

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN033119\
 Data File : VN054853.D
 Acq On : 31 Mar 2019 16:25
 Operator : JC/SP
 Sample : VN0331WBS02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 12:49:57 PM

Quant Time: Apr 01 03:32:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	393426	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	672511	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	566367	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	236007	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	299346	56.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.88%	
35) Dibromofluoromethane	7.59	113	235417	52.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.02%	
50) Toluene-d8	10.09	98	861185	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	
62) 4-Bromofluorobenzene	12.40	95	281016	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	78182	19.646	ug/l	98
3) Chloromethane	2.06	50	110341	20.053	ug/l	99
4) Vinyl Chloride	2.19	62	101451	20.531	ug/l	98
5) Bromomethane	2.57	94	50637	18.113	ug/l	98
6) Chloroethane	2.71	64	56271	20.394	ug/l	99
7) Trichlorofluoromethane	3.02	101	126753	20.865	ug/l	100
8) Diethyl Ether	3.41	74	44159	22.575	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.75	101	66186	20.696	ug/l	93
10) Methyl Iodide	3.94	142	77666	17.740	ug/l #	87
11) Tert butyl alcohol	4.83	59	36849	133.356	ug/l #	89
12) 1,1-Dichloroethene	3.73	96	65666	21.233	ug/l #	67
13) Acrolein	3.61	56	26848	108.685	ug/l	98
14) Allyl chloride	4.32	41	158915	20.862	ug/l #	90
15) Acrylonitrile	5.00	53	181376	118.093	ug/l	99
16) Acetone	3.82	43	138371	109.410	ug/l #	83
17) Carbon Disulfide	4.04	76	187780	18.721	ug/l	99
18) Methyl Acetate	4.33	43	88471	26.424	ug/l #	88
19) Methyl tert-butyl Ether	5.06	73	243437	22.503	ug/l	94
20) Methylene Chloride	4.54	84	100331	22.490	ug/l #	86
21) trans-1,2-Dichloroethene	5.04	96	83959	20.669	ug/l #	82
22) Diisopropyl ether	5.96	45	329973	21.902	ug/l #	94
23) Vinyl Acetate	5.90	43	1208211	115.238	ug/l #	92
24) 1,1-Dichloroethane	5.85	63	176850	22.005	ug/l	98
25) 2-Butanone	6.85	43	226950	121.399	ug/l #	88
26) 2,2-Dichloropropane	6.82	77	108221	19.212	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	100820	21.971	ug/l	90
28) Bromochloromethane	7.19	49	95982	23.884	ug/l #	70
29) Tetrahydrofuran	7.22	42	154740	119.175	ug/l #	85
30) Chloroform	7.37	83	169769	22.153	ug/l	97
31) Cyclohexane	7.65	56	166630	21.584	ug/l #	83
32) 1,1,1-Trichloroethane	7.57	97	138422	21.796	ug/l	95
36) 1,1-Dichloropropene	7.79	75	122288	19.515	ug/l	96
37) Ethyl Acetate	6.94	43	105020	22.853	ug/l #	95
38) Carbon Tetrachloride	7.77	117	120179	19.745	ug/l	96

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 VN0331WBS02

Manual Integrations
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Quant Time: Apr 01 03:32:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	130846	18.993	ug/l	89
40) Benzene	8.04	78	376399	20.992	ug/l	98
41) Methacrylonitrile	7.18	41	59594	23.085	ug/l #	88
42) 1,2-Dichloroethane	8.13	62	133776	20.895	ug/l	98
43) Isopropyl Acetate	8.17	43	172619	23.118	ug/l #	92
44) Trichloroethene	8.83	130	94198	20.237	ug/l	91
45) 1,2-Dichloropropane	9.12	63	105885	20.710	ug/l	99
46) Dibromomethane	9.21	93	61726	21.461	ug/l	90
47) Bromodichloromethane	9.40	83	128493	21.496	ug/l	95
48) Methyl methacrylate	9.20	41	86936	21.478	ug/l #	86
49) 1,4-Dioxane	9.21	88	19196	477.974	ug/l #	75
51) 4-Methyl-2-Pentanone	9.99	43	488432	116.347	ug/l	93
52) Toluene	10.16	92	226360	21.215	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	112797	20.060	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	139439	20.760	ug/l #	88
55) 1,1,2-Trichloroethane	10.56	97	83034	20.929	ug/l	95
56) Ethyl methacrylate	10.43	69	111335	21.393	ug/l #	83
57) 1,3-Dichloropropane	10.71	76	147376	21.607	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	211779	100.909	ug/l	89
59) 2-Hexanone	10.75	43	306687	114.119	ug/l	89
60) Dibromochloromethane	10.90	129	83550	20.790	ug/l	99
61) 1,2-Dibromoethane	11.01	107	80115	21.131	ug/l	98
64) Tetrachloroethene	10.63	164	88128	20.277	ug/l	95
65) Chlorobenzene	11.44	112	228189	20.578	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	86273	20.786	ug/l	97
67) Ethyl Benzene	11.51	91	408706	20.425	ug/l	99
68) m/p-Xylenes	11.62	106	302341	40.829	ug/l	95
69) o-Xylene	11.95	106	145808	20.080	ug/l	91
70) Styrene	11.96	104	241863	20.832	ug/l	96
71) Bromoform	12.13	173	51588	21.216	ug/l #	97
73) Isopropylbenzene	12.25	105	394631	20.458	ug/l	97
74) N-amyl acetate	12.07	43	129241	21.505	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.51	83	106065	24.053	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	94607m	23.075	ug/l	
77) Bromobenzene	12.53	156	95313	20.473	ug/l	85
78) n-propylbenzene	12.59	91	428861	20.227	ug/l	95
79) 2-Chlorotoluene	12.68	91	266621	20.326	ug/l	93
80) 1,3,5-Trimethylbenzene	12.73	105	318930	20.149	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	19752	18.739	ug/l #	75
82) 4-Chlorotoluene	12.77	91	252260	19.800	ug/l	96
83) tert-Butylbenzene	12.99	119	278047	21.481	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	311904	20.684	ug/l	97
85) sec-Butylbenzene	13.17	105	347884	20.232	ug/l	96
86) p-Isopropyltoluene	13.29	119	297916	19.645	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	153405	19.681	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	147214	19.256	ug/l	97
89) n-Butylbenzene	13.62	91	225706	18.242	ug/l	96
90) Hexachloroethane	13.87	117	50256	19.518	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	152713	19.413	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	14610	22.155	ug/l	85

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ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
APPROVED

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	64232	16.937	ug/l	100
94) Hexachlorobutadiene	15.01	225	44668	18.565	ug/l	98
95) Naphthalene	15.13	128	155532	18.285	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	70493	18.405	ug/l	97

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

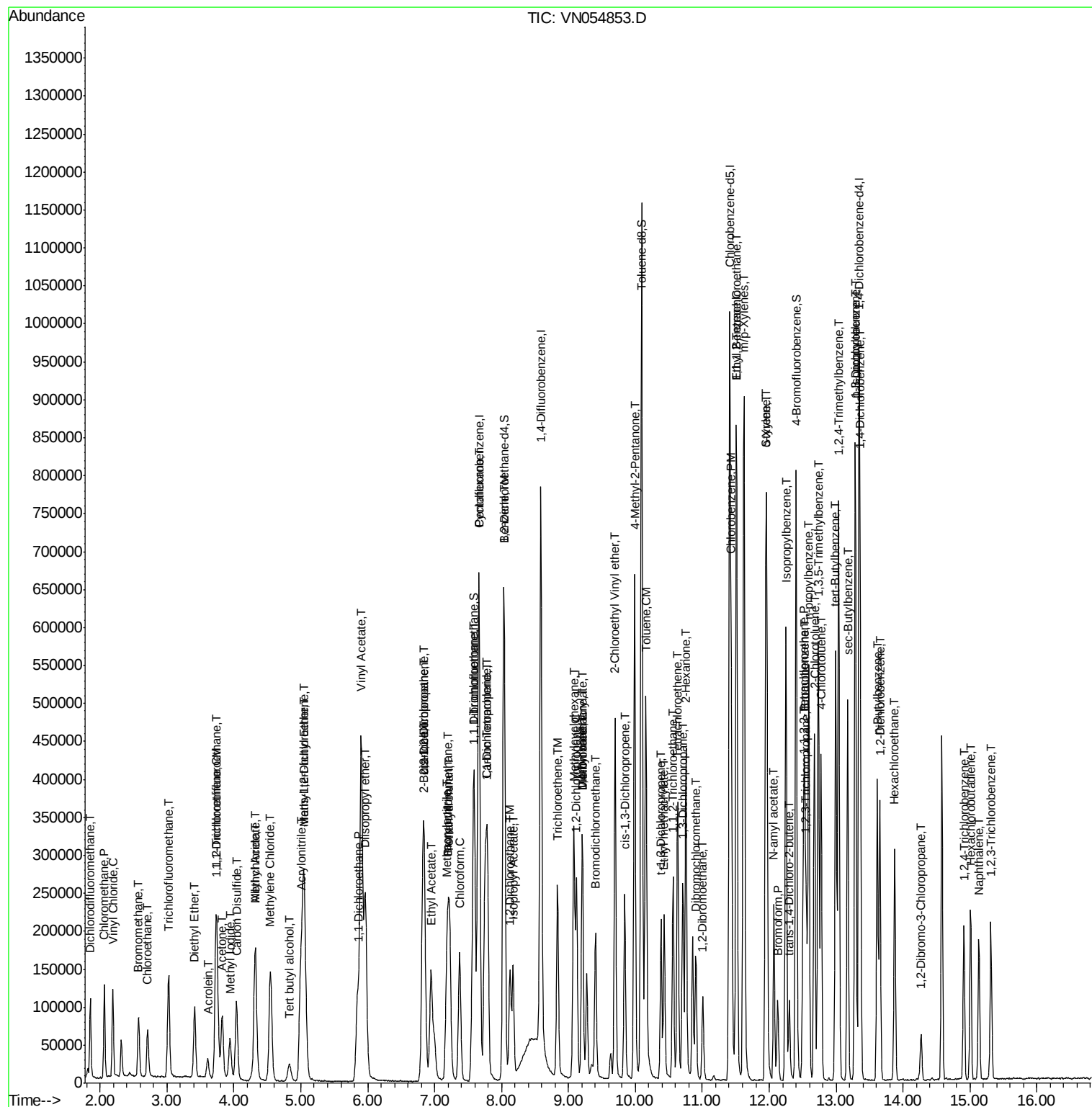
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Data File : VN054853.D
Acq On : 31 Mar 2019 16:25
Operator : JC/SP
Sample : VN0331WBS02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

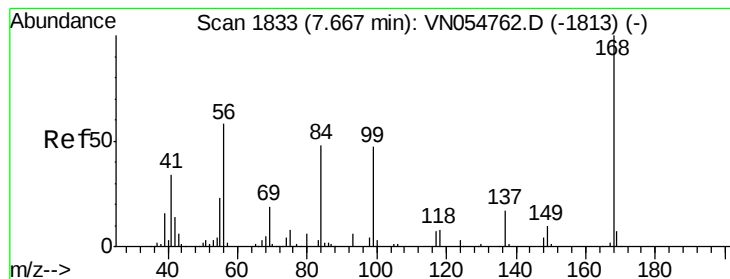
Instrument :
MSVOA_N
Client Sample Id :
VN0331WBS02

Manual Integrations
APPROVED

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4/1/2019 12:49:57 PM

Quant Time: Apr 01 03:32:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 168 Resp: 393426

Ion Ratio Lower Upper

168 100

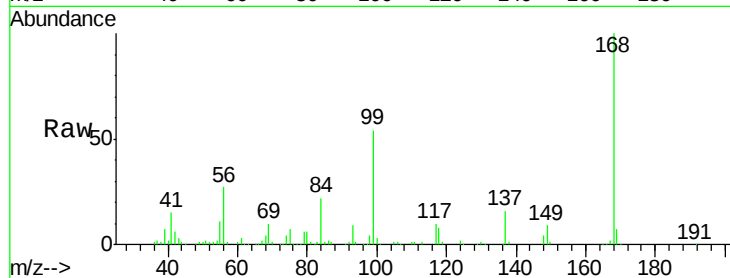
99 53.3 37.1 55.7

Manual Integrations

APPROVED

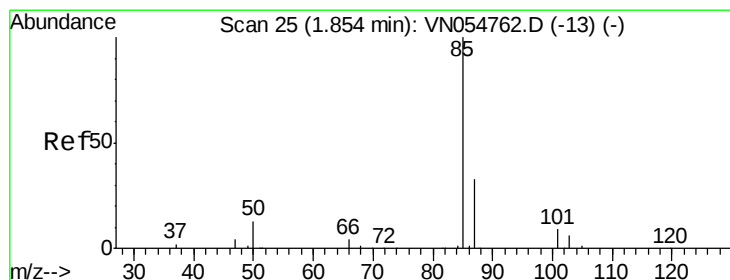
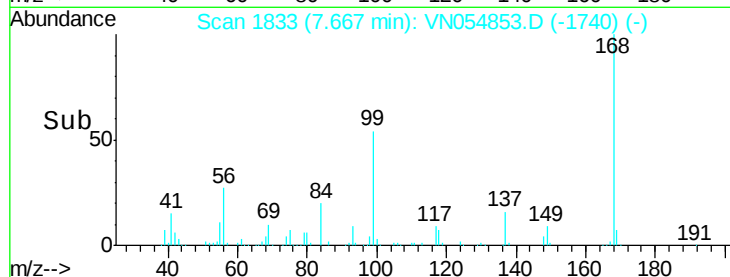
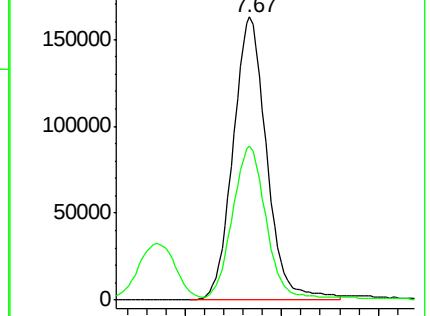
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4/1/2019 12:49:57 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 19.646 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054853.D

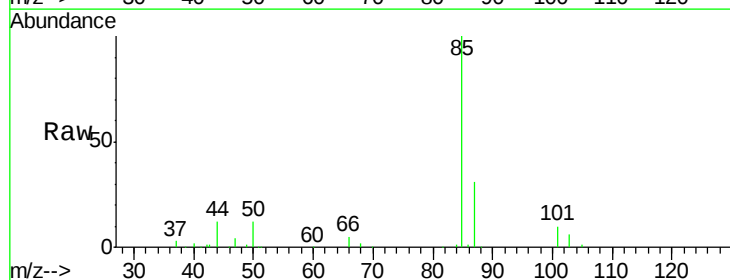
Acq: 31 Mar 2019 16:25

Tgt Ion: 85 Resp: 78182

Ion Ratio Lower Upper

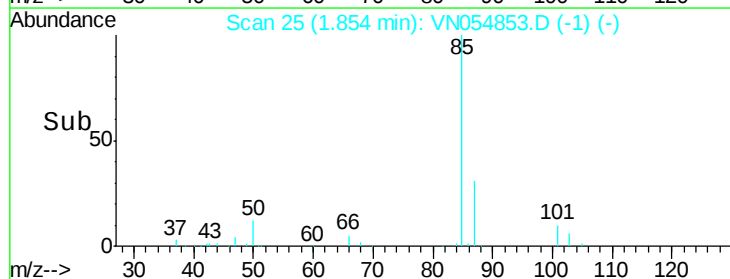
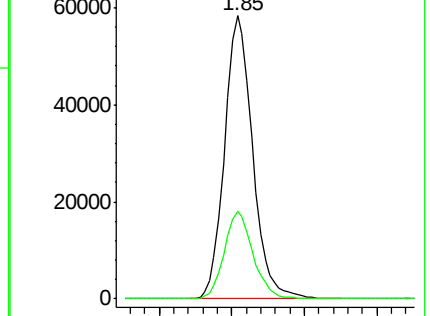
85 100

87 30.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 20.053 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 50 Resp: 110341

Ion Ratio Lower Upper

50 100

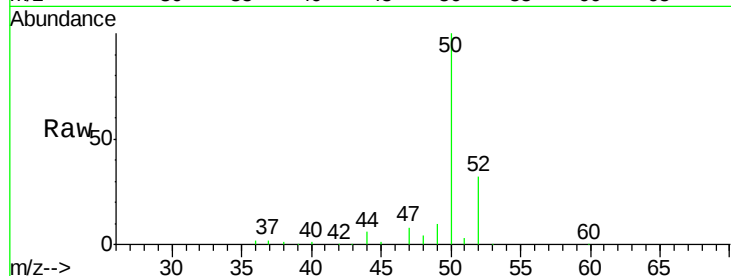
52 32.2 26.4 39.6

Manual Integrations

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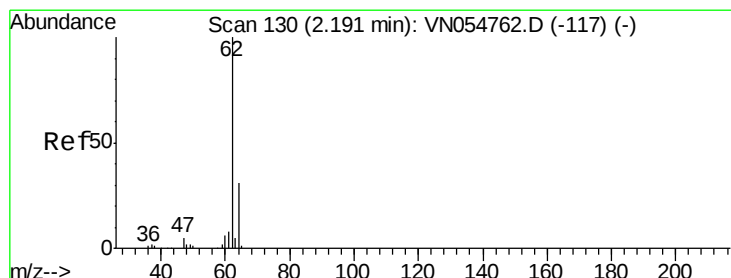
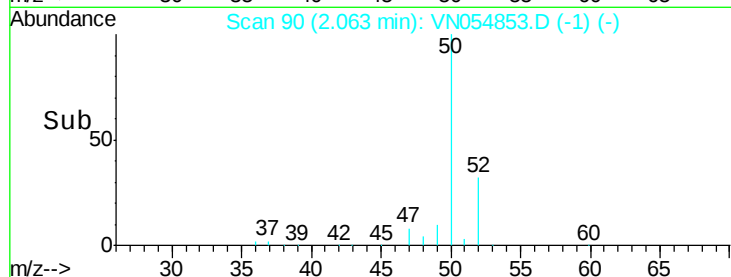
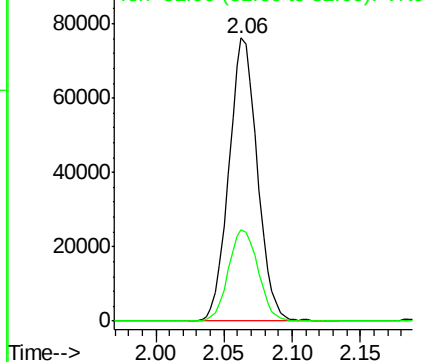
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 20.531 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN054853.D

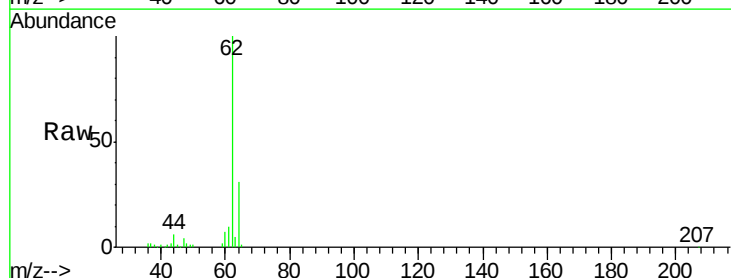
Acq: 31 Mar 2019 16:25

Tgt Ion: 62 Resp: 101451

Ion Ratio Lower Upper

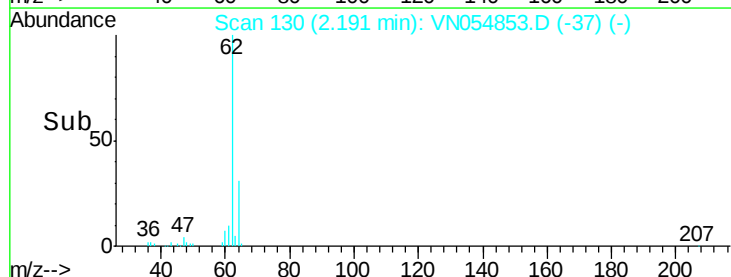
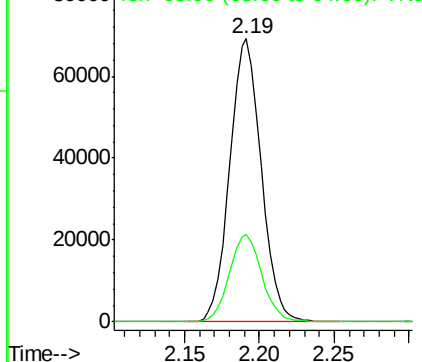
62 100

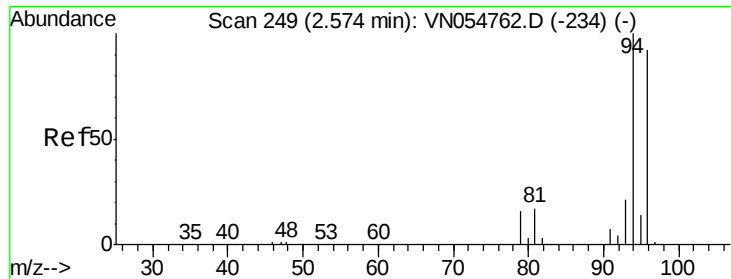
64 30.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 18.113 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 94 Resp: 50637

Ion Ratio Lower Upper

94 100

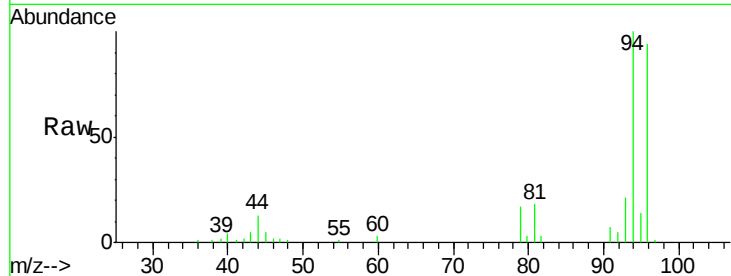
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Manual Integrations

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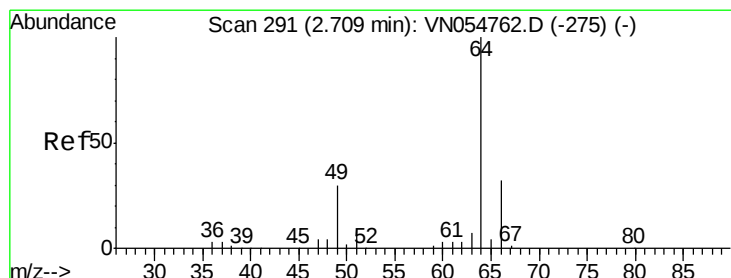
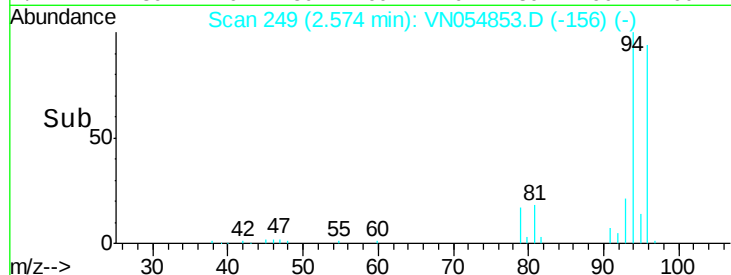
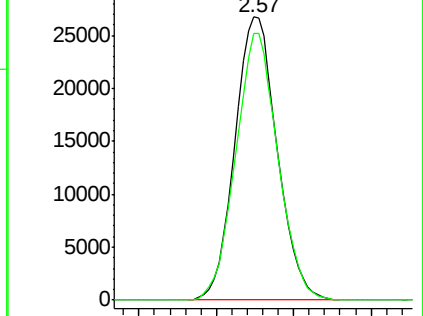
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.394 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054853.D

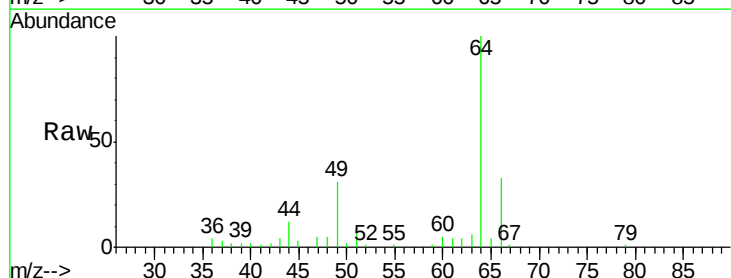
Acq: 31 Mar 2019 16:25

Tgt Ion: 64 Resp: 56271

Ion Ratio Lower Upper

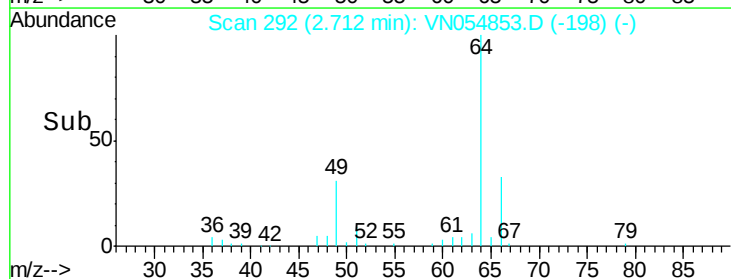
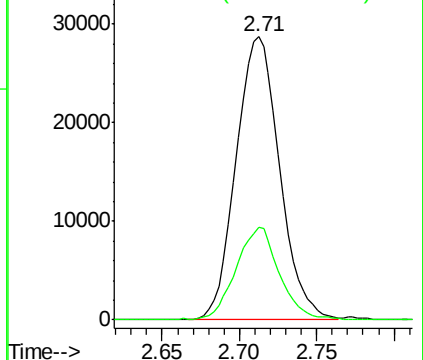
64 100

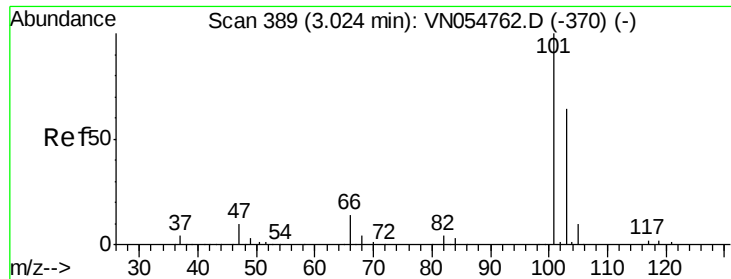
66 32.5 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

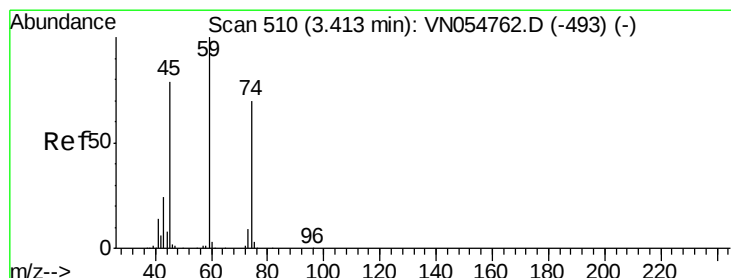
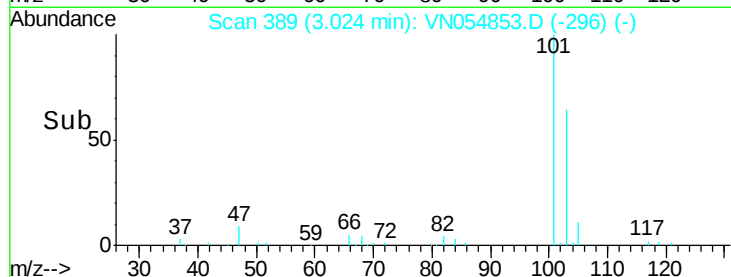
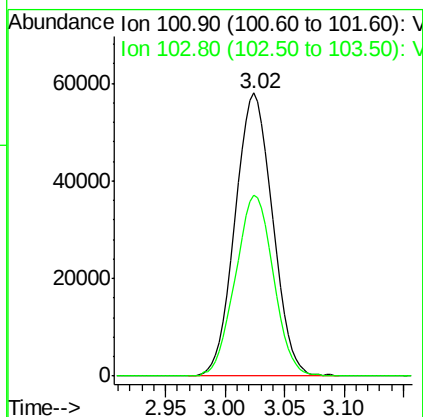
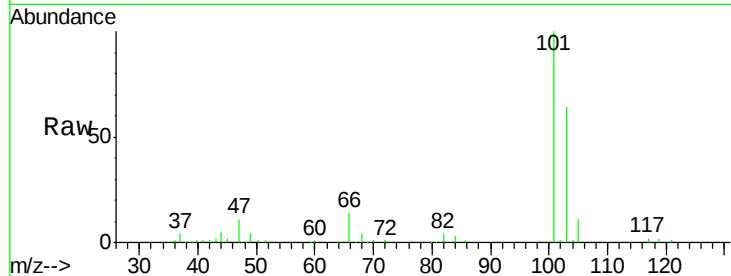
Trichlorofluoromethane
Concen: 20.865 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion:101 Resp: 126753
Ion Ratio Lower Upper
101 100
103 64.0 51.4 77.2

Manual Integrations
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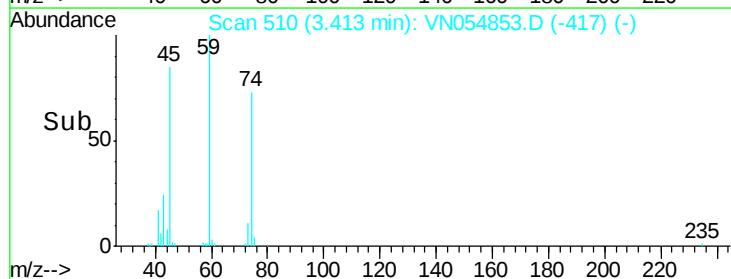
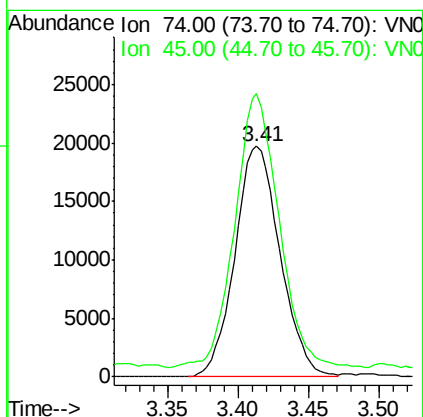
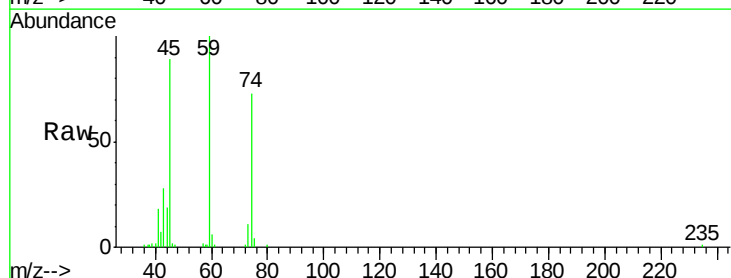
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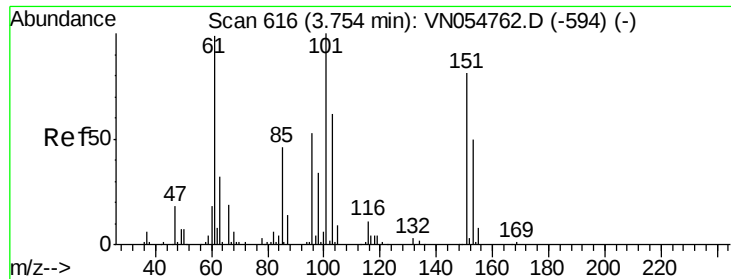


#8

Diethyl Ether
Concen: 22.575 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion: 74 Resp: 44159
Ion Ratio Lower Upper
74 100
45 116.0 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.696 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

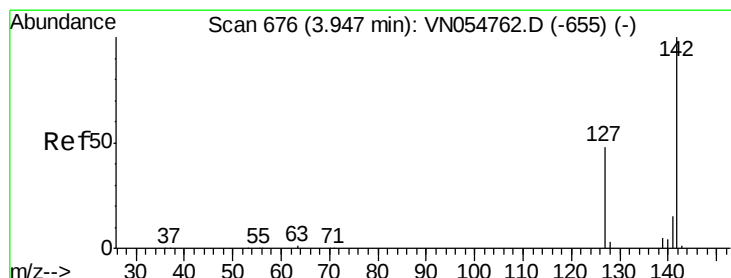
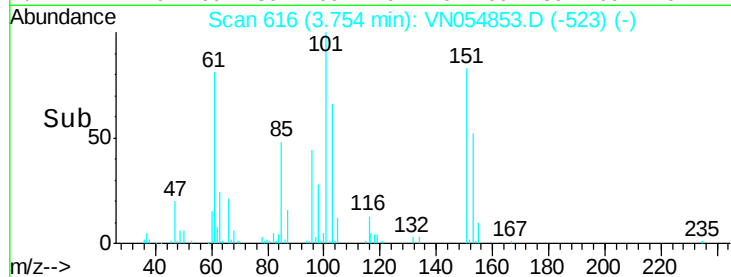
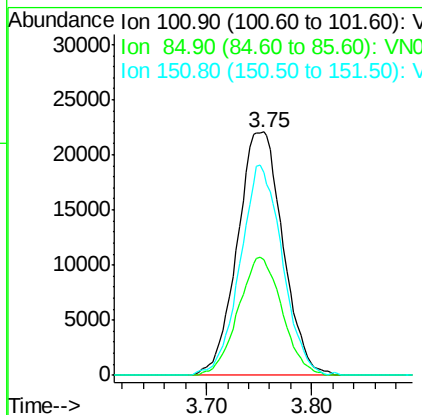
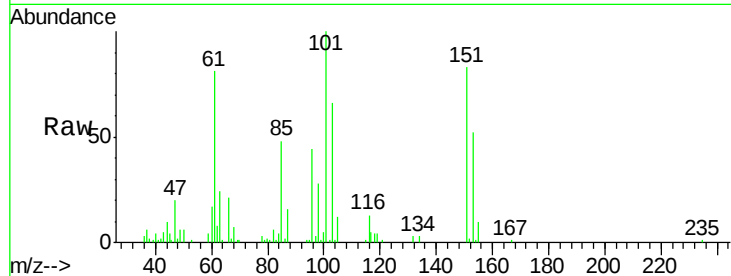
ClientSampled :

