

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090119\
 Data File : VN057618.D
 Acq On : 31 Aug 2019 16:59
 Operator : JC/SP
 Sample : VN0901WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/3/2019 11:52:15 AM

Quant Time: Sep 01 00:13:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	190144	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	322388	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	290901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	115158	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	215852	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
35) Dibromofluoromethane	7.58	113	137712	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
50) Toluene-d8	10.09	98	539901	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	
62) 4-Bromofluorobenzene	12.40	95	184880	44.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	62736	20.633	ug/l	96
3) Chloromethane	2.05	50	75638	21.578	ug/l	99
4) Vinyl Chloride	2.18	62	56620	20.623	ug/l	99
5) Bromomethane	2.51	94	39493	22.734	ug/l	95
6) Chloroethane	2.66	64	32007	20.871	ug/l	97
7) Trichlorofluoromethane	3.00	101	78785	20.443	ug/l	95
8) Diethyl Ether	3.40	74	26685	20.925	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.73	101	39461	20.197	ug/l	97
10) Methyl Iodide	3.92	142	50510	20.023	ug/l	99
11) Tert butyl alcohol	4.81	59	46810	103.904	ug/l #	83
12) 1,1-Dichloroethene	3.71	96	36228	20.455	ug/l	97
13) Acrolein	3.59	56	17495	97.668	ug/l	92
14) Allyl chloride	4.29	41	105401	19.076	ug/l	96
15) Acrylonitrile	4.98	53	146234	108.174	ug/l	98
16) Acetone	3.81	43	108051	89.760	ug/l	95
17) Carbon Disulfide	4.02	76	115074	20.097	ug/l	97
18) Methyl Acetate	4.31	43	84333	20.403	ug/l	100
19) Methyl tert-butyl Ether	5.03	73	193623	21.131	ug/l	99
20) Methylene Chloride	4.52	84	63539	21.321	ug/l	97
21) trans-1,2-Dichloroethene	5.01	96	54683	20.768	ug/l	97
22) Diisopropyl ether	5.94	45	240759	21.197	ug/l	99
23) Vinyl Acetate	5.88	43	927298	106.228	ug/l	99
24) 1,1-Dichloroethane	5.82	63	118279	20.745	ug/l	99
25) 2-Butanone	6.83	43	201755	100.582	ug/l	98
26) 2,2-Dichloropropane	6.81	77	84965	18.643	ug/l	83
27) cis-1,2-Dichloroethene	6.81	96	67616	21.504	ug/l	97
28) Bromochloromethane	7.18	49	65287	21.502	ug/l	99
29) Tetrahydrofuran	7.20	42	133775	106.303	ug/l	100
30) Chloroform	7.36	83	120625	20.854	ug/l	97
31) Cyclohexane	7.63	56	119727	21.040	ug/l	100
32) 1,1,1-Trichloroethane	7.55	97	94995	20.021	ug/l	99
36) 1,1-Dichloropropene	7.78	75	87402	20.449	ug/l	99
37) Ethyl Acetate	6.92	43	87053	21.381	ug/l #	93
38) Carbon Tetrachloride	7.75	117	75336	19.691	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	102097	20.218	ug/l	99
40) Benzene	8.03	78	257452	20.692	ug/l	96
41) Methacrylonitrile	7.16	41	44925	21.069	ug/l	96
42) 1,2-Dichloroethane	8.11	62	104836	20.745	ug/l	100
43) Isopropyl Acetate	8.16	43	151831	20.727	ug/l	99
44) Trichloroethene	8.82	130	56617	20.059	ug/l	99
45) 1,2-Dichloropropane	9.11	63	71517	20.636	ug/l	99
46) Dibromomethane	9.20	93	42550	19.830	ug/l	97
47) Bromodichloromethane	9.40	83	88659	20.337	ug/l	95
48) Methyl methacrylate	9.20	41	78804	21.071	ug/l	98
49) 1,4-Dioxane	9.20	88	17934	409.516	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	445744	106.172	ug/l	99
52) Toluene	10.15	92	153956	20.936	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	84825	19.515	ug/l	97
54) cis-1,3-Dichloropropene	9.83	75	98317	19.525	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	57334	20.550	ug/l	98
56) Ethyl methacrylate	10.43	69	92142	19.790	ug/l	99
57) 1,3-Dichloropropane	10.71	76	104357	20.387	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.69	63	126598	92.939	ug/l	99
59) 2-Hexanone	10.75	43	306830	99.521	ug/l	97
60) Dibromochloromethane	10.90	129	50397	18.854	ug/l	95
61) 1,2-Dibromoethane	11.00	107	56970	20.279	ug/l	98
64) Tetrachloroethene	10.63	164	52061	20.668	ug/l	98
65) Chlorobenzene	11.43	112	151107	20.730	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	51028	20.072	ug/l	98
67) Ethyl Benzene	11.51	91	292788	20.672	ug/l	99
68) m/p-Xylenes	11.62	106	201147	40.313	ug/l	99
69) o-Xylene	11.95	106	97030	20.066	ug/l	95
70) Styrene	11.96	104	154283	19.395	ug/l	97
71) Bromoform	12.13	173	29927	20.088	ug/l #	94
73) Isopropylbenzene	12.25	105	271778	23.375	ug/l	99
74) N-amyl acetate	12.07	43	126463	23.048	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	78726	22.974	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	71039m	23.452	ug/l	
77) Bromobenzene	12.53	156	58115	23.485	ug/l	99
78) n-propylbenzene	12.59	91	283239	21.887	ug/l	100
79) 2-Chlorotoluene	12.67	91	182303	22.592	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	218337	22.826	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	17173	19.433	ug/l	90
82) 4-Chlorotoluene	12.77	91	170658	21.366	ug/l	99
83) tert-Butylbenzene	12.99	119	189274	23.321	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	202190	21.849	ug/l	98
85) sec-Butylbenzene	13.17	105	231650	21.220	ug/l	98
86) p-Isopropyltoluene	13.29	119	193149	21.394	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	82069	20.357	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	79659	20.456	ug/l	97
89) n-Butylbenzene	13.62	91	178236	21.067	ug/l	99
90) Hexachloroethane	13.88	117	31954	20.387	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	78451	20.393	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11310	21.435	ug/l	98

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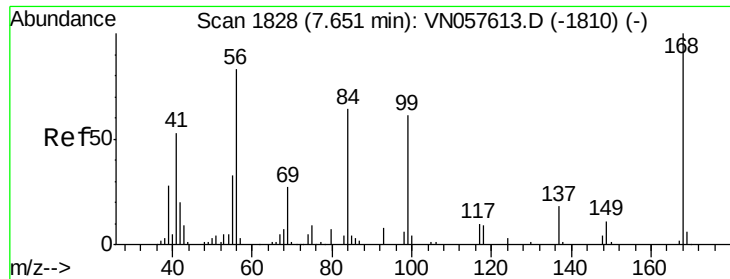
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	25920	21.244	ug/l	95
94) Hexachlorobutadiene	15.01	225	25905	19.623	ug/l	96
95) Naphthalene	15.13	128	74340	19.889	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	24222	20.012	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBS01

Tot Ion:168 Resp: 190144

Ion Ratio Lower Upper

168 100

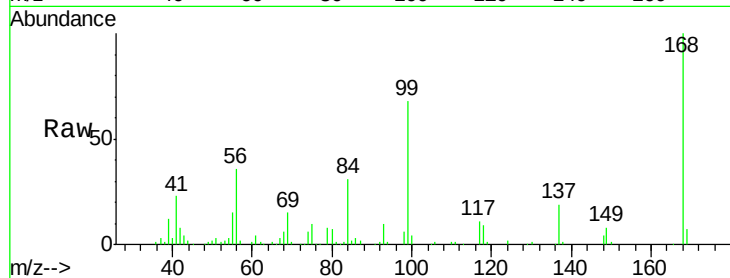
99 67.9 54.2 81.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

80000

60000

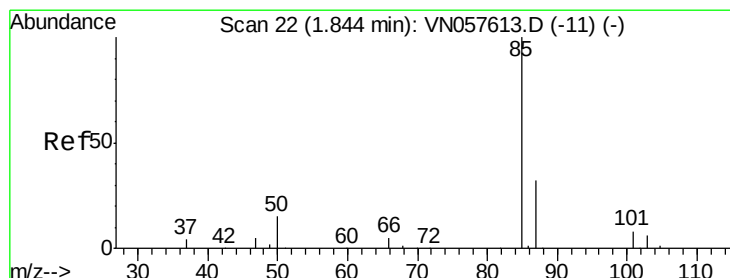
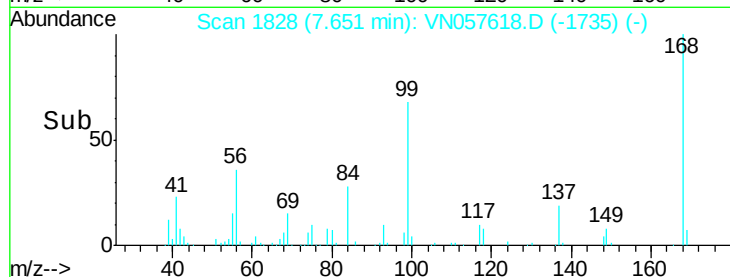
40000

20000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 20.633 ug/l

RT: 1.84 min Scan# 22

Delta R.T. 0.00 min

Lab File: VN057618.D

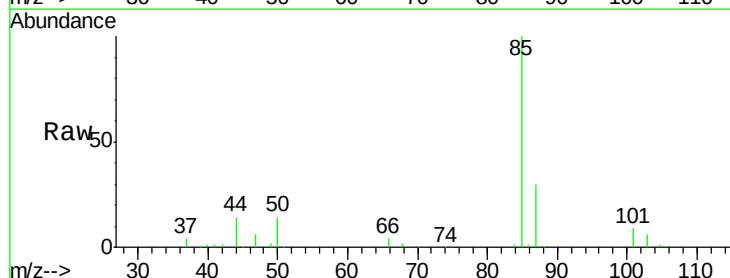
Acq: 31 Aug 2019 16:59

Tgt Ion: 85 Resp: 62736

Ion Ratio Lower Upper

85 100

87 30.3 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

50000

40000

30000

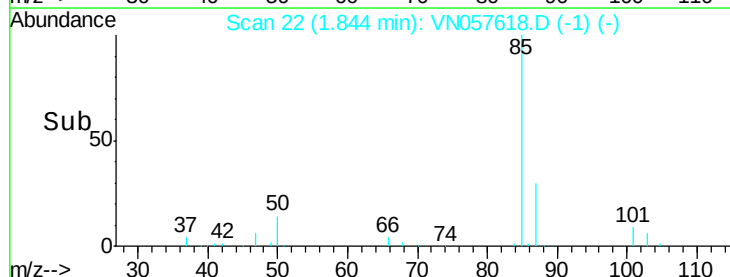
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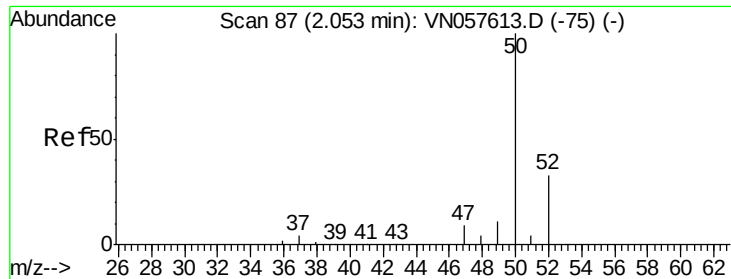
10000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 21.578 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBS01

Tot Ion: 50 Resp: 75638

Ion Ratio Lower Upper

50 100

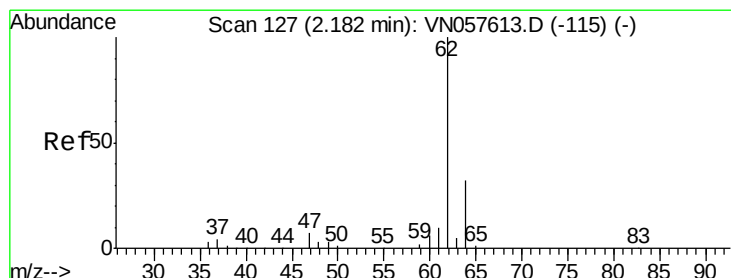
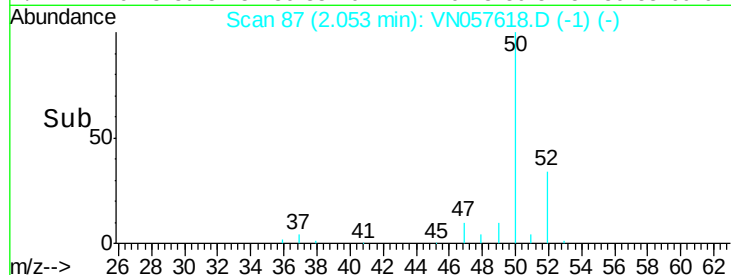
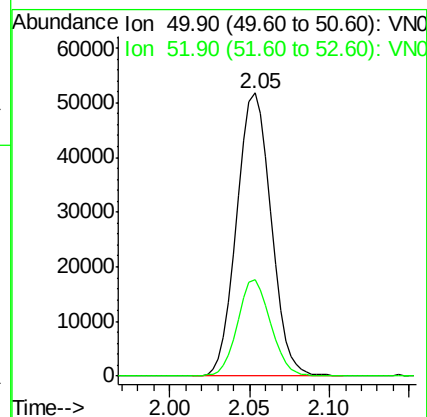
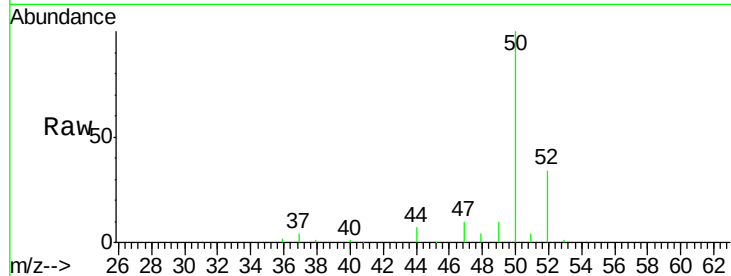
52 33.9 26.7 40.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.623 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057618.D

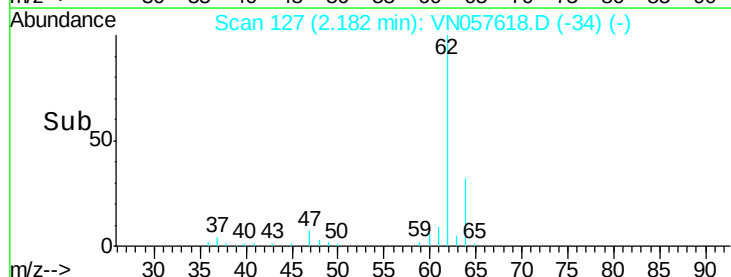
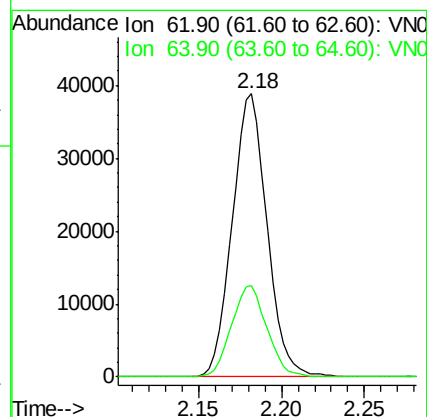
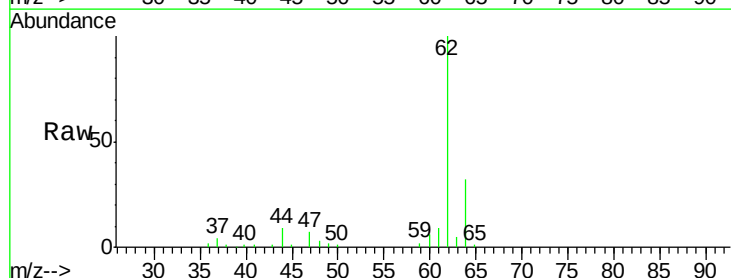
Acq: 31 Aug 2019 16:59

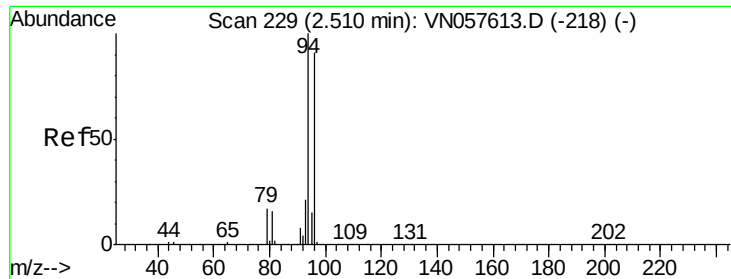
Tgt Ion: 62 Resp: 56620

Ion Ratio Lower Upper

62 100

64 32.1 25.2 37.8





#5

Bromomethane

Concen: 22.734 ug/l

RT: 2.51 min Scan# 230

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

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ClientSampleId :

VN0901WBS01

Tot Ion: 94 Resp: 39493

Ion Ratio Lower Upper

94 100

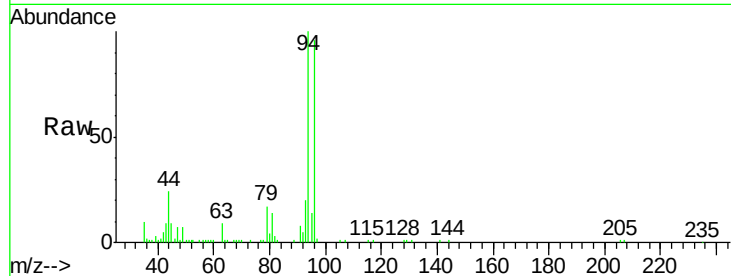
96 96.2 72.9 109.3

Manual Integrations

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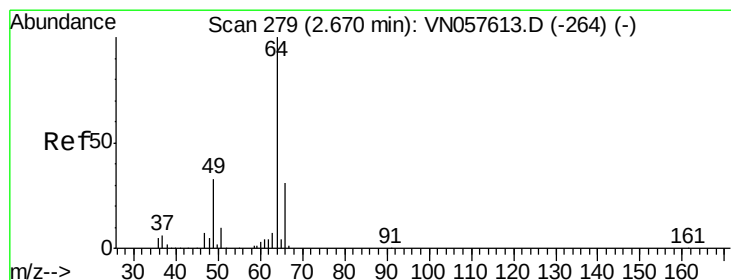
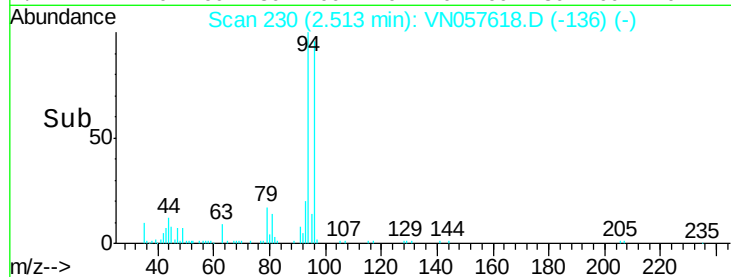
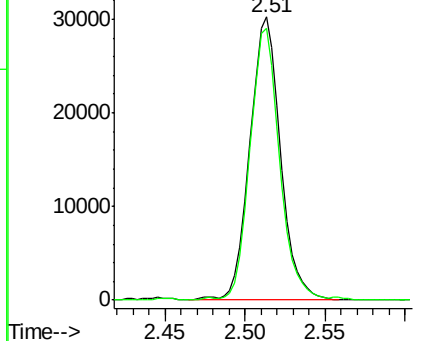
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.871 ug/l

RT: 2.66 min Scan# 277

Delta R.T. -0.01 min

Lab File: VN057618.D

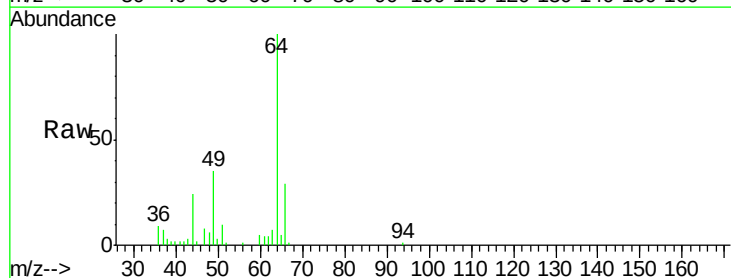
Acq: 31 Aug 2019 16:59

Tgt Ion: 64 Resp: 32007

Ion Ratio Lower Upper

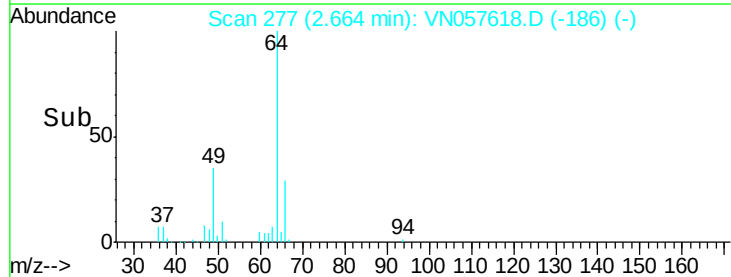
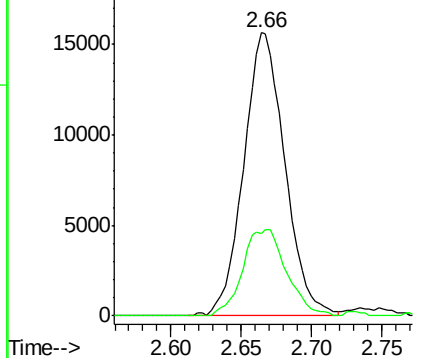
64 100

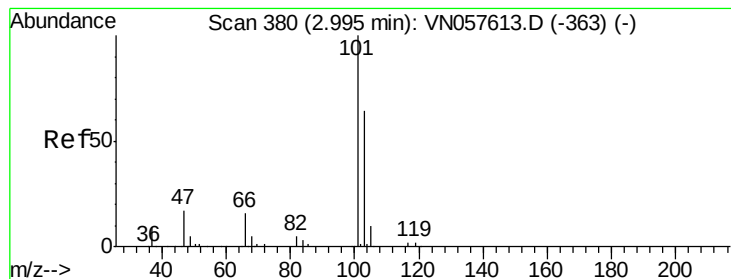
66 29.3 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

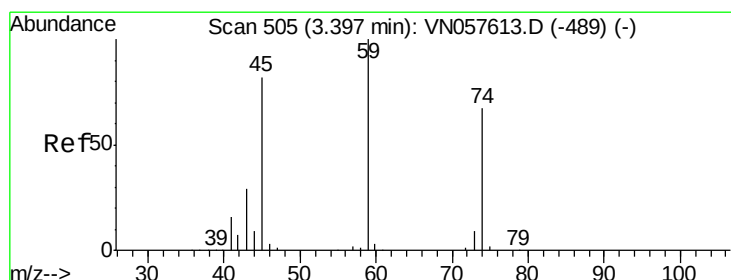
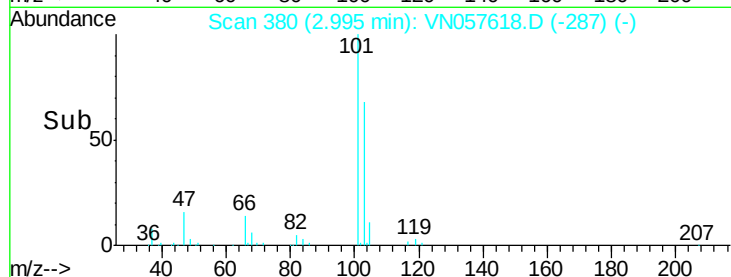
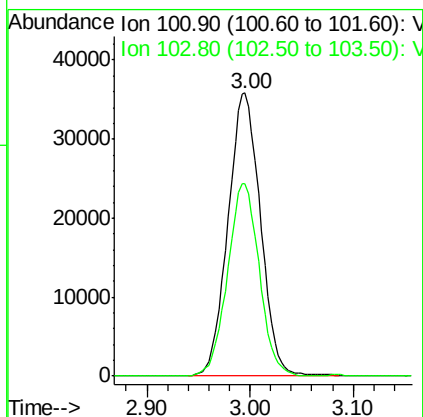
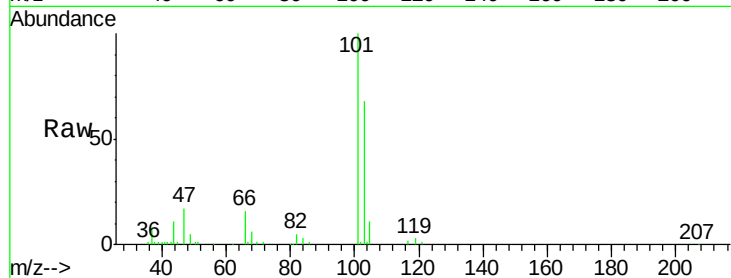
Trichlorofluoromethane
 Concen: 20.443 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
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 ClientSampleId :
 VN0901WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.1	51.3	76.9

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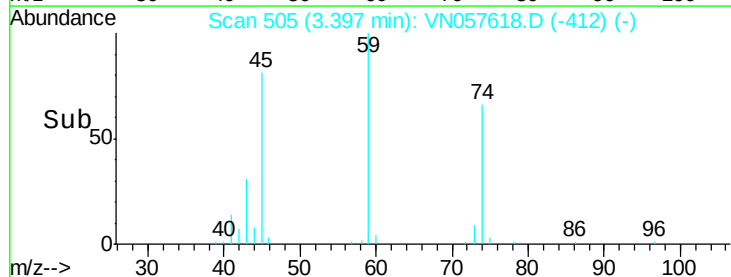
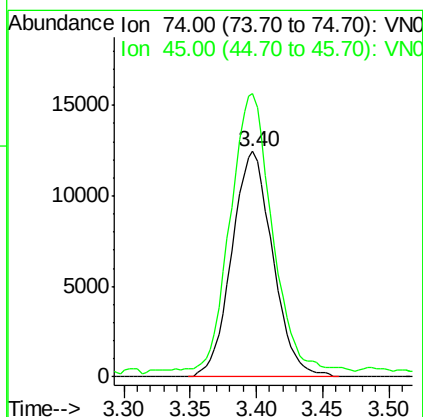
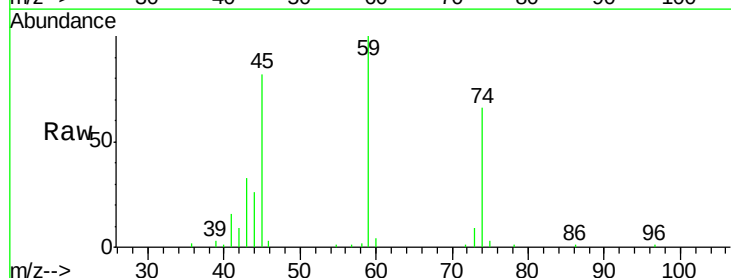
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 9/3/2019 11:52:15 AM

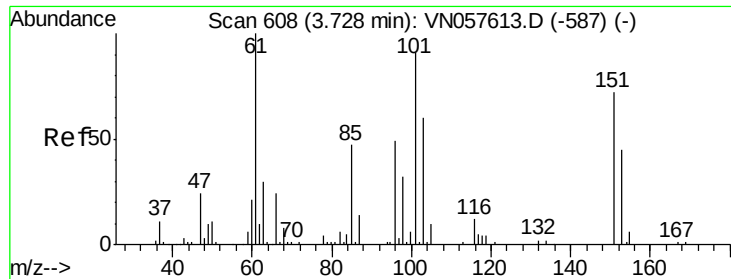


#8

Diethyl Ether
 Concen: 20.925 ug/l
 RT: 3.40 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	129.7	61.9	185.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.197 ug/l

RT: 3.73 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

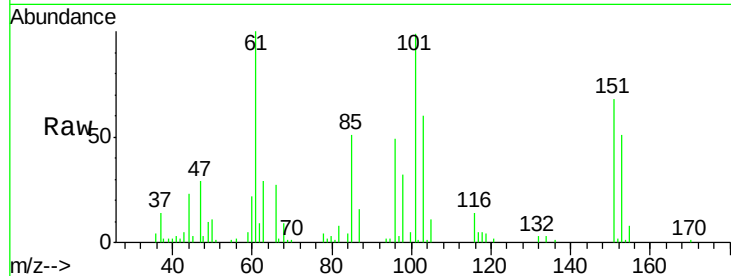
ClientSampled :

VN0901WBS01

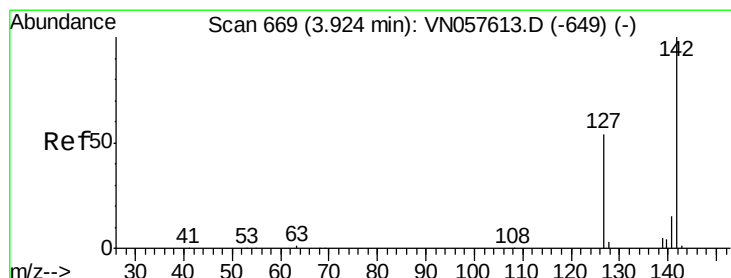
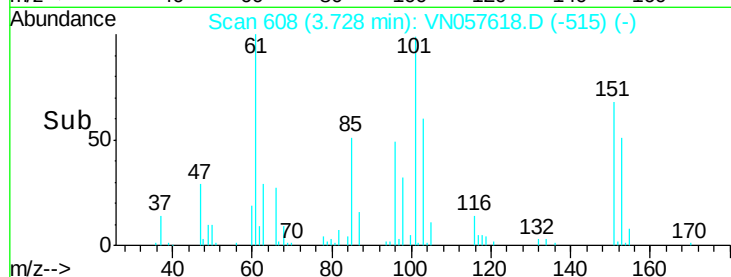
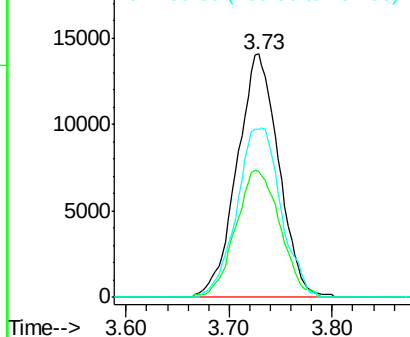
Tot Ion:	101	Resp:	39461
Ion Ratio	Lower	Upper	
101	100		
85	55.5	42.1	63.1
151	73.4	60.2	90.4

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.023 ug/l

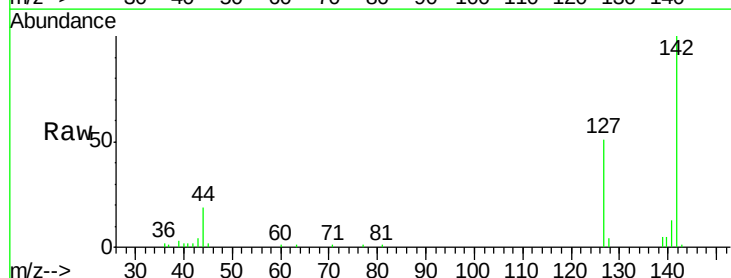
RT: 3.92 min Scan# 669

Delta R.T. 0.00 min

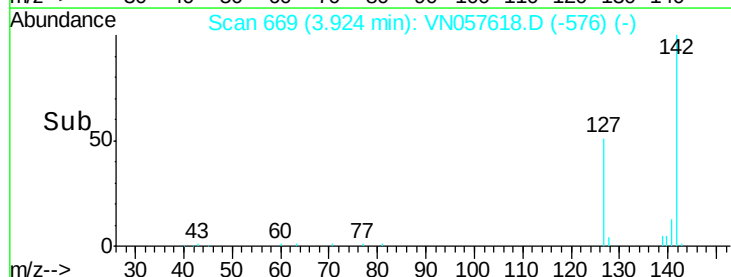
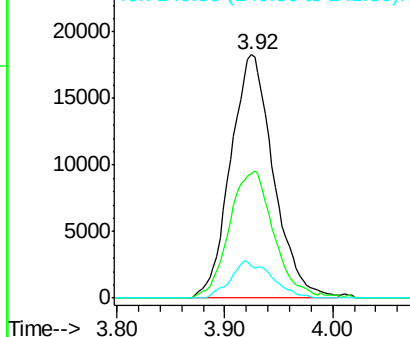
Lab File: VN057618.D

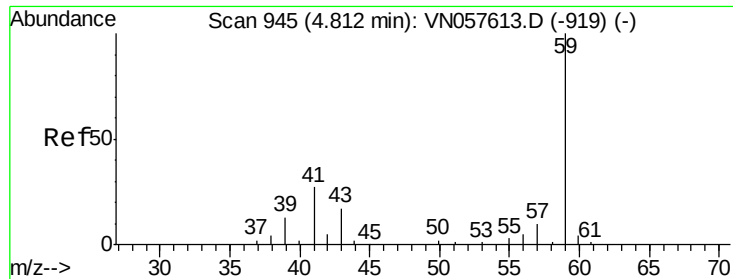
Acq: 31 Aug 2019 16:59

Tgt Ion:	142	Resp:	50510
Ion Ratio	Lower	Upper	
142	100		
127	53.5	43.0	64.6
141	14.6	11.4	17.2



