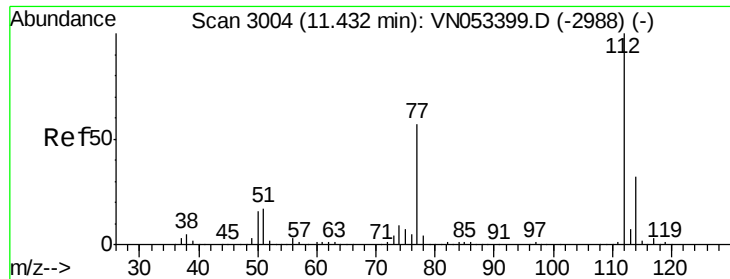
MMDadoda
1/23/2019 11:00:39 AM



#64
Tetrachloroethene
Concen: 23.189 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.5	102.2	153.4
129	88.9	72.6	109.0
131	88.1	69.5	104.3





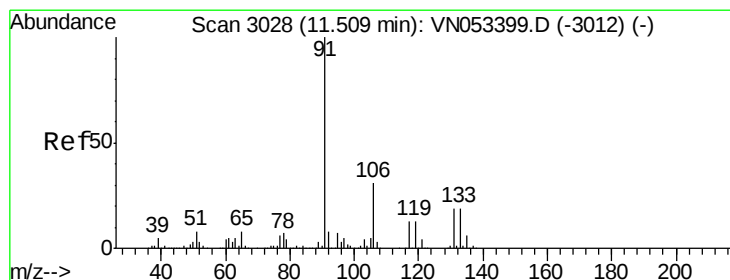
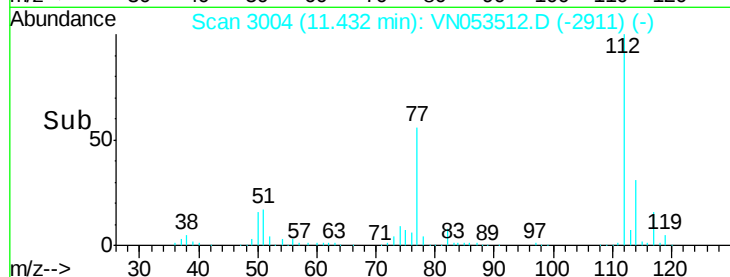
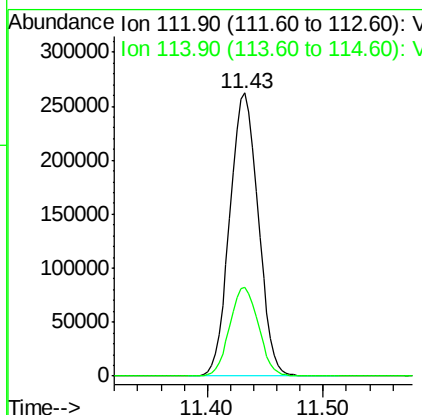
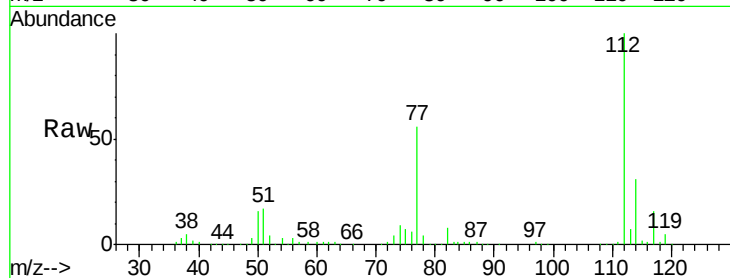
#65
Chlorobenzene
Concen: 22.186 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

Tot Ion:112 Resp: 446229
Ion Ratio Lower Upper
112 100
114 31.4 25.3 37.9

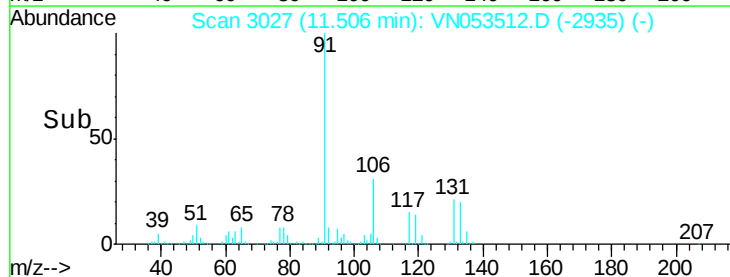
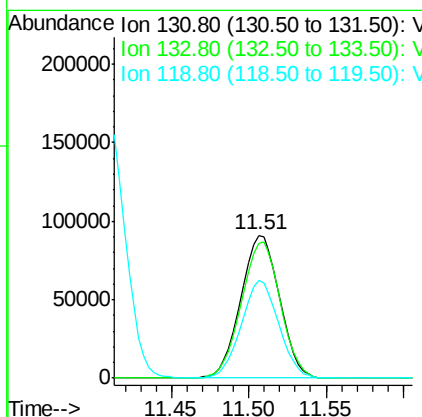
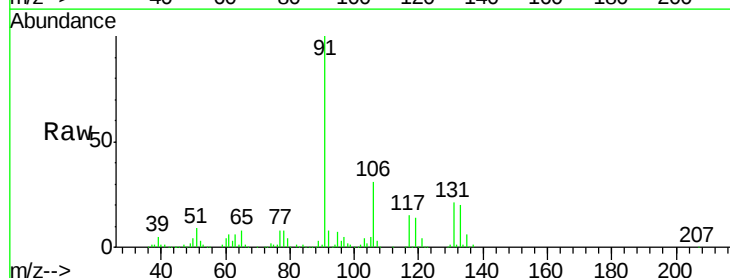
Manual Integrations
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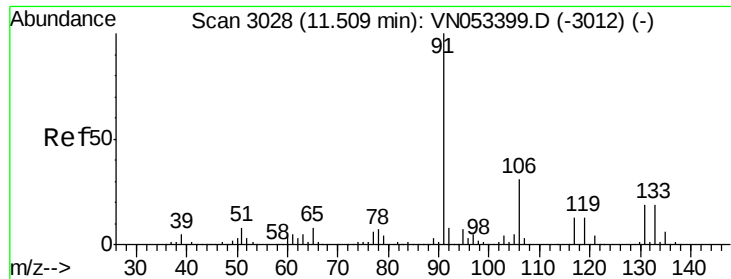
MMDadoda
1/23/2019 11:00:39 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.728 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion:131 Resp: 159034
Ion Ratio Lower Upper
131 100
133 95.5 48.0 144.0
119 65.9 33.5 100.5





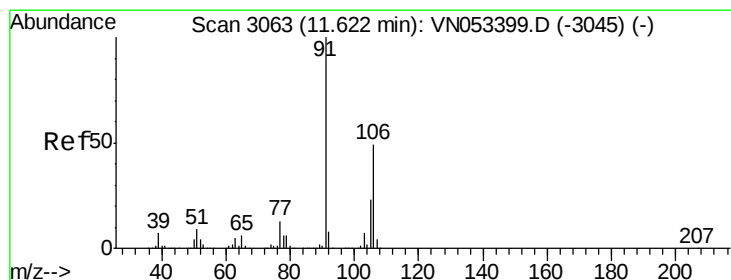
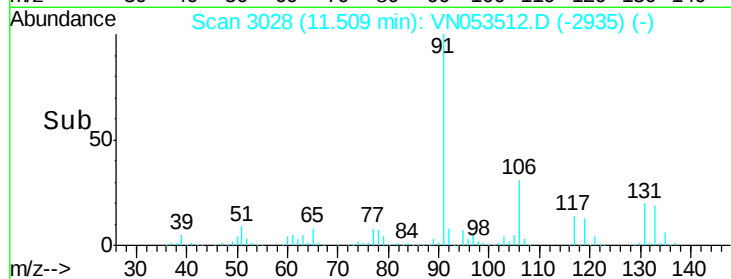
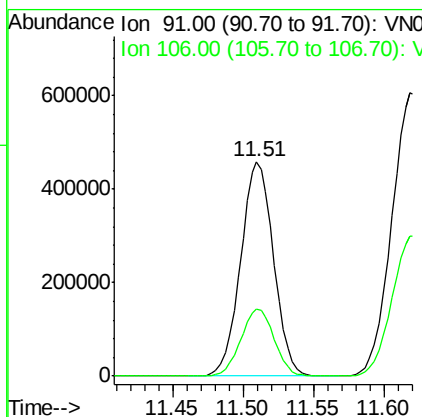
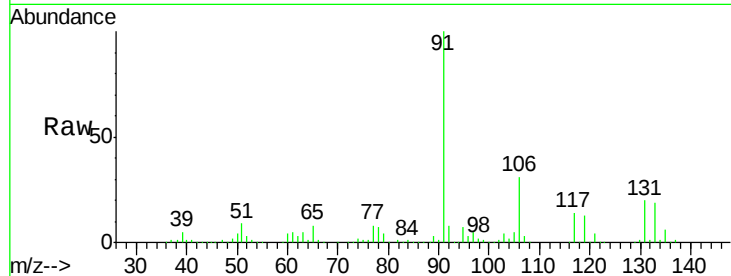
#67
Ethyl Benzene
Concen: 21.901 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

Tot Ion: 91 Resp: 750741
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.6

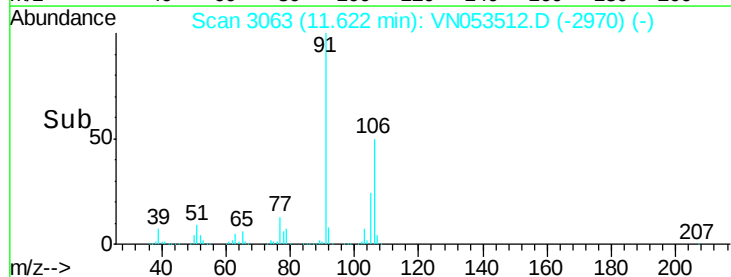
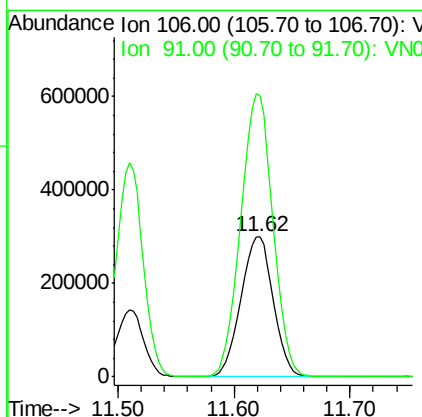
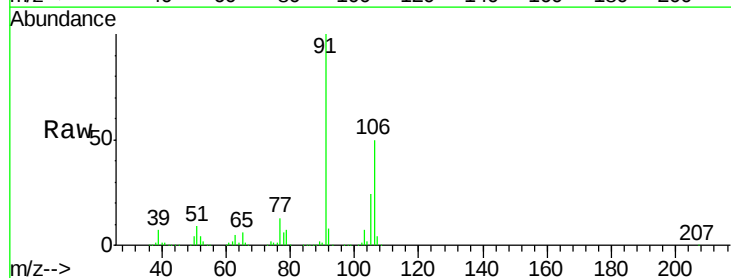
Manual Integrations
APPROVED