VN0331WBS02

Tgt Ion:	101	Resp:	66186
Ion Ratio	Lower	Upper	
101	100		
85	46.5	32.4	48.6
151	80.0	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 17.740 ug/l

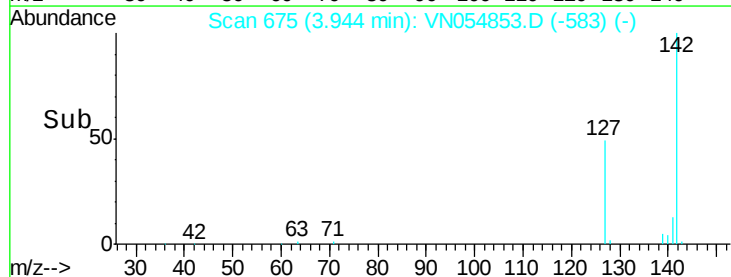
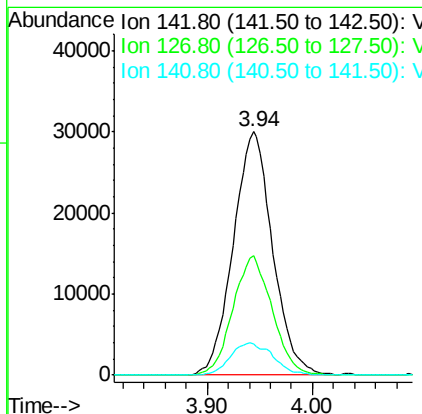
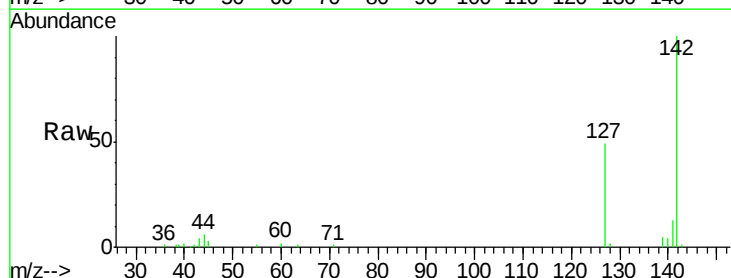
RT: 3.94 min Scan# 675

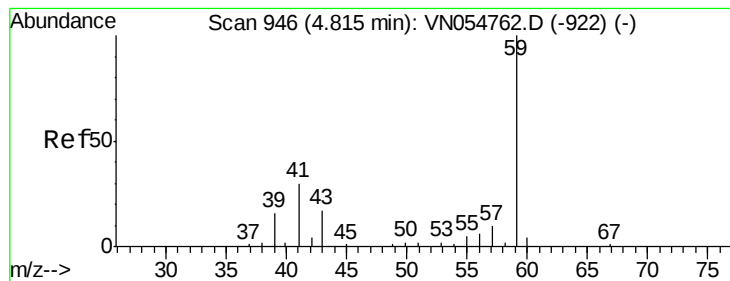
Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	142	Resp:	77666
Ion Ratio	Lower	Upper	
142	100		
127	48.8	30.3	45.5#
141	14.3	11.2	16.8





#11

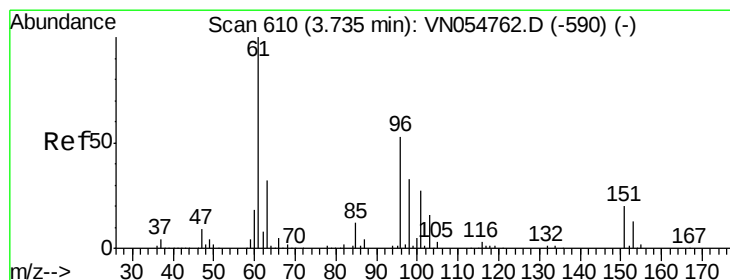
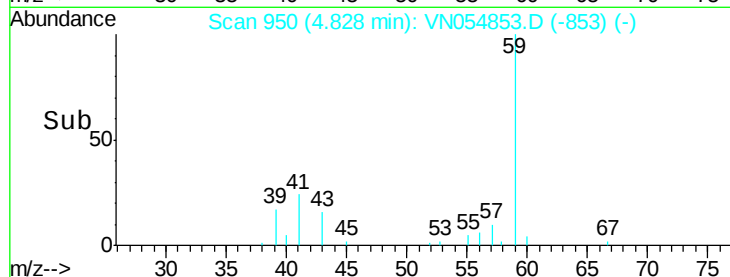
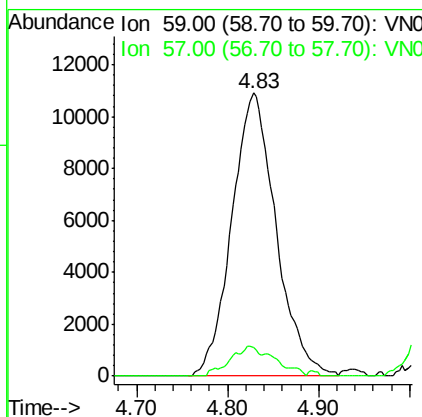
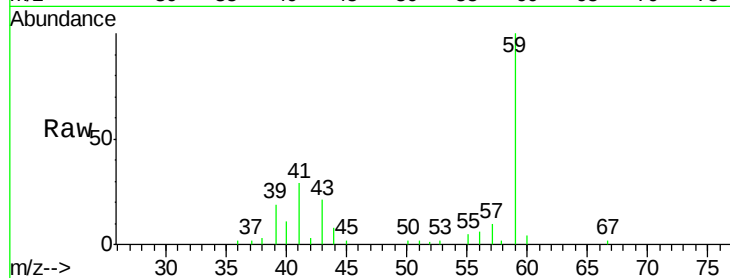
Tert butyl alcohol
Concen: 133.356 ug/l
RT: 4.83 min Scan# 950
Delta R.T. 0.01 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion: 59 Resp: 36849
Ion Ratio Lower Upper
59 100
57 7.0 9.0 13.6#

Manual Integrations
APPROVED

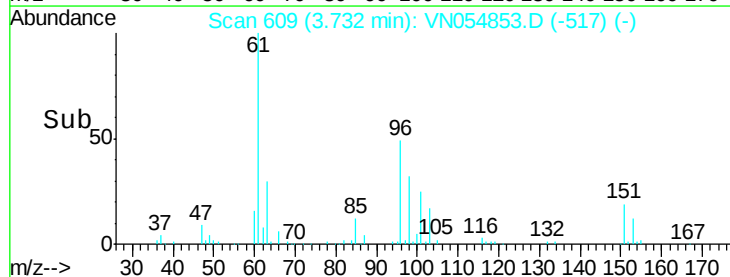
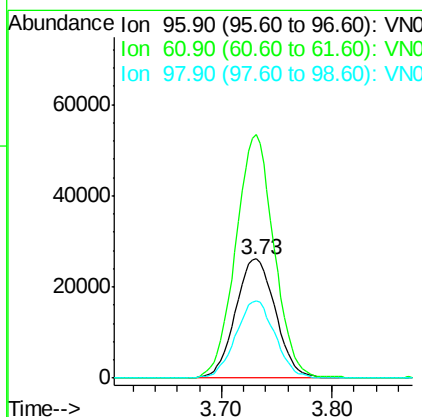
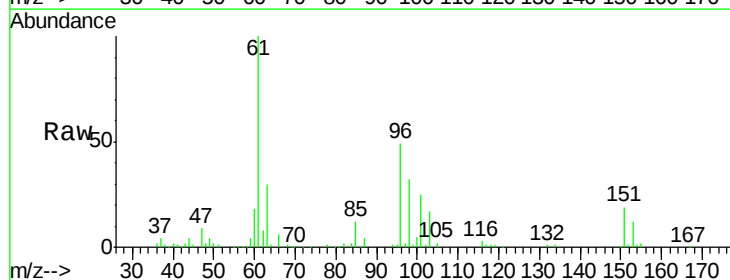
MMDadoda
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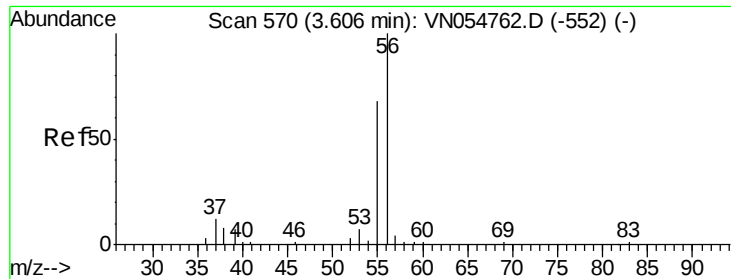


#12

1,1-Dichloroethene
Concen: 21.233 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion: 96 Resp: 65666
Ion Ratio Lower Upper
96 100
61 204.1 116.5 174.7#
98 64.7 51.0 76.4





#13

Acrolein

Concen: 108.685 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 56 Resp: 26848

Ion Ratio Lower Upper

56 100

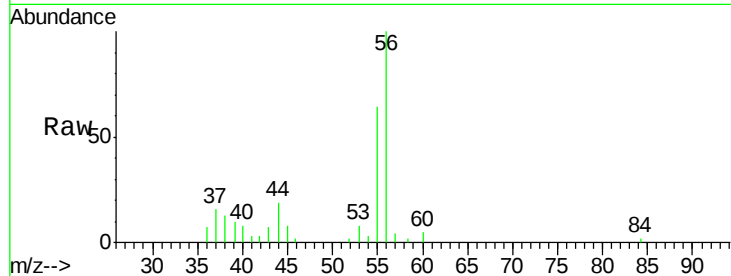
55 72.6 56.7 85.1

Manual Integrations

APPROVED

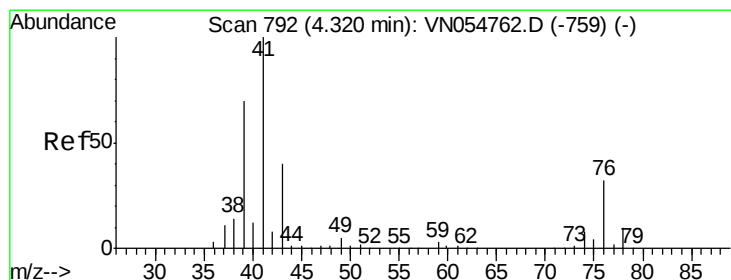
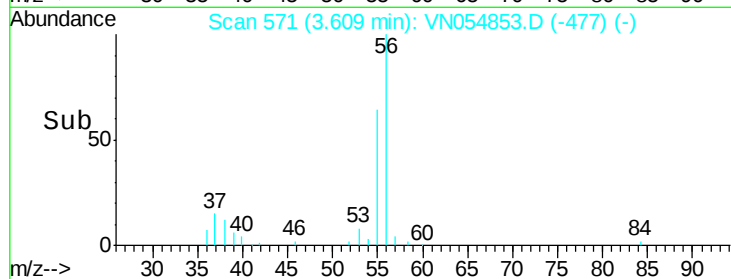
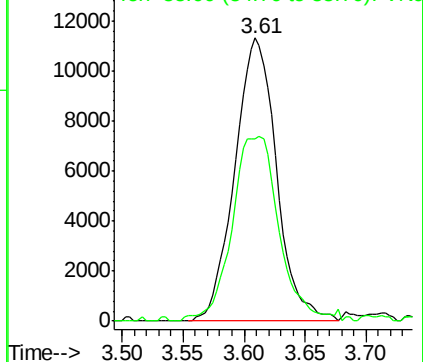
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 20.862 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

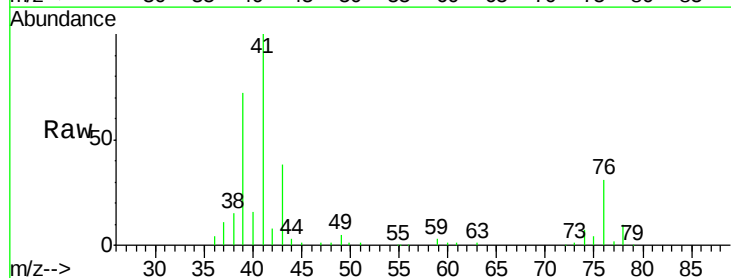
Tgt Ion: 41 Resp: 158915

Ion Ratio Lower Upper

41 100

39 68.1 58.2 87.4

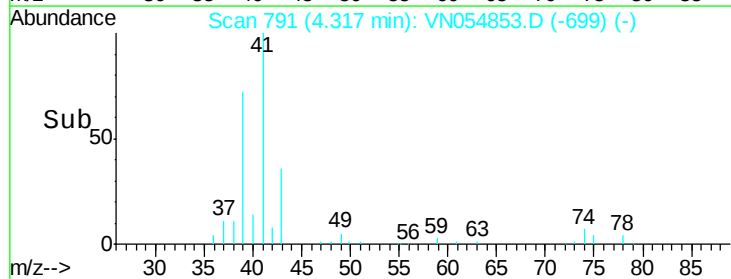
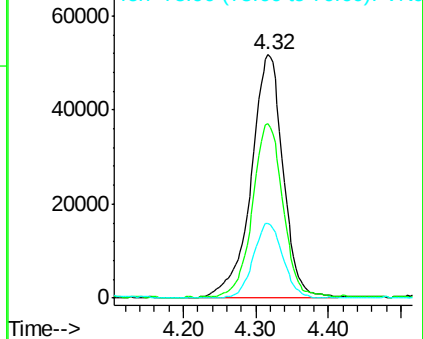
76 28.4 31.7 47.5#

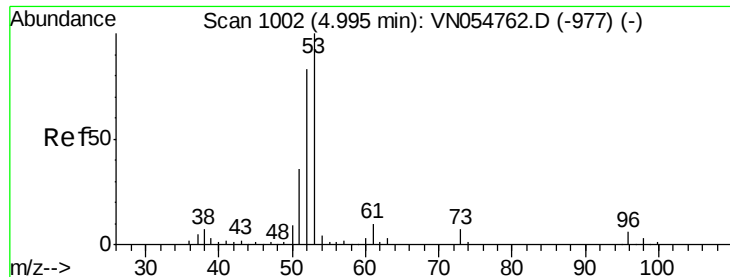


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 118.093 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

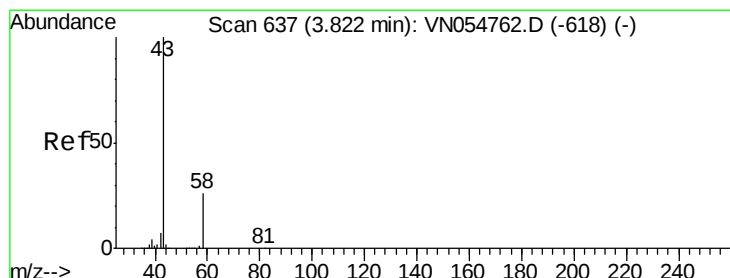
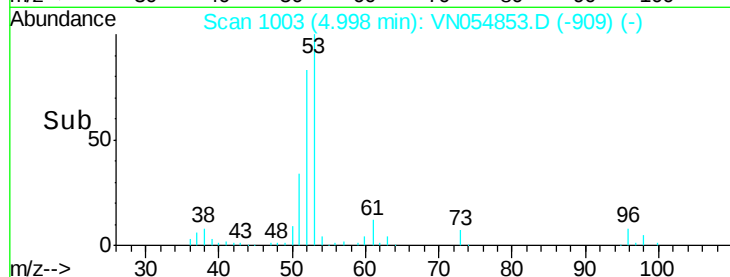
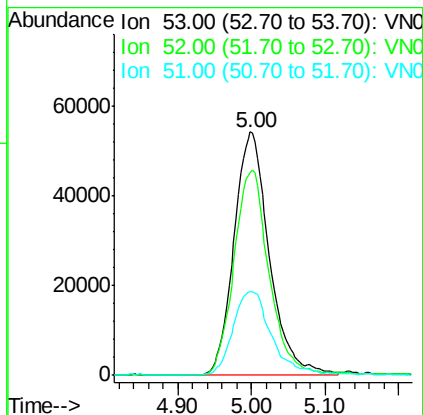
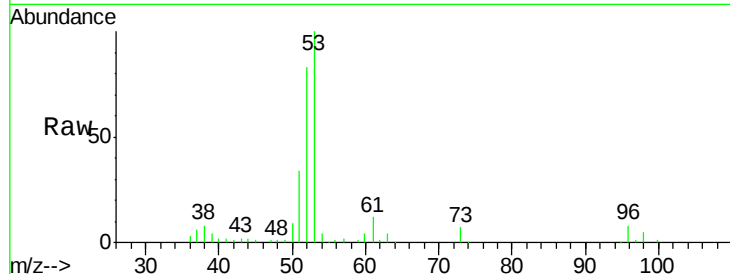
ClientSampleId :

VN0331WBS02

Tgt Ion:	53	Resp:	181376
Ion	Ratio	Lower	Upper
53	100		
52	83.7	66.4	99.6
51	37.3	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 109.410 ug/l

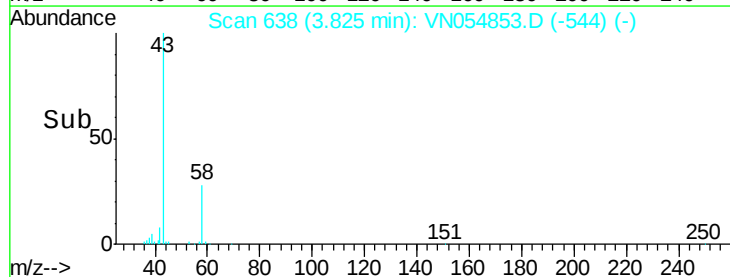
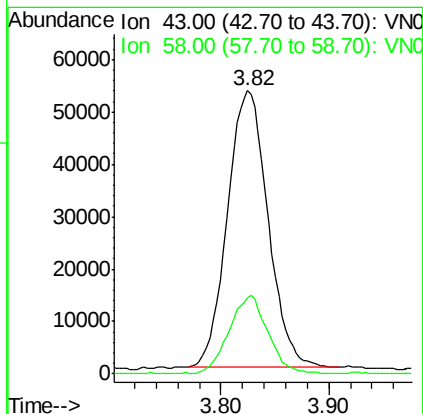
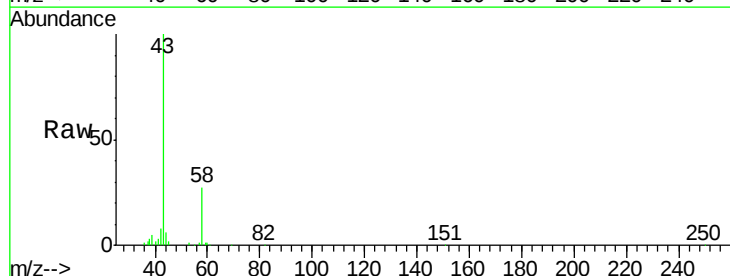
RT: 3.82 min Scan# 638

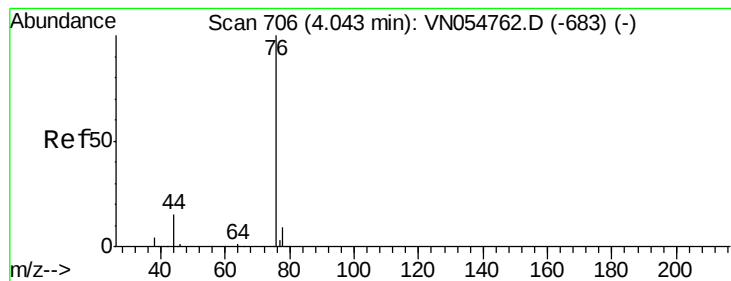
Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	43	Resp:	138371
Ion	Ratio	Lower	Upper
43	100		
58	27.3	29.9	44.9#





#17

Carbon Disulfide

Concen: 18.721 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 76 Resp: 187780

Ion Ratio Lower Upper

76 100

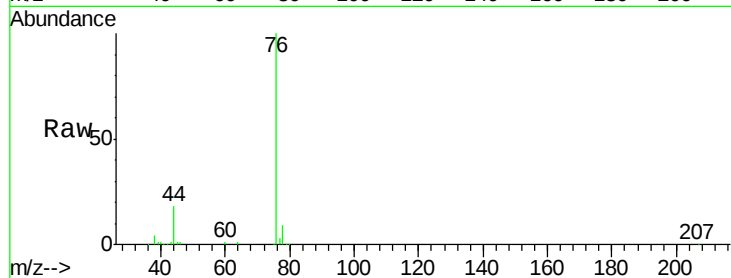
78 8.9 7.5 11.3

Manual Integrations

APPROVED

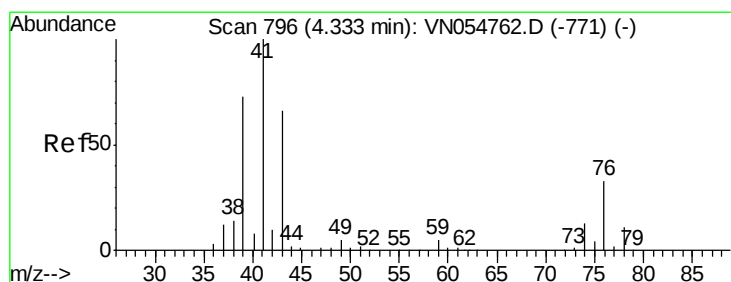
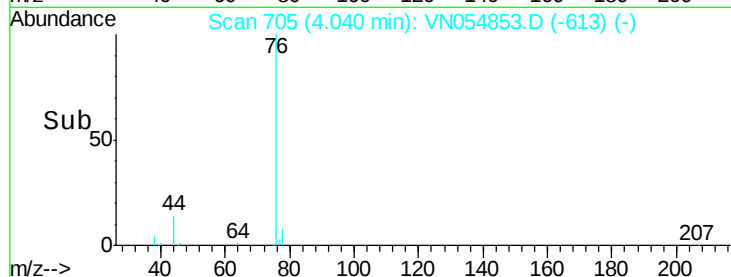
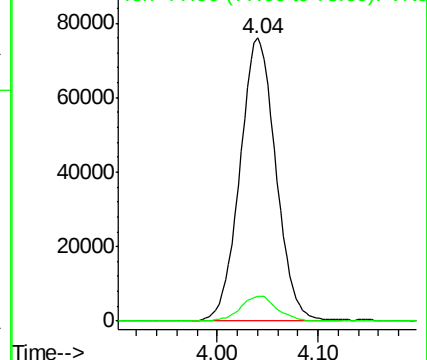
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 26.424 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054853.D

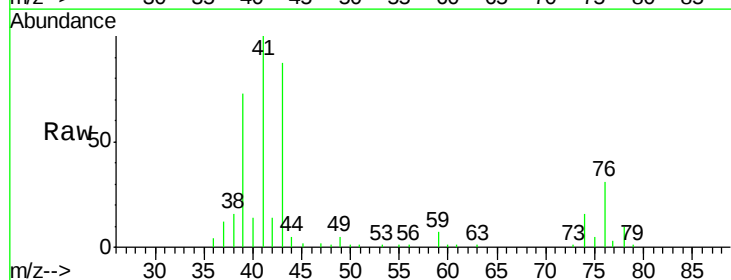
Acq: 31 Mar 2019 16:25

Tgt Ion: 43 Resp: 88471

Ion Ratio Lower Upper

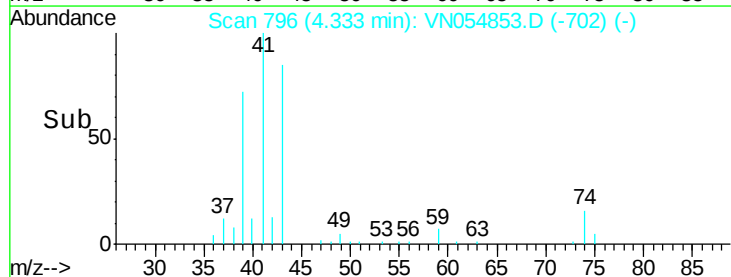
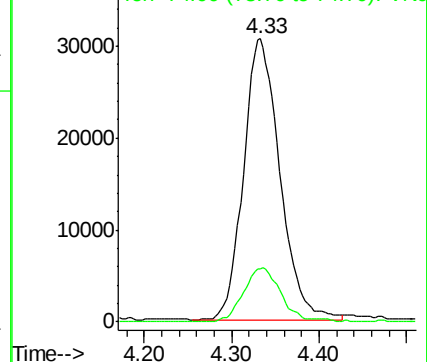
43 100

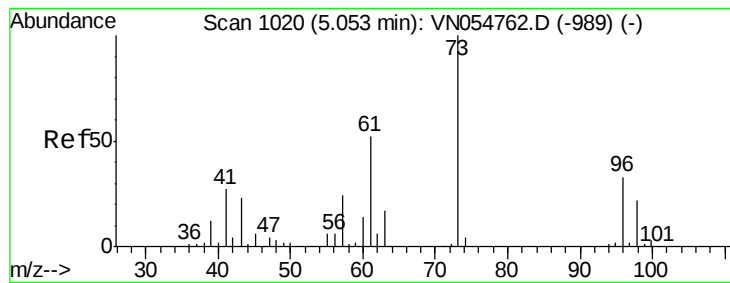
74 19.6 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





#19

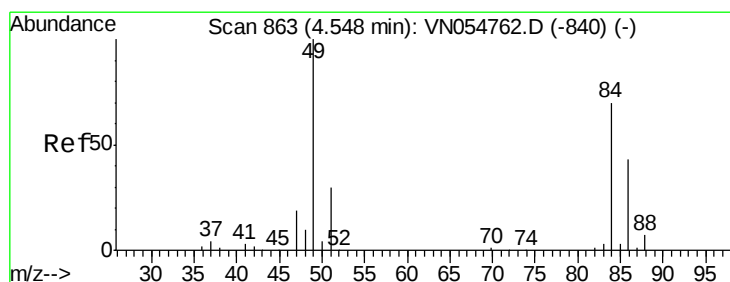
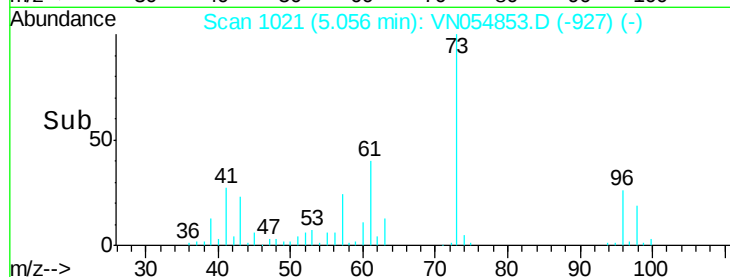
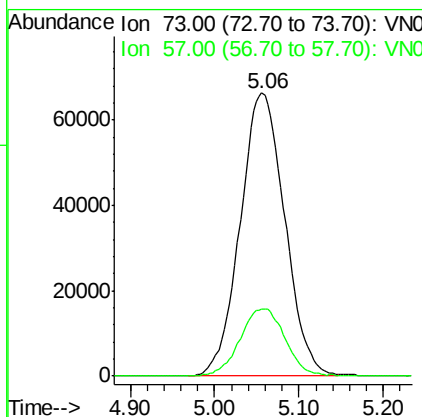
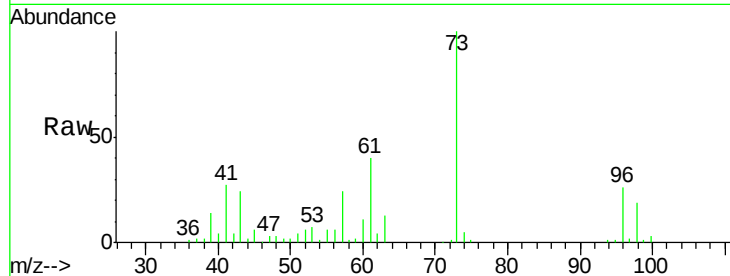
Methyl tert-butyl Ether
 Concen: 22.503 ug/l
 RT: 5.06 min Scan# 1021
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampled :
 VN0331WBS02

Tgt Ion: 73 Resp: 243437
 Ion Ratio Lower Upper
 73 100
 57 23.6 16.8 25.2

Manual Integrations
 APPROVED

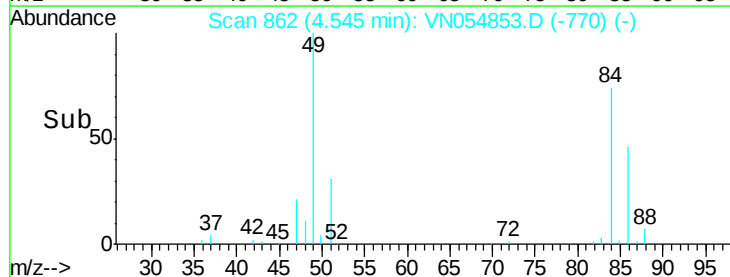
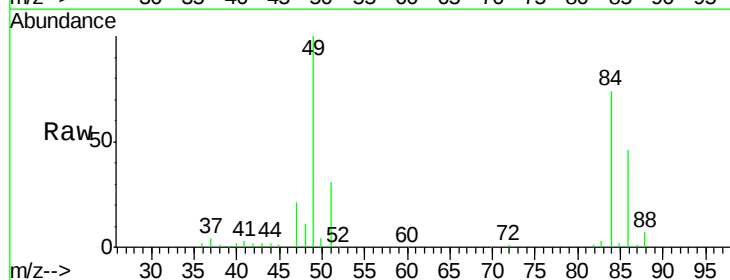
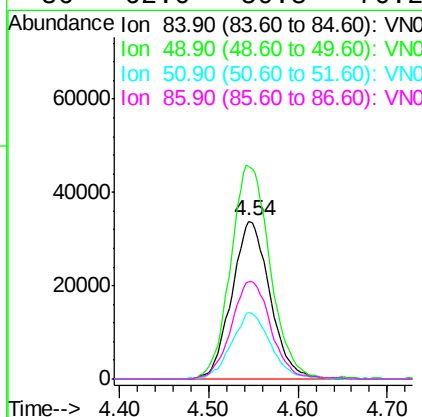
MMDadoda
 4/1/2019 12:49:57 PM

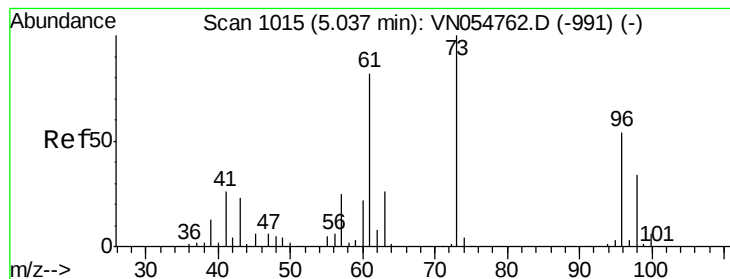


#20

Methylene Chloride
 Concen: 22.490 ug/l
 RT: 4.54 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion: 84 Resp: 100331
 Ion Ratio Lower Upper
 84 100
 49 134.9 89.7 134.5#
 51 42.2 28.2 42.4
 86 62.0 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 20.669 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 96 Resp: 83959

Ion Ratio Lower Upper

96 100

61 159.2 102.8 154.2#

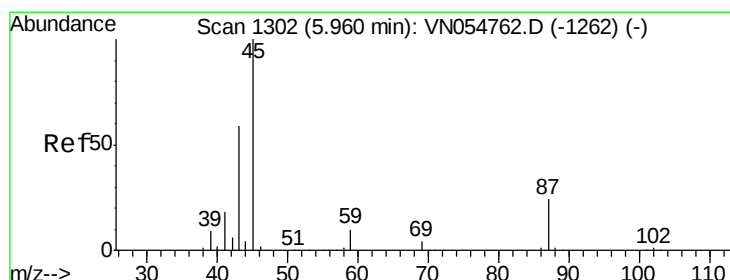
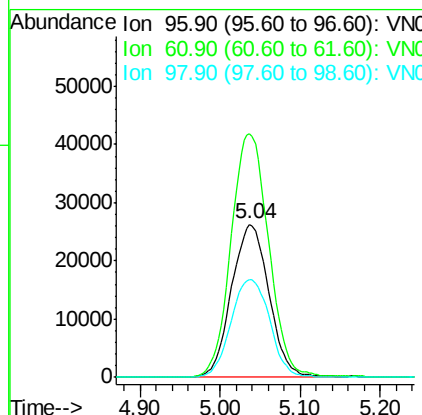
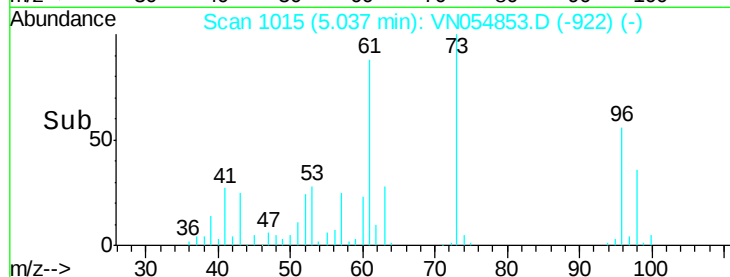
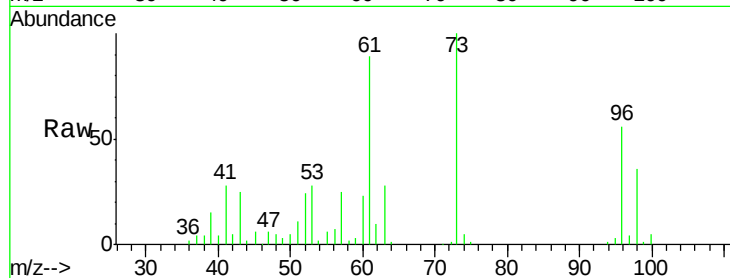
98 64.0 50.0 75.0

