

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121819\
 Data File : VN059657.D
 Acq On : 18 Dec 2019 18:16
 Operator : JC/SP
 Sample : VN1218WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/19/2019 11:12:05 AM

Quant Time: Dec 19 05:58:24 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	218182	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	355537	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	326205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149105	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	147870	46.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.16%	
35) Dibromofluoromethane	7.57	113	102438	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	
50) Toluene-d8	10.08	98	398483	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
62) 4-Bromofluorobenzene	12.40	95	139996	43.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.12%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.83	85	48628	17.248	ug/l	99
3) Chloromethane	2.04	50	77413	17.303	ug/l	99
4) Vinyl Chloride	2.17	62	68204	16.075	ug/l	99
5) Bromomethane	2.54	94	40240	16.315	ug/l	99
6) Chloroethane	2.67	64	44272	18.566	ug/l	99
7) Trichlorofluoromethane	2.99	101	83846	18.012	ug/l	100
8) Diethyl Ether	3.38	74	30687	21.098	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.73	101	50214	21.405	ug/l	98
10) Methyl Iodide	3.92	142	55106	17.744	ug/l	99
11) Tert butyl alcohol	4.75	59	46727	80.279	ug/l #	91
12) 1,1-Dichloroethene	3.71	96	48988	21.407	ug/l	98
13) Acrolein	3.58	56	41428	99.918	ug/l	97
14) Allyl chloride	4.29	41	77570	16.512	ug/l	99
15) Acrylonitrile	4.95	53	126492	89.843	ug/l	100
16) Acetone	3.79	43	134598	71.407	ug/l	98
17) Carbon Disulfide	4.02	76	120445	15.964	ug/l	100
18) Methyl Acetate	4.29	43	67696	17.139	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	137423	17.008	ug/l	98
20) Methylene Chloride	4.52	84	47888	17.591	ug/l	96
21) trans-1,2-Dichloroethene	5.00	96	42791	16.773	ug/l	95
22) Diisopropyl ether	5.92	45	151900	17.539	ug/l	98
23) Vinyl Acetate	5.86	43	654012	96.224	ug/l	99
24) 1,1-Dichloroethane	5.82	63	87278	17.790	ug/l	98
25) 2-Butanone	6.81	43	177832	78.895	ug/l	98
26) 2,2-Dichloropropane	6.79	77	75311	16.890	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	49190	17.401	ug/l	98
28) Bromochloromethane	7.17	49	39206	19.309	ug/l	97
29) Tetrahydrofuran	7.19	42	116411	84.764	ug/l	99
30) Chloroform	7.35	83	84116	17.418	ug/l	99
31) Cyclohexane	7.63	56	76775	16.562	ug/l	96
32) 1,1,1-Trichloroethane	7.54	97	74772	17.174	ug/l	99
36) 1,1-Dichloropropene	7.77	75	63595	17.152	ug/l	99
37) Ethyl Acetate	6.90	43	75378	17.492	ug/l	98
38) Carbon Tetrachloride	7.75	117	64326	16.719	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	67284	15.998	ug/l	98
40) Benzene	8.02	78	189199	17.461	ug/l	99
41) Methacrylonitrile	7.15	41	24460m	13.753	ug/l	
42) 1,2-Dichloroethane	8.10	62	72767	17.536	ug/l	99
43) Isopropyl Acetate	8.14	43	114526	17.094	ug/l	99
44) Trichloroethene	8.82	130	48363	17.040	ug/l	99
45) 1,2-Dichloropropane	9.10	63	52520	17.950	ug/l	97
46) Dibromomethane	9.19	93	33185	17.311	ug/l	100
47) Bromodichloromethane	9.39	83	65316	17.090	ug/l	99
48) Methyl methacrylate	9.18	41	51331	16.887	ug/l	96
49) 1,4-Dioxane	9.18	88	14473	332.244	ug/l	97
51) 4-Methyl-2-Pentanone	9.97	43	352432	88.226	ug/l	99
52) Toluene	10.14	92	111929	16.812	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	75057	16.981	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	78932	16.988	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	45907	17.572	ug/l	99
56) Ethyl methacrylate	10.42	69	63121	16.275	ug/l	100
57) 1,3-Dichloropropane	10.70	76	79666	17.514	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	115053	93.276	ug/l	98
59) 2-Hexanone	10.74	43	259989	82.580	ug/l	99
60) Dibromochloromethane	10.89	129	48832	17.126	ug/l	100
61) 1,2-Dibromoethane	11.00	107	46674	16.846	ug/l	99
64) Tetrachloroethene	10.62	164	45481	14.957	ug/l	97
65) Chlorobenzene	11.43	112	117838	16.695	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	43524	16.234	ug/l	96
67) Ethyl Benzene	11.51	91	208550	16.369	ug/l	99
68) m/p-Xylenes	11.62	106	155008	32.948	ug/l	99
69) o-Xylene	11.94	106	73741	16.473	ug/l	99
70) Styrene	11.96	104	114796	15.961	ug/l	98
71) Bromoform	12.12	173	33109	16.429	ug/l #	99
73) Isopropylbenzene	12.25	105	198069	16.922	ug/l	99
74) N-amyl acetate	12.07	43	87202	16.242	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	64453	17.359	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	67958m	18.411	ug/l	
77) Bromobenzene	12.52	156	47916	16.646	ug/l	97
78) n-propylbenzene	12.59	91	232517	16.805	ug/l	99
79) 2-Chlorotoluene	12.67	91	141635	16.929	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	166997	16.860	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	23978	16.044	ug/l	97
82) 4-Chlorotoluene	12.77	91	142476	16.632	ug/l	100
83) tert-Butylbenzene	12.99	119	139206	16.595	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	163158	16.566	ug/l	99
85) sec-Butylbenzene	13.17	105	189129	16.950	ug/l	99
86) p-Isopropyltoluene	13.29	119	165560	16.382	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	84043	15.878	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	83751	15.694	ug/l	97
89) n-Butylbenzene	13.61	91	142609	15.051	ug/l	98
90) Hexachloroethane	13.87	117	31681	16.585	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	85632	16.404	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15675	16.214	ug/l	95

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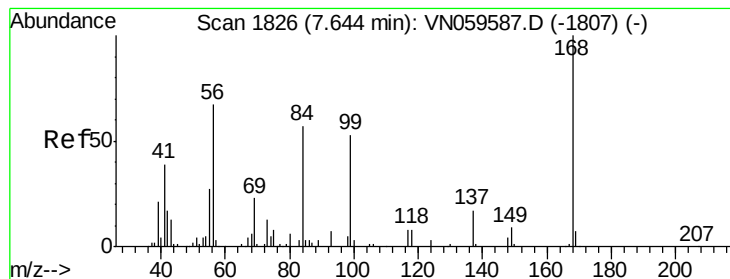
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	46832	13.894	ug/l	100
94) Hexachlorobutadiene	15.00	225	25140	14.864	ug/l	97
95) Naphthalene	15.12	128	137368	13.651	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	47539	13.944	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion:168 Resp: 218182

Ion Ratio Lower Upper

168 100

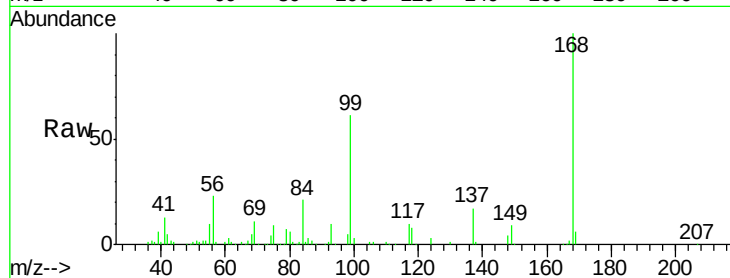
99 60.4 48.2 72.4

Manual Integrations

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12/19/2019 11:12:05 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

40000

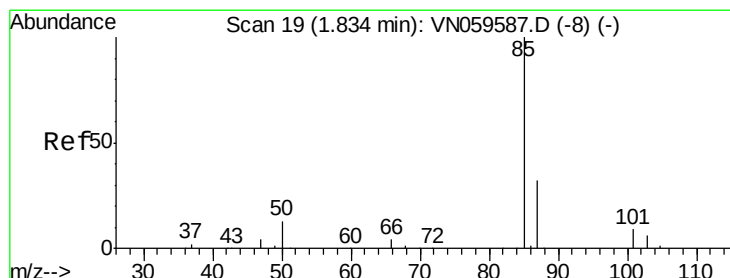
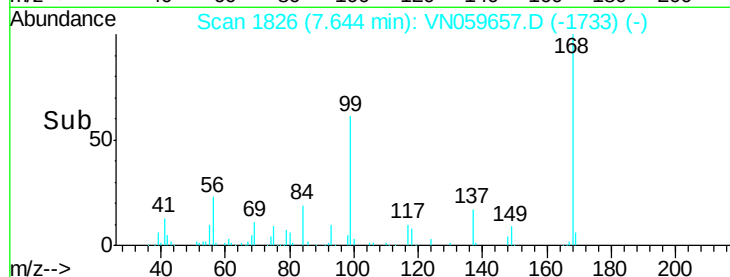
20000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 17.248 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059657.D

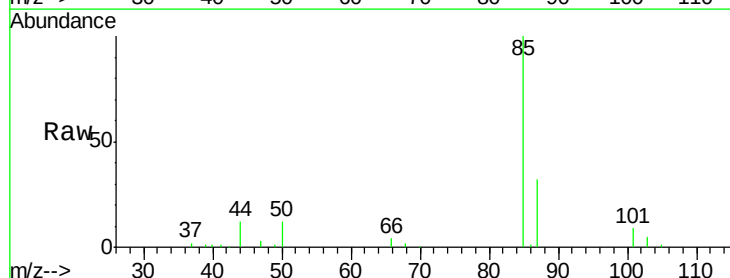
Acq: 18 Dec 2019 18:16

Tgt Ion: 85 Resp: 48628

Ion Ratio Lower Upper

85 100

87 32.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

40000

30000

20000

10000

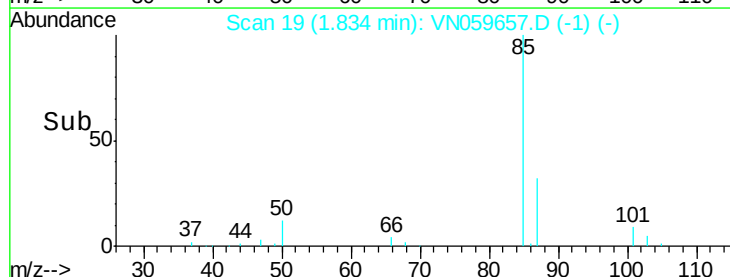
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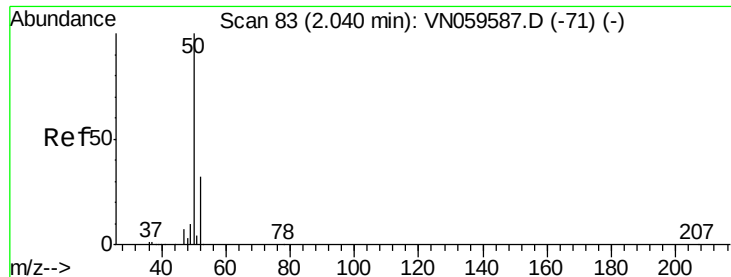
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 17.303 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 50 Resp: 77413

Ion Ratio Lower Upper

50 100

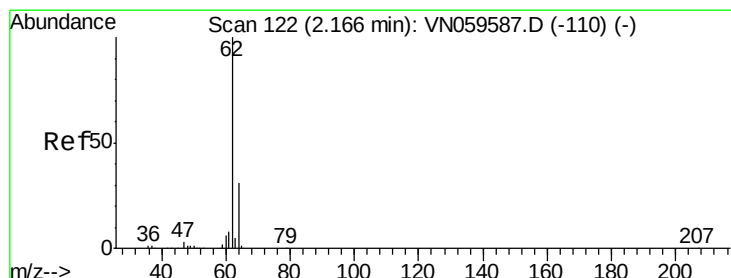
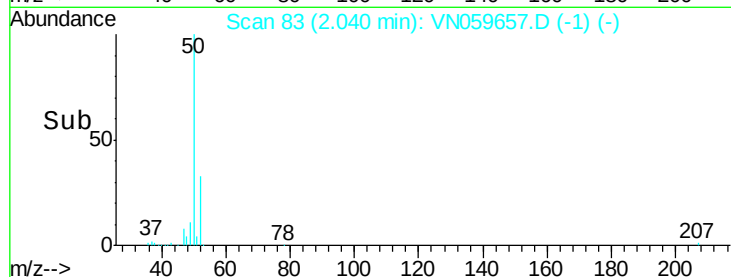
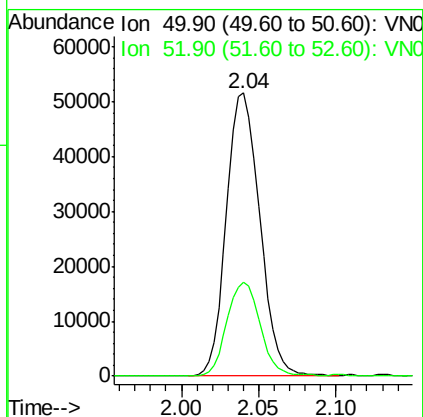
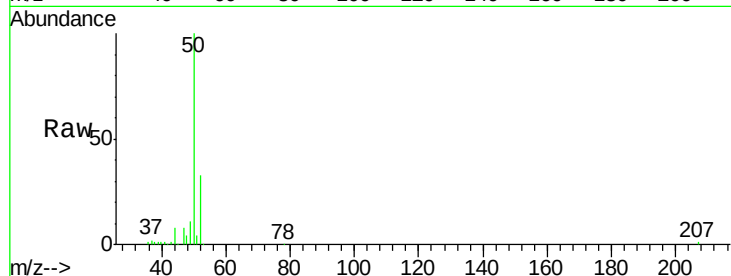
52 33.1 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 16.075 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN059657.D

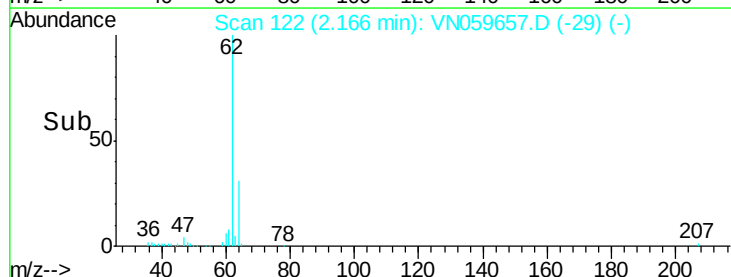
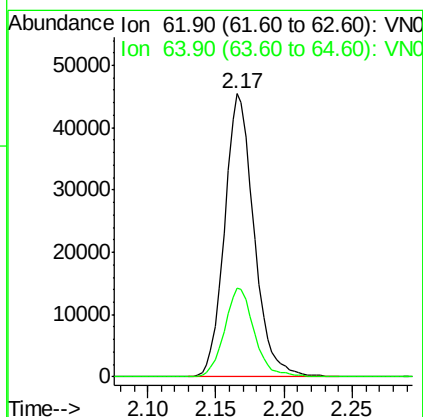
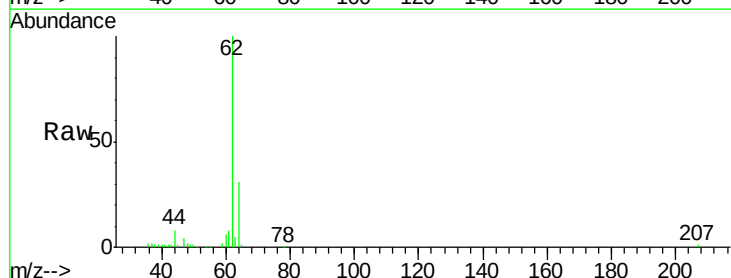
Acq: 18 Dec 2019 18:16

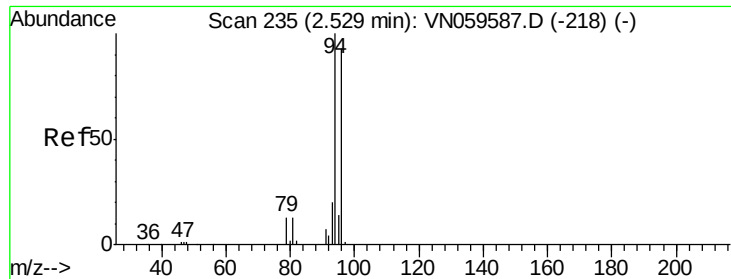
Tgt Ion: 62 Resp: 68204

Ion Ratio Lower Upper

62 100

64 31.3 24.6 37.0





#5

Bromomethane

Concen: 16.315 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 94 Resp: 40240

Ion Ratio Lower Upper

94 100

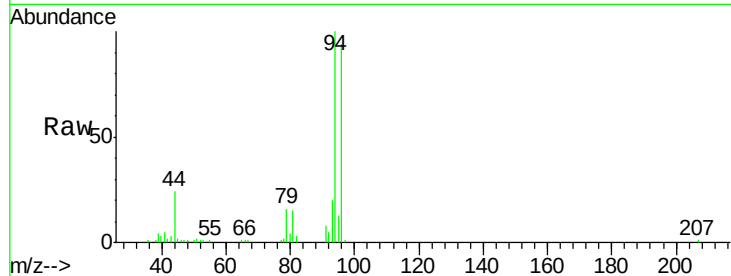
96 94.1 74.7 112.1

Manual Integrations

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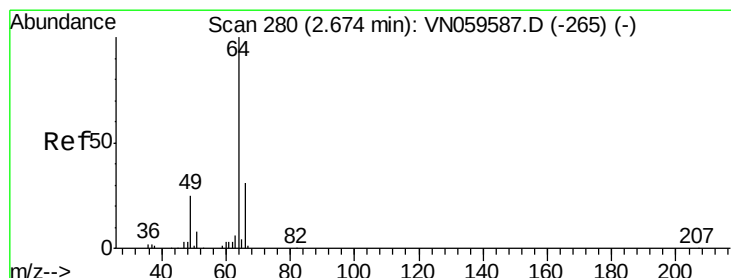
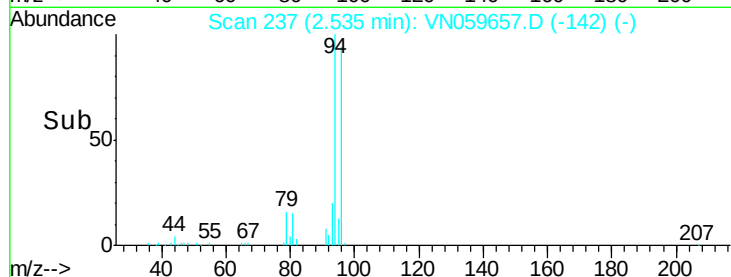
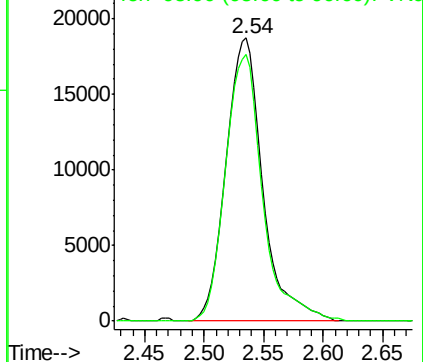
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 18.566 ug/l

RT: 2.67 min Scan# 280

Delta R.T. -0.00 min

Lab File: VN059657.D

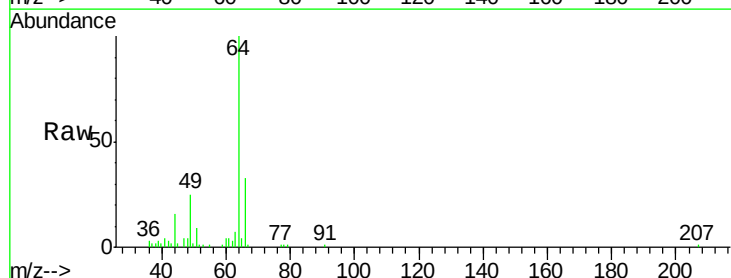
Acq: 18 Dec 2019 18:16

Tgt Ion: 64 Resp: 44272

Ion Ratio Lower Upper

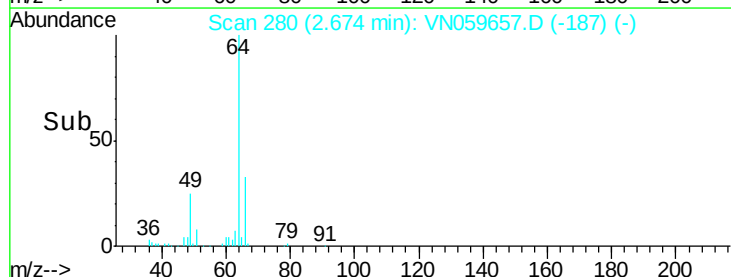
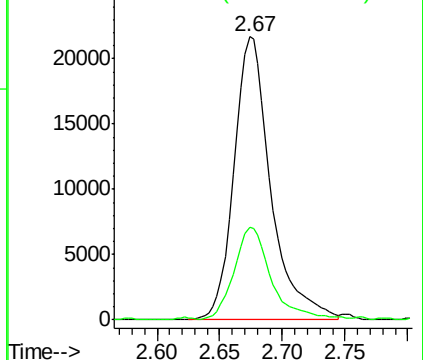
64 100

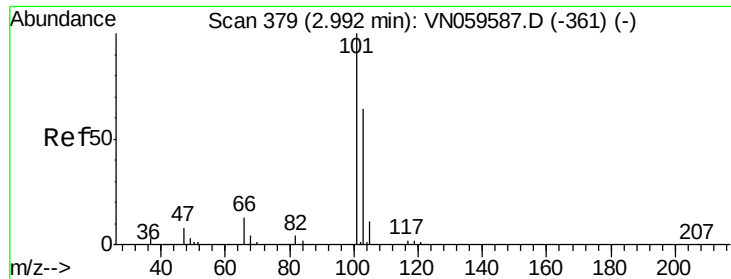
66 32.0 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

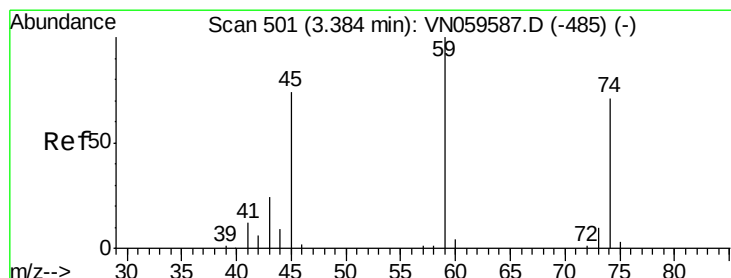
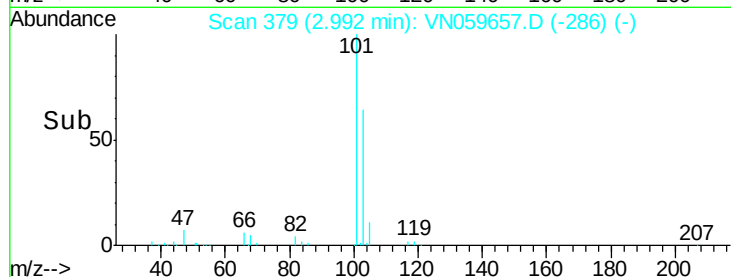
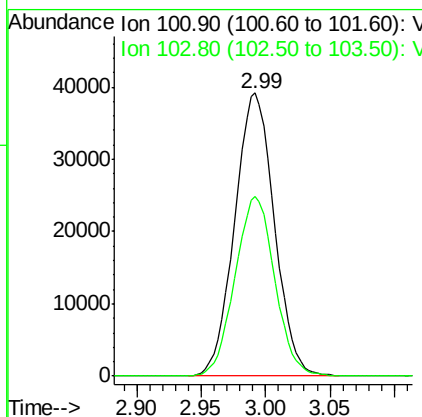
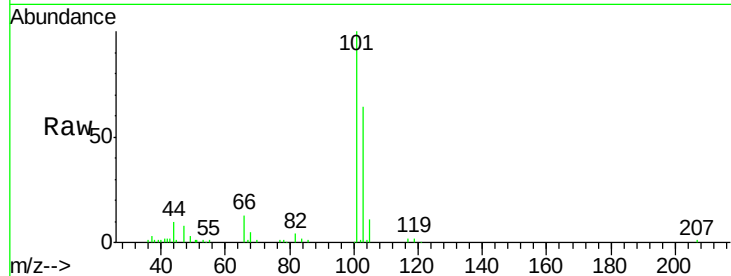
Trichlorofluoromethane
Concen: 18.012 ug/l
RT: 2.99 min Scan# 379
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.0	76.6

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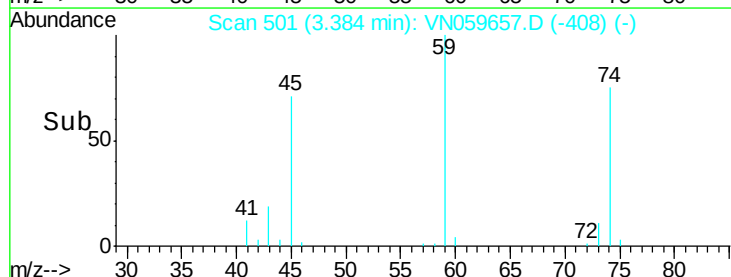
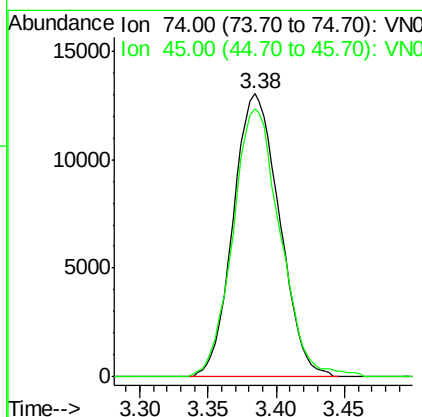
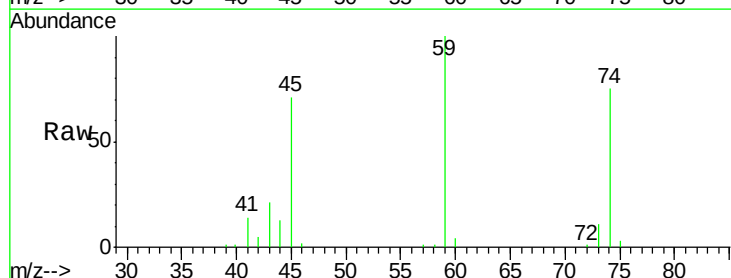
MMDadoda
12/19/2019 11:12:05 AM

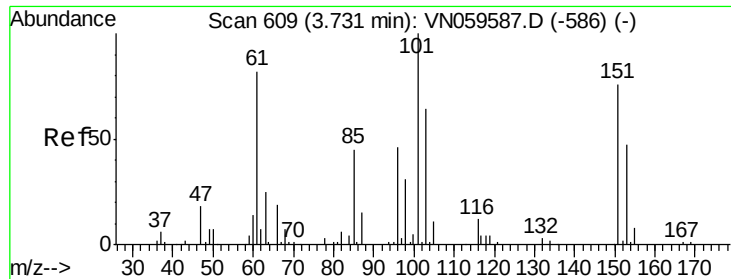


#8

Diethyl Ether
Concen: 21.098 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.0	51.9	155.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.405 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

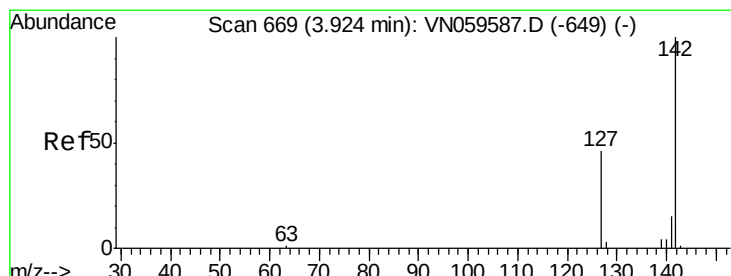
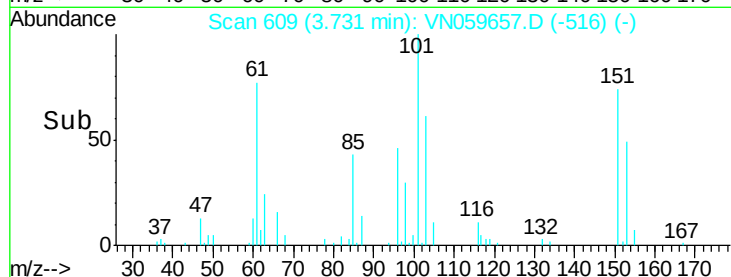
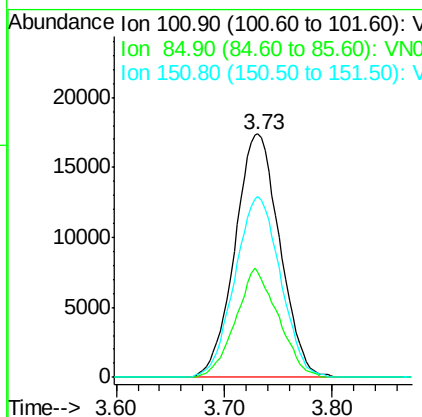
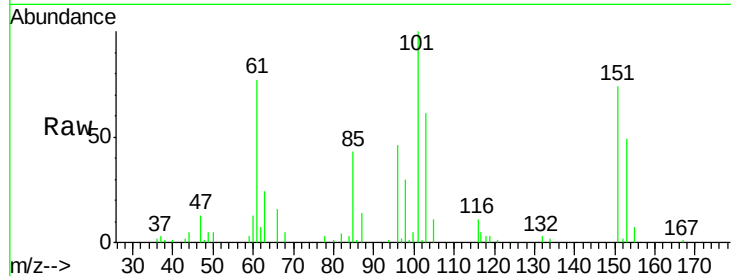
ClientSampleId :

VN1218WBSD02

Tot Ion:	101	Resp:	50214
Ion Ratio	Lower	Upper	
101	100		
85	42.4	36.6	54.8
151	75.4	59.7	89.5

Manual Integrations
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12/19/2019 11:12:05 AM



#10

Methyl Iodide

Concen: 17.744 ug/l

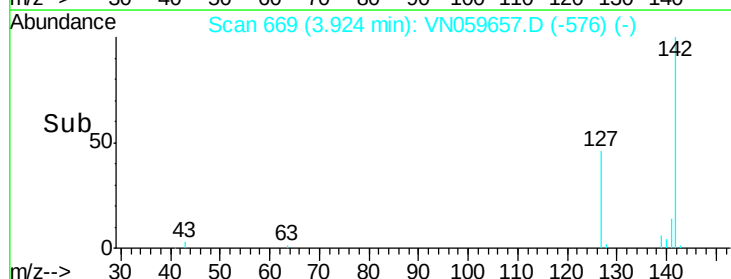
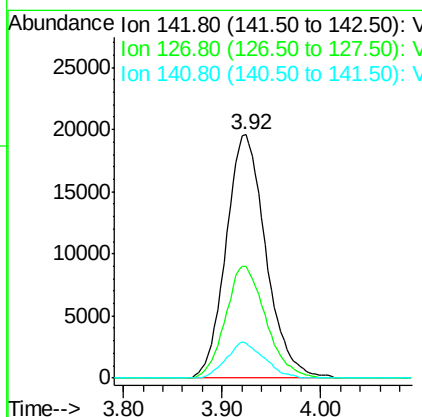
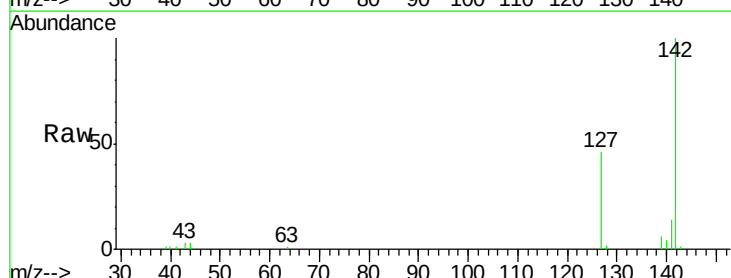
RT: 3.92 min Scan# 669

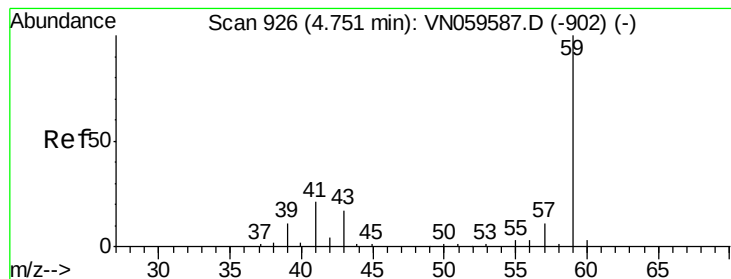
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	142	Resp:	55106
Ion Ratio	Lower	Upper	
142	100		
127	46.3	36.7	55.1
141	13.9	11.7	17.5





#11

Tert butyl alcohol

Concen: 80.279 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 59 Resp: 46727

