

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121819\
 Data File : VN059658.D
 Acq On : 18 Dec 2019 18:38
 Operator : JC/SP
 Sample : VN1218MBSD02
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/19/2019 11:12:12 AM

Quant Time: Dec 19 06:00:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	235202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	381444	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	350335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	161895	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	173435	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
35) Dibromofluoromethane	7.57	113	120482	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	
50) Toluene-d8	10.08	98	479553	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.40	95	168960	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	57324	18.861	ug/l	99
3) Chloromethane	2.04	50	82913	17.191	ug/l	99
4) Vinyl Chloride	2.17	62	89738	19.620	ug/l	99
5) Bromomethane	2.53	94	52343	19.686	ug/l	98
6) Chloroethane	2.67	64	52570	20.451	ug/l	98
7) Trichlorofluoromethane	2.99	101	90857	18.105	ug/l	98
8) Diethyl Ether	3.38	74	32164	20.513	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	49185	19.449	ug/l	99
10) Methyl Iodide	3.92	142	62528	18.677	ug/l	99
11) Tert butyl alcohol	4.75	59	59205	94.356	ug/l	98
12) 1,1-Dichloroethene	3.71	96	45692	18.522	ug/l	91
13) Acrolein	3.58	56	30168	67.496	ug/l	97
14) Allyl chloride	4.29	41	94389	18.638	ug/l	99
15) Acrylonitrile	4.95	53	151173	99.603	ug/l	99
16) Acetone	3.79	43	145427	71.569	ug/l	99
17) Carbon Disulfide	4.02	76	145803	17.735	ug/l	100
18) Methyl Acetate	4.29	43	80731	18.960	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	170453	19.569	ug/l	98
20) Methylene Chloride	4.52	84	56335	19.196	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	51333	18.666	ug/l	96
22) Diisopropyl ether	5.92	45	192283	20.595	ug/l	97
23) Vinyl Acetate	5.86	43	798698	109.008	ug/l	99
24) 1,1-Dichloroethane	5.82	63	105380	19.925	ug/l	100
25) 2-Butanone	6.81	43	213706	87.950	ug/l	100
26) 2,2-Dichloropropane	6.79	77	91204	18.974	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	58889	19.324	ug/l	97
28) Bromochloromethane	7.17	49	40655	18.591	ug/l	97
29) Tetrahydrofuran	7.18	42	145828	98.500	ug/l	97
30) Chloroform	7.35	83	102798	19.746	ug/l	99
31) Cyclohexane	7.63	56	96881	19.387	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	90065	19.190	ug/l	98
36) 1,1-Dichloropropene	7.77	75	77600	19.508	ug/l	99
37) Ethyl Acetate	6.90	43	91208	19.728	ug/l	100
38) Carbon Tetrachloride	7.75	117	79039	19.148	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	85068	18.853	ug/l	99
40) Benzene	8.02	78	229782	19.766	ug/l	99
41) Methacrylonitrile	7.14	41	34113m	17.878	ug/l	
42) 1,2-Dichloroethane	8.10	62	90011	20.218	ug/l	100
43) Isopropyl Acetate	8.14	43	140276	19.515	ug/l	99
44) Trichloroethene	8.82	130	57109	18.755	ug/l	100
45) 1,2-Dichloropropane	9.10	63	62848	20.020	ug/l	99
46) Dibromomethane	9.19	93	39427	19.171	ug/l	99
47) Bromodichloromethane	9.39	83	80542	19.642	ug/l	97
48) Methyl methacrylate	9.18	41	62388	19.130	ug/l	97
49) 1,4-Dioxane	9.18	88	18012	385.403	ug/l	94
51) 4-Methyl-2-Pentanone	9.97	43	437415	102.063	ug/l	100
52) Toluene	10.14	92	138399	19.376	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	91725	19.342	ug/l	99
54) cis-1,3-Dichloropropene	9.82	75	97640	19.587	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	55271	19.720	ug/l	98
56) Ethyl methacrylate	10.42	69	79355	19.071	ug/l	99
57) 1,3-Dichloropropane	10.70	76	97596	19.998	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	148798	112.440	ug/l	98
59) 2-Hexanone	10.74	43	321734	95.252	ug/l	98
60) Dibromochloromethane	10.90	129	59326	19.393	ug/l	99
61) 1,2-Dibromoethane	11.00	107	56585	19.036	ug/l	98
64) Tetrachloroethene	10.62	164	56251	17.224	ug/l	99
65) Chlorobenzene	11.43	112	145224	19.158	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.50	131	54818	19.039	ug/l	98
67) Ethyl Benzene	11.51	91	262760	19.203	ug/l	98
68) m/p-Xylenes	11.62	106	193759	38.348	ug/l	99
69) o-Xylene	11.94	106	91739	19.082	ug/l	99
70) Styrene	11.96	104	144335	18.686	ug/l	98
71) Bromoform	12.12	173	41368	19.113	ug/l #	98
73) Isopropylbenzene	12.25	105	250032	19.674	ug/l	99
74) N-amyl acetate	12.07	43	111453	19.118	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	80075	19.863	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	81937m	20.444	ug/l	
77) Bromobenzene	12.52	156	59024	18.885	ug/l	98
78) n-propylbenzene	12.59	91	295413	19.664	ug/l	98
79) 2-Chlorotoluene	12.67	91	176314	19.409	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	210410	19.564	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.29	75	29658	18.277	ug/l	96
82) 4-Chlorotoluene	12.77	91	181875	19.554	ug/l	99
83) tert-Butylbenzene	12.99	119	175732	19.294	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	207841	19.435	ug/l	100
85) sec-Butylbenzene	13.17	105	237090	19.569	ug/l	100
86) p-Isopropyltoluene	13.29	119	210351	19.170	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	108102	18.810	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	106901	18.449	ug/l	100
89) n-Butylbenzene	13.61	91	184812	17.965	ug/l	100
90) Hexachloroethane	13.87	117	40870	19.705	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	105774	18.662	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	19451	18.331	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	60694	16.583	ug/l	98
94) Hexachlorobutadiene	15.00	225	32772	17.567	ug/l	99
95) Naphthalene	15.12	128	178422	16.330	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	61722	16.674	ug/l	100

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

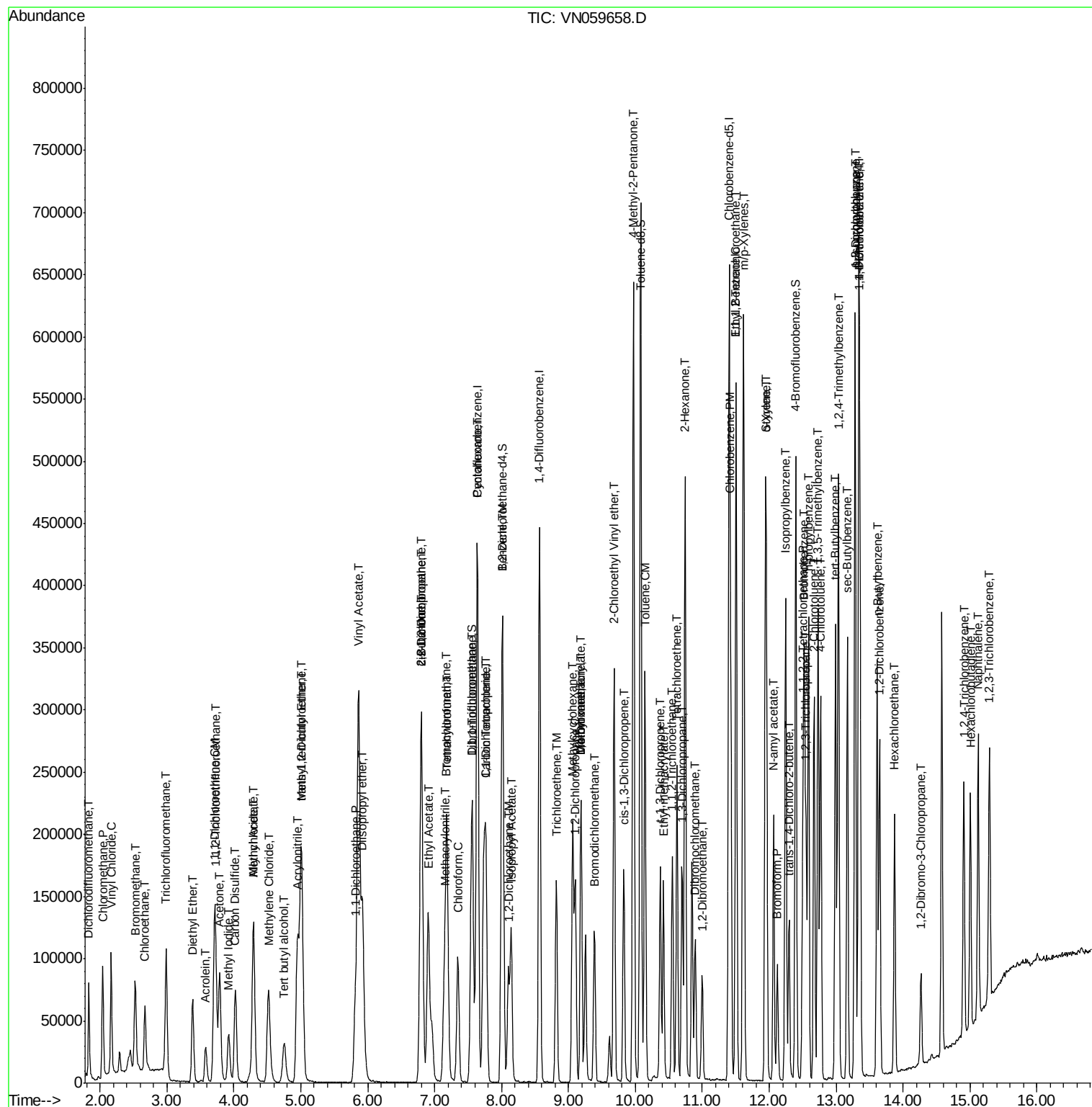
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Data File : VN059658.D
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Sample : VN1218MBSD02
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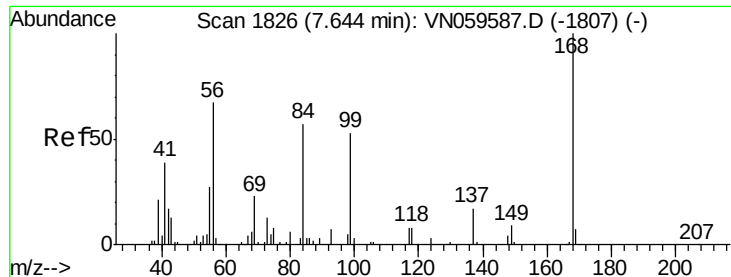
Instrument :
MSVOA_N
Client Sampled :
VN1218MBSD02

Manual Integrations
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Quant Title : SW846 8260
QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion:168 Resp: 235202

Ion Ratio Lower Upper

168 100

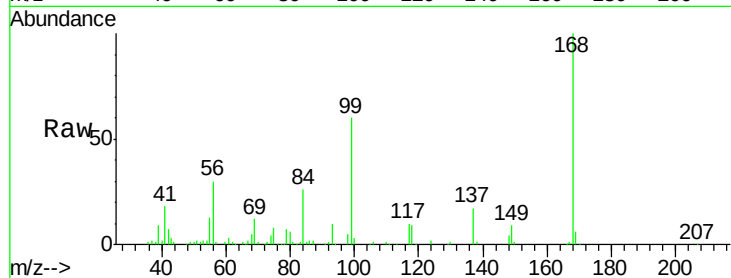
99 60.0 48.2 72.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

100000

80000

60000

40000

20000

0

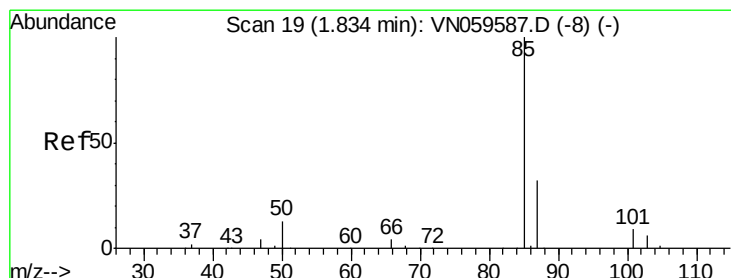
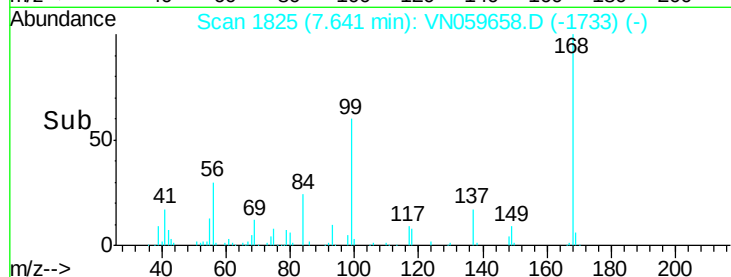
Time-->

7.50

7.60

7.70

7.80



#2

Dichlorodifluoromethane

Concen: 18.861 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN059658.D

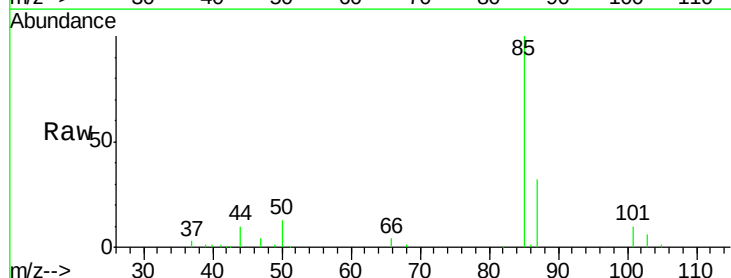
Acq: 18 Dec 2019 18:38

Tgt Ion: 85 Resp: 57324

Ion Ratio Lower Upper

85 100

87 32.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.83

50000

40000

30000

20000

10000

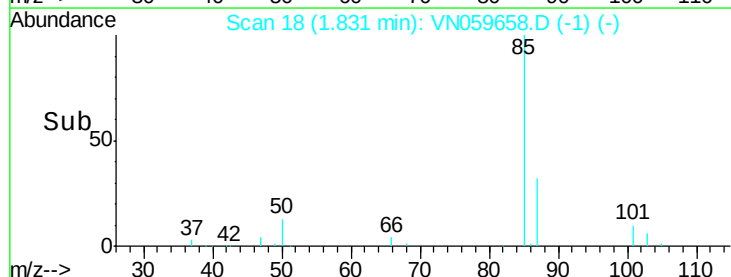
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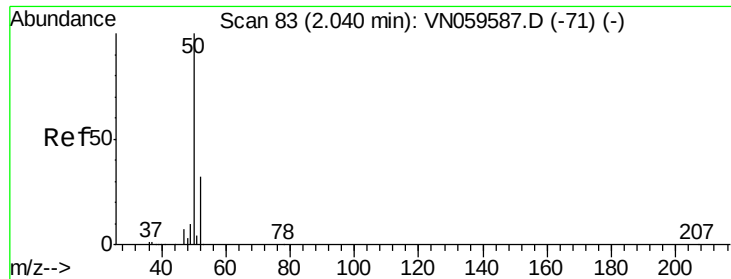
Time-->

1.80

1.85

1.90





#3

Chloromethane

Concen: 17.191 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBS02

Tot Ion: 50 Resp: 82913

Ion Ratio Lower Upper

50 100

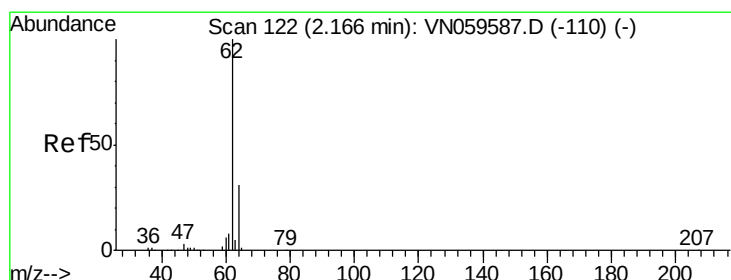
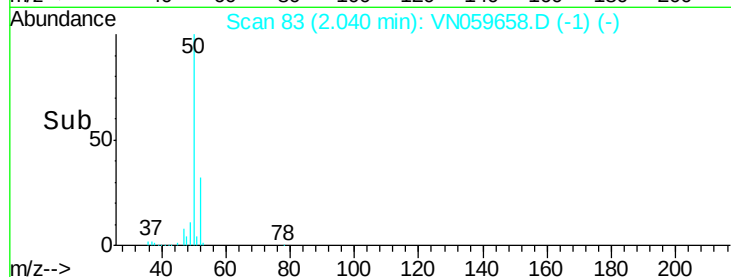
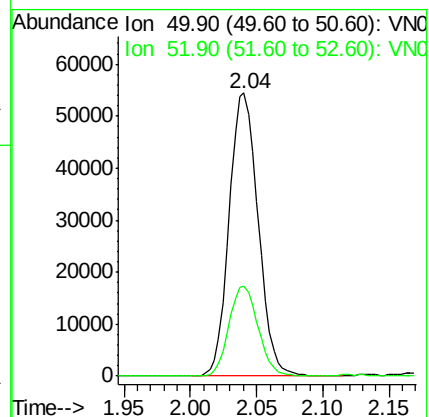
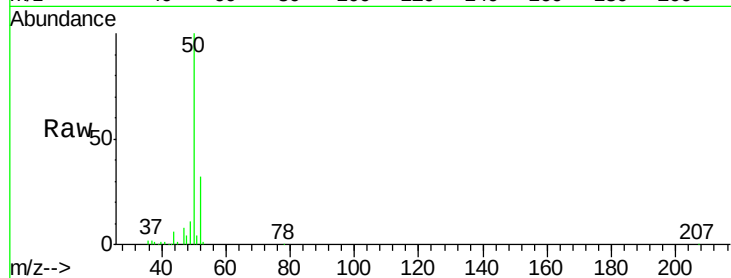
52 31.9 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.620 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN059658.D

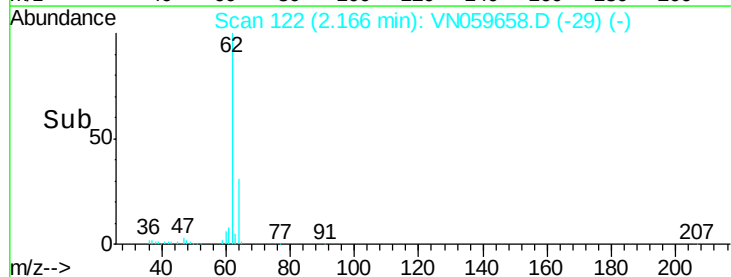
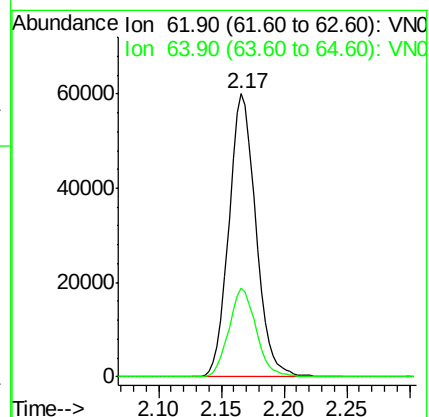
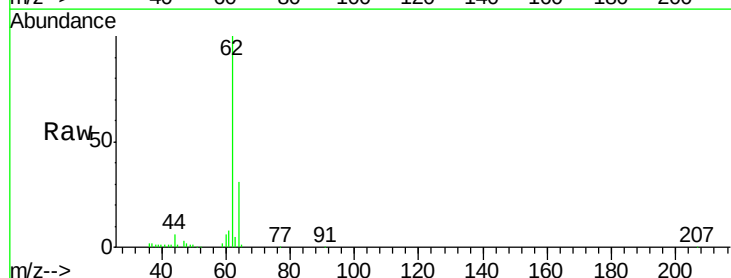
Acq: 18 Dec 2019 18:38

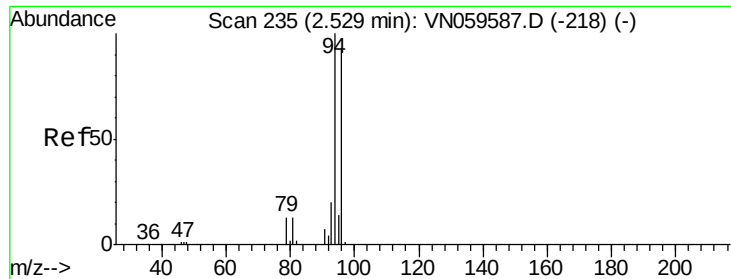
Tgt Ion: 62 Resp: 89738

Ion Ratio Lower Upper

62 100

64 31.2 24.6 37.0





#5

Bromomethane

Concen: 19.686 ug/l

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion: 94 Resp: 52343

Ion Ratio Lower Upper

94 100

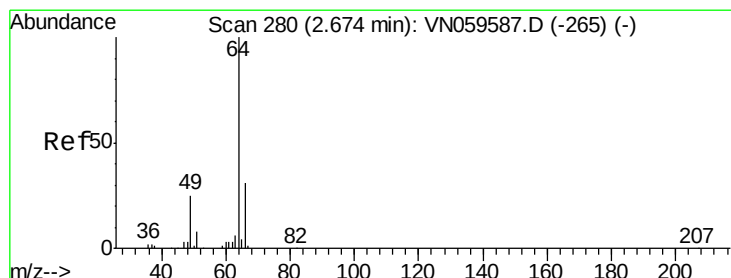
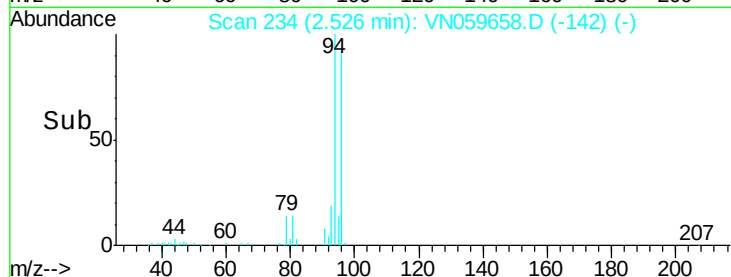
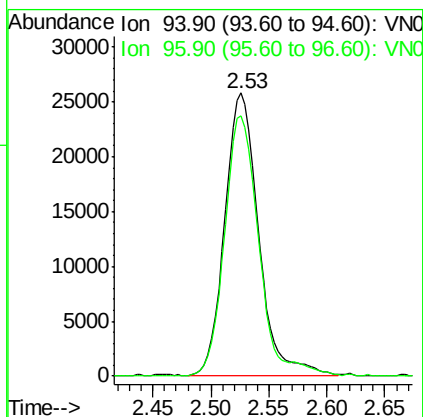
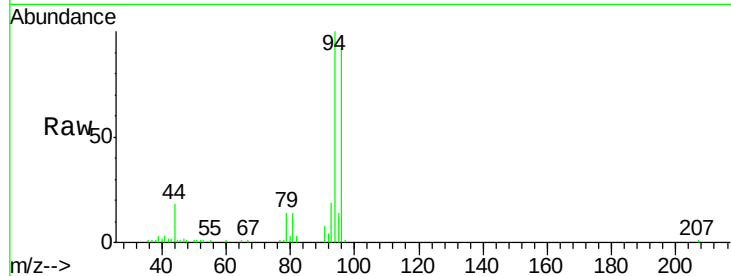
96 91.8 74.7 112.1

Manual Integrations

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#6

Chloroethane

Concen: 20.451 ug/l

RT: 2.67 min Scan# 279

Delta R.T. -0.00 min

Lab File: VN059658.D

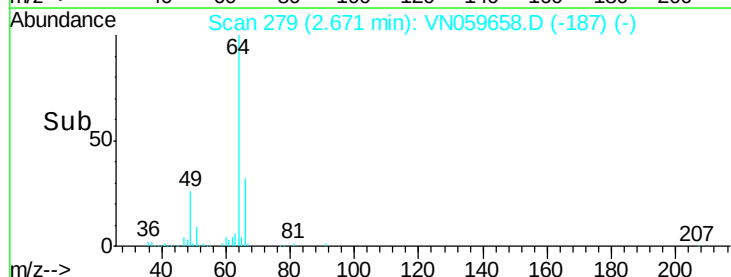
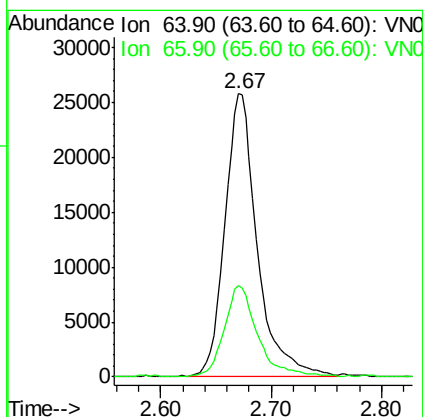
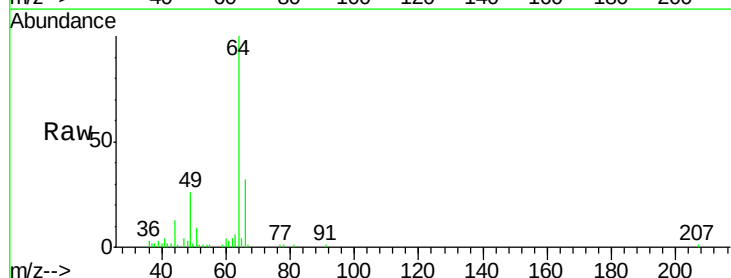
Acq: 18 Dec 2019 18:38

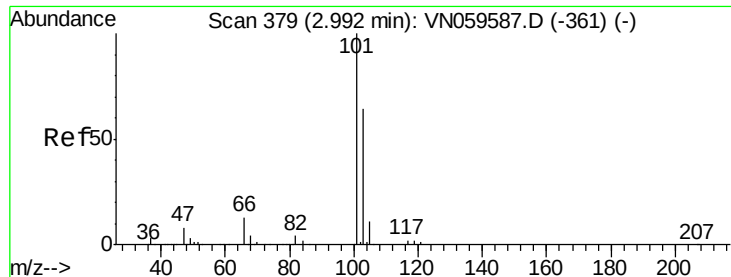
Tgt Ion: 64 Resp: 52570

Ion Ratio Lower Upper

64 100

66 32.4 25.1 37.7





#7

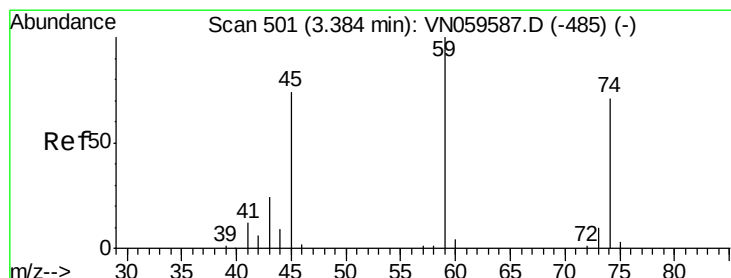
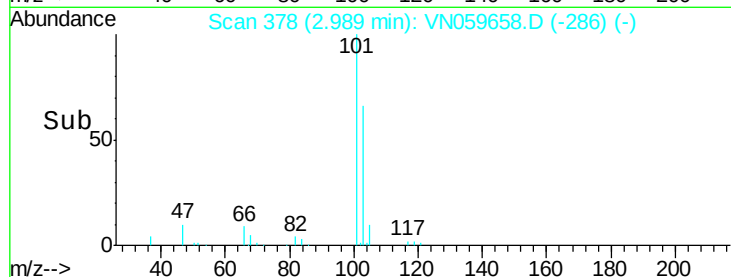
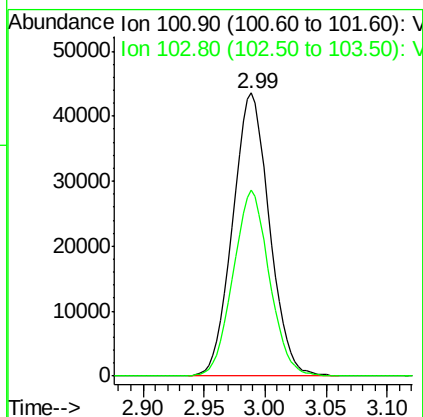
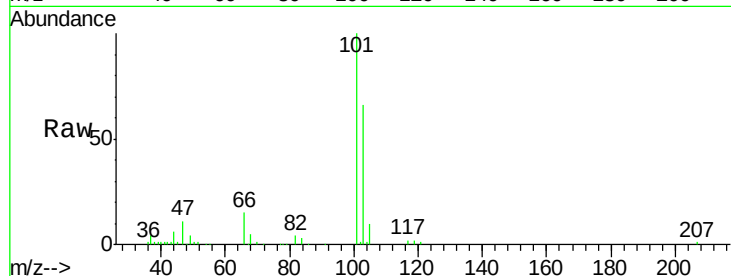
Trichlorofluoromethane
Concen: 18.105 ug/l
RT: 2.99 min Scan# 378
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

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VN1218MBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.0	76.6

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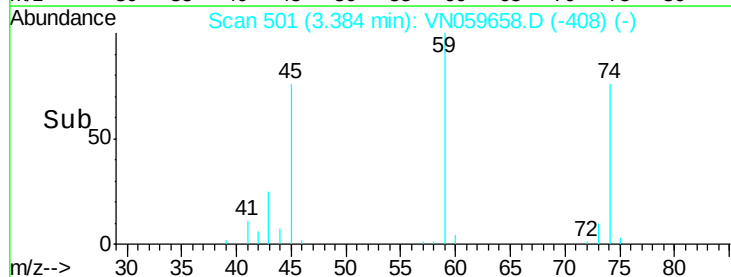
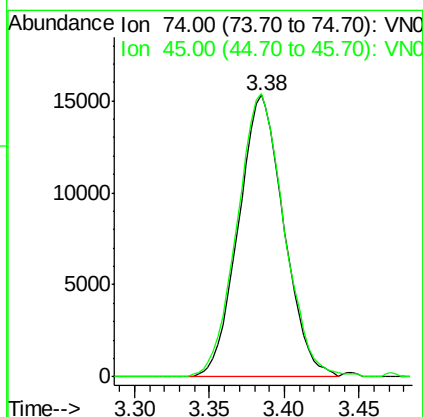
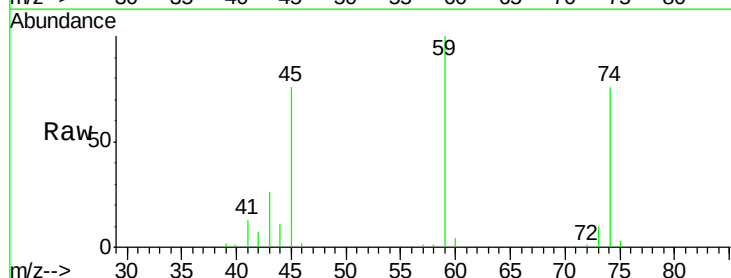
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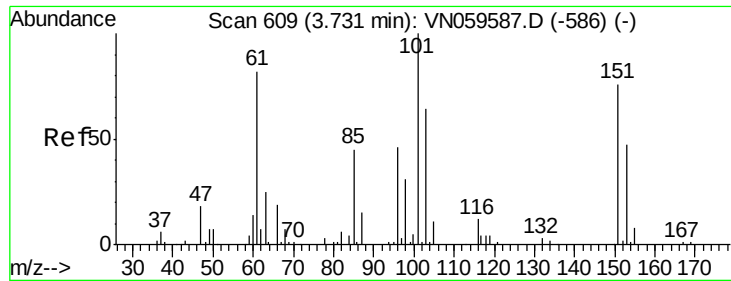


#8

Diethyl Ether
Concen: 20.513 ug/l
RT: 3.38 min Scan# 501
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.7	51.9	155.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.449 ug/l

RT: 3.73 min Scan# 609

Delta R.T. 0.00 min

Lab File: VN059658.D

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MSVOA_N

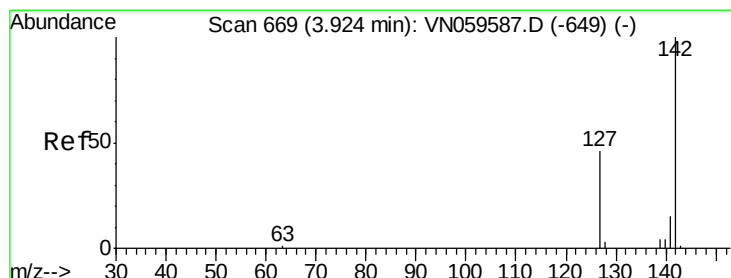
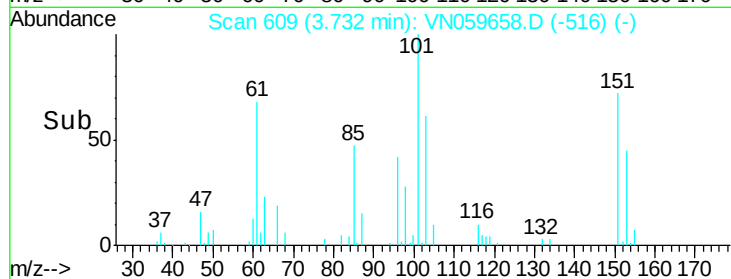
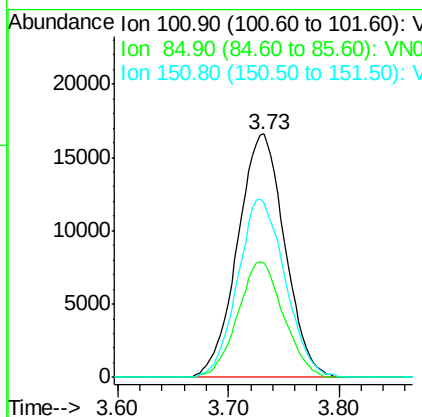
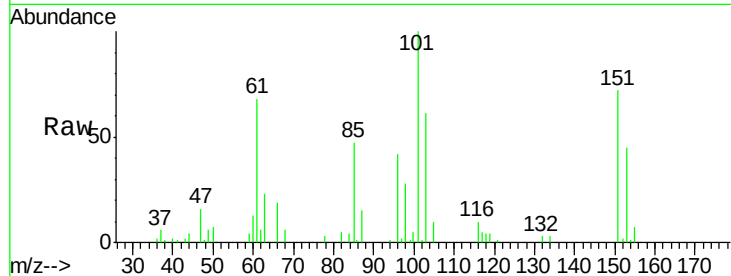
ClientSampleId :

