

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022120\
 Data File : VN060188.D
 Acq On : 21 Feb 2020 14:23
 Operator : JC/MD
 Sample : VN0221WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/24/2020 11:41:16 AM

Quant Time: Feb 21 23:07:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	186060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	294296	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	272402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	130209	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	115860	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
35) Dibromofluoromethane	7.56	113	90402	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
50) Toluene-d8	10.08	98	355214	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.39	95	126584	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	34770	18.696	ug/l	100
3) Chloromethane	2.04	50	40720	18.399	ug/l	96
4) Vinyl Chloride	2.17	62	47379	18.781	ug/l	98
5) Bromomethane	2.55	94	29779	19.251	ug/l	95
6) Chloroethane	2.69	64	24261	19.014	ug/l	98
7) Trichlorofluoromethane	3.00	101	61746	18.984	ug/l	98
8) Diethyl Ether	3.39	74	21644	19.991	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	34535	19.125	ug/l	97
10) Methyl Iodide	3.93	142	43892	19.675	ug/l	99
11) Tert butyl alcohol	4.73	59	34271	101.154	ug/l	100
12) 1,1-Dichloroethene	3.72	96	33616	19.110	ug/l	95
13) Acrolein	3.58	56	27386	81.777	ug/l	97
14) Allyl chloride	4.30	41	49124	18.973	ug/l	98
15) Acrylonitrile	4.94	53	87720	106.019	ug/l	99
16) Acetone	3.78	43	84721	85.788	ug/l	99
17) Carbon Disulfide	4.03	76	93782	17.687	ug/l	100
18) Methyl Acetate	4.29	43	39792	21.450	ug/l	99
19) Methyl tert-butyl Ether	5.00	73	115551	19.533	ug/l	98
20) Methylene Chloride	4.52	84	38292	19.435	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	36092	18.822	ug/l	100
22) Diisopropyl ether	5.91	45	113286	19.964	ug/l	98
23) Vinyl Acetate	5.86	43	472914	99.244	ug/l	99
24) 1,1-Dichloroethane	5.82	63	67366	19.597	ug/l	99
25) 2-Butanone	6.80	43	118827	95.672	ug/l	98
26) 2,2-Dichloropropane	6.80	77	62945	19.279	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	42666	19.012	ug/l	100
28) Bromochloromethane	7.17	49	25083	18.561	ug/l	99
29) Tetrahydrofuran	7.18	42	78176	102.598	ug/l	98
30) Chloroform	7.35	83	69883	19.407	ug/l	99
31) Cyclohexane	7.63	56	61204	19.114	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	62791	19.082	ug/l	99
36) 1,1-Dichloropropene	7.77	75	51936	19.053	ug/l	99
37) Ethyl Acetate	6.90	43	50042	20.313	ug/l	99
38) Carbon Tetrachloride	7.75	117	55072	18.603	ug/l	99

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Quant Time: Feb 21 23:07:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	61999	18.323	ug/l	99
40) Benzene	8.02	78	152355	18.842	ug/l	100
41) Methacrylonitrile	7.15	41	19578m	18.950	ug/l	
42) 1,2-Dichloroethane	8.10	62	55901	19.725	ug/l	98
43) Isopropyl Acetate	8.14	43	83676	19.869	ug/l	98
44) Trichloroethene	8.82	130	41803	18.671	ug/l	97
45) 1,2-Dichloropropane	9.10	63	40077	20.020	ug/l	93
46) Dibromomethane	9.19	93	27097	19.154	ug/l	98
47) Bromodichloromethane	9.38	83	55264	19.215	ug/l	99
48) Methyl methacrylate	9.18	41	35705	18.897	ug/l	99
49) 1,4-Dioxane	9.18	88	12940	400.827	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	246412	101.089	ug/l	99
52) Toluene	10.14	92	97027	18.712	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	62531	19.261	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	64378	18.832	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	39222	19.389	ug/l	99
56) Ethyl methacrylate	10.42	69	54571	19.070	ug/l	97
57) 1,3-Dichloropropane	10.70	76	64107	19.205	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.68	63	128877	96.670	ug/l	99
59) 2-Hexanone	10.74	43	180695	95.964	ug/l	99
60) Dibromochloromethane	10.89	129	43314	18.659	ug/l	98
61) 1,2-Dibromoethane	10.99	107	40893	19.284	ug/l	99
64) Tetrachloroethene	10.62	164	39788	19.214	ug/l	99
65) Chlorobenzene	11.42	112	105439	18.999	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	40285	19.188	ug/l	99
67) Ethyl Benzene	11.50	91	189914	18.973	ug/l	100
68) m/p-Xylenes	11.61	106	141222	37.592	ug/l	100
69) o-Xylene	11.94	106	68707	18.995	ug/l	100
70) Styrene	11.96	104	106767	18.304	ug/l	99
71) Bromoform	12.12	173	31890	18.885	ug/l #	97
73) Isopropylbenzene	12.24	105	185612	19.089	ug/l	99
74) N-amyl acetate	12.06	43	68690	19.591	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	55919	19.980	ug/l	100
76) 1,2,3-Trichloropropane	12.54	75	52594m	21.112	ug/l	
77) Bromobenzene	12.52	156	46577	19.302	ug/l	98
78) n-propylbenzene	12.58	91	207490	18.730	ug/l	100
79) 2-Chlorotoluene	12.67	91	122661	18.838	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	153699	19.012	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.29	75	19577	19.242	ug/l	98
82) 4-Chlorotoluene	12.77	91	125885	18.844	ug/l	100
83) tert-Butylbenzene	12.99	119	135685	18.972	ug/l	99
84) 1,2,4-Trimethylbenzene	13.03	105	153803	19.273	ug/l	99
85) sec-Butylbenzene	13.17	105	177193	18.708	ug/l	100
86) p-Isopropyltoluene	13.28	119	160565	18.711	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	80607	18.872	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	79078	18.517	ug/l	98
89) n-Butylbenzene	13.61	91	137940	18.275	ug/l	99
90) Hexachloroethane	13.87	117	29182	18.203	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	79324	18.976	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	11767	19.300	ug/l	92

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
VN0221WBSD01

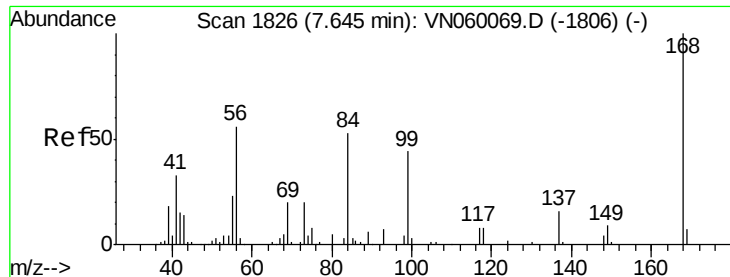
Manual Integrations
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Quant Time: Feb 21 23:07:58 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	44492	18.115	ug/l	100
94) Hexachlorobutadiene	15.00	225	25359	17.636	ug/l	96
95) Naphthalene	15.13	128	119375	17.993	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	44883	18.350	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion:168 Resp: 186060

Ion Ratio Lower Upper

168 100

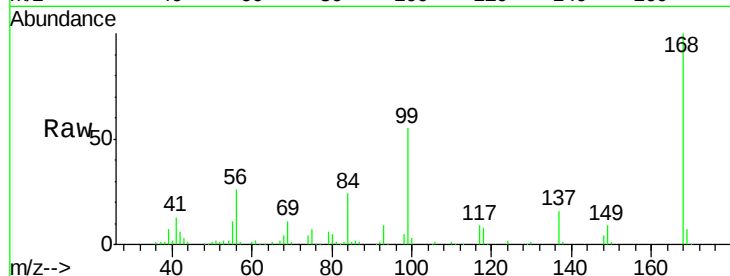
99 54.7 42.7 64.1

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

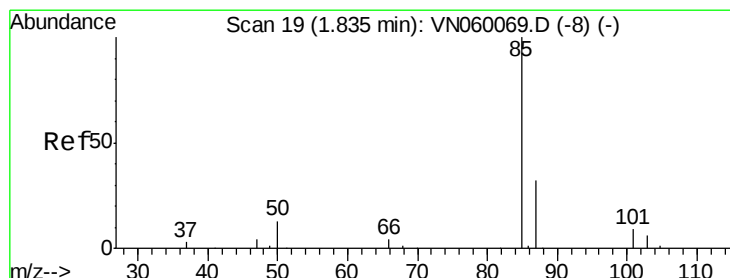
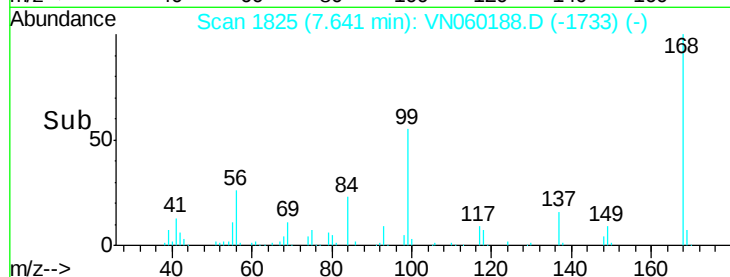
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.696 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN060188.D

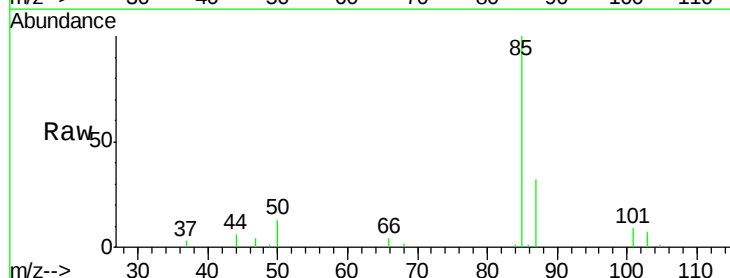
Acq: 21 Feb 2020 14:23

Tgt Ion: 85 Resp: 34770

Ion Ratio Lower Upper

85 100

87 32.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

30000

25000

20000

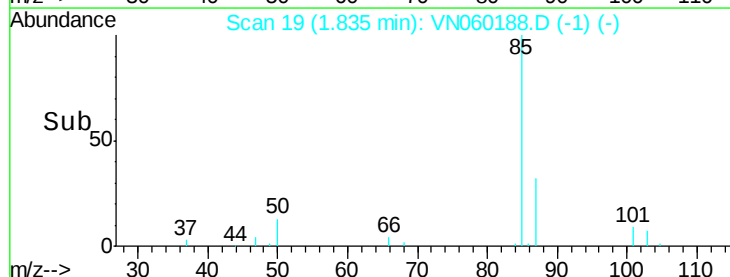
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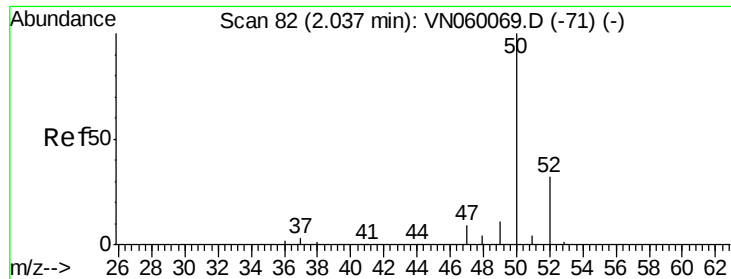
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5000

0

Time-->





#3

Chloromethane

Concen: 18.399 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampled :

VN0221WBSD01

Tot Ion: 50 Resp: 40720

Ion Ratio Lower Upper

50 100

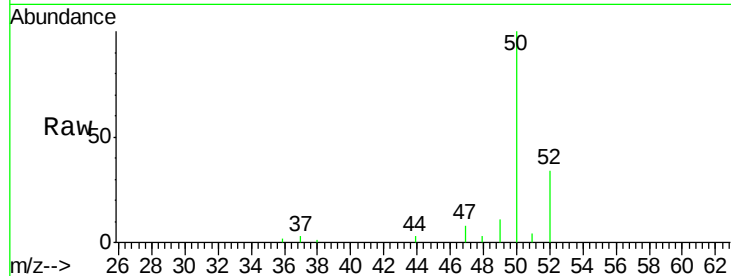
52 34.0 25.6 38.4

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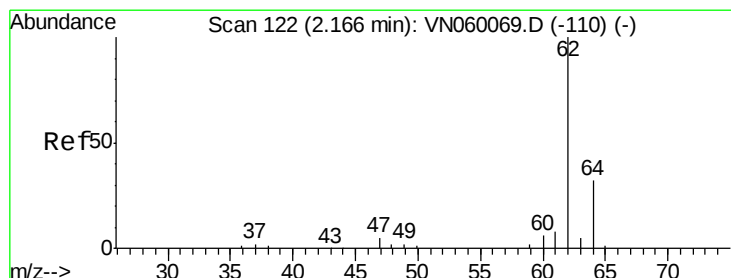
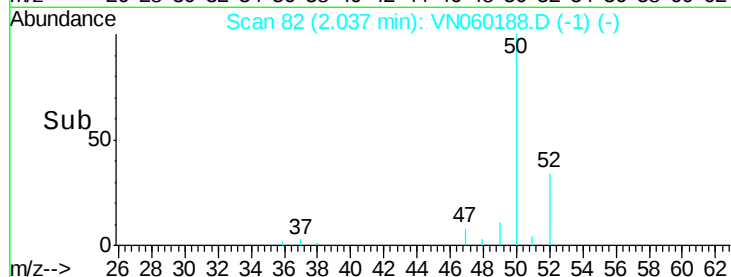
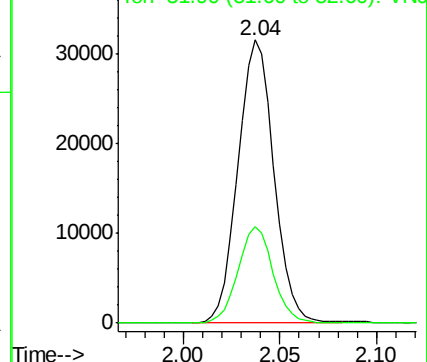
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 18.781 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN060188.D

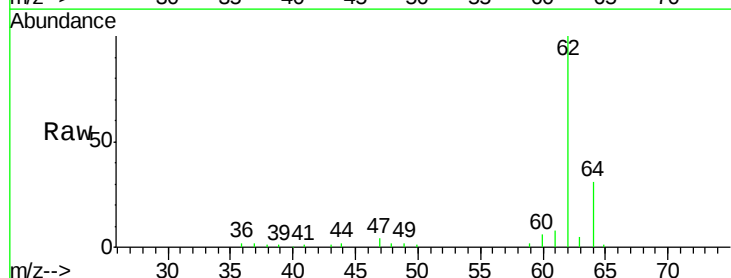
Acq: 21 Feb 2020 14:23

Tgt Ion: 62 Resp: 47379

Ion Ratio Lower Upper

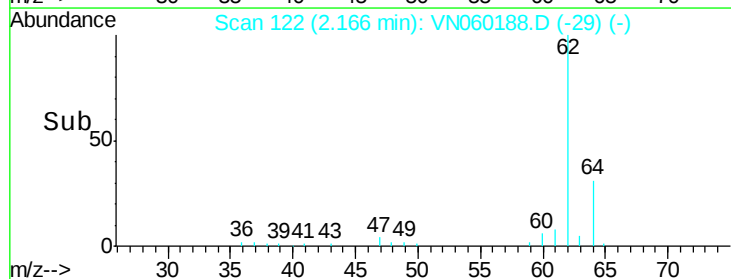
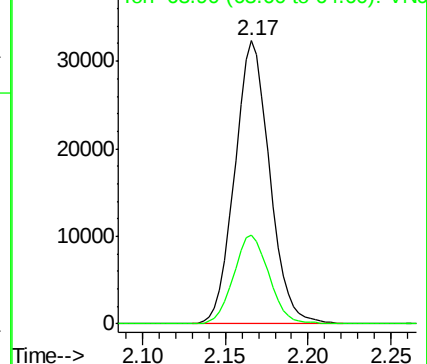
62 100

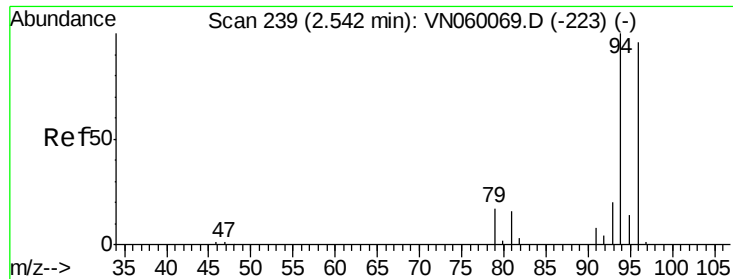
64 31.5 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





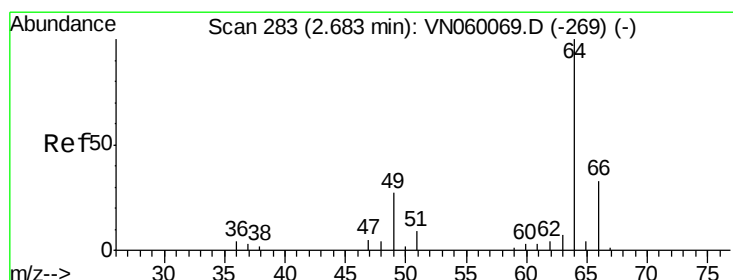
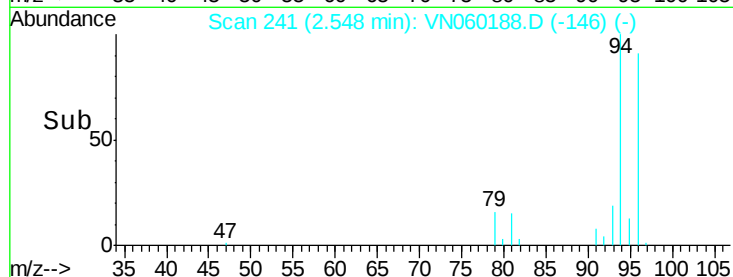
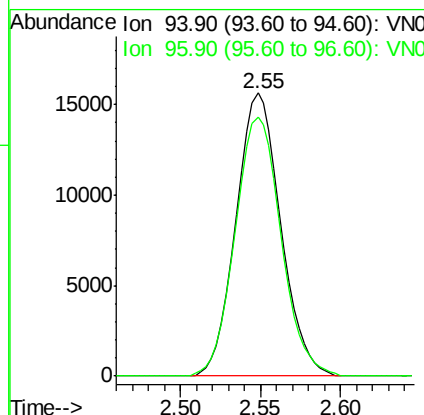
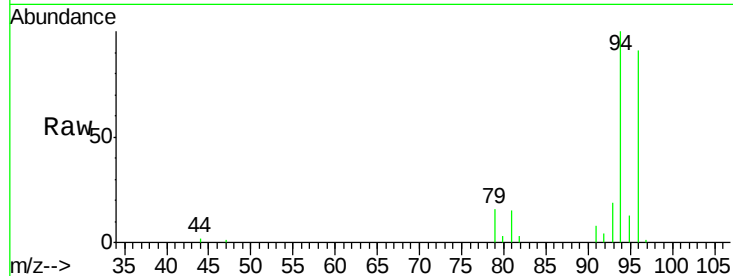
#5
Bromomethane
Concen: 19.251 ug/l
RT: 2.55 min Scan# 241
Delta R.T. 0.01 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

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Tot Ion: 94 Resp: 29779
Ion Ratio Lower Upper
94 100
96 91.4 76.7 115.1

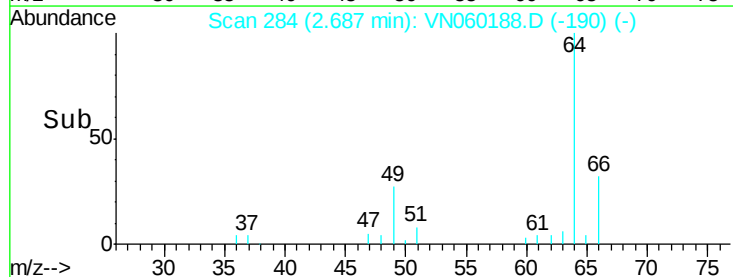
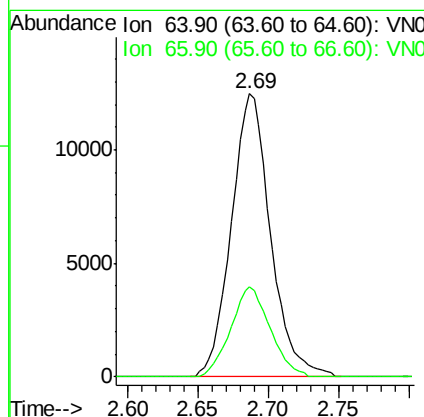
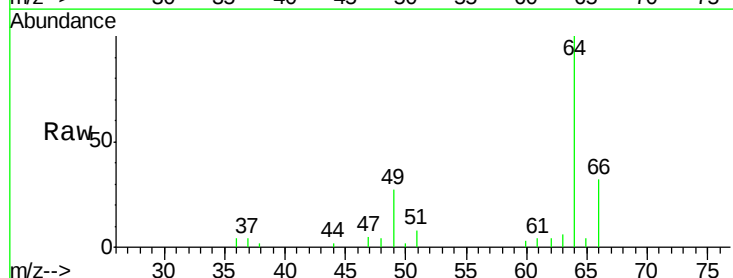
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#6
Chloroethane
Concen: 19.014 ug/l
RT: 2.69 min Scan# 284
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion: 64 Resp: 24261
Ion Ratio Lower Upper
64 100
66 32.0 26.6 40.0





#7

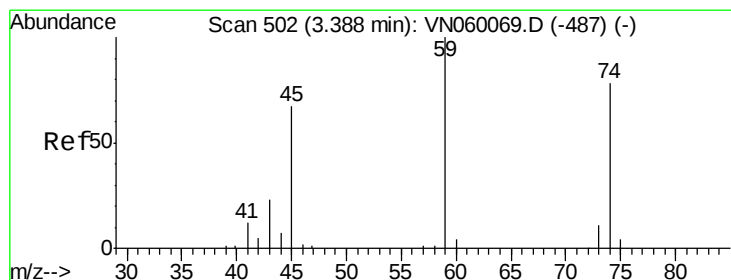
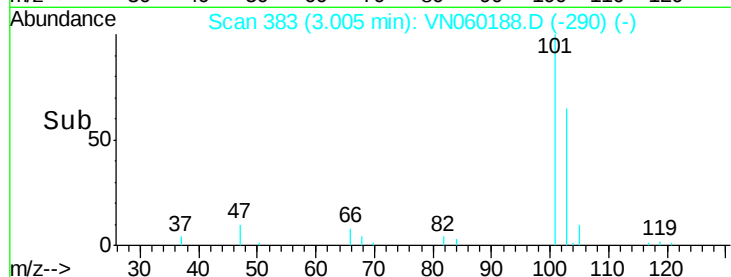
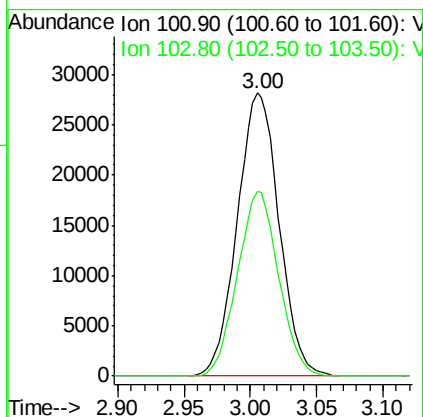
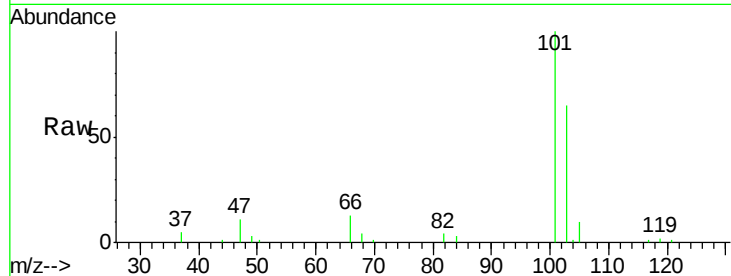
Trichlorofluoromethane
 Concen: 18.984 ug/l
 RT: 3.00 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Tot Ion:101 Resp: 61746
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.0 76.6

Manual Integrations
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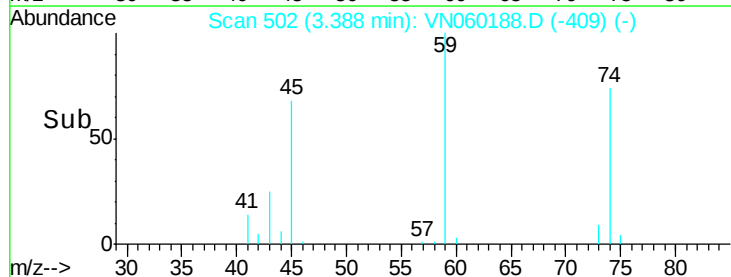
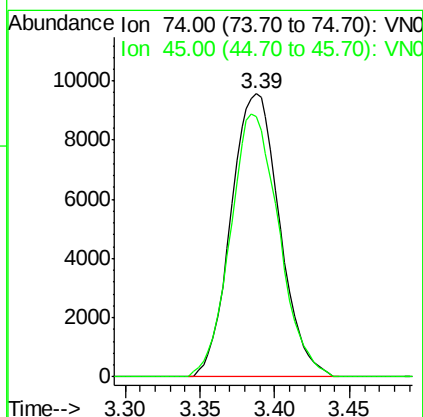
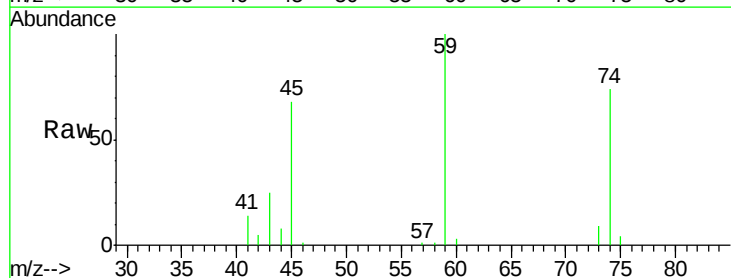
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 2/24/2020 11:41:16 AM



#8

Diethyl Ether
 Concen: 19.991 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion: 74 Resp: 21644
 Ion Ratio Lower Upper
 74 100
 45 92.9 44.7 134.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.125 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

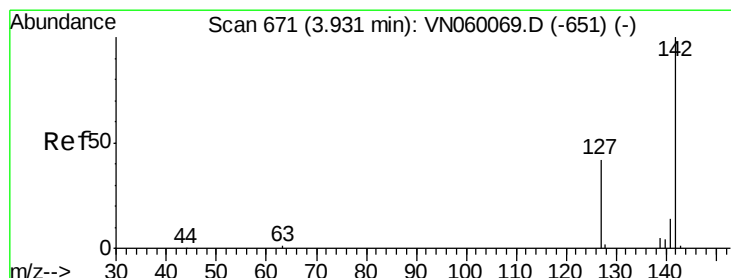
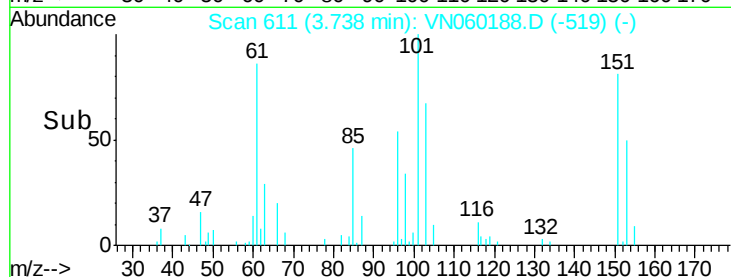
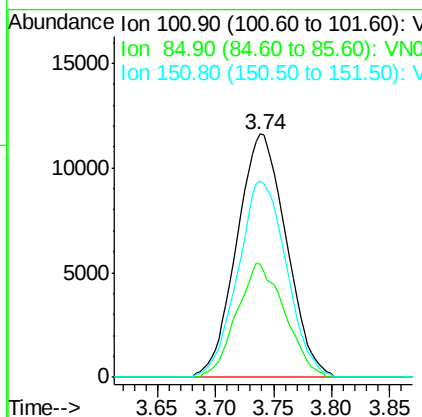
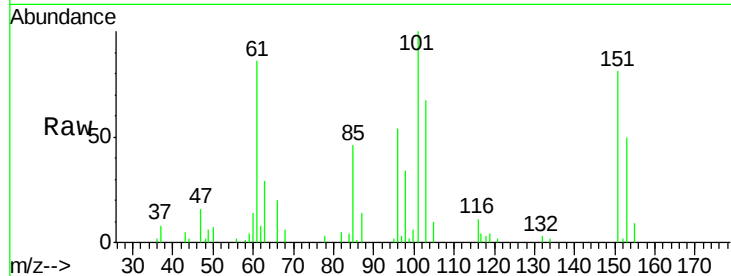
ClientSampleId :

VN0221WBSD01

Tot Ion:	101	Resp:	34535
Ion Ratio	Lower	Upper	
101	100		
85	45.3	35.1	52.7
151	79.1	65.8	98.6

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#10

Methyl Iodide

Concen: 19.675 ug/l

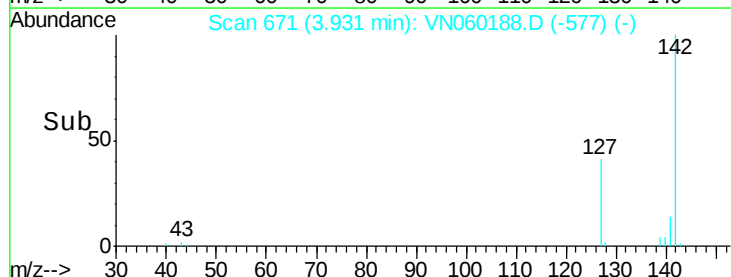
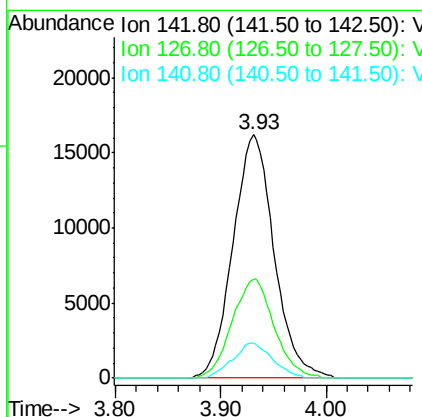
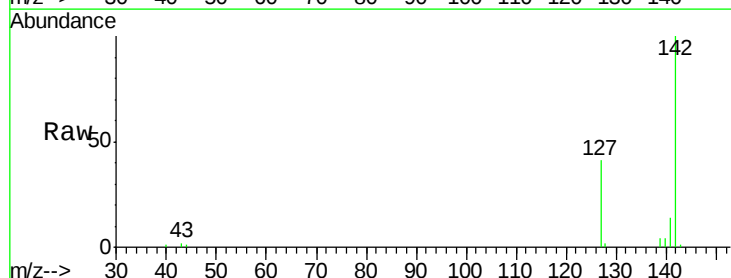
RT: 3.93 min Scan# 671

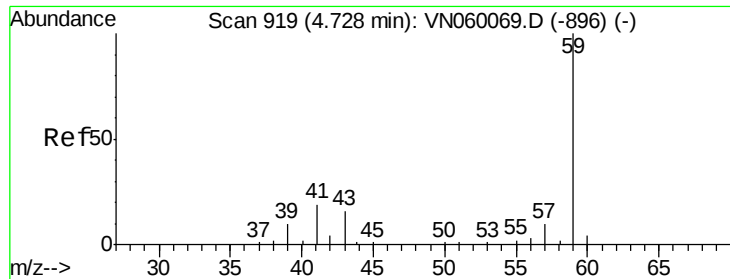
Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	142	Resp:	43892
Ion Ratio	Lower	Upper	
142	100		
127	41.6	33.6	50.4
141	14.0	11.4	17.2