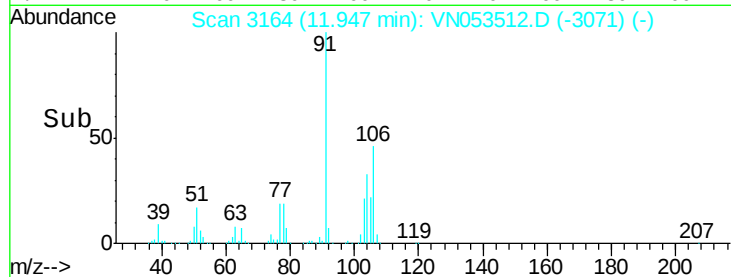
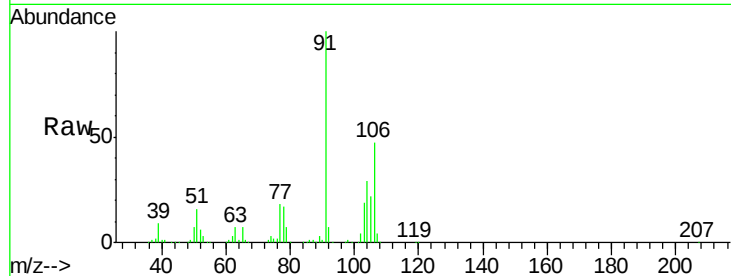
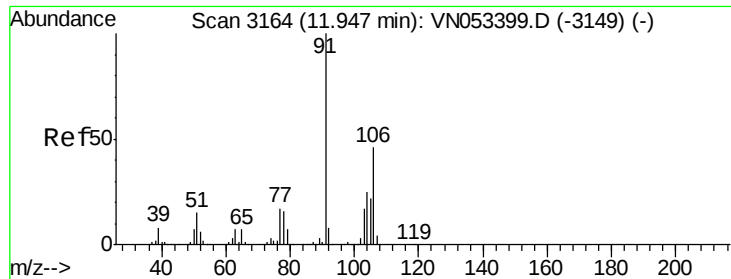
MMDadoda
1/23/2019 11:00:39 AM



#68
m/p-Xylenes
Concen: 44.929 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion: 106 Resp: 581475
Ion Ratio Lower Upper
106 100
91 200.8 161.4 242.2





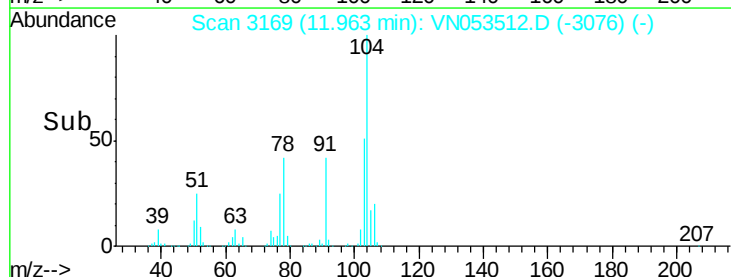
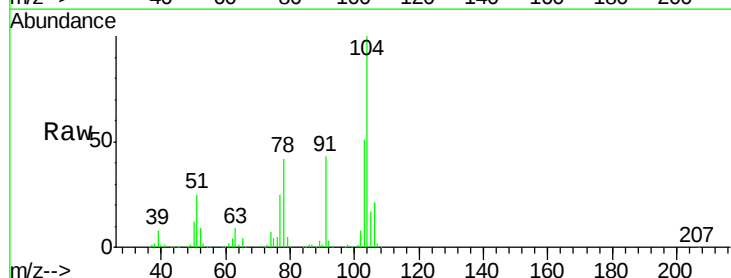
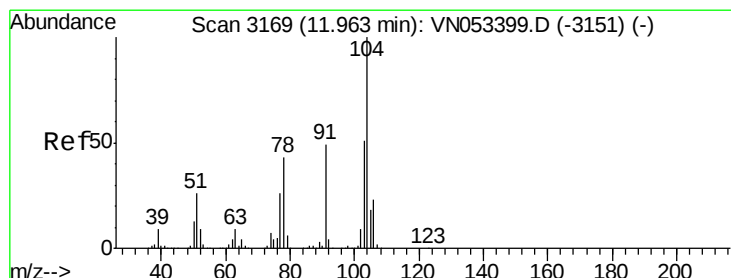
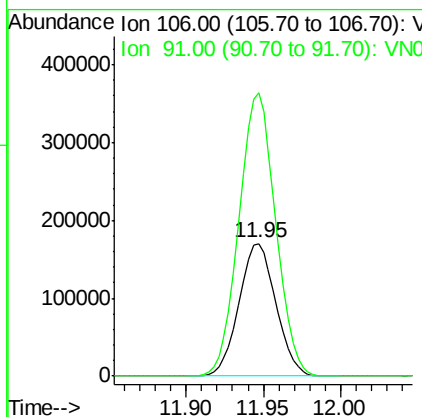
#69
o-Xylene
Concen: 22.518 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	283180		
91	91	211.8	106.9	320.8	

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

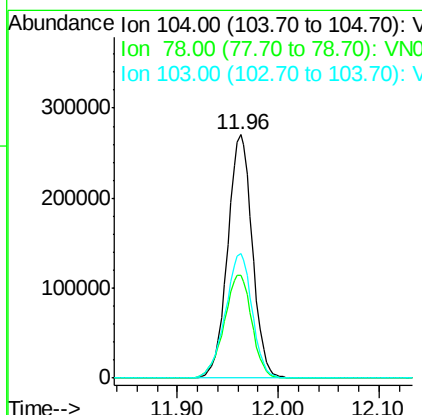
Manual Integrations
APPROVED

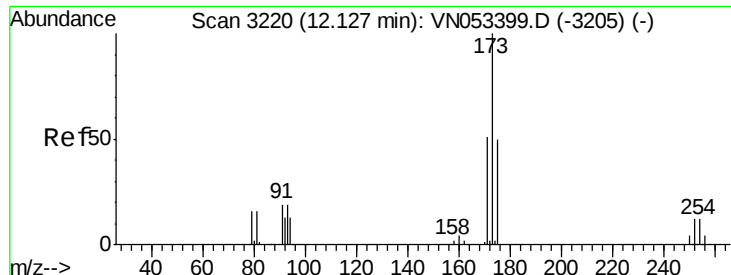
MMDadoda
1/23/2019 11:00:39 AM



#70
Styrene
Concen: 22.582 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	460890		
78	78	47.5	38.2	57.2	
103	103	55.8	44.4	66.6	





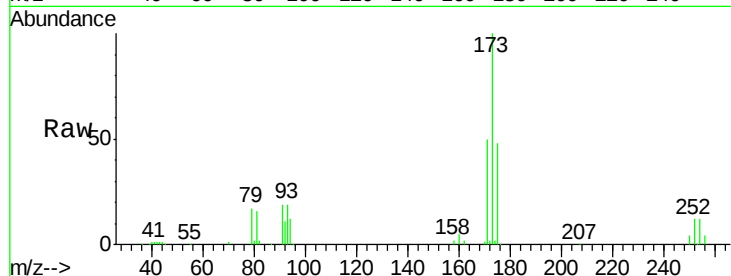
#71
Bromoform
Concen: 21.864 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.6	74.0
254	0.0	0.2	0.2

Manual Integrations
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MMDadoda
1/23/2019 11:00:39 AM

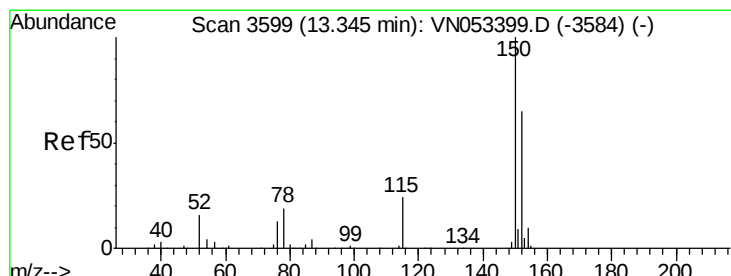
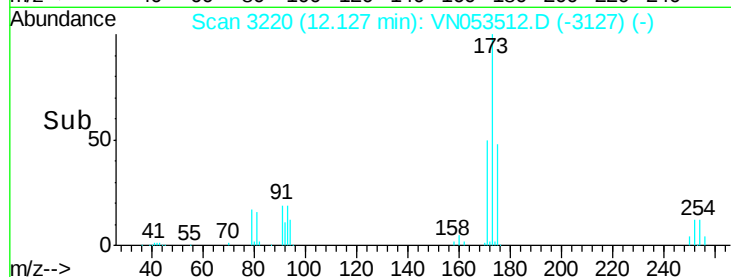
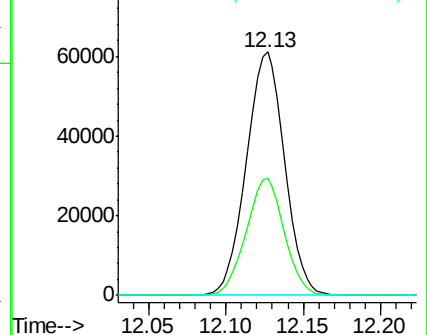


Abundance

Ion 172.70 (172.40 to 173.40): V

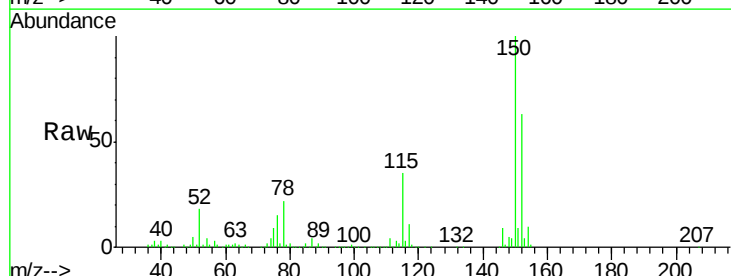
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.4
150	164.7	0.0	349.0

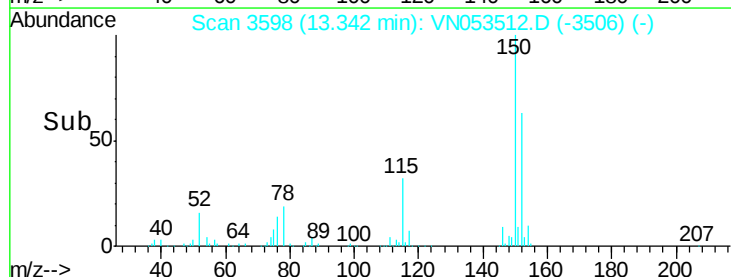
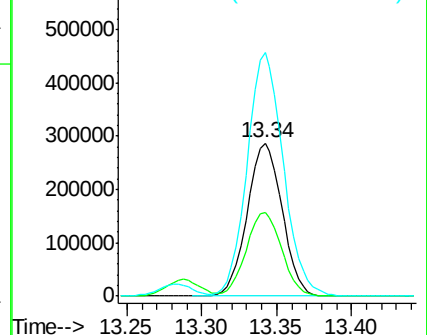


