

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
 Data File : VN051812.D
 Acq On : 11 Oct 2018 12:46
 Operator : MD\SY
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 3:00:15 PM

Quant Time: Oct 11 13:08:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 13:05:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1005433	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1471358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1399134	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	775104	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	1384650	142.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	285.36%	
35) Dibromofluoromethane	7.59	113	1398342	153.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	307.14%	
50) Toluene-d8	10.09	98	5237519	154.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	309.12%	
62) 4-Bromofluorobenzene	12.40	95	1898480	164.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	328.82%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	899042	163.49	ug/l	100
3) Chloromethane	2.06	50	933199	135.88	ug/l	99
4) Vinyl Chloride	2.18	62	1434031	139.84	ug/l	99
5) Bromomethane	2.53	94	1266265	136.32	ug/l	100
6) Chloroethane	2.68	64	1017987	134.36	ug/l	100
7) Trichlorofluoromethane	3.00	101	2055807	134.13	ug/l	99
8) Diethyl Ether	3.41	74	623699	150.25	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.75	101	1145300	141.27	ug/l	98
10) Methyl Iodide	3.95	142	1772832	172.63	ug/l	95
11) Tert butyl alcohol	4.80	59	537165	762.59	ug/l	100
12) 1,1-Dichloroethene	3.73	96	1078976	149.42	ug/l	90
13) Acrolein	3.61	56	562368	866.13	ug/l	98
14) Allyl chloride	4.32	41	1330162	146.19	ug/l #	78
15) Acrylonitrile	4.99	53	1813336	796.33	ug/l	99
16) Acetone	3.82	43	1354375	637.09	ug/l	100
17) Carbon Disulfide	4.05	76	3000656	154.34	ug/l	99
18) Methyl Acetate	4.33	43	803119	133.17	ug/l #	87
19) Methyl tert-butyl Ether	5.05	73	3423733	150.84	ug/l	92
20) Methylene Chloride	4.55	84	1238734	143.36	ug/l	87
21) trans-1,2-Dichloroethene	5.04	96	1287658	152.36	ug/l	87
22) Diisopropyl ether	5.96	45	2914686	144.71	ug/l #	90
23) Vinyl Acetate	5.90	43	11163602	764.59	ug/l #	90
24) 1,1-Dichloroethane	5.85	63	1995161	144.09	ug/l	97
25) 2-Butanone	6.84	43	2097036	709.59	ug/l #	86
26) 2,2-Dichloropropane	6.83	77	2011760	143.39	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	1486150	152.59	ug/l	87
28) Bromochloromethane	7.20	49	822219	141.05	ug/l #	58
29) Tetrahydrofuran	7.21	42	1298226	742.62	ug/l #	77
30) Chloroform	7.37	83	2426929	147.08	ug/l	100
31) Cyclohexane	7.65	56	1653780	120.46	ug/l #	82
32) 1,1,1-Trichloroethane	7.57	97	2335395	151.49	ug/l	95
36) 1,1-Dichloropropene	7.80	75	1736328	144.95	ug/l	94
37) Ethyl Acetate	6.93	43	931385	152.76	ug/l #	96
38) Carbon Tetrachloride	7.78	117	2175159	159.13	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	2204321	150.77	ug/l #	88
40) Benzene	8.04	78	5139461	149.48	ug/l	100
41) Methacrylonitrile	7.17	41	442402	150.06	ug/l #	84
42) 1,2-Dichloroethane	8.13	62	1654636	146.28	ug/l	99
43) Isopropyl Acetate	8.17	43	1810730	146.19	ug/l #	84
44) Trichloroethene	8.84	130	1622045	156.11	ug/l	95
45) 1,2-Dichloropropane	9.12	63	1176292	144.74	ug/l	100
46) Dibromomethane	9.21	93	958137	155.47	ug/l	98
47) Bromodichloromethane	9.40	83	1957994	159.77	ug/l	98
48) Methyl methacrylate	9.20	41	840199	155.09	ug/l #	78
49) 1,4-Dioxane	9.20	88	332839	3701.41	ug/l #	83
51) 4-Methyl-2-Pentanone	9.99	43	4893956	775.20	ug/l	96
52) Toluene	10.16	92	3662828	160.62	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	2039164	167.49	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	2141024	158.64	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	1346421	156.19	ug/l	96
56) Ethyl methacrylate	10.43	69	1672010	166.59	ug/l #	89
57) 1,3-Dichloropropane	10.71	76	2035223	151.12	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	3626502	829.10	ug/l #	86
59) 2-Hexanone	10.75	43	3446940	777.83	ug/l	95
60) Dibromochloromethane	10.90	129	1781812	178.37	ug/l	99
61) 1,2-Dibromoethane	11.01	107	1480407	169.12	ug/l	99
64) Tetrachloroethene	10.63	164	1551862	143.58	ug/l	99
65) Chlorobenzene	11.44	112	4331702	153.72	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	1685349	157.59	ug/l	99
67) Ethyl Benzene	11.51	91	7145235	153.06	ug/l	96
68) m/p-Xylenes	11.62	106	5921010	315.65	ug/l	93
69) o-Xylene	11.95	106	2894172	159.08	ug/l	92
70) Styrene	11.97	104	4772918	172.58	ug/l	97
71) Bromoform	12.13	173	1364754	190.41	ug/l #	100
73) Isopropylbenzene	12.25	105	7739734	126.15	ug/l	97
74) N-amyl acetate	12.07	43	1712518	143.55	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	1694650	125.69	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	1460641m	133.66	ug/l	
77) Bromobenzene	12.53	156	2099599	139.31	ug/l	85
78) n-propylbenzene	12.59	91	8432120	132.14	ug/l	94
79) 2-Chlorotoluene	12.68	91	4886867	126.29	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	6538352	131.60	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	528683	158.56	ug/l	93
82) 4-Chlorotoluene	12.78	91	5052533	137.64	ug/l	94
83) tert-Butylbenzene	12.99	119	5949545	128.69	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	6670451	135.43	ug/l	98
85) sec-Butylbenzene	13.17	105	7867851	131.83	ug/l	97
86) p-Isopropyltoluene	13.29	119	7331519	141.17	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	3892033	153.39	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	3767636	153.16	ug/l	98
89) n-Butylbenzene	13.62	91	5852766	153.72	ug/l	97
90) Hexachloroethane	13.88	117	1312249	138.86	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	3698790	150.35	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	280245	144.17	ug/l	83

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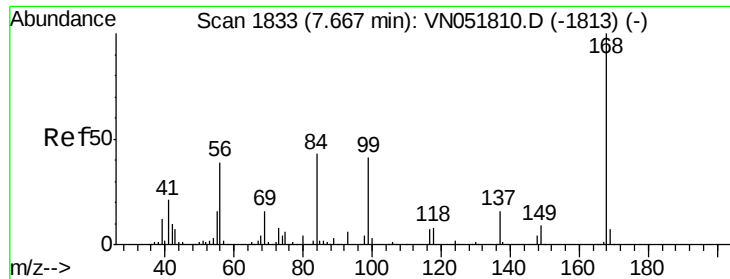
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	2095213	209.65	ug/l	98
94) Hexachlorobutadiene	15.01	225	1099611	136.08	ug/l	100
95) Naphthalene	15.14	128	4678934	213.56	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	2006318	194.45	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

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VSTDIC150

Tgt Ion:168 Resp: 1005433

Ion Ratio Lower Upper

168 100

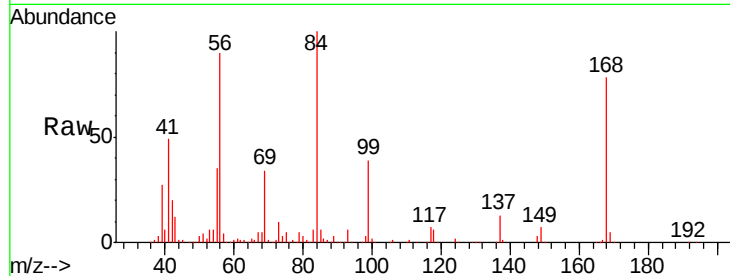
99 49.5 39.6 59.4

Manual Integrations

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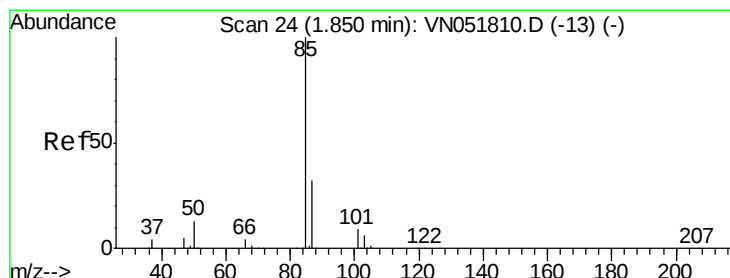
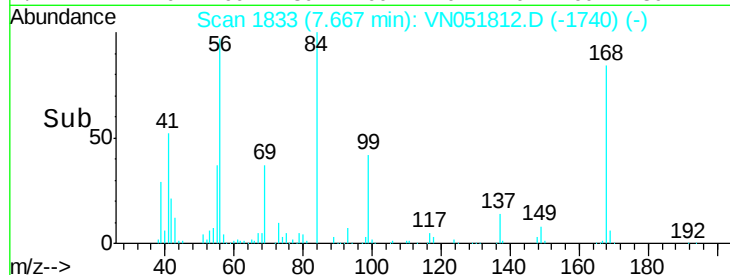
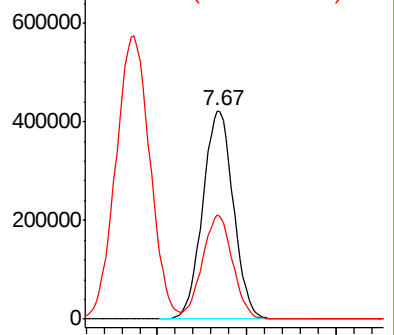
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 163.49 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051812.D

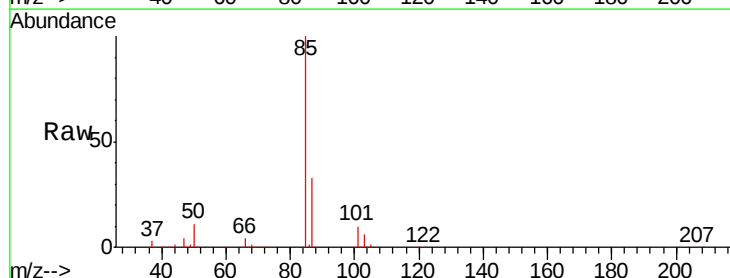
Acq: 11 Oct 2018 12:46

Tgt Ion: 85 Resp: 899042

Ion Ratio Lower Upper

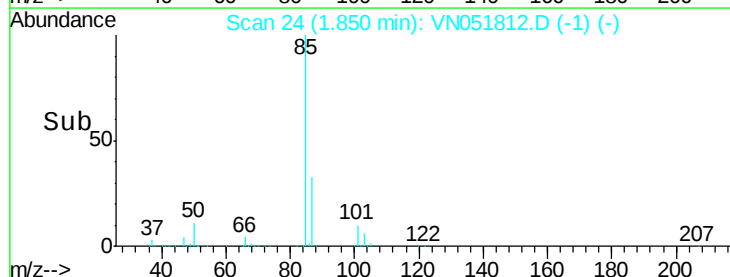
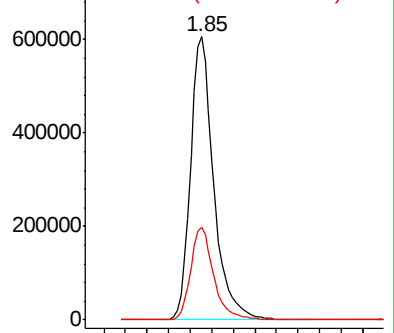
85 100

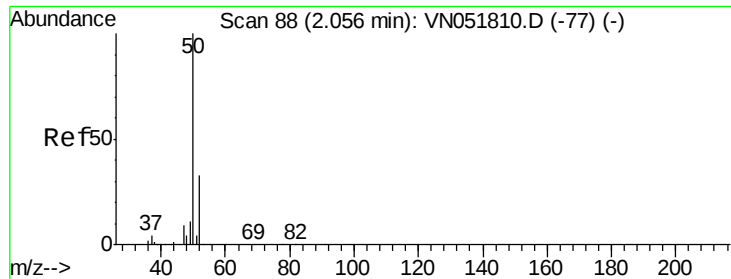
87 32.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 135.88 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 50 Resp: 933199

Ion Ratio Lower Upper

50 100

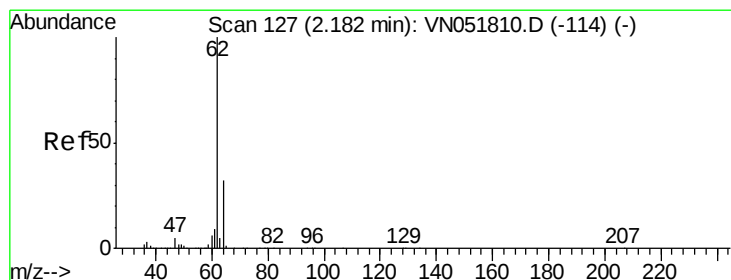
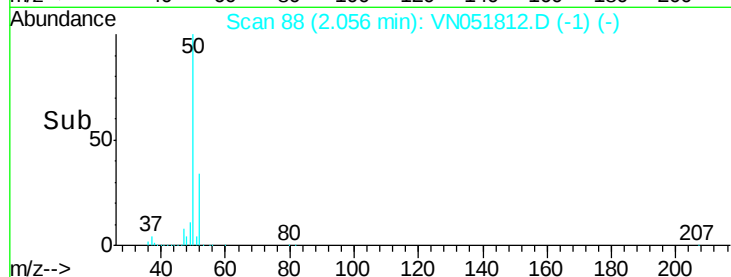
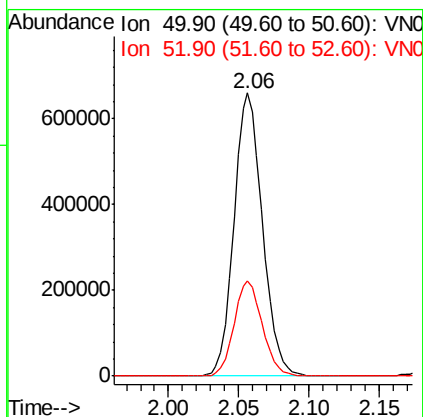
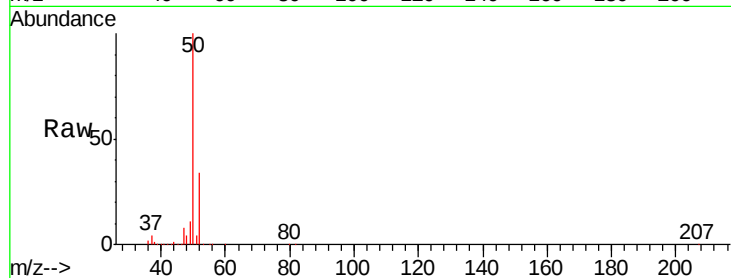
52 33.7 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 139.84 ug/l

RT: 2.18 min Scan# 126

Delta R.T. -0.00 min

Lab File: VN051812.D

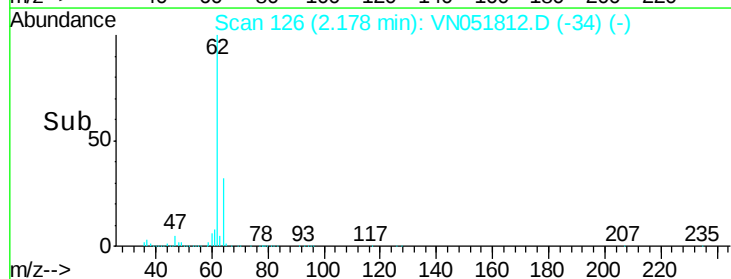
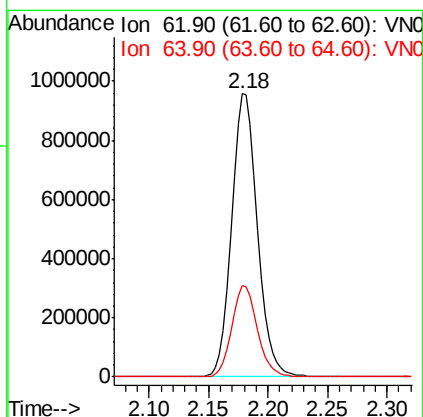
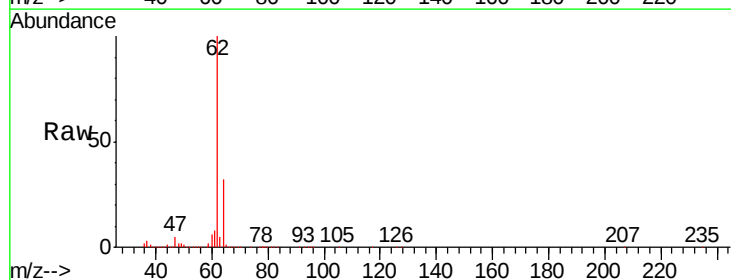
Acq: 11 Oct 2018 12:46

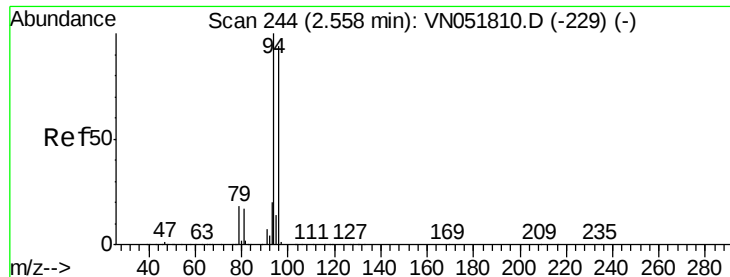
Tgt Ion: 62 Resp: 1434031

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.2





#5

Bromomethane

Concen: 136.32 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.03 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 1266265

Ion Ratio Lower Upper

94 100

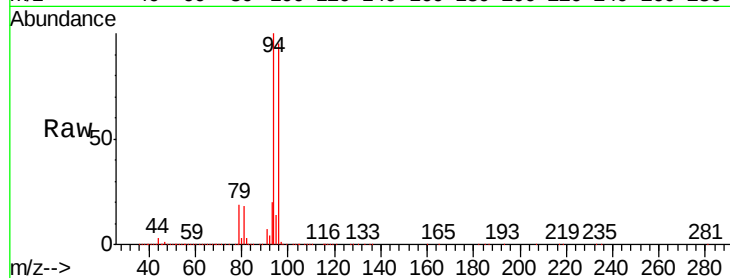
96 95.0 76.2 114.2

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.53

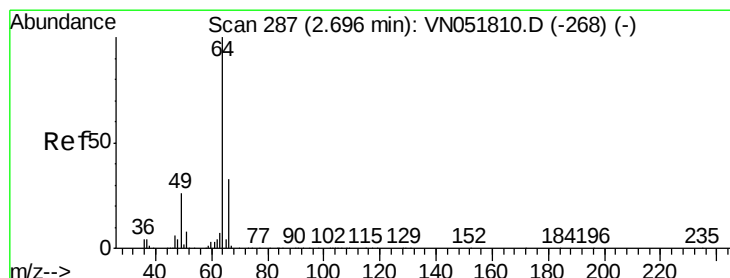
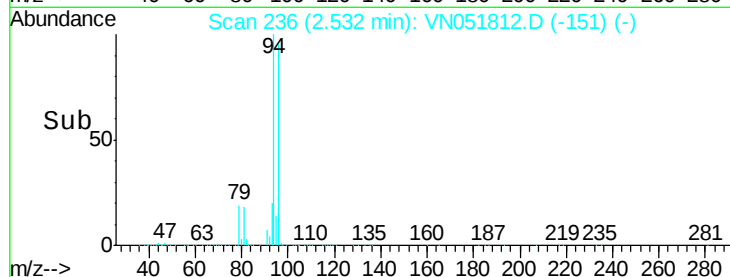
600000

400000

200000

0

Time-->



#6

Chloroethane

Concen: 134.36 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN051812.D

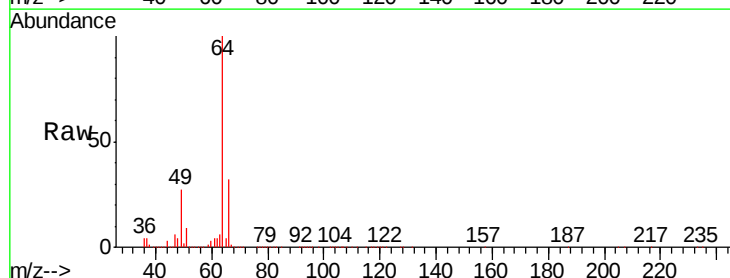
Acq: 11 Oct 2018 12:46

Tgt Ion: 64 Resp: 1017987

Ion Ratio Lower Upper

64 100

66 31.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.68

500000

400000

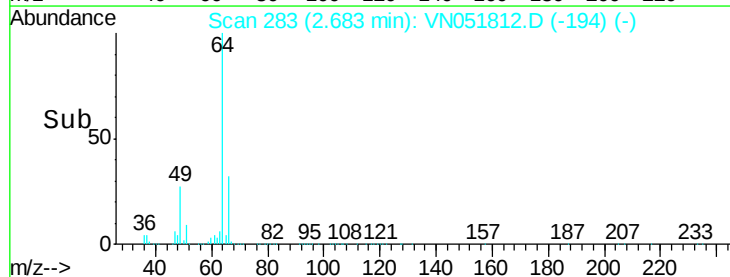
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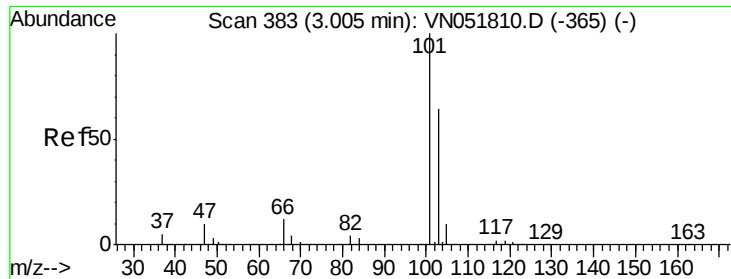
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100000

0

Time-->





#7

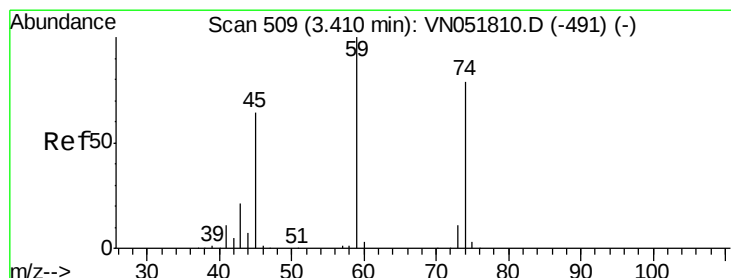
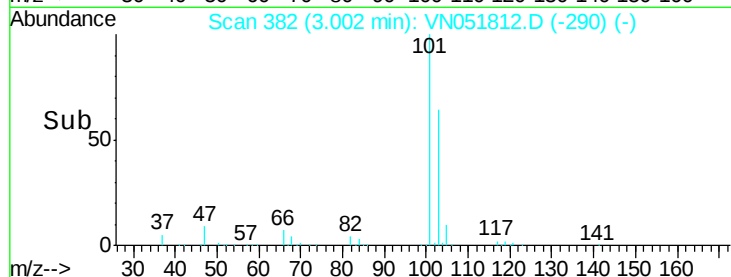
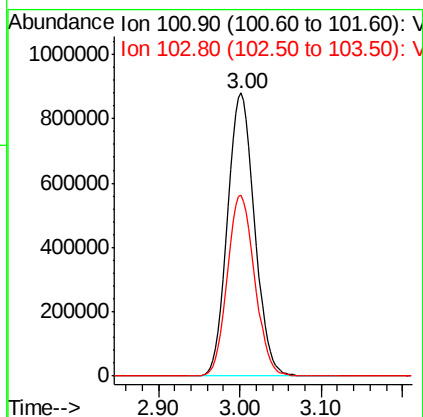
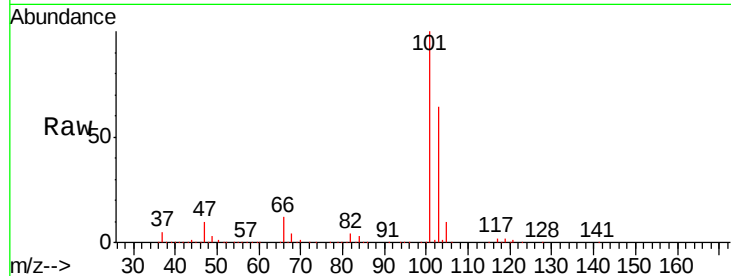
Trichlorofluoromethane
Concen: 134.13 ug/l
RT: 3.00 min Scan# 382
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 101 Resp: 2055807
Ion Ratio Lower Upper
101 100
103 63.8 51.6 77.4

Manual Integrations
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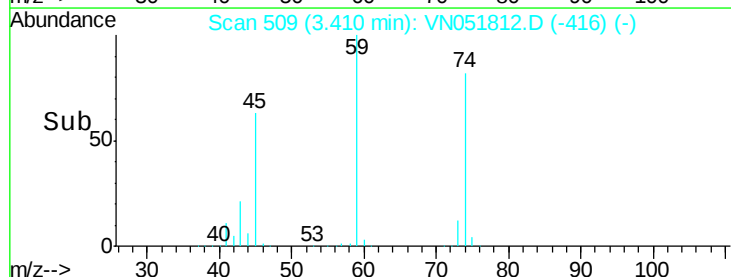
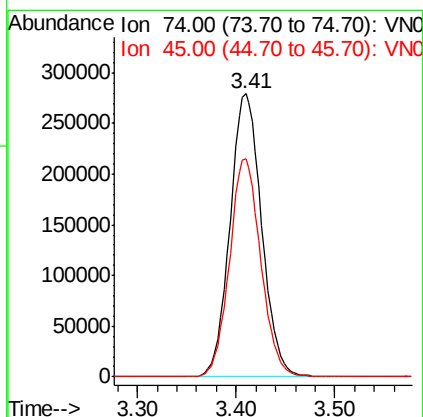
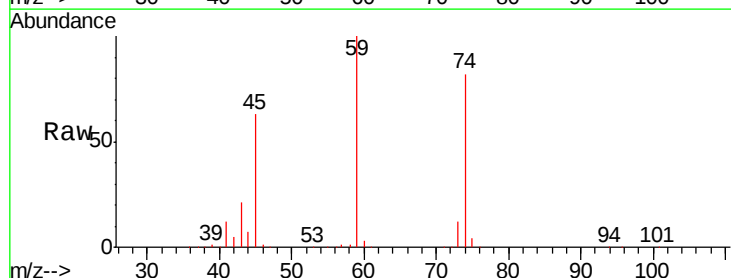
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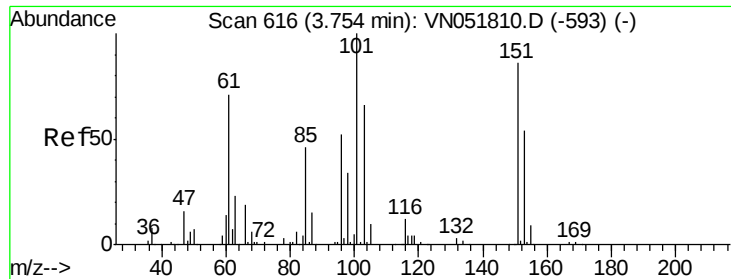


#8

Diethyl Ether
Concen: 150.25 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 74 Resp: 623699
Ion Ratio Lower Upper
74 100
45 76.1 48.2 144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 141.27 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:101 Resp: 1145300

Ion Ratio Lower Upper

101 100

85 43.7 33.7 50.5

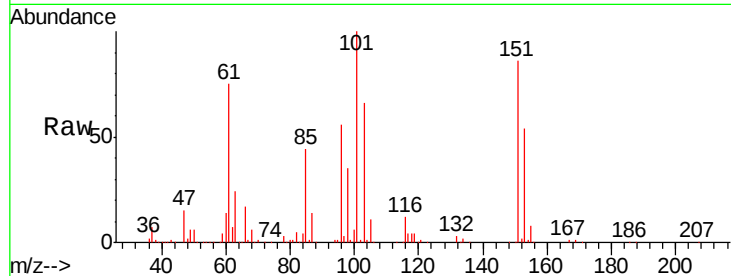
151 85.7 67.4 101.2

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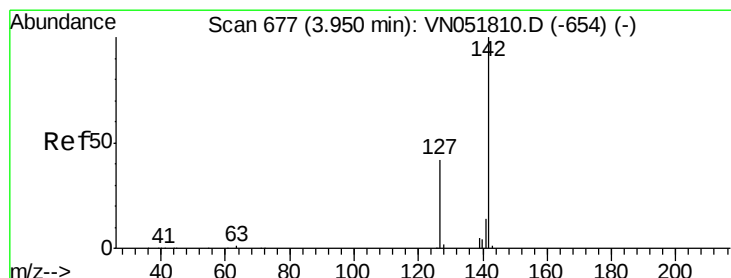
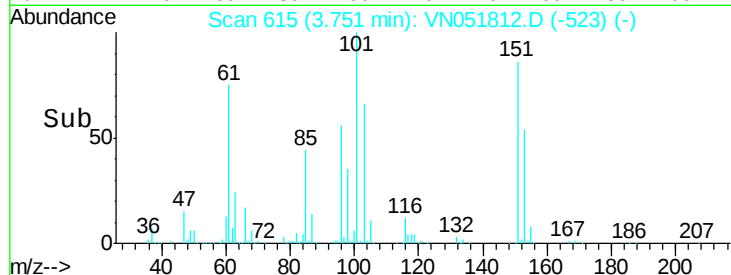
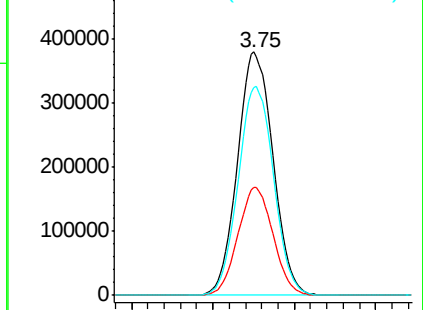
10/15/2018 3:00:15 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 172.63 ug/l

RT: 3.95 min Scan# 677

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

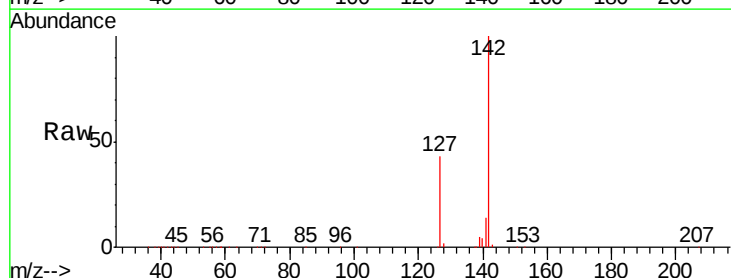
Tgt Ion:142 Resp: 1772832

Ion Ratio Lower Upper

142 100

127 43.6 31.7 47.5

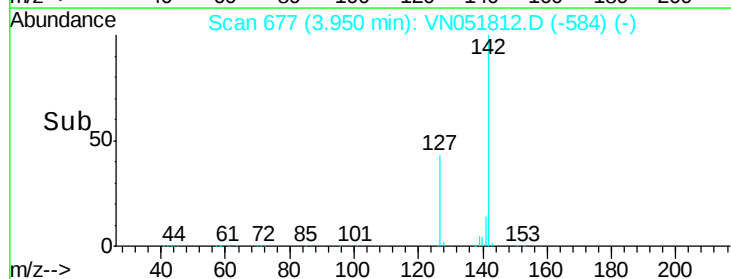
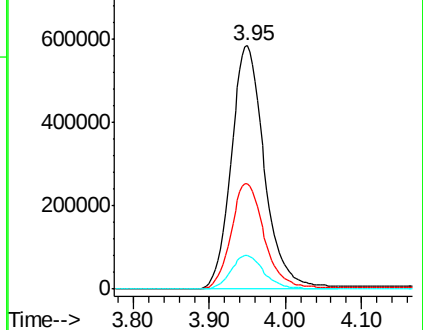
141 14.0 11.4 17.0