VN1218MBSD02

Tot Ion:	101	Resp:	49185
Ion Ratio	Lower	Upper	
101	100		
85	45.9	36.6	54.8
151	73.4	59.7	89.5

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#10

Methyl Iodide

Concen: 18.677 ug/l

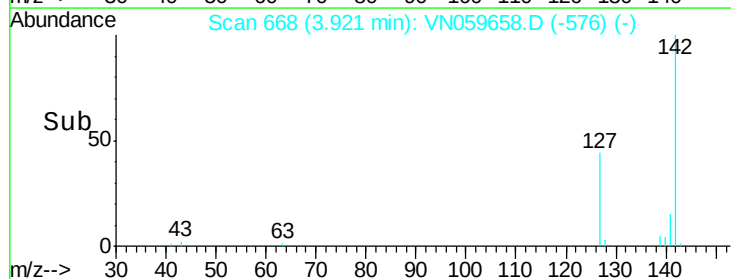
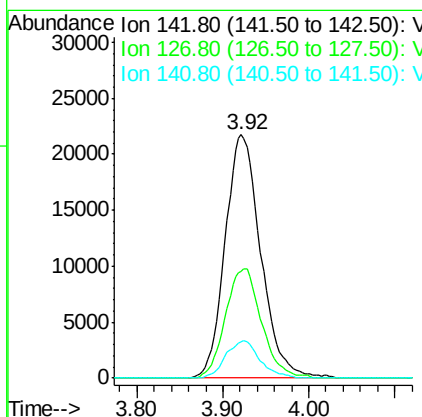
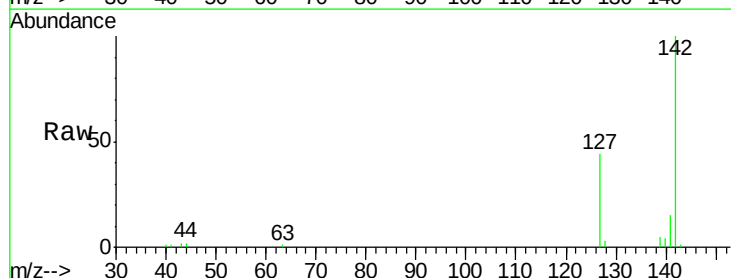
RT: 3.92 min Scan# 668

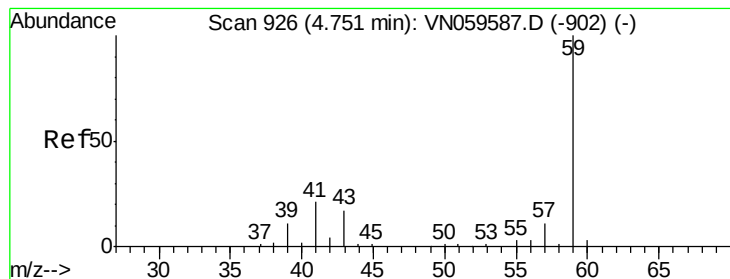
Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	142	Resp:	62528
Ion Ratio	Lower	Upper	
142	100		
127	45.5	36.7	55.1
141	14.8	11.7	17.5





#11

Tert butyl alcohol

Concen: 94.356 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion: 59 Resp: 59205

Ion Ratio Lower Upper

59 100

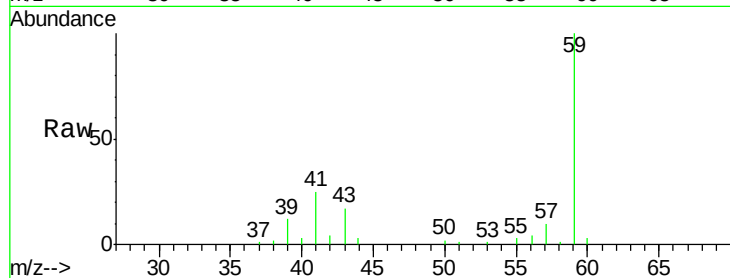
57 10.0 8.6 12.8

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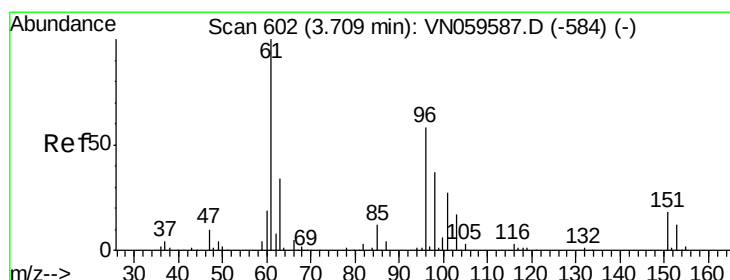
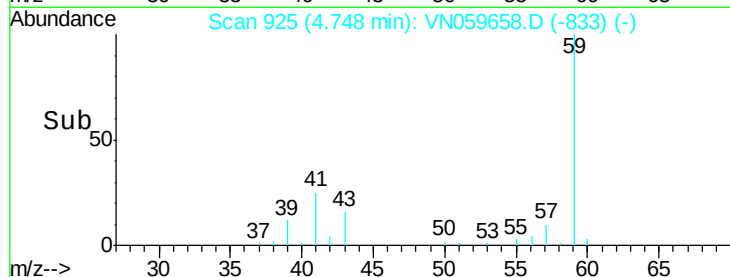
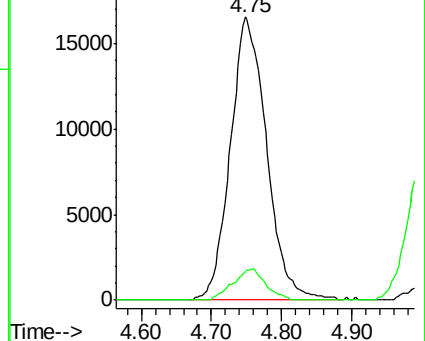
MMDadoda

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Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#12

1,1-Dichloroethene

Concen: 18.522 ug/l

RT: 3.71 min Scan# 602

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

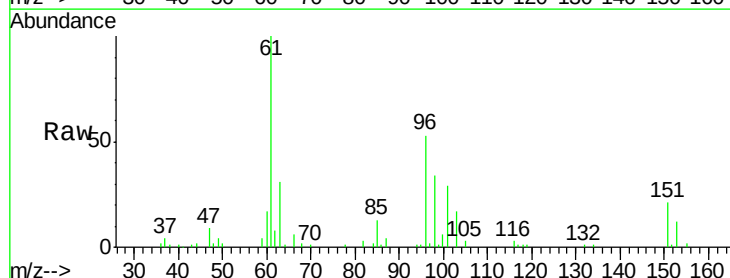
Tgt Ion: 96 Resp: 45692

Ion Ratio Lower Upper

96 100

61 187.3 137.5 206.3

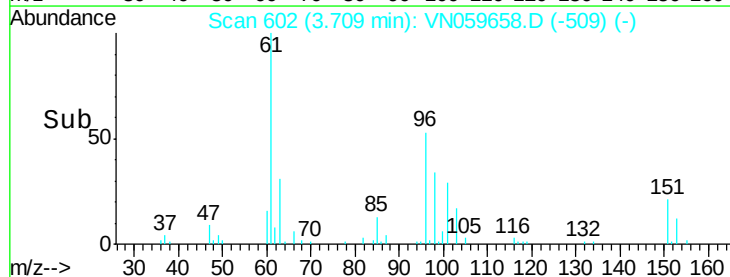
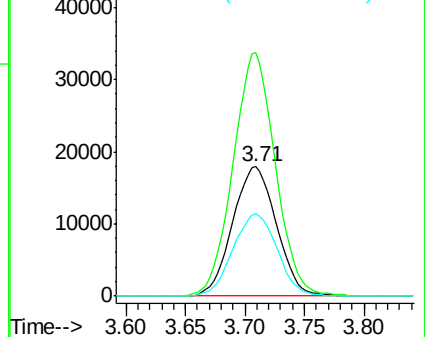
98 63.8 50.2 75.4

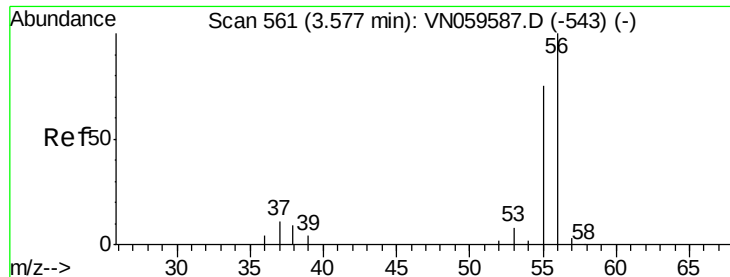


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 67.496 ug/l

RT: 3.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBS02

Tot Ion: 56 Resp: 30168

Ion Ratio Lower Upper

56 100

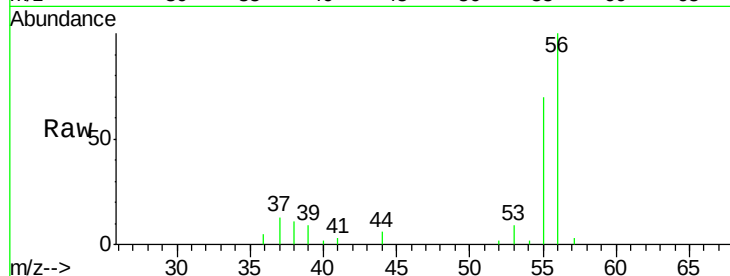
55 70.9 58.6 88.0

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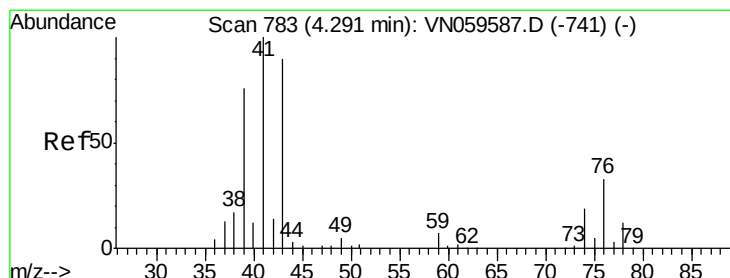
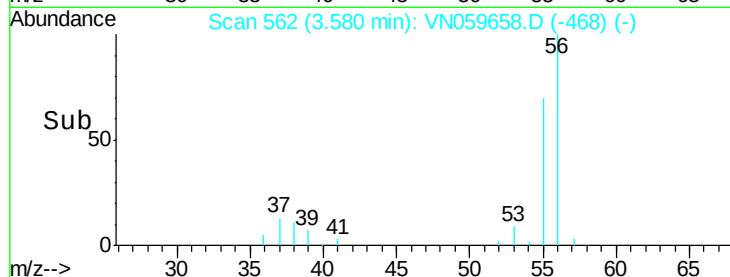
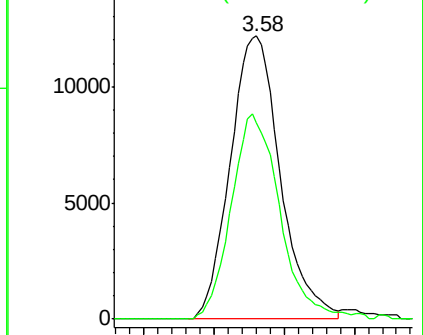
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.638 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

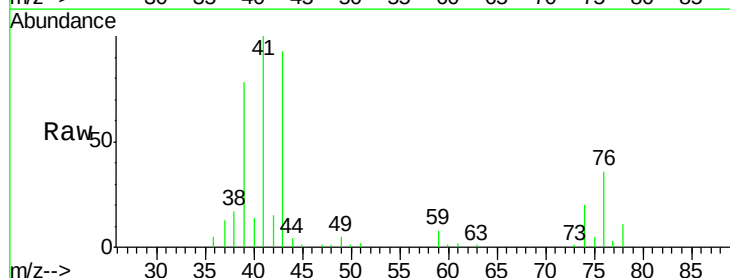
Tgt Ion: 41 Resp: 94389

Ion Ratio Lower Upper

41 100

39 71.9 57.8 86.8

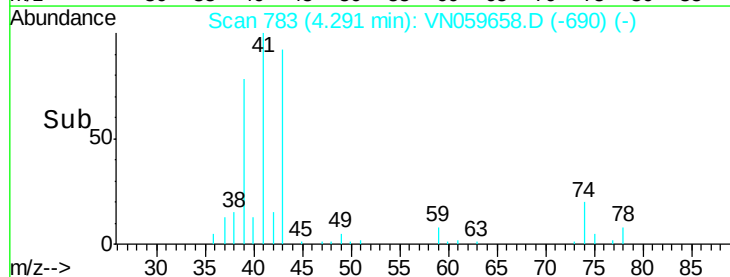
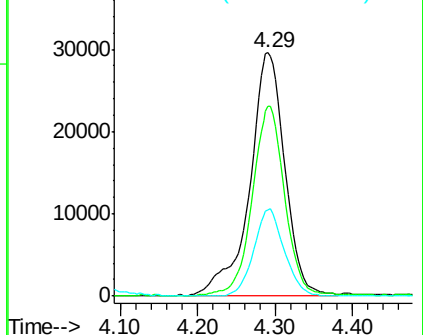
76 30.8 25.4 38.0

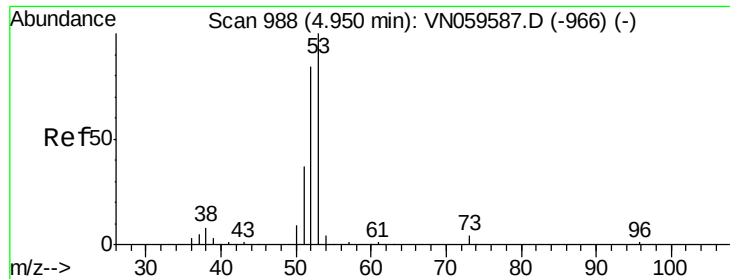


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





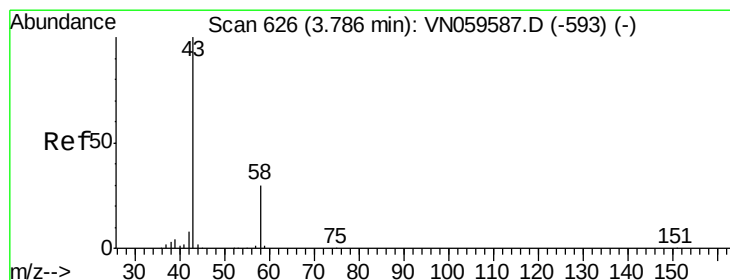
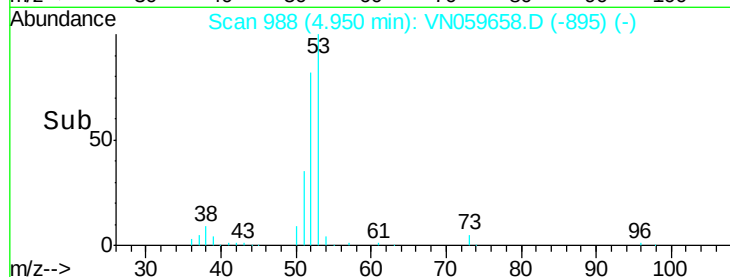
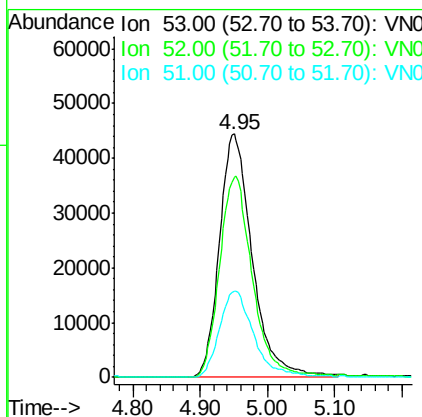
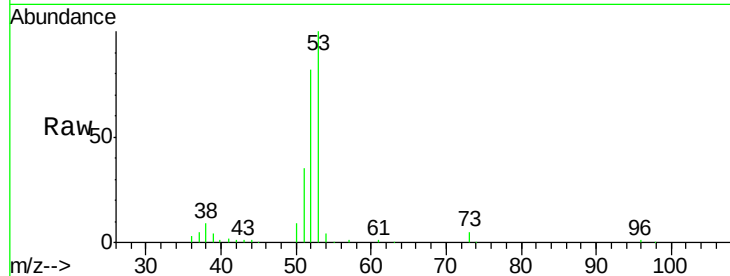
#15
 Acrylonitrile
 Concen: 99.603 ug/l
 RT: 4.95 min Scan# 988
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.3	99.5
51	36.9	29.7	44.5

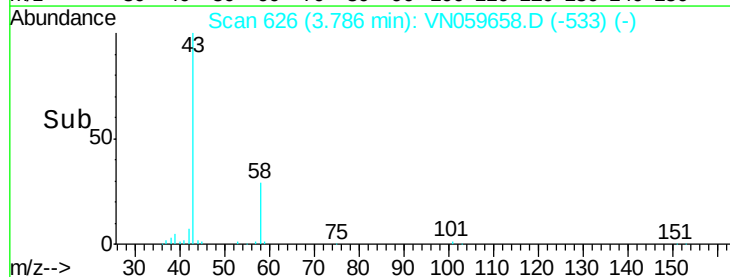
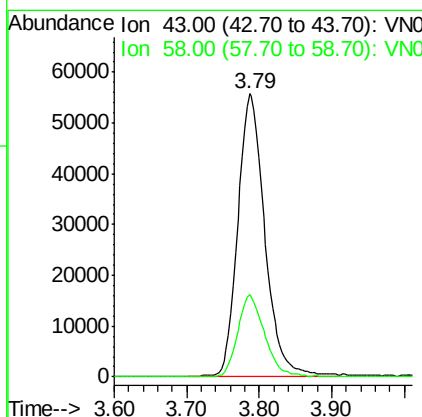
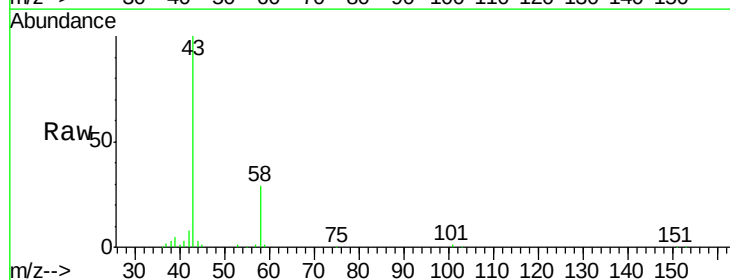
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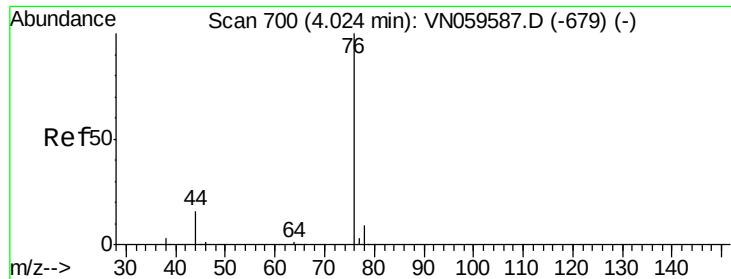
MMDadoda
 12/19/2019 11:12:12 AM



#16
 Acetone
 Concen: 71.569 ug/l
 RT: 3.79 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.0	23.6	35.4





#17

Carbon Disulfide

Concen: 17.735 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBS02

Tot Ion: 76 Resp: 145803

Ion Ratio Lower Upper

76 100

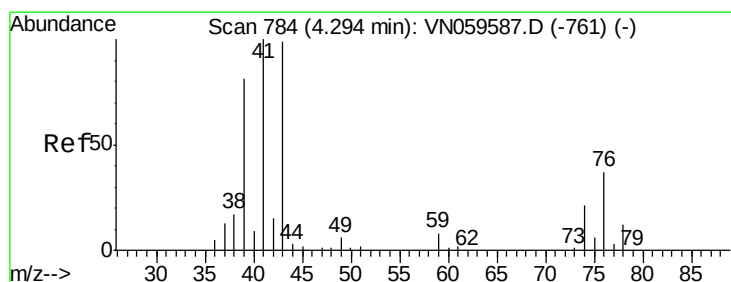
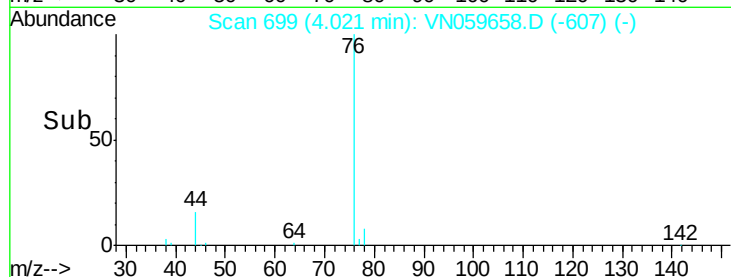
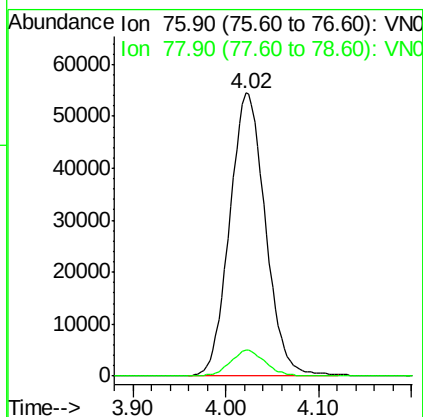
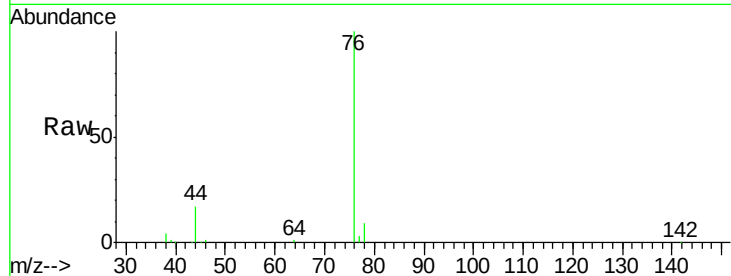
78 9.3 7.4 11.0

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12/19/2019 11:12:12 AM



#18

Methyl Acetate

Concen: 18.960 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN059658.D

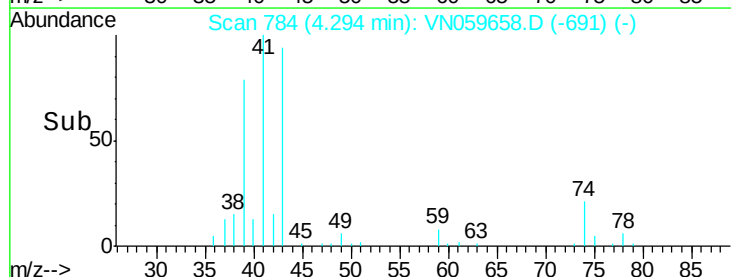
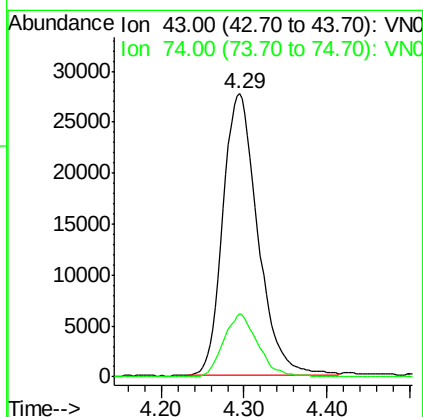
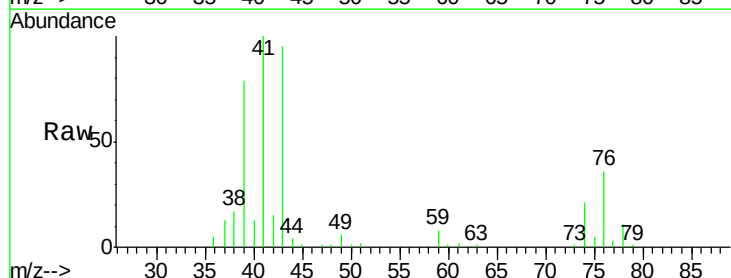
Acq: 18 Dec 2019 18:38

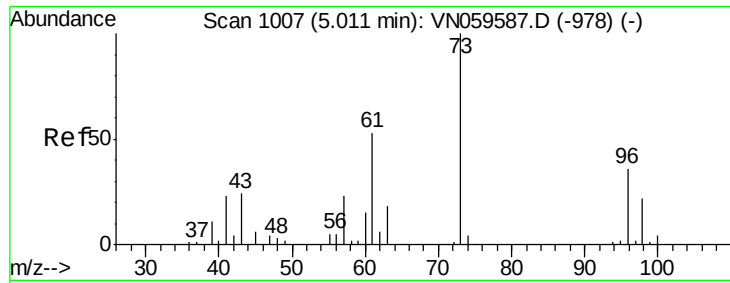
Tgt Ion: 43 Resp: 80731

Ion Ratio Lower Upper

43 100

74 21.8 17.5 26.3





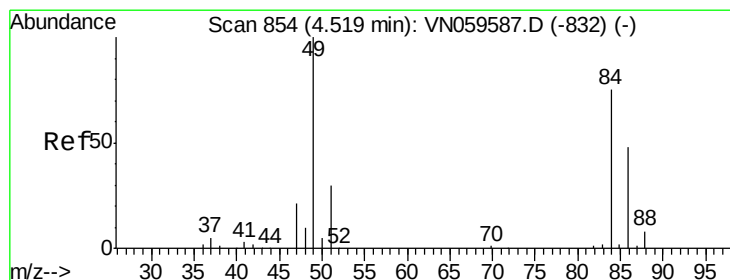
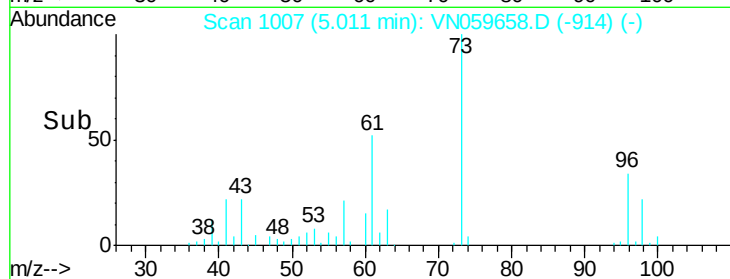
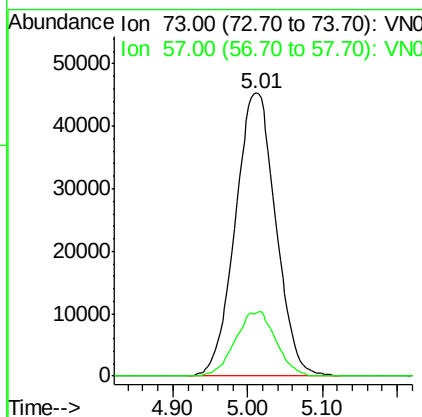
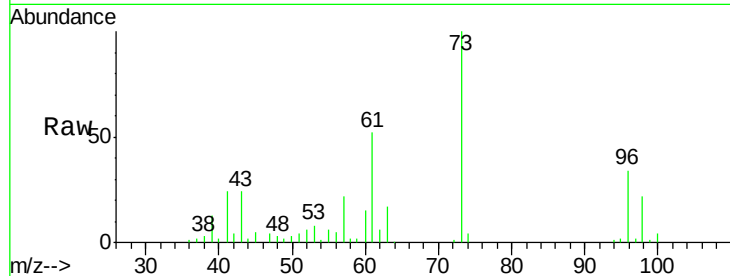
#19
Methyl tert-butyl Ether
Concen: 19.569 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion: 73 Resp: 170453
Ion Ratio Lower Upper
73 100
57 22.1 18.6 27.8

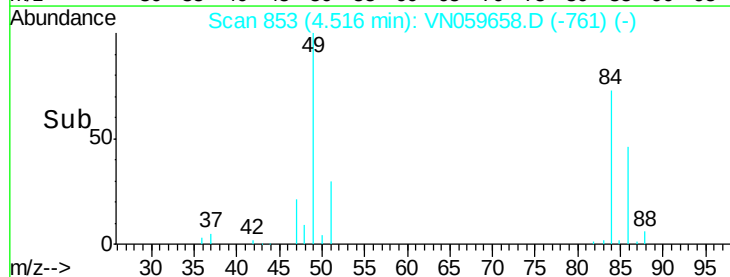
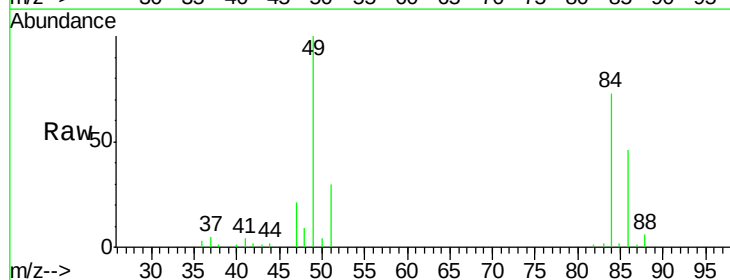
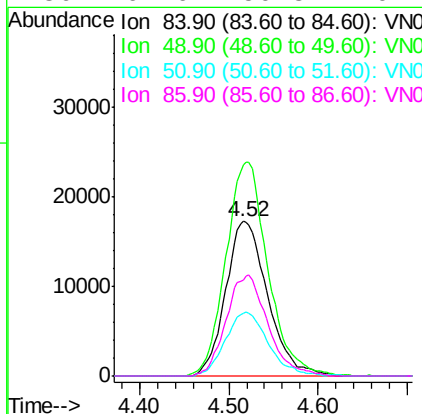
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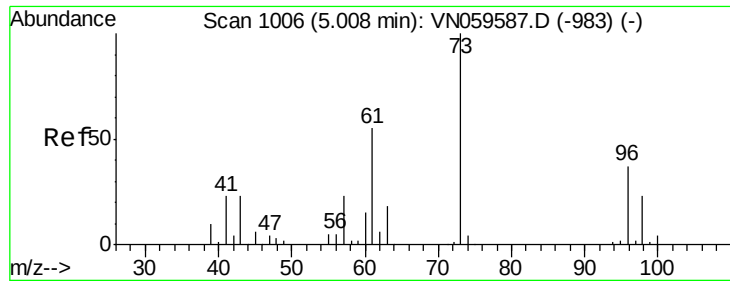
MMDadoda
12/19/2019 11:12:12 AM



#20
Methylene Chloride
Concen: 19.196 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion: 84 Resp: 56335
Ion Ratio Lower Upper
84 100
49 135.2 106.6 160.0
51 40.8 31.9 47.9
86 62.6 50.8 76.2





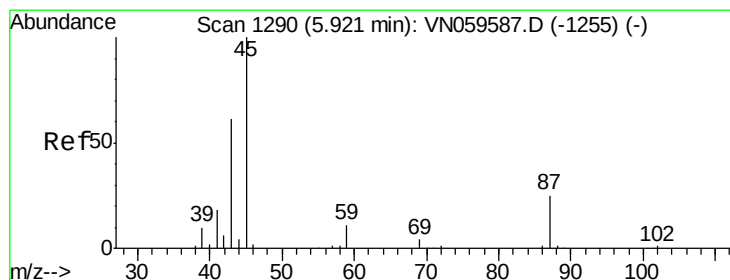
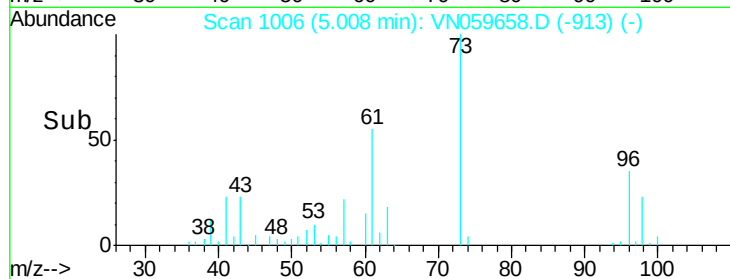
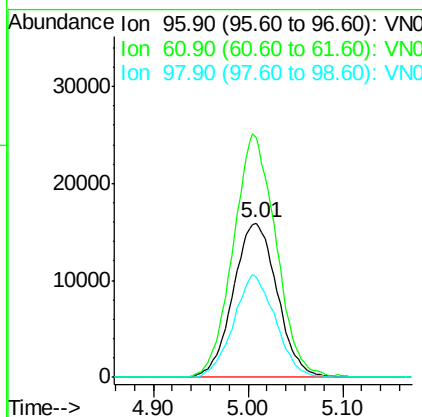
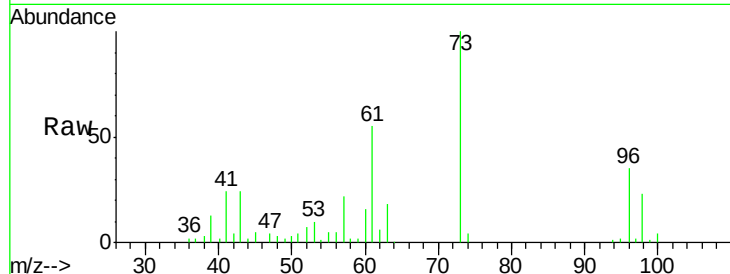
#21
trans-1,2-Dichloroethene
Concen: 18.666 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.5	120.4	180.6
98	65.2	50.6	75.8