Ion Ratio Lower Upper

59 100

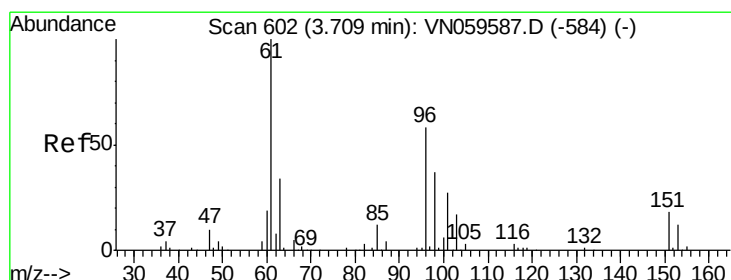
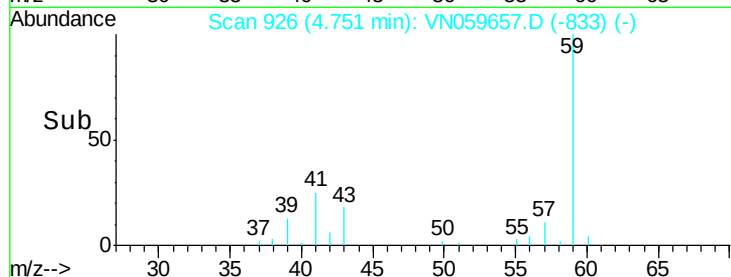
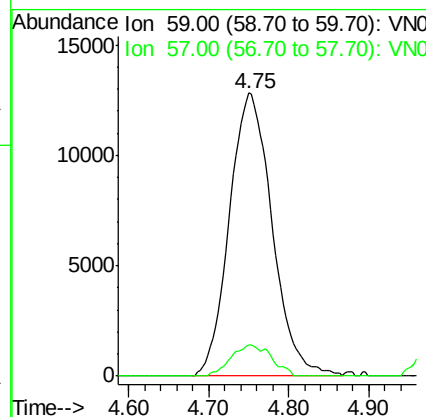
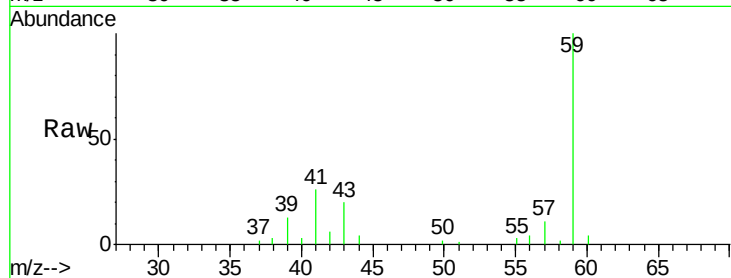
57 7.2 8.6 12.8#

Manual Integrations

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MMDadoda

12/19/2019 11:12:05 AM



#12

1,1-Dichloroethene

Concen: 21.407 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

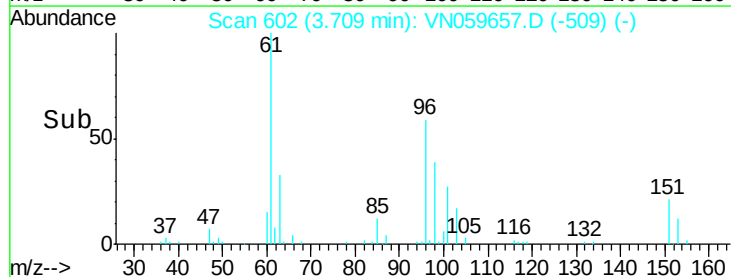
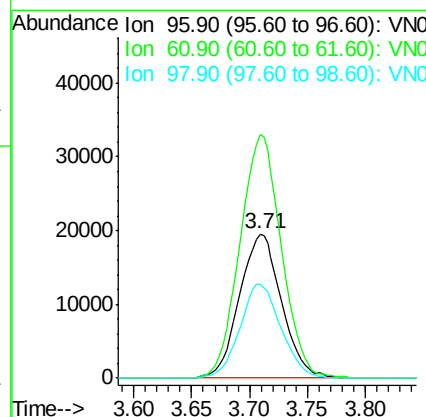
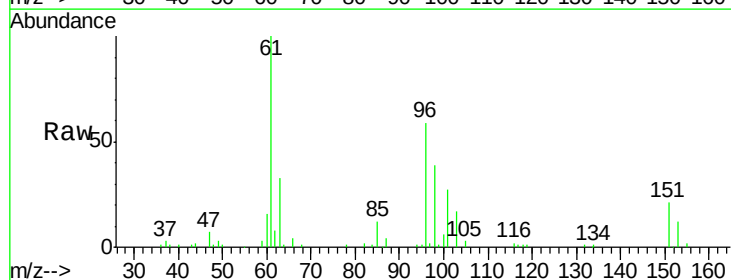
Tgt Ion: 96 Resp: 48988

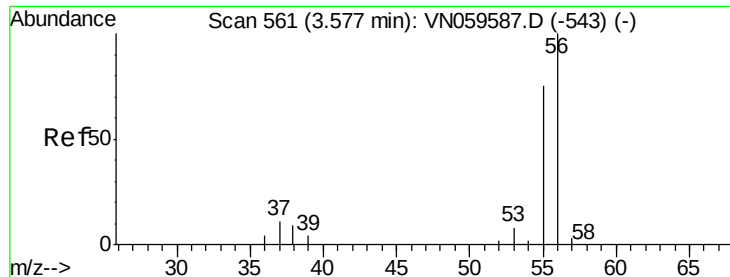
Ion Ratio Lower Upper

96 100

61 168.7 137.5 206.3

98 65.1 50.2 75.4





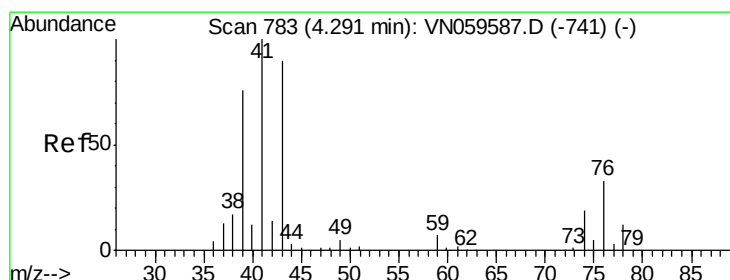
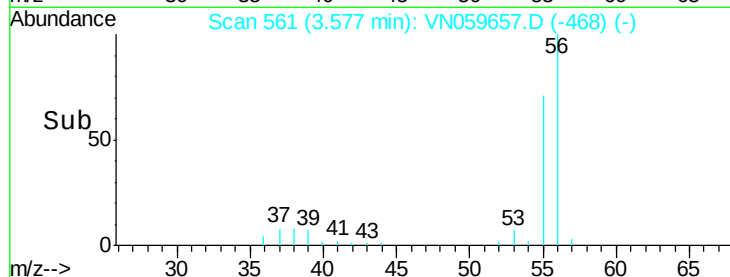
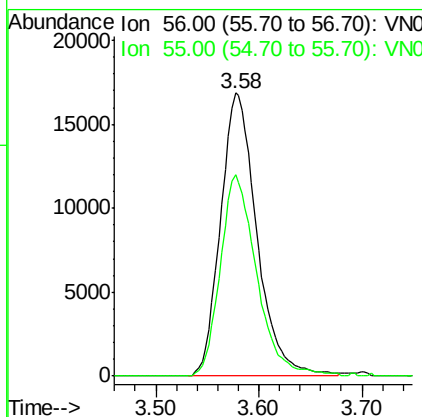
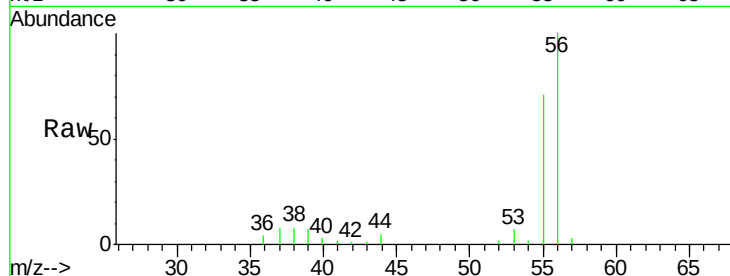
#13
Acrolein
Concen: 99.918 ug/l
RT: 3.58 min Scan# 561
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		41428		
55	71.1		58.6	88.0	

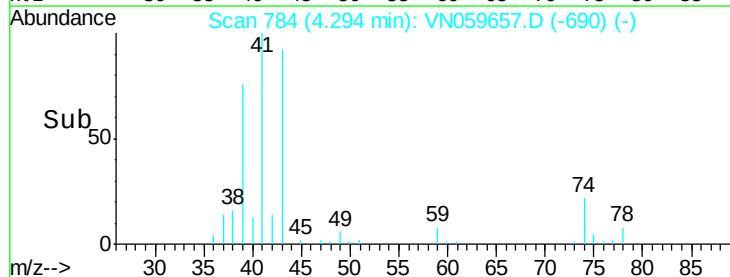
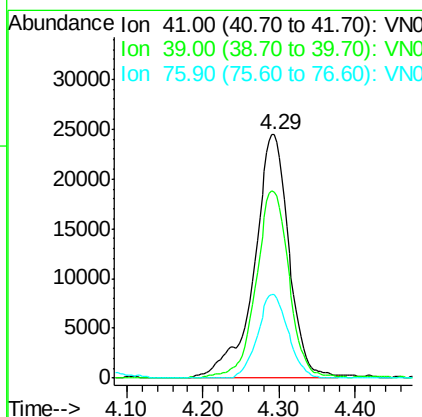
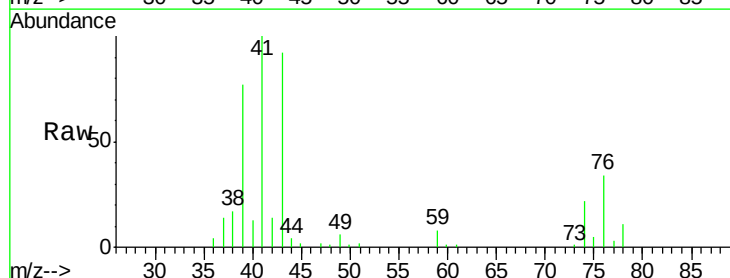
Manual Integrations
APPROVED

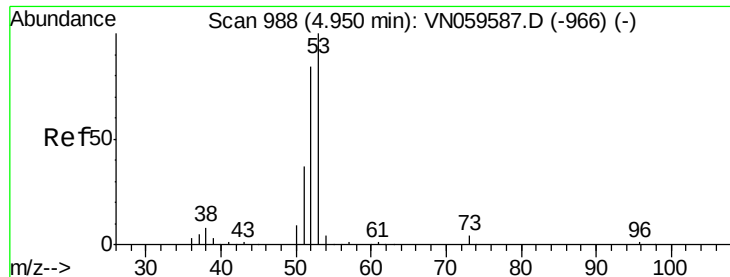
MMDadoda
12/19/2019 11:12:05 AM



#14
Allyl chloride
Concen: 16.512 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
41	100		77570		
39	72.8		57.8	86.8	
76	30.3		25.4	38.0	





#15

Acrylonitrile

Concen: 89.843 ug/l

RT: 4.95 min Scan# 988

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

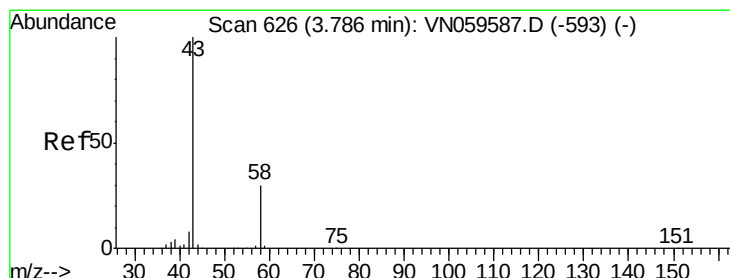
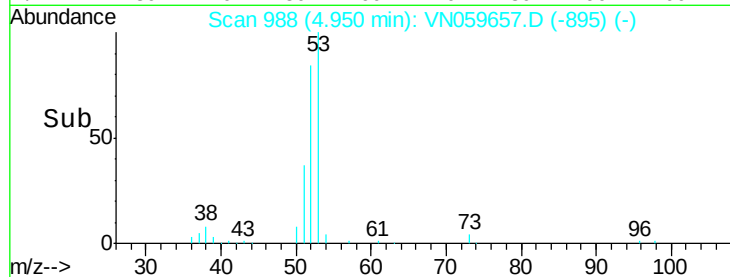
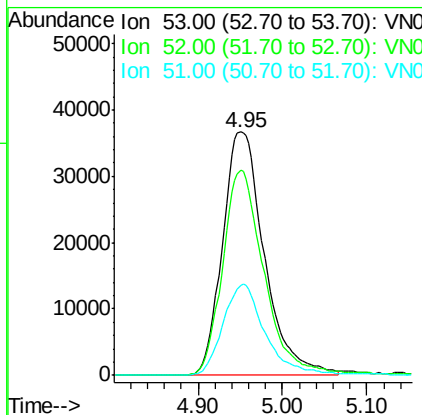
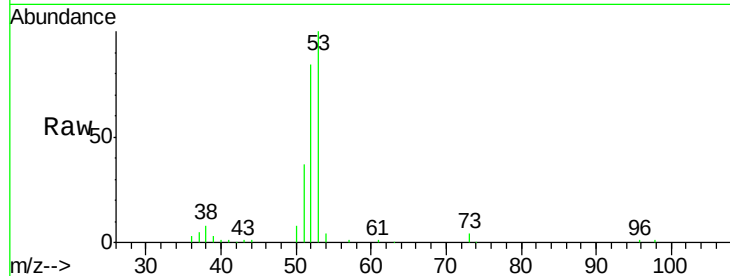
ClientSampleId :

VN1218WBSD02

Tot Ion:	53	Resp:	126492
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.3	99.5
51	37.7	29.7	44.5

Manual Integrations
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MMDadoda
12/19/2019 11:12:05 AM



#16

Acetone

Concen: 71.407 ug/l

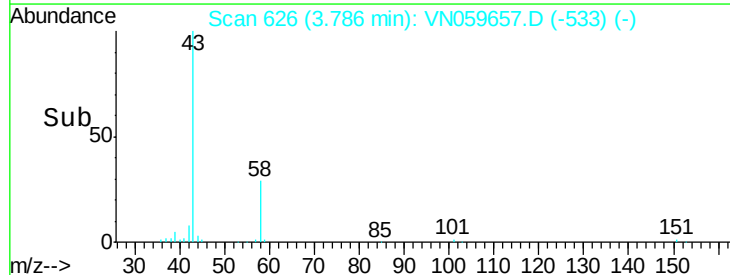
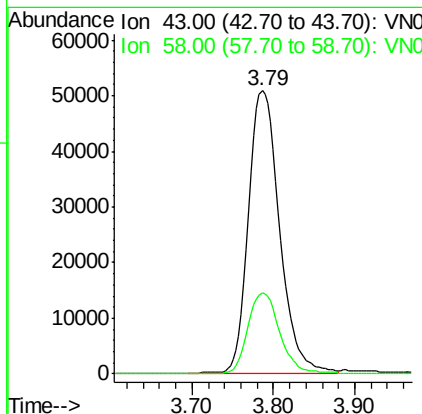
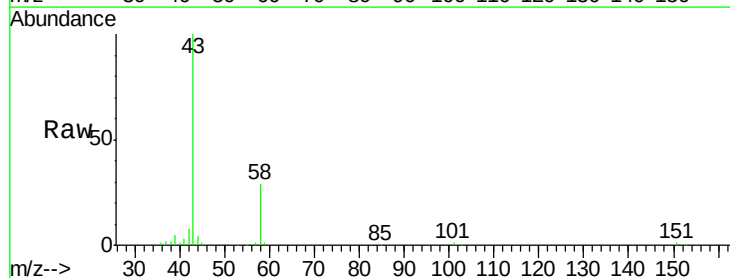
RT: 3.79 min Scan# 626

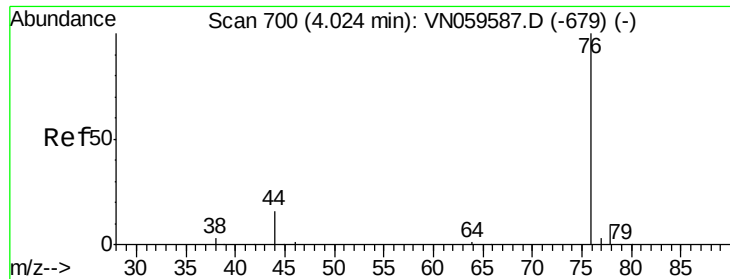
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	43	Resp:	134598
Ion	Ratio	Lower	Upper
43	100		
58	28.6	23.6	35.4





#17

Carbon Disulfide

Concen: 15.964 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tot Ion: 76 Resp: 120445

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

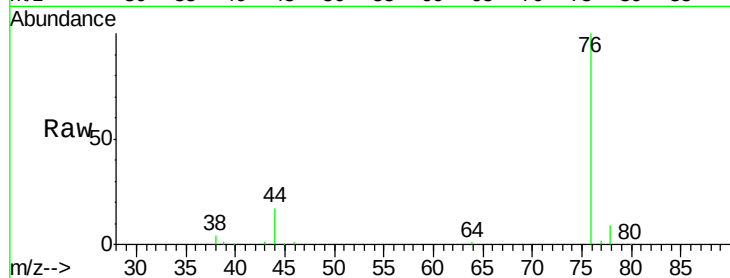
VN1218WBSD02

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.02

50000

40000

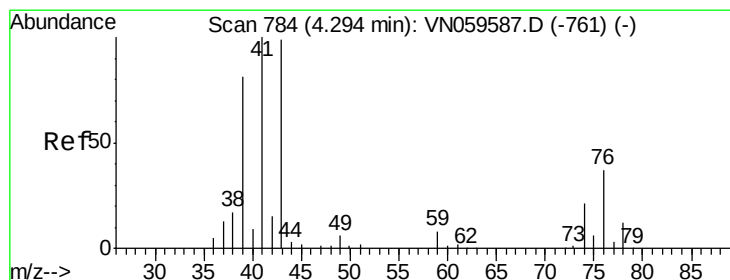
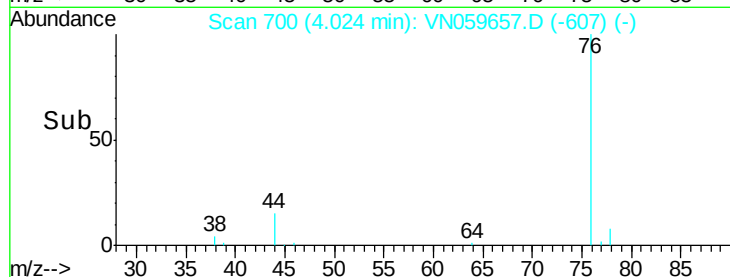
30000

20000

10000

0

Time-->



#18

Methyl Acetate

Concen: 17.139 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059657.D

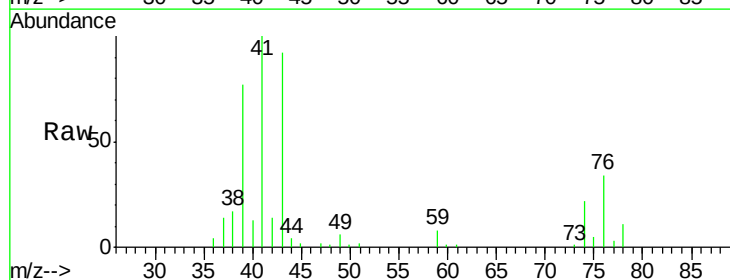
Acq: 18 Dec 2019 18:16

Tgt Ion: 43 Resp: 67696

Ion Ratio Lower Upper

43 100

74 21.9 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.29

25000

20000

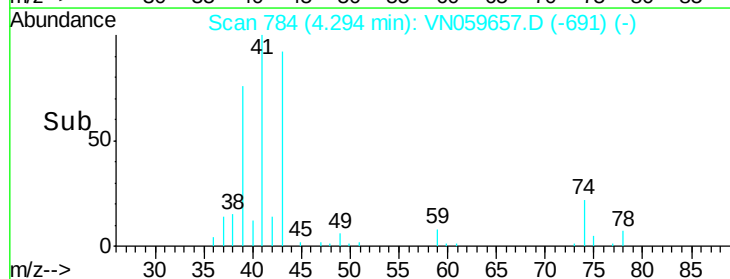
15000

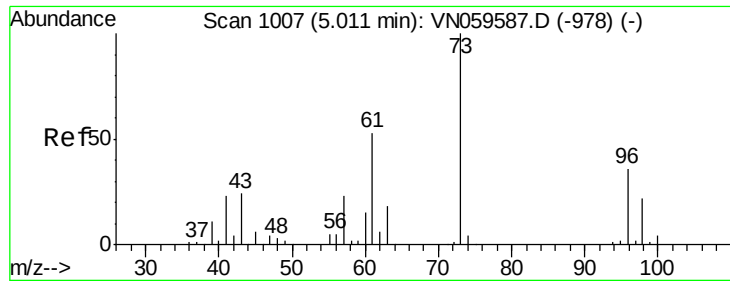
10000

5000

0

Time-->





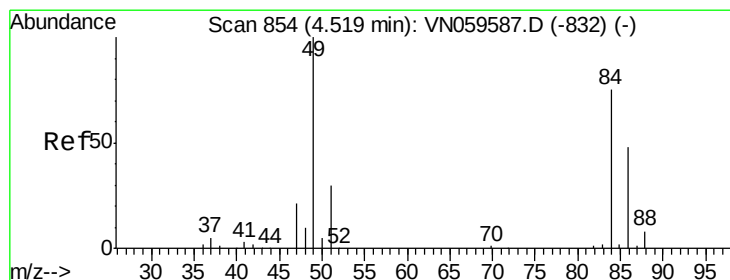
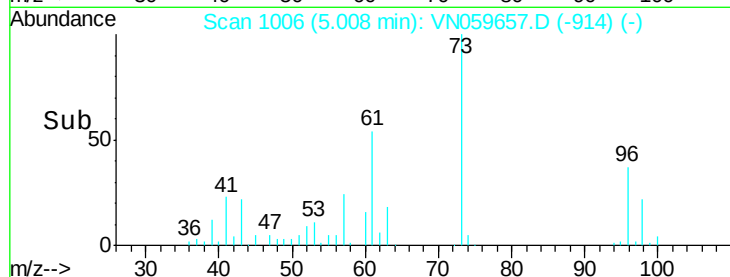
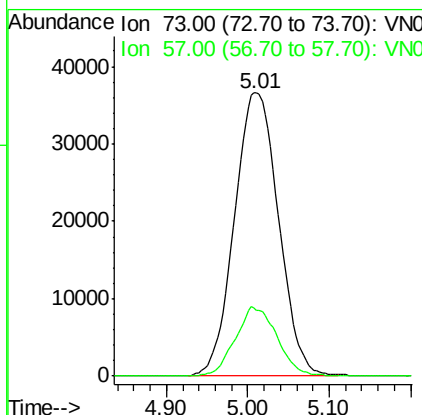
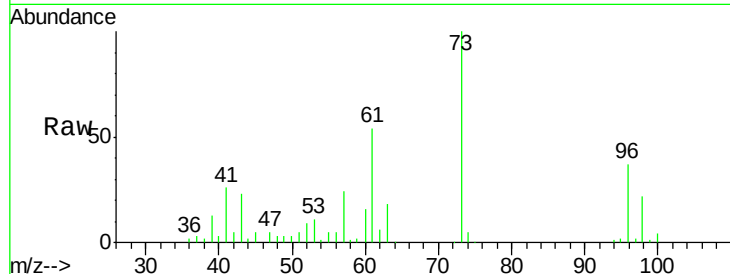
#19
Methyl tert-butyl Ether
Concen: 17.008 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion: 73 Resp: 137423
Ion Ratio Lower Upper
73 100
57 24.3 18.6 27.8

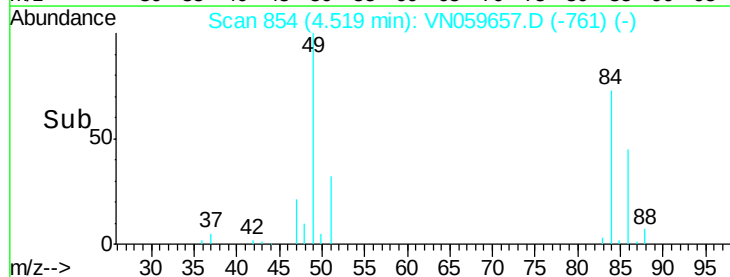
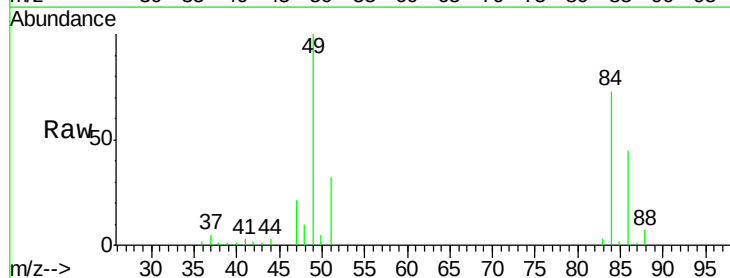
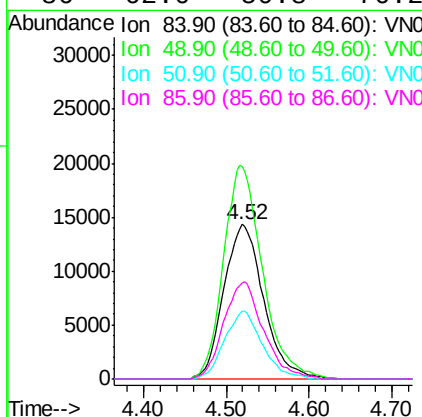
Manual Integrations
APPROVED

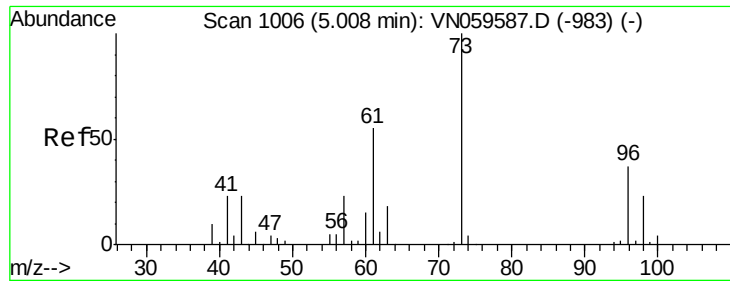
MMDadoda
12/19/2019 11:12:05 AM



#20
Methylene Chloride
Concen: 17.591 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion: 84 Resp: 47888
Ion Ratio Lower Upper
84 100
49 137.4 106.6 160.0
51 43.9 31.9 47.9
86 62.0 50.8 76.2





#21

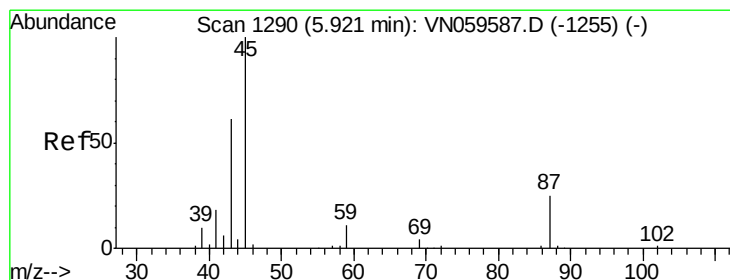
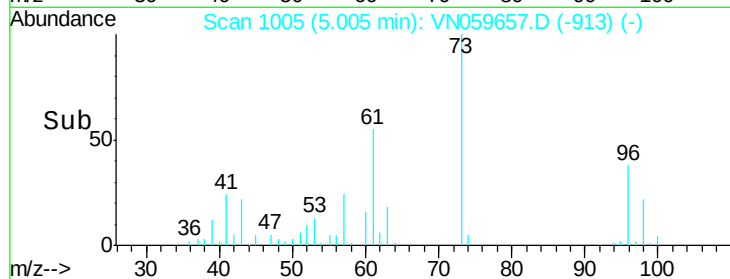
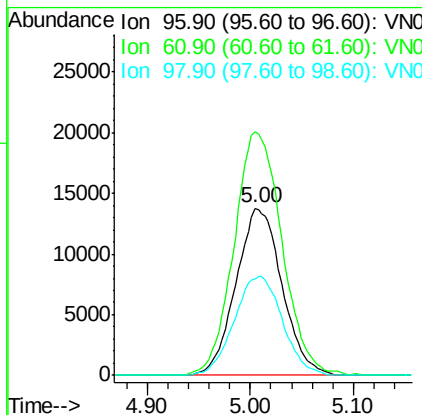
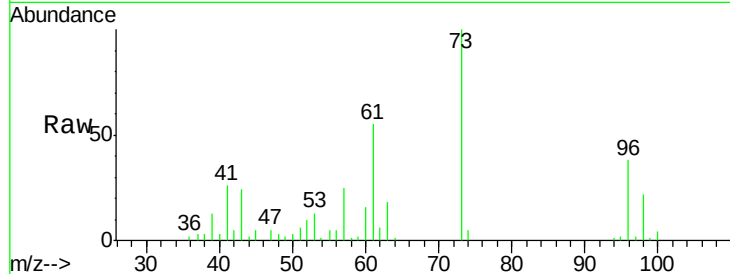
trans-1,2-Dichloroethene
Concen: 16.773 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.6	120.4	180.6
98	57.9	50.6	75.8

Manual Integrations
APPROVED

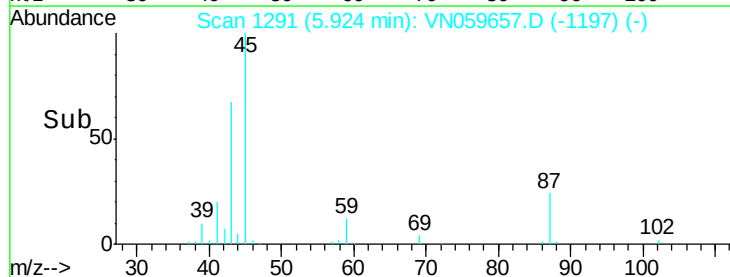
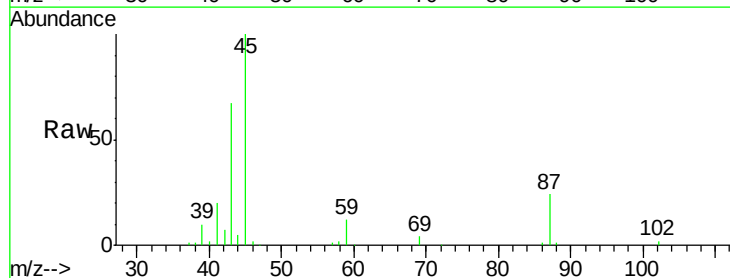
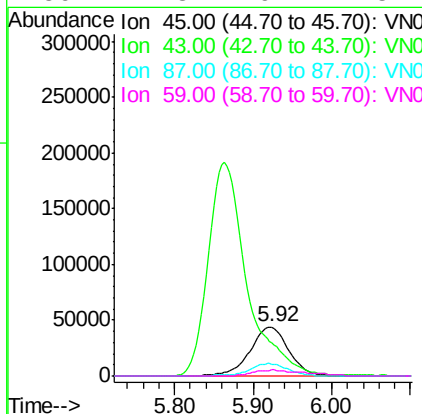
MMDadoda
12/19/2019 11:12:05 AM

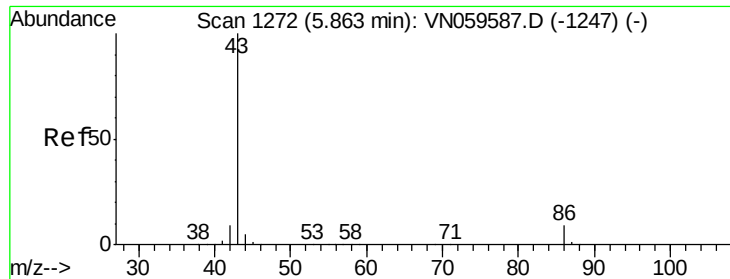


#22

Diisopropyl ether
Concen: 17.539 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. 0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.6	50.8	76.2
87	24.3	21.0	31.6
59	12.3	9.1	13.7





#23

Vinyl Acetate

Concen: 96.224 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 43 Resp: 654012