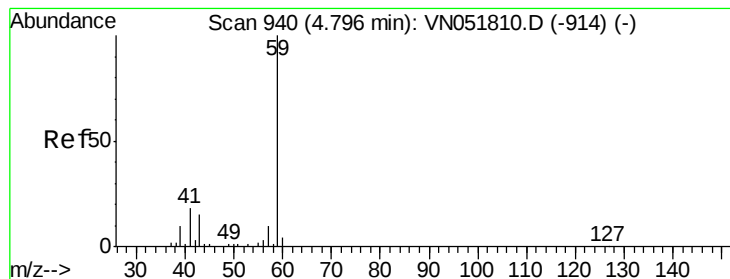


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

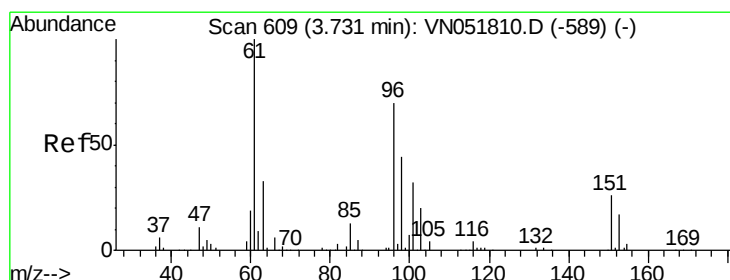
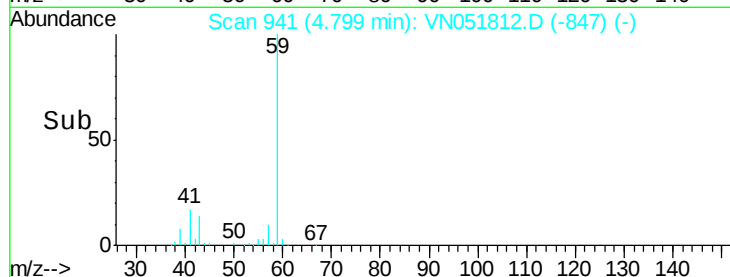
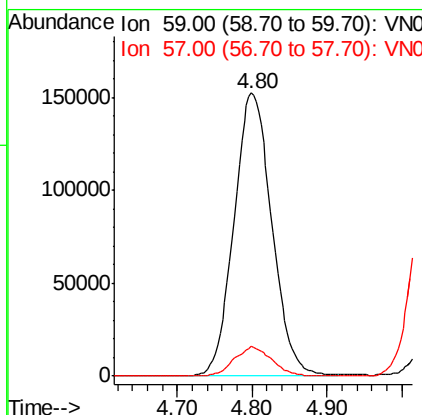
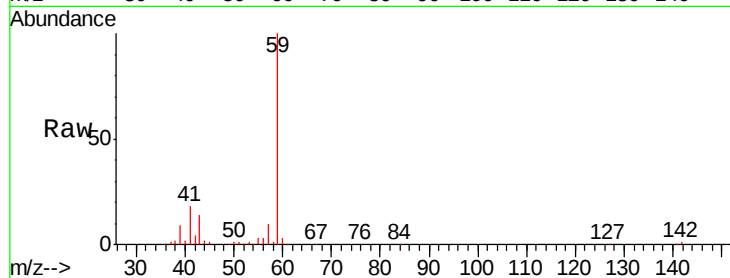
Tert butyl alcohol
Concen: 762.59 ug/l
RT: 4.80 min Scan# 941
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5

Manual Integrations
APPROVED

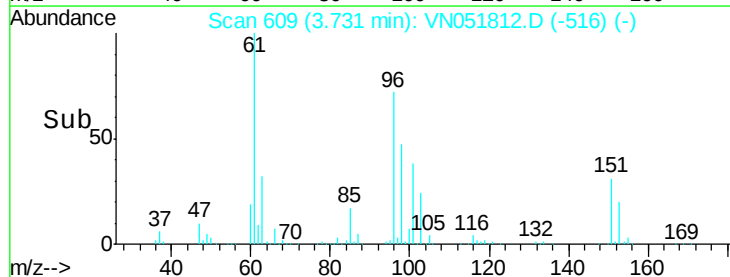
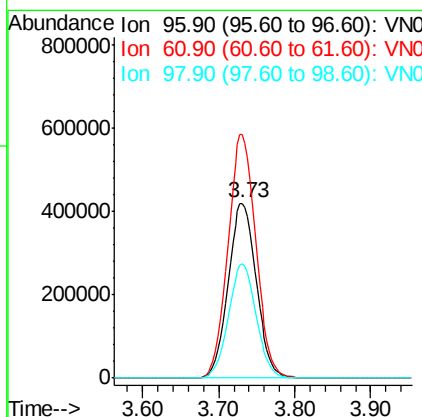
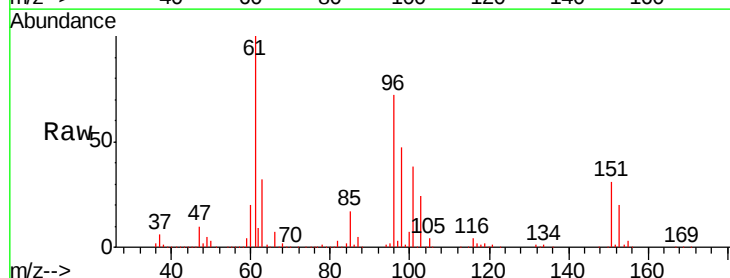
MMDadoda
10/15/2018 3:00:15 PM

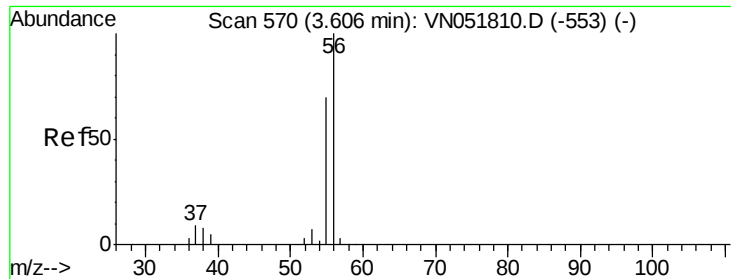


#12

1,1-Dichloroethene
Concen: 149.42 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.1	124.9	187.3
98	65.4	51.1	76.7





#13

Acrolein

Concen: 866.13 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 562368

Ion Ratio Lower Upper

56 100

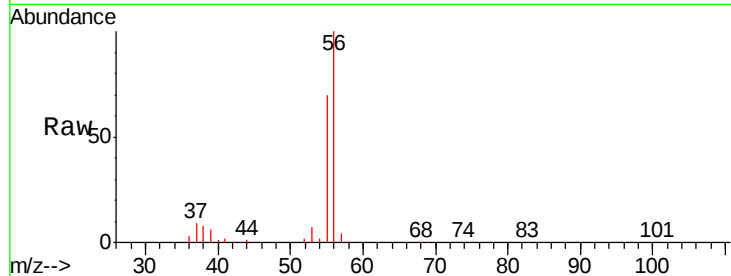
55 70.3 57.7 86.5

Manual Integrations

APPROVED

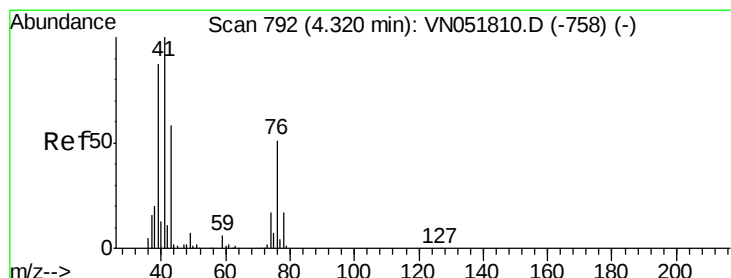
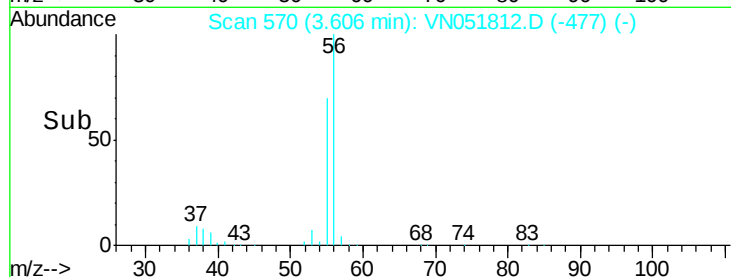
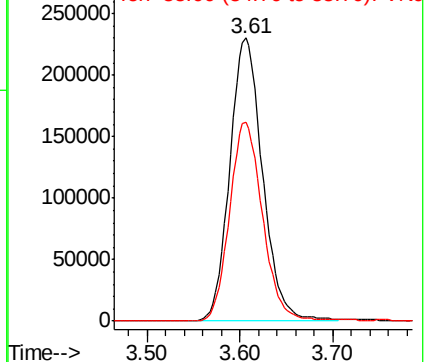
MMDadoda

10/15/2018 3:00:15 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 146.19 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

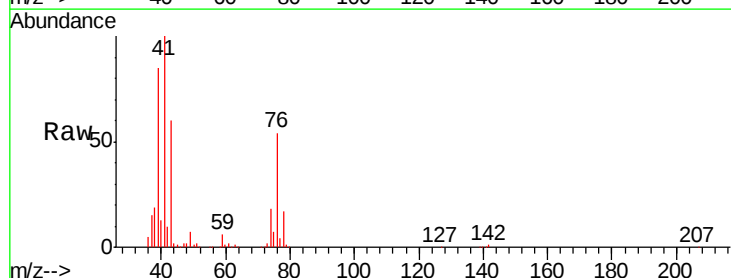
Tgt Ion: 41 Resp: 1330162

Ion Ratio Lower Upper

41 100

39 80.6 50.2 75.2#

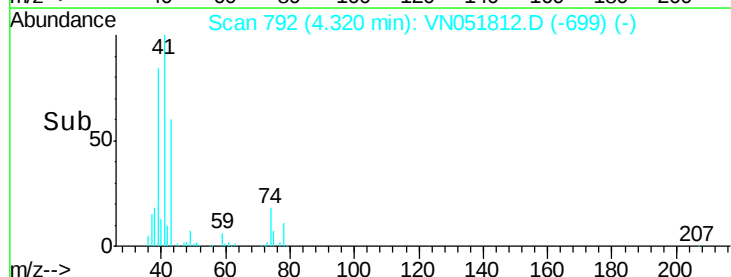
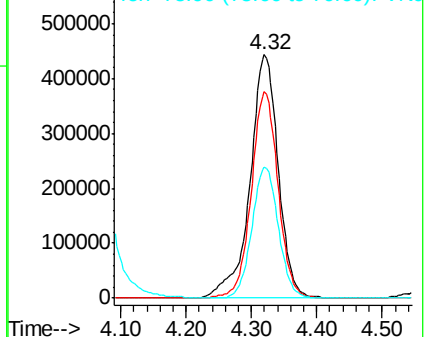
76 50.0 29.8 44.8#

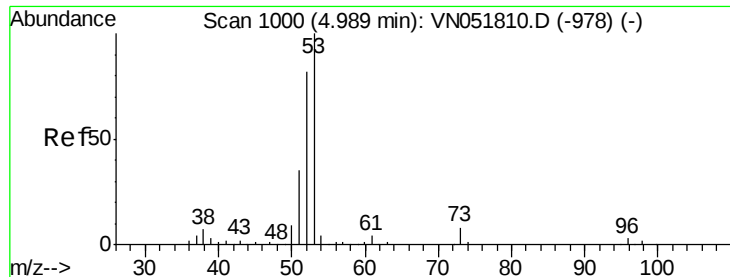


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 796.33 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 53 Resp: 1813336

Ion Ratio Lower Upper

53 100

52 82.4 65.9 98.9

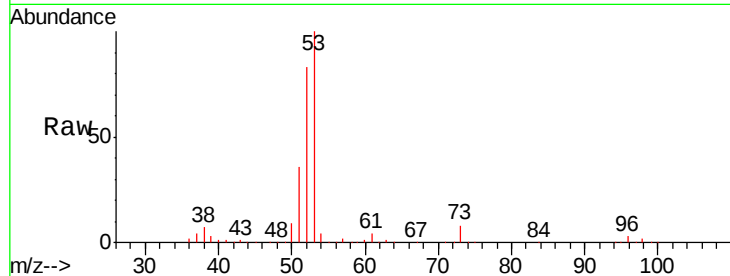
51 37.2 28.6 43.0

Manual Integrations

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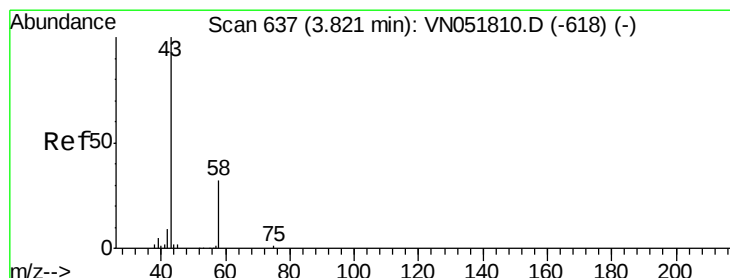
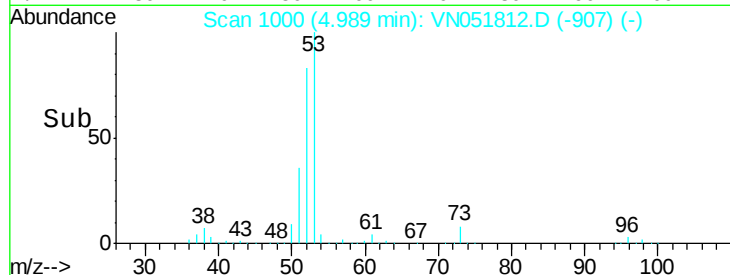
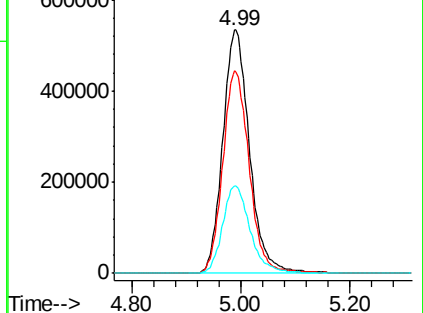
10/15/2018 3:00:15 PM



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 637.09 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN051812.D

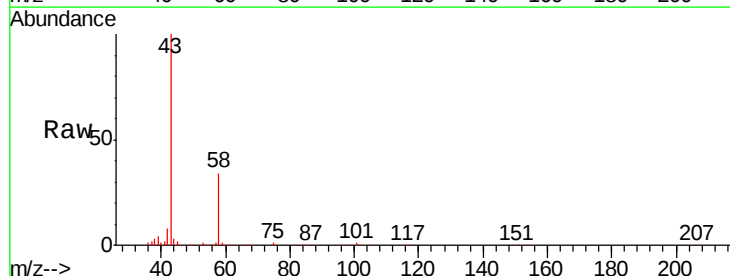
Acq: 11 Oct 2018 12:46

Tgt Ion: 43 Resp: 1354375

Ion Ratio Lower Upper

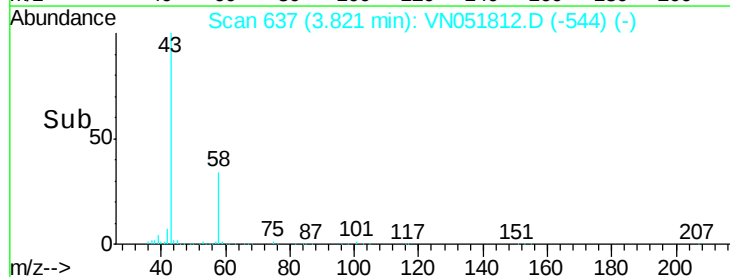
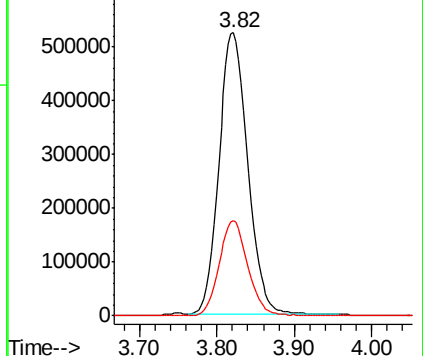
43 100

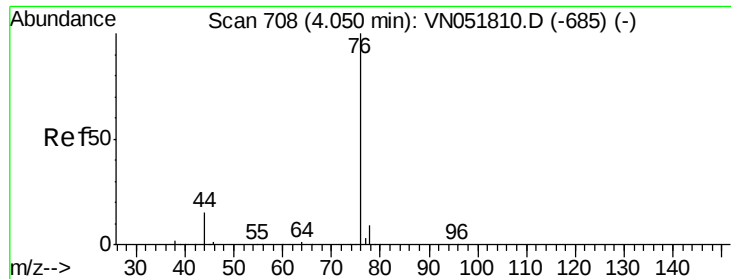
58 33.8 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 154.34 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 3000656

Ion Ratio Lower Upper

76 100

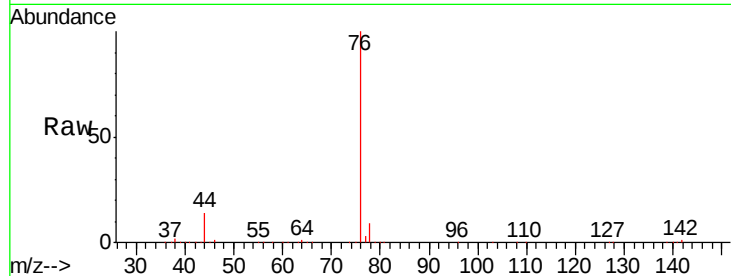
78 9.4 7.3 10.9

Manual Integrations

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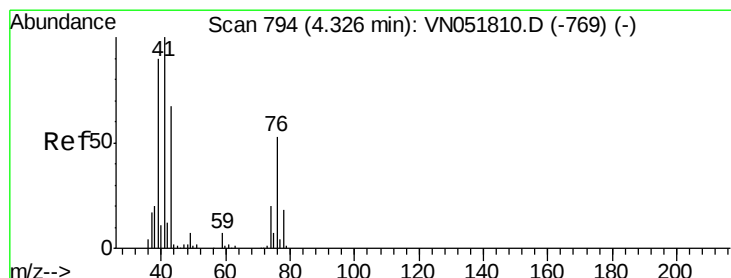
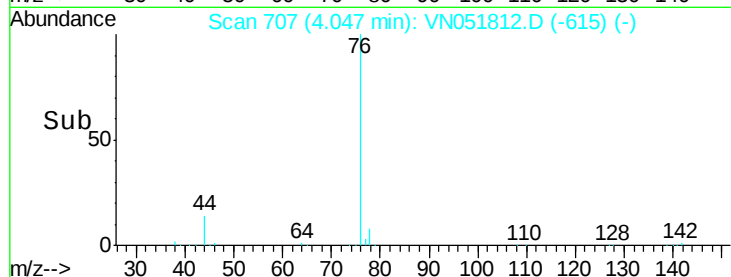
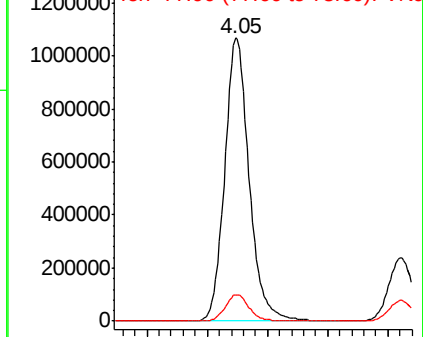
MMDadoda

10/15/2018 3:00:15 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 133.17 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051812.D

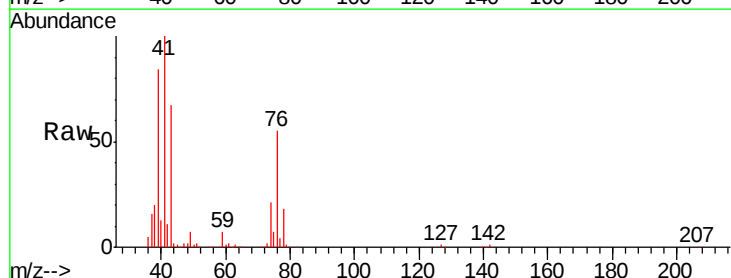
Acq: 11 Oct 2018 12:46

Tgt Ion: 43 Resp: 803119

Ion Ratio Lower Upper

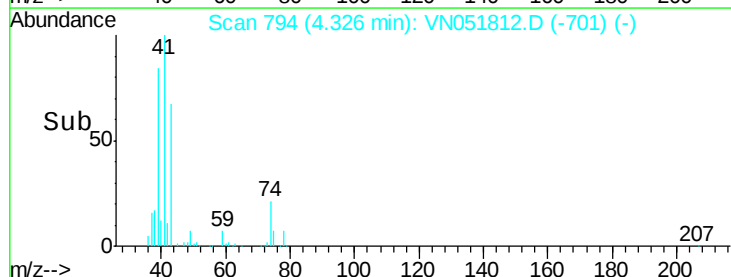
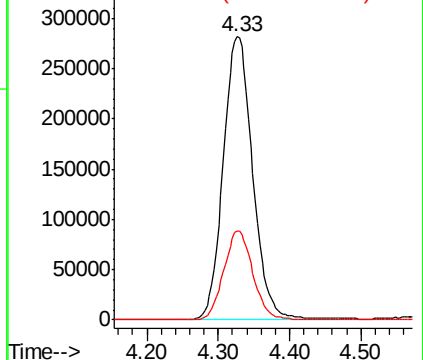
43 100

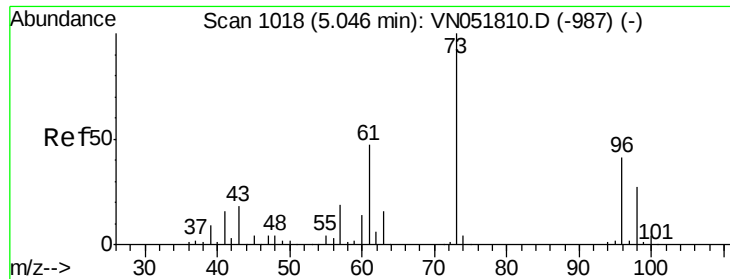
74 31.2 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





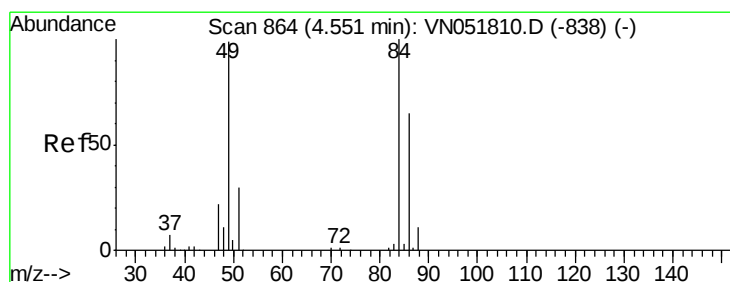
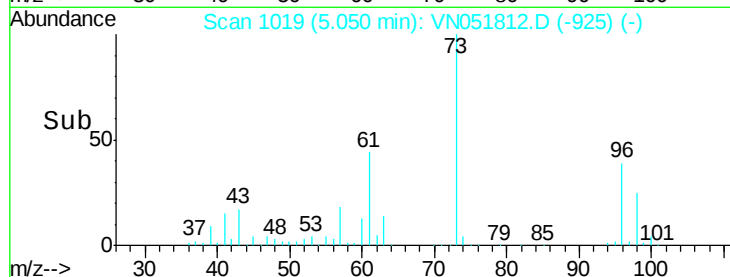
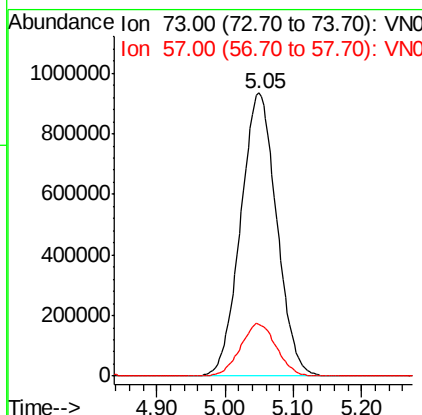
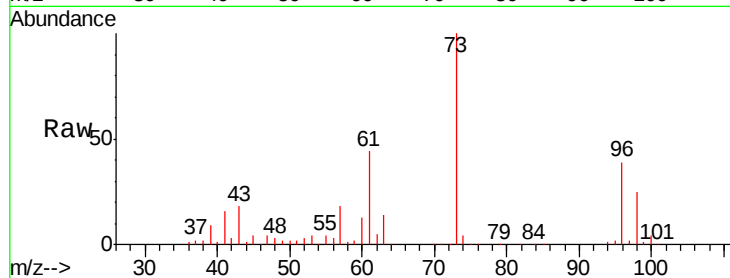
#19
Methyl tert-butyl Ether
Concen: 150.84 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 342373
Ion Ratio Lower Upper
73 100
57 18.5 17.8 26.8

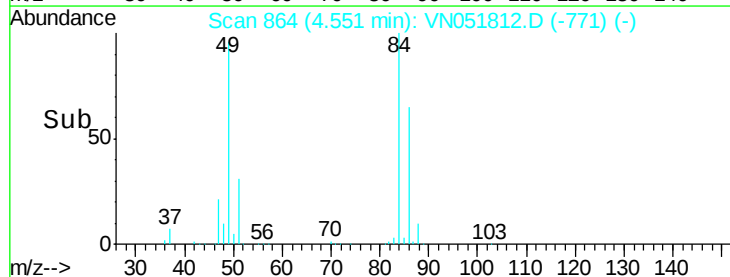
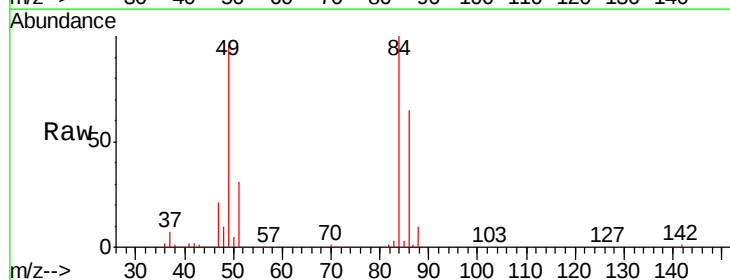
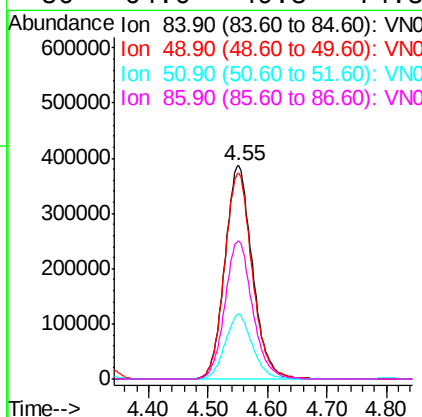
Manual Integrations
APPROVED

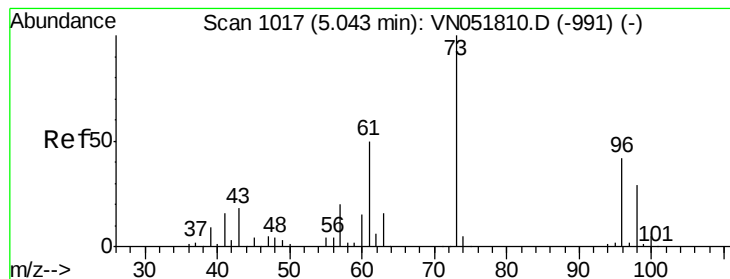
MMDadoda
10/15/2018 3:00:15 PM



#20
Methylene Chloride
Concen: 143.36 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 84 Resp: 1238734
Ion Ratio Lower Upper
84 100
49 96.2 93.2 139.8
51 30.6 29.0 43.6
86 64.6 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 152.36 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 1287658

Ion Ratio Lower Upper

96 100

61 113.1 107.4 161.0

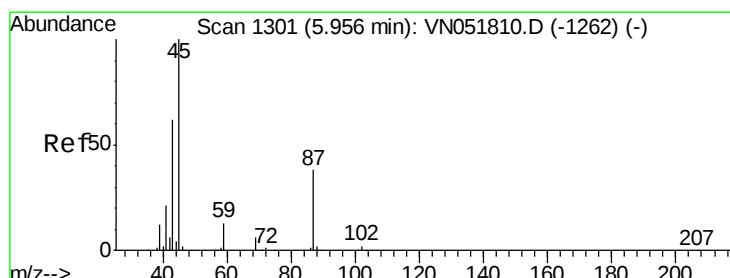
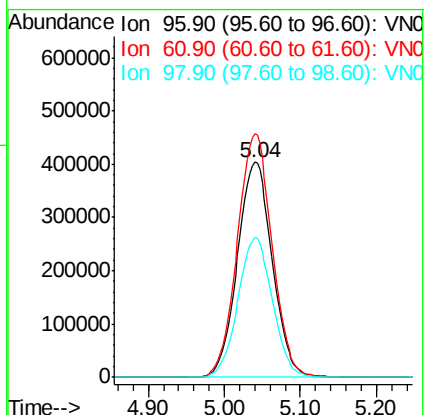
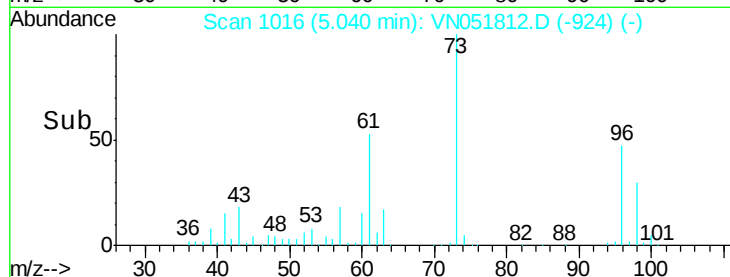
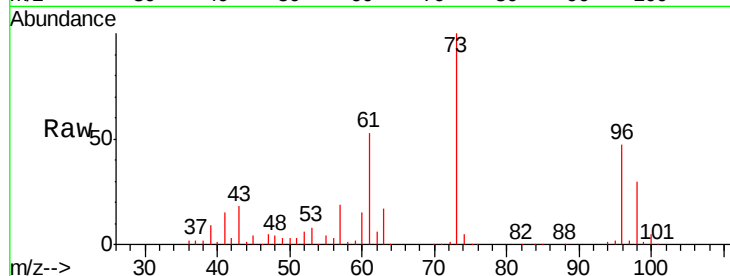
98 64.7 50.7 76.1

Manual Integrations

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MMDadoda

10/15/2018 3:00:15 PM



#22

Diisopropyl ether

Concen: 144.71 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Tgt Ion: 45 Resp: 2914686

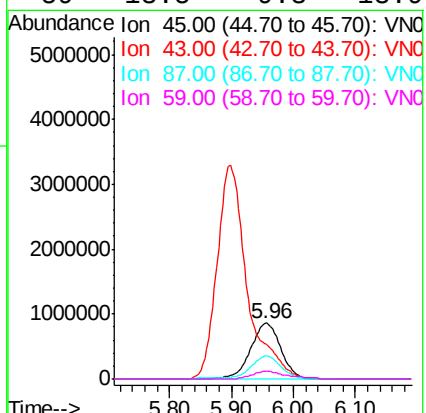
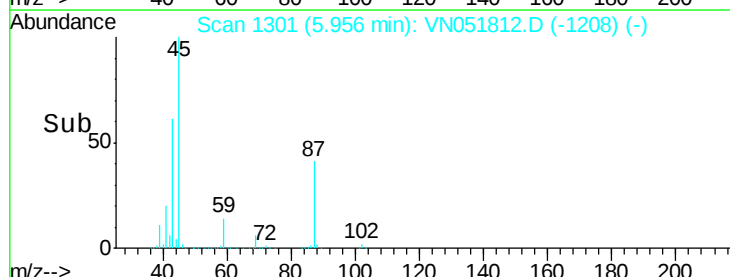
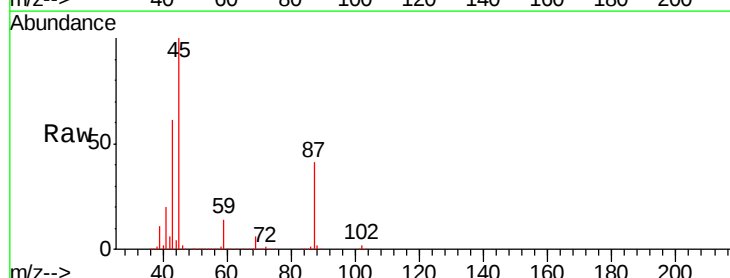
Ion Ratio Lower Upper