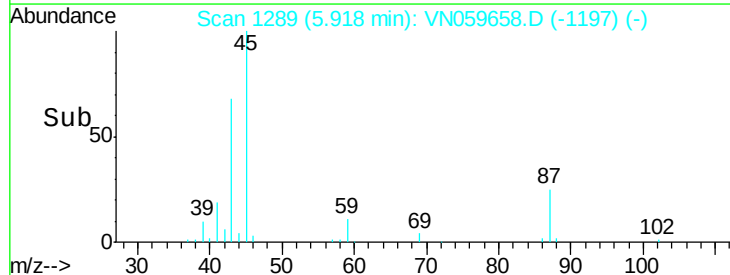
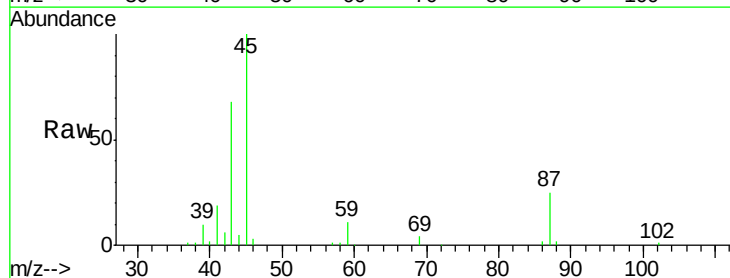
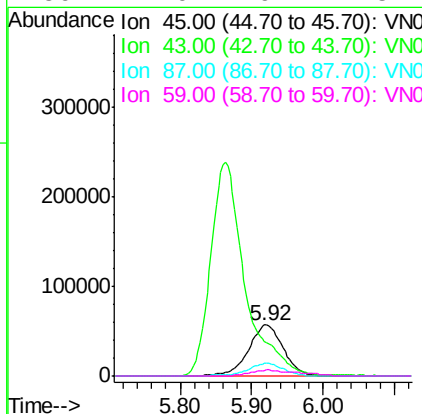
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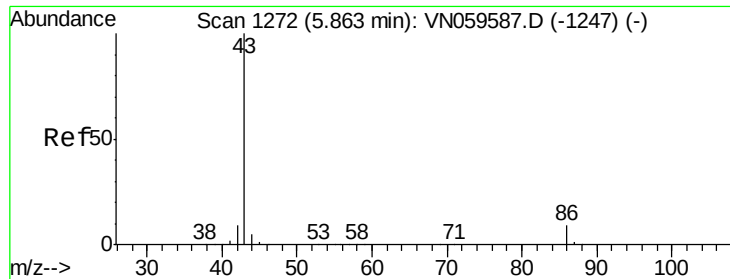
MMDadoda
12/19/2019 11:12:12 AM



#22
Diisopropyl ether
Concen: 20.595 ug/l
RT: 5.92 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
45	100		
43	65.9	50.8	76.2
87	24.6	21.0	31.6
59	11.0	9.1	13.7





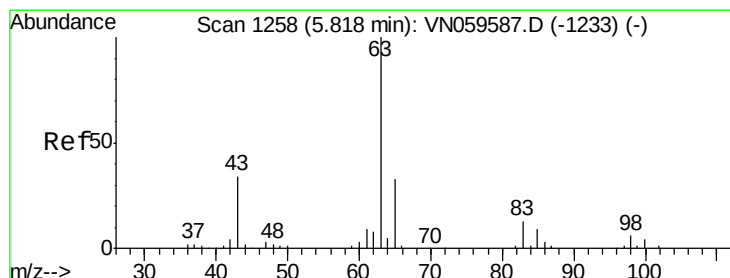
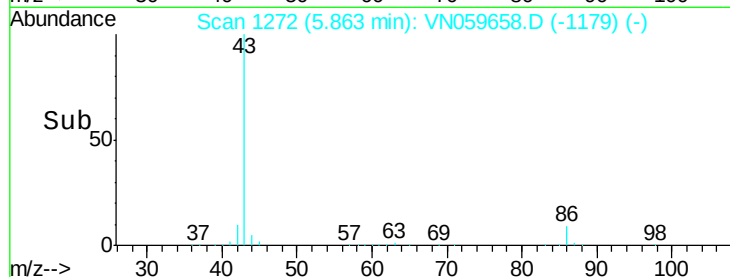
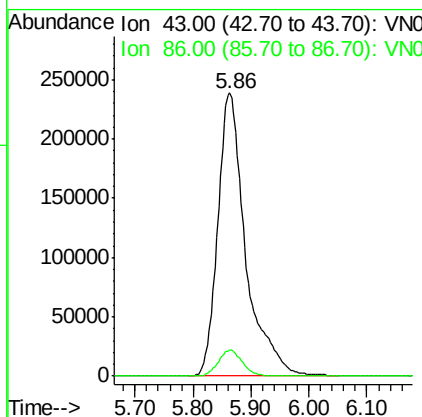
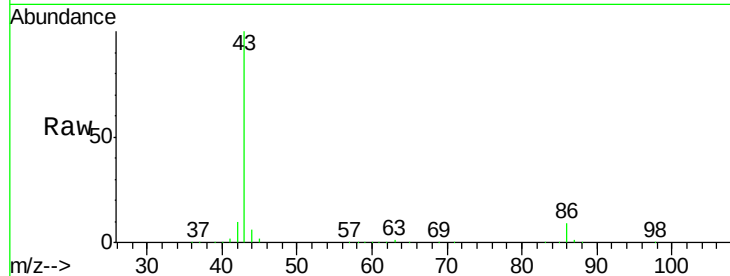
#23
 Vinyl Acetate
 Concen: 109.008 ug/l
 RT: 5.86 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	43	Resp	798698
Ion Ratio	100	Lower	Upper
43	100		
86	9.2	7.6	11.4

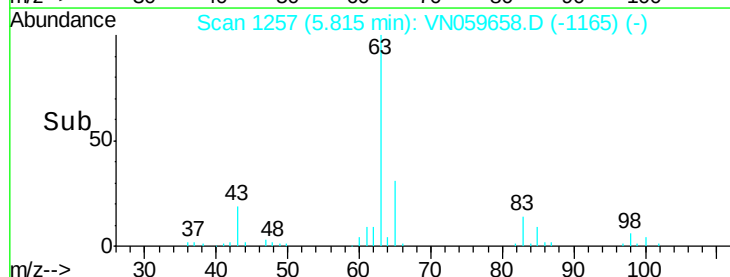
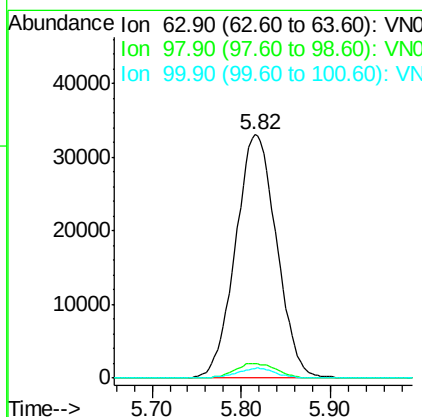
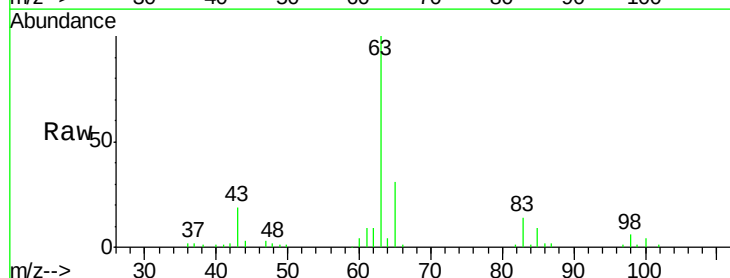
Manual Integrations
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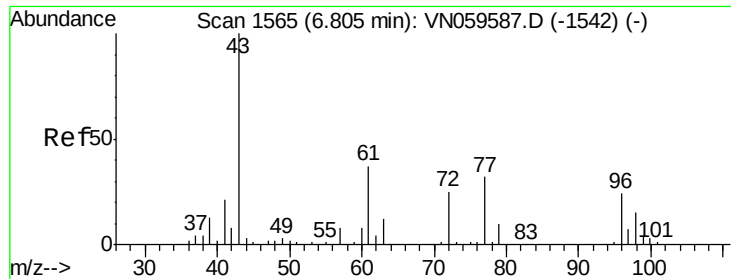
MMDadoda
 12/19/2019 11:12:12 AM



#24
 1,1-Dichloroethane
 Concen: 19.925 ug/l
 RT: 5.82 min Scan# 1257
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	63	Resp	105380
Ion Ratio	100	Lower	Upper
63	100		
98	6.0	2.9	8.7
100	3.9	2.0	6.0





#25

2-Butanone

Concen: 87.950 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion: 43 Resp: 213706

Ion Ratio Lower Upper

43 100

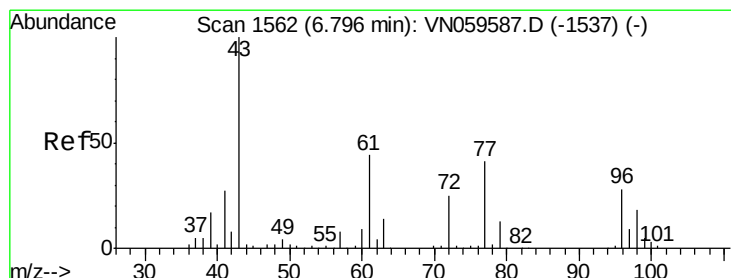
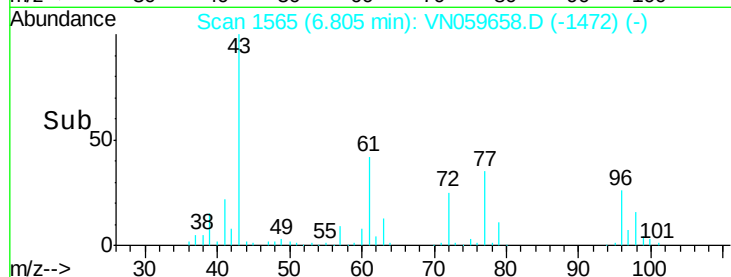
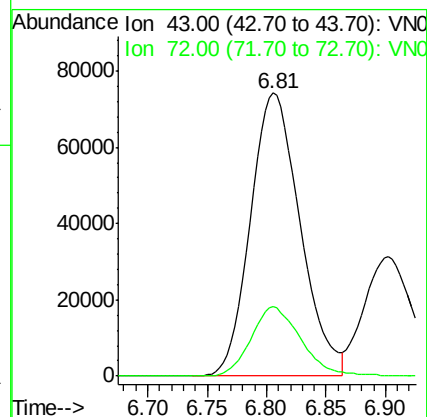
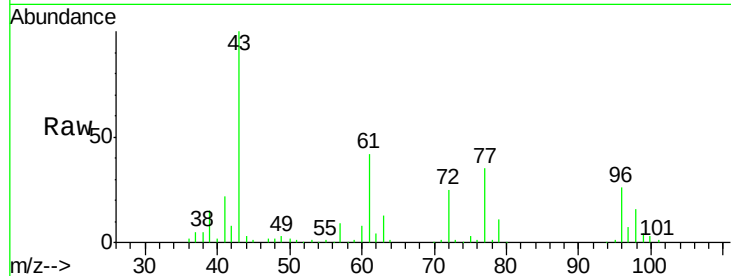
72 24.8 19.9 29.9

Manual Integrations

APPROVED

MMDadoda

12/19/2019 11:12:12 AM



#26

2,2-Dichloropropane

Concen: 18.974 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN059658.D

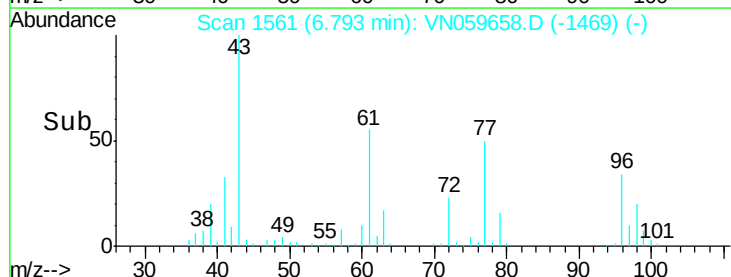
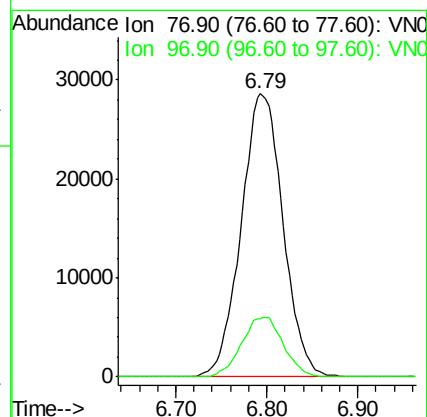
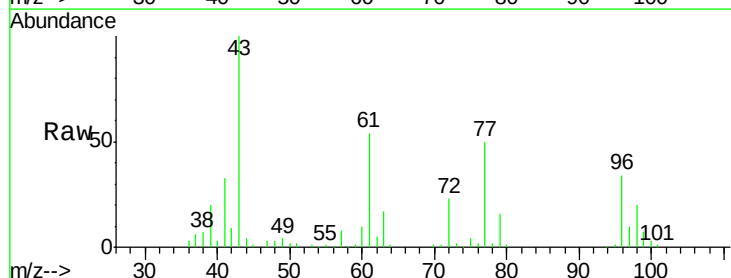
Acq: 18 Dec 2019 18:38

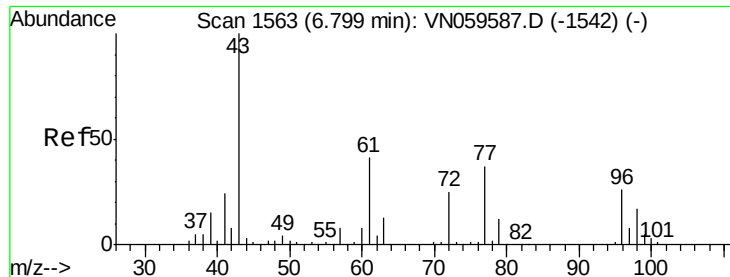
Tgt Ion: 77 Resp: 91204

Ion Ratio Lower Upper

77 100

97 20.9 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 19.324 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

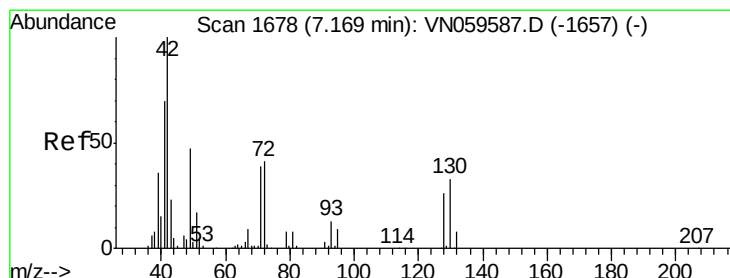
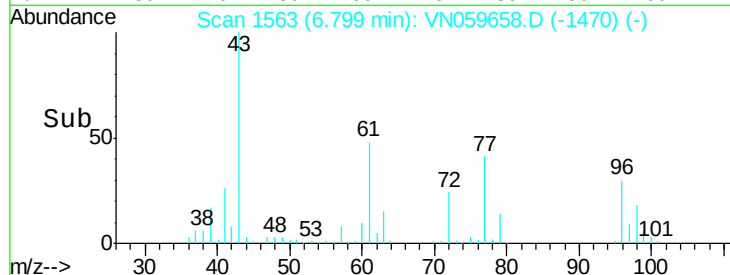
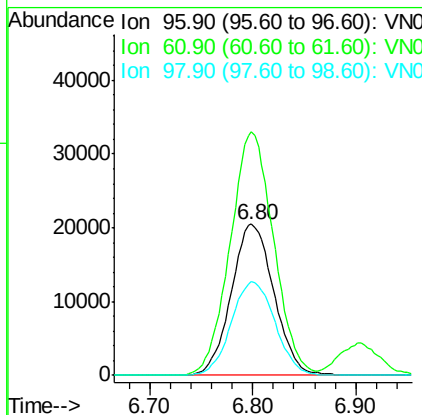
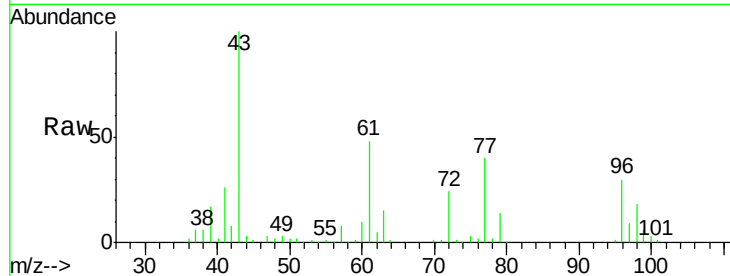
ClientSampleId :

VN1218MBSD02

Tot Ion:	96	Resp:	58889
Ion	Ratio	Lower	Upper
96	100		
61	163.9	0.0	317.6
98	63.5	0.0	127.0

Manual Integrations
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#28

Bromochloromethane

Concen: 18.591 ug/l

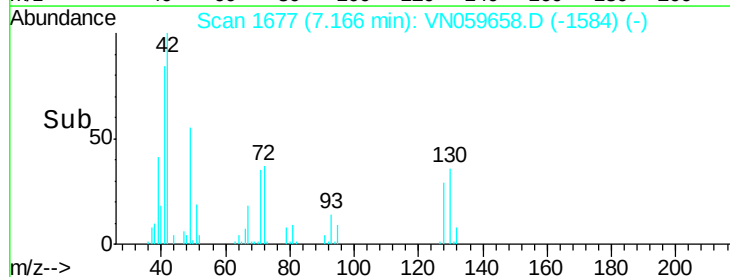
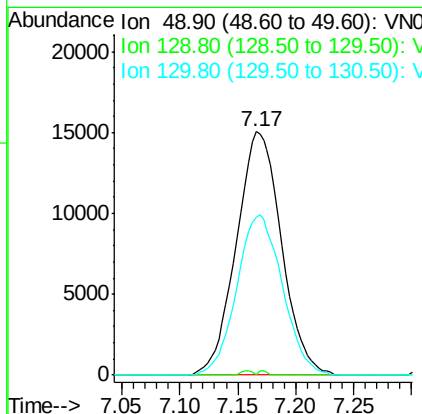
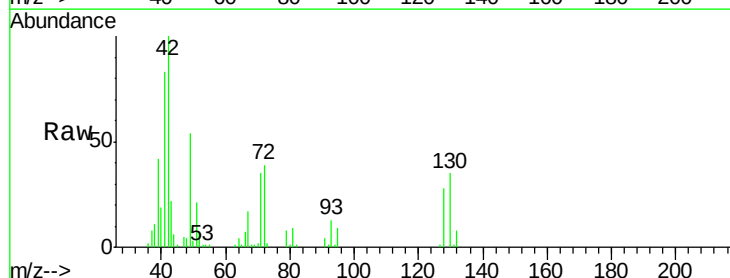
RT: 7.17 min Scan# 1677

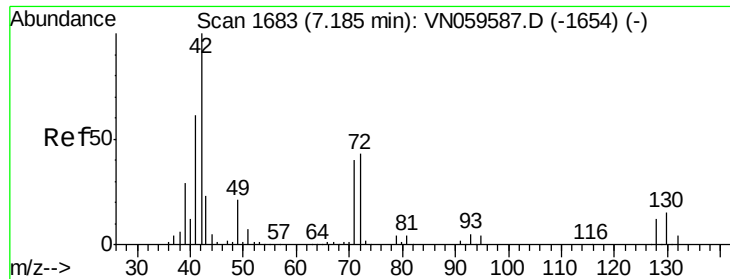
Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	49	Resp:	40655
Ion	Ratio	Lower	Upper
49	100		
129	0.3	0.0	3.4
130	66.3	54.7	82.1





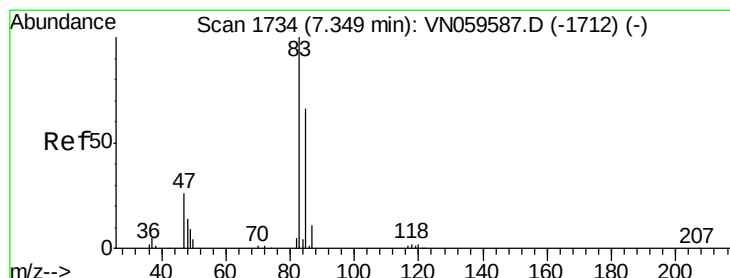
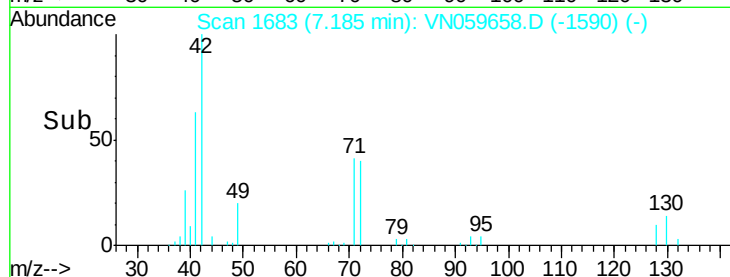
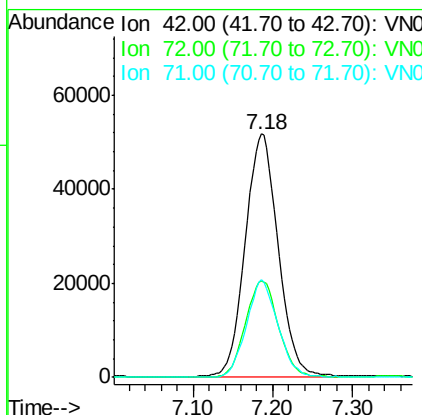
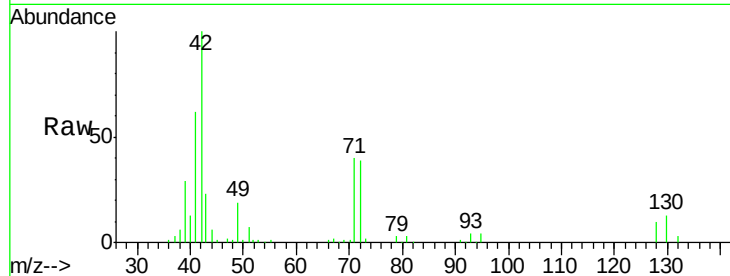
#29
Tetrahydrofuran
Concen: 98.500 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.4	33.1	49.7
71	38.0	31.4	47.0

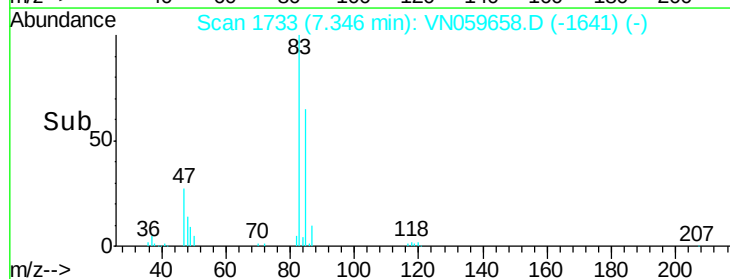
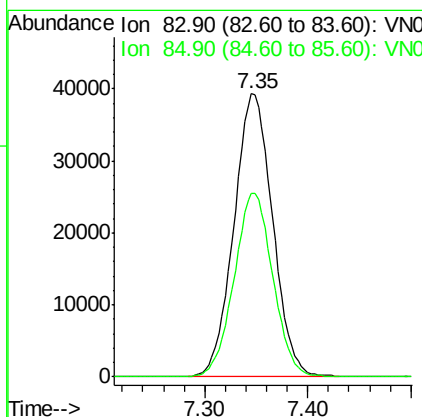
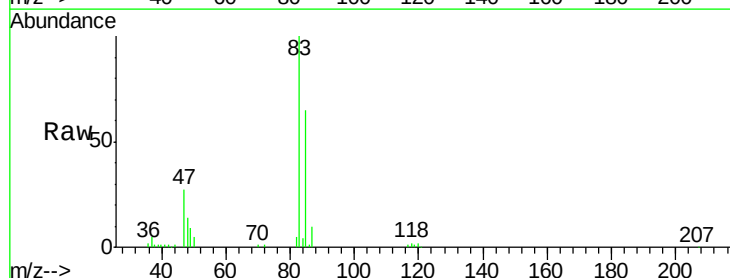
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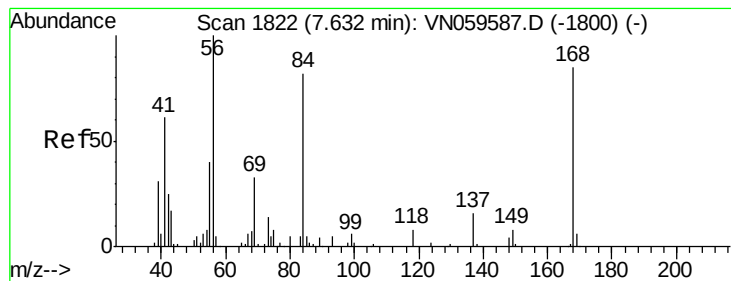
MMDadoda
12/19/2019 11:12:12 AM



#30
Chloroform
Concen: 19.746 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.4	78.6





#31

Cyclohexane

Concen: 19.387 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

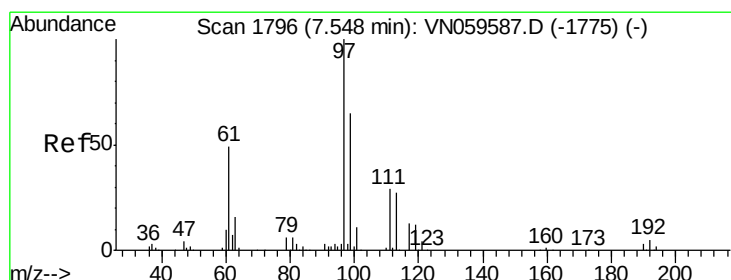
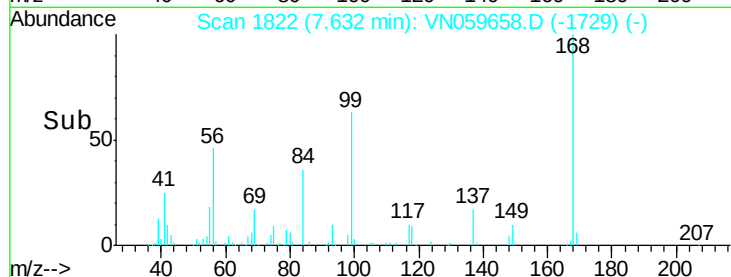
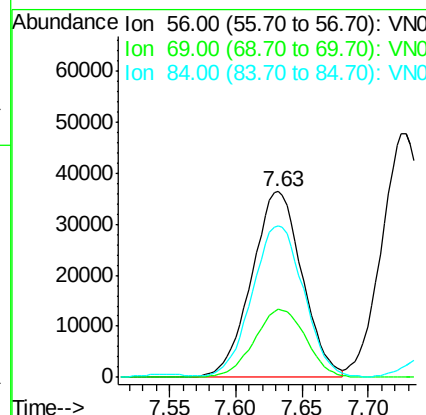
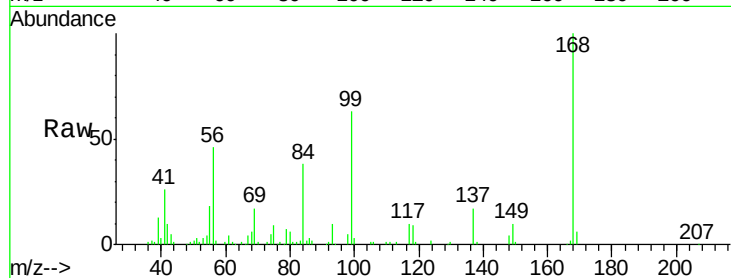
ClientSampleId :

VN1218MBSD02

Tot Ion:	56	Resp:	96881
Ion	Ratio	Lower	Upper
56	100		
69	36.6	26.5	39.7
84	80.9	65.3	97.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.190 ug/l

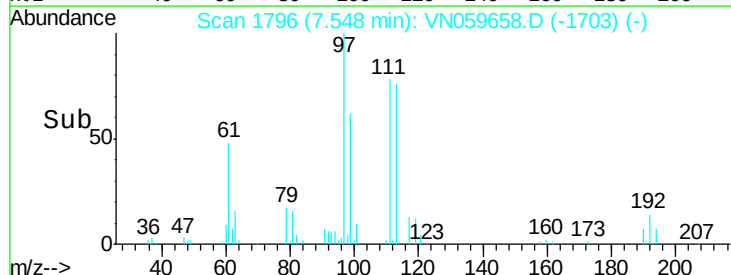
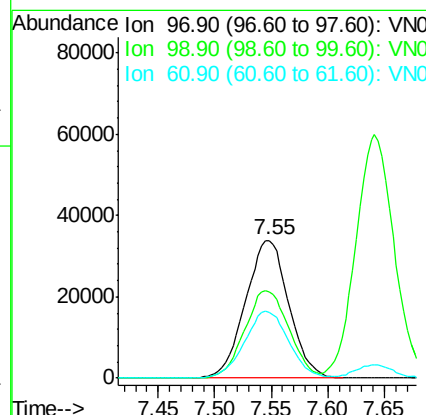
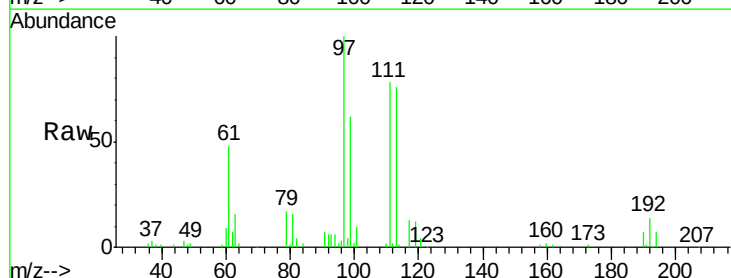
RT: 7.55 min Scan# 1796

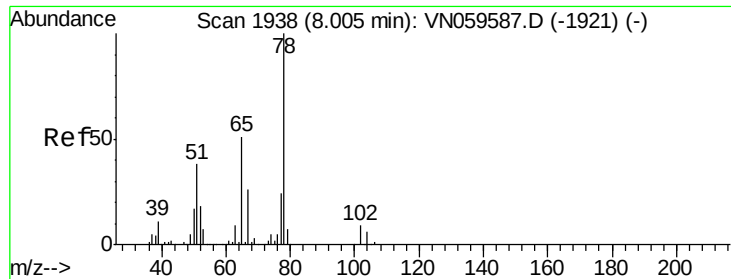
Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	97	Resp:	90065
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.0	76.4
61	49.6	38.5	57.7





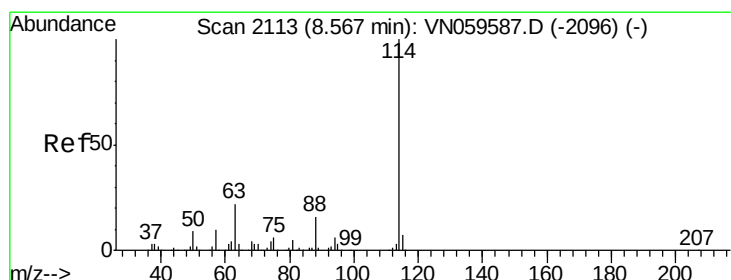
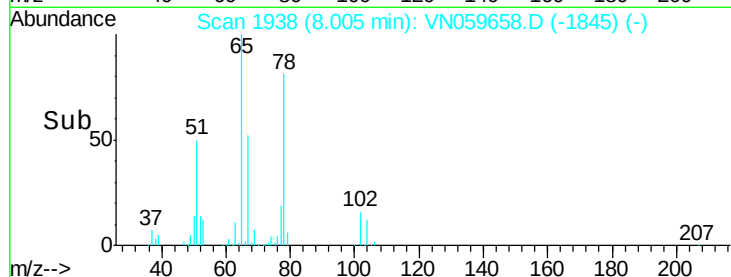
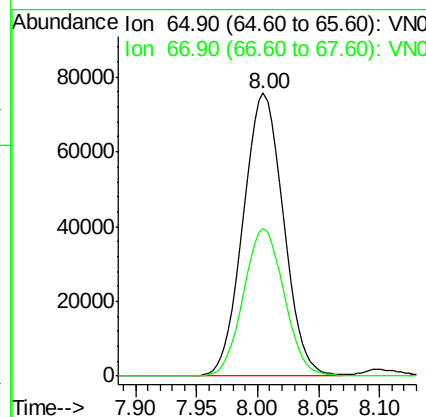
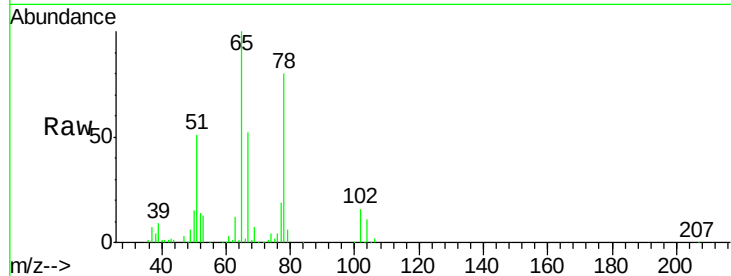
#33
 1,2-Dichloroethane-d4
 Concen: 50.674 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	173435		
67	52.4	0.0	103.0	

