

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110918\
 Data File : VN052236.D
 Acq On : 9 Nov 2018 19:22
 Operator : MD\SY
 Sample : VN1109WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 9:18:59 AM

Quant Time: Nov 12 03:45:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	274799	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	480709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	420636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	174340	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	189717	50.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.96%	
35) Dibromofluoromethane	7.59	113	156108	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
50) Toluene-d8	10.09	98	597750	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
62) 4-Bromofluorobenzene	12.40	95	188064	47.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	59447	19.899	ug/l	98
3) Chloromethane	2.06	50	81979	19.654	ug/l	98
4) Vinyl Chloride	2.19	62	70456	20.274	ug/l	95
5) Bromomethane	2.58	94	40336	18.294	ug/l	98
6) Chloroethane	2.72	64	39359	19.072	ug/l	99
7) Trichlorofluoromethane	3.03	101	93778	19.385	ug/l	98
8) Diethyl Ether	3.41	74	36581	19.222	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.77	101	57955	18.673	ug/l	100
10) Methyl Iodide	3.96	142	71642	17.790	ug/l	99
11) Tert butyl alcohol	4.79	59	17756m	92.172	ug/l	
12) 1,1-Dichloroethene	3.74	96	54556	18.990	ug/l	96
13) Acrolein	3.61	56	31420	124.864	ug/l	94
14) Allyl chloride	4.33	41	102350	17.016	ug/l	91
15) Acrylonitrile	4.99	53	110183	93.060	ug/l	100
16) Acetone	3.82	43	86014	83.328	ug/l	96
17) Carbon Disulfide	4.06	76	158063	18.967	ug/l	98
18) Methyl Acetate	4.33	43	56146	17.879	ug/l	100
19) Methyl tert-butyl Ether	5.06	73	153669	18.722	ug/l	100
20) Methylene Chloride	4.56	84	66258	19.340	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	59326	19.001	ug/l	94
22) Diisopropyl ether	5.95	45	232339	19.269	ug/l	98
23) Vinyl Acetate	5.90	43	783833	94.739	ug/l	99
24) 1,1-Dichloroethane	5.85	63	122582	19.248	ug/l	98
25) 2-Butanone	6.84	43	131118	81.786	ug/l	100
26) 2,2-Dichloropropane	6.83	77	81170	17.450	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	67879	19.422	ug/l	99
28) Bromochloromethane	7.20	49	68210	21.676	ug/l	99
29) Tetrahydrofuran	7.22	42	88803	85.111	ug/l	98
30) Chloroform	7.37	83	115946	19.237	ug/l	98
31) Cyclohexane	7.66	56	118719	19.746	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	96034	19.548	ug/l	98
36) 1,1-Dichloropropene	7.80	75	88498	18.239	ug/l	99
37) Ethyl Acetate	6.93	43	61815	16.939	ug/l	99
38) Carbon Tetrachloride	7.78	117	82586	18.782	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	102541	18.528	ug/l	98
40) Benzene	8.04	78	264211	19.019	ug/l	99
41) Methacrylonitrile	7.17	41	29954	14.126	ug/l #	88
42) 1,2-Dichloroethane	8.13	62	88276	18.111	ug/l	99
43) Isopropyl Acetate	8.17	43	112393	17.669	ug/l #	87
44) Trichloroethene	8.84	130	63981	18.379	ug/l	99
45) 1,2-Dichloropropane	9.12	63	73209	18.864	ug/l	99
46) Dibromomethane	9.21	93	41123	18.447	ug/l	100
47) Bromodichloromethane	9.40	83	85890	18.596	ug/l	98
48) Methyl methacrylate	9.20	41	57137	17.048	ug/l	98
49) 1,4-Dioxane	9.20	88	8855	328.658	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	305308	86.911	ug/l	100
52) Toluene	10.16	92	158538	18.919	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	81842	17.956	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	97135	18.054	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	55472	18.314	ug/l	98
56) Ethyl methacrylate	10.43	69	73216	17.885	ug/l	99
57) 1,3-Dichloropropane	10.71	76	98588	18.183	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	211008	93.091	ug/l	99
59) 2-Hexanone	10.75	43	197509	80.091	ug/l	100
60) Dibromochloromethane	10.90	129	57264	18.639	ug/l	96
61) 1,2-Dibromoethane	11.01	107	53242	17.886	ug/l	98
64) Tetrachloroethene	10.63	164	55167	18.732	ug/l	96
65) Chlorobenzene	11.43	112	168641	18.921	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.51	131	57897	19.177	ug/l	99
67) Ethyl Benzene	11.51	91	295751	18.865	ug/l	99
68) m/p-Xylenes	11.62	106	218873	37.488	ug/l	99
69) o-Xylene	11.95	106	105302	18.878	ug/l	100
70) Styrene	11.96	104	168282	18.674	ug/l	98
71) Bromoform	12.13	173	31885	17.703	ug/l #	98
73) Isopropylbenzene	12.25	105	280313	19.669	ug/l	99
74) N-amyl acetate	12.07	43	94827	18.328	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	66073	18.911	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	59811m	19.391	ug/l	
77) Bromobenzene	12.53	156	63566	19.055	ug/l	97
78) n-propylbenzene	12.59	91	322593	19.327	ug/l	100
79) 2-Chlorotoluene	12.67	91	186927	19.331	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	223394	19.710	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	15481	17.132	ug/l	90
82) 4-Chlorotoluene	12.77	91	187227	19.297	ug/l	100
83) tert-Butylbenzene	12.99	119	192144	19.418	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	220482	19.294	ug/l	100
85) sec-Butylbenzene	13.17	105	266043	19.606	ug/l	99
86) p-Isopropyltoluene	13.29	119	215937	19.022	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	108625	18.705	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	107977	18.572	ug/l	99
89) n-Butylbenzene	13.62	91	184846	18.286	ug/l	100
90) Hexachloroethane	13.87	117	36635	18.386	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	106725	18.831	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	8476	17.064	ug/l	97

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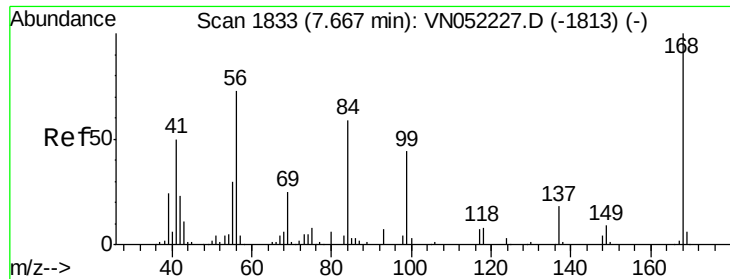
Manual Integrations
APPROVED

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Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	42451	18.942	ug/l	97
94) Hexachlorobutadiene	15.01	225	22894	18.799	ug/l	99
95) Naphthalene	15.13	128	96312	17.437	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	38080	17.972	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion:168 Resp: 274799

Ion Ratio Lower Upper

168 100

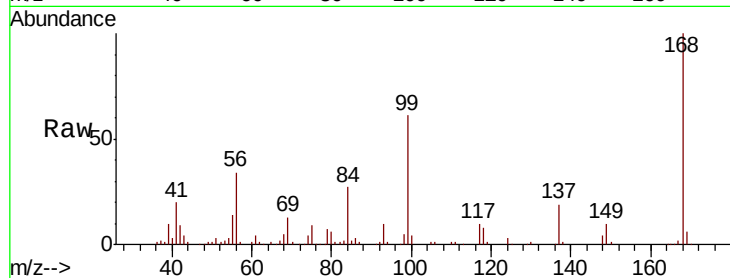
99 60.8 44.7 67.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

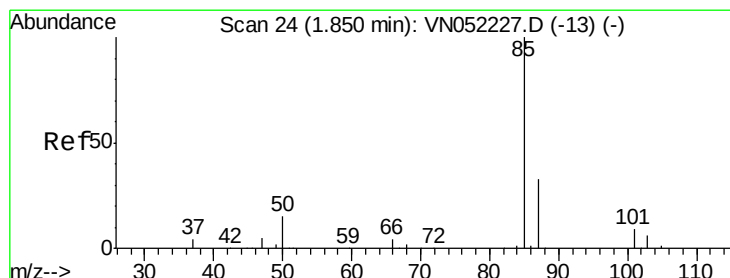
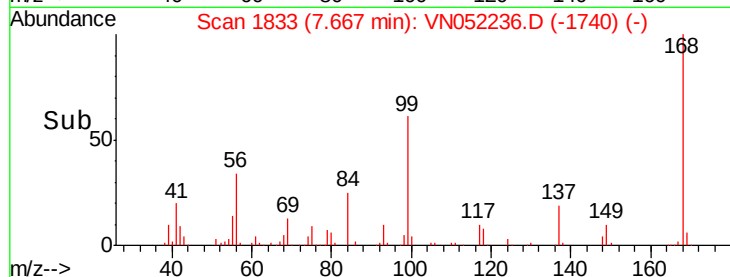
7.67

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.899 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052236.D

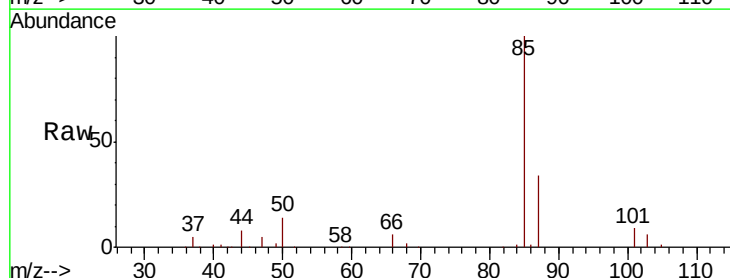
Acq: 9 Nov 2018 19:22

Tgt Ion: 85 Resp: 59447

Ion Ratio Lower Upper

85 100

87 34.4 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

50000

40000

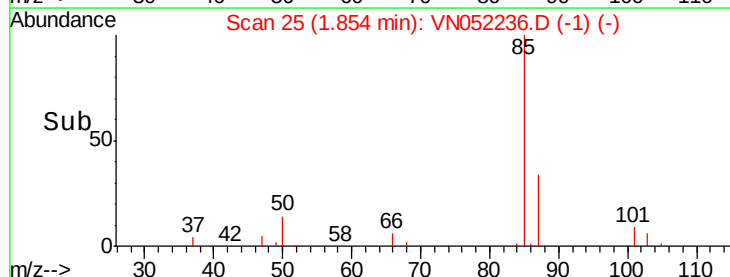
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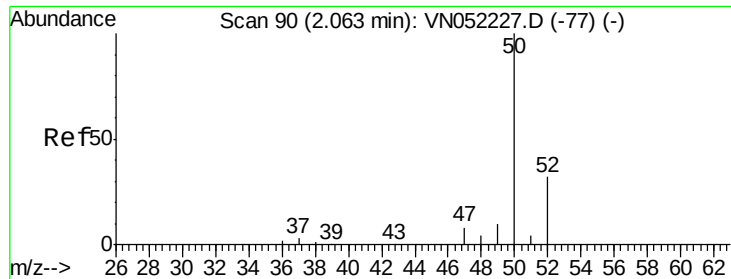
20000

10000

0

Time-->





#3

Chloromethane

Concen: 19.654 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 50 Resp: 81979

Ion Ratio Lower Upper

50 100

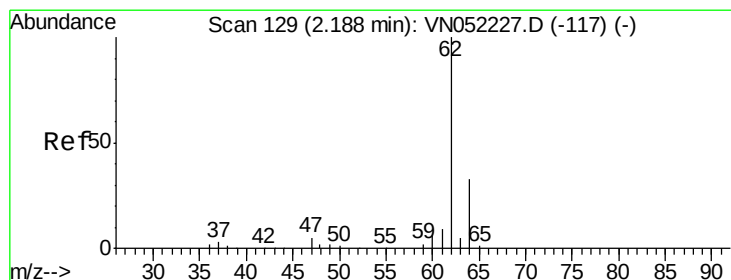
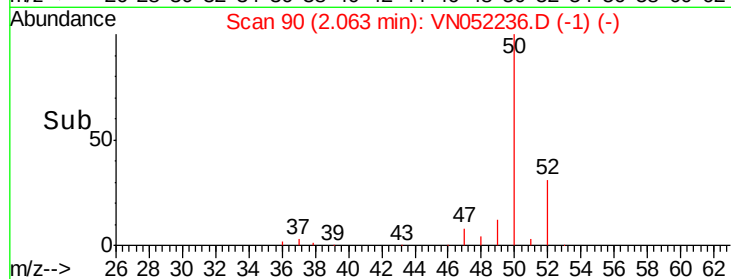
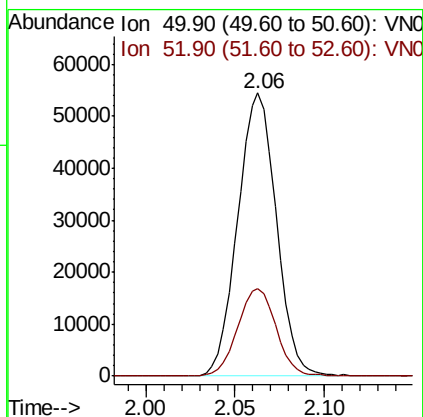
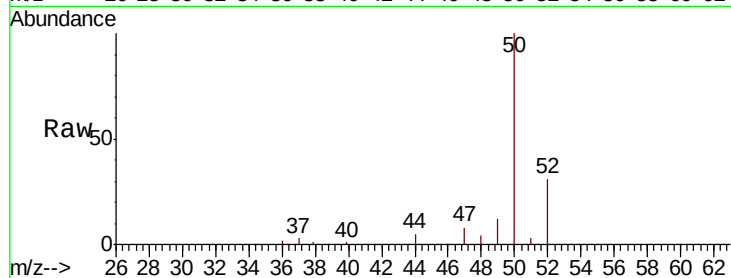
52 31.0 25.7 38.5

Manual Integrations

APPROVED

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11/12/2018 9:18:59 AM



#4

Vinyl Chloride

Concen: 20.274 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052236.D

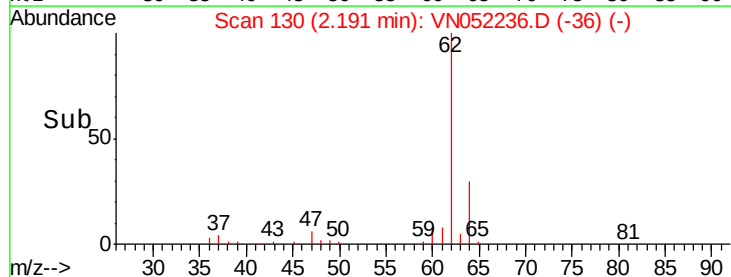
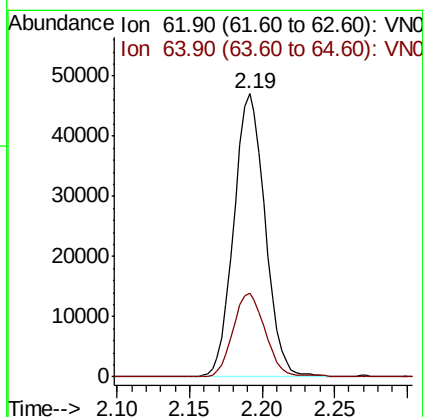
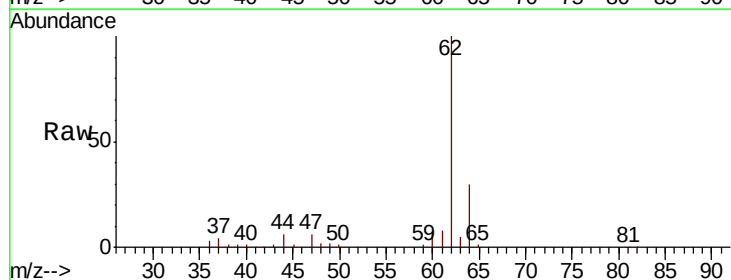
Acq: 9 Nov 2018 19:22

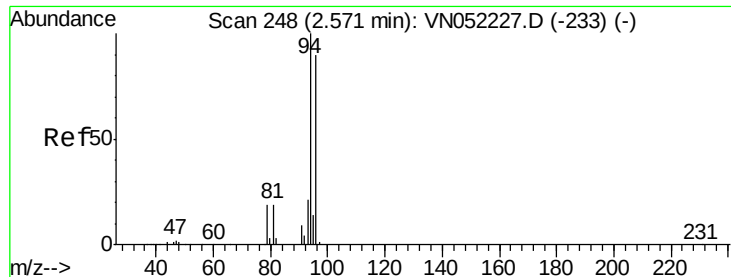
Tgt Ion: 62 Resp: 70456

Ion Ratio Lower Upper

62 100

64 29.6 26.1 39.1





#5

Bromomethane

Concen: 18.294 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 94 Resp: 40336

Ion Ratio Lower Upper

94 100

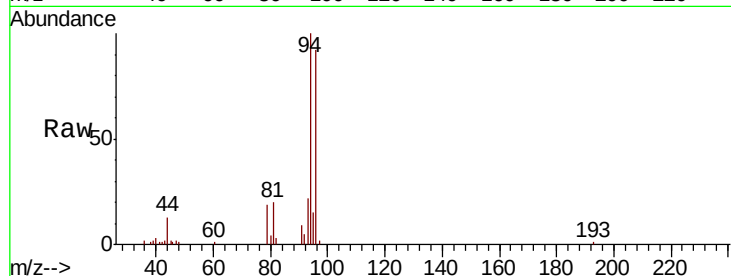
96 91.8 71.8 107.8

Manual Integrations

APPROVED

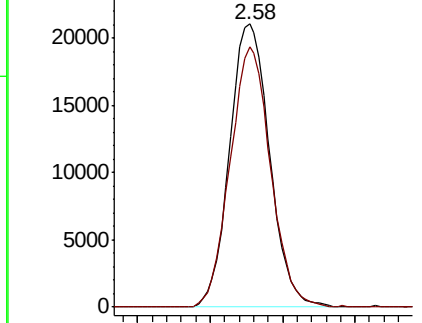
MMDadoda

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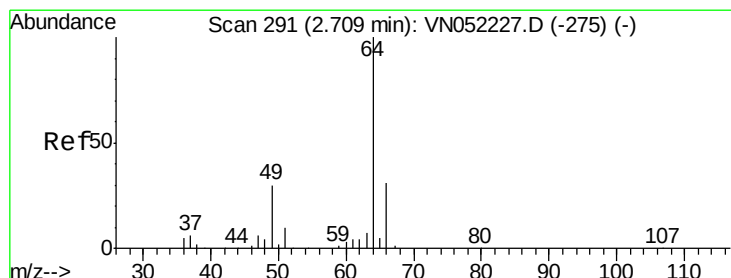
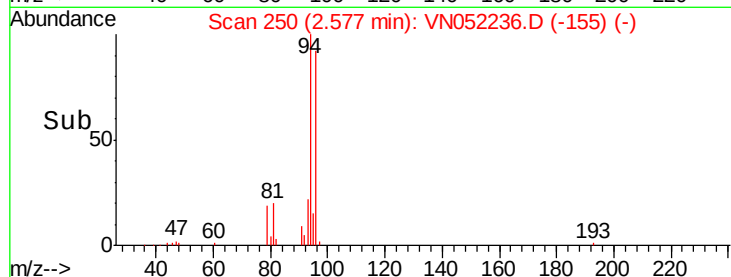


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#6

Chloroethane

Concen: 19.072 ug/l

RT: 2.72 min Scan# 293

Delta R.T. 0.01 min

Lab File: VN052236.D

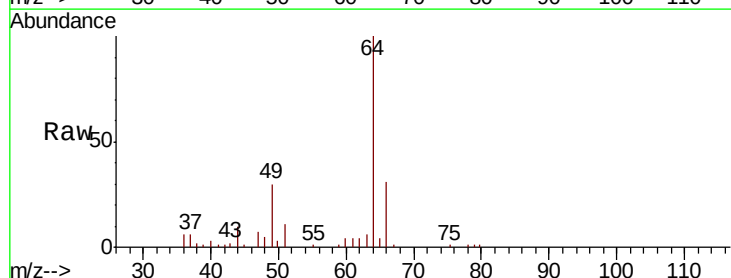
Acq: 9 Nov 2018 19:22

Tgt Ion: 64 Resp: 39359

Ion Ratio Lower Upper

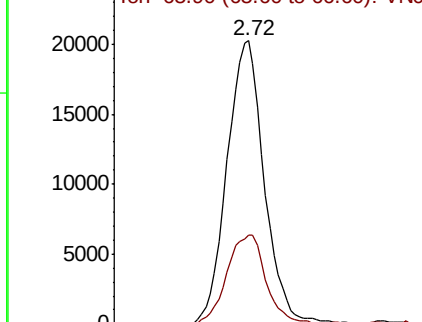
64 100

66 31.5 24.6 36.8

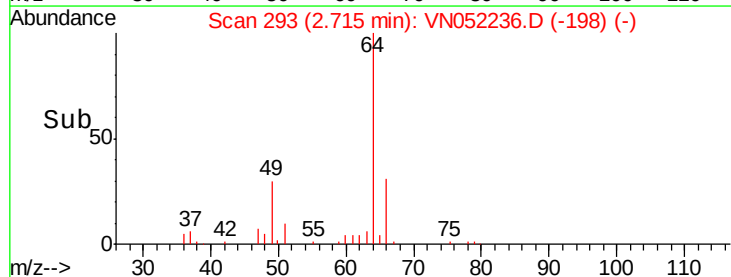


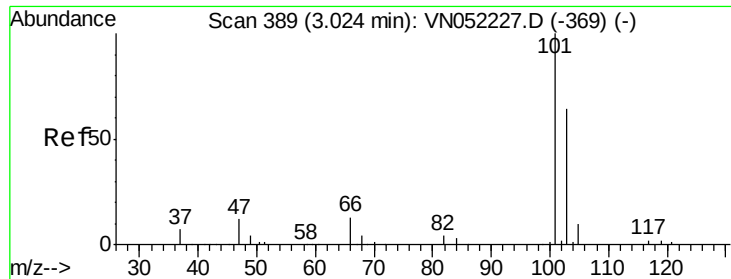
Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



Time-->





#7

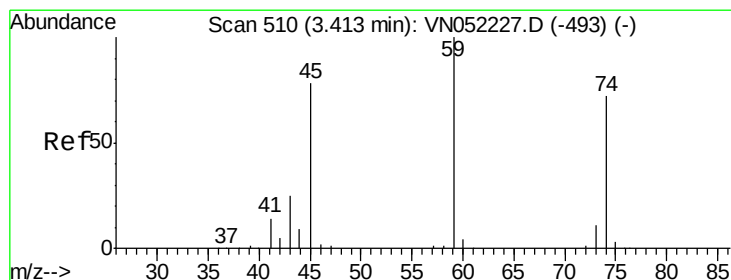
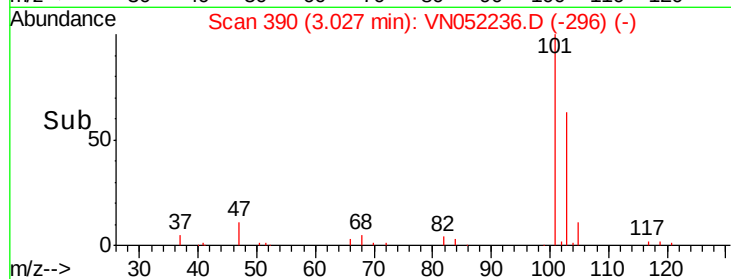
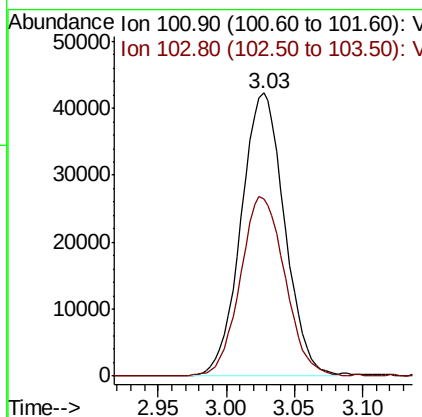
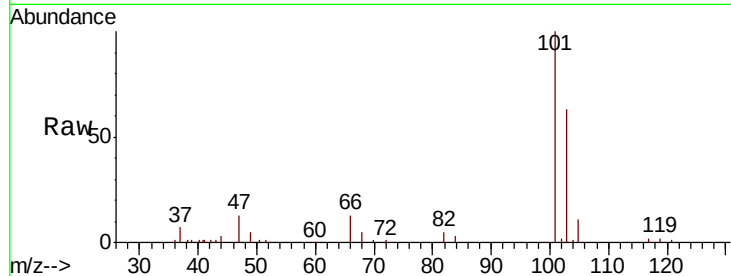
Trichlorofluoromethane
Concen: 19.385 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
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ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	51.2	76.8

Manual Integrations
APPROVED

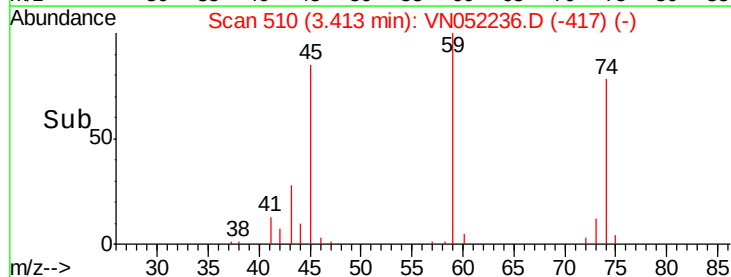
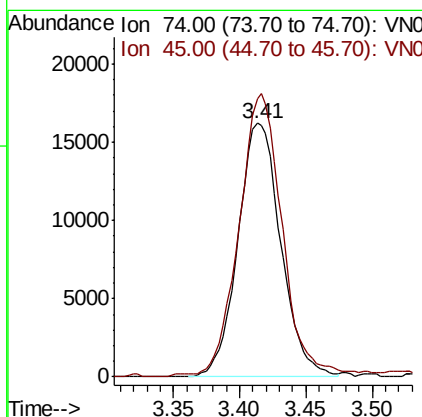
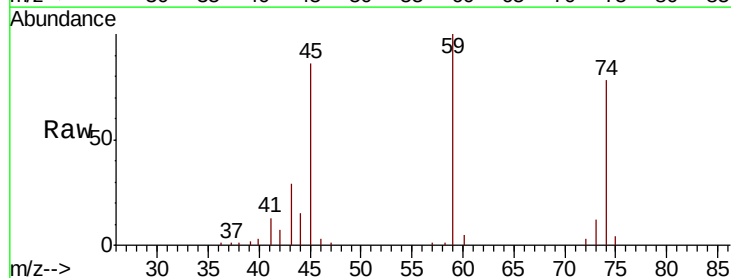
MMDadoda
11/12/2018 9:18:59 AM

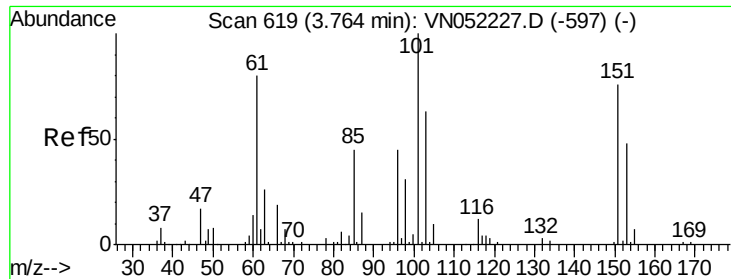


#8

Diethyl Ether
Concen: 19.222 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.8	55.5	166.7





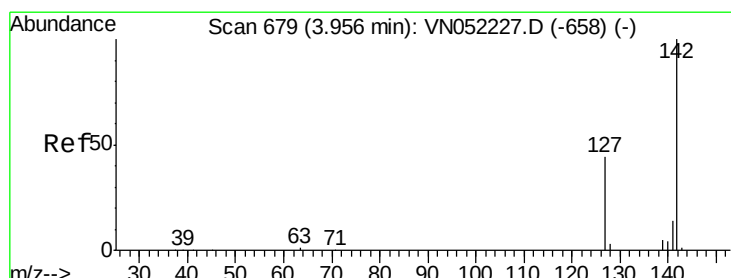
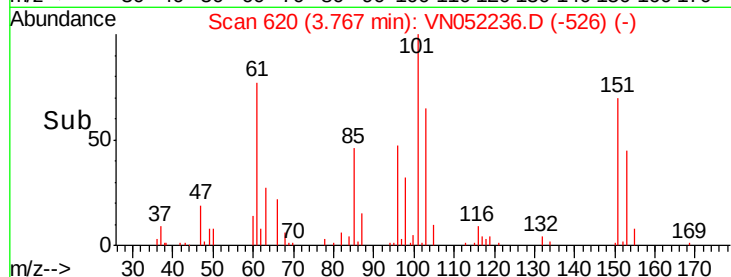
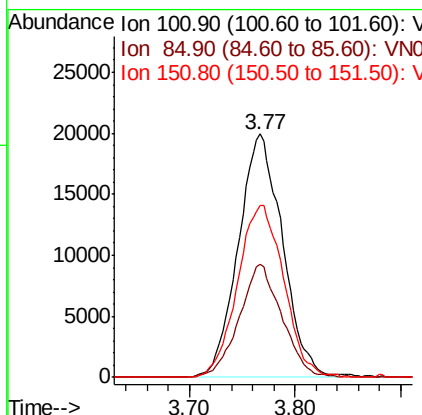
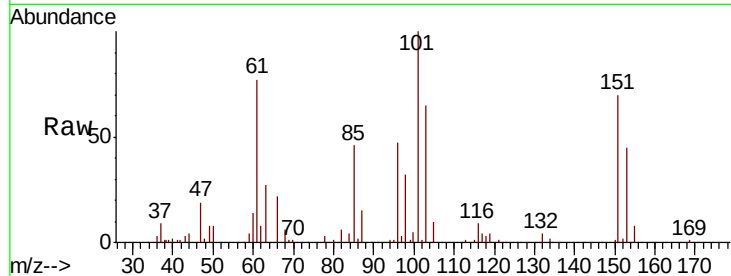
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.673 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	57955		
85	44.8	36.2	54.4	
151	73.8	59.2	88.8	

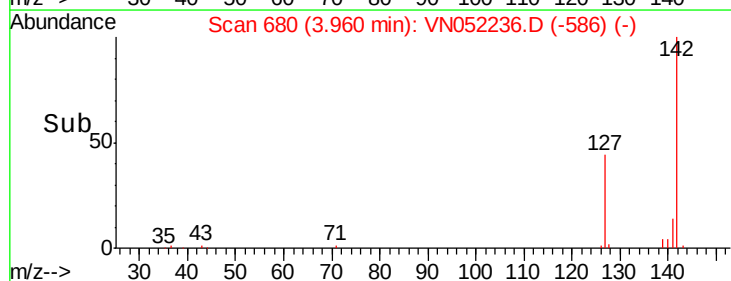
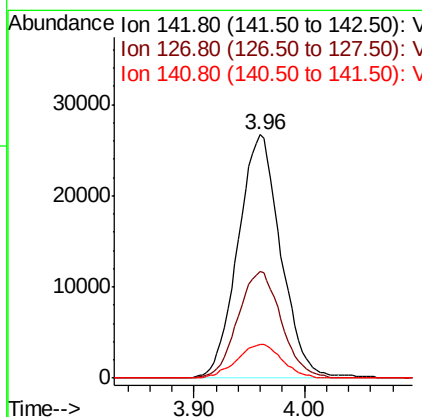
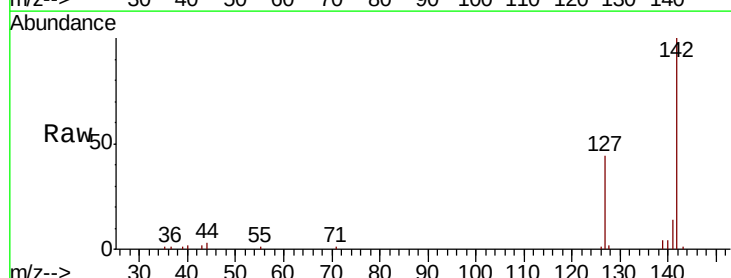
Manual Integrations
 APPROVED

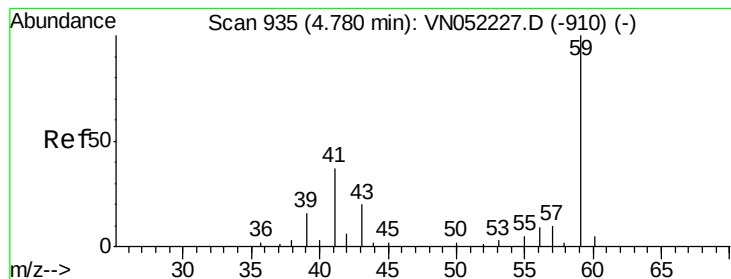
MMDadoda
 11/12/2018 9:18:59 AM



#10
 Methyl Iodide
 Concen: 17.790 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	71642		
127	44.6	35.3	52.9	
141	14.7	11.8	17.6	