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





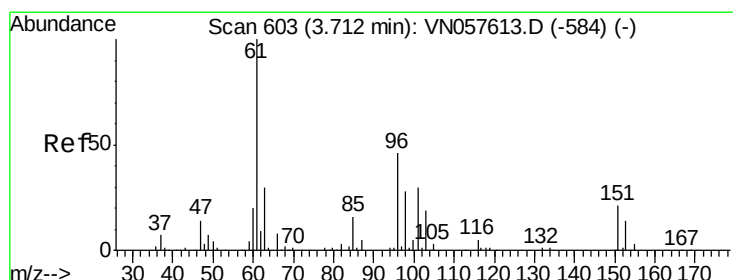
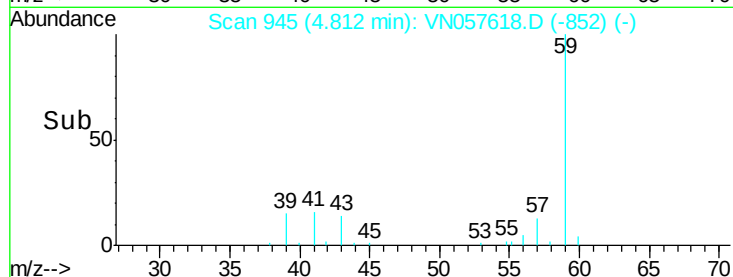
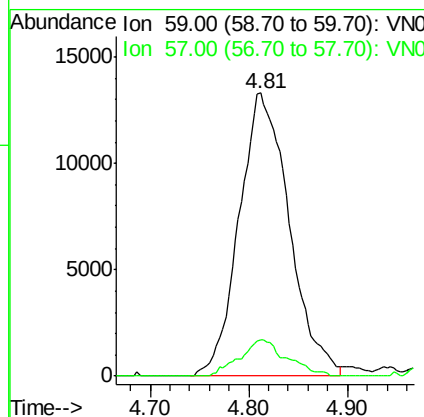
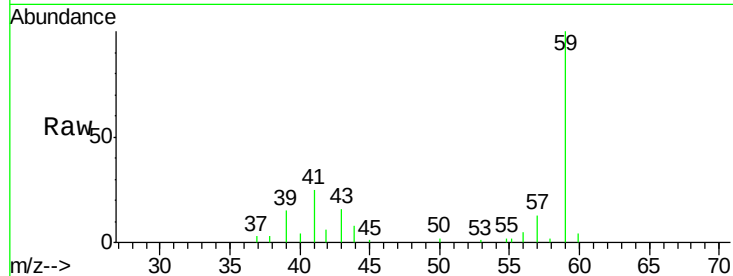
#11
Tert butyl alcohol
Concen: 103.904 ug/l
RT: 4.81 min Scan# 945
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion: 59 Resp: 46810
Ion Ratio Lower Upper
59 100
57 12.1 5.0 7.6#

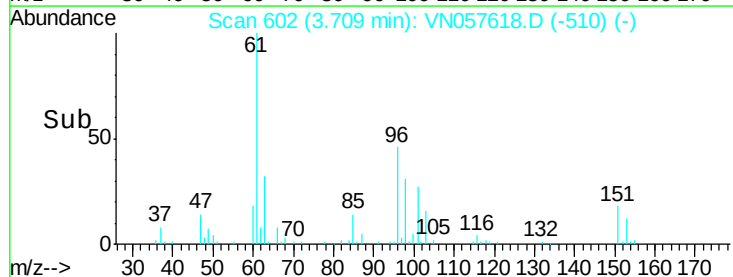
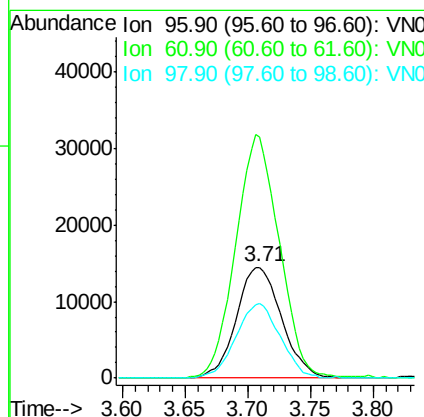
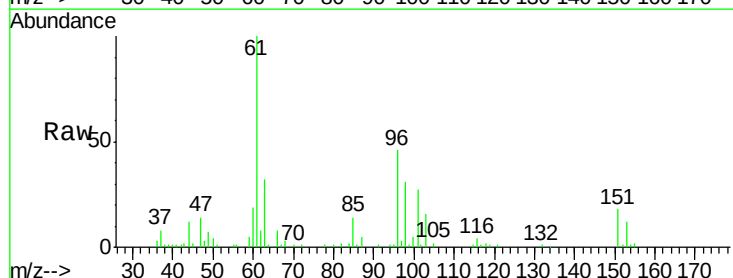
Manual Integrations
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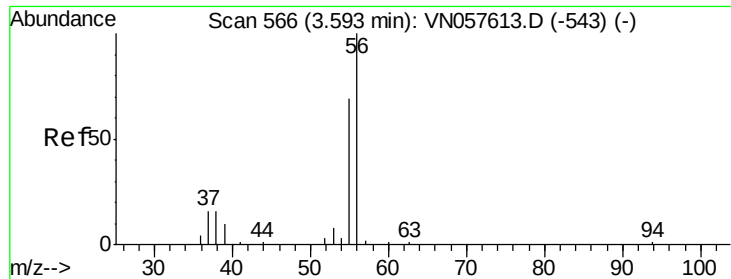
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#12
1,1-Dichloroethene
Concen: 20.455 ug/l
RT: 3.71 min Scan# 602
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion: 96 Resp: 36228
Ion Ratio Lower Upper
96 100
61 216.2 172.1 258.1
98 67.4 48.3 72.5





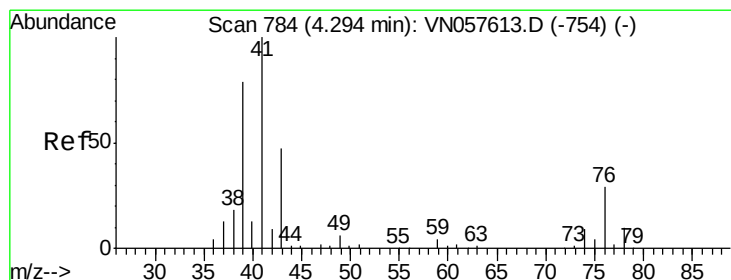
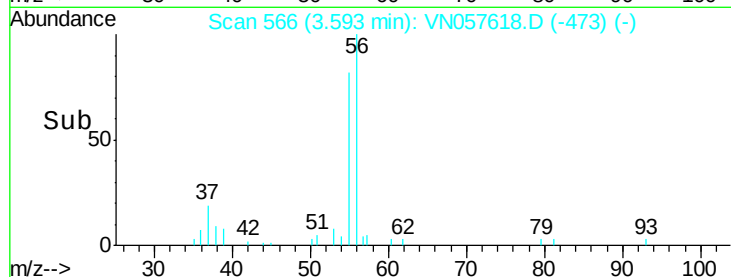
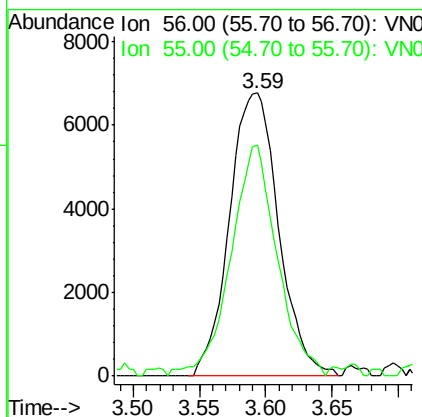
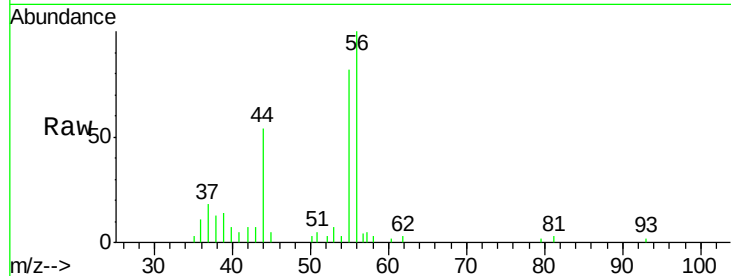
#13
Acrolein
Concen: 97.668 ug/l
RT: 3.59 min Scan# 566
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	56	Resp	17495
Ion Ratio	100	Lower	Upper
55	77.1	56.5	84.7

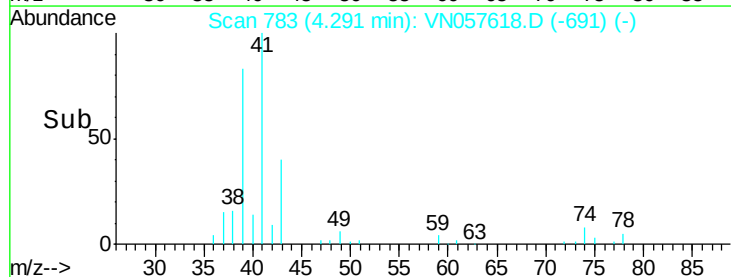
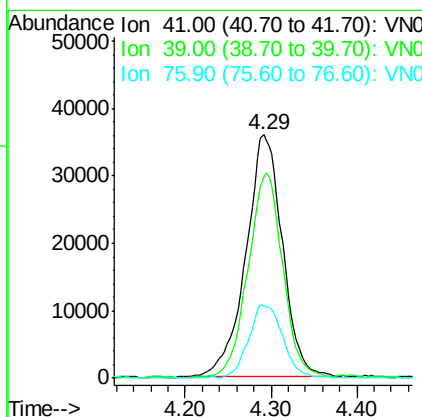
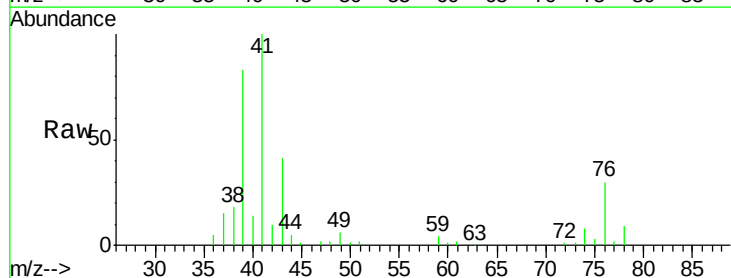
Manual Integrations
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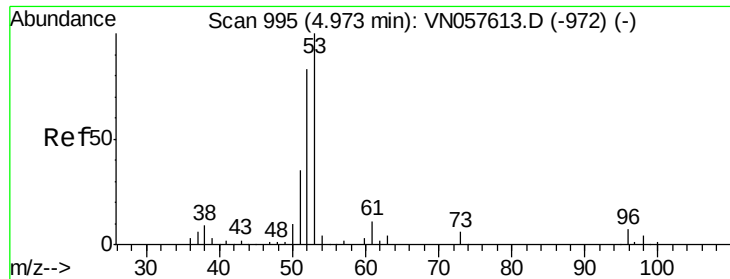
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#14
Allyl chloride
Concen: 19.076 ug/l
RT: 4.29 min Scan# 783
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	41	Resp	105401
Ion Ratio	100	Lower	Upper
39	79.4	60.9	91.3
76	28.4	21.1	31.7





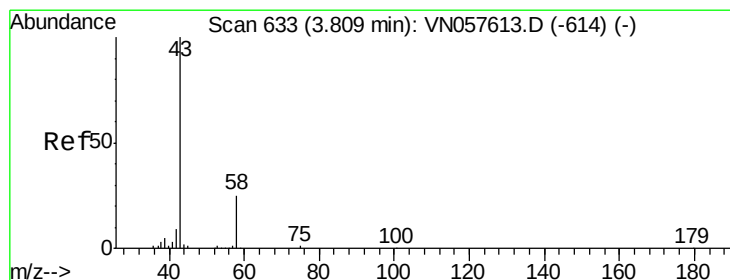
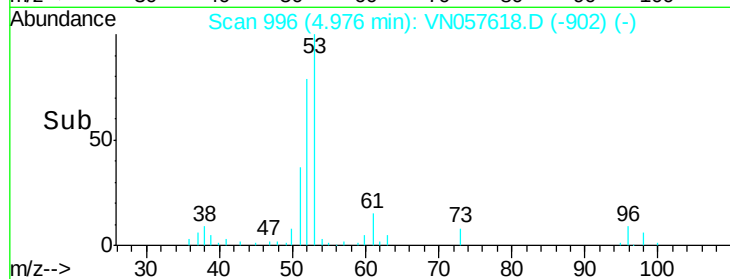
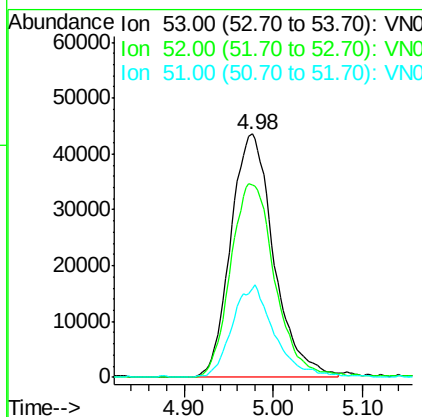
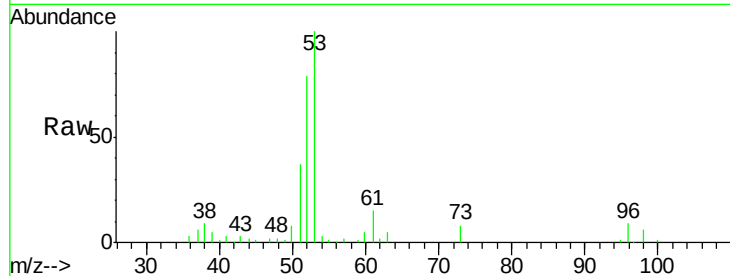
#15
 Acrylonitrile
 Concen: 108.174 ug/l
 RT: 4.98 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.7	67.1	100.7
51	37.1	30.2	45.4

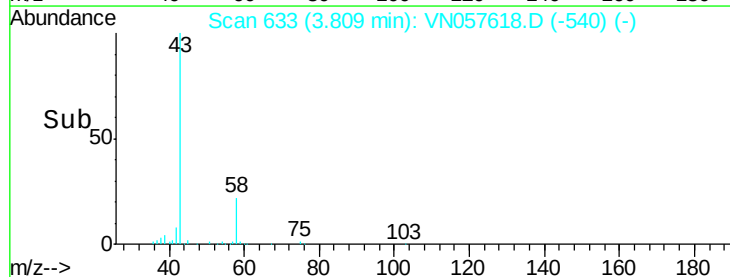
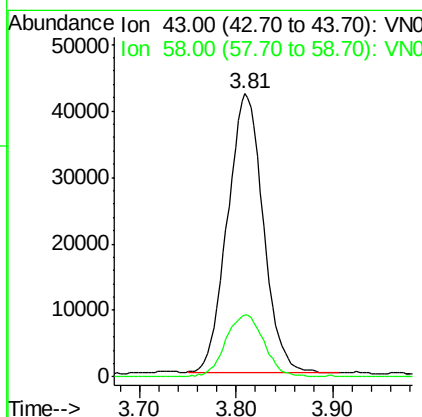
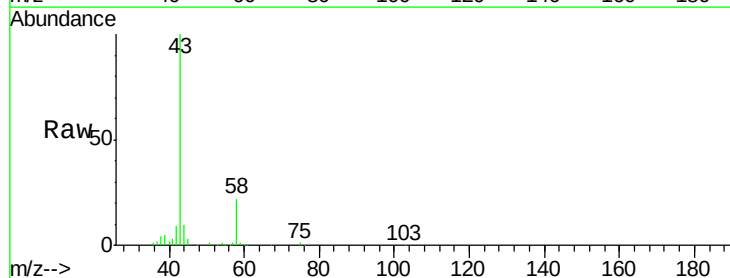
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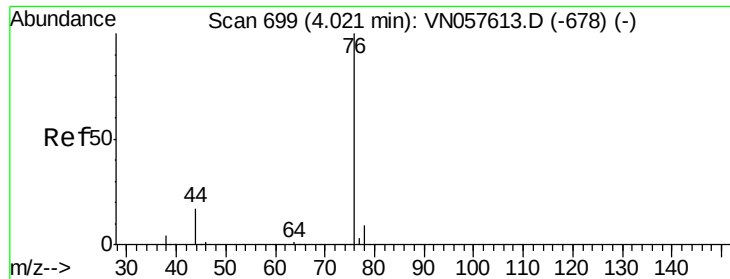
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#16
 Acetone
 Concen: 89.760 ug/l
 RT: 3.81 min Scan# 633
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.3	20.0	30.0





#17

Carbon Disulfide

Concen: 20.097 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

VN0901WBS01

Tot Ion: 76 Resp: 115074

Ion Ratio Lower Upper

76 100

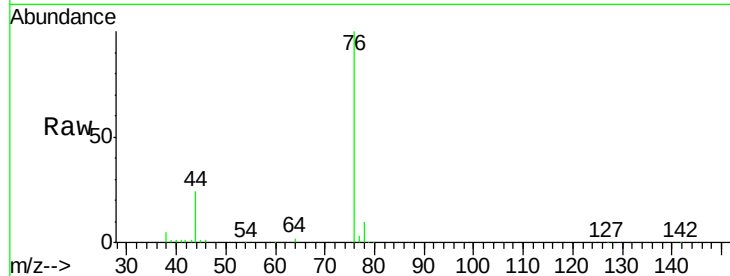
78 9.7 6.9 10.3

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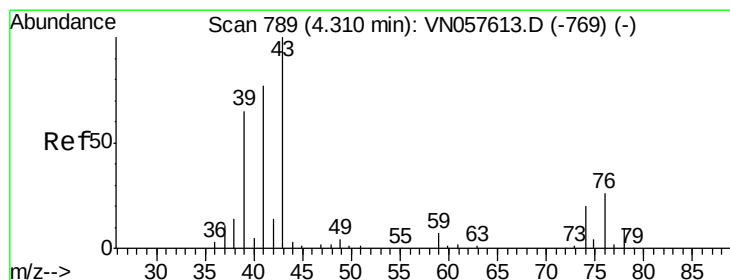
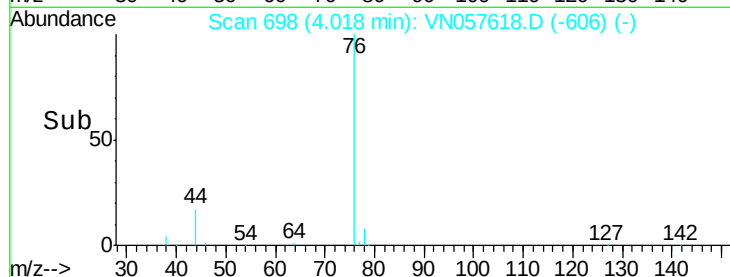
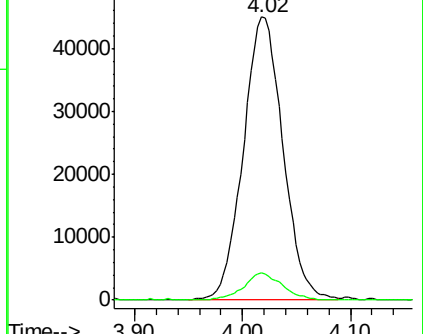
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Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 20.403 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN057618.D

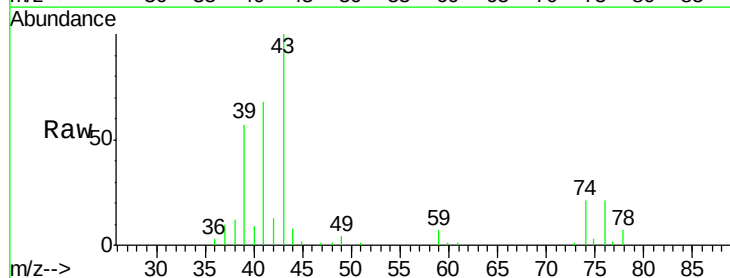
Acq: 31 Aug 2019 16:59

Tgt Ion: 43 Resp: 84333

Ion Ratio Lower Upper

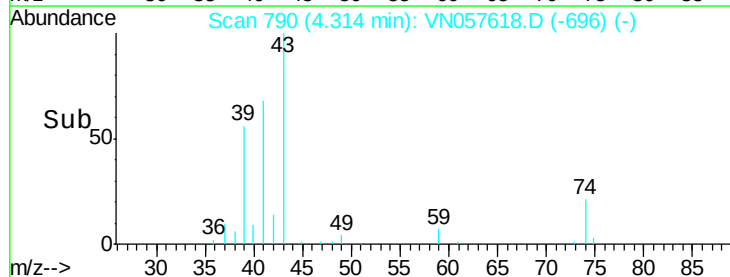
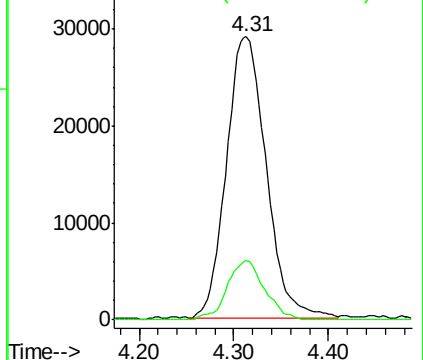
43 100

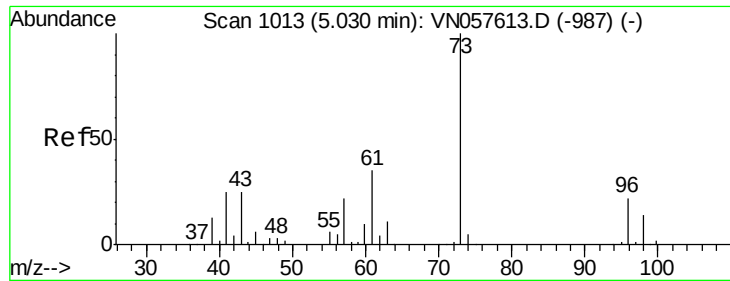
74 19.8 15.7 23.5



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





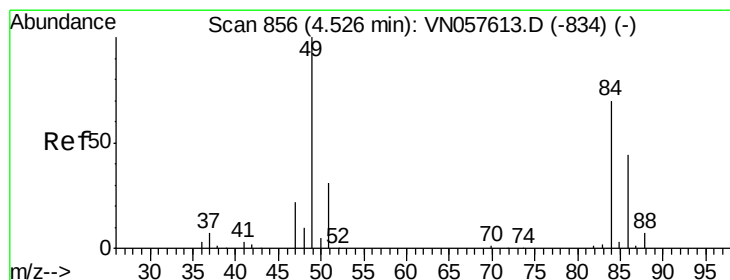
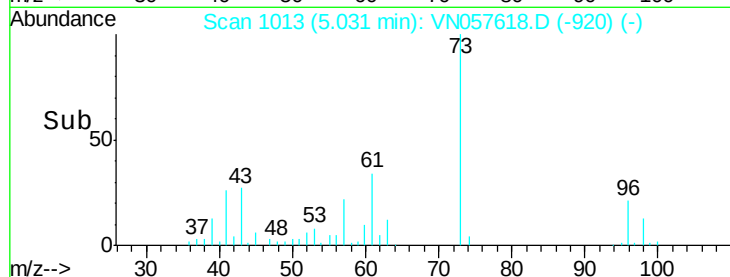
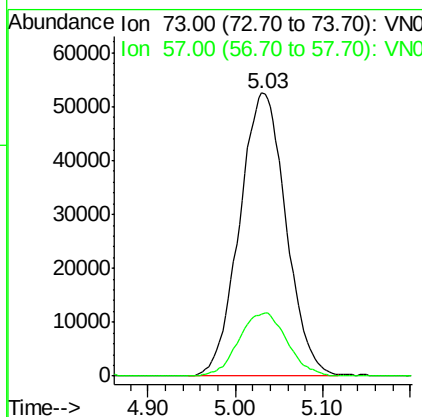
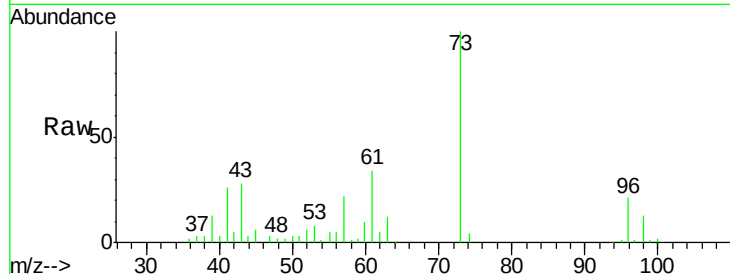
#19
Methyl tert-butyl Ether
Concen: 21.131 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion: 73 Resp: 193623
Ion Ratio Lower Upper
73 100
57 22.1 17.3 25.9

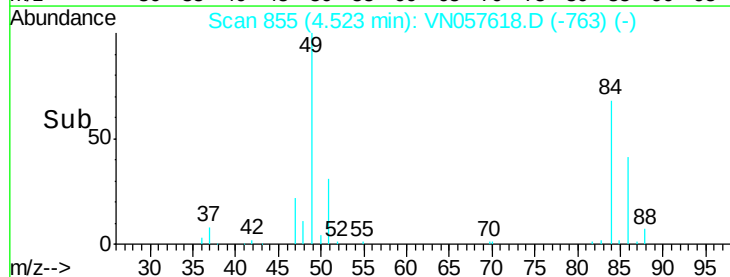
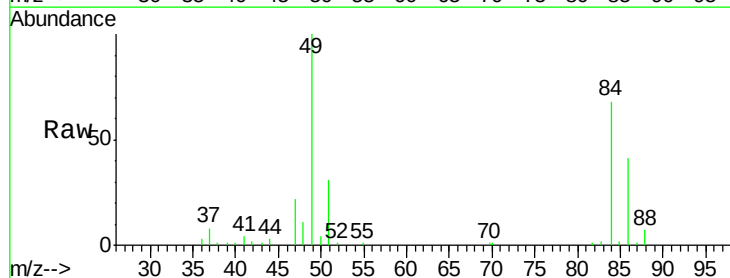
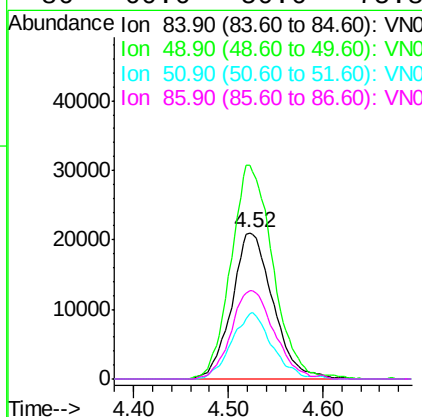
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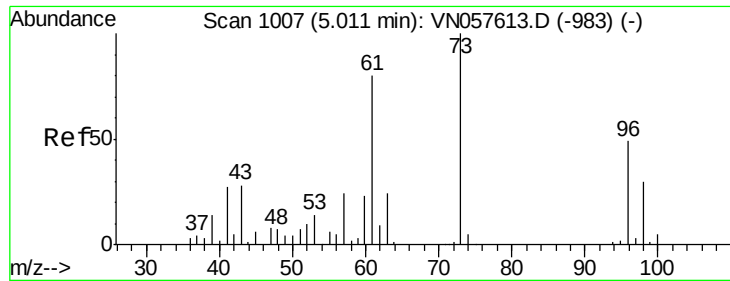
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#20
Methylene Chloride
Concen: 21.321 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion: 84 Resp: 63539
Ion Ratio Lower Upper
84 100
49 146.3 113.8 170.6
51 44.7 35.0 52.6
86 60.6 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 20.768 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

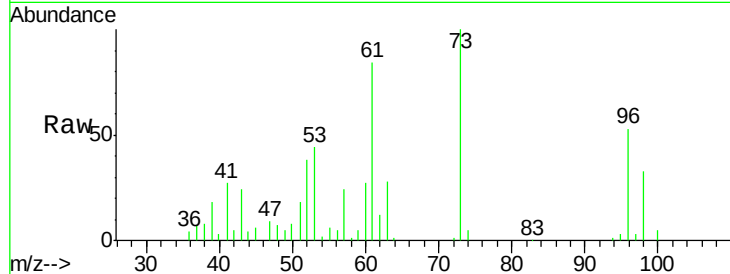
ClientSampled :

VN0901WBS01

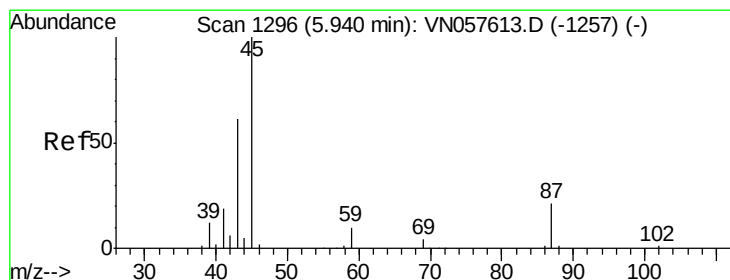
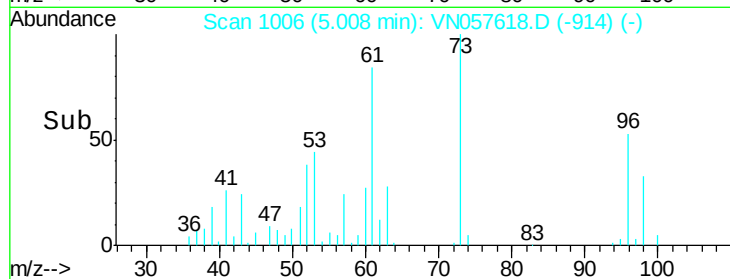
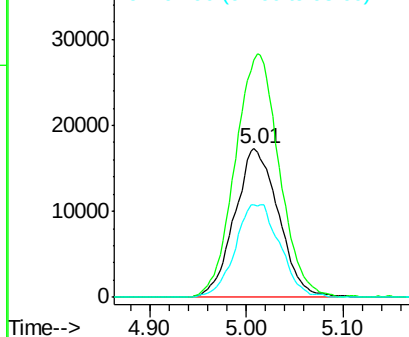
Tot Ion:	96	Resp:	54683
Ion	Ratio	Lower	Upper
96	100		
61	159.6	131.6	197.4
98	62.4	49.9	74.9

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



#22

Diisopropyl ether

Concen: 21.197 ug/l

RT: 5.94 min Scan# 1296

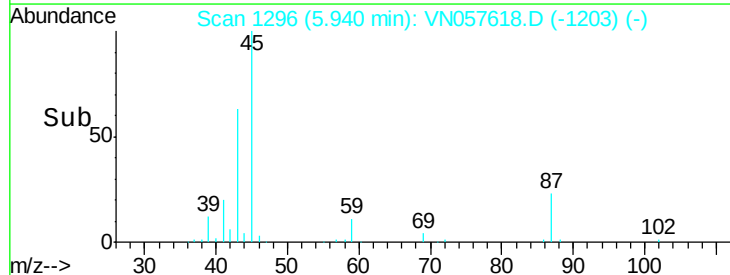
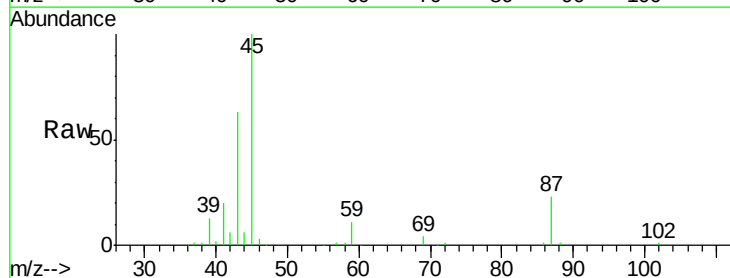
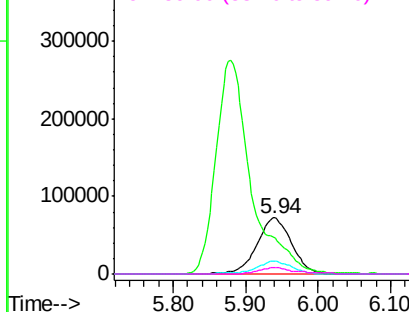
Delta R.T. 0.00 min

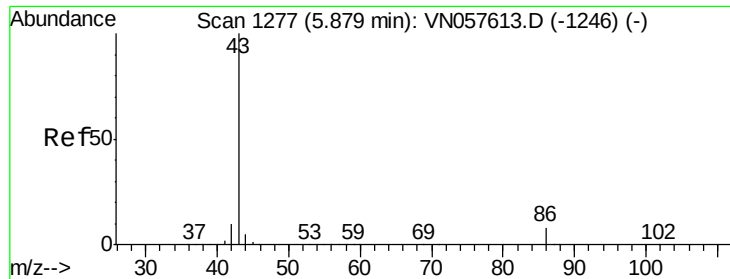
Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion:	45	Resp:	240759
Ion	Ratio	Lower	Upper
45	100		
43	61.3	49.1	73.7
87	23.4	17.0	25.6
59	10.2	8.2	12.2