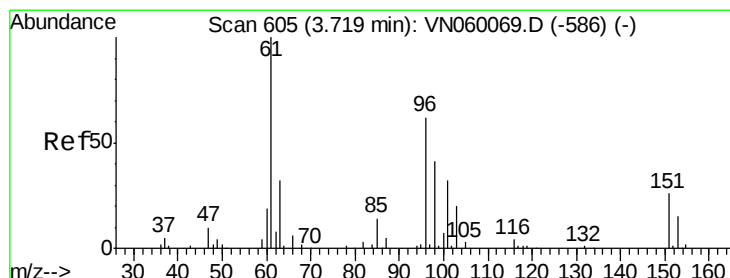
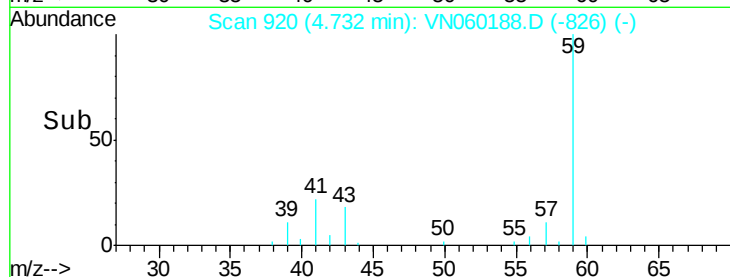
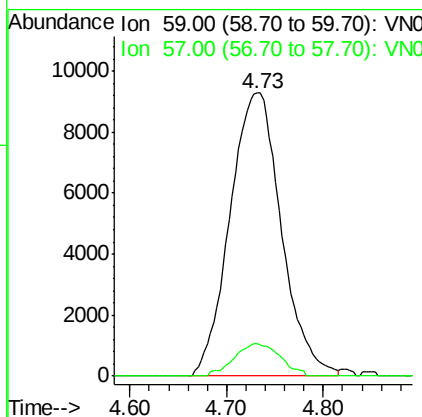
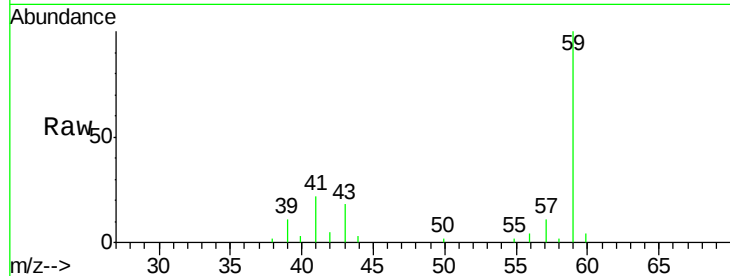
#11
Tert butyl alcohol
Concen: 101.154 ug/l
RT: 4.73 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion: 59 Resp: 34271
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.4

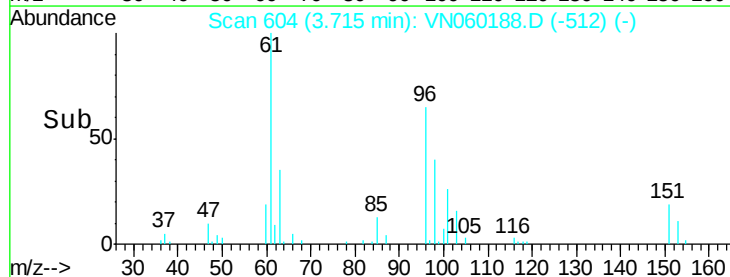
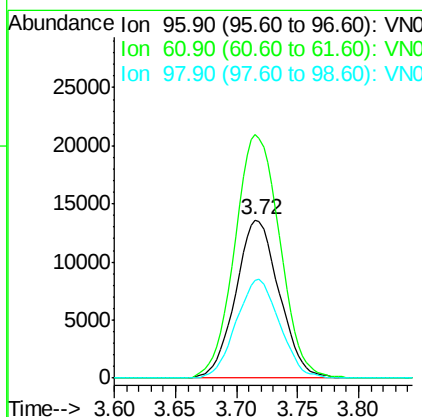
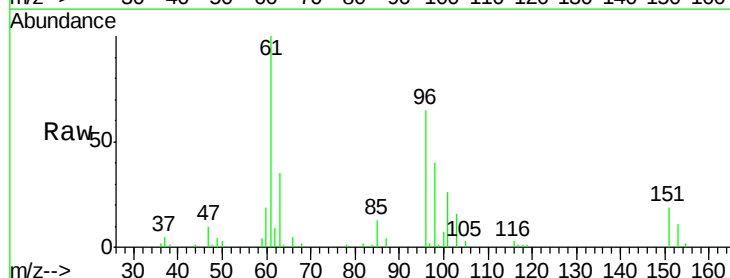
Manual Integrations
APPROVED

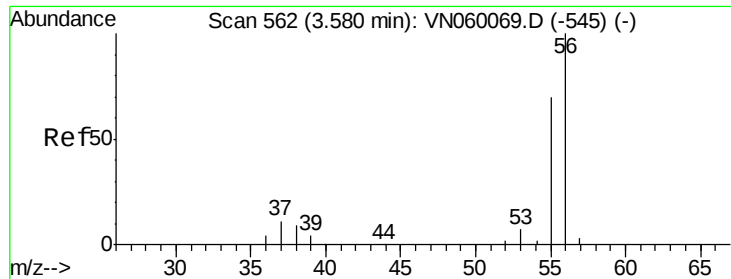
MMDadoda
2/24/2020 11:41:16 AM



#12
1,1-Dichloroethene
Concen: 19.110 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion: 96 Resp: 33616
Ion Ratio Lower Upper
96 100
61 153.7 128.3 192.5
98 61.9 52.2 78.4





#13

Acrolein

Concen: 81.777 ug/l

RT: 3.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion: 56 Resp: 27386

Ion Ratio Lower Upper

56 100

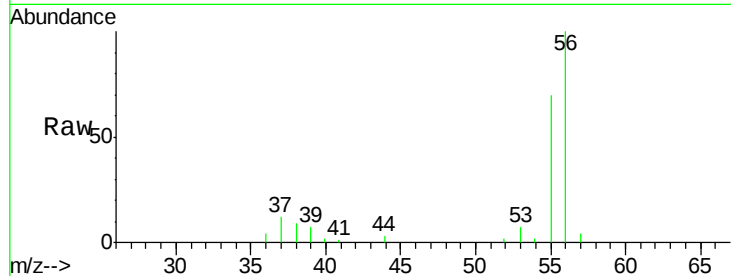
55 71.2 54.8 82.2

Manual Integrations

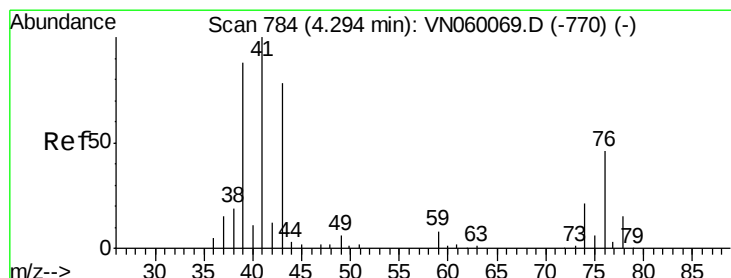
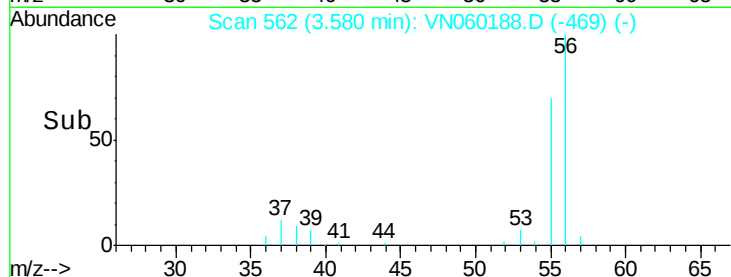
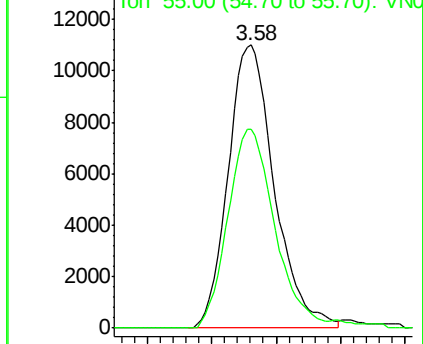
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Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-545) (-)



#14

Allyl chloride

Concen: 18.973 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

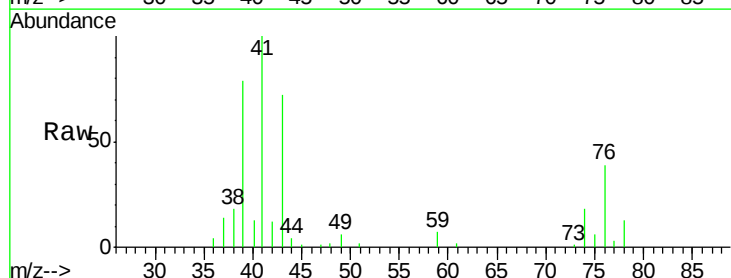
Tgt Ion: 41 Resp: 49124

Ion Ratio Lower Upper

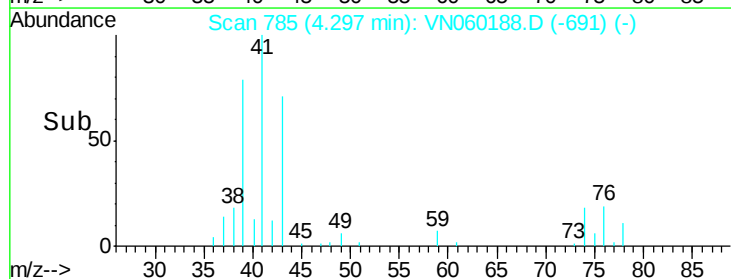
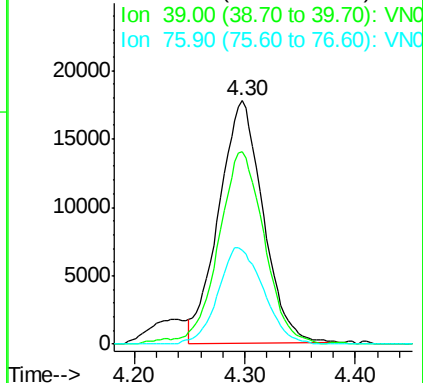
41 100

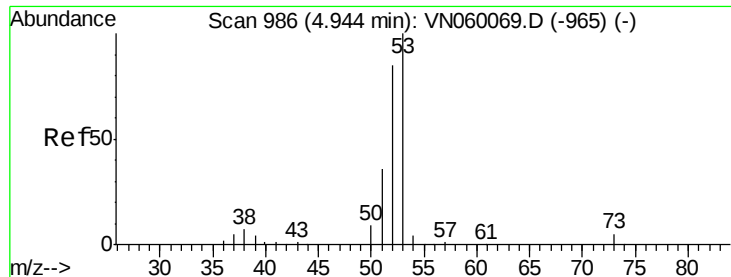
39 82.7 67.8 101.8

76 40.9 33.9 50.9



Abundance Ion 41.00 (40.70 to 41.70): VN060069.D (-770) (-)





#15

Acrylonitrile

Concen: 106.019 ug/l

RT: 4.94 min Scan# 986

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

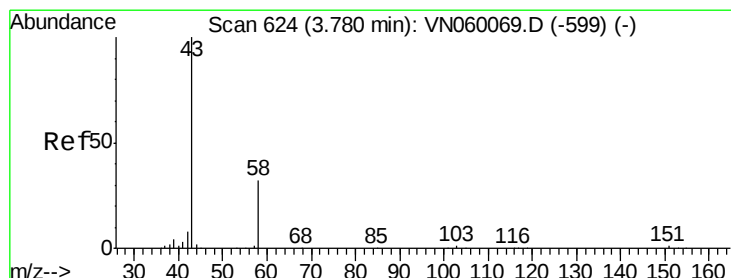
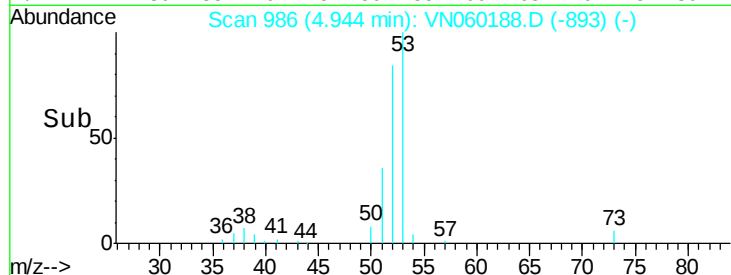
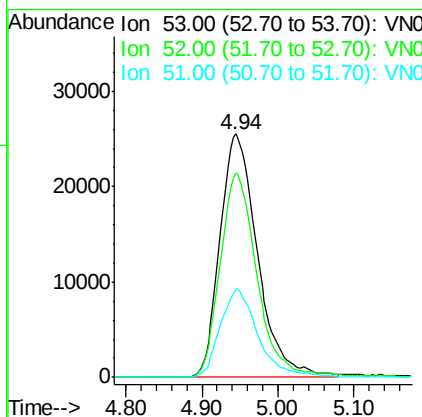
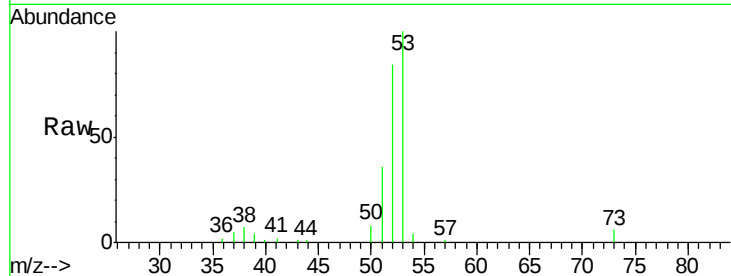
ClientSampleId :

VN0221WBSD01

Tot Ion:	53	Resp:	87720
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.8	100.2
51	36.5	29.4	44.0

Manual Integrations
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#16

Acetone

Concen: 85.788 ug/l

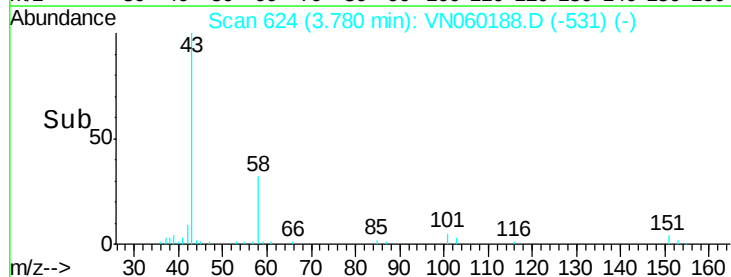
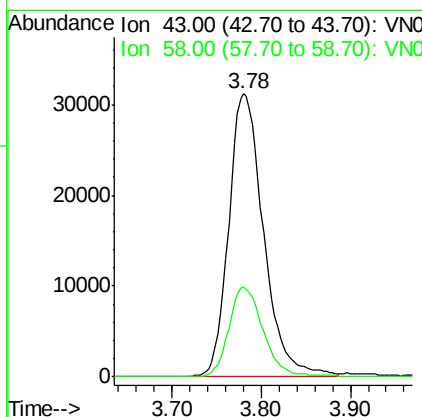
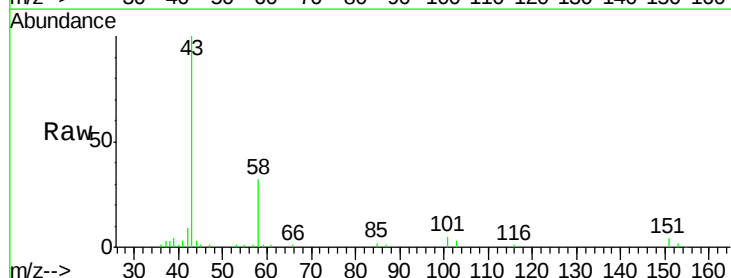
RT: 3.78 min Scan# 624

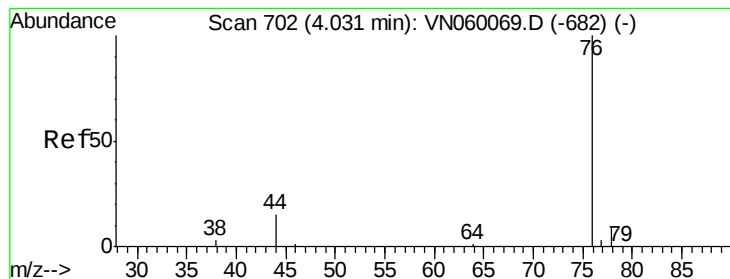
Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	43	Resp:	84721
Ion	Ratio	Lower	Upper
43	100		
58	31.9	25.2	37.8





#17

Carbon Disulfide

Concen: 17.687 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tot Ion: 76 Resp: 93782

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6

Instrument :

MSVOA_N

ClientSampleId :

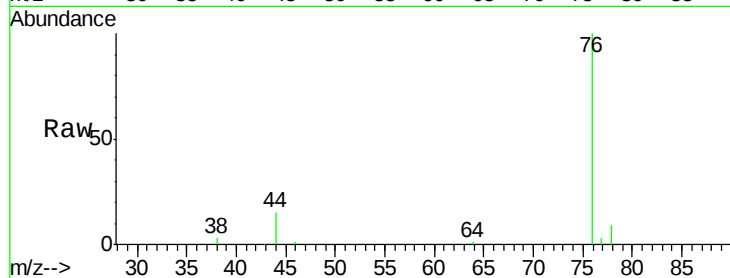
VN0221WBSD01

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

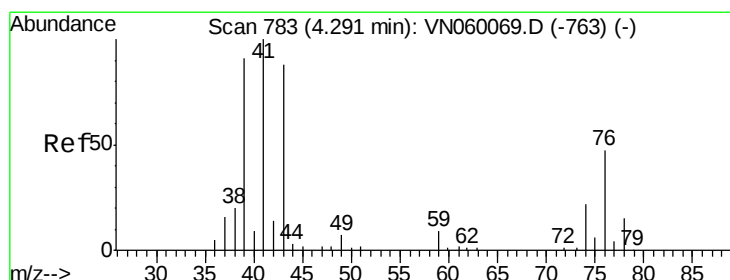
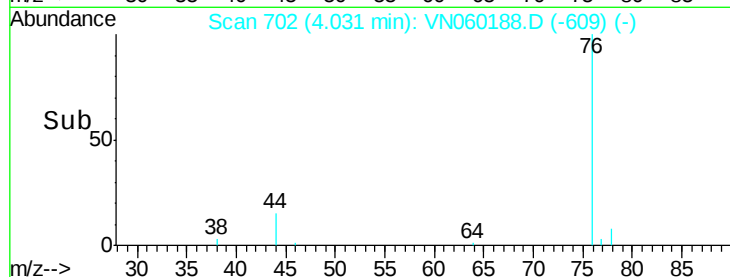
30000

20000

10000

0

Time-->



#18

Methyl Acetate

Concen: 21.450 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060188.D

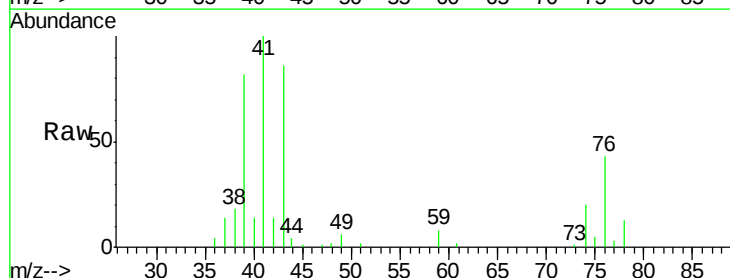
Acq: 21 Feb 2020 14:23

Tgt Ion: 43 Resp: 39792

Ion Ratio Lower Upper

43 100

74 24.8 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

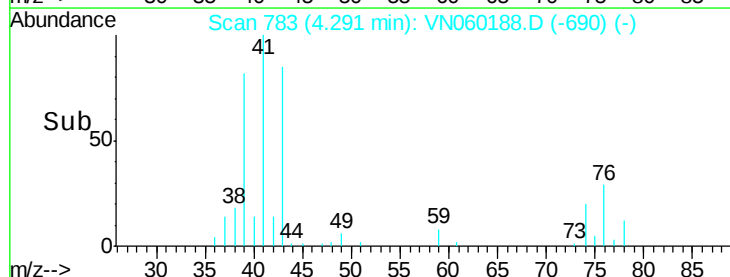
15000

10000

5000

0

Time-->





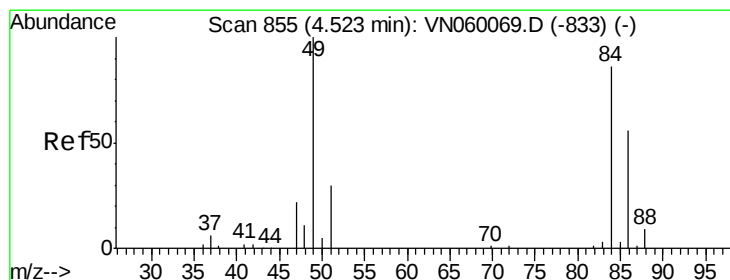
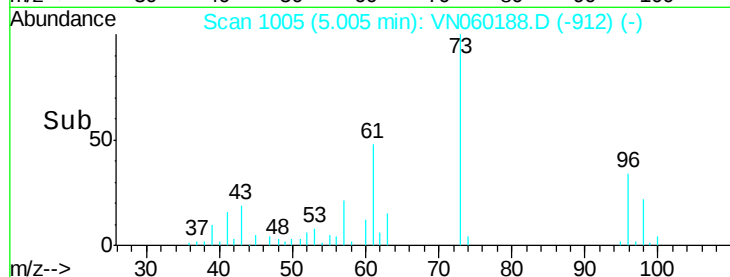
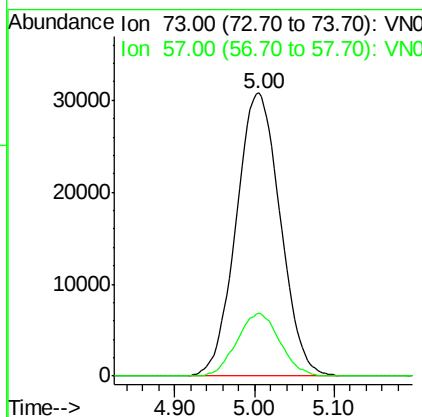
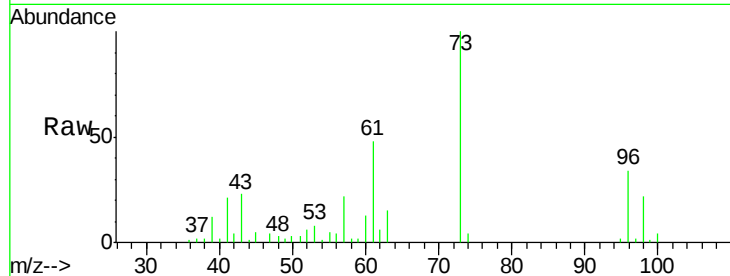
#19
Methvl tert-butvl Ether
Concen: 19.533 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion: 73 Resp: 11551
Ion Ratio Lower Upper
73 100
57 22.2 17.2 25.8

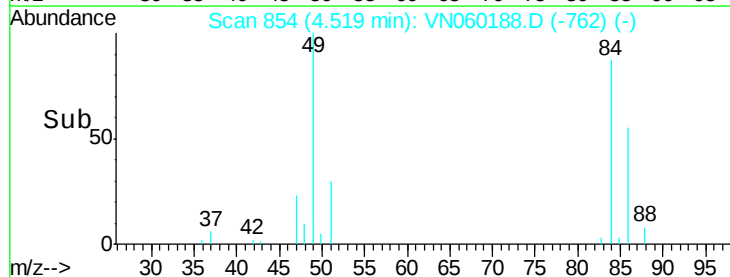
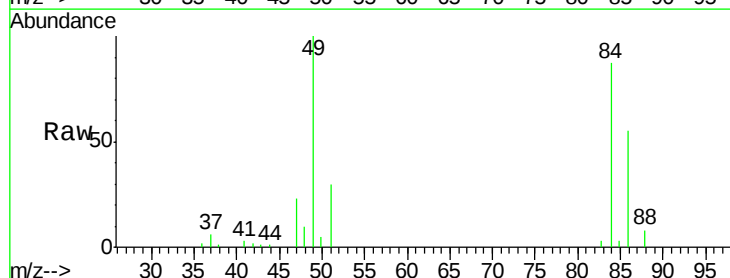
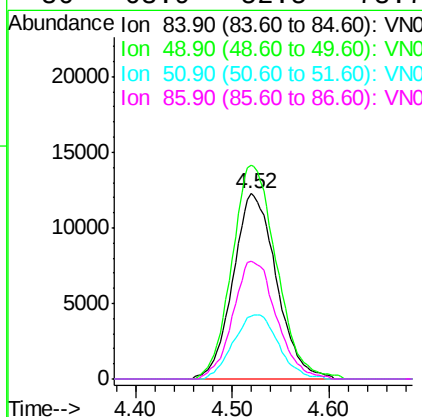
Manual Integrations
APPROVED

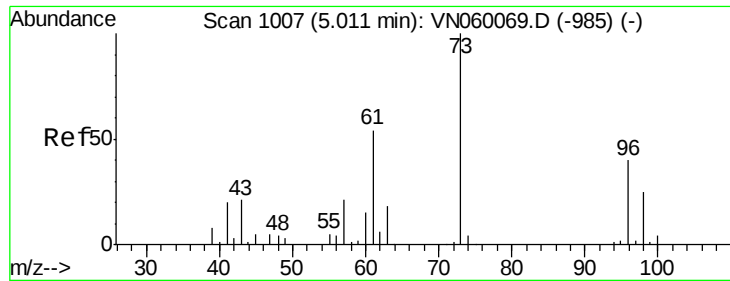
MMDadoda
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#20
Methylene Chloride
Concen: 19.435 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion: 84 Resp: 38292
Ion Ratio Lower Upper
84 100
49 115.4 93.4 140.0
51 34.1 28.4 42.6
86 63.9 52.5 78.7





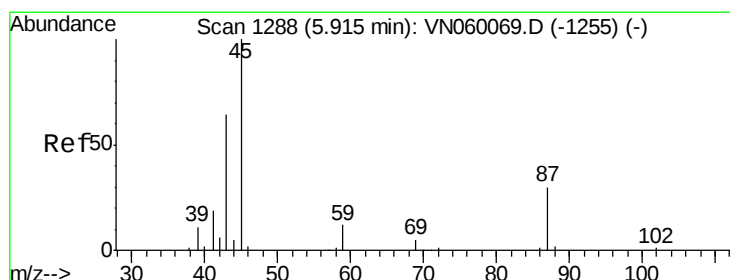
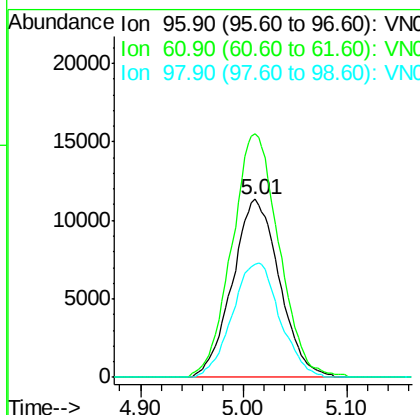
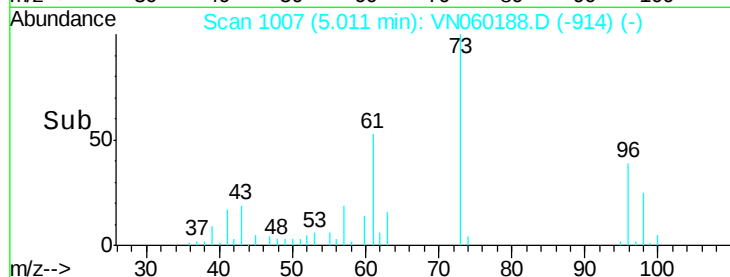
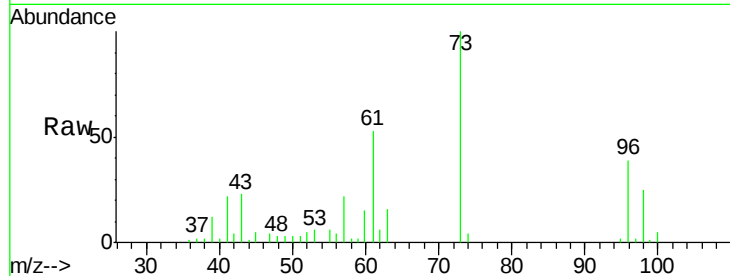
#21
trans-1,2-Dichloroethene
Concen: 18.822 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.0	109.3	163.9
98	63.8	51.0	76.6

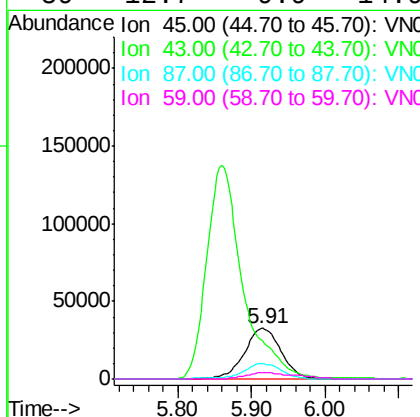
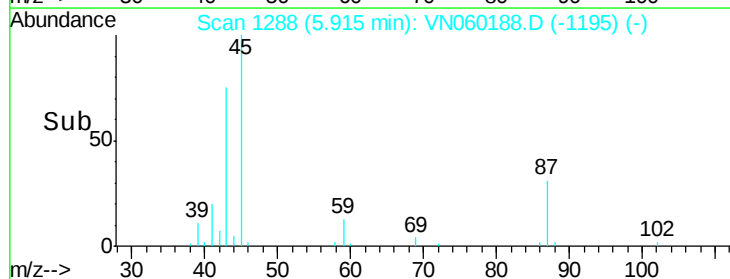
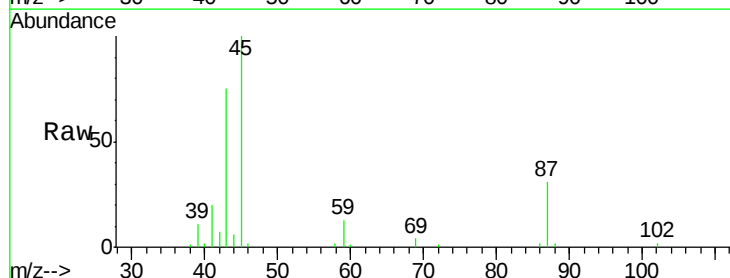
Manual Integrations
APPROVED

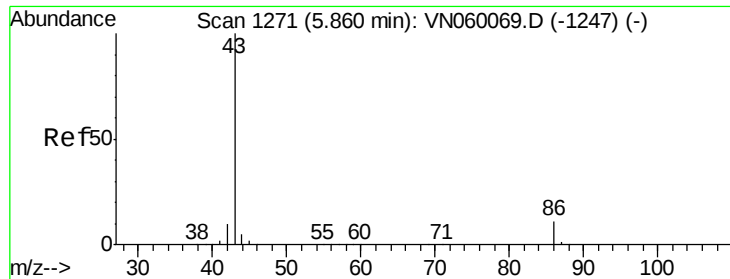
MMDadoda
2/24/2020 11:41:16 AM



#22
Diisopropyl ether
Concen: 19.964 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
45	100		
43	72.7	55.9	83.9
87	30.8	24.5	36.7
59	12.7	9.9	14.9





#23

Vinyl Acetate

Concen: 99.244 ug/l

RT: 5.86 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion: 43 Resp: 472914