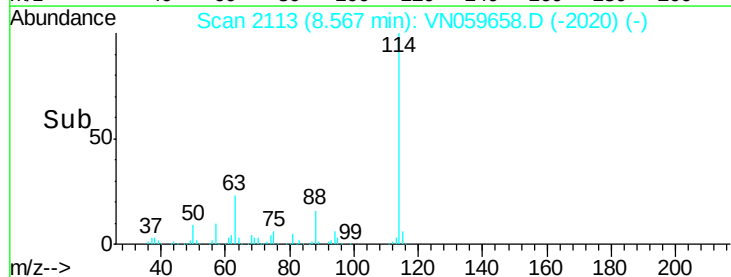
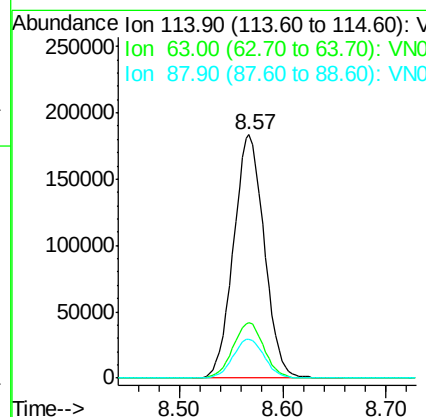
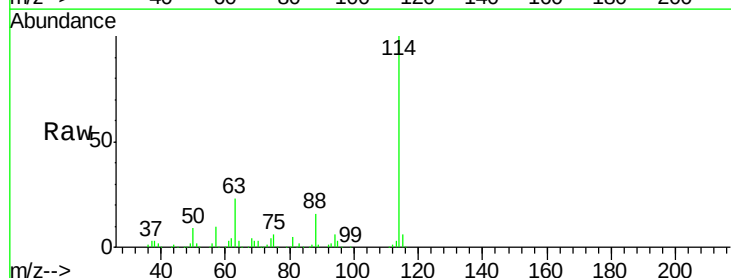
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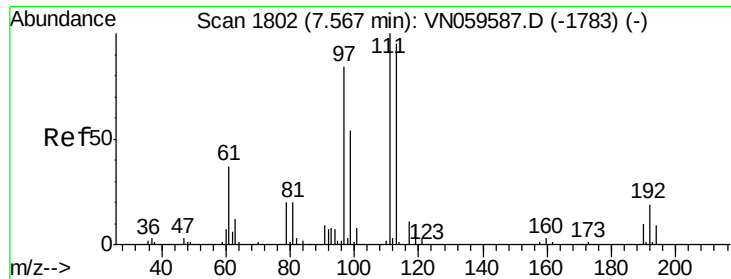
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 12/19/2019 11:12:12 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	381444		
63	22.9	0.0	43.6	
88	16.1	0.0	31.4	





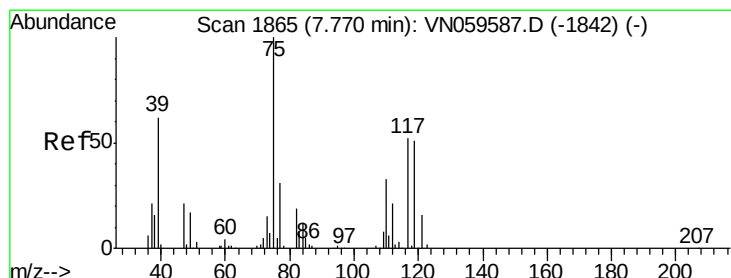
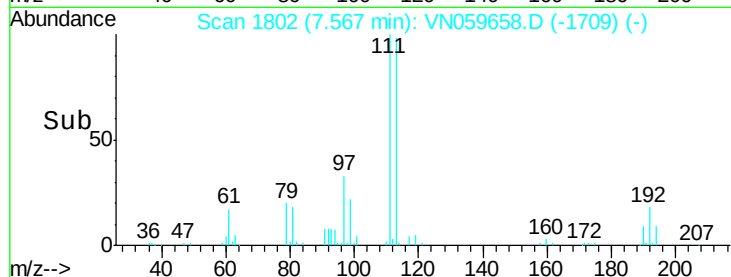
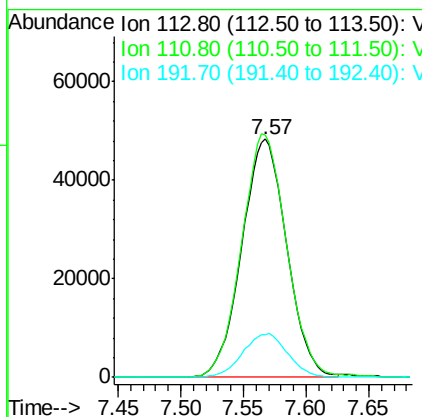
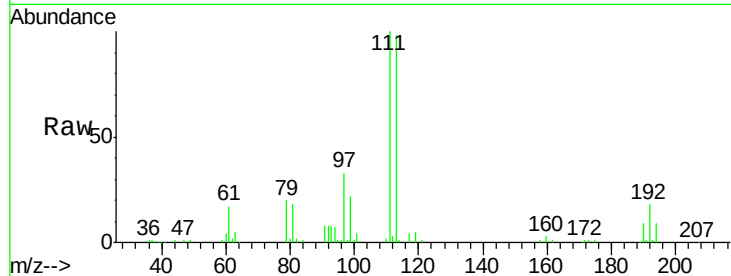
#35
Dibromofluoromethane
Concen: 50.482 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	120482		
111	102.2	83.5	125.3	
192	18.3	15.4	23.2	

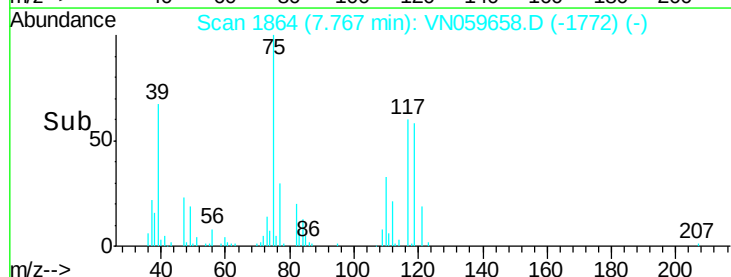
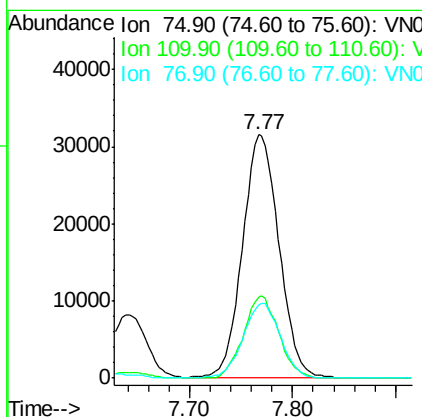
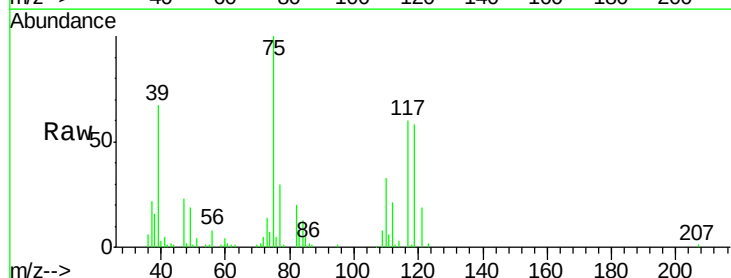
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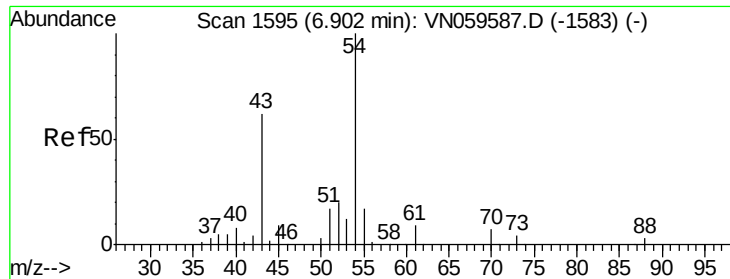
MMDadoda
12/19/2019 11:12:12 AM



#36
1,1-Dichloropropene
Concen: 19.508 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	77600		
110	32.4	16.6	49.7	
77	31.1	25.1	37.7	





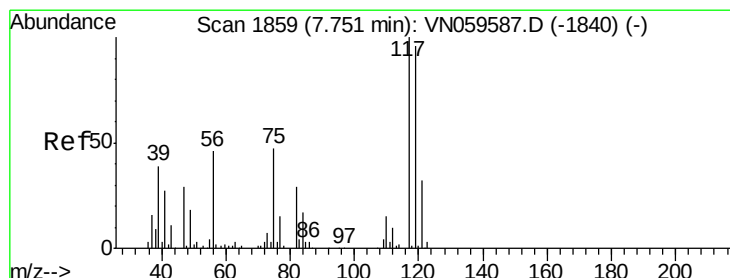
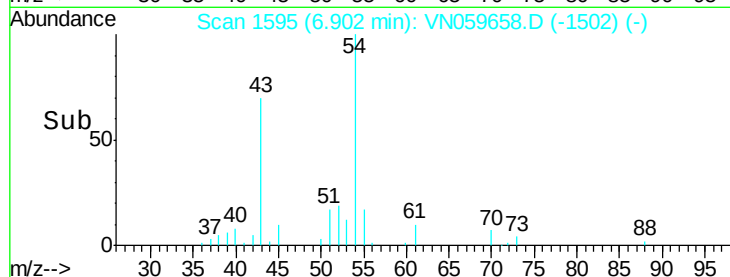
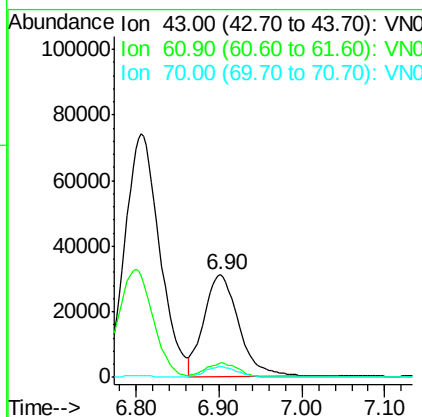
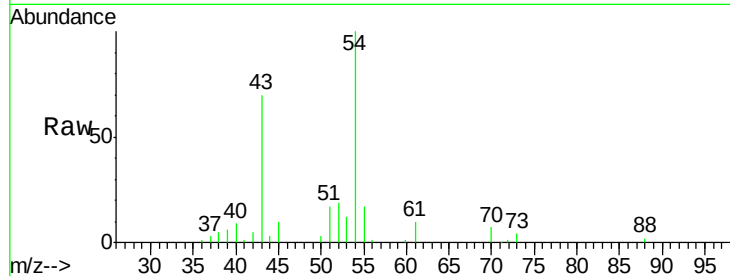
#37
Ethyl Acetate
Concen: 19.728 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.9	16.3
70	9.6	7.7	11.5

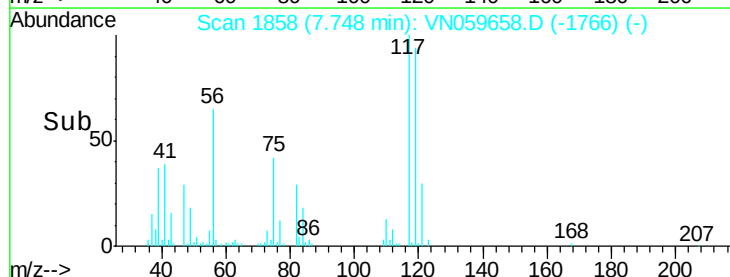
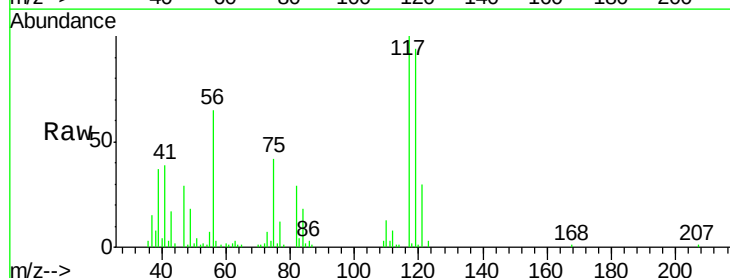
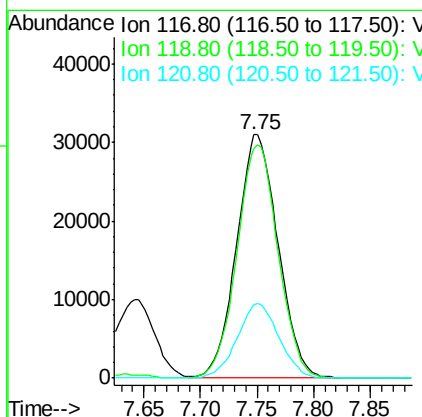
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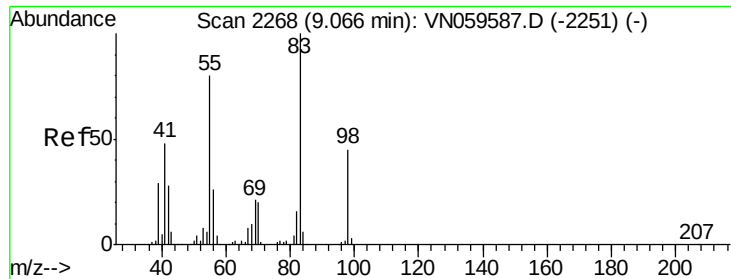
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#38
Carbon Tetrachloride
Concen: 19.148 ug/l
RT: 7.75 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.5	114.7
121	30.2	25.1	37.7





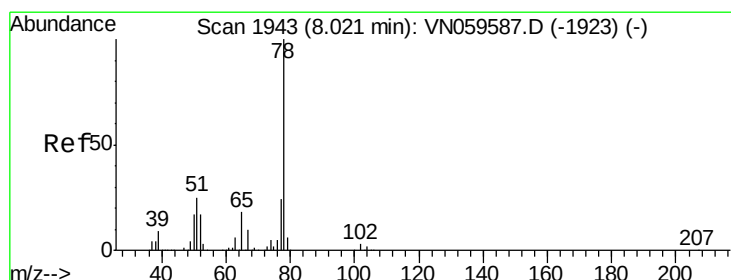
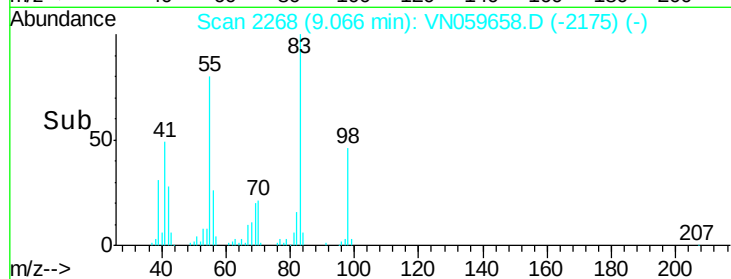
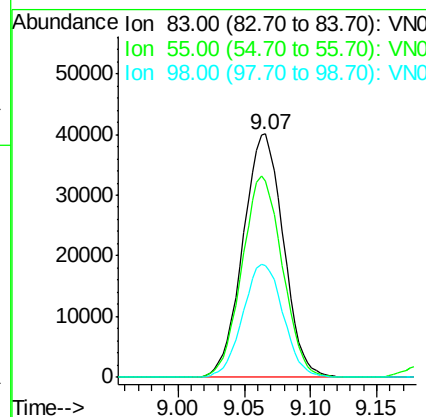
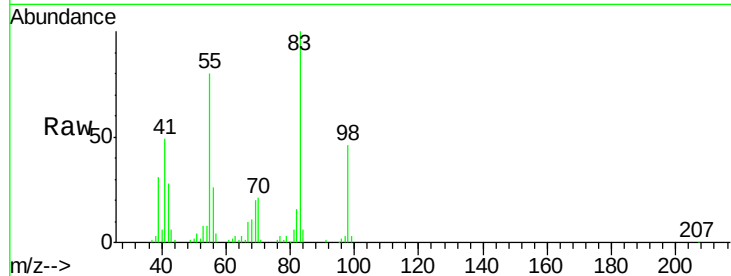
#39
Methylvlcyclohexane
Concen: 18.853 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	80.5	64.2	96.2	
98	46.0	35.9	53.9	

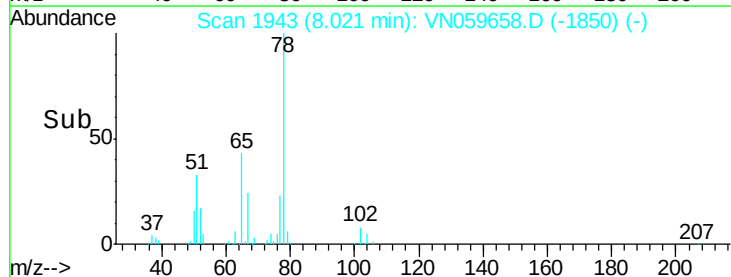
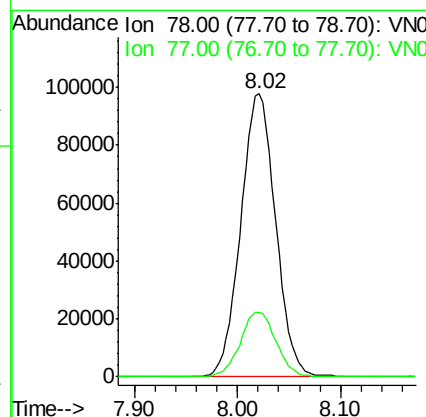
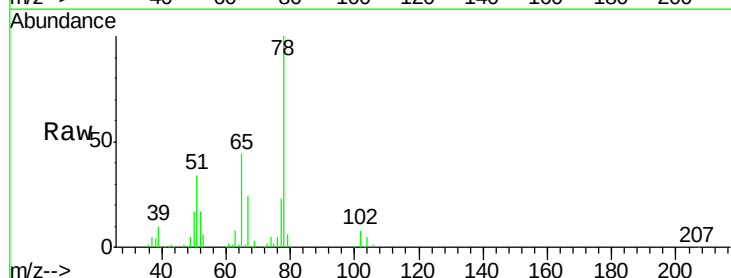
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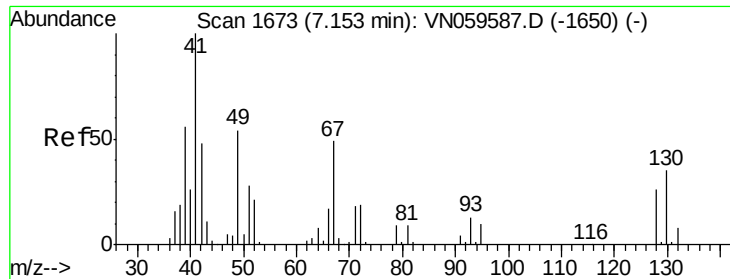
MMDadoda
12/19/2019 11:12:12 AM



#40
Benzene
Concen: 19.766 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	22.9	18.9	28.3	





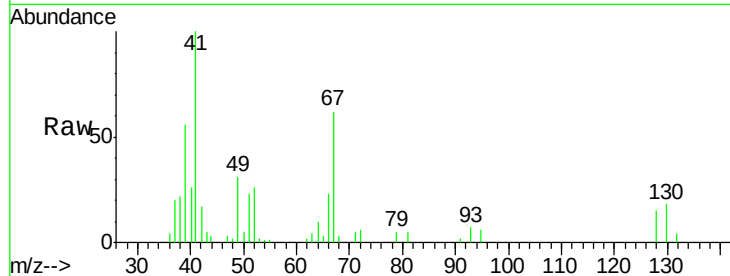
#41
Methacrylonitrile
Concen: 17.878 ug/l m
RT: 7.14 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

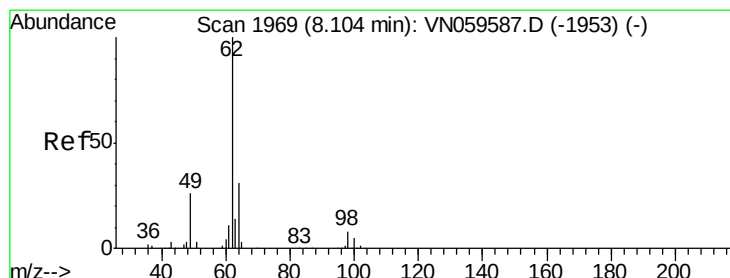
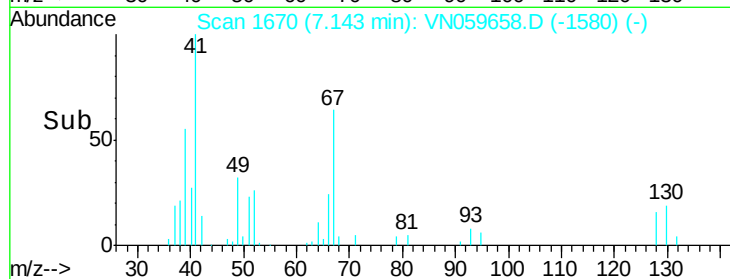
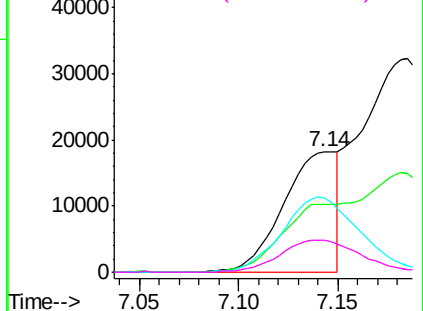
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
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12/19/2019 11:12:12 AM

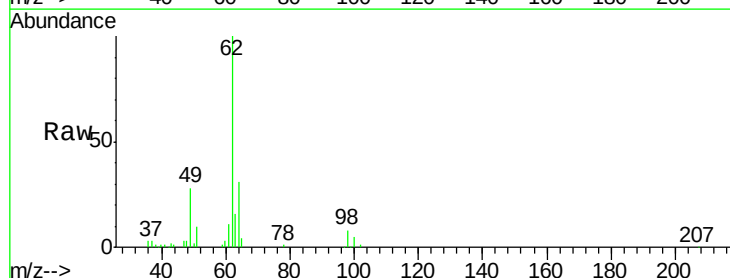


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

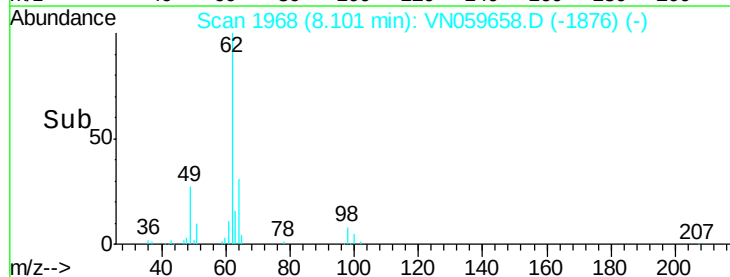
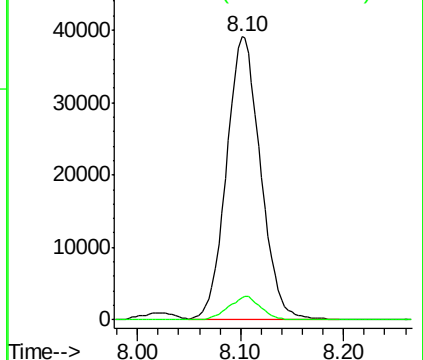


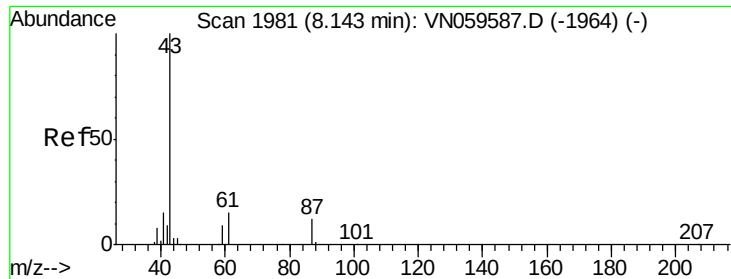
#42
1,2-Dichloroethane
Concen: 20.218 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.8



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.515 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

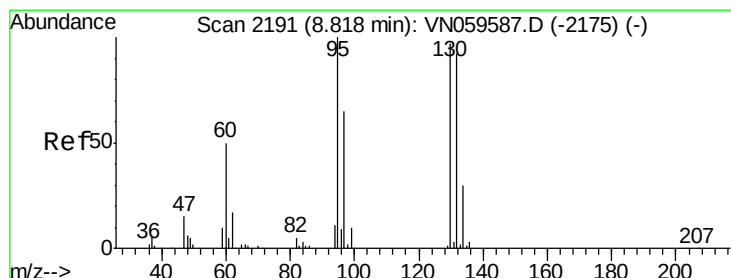
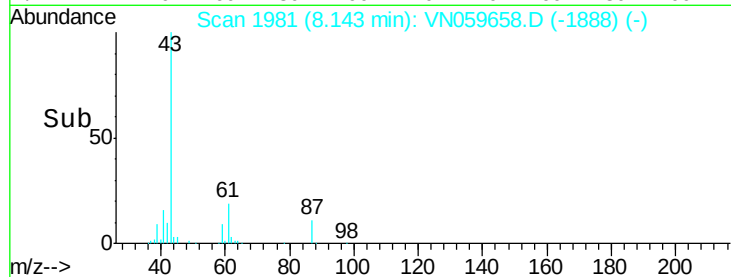
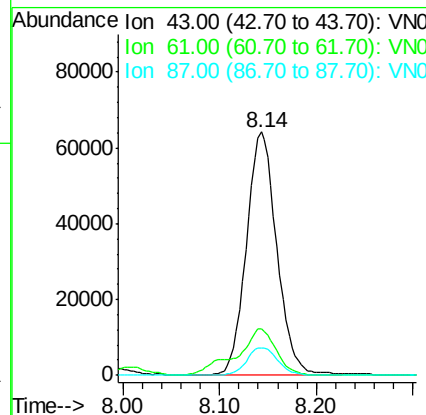
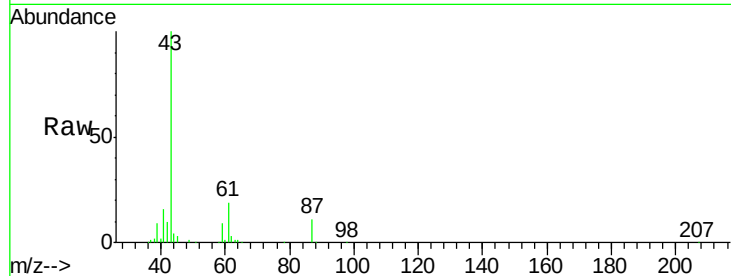
ClientSampleId :

VN1218MBSD02

Tot Ion:	43	Resp:	140276
Ion	Ratio	Lower	Upper
43	100		
61	25.0	20.2	30.2
87	11.5	9.5	14.3

Manual Integrations
APPROVED

MMDadoda
12/19/2019 11:12:12 AM



#44

Trichloroethene

Concen: 18.755 ug/l

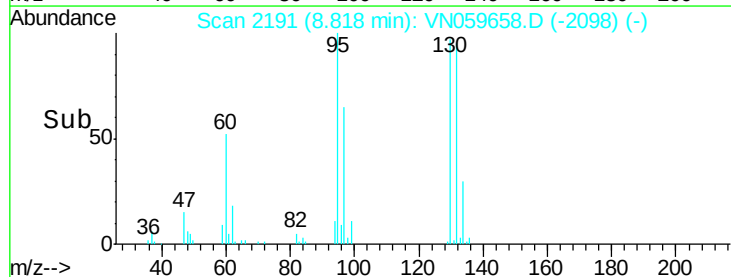
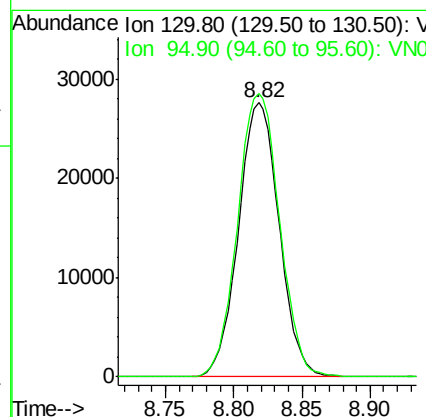
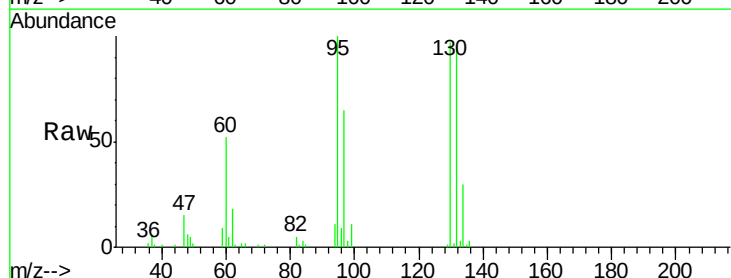
RT: 8.82 min Scan# 2191

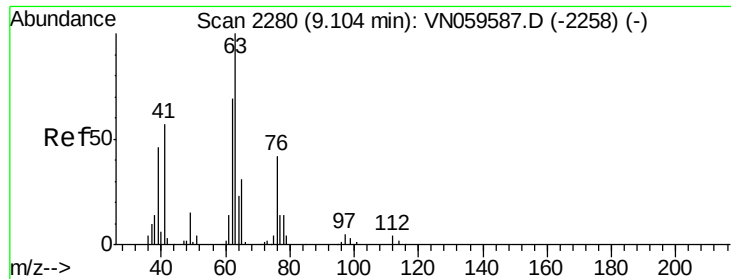
Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	130	Resp:	57109
Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	207.0





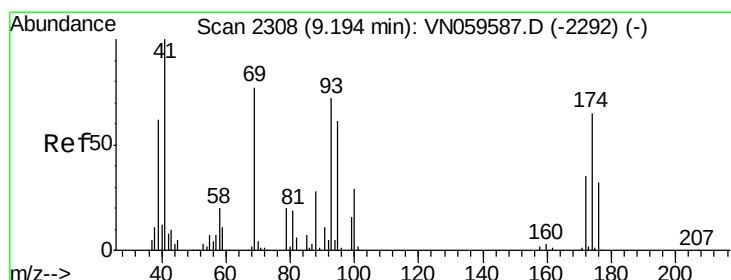
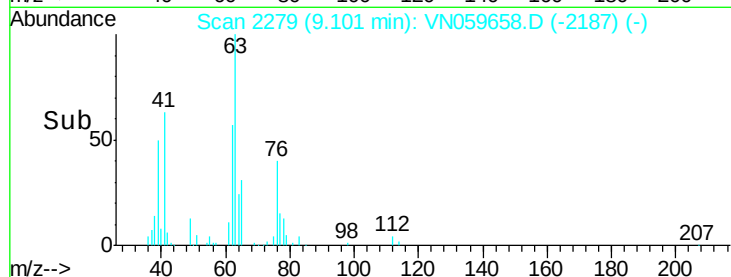
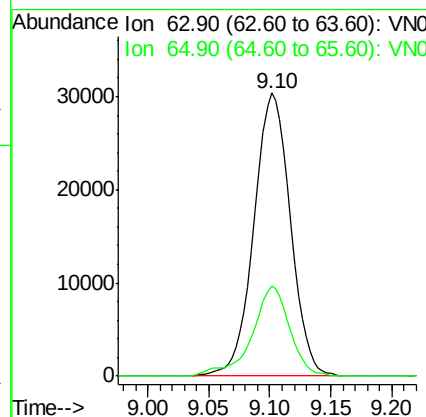
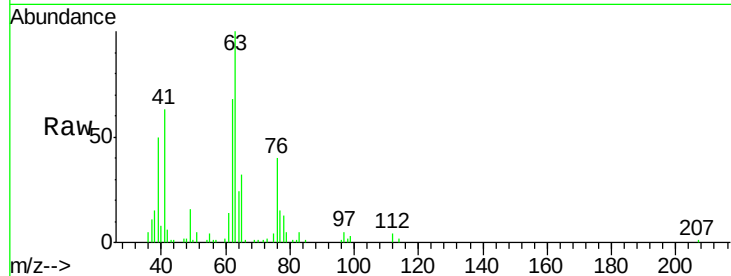
#45
 1,2-Dichloropropane
 Concen: 20.020 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampled :
 VN1218MBSD02

Tot Ion: 63 Resp: 62848
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.9 37.3

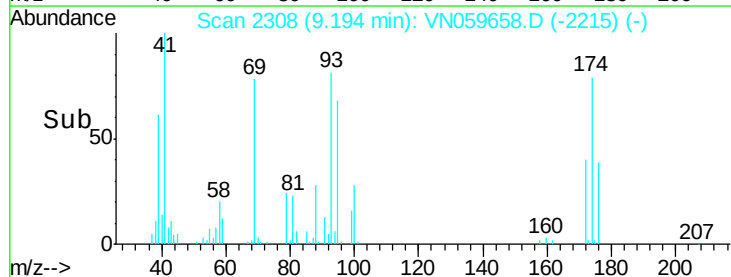
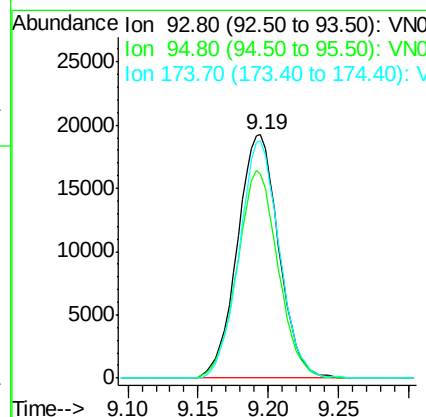
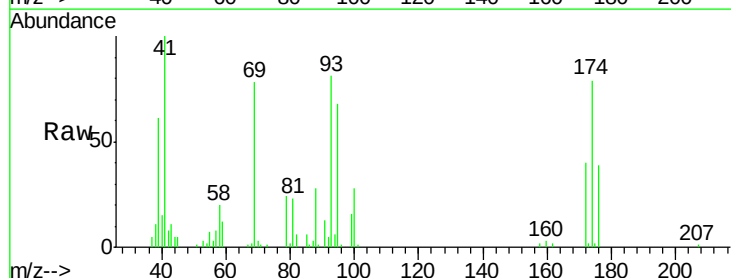
Manual Integrations
 APPROVED

