

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012119\
 Data File : VN053502.D
 Acq On : 21 Jan 2019 13:11
 Operator : JC/SP
 Sample : VN0121WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/22/2019 9:47:36 AM

Quant Time: Jan 22 04:50:10 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	731463	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1094364	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	982002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	486788	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	366809	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	
35) Dibromofluoromethane	7.59	113	327570	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
50) Toluene-d8	10.09	98	1324050	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	455867	49.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	112343	19.103	ug/l	99
3) Chloromethane	2.06	50	151361	18.001	ug/l	98
4) Vinyl Chloride	2.19	62	152564	18.823	ug/l	98
5) Bromomethane	2.57	94	108599	19.527	ug/l	98
6) Chloroethane	2.71	64	93472	19.074	ug/l	96
7) Trichlorofluoromethane	3.03	101	212259	20.021	ug/l	99
8) Diethyl Ether	3.41	74	78047	19.601	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	132150	19.682	ug/l	99
10) Methyl Iodide	3.96	142	190604	18.577	ug/l	99
11) Tert butyl alcohol	4.77	59	38426	108.619	ug/l	97
12) 1,1-Dichloroethene	3.74	96	126626	19.444	ug/l	98
13) Acrolein	3.61	56	57862	98.934	ug/l	100
14) Allyl chloride	4.32	41	194128	18.352	ug/l	94
15) Acrylonitrile	4.99	53	233324	100.217	ug/l	100
16) Acetone	3.81	43	166807	98.339	ug/l	98
17) Carbon Disulfide	4.06	76	355778	18.066	ug/l	98
18) Methyl Acetate	4.32	43	117355	20.535	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	347189	20.065	ug/l	99
20) Methylene Chloride	4.55	84	148506	19.176	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	139256	20.001	ug/l	99
22) Diisopropyl ether	5.95	45	448084	20.291	ug/l	99
23) Vinyl Acetate	5.89	43	1374099	101.226	ug/l	99
24) 1,1-Dichloroethane	5.85	63	259656	19.890	ug/l	100
25) 2-Butanone	6.83	43	257357	98.456	ug/l	98
26) 2,2-Dichloropropane	6.83	77	188040	19.078	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	160598	20.172	ug/l	98
28) Bromochloromethane	7.19	49	116442	20.247	ug/l	99
29) Tetrahydrofuran	7.21	42	172077	101.122	ug/l	100
30) Chloroform	7.37	83	258051	20.288	ug/l	99
31) Cyclohexane	7.65	56	241692	18.885	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	212547	19.699	ug/l	99
36) 1,1-Dichloropropene	7.79	75	198080	19.875	ug/l	99
37) Ethyl Acetate	6.92	43	116456	20.310	ug/l	99
38) Carbon Tetrachloride	7.77	117	186355	19.750	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	233236	18.934	ug/l	98
40) Benzene	8.04	78	605120	19.980	ug/l	99
41) Methacrylonitrile	7.17	41	60138	18.082	ug/l #	92
42) 1,2-Dichloroethane	8.12	62	181343	20.553	ug/l	100
43) Isopropyl Acetate	8.16	43	205940	19.974	ug/l	100
44) Trichloroethene	8.83	130	170417	20.290	ug/l	100
45) 1,2-Dichloropropane	9.12	63	160192	19.969	ug/l	100
46) Dibromomethane	9.21	93	91970	19.955	ug/l	99
47) Bromodichloromethane	9.40	83	190959	19.702	ug/l	96
48) Methyl methacrylate	9.20	41	103987	19.533	ug/l	99
49) 1,4-Dioxane	9.20	88	21942	422.035	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	563309	100.083	ug/l	100
52) Toluene	10.15	92	374717	19.929	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	190897	19.431	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	226619	19.678	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	133687	20.623	ug/l	99
56) Ethyl methacrylate	10.43	69	164475	19.200	ug/l	100
57) 1,3-Dichloropropane	10.71	76	228123	20.343	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	455529	100.447	ug/l	99
59) 2-Hexanone	10.75	43	377432	95.526	ug/l	99
60) Dibromochloromethane	10.90	129	149040	20.271	ug/l	99
61) 1,2-Dibromoethane	11.00	107	130094	19.843	ug/l	99
64) Tetrachloroethene	10.63	164	189288	20.454	ug/l	98
65) Chlorobenzene	11.43	112	417087	20.066	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	145456	20.116	ug/l	99
67) Ethyl Benzene	11.51	91	701362	19.799	ug/l	100
68) m/p-Xylenes	11.62	106	541095	40.457	ug/l	100
69) o-Xylene	11.95	106	260085	20.013	ug/l	100
70) Styrene	11.96	104	432191	20.491	ug/l	100
71) Bromoform	12.13	173	101529	20.395	ug/l #	98
73) Isopropylbenzene	12.25	105	690668	19.375	ug/l	99
74) N-amyl acetate	12.07	43	182501	19.205	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	141817	18.969	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	134101m	20.904	ug/l	
77) Bromobenzene	12.53	156	181779	19.352	ug/l	99
78) n-propylbenzene	12.59	91	798949	19.525	ug/l	99
79) 2-Chlorotoluene	12.67	91	475962	19.624	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	577207	19.901	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	42306	18.378	ug/l	93
82) 4-Chlorotoluene	12.77	91	486727	19.678	ug/l	100
83) tert-Butylbenzene	12.99	119	514904	20.100	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	589952	20.173	ug/l	100
85) sec-Butylbenzene	13.17	105	695952	19.809	ug/l	100
86) p-Isopropyltoluene	13.29	119	608803	19.958	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	325131	19.677	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	322982	19.487	ug/l	99
89) n-Butylbenzene	13.61	91	504160	19.389	ug/l	100
90) Hexachloroethane	13.87	117	90808	18.981	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	315267	20.739	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	21024	22.178	ug/l	96

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Instrument :
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VN0121WBSD01

Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	139782	22.454	ug/l	100
94) Hexachlorobutadiene	15.01	225	103381	21.801	ug/l	99
95) Naphthalene	15.13	128	240040	22.730	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	100727	22.825	ug/l	99

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

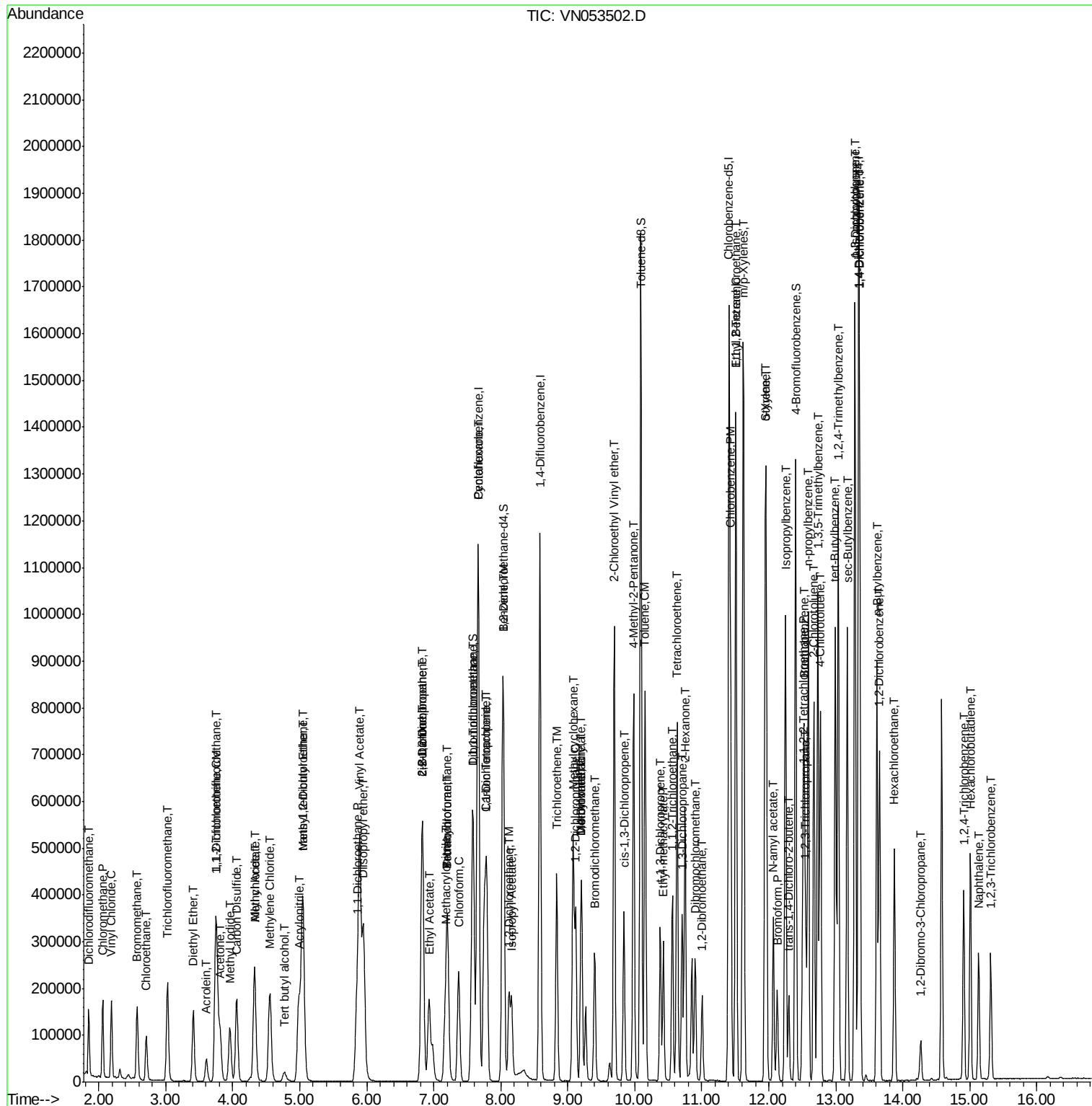
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012119\
Data File : VN053502.D
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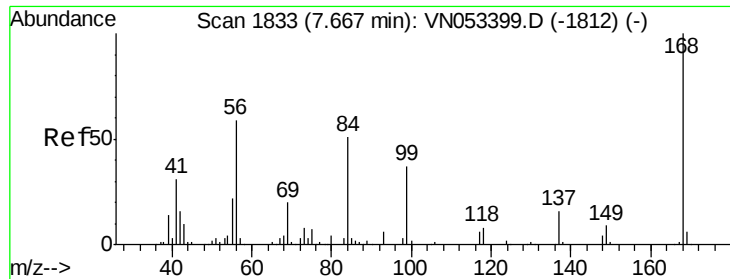
Instrument :
MSVOA_N
Client Sample Id :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion:168 Resp: 731463

Ion Ratio Lower Upper

168 100

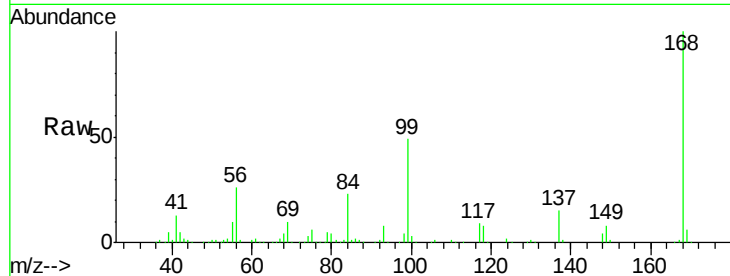
99 48.8 39.1 58.7

Manual Integrations

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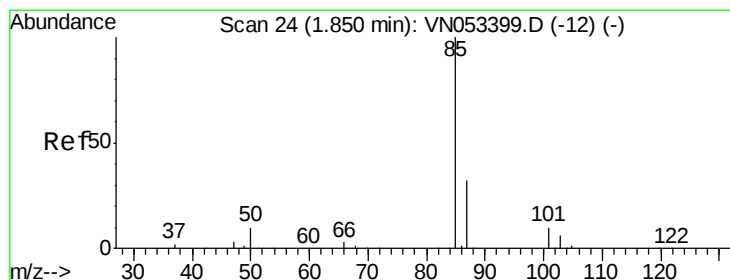
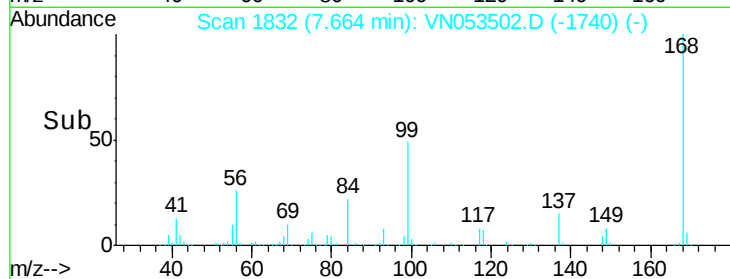
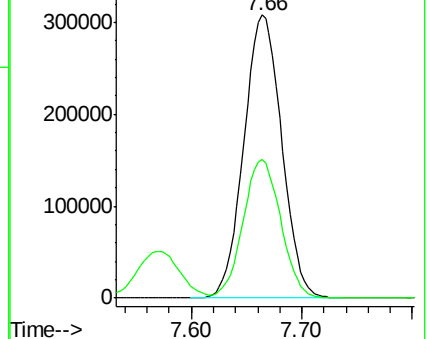
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.103 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053502.D

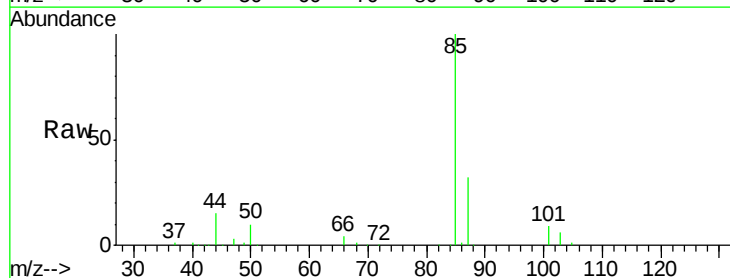
Acq: 21 Jan 2019 13:11

Tgt Ion: 85 Resp: 112343

Ion Ratio Lower Upper

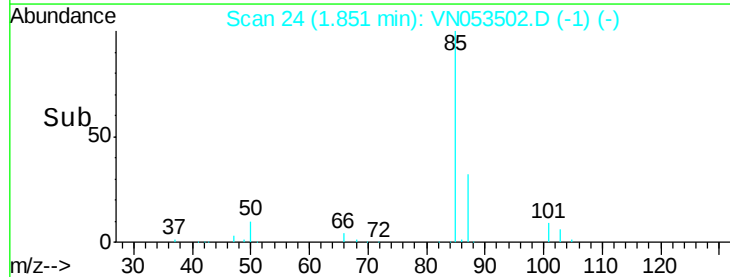
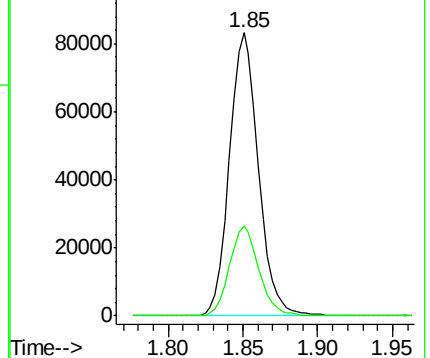
85 100

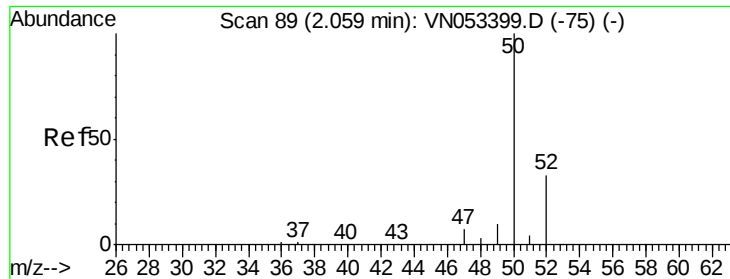
87 31.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 18.001 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 50 Resp: 151361

Ion Ratio Lower Upper

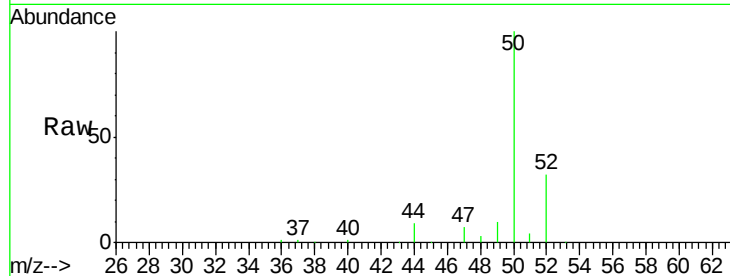
50 100

52 32.4 26.6 40.0

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Abundance Ion 49.90 (49.60 to 50.60): VN053399.D (-75) (-)

Ion 51.90 (51.60 to 52.60): VN053399.D (-75) (-)

2.06

100000

80000

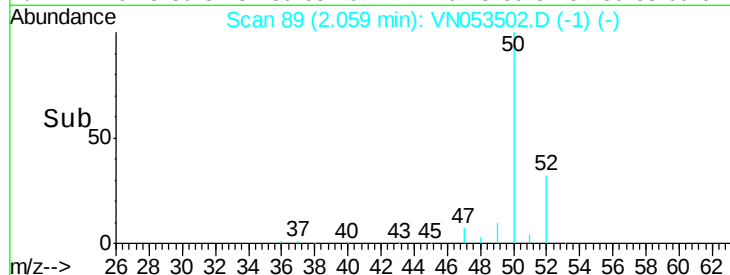
60000

40000

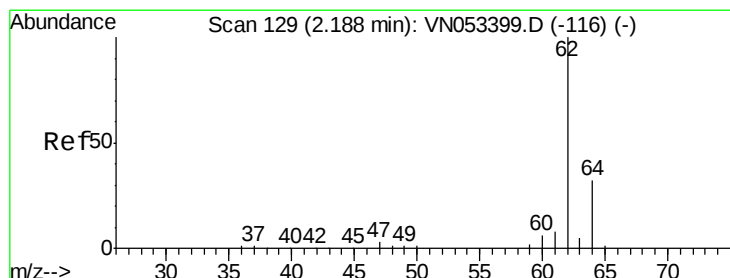
20000

0

Time-->



Time-->



#4

Vinyl Chloride

Concen: 18.823 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053502.D

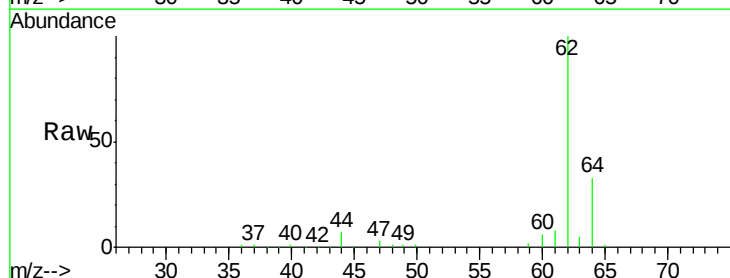
Acq: 21 Jan 2019 13:11

Tgt Ion: 62 Resp: 152564

Ion Ratio Lower Upper

62 100

64 32.9 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN053399.D (-116) (-)

Ion 63.90 (63.60 to 64.60): VN053399.D (-116) (-)

2.19

100000

80000

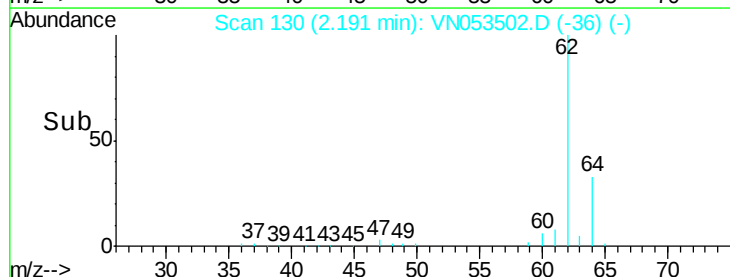
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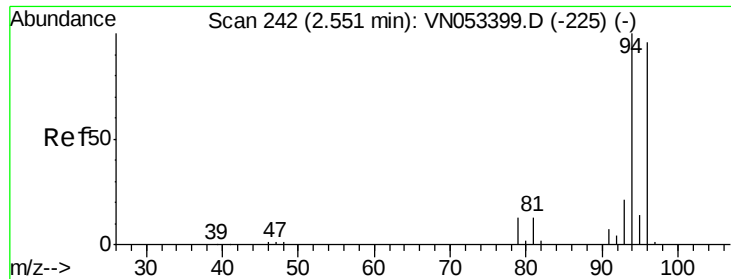
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Time-->



Time-->



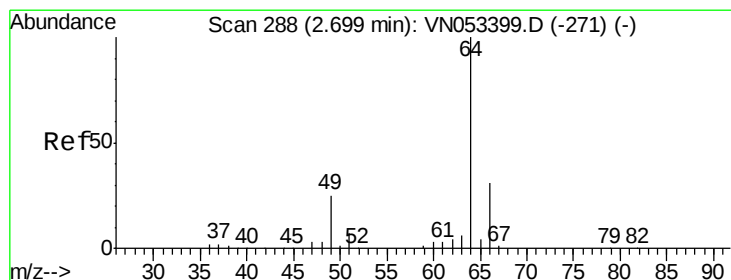
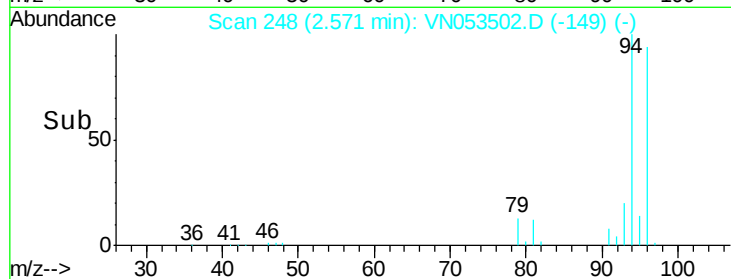
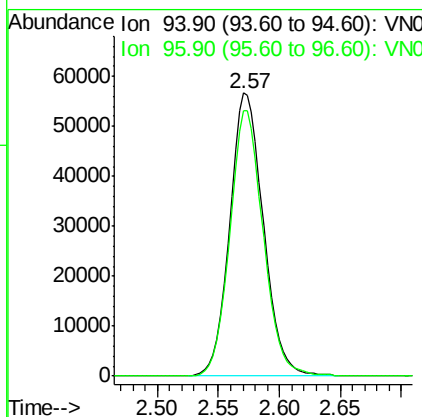
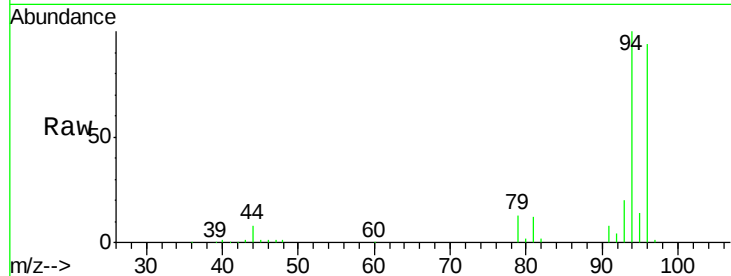
#5
Bromomethane
Concen: 19.527 ug/l
RT: 2.57 min Scan# 248
Delta R.T. 0.02 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

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Tot Ion	94	Resp	108599
Ion Ratio	100	Lower	Upper
96	93.8	76.8	115.2

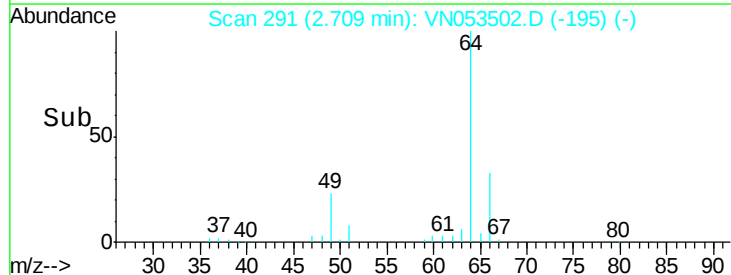
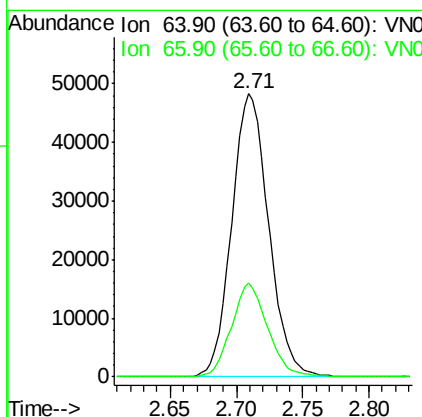
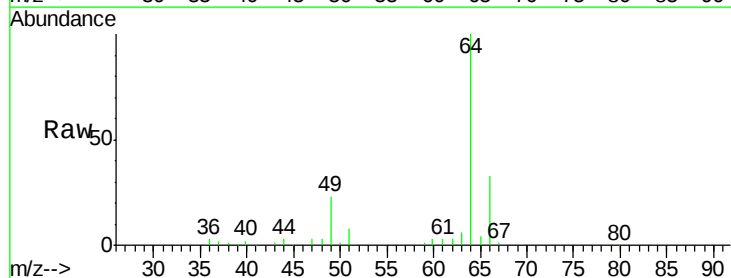
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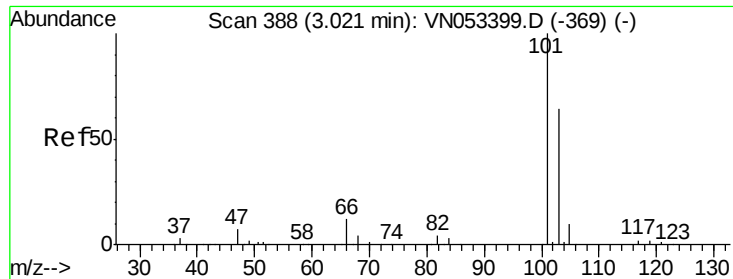
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#6
Chloroethane
Concen: 19.074 ug/l
RT: 2.71 min Scan# 291
Delta R.T. 0.01 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	64	Resp	93472
Ion Ratio	100	Lower	Upper
66	33.4	25.1	37.7





#7

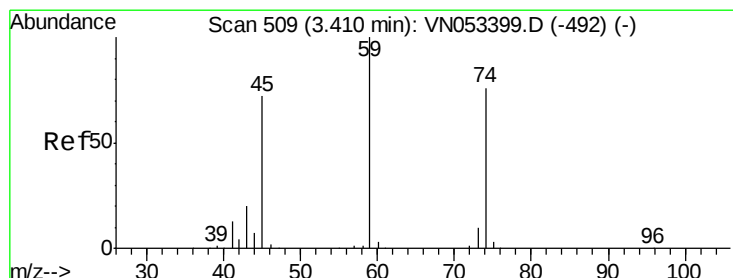
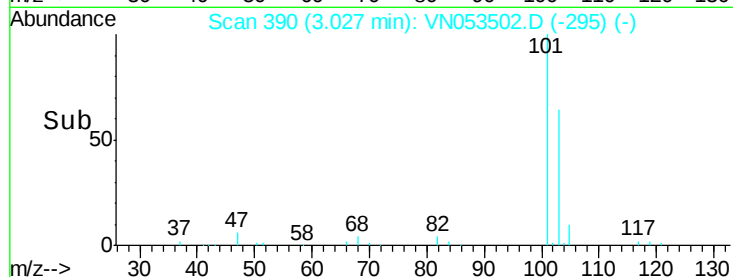
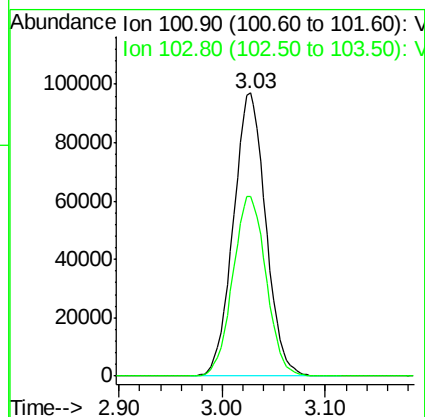
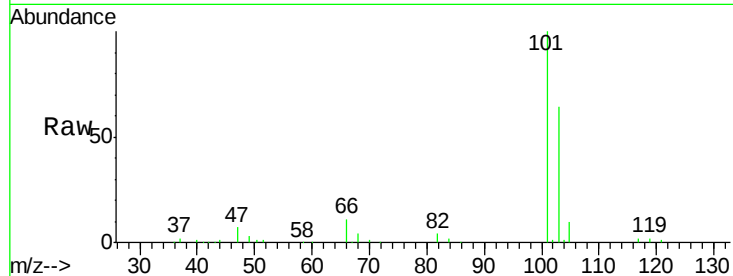
Trichlorofluoromethane
Concen: 20.021 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.01 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion:101 Resp: 212259
Ion Ratio Lower Upper
101 100
103 63.5 51.6 77.4

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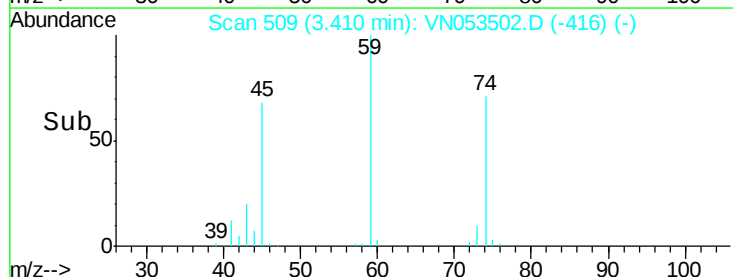
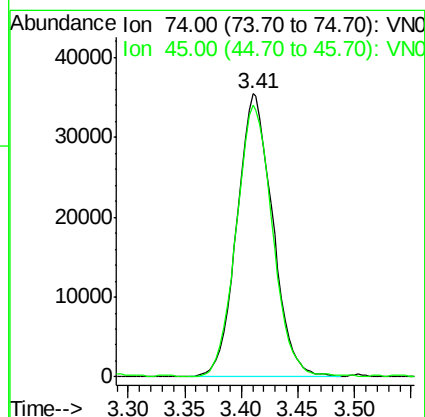
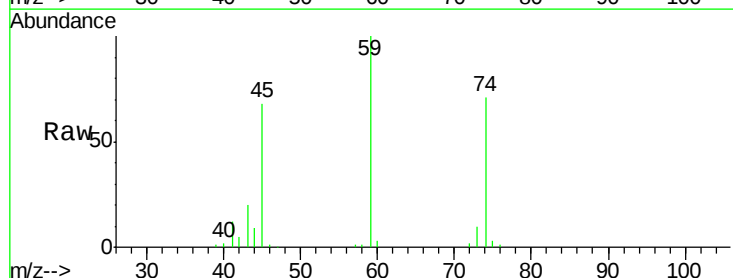
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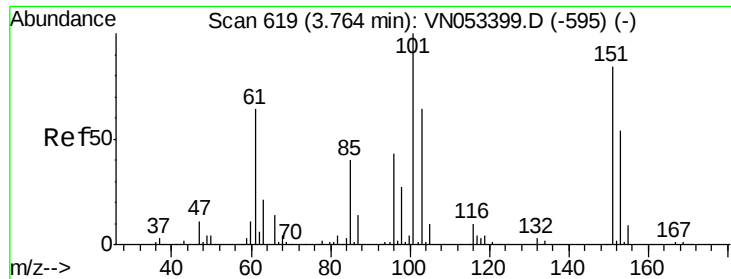


#8

Diethyl Ether
Concen: 19.601 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion: 74 Resp: 78047
Ion Ratio Lower Upper
74 100
45 96.8 47.9 143.7





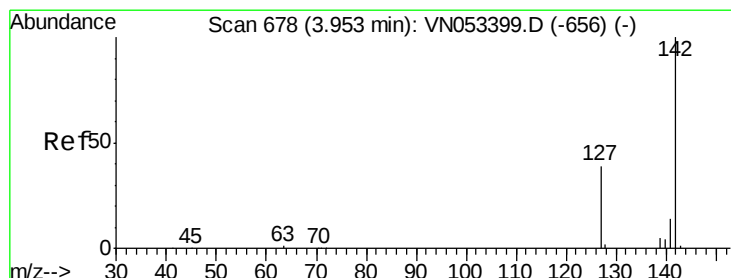
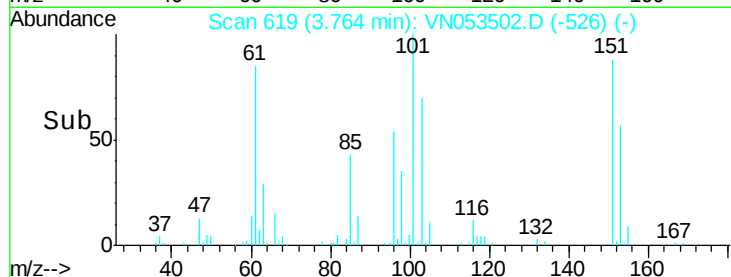
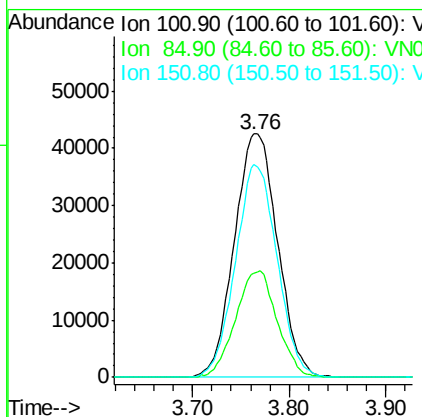
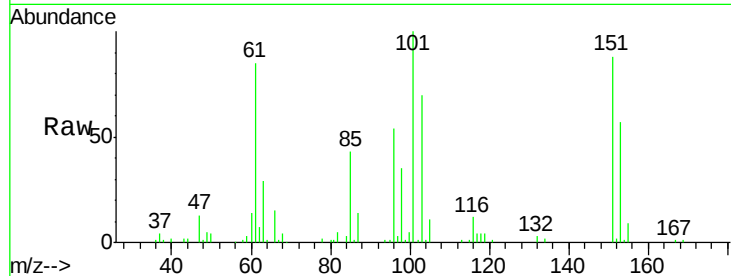
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.682 ug/l
 RT: 3.76 min Scan# 619
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	132150		
85	42.1		32.8	49.2
151	84.4		66.9	100.3