Ion Ratio Lower Upper

43 100

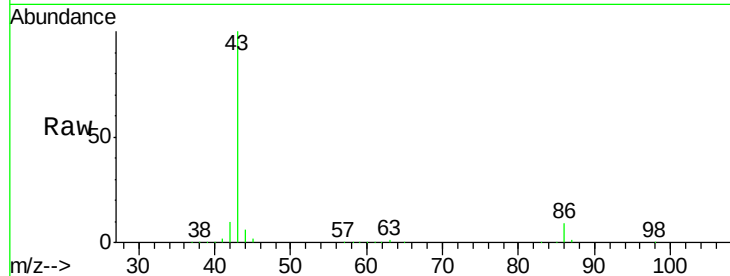
86 9.2 7.6 11.4

Manual Integrations

APPROVED

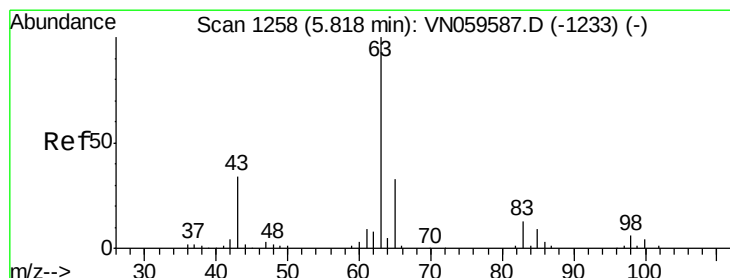
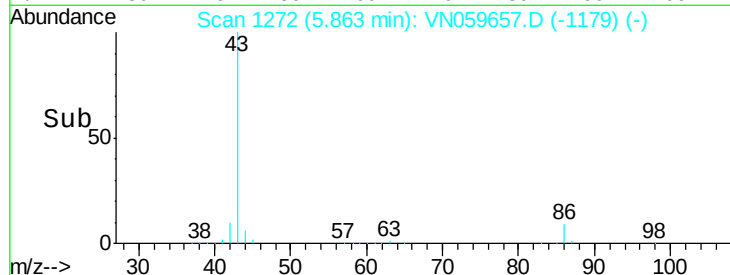
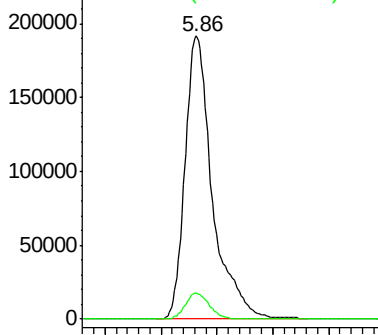
MMDadoda

12/19/2019 11:12:05 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 17.790 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

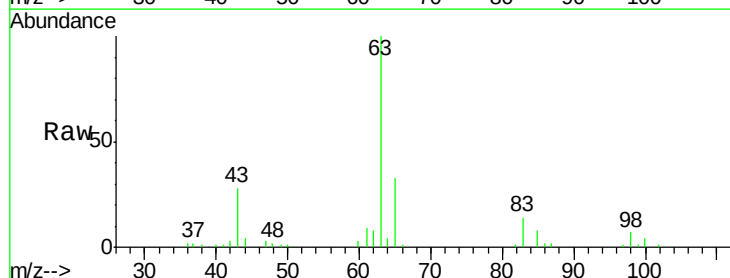
Tgt Ion: 63 Resp: 87278

Ion Ratio Lower Upper

63 100

98 6.7 2.9 8.7

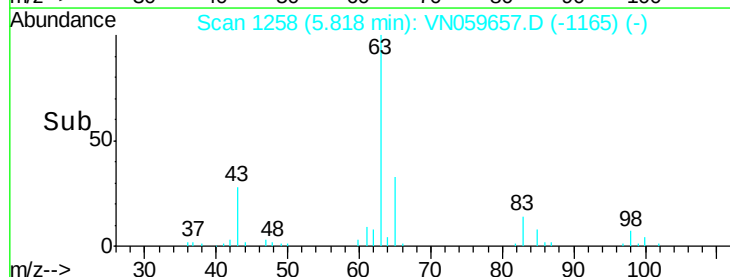
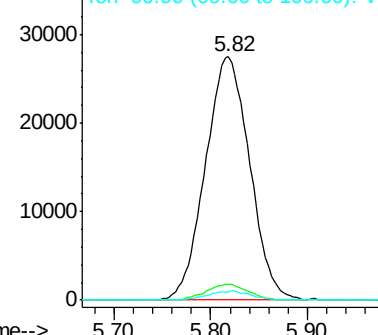
100 3.5 2.0 6.0

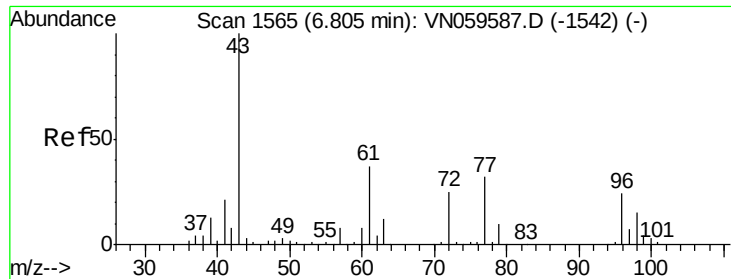


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 78.895 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tot Ion: 43 Resp: 177832

Ion Ratio Lower Upper

43 100

72 24.0 19.9 29.9

Instrument :

MSVOA_N

ClientSampled :

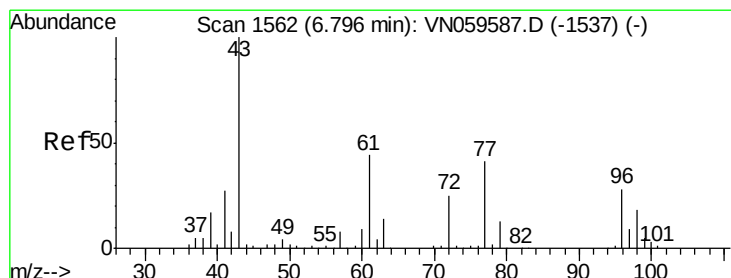
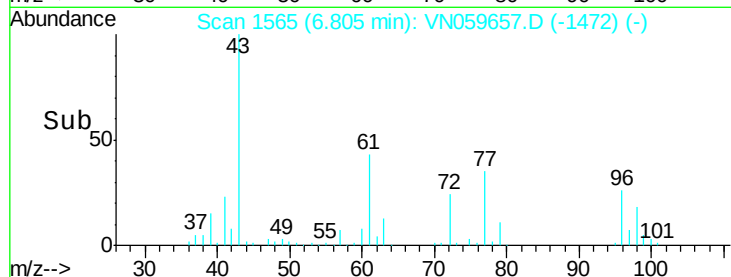
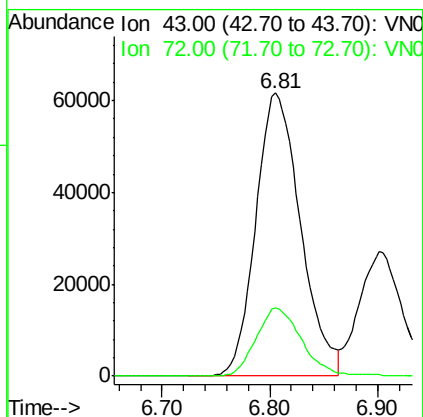
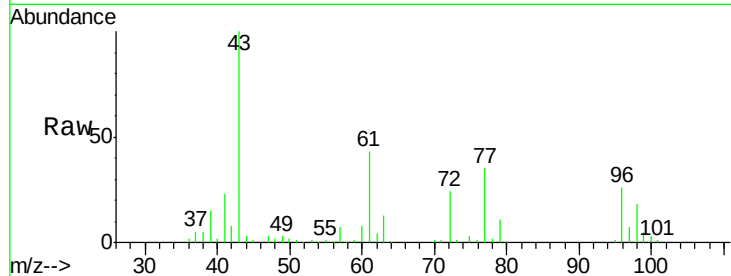
VN1218WBSD02

Manual Integrations

APPROVED

MMDadoda

12/19/2019 11:12:05 AM



#26

2,2-Dichloropropane

Concen: 16.890 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN059657.D

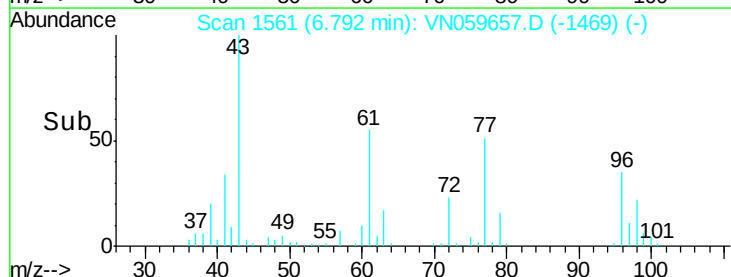
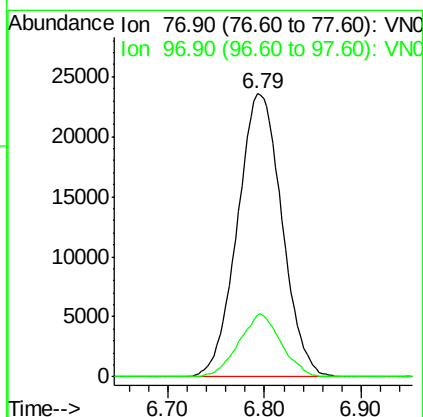
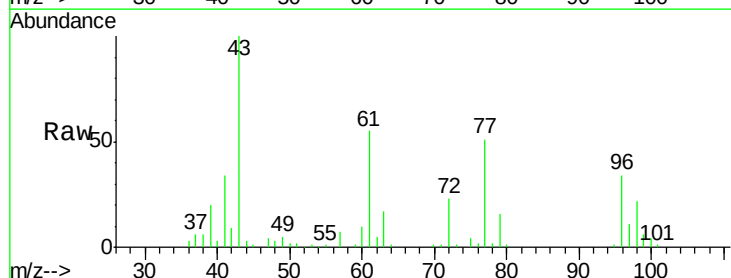
Acq: 18 Dec 2019 18:16

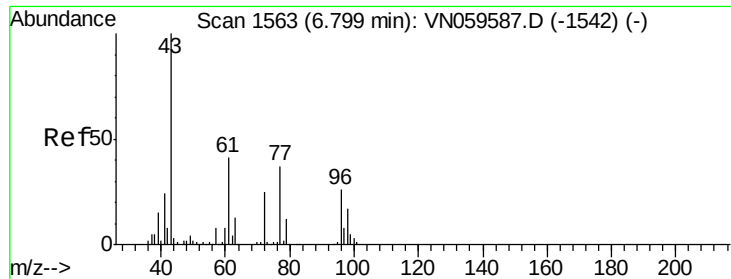
Tgt Ion: 77 Resp: 75311

Ion Ratio Lower Upper

77 100

97 21.1 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 17.401 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

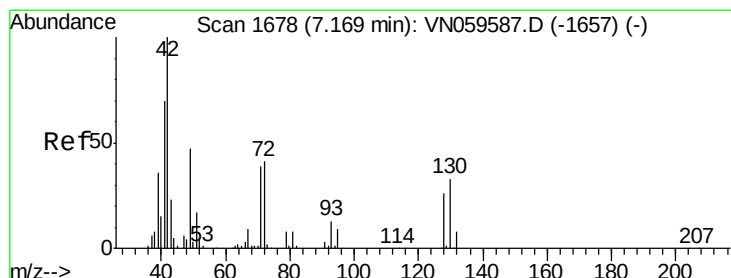
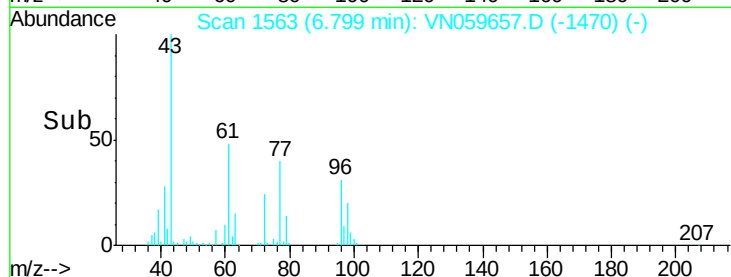
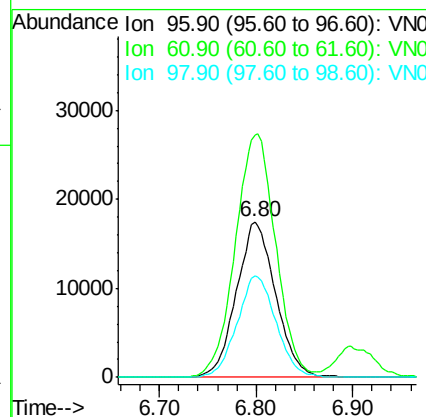
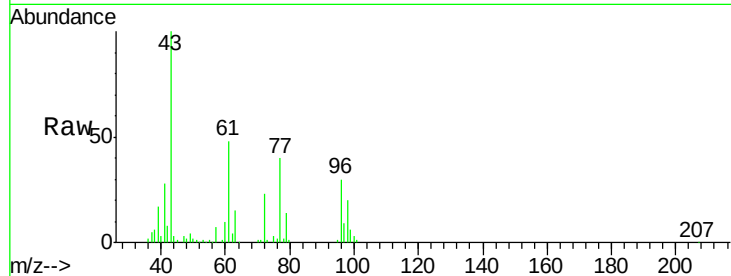
ClientSampleId :

VN1218WBSD02

Tot Ion:	96	Resp:	49190
Ion	Ratio	Lower	Upper
96	100		
61	160.7	0.0	317.6
98	64.9	0.0	127.0

Manual Integrations
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#28

Bromochloromethane

Concen: 19.309 ug/l

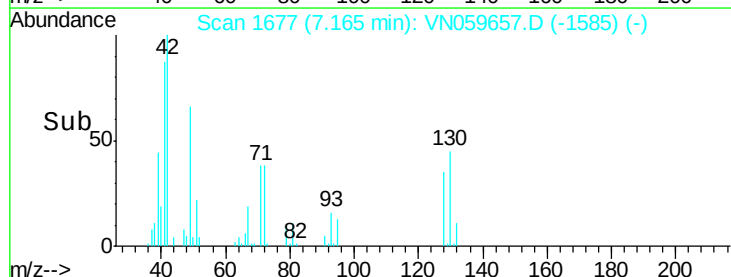
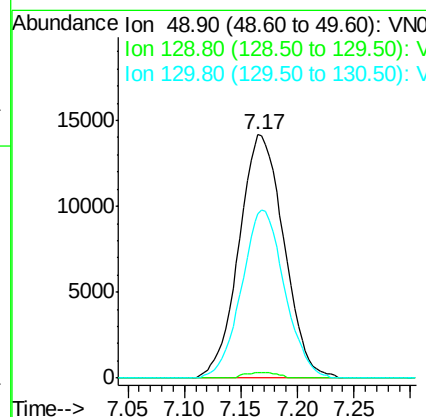
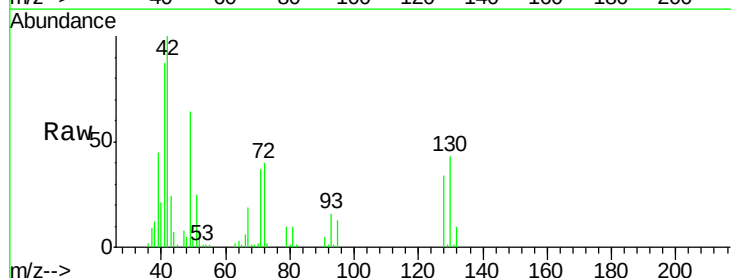
RT: 7.17 min Scan# 1677

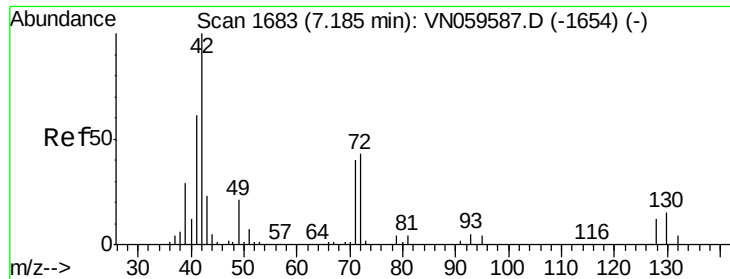
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	49	Resp:	39206
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.4
130	66.1	54.7	82.1





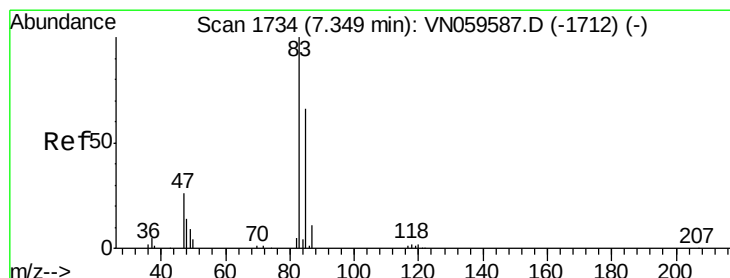
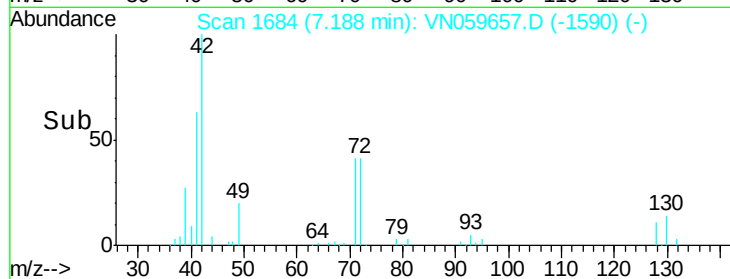
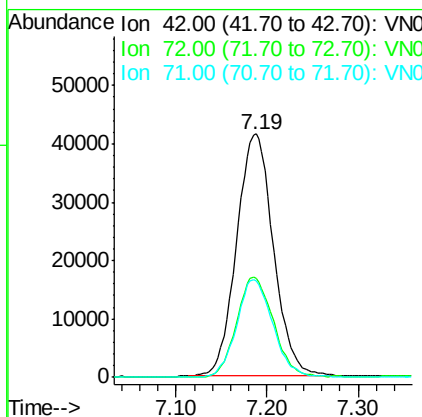
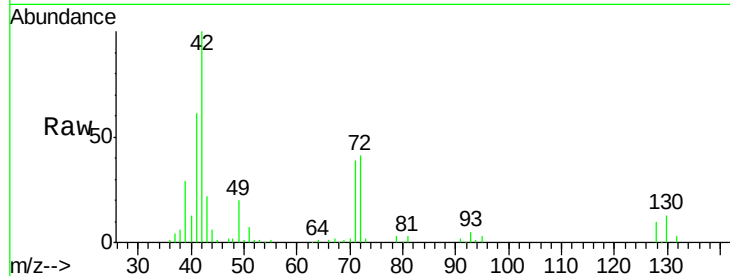
#29
Tetrahydrofuran
Concen: 84.764 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.1	49.7
71	39.7	31.4	47.0

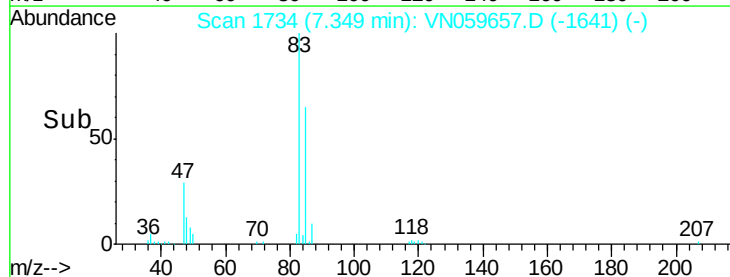
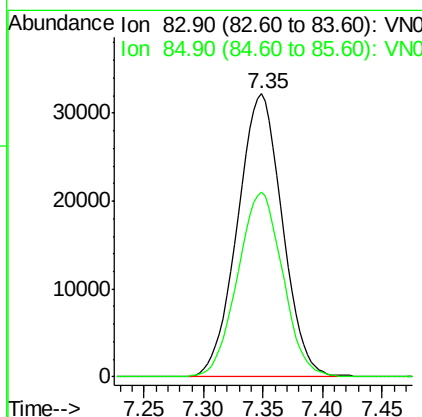
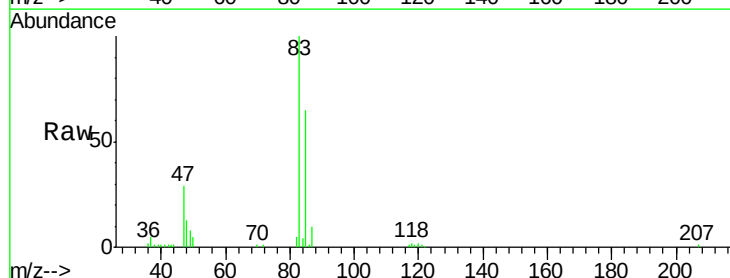
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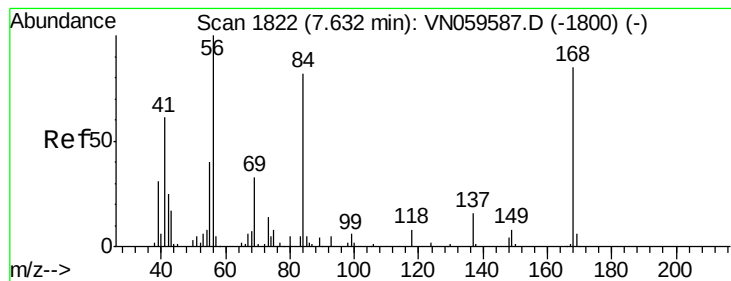
MMDadoda
12/19/2019 11:12:05 AM



#30
Chloroform
Concen: 17.418 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.4	78.6





#31

Cyclohexane

Concen: 16.562 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

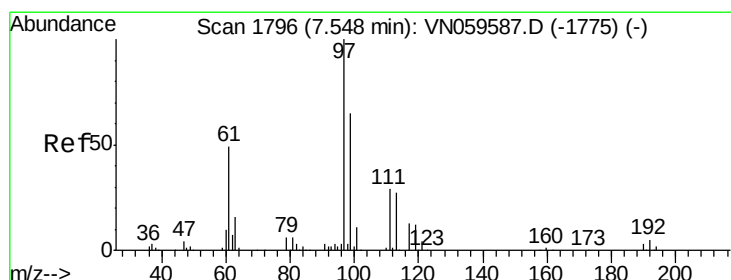
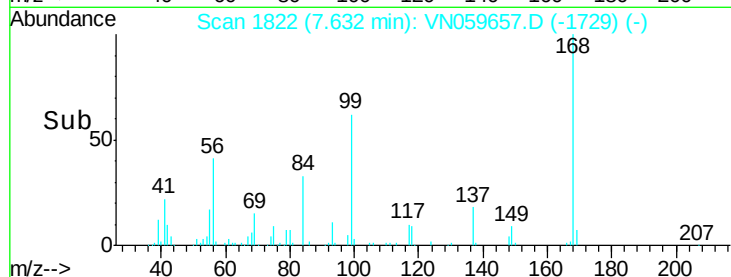
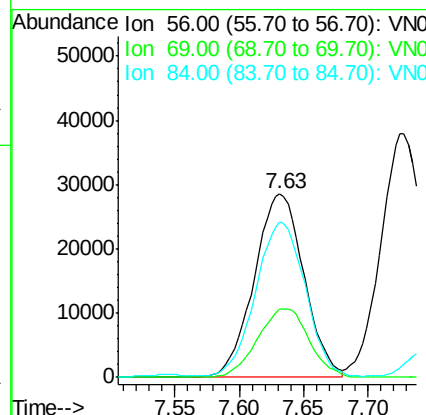
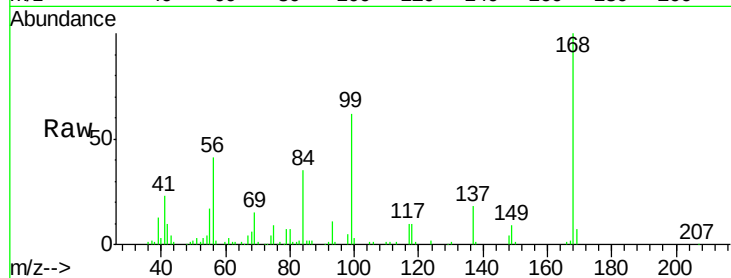
ClientSampleId :

VN1218WBSD02

Tot Ion:	56	Resp:	76775
Ion	Ratio	Lower	Upper
56	100		
69	36.9	26.5	39.7
84	83.7	65.3	97.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 17.174 ug/l

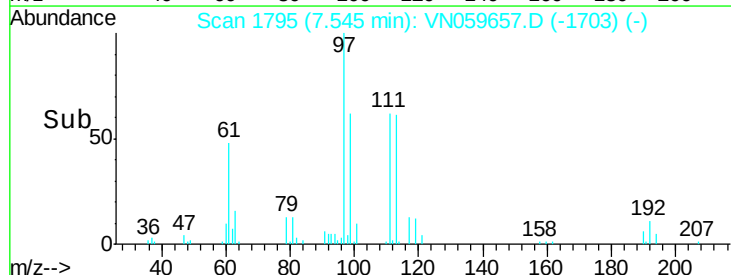
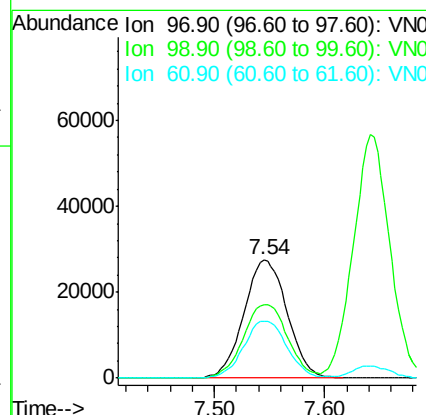
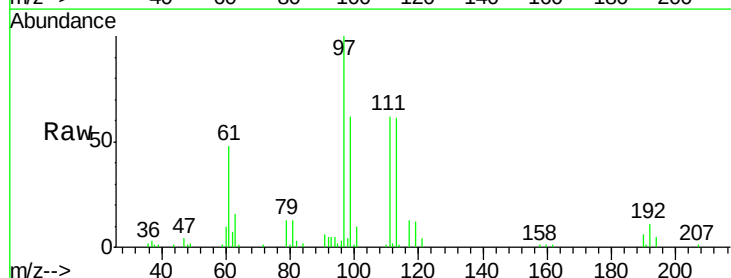
RT: 7.54 min Scan# 1795

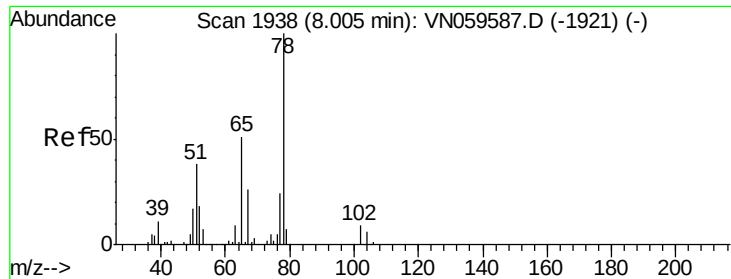
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	97	Resp:	74772
Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.0	76.4
61	48.5	38.5	57.7





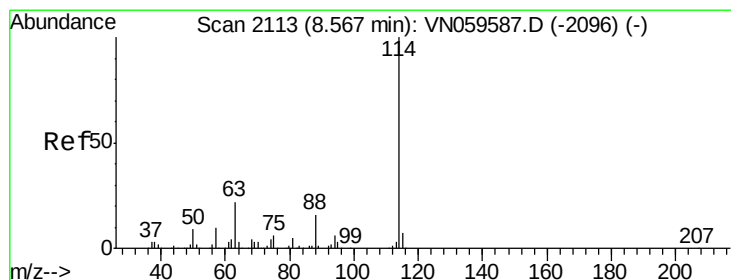
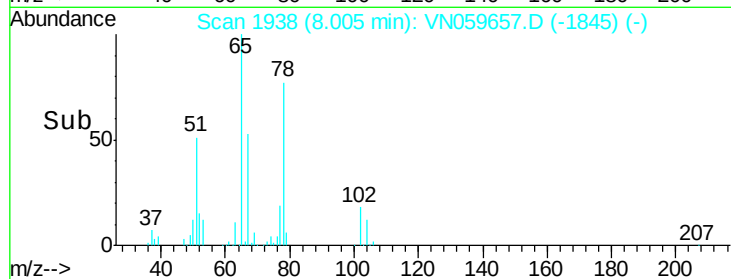
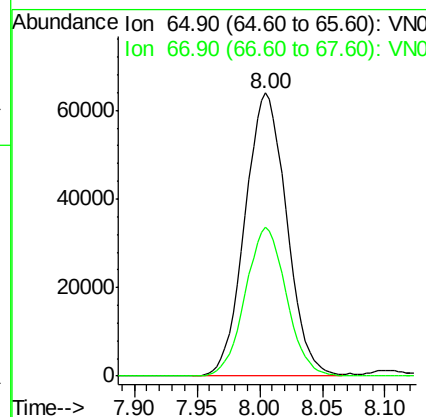
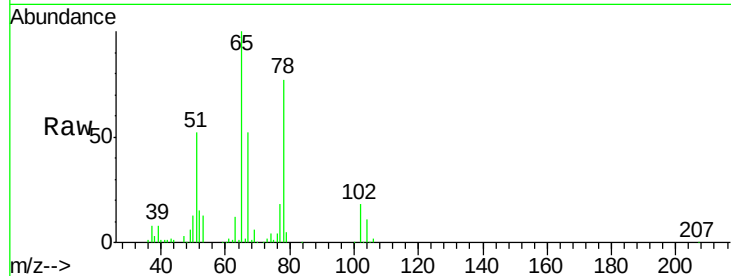
#33
 1,2-Dichloroethane-d4
 Concen: 46.575 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	147870		
67	51.7	0.0	103.0	

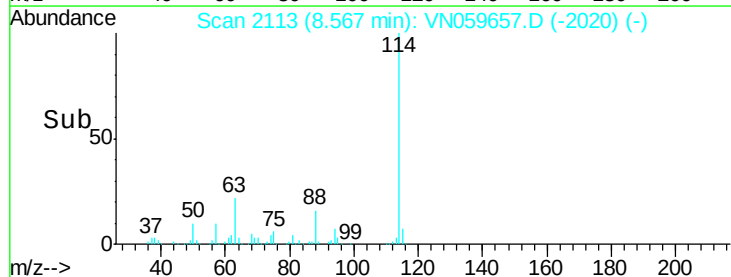
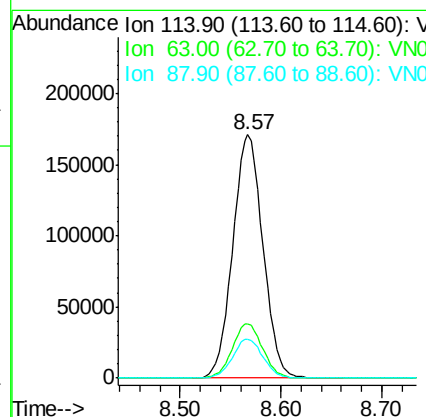
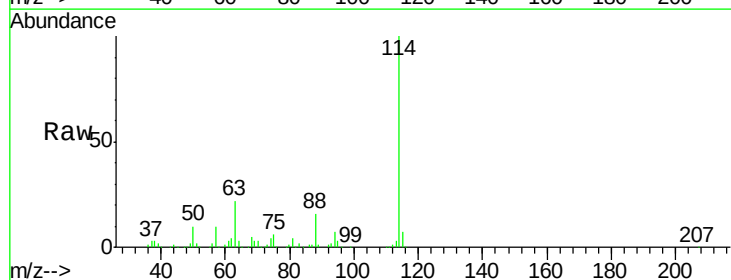
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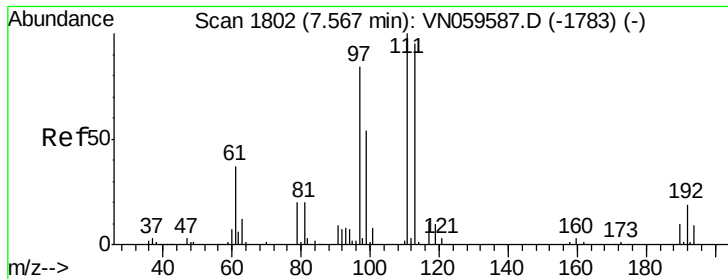
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	355537		
63	22.5	0.0	43.6	
88	15.9	0.0	31.4	