#11

Tert butyl alcohol

Concen: 92.172 ug/l m

RT: 4.79 min Scan# 938

Delta R.T. 0.01 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 59 Resp: 17756

Ion Ratio Lower Upper

59 100

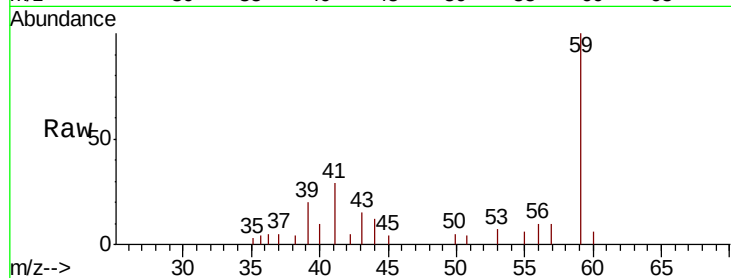
57 0.0 8.8 13.2#

Manual Integrations

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Abundance Ion 59.00 (58.70 to 59.70): VN052227.D (-910) (-)

Ion 57.00 (56.70 to 57.70): VN052227.D (-910) (-)

4.79

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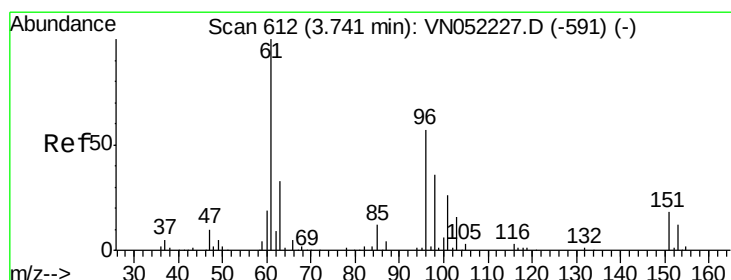
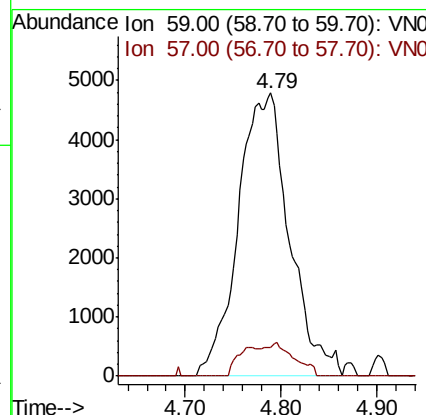
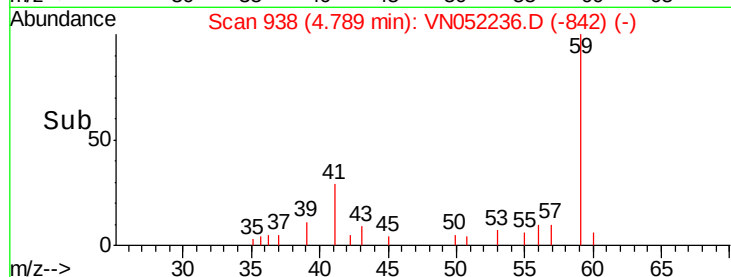
4.79

4.79

4.79

4.79

4.79



#12

1,1-Dichloroethene

Concen: 18.990 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

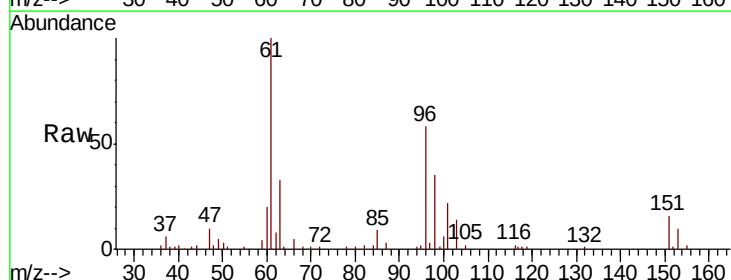
Tgt Ion: 96 Resp: 54556

Ion Ratio Lower Upper

96 100

61 171.2 141.1 211.7

98 60.3 50.3 75.5



Abundance Ion 95.90 (95.60 to 96.60): VN052227.D (-591) (-)

Ion 60.90 (60.60 to 61.60): VN052227.D (-591) (-)

Ion 97.90 (97.60 to 98.60): VN052227.D (-591) (-)

3.74

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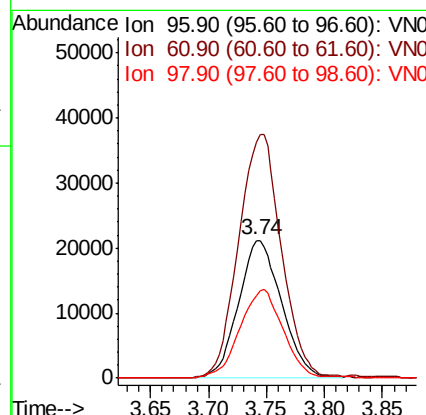
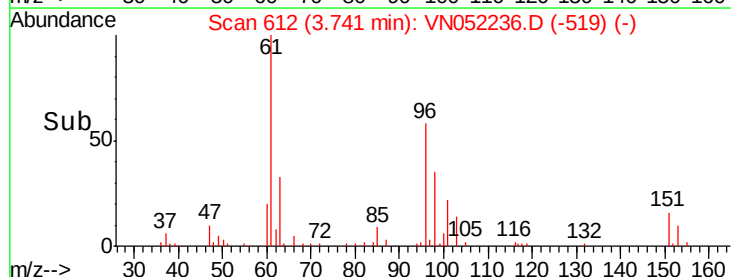
3.74

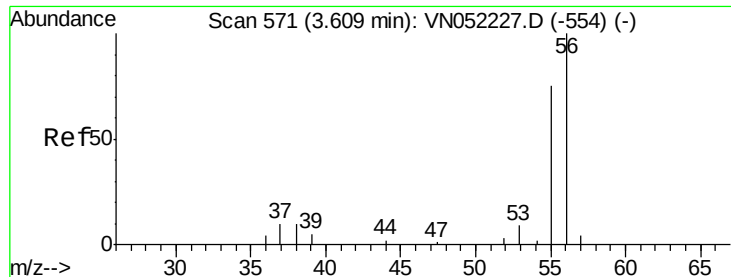
3.74

3.74

3.74

3.74





#13

Acrolein

Concen: 124.864 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 56 Resp: 31420

Ion Ratio Lower Upper

56 100

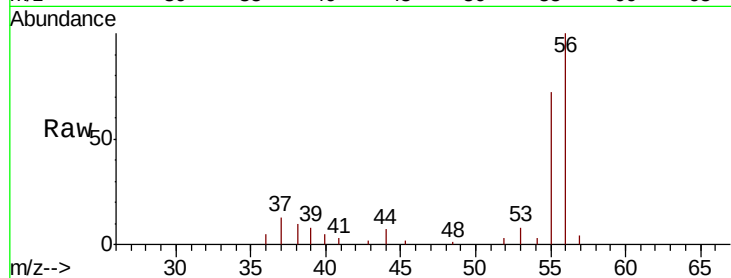
55 69.9 59.9 89.9

Manual Integrations

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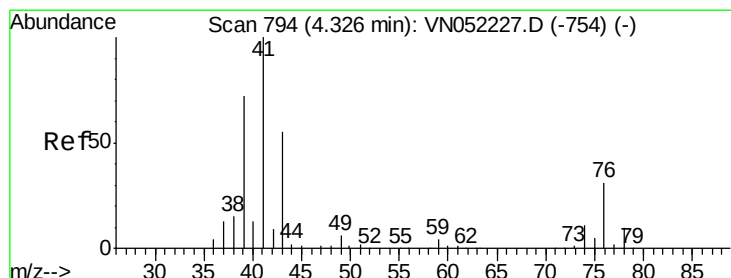
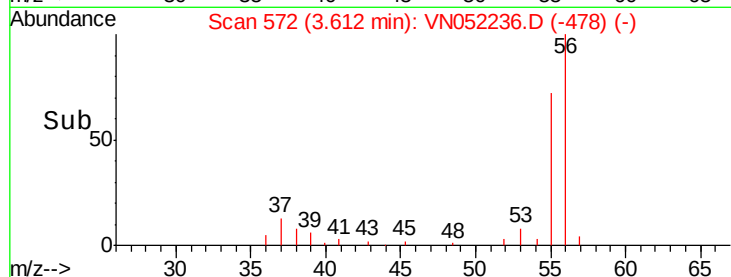
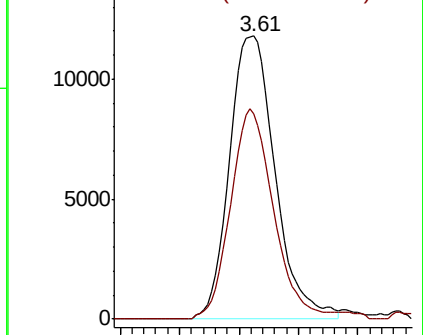
MMDadoda

11/12/2018 9:18:59 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 17.016 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

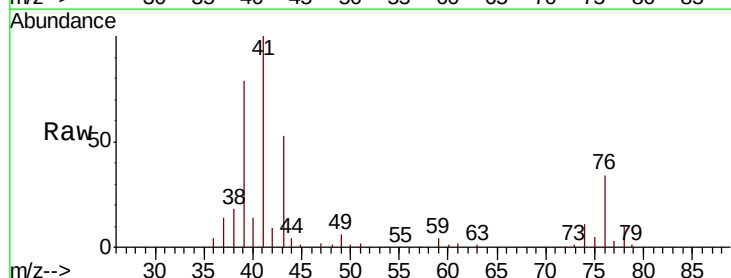
Tgt Ion: 41 Resp: 102350

Ion Ratio Lower Upper

41 100

39 77.8 55.1 82.7

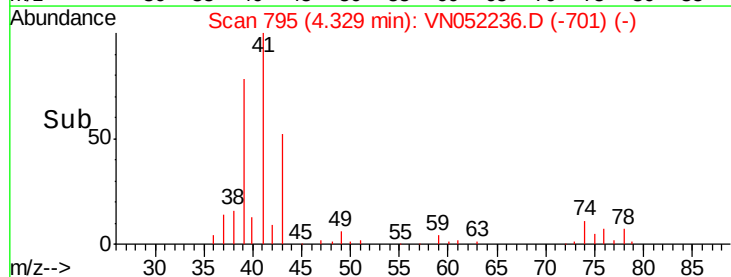
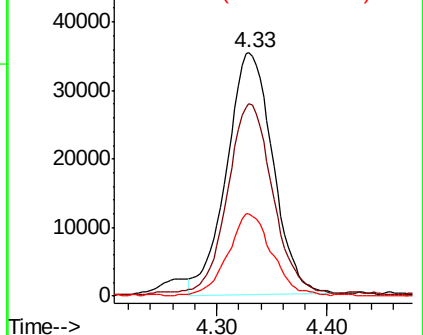
76 32.6 23.6 35.4

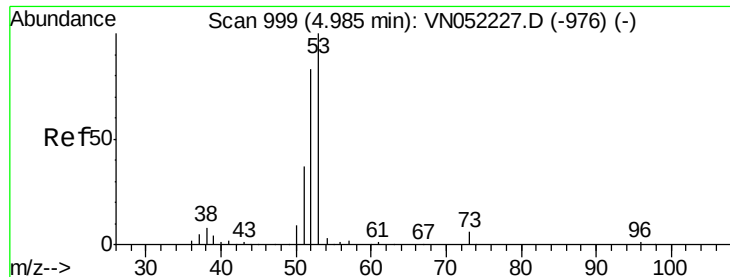


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 93.060 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

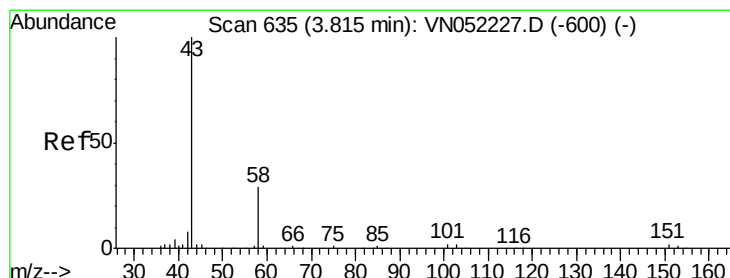
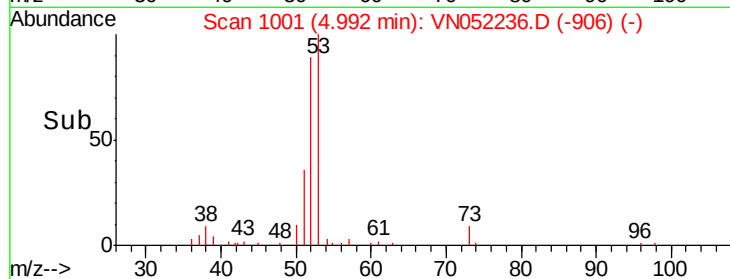
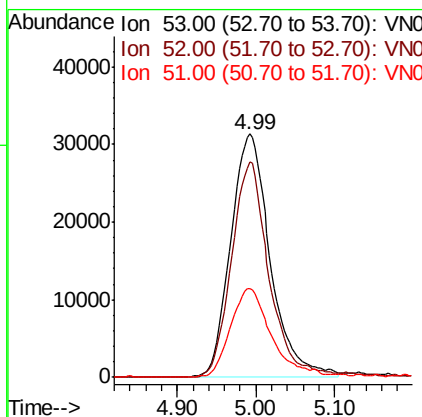
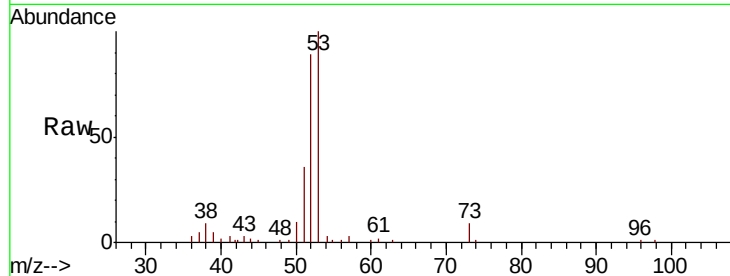
ClientSampleId :

VN1109WBS01

Tot Ion:	53	Resp:	110183
Ion Ratio	Lower	Upper	
53	100		
52	83.5	66.7	100.1
51	36.9	29.4	44.0

Manual Integrations
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#16

Acetone

Concen: 83.328 ug/l

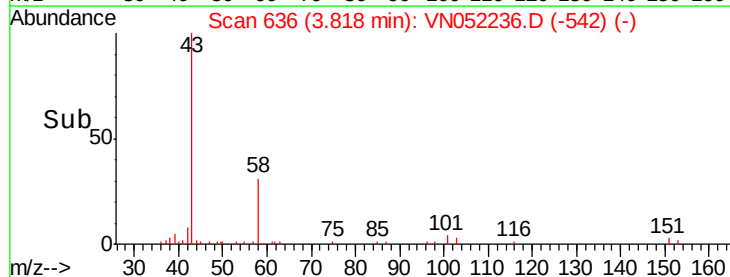
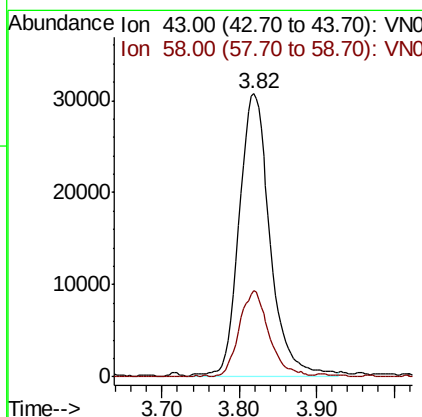
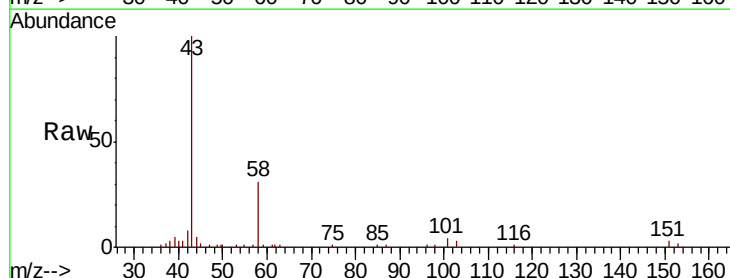
RT: 3.82 min Scan# 636

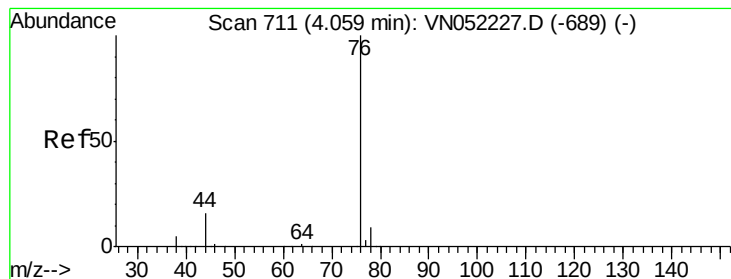
Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion:	43	Resp:	86014
Ion Ratio	Lower	Upper	
43	100		
58	30.7	23.0	34.6





#17

Carbon Disulfide

Concen: 18.967 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 76 Resp: 158063

Ion Ratio Lower Upper

76 100

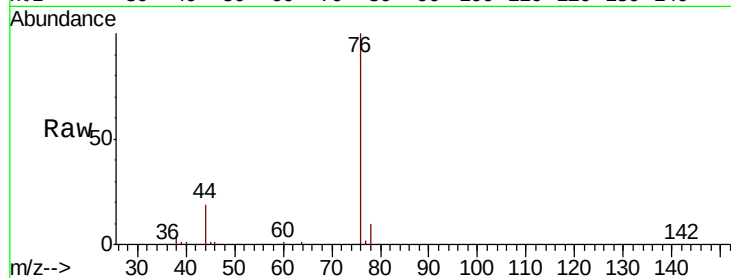
78 9.8 7.3 10.9

Manual Integrations

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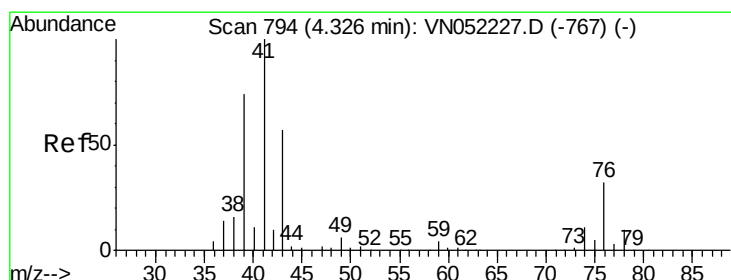
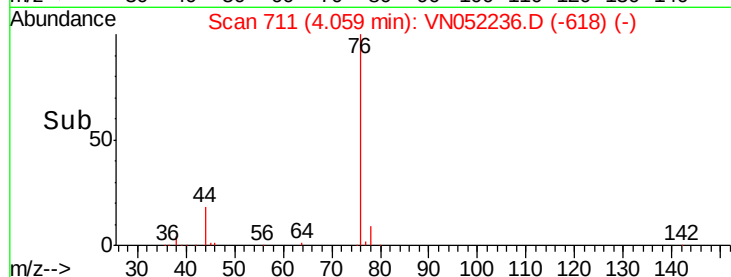
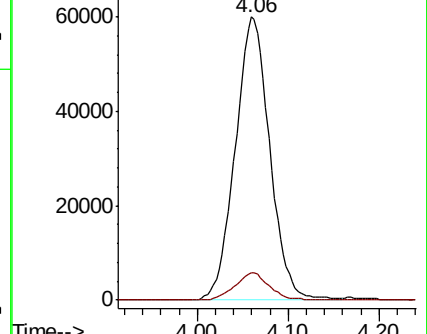
MMDadoda

11/12/2018 9:18:59 AM



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 17.879 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052236.D

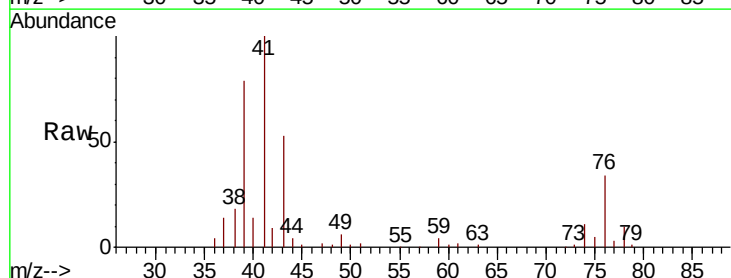
Acq: 9 Nov 2018 19:22

Tgt Ion: 43 Resp: 56146

Ion Ratio Lower Upper

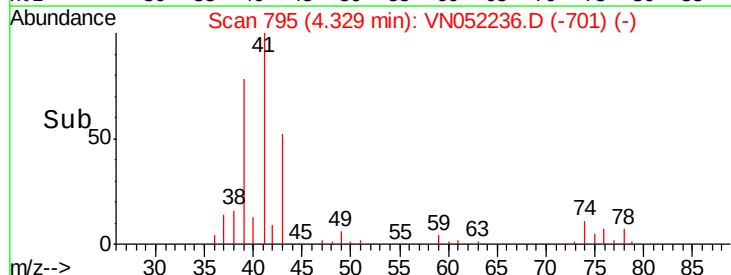
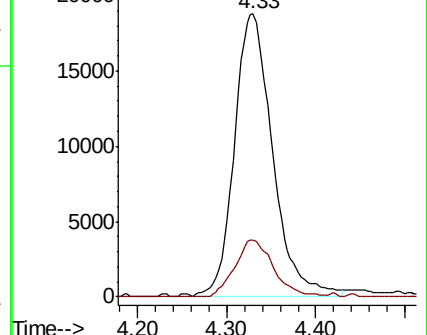
43 100

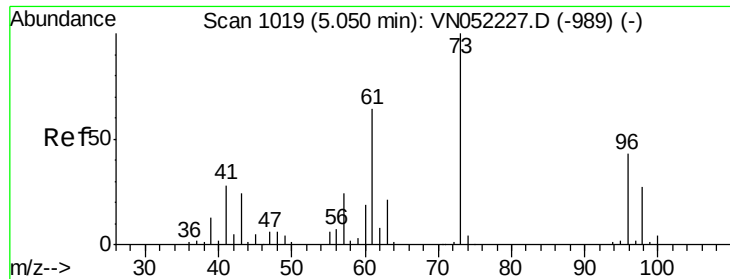
74 20.3 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC





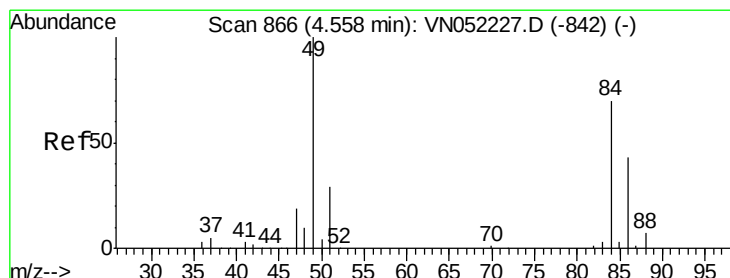
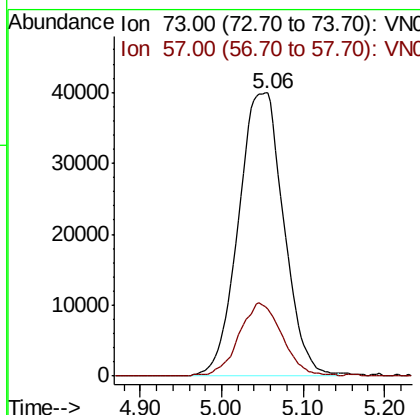
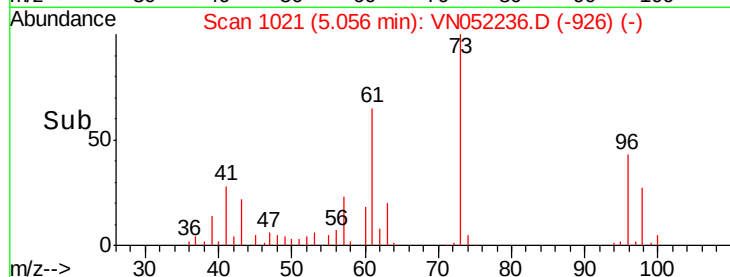
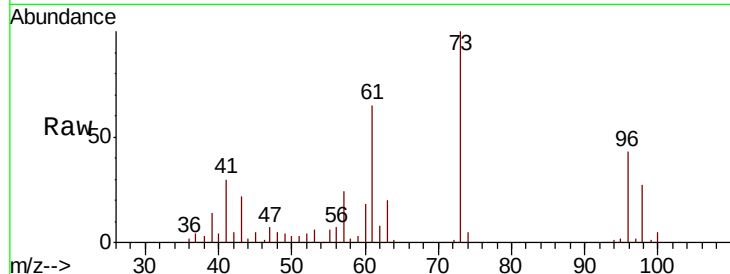
#19
Methyl tert-butyl Ether
Concen: 18.722 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion: 73 Resp: 153669
Ion Ratio Lower Upper
73 100
57 23.8 19.1 28.7

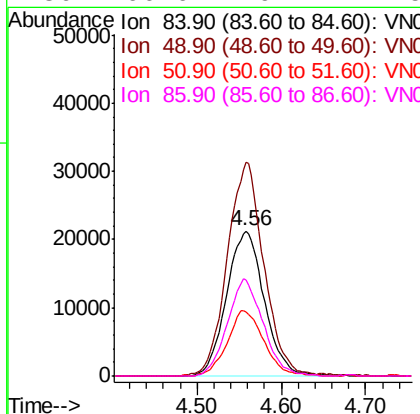
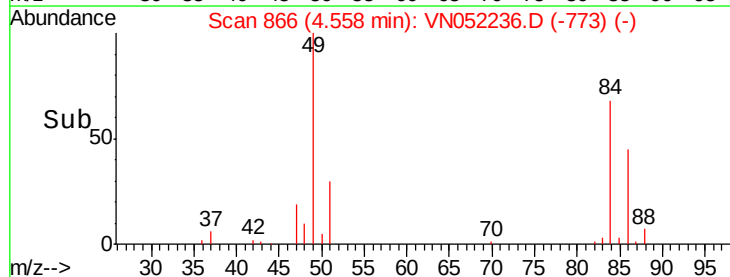
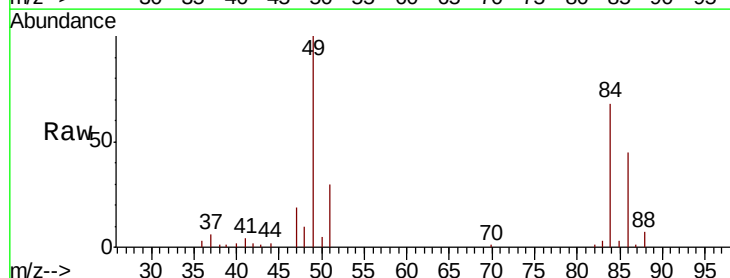
Manual Integrations
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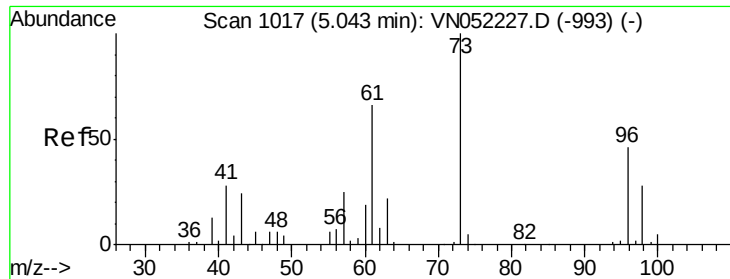
MMDadoda
11/12/2018 9:18:59 AM



#20
Methylene Chloride
Concen: 19.340 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion: 84 Resp: 66258
Ion Ratio Lower Upper
84 100
49 146.4 114.8 172.2
51 43.9 33.1 49.7
86 66.6 49.7 74.5





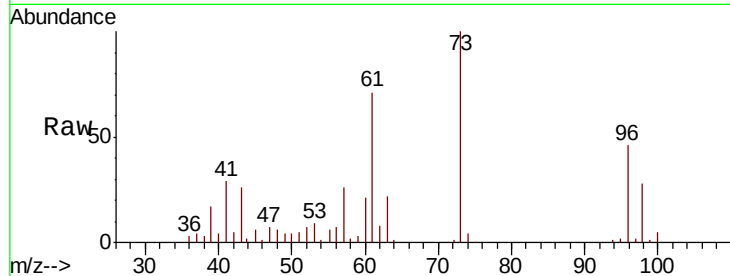
#21
trans-1,2-Dichloroethene
Concen: 19.001 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.9	115.3	172.9
98	61.9	49.5	74.3

Manual Integrations
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11/12/2018 9:18:59 AM

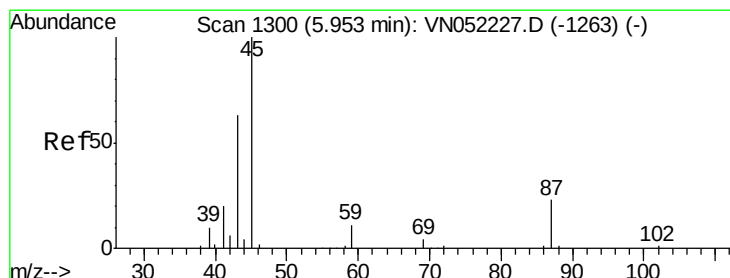
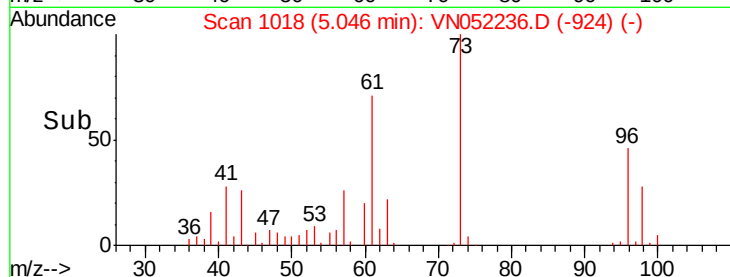
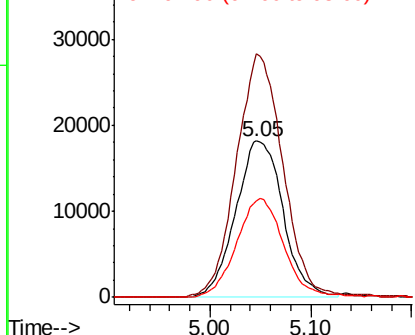


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 19.269 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.4	50.6	76.0
87	22.0	19.0	28.4
59	10.1	8.6	13.0

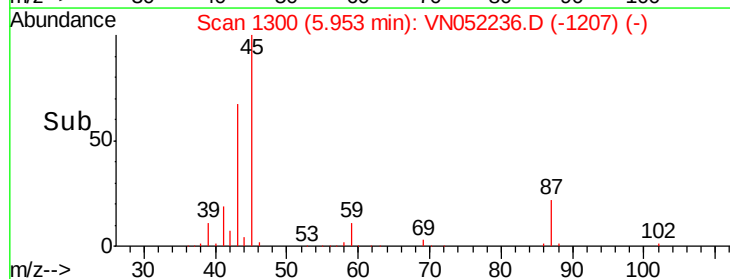
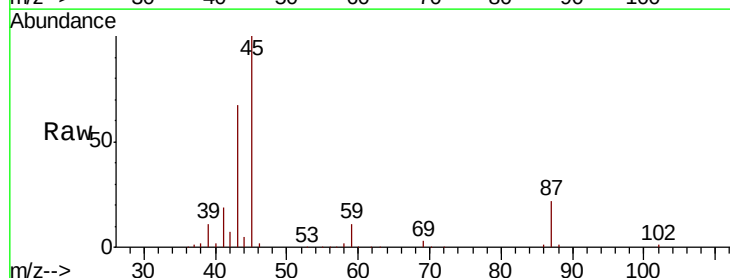
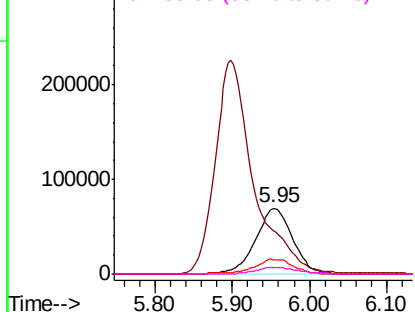
Abundance

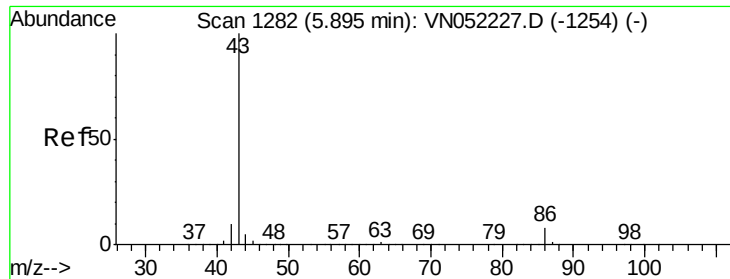
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