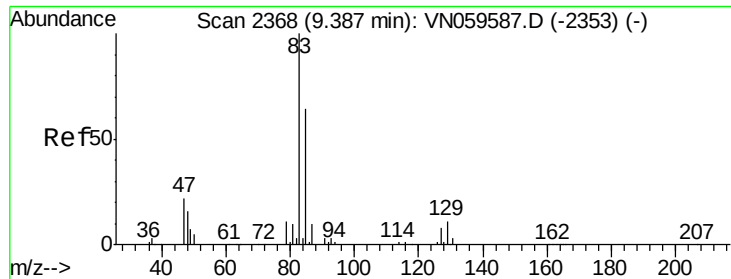
MMDadoda
 12/19/2019 11:12:12 AM



#46
 Dibromomethane
 Concen: 19.171 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion: 93 Resp: 39427
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.0 100.6
 174 94.2 73.4 110.2





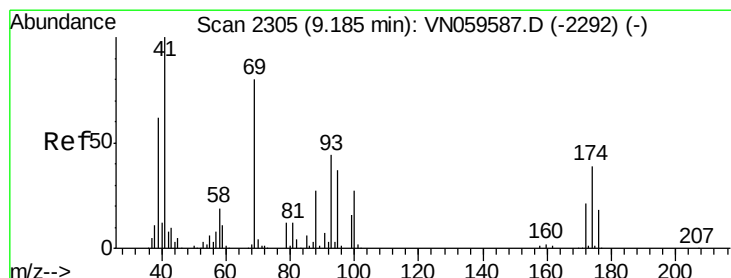
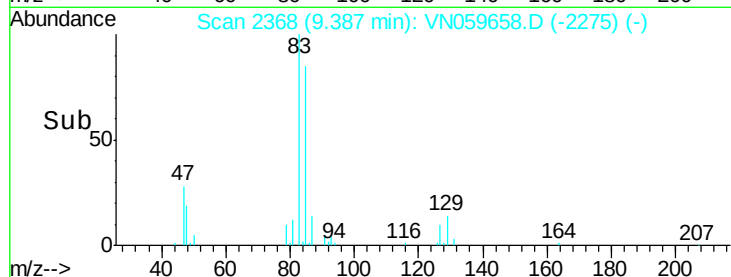
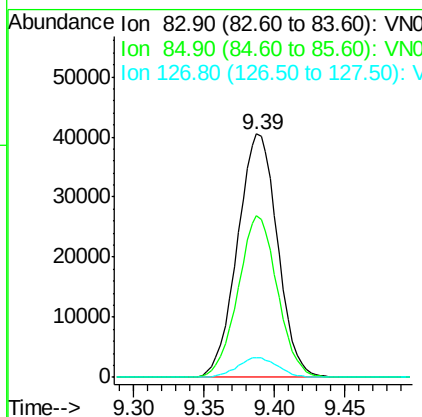
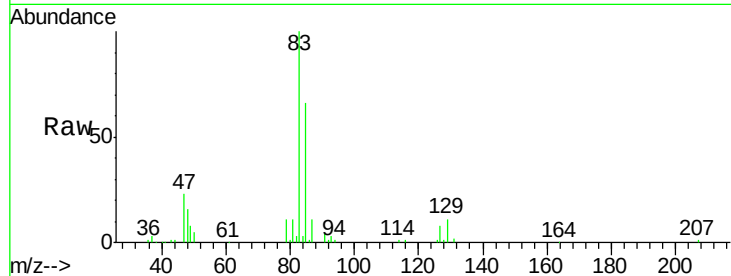
#47
Bromodichloromethane
Concen: 19.642 ug/l
RT: 9.39 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.1	76.7
127	8.1	6.6	9.8

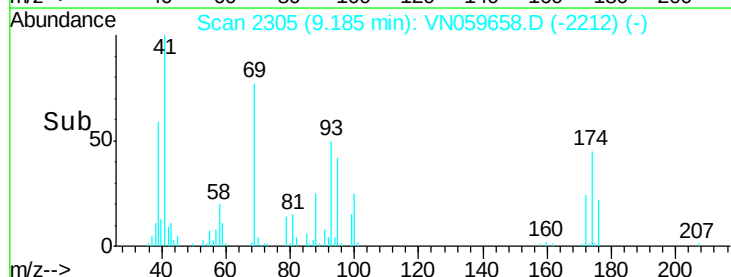
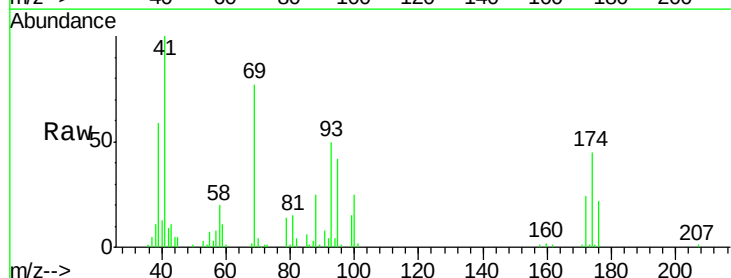
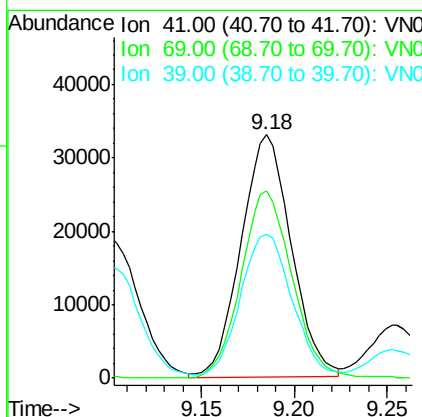
Manual Integrations
APPROVED

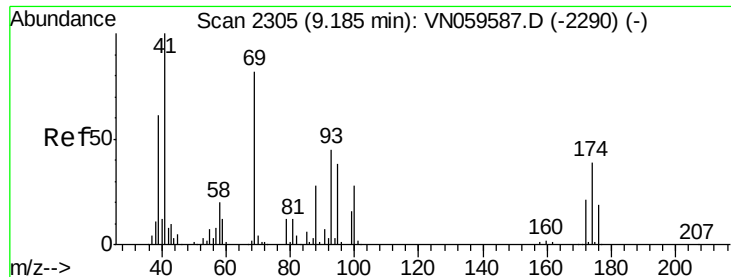
MMDadoda
12/19/2019 11:12:12 AM



#48
Methyl methacrylate
Concen: 19.130 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
41	100		
69	78.4	64.4	96.6
39	60.9	51.3	76.9





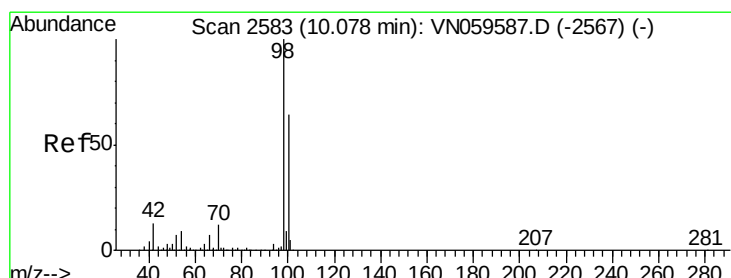
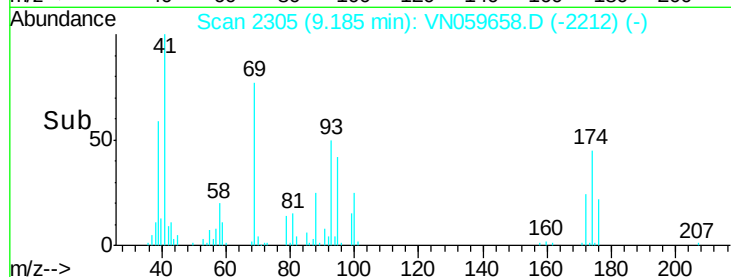
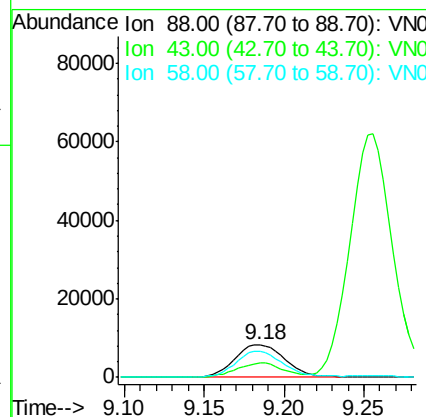
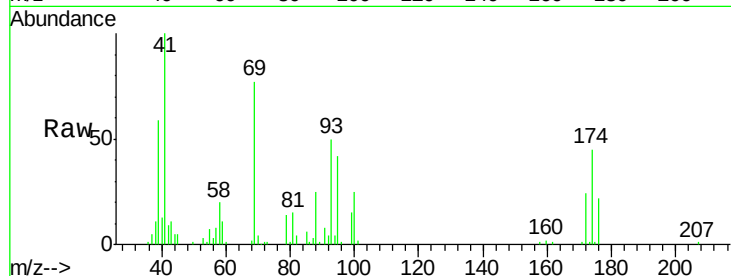
#49
1,4-Dioxane
Concen: 385.403 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	40.8	29.7	44.5	
58	75.4	56.6	85.0	

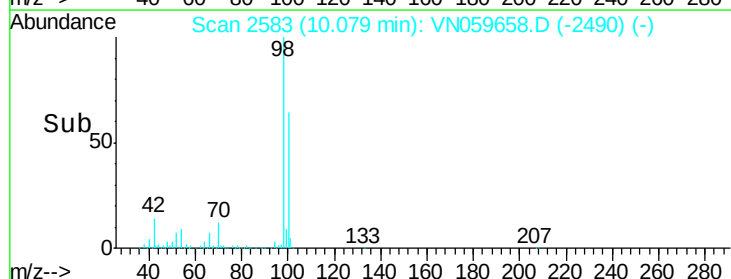
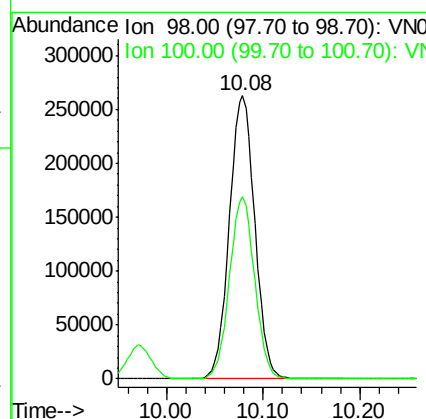
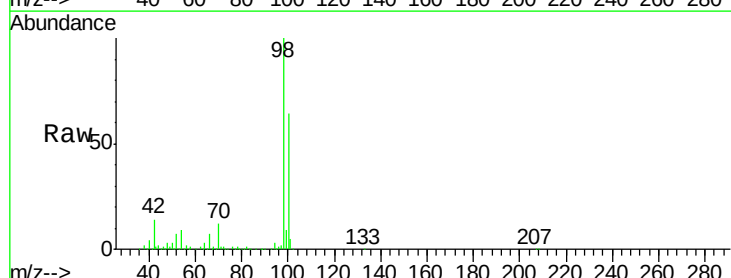
Manual Integrations
APPROVED

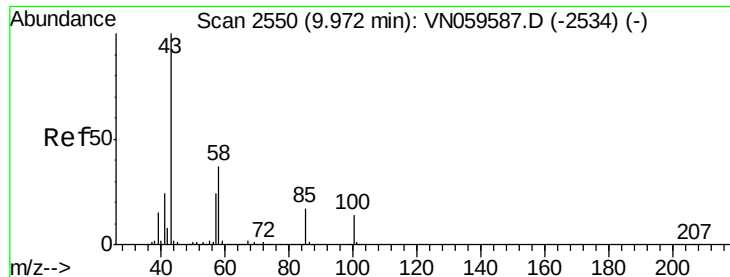
MMDadoda
12/19/2019 11:12:12 AM



#50
Toluene-d8
Concen: 50.751 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	63.5	51.2	76.8	





#51

4-Methyl-2-Pentanone

Concen: 102.063 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion: 43 Resp: 437415

Ion Ratio Lower Upper

43 100

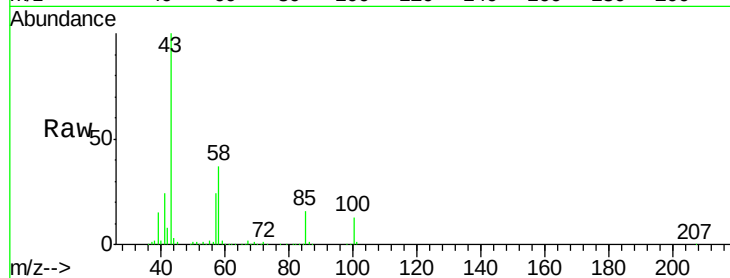
58 37.1 29.8 44.8

Manual Integrations

APPROVED

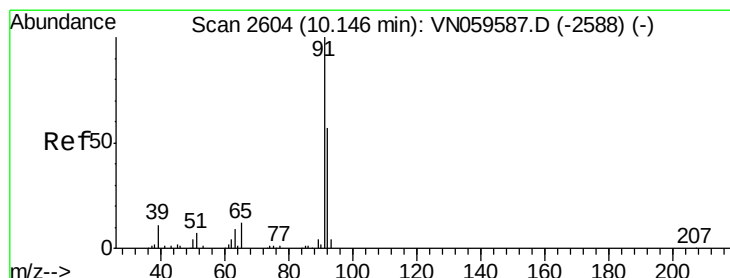
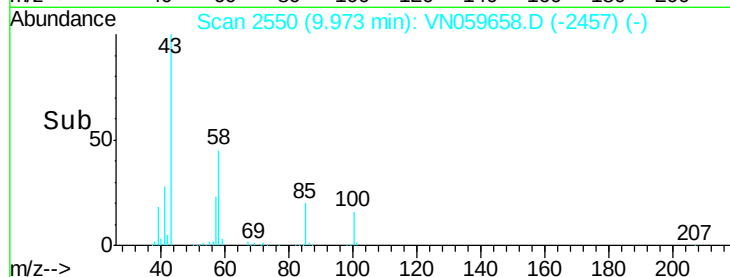
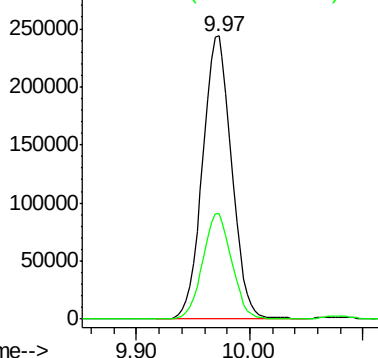
MMDadoda

12/19/2019 11:12:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.376 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN059658.D

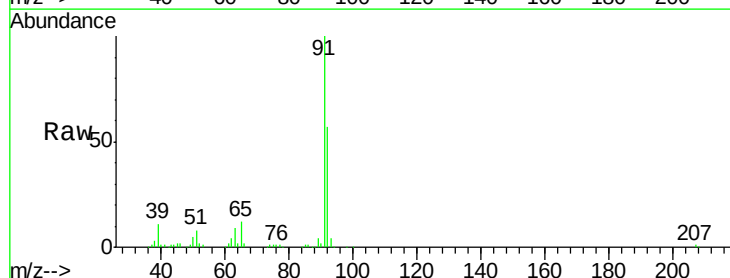
Acq: 18 Dec 2019 18:38

Tgt Ion: 92 Resp: 138399

Ion Ratio Lower Upper

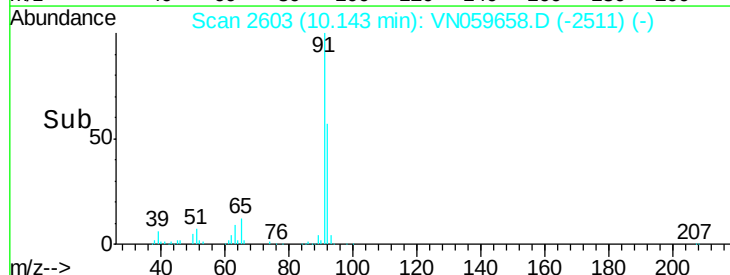
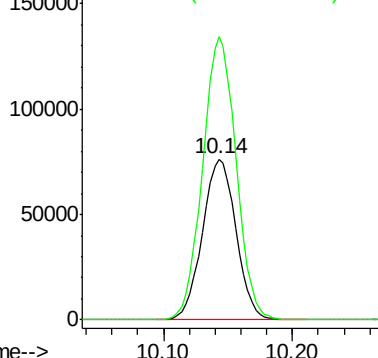
92 100

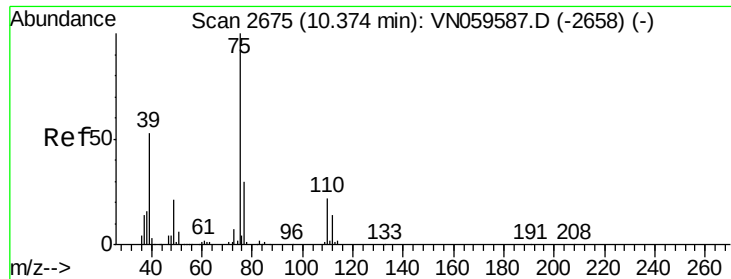
91 175.1 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





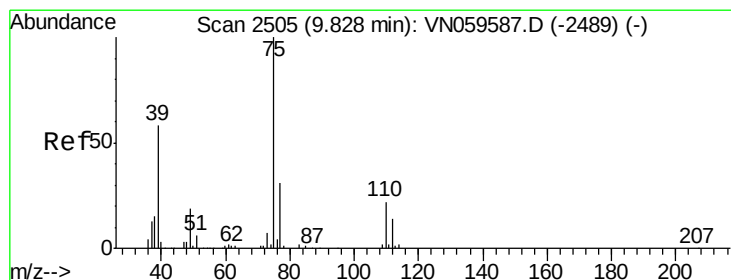
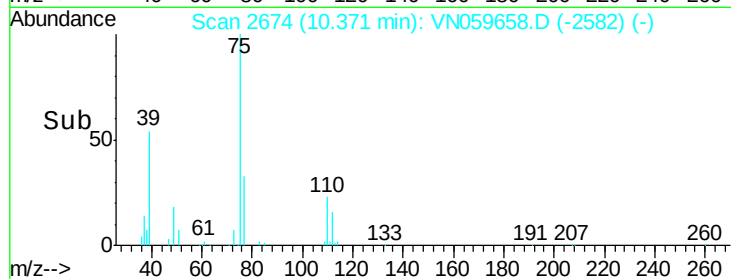
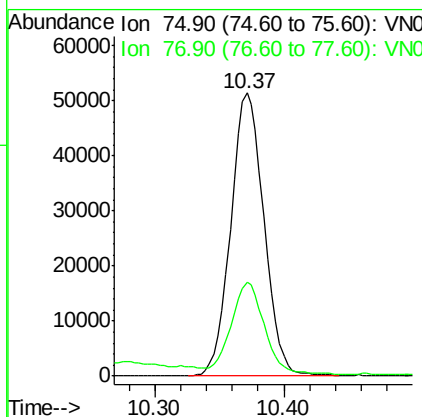
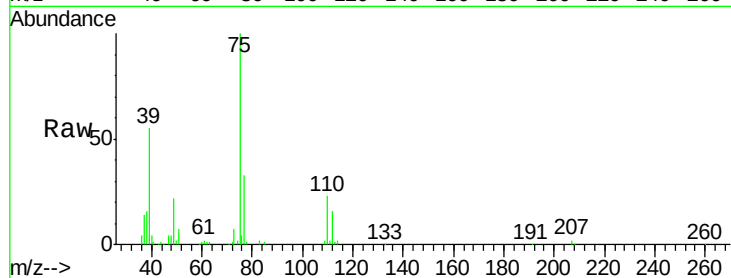
#53
t-1,3-Dichloropropene
Concen: 19.342 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2

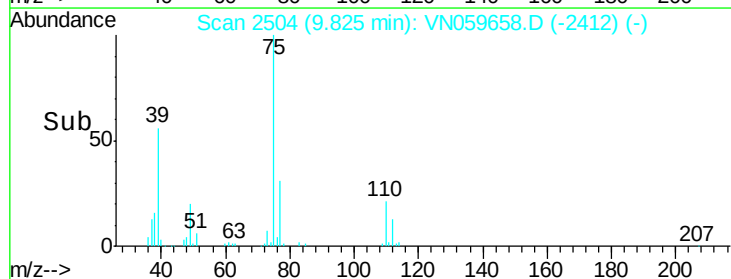
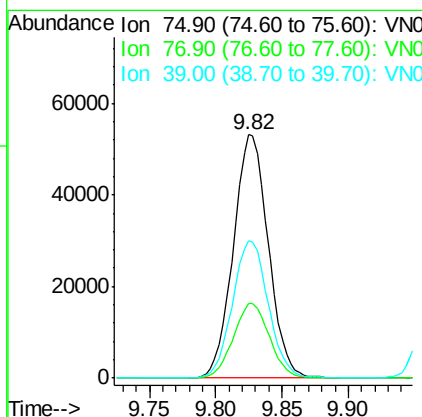
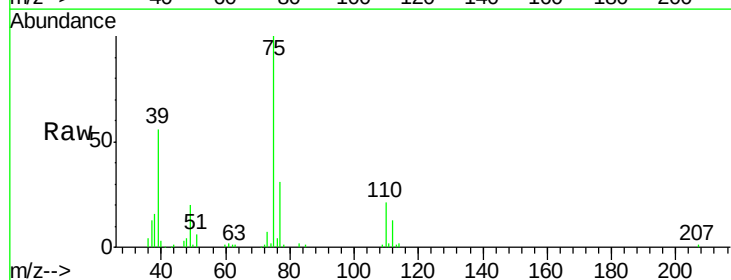
Manual Integrations
APPROVED

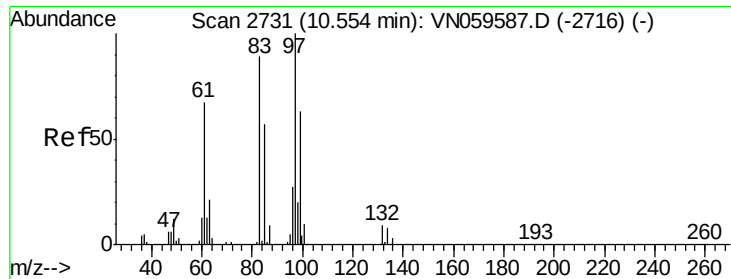
MMDadoda
12/19/2019 11:12:12 AM



#54
cis-1,3-Dichloropropene
Concen: 19.587 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.1	37.7
39	56.3	46.1	69.1





#55

1,1,2-Trichloroethane

Concen: 19.720 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

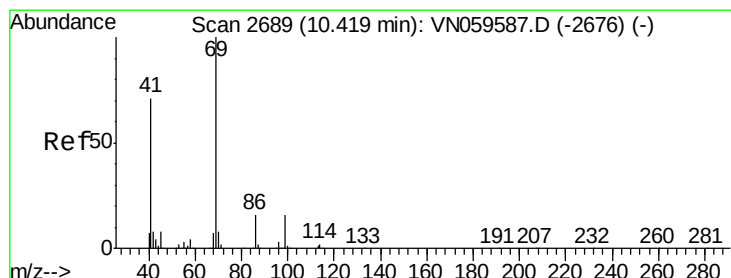
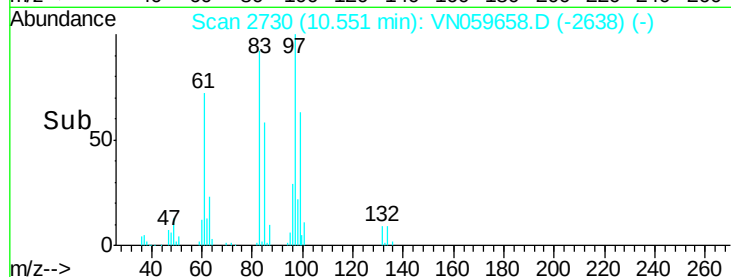
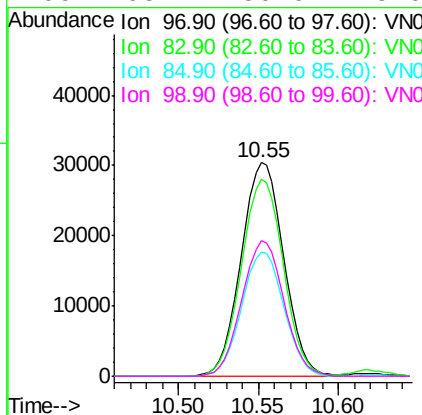
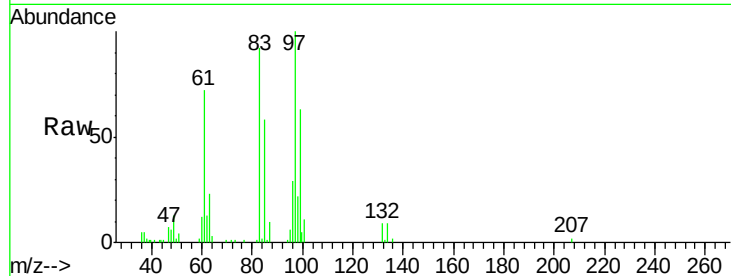
ClientSampleId :

VN1218MBSD02

Tot Ion:	97	Resp:	55271
Ion	Ratio	Lower	Upper
97	100		
83	92.4	71.3	106.9
85	58.3	45.8	68.8
99	63.4	50.0	75.0

Manual Integrations
APPROVED

MMDadoda
12/19/2019 11:12:12 AM



#56

Ethyl methacrylate

Concen: 19.071 ug/l

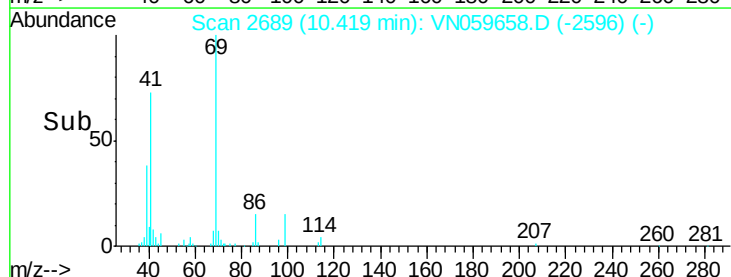
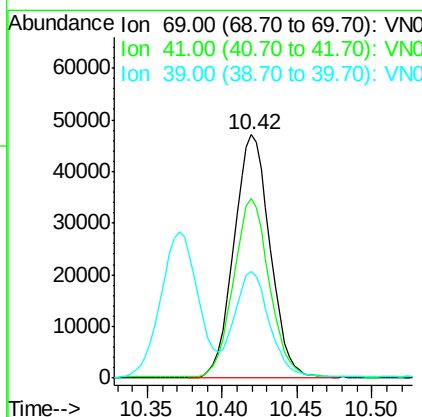
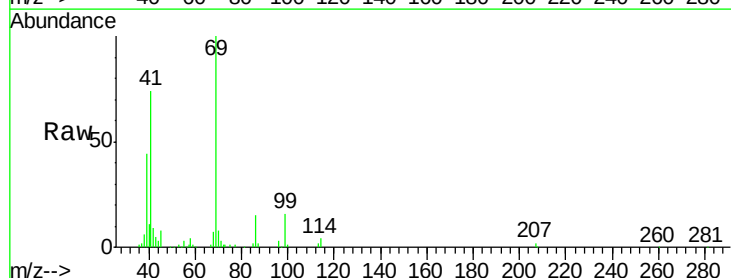
RT: 10.42 min Scan# 2689

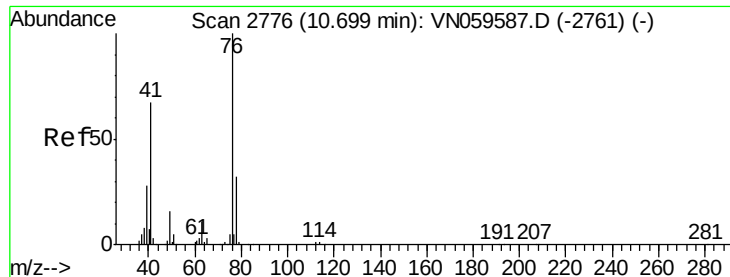
Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	69	Resp:	79355
Ion	Ratio	Lower	Upper
69	100		
41	72.8	57.1	85.7
39	42.7	34.7	52.1





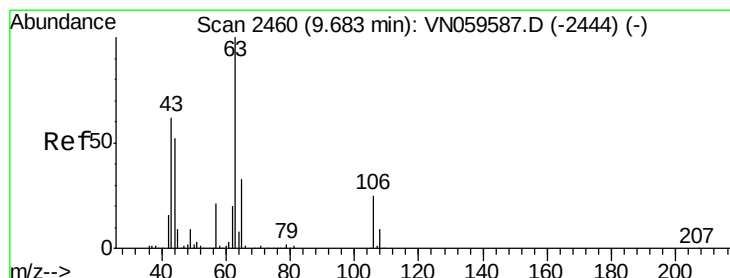
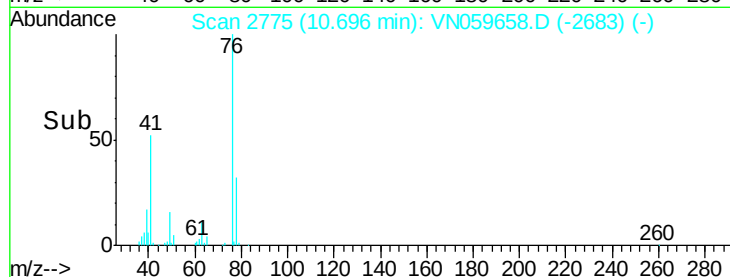
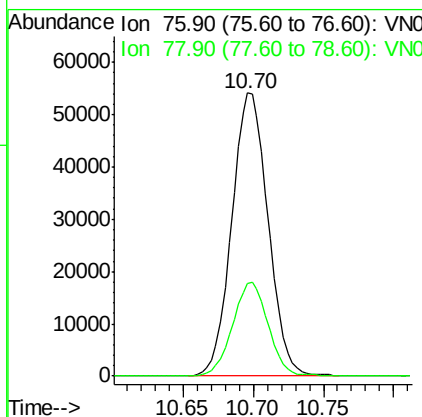
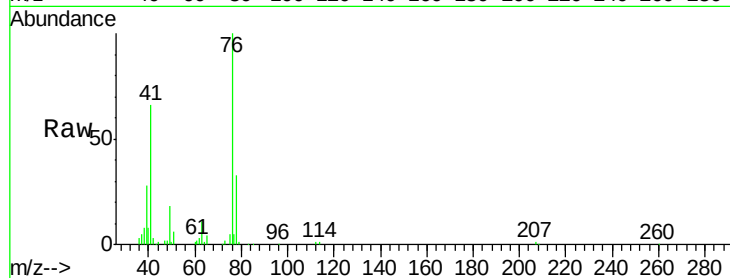
#57
 1,3-Dichloropropane
 Concen: 19.998 ug/l
 RT: 10.70 min Scan# 2775
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

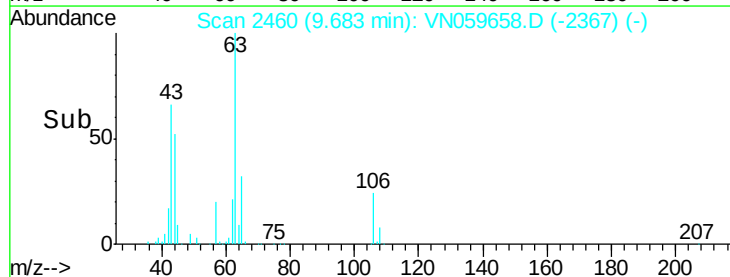
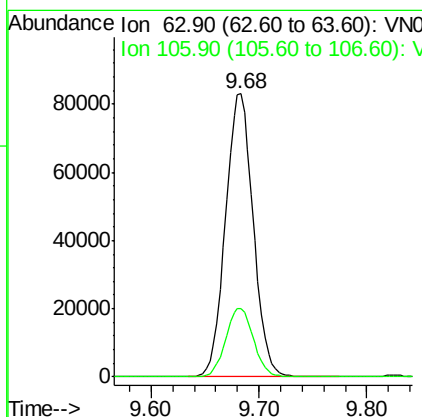
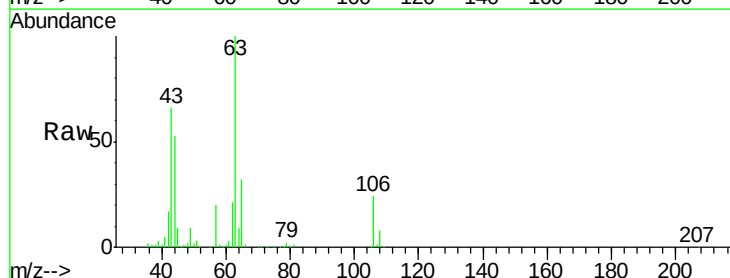
Manual Integrations
 APPROVED

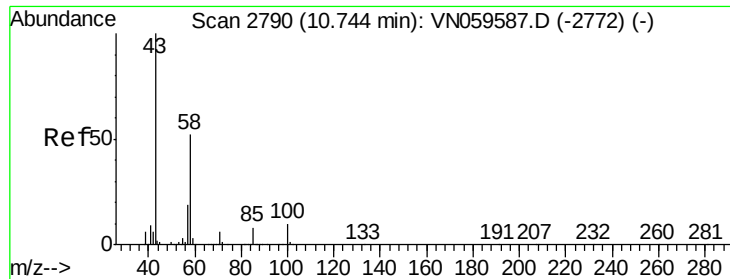
MMDadoda
 12/19/2019 11:12:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 112.440 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.3	20.2	30.2