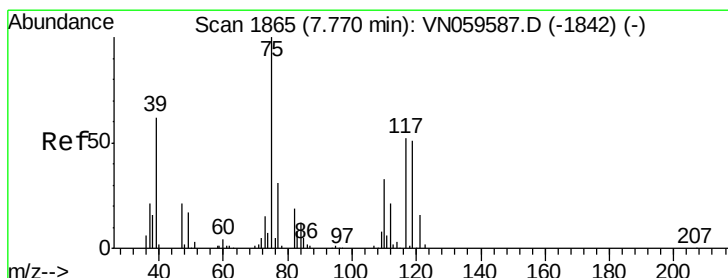
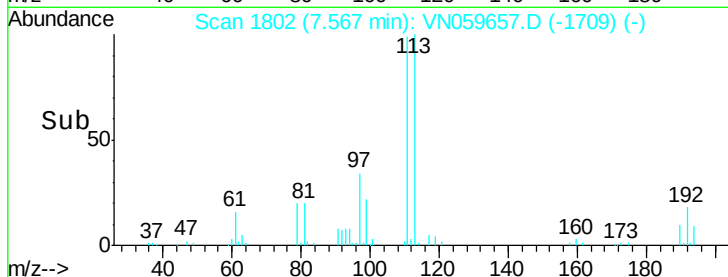
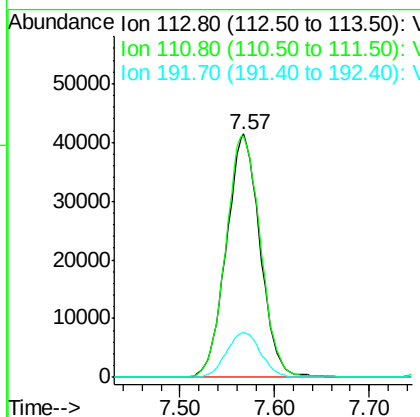
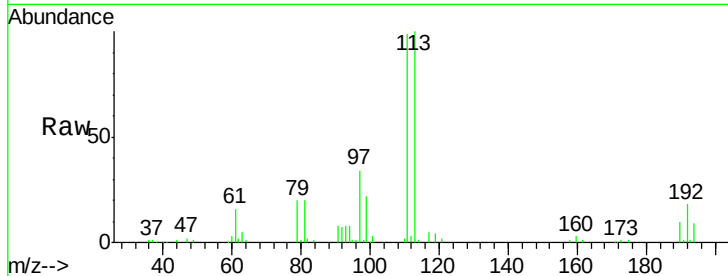
#35
Dibromofluoromethane
Concen: 46.049 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	102438		
111	101.9	83.5	125.3	
192	18.6	15.4	23.2	

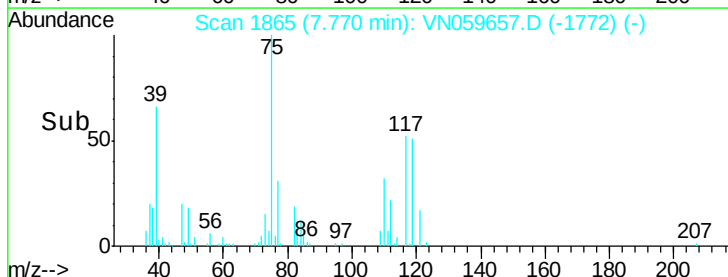
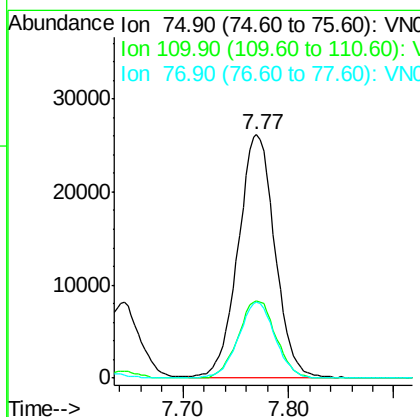
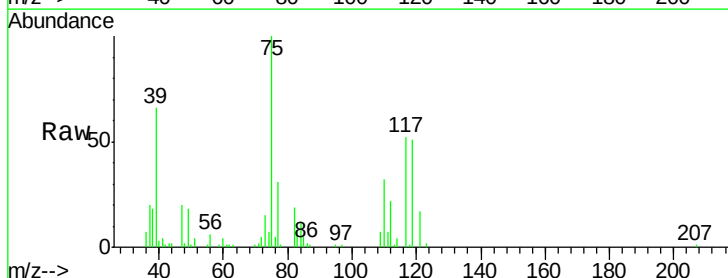
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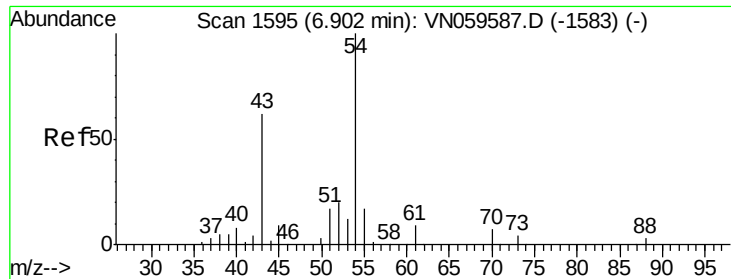
MMDadoda
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#36
1,1-Dichloropropene
Concen: 17.152 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	63595		
110	32.2	16.6	49.7	
77	31.0	25.1	37.7	





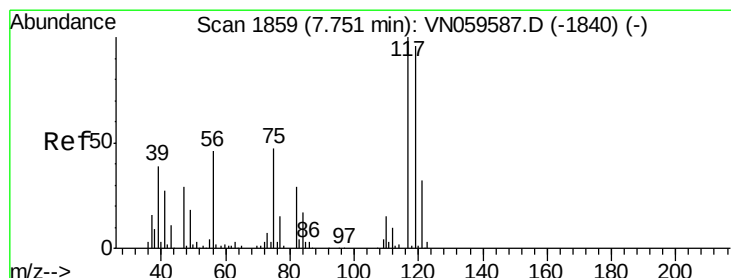
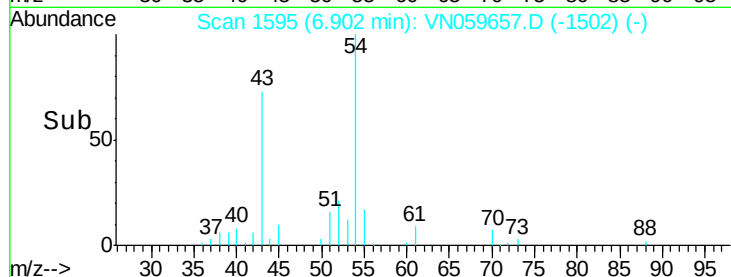
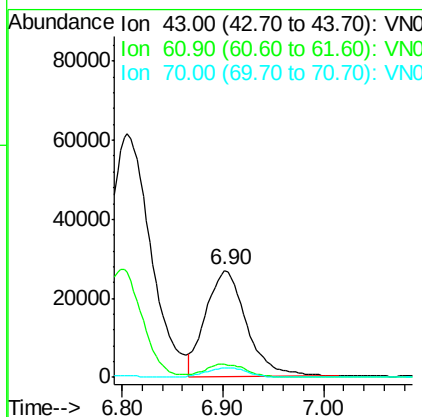
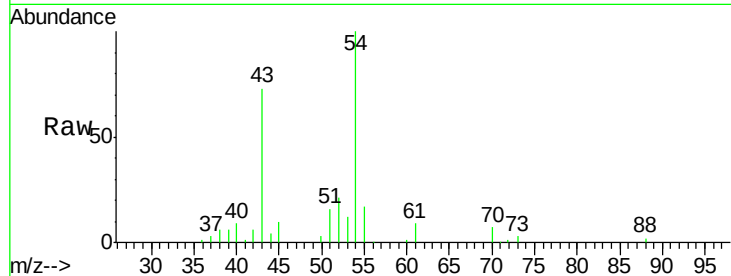
#37
Ethyl Acetate
Concen: 17.492 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.9	16.3
70	9.1	7.7	11.5

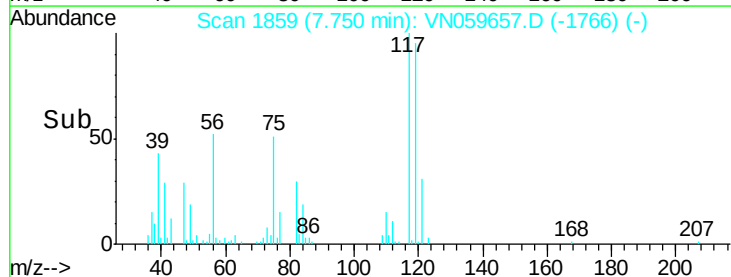
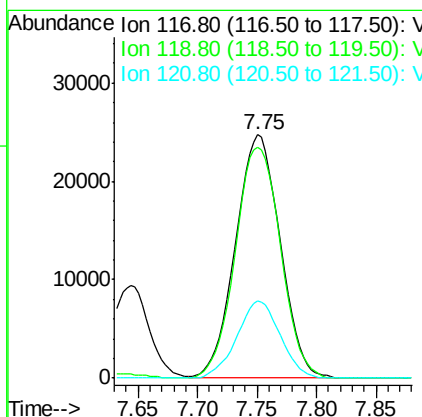
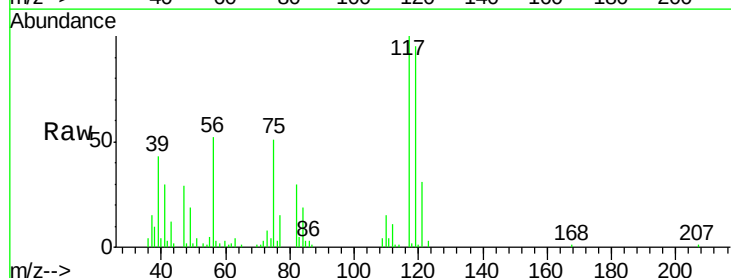
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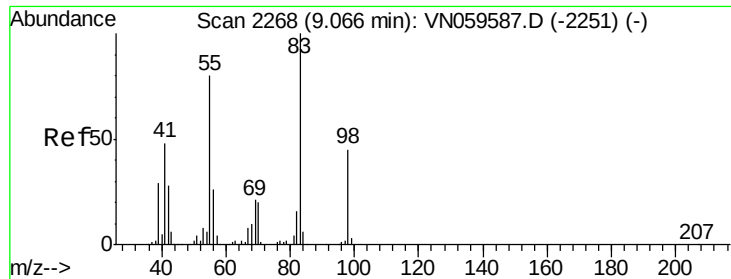
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#38
Carbon Tetrachloride
Concen: 16.719 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.5	114.7
121	31.5	25.1	37.7





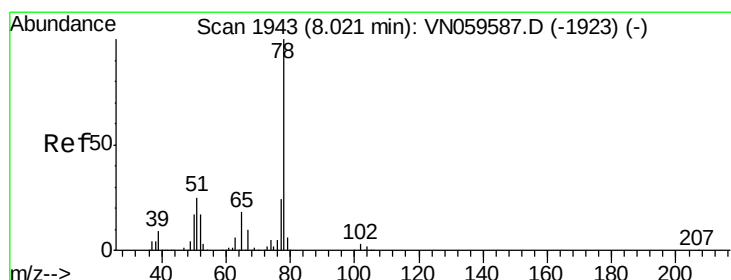
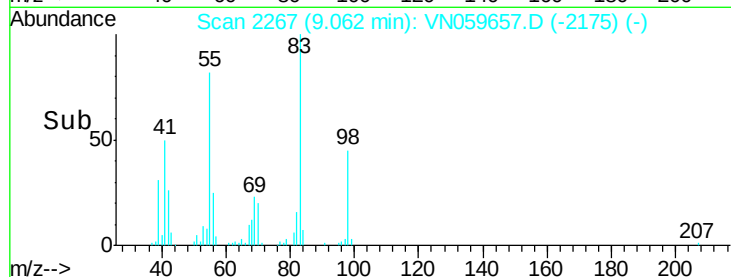
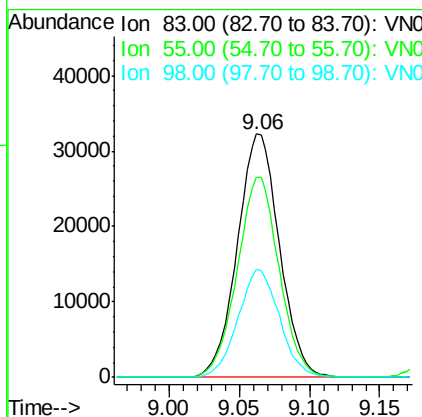
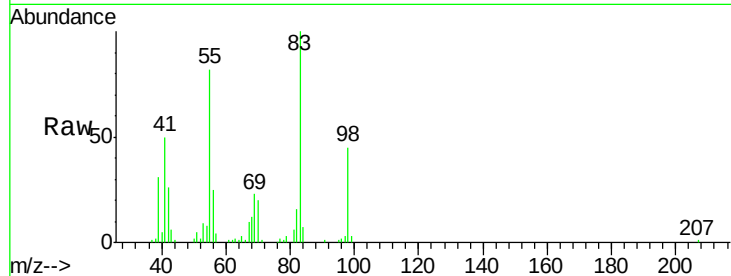
#39
Methylvlcyclohexane
Concen: 15.998 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	67284		
55	82.2		64.2	96.2
98	44.5		35.9	53.9

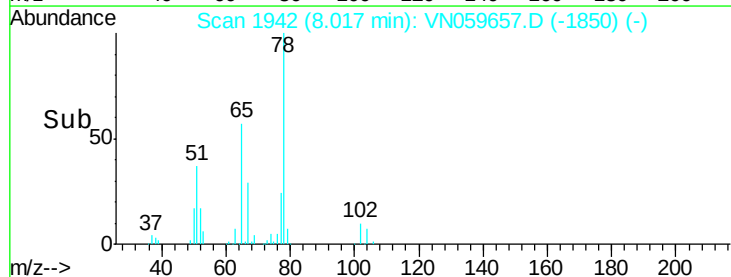
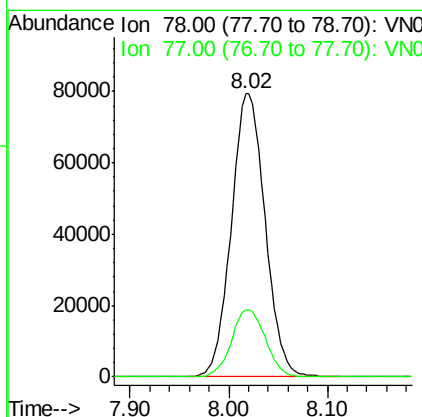
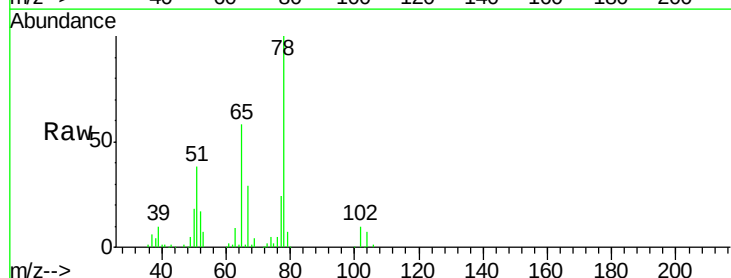
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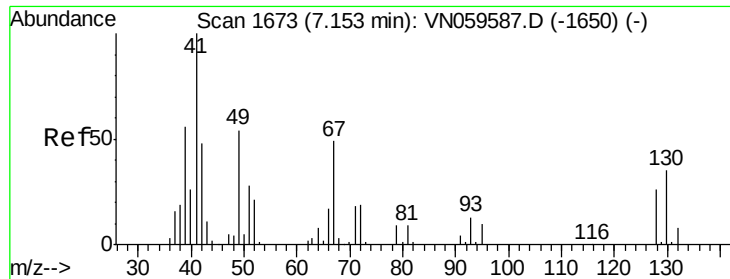
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#40
Benzene
Concen: 17.461 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	189199		
77	23.9		18.9	28.3





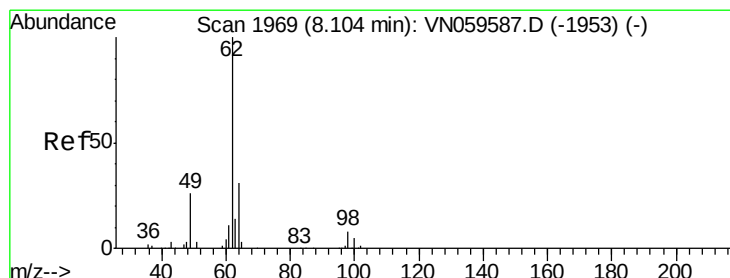
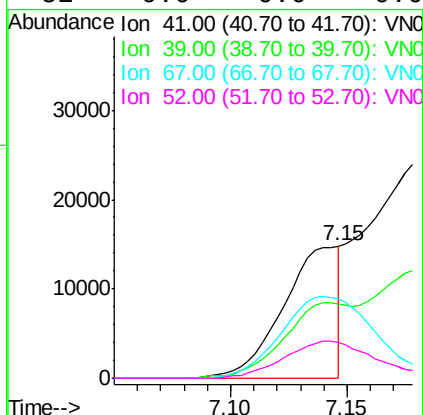
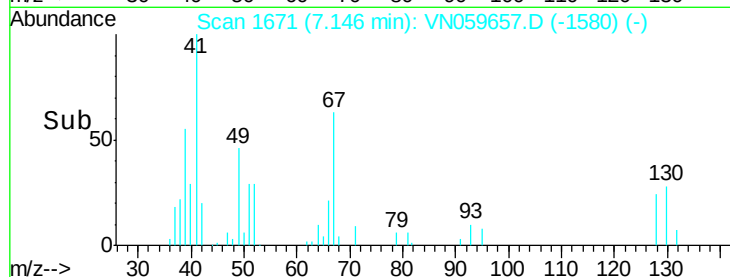
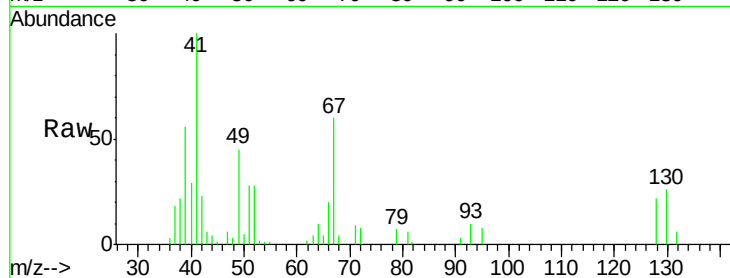
#41
Methacrylonitrile
Concen: 13.753 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.01 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	41	Resp:	24460
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

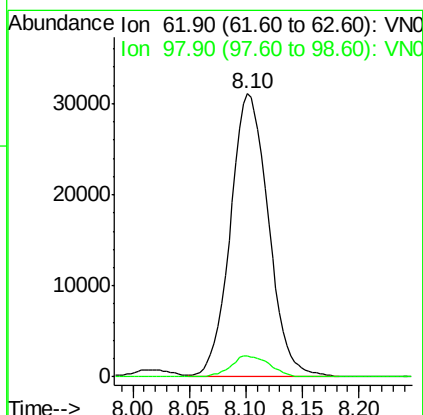
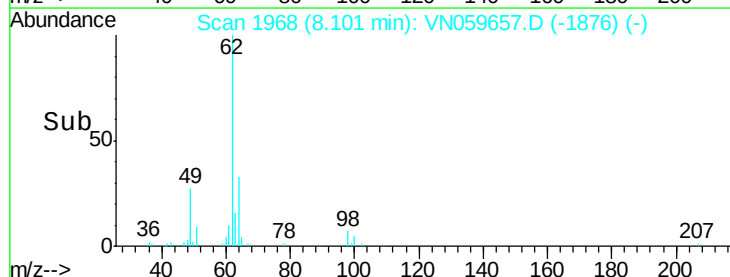
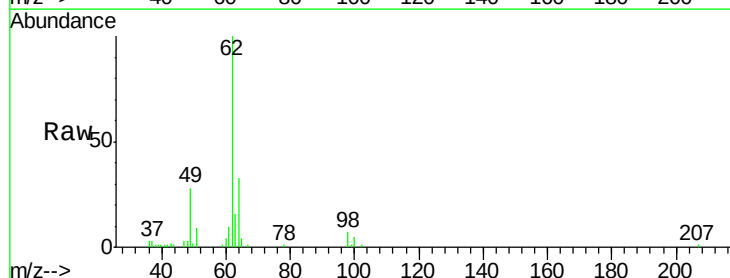
Manual Integrations
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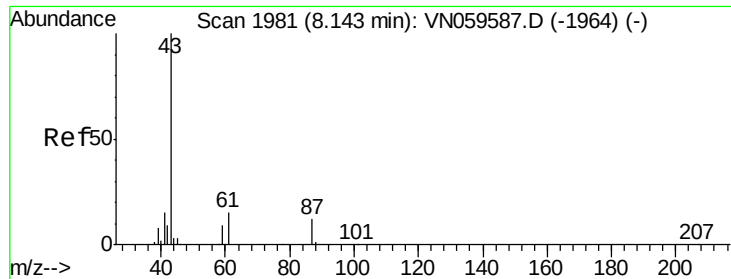
MMDadoda
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#42
1,2-Dichloroethane
Concen: 17.536 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	62	Resp:	72767
Ion Ratio	Lower	Upper	
62	100		
98	7.4	0.0	15.8





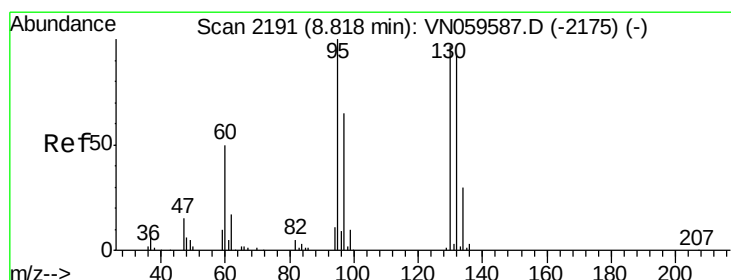
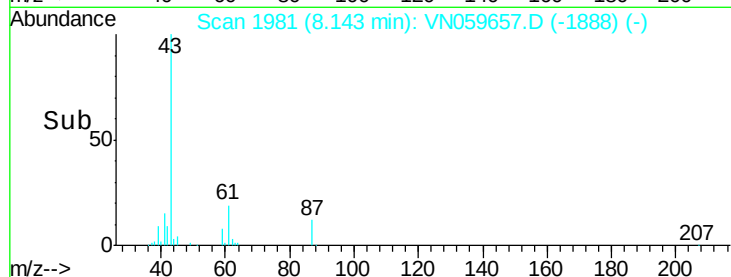
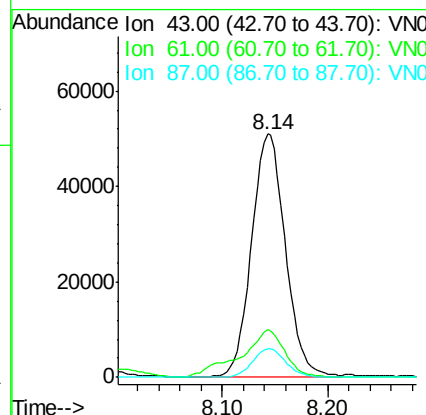
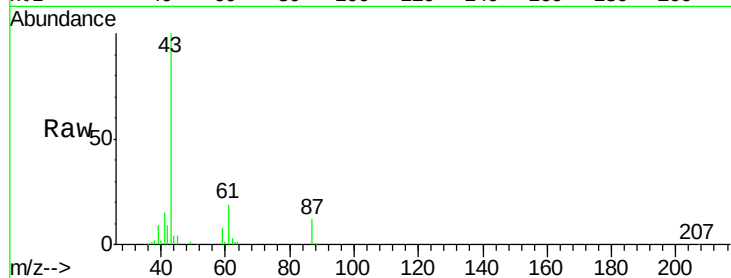
#43
Isopropyl Acetate
Concen: 17.094 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.7	20.2	30.2
87	11.5	9.5	14.3

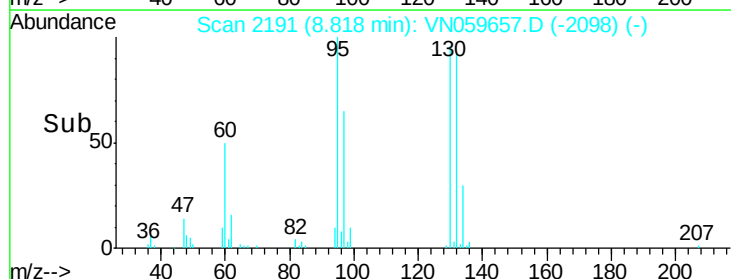
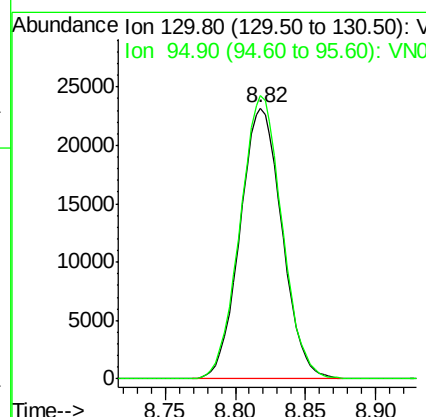
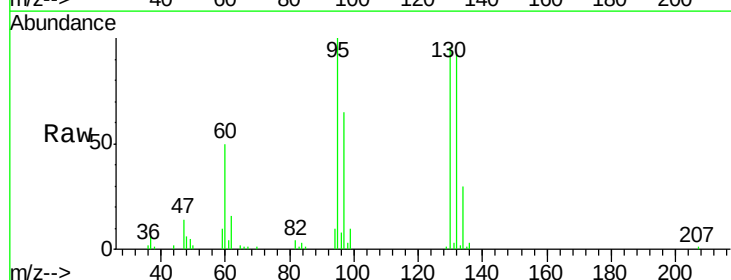
Manual Integrations
APPROVED

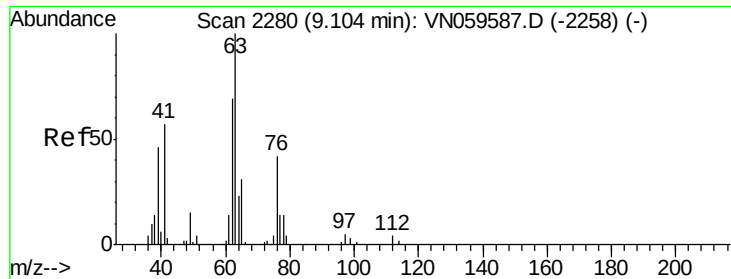
MMDadoda
12/19/2019 11:12:05 AM



#44
Trichloroethene
Concen: 17.040 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.6	0.0	207.0





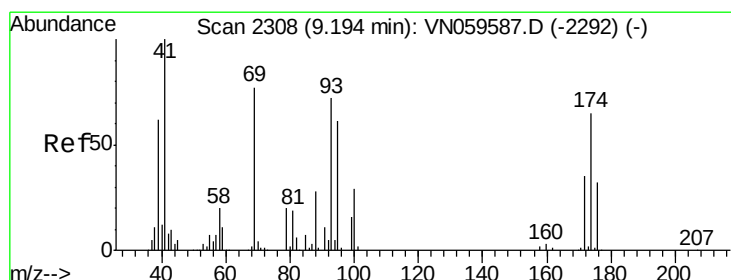
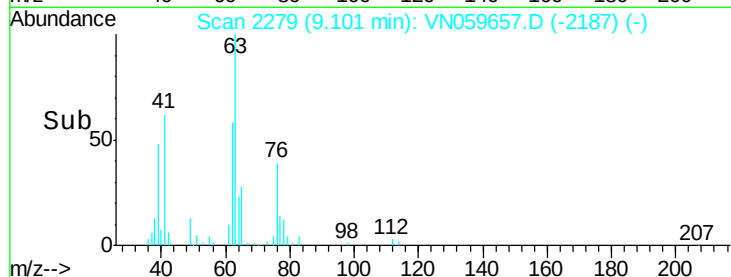
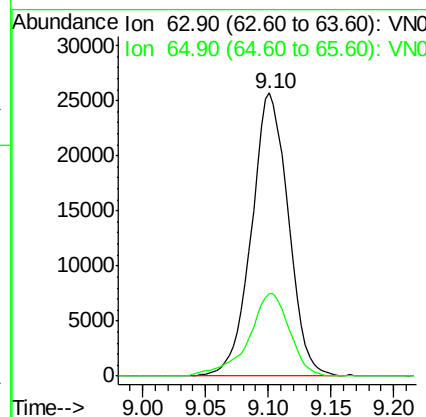
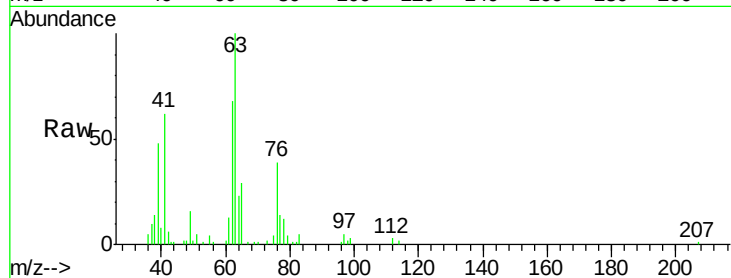
#45
 1,2-Dichloropropane
 Concen: 17.950 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.9	37.3

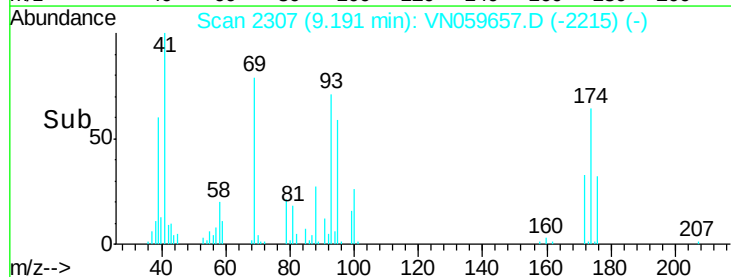
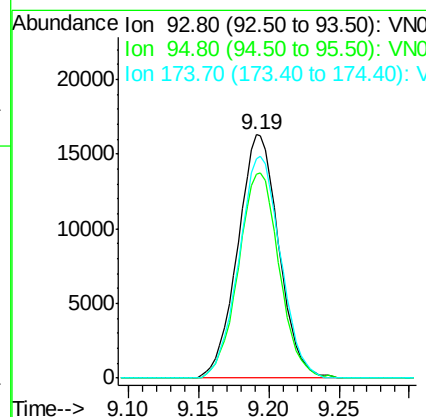
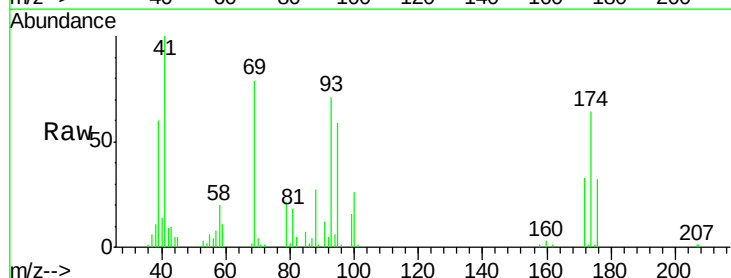
Manual Integrations
 APPROVED

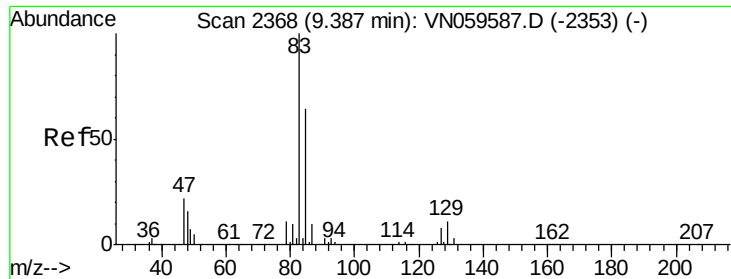
MMDadoda
 12/19/2019 11:12:05 AM



#46
 Dibromomethane
 Concen: 17.311 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.0	100.6
174	92.1	73.4	110.2





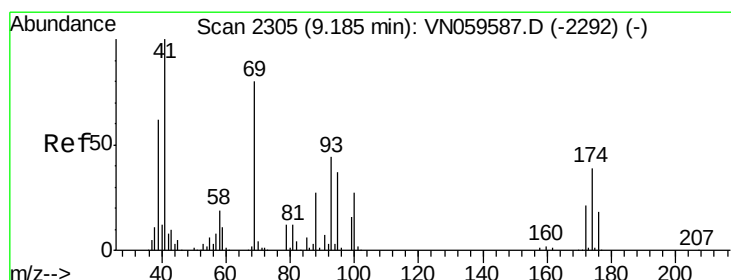
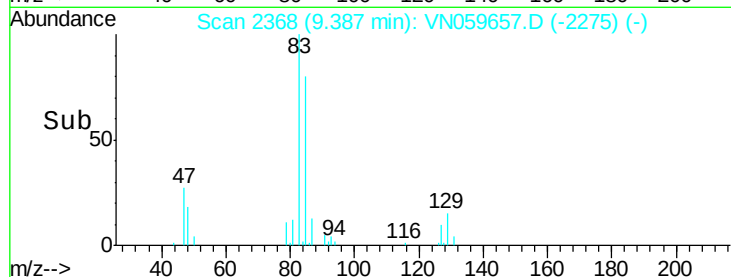
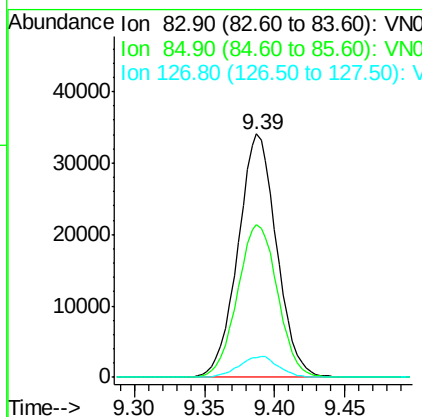
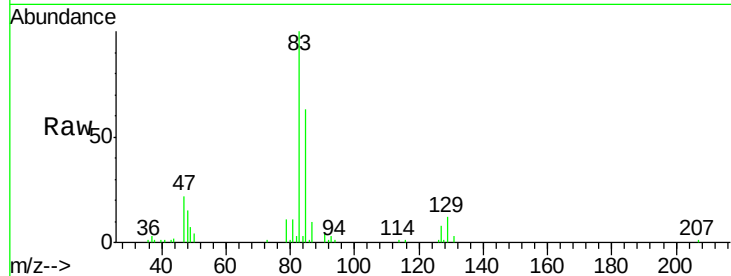
#47
Bromodichloromethane
Concen: 17.090 ug/l
RT: 9.39 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.1	76.7
127	8.2	6.6	9.8