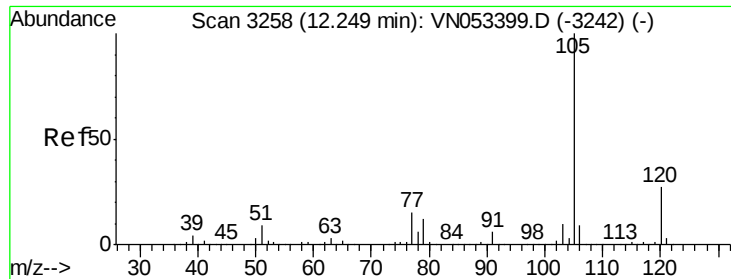
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.882 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampled :

VN0122MBS01

Tot Ion:105 Resp: 747902

Ion Ratio Lower Upper

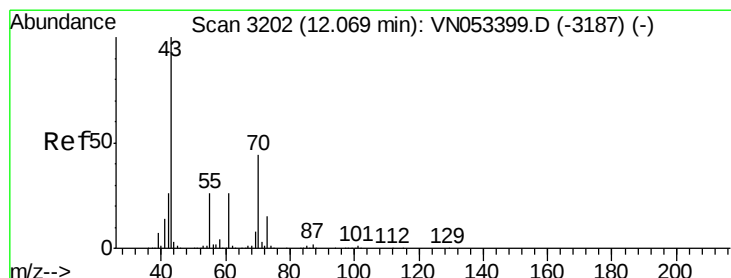
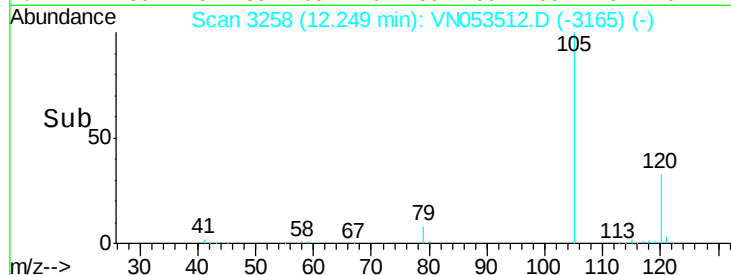
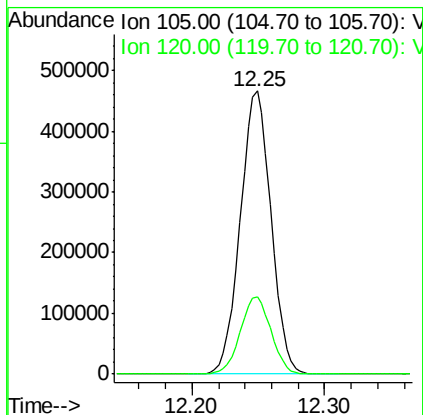
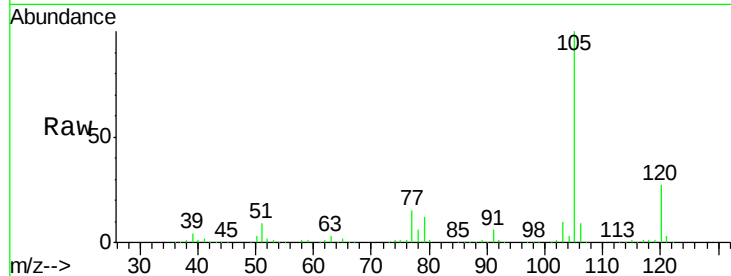
105 100

120 27.3 13.6 40.7

Manual Integrations
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1/23/2019 11:00:39 AM



#74

N-ethyl acetate

Concen: 20.769 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion: 43 Resp: 189228

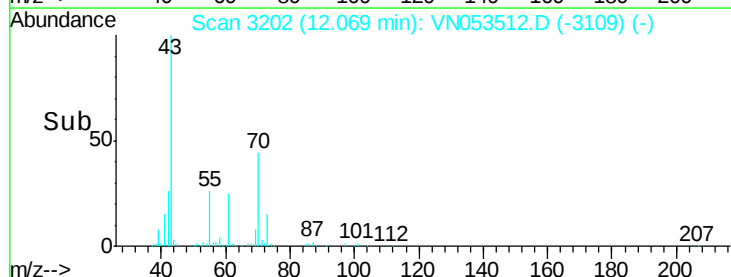
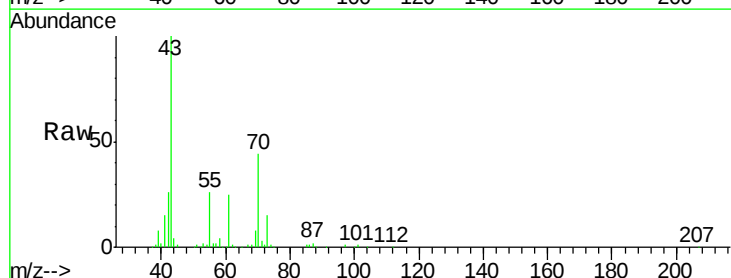
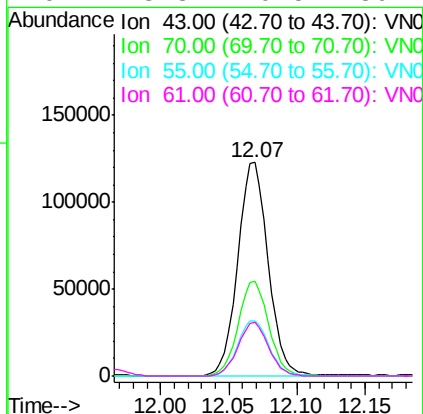
Ion Ratio Lower Upper

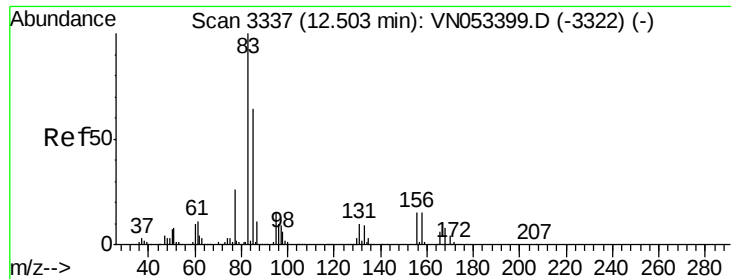
43 100

70 45.0 35.4 53.2

55 27.2 20.9 31.3

61 25.3 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.547 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 83 Resp: 147285

Ion Ratio Lower Upper

83 100

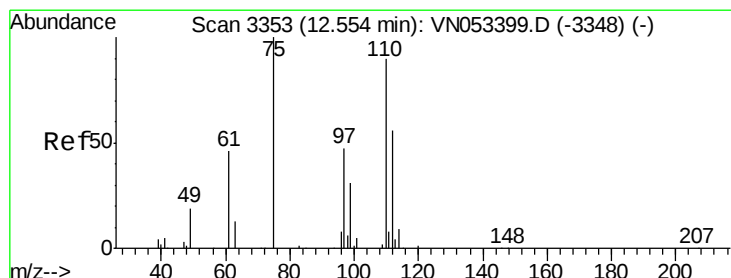
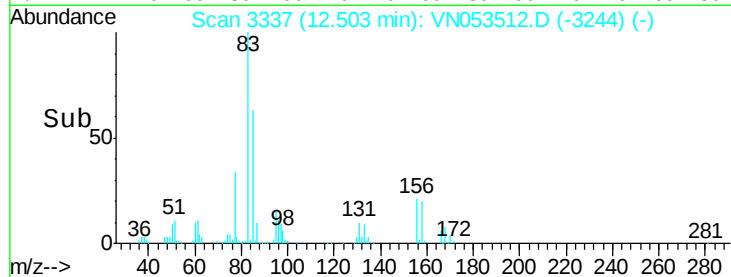
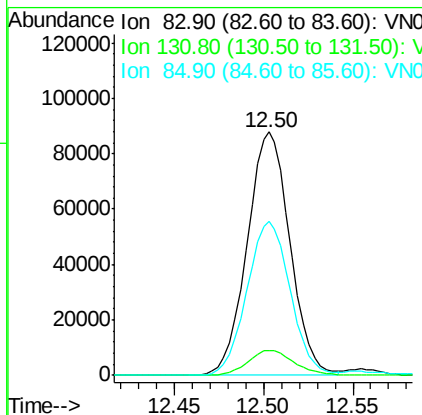
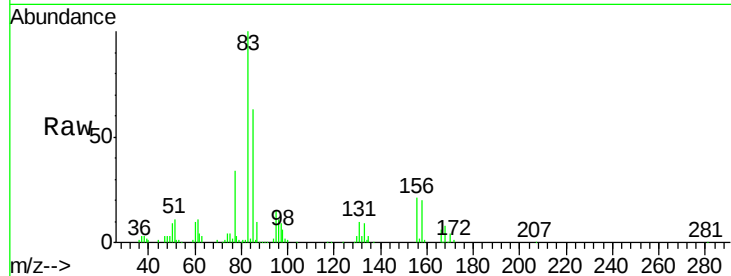
131 11.0 5.3 15.8

85 63.9 32.1 96.3

Manual Integrations
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1/23/2019 11:00:39 AM



#76

1,2,3-Trichloropropane

Concen: 21.321 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053512.D

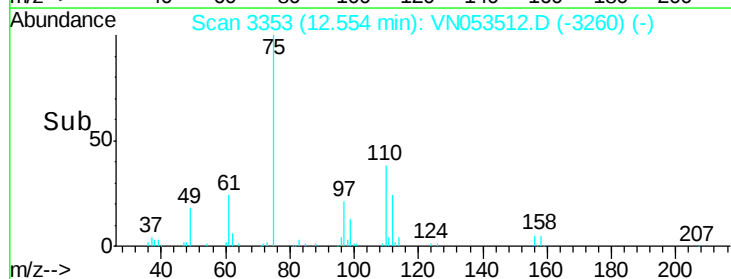
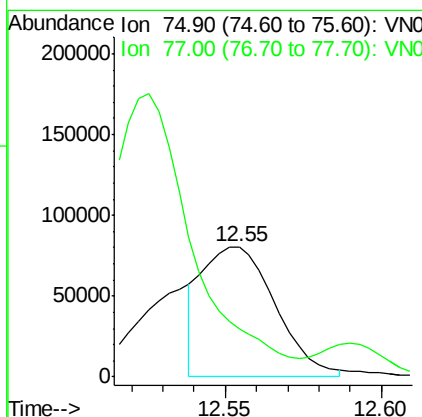
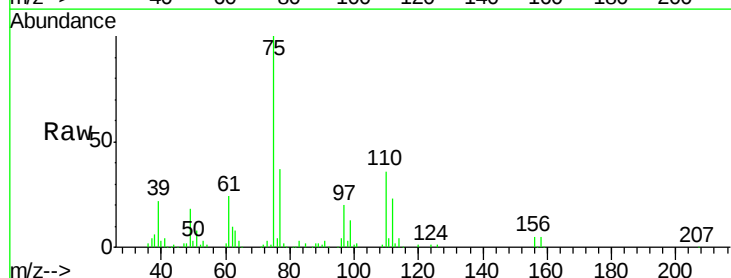
Acq: 22 Jan 2019 12:04