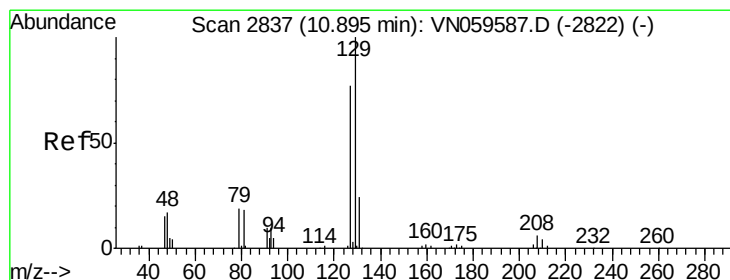
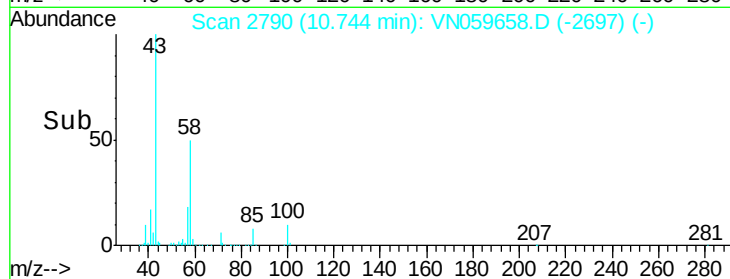
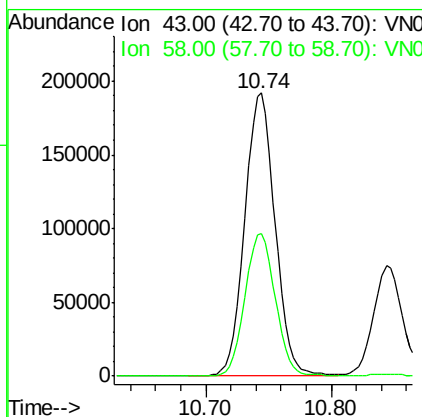
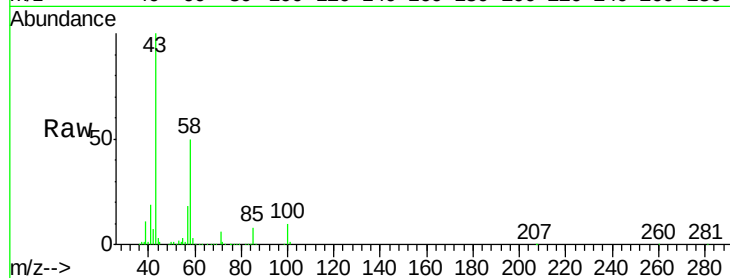
#59
2-Hexanone
Concen: 95.252 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion: 43 Resp: 321734
Ion Ratio Lower Upper
43 100
58 50.4 25.8 77.3

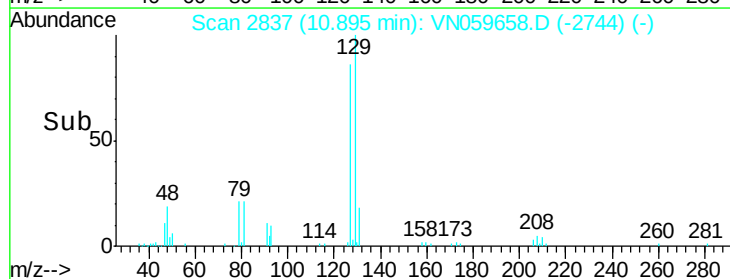
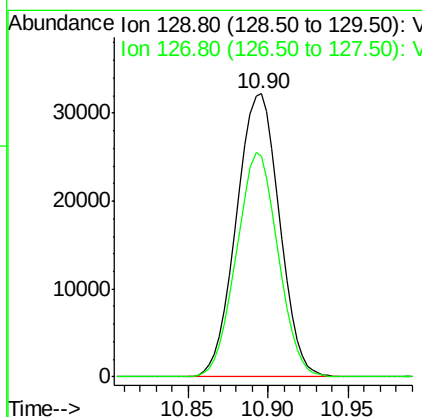
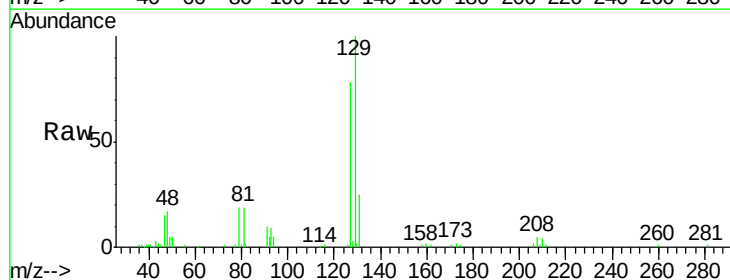
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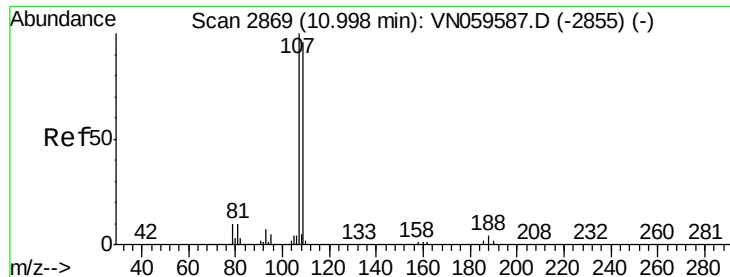
MMDadoda
12/19/2019 11:12:12 AM



#60
Dibromochloromethane
Concen: 19.393 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion: 129 Resp: 59326
Ion Ratio Lower Upper
129 100
127 76.3 38.5 115.5





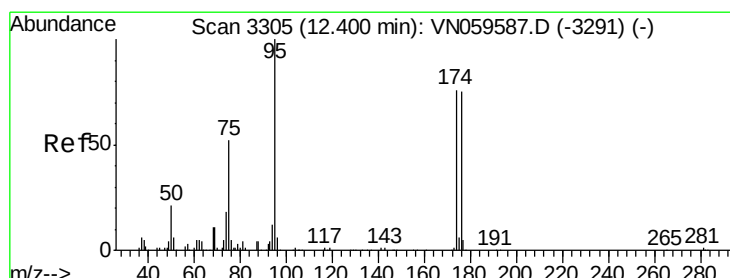
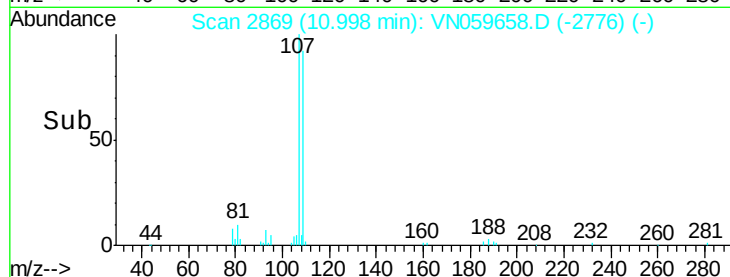
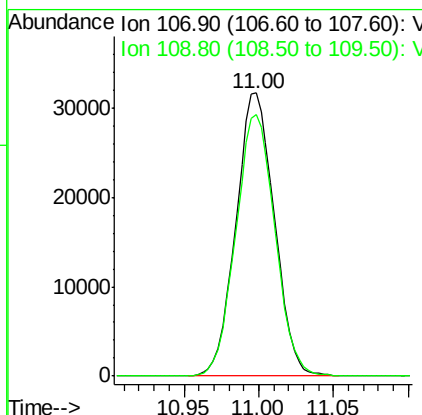
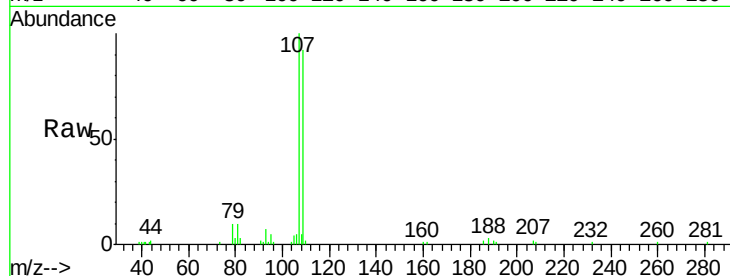
#61
 1,2-Dibromoethane
 Concen: 19.036 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.6	115.0

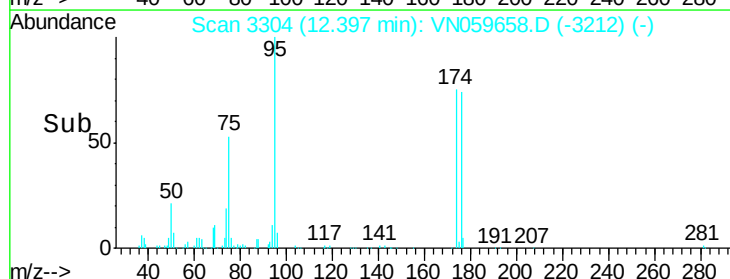
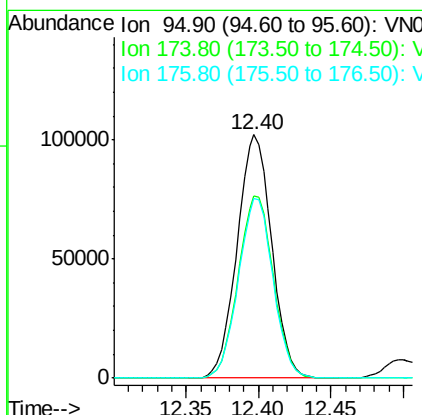
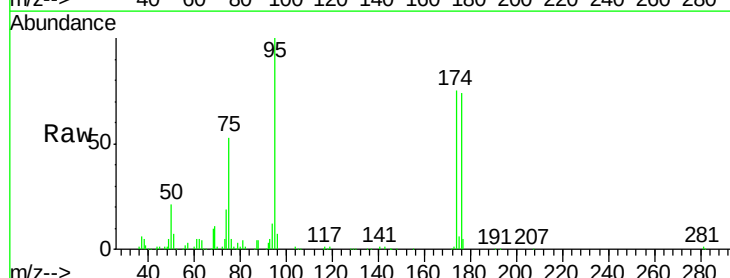
Manual Integrations
 APPROVED

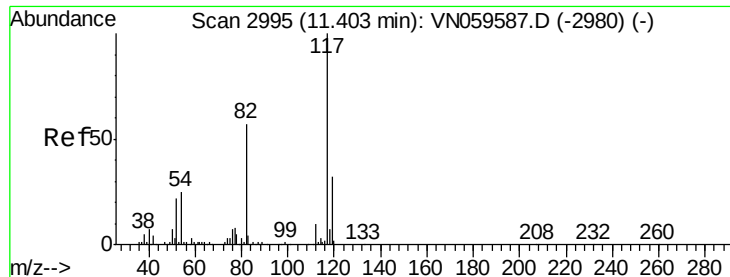
MMDadoda
 12/19/2019 11:12:12 AM



#62
 4-Bromofluorobenzene
 Concen: 49.004 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	151.4
176	73.9	0.0	146.0





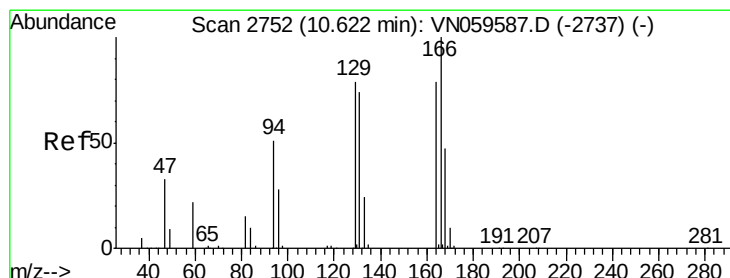
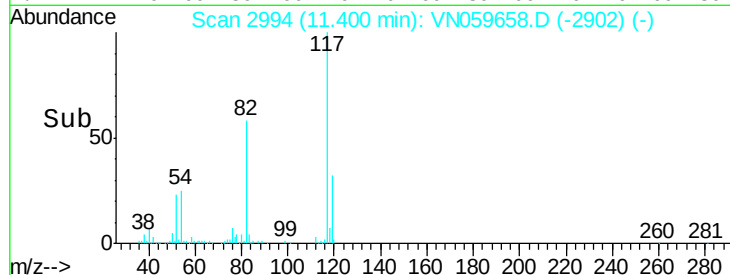
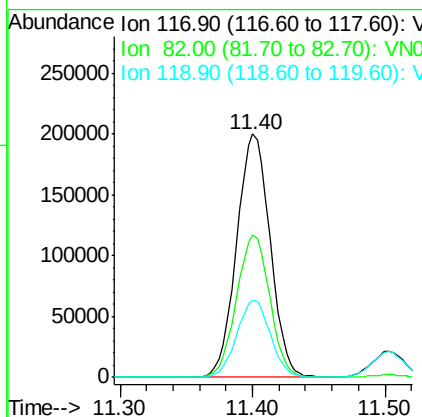
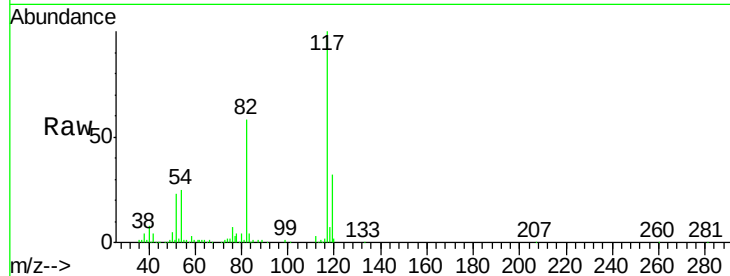
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	350335		
82	58.3		45.9	68.9
119	31.8		25.5	38.3

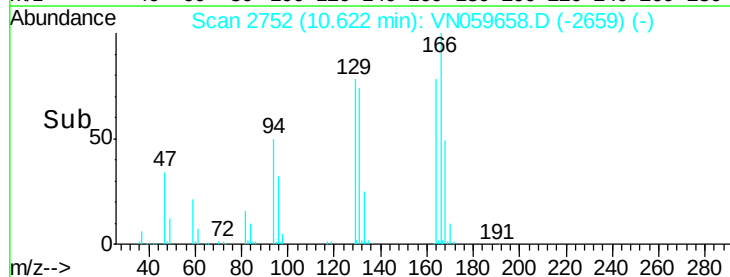
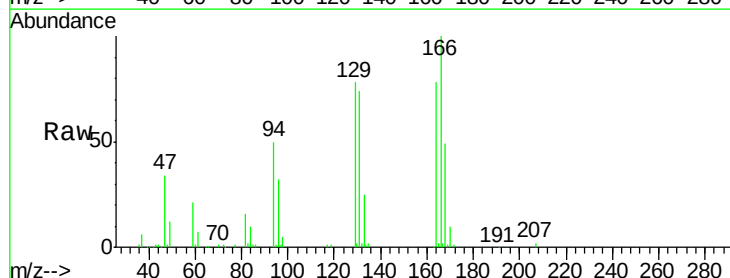
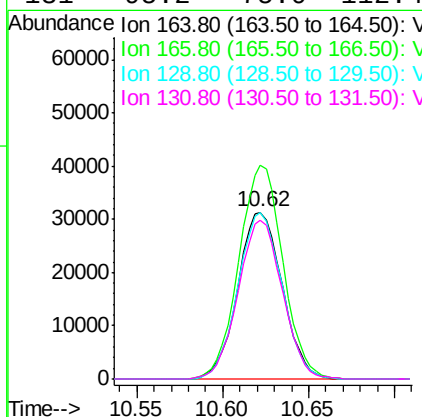
Manual Integrations
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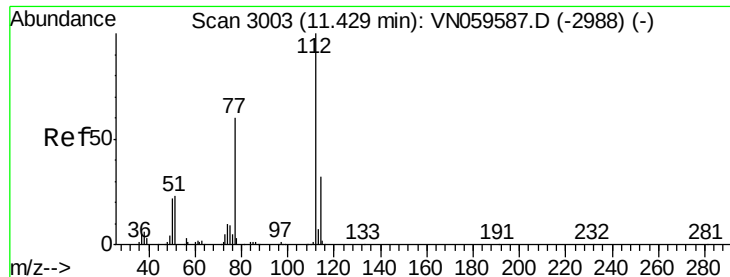
MMDadoda
12/19/2019 11:12:12 AM



#64
Tetrachloroethene
Concen: 17.224 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	56251		
166	127.9		101.4	152.0
129	99.6		80.2	120.4
131	95.2		75.0	112.4





#65

Chlorobenzene

Concen: 19.158 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion:112 Resp: 145224

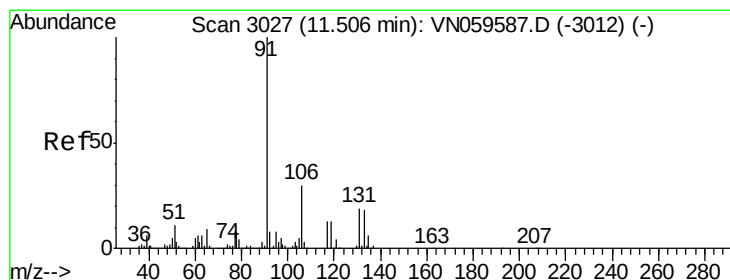
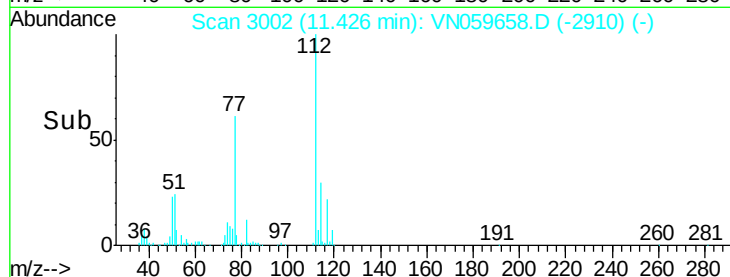
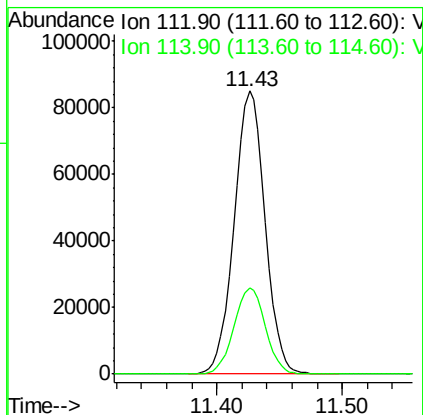
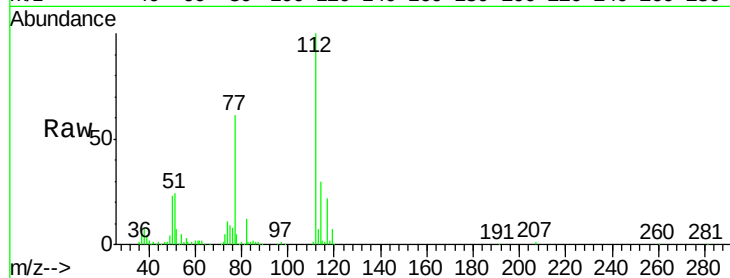
Ion Ratio Lower Upper

112 100

114 30.3 25.8 38.8

Manual Integrations
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MMDadoda
12/19/2019 11:12:12 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 19.039 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

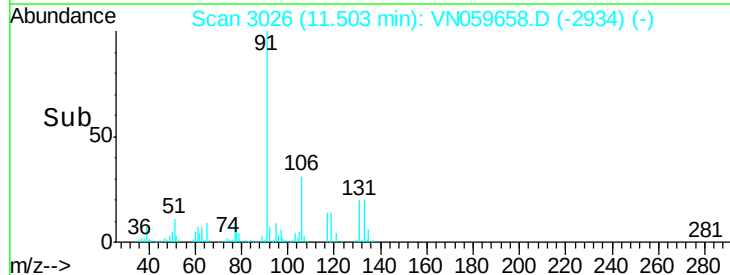
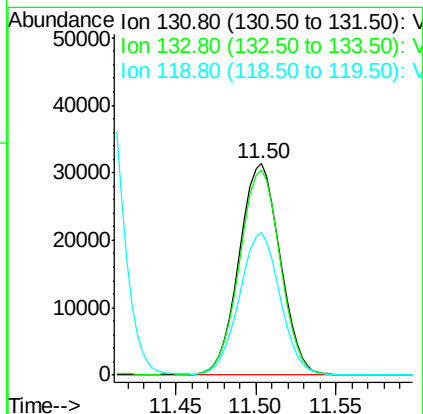
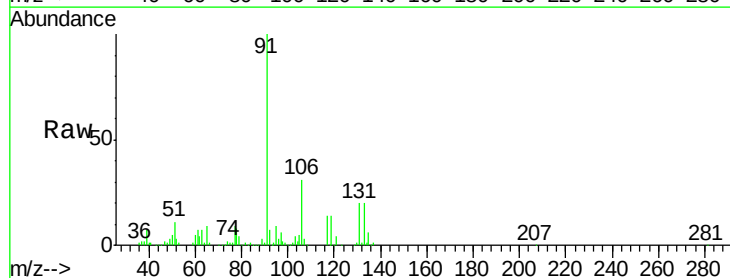
Tgt Ion:131 Resp: 54818

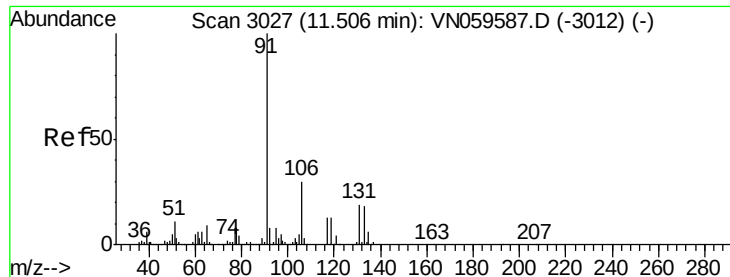
Ion Ratio Lower Upper

131 100

133 96.6 47.4 142.2

119 67.0 33.1 99.3





#67

Ethyl Benzene

Concen: 19.203 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion: 91 Resp: 262760

Ion Ratio Lower Upper

91 100

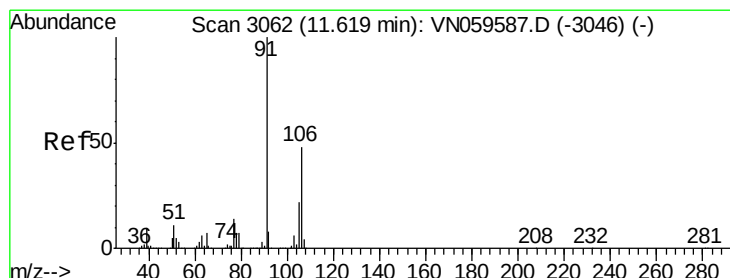
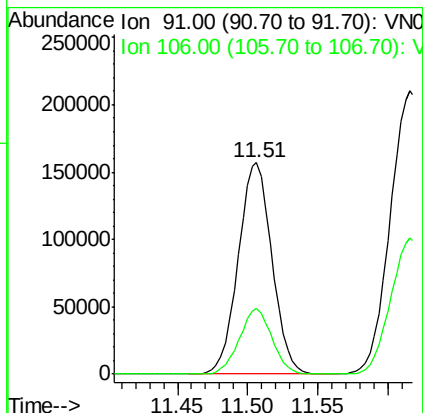
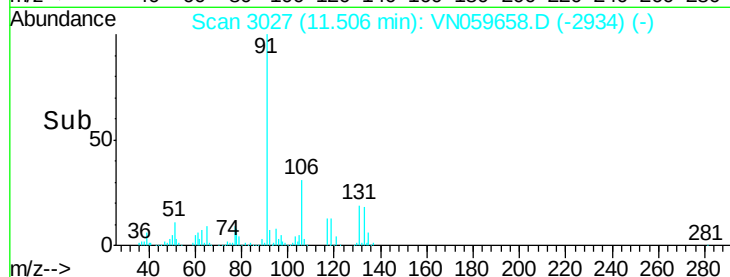
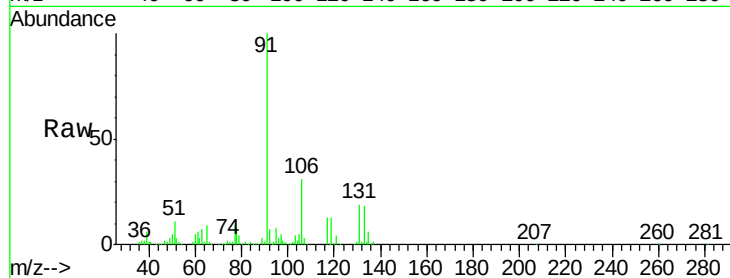
106 31.0 24.1 36.1

Manual Integrations

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#68

m/p-Xylenes

Concen: 38.348 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059658.D

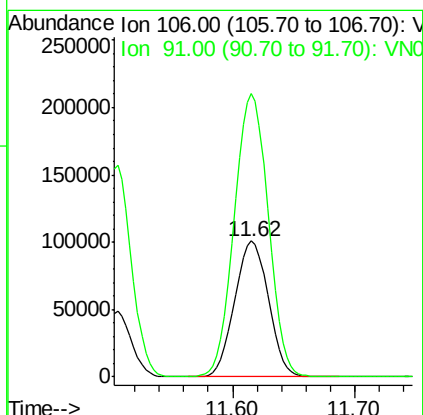
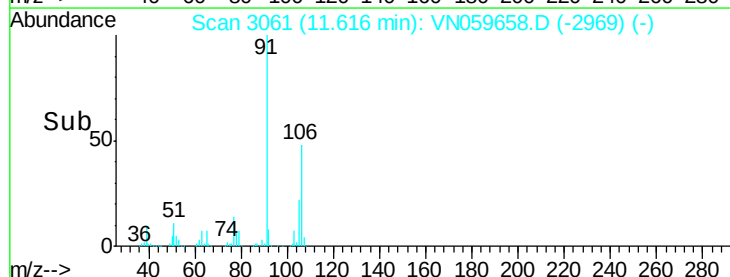
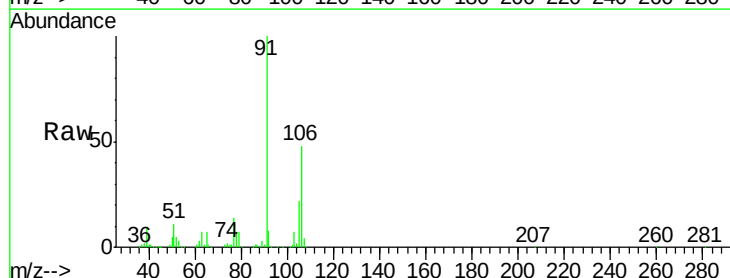
Acq: 18 Dec 2019 18:38

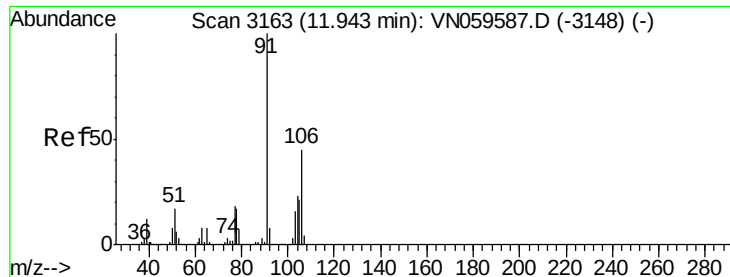
Tgt Ion: 106 Resp: 193759

Ion Ratio Lower Upper

106 100

91 208.9 167.9 251.9





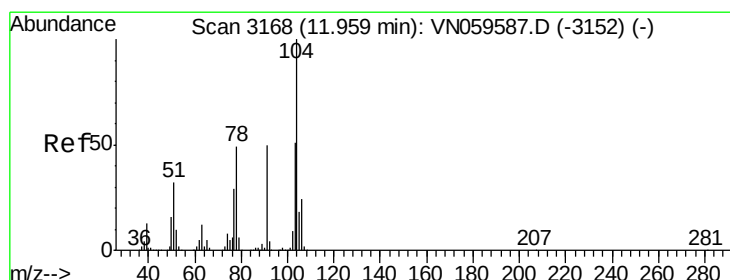
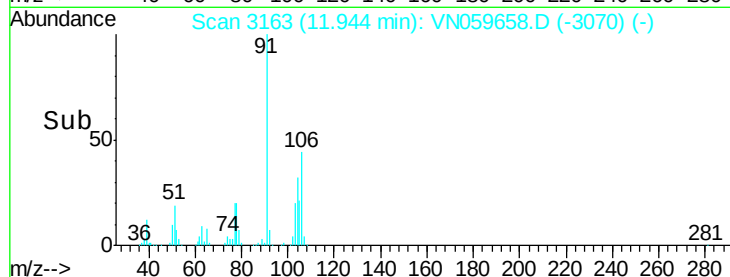
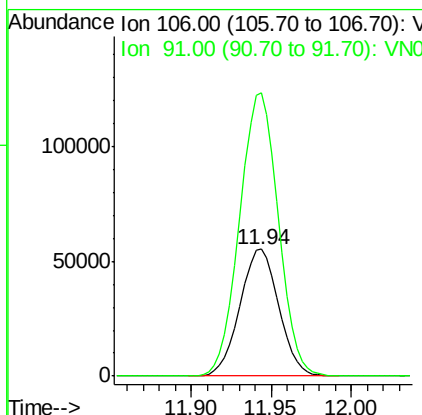
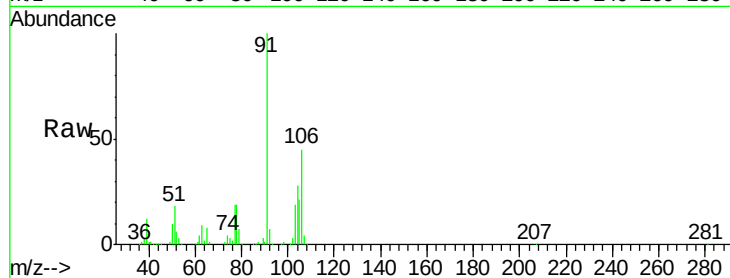
#69
o-Xylene
Concen: 19.082 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion:106 Resp: 91739
Ion Ratio Lower Upper
106 100
91 222.3 110.3 330.9

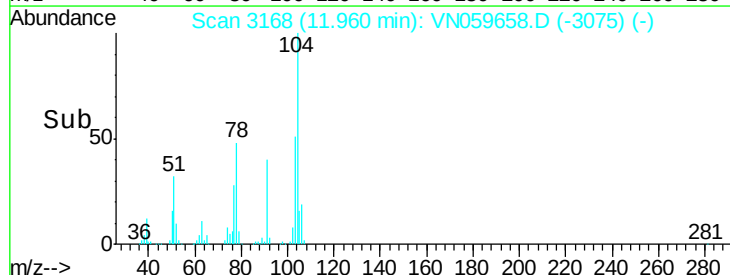
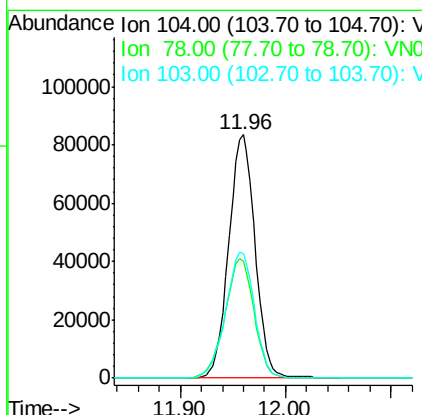
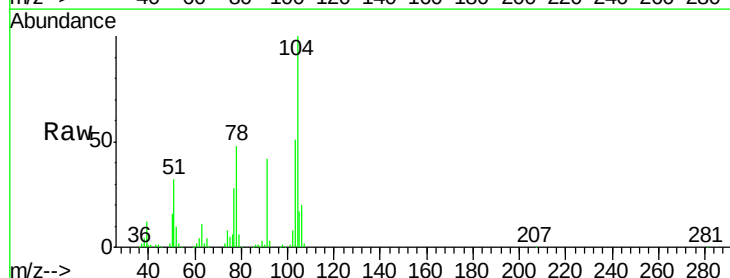
Manual Integrations
APPROVED

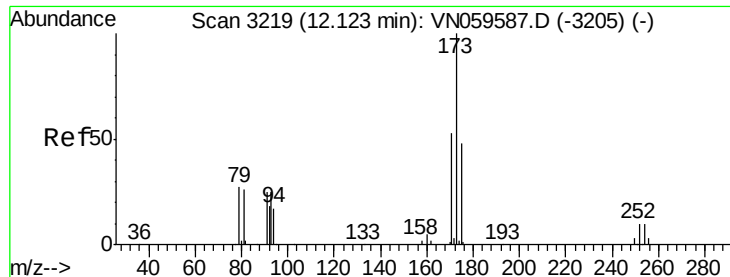
MMDadoda
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#70
Styrene
Concen: 18.686 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion:104 Resp: 144335
Ion Ratio Lower Upper
104 100
78 53.9 42.4 63.6
103 56.7 43.9 65.9





#71

Bromoform

Concen: 19.113 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion:173 Resp: 41368