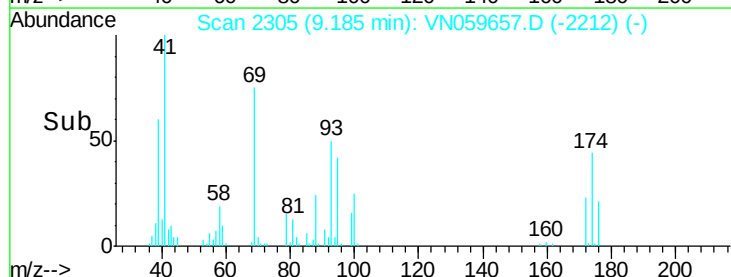
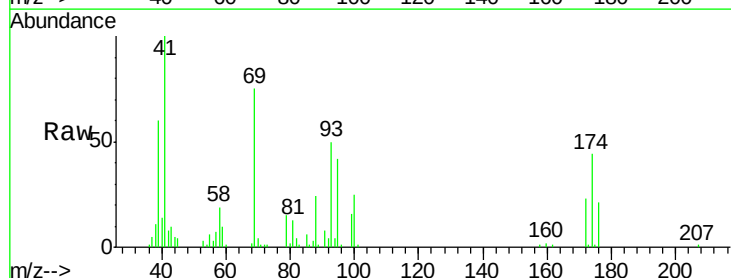
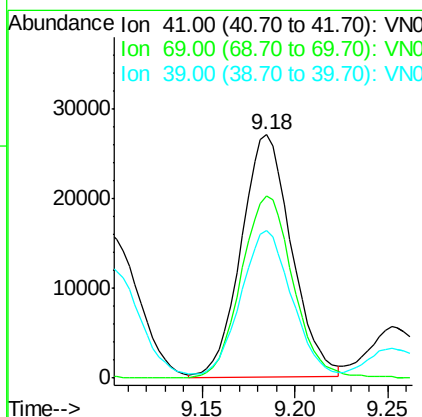
Manual Integrations
APPROVED

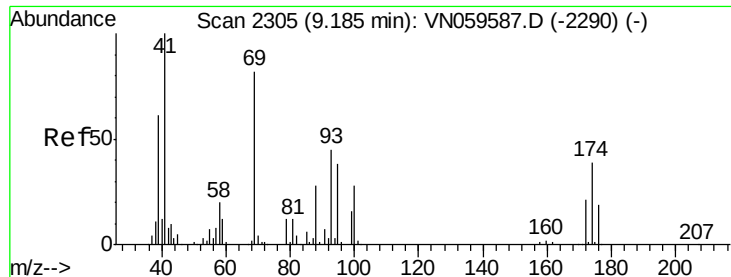
MMDadoda
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#48
Methyl methacrylate
Concen: 16.887 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
41	100		
69	77.3	64.4	96.6
39	61.4	51.3	76.9





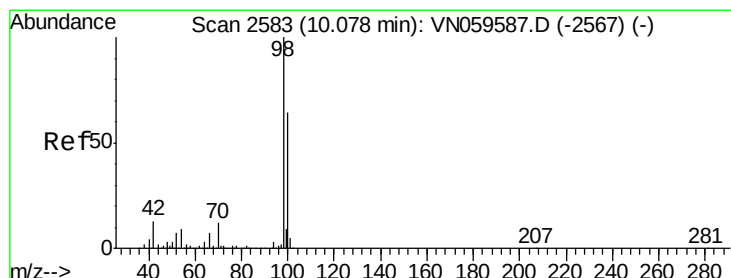
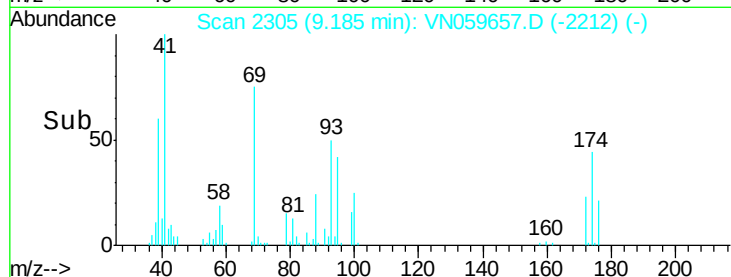
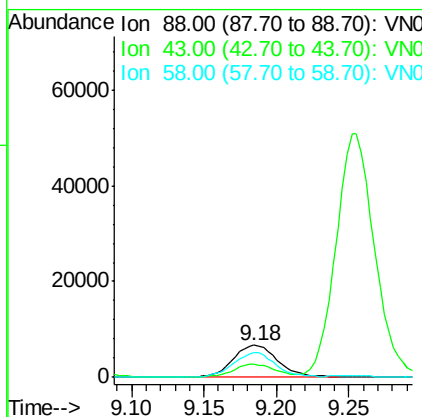
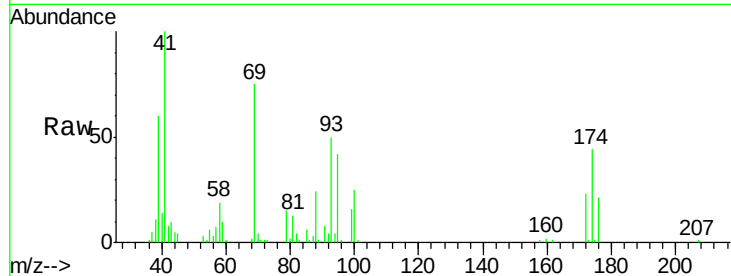
#49
1,4-Dioxane
Concen: 332.244 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	88	Resp	14473
Ion	Ratio	Lower	Upper
88	100		
43	38.8	29.7	44.5
58	72.9	56.6	85.0

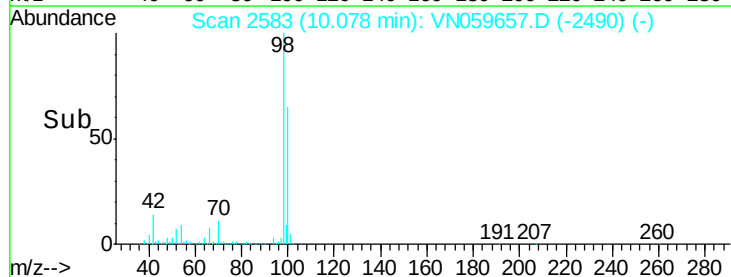
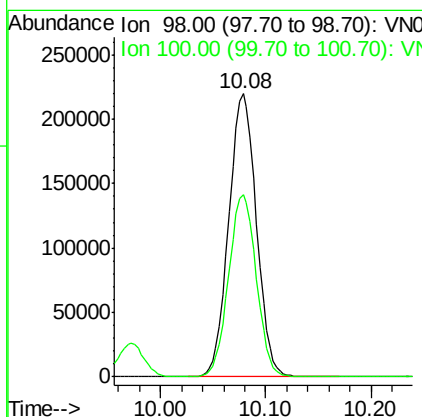
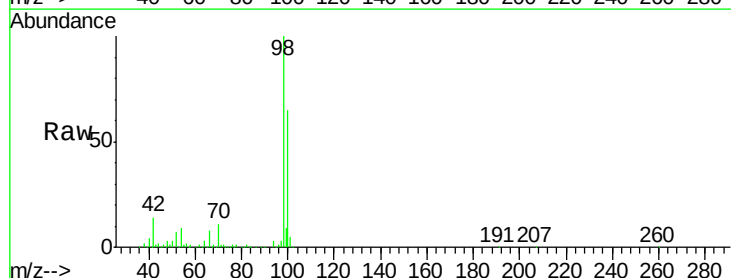
Manual Integrations
APPROVED

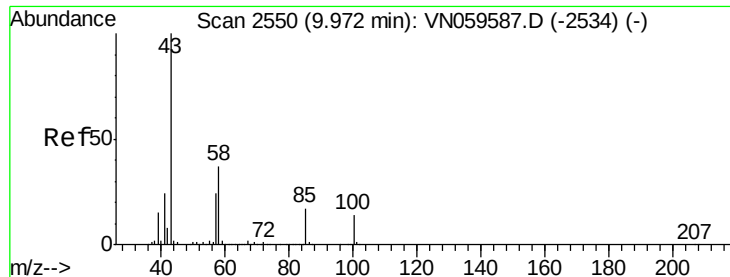
MMDadoda
12/19/2019 11:12:05 AM



#50
Toluene-d8
Concen: 45.244 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	98	Resp	398483
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.2	76.8





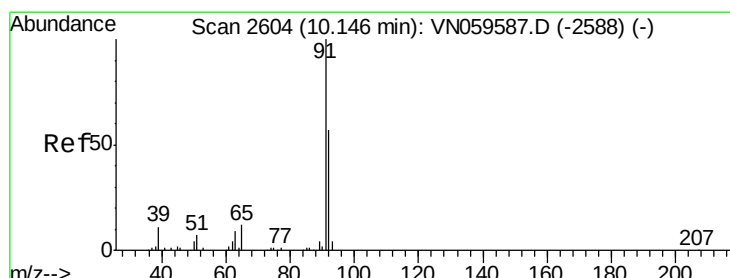
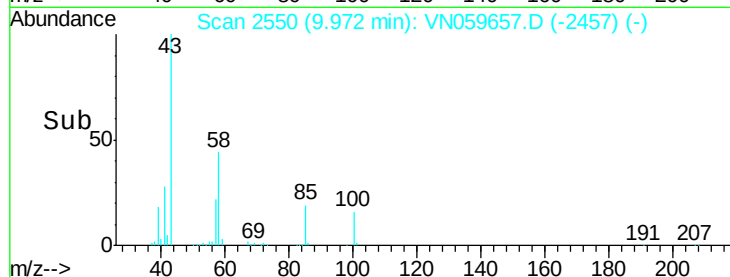
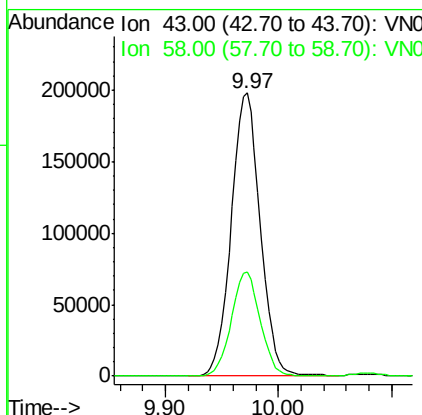
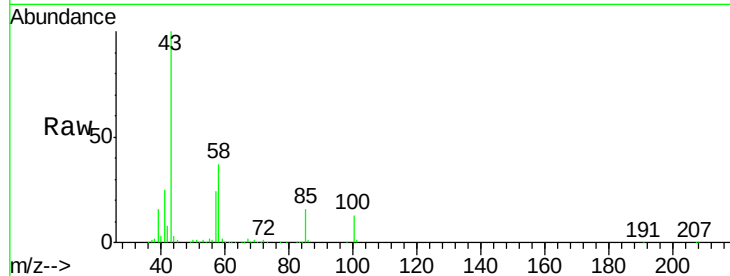
#51
4-Methyl-2-Pentanone
Concen: 88.226 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.8	44.8

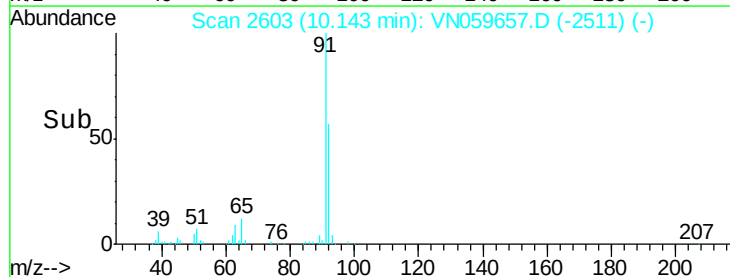
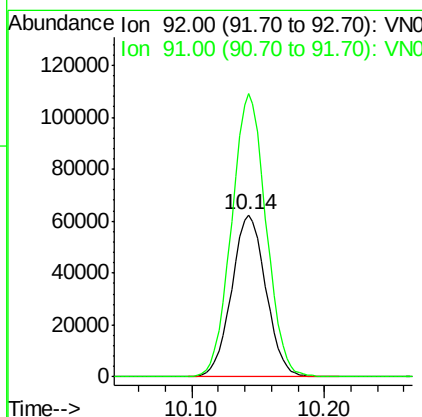
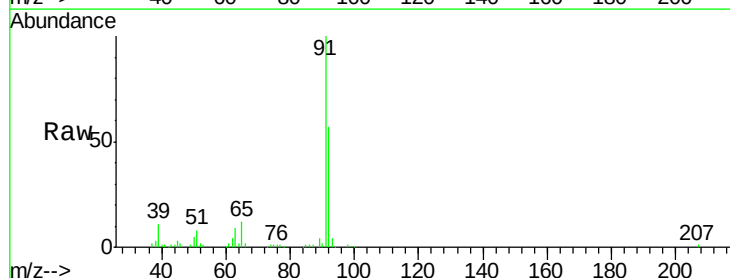
Manual Integrations
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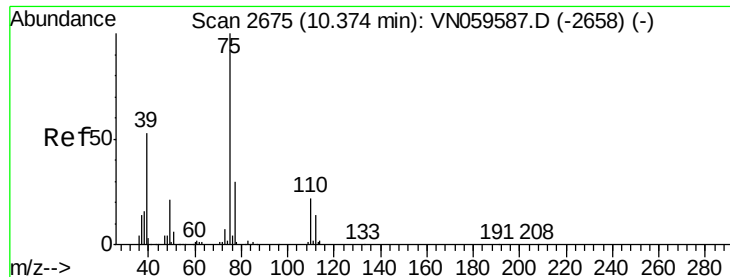
MMDadoda
12/19/2019 11:12:05 AM



#52
Toluene
Concen: 16.812 ug/l
RT: 10.14 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.7	140.4	210.6





#53

t-1,3-Dichloropropene

Concen: 16.981 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 75 Resp: 75057

Ion Ratio Lower Upper

75 100

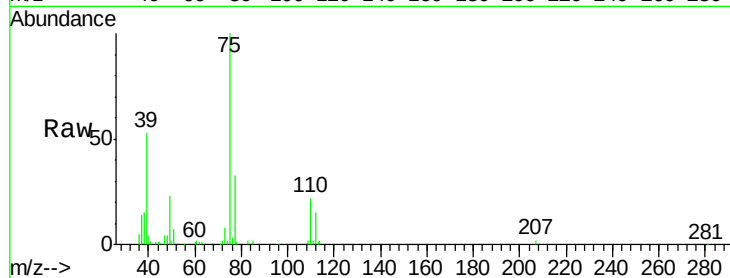
77 32.0 25.4 38.2

Manual Integrations

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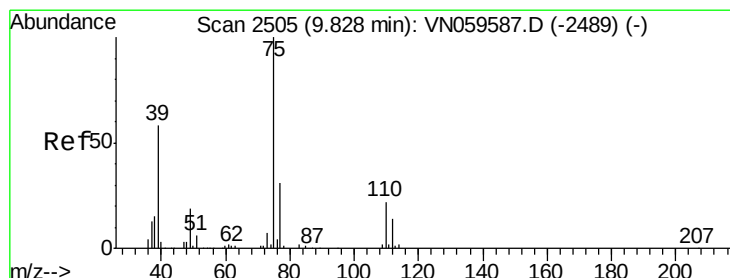
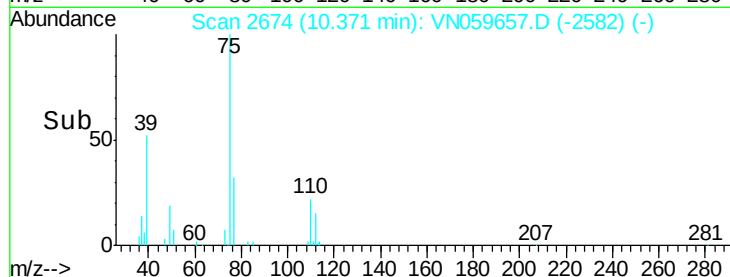
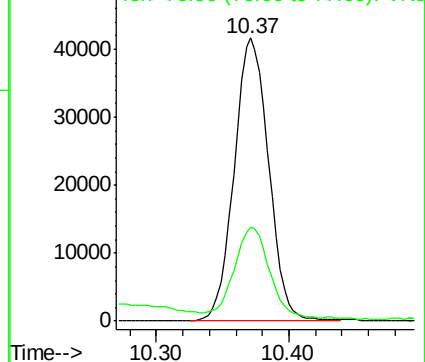
MMDadoda

12/19/2019 11:12:05 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 16.988 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

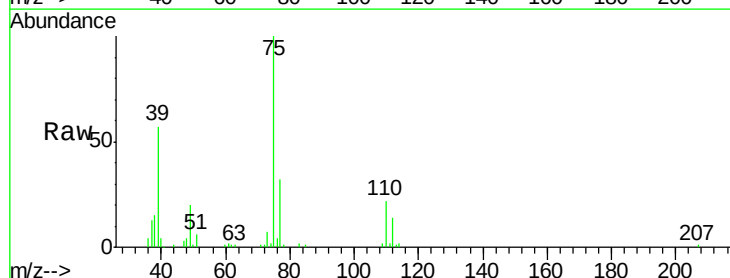
Tgt Ion: 75 Resp: 78932

Ion Ratio Lower Upper

75 100

77 32.1 25.1 37.7

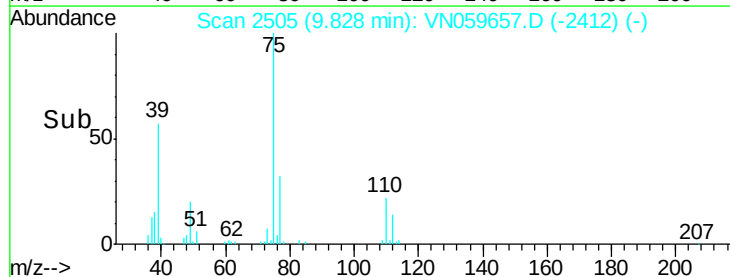
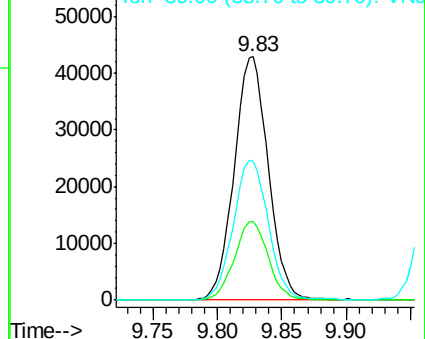
39 56.9 46.1 69.1

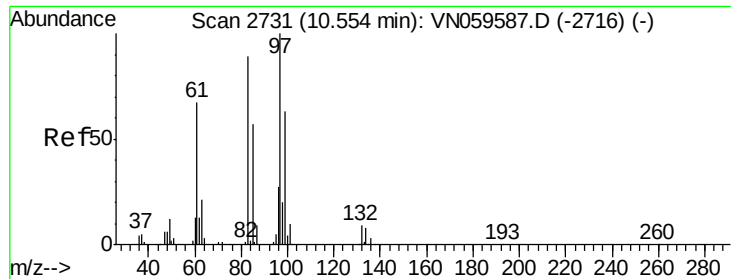


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 17.572 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

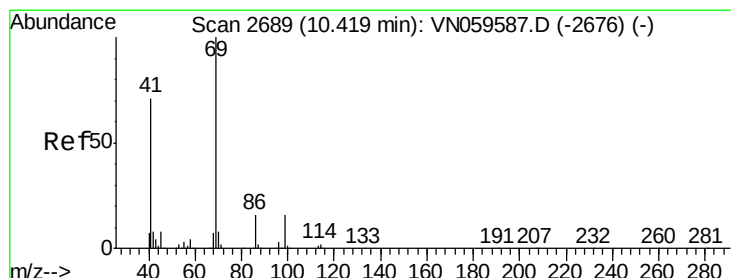
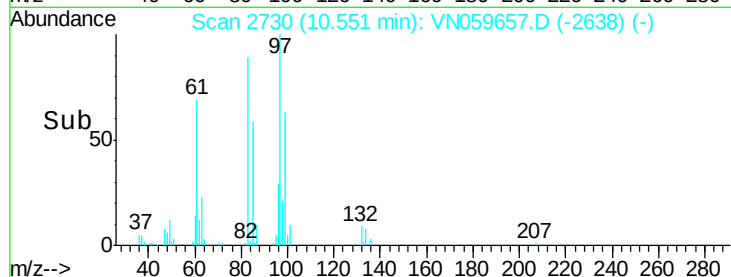
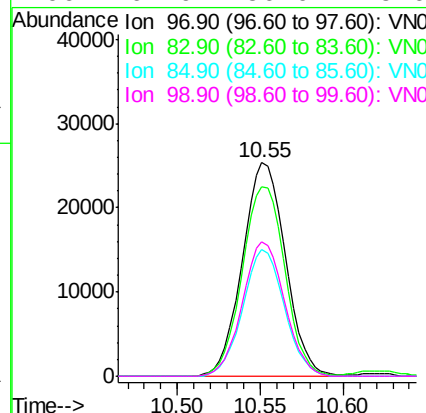
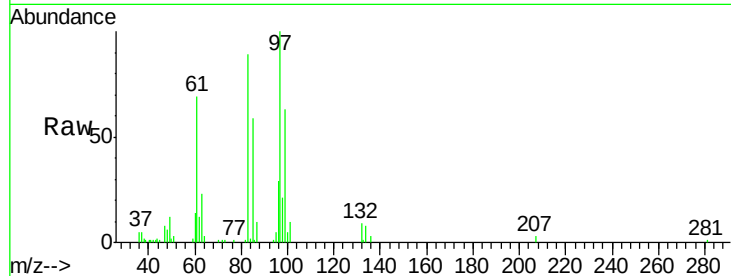
ClientSampleId :

VN1218WBSD02

Tot Ion:	97	Resp:	45907
Ion	Ratio	Lower	Upper
97	100		
83	88.7	71.3	106.9
85	59.4	45.8	68.8
99	62.9	50.0	75.0

Manual Integrations
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#56

Ethyl methacrylate

Concen: 16.275 ug/l

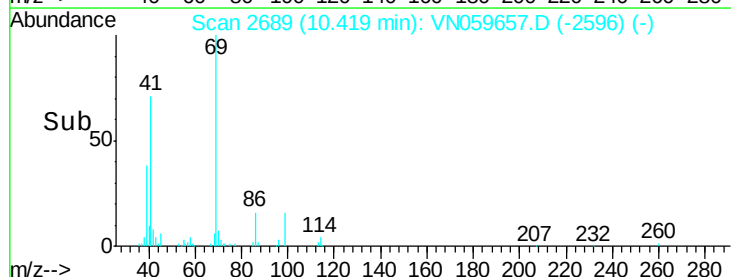
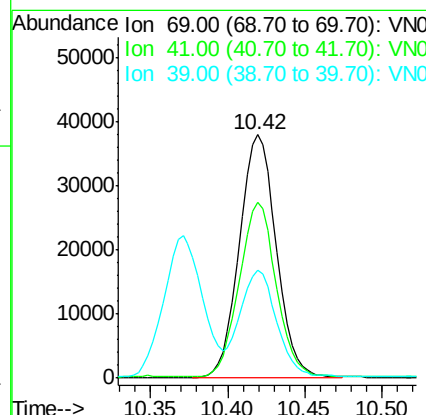
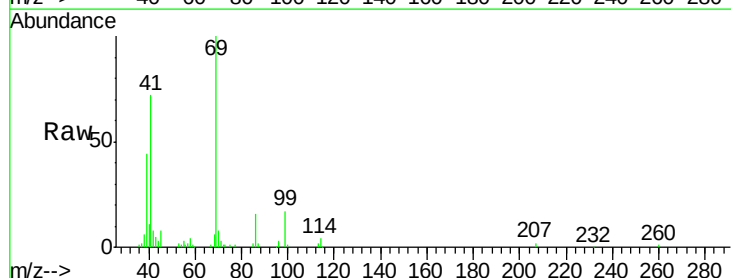
RT: 10.42 min Scan# 2689

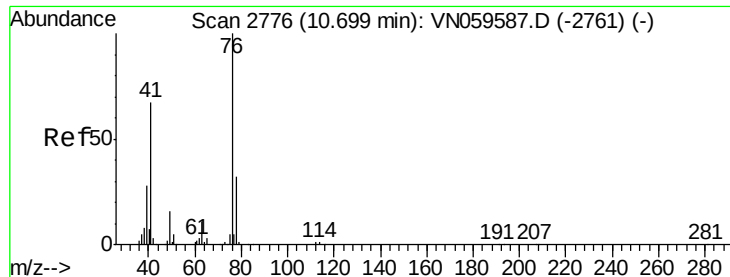
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	69	Resp:	63121
Ion	Ratio	Lower	Upper
69	100		
41	71.7	57.1	85.7
39	43.8	34.7	52.1





#57

1,3-Dichloropropane

Concen: 17.514 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 76 Resp: 79666

Ion Ratio Lower Upper

76 100

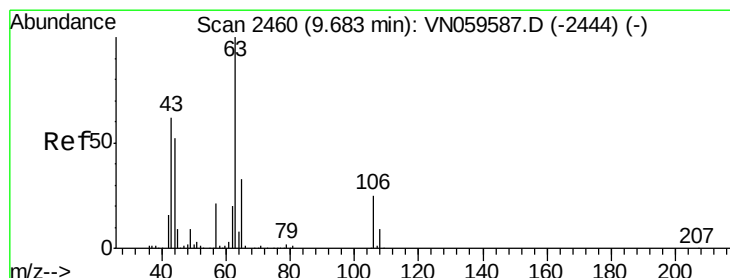
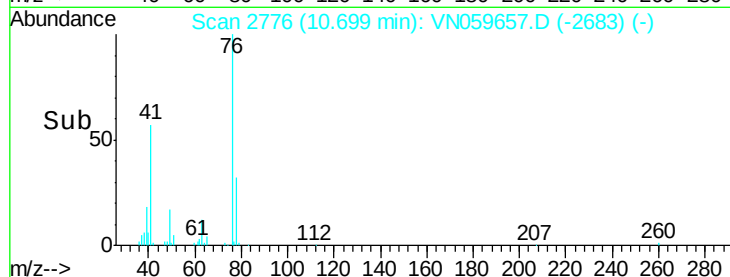
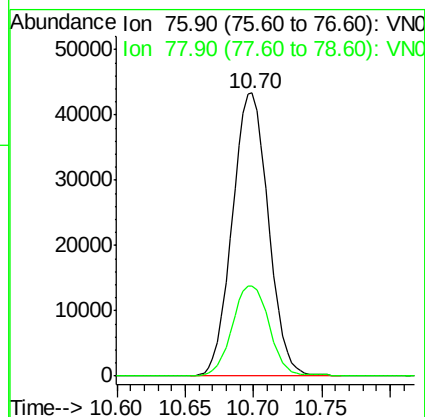
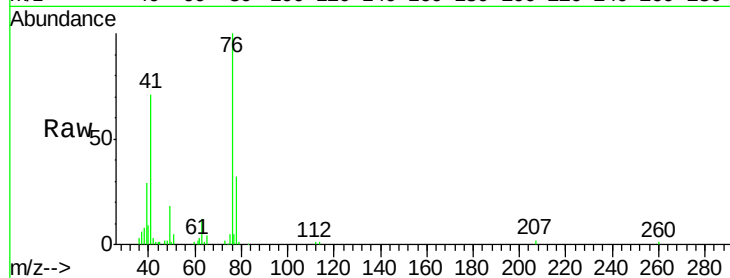
78 32.7 25.8 38.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 93.276 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059657.D

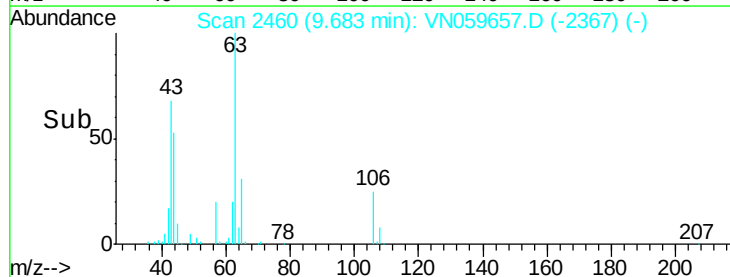
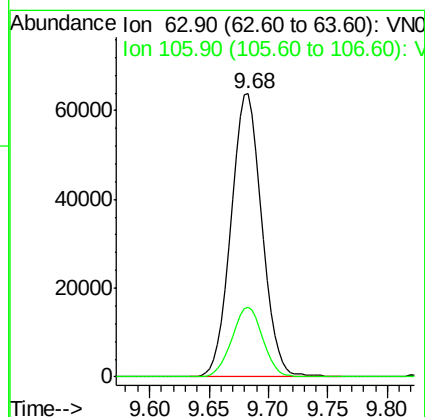
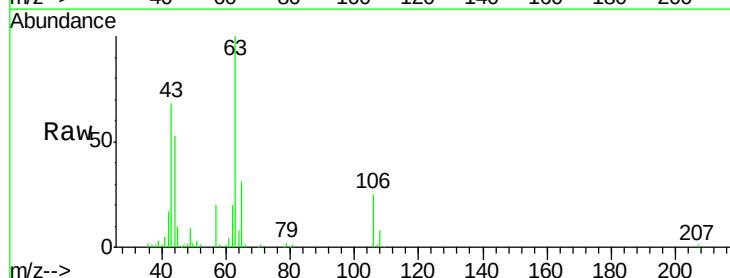
Acq: 18 Dec 2019 18:16

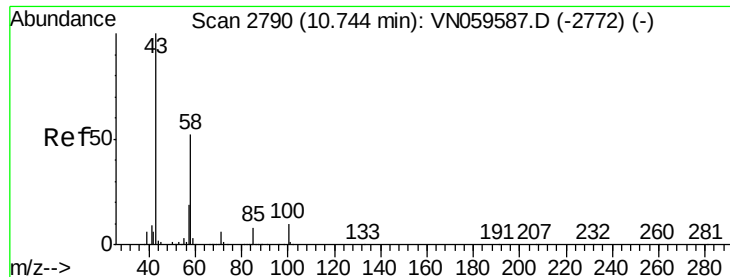
Tgt Ion: 63 Resp: 115053

Ion Ratio Lower Upper

63 100

106 24.4 20.2 30.2





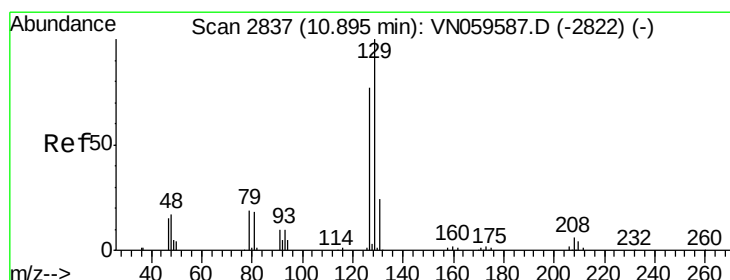
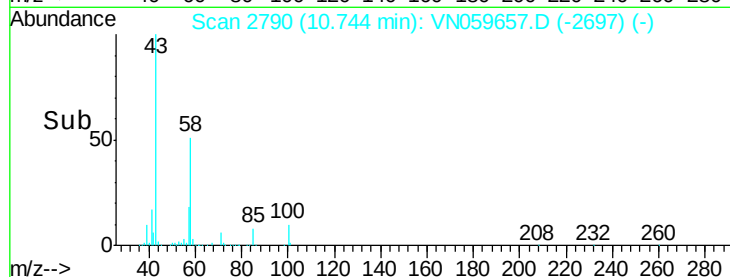
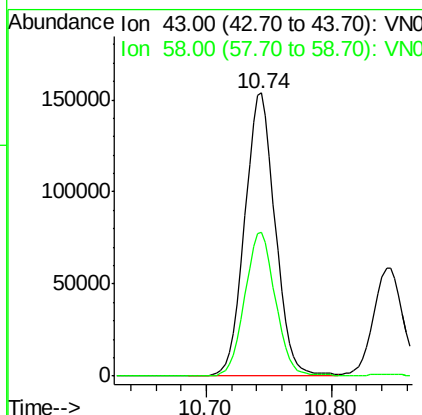
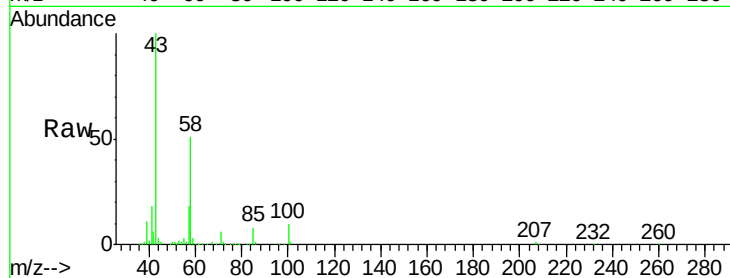
#59
2-Hexanone
Concen: 82.580 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	43	Resp	259989
Ion Ratio	43	100	
Lower	58	51.1	25.8
Upper			77.3