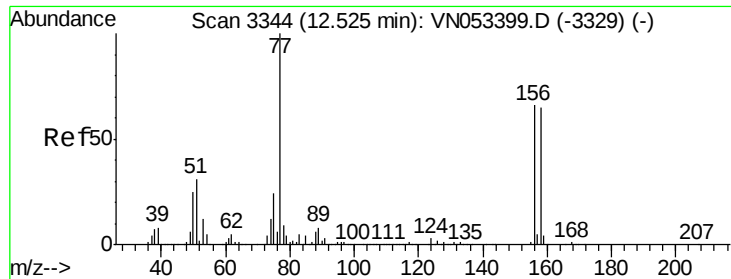
Tgt Ion: 75 Resp: 131135

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





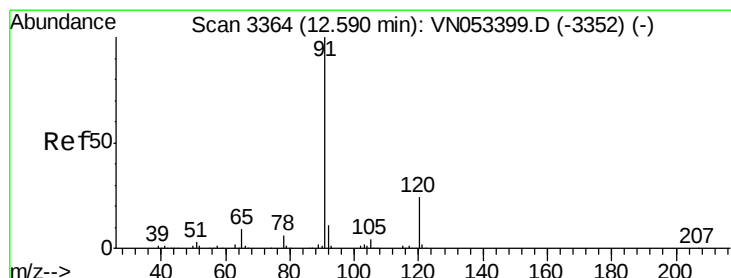
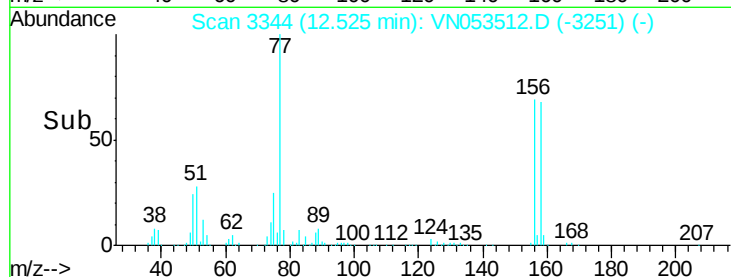
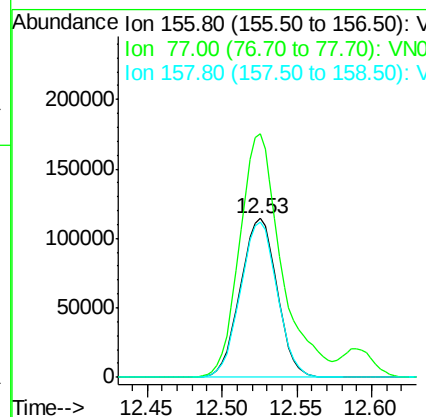
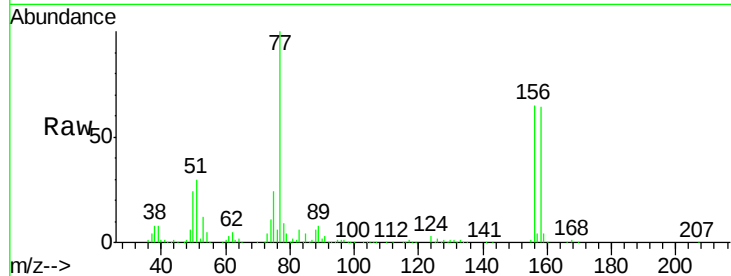
#77
Bromobenzene
Concen: 21.749 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	174.0	87.9	263.8
158	97.6	48.8	146.4

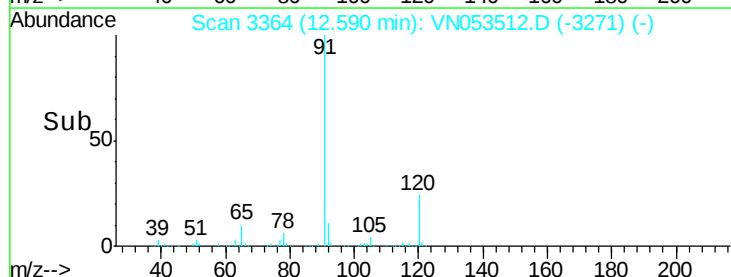
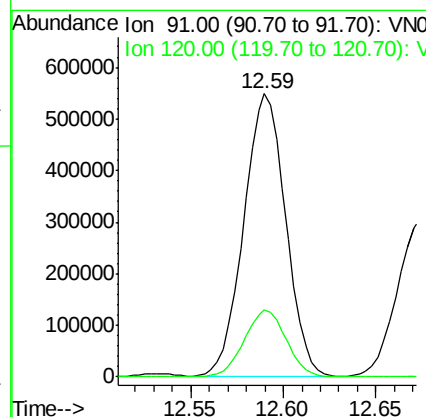
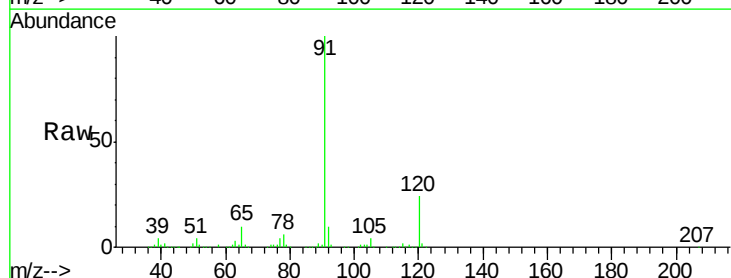
Manual Integrations
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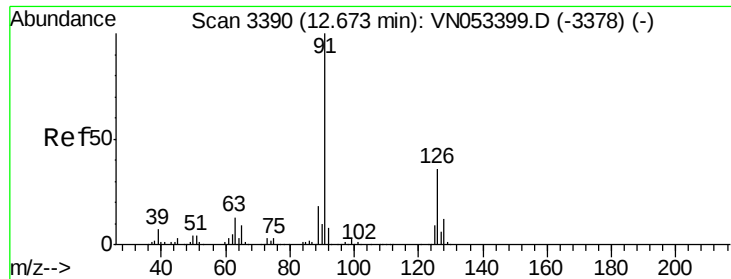
MMDadoda
1/23/2019 11:00:39 AM



#78
n-propylbenzene
Concen: 21.932 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.9	35.5





#79

2-Chlorotoluene

Concen: 21.619 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion: 91 Resp: 502753

Ion Ratio Lower Upper

91 100

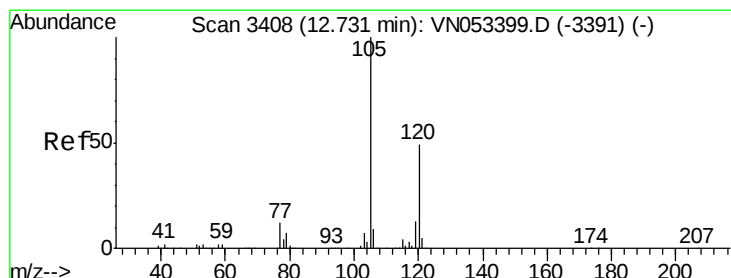
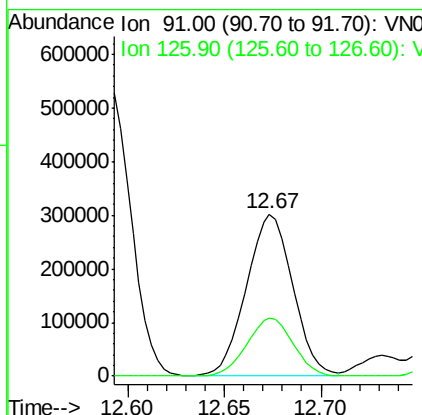
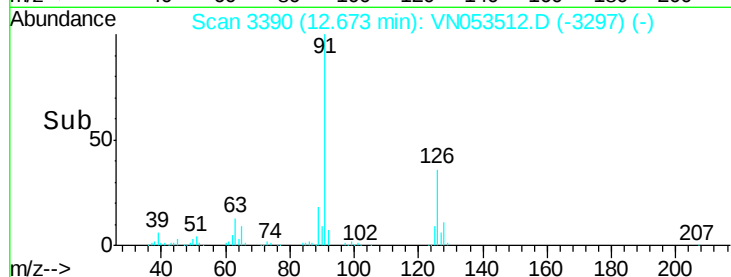
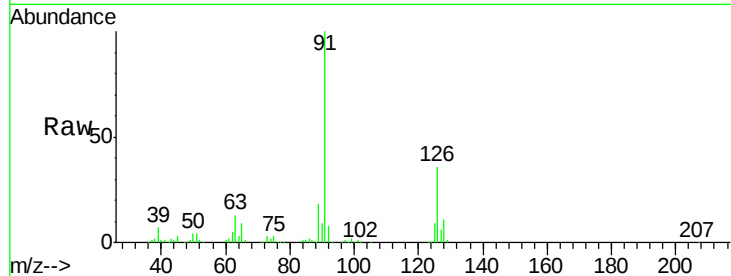
126 36.1 17.9 53.7

Manual Integrations

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1/23/2019 11:00:39 AM



#80

1,3,5-Trimethylbenzene

Concen: 22.521 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053512.D

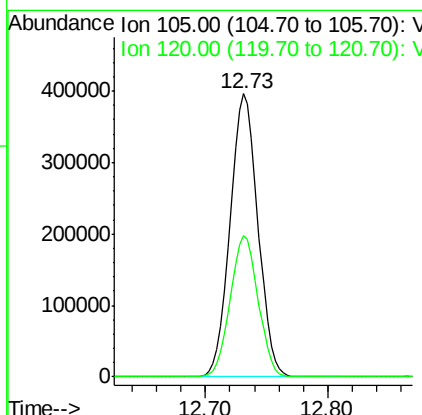
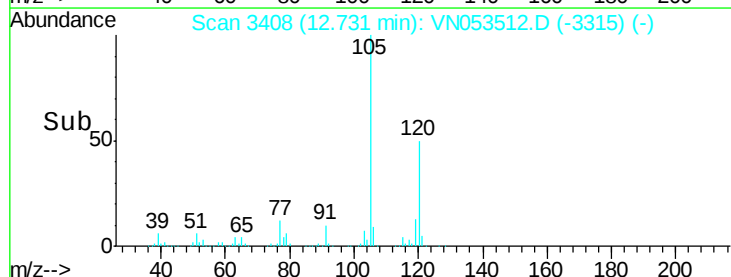
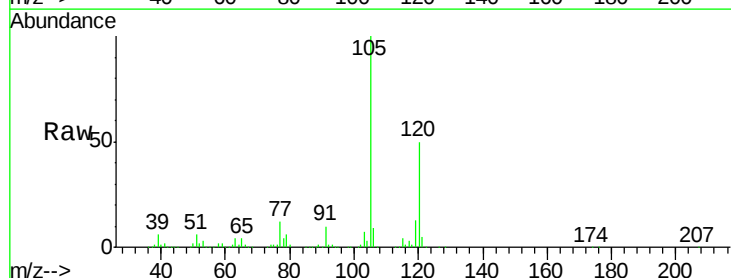
Acq: 22 Jan 2019 12:04