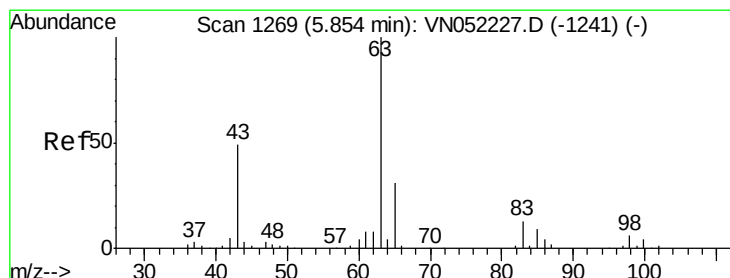
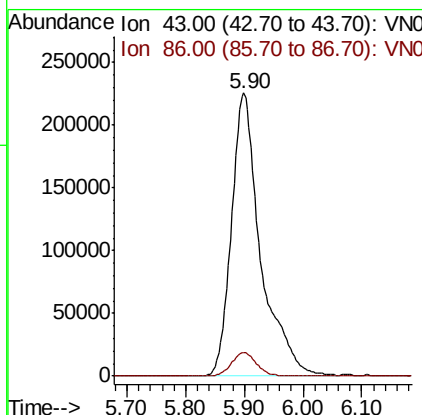
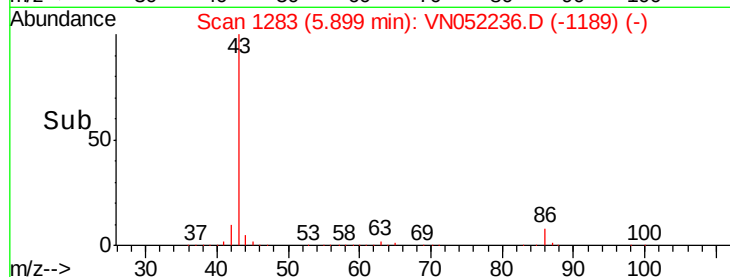
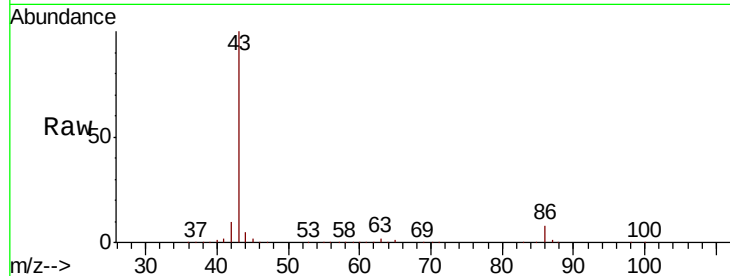
#23
 Vinyl Acetate
 Concen: 94.739 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.7	10.1

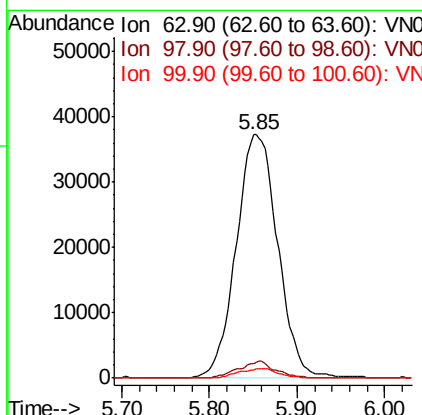
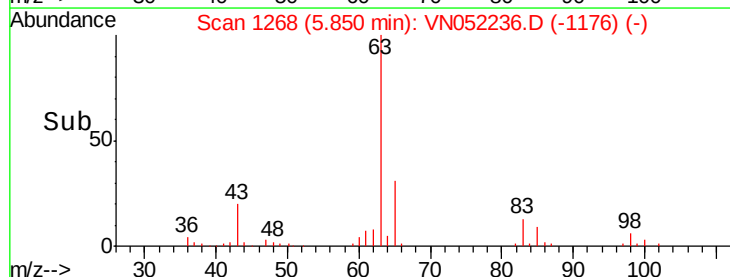
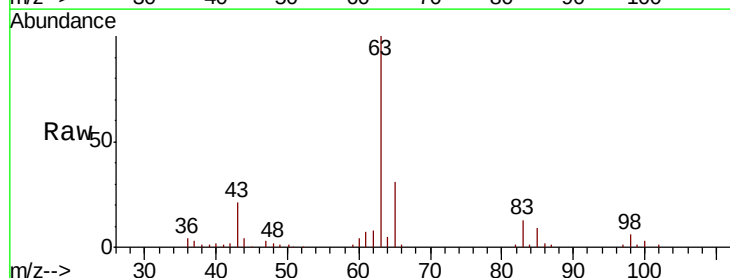
Manual Integrations
 APPROVED

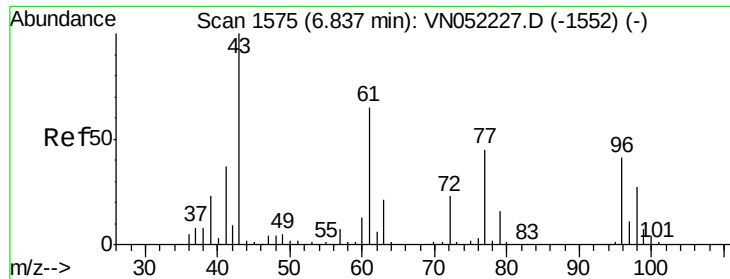
MMDadoda
 11/12/2018 9:18:59 AM



#24
 1,1-Dichloroethane
 Concen: 19.248 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.2	2.9	8.6
100	3.4	2.1	6.2





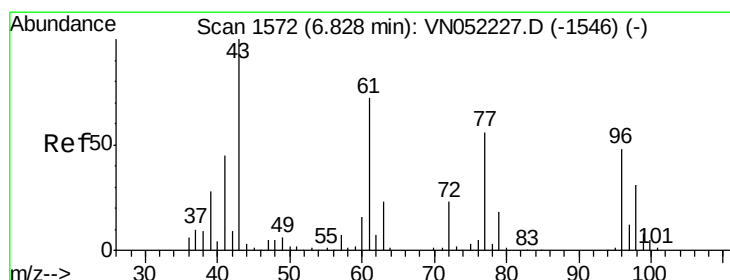
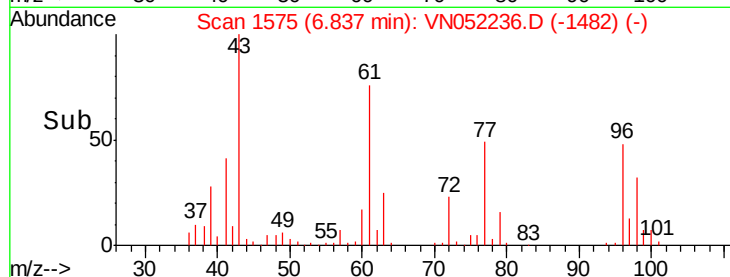
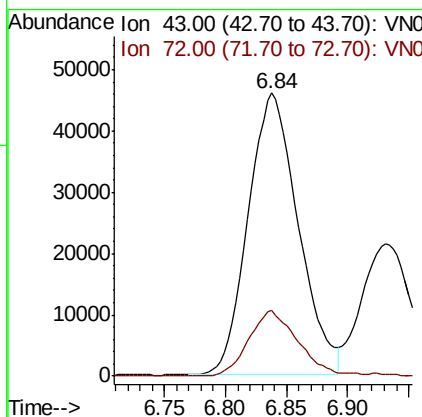
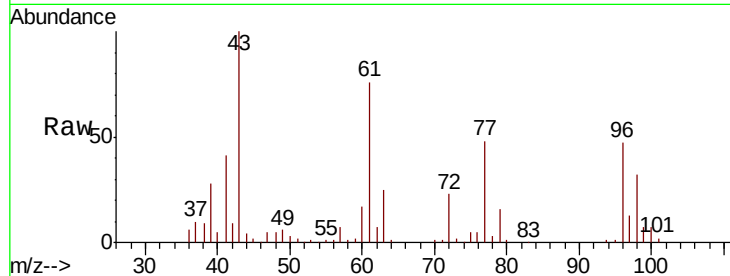
#25
2-Butanone
Concen: 81.786 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion: 43 Resp: 131118
Ion Ratio Lower Upper
43 100
72 23.1 18.6 27.8

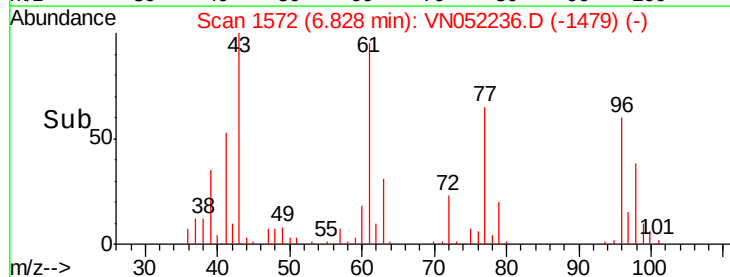
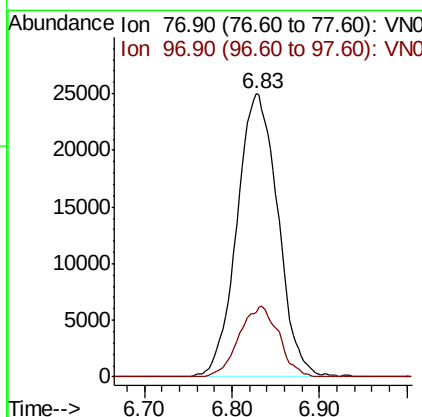
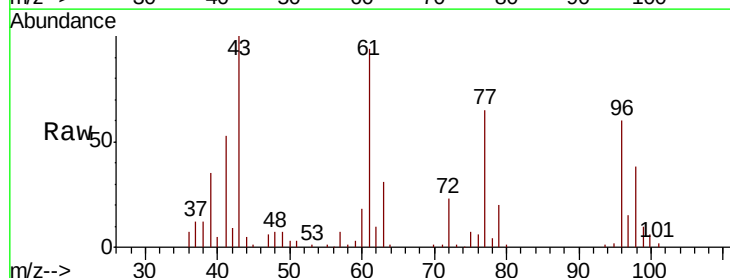
Manual Integrations
APPROVED

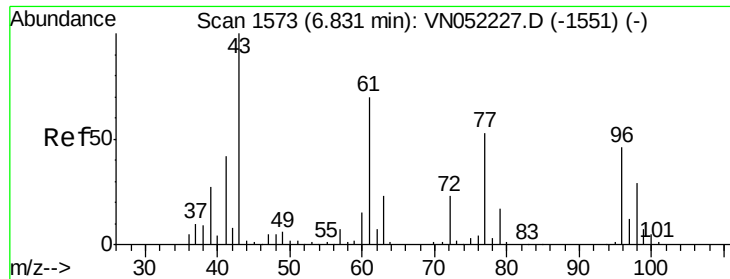
MMDadoda
11/12/2018 9:18:59 AM



#26
2,2-Dichloropropane
Concen: 17.450 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion: 77 Resp: 81170
Ion Ratio Lower Upper
77 100
97 24.3 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 19.422 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

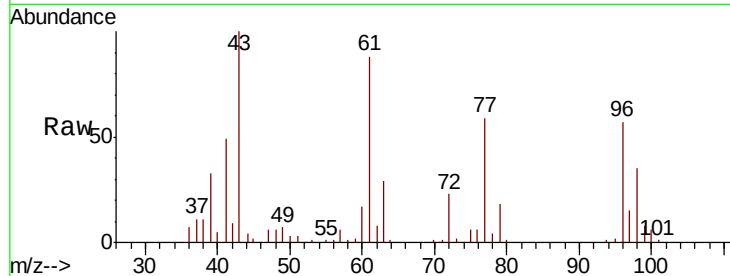
ClientSampleId :

VN1109WBS01

Tot Ion:	96	Resp:	67879
Ion	Ratio	Lower	Upper
96	100		
61	157.8	0.0	313.4
98	65.1	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
11/12/2018 9:18:59 AM

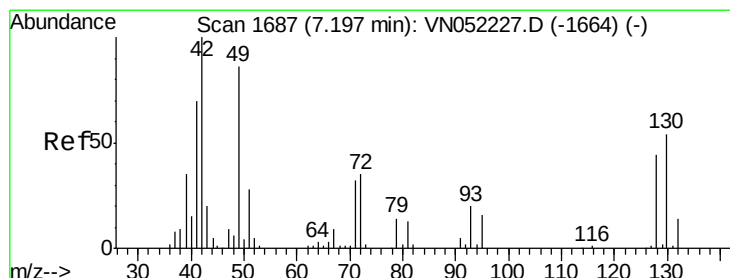
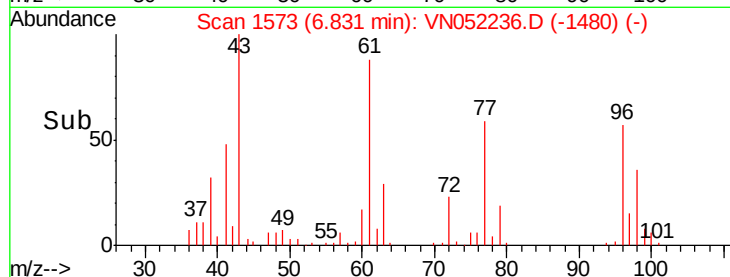
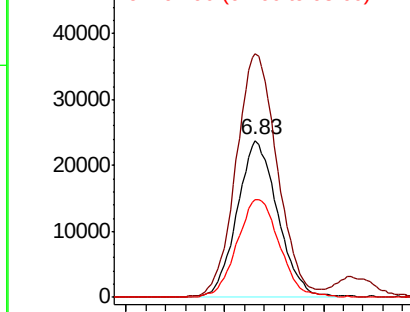


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 21.676 ug/l

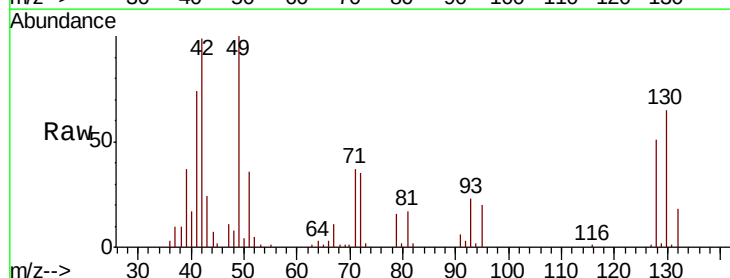
RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion:	49	Resp:	68210
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	3.8
130	63.2	51.4	77.2

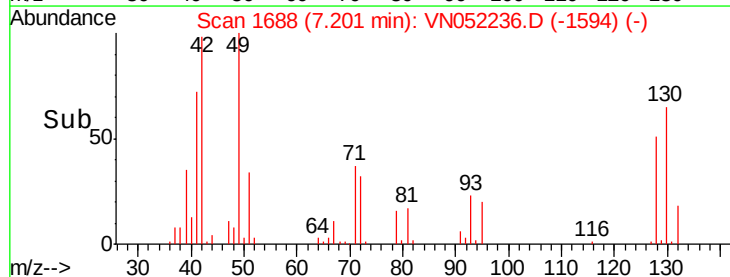
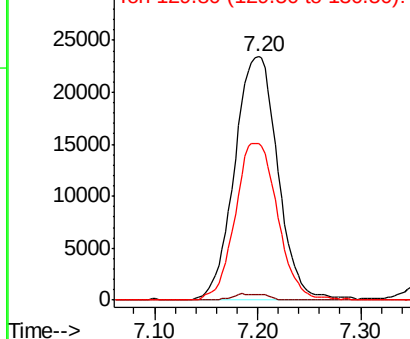


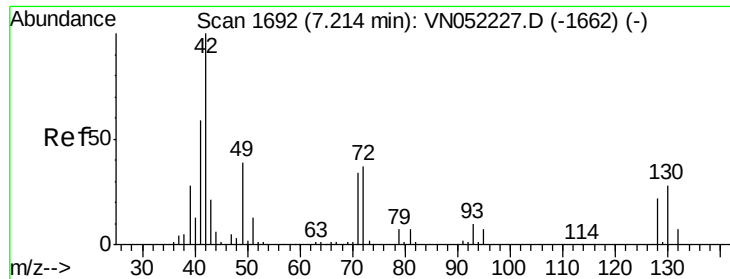
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





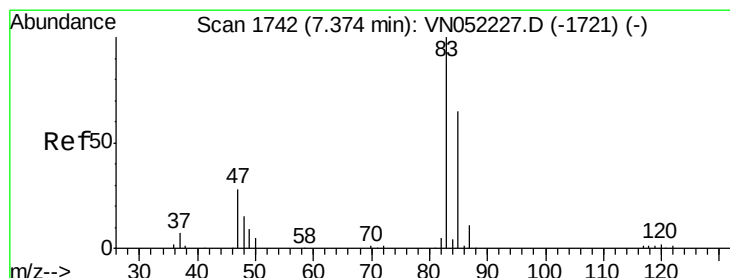
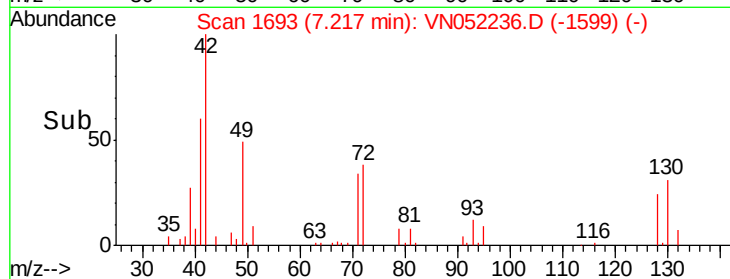
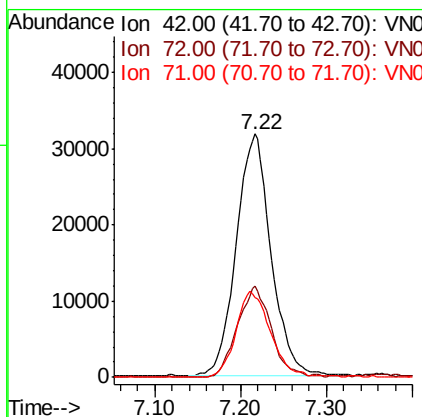
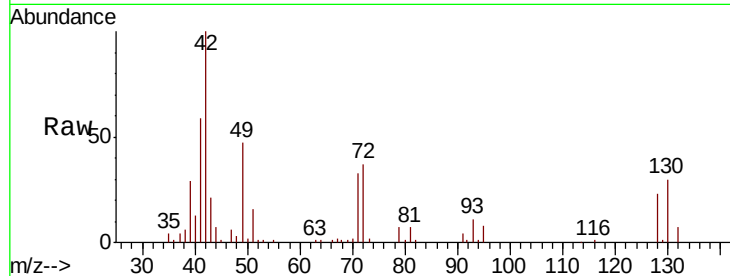
#29
Tetrahydrofuran
Concen: 85.111 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.3	28.6	43.0
71	35.5	27.1	40.7

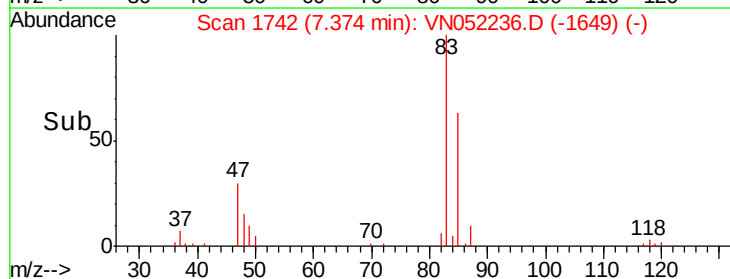
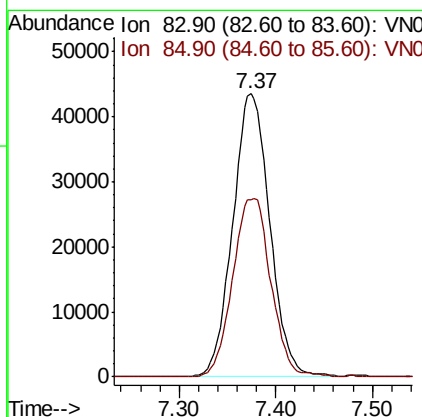
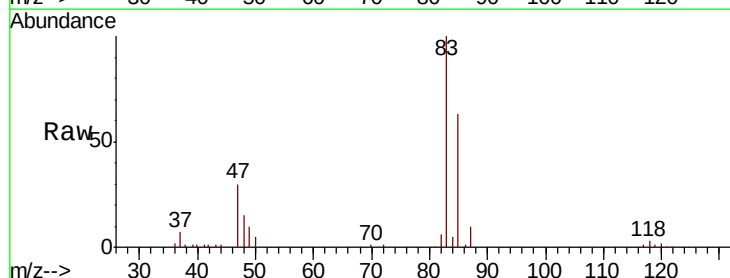
Manual Integrations
APPROVED

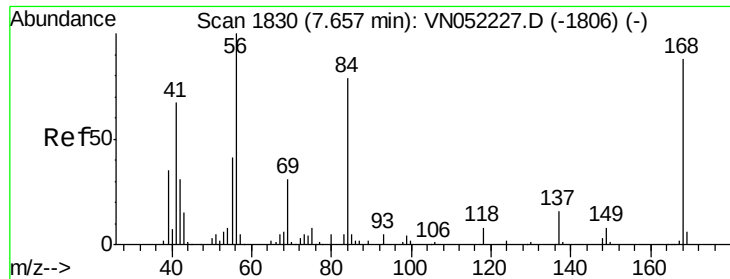
MMDadoda
11/12/2018 9:18:59 AM



#30
Chloroform
Concen: 19.237 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.8	77.6





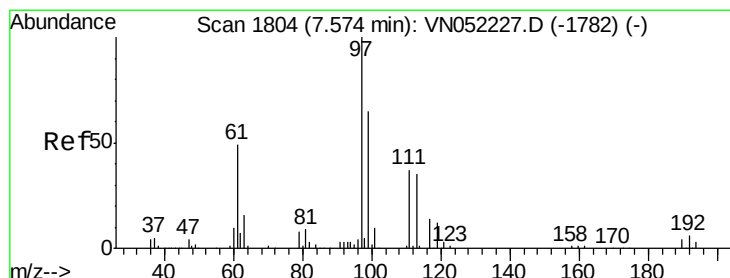
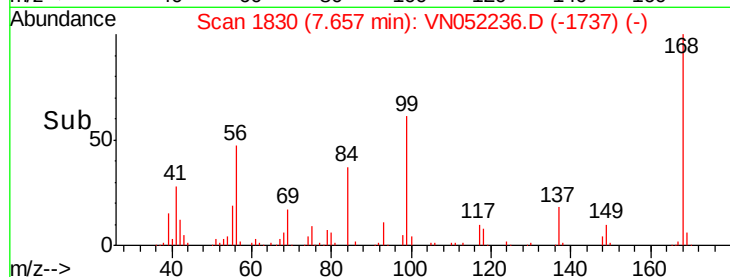
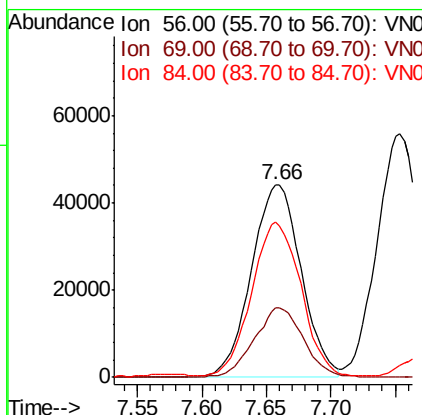
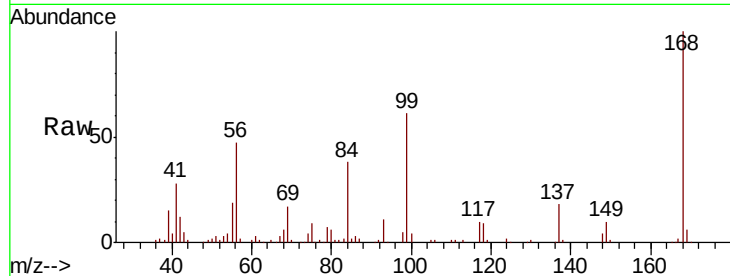
#31
Cyclohexane
Concen: 19.746 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.1	24.8	37.2
84	79.8	63.1	94.7

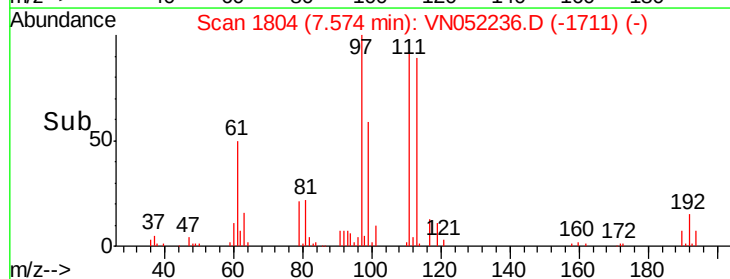
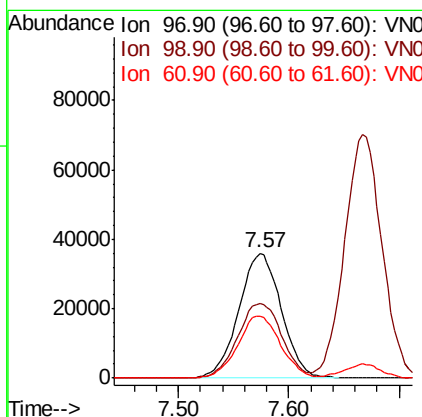
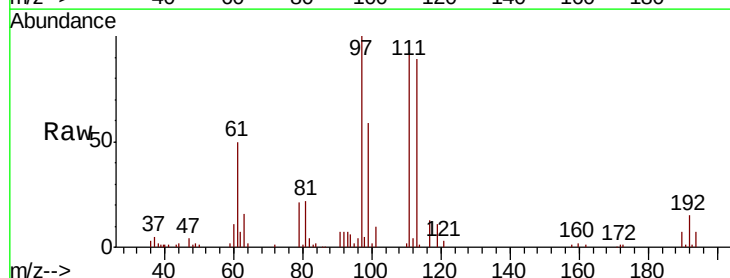
Manual Integrations
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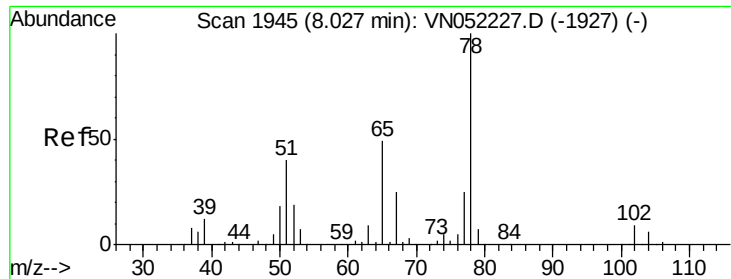
MMDadoda
11/12/2018 9:18:59 AM



#32
1,1,1-Trichloroethane
Concen: 19.548 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.1	51.9	77.9
61	50.2	40.2	60.4





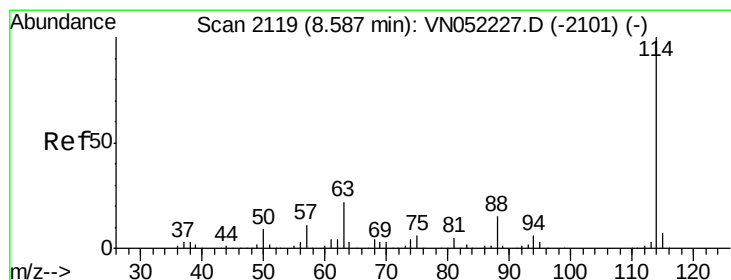
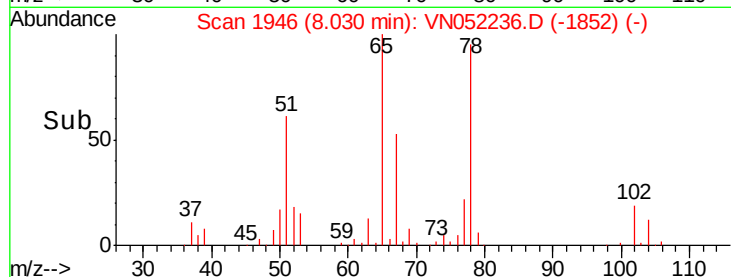
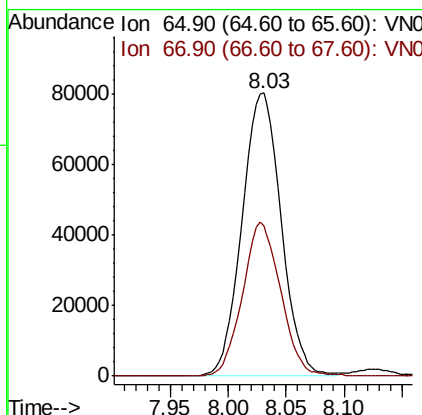
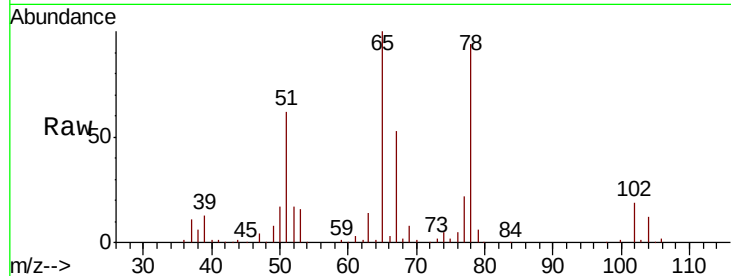
#33
 1,2-Dichloroethane-d4
 Concen: 19.548 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	189717		
67	52.9	0.0	106.6	

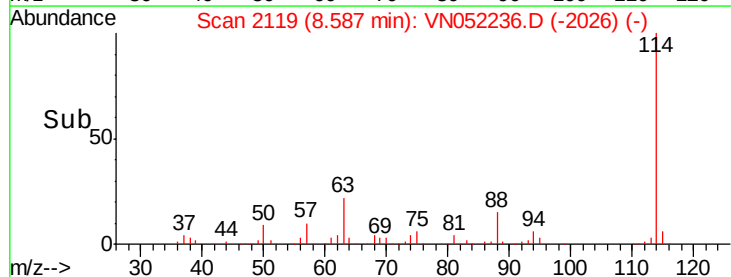
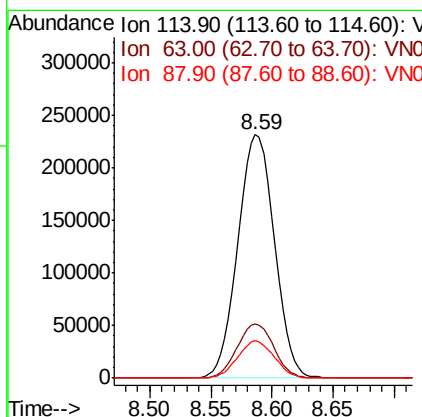
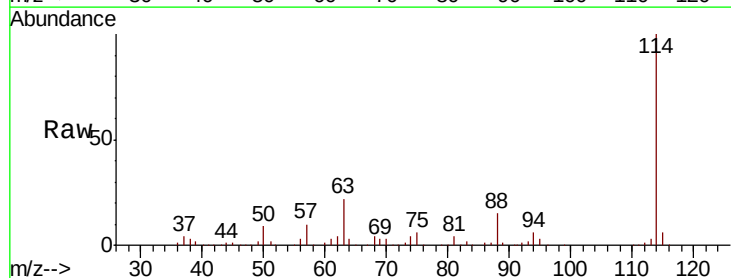
Manual Integrations
 APPROVED

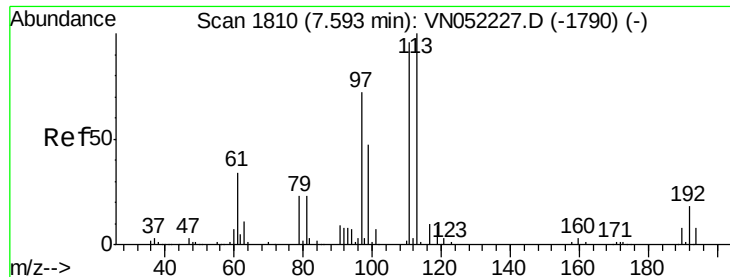
MMDadoda
 11/12/2018 9:18:59 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	480709		
63	22.4	0.0	43.4	
88	15.3	0.0	30.2	