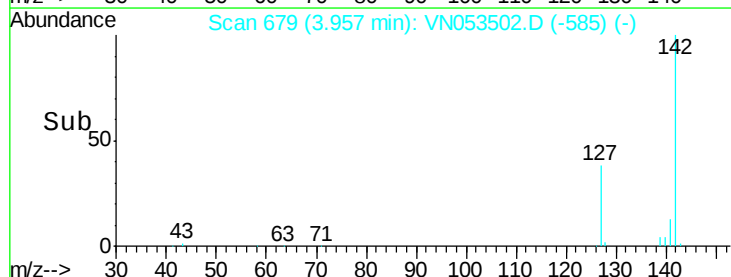
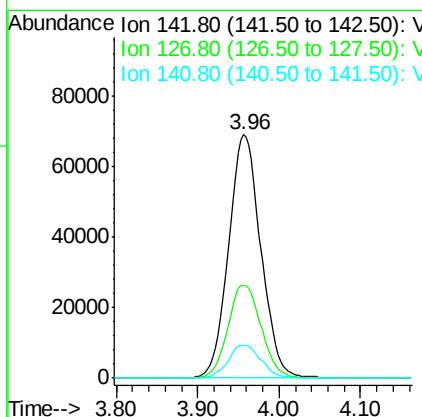
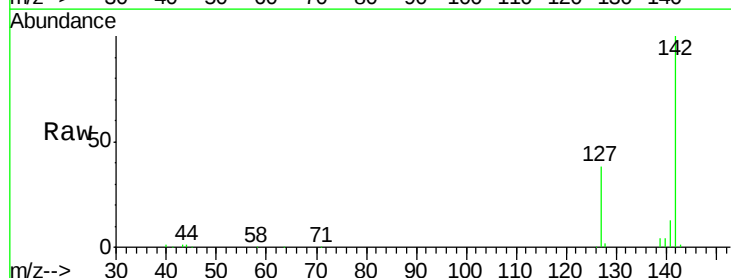
Manual Integrations
 APPROVED

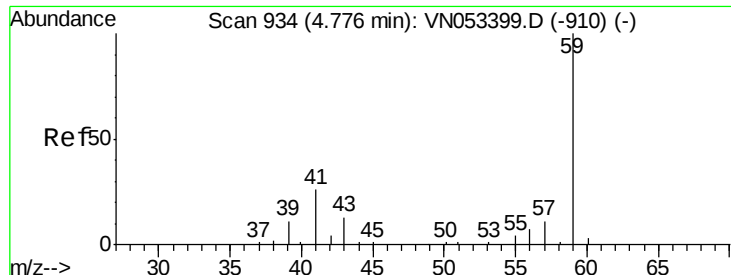
MMDadoda
 1/22/2019 9:47:36 AM



#10
 Methyl Iodide
 Concen: 18.577 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	190604		
127	39.4		31.0	46.4
141	13.9		11.1	16.7





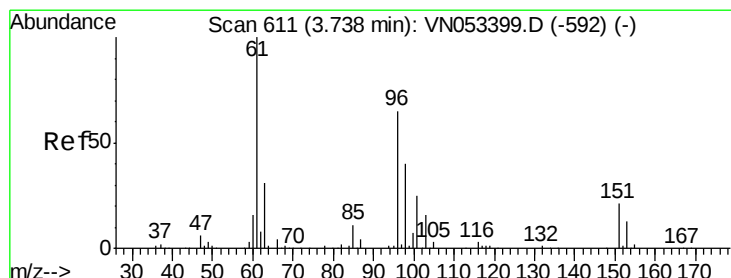
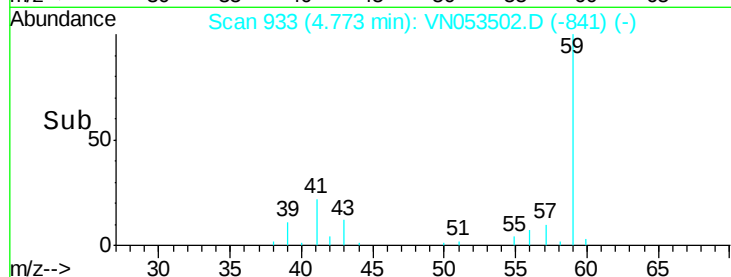
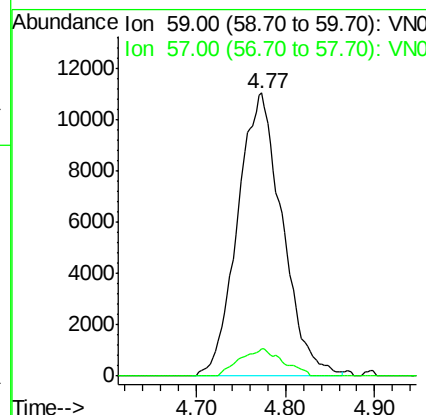
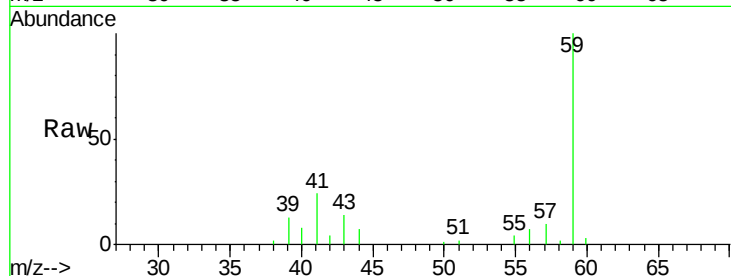
#11
Tert butyl alcohol
Concen: 108.619 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion: 59 Resp: 38426
Ion Ratio Lower Upper
59 100
57 9.2 8.2 12.4

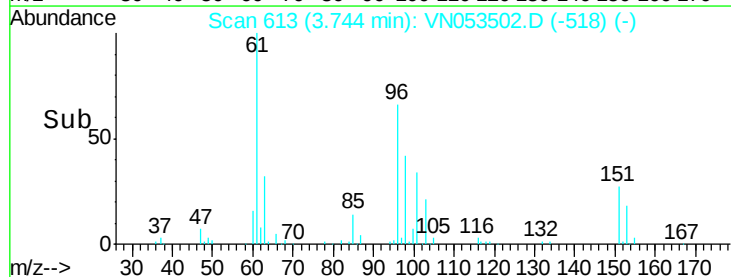
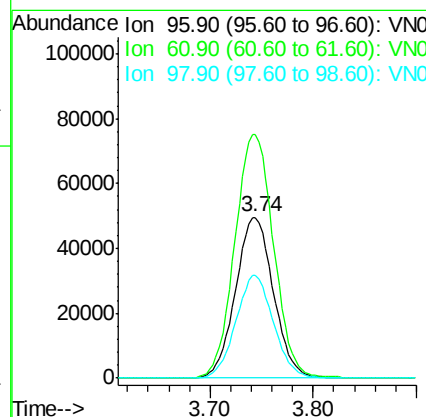
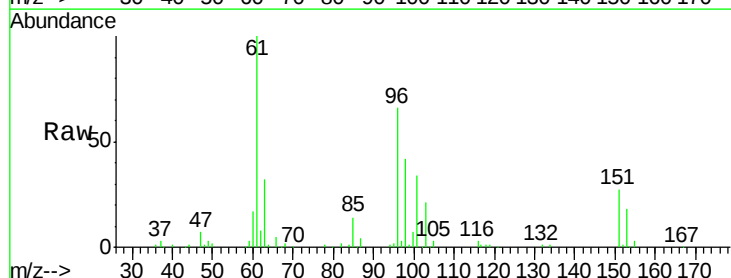
Manual Integrations
APPROVED

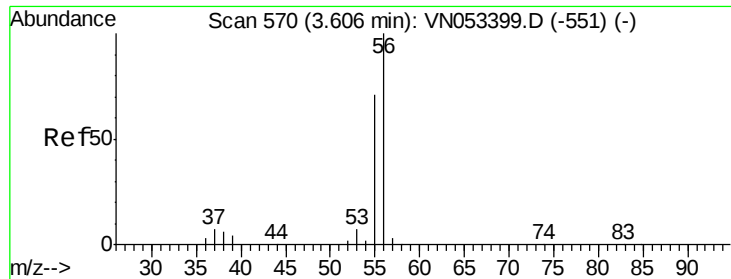
MMDadoda
1/22/2019 9:47:36 AM



#12
1,1-Dichloroethene
Concen: 19.444 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.01 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion: 96 Resp: 126626
Ion Ratio Lower Upper
96 100
61 151.4 122.9 184.3
98 64.3 49.4 74.0





#13

Acrolein

Concen: 98.934 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 56 Resp: 57862

Ion Ratio Lower Upper

56 100

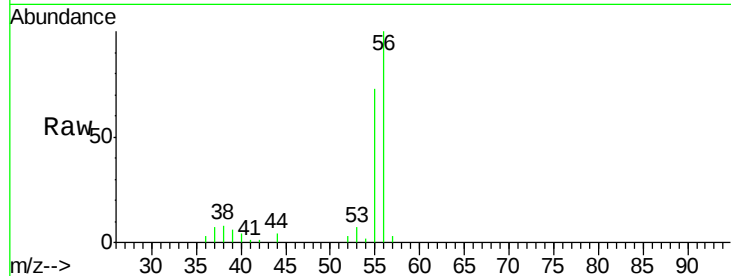
55 71.6 57.4 86.0

Manual Integrations

APPROVED

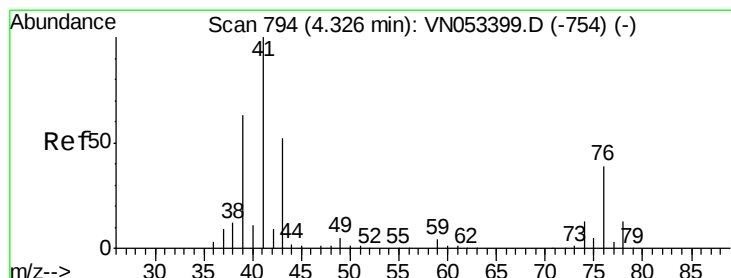
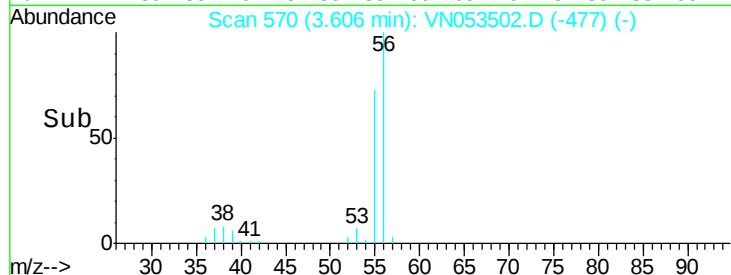
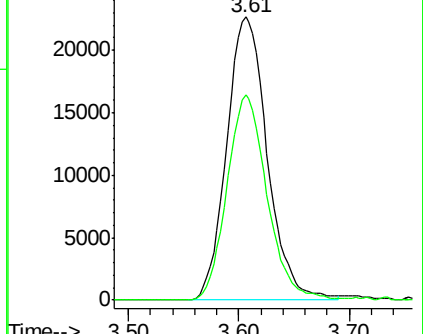
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.352 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

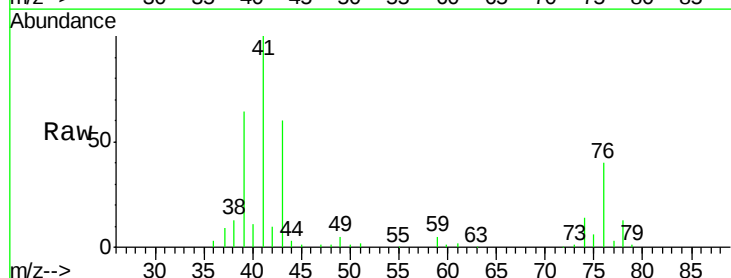
Tgt Ion: 41 Resp: 194128

Ion Ratio Lower Upper

41 100

39 66.0 48.9 73.3

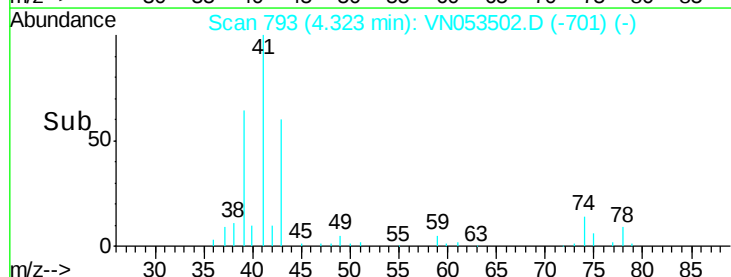
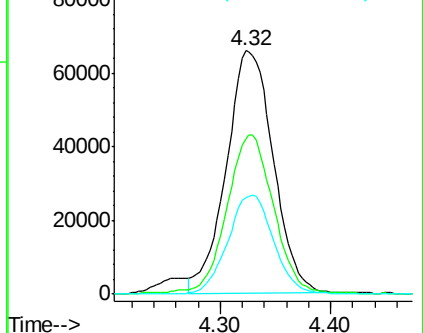
76 39.8 29.4 44.2

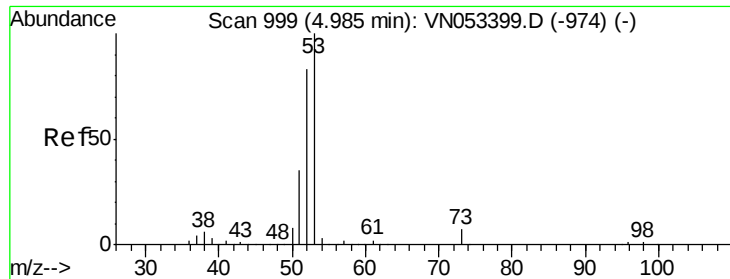


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 100.217 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

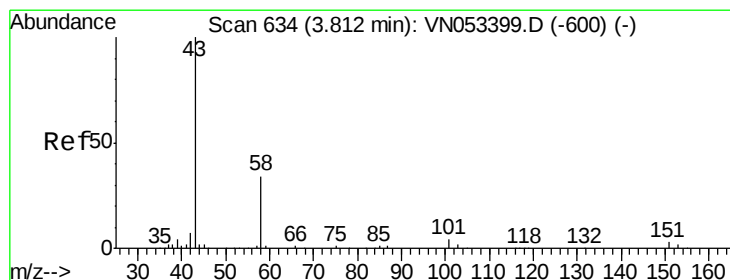
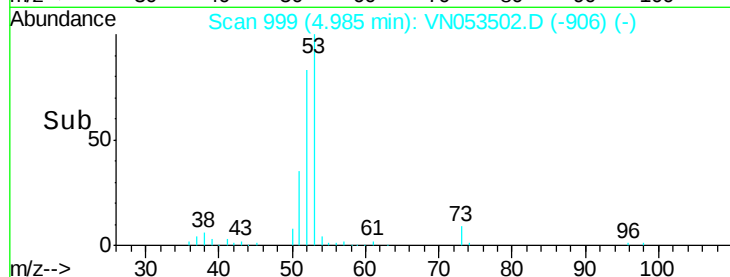
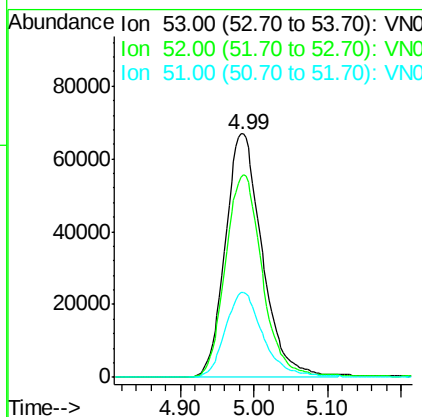
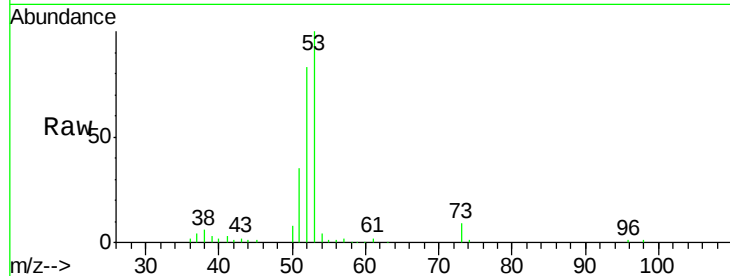
ClientSampleId :

VN0121WBSD01

Tot Ion:	53	Resp:	233324
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.0	99.0
51	35.6	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 98.339 ug/l

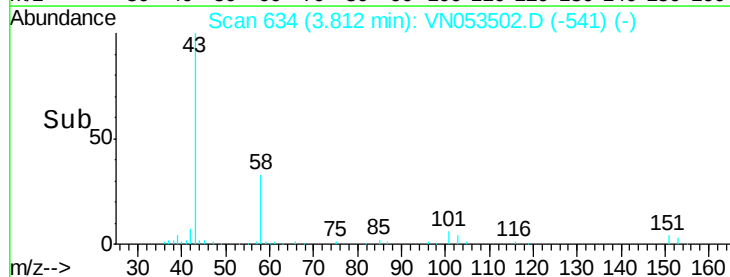
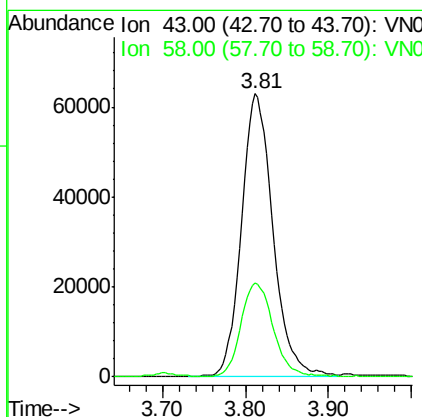
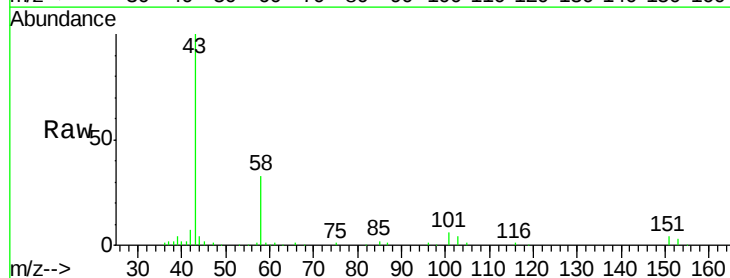
RT: 3.81 min Scan# 634

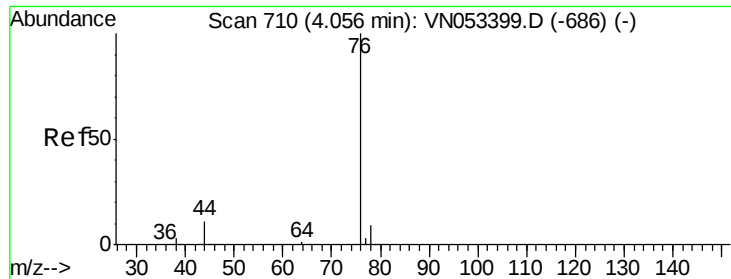
Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion:	43	Resp:	166807
Ion	Ratio	Lower	Upper
43	100		
58	32.9	27.1	40.7





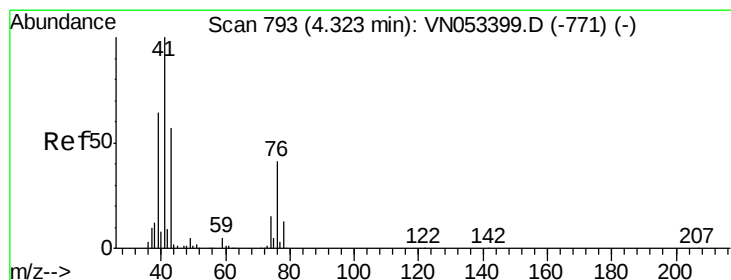
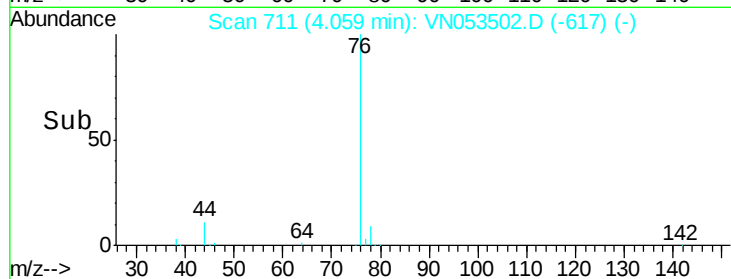
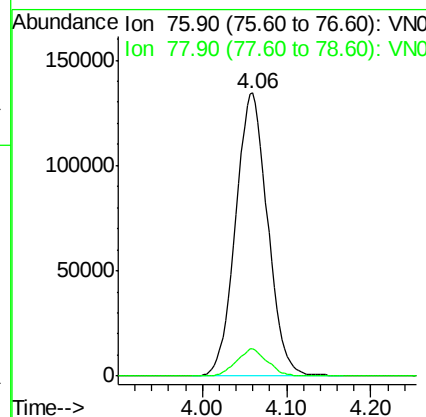
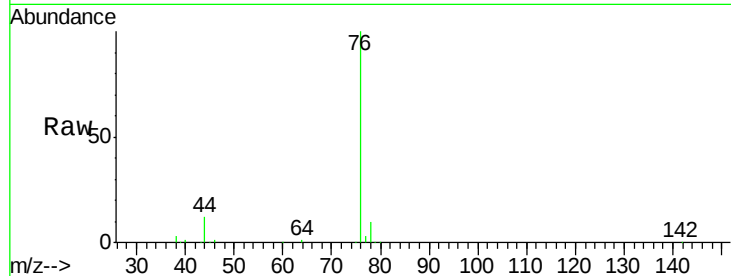
#17
Carbon Disulfide
Concen: 18.066 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	76	Resp	355778
Ion Ratio	Lower	Upper	
76	100		
78	9.7	7.3	10.9

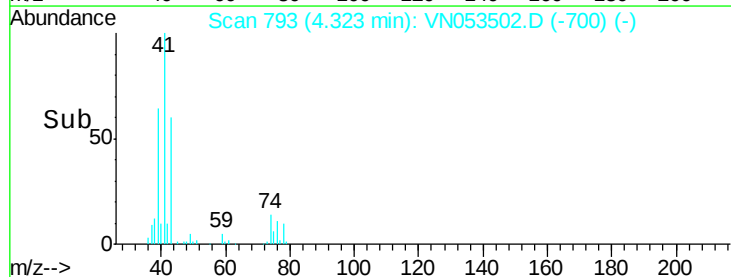
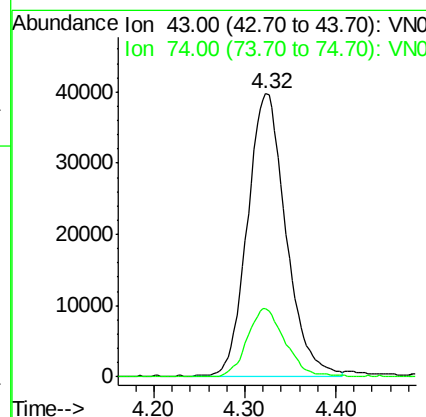
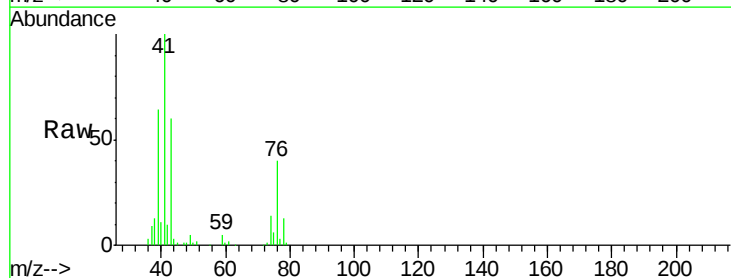
Manual Integrations
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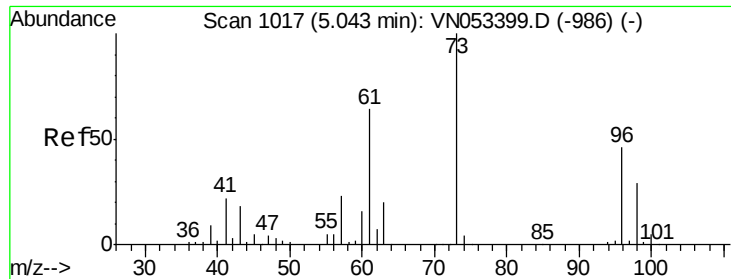
MMDadoda
1/22/2019 9:47:36 AM



#18
Methyl Acetate
Concen: 20.535 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	43	Resp	117355
Ion Ratio	Lower	Upper	
43	100		
74	23.7	19.4	29.2





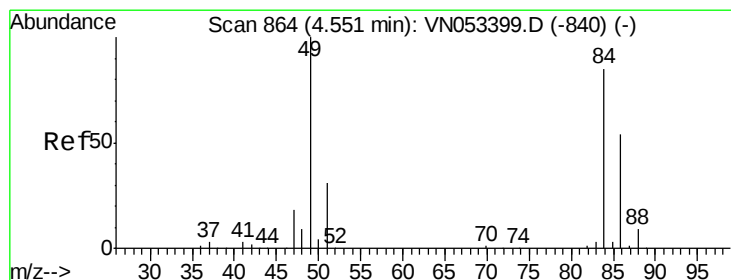
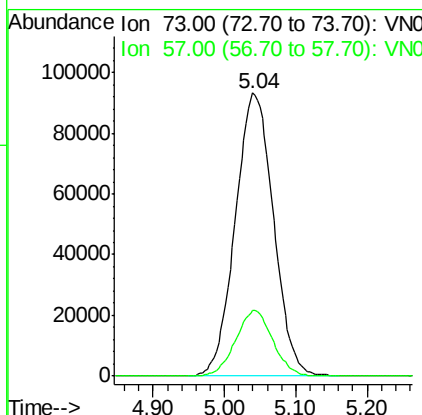
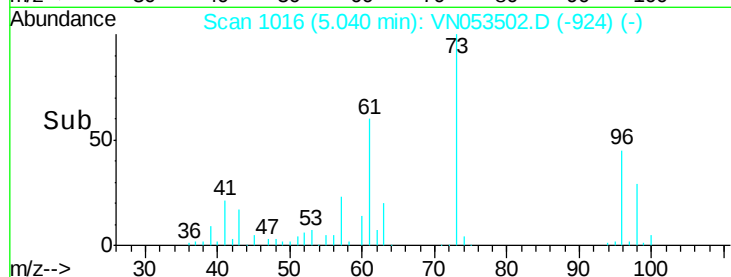
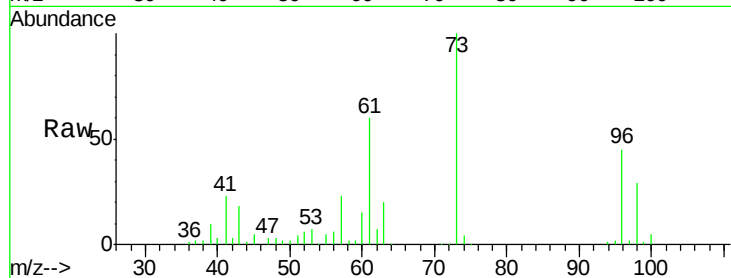
#19
Methvl tert-butvl Ether
Concen: 20.065 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampled :
VN0121WBSD01

Tot Ion: 73 Resp: 347189
Ion Ratio Lower Upper
73 100
57 23.2 18.3 27.5

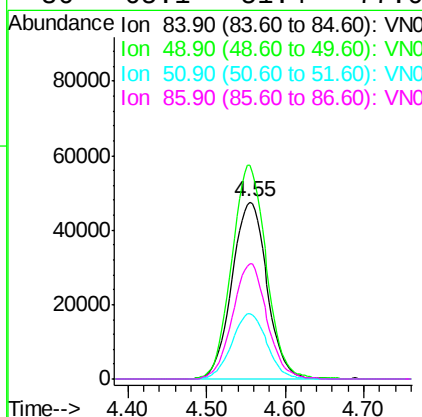
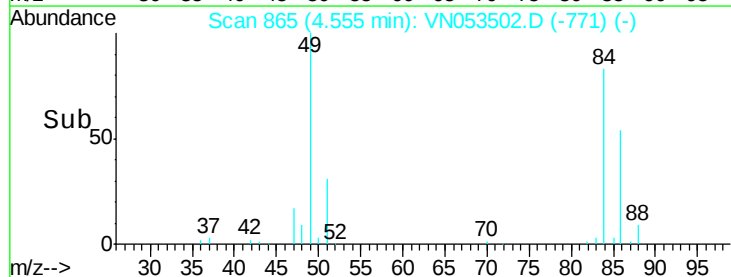
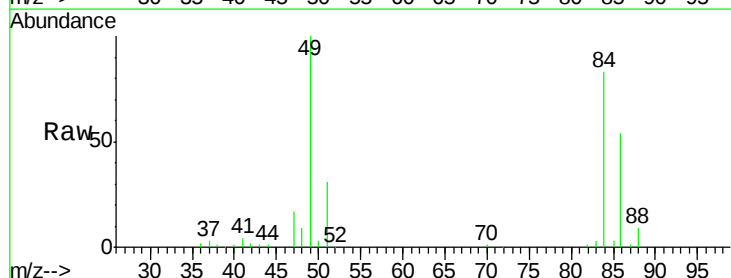
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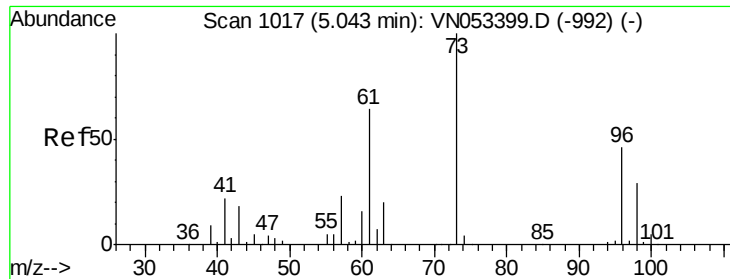
MMDadoda
1/22/2019 9:47:36 AM



#20
Methylene Chloride
Concen: 19.176 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion: 84 Resp: 148506
Ion Ratio Lower Upper
84 100
49 120.8 94.3 141.5
51 37.1 29.4 44.2
86 65.1 51.4 77.0





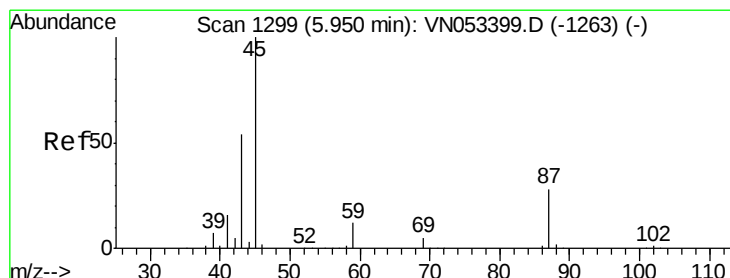
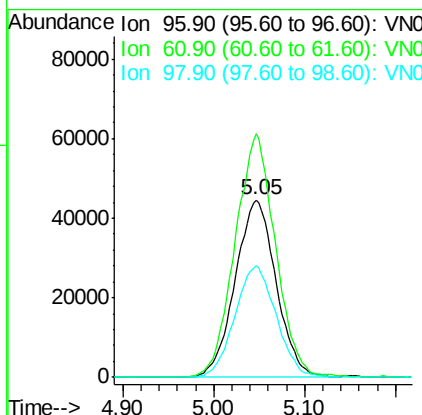
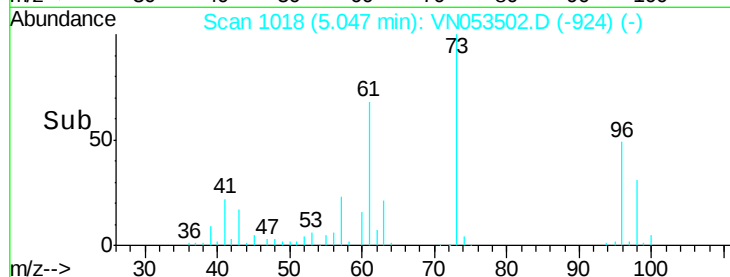
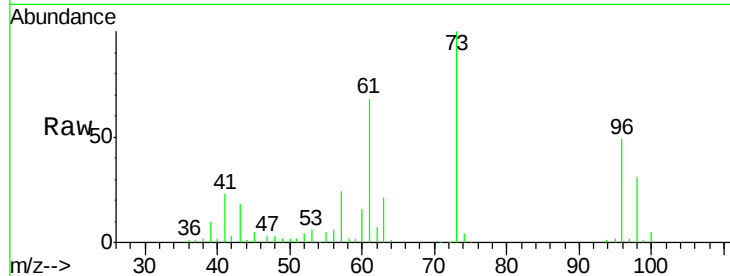
#21
trans-1,2-Dichloroethene
Concen: 20.001 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.7	110.1	165.1
98	62.8	50.0	75.0