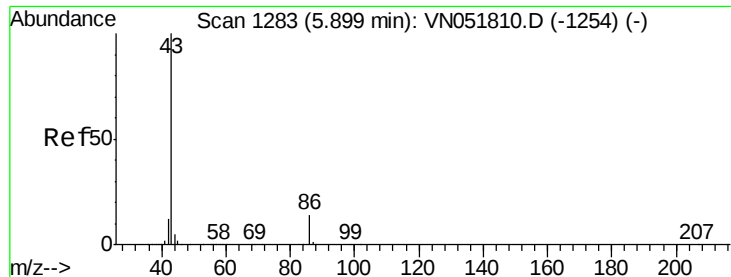
45 100

43 60.8 45.9 68.9

87 41.4 22.7 34.1#

59 13.5 9.3 13.9





#23

Vinyl Acetate

Concen: 764.59 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp:11163602

Ion Ratio Lower Upper

43 100

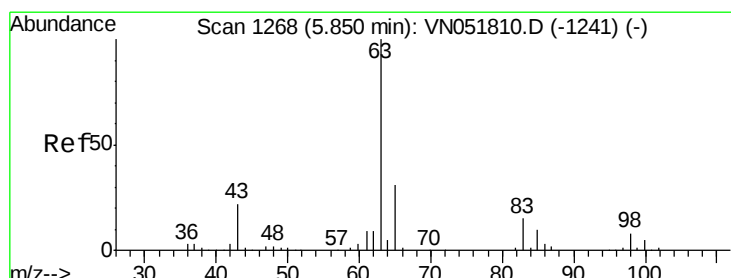
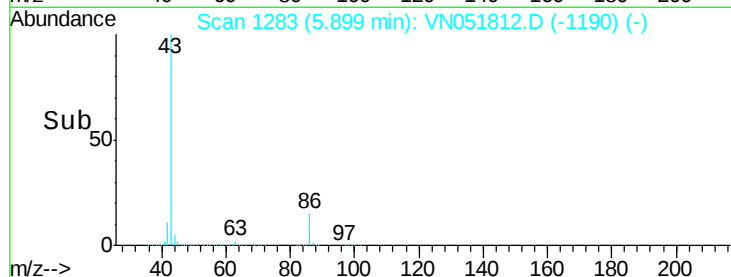
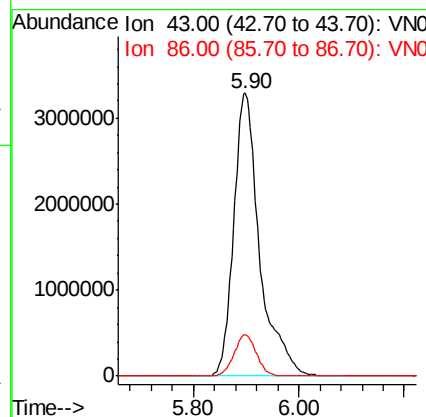
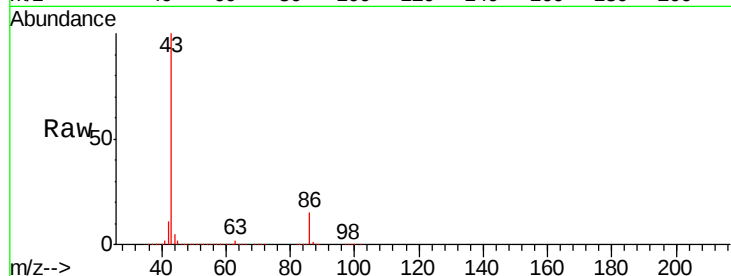
86 14.6 8.7 13.1#

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:15 PM



#24

1,1-Dichloroethane

Concen: 144.09 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

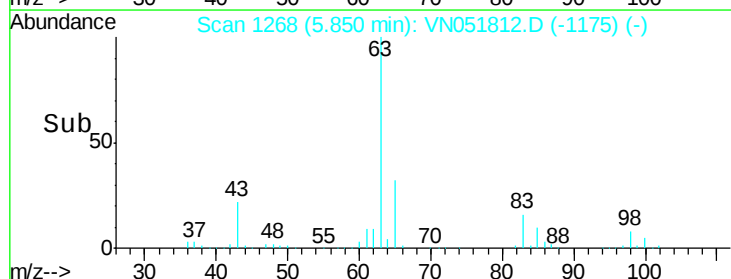
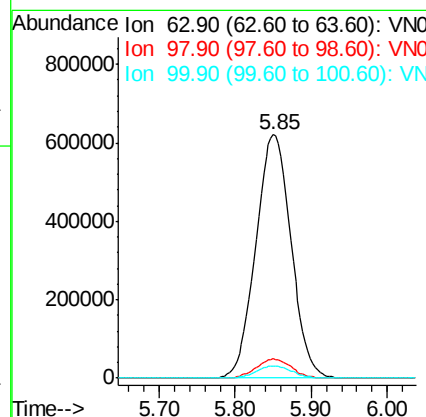
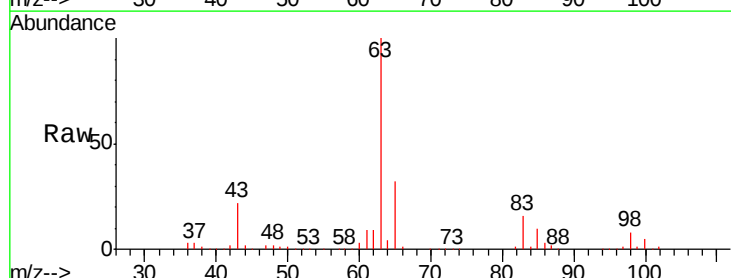
Tgt Ion: 63 Resp: 1995161

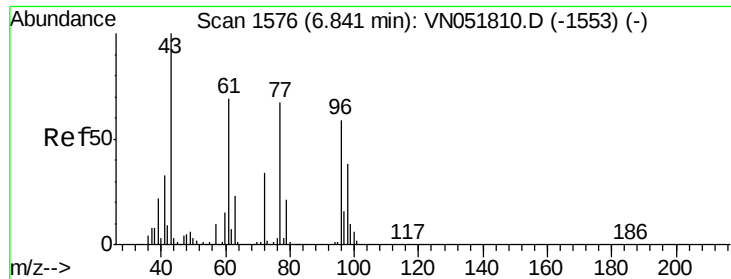
Ion Ratio Lower Upper

63 100

98 7.8 3.3 9.8

100 5.0 2.1 6.5





#25

2-Butanone

Concen: 709.59 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 2097036

Ion Ratio Lower Upper

43 100

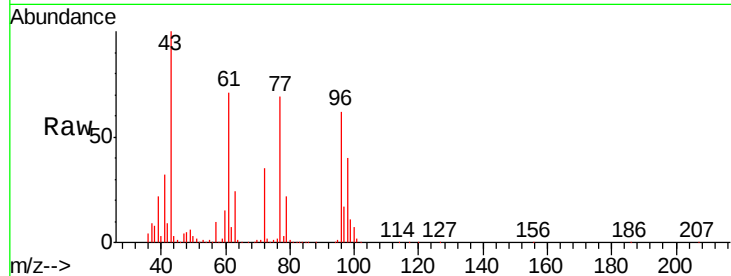
72 35.5 22.3 33.5#

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:15 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

800000

600000

400000

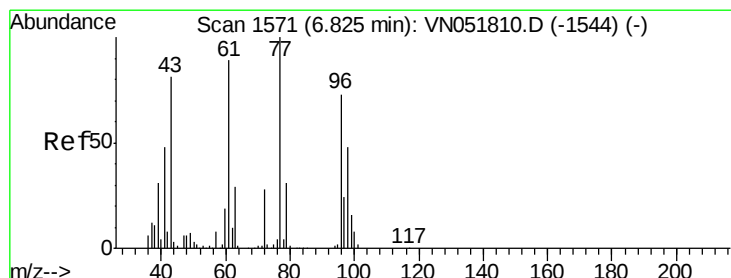
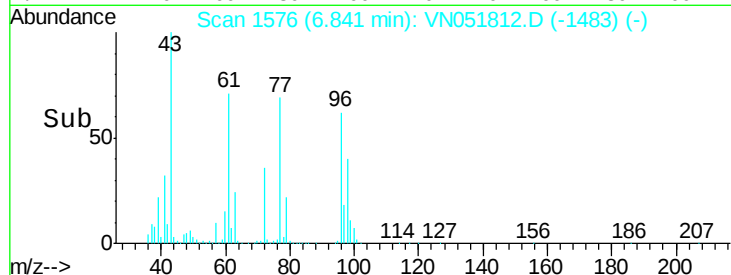
200000

0

6.70 6.75 6.80 6.85 6.90

6.84

Time-->



#26

2,2-Dichloropropane

Concen: 143.39 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051812.D

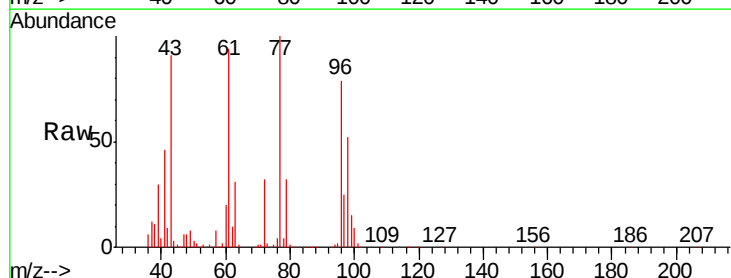
Acq: 11 Oct 2018 12:46

Tgt Ion: 77 Resp: 2011760

Ion Ratio Lower Upper

77 100

97 24.4 12.0 36.0



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

600000

400000

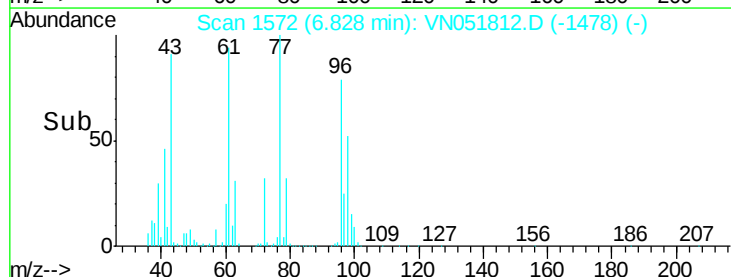
200000

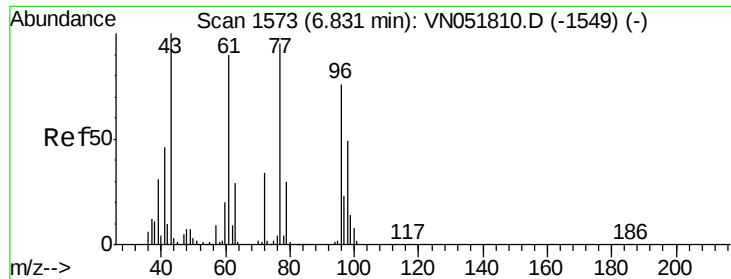
0

6.70 6.80 6.90

6.83

Time-->





#27

cis-1,2-Dichloroethene

Concen: 152.59 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 1486150

Ion Ratio Lower Upper

96 100

61 118.9 0.0 283.4

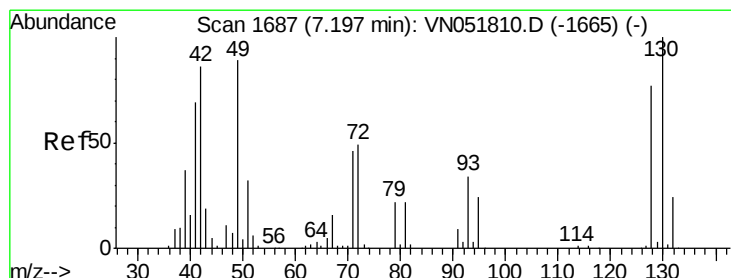
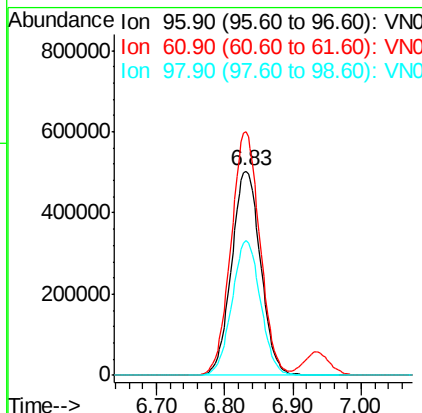
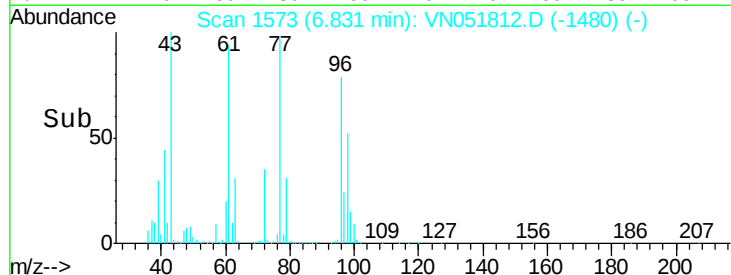
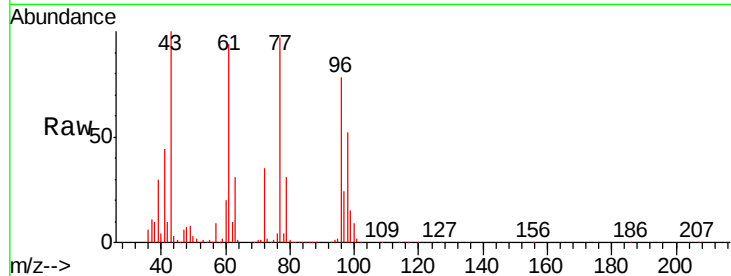
98 64.9 0.0 129.8

Manual Integrations

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MMDadoda

10/15/2018 3:00:15 PM



#28

Bromochloromethane

Concen: 141.05 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

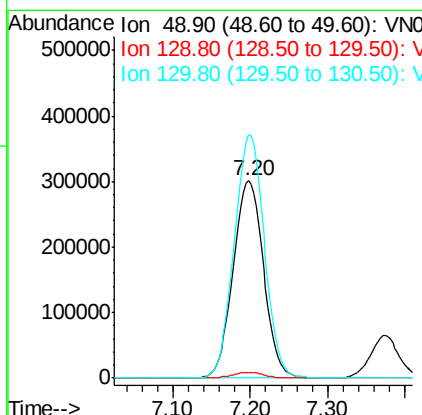
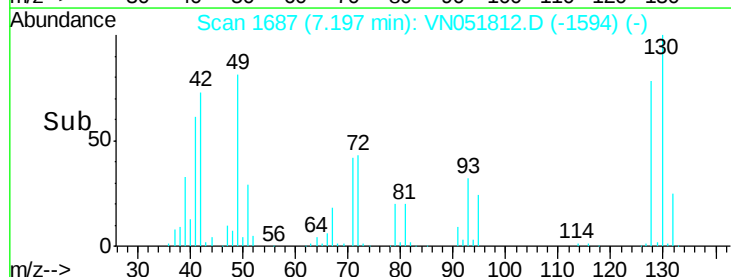
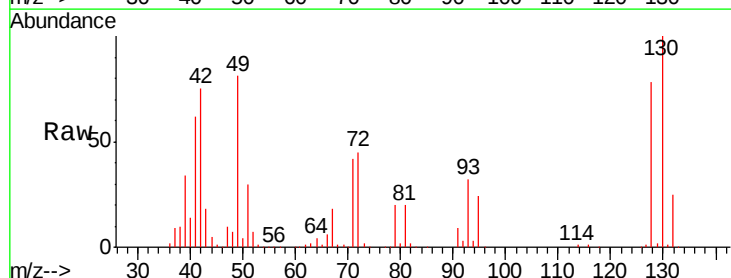
Tgt Ion: 49 Resp: 822219

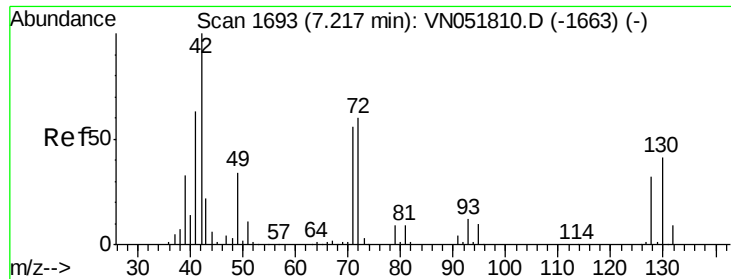
Ion Ratio Lower Upper

49 100

129 3.1 0.0 4.2

130 122.4 67.1 100.7#





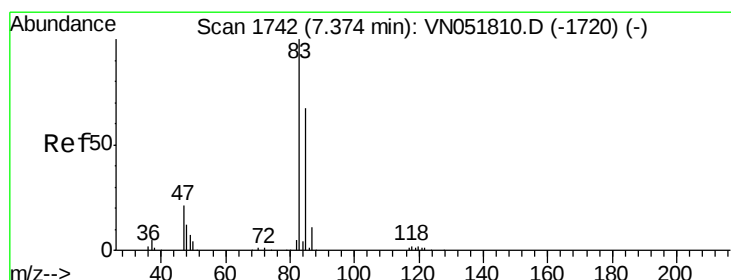
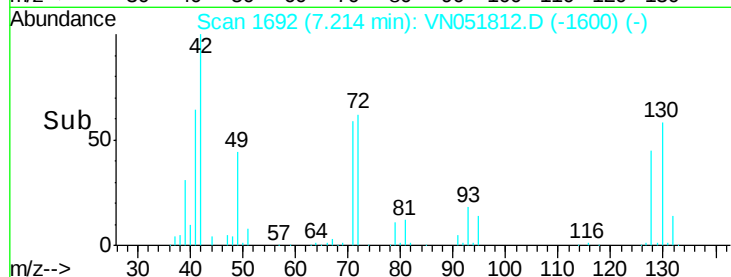
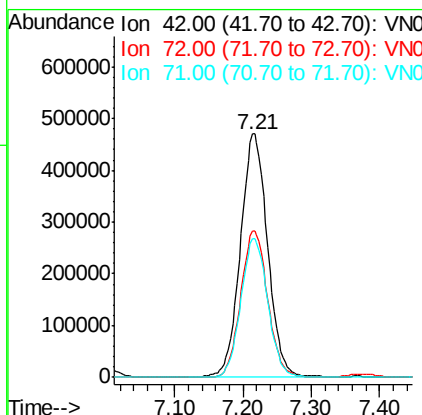
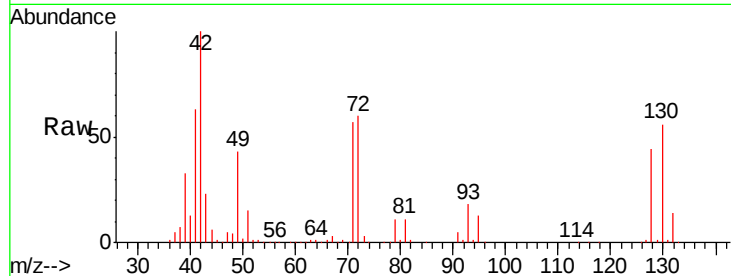
#29
Tetrahydrofuran
Concen: 742.62 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 42 Resp: 1298226
Ion Ratio Lower Upper
42 100
72 59.7 35.5 53.3#
71 56.5 33.7 50.5#

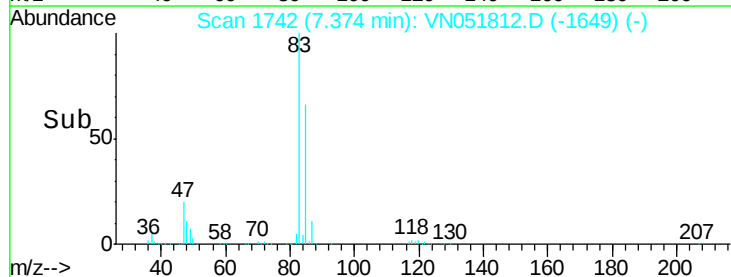
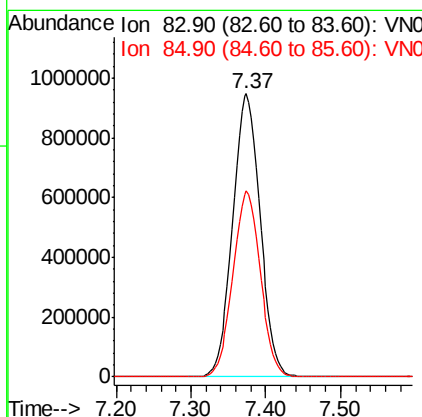
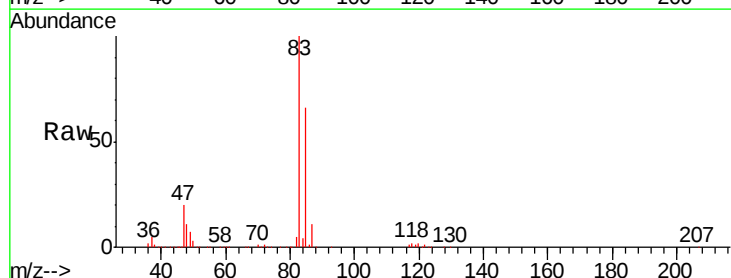
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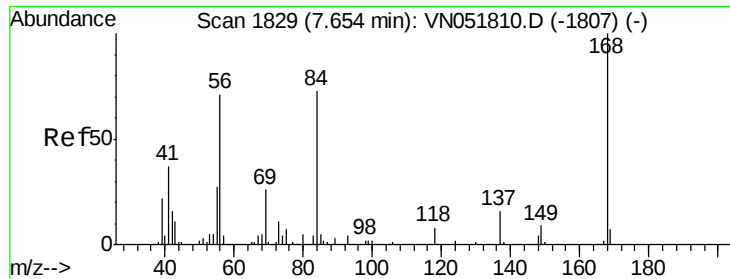
MMDadoda
10/15/2018 3:00:15 PM



#30
Chloroform
Concen: 147.08 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 83 Resp: 2426929
Ion Ratio Lower Upper
83 100
85 65.6 52.2 78.4





#31

Cyclohexane

Concen: 120.46 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 1653780

Ion Ratio Lower Upper

56 100

69 35.6 26.2 39.4

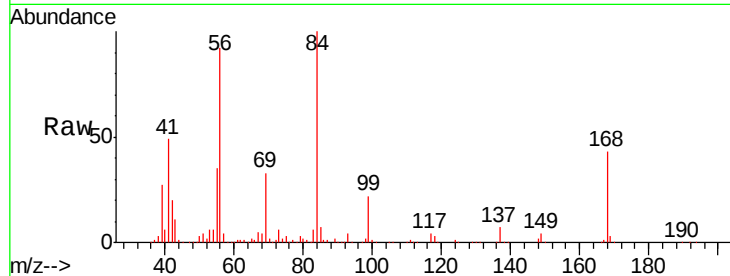
84 106.5 68.3 102.5#

Manual Integrations

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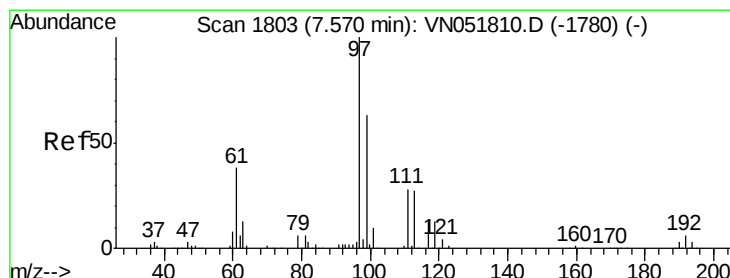
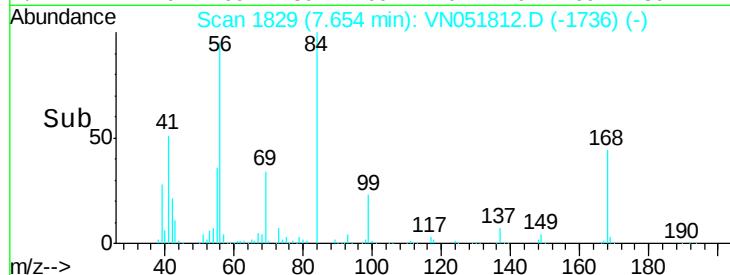
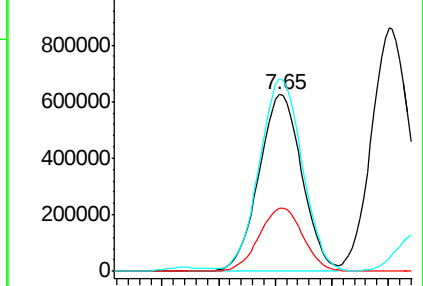
10/15/2018 3:00:15 PM



Abundance Ion 56.00 (55.70 to 56.70): VN051812.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN051812.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN051812.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 151.49 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

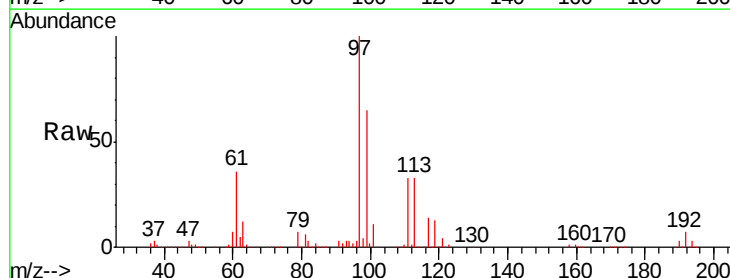
Tgt Ion: 97 Resp: 2335395

Ion Ratio Lower Upper

97 100

99 65.2 51.8 77.6

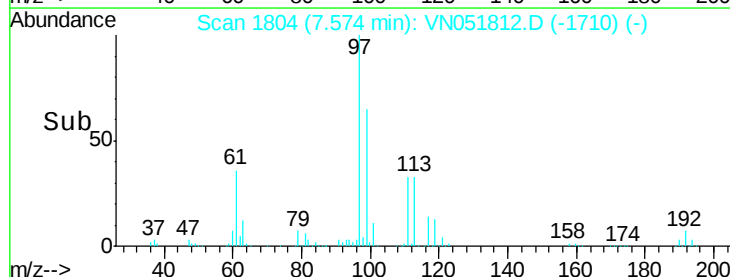
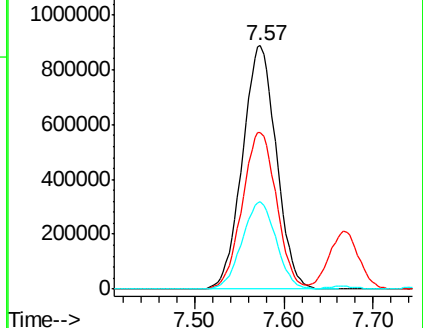
61 36.2 34.9 52.3

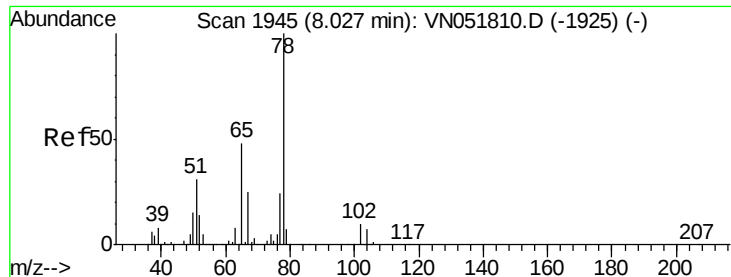


Abundance Ion 96.90 (96.60 to 97.60): VN051812.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN051812.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN051812.D (-1710) (-)





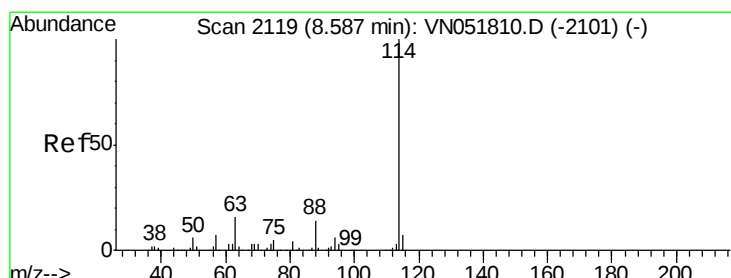
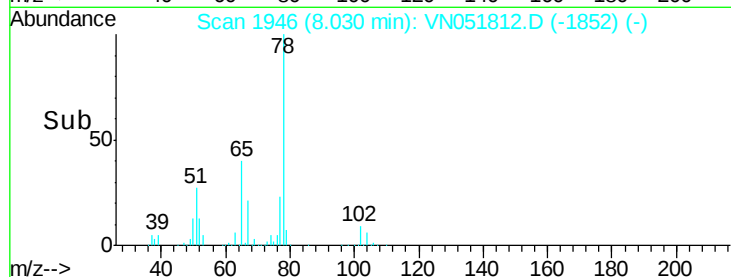
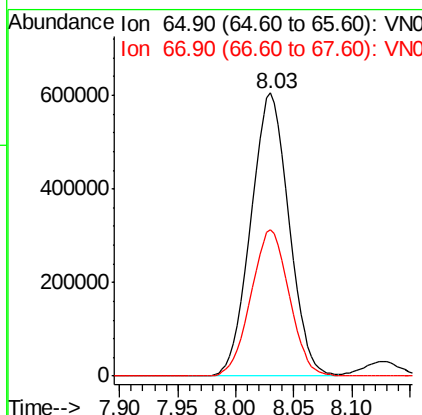
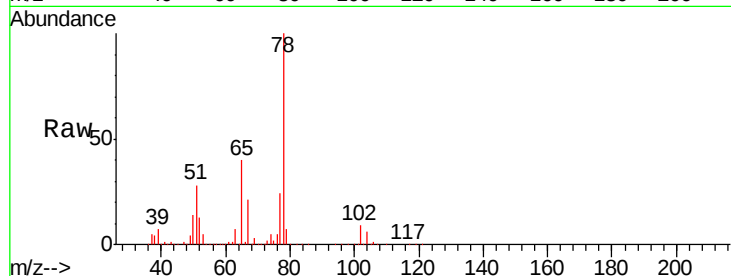
#33
 1,2-Dichloroethane-d4
 Concen: 151.49 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 65 Resp: 1384650
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 110.4

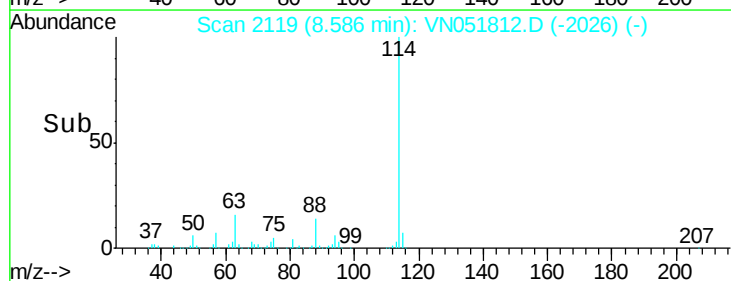
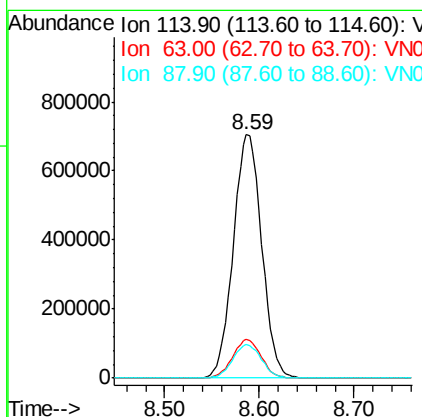
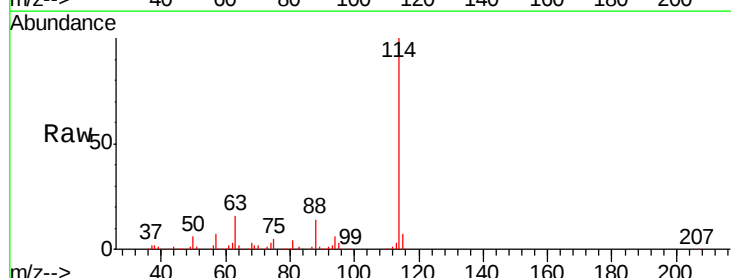
Manual Integrations
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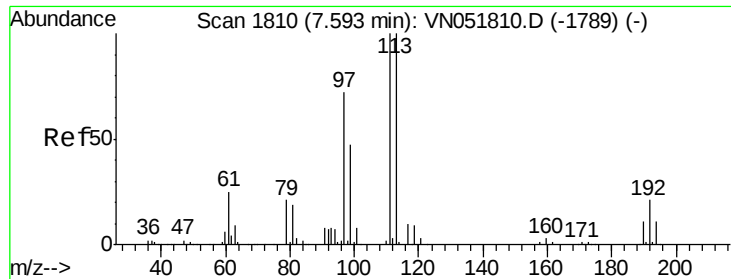
MMDadoda
 10/15/2018 3:00:15 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion: 114 Resp: 1471358
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 38.6
 88 13.9 0.0 30.6





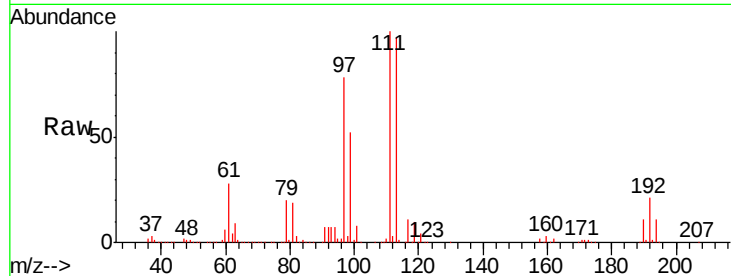
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

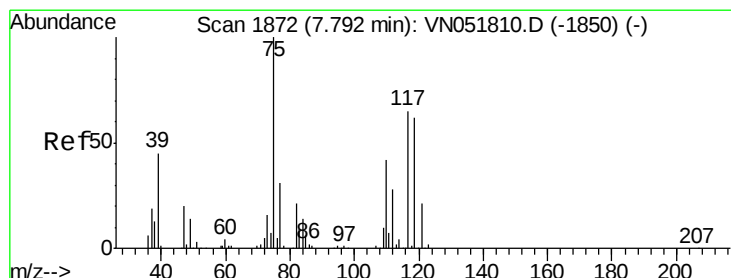
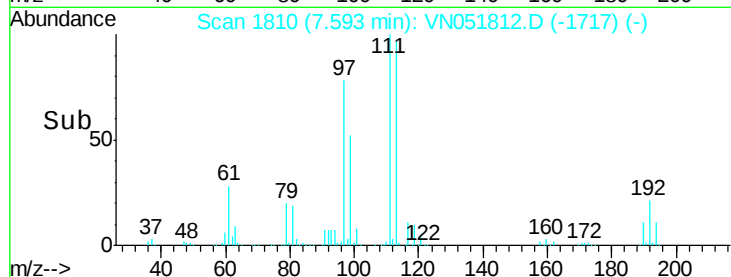
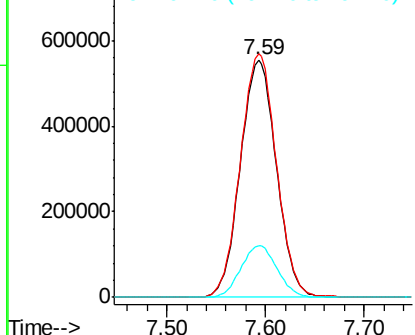
Tgt Ion: 113 Resp: 1398342
Ion Ratio Lower Upper
113 100
111 103.1 82.6 123.8
192 21.9 18.0 27.0