Manual Integrations

APPROVED

MMDadoda

4/1/2019 12:49:57 PM



#22

Diisopropyl ether

Concen: 21.902 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion: 45 Resp: 329973

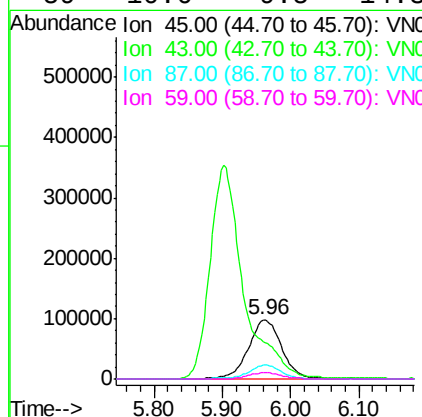
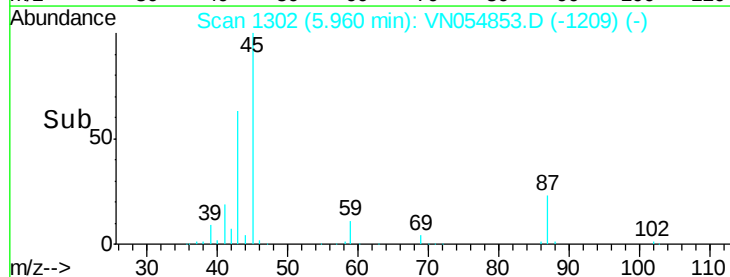
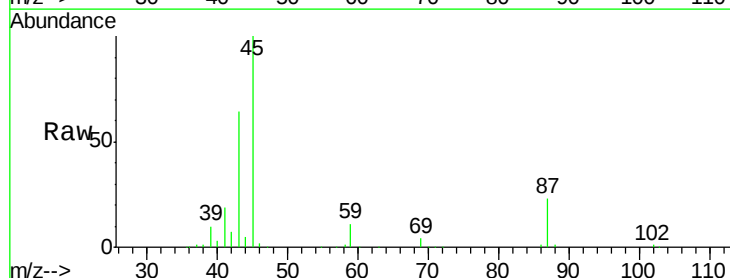
Ion Ratio Lower Upper

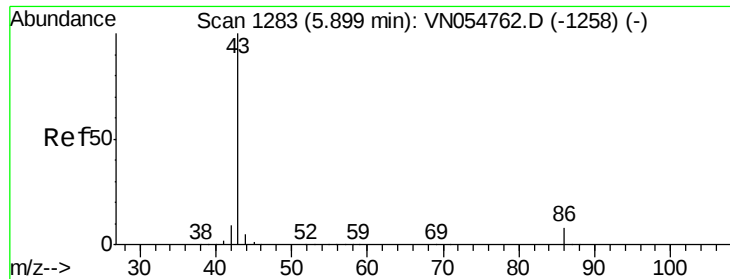
45 100

43 61.5 48.2 72.2

87 23.3 24.9 37.3#

59 10.6 9.5 14.3





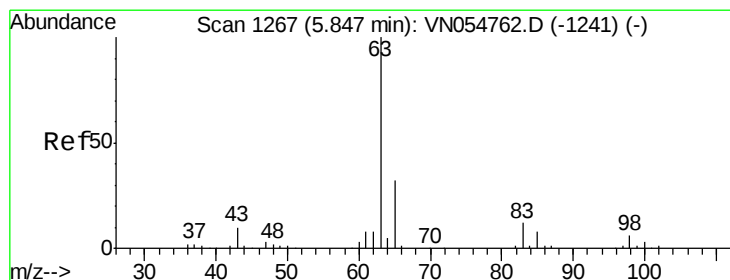
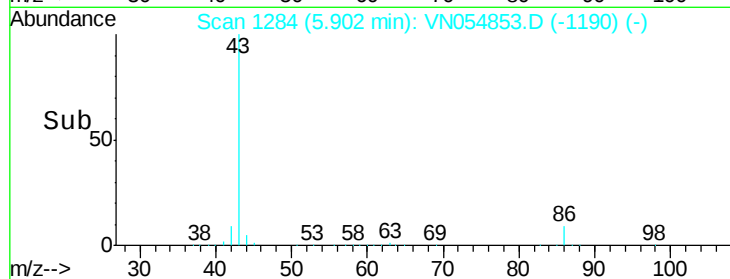
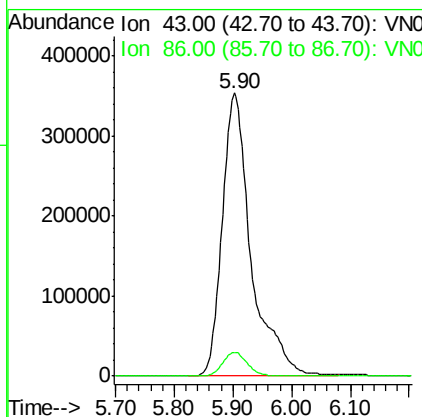
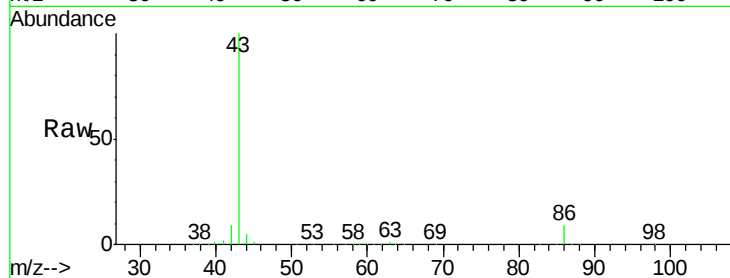
#23
 Vinyl Acetate
 Concen: 115.238 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Tgt Ion: 43 Resp: 1208211
 Ion Ratio Lower Upper
 43 100
 86 8.5 9.1 13.7#

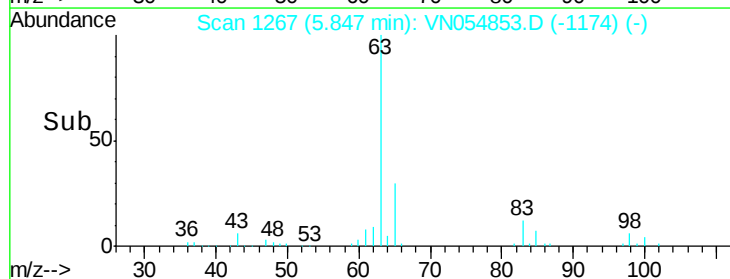
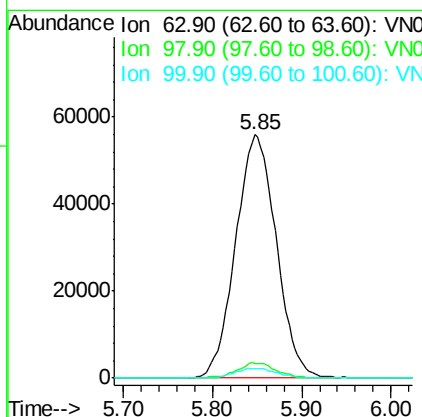
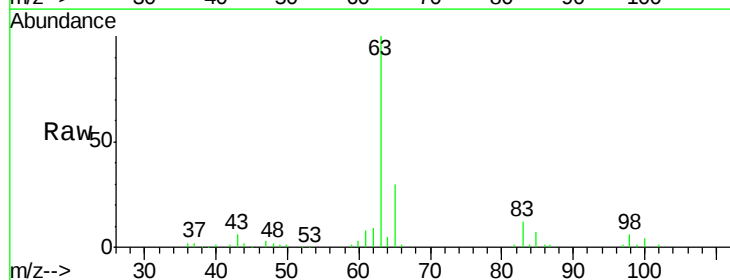
Manual Integrations
 APPROVED

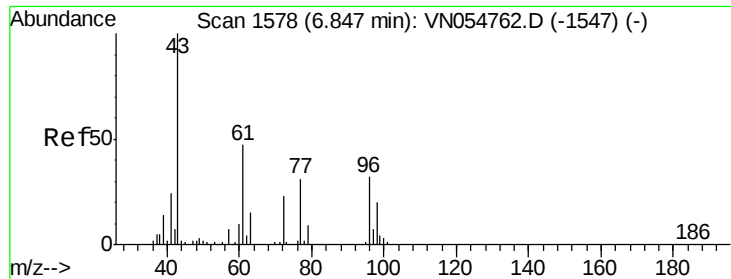
MMDadoda
 4/1/2019 12:49:57 PM



#24
 1,1-Dichloroethane
 Concen: 22.005 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion: 63 Resp: 176850
 Ion Ratio Lower Upper
 63 100
 98 6.1 3.5 10.5
 100 4.1 2.0 6.0





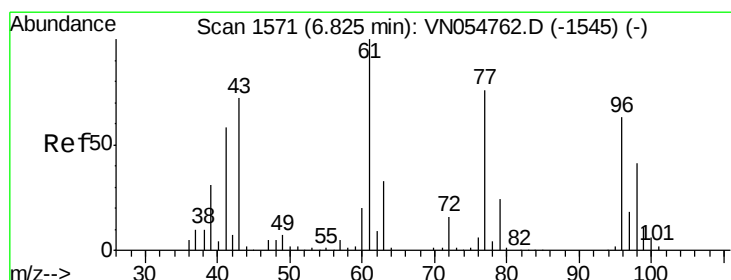
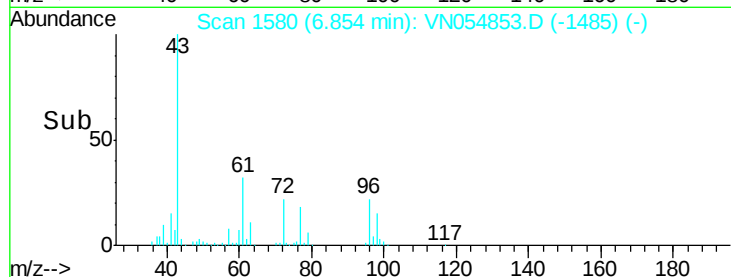
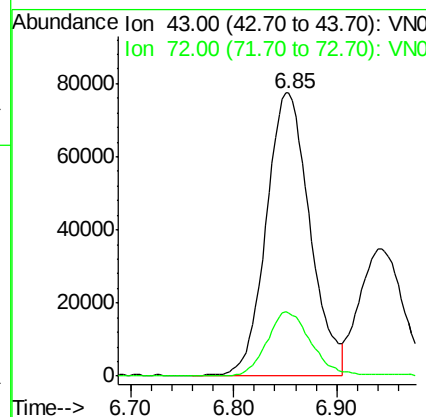
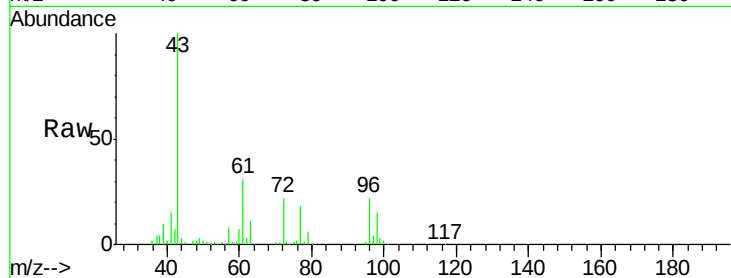
#25
2-Butanone
Concen: 121.399 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion: 43 Resp: 226950
Ion Ratio Lower Upper
43 100
72 22.4 23.0 34.6#

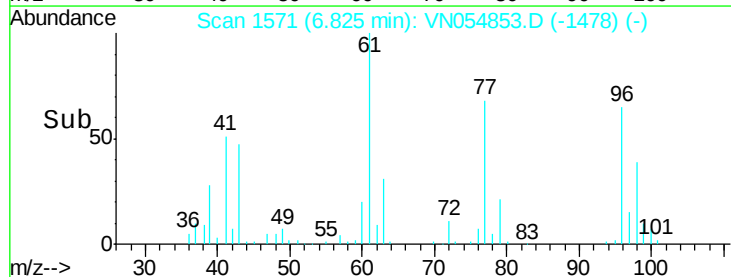
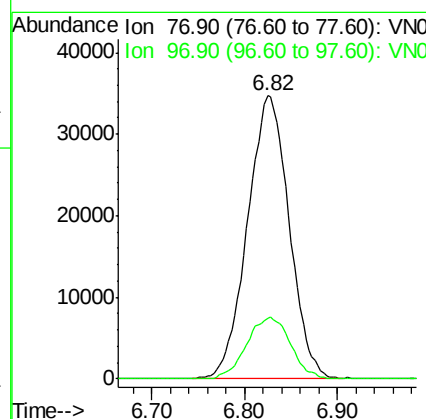
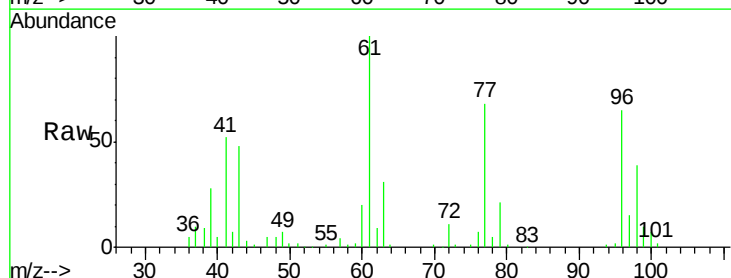
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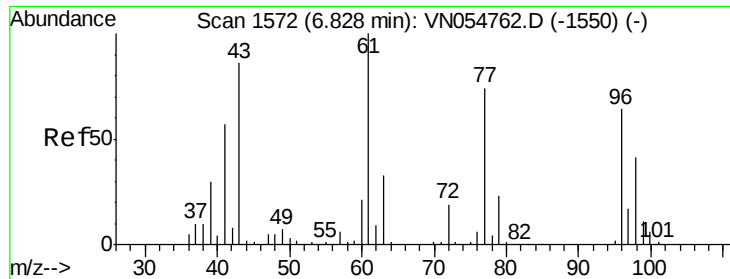
MMDadoda
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#26
2,2-Dichloropropane
Concen: 19.212 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion: 77 Resp: 108221
Ion Ratio Lower Upper
77 100
97 22.8 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.971 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

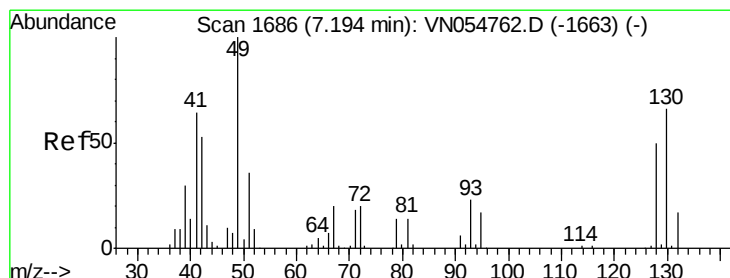
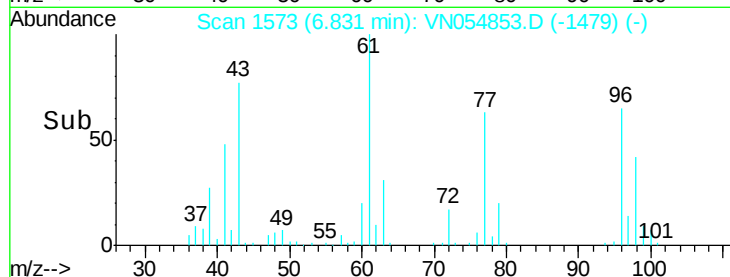
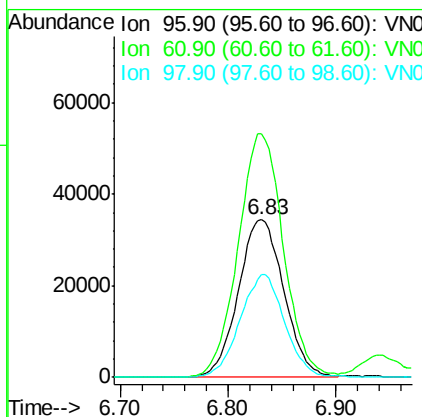
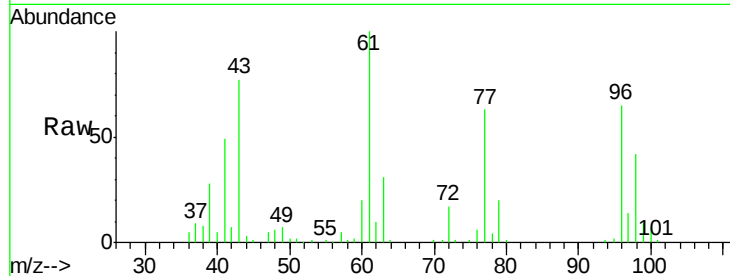
ClientSampleId :

VN0331WBS02

Tgt Ion:	96	Resp:	100820
Ion Ratio	Lower	Upper	
96	100		
61	154.0	0.0	273.0
98	64.2	0.0	130.6

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#28

Bromochloromethane

Concen: 23.884 ug/l

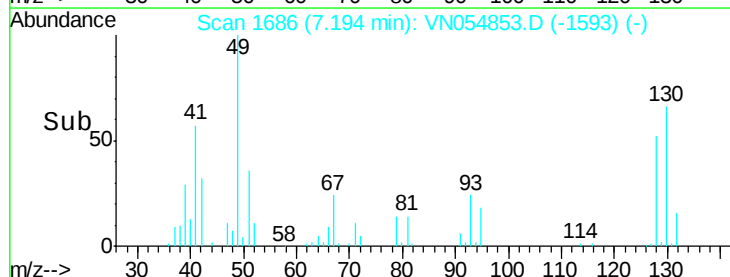
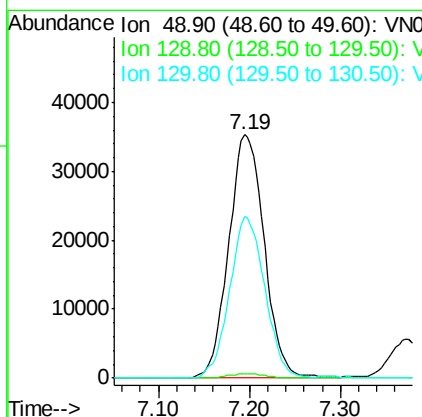
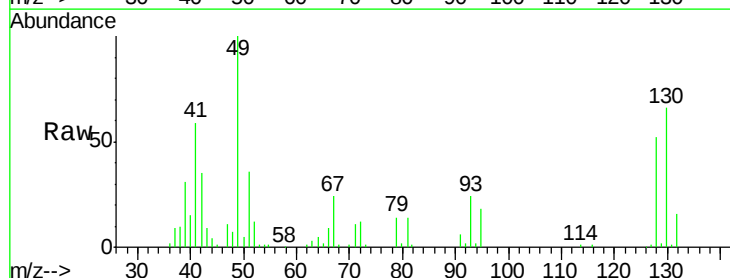
RT: 7.19 min Scan# 1686

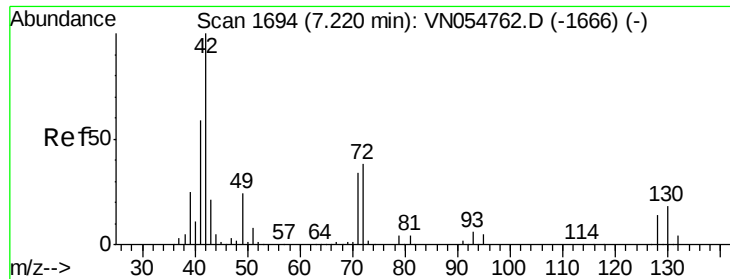
Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	49	Resp:	95982
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	4.6
130	65.5	76.7	115.1#





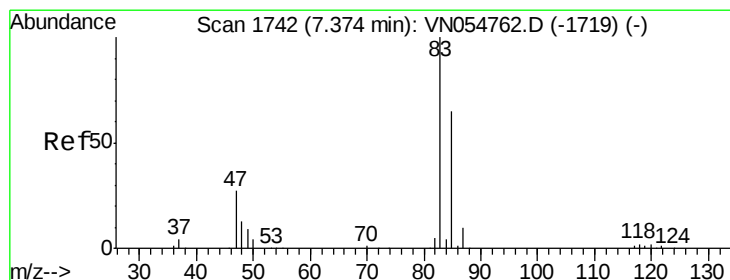
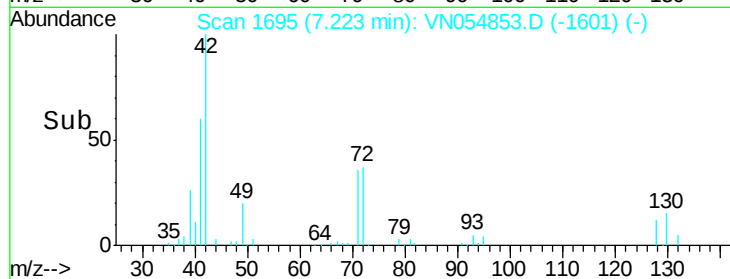
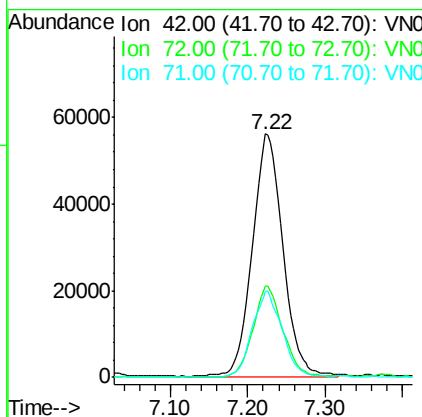
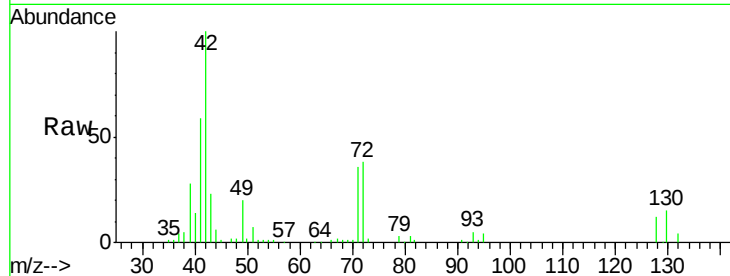
#29
Tetrahydrofuran
Concen: 119.175 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.9	37.8	56.6#
71	35.1	36.2	54.2#

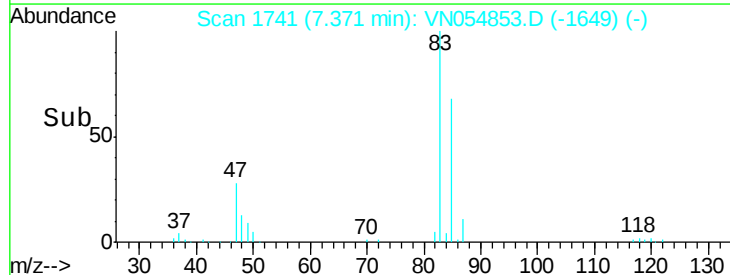
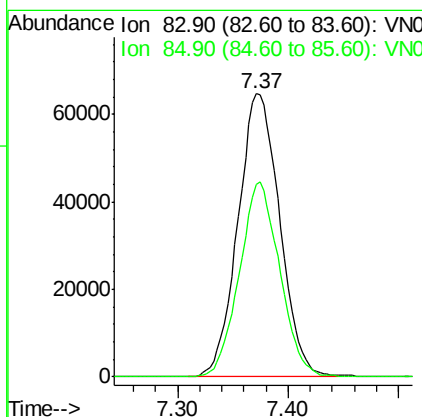
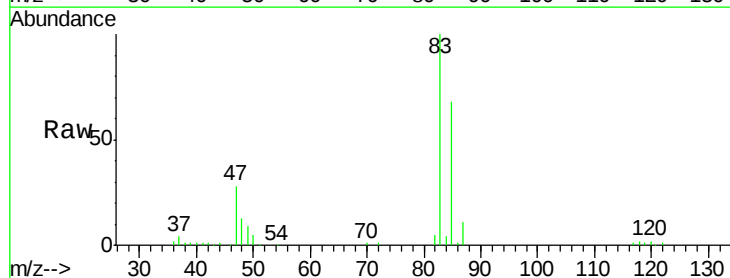
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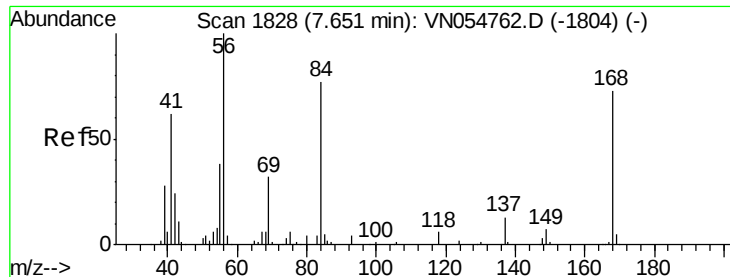
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#30
Chloroform
Concen: 22.153 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.9	52.2	78.4





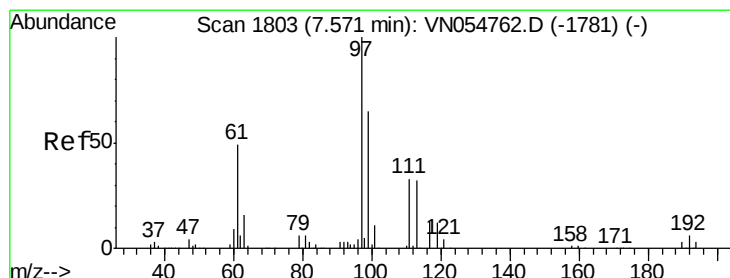
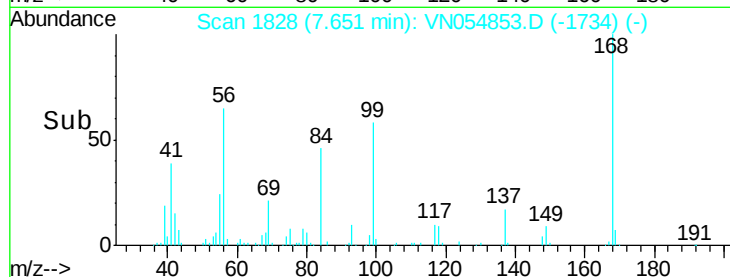
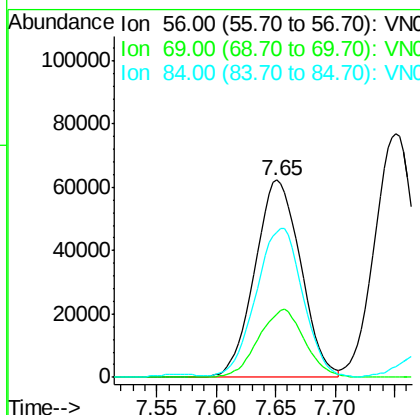
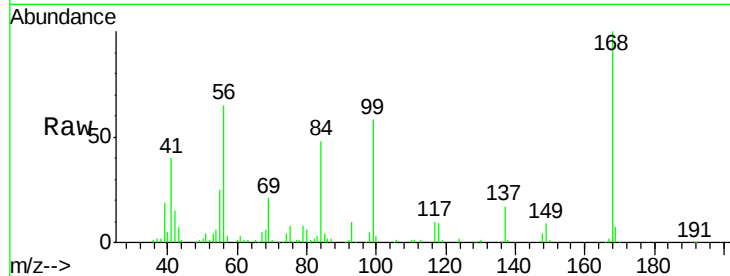
#31
Cyclohexane
Concen: 21.584 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.3	27.8	41.6
84	72.2	74.6	111.8#

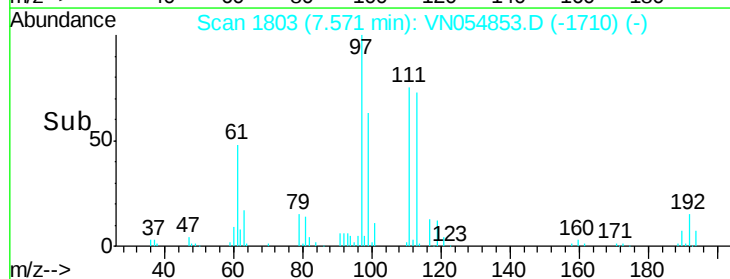
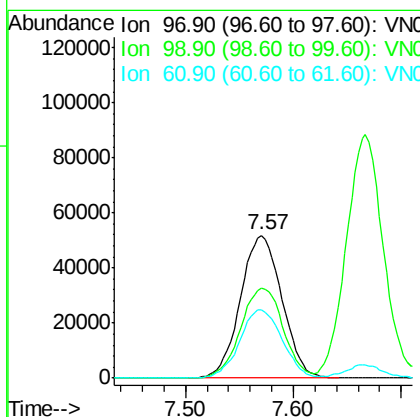
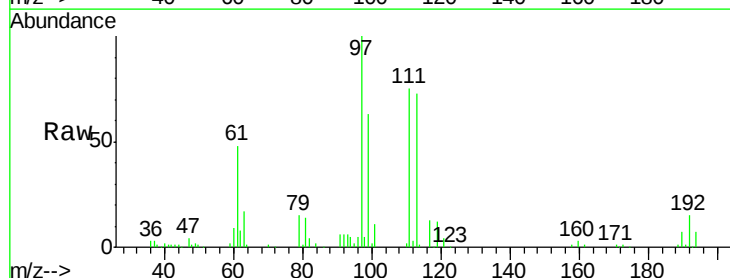
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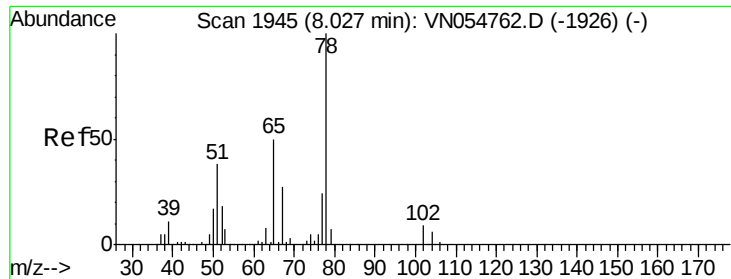
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#32
1,1,1-Trichloroethane
Concen: 21.796 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.5	77.3
61	49.1	33.6	50.4





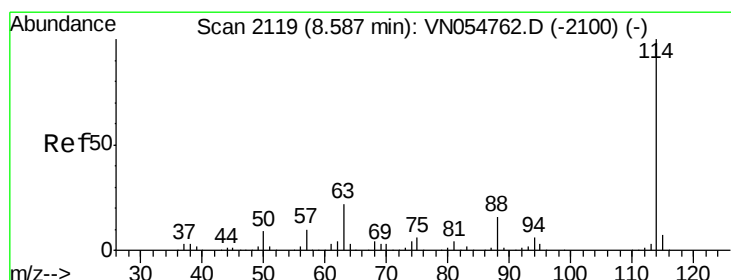
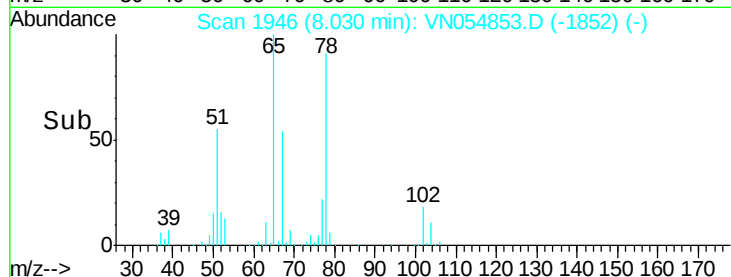
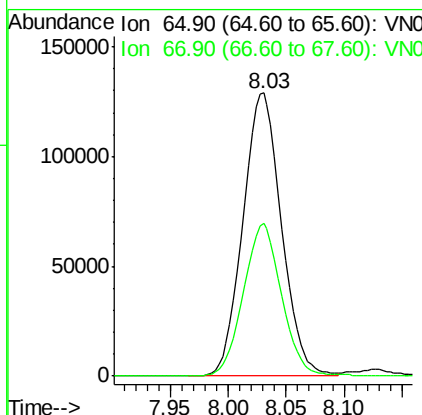
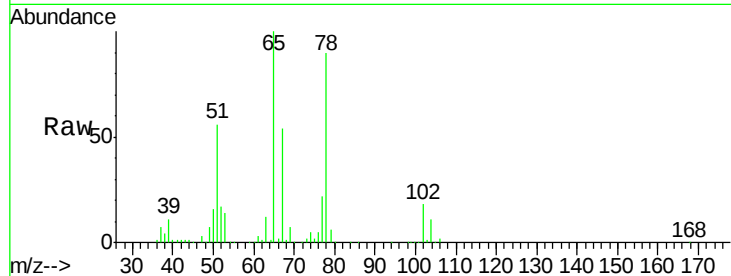
#33
 1,2-Dichloroethane-d4
 Concen: 56.443 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	299346		
67	53.3	0.0	104.6	