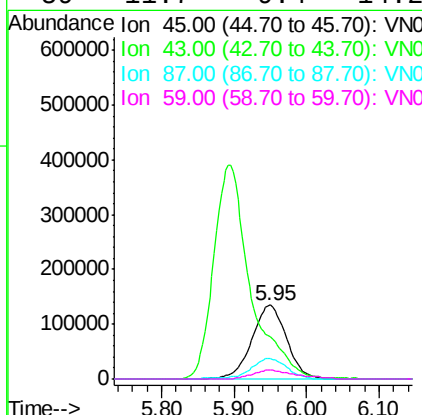
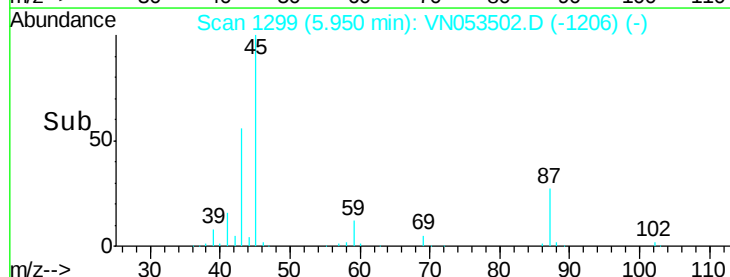
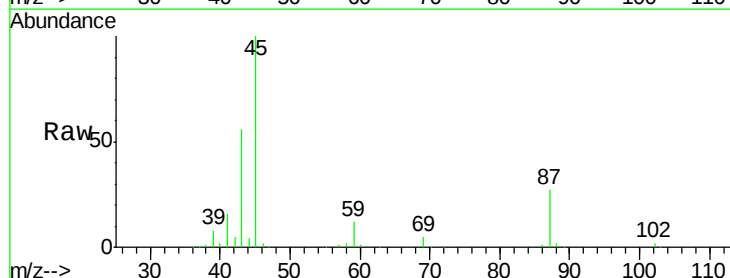
Manual Integrations
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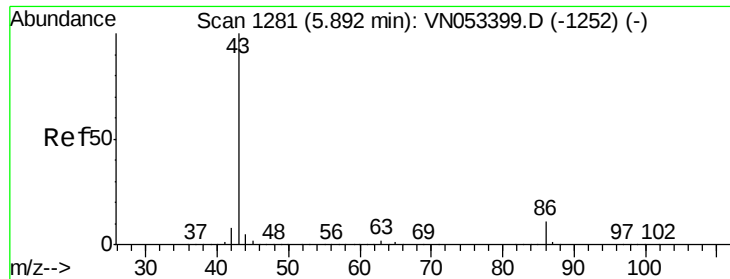
MMDadoda
1/22/2019 9:47:36 AM



#22
Diisopropyl ether
Concen: 20.291 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.1	44.2	66.4
87	27.5	22.7	34.1
59	11.7	9.4	14.2





#23

Vinyl Acetate

Concen: 101.226 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 43 Resp: 1374099

Ion Ratio Lower Upper

43 100

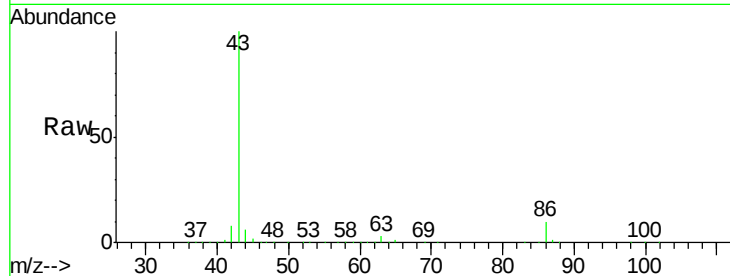
86 10.1 8.4 12.6

Manual Integrations

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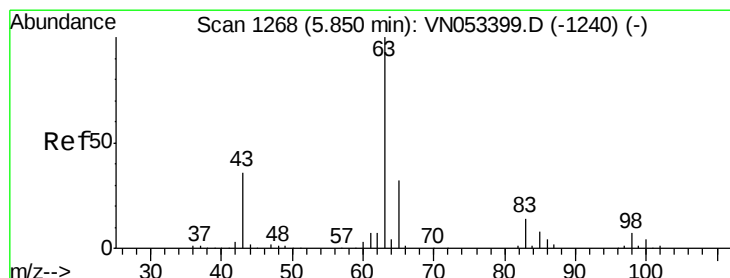
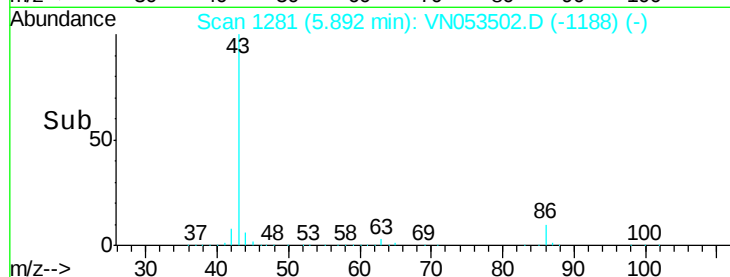
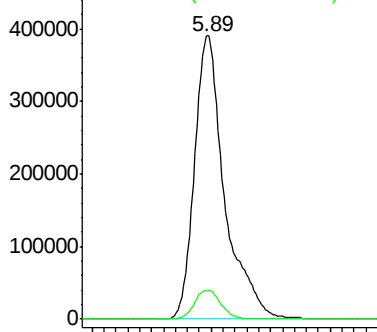
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.890 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

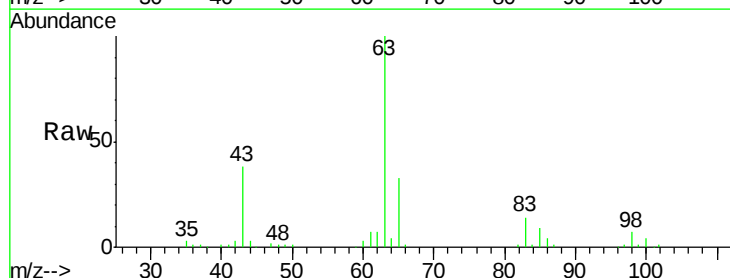
Tgt Ion: 63 Resp: 259656

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.9

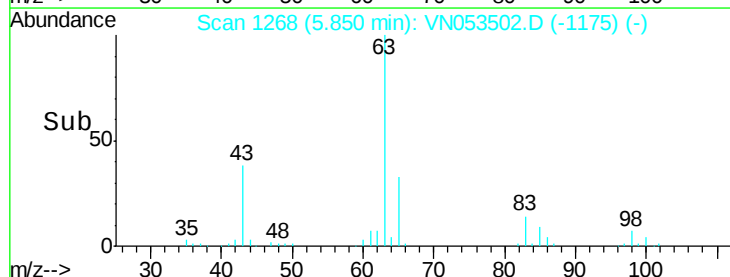
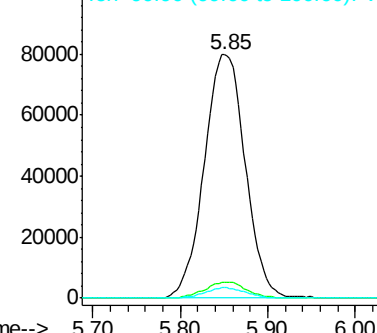
100 4.4 2.1 6.5

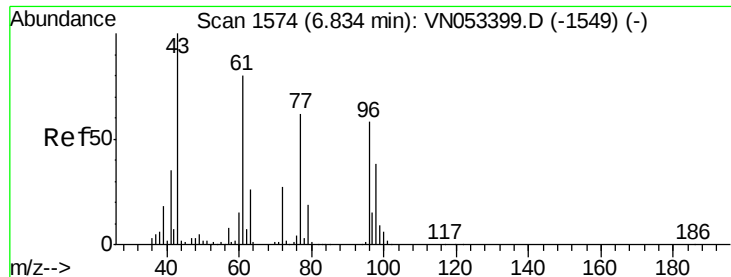


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 98.456 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 43 Resp: 257357

Ion Ratio Lower Upper

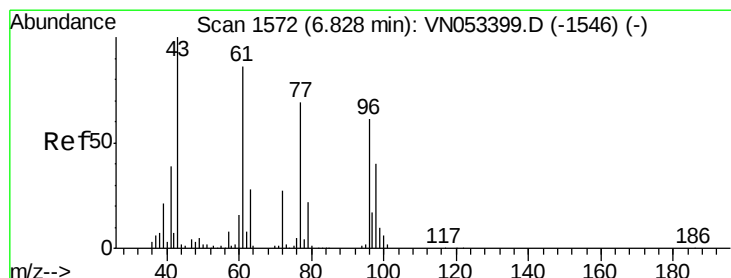
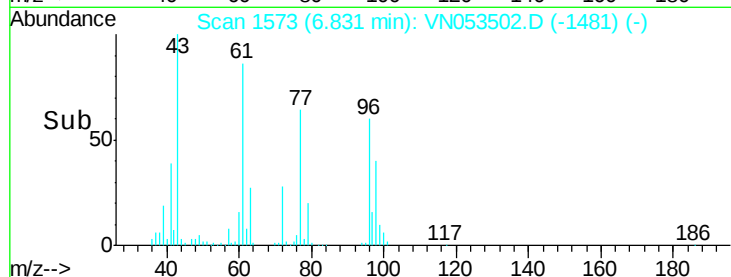
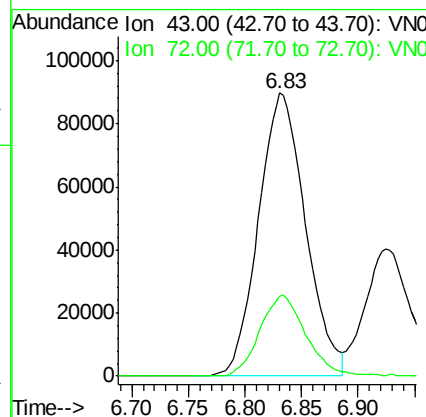
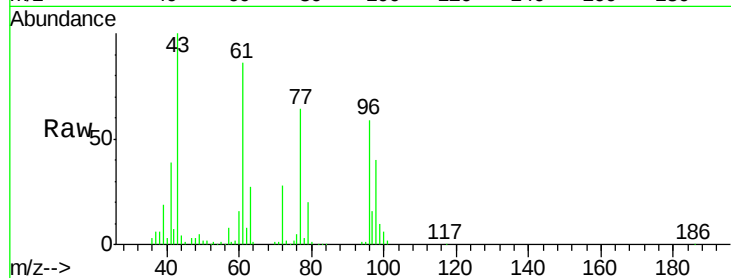
43 100

72 28.4 22.0 33.0

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#26

2,2-Dichloropropane

Concen: 19.078 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053502.D

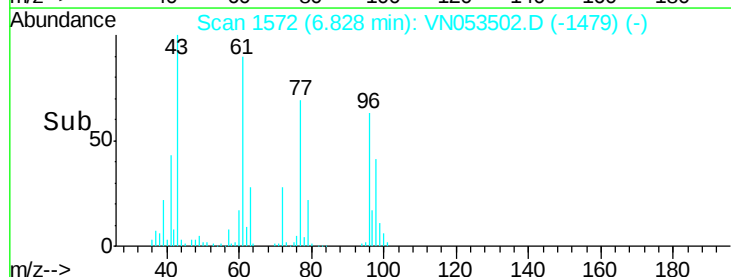
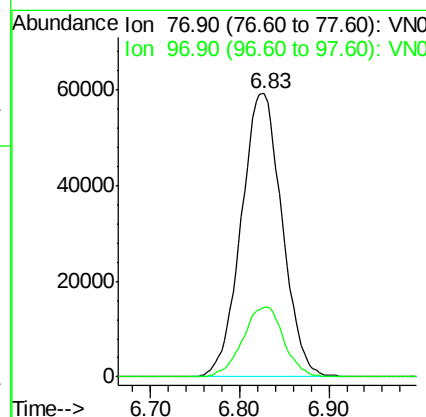
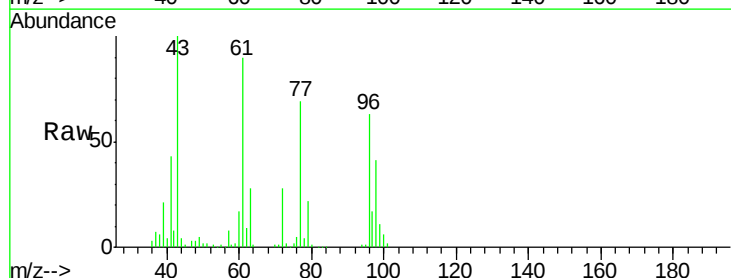
Acq: 21 Jan 2019 13:11

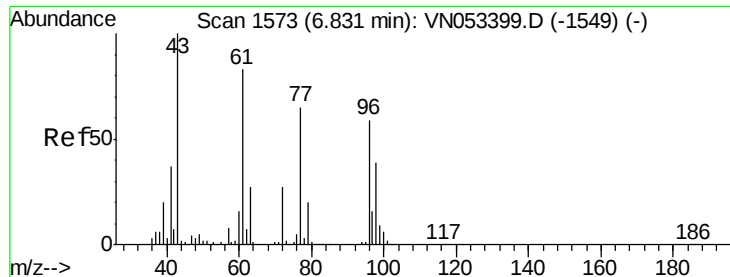
Tgt Ion: 77 Resp: 188040

Ion Ratio Lower Upper

77 100

97 24.7 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.172 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

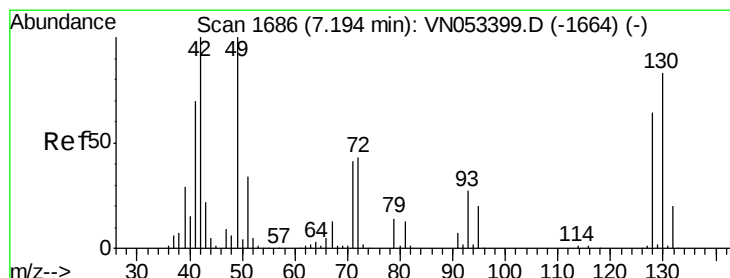
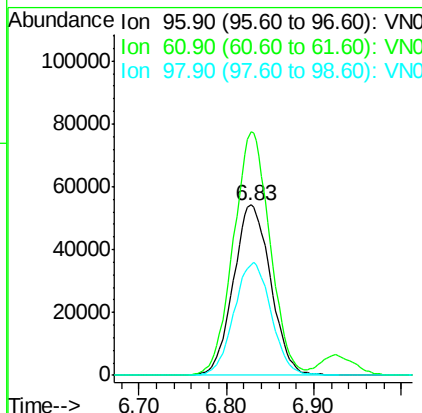
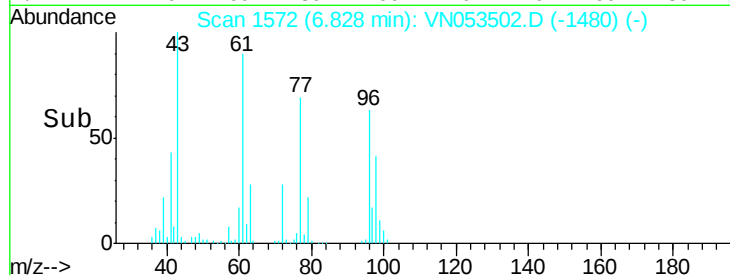
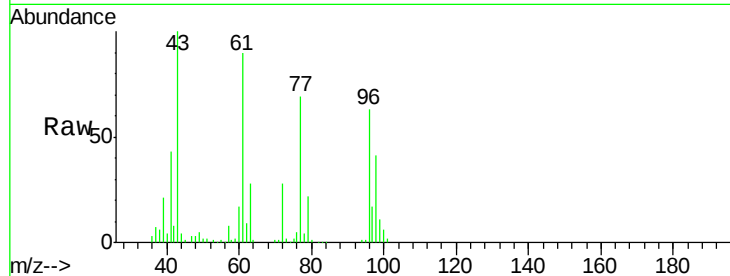
ClientSampleId :

VN0121WBSD01

Tot Ion:	96	Resp:	160598
Ion	Ratio	Lower	Upper
96	100		
61	139.8	0.0	283.8
98	65.7	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 20.247 ug/l

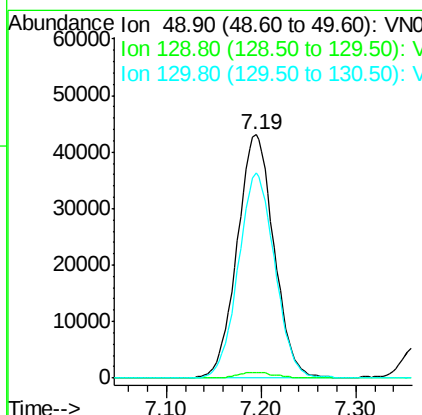
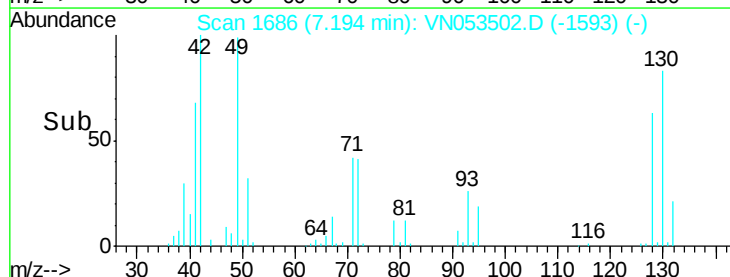
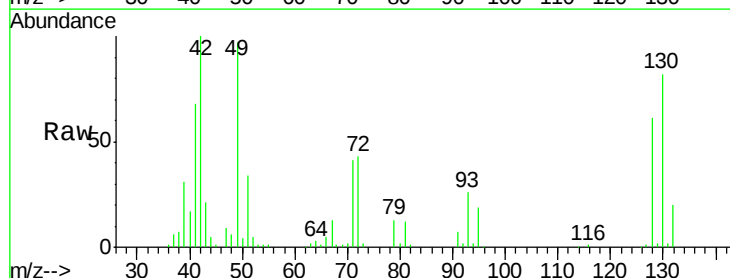
RT: 7.19 min Scan# 1686

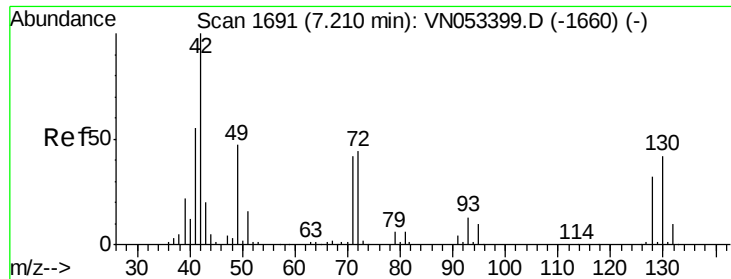
Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion:	49	Resp:	116442
Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.0
130	83.5	66.3	99.5





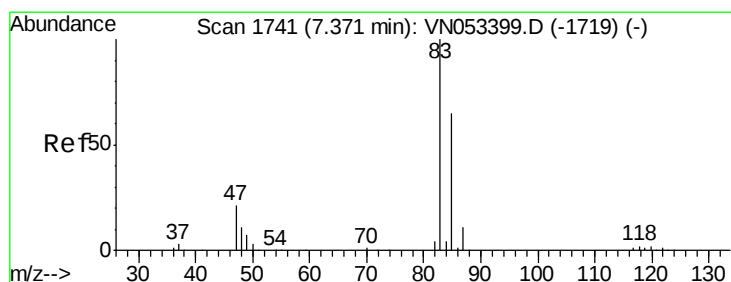
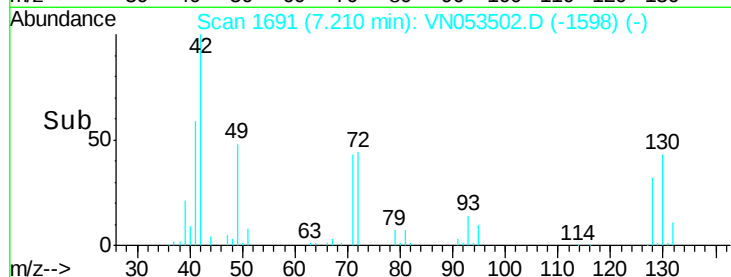
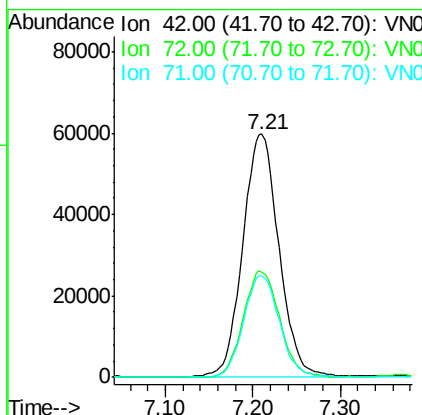
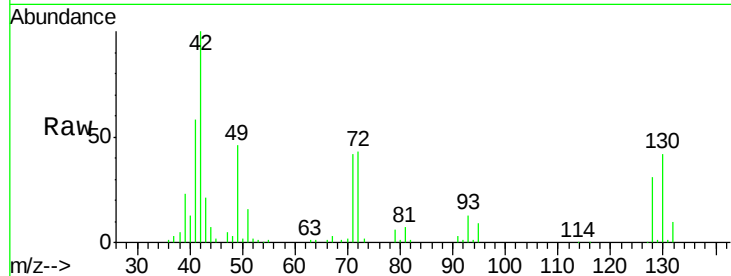
#29
Tetrahydrofuran
Concen: 101.122 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.2	52.8
71	41.2	33.0	49.4

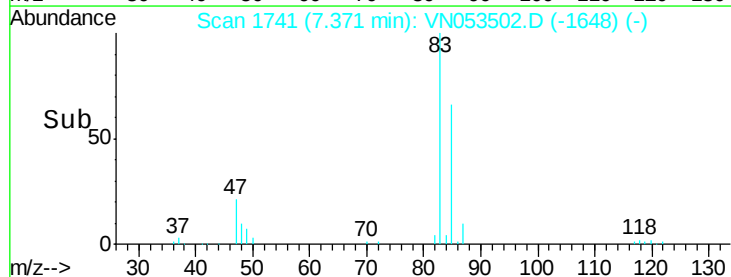
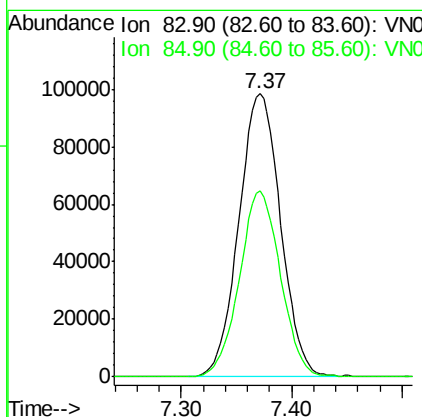
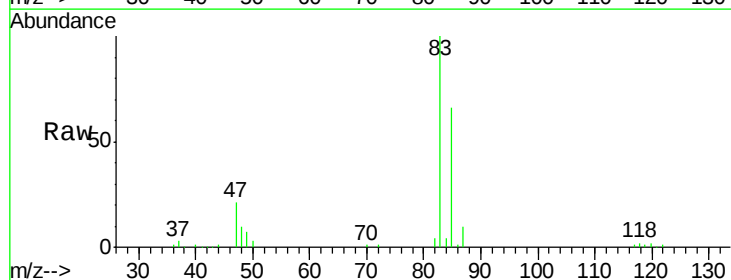
Manual Integrations
APPROVED

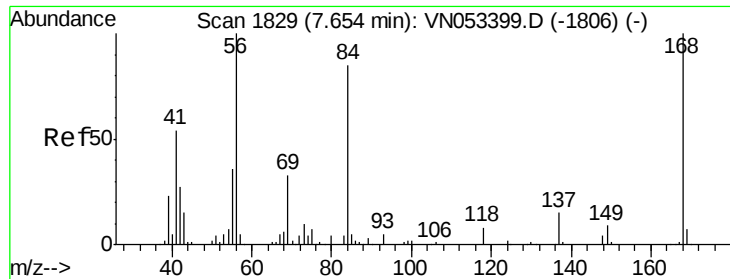
MMDadoda
1/22/2019 9:47:36 AM



#30
Chloroform
Concen: 20.288 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.2





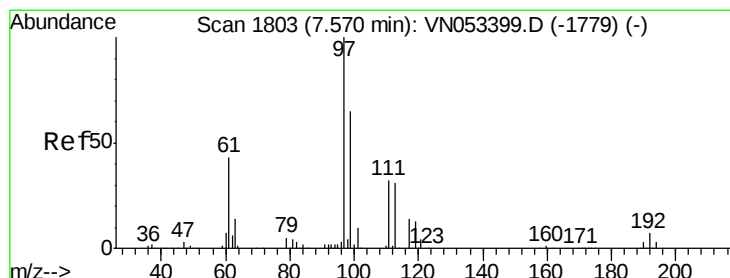
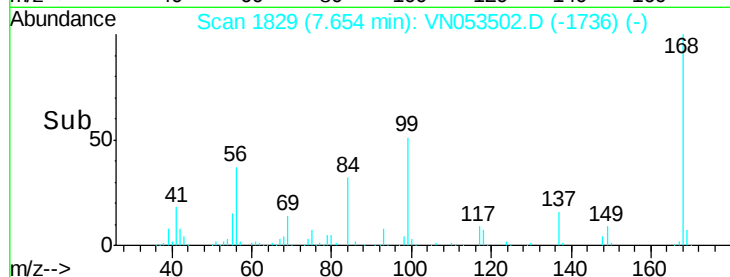
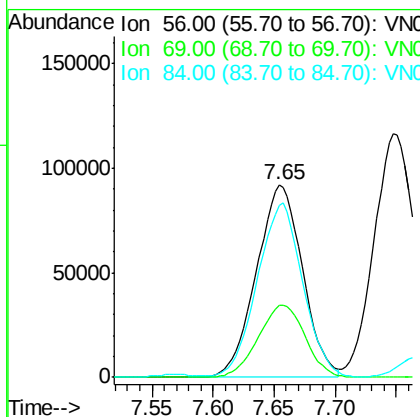
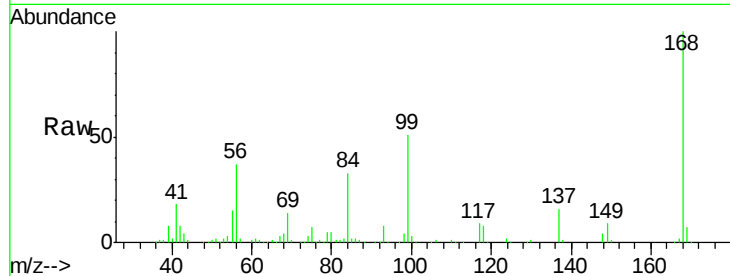
#31
Cyclohexane
Concen: 18.885 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.2	26.4	39.6
84	88.3	67.9	101.9

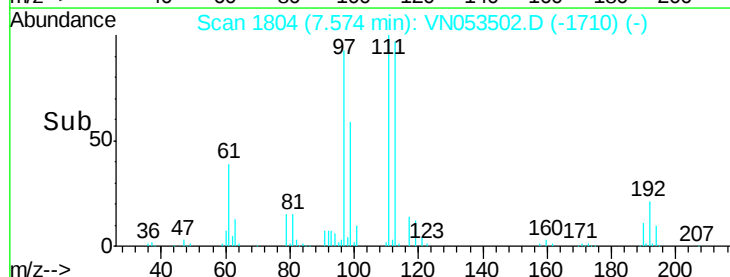
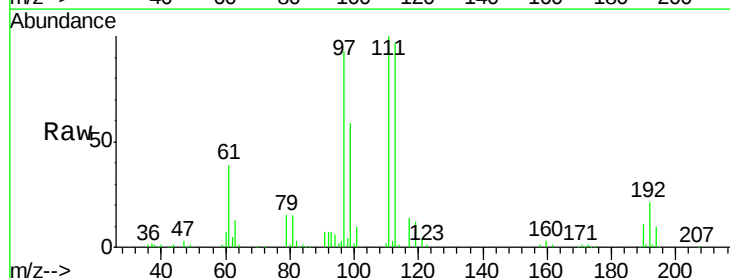
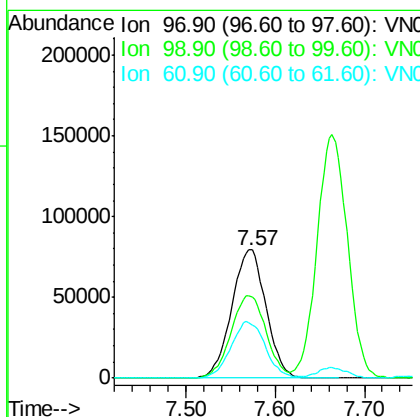
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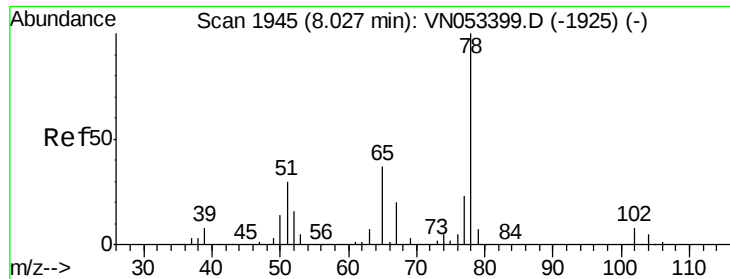
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.699 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.0	78.0
61	43.9	34.4	51.6





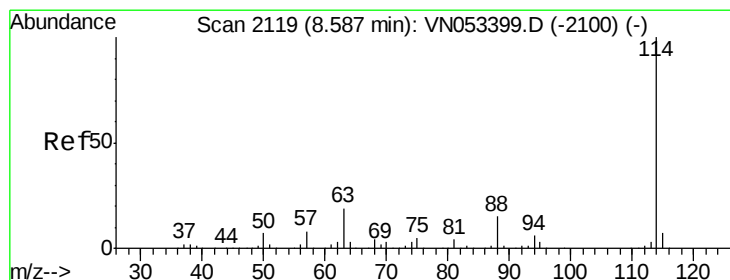
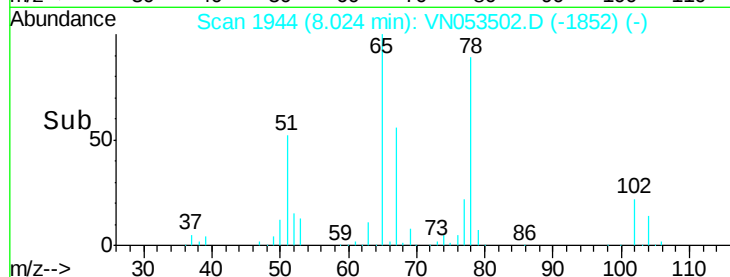
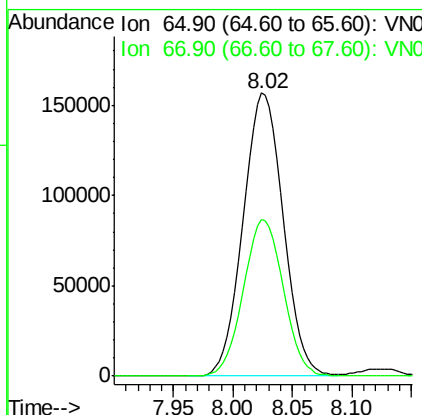
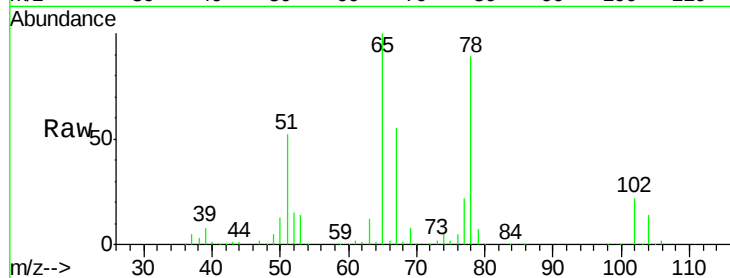
#33
 1,2-Dichloroethane-d4
 Concen: 19.699 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampled :
 VN0121WBSD01

Tot Ion: 65 Resp: 366809
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 111.2