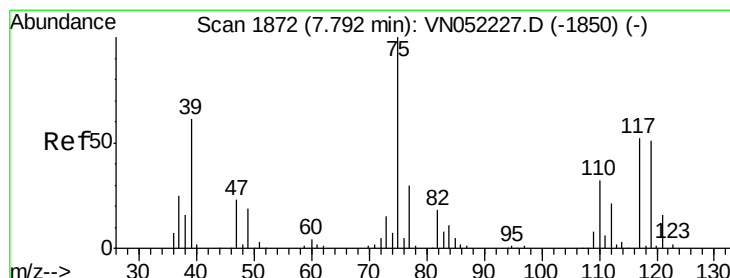
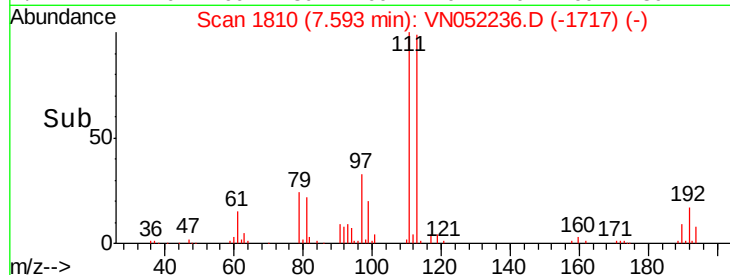
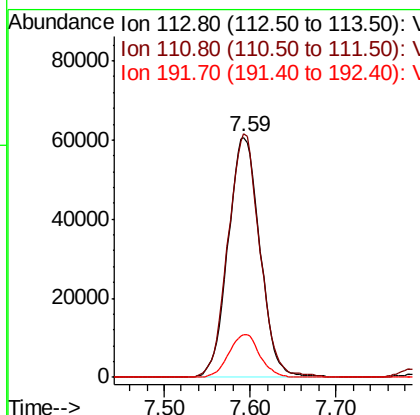
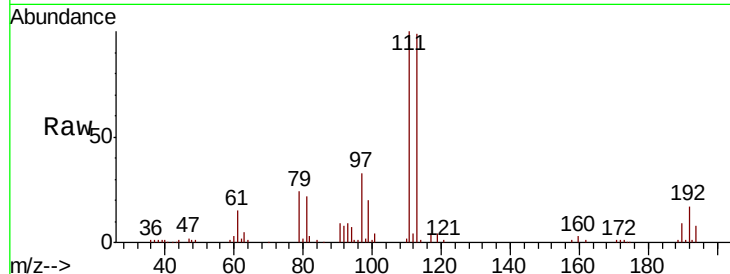
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	156108		
111	101.3	80.2	120.4	
192	17.3	14.1	21.1	

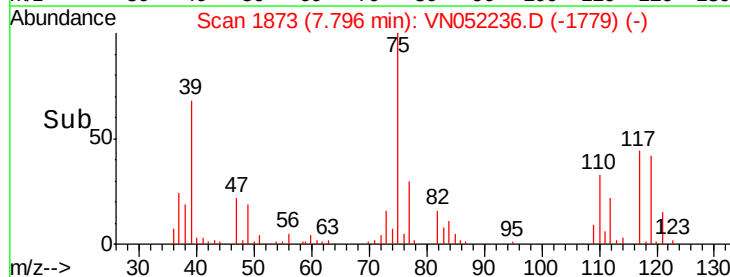
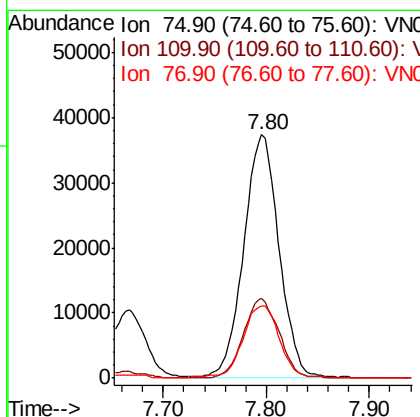
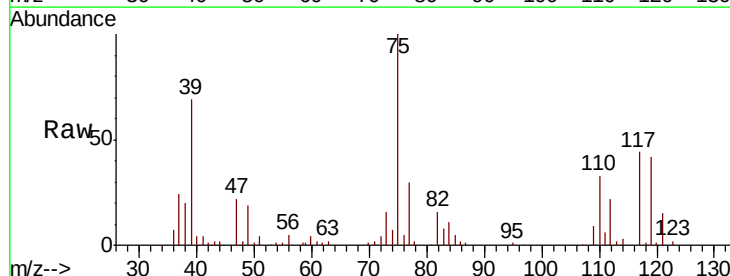
Manual Integrations
 APPROVED

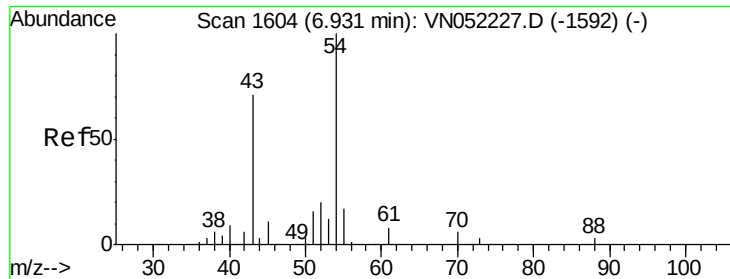
MMDadoda
 11/12/2018 9:18:59 AM



#36
 1,1-Dichloropropene
 Concen: 18.239 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	88498		
110	33.0	16.4	49.4	
77	30.8	23.9	35.9	





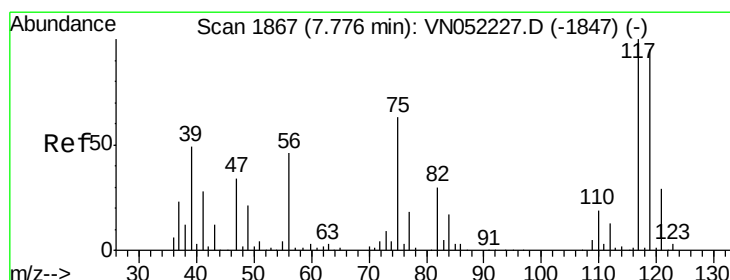
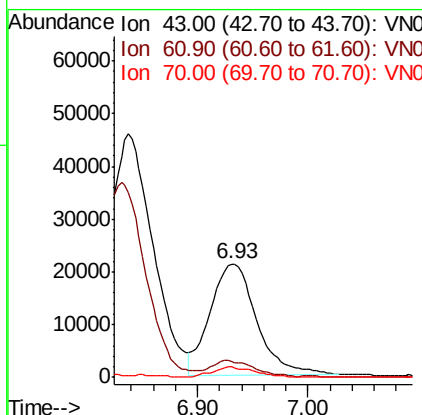
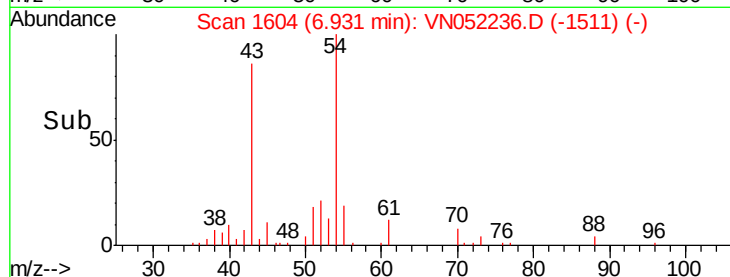
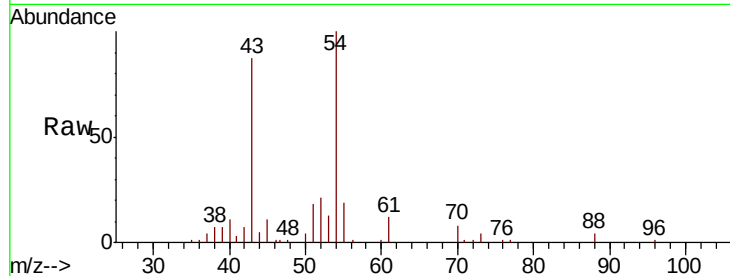
#37
Ethyl Acetate
Concen: 16.939 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	43	Ratio	Lower	Upper
43	100			
61	13.1	10.0	15.0	
70	8.6	6.9	10.3	

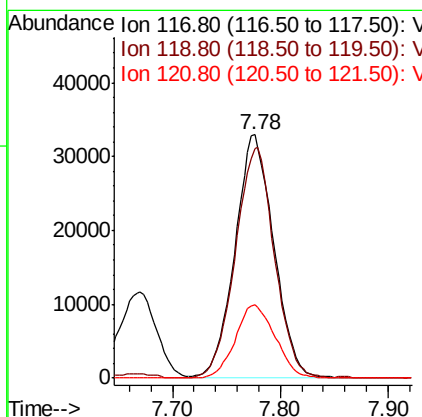
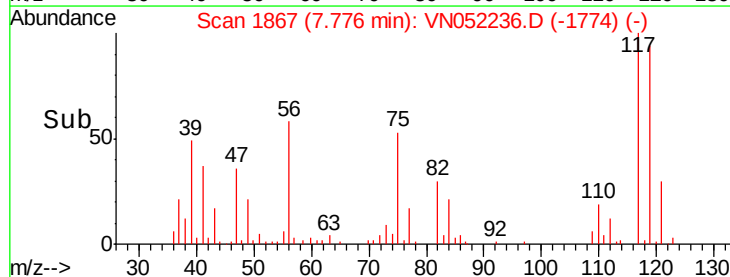
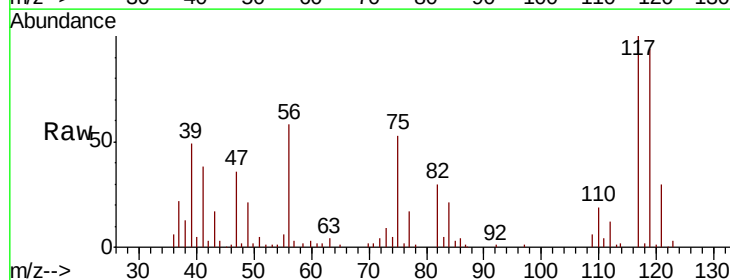
Manual Integrations
APPROVED

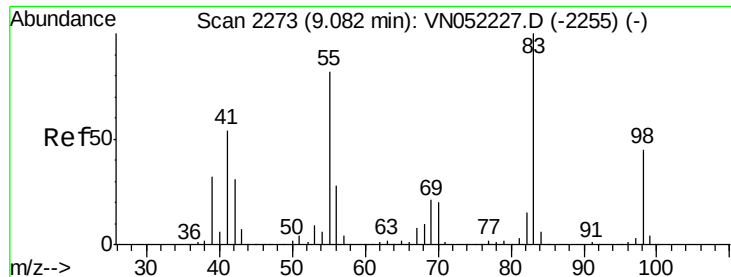
MMDadoda
11/12/2018 9:18:59 AM



#38
Carbon Tetrachloride
Concen: 18.782 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	94.3	75.8	113.8	
121	30.0	23.4	35.2	





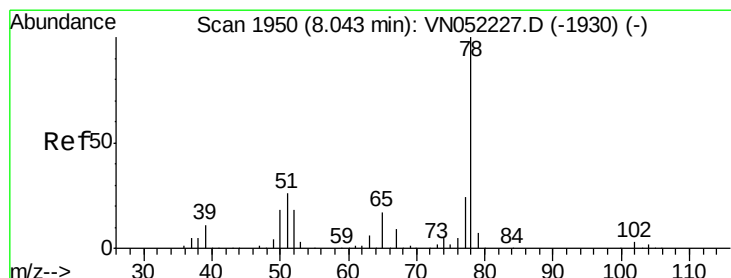
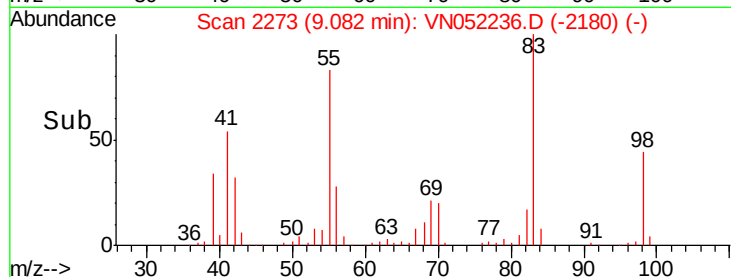
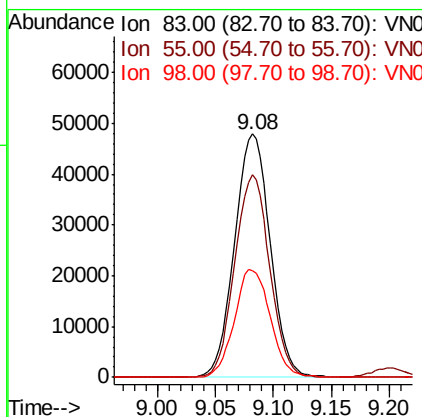
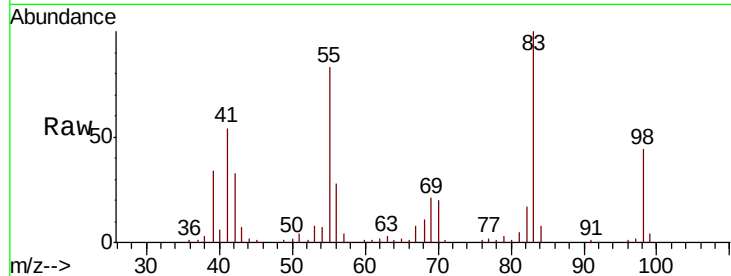
#39
Methylvlcyclohexane
Concen: 18.528 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	83.00	Resp	102541
Ion Ratio	100	Lower	Upper
83	100		
55	83.0	65.2	97.8
98	43.9	36.3	54.5

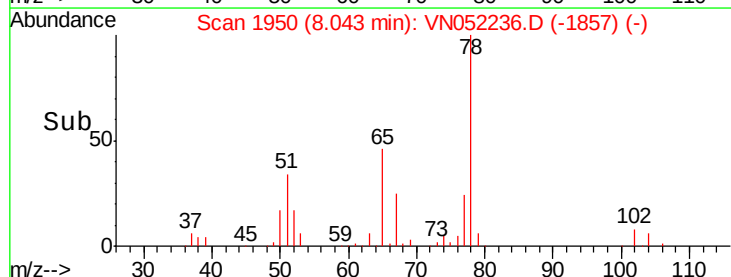
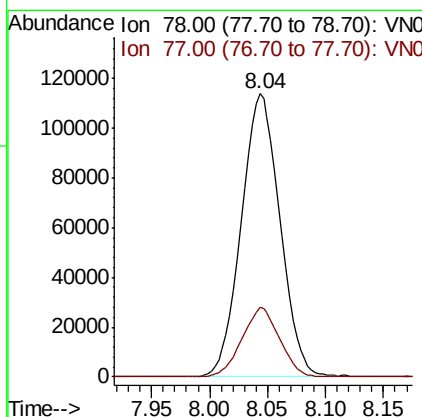
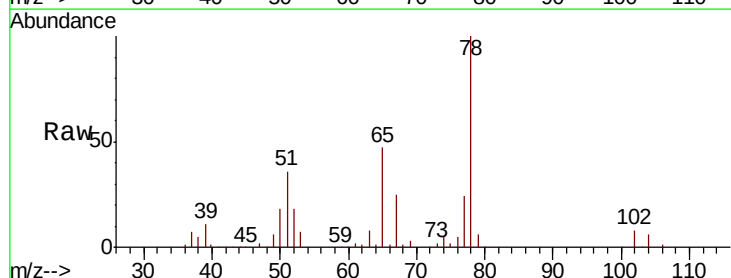
Manual Integrations
APPROVED

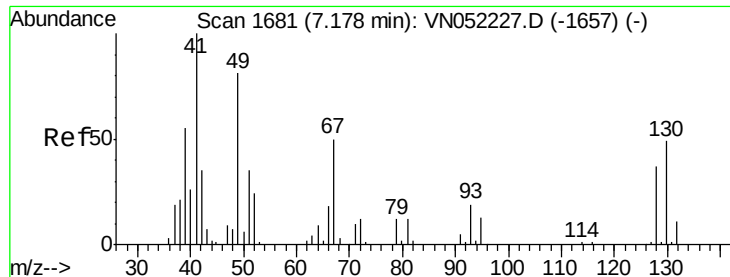
MMDadoda
11/12/2018 9:18:59 AM



#40
Benzene
Concen: 19.019 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	78.00	Resp	264211
Ion Ratio	100	Lower	Upper
78	100		
77	24.5	19.2	28.8





#41

Methacrylonitrile

Concen: 14.126 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 41 Resp: 29954
Ion Ratio Lower Upper

41 100

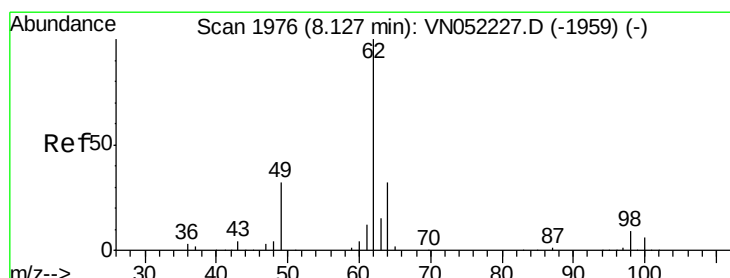
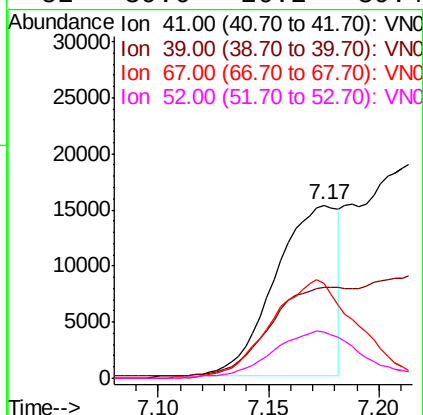
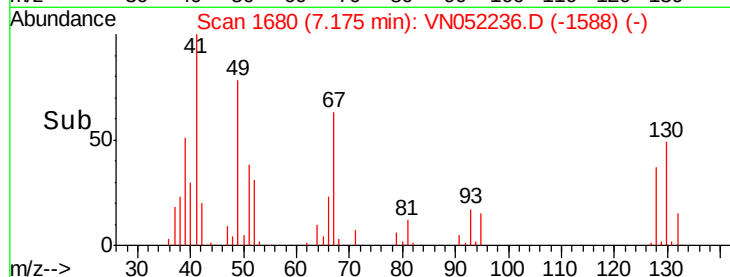
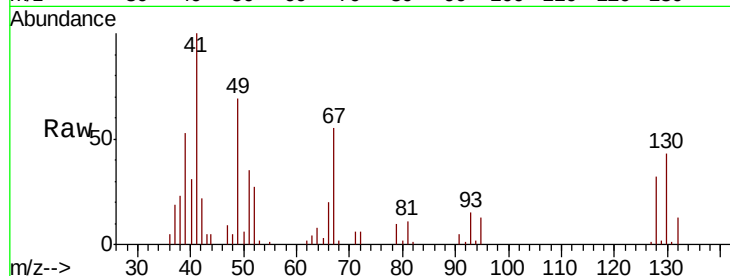
39 66.1 47.8 71.6

67 80.6 54.3 81.5

52 39.6 26.2 39.4#

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#42

1,2-Dichloroethane

Concen: 18.111 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

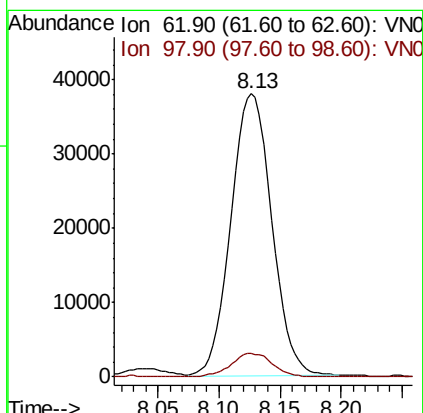
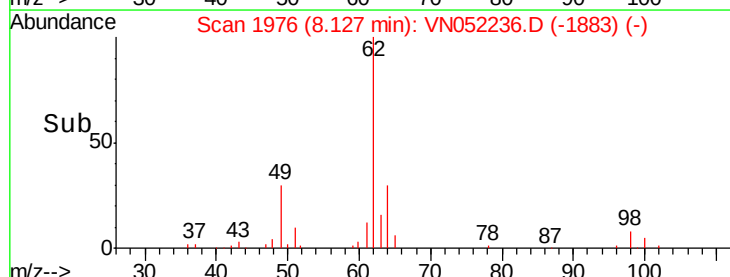
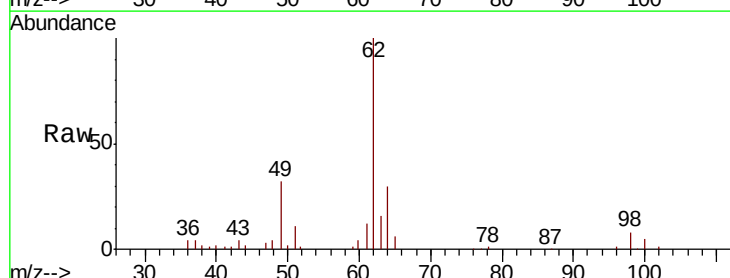
Lab File: VN052236.D

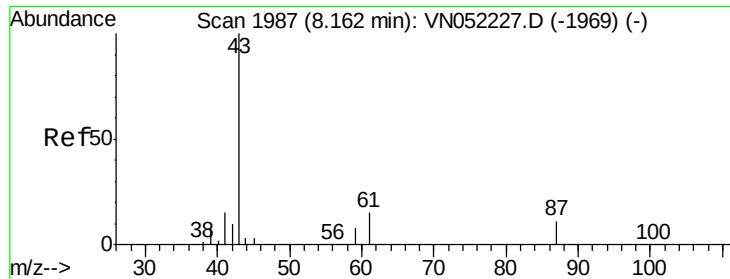
Acq: 9 Nov 2018 19:22

Tgt Ion: 62 Resp: 88276
Ion Ratio Lower Upper

62 100

98 8.4 0.0 16.4





#43

Isopropyl Acetate

Concen: 17.669 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

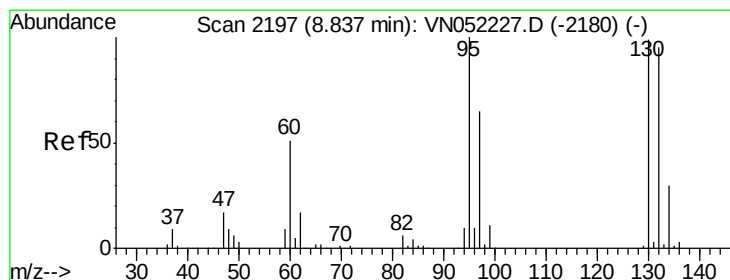
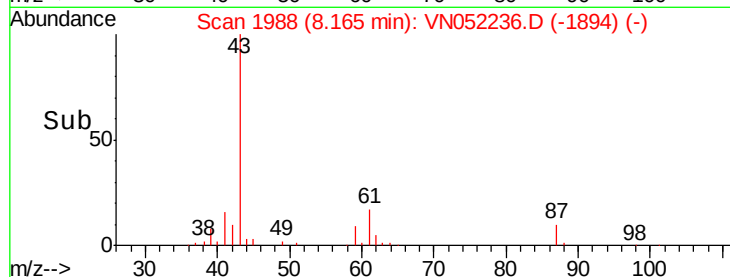
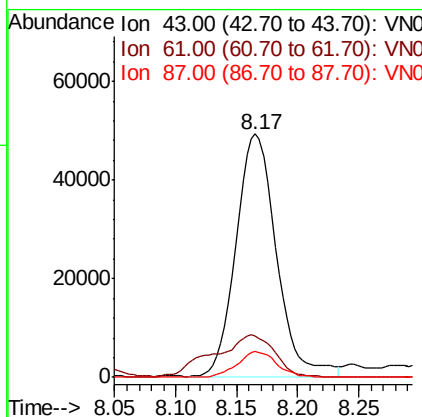
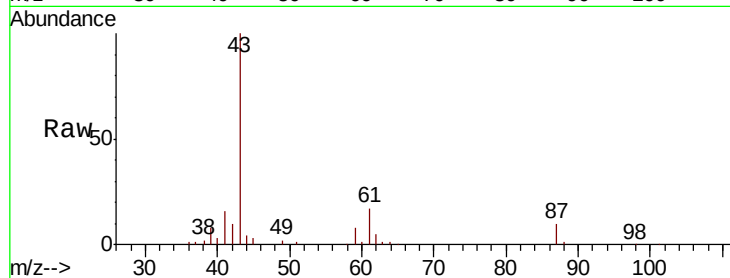
ClientSampleId :

VN1109WBS01

Tot Ion:	43	Resp:	112393
Ion	Ratio	Lower	Upper
43	100		
61	26.5	14.2	21.4#
87	10.4	8.4	12.6

Manual Integrations
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#44

Trichloroethene

Concen: 18.379 ug/l

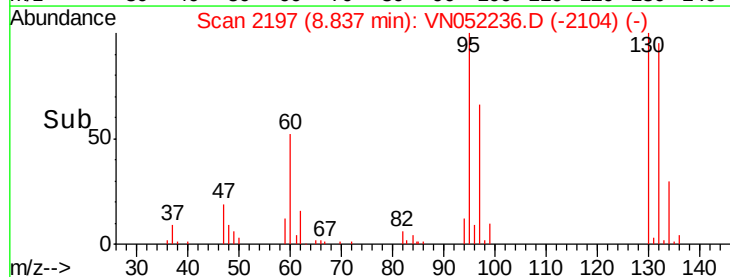
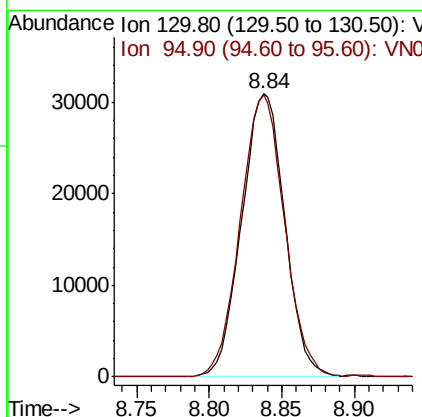
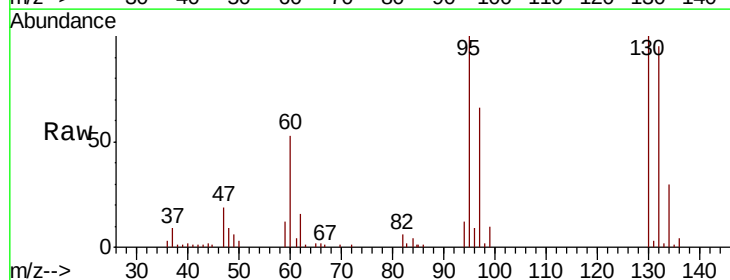
RT: 8.84 min Scan# 2197

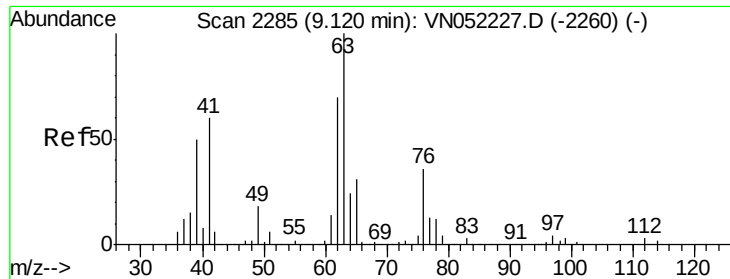
Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion:	130	Resp:	63981
Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	201.6





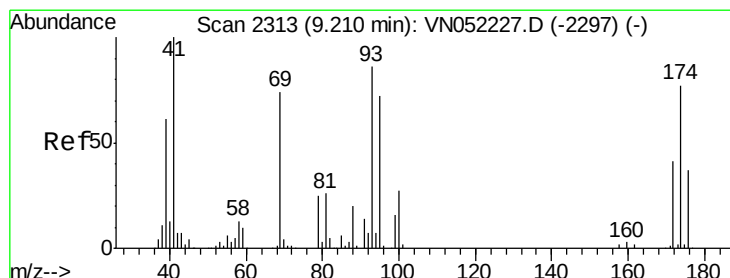
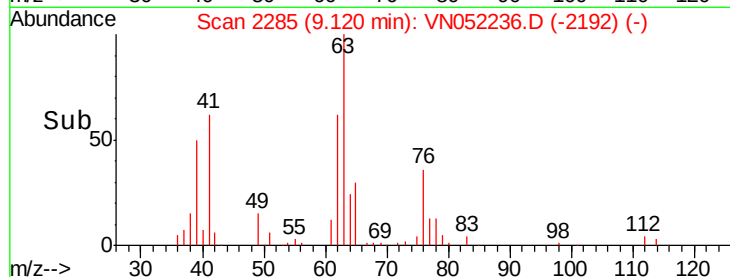
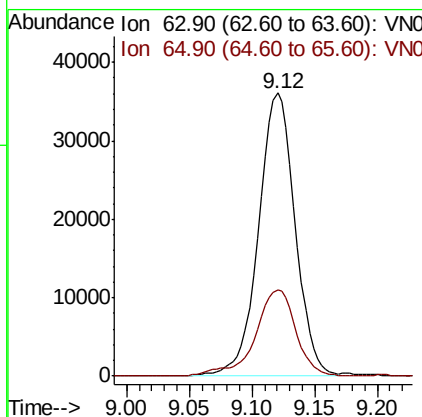
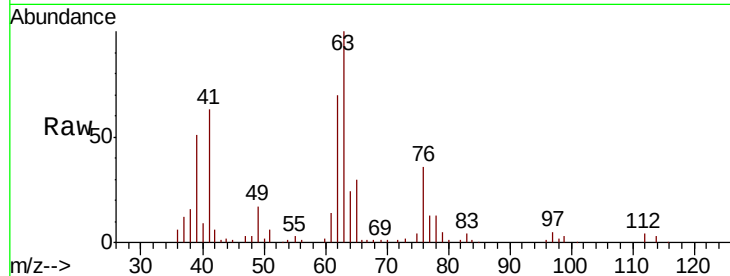
#45
 1,2-Dichloropropane
 Concen: 18.864 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion: 63 Resp: 73209
 Ion Ratio Lower Upper
 63 100
 65 30.4 24.8 37.2

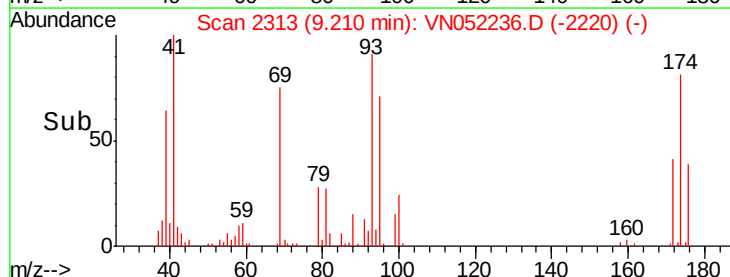
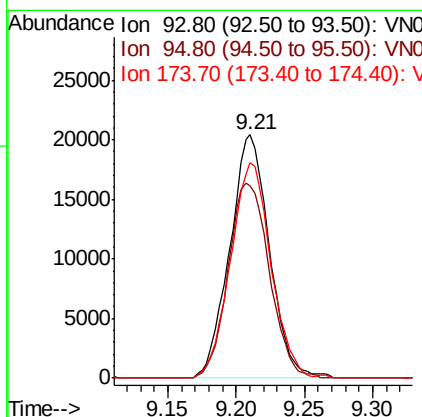
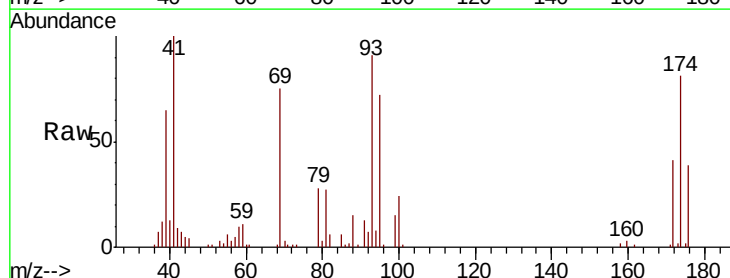
Manual Integrations
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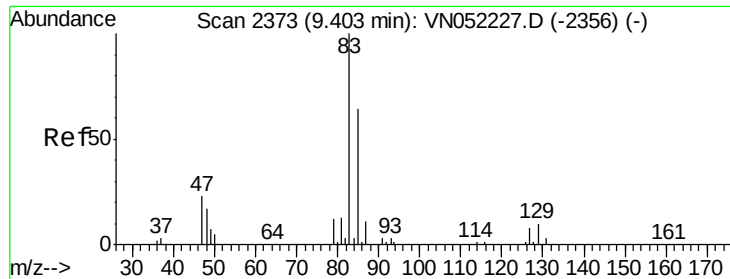
MMDadoda
 11/12/2018 9:18:59 AM



#46
 Dibromomethane
 Concen: 18.447 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion: 93 Resp: 41123
 Ion Ratio Lower Upper
 93 100
 95 83.4 67.0 100.4
 174 90.0 72.1 108.1