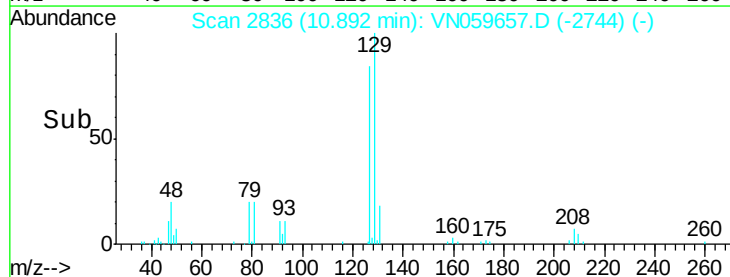
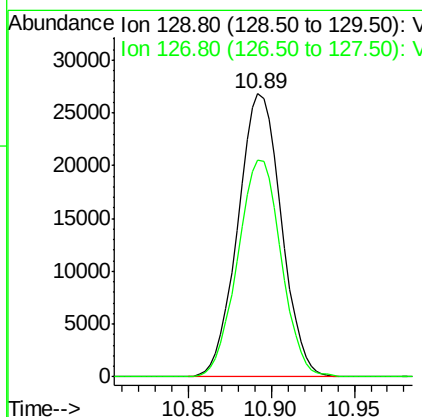
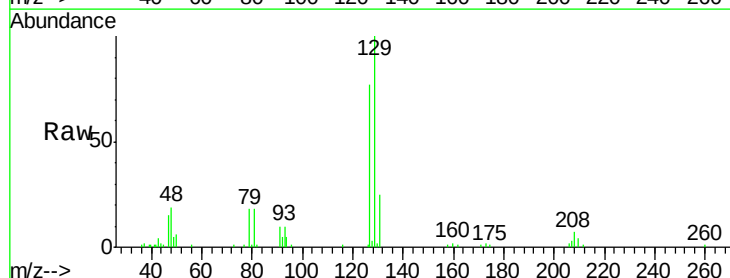
Manual Integrations
APPROVED

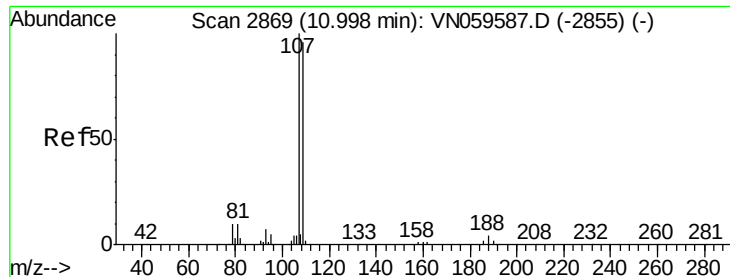
MMDadoda
12/19/2019 11:12:05 AM



#60
Dibromochloromethane
Concen: 17.126 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	129	Resp	48832
Ion Ratio	129	100	
Lower	127	76.9	38.5
Upper			115.5





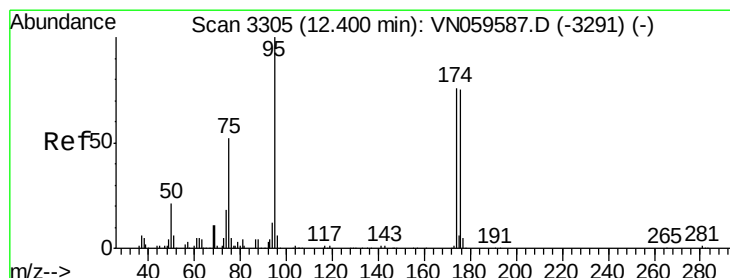
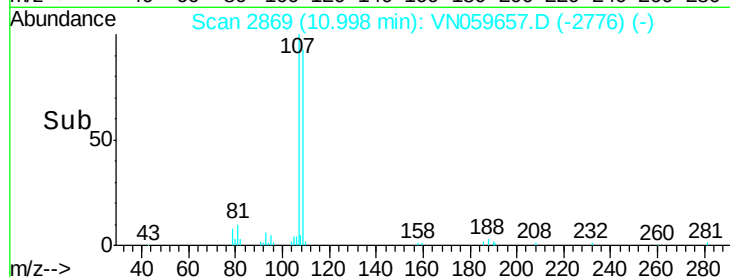
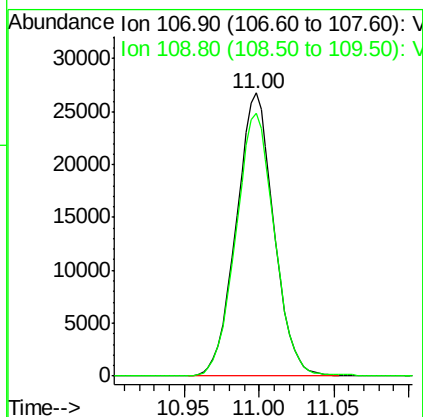
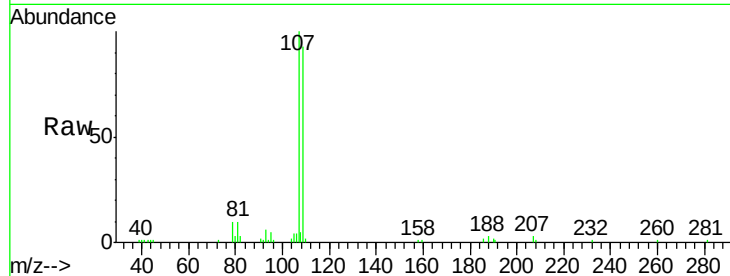
#61
 1,2-Dibromoethane
 Concen: 16.846 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion: 107 Resp: 46674
 Ion Ratio Lower Upper
 107 100
 109 95.3 76.6 115.0

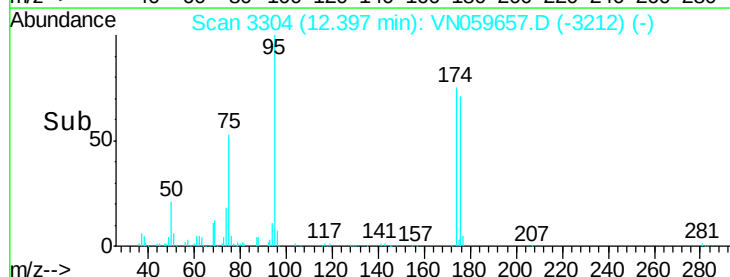
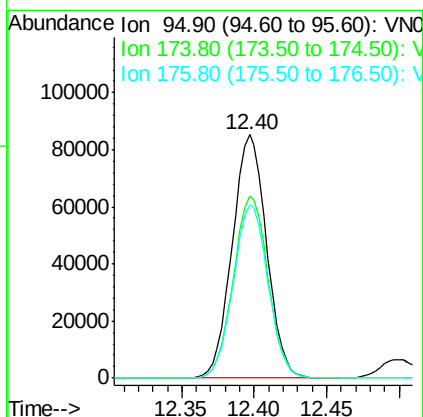
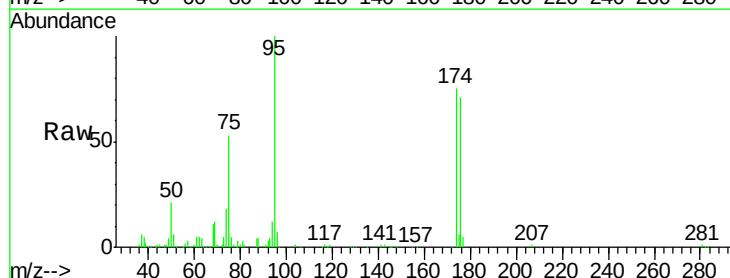
Manual Integrations
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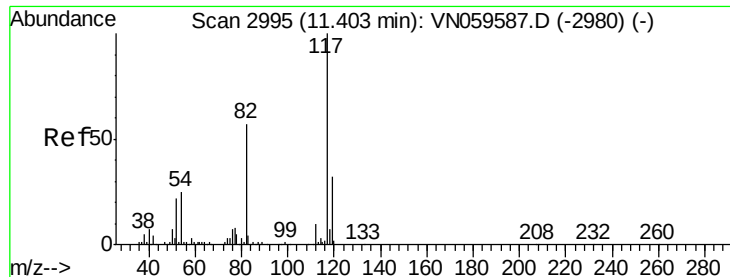
MMDadoda
 12/19/2019 11:12:05 AM



#62
 4-Bromofluorobenzene
 Concen: 43.562 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion: 95 Resp: 139996
 Ion Ratio Lower Upper
 95 100
 174 75.7 0.0 151.4
 176 72.4 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: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

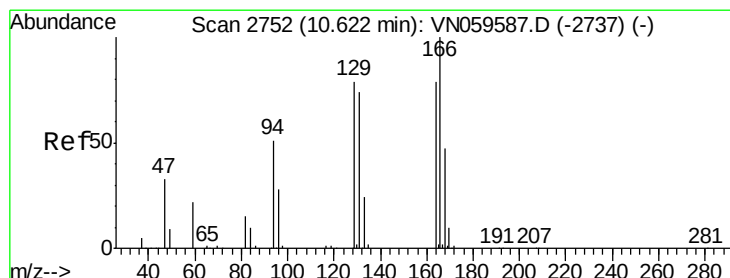
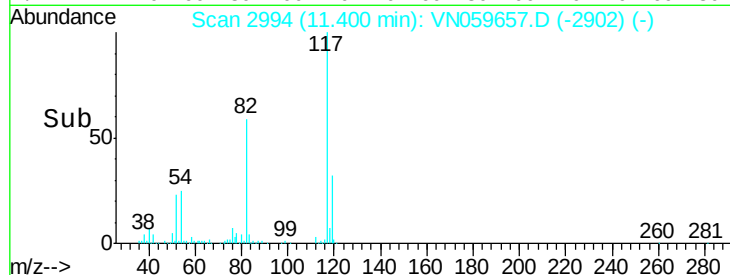
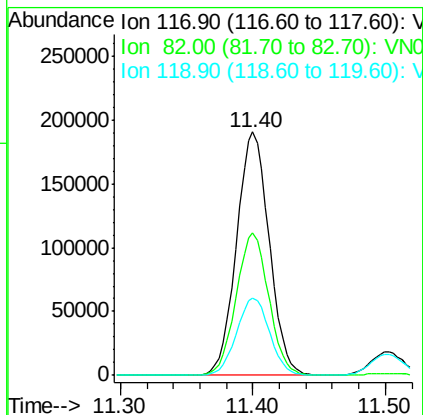
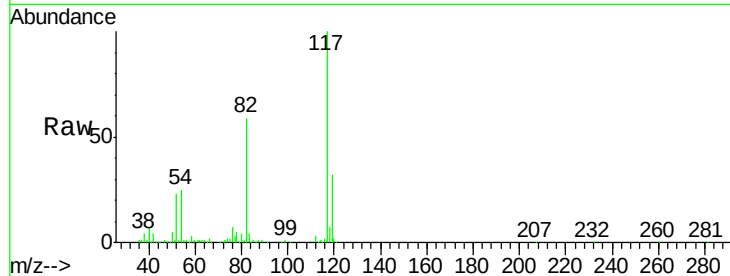
ClientSampleId :

VN1218WBSD02

Tot Ion:	117	Resp:	326205
Ion Ratio	Lower	Upper	
117	100		
82	58.5	45.9	68.9
119	31.8	25.5	38.3

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#64

Tetrachloroethene

Concen: 14.957 ug/l

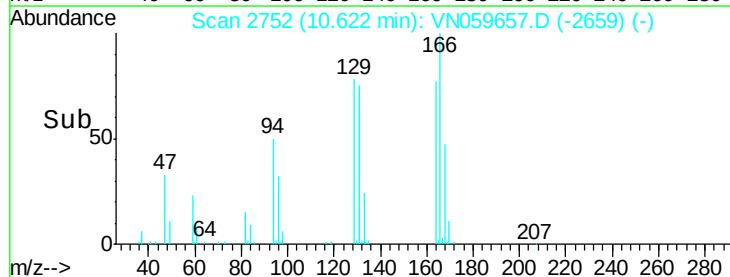
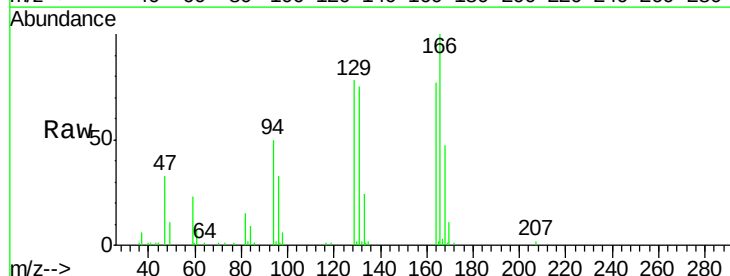
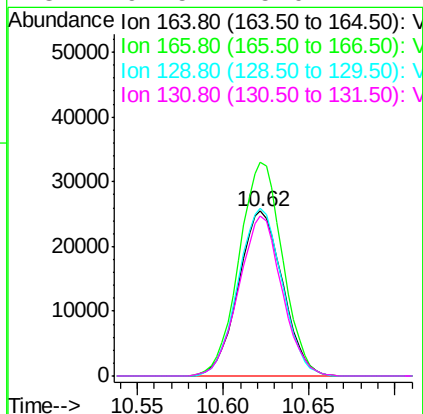
RT: 10.62 min Scan# 2752

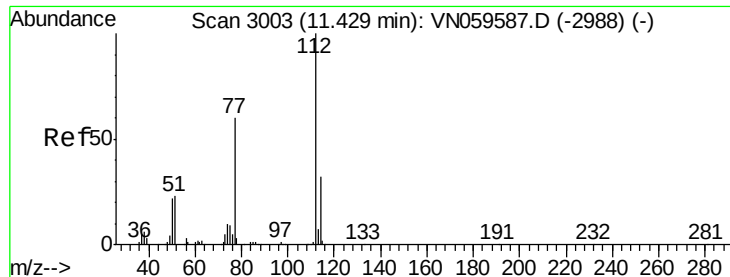
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	164	Resp:	45481
Ion Ratio	Lower	Upper	
164	100		
166	129.8	101.4	152.0
129	101.5	80.2	120.4
131	97.5	75.0	112.4





#65

Chlorobenzene

Concen: 16.695 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion:112 Resp: 117838

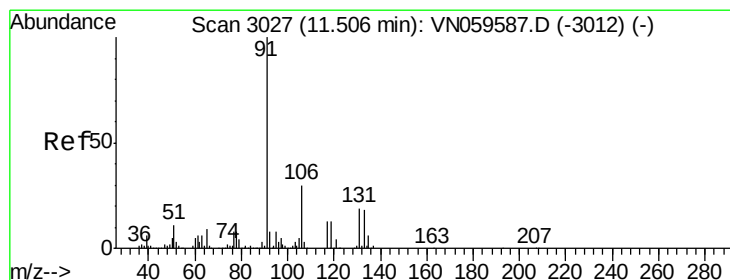
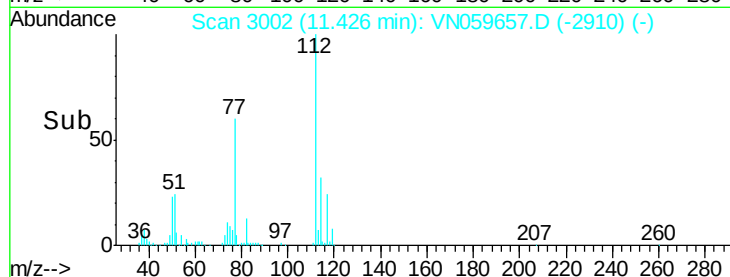
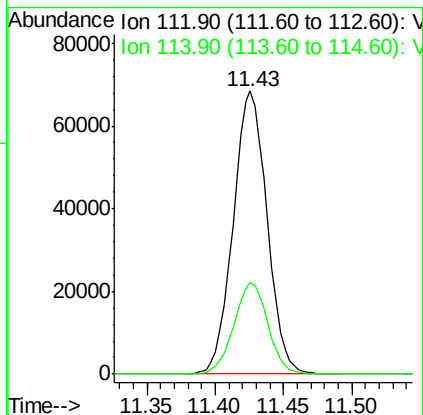
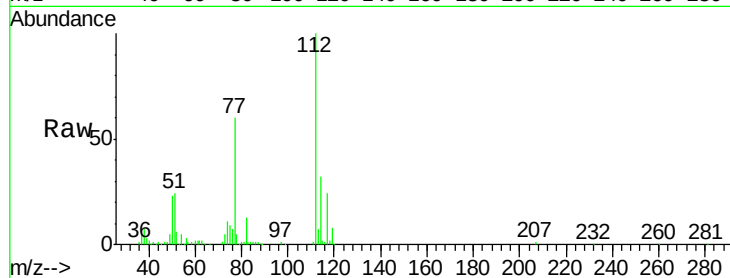
Ion Ratio Lower Upper

112 100

114 32.4 25.8 38.8

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#66

1,1,1,2-Tetrachloroethane

Concen: 16.234 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

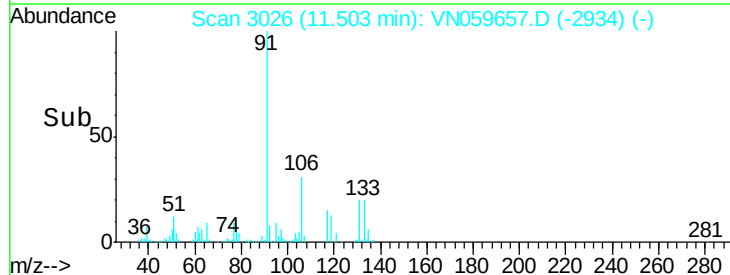
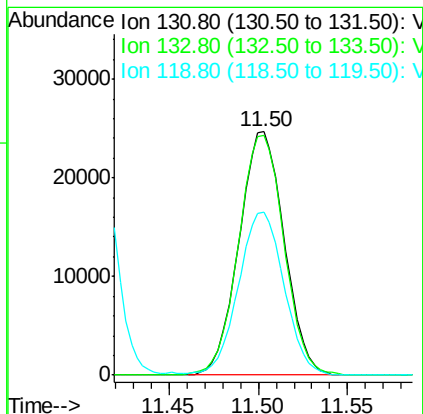
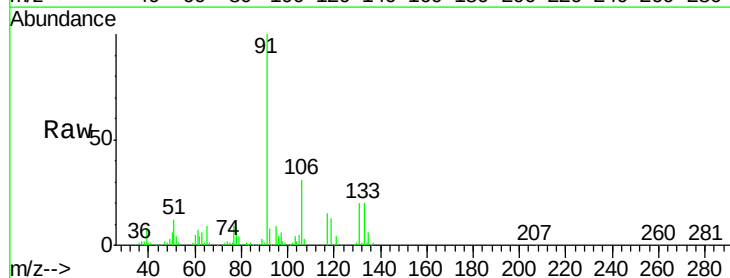
Tgt Ion:131 Resp: 43524

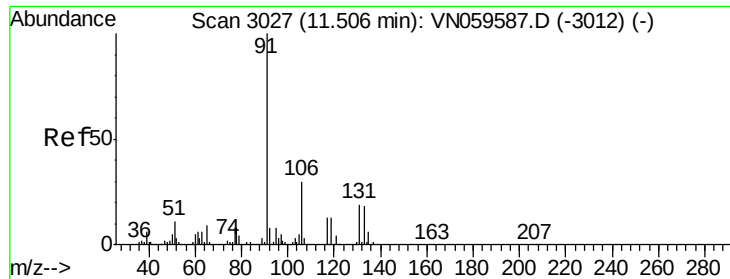
Ion Ratio Lower Upper

131 100

133 99.4 47.4 142.2

119 67.6 33.1 99.3





#67

Ethyl Benzene

Concen: 16.369 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 91 Resp: 208550

Ion Ratio Lower Upper

91 100

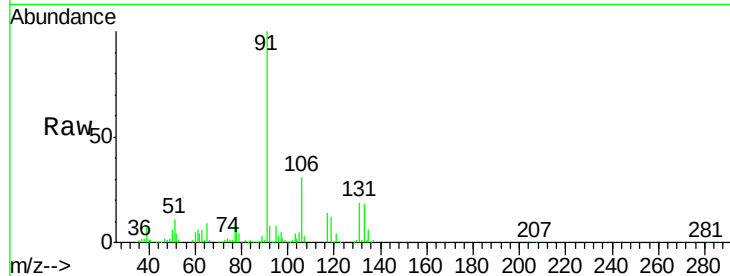
106 30.6 24.1 36.1

Manual Integrations

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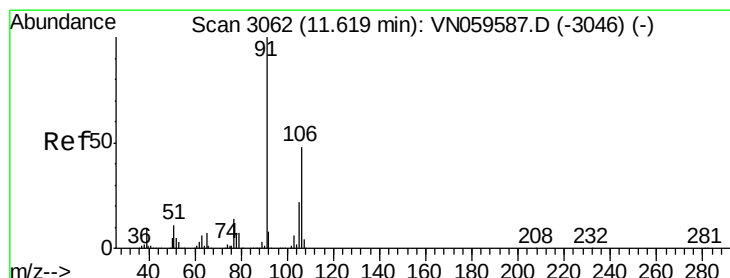
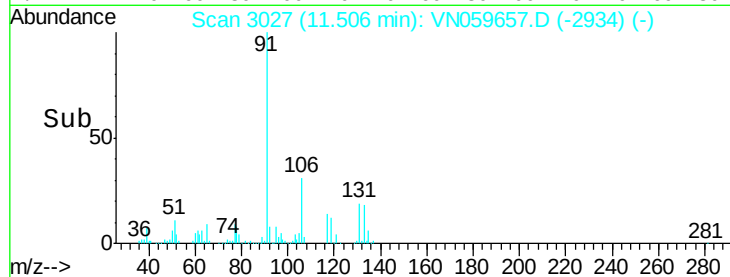
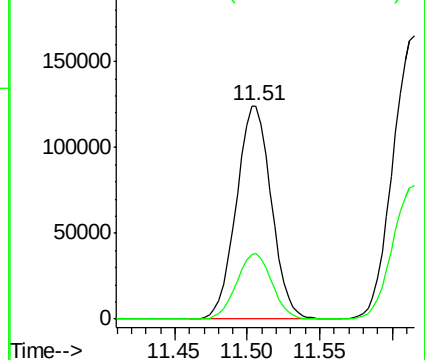
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 32.948 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059657.D

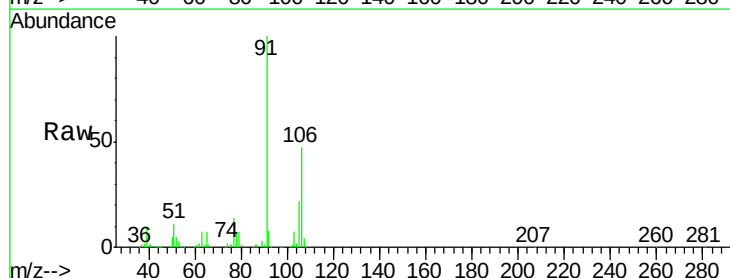
Acq: 18 Dec 2019 18:16

Tgt Ion: 106 Resp: 155008

Ion Ratio Lower Upper

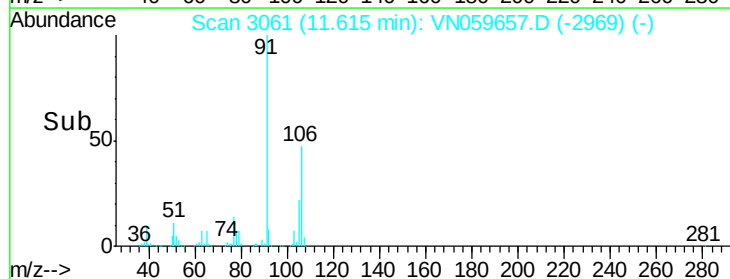
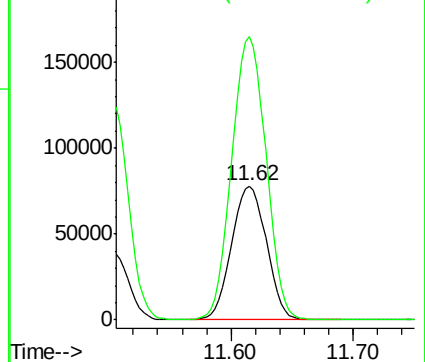
106 100

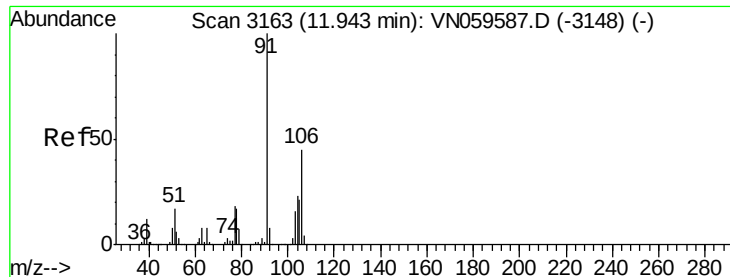
91 208.8 167.9 251.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





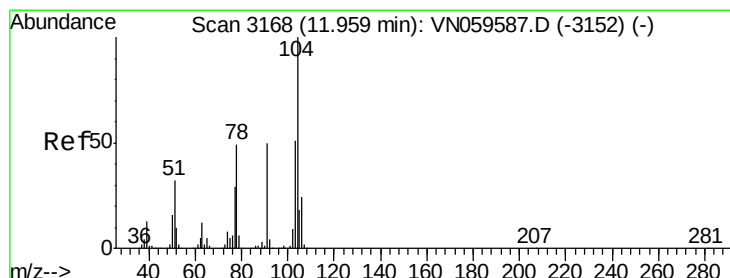
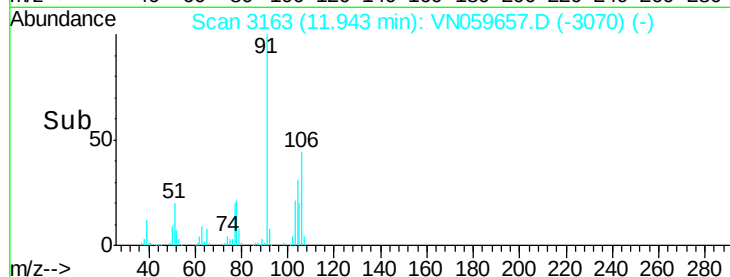
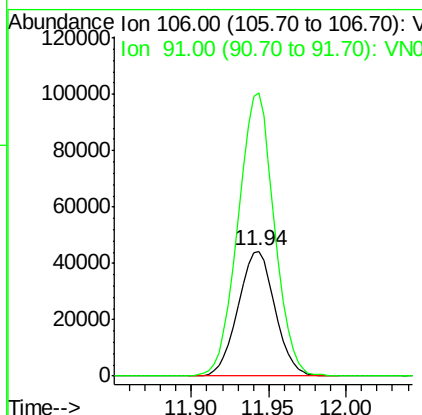
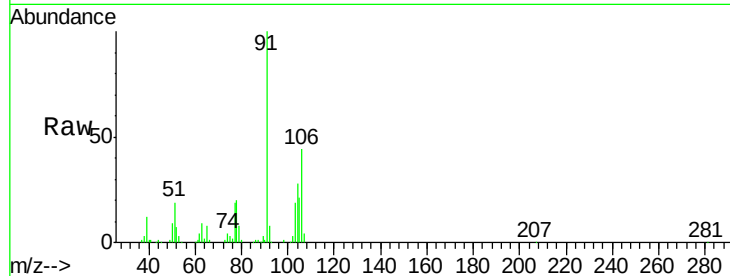
#69
o-Xylene
Concen: 16.473 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion:106 Resp: 73741
Ion Ratio Lower Upper
106 100
91 222.0 110.3 330.9

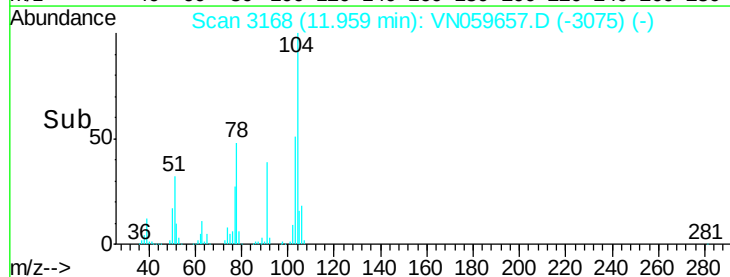
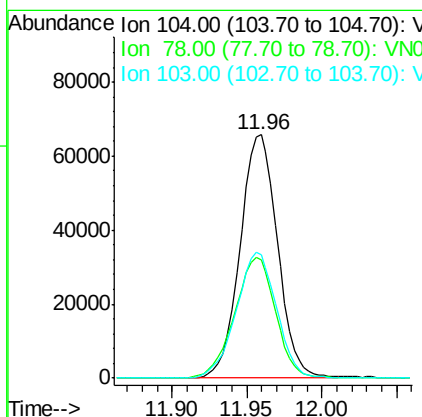
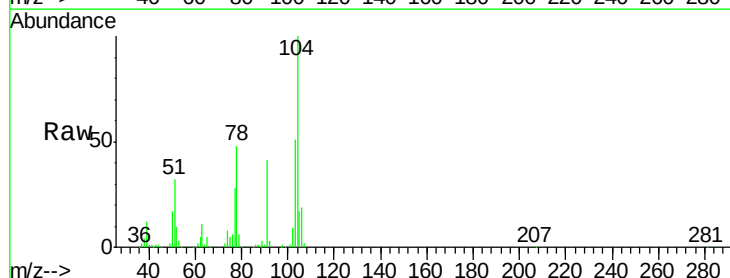
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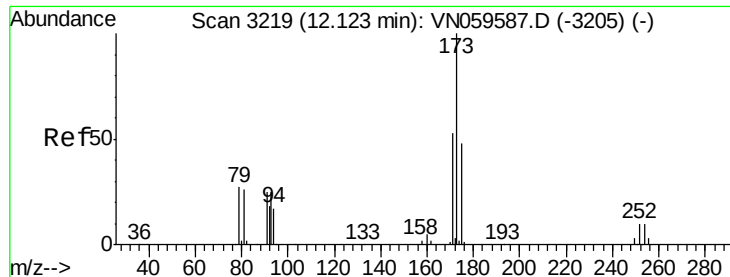
MMDadoda
12/19/2019 11:12:05 AM



#70
Styrene
Concen: 15.961 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion:104 Resp: 114796
Ion Ratio Lower Upper
104 100
78 54.4 42.4 63.6
103 55.7 43.9 65.9





#71

Bromoform

Concen: 16.429 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion:173 Resp: 33109

Ion Ratio Lower Upper

173 100

175 48.4 23.8 71.4

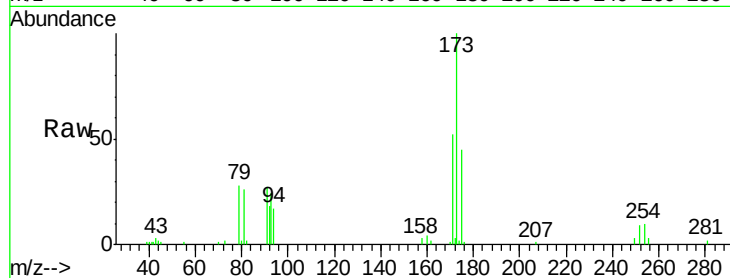
254 0.0 0.0 0.0

Manual Integrations

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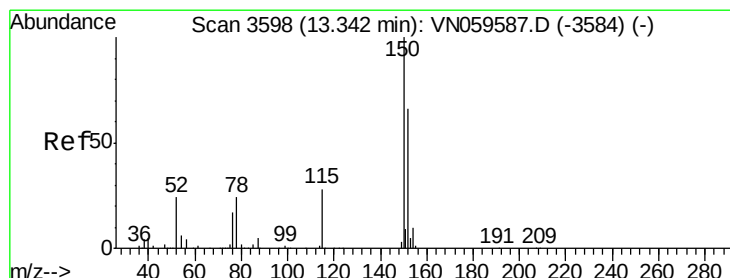
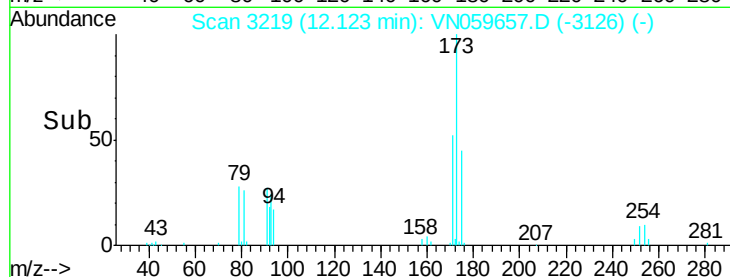
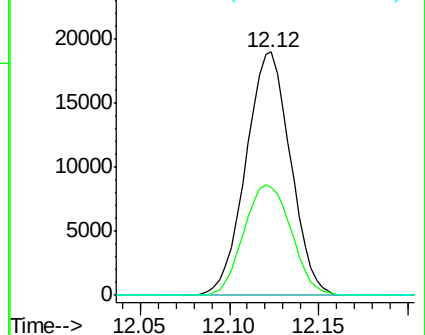
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Abundance Ion 172.70 (172.40 to 173.40): V