Ion Ratio Lower Upper

43 100

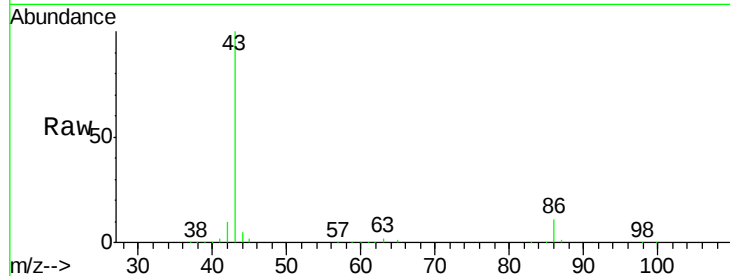
86 10.7 8.9 13.3

Manual Integrations

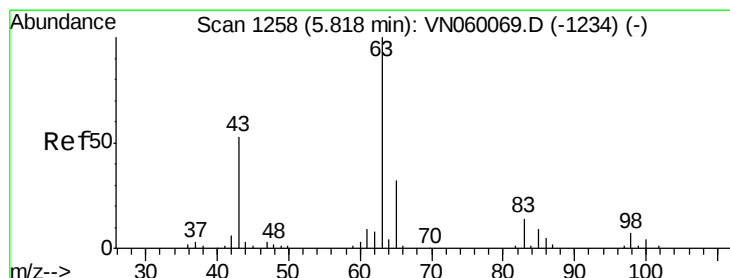
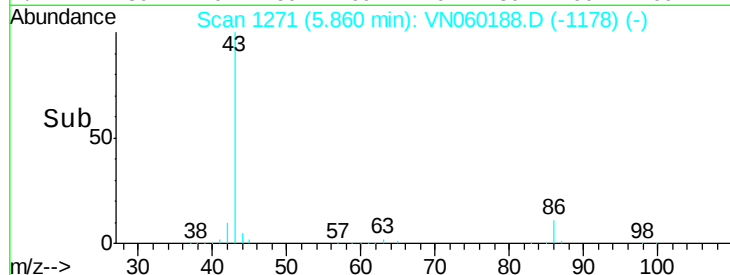
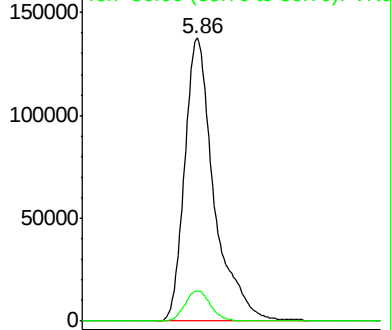
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Abundance Ion 43.00 (42.70 to 43.70): VN060188.D (-1178) (-)



#24

1,1-Dichloroethane

Concen: 19.597 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

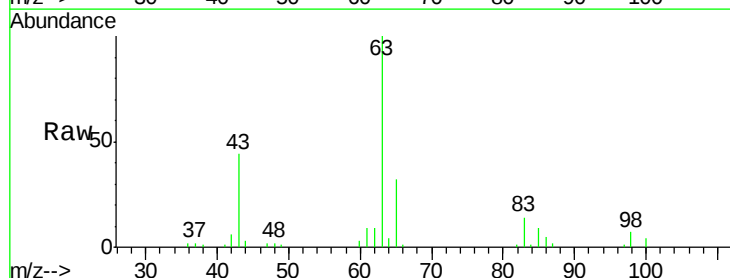
Tgt Ion: 63 Resp: 67366

Ion Ratio Lower Upper

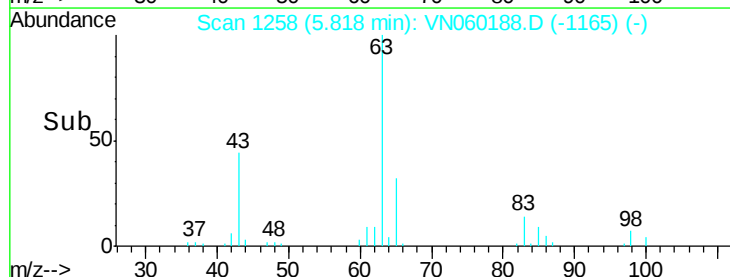
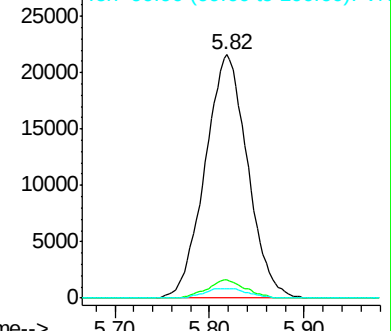
63 100

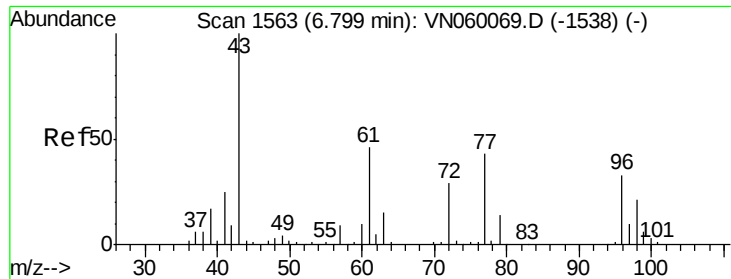
98 7.3 3.5 10.5

100 3.9 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN060188.D (-1165) (-)





#25

2-Butanone

Concen: 95.672 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tot Ion: 43 Resp: 118827

Ion Ratio Lower Upper

43 100

72 28.0 23.3 34.9

Instrument :

MSVOA_N

ClientSampleId :

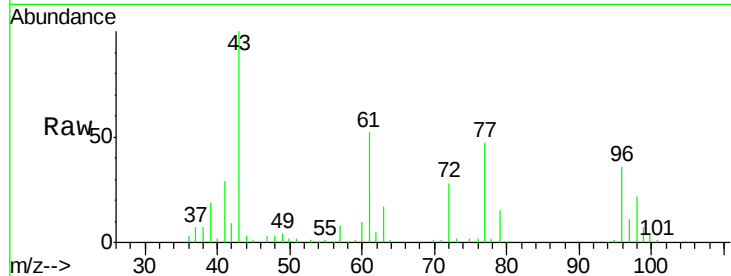
VN0221WBSD01

Manual Integrations

APPROVED

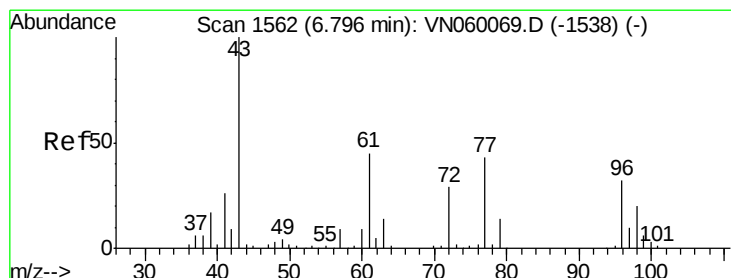
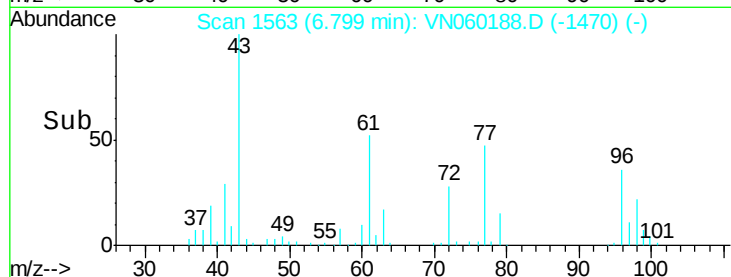
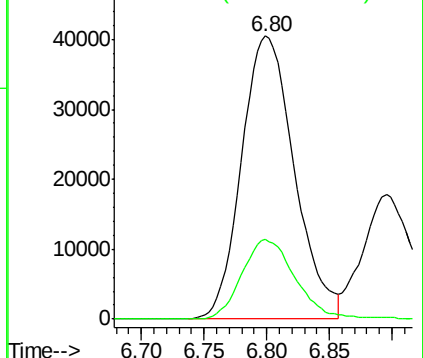
MMDadoda

2/24/2020 11:41:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 19.279 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VN060188.D

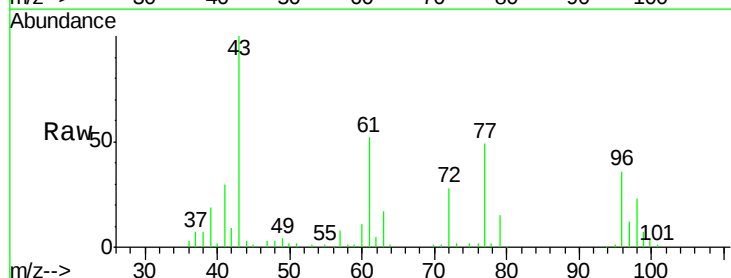
Acq: 21 Feb 2020 14:23

Tgt Ion: 77 Resp: 62945

Ion Ratio Lower Upper

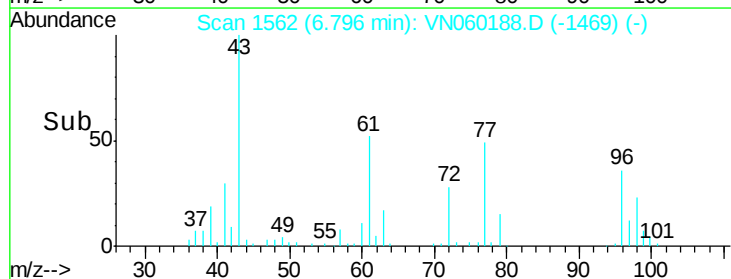
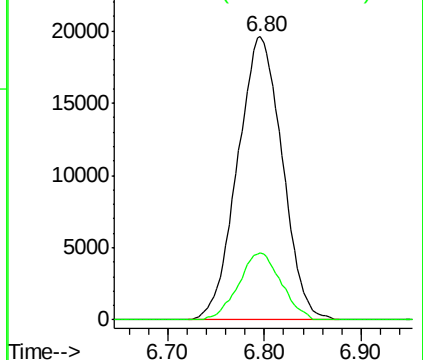
77 100

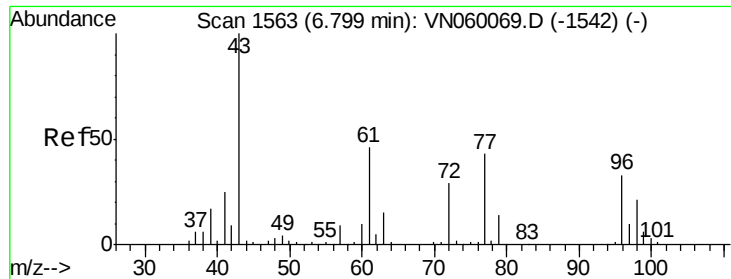
97 22.6 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 19.012 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

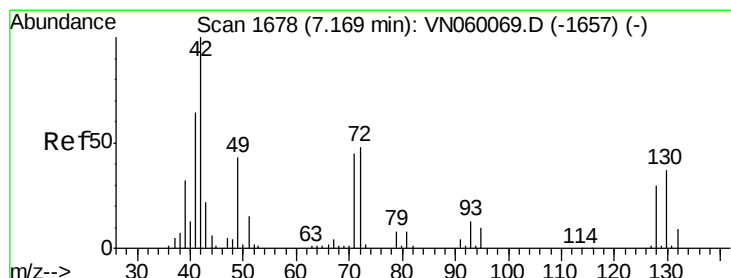
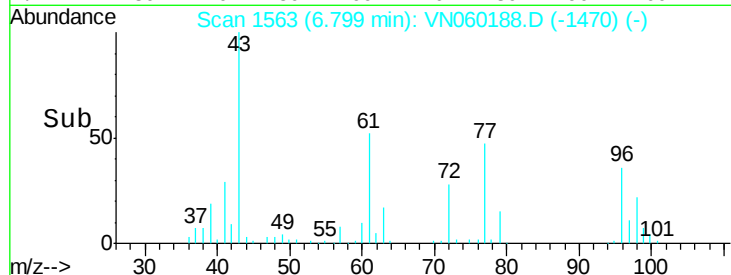
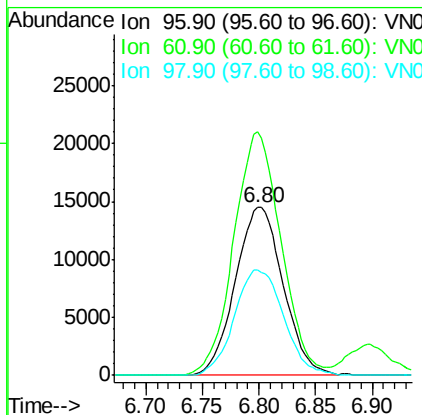
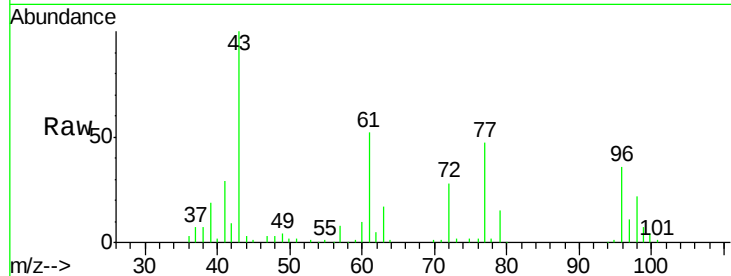
ClientSampleId :

VN0221WBSD01

Tot Ion:	96	Resp:	42666
Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	285.8
98	64.6	0.0	129.6

Manual Integrations
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2/24/2020 11:41:16 AM



#28

Bromochloromethane

Concen: 18.561 ug/l

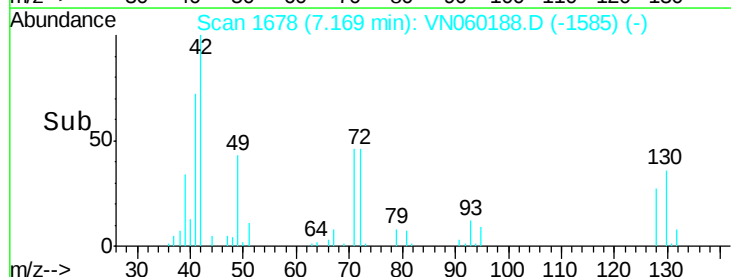
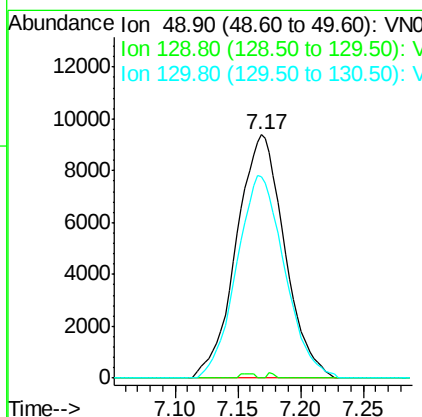
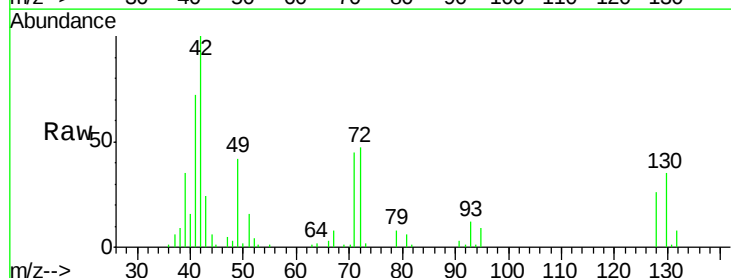
RT: 7.17 min Scan# 1678

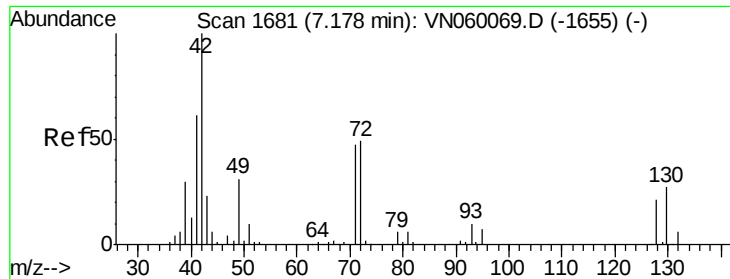
Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	49	Resp:	25083
Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	2.2
130	82.8	66.8	100.2





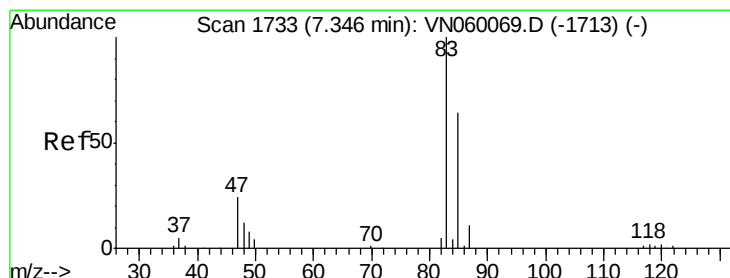
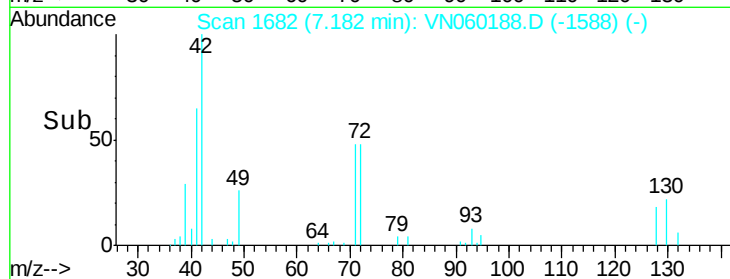
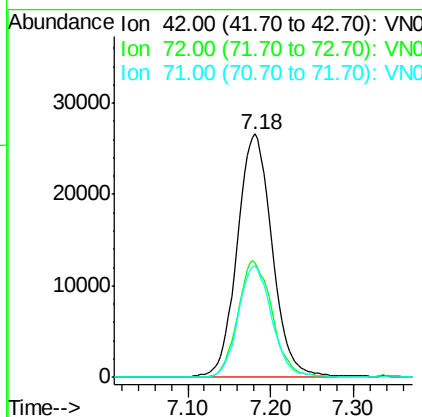
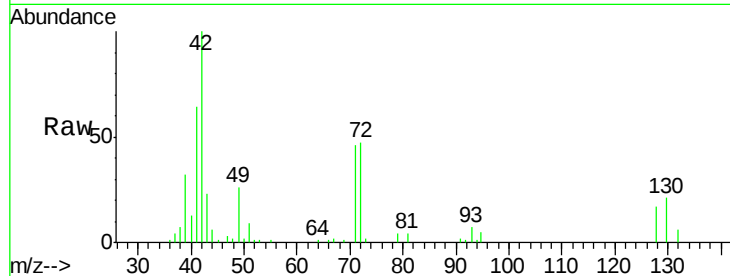
#29
Tetrahydrofuran
Concen: 102.598 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.9	38.2	57.4
71	44.1	36.6	54.8

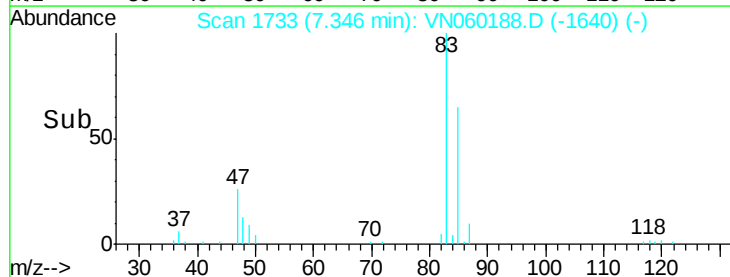
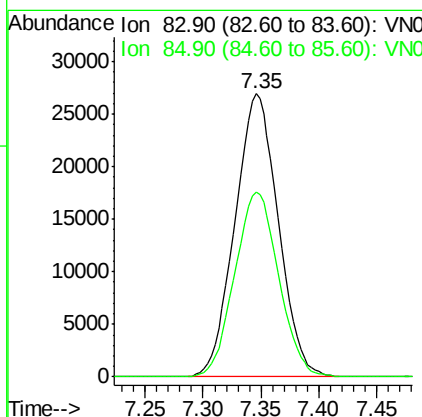
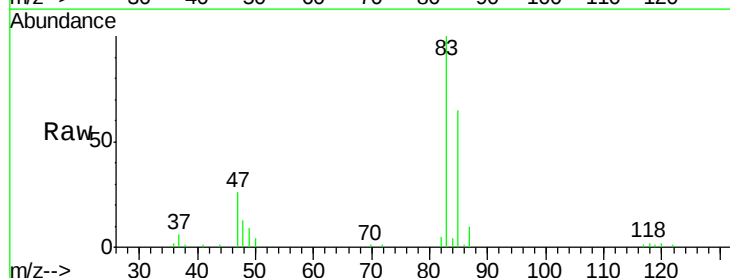
Manual Integrations
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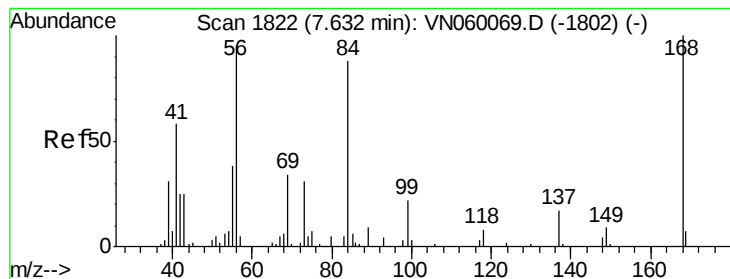
MMDadoda
2/24/2020 11:41:16 AM



#30
Chloroform
Concen: 19.407 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.4	77.0





#31

Cyclohexane

Concen: 19.114 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

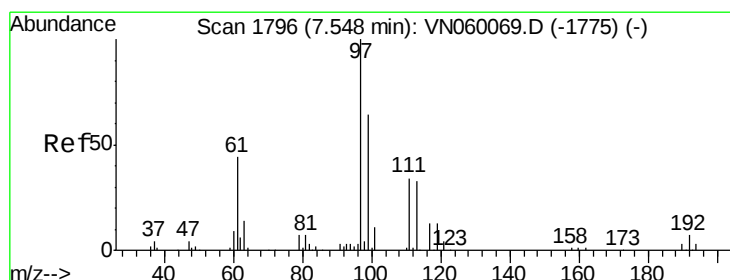
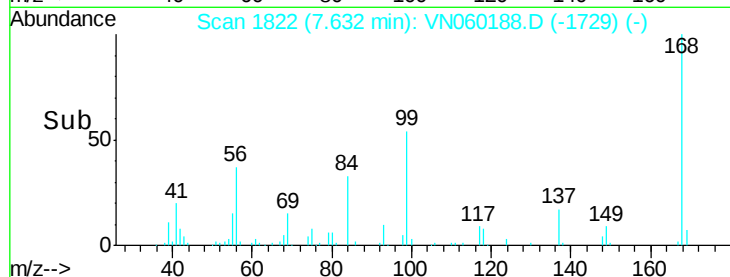
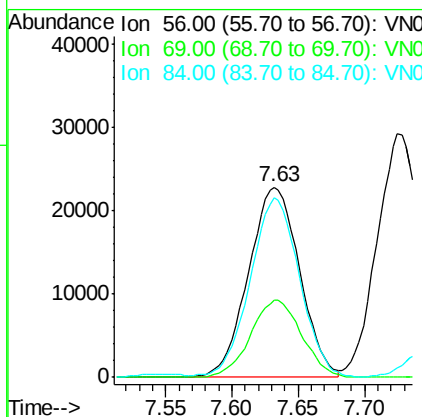
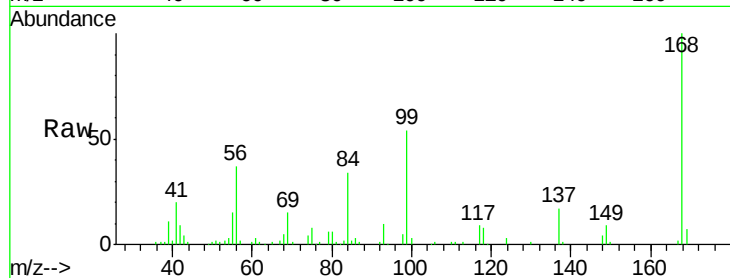
ClientSampleId :

VN0221WBSD01

Tot Ion:	56	Resp:	61204
Ion	Ratio	Lower	Upper
56	100		
69	40.7	28.3	42.5
84	93.3	72.6	108.8

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#32

1,1,1-Trichloroethane

Concen: 19.082 ug/l

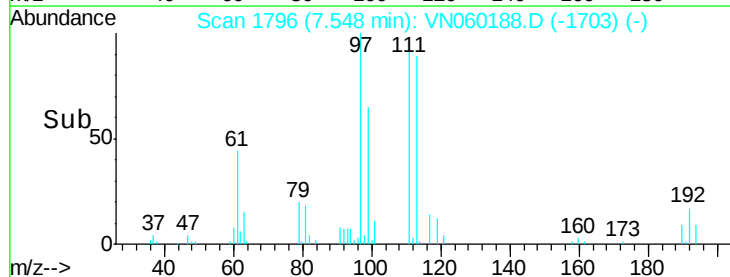
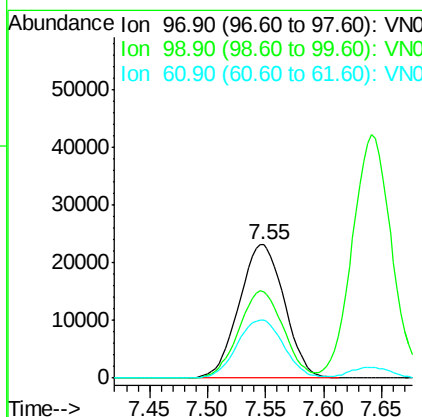
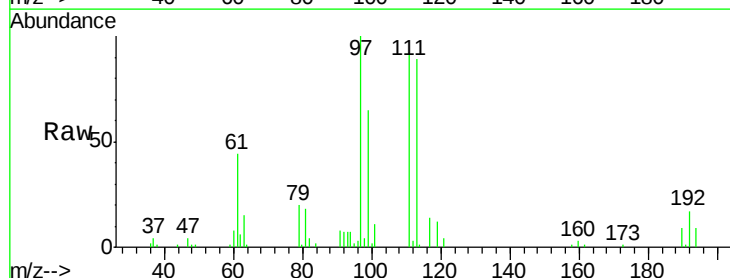
RT: 7.55 min Scan# 1796

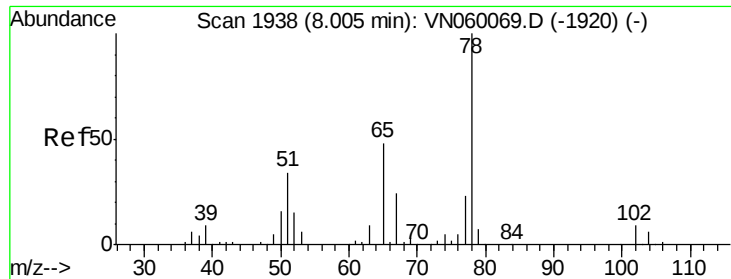
Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	97	Resp:	62791
Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	44.7	34.9	52.3





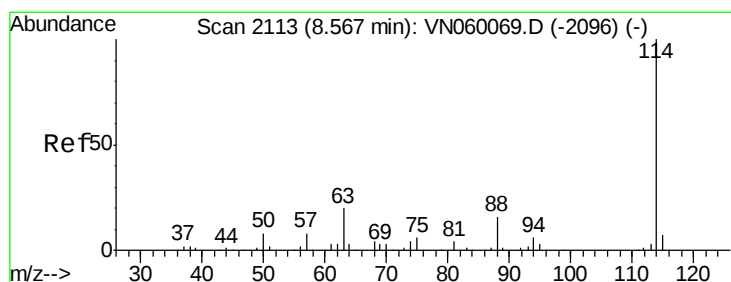
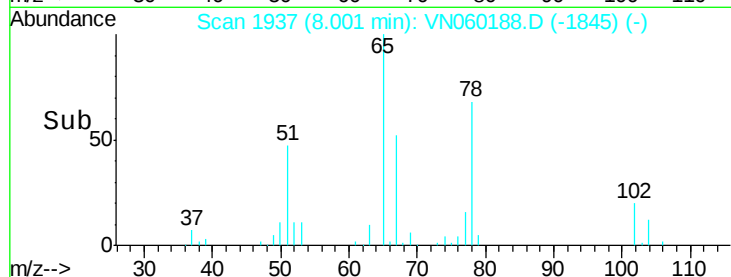
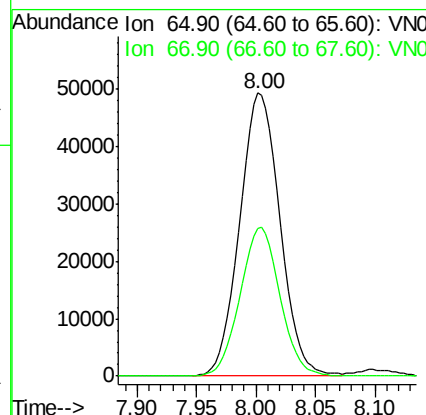
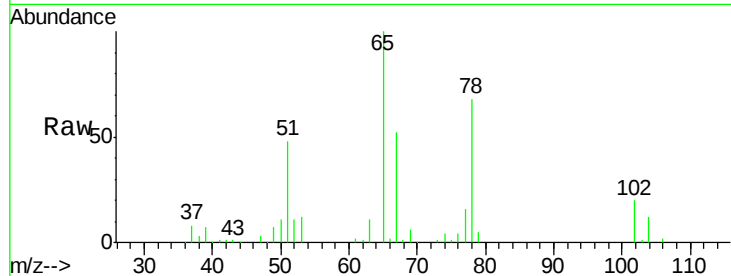
#33
 1,2-Dichloroethane-d4
 Concen: 51.174 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.9	0.0	104.0	

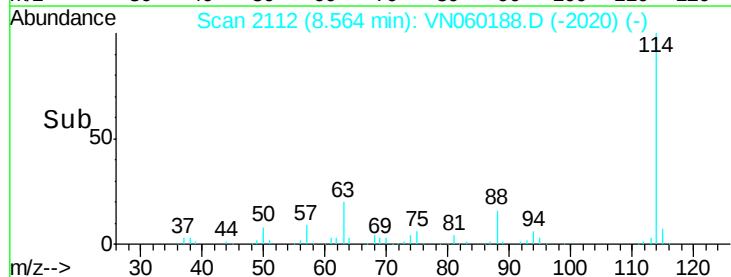
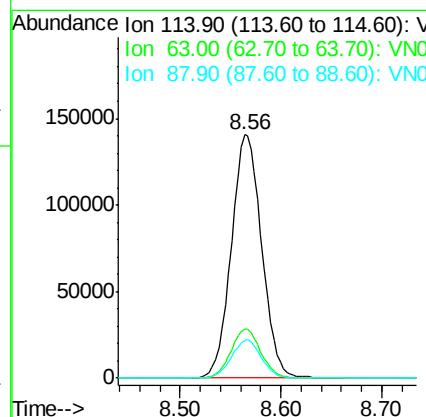
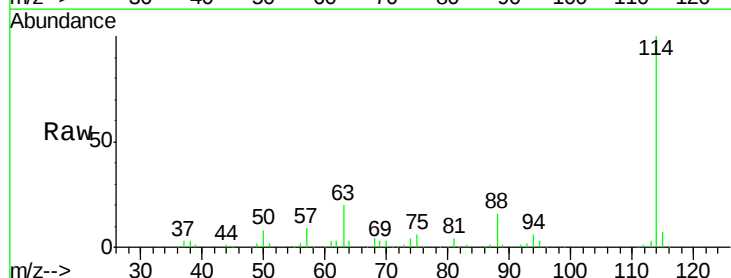
Manual Integrations
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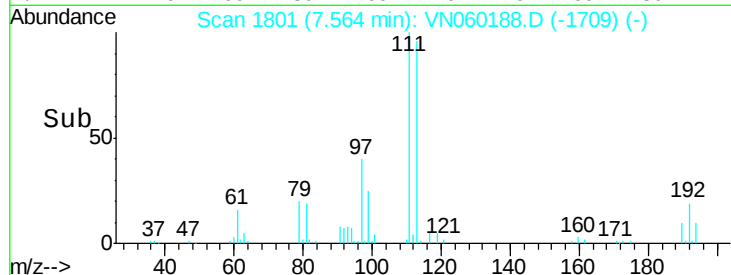
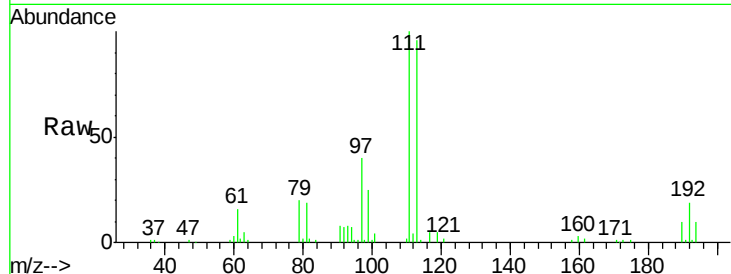
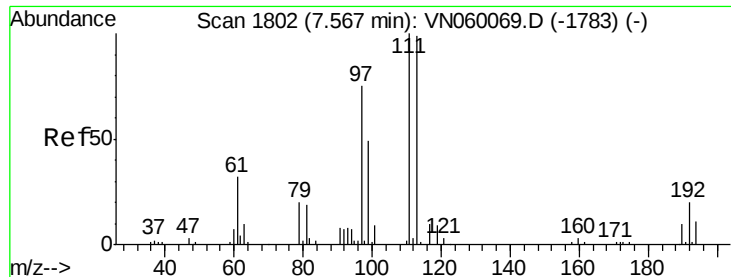
MMDadoda
 2/24/2020 11:41:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.1	0.0	40.0	
88	15.5	0.0	31.6	