#47

Bromodichloromethane

Concen: 18.596 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

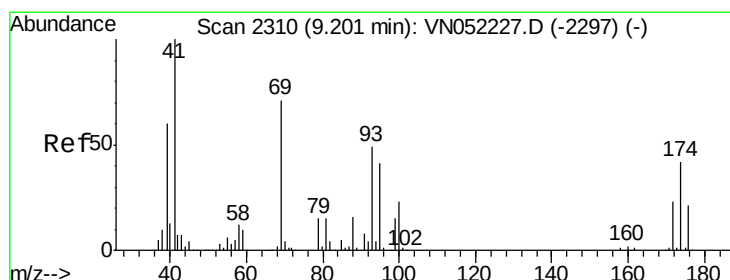
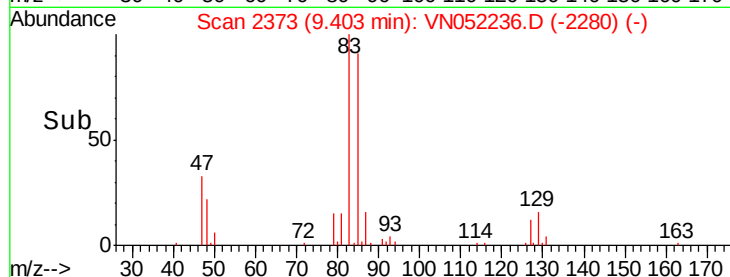
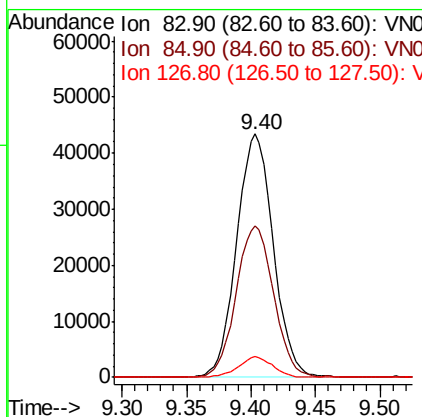
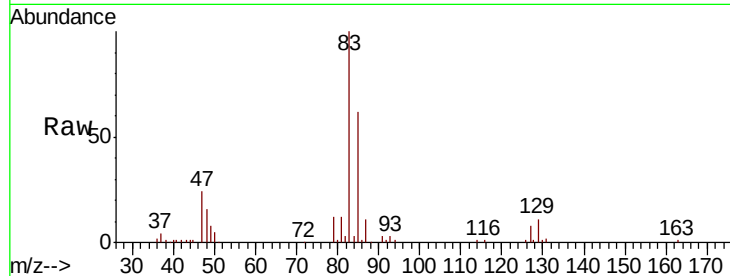
ClientSampleId :

VN1109WBS01

Tot Ion:	83	Resp:	85890
Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.2	76.8
127	8.3	6.2	9.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.048 ug/l

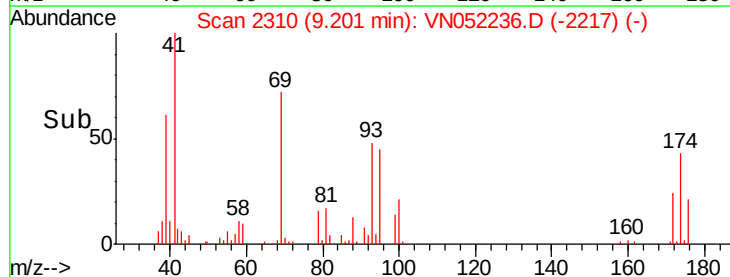
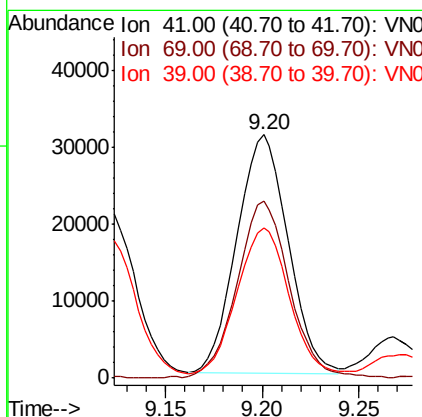
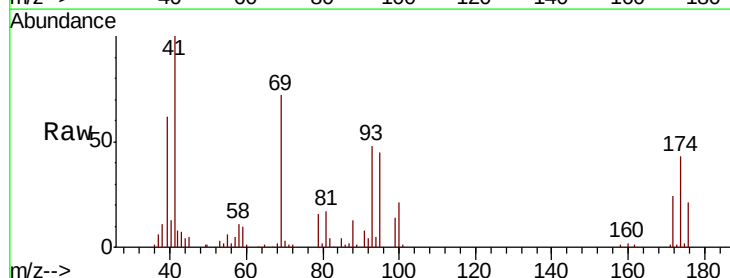
RT: 9.20 min Scan# 2310

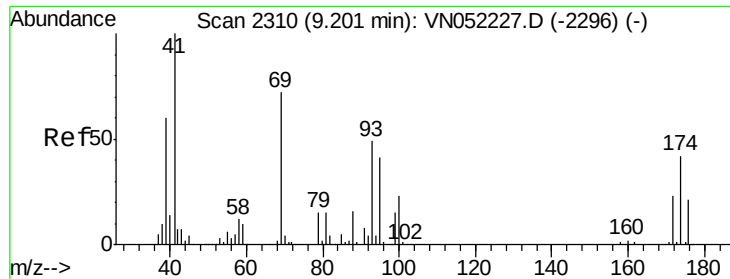
Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion:	41	Resp:	57137
Ion	Ratio	Lower	Upper
41	100		
69	75.9	58.8	88.2
39	63.8	50.7	76.1





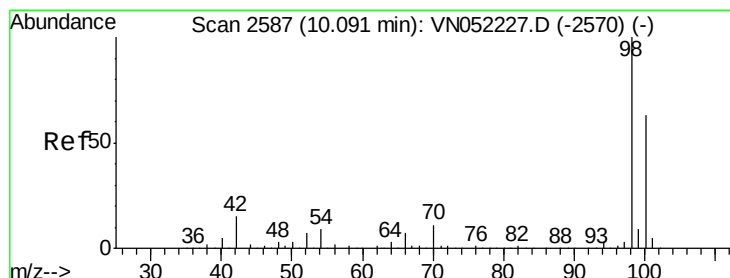
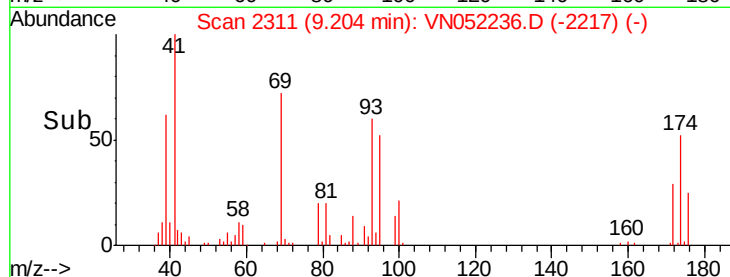
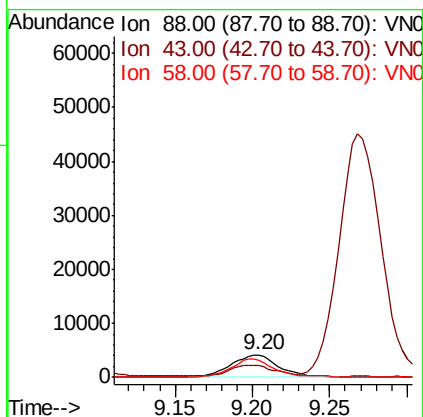
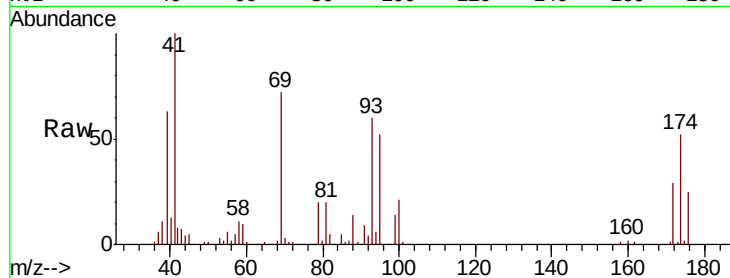
#49
1,4-Dioxane
Concen: 328.658 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.2	32.5	48.7
58	74.6	58.2	87.4

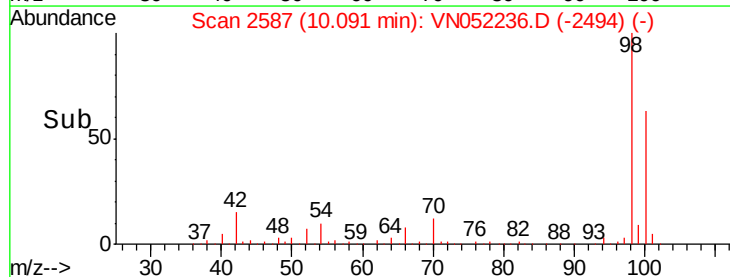
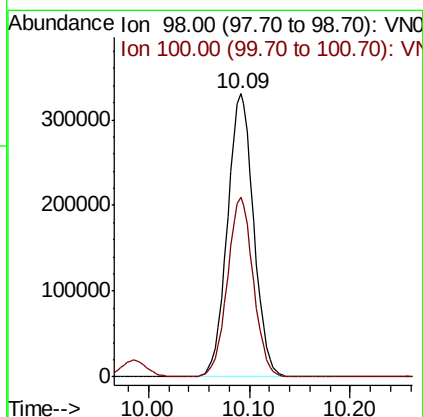
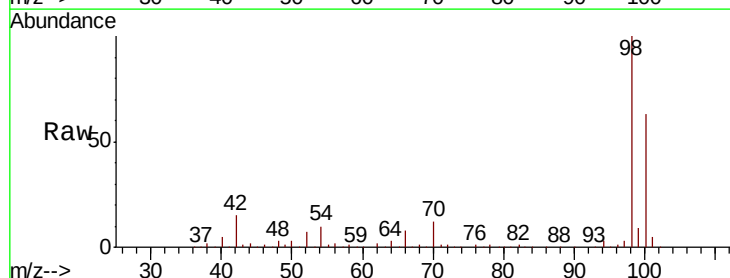
Manual Integrations
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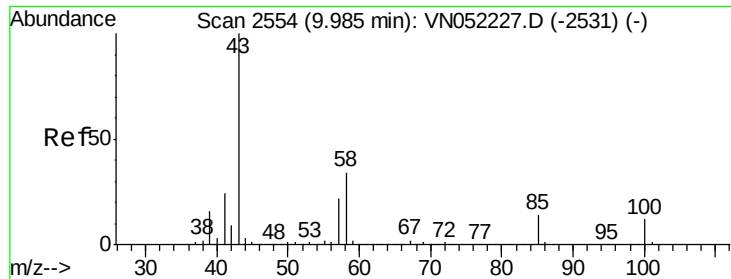
MMDadoda
11/12/2018 9:18:59 AM



#50
Toluene-d8
Concen: 328.658 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.8	50.2	75.2





#51

4-Methyl-2-Pentanone

Concen: 86.911 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 43 Resp: 305308

Ion Ratio Lower Upper

43 100

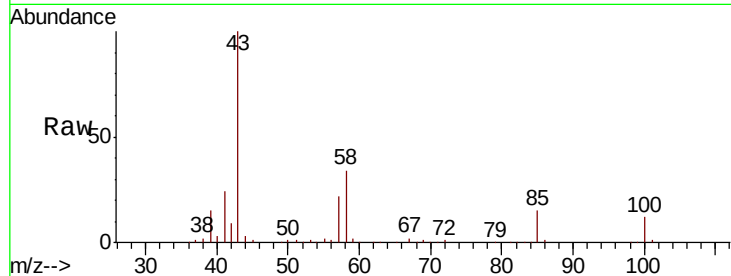
58 34.2 27.4 41.0

Manual Integrations

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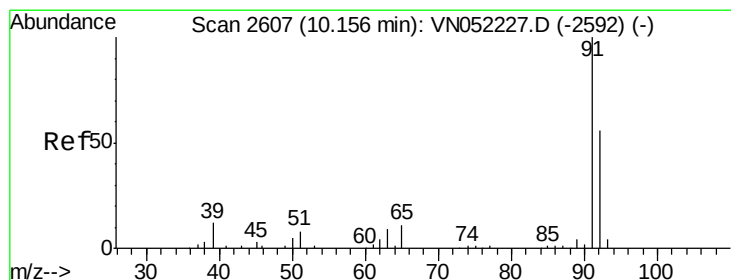
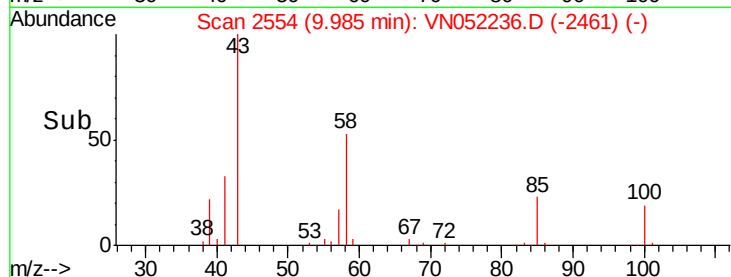
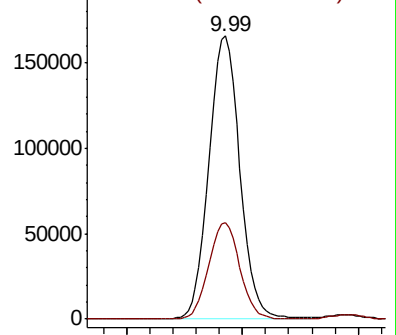
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 18.919 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052236.D

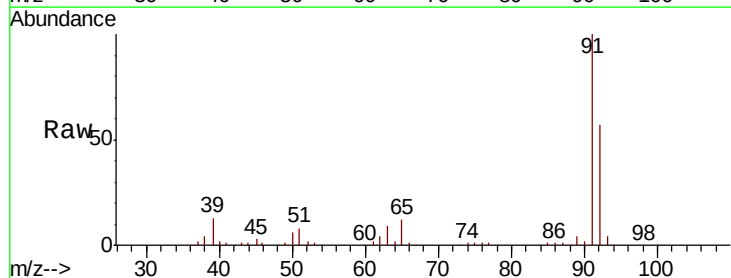
Acq: 9 Nov 2018 19:22

Tgt Ion: 92 Resp: 158538

Ion Ratio Lower Upper

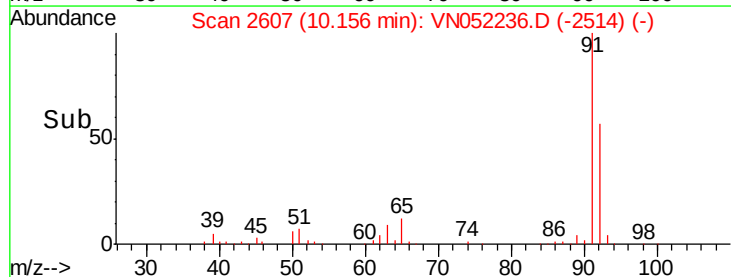
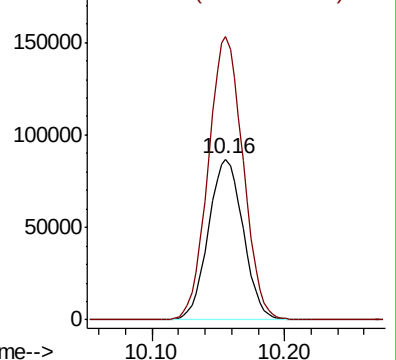
92 100

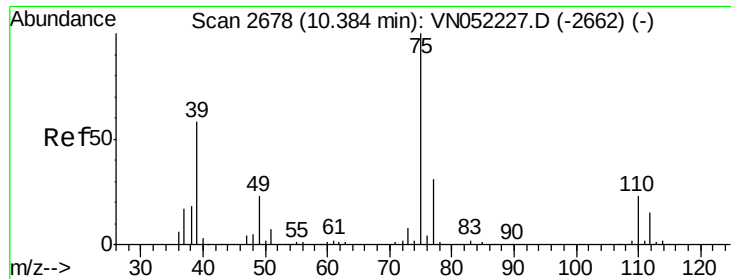
91 176.2 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





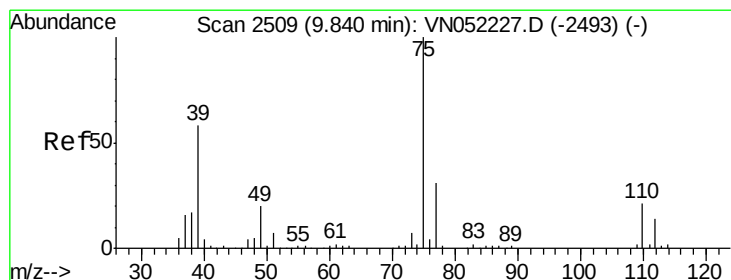
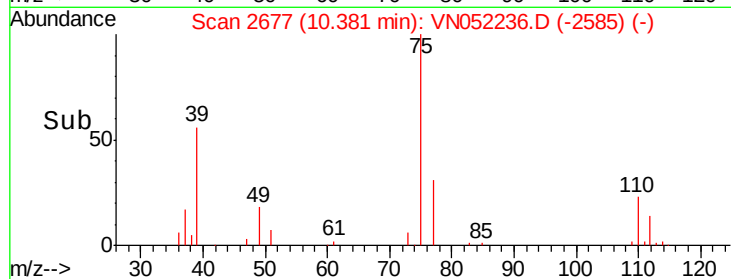
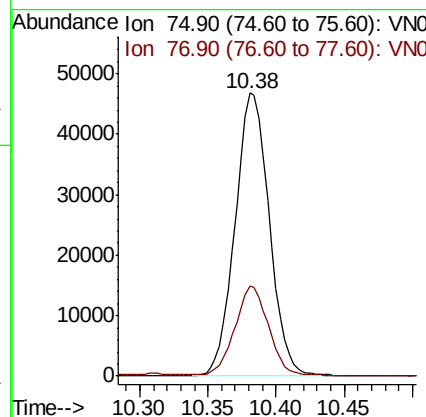
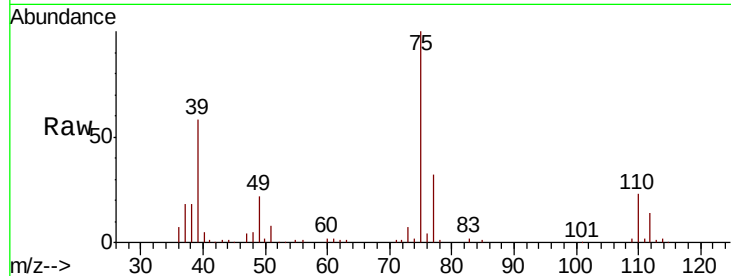
#53
t-1,3-Dichloropropene
Concen: 17.956 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion: 75 Resp: 81842
Ion Ratio Lower Upper
75 100
77 31.5 24.6 36.8

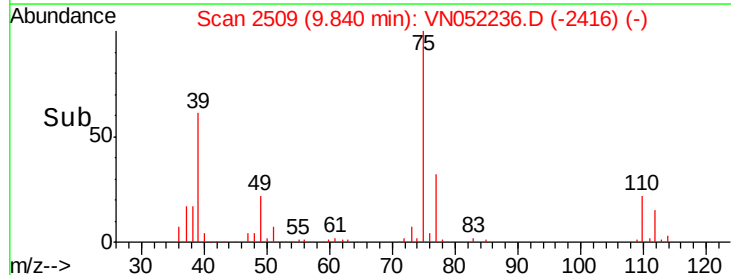
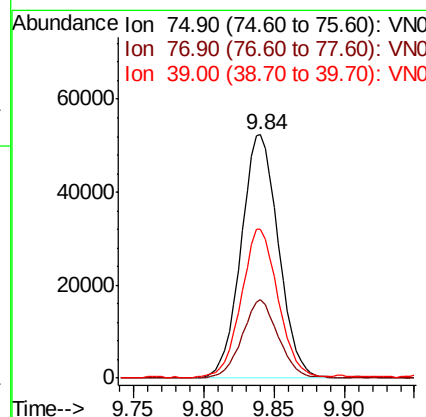
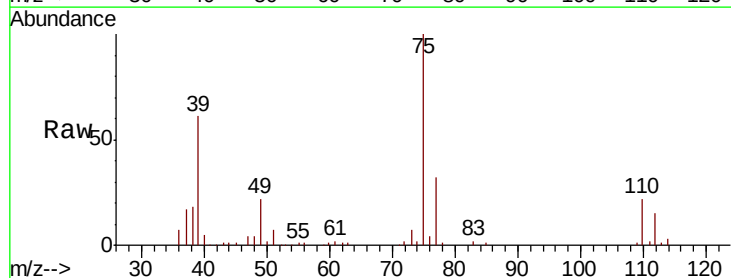
Manual Integrations
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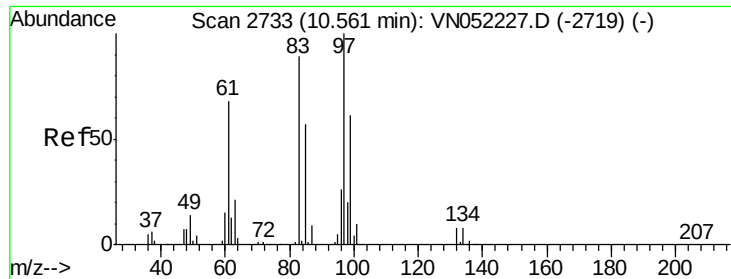
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 18.054 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion: 75 Resp: 97135
Ion Ratio Lower Upper
75 100
77 32.3 25.2 37.8
39 61.0 46.6 70.0





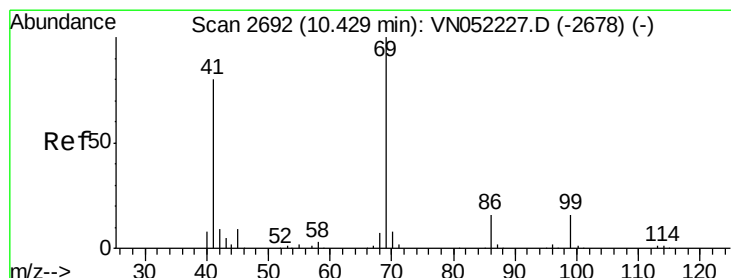
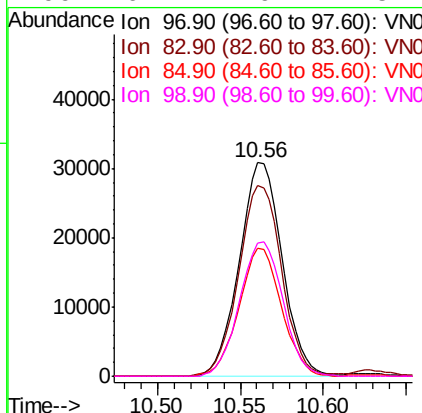
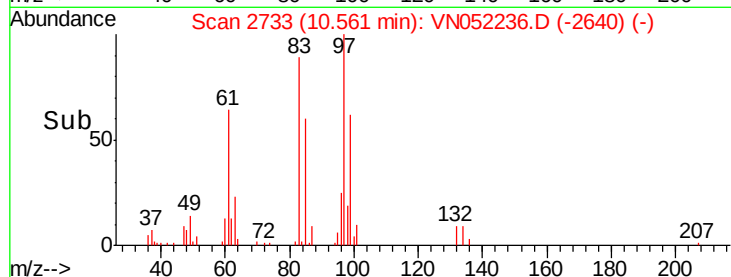
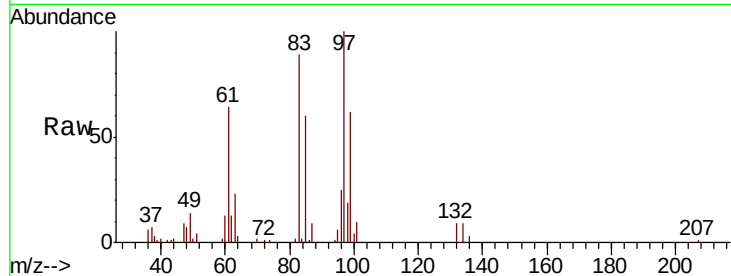
#55
 1,1,2-Trichloroethane
 Concen: 18.314 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.4	71.2	106.8
85	60.2	45.6	68.4
99	62.1	49.1	73.7

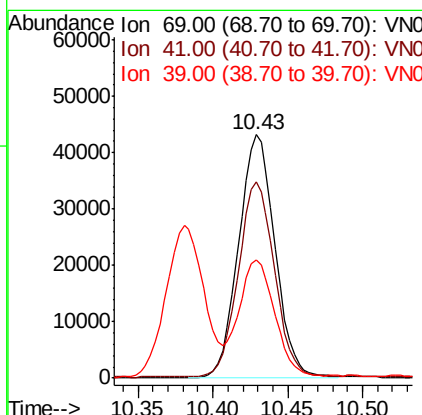
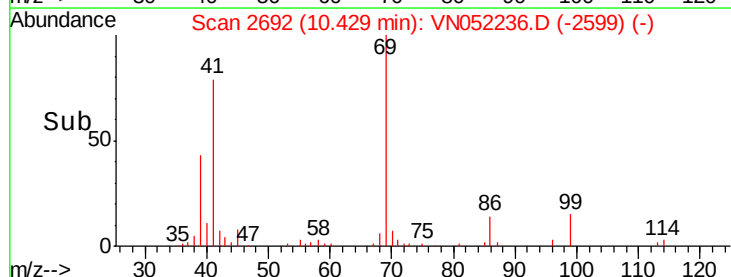
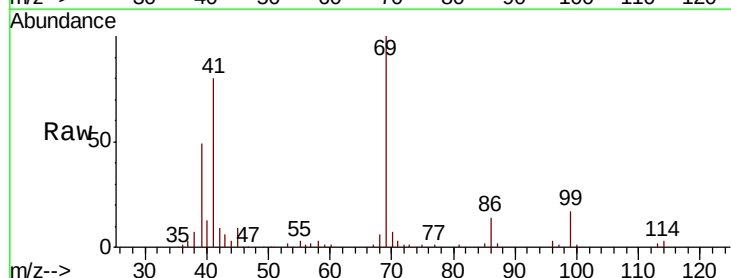
Manual Integrations
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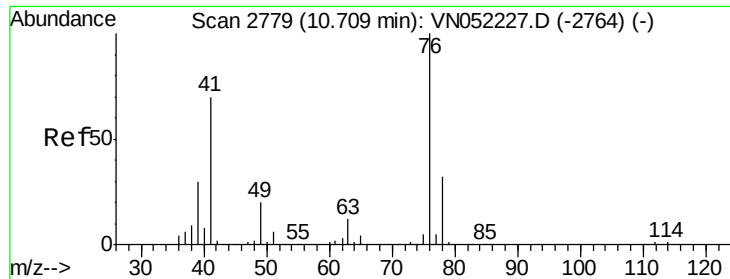
MMDadoda
 11/12/2018 9:18:59 AM



#56
 Ethyl methacrylate
 Concen: 17.885 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
69	100		
41	79.2	64.0	96.0
39	47.1	37.8	56.8





#57

1,3-Dichloropropane

Concen: 18.183 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 76 Resp: 98588

Ion Ratio Lower Upper

76 100

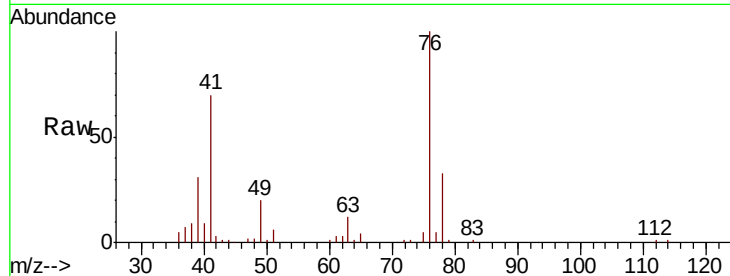
78 33.3 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

11/12/2018 9:18:59 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

60000

50000

40000

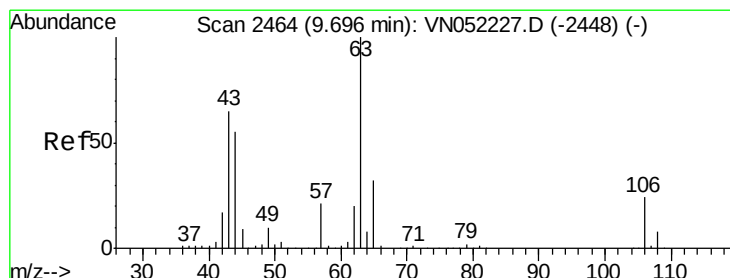
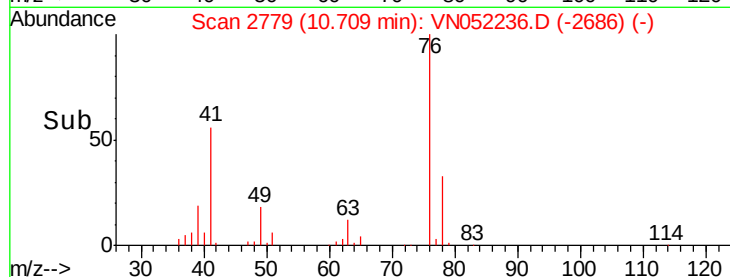
30000

20000

10000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 93.091 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052236.D

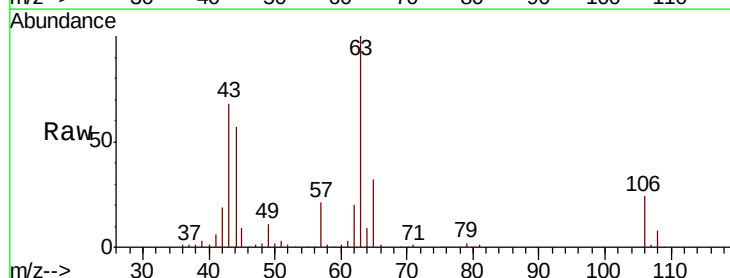
Acq: 9 Nov 2018 19:22

Tgt Ion: 63 Resp: 211008

Ion Ratio Lower Upper

63 100

106 24.0 19.5 29.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

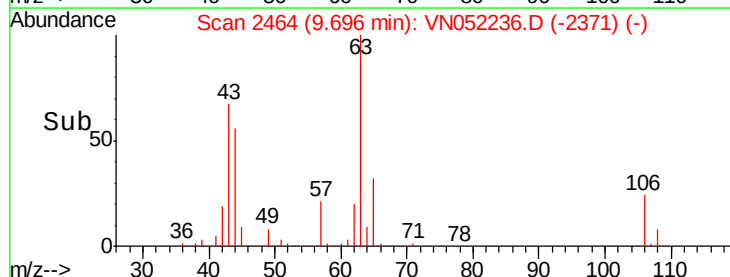
9.70

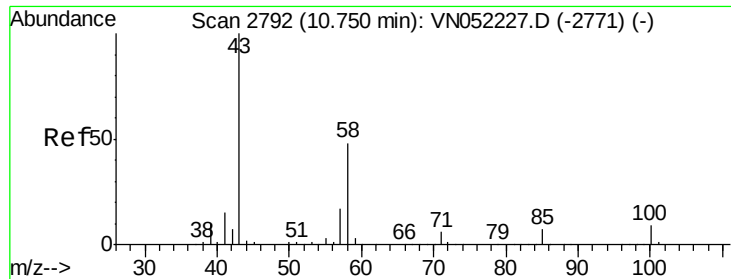
100000

50000

0

Time-->





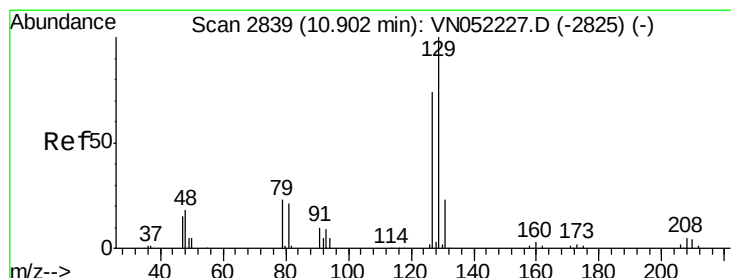
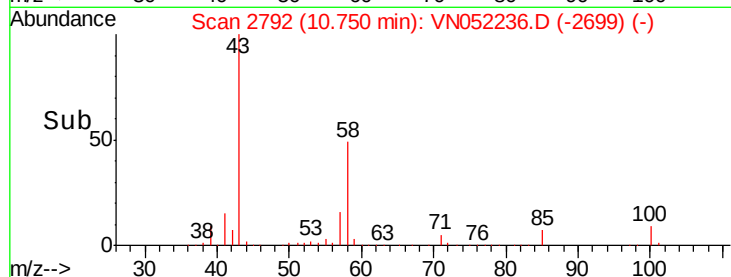
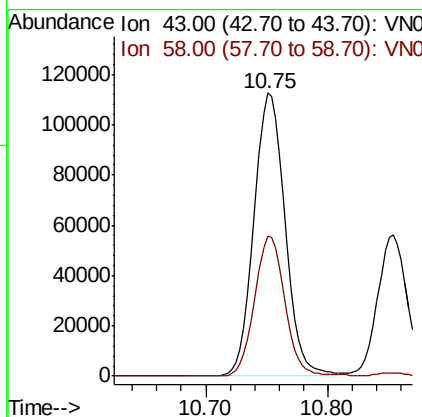
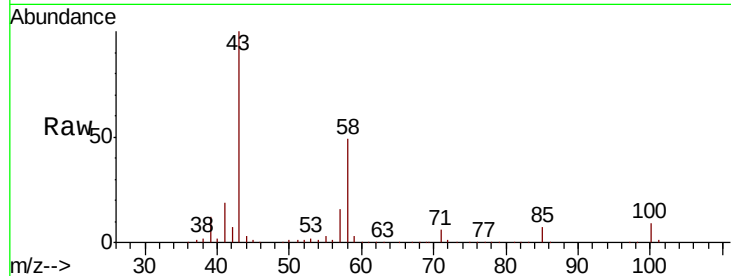
#59
2-Hexanone
Concen: 80.091 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion: 43 Resp: 197509
Ion Ratio Lower Upper
43 100
58 48.4 24.1 72.3