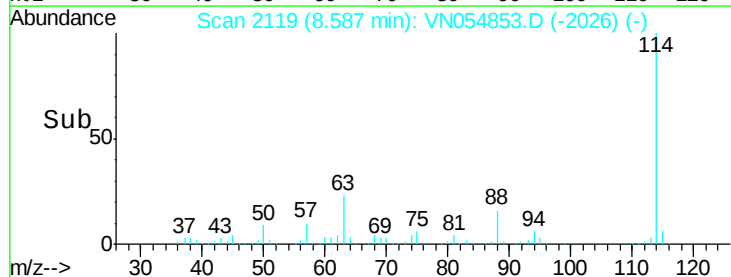
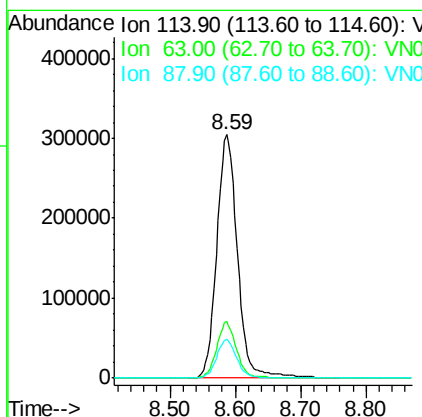
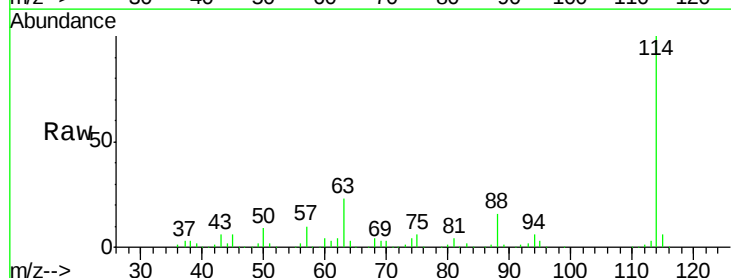
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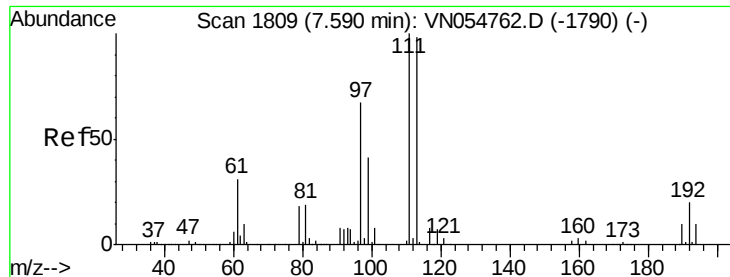
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	672511		
63	23.1	0.0	35.2	
88	15.7	0.0	30.2	





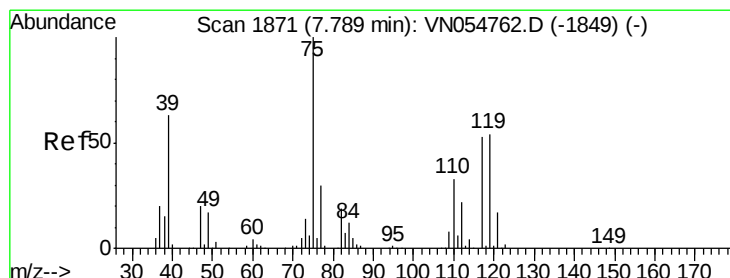
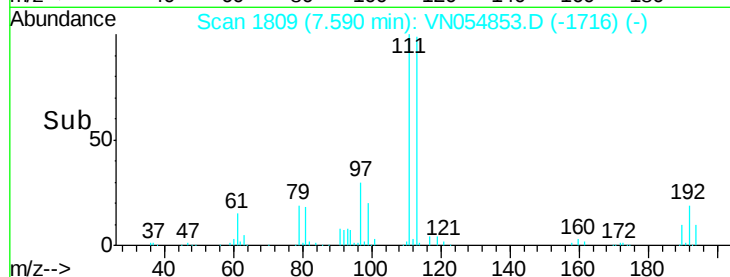
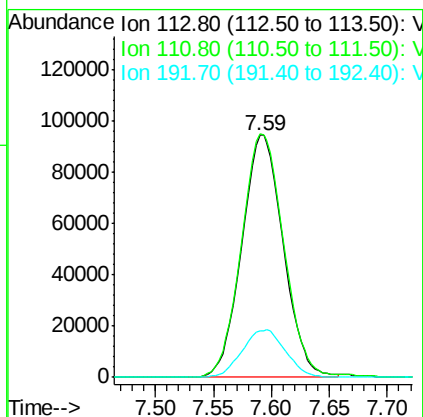
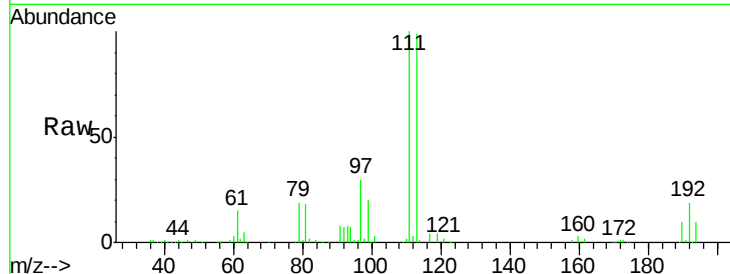
#35
Dibromofluoromethane
Concen: 52.507 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	235417		
111	103.2	82.2	123.4	
192	20.4	19.2	28.8	

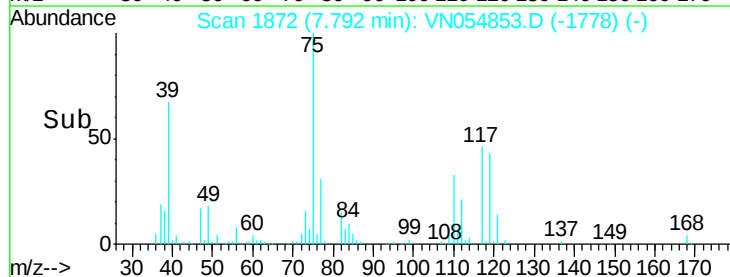
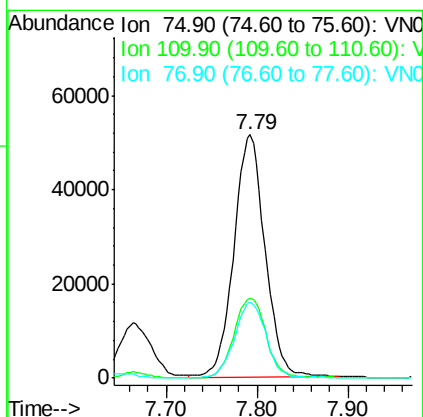
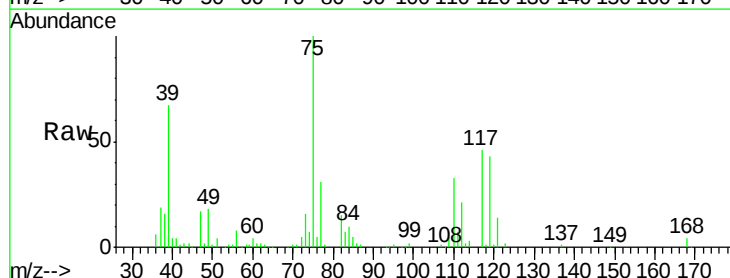
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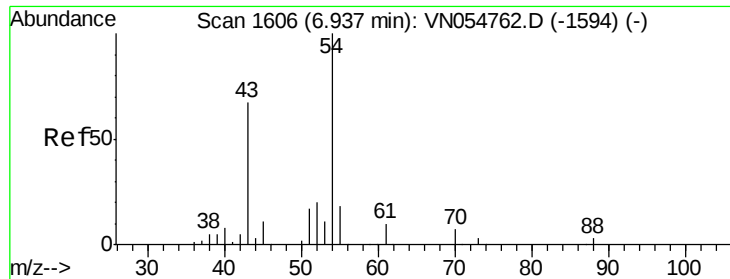
MMDadoda
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#36
1,1-Dichloropropene
Concen: 19.515 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	122288		
110	34.2	19.1	57.5	
77	31.8	25.0	37.4	





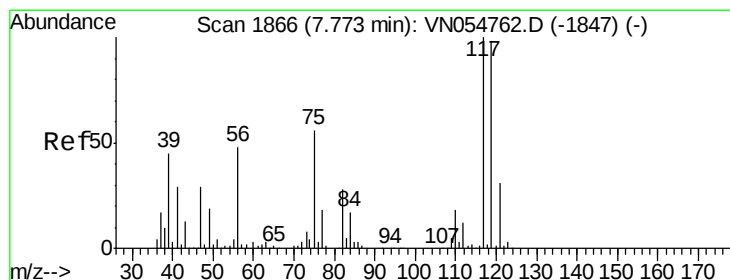
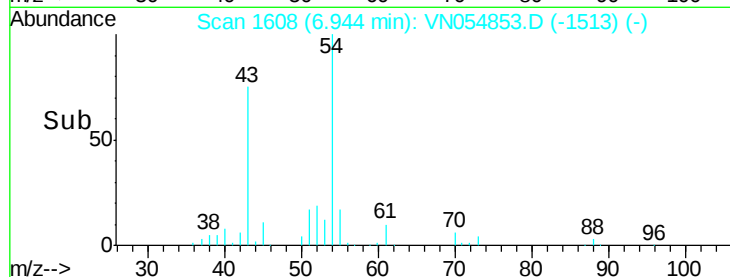
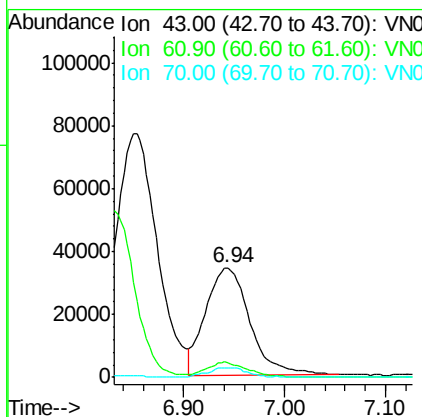
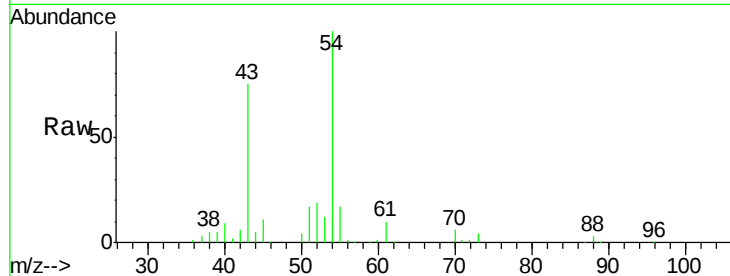
#37
Ethyl Acetate
Concen: 22.853 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.8	17.6
70	7.9	8.4	12.6

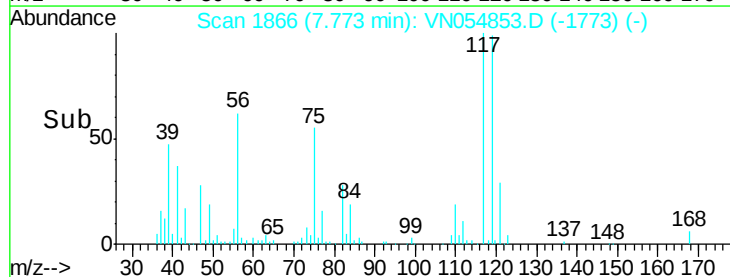
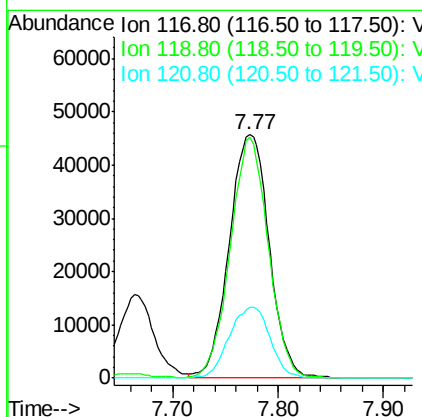
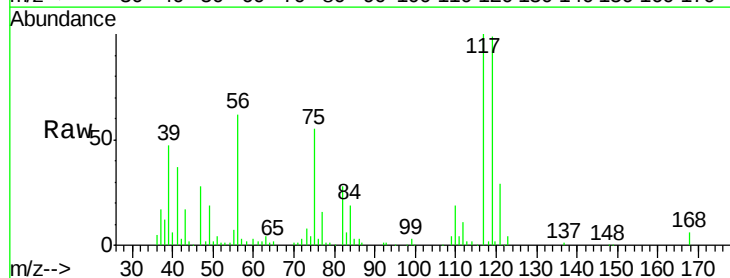
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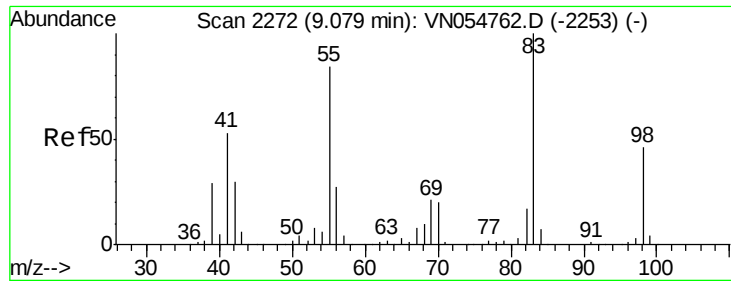
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#38
Carbon Tetrachloride
Concen: 19.745 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.2	76.3	114.5
121	29.1	24.6	36.8





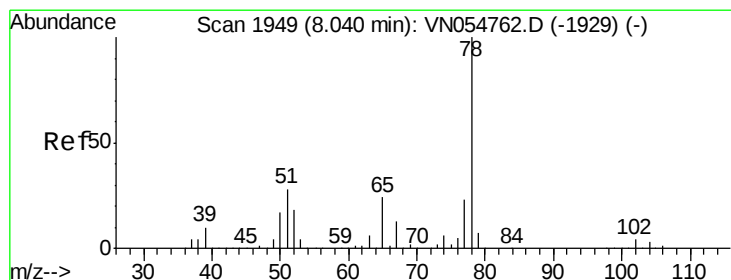
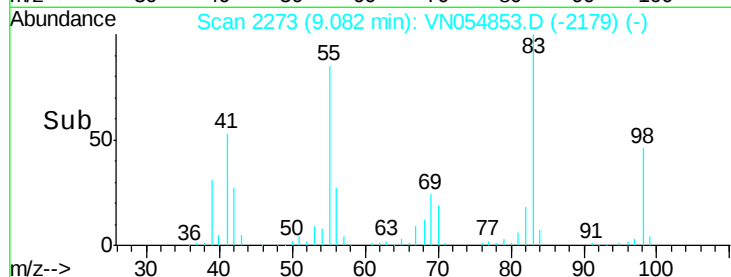
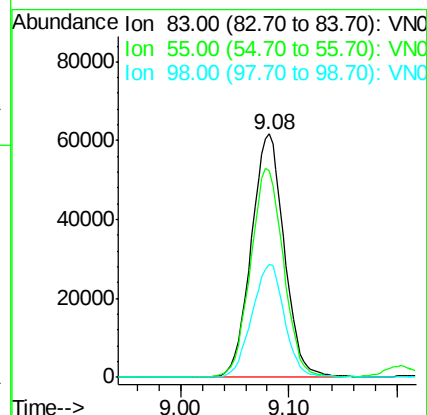
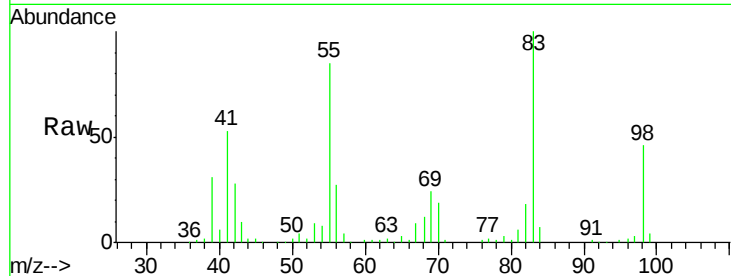
#39
Methylcyclohexane
Concen: 18.993 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	84.7	56.6	84.8
98	46.3	38.4	57.6

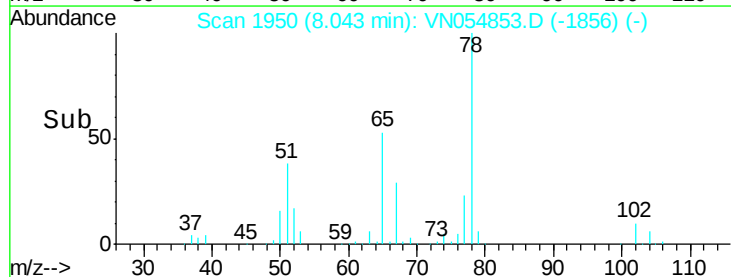
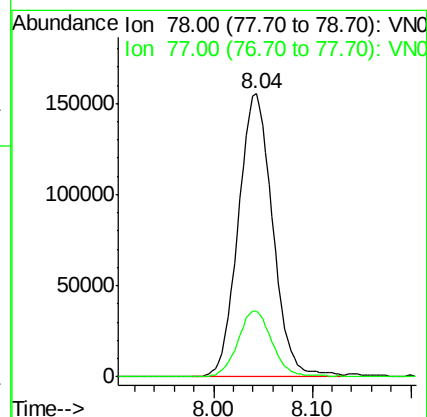
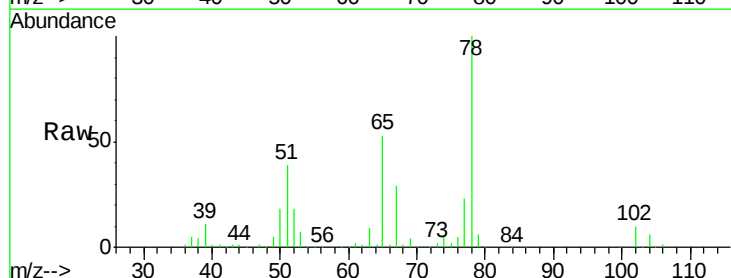
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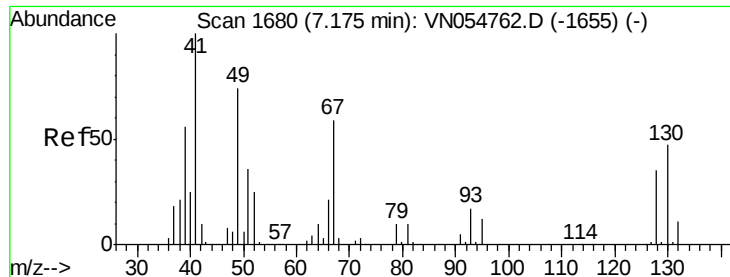
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#40
Benzene
Concen: 20.992 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.1	28.7





#41

Methacrylonitrile

Concen: 23.085 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampled :

VN0331WBS02

Tgt Ion: 41 Resp: 59594
Ion Ratio Lower Upper

41 100

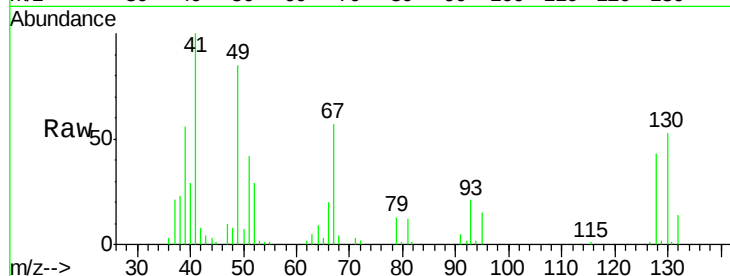
39 55.3 46.8 70.2

67 65.2 67.0 100.4#

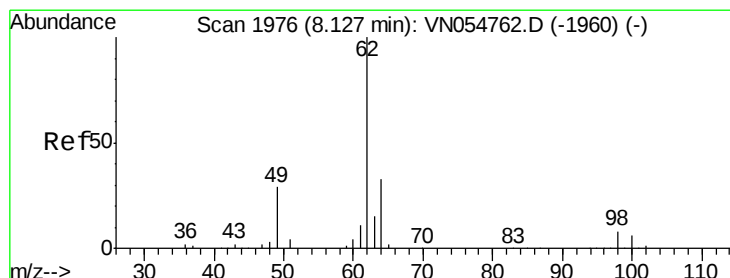
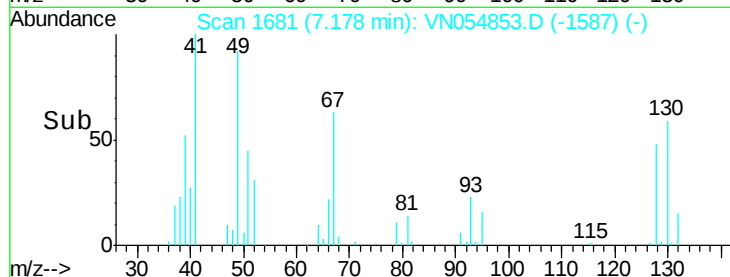
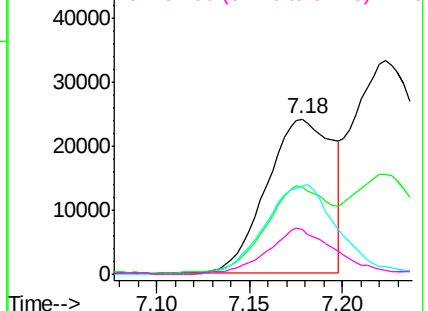
52 30.6 26.5 39.7

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



#42

1,2-Dichloroethane

Concen: 20.895 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

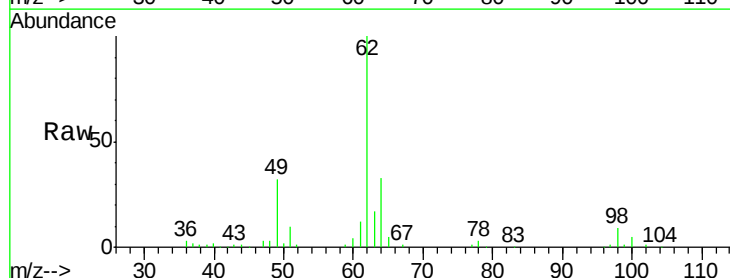
Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

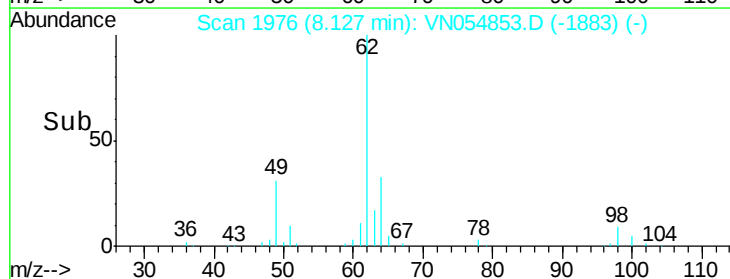
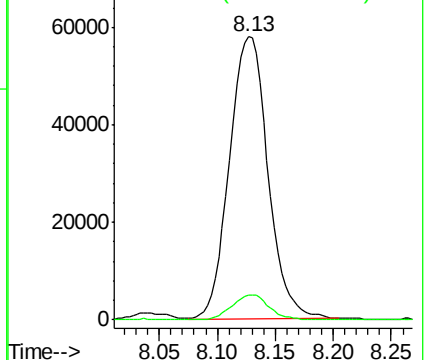
Tgt Ion: 62 Resp: 133776
Ion Ratio Lower Upper

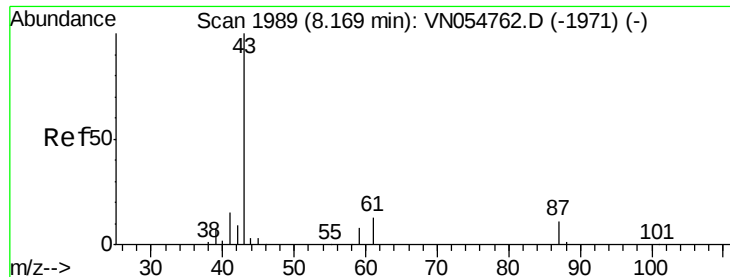
62 100

98 8.5 0.0 18.4



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





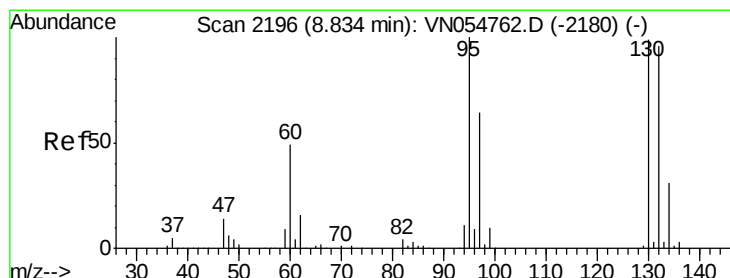
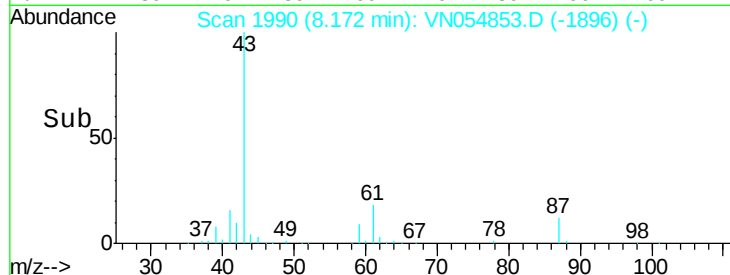
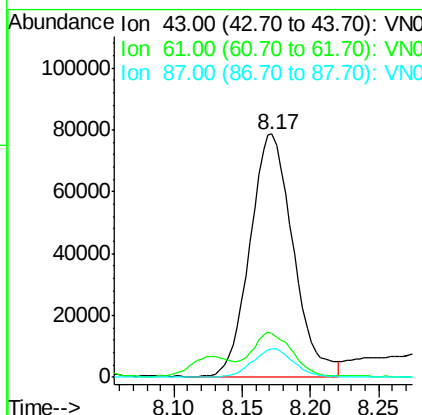
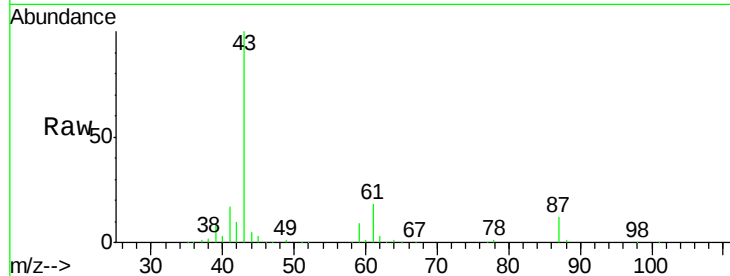
#43
Isopropyl Acetate
Concen: 23.118 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.5	15.8	23.8
87	11.1	12.0	18.0#

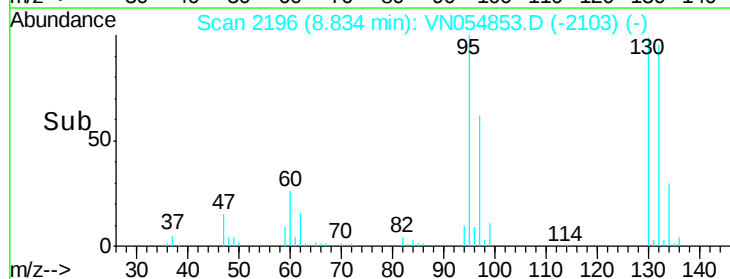
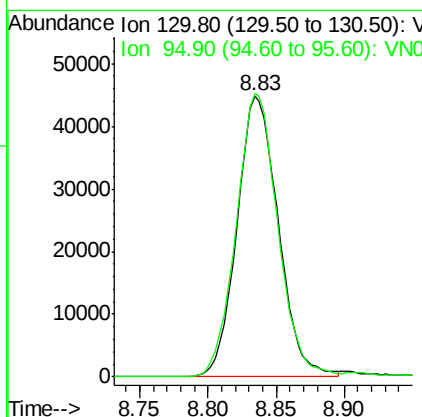
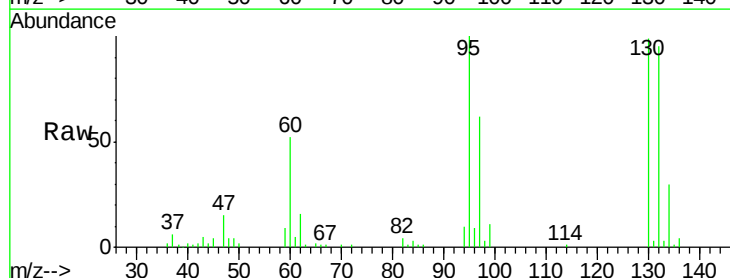
Manual Integrations
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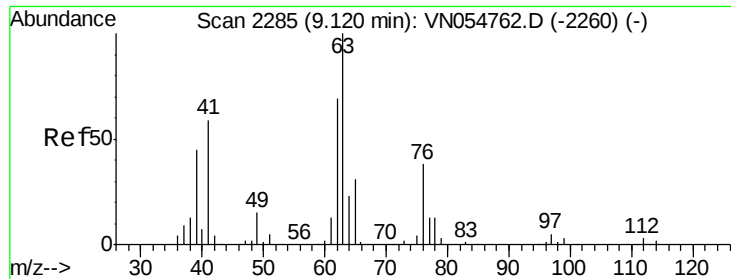
MMDadoda
4/1/2019 12:49:57 PM



#44
Trichloroethene
Concen: 20.237 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	185.2





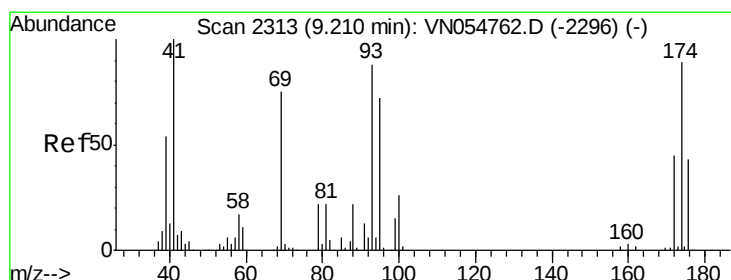
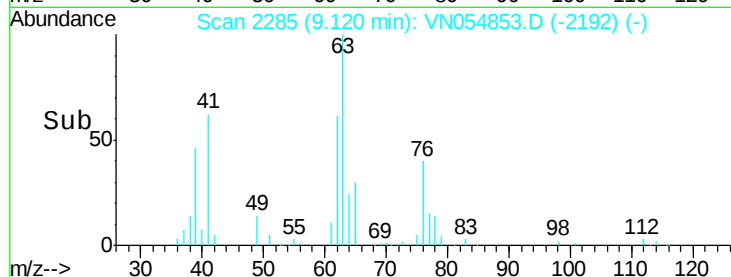
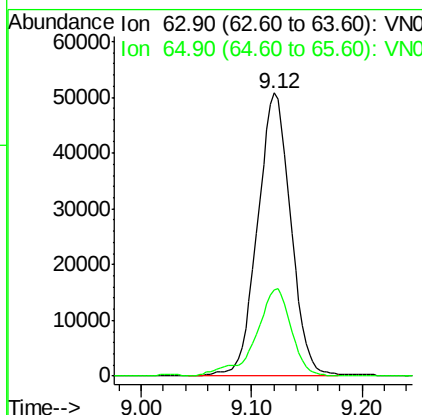
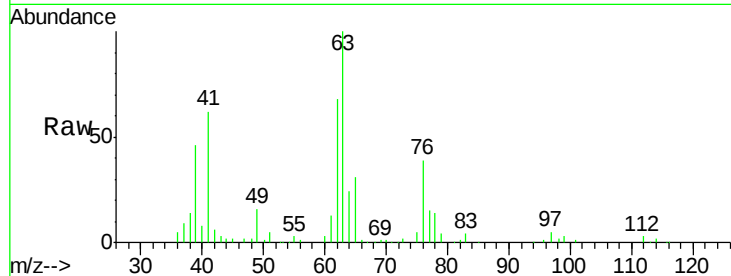
#45
 1,2-Dichloropropane
 Concen: 20.710 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Tgt Ion: 63 Resp: 105885
 Ion Ratio Lower Upper
 63 100
 65 30.6 25.0 37.6