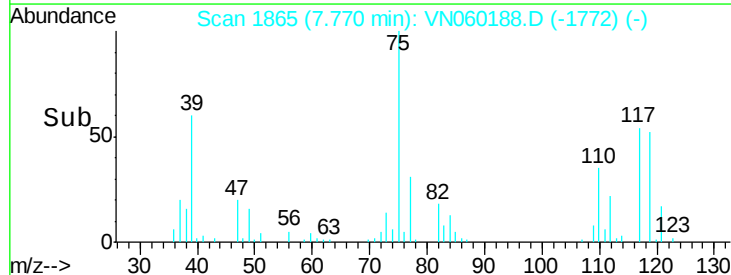
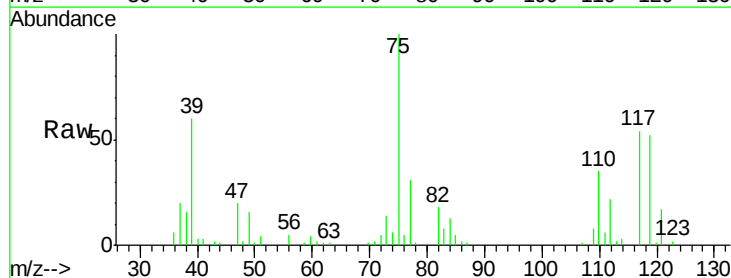
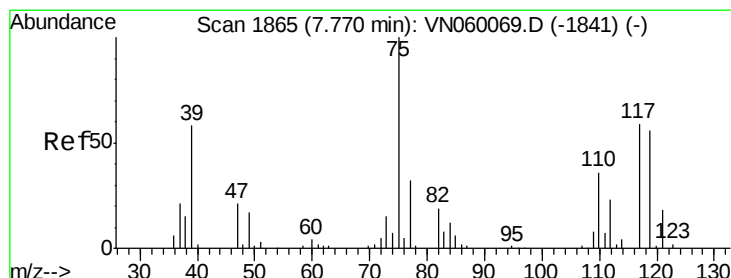
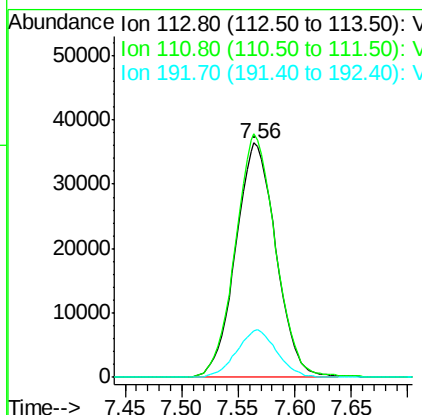
#35
Dibromofluoromethane
Concen: 49.972 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.4	122.2
192	20.1	16.2	24.2

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

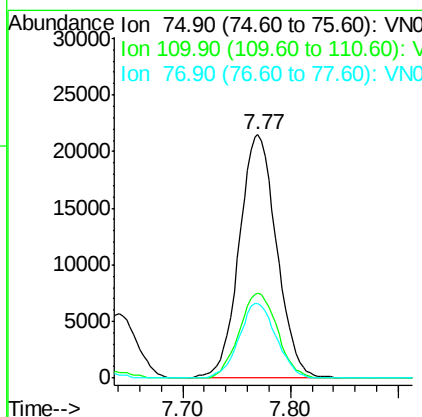
Manual Integrations
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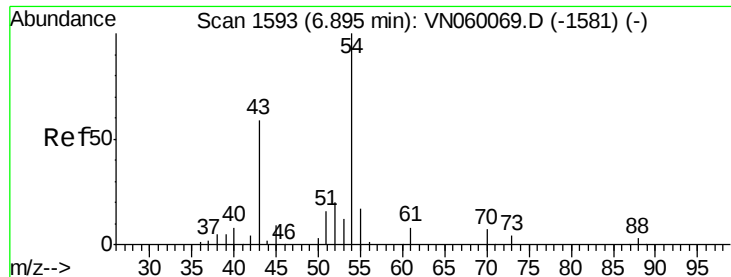
MMDadoda
2/24/2020 11:41:16 AM



#36
1,1-Dichloropropene
Concen: 19.053 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.3
77	30.6	25.1	37.7





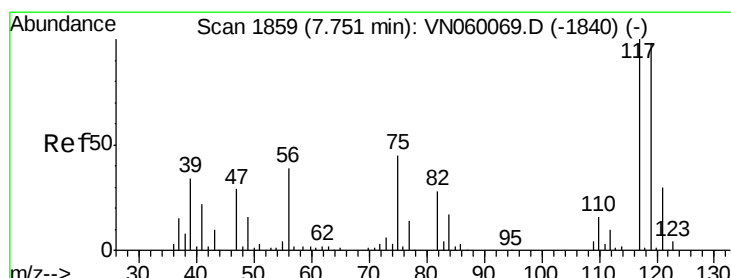
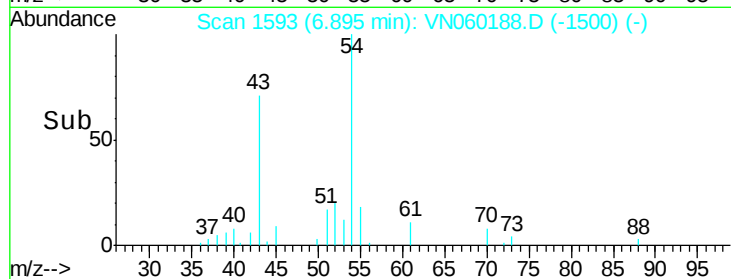
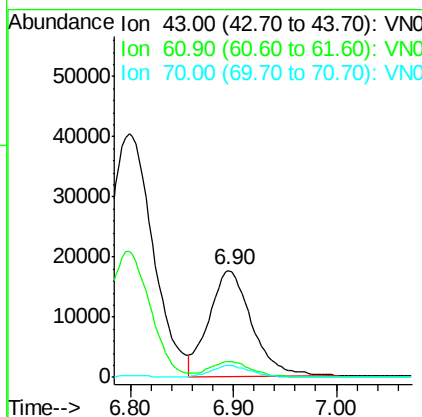
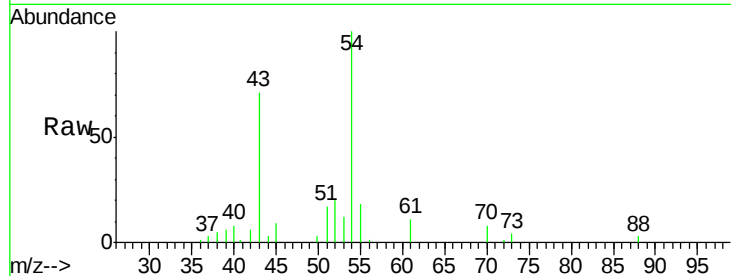
#37
Ethyl Acetate
Concen: 20.313 ug/l
RT: 6.90 min Scan# 1593
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.4	17.2
70	10.2	8.7	13.1

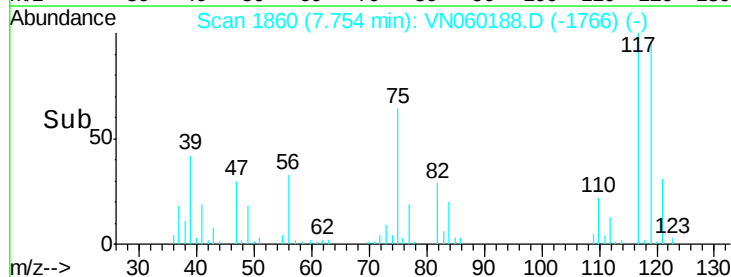
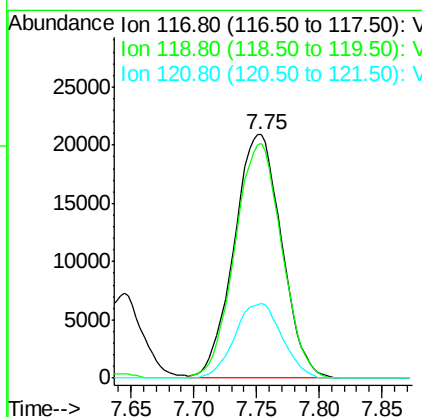
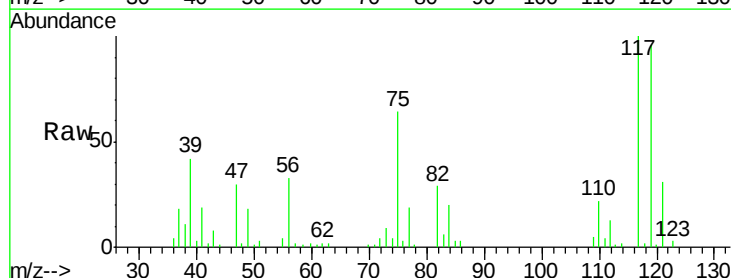
Manual Integrations
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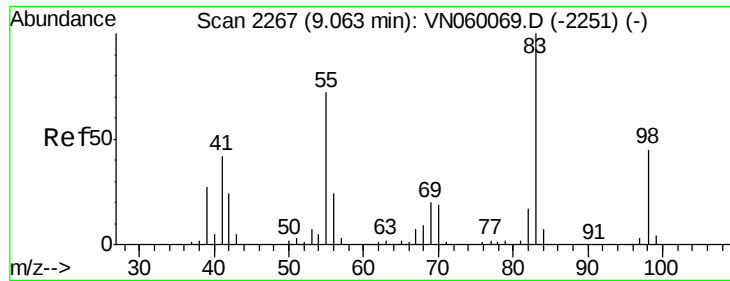
MMDadoda
2/24/2020 11:41:16 AM



#38
Carbon Tetrachloride
Concen: 18.603 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	78.2	117.4
121	30.7	24.2	36.2





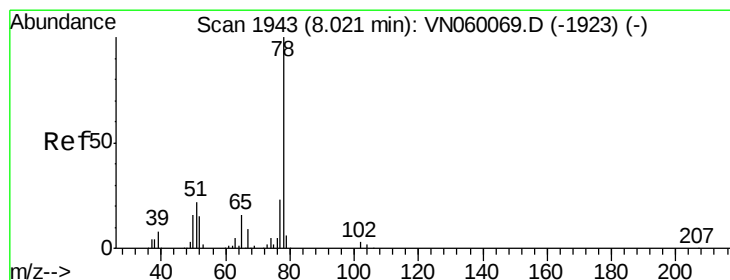
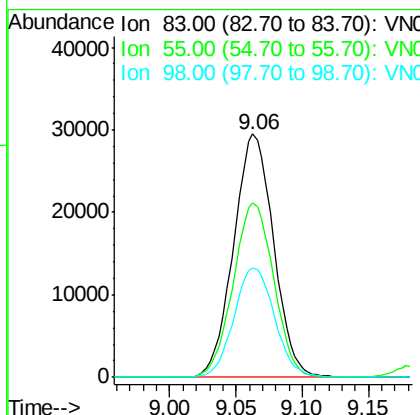
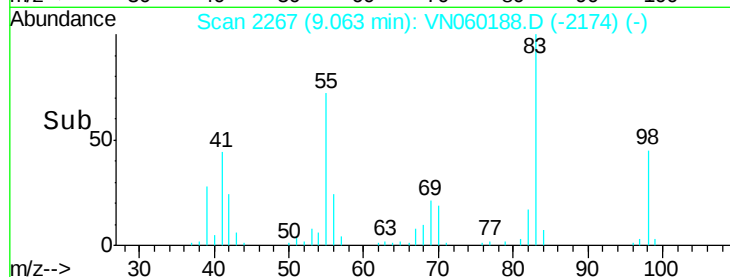
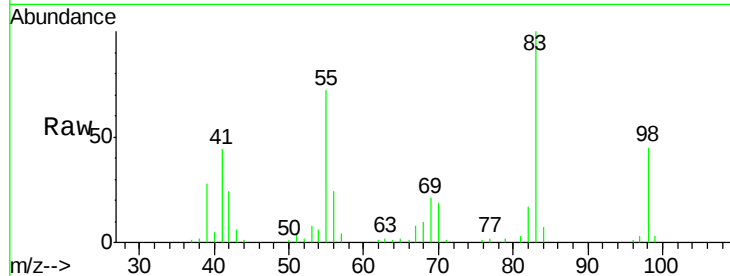
#39
Methvlcvclohexane
Concen: 18.323 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.7	57.8	86.8
98	45.1	36.4	54.6

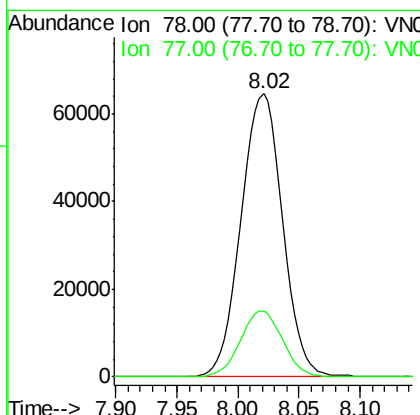
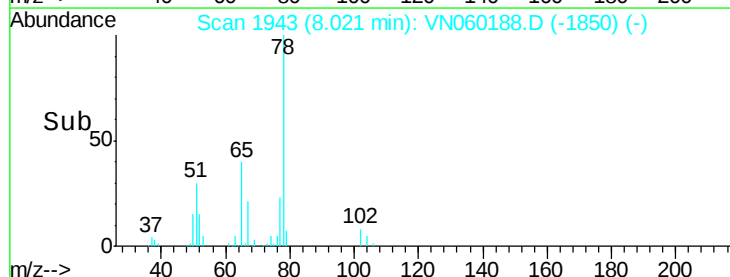
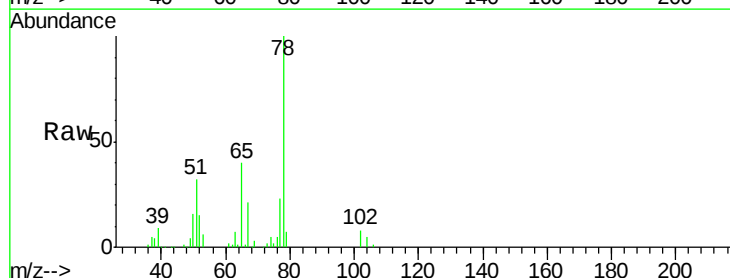
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#40
Benzene
Concen: 18.842 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





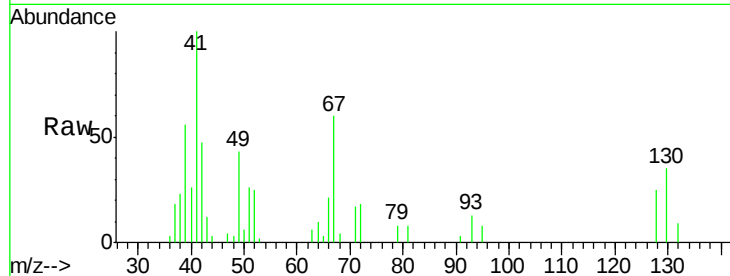
#41
Methacrylonitrile
Concen: 18.950 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	41	Resp	19578
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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2/24/2020 11:41:16 AM

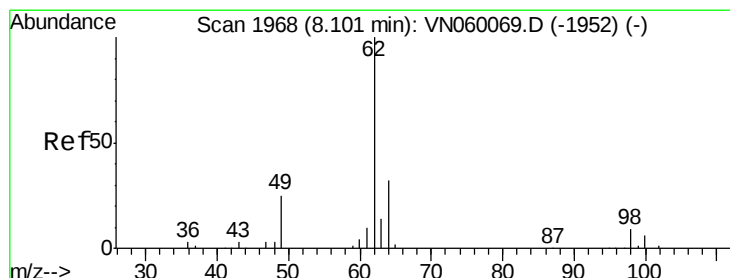
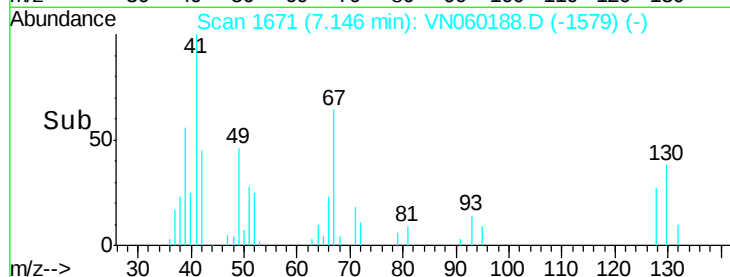
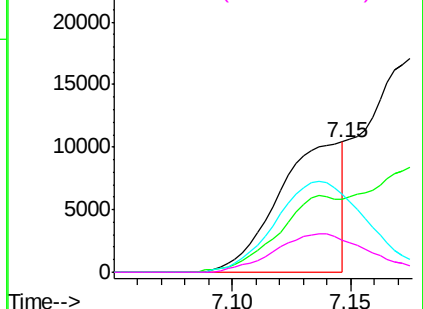


Abundance Ion 41.00 (40.70 to 41.70): VN060188.D (-1579) (-)

Ion 39.00 (38.70 to 39.70): VN060188.D (-1579) (-)

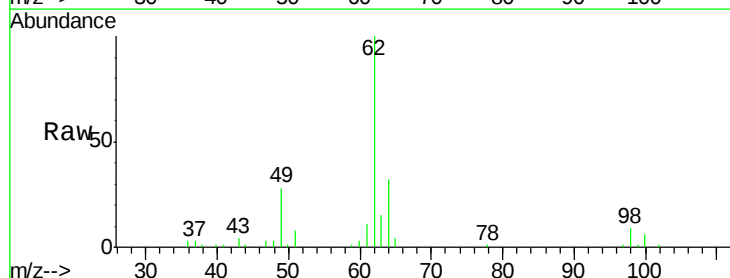
Ion 67.00 (66.70 to 67.70): VN060188.D (-1579) (-)

Ion 52.00 (51.70 to 52.70): VN060188.D (-1579) (-)



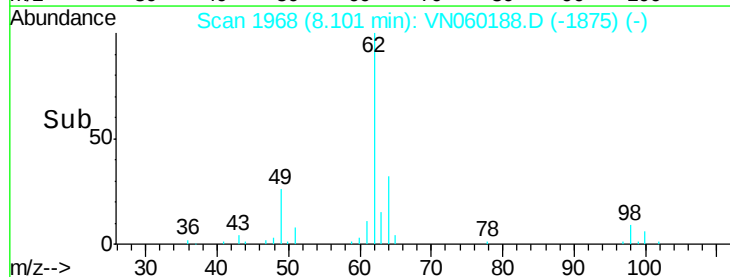
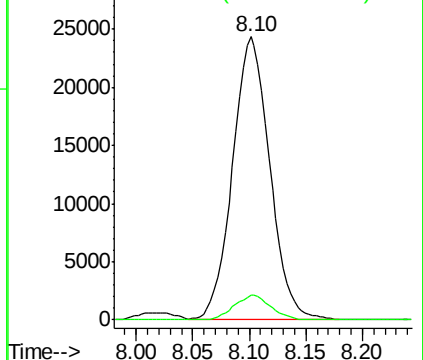
#42
1,2-Dichloroethane
Concen: 19.725 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

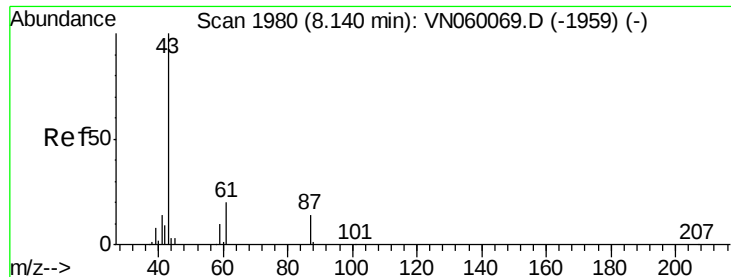
Tgt Ion	62	Resp	55901
Ion Ratio	Lower	Upper	
62	100		
98	8.5	0.0	18.2



Abundance Ion 61.90 (61.60 to 62.60): VN060188.D (-1875) (-)

Ion 97.90 (97.60 to 98.60): VN060188.D (-1875) (-)





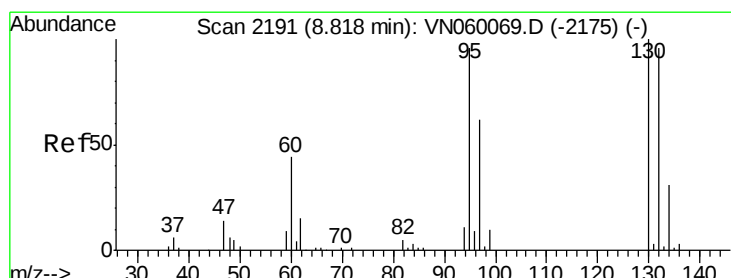
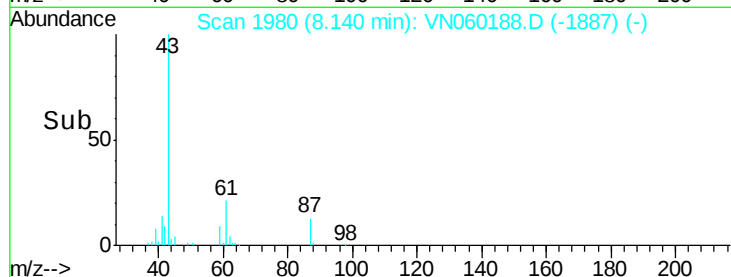
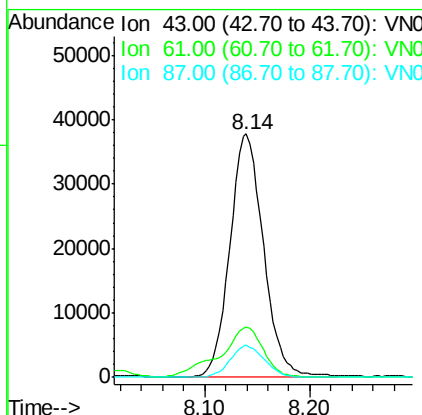
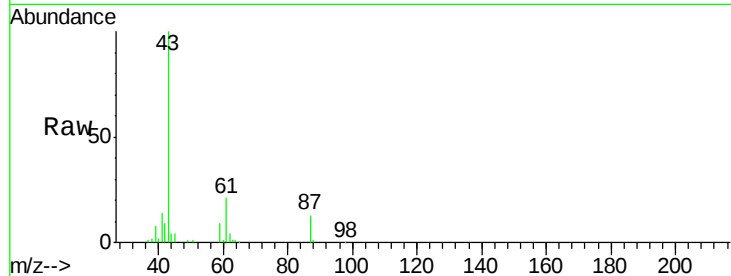
#43
Isopropyl Acetate
Concen: 19.869 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.7	21.8	32.6
87	13.2	11.4	17.2

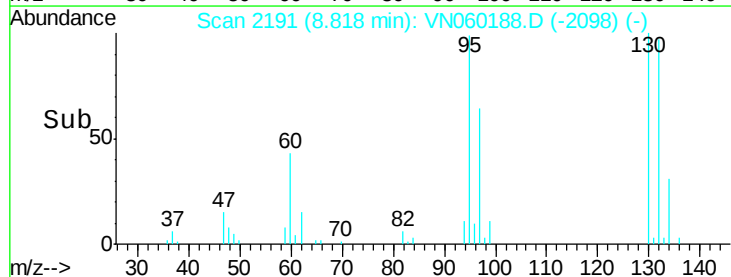
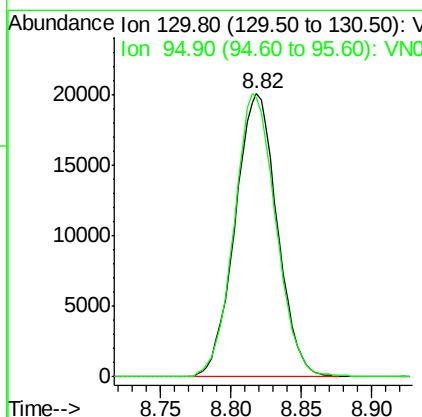
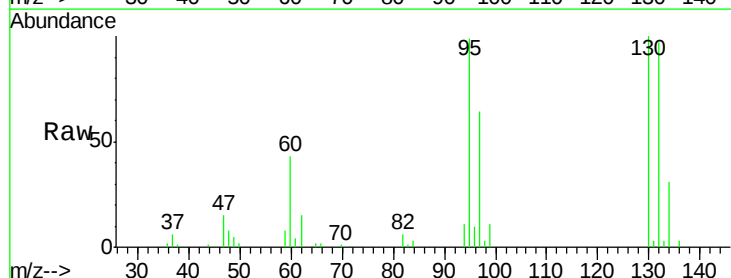
Manual Integrations
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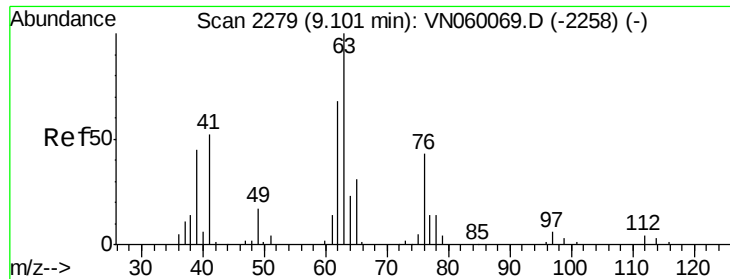
MMDadoda
2/24/2020 11:41:16 AM



#44
Trichloroethene
Concen: 18.671 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	192.4





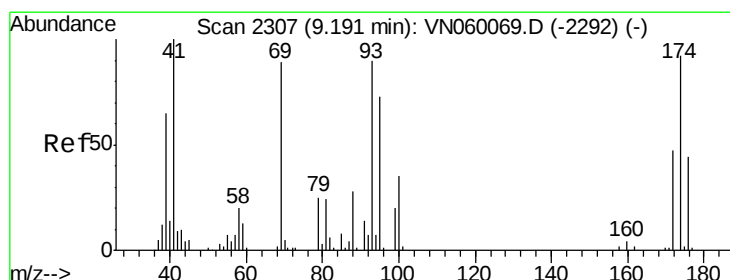
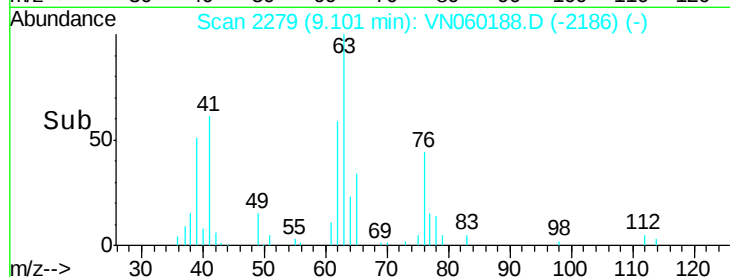
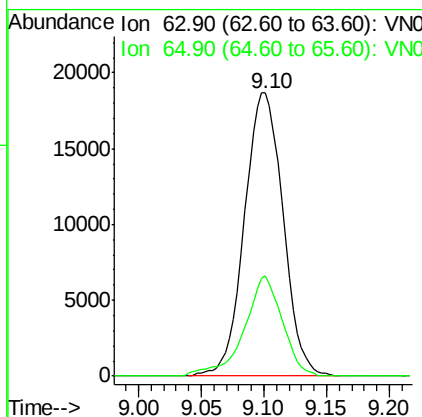
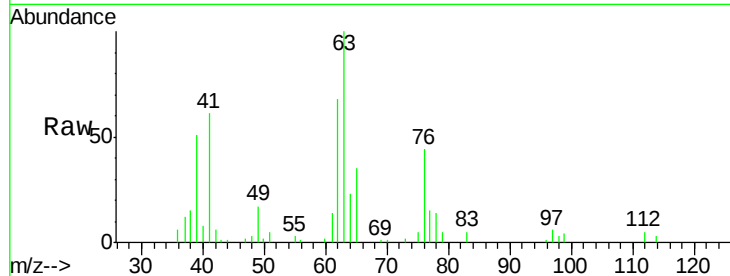
#45
 1,2-Dichloropropane
 Concen: 20.020 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0221WBSD01

Tot Ion: 63 Resp: 40077
 Ion Ratio Lower Upper
 63 100
 65 35.3 25.0 37.4

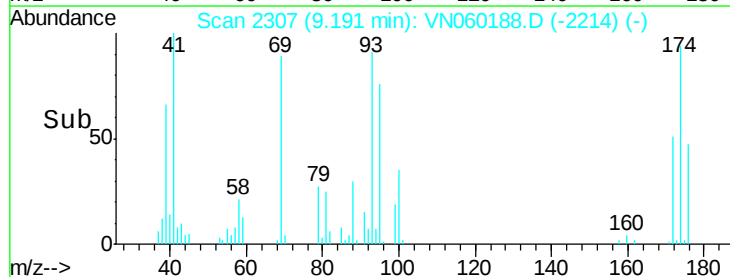
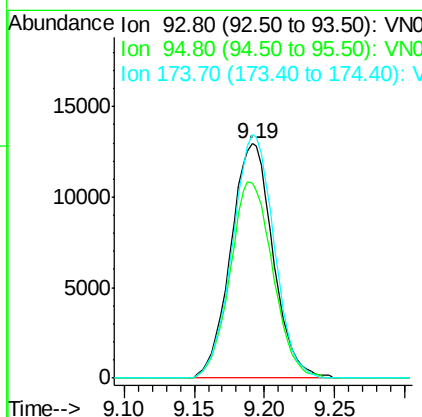
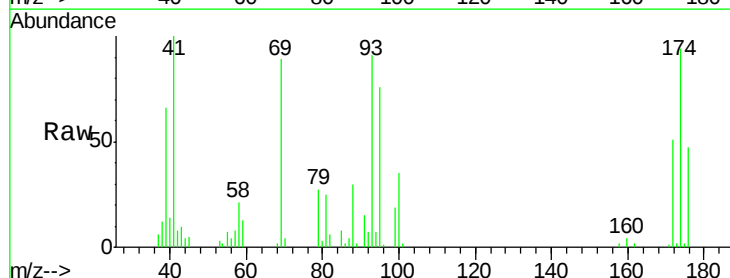
Manual Integrations
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#46
 Dibromomethane
 Concen: 19.154 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion: 93 Resp: 27097
 Ion Ratio Lower Upper
 93 100
 95 84.4 65.0 97.6
 174 102.1 82.3 123.5