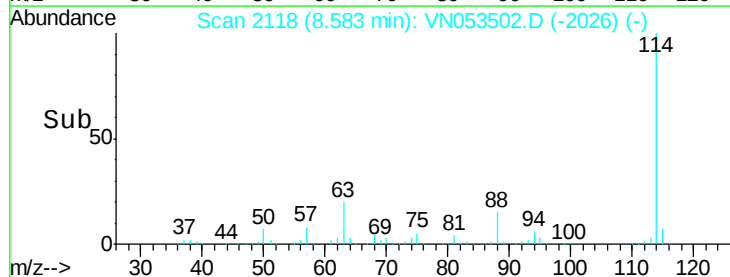
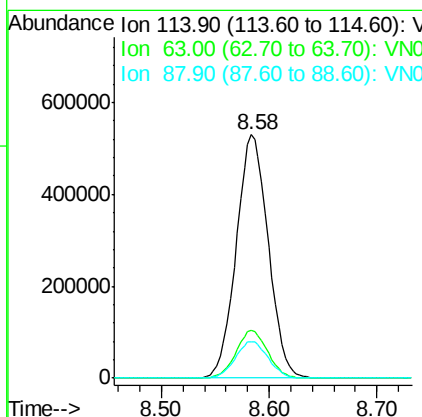
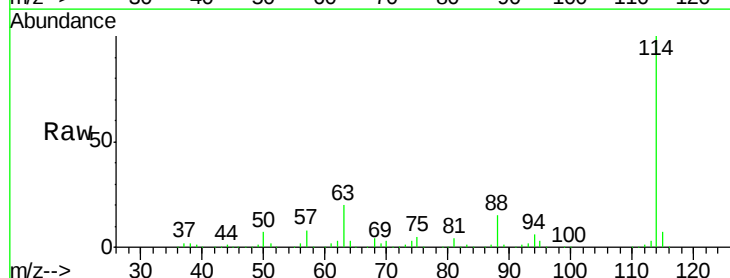
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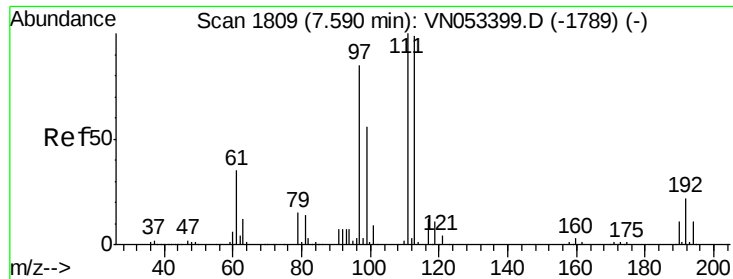
MMDadoda
 1/22/2019 9:47:36 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion: 114 Resp: 1094364
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.1 0.0 30.4





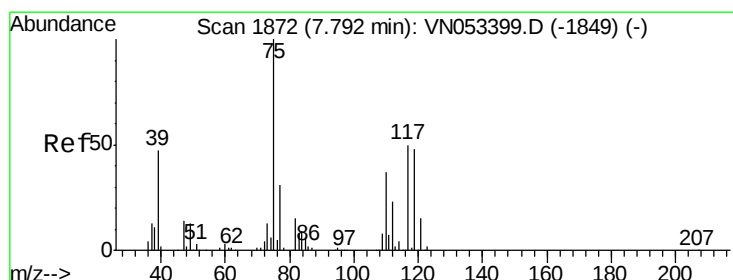
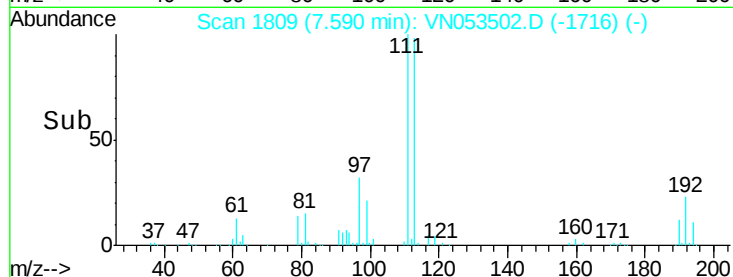
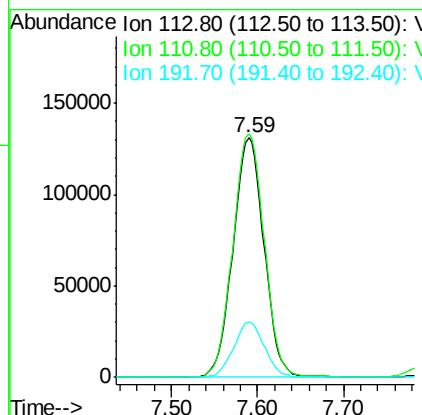
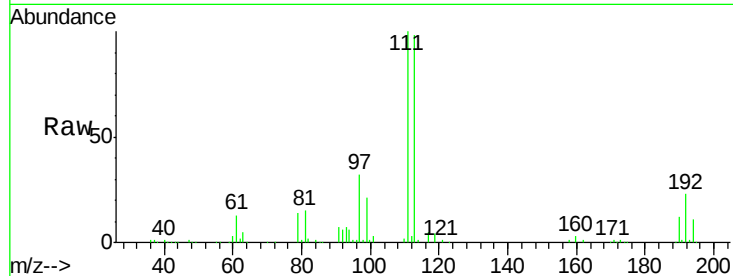
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampled :
 VN0121WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	327570		
111	103.4	81.1	121.7	
192	22.9	18.2	27.2	

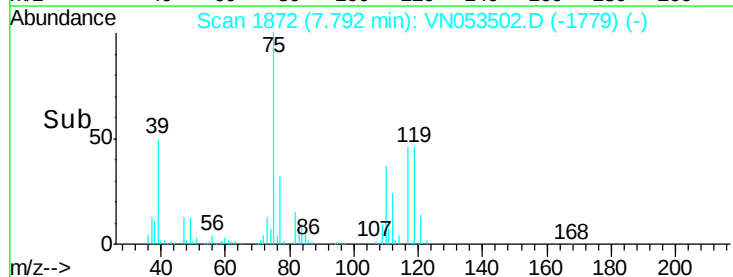
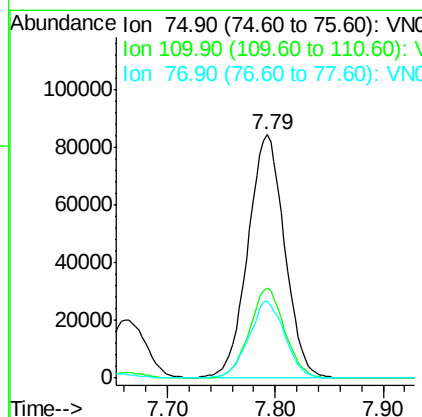
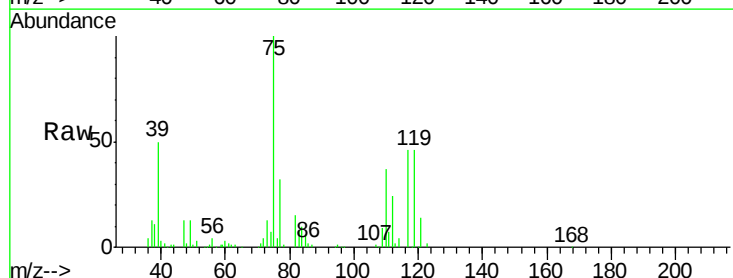
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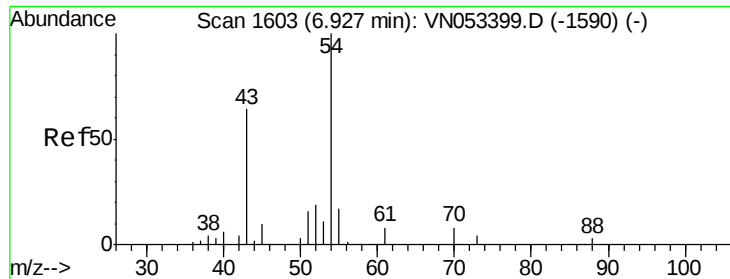
MMDadoda
 1/22/2019 9:47:36 AM



#36
 1,1-Dichloropropene
 Concen: 19.875 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	198080		
110	35.8	18.1	54.3	
77	31.1	25.1	37.7	





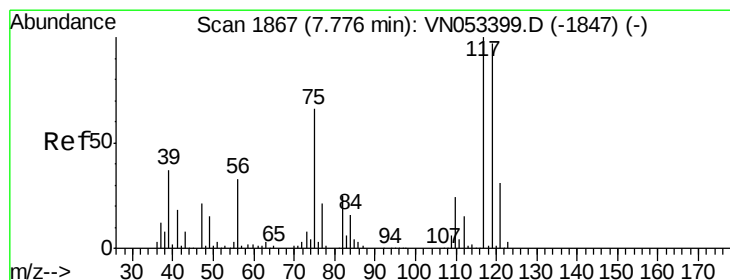
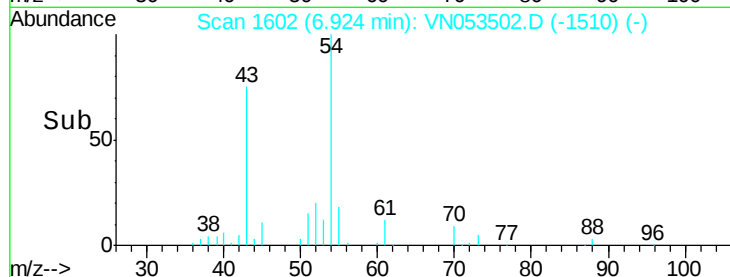
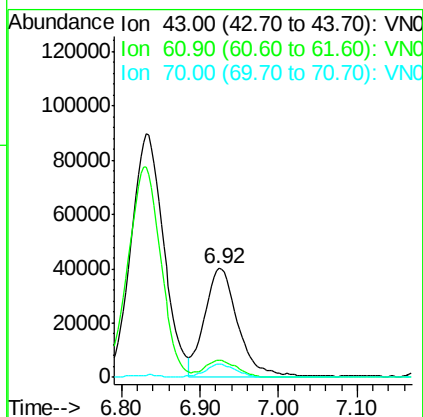
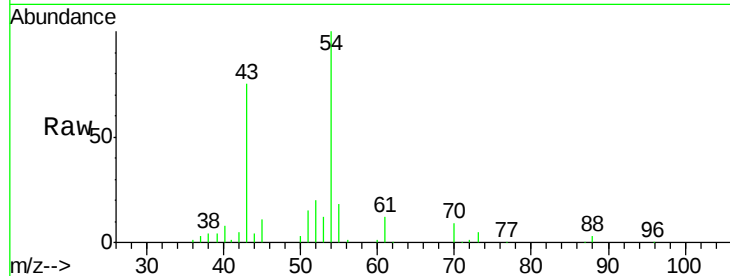
#37
Ethyl Acetate
Concen: 20.310 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	11.4	8.6	12.8

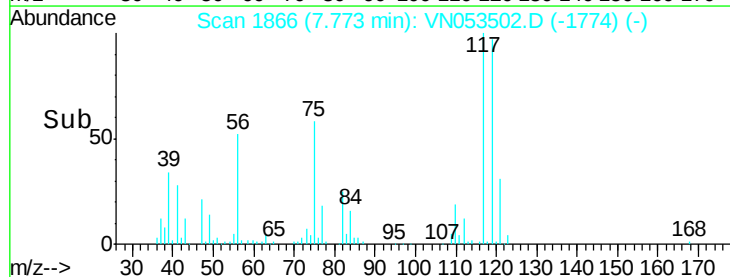
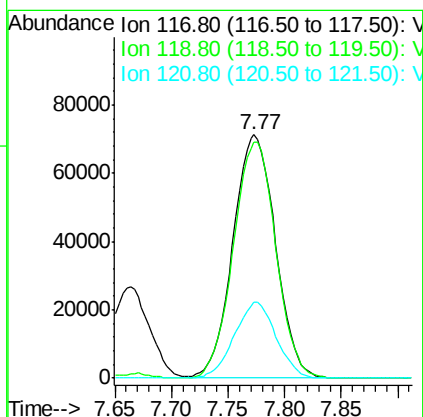
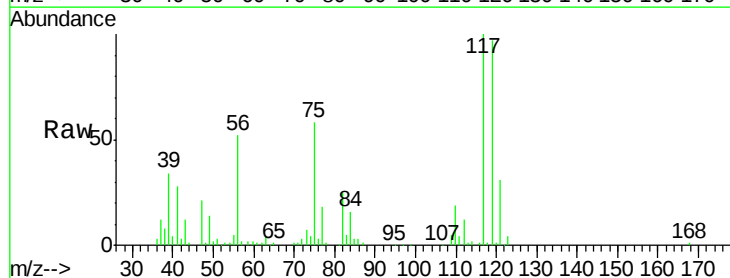
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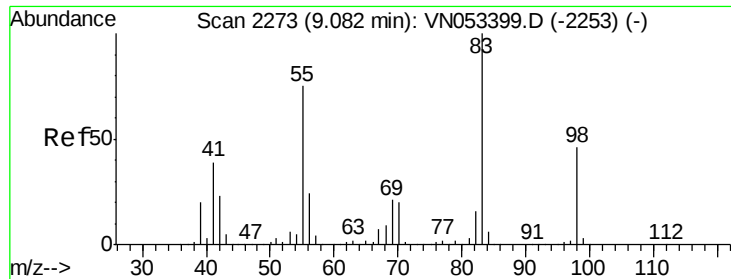
MMDadoda
1/22/2019 9:47:36 AM



#38
Carbon Tetrachloride
Concen: 19.750 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.2	115.8
121	31.2	24.6	37.0





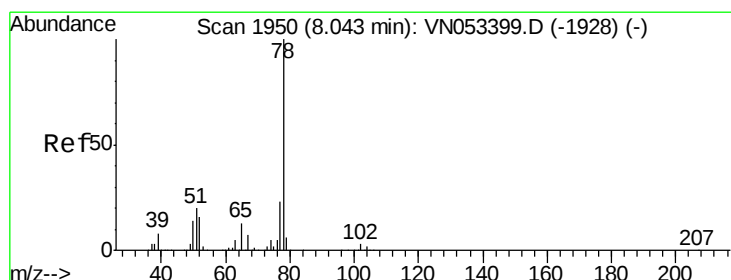
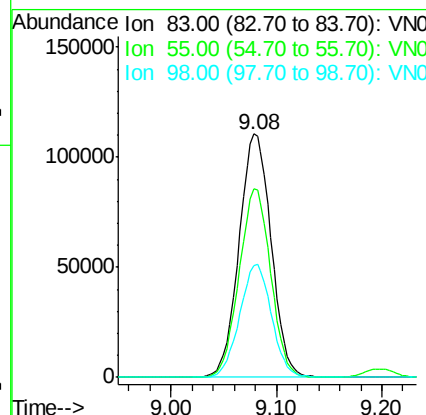
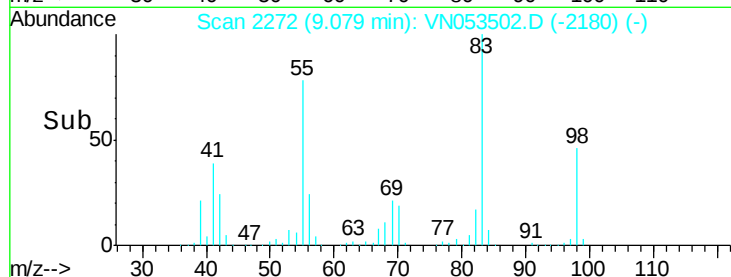
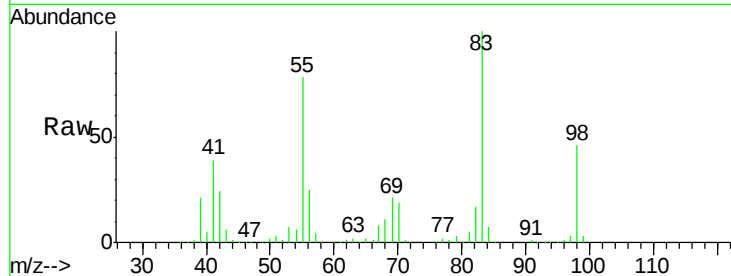
#39
Methvlcvclohexane
Concen: 18.934 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampled :
VN0121WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	233236		
55	77.5	60.1	90.1	
98	46.0	36.6	55.0	

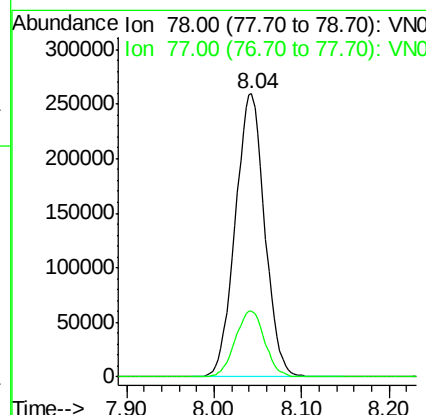
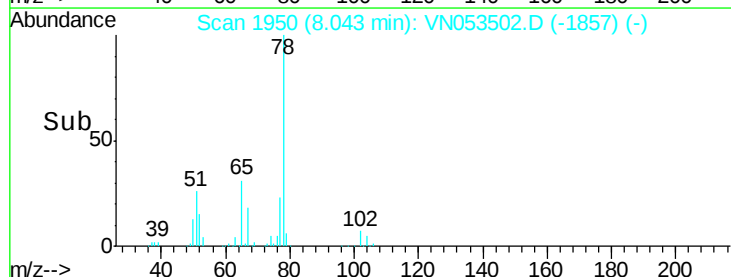
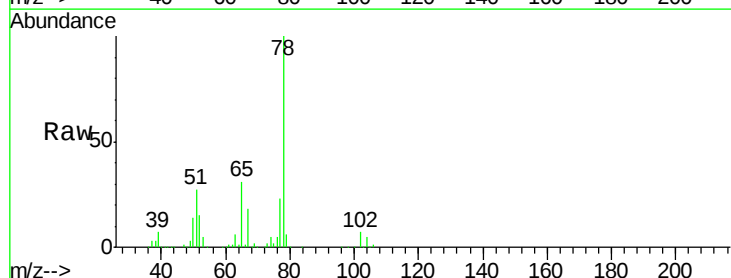
Manual Integrations
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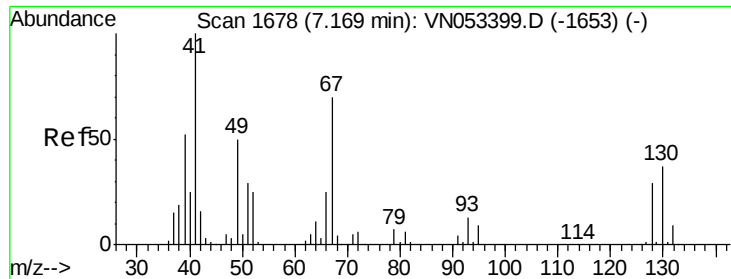
MMDadoda
1/22/2019 9:47:36 AM



#40
Benzene
Concen: 19.980 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	605120		
77	23.0	18.8	28.2	





#41

Methacrylonitrile

Concen: 18.082 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

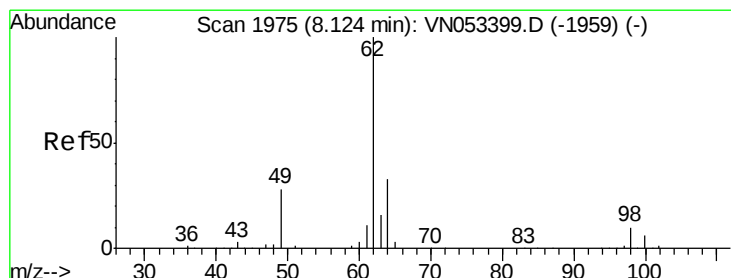
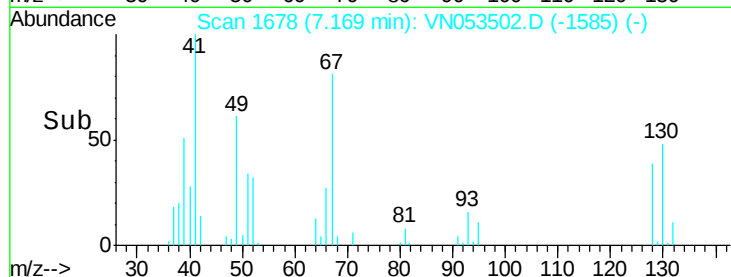
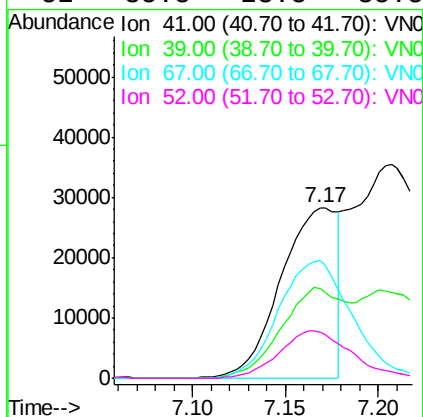
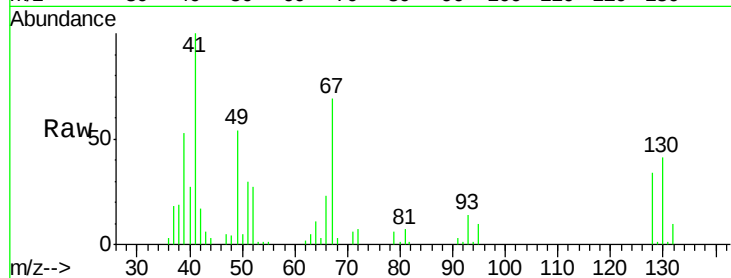
VN0121WBSD01

Tot Ion: 41 Resp: 60138

Ion	Ratio	Lower	Upper
41	100		
39	59.3	46.8	70.2
67	89.8	63.0	94.6
52	35.8	23.8	35.8

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#42

1,2-Dichloroethane

Concen: 20.553 ug/l

RT: 8.12 min Scan# 1975

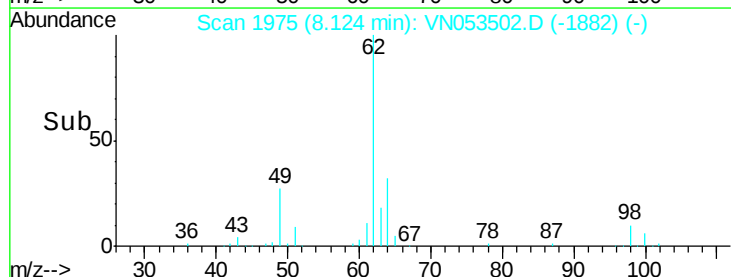
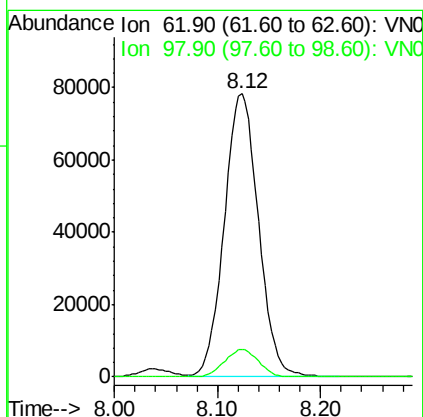
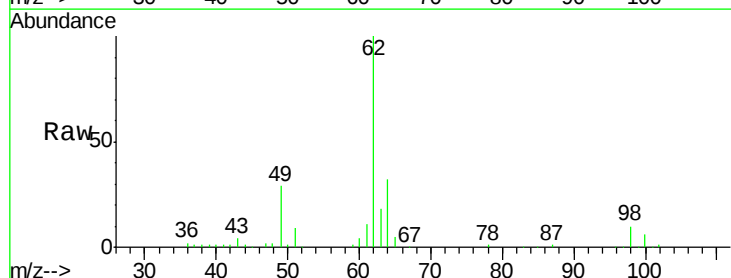
Delta R.T. 0.00 min

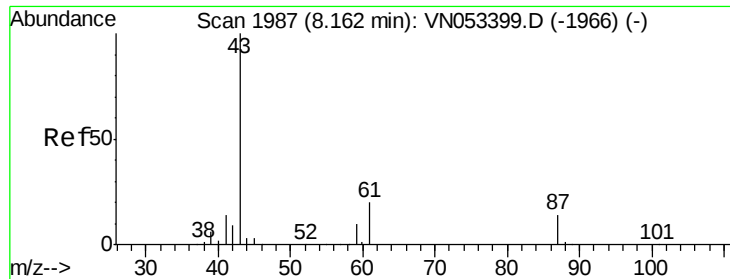
Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion: 62 Resp: 181343

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.6





#43

Isopropyl Acetate

Concen: 19.974 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

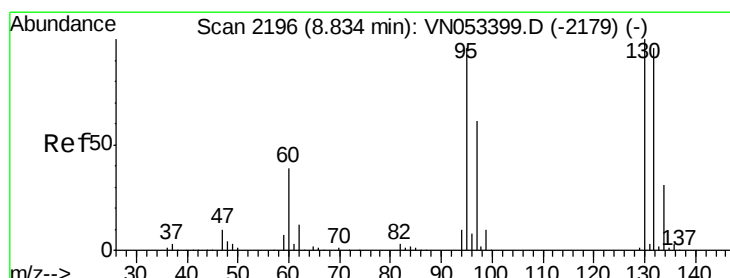
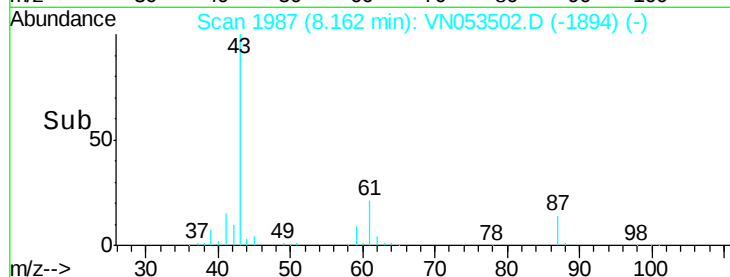
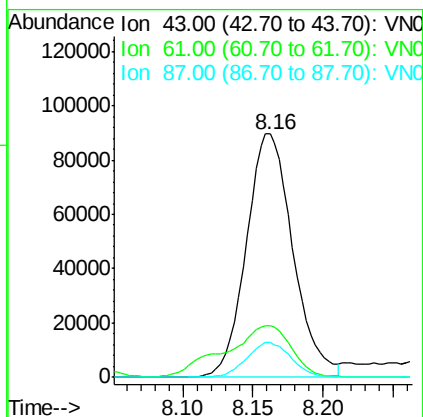
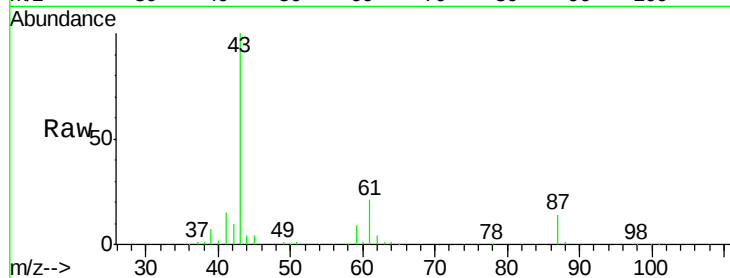
ClientSampleId :

VN0121WBSD01

Tot Ion:	43	Resp:	205940
Ion	Ratio	Lower	Upper
43	100		
61	30.1	23.9	35.9
87	13.7	11.0	16.6

Manual Integrations
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#44

Trichloroethene

Concen: 20.290 ug/l

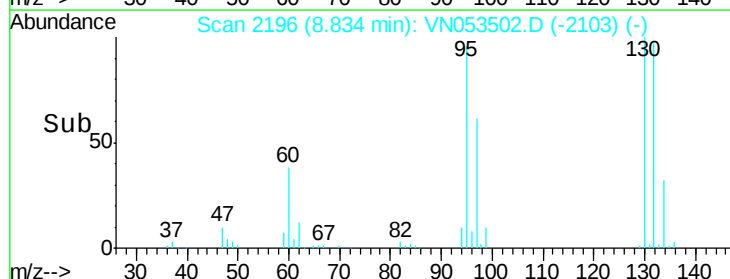
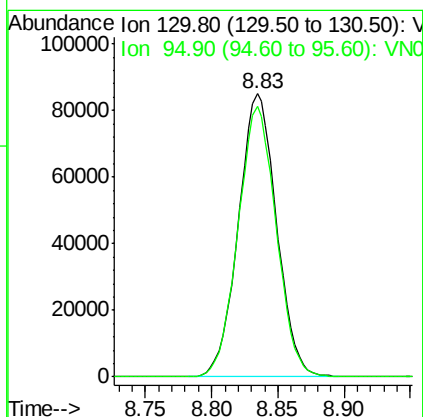
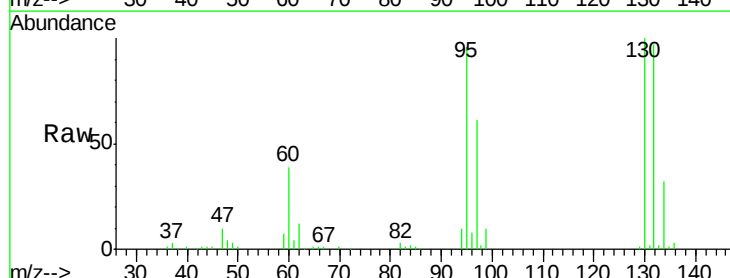
RT: 8.83 min Scan# 2196

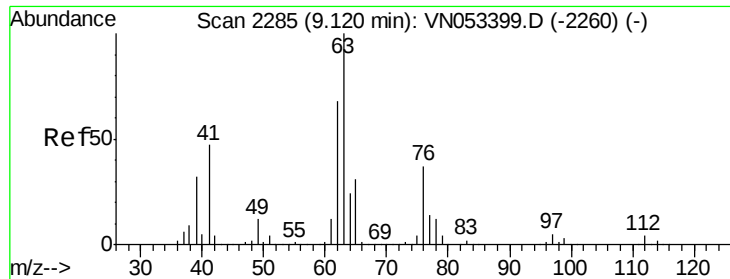
Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion:	130	Resp:	170417
Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	191.4





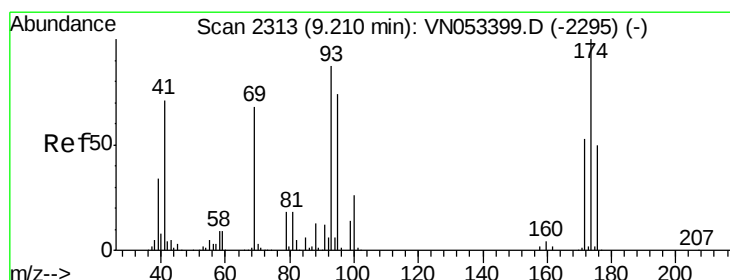
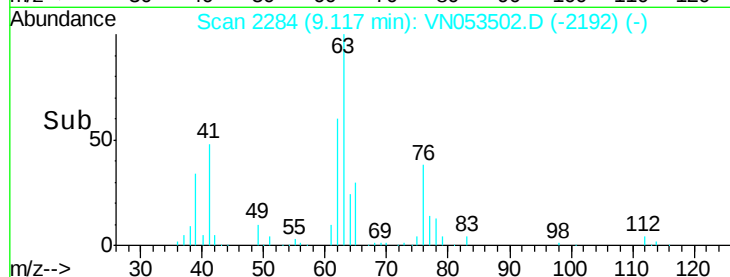
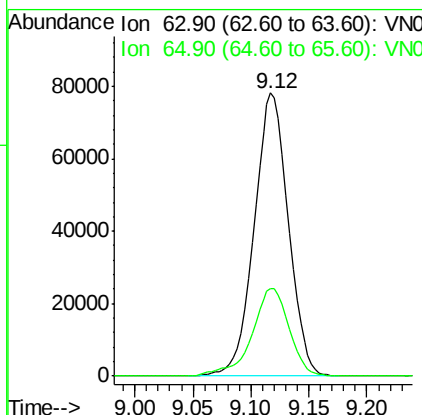
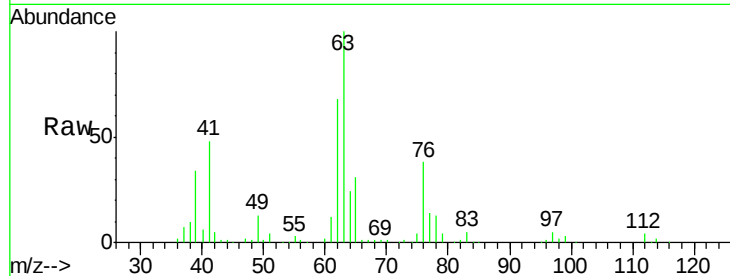
#45
 1,2-Dichloropropane
 Concen: 19.969 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion: 63 Resp: 160192
 Ion Ratio Lower Upper
 63 100
 65 31.1 25.0 37.4