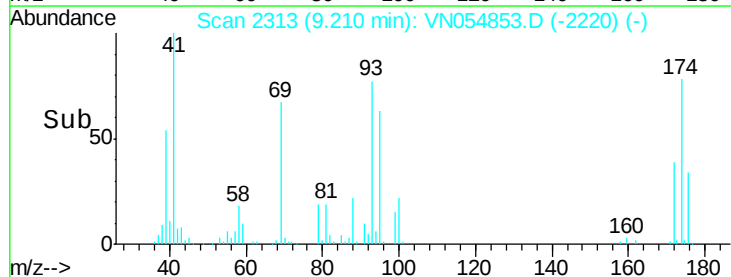
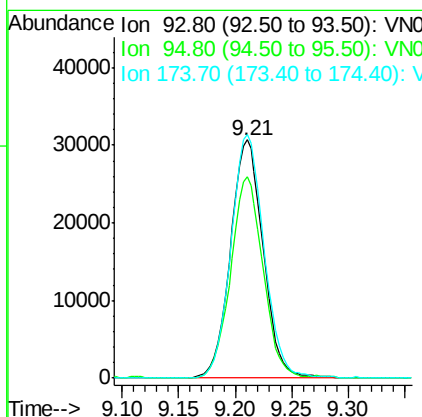
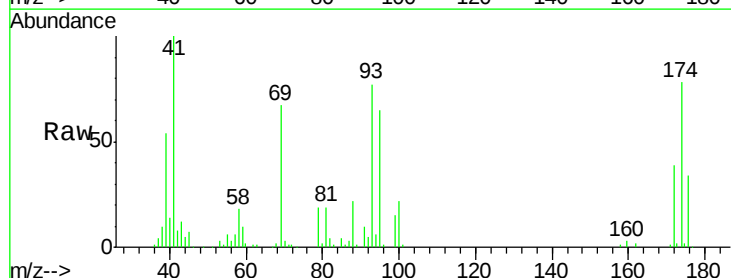
Manual Integrations
 APPROVED

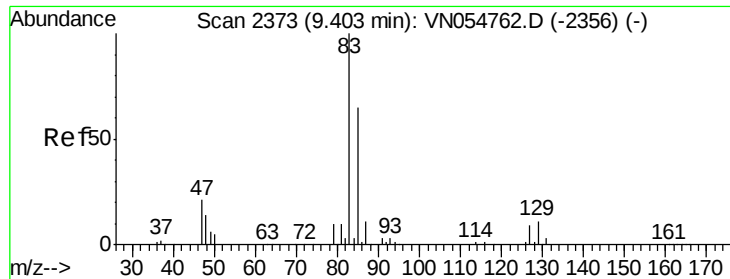
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#46
 Dibromomethane
 Concen: 21.461 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion: 93 Resp: 61726
 Ion Ratio Lower Upper
 93 100
 95 83.5 66.7 100.1
 174 103.5 98.5 147.7





#47

Bromodichloromethane

Concen: 21.496 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

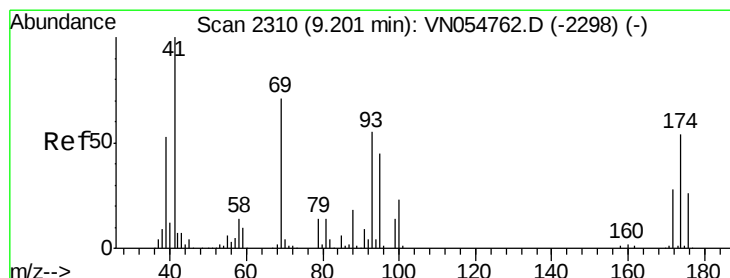
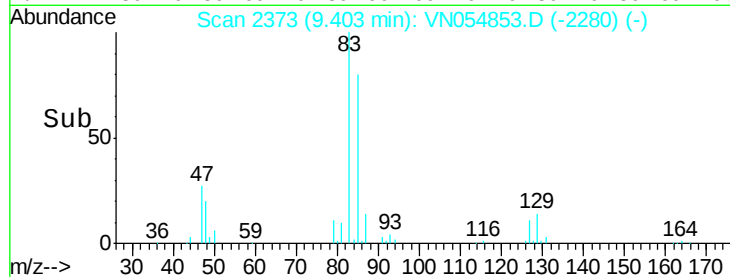
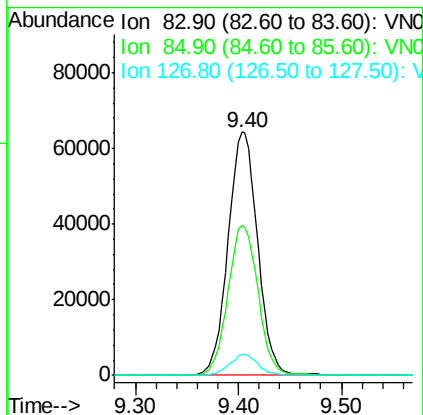
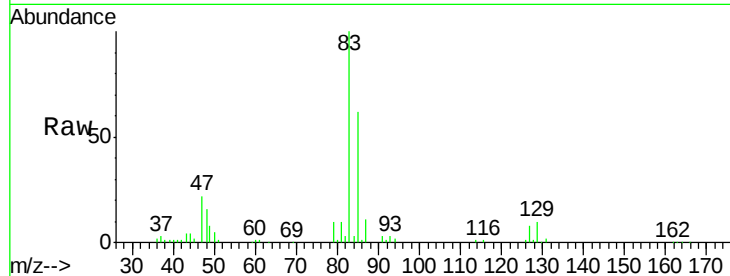
ClientSampleId :

VN0331WBS02

Tgt Ion:	83	Resp:	128493
Ion Ratio	Lower	Upper	
83	100		
85	61.6	52.8	79.2
127	8.4	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.478 ug/l

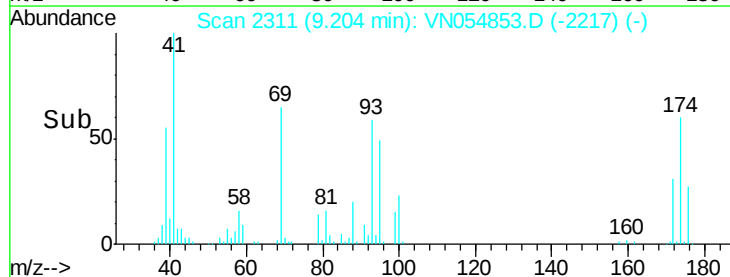
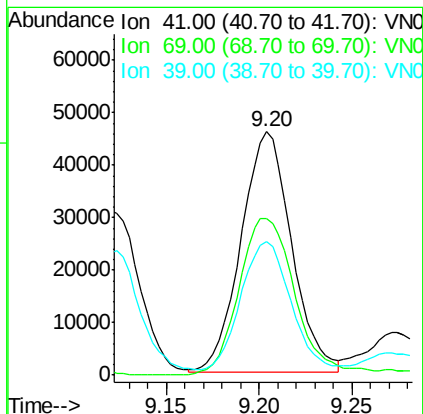
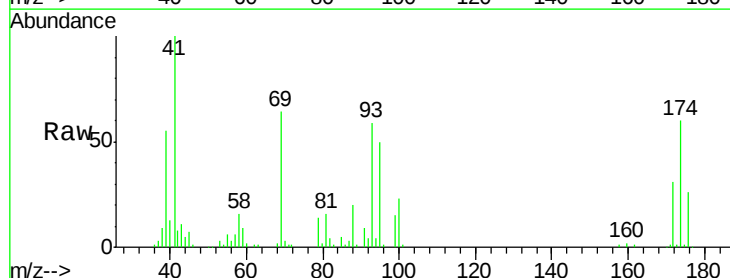
RT: 9.20 min Scan# 2311

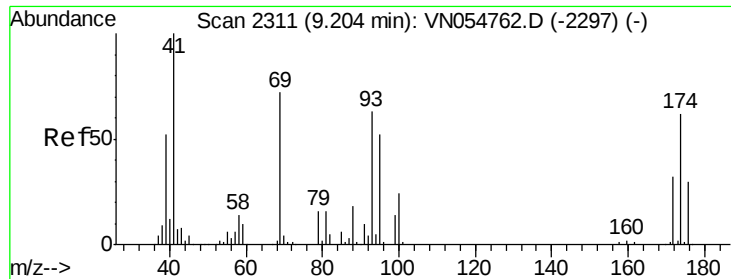
Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	41	Resp:	86936
Ion Ratio	Lower	Upper	
41	100		
69	72.4	72.6	108.8#
39	55.4	47.5	71.3





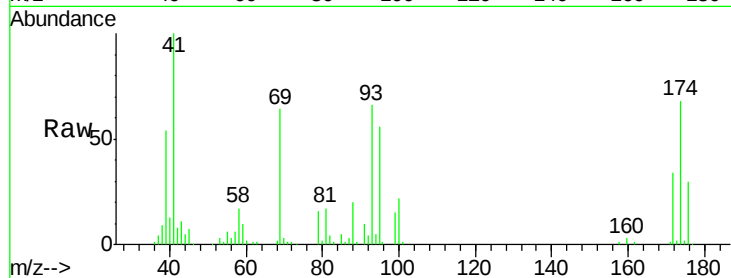
#49
1,4-Dioxane
Concen: 477.974 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	44.9	24.1	36.1#
58	82.3	50.8	76.2#

Manual Integrations
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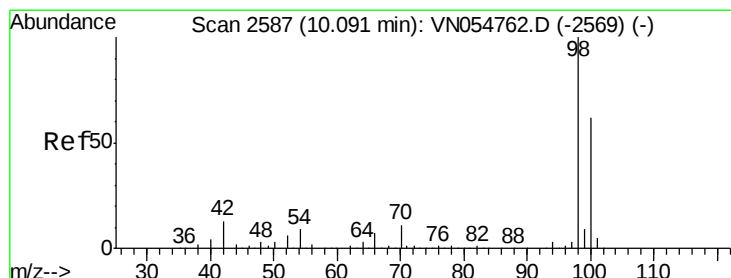
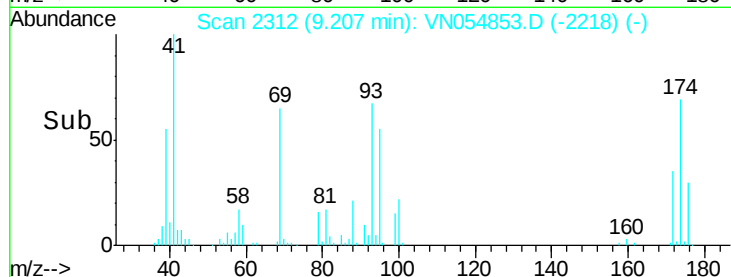
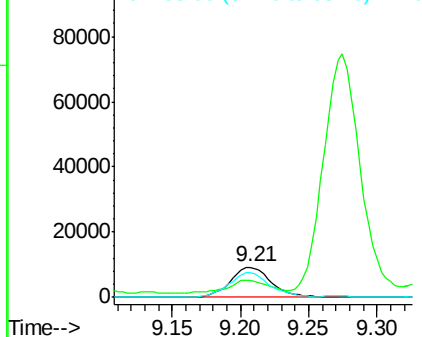


Abundance

Ion 88.00 (87.70 to 88.70): VN054853.D (-2218) (-)

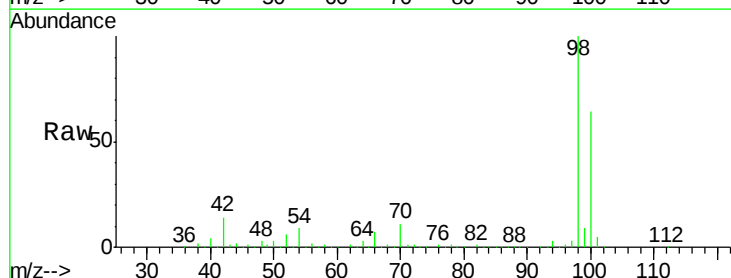
Ion 43.00 (42.70 to 43.70): VN054853.D (-2218) (-)

Ion 58.00 (57.70 to 58.70): VN054853.D (-2218) (-)



#50
Toluene-d8
Concen: 51.664 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

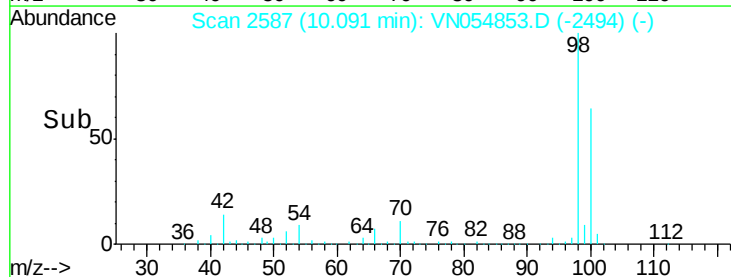
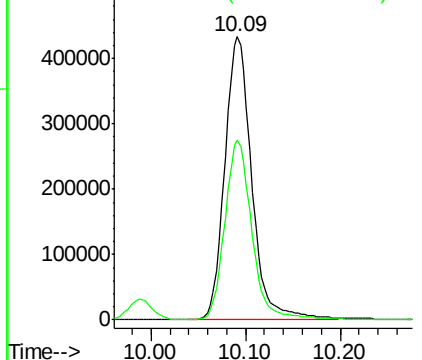
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.2	76.8

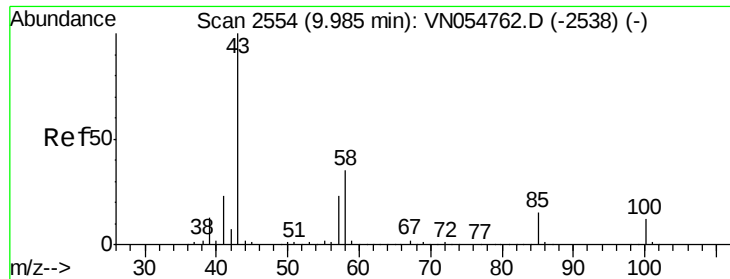


Abundance

Ion 98.00 (97.70 to 98.70): VN054853.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN054853.D (-2494) (-)





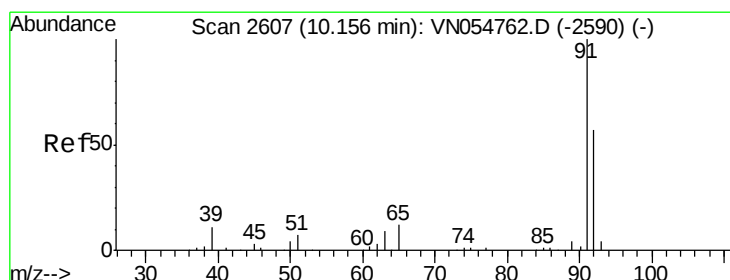
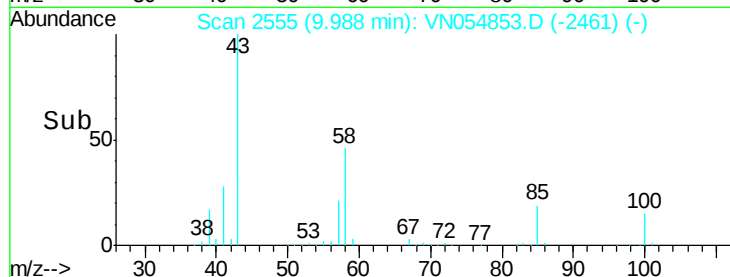
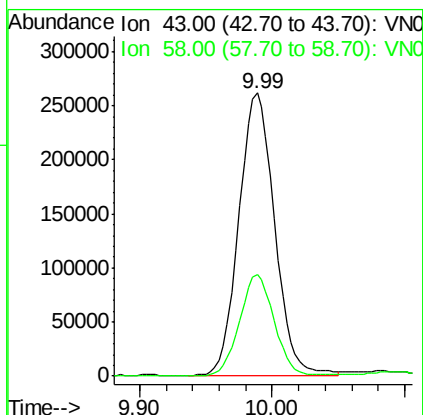
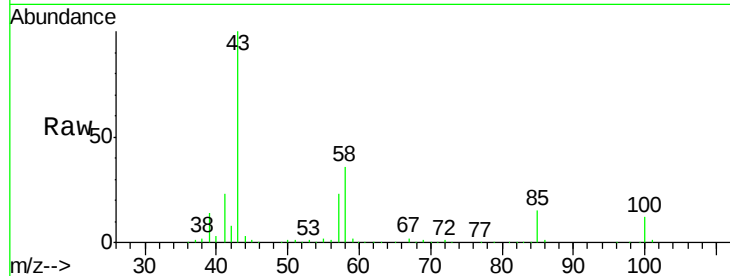
#51
4-Methyl-2-Pentanone
Concen: 116.347 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion: 43 Resp: 488432
Ion Ratio Lower Upper
43 100
58 35.1 31.8 47.6

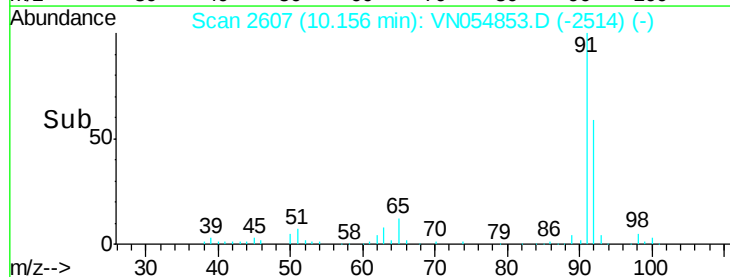
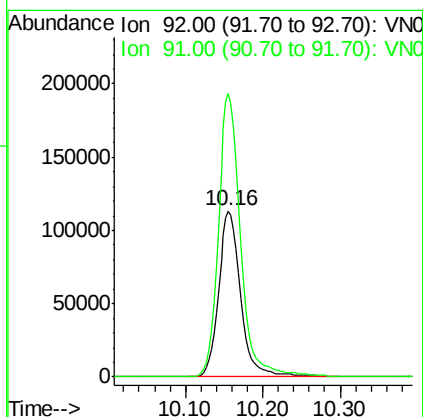
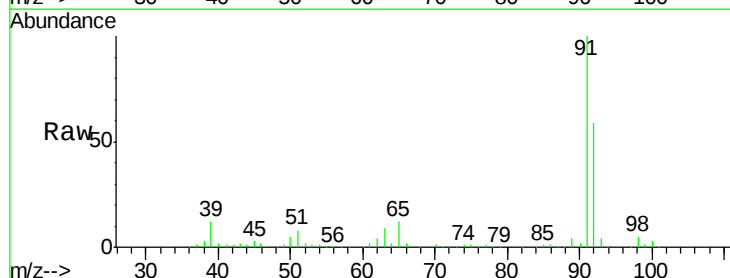
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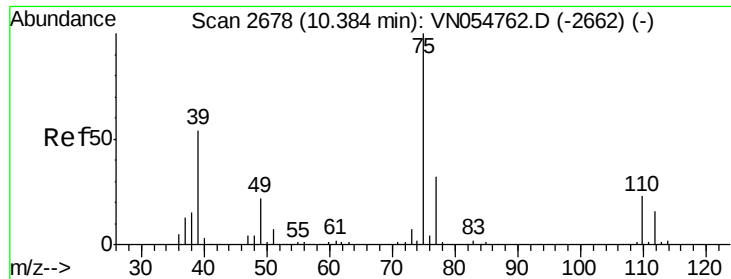
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#52
Toluene
Concen: 21.215 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion: 92 Resp: 226360
Ion Ratio Lower Upper
92 100
91 171.2 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 20.060 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampled :

VN0331WBS02

Tgt Ion: 75 Resp: 112797

Ion Ratio Lower Upper

75 100

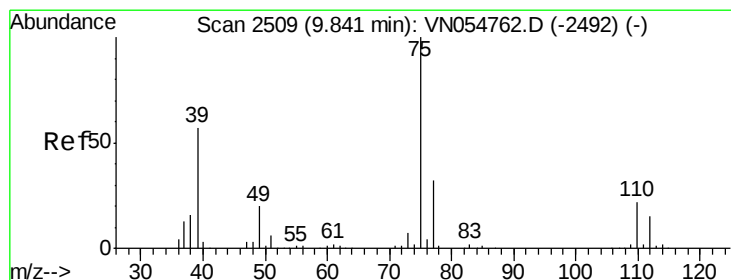
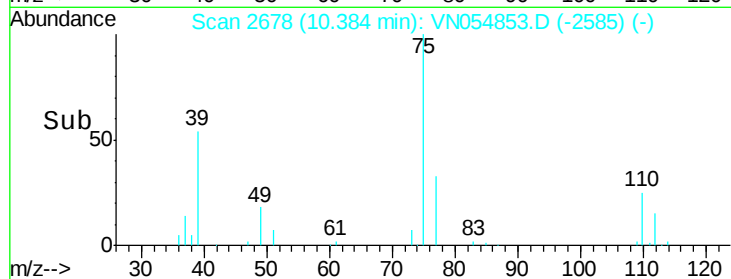
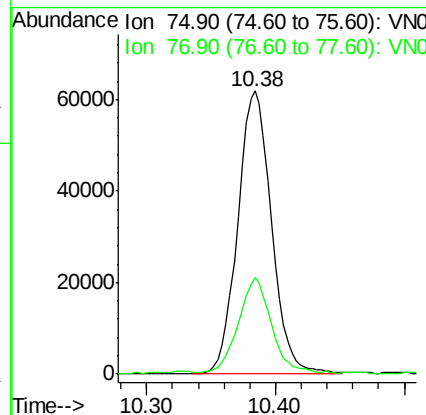
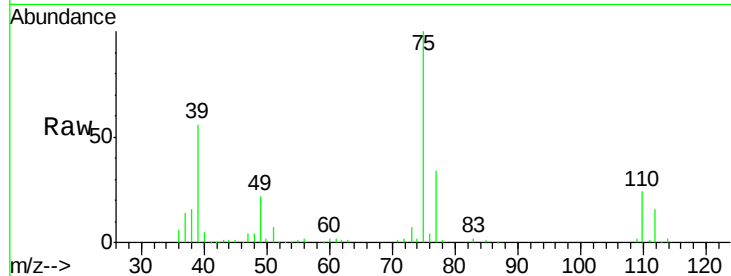
77 33.5 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.760 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

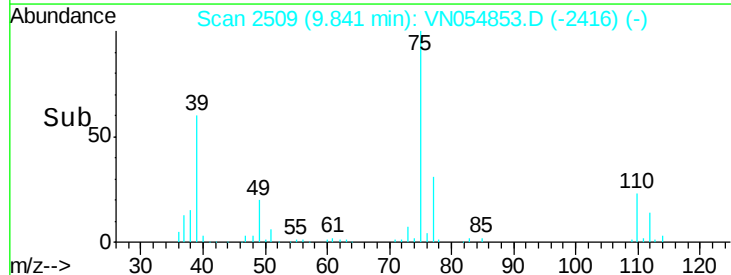
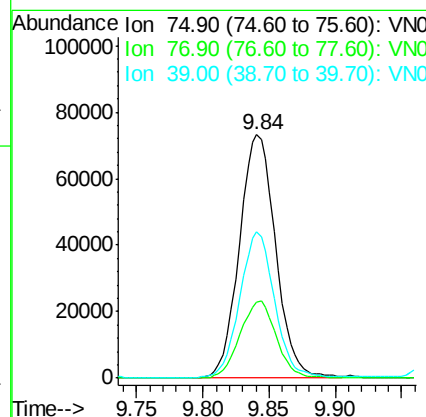
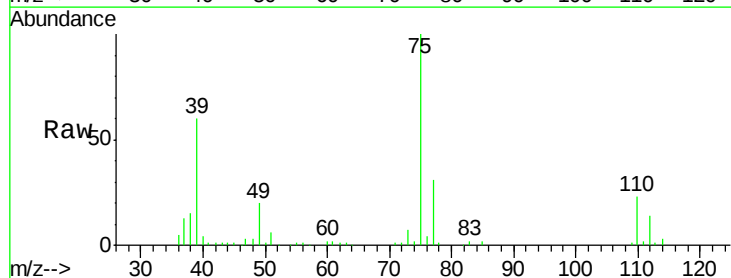
Tgt Ion: 75 Resp: 139439

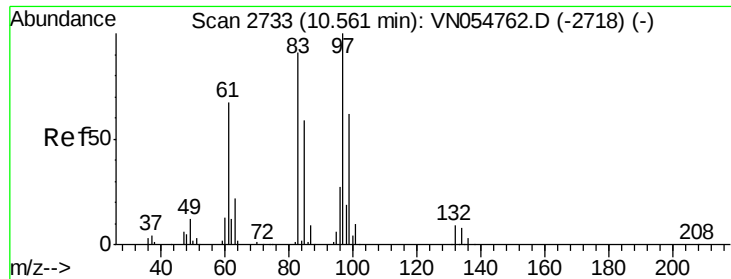
Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.0

39 59.7 37.2 55.8#





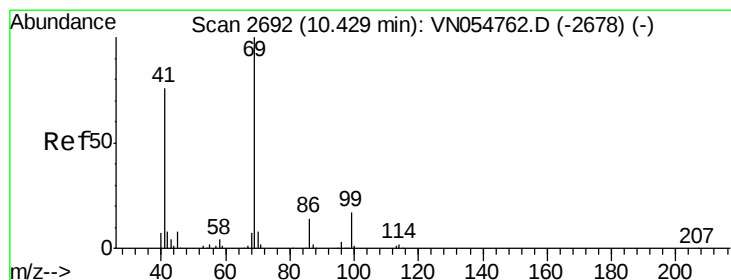
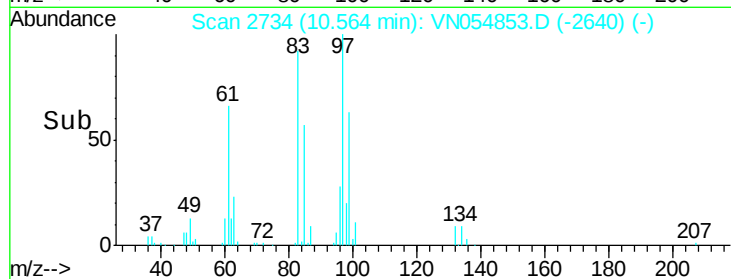
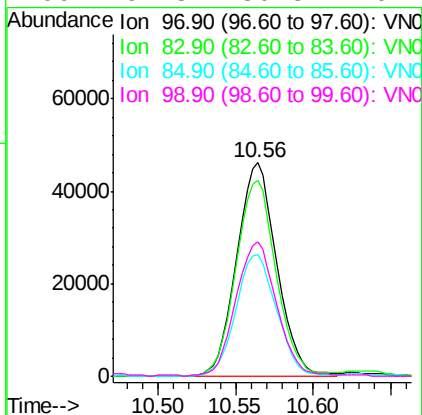
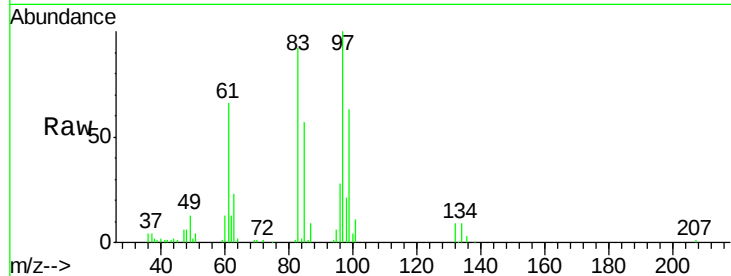
#55
 1,1,2-Trichloroethane
 Concen: 20.929 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	92.0	66.6	100.0
85	56.7	44.4	66.6
99	62.8	50.8	76.2

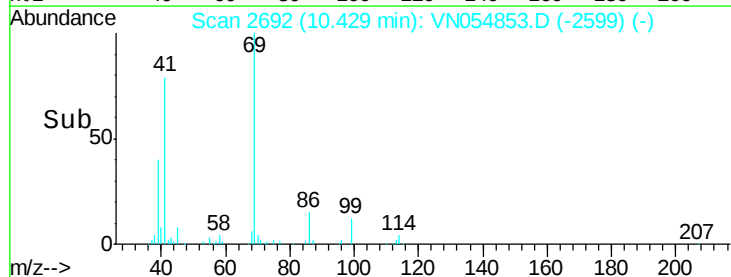
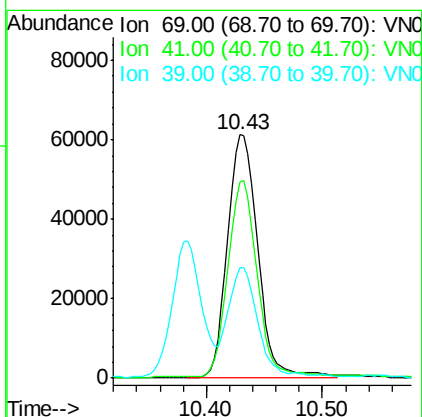
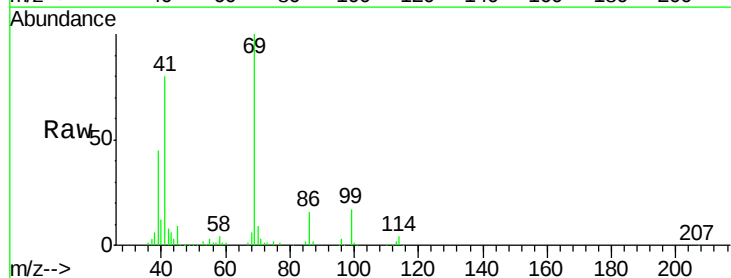
Manual Integrations
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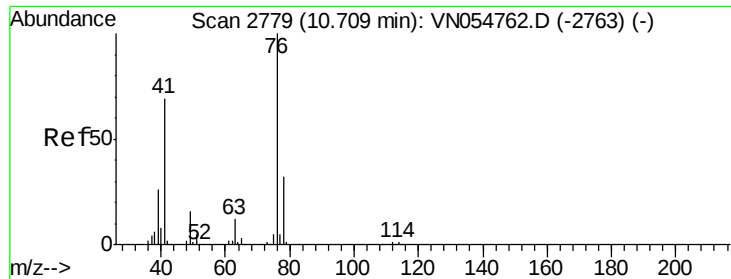
MMDadoda
 4/1/2019 12:49:57 PM



#56
 Ethyl methacrylate
 Concen: 21.393 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.4	49.4	74.2#
39	41.8	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.607 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampled :

VN0331WBS02

Tgt Ion: 76 Resp: 147376

Ion Ratio Lower Upper

76 100

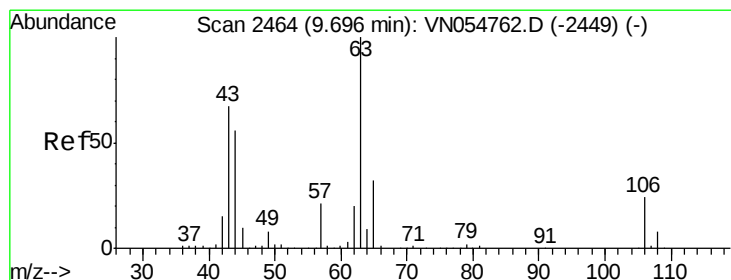
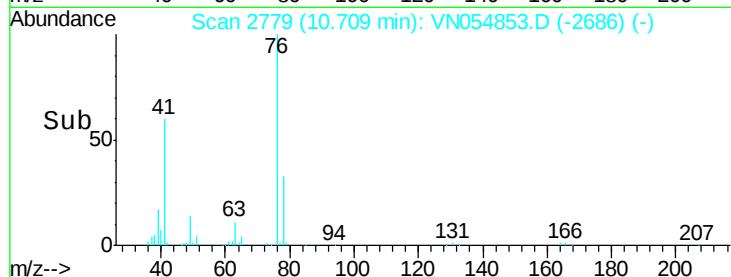
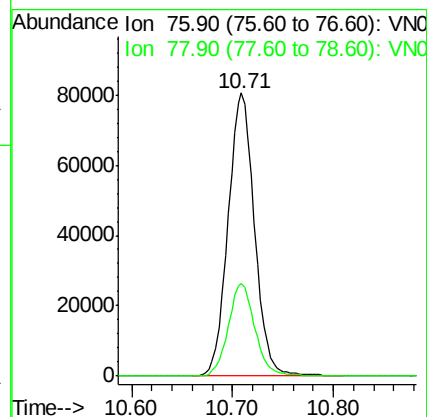
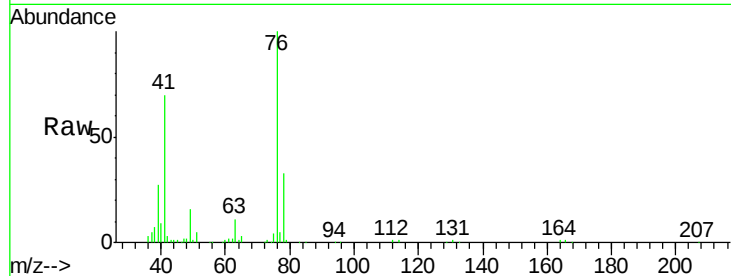
78 33.1 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 100.909 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054853.D