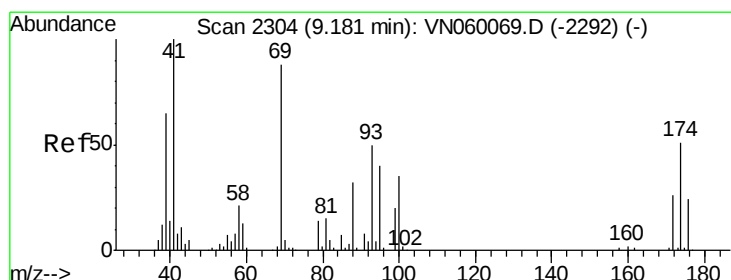
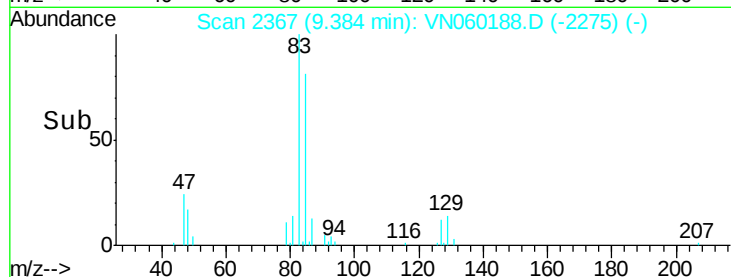
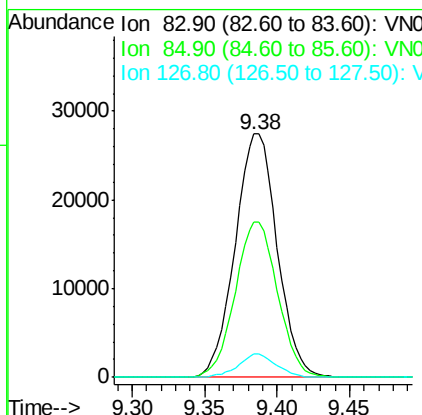
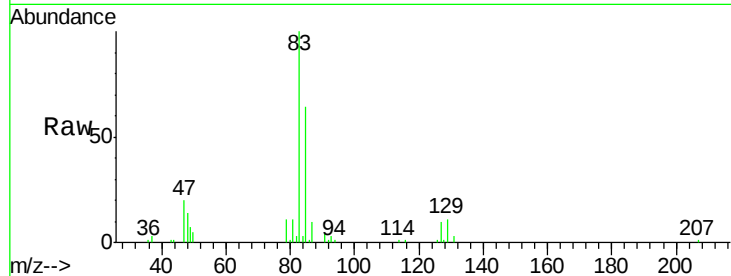
#47
Bromodichloromethane
Concen: 19.215 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.6	75.8
127	9.7	7.0	10.6

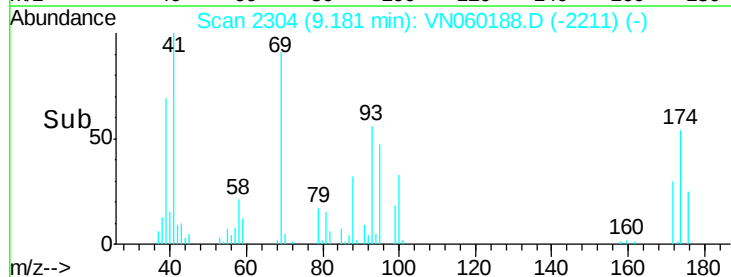
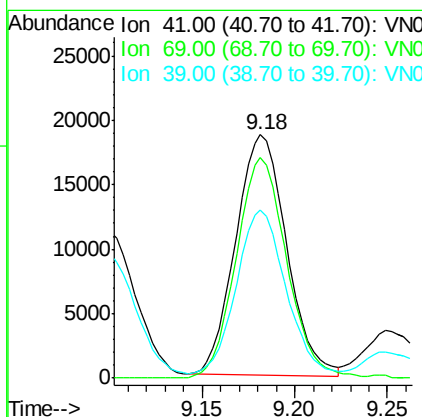
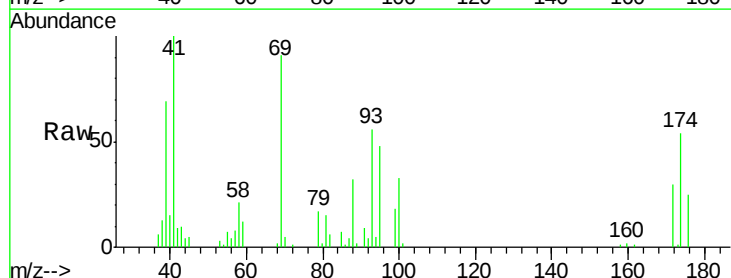
Manual Integrations
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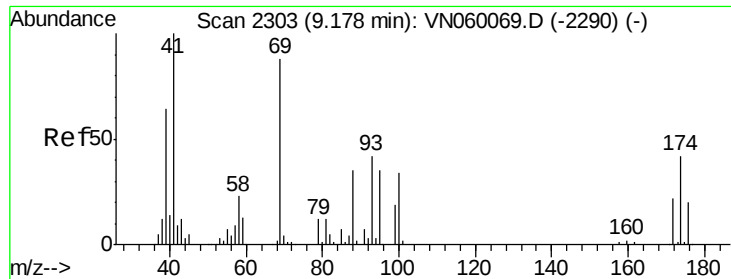
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#48
Methyl methacrylate
Concen: 18.897 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
41	100		
69	91.0	72.0	108.0
39	66.3	54.1	81.1





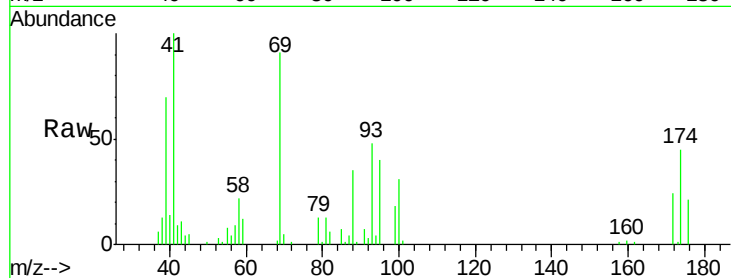
#49
1,4-Dioxane
Concen: 400.827 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.2	39.2
58	67.2	53.2	79.8

Manual Integrations
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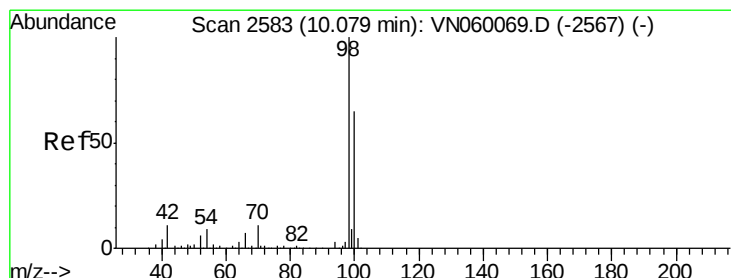
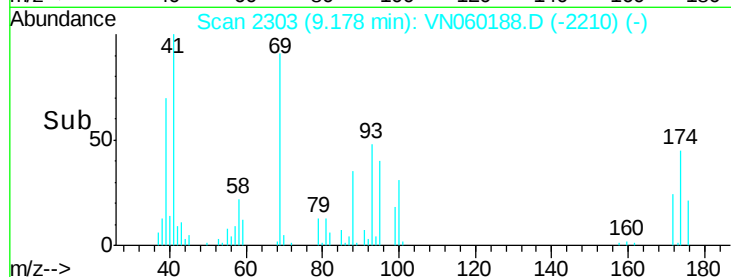
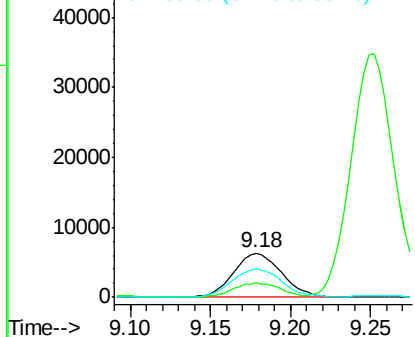
MMDadoda
2/24/2020 11:41:16 AM



Abundance Ion 88.00 (87.70 to 88.70): VN060069.D (-2290) (-)

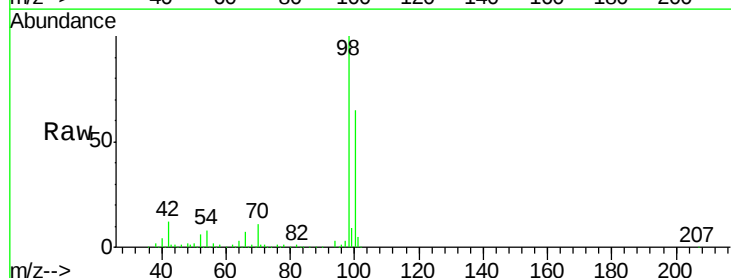
Ion 43.00 (42.70 to 43.70): VN060069.D (-2290) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2290) (-)



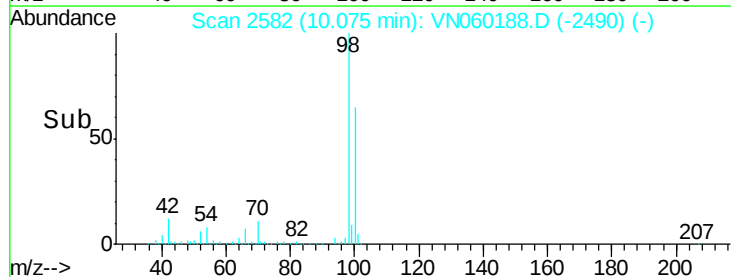
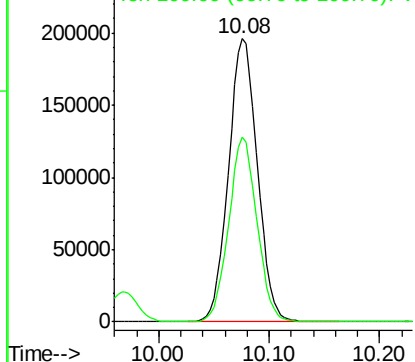
#50
Toluene-d8
Concen: 49.862 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

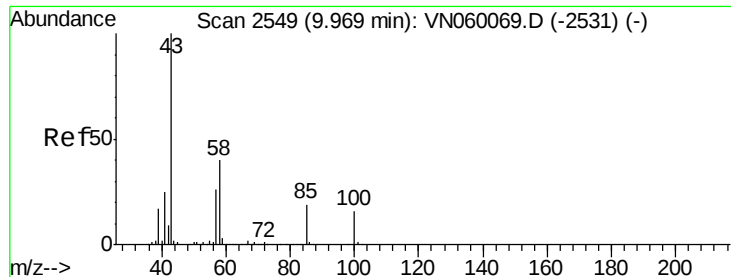
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060069.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060069.D (-2567) (-)





#51

4-Methyl-2-Pentanone

Concen: 101.089 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion: 43 Resp: 246412

Ion Ratio Lower Upper

43 100

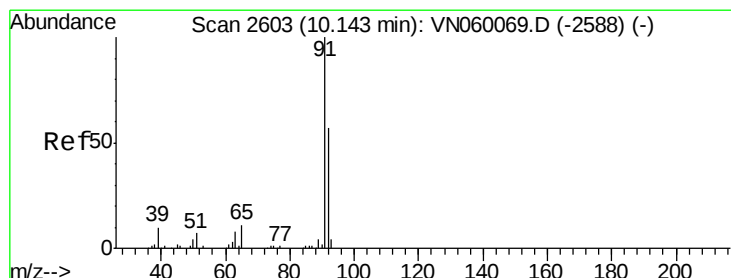
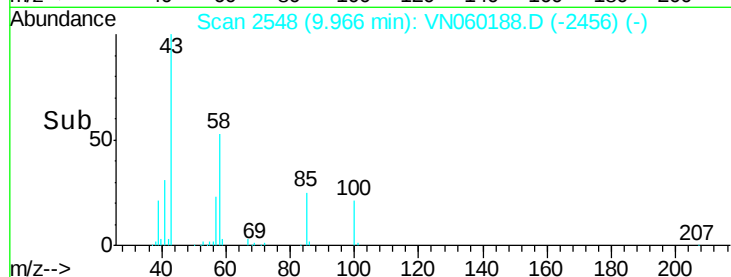
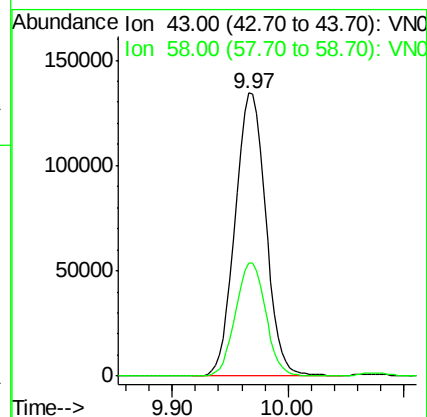
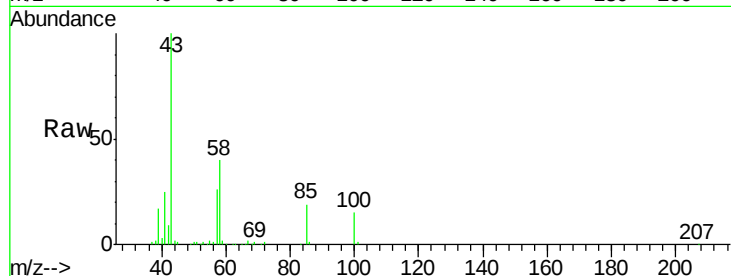
58 39.4 31.8 47.8

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#52

Toluene

Concen: 18.712 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060188.D

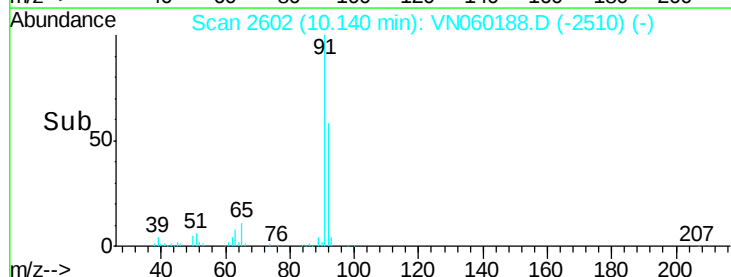
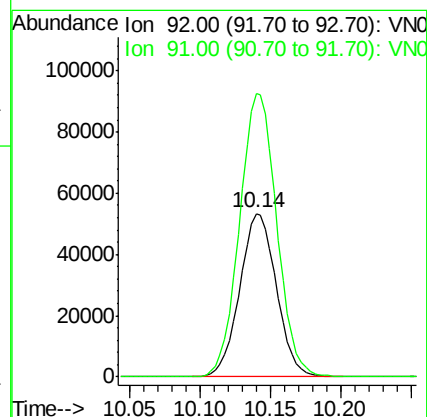
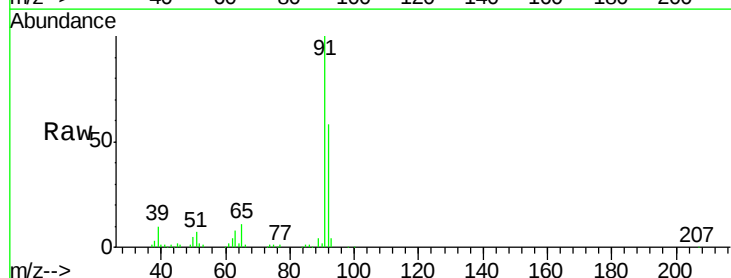
Acq: 21 Feb 2020 14:23

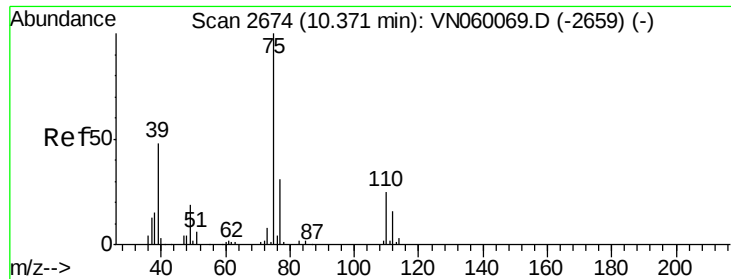
Tgt Ion: 92 Resp: 97027

Ion Ratio Lower Upper

92 100

91 176.3 140.9 211.3





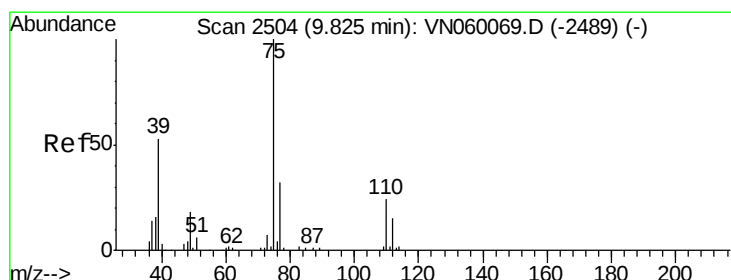
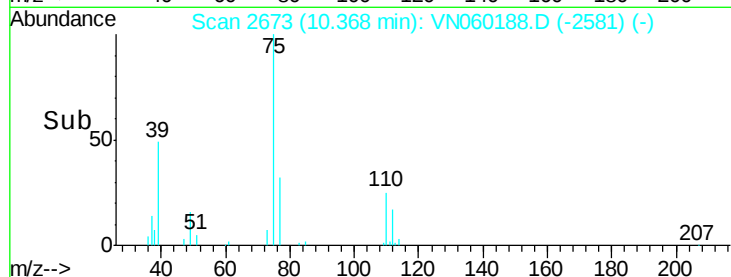
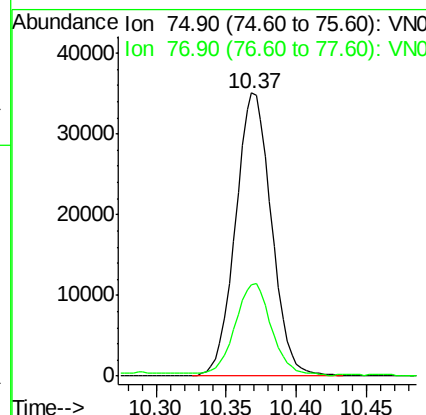
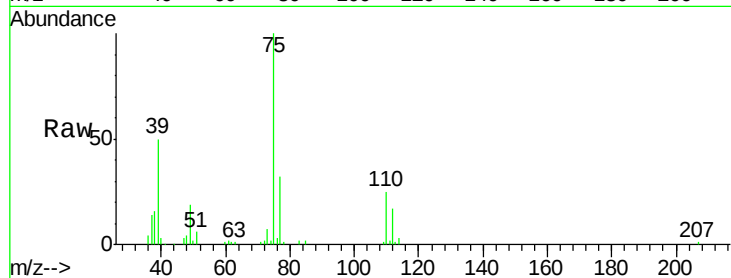
#53
t-1,3-Dichloropropene
Concen: 19.261 ug/l
RT: 10.37 min Scan# 2673
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion: 75 Resp: 62531
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.0

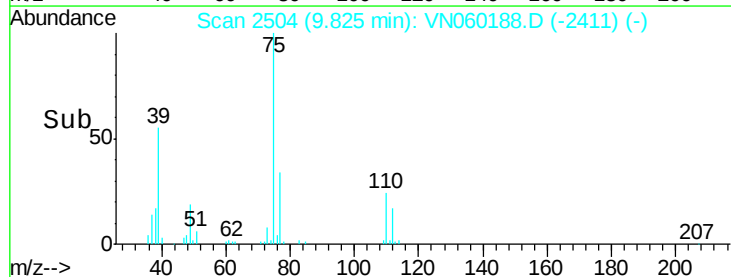
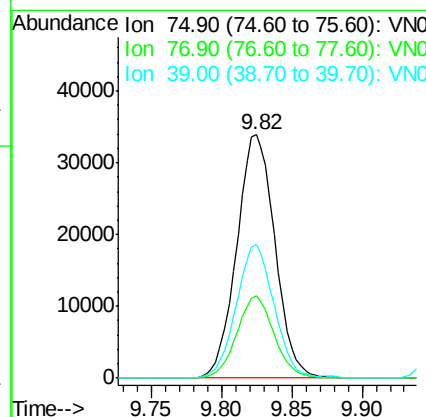
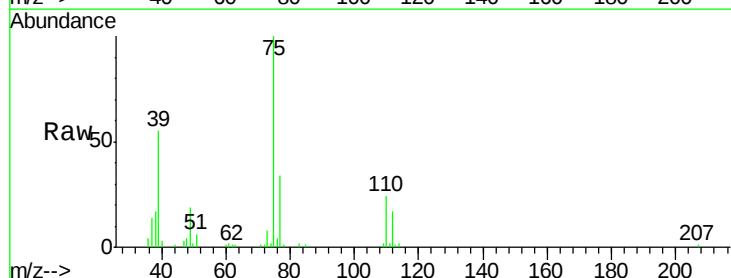
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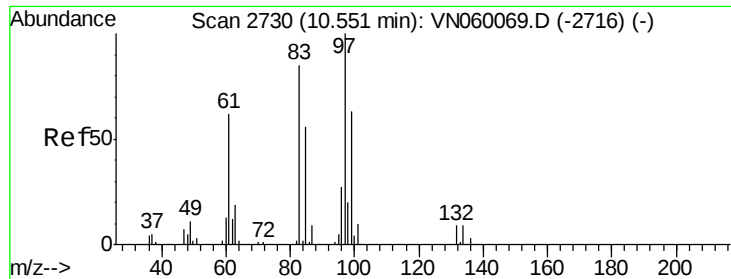
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2/24/2020 11:41:16 AM



#54
cis-1,3-Dichloropropene
Concen: 18.832 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion: 75 Resp: 64378
Ion Ratio Lower Upper
75 100
77 33.6 25.6 38.4
39 54.9 42.2 63.4





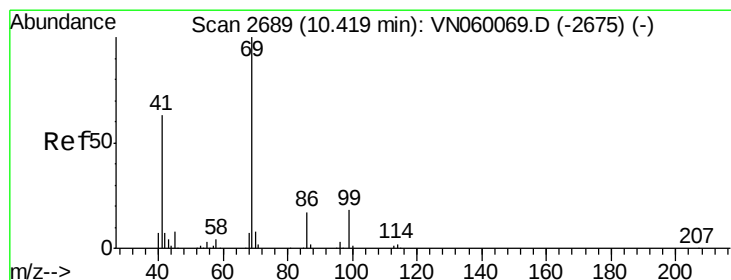
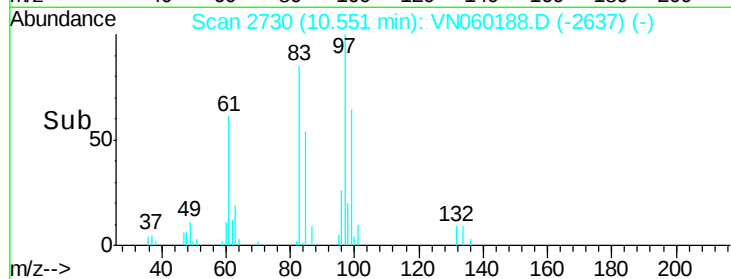
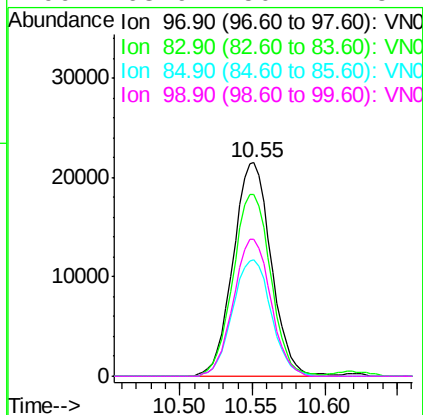
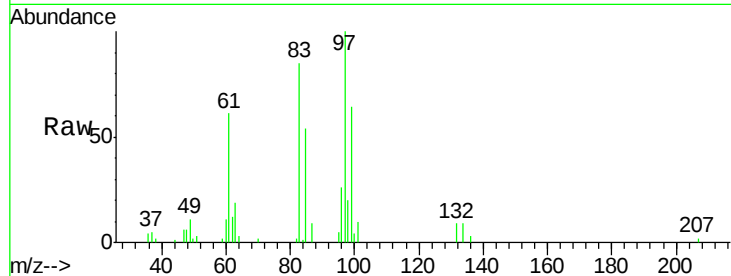
#55
 1,1,2-Trichloroethane
 Concen: 19.389 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		39222		
83	84.9	67.9	101.9		
85	54.4	44.6	67.0		
99	63.9	50.1	75.1		

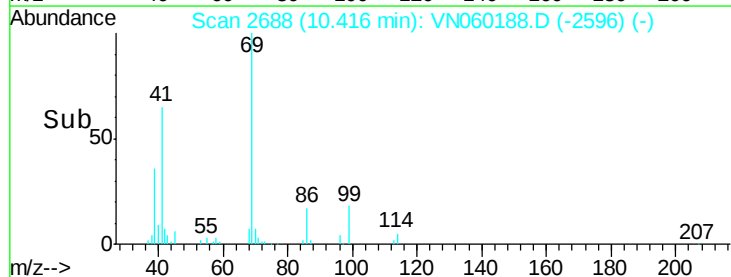
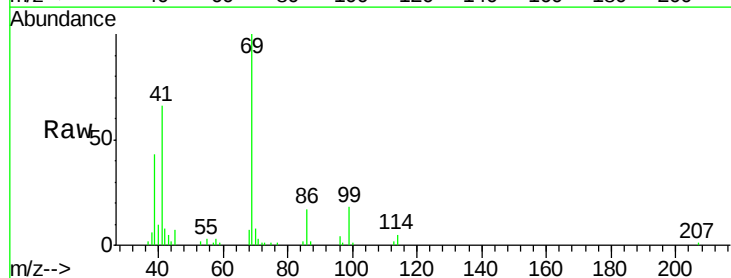
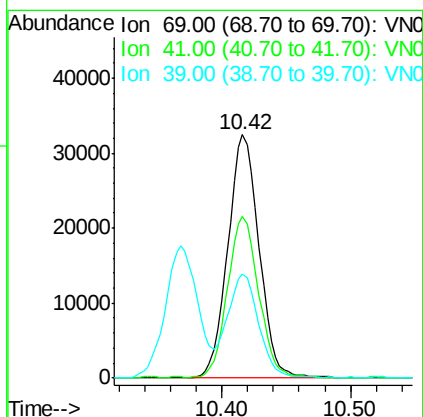
Manual Integrations
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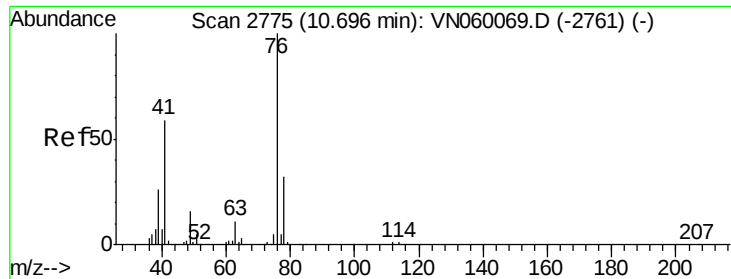
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#56
 Ethyl methacrylate
 Concen: 19.070 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		54571		
41	66.5	51.1	76.7		
39	43.2	33.8	50.8		





#57

1,3-Dichloropropane

Concen: 19.205 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion: 76 Resp: 64107

Ion Ratio Lower Upper

76 100

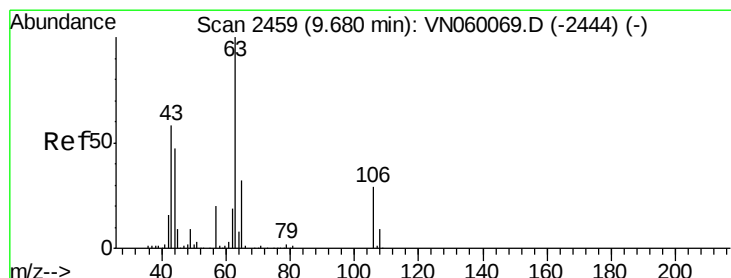
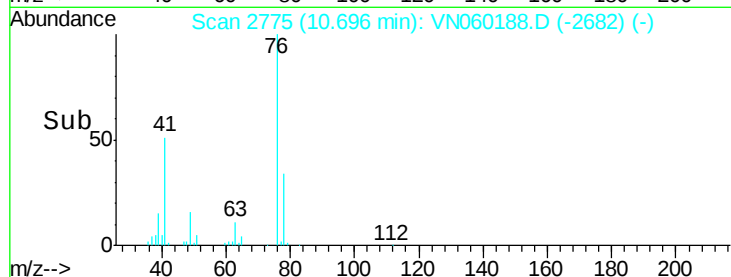
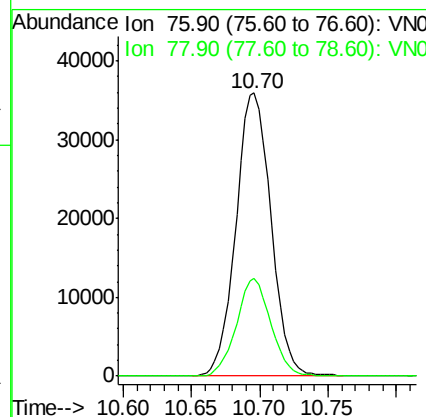
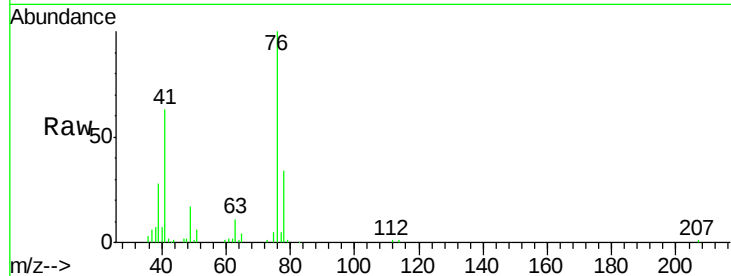
78 33.8 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 96.670 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VN060188.D

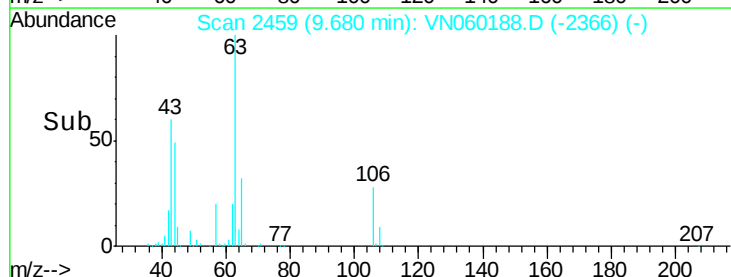
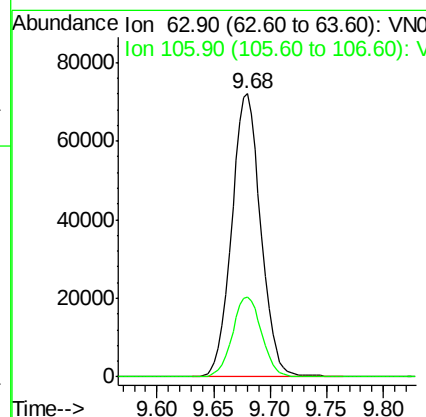
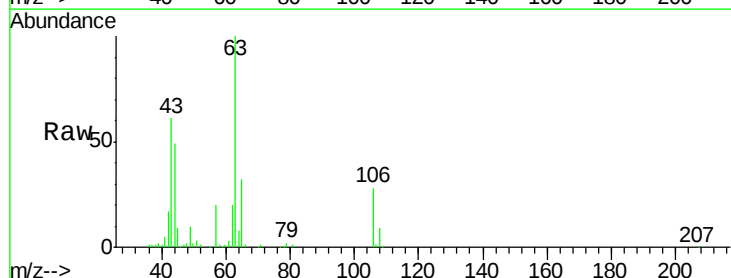
Acq: 21 Feb 2020 14:23