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





#23

Vinyl Acetate

Concen: 106.228 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBS01

Tot Ion: 43 Resp: 927298

Ion Ratio Lower Upper

43 100

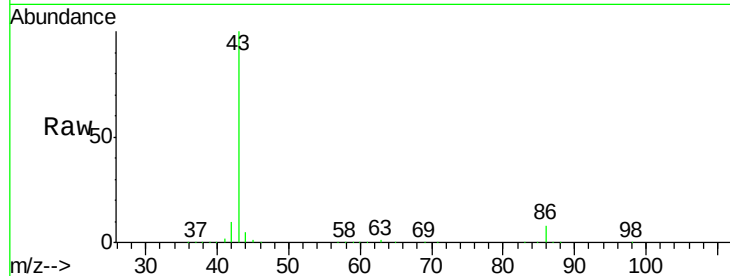
86 8.0 6.1 9.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.88

300000

250000

200000

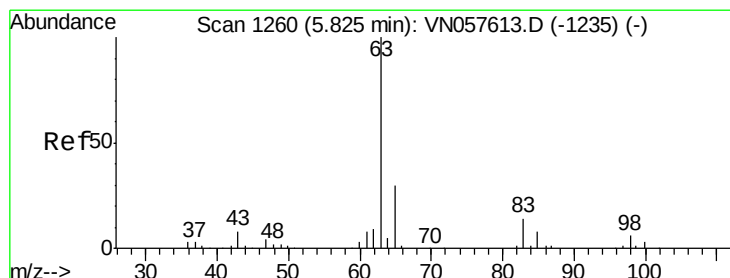
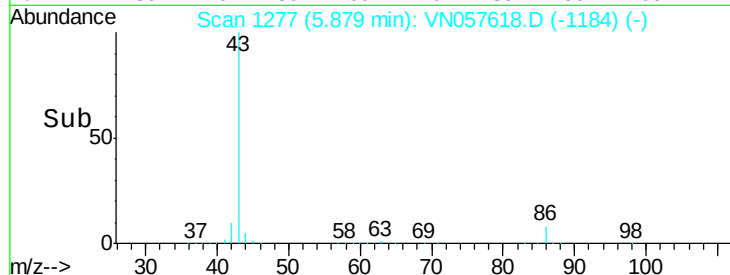
150000

100000

50000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 20.745 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

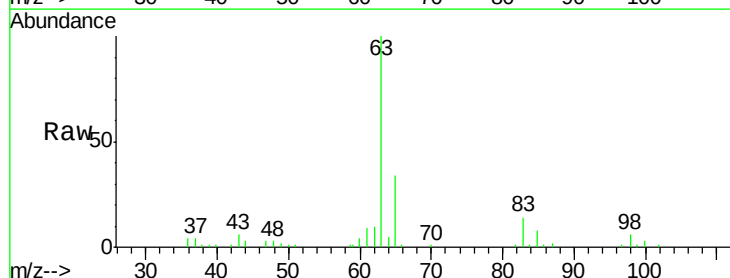
Tgt Ion: 63 Resp: 118279

Ion Ratio Lower Upper

63 100

98 5.9 2.8 8.4

100 3.0 1.5 4.5



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

5.82

50000

40000

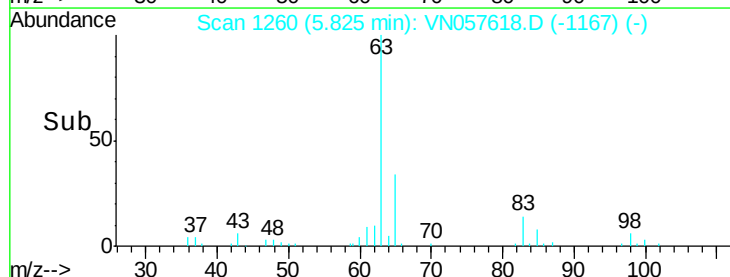
30000

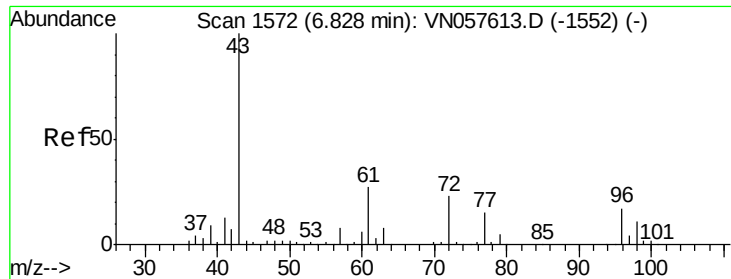
20000

10000

0

Time--> 5.70 5.80 5.90





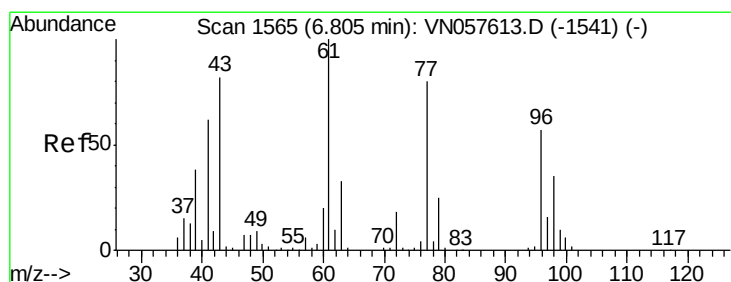
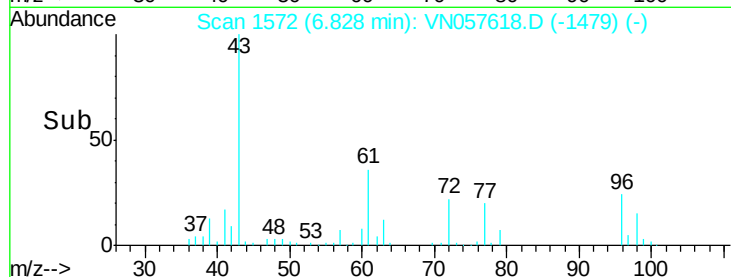
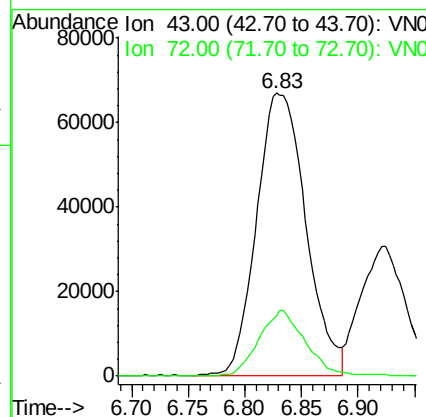
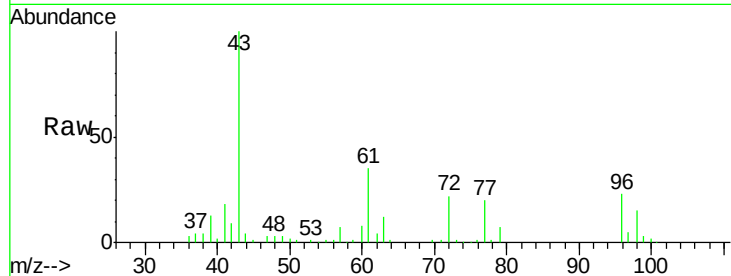
#25
2-Butanone
Concen: 100.582 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion: 43 Resp: 201755
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.4

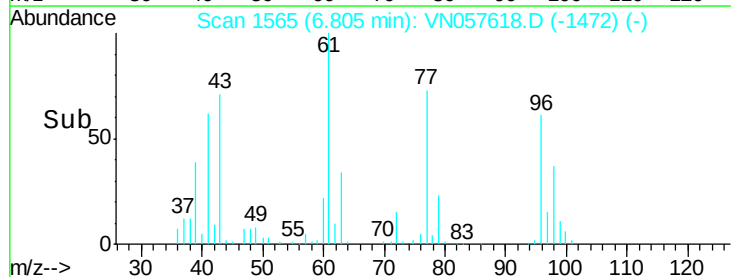
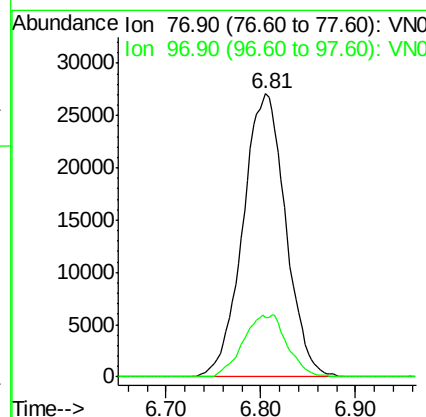
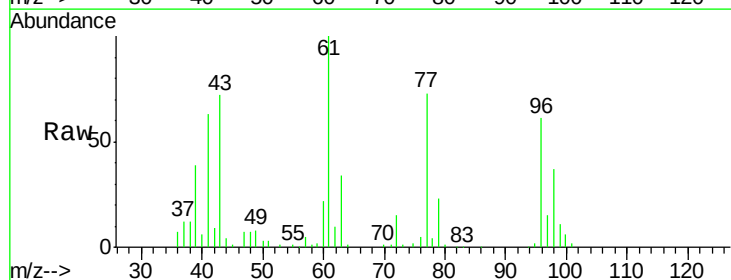
Manual Integrations
APPROVED

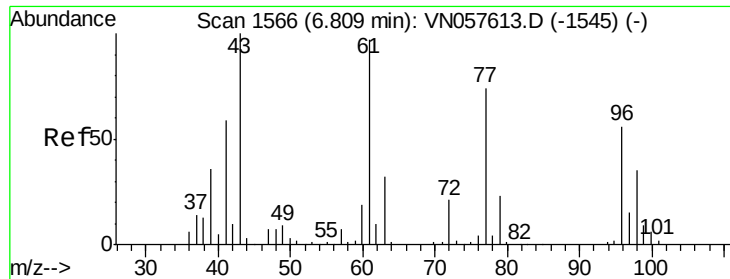
MMDadoda
9/3/2019 11:52:15 AM



#26
2,2-Dichloropropane
Concen: 18.643 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion: 77 Resp: 84965
Ion Ratio Lower Upper
77 100
97 13.4 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 21.504 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

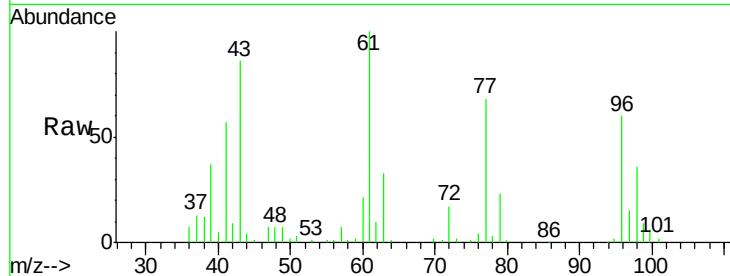
ClientSampled :

VN0901WBS01

Tot Ion:	96	Resp:	67616
Ion	Ratio	Lower	Upper
96	100		
61	167.7	0.0	344.6
98	63.8	0.0	124.8

Manual Integrations
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MMDadoda
9/3/2019 11:52:15 AM

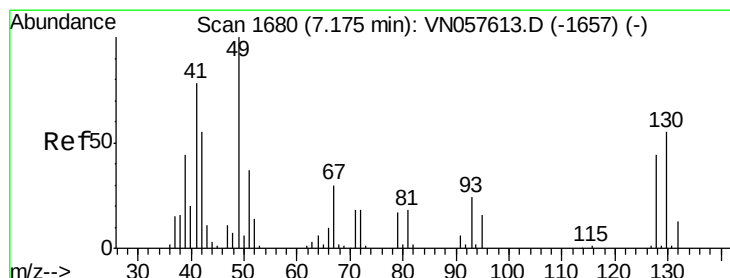
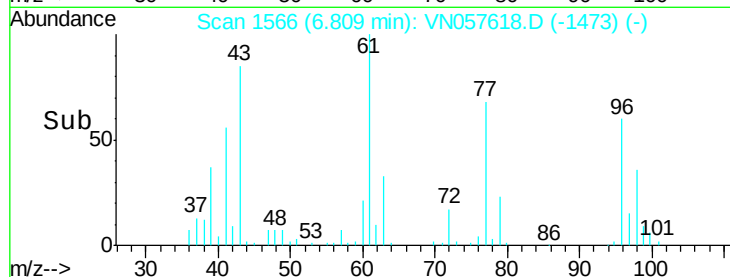
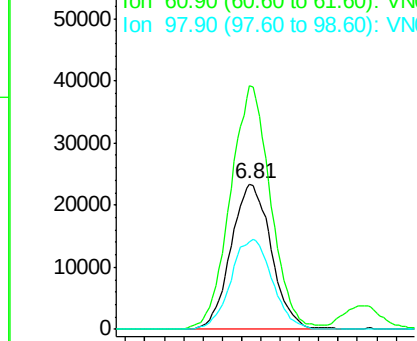


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 21.502 ug/l

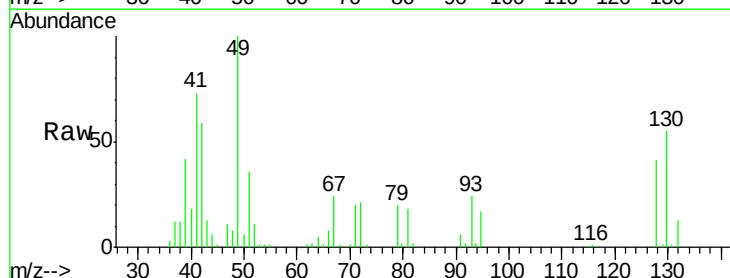
RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion:	49	Resp:	65287
Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	1.8
130	56.9	45.8	68.8

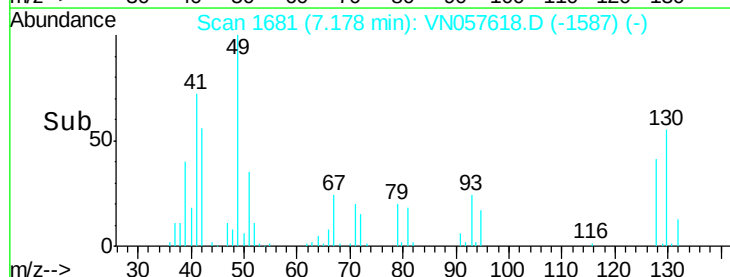
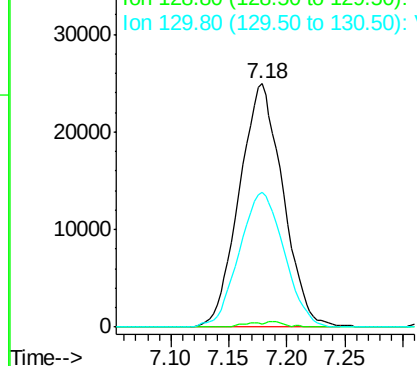


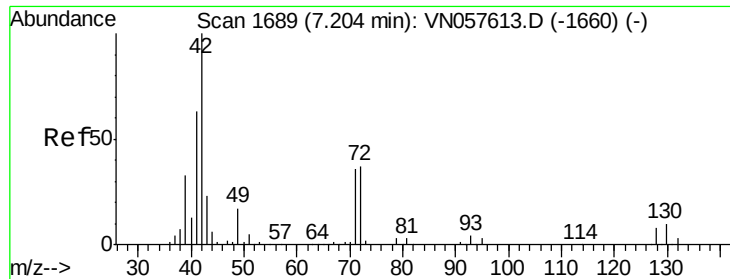
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





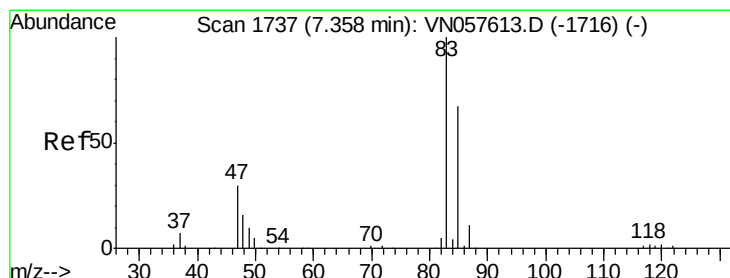
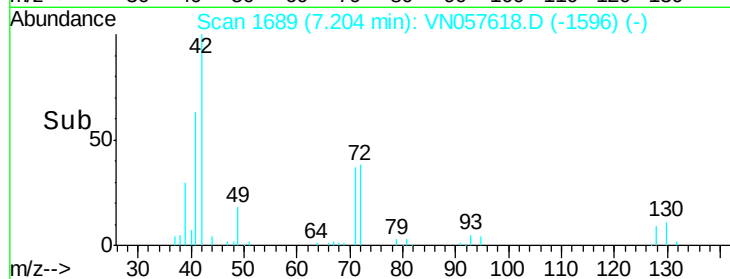
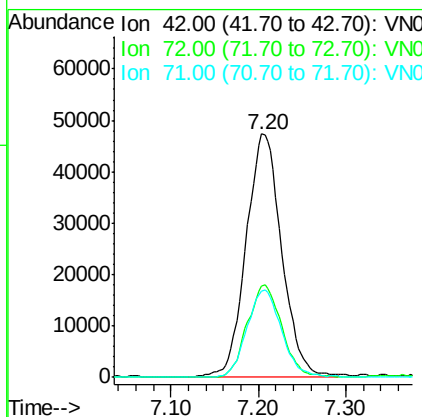
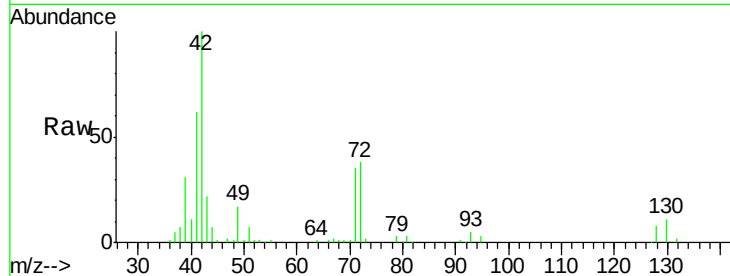
#29
Tetrahydrofuran
Concen: 106.303 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	29.6	44.4
71	34.9	27.9	41.9

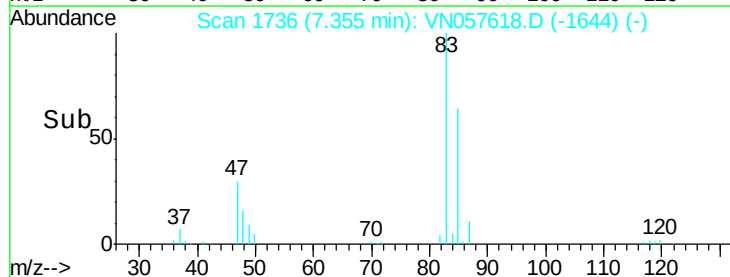
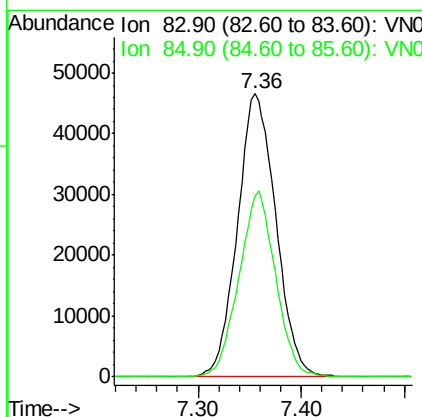
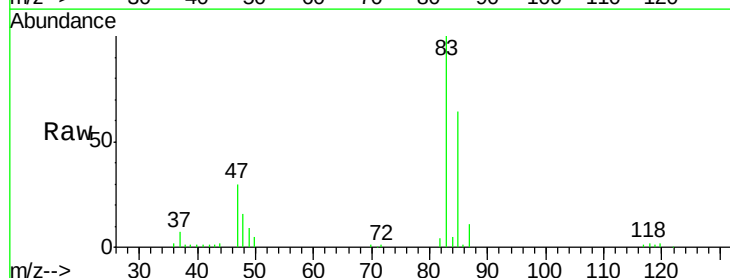
Manual Integrations
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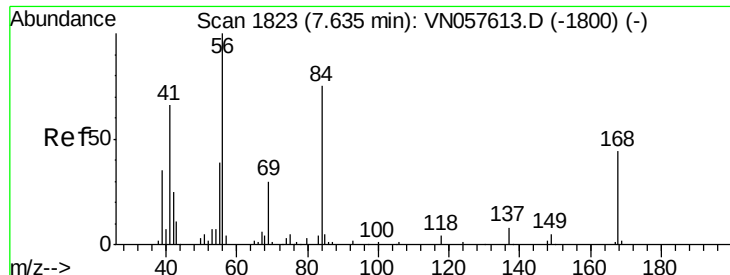
MMDadoda
9/3/2019 11:52:15 AM



#30
Chloroform
Concen: 20.854 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.2	79.8





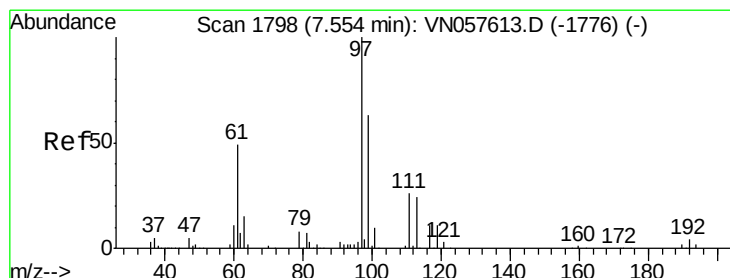
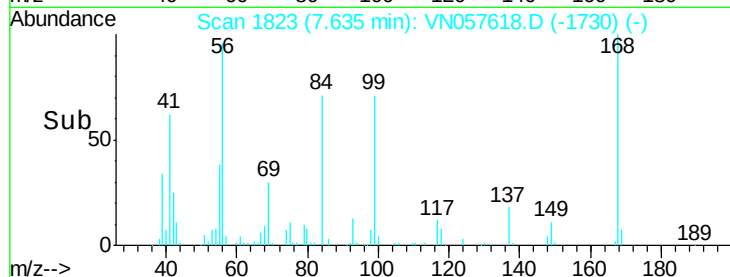
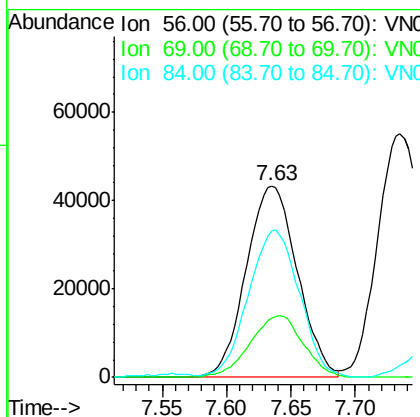
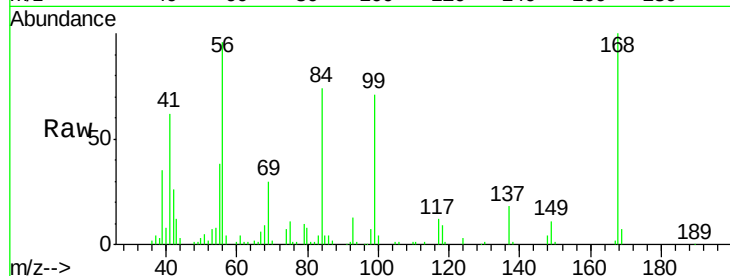
#31
Cyclohexane
Concen: 21.040 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.4	36.6
84	75.1	59.9	89.9

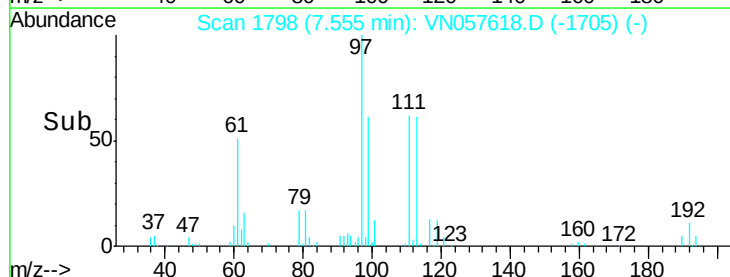
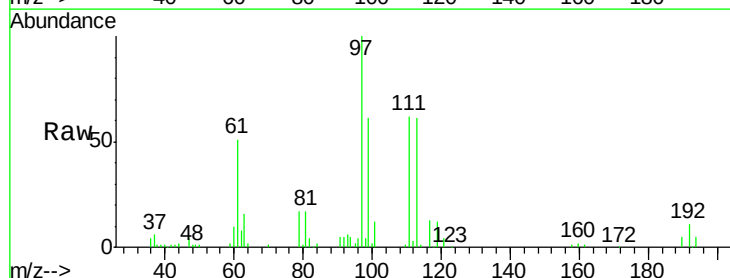
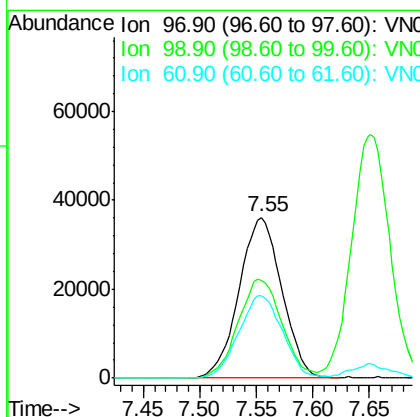
Manual Integrations
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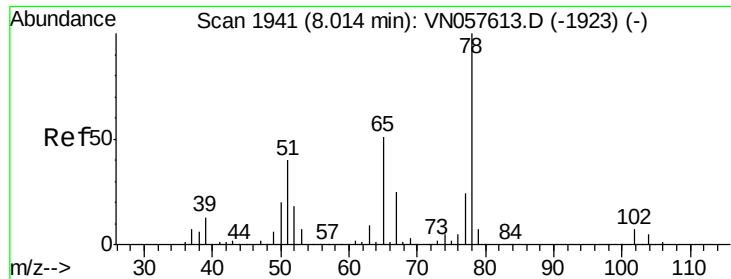
MMDadoda
9/3/2019 11:52:15 AM



#32
1,1,1-Trichloroethane
Concen: 20.021 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	50.6	75.8
61	52.4	41.1	61.7





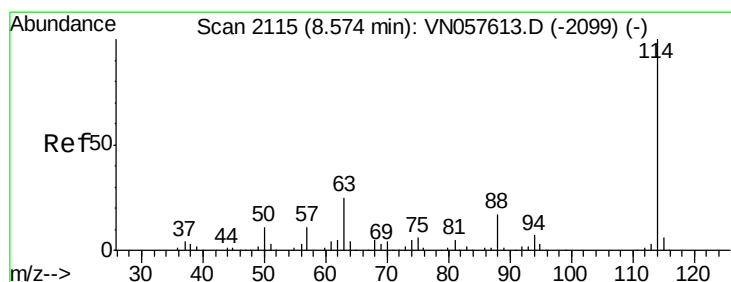
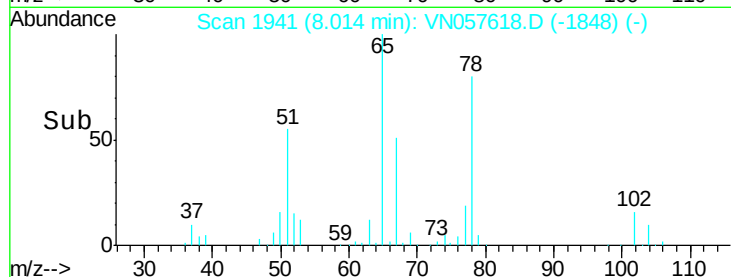
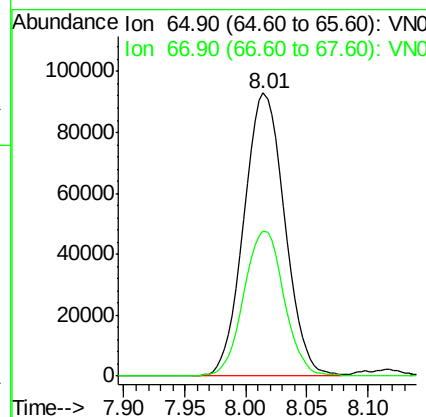
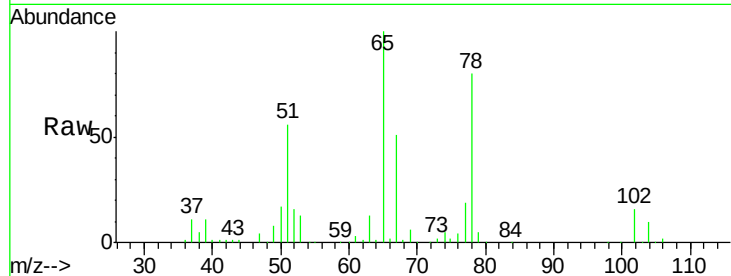
#33
 1,2-Dichloroethane-d4
 Concen: 50.253 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	50.5	0.0	102.2	

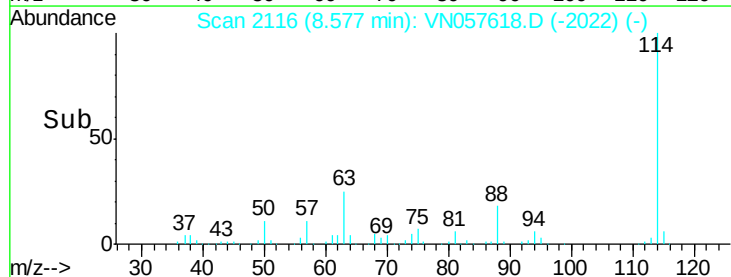
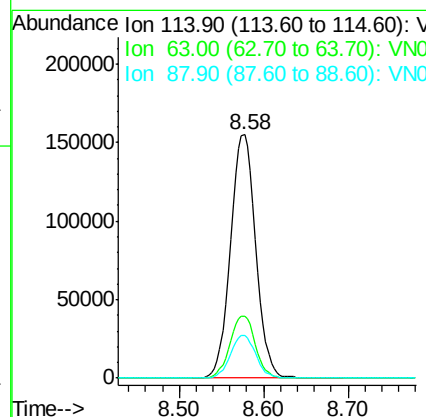
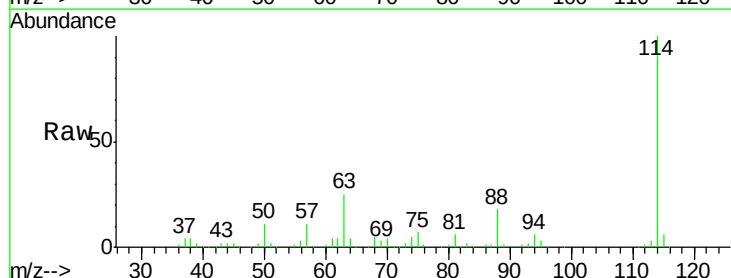
Manual Integrations
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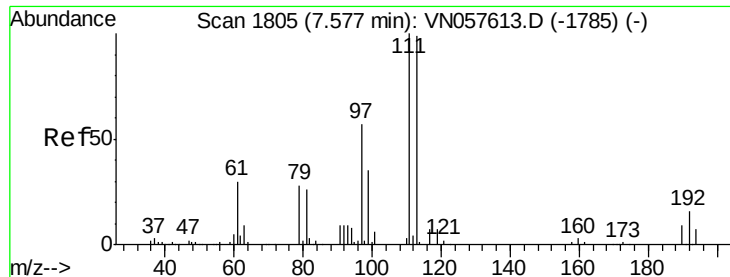
MMDadoda
 9/3/2019 11:52:15 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	25.4	0.0	49.0	
88	17.7	0.0	33.0	





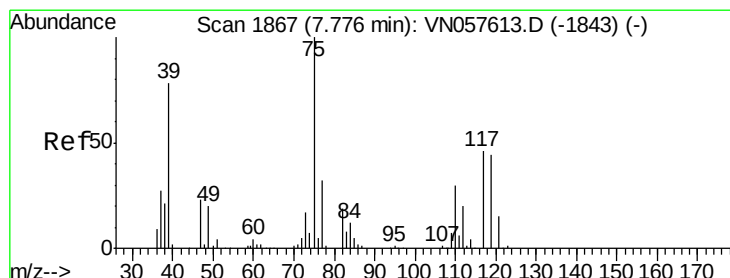
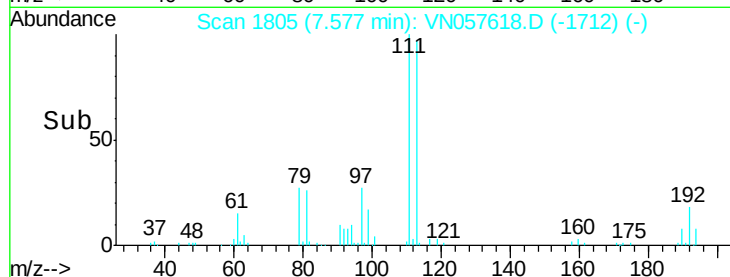
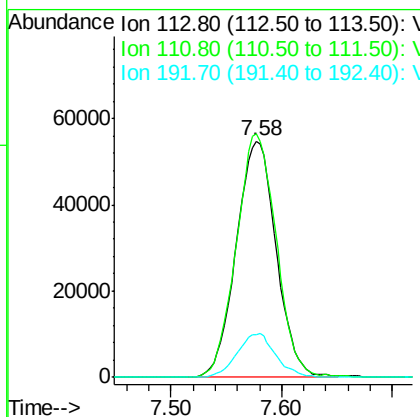
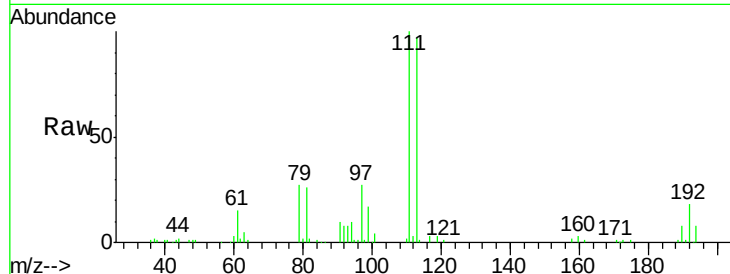
#35
 Dibromofluoromethane
 Concen: 48.915 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.5	81.3	121.9	
192	17.8	13.5	20.3	