Manual Integrations
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10/15/2018 3:00:15 PM

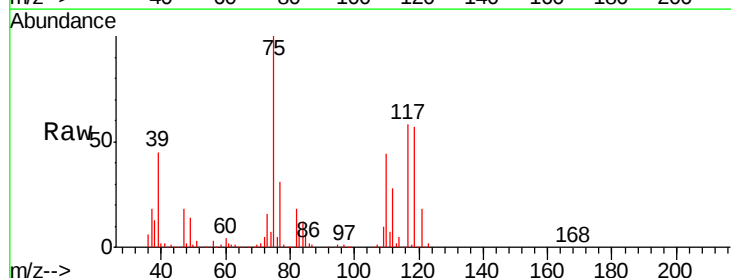


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

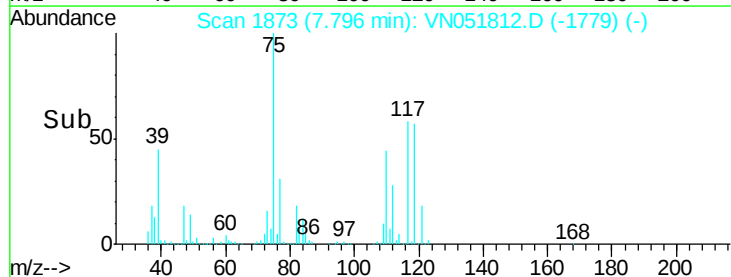
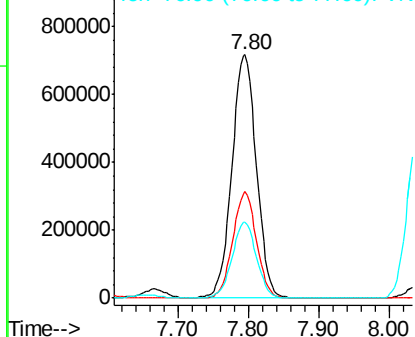


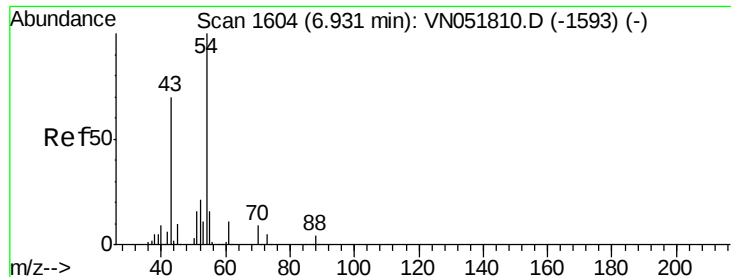
#36
1,1-Dichloropropene
Concen: 144.95 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 75 Resp: 1736328
Ion Ratio Lower Upper
75 100
110 42.4 18.1 54.4
77 31.1 24.8 37.2



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





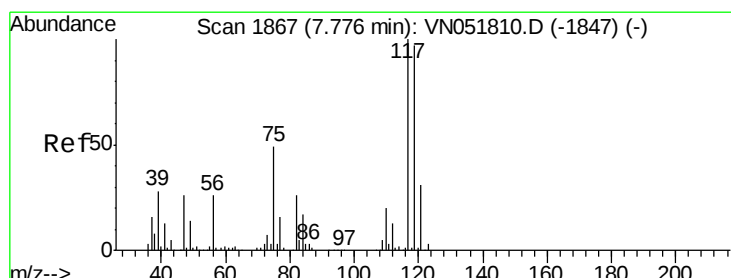
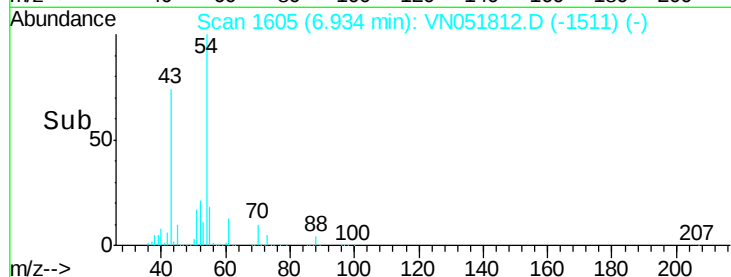
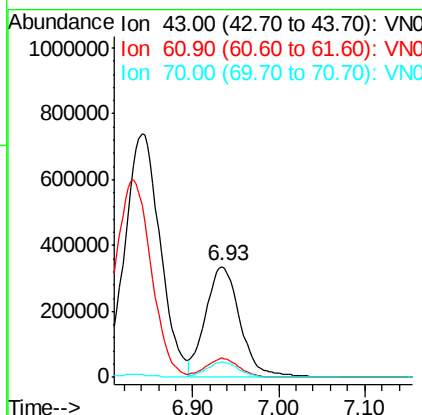
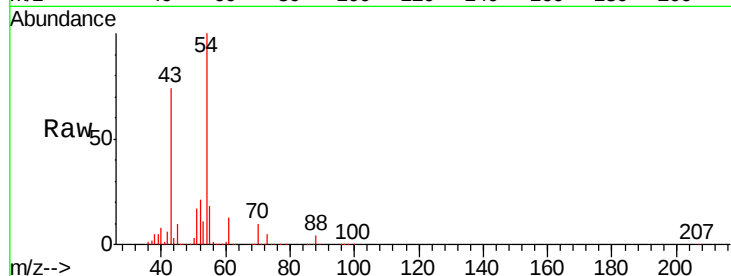
#37
Ethyl Acetate
Concen: 152.76 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.4	12.0	18.0
70	13.0	8.6	13.0

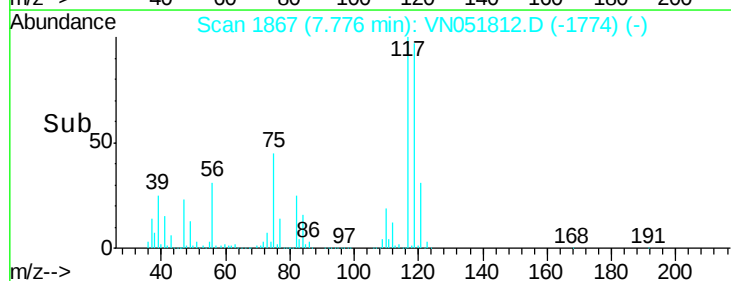
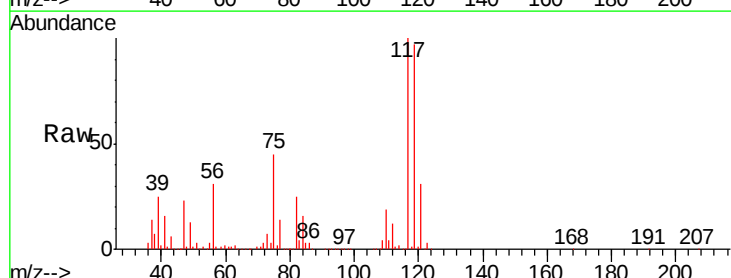
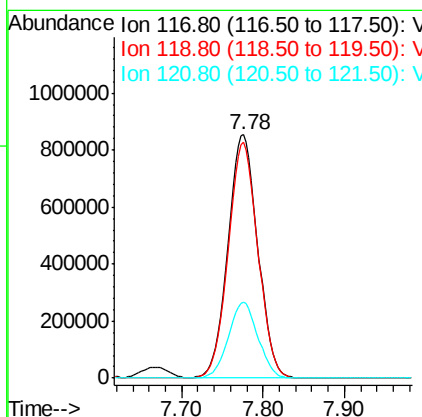
Manual Integrations
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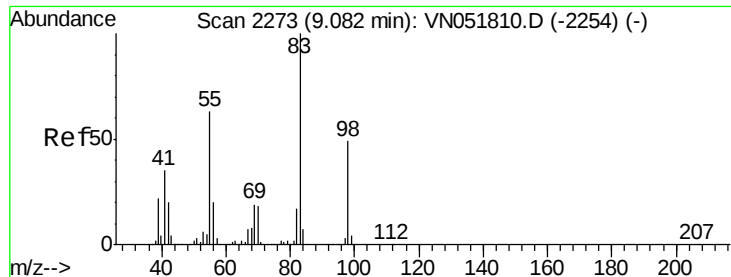
MMDadoda
10/15/2018 3:00:15 PM



#38
Carbon Tetrachloride
Concen: 159.13 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.3	114.5
121	31.3	24.6	36.8





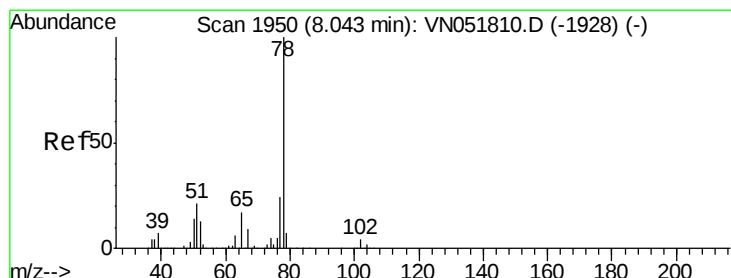
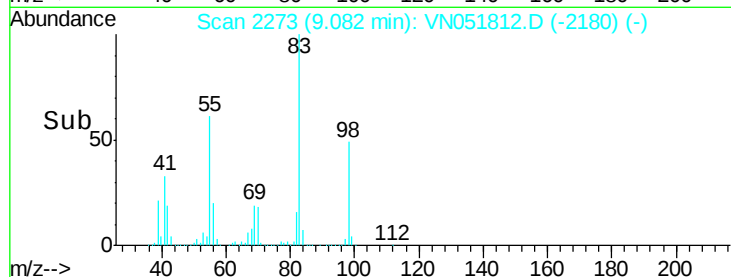
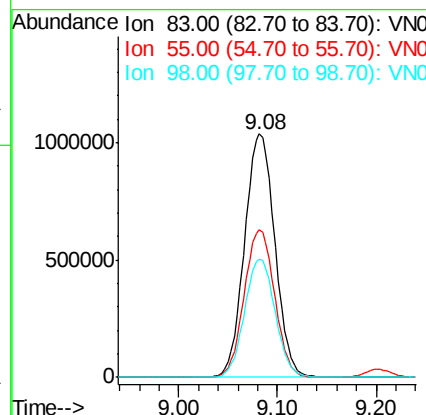
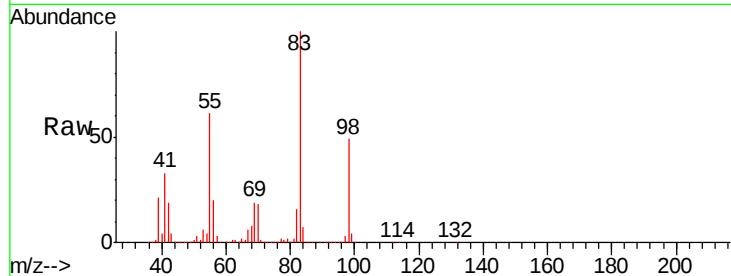
#39
Methylcyclohexane
Concen: 150.77 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
83	100		
55	60.7	61.0	91.4#
98	48.6	37.5	56.3

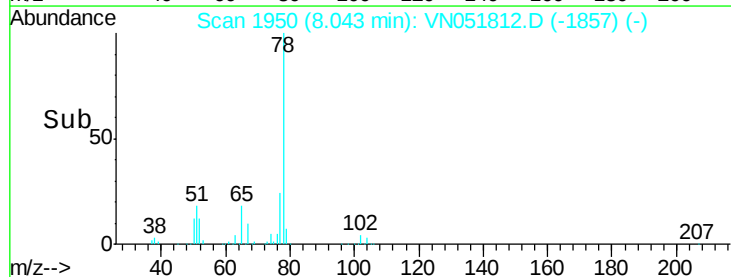
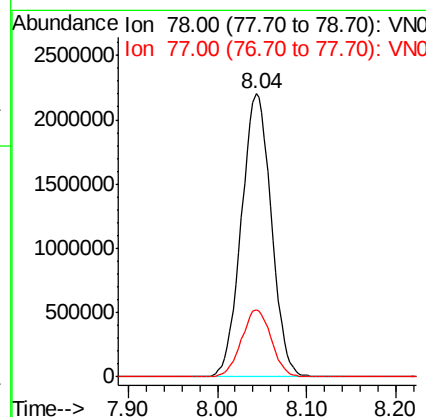
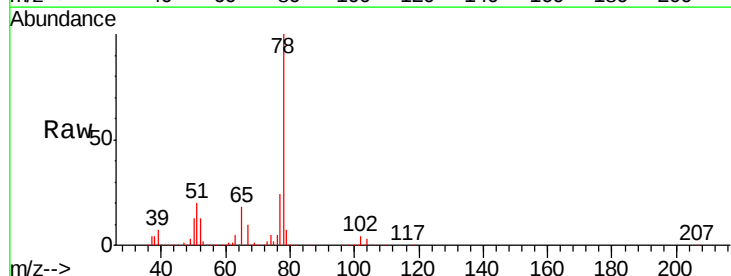
Manual Integrations
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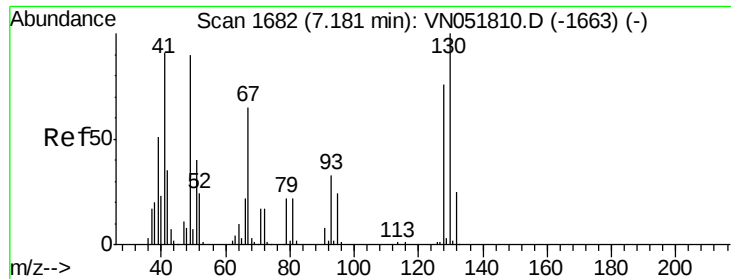
MMDadoda
10/15/2018 3:00:15 PM



#40
Benzene
Concen: 149.48 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





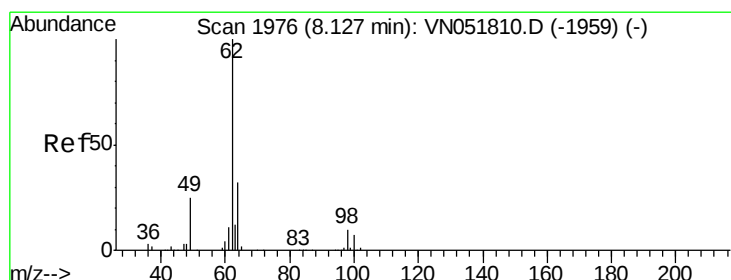
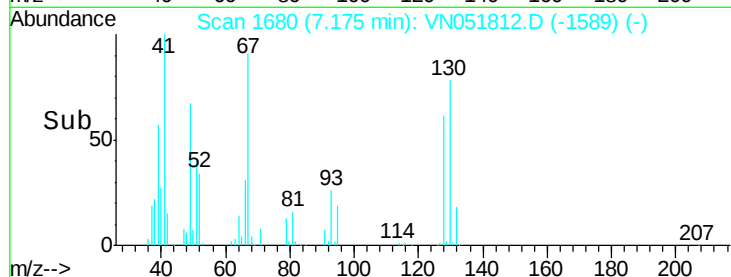
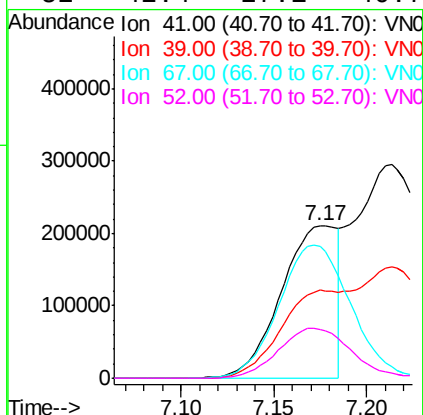
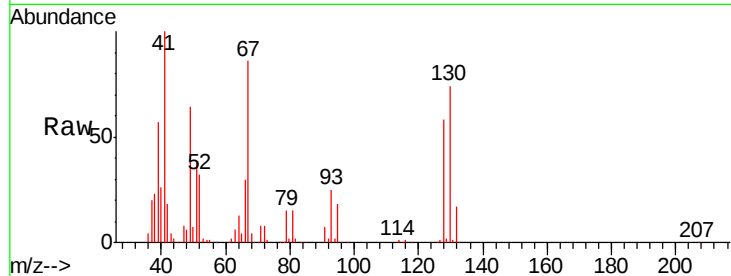
#41
Methacrylonitrile
Concen: 150.06 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 41 Resp: 442402
Ion Ratio Lower Upper
41 100
39 57.9 45.4 68.0
67 112.4 70.6 106.0#
52 42.4 27.1 40.7#

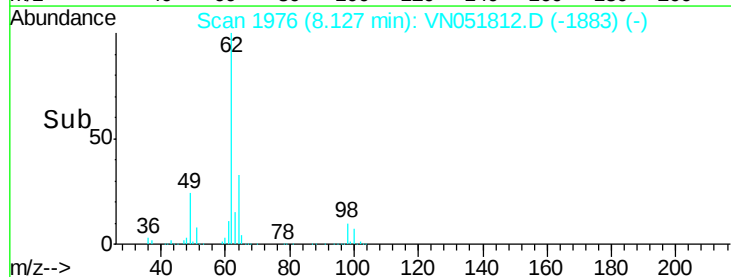
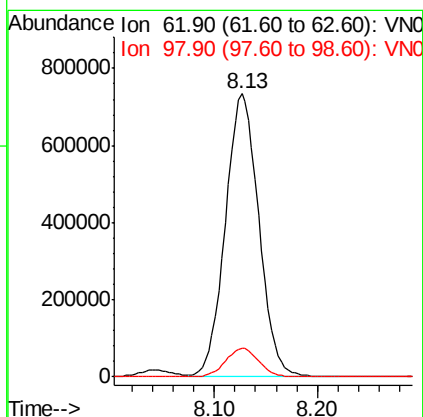
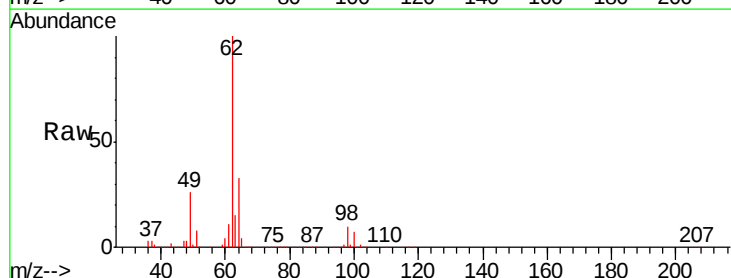
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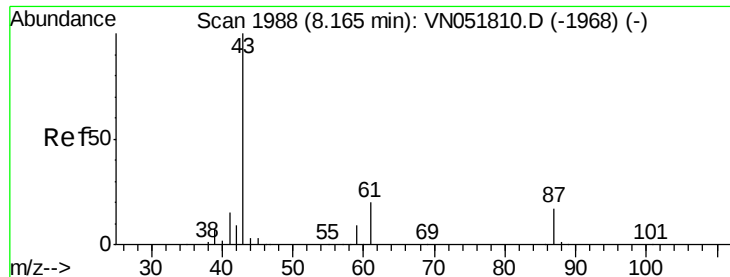
MMDadoda
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#42
1,2-Dichloroethane
Concen: 146.28 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 62 Resp: 1654636
Ion Ratio Lower Upper
62 100
98 10.2 0.0 19.6





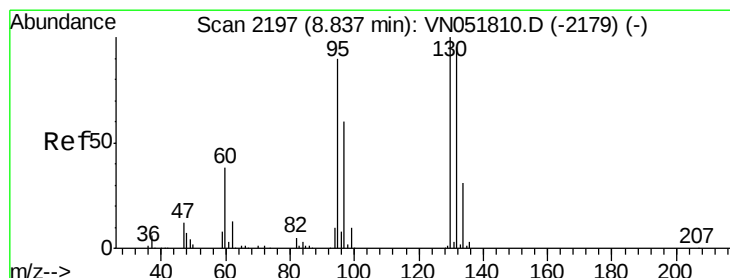
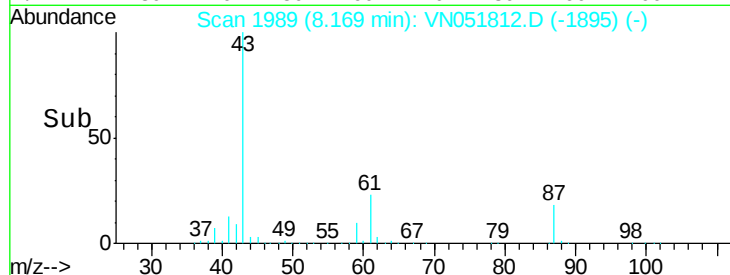
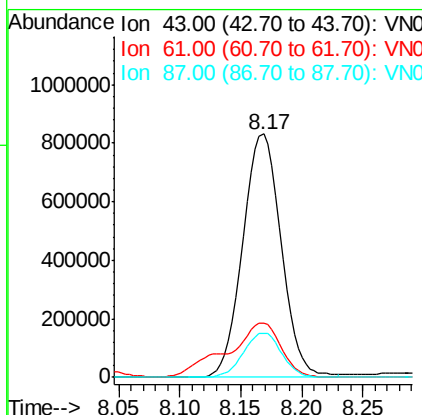
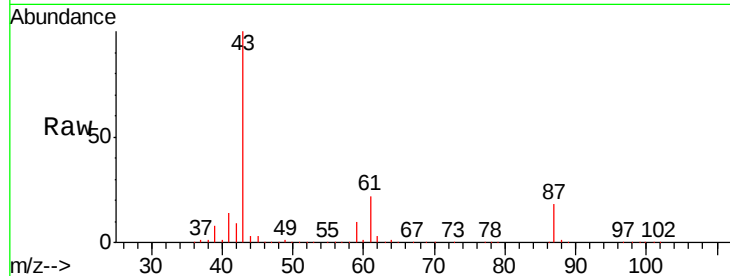
#43
Isopropyl Acetate
Concen: 146.19 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 1810730
Ion Ratio Lower Upper
43 100
61 31.3 17.5 26.3#
87 18.1 11.3 16.9#

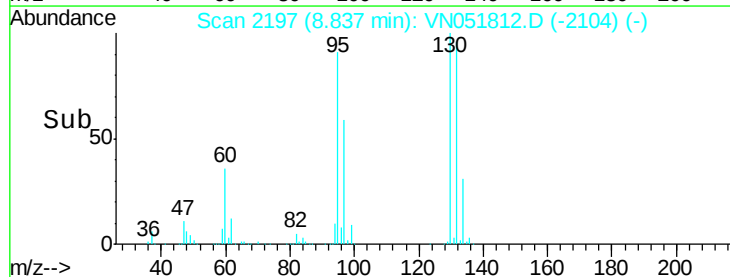
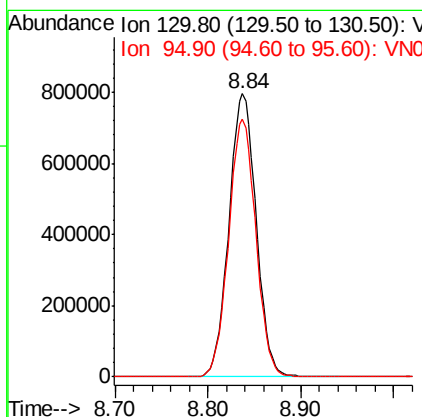
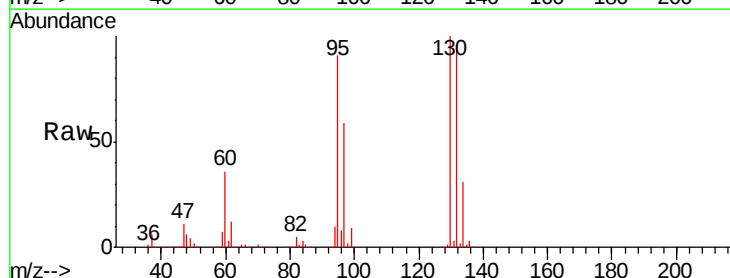
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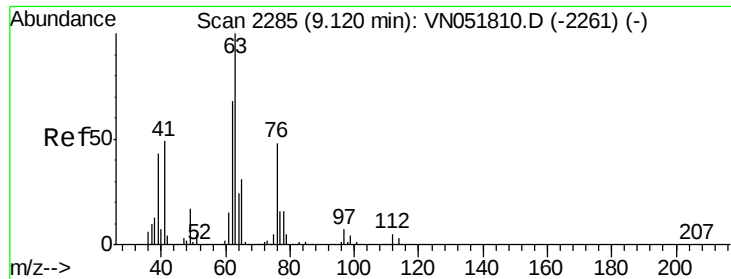
MMDadoda
10/15/2018 3:00:15 PM



#44
Trichloroethene
Concen: 156.11 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 130 Resp: 1622045
Ion Ratio Lower Upper
130 100
95 91.1 0.0 193.0





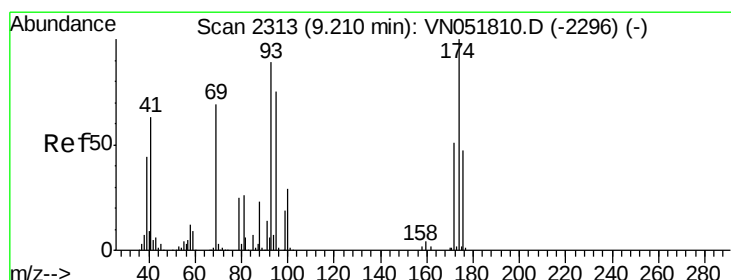
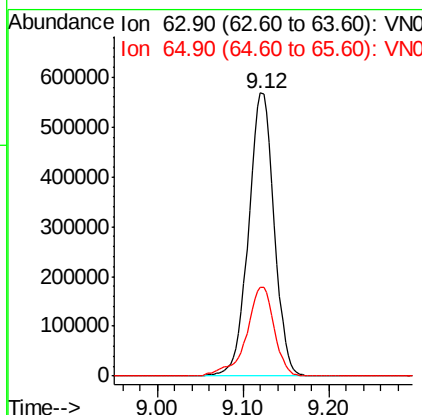
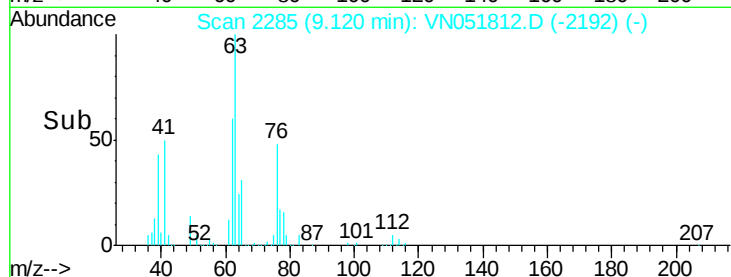
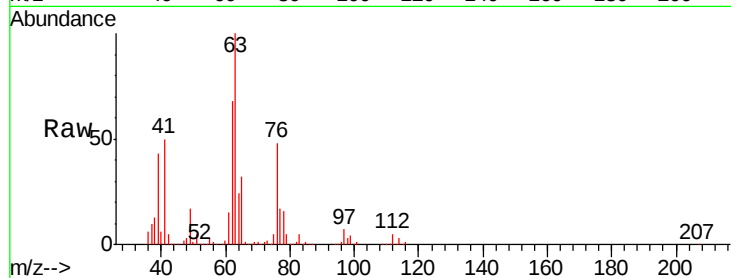
#45
 1,2-Dichloropropane
 Concen: 144.74 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 63 Resp: 1176292
 Ion Ratio Lower Upper
 63 100
 65 31.5 25.0 37.6

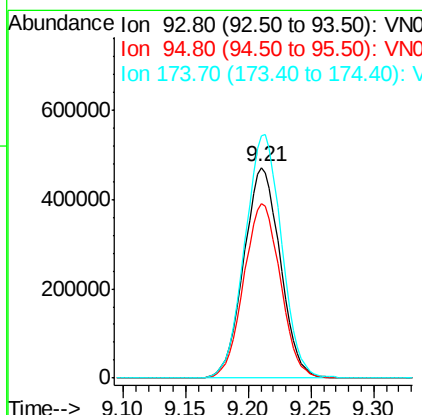
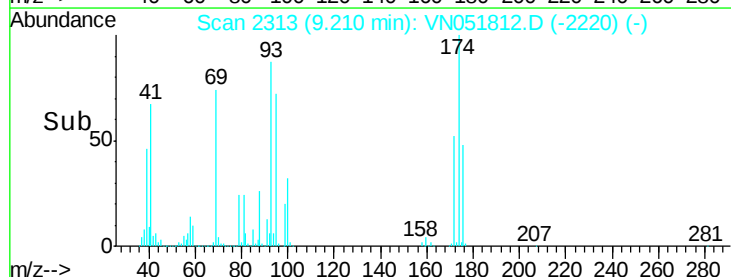
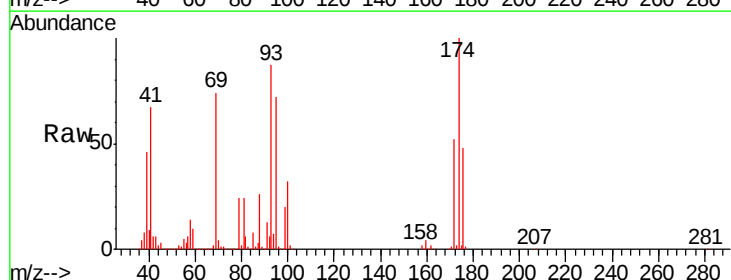
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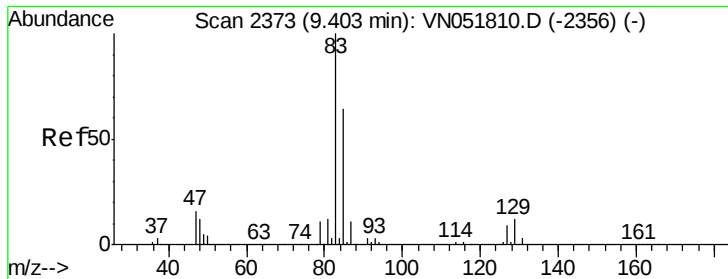
MMDadoda
 10/15/2018 3:00:15 PM



#46
 Dibromomethane
 Concen: 155.47 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion: 93 Resp: 958137
 Ion Ratio Lower Upper
 93 100
 95 83.5 66.7 100.1
 174 116.4 89.8 134.6





#47

Bromodichloromethane

Concen: 159.77 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 1957994

Ion Ratio Lower Upper

83 100

85 64.0 52.6 78.8

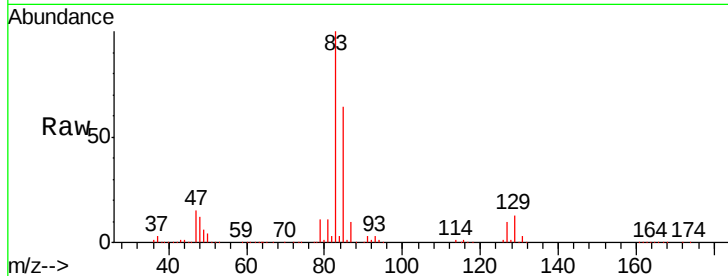
127 9.9 7.2 10.8

Manual Integrations

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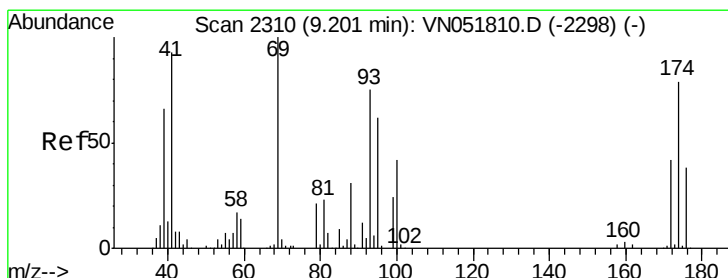
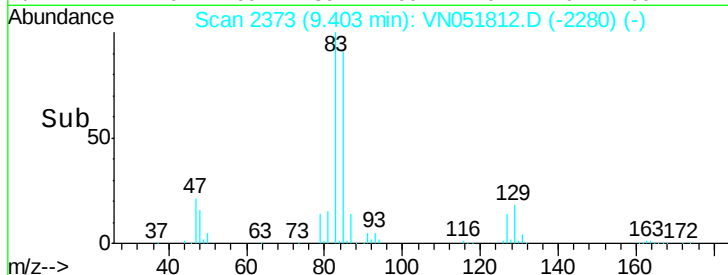
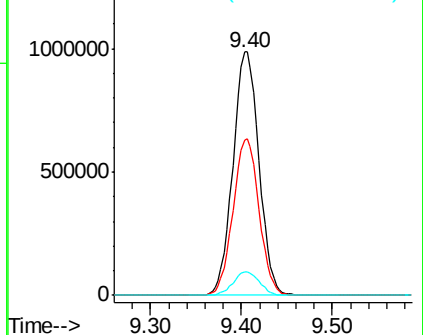
10/15/2018 3:00:15 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 155.09 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