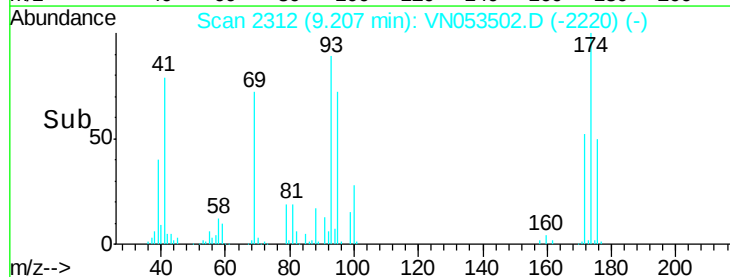
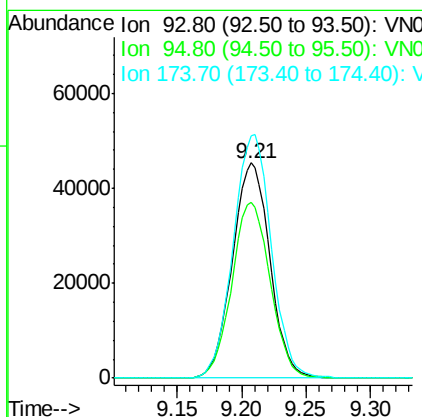
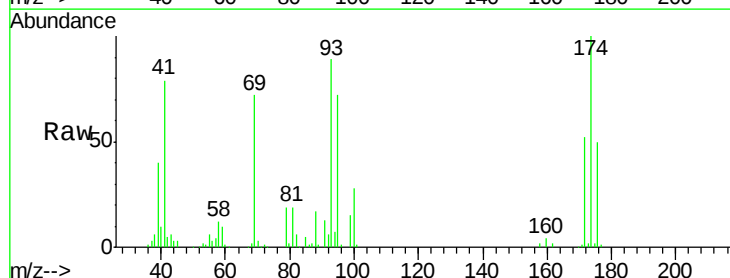
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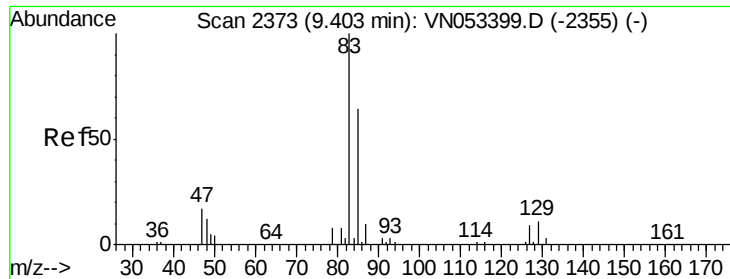
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#46
 Dibromomethane
 Concen: 19.955 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion: 93 Resp: 91970
 Ion Ratio Lower Upper
 93 100
 95 83.2 67.3 100.9
 174 114.7 91.0 136.4





#47

Bromodichloromethane

Concen: 19.702 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

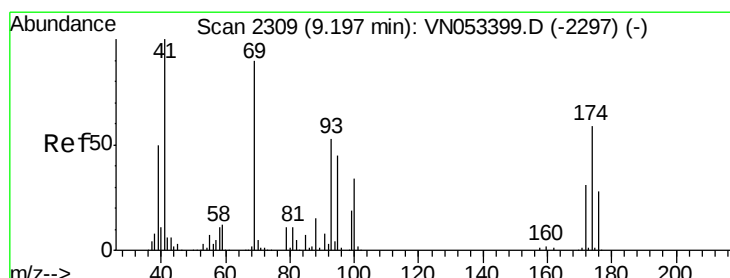
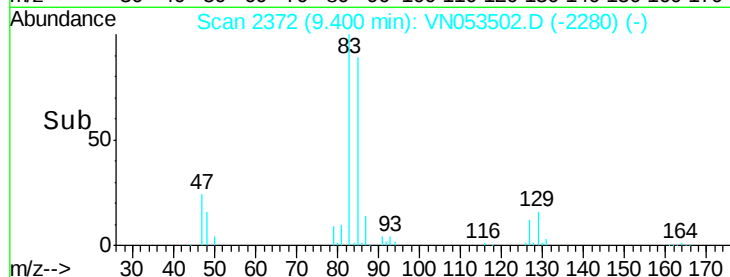
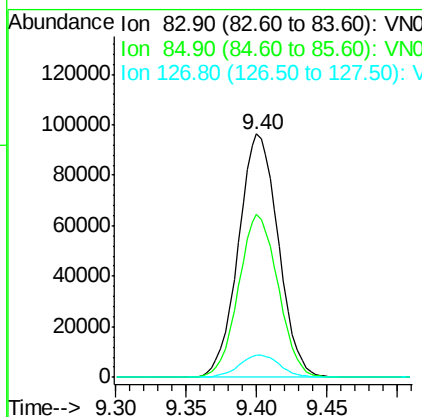
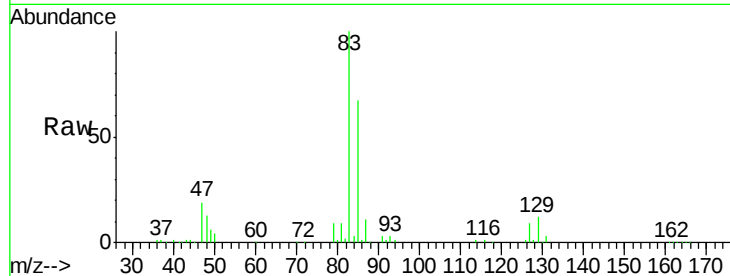
ClientSampleId :

VN0121WBSD01

Tot Ion:	83	Resp:	190959
Ion Ratio	Lower	Upper	
83	100		
85	66.8	51.0	76.6
127	9.3	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.533 ug/l

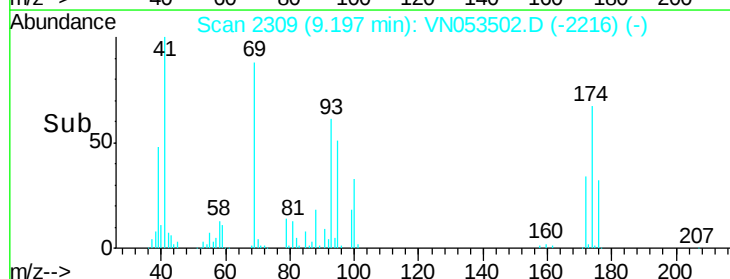
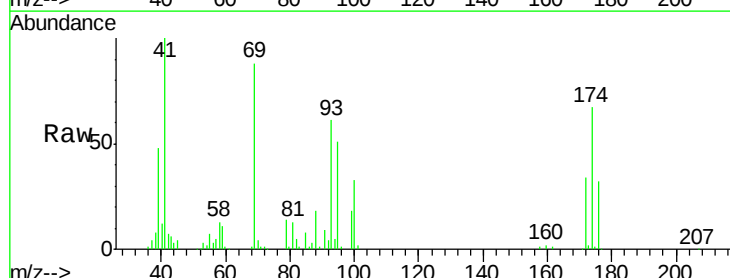
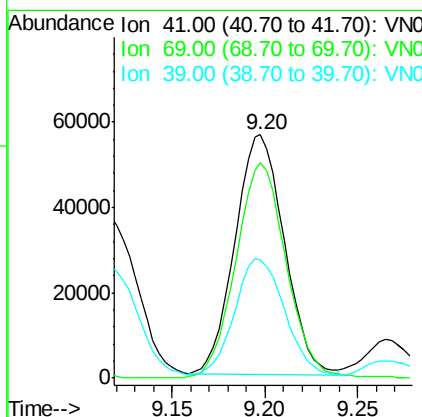
RT: 9.20 min Scan# 2309

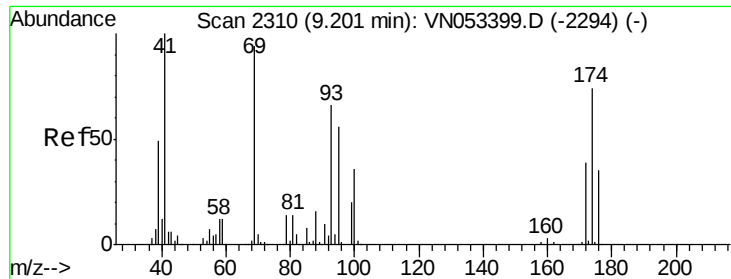
Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion:	41	Resp:	103987
Ion Ratio	Lower	Upper	
41	100		
69	92.2	73.8	110.6
39	51.4	40.0	60.0





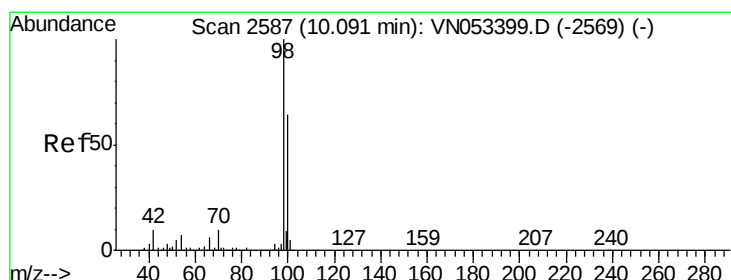
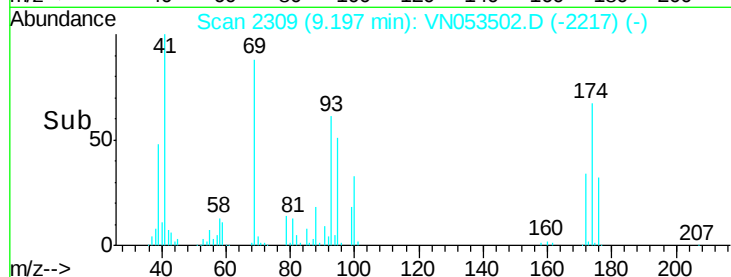
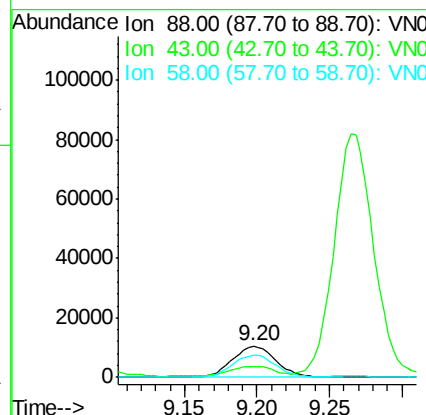
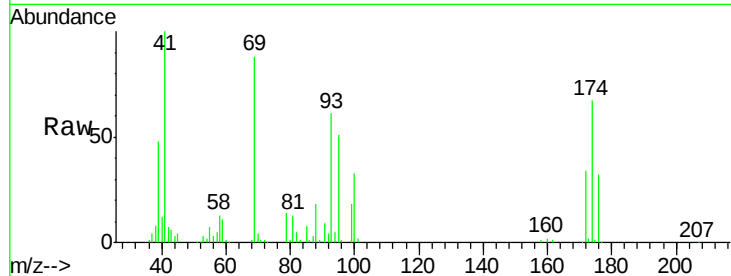
#49
1,4-Dioxane
Concen: 422.035 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	88	Resp	21942
Ion	Ratio	Lower	Upper
88	100		
43	32.2	27.8	41.6
58	72.1	56.5	84.7

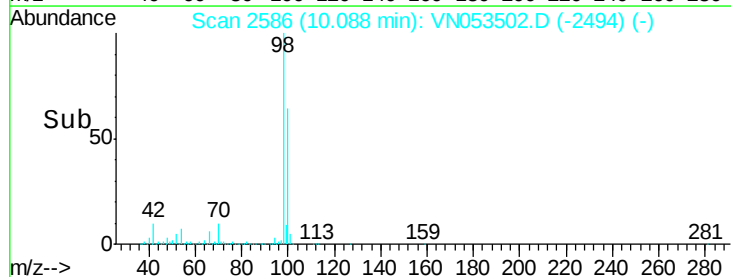
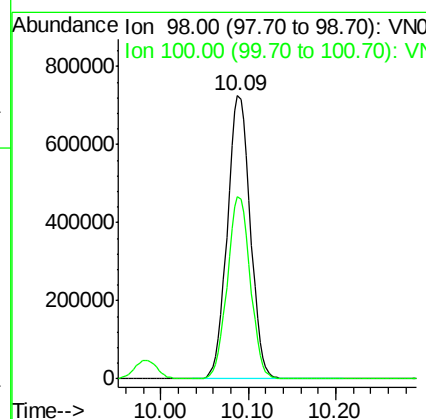
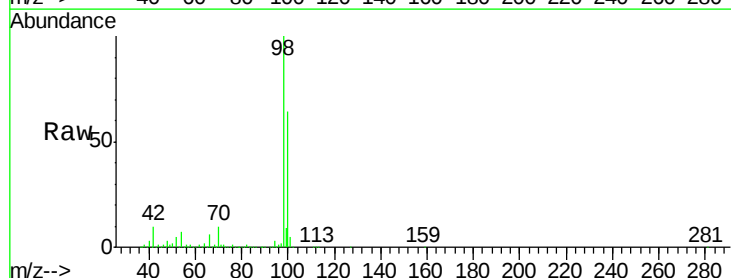
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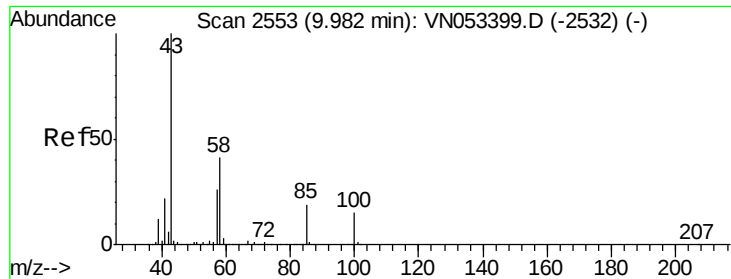
MMDadoda
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#50
Toluene-d8
Concen: 422.035 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	98	Resp	1324050
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 100.083 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 43 Resp: 563309

Ion Ratio Lower Upper

43 100

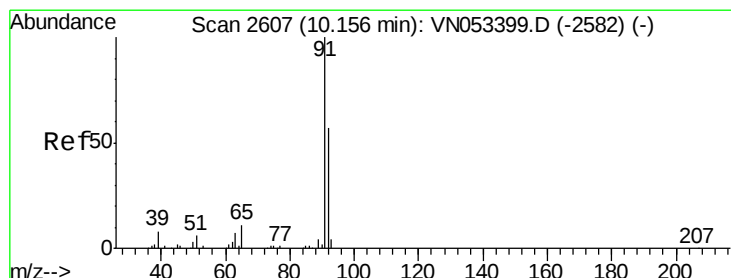
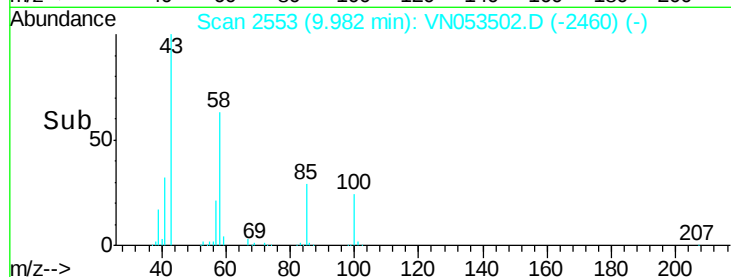
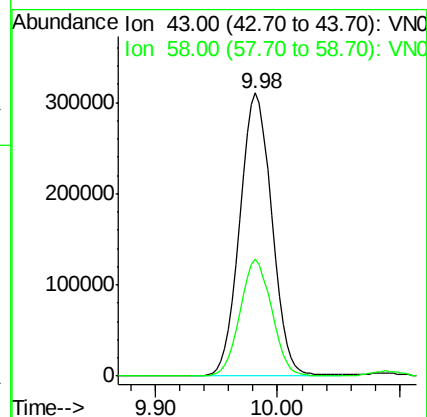
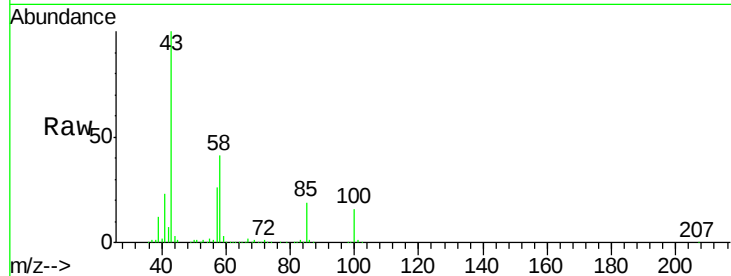
58 40.9 32.8 49.2

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#52

Toluene

Concen: 19.929 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053502.D

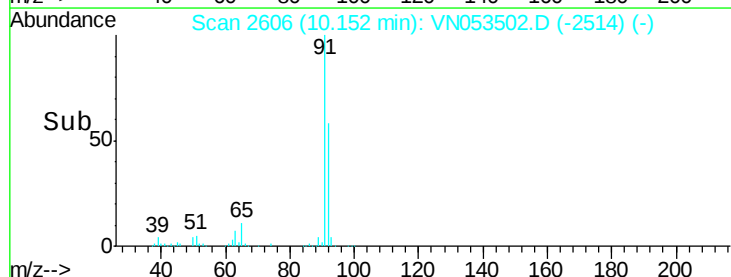
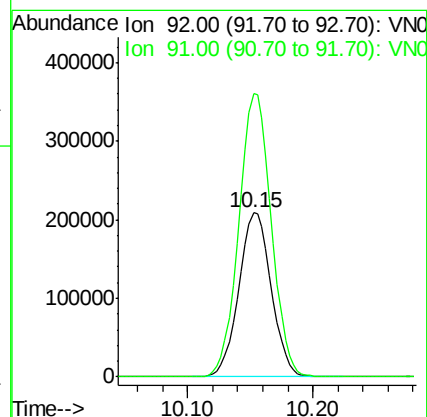
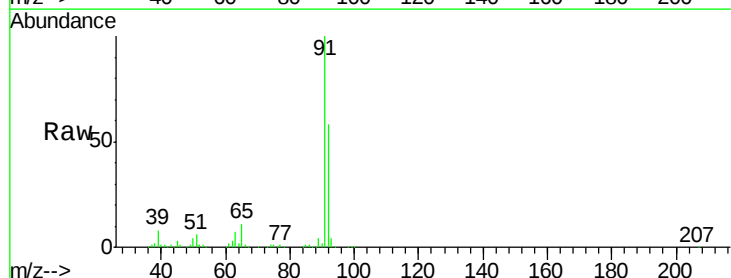
Acq: 21 Jan 2019 13:11

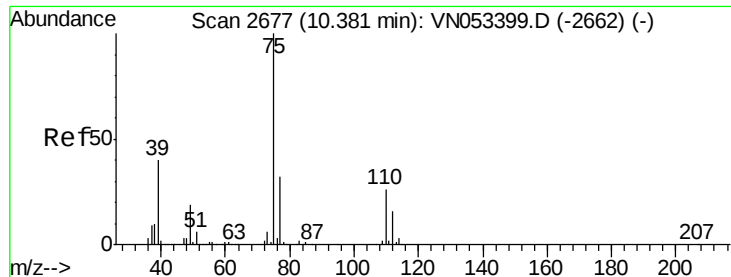
Tgt Ion: 92 Resp: 374717

Ion Ratio Lower Upper

92 100

91 172.7 139.9 209.9





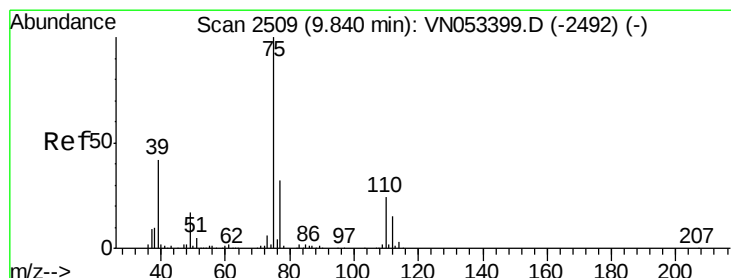
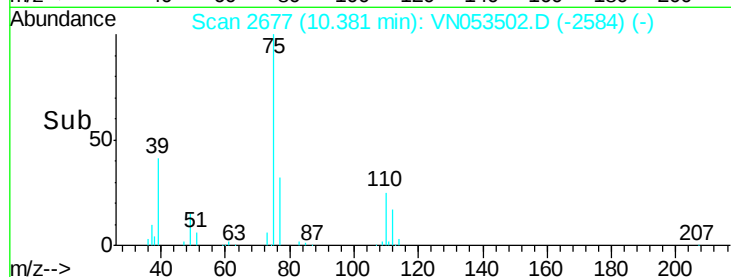
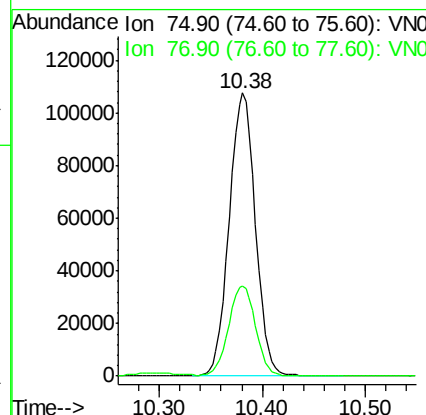
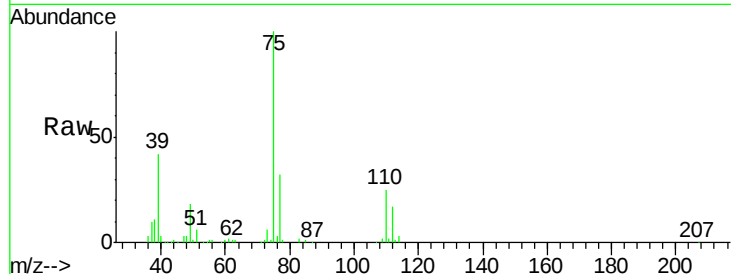
#53
t-1,3-Dichloropropene
Concen: 19.431 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.5	38.3

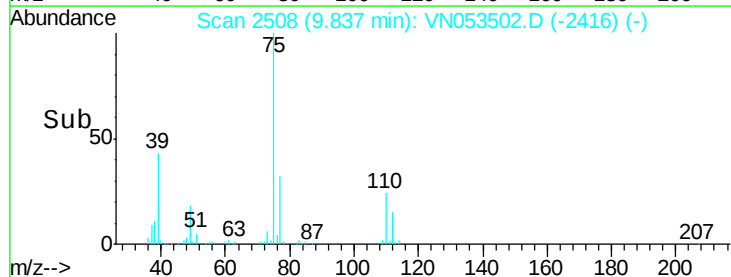
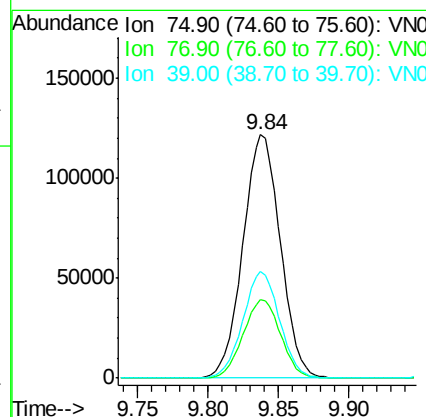
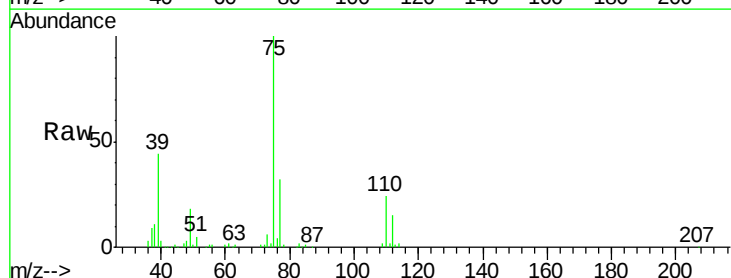
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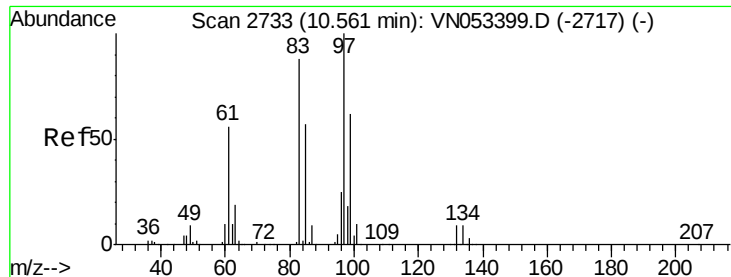
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#54
cis-1,3-Dichloropropene
Concen: 19.678 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.8	38.6
39	43.4	33.4	50.0





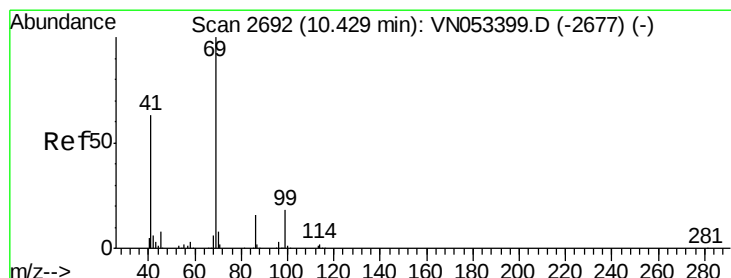
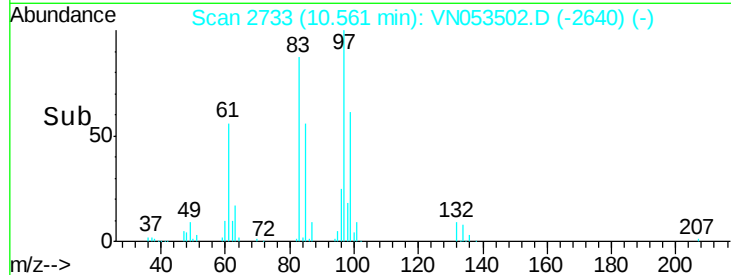
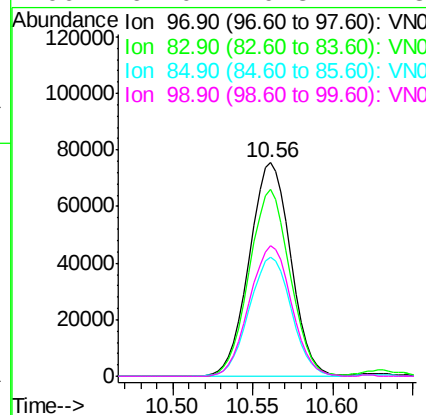
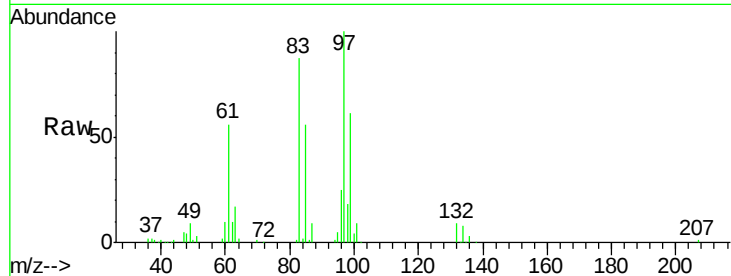
#55
 1,1,2-Trichloroethane
 Concen: 20.623 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		133687		
83	87.4	70.1	105.1		
85	55.8	45.4	68.0		
99	61.0	49.8	74.8		

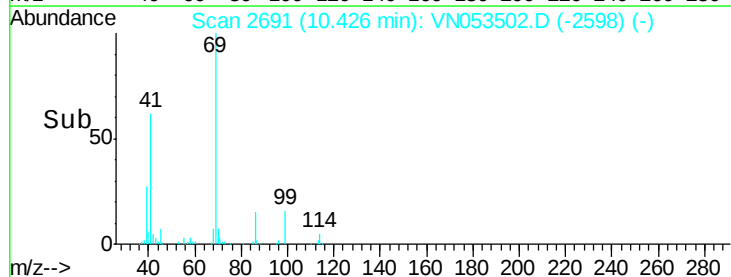
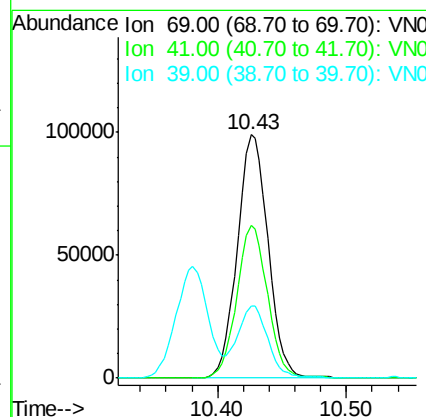
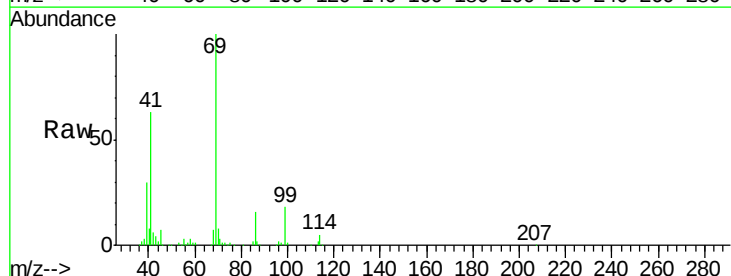
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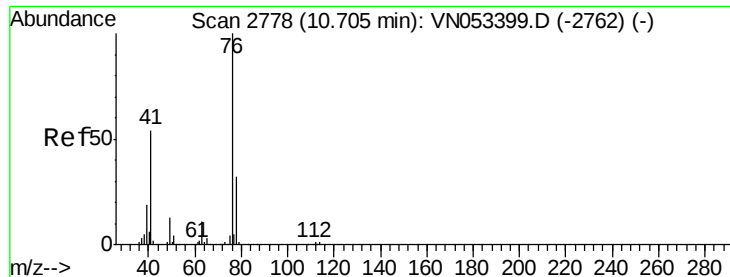
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#56
 Ethyl methacrylate
 Concen: 19.200 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		164475		
41	61.5	49.4	74.0		
39	28.8	23.3	34.9		





#57

1,3-Dichloropropane

Concen: 20.343 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 76 Resp: 228123

Ion Ratio Lower Upper

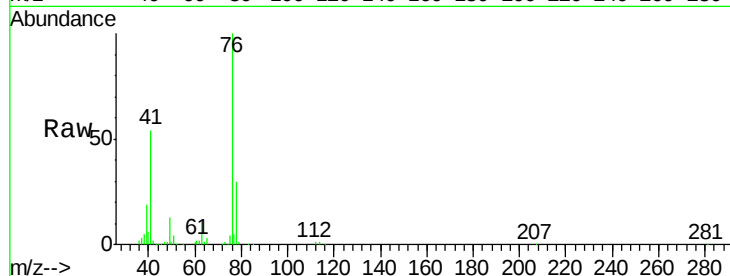
76 100

78 31.1 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

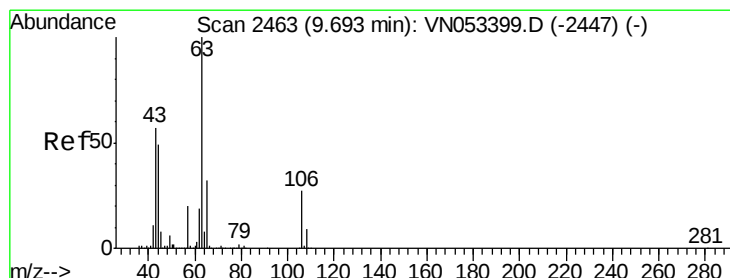
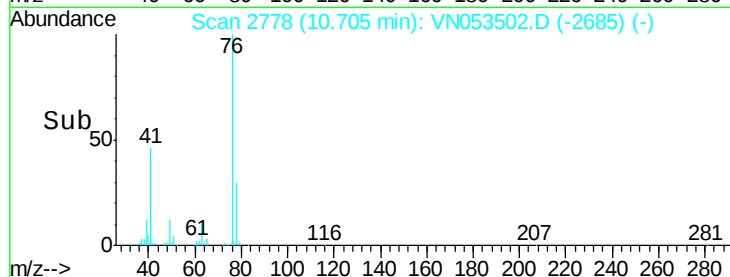
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 100.447 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053502.D