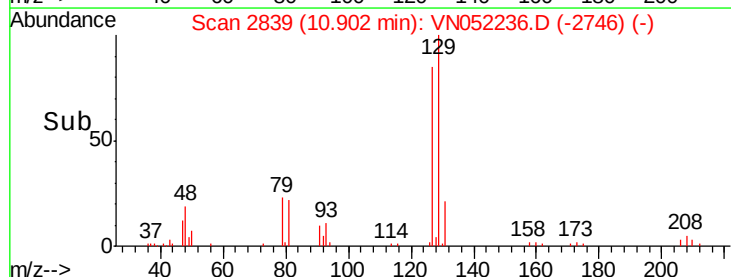
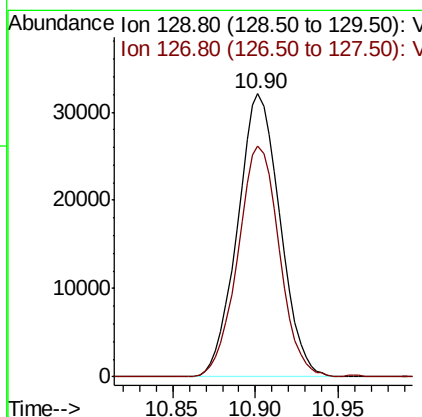
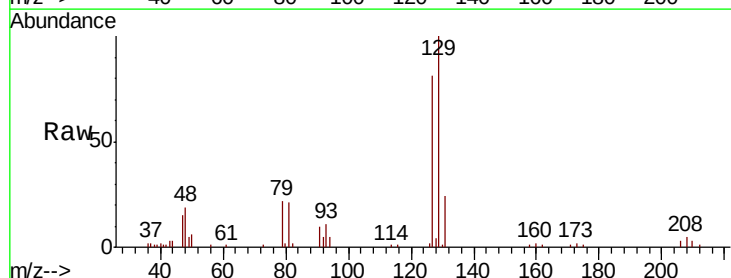
Manual Integrations
APPROVED

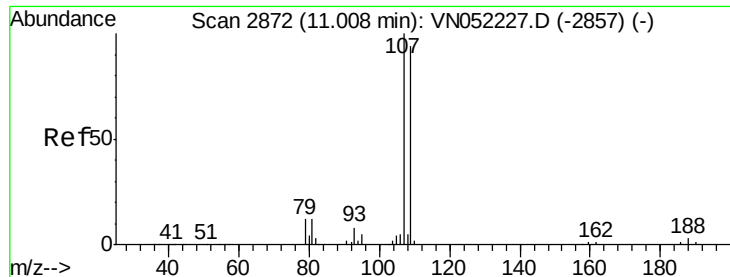
MMDadoda
11/12/2018 9:18:59 AM



#60
Dibromochloromethane
Concen: 18.639 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion: 129 Resp: 57264
Ion Ratio Lower Upper
129 100
127 79.8 38.0 114.1





#61

1,2-Dibromoethane

Concen: 17.886 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion:107 Resp: 53242

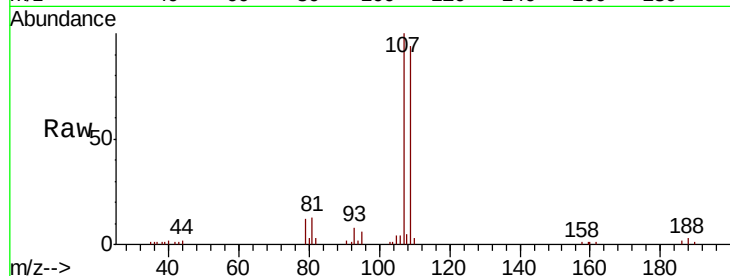
Ion Ratio Lower Upper

107 100

109 96.3 75.8 113.6

Manual Integrations
APPROVED

MMDadoda
11/12/2018 9:18:59 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

30000

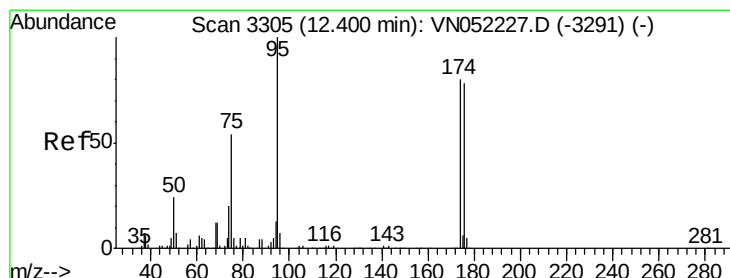
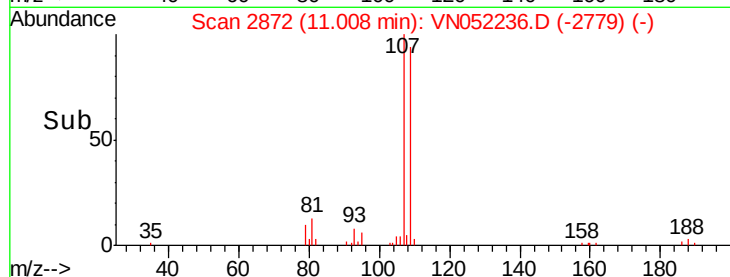
20000

10000

0

Time-->

10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 17.886 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

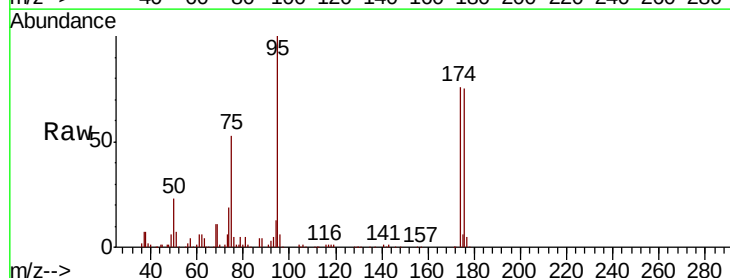
Tgt Ion: 95 Resp: 188064

Ion Ratio Lower Upper

95 100

174 77.1 0.0 159.4

176 75.1 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

150000

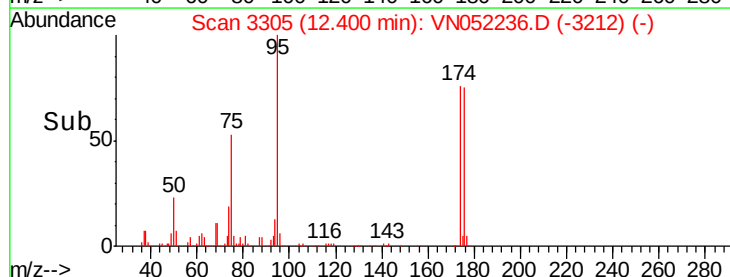
100000

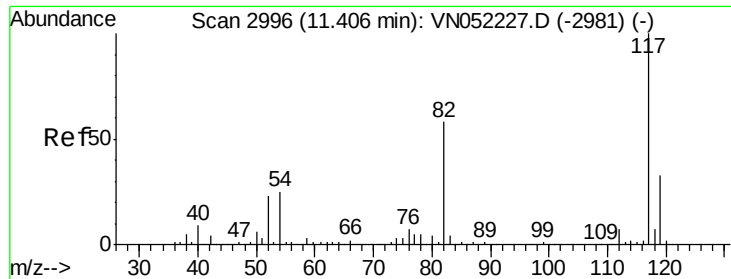
50000

0

Time-->

12.35 12.40 12.45





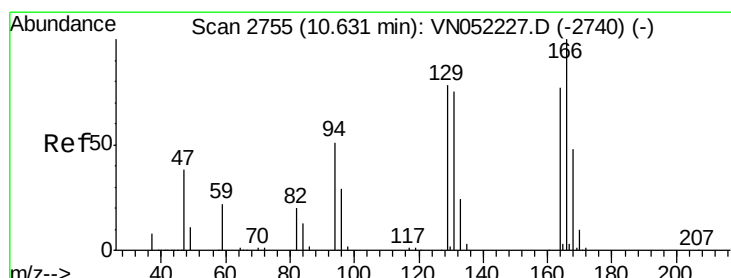
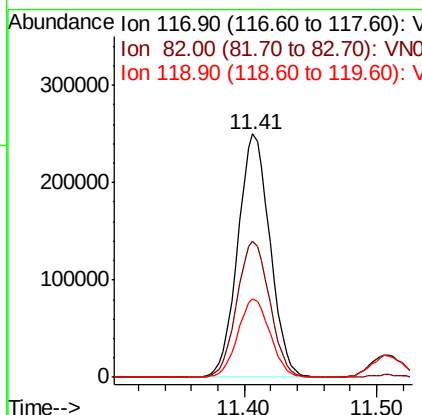
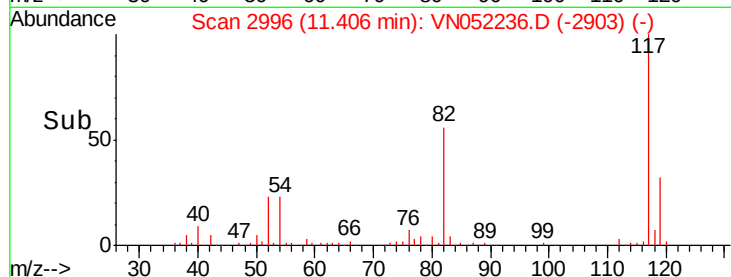
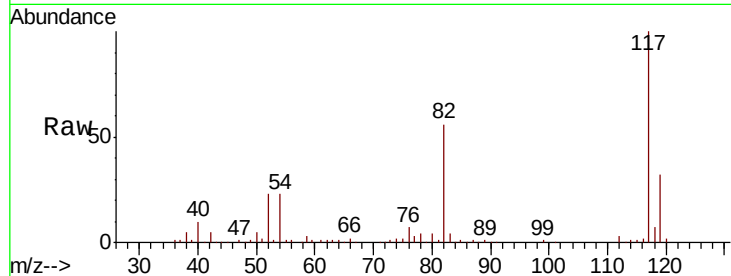
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion:	117	Resp:	420636
Ion Ratio	Lower	Upper	
117	100		
82	56.1	46.2	69.2
119	32.3	26.2	39.4

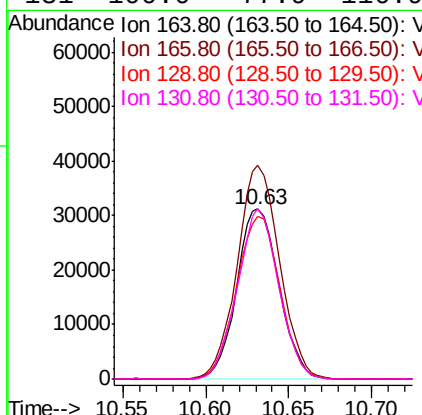
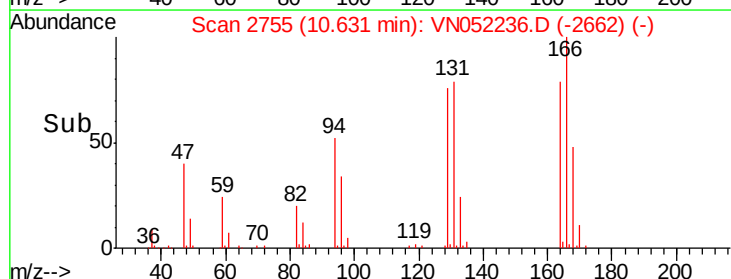
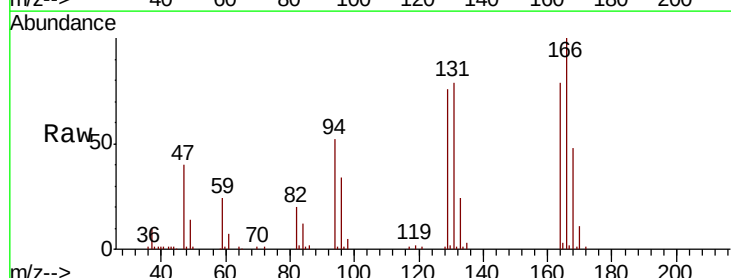
Manual Integrations
APPROVED

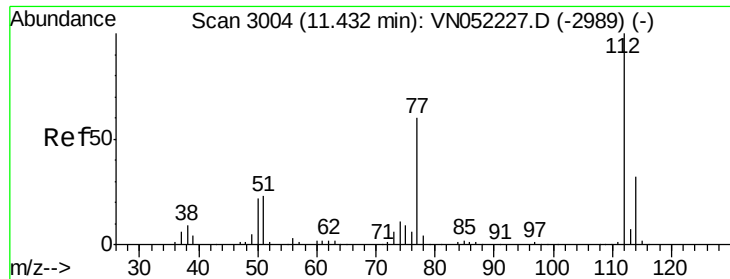
MMDadoda
11/12/2018 9:18:59 AM



#64
Tetrachloroethene
Concen: 18.732 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion:	164	Resp:	55167
Ion Ratio	Lower	Upper	
164	100		
166	125.8	103.6	155.4
129	96.1	81.0	121.6
131	100.0	77.9	116.9





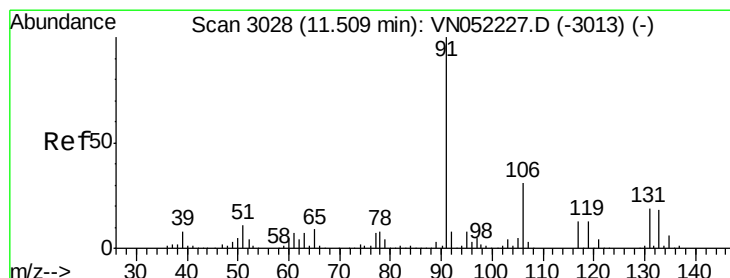
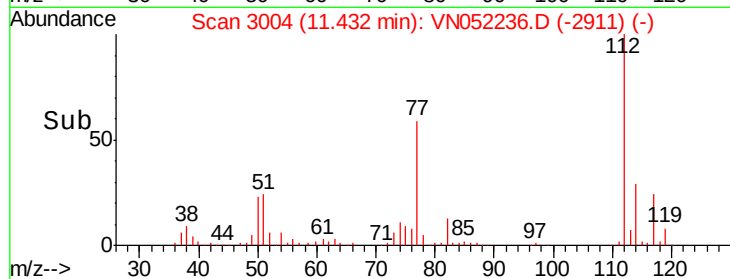
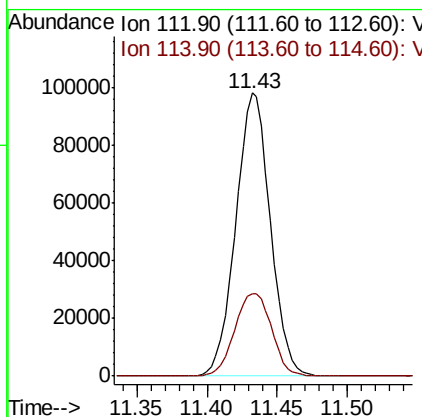
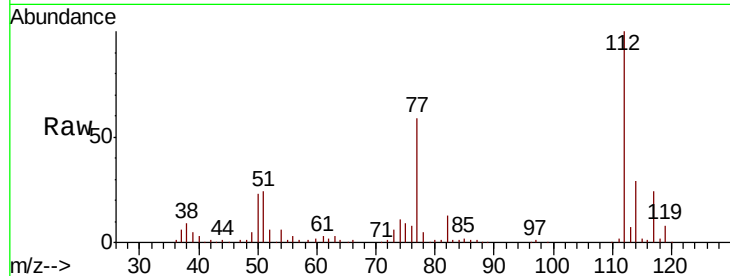
#65
Chlorobenzene
Concen: 18.921 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion:112 Resp: 168641
Ion Ratio Lower Upper
112 100
114 29.3 25.7 38.5

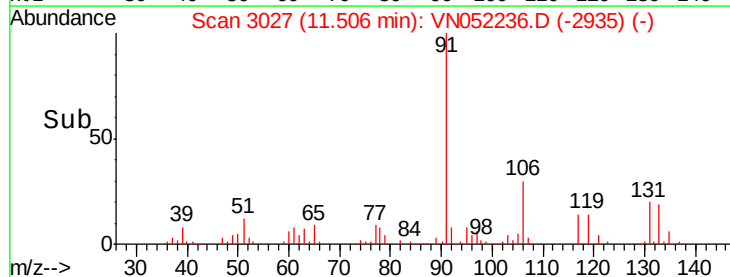
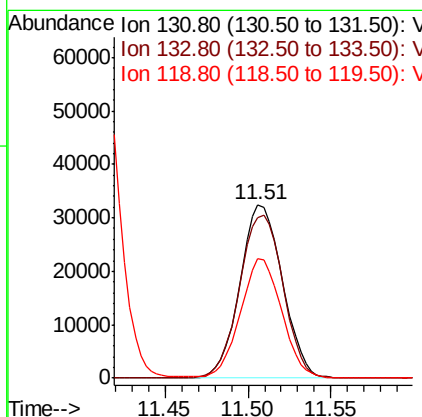
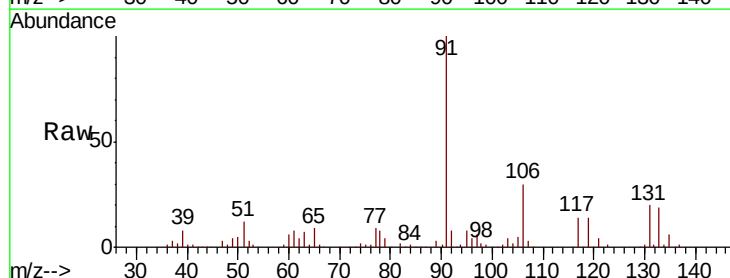
Manual Integrations
APPROVED

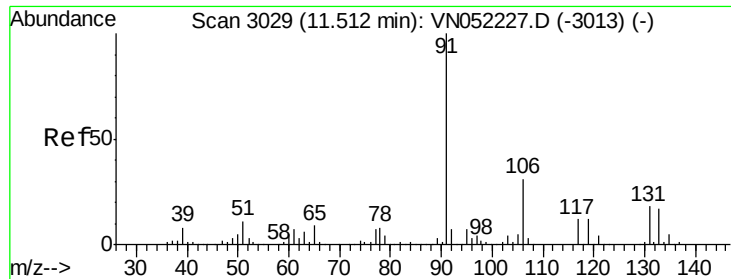
MMDadoda
11/12/2018 9:18:59 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.177 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion:131 Resp: 57897
Ion Ratio Lower Upper
131 100
133 96.3 48.3 144.9
119 67.2 34.6 103.9





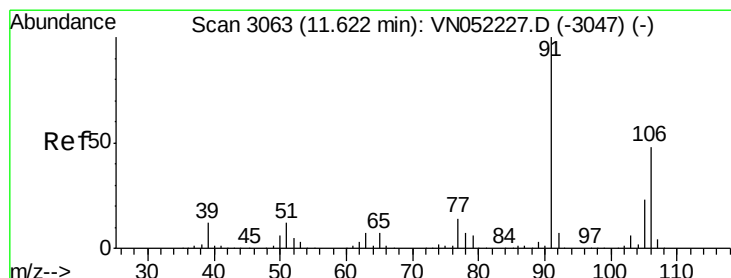
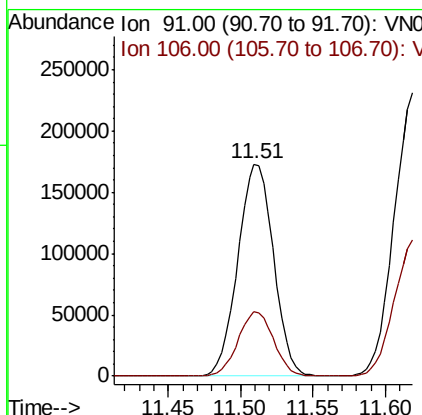
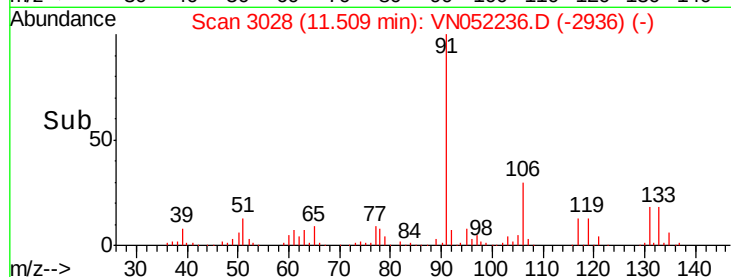
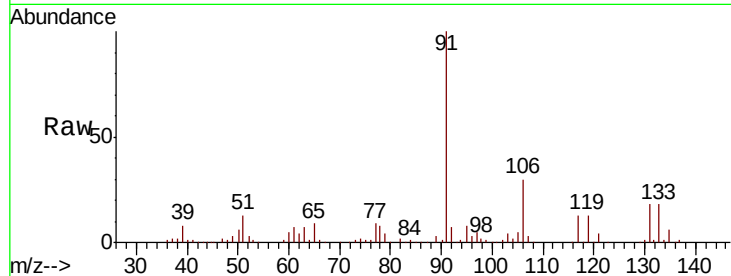
#67
Ethyl Benzene
Concen: 18.865 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampled :
VN1109WBS01

Tot Ion: 91 Resp: 295751
Ion Ratio Lower Upper
91 100
106 30.3 24.7 37.1

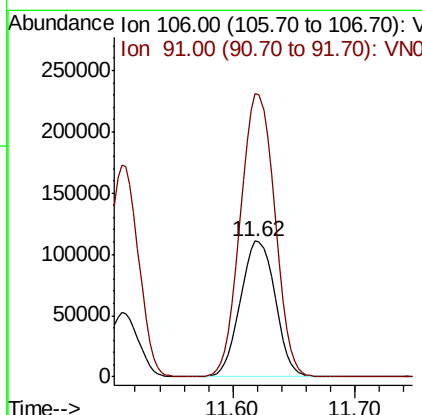
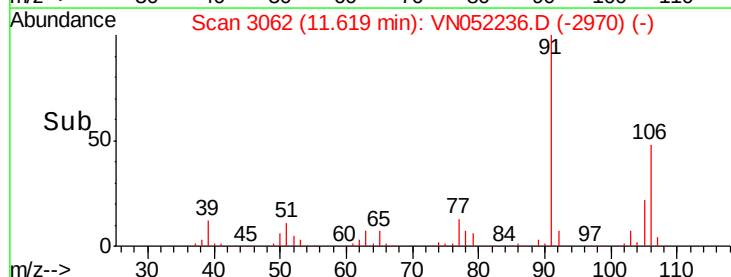
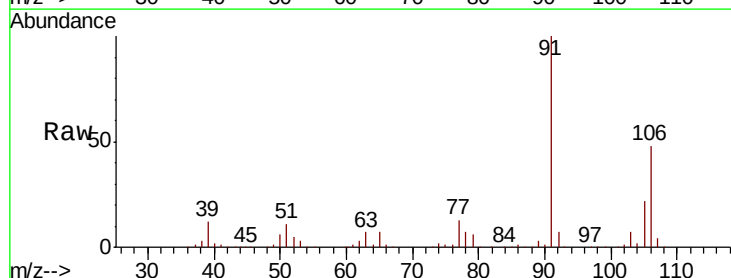
Manual Integrations
APPROVED

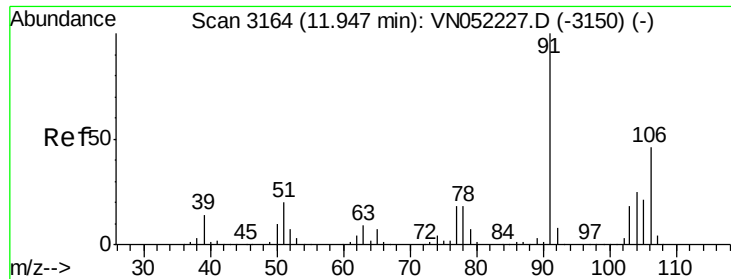
MMDadoda
11/12/2018 9:18:59 AM



#68
m/p-Xylenes
Concen: 37.488 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion: 106 Resp: 218873
Ion Ratio Lower Upper
106 100
91 206.0 165.7 248.5





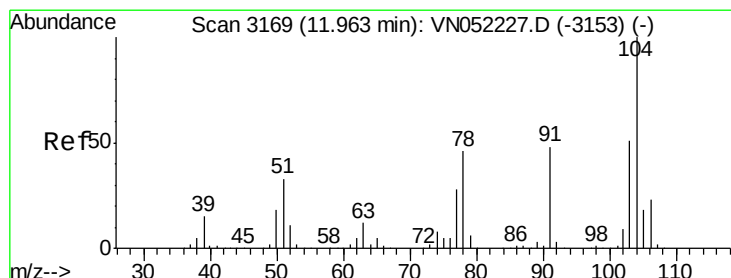
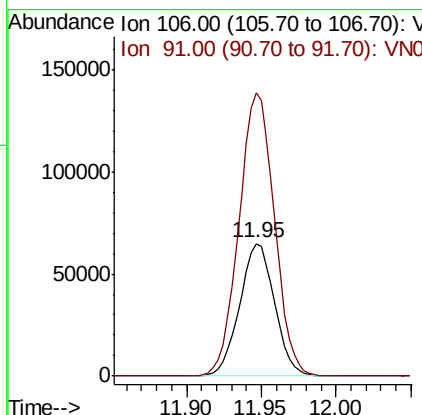
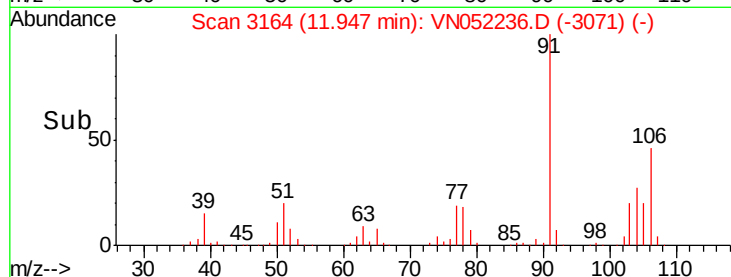
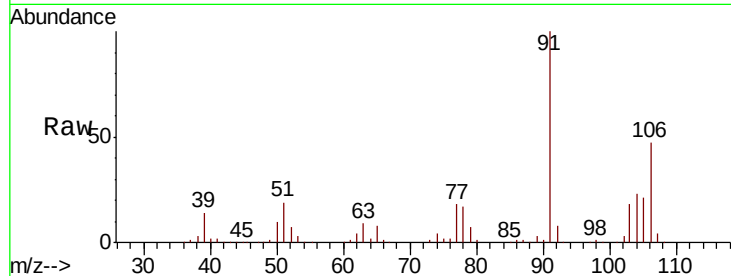
#69
o-Xylene
Concen: 18.878 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion:106 Resp: 105302
Ion Ratio Lower Upper
106 100
91 217.3 108.5 325.5

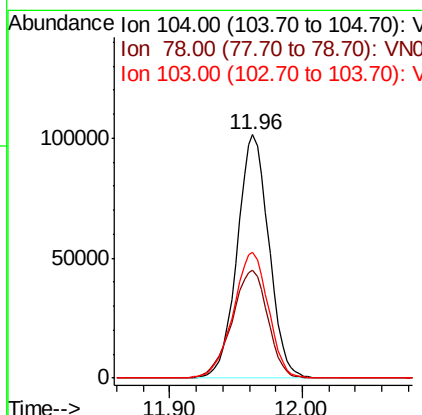
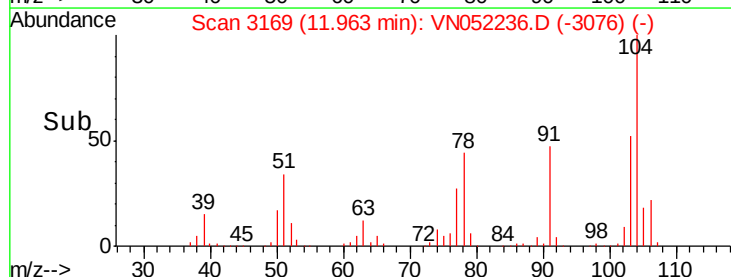
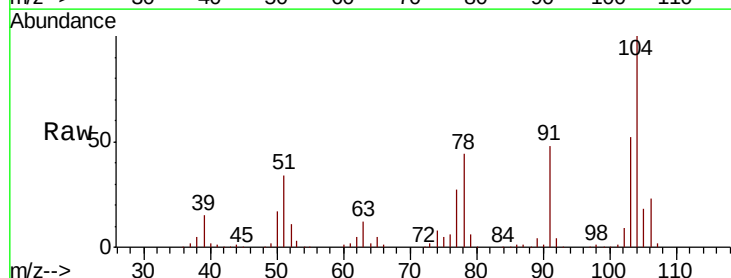
Manual Integrations
APPROVED

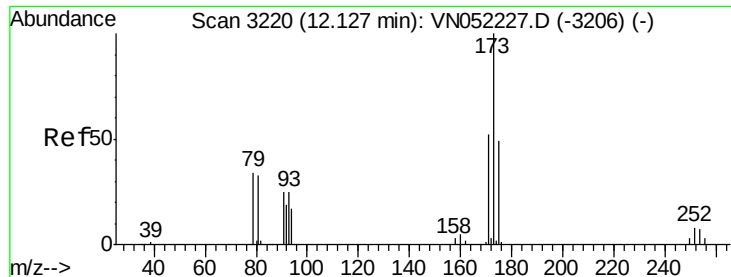
MMDadoda
11/12/2018 9:18:59 AM



#70
Styrene
Concen: 18.674 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion:104 Resp: 168282
Ion Ratio Lower Upper
104 100
78 50.4 41.8 62.6
103 57.1 44.9 67.3





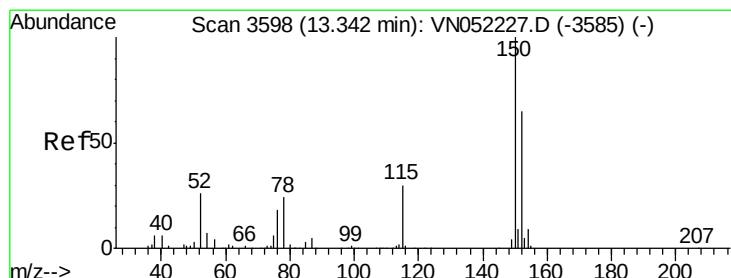
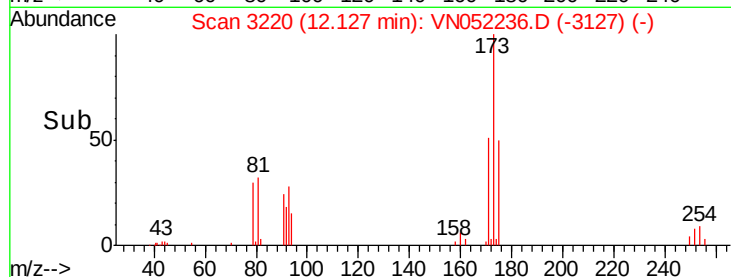
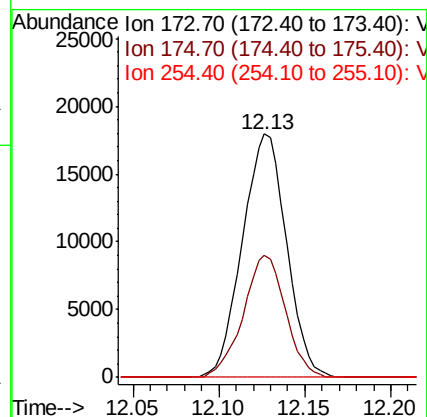
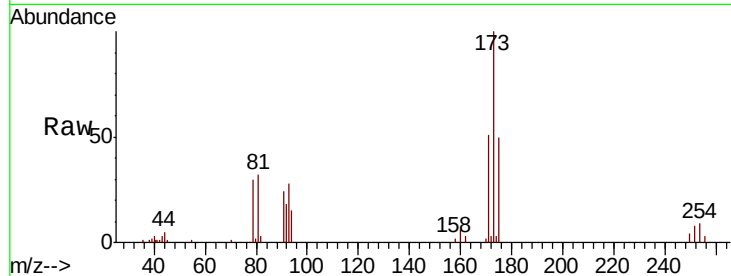
#71
Bromoform
Concen: 17.703 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.5	73.5
254	0.0	0.0	0.0