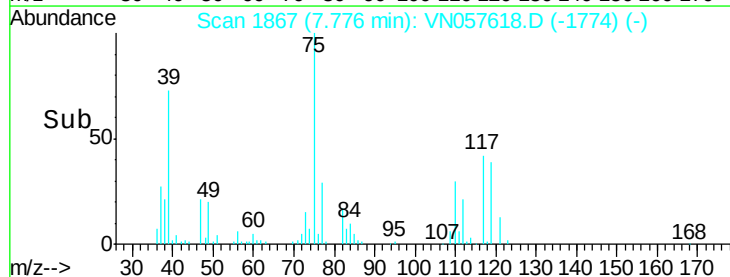
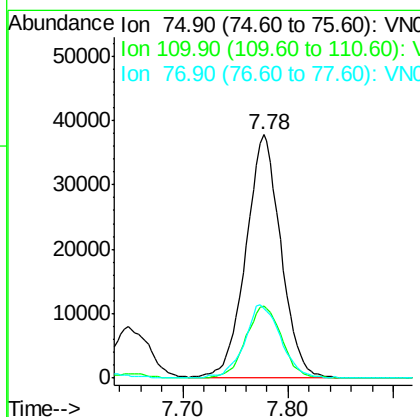
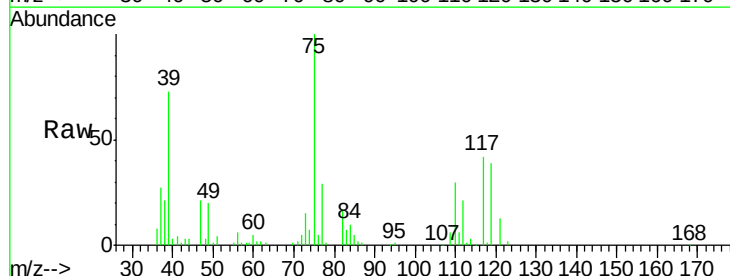
Manual Integrations
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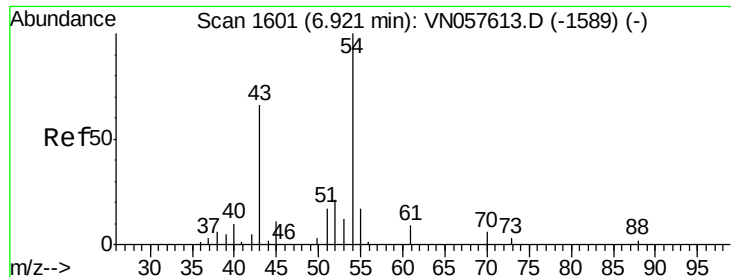
MMDadoda
 9/3/2019 11:52:15 AM



#36
 1,1-Dichloropropene
 Concen: 20.449 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	30.2	15.6	46.8	
77	31.1	24.9	37.3	





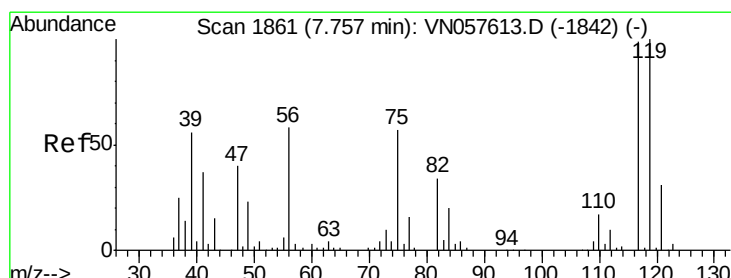
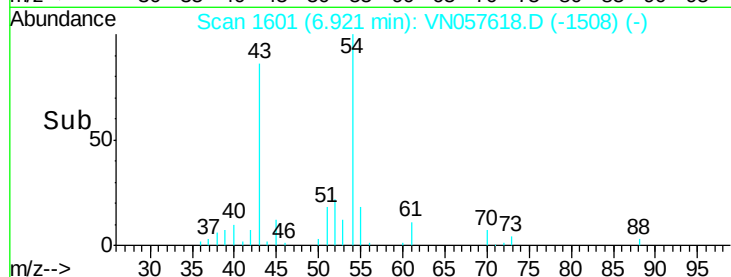
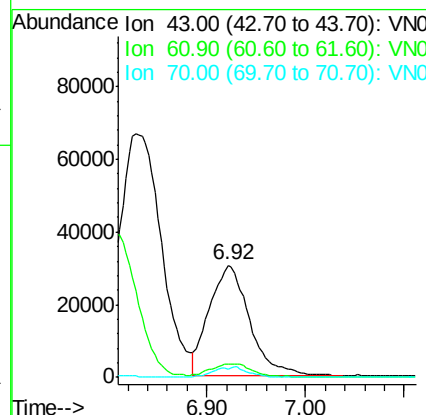
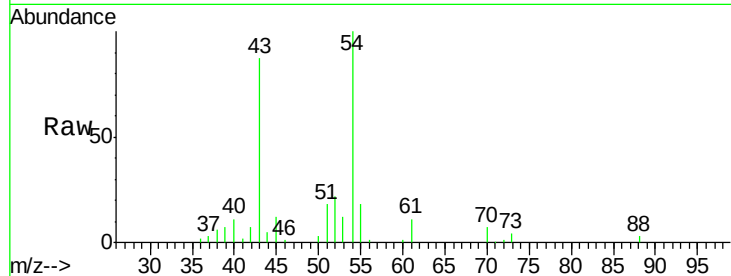
#37
Ethyl Acetate
Concen: 21.381 ug/l
RT: 6.92 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion	43	Ratio	Lower	Upper
43	100			
61	11.5	10.1	15.1	
70	3.9	6.8	10.2	

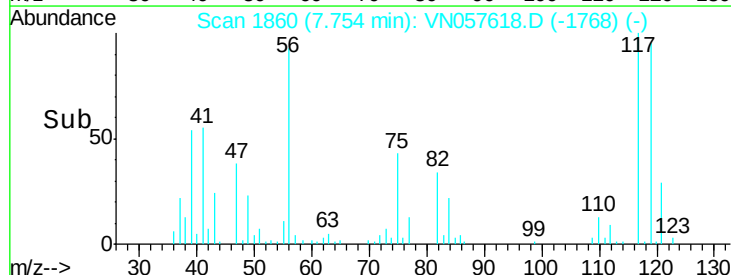
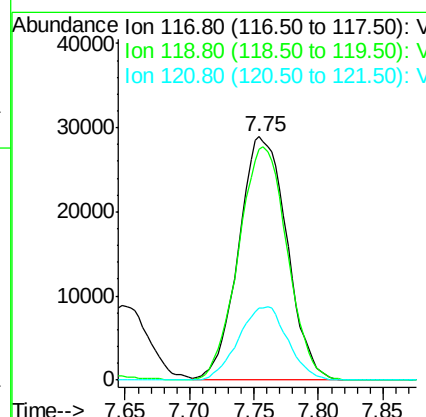
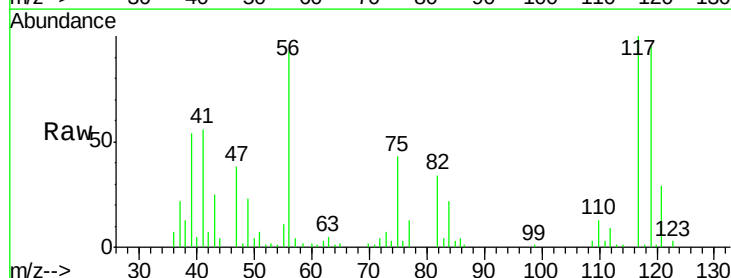
Manual Integrations
APPROVED

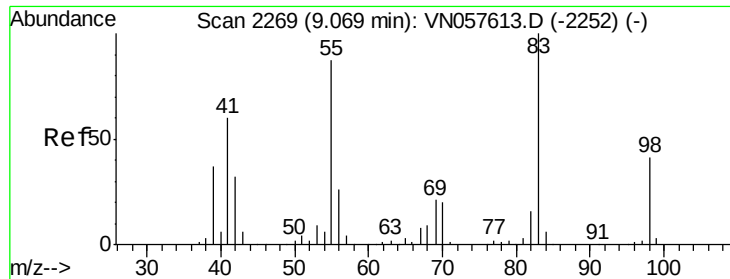
MMDadoda
9/3/2019 11:52:15 AM



#38
Carbon Tetrachloride
Concen: 19.691 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	94.9	80.6	120.8	
121	29.5	25.1	37.7	





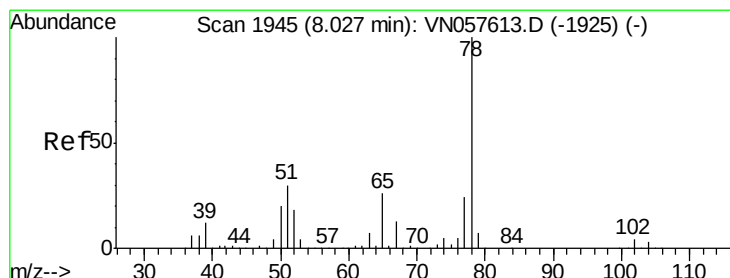
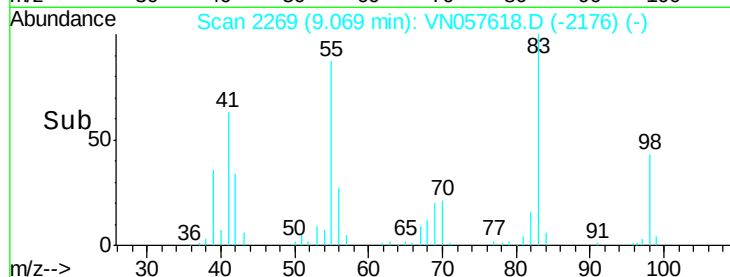
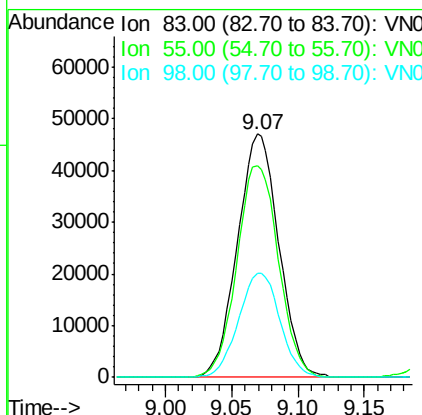
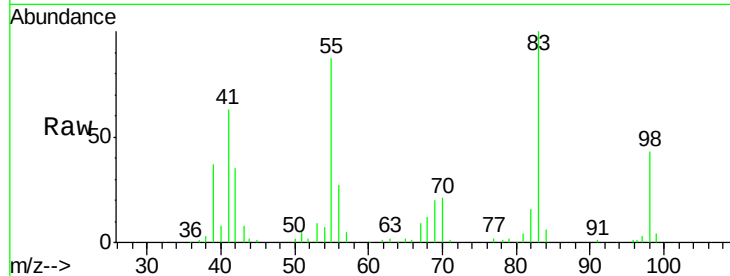
#39
Methylvlcyclohexane
Concen: 20.218 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	83	Resp	102097
Ion Ratio	Lower	Upper	
83	100		
55	87.1	69.8	104.8
98	42.6	32.7	49.1

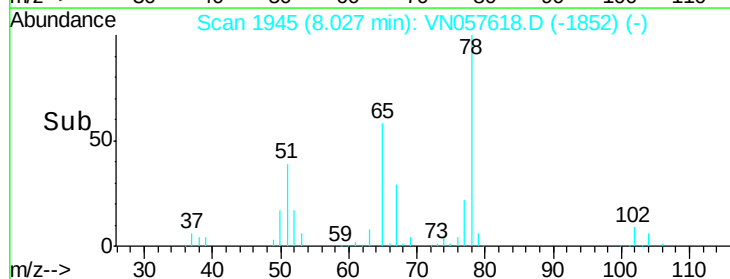
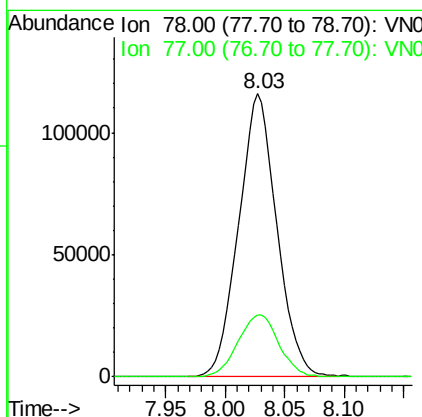
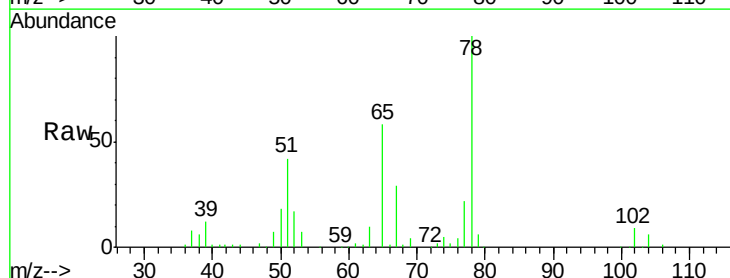
Manual Integrations
APPROVED

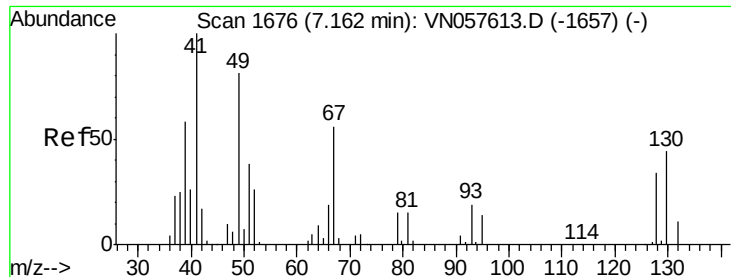
MMDadoda
9/3/2019 11:52:15 AM



#40
Benzene
Concen: 20.692 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	78	Resp	257452
Ion Ratio	Lower	Upper	
78	100		
77	22.0	19.1	28.7





#41

Methacrylonitrile

Concen: 21.069 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. -0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

VN0901WBS01

Tot Ion: 41 Resp: 44925

Ion Ratio Lower Upper

41 100

39 58.5 50.6 75.8

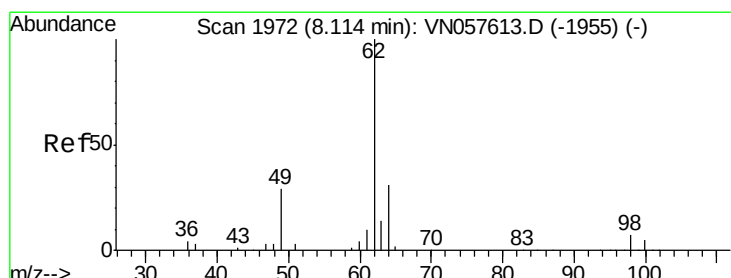
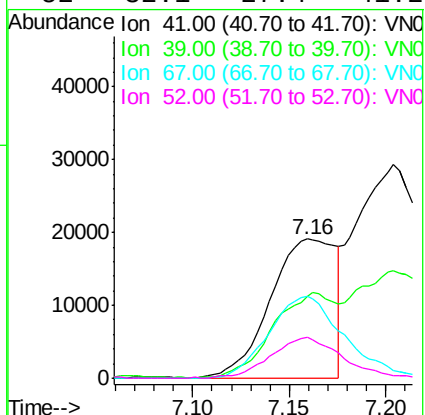
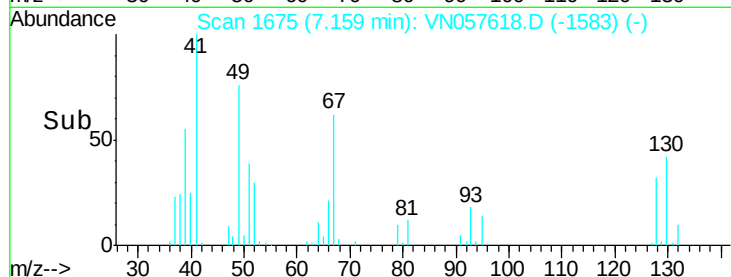
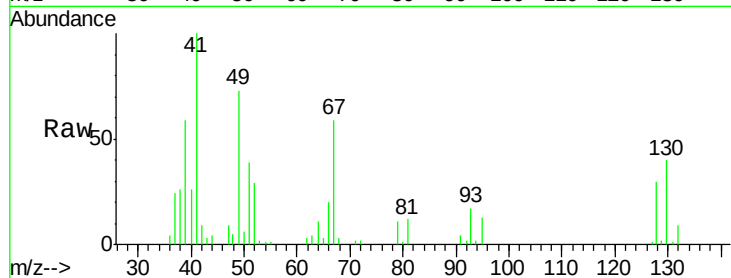
67 68.3 56.9 85.3

52 32.1 27.4 41.2

Manual Integrations
APPROVED

MMDadoda

9/3/2019 11:52:15 AM



#42

1,2-Dichloroethane

Concen: 20.745 ug/l

RT: 8.11 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VN057618.D

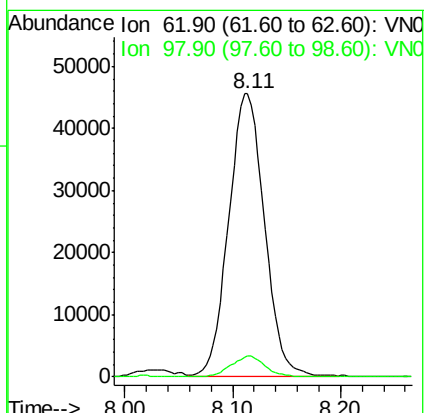
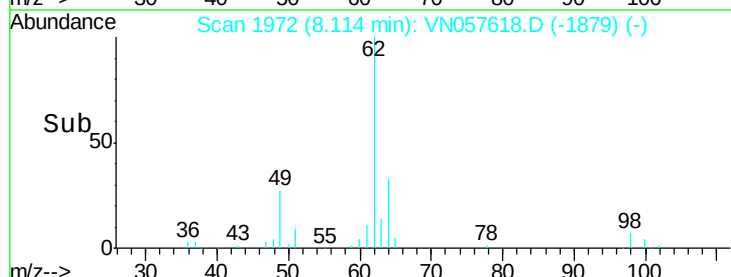
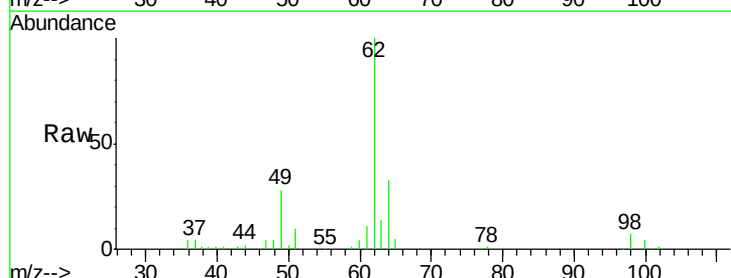
Acq: 31 Aug 2019 16:59

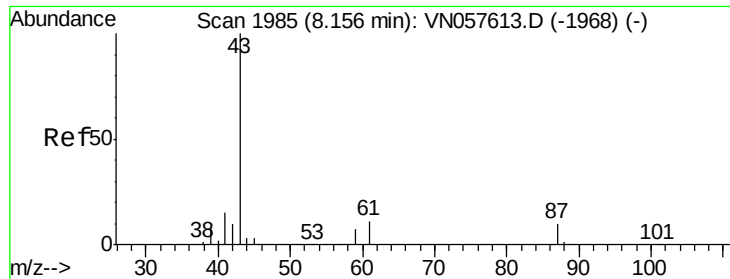
Tgt Ion: 62 Resp: 104836

Ion Ratio Lower Upper

62 100

98 7.0 0.0 14.0





#43

Isopropyl Acetate

Concen: 20.727 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

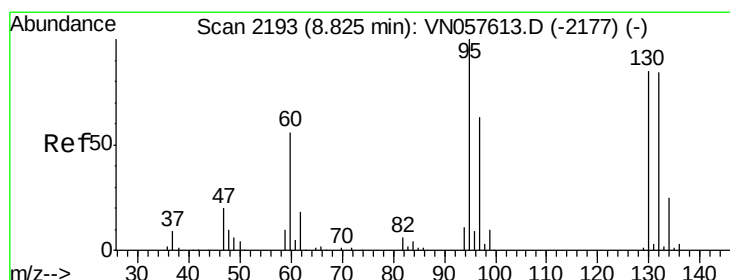
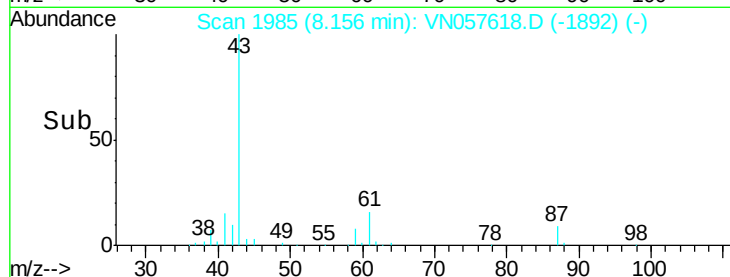
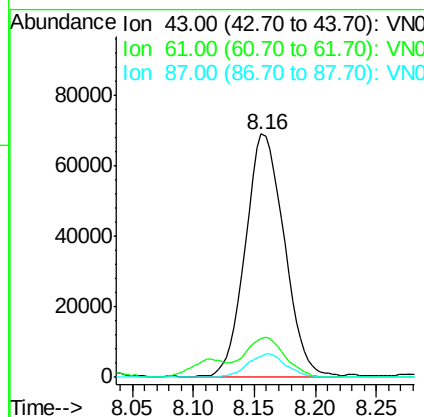
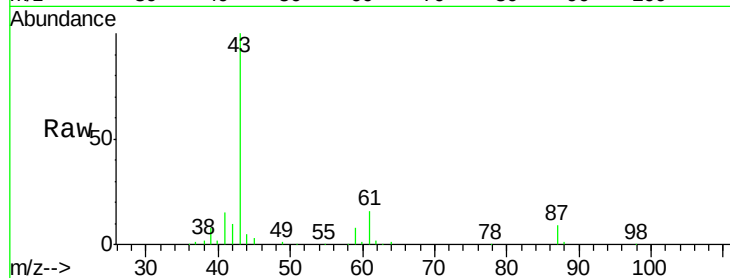
ClientSampleId :

VN0901WBS01

Tot Ion:	43	Resp:	151831
Ion	Ratio	Lower	Upper
43	100		
61	16.4	13.1	19.7
87	9.5	8.1	12.1

Manual Integrations
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#44

Trichloroethene

Concen: 20.059 ug/l

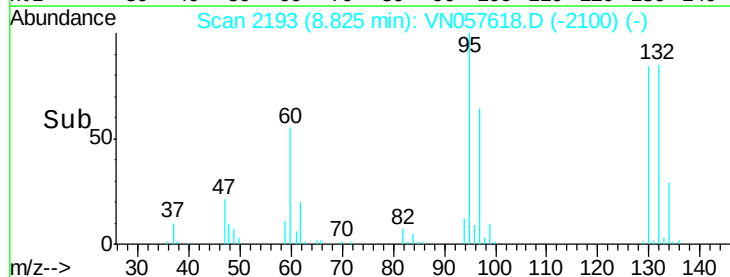
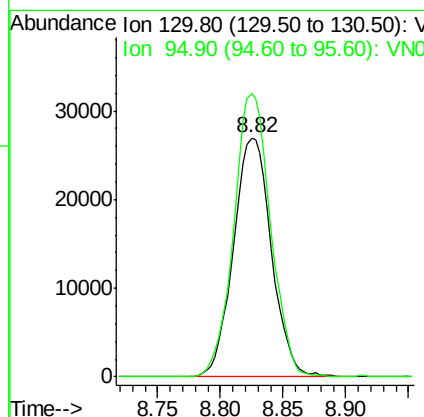
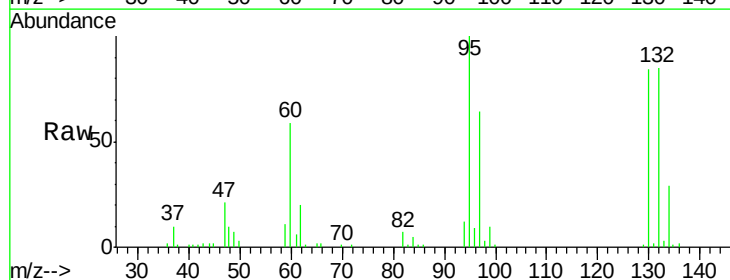
RT: 8.82 min Scan# 2193

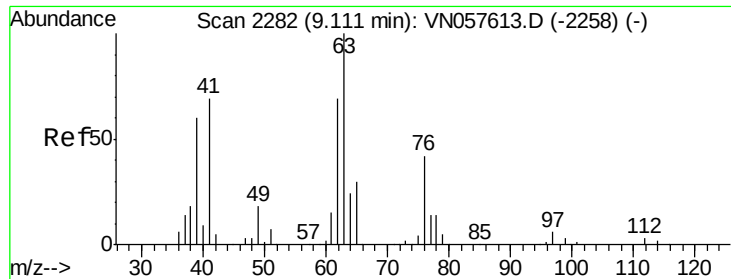
Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion:	130	Resp:	56617
Ion	Ratio	Lower	Upper
130	100		
95	118.4	0.0	234.4





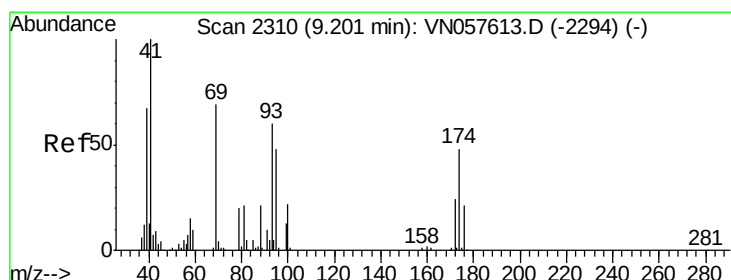
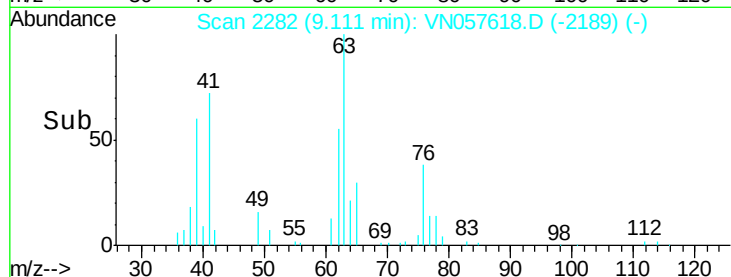
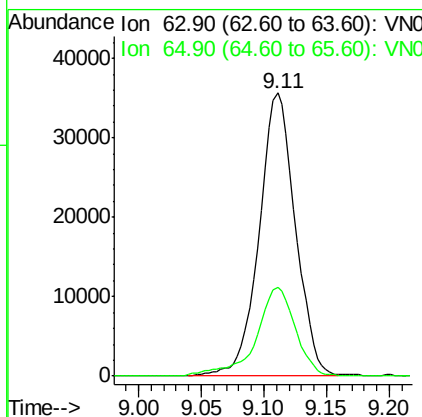
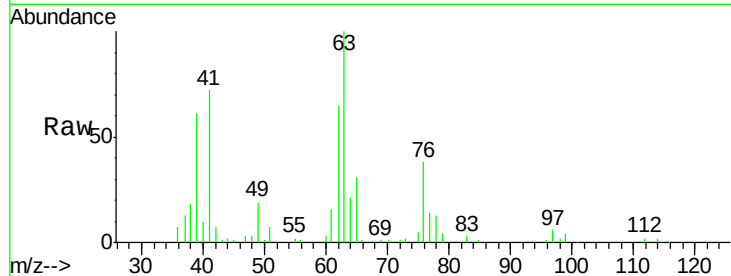
#45
 1,2-Dichloropropane
 Concen: 20.636 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBS01

Tot Ion: 63 Resp: 71517
 Ion Ratio Lower Upper
 63 100
 65 31.3 24.4 36.6

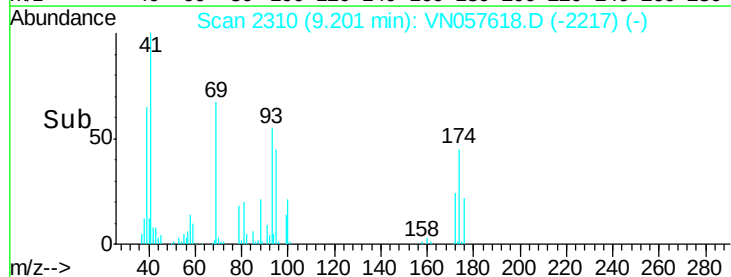
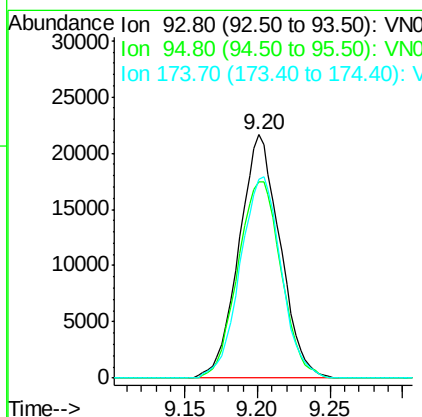
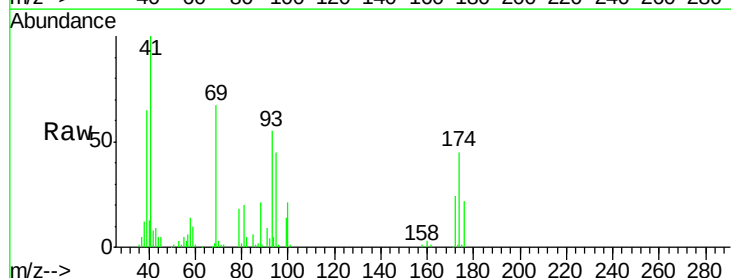
Manual Integrations
 APPROVED

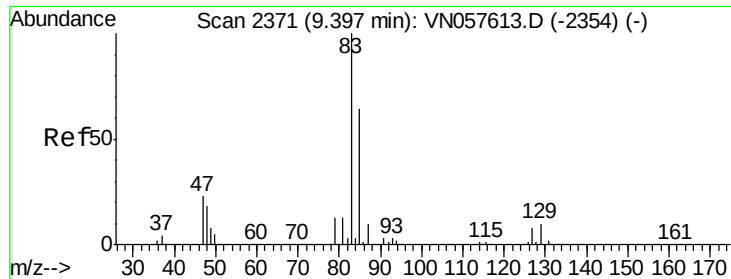
MMDadoda
 9/3/2019 11:52:15 AM



#46
 Dibromomethane
 Concen: 19.830 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion: 93 Resp: 42550
 Ion Ratio Lower Upper
 93 100
 95 85.4 65.8 98.6
 174 82.8 64.2 96.2