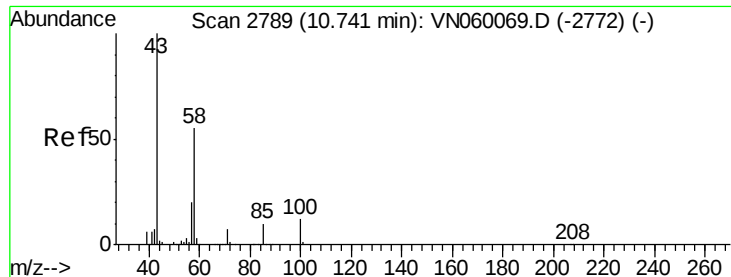
Tgt Ion: 63 Resp: 128877

Ion Ratio Lower Upper

63 100

106 28.3 22.9 34.3





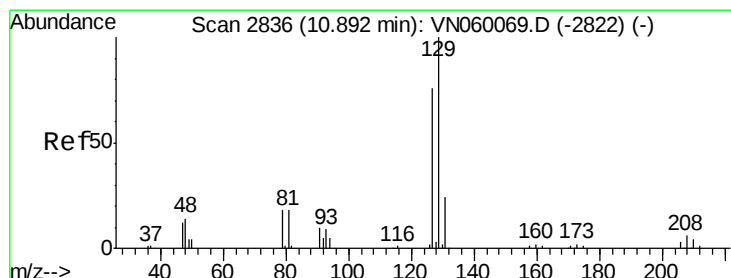
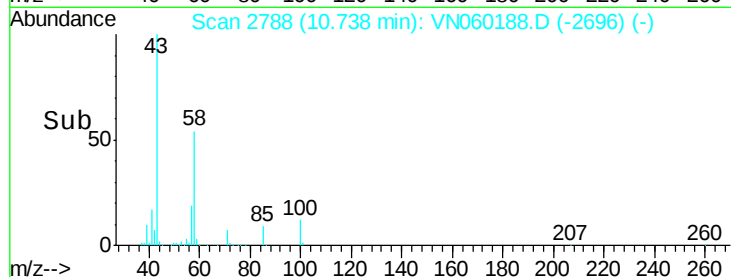
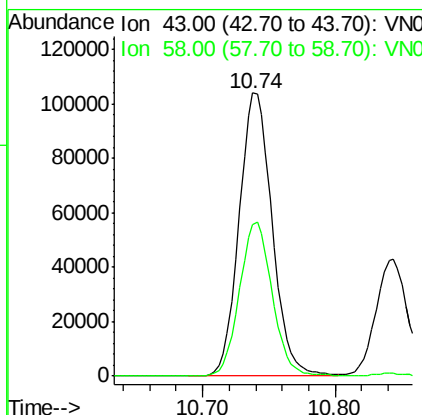
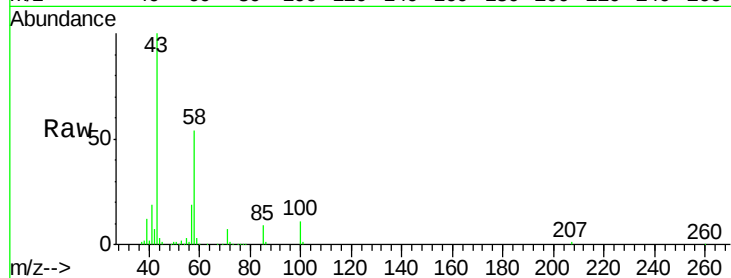
#59
2-Hexanone
Concen: 95.964 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion: 43 Resp: 180695
Ion Ratio Lower Upper
43 100
58 53.9 27.5 82.4

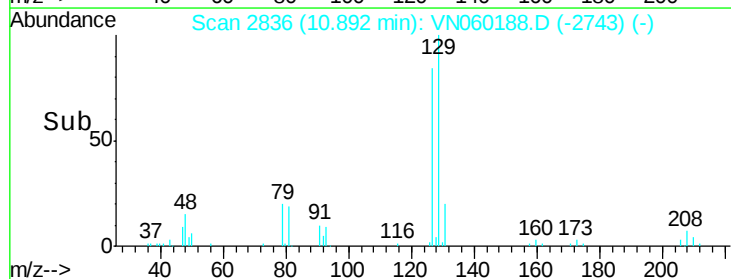
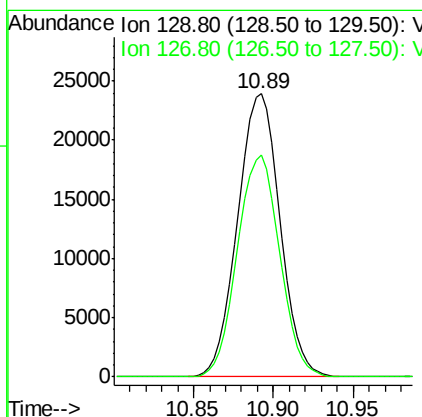
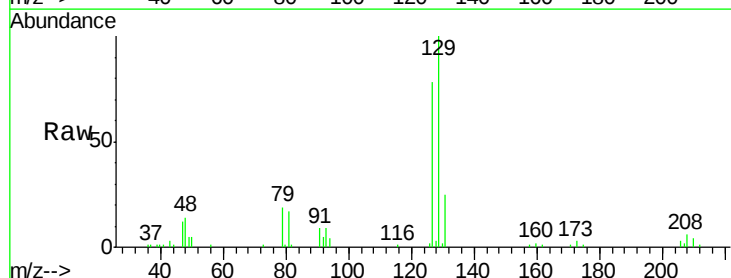
Manual Integrations
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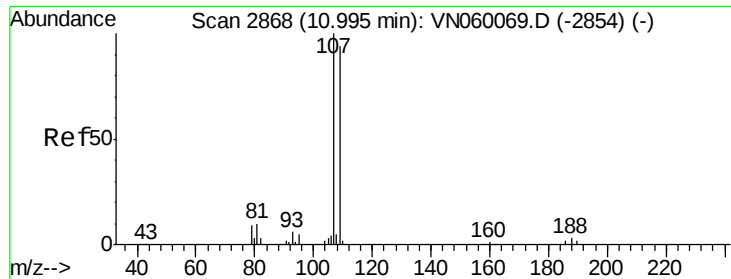
MMDadoda
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#60
Dibromochloromethane
Concen: 18.659 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion: 129 Resp: 43314
Ion Ratio Lower Upper
129 100
127 78.1 38.0 114.1





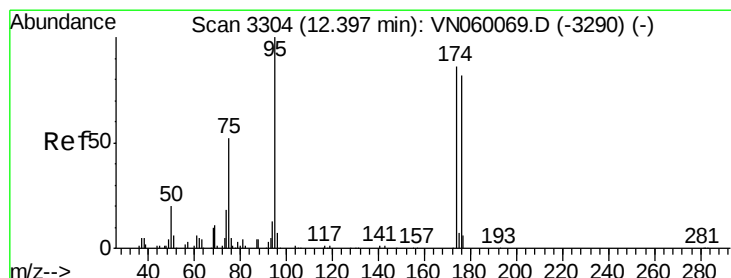
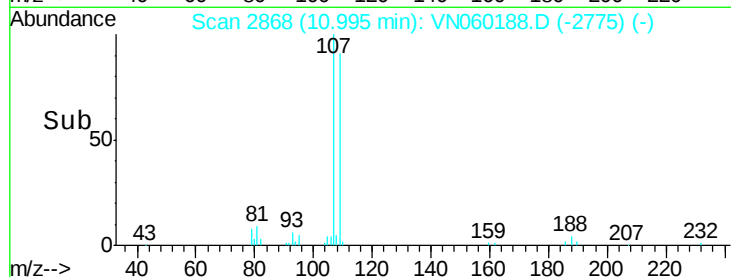
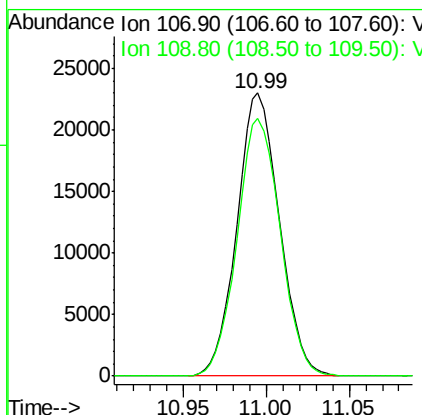
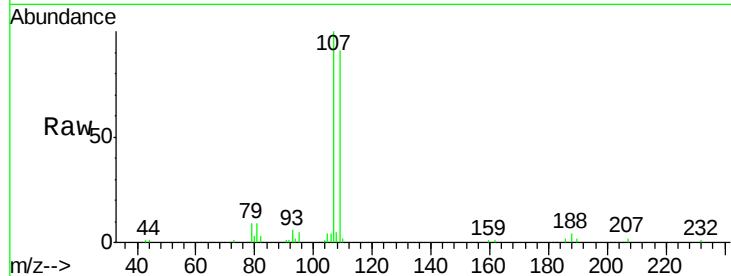
#61
 1,2-Dibromoethane
 Concen: 19.284 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0221WBSD01

Tot Ion: 107 Resp: 40893
 Ion Ratio Lower Upper
 107 100
 109 92.8 75.4 113.0

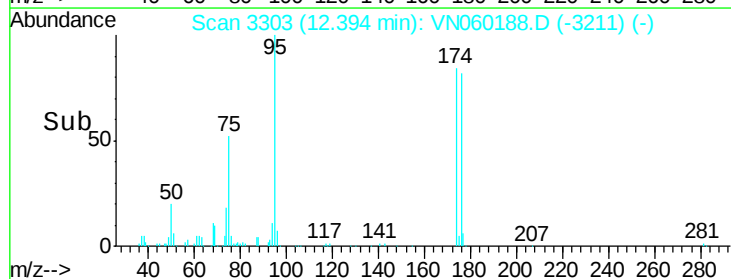
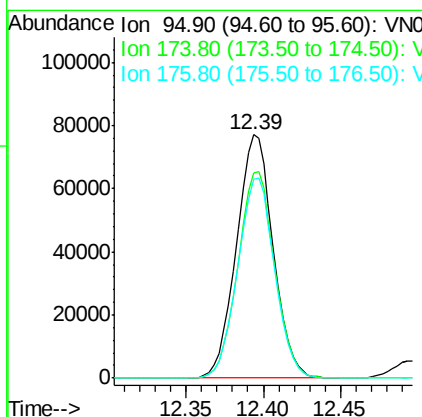
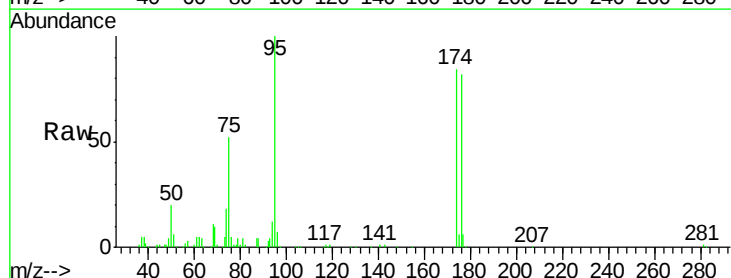
Manual Integrations
 APPROVED

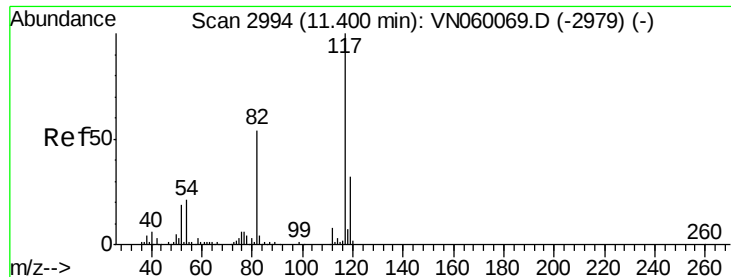
MMDadoda
 2/24/2020 11:41:16 AM



#62
 4-Bromofluorobenzene
 Concen: 48.357 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion: 95 Resp: 126584
 Ion Ratio Lower Upper
 95 100
 174 85.3 0.0 169.8
 176 83.1 0.0 164.8





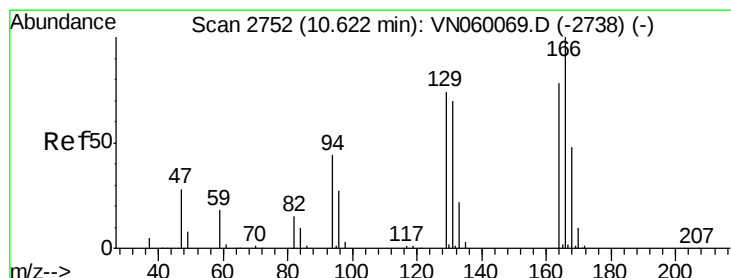
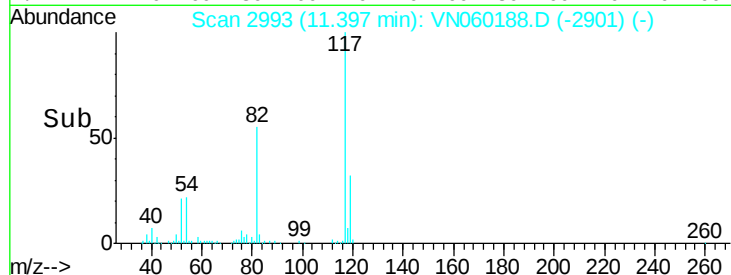
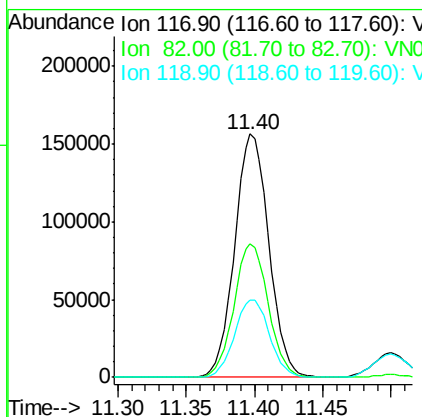
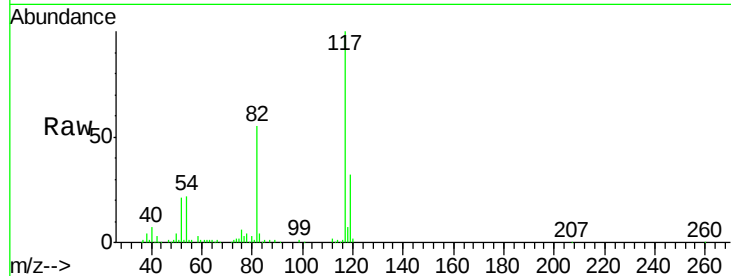
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	43.4	65.0
119	31.7	25.8	38.6

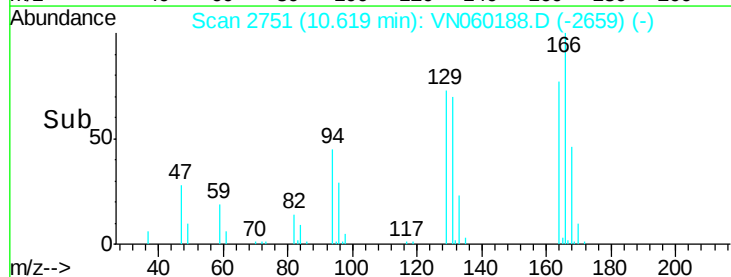
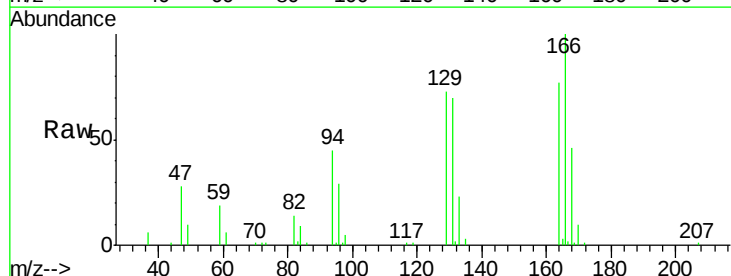
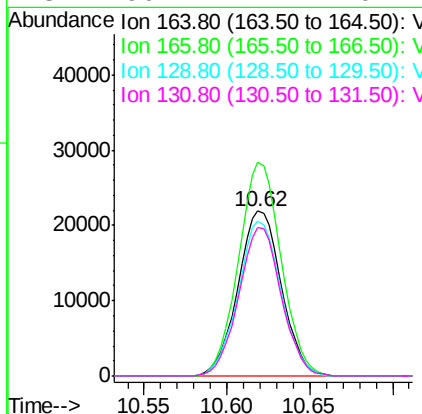
Manual Integrations
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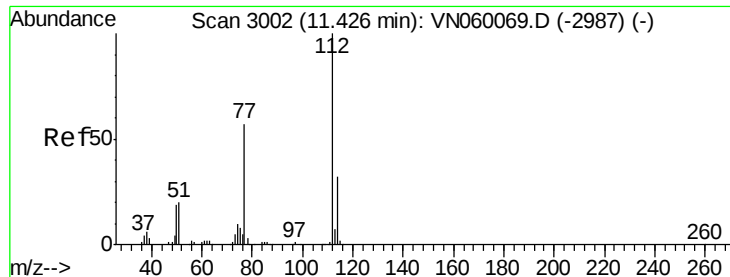
MMDadoda
2/24/2020 11:41:16 AM



#64
Tetrachloroethene
Concen: 19.214 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.8	101.9	152.9
129	94.3	75.4	113.0
131	90.2	71.4	107.2





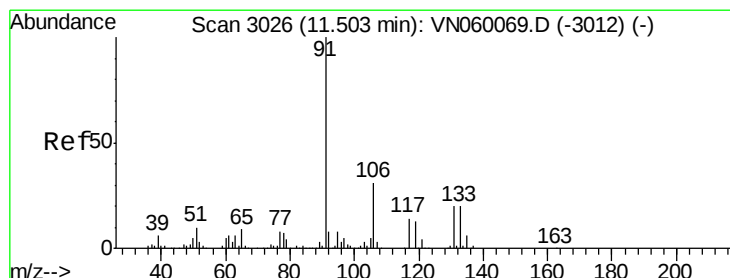
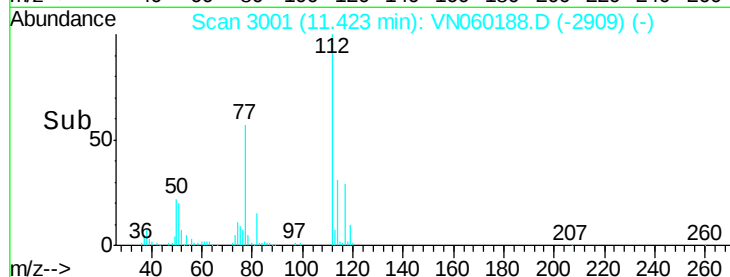
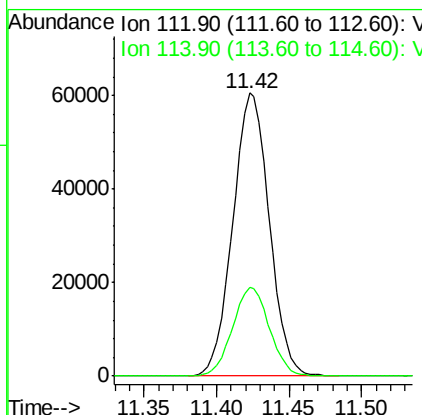
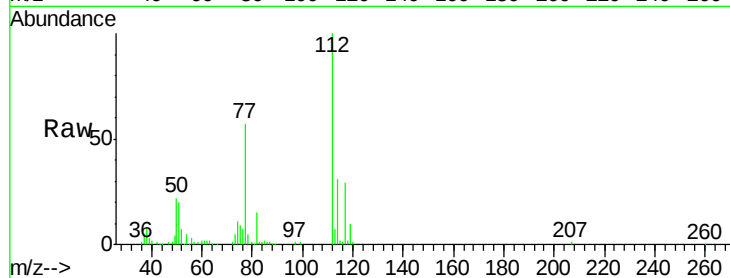
#65
Chlorobenzene
Concen: 18.999 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion:112 Resp: 105439
Ion Ratio Lower Upper
112 100
114 31.3 25.4 38.0

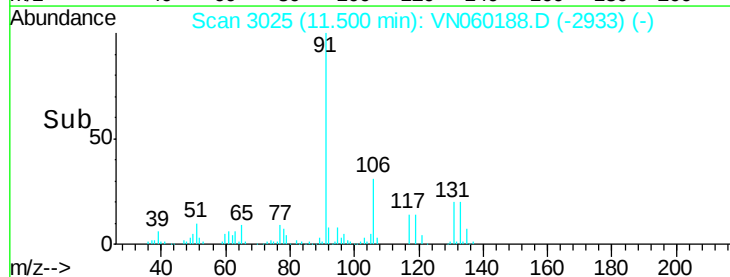
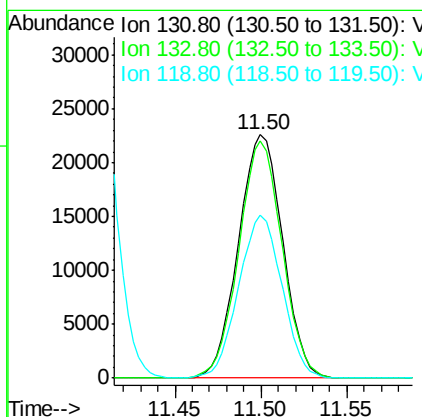
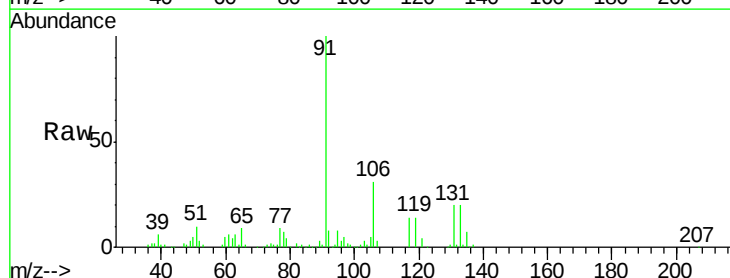
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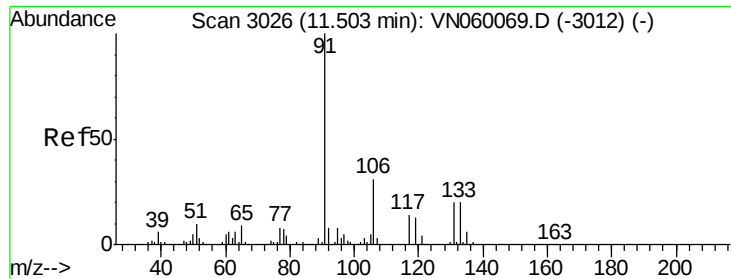
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.188 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion:131 Resp: 40285
Ion Ratio Lower Upper
131 100
133 95.3 47.9 143.7
119 65.7 32.6 97.7





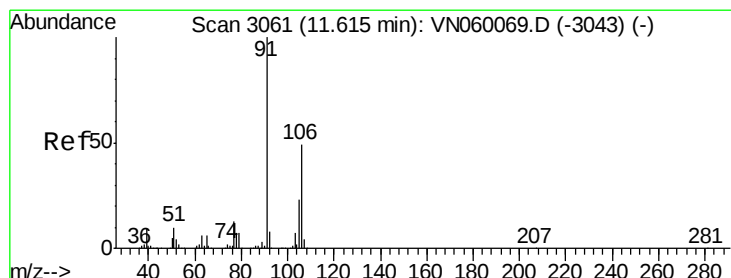
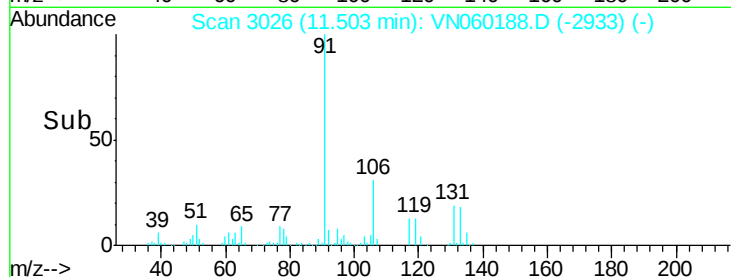
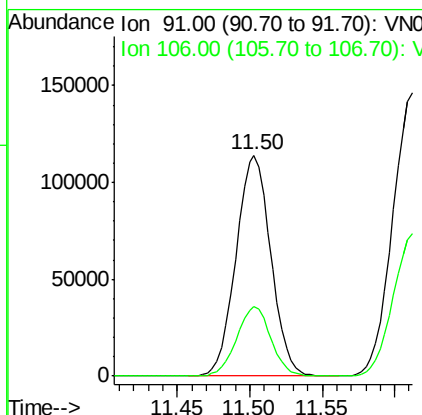
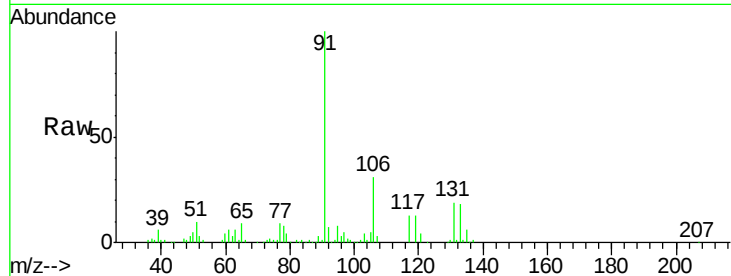
#67
Ethyl Benzene
Concen: 18.973 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampled :
VN0221WBSD01

Tot Ion: 91 Resp: 189914
Ion Ratio Lower Upper
91 100
106 31.3 25.1 37.7

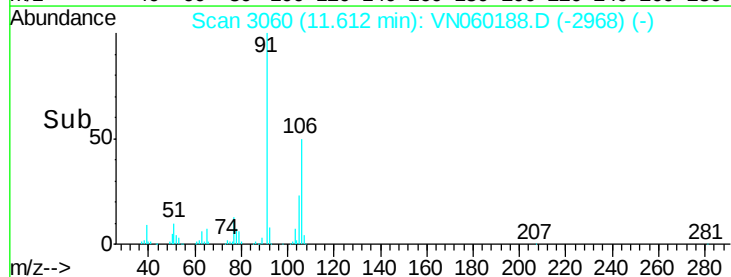
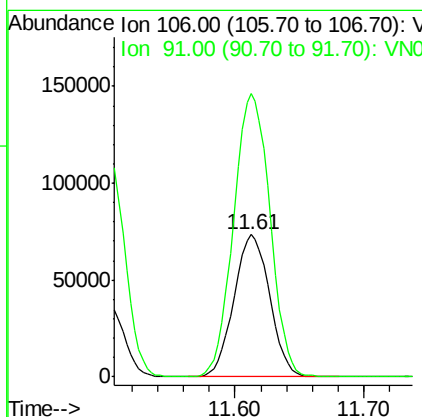
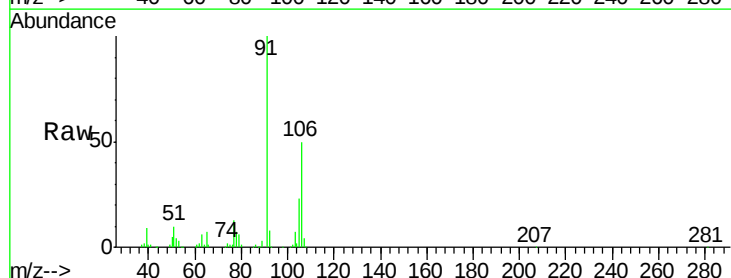
Manual Integrations
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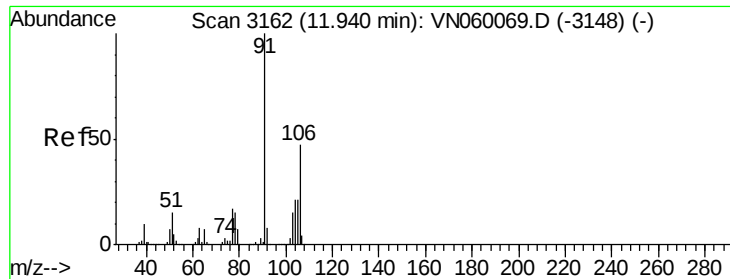
MMDadoda
2/24/2020 11:41:16 AM



#68
m/p-Xylenes
Concen: 37.592 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion: 106 Resp: 141222
Ion Ratio Lower Upper
106 100
91 203.0 162.7 244.1





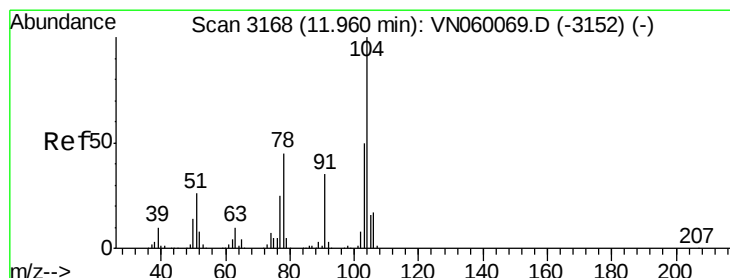
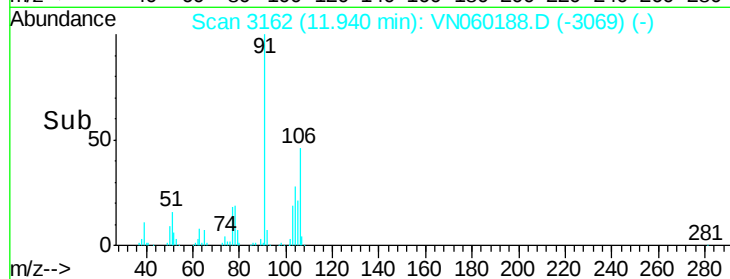
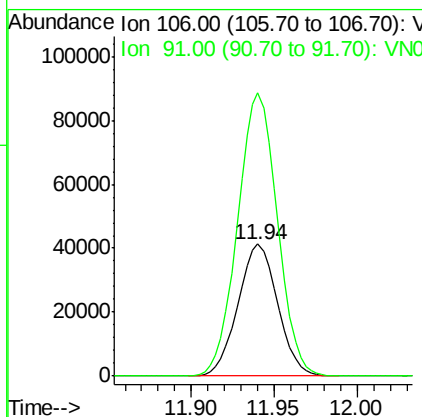
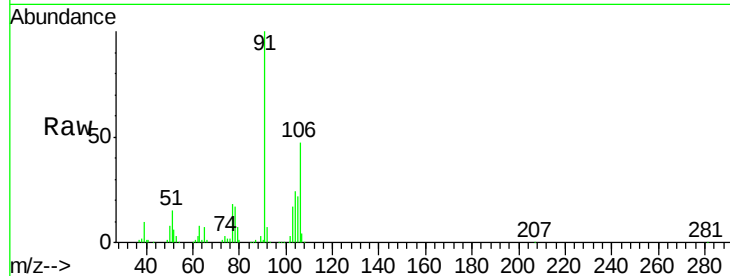
#69
o-Xylene
Concen: 18.995 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion:106 Resp: 68707
Ion Ratio Lower Upper
106 100
91 214.8 107.2 321.6

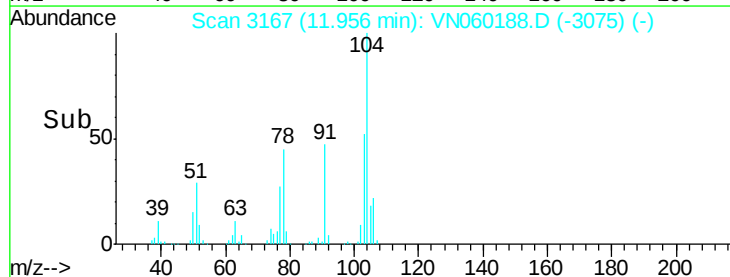
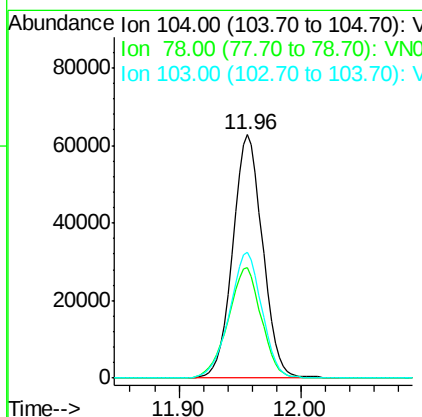
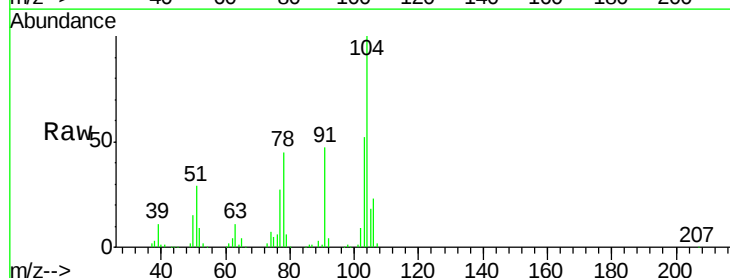
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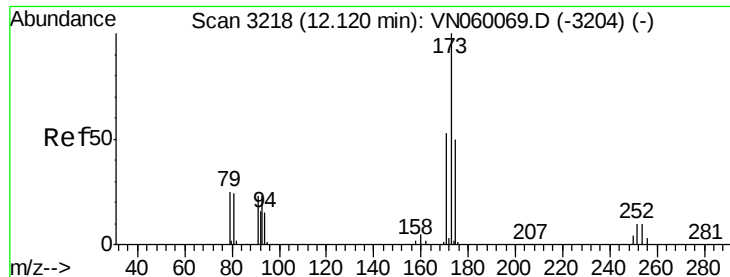
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#70
Styrene
Concen: 18.304 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion:104 Resp: 106767
Ion Ratio Lower Upper
104 100
78 50.6 40.2 60.2
103 56.2 44.3 66.5