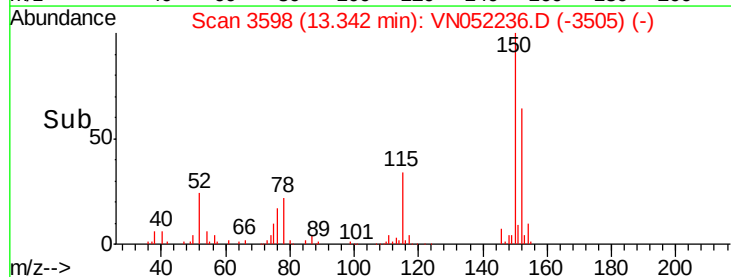
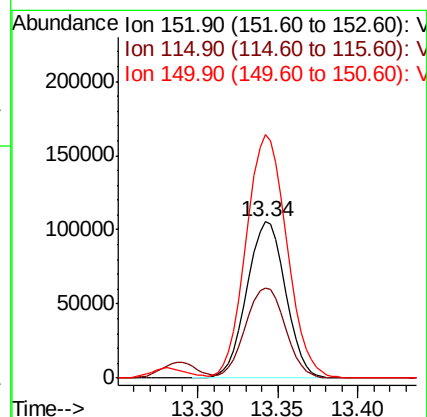
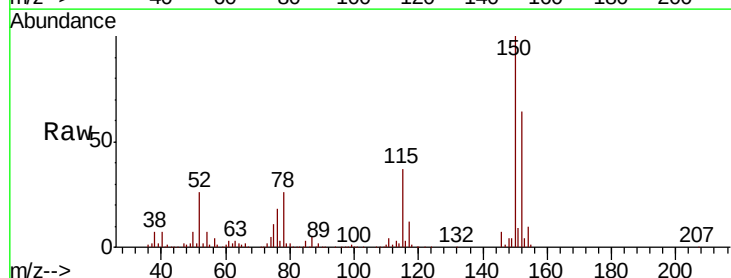
Manual Integrations
APPROVED

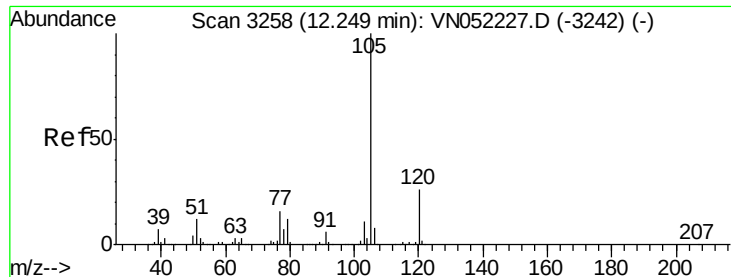
MMDadoda
11/12/2018 9:18:59 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.6	29.8	89.5
150	163.9	0.0	350.2





#73

Isopropylbenzene

Concen: 19.669 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 105 Resp: 280313

Ion Ratio Lower Upper

105 100

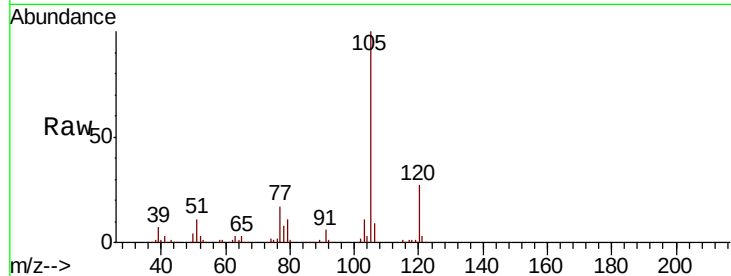
120 26.5 13.1 39.1

Manual Integrations

APPROVED

MMDadoda

11/12/2018 9:18:59 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

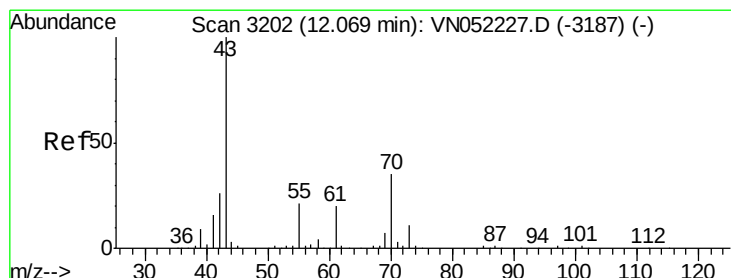
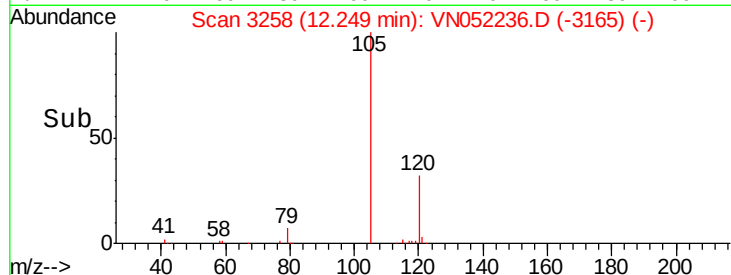
100000

50000

0

12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 18.328 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion: 43 Resp: 94827

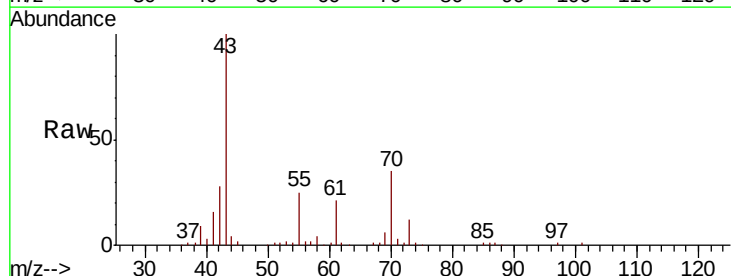
Ion Ratio Lower Upper

43 100

70 35.0 28.2 42.2

55 23.0 17.4 26.2

61 20.2 16.3 24.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

80000

60000

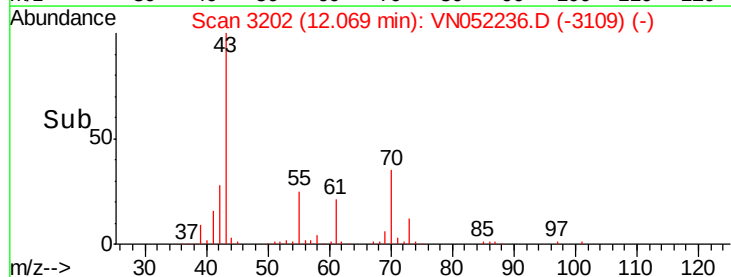
40000

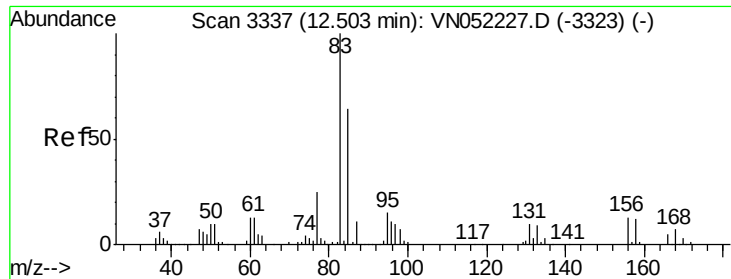
20000

0

12.00 12.05 12.10 12.15

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 18.911 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

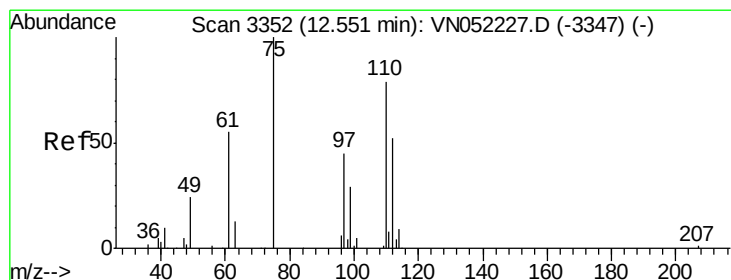
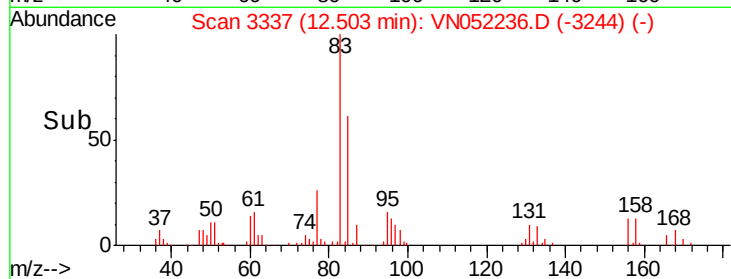
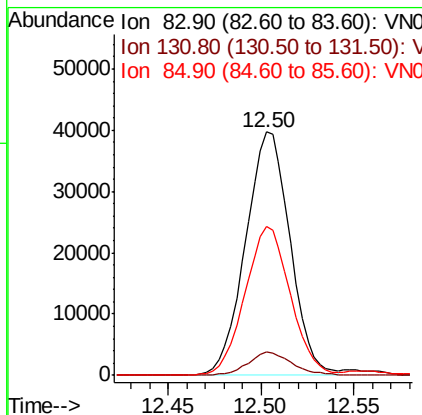
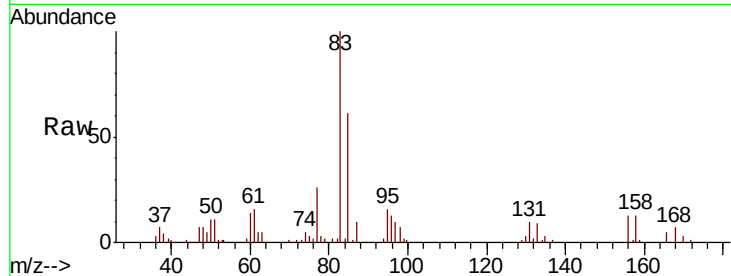
ClientSampleId :

VN1109WBS01

Tot Ion	83	Resp	66073
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	5.1	15.2
85	62.3	32.4	97.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.391 ug/l m

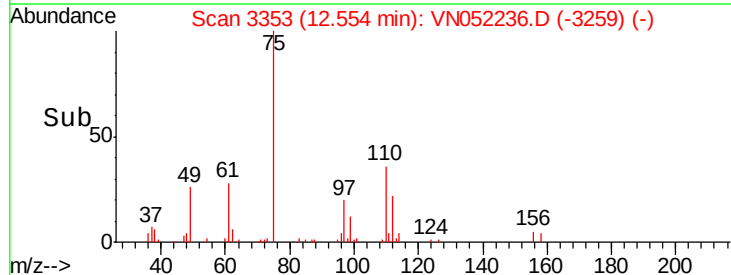
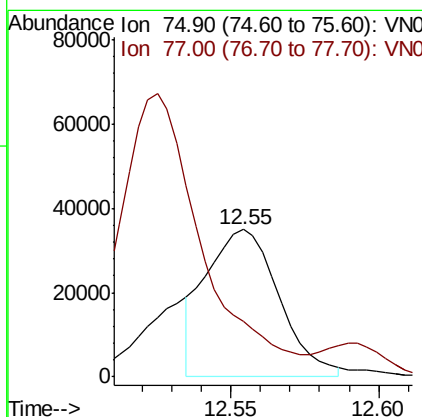
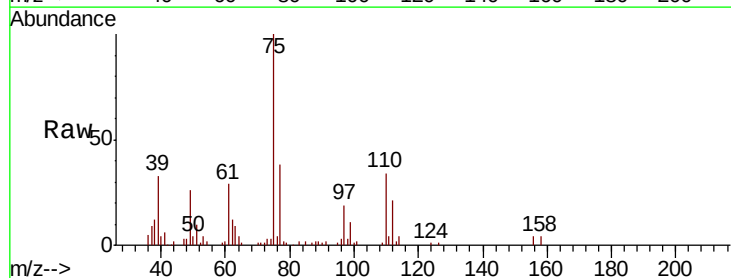
RT: 12.55 min Scan# 3353

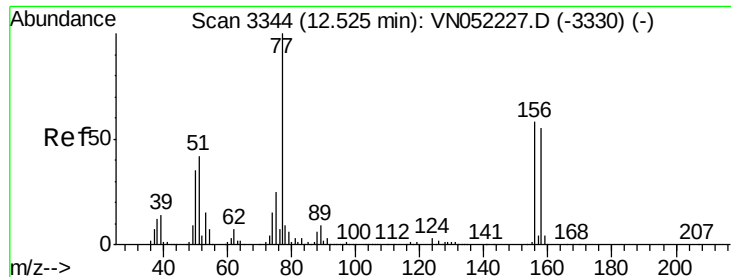
Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion	75	Resp	59811
Ion Ratio	100	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.055 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

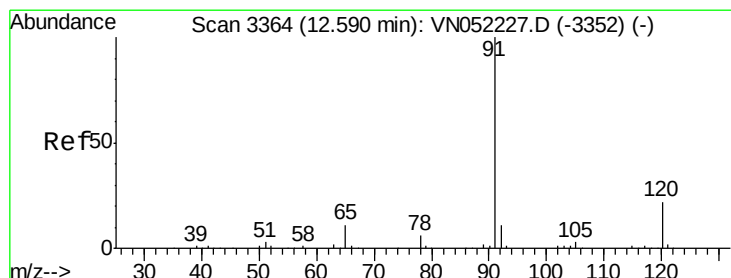
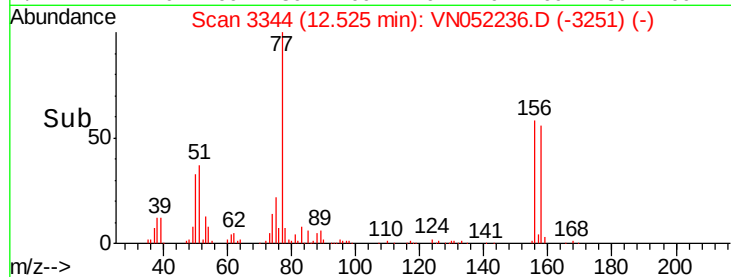
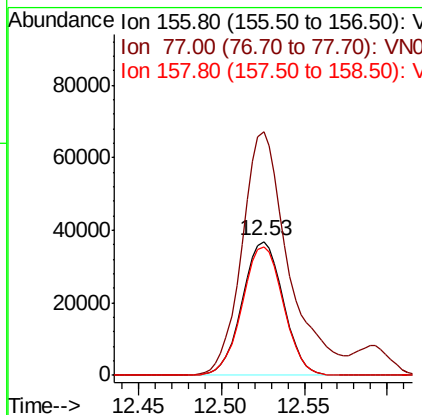
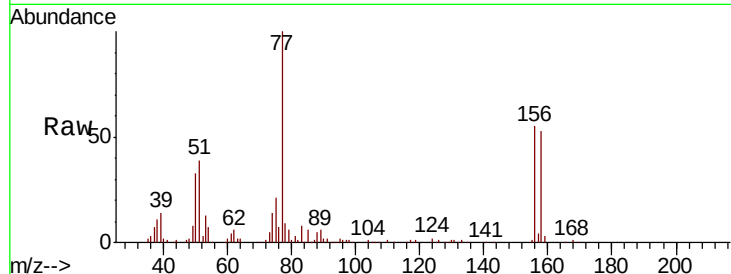
ClientSampleId :

VN1109WBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	207.8	101.1	303.3	
158	96.4	47.8	143.3	

Manual Integrations
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#78

n-propylbenzene

Concen: 19.327 ug/l

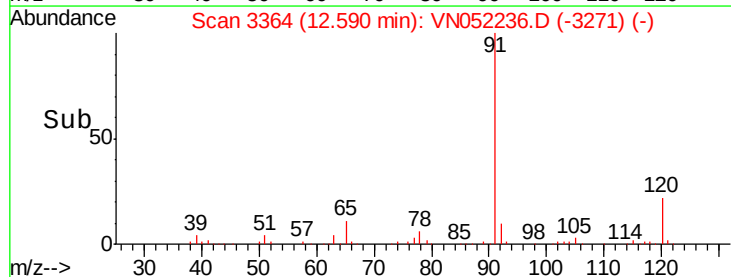
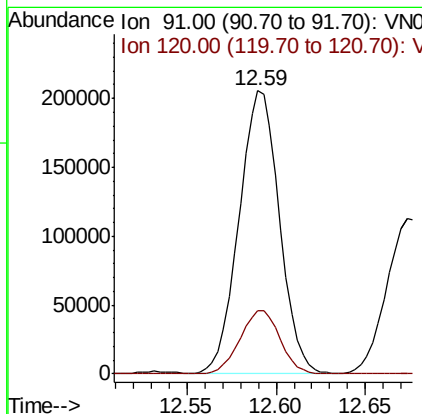
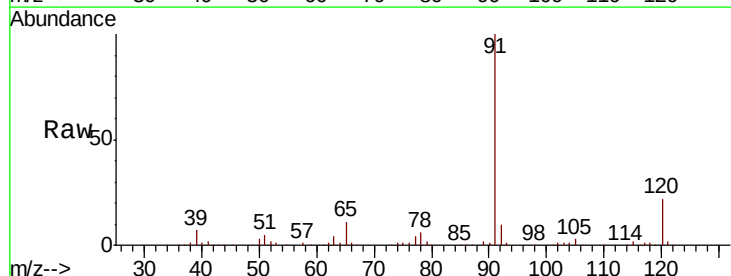
RT: 12.59 min Scan# 3364

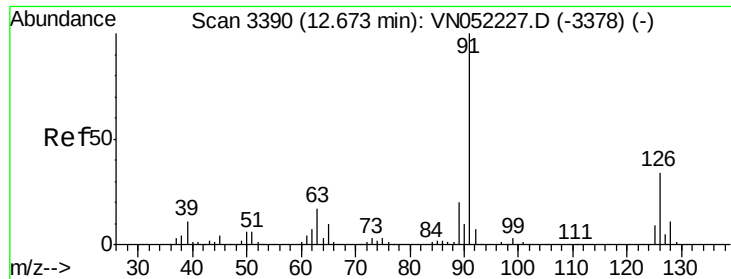
Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.3	11.3	33.8	





#79

2-Chlorotoluene

Concen: 19.331 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion: 91 Resp: 186927

Ion Ratio Lower Upper

91 100

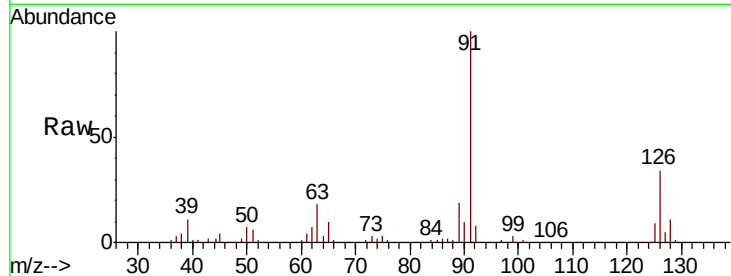
126 33.7 17.0 51.0

Manual Integrations

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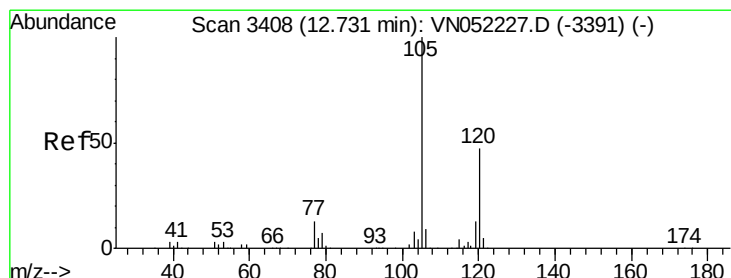
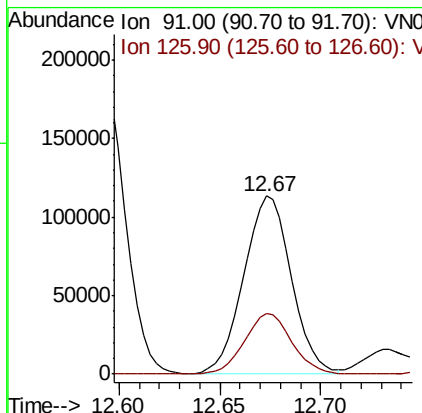
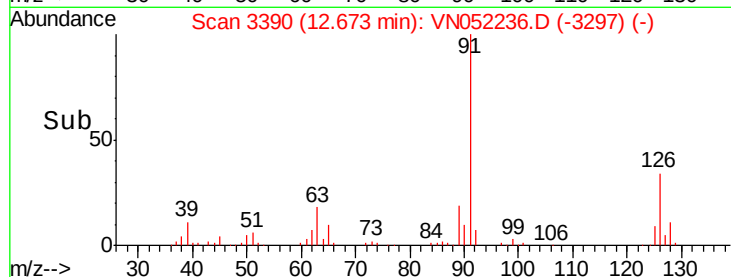
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Abundance Ion 91.00 (90.70 to 91.70): VN052227.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052227.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.710 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052236.D

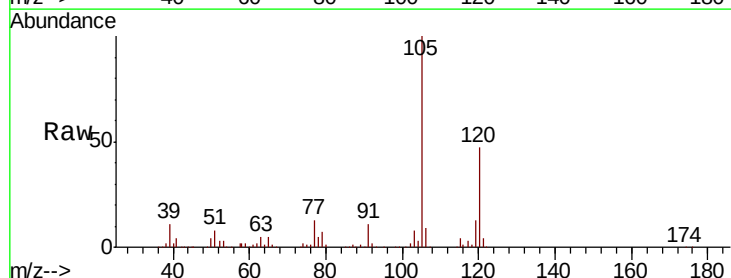
Acq: 9 Nov 2018 19:22

Tgt Ion: 105 Resp: 223394

Ion Ratio Lower Upper

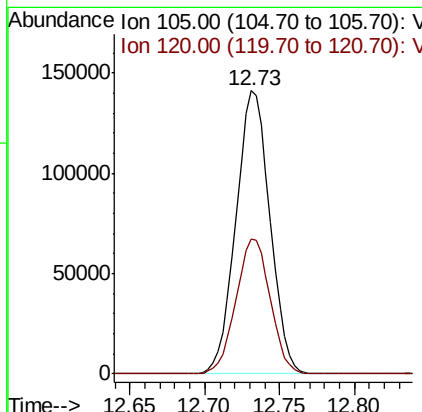
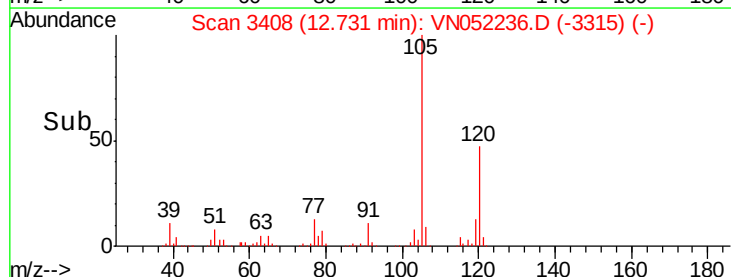
105 100

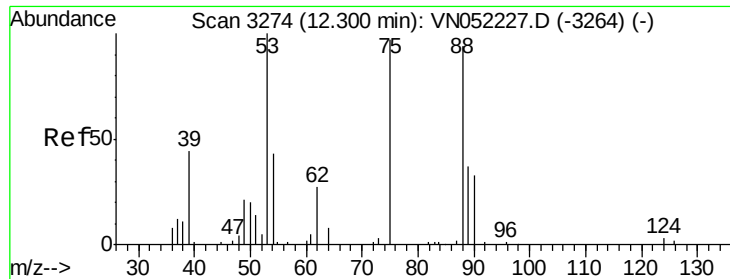
120 48.0 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): VN052227.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052227.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.132 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

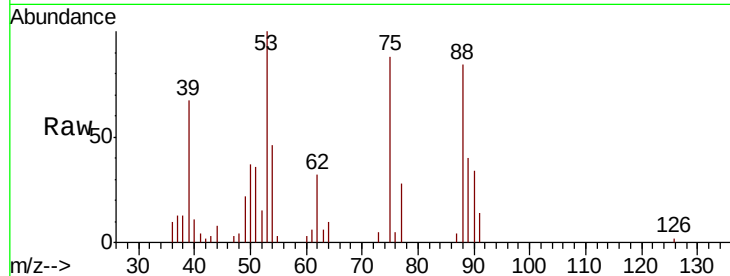
ClientSampleId :

VN1109WBS01

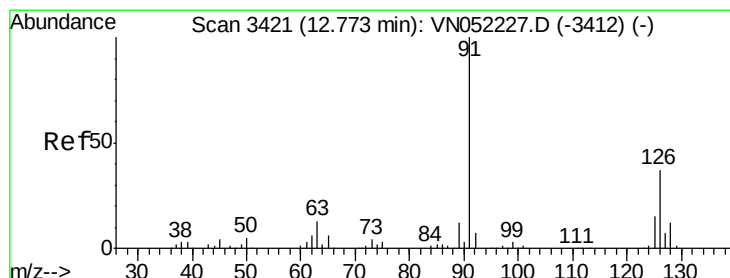
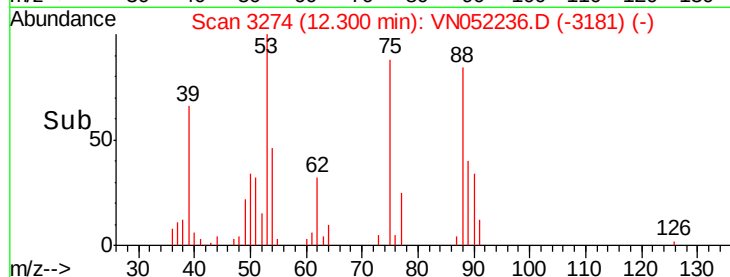
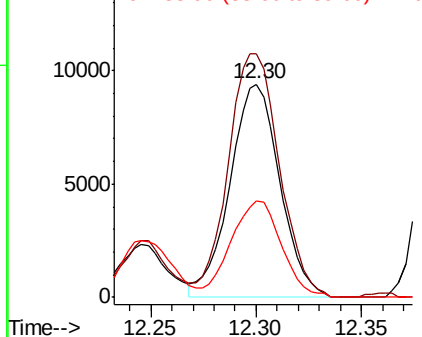
Tot Ion:	75	Resp:	15481
Ion	Ratio	Lower	Upper
75	100		
53	117.2	84.0	126.0
89	46.0	33.7	50.5

Manual Integrations
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Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 19.297 ug/l

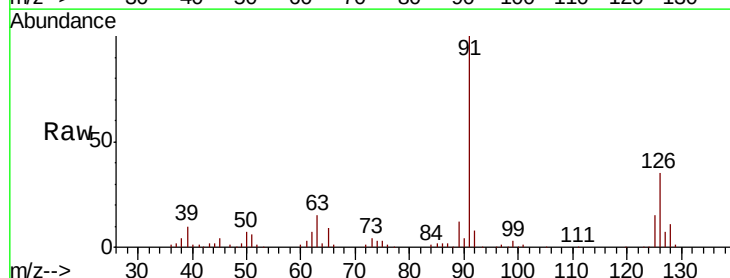
RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

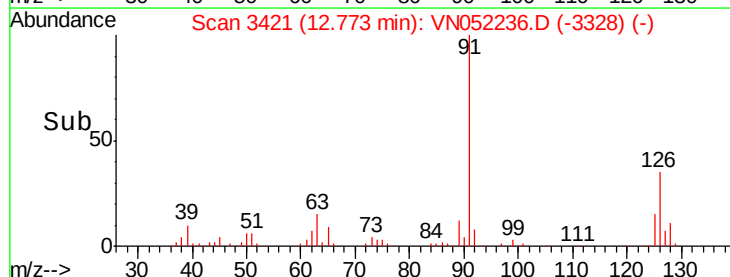
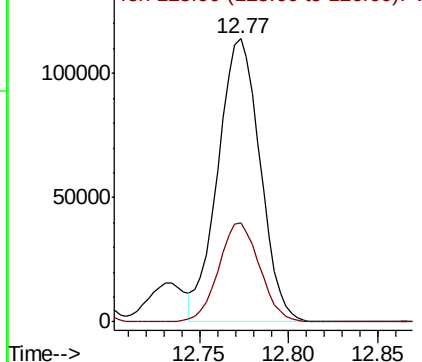
Lab File: VN052236.D

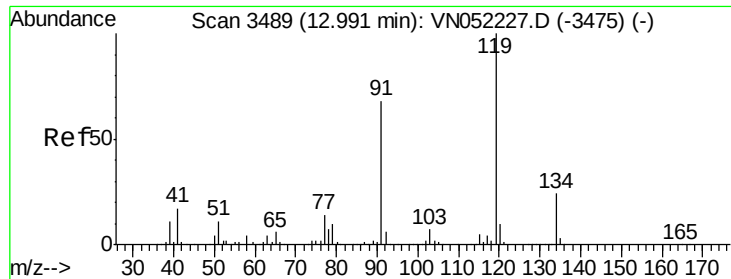
Acq: 9 Nov 2018 19:22

Tgt Ion:	91	Resp:	187227
Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.9	50.7



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 125.90 (125.60 to 126.60): V





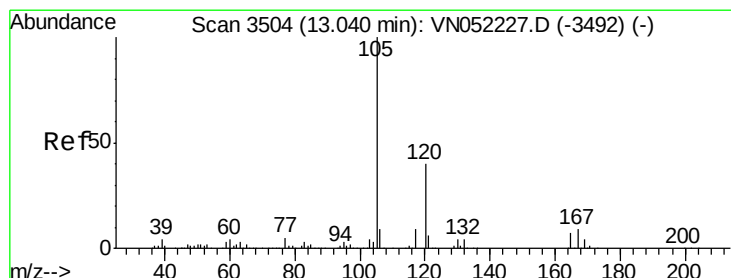
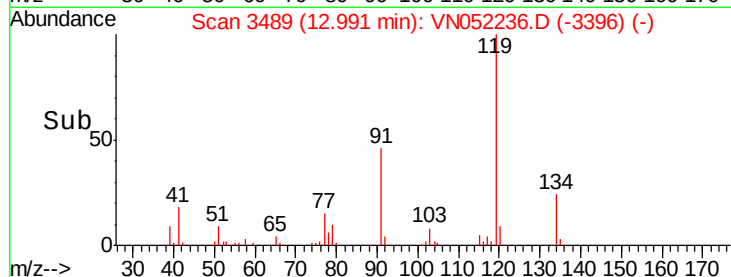
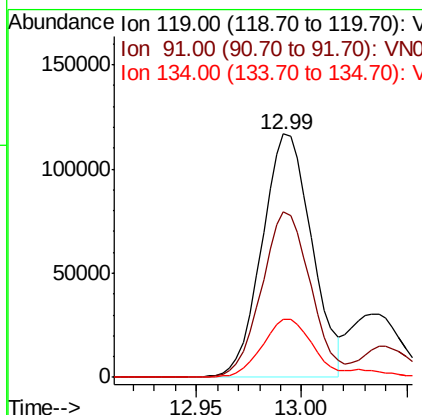
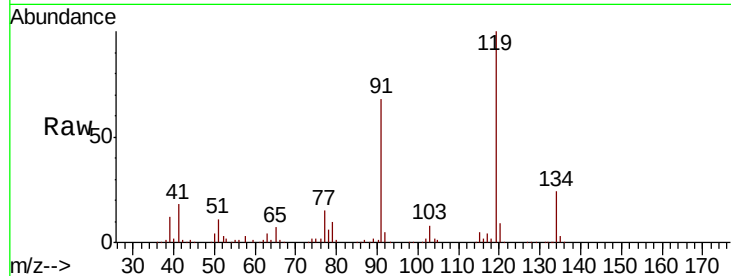
#83
tert-Butylbenzene
Concen: 19.418 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.8	33.5	100.4
134	24.1	13.0	38.9