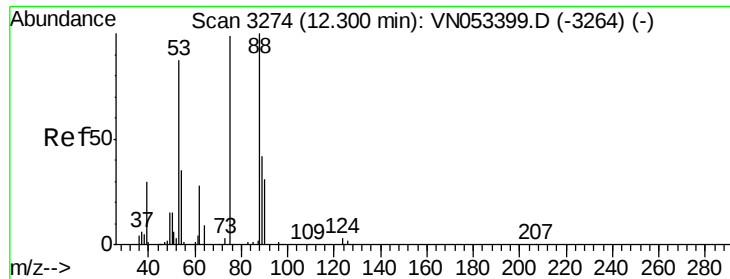
Tgt Ion: 105 Resp: 626284

Ion Ratio Lower Upper

105 100

120 50.3 24.9 74.6





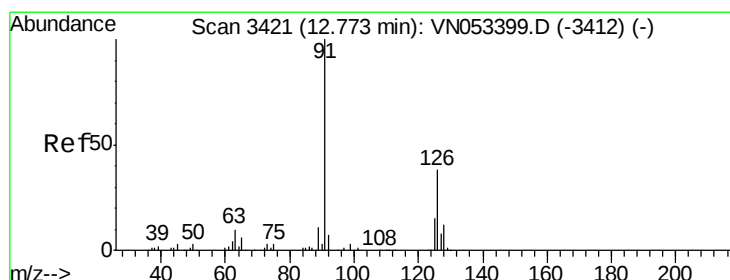
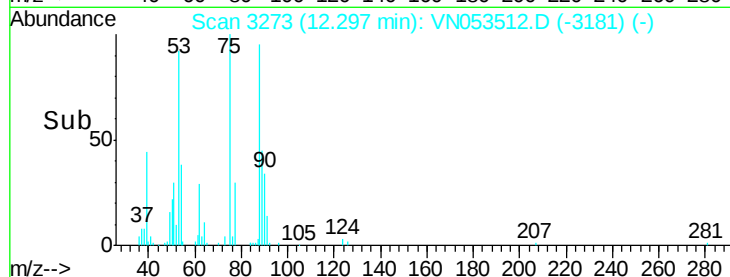
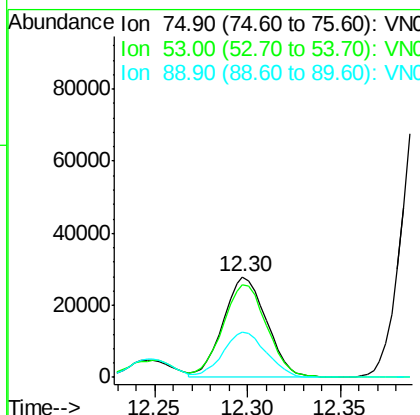
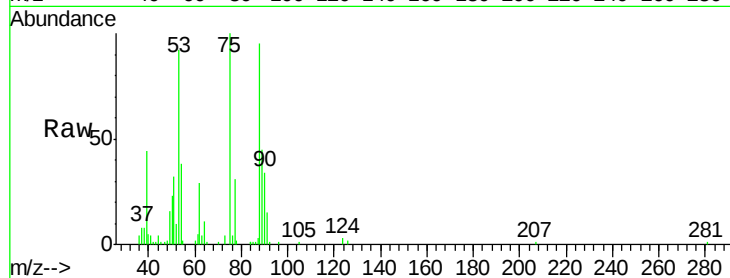
#81
trans-1,4-Dichloro-2-butene
Concen: 20.247 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampled :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.0	69.8	104.6
89	45.1	35.6	53.4

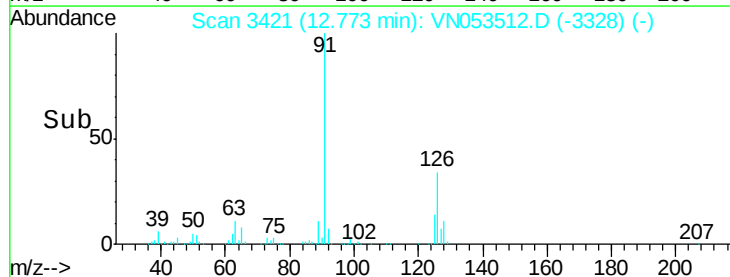
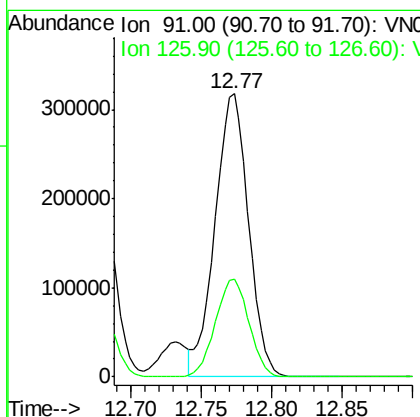
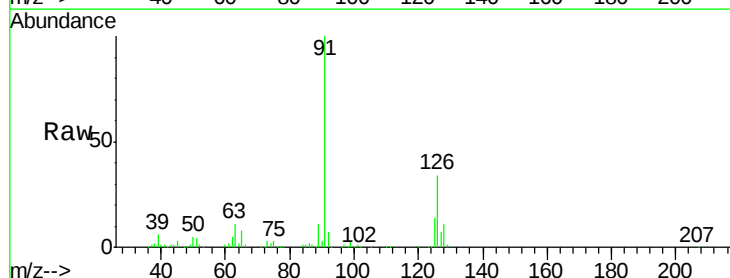
Manual Integrations
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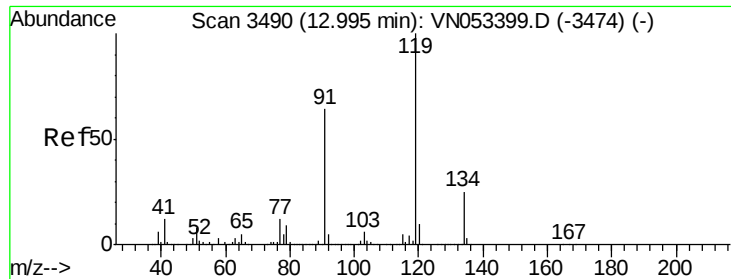
MMDadoda
1/23/2019 11:00:39 AM



#82
4-Chlorotoluene
Concen: 22.048 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.6	52.9





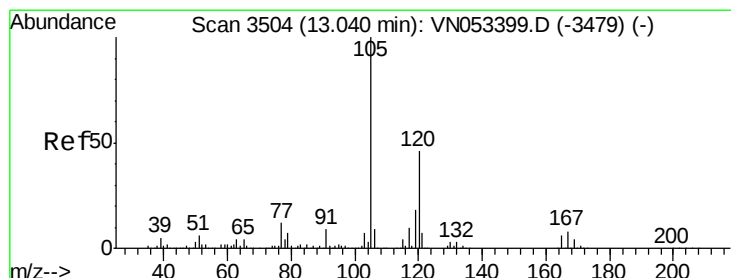
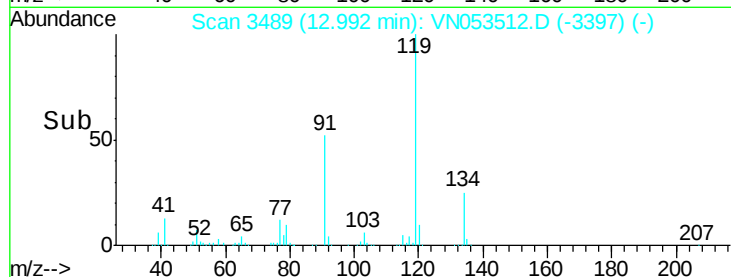
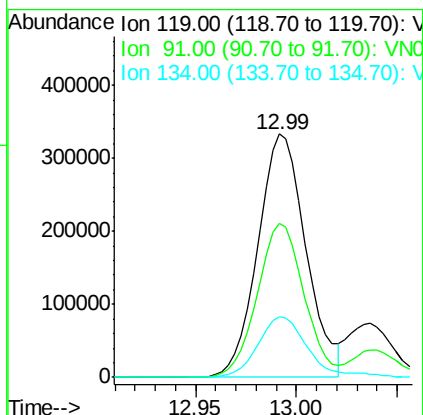
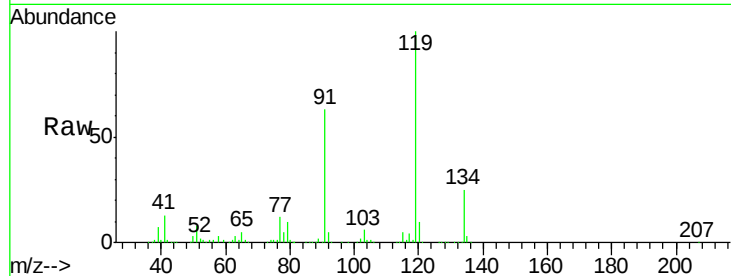
#83
 tert-Butylbenzene
 Concen: 22.555 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	553967		
91	61.6		31.3	93.8
134	25.7		12.9	38.7