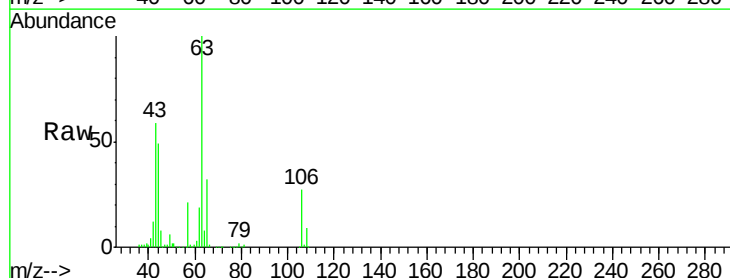
Acq: 21 Jan 2019 13:11

Tgt Ion: 63 Resp: 455529

Ion Ratio Lower Upper

63 100

106 27.4 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

300000

250000

200000

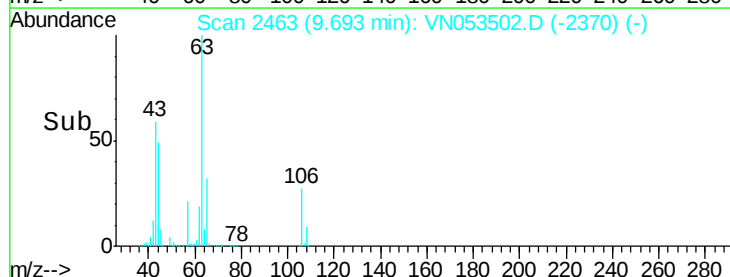
150000

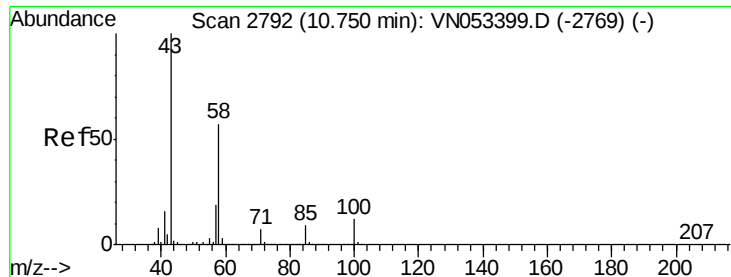
100000

50000

0

Time--> 9.60 9.65 9.70 9.75 9.80





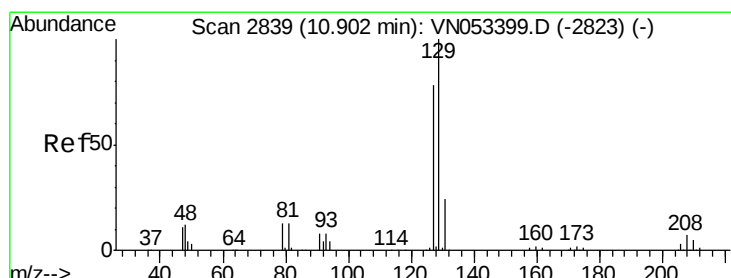
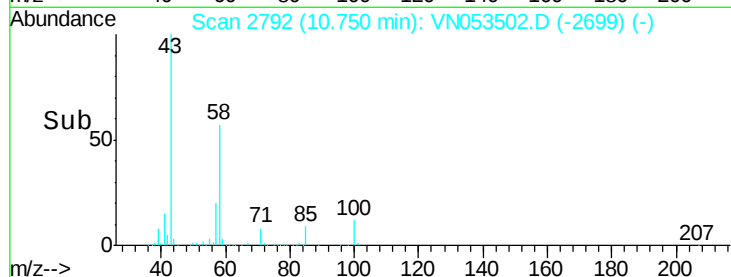
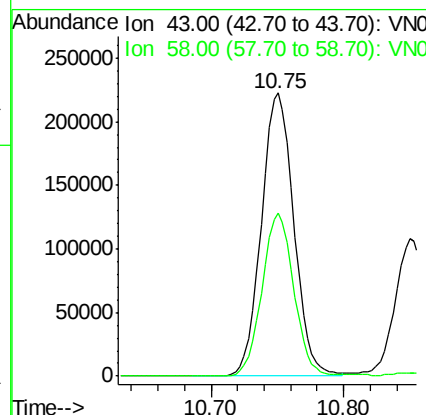
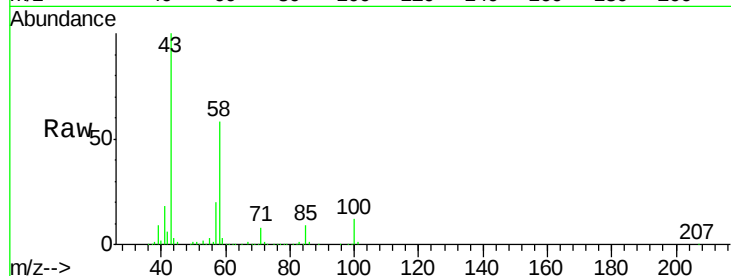
#59
2-Hexanone
Concen: 95.526 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion: 43 Resp: 377432
Ion Ratio Lower Upper
43 100
58 56.8 28.6 85.8

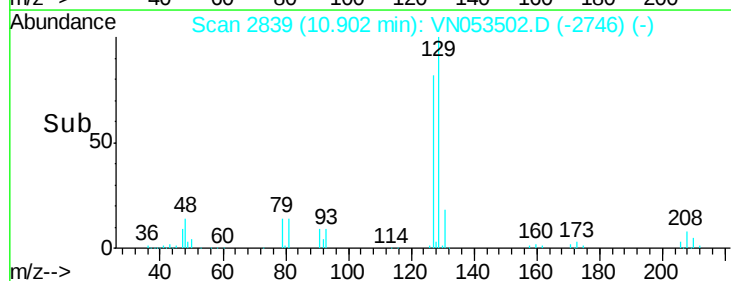
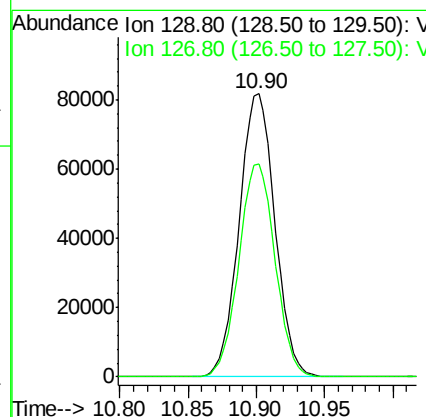
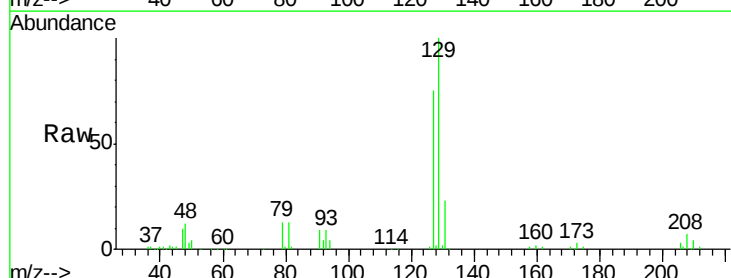
Manual Integrations
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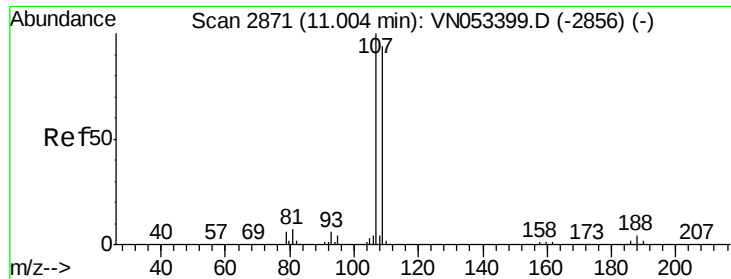
MMDadoda
1/22/2019 9:47:36 AM



#60
Dibromochloromethane
Concen: 20.271 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion: 129 Resp: 149040
Ion Ratio Lower Upper
129 100
127 75.9 38.6 115.8





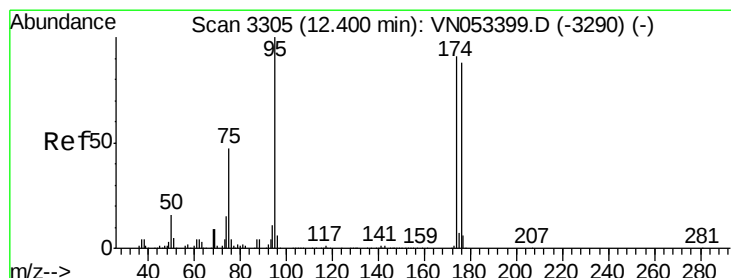
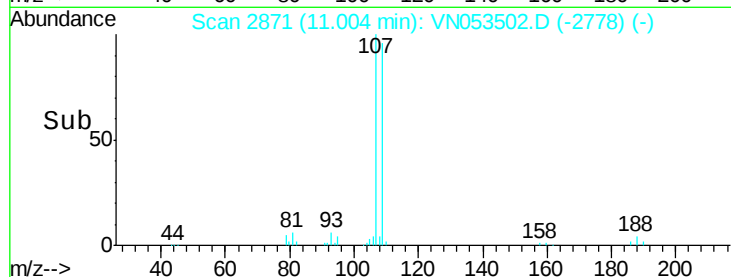
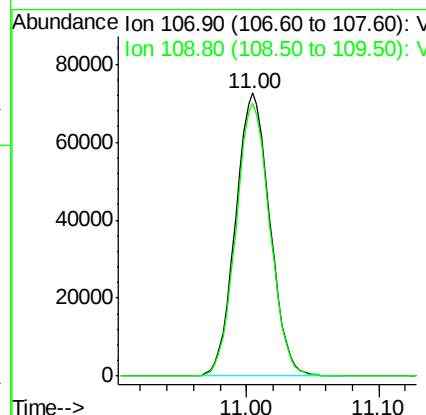
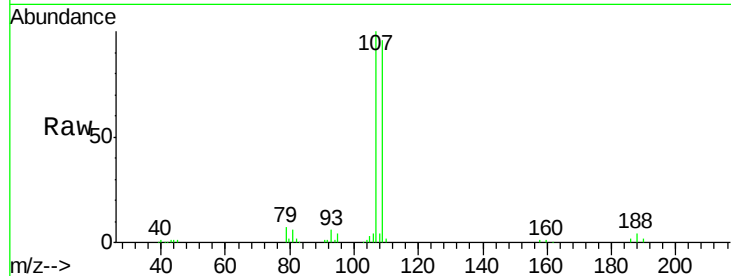
#61
 1,2-Dibromoethane
 Concen: 19.843 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.3	75.7	113.5

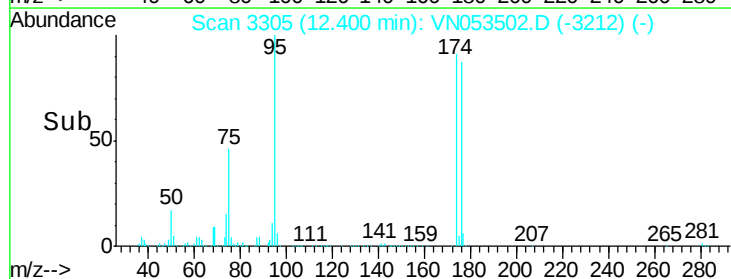
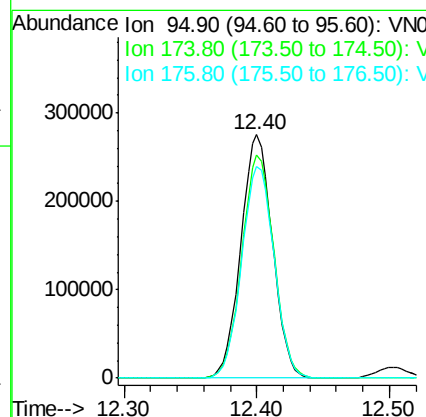
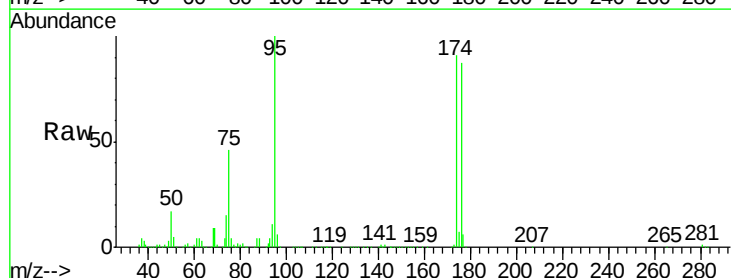
Manual Integrations
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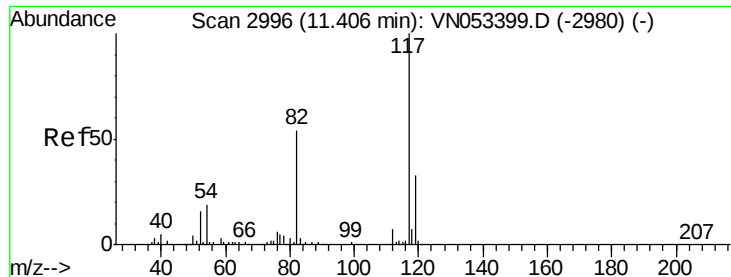
MMDadoda
 1/22/2019 9:47:36 AM



#62
 4-Bromofluorobenzene
 Concen: 19.843 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.9	0.0	183.2
176	89.5	0.0	177.4





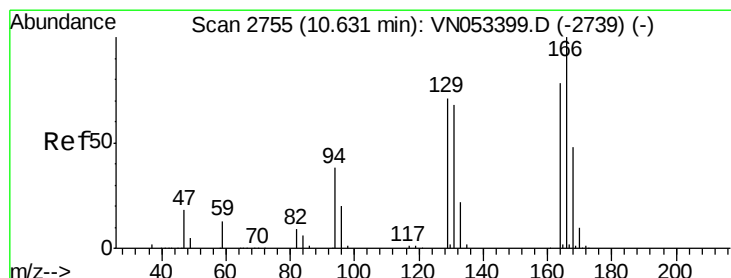
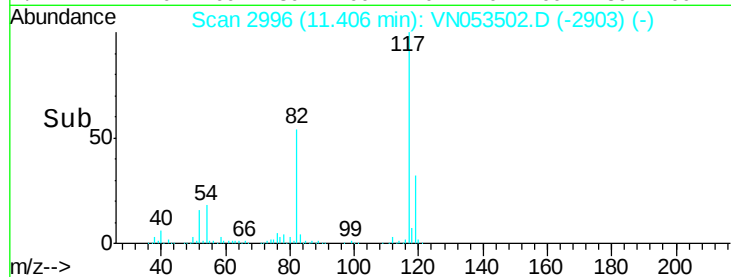
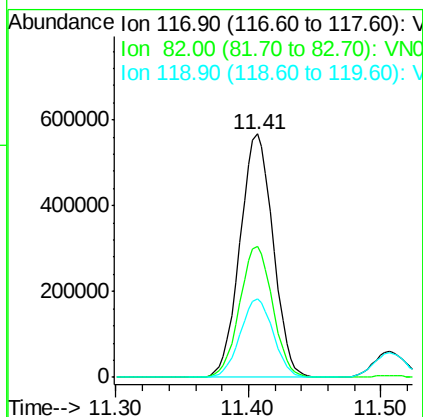
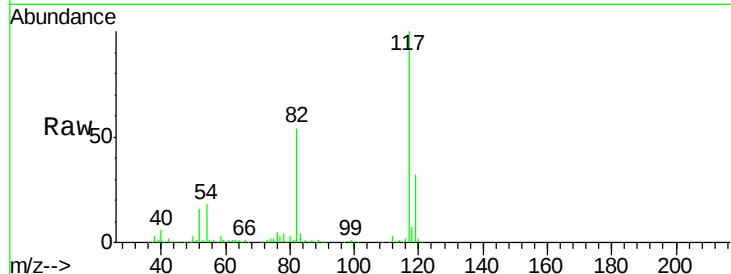
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	982002		
82	53.6		42.9	64.3
119	32.3		26.0	39.0

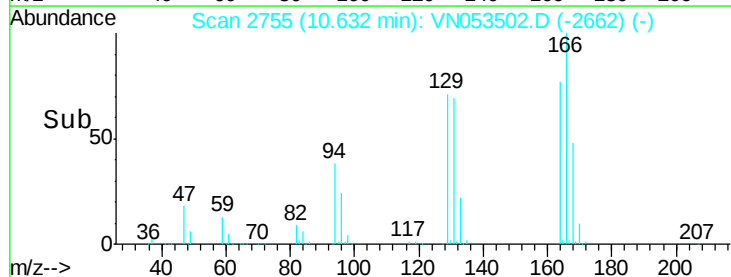
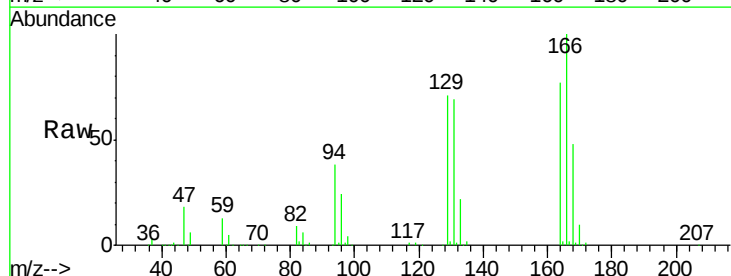
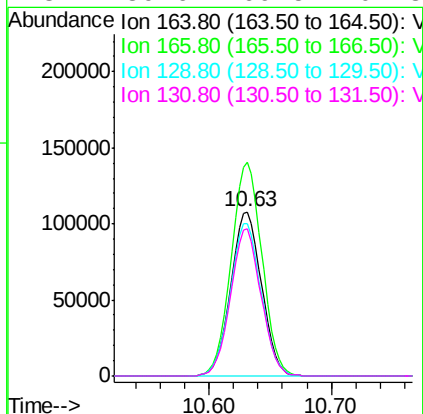
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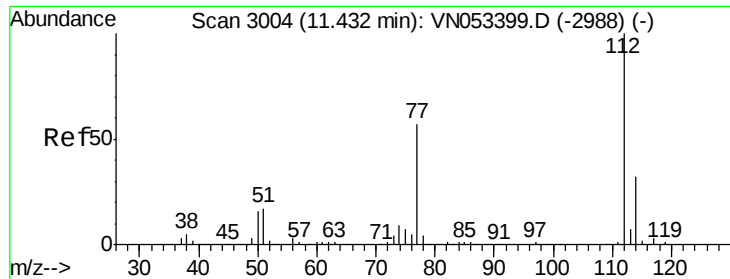
MMDadoda
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#64
Tetrachloroethene
Concen: 20.454 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	189288		
166	130.4		102.2	153.4
129	92.9		72.6	109.0
131	89.6		69.5	104.3





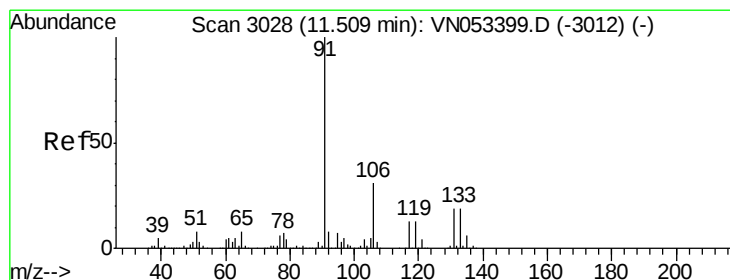
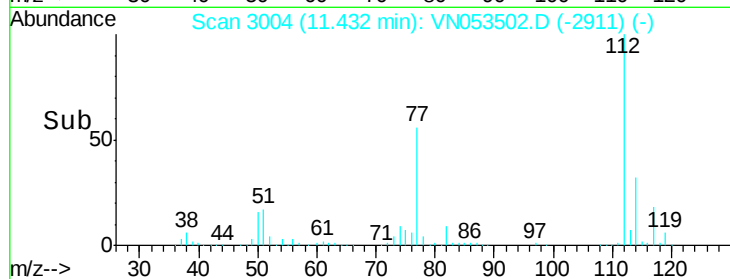
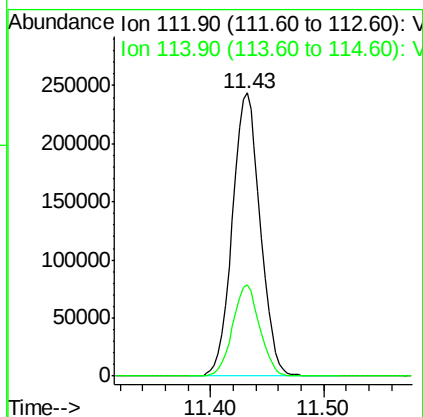
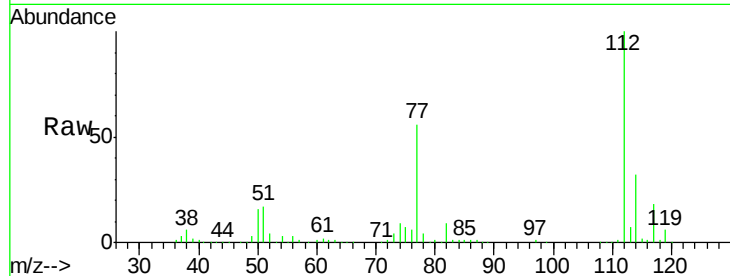
#65
Chlorobenzene
Concen: 20.066 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion:112 Resp: 417087
Ion Ratio Lower Upper
112 100
114 32.1 25.3 37.9

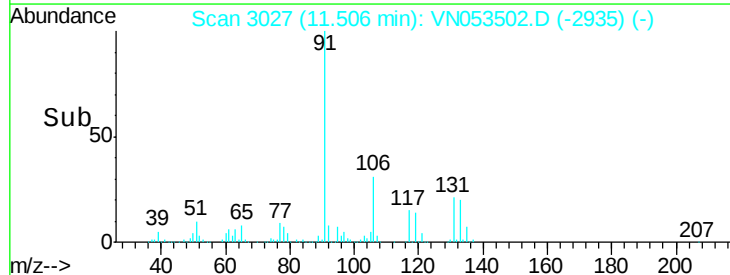
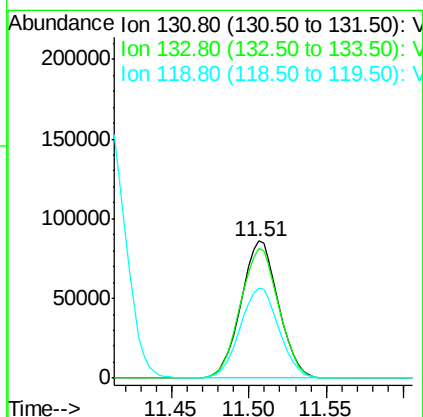
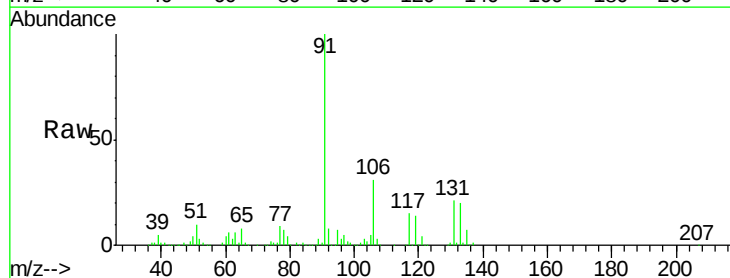
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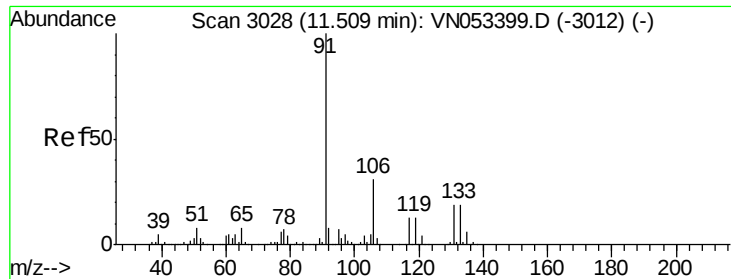
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.116 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion:131 Resp: 145456
Ion Ratio Lower Upper
131 100
133 96.7 48.0 144.0
119 67.6 33.5 100.5





#67

Ethyl Benzene

Concen: 19.799 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 91 Resp: 701362

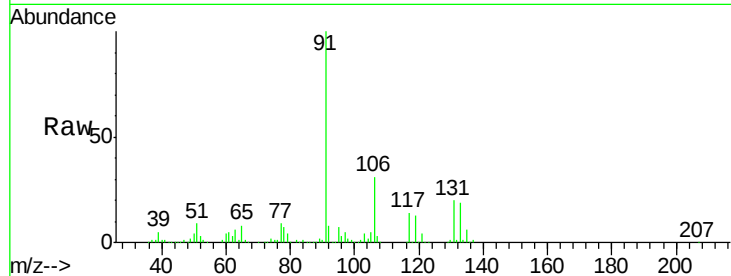
Ion Ratio Lower Upper

91 100

106 31.4 25.0 37.6

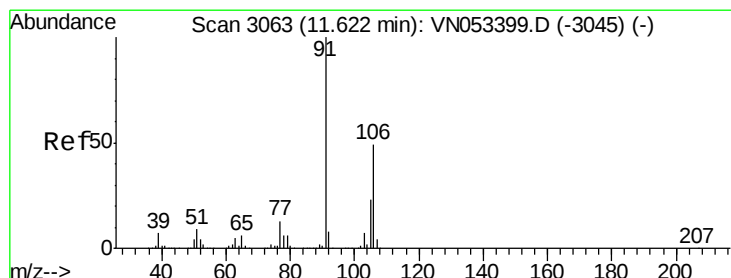
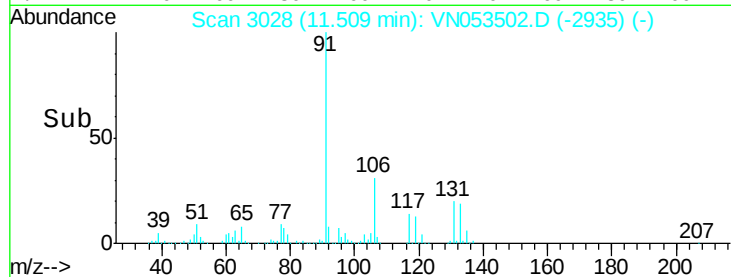
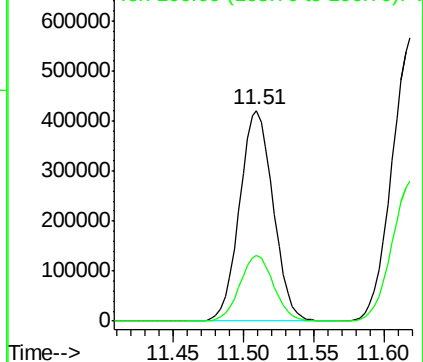
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 40.457 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN053502.D

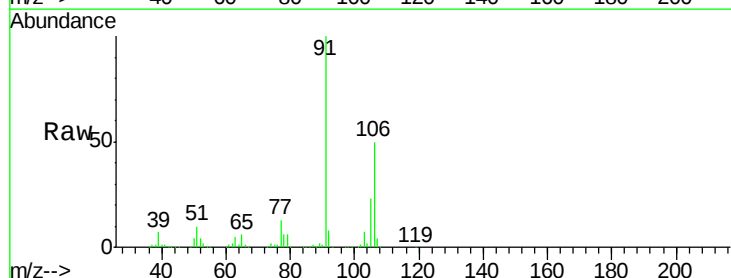
Acq: 21 Jan 2019 13:11

Tgt Ion: 106 Resp: 541095

Ion Ratio Lower Upper

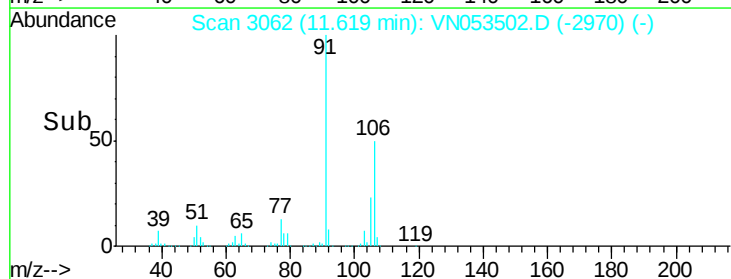
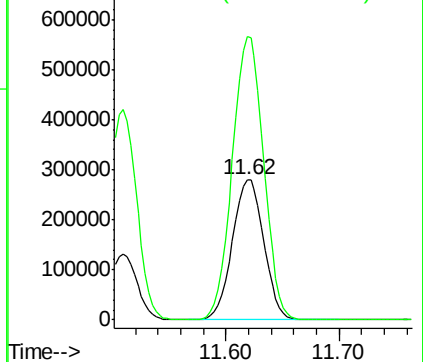
106 100

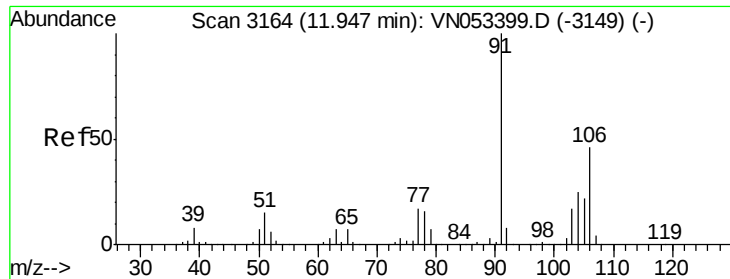
91 201.2 161.4 242.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





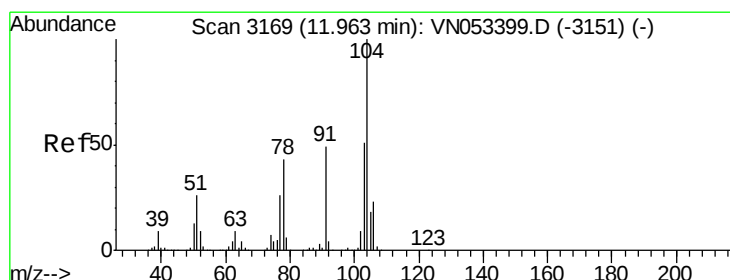
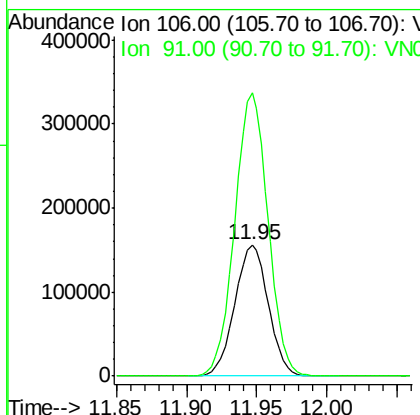
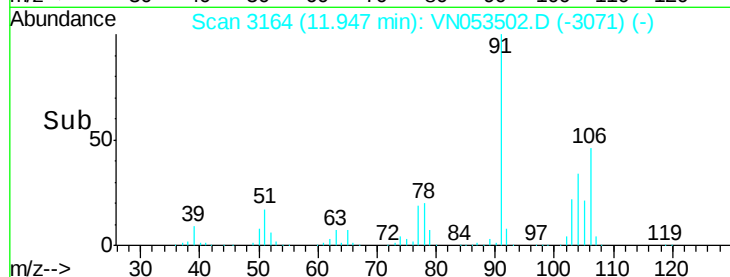
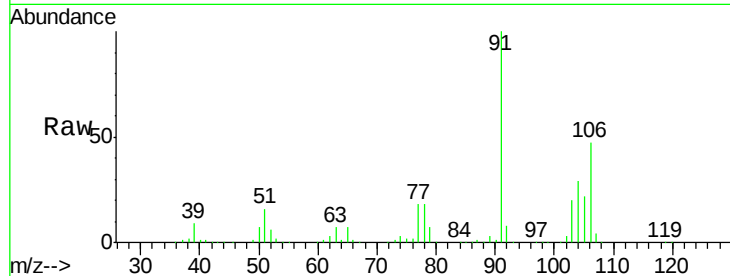
#69
o-Xylene
Concen: 20.013 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion:106 Resp: 260085
Ion Ratio Lower Upper
106 100
91 214.3 106.9 320.8

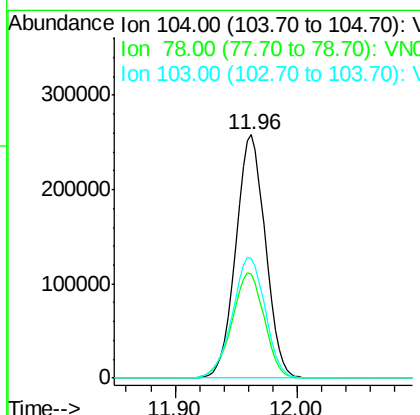
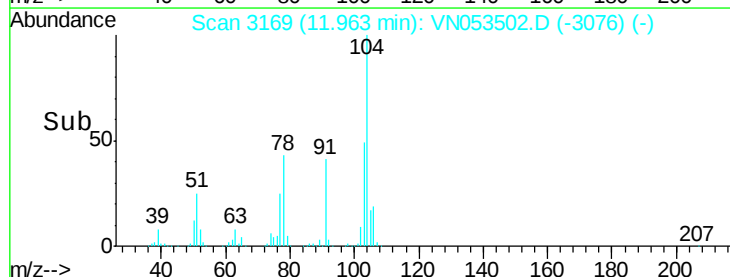
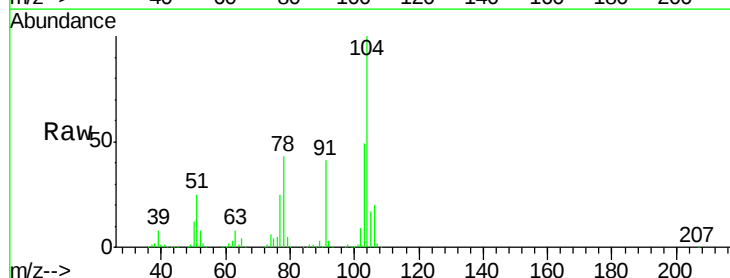
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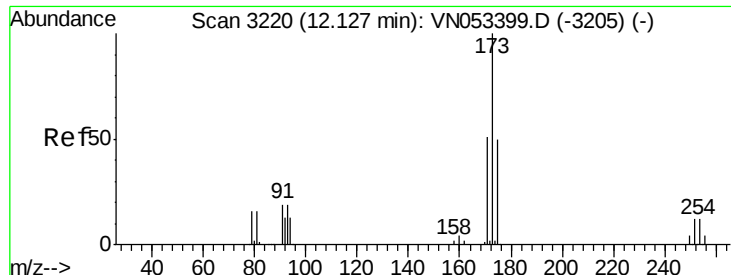
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#70
Styrene
Concen: 20.491 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion:104 Resp: 432191
Ion Ratio Lower Upper
104 100
78 47.8 38.2 57.2
103 54.9 44.4 66.6