#71

Bromoform

Concen: 18.885 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion:173 Resp: 31890

Ion Ratio Lower Upper

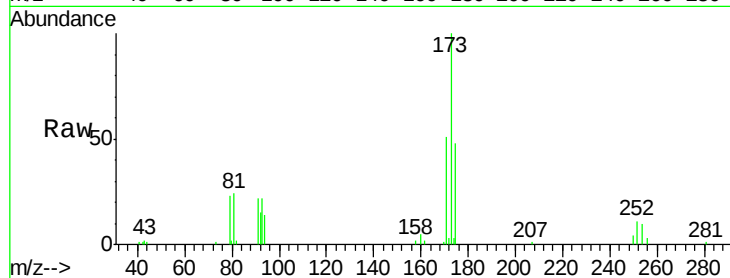
173 100

175 47.9 24.9 74.6

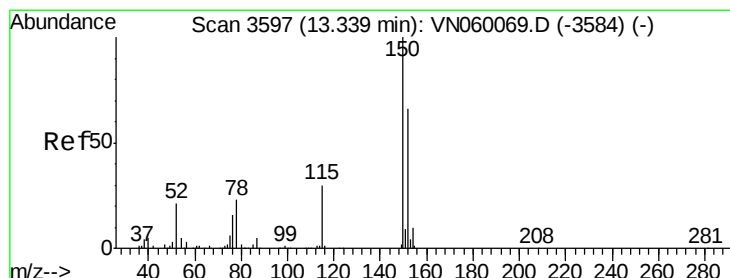
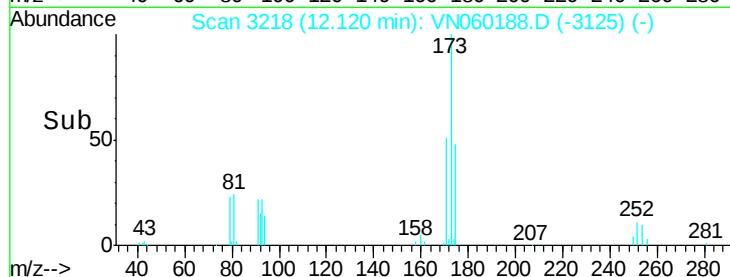
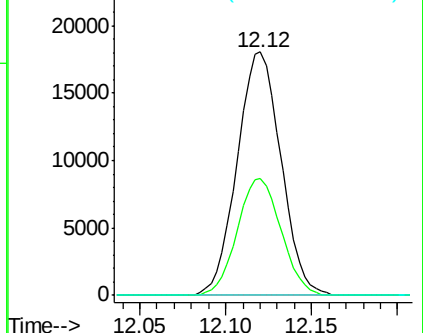
254 0.0 0.0 0.0

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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# 3596

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

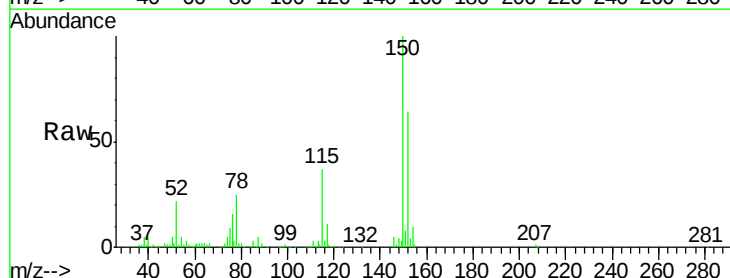
Tgt Ion:152 Resp: 130209

Ion Ratio Lower Upper

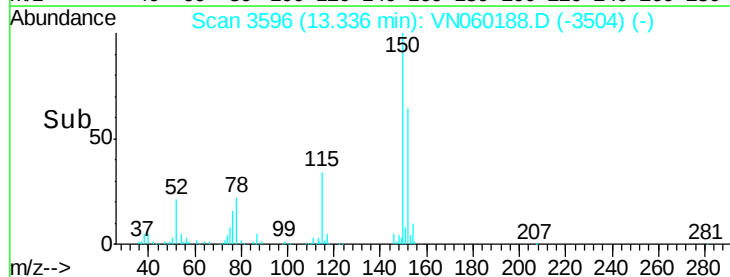
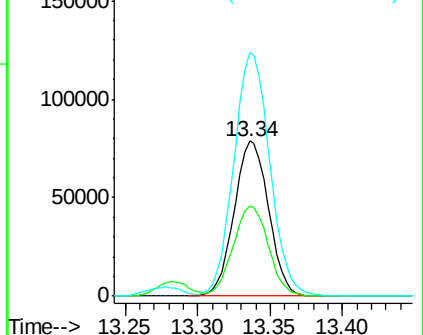
152 100

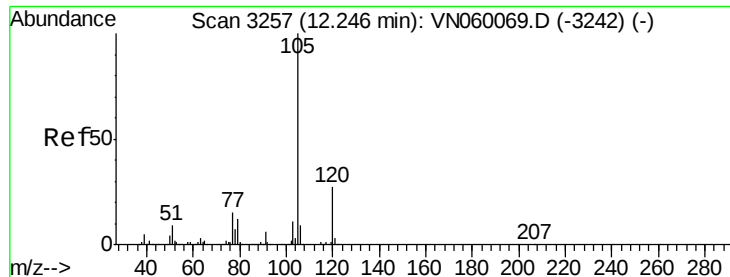
115 59.3 28.9 86.8

150 164.3 0.0 342.4



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





#73

Isopropylbenzene

Concen: 19.089 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion: 105 Resp: 185612

Ion Ratio Lower Upper

105 100

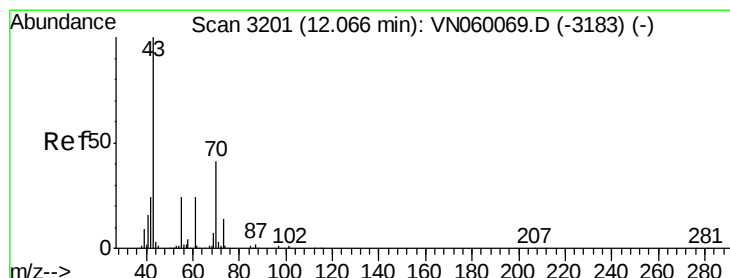
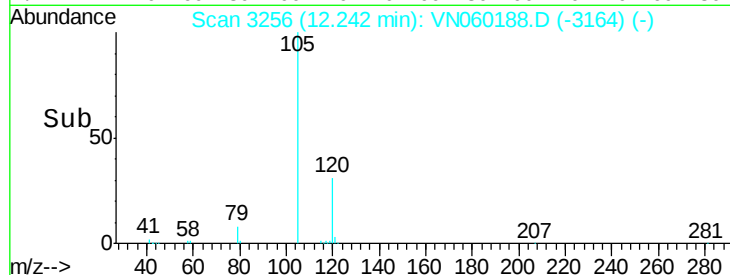
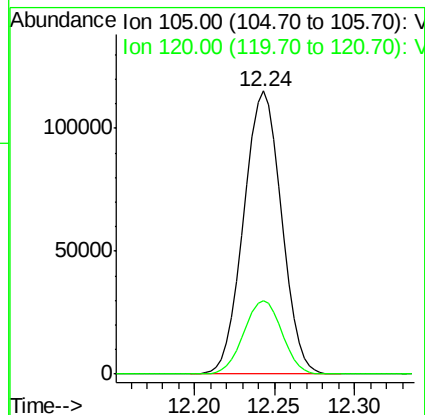
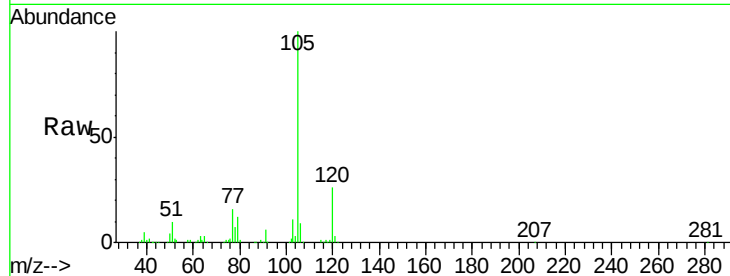
120 26.2 13.3 39.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 19.591 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion: 43 Resp: 68690

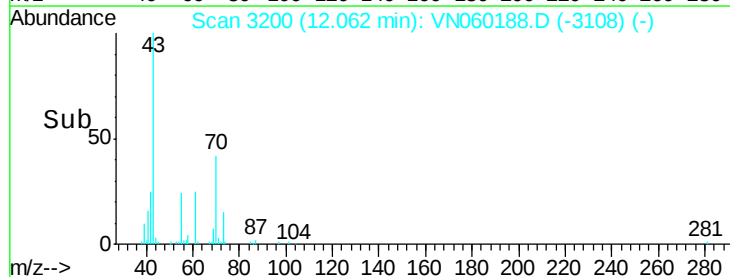
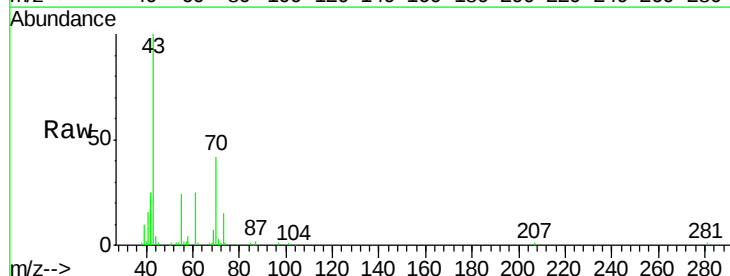
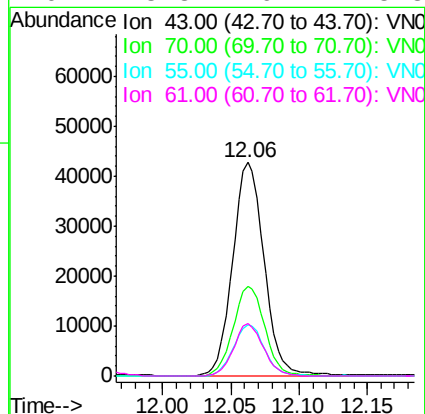
Ion Ratio Lower Upper

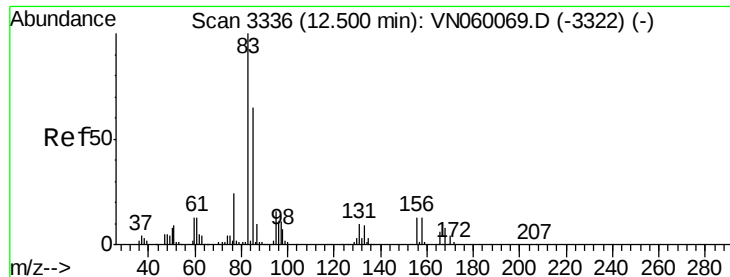
43 100

70 42.0 33.4 50.0

55 23.6 18.8 28.2

61 23.3 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 19.980 ug/l

RT: 12.50 min Scan# 3335

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

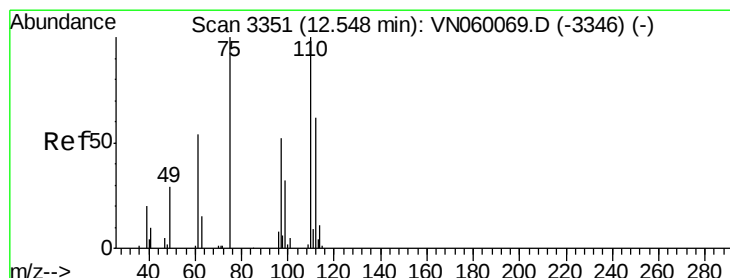
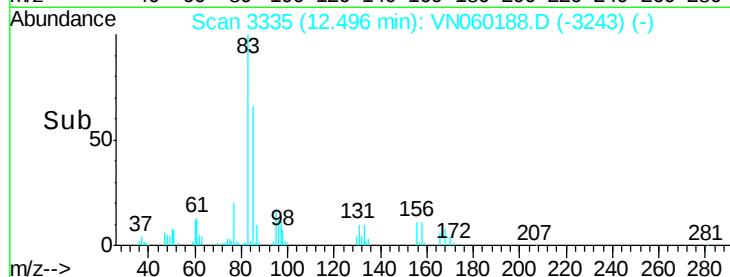
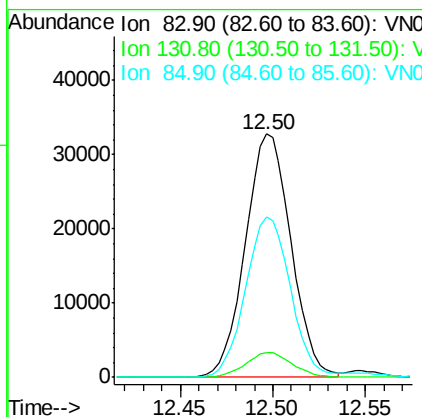
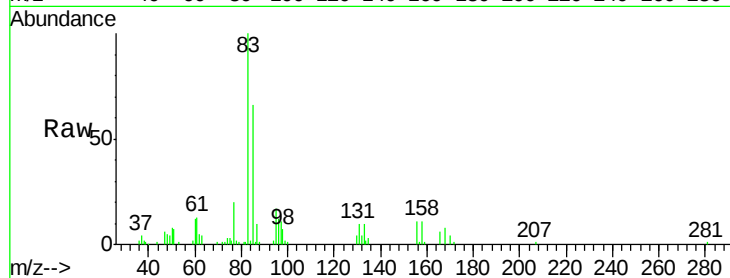
ClientSampleId :

VN0221WBSD01

Tot Ion:	83	Resp:	55919
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.2	15.6
85	64.8	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.112 ug/l m

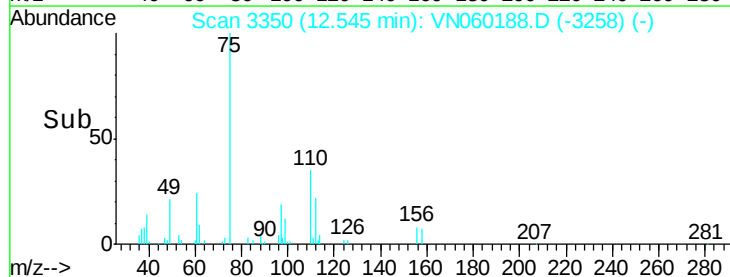
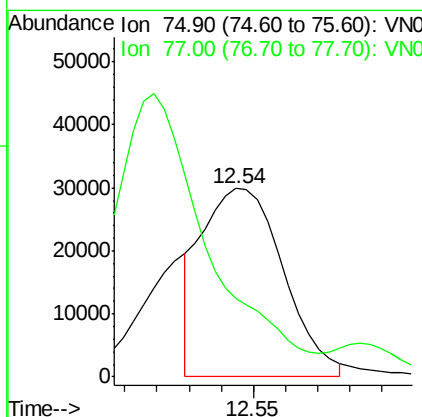
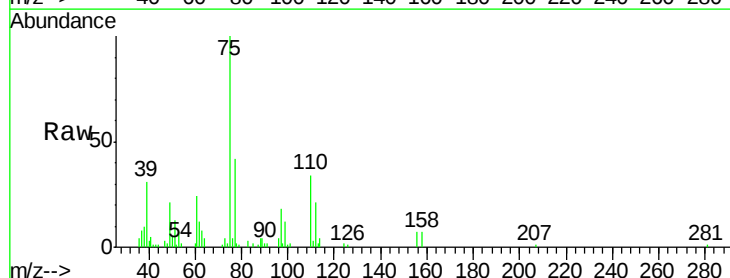
RT: 12.54 min Scan# 3350

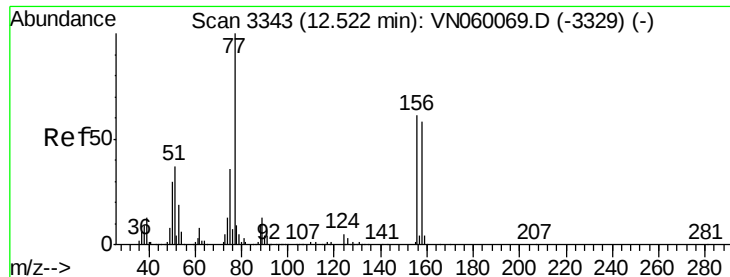
Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	75	Resp:	52594
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.302 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

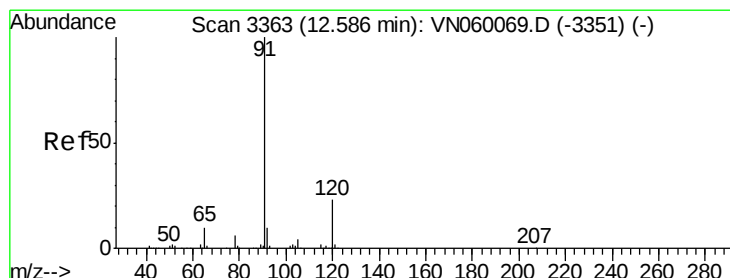
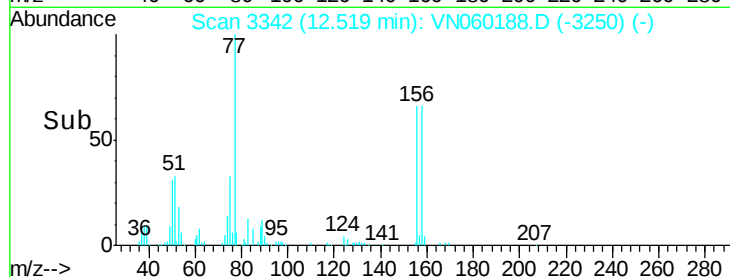
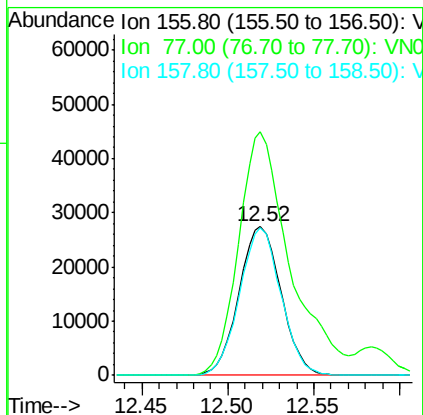
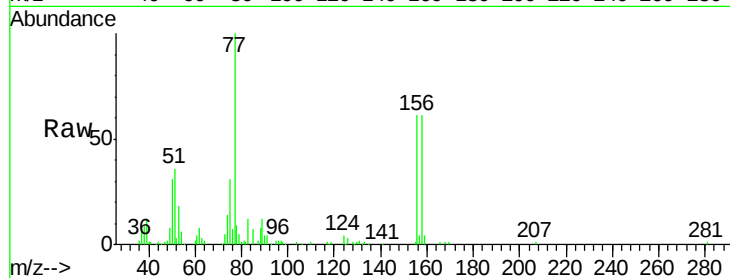
ClientSampleId :

VN0221WBSD01

Tot Ion:	156	Resp:	46577
Ion Ratio	Lower	Upper	
156	100		
77	200.8	98.7	296.1
158	97.3	48.1	144.4

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#78

n-propylbenzene

Concen: 18.730 ug/l

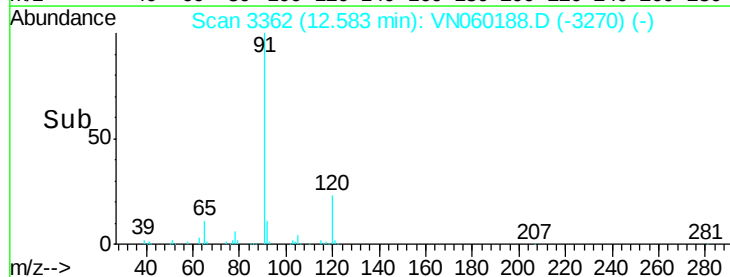
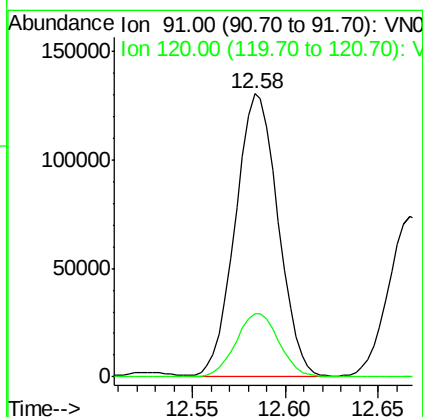
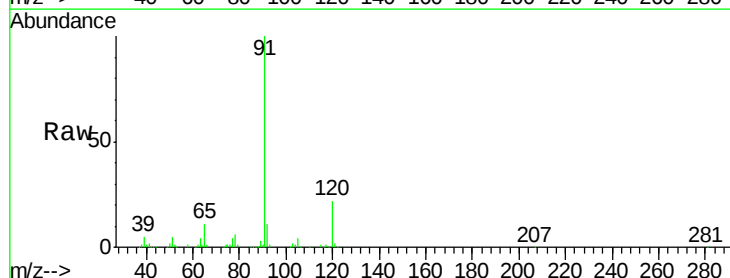
RT: 12.58 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	91	Resp:	207490
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.5	34.5





#79

2-Chlorotoluene

Concen: 18.838 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion: 91 Resp: 122661

Ion Ratio Lower Upper

91 100

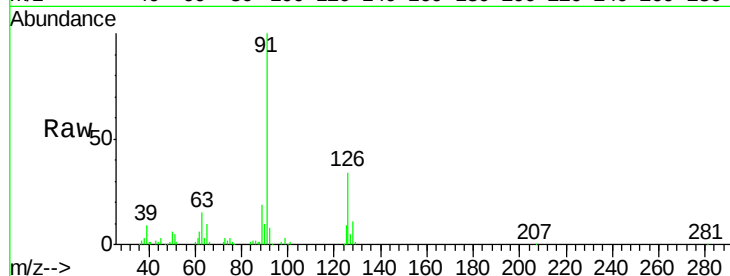
126 34.4 17.4 52.2

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Abundance Ion 91.00 (90.70 to 91.70): VN060069.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN060069.D (-3376) (-)

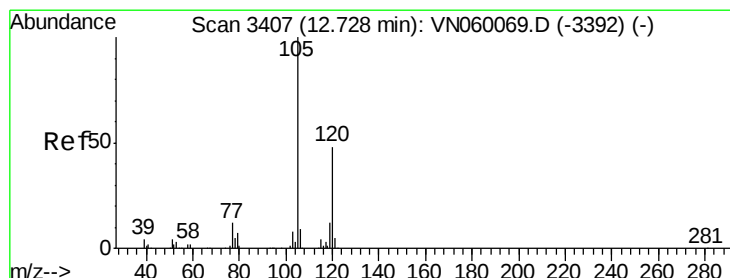
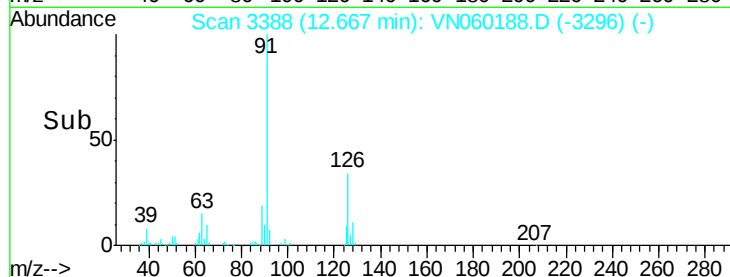
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.012 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060188.D

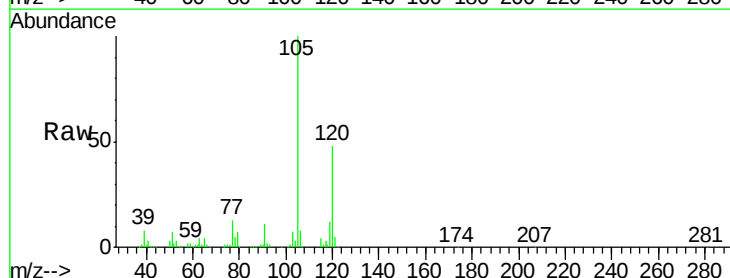
Acq: 21 Feb 2020 14:23

Tgt Ion: 105 Resp: 153699

Ion Ratio Lower Upper

105 100

120 48.2 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VN060069.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN060069.D (-3392) (-)

100000

80000

60000

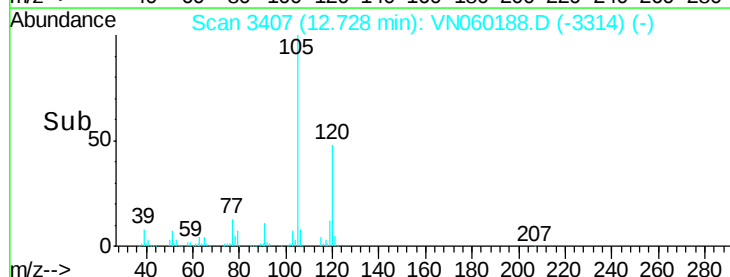
40000

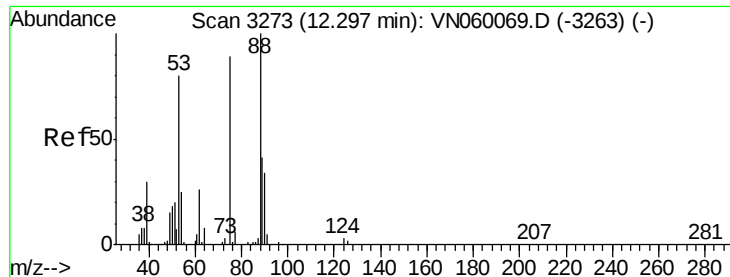
20000

0

12.65 12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.242 ug/l

RT: 12.29 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

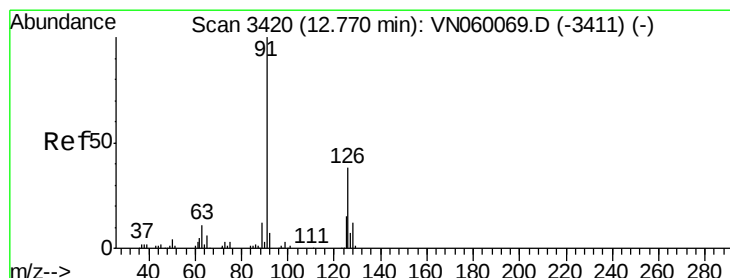
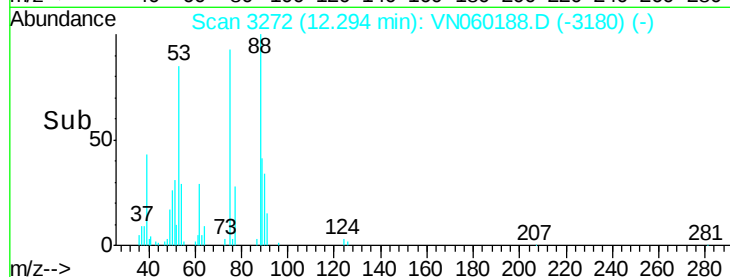
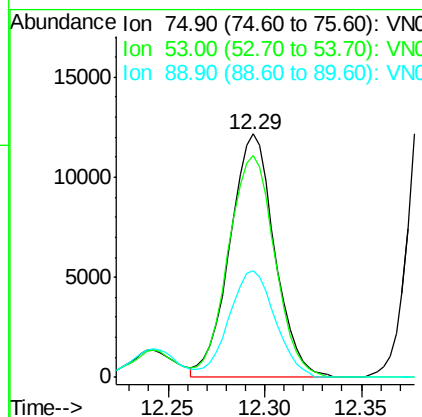
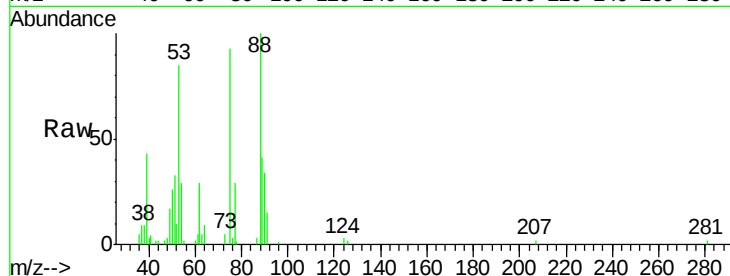
ClientSampleId :

VN0221WBSD01

Tot Ion:	75	Resp:	19577
Ion Ratio	Lower	Upper	
75	100		
53	94.6	73.9	110.9
89	45.0	37.0	55.4

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#82

4-Chlorotoluene

Concen: 18.844 ug/l

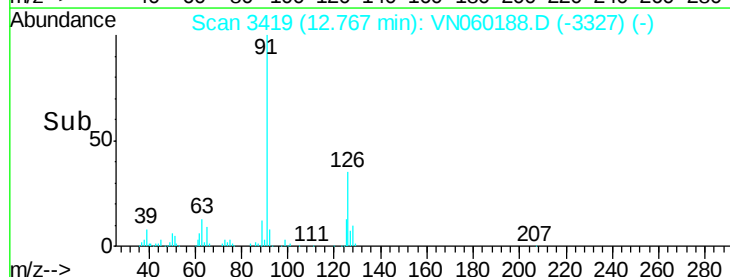
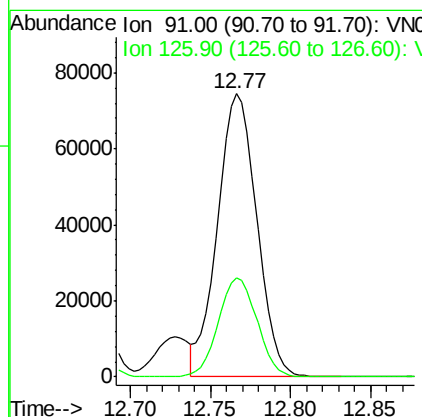
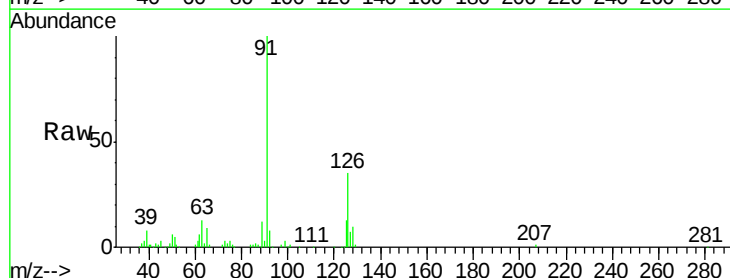
RT: 12.77 min Scan# 3419

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Tgt Ion:	91	Resp:	125885
Ion Ratio	Lower	Upper	
91	100		
126	34.4	17.1	51.3





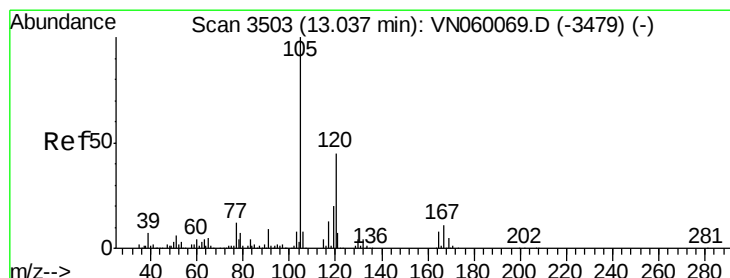
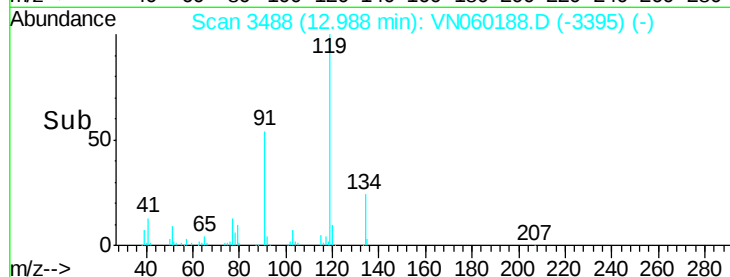
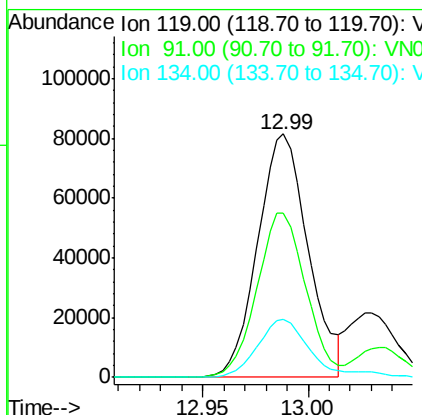
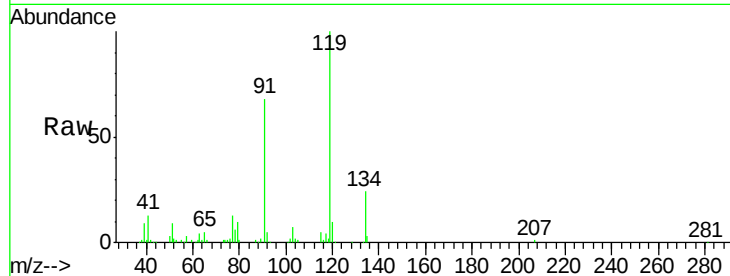
#83
tert-Butylbenzene
Concen: 18.972 ug/l
RT: 12.99 min Scan# 3488
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.7	98.1
134	25.2	12.9	38.7