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: VN059657.D

Acq: 18 Dec 2019 18:16

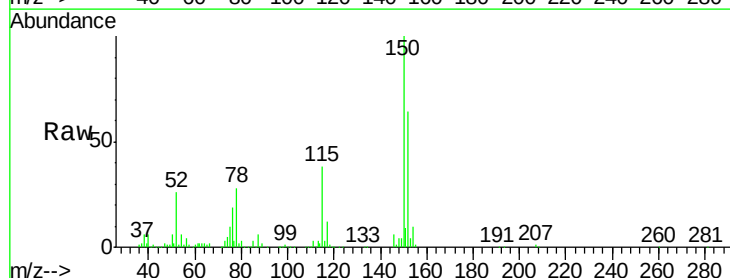
Tgt Ion:152 Resp: 149105

Ion Ratio Lower Upper

152 100

115 61.0 30.3 90.9

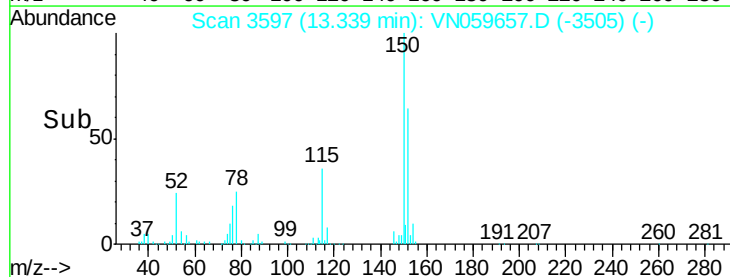
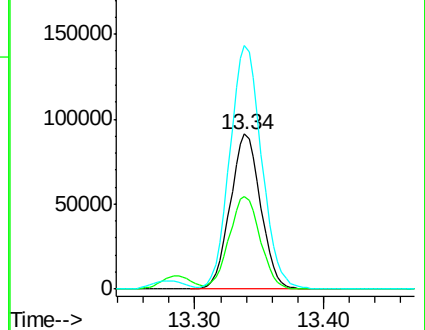
150 163.4 0.0 345.2

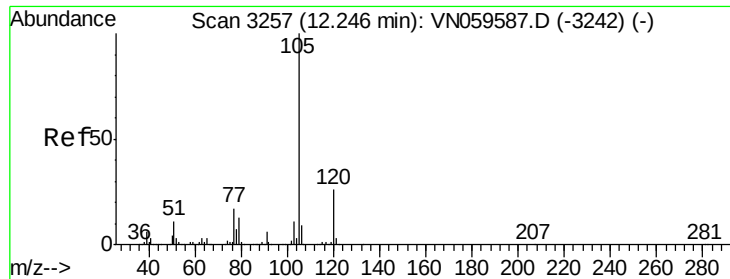


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 16.922 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion:105 Resp: 198069

Ion Ratio Lower Upper

105 100

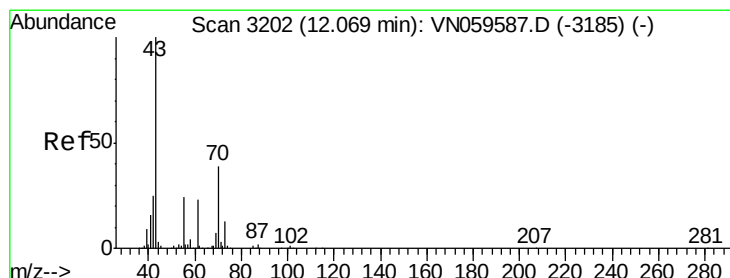
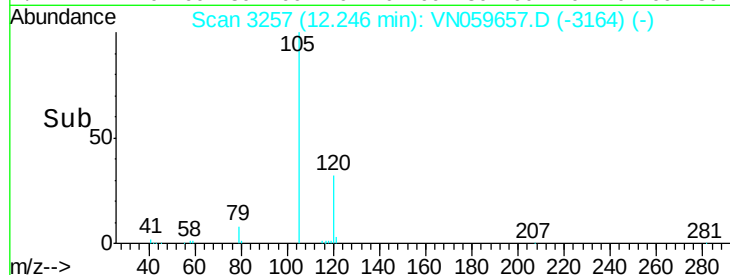
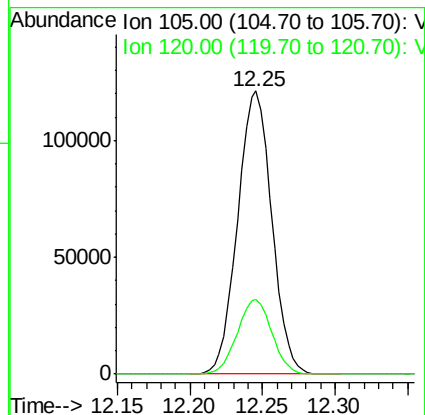
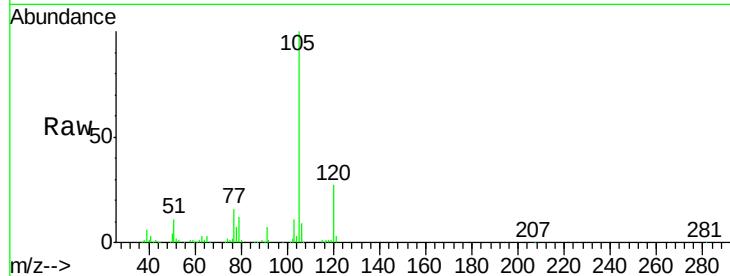
120 26.6 13.2 39.5

Manual Integrations

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12/19/2019 11:12:05 AM



#74

N-ethyl acetate

Concen: 16.242 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion: 43 Resp: 87202

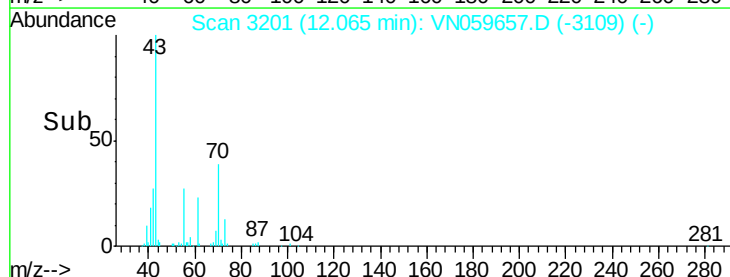
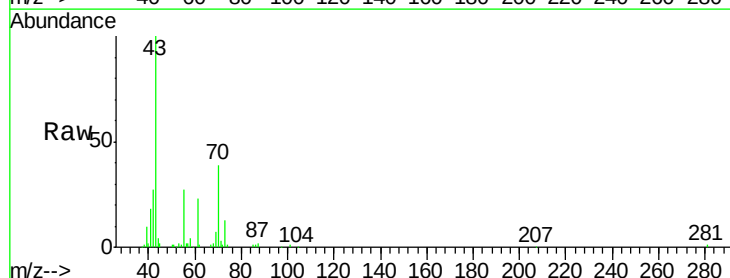
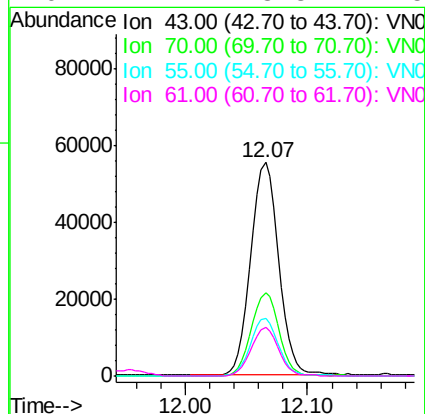
Ion Ratio Lower Upper

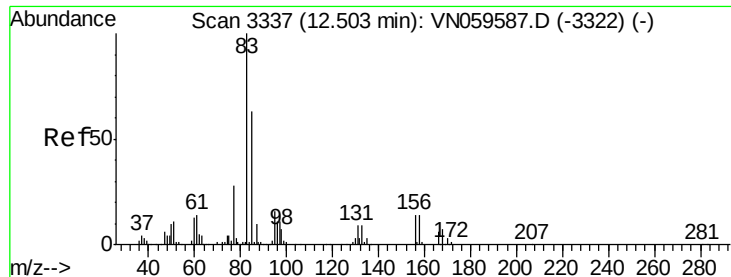
43 100

70 39.0 31.3 46.9

55 26.9 19.8 29.6

61 22.4 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 17.359 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

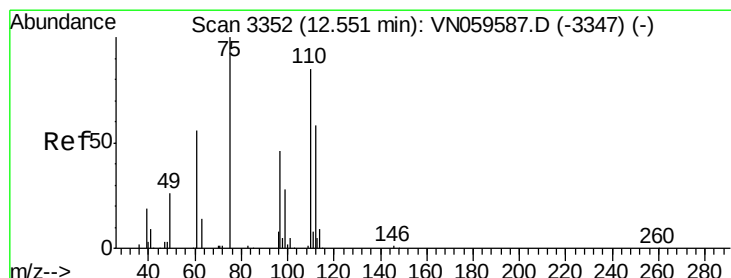
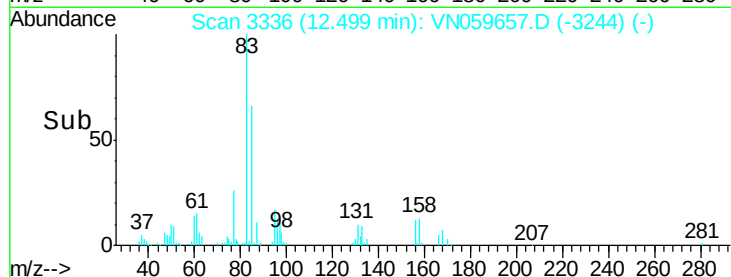
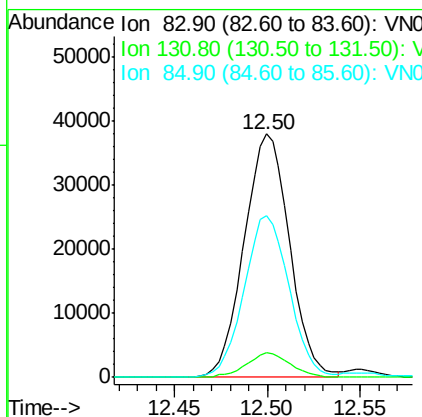
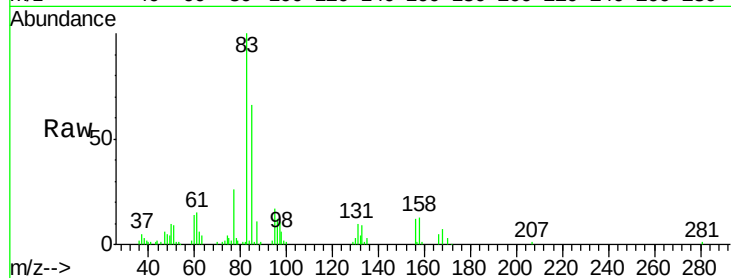
ClientSampleId :

VN1218WBSD02

Tot Ion:	83	Resp:	64453
Ion Ratio	Lower	Upper	
83	100		
131	9.7	5.0	14.9
85	65.8	31.9	95.5

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#76

1,2,3-Trichloropropane

Concen: 18.411 ug/l m

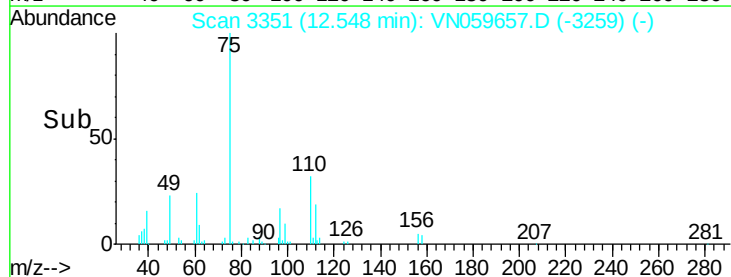
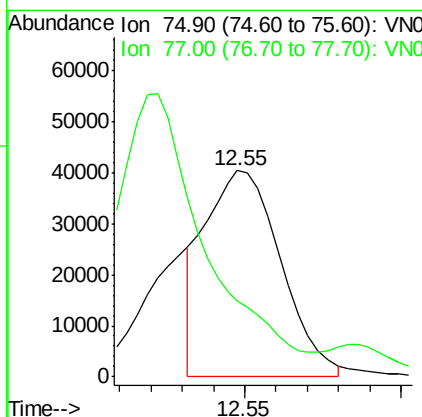
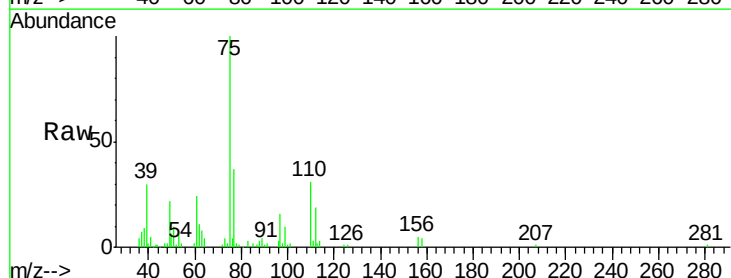
RT: 12.55 min Scan# 3351

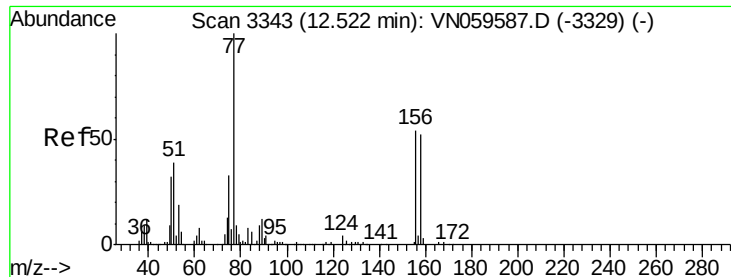
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	75	Resp:	67958
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 16.646 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

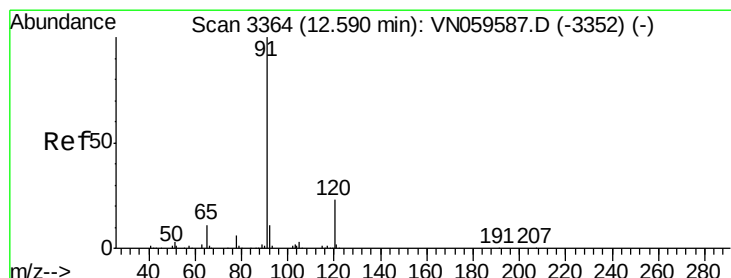
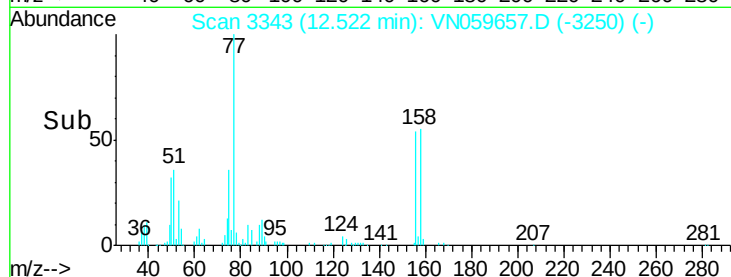
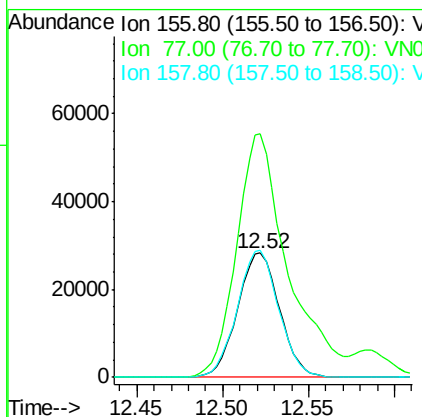
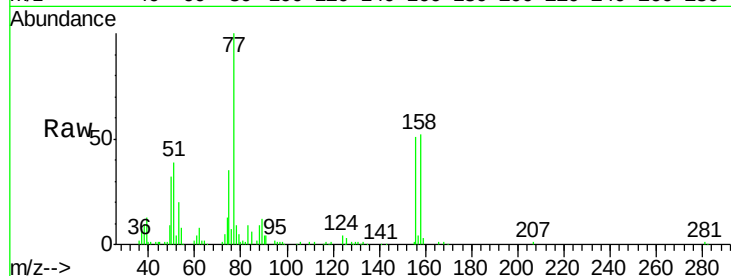
ClientSampleId :

VN1218WBSD02

Tot Ion:	156	Resp:	47916
Ion Ratio	Lower	Upper	
156	100		
77	237.6	115.8	347.4
158	100.8	49.2	147.6

Manual Integrations
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#78

n-propylbenzene

Concen: 16.805 ug/l

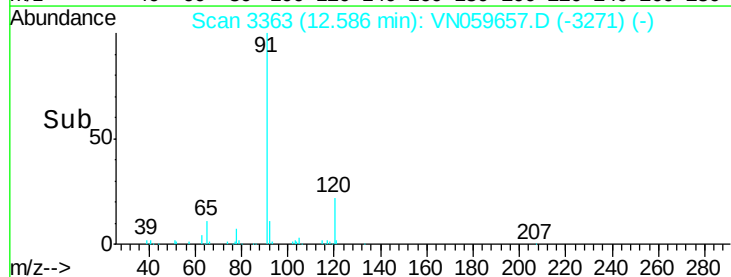
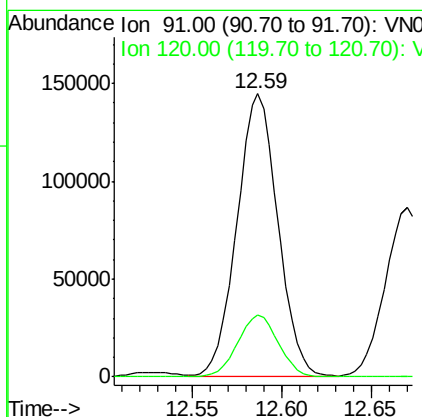
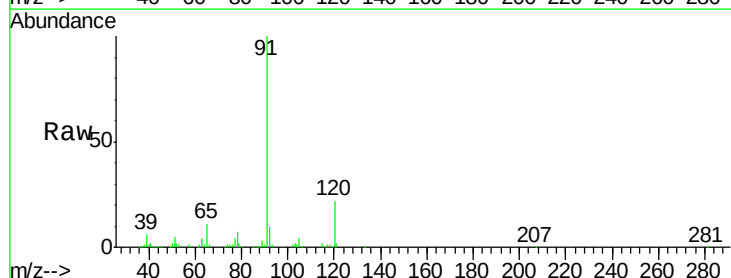
RT: 12.59 min Scan# 3363

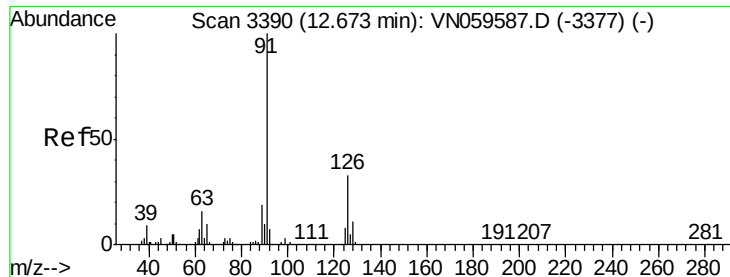
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	91	Resp:	232517
Ion Ratio	Lower	Upper	
91	100		
120	21.6	11.1	33.3





#79

2-Chlorotoluene

Concen: 16.929 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

ClientSampleId :

VN1218WBSD02

Tot Ion: 91 Resp: 141635

Ion Ratio Lower Upper

91 100

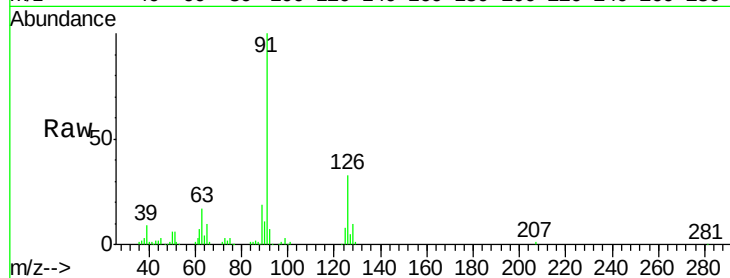
126 32.6 16.3 48.9

Manual Integrations

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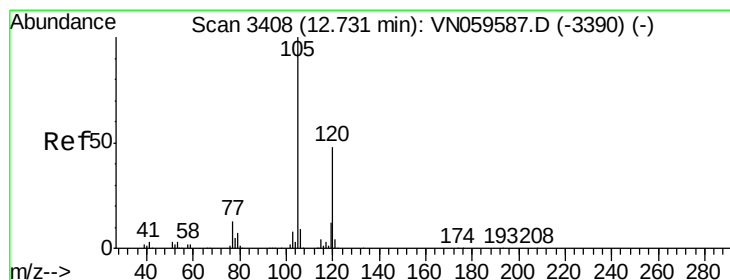
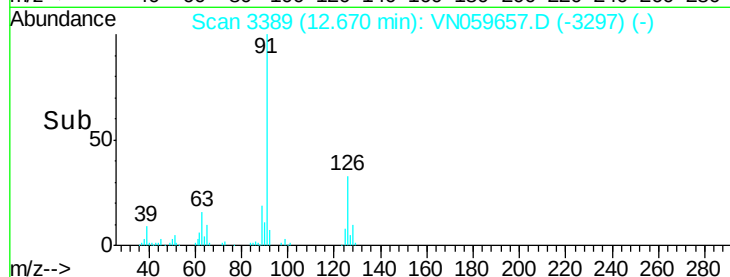
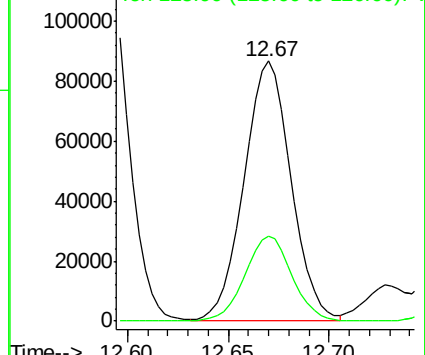
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN059587.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN059587.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 16.860 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN059657.D

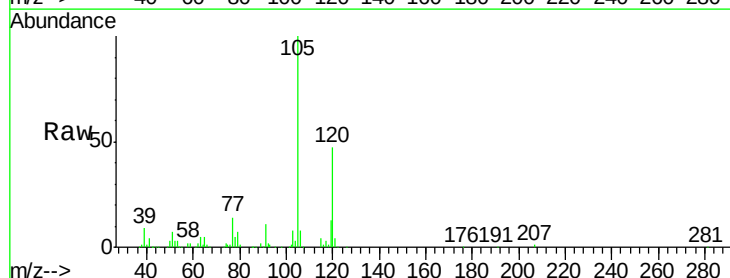
Acq: 18 Dec 2019 18:16

Tgt Ion: 105 Resp: 166997

Ion Ratio Lower Upper

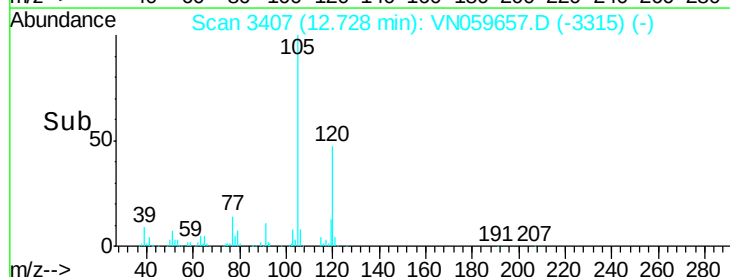
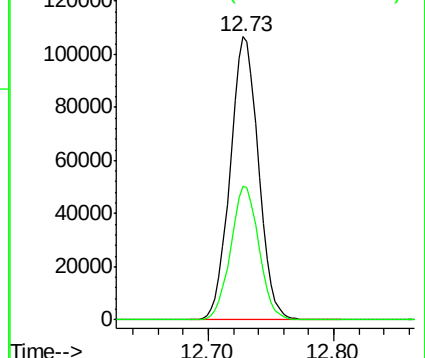
105 100

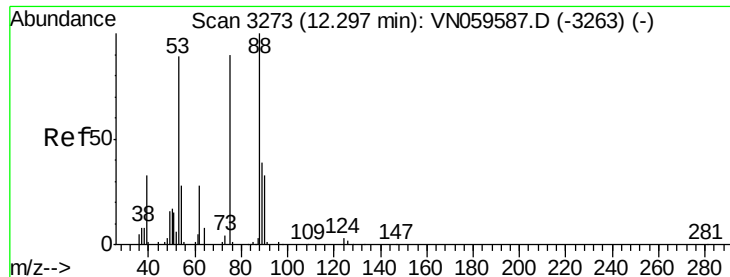
120 47.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059587.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059587.D (-3390) (-)





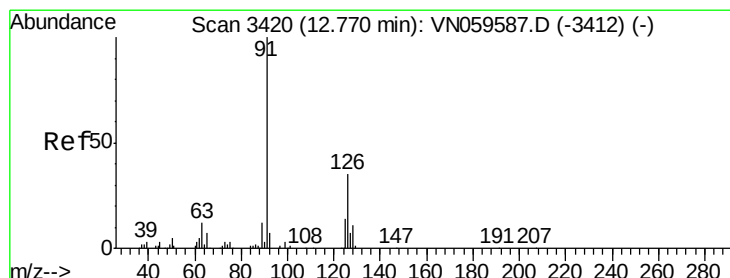
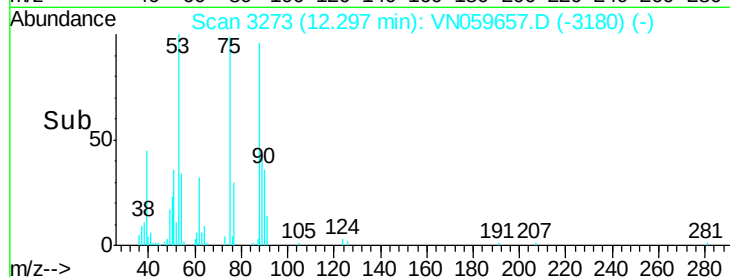
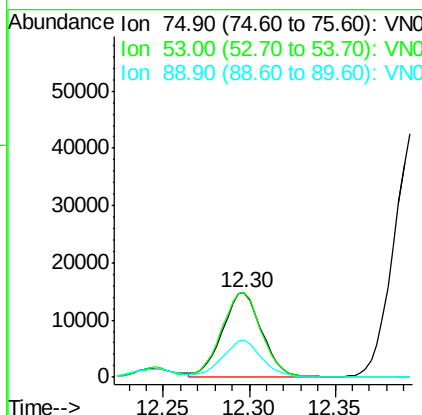
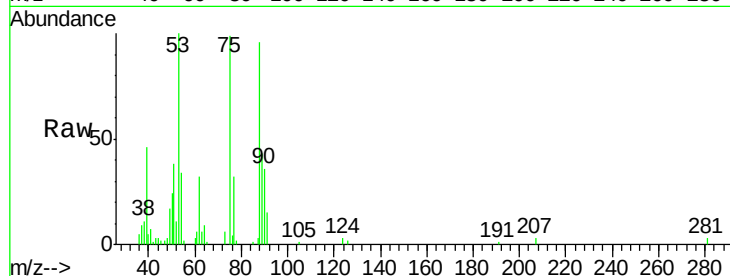
#81
trans-1,4-Dichloro-2-butene
Concen: 16.044 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.8	78.1	117.1
89	43.2	35.4	53.2

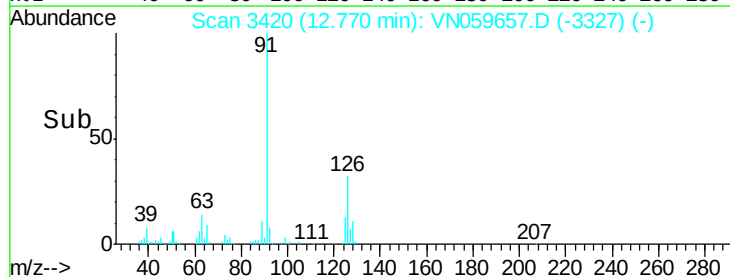
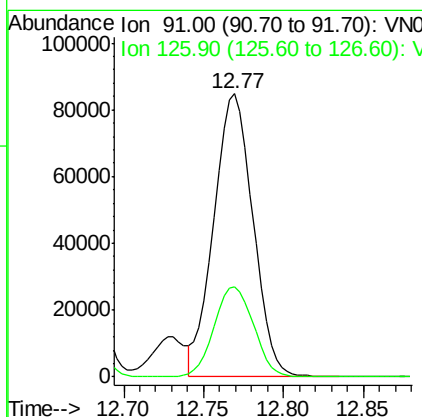
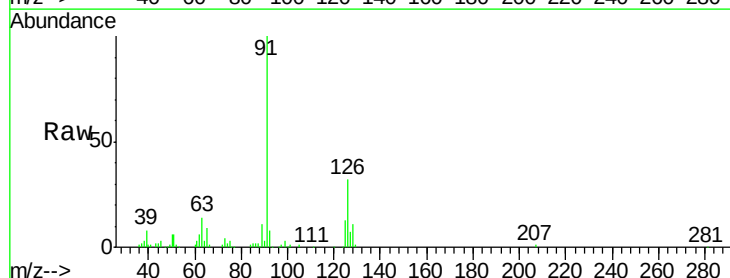
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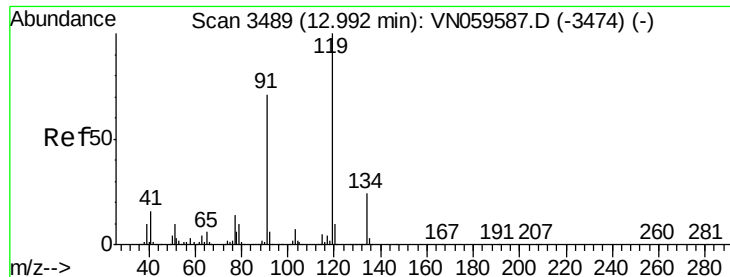
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#82
4-Chlorotoluene
Concen: 16.632 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.3	48.8





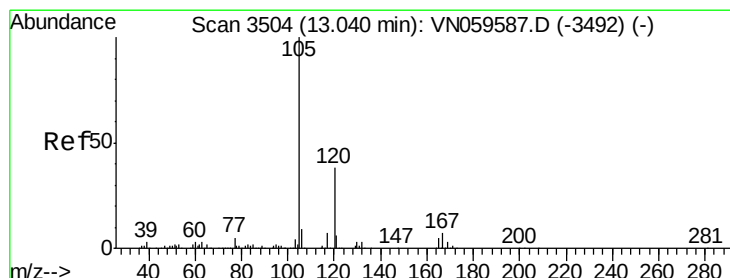
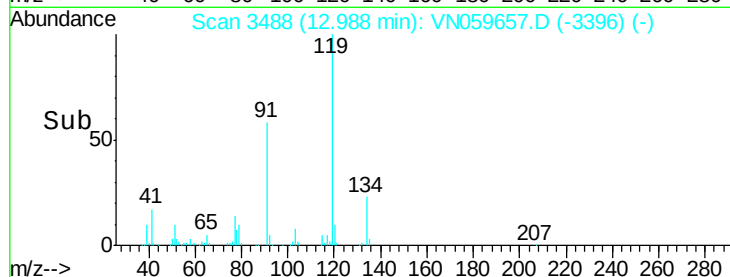
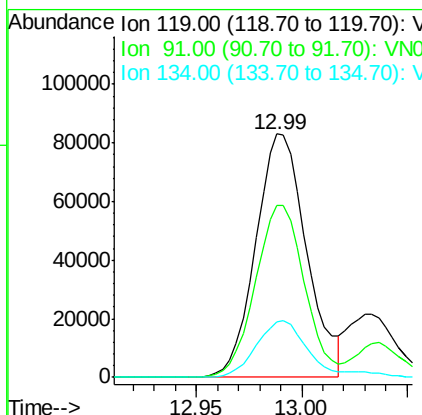
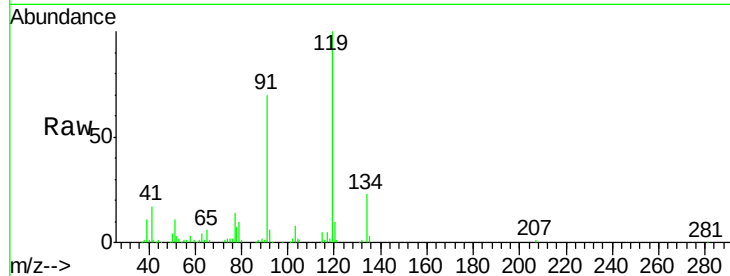
#83
 tert-Butylbenzene
 Concen: 16.595 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.2	34.8	104.4
134	24.5	12.3	36.9