#47

Bromodichloromethane

Concen: 20.337 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

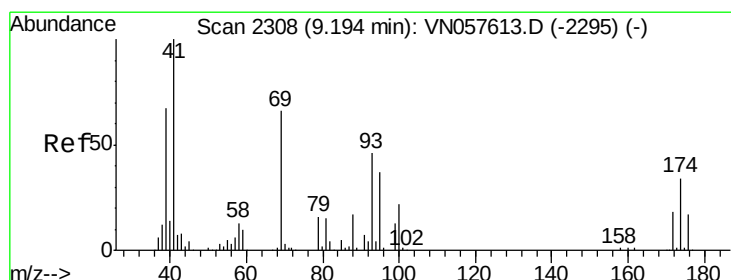
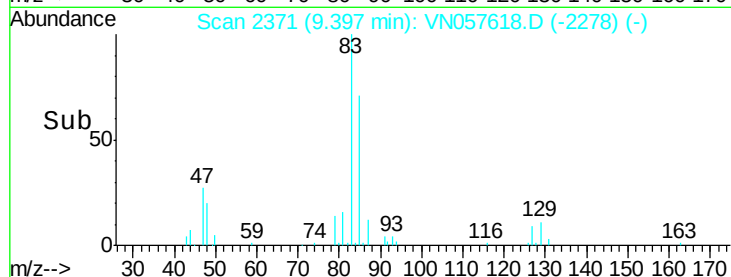
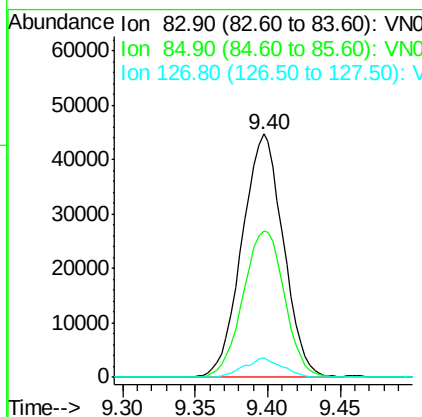
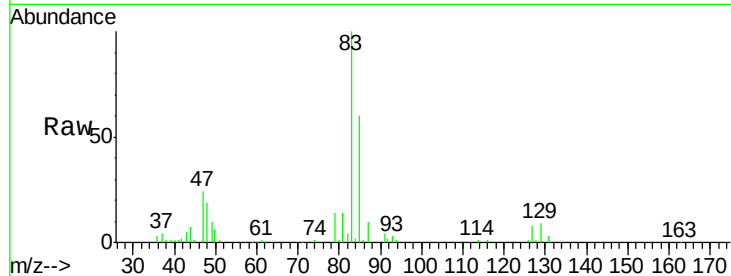
ClientSampleId :

VN0901WBS01

Tot Ion:	83	Resp:	88659
Ion Ratio	Lower	Upper	
83	100		
85	60.0	51.4	77.0
127	7.9	6.1	9.1

Manual Integrations
APPROVED

MMDadoda
9/3/2019 11:52:15 AM



#48

Methyl methacrylate

Concen: 21.071 ug/l

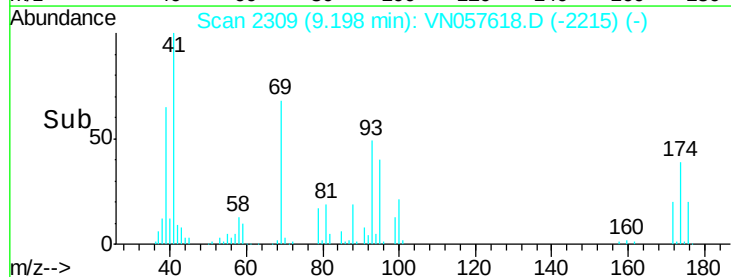
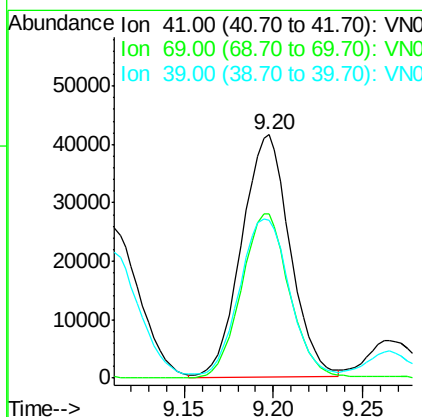
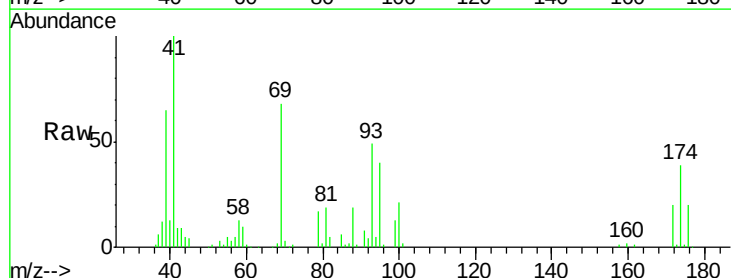
RT: 9.20 min Scan# 2309

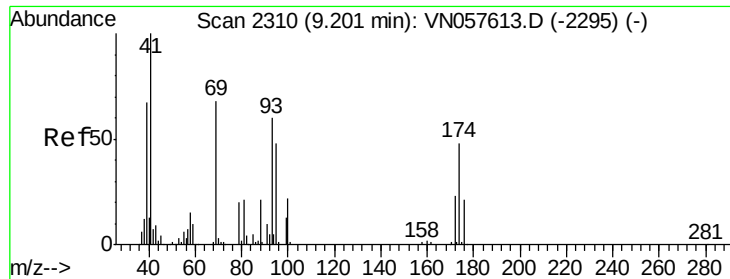
Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion:	41	Resp:	78804
Ion Ratio	Lower	Upper	
41	100		
69	67.3	55.1	82.7
39	68.4	55.4	83.2





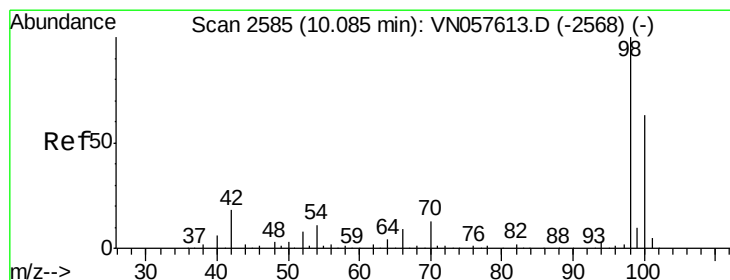
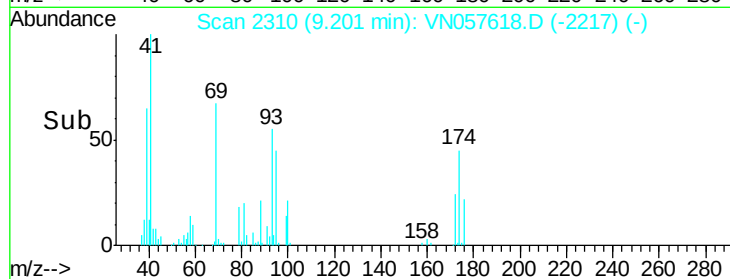
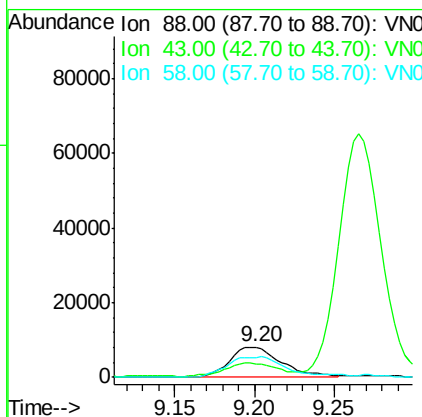
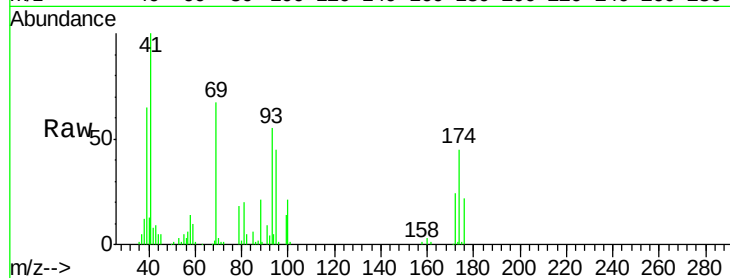
#49
1,4-Dioxane
Concen: 409.516 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	88	Resp	17934
Ion	Ratio	Lower	Upper
88	100		
43	45.3	35.0	52.4
58	75.3	61.6	92.4

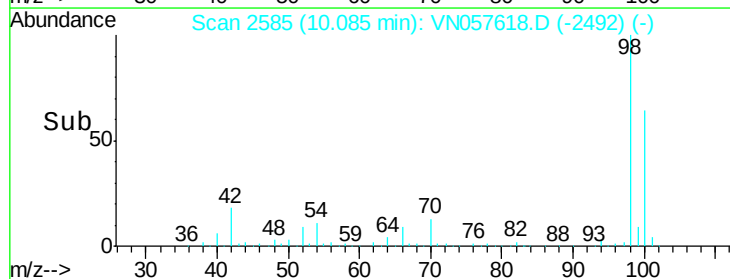
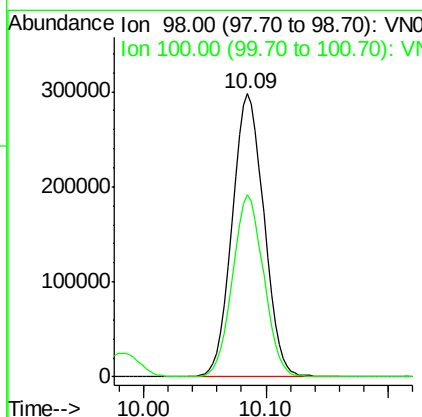
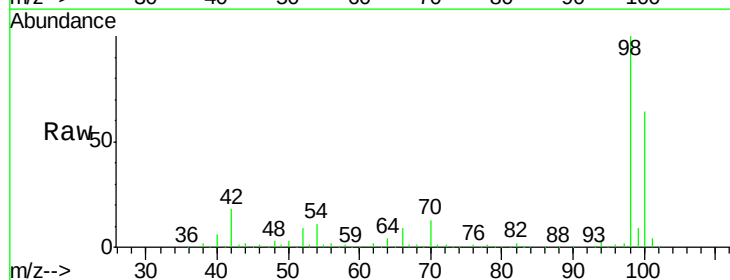
Manual Integrations
APPROVED

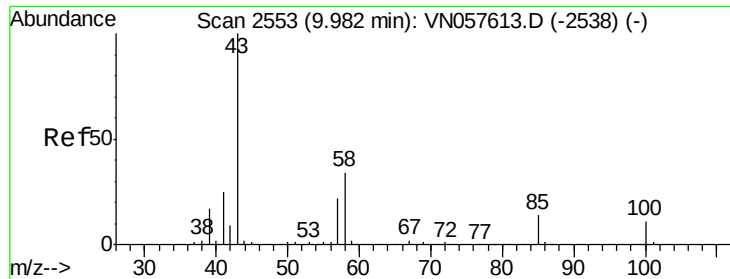
MMDadoda
9/3/2019 11:52:15 AM



#50
Toluene-d8
Concen: 49.950 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	98	Resp	539901
Ion	Ratio	Lower	Upper
98	100		
100	62.9	49.8	74.8





#51

4-Methyl-2-Pentanone

Concen: 106.172 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

VN0901WBS01

Tot Ion: 43 Resp: 445744

Ion Ratio Lower Upper

43 100

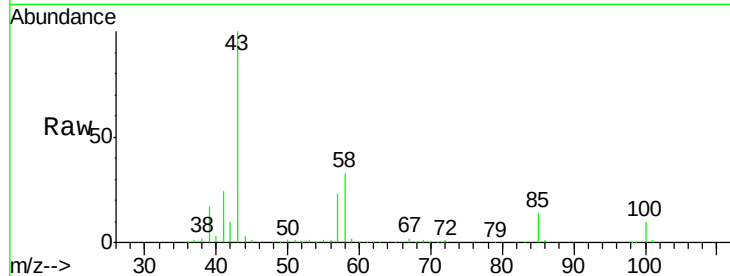
58 33.0 26.9 40.3

Manual Integrations

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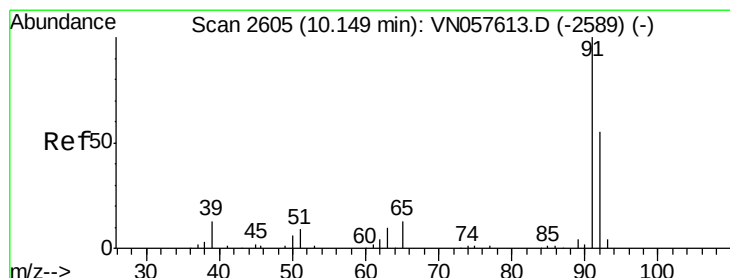
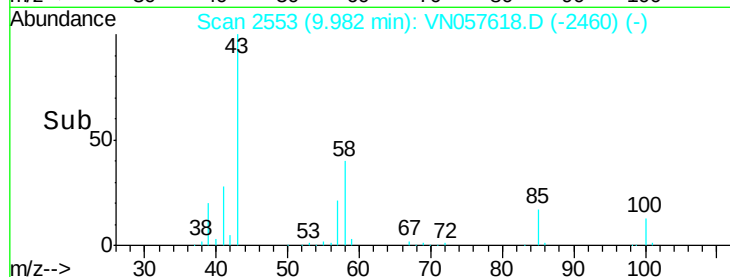
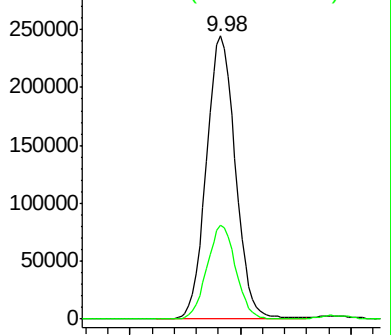
MMDadoda

9/3/2019 11:52:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.936 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057618.D

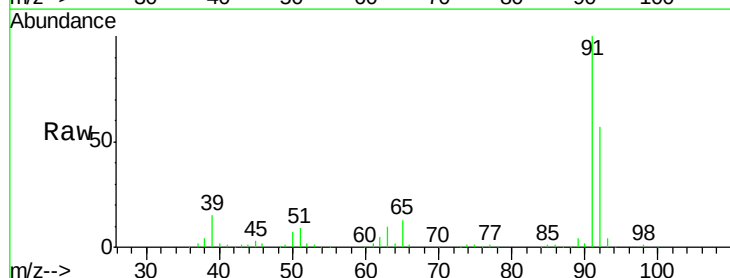
Acq: 31 Aug 2019 16:59

Tgt Ion: 92 Resp: 153956

Ion Ratio Lower Upper

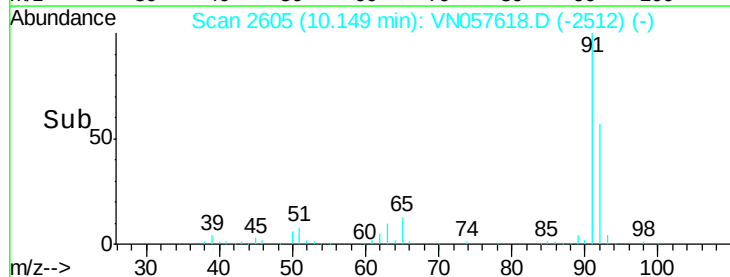
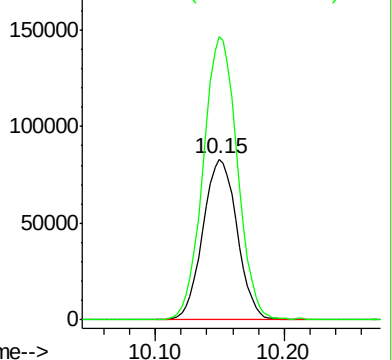
92 100

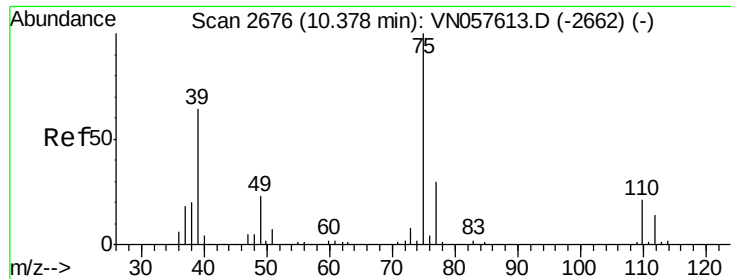
91 175.1 143.8 215.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





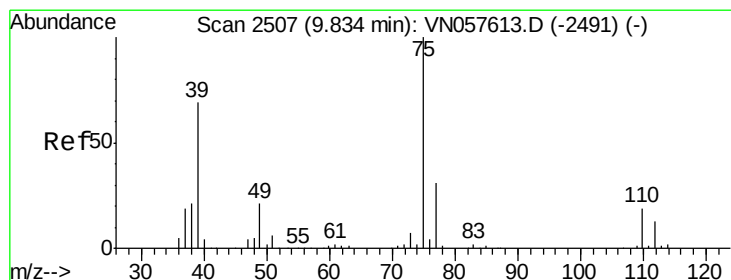
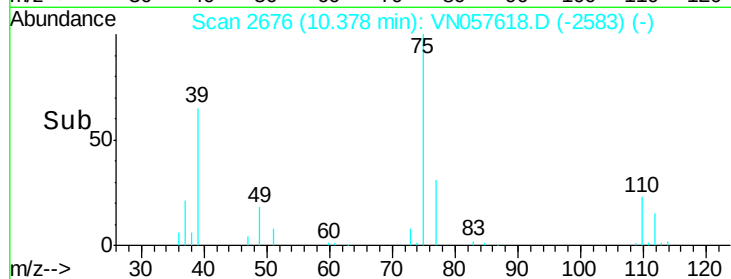
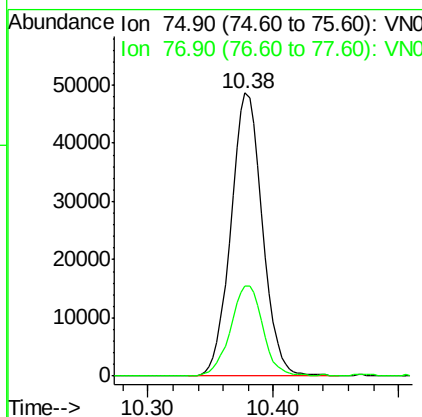
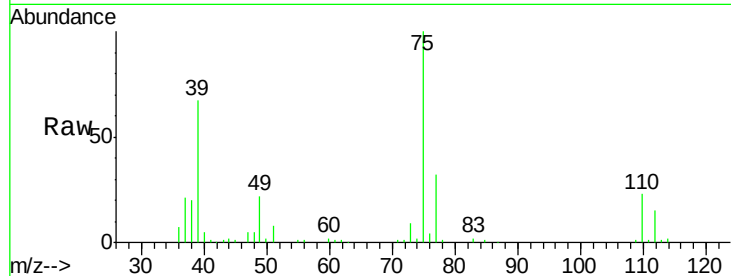
#53
t-1,3-Dichloropropene
Concen: 19.515 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.1	36.1

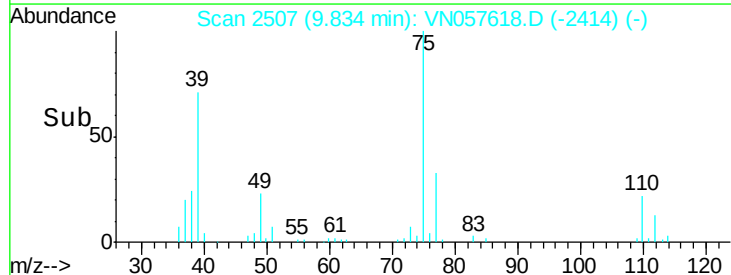
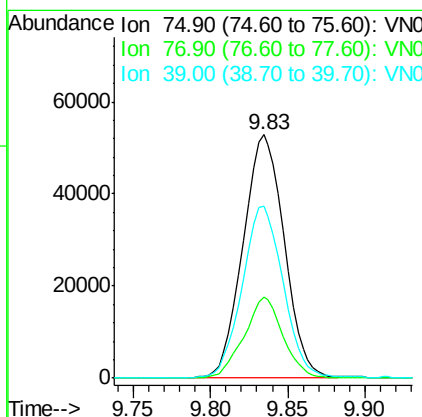
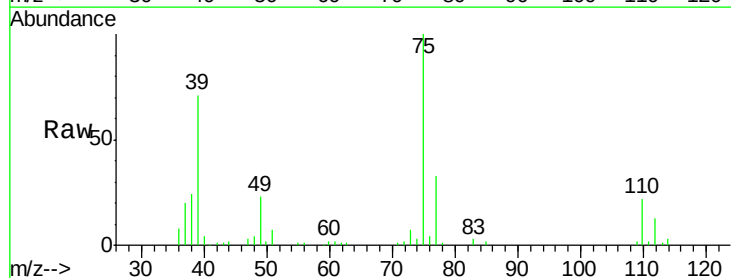
Manual Integrations
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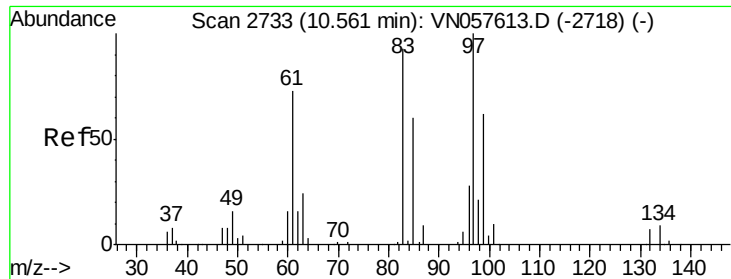
MMDadoda
9/3/2019 11:52:15 AM



#54
cis-1,3-Dichloropropene
Concen: 19.525 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.1	24.8	37.2
39	70.4	55.0	82.4





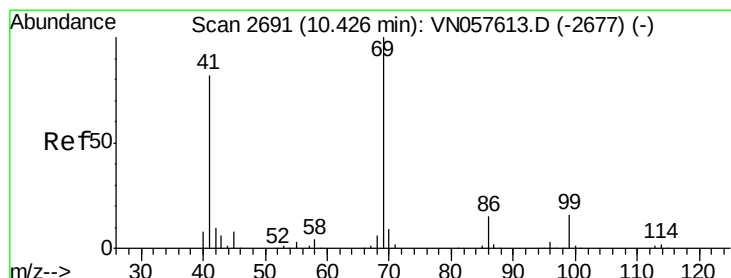
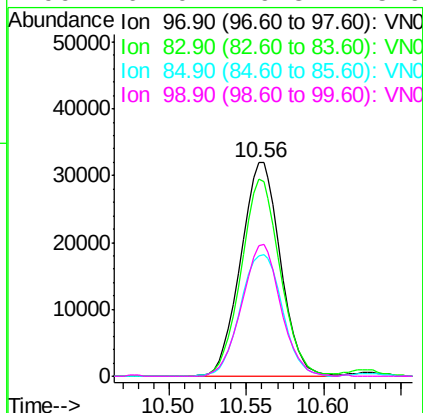
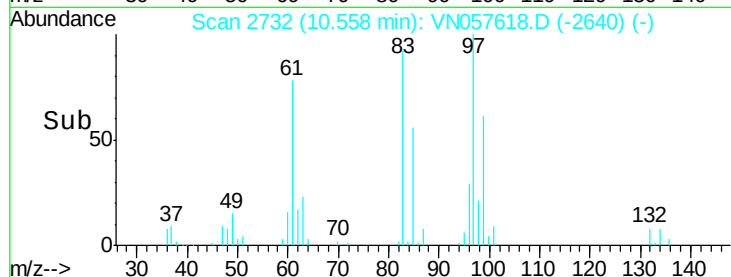
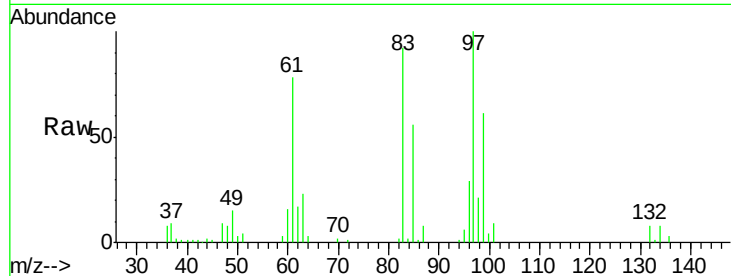
#55
 1,1,2-Trichloroethane
 Concen: 20.550 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBS01

Tot Ion:	97	Resp:	57334
Ion	Ratio	Lower	Upper
97	100		
83	92.2	74.2	111.2
85	56.4	47.8	71.8
99	61.0	49.3	73.9

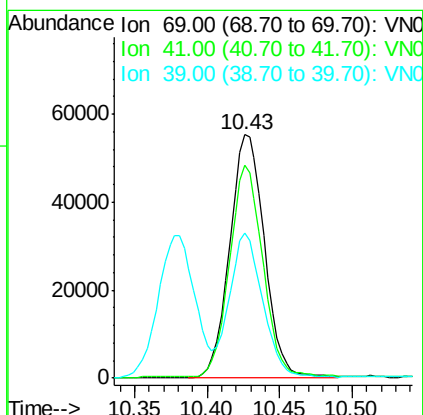
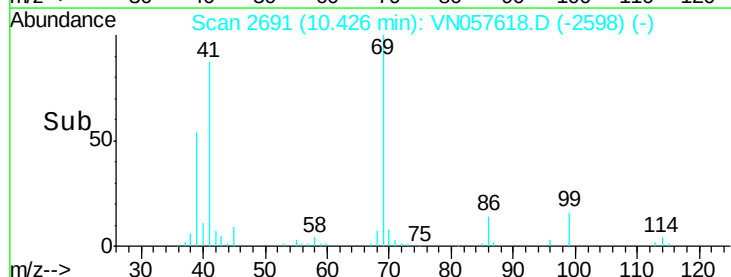
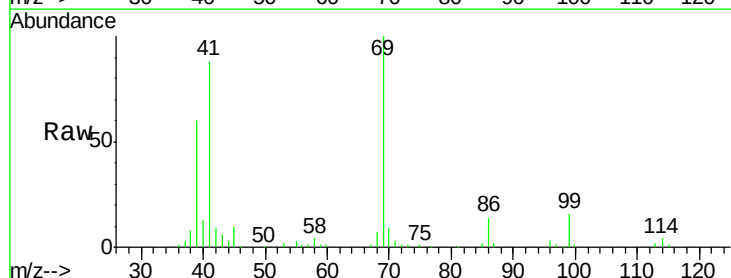
Manual Integrations
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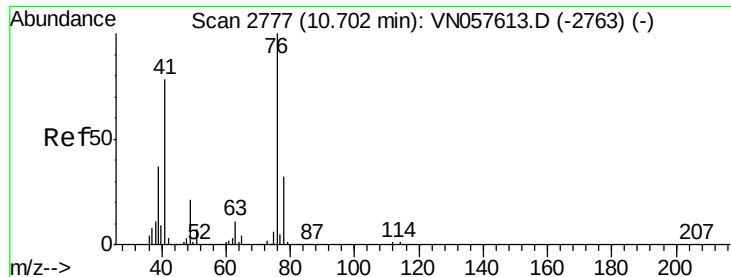
MMDadoda
 9/3/2019 11:52:15 AM



#56
 Ethyl methacrylate
 Concen: 19.790 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion:	69	Resp:	92142
Ion	Ratio	Lower	Upper
69	100		
41	82.6	65.8	98.6
39	56.7	43.8	65.8





#57

1,3-Dichloropropane

Concen: 20.387 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBS01

Tot Ion: 76 Resp: 104357

Ion Ratio Lower Upper

76 100

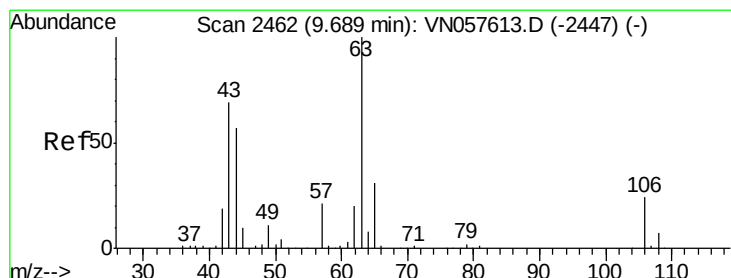
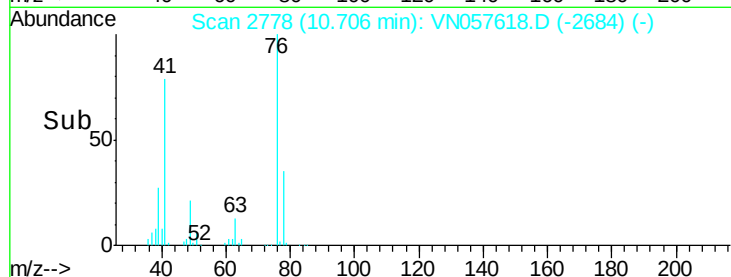
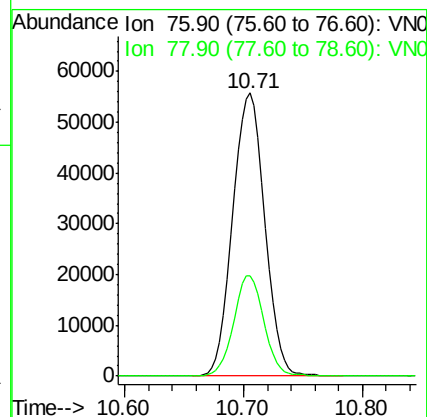
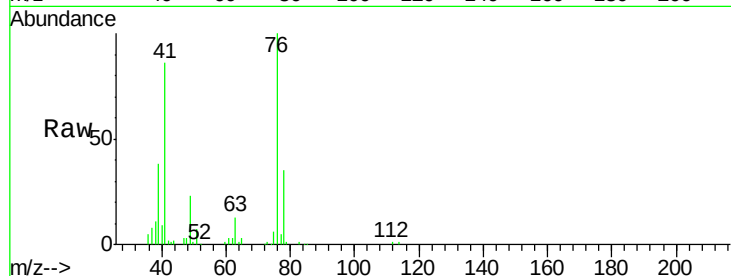
78 33.4 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

9/3/2019 11:52:15 AM



#58

2-Chloroethyl Vinyl ether

Concen: 92.939 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057618.D

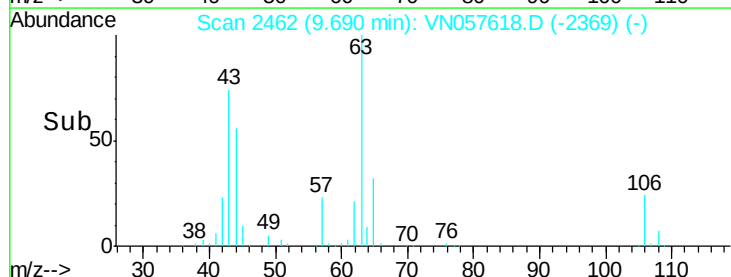
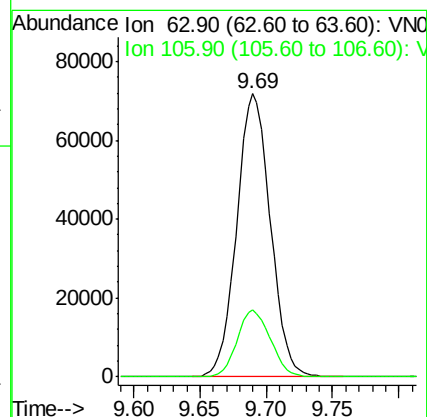
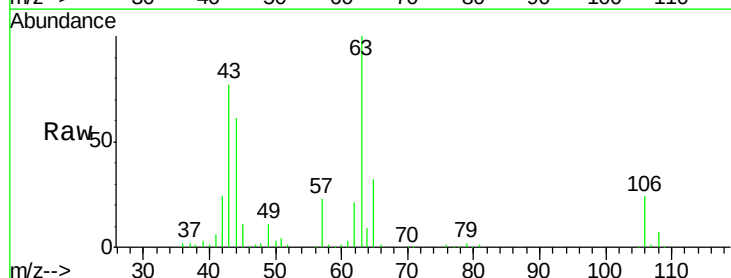
Acq: 31 Aug 2019 16:59