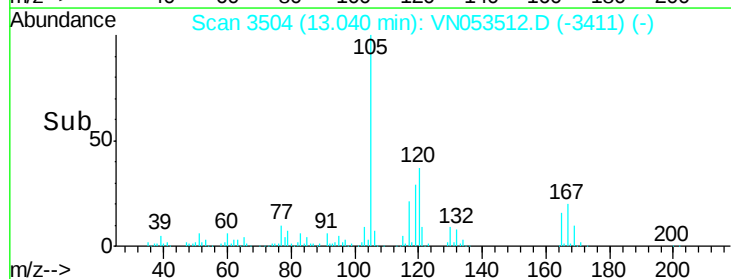
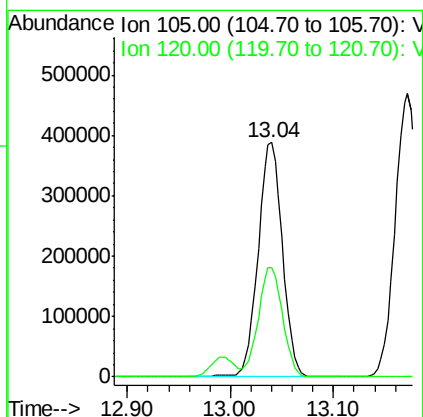
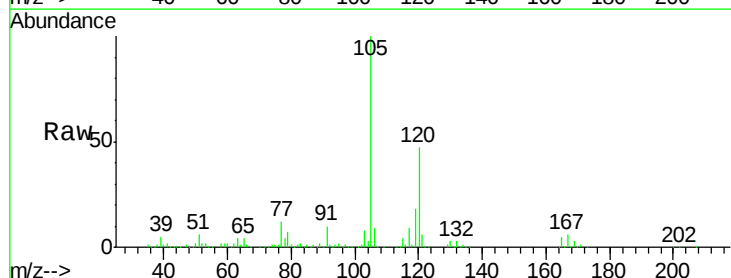
Manual Integrations
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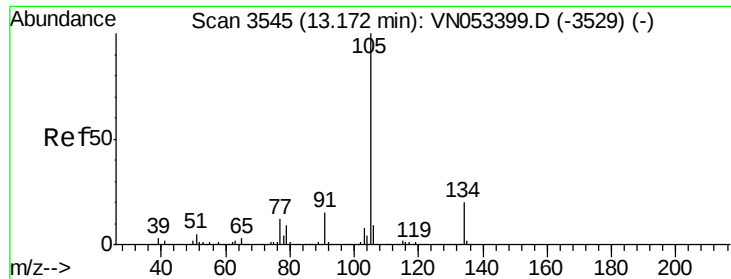
MMDadoda
 1/23/2019 11:00:39 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.509 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	631130		
120	46.6		23.0	69.0





#85

sec-Butylbenzene

Concen: 22.219 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

VN0122MBS01

Tot Ion:105 Resp: 748447

Ion Ratio Lower Upper

105 100

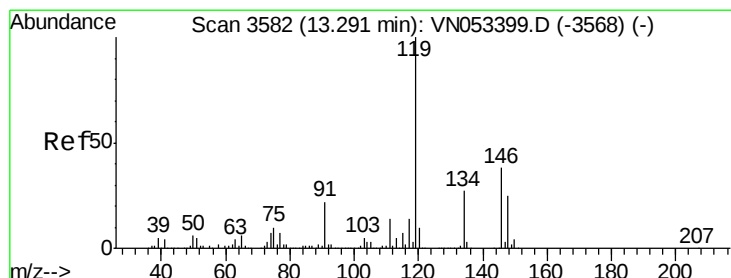
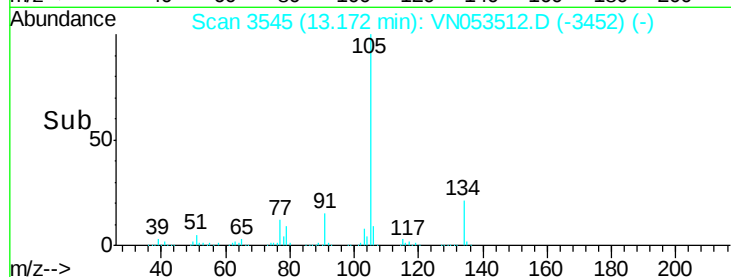
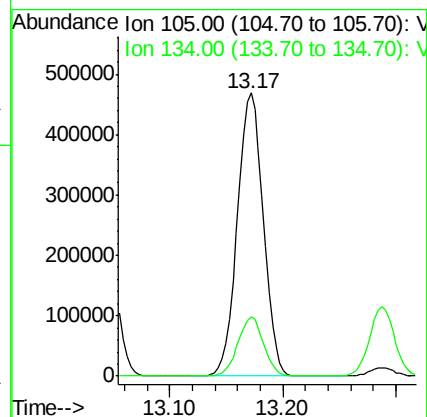
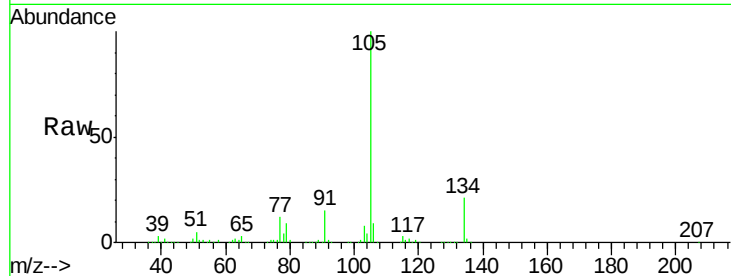
134 20.5 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 22.381 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

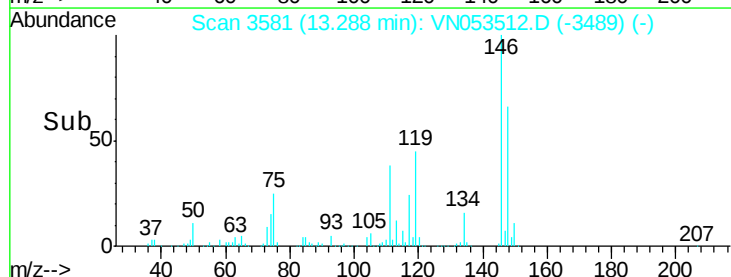
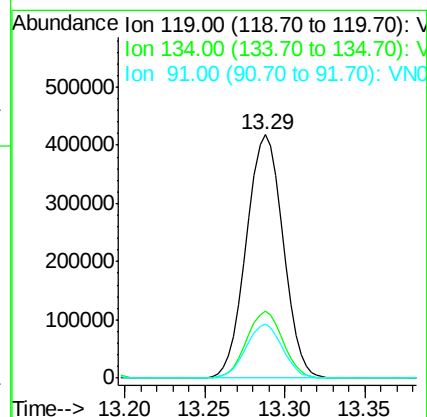
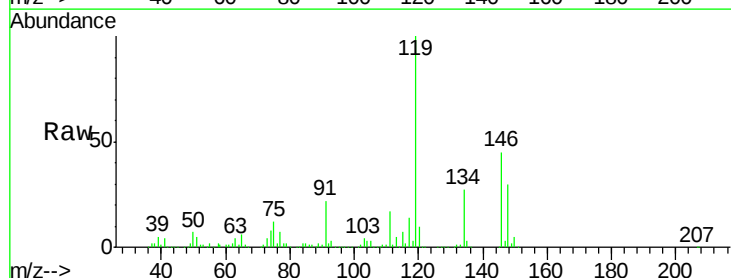
Tgt Ion:119 Resp: 654602

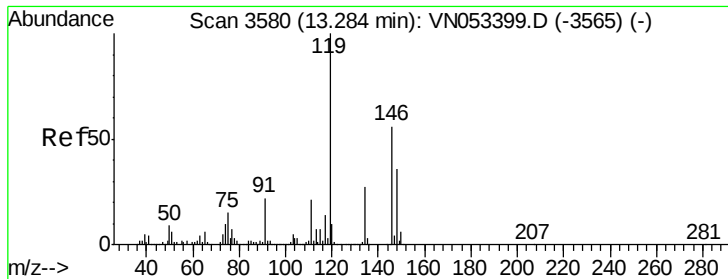
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 22.0 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 21.888 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

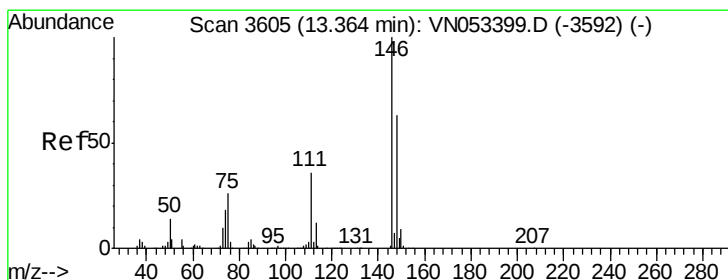
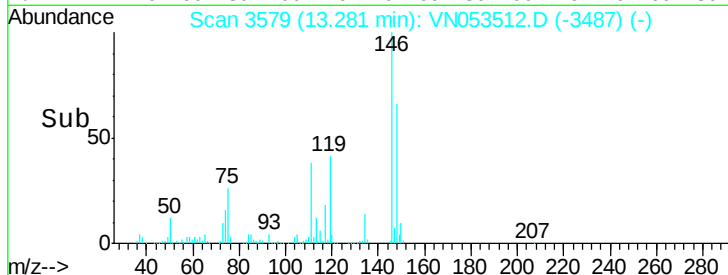
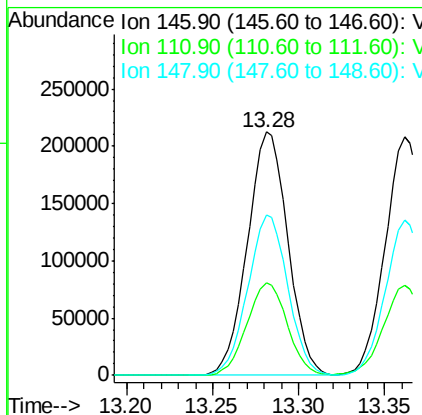
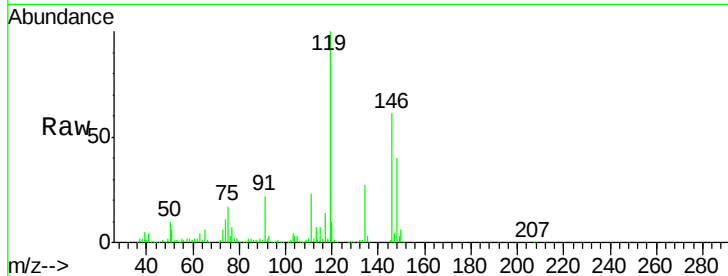
ClientSampleId :

VN0122MBS01

Tot Ion:	146	Resp:	346749
Ion Ratio	Lower	Upper	
146	100		
111	37.9	18.8	56.3
148	65.1	32.0	96.2