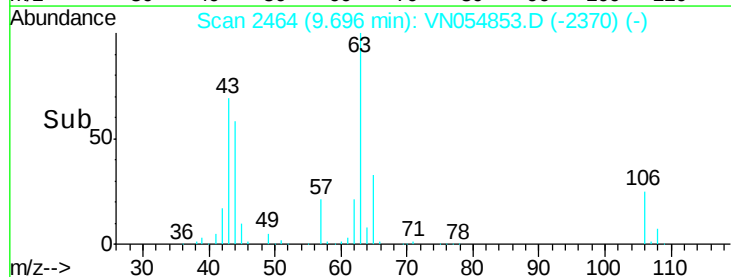
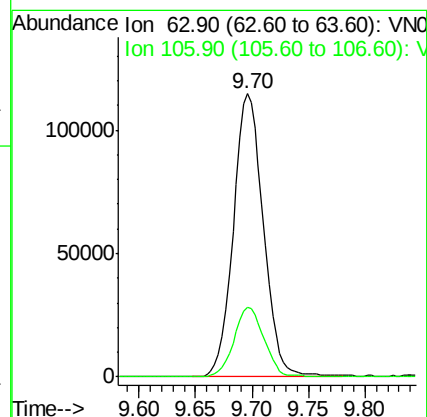
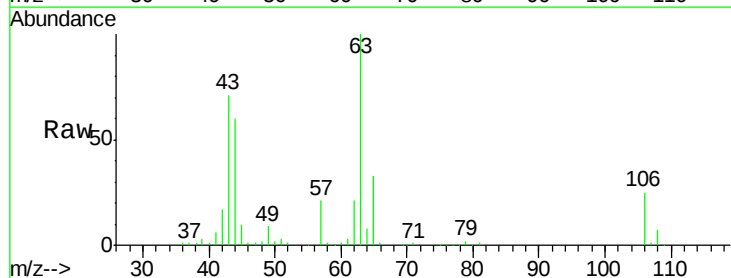
Acq: 31 Mar 2019 16:25

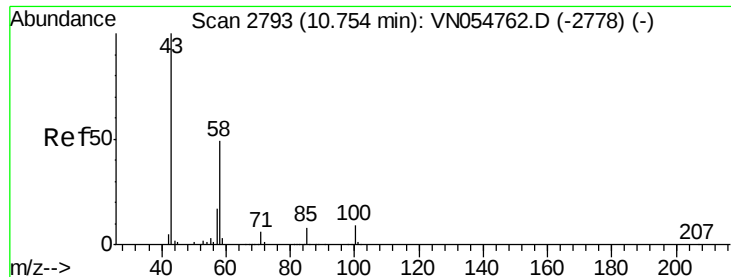
Tgt Ion: 63 Resp: 211779

Ion Ratio Lower Upper

63 100

106 24.7 24.4 36.6





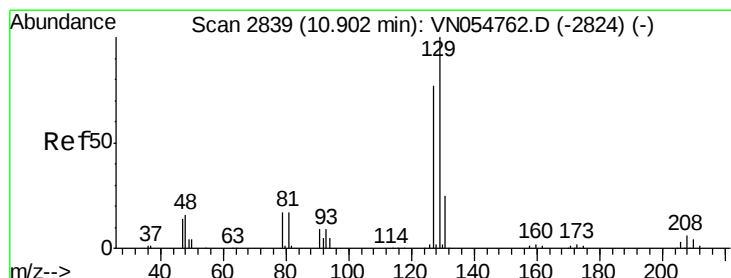
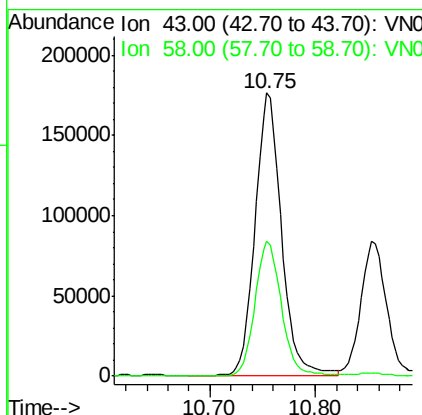
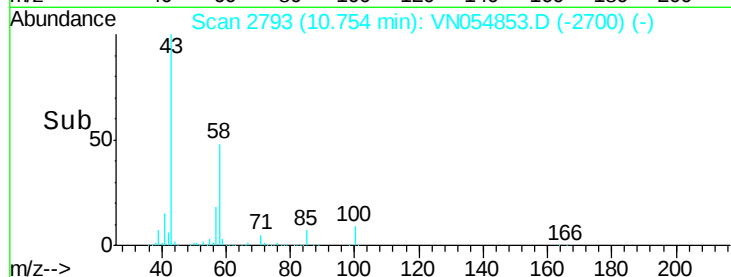
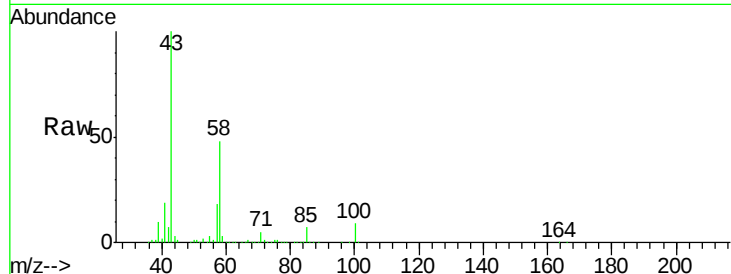
#59
2-Hexanone
Concen: 114.119 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion: 43 Resp: 306687
Ion Ratio Lower Upper
43 100
58 48.1 28.0 83.9

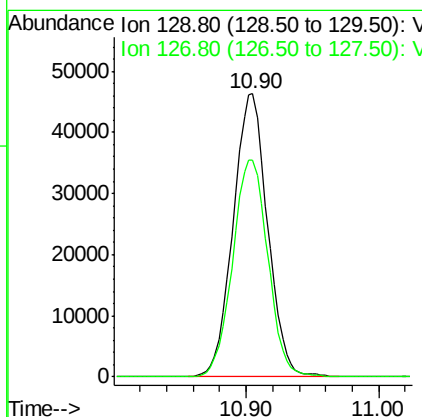
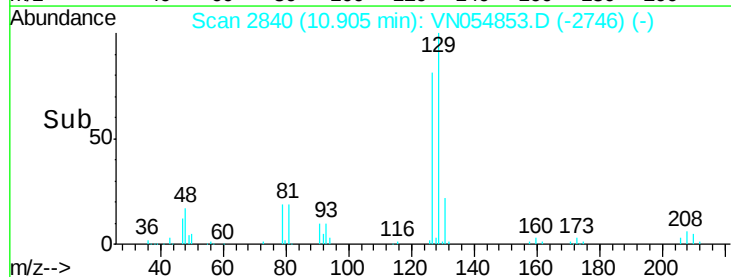
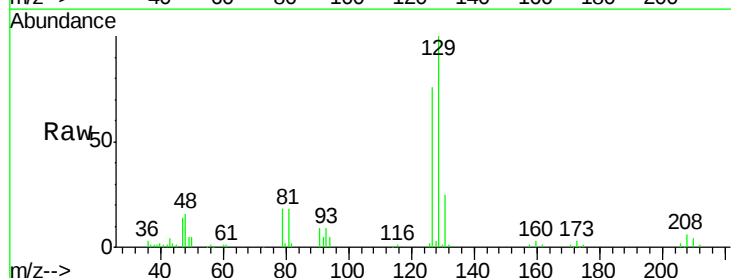
Manual Integrations
APPROVED

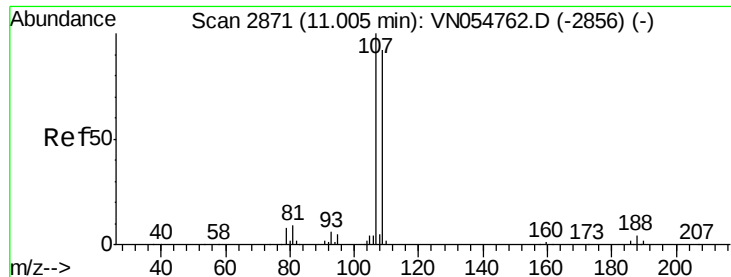
MMDadoda
4/1/2019 12:49:57 PM



#60
Dibromochloromethane
Concen: 20.790 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion: 129 Resp: 83550
Ion Ratio Lower Upper
129 100
127 78.3 38.6 115.8





#61

1,2-Dibromoethane

Concen: 21.131 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 107 Resp: 80115

Ion Ratio Lower Upper

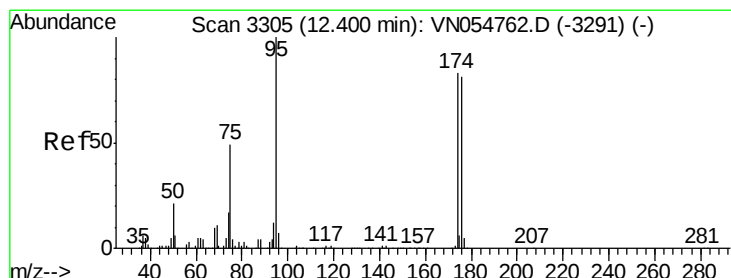
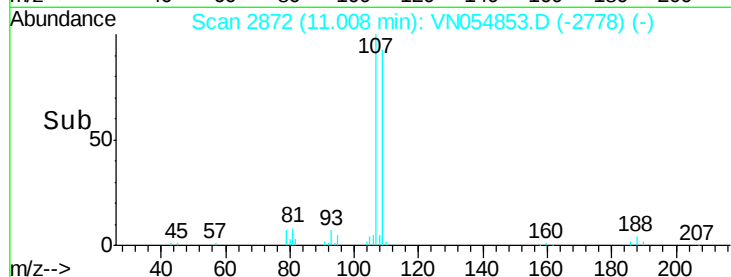
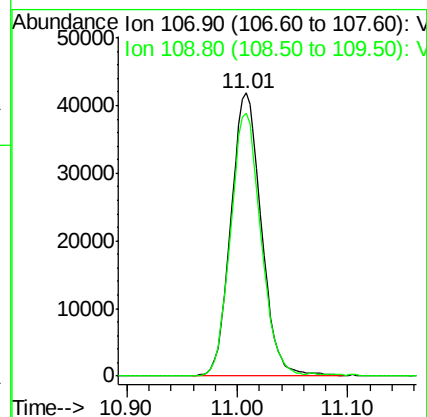
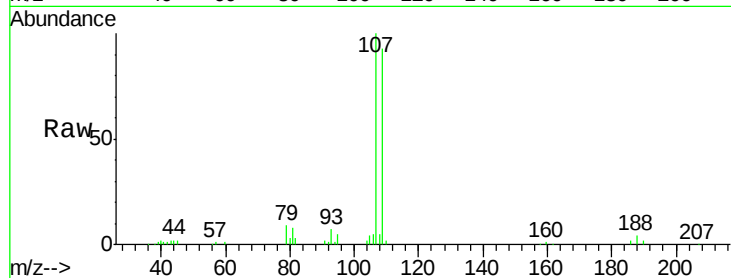
107 100

109 92.6 75.9 113.9

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 50.691 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

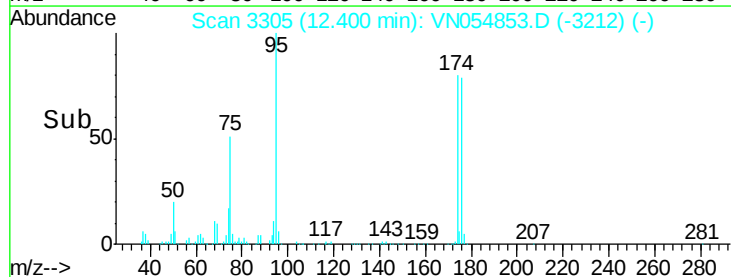
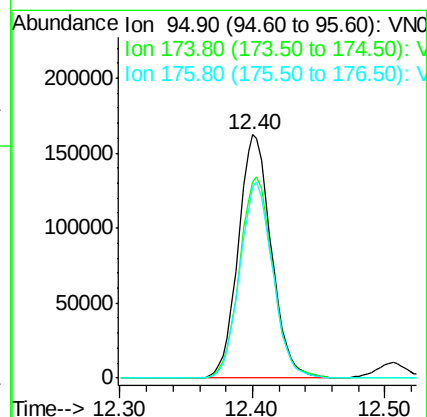
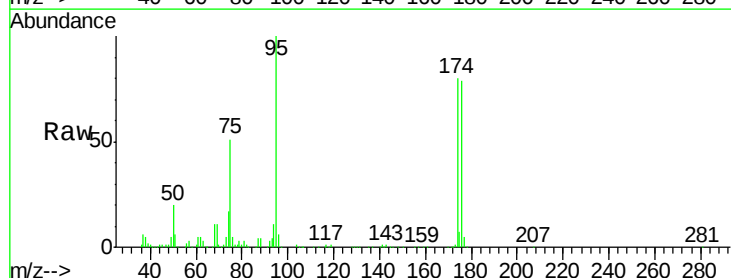
Tgt Ion: 95 Resp: 281016

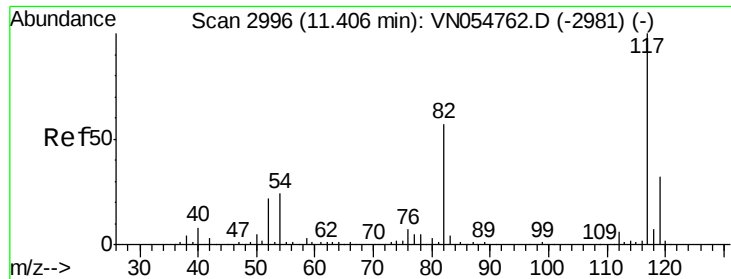
Ion Ratio Lower Upper

95 100

174 83.5 0.0 191.0

176 80.4 0.0 187.4





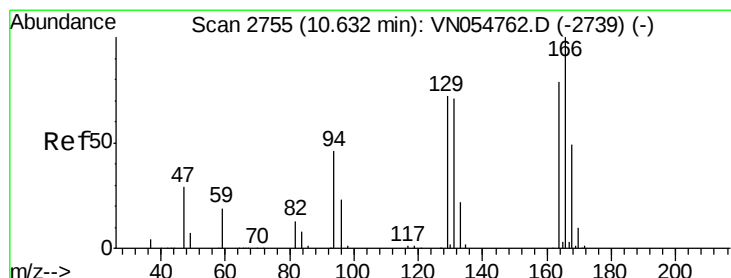
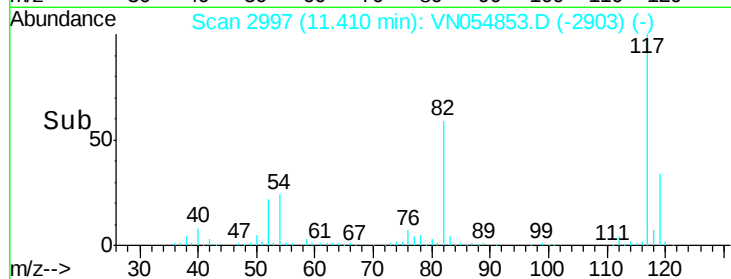
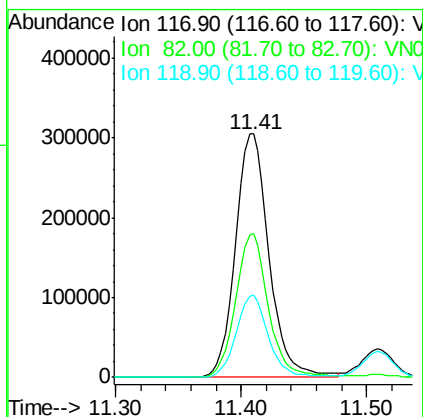
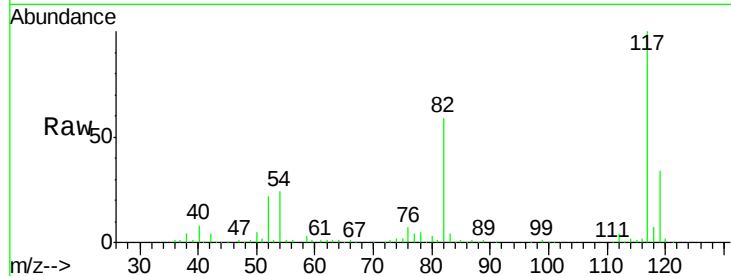
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	59.0	40.0	60.0
119	34.1	25.8	38.6

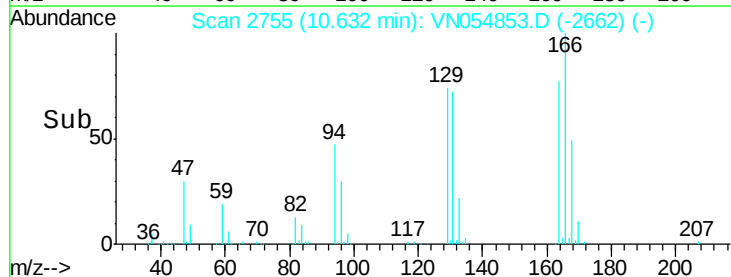
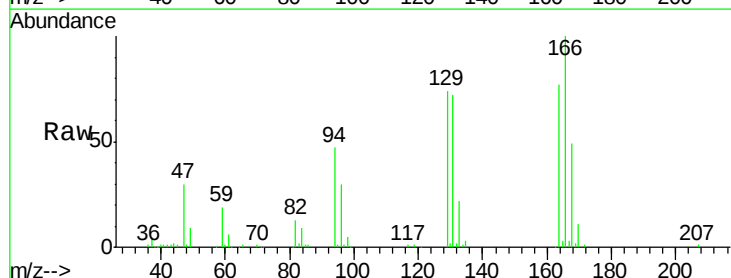
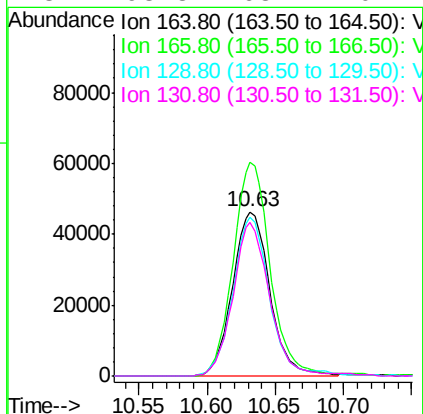
Manual Integrations
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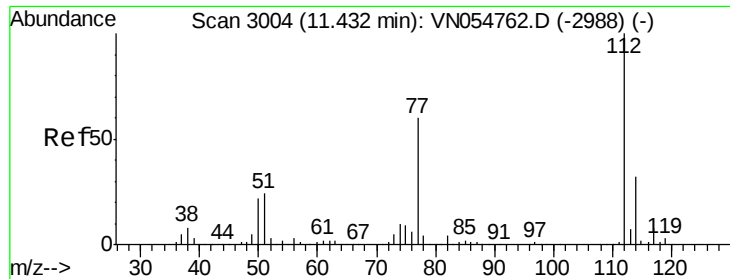
MMDadoda
4/1/2019 12:49:57 PM



#64
Tetrachloroethene
Concen: 20.277 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Resp Lower	Resp Upper
164	100		
166	130.2	103.9	155.9
129	96.7	71.1	106.7
131	93.8	68.2	102.4





#65

Chlorobenzene

Concen: 20.578 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampled :

VN0331WBS02

Tgt Ion:112 Resp: 228189

Ion Ratio Lower Upper

112 100

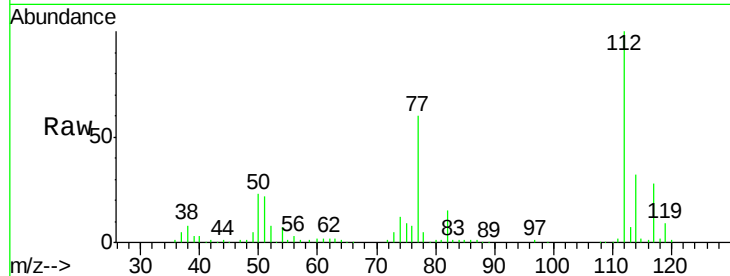
114 31.6 25.9 38.9

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.44

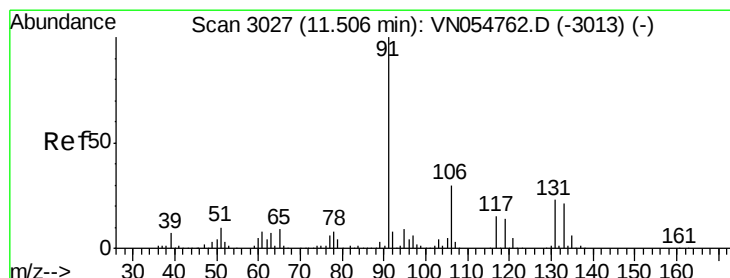
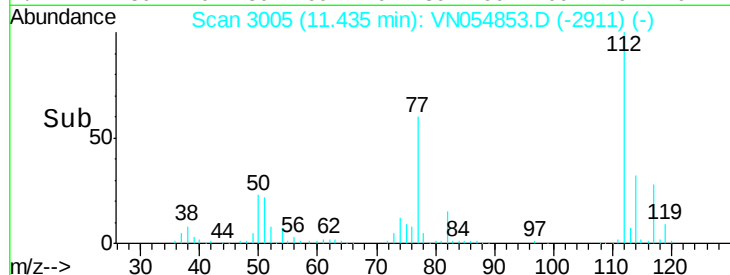
100000

50000

0

Time-->

11.40 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 20.786 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

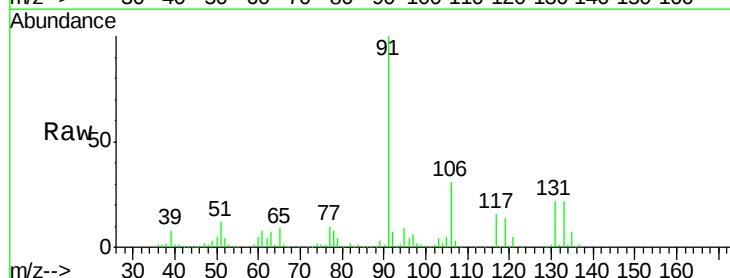
Tgt Ion:131 Resp: 86273

Ion Ratio Lower Upper

131 100

133 98.1 47.6 142.9

119 66.7 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

120000

100000

80000

60000

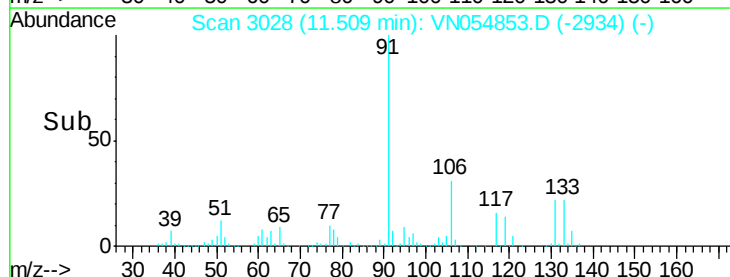
40000

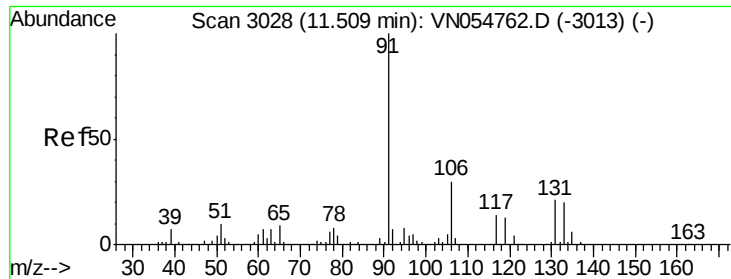
20000

0

Time-->

11.45 11.50 11.55 11.60





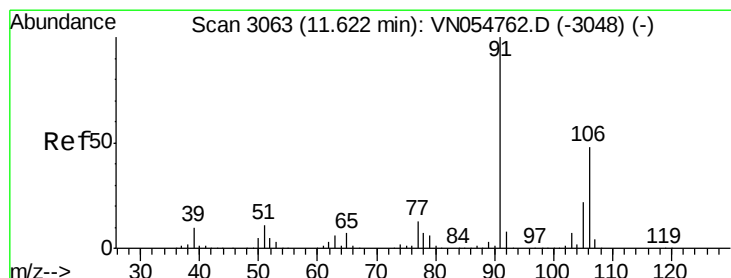
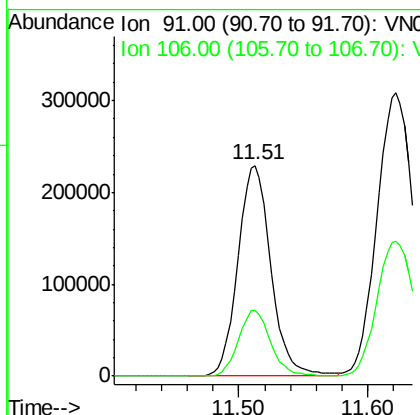
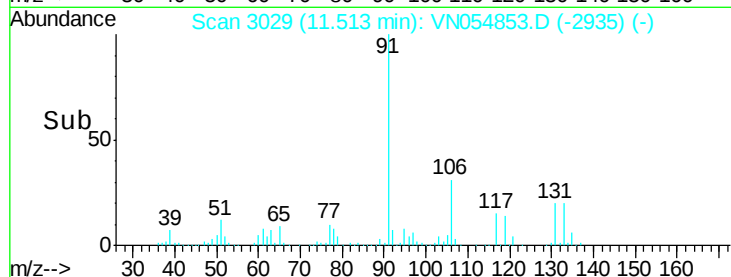
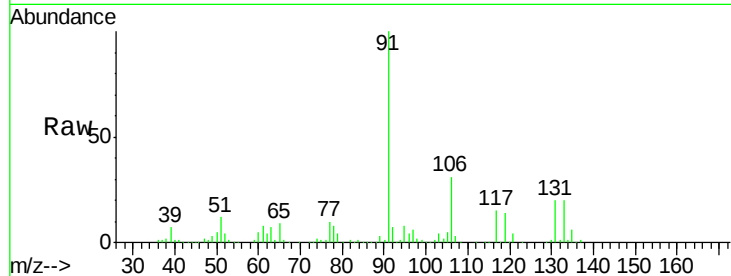
#67
Ethyl Benzene
Concen: 20.425 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion: 91 Resp: 408706
Ion Ratio Lower Upper
91 100
106 31.4 25.5 38.3

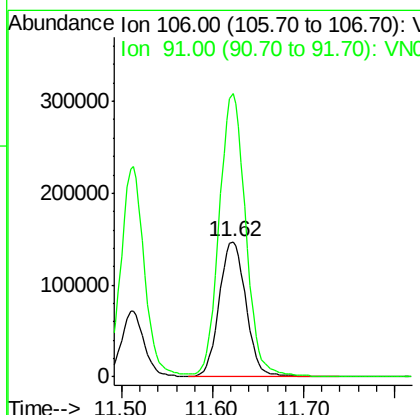
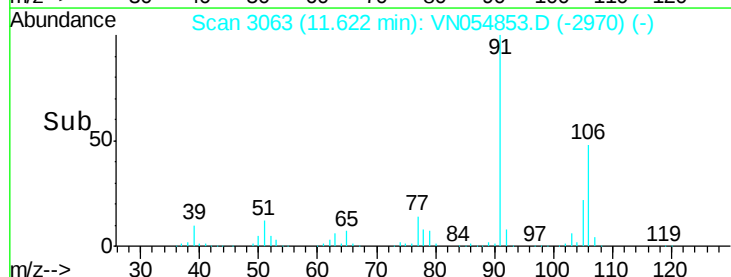
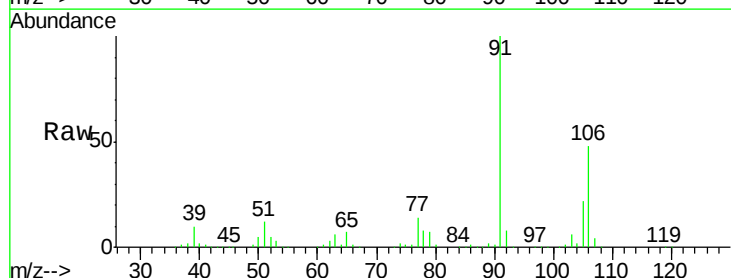
Manual Integrations
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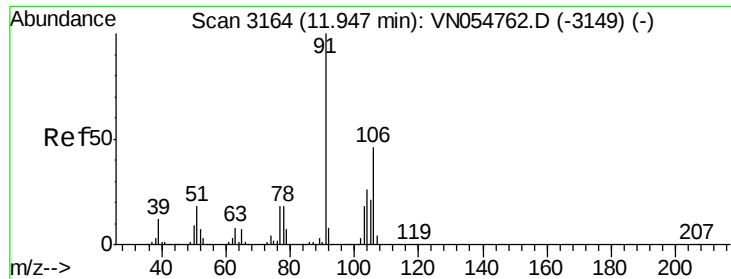
MMDadoda
4/1/2019 12:49:57 PM



#68
m/p-Xylenes
Concen: 40.829 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion: 106 Resp: 302341
Ion Ratio Lower Upper
106 100
91 207.1 159.4 239.2





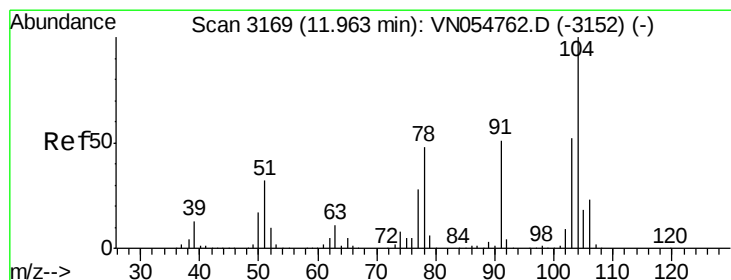
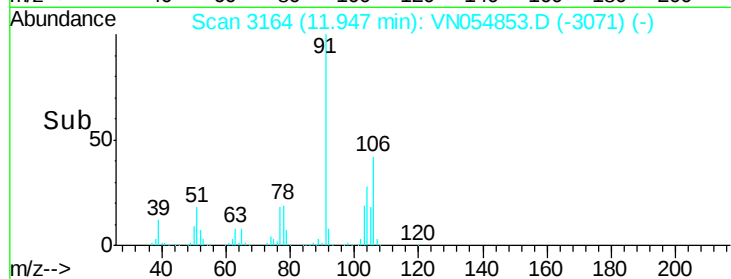
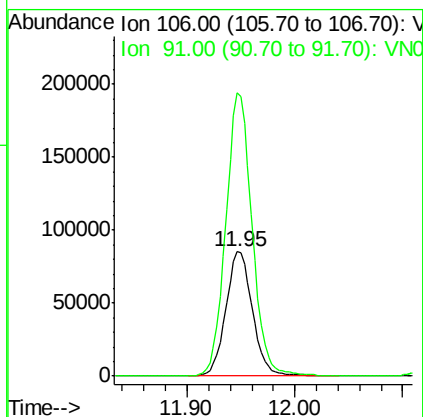
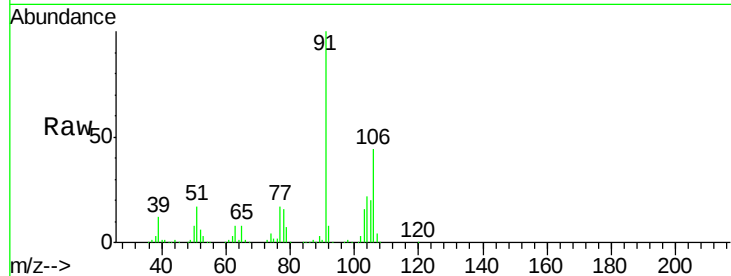
#69
o-Xylene
Concen: 20.080 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampled :
VN0331WBS02

Tgt Ion:106 Resp: 145808
Ion Ratio Lower Upper
106 100
91 225.1 105.7 317.1

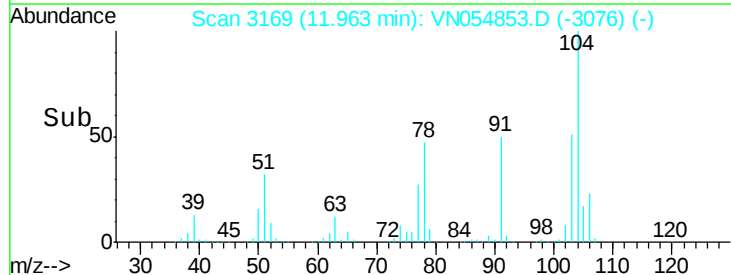
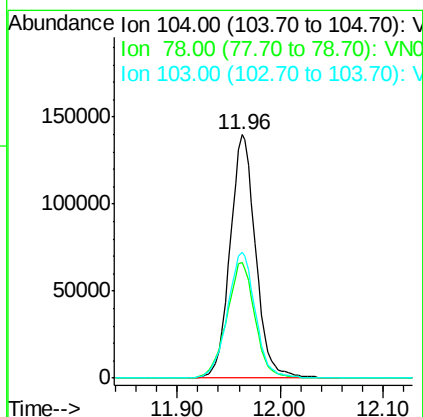
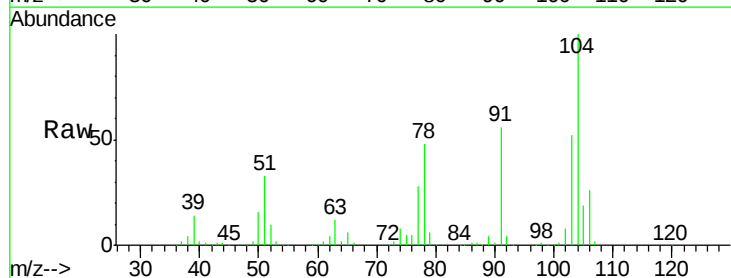
Manual Integrations
APPROVED