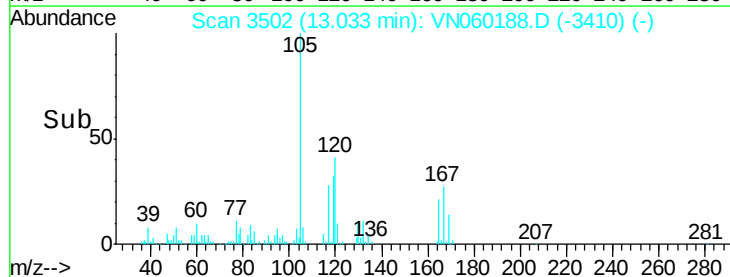
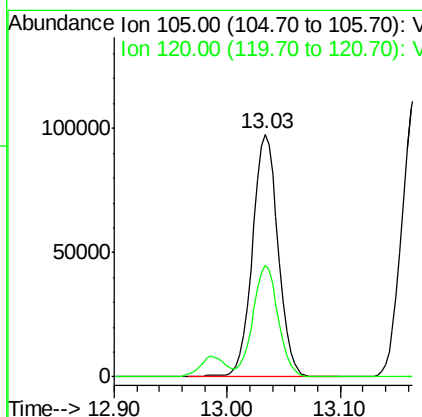
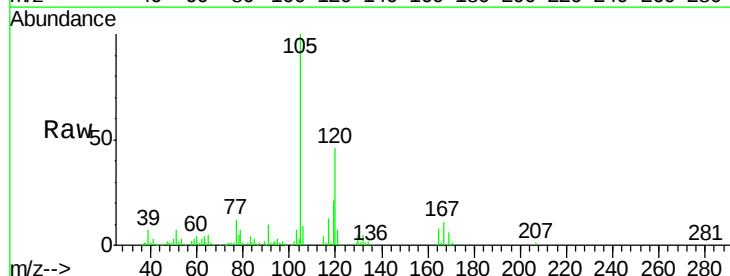
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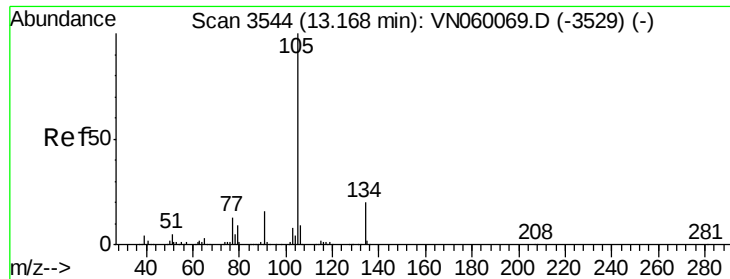
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#84
1,2,4-Trimethylbenzene
Concen: 19.273 ug/l
RT: 13.03 min Scan# 3502
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.4	67.3





#85

sec-Butylbenzene

Concen: 18.708 ug/l

RT: 13.17 min Scan# 3543

Delta R.T. -0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

VN0221WBSD01

Tot Ion:105 Resp: 177193

Ion Ratio Lower Upper

105 100

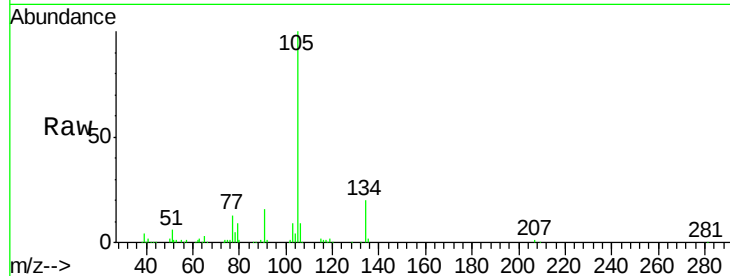
134 19.9 9.9 29.7

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

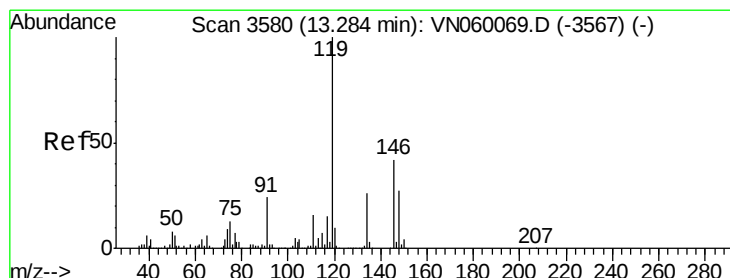
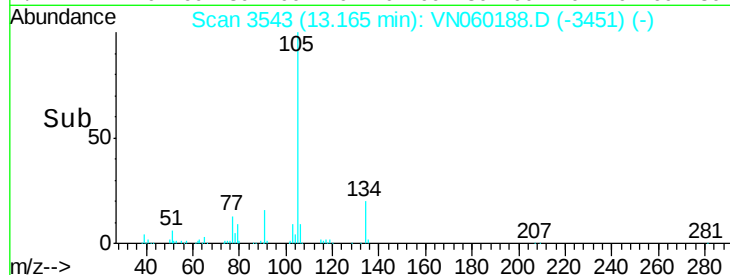
13.17

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 18.711 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN060188.D

Acq: 21 Feb 2020 14:23

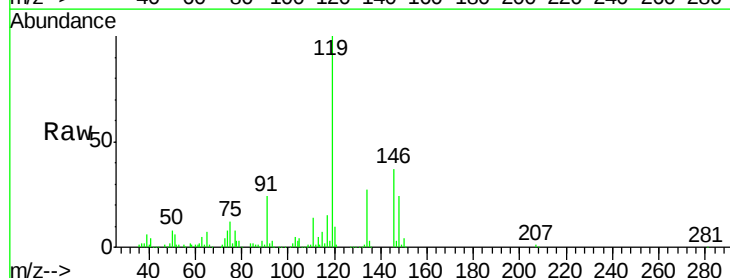
Tgt Ion:119 Resp: 160565

Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.8

91 23.9 11.9 35.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

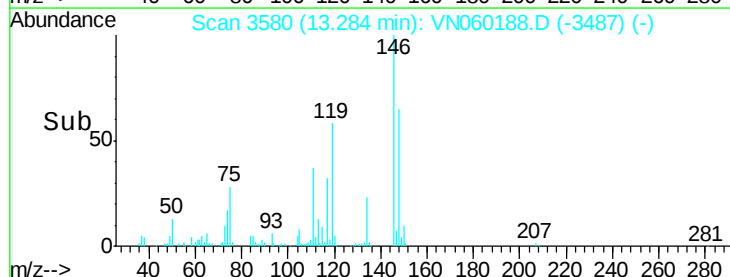
13.28

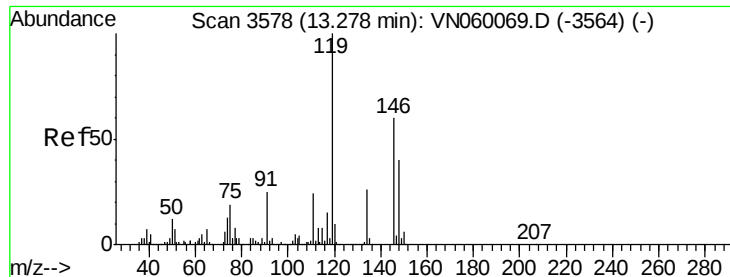
100000

50000

0

Time-->





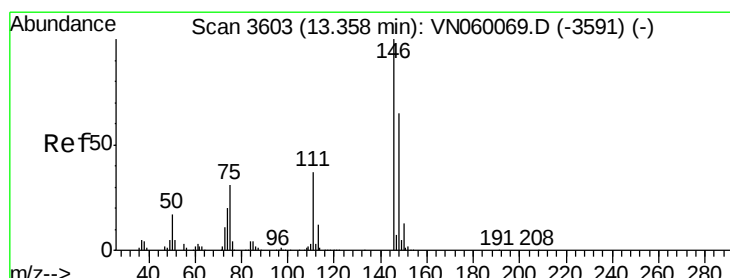
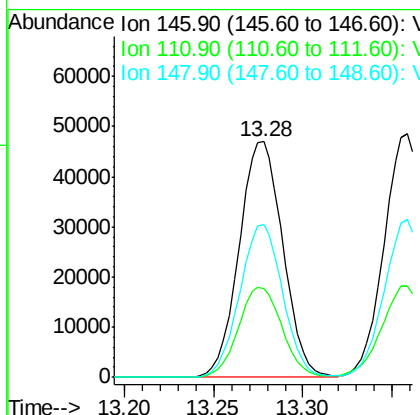
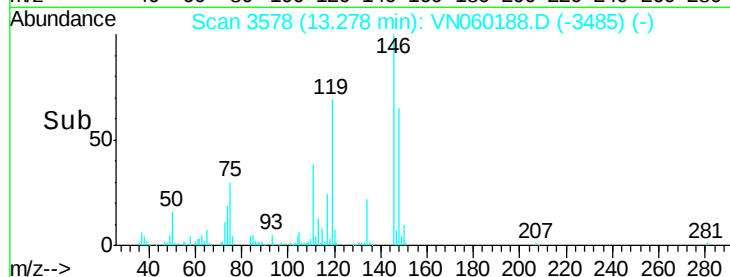
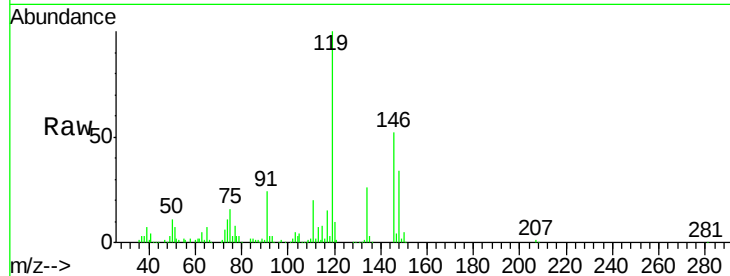
#87
 1,3-Dichlorobenzene
 Concen: 18.872 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.8	59.3
148	63.8	32.0	96.2

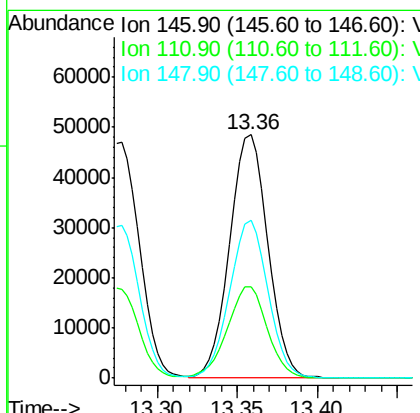
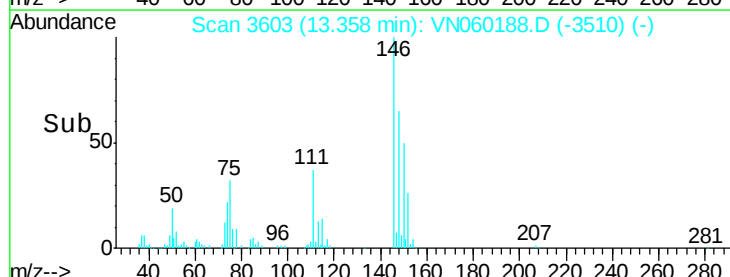
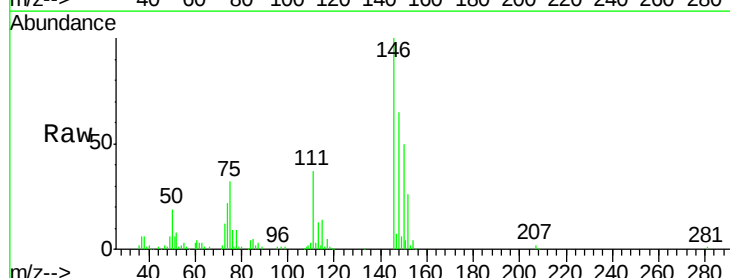
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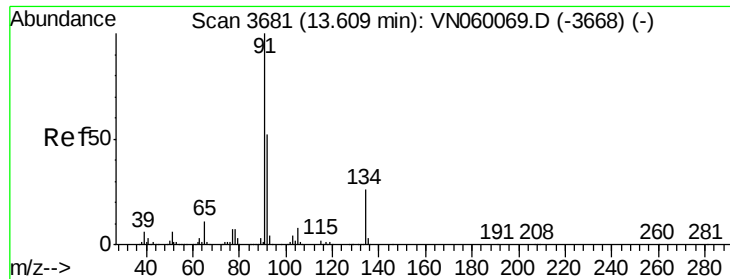
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#88
 1,4-Dichlorobenzene
 Concen: 18.517 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	18.9	56.5
148	65.0	32.0	96.0





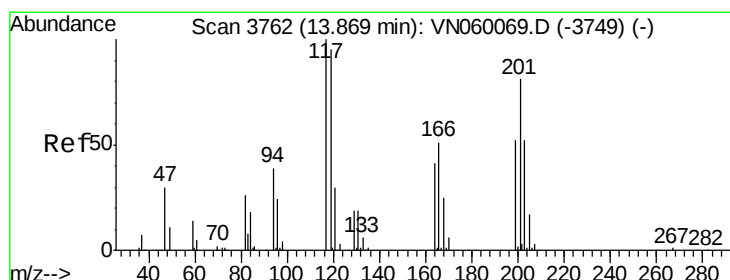
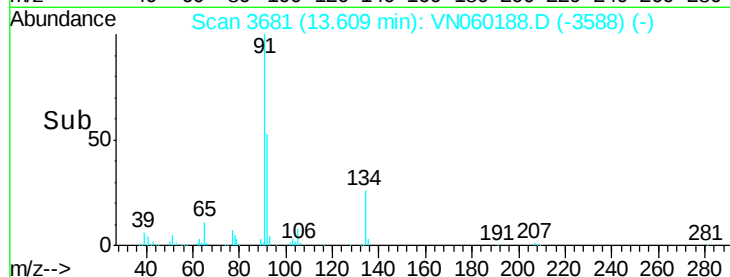
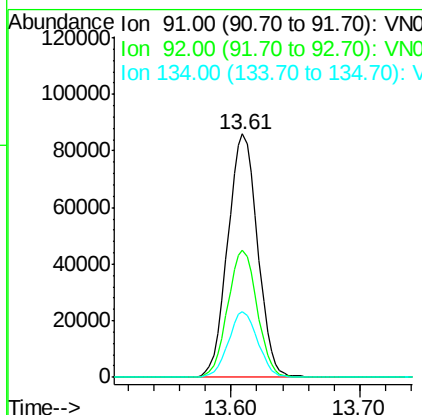
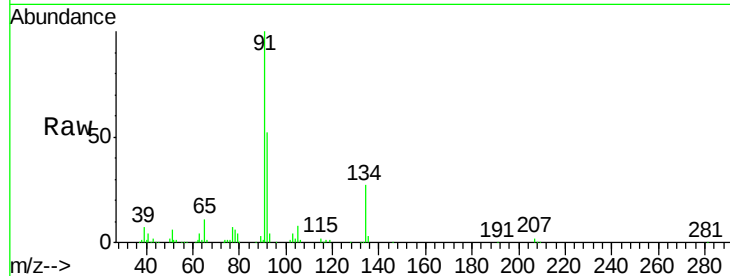
#89
n-Butylbenzene
Concen: 18.275 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		137940		
92	51.5	26.1	78.2		
134	26.4	13.1	39.3		

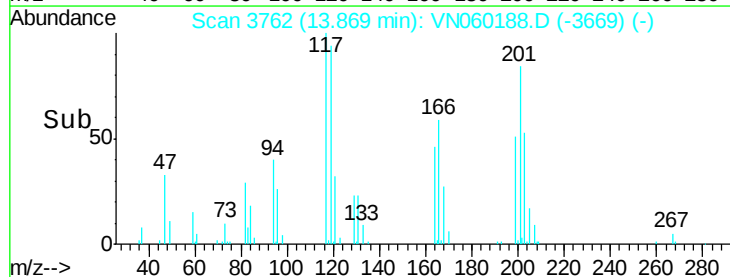
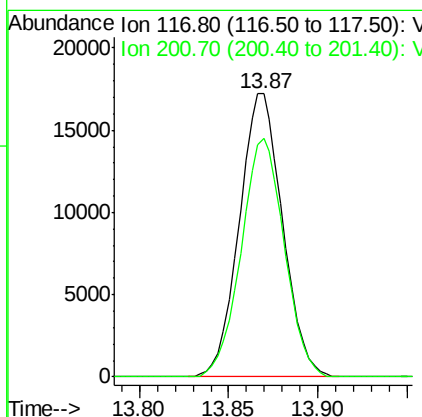
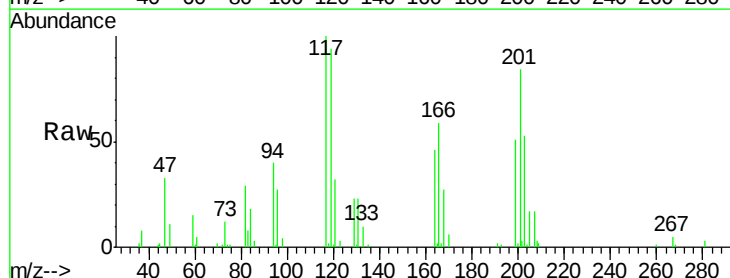
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#90
Hexachloroethane
Concen: 18.203 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		29182		
201	83.9	41.7	125.1		





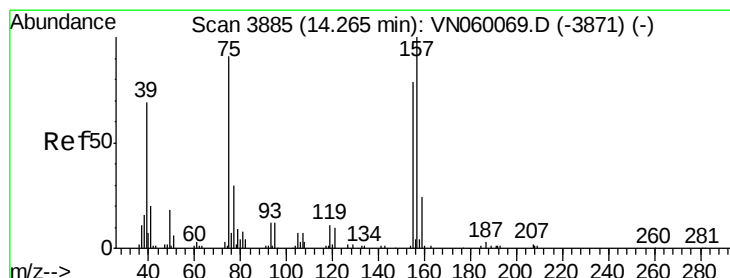
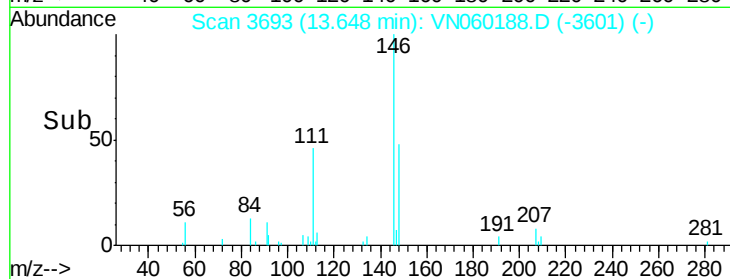
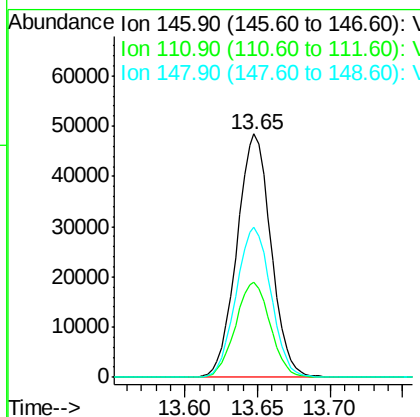
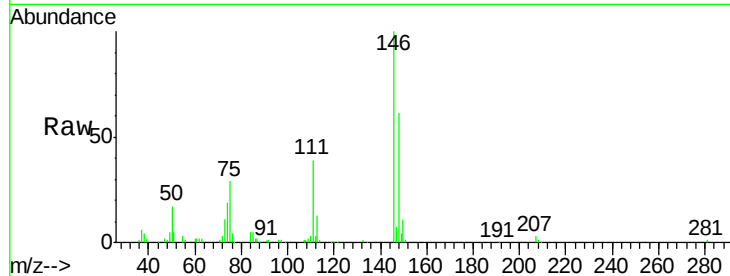
#91
 1,2-Dichlorobenzene
 Concen: 18.976 ug/l
 RT: 13.65 min Scan# 3693
 Delta R.T. -0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0221WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.1	60.2
148	63.1	31.9	95.5

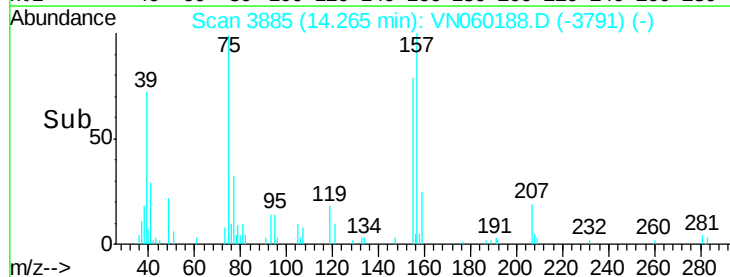
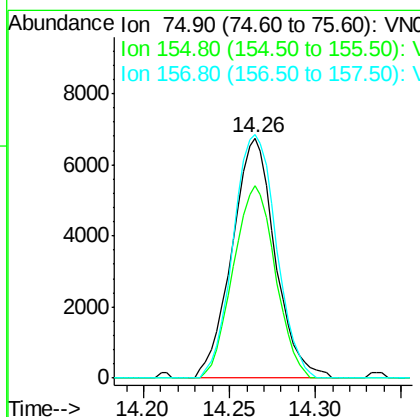
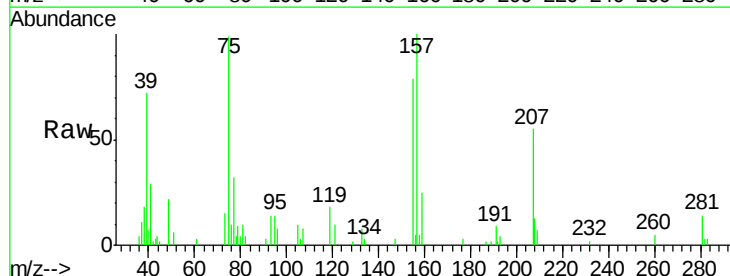
Manual Integrations
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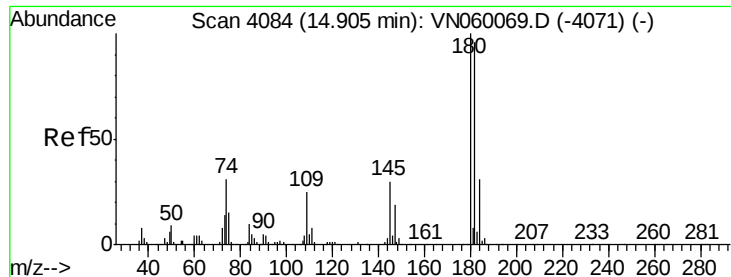
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.300 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.2	43.0	129.0
157	101.6	54.9	164.5





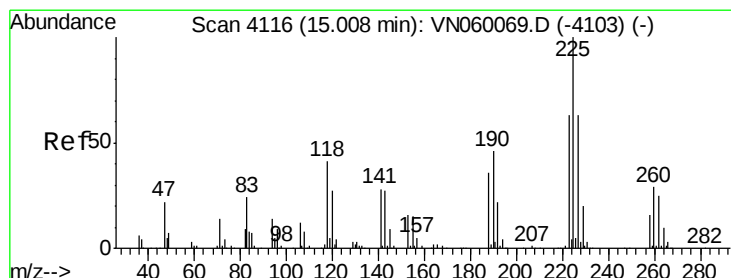
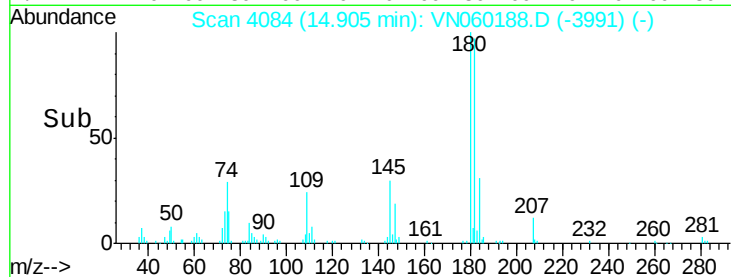
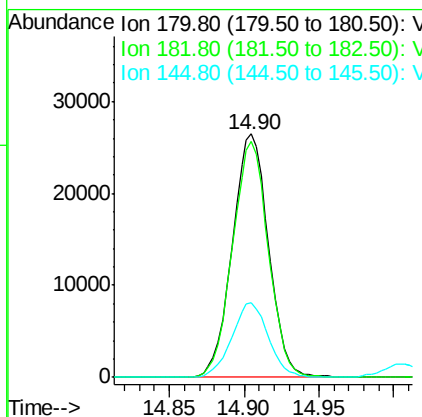
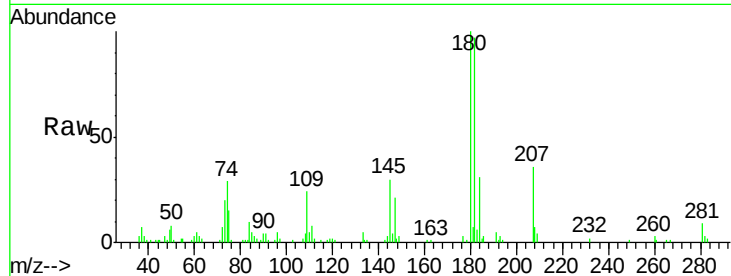
#93
 1,2,4-Trichlorobenzene
 Concen: 18.115 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0221WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	44492		
182	95.9	47.9	143.8	
145	30.7	15.2	45.5	

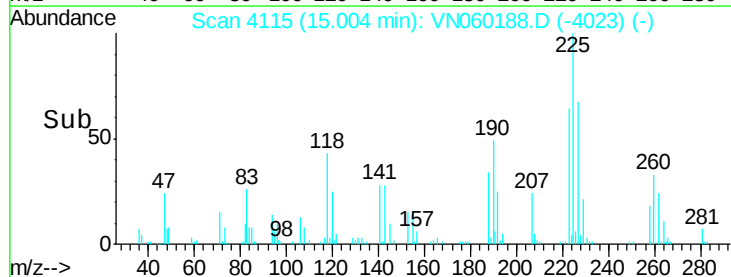
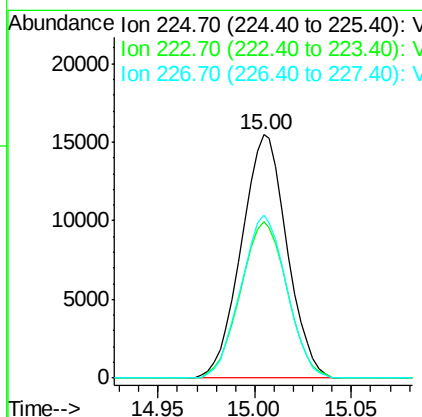
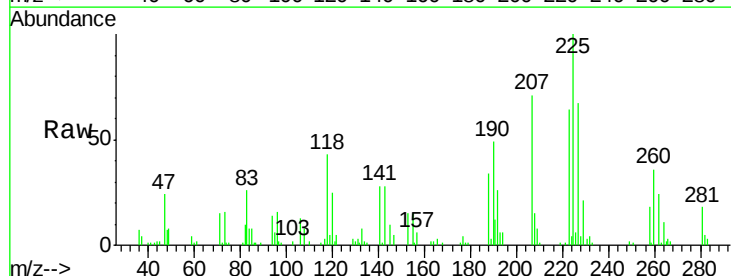
Manual Integrations
 APPROVED

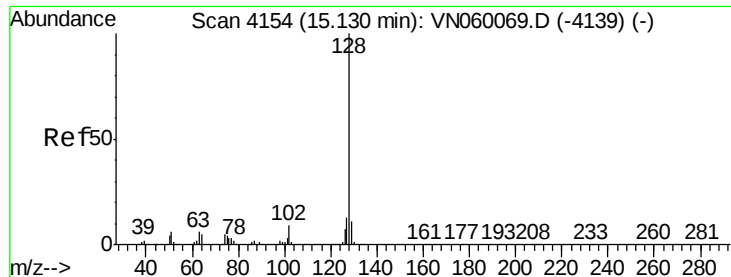
MMDadoda
 2/24/2020 11:41:16 AM



#94
 Hexachlorobutadiene
 Concen: 17.636 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN060188.D
 Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	25359		
223	65.8	31.5	94.5	
227	67.0	31.8	95.4	





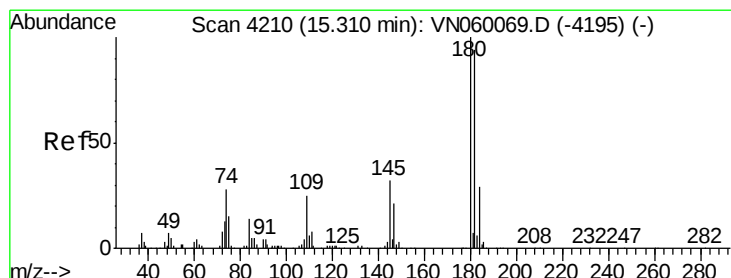
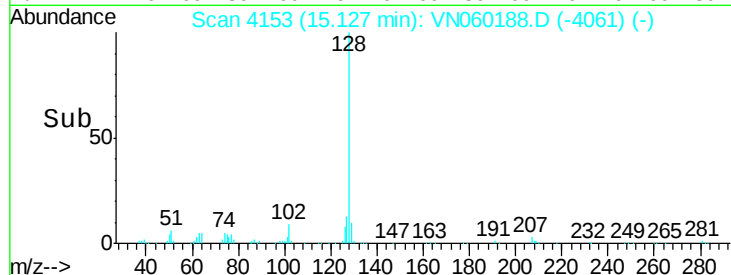
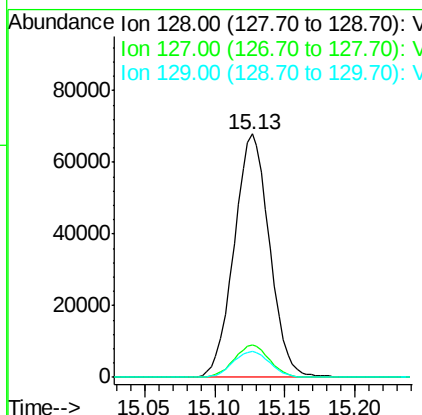
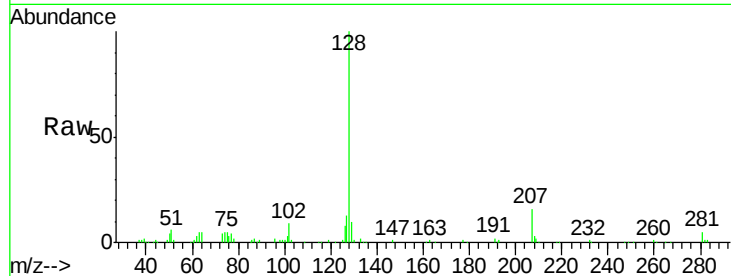
#95
Naphthalene
Concen: 17.993 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
VN0221WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	119375		
127	13.2	10.3	15.5	
129	11.1	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
2/24/2020 11:41:16 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.350 ug/l
RT: 15.31 min Scan# 4209
Delta R.T. -0.00 min
Lab File: VN060188.D
Acq: 21 Feb 2020 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	44883		
182	94.9	47.5	142.5	
145	31.7	16.1	48.3	