Ion Ratio Lower Upper

173 100

175 49.3 23.8 71.4

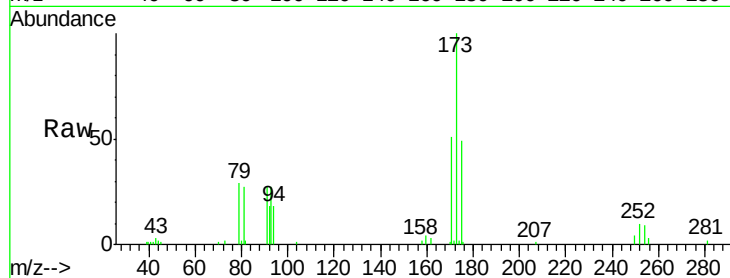
254 0.0 0.0 0.0

Manual Integrations

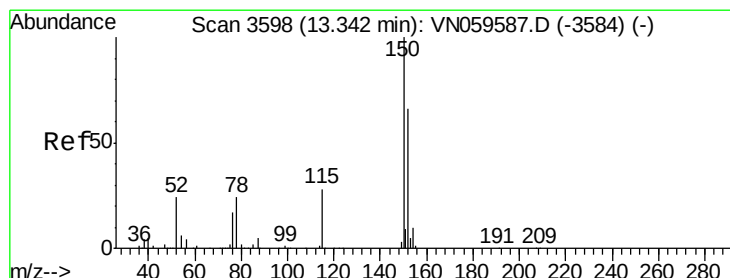
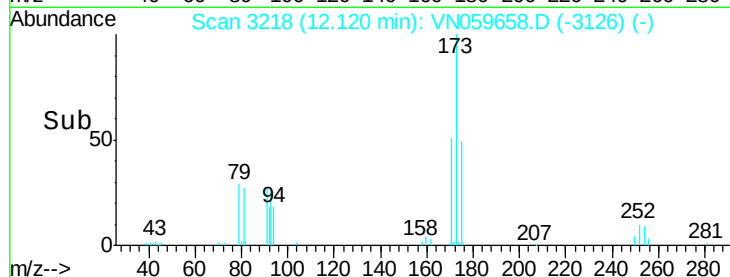
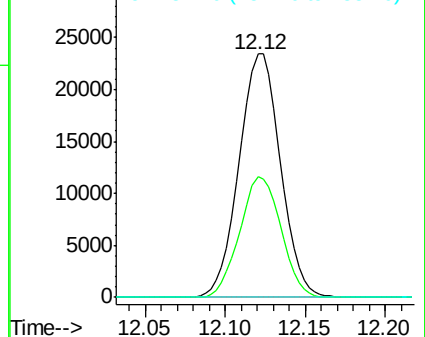
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

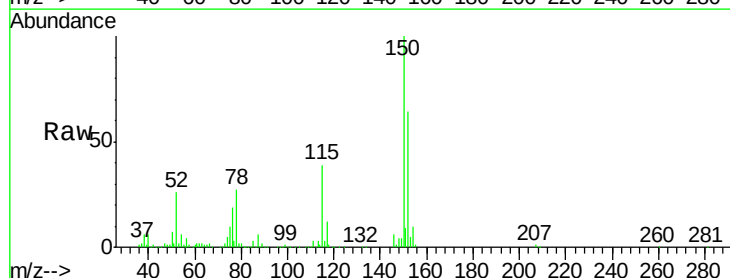
Tgt Ion:152 Resp: 161895

Ion Ratio Lower Upper

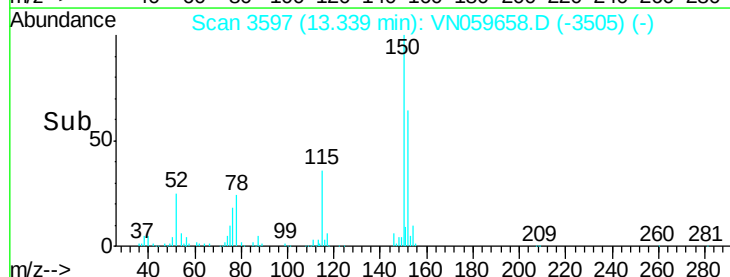
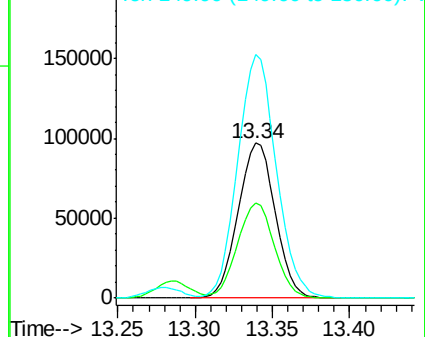
152 100

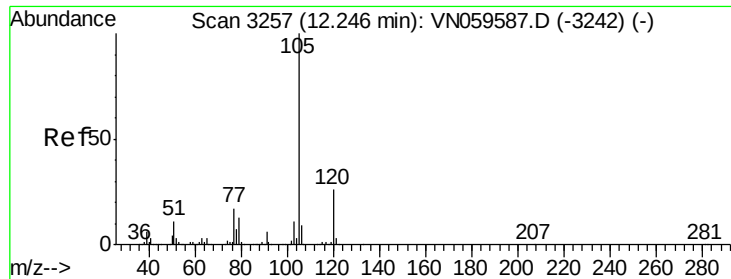
115 61.3 30.3 90.9

150 163.4 0.0 345.2



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





#73

Isopropylbenzene

Concen: 19.674 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion: 105 Resp: 250032

Ion Ratio Lower Upper

105 100

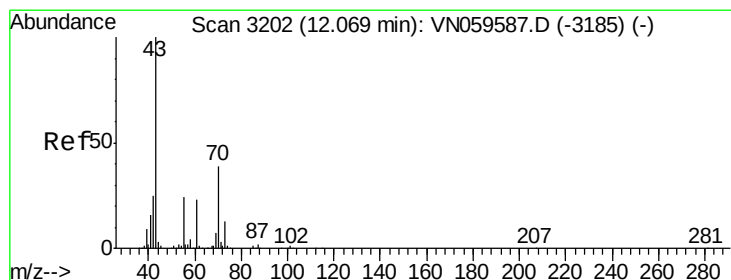
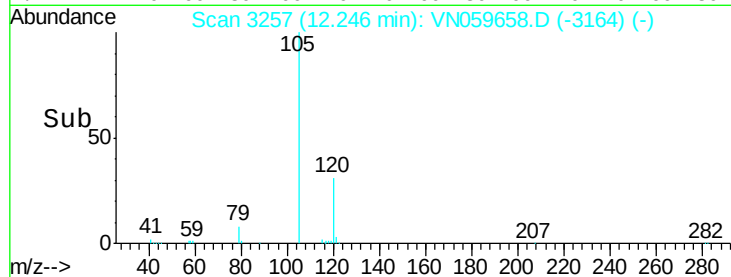
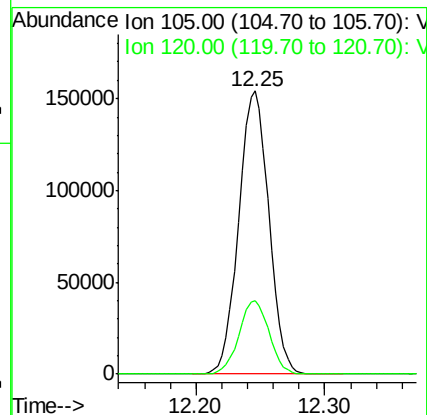
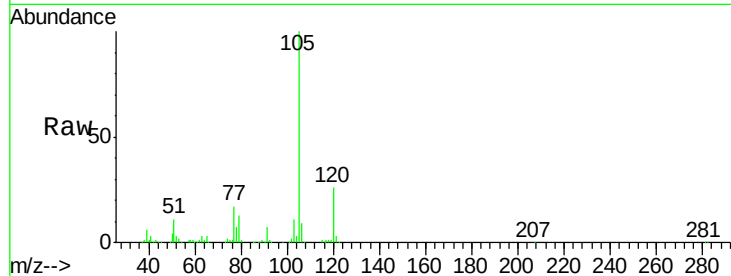
120 25.9 13.2 39.5

Manual Integrations

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#74

N-ethyl acetate

Concen: 19.118 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion: 43 Resp: 111453

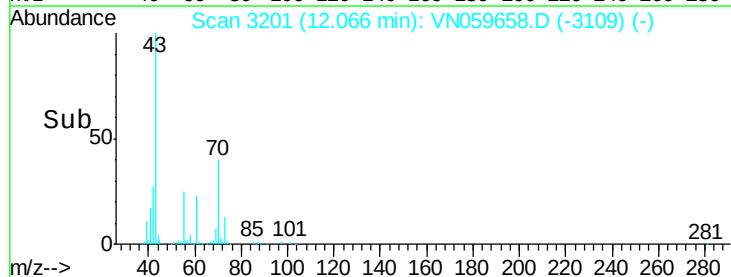
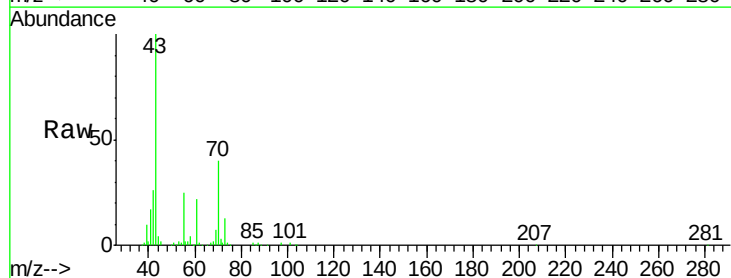
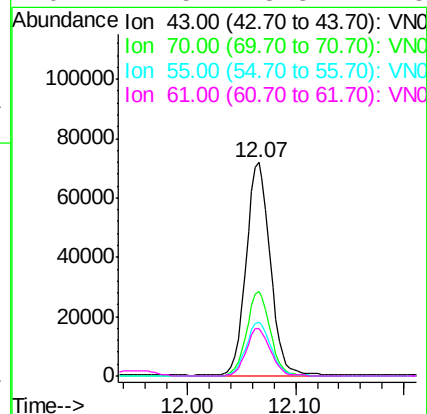
Ion Ratio Lower Upper

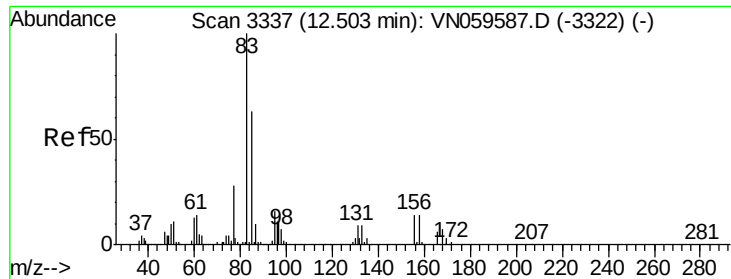
43 100

70 38.8 31.3 46.9

55 26.2 19.8 29.6

61 22.5 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.863 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

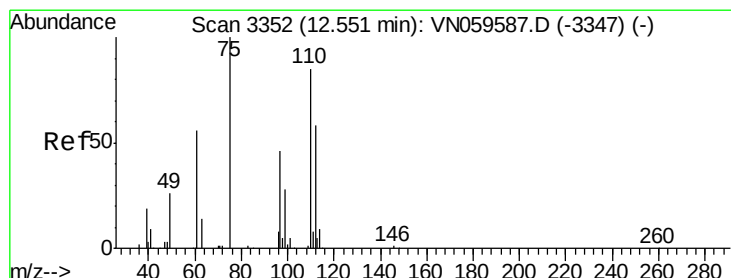
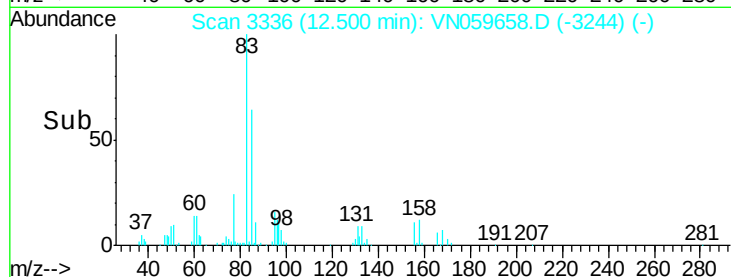
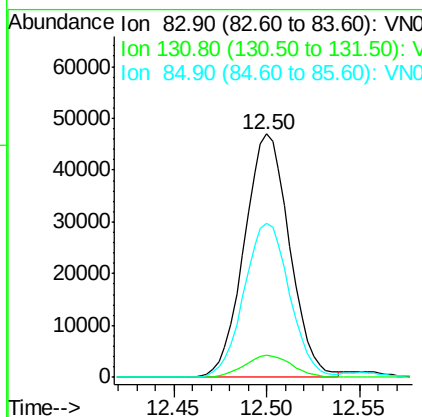
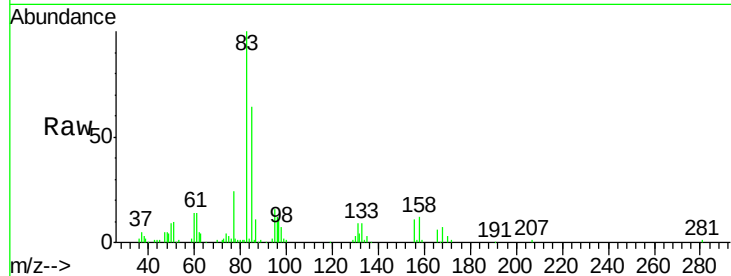
ClientSampleId :

VN1218MBSD02

Tot Ion:	83	Resp:	80075
Ion Ratio	Lower	Upper	
83	100		
131	9.5	5.0	14.9
85	63.7	31.9	95.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.444 ug/l m

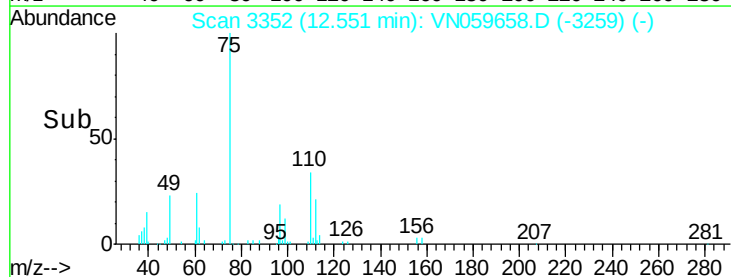
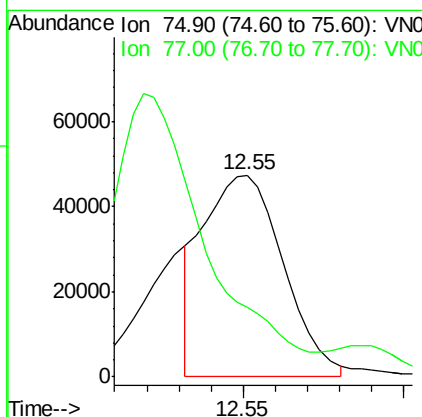
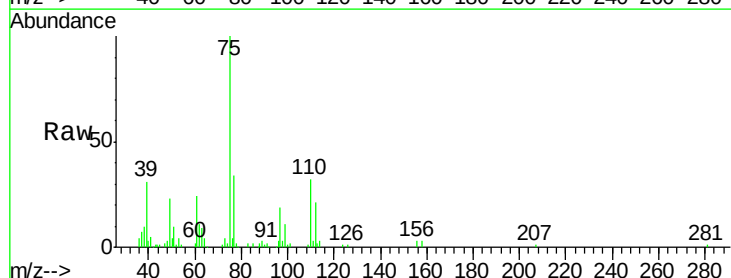
RT: 12.55 min Scan# 3352

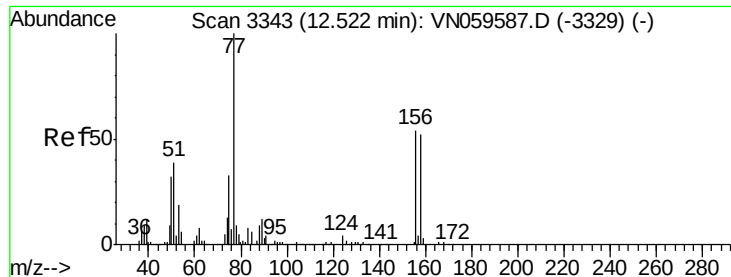
Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	75	Resp:	81937
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.885 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

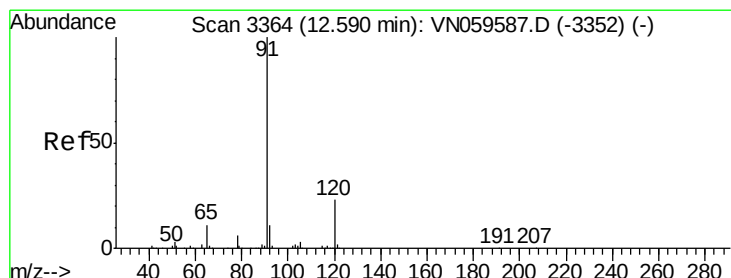
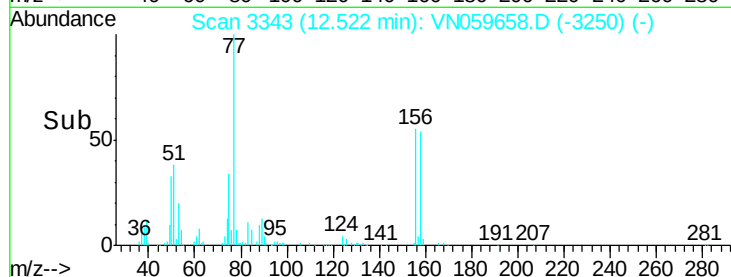
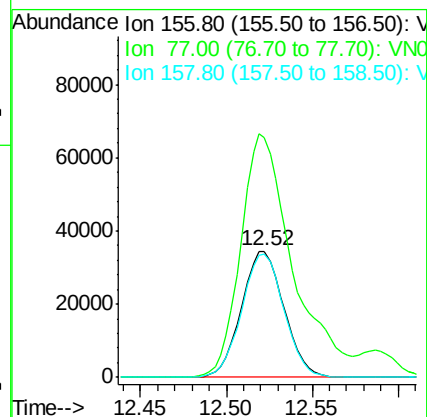
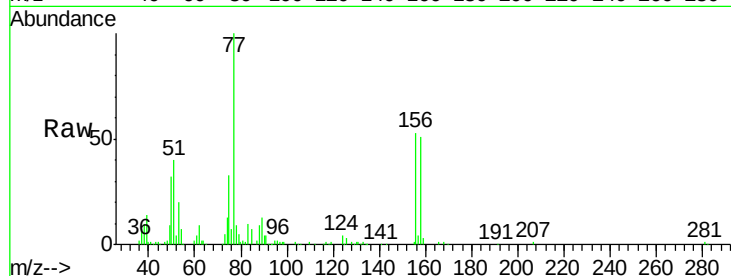
ClientSampleId :

VN1218MBSD02

Tot Ion:	156	Resp:	59024
Ion	Ratio	Lower	Upper
156	100		
77	236.8	115.8	347.4
158	97.5	49.2	147.6

Manual Integrations
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12/19/2019 11:12:12 AM



#78

n-propylbenzene

Concen: 19.664 ug/l

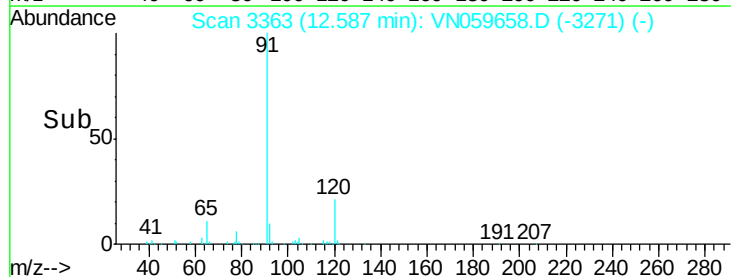
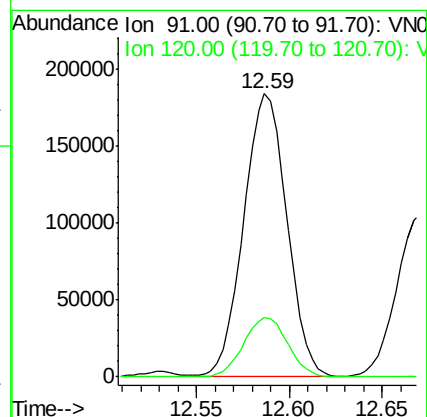
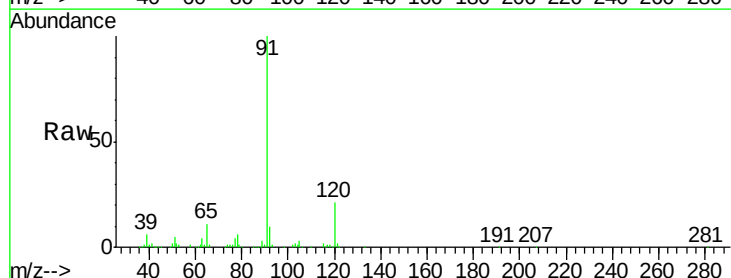
RT: 12.59 min Scan# 3363

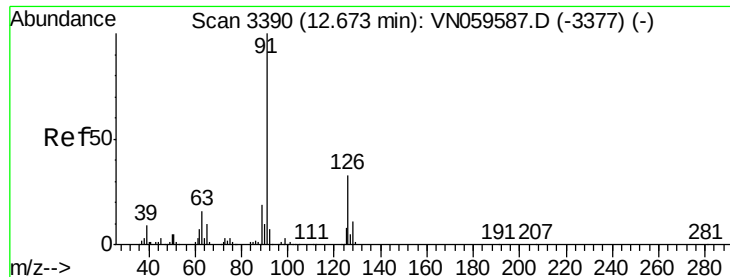
Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Tgt Ion:	91	Resp:	295413
Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3





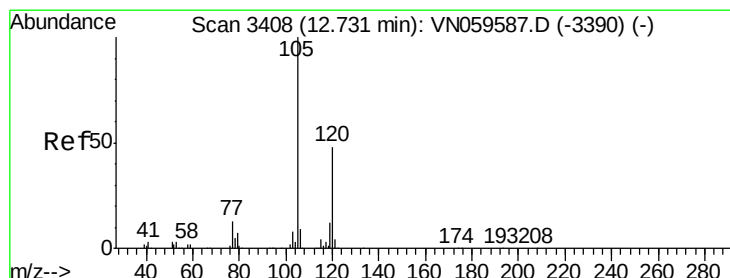
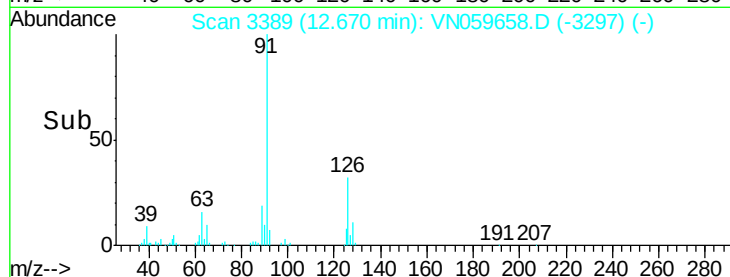
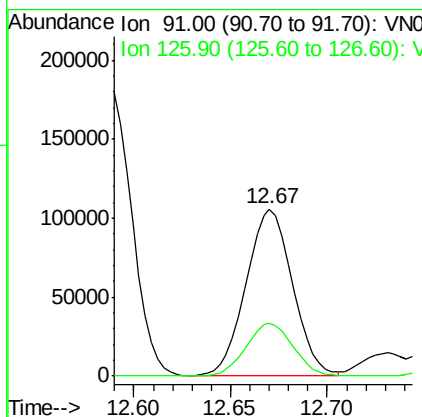
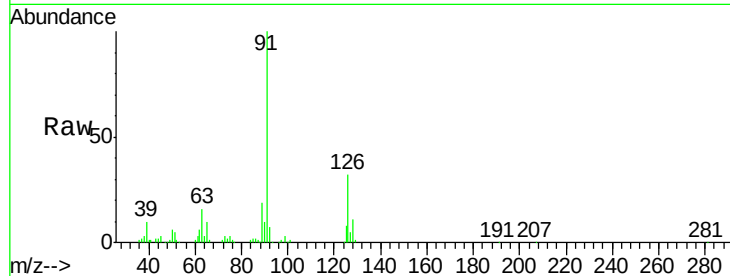
#79
 2-Chlorotoluene
 Concen: 19.409 ug/l
 RT: 12.67 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
126	32.4	16.3	48.9	

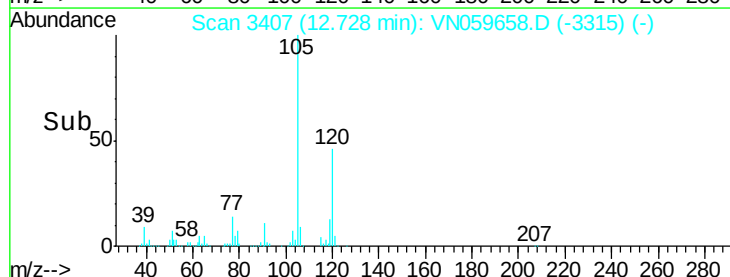
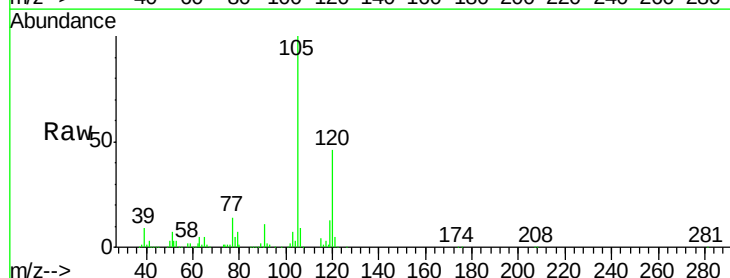
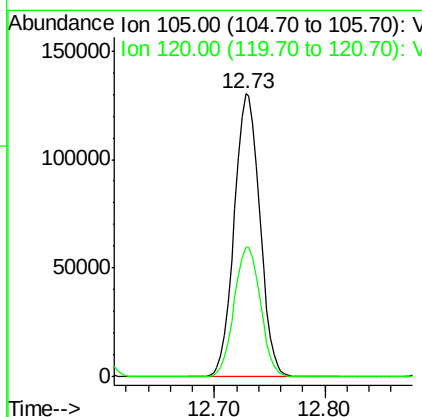
Manual Integrations
 APPROVED

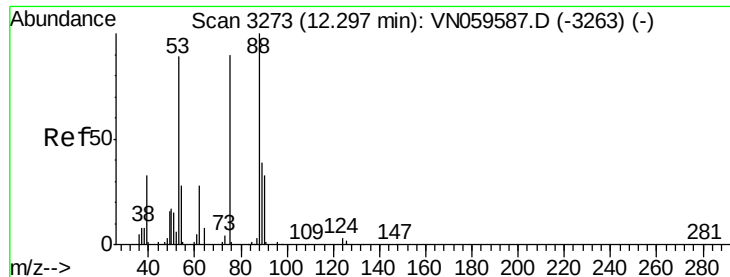
MMDadoda
 12/19/2019 11:12:12 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 19.564 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ion	Ratio	Lower	Upper
105	100			
120	46.9	24.1	72.4	





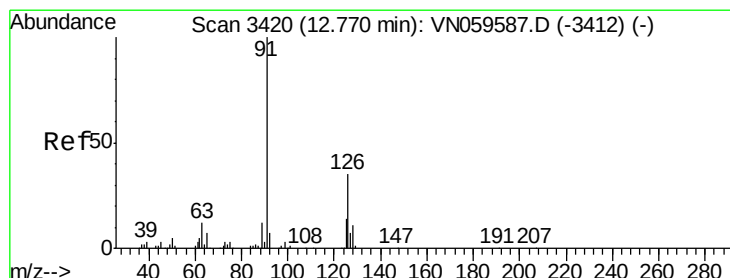
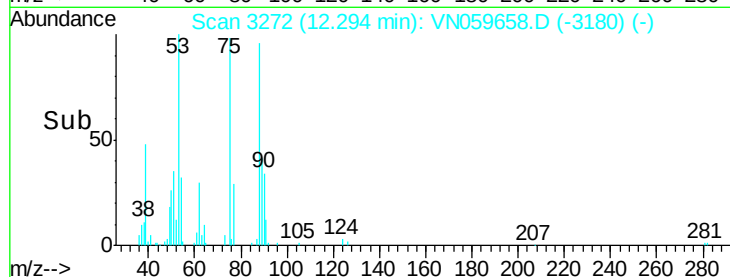
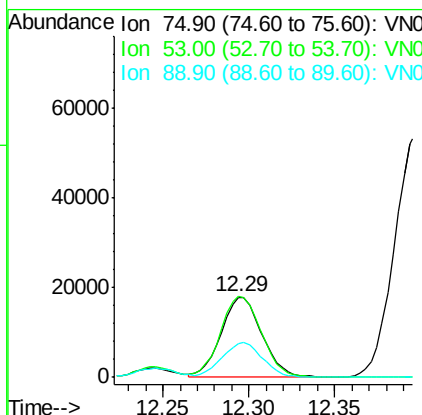
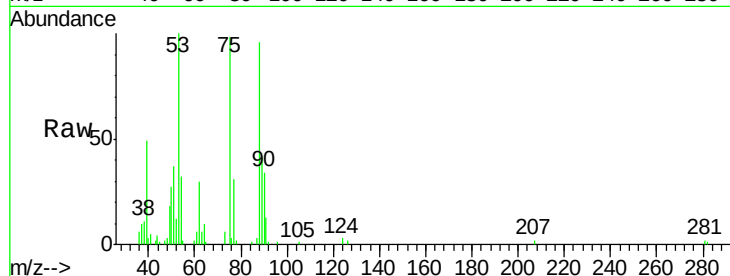
#81
trans-1,4-Dichloro-2-butene
Concen: 18.277 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.7	78.1	117.1
89	42.6	35.4	53.2

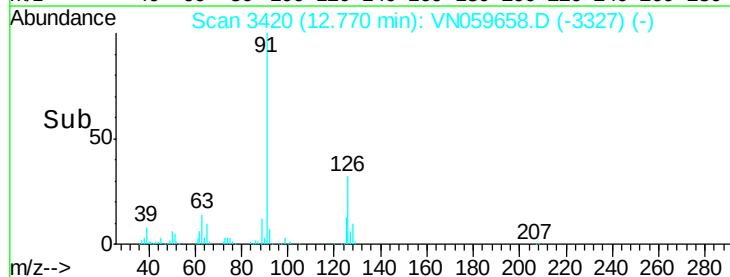
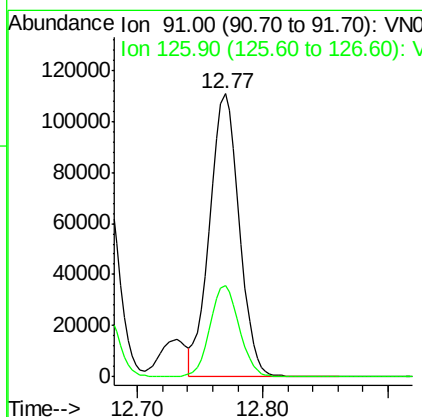
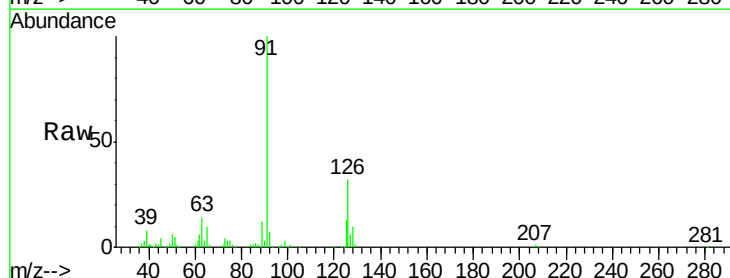
Manual Integrations
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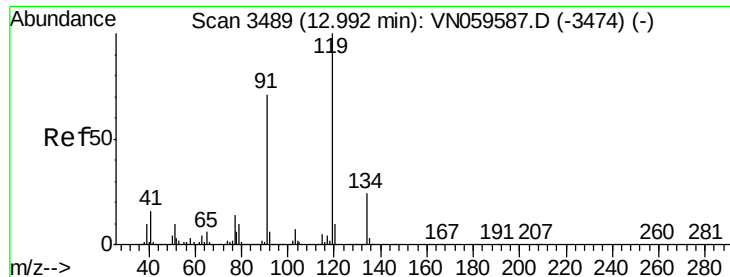
MMDadoda
12/19/2019 11:12:12 AM



#82
4-Chlorotoluene
Concen: 19.554 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.3	48.8





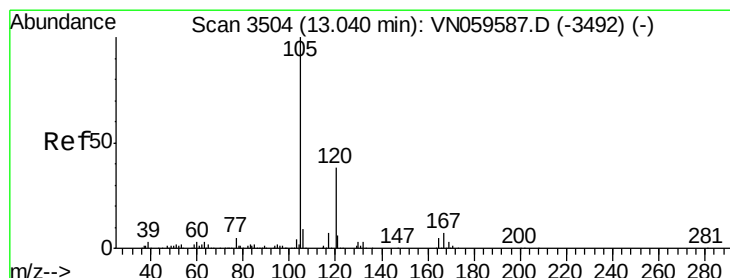
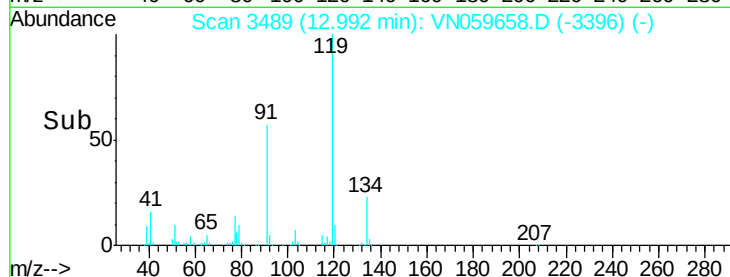
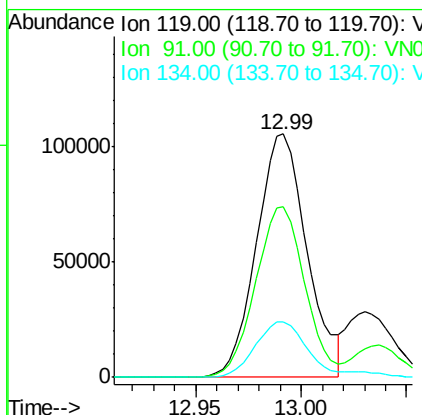
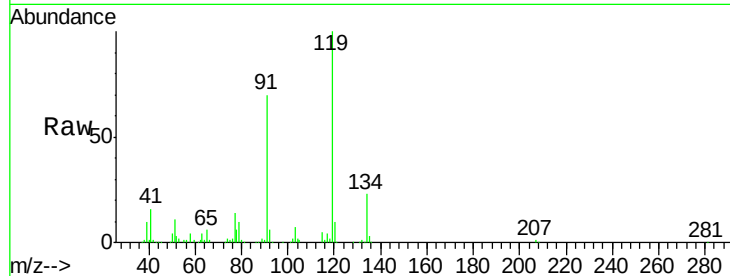
#83
 tert-Butylbenzene
 Concen: 19.294 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.5	34.8	104.4
134	23.3	12.3	36.9