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 21.487 ug/l

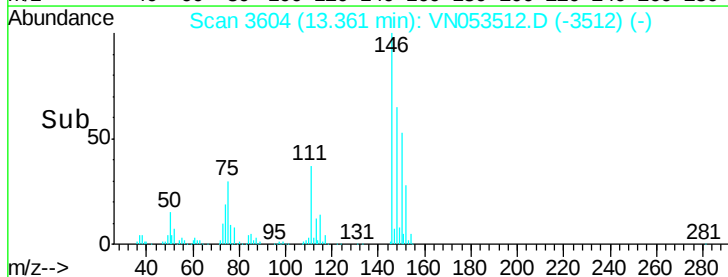
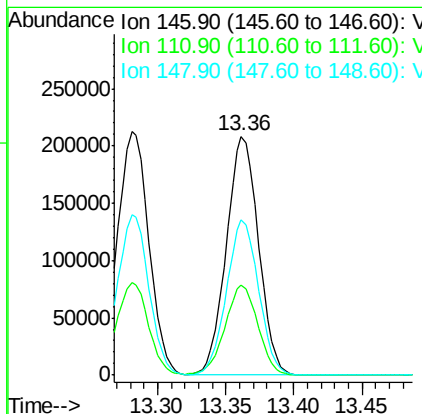
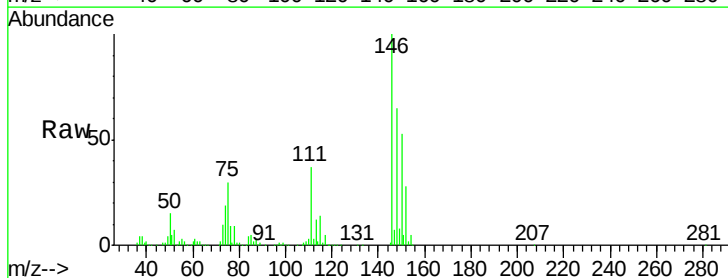
RT: 13.36 min Scan# 3604

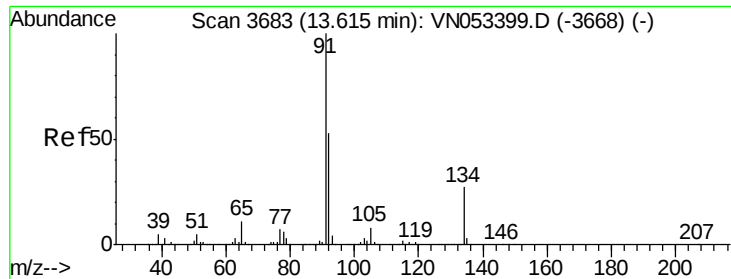
Delta R.T. -0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion:	146	Resp:	341447
Ion Ratio	Lower	Upper	
146	100		
111	38.5	18.6	55.8
148	64.9	32.4	97.0





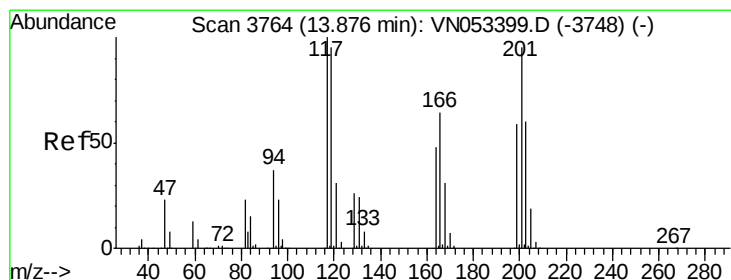
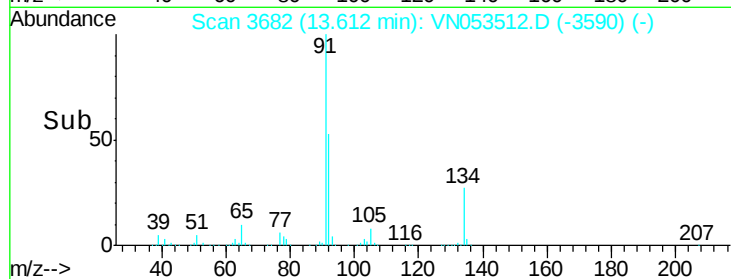
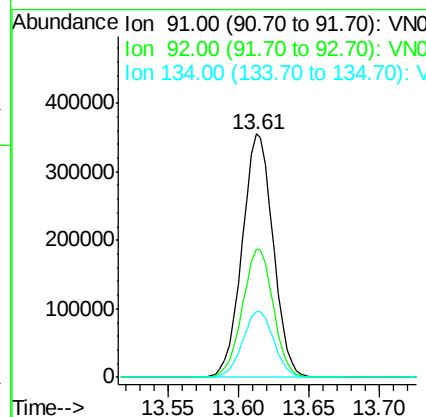
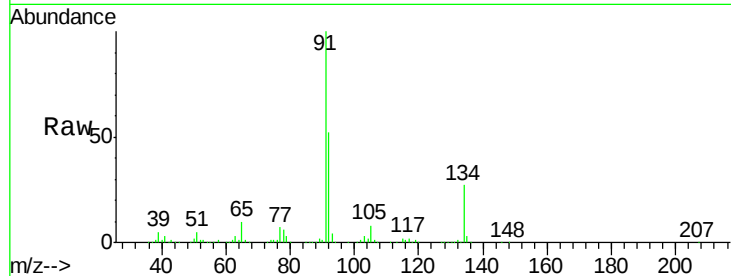
#89
n-Butylbenzene
Concen: 21.927 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :
VN0122MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.3	78.8
134	27.4	13.5	40.5

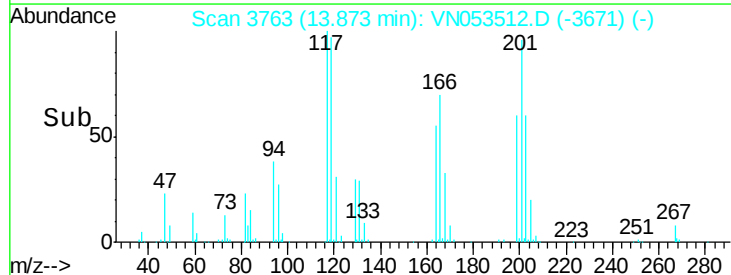
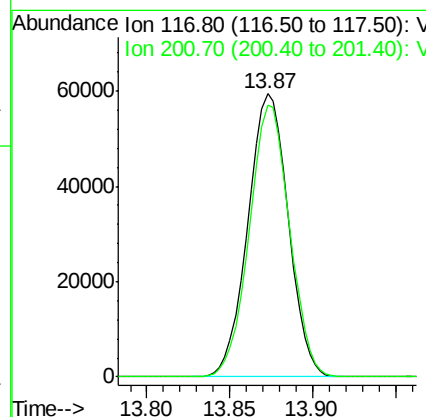
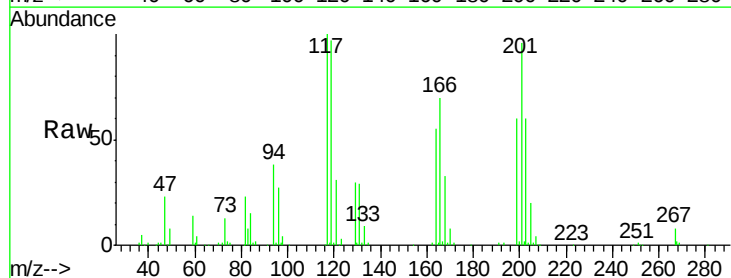
Manual Integrations
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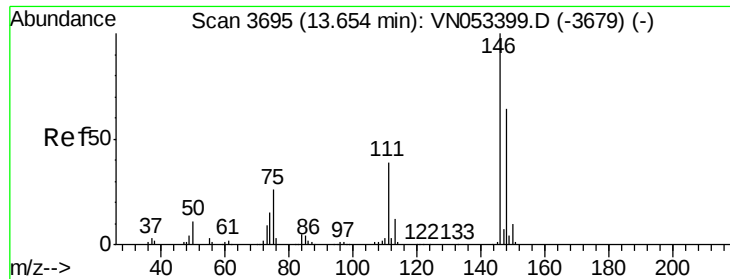
MMDadoda
1/23/2019 11:00:39 AM



#90
Hexachloroethane
Concen: 21.959 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053512.D
Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.4	46.8	140.4





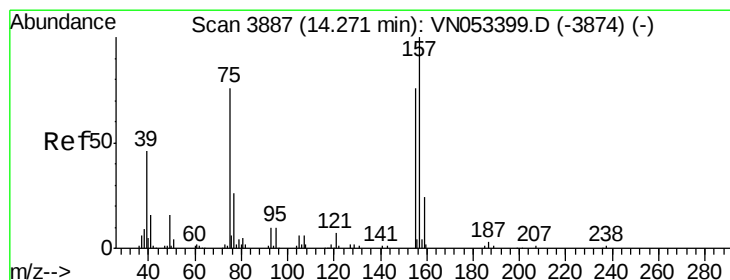
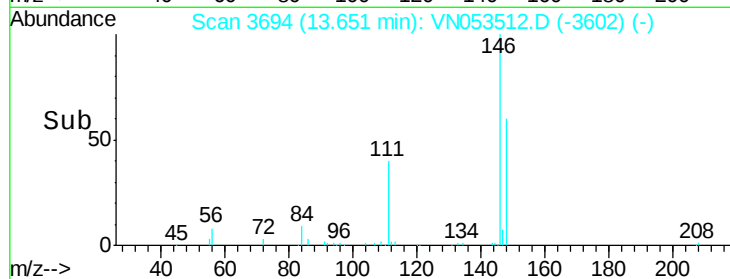
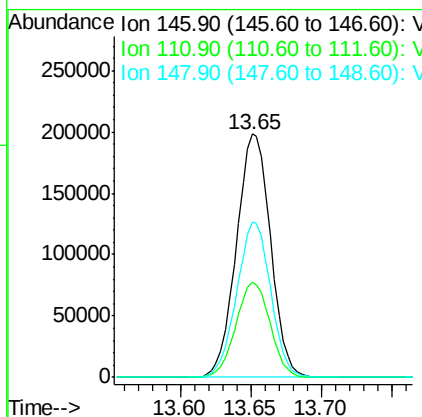
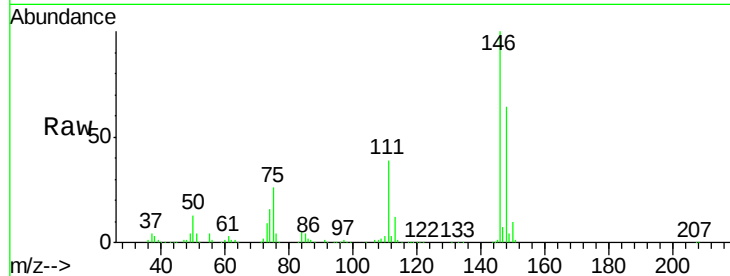
#91
 1,2-Dichlorobenzene
 Concen: 23.055 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.5	58.5
148	63.7	31.9	95.9