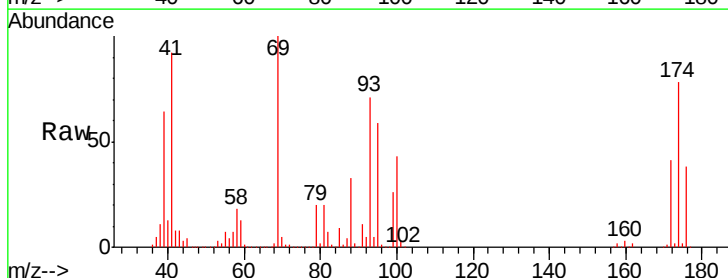
Tgt Ion: 41 Resp: 840199

Ion Ratio Lower Upper

41 100

69 112.2 74.7 112.1#

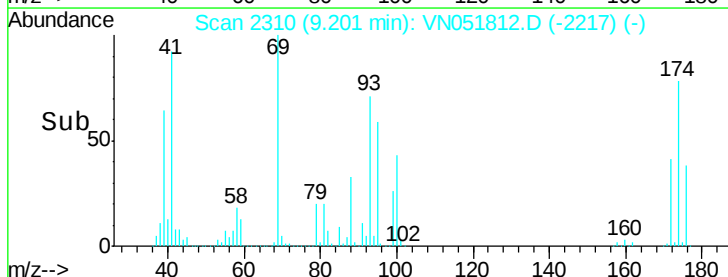
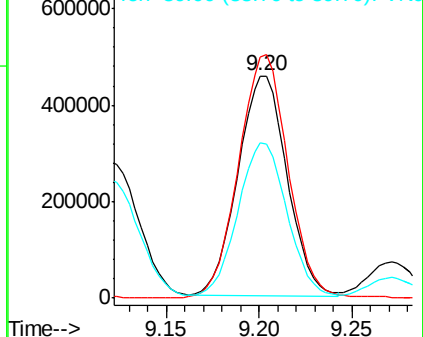
39 71.4 42.2 63.2#

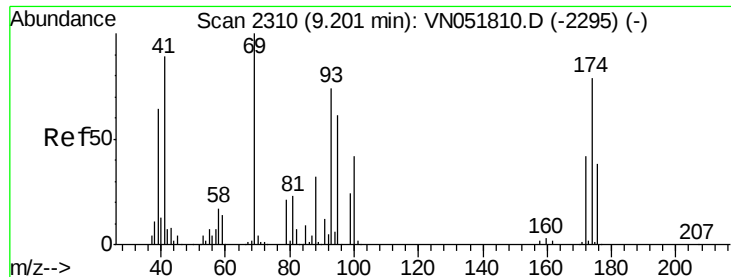


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 3701.41 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

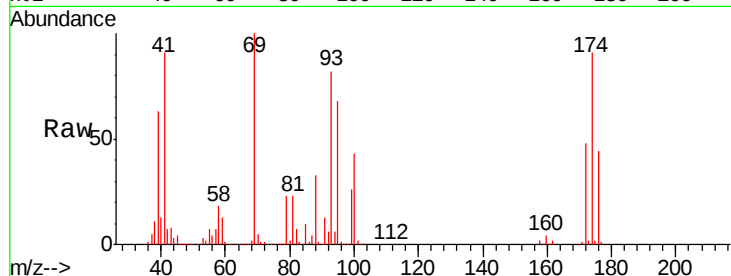
ClientSampleId :

VSTDIC150

Tgt Ion	Ratio	Lower	Upper
88	100		
43	23.8	25.9	38.9#
58	53.7	55.0	82.4#

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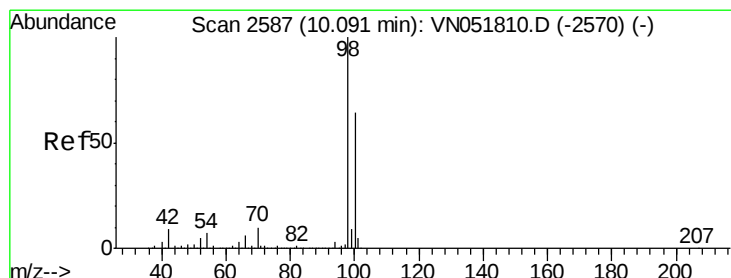
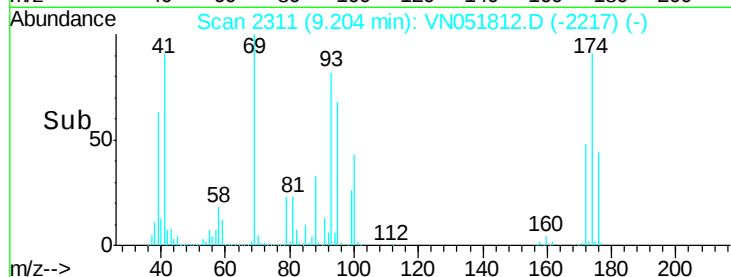
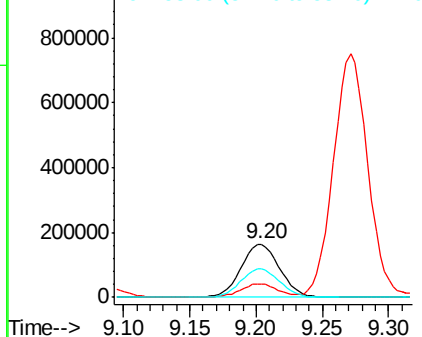


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 3701.41 ug/l

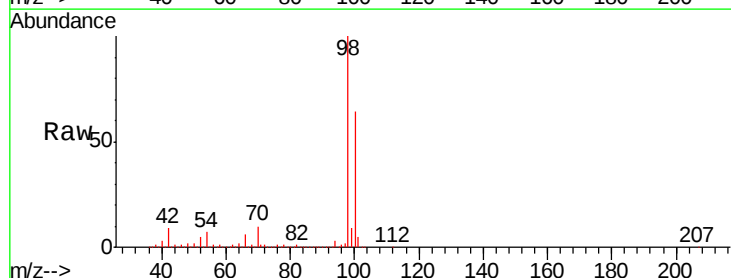
RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

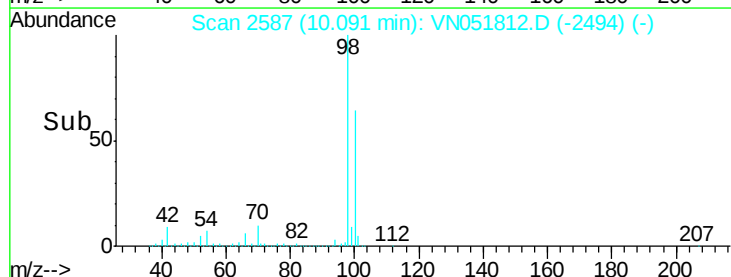
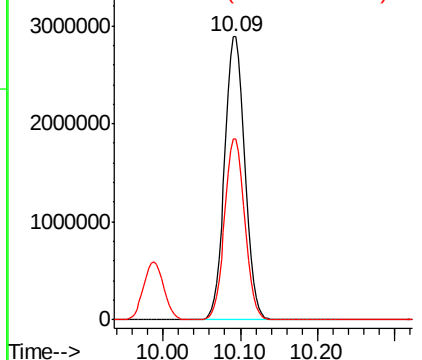
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.5	77.3

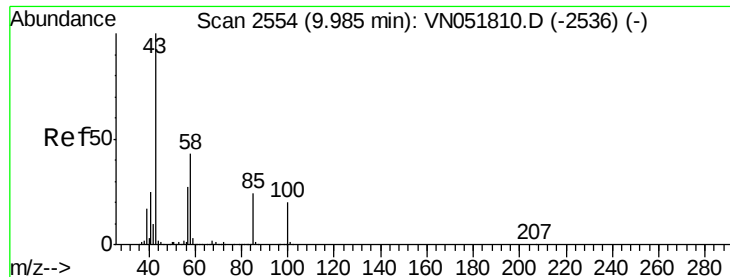


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 775.20 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 4893956

Ion Ratio Lower Upper

43 100

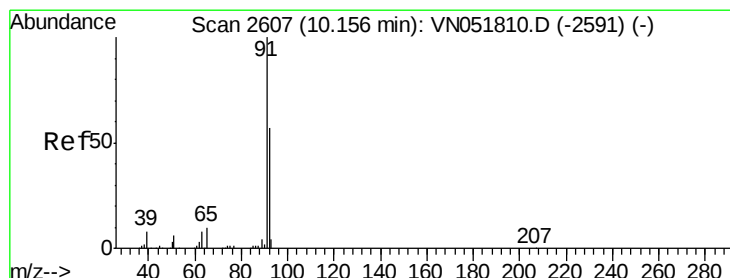
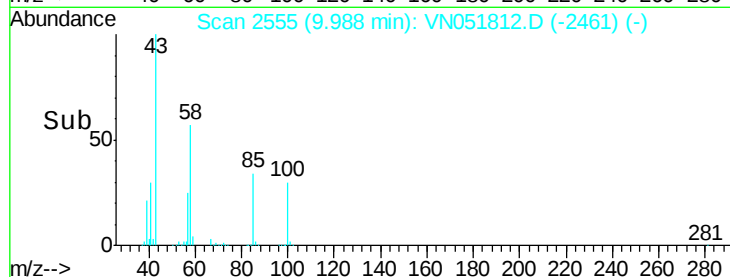
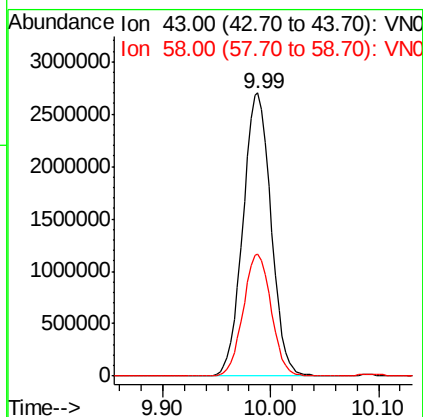
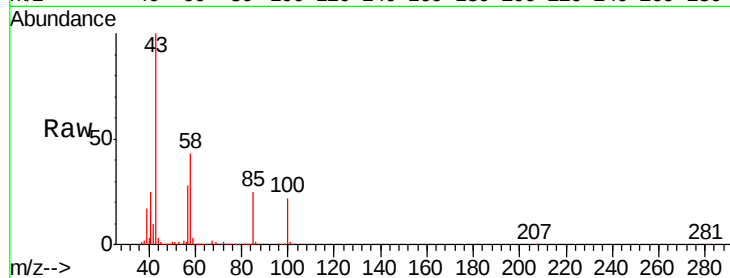
58 43.0 32.4 48.6

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#52

Toluene

Concen: 160.62 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051812.D

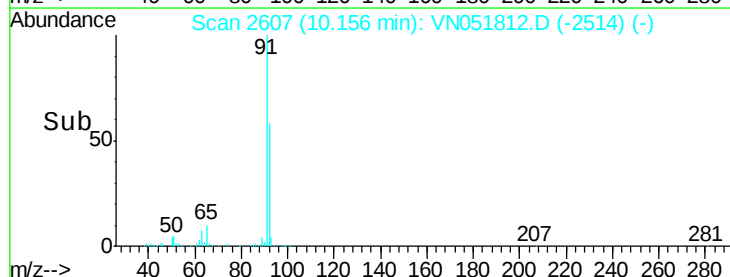
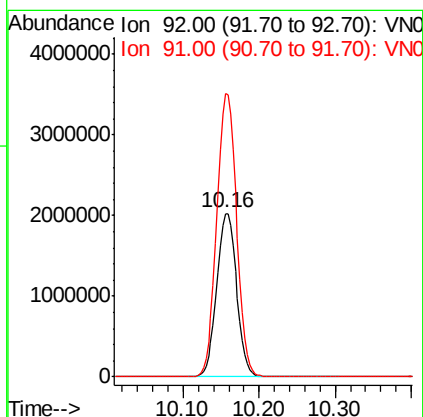
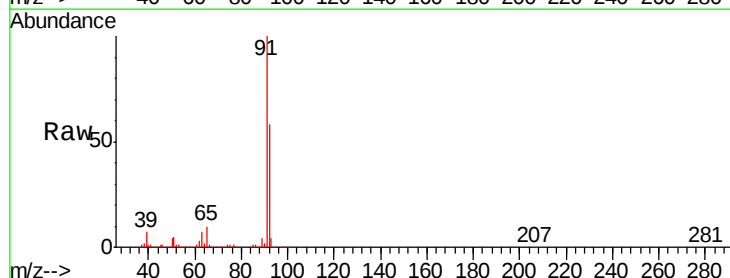
Acq: 11 Oct 2018 12:46

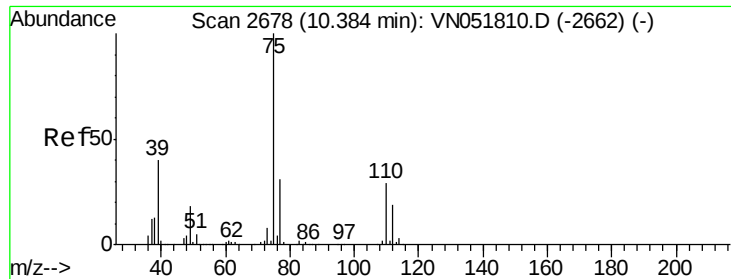
Tgt Ion: 92 Resp: 3662828

Ion Ratio Lower Upper

92 100

91 173.8 140.6 211.0





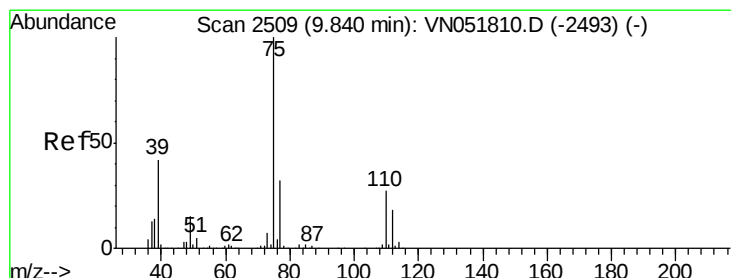
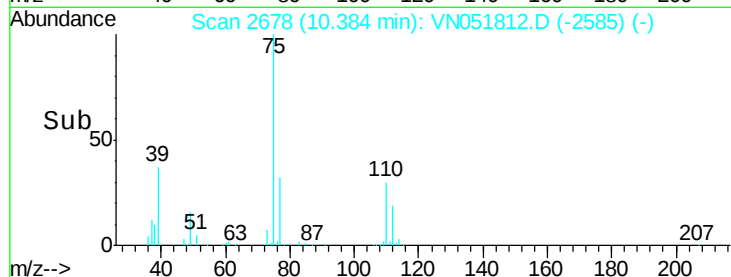
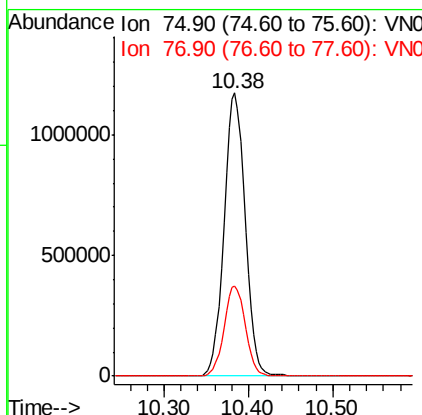
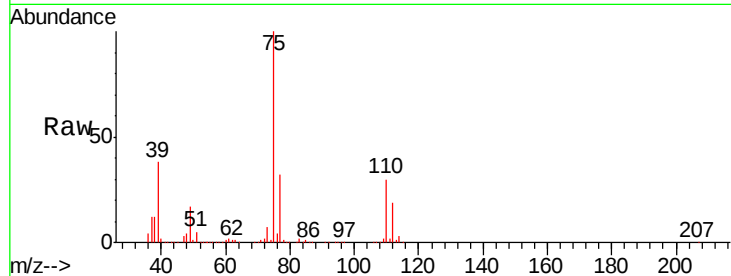
#53
 t-1,3-Dichloropropene
 Concen: 167.49 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 75 Resp: 2039164
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.7 38.5

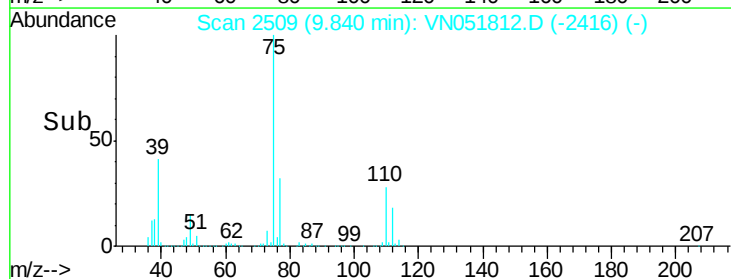
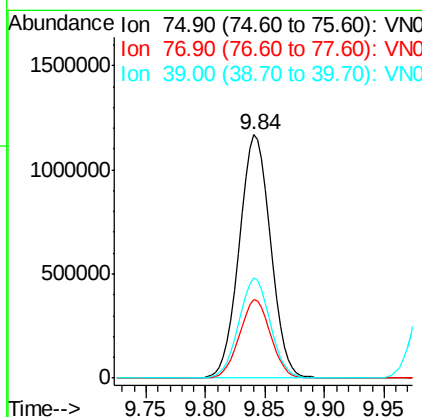
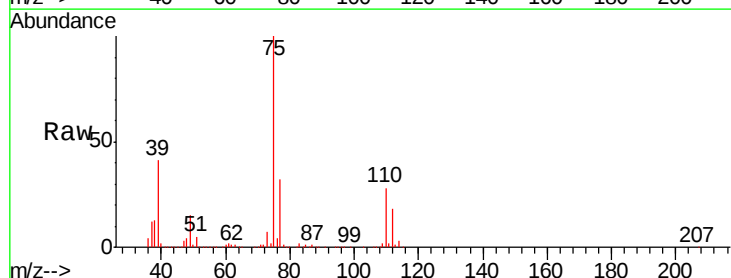
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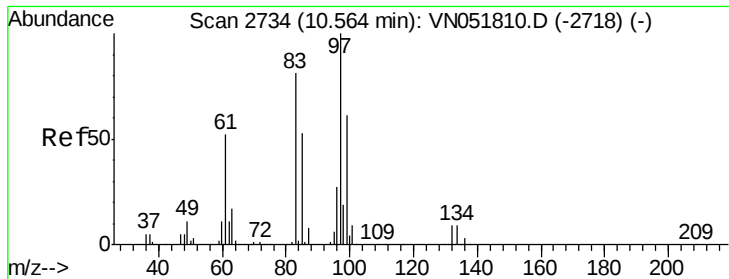
MMDadoda
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#54
 cis-1,3-Dichloropropene
 Concen: 158.64 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion: 75 Resp: 2141024
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.4 38.2
 39 41.0 33.0 49.4





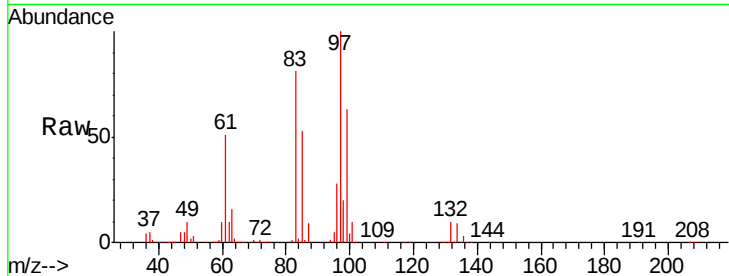
#55
 1,1,2-Trichloroethane
 Concen: 156.19 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.3	69.7	104.5
85	53.0	44.5	66.7
99	63.3	50.7	76.1

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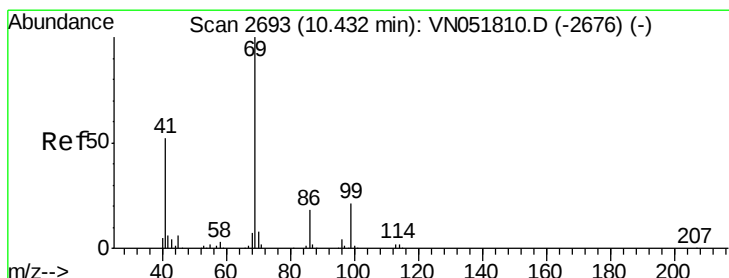
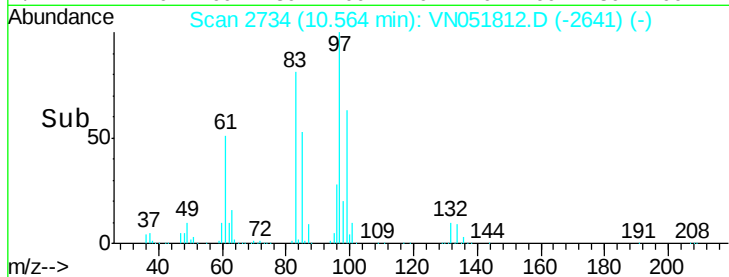
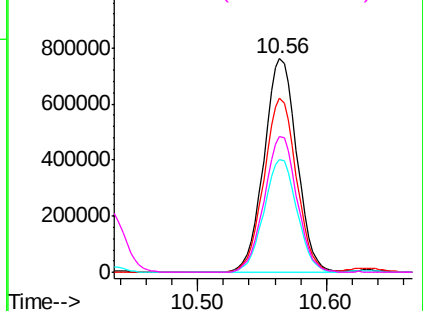
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

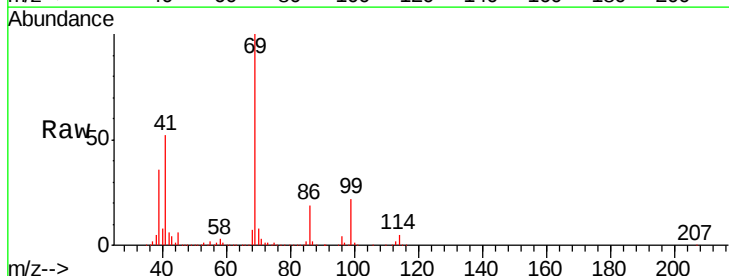
Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56
 Ethyl methacrylate
 Concen: 166.59 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion	Ratio	Lower	Upper
69	100		
41	52.6	48.3	72.5
39	36.5	24.0	36.0#

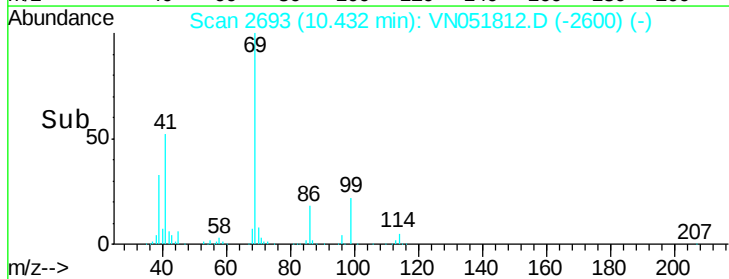
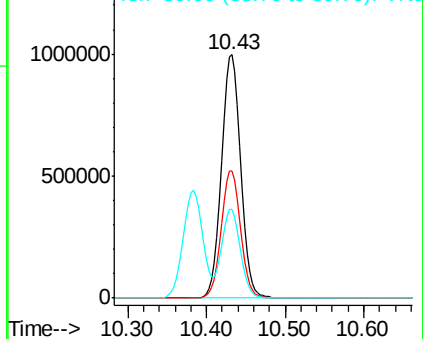


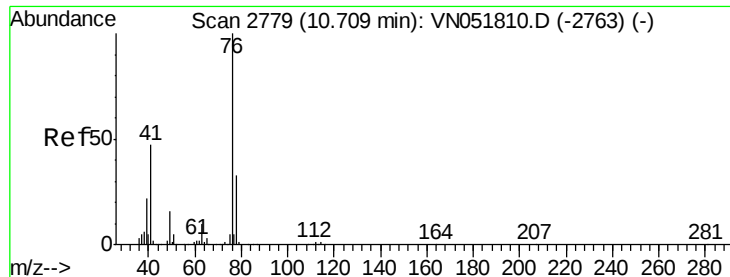
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 151.12 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 2035223

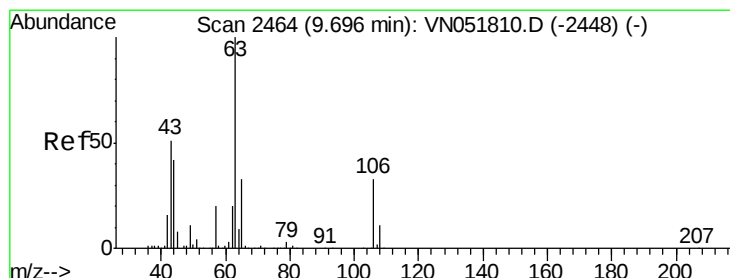
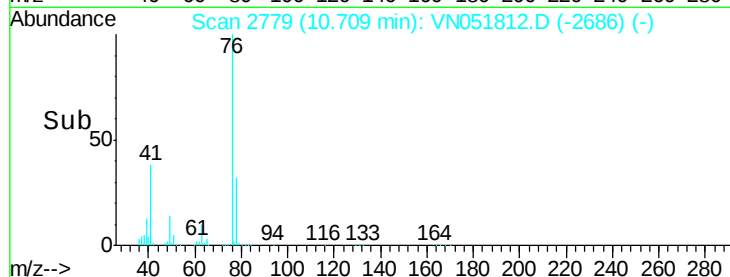
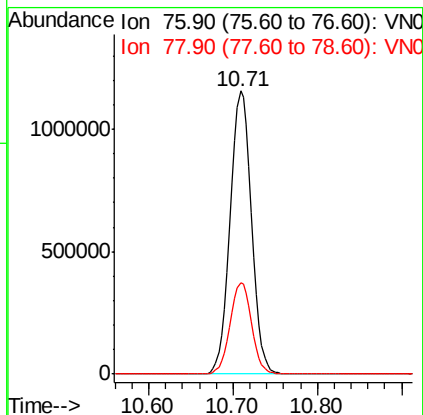
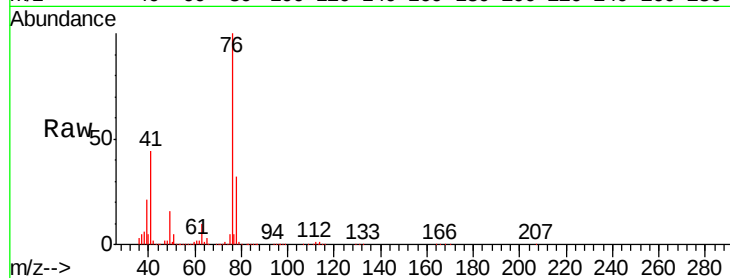
Ion Ratio Lower Upper

76 100

78 32.6 25.5 38.3

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#58

2-Chloroethyl Vinyl ether

Concen: 829.10 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN051812.D

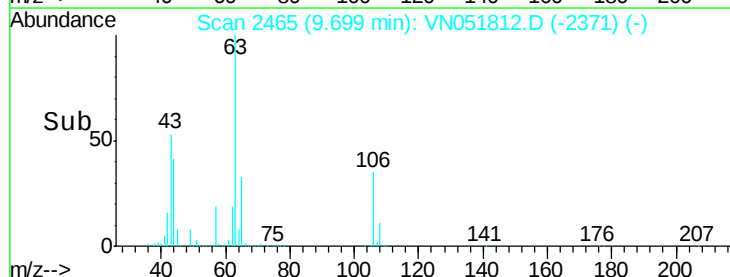
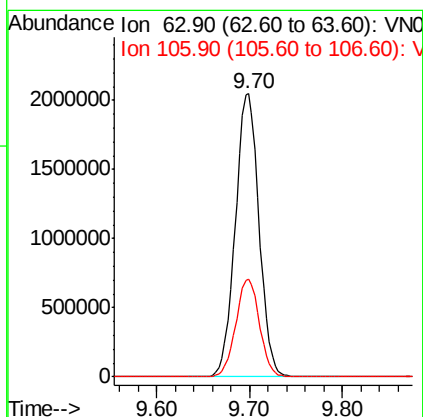
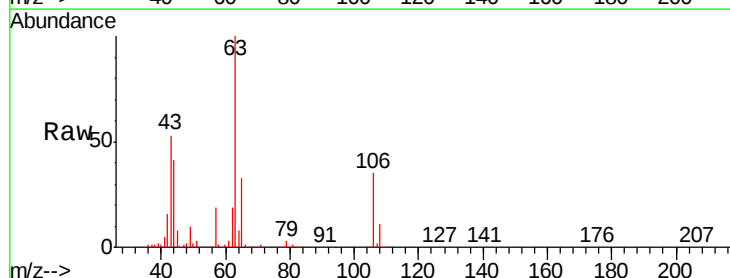
Acq: 11 Oct 2018 12:46

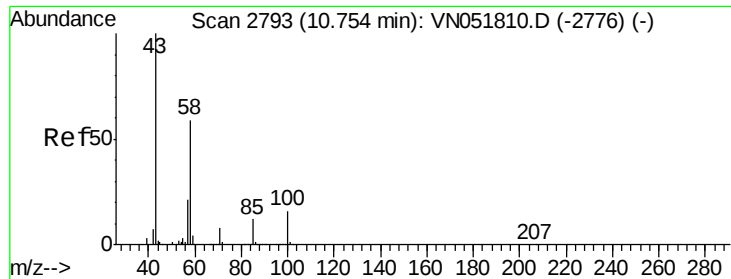
Tgt Ion: 63 Resp: 3626502

Ion Ratio Lower Upper

63 100

106 34.5 21.9 32.9#





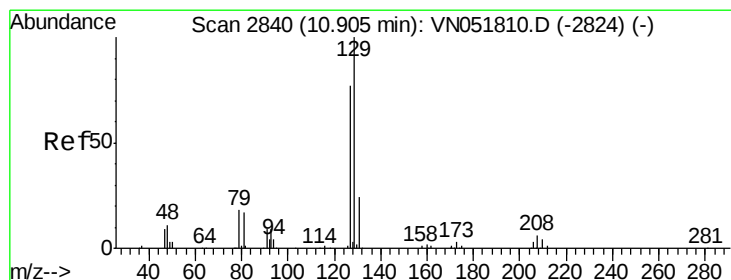
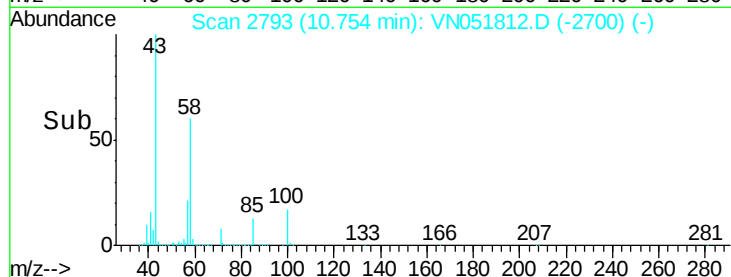
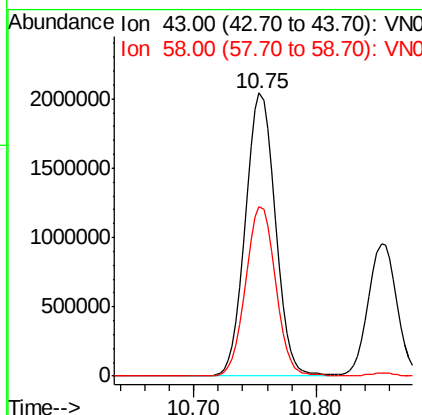
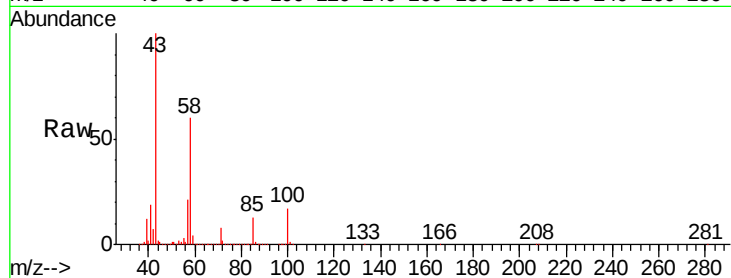
#59
2-Hexanone
Concen: 777.83 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 3446940
Ion Ratio Lower Upper
43 100
58 60.0 28.3 85.0