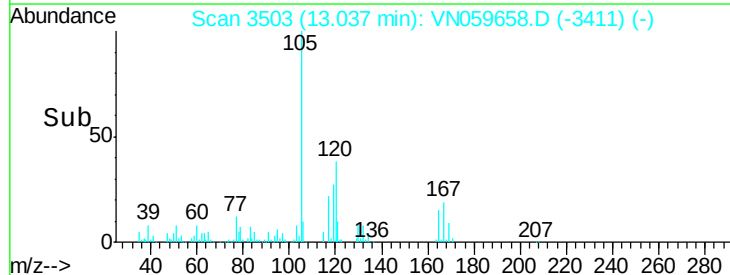
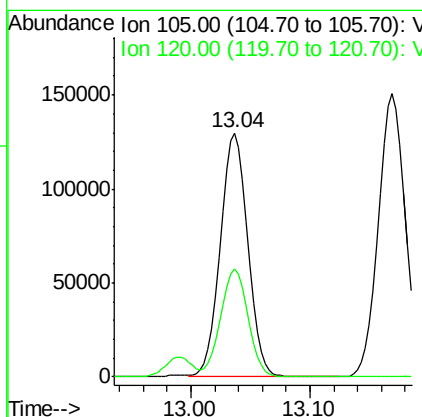
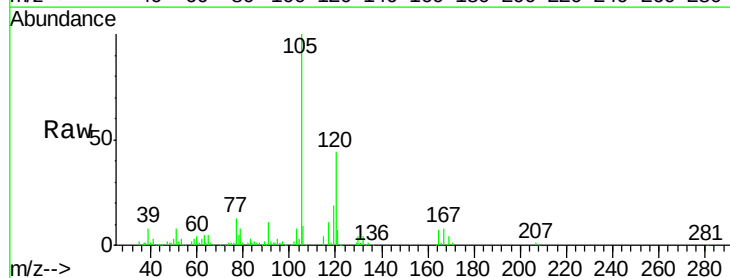
Manual Integrations
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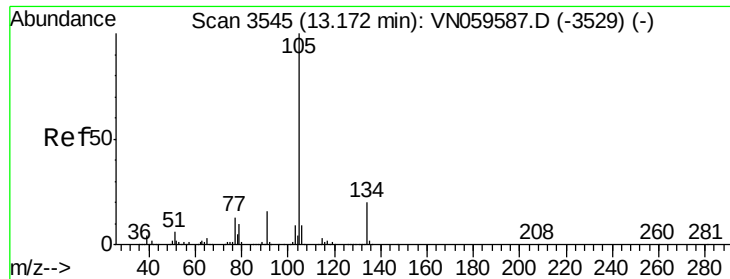
MMDadoda
 12/19/2019 11:12:12 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.435 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.3	66.9





#85

sec-Butylbenzene

Concen: 19.569 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

Instrument :

MSVOA_N

ClientSampleId :

VN1218MBSD02

Tot Ion:105 Resp: 237090

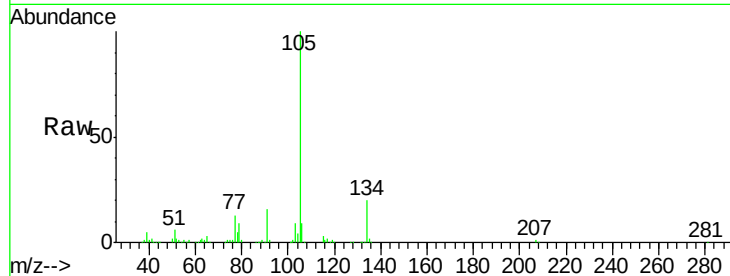
Ion Ratio Lower Upper

105 100

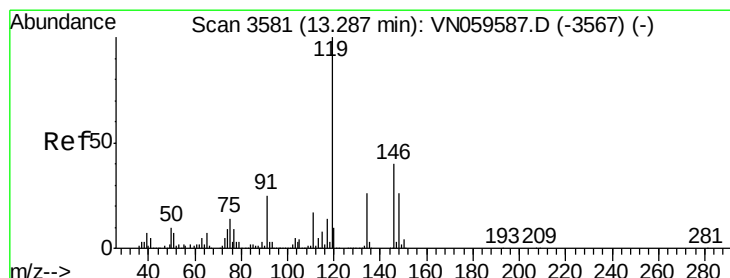
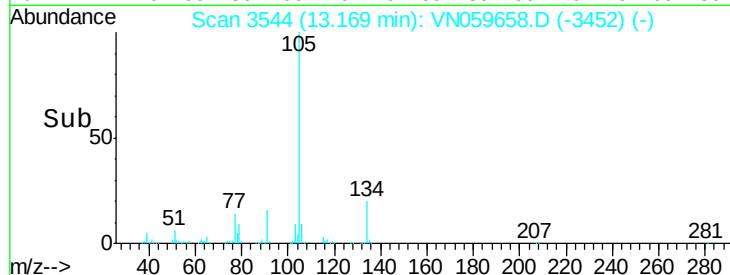
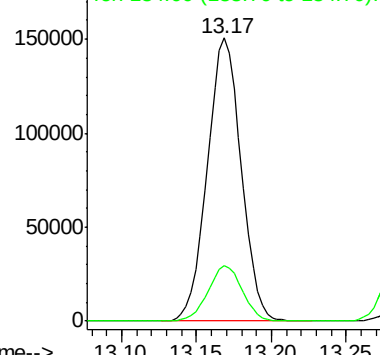
134 19.7 9.8 29.5

Manual Integrations
APPROVED

MMDadoda
12/19/2019 11:12:12 AM



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.170 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN059658.D

Acq: 18 Dec 2019 18:38

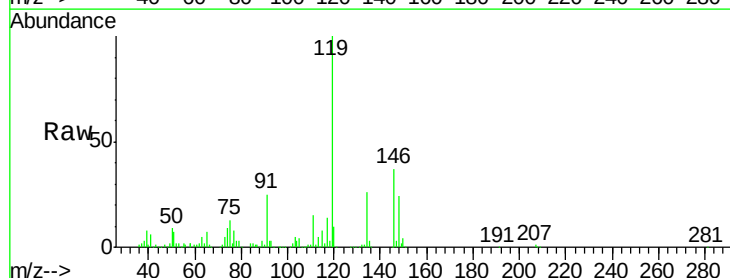
Tgt Ion:119 Resp: 210351

Ion Ratio Lower Upper

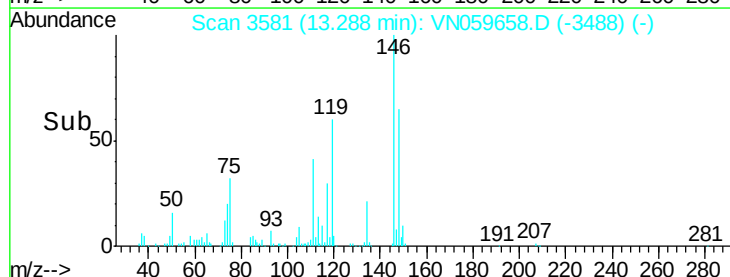
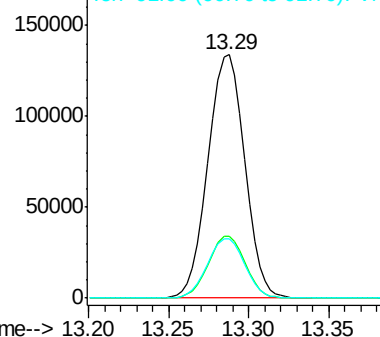
119 100

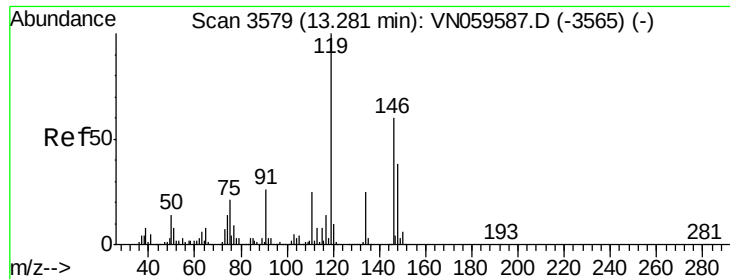
134 25.5 12.9 38.7

91 25.0 12.4 37.4



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





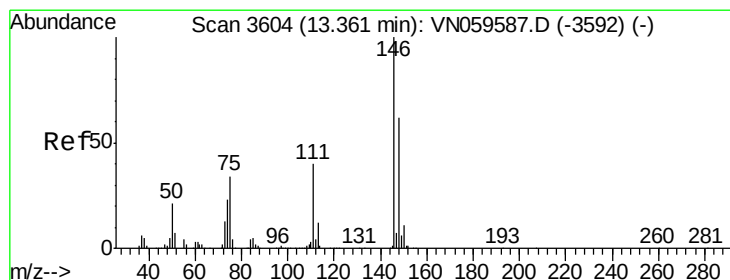
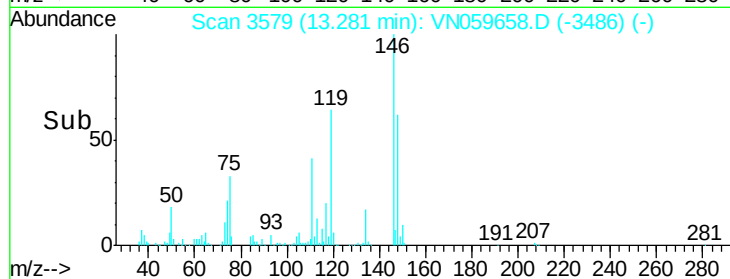
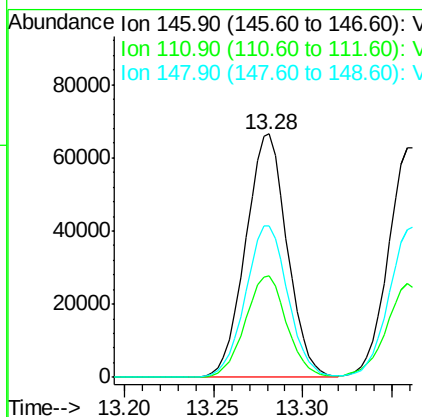
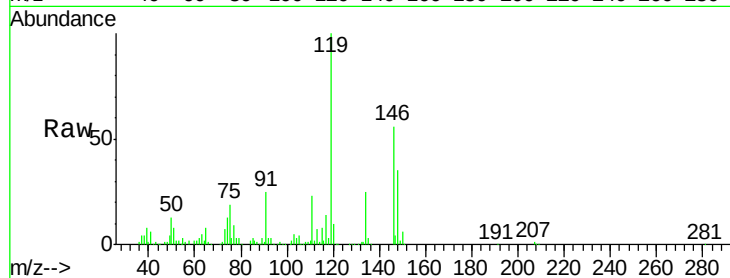
#87
 1,3-Dichlorobenzene
 Concen: 18.810 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.8	62.2
148	63.4	32.0	96.0

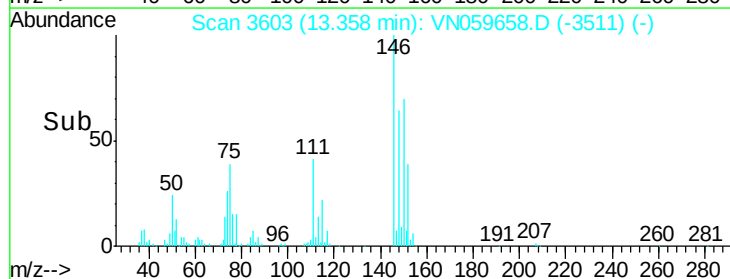
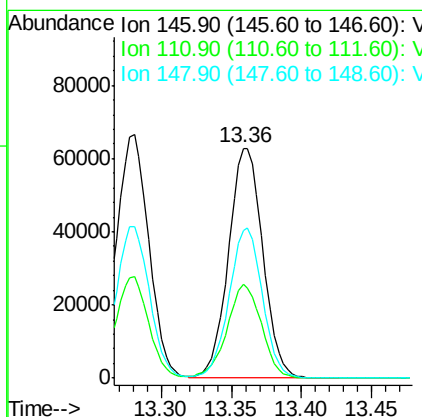
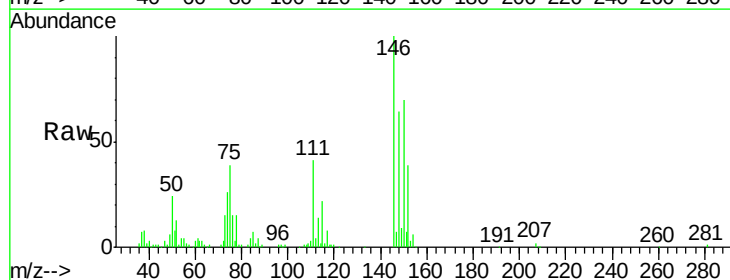
Manual Integrations
 APPROVED

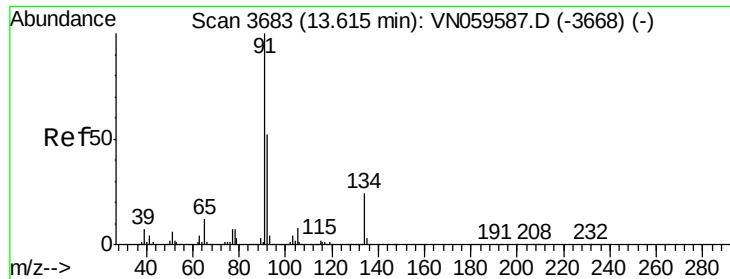
MMDadoda
 12/19/2019 11:12:12 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.449 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.8	62.2
148	63.6	31.8	95.4





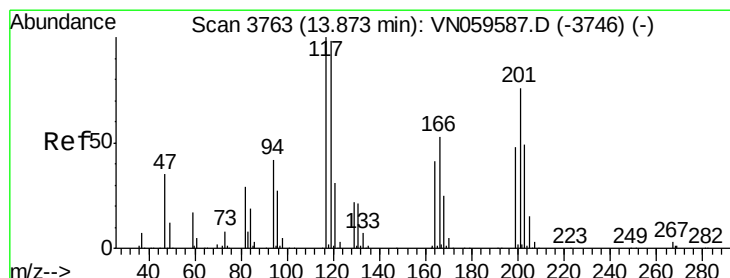
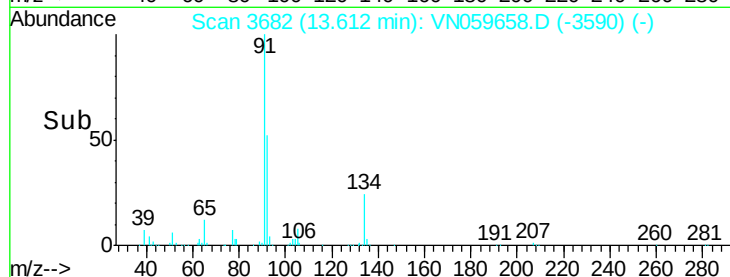
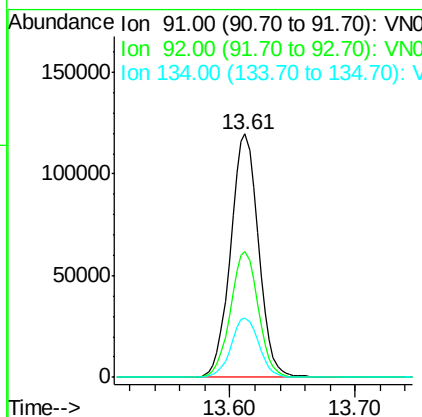
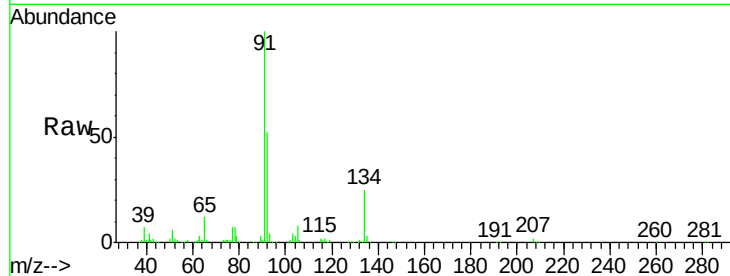
#89
n-Butylbenzene
Concen: 17.965 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.9	77.7
134	24.5	12.3	36.8

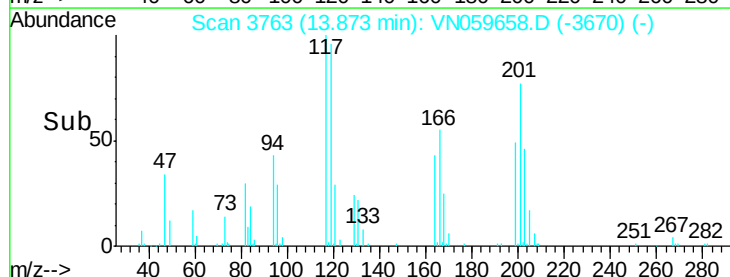
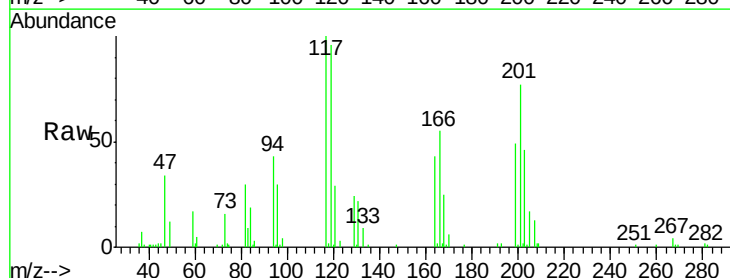
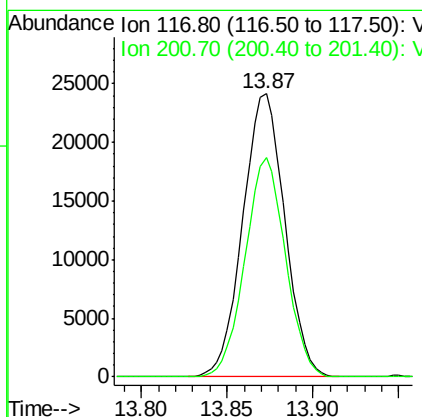
Manual Integrations
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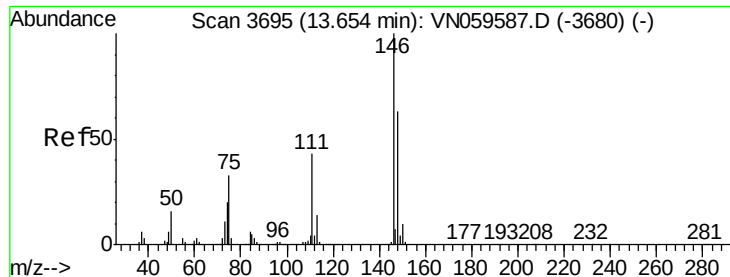
MMDadoda
12/19/2019 11:12:12 AM



#90
Hexachloroethane
Concen: 19.705 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.5	37.8	113.4





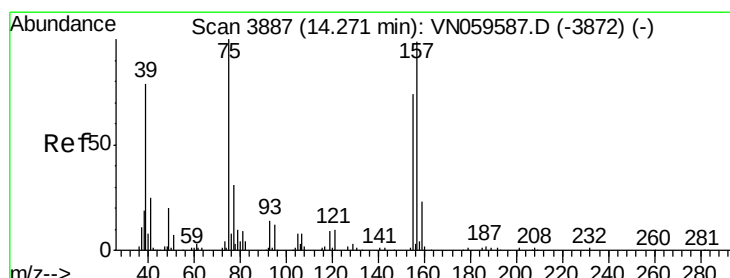
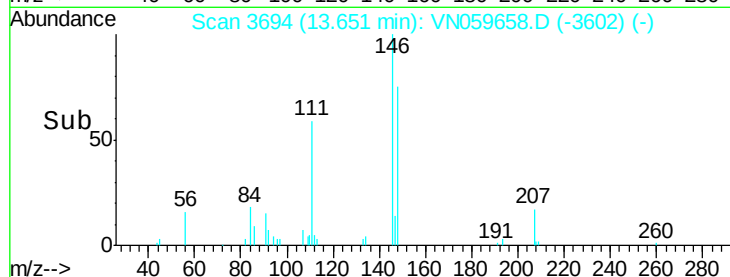
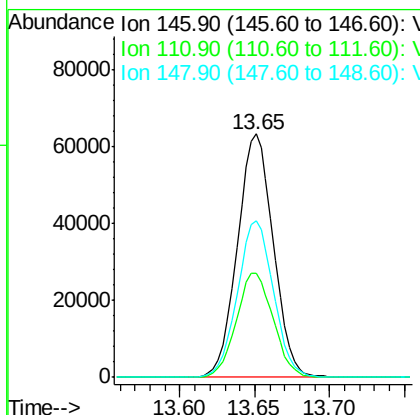
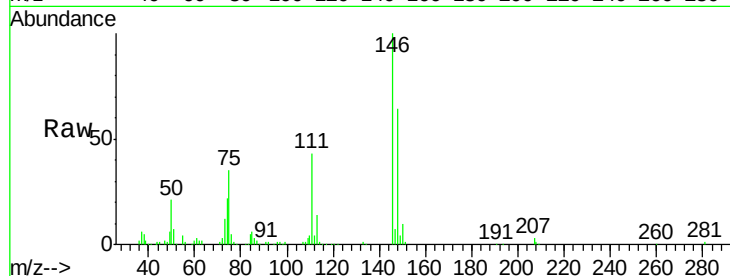
#91
 1,2-Dichlorobenzene
 Concen: 18.662 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.6	64.8
148	64.6	31.6	95.0

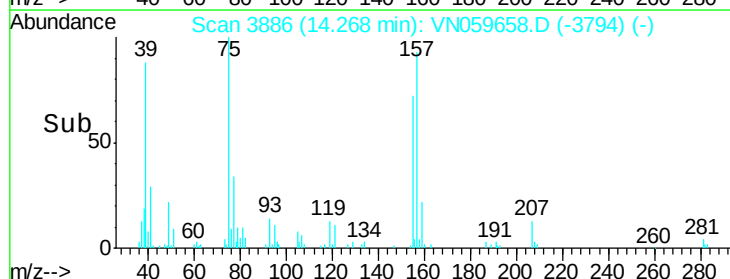
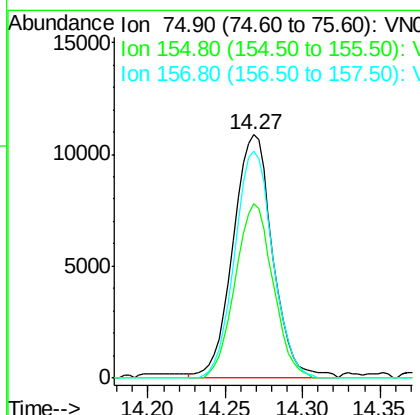
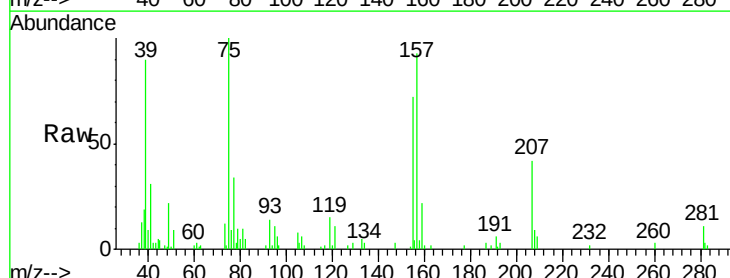
Manual Integrations
 APPROVED

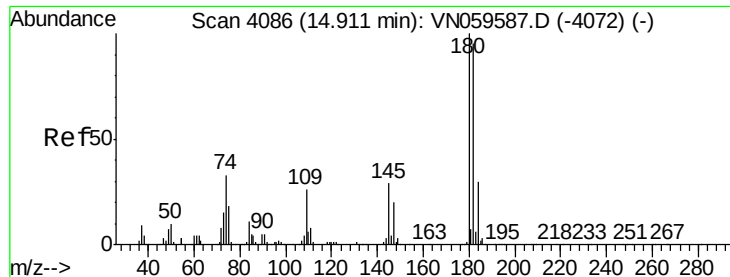
MMDadoda
 12/19/2019 11:12:12 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.331 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	68.0	37.0	110.9
157	89.3	48.4	145.2





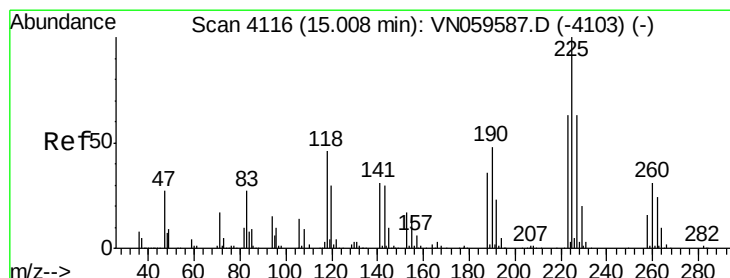
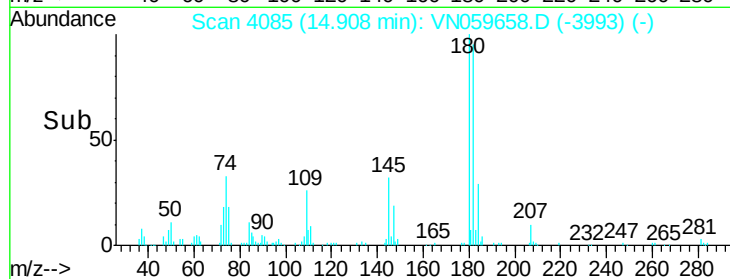
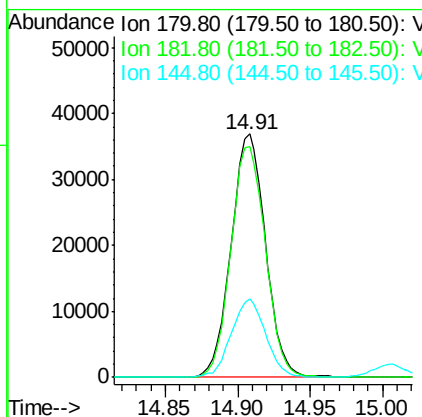
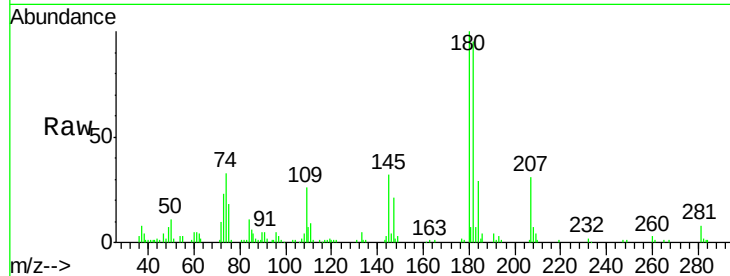
#93
 1,2,4-Trichlorobenzene
 Concen: 16.583 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218MBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	60694		
182	95.8	46.9	140.7	
145	32.2	15.0	45.1	

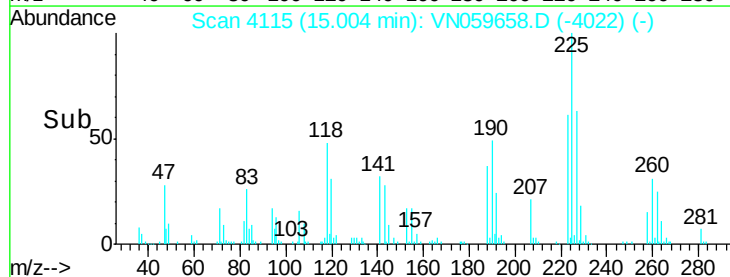
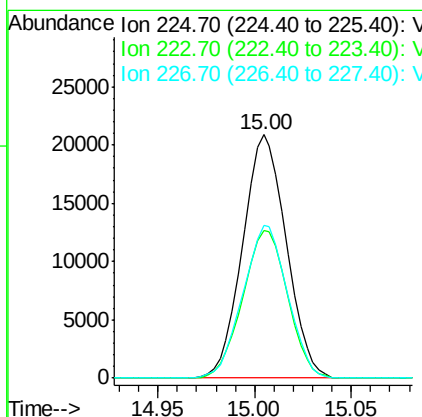
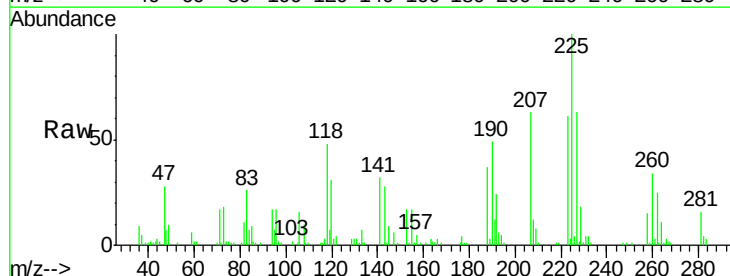
Manual Integrations
 APPROVED

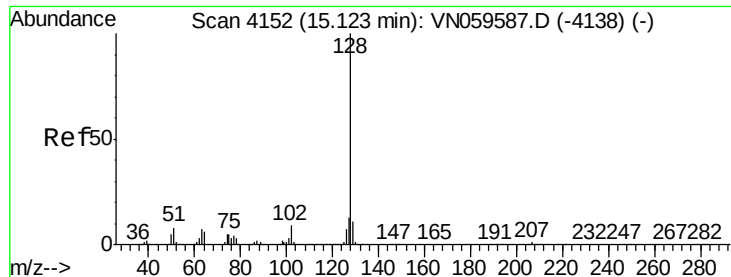
MMDadoda
 12/19/2019 11:12:12 AM



#94
 Hexachlorobutadiene
 Concen: 17.567 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN059658.D
 Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	32772		
223	62.3	31.8	95.3	
227	64.1	32.1	96.5	





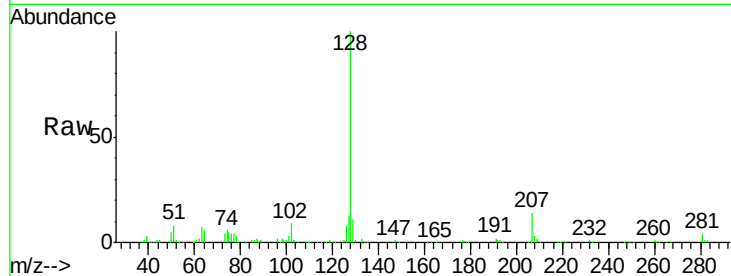
#95
Naphthalene
Concen: 16.330 ug/l
RT: 15.12 min Scan# 4151
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Instrument :
MSVOA_N
ClientSampleId :
VN1218MBSD02

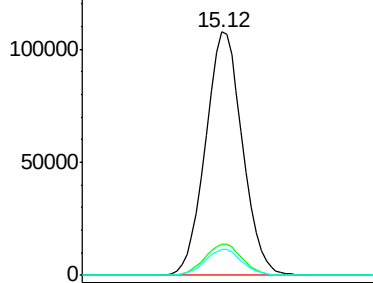
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.6	8.6	12.8

Manual Integrations
APPROVED

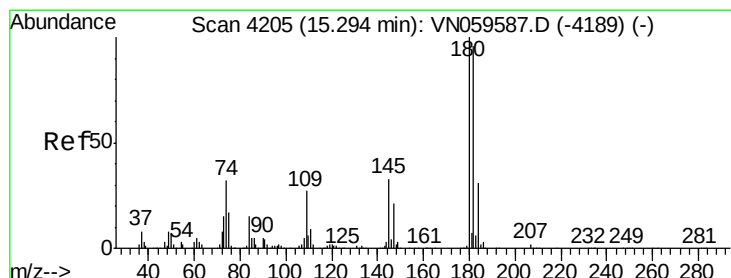
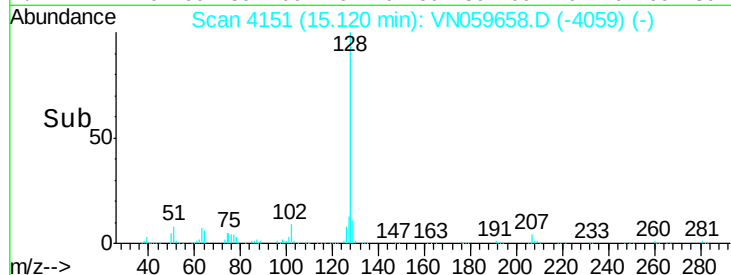
MMDadoda
12/19/2019 11:12:12 AM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

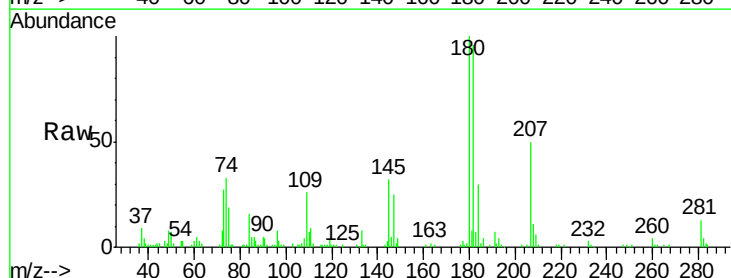


Time-->

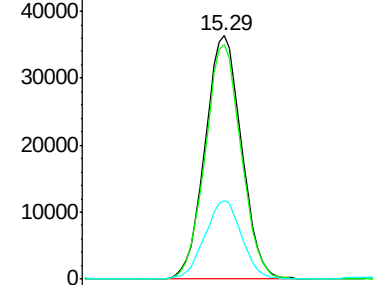


#96
1,2,3-Trichlorobenzene
Concen: 16.674 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. -0.00 min
Lab File: VN059658.D
Acq: 18 Dec 2019 18:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.4	142.3
145	32.9	16.3	48.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V



Time-->