#71

Bromoform

Concen: 20.395 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

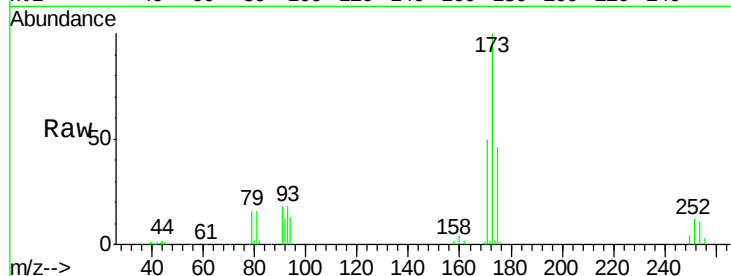
ClientSampleId :

VN0121WBSD01

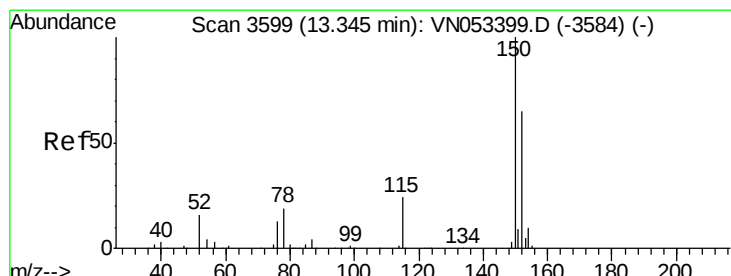
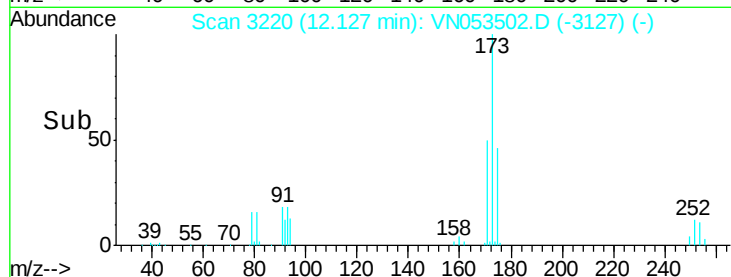
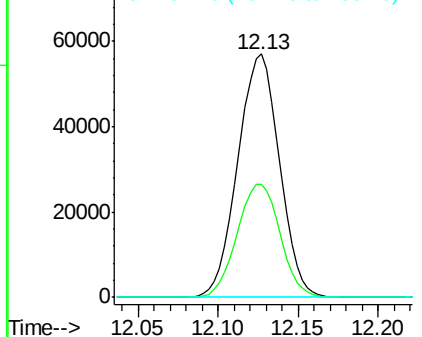
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.6	74.0
254	0.0	0.2	0.2

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

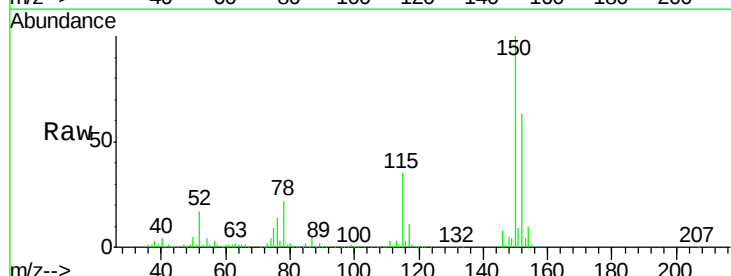
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

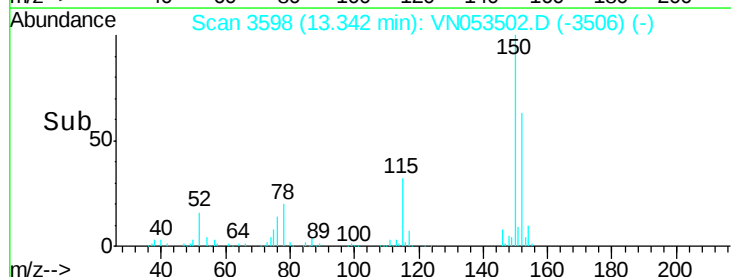
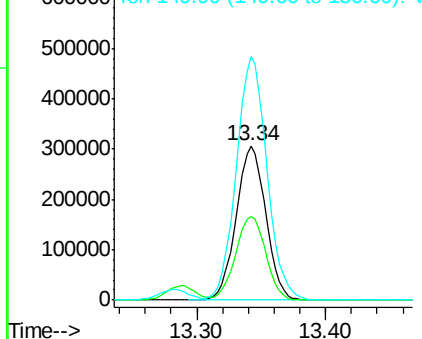
Lab File: VN053502.D

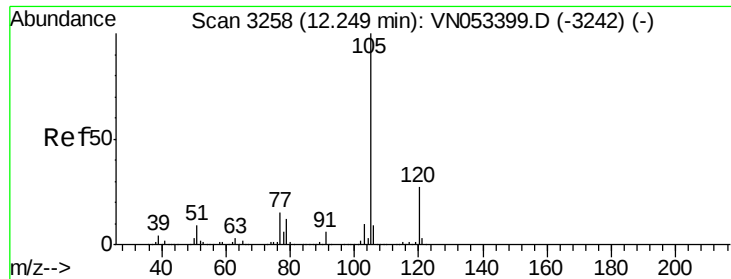
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.4
150	163.8	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





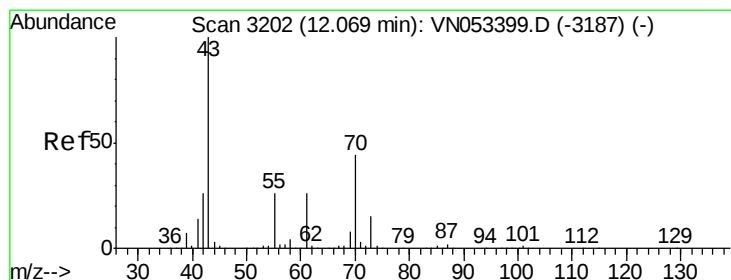
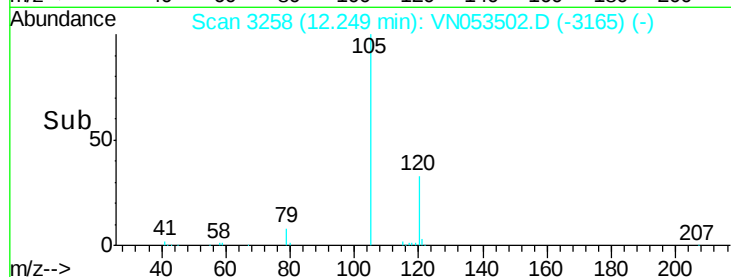
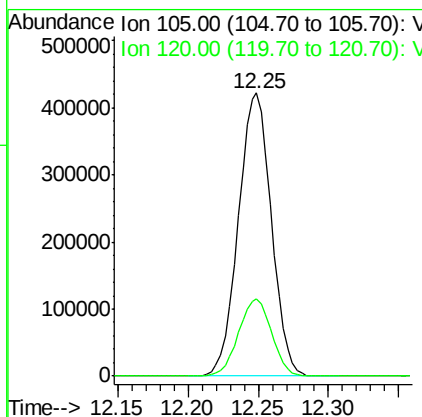
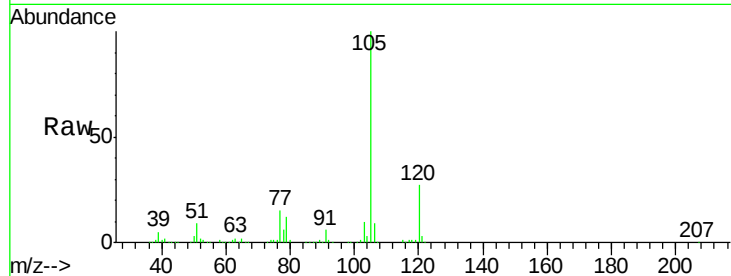
#73
Isopropylbenzene
Concen: 19.375 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.6	40.7

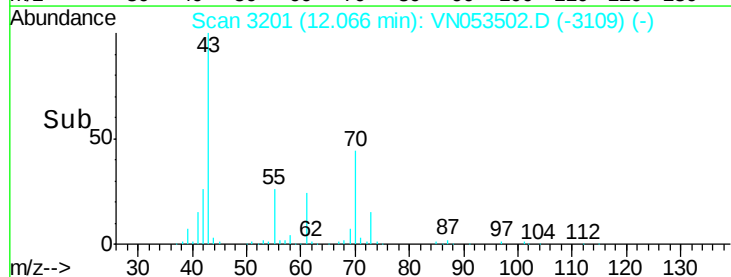
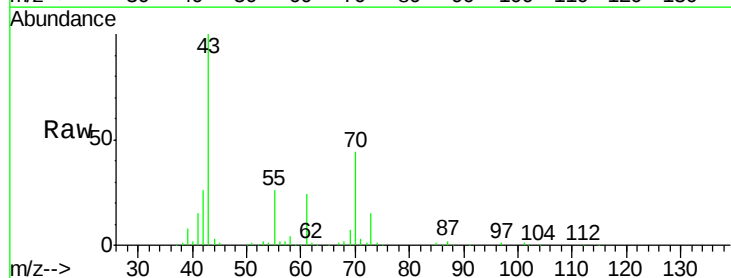
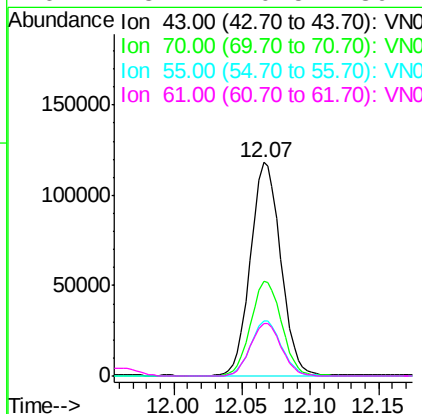
Manual Integrations
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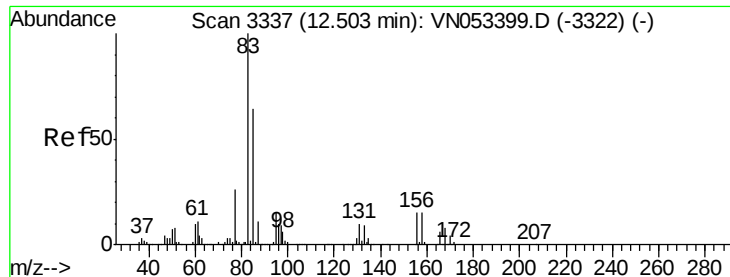
MMDadoda
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#74
N-ethyl acetate
Concen: 19.205 ug/l
RT: 12.07 min Scan# 3201
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.5	35.4	53.2
55	26.6	20.9	31.3
61	25.1	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 18.969 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 83 Resp: 141817
Ion Ratio Lower Upper

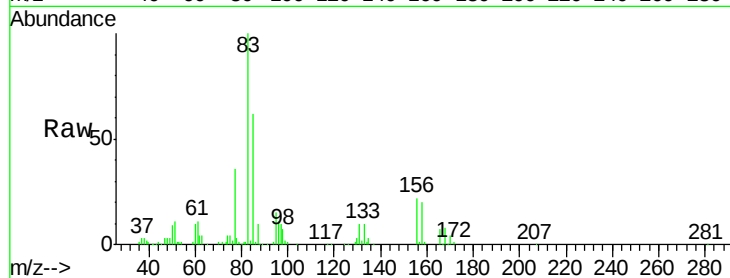
83 100

131 10.5 5.3 15.8

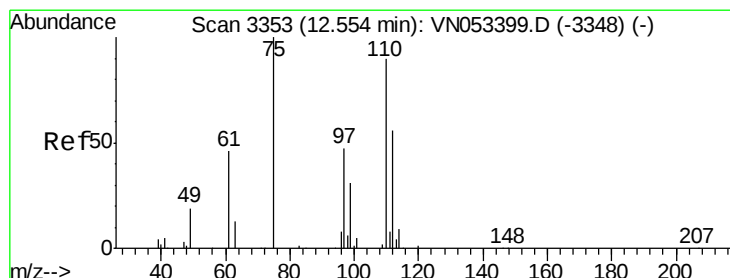
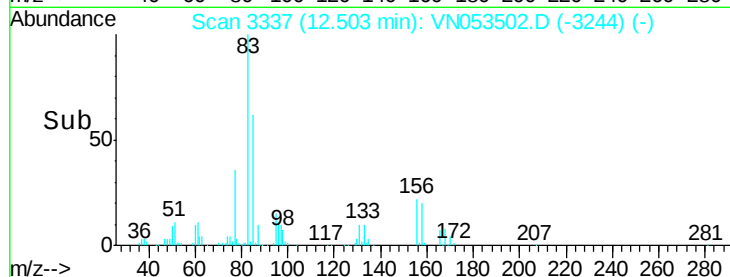
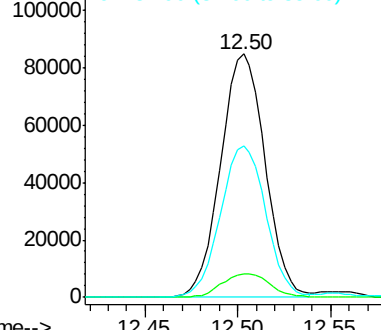
85 63.2 32.1 96.3

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 20.904 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

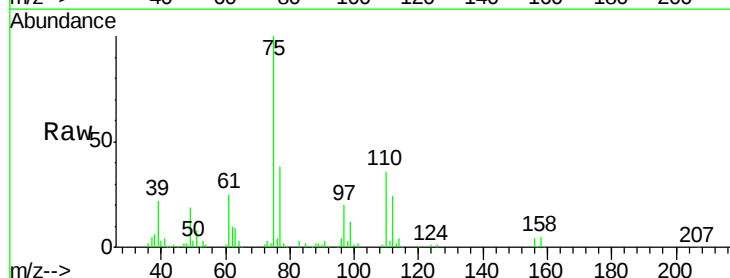
Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

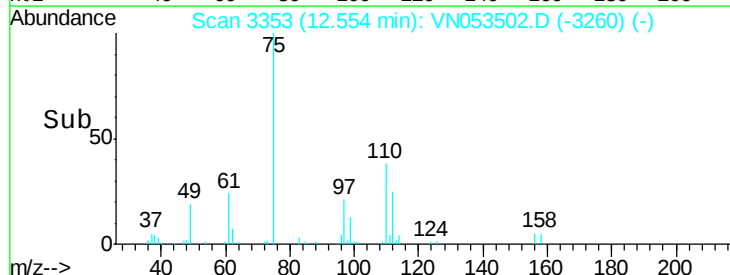
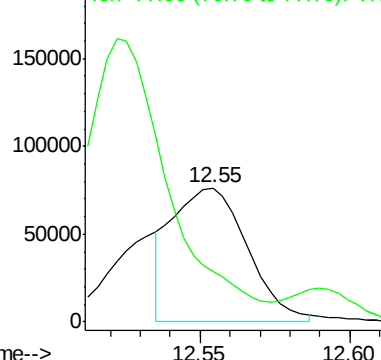
Tgt Ion: 75 Resp: 134101
Ion Ratio Lower Upper

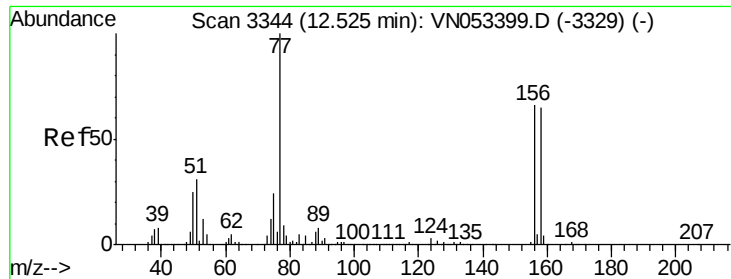
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 19.352 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

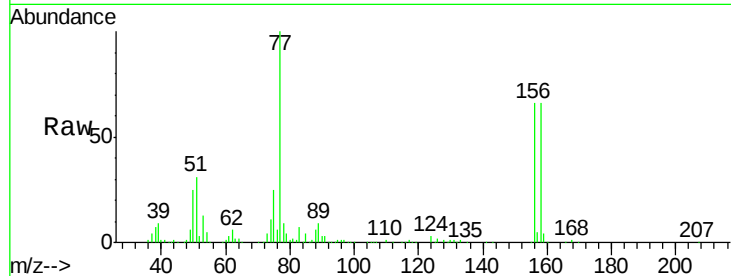
ClientSampleId :

VN0121WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		181779		
77	176.6	87.9	263.8		
158	100.3	48.8	146.4		

Manual Integrations
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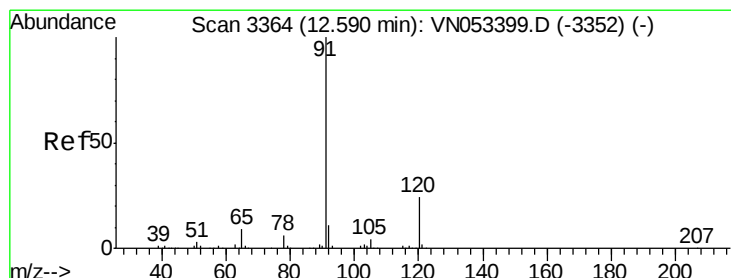
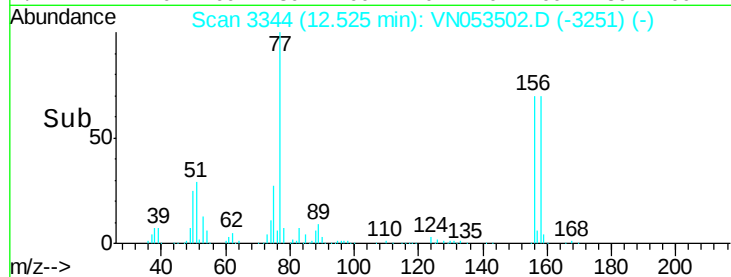
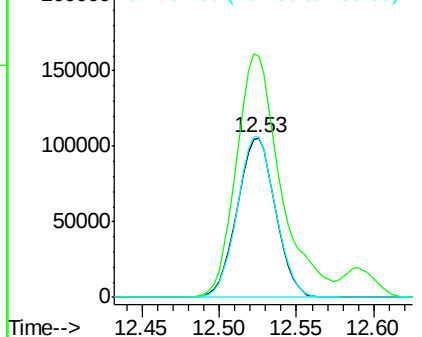
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.525 ug/l

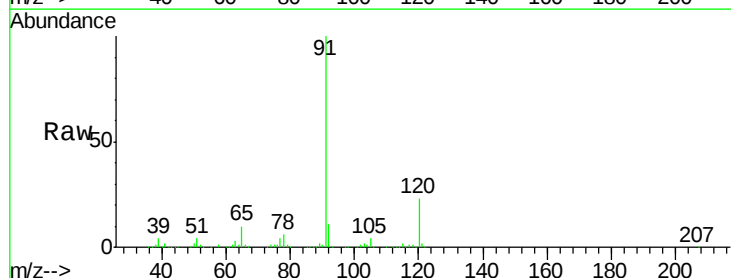
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053502.D

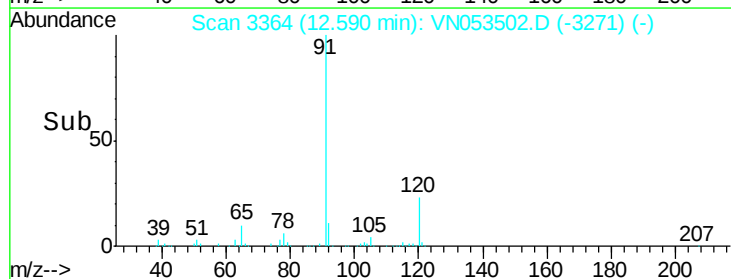
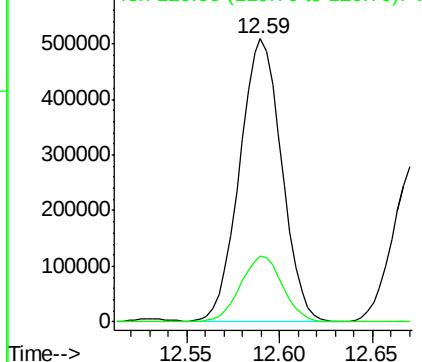
Acq: 21 Jan 2019 13:11

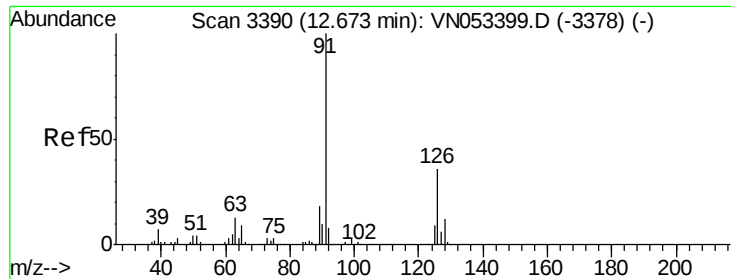
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		798949		
120	23.4	11.9	35.5		



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.624 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

ClientSampleId :

VN0121WBSD01

Tot Ion: 91 Resp: 475962

Ion Ratio Lower Upper

91 100

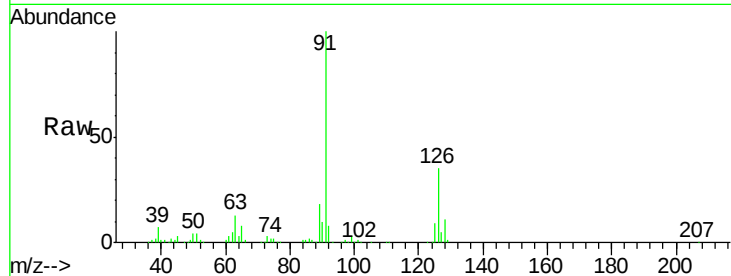
126 35.7 17.9 53.7

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN053399.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053399.D (-3378) (-)

500000

400000

300000

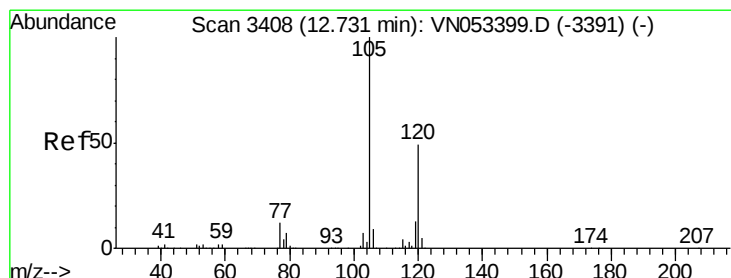
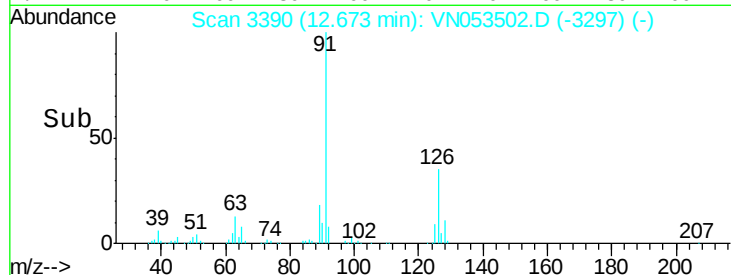
200000

100000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.901 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053502.D

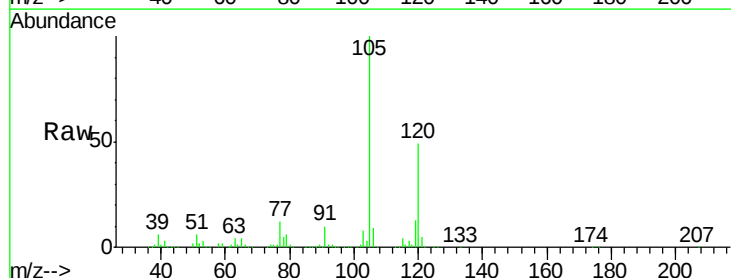
Acq: 21 Jan 2019 13:11

Tgt Ion: 105 Resp: 577207

Ion Ratio Lower Upper

105 100

120 49.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053399.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN053399.D (-3391) (-)

400000

300000

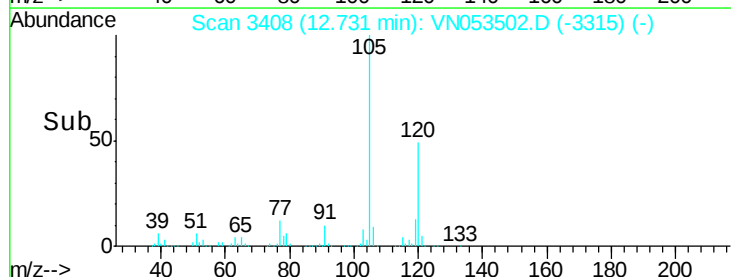
200000

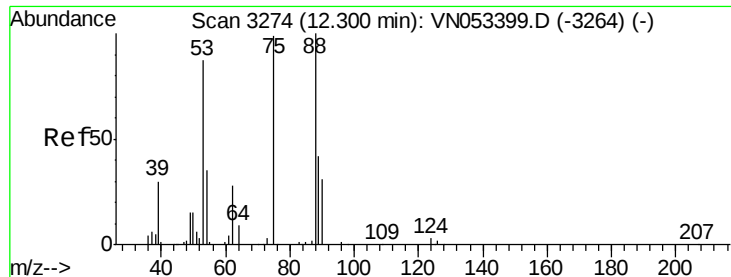
100000

0

12.65 12.70 12.75 12.80

Time-->





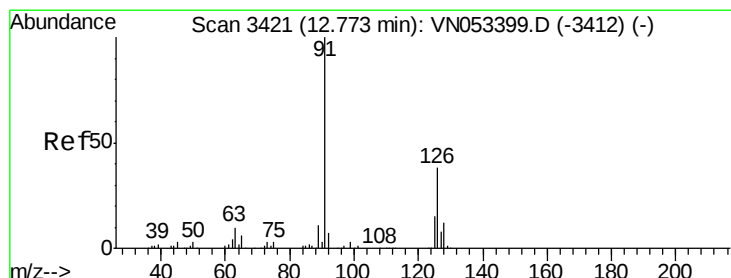
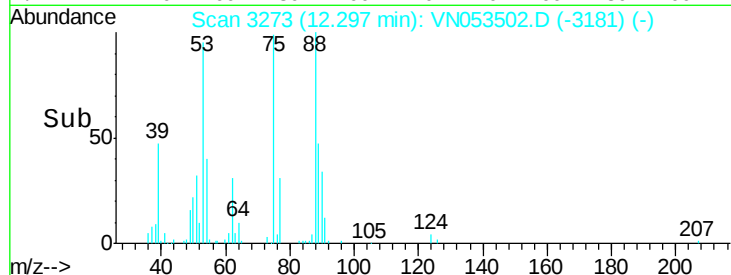
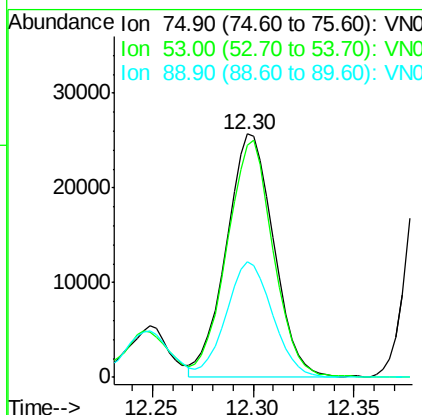
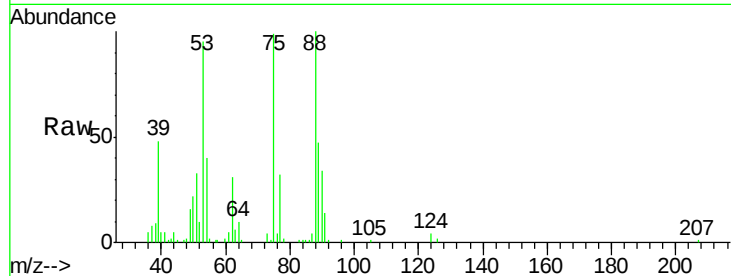
#81
trans-1,4-Dichloro-2-butene
Concen: 18.378 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	95.2	69.8	104.6
89	46.4	35.6	53.4

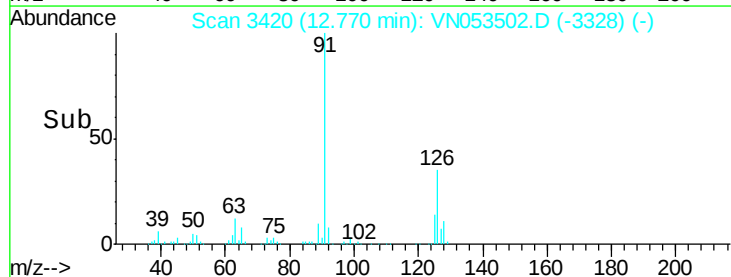
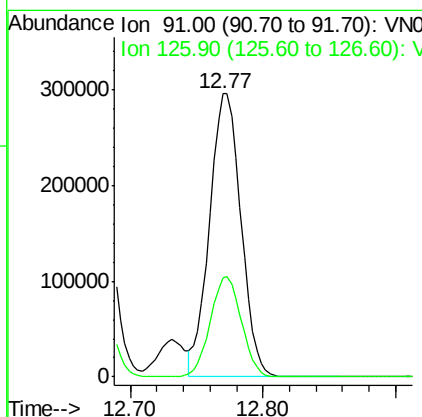
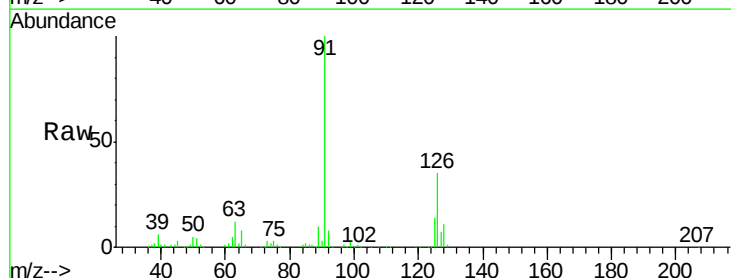
Manual Integrations
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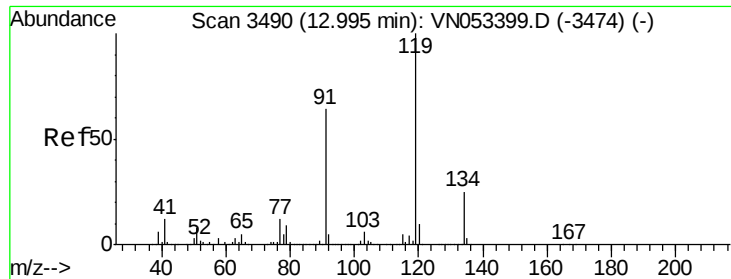
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#82
4-Chlorotoluene
Concen: 19.678 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.6	52.9





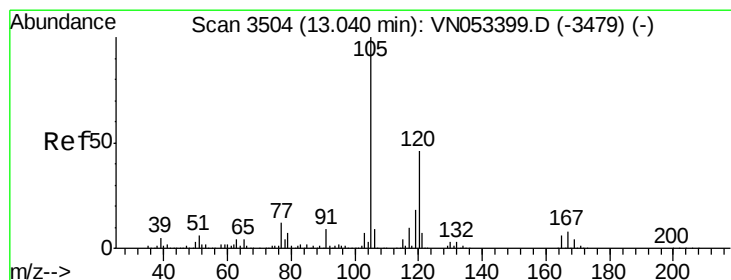
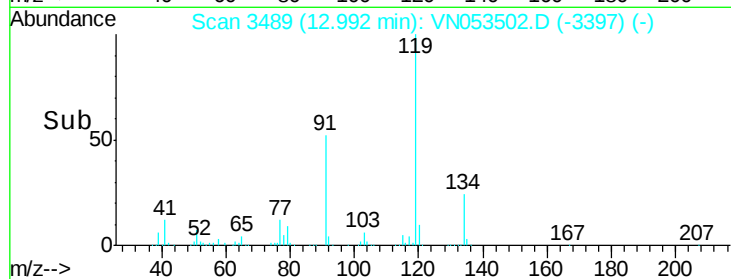
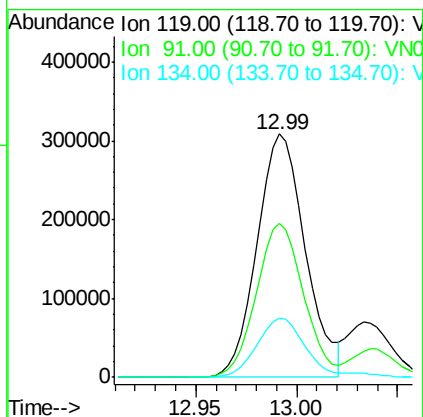
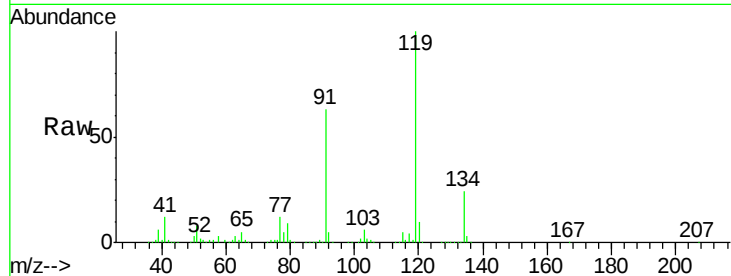
#83
tert-Butylbenzene
Concen: 20.100 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.9	31.3	93.8
134	25.2	12.9	38.7