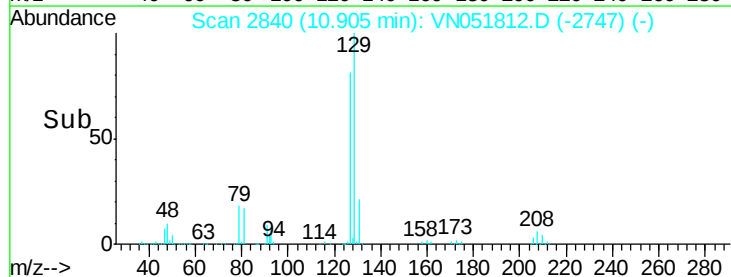
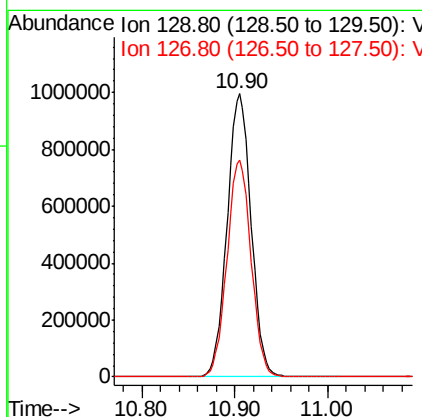
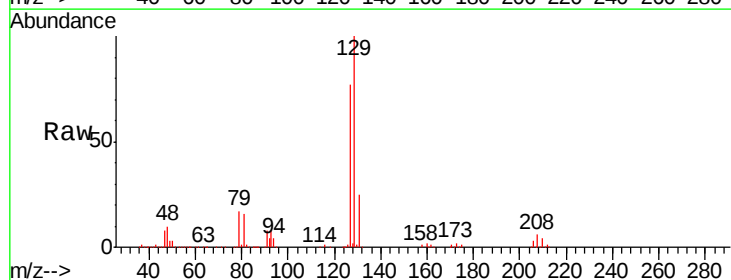
Manual Integrations
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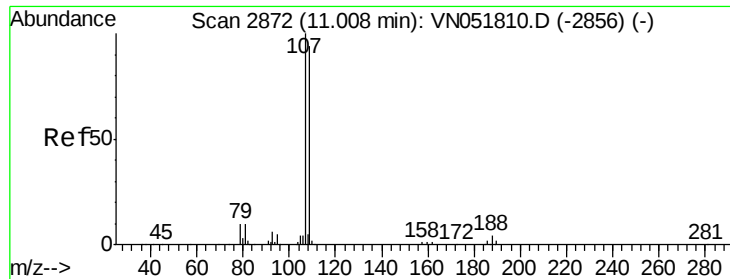
MMDadoda
10/15/2018 3:00:15 PM



#60
Dibromochloromethane
Concen: 178.37 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 129 Resp: 1781812
Ion Ratio Lower Upper
129 100
127 77.1 38.3 114.9





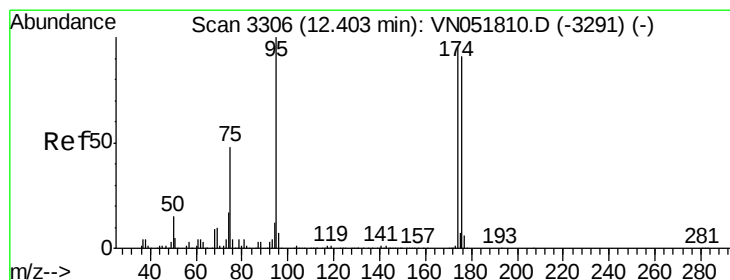
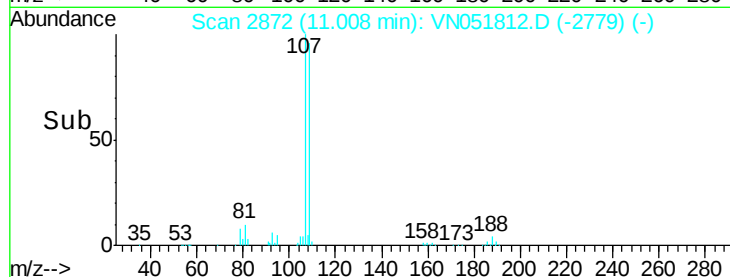
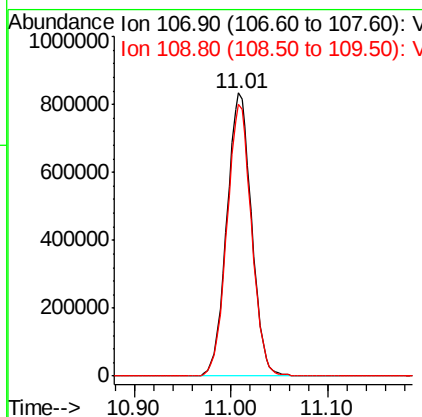
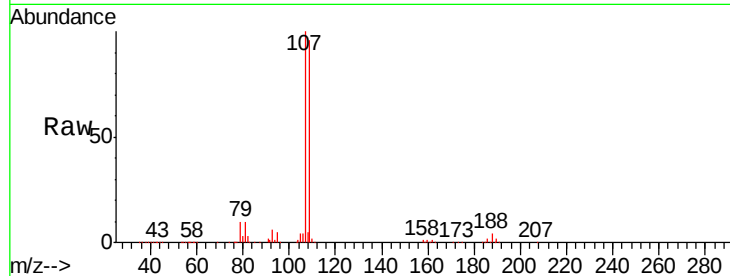
#61
 1,2-Dibromoethane
 Concen: 169.12 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 107 Resp: 1480407
 Ion Ratio Lower Upper
 107 100
 109 95.4 75.4 113.2

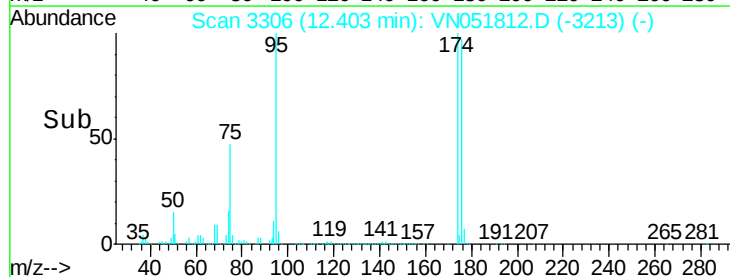
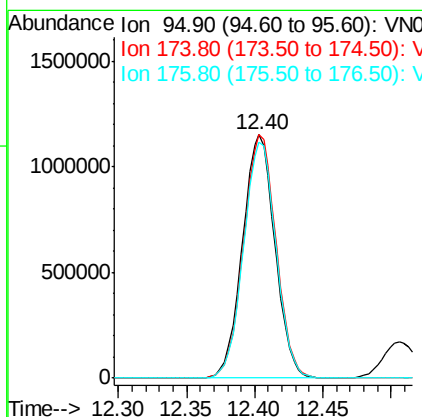
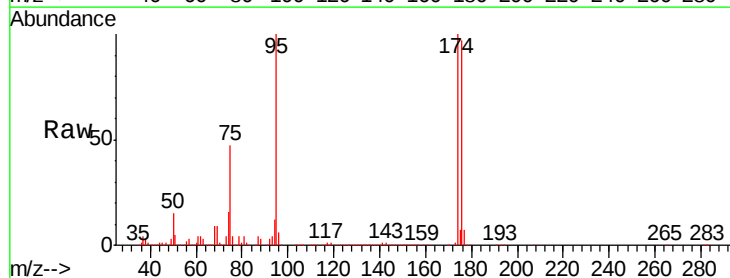
Manual Integrations
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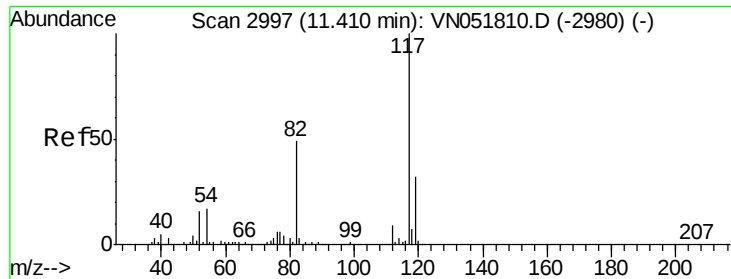
MMDadoda
 10/15/2018 3:00:15 PM



#62
 4-Bromofluorobenzene
 Concen: 169.12 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion: 95 Resp: 1898480
 Ion Ratio Lower Upper
 95 100
 174 100.3 0.0 183.0
 176 97.2 0.0 178.8





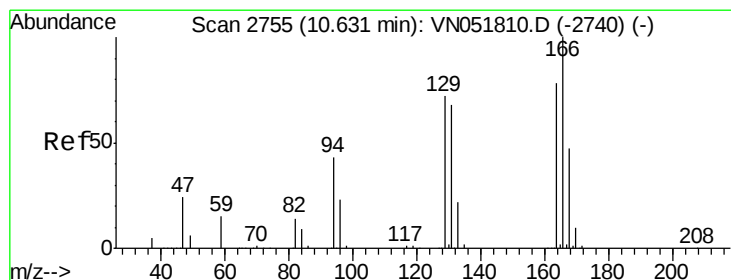
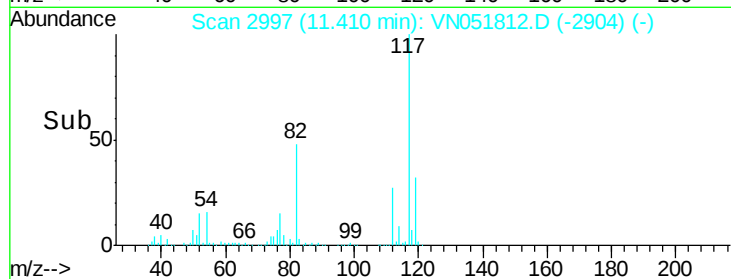
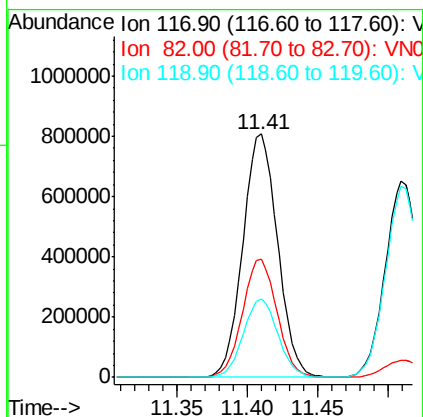
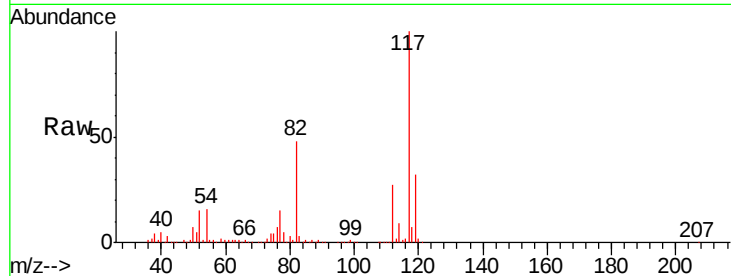
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:117 Resp: 1399134
Ion Ratio Lower Upper
117 100
82 48.3 42.6 64.0
119 32.1 25.8 38.6

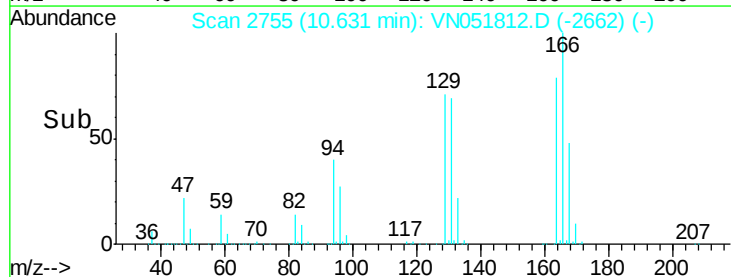
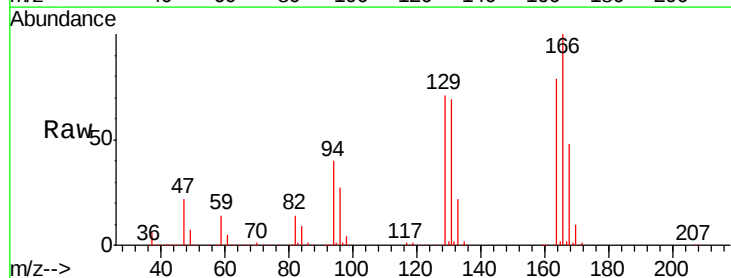
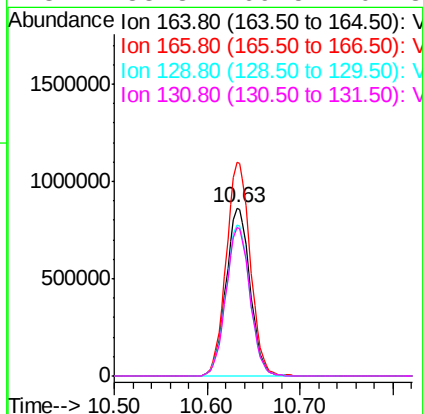
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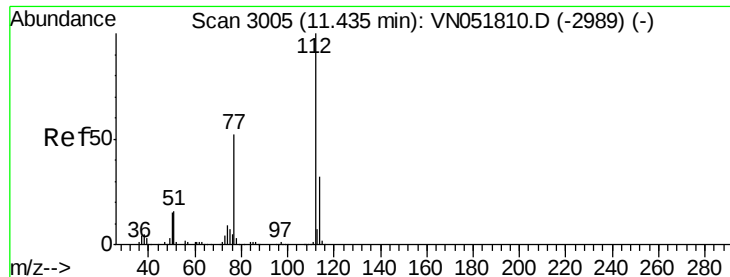
MMDadoda
10/15/2018 3:00:15 PM



#64
Tetrachloroethene
Concen: 143.58 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion:164 Resp: 1551862
Ion Ratio Lower Upper
164 100
166 127.2 103.5 155.3
129 90.1 72.7 109.1
131 88.3 69.5 104.3





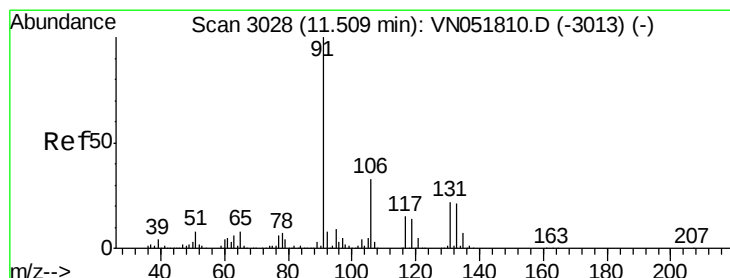
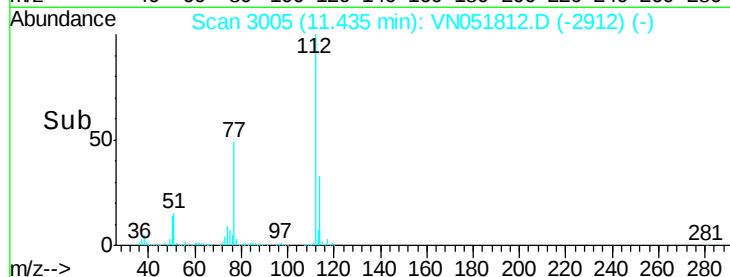
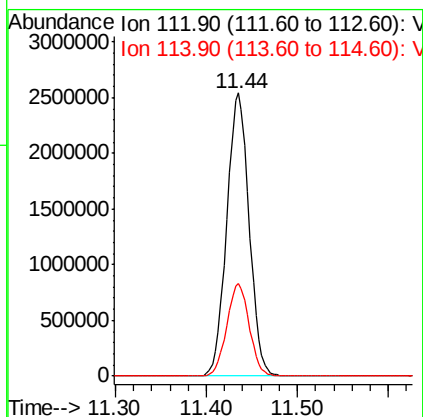
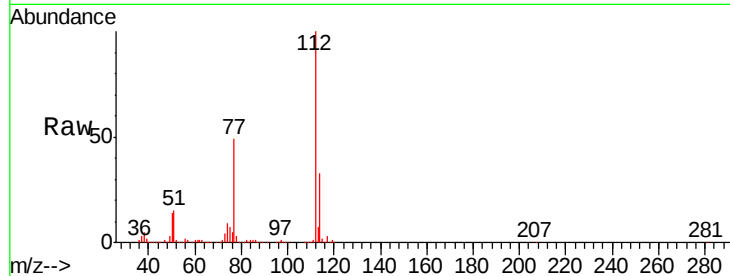
#65
Chlorobenzene
Concen: 153.72 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 4331702
Ion Ratio Lower Upper
112 100
114 32.6 25.6 38.4

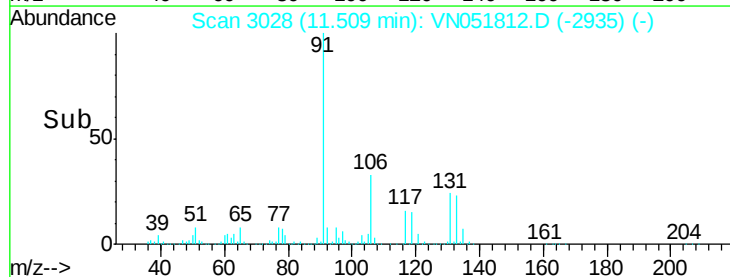
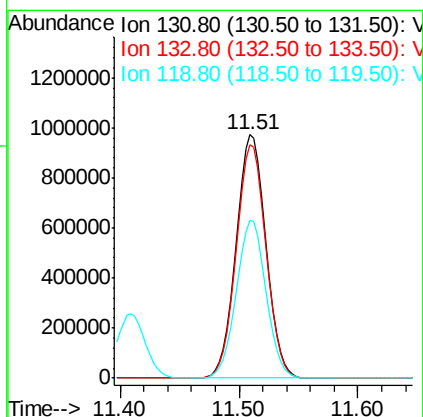
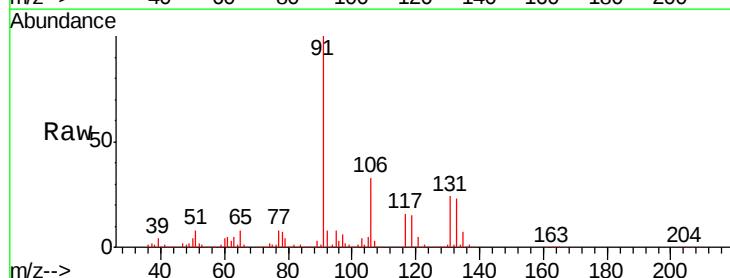
Manual Integrations
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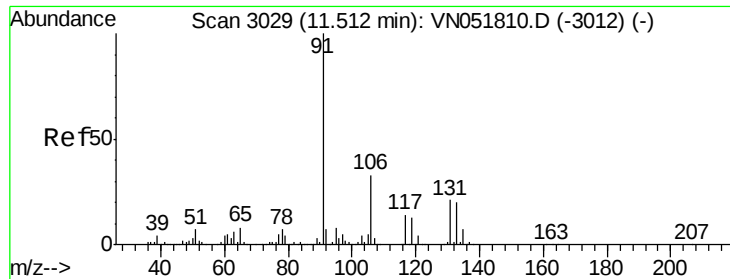
MMDadoda
10/15/2018 3:00:15 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 157.59 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion:131 Resp: 1685349
Ion Ratio Lower Upper
131 100
133 95.7 47.4 142.3
119 64.7 32.8 98.4





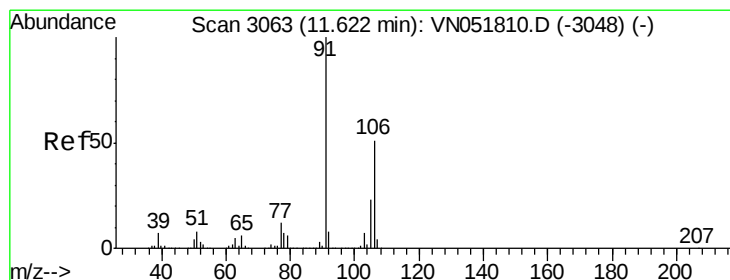
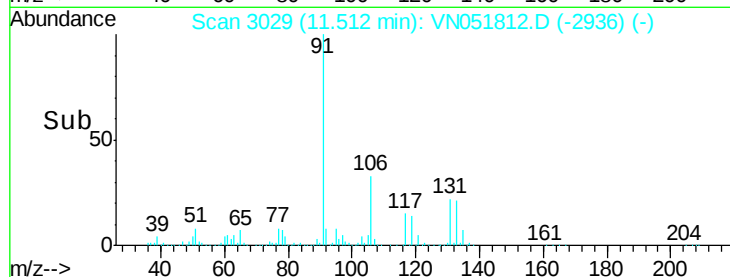
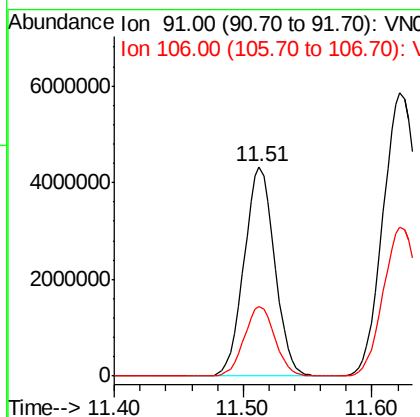
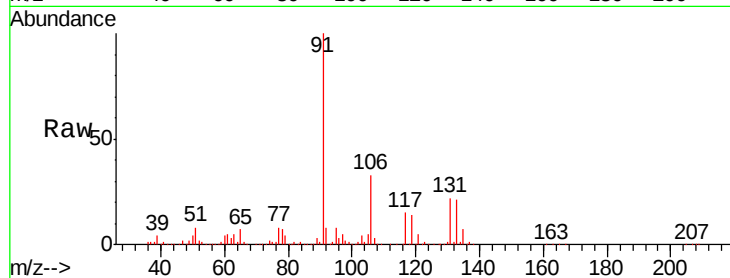
#67
Ethyl Benzene
Concen: 153.06 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 7145235
Ion Ratio Lower Upper
91 100
106 33.5 25.0 37.4

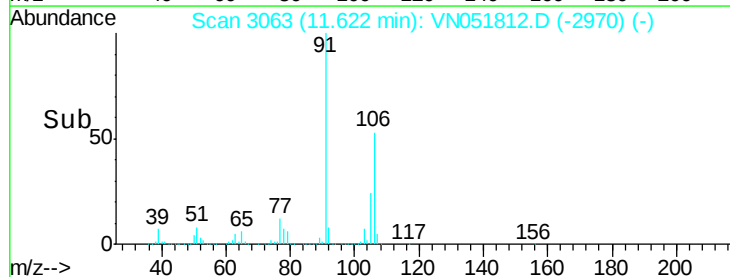
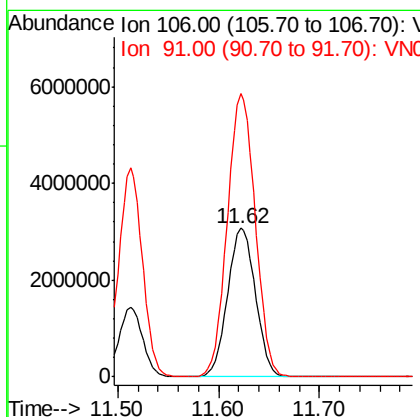
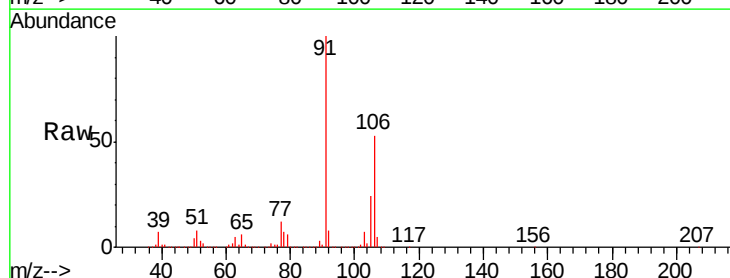
Manual Integrations
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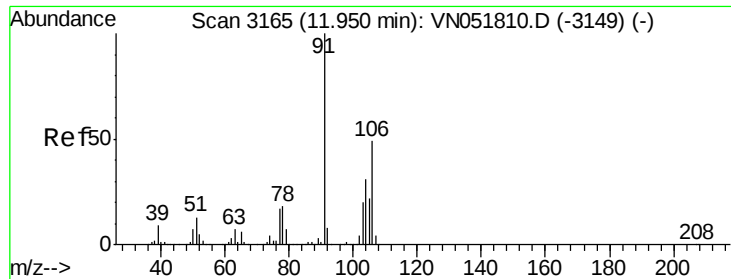
MMDadoda
10/15/2018 3:00:15 PM



#68
m/p-Xylenes
Concen: 315.65 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 106 Resp: 5921010
Ion Ratio Lower Upper
106 100
91 190.5 161.0 241.6





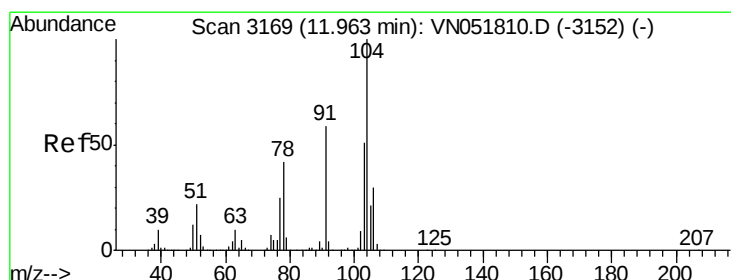
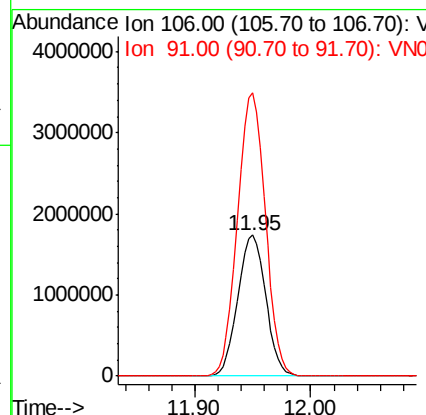
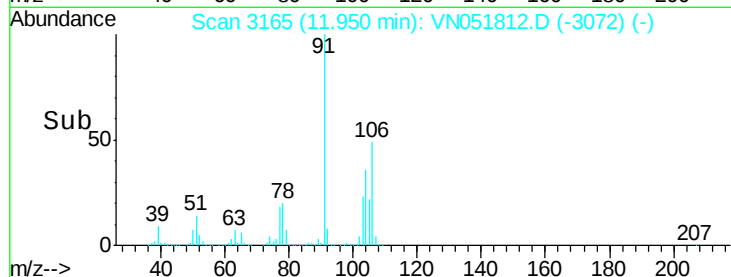
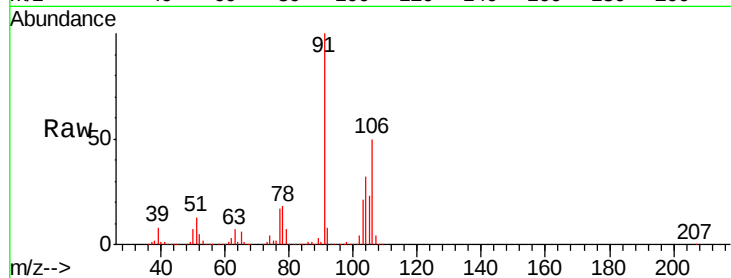
#69
o-Xylene
Concen: 159.08 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:106 Resp: 2894172
Ion Ratio Lower Upper
106 100
91 200.4 106.5 319.5

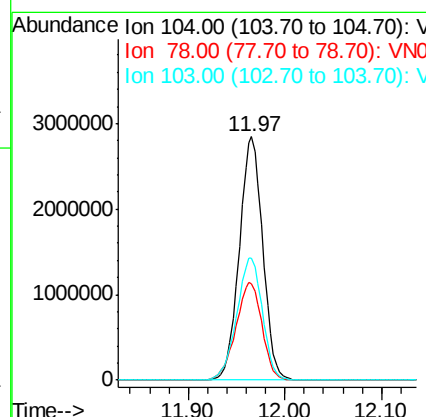
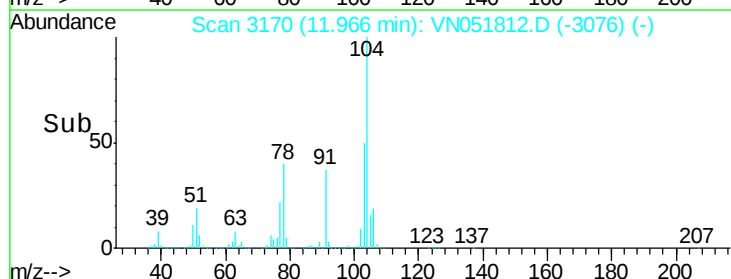
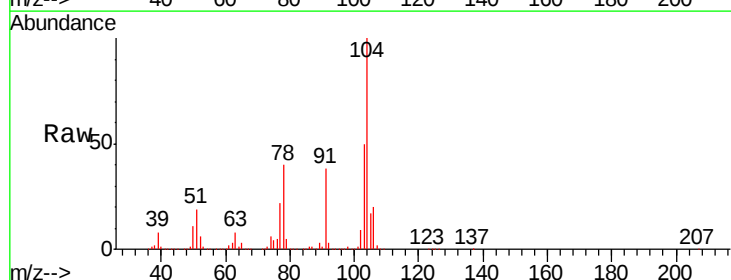
Manual Integrations
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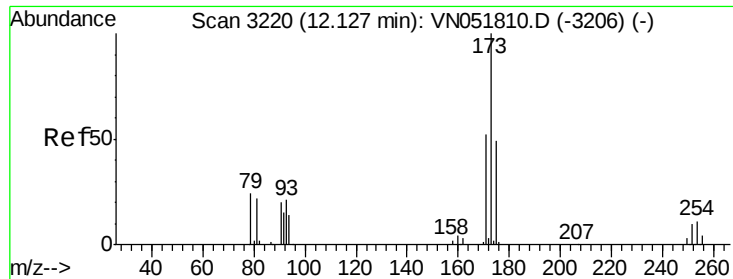
MMDadoda
10/15/2018 3:00:15 PM



#70
Styrene
Concen: 172.58 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion:104 Resp: 4772918
Ion Ratio Lower Upper
104 100
78 44.7 38.2 57.4
103 55.0 44.4 66.6





#71

Bromoform

Concen: 190.41 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:173 Resp: 1364754

Ion Ratio Lower Upper

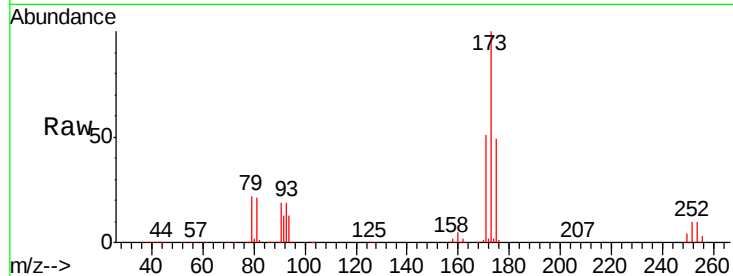
173 100

175 48.7 24.4 73.4

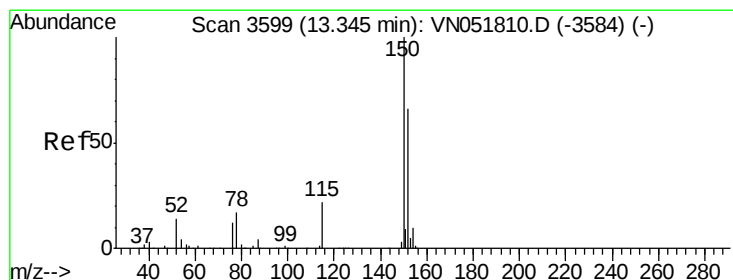
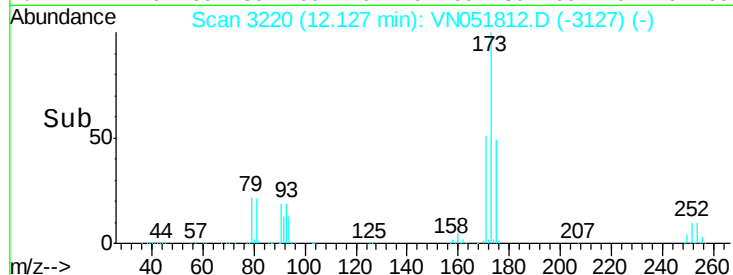
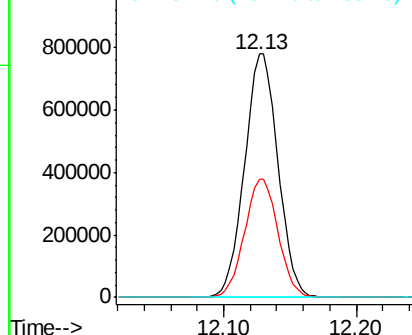
254 0.2 0.1 0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