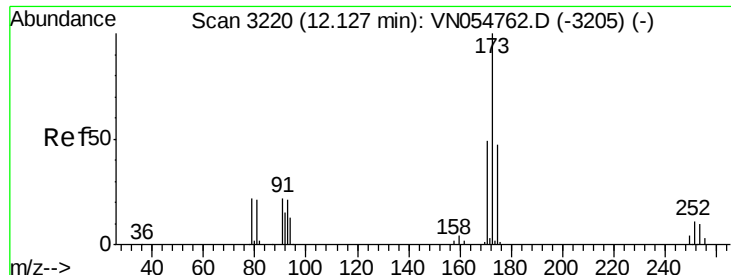
MMDadoda
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#70
Styrene
Concen: 20.832 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion:104 Resp: 241863
Ion Ratio Lower Upper
104 100
78 52.3 38.2 57.2
103 56.5 44.4 66.6





#71

Bromoform

Concen: 21.216 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion:173 Resp: 51588

Ion Ratio Lower Upper

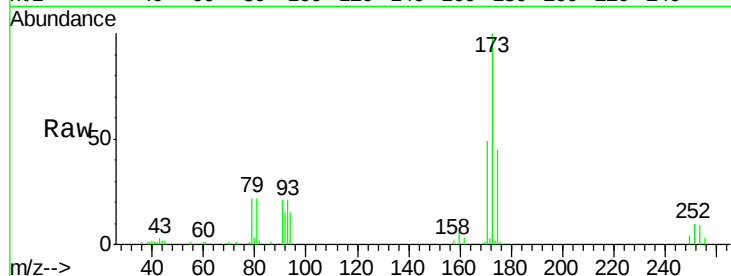
173 100

175 47.0 24.4 73.2

254 0.0 0.1 0.1#

Manual Integrations
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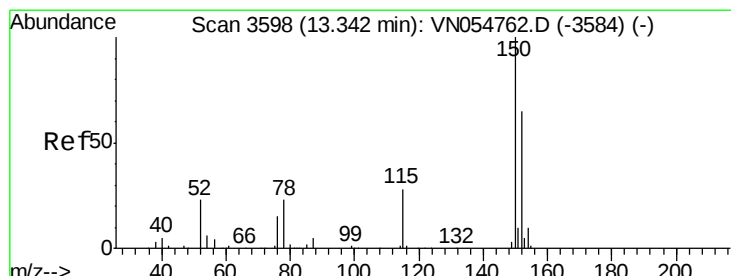
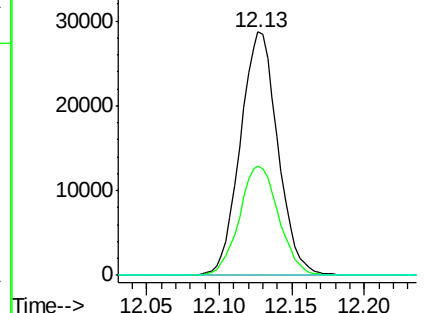
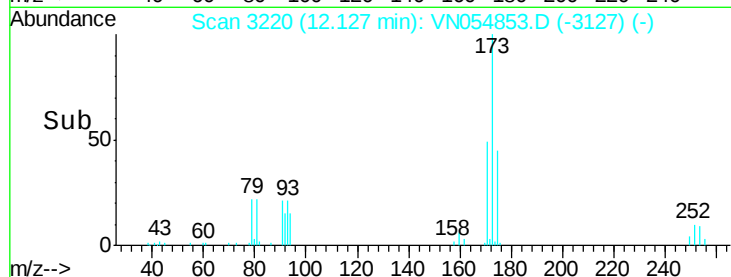
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

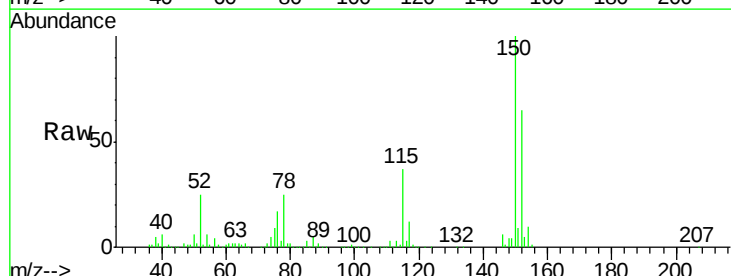
Tgt Ion:152 Resp: 236007

Ion Ratio Lower Upper

152 100

115 57.9 27.2 81.6

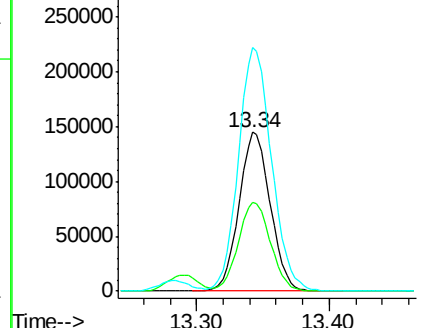
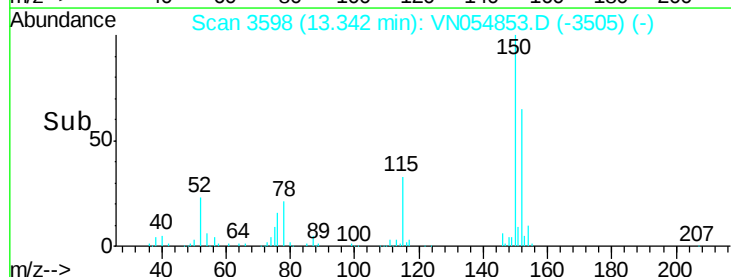
150 163.2 0.0 349.2

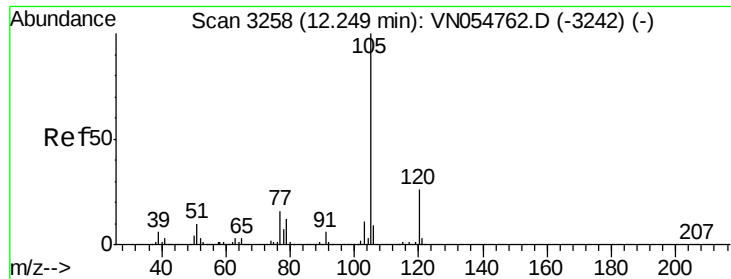


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.458 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 105 Resp: 394631

Ion Ratio Lower Upper

105 100

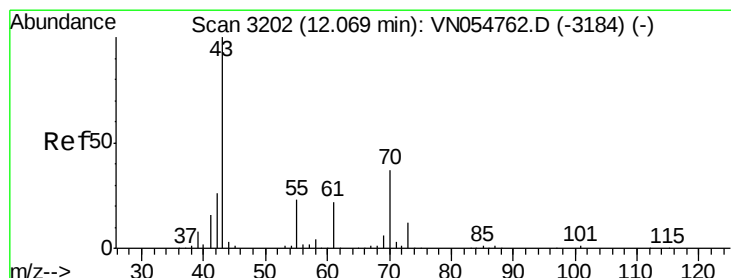
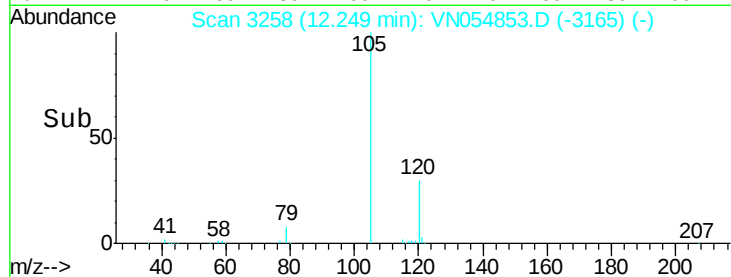
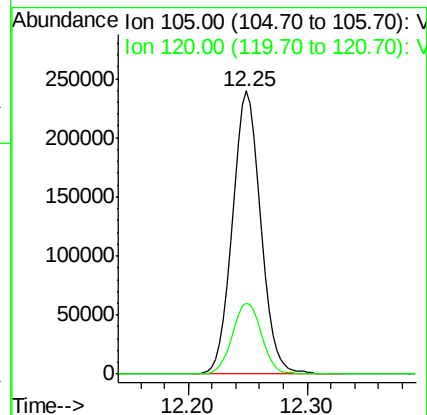
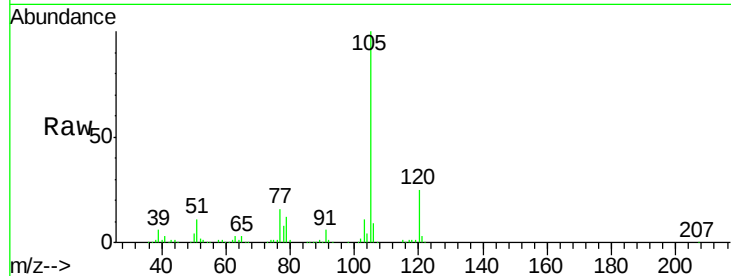
120 26.1 13.8 41.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 21.505 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion: 43 Resp: 129241

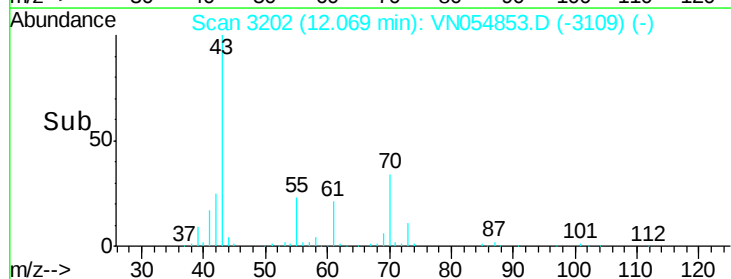
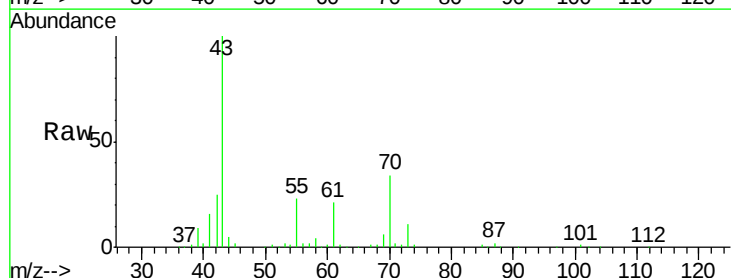
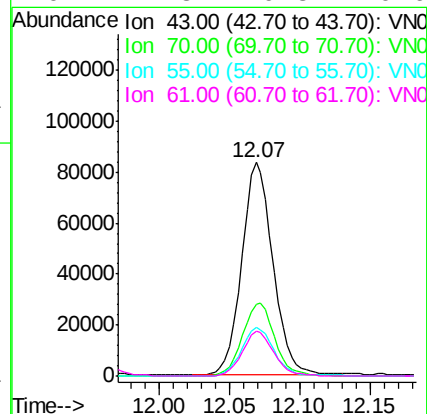
Ion Ratio Lower Upper

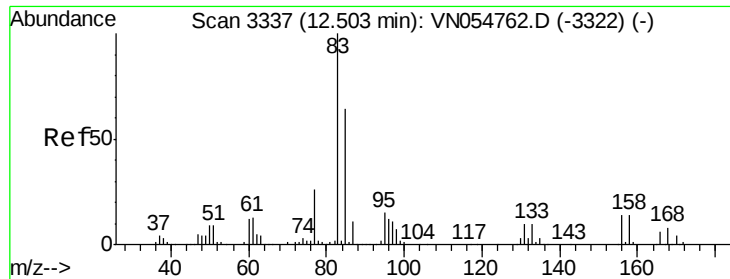
43 100

70 35.7 35.4 53.0

55 23.6 19.8 29.6

61 21.3 19.8 29.6





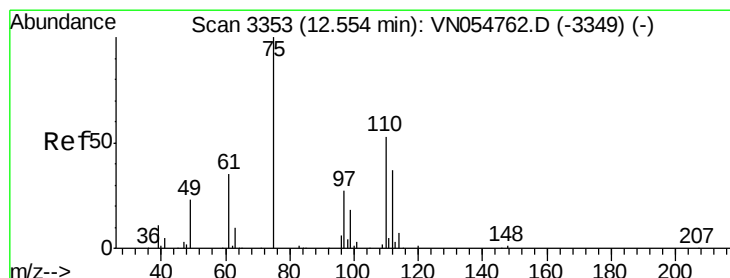
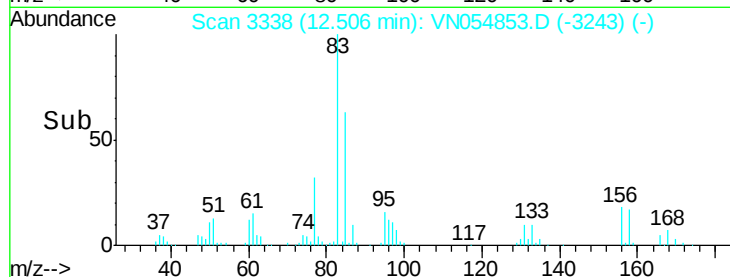
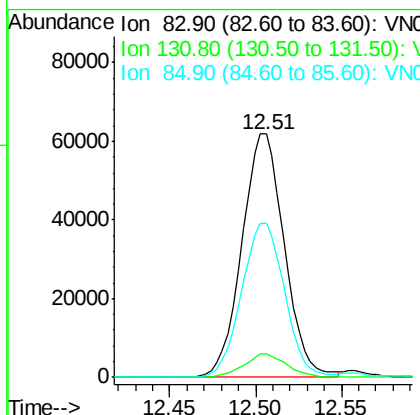
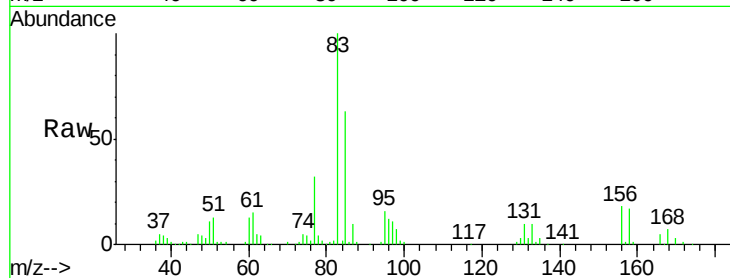
#75
 1,1,2,2-Tetrachloroethane
 Concen: 24.053 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	106065		
131	9.8	5.8	17.4	
85	64.1	32.2	96.6	

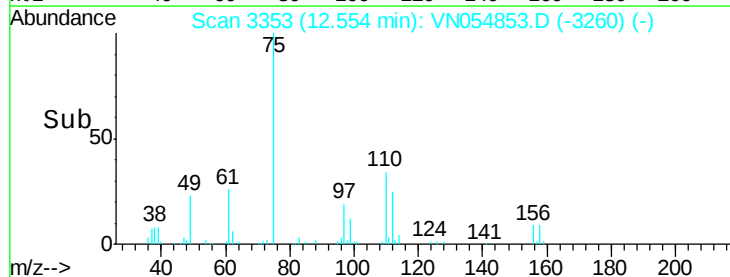
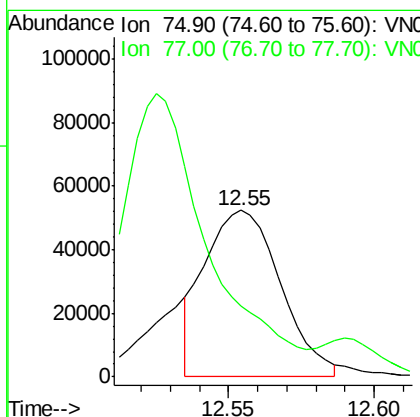
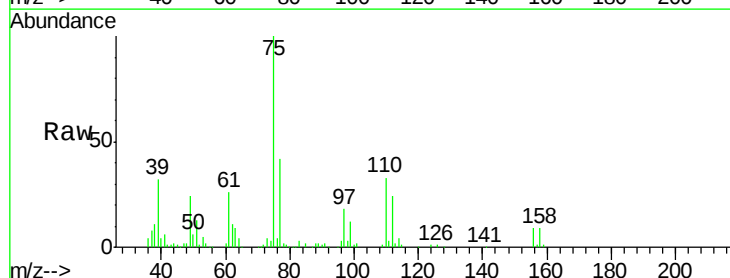
Manual Integrations
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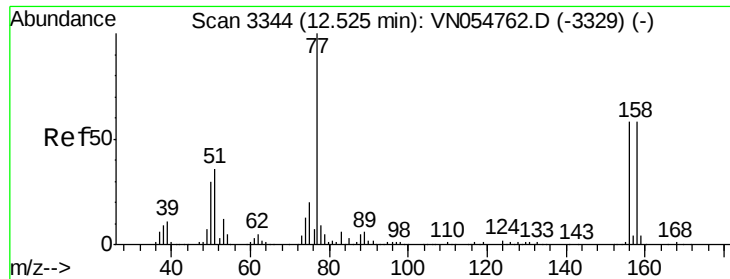
MMDadoda
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#76
 1,2,3-Trichloropropane
 Concen: 23.075 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	94607		
77	0.0	0.0	0.0	





#77

Bromobenzene

Concen: 20.473 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

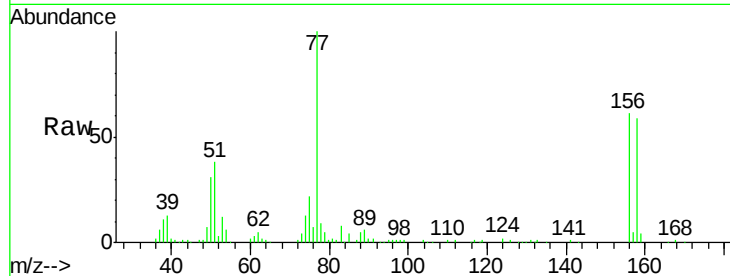
ClientSampleId :

VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
156	100		
77	195.0	81.5	244.4
158	97.1	49.0	147.2

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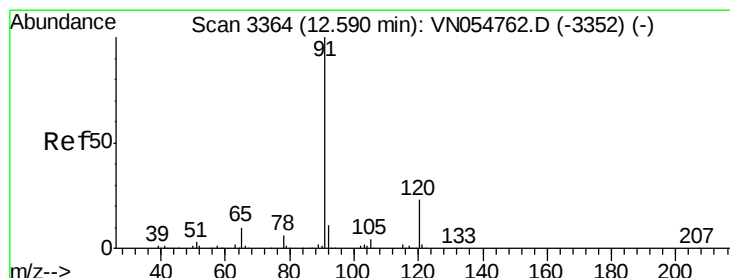
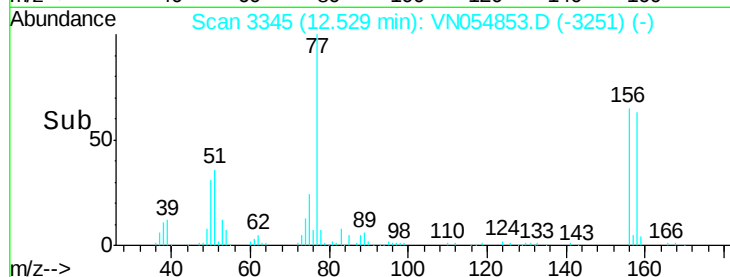
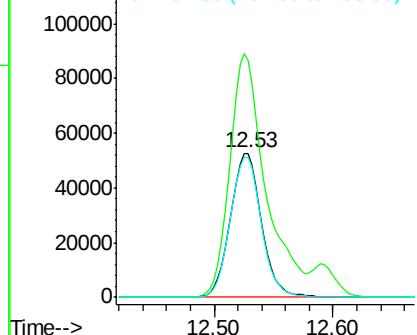
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.227 ug/l

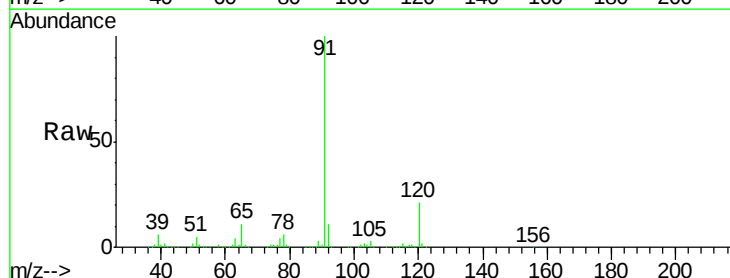
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054853.D

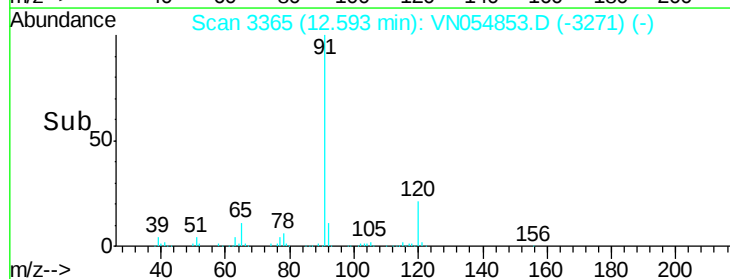
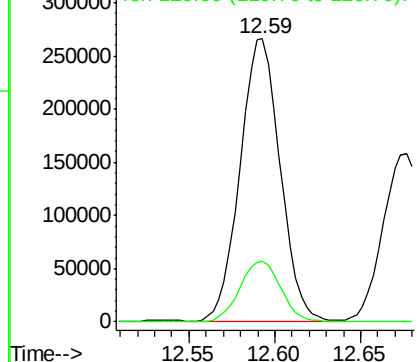
Acq: 31 Mar 2019 16:25

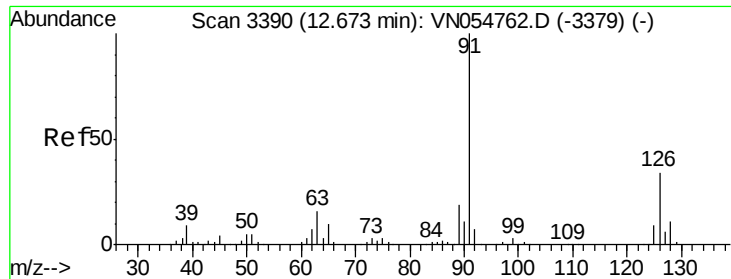
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.326 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion: 91 Resp: 266621

Ion Ratio Lower Upper

91 100

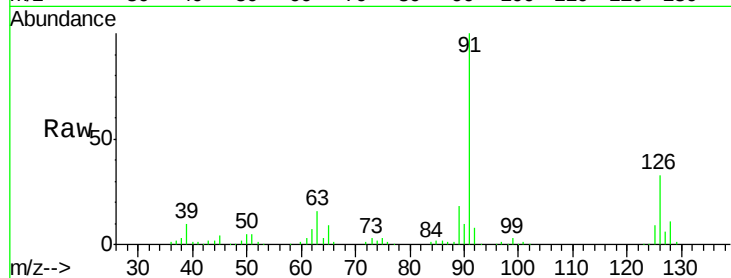
126 33.3 18.7 56.1

Manual Integrations

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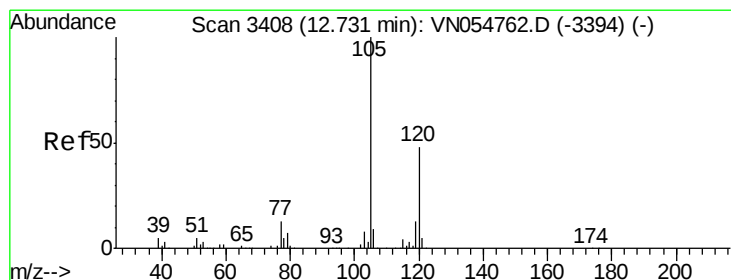
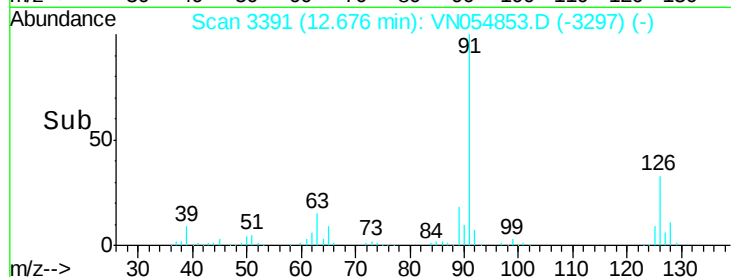
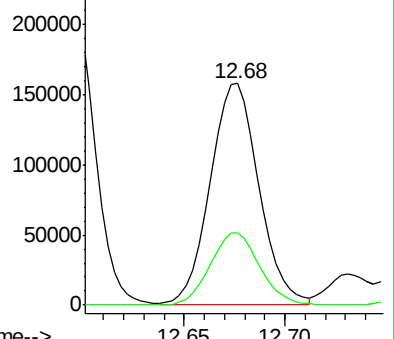
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Abundance Ion 91.00 (90.70 to 91.70): VN054762.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054762.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.149 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054853.D

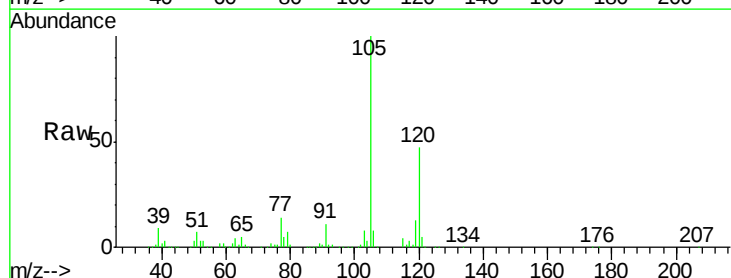
Acq: 31 Mar 2019 16:25

Tgt Ion: 105 Resp: 318930

Ion Ratio Lower Upper

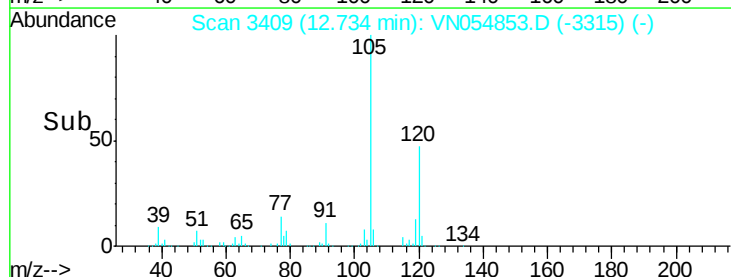
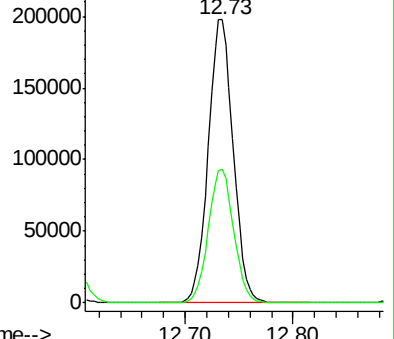
105 100

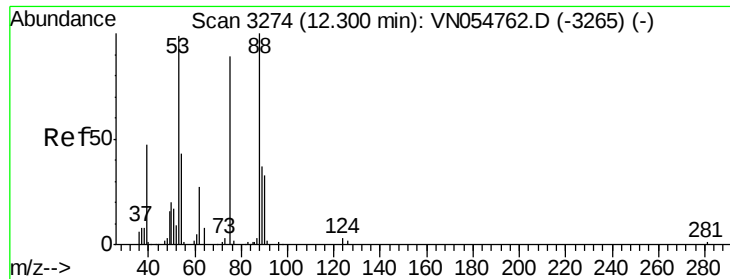
120 47.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054762.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054762.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 18.739 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

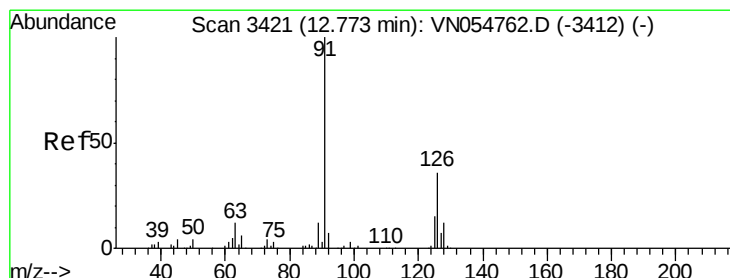
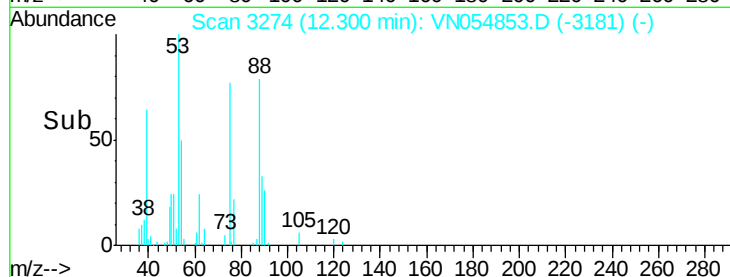
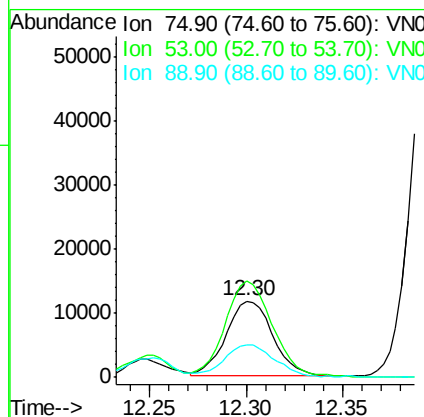
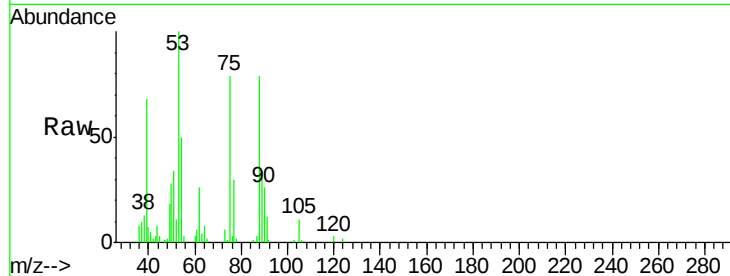
ClientSampleId :

VN0331WBS02

Tgt Ion:	75	Resp:	19752
Ion Ratio	Lower	Upper	
75	100		
53	130.4	76.2	114.2#
89	47.3	39.2	58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.800 ug/l

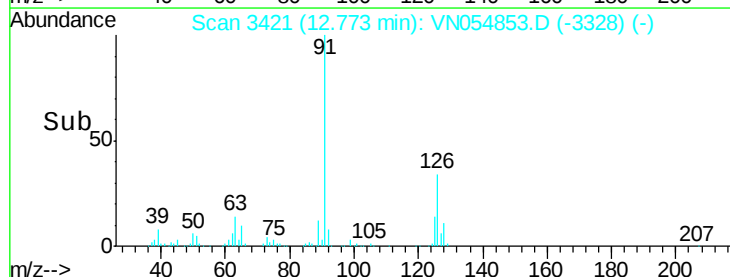
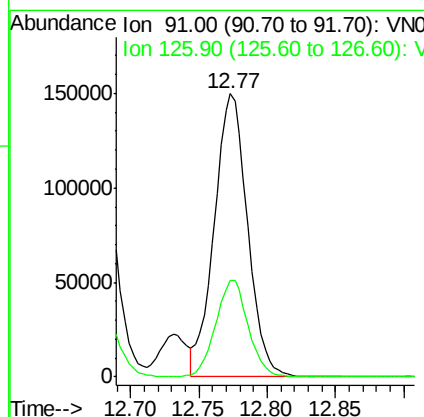
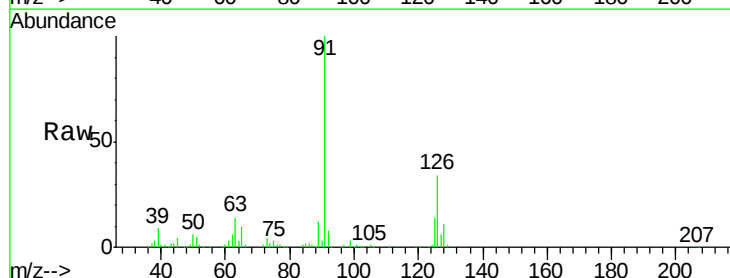
RT: 12.77 min Scan# 3421

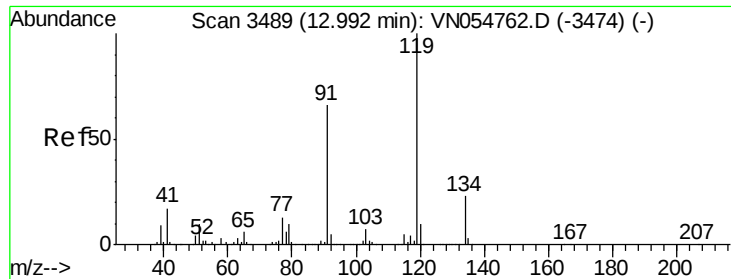
Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	91	Resp:	252260
Ion Ratio	Lower	Upper	
91	100		
126	33.7	18.1	54.1