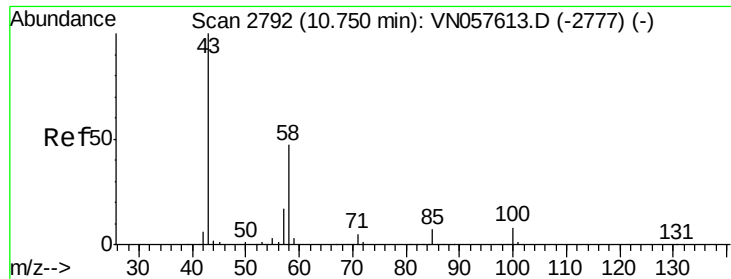
Tgt Ion: 63 Resp: 126598

Ion Ratio Lower Upper

63 100

106 23.3 18.3 27.5





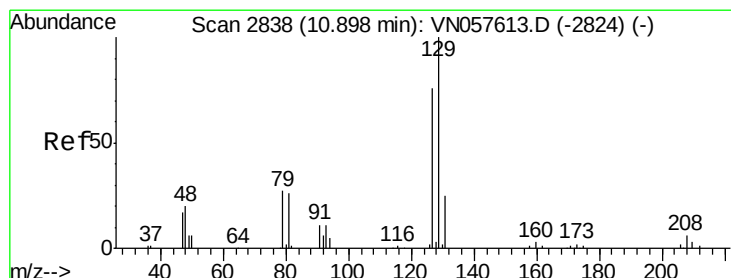
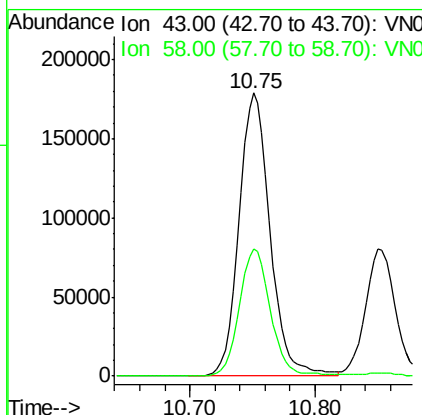
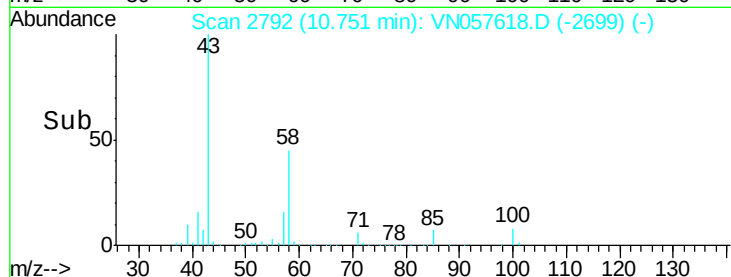
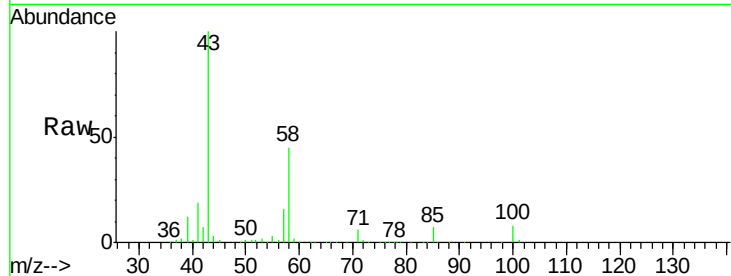
#59
2-Hexanone
Concen: 99.521 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion: 43 Resp: 306830
Ion Ratio Lower Upper
43 100
58 45.2 23.5 70.5

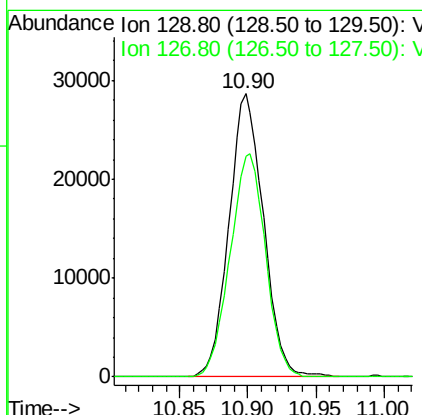
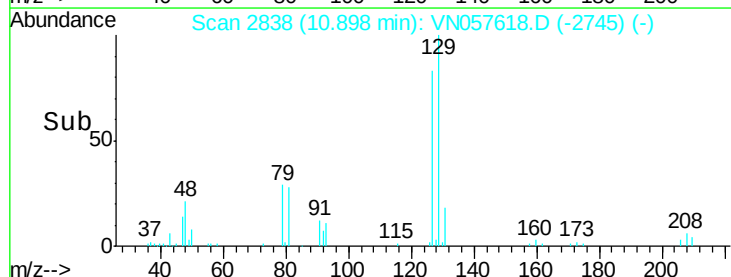
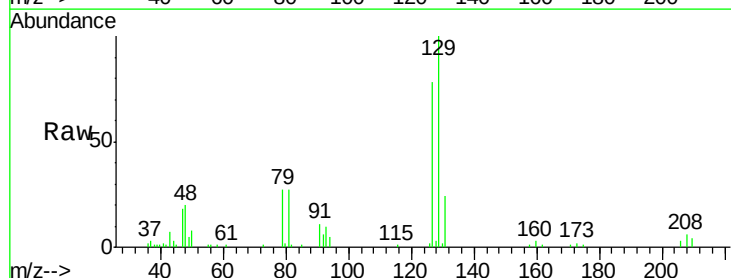
Manual Integrations
APPROVED

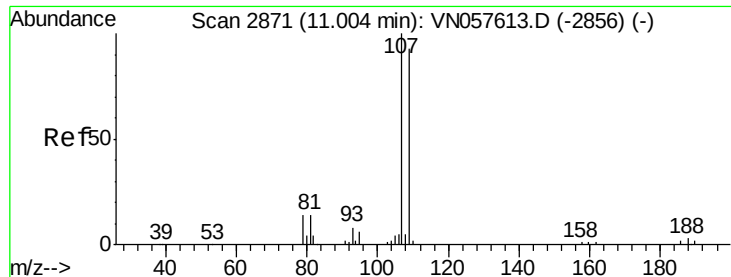
MMDadoda
9/3/2019 11:52:15 AM



#60
Dibromochloromethane
Concen: 18.854 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion: 129 Resp: 50397
Ion Ratio Lower Upper
129 100
127 80.4 38.3 114.8





#61

1,2-Dibromoethane

Concen: 20.279 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

VN0901WBS01

Tot Ion: 107 Resp: 56970

Ion Ratio Lower Upper

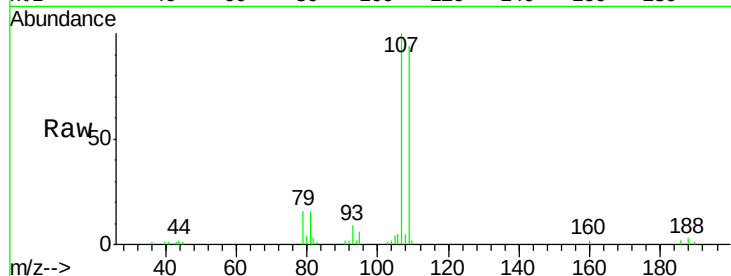
107 100

109 95.8 75.0 112.4

Manual Integrations
APPROVED

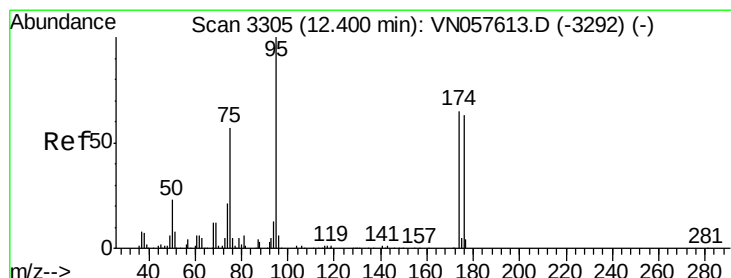
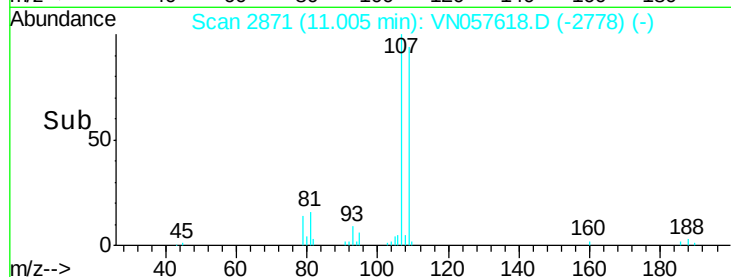
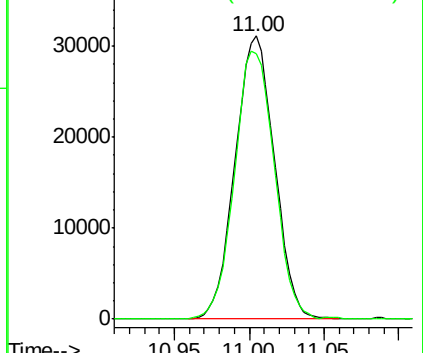
MMDadoda

9/3/2019 11:52:15 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 44.981 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

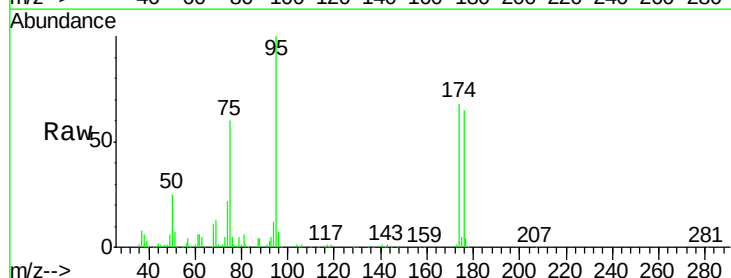
Tgt Ion: 95 Resp: 184880

Ion Ratio Lower Upper

95 100

174 66.4 0.0 134.8

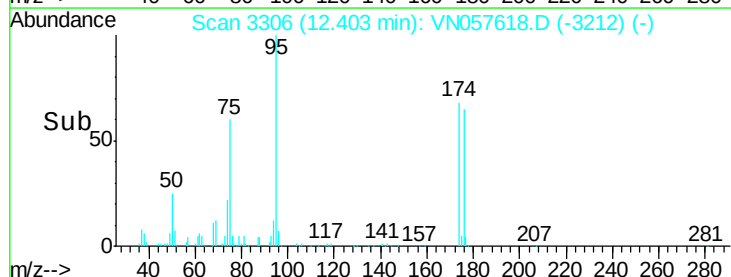
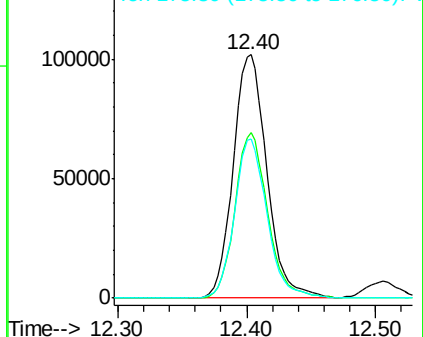
176 63.3 0.0 131.6

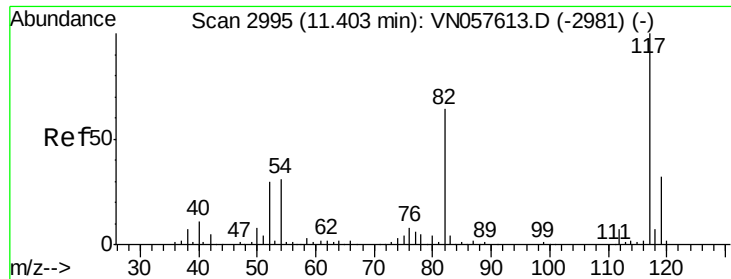


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





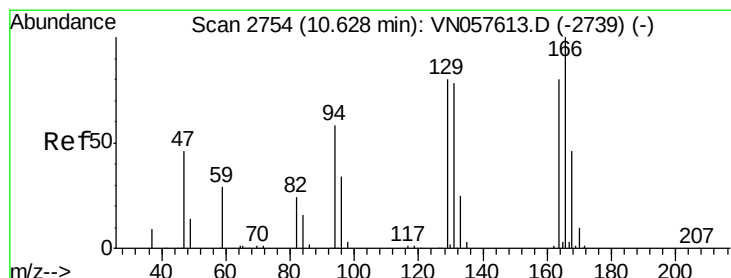
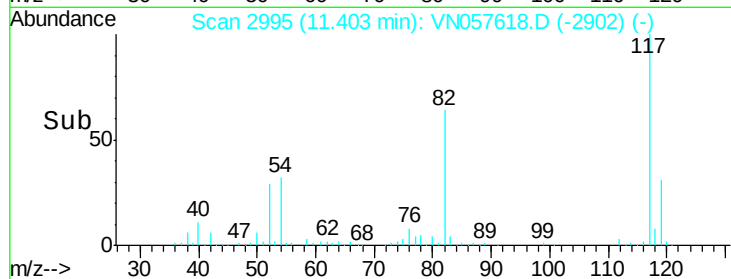
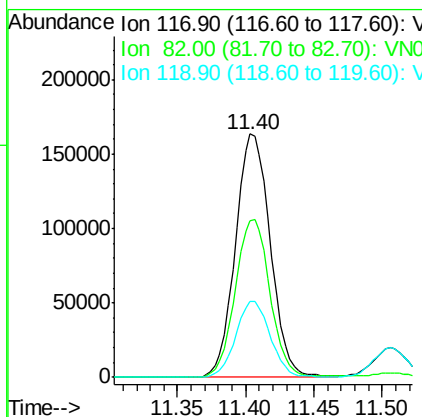
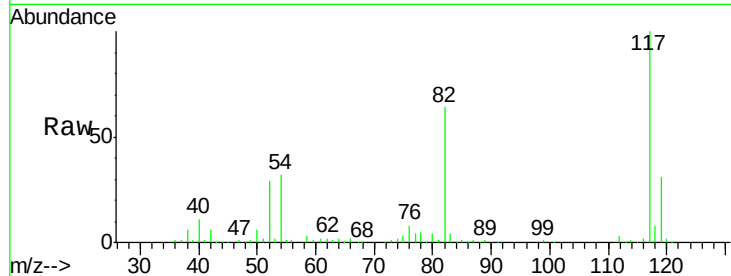
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	290901		
82	64.3	51.6	77.4	
119	31.1	25.8	38.6	

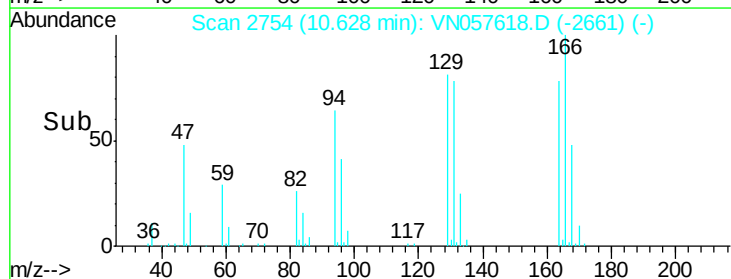
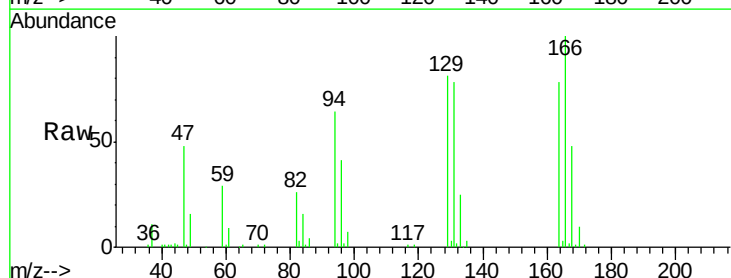
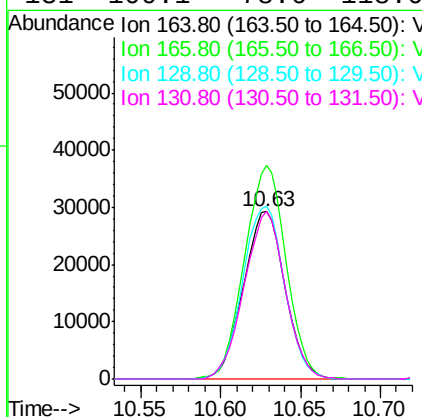
Manual Integrations
APPROVED

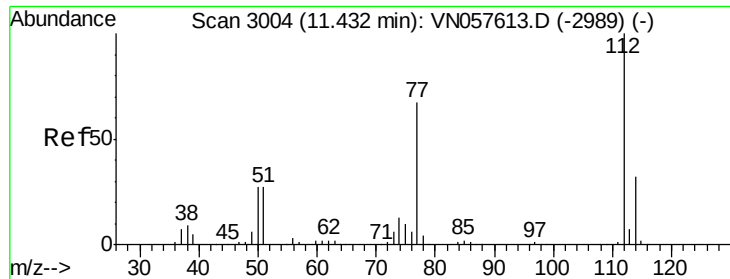
MMDadoda
9/3/2019 11:52:15 AM



#64
Tetrachloroethene
Concen: 20.668 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	52061		
166	127.5	100.6	151.0	
129	103.4	80.4	120.6	
131	100.1	78.6	118.0	





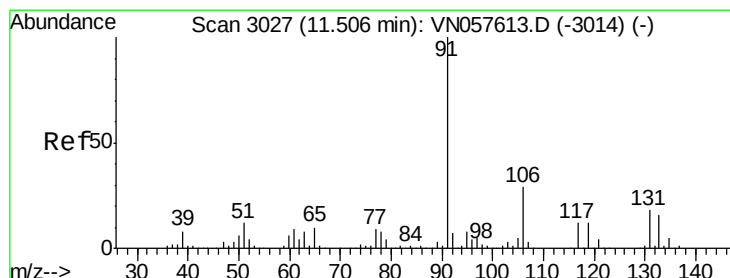
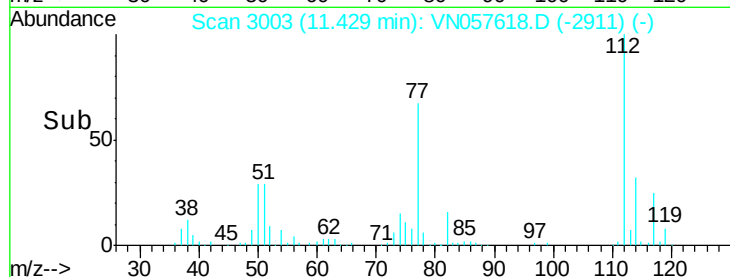
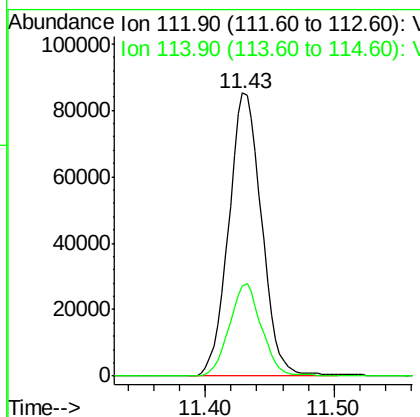
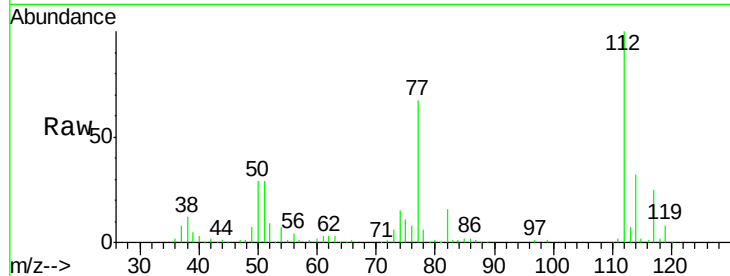
#65
Chlorobenzene
Concen: 20.730 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion:112 Resp: 151107
Ion Ratio Lower Upper
112 100
114 32.1 25.3 37.9

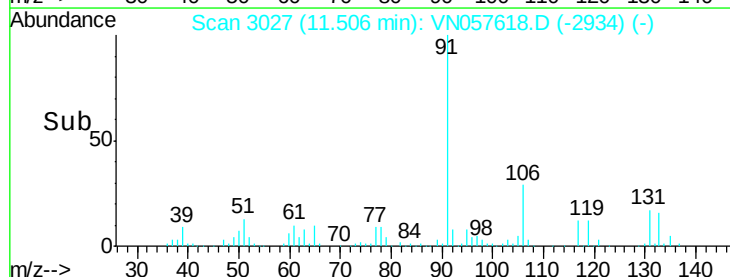
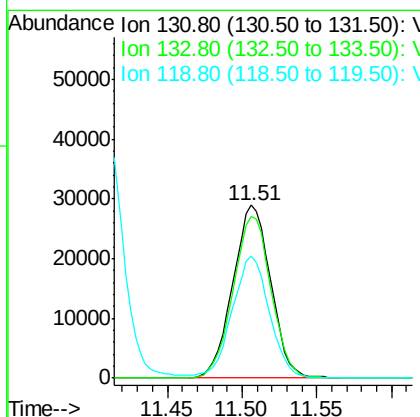
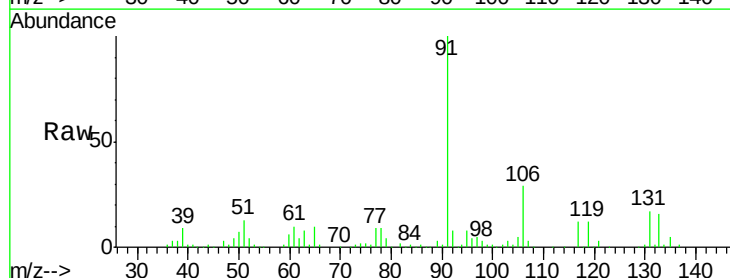
Manual Integrations
APPROVED

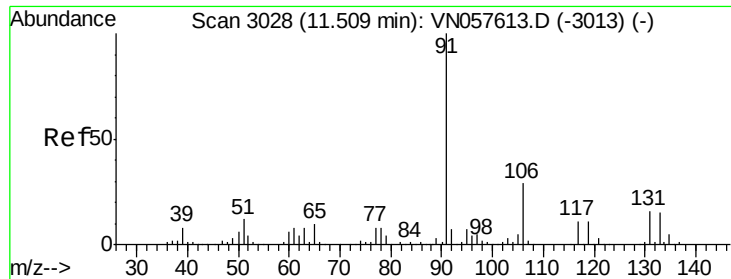
MMDadoda
9/3/2019 11:52:15 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.072 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion:131 Resp: 51028
Ion Ratio Lower Upper
131 100
133 93.8 47.8 143.4
119 69.3 33.9 101.6





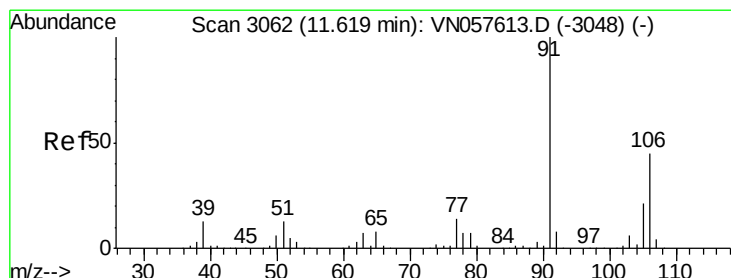
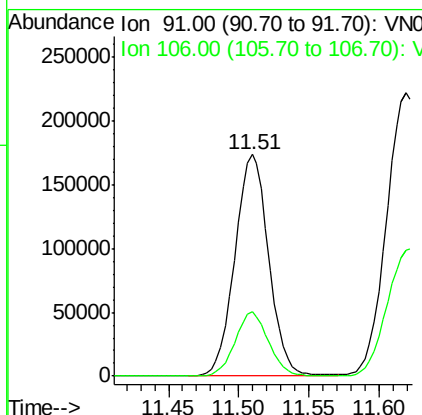
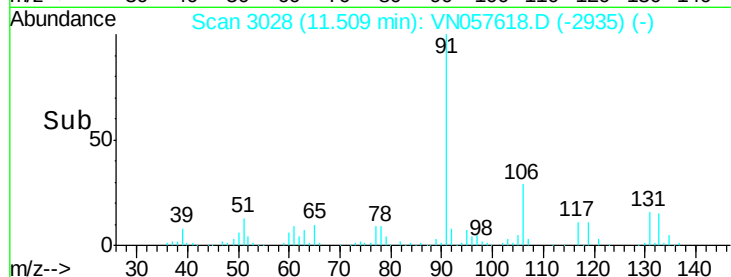
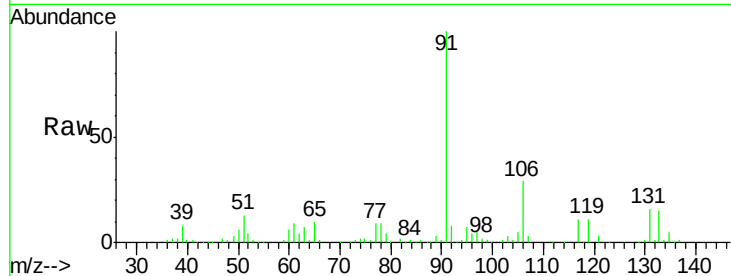
#67
Ethyl Benzene
Concen: 20.672 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion: 91 Resp: 292788
Ion Ratio Lower Upper
91 100
106 29.1 22.9 34.3

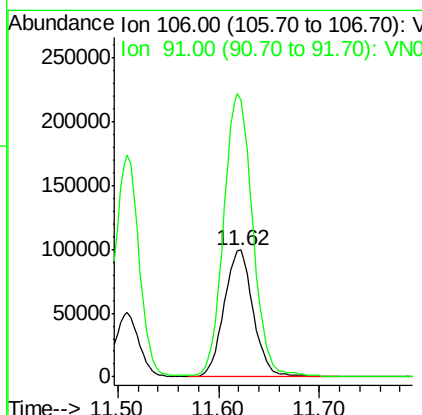
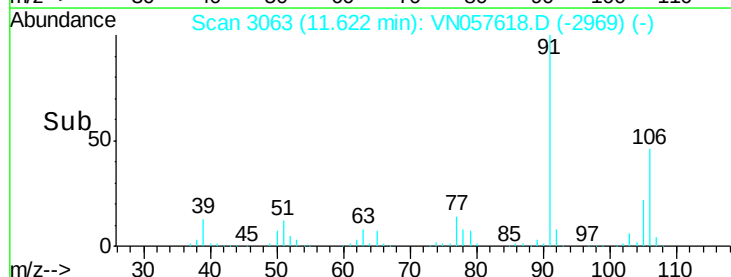
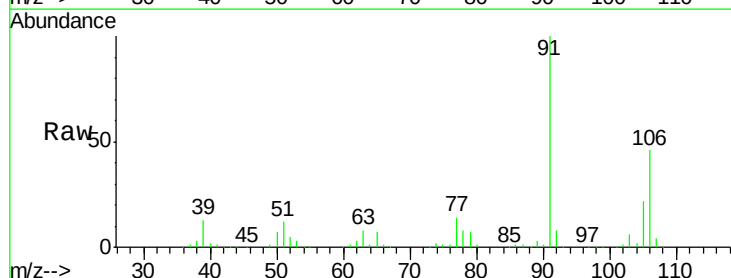
Manual Integrations
APPROVED

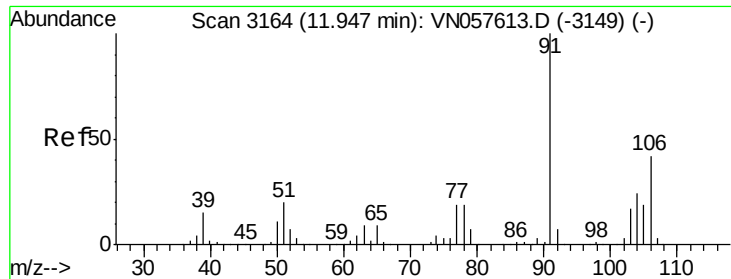
MMDadoda
9/3/2019 11:52:15 AM



#68
m/p-Xylenes
Concen: 40.313 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion: 106 Resp: 201147
Ion Ratio Lower Upper
106 100
91 222.1 176.2 264.2





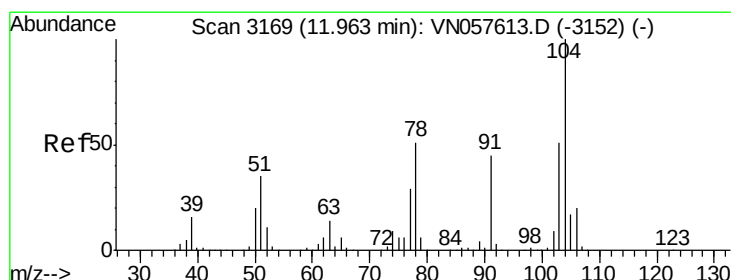
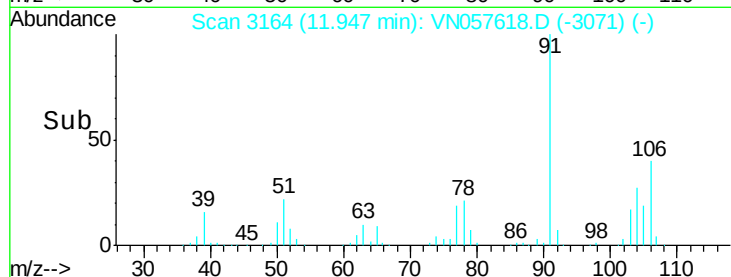
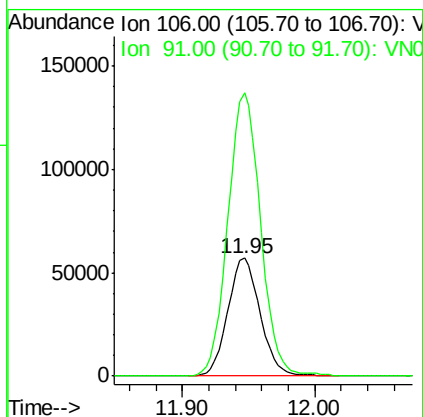
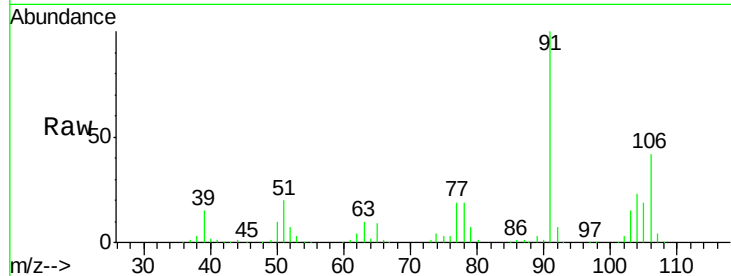
#69
o-Xylene
Concen: 20.066 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion:106 Resp: 97030
Ion Ratio Lower Upper
106 100
91 242.4 117.3 351.8

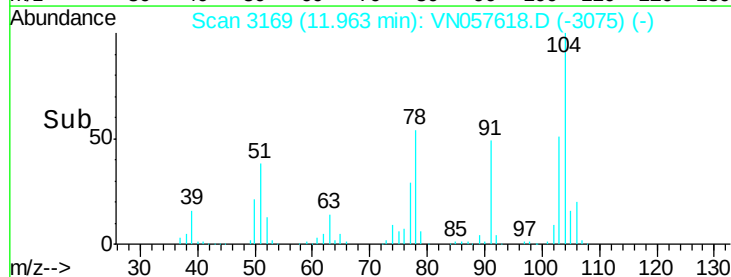
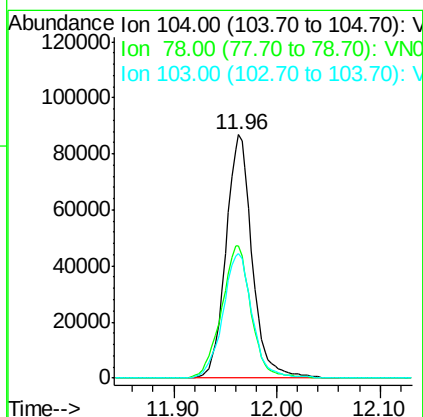
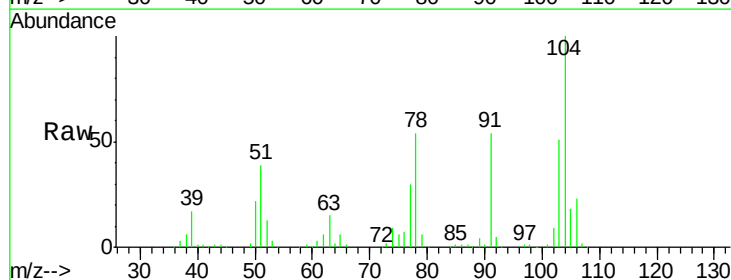
Manual Integrations
APPROVED

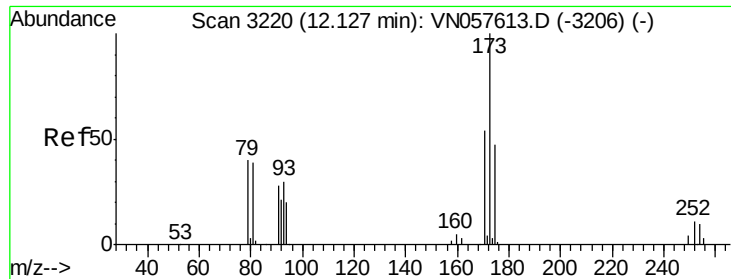
MMDadoda
9/3/2019 11:52:15 AM



#70
Styrene
Concen: 19.395 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion:104 Resp: 154283
Ion Ratio Lower Upper
104 100
78 61.2 46.6 70.0
103 57.0 44.7 67.1