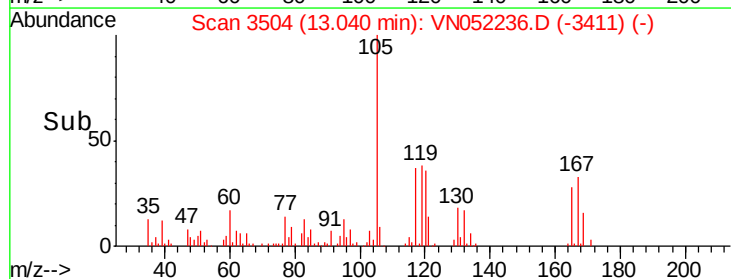
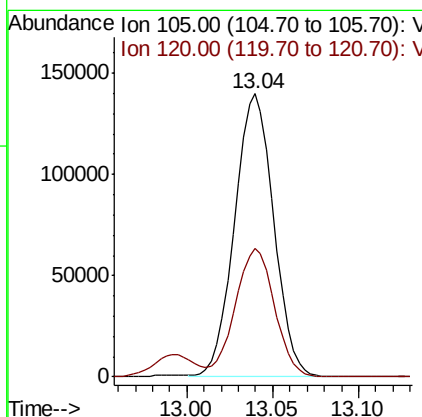
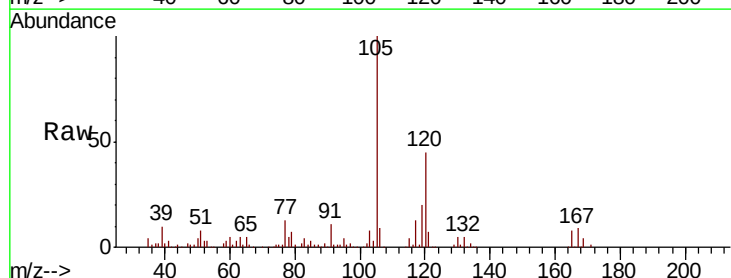
Manual Integrations
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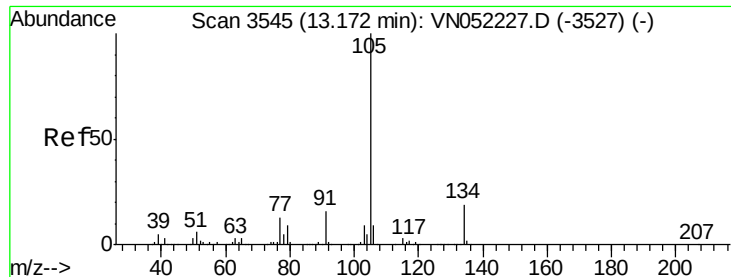
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#84
1,2,4-Trimethylbenzene
Concen: 19.294 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	22.7	68.1





#85

sec-Butylbenzene

Concen: 19.606 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

VN1109WBS01

Tot Ion:105 Resp: 266043

Ion Ratio Lower Upper

105 100

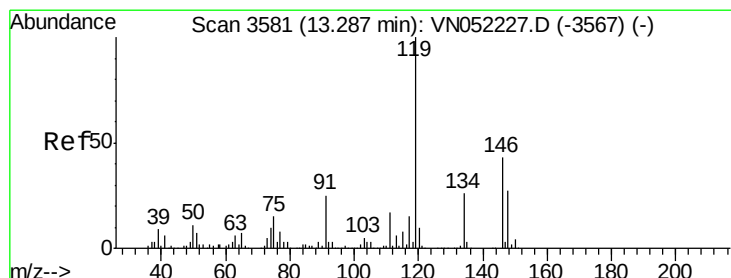
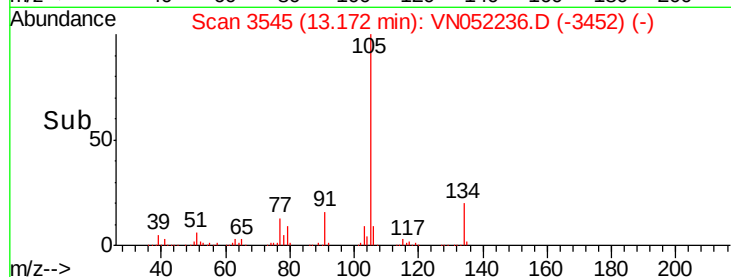
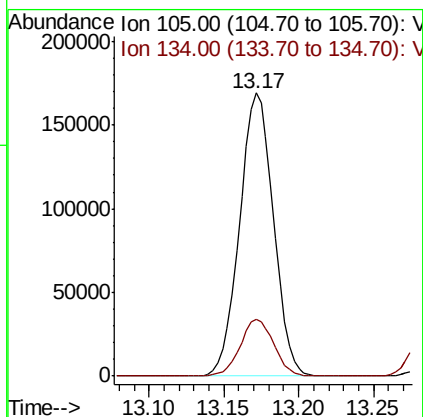
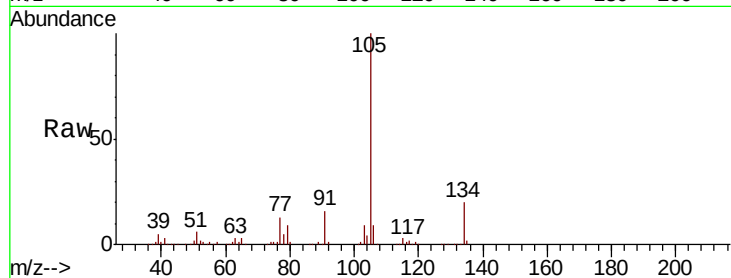
134 19.9 9.7 28.9

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 19.022 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

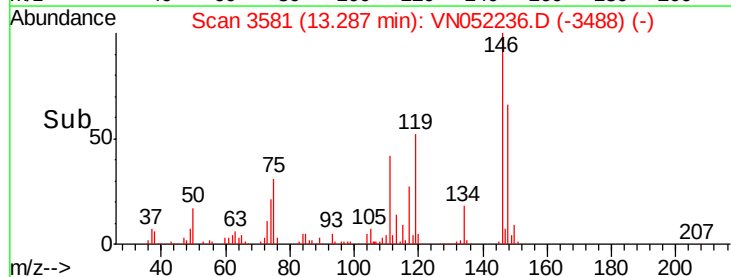
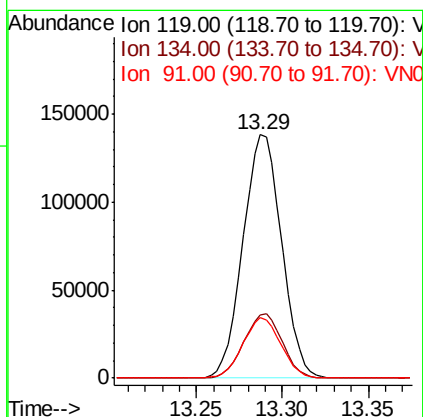
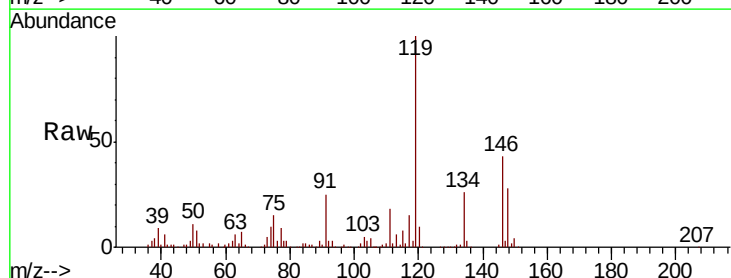
Tgt Ion:119 Resp: 215937

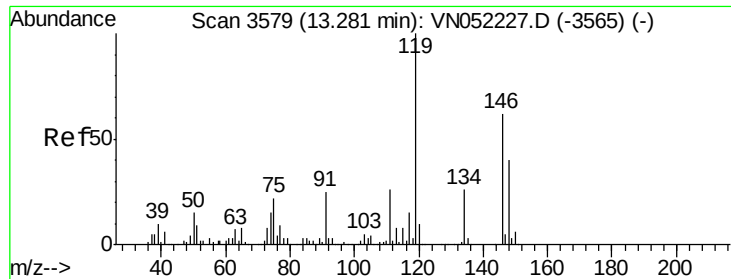
Ion Ratio Lower Upper

119 100

134 26.2 13.2 39.6

91 24.7 12.4 37.0





#87

1,3-Dichlorobenzene

Concen: 18.705 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

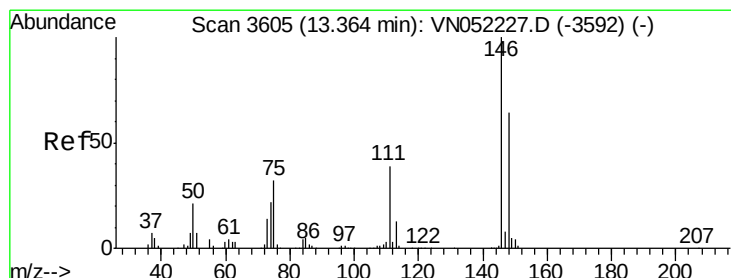
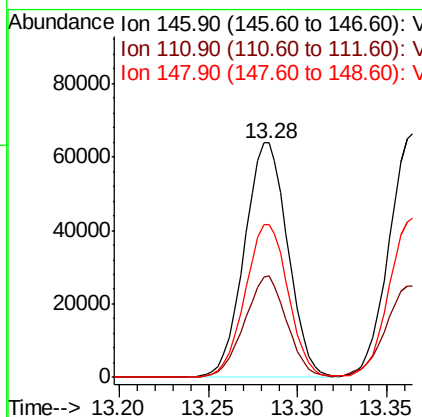
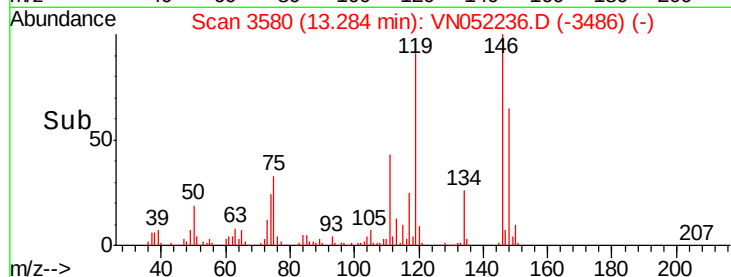
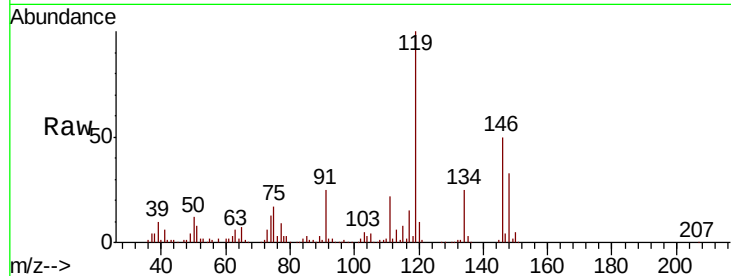
ClientSampleId :

VN1109WBS01

Tot Ion:	146	Resp:	108625
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.1	60.3
148	64.7	31.6	94.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 18.572 ug/l

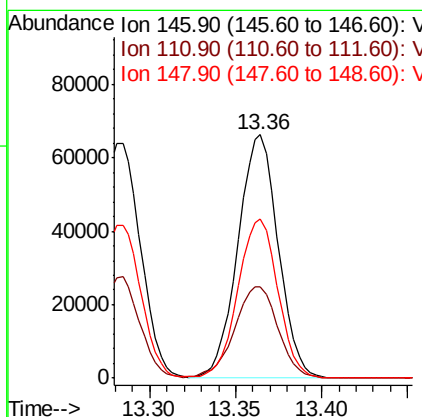
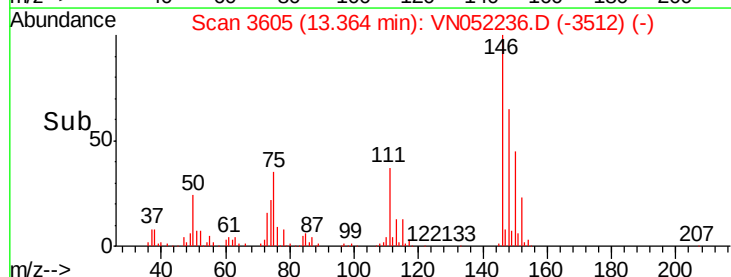
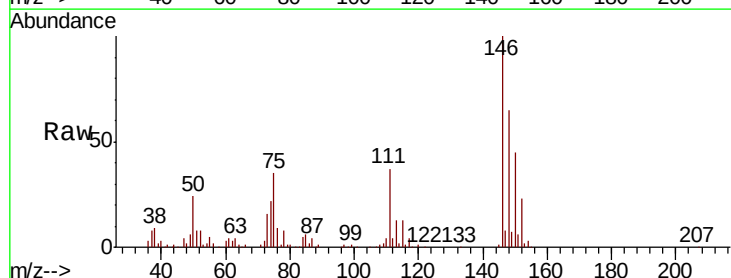
RT: 13.36 min Scan# 3605

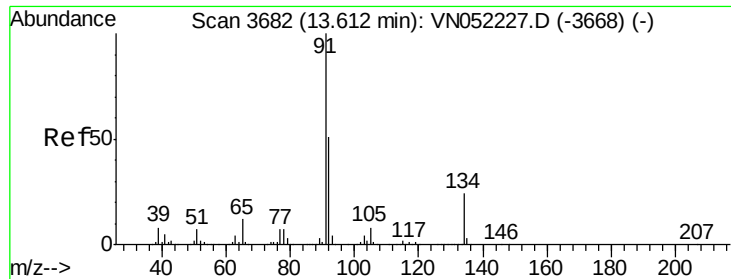
Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion:	146	Resp:	107977
Ion Ratio	Lower	Upper	
146	100		
111	40.7	20.2	60.6
148	65.0	32.1	96.3





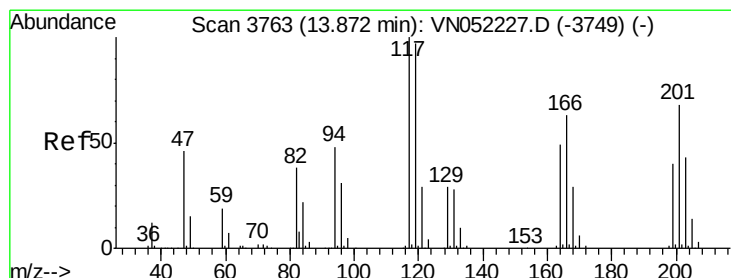
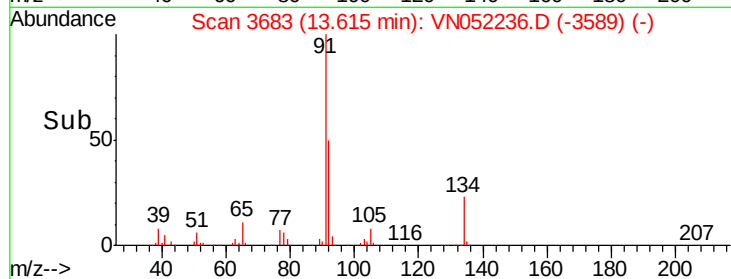
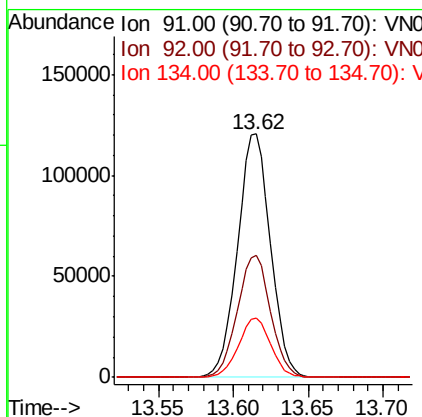
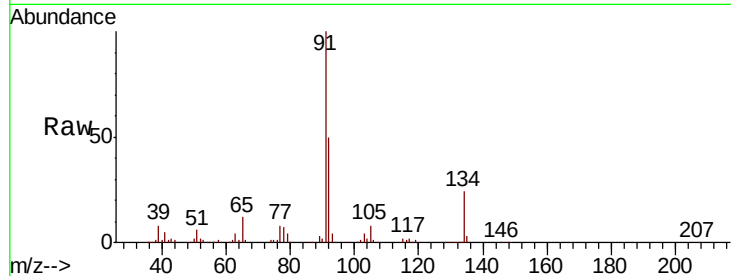
#89
n-Butylbenzene
Concen: 18.286 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
VN1109WBS01

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	50.1	25.1	75.3	
134	23.9	12.0	36.1	

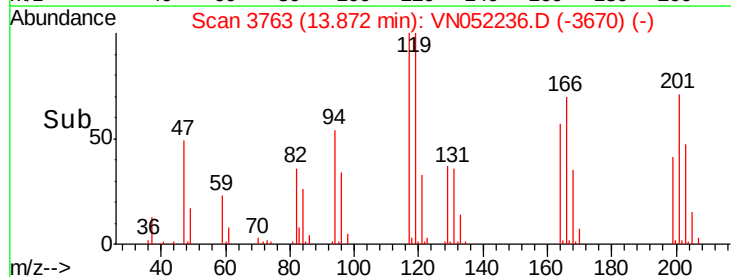
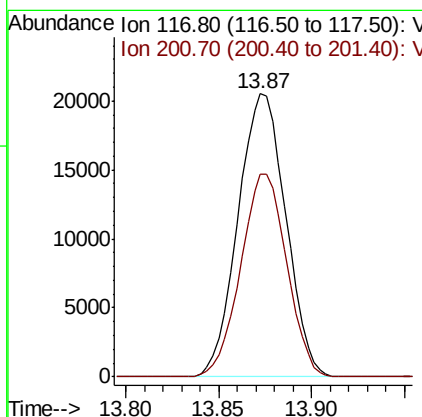
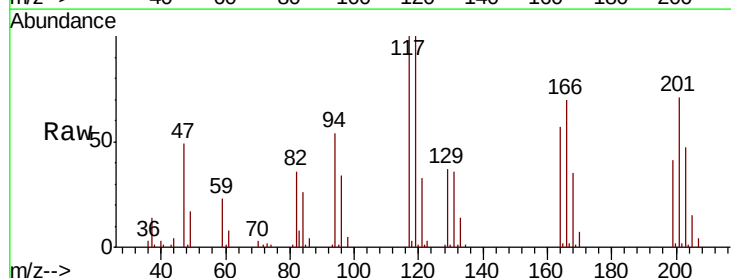
Manual Integrations
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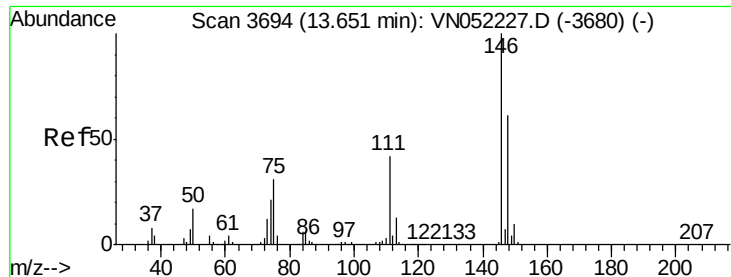
MMDadoda
11/12/2018 9:18:59 AM



#90
Hexachloroethane
Concen: 18.386 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052236.D
Acq: 9 Nov 2018 19:22

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
201	69.1	34.6	103.9	





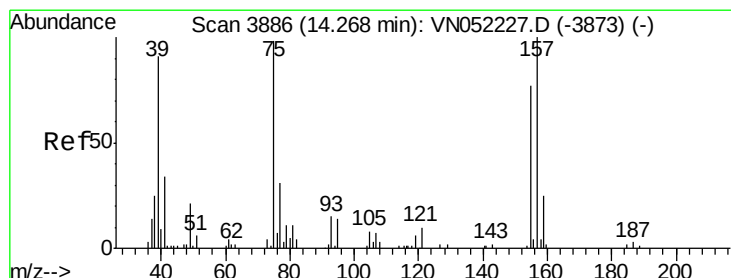
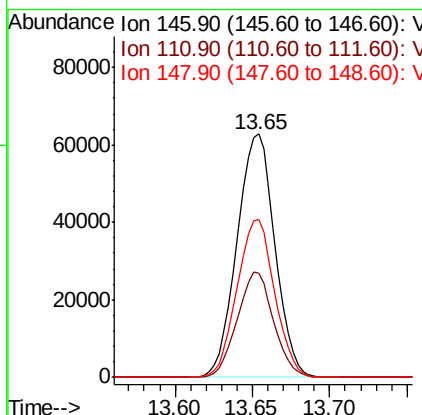
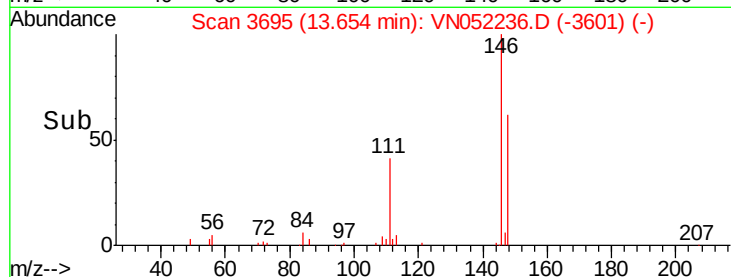
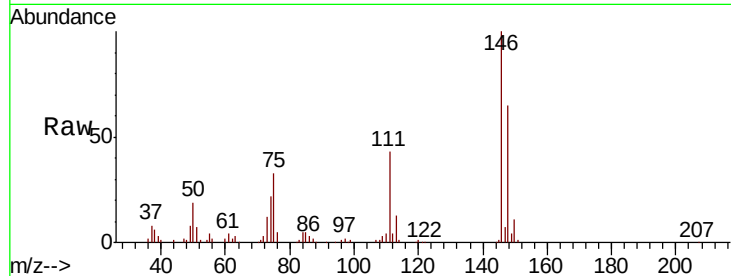
#91
 1,2-Dichlorobenzene
 Concen: 18.831 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	21.1	63.3
148	64.5	31.3	93.8

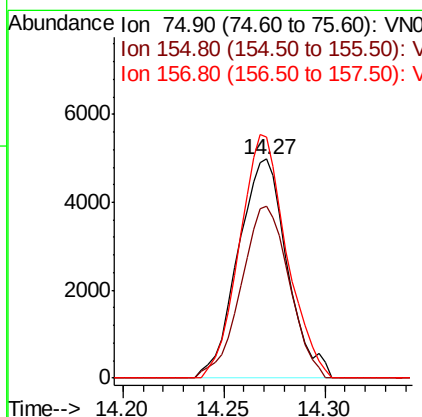
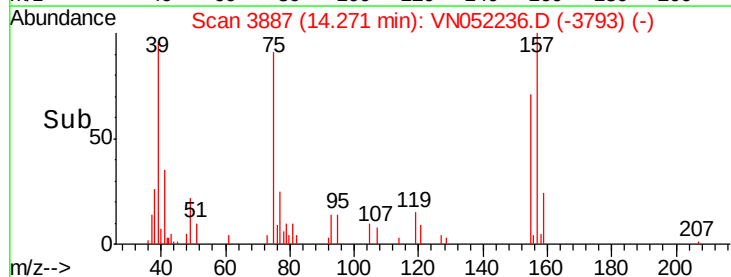
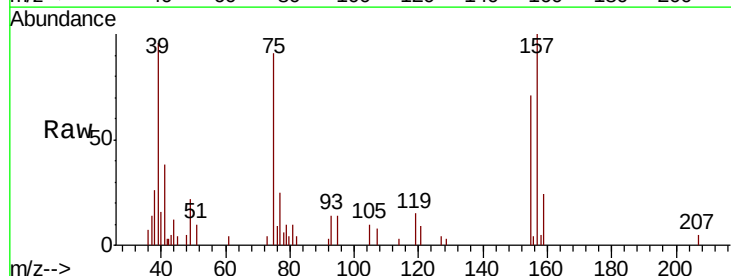
Manual Integrations
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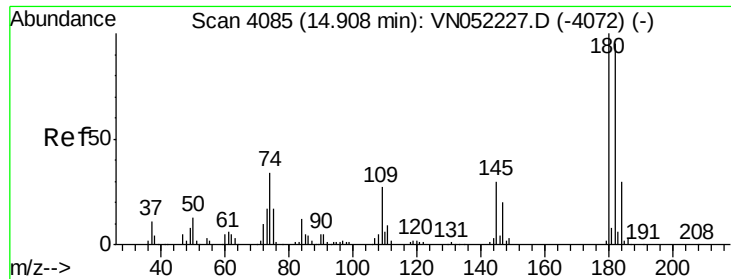
MMDadoda
 11/12/2018 9:18:59 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.064 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.9	40.2	120.5
157	106.7	51.7	155.2





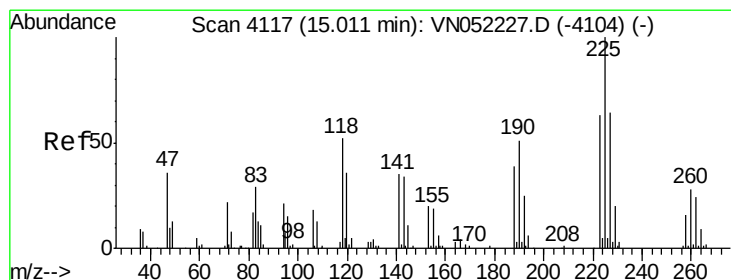
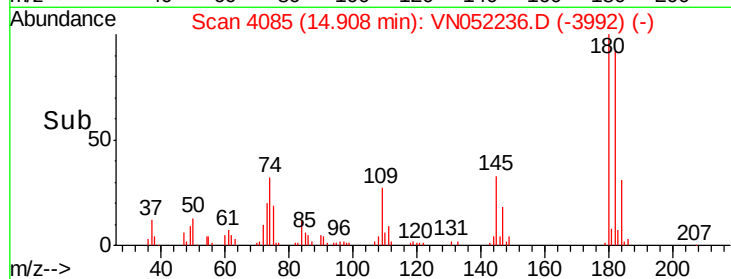
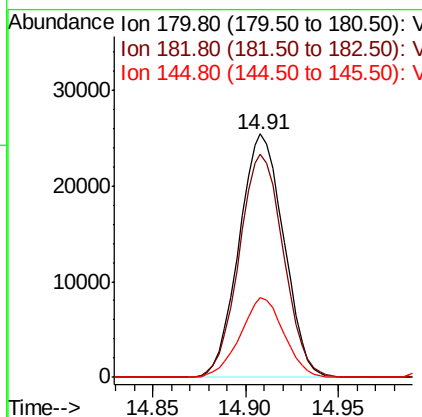
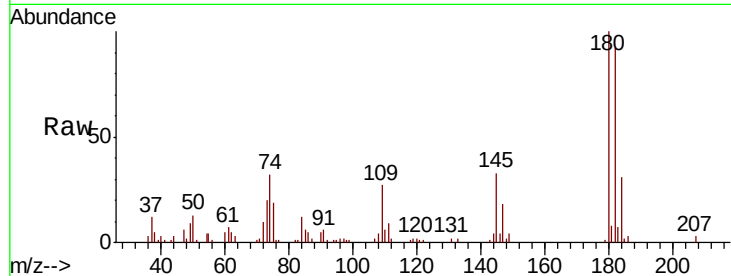
#93
 1,2,4-Trichlorobenzene
 Concen: 18.942 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1109WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.1	47.3	142.0
145	31.8	15.6	46.8

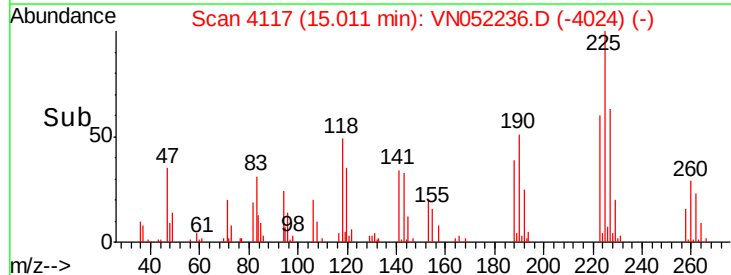
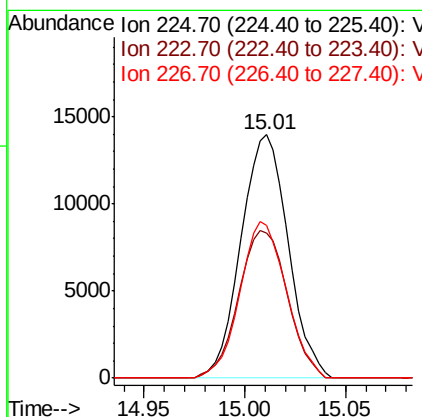
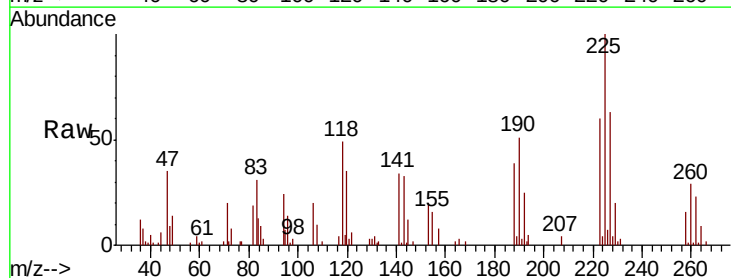
Manual Integrations
 APPROVED

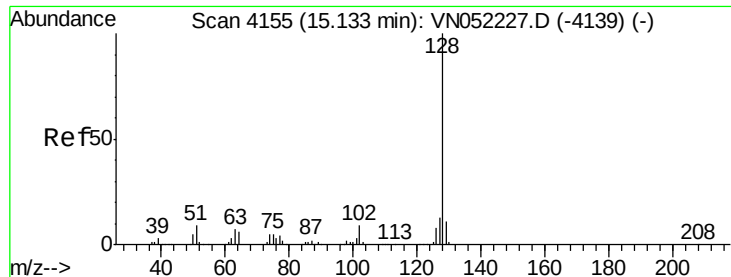
MMDadoda
 11/12/2018 9:18:59 AM



#94
 Hexachlorobutadiene
 Concen: 18.799 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052236.D
 Acq: 9 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	32.1	96.3
227	63.2	31.8	95.4





#95

Naphthalene

Concen: 17.437 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Instrument :

MSVOA_N

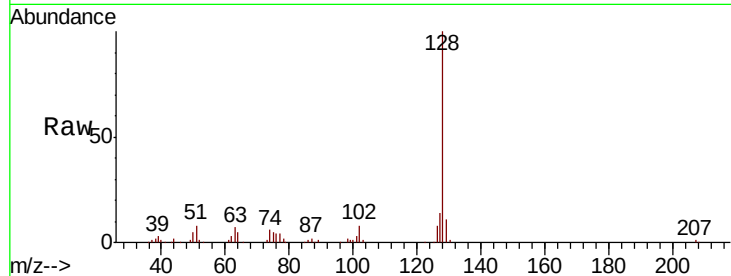
ClientSampleId :

VN1109WBS01

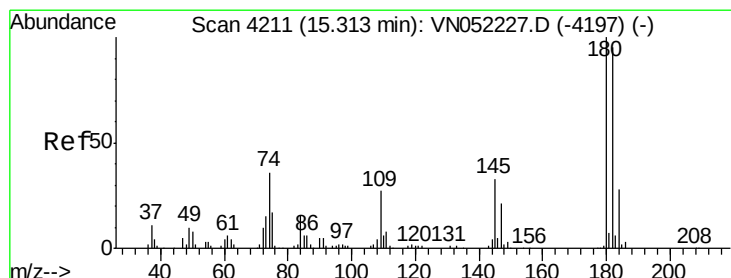
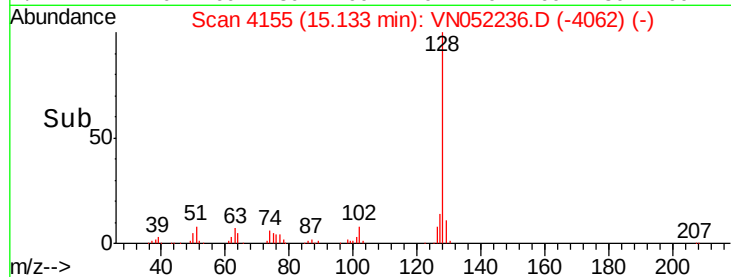
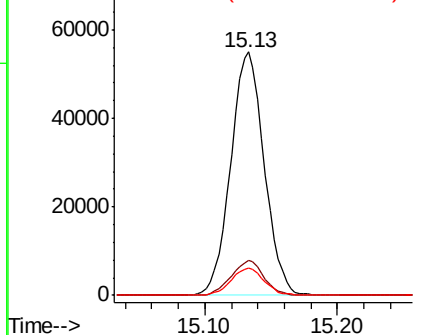
Tot Ion:	128	Resp:	96312
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.6	16.0
129	10.9	8.7	13.1

Manual Integrations
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11/12/2018 9:18:59 AM



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



#96

1,2,3-Trichlorobenzene

Concen: 17.972 ug/l

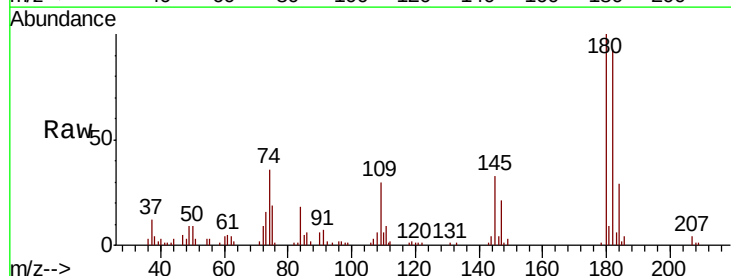
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052236.D

Acq: 9 Nov 2018 19:22

Tgt Ion:	180	Resp:	38080
Ion Ratio	Lower	Upper	
180	100		
182	93.7	47.7	143.1
145	32.1	16.8	50.3



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