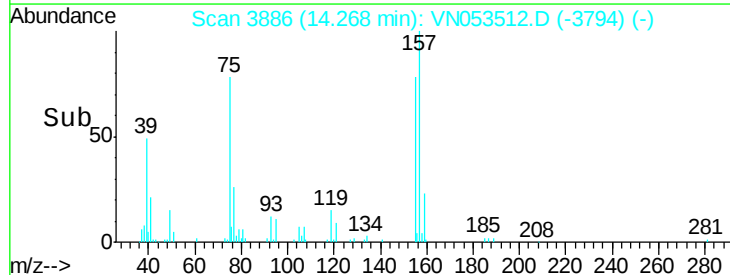
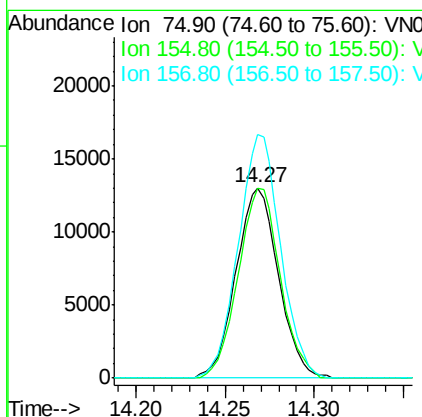
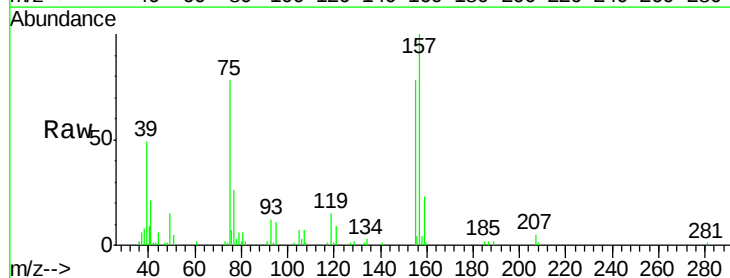
Manual Integrations
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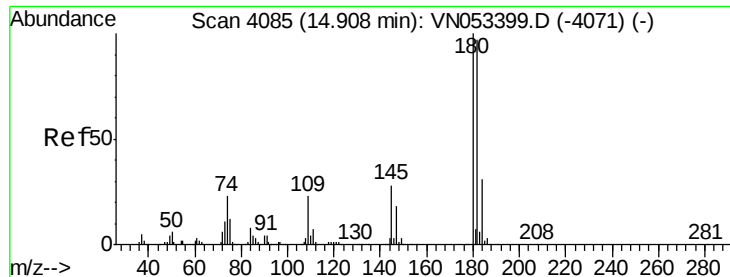
MMDadoda
 1/23/2019 11:00:39 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.772 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.8	48.9	146.7
157	127.7	63.7	191.3





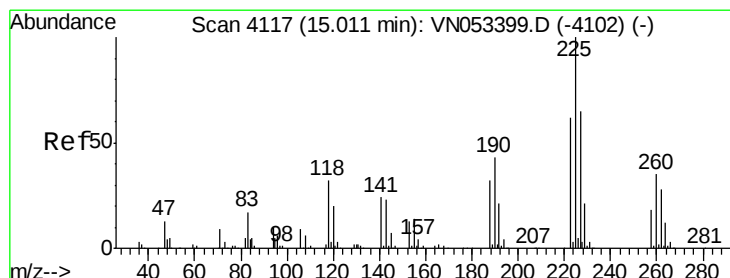
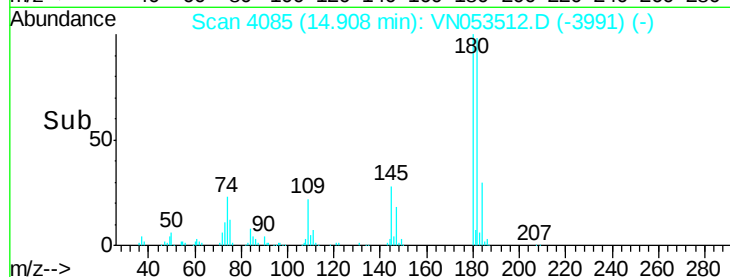
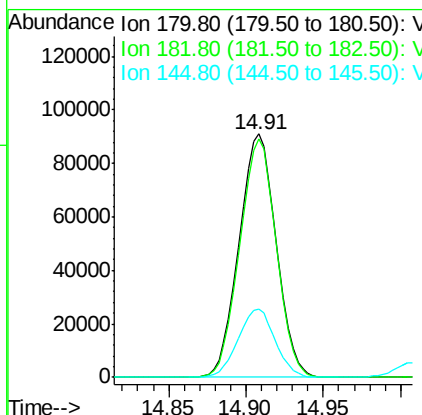
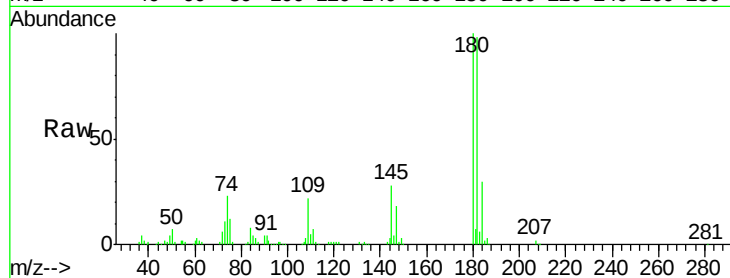
#93
 1,2,4-Trichlorobenzene
 Concen: 25.107 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0122MBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.3
145	27.9	13.9	41.6

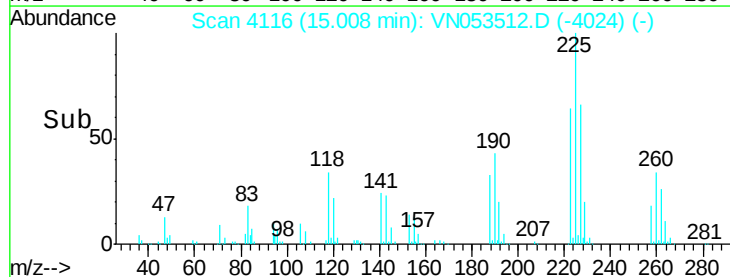
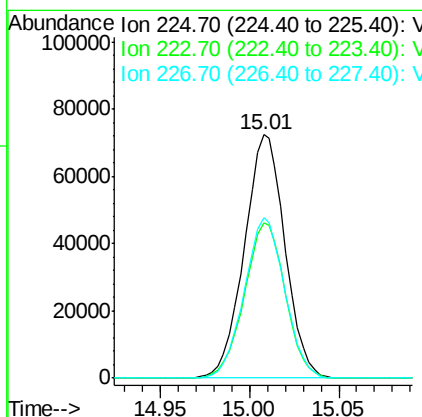
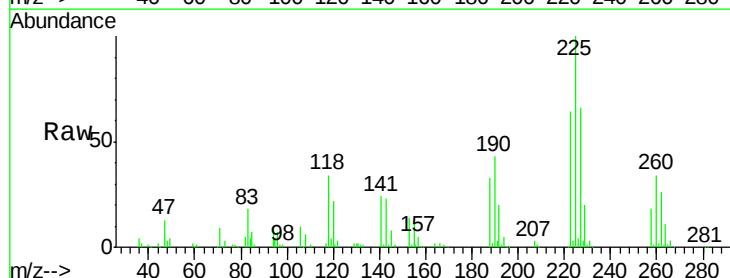
Manual Integrations
 APPROVED

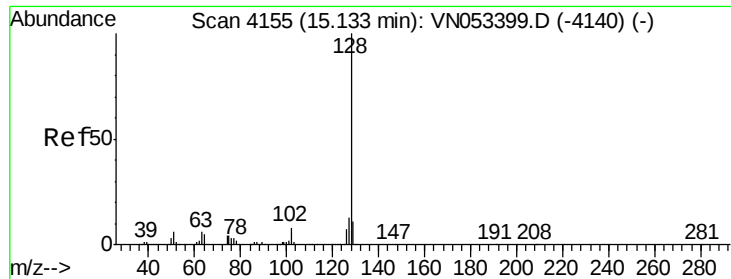
MMDadoda
 1/23/2019 11:00:39 AM



#94
 Hexachlorobutadiene
 Concen: 25.340 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN053512.D
 Acq: 22 Jan 2019 12:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.1	93.2
227	65.5	32.0	96.2





#95

Naphthalene

Concen: 23.411 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Instrument :

MSVOA_N

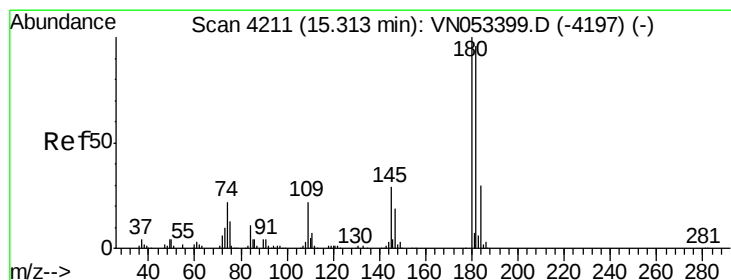
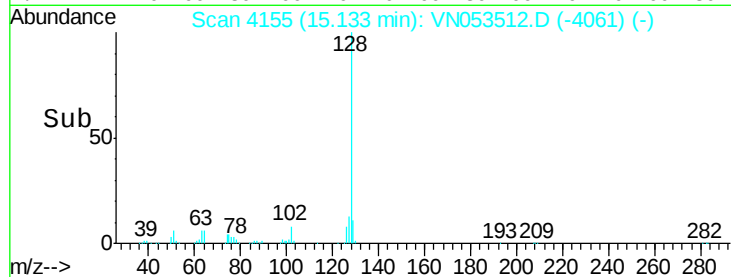
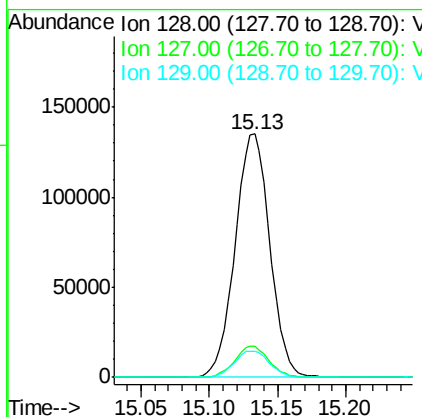
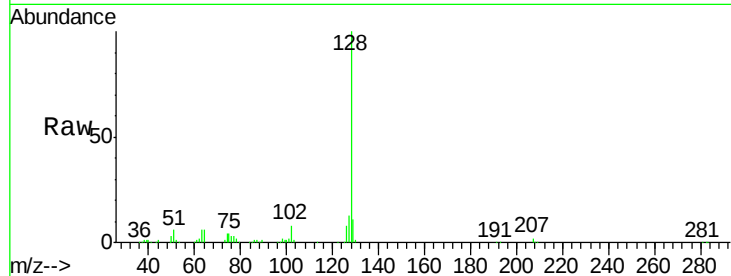
ClientSampleId :

VN0122MBS01

Tot Ion:	128	Resp:	238481
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.3	15.5
129	11.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
1/23/2019 11:00:39 AM



#96

1,2,3-Trichlorobenzene

Concen: 25.433 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053512.D

Acq: 22 Jan 2019 12:04

Tgt Ion:	180	Resp:	109882
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.9	143.8
145	29.3	14.7	44.1