#71

Bromoform

Concen: 20.088 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

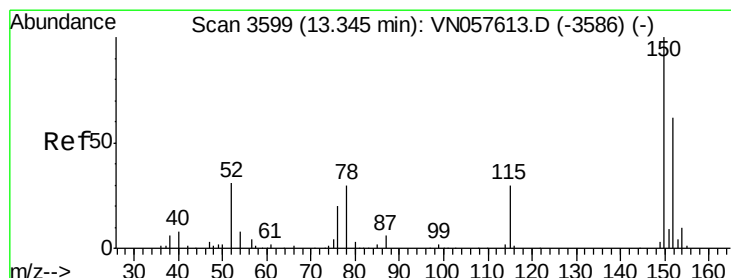
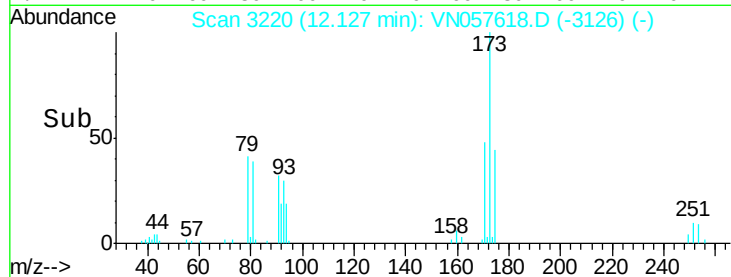
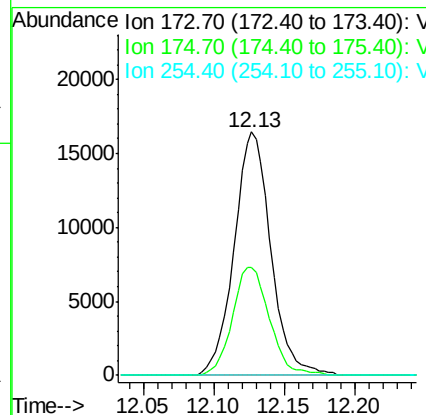
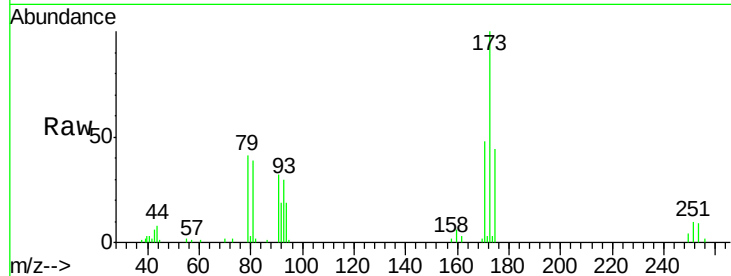
ClientSampleId :

VN0901WBS01

Tot Ion:	173	Resp:	29927
Ion Ratio	Lower	Upper	
173	100		
175	44.8	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

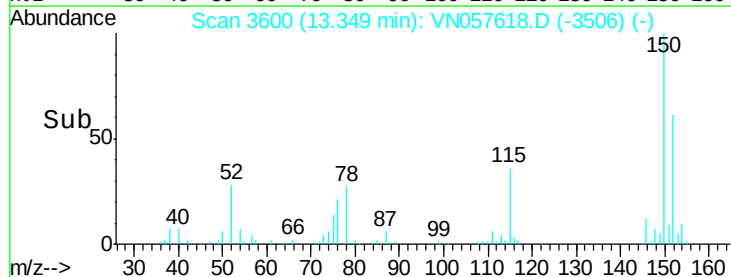
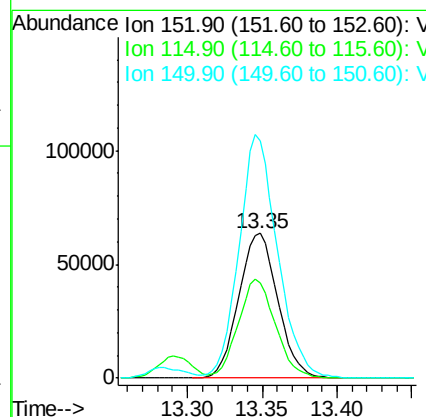
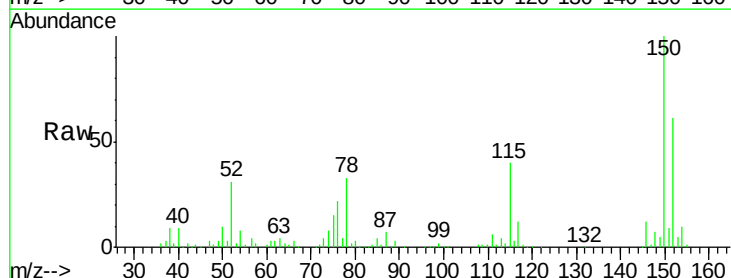
RT: 13.35 min Scan# 3600

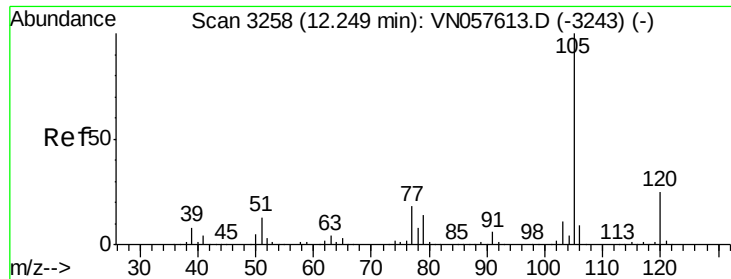
Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion:	152	Resp:	115158
Ion Ratio	Lower	Upper	
152	100		
115	65.8	33.2	99.6
150	166.5	0.0	365.2





#73

Isopropylbenzene

Concen: 23.375 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

VN0901WBS01

Tot Ion:105 Resp: 271778

Ion Ratio Lower Upper

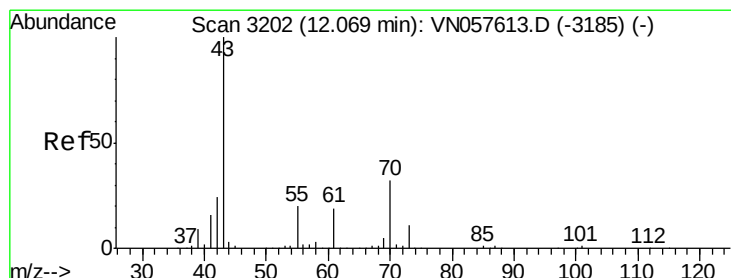
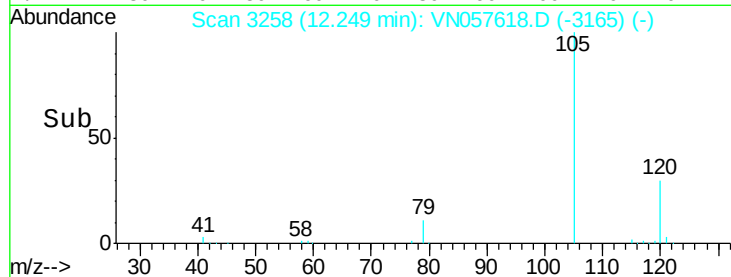
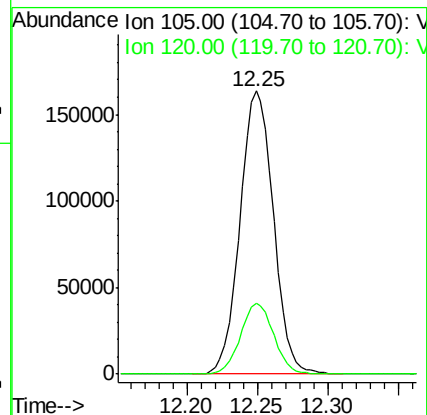
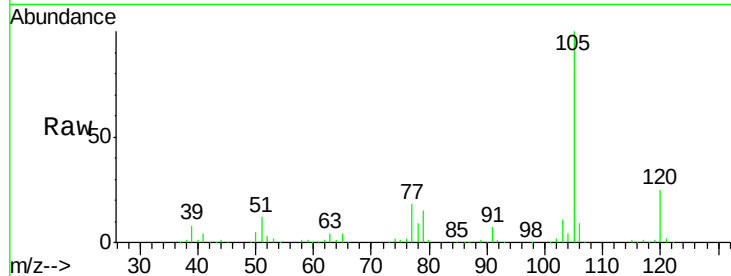
105 100

120 25.0 12.7 38.1

Manual Integrations
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#74

N-ethyl acetate

Concen: 23.048 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion: 43 Resp: 126463

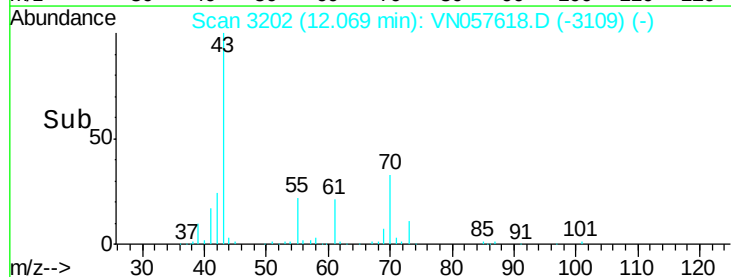
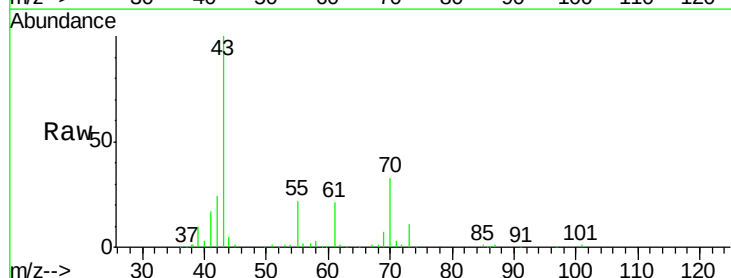
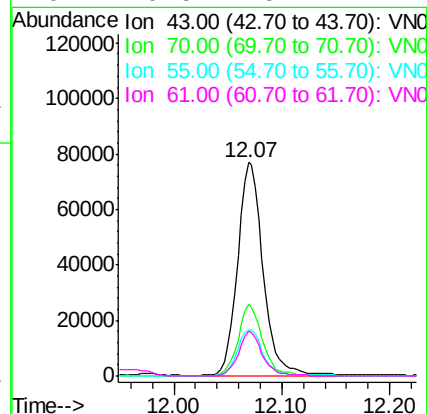
Ion Ratio Lower Upper

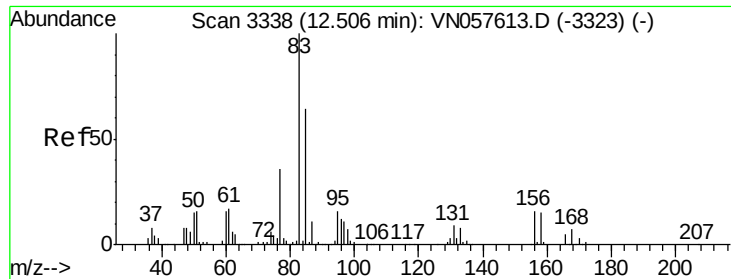
43 100

70 32.6 26.9 40.3

55 22.2 16.8 25.2

61 19.5 15.1 22.7





#75

1,1,2,2-Tetrachloroethane

Concen: 22.974 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBS01

Tot Ion: 83 Resp: 78726

Ion Ratio Lower Upper

83 100

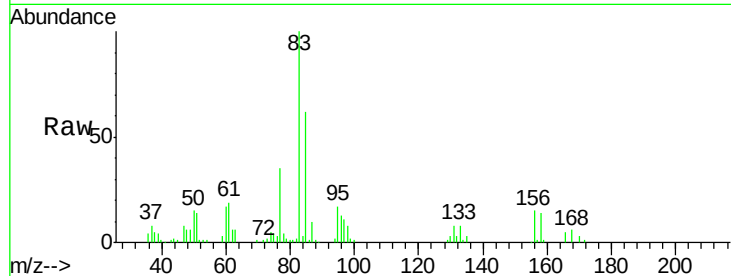
131 8.1 4.5 13.7

85 62.1 31.3 93.8

Manual Integrations
APPROVED

MMDadoda

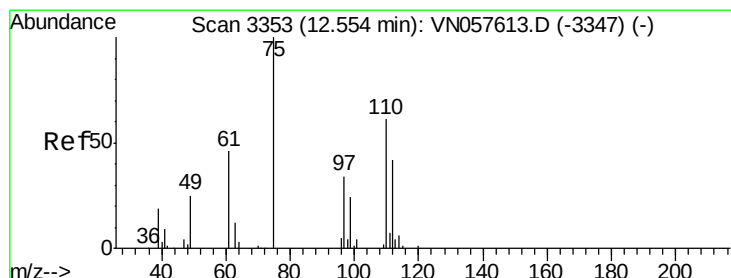
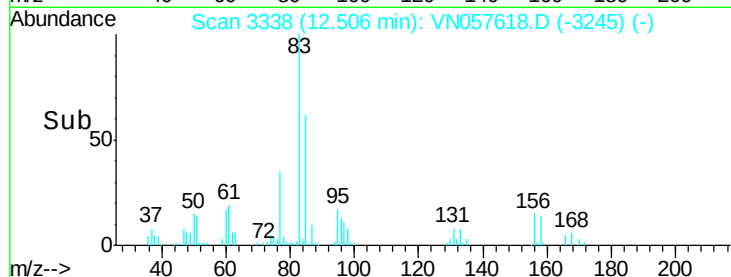
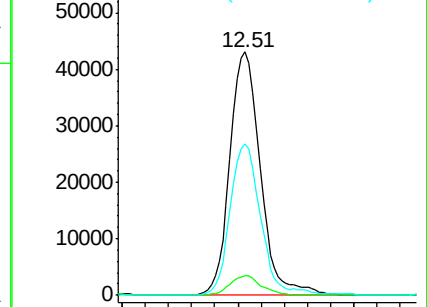
9/3/2019 11:52:15 AM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 23.452 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057618.D

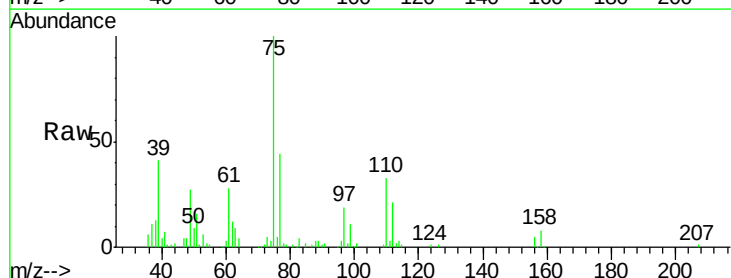
Acq: 31 Aug 2019 16:59

Tgt Ion: 75 Resp: 71039

Ion Ratio Lower Upper

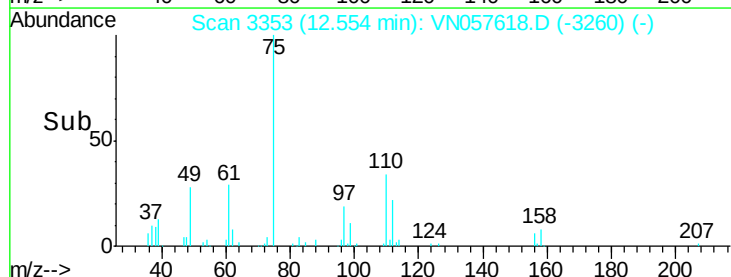
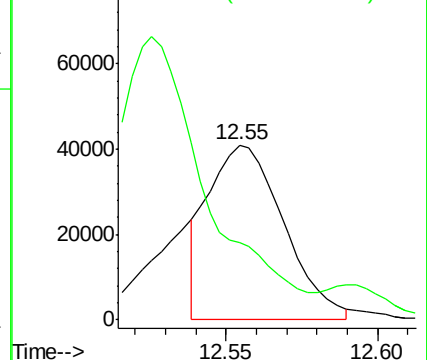
75 100

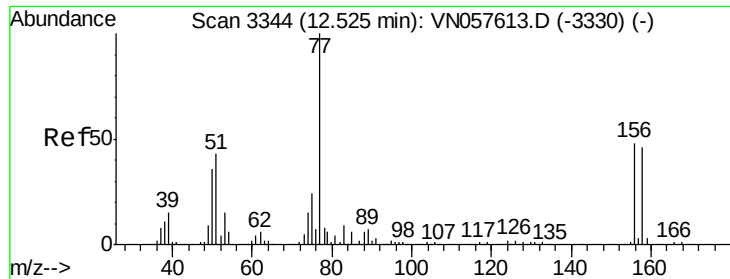
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 23.485 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

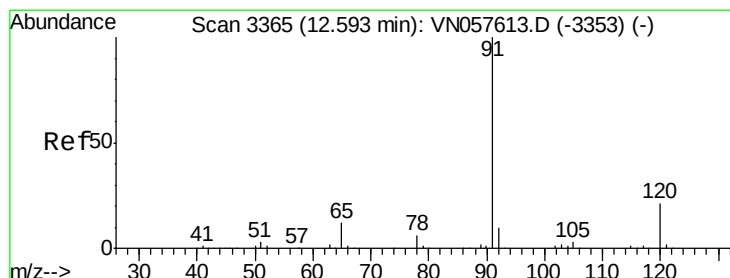
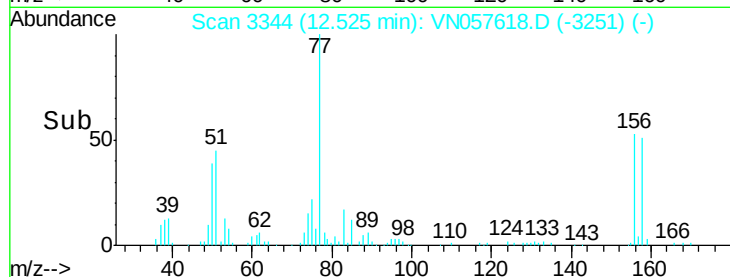
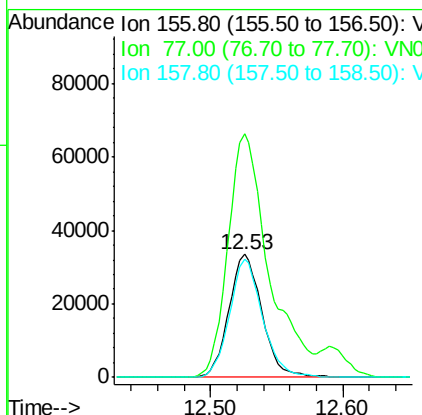
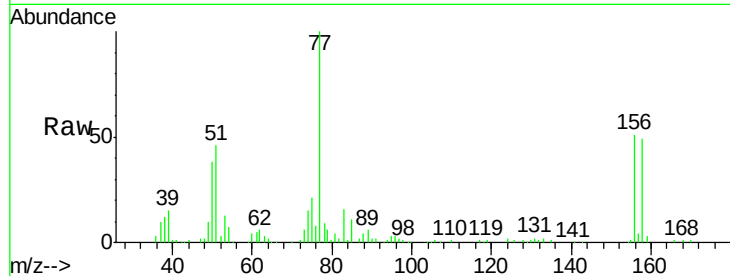
ClientSampled :

VN0901WBS01

Tot Ion:	156	Resp:	58115
Ion	Ratio	Lower	Upper
156	100		
77	245.2	123.5	370.5
158	95.8	47.8	143.3

Manual Integrations
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#78

n-propylbenzene

Concen: 21.887 ug/l

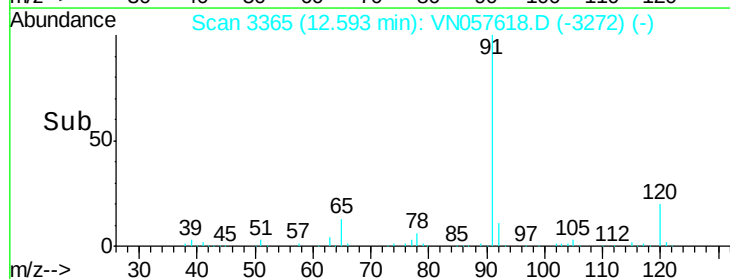
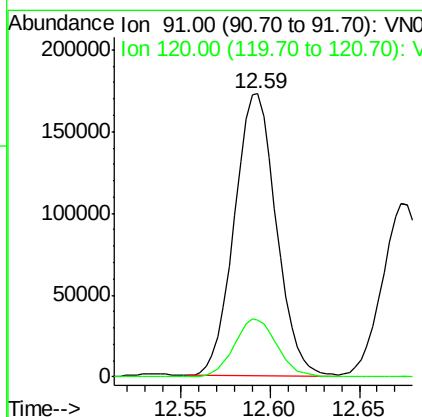
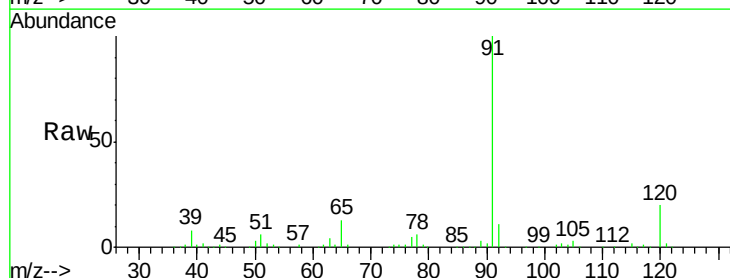
RT: 12.59 min Scan# 3365

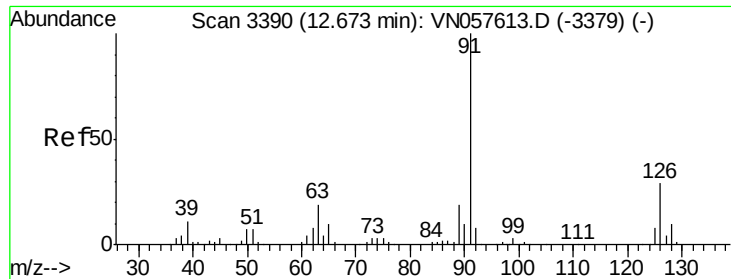
Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Tgt Ion:	91	Resp:	283239
Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.4	31.4





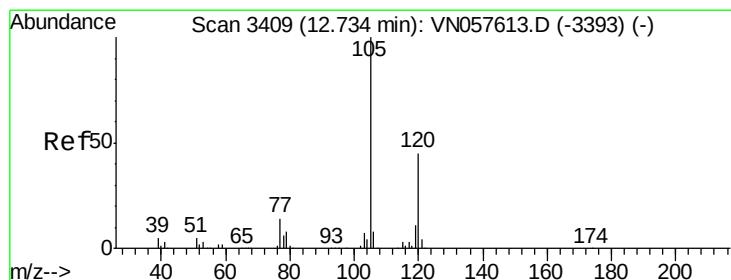
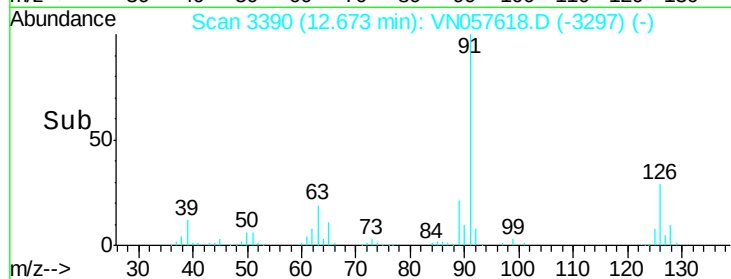
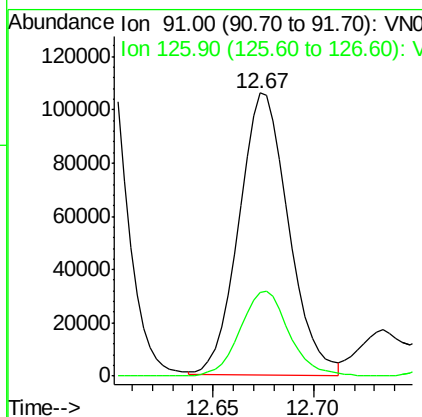
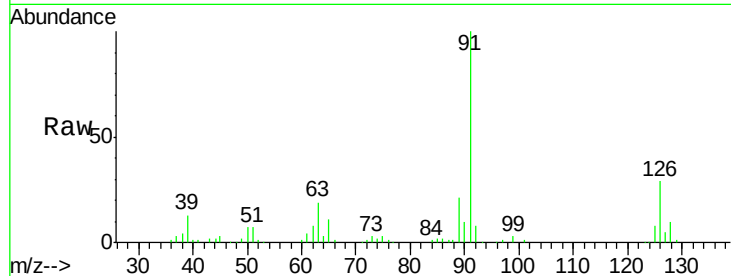
#79
 2-Chlorotoluene
 Concen: 22.592 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		182303		
126	29.9	14.9	44.5		

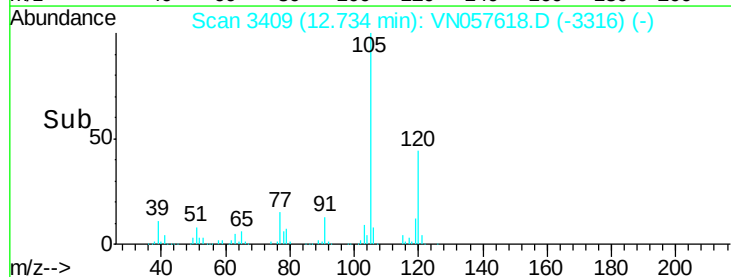
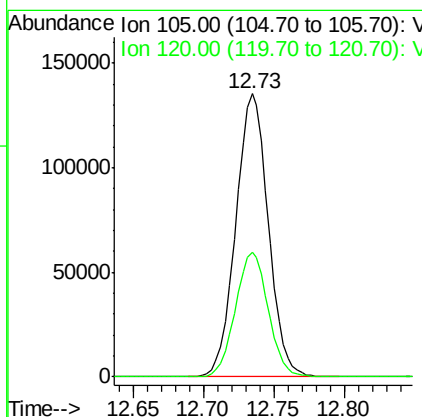
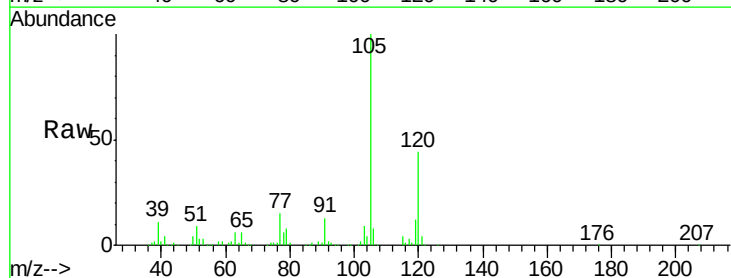
Manual Integrations
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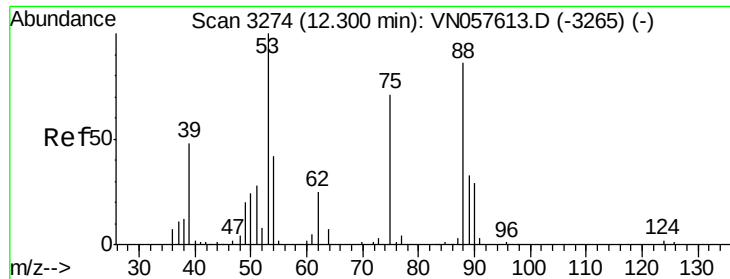
MMDadoda
 9/3/2019 11:52:15 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 22.826 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		218337		
120	44.5	22.6	67.8		





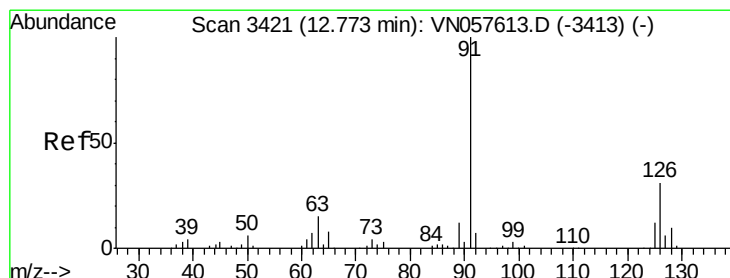
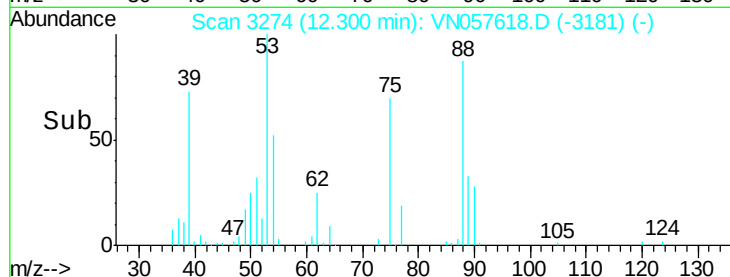
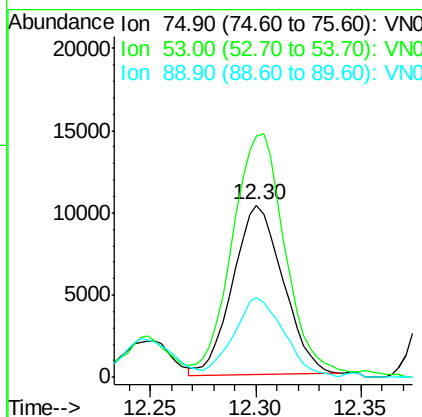
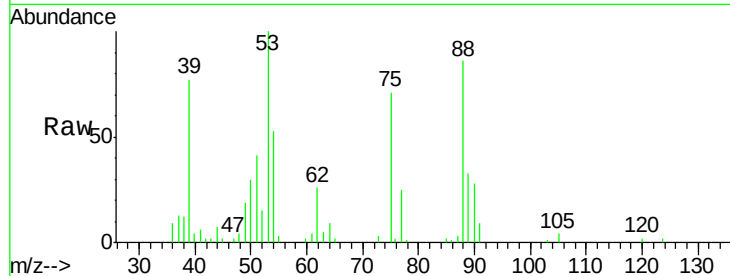
#81
trans-1,4-Dichloro-2-butene
Concen: 19.433 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	154.2	111.0	166.6
89	46.9	38.3	57.5

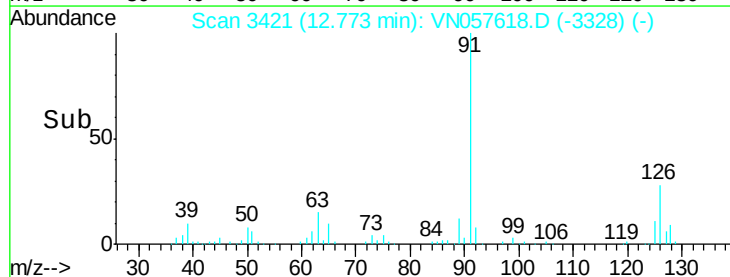
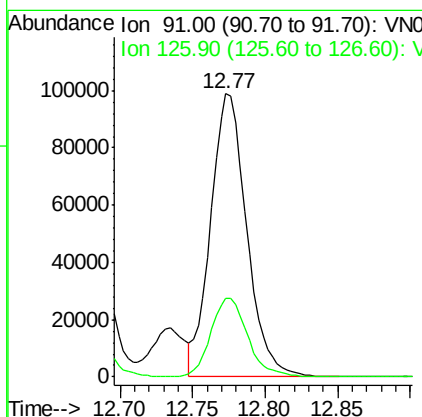
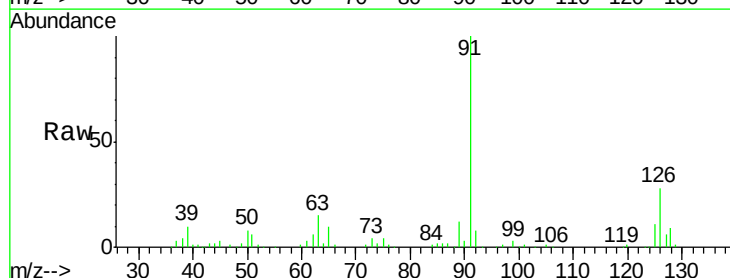
Manual Integrations
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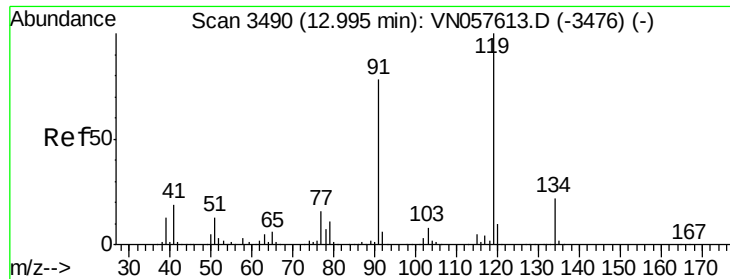
MMDadoda
9/3/2019 11:52:15 AM



#82
4-Chlorotoluene
Concen: 21.366 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.4	43.2