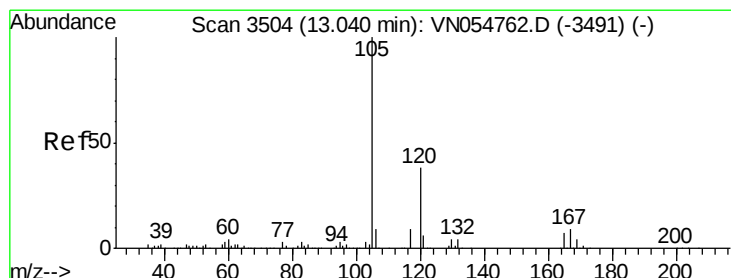
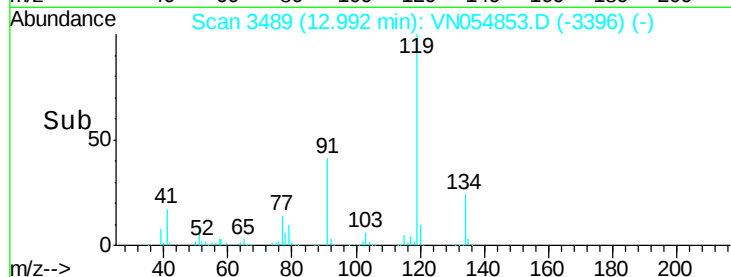
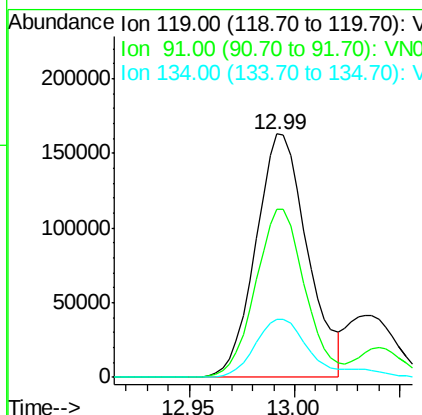
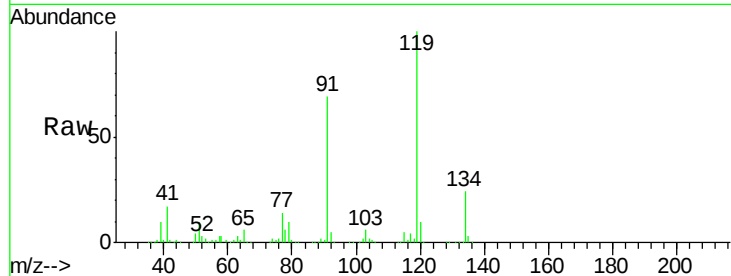
#83
tert-Butylbenzene
Concen: 21.481 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
119	100		
91	66.4	30.9	92.8
134	26.4	13.2	39.6

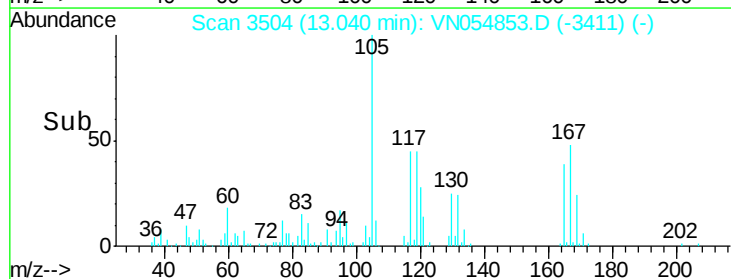
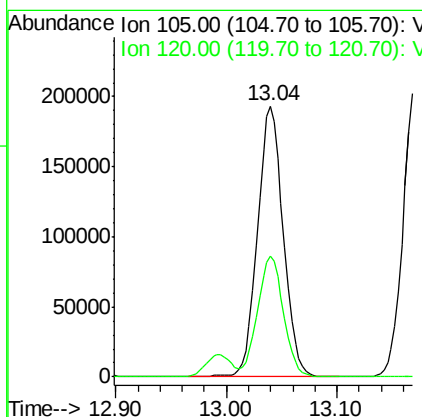
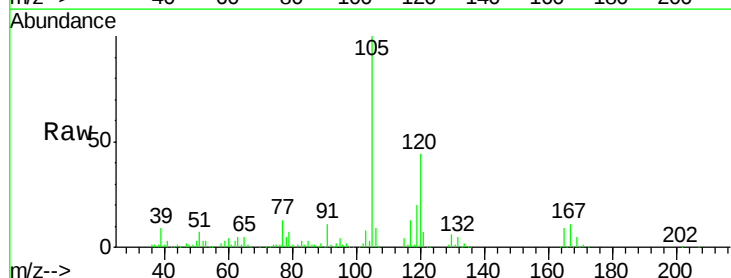
Manual Integrations
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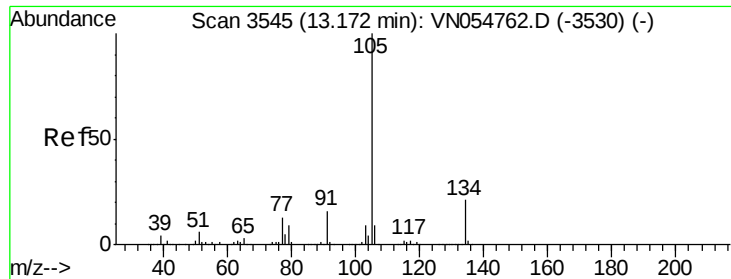
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 20.684 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.232 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

ClientSampleId :

VN0331WBS02

Tgt Ion:105 Resp: 347884

Ion Ratio Lower Upper

105 100

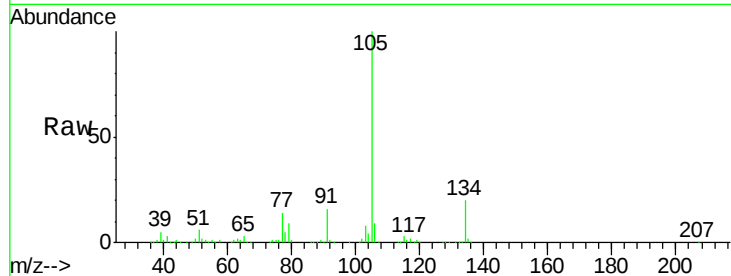
134 19.4 10.7 32.1

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

250000

200000

150000

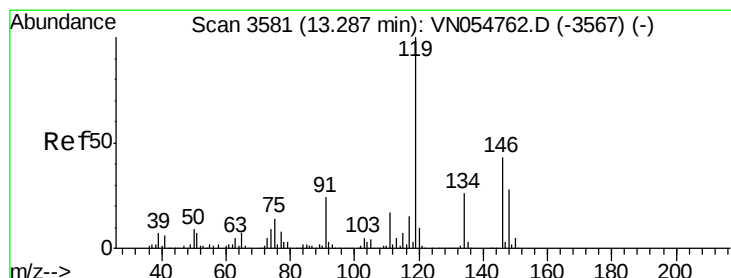
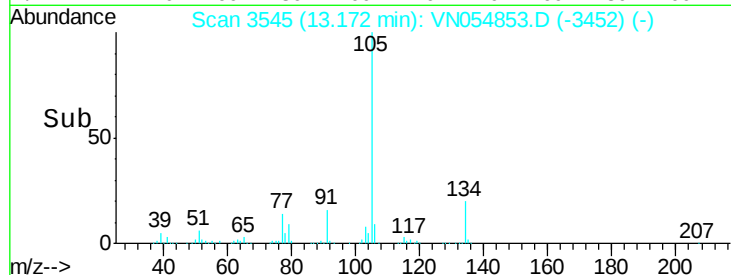
100000

50000

0

13.10 13.15 13.20 13.25

Time-->



#86

p-Isopropyltoluene

Concen: 19.645 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

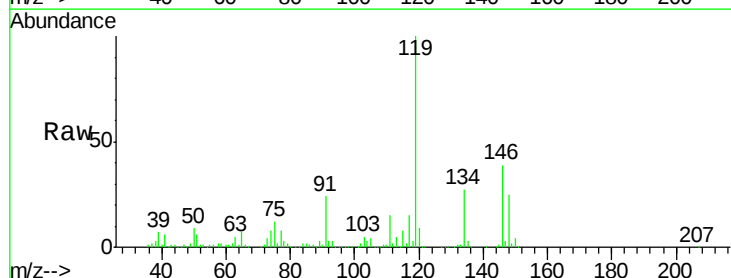
Tgt Ion:119 Resp: 297916

Ion Ratio Lower Upper

119 100

134 26.4 13.6 40.8

91 24.0 11.1 33.3



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

250000

200000

150000

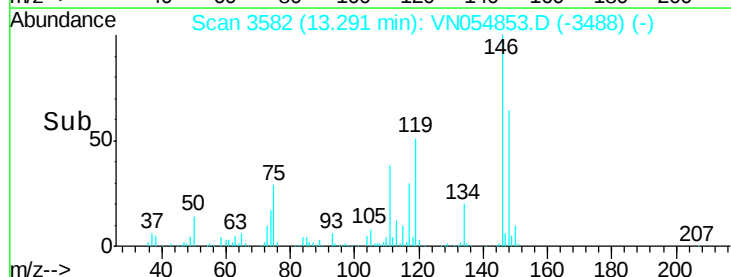
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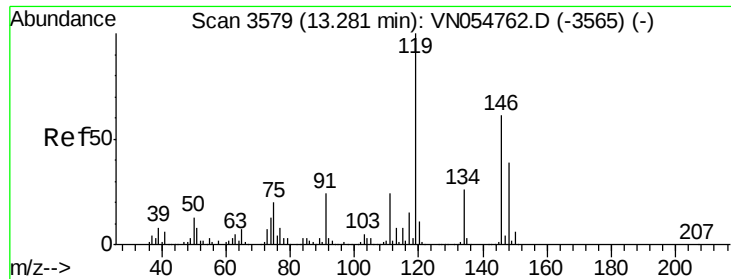
50000

0

13.20 13.25 13.30 13.35

Time-->





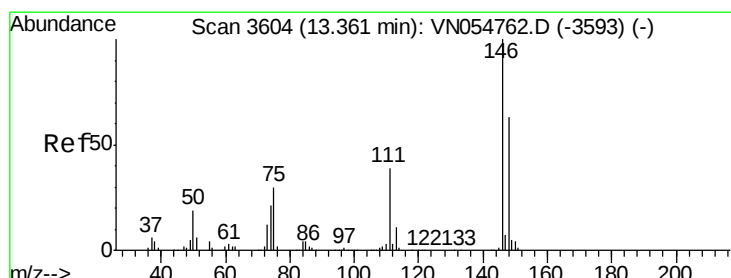
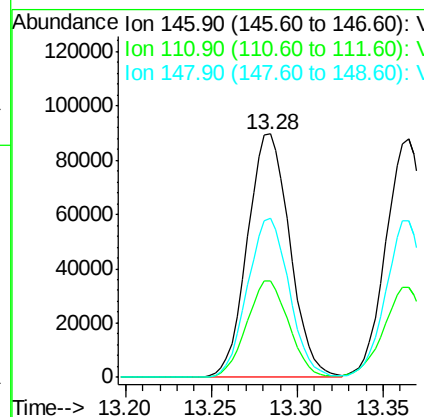
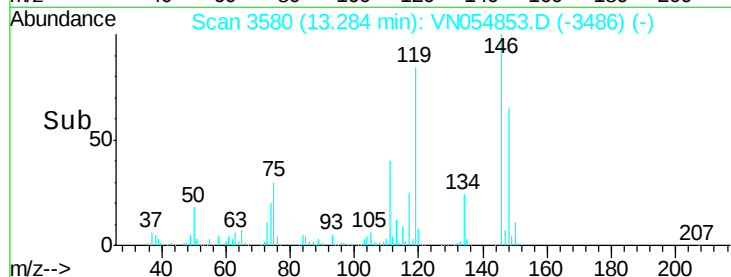
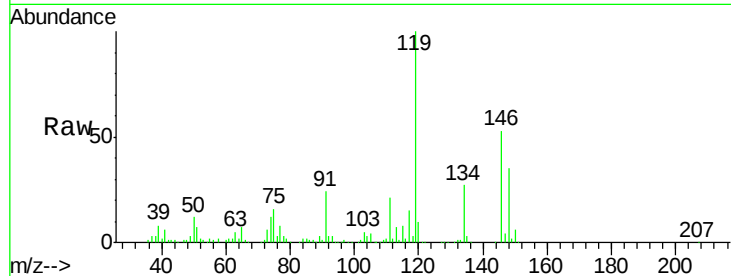
#87
 1,3-Dichlorobenzene
 Concen: 19.681 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0331WBS02

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	153405		
111	39.4	18.8	56.3	
148	64.6	32.2	96.6	

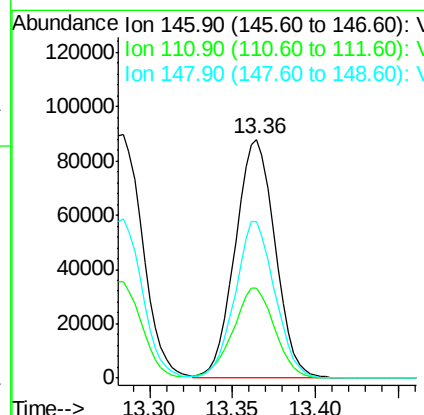
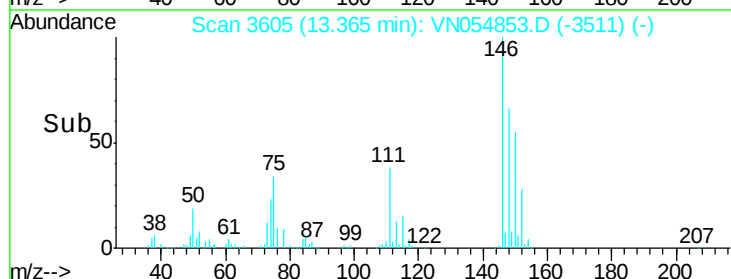
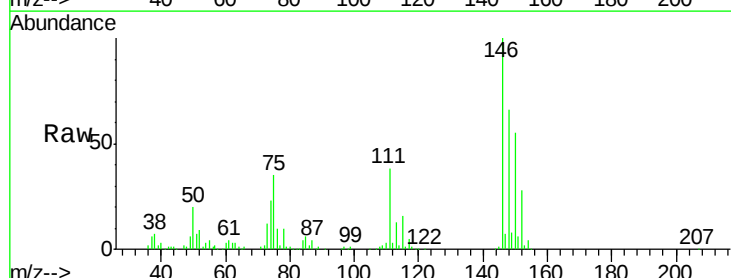
Manual Integrations
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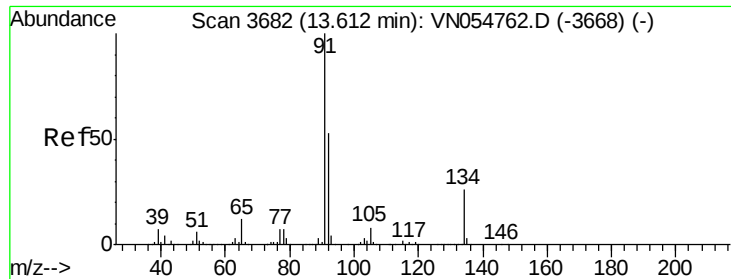
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#88
 1,4-Dichlorobenzene
 Concen: 19.256 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	147214		
111	39.5	18.1	54.1	
148	65.6	32.0	96.0	





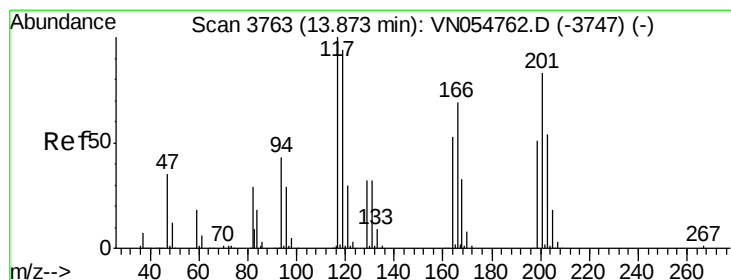
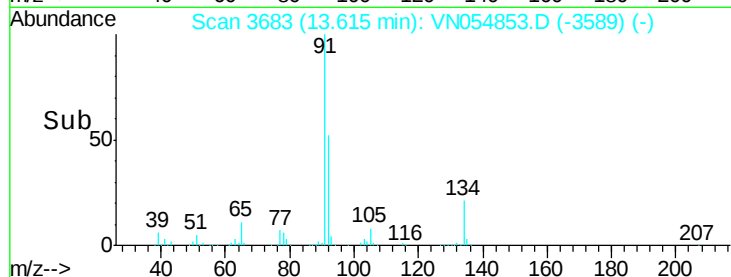
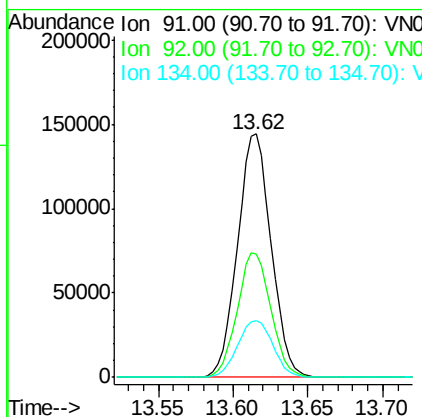
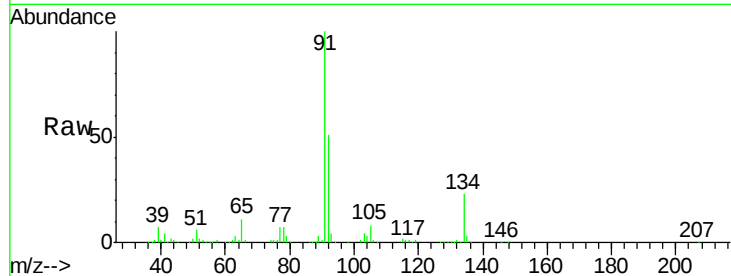
#89
n-Butylbenzene
Concen: 18.242 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Instrument :
MSVOA_N
ClientSampleId :
VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.2	78.6
134	24.6	14.3	42.9

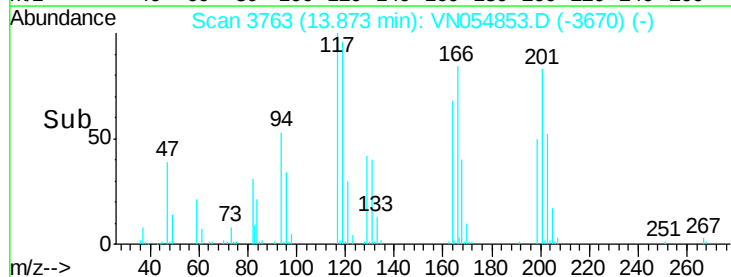
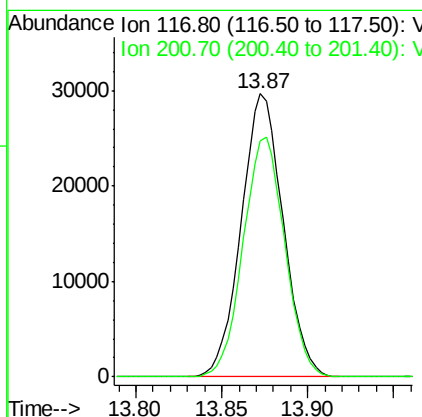
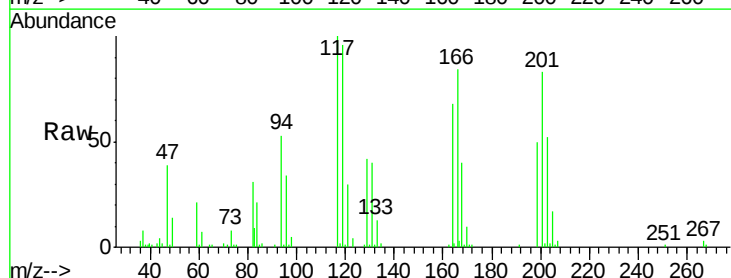
Manual Integrations
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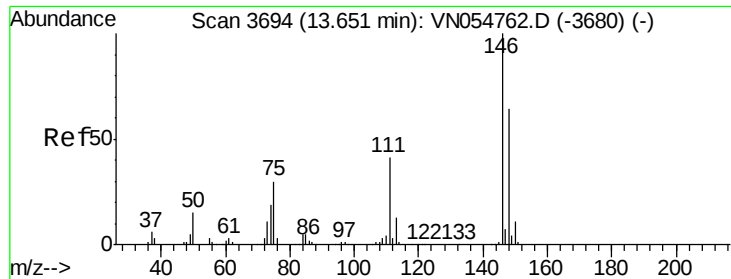
MMDadoda
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#90
Hexachloroethane
Concen: 19.518 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054853.D
Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.7	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 19.413 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

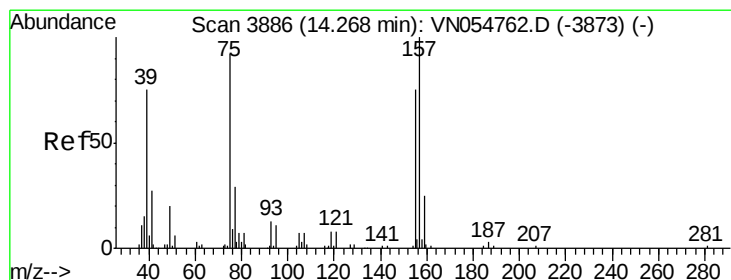
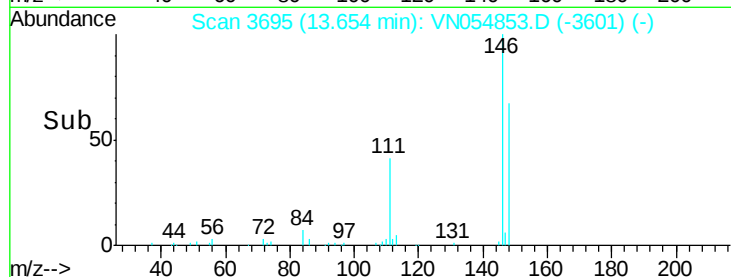
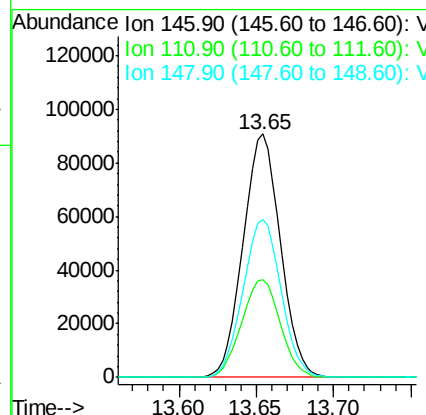
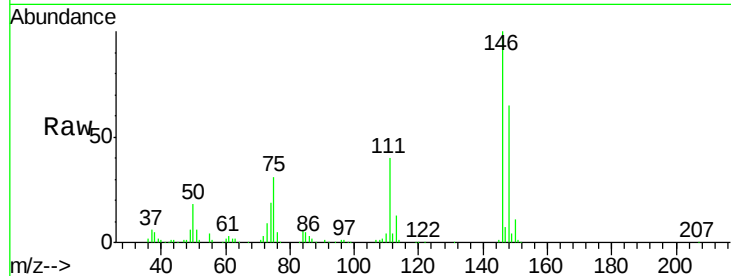
ClientSampleId :

VN0331WBS02

Tgt Ion:	146	Resp:	152713
Ion Ratio	Lower	Upper	
146	100		
111	41.5	19.1	57.3
148	65.9	32.4	97.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 22.155 ug/l

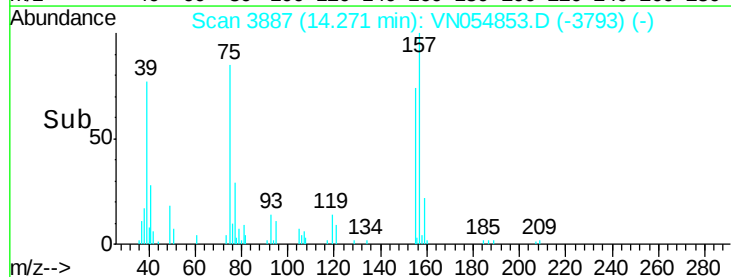
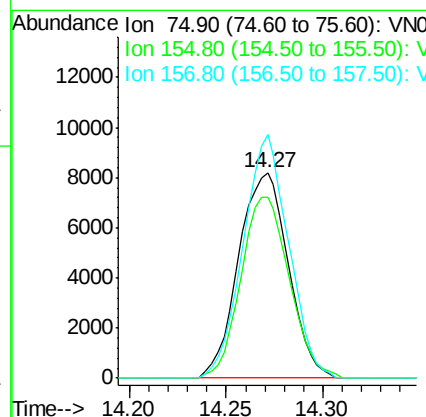
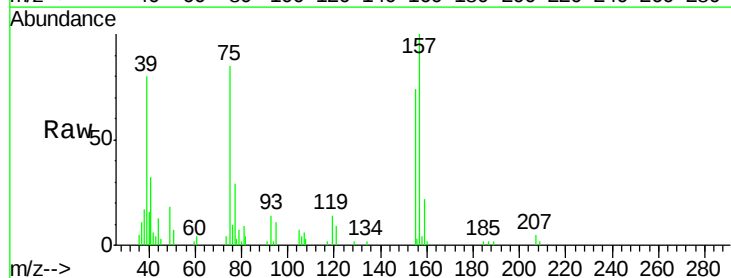
RT: 14.27 min Scan# 3887

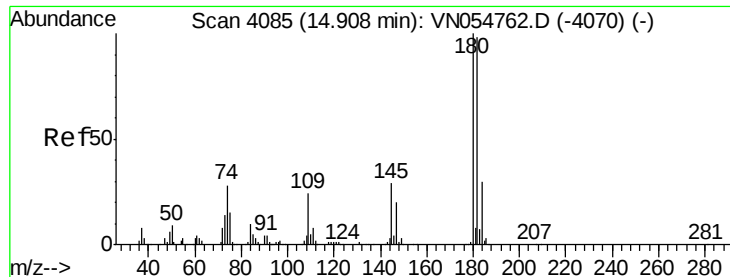
Delta R.T. 0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	75	Resp:	14610
Ion Ratio	Lower	Upper	
75	100		
155	86.0	50.1	150.3
157	108.5	63.1	189.3





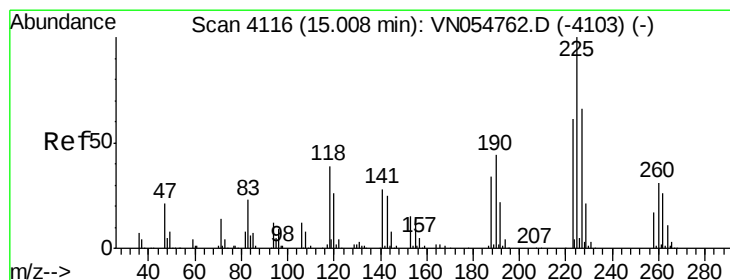
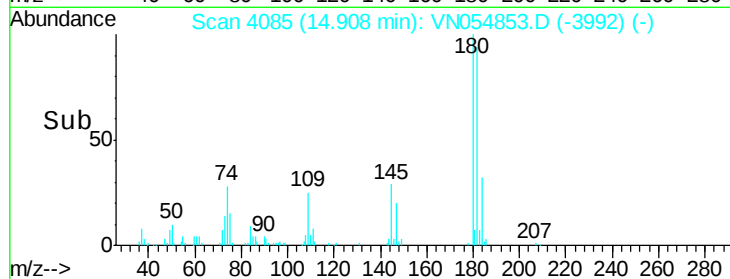
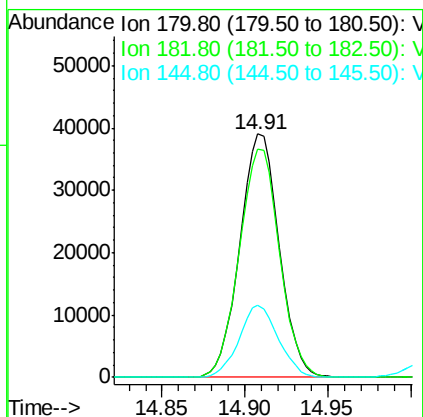
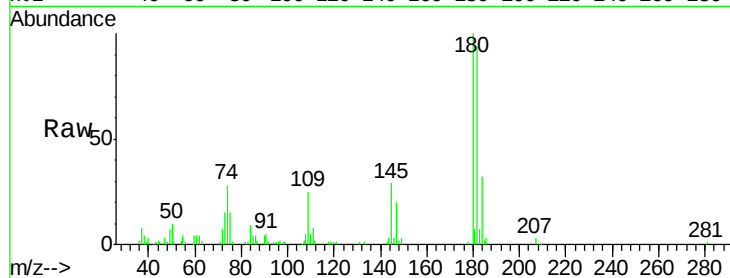
#93
 1,2,4-Trichlorobenzene
 Concen: 16.937 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Instrument :
 MSVOA_N
 ClientSampled :
 VN0331WBS02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.2
145	29.4	14.2	42.8

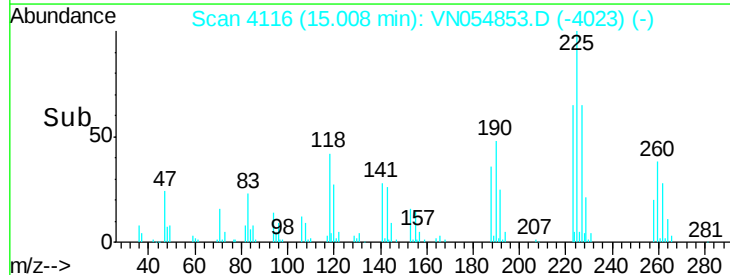
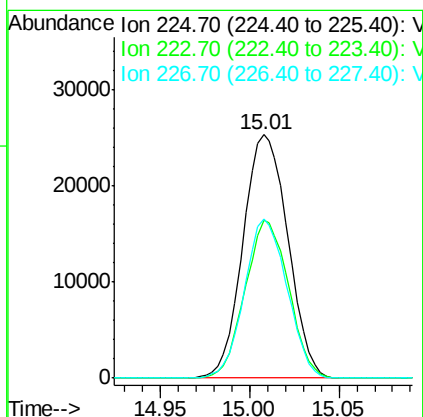
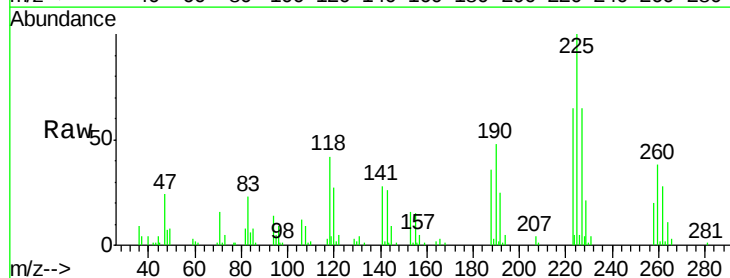
Manual Integrations
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 4/1/2019 12:49:57 PM



#94
 Hexachlorobutadiene
 Concen: 18.565 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054853.D
 Acq: 31 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.1	93.5
227	61.9	31.9	95.9





#95

Naphthalene

Concen: 18.285 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Instrument :

MSVOA_N

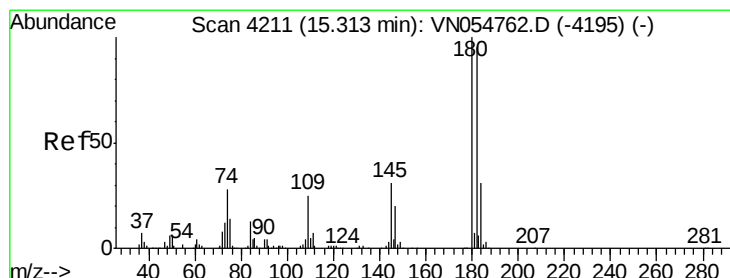
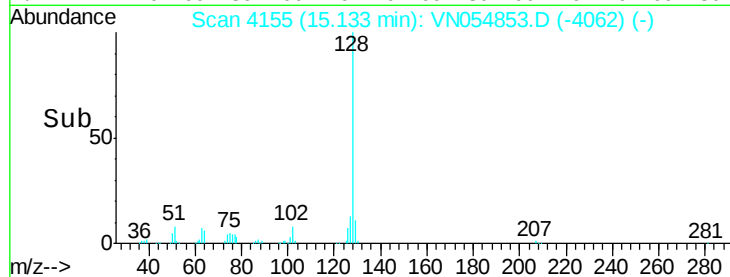
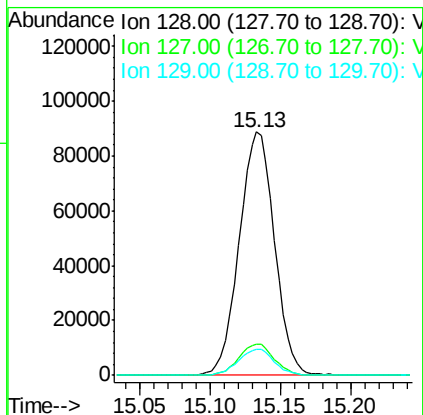
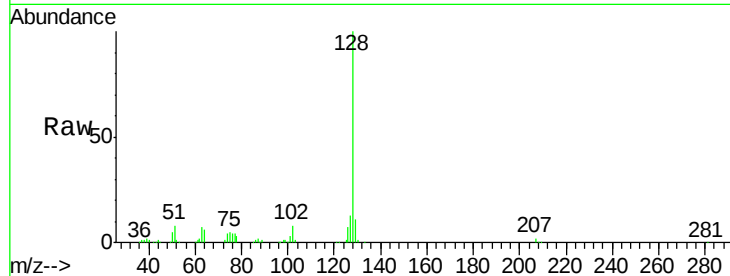
ClientSampleId :

VN0331WBS02

Tgt Ion:	128	Resp:	155532
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.1	15.1
129	10.9	8.7	13.1

Manual Integrations
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4/1/2019 12:49:57 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.405 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054853.D

Acq: 31 Mar 2019 16:25

Tgt Ion:	180	Resp:	70493
Ion Ratio	Lower	Upper	
180	100		
182	92.9	47.5	142.6
145	32.1	14.8	44.3