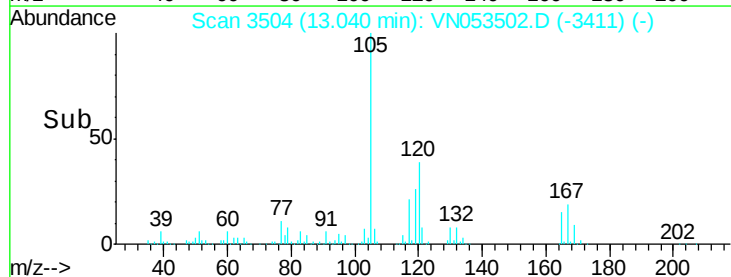
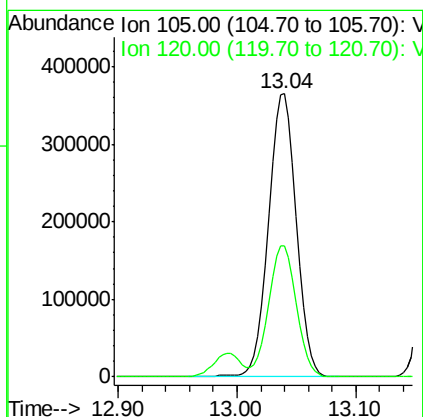
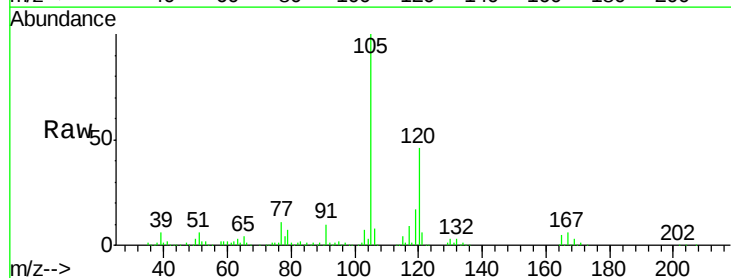
Manual Integrations
APPROVED

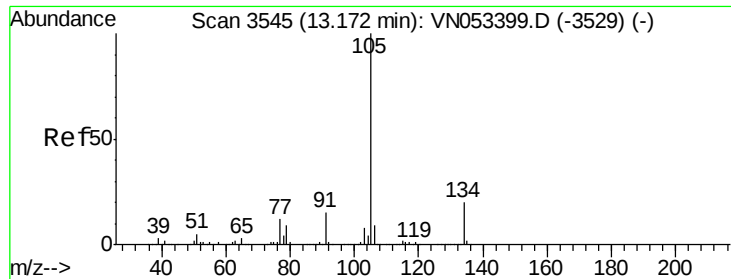
MMDadoda
1/22/2019 9:47:36 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.173 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0





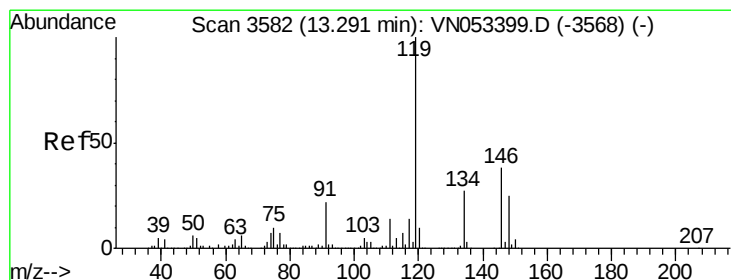
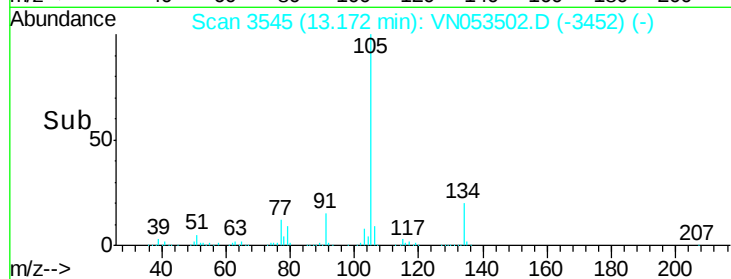
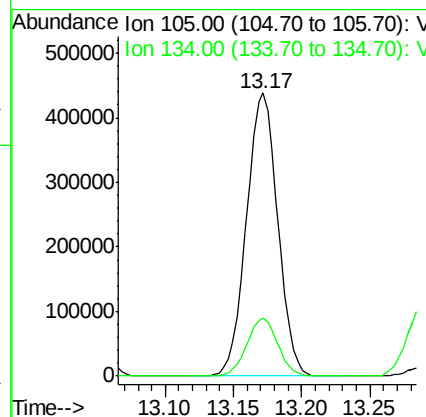
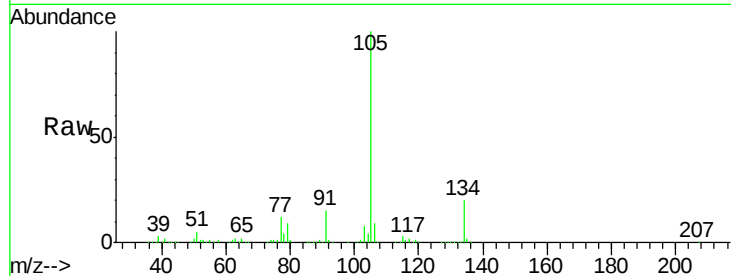
#85
 sec-Butylbenzene
 Concen: 19.809 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.6

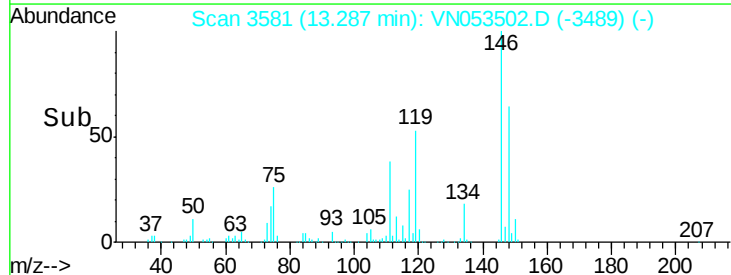
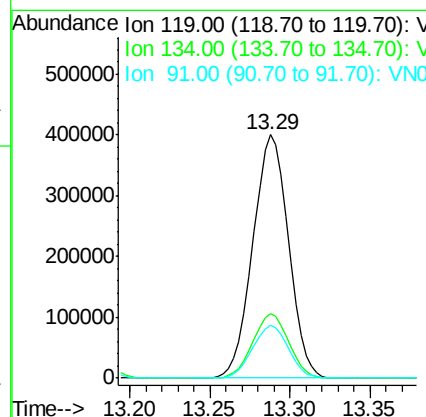
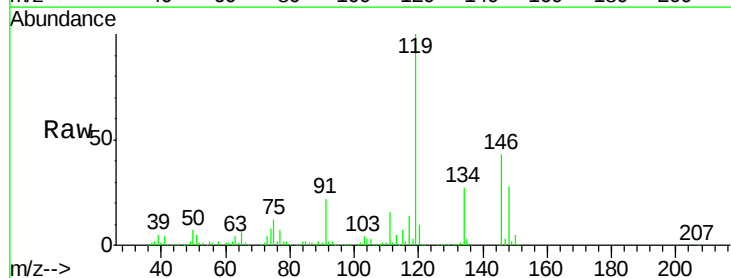
Manual Integrations
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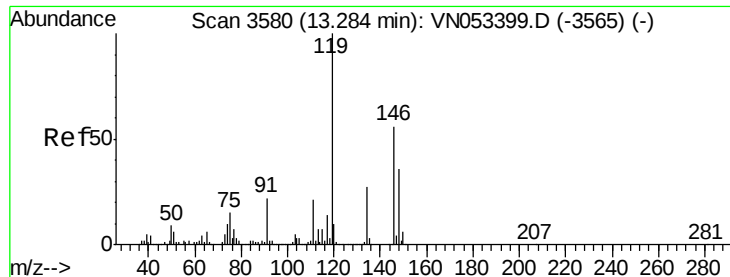
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#86
 p-Isopropyltoluene
 Concen: 19.958 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.5	40.4
91	21.9	11.0	33.0





#87

1,3-Dichlorobenzene

Concen: 19.677 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

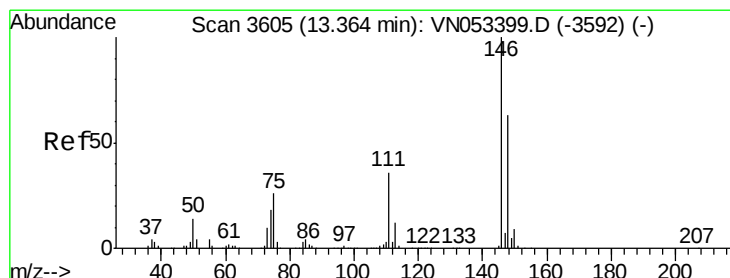
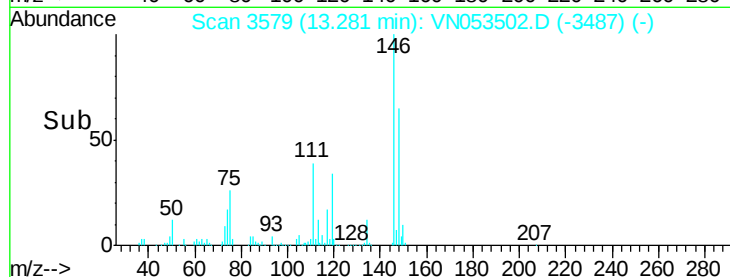
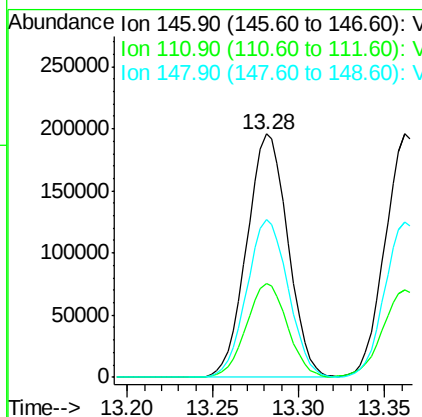
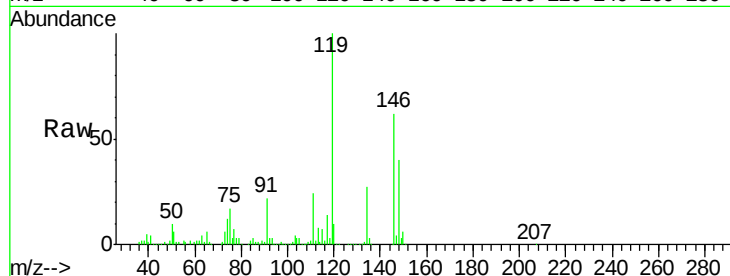
ClientSampleId :

VN0121WBSD01

Tot Ion:	146	Resp:	325131
Ion Ratio	Lower	Upper	
146	100		
111	38.5	18.8	56.3
148	65.4	32.0	96.2

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.487 ug/l

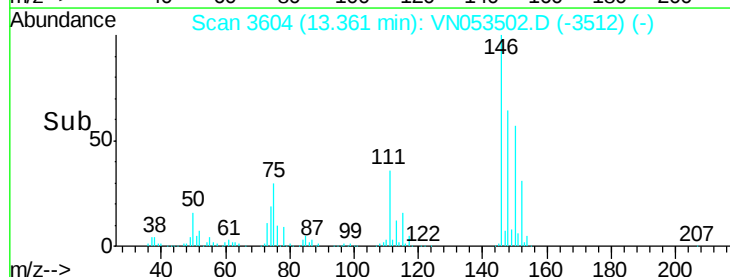
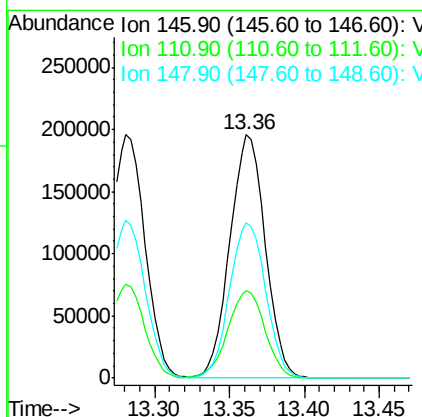
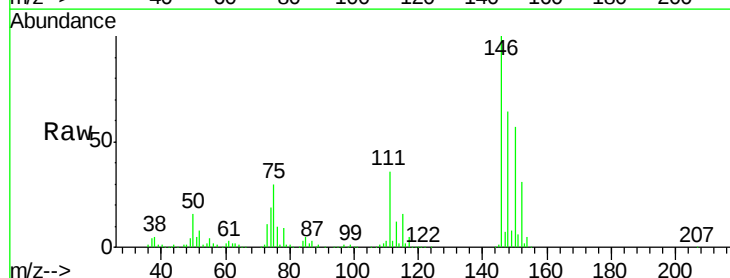
RT: 13.36 min Scan# 3604

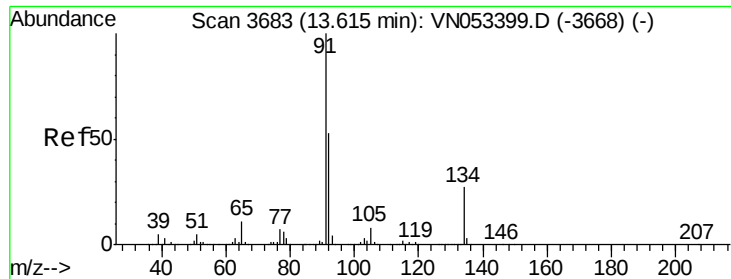
Delta R.T. -0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion:	146	Resp:	322982
Ion Ratio	Lower	Upper	
146	100		
111	37.8	18.6	55.8
148	65.3	32.4	97.0





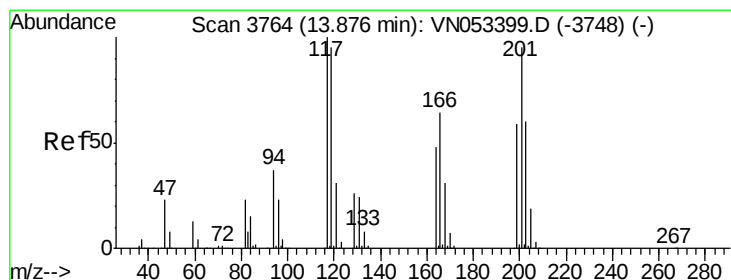
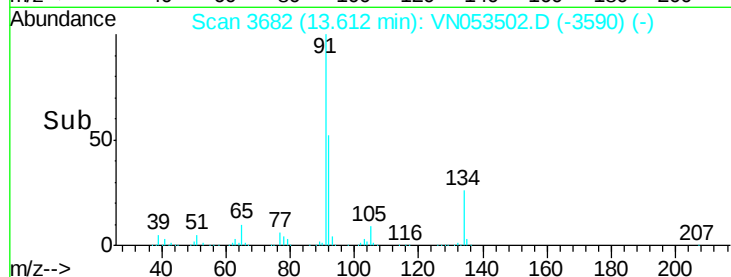
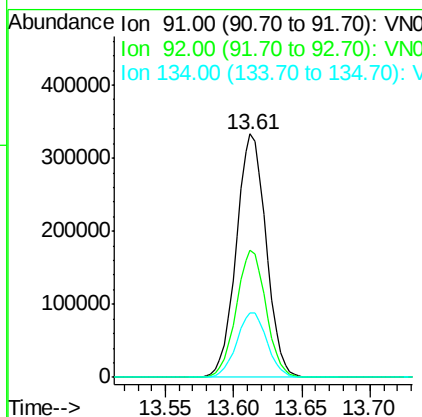
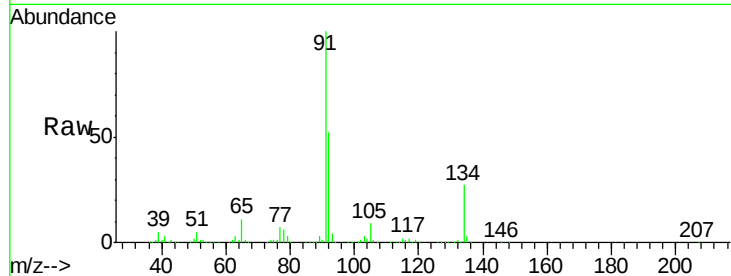
#89
n-Butylbenzene
Concen: 19.389 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Instrument :
MSVOA_N
ClientSampleId :
VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.3	78.8
134	27.1	13.5	40.5

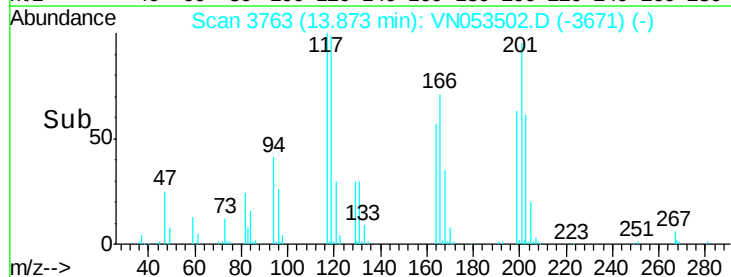
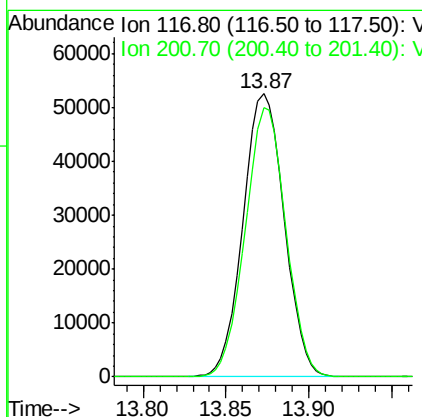
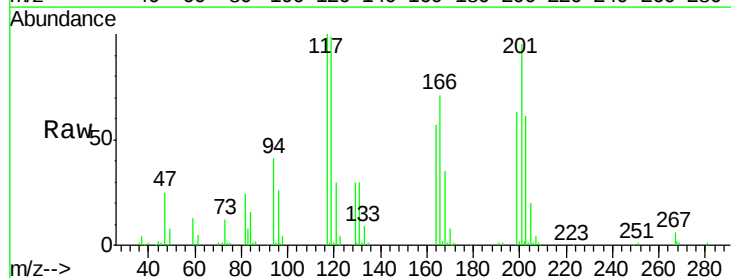
Manual Integrations
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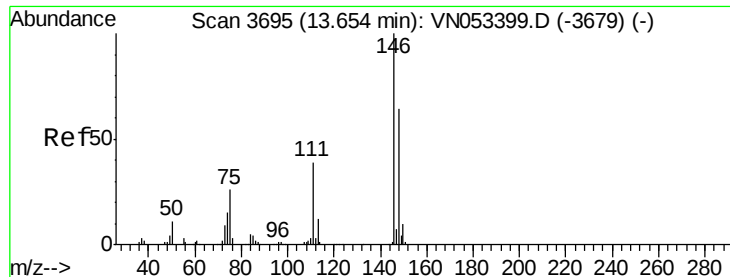
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#90
Hexachloroethane
Concen: 18.981 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053502.D
Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.6	46.8	140.4





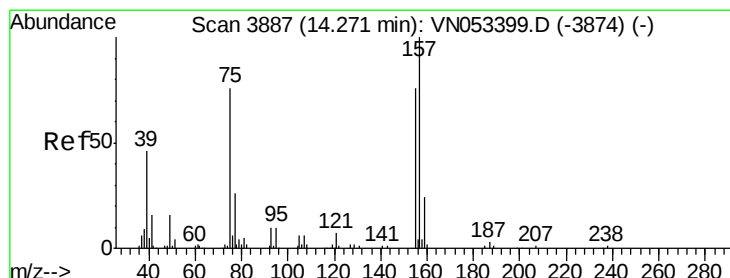
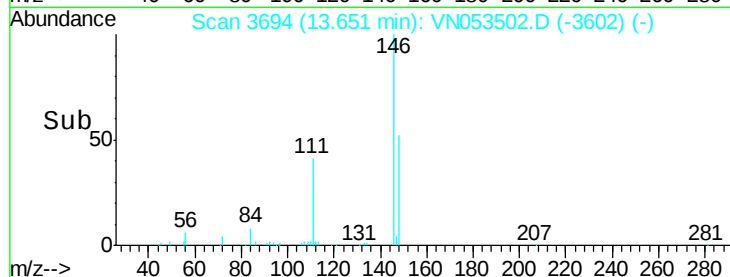
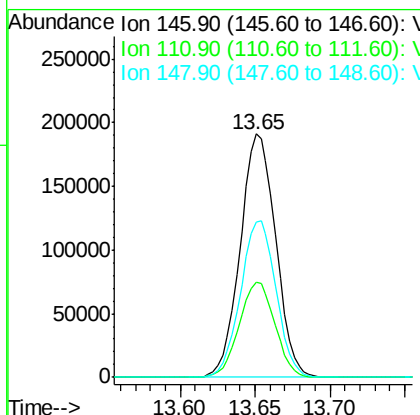
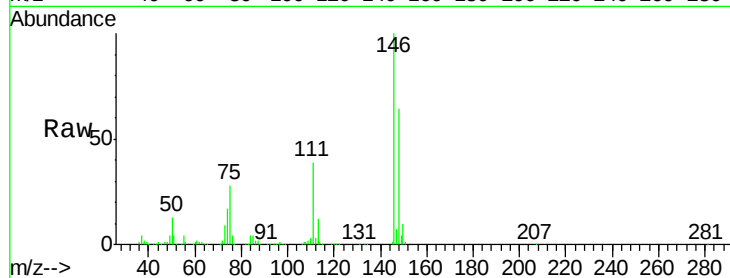
#91
 1,2-Dichlorobenzene
 Concen: 20.739 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.5	58.5
148	64.4	31.9	95.9

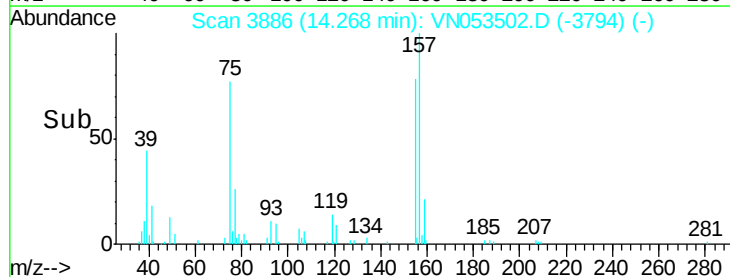
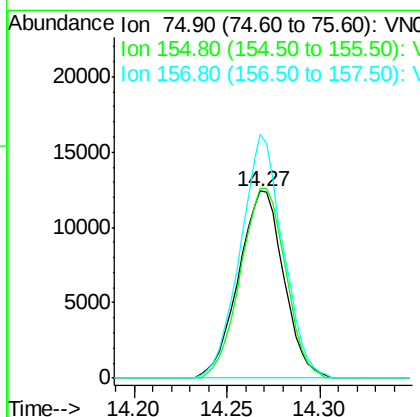
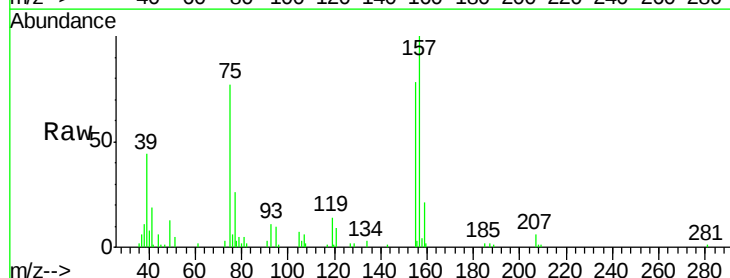
Manual Integrations
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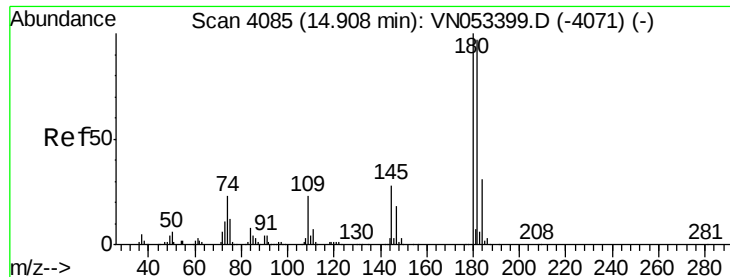
MMDadoda
 1/22/2019 9:47:36 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.178 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.8	48.9	146.7
157	122.4	63.7	191.3





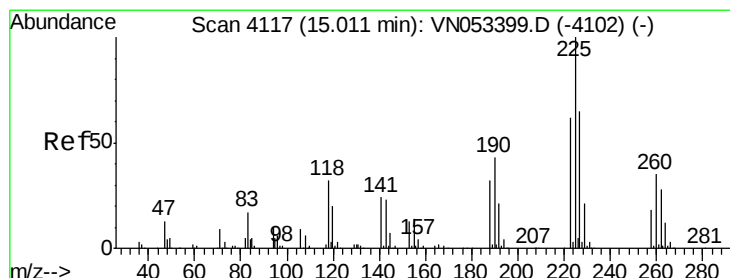
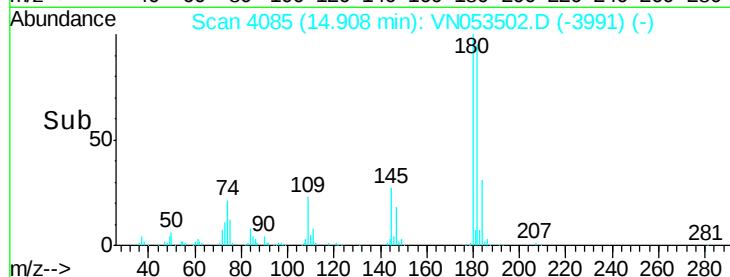
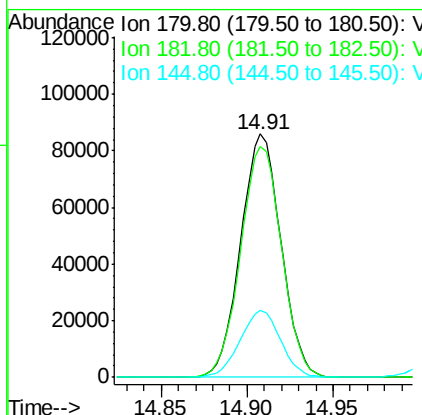
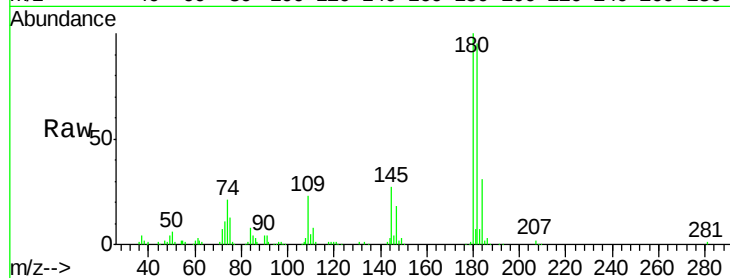
#93
 1,2,4-Trichlorobenzene
 Concen: 22.454 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0121WBSD01

Tot Ion:	180	Resp:	139782
Ion Ratio	Lower	Upper	
180	100		
182	96.5	48.1	144.3
145	27.7	13.9	41.6

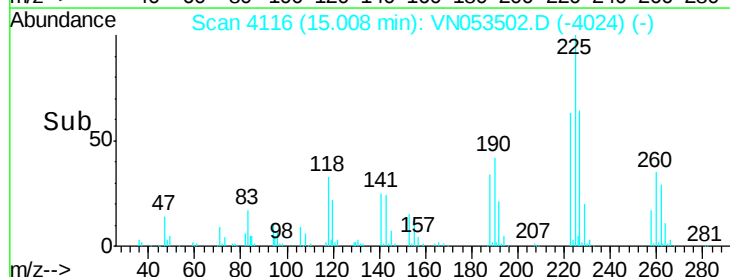
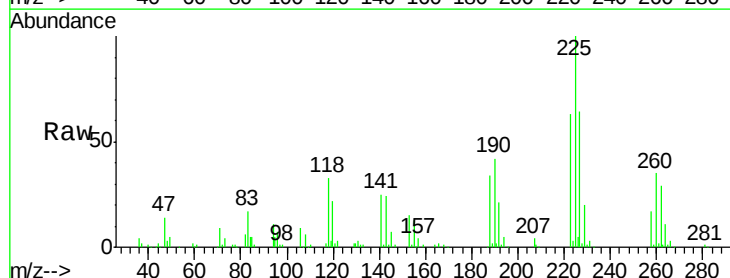
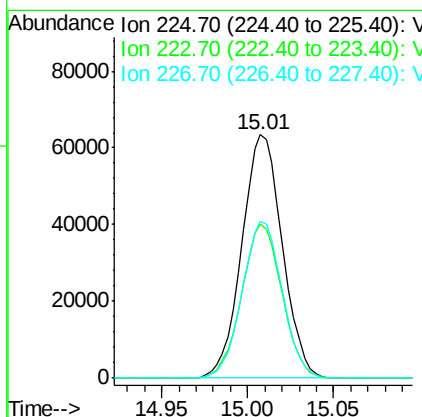
Manual Integrations
 APPROVED

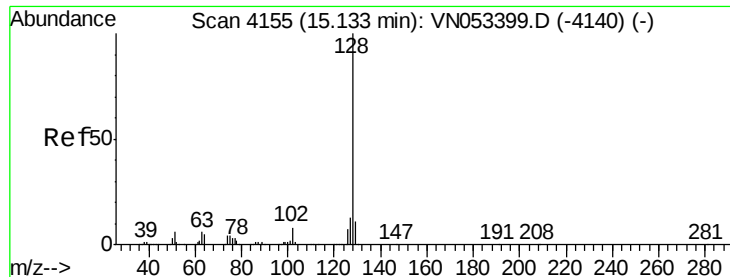
MMDadoda
 1/22/2019 9:47:36 AM



#94
 Hexachlorobutadiene
 Concen: 21.801 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN053502.D
 Acq: 21 Jan 2019 13:11

Tgt Ion:	225	Resp:	103381
Ion Ratio	Lower	Upper	
225	100		
223	63.0	31.1	93.2
227	63.9	32.0	96.2





#95

Naphthalene

Concen: 22.730 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Instrument :

MSVOA_N

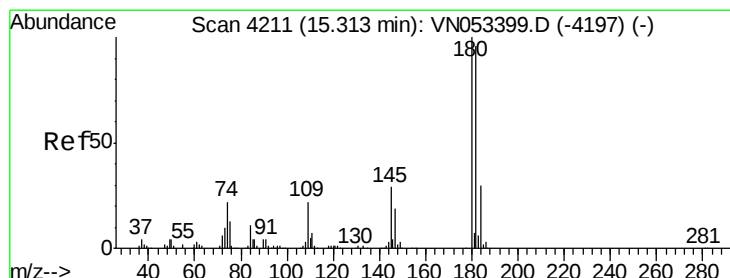
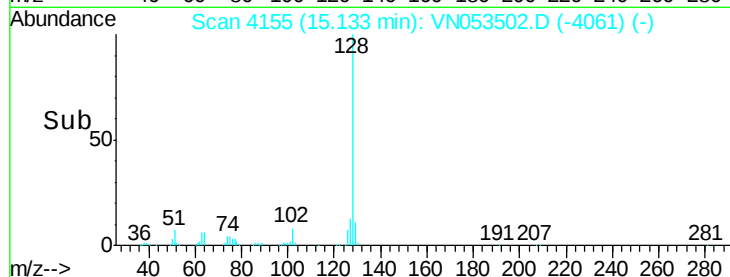
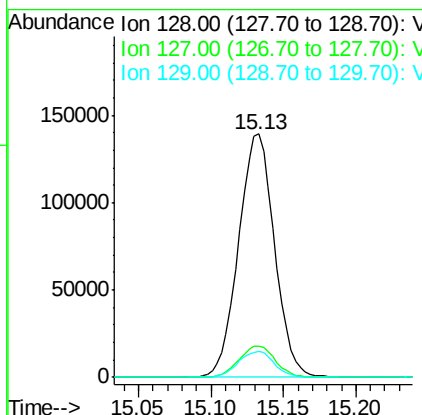
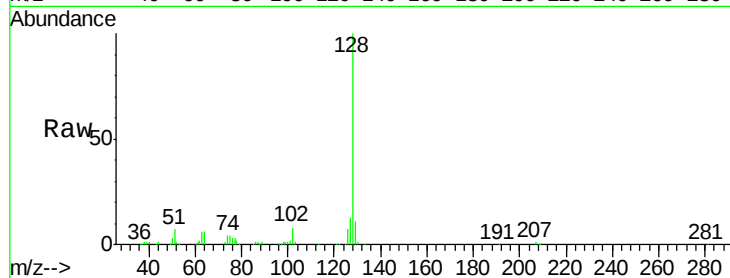
ClientSampleId :

VN0121WBSD01

Tot Ion:	128	Resp:	240040
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.3	15.5
129	10.7	8.6	13.0

Manual Integrations
APPROVED

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#96

1,2,3-Trichlorobenzene

Concen: 22.825 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053502.D

Acq: 21 Jan 2019 13:11

Tgt Ion:	180	Resp:	100727
Ion Ratio	Lower	Upper	
180	100		
182	97.8	47.9	143.8
145	29.4	14.7	44.1