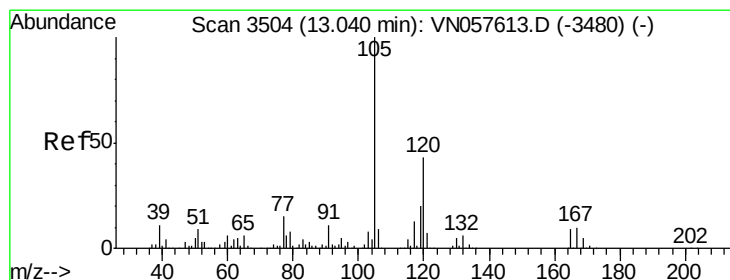
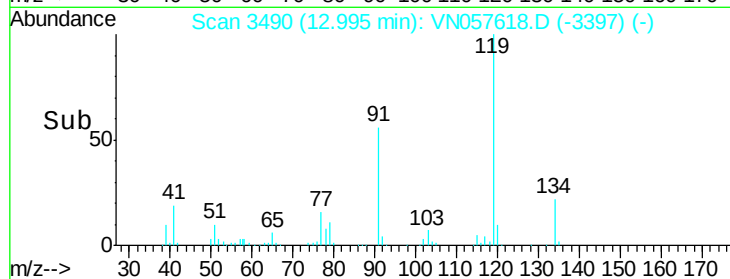
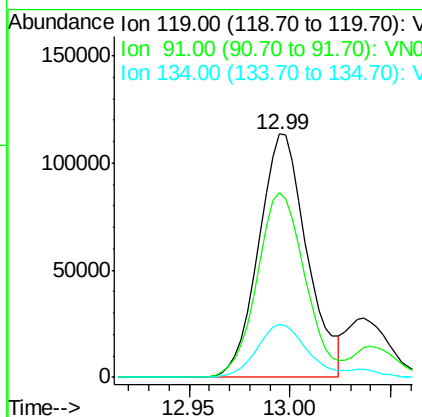
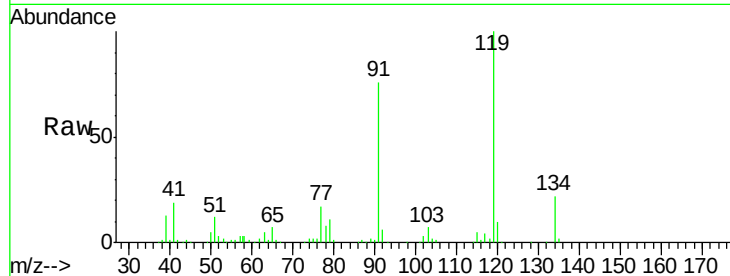
#83
 tert-Butylbenzene
 Concen: 23.321 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	75.2	38.3	114.9
134	22.5	11.3	33.8

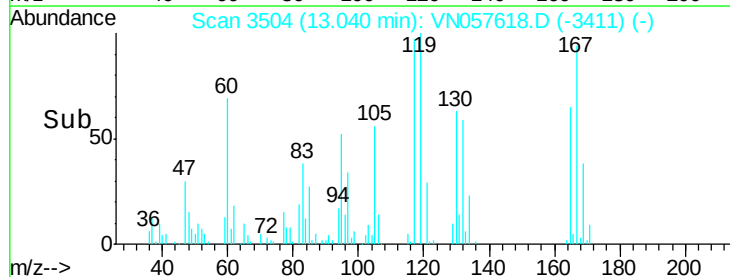
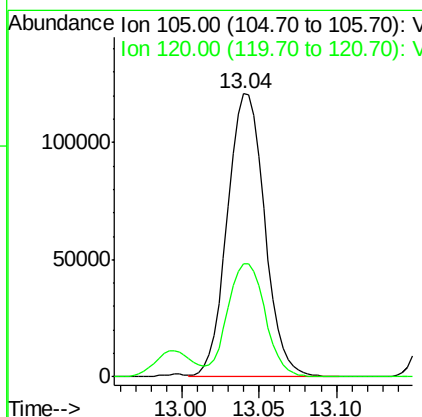
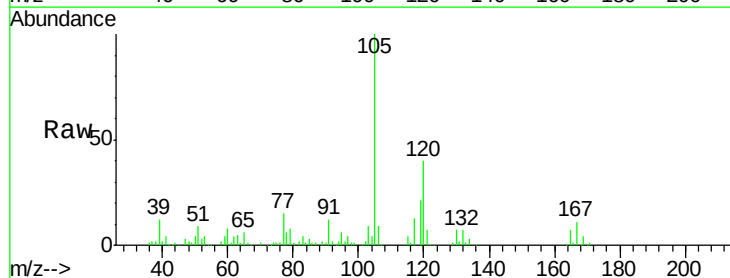
Manual Integrations
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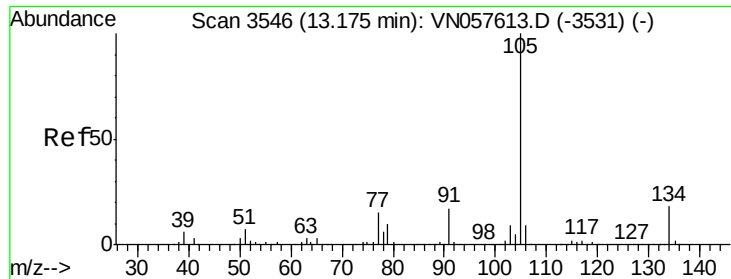
MMDadoda
 9/3/2019 11:52:15 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.849 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.5	20.8	62.5





#85

sec-Butylbenzene

Concen: 21.220 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBS01

Tot Ion:105 Resp: 231650

Ion Ratio Lower Upper

105 100

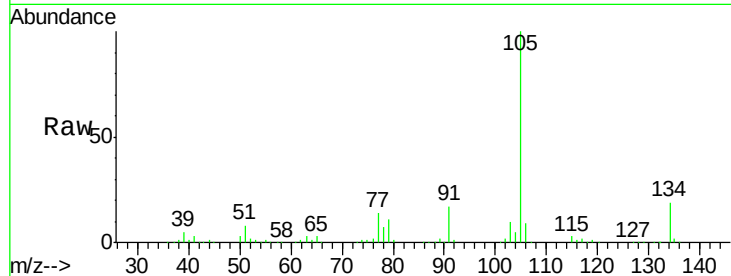
134 18.8 8.9 26.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

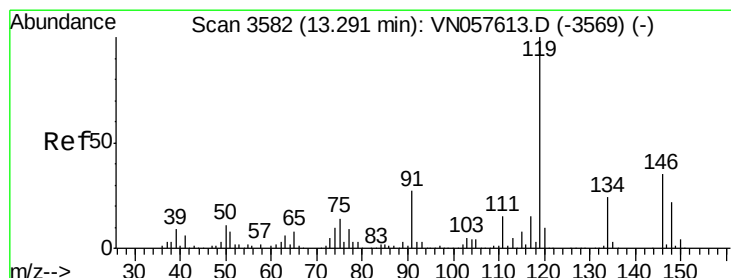
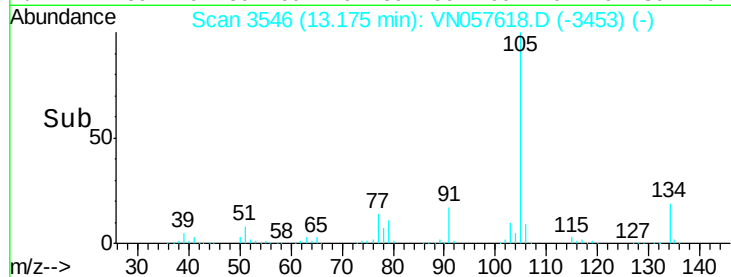
150000

100000

50000

0

Time--> 13.10 13.15 13.20 13.25



#86

p-Isopropyltoluene

Concen: 21.394 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057618.D

Acq: 31 Aug 2019 16:59

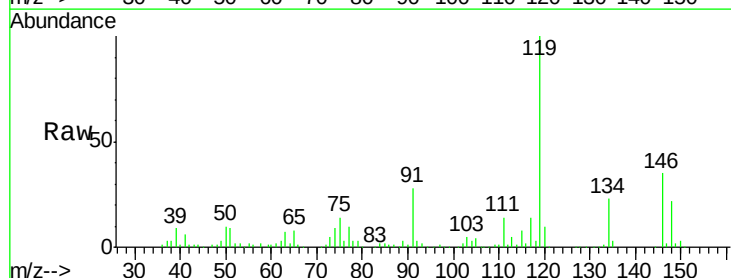
Tgt Ion:119 Resp: 193149

Ion Ratio Lower Upper

119 100

134 24.3 11.9 35.5

91 28.4 13.7 41.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

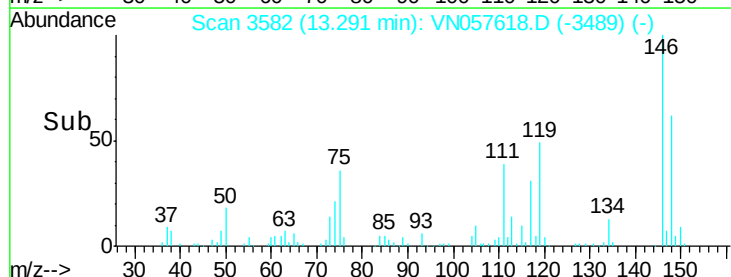
150000

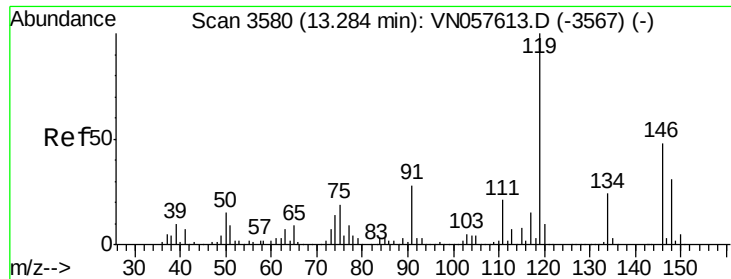
100000

50000

0

Time--> 13.20 13.25 13.30 13.35





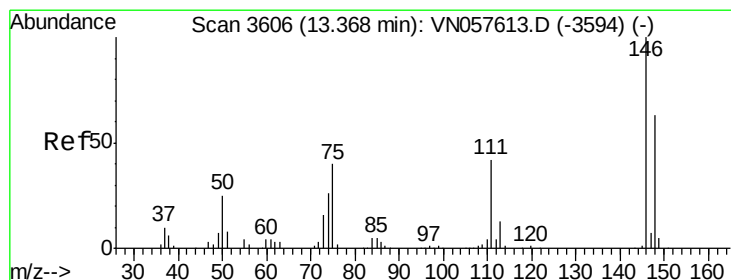
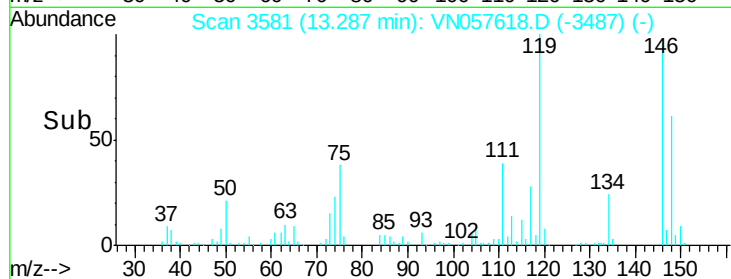
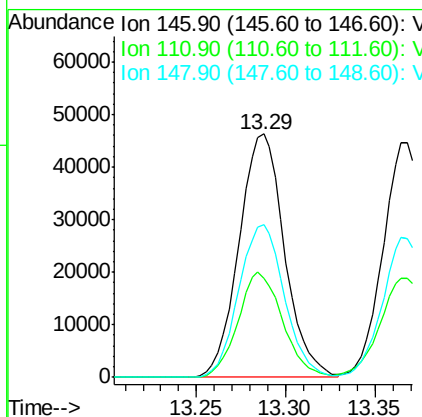
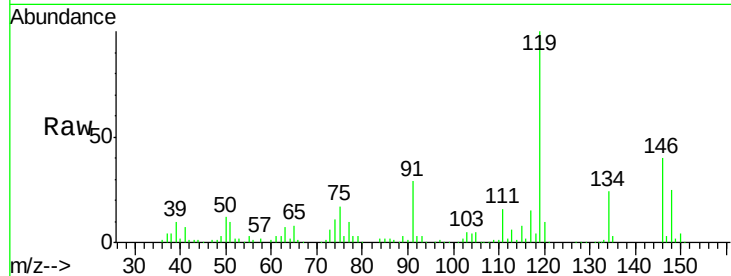
#87
 1,3-Dichlorobenzene
 Concen: 20.357 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.8	65.3
148	63.3	31.4	94.2

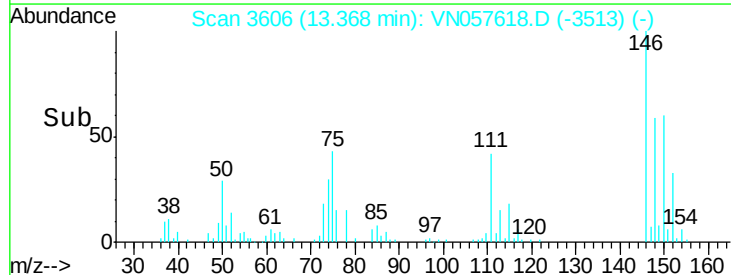
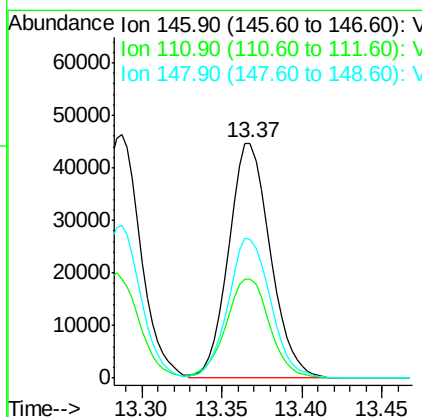
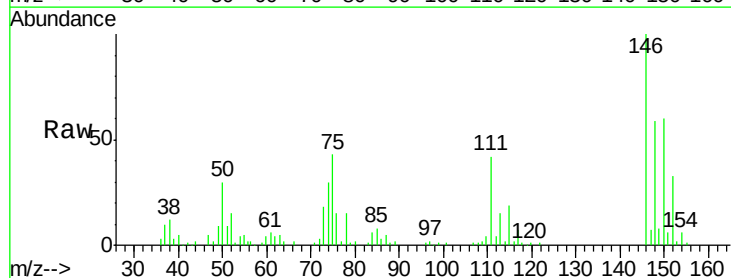
Manual Integrations
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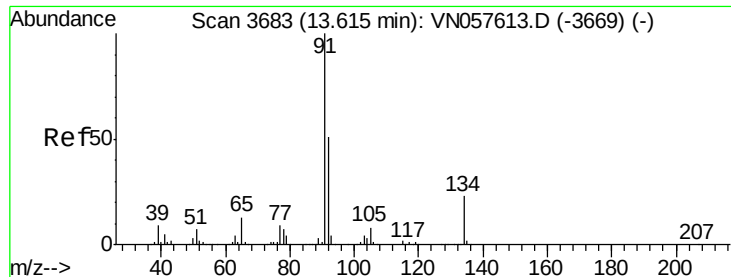
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#88
 1,4-Dichlorobenzene
 Concen: 20.456 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.6	65.0
148	60.6	32.2	96.6





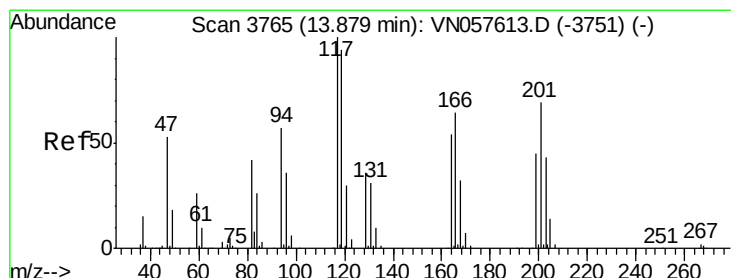
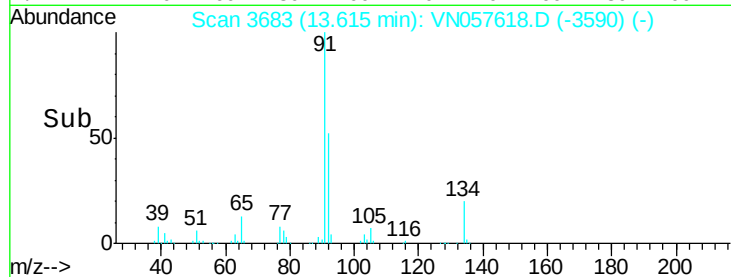
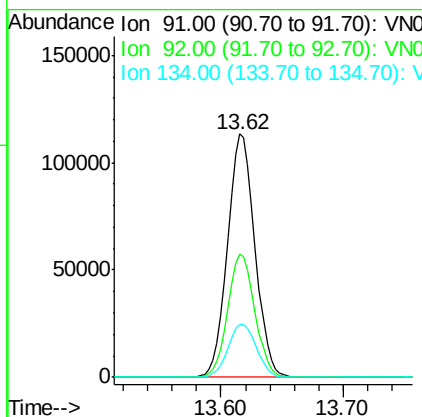
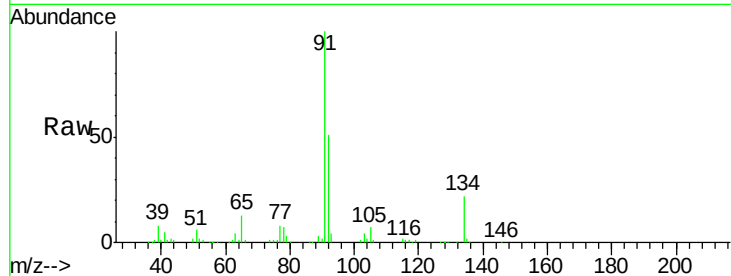
#89
n-Butylbenzene
Concen: 21.067 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.2	25.4	76.0
134	22.7	11.0	33.0

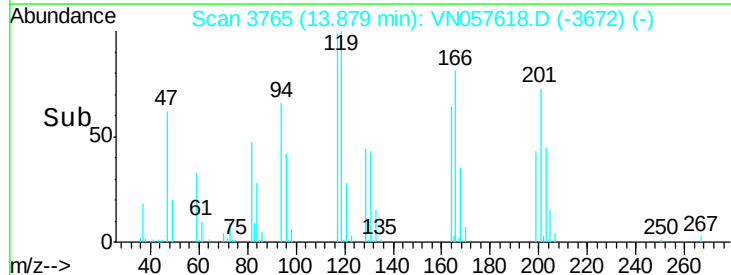
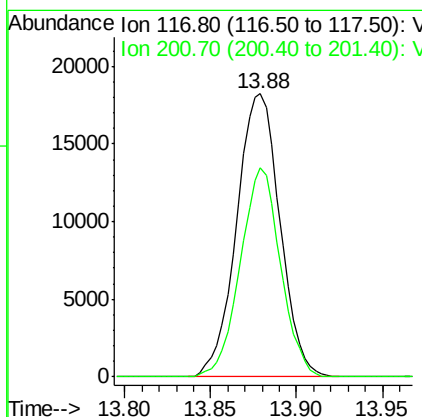
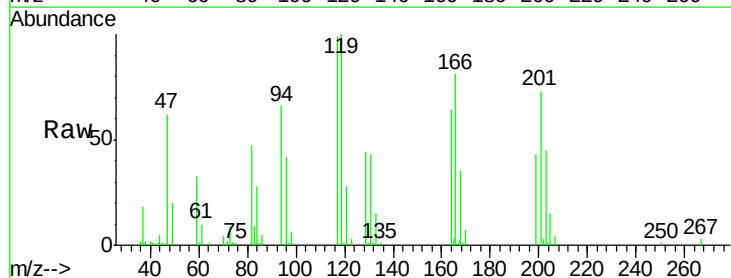
Manual Integrations
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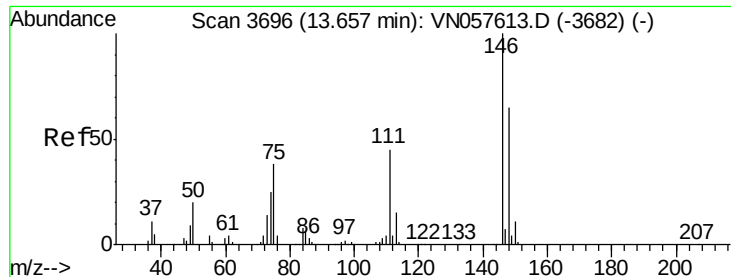
MMDadoda
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#90
Hexachloroethane
Concen: 20.387 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.4	103.2





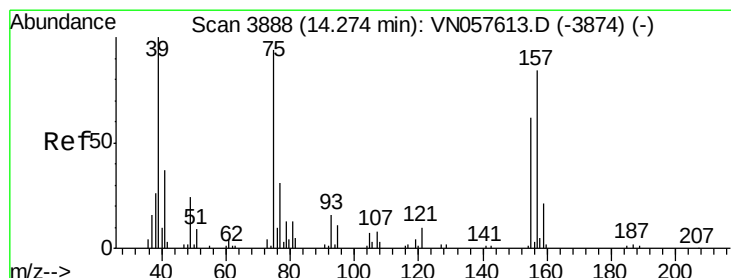
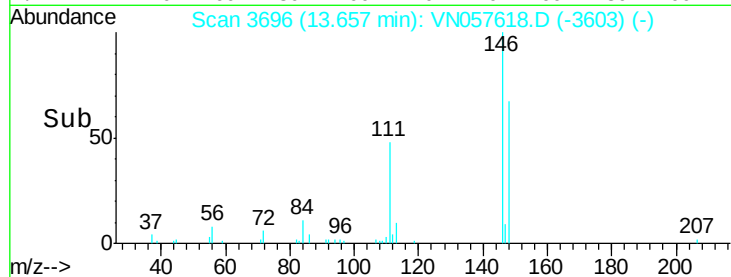
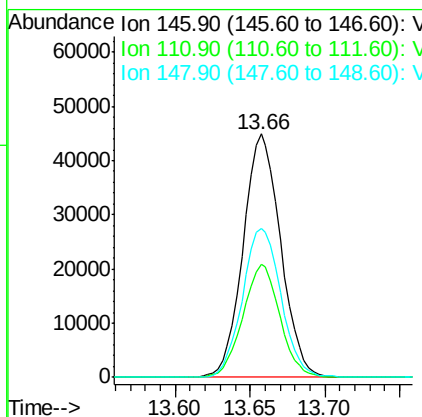
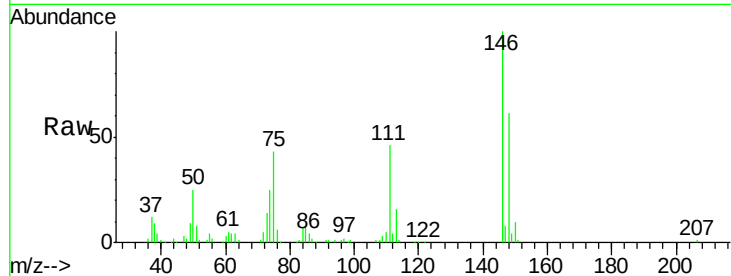
#91
 1,2-Dichlorobenzene
 Concen: 20.393 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.1	66.5
148	62.6	31.6	94.7

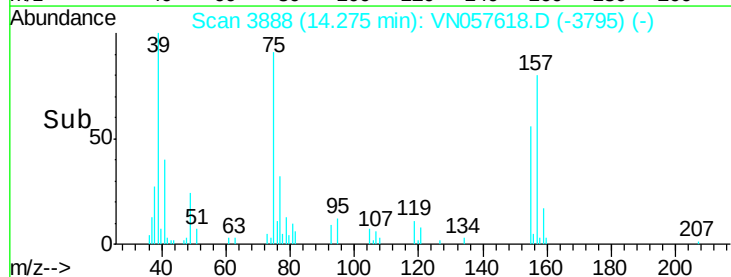
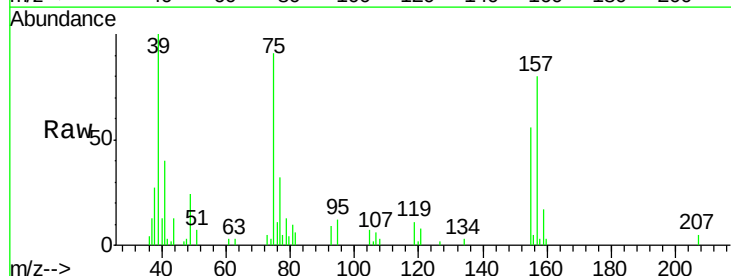
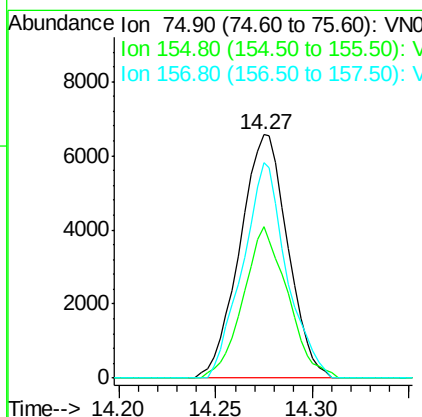
Manual Integrations
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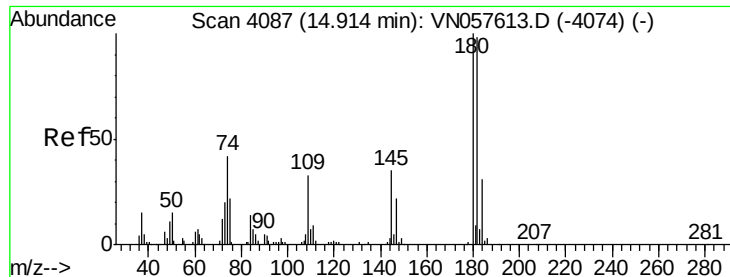
MMDadoda
 9/3/2019 11:52:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.435 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN057618.D
 Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	57.7	30.1	90.5
157	81.3	41.4	124.4





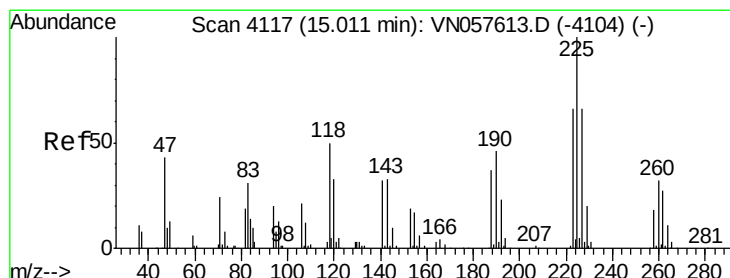
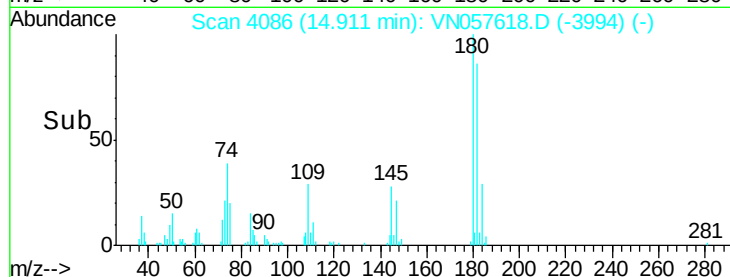
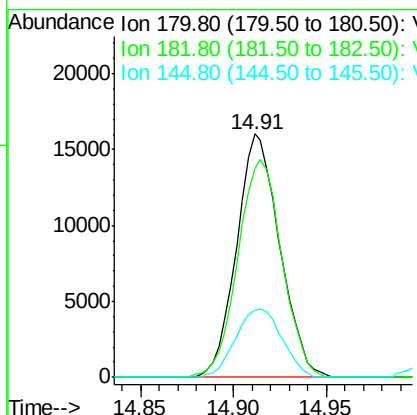
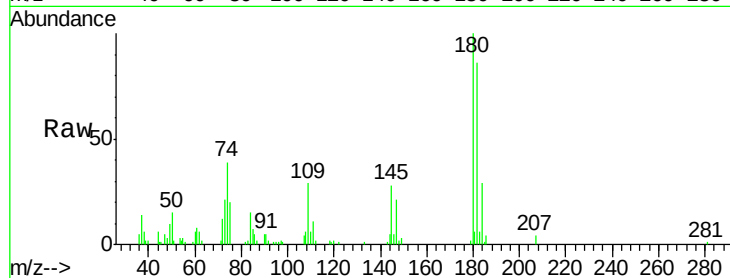
#93
1,2,4-Trichlorobenzene
Concen: 21.244 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. -0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampled :
VN0901WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	25920		
182	91.6	47.8	143.3	
145	30.3	16.9	50.7	

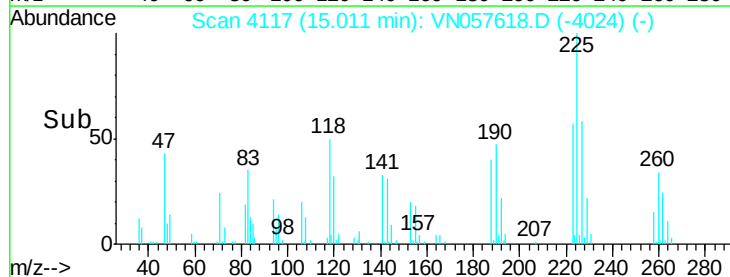
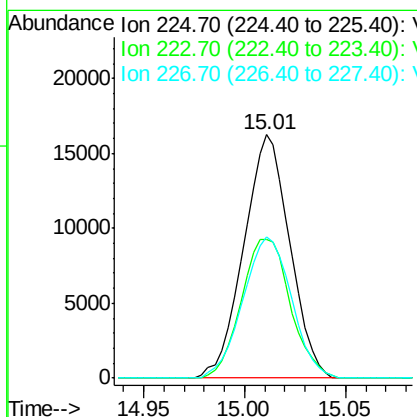
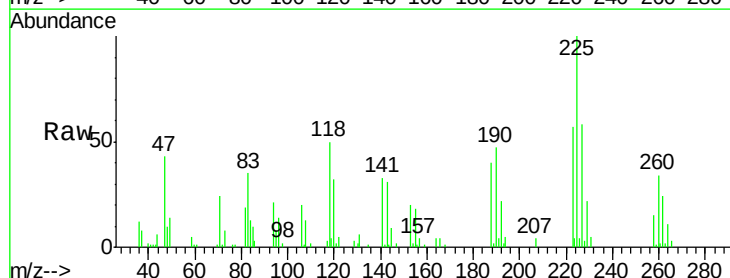
Manual Integrations
APPROVED

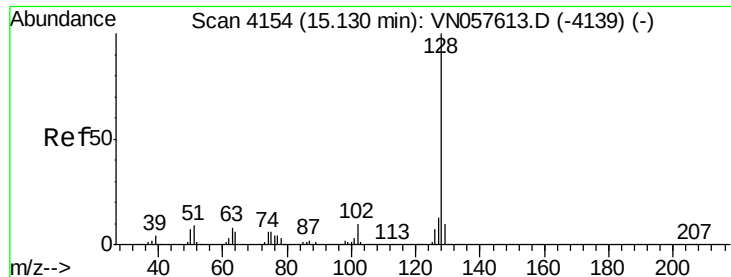
MMDadoda
9/3/2019 11:52:15 AM



#94
Hexachlorobutadiene
Concen: 19.623 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	25905		
223	61.1	32.3	96.8	
227	61.3	32.4	97.2	





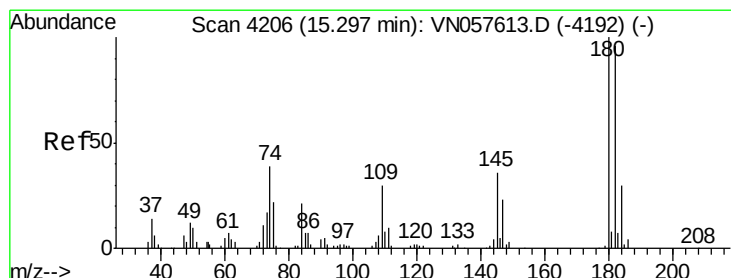
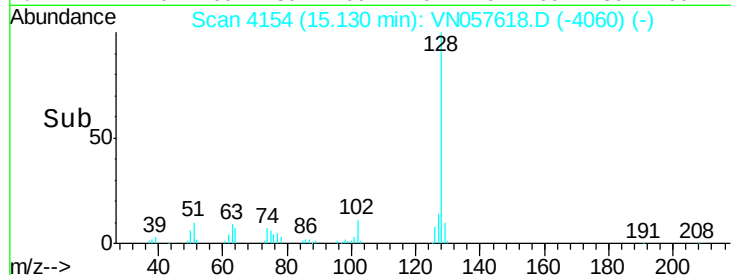
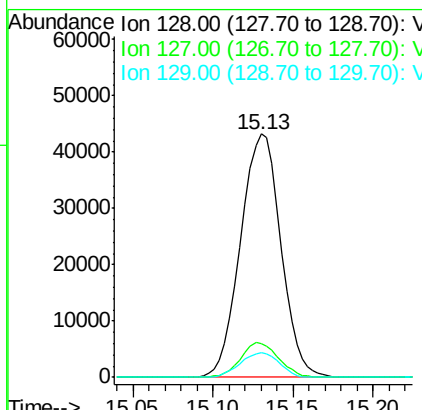
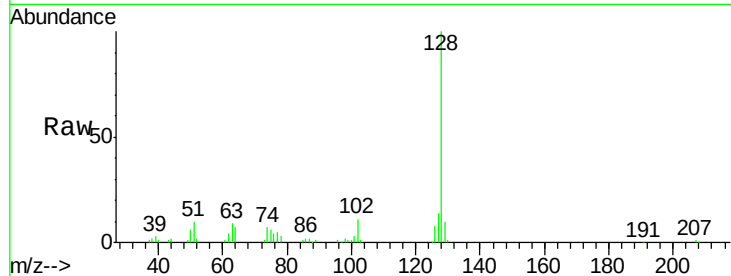
#95
Naphthalene
Concen: 19.889 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	9.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/3/2019 11:52:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.012 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057618.D
Acq: 31 Aug 2019 16:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.3	46.3	138.9
145	36.3	17.8	53.3