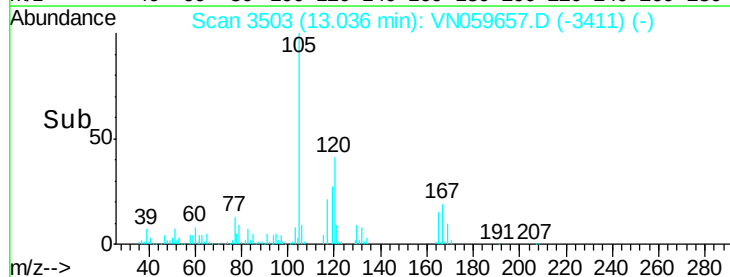
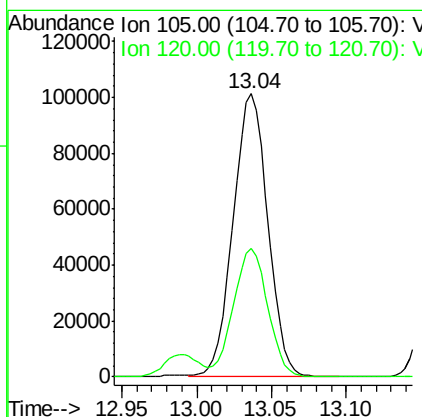
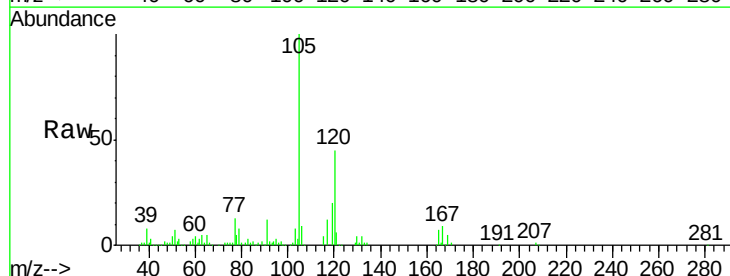
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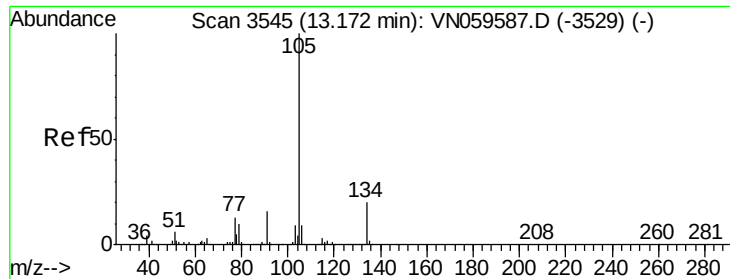
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#84
 1,2,4-Trimethylbenzene
 Concen: 16.566 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.3	66.9





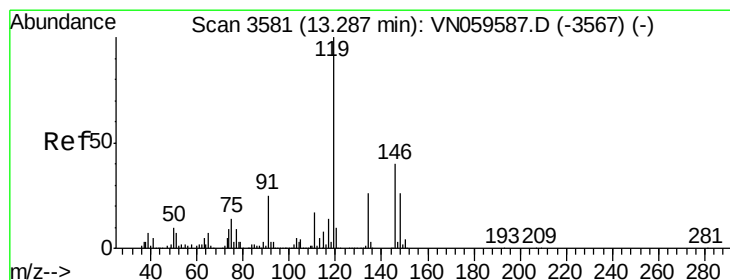
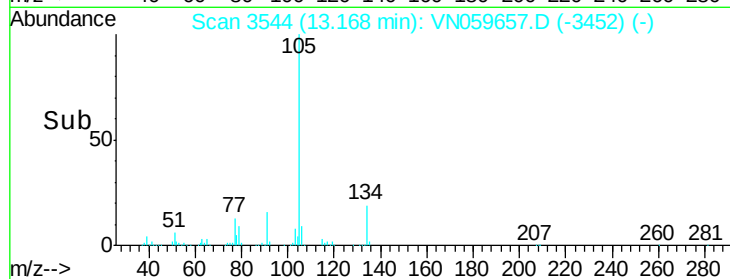
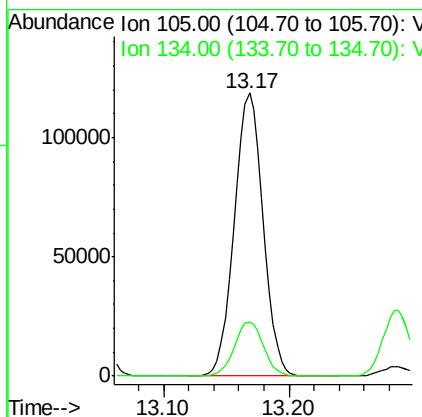
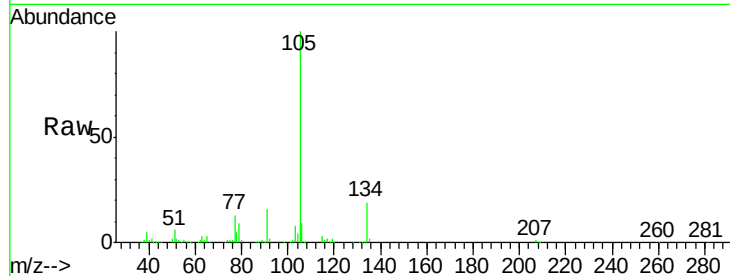
#85
 sec-Butylbenzene
 Concen: 16.950 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	189129		
134	19.2	9.8	29.5	

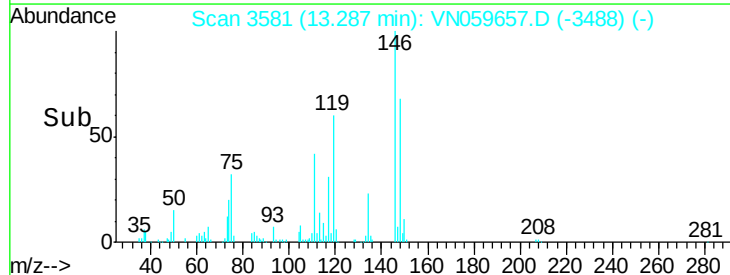
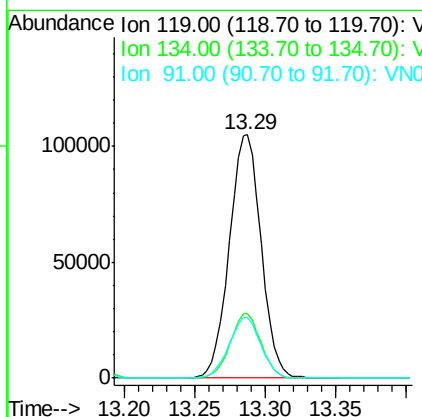
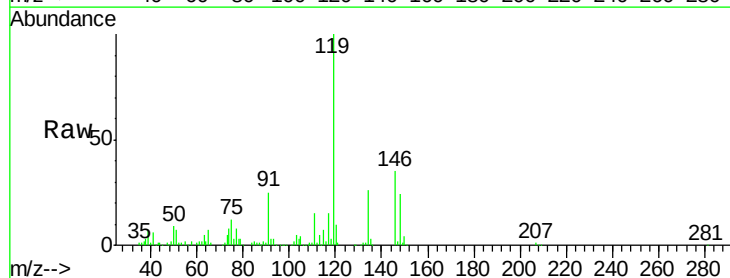
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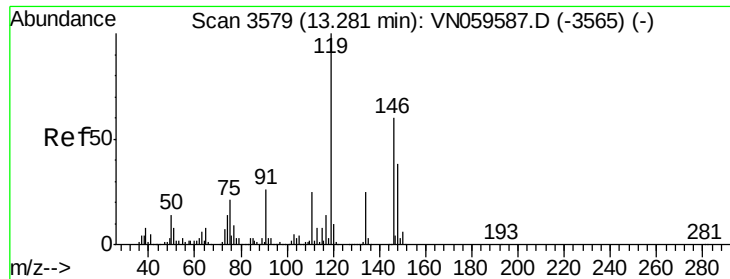
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#86
 p-Isopropyltoluene
 Concen: 16.382 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	165560		
134	25.6	12.9	38.7	
91	25.0	12.4	37.4	





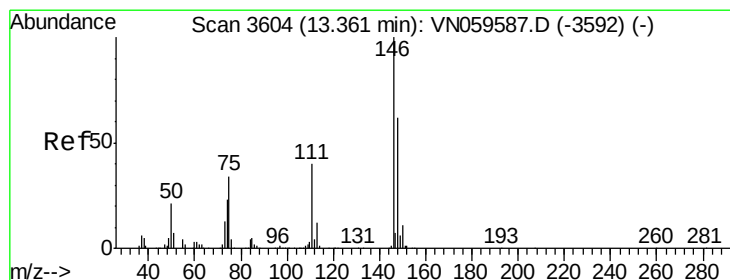
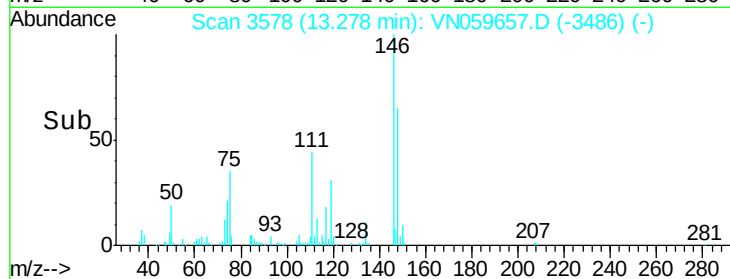
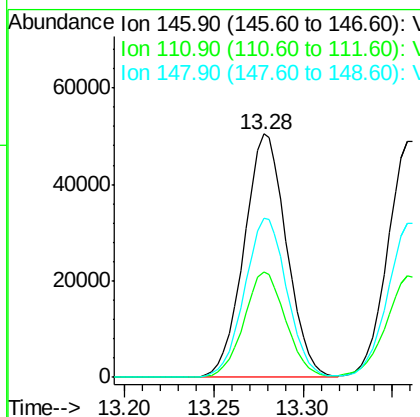
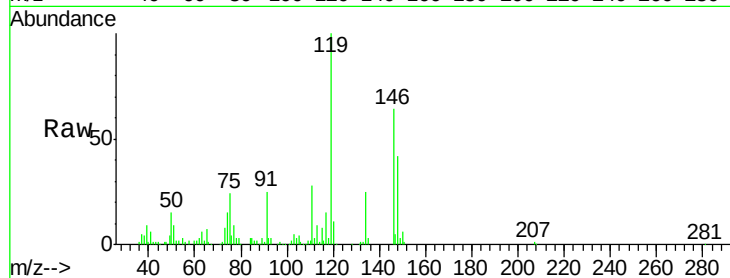
#87
 1,3-Dichlorobenzene
 Concen: 15.878 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.8	62.2
148	65.4	32.0	96.0

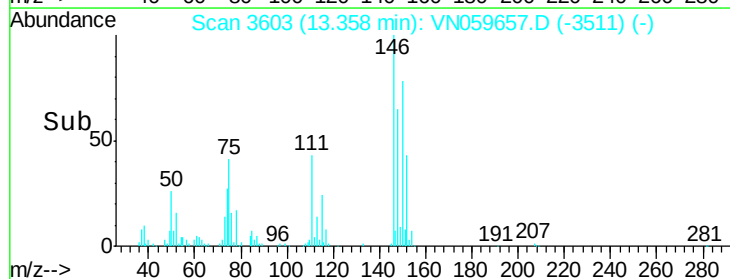
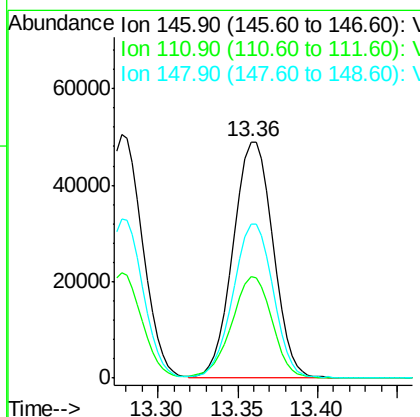
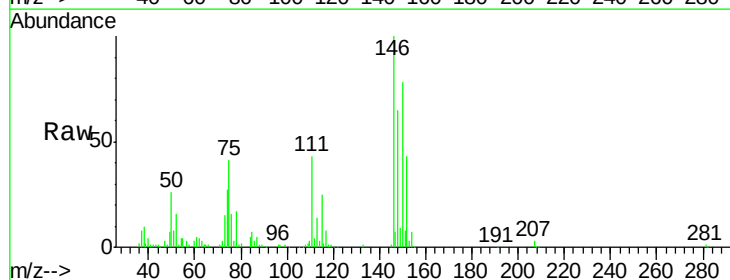
Manual Integrations
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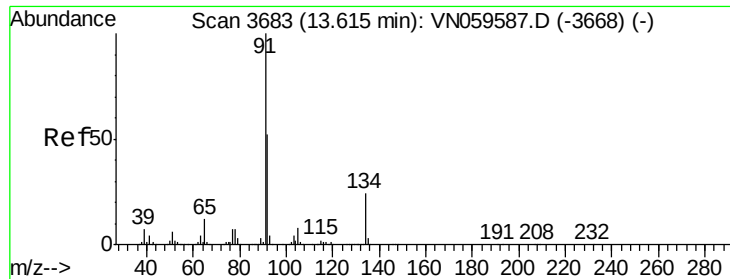
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#88
 1,4-Dichlorobenzene
 Concen: 15.694 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.8	62.2
148	65.5	31.8	95.4





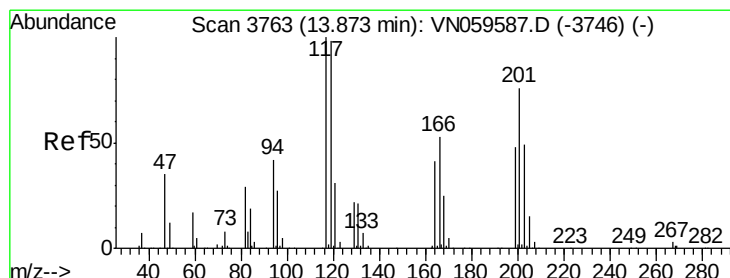
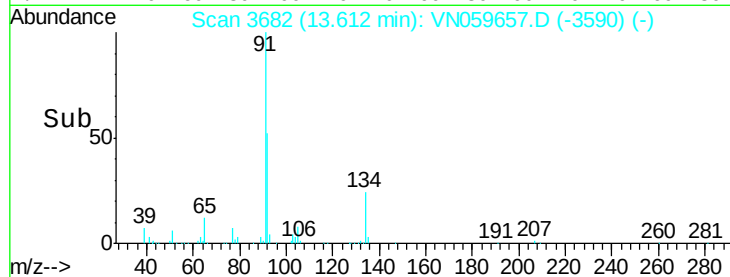
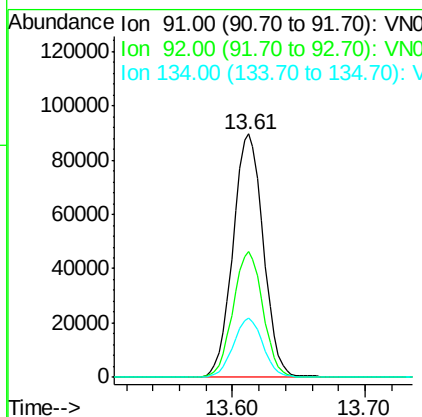
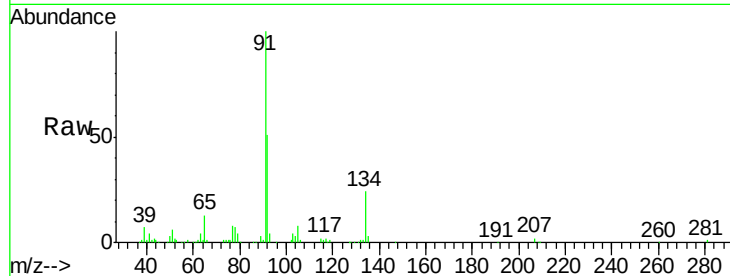
#89
n-Butylbenzene
Concen: 15.051 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.7	25.9	77.7
134	23.8	12.3	36.8

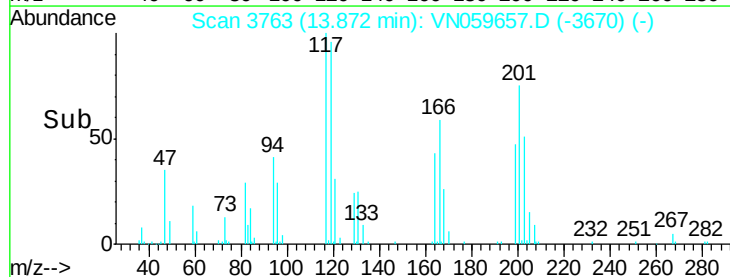
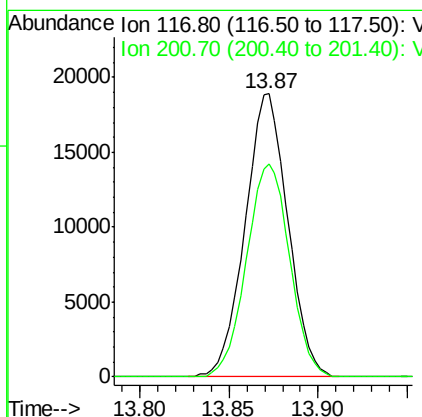
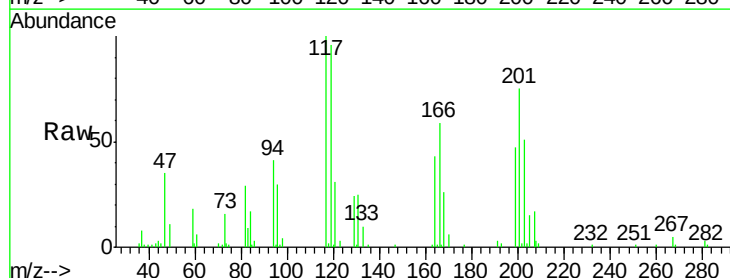
Manual Integrations
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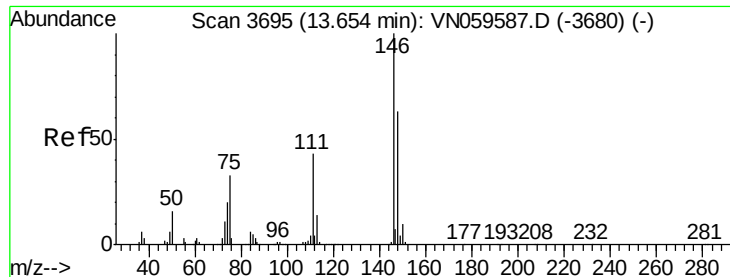
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#90
Hexachloroethane
Concen: 16.585 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.8	37.8	113.4





#91

1,2-Dichlorobenzene

Concen: 16.404 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Instrument :

MSVOA_N

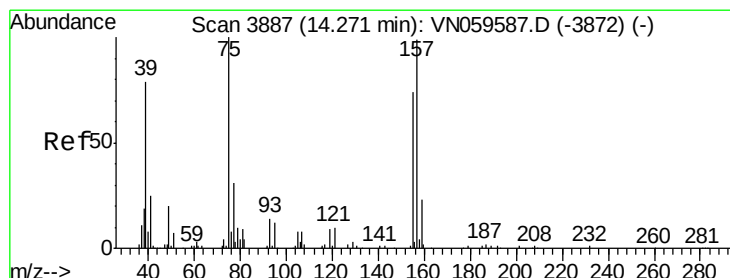
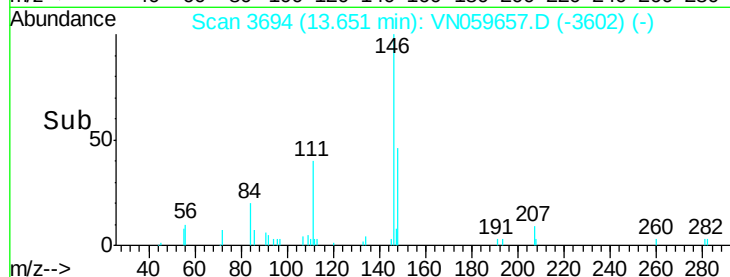
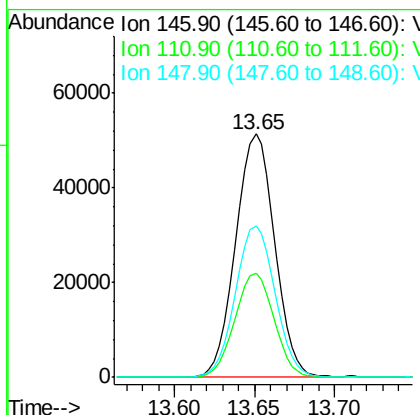
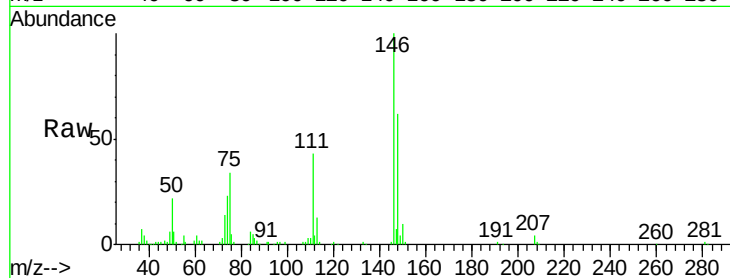
ClientSampleId :

VN1218WBSD02

Tot Ion:	146	Resp:	85632
Ion Ratio	Lower	Upper	
146	100		
111	42.9	21.6	64.8
148	63.3	31.6	95.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 16.214 ug/l

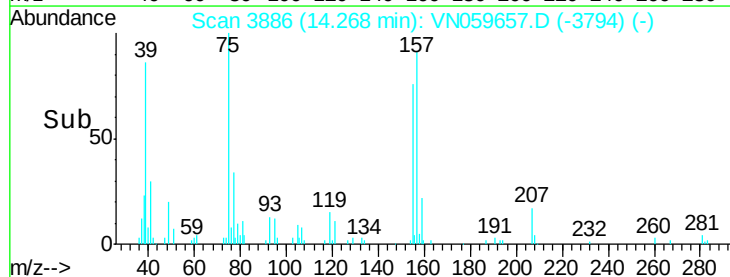
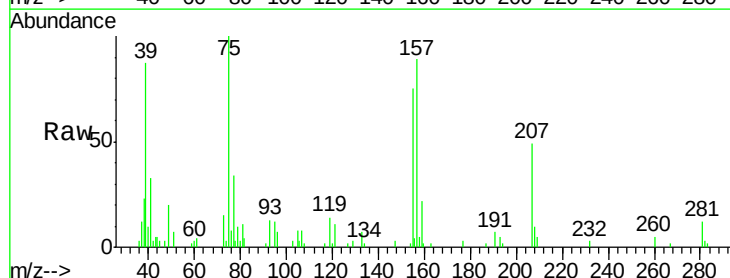
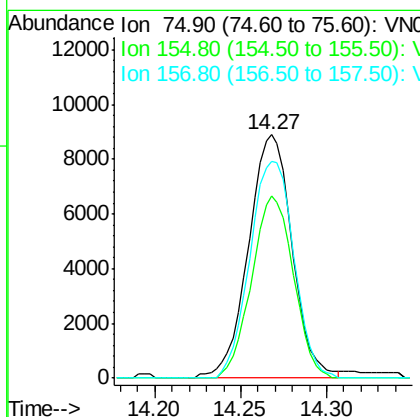
RT: 14.27 min Scan# 3886

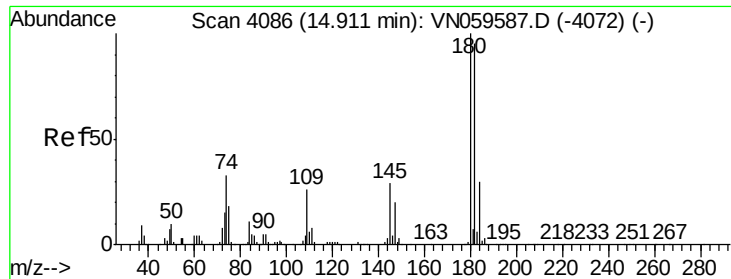
Delta R.T. -0.00 min

Lab File: VN059657.D

Acq: 18 Dec 2019 18:16

Tgt Ion:	75	Resp:	15675
Ion Ratio	Lower	Upper	
75	100		
155	71.4	37.0	110.9
157	89.7	48.4	145.2





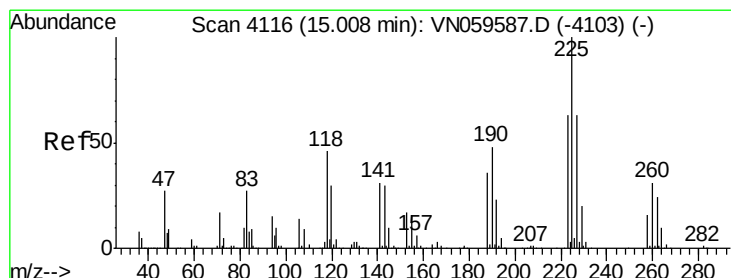
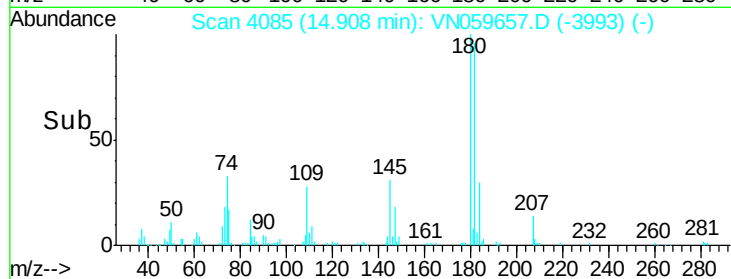
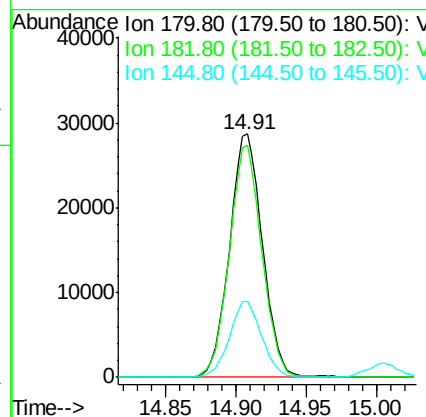
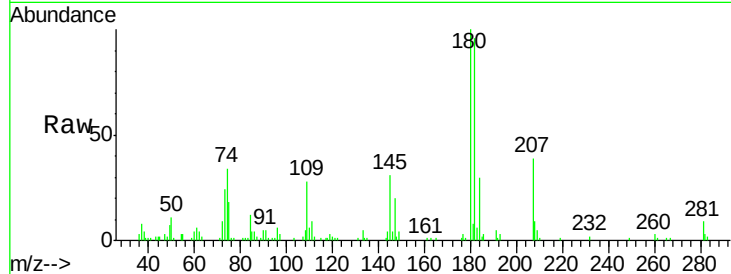
#93
 1,2,4-Trichlorobenzene
 Concen: 13.894 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1218WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	46832		
182	94.2	46.9	140.7	
145	30.3	15.0	45.1	

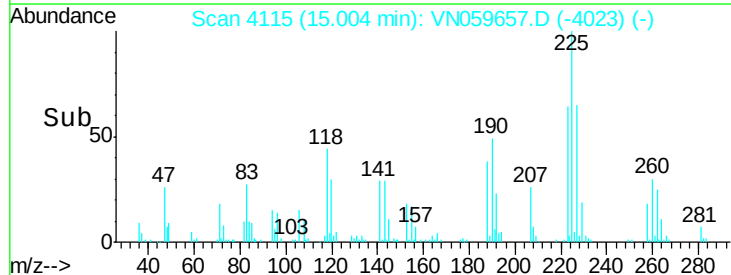
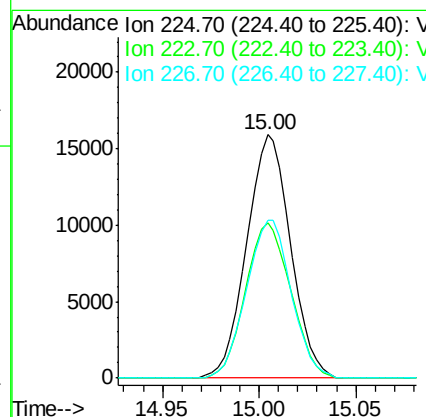
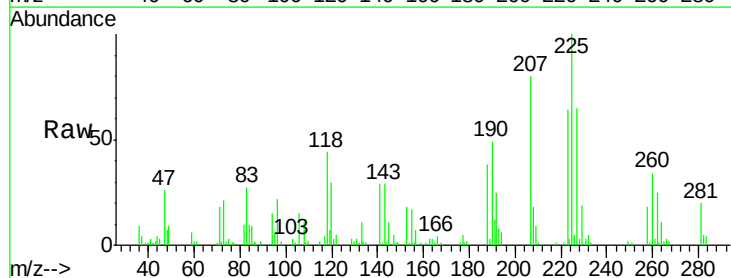
Manual Integrations
 APPROVED

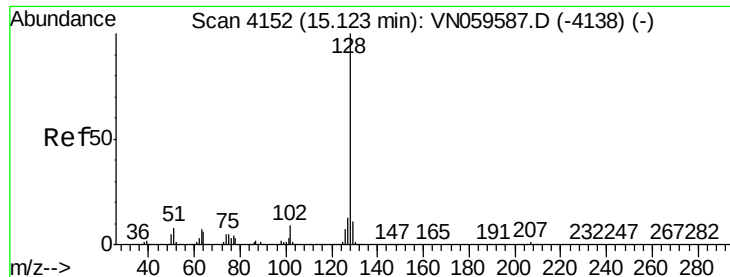
MMDadoda
 12/19/2019 11:12:05 AM



#94
 Hexachlorobutadiene
 Concen: 14.864 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN059657.D
 Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	25140		
223	65.7	31.8	95.3	
227	66.4	32.1	96.5	





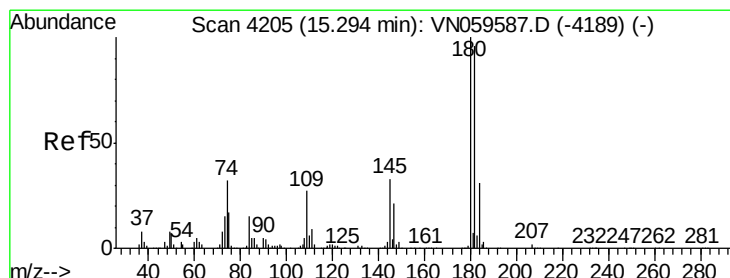
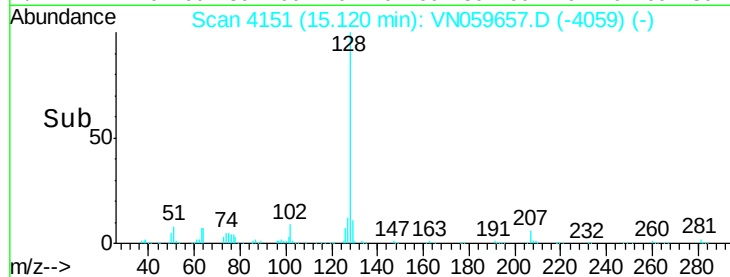
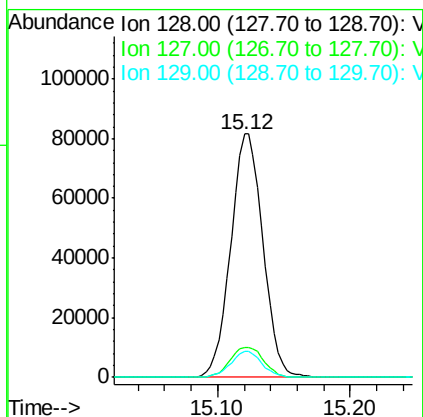
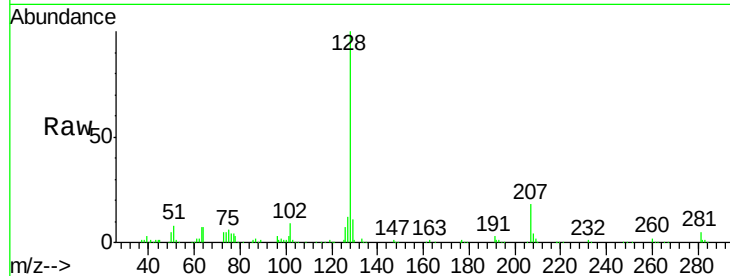
#95
Naphthalene
Concen: 13.651 ug/l
RT: 15.12 min Scan# 4151
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Instrument :
MSVOA_N
ClientSampleId :
VN1218WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.3	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
12/19/2019 11:12:05 AM



#96
1,2,3-Trichlorobenzene
Concen: 13.944 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. -0.00 min
Lab File: VN059657.D
Acq: 18 Dec 2019 18:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.4	142.3
145	32.4	16.3	48.9