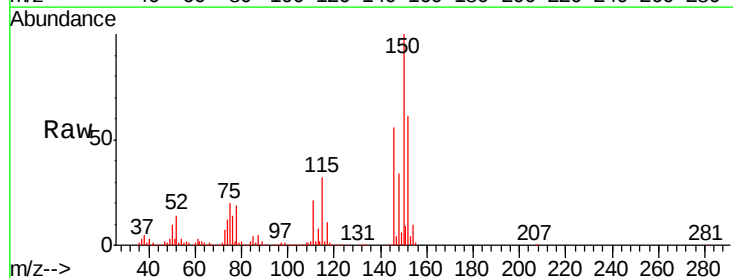
Tgt Ion:152 Resp: 775104

Ion Ratio Lower Upper

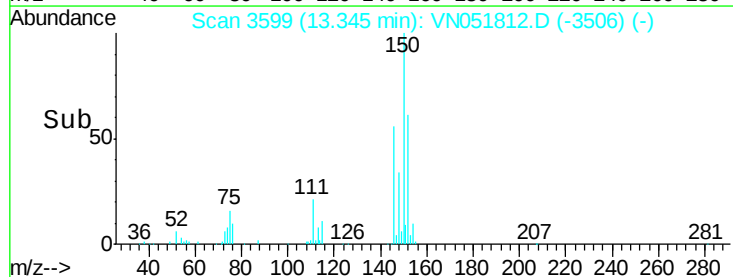
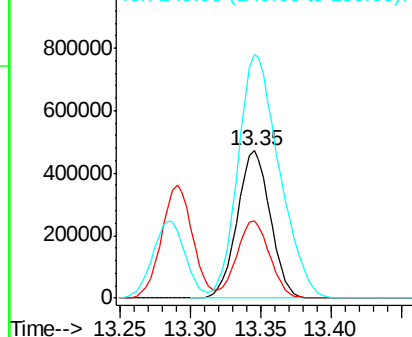
152 100

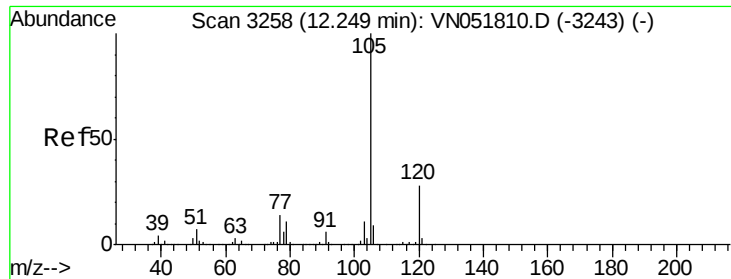
115 52.6 27.8 83.4

150 205.8 0.0 351.4



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





#73

Isopropylbenzene

Concen: 126.15 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 105 Resp: 7739734

Ion Ratio Lower Upper

105 100

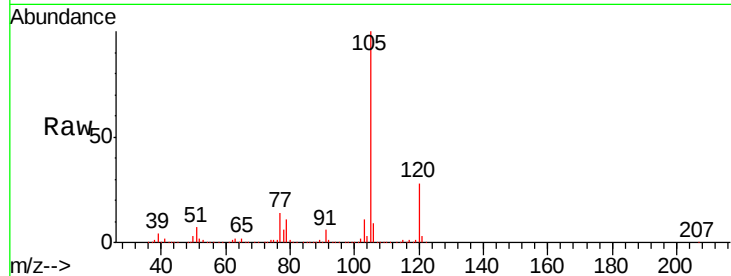
120 28.3 13.5 40.4

Manual Integrations

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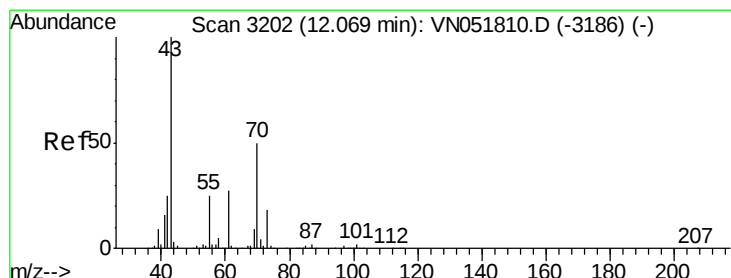
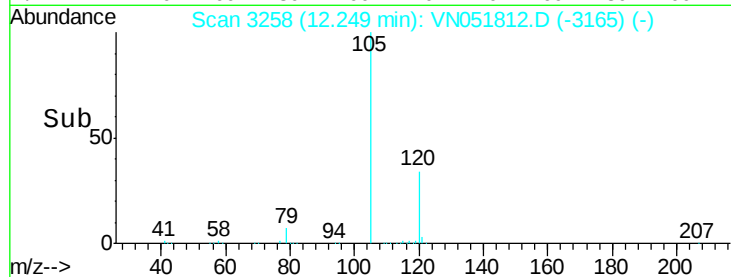
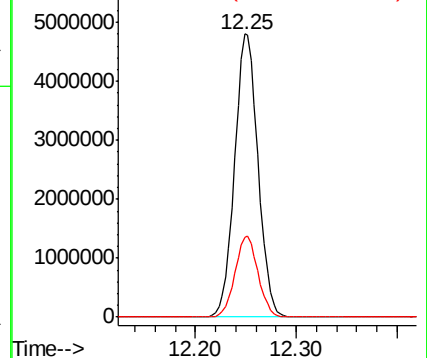
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 143.55 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Tgt Ion: 43 Resp: 1712518

Ion Ratio Lower Upper

43 100

70 49.6 36.2 54.2

55 24.8 21.8 32.8

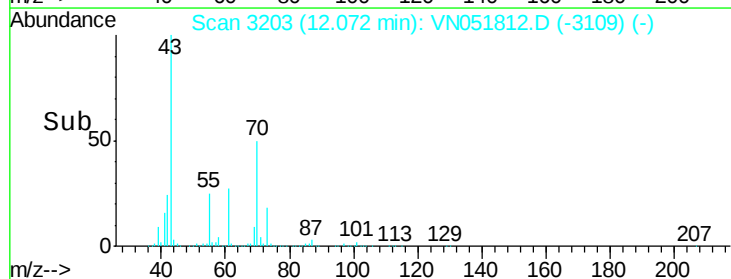
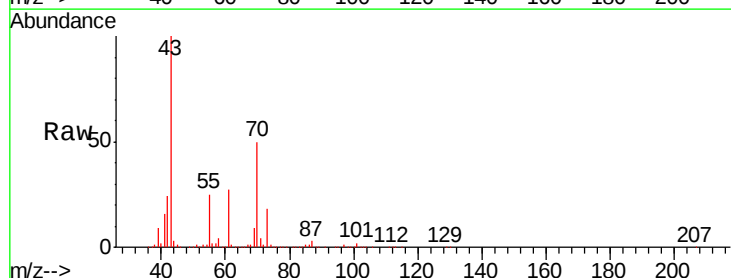
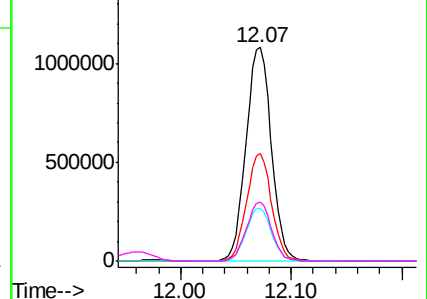
61 27.3 20.5 30.7

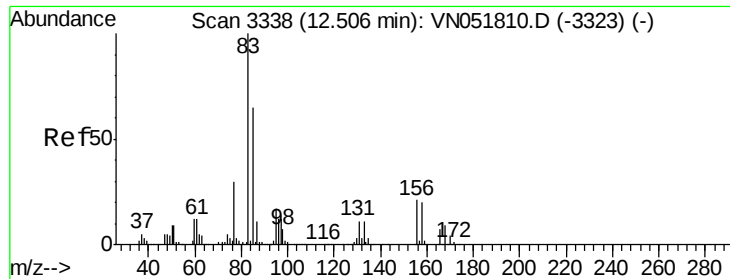
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 125.69 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 1694650

Ion Ratio Lower Upper

83 100

131 12.5 5.3 15.9

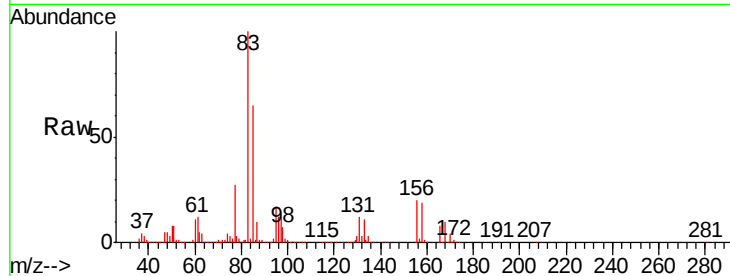
85 65.4 31.9 95.7

Manual Integrations

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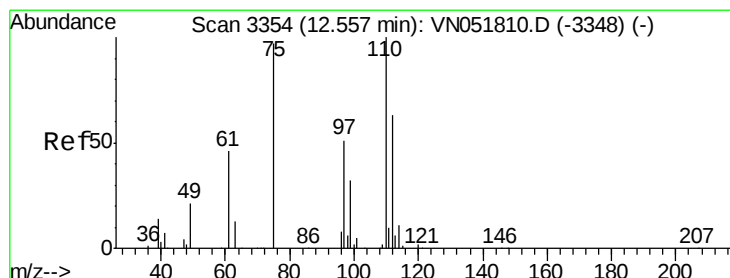
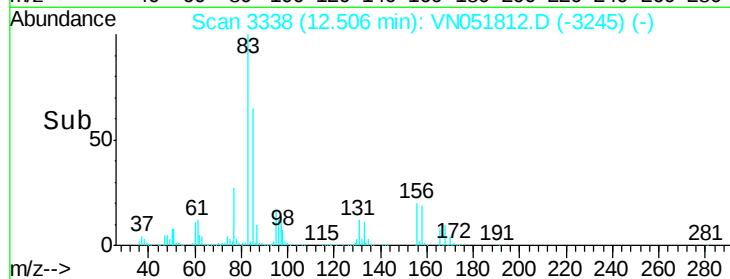
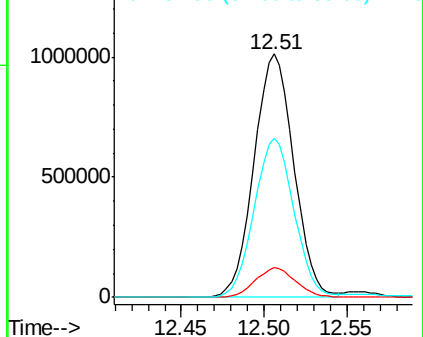
10/15/2018 3:00:15 PM



Abundance Ion 82.90 (82.60 to 83.60): VN051812.D (-3338) (-)

Ion 130.80 (130.50 to 131.50): VN051812.D (-3338) (-)

Ion 84.90 (84.60 to 85.60): VN051812.D (-3338) (-)



#76

1,2,3-Trichloropropane

Concen: 133.66 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051812.D

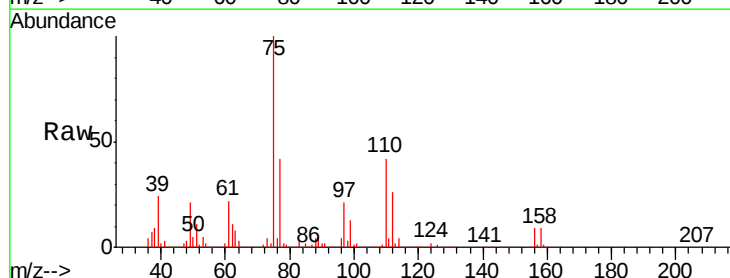
Acq: 11 Oct 2018 12:46

Tgt Ion: 75 Resp: 1460641

Ion Ratio Lower Upper

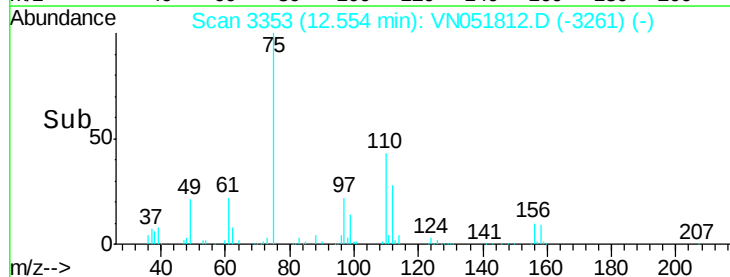
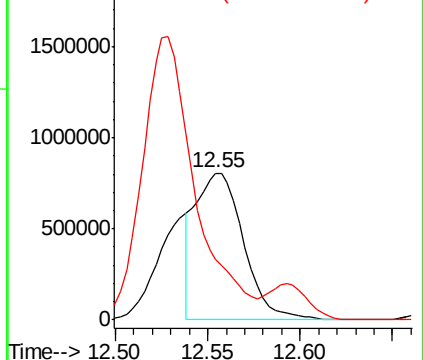
75 100

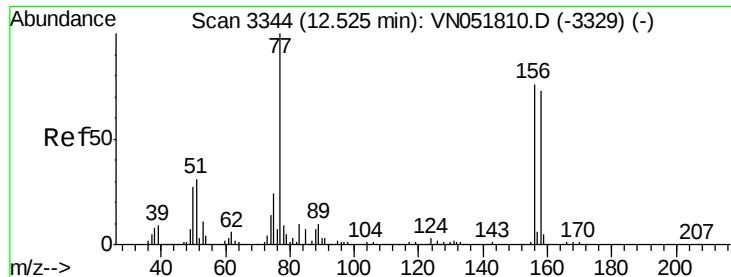
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN051812.D (-3354) (-)

Ion 77.00 (76.70 to 77.70): VN051812.D (-3354) (-)





#77

Bromobenzene

Concen: 139.31 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 156 Resp: 2099599

Ion Ratio Lower Upper

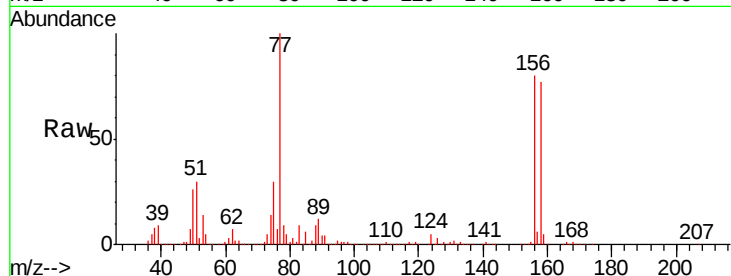
156 100

77 147.5 89.9 269.7

158 96.7 49.3 147.9

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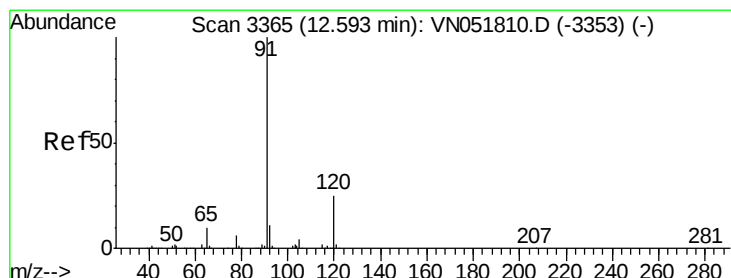
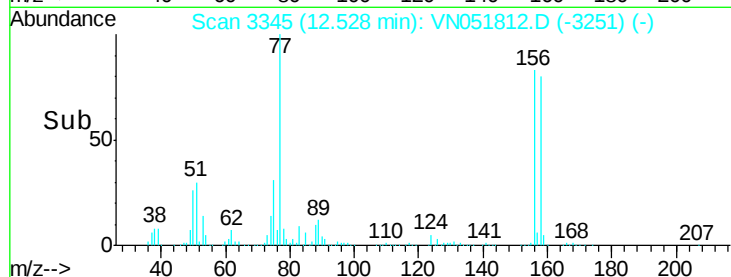
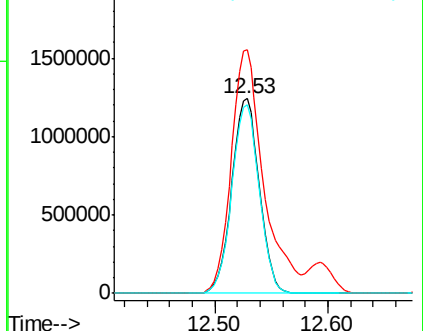
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 132.14 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN051812.D

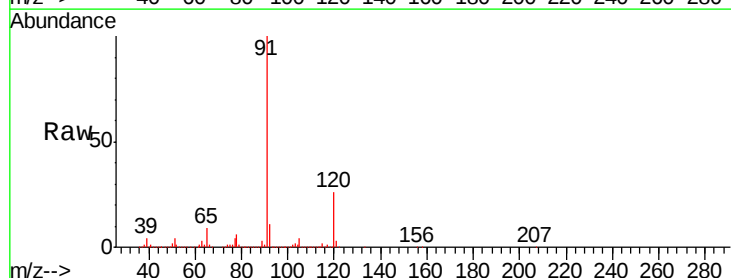
Acq: 11 Oct 2018 12:46

Tgt Ion: 91 Resp: 8432120

Ion Ratio Lower Upper

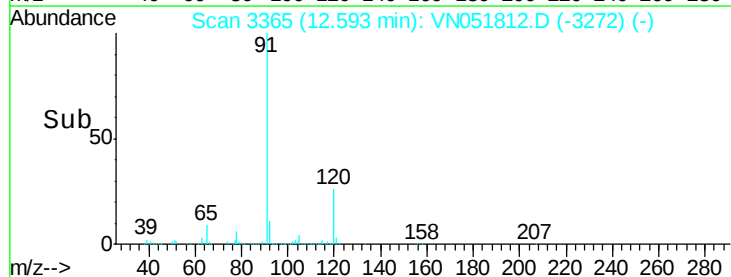
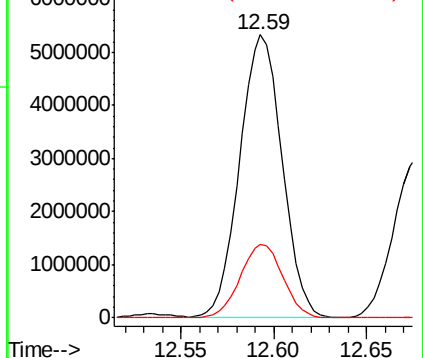
91 100

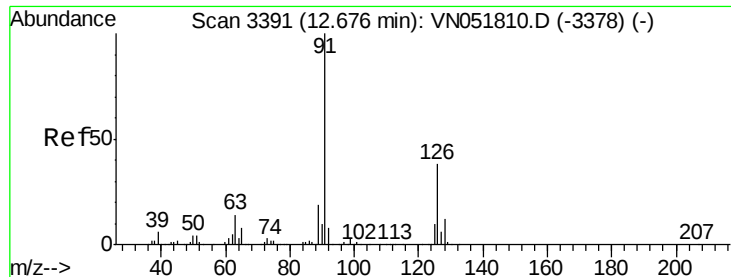
120 26.2 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 126.29 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 4886867

Ion Ratio Lower Upper

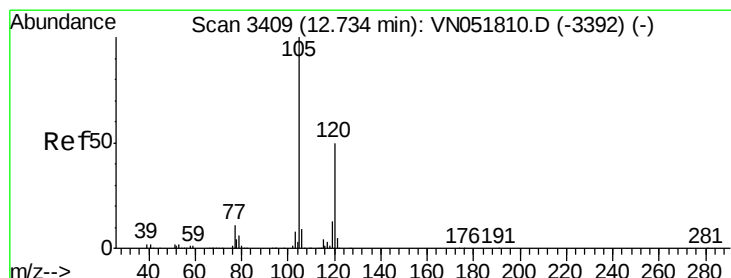
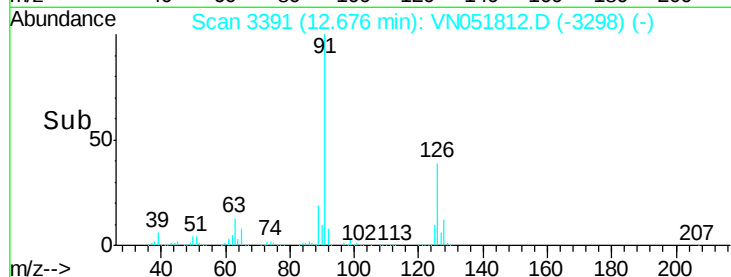
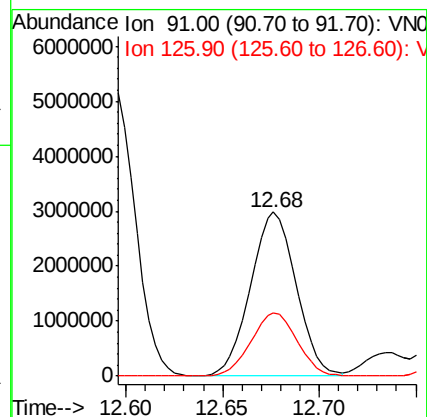
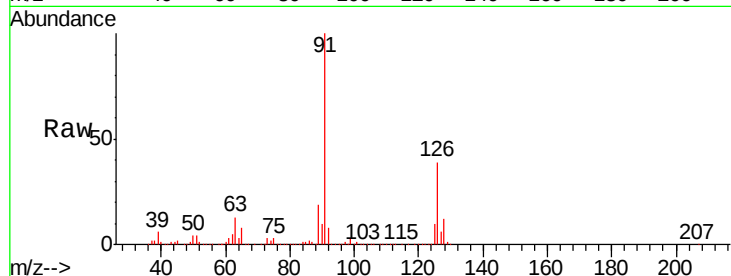
91 100

126 39.0 17.8 53.3

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 131.60 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN051812.D

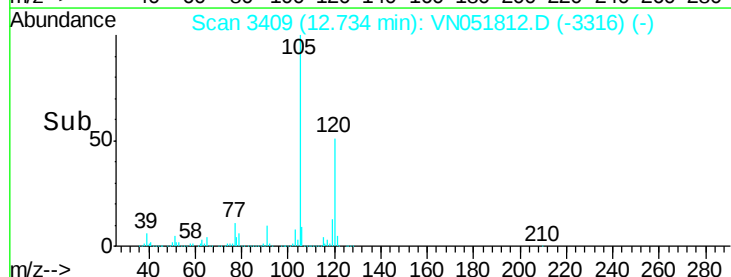
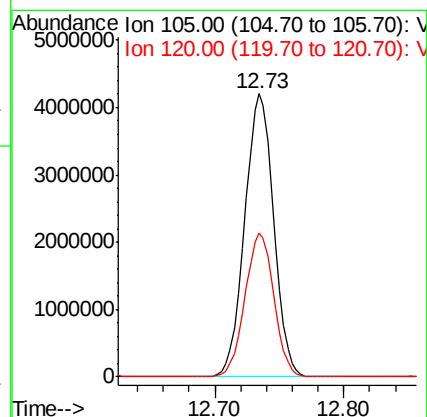
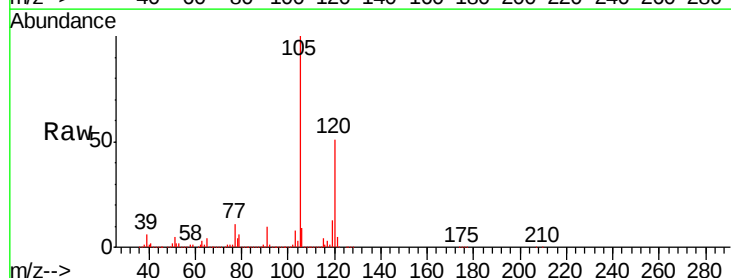
Acq: 11 Oct 2018 12:46

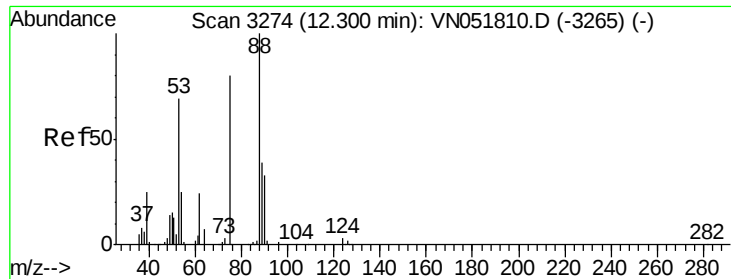
Tgt Ion: 105 Resp: 6538352

Ion Ratio Lower Upper

105 100

120 50.6 24.6 74.0





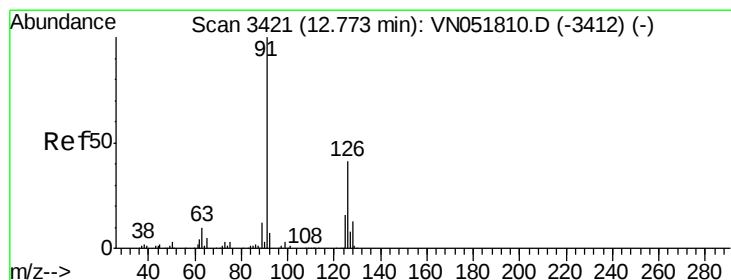
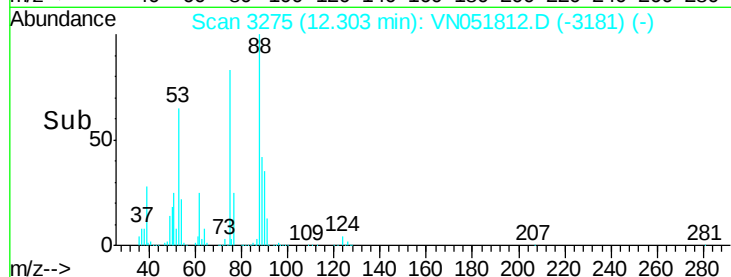
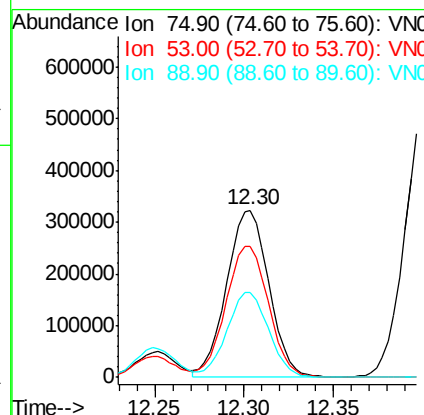
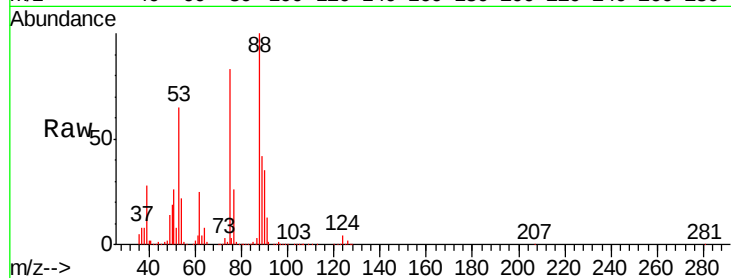
#81
trans-1,4-Dichloro-2-butene
Concen: 158.56 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
75	100		
53	80.0	68.9	103.3
89	50.5	36.1	54.1

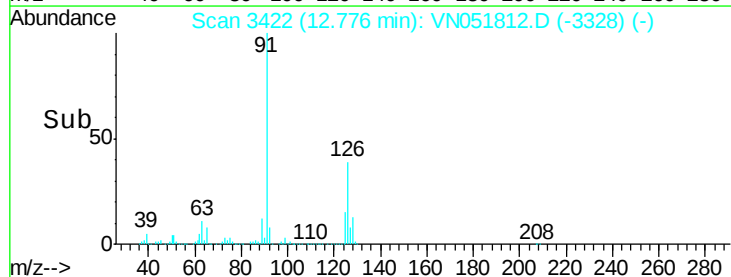
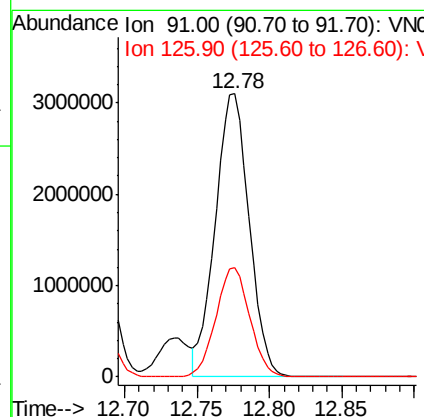
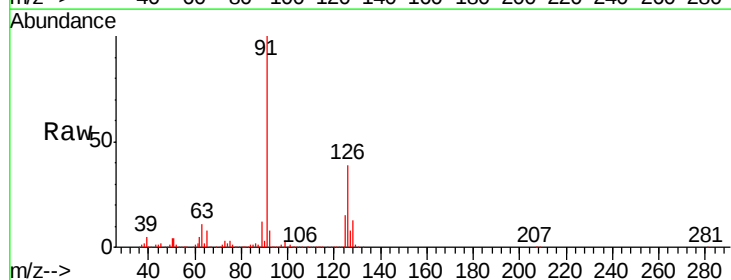
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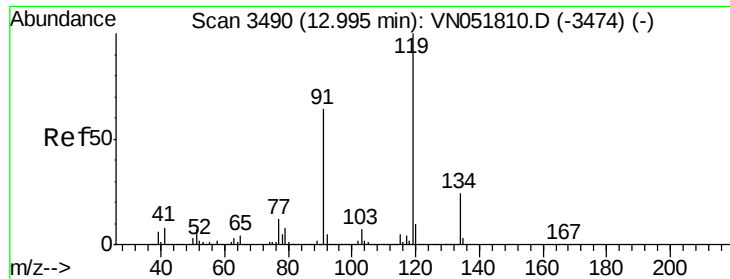
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#82
4-Chlorotoluene
Concen: 137.64 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	38.7	17.5	52.5





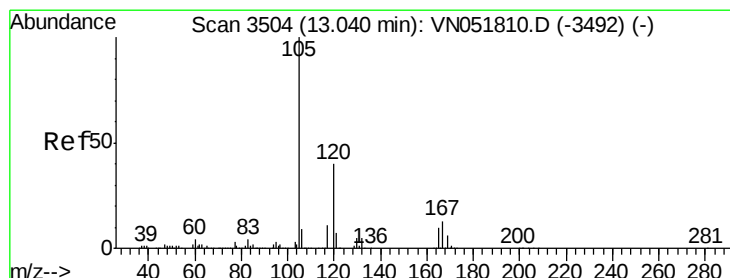
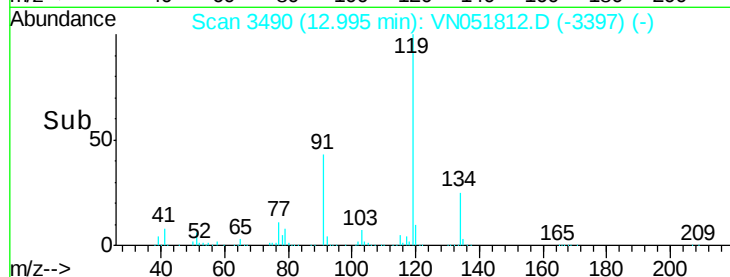
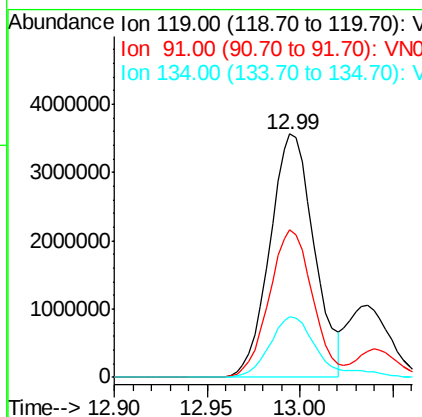
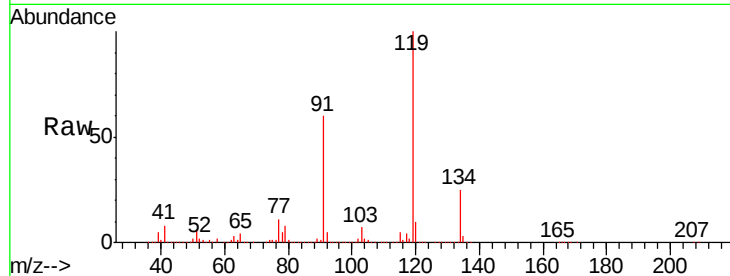
#83
 tert-Butylbenzene
 Concen: 128.69 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:119 Resp: 5949545
 Ion Ratio Lower Upper
 119 100
 91 59.4 31.6 94.7
 134 26.9 13.4 40.1

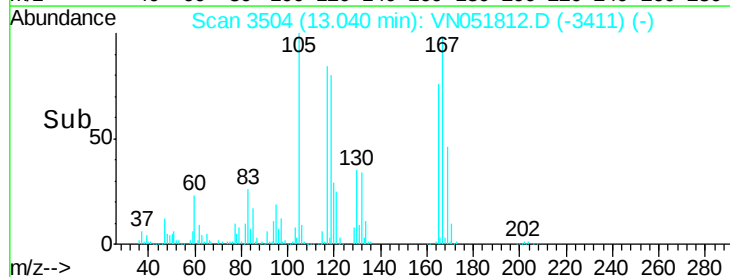
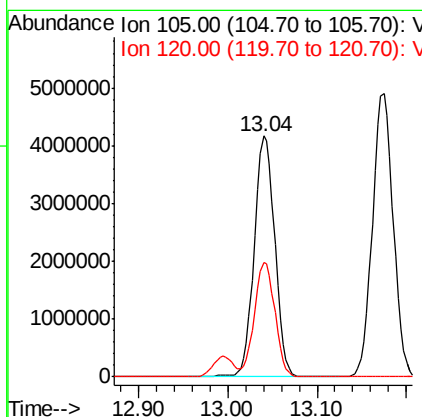
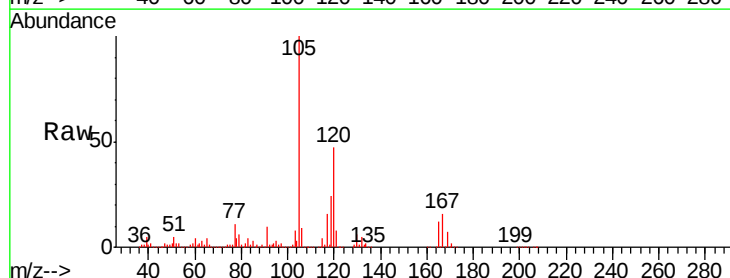
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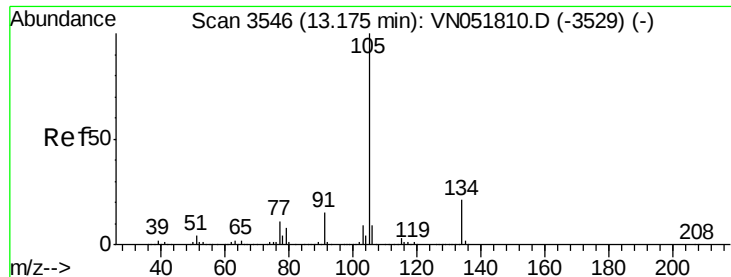
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#84
 1,2,4-Trimethylbenzene
 Concen: 135.43 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion:105 Resp: 6670451
 Ion Ratio Lower Upper
 105 100
 120 47.3 22.9 68.8





#85

sec-Butylbenzene

Concen: 131.83 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 7867851

Ion Ratio Lower Upper

105 100

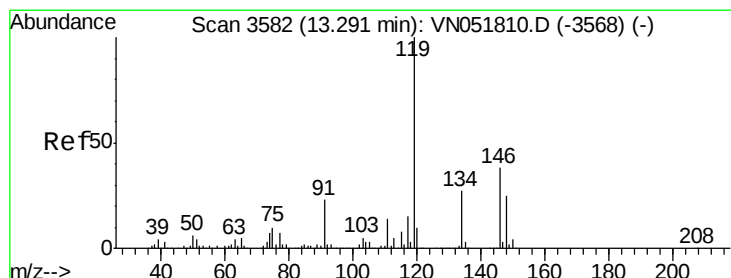
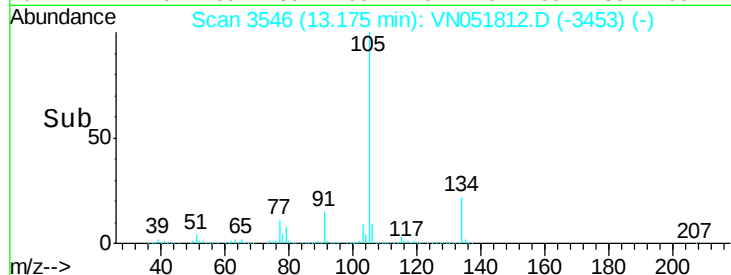
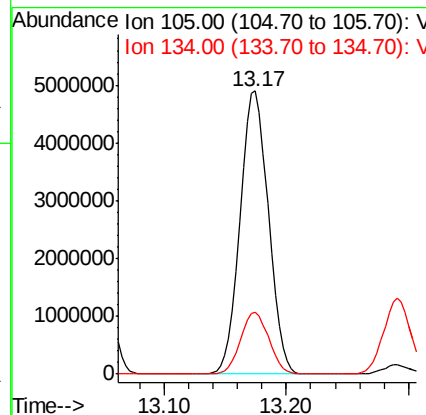
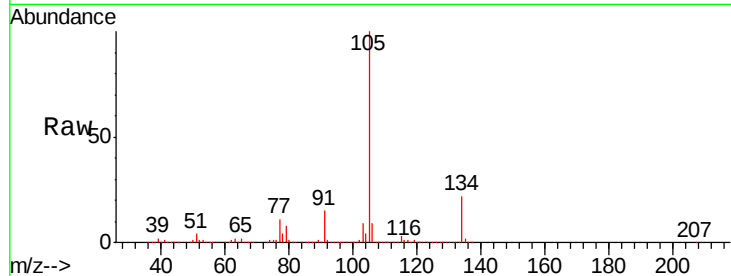
134 21.7 10.3 30.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 141.17 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

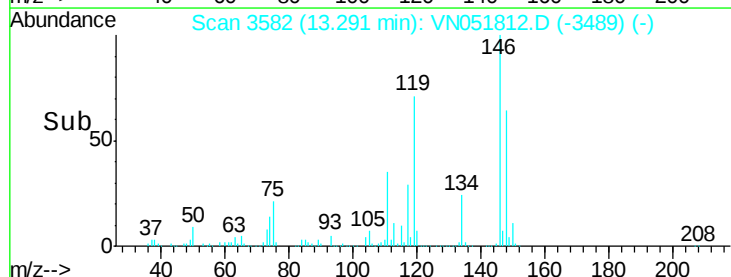
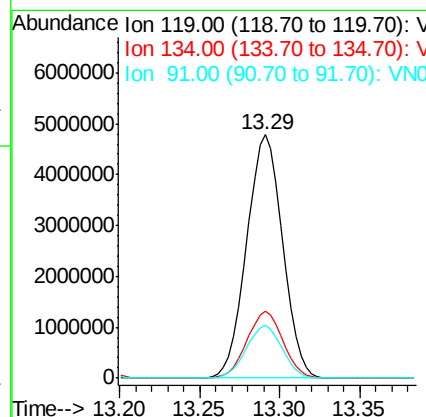
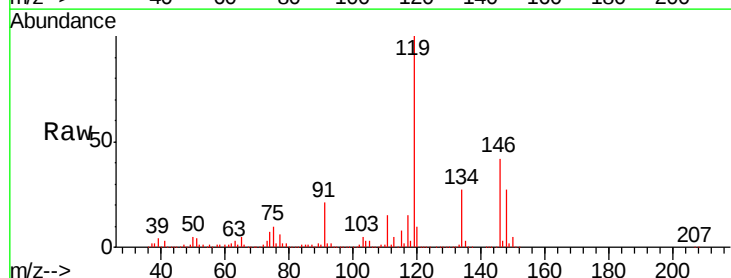
Tgt Ion:119 Resp: 7331519

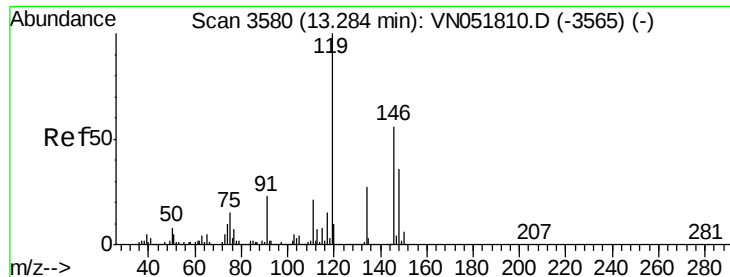
Ion Ratio Lower Upper

119 100

134 27.5 13.7 41.0

91 21.5 11.2 33.5





#87

1,3-Dichlorobenzene

Concen: 153.39 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

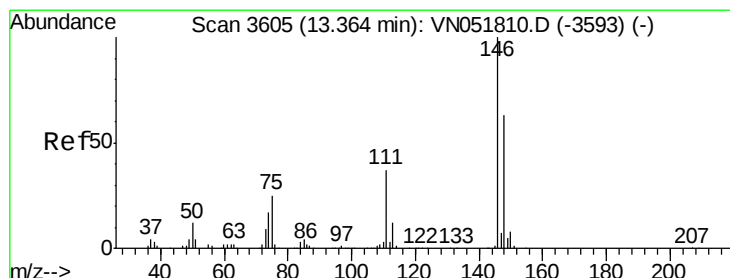
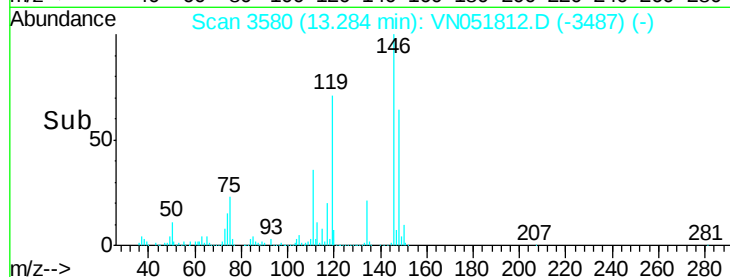
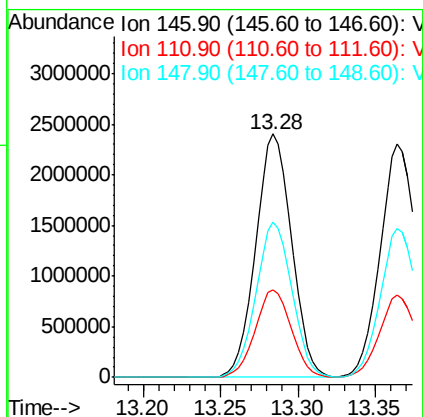
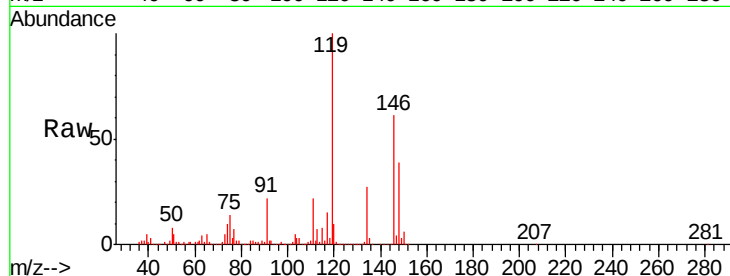
VSTDIC150

Tgt Ion:146 Resp: 3892033

Ion	Ratio	Lower	Upper
146	100		
111	36.1	19.1	57.3
148	63.8	32.2	96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 153.16 ug/l

RT: 13.36 min Scan# 3605

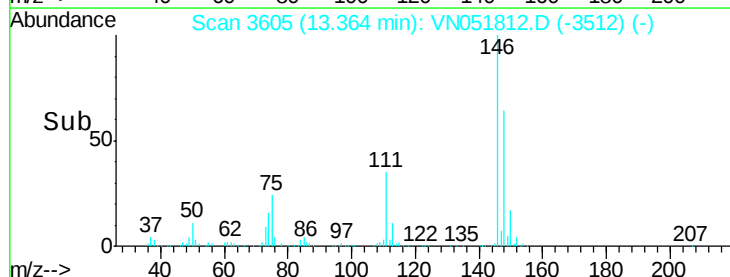
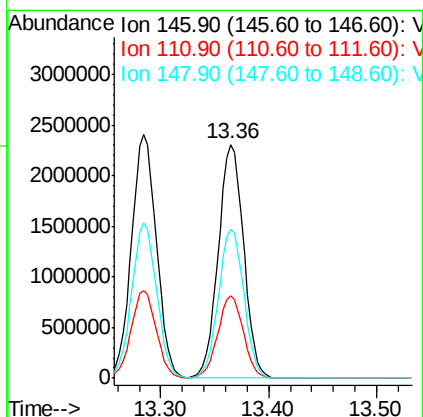
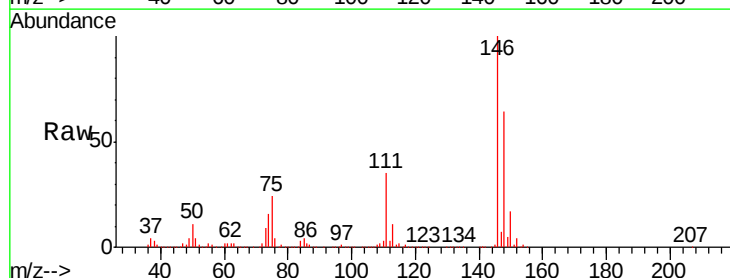
Delta R.T. -0.00 min

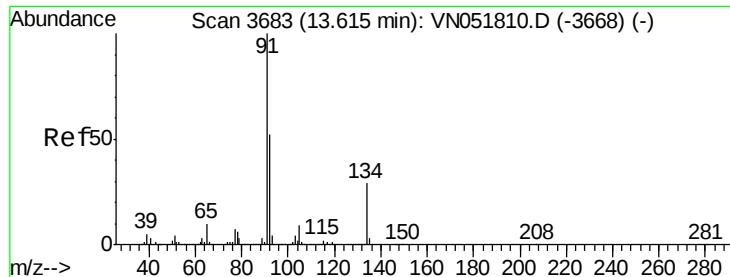
Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Tgt Ion:146 Resp: 3767636

Ion	Ratio	Lower	Upper
146	100		
111	35.1	18.8	56.3
148	64.0	32.2	96.6





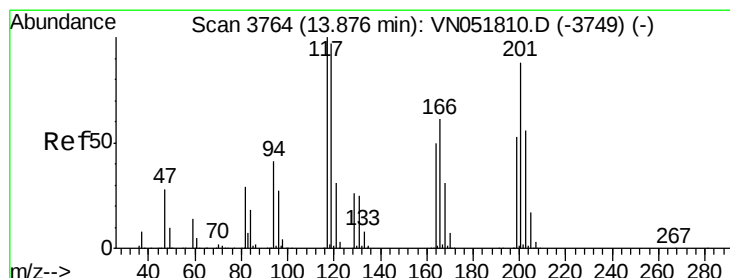
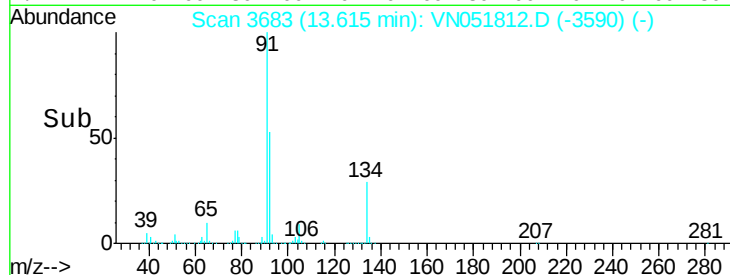
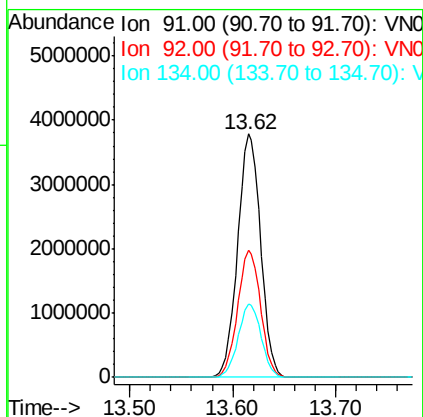
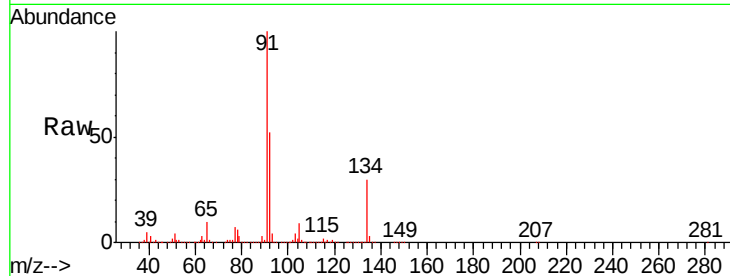
#89
n-Butylbenzene
Concen: 153.72 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 5852766
Ion Ratio Lower Upper
91 100
92 52.3 26.1 78.2
134 30.2 13.2 39.6

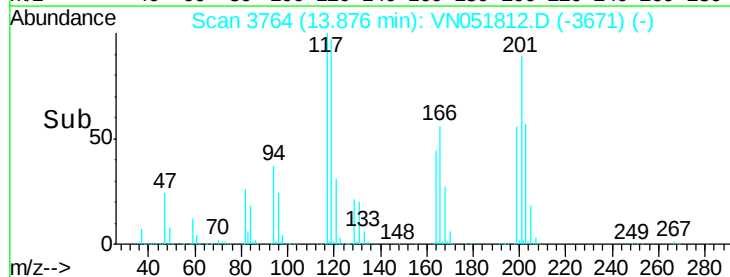
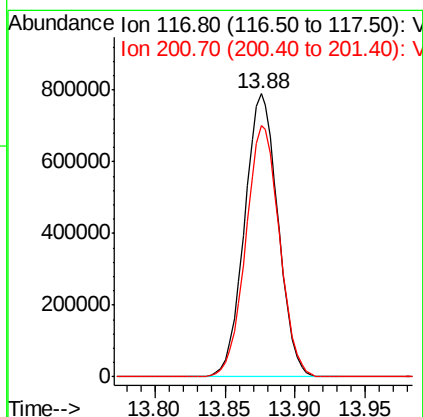
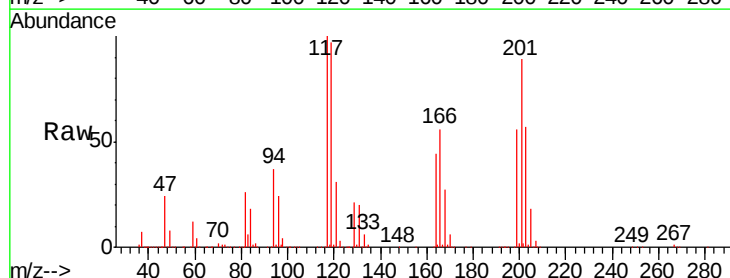
Manual Integrations
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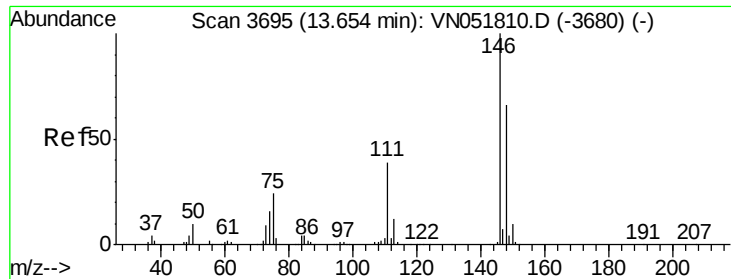
MMDadoda
10/15/2018 3:00:15 PM



#90
Hexachloroethane
Concen: 138.86 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN051812.D
Acq: 11 Oct 2018 12:46

Tgt Ion: 117 Resp: 1312249
Ion Ratio Lower Upper
117 100
201 89.4 46.0 137.8





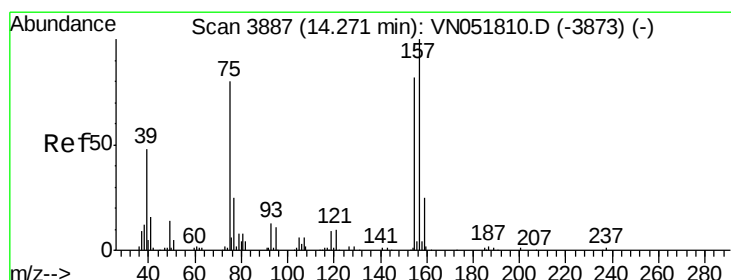
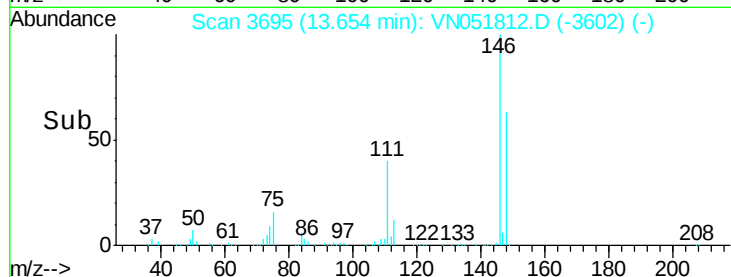
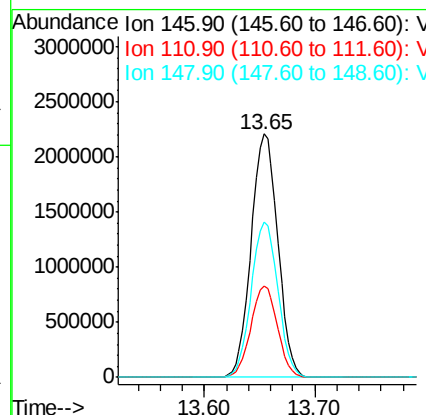
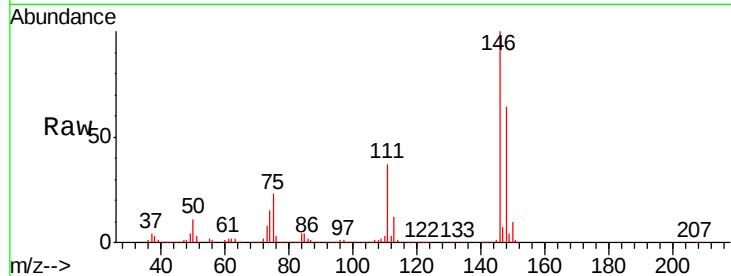
#91
 1,2-Dichlorobenzene
 Concen: 150.35 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tgt Ion: 146 Resp: 3698790
 Ion Ratio Lower Upper
 146 100
 111 37.3 19.8 59.3
 148 64.0 32.3 96.8

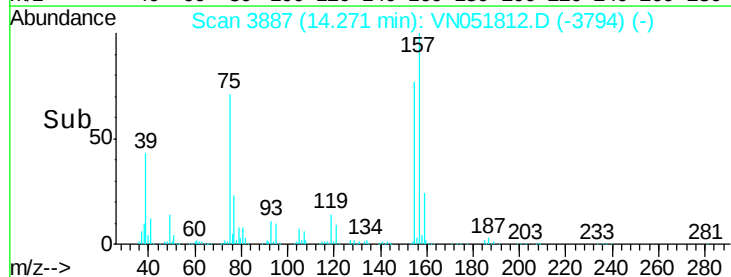
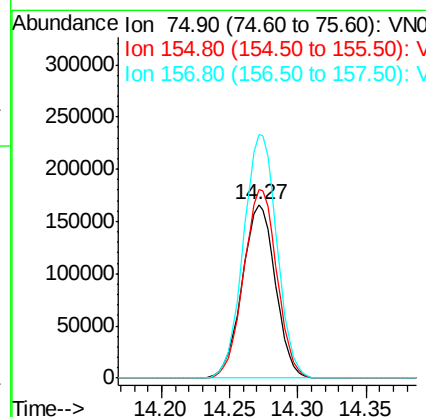
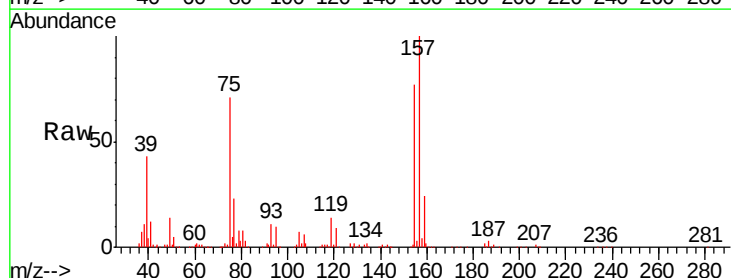
Manual Integrations
 APPROVED

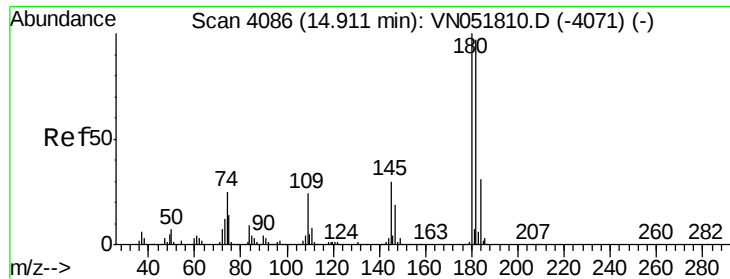
MMDadoda
 10/15/2018 3:00:15 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 144.17 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion: 75 Resp: 280245
 Ion Ratio Lower Upper
 75 100
 155 108.7 46.4 139.1
 157 141.4 60.7 182.0





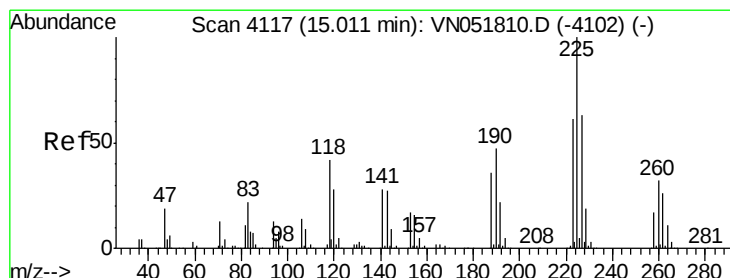
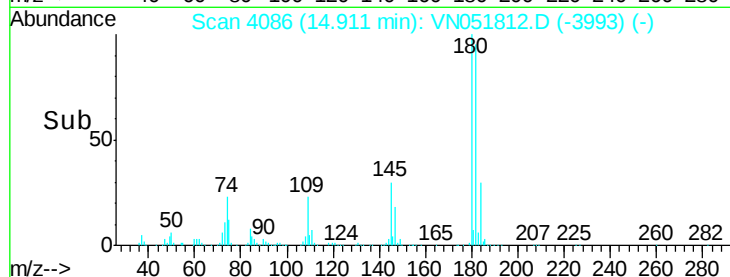
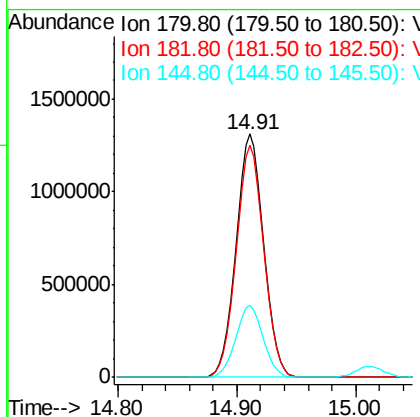
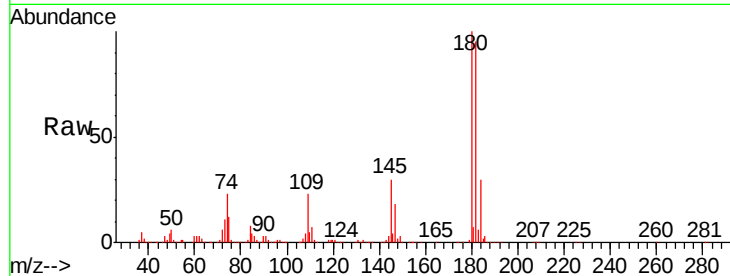
#93
 1,2,4-Trichlorobenzene
 Concen: 209.65 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:180 Resp: 2095213
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.2 144.6
 145 29.5 14.1 42.2

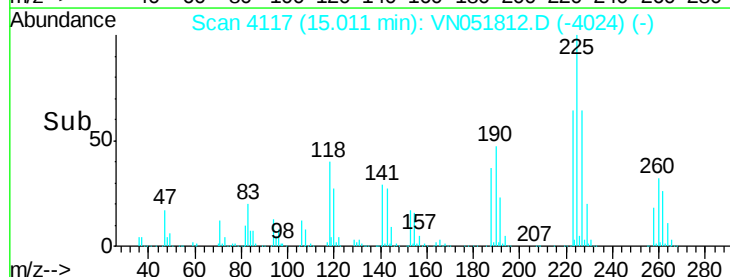
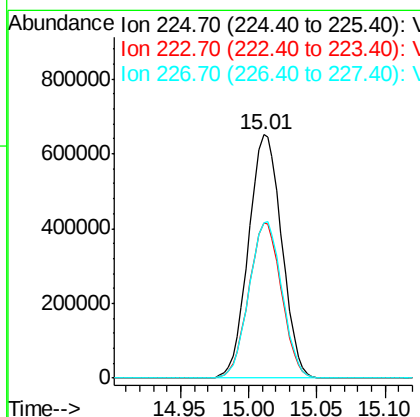
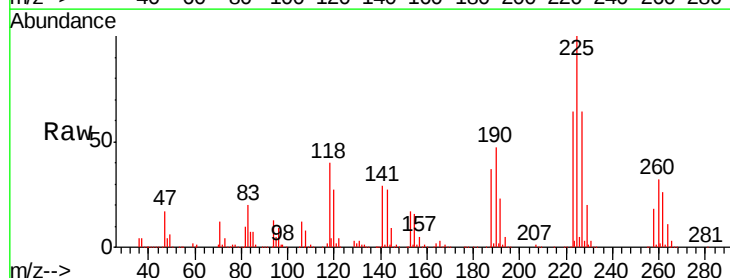
Manual Integrations
 APPROVED

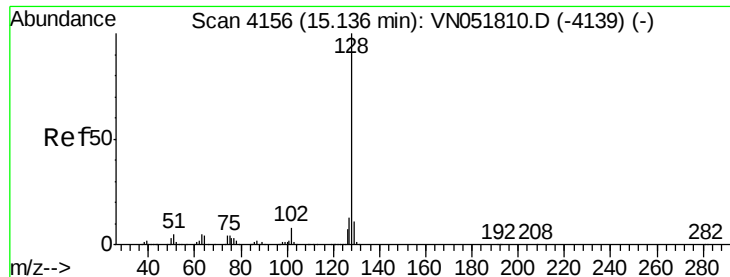
MMDadoda
 10/15/2018 3:00:15 PM



#94
 Hexachlorobutadiene
 Concen: 136.08 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051812.D
 Acq: 11 Oct 2018 12:46

Tgt Ion:225 Resp: 1099611
 Ion Ratio Lower Upper
 225 100
 223 62.8 31.3 93.8
 227 63.8 32.0 96.2





#95

Naphthalene

Concen: 213.56 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 4678934

Ion Ratio Lower Upper

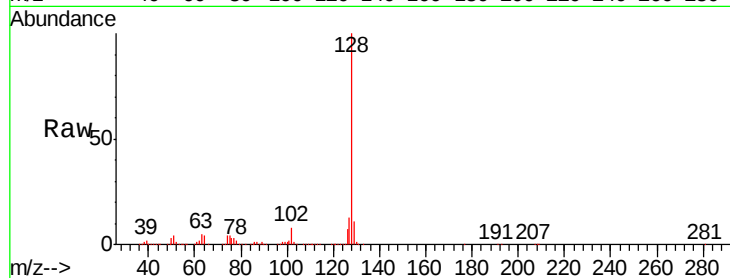
128 100

127 12.9 10.5 15.7

129 10.8 8.7 13.1

Manual Integrations
APPROVED

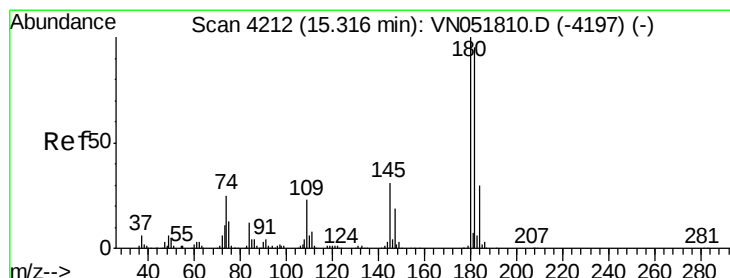
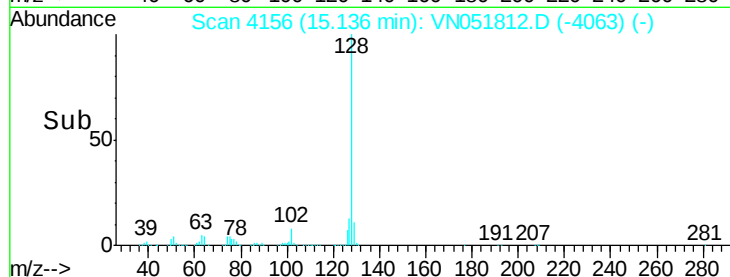
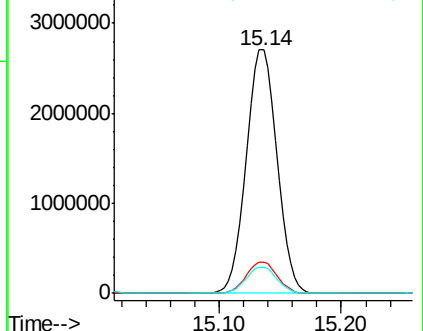
MMDadoda
10/15/2018 3:00:15 PM



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: 194.45 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN051812.D

Acq: 11 Oct 2018 12:46

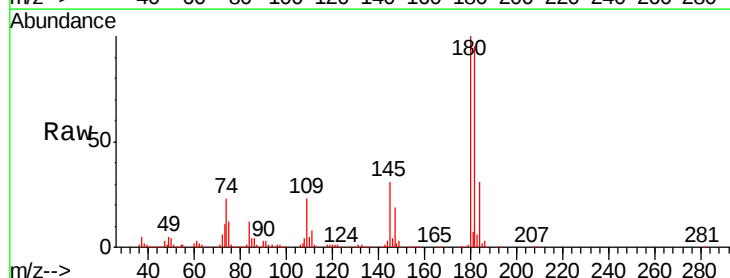
Tgt Ion:180 Resp: 2006318

Ion Ratio Lower Upper

180 100

182 95.7 48.0 144.2

145 30.9 15.2 45.6



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

